CHICO AQUATIC AND RECREATION FACILITY

CHICO AREA RECREATION & PARK DISTRICT

CHICO, CA

NOTE: THE ABOVE SITE RENDERING IS PROVIDED FOR DESIGN INTENT ONLY. FINAL LAYOUT AND DESIGN MAY VERY FROM RENDERING.

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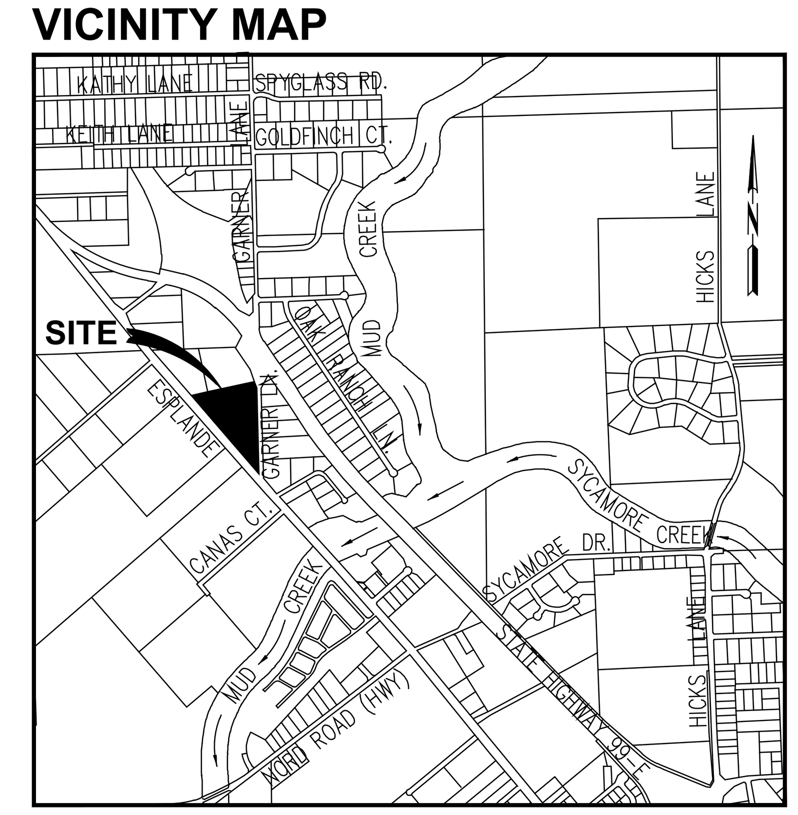

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ARCHITECT
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PH: (303) 455-1366
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NAME REGISTRATION #00000 DATE
MY REGISTRATION DATE IS:
SHEETS COVERED BY THIS SEAL:

CIVIL ENGINEER
ROLLS ANDERSON & ROLLS
115 YELLOWSTONE DRIVE
CHICO, CA 95973
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ALTERNATES

SEE SPEC 01 23 00 - ALTERNATES

1) SHADE STRUCTURES MANUFACTURER
2) FUNCTIONING EV BOLLARDS
3) SPLASHTACULAR FLY TIME SLIDE
4) AQUACLIMB AQUA ZIPN
5) REDUCED FLOW - PLAY STRUCTURE
6) LIGHTING VE PACKAGE
7) BATHHOUSE WALL TILE
8) CMU BLOCK WALL COATING
9) RELOCATE MECHANICAL BUILDING
10) USE EXISTING WELL FOR IRRIGATION (REQUIRES ALT #09)

LANDSCAPE ARCHITECT
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JAN 24, 2025

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COVER SHEET

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GN000

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CITY ZONE COMPLIANCE

A. THE SUBJECT SITE IS DESIGNATED COMMERCIAL MIXED USE (CMU) ON THE GENERAL PLAN LAND USE DIAGRAM AND ZONED CC (COMMUNITY COMMERCIAL) WITH -AOD (AIRPORT OVERFLIGHT ZONE D) OVERLAY.

B. THE DESCRIBED AQUATICS AND RECREATION CENTER IS CONSIDERED A "COMMUNITY CENTER/PAVILION" LAND USE, WHICH REQUIRES USE PERMIT AUTHORIZATION PURSUANT TO CMC 19.44.020, TABLE 4-6.

C. THE POTENTIAL ENVIRONMENTAL IMPACTS ASSOCIATED WITH THE PROPOSED AQUATIC CENTER ARE CONSIDERED TO BE WITHIN THE SCOPE OF THE CHICO 2030 GENERAL PLAN EIR'S IMPACT ANALYSIS FOR COMMERCIAL MIXED USE SITES.

D. ADDRESS:13301 GARNER LN, CHICO, CA 95973

E. APN: 006-400-029, -077 AND -080

CITY CODE COMPLIANCE
(DIVISION IV CHAPTER 19.44)

A. CC (COMMUNITY COMMERCIAL) DISTRICT. THE CC ZONING DISTRICT IS APPLIED TO AREAS APPROPRIATE FOR A WIDE RANGE OF RETAIL BUSINESSES. THIS DISTRICT ALSO ACCOMMODATES MIXED-USE DEVELOPMENTS WITH RESIDENTIAL USES ABOVE THE GROUND FLOOR. THE RESIDENTIAL DENSITY RANGE FOR MIXED USE DEVELOPMENT IN THE CC ZONING DISTRICT IS 6 TO A MAXIMUM OF 22 UNITS PER ACRE. THE CC ZONING DISTRICT IS PRIMARILY INTENDED TO IMPLEMENT THE COMMERCIAL MIXED USE LAND USE DESIGNATION OF THE GENERAL PLAN.

B. PROPOSED AQUATICS AND RED CENTER REQUIRES USE PERMIT AUTHORIZATION PURSUANT TO CMC 19.44.020, TABLE 4-6. (SEE CHAPTER 19.24 USE PERMITS - HTTPS://TINYURL.COM/44TFHF6Z)

C. MIN LOT SIZE: 6,000 SF INTERIOR LOT / 7,000 SF CORNER LOT

D. MIN WIDTH AT FRONT SETBACK LINE: N/A

E. RESIDENTIAL DENSITY: 6-22 UNITS PER GROSS ACRE. EXCLUSIVELY RESIDENTIAL PROJECTS SHALL COMPLY WITH THE RESIDENTIAL SETBACK REQUIREMENTS IN TABLE 4-3C AND THE LANDSCAPE STANDARDS IN CHAPTER 19.68 BASED UPON THE PROJECT DENSITY AND CORRESPONDING RESIDENTIAL ZONING DISTRICT.

F. LANDSCAPING: SEE SECTION 19.68.040 (LANDSCAPE INSTALLATION REQUIREMENTS - HTTPS://TINYURL.COM/465FBB9Y)

G. SETBACK REQUIRED:

G.A. FRONT: NONE REQUIRED, EXCEPT WHERE THE BLOCK IS PARTLY WITHIN AN R ZONING DISTRICT, THE SAME FRONT SETBACK SHALL BE REQUIRED AS IN THE R DISTRICT

G.B. SIDES/STREET SIDE: 10 FT. WHERE THE SIDE OF THE PARCEL ABUTS AN R DISTRICT; LESSER SETBACKS MAY BE APPROVED THROUGH THE DESIGN REVIEW PROCESS WHEN ABUTTING AN ALLEY. NO SETBACK REQUIRED ELSEWHERE.

G.C. REAR: 10 FT. WHERE THE REAR OF THE PARCEL ABUTS AN R DISTRICT; NONE ELSEWHERE.

G.D. ACCESSORY STRUCTURES: SEE SECTION 19.76.020 (ACCESSORY USES AND STRUCTURES - HTTPS://TINYURL.COM/469VR3FC)

H. SITE COVERAGE, MAXIMUM: 95% (THE ARCHITECTURAL REVIEW AND HISTORIC PRESERVATION BOARD MAY REQUIRE LESS COVERAGE AND MORE LANDSCAPED OPEN AREA TO PROVIDE VISUAL RELIEF OR CONTRAST, OR TO SCREEN INCOMPATIBLE OR OBTRUSIVE FEATURES)

I. HEIGHT LIMITS: 57 FT; LESSER HEIGHT MAY BE REQUIRED THROUGH THE DESIGN REVIEW PROCESS WHERE THE PARCEL ABUTS AN R DISTRICT.

SITE DESIGN AND ARCHITECTURAL REVIEW
(DIVISION IV CHAPTER 19.18)

A. CONFORMANCE TO PLANS

A.A. BUILDING PERMIT SHALL ONLY BE ISSUED IN COMPLIANCE WITH THE DRAWINGS AND PLANS THAT HAVE BEEN APPROVED.

A.B. ALL WORK PERFORMED UNDER A BUILDING PERMIT FOR WHICH DRAWINGS AND PLANS HAVE BEEN APPROVED SHALL CONFORM TO THE APPROVED DRAWINGS AND PLANS

A.C. ANY MODIFICATIONS TO OR DEVIATIONS FROM THE DRAWINGS AND PLANS APPROVED UNDER THIS CHAPTER SHALL BE APPROVED BY THE ARHPB, OR THE DIRECTOR IF THE ORIGINAL APPROVAL WAS MADE BY THE DIRECTOR, OR IF THE MODIFICATION IS DETERMINED TO BE MINOR BY THE DIRECTOR IN COMPLIANCE WITH SECTION 19.30.060 (CHANGES TO AN APPROVED PROJECT)

A.D. UPON COMPLETION OF THE WORK, THE SITE AND LANDSCAPING SHALL BE MAINTAINED IN COMPLIANCE WITH THE APPROVED PLANS AND ANY CONDITIONS OF APPROVAL.

A.E. IF A BUILDING PERMIT HAS NOT BEEN APPLIED FOR AND ISSUED WITHIN THREE YEARS OF SITE DESIGN AND ARCHITECTURAL REVIEW APPROVAL, THE APPROVAL SHALL EXPIRE AND BECOME VOID. EXTENSIONS MAY BE APPROVED BY THE ZONING ADMINISTRATOR, IN COMPLIANCE WITH CHAPTER 19.30. (PERMIT IMPLEMENTATION, TIME LIMITS, EXTENSIONS.

BIOLOGICAL RESOURCE ASSESSMENT

A. ENDANGERED, THREATENED AND RARE PLANTS

A.1. THERE ARE NO SPECIAL-STATUS BOTANICAL SPECIES PRESENT WITHIN THE BSA AND NO SUITABLE HABITAT FOR SPECIAL STATUS BOTANICAL SPECIES WAS IDENTIFIED WITHIN THE BSA; THEREFORE, THERE WILL BE NO IMPACTS TO BOTANICAL SPECIES AND NO AVOIDANCE AND MINIMIZATION MEASURES ARE PROPOSED.

B. ENDANGERED, THREATENED, AND SPECIAL-STATUS WILDLIFE

B.1. BURROWING OWL;

B.1.1. CONSTRUCTION ACTIVITIES SHOULD OCCUR OUTSIDE OF THE WESTERN BURROWING OWL NESTING SEASON (FEBRUARY 1 – AUGUST 31). IF CONSTRUCTION CANNOT BE CONDUCTED OUTSIDE OF THE NESTING SEASON, THEN THE FOLLOWING AVOIDANCE AND MINIMIZATION MEASURES SHALL BE IMPLEMENTED.

B.1.1.1. FOR CONSTRUCTION OCCURRING DURING THE BREEDING SEASON (FEBRUARY 1 –AUGUST 31), PRIOR TO ANY GROUND DISTURBING ACTIVITIES WITHIN THE SITE, A PRE-CONSTRUCTION SURVEY FOR WESTERN BURROWING OWLS SHALL BE CONDUCTED BY A QUALIFIED BIOLOGIST WITHIN 14 DAYS OF GROUND DISTURBING ACTIVITIES PER THE RECOMMENDATIONS DESCRIBED IN THE CDFW STAFF REPORT ON BURROWING OWL MITIGATION.

B.1.1.2. IF THERE IS A LAPSE BETWEEN PROJECT ACTIVITIES, AND ADDITIONAL SURVEY SHOULD BE CONDUCTED WITHIN 24 HOURS PRIOR TO GROUND DISTURBANCE.

B.1.1.3. IF AN ACTIVE BURROWING OWL NEST IS OBSERVED WITHIN 500 FEET OF THE PROJECT FOOTPRINT.

B.1.1.4. THEN A 500-FOOT BUFFER SHOULD BE ESTABLISHED AND CDFW CONTACTED FOR FURTHER CONSULTATION.

B.2. MIGRATORY BIRDS AND RAPTORS

B.2.1. TO AVOID IMPACTS TO AVIAN SPECIES PROTECTED UNDER THE MBTA AND THE CFGC THE FOLLOWING ARE RECOMMENDED AVOIDANCE AND MINIMIZATION MEASURES FOR MIGRATORY BIRDS AND RAPTOR

B.2.1.1. PROJECT ACTIVITIES INCLUDING SITE GRUBBING AND VEGETATION REMOVAL SHALL BE INITIATED OUTSIDE OF THE BIRD NESTING SEASON (FEBRUARY 1 – AUGUST 31)

B.2.1.2. IF PROJECT ACTIVITIES CANNOT BE INITIATED OUTSIDE OF THE BIRD NESTING SEASON, THEN THE FOLLOWING WILL OCCUR:

B.2.1.2.1. A QUALIFIED BIOLOGIST WILL CONDUCT A PRE-CONSTRUCTION SURVEY WITHIN THE BSA AND WITHIN 250 FEET OF THE BSA, WHERE ACCESSIBLE, WITHIN SEVEN (7) DAYS PRIOR TO THE INITIATION OF PROJECT ACTIVITIES.

B.2.1.2.2. IF AN ACTIVE [I.E., CONTAINING EGG(S) OR YOUNG] NEST IS OBSERVED WITHIN THE BSA OR IN AN AREA ADJACENT TO THE BSA WHERE IMPACTS COULD OCCUR, A SPECIES-SPECIFIC PROTECTION BUFFER WILL BE ESTABLISHED. THE SPECIES PROTECTION BUFFER WILL BE DEFINED BY A QUALIFIED BIOLOGIST BASED ON THE SPECIES, NEST TYPE, AND TOLERANCE TO DISTURBANCE. PROJECT ACTIVITIES SHALL BE PROHIBITED WITHIN THE BUFFER ZONES UNTIL THE YOUNG HAVE FLEDGED OR THE NEST FAILS, AND A QUALIFIED BIOLOGIST HAS DETERMINED THE NEST TO LONGER BE ACTIVE. NESTS SHALL BE MONITORED BY A QUALIFIED BIOLOGIST ONCE PER WEEK AND A REPORT SUBMITTED TO THE CEQA LEAD AGENCY WEEKLY.

B.3. PALLID BAT AND WESTERN RED BAT

B.3.1. TO AVOID IMPACTS TO BATS, THE FOLLOWING ARE RECOMMENDED AVOIDANCE AND MINIMIZATION MEASURES:

B.3.1.1. MATURE TREES SHOULD BE REMOVED AND/OR FALLEN BETWEEN SEPTEMBER 16 – MARCH 15 OUTSIDE OF THE BAT MATERNITY SEASON

B.3.1.2. TREES SHOULD BE REMOVED AT DUSK ABOVE 44°F TO MINIMIZE IMPACTS TO ROOSTING BATS

B.3.1.3. IF TREE REMOVAL CANNOT BE PERFORMED OUTSIDE OF THE MATERNITY SEASON, A QUALIFIED BIOLOGIST SHALL CONDUCT A PRECONSTRUCTION SURVEY OF SUITABLE ROOSTING HABITAT WITHIN 7 DAYS PRIOR TO CONSTRUCTION ACTIVITIES.

TREE PRESERVATION REGULATIONS
(DIVISION IV CHAPTER 16.66)

A. THIS CHAPTER APPLIES TO (A) ALL UNDEVELOPED PRIVATE PROPERTY WITHIN THE CITY WHICH IS 10,000 SQUARE FEET OR GREATER IN SIZE AND (B) ALL PROPERTY THAT REQUIRES DISCRETIONARY APPROVAL OF A LAND USE ENTITLEMENT.

B. TREE DEF: ANY LIVE WOODY PLANT HAVING A SINGLE PERENNIAL STEM OF 18 INCHES OR MORE IN DIAMETER, OR MULTISTEMMED PERENNIAL PLANT GREATER THAN 15 FEET IN HEIGHT HAVING AN AGGREGATE CIRCUMFERENCE OF 40 INCHES OR MORE, MEASURED AT FOUR FEET SIX INCHES ABOVE ADJACENT GROUND;

C. ANY TREE THAT MEETS THE FOLLOWING CRITERIA

C.A. 12-INCH DBH OR GREATER
- C.A.1. ALL OAKS (QUERCUS)
- C.A.2. SYCAMORES (PLATANUS RACEMOSA)
- C.A.3. OREGON ASH (FRAXINUS LATIFOLIA)
- C.A.4. BIG LEAF MAPLE (ACER MACROPHYLLUM)

C.B. 6-INCH DBH OR GREATER
- C.B.1. BLUE OAK (Q. DOUGLASSII)
- C.B.2. CANYON LIVE OAK (Q.CHRYSOLEPSIS)
- C.B.3. INTERIOR LIVE OAK (Q. WISLIZENII)
- C.B.4. CALIFORNIA BUCKEYE (AESCULUS CALIFORNICA)
- C.B.5. MADRONE (ARBUTUS MENZIESSII)
- C.B.6. TOYON (HETEROMELES ARBUTIFOLIA)
- C.B.7. REDBUD (CERCIS OCCIDENTALIS)
- C.B.8. CALIFORNIA BAY (UMBELLULARIA CALIFORNICA)
- C.B.9. PACIFIC DOGWOOD (CORNUS NUTTALLII)

D. "TREE" OR "TREES" DOES NOT INCLUDE THE FOLLOWING TREE SPECIES: AILANTHUS, CHINESE TALLOW, FREEMONT COTTONWOOD OR POPLAR, PRIVET, BOX ELDER, SILVER WATTLE, BLACK ACACIA, ENGLISH HAWTHORN, RUSSIAN OLIVE, OLIVE, RED GUM, TASMANIAN BLUE GUM, EDIBLE FIG, ENGLISH HOLLY, CHERRY PLUM, BLACK LOCUST, PERUVIAN PEPPERTREE, BRAZILIAN PEPPERTREE, WESTERN CATALPA, CHINESE ELM OR WINGED ELM; OR THE FOLLOWING FRUIT AND NUT TREES: ALMONDS, APPLES, APRICOTS, AVOCADOS, CHERRIES, CHESTNUTS, MANDARINS, NECTARINES, OLIVES, ORANGES, PEACHES, PEARS, PECANS, PERSIMMONS, PISTACHIOS, PLUMS OR ENGLISH WALNUTS.

E. TREE REMOVAL PERMIT REQUIRED. NO PERSON SHALL REMOVE, CAUSE TO BE REMOVED, OR EFFECTIVELY REMOVE ANY TREE FROM ANY PROPERTY WHICH IS SUBJECT TO THIS CHAPTER WITHOUT OBTAINING A PERMIT FROM THE DIRECTOR.

F. TREE REMOVAL PERMIT APPLICATION. ANY PERSON SUBMITTING A TREE REMOVAL APPLICATION IN CONJUNCTION WITH AN APPLICATION FOR ANY DEVELOPMENT SHALL PROVIDE TO THE DIRECTOR THE PLAN SPECIFYING THE PRECISE LOCATION, SIZE, SPECIES, AND DRIP-LINE OF ALL EXISTING TREES ON OR ADJACENT TO THE PROPERTY. THE PLAN SHALL ALSO SHOW EXISTING AND PROPOSED GRADES AND THE LOCATION OF PROPOSED AND EXISTING STRUCTURES. THE PLAN SUBMITTED SHALL BE THE SAME PLAN APPROVED BY THE BODY HAVING FINAL AUTHORITY OVER THE DEVELOPMENT APPLICATION., THE APPLICATION FOR A PERMIT SHALL BE MADE ON FORMS PROVIDED BY THE PUBLIC WORKS DEPARTMENT AND SHALL INCLUDE THE FOLLOWING:

F.A. A DRAWING SHOWING ALL EXISTING TREES SIX INCHES OR LARGER THAT MAY BE AFFECTED BY TREE REMOVAL, AND THE LOCATION, TYPE, AND SIZE OF ALL TREE(S) PROPOSED TO BE REMOVED;

F.B. A BRIEF STATEMENT OF THE REASON FOR REMOVAL;

F.C. IF THE TREE(S) ARE PROPOSED FOR REMOVAL BECAUSE OF A FAILING CONDITION, AN ARBORIST'S DETERMINATION OF THE STATE OF HEALTH OF THE TREE(S) MAY BE REQUIRED;

F.D. WRITTEN CONSENT OF THE OWNER OF RECORD OF THE LAND ON WHICH THE TREE(S) ARE PROPOSED TO BE REMOVED;

F.E. A TREE REMOVAL PERMIT FEE IN AMOUNT ESTABLISHED BY RESOLUTION BY THE CITY COUNCIL TO COVER THE COST OF PERMIT ADMINISTRATION. AN ADDITIONAL DEPOSIT MAY BE REQUIRED BY THE DIRECTOR TO RETAIN AN ARBORIST TO ASSIST THE CITY IN ASSESSING THE CONDITION OF THE TREE(S); AND

F.F. OTHER PERTINENT INFORMATION AS REQUIRED BY THE DIRECTOR.

G. TREE REPLACEMENT

G.A. ON-SITE. FOR EVERY SIX INCHES IN DBH REMOVED, A NEW 15 GALLON TREE SHALL BE PLANTED ON-SITE. REPLACEMENT TREES SHALL BE OF SIMILAR SPECIES, UNLESS OTHERWISE APPROVED BY THE URBAN FOREST MANAGER, AND SHALL BE PLACED IN AREAS DEDICATED FOR TREE PLANTINGS. NEW PLANTINGS' SURVIVAL SHALL BE ENSURED FOR THREE YEARS AFTER THE DATE OF PLANTING AND SHALL BE VERIFIED BY THE APPLICANT UPON REQUEST BY THE DIRECTOR. IF ANY REPLACEMENT TREES DIE OR FAIL WITHIN THE FIRST THREE YEARS OF THEIR PLANTING, THEN THE APPLICANT SHALL PAY AN IN-LIEU FEE AS ESTABLISHED BY A FEE SCHEDULE ADOPTED BY THE CITY COUNCIL.

G.B. OFF-SITE. IF IT IS NOT FEASIBLE OR DESIRABLE TO PLANT REPLACEMENT TREES ON-SITE, PAYMENT OF AN IN-LIEU FEE AS ESTABLISHED BY A FEE SCHEDULE ADOPTED BY THE CITY COUNCIL SHALL BE REQUIRED

685" DBH TO BE REMOVED AND MITIGATED (685/6) = 115 NEW 15 GALLON MIN. TREES REQUIRED

H. PROTECTION OF TREES DURING CONSTRUCTION

H.A. ALL APPLICANTS FOR DEMOLITION PERMITS, GRADING PERMITS, BUILDING PERMITS, USE PERMITS, PLANNED DEVELOPMENT PERMITS, OR PARCEL OR TENTATIVE SUBDIVISION MAPS, ON PROPERTY CONTAINING ONE OR MORE TREES SHALL PREPARE A TREE PROTECTION PLAN PURSUANT TO SECTION 16.66.110. THE TREE PROTECTION PLAN SHALL COMPLY WITH THE CITY'S "BEST PRACTICES TECHNICAL MANUAL: TREE PRESERVATION MEASURES," AS AMENDED, AND THE APPROVED PARCEL OR TENTATIVE SUBDIVISION MAP, IF APPLICABLE.

I. PROTECTION PLAN REQUIRED PRIOR TO ISSUANCE OF PERMIT

I.A. A PLAN TO PROTECT TREES AS DESCRIBED IN SECTION 16.66.100 OF THIS CHAPTER SHALL BE SUBMITTED TO THE DIRECTOR PRIOR TO THE ISSUANCE OF DEMOLITION PERMITS, GRADING PERMITS, BUILDING PERMITS, USE PERMITS, PLANNED DEVELOPMENT PERMITS, OR PARCEL OR TENTATIVE SUBDIVISION MAPS. THE PLAN SHALL ENSURE THAT THE TREE(S), INCLUDING THE ROOT SYSTEM, WILL BE ADEQUATELY PROTECTED FROM POTENTIAL HARM DURING DEMOLITION, GRADING, AND CONSTRUCTION THAT COULD CAUSE DAMAGE TO THE TREE(S). SUCH HARM MAY INCLUDE EXCAVATION AND TRENCHING, CONSTRUCTION AND CHEMICAL MATERIALS STORAGE, STORM WATER RUNOFF AND EROSION, AND SOIL COMPACTION. THE PLAN SHALL BE SUBMITTED BY THE APPLICANT AND APPROVED BY THE DIRECTOR. THE DIRECTOR MAY REFER THE PLAN TO A CITY-SELECTED ARBORIST FOR REVIEW AND RECOMMENDATION. THE COST OF THIS REVIEW SHALL BE BORNE BY THE APPLICANT REQUESTING A PERMIT.

J. VIOLATION—PENALTY

J.A. ANY PERSON WHO UNLAWFULLY REMOVES, DESTROYS, OR CAUSES MAJOR DAMAGE TO ANY TREE SHALL PAY A CIVIL PENALTY EQUAL TO TWICE THE AMOUNT OF THE APPRAISED VALUE OF EACH TREE OR $5,000.00 PER TREE, WHICHEVER IS GREATER. FOR PURPOSES OF CALCULATING THE PENALTIES FOR EACH TREE, THE CURRENT EDITION OF THE "GUIDE FOR ESTABLISHING VALUES OF TREES AND OTHER PLANTS," AS AMENDED, BY THE COUNCIL OF TREE AND LANDSCAPE APPRAISERS SHALL BE PRESUMED TO PROVIDE THE APPROPRIATE BASIS FOR DETERMINING PENALTIES.

J.A.1. ANY PERSON WHO UNLAWFULLY CAUSES MINIMAL DAMAGE TO ANY TREE SHALL PAY A CIVIL PENALTY OF $1,000.00 FOR EACH TREE DAMAGED

J.A.2. IF ANY PERSON COMMITS THREE MINIMAL DAMAGE VIOLATIONS WITHIN A 24-MONTH PERIOD, ALL SUBSEQUENT MINIMAL DAMAGE VIOLATIONS WITHIN SUCH 24-MONTH PERIOD SHALL BE PENALIZED AS MAJOR DAMAGE VIOLATIONS

J.A.3. ADDITION TO THE ABOVEMENTIONED PENALTIES, ANY PERSON VIOLATING ANY PORTION OF THIS CHAPTER THAT RESULTS IN THE LOSS OF A TREE, SHALL BE REQUIRED TO REPLACE SAID TREE WITH A NEW TREE AND/OR ADDITIONAL PLANTINGS, OF THE SAME SPECIES, OR OTHER SPECIES AS MAY BE DETERMINED BY THE DIRECTOR. THE DIRECTOR SHALL DETERMINE THE SIZE AND LOCATION OF REPLACEMENT TREE(S). THE DIRECTOR MAY REFER TO THE RECOMMENDATION OF A CITY-SELECTED ARBORIST.

ABBREVIATIONS
(ALL MIGHT NOT BE USED)

A		**G**		**R**	
ABRV	ABBREVIATION	GA	GAUGE	R	RADIUS
ALN	ALIGN	GEN	GENERAL	REC	RECOMMENDATION
ALW	ALLOWANCE			RE	REFERENCE
APPROX	APPROXIMATE	**H**		REINF	REINFORCE
ARCH	ARCHITECT	HORIZ	HORIZONTAL	R-EJ	REINFORCED EXPANSION JT
AVE	AVERAGE	HP	HIGH POINT	REQD	REQUIRED
		HT	HEIGHT	REV	REVISION
B				ROW	RIGHT-OF-WAY
B&B	BALLED AND BURLAPPED	**I**			
BC	BOTTOM OF CURB	ID	INSIDE DIAMETER	**S**	
BLDG	BUILDING	IE	INVERT ELEVATION	S	SOUTH
BOC	BACK OF CURB	IN	INCHES	SAN	SANITARY
BOF	BOTTOM OF FOOTING	INCL	INCLUDED	SF	SQUARE FEET
BW	BOTTOM OF WALL (@ FS)			SHT	SHEET
BWS	BOTH WAYS	**J**		SIM	SIMILAR
		JT	JOINT	SPECS	SPECIFICATIONS
C				ST	STORM SEWER
CAL	CALIPER	**K**		SY	SQUARE YARD
CF	CUBIC FEET	NONE		STA	STATION
CIP	CAST IN PLACE			STD	STANDARD
CL	CENTER LINE	**L**		SYM	SYMMETRICAL
CLR	CLEAR	LF	LINEAR FEET	SQ	SQUARE
CO	CLEANOUT	LP	LOW POINT		
CONT	CONTINUOUS			**T**	
CY	CUBIC YARD	**M**		T&B	TOP AND BOTTOM
		MAX	MAXIMUM	TBD	TO BE DETERMINED
D		MANU	MANUFACTURER	TC	TOP OF CURB
DBH	DIA AT BREAST HT	MFG	MANUFACTURER	TD	TOP OF DRAIN
DEMO	DEMOLISH	MH	MANHOLE	TH	THICK
DIA	DIAMETER	MIN	MINIMUM	TOF	TOP OF FOOTING
DIM	DIMENSION			TOPO	TOPOGRAPHY
DTL	DETAIL	**N**		TW	TOP OF WALL
DWG	DRAWING	N	NORTH	TYP	TYPICAL
		NIC	NOT IN CONTRACT		
E		NO	NUMBER	**U**	
E	EAST	NOM	NOMINAL	UNO	UNLESS NOTED OTHERWISE
EA	EACH	NTS	NOT TO SCALE		
EJ	EXPANSION JOINT			**V**	
EL	ELEVATION	**O**		VAR	VARIES
ENG	ENGINEER	OC	ON CENTER	VOL	VOLUME
EQ	EQUAL	OD	OUTSIDE DIAMETER		
EST	ESTIMATE			**W**	
EW	EACH WAY	**P**		W/	WITH
EX	EXISTING	PC	POINT OF CURVE	W/O	WITHOUT
EXP	EXPANSION	PE	POLYETHYLENE	WT	WEIGHT
		PI	POINT OF INTERSECTION	WWM	WELDED WIRE MESH
F		PL	PROPERTY LINE		
FES	FLARED END SECTION	PT	POINT	**X**	
FFE	FINISHED FLOOR ELEV	PVC	POLY VINYL CHLORIDE	NONE	
FG	FINISHED GRADE				
FL	FLOW LINE	**Q**		**Y**	
FOC	FACE OF CURB	QTY	QUANTITY	YD	YARD
FOW	FACE OF WALL				
FS	FINISHED SURFACE			**Z**	
FT	FEET			NONE	
FTG	FOOTING				

LINE SYMBOL LEGEND

	PROPERTY LINE
	EASEMENT
	SETBACK
##	EXISTING INDEX CONTOUR
##	EXISTING CONTOUR
##	PROPOSED INDEX CONTOUR
##	PROPOSED CONTOUR
COM	COMMUNICATIONS
OE	OVERHEAD ELECTRIC
UE	UNDERGROUND ELECTRIC
F/O	FIBER OPTIC
S	SANITARY SEWER
ST	STORM SEWER
UD	UNDERDRAIN
T	TELEPHONE
W	WATER
SF	SILT FENCE
o o o o o	FENCE, TYPE 1
x x x x x	FENCE, TYPE 2
[] [] [] [] []	FENCE, TYPE 3

DRAWING SYMBOLS
(NOT ALL ARE USED)

SECTION — XX / L-XX — SHEET #

ELEVATION — XX / L-XX — ELEVATION & SHEET #

MULTILEADER STD. — TEXT MULTILEADER

GRADING MULTILEADER — LOCATION ABBV. — XX ###.# — ELEVATION #

DETAIL MULTILEADER — DETAIL NAME — ## / L-## — DETAIL # — SHEET #

CONTOUR ELEVATION — ELEVATION # — ###

CENTER POINTS

SLOPE — #.#% — DIRECTION OF LOWER ELV

COORDINATE TAGS — ## N:#### E:####

ELEVATION — XXXX.XX / X/XXXX — ELEVATION & SHEET #

PLANT TAG — QTY — ## / XX — ABBREVIATION

KEYNOTE — #

DIMENSION — #'-##"

RADIUS DIMENSION — R## — RADIUS

ANGLE DIMENSION — ##° — ANGLE

REVISION TRIANGLE — ISSUE NO. — ##

XX / L-XX

A

SHEET # TITLE N.T.S

SCALE: 1"=10'
0' 5' 10' 20'

SHEET NUMBERING
(NOT ALL ARE USED)

DISCIPLINE DESIGNATOR — SHEET TYPE DESIGNATOR — USER (IF NEEDED)

L S 5 0 1 #

WORK TYPE DESIGNATOR — SHEET SEQUENCE PAGE NUMBER

DISCIPLINE DESIGNATORS	
G	GENERAL
H	HAZARDOUS MATERIALS
C	CIVIL
L	LANDSCAPE
S	STRUCTURAL
A	ARCHITECTURAL
I	INTERIORS
Q	EQUIPMENT
F	FIRE PROTECTION
P	PLUMBING
M	MECHANICAL
E	ELECTRICAL
T	TELECOMMUNICATIONS
X	OTHER DISCIPLINES
Z	CONTRACTOR/SHOP DWG

WORK TYPE DESIGNATIONS	
S	LAYOUT
I	IRRIGATION
P	PLANTING
L	LIGHTING
G	GRADING
D	DEMOLITION
R	RELOCATION
F	FURNISHING
N	NOTES/INFORMATION

SHEET TYPE DESIGNATIONS	
0	GENERAL (NOTES, LEGENDS, ETC.)
1	PLANS (HORIZONTAL VIEWS)
2	ELEVATIONS (VERTICAL VIEWS)
3	SECTIONS (SECTIONAL VIEWS)
4	LARGE-SCALE VIEWS (ENLARGEMENTS)
5	DETAILS
6	SCHEDULES AND DIAGRAMS
7	USER-DEFINED
8	USER-DEFINED
9	3D REPRESENTATION (ISO, PHOTOS, ETC)

CONFLUENCE
LANDSCAPE ARCHITECT
CONFLUENCE
307 N Michigan Ave, Suite 601
Chicago, IL 60601
312.663.5494
www.thinkconfluence.com

AQUATIC DESIGN CONSULTANT:
WATER TECHNOLOGY INC.
100 Park Ave.,
Beaver Dam, WI 53916
920.887.7375

ARCHITECT:
BRS ARCHITECTURE
990 S Broadway #222,
Denver, CO 80209
303.455.1366

CIVIL ENGINEER:
ROLLS ANDERSON & ROLLS
115 Yellowstone Dr,
Chico, CA 95973
530.895.1422

PERMIT REVIEW & BID SET ONLY
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ISSUE & REVISION Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

NOTE & LEGENDS

GN001

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IF LINE SHOWN ABOVE IS NOT EXACTLY ONE INCH LONG, ATTHIS SHEET IS NOT FULL SIZE

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, FOR REFERENCE

File Location: \\corp.thinkconfluence.com\data\Chicago\Projects\2022\23030_Chico Aquatic and Recreation Facility\23030_WORKING\AUTOCAD\SHEETS\GN002 NOTE & LEGENDS / SAVE DATE: 12/31/2024 1:55 PM BY: sbillinger / PLOT DATE: 2/16/2025 2:57 PM BY: Devon Dillinger

CITY LANDSCAPING COMPLIANCE

(DIVISION IV CHAPTER 19.68)

A. A CONCEPTUAL LANDSCAPE PLAN SHALL BE SUBMITTED AS PART OF ANY APPLICATION FOR A LAND USE ENTITLEMENT FOR NEW DEVELOPMENT OR MAJOR REDEVELOPMENT REQUIRING NEW LANDSCAPING.

B. FOLLOWING APPROVAL OF THE LAND USE ENTITLEMENT, A FINAL LANDSCAPE PACKAGE SHALL BE SUBMITTED AS PART OF THE APPLICATION FOR A BUILDING PERMIT. LANDSCAPE PLANS SHALL BE PREPARED ONLY BY PERSONS AUTHORIZED BY THE STATE OF CALIFORNIA TO PREPARE SUCH PLANS.

C. CONCEPTUAL LANDSCAPE PLANS AND FINAL LANDSCAPE PACKAGES SHALL CONTAIN ALL INFORMATION SPECIFIED IN THE INSTRUCTIONS FOR PREPARING LANDSCAPE PLANS, PROVIDED BY THE DEPARTMENT.

D. THE BOARD OR THE DIRECTOR, AS APPROPRIATE, SHALL REVIEW EACH CONCEPTUAL LANDSCAPE PLAN AND FINAL LANDSCAPE PACKAGE TO VERIFY ITS COMPLIANCE WITH THE PROVISIONS OF THIS CHAPTER. THE BOARD OR DIRECTOR MAY APPROVE THE SUBMITTAL IN COMPLIANCE WITH THIS CHAPTER, OR MAY DISAPPROVE OR REQUIRE CHANGES TO A SUBMITTAL THAT IS NOT IN COMPLIANCE.

E. GENERAL REQUIREMENTS. LANDSCAPING SHALL BE PROVIDED AS FOLLOWS:

E.1. SETBACKS. IN GENERAL, THE SETBACK AREAS REQUIRED BY THESE REGULATIONS SHALL BE LANDSCAPED, EXCEPT WHERE A REQUIRED SETBACK IS OCCUPIED BY A SIDEWALK, DRIVEWAY OR ACCESS EASEMENT OR WHERE A REQUIRED SETBACK IS SCREENED FROM PUBLIC VIEW AND IT IS DETERMINED BY THE DIRECTOR THAT LANDSCAPING IS NOT NECESSARY TO FULFILL THE PURPOSES OF THIS CHAPTER.

E.2. UNUSED AREAS. ALL AREAS OF A BUILDING SITE NOT INTENDED FOR A SPECIFIC USE OR PURPOSE, INCLUDING PAD SITES IN SHOPPING CENTERS HELD FOR FUTURE DEVELOPMENT, SHALL BE LANDSCAPED (MAY BE HYDROSEEDED) UNLESS IT IS DETERMINED BY THE REVIEW AUTHORITY THAT LANDSCAPING IS NOT NECESSARY TO FULFILL THE PURPOSES OF THIS CHAPTER.

E.3. POOLS AND PATIOS. THE SURFACE AREA OF A PERMANENT SWIMMING POOL OR SPA OR UNCOVERED PATIO MAY BE INCLUDED TO MEET LANDSCAPED OPEN SPACE REQUIREMENTS.

E.4. PUBLIC RIGHT-OF-WAY. THE AREA BETWEEN THE CURB, OR CURB AND SIDEWALK IF CONTIGUOUS, AND THE PROPERTY LINE SHALL BE LANDSCAPED. THIS AREA SHALL NOT BE COUNTED IN THE OVERALL REQUIRED PERCENTAGE OF LANDSCAPING.

F. SPECIFIC ZONE LANDSCAPING REQUIREMENTS. PROPOSED DEVELOPMENT AND NEW LAND USES SHALL BE DESIGNED, CONSTRUCTED AND MAINTAINED WITH LANDSCAPED OPEN SPACE AREAS OF THE MINIMUM SIZE SHOWN IN TABLE 5-2, BASED ON THE ZONING DISTRICT APPLICABLE TO THE SITE. ADDITIONAL LANDSCAPING MAY BE REQUIRED BY THE ARCHITECTURAL REVIEW BOARD TO PROVIDE VISUAL RELIEF OR CONTRAST OR TO SCREEN INCOMPATIBLE OR OBTRUSIVE FEATURES:

F.1. MINIMUM % OF SITE AREA REQUIRED TO BE LANDSCAPED: 5%

G. LANDSCAPE STANDARDS:

G.1. GENERAL DESIGN STANDARDS. THE FOLLOWING FEATURES SHALL BE INCORPORATED INTO THE DESIGN OF THE PROPOSED LANDSCAPE AND SHOWN ON REQUIRED LANDSCAPE PLANS:

G.1.A. LANDSCAPING SHALL BE PLANNED AS AN INTEGRAL PART OF THE OVERALL PROJECT DESIGN AND NOT SIMPLY LOCATED IN EXCESS SPACE AFTER PARKING AREAS AND STRUCTURES HAVE BEEN PLANNED

G.1.B. LANDSCAPE PLANTING THAT EMPHASIZES DROUGHT-TOLERANT AND/OR NATIVE SPECIES SHALL BE PROVIDED FOR ALL ADJACENT, AND UNIMPROVED PUBLIC RIGHTS-OF-WAY, INCLUDING PARKWAY PLANTER STRIPS

G.1.C. STREET TREES, AS SPECIFIED BY THE PUBLIC WORKS DEPARTMENT, SHALL BE INSTALLED

G.1.D. LANDSCAPING SHALL BE PROVIDED THROUGHOUT PARKING AREAS IN COMPLIANCE WITH CHAPTER 19.70 (PARKING AND LOADING STANDARDS - HTTPS://TINYURL.COM/Y7WT7RXK)

G.1.E. LANDSCAPING ADJACENT TO DRIVEWAYS AND PARKING SHALL BE PROTECTED FROM VEHICLE DAMAGE THROUGH THE PROVISION OF MINIMUM 6-INCH-HIGH CONCRETE CURBS OR OTHER TYPES OF BARRIERS AS APPROVED BY THE ARCHITECTURAL REVIEW BOARD OR DIRECTOR; AND

G.1.F. PLANTS WITH SIMILAR WATER NEEDS SHALL BE GROUPED TOGETHER IN DISTINCT HYDROZONES

G.2. PLANT MATERIAL LIMITATIONS. PLANT MATERIALS SHALL BE SELECTED AND INSTALLED TO COMPLY WITH THE FOLLOWING REQUIREMENTS:

G.2.A. PLANT MATERIALS SHALL BE PROVIDED IN THE FOLLOWING MINIMUM PERCENTAGES, AND CALCULATIONS DOCUMENTING THE REQUIRED MIX OF PLANT MATERIALS SHALL BE SHOWN ON THE LANDSCAPE PLAN

G.2.B. PLANT MATERIALS SHALL EMPHASIZE DROUGHT-TOLERANT AND/OR NATIVE SPECIES;

G.2.B.A. AT LEAST 90 PERCENT OF THE PLANTS SELECTED IN NON-TURF AREAS SHALL BE SUITED TO CHICO'S CLIMATE AND REQUIRE MINIMAL WATER ONCE ESTABLISHED. EXCEPTIONS TO THIS REQUIREMENT MAY BE GRANTED IN SITUATIONS WHERE NON-POTABLE PRIVATE WELL WATER IS USED FOR IRRIGATION PURPOSES; AND

G.2.B.B. UP TO 10 PERCENT OF THE PLANT MATERIALS MAY BE OF A LESS DROUGHT-TOLERANT VARIETY AS LONG AS THEY ARE GROUPED TOGETHER AND CAN BE IRRIGATED SEPARATELY

G.2.C. ALL LANDSCAPE PLANTINGS SHALL BE OF SUFFICIENT SIZE AND INTENSITY SO THAT A FINISHED APPEARANCE AND PLANT MATURITY CAN BE ATTAINED IN A REASONABLE TIME;

G.2.D. TREES AND SHRUBS SHALL BE PLANTED SO THAT AT MATURITY THEY DO NOT INTERFERE WITH SERVICE LINES AND SIGHT DISTANCE AREAS

G.2.E. FOR PROJECTS INVOLVING THE CONSTRUCTION OF 25 OR MORE PARKING STALLS, PARKING LOT SHADE TREES SHALL BE A MIX OF TREE SPECIES, WITH NO SINGLE SPECIES REPRESENTING MORE THAN APPROXIMATELY ONE-THIRD OF THE TOTAL NUMBER OF PARKING LOT SHADE TREES. EXCEPTIONS TO THIS REQUIREMENT MAY BE APPROVED THROUGH SITE DESIGN AND ARCHITECTURAL REVIEW (CHAPTER 19.18) OR BY THE DIRECTOR

G.2.F. TREES PLANTED NEAR PUBLIC SIDEWALKS OR CURBS SHALL BE OF A SPECIES AND INSTALLED IN A MANNER WHICH PREVENTS PHYSICAL DAMAGE TO SIDEWALKS, CURBS, GUTTERS, AND OTHER PUBLIC IMPROVEMENTS;

G.2.G. GROUND COVER SHALL BE OF LIVE PLANT MATERIAL. GRAVEL, COLORED ROCK, WALK-ON BARK, AND SIMILAR MATERIALS SHALL BE USED TEMPORARILY, IN COMBINATION WITH A LIVING GROUNDCOVER, IN ALL NON-TURF AREAS AS A MULCH TO CONTROL WEEDS AND CONSERVE OR RETAIN WATER UNTIL A LIVING GROUND COVER HAS ACHIEVED FULL COVERAGE. NON-PLANT MATERIALS MAY BE APPROVED FOR USE IN LIMITED AREAS THROUGH THE SITE DESIGN AND ARCHITECTURAL REVIEW PROCESS (CHAPTER 19.18 - HTTPS://TINYURL.COM/5N7KB9DX); AND

G.3. THE COMBINED TURF AND/OR WATER AREA, INCLUDING POOLS, PONDS, AND FOUNTAINS, SHALL BE LIMITED TO 25 PERCENT OF THE IRRIGATED AREA OR 500 SQUARE FEET, WHICHEVER IS GREATER. PUBLIC PARKS, GOLF COURSES, PUBLIC AND PRIVATE SCHOOL RECREATION AREAS, DETENTION OR RETENTION AREAS FOR WATER QUALITY, AND DAY CARE RECREATION AREAS ARE EXCLUDED FROM THIS TURF AND/OR WATER AREA LIMITATION. EXCEPTIONS TO THIS REQUIREMENT MAY BE APPROVED THROUGH SITE DESIGN AND ARCHITECTURAL REVIEW (CHAPTER 19.18).

H. TREE PRESERVATION MEASURES:

I. SUBMITTAL REQUIREMENTS. APPLICATIONS FOR A LAND USE ENTITLEMENT SHALL INCLUDE A TREE INVENTORY AS SET FORTH IN CMC 16.66.070 - HTTPS://TINYURL.COM/3BDWJP76

J. TREE PROTECTION MEASURES:

J.1. AS A CONDITION OF PERMIT APPROVAL, THE RELOCATION OF TREES PROPOSED FOR REMOVAL, OR REPLACEMENT OF THE REMOVED TREES WITH OTHER TREES PLANTED ELSEWHERE ON THE SITE, MAY BE REQUIRED. REPLACEMENT TREES MAY BE REQUIRED ON A MORE THAN ONE-FOR-ONE BASIS IF THE REPLACEMENT TREES ARE SMALLER THAN THE TREES BEING REMOVED

J.2. THE DIRECTOR SHALL DETERMINE DURING PROJECT REVIEW WHICH EXISTING TREES WILL REQUIRE PROTECTION DURING CONSTRUCTION. THIS DECISION SHALL BE BASED UPON THE PROXIMITY OF CONSTRUCTION ACTIVITY AND THE LOCATION OF THE TREES RELATIVE TO THE STRUCTURE AND OTHER FACILITIES. ALL TREES APPROVED FOR REMOVAL SHALL BE EXEMPT FROM PROTECTION REQUIREMENTS.

J.3. THE NATURAL GRADE AROUND THE DRIPLINE OF EXISTING TREES SHALL REMAIN UNDISTURBED DURING AND AFTER CONSTRUCTION. WHERE GRADE CHANGES AND/OR SITE IMPROVEMENTS ARE PROPOSED TO OCCUR WITHIN THE DRIPLINE, A SUITABLE MITIGATION PLAN SHALL BE DEVELOPED BY A CERTIFIED ARBORIST, LANDSCAPE ARCHITECT, OR THE CITY URBAN FOREST MANAGER. THE PLAN SHALL PROTECT THE TREE FROM EXCESS FILL AND/OR THE REMOVAL OF EXCESS SOIL FROM THE ROOT Z

J.4. PRIOR TO BEGINNING CONSTRUCTION, EXISTING TREES SHALL BE PRUNED TO REMOVE LIMBS WHICH MAY BE DEAD OR MAY BECOME DAMAGED DURING CONSTRUCTION. PRUNING SHALL BE PERFORMED CONSISTENT WITH ANSI A300 PRUNING STANDARDS

J.5. A TEMPORARY CONSTRUCTION FENCE SHALL BE INSTALLED AT THE DRIPLINE OR NO CLOSER THAN 20 FEET FROM THE TREE TRUNK. THE FENCE SHALL BE SUBSTANTIAL ENOUGH TO RESTRICT ACTIVITY TO OUTSIDE THE AREA AND SHALL BE INSTALLED PRIOR TO ANY GRADING OR OTHER CONSTRUCTION ACTIVITY. DURING CONSTRUCTION, MAINTENANCE SHALL BE PERFORMED SO THAT THE FENCE REMAINS IN GOOD REPAIR. REMOVAL OF THE FENCE SHALL ONLY OCCUR TO ALLOW APPROVED CONSTRUCTION WITHIN THE AREA OR TO COMPLETE SITE LANDSCAPING. CITY PLANNING STAFF SHALL BE CONTACTED, PRIOR TO COMMENCEMENT OF CONSTRUCTION, TO INSPECT FENCING AND TO APPROVE ANY CONSTRUCTION WITHIN THE DRIPLINE

J.6. UNDERGROUND FACILITIES AND TRENCHES, (E.G., UTILITY SERVICES, SANITARY SEWER, OR STORM DRAINAGE LINES) SHALL BE CONSOLIDATED, TO THE EXTENT FEASIBLE, AND LOCATED TO MINIMIZE IMPACTS UPON TREE ROOT SYSTEMS. TRENCHING OR UNDERGROUND WORK SHOULD BE LOCATED OUTSIDE OF THE TREE DRIPLINE. ANY TRENCHING REQUIRED WITHIN THE TREE DRIPLINE SHALL BE AS FAR FROM THE TREE TRUNK AS POSSIBLE AND SHALL BE EXCAVATED USING HAND TOOLS, PRESSURIZED WATER, OR OTHER APPROVED METHOD TO MINIMIZE IMPACTS ON ROOTS. ALL TRENCHING WITHIN THE DRIPLINE SHALL BE SUPERVISED BY A CERTIFIED ARBORIST OR THE CITY URBAN FOREST MANAGER.

J.7. ROOTS 3/4 INCHES OR GREATER IN SIZE ENCOUNTERED DURING TRENCHING SHALL BE CLEANLY CUT AND TREATED WITH A SEALING AGENT TO REDUCE LOSS OF MOISTURE TO THE TREE. ROOTS GREATER THAN 1 1/2 INCHES SHALL BE PRESERVED AND PROTECTED AT THE DIRECTION OF A CERTIFIED ARBORIST.

J.8. NO STAGING, STORAGE AREA FOR CONSTRUCTION, OR CONSTRUCTION WASTE SHALL BE LOCATED CLOSER THAN 50 FEET TO THE DRIPLINE OF ANY TREE TO BE PROTECTED.

J.9. SITE IRRIGATION AND LANDSCAPING SHALL BE PLANNED WITH EXISTING TREES IN MIND. NATIVE TREES TYPICALLY RESPOND POORLY TO IRRIGATION REQUIRED OF MOST ORNAMENTAL LANDSCAPES. A ROCK, COBBLE, OR OTHER MULCH, OR NATIVE SHRUBS AND GROUNDCOVERS, IN COMBINATION WITH DRIP IRRIGATION SYSTEMS SHALL BE USED WITHIN THE DRIPLINE OF NATIVE TREES, PARTICULARLY NATIVE OAK

K. LANDSCAPE STANDARDS:

L. PROJECTS WITH NEW LANDSCAPE AREAS INSTALLED BY A DEVELOPER OF 2,500 SQUARE FEET OR LARGER IN SIZE SHALL DEMONSTRATE COMPLIANCE WITH STATE WATER EFFICIENCY STANDARDS BY USING ONE OF THE FOLLOWING METHODS:

L.1. MODEL WATER EFFICIENT LANDSCAPE ORDINANCE METHOD. PROJECTS USING THIS METHOD SHALL SUBMIT A LANDSCAPE DOCUMENTATION PACKAGE DEMONSTRATING COMPLIANCE WITH THE REVISED STATE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). PROJECT IMPROVEMENTS SHALL BE INSTALLED AND MAINTAINED IN COMPLIANCE WITH AN APPROVED LANDSCAPE DOCUMENTATION PACKAGE. (THE REVISED STATE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (CAL.CODE REGS., TIT. 23, §§ 490-495.) IS HEREBY INCORPORATED BY REFERENCE AND SHALL BE USED FOR THE ADMINISTRATION OF THIS CHAPTER

L.2. GENERAL WATER EFFICIENT DESIGN METHOD. PROJECTS USING THIS METHOD SHALL SUBMIT LANDSCAPE PLANS AND MAKE IMPROVEMENTS IN COMPLIANCE WITH THIS TITLE, AS WELL AS ALL OF THE FOLLOWING WATER EFFICIENT LANDSCAPE CRITERIA:

L.2.A. THE PLANS SHALL BE PREPARED BY A LANDSCAPE ARCHITECT, CERTIFIED IRRIGATION DESIGNER, OR OTHER LANDSCAPE PROFESSIONAL AUTHORIZED TO SIGN SUCH PLANS AS PROVIDED IN STATE LAW;

L.2.B. TURF AREAS SHALL COMPRISE LESS THAN 10 PERCENT OF THE TOTAL LANDSCAPE AREA AND ARE ON SEPARATE IRRIGATION CONTROLS FROM TREES AND SHRUBS;

L.2.C. PLANT SPECIES SHALL BE GROUPED TOGETHER IN DISTINCT HYDROZONES AND LIMITED TO NON-INVASIVE SPECIES AS SPECIFIED IN THE MOST RECENT WATER USE CLASSIFICATION OF LANDSCAPE SPECIES (WUCOLS), UNIVERSITY OF CALIFORNIA COOPERATIVE EXTENSION, AVAILABLE FROM THE DEPARTMENT OF WATER RESOURCES;

L.2.D. PLANT SPECIES SHALL BE SELECTED FROM THE "VERY LOW," "LOW" AND/OR LESS THAN 50 PERCENT BY HYDROZONE AREA "MODERATE" WUCOLS CATEGORIES FOR THE CHICO REGION. SPECIES NOT LISTED IN THE WUCOLS MAY BE APPROVED BY THE DIRECTOR ON A CASE-BY-CASE BASIS WHERE THE LANDSCAPE PROFESSIONAL CAN DOCUMENT THAT THE SPECIES IS APPROPRIATE FOR PLACEMENT IN A QUALIFYING HYDROZONE;

L.2.E. THE IRRIGATION SYSTEM SHALL BE LIMITED TO SUBSURFACE AND SURFACE DRIP EMITTERS, AND LESS THAN 10 PERCENT OF THE LANDSCAPE AREA SHALL BE IRRIGATED BY SPRINKLERS OR OTHER TYPES OF OVERHEAD SPRAYING

L.2.F. PRINKLERS, IF USED, SHALL BE MOUNTED ON SWING ARM ATTACHMENTS AND LOCATED MORE THAN 24-INCHES FROM HARDSCAPE

L.2.G. SPRINKLERS SHALL BE LIMITED TO LANDSCAPE AREAS THAT ARE LARGER THAN EIGHT FEET IN WIDTH; AND

L.2.H. SOIL AMENDMENTS SHALL BE SPECIFIED FOR BACKFILL MATERIAL WHERE EXISTING SOILS ARE NOT COMPRISED OF VINA LOAM, CHICO LOAM, ALMENDRA LOAM, AND/OR CONEJO CLAY LOAM (FOR EXAMPLE. FOOTHILL AREAS EAST OF STATE ROUTE 99 AND AREAS SOUTH OF SKYWAY). POST-INSTALLATION LABORATORY SOIL TESTING MAY BE REQUIRED TO VERIFY THAT BACKFILL MATERIAL MEETS MINIMUM REQUIREMENTS.

CITY PARKING COMPLIANCE

(DIVISION IV CHAPTER 19.70)

A. NUMBER OF PARKING SPACES REQUIRED:

A.1. PARKING REQUIRED BY ENTITLEMENTS, DEVELOPMENT AGREEMENTS, AND SPECIFIC PLANS. PARKING REQUIREMENTS ESTABLISHED BY PLANNED DEVELOPMENT PERMITS, USE PERMITS, DEVELOPMENT AGREEMENTS, OR SPECIFIC PLANS, AS ESTABLISHED ELSEWHERE IN THIS CODE, SHALL SUPERSEDE THE PROVISIONS OF THIS SECTION.

A.2. ROUNDING OF QUANTITIES. WHEN CALCULATING THE NUMBER OF REQUIRED PARKING SPACES RESULTS IN A FRACTION, THE REQUIREMENT SHALL BE ROUNDED DOWN TO THE NEXT WHOLE NUMBER.

A.3. EXCESSIVE PARKING. OFF-STREET PARKING SPACES IN EXCESS OF THESE STANDARDS CREATE LARGE AMOUNTS OF IMPERVIOUS SURFACES THAT INCREASE RADIANT HEAT AND MAY HAVE A NEGATIVE AESTHETIC APPEARANCE. PARKING SPACES WHICH EXCEED THE MINIMUM NUMBER OF SPACES REQUIRED BY MORE THAN 35 PERCENT MAY BE ADMINISTRATIVELY APPROVED BY THE DIRECTOR WHEN A COMBINATION OF ADDITIONAL LANDSCAPING, PEDESTRIAN/BICYCLE IMPROVEMENTS, AND/OR PERVIOUS SURFACES ARE PROVIDED ABOVE THOSE REQUIRED BY THIS CHAPTER. THE AREA FOR OFF-STREET PARKING ON ANY PARCEL SHALL NOT EXCEED 75 PERCENT OF THE SITE AREA

A.4. TABLE 5-4 PARKING REQUIREMENTS:

A.4.A. COMMUNITY CENTERS AND PAVILIONS:

A.4.A.1. VEHICLE SPACES REQUIRED: 1 SPACE FOR EACH 5 FIXED SEATS OR 1 SPACE FOR EACH 10 FEET OF BENCHES, OR 1 SPACE FOR EVERY 42 SQ.FT. OF GROSS ASSEMBLY AREA, WHICHEVER IS GREATER.

A.4.A.2. BICYCLE SPACES REQUIRED: MINIMUM OF 1 SPACE; 10% OF VEHICLE SPACES FOR PLACES OF WORSHIP.

B. DESIGN AND DEVELOPMENT STANDARDS FOR OFF-STREET PARKING

B.1. IN ORDER TO MINIMIZE THE VISUAL IMPACT OF VEHICLES, THE PARKING AREAS OTHER THAN SINGLE-FAMILY RESIDENTIAL SHALL BE LOCATED TO THE REAR OR SIDE OF THE PARCEL, OR APPROPRIATELY SCREENED FROM PUBLIC VIEWS IF LOCATED ALONG THE STREET FRONTAGES. THE PARKING AREAS SHALL NOT BE LOCATED WITHIN A SIGHT DISTANCE AREA

B.2. OFF-STREET PARKING FOR ALL USES OUTSIDE THE DOWNTOWN AREA, EXCEPT FOR SINGLE-FAMILY DWELLINGS AND DUPLEXES, SHALL BE LOCATED AT LEAST 10 FEET BEHIND THE FRONT AND STREET-SIDE PROPERTY LINES. THE AREA BETWEEN THE PARKING AREA AND THE PROPERTY LINE(S) SHALL BE FULLY LANDSCAPED, EXCEPT FOR POINT OF ACCESS, AND THIS LANDSCAPED AREA SHALL NOT BE COUNTED AS MEETING THE MINIMUM 5 PERCENT INTERIOR LANDSCAPE REQUIREMENT

B.3. PARKING LOT AND SPACE DIMENSIONS: MINIMUM PARKING DIMENSIONS SHALL BE AS INDICATED IN THE FOLLOWING TABLE 5-5 (HTTPS://TINYURL.COM/N7FN5W8V) AND AS ILLUSTRATED BY FIGURE 5-10 (HTTPS://TINYURL.COM/2B3TRAYS).

B.3.A. STANDARD STALL: 20 FEET, OR 18 FEET* X 9 FEET

B.3.B. COMPACT STALL: 16 FEET, OR 14 FEET* X 8 FEET

B.3.C. PARALLEL PARKING: 22 FEET X 9 FEET

B.4. PARKING LOT AISLES DIMENSIONS:

B.4.A. ONE-WAY TRAFFIC AND DOUBLE-LOADED AISLES; 90 DEGREE : 20 STALL DEPTH; 24 FEET AISLE

B.4.B. TWO-WAY TRAFFIC AND DOUBLE-LOADED AISLES; 90 DEGREE : 20 STALL DEPTH; 24 FEET AISLE

B.5. DRAINAGE. ALL OFF-STREET PARKING/LOADING AREAS SHALL BE DESIGNED AND CONSTRUCTED:

B.5.A. SO THAT SURFACE WATER WILL NOT DRAIN OVER ANY SIDEWALK OR ADJACENT PARCELS. DRAINAGE FROM A SITE TO A STREET ACROSS A DRIVEWAY MAY BE APPROVED; AND

B.5.B. IN COMPLIANCE WITH THE STORMWATER QUALITY AND QUANTITY STANDARDS AND THE CITY'S BEST MANAGEMENT PRACTICES

B.6. GENERAL PARKING SPACE DESIGN AND LAYOUT STANDARDS

B.6.A. AREA OF LANDSCAPING REQUIRED. LANDSCAPING SHALL BE PROVIDED IN ALL BUFFER AREAS BETWEEN PROPERTY LINES AND THE OFF-STREET PARKING AREAS, TO PROPERLY SCREEN VEHICLES FROM VIEW AND MINIMIZE THE EXPANSIVE APPEARANCE OF THESE AREAS. A MINIMUM OF 5 PERCENT OF THE TOTAL INTERIOR OFF-STREET PARKING AREA SHALL BE LANDSCAPED, UNLESS THE REVIEW AUTHORITY FINDS THAT A LESSER OR GREATER PERCENTAGE WOULD BE COMPATIBLE WITH THE SURROUNDING AREA

B.6.B. AREA OF SHADING REQUIRED. TREES SHALL BE PLANTED AND MAINTAINED IN PLANTERS OR LANDSCAPED AREAS SO THAT AT TREE MATURITY, 15 YEARS, AT LEAST 50 PERCENT OF THE TOTAL PAVING AREA, NOT INCLUDING THE ENTRANCE DRIVES AS DEPICTED IN FIGURE 5-11, PARKING AREAS UNDER CARPORTS, OR MULTI-STORY PARKING STRUCTURES, SHALL BE SHADED AT SOLAR NOON ON JUNE 21. THIS SHADING REQUIREMENT SHALL NOT APPLY TO THE DEVELOPMENT OF SINGLE FAMILY RESIDENCES. ON SITES WITH COMPACTED OR POOR SOILS AND/OR DRAINAGE, ADDITIONAL INSTALLATION MEASURES SUCH AS, BUT NOT LIMITED TO, SOIL AMENDMENTS AND OVER-EXCAVATION OF PLANTING HOLES, SHALL BE REQUIRED TO ENSURE THAT THE SHADING STANDARD CAN BE REACHED. ACTIVE SOLAR ARRAYS MAY BE USED IN PART TO MEET THE SHADING REQUIREMENT IF APPROVED IN CONFORMANCE WITH CHAPTER 19.18 (SITE DESIGN AND ARCHITECTURAL REVIEW

B.6.C. CALCULATIONS. SHADED PARKING LOT AREA IS DETERMINED BY USING AN APPROPRIATE PERCENTAGE OF CROWN SQUARE FOOTAGES AS INDICATED IN THE SUNSET WESTERN GARDEN BOOK. OVERLAPPING CANOPIES SHALL NOT COUNT TOWARDS THE CALCULATION NUMBER

B.6.D. CALCULATION TABLE. LANDSCAPE SHADING PLANS SHALL INCLUDE A TABLE THAT INCLUDES THE FOLLOWING INFORMATION:

B.6.D.A. BOTANICAL NAME AND COMMON NAMES OF TREES

B.6.D.B. TOTAL SQUARE FEET OF SHADE ASSUMED FOR EACH TREE

B.6.D.C. TOTAL PARKING LOT AREA TO BE SHADED; AND

B.6.D.D. TOTAL SHADE PROVIDED.

B.6.E. SHADE SQUARE FOOT BONUSES: TREES PLANTED ON THE WESTERN PERIMETER OF PARKING LOTS AND IN LINEAR PLANTERS WITH A MINIMUM WIDTH OF SIX FEET AND A MINIMUM LENGTH OF 36 FEET SHALL RECEIVE A 10 PERCENT SQUARE FOOT SHADE BONUS FOR EACH TREE CANOPY

B.6.F. EXCEPTIONS. EXCEPTIONS FROM THE FIFTY PERCENT SHADING REQUIREMENT MAY BE MADE UNDER EXTRAORDINARY CIRCUMSTANCES WHERE PROJECT DESIGN OR SITE CONDITIONS PRECLUDE ATTAINMENT OF THE STANDARD. SUCH A DEVIATION FROM THE STANDARD SHALL BE SUPPORTED BY A FINDING THAT THE PROJECT HAS BEEN DEMONSTRATED TO BE OF GREATER QUALITY OR COMMUNITY BENEFIT THAN MIGHT OCCUR WITH A CONVENTIONAL DEVELOPMENT PROPOSAL

B.6.G. PERIMETER LANDSCAPING

B.6.G.A. ADJACENT TO STREETS. PARKING AREAS, FOR OTHER THAN SINGLE FAMILY RESIDENTIAL AND RESIDENTIAL DUPLEX USES, ADJOINING A PUBLIC RIGHT-OF-WAY SHALL BE DESIGNED TO PROVIDE A LANDSCAPED PLANTING STRIP BETWEEN THE RIGHT-OF WAY AND PARKING AREA A MINIMUM OF 5 FEET IN DEPTH IN THE DN, DS, RMU AND -COS ZONING DISTRICTS, AND A MINIMUM OF 10 FEET IN ALL OTHER ZONING DISTRICTS. ANY PLANTING, SIGN, OR OTHER STRUCTURE WITHIN A SIGHT DISTANCE AREA OF A DRIVEWAY SHALL NOT EXCEED 36 INCHES IN HEIGHT, WITH THE EXCEPTION OF STREET TREES

B.6.G.B. ADJACENT TO RESIDENTIAL USE. WHEN A PARCEL IS DEVELOPED WITH THREE OR MORE DWELLING UNITS, PARKING LOCATED IN A REAR OR INTERIOR SIDE YARD ADJOINING ANY PARCEL IN THE RS OR R1 ZONING DISTRICT SHALL BE SET BACK AT LEAST 6 FEET FROM THE COMMON PROPERTY LINE, WITH A LANDSCAPED PLANTER AS A BUFFER. PARKING AREAS FOR NON-RESIDENTIAL USES ADJOINING RESIDENTIAL USES SHALL BE DESIGNED TO PROVIDE A LANDSCAPED PLANTER WITH A MINIMUM 10-FOOT WIDTH BETWEEN THE PARKING AREA AND THE COMMON PROPERTY LINE BORDERING THE RESIDENTIAL USE. A FENCE OR WALL SHALL BE CONSTRUCTED ALONG THE PROPERTY LINE, IN COMPLIANCE WITH SUBSECTION J (SCREENING), BELOW. THESE REQUIREMENTS SHALL NOT APPLY TO A PROPERTY LINE IN COMMON WITH AN ALLEY

B.6.H. INTERIOR LANDSCAPING

B.6.H.A. PLANTER STRIPS BETWEEN PARKING AISLES. PLANTER STRIPS AND ISLANDS SHALL BE, AT A MINIMUM, 6 FEET WIDE, MEASURED INSIDE THE CURBING, IN AN AMOUNT TO FULFILL THE 50 PERCENT SHADING AND PARKING LANDSCAPING REQUIREMENT. ADEQUATE PEDESTRIAN PATHS SHALL BE PROVIDED THROUGHOUT THE LANDSCAPED AREAS. CLUSTERING OF TREES MAY BE APPROVED BY THE DIRECTOR OR REVIEW AUTHORITY

B.6.H.B. AREAS NOT USED FOR PARKING. AREAS IN A PARKING LOT NOT USED FOR DRIVEWAYS, MANEUVERING AREAS, PARKING SPACES, OR WALKS SHALL BE LANDSCAPED AND PERMANENTLY MAINTAINED

B.6.I. CURBING, IRRIGATION. ALL AREAS CONTAINING PLANT MATERIALS SHALL BE BORDERED BY A CONCRETE CURB AT LEAST 6 INCHES HIGH AND 6 INCHES WIDE AND PROVIDED WITH AN APPROVED AUTOMATIC IRRIGATION SYSTEM. AN ALTERNATIVE BARRIER DESIGN TO PROTECT LANDSCAPED FROM VEHICLE DAMAGE MAY BE APPROVED BY THE DIRECTOR

B.6.J. LIGHTING. MULTI-FAMILY RESIDENTIAL, COMMERCIAL, AND INDUSTRIAL PARKING AREAS SHALL HAVE LIGHTING CAPABLE OF PROVIDING ADEQUATE ILLUMINATION FOR SECURITY AND SAFETY. LIGHTING STANDARDS SHALL BE ENERGY-EFFICIENT AND IN SCALE WITH THE HEIGHT AND USE OF THE ON-SITE STRUCTURES. ANY ILLUMINATION, INCLUDING SECURITY LIGHTING, SHALL BE SHIELDED AND DIRECTED DOWNWARD, AWAY FROM ADJACENT PROPERTIES AND PUBLIC RIGHTS-OF-WAY IN COMPLIANCE WITH SECTION 19.60.050 (EXTERIOR LIGHTING). SEE FIGURE 5-12.

B.6.J.A. ON-SITE LOCATION REQUIRED. ON-SITE LOCATION REQUIRED. ALL PARKING SPACES SHALL BE LOCATED ON THE SAME PARCEL AS THE MAIN USE OR STRUCTURE UNLESS GRANTED AN ADMINISTRATIVE USE PERMIT IN COMPLIANCE WITH CHAPTER 19.25 (ADMINISTRATIVE USE PERMITS) AND SUBSECTION H (OFF-SITE LOCATION REQUIREMENTS), BELOW

B.6.J.B. OFF-SITE LOCATION REQUIREMENTS. THE FOLLOWING REQUIREMENTS SHALL APPLY TO PROVIDING OFF-STREET PARKING AT AN OFF-SITE LOCATION

B.6.J.C. A PORTION OR ALL OF THE REQUIRED OFF-STREET SPACES, INCLUDING REQUIRED ACCESS, MAY BE LOCATED ON ANY PARCEL WITHIN 500 FEET OF THE SITE;

B.6.J.D. THE APPROVAL SHALL BE BASED ON ACCESSIBILITY TO THE MAIN USE OR STRUCTURE, AND THE USE AND DEVELOPMENT OF THE NEIGHBORING PARCEL(S);

B.6.J.E. THE APPLICANT SHALL PROVIDE EVIDENCE, AS DEEMED SATISFACTORY BY THE ZONING ADMINISTRATOR, THAT A SUITABLE LONG-TERM LEASE OR OTHER BINDING AGREEMENT CAN BE EXECUTED AND RECORDED WHICH WOULD GUARANTEE THAT THE PARCEL CONTAINING THE MAIN USE OR STRUCTURE HAS AN IRREVOCABLE RIGHT TO UTILIZE THE IDENTIFIED PARCEL FOR PARKING; AND

B.6.J.F. HIS PROVISION SHALL NOT APPLY WHERE JOINT USE PARKING AND/OR ACCESS ARE INCLUDED AS PART OF A SUBDIVISION APPROVAL.

B.6.K. SCREENING. MULTI-FAMILY, COMMERCIAL, MANUFACTURING, AND PUBLIC PARKING AREAS ABUTTING RESIDENTIALLY ZONED PARCELS SHALL HAVE A WOOD FENCE OR DECORATIVE MASONRY WALL, NOT LESS THAN 6 FEET HIGH, TO PROPERLY SCREEN THE PARKING AREAS, SUBJECT TO APPROVAL BY THE DIRECTOR. THE DIRECTOR MAY WAIVE OR MODIFY THIS REQUIREMENT TO PROTECT THE VIEWS OF ADJACENT RESIDENCES. WALL TREATMENTS SHALL OCCUR ON BOTH SIDES.

B.6.L. STRIPING AND MARKING. PARKING STALLS SHALL BE IDENTIFIED BY STRIPES OF PAINT, OR OTHER DURABLE STRIPING MATERIAL SPECIFIED AND APPROVED BY THE DIRECTOR, ON THE PARKING LOT SURFACE. DOUBLE STRIPES MAY BE USED. PARALLEL SPACES SHALL BE MARKED WITH SINGLE LINES

B.6.M. SURFACING. ALL OFF-STREET PARKING AREAS, INCLUDING DRIVEWAYS AND MANEUVERING AREAS, SHALL BE PAVED WITH ALL-WEATHER SURFACING AND PROVIDED WITH STORM DRAINAGE FACILITIES SUBJECT TO THE APPROVAL OF THE PUBLIC WORKS DIRECTOR. ALL-WEATHER SURFACING SHALL BE PORTLAND CEMENT CONCRETE, ASPHALTIC CONCRETE, OR DOUBLE CHIP SEAL. POROUS SURFACE MATERIALS WHICH MAY REDUCE STORMWATER RUNOFF MAY BE USED SUBJECT TO REVIEW AND APPROVAL OF THE PUBLIC WORKS DIRECTOR

B.6.N. WHEEL STOPS/CURBING. CONTINUOUS CONCRETE CURBING AT LEAST 6 INCHES HIGH AND 6 INCHES WIDE SHALL BE PROVIDED FOR ALL PARKING SPACES LOCATED ADJACENT TO FENCES, WALLS, PROPERTY LINES, AND STRUCTURES. ALL PARKING LOTS SHALL HAVE CURBING AROUND ALL PARKING AREAS AND AISLE PLANTERS IN COMPLIANCE WITH SUBSECTION E (LANDSCAPING), ABOVE. INDIVIDUAL WHEEL STOPS MAY BE USED IN LIEU OF CONTINUOUS CURBING WHEN THE PARKING STALL IS ADJACENT TO A LANDSCAPED AREA AND THE DRAINAGE IS DIRECTED TO THE LANDSCAPED AREA. WHEEL STOPS SHALL BE MAINTAINED TO PROVIDE PROTECTION OF LANDSCAPED AREAS AND STRUCTURES

B.7. DRIVEWAYS AND SITE ACCESS

B.7.A. NUMBER OF ACCESS POINTS. ONE DRIVEWAY ACCESS FOR EACH OWNERSHIP SHALL BE ALLOWED UNLESS THE PUBLIC WORKS DIRECTOR DETERMINES THAT MORE THAN ONE ACCESS IS REQUIRED TO HANDLE TRAFFIC VOLUMES OR SPECIFIC DESIGNS, INCLUDING RESIDENTIAL CIRCULAR DRIVEWAYS. ADDITIONAL ACCESS SHALL NOT BE ALLOWED IF IT IS DETERMINED TO BE DETRIMENTAL TO TRAFFIC FLOW AND THE SAFETY OF ADJACENT PUBLIC STREETS. WHENEVER A PROPERTY HAS ACCESS TO MORE THAN ONE ROAD, ACCESS SHALL BE GENERALLY LIMITED TO THE LOWEST VOLUME ROAD WHERE THE IMPACT OF A NEW ACCESS WILL BE MINIMIZED. CONSTRUCTION OF ACCESS FROM PRIVATE PROPERTY TO A PUBLIC STREET SHALL REQUIRE AN ENCROACHMENT PERMIT IN COMPLIANCE WITH CHAPTER 14.08 OF THE MUNICIPAL CODE

B.7.B. ADJACENT SITE ACCESS. APPLICANTS FOR NON-RESIDENTIAL DEVELOPMENTS SHOULD BE ENCOURAGED TO PROVIDE CROSS-ACCESS TO ADJACENT NON-RESIDENTIAL PROPERTIES FOR CONVENIENCE, SAFETY, AND EFFICIENT CIRCULATION OF MOTOR VEHICLES

B.7.C. LOCATION OF ACCESS

B.7.C.A. DISTANCE FROM STREET INTERSECTIONS. NO PORTION OF A DRIVEWAY ACCESS SHALL BE ALLOWED WITHIN CURB RETURNS. THE EDGE OF THE ACCESS SHALL BE MORE THAN 10 FEET FROM THE END OF CURB RETURN FOR SINGLE-FAMILY RESIDENTIAL DEVELOPMENTS. FOR ALL OTHER DEVELOPMENTS, THIS DISTANCE SHALL BE MORE THAN 100 FEET. WHERE THE PARCEL SIZE DOES NOT PERMIT THE ACCESS TO BE LOCATED 100 FEET FROM THE END OF CURB RETURN, THE ACCESS SHALL BE LOCATED THE MAXIMUM DISTANCE POSSIBLE FROM THE END OF THE CURB RETURN, SUBJECT TO THE APPROVAL OF THE PUBLIC WORKS DIRECTOR. THIS DISTANCE DOES NOT INCLUDE THE 3-FOOT TRANSITION OR WING SECTIONS ON EACH SIDE OF THE DRIVEWAY. ACCESS IN PROXIMITY TO A CONTROLLED INTERSECTION SHALL BE SUBJECT TO THE APPROVAL OF THE PUBLIC WORKS DIRECTOR

B.7.C.B. DRIVEWAY SPACING. DRIVEWAYS SHALL BE SEPARATED AT THE STREET FRONTAGE AS FOLLOWS

B.7.C.B.A. MULTI-FAMILY AND NON-RESIDENTIAL DEVELOPMENT. WHERE TWO OR MORE DRIVEWAYS SERVE THE SAME OR ADJACENT MULTI-FAMILY OR NON-RESIDENTIAL DEVELOPMENT, THE CENTERLINES OF ACCESSES SHALL BE SEPARATED BY AT LEAST 200 FEET ON STREETS WITH DESIGN SPEEDS AT OR BELOW 30 MPH AND 300 FEET ON STREETS WITH DESIGN SPEEDS ABOVE 30 MPH. ANY EXCEPTION TO THESE STANDARDS SHALL BE SUBJECT TO THE APPROVAL OF THE PUBLIC WORKS DIRECTOR

B.7.C.B.B. CORNER AND DOUBLE FRONTAGE PARCELS. FOR CORNER AND DOUBLE FRONTAGE RESIDENTIAL PARCELS, OTHER THAN SINGLE-FAMILY AND DUPLEX RESIDENTIAL, ONE ACCESS ON EACH FRONTAGE MAY BE ALLOWED IF IT IS DETERMINED BY THE PUBLIC WORKS DIRECTOR THAT TWO DRIVEWAYS ARE NEEDED TO PROVIDE SAFE ACCESS FOR TRAFFIC ENTERING AND LEAVING THE PARCEL BECAUSE OF SIGHT DISTANCE AND GEOMETRIC DESIGN CONSIDERATIONS

B.7.D. DRIVEWAY ALIGNMENTS - COMMERCIAL DEVELOPMENT. WHERE COMMERCIAL PARCELS ARE NOT LARGE ENOUGH TO ALLOW ACCESSES ON OPPOSITE SIDES OF THE STREET TO BE ALIGNED, THE CENTER OF DRIVEWAYS NOT IN ALIGNMENT SHALL BE OFFSET A MINIMUM OF 150 FEET ON ALL COLLECTOR ROADS, AND 300 FEET ON ALL MAJOR AND ARTERIAL ROADS. GREATER DISTANCES MAY BE REQUIRED, IF NEEDED, FOR LEFT-TURN STORAGE LANES. EXCEPTIONS TO THESE STANDARDS SHALL BE SUBJECT TO THE APPROVAL OF THE PUBLIC WORKS DIRECTOR

B.7.E. DRIVEWAY WIDTH AND LENGTH

B.7.E.A. COMMERCIAL AND MANUFACTURING ZONING DISTRICTS. DRIVEWAY DIMENSIONS SHALL BE CONSISTENT WITH TITLE 18R (DESIGN CRITERIA AND IMPROVEMENT STANDARDS

B.7.F. CLEARANCE FROM APPURTENANCES. THE NEAREST EDGE OF ANY DRIVEWAY CURB CUT SHALL BE AT LEAST 3 FEET FROM THE NEAREST PROPERTY LINE, EXCEPT WHERE THE REVIEW AUTHORITY HAS APPROVED A SHARED DRIVEWAY BETWEEN TWO PARCELS, THE CENTERLINE OF A FIRE HYDRANT, UTILITY POLE, DROP INLET, AND/OR APPURTENANCES, TRAFFIC SIGNAL INSTALLATIONS, LIGHT STANDARDS, OR OTHER FACILITIES. THE NEAREST EDGE OF ANY DRIVEWAY SHALL ALSO BE AT LEAST 5 FEET FROM THE NEAREST PROJECTION OF THIS TYPE OF INSTALLATION

B.7.G. SIGHT DISTANCE AT DRIVEWAYS. AT LEAST 150 FEET OF CLEAR SIGHT DISTANCE SHALL BE PROVIDED FOR ALL ACCESS ONTO LOCAL STREETS, 250 FEET FOR COLLECTOR STREETS, AND 450 FEET FOR ARTERIAL STREETS, OR AS APPROVED BY THE PUBLIC WORKS DIRECTOR

B.7.H. FIRE DEPARTMENT ACCESS. FOR MULTI-FAMILY RESIDENTIAL AND NON-RESIDENTIAL DEVELOPMENT, MINIMUM CLEAR TURNING RADII SHALL BE PROVIDED WITHIN PARKING LOT AND ACCESS AISLES FOR FIRE DEPARTMENT VEHICLES

B.7.I. SIGNS. ALL EXITS FROM PARKING LOTS SHALL BE PROVIDED WITH ADEQUATE TRAFFIC CONTROL AS APPROVED BY THE PUBLIC WORKS DIRECTOR

B.8. BICYCLE PARKING AND SUPPORT FACILITIES

B.8.A. PARKING EQUIPMENT. EACH BICYCLE PARKING SPACE SHALL INCLUDE A STATIONARY PARKING DEVICE TO ADEQUATELY SUPPORT AND SECURE THE BICYCLE. COVERED BICYCLE PARKING SHALL BE PROVIDED FOR AT LEAST ONE-HALF OF THE MINIMUM NUMBER OF REQUIRED BICYCLE SPACES FOR MULTI-FAMILY, COMMERCIAL AND INDUSTRIAL USES WHERE 10 OR MORE BICYCLE PARKING SPACES ARE REQUIRED. THE METHOD OF COVERING THE BICYCLE SPACES SHALL BE SUBJECT TO REVIEW PURSUANT TO CHAPTER 19.18 (SITE DESIGN AND ARCHITECTURAL REVIEW

B.8.B. PARKING LAYOUT

B.8.B.A. AISLES. AISLES PROVIDING ACCESS TO BICYCLE PARKING SPACES SHALL BE AT LEAST 5 FEET IN WIDTH AND OF SUFFICIENT HEIGHT TO PROVIDE REASONABLE ACCESS

B.8.B.B. SPACES. EACH BICYCLE SPACE SHALL BE A MINIMUM OF 2 FEET IN WIDTH AND 6 FEET IN LENGTH

B.8.B.C. RELATIONSHIP TO STRUCTURE ENTRANCES. BICYCLE SPACES SHALL BE CONVENIENTLY LOCATED AND GENERALLY WITHIN PROXIMITY TO THE MAIN ENTRANCE OF A STRUCTURE

B.8.B.D. RELATIONSHIP TO MOTOR VEHICLE PARKING. BICYCLE SPACES SHALL BE SEPARATED FROM MOTOR VEHICLE PARKING SPACES OR AISLES BY A FENCE, WALL, OR CURB, OR BY AT LEAST 5 FEET OF OPEN AREA, MARKED TO PROHIBIT MOTOR VEHICLE PARKING.

B.8.C. SHOWER AND LOCKER FACILITIES. THE MINIMUM NUMBER OF REQUIRED VEHICLE PARKING SPACES MAY BE REDUCED BY 5 PERCENT IF SHOWER AND LOCKER FACILITIES ARE PROVIDED

B.8.C.A. REQUIRED SHOWER FACILITIES. SHOWER FACILITIES SHALL BE PROVIDED AS REQUIRED IN TABLE 5-6 (HTTPS://TINYURL.COM/4SUMWESR)

B.8.C.B. REQUIRED LOCKER FACILITIES. LOCKERS FOR PERSONAL EFFECTS SHALL BE LOCATED NEAR REQUIRED SHOWERS AND DRESSING AREAS

B.9. OFF-STREET LOADING SPACE REQUIREMENTS

B.9.A. COMMERCIAL, MANUFACTURING, INSTITUTIONAL, AND SERVICE USES LOADING SPACES REQUIRED:

B.9.A.A. 10,000 TO 35,000 SQ.FT.: 1 LOCATION

B.9.A.B. 35,001+ SQ.FT.: 1 FOR EACH 35,000 SQ.FT., PLUS ADDITIONAL AS REQUIRED BY DIRECTOR

B.9.B. DIMENSIONS. REQUIRED FREIGHT AND EQUIPMENT LOADING SPACES SHALL BE NOT LESS THAN 15 FEET IN WIDTH FOR SIDE LOADING AND UNLOADING APPLICATIONS, OR 12 FEET IN WIDTH FOR REAR-ONLY LOADING AND UNLOADING APPLICATIONS

B.9.C. LIGHTING. LOADING AREAS SHALL HAVE LIGHTING CAPABLE OF PROVIDING ADEQUATE ILLUMINATION FOR SECURITY AND SAFETY. LIGHTING STANDARDS SHALL BE ENERGY-EFFICIENT AND IN SCALE WITH THE HEIGHT AND USE OF THE STRUCTURES. ANY ILLUMINATION, INCLUDING SECURITY LIGHTING, SHALL BE SHIELDED AND DIRECTED AWAY FROM ADJACENT PARCELS AND PUBLIC RIGHTS-OF-WAY IN COMPLIANCE WITH SECTION 19.60.050 (EXTERIOR LIGHTING).

B.9.D. LOADING DOORS AND GATES. LOADING BAYS AND ROLL-UP DOORS SHALL BE PAINTED TO COORDINATE WITH THE EXTERIOR STRUCTURE WALLS AND BE LOCATED ON THE REAR OF THE STRUCTURE ONLY. BAYS AND DOORS MAY BE LOCATED ON THE SIDE OF A STRUCTURE, AWAY FROM A STREET FRONTAGE, WHERE THE DIRECTOR DETERMINES THAT THE BAYS, DOORS, AND RELATED TRUCKS WILL BE ADEQUATELY SCREENED FROM PUBLIC VIEW FROM ANY STREET OR PUBLIC RIGHT-OF-WAY

B.9.E. LOADING RAMPS. ALL PLANS FOR LOADING RAMPS OR TRUCK WELLS SHALL BE ACCOMPANIED BY A PROFILE DRAWING SHOWING THE RAMP, RAMP TRANSITIONS, AND OVERHEAD AND ADJACENT WALL CLEARANCES, AND DESIGNED FOR ADEQUATE DRAINAGE.

B.9.F. LOCATION. LOADING SPACES SHALL BE LOCATED AND DESIGNED AS FOLLOWS

B.9.F.A. LOCATION. LOADING SPACES SHALL BE LOCATED AND DESIGNED AS FOLLOWS

B.9.F.B. SITUATED TO ENSURE THAT THE LOADING FACILITY IS ADEQUATELY SCREENED AND NOT VISIBLE FROM ANY MAJOR PUBLIC RIGHTS-OF-WAY

B.9.F.C. SITUATED TO ENSURE THAT ALL LOADING AND UNLOADING TAKES PLACE ON-SITE, AND IN NO CASE WITHIN ADJACENT PUBLIC RIGHTS-OF-WAY, OR OTHER TRAFFIC AREAS ON-SITE;

B.9.F.D. SITUATED TO ENSURE THAT ALL VEHICULAR MANEUVERS OCCUR ON-SITE; AND

B.9.F.E. SITUATED TO AVOID ADVERSE NOISE IMPACTS UPON NEIGHBORING RESIDENTIAL PROPERTIES, IN COMPLIANCE WITH CITY NOISE REGULATIONS CONTAINED IN SECTION 19.60.080 (NOISE).

B.9.G. SCREENING. ALL LOADING AREAS ABUTTING RESIDENTIALLY ZONED PARCELS SHALL HAVE AT LEAST A 6-FOOT-HIGH SOLID, ARCHITECTURALLY TREATED, DECORATIVE MASONRY WALL AND LANDSCAPING, SUBJECT TO ARCHITECTURAL REVIEW OR ENTITLEMENT APPROVAL, TO PROPERLY SCREEN THE LOADING AREAS. ALL WALL TREATMENTS SHALL OCCUR ON BOTH SIDES

B.9.H. STRIPING. LOADING AREAS SHALL BE STRIPED INDICATING THE LOADING SPACES AND IDENTIFYING THE SPACES FOR "LOADING ONLY." THE STRIPING SHALL BE PERMANENTLY MAINTAINED IN A CLEAR AND VISIBLE MANNER AT ALL TIMES.

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No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

CHICO AQUATIC AND RECREATION FACILITY

CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
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NOTE & LEGENDS

GN002

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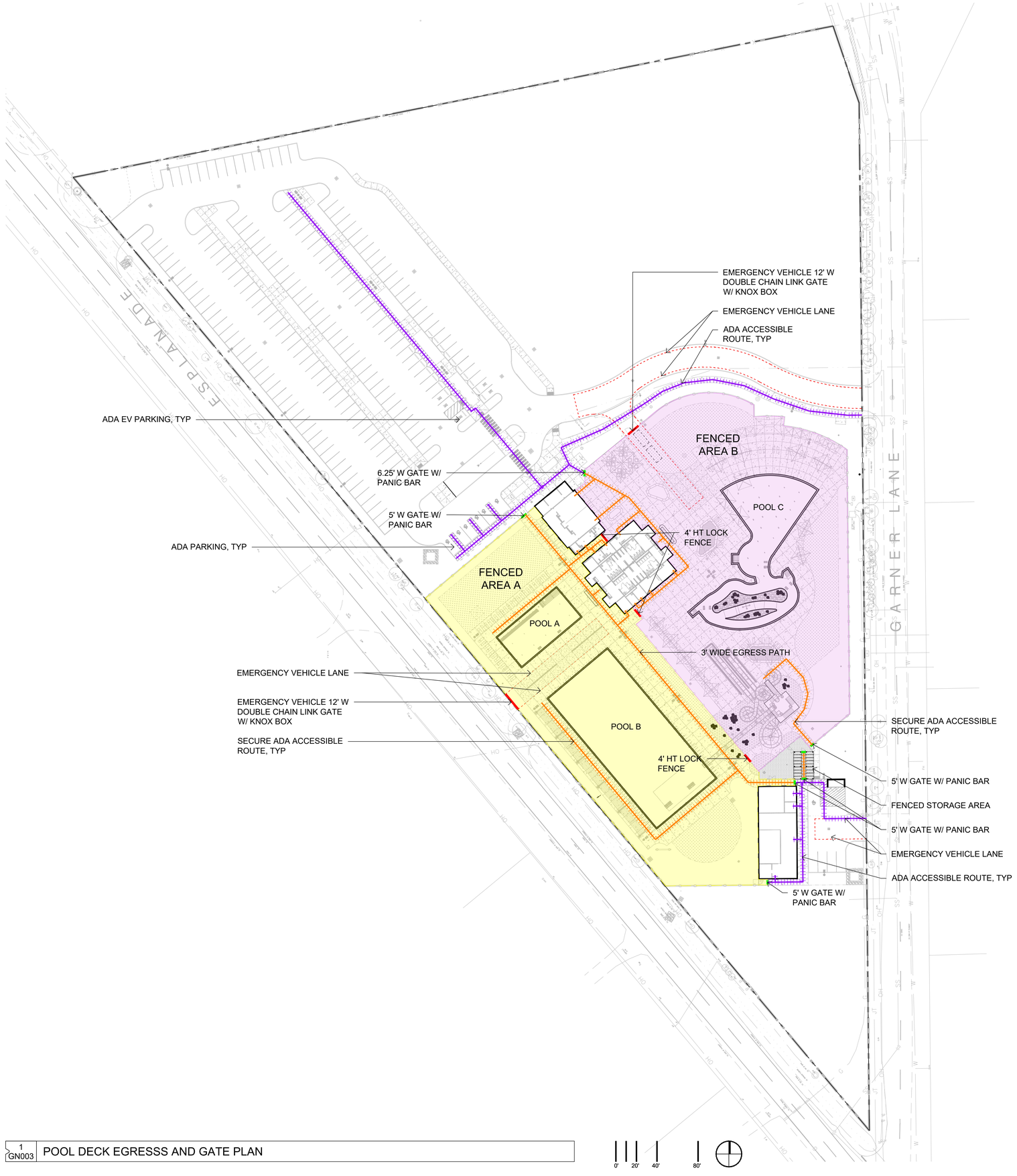

1 GN003 POOL DECK EGRESSS AND GATE PLAN

0' 20' 40' 80'

POOL DECK EGRESS CODE

A. THIS SHEET MUST BE PRINTED IN COLOR TO DISPLAY AND CONVEY ALL THE NECESSARY INFORMATION.

B. KEY REQUIREMENTS FOR OUTDOOR POOL EGRESS

1. OCCUPANCY LOAD
   - 1.1. TOTAL BATHERS: 1,125.
   - 1.2. AREA A (POOLS A + B): 750 BATHERS.
   - 1.3. AREA B (POOL C): 375 BATHERS.

2. NUMBER OF EXITS (GATES)
   - 2.1. BASED ON IBC TABLE 1006.3.1:
   - 2.2. FOR 750 BATHERS (AREA A): MINIMUM 2 EXITS (GATES) REQUIRED.
   - 2.3. FOR 375 BATHERS (AREA B): MINIMUM 2 EXITS (GATES) REQUIRED.

3. EXIT WIDTH
   - 3.1. AREA A (750 BATHERS): 750 × 0.15 = 112.5 INCHES
   - 3.2. AREA B (375 BATHERS): 375 × 0.15 = 56.25 INCHES

4. TRAVEL DISTANCE TO EXITS
   - 4.1. MAXIMUM TRAVEL DISTANCE:
   - 4.2. 200 FEET IF UNSPRINKLERED.
   - 4.3. 250 FEET IF SPRINKLERED.
   - 4.4. IN LARGE, OPEN AREAS, LOCAL CODES MAY ALLOW UP TO 400 FEET (CONFIRM WITH AHJ).

5. GATE FEATURES
   - 5.1. ALL GATES MUST:
     - 5.1.1. SWING OUTWARD IN THE DIRECTION OF EGRESS.
     - 5.1.2. BE EQUIPPED WITH PANIC HARDWARE FOR QUICK EXIT.
     - 5.1.3. BE ADA-COMPLIANT:
       - 5.1.3.1. MINIMUM WIDTH: 36 INCHES PER GATE.
       - 5.1.3.2. OPERABLE PARTS MUST NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING.

B. SUMMARY FOR CARD PROJECT:

1. AREA A (POOLS A + B, 750 BATHERS):
   - 1.1. NUMBER OF GATES: 2 GATES (MINIMUM), EACH 60 INCHES WIDE.
2. AREA B (POOL C, 375 BATHERS):
   - 2.1. NUMBER OF GATES: 2 GATES (MINIMUM), EACH 60 INCHES WIDE.

3. ALL CHAIN LINK GATES WILL BE 6' HT X 5' W WITH PANIC, SWINGING OUT

C. CALIFORNIA-SPECIFIC POOL CODES (CHAPTER 31B OF CCR, TITLE 24):

1. FENCING REQUIREMENTS:
   - 1.1. FENCE HEIGHT MUST BE AT LEAST 5 FEET.
   - 1.2. GATES MUST SELF-CLOSE AND SELF-LATCH.

2. GATE HARDWARE:
   - 2.1. PANIC HARDWARE IS REQUIRED FOR EMERGENCY EXITS.
   - 2.2. LATCHES AND HARDWARE MUST BE INSTALLED BETWEEN 3.5 AND 4 FEET ABOVE THE GROUND.

3. EXIT DISCHARGE:
   - 3.1. GATES MUST LEAD DIRECTLY TO A PUBLIC WAY OR A SAFE AREA OUTSIDE THE POOL FENCE.

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CHICO AREA RECREATION & PARK DISTRICT

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POOL DECK EGRESS CODE

GN003

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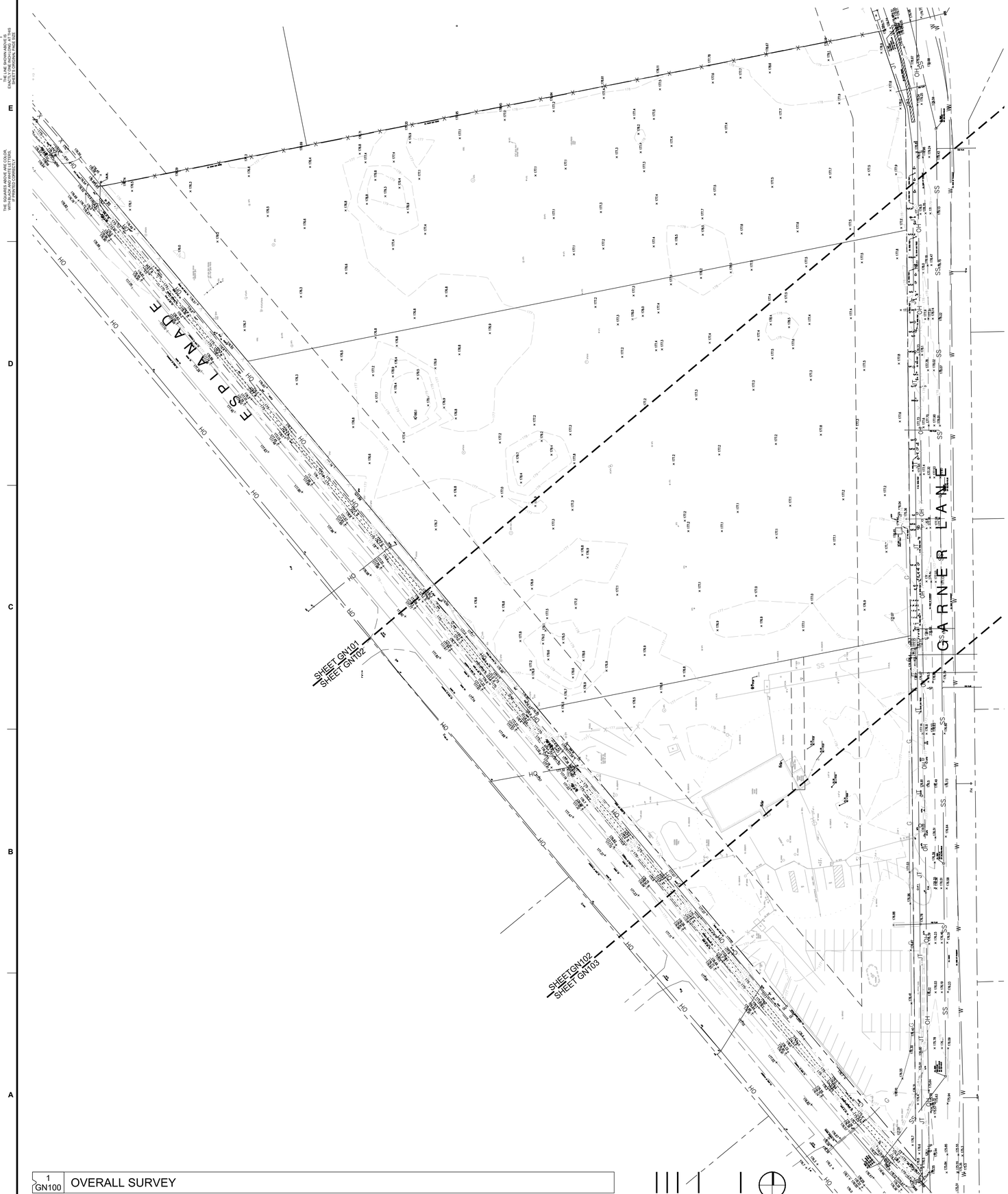

1 GN100 OVERALL SURVEY

EXISTING CONDITIONS GENERAL NOTES

A. ROLLS ANDERSON & ROLLS (RAR), 115 YELLOWSTONE DRIVE, CHICO, CA 95973 (530-895-1422) PREPARED THE SURVEY FOR THIS PROJECT. SURVEY JOB #23098, JUNE 2023. CONTACT RAR FOR A FULL SEALED SURVEY PRIOR TO BID. SHEET GN100 THROUGH GN103 IS PROVIDED FOR GENERAL CONTEXT. IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT OF ANY ANY DISCREPANCIES BETWEEN THE SURVEY AND FIELD CONDITIONS.

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OVERALL SURVEY

GN100

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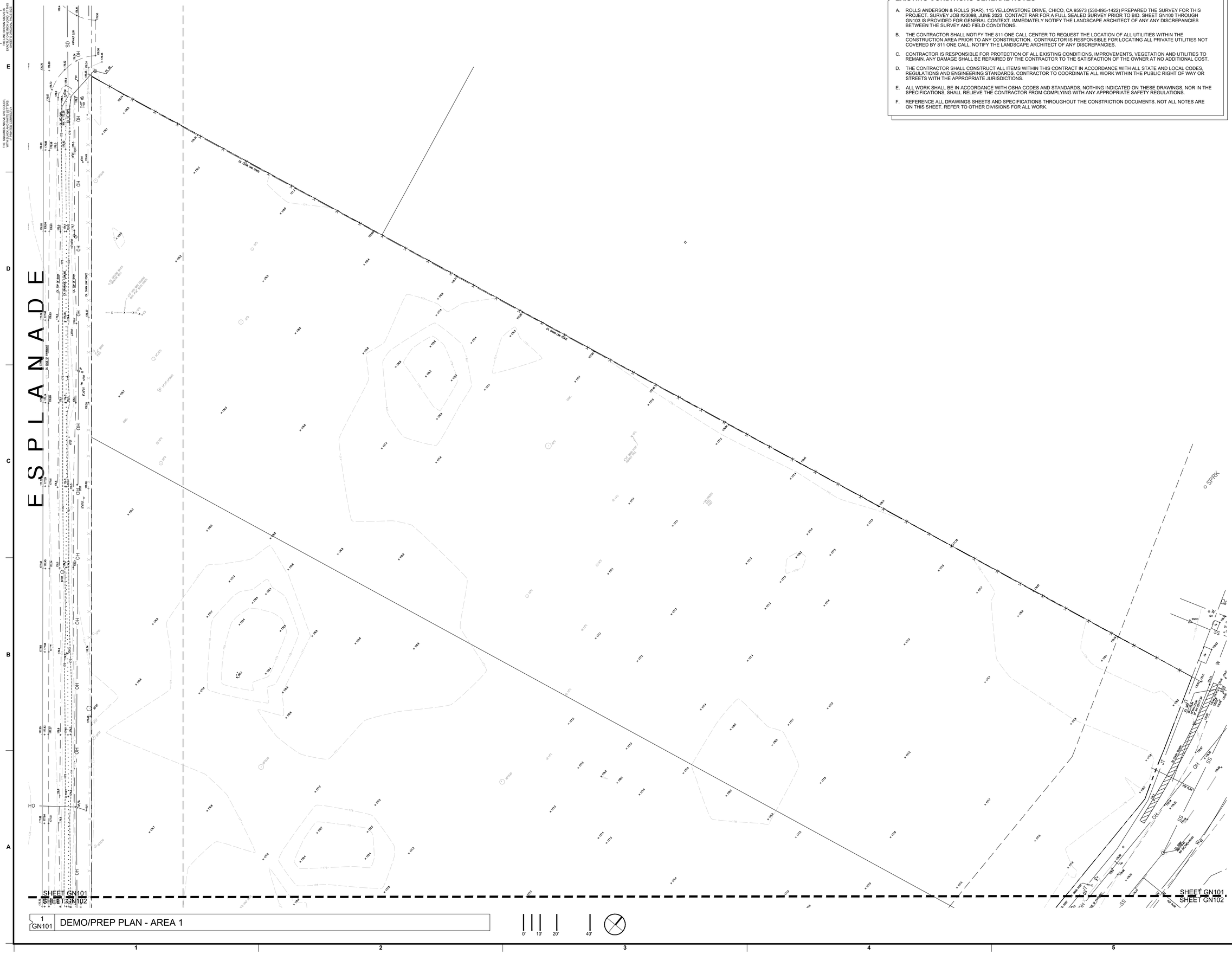

1 GN101 DEMO/PREP PLAN - AREA 1

0' 10' 20' 40'

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CHICO AREA RECREATION & PARK DISTRICT

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SURVEY AREA 1

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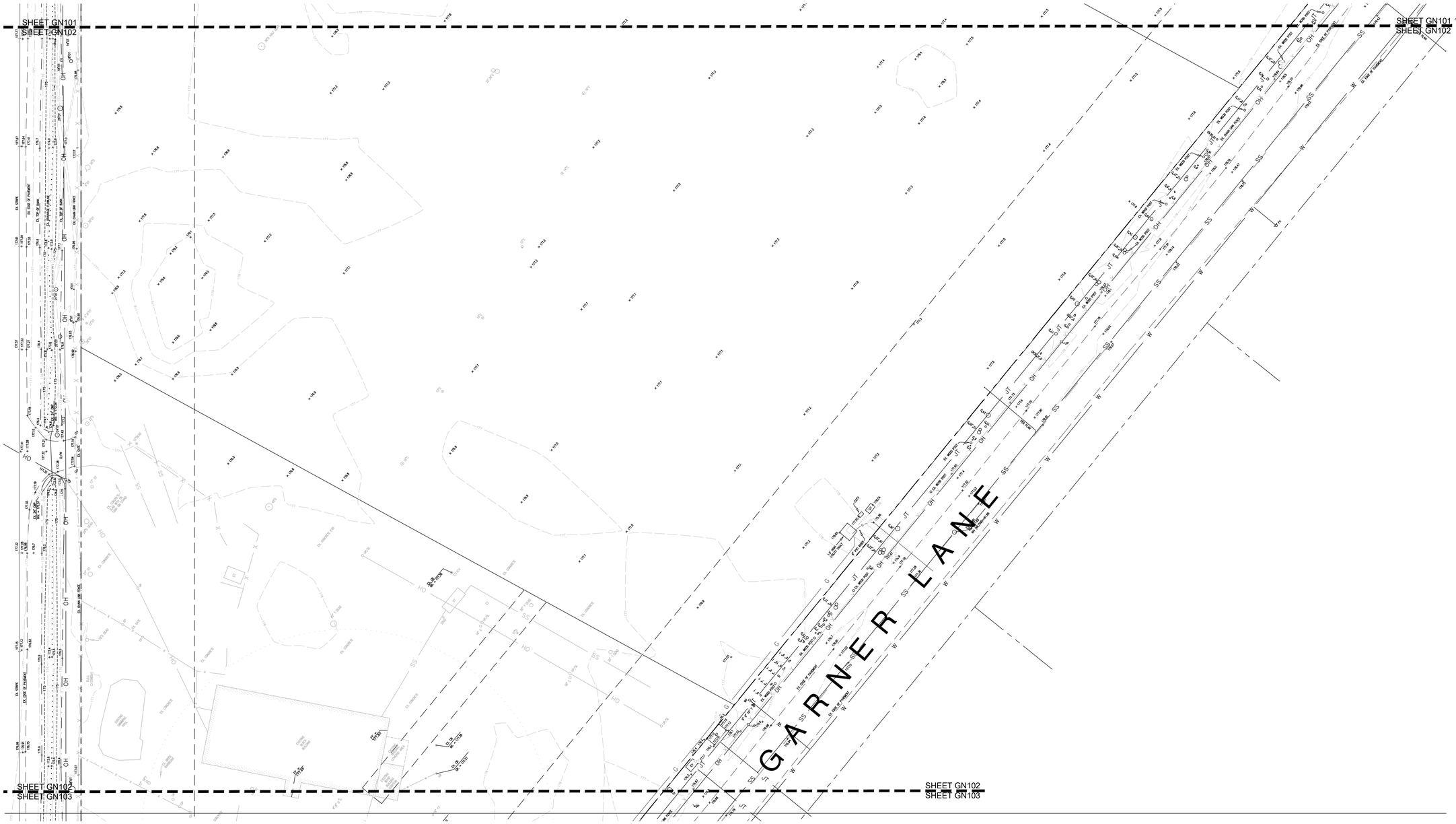

1 GN102 DEMO/PREP PLAN - AREA 2

0' 10' 20' 40'

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SURVEY AREA 2

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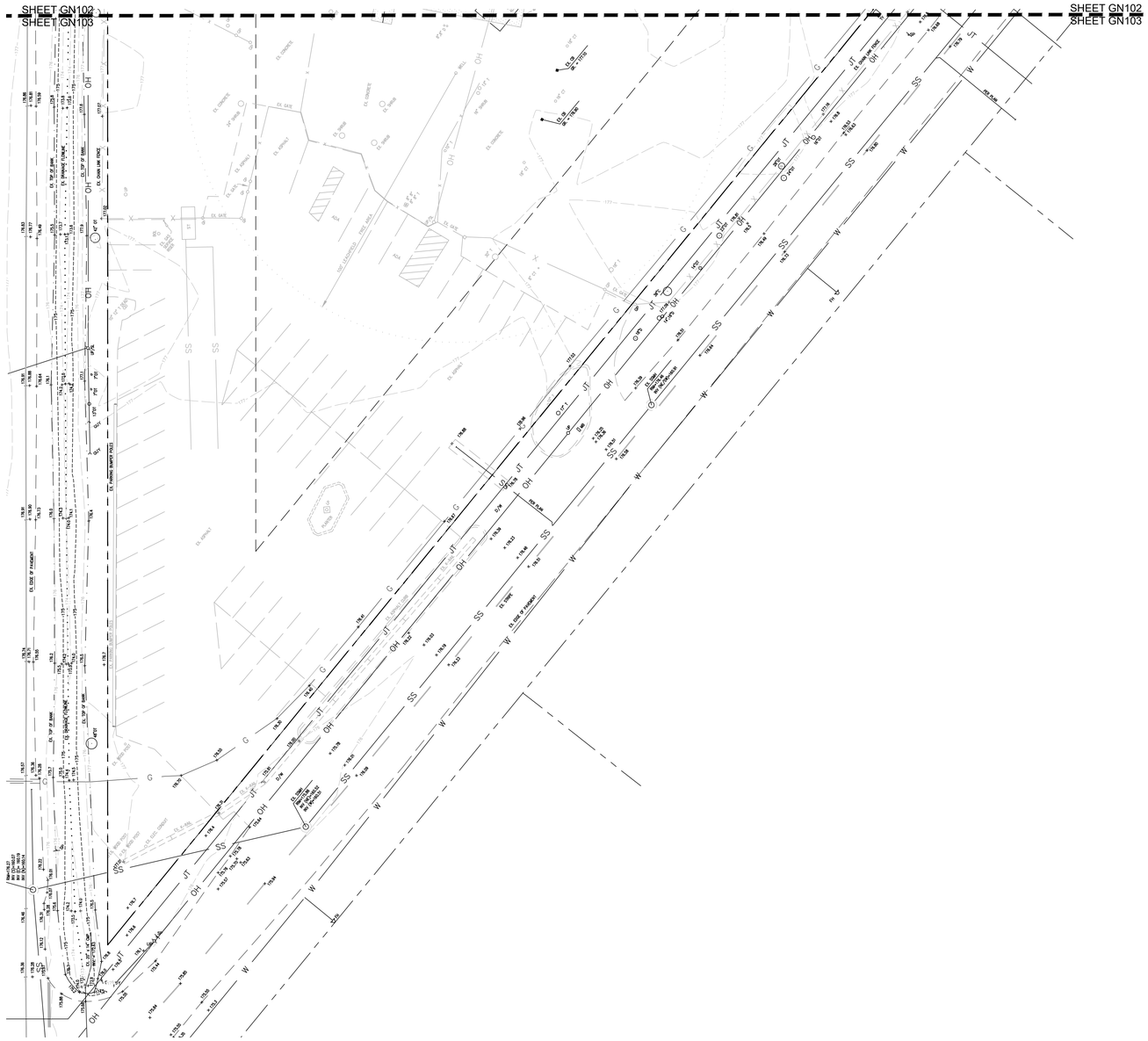

1 GN103 DEMO/PREP PLAN - AREA 3

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CHICO AREA RECREATION & PARK DISTRICT

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SURVEY AREA 3

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LEGEND

BOL	EXISTING BOLLARD
CATV	EXISTING CABLE TV BOX
D/W	EXISTING DRIVEWAY
PVC	EXISTING POLYVINYL CHLORIDE
EV	EXISTING ELECTRIC VAULT
FH	EXISTING FIRE HYDRANT
GP	EXISTING GATE POST
GUY	EXISTING GUY WIRE
GV	EXISTING GAS VALVE
HB	EXISTING HOSE BIB
ADA	EXISTING ADA ACCESSIBLE PARKING SPACE
ICV	EXISTING IRRIGATION CONTROL VALVE
UT PED	EXISTING UTILITY PEDESTAL
LP	EXISTING LIGHT POLE
MB	EXISTING MAIL BOX
UV	EXISTING UTILITY VAULT
SL	EXISTING STREET LIGHT
SP	EXISTING SIGN POST
SSCO	EXISTING SANITARY SEWER CLEANOUT
SSMH	EXISTING SANITARY SEWER MANHOLE
ST	EXISTING SEPTIC TANK
CMP	EXISTING CORRUGATED METAL PIPE
CB	EXISTING CATCH BASIN
SDDI	EXISTING STORM DRAIN DROP INLET
GR	EXISTING GRATE
INV	EXISTING PIPE INVERT ELEVATION
TV	EXISTING TELEPHONE VAULT
UP	EXISTING UTILITY POLE
WV	EXISTING WATER VALVE
FF	EXISTING FINISH FLOOR ELEVATION
× 176.88	EXISTING GROUND/SURFACE ELEVATION CITY OF CHICO VERTICAL DATUM
36" C	EXISTING CONIFER TREE WITH DIAMETER IN INCHES
13" D	EXISTING DECIDUOUS TREE WITH DIAMETER IN INCHES
48" OT	EXISTING OAK TREE WITH DIAMETER IN INCHES
9" T	EXISTING TREE WITH DIAMETER IN INCHES
	EXISTING PAINTED STRIPE
	EXISTING EDGE OF CONCRETE
	EXISTING EDGE OF ASPHALT CONCRETE
	EXISTING DRAINAGE FLOWLINE
X X	EXISTING FENCE
	EXISTING TOP OF BANK
	EXISTING EDGE OF BUILDING
S S	EXISTING STORM DRAIN PIPE
SS	EXISTING SEWER PIPE
JT	EXISTING JOINT UTILITY TRENCH
G	EXISTING GAS LINE
OH	EXISTING OVERHEAD UTILITY LINES
	EXISTING BOUNDARY LINE
	EXISTING INTERIOR PROPERTY LINE
	LIMITS OF WORK

NOTES:

1. REMOVE ALL CONCRETE, CURBS, SIDEWALKS, FENCES, PATHS, ASPHALT CONCRETE AND OTHER IMPROVEMENTS WITHIN THE LIMITS OF WORK.
2. REMOVE ALL LANDSCAPING WITHIN THE LIMITS OF WORK INCLUDING TREES, TREE STUMPS AND ROOTS, UNLESS SHOWN OTHERWISE.
3. REMOVE ALL EXISTING DOMESTIC AND FIRE WATER, STORM DRAIN AND SANITARY SEWER INFRASTRUCTURE WITHIN THE LIMITS OF WORK UNLESS SHOWN OTHERWISE.
4. ALL EXISTING DRY UTILITIES WITHIN THE LIMITS OF WORK SHALL BE REMOVED UNLESS SHOWN OTHERWISE.
5. ALL EXISTING LANDSCAPE IRRIGATION INFRASTRUCTURE WITHIN THE LIMITS OF WORK SHALL BE REMOVED UNLESS SHOWN OTHERWISE ON THE LANDSCAPE PLANS.
6. ALL UTILITIES WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE PROTECTED IN PLACE UNLESS SHOWN OTHERWISE.
7. ALL UNDERGROUND UTILITIES WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE PROTECTED IN PLACE UNLESS SHOWN OTHERWISE.
8. THE LIMITS OF DEMOLITION OF IMPROVEMENTS WITHIN THE CITY OF CHICO RIGHT-OF-WAY SHALL BE DETERMINED BY THE CITY DURING CONSTRUCTION.
9. SEE ARCHITECTURE PLANS FOR ADDITIONAL DEMOLITION INFORMATION.

DEMOLITION NOTES

1. EXISTING BUILDING TO BE REMOVED
2. EXISTING WELL TO BE ABANDONED PER BUTTE COUNTY ENVIRONMENTAL HEALTH REQUIREMENTS
3. EXISTING SEPTIC TANK AND LEACH LINES TO BE REMOVED PER BUTTE COUNTY ENVIRONMENTAL HEALTH REQUIREMENTS
4. EXISTING OVERHEAD POWER LINES AND UTILITY POLES TO BE REMOVED
5. EXISTING FENCING, POSTS AND GATES TO BE REMOVED
6. EXISTING STORM DRAIN PIPE AND STRUCTURES TO BE REMOVED
7. EXISTING TREES AND SHRUBS TO BE REMOVED
8. EXISTING CONCRETE TO BE REMOVED
9. EXISTING PARKING LOT PAVEMENT STRUCTURAL SECTION AND CURBS TO BE REMOVED
10. EXISTING MISCELLANEOUS ITEMS TO BE REMOVED
11. EXISTING UTILITIES TO BE PROTECTED IN PLACE

GENERAL NOTES

1. LOCATIONS AND DEPTHS OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXISTENCE, LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO ORDERING MATERIALS OR BEGINNING SITE CONSTRUCTION. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA) AT 811 AT LEAST 3 DAYS PRIOR TO CONSTRUCTION.
2. THE TOPOGRAPHIC SURVEY DOES NOT INCLUDE THE EXISTING LANDSCAPE IRRIGATION SYSTEM.
3. CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FROM THE CITY OF CHICO PRIOR TO COMMENCING ANY CONSTRUCTION WITHIN THE RIGHT-OF-WAY.

TREE PRESERVATION NOTES

1. THE NATURAL GRADE AROUND THE DRIPLINE OF EXISTING TREES SHALL REMAIN UNDISTURBED DURING AND AFTER CONSTRUCTION UNLESS OTHERWISE APPROVED BY THE DISTRICT. THE DRIPLINE OF A TREE IS A PROJECTED RADIUS ON THE GROUND OF THE TREE CANOPY.
2. PRIOR TO BEGINNING CONSTRUCTION, EXISTING TREES SHALL BE PRUNED TO REMOVE LIMBS WHICH MAY BE DEAD OR MAY BECOME DAMAGED DURING CONSTRUCTION.
3. ANY EXCAVATION WITHIN THE TREE DRIPLINE SHALL BE BY HAND TO MINIMIZE IMPACT ON ROOTS. ALL EXCAVATION WITHIN THE DRIPLINE SHALL BE SUPERVISED BY THE DISTRICT.
4. ROOTS 3/4" OR GREATER IN SIZE ENCOUNTERED DURING EXCAVATION SHALL BE CLEANLY CUT AND TREATED WITH A SEALING AGENT TO REDUCE LOSS OF MOISTURE TO THE TREE. ROOTS GREATER THAN 1-1/2" SHALL BE PRESERVED AND PROTECTED AT THE DIRECTION OF THE DISTRICT.
5. CONSTRUCTION VEHICLES, EQUIPMENT, OR MATERIALS SHALL NOT BE PARKED OR STORED WITHIN THE TREE DRIPLINE.
6. ALL CONSTRUCTION WASTES, INCLUDING BUT NOT LIMITED TO BUILDING MATERIAL DEBRIS, ROOFING MATERIALS, CLEANING OF CEMENT TRUCKS, CHEMICALS/ADHESIVES/SOLVENTS, ETC., SHALL BE STORED OR DISPOSED OF NO CLOSER THAN 50 FEET FROM ANY TREE DRIPLINE.

SCALE 1" = 30'

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

ESPLANADE

GARNER LANE

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RAR PROJECT NO: 23098

REGISTERED PROFESSIONAL ENGINEER — CIVIL — State of California

PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23098
Issue	100% CD
Date	2025-01-23

CONSTRUCTION DOCUMENTS
DEMOLITION PLAN
C1

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LEGEND

BOL	EXISTING BOLLARD
CATV	EXISTING CABLE TV BOX
D/W	EXISTING DRIVEWAY
PVC	EXISTING POLYVINYL CHLORIDE
EV	EXISTING ELECTRIC VAULT
FH	EXISTING FIRE HYDRANT
GP	EXISTING GATE POST
GUY	EXISTING GUY WIRE
GV	EXISTING GAS VALVE
HB	EXISTING HOSE BIB
ADA	EXISTING ADA ACCESSIBLE PARKING SPACE
ICV	EXISTING IRRIGATION CONTROL VALVE
UT PED	EXISTING UTILITY PEDESTAL
LP	EXISTING LIGHT POLE
MB	EXISTING MAIL BOX
UV	EXISTING UTILITY VAULT
SL	EXISTING STREET LIGHT
SP	EXISTING SIGN POST
SSCO	EXISTING SANITARY SEWER CLEANOUT
SSMH	EXISTING SANITARY SEWER MANHOLE
ST	EXISTING SEPTIC TANK
CMP	EXISTING CORRUGATED METAL PIPE
CB	EXISTING CATCH BASIN
SDDI	EXISTING STORM DRAIN DROP INLET
GR	EXISTING GRATE

INV	EXISTING PIPE INVERT ELEVATION
TV	EXISTING TELEPHONE VAULT
UP	EXISTING UTILITY POLE
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X X	EXISTING FENCE
	EXISTING TOP OF BANK
	EXISTING EDGE OF BUILDING
SD SD	EXISTING STORM DRAIN PIPE
SS SS	EXISTING SEWER PIPE
JT JT	EXISTING JOINT UTILITY TRENCH
G G	EXISTING GAS LINE
OH OH	EXISTING OVERHEAD UTILITY LINES
	EXISTING BOUNDARY LINE
	EXISTING INTERIOR PROPERTY LINE

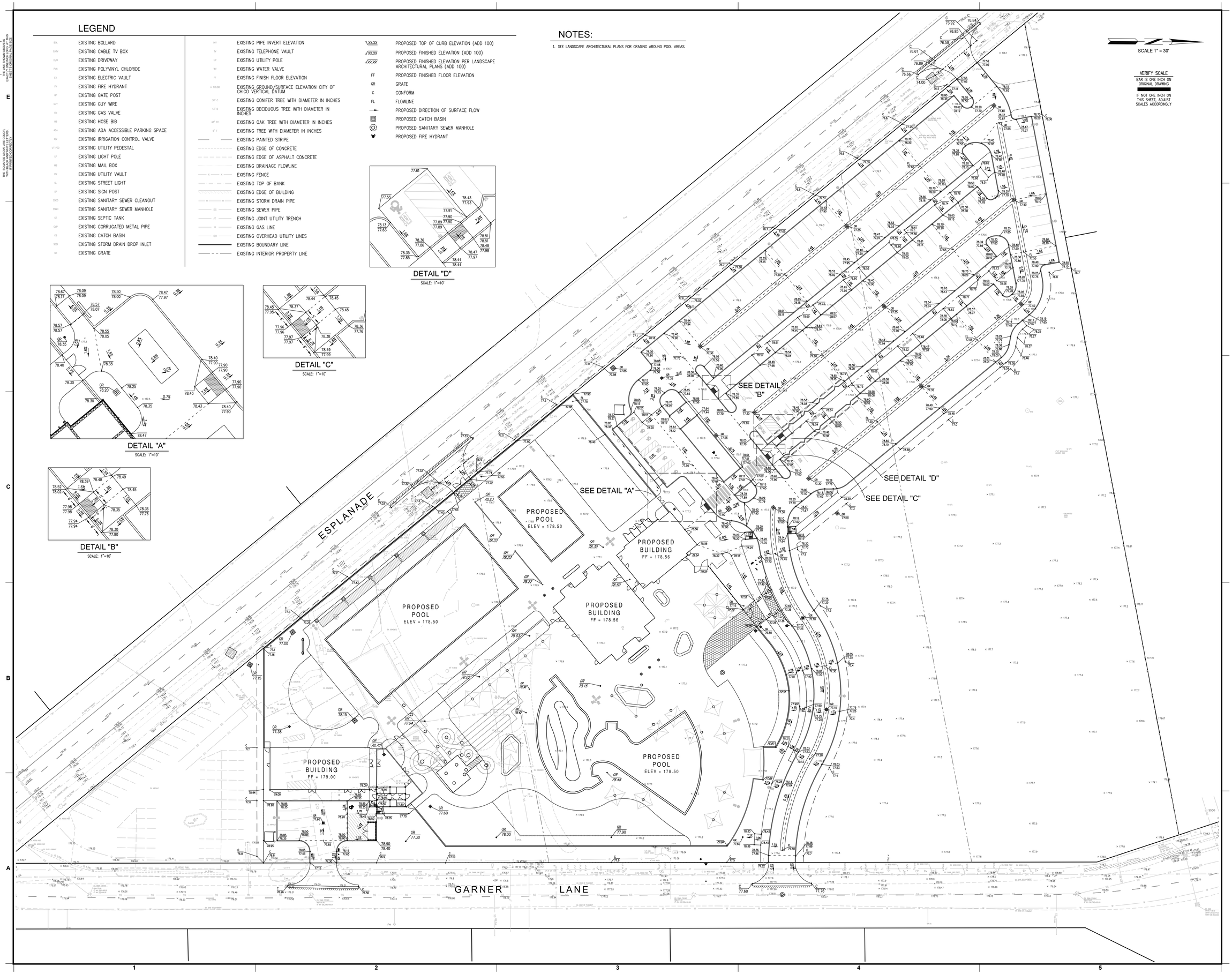
XX.XX	PROPOSED TOP OF CURB ELEVATION (ADD 100)
XX.XX	PROPOSED FINISHED ELEVATION (ADD 100)
XX.XX	PROPOSED FINISHED ELEVATION PER LANDSCAPE ARCHITECTURAL PLANS (ADD 100)
FF	PROPOSED FINISHED FLOOR ELEVATION
GR	GRATE
C	CONFORM
FL	FLOWLINE
	PROPOSED DIRECTION OF SURFACE FLOW
	PROPOSED CATCH BASIN
	PROPOSED SANITARY SEWER MANHOLE
	PROPOSED FIRE HYDRANT

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL SCALE

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, AND NUMBERS

NOTES:

1. SEE LANDSCAPE ARCHITECTURAL PLANS FOR GRADING AROUND POOL AREAS.



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CHICO AQUATIC AND RECREATION FACILITY

CHICO AREA RECREATION & PARK DISTRICT

Project Number	23098
Issue	100% CD
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CONSTRUCTION DOCUMENTS
GRADING PLAN

C2

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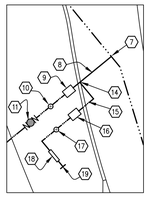
STORM DRAIN CONSTRUCTION NOTES

1. INSTALL COOK CONCRETE 18" X 18" CATCH BASIN OR APPROVED EQUAL, GR=177.10, 12" INV=174.55
2. INSTALL ±86 L.F. 12" DIA. HDPE S.D. PIPE, S=0.0017 FT/FT
3. INSTALL COOK CONCRETE 18" X 18" CATCH BASIN OR APPROVED EQUAL, GR=177.10, 12" INV=174.40
4. INSTALL ±104 L.F. 12" DIA. HDPE S.D. PIPE, S=0.0018 FT/FT
5. INSTALL COOK CONCRETE 18" X 18" CATCH BASIN OR APPROVED EQUAL, GR=177.35, 10" INV=174.60
6. INSTALL ±46 L.F. 10" DIA. HDPE S.D. PIPE, S=0.0028 FT/FT
7. INSTALL COOK CONCRETE 24" X 24" CATCH BASIN OR APPROVED EQUAL, GR=177.40, 12" INV=175.10
8. INSTALL ±174 L.F 12" DIA. HDPE S.D. PIPE, S=0.0017 FT/FT
9. INSTALL COOK CONCRETE 24" X 24" CATCH BASIN OR APPROVED EQUAL, GR=177.35, 12" INV=174.80
10. INSTALL ±173 L.F. 12" DIA. HDPE S.D. PIPE, S=0.0020 FT/FT
11. INSTALL COOK CONCRETE 24" X 24" CATCH BASIN OR APPROVED EQUAL, GR=177.30, 12" INV=174.47, 10" INV=174.47
12. INSTALL ±78 L.F. 12" DIA. HDPE S.D. PIPE, S=0.0017 FT/FT
13. INSTALL COOK CONCRETE 18" X 18" CATCH BASIN OR APPROVED EQUAL, GR=177.25, 10" INV=174.50
14. INSTALL ±41 L.F. 10" DIA. HDPE S.D. PIPE, S=0.0041 FT/FT
15. INSTALL COOK CONCRETE 24" X 24" CATCH BASIN OR APPROVED EQUAL, GR=177.40, 12" INV=174.85
16. INSTALL ±153 L.F. 12" DIA. HDPE S.D. PIPE, S=0.0017 FT/FT
17. INSTALL COOK CONCRETE 24" X 24" CATCH BASIN OR APPROVED EQUAL, GR=177.35, 12" INV=174.59
18. INSTALL ±153 L.F. 12" DIA. HDPE S.D. PIPE, S=0.0017 FT/FT
19. INSTALL COOK CONCRETE 24" X 24" CATCH BASIN OR APPROVED EQUAL, GR=177.30, 18" INV=174.33, 12" INV=174.33, 10" INV=174.33
20. INSTALL ±78 L.F. 18" DIA. HDPE S.D. PIPE, S=0.0010 FT/FT
21. INSTALL COOK CONCRETE 24" X 24" CATCH BASIN OR APPROVED EQUAL, GR=177.40, 12" INV=174.70
22. INSTALL ±118 L.F. 12" DIA. HDPE S.D. PIPE, S=0.0017 FT/FT
23. INSTALL COOK CONCRETE 24" X 24" CATCH BASIN OR APPROVED EQUAL, GR=177.35, 12" INV=174.50
24. INSTALL ±133 L.F. 12" DIA. HDPE S.D. PIPE, S=0.0018 FT/FT
25. INSTALL COOK CONCRETE 36" X 36" CATCH BASIN OR APPROVED EQUAL, GR=177.30, 24" INV=174.25, 18" INV=174.25, 12" INV=174.25
26. INSTALL ±42 L.F. 24" DIA. HDPE S.D. PIPE, S=0.0010 FT/FT
27. INSTALL COOK CONCRETE 36" X 36" CATCH BASIN OR APPROVED EQUAL, GR=177.30, 24" INV=174.21, 12" INV=174.21
28. INSTALL ±47 L.F. 24" DIA. HDPE S.D. PIPE, S=0.0011 FT/FT
29. INSTALL COOK CONCRETE 36" X 36" CATCH BASIN OR APPROVED EQUAL, GR=177.80, 24" INV=174.16
30. INSTALL ±113 L.F. 24" DIA. PERFORATED HDPE S.D. PIPE IN TRENCH AND ±53 L.F. 24" DIA. HDPE STORM DRAIN PIPE, S=0.0011 FT/FT, SEE DETAIL ON DRAWING C6
31. INSTALL S.D. INFILTRATION TRENCH, L=113', W=24', D=7', SEE DETAIL ON DRAWING C6
32. INSTALL COOK CONCRETE 36" X 36" CATCH BASIN OR APPROVED EQUAL, GR=177.85, 24" INV=173.98
33. INSTALL ±74 L.F. 24" DIA. HDPE S.D. PIPE, S=0.0011 FT/FT
34. INSTALL ±7 L.F. 8" DIA. HDPE S.D. PIPE STUB, S=0.0030 FT/FT, DOWNSTREAM 24" INV=173.90
35. INSTALL ±81 L.F. 24" DIA. HDPE S.D. PIPE, S=0.0011 FT/FT
36. INSTALL 12" DIA. NDS LANDSCAPE CATCH BASIN, GR=177.53, 24" INV=173.81 WITH A 24" X 12" REDUCER
37. INSTALL ±223 L.F. 24" DIA. HDPE S.D. PIPE, S=0.0011 FT/FT
38. INSTALL COOK CONCRETE 36" X 36" CATCH BASIN OR APPROVED EQUAL, GR=177.00, 24" INV=173.56
39. INSTALL ±99 L.F. 24" DIA. HDPE S.D. PIPE, S=0.0011 FT/FT
40. INSTALL 10" DIA. NDS CATCH BASIN, GR=178.50, 8" INV=175.70
41. INSTALL ±117 L.F. 8" DIA. HDPE S.D. PIPE, S=0.0070 FT/FT
42. INSTALL COOK CONCRETE 18" X 18" CATCH BASIN OR APPROVED EQUAL, GR=176.80, 10" INV=174.75
43. INSTALL ±106 L.F. 12" DIA. HDPE S.D. PIPE, S=0.0019 FT/FT
44. INSTALL 8" X 12" X 12" DIA. HDPE S.D. PIPE TEE, 12" INV=174.55, 8" INV=174.88
45. INSTALL ±57 L.F. 12" DIA. HDPE S.D. PIPE, S=0.0019 FT/FT
46. INSTALL 12" DIA. NDS CATCH BASIN OR APPROVED EQUAL, GR=178.15, 12" INV=174.44
47. INSTALL ±157 L.F. 12" DIA. HDPE S.D. PIPE, S=0.0020 FT/FT
48. INSTALL 10" DIA. NDS CATCH BASIN OR APPROVED EQUAL, GR=178.60, 8" INV=175.70
49. INSTALL ±73 L.F. 8" DIA. HDPE S.D. PIPE, S=0.0062 FT/FT
50. INSTALL 12" DIA. NDS CATCH BASIN OR APPROVED EQUAL, GR=177.58, 12" INV=174.12
51. INSTALL ±64 L.F. 12" DIA. HPDE S.D. PIPE, S=0.0027 FT/FT
52. INSTALL 12" DIA. NDS CATCH BASIN OR APPROVED EQUAL, GR=177.94, 12" INV=173.96
53. INSTALL ±48 L.F. 12" DIA. HDPE S.D. PIPE, S=0.0027 FT/FT
54. INSTALL 12" DIA. NDS LANDSCAPE CATCH BASIN, GR=177.50, 12" INV=174.50,
55. INSTALL ±120 L.F. 12" DIA. HDPE S.D. PIPE, S=0.0017 FT/FT
56. INSTALL 12" DIA. NDS LANDSCAPE CATCH BASIN, GR=177.90, 12" INV=174.30
57. INSTALL ±105 L.F. 12" DIA. HDPE S.D. PIPE, S=0.0017 FT/FT
58. INSTALL 12" DIA. NDS LANSCAPE CATCH BASIN, GR=178.00, 12" INV=174.12
59. INSTALL ±72 L.F. 12" DIA. HDPE S.D. PIPE, S=0.0021 FT/FT
60. INSTALL COOK CONCRETE 18" X 18" CATCH BASIN OR APPROVED EQUAL, GR=177.60, 10" INV=174.60
61. INSTALL ±81 L.F. 10" DIA. HDPE S.D. PIPE, S=0.0044 FT/FT
62. INSTALL 12" DIA. NDS LANDSCAPE CATCH BASIN, GR=177.30, 10" INV=174.30
63. INSTALL ±28 L.F. 10" DIA. HDPE S.D. PIPE, S=0.0021 FT/FT, DOWNSTREAM INV=174.24
64. INSTALL ±23 L.F. 10" DIA. HDPE S.D. PIPE, S=0.0021 FT/FT
65. INSTALL COOK CONCRETE 18" X 18" CATCH BASIN OR APPROVED EQUAL, GR=177.60, 12" INV=173.97, 10" INV=174.19
66. INSTALL ±63 L.F. 12" DIA. HDPE S.D. PIPE, S=0.0024 FT/FT
67. INSTALL COOK CONCRETE 18" X 18" CATCH BASIN OR APPROVED EQUAL, GR=178.70, 12" INV=173.82
68. INSTALL ±41 L.F. 12" DIA. HDPE S.D. PIPE, S=0.0089 FT/FT
69. INSTALL COOK CONCRETE 12" X 12" CATCH BASIN OR APPROVED EQUAL, GR=177.38, 10" INV=174.20
70. INSTALL ±29 L.F. 10" DIA. HDPE S.D. PIPE, S=0.0030 FT/FT, DOWNSTREAM 24" INV=173.35
71. INSTALL COOK CONCRETE 36" X 36" CATCH BASIN OR APPROVED EQUAL, GR=178.15, 24" INV=173.45, 12" INV=173.45
72. INSTALL ±71 L.F. 24" DIA. PERFORATED HDPE S.D. PIPE IN TRENCH AND ±42 L.F. 24" DIA. HDPE S.D. PIPE, S=0.0019 FT/FT, SEE DETAIL ON DRAWING C6
73. INSTALL S.D. INFILTRATION TRENCH, L=71', W=35', D=8', SEE DETAIL ON DRAWING C6
74. INSTALL COOK CONCRETE 36" X 36" CATCH BASIN OR APPROVED EQUAL, GR=177.15, 24" INV=173.24
75. INSTAL FT/FTL ±20 L.F. 24" DIA. HDPE S.D. PIPE WITH CONCRETE FLARED END SECTION, S=0.0019, DOWNSTREAM INV=173.20
76. INSTALL DOWNSPOUT CATCH BASIN WITH ±140 L.F. 8" DIA. HDPE S.D. PIPE, S=0.0030 FT/FT, GR=178.56, 10" INV=175.80, DOWNSTREAM 24" INV=174.11 & 8" INV=175.38
77. INSTALL 10" DIA. NDS CATCH BASIN, GR=178.05, 8" INV=175.50
78. INSTALL 10" DIA. NDS CATCH BASIN, GR=178.30, 8" INV=175.73
79. INSTALL COOK CONCRETE 12" X 12" CATCH BASIN, GR=178.20, 8" INV=175.60
80. INSTALL ±32 L.F. 8" DIA. HDPE S.D. PIPE, S=0.0041 FT/FT, DOWNSTREAM 8" INV=175.47
81. INSTALL DOWNSPOUT CATCH BASIN WITH ±8 L.F. 8" DIA. HDPE S.D. PIPE, S=0.0250 FT/FT, GR=178.56, 8" INV=175.80
82. INSTALL DOWNSPOUT CATCH BASIN WITH ±20 L.F. 8" DIA. HDPE S.D. PIPE, S=0.0120 FT/FT, GR=178.56, 8" INV=175.80, DOWNSTREAM 8" INV=175.56
83. INSTALL DOWNSPOUT CATCH BASIN WITH ±20 L.F. 8" DIA. HDPE S.D. PIPE, S=0.0070 FT/FT, GR=178.56, 8" INV=175.80, DOWNSTREAM 8" INV=175.66
84. INSTALL DOWNSPOUT CATCH BASIN WITH ±17 L.F. 8" DIA. HDPE S.D. PIPE, S=0.0030 FT/FT, GR=178.47, 8" INV=175.80, DOWNSTREAM 8" INV=175.75
85. INSTALL DOWNSPOUT CATCH BASIN WITH ±4 L.F. 8" DIA. HDPE S.D. PIPE, S=0.0075 FT/FT, GR=178.52, 8" INV=175.80, DOWNSTREAM 8" INV=175.77
86. INSTALL DOWNSPOUT CATCH BASIN WITH ±56 L.F. 8" DIA. HDPE S.D. PIPE, S=0.0045 FT/FT, GR=178.56, 8"INV=175.80, DOWNSTREAM 8" INV=175.55
87. INSTALL DOWNSPOUT CATCH BASIN WITH ±5 L.F. 8" DIA. HDPE S.D. PIPE, S=0.0200 FT/FT, GR=178.56, 8" INV=175.80, DOWNSTREAM 8" INV=175.70
88. INSTALL DOWNSPOUT CATCH BASIN WITH ±51 L.F. 8" DIA. HDPE S.D. PIPE, S=0.0369 FT/FT, GR=178.56, 8" INV=175.80, DOWNSTREAM 8" INV=175.62
89. INSTALL DOWNSPOUT CATCH BASIN WITH ±4 L.F. 8" DIA. HDPE S.D. PIPE, S=0.0325 FT/FT, GR=178.56, 8" INV=175.80, DOWNSTREAM 8" INV=175.67
90. INSTALL DOWNSPOUT CATCH BASIN WITH ±4 L.F. 8" DIA. HDPE S.D. PIPE, S=0.0550 FT/FT, GR=178.56, 8" INV=175.80, DOWNSTREAM 8" INV=175.58
91. INSTALL DOWNSPOUT CATCH BASIN WITH ±25 L.F. 8" DIA. HDPE S.D. PIPE, S=0.0256 FT/FT, GR=178.56, 8" INV=175.80, DOWNSTREAM 8" INV=175.16
92. INSTALL DOWNSPOUT CATCH BASIN WITH ±26 L.F. 8" HDPE S.D. PIPE, S=0.0404 FT/FT, GR=178.56, 8" INV=175.80, DOWNSTREAM 12" INV=174.42 & 8" INV=174.75
93. INSTALL DOWNSPOUT CATCH BASIN WITH ±12 L.F. 8" HDPE S.D. PIPE, S=0.0900 FT/FT, GR=178.56, 8" INV=175.80, DOWNSTREAM 12" INV=174.39 & 8" INV=174.72
94. INSTALL DOWNSPOUT CATCH BASIN WITH ±12 L.F. 8" HDPE S.D. PIPE, S=0.0933 FT/FT, GR=178.56, 8" INV=175.80, DOWNSTREAM 12" INV=174.35 & 8" INV=174.68
95. INSTALL DOWNSPOUT CATCH BASIN WITH ±12 L.F. 8" HDPE S.D. PIPE, S=0.0983 FT/FT, GR=178.56, 8" INV=175.80, DOWNSTREAM 12" INV=174.29 & 8" INV=174.62
96. INSTALL 12" DIA. NDS CATCH BASIN WITH ±7 L.F. 12" HDPE S.D. PIPE, S=0.0143 FT/FT, GR=178.03, 12" INV=174.25, 8" INV=175.25
97. INSTALL DOWNSPOUT CATCH BASIN WITH ±132 L.F. 8" HDPE S.D. PIPE, S=0.0073 FT/FT, GR=178.56, DOWNSTREAM 8" INV=174.84, 24" INV=173.51
98. POINT OF CONNECTION TO PLUMBING PLANS, INSTALL ±19 L.F. 6" DIA. HDPE S.D. PIPE, S=0.0742 FT/FT, UPSTREAM 6" INV=176.33, DOWNSTREAM 24" INV=173.44 & 6" INV=174.94
99. INSTALL 10" DIA. NDS LANDSCAPE CATCH BASIN, GR=176.80, 8" INV=174.80
100. INSTALL ±6 L.F. 8" DIA. HDPE S.D. PIPE, S=0.0067 FT/FT
101. INSTALL 10" DIA. NDS CATCH BASIN, GR=178.56, 8" INV=174.55
102. INSTALL ±52 L.F. 8" DIA. HDPE S.D. PIPE, S=0.0033 FT/FT
103. INSTALL ±41 L.F. 18" DIA. HDPE S.D. PIPE, S=0.0024 FT/FT
104. INSTALL ±50 L.F. 24" CORRUGATED METAL PIPE, S=0.0016 FT/FT, UPSTREAM INV=174.00, DOWNSTREAM INV=173.92
105. INSTALL ±50 L.F. 24" CORRUGATED METAL PIPE, S=0.0020 FT/FT, UPSTREAM INV=178.70, DOWNSTREAM INV=178.60
106. INSTALL OBSERVATION PORT IN LEACH TRENCH, SEE DETAIL ON DRAWING C6
107. INSTALL 10" DIA. NDS CATCH BASIN, GR=178.53, 8" INV=175.80
108. INSTALL ±107 L.F. 8" DIA. HDPE S.D. PIPE, S=0.0100 FT/FT, DOWNSTREAM INV=175.77
109. INSTALL 10" DIA. NDS CATCH BASIN, GR=178.38, 8" INV=175.56
110. INSTALL COOK CONCRETE 24" X 24" CATCH BASIN OR APPROVED EQUAL, GR=177.00, 18" INV=174.35
111. INSTALL 10" DIA. NDS CATCH BASIN, GR=177.15, 8" INV=174.87
112. INSTALL ±24 L.F. 8" DIA. HDPE S.D. PIPE, S=0.0030 FT/FT
113. INSTALL 12" THICK 8' X 8' AREA OF CLASS NO. 3 ROCK SLOPE PROTECTION ON CLASS 8 FABRIC

WATER CONSTRUCTION NOTES

1. POINT OF CONNECTION TO EXISTING CAL WATER MAIN, CONTRACTOR SHALL VERIFY PIPE LOCATION, DEPTH AND SIZE PRIOR TO ORDERING MATERIALS OR COMMENCING CONSTRUCTION
2. INSTALL ±432 L.F. 8" DIA. CAL WATER MAIN PER CAL WATER STANDARDS
3. INSTALL ±3 L.F. 8" DIA. CAL WATER MAIN PER CAL WATER STANDARDS
4. INSTALL 8" DIA. GATE VALVE AND VALVE BOX PER CAL WATER STANDARDS
5. INSTALL FIRE HYDRANT PER CAL WATER STANDARDS
6. INSTALL ±40 L.F. 8" DIA. CAL WATER MAIN PER CAL WATER STANDARDS
7. DOMESTIC WATER POINT OF CONNECTION TO PROPOSED CAL WATER MAIN WITH 8" X 8" X 4" TEE
8. INSTALL ±8 L.F. 4" DIA. SCH. 40 PVC DOMESTIC WATER SERVICE PER CAL WATER REQUIREMENTS
9. INSTALL 3" WATER METER AND BOX PER CAL WATER PLANS AND REQUIREMENTS
10. INSTALL 3" GATE VALVE AND VALVE BOX
11. INSTALL 3" ZURN WILKINS MODEL 375 OR EQUIVALENT REDUCED PRESSURE PRINCIPAL ASSEMBLY PER CAL WATER REQUIREMENTS
12. INSTALL ±82 L.F. 3" DIA. SCH. 40 PVC DOMESTIC WATER SERVICE
13. POINT OF CONNECTION TO BUILDING, SEE PLUMBING PLANS FOR ADDITIONAL INFORMATION
14. IRRIGATION WATER SERVICE POINT OF CONNECTION WITH 4" X 4" X 2" TEE
15. INSTALL ±23 L.F. 2" DIA. IRRIGATION WATER SERVICE
16. INSTALL 2" WATER METER AND BOX PER CAL WATER PLANS AND REQUIREMENTS
17. INSTALL 2" DIA. GATE VALVE AND VALVE BOX PER CAL WATER REQUIREMENTS
18. INSTALL 2" ZURN WILKINS MODEL 975XL2 OR EQUIVALENT REDUCED PRESSURE PRINCIPAL ASSEMBLY PER CAL WATER REQUIREMENTS
19. POINT OF CONNECTION TO LANDSCAPE IRRIGATION, SEE LANDSCAPE PLANS FOR ADDITIONAL INFORMATION
20. INSTALL ±45 L.F. 4" DIA. SCH. 40 PVC DOMESTIC WATER SERVICE
21. INSTALL ±54 L.F. 4" DIA. SCH. 40 PVC DOMESTIC WATER SERVICE



DETAIL "F"
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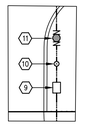

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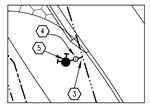

DETAIL "E"
SCALE: 1"=10'

SCALE 1" = 30'

VERIFY SCALE
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SANITARY SEWER CONSTRUCTION NOTES

1. POINT OF CONNECTION TO EXISTING SANITARY SEWER MAIN, CONTRACTOR SHALL VERIFY EXISTING SEWER PIPE LOCATION, SIZE AND ELEVATION PRIOR TO ORDERING MATERIALS OR COMMENCING CONSTRUCTION, INSTALL CITY OF CHICO S-11 SANITARY SEWER DROP MANHOLE, RIM=178.03, EX 8" INV=162.04, 6" INV=169.60
2. INSTALL ±131 L.F. 6" SANITARY SEWER PIPE, S=0.0100 FT/FT
3. INSTALL SANITARY SEWER MANHOLE PER CITY OF CHICO STD. S-10, RIM=178.20, 6" INV IN=171.00, 6" INV OUT=170.90
4. INSTALL ±90 L.F. 6" SANITARY SEWER PIPE, S=0.0102 FT/FT
5. INSTALL SANITARY SEWER MANHOLE PER CITY OF CHICO STD. S-10, RIM=177.80, 4" INV IN=172.17, 6" INV IN=172.00, 6" INV OUT=171.90
6. INSTALL ±84 L.F. 6" DIA. SANITARY SEWER LATERAL, S=0.0186 FT/FT
7. POINT OF CONNECTION TO PLUMBING PLANS, 6" INV=173.56, SEE PLUMBING PLANS FOR ADDITIONAL INFORMATION
8. INSTALL ±90 L.F. 4" DIA. SANITARY SEWER PIPE, S=0.0258 FT/FT
9. POINT OF CONNECTION TO BUILDING, 4" INV=174.50, SEE PLUMBING PLANS FOR ADDITIONAL INFORMATION
10. CONNECT TO EXISTING SEWER MANHOLE AND INSTALL DROP INLET CONNECTION, EX. RIM=176.46, EX 8" INV=160.91, 8" INV=170.35
11. INSTALL ±87 L.F. 8" DIA. SANITARY SEWER PIPE, S=0.0300 FT/FT
12. POINT OF CONNECTION TO BUILDING, 8" INV=172.95, SEE PLUMBING PLANS FOR ADDITIONAL INFORMATION

GENERAL NOTES

1. LOCATIONS AND DEPTHS OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXISTENCE, LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO ORDERING MATERIALS OR BEGINNING SITE CONSTRUCTION. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA) AT 811 AT LEAST 3 DAYS PRIOR TO CONSTRUCTION.
2. SEE ARCHITECTURAL PLANS FOR ADDITIONAL STRIPING, PAVEMENT MARKING, AND SIGNAGE LOCATIONS AND DETAILS.
3. SEE SHEET C1 AND ARCHITECTURE PLANS FOR DEMOLITION OF EXISTING FACILITIES.
4. EXISTING SURFACE UTILITIES ARE TO BE ADJUSTED TO FINISHED GRADE.

STORM DRAIN NOTES

1. UNLESS OTHERWISE NOTED, STORM DRAIN AREA DRAINS SHALL BE COOK CONCRETE PRODUCTS, INC. OR APPROVED EQUAL. FRAMES AND GRATES SHALL BE DESIGNED FOR H-20 WHEEL LOADING.
2. UNLESS OTHERWISE NOTED, STORM DRAIN PIPE SHALL BE HIGH DENSITY POLYETHYLENE (H.D.P.E.) PIPE AND SHALL CONFORM TO THE REQUIREMENTS OF AASHTO DESIGNATION: M294, TYPE S, PIPE SHALL HAVE BELL AND SPIGOT JOINTS PROVIDING SOIL TIGHT CONNECTIONS.
3. CONTRACTOR SHALL PROVIDE ALL NECESSARY FITTINGS FOR ENTIRE DRAINAGE SYSTEM INCLUDING FOR CONNECTING SITE PIPING TO RAINWATER LEADERS FROM BUILDINGS.
4. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION AT CONNECTIONS TO RAINWATER LEADERS.
5. CONTRACTOR SHALL POTHOLE EXISTING FACILITIES TO VERIFY EXISTENCE, SIZE, ELEVATION OF FEATURES PRIOR TO COMMENCING CONSTRUCTION OR ORDERING MATERIALS.

LOW IMPACT DEVELOPMENT NOTE

TWO INFILTRATION TRENCHES ARE LOCATED ON THE SITE TO MEET THE CITY OF CHICO LOW IMPACT DEVELOPMENT AND HYDROMODIFICATION REQUIREMENTS.

SANITARY SEWER NOTES

1. ALL SANITARY SEWER LOCATION AND INVERT INFORMATION HAS BEEN DETERMINED BY REVIEW OF HISTORIC IMPROVEMENT PLAN SHEETS. PRIOR TO ORDERING ANY MATERIALS THE CONTRACTOR SHALL POTHOLE THE EXISTING SANITARY SEWER FACILITIES TO DETERMINE THE ACTUAL LOCATION, SIZE, DEPTH AND DIRECTION OF FLOW AT ALL POINTS OF CONNECTION TO PROPOSED SANITARY SEWER IMPROVEMENTS AND SHALL PROVIDE THE INFORMATION TO THE ENGINEER FOR REVIEW AND APPROVAL.
2. SANITARY SEWER PIPE SHALL BE SDR-35 PIPE IN ACCORDANCE WITH CITY OF CHICO DESIGN AND INSTALLATION STANDARDS.

NOTES:

1. SEE SHEET C2 FOR ADDITIONAL LEGEND.

WATER NOTES

1. GATE VALVES SHALL BE RESILIENT SEATED GATE VALVES CONFORMING TO AWWA C509. VALVES SHALL BE RATED FOR A MINIMUM WORKING PRESSURE OF 150 PSI, AND SHALL HAVE END FITTINGS TO CONFORM TO THE PIPE OR FITTING BEING CONNECTED. VALVES SHALL BE SIMILAR AND EQUAL TO MUELLER "RESILIENT SEAT", WATEROUS "SERIES 500", CLOW "RESILIENT WEDGE" OR APPROVED EQUAL. VALVES SHALL BE PROVIDED WITH 2-INCH SQUARE OPERATING NUTS WHEN INSTALLED UNDERGROUND.
2. VALVE BOXES SHALL BE PROVIDED FOR ALL GATE VALVES AND SHALL BE SIMILAR AND EQUAL TO BROOKS PRODUCTS, INC., NO. 3-RT OR CHRISTY O-5, WITH 8-INCH CONCRETE PIPE EXTENSION SLEEVE COVER TO BE MARKED "WATER". ALL VALVE BOXES SHALL BE TRAFFIC RATED.
3. THRUST BLOCKS SHALL BE INSTALLED AS SHOWN ON SHEET 1CON106A.
4. WATER IMPROVEMENTS SHOWN ON THIS PLAN FROM THE POINT OF CONNECTION TO THE METER OR BACKFLOW ASSEMBLY OR FIRE HYDRANT ARE FOR BIDDING PURPOSES ONLY. ACTUAL CONSTRUCTION OF WATER IMPROVEMENTS SHALL CONFORM TO THE FINAL PLANS, DETAILS AND SPECIFICATIONS PREPARED BY CALIFORNIA WATER SERVICE.
5. REDUCED PRESSURE BACKFLOW ASSEMBLIES SHALL MEET CALIFORNIA WATER SERVICE STANDARDS. INSTALLATION OF WATER MAINS AND APPURTENANCES FROM THE POINT OF CONNECTION UP TO AND INCLUDING THE REDUCED PRESSURE BACKFLOW ASSEMBLY SHALL BE INSPECTED AND APPROVED BY CALIFORNIA WATER SERVICE.
6. INSTALLATION OF FIRE WATER SERVICE UNDERGROUND PIPE SHALL BE IN ACCORDANCE WITH 2016 NFPA 13, 2016 NFPA 24 AND ALL OTHER APPLICABLE STANDARDS AND REGULATIONS.
7. FIRE WATER SERVICE HYDROSTATIC TEST AND FLUSH SHALL BE DONE PRIOR TO CONNECTION TO OVERHEAD PIPING. TEST AND FLUSH SHALL BE WITNESSED BY THE FIRE DEPARTMENT.

LEGEND

- PROPOSED STORM DRAIN PIPE
- PROPOSED STORM DRAIN CATCH BASIN
- PROPOSED STORM DRAIN CATCH BASIN
- PROPOSED SANITARY SEWER PIPE
- PROPOSED SANITARY SEWER MANHOLE
- PROPOSED WATER LINE
- PROPOSED FIRE HYDRANT
- PROPOSED WATER METER
- PROPOSED REDUCED PRESSURE ASSEMBLY
- PROPOSED GAS LINE
- PROPOSED JOINT TRENCH
- PROPOSED INFILTRATION TRENCH
- INSTALL LEAN CONCRETE BACKFILL AROUND STORM DRAIN PIPES PER DETAIL ON SHEET C6

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RAR PROJECT NO.: 23098

REGISTERED PROFESSIONAL ENGINEER — CIVIL — State of California

PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23098
Issue	100% CD
Date	2025-01-23

CONSTRUCTION DOCUMENTS
UTILITY PLAN
C3

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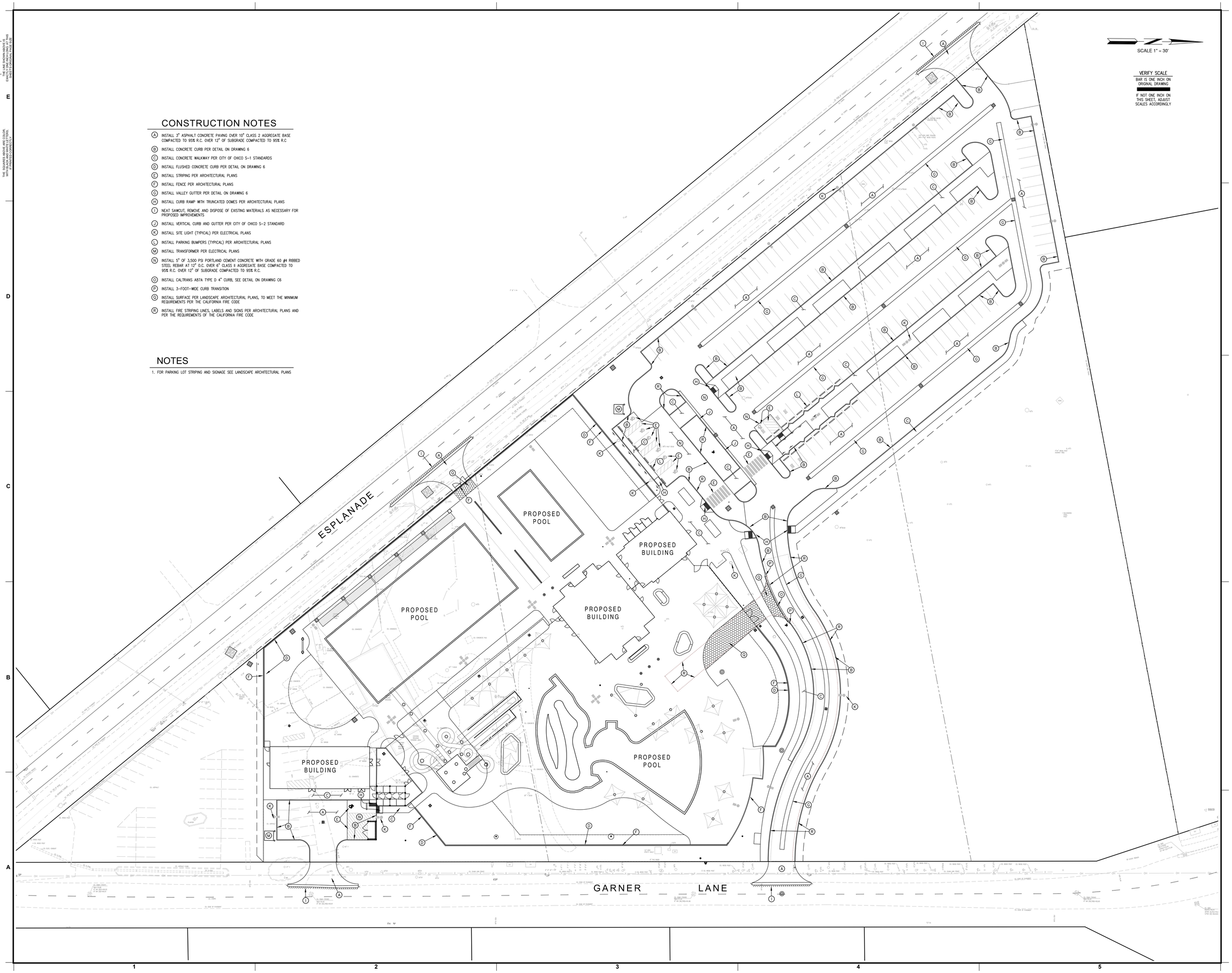
CONSTRUCTION NOTES

- (A) INSTALL 3" ASPHALT CONCRETE PAVING OVER 10" CLASS 2 AGGREGATE BASE COMPACTED TO 95% R.C. OVER 12" OF SUBGRADE COMPACTED TO 95% R.C
- (B) INSTALL CONCRETE CURB PER DETAIL ON DRAWING 6
- (C) INSTALL CONCRETE WALKWAY PER CITY OF CHICO S-1 STANDARDS
- (D) INSTALL FLUSHED CONCRETE CURB PER DETAIL ON DRAWING 6
- (E) INSTALL STRIPING PER ARCHITECTURAL PLANS
- (F) INSTALL FENCE PER ARCHITECTURAL PLANS
- (G) INSTALL VALLEY GUTTER PER DETAIL ON DRAWING 6
- (H) INSTALL CURB RAMP WITH TRUNCATED DOMES PER ARCHITECTURAL PLANS
- (I) NEAT SAWCUT, REMOVE AND DISPOSE OF EXISTING MATERIALS AS NECESSARY FOR PROPOSED IMPROVEMENTS
- (J) INSTALL VERTICAL CURB AND GUTTER PER CITY OF CHICO S-2 STANDARD
- (K) INSTALL SITE LIGHT (TYPICAL) PER ELECTRICAL PLANS
- (L) INSTALL PARKING BUMPERS (TYPICAL) PER ARCHITECTURAL PLANS
- (M) INSTALL TRANSFORMER PER ELECTRICAL PLANS
- (N) INSTALL 5" OF 3,500 PSI PORTLAND CEMENT CONCRETE WITH GRADE 60 #4 RIBBED STEEL REBAR AT 12" O.C. OVER 6" CLASS II AGGREGATE BASE COMPACTED TO 95% R.C. OVER 12" OF SUBGRADE COMPACTED TO 95% R.C.
- (O) INSTALL CALTRANS A87A TYPE D 4" CURB, SEE DETAIL ON DRAWING C6
- (P) INSTALL 3-FOOT-WIDE CURB TRANSITION
- (Q) INSTALL SURFACE PER LANDSCAPE ARCHITECTURAL PLANS, TO MEET THE MINIMUM REQUIREMENTS PER THE CALIFORNIA FIRE CODE
- (R) INSTALL FIRE STRIPING LINES, LABELS AND SIGNS PER ARCHITECTURAL PLANS AND PER THE REQUIREMENTS OF THE CALIFORNIA FIRE CODE

NOTES

1. FOR PARKING LOT STRIPING AND SIGNAGE SEE LANDSCAPE ARCHITECTURAL PLANS



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REGISTERED PROFESSIONAL ENGINEER
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State of California

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Revision Schedule

No.	Date	Description

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23098
Issue	100% CD
Date	2025-01-23

CONSTRUCTION DOCUMENTS SITE PLAN
C4

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LEGEND - EROSION & SEDIMENT CONTROL

- PROPOSED DIRECTION OF SURFACE FLOW
- INSTALL INLET PROTECTION PER DETAIL 1, DETAIL 2 OR DETAIL 3 ON THIS SHEET
- PROPOSED SAWCUT LINE, REFER TO EROSION CONTROL NOTE 6
- INSTALL CRUSHED ROCK ENTRANCE ROAD PER EROSION CONTROL NOTE 4
- TW — PROPOSED TIRE WASH AREA PER TIRE WASH NOTES
- MS — PROPOSED MATERIAL DELIVERY AND STORAGE AREA, BMP OBJECTIVES PER WM-1 (SEE SWPPP)
- MU — PROPOSED MATERIAL USE AREA, BMP OBJECTIVES PER WM-2 (SEE SWPPP)
- SW — PROPOSED SOLID WASTE MANAGEMENT AREA, BMP OBJECTIVES PER WM-5 (SEE SWPPP)
- PROPOSED HAZARDOUS WASTE MANAGEMENT AREA, BMP OBJECTIVES PER WM-6 (SEE SWPPP)
- CS — SS — PROPOSED STOCKPILE MANAGEMENT AREA, BMP OBJECTIVES PER WM-3 (SEE SWPPP)
- PROPOSED PORTABLE RESTROOM LOCATION PER WM-9 (SEE SWPPP)
- CW — DESIGNATES A 15' X 15' AREA WITH A 2 FOOT HIGH BERM ON ALL FOUR SIDES LINED WITH 10 MIL PLASTIC TO BE CONSTRUCTED BY THE CONTRACTOR PER DETAIL WM-8 (SEE SWPPP) FOR WASHOUT OF CONCRETE TRUCKS LEAVING THE SITE. CONTRACTOR SHALL CLEANOUT RESIDUE ON A REGULAR BASIS AND MAINTAIN PERIMETER BERMS. IF NECESSARY FOR CONSTRUCTION PURPOSES, THE DESIGNATED AREA MAY BE RELOCATED TO OTHER AREAS AWAY FROM CONCENTRATED RUNOFF.
- INSTALL 8" ROUND "FIBER ROLL" OR SILT FENCE TO CONTROL AND FILTER SEDIMENT FROM STORM WATER RUNOFF. MAY BE REMOVED AFTER SITE HAS BEEN STABILIZED AND THERE IS NO POTENTIAL FOR CONSTRUCTION RELATED STORM WATER POLLUTION.
- INSTALL FIBER ROLL CHECK DAM PER DETAIL

EROSION CONTROL NOTES

1. THE FACILITIES SHOWN ON THIS PLAN ARE DESIGNED TO CONTROL SEDIMENT AND EROSION DURING CONSTRUCTION OPERATIONS. THESE MEASURES ARE TO BE INSTALLED AND OPERABLE THROUGHOUT THE YEAR.
2. MAINTENANCE SHALL BE PERFORMED AS FOLLOWS:
   A) REPAIR DAMAGES CAUSED BY SOIL EROSION OR CONSTRUCTION AT OR BEFORE THE END OF EACH WORKING DAY.
   B) INSPECT SAND/GRAVEL BAGS AND FIBER ROLLS AROUND EACH CATCH BASIN WEEKLY OR BEFORE AND AFTER EACH RAINFALL EVENT. REPLACE DAMAGED OR NON-FUNCTIONAL BAGS AT TIME OF INSPECTION. REMOVE ANY ACCUMULATED SEDIMENT TO A SUITABLE LOCATION WHERE IT WILL NOT ERODE.
   C) INSPECT FIBER ROLLS AND SILT FENCES WEEKLY OR BEFORE AND AFTER EACH RAINFALL EVENT. REPLACE DAMAGED OR NON-FUNCTIONAL FIBER ROLLS OR SILT FENCES AT THE TIME OF INSPECTION. REMOVE ANY ACCUMULATED SEDIMENT TO A SUITABLE LOCATION WHERE IT WILL NOT ERODE.
3. ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT LADEN RUNOFF TO ANY STORM DRAINAGE SYSTEM.
4. THE CONTRACTOR SHALL LIMIT ACCESS TO THE SITE TO A SINGLE LOCATION OR LOCATIONS. AT EACH DESIGNATED LOCATION, THE CONTRACTOR SHALL CONSTRUCT A 20' WIDE, BY 50' LONG AND 12" THICK CRUSHED STONE (3"–6") DRIVEWAY ON GEOTEXTILE FABRIC PER DETAIL TC–1 IN THE SWPPP TO PREVENT OFFSITE TRACKING OF MUD, DIRT AND DEBRIS. CONTRACTOR SHALL CLEAN AND/OR REPLACE DRIVEWAY AS NEEDED TO PREVENT OFFSITE TRACKING. THE LOCATION OF THE DRIVEWAY CAN BE REVISED UPON APPROVAL BY THE QUALIFIED SWPPP PRACTITIONER.
5. PLASTIC MATERIALS SHALL BE PLACED UNDER ASPHALT CONCRETE PAVING AND PORTLAND CEMENT CONCRETE EQUIPMENT WHILE NOT IN USE TO CATCH AND/OR CONTAIN DRIPS AND LEAKS.
6. RESIDUE FROM PORTLAND CEMENT CONCRETE OR ASPHALT CONCRETE GRINDING/SAWCUTTING OPERATIONS SHALL BE PICKED UP BY MEANS OF A VACUUM SYSTEM OR SWEEPING AND SHALL NOT BE ALLOWED TO FLOW INTO THE STORM DRAINAGE SYSTEM.
7. ALL CLEANING OF TOOLS OR EQUIPMENT USED FOR CONCRETE, MORTER, GROUT, ETC. WORK SHALL BE PERFORMED OFFSITE OR WITHIN A DESIGNATED WASHOUT AREA. THE WASHOUT AREA SHALL CONTAIN ALL WASHOUT MATERIALS AND WATER WITHOUT LEAKING OR SPILLING AND SHALL BE DISPOSED OF OFFSITE AND REPLACED AS NEEDED.
8. ALL CONCRETE MORTER, GROUT, ETC. MATERIALS THAT ARE STORED ONSITE SHALL BE COVERED WITH PLASTIC OR KEPT WITHIN A WATER TIGHT ENCLOSURE AT ALL TIMES.
9. ALL CONCRETE PLACED AS PART OF THE PROJECT SHALL BE COVERED WITH PLASTIC PRIOR TO THE ONSET OF PRECIPITATION.
10. ONSITE VEHICLE AND EQUIPMENT MAINTENANCE AND FUELING IS DISCOURAGED. WHEN ONE OF THESE ACTIVITIES MUST OCCUR ONSITE THE WORK SHALL TAKE PLACE WITHIN A BERMED AREA PROTECTED FROM RUNOFF AT LEAST 50 FEET FROM DRAINAGE FACILITIES. SPILL CLEAN–UP MATERIALS SHALL BE AVAILABLE PRIOR TO ANY OF THESE ACTIVITIES TAKING PLACE.
11. VEHICLES AND EQUIPMENT STORED ONSITE SHALL BE PLACED WITHIN A BERMED AREA PROTECTED FROM RUNOFF AT LEAST 50 FEET FROM DRAINAGE FACILITIES.
12. ALL STOCKPILED MATERIALS SHALL BE COVERED AND PROTECTED WITH A TEMPORARY PERIMETER SEDIMENT BARRIER WHEN NOT ACTIVELY BEING USED, AT THE END OF EACH DAY AND PRIOR TO THE ONSET OF PRECIPITATION.
13. DISTURBED SOIL AREAS SHALL BE STABLIZED PRIOR TO THE ONSET OF PRECIPITATION TO MINIMIZE EROSION USING HYDRAULIC MULCH, STRAW MULCH, HYDROSEEDING INCLUDING A MULCH, EROSION CONTROL BLANKETS, OR AN APPROVED EQUAL.
14. AREAS WHERE GRADING HAS OCCURRED AND A FINISH SURFACE (CONCRETE, ASPHALT, AGGREGATE BASE, LANDSCAPING) WILL NOT BE INSTALLED SHALL BE SEEDED WITH NATIVE GRASSES AND WATERED UNTIL GRASS COVER IS GROWN.

TIRE WASH NOTES

1. THE TIRE WASH AREA SHALL BE WITHIN THE CRUSHED ROCK ENTRANCE ROAD. THE CRUSHED ROCK ENTRANCE ROAD AND ADJACENT GROUND SHALL BE GRADED TO DIRECT TIRE WASH WATER INTO A TEMPORARY CONTAINMENT AREA. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS INCLUDING THE LOCATION, SIZE AND CONSTRUCTION DETAILS FOR THE TEMPORARY CONTAINMENT AREA FOR REVIEW AND APPROVAL BY THE QUALIFIED SWPPP PRACTITIONER PRIOR TO INSTALLING THE TIRE WASH AREA. TIRE WASHING SHALL ONLY OCCUR BY USE OF A HIGH PRESSURE SPRAYER.
2. THE TIRE WASH AREA AND CRUSHED ROCK ENTRANCE ROAD SHALL BE INSPECTED AT A MINIMUM WEEKLY AND SHALL BE CLEANED OR REPLACED IF DAMAGED OR IF VISIBLE SEDIMENT IS PRESENT. WATER FROM THE TIRE WASH AREA SHALL NOT BE ALLOWED TO ENTER THE STORM DRAIN SYSTEM OR DISCHARGE FROM THE SITE WITHOUT APPROVAL FROM THE QUALIFIED SWPPP PRACTITIONER.
3. IF THE CRUSHED ROCK ENTRANCE IS RELOCATED AT ANY TIME DURING THE PROJECT, THE TIRE WASH AREA SHALL BE MOVED TO THE NEW LOCATION.

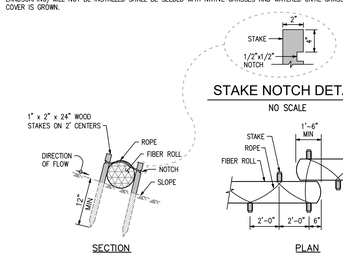
STRAW MULCH NOTES

1. STRAW BALES SHALL BE DERIVED FROM WHEAT, RICE OR BARLEY. STRAW THAT HAS BEEN USED FOR STABLE BEDDING SHALL NOT BE USED.
2. STRAW MULCH SHALL BE APPLIED BY A STRAW BLOWER OR BY HAND. STRAW SHALL BE APPLIED AT A MINIMUM RATE OF 4,000 POUNDS PER ACRE AND SHALL BE EVENLY DISTRIBUTED ON THE SOIL SURFACE. STRAW MULCH SHALL NOT BE PLACED ONTO THE TRAVELED WAY, SIDEWALKS, WALLS, FENCES OR EXISTING VEGETATION.
3. STRAW MULCH SHALL BE ANCHORED TO THE SOIL WITH STABILIZING EMULSION. PRIOR TO APPLICATION, THE SOIL SHALL BE ROUGHENED BY ROLLING WITH A CRIMPING OR PUNCHING–TYPE ROLLER OR BY TRACK WALKING. THE QUANTITY OF EMULSION AND RATIO OF WATER SHALL BE PER MANUFACTURER RECOMMENDATIONS.
4. STRAW MULCH SHALL NOT BE APPLIED DURING OR IMMEDIATELY BEFORE PRECIPITATION, IF WATER IS STANDING ON OR MOVING ACCROSS THE SOIL SURFACE, IF THE SOIL IS FROZEN OR IF THE AIR TEMPERATURE IS BELOW 40° F UNLESS ALLOWED BY THE EMULSION MANUFACTURER AND APPROVED BY THE QUALIFIED SWPPP PRACTITIONER.

FIBER ROLL INSTALLATION NOTES

FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR FIBER ROLL INSTALLATION AS FOLLOWS:

1. FINE GRADE THE SUBGRADE BY HAND DRESSING WHERE NECESSARY TO REMOVE LOCAL DEVIATIONS AND TO REMOVE LARGER STONES OR DEBRIS THAT WILL INHIBIT INTIMATE CONTACT OF THE FIBER ROLL WITH THE SUBGRADE.
2. PRIOR TO ROLL INSTALLATIONS, CONTOUR A CONCAVE KEY TRENCH 2 TO 4 INCHES DEEP ALONG THE PROPOSED INSTALLATION ROUTE.
3. SOIL EXCAVATED IN TRENCHING SHOULD BE PLACED ON THE DOWNHILL SIDE OF THE ROLL.
4. PLACE FIBER ROLLS INTO THE KEY TRENCH AND STAKE THE CENTER OF THE ROLL EVERY 3 FEET WITH 1" x 2" x 24" STAKES.
5. STAKES ARE TYPICALLY DRIVEN IN ON ALTERNATING SIDES OF THE ROLL. IF MORE THAN ONE FIBER ROLL IS PLACED IN A ROW, THE ROWS SHALL BE OVERLAPPED, NOT ABUTTED.

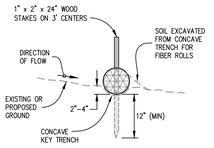


STAKE NOTCH DETAIL

NO SCALE

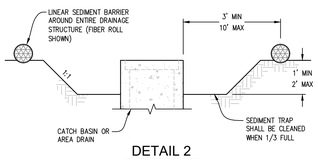
FIBER ROLL DETAIL (TYPE 2)

NO SCALE



FIBER ROLL DETAIL (TYPE 1)

NO SCALE



DETAIL 2

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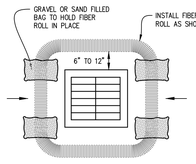

DETAIL 1

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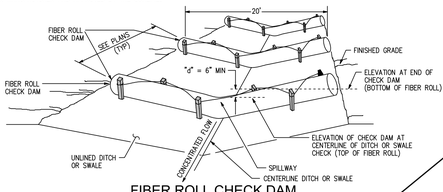
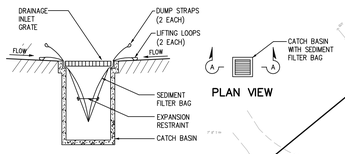


FIBER ROLL CHECK DAM

NO SCALE



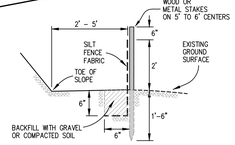
SECTION A–A

PLAN VIEW

NOTE: PROVIDE OVERFLOW OPENINGS NEAR TOP OF SEDIMENT FILTER BAG

DETAIL 3

NO SCALE



SILT FENCE INSTALLATION DETAIL

NO SCALE

SCALE 1" = 30'

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

NOTES

1. THE INFORMATION ON THIS PLAN IS INTENDED TO BE USED AS A GUIDELINE FOR THE CONTRACTOR AND SUBCONTRACTORS TO INSTALL WATER POLLUTION CONTROL DEVICES AT GENERAL LOCATIONS THROUGHOUT THE CONSTRUCTION SITE. THESE DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE STORM WATER POLLUTION PREVENTION PLAN.
2. FIELD CONDITIONS MAY NECESSITATE MODIFICATIONS TO THESE DRAWINGS.
3. DURING CLEARING, GRADING, GROUND DISTURBANCE OR EXCAVATION OPERATIONS, FUGITIVE DUST EMISSIONS SHALL BE CONTROLLED BY REGULAR WATERING, PAVING OF CONSTRUCTION ROADS, OR OTHER DUST PREVENTATIVE METHODS UTILIZING THE FOLLOWING MEASURES:
   A. ALL MATERIAL EXCAVATED OR GRADED SHALL BE SUFFICIENTLY WATERED TO PREVENT EXCESSIVE AMOUNTS OF DUST. WATERING, WITH COMPLETE COVERAGE, SHALL OCCUR AT LEAST TWICE DAILY, PREFERABLY IN THE LATE MORNING AND AFTER WORK IS DONE FOR THE DAY.
   B. ALL CLEARING, GRADING, EARTH MOVING OR EXCAVATION ACTIVITIES SHALL CEASE WHEN WINDS EXCEED 15 MPH AVERAGED OVER 1 HOUR.
   C. THE AREA DISTURBED BY DEMOLITION, CLEARING, GRADING, EARTH MOVING, OR EXCAVATION OPERATIONS SHALL BE MINIMIZED AT ALL TIMES.
   D. PORTIONS OF THE CONSTRUCTION SITE TO REMAIN INACTIVE LONGER THAN A PERIOD OF 3 MONTHS SHALL BE SEEDED AND WATERED UNTIL GRASS COVER IS GROWN.
   E. ALL ONSITE ROADS SHALL BE PAVED AS SOON AS FEASIBLE OR WATERED PERIODICALLY OR CHEMICALLY STABILIZED.
   F. SEDIMENT CARRIED ONTO STREET SURFACES BY CONSTRUCTION EQUIPMENT SHALL BE REMOVED ON A DAILY BASIS.
   G. HAUL TRUCKS SHALL BE COVERED WITH TARPAULINS OR OTHER EFFECTIVE COVERS AT ALL TIMES.

NOTE:

THE LOCATION AND EXTENT OF EROSION CONTROL FACILITES SHOWN ON THIS PLAN SHALL BE ADJUSTED AND MODIFIED BY THE CONTRACTOR BASED ON RECOMMENDATIONS OF THE QUALIFIED SWPPP PRACTITIONER TO ADAPT TO CHANGING SITE CONDITIONS AND THE PHASING OF VARIOUS CONSTRUCTION ACTIVITIES.

NOTE: PRIOR TO COMPLETION OF CONSTRUCTION, ALL DISTURBED AREAS THAT WILL NOT BE LANDSCAPED SHALL BE HYDROSEEDED WITH NATIVE GRASS SEED, COVERED WITH STRAW MULCH AND WATERED UNTIL VEGETATION HAS BEEN ESTABLISHED. THE PROJECT IS NOT CONSIDERED STABILIZED UNTIL A UNIFORM VEGETATIVE COVER EQUIVALENT TO 70% COVERAGE OF THE PRE–CONSTRUCTION CONDITIONS IS PROVIDED IN ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES.

NOTE: SAMPLING FOR NON–VISIBLE POLLUTANTS SHALL OCCUR AT ANY LOCATION USED TO STORE MATERIALS OR EQUIPMENT OR WHERE ANY ACTIVITIES HAVE OCCURED THAT USED MATERIALS THAT MAY CONTRIBUTE TO NON–VISIBLE POLLUTANTS.

ALL AREAS THAT ARE USED TO STOCKPILE SOIL OR MATERIALS SHALL BE COVERED WITH PLASTIC AND PROTECTED WITH A TEMPORARY PERIMETER SEDIMENT BARRIER WHEN NOT ACTIVELY BEING USED, AT THE END OF EACH DAY, AND PRIOR TO THE ONSET OF PRECIPITATION.

ALL DISTURBED SOIL AREAS SHALL BE STABILIZED PER EROSION CONTROL NOTE 13 IF INACTIVE MORE THAN 14 DAYS AND PRIOR TO THE ONSET OF PRECIPITATION

NOTE: ALL DISTURBED SOIL AREAS THAT WILL NOT BE LANDSCAPED SHALL BE SEEDED AND WATERED UNTIL VEGETATION HAS BEEN ESTABLISHED.

LINEAR SEDIMENT CONTROL REQUIREMENTS PER THE STATE WATER RESOURCES CONTROL BOARD CONSTRUCTION GENERAL PERMIT (SLT FENCE, FIBER ROLL, ETC.)

SLOPE (%)	SHEET FLOW LENGTH NOT TO EXCEED
0–25%	20 FEET
25–50%	15 FEET
OVER 50%	10 FEET

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TELEPHONE 530-895-1422

RAR PROJECT NO.: 23098

REGISTERED PROFESSIONAL ENGINEER — CIVIL — State of California

PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description

CHICO AQUATIC AND RECREATION FACILITY

CHICO AREA RECREATION & PARK DISTRICT

Project Number	23098
Issue	100% CD
Date	2025-01-23

CONSTRUCTION DOCUMENTS
EROSION & SEDIMENT CONTROL PLAN

C5

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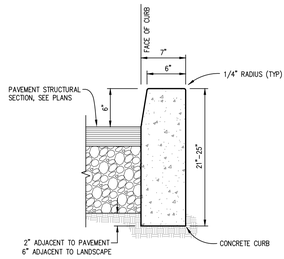
IF LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET SIZE, THIS IS A 1" SCALE DRAWING

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, FOR REFERENCE

File Location: S:\CIVIL 3D 2022 PROJECTS\23098 CARD\23098 CARD Aquatics_mconer | SAVE DATE: 1/23/2025 3:20 PM BY: User | PLOT DATE: 1/23/2025 3:20 PM BY: User

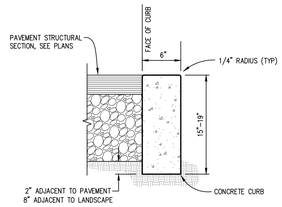
GENERAL NOTES

1. LOCATIONS AND DEPTHS OF EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN APPROXIMATED FROM SURFACE VISIBLE FACILITIES AND HISTORIC INFORMATION AND ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXISTENCE, LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO ORDERING MATERIALS OR BEGINNING SITE CONSTRUCTION. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA) AT 811 AT LEAST 3 DAYS PRIOR TO CONSTRUCTION.
2. EXISTING ONSITE SEWER CLEANOUTS WERE LOCATED AS PART OF THE TOPOGRAPHIC SURVEY, BUT SEWER LATERALS ARE NOT SHOWN SINCE PLAN INFORMATION IS NOT AVAILABLE.
3. LANDSCAPE IRRIGATION FACILITIES HAVE NOT BEEN LOCATED AS PART OF THE TOPOGRAPHIC SURVEY.
4. ASPHALT CONCRETE SHALL BE TYPE "A" OR "B", 1/2" MAXIMUM SIZE, MEDIUM GRADING CONFORMING TO THE REQUIREMENTS OF SECTION 39 OF THE STATE STANDARD SPECIFICATIONS. AGGREGATE BASE SHALL BE CLASS II, 3/4" MAXIMUM, CONFORMING TO THE REQUIREMENTS OF SECTION 26 OF THE STATE STANDARD SPECIFICATIONS.
5. UNLESS OTHERWISE NOTED, STORM DRAIN CATCH BASINS SHALL BE COOK CONCRETE PRODUCTS, INC. OR APPROVED EQUAL. FRAMES AND GRATES SHALL BE DESIGNED FOR H-20 WHEEL LOADING.
6. UNLESS OTHERWISE NOTED, STORM DRAIN PIPE SHALL BE HIGH DENSITY POLYETHYLENE (H.D.P.E.) PIPE AND SHALL CONFORM TO THE REQUIREMENTS OF AASHTO DESIGNATION: M294, TYPE S, PIPE SHALL HAVE BELL AND SPIGOT JOINTS PROVIDING SOIL TIGHT CONNECTIONS.
7. CONTRACTOR SHALL PROVIDE ALL NECESSARY FITTING FOR A COMPLETE STORM DRAIN SYSTEM. CONTRACTOR SHALL MODIFY DOWNSPOUTS AS NECESSARY TO DRAIN INTO THE PROPOSED DRAINAGE SYSTEM.
8. SANITARY SEWER LATERALS SHALL BE SDR-35 PIPE IN ACCORDANCE WITH CITY OF CHICO DESIGN AND INSTALLATION STANDARDS.
9. GATE VALVES SHALL BE RESILIENT SEATED GATE VALVES CONFORMING TO AWWA C509. VALVES SHALL BE RATED FOR A MINIMUM WORKING PRESSURE OF 150 PSI, AND SHALL HAVE END FITTINGS TO CONFORM TO THE PIPE OR FITTING BEING CONNECTED. VALVES SHALL BE SIMILAR AND EQUAL TO MUELLER "RESILIENT SEAT", WATEROUS "SERIES 500", CLOW "RESILIENT WEDGE" OR APPROVED EQUAL. VALVES SHALL BE PROVIDED WITH 2-INCH SQUARE OPERATING NUTS WHEN INSTALLED UNDERGROUND.
10. VALVE BOXES SHALL BE PROVIDED FOR ALL GATE VALVES AND SHALL BE SIMILAR AND EQUAL TO BROOKS PRODUCTS, INC., NO. 3-RT OR CHRISTY G-5, WITH 8-INCH CONCRETE PIPE EXTENSION SLEEVE COVER TO BE MARKED "WATER". ALL VALVE BOXES SHALL BE TRAFFIC RATED.
11. THRUST BLOCKS SHALL BE INSTALLED AS SHOWN ON THE PLANS.
12. WATER IMPROVEMENTS SHOWN ON THIS PLAN FROM THE POINT OF CONNECTION TO THE METER OR BACKFLOW ASSEMBLY ARE FOR BIDDING PURPOSES ONLY. ACTUAL CONSTRUCTION OF WATER IMPROVEMENTS SHALL CONFORM TO THE FINAL PLANS, DETAILS AND SPECIFICATIONS PREPARED BY CALIFORNIA WATER SERVICE.
13. LANDINGS AT BUILDING DOORWAYS SHALL NOT EXCEED 2% SLOPE. SIDEWALK SLOPES SHALL NOT EXCEED 1:20 (5%). SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%. PAVEMENT SLOPES WITHIN THE ACCESSIBLE PARKING STALLS SHALL NOT EXCEED 2% IN ANY DIRECTION. ALL ADA STANDARDS SHALL BE MAINTAINED FOR ALL IMPROVEMENTS. CURB RAMPS SHALL BE LENGTHENED OR SHORTENED TO ENSURE THAT RAMP SLOPES DO NOT EXCEED 8.33%.
14. ACCESSIBLE PARKING STALLS AND ACCESSIBLE ROUTE OF TRAVEL SHALL BE MARKED AND SIGNED IN ACCORDANCE WITH THE DETAILS SHOWN WITHIN THE ARCHITECTURAL PLAN SHEETS.
15. THE CONTRACTOR SHALL PROVIDE EROSION CONTROL IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL PLAN, SWPPP AND BEST MANAGEMENT PRACTICES TO PREVENT THE DISCHARGE OF POLLUTANTS FROM THE CONSTRUCTION SITE.
16. ALL CUT AND FILL SLOPES SHALL BE COVERED WITH A SUITABLE MULCH MATERIAL (STRAW, BARK, ETC.) UNTIL NATIVE VEGETATION IS RESTORED OR LANDSCAPE PLANTING IS ESTABLISHED. GRADED AREAS DRAINING TOWARD THE ADJACENT ROADS AND PARCELS SHALL USE INTERCEPTOR DITCHES, SILT FENCES, FIBER ROLLS, ETC. TO PREVENT OFFSITE DISCHARGE OF SEDIMENT LADEN RUNOFF.
17. ALL CONCRETE FLATWORK SHALL CONFORM TO THE RECOMMENDATIONS GIVEN IN THE GEOTECHNICAL ENGINEERING INVESTIGATION REPORT DATED NOVEMBER 21, 2023 PREPARED BY NV5.
18. A GEOTECHNICAL ENGINEER SHALL BE CONSULTED IF ANY SOFT/LOOSE SOILS ARE ENCOUNTERED DURING CONSTRUCTION TO PROVIDE A PROFESSIONAL OPINION OF SOIL CONDITIONS AND TO PROVIDE ADDITIONAL SOIL RECOMMENDATIONS.
19. PAINTED TRAFFIC STRIPES AND PAVEMENT MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 84 OF THE STATE STANDARD SPECIFICATIONS.
20. THE CONTRACTOR SHALL ADJUST ALL UTILITY LIDS, SHOWN WITHIN THESE PLANS AND ANY OTHERS FOUND DURING CONSTRUCTION, TO PROPOSED GRADE WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL REPLACE ANY UTILITY LIDS NOT MEETING CURRENT FEDERAL, STATE AND LOCAL CODES AND ORDINANCES FOR PEDESTRIAN USE OR DO NOT HAVE A NON-SLIP SURFACE.
21. UTILITY INFRASTRUCTURE WITHIN ACCESSIBLE AREAS, SUCH AS LIDS, FRAMES, GRATES, ETC, SHALL MEET ADA AND CBC ACCESSIBILITY REQUIREMENTS, HAVE VERTICAL OFFSETS OF LESS THAN 1/4", MEET SLOPE REQUIREMENTS AND HAVE A NON-SLIP SURFACE.
22. THE GROUND ADJACENT TO THE FOUNDATION SHALL BE SLOPED AWAY FROM THE BUILDING AT A MINIMUM SLOPE OF 5% AND GRADED TO PROVIDE POSITIVE DRAINAGE AROUND AND AWAY FROM THE BUILDING.
23. LANDSCAPING AND IRRIGATION DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE REPAIRED/REPLACED BY THE CONTRACTOR.
24. ALL CONSTRUCTION WITHIN THE CITY OF CHICO RIGHT-OF-WAY WILL REQUIRE A CITY ISSUED ENCROACHMENT PERMIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE PERMIT.
25. ALL PUBLIC RIGHT-OF-WAY TRUNCATED DOMES SHALL BE ADA SOLUTIONS, CAST-IN-PLACE, REPLACEABLE PANELS, FEDERAL YELLOW (FEDERAL COLOR NO. 33538).
26. ALL CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY OF CHICO.
27. THE CONTRACTOR SHALL GRADE BEYOND THE PROPOSED IMPROVEMENTS AND CUT OR FILL AS NECESSARY TO ADJACENT SOIL AREAS TO CONFORM TO IMPROVEMENTS.
28. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING MONUMENTS AND OTHER SURVEY MARKERS DURING CONSTRUCTION. ALL SUCH MONUMENTS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.



CONCRETE CURB

NO SCALE



FLUSHED CONCRETE CURB

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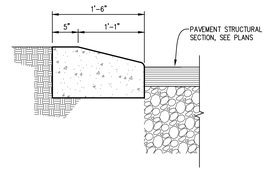


CALTRANS TYPE 'D' 4" CURB

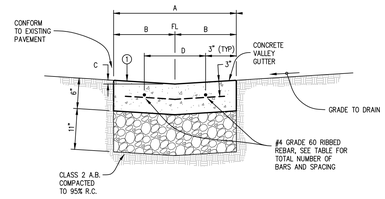
NO SCALE

VALLEY GUTTER CONSTRUCTION NOTES

① 6" THICK 3,500 PSI CONCRETE OVER 8" CLASS 2 AGGREGATE BASE COMPACTED TO 95% RELATIVE COMPACTION OVER THE TOP 12" OF SUBGRADE COMPACTED TO 95% RELATIVE COMPACTION. CONCRETE SHALL HAVE #4 RIBBED STEEL GRADE 60 REBAR ON 12" CENTERS LATERALLY AND AS SHOWN ON THE TABLE LONGITUDINALLY. PROVIDE 1/4" WIDE EXPANSION JOINTS AT 48' MAXIMUM INTERVALS AND 1/8" SCORED CONTROL JOINTS AT 10' MAXIMUM INTERVALS.

CONCRETE VALLEY GUTTER TABLE:

GUTTER TYPE	A (IN)	B (IN)	C (IN)	NO. OF REBAR & SPACING, D (IN)
TYPE 2	48	24	1-1/4	4, 10.5"



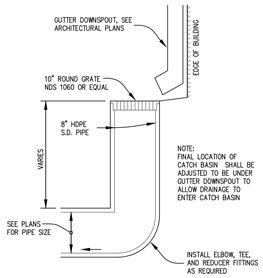
CONCRETE VALLEY GUTTER DETAIL

NO SCALE

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

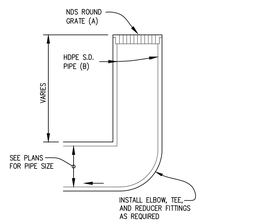


DOWNSPOUT CATCH BASIN

NO SCALE

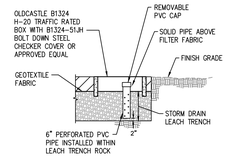
ITEM	(IN)	(IN)
GRATE (A)	10	12
PIPE (B)	8	12

NOTE: SEE PLANS FOR SIZE AT EACH LOCATION



POOL AREA CATCH BASIN

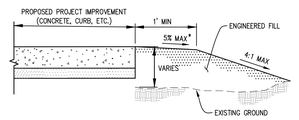
NO SCALE



OBSERVATION PORT DETAIL

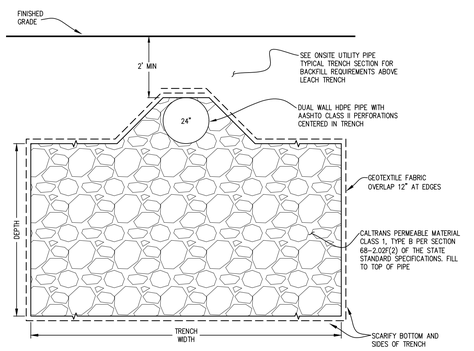
NO SCALE

* THIS DETAIL SHOWS A FILL SITUATION. IN A CUT SITUATION THE 5% SLOPE SHALL BE REVERSED TO FLOW TOWARD THE PROPOSED PROJECT IMPROVEMENTS.



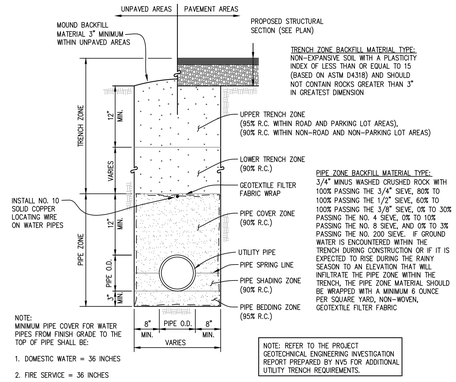
GRADING BEYOND IMPROVEMENTS DETAIL

NO SCALE



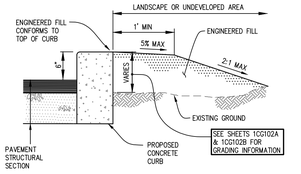
INFILTRATION TRENCH DETAIL

NO SCALE



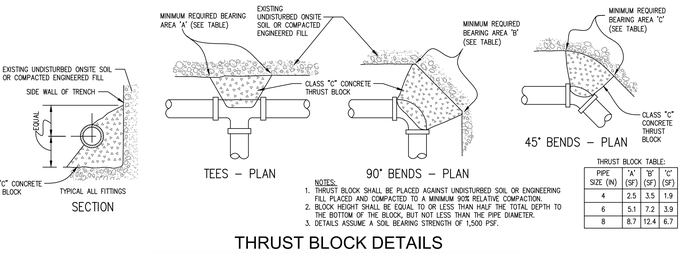
ONSITE UTILITY PIPE TYPICAL TRENCH SECTION

NO SCALE



GRADING BEHIND CURB DETAIL

NO SCALE



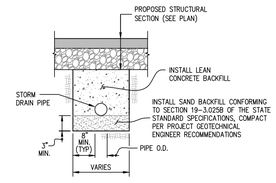
NOTES:
1. THRUST BLOCK SHALL BE PLACED AGAINST UNDISTURBED SOIL OR ENGINEERING FILL PLACED AND COMPACTED TO A MINIMUM 90% RELATIVE COMPACTION.
2. BLOCK HEIGHT SHALL BE EQUAL TO OR LESS THAN HALF THE TOTAL DEPTH TO THE BOTTOM OF THE BLOCK, BUT NOT LESS THAN THE PIPE DIAMETER.
3. DETAILS ASSUME A SOIL BEARING STRENGTH OF 1,500 PSF.

THRUST BLOCK TABLE:

PIPE SIZE (IN)	'A' (SF)	'B' (SF)	'C' (SF)
4	2.5	3.5	1.9
6	5.1	7.2	3.9
8	8.7	12.4	6.7

THRUST BLOCK DETAILS

NO SCALE



LEAN CONCRETE BACKFILL FOR STORM DRAIN PIPES

NO SCALE

COOK CONCRETE PRODUCTS, INC.
—Precast—
NPCA Precast...The Concrete Solution
MANHOLE PIPE • DRAINAGE INLETS • STORM WATER/OIL INTERCEPTORS • UTILITY VAULTS & BOXES • CUSTOM PRECAST
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www.cookconcreteproducts.com
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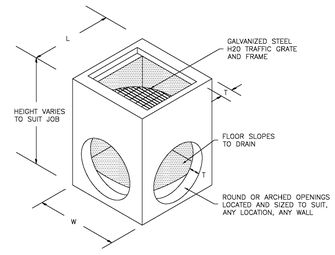
5461 EASTSIDE ROAD
P.O. BOX 720280
REDDING, CA 96099



NOTES:
1. CONCRETE COMPRESSIVE STRENGTH 4000 PSI AT 28 DAYS, REINFORCED FOR H-20 LOADING
2. UNITS ARE CUSTOM MADE FOR EACH JOB
3. AVAILABLE WITH OR WITHOUT BOTTOM
4. OPENINGS ARE SIZED AND LOCATED PER PLAN

PRODUCT	DIMENSIONS		
	L	W	T
12" X 12" CATCH BASIN	20"	20"	4"
18" X 18" CATCH BASIN	28"	28"	4"
24" X 24" CATCH BASIN	36"	36"	6"
24" X 48" CATCH BASIN	36"	60"	6"
30" X 30" CATCH BASIN	42"	42"	6"
24" X 36" CATCH BASIN	36"	48"	6"
36" X 36" CATCH BASIN	48"	50"	6"
48" X 48" CATCH BASIN	60"	60"	6"

CATCH BASIN

NO SCALE

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Chicago, IL 60601
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ARCHITECT:
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990 S Broadway #222,
Denver, CO 80209
303.455.1366

CIVIL ENGINEER:
ROLLS ANDERSON & ROLLS
115 Yellowstone Dr,
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ROLLS ANDERSON & ROLLS
CIVIL ENGINEERS
115 YELLOWSTONE DRIVE • CHICO, CALIFORNIA 95973-5810
TELEPHONE 530-895-1422

RAR PROJECT NO: 23098

REGISTERED PROFESSIONAL ENGINEER — CIVIL — State of California

PRELIMINARY
NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description

CHICO AQUATIC AND RECREATION FACILITY

CHICO AREA RECREATION & PARK DISTRICT

Project Number	23098
Issue	100% CD
Date	2025-01-23

CONSTRUCTION DOCUMENTS NOTES & DETAILS SHEET

C6

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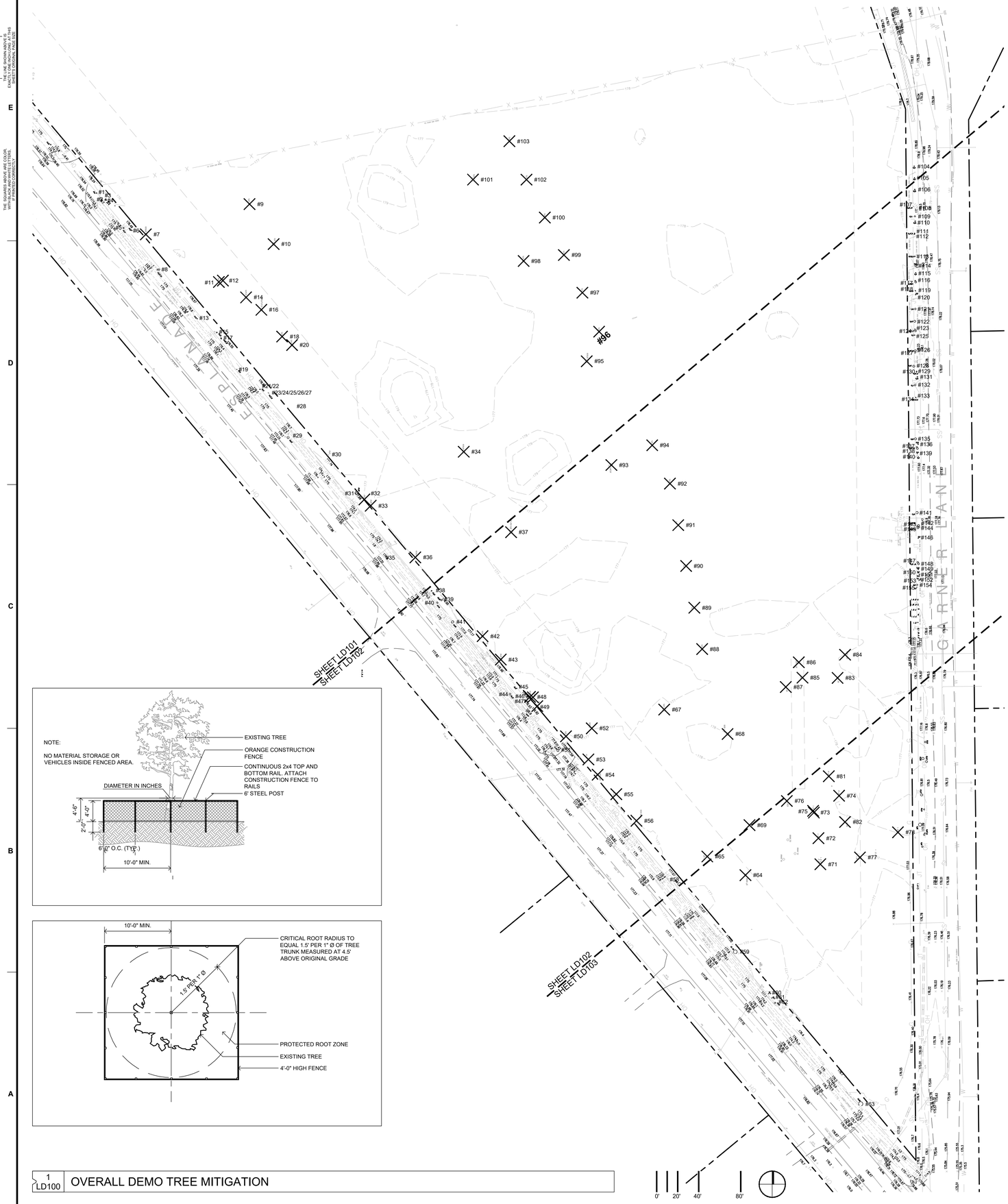
File Location: S:\CIVIL 3D 2022 PROJECTS\23098 CAD\23098 CARD Aquatics_xrcover | SAVE DATE: 1/23/2025 3:01 PM BY: User | PLOT DATE: 1/23/2025 3:15 PM BY: User



NOTE:
NO MATERIAL STORAGE OR VEHICLES INSIDE FENCED AREA.

1 LD100 OVERALL DEMO TREE MITIGATION

TREE PROTECTION & REMOVAL GENERAL NOTES:

A. REFERENCE ALL DRAWINGS SHEETS AND SPECIFICATIONS THROUGHOUT THE CONSTRICTION DOCUMENTS. NOT ALL NOTES ARE ON THIS SHEET. REFER TO OTHER DIVISIONS SHEETS FOR ALL SCOPES OF WORK.

B. REVIEW ALL CITY TREE MITIGATION REQUIREMENTS AND/OR PERMIT PROCESS PRIOR TO REMOVING ANY TREES ON SITE.

C. OBTAIN A TREE REMOVAL PERMIT FROM THE CITY OF CHICO'S PUBLIC WORKS DEPARTMENT BEFORE REMOVING ANY TREE WITH A DIAMETER AT BREAST HEIGHT (DBH) OF SIX INCHES OR MORE. EMERGENCY EXCEPTIONS APPLY ONLY WHEN A TREE PRESENTS AN IMMEDIATE HAZARD TO LIFE OR PROPERTY, AS DETERMINED BY AUTHORIZED CITY OFFICIALS.

D. PROHIBIT CONSTRUCTION ACTIVITIES, MATERIAL STORAGE, AND EQUIPMENT OPERATION WITHIN THE CRR TO PREVENT SOIL COMPACTION AND ROOT DAMAGE.

E. CONTRACTOR WILL ENSURE THE SURVIVAL OF TREES FOR AT LEAST THREE YEARS POST-PLANTING; SEE PLANTING SPECIFICATION.

F. SUBMIT A TREE PROTECTION PLAN PRIOR TO PERMIT ISSUANCE, DETAILING THE LOCATION, SIZE, SPECIES, AND DRIP-LINE OF ALL EXISTING TREES, AS WELL AS PROPOSED PROTECTIVE MEASURES DURING CONSTRUCTION.

G. UNAUTHORIZED REMOVAL OR DAMAGE TO PROTECTED TREES WILL RESULT IN PENALTIES, INCLUDING FINES UP TO TWICE THE APPRAISED VALUE OF THE TREE OR $5,000, WHICHEVER IS GREATER. PENALTIES WILL BE BORN BY THE CONTRACTOR, AT NOT EXPENSE TO THE OWNER.

H. A CERTIFIED ARBORIST SHALL MONITOR TREE PROTECTION MEASURES THROUGHOUT CONSTRUCTION, PROVIDING BIWEEKLY REPORTS TO THE PROJECT MANAGER AND CITY OFFICIALS. IMMEDIATELY REPORT ANY DAMAGE TO PROTECTED TREES TO THE CITY OF CHICO'S URBAN FOREST MANAGER.

I. IMPLEMENT A MAINTENANCE PROGRAM FOR PRESERVED AND NEWLY PLANTED TREES, INCLUDING REGULAR WATERING, MULCHING, AND PRUNING, TO PROMOTE HEALTH AND LONGEVITY PER THE PLANTING SPECIFICATIONS.

J. ALL WORK SHALL BE IN ACCORDANCE WITH OSHA CODES AND STANDARDS. NOTHING INDICATED ON THESE DRAWINGS SHALL RELIEVE THE CONTRACTOR FROM COMPLYING WITH ANY APPROPRIATE SAFETY REGULATIONS.

TREE MITIGATION SUMMARY:

REMOVED TO BE MITIGATED: 685" DBH

114 REQUIRED 15 GALLON TREES (REPLACE TREES AT (1) 15 GALLON TREE PER 6" OF DBH REMOVED)

PLANTING: 109 NEW TREES @ 2" CALIPER EACH

EXISTING TREES

LABEL	BOTANICAL NAME	COMMON NAME	HEALTH	DBH	COMMENTS
1	*Quercus lobata*	valley oak	3	8	KEEP
2	*Salix babylonica*	weeping willow	0	42	REMOVE-DEAD
3	*Juglans hindsii*	black walnut	2	11	KEEP
4	*Quercus lobata*	valley oak	2	8	KEEP
5	*Quercus lobata*	valley oak	3	0	KEEP
6	*Quercus lobata*	valley oak	3	9	KEEP
7	*Morus alba*	white mulberry	1	43	REMOVE-MITIGATE
8	*Quercus lobata*	valley oak	3	34	KEEP
9	*Fraxinus velutina*	velvet ash	2	26	REMOVE-MITIGATE
10	*Fraxinus uhdei*	tropical ash	3	35	REMOVE-MITIGATE
11	*Fraxinus pennsylvania*	green ash	2	12	REMOVE-MITIGATE
12	*Fraxinus pennsylvania*	green ash	2	20	REMOVE-MITIGATE
13	*Quercus lobata*	valley oak	3	10	KEEP
14	*Salix babylonica*	weeping willow	1	33	REMOVE-MORIBUND
15	*Quercus lobata*	valley oak	3	16	KEEP
16	*Salix babylonica*	weeping willow	1	50	REMOVE-MORIBUND
17	*Quercus lobata*	valley oak	3	21	KEEP
18	*Eucalyptus polyanthemos*	red box	1	17	REMOVE-MITIGATE
19	*Quercus lobata*	valley oak	3	12	KEEP
20	*Eucalyptus polyanthemos*	red box	3	27	REMOVE-MITIGATE
21	*Prunus angustifolia*	chickasaw plum	3	13	KEEP
22	*Prunus angustifolia*	chickasaw plum	3	22	?
23	*Quercus lobata*	valley oak	3	16	?
24	*Quercus lobata*	valley oak	3	7	?
25	*Quercus lobata*	valley oak	3	6	?
26	*Quercus lobata*	valley oak	3	6	?
27	*Quercus lobata*	valley oak	2	6	?
28	*Quercus lobata*	valley oak	2	21	?
29	*Quercus lobata*	valley oak	3	10	?
30	*Quercus lobata*	valley oak	2	16	?
31	*Quercus lobata*	valley oak	3	37	KEEP
32	*Quercus lobata*	valley oak	2	9	REMOVE-EXEMPT
33	*Quercus lobata*	valley oak	3	26	REMOVE-MITIGATE
34	*Fraxinus pennsylvania*	green ash	0	33	REMOVE-DEAD
35	*Ligustrum lucidum*	glossy privet	3	18	REMOVE
36	*Morus alba*	white mulberry	0	14	REMOVE-DEAD
37	*Fraxinus pennsylvania*	green ash	1	39	REMOVE-MITIGATE
38	*Quercus lobata*	valley oak	3	17	KEEP
39	*Quercus lobata*	valley oak	2	18	KEEP
40	*Quercus lobata*	valley oak	3	23	KEEP
41	*Quercus lobata*	valley oak	3	28	KEEP
42	*Morus alba*	white mulberry	1	22	REMOVE-MORIBUND
43	*Quercus lobata*	valley oak	4	32	REMOVE-MITIGATE
44	*Quercus lobata*	valley oak	3	21	KEEP
45	*Quercus lobata*	valley oak	2	6	KEEP
46	*Quercus lobata*	valley oak	2	8	REMOVE-EXEMPT
47	*Quercus lobata*	valley oak	3	22	KEEP
48	*Quercus lobata*	valley oak	3	26	REMOVE-MITIGATE
49	*Quercus lobata*	valley oak	4	28	REMOVE-MITIGATE
50	*Juglans hindsii*	black walnut	1	20	REMOVE-EXEMPT
51	*Quercus lobata*	valley oak	4	25	KEEP
52	*Quercus lobata*	valley oak	3	16	REMOVE-MITIGATE
53	*Catalpa speciosa*	catalpa	1	25	REMOVE-MITIGATE
54	*Quercus lobata*	valley oak	4	25	REMOVE-MITIGATE
55	*Liquidambar styraciflua*	sweetgum	0	19	REMOVE-DEAD
56	*Quercus lobata*	valley oak	2	13	REMOVE-MITIGATE
57	*Platycladus orientalis*	oriental arborvitae	2	20	?
58	*Quercus lobata*	valley oak	3	48	KEEP
59	*Quercus lobata*	valley oak	2	42	KEEP
60	*Quercus lobata*	valley oak	3	14	KEEP
61	*Quercus lobata*	valley oak	3	14	KEEP
62	*Quercus lobata*	valley oak	3	26	KEEP
63	*Quercus lobata*	valley oak	3	38	KEEP
64	*Platycladus orientalis*	oriental arborvitae	2	27	REMOVE-MITIGATE
65	*Juglans hindsii*	black walnut	3	40	REMOVE-EXEMPT
66	*Ligustrum lucidum*	glossy privet	3	19	?
67	*Paulownia tomentosa*	empress tree	2	38	REMOVE-EXEMPT
68	*Uknown*	Unknown	0	45	REMOVE-DEAD
69	*Quercus lobata*	valley oak	3	16	REMOVE-MITIGATE
70	*Ligustrum lucidum*	glossy privet	2	10	?
71	*Platycladus orientalis*	oriental arborvitae	3	19	REMOVE-MITIGATE
72	*Cupressus sempervirens*	Italian cypress	3	13	REMOVE
73	*Ligustrum lucidum*	glossy privet	4	35	REMOVE-EXEMPT
74	*Cupressus sempervirens*	Italian cypress	3	16	REMOVE
75	*Nerium oleander*	oleander	3	7	REMOVE
76	*Ligustrum lucidum*	glossy privet	2	17	REMOVE
77	*Juglans regia*	English walnut	2	32	REMOVE-EXEMPT
78	*Ligustrum lucidum*	glossy privet	2	22	REMOVE-EXEMPT
79	*Cupressus sempervirens*	Italian cypress	3	6	?
80	*Cupressus sempervirens*	Italian cypress	3	16	?
81	*Cupressus sempervirens*	Italian cypress	3	18	REMOVE-MITIGATE
82	*Cupressus sempervirens*	Italian cypress	4	20	REMOVE-MITIGATE
83	*Cupressus sempervirens*	Italian cypress	4	20	REMOVE-MITIGATE
84	*Liquidambar styraciflua*	sweetgum	0	19	REMOVE-MITIGATE
85	*Plantanus occidentalis*	American sycamore	1	22	REMOVE-MITIGATE
86	*Liquidambar styraciflua*	sweetgum	0	20	REMOVE-DEAD
87	*Cupressus sempervirens*	Italian cypress	3	18	REMOVE-MITIGATE
88	*Cupressus sempervirens*	Italian cypress	4	21	REMOVE-MITIGATE
89	*Cupressus sempervirens*	Italian cypress	4	16	REMOVE
90	*Cupressus sempervirens*	Italian cypress	4	18	REMOVE-MITIGATE
91	*Cupressus sempervirens*	Italian cypress	3	13	REMOVE
92	*Cupressus sempervirens*	Italian cypress	3	14	REMOVE
93	*Fraxinus pennsylvania*	green ash	1	47	REMOVE-MORIBUND
94	*Cupressus sempervirens*	Italian cypress	3	15	REMOVE
95	*Fraxinus pennsylvania*	green ash	0	33	REMOVE-DEAD
96	*Cupressus sempervirens*	Italian cypress	3	16	REMOVE
97	*Cupressus sempervirens*	Italian cypress	4	16	REMOVE
98	*Morus alba*	white mulberry	1	21	REMOVE-MORIBUND
99	*Cupressus sempervirens*	Italian cypress	3	18	REMOVE-MITIGATE
100	*Cupressus sempervirens*	Italian cypress	4	14	REMOVE
101	*Fraxinus velutina*	velvet ash	2	39	REMOVE-MITIGATE
102	*Cupressus sempervirens*	Italian cypress	4	16	REMOVE
103	*Cupressus sempervirens*	Italian cypress	4	12	REMOVE
104	*Eucalyptus polyanthemos*	red box	2	14	KEEP
105	*Eucalyptus camaldulensis*	river red gum	2	9	KEEP
106	*Eucalyptus polyanthemos*	red box	2	11	KEEP
107	*Eucalyptus polyanthemos*	red box	1	6	KEEP
108	*Eucalyptus camaldulensis*	river red gum	4	41	KEEP
109	*Eucalyptus camaldulensis*	river red gum	2	15	KEEP
110	*Eucalyptus camaldulensis*	river red gum	1	12	KEEP
111	*Eucalyptus camaldulensis*	river red gum	1	18	KEEP
112	*Eucalyptus camaldulensis*	river red gum	0	8	KEEP
113	*Eucalyptus polyanthemos*	red box	2	14	KEEP
114	*Eucalyptus camaldulensis*	river red gum	1	8	KEEP
115	*Eucalyptus camaldulensis*	river red gum	1	6	KEEP
116	*Eucalyptus polyanthemos*	red box	3	29	KEEP
117	*Eucalyptus camaldulensis*	river red gum	1	13	KEEP
118	*Eucalyptus camaldulensis*	river red gum	1	8	KEEP
119	*Quercus lobata*	valley oak	2	11	KEEP
120	*Eucalyptus polyanthemos*	red box	3	17	KEEP
121	*Eucalyptus polyanthemos*	red box	3	24	KEEP
122	*Eucalyptus polyanthemos*	red box	3	27	KEEP
123	*Eucalyptus camaldulensis*	river red gum	1	8	KEEP
124	*Eucalyptus polyanthemos*	red box	2	35	KEEP
125	*Eucalyptus polyanthemos*	red box	3	28	KEEP
126	*Eucalyptus polyanthemos*	red box	2	16	KEEP
127	*Eucalyptus camaldulensis*	river red gum	2	9	KEEP
128	*Eucalyptus camaldulensis*	river red gum	4	16	KEEP
129	*Eucalyptus camaldulensis*	river red gum	1	12	KEEP
130	*Eucalyptus polyanthemos*	red box	2	18	KEEP
131	*Eucalyptus polyanthemos*	red box	3	20	KEEP
132	*Eucalyptus polyanthemos*	red box	1	10	KEEP
133	*Eucalyptus camaldulensis*	river red gum	3	33	KEEP
134	*Eucalyptus camaldulensis*	river red gum	2	7	KEEP
135	*Quercus lobata*	valley oak	1	13	KEEP
136	*Eucalyptus polyanthemos*	red box	3	21	KEEP
137	*Eucalyptus polyanthemos*	red box	3	33	KEEP
138	*Eucalyptus polyanthemos*	red box	2	10	KEEP
139	*Eucalyptus polyanthemos*	red box	3	35	KEEP
140	*Eucalyptus polyanthemos*	red box	2	10	KEEP
141	*Eucalyptus polyanthemos*	red box	1	17	KEEP
142	*Eucalyptus camaldulensis*	river red gum	1	15	KEEP
143	*Eucalyptus camaldulensis*	river red gum	2	12	KEEP
144	*Eucalyptus camaldulensis*	river red gum	2	6	KEEP
145	*Eucalyptus camaldulensis*	river red gum	1	17	KEEP
146	*Eucalyptus camaldulensis*	river red gum	1	7	KEEP
147	*Eucalyptus polyanthemos*	red box	2	33	KEEP
148	*Quercus lobata*	valley oak	2	8	KEEP
149	*Quercus lobata*	valley oak	3	20	KEEP
150	*Quercus lobata*	valley oak	3	24	KEEP
151	*Quercus lobata*	valley oak	3	21	KEEP
152	*Quercus lobata*	valley oak	3	20	KEEP
153	*Cedrus deofara*	deodar cedar	4	30	KEEP
154	*Quercus lobata*	valley oak	3	14	KEEP
155	*Juglans regia*	English walnut	1	30	KEEP
156	*Juglans regia*	English walnut	1	19	KEEP

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ISSUE & REVISION Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

TREE MITIGATION

LD100

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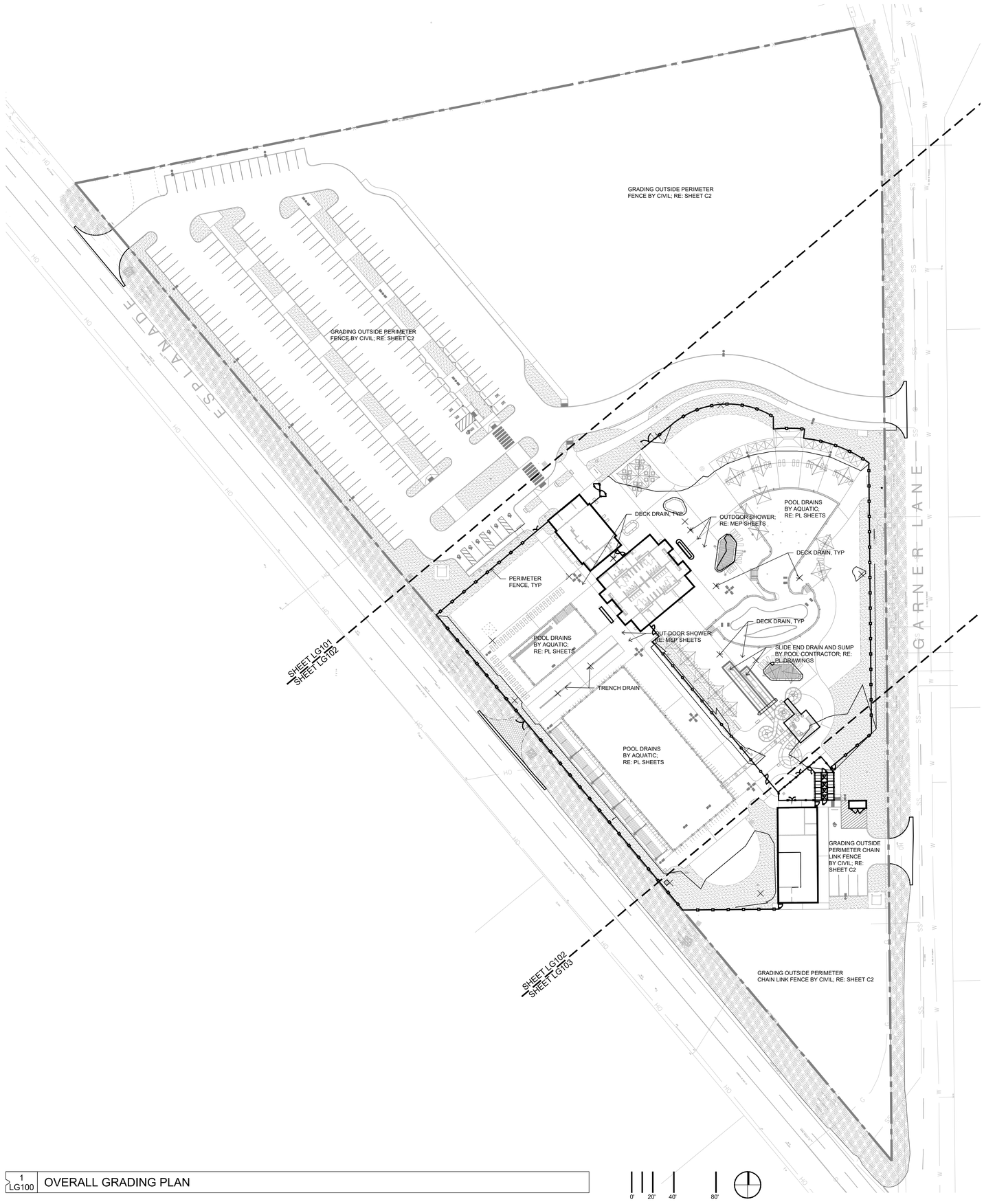

1 LG100 OVERALL GRADING PLAN

GRADING NOTES

A. REFERENCE ALL DRAWINGS SHEETS AND SPECIFICATIONS THROUGHOUT THE CONSTRICTION DOCUMENTS. NOT ALL NOTES ARE ON THIS SHEET. REFER TO OTHER DIVISIONS FOR ALL WORK.

B. THIS SHEET IS FOR GRADING INSIDE OF THE PERIMETER FENCE. ALL SPOT ELEVATIONS ARE AT THE TOP OF FINISHED SURFACES UNLESS NOTED OTHERWISE. SEE CIVIL SHEETS FOR GRADING OUTSIDE OF PERIMETER FENCE.

C. CONTRACTOR TO VERIFY ALL SPOT ELEVATIONS FOR POSITIVE DRAINAGE BEFORE INSTALLATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR POSITIVE SURFACE DRAINAGE IN ALL AREAS, UNLESS OTHERWISE NOTED. ALL NEWLY GRADED GROUND SURFACES SHALL BE FINISHED TO UNIFORM GRADES AND SLOPED IN SUCH A MANNER TO BE FREE OF DEPRESSIONS THAT CAUSE AREAS OF STANDING WATER. THE CONTRACTOR SHALL REPORT ANY CONFLICTS WITH THIS REQUIREMENT TO THE LANDSCAPE ARCHITECT FOR RESOLUTION PRIOR TO FINAL GRADING OPERATIONS.

D. WALK CROSS SLOPE MAY NOT EXCEED 2.0%. RUNNING SLOPE MAY NOT EXCEED 5.0%. RUNNING SLOPE FOR RAMPS MAY NOT EXCEED 1:12 WITH LANDINGS THAT DO NOT EXCEED 2.0% IN ANY DIRECTION.

E. WHERE PROPOSED GRADES MEET EXISTING, BLEND GRADES TO PROVIDE A SMOOTH TRANSITION BETWEEN THE NEW WORK AND EXISTING WORK. PONDING AT JOINTS WILL NOT BE ACCEPTED.

F. CONTACT LANDSCAPE ARCHITECT PRIOR TO BACKFILLING AGAINST EXISTING BUILDINGS. PROVIDE WATERPROOFING WHEN BACKFILLING AGAINST EXISTING BUILDINGS.

G. FINAL BERM SHAPE TO APPROVED BY LANDSCAPE ARCHITECT.

H. SEE SPECIFICATIONS FOR MINIMUM DEPTH OF TOPSOIL FOR ALL LAWN AREAS AND PLANTING BEDS.

I. DEBRIS SHALL BE REMOVED AND PAVEMENT WITHIN THE RIGHT-OF-WAY SWEPT AT THE END OF EACH WORKING DAY.

J. CONTRACTOR TO FIELD ADJUST ALL EXISTING SITE UTILITIES TO NEW FINISHED GRADES. EXISTING UTILITIES INCLUDE, BUT ARE NOT LIMITED TO, FIRE HYDRANTS, MANHOLE RIMS, INLETS, WATER VALVES, AND LIGHT BASES.

K. SILT FENCE AND INLET PROTECTION SHALL BE MAINTAINED UNTIL ESTABLISHMENT OF PERMANENT GROUND COVER.

UTILITY GENERAL NOTES

A. DEWATERING (IF REQUIRED) IS CONSIDERED AN INCIDENTAL EXPENSE. NO ADDITIONAL PAYMENT WILL BE MADE FOR DEWATERING.

B. COORDINATE INSPECTIONS FOR CONNECTIONS TO PUBLIC WATER, SANITARY, AND STORM SEWER WITH THE APPROPRIATE JURISDICTIONS.

C. INSTALL TEMPORARY INLET PROTECTION AROUND ALL PERMANENT STORM SEWER INLETS IN COMPLIANCE WITH LOCAL SWPPP REQUIREMENTS.

D. CONTRACTOR TO FIELD ADJUST ALL EXISTING SITE UTILITIES TO NEW FINISH GRADES. EXISTING UTILITIES INCLUDE, BUT ARE NOT LIMITED TO, FIRE HYDRANTS, MANHOLE RIMS, INLETS, WATER VALVES AND LIGHT BASES.

E. FOR PATCHING USE PAVEMENT MIX PER CITY OF CHICO STANDARD SPECIFICATIONS.

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ISSUE & REVISION Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

OVERALL GRADING PLANS

LG100

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IF LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG, ATTHIS PLOT SCALE IS CORRECT

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, IN PROPER REGISTRATION

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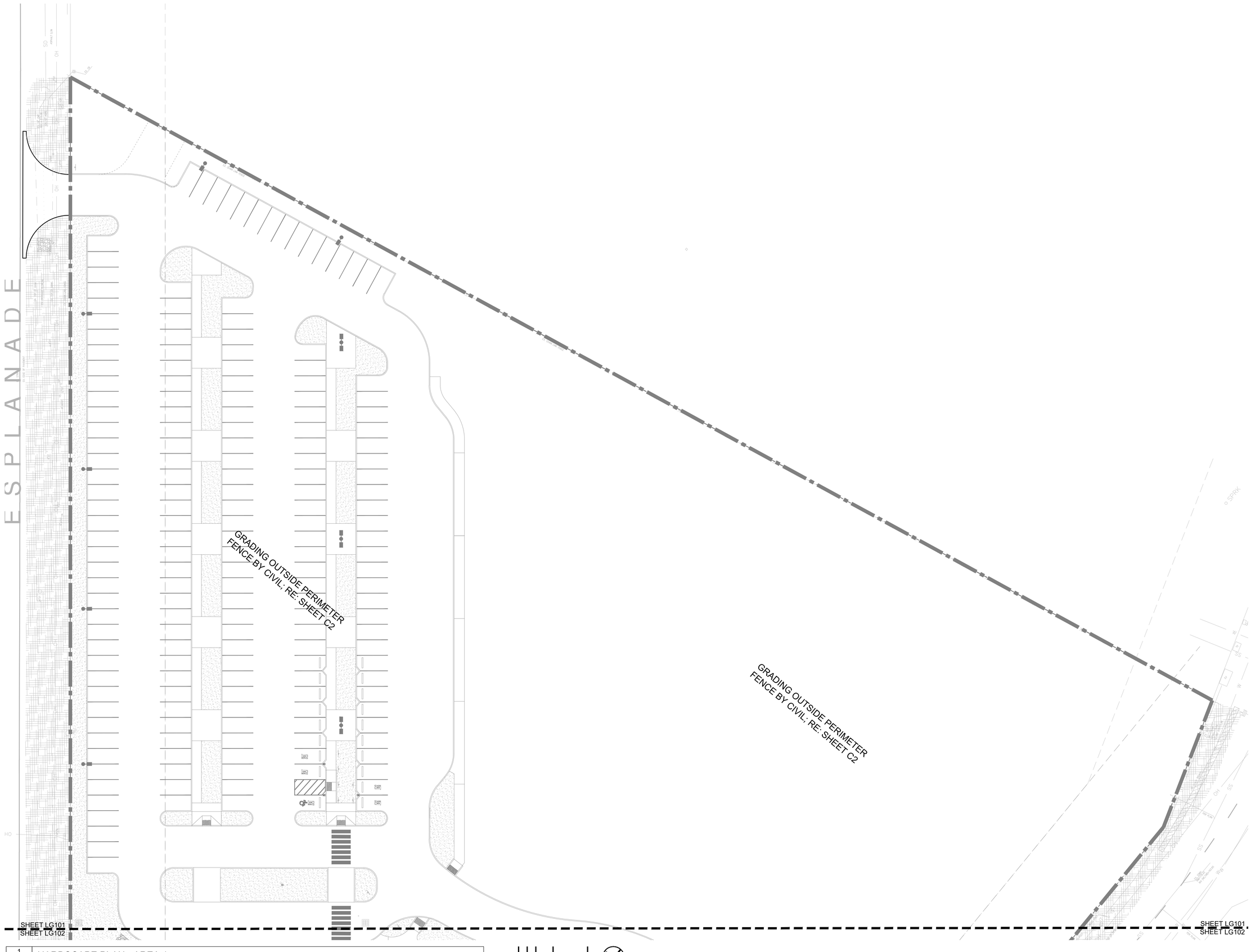

1 LG101 HARDSCAPE PLAN - AREA 1

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No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

GRADING PLANS - AREA 1

LG101

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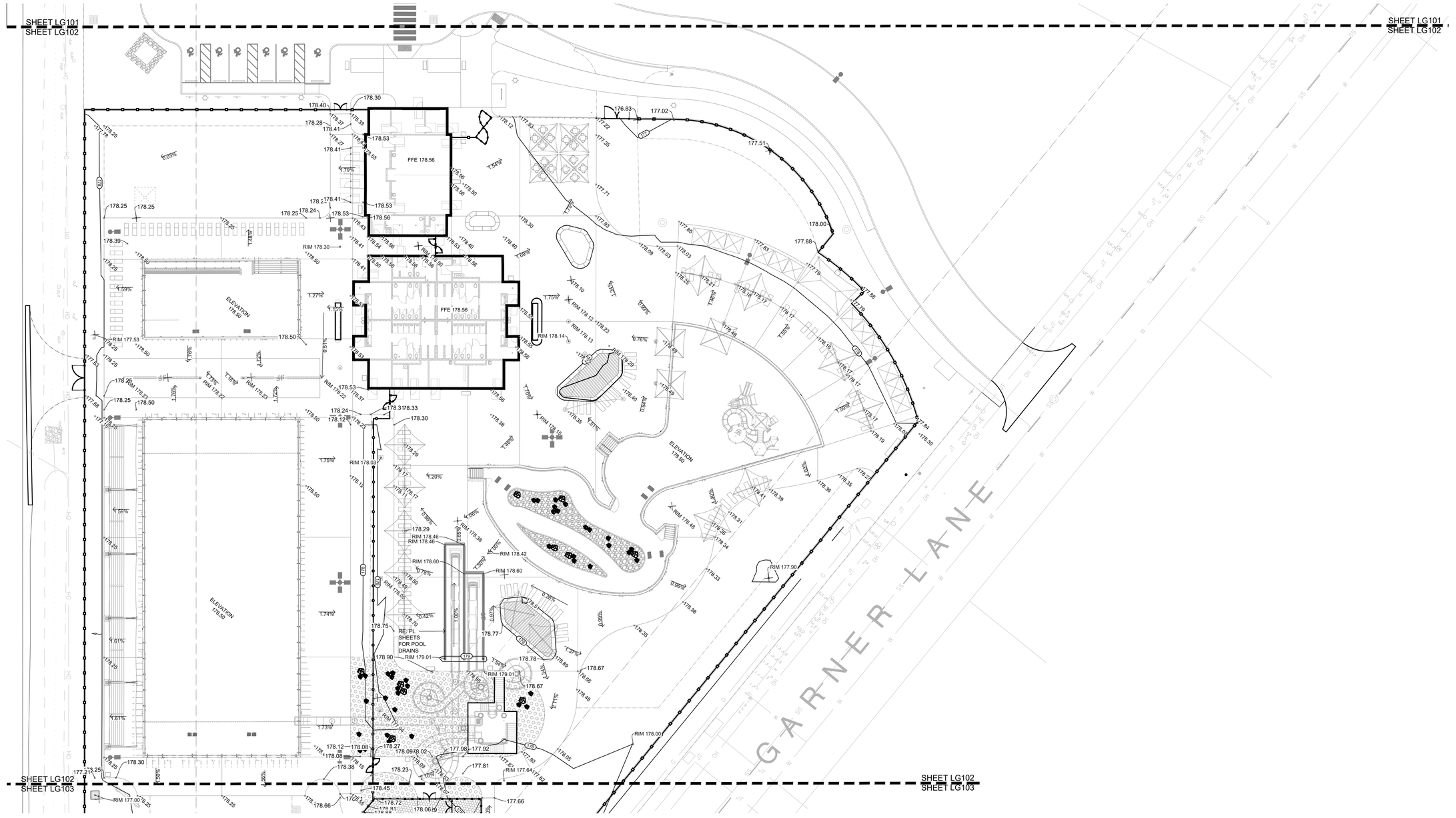

1 LG102 HARDSCAPE PLAN - AREA 2

0' 10' 20' 40'

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GRADING PLANS - AREA 2

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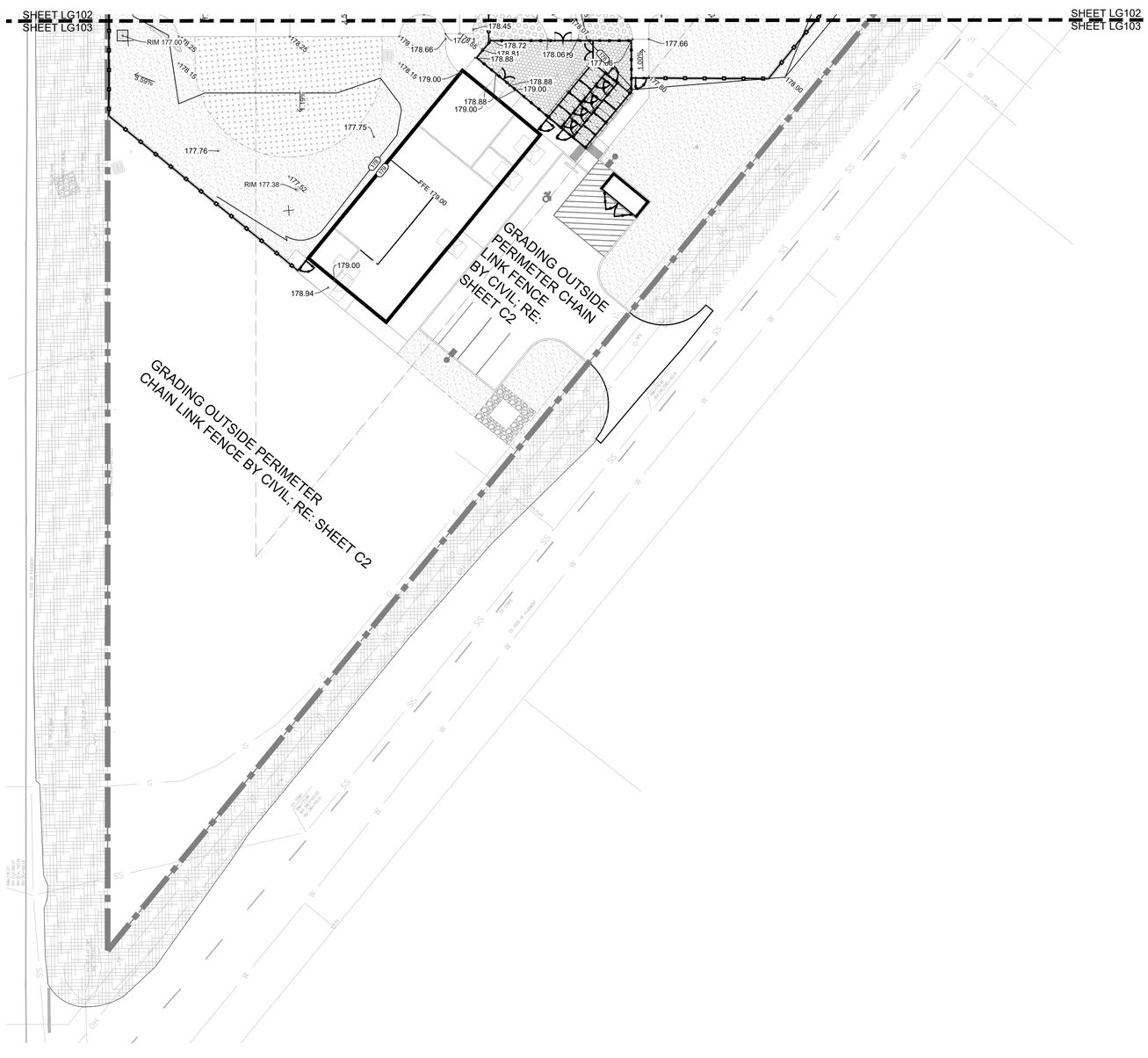

1 LG103 HARDSCAPE PLAN - AREA 3

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GRADING PLANS - AREA 3

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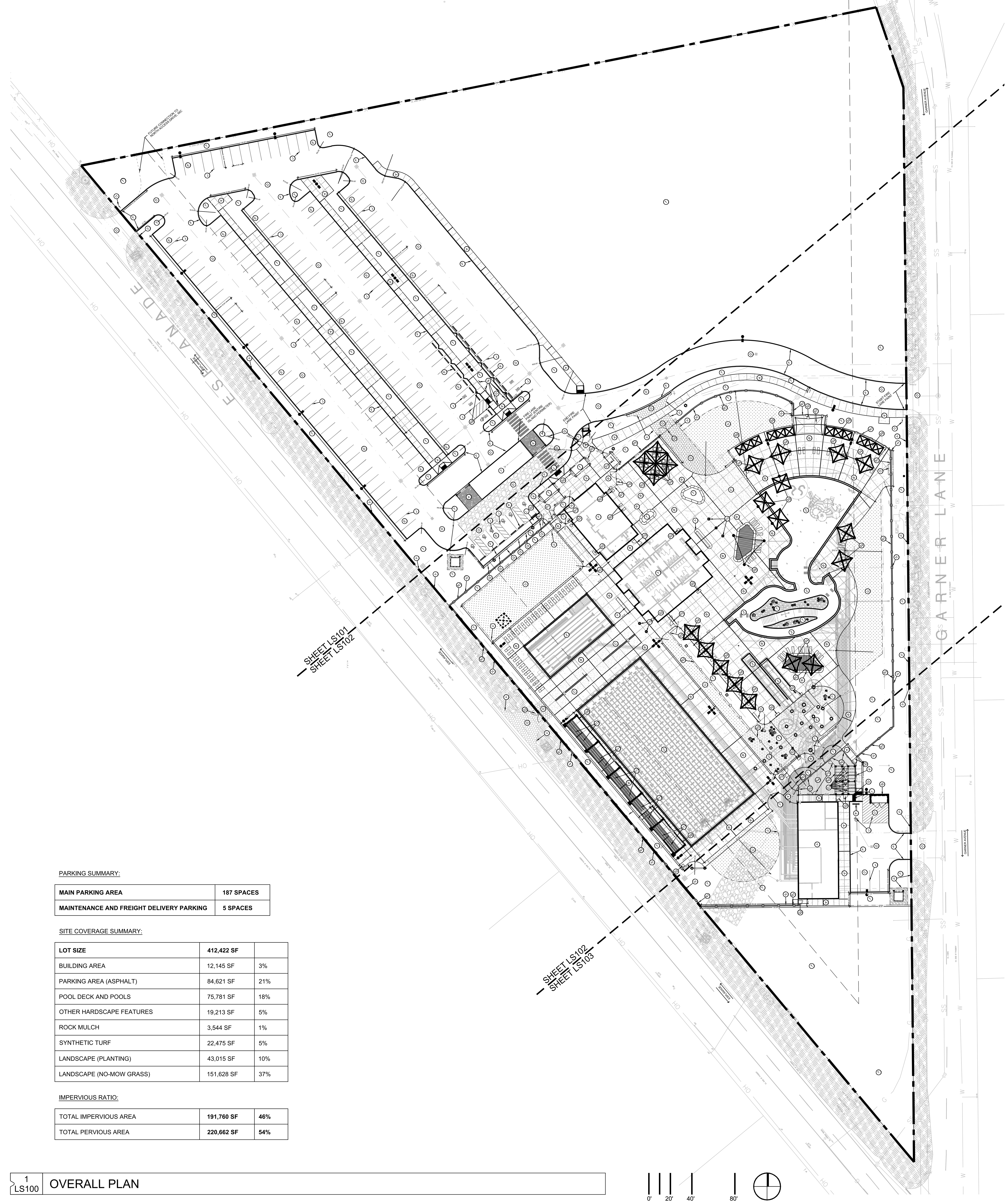

PARKING SUMMARY:

MAIN PARKING AREA	**187 SPACES**
MAINTENANCE AND FREIGHT DELIVERY PARKING	**5 SPACES**

SITE COVERAGE SUMMARY:

LOT SIZE	**412,422 SF**	
BUILDING AREA	12,145 SF	3%
PARKING AREA (ASPHALT)	84,621 SF	21%
POOL DECK AND POOLS	75,781 SF	18%
OTHER HARDSCAPE FEATURES	19,213 SF	5%
ROCK MULCH	3,544 SF	1%
SYNTHETIC TURF	22,475 SF	5%
LANDSCAPE (PLANTING)	43,015 SF	10%
LANDSCAPE (NO-MOW GRASS)	151,628 SF	37%

IMPERVIOUS RATIO:

TOTAL IMPERVIOUS AREA	**191,760 SF**	**46%**
TOTAL PERVIOUS AREA	**220,662 SF**	**54%**

1 LS100 OVERALL PLAN

SITE LAYOUT NOTES

A. REFERENCE ALL DRAWINGS SHEETS AND SPECIFICATIONS THROUGHOUT THE CONSTRICTION DOCUMENTS. NOT ALL NOTES ARE ON THIS SHEET. REFER TO OTHER DIVISIONS FOR ALL WORK.

B. ALL CURB AND GUTTER DIMENSIONS ARE TO FACE OF CURB. ALL SIDEWALK DIMENSIONS ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.

C. WHEN CONTROL POINTS ARE PROVIDED THE CONTRACTOR SHALL VERIFY CONTROL POINTS PRIOR TO CONSTRUCTION.

D. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION STAKING AND ANY RELATED WORK TO ESTABLISH BENCHMARKS. LANDSCAPE ARCHITECT AND/OR CIVIL ENGINEER CAN PROVIDE DIGITAL FILES, BUT IS NOT RESPONSIBLE FOR FILE TYPE OR CONVERSION NEEDS.

E. ALL RAMPS AND CURB RAMPS SHALL COMPLY WITH FEDERAL AND LOCAL ACCESSIBILITY STANDARDS.

F. CONTRACTOR TO SUPPLY AND INSTALL ALL NECESSARY SLEEVES UNDER PAVING AND WALKS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR.

G. SITE PLAN SHOWS DIAGRAMMATIC LAYOUT OF CONTROL JOINTS. UNLESS NOTED OTHERWISE EXPANSION JOINTS SHALL BE PLACED AT A MAXIMUM OF 35' O.C. AND ADJACENT TO FIXED VERTICAL STRUCTURES SUCH AS WALLS, CURBS, STEPS AND BUILDINGS.

H. PROPOSED SIGNAGE TO MEET LOCAL SIGN CODES. CONTRACTOR SHALL SECURE SIGN PERMITS WHERE REQUIRED.

FIRE SAFETY CONSTRUCTION NOTES

A. APPROVED FIRE APPARATUS ACCESS ROADS SHALL BE PROVIDED AS SOON AS CONSTRUCTION COMMENCES. IF PAVING IS NOT INSTALLED PRIOR TO BUILDING CONSTRUCTION COMMENCING AFTER FOOTING INSTALLED, AN APPROVED ROUTE AROUND THE EXTERIOR WALLS SHALL BE PROVIDED AND COMPLY WITH THE REQUIREMENTS OF SECTION 503.2 OF THE IFC.

ELECTRICAL SAFETY CONSTRUCTION NOTES

A. ENSURE THAT ALL METALLIC COMPONENTS WITHIN 5 FEET HORIZONTALLY AND 12 FEET VERTICALLY OF THE POOL'S INSIDE WALLS — INCLUDING BUT NOT LIMITED TO REBAR, FENCES, SHADE STRUCTURES, SITE LIGHTING, EXTERIOR SHOWERS, LOCKERS — ARE BONDED TO THE POOL'S EQUIPOTENTIAL BONDING GRID IN ACCORDANCE WITH NEC ARTICLE 680.26(B).

B. AN EQUIPOTENTIAL BONDING GRID SHALL COMPLETELY SURROUND THE PERIMETER OF THE POOL AND EXTEND 3 FEET HORIZONTALLY FROM THE INSIDE WALLS OF THE POOL IN ACCORDANCE WITH NEC ARTICLE 680. THE GRID SHALL BE 6'X6' W1.4XW1.4 WELDED WIRE MESH (WWM) GRID. BOND THE WWM TO THE POOL REINFORCING STEEL AS REQUIRED BY NEC ARTICLE 680.

C. REFER TO AQUATIC AND ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION.

(#) KEYNOTES

A) PAVING TYPE 1 (SIDEWALK); RE: 1/LS500
B) PAVING TYPE 2 (POOL DECK); RE: 2/LS500
C) PAVING TYPE 3 (REINFORCED); RE: 3/LS500
D) ASPHALT TYPE 1 (DRIVE); RE: CIVIL SHEET
E) ASPHALT TYPE 2 (PARKING); RE: CIVIL SHEET
F) CURB; RE: CIVIL SHEETS
G) GRASSPAVE 2; RE: 13/LS500
H) CONCRETE MOW STRIP; RE: 7/LS500
I) SIGN; RE: SCHEDULE C/LS100
J) STRIPING; RE: SPECS
K) WHEEL STOP; RE: 14/LS500
L) ADA RAMP; RE: CIVIL SHEETS
M) NOT USED
N) FENCING; RE: SCHEDULE A/LS100
O) LOCKERS; RE: 9/A800
P) DOUBLE GATE; RE: SCHEDULE A/LS100
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S) SITE FURNITURE; RE: SCHEDULE B/LS100
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Z) POOL/AQUATICS; RE: AQUATICS SHEETS
AA) GRAVEL PAVING; RE: 18/LS500
AB) EV CHARGING STATION; RE: ELECTRIC SHEETS
AC) DECK; RE: LS504 SHEET

SITE FENCE & GATES; SCHEDULE A

KEYNOTE	QTY	PRODUCT	MANUFACTURE	MODEL/OPTIONS	COLOR	MOUNTING	DETAIL
N1	1,362 LF	CHAIN LINK, PermaCoat	Ameristar	6' HT, VINYL	BLACK	SURFACE	1/LS502
N2	200 LF	CHAIN LINK w/ Mesh Screen	Ameristar	8' HT, VINYL	BLACK	EMBED	2/LS502
N3	200 LF	PICKETS; Montage Plus	Ameristar	4' HT	BLACK	EMBED	3/LS502
Q1	11 EA	CHAIN LINK GATE	Ameristar	8' HT x 4' W, VINYL	BLACK	EMBED	5/LS502
Q2	1 EA	CHAIN LINK GATE w/ Panic	Ameristar	6' HT x 5' W, VINYL	BLACK	EMBED	8/LS502
Q3	2 EA	DOUBLE VEHICULAR GATES	Ameristar	6' HT x 12' W, VINYL	BLACK	EMBED	4/LS502
P1	1 EA	DOUBLE CHAIN LINK GATES	Ameristar	6' HT x 10' W, VINYL	BLACK	SURFACE	6/LS502
P2	3 EA	DOUBLE CHAIN LINK GATES	Ameristar	8' HT x 6' W, VINYL	BLACK	EMBED	9/LS502
P3	3 EA	DOUBLE PICKET GATES	Ameristar	4' HT X 4' W	BLACK	EMBED	7/LS502
P4	2 EA	CUSTOM GATES w/ Panic	Border Concepts	Custom	Borcon	EMBED	4/LS501
P5	30 LF	CUSTOM SCREEN FENCE	Border Concepts	Custom	Borcon	EMBED	6/LS501

SITE FURNITURE; SCHEDULE B

KEYNOTE	QTY	PRODUCT	MANUFACTURE	MODEL/OPTIONS	COLOR	MOUNTING	DETAIL
S0	8	BENCH	Anova	AE2680LF; 6'	Teal/Fern	Surface	1/LS503
S1	1	BIKE RACK	Anova	LBR7PSURF; 5-loop	Teal	In-grade	2/LS503
S2	9	RUBBISH RECEPTACLE	Global Industrial	WB260804BK	Black	Surface	
S3	4	TABLE	Anova	AE26T48	Teal/Fern	Surface	
S3	16	CHAIR	Anova	AE26T60-LF	Teal/Fern	Surface	
S4	17	SINGLE POLE SHADE	Landscape Structures	237668; 10' SQ	Teal/Fern	In-grade	3/LS503
S5	3	CANTILEVER POLE SHADE	Landscape Structures	237672; 10' SQ	Teal/Fern	In-grade	4/LS503
S6	1	TRI-POLE SHADE	Landscape Structures	237677; 20'	Teal/Fern	In-grade	5/LS503
S7	1	RECTANGULAR SHADE	Landscape Structures	237676;14'X22'	Teal/Fern	In-grade	6/LS503
S8	5	CANTILEVER REC SHADE	Landscape Structures	216042; 20' X 36'	Teal/Fern	In-grade	7/LS503
S9	12	CABANA	Shelter Outdoor	8 X 8	Teal/Fern	Surface	8/LS503
S10	4	SHOWER, COLUMN	Bradley Corp	COL-4C	Stainless	In-grade	9/LS503
S11	10	BLEACHER; 4 Row-Tip & Roll	PW Athletic	1171-415TRA; 15'	Clear Anodized	N/A	
NOTE:	SEE ALTERNATE SPECIFICATION 01 23 00						

SITE SIGNAGE; SCHEDULE C

KEYNOTE	QTY	SIGN TYPE	DETAIL
I1	2	STOP	16/LS500
I2	2	DO NOT ENTER	16/LS501
I3	8	ADA PARKING	16/LS502
I4	6	EV PARKING	16/LS503

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OVERALL HARDSCAPE PLAN

LS100

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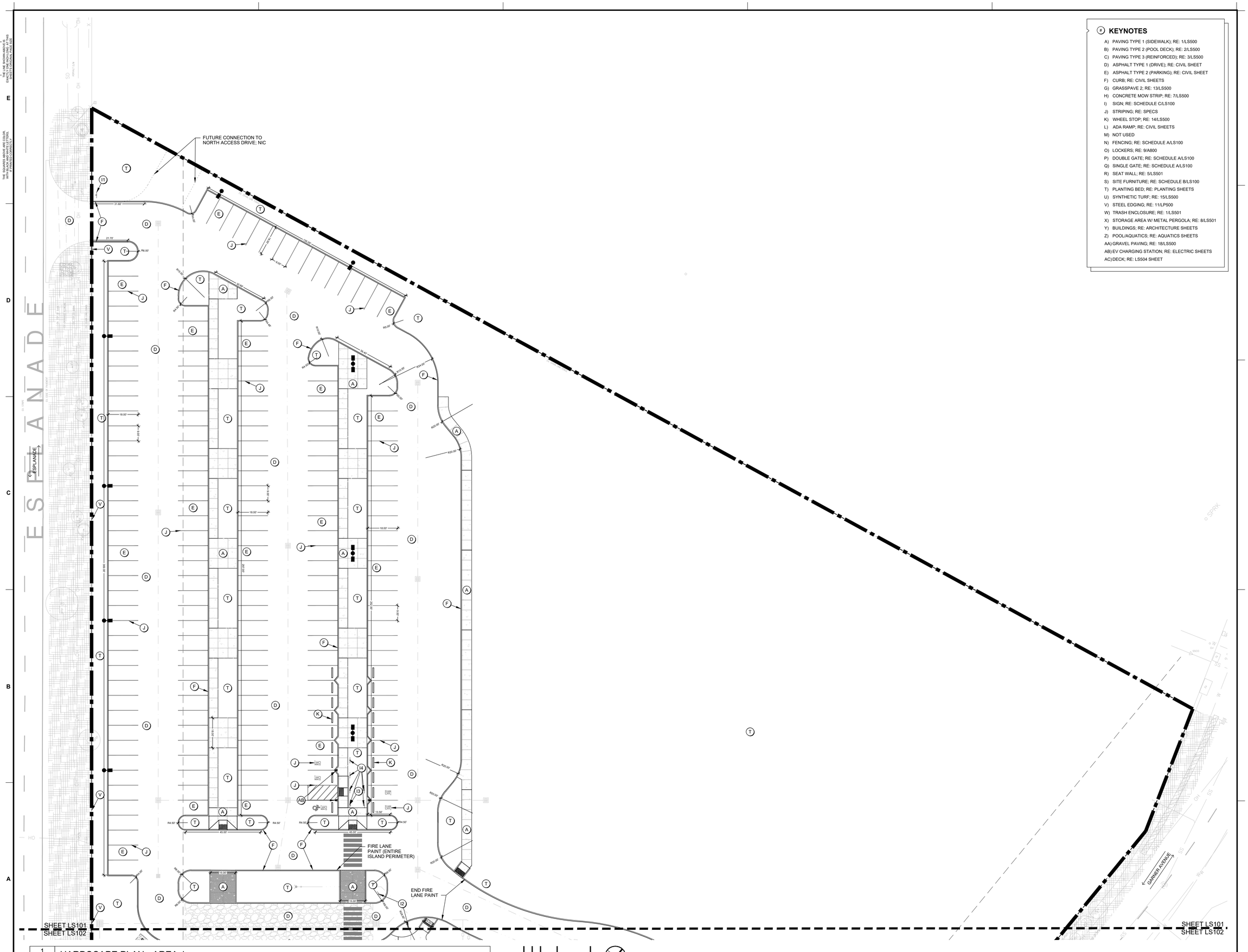

1 LS101 HARDSCAPE PLAN - AREA 1

0' 10' 20' 40'

KEYNOTES

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HARDSCAPE PLAN AREA 1

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SHEET LS102
SHEET LS103

SHEET LS102
SHEET LS103

ESPLANADE

GARNER LANE

START FIRE LANE PAINT

1 LS102 HARDSCAPE PLAN - AREA 2

0' 10' 20' 40'

KEYNOTES

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HARDSCAPE PLAN AREA 2

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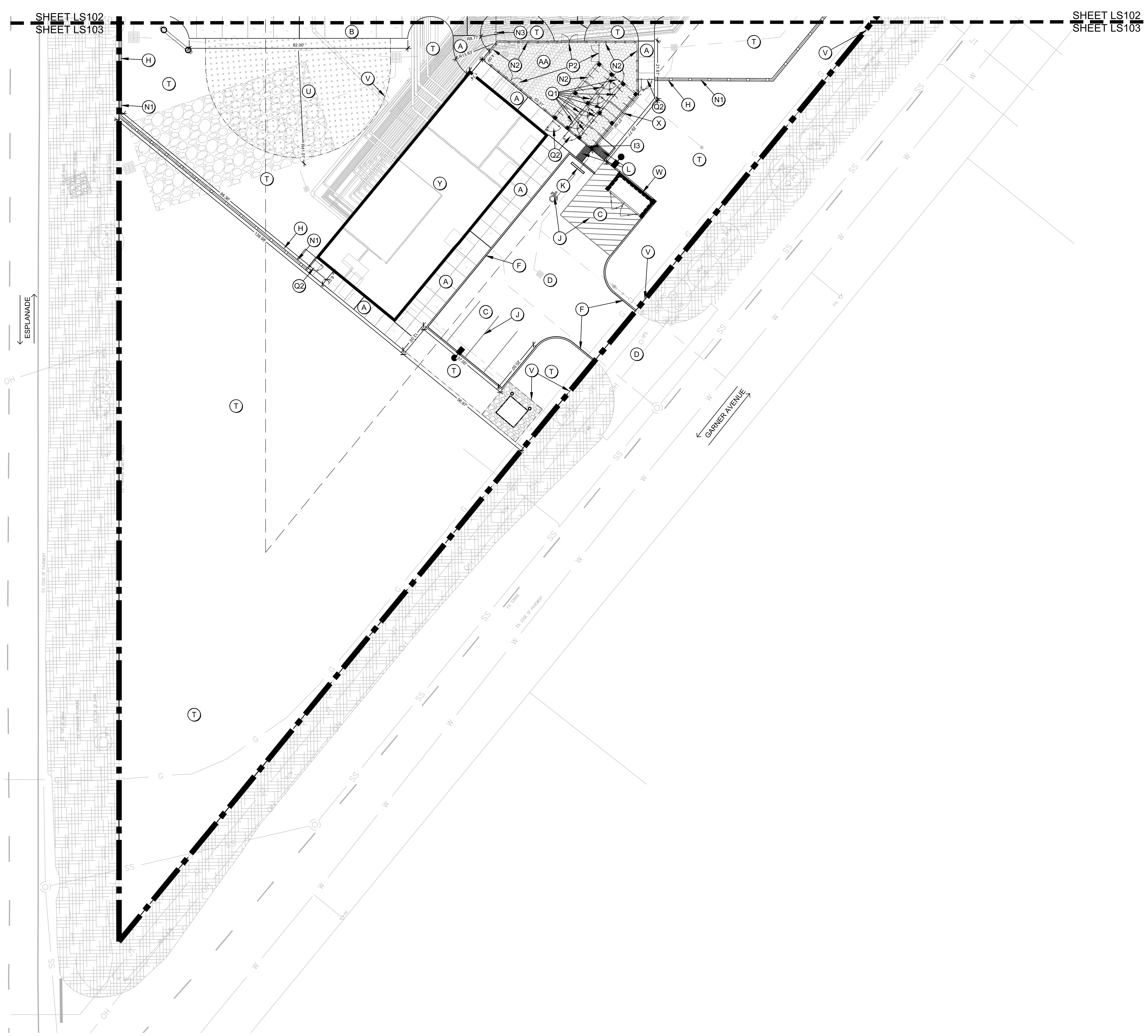

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HARDSCAPE PLAN
AREA 3

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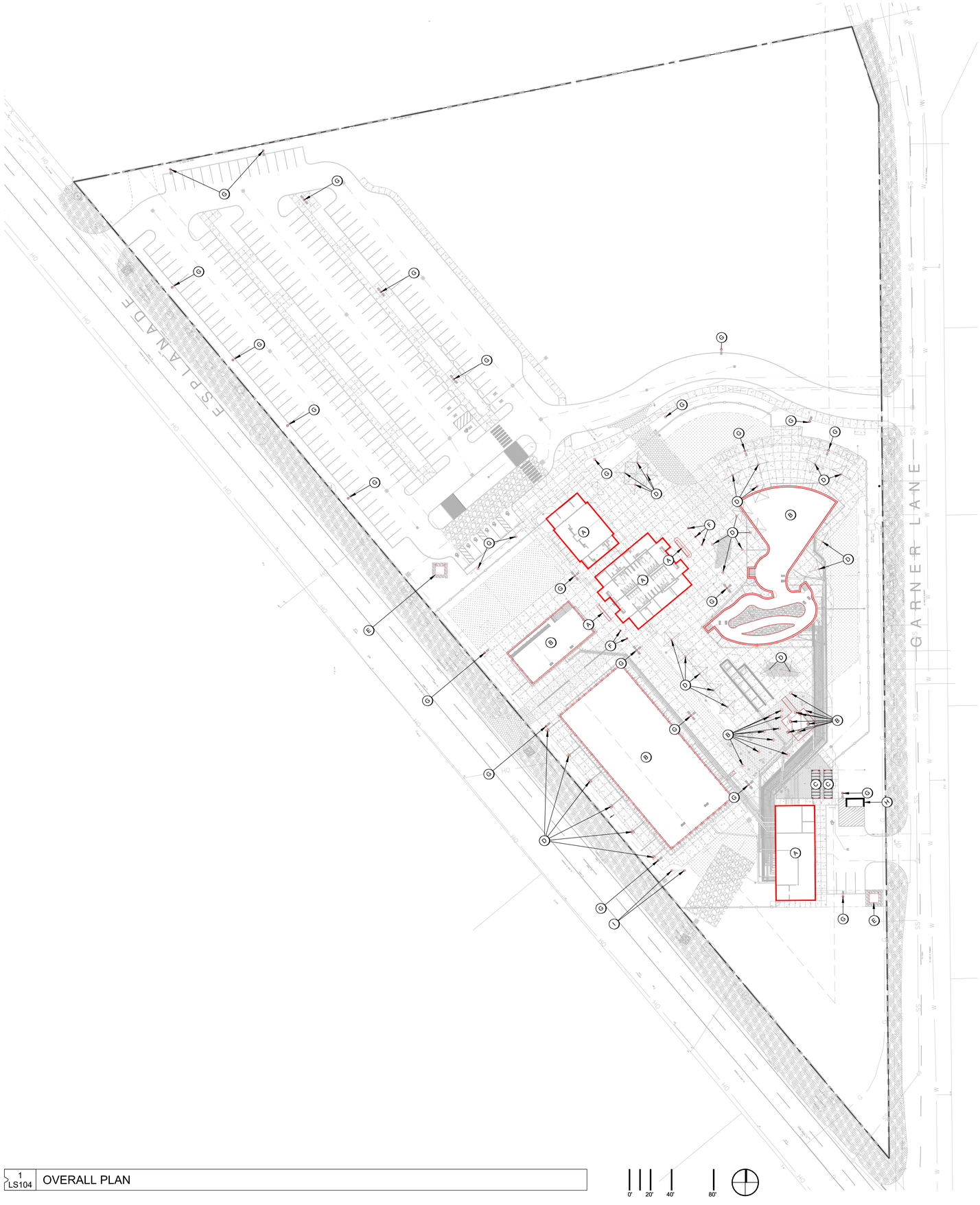

1 LS104 OVERALL PLAN

SITE FOOTING LAYOUT NOTES

A. THIS DRAWING IS SHOWING THE LOCATIONS OFF FOUNDATIONS FOR THE SITE ELEMENTS. CHECK ALL SHEETS TO VERIFY ALL INFORMATION.

B. THIS SHEET MUST BE PRINTED IN COLOR TO DISPLAY AND CONVEY ALL THE NECESSARY INFORMATION.

FOOTINGS

A) ARCHITECTURE; RE: ARCHITECTURE SHEETS
B) POOL; RE: POOL SHEETS
C) STORAGE; RE: 7/LS501
D) SHADE; RE: 10/LS503
E) ELECTRICAL; RE: ELECTRICAL SHEETS
F) SHOWER; RE: 9/LS503
G) LIGHTING; RE: ELECTRICAL SHEETS
H) TRASH; RE: 1/LS501
I) FUTURE TIMECLOCK BOARD SIGN, NIC. SHOWN FOR LOCATION ONLY.

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CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

SITE FOUNDATION PLAN

LS104

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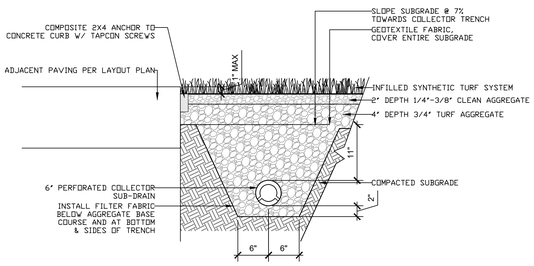
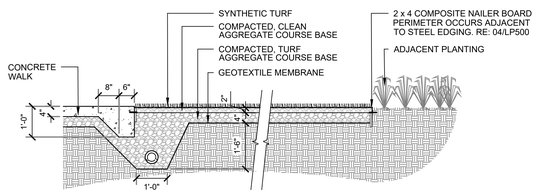
IF LINE SHOWN ABOVE IS NOT EXACTLY ONE INCH LONG AT THIS SCALE, ADJUST ACCORDINGLY

C M Y K

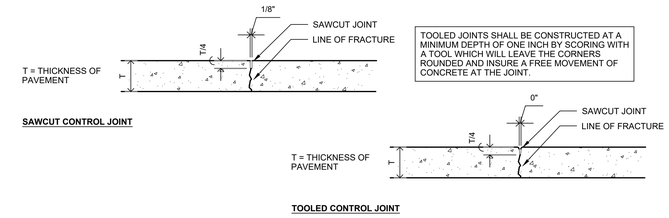
THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, FOR REPRODUCIBILITY



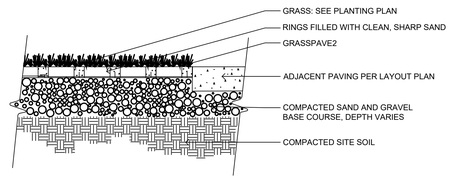
21 LS500 SYNTHETIC GRASS DRAIN, TYP. N.T.S



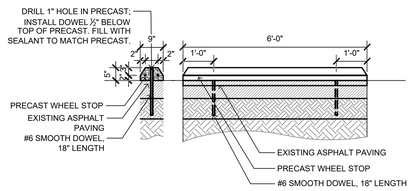
15 LS500 SYNTHETIC GRASS, TYP N.T.S



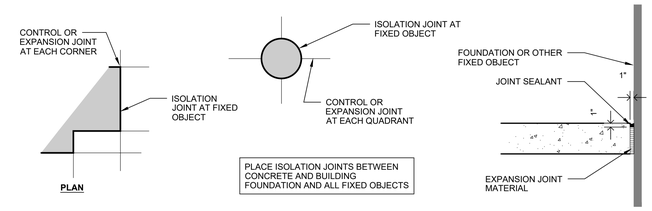
9 LS500 CONTROL JOINT TYP N.T.S



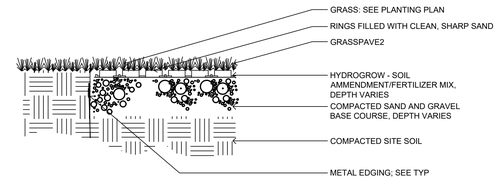
20 LS500 GRASSPAVE2 PCC EDGE, TYP N.T.S



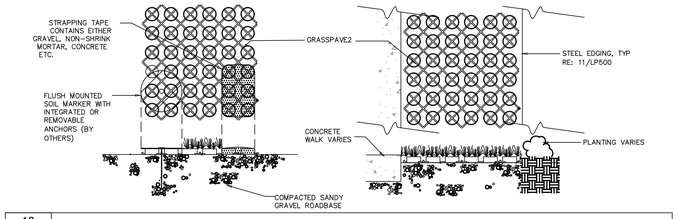
14 LS500 WHEEL STOP TYP N.T.S



8 LS500 ISO JOINT TYP N.T.S



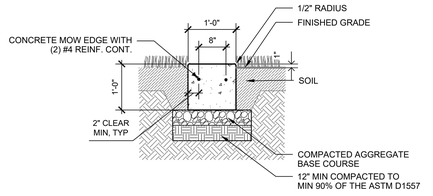
19 LS500 GRASSPAVE2 STEEL EDGE, TYP N.T.S



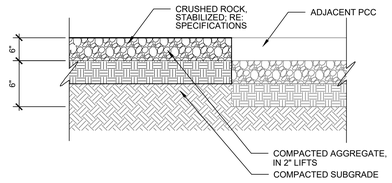
13 LS500 GRASSPAVE 2 TYP N.T.S

1/2" PREFORMED EXPANSION JOINT FILLER SHALL BE PLACED TRANSVERSELY ALONG THE CURB EVERY 40'.

CONTROL JOINTS SHALL BE PLACED 10'-0" O.C. MAX.

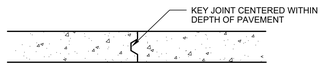


7 LS500 CONCRETE MOW STRIP TYP SCALE: 3/4" = 1'-0"

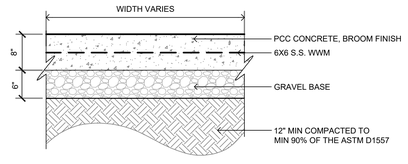


18 LS500 GRAVEL PAVING TYP N.T.S

CONSTRUCTION JOINTS SHALL BE PLACED BETWEEN INDIVIDUAL POURS OF CONCRETE WHERE EXPANSION JOINTS DO NOT OCCUR.

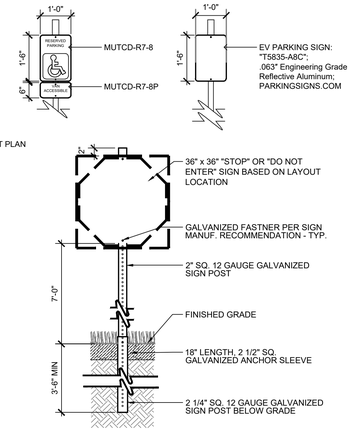


12 LS500 CONSTRUCTION JOINT TYP N.T.S



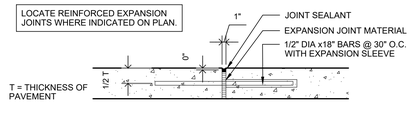
3 LS500 PAVING TYPE 3 (REINF PPC) TYP N.T.S

NOTES:
1. SIGNS TO CONFORM TO MUTCD STANDARDS
2. SUBMIT CUT SHEETS OF POLE, SIGNAGE, CAP FOR APPROVAL.
3. ADA SIGN 1 IS MUTCD-R7-8 AND GOES FOR ACCESSIBLE RESERVED PARKING.
4. ADA SIGN 2 IS MUTCD-R7-8P AND GOES FOR VAN ACCESSIBLE.
5. SIGN 2 TO FOLLOW SIGN 1 PER VAN ACCEPTABLE LOCATIONS PER PARKING ON LAYOUT PLAN LS100.
6. SIGN 3 IS EV PARKING SIGN.
7. "DO NOT ENTER" SIGN IS MUTCD R5-1.



16 LS500 POST SIGNS TYP N.T.S

LOCATE REINFORCED EXPANSION JOINTS WHERE INDICATED ON PLAN.

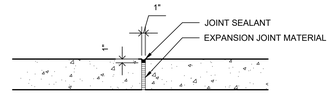


11 LS500 REINF. EXPANSION JOINT TYP N.T.S

ALL EXPANSION JOINTS IN WALKS SHALL BE SEALED WITH A SELF LEVELING URETHANE JOINT SEALANT, ASTM C920 , MULTI-COMPONENT (M), GRADE P, CLASS 25, TRAFFIC (T) EXPOSURE.
COLOR TO BE MANUFACTURERS STANDARD GRAY OR LIMESTONE.

CLEAN, PRIME, AND BACK JOINTS AS RECOMMENDED BY SEALANT MANUFACTURER. INSTALL IN ACCORDANCE WITH ASTM C1193.

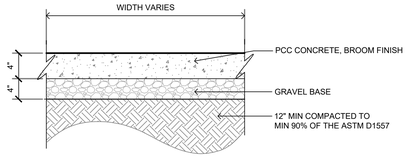
CLEAN OFF EXCESS SEALANT AND SMEARS ADJACENT TO JOINTS AS THE WORK PROGRESSES BY METHODS AND MATERIALS APPROVED IN WRITING BY THE SEALANT MANUFACTURER.



SPACE EXPANSION JOINTS NOT TO EXCEED 35' IN CONCRETE WALKS AND WHERE INDICATED ON PLAN.

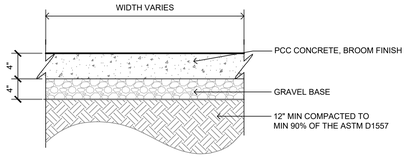
10 LS500 EXPANSION JOINT TYP N.T.S

NOTES:
1. CROSS SLOPE NOT TO EXCEED 2.0%.
2. CONTROL JOINTS TO OCCUR AT SPACING EQUAL TO WIDTH OF SLAB UNLESS INDICATED ON PLAN OR BY LANDSCAPE ARCHITECT.



2 LS500 PAVING TYPE 2 (POOL DECK) TYP N.T.S

NOTES:
1. CROSS SLOPE NOT TO EXCEED 2.0%.
2. CONTROL JOINTS TO OCCUR AT SPACING EQUAL TO WIDTH OF SLAB UNLESS INDICATED ON PLAN OR BY LANDSCAPE ARCHITECT.



1 LS500 PAVING TYPE 1 (SIDEWALK) TYP N.T.S

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CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

SITE DETAILS

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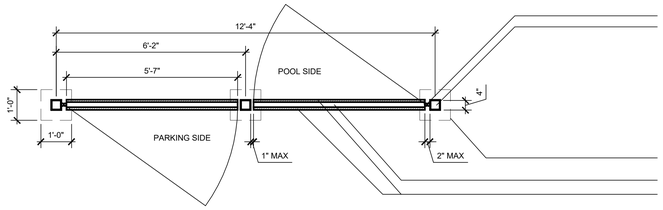
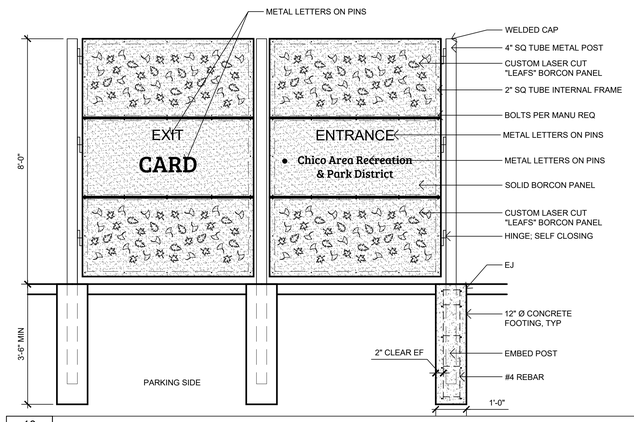
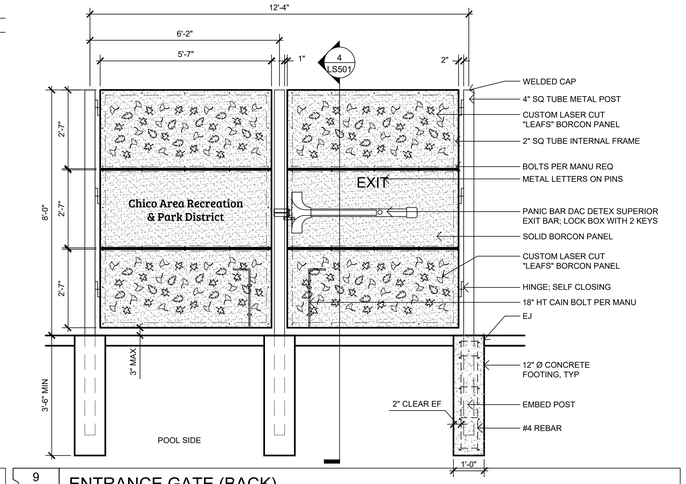
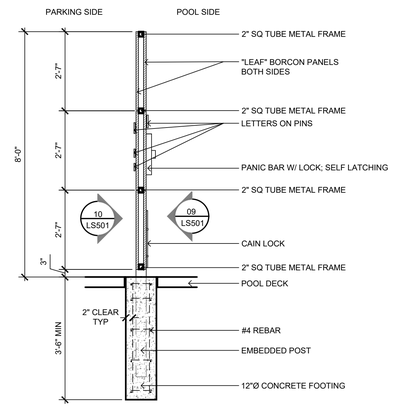




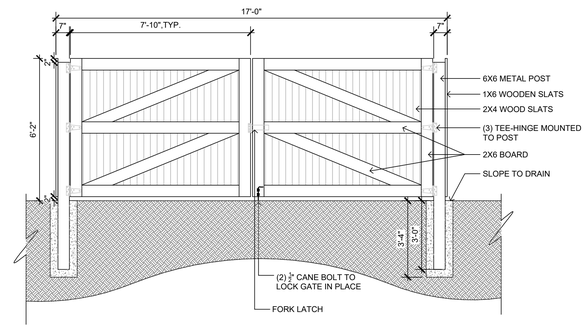
10 LS501 ENTRANCE GATE (FRONT) SCALE: 1/2" = 1'-0"



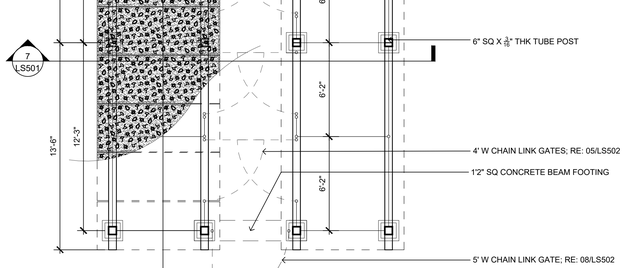
9 LS501 ENTRANCE GATE (BACK) SCALE: 1/2" = 1'-0"



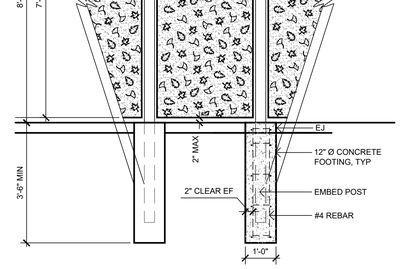
4 LS501 ENTRANCE GATE SECTION SCALE: 1/2" = 1'-0"



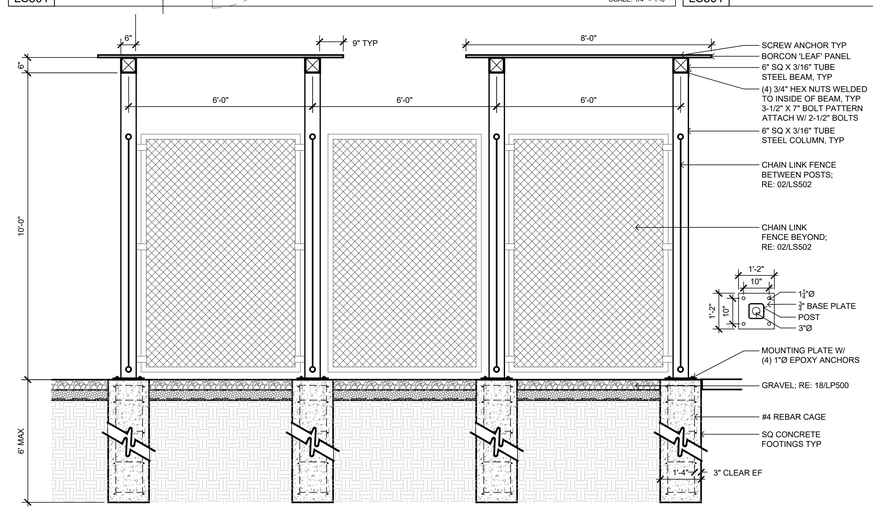
3 LS501 TRASH ENCLOSURE GATES SCALE: 3/8" = 1'-0"



8 LS501 STORAGE ROOF LAYOUT SCALE: 1/4" = 1'-0"

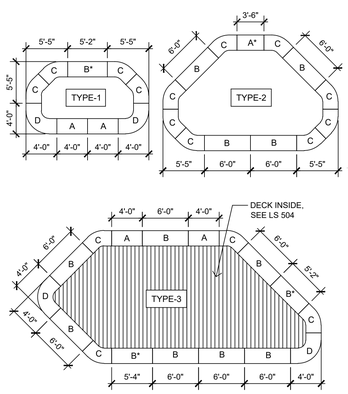


6 LS501 ENTRANCE GATE (BACK) SCALE: 1/2" = 1'-0"



7 LS501 STORAGE ROOF SCALE: 1/2" = 1'-0"

PLAN ENLARGEMENTS:



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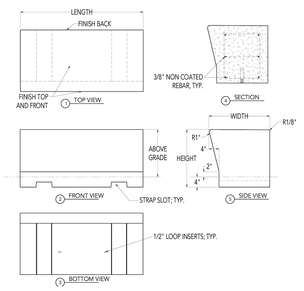


NOTE:

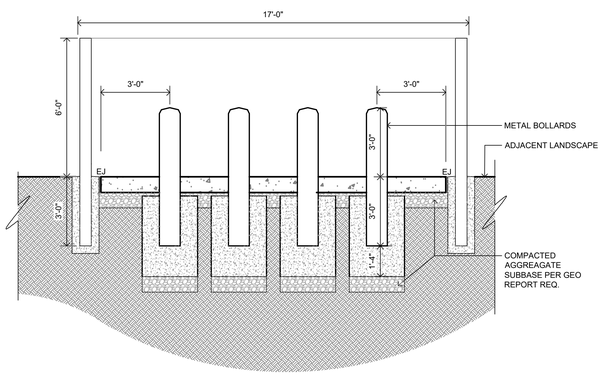
1. "OUR TOWN COLLECTION" PRECAST MODULAR BENCH CURVED

MODEL NUMBER:
- A: WS900
- B: WS902
- C: WS905
- D: WS904

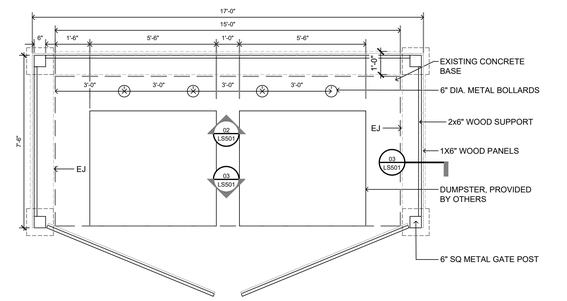
*MODIFY LENGTH AS REQUIRED

2. CONSTRUCTOR TO PROVIDE SHOP DRAWINGS FOR LA APPROVAL

5 LS501 SEAT WALL, PRE CAST SCALE: 1" = 1'-0"



2 LS501 TRASH ENCLOSURE SCALE: 3/8" = 1'-0"



1 LS501 TRASH ENCLOSURE LAYOUT SCALE: 3/8" = 1'-0"

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LS501

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IF LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG, ATTRIBUTES ARE CORRECT SIZE

THE SQUARES ABOVE ARE COLOR WITH BLACK AND WHITE LETTERS, WITH BLACK AND WHITE LETTERS

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IF LINE SHOWN ABOVE IS NOT 1" LONG, SCALE ACCORDINGLY
EXACTLY ONE INCH LONG AT THIS SIZE
C M Y K
THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS.

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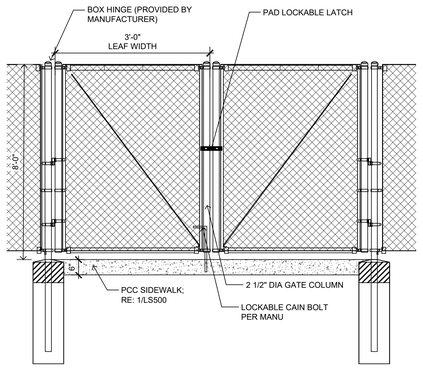
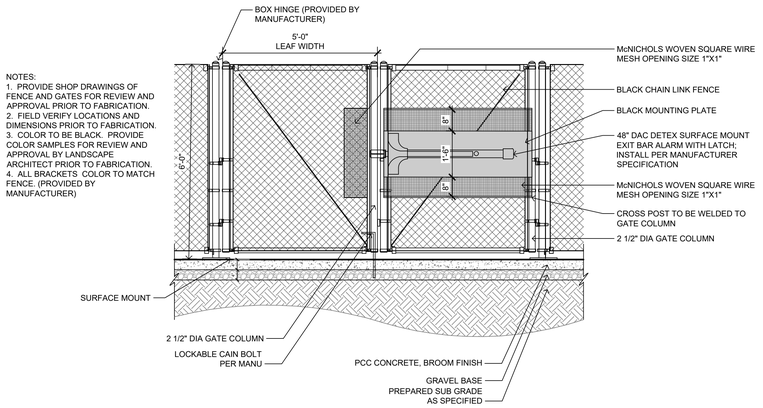


NOTES:
1. PROVIDE SHOP DRAWINGS OF FENCE AND GATES FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
2. FIELD VERIFY LOCATIONS AND DIMENSIONS PRIOR TO FABRICATION.
3. COLOR TO BE BLACK. PROVIDE COLOR SAMPLES FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO FABRICATION.
4. ALL BRACKETS COLOR TO MATCH FENCE. (PROVIDED BY MANUFACTURER)

9 / LS502 GATE, DOUBLE CHAIN LINK TYP — SCALE: 1" = 1'-0"



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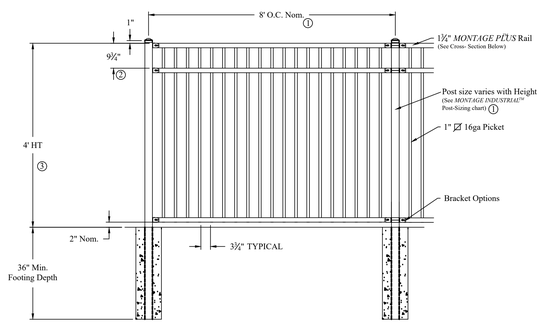
3. COLOR TO BE BLACK. PROVIDE COLOR SAMPLES FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO FABRICATION.
4. ALL BRACKETS COLOR TO MATCH FENCE. (PROVIDED BY MANUFACTURER)

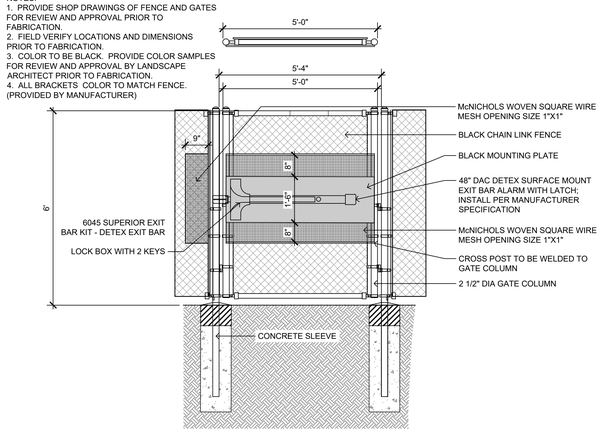
6 / LS502 GATE, DOUBLE CHAIN LINK TYP — SCALE: 1/2" = 1'-0"



NOTES:
1.) Post size depends on fence height and wind loads. See *MONTAGE PLUS* specifications for post sizing chart and dimensions.
2.) Values shown are nominal and not to be used for installation purposes. See product specification for installation requirements.

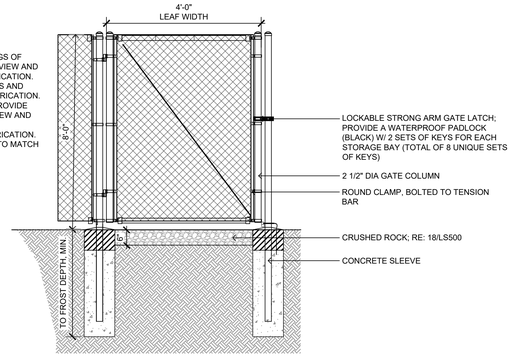
3 / LS502 FENCE PICKET (INTERNAL) TYP — SCALE: 1/2" = 1'-0"

NOTES:
1. PROVIDE SHOP DRAWINGS OF FENCE AND GATES FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
2. FIELD VERIFY LOCATIONS AND DIMENSIONS PRIOR TO FABRICATION.
3. COLOR TO BE BLACK. PROVIDE COLOR SAMPLES FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO FABRICATION.
4. ALL BRACKETS COLOR TO MATCH FENCE. (PROVIDED BY MANUFACTURER)



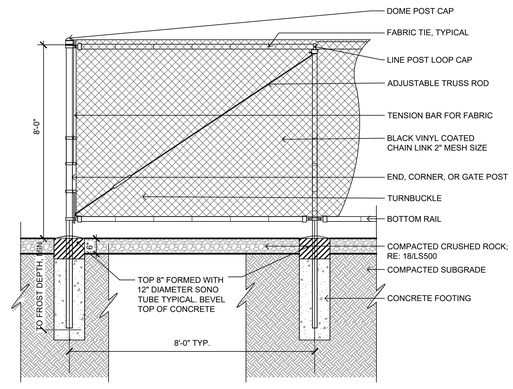
8 / LS502 GATE, SINGLE CHAIN LINK W/ PANIC TYP — SCALE: 1/2" = 1'-0"

NOTES:
1. PROVIDE SHOP DRAWINGS OF FENCE AND GATES FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
2. FIELD VERIFY LOCATIONS AND DIMENSIONS PRIOR TO FABRICATION.
3. COLOR TO BE BLACK. PROVIDE COLOR SAMPLES FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO FABRICATION.
4. ALL BRACKETS COLOR TO MATCH FENCE. (PROVIDED BY MANUFACTURER)

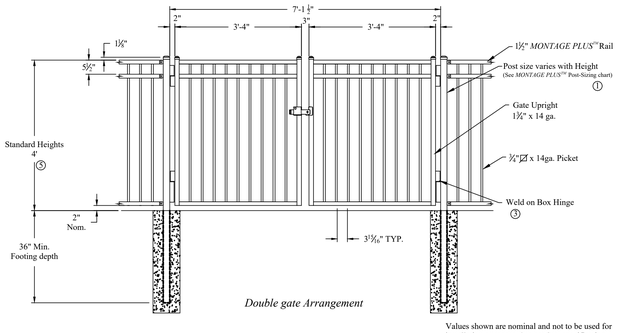


5 / LS502 GATE, SINGLE CHAIN TYP — SCALE: 1/2" = 1'-0"

NOTES:
1. PROVIDE SHOP DRAWINGS OF FENCE AND GATES FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
2. FIELD VERIFY LOCATIONS AND DIMENSIONS PRIOR TO FABRICATION.
3. COLOR TO BE BLACK. PROVIDE COLOR SAMPLES FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO FABRICATION.
4. ALL BRACKETS COLOR TO MATCH FENCE. (PROVIDED BY MANUFACTURER).



2 / LS502 FENCE CHAIN LINK (STORAGE BAYS) TYP — SCALE: 1/2" = 1'-0"

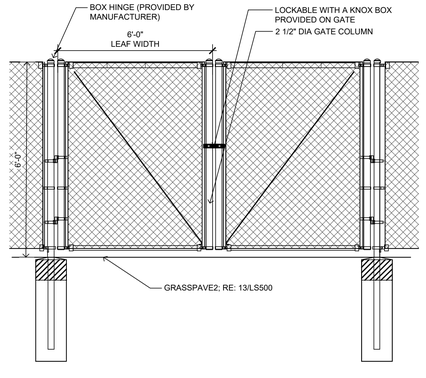


Double gate Arrangement

Values shown are nominal and not to be used for installation purposes. See product specification for installation requirements.

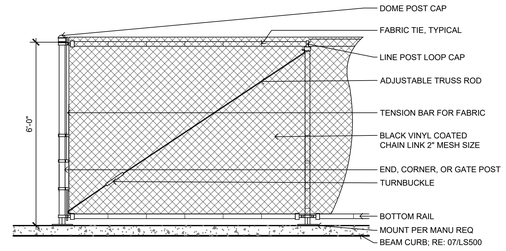
7 / LS502 GATE, DOUBLE PICKET - 7' OPENING — SCALE: 1/2" = 1'-0"

NOTES:
1. PROVIDE SHOP DRAWINGS OF FENCE AND GATES FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
2. FIELD VERIFY LOCATIONS AND DIMENSIONS PRIOR TO FABRICATION.
3. COLOR TO BE BLACK. PROVIDE COLOR SAMPLES FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO FABRICATION.
4. ALL BRACKETS COLOR TO MATCH FENCE. (PROVIDED BY MANUFACTURER)



4 / LS502 VEHICULAR GATE TYP — SCALE: 1" = 1'-0"

NOTES:
1. PROVIDE SHOP DRAWINGS OF FENCE AND GATES FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
2. FIELD VERIFY LOCATIONS AND DIMENSIONS PRIOR TO FABRICATION.
3. COLOR TO BE BLACK. PROVIDE COLOR SAMPLES FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO FABRICATION.
4. ALL BRACKETS COLOR TO MATCH FENCE. (PROVIDED BY MANUFACTURER).



1 / LS502 FENCE CHAIN LINK (PERIMETER) TYP — SCALE: 1/2" = 1'-0"

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
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SITE DETAILS

LS502

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IF LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG, ALL ITEMS ARE PRINTED AT FULL SCALE

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, IN PRINTED PRODUCT

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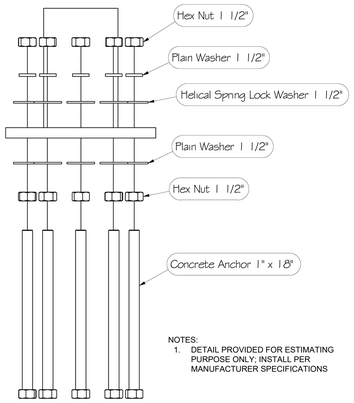
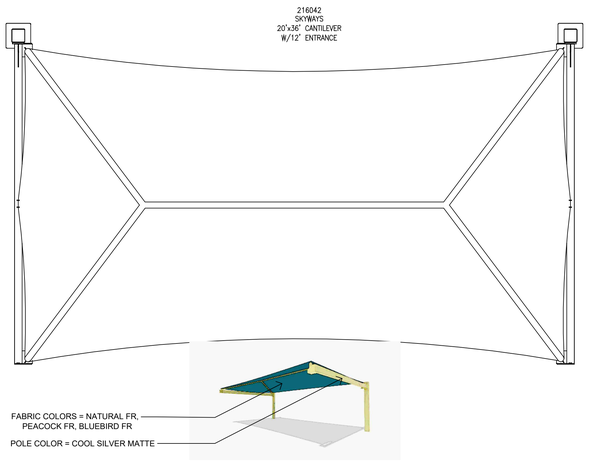
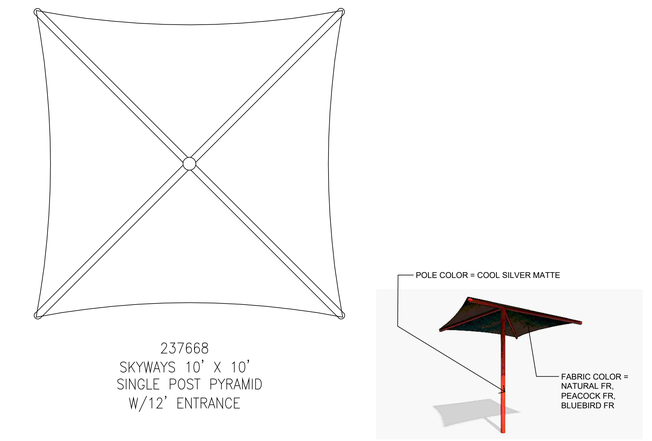


NOTES:
1. DETAIL PROVIDED FOR ESTIMATING PURPOSE ONLY; INSTALL PER MANUFACTURER SPECIFICATIONS

11 LS503 TYPICAL ANCHOR BOLTING DETAIL N.T.S



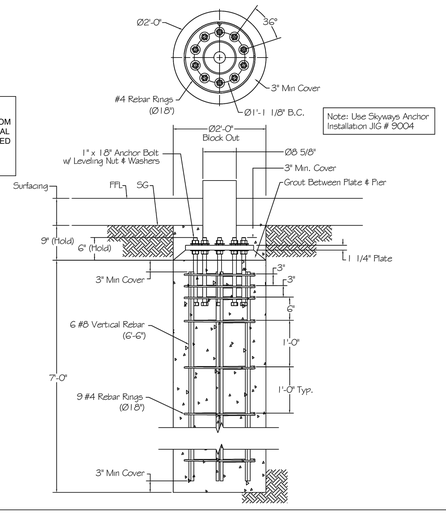
7 LS503 BLEACHER SHADE SCALE: 1/4" = 1'-0"



3 LS503 SINGLE POLE SHADE SCALE: 1/2" = 1'-0"

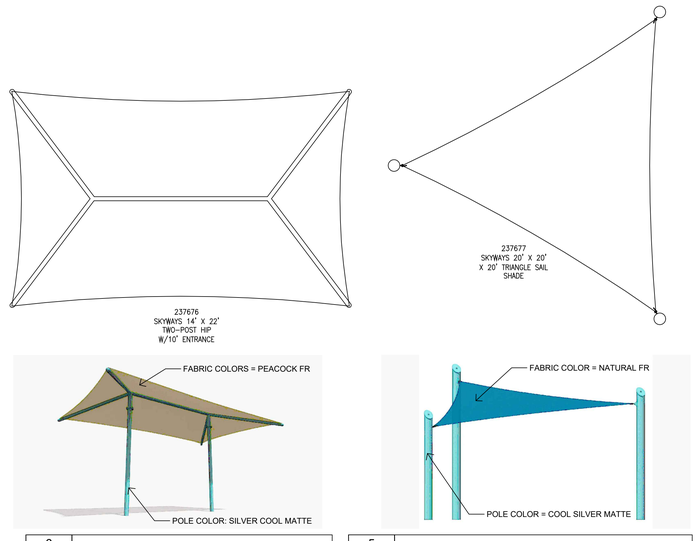
FOOTING DESIGN
FOOTING DESIGN IS FOR BIDDING PURPOSES ONLY. FINAL FOOTING DESIGN TO BE PROVIDED BY SHADE STRUCTURE MANUFACTURER DURING THE SHOP DRAWING PROCESS. PRICING ADJUSTMENTS WILL BE MADE USING THE UNIT PRICE FOR CAST IN PLACE CONCRETE.

PERMITS
THE CONTRACTOR MAY BE REQUIRED TO OBTAIN ALL REQUIRED BUILDING PERMITS FROM THE CITY OF CHICO. SHOP DRAWING SUBMITTAL SHALL INCLUDE MANUFACTURER'S ENGINEERED SHOP DRAWINGS. DRAWINGS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF CALIFORNIA.



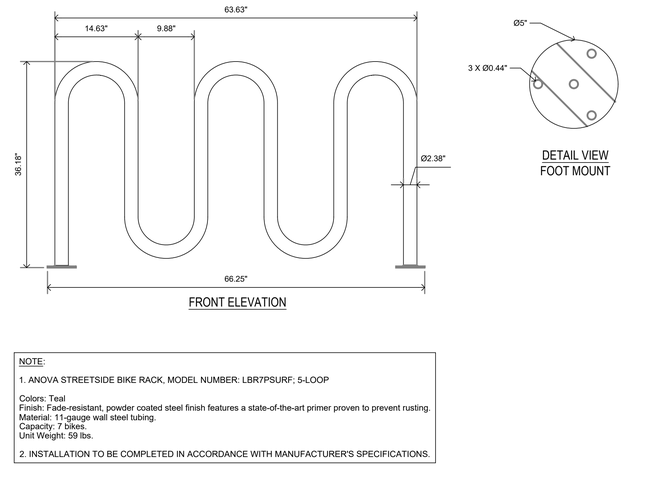
Note: Use Skyways Anchor Installation JIG # 9004

10 LS503 TYPICAL SHADE STRUCTURE FOUNDATION DETAIL N.T.S



6 LS503 REC SHADE SCALE: 1/4" = 1'-0"

5 LS503 TRI-POLE SHADE SCALE: 1/4" = 1'-0"



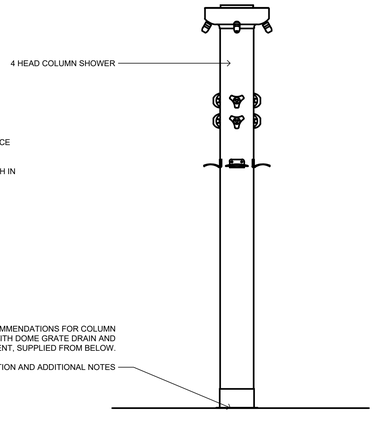
NOTE:

1. ANOVA STREETSIDE BIKE RACK, MODEL NUMBER: LBR7PSURF; 5-LOOP

Colors: Teal
Finish: Fade-resistant, powder coated steel finish features a state-of-the-art primer proven to prevent rusting.
Material: 11-gauge wall steel tubing.
Capacity: 7 bikes.
Unit Weight: 59 lbs.

2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

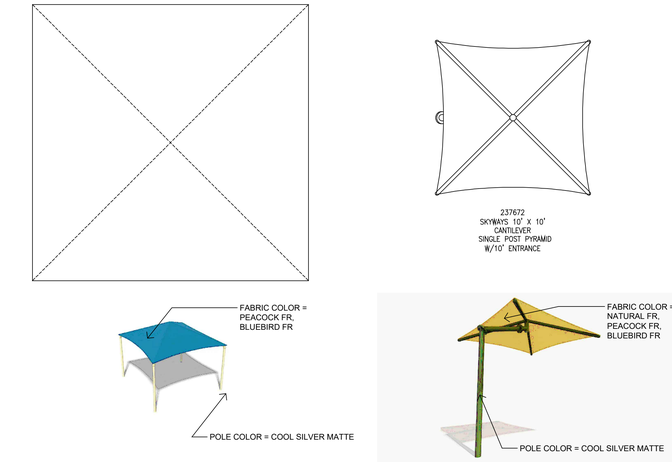
2 LS503 BIKE RACK SCALE: 1" = 1'-0"



NOTES:

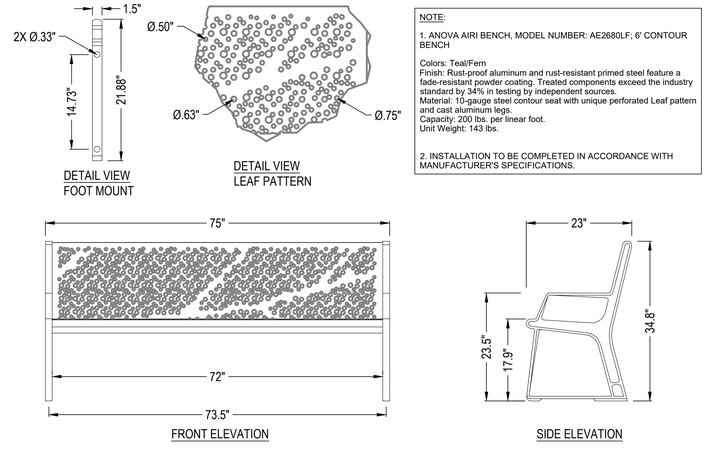
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. PROVIDE GUIDELINES AND/OR INSTALLATION INSTRUCTIONS FOR APPROVAL PRIOR TO ROUGH IN OR INSTALLATION.
3. CONTRACTOR SHALL REVIEW INSTALLATION REQUIREMENTS PRIOR TO INSTALLATION.
4. REVIEW MEP SHEETS FOR MORE INFORMATION RELATED TO PLUMBING.

9 LS503 EXTERIOR SHOWER COLUMN, TYP SCALE: 1/2" = 1'-0"



8 LS503 CABANA SCALE: 1/4" = 1'-0"

4 LS503 CANTILIVER POLE SHADE SCALE: 1/4" = 1'-0"



NOTE:

1. ANOVA AIRI BENCH, MODEL NUMBER: AE2680LF; 6' CONTOUR BENCH

Colors: Teal/Fern
Finish: Rust-proof aluminum and rust-resistant primed steel feature a fade-resistant powder coating. Treated components exceed the industry standard by 34% in testing by independent sources.
Material: 10-gauge steel contour seat with unique perforated Leaf pattern and cast aluminum legs.
Capacity: 200 lbs. per linear foot.
Unit Weight: 143 lbs.

2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

1 LS503 BENCH SCALE: 1" = 1'-0"

CONFLUENCE
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Beaver Dam, WI 53916
920.887.7375

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BRS ARCHITECTURE
990 S Broadway #222,
Denver, CO 80209
303.455.1366

CIVIL ENGINEER:
ROLLS ANDERSON & ROLLS
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Chico, CA 95973
530.895.1422

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No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

SITE DETAILS

LS503

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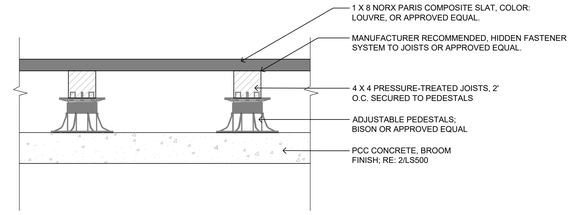
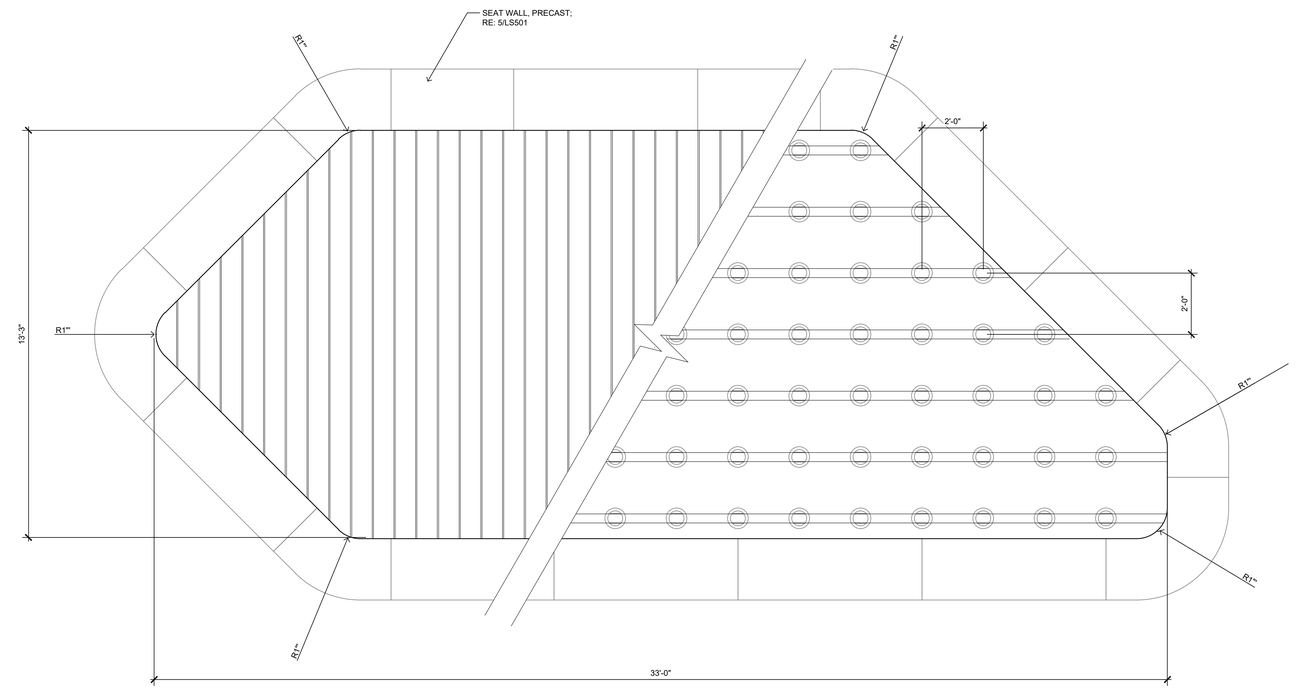


2 LS504 COMPOSITE DECKING ON PEDESTAL

SCALE: 1 1/2" = 1'-0"



NOTE:

1. DECKING, FRAMING, AND PEDESTAL SHOWN FOR DESIGN INTENT ONLY. CONTRACTOR RESPONSIBLE FOR PROVIDING SHOP DRAWINGS FOR APPROVAL PRIOR TO INSTALLATION.
2. CONTRACTOR TO REFER TO MANUFACTURER INSTALLATION GUIDELINES AND RECOMMENDATIONS.
3. CONTRACTOR RESPONSIBLE FOR FINAL DECK LAYOUT.
4. SHOP DRAWING TO INCLUDE LAYOUT, DETAILS, FASTENING SYSTEM, AND MATERIALS.
5. PROVIDE TWO (2) COLOR SAMPLES TO LANDSCAPE ARCHITECT FOR APPROVAL ON DECKING.
6. ALWAYS FOLLOW NORX GAPPING GUIDELINES, OR APPROVED EQUAL.
7. MAXIMUM ALLOWABLE PERPENDICULAR OVERHANG FOR ALL NORX DECKING IS $\frac{1}{2}$" (13 mm).

1 LS504 FREE STANDING DECK

SCALE: 1/2" = 1'-0"

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CHICO AREA RECREATION & PARK DISTRICT

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SITE DETAILS

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THE SQUARES ABOVE ARE COLOR WITH BLACK AND WHITE LETTERS. IF PRINTED CORRECTLY

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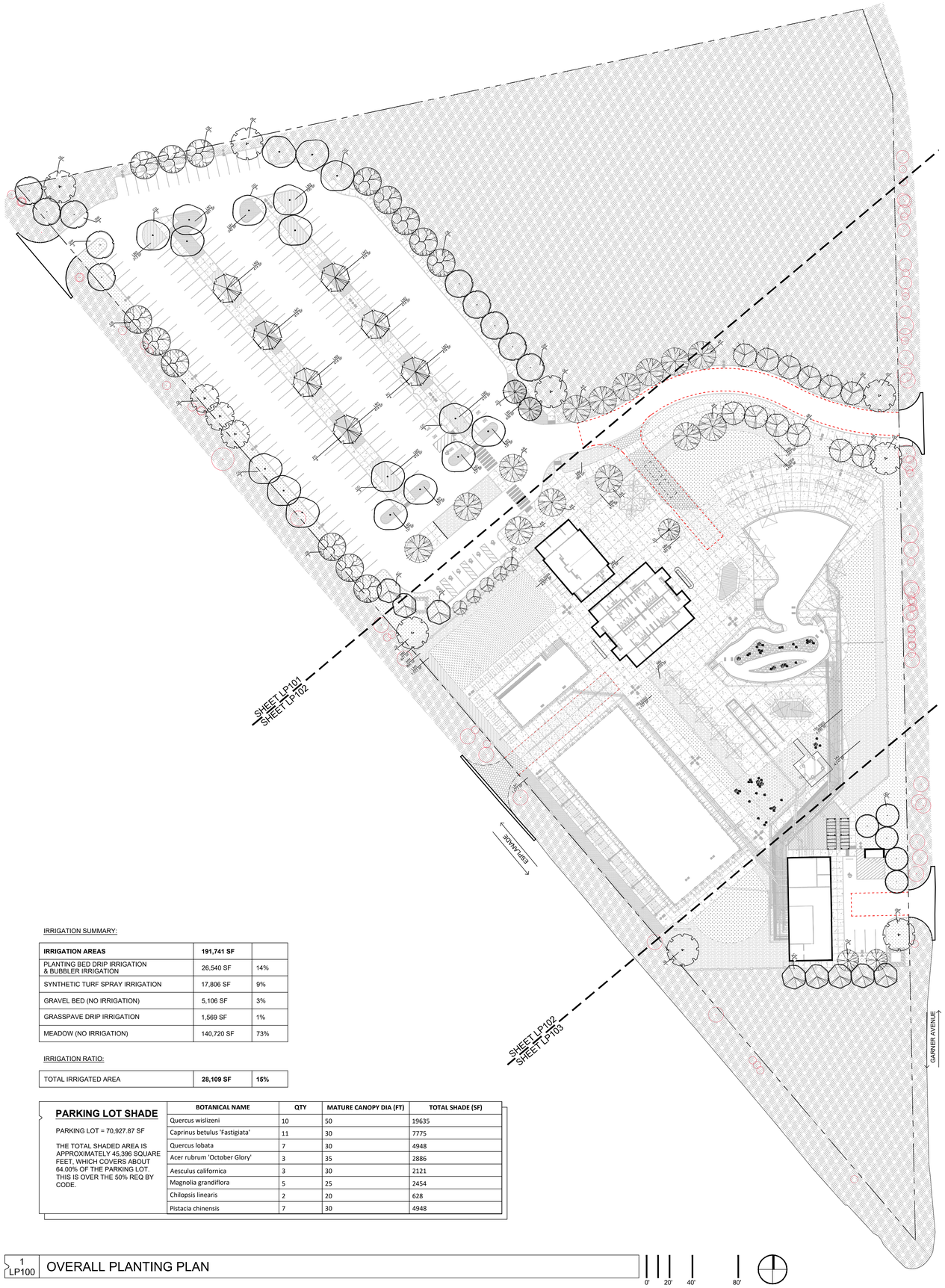

HATCH LEGEND

- SYNTHETIC TURF, SEE DETAIL 15/LS500
- HYDROSEED MEADOW MIX PER SPEC
- MULCH, HARDWOOD
- COBBLE MULCH, SEE DETAIL 13/LP500
- DECORATIVE GRAVEL, SEE DETAIL 15/LP500
- PATH GRAVEL, SEE DETAIL 14/LP500
- TURF LAWN MIX
- MODERATE IRRIGATION PLANTING MIX (MM), SEE LAYOUT 2/LP103
- LOW IRRIGATION PLANTING MIX 1 (M1), SEE LAYOUT 3/LP103
- LOW IRRIGATION PLANTING MIX 2 (M2), SEE LAYOUT 4/LP103

PLANTING GENERAL NOTES

A. PLANT QUANTITIES IN PLANT SCHEDULE ARE FOR CONVENIENCE ONLY AND ARE NOT GUARANTEED. QUANTITIES ON PLAN WILL PREVAIL IF DISCREPANCIES OCCUR.

B. THE CONTRACTOR SHALL SHOW PROOF OF PROCUREMENT, SOURCES, QUANTITIES AND VARIETIES FOR ALL SHRUBS, PERENNIALS, ORNAMENTAL GRASSES, AND ANNUALS WITHIN 21 DAYS FOLLOWING THE AWARD OF CONTRACT. TIMELY PROCUREMENT OF ALL PLANT MATERIAL IS ESSENTIAL TO THE SUCCESSFUL COMPLETION AND ACCEPTANCE OF THE PROJECT.

C. SUBSTITUTIONS SHALL ONLY BE ALLOWED WHEN THE CONTRACTOR HAS EXHAUSTED ALL SOURCES FOR THE SPECIFIED MATERIAL, AND HAS PROVEN THAT THE SPECIFIED MATERIAL IS NOT AVAILABLE. THE CONTRACTOR MUST PROVIDE NAME AND VARIETY OF SUBSTITUTION TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO TAGGING OR PLANTING. SUBSTITUTIONS SHALL BE NEAREST EQUIVALENT SIZE OF VARIETY OF PLANT HAVING SAME ESSENTIAL CHARACTERISTICS.

D. ALL PLANT MATERIAL SHALL BE NURSERY GROWN, SOUND, HEALTHY, VIGOROUS AND FREE FROM INSECTS, DISEASE AND INJURIES, WITH HABIT OF GROWTH THAT IS NORMAL FOR THE SPECIES. SIZES SHALL BE EQUAL TO OR EXCEEDING SIZES INDICATED ON THE PLANT LIST, KIND, SIZE AND QUALITY OF PLANT MATERIAL SHALL CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1), MOST RECENT EDITION.

E. STAKE OR PLACE ALL PLANTS IN FIELD AS INDICATED ON THE DRAWINGS OR AS DIRECTED BY THE LANDSCAPE ARCHITECT OR CHICO PROJECT MANAGERFOR APPROVAL PRIOR TO PLANTING.

F. PLANT FIVE TREES FOR LANDSCAPE ARCHITECT APPROVAL PRIOR TO PLANTING THE REMAINING TREES ON SITE. DEMONSTRATION SHOULD ILLUSTRATE A COMPREHENSIVE UNDERSTANDING OF INFORMATION INCLUDED IN PLANTING DETAILS AND SPECIFICATIONS.

G. PROVIDE A MINIMUM OF 14 DAYS NOTICE FOR APPROVAL OF PLANT LAYOUT AND SAMPLE TREE PLANTINGS.

H. THE CONTRACTOR SHALL REPORT SUBSURFACE SOIL OR DRAINAGE PROBLEMS TO THE LANDSCAPE ARCHITECT PRIOR TO PLANTING.

I. SEED ALL AREAS WITHIN CONTRACT LIMITS, NOT COVERED BY PAVING, BUILDINGS, OR PLANTING BEDS, UNLESS OTHERWISE NOTED.

J. CONTRACTOR SHALL PLACE SHREDDED BARK MULCH AROUND ALL TREES AND IN ALL PLANTING BEDS TO A DEPTH OF 3".

K. SEE SPECIFICATIONS FOR PLANT MAINTENANCE AND WARRANTY REQUIREMENTS.

LANDSCAPE SYMBOL LEGEND

- AB - ACER BUERGERIANUM
- AR - ACER RUBRUM 'OCTOBER GLORY'
- CB - CARPINUS BETULUS 'FASTIGIA'
- CO - CERCIS OCCIDENTALIS
- PC - PISTACIA CHINENSIS
- QL - QUERCUS LOBATA
- QW - QUERCUS WISLIZENI
- AC - AESCULUS CALIFORNICA
- CL - CHILOPSIS LINEARIS
- MG - MAGNOLIA GRANDIFLORA 'LITTLE GEM'
- QD - QUERCUS DOUGLASSI
- BOULDERS

SOIL TYPE STATEMENT

THE CHICO AQUATIC AND RECREATION FACILITY PROJECT, SITUATED IN CHICO, CALIFORNIA, BOASTS A DIVERSE SOIL COMPOSITION REFLECTIVE OF THE REGION'S MEDITERRANEAN CLIMATE. PREDOMINANTLY CHARACTERIZED BY LOAM, CLAY, AND SANDY LOAM SOILS, THE SITE PRESENTS VARYING CONDITIONS FOR LANDSCAPING. UNDERSTANDING THESE SOIL TYPES IS PARAMOUNT IN SELECTING SUITABLE PLANT SPECIES AND IMPLEMENTING EFFECTIVE PLANTING TECHNIQUES.

TO ENSURE THE SUCCESS OF THE LANDSCAPING, SPECIAL CONSIDERATIONS SHALL BE MADE. SOIL AMENDMENTS, SUCH AS ORGANIC MATTER INCORPORATION, ARE NECESSARY TO ENHANCE FERTILITY AND IMPROVE DRAINAGE WHERE SOIL QUALITY IS LACKING. ADDITIONALLY, STRATEGIC MULCHING PRACTICES WILL AID IN MOISTURE RETENTION AND WEED SUPPRESSION, PARTICULARLY VITAL IN SOILS PRONE TO RAPID MOISTURE LOSS OR COMPACTION. PLANT SELECTION TAILORED TO THE SITE'S SOIL CONDITIONS, EMPHASIZING DROUGHT TOLERANCE AND NATIVE SPECIES, SHALL PROMOTE RESILIENT VEGETATION ESTABLISHMENT AND LONG-TERM SUSTAINABILITY. LASTLY, IMPLEMENTATION OF AN EFFICIENT TEMPORARY IRRIGATION SYSTEMS AND EROSION CONTROL MEASURES WILL FURTHER OPTIMIZE PLANT GROWTH AND MITIGATE SOIL EROSION RISKS.

SITE DESIGN AND ARCHITECTURE REVIEW - PROJECT DESCRIPTION

THE CHICO AQUATIC AND RECREATION FACILITY PROJECT IS A TRANSFORMATIVE ENDEAVOR POISED TO REDEFINE LEISURE AND RECREATIONAL OPPORTUNITIES IN CHICO, CALIFORNIA. SPEARHEADED BY THE CHICO AREA RECREATION AND PARK DISTRICT (CARD), THIS AMBITIOUS PROJECT AIMS TO CREATE A DYNAMIC HUB OF ACTIVITY THAT CATERS TO THE DIVERSE NEEDS AND INTERESTS OF RESIDENTS AND VISITORS ALIKE. WITH A $6 MILLION GRANT PROPELLING ITS DEVELOPMENT, THE FACILITY PROMISES AN EXCITING ARRAY OF AMENITIES, INCLUDING EXHILARATING WATER SLIDES, INTERACTIVE PLAY AREAS, AND MODERN SWIMMING POOLS DESIGNED FOR INDIVIDUALS OF ALL AGES AND ABILITIES.

AS ENVISIONED, THE AQUATIC AND RECREATION CENTER WILL SERVE AS A VIBRANT DESTINATION, OFFERING SOMETHING FOR EVERYONE. FAMILIES CAN ENJOY THRILLING WATER ATTRACTIONS AND SPLASH ZONES, WHILE FITNESS ENTHUSIASTS CAN TAKE ADVANTAGE OF LAP SWIMMING LANES AND AQUA AEROBICS CLASSES. ADDITIONALLY, THE FACILITY WILL FEATURE VERSATILE SPACES FOR COMMUNITY EVENTS, GATHERINGS, AND EDUCATIONAL PROGRAMS, FOSTERING A SENSE OF COMMUNITY ENGAGEMENT AND CONNECTION.

IN ALIGNMENT WITH THE DESIGN GUIDELINES FROM THE CITY OF CHICO DESIGN GUIDELINES MANUAL, THE PROJECT PLACES A STRONG EMPHASIS ON PRESERVING THE CITY'S UNIQUE ARCHITECTURAL CHARACTER AND PROMOTING SUSTAINABLE PRACTICES. BY INCORPORATING ELEMENTS INSPIRED BY THE LOCAL VERNACULAR, SUCH AS THE USE OF NATURAL MATERIALS AND DESIGN MOTIFS REFLECTIVE OF CHICO'S HISTORICAL HERITAGE, THE AQUATIC CENTER SEAMLESSLY INTEGRATES WITH ITS SURROUNDINGS, ENHANCING THE OVERALL AESTHETIC APPEAL OF THE AREA.

FURTHERMORE, THE PROJECT PRIORITIZES DESIGN OBJECTIVE B: "PROMOTE SUSTAINABILITY AND ENVIRONMENTAL STEWARDSHIP." THIS OBJECTIVE IS ACHIEVED THROUGH INNOVATIVE DESIGN STRATEGIES, INCLUDING PASSIVE SOLAR PRINCIPLES TO MAXIMIZE NATURAL DAYLIGHTING, ENERGY-EFFICIENT BUILDING SYSTEMS TO MINIMIZE OPERATIONAL COSTS, AND STORMWATER MANAGEMENT TECHNIQUES TO MITIGATE RUNOFF AND ENHANCE WATER QUALITY. THESE SUSTAINABLE FEATURES NOT ONLY ALIGN WITH THE CITY'S ENVIRONMENTAL GOALS BUT ALSO SERVE AS EDUCATIONAL OPPORTUNITIES FOR VISITORS TO LEARN ABOUT ECO-FRIENDLY PRACTICES AND PRINCIPLES.

IN INSTANCES WHERE ALTERNATIVE DESIGN SOLUTIONS ARE PROPOSED, CAREFUL CONSIDERATION IS GIVEN TO ENSURE ALIGNMENT WITH THE DESIGN GUIDELINES' OVERARCHING OBJECTIVES. BY EMBRACING THE DESIGN GUIDELINES FROM THE CITY OF CHICO DESIGN GUIDELINES MANUAL AND INCORPORATING SUSTAINABLE DESIGN PRINCIPLES INTO EVERY ASPECT OF THE PROJECT, THE CHICO AQUATIC AND RECREATION FACILITY AIMS TO SET A NEW STANDARD FOR RESPONSIBLE DEVELOPMENT IN THE REGION, ENRICHING THE LIVES OF RESIDENTS AND VISITORS FOR YEARS TO COME

PLANT SCHEDULE (ALL SHEETS)

KEY	QTY	BOTANICAL NAME	COMMON NAME	CAL	HT**	ROOT	SPACING/REMARK	WUCOLS (PF)	MAWA*†	ETWU*‡
			CANOPY TREES							
AB	12	*Acer buergerianum*	Trident Maple	2"	10 - 12' MIN.	B&B	SPACING PER PLAN	Moderate (.5)	186	207
AR	14	*Acer rubrum 'October Glory'*	October Glory Maple	2"	10 - 12' MIN.	B&B	SPACING PER PLAN	Moderate (.5)	217	241
CB	14	*Carpinus betulus 'Fastigiata'*	Columnar Hornbeam	2"	10 - 12' MIN.	B&B	SPACING PER PLAN	Moderate (.5)	217	241
CO	18	*Cercis occidentalis*	Western Redbud	2"	10 - 12' MIN.	B&B	SPACING PER PLAN	Very Low (.1)	112	124
PC	7	*Pistacia chinensis*	Chinese pistache	2"	10 - 12' MIN.	B&B	SPACING PER PLAN	Low (.2)	43	48
QL	11	*Quercus lobata*	Valley Oak	2"	10 - 12' MIN.	B&B	SPACING PER PLAN	Low (.2)	68	76
QW	10	*Quercus wislizeni*	Interior Live Oak	2"	10 - 12' MIN.	B&B	SPACING PER PLAN	Very Low (.1)	38	42
			ORNAMENTAL TREES							
AC	8	*Aesculus californica*	California buckeye	2"	10 - 12' MIN.	B&B	SPACING PER PLAN	Very Low (.1)	12	13
CL	5	*Chilopsis linearis*	Desert Willow	2"	10 - 12' MIN.	B&B	SPACING PER PLAN	Very Low (.1)	16	17
MG	5	*Magnolia grandiflora 'Little Gem'*	Little Gem Magnolia	2"	10 - 12' MIN.	B&B	SPACING PER PLAN	Moderate (.5)	78	86
QD	5	*Quercus douglassi*	Blue Oak	2"	10 - 12' MIN.	B&B	SPACING PER PLAN	Very Low (.1)	16	17
			SHRUBS							
	34	*Camellia sasanqua 'Bonanza'*	Bonanza Camellia	-	20-24" MIN.	#5	SPACING PER PLAN	Moderate (.5)	527	586
	10	*Daphne odora*	Fragrant Daphne	-	20-24" MIN.	#5	SPACING PER PLAN	Low (.2)	1599	1777
	10	*Grevalia "coastal gem"*	Coastal Gem Woolly Grevillea	-	20-24" MIN.	#5	SPACING PER PLAN	Low (.2)	62	69
	10	*Lantana hybrid 'Chapel Hill Yellow'*	Chapel Hill Yellow Lantana	-	20-24" MIN.	#5	SPACING PER PLAN	Low (.2)	3540	3933
	26	*Lavendula allardii 'Meerlo'*	Meerlo Lavender	-	20-24" MIN.	#5	SPACING PER PLAN	Low (.2)	161	179
	10	*Lavendula dentata*	French Lavender	-	20-24" MIN.	#5	SPACING PER PLAN	Low (.2)	62	69
	12	Lavendula x intermedia 'phenomenal'	Phenomenal Lavender	-	20-24" MIN.	#5	SPACING PER PLAN	Low (.2)	74	83
	10	*Lupinus excubitus*	Grape Soda Lupine	-	20-24" MIN.	#5	SPACING PER PLAN	Very Low (.1)	31	34
	12	*Romneya coulteri*	Matilija Poppy	-	20-24" MIN.	#5	SPACING PER PLAN	Very Low (.1)	37	41
	12	*Salvia clevelandii 'Pozo Blue'*	Salvia Cleveland/Alan Chickering	-	20-24" MIN.	#5	SPACING PER PLAN	Low (.2)	74	83
	34	*Salvia guarantica " black and blue"*	Black and Blue Sage	-	20-24" MIN.	#5	SPACING PER PLAN	Moderate (.5)	527	586
	34	*Salvia microphyla "hot lips"*	Cherry/Graham Sage	-	20-24" MIN.	#5	SPACING PER PLAN	Moderate (.5)	527	586
	34	*Salvia officianalis 'tricolor'*	Tricolor Sage	-	20-24" MIN.	#5	SPACING PER PLAN	Moderate (.5)	527	586
	26	*Salvia pachyphylla*	Rose Sage	-	20-24" MIN.	#5	SPACING PER PLAN	Low (.2)	161	179
	12	*Salvia rosmarinus*	Rosemary	-	20-24" MIN.	#5	SPACING PER PLAN	Low (.2)	74	83
	20	Santolina chamaecyparissus	Cotton Lavender	-	20-24" MIN.	#5	SPACING PER PLAN	Low (.2)	124	138
			GRASSES							
	49	*Calamagrostis x acuteiflora*	Feather Reed Grass	-	12-20" MIN.	#1	SPACING PER PLAN	Low (.2)	6758	7509
	168	*Liriope spp.*	Lilyturfs	-	12-20" MIN.	#1	SPACING PER PLAN	Moderate (.5)	2604	2893
	34	*Miscanthus sinensis*	Eulalia Grass	-	12-20" MIN.	#1	SPACING PER PLAN	Moderate (.5)	527	586
	49	*Muhlenbergia capillaris*	Hairy Awn Muhly	-	12-20" MIN.	#1	SPACING PER PLAN	Low (.2)	6758	7509
	38	*Muhlenbergia capillaris*	Pink Muhly Grass	-	12-20" MIN.	#1	SPACING PER PLAN	Low (.2)	6758	7509
	38	*Nassell tenuissima*	Mexican Feather Grass	-	12-20" MIN.	#1	SPACING PER PLAN	Low (.2)	6758	7509
	38	*Nassella pulchara*	Purple Needlegrass	-	12-20" MIN.	#1	SPACING PER PLAN	Very Low (.1)	118	131
			PERENNIALS							
	129	*Achillea varieties*	Yarrow	-	12-20" MIN.	#1	SPACING PER PLAN	Low (.2)	6758	7509
	134	*Agapanthus africanus 'Albus'*	White Agapanthus	-	12-20" MIN.	#1	SPACING PER PLAN	Moderate (.5)	2077	2308
	84	*Coreopsis lanceolata*	Lanceleaf Tickseed	-	12-20" MIN.	#1	SPACING PER PLAN	Low (.2)	6758	7509
	134	*Echinacea spp.*	Coneflower	-	12-20" MIN.	#1	SPACING PER PLAN	Moderate (.5)	2077	2308
	45	*Gaillardia aristate*	Great Blanket Flower	-	12-20" MIN.	#1	SPACING PER PLAN	Low (.2)	6758	7509
	134	*Iberis spp.*	Candy Tuft	-	12-20" MIN.	#1	SPACING PER PLAN	Moderate (.5)	2077	2308
	84	*Iris x Germanica*	Bearded Iris	-	12-20" MIN.	#1	SPACING PER PLAN	Low (.2)	6758	7509
	134	*Leucanthemum x superbum*	Shasta daisy	-	12-20" MIN.	#1	SPACING PER PLAN	Moderate (.5)	2077	2308
	134	*Rudbeckia fulgida Goldstrum*	Black Eyed Susan	-	12-20" MIN.	#1	SPACING PER PLAN	Moderate (.5)	2077	2308
	134	*Scabiosa spp.*	Pincushion Flower	-	12-20" MIN.	#1	SPACING PER PLAN	Moderate (.5)	2077	2308
			GROUNDCOVER							
	251	*Lithodora diffusa*	Lithodora 'Heavenly Blue'	-	1-2" MIN.	6"	SPACING PER PLAN	Moderate (.5)	3891	4323
	251	*Phlox solonifera*	Phlox	-	1-2" MIN.	6"	SPACING PER PLAN	Moderate (.5)	3891	4323
	75	*Salvia sonomensis*	Sonoma Sage	-	1-2" MIN.	6"	SPACING PER PLAN	Low (.2)	6758	7509
	74	*Thymus praecox (or serpyllum)*	Creeping Thyme	-	1-2" MIN.	6"	SPACING PER PLAN	Low (.2)	4030	4478
			NOTES							

WUCOLS information (as of 12/31/24) from https://ccuh.ucdavis.edu/wucols-db
* = Gallons/Year
** = Minimum HT at time of planting
† = Maximum Allowable Water Allocation (MAWA) formula: (50 inches/year)×(0.62)×(Plant Factor)×(Area or Quantity) = MAWA #
‡ = Estimated Total Water Use (ETWU) formula: (50 inches/year)×(0.62)×(Plant Factor)×(Area or Quantity)/(Irrigation Efficiency) = ETWU #
Irrigation Efficiency (IE): Drip irrigation: 0.9 & Spray irrigation: 0.75

IRRIGATION SUMMARY:

IRRIGATION AREAS	191,741 SF	
PLANTING BED DRIP IRRIGATION & BUBBLER IRRIGATION	26,540 SF	14%
SYNTHETIC TURF SPRAY IRRIGATION	17,806 SF	9%
GRAVEL BED (NO IRRIGATION)	5,106 SF	3%
GRASSPAVE DRIP IRRIGATION	1,569 SF	1%
MEADOW (NO IRRIGATION)	140,720 SF	73%

IRRIGATION RATIO:

TOTAL IRRIGATED AREA	28,109 SF	15%

PARKING LOT SHADE

PARKING LOT = 70,927.87 SF

THE TOTAL SHADED AREA IS APPROXIMATELY 45,396 SQUARE FEET, WHICH COVERS ABOUT 64.00% OF THE PARKING LOT. THIS IS OVER THE 50% REQ BY CODE.

BOTANICAL NAME	QTY	MATURE CANOPY DIA (FT)	TOTAL SHADE (SF)
Quercus wislizeni	10	50	19635
Caprinus betulus 'Fastigiata'	11	30	7775
Quercus lobata	7	30	4948
Acer rubrum 'October Glory'	3	35	2886
Aesculus californica	3	30	2121
Magnolia grandiflora	5	25	2454
Chilopsis linearis	2	20	628
Pistacia chinensis	7	30	4948

1 LP100 OVERALL PLANTING PLAN

0' 20' 40' 80'

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CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
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OVERALL PLANTING PLAN

LP100

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS ORIGINAL DRAWING SIZE
THE SQUARES ABOVE ARE SOLID COLOR WITH BLACK AND WHITE LETTERS, FOR ARCHIVE PURPOSES ONLY
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IF LINE SHOWN ABOVE IS NOT EXACTLY ONE INCH LONG, ATTHIS SHEET IS NOT PROPERLY SCALED

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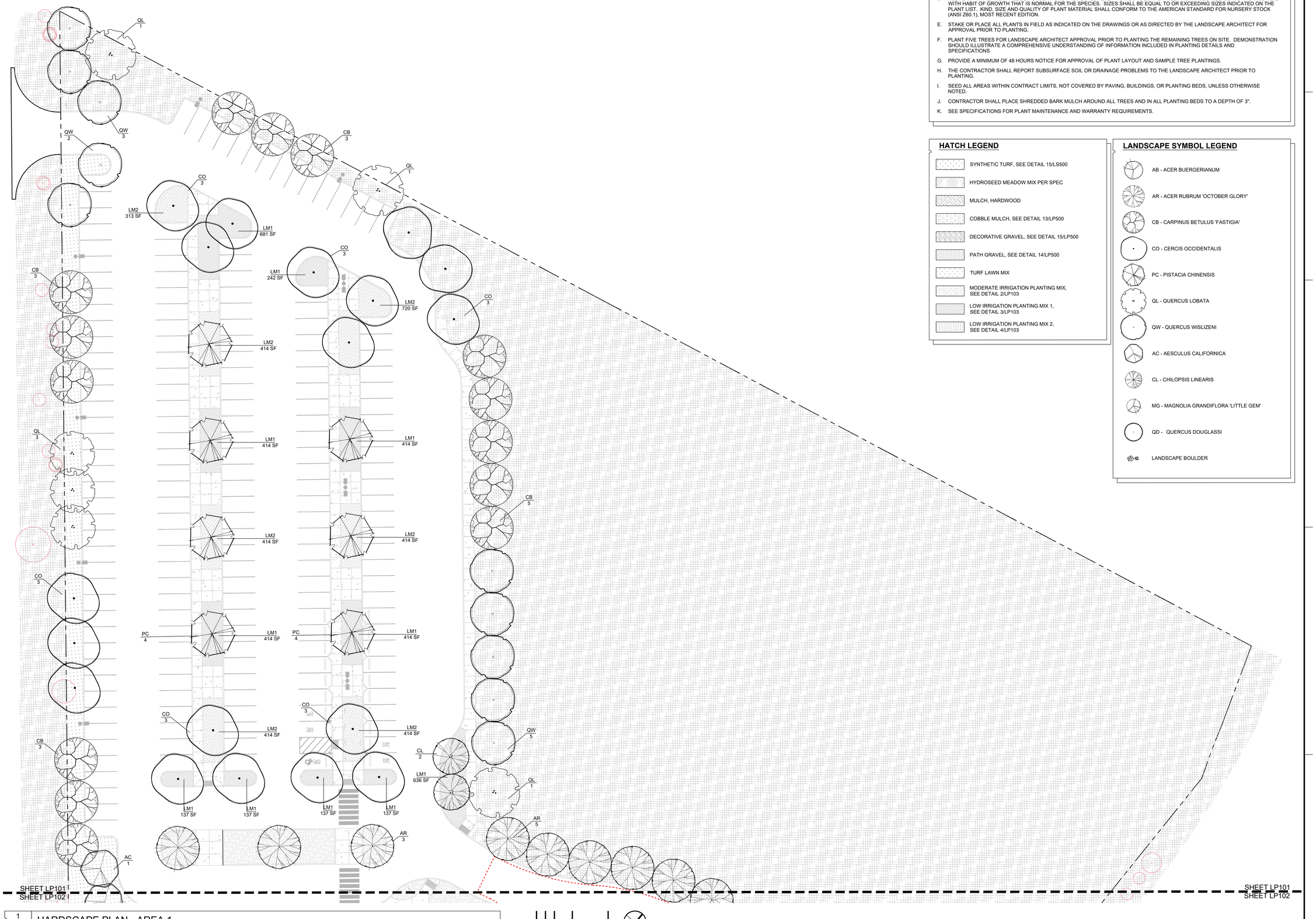

1 / LP101 HARDSCAPE PLAN - AREA 1

0' 10' 20' 40'

PLANTING GENERAL NOTES

A. PLANT QUANTITIES IN PLANT SCHEDULE ARE FOR CONVENIENCE ONLY AND ARE NOT GUARANTEED. QUANTITIES ON PLAN WILL PREVAIL IF DISCREPANCIES OCCUR.

B. THE CONTRACTOR SHALL SHOW PROOF OF PROCUREMENT, SOURCES, QUANTITIES AND VARIETIES FOR ALL SHRUBS, PERENNIALS, ORNAMENTAL GRASSES, AND ANNUALS WITHIN 21 DAYS FOLLOWING THE AWARD OF CONTRACT. TIMELY PROCUREMENT OF ALL PLANT MATERIAL IS ESSENTIAL TO THE SUCCESSFUL COMPLETION AND ACCEPTANCE OF THE PROJECT.

C. SUBSTITUTIONS SHALL ONLY BE ALLOWED WHEN THE CONTRACTOR HAS EXHAUSTED ALL SOURCES FOR THE SPECIFIED MATERIAL, AND HAS PROVEN THAT THE SPECIFIED MATERIAL IS NOT AVAILABLE. THE CONTRACTOR MUST PROVIDE NAME AND VARIETY OF SUBSTITUTION TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO TAGGING OR PLANTING. SUBSTITUTIONS SHALL BE NEAREST EQUIVALENT SIZE OF VARIETY OF PLANT HAVING SAME ESSENTIAL CHARACTERISTICS.

D. ALL PLANT MATERIAL SHALL BE NURSERY GROWN, SOUND, HEALTHY, VIGOROUS AND FREE FROM INSECTS, DISEASE AND INJURIES, WITH HABIT OF GROWTH THAT IS NORMAL FOR THE SPECIES. SIZES SHALL BE EQUAL TO OR EXCEEDING SIZES INDICATED ON THE PLANT LIST. KIND, SIZE AND QUALITY OF PLANT MATERIAL SHALL CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1), MOST RECENT EDITION.

E. STAKE OR PLACE ALL PLANTS IN FIELD AS INDICATED ON THE DRAWINGS OR AS DIRECTED BY THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO PLANTING.

F. PLANT FIVE TREES FOR LANDSCAPE ARCHITECT APPROVAL PRIOR TO PLANTING THE REMAINING TREES ON SITE. DEMONSTRATION SHOULD ILLUSTRATE A COMPREHENSIVE UNDERSTANDING OF INFORMATION INCLUDED IN PLANTING DETAILS AND SPECIFICATIONS.

G. PROVIDE A MINIMUM OF 48 HOURS NOTICE FOR APPROVAL OF PLANT LAYOUT AND SAMPLE TREE PLANTINGS.

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J. CONTRACTOR SHALL PLACE SHREDDED BARK MULCH AROUND ALL TREES AND IN ALL PLANTING BEDS TO A DEPTH OF 3".

K. SEE SPECIFICATIONS FOR PLANT MAINTENANCE AND WARRANTY REQUIREMENTS.

HATCH LEGEND

- SYNTHETIC TURF, SEE DETAIL 15/LS500
- HYDROSEED MEADOW MIX PER SPEC
- MULCH, HARDWOOD
- COBBLE MULCH, SEE DETAIL 13/LP500
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- PATH GRAVEL, SEE DETAIL 14/LP500
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- MODERATE IRRIGATION PLANTING MIX, SEE DETAIL 2/LP103
- LOW IRRIGATION PLANTING MIX 1, SEE DETAIL 3/LP103
- LOW IRRIGATION PLANTING MIX 2, SEE DETAIL 4/LP103

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- AB - ACER BUERGERIANUM
- AR - ACER RUBRUM 'OCTOBER GLORY'
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- MG - MAGNOLIA GRANDIFLORA 'LITTLE GEM'
- QD - QUERCUS DOUGLASSI
- LANDSCAPE BOULDER

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PLANTING PLANS - AREA 1

LP101

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IF LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG, A TRUE ARCHITECTURAL SCALE PRINT

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, WHEN PROPERLY PRINTED

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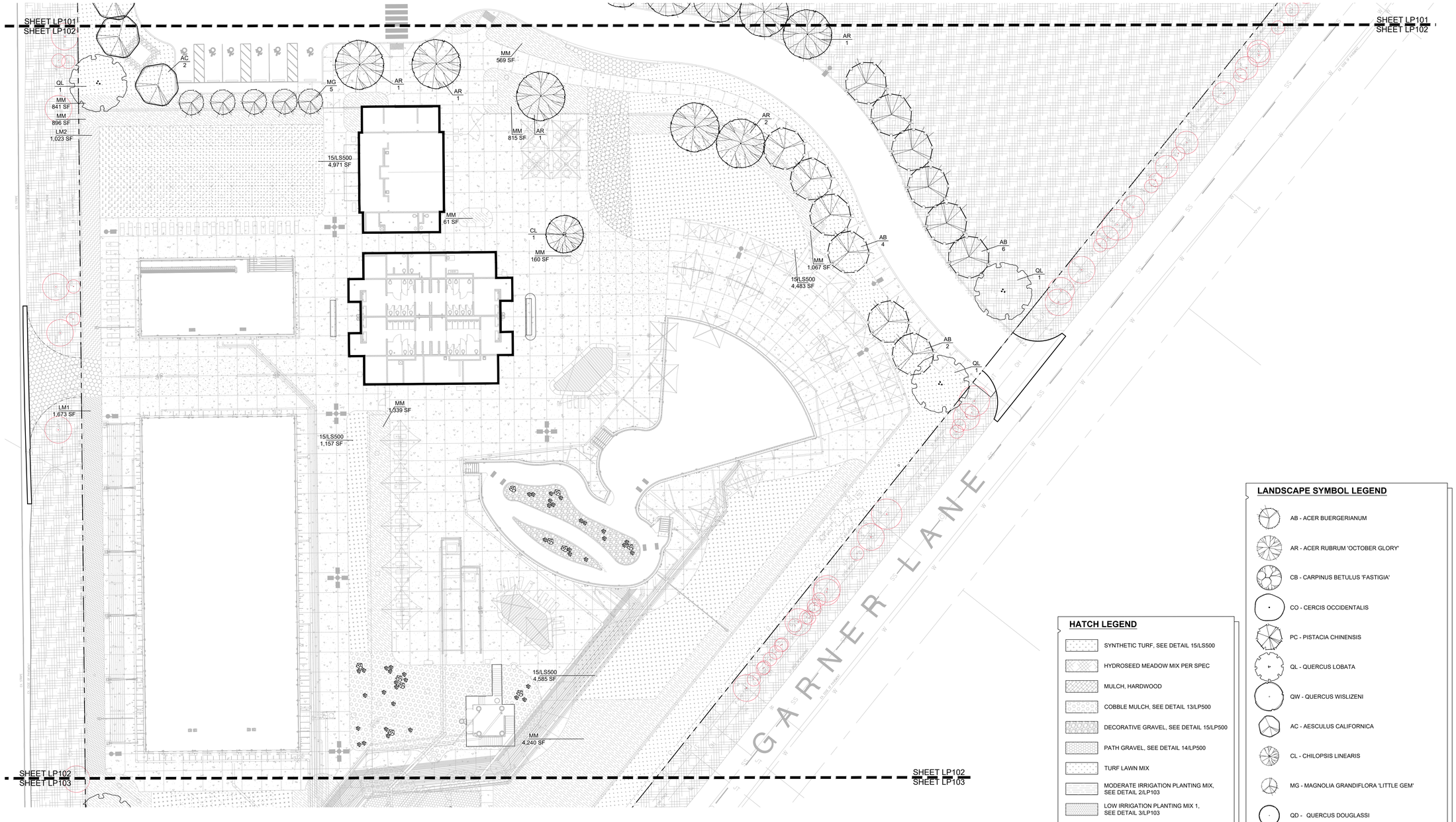

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- QD - QUERCUS DOUGLASSI
- BOULDERS

1 LP102 HARDSCAPE PLAN - AREA 2

0' 10' 20' 40'

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PLANTING PLANS - AREA 2

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- CL - CHILOPSIS LINEARIS
- MG - MAGNOLIA GRANDIFLORA 'LITTLE GEM'
- QD - QUERCUS DOUGLASSI
- LANDSCAPE BOULDER

PLANTING GENERAL NOTES

A. PLANT QUANTITIES IN PLANT SCHEDULE ARE FOR CONVENIENCE ONLY AND ARE NOT GUARANTEED. QUANTITIES ON PLAN WILL PREVAIL IF DISCREPANCIES OCCUR.

B. THE CONTRACTOR SHALL SHOW PROOF OF PROCUREMENT, SOURCES, QUANTITIES AND VARIETIES FOR ALL SHRUBS, PERENNIALS, ORNAMENTAL GRASSES, AND ANNUALS WITHIN 21 DAYS FOLLOWING THE AWARD OF CONTRACT. TIMELY PROCUREMENT OF ALL PLANT MATERIAL IS ESSENTIAL TO THE SUCCESSFUL COMPLETION AND ACCEPTANCE OF THE PROJECT.

C. SUBSTITUTIONS SHALL ONLY BE ALLOWED WHEN THE CONTRACTOR HAS EXHAUSTED ALL SOURCES FOR THE SPECIFIED MATERIAL, AND HAS PROVEN THAT THE SPECIFIED MATERIAL IS NOT AVAILABLE. THE CONTRACTOR MUST PROVIDE NAME AND VARIETY OF SUBSTITUTION TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO TAGGING OR PLANTING. SUBSTITUTIONS SHALL BE NEAREST EQUIVALENT SIZE OF VARIETY OF PLANT HAVING SAME ESSENTIAL CHARACTERISTICS.

D. ALL PLANT MATERIAL SHALL BE NURSERY GROWN, SOUND, HEALTHY, VIGOROUS AND FREE FROM INSECTS, DISEASE AND INJURIES, WITH HABIT OF GROWTH THAT IS NORMAL FOR THE SPECIES. SIZES SHALL BE EQUAL TO OR EXCEEDING SIZES INDICATED ON THE PLANT LIST. KIND, SIZE AND QUALITY OF PLANT MATERIAL SHALL CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1), MOST RECENT EDITION.

E. STAKE OR PLACE ALL PLANTS IN FIELD AS INDICATED ON THE DRAWINGS OR AS DIRECTED BY THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO PLANTING.

F. PLANT FIVE TREES FOR LANDSCAPE ARCHITECT APPROVAL PRIOR TO PLANTING THE REMAINING TREES ON SITE. DEMONSTRATION SHOULD ILLUSTRATE A COMPREHENSIVE UNDERSTANDING OF INFORMATION INCLUDED IN PLANTING DETAILS AND SPECIFICATIONS.

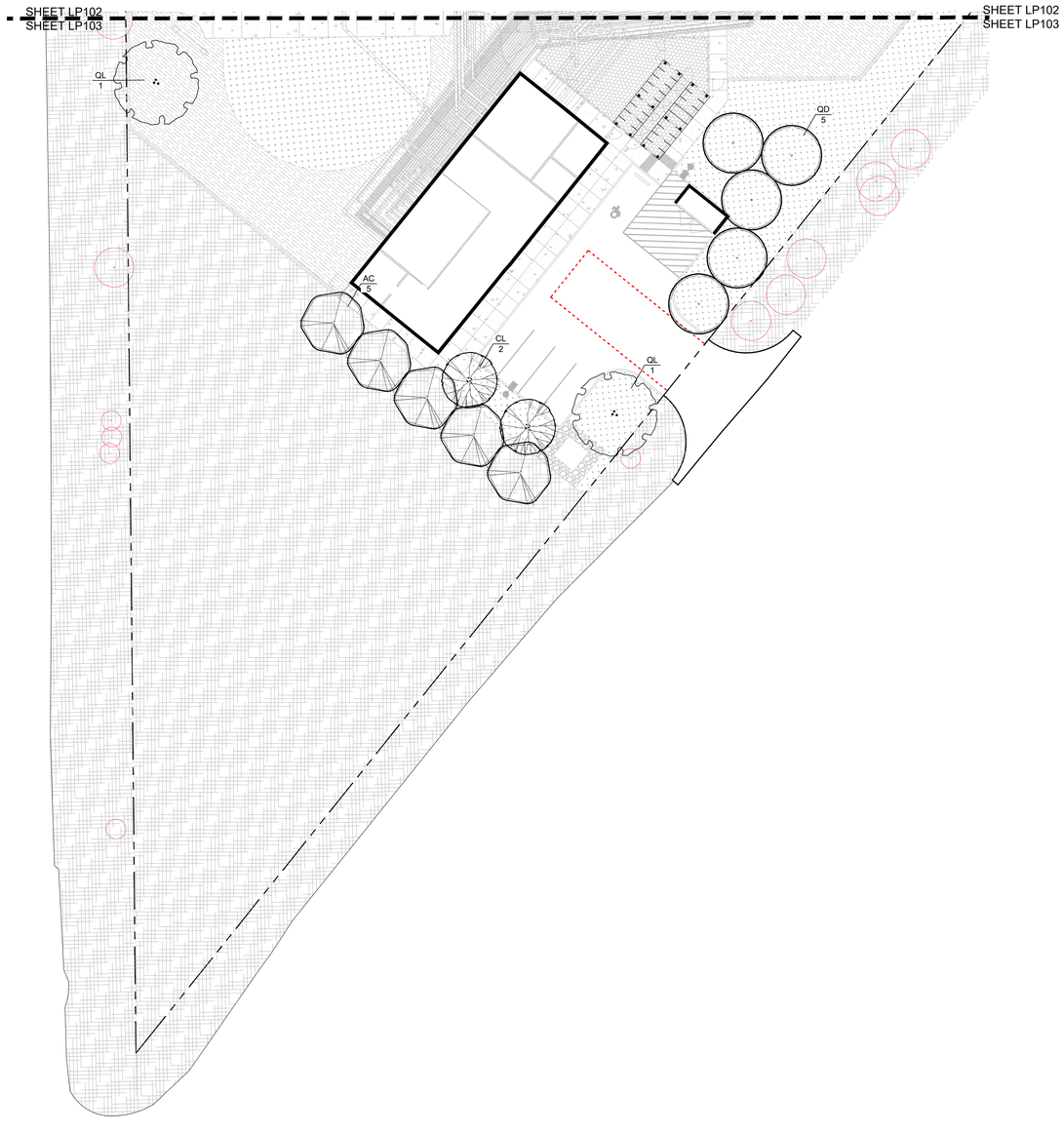
G. PROVIDE A MINIMUM OF 48 HOURS NOTICE FOR APPROVAL OF PLANT LAYOUT AND SAMPLE TREE PLANTINGS.

H. THE CONTRACTOR SHALL REPORT SUBSURFACE SOIL OR DRAINAGE PROBLEMS TO THE LANDSCAPE ARCHITECT PRIOR TO PLANTING.

I. SEED ALL AREAS WITHIN CONTRACT LIMITS, NOT COVERED BY PAVING, BUILDINGS, OR PLANTING BEDS, UNLESS OTHERWISE NOTED.

J. CONTRACTOR SHALL PLACE SHREDDED BARK MULCH AROUND ALL TREES AND IN ALL PLANTING BEDS TO A DEPTH OF 3".

K. SEE SPECIFICATIONS FOR PLANT MAINTENANCE AND WARRANTY REQUIREMENTS.



1 LP103 HARDSCAPE PLAN - AREA 3

0' 10' 20' 40'

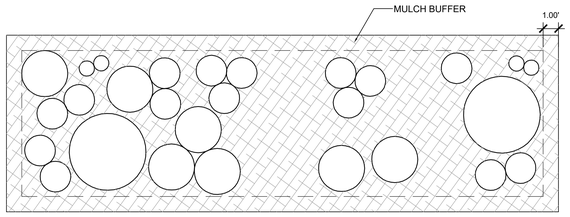
PLANTING MIX OVERVIEW AND INSTRUCTIONS

THIS PLANTING MIX SYSTEM IS DESIGNED TO STREAMLINE THE CALCULATION OF PLANT QUANTITIES FOR EACH PLANTING BED, ENSURING PROPER PLANT DISTRIBUTION AND ADHERENCE TO THE DESIGN INTENT. THE FOLLOWING GUIDELINES EXPLAIN HOW TO DETERMINE THE QUANTITIES FOR EACH PLANT MIX AND APPLY THE PROVIDED FORMULAS.

PLANTING SYSTEM OVERVIEW

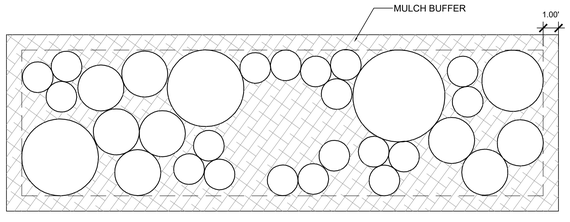
EACH PLANTING MIX INCLUDES:

- **SPECIES PERCENTAGES**: EACH PLANT WITHIN THE MIX IS ASSIGNED A PERCENTAGE THAt REPRESENTS ITS PROPORTIONAL COVERAGE OF THE TOTAL PLANTING AREA. SPACING GUIDELINES: THE SPACING FOR EACH PLANT IS PROVIDED AS A GUIDELINE FOR PROPER PLACEMENT AND OPTIMAL GROWTH.
- **MULTIPLIER**: A UNIVERSAL MULTIPLIER OF 0.09 IS APPLIED TO ACCOUNT FOR THE DENSITY AND OVERALL LAYOUT REQUIREMENTS.
- **ROUND UP**: ROUND THE CALCULATED QTY TO THE NEAREST WHOLE NUMBER. THE MINIMUM QTY FOR EVERY PLANT IN EACH PLATING BED IS AT LEAST ONE (1).
- **LAYOUT**: EACH MIX HAS A BASIS OF DESIGN LAYOUT PLAN PROVIDED. THE PLANTING BEDS SHALL HAVE A 12" MUCH BORDER FROM THE EDGE AND THEN THE CALCULATED QTY OF PLANTS ARE TO BE GROUPED AND RANDOMLY PEPPERED IN THE BED.
- **STAKE**: PLANT LAYOUTS MUST BE STAKED OR MARKED AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO PLANTING.



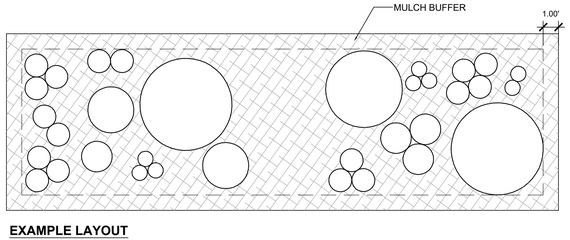
EXAMPLE LAYOUT

4 LP103 BASIS OF DESIGN - LOW PLANTING MIX 1 SCALE: 3" = 1'-0"



EXAMPLE LAYOUT

3 LP103 BASIS OF DESIGN - LOW PLANTING MIX 2 SCALE: 3" = 1'-0"



EXAMPLE LAYOUT

2 LP103 BASIS OF DESIGN - MODERATE PLANTING MIX SCALE: 3" = 1'-0"

CALCULATION FORMULA

FOR EACH PLANTING BED, THE CONTRACTOR WILL USE THE FOLLOWING FORMULA TO CALCULATE THE REQUIRED NUMBER OF PLANTS FOR EACH SPECIES IN THE DESIGNATED PLANT MIX:

(TOTAL AREA (SF) × PERCENTAGE OF PLANT) × MULTIPLIER (0.09) = QTY

EXAMPLE CALCULATIONS:

- SALVIA GUARANITICA 'BLACK AND BLUE' (2% OF THE MIX):

  (413 SF × 0.02) × 0.09 = 0.74 PLANTS ≈ 1 PLANT IN THIS BED

- LIRIOPE SPP. (10% OF THE MIX):

  (413 SF × 0.10) × 0.09 = 3.72 PLANTS ≈ 4 PLANTS IN THIS BED

- REPEAT THE FORMULA FOR EACH PLANT IN THE MIX, USING THE CORRESPONDING PERCENTAGE.

LOW MIX 1

%	BOTANICAL NAME	COMMON NAME	SPACING	WUCOLS (PF)
		SHRUBS		
2%	*Lantana hybrid 'Chapel Hill Yellow'*	Chapel Hill Yellow Lantana	3' O.C.	Low (.2)
2%	*Grevilliea lanigera 'Coastal Gem'*	Coastal Gem Woolly Grevillea	5' O.C.	Low (.2)
2%	*Daphne odora*	Fragrant Daphne	3' O.C.	Low (.2)
2%	*Lavendula dentata*	French Lavender	3' O.C.	Low (.2)
2%	*Santolina chamaecyparissus*	Cotton Lavender	2' O.C.	Low (.2)
4%	*Lupinus excubitus*	Grape Soda Lupine	5' O.C.	Very Low (.1)
		GRASSES		
10%	*Calamagrostis x acutiflora*	Feather Reed Grass	3' O.C.	Low (.2)
10%	*Muhlenbergia capillaris*	Hairy Awn Muhly	3' O.C.	Low (.2)
		PERENNIAL		
17%	*Iris x Germanica*	Bearded Iris	2' O.C.	Low (.2)
17%	*Coreopsis lanceolata*	Lanceleaf Tickseed	2' O.C.	Low (.2)
17%	*Achillea millefolium*	Common Yarrow	2' O.C.	Low (.2)
		GROUNDCOVER		
15%	*Thymus serpyllum*	Creeping Thyme	1' O.C.	Low (.2)

LOW MIX 2

%	BOTANICAL NAME	COMMON NAME	SPACING/REMARK	WUCOLS (PF)
		SHRUBS		
3%	Lavendula allardii 'Meerlo'	Meerlo Lavender	2' O.C.	Low (.2)
3%	Lavendula x intermedia 'phenomenal'	Phenomenal Lavender	4' O.C.	Low (.2)
3%	Salvia pachyphylla	Rose Sage	3' O.C.	Low (.2)
3%	Salvia rosmarinus	Rosemary	5' O.C.	Low (.2)
7%	Salvia clevelandii 'Pozo Blue'	Pozo Blue Sage	5' O.C.	Low (.2)
7%	Romneya coulteri	Coulter's Matilija Poppy	6' O.C.	Very Low (.1)
		GRASSES		
10%	Nassell tenuissima	Mexican Feather Grass	2' O.C.	Low (.2)
10%	Muhlenbergia capillaris	Pink Muhly Grass	3' O.C.	Low (.2)
10%	Nassella pulchra	Purple Needlegrass	3' O.C.	Very Low (.1)
		PERENNIAL		
12%	Achillea millefolium	Common Yarrow	2' O.C.	Low (.2)
12%	Gaillardia x grandiflora	Blanket Flower	2' O.C.	Low (.2)
		GROUNDCOVER		
20%	Salvia sonomensis	Sonoma Sage	2' O.C.	Low (.2)

MODERATE MIX

%	BOTANICAL NAME	COMMON NAME	SPACING/REMARK	WUCOLS (PF)
		SHRUBS		
2%	Salvia guaranitica "Black and Blue"	Black and Blue Sage	5' O.C.	Moderate (.5)
2%	Camellia sasanqua 'Bonanza'	Bonanza Camellia	6' O.C.	Moderate (.5)
2%	Salvia greggi	Autumn Sage	3' O.C.	Moderate (.5)
2%	Salvia microphylla "Hot Lips"	Graham Sage	3' O.C.	Moderate (.5)
2%	Salvia officinalis 'Tricolor'	Tricolor Sage	2' O.C.	Moderate (.5)
		GRASSES		
2%	Miscanthus sinensis	Eulalia Grass	6' O.C.	Moderate (.5)
10%	Liriope spp.	Lilyturfs	18" O.C.	Moderate (.5)
		PERENNIAL		
8%	Iberis spp.	Candy Tuft	12" O.C.	Moderate (.5)
8%	Echinacea purpurea	Purple Coneflower	2' O.C.	Moderate (.5)
8%	Rudbeckia fulgida Goldstrum	Black Eyed Susan	18" O.C.	Moderate (.5)
8%	Scabiosa spp.	Pincushion Flower	12" O.C.	Moderate (.5)
8%	Leucanthemum × superbum	Shasta Daisy	2' O.C.	Moderate (.5)
8%	Agapanthus africanus 'Albus'	White Agapanthus	18" O.C.	Moderate (.5)
		GROUNDCOVER		
15%	Lithodora diffusa 'Heavenly Blue'	Lithodora 'Heavenly Blue'	12" O.C.	Moderate (.5)
15%	Phlox solonifera	Phlox	2' O.C.	Moderate (.5)

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ISSUE & REVISION Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

CHICO AQUATIC AND RECREATION FACILITY

CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

PLANTING PLANS - AREA 3

LP103

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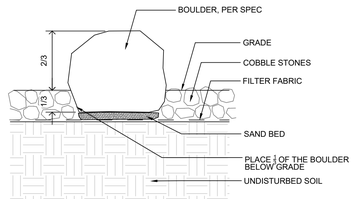
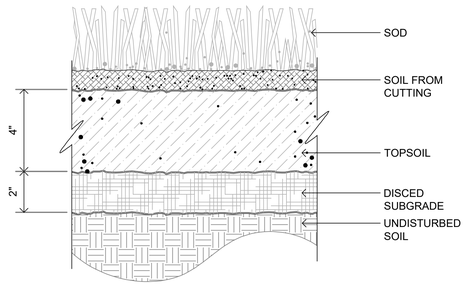
IF LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG, ATTHIS SHEET IS ARCH D SIZED

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, ON ARCH D SIZED SHEETS

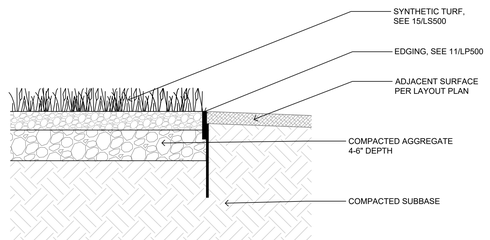
File Location: \\corp.thinkconfluence.com\data\Chicago\Projects\2023\23030_Chico Aquatic and Recreation Facility\23030_WORKING\AUTOCAD\SHEETS\LP100 PLANTING PLANS / SAVE DATE: 2/6/2025 1:58 PM BY: twuthrich / PLOT DATE: 2/16/2025 2:53 PM BY: Devon Dillinger



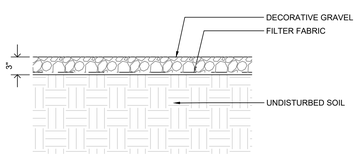
12 LP500 BOULDER, TYP. SCALE: 1" = 1'-0"



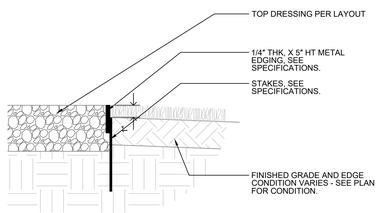
8 LP500 SOD PLANTING, TYP. SCALE: 4" = 1'-0"



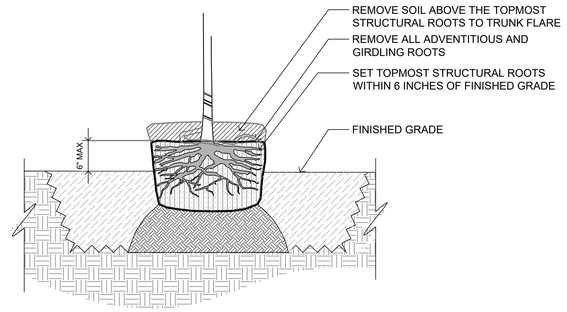
4 LP500 SYNTHETIC GRASS STEEL EDGE, TYP. N.T.S



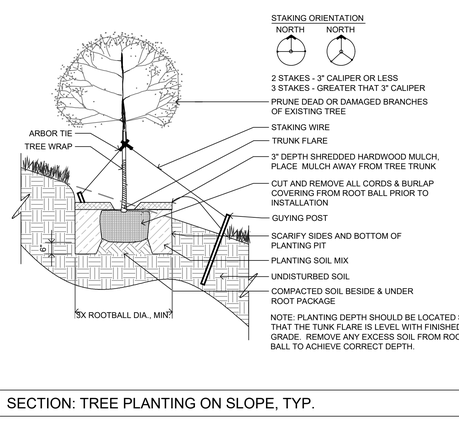
15 LP500 DECORATIVE GRAVEL MULCH, TYP. SCALE: 1" = 1'-0"



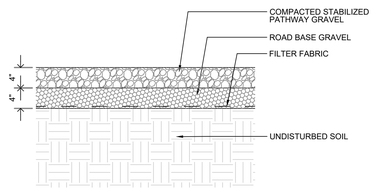
11 LP500 SECTION: STEEL EDGE, TYP. SCALE: 1 1/2" = 1'-0"



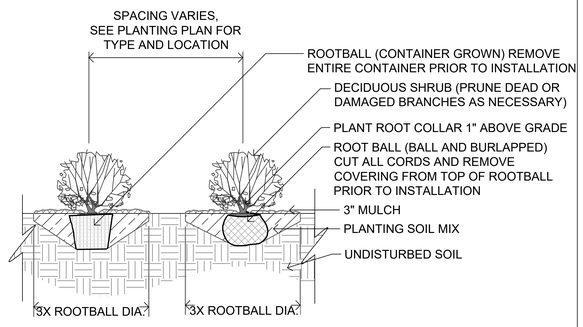
7 LP500 SECTION: ROOTBALL DEPTH SCALE: 1" = 1'-0"



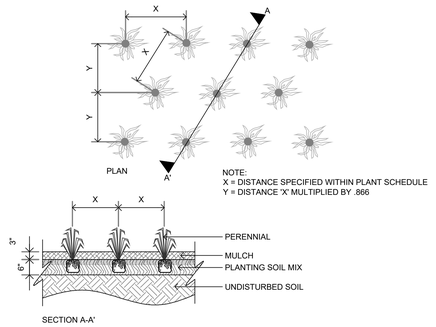
3 LP500 SECTION: TREE PLANTING ON SLOPE, TYP. SCALE: 3/8" = 1'-0"



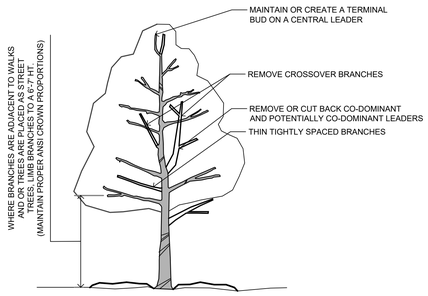
14 LP500 PATHWAY GRAVEL, TYP. SCALE: 1" = 1'-0"



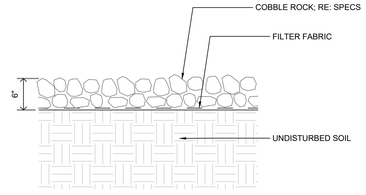
10 LP500 SECTION: SHRUB PLANTING, TYP. SCALE: 3/4" = 1'-0"



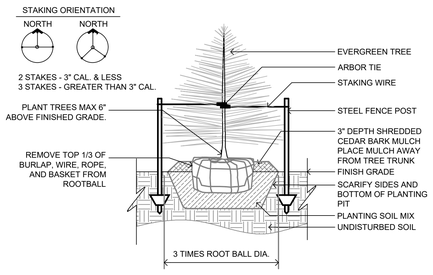
6 LP500 PLAN/SECTION: PERENNIAL PLANTING, TYP. SCALE: 1/2" = 1'-0"



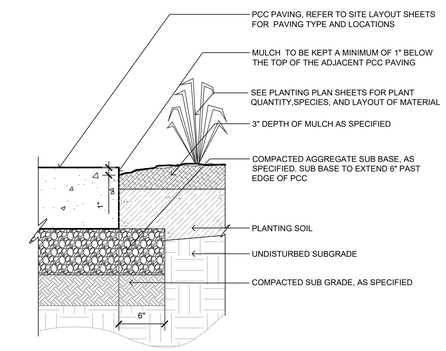
2 LP500 EXISTING TREE PRUNING SCALE: 1" = 1'-0"



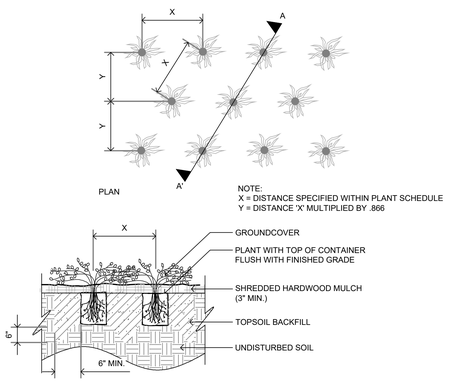
13 LP500 COBBLE MULCH, TYP. SCALE: 4" = 1'-0"



9 LP500 SECTION: TREE PLANTING, TYP. SCALE: 1/2" = 1'-0"



5 LP500 PLAN/SECTION: PERENNIAL PLANTING, TYP. SCALE: 1 1/2" = 1'-0"



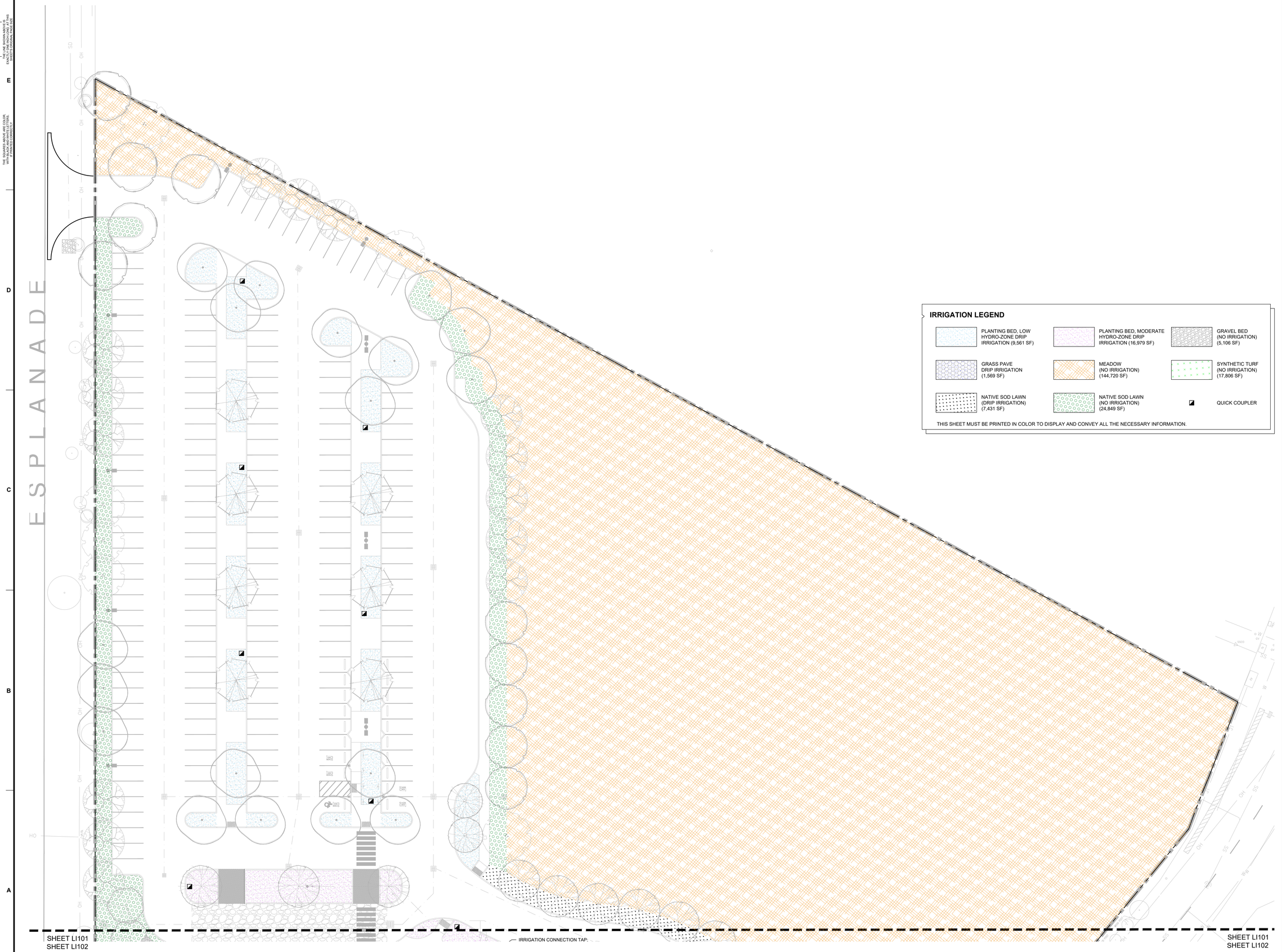
1 LP500 PLAN/SECTION: GROUNDCOVER PLANTING, TYP. SCALE: 1/2" = 1'-0"

PLANTING DETAILS

LP500

IF LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG, ATTHIS PLOT SCALE, ADJUST PLOT SCALE

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, IN PRINTED PRODUCT



IRRIGATION LEGEND

- PLANTING BED, LOW HYDRO-ZONE DRIP IRRIGATION (9,561 SF)
- PLANTING BED, MODERATE HYDRO-ZONE DRIP IRRIGATION (16,979 SF)
- GRAVEL BED (NO IRRIGATION) (5,106 SF)
- GRASS PAVE DRIP IRRIGATION (1,569 SF)
- MEADOW (NO IRRIGATION) (144,720 SF)
- SYNTHETIC TURF (NO IRRIGATION) (17,806 SF)
- NATIVE SOD LAWN (DRIP IRRIGATION) (7,431 SF)
- NATIVE SOD LAWN (NO IRRIGATION) (24,849 SF)
- QUICK COUPLER

THIS SHEET MUST BE PRINTED IN COLOR TO DISPLAY AND CONVEY ALL THE NECESSARY INFORMATION.

1 LI101 HARDSCAPE PLAN - AREA 1

0' 10' 20' 40'

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ISSUE & REVISION Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

IRRIGATION PLANS - AREA 1

LI101

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File Location: \\corp.thinkconfluence.com\data\Chicago\Projects\2023\23030_Chico Aquatic and Recreation Facility\23030_WORKING\AUTOCAD\SHEETS\LI101 IRRIGATION PLANS | SAVE DATE: 2/10/2025 10:02 AM BY: hvorhirsh | PLOT DATE: 2/16/2025 2:55 PM BY: Devon Dillinger

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZED PRINTED DRAWINGS

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, WHEN PRINTED CORRECTLY

IRRIGATION GENERAL NOTES

A. REFERENCE ALL DRAWINGS SHEETS AND SPECIFICATIONS THROUGHOUT THE CONSTRICTION DOCUMENTS. NOT ALL NOTES ARE ON THIS SHEET. REFER TO OTHER DIVISIONS FOR ALL WORK.

IRRIGATION LEGEND

- PLANTING BED, LOW HYDRO-ZONE DRIP IRRIGATION (9,561 SF)
- PLANTING BED, MODERATE HYDRO-ZONE DRIP IRRIGATION (16,979 SF)
- GRAVEL BED (NO IRRIGATION) (5,106 SF)
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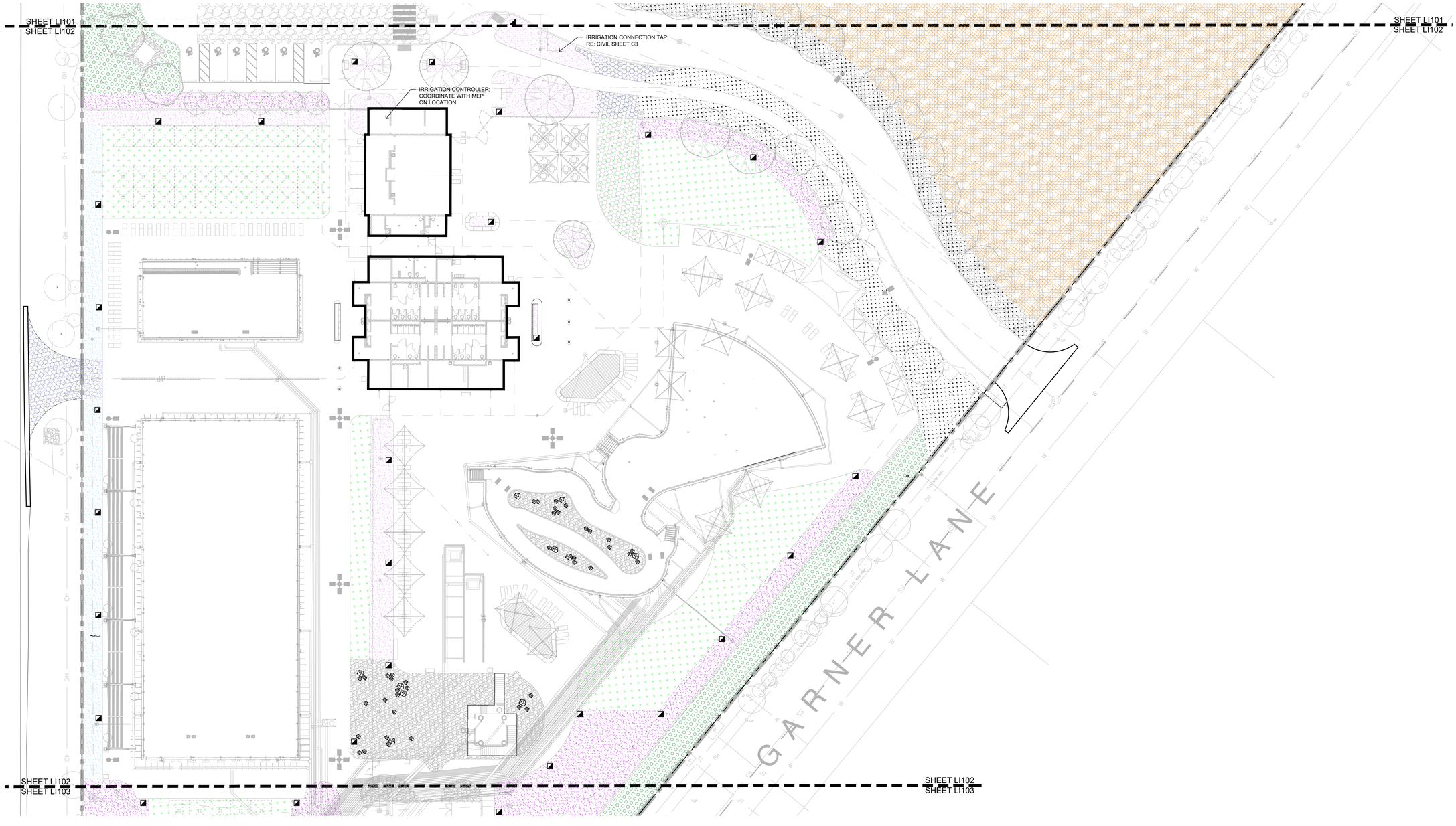

1 LI102 HARDSCAPE PLAN - AREA 2

0' 10' 20' 40'

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PERMIT REVIEW & BID SET ONLY
DOCUMENT PACKAGE NOT FOR CONSTRUCTION

ISSUE & REVISION Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

IRRIGATION PLANS - AREA 2

LI102

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IF THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG, ATTHIS PLOT SCALE, ADJUST YOUR PLOTTER

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, WHEN PLOTTED CORRECTLY

C M Y K

IRRIGATION SUMMARY:

IRRIGATION AREAS	224,021 SF	
PLANTING BED DRIP IRRIGATION	26,540 SF	12%
SYNTHETIC TURF (NO IRRIGATION)	17,806 SF	8%
GRAVEL BED (NO IRRIGATION)	5,106 SF	2%
GRASSPAVE DRIP IRRIGATION	1,569 SF	1%
NATIVE SOD LAWN DRIP IRRIGATION	7,431 SF	3%
NATIVE SOD LAWN (NO IRRIGATION)	24,849 SF	11%
MEADOW (NO IRRIGATION)	140,720 SF	63%

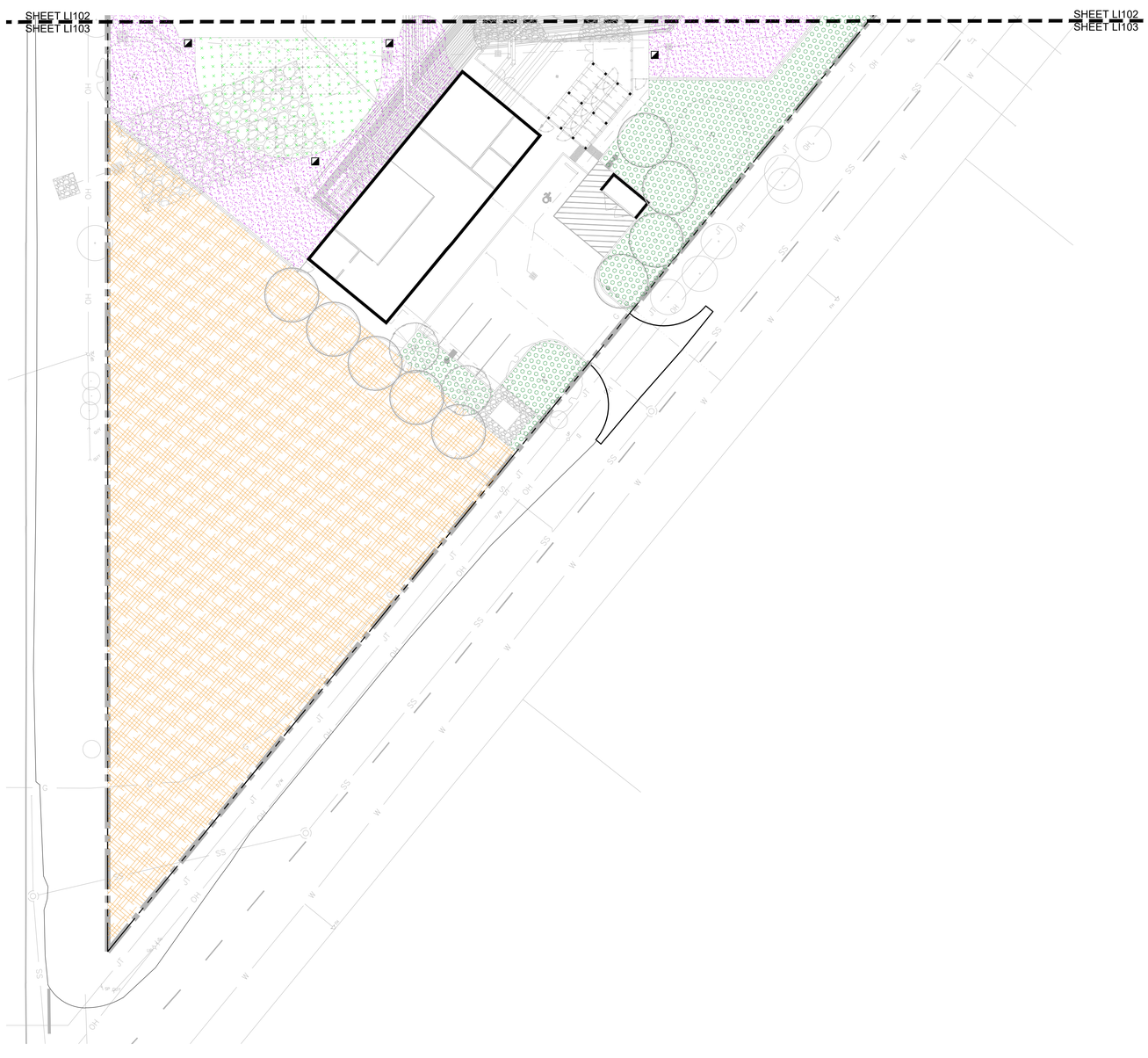
IRRIGATION GENERAL NOTES

A. REFERENCE ALL DRAWINGS SHEETS AND SPECIFICATIONS THROUGHOUT THE CONSTRICTION DOCUMENTS. NOT ALL NOTES ARE ON THIS SHEET. REFER TO OTHER DIVISIONS FOR ALL WORK.

IRRIGATION LEGEND

- PLANTING BED, LOW HYDRO-ZONE DRIP IRRIGATION (9,561 SF)
- PLANTING BED, MODERATE HYDRO-ZONE DRIP IRRIGATION (16,979 SF)
- **GRAVEL BED (NO IRRIGATION) (5,106 SF)**
- GRASS PAVE DRIP IRRIGATION (1,569 SF)
- MEADOW (NO IRRIGATION) (144,720 SF)
- **SYNTHETIC TURF (NO IRRIGATION) (17,806 SF)**
- NATIVE SOD LAWN (DRIP IRRIGATION) (7,431 SF)
- NATIVE SOD LAWN (NO IRRIGATION) (24,849 SF)
- QUICK COUPLER

THIS SHEET MUST BE PRINTED IN COLOR TO DISPLAY AND CONVEY ALL THE NECESSARY INFORMATION.



1 LI103 HARDSCAPE PLAN - AREA 3

0' 10' 20' 40'

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IRRIGATION PLANS - AREA 3

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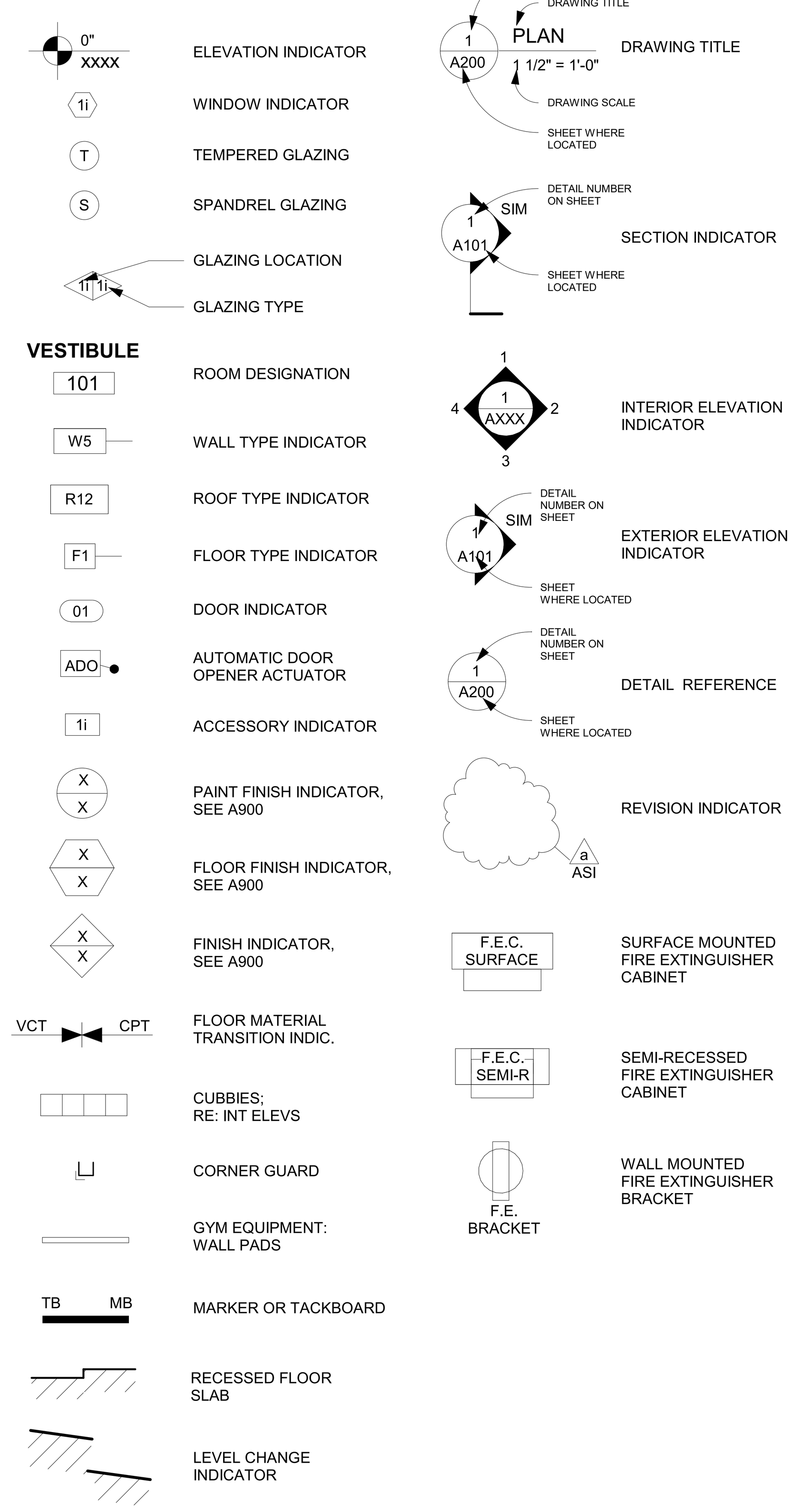
ABBREVIATIONS

AB	ANCHOR BOLT
AC	AIR CONDITIONING
ACC	ACCESSIBLE OR ACCESSIBILITY
ACCT	ACCENT
ACOUST	ACOUSTICAL
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJUSTABLE
ADJT	ADJACENT
AFF	ABOVE FINISH FLOOR
ALUM/AL	ALUMINUM
ALT	ALTERNATE
APC	ACRYLIC POLYMER COATING
APPROX	APPROXIMATE
ARCH	ARCHITECT/ARCHITECTURAL
ASPH	ASPHALT
AUTO	AUTOMATIC
AWI	AMERICAN WOODWORKING INST.
BBF	STANDARD (2X) SMALL DRAWERS OVER FILE DRAWER
BD	BOARD
BITUM	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BENCH MARK
BM	BEAM
B.O.	BOTTOM OF
BRG	BEARING
BSMT	BASEMENT
CAB	CABINET
CBB	CEMENTITIOUS BACKER BOARD
CFA	COMPUTER FLOOR AREA
CHNLS	CHANNELS
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CMT	CERAMIC MOSAIC TILE
CMT-B	CERAMIC MOSAIC TILE BASE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CONSTR	CONSTRUCTION
COORD	COORDINATE
CPT	CARPET
CSWK	CASEWORK
CSI	CONSTRUCTION SPECIFICATIONS INSTITUTE
CTP	CERAMIC TILE PAVERS
CUH	CABINET UNIT HEATER
CWT	CERAMIC WALL TILE
D	DRYER (IN PLAN)
DBL	DOUBLE
DEMO	DEMOLISH, DEMOLITION
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM.	DIMENSION
DISP	DISPENSER
DN	DOWN
DR	DOOR
DS	DOWN SPOUT
DTL	DETAIL
DW	DISHWASHER
DWG	DRAWING
(E)	EXISTING
EA	EACH
EIFS	EXTERIOR INSULATION & FINISH SYSTEM
EJ	EXPANSION JOINT
ELEV/EL	ELEVATION
ELEV	ELEVATOR
ELEC	ELECTRICAL
ENCL	ENCLOSURE
ENGR	ENGINEERED
EPF	EPOXY POURED FLOOR
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
EX	EXPOSED
EXH	EXHAUST
EXP	EXPANSION
EXP-JT	EXPANSION JOINT
EXT	EXTERIOR
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
FACT-F	FACTORY FINISH
FBGL	FIBERGLASS
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FF&E	FURNITURE, FIXTURES & EQUIPMENT
FG	FINISH GRADE
FHC	FIRE HOSE CABINET
FIN	FINISH(ED)
FIN-FLR	FINISH FLOOR
FIXT	FIXTURE
FLD	FIELD
FLR	FLOOR
FLRG	FLOORING
FO	FACE OF
FOS	FACE OF STUD
FR	FIRE RESISTIVE
FR	FRAME
FRMG	FRAMING
FRP	FIBER REINFORCED PANEL
FT	FOOT/FEET
FTG	FOOTING
FURN	FURNITURE
FUT	FUTURE
GA	GAUGE
GAL	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GHM	GALVANIZED HOLLOW METAL
GL	GLASS
GLU LAM	GLUE LAMINATED WOOD
GMGU	GLASS MESH GYPSUM UNIT
GR	GRADE
GYP BD/GWB	GYPSUM BOARD
HB	HOSE BIB
HC	HOLLOW CORE
HDBD	HARDBOARD
HDR	HEADER
HDWR	HARDWARE
HM	HOLLOW METAL
HORZ/H	HORIZONTAL
HPC	HIGH PERFORMANCE COATING
HRU	HEATING ROOFTOP UNIT
HT/H	HEIGHT
HTR	HEATER
HVAC	HEATING, VENTING & AIR CONDITIONING
IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER
INDIC	INDICATOR
INSUL	INSULATION
INT	INTERIOR
JAN	JANITOR
JT	JOINT
JST	JOIST
KD	KNOCK DOWN
KIT	KITCHEN
LAM	LAMINATE
LAV	LAVATORY
LF	LINEAR FOOT
LIN	LINOLEUM
LT	LIGHT
MAT.	MATERIAL
MANUF	MANUFACTURE
MAX	MAXIMUM
MB	MARKER BOARD
MD	METAL DECK
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MH	MANHOLE
MISC	MISCELLANEOUS

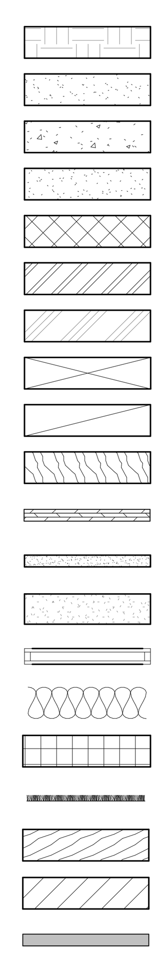
MIN	MINIMUM
MIR	MIRROR
MO	MASONRY OPENING
MTD	MOUNTED
MTG	MEETING
MTL	METAL
(N)	NEW
N	NORTH
NA	NOT APPLICABLE
NAT	NATATORIUM
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO.	NUMBER
NOM	NOMINAL
NON-COM	NON-COMBUSTIBLE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFC/OFF	OFFICE
OH	OVER HEAD
OPG	OPENING
OPP	OPPOSITE
OV	OVER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
PC	PRECAST CONCRETE
PCV	POLYVINYL CHLORIDE
PL	PROPERTY LINE
PL	PLATE
PLG	PLUMBING
PLAM	PLASTIC LAMINATE
PLYWD	PLYWOOD
PNL	PANEL
P.O.S.	POINT OF SALES
PR	PAIR
PREFAB	PREFABRICATED
POR	PORCELAIN TILE
PT	PAINT
PTN	PARTITION
QT	QUARRY TILE
R	RISER
RAD	RADIUS
RB	RACQUETBALL
RB	RUBBER BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RE:	REFER/REFERENCE
REF	REFRIGERATOR
REINF	REINFORCED
REQ	REQUIRED
RESIL	RESILIENT
REV	REVISION
RFG	ROOFING
RM	ROOM
R-NOSING	RUBBER STAIR NOSING
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RTFS	RUN TRACK FLR SYSTEM
RTU	ROOF TOP UNIT
SAT	SUSPENDED ACOUSTICAL TILE
SC	SOLID CORE
SCHED	SCHEDULE
S-CONC	SEALED CONCRETE
SEAL	SEALER
SECT	SECTION
SF	SQUARE FOOT/FEET
SHT	SHEET
SHWR	SHOWER
SIM	SIMILAR
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTOR NATIONAL ASSOCIATION
SPEC	SPECIFICATIONS
SPRL	SPANDREL
SQ	SQUARE
SS	SOLID SURFACE
S-STL	STAINLESS STEEL
ST	STAIN
STA	STATION
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STHG	SHEATHING
STL	STEEL
SUPPL	SUPPLIED
SUSP	SUSPENDED
STOR	STORAGE
STR	STRINGER
STRL	STRUCTURAL
STRUCT	STRUCTURE, STRUCTURAL
SYM	SYMMETRICAL
SYST	SYSTEM
T	TREAD (IN PLAN)
T	TEMPERED (ON WINDOW)
TB	TACK BOARD
TBB	TILE BACKER BOARD
TBD	TO BE DETERMINED
T&B	TOP & BOTTOM
TC	TOP OF CURB
T&G	TONGUE & GROOVE
TEL	TELEPHONE
TEMP	TEMPERED
THK	THICKNESS
THLD	THRESHOLD
T.O.	TOP OF
T.O. B	TOP OF BEAM
T.O. C	TOP OF CONCRETE
T.O. F	TOP OF FLR/FOOTING
T.O. M	TOP OF MASONRY
T.O. S	TOP OF SLAB
T.O. STL	TOP OF STEEL
TS	TUBE STEEL
TV	TELEVISION
TYP	TYPICAL
TYPE 'X'	FIRE RATED GYPSUM BOARD
UBC	UNIFORM BUILDING CODE
UL	UNDERWRITER'S LABORATORY
UNFIN	UNFINISHED
UON	UNLESS OTHERWISE NOTED
VAR	VARIES
VNR	VENEER
VER/V	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VOC	VOLATILE ORGANIC COMPOUND
W	WASHER (IN PLAN)
W	WIRE GLASS (ON WINDOW)
W/	WITH
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WF	WIDE FLANGE
WH	WATER HEATER
WI	WROUGHT IRON
W/O	WITHOUT
WP	WATERPROOF
WR	WATER RESISTANT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
℄	CENTER LINE
<	ANGLE
[	CHANNEL
Ø or °	DIAMETER
⅊	PLATE
@	AT
X	BY
&	AND
#	POUND OR NUMBER
+/-	PLUS OR MINUS
'	FEET
"	INCHES
( )	QUANTITY

REFER TO CONSTRUCTION SPECIFICATION INSTITUTE, UNIFORM DRAWING SYSTEM AND TO PROJECT SPECIFICATIONS FOR REFERENCE STANDARDS & ADDITIONAL ABBREVIATIONS

SYMBOLS LEGEND



MATERIALS LEGEND



- EARTH/COMPACT FILL
- GRAVEL/POROUS FILL
- CONCRETE (PRECAST OR CAST IN PLACE)
- SAND/MORTAR/PLASTER/GROUT
- CONCRETE BLOCK
- STEEL
- ALUMINUM
- CONTINUOUS WOOD BLOCKING
- NON-CONTINUOUS WOOD BLOCKING
- WOOD FINISH
- PLYWOOD
- PARTICLE BOARD
- GYPSUM BOARD
- GLASS
- BATT/LOOSE FILL INSULATION
- RIGID INSULATION
- CARPET
- WOOD GLULAM
- BRICK/STONE VENEER
- SOLID SURFACE

GENERAL NOTES

GENERAL REQUIREMENTS

1. ATTENTION ALL USERS OF THESE DRAWINGS, GENERAL CONTRACTORS, SUB-CONTRACTORS, MANUFACTURERS, SUPPLIERS: CAREFULLY AND THOROUGHLY REVIEW THESE GENERAL NOTES. IT IS YOUR RESPONSIBILITY TO KNOW AND ADHERE TO THESE REQUIREMENTS.

2. THE DRAWINGS AND SPECIFICATIONS ARE SEPARATED INTO DISCIPLINES FOR THE CONVENIENCE OF THE ARCHITECT AND THE CONTRACTOR. THE SEPARATIONS USED HEREIN ARE USED ONLY FOR THE PURPOSES OF CONVENIENCE AND REFERENCE, AND IN NO WAY DO THEY DEFINE OR LIMIT THE SCOPE OR INTENT OF ANY PART OF THE DRAWINGS, OR OF THE DRAWINGS AND SPECIFICATIONS AS A WHOLE. THE FACT THAT THE DRAWINGS ARE SEPARATED IN NO WAY SUGGESTS THAT THE WORK IS NOT TO BE CONSTRUCTED AS A COMPLETE, INTEGRATED AND UNIFIED WHOLE.

3. EVERY EFFORT HAS BEEN MADE TO MAKE THESE DOCUMENTS CONCISE AND COORDINATED, TO DEFINE WORK IN THE MOST LOGICAL PLACE AND TO ELIMINATE REDUNDANCY. DO NOT PRESUME THAT YOUR SCOPE OF WORK IS SINGULARLY DEFINED. YOUR SCOPE OF WORK IS DEFINED THROUGHOUT THE ENTIRE SET OF DRAWINGS AND SPECIFICATIONS AND IS NOT CONTAINED IN JUST ONE SERIES OF DRAWINGS OR DIVISION OF SPECIFICATIONS. YOU MUST REVIEW THE ENTIRE SET OF CONTRACT DOCUMENTS TO DETERMINE YOUR SCOPE OF WORK.

4. THE DRAWINGS AND SPECIFICATIONS, INCLUDING DRAWINGS PREPARED BY SPECIFIC ENGINEERING DISCIPLINES (SUCH AS STRUCTURAL, MECHANICAL, ELECTRICAL, ETC.) ARE COMPLEMENTARY; ITEMS SHOWN IN ANY ONE LOCATION IN THE DRAWINGS SHALL BE CONSIDERED TO BE REQUIREMENTS OF THE CONTRACT FOR CONSTRUCTION. IN THE EVENT OF AN INCONSISTENCY BETWEEN THE DRAWINGS AND SPECIFICATIONS, OR WITHIN EITHER DOCUMENT, THE CONTRACTOR SHALL SEEK CLARIFICATION OR INTERPRETATION FROM THE ARCHITECT PRIOR TO BIDDING. WHERE INCONSISTENCIES ARE NOT CLARIFIED PRIOR TO BIDDING, AND WHERE THE ACTUAL SOLUTION OR INTENT CANNOT BE REASONABLY INFERRED, THE CONTRACTOR SHALL PROVIDE THE BETTER QUALITY OR GREATER QUANTITY OF WORK.

5. MECHANICAL AND ELECTRICAL DRAWINGS SHOW INFORMATION IN A DIAGRAMMATIC FASHION WITHOUT DIMENSIONING. THE GENERAL CONTRACTOR IS TO COORDINATE THE LOCATIONS OF ALL M.E. EQUIPMENT WITH RESPECT TO THE ARCHITECTURAL AND STRUCTURAL DETAILING OF SHAFTS, CHASES, AND SUCH.

6. THE CONTRACTOR AND ALL SUB-CONTRACTORS SHALL VISIT THE SITE AND BECOME FAMILIAR WITH SITE CONDITIONS AS THEY MAY AFFECT CARRYING OUT THE WORK AS DESCRIBED IN THESE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL INVESTIGATE, VERIFY, AND BE RESPONSIBLE FOR ALL CONDITIONS OF THE PROJECT, AND NOTIFY THE ARCHITECT OF ANY CONDITIONS THAT REQUIRE MODIFICATION BEFORE PROCEEDING WITH THE WORK.

7. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITY LINES. LOCATIONS SHOWN ARE APPROXIMATE. REPAIR ALL DAMAGE TO UTILITY LINES CAUSED BY CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.

8 ALL PERSONS DIRECTLY OR INDIRECTLY ASSOCIATED WITH THE PROJECT SHALL BE FAMILIAR WITH THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT, AND IMPLEMENT THOSE RULES AS THEY APPLY TO THIS PROJECT.

9. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, EQUIPMENT, LABOR, AND SERVICES NECESSARY TO COMPLETE THE WORK.

10. ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH THE BUILDING CODE & LOCAL AMENDMENTS. REFER TO CODE ANALYSIS AND CODE PLANS.

11. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL TRADES AND THE PREVENTION OF CONFLICT BETWEEN ALL TRADES.

12. PRIOR TO BEGINNING ANY WORK, THE CONTRACTOR SHALL CONDUCT A WALK THROUGH INSPECTION WITH THE OWNER TO DETERMINE IN WRITING THE CONDITION OF THE WORK ALREADY IN PLACE. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING OR REPLACING EQUIPMENT PRESENTLY IN PLACE THAT IS DAMAGED DURING CONSTRUCTION.

13. CONTRACTOR SHALL SUBMIT CONFIRMATION OF ORDERED MATERIALS OR ITEMS NECESSARY TO COMPLETE THE PROJECT WITH PROJECTED DELIVERY DATE GREATER THAN FOUR WEEKS.

14. ALL SUB-CONTRACTORS SHALL SUBMIT SHOP DRAWINGS AS REQUIRED FOR ARCHITECTS APPROVAL PRIOR TO COMMENCING ANY WORK.

15. SEAL AROUND ALL PENETRATIONS THROUGH EXISTING AND PROPOSED FIRE RATED PARTITIONS. PROVIDE UL APPROVED FIRESTOP SYSTEM TO MEET REQUIRED RATING.

DRAWINGS AND DIMENSIONS

1. DO NOT SCALE THE DRAWINGS.

2. ALL DIMENSIONS ON PLANS ARE TO FACE OF BLOCK OR TO FACE OF STUD UNLESS NOTED OTHERWISE.

3. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ARCHITECT IMMEDIATELY SHOULD ANY DISCREPANCIES BE FOUND IN THE DRAWINGS AND SPECIFICATIONS.

4. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CHECKING ALL FIELD CONDITIONS AND DIMENSIONS AS THEY RELATE TO THIS PROJECT. SHOULD DISCREPANCIES EXIST BETWEEN THE WORK INDICATED AND ACTUAL FIELD CONDITIONS NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.

5. ACTUAL CONTRACT LIMITS ARE TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE OWNER BEFORE ACTUAL CONSTRUCTION WORK BEGINS. ANY INDICATION OF PROJECT LIMITS OR LINES OF DEMARCATION ARE SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR, AND ARE NOT TO BE TAKEN LITERALLY.

6. SEE GENERAL NOTES ON ALL 'A' SERIES DRAWINGS FOR INFORMATION RELATED TO PLANS AND DETAILS ON THOSE SHEETS.

7. THE TERM "ALIGN" REFERS TO LOCATING DIFFERENT COMPONENTS OF CONSTRUCTION TO PROVIDE A FLUSH FINISH SURFACE.

8. CONTRACTORS AND ALL SUB-CONTRACTORS SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION AND/OR ORDERING OF MATERIALS.

9. USE OF THE WORD "VERIFY" POINTS OUT A SITUATION WHICH MUST BE CONFIRMED PRIOR TO PROCEEDING WITH THE WORK, FABRICATION OF EQUIPMENT, OR ORDERING MATERIAL. NOTIFY THE ARCHITECT OF ANY DISCREPANCY.

10. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL CEILING FIXTURES. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR COMPLETE CONSTRUCTION REQUIREMENTS.

11. ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS SHOW WHERE EXPOSED DUCTWORK IS TO BE INSTALLED AT A SPECIFIC ELEVATION IN A CONTROLLED PATTERN. THE CONTRACTOR MUST RELY ON ALL OF THESE DISCIPLINES TO COMPLETE THE WORK AND SHOULD NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.

12. THE GENERAL CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES INSTALLING THEIR RESPECTIVE EQUIPMENT IN THE CEILING PLENUMS. MECHANICAL, ELECTRICAL, STRUCTURAL, AND FIRE SPRINKLER SYSTEMS ALL SHARE THIS SAME SPACE. EACH SUB CONTRACTOR IS TO REVIEW THE REQUIREMENTS OF THEIR WORK WITH THE AWARENESS OF THE OTHER TRADES THAT NEED TO SHARE THESE SPACES AND MUST NOT ASSUME THAT THEIR INSTALLATION HAS BEEN CONSIDERED IN THE DESIGN AND SHOP DRAWINGS OF THE OTHER TRADES.

13. ALL DOORS TO BE LOCATED 4" OFF ADJACENT CMU OR METAL STUD WALL UNLESS DIMENSIONED OTHERWISE ON THE PLAN.

PARTITION NOTES

1. PROVIDE AND INSTALL ALL BLOCKING STIFFENERS, BRACING, BACK-UP PLATES AND SUPPORTING BRACKETS REQUIRED FOR THE INSTALLATION OF ALL CASEWORK AND OF ALL FLOOR MOUNTED OR SUSPENDED MECHANICAL AND ELECTRICAL EQUIPMENT.

2. COORDINATE METAL STUD GAUGE WITH PRE-APPROVED EQUIPMENT ANCHORAGE. WHERE A DISCREPANCY OCCURS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.

3. THERE SHALL BE NO BACK-TO-BACK ELECTRICAL TELEPHONE, OR OTHER OUTLETS, EXCEPT WHERE SPECIFICALLY SHOWN.

4. PROVIDE ACOUSTIC (SOUND) SEALANT AT NON-RATED WALLS AND FIRE-RATED SEALANT AT SMOKE PARTITION AND AS REQUIRED BY TEST NUMBER.

CONSTRUCTION NOTES

1. DRAWINGS ARE PREPARED USING DIMENSIONS AND PRODUCT CONFIGURATIONS OR DETAILS OF SPECIFIC MANUFACTURERS (TYPICALLY THE FIRST MANUFACTURER LISTED UNDER "ACCEPTABLE MANUFACTURERS" IN THE SPECIFICATIONS). DIMENSIONS AND DETAILS FOR SPECIFIC PRODUCTS MAY CHANGE BEFORE THEY ARE ACTUALLY INCORPORATED INTO THE WORK, AND PRODUCTS BY OTHER MANUFACTURERS MAY ALSO BE ACCEPTABLE. THEREFORE, ACTUAL INSTALLATION DETAILS AND DIMENSIONS MAY DIFFER FROM THOSE SHOWN. CONTRACTOR SHALL VERIFY INSTALLATION REQUIREMENTS FOR ALL PRODUCTS TO BE INCORPORATED IN THE WORK (INCLUDING PARTITION THICKNESS FOR RECESSED OR SEMI-RECESSED PRODUCTS), AND IS RESPONSIBLE FOR ACCOMMODATING AND COORDINATING CHANGES TO OTHER MATERIALS OR PRODUCTS THAT ARE NECESSARY BECAUSE OF THESE DIFFERENCES.

2. PROVIDE SOLID BLOCKING WITHIN PARTITIONS AT ALL LOCATIONS WHERE ITEMS WILL BE MOUNTED ON PARTITIONS INCLUDING, BUT NOT LIMITED TO: ACCESSORIES, CASEWORK TRIM, FLASHING, WALL MOUNTED EQUIPMENT, TACK/BULLETIN/MARKER BOARDS, ETC.

3. ALL WOOD BLOCKING SHALL BE FIRE-RETARDANT WOOD.

4. MAINTAIN RATING AT ALL BLOCKOUTS FOR ALL FIRE EXTINGUISHERS AND TOILET ACCESSORIES THAT ARE TO BE INSTALLED IN RATED WALLS.

5. PROVIDE 24" X 24" ACCESS PANELS IN PARTITIONS WHERE REQUIRED FOR MECHANICAL EQUIPMENT EXCEPT WHERE SIZES ARE OTHERWISE NOTED.

6. PROVIDE GYPSUM BOARD CONTROL JOINTS IN PARTITIONS AND CEILINGS AT 30'-0" MAX SPACING. COORDINATE TO MEET FIRE RESISTIVE RATINGS OF THE ASSEMBLY, FIRESTOP JOINTS AT RATED PARTITIONS. SUB-CONTRACTOR MUST PROVIDE A SUBMITTAL FOR JOINT MATERIAL.

7. CAULK ALL JOINTS OR CRACKS WHICH OCCUR WHERE DISSIMILAR MATERIALS INTERSECT PERPENDICULAR TO EACH OTHER AND WHERE THE INTERSECTION IS EXPOSED TO VIEW, UNLESS INDICATED OTHERWISE ON THE DRAWINGS.

8. FIREBLOCK ALL CONCEALED SPACES, SOFFITS, SHAFTS, CHASES AND CEILING AREAS PER REQUIREMENTS OF THE IBC AND THE LOCAL JURISDICTION'S AMENDMENTS.

9. PROVIDE CONTINUOUS PERIMETER BUILDING INSULATION AT ALL EXTERIOR WALLS FROM SLAB TO ROOF DECK.

10. THE ARCHITECTURAL AND STRUCTURAL DRAWINGS BOTH DESCRIBE VARIOUS FLOOR SLAB SLOPE REQUIREMENTS, RECESSES, AND EDGE CONDITIONS. USE BOTH SETS OF DRAWINGS WHEN INSTALLING THE FLOOR SLAB.

11. PROVIDE SLIP JOINT CONNECTIONS AT PARTITIONS THAT EXTEND TO STRUCTURE ABOVE. PROVIDE BRACING ABOVE AS REQUIRED. REFER TO STRUCTURAL DRAWINGS AND TO SLIP JOINT DETAILS.

12. ASSUME LEVEL 4 FINISH FOR ALL GYPSUM BOARD PARTITIONS, UNLESS NOTED OTHERWISE.

13. ALL EXPOSED CMU CORNERS TO BE BULLNOSE UON. WALLS COVERED IN TILE DO NOT NEED TO HAVE BULLNOSED CORNERS.

14. GROUT CMU CENTER SCORE JOINT SIMILAR TO OTHER ADJACENT JOINTS.

15. IT IS THE INTENT OF THE DESIGN THAT ALL METAL STUD PARTITIONS BE OF SUFFICIENT WIDTH TO ADEQUATELY ENCLOSE PIPING, CONDUITS, AND RECESSED EQUIPMENT. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES WITH THIS INTENT.

16. ALL VERTICAL AND HORIZONTAL PIPES, CONDUITS, DUCTS, ETC. IN FINISHED ROOMS OR AREAS THROUGHOUT THE BUILDING SHALL BE FURRED IN TO MATCH THE ROOM FINISH, UNLESS OTHERWISE NOTED.

17. WHERE MECHANICAL WORK PENETRATES ANY COMPONENT OF A FIRE-RATED ASSEMBLY, PROVIDE THE APPROPRIATE FIRE AND/OR SMOKE DAMPERS. IF IT IS NOT CLEAR WHETHER DUCTWORK PENETRATES A PORTION OF THE RATED ASSEMBLY, OBTAIN CLARIFICATION FROM THE ARCHITECT PRIOR TO BIDDING. SEAL AROUND ALL PENETRATIONS THROUGH PROPOSED FIRE RATED PARTITIONS. PROVIDE UL APPROVED FIRESTOP SYSTEM TO MEET REQUIRED RATING.

18. AT RAINSCREEN PANEL INSTALLATION USE HORIZONTAL STRAPPING AS REQUIRED PER MANUFACTURER'S RECOMMENDATION WHERE DENSGLASS OR GYP BOARD IS USED AS EXTERIOR SHEATHING.

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CIVIL ENGINEER:
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Chico, CA 95973
530.895.1422

BARKER RINKER SEACAT ARCHITECTURE

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	100% CDS
Date	01.24.2025

ABBREVIATIONS, SYMBOLS, AND GENERAL NOTES

A000

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plot to .pdf in color for paper plots, use black & white whenever possible to save printing costs
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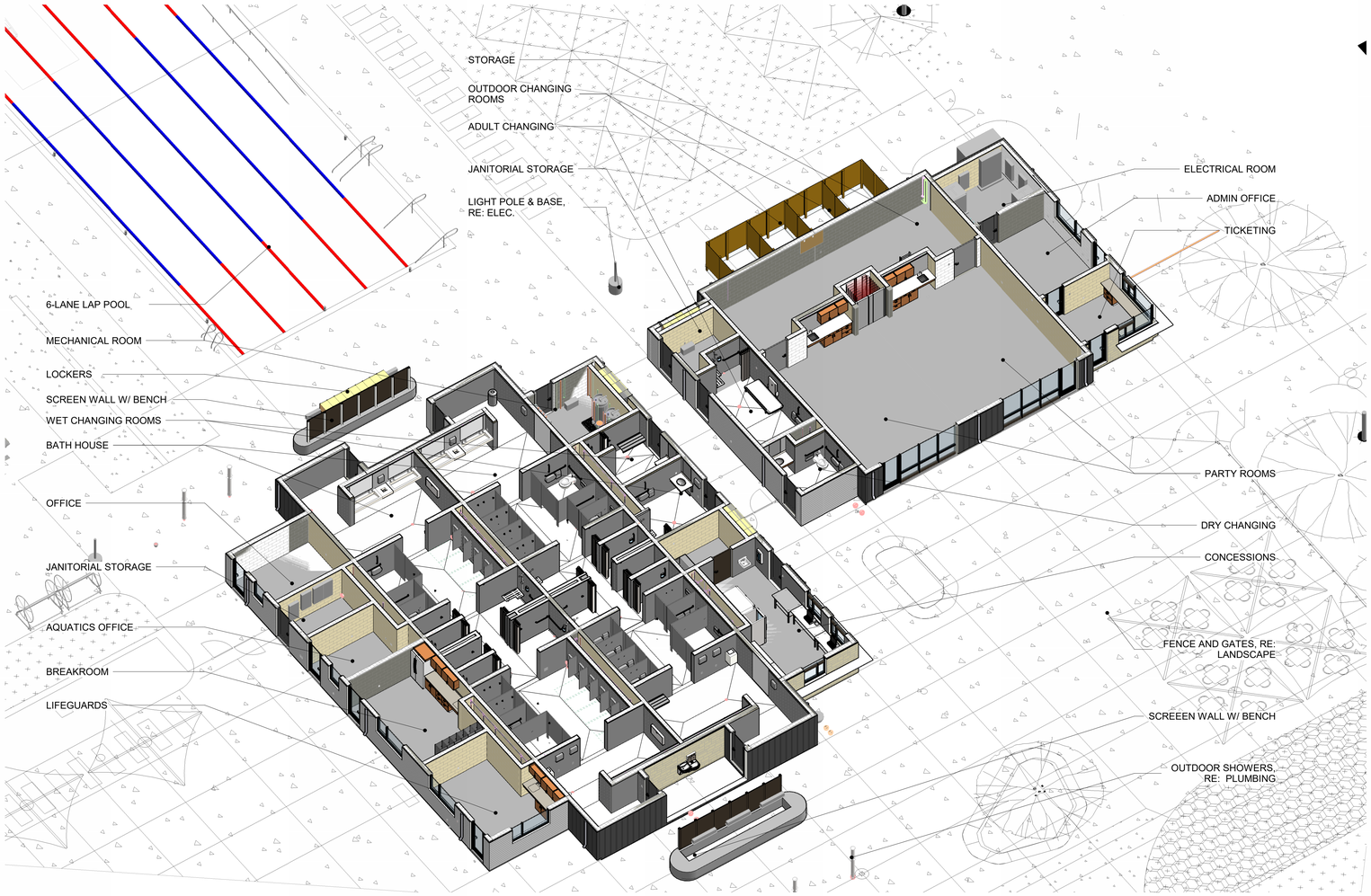

1 A005 3D - ISOMETRIC FLOOR PLAN
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Key Plan

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3D VIEWS - ISO PLAN

A005

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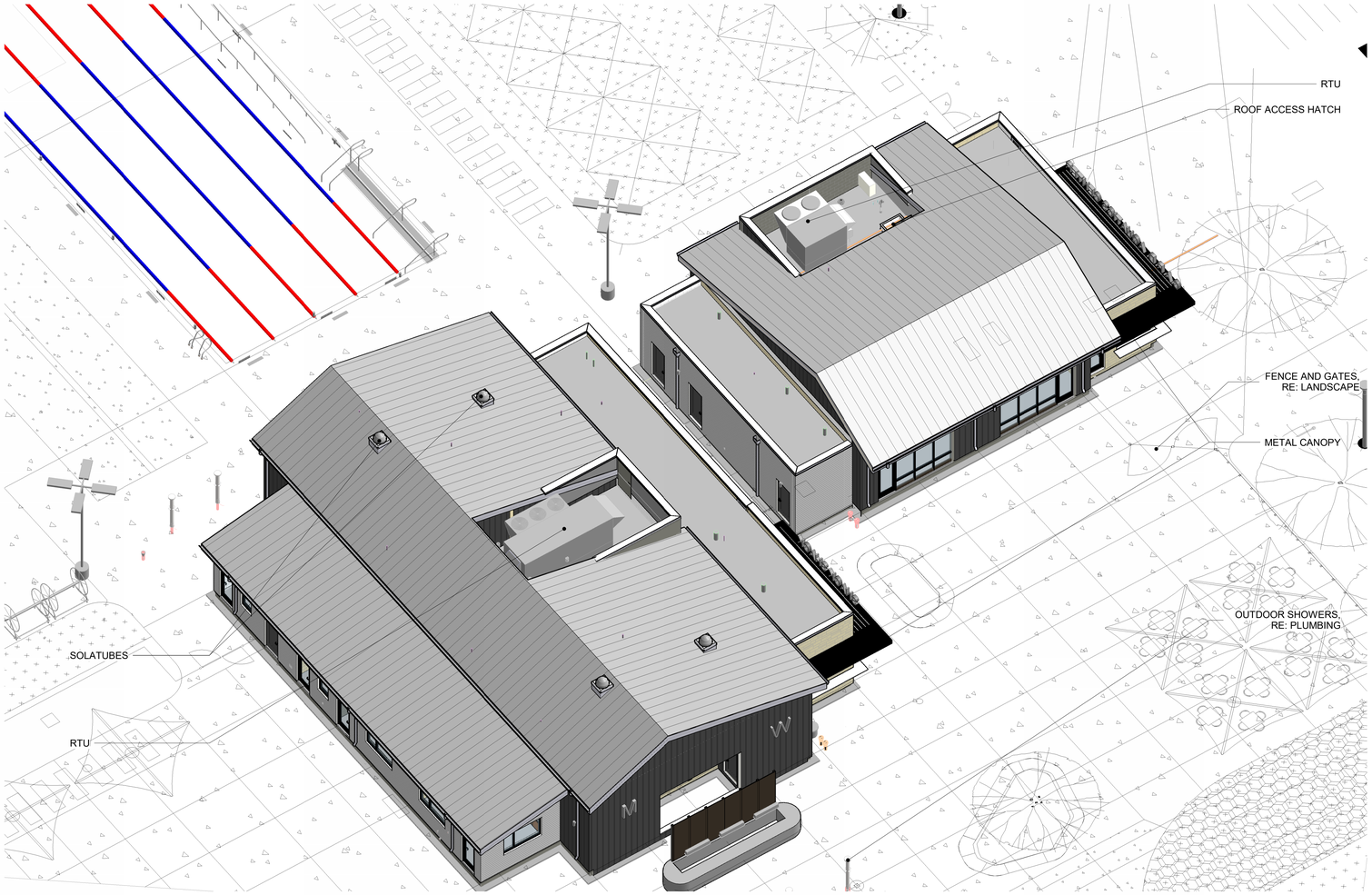

1 A006 3D - ISOMETRIC ROOF
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Revision Schedule

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Key Plan

CHICO AQUATIC AND RECREATION FACILITY
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Project Number	23030
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3D VIEWS - ISO ROOF

A006

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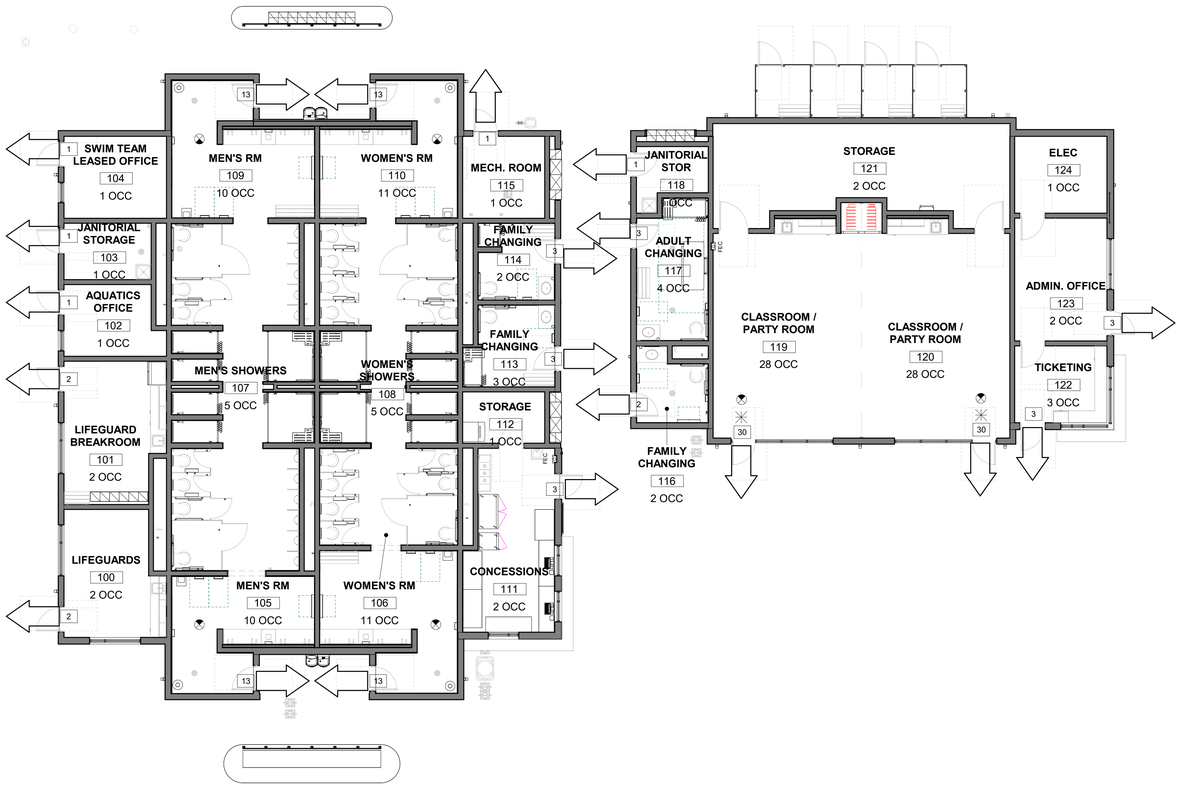


1 A010 CODE PLAN FACILITIES & BATH HOUSE

1/8" = 1'-0"

0 4" 8" 16"

PROJECT TRUE

CARD OUTDOOR AQUATIC FACILITY
SCOPE OF WORK DESCRIPTION: THIS IS A NEW OUTDOOR AQUATICS FACILITY WITH A BATH HOUSE, CONCESSIONS, TICKETING ADMINISTRATION SPACES, RESTROOMS, LOCKER ROOMS AND A ROOM THAT FUNCTIONS AS CLASSROOMS AND PARTY ROOMS. THERE IS ALSO A POOL MECHANICAL BUILDING TO SUPPORT THE THREE POOLS.

Project Location: CHICO, CALIFORNIA
Date: **12-12-24**
By: BRS Architecture

CODES OF JURISDICTION:
- 2022 California Building Code
- 2022 California Structural Code
- 2022 California Electric Code
- 2022 California Plumbing Code
- 2022 California Mechanical Code
- 2022 California Fire Code
- 2022 California Energy Code
- 2022 California Green Building Standards Code

CITY OF CHICO ZONING
Zoning: CC (Community Commercial)
Zoning Overlay: ACOD
Setbacks: Front Yard - None
Side Yard - None (parcel does not abut R District)
Rear Yard - None (parcel does not abut R District)
Max Building Height: 57'-0"

PROJECT DATA SUMMARY

Construction Type: VB - Facilities Building and Bath House

Number of Stories: 1

CHAPTER 3 - USE AND OCCUPANCY CLASSIFICATION
Occupancy Types: A-3

CHAPTER 5 - GENERAL BUILDING HEIGHTS AND AREAS
Allowable Building Height (Table 504.3) : 40' (A Occupancy, non-sprinklered, Type VB)
Allowable Number of Stories (Table 504.4) : 1 (A-3 Occupancy, non-sprinklered, Type VB)
Allowable Building Area (Table 506.2) : 6,000 SF (A-3 Occupancy, non-sprinklered, Type VB)
Section 506.2.1 Allowable Area Modification: Aa=At+(NSxIf)
Aa=6,000+(6000x0.75)
Aa=10,500 SF

CHAPTER 6 - TYPES OF CONSTRUCTION
Table 601 Fire Resistance Rating Requirements - Type VB
Primary structural frame: 0 hr
Bearing Walls -Exterior: 0 hr
Bearing walls - Interior: 0 hr
Exterior Nonbearing Walls: 0 hr (Table 705.5)
Interior Nonbearing Walls: 0 hr
Floor Construction and associated secondary members: 0 hr
Roof Construction and associated secondary members: 0 hr

Gross Square Feet:
Building #1 - Bath House & Facilities Building
Bath House: 4,531 SF
Admin, Classroom/Party Room: 2,435 SF
Total : 6,966 GSF

Distance Between Bathhouse and Facilities Building to Mechanical Building : 209' - 2"

Automatic Sprinkler Systems: No
Fire Alarm & Detection: No

CODE LEGEND

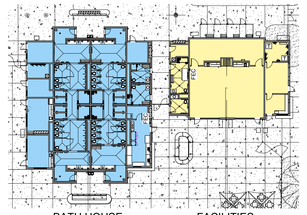
- FIRE DOOR PROTECTION RATINGS PER TABLE 716.5
- 1 HOUR RATED FIRE BARRIER
- 12' — TRAVEL DISTANCE
- 23 — EXITING LOAD AND DIRECTION OF TRAVEL
- 23 — EXIT DOOR LOAD
- VESTIBULE / 101 / Load OCC — ROOM NAME / ROOM NUMBER / OCCUPANT LOAD
- PANIC HARDWARE
- ALARMED PANIC HARDWARE
- FEC — FIRE EXTINGUISHER
- EXIT LIGHT (SHADED QUADRANT INDICATES FACE(S) OF FIXTURE)

OCCUPANT LOAD FACTOR
Section 1004, Table 1004.5 Maximum floor area allowances per occupant (see Code Plans for occupancy, total occupants and egress calculations)

Assembly Spaces	unconcentrated (tables and chairs) 15 net
Business Areas	150 gross
Locker Rooms	50 gross
Educational Classroom	20 net
Accessory Storage/ Mechanical	300 gross
Kitchens (Concessions)	200 gross

OCCUPANT LOAD CALCULATIONS - BATH HOUSE & FACILITIES

Room Number	Room Name	Area	Occupant Load Factor (per Table 1004.1.2)	Load	Function of Space (per Table 1004.1.2)
100	LIFEGUARDS	203 SF	150	2	BUSINESS AREAS
101	LIFEGUARD BREAKROOM	229 SF	150	2	BUSINESS AREAS
102	AQUATICS OFFICE	113 SF	150	1	BUSINESS AREAS
103	JANITORIAL STORAGE	84 SF	300	1	MECHANICAL
104	SWIM TEAM LEASED OFFICE	143 SF	150	1	BUSINESS AREAS
105	MEN'S RM	494 SF	50	10	LOCKER ROOMS
106	WOMEN'S RM	508 SF	50	11	LOCKER ROOMS
107	MEN'S SHOWERS	245 SF	50	5	LOCKER ROOMS
108	WOMEN'S SHOWERS	235 SF	50	5	LOCKER ROOMS
109	MEN'S RM	500 SF	50	10	LOCKER ROOMS
110	WOMEN'S RM	508 SF	50	11	LOCKER ROOMS
111	CONCESSIONS	261 SF	200	2	CONCESSIONS
112	STORAGE	72 SF	300	1	STORAGE
113	FAMILY CHANGING	115 SF	50	3	LOCKER ROOMS
114	FAMILY CHANGING	96 SF	50	2	LOCKER ROOMS
115	MECH. ROOM	114 SF	300	1	MECHANICAL
116	FAMILY CHANGING	79 SF	50	2	LOCKER ROOMS
117	ADULT CHANGING	163 SF	50	4	LOCKER ROOMS
118	JANITORIAL STOR	64 SF	300	1	STORAGE
119	CLASSROOM / PARTY ROOM	543 SF	20	28	EDUCATION CLASSROOM
120	CLASSROOM / PARTY ROOM	544 SF	20	28	EDUCATION CLASSROOM
121	STORAGE	463 SF	300	2	STORAGE
122	TICKETING	121 SF	50	3	BUSINESS AREAS
123	ADMIN. OFFICE	193 SF	150	2	BUSINESS AREAS
124	ELEC	121 SF	300	1	MECHANICAL
				139	



BATH HOUSE 4531 SF
FACILITIES 2435 SF

FIRST FLOOR GROSS AREA

LEISURE AND COMPETITION SWIM (COMBINED - NO COMPETITION/USED FOR ALL RECREATION)
CODE REVIEW

CALIFORNIA POOL CODE PLUMBING FIXTURE REQUIREMENTS

Review Based on: 3115B / 3116B of California Building Code

		Area	Load	
	All Water	21,974	1,466	1 person per 15 sq.ft. of pool water surface area
	Building Occupants - Admin & Ticketing		6	Assumed
	Building Occupants - Party Rooms		58	Assumed
	Lifeguard Break Room and Office		1	
	Concessions		2	
	Spectator Seating			best practices
	Mechanical Building		15	
	Total Area & Swimmer Load		**1,553**	

	People		WCs required	WCs provided	Urinal required	Urinal provided	Lavatory required	Lavatory provided	Showers required	Showers provided	
	Male	776	10.4	**7**	10.4	**11**	9.7	**8**	16	**6**	1 bather for every 15 sq. ft of pool water surface
	Female	776	12.9	**14**			9.7	**8**	16	**6**	1 water closet and 1 urinal for each 75 men
	Unisex - Family Changing Cabanas			**4**				**4**		**3**	1 water closet for each 60 women
	Deck Mounted Showers (5 poles with 4 heads each)									**20**	1 lavatory for every 80 bathers (either sex)
	Total	**1,553**	23.3	**25**	10.4	**11**	19.4	**20**	31.1	**35**	1 shower for every 50 bathers (either sex)

1 drinking fountain for the first 250 bathers; one additional drinking fountain for every 200 bathers thereafter

CHAPTER 29 - Plumbing Systems

2902.1 Minimum Number of Fixtures
Plumbing fixtures shall be provided for the type of occupancy and in the minimum number shown in Table 2902.1 Refer table of the project plumbing fixtures counts

2902.3.3.3 Location of toilet facilities shall not exceed a distance of 500 ft. The distance between the Mechanical Building and Bath house is 415' 0".

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	100% CDS
Date	01.24.2025

CODE PLAN - BATH HOUSE AND FACILITES

A010

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plot to .pdf = color
for paper plots, use BLACK and WHITE.

CARD OUTDOOR AQUATIC FACILITY
SCOPE OF WORK DESCRIPTION: THIS IS A NEW OUTDOOR AQUATICS FACILITY WITH A POOL MECHANICAL BUILDING TO SIPPORT THE THREE POOLS

Project Location: CHICO, CALIFORNIA
Date: **12-12-24**
By: BRS Architecture

CODES OF JURISDICTION:
· 2022 California Building Code
· 2022 California Structural Code
· 2022 California Electric Code
· 2022 California Plumbing Code
· 2022 California Mechanical Code
· 2022 California Fire Code
· 2022 California Energy Code
· 2022 California Green Building Standards Code

CITY OF CHICO ZONING
Zoning: CC (Community Commercial)
Zoning Overlay: AOD
Setbacks: Front Yard - None
Side Yard - None (parcel does not abut R District)
Rear Yard - None (parcel does not abut R District)
Max Building Height: 57'-0"

PROJECT DATA SUMMARY

Construction Type: VB - Mechanical Building

Number of Stories: 1

CHAPTER 3 - USE AND OCCUPANCY CLASSIFICATION
Occupancy Types: U

CHAPTER 5 - GENERAL BUILDING HEIGHTS AND AREAS
Allowable Building Height (Table 504.3) : 40' (A Occupancy, non-sprinklered, Type VB)
Allowable Number of Stories (Table 504.4) : 1 (A-3 Occupancy, non-sprinklered, Type VB)
Allowable Building Area (Table 506.2) : 6,000 SF (A-3 Occupancy, non-sprinklered, Type VB)
Section 506.2.1 Allowable Area Modification: Aa=At+(NSxIf)
Aa=6,000+(6000x0.75)
Aa=10,500 SF

CHAPTER 6 - TYPES OF CONSTRUCTION
Table 601 Fire Resistance Rating Requirements - Type VB
Primary structural frame: 0 hr
Bearing Walls -Exterior: 0 hr
Bearing walls - Interior: 0 hr
Exterior Nonbearing Walls: 0 hr (Table 705.5)
Interior Nonbearing Walls: 0 hr
Floor Construction and associated secondary members: 0 hr
Roof Construction and associated secondary members: 0 hr

Gross Square Feet:
Building #2 - Mechanical Building
Mechanical Bldg: 3,279 SF
Total : 3,279 GSF

Distance Between Bathhouse and Facilities Building to Mechanical Building : 209' - 2"

Automatic Sprinkler Systems: No
Fire Alarm & Detection: No

CHAPTER 29 - PLUMBING SYSTEMS
2902.3.3 Location of toilet facilities shall not exceed a distance of 500 ft. The distance between the Mechanical Building and Bath house is 415' 0".

CODE LEGEND

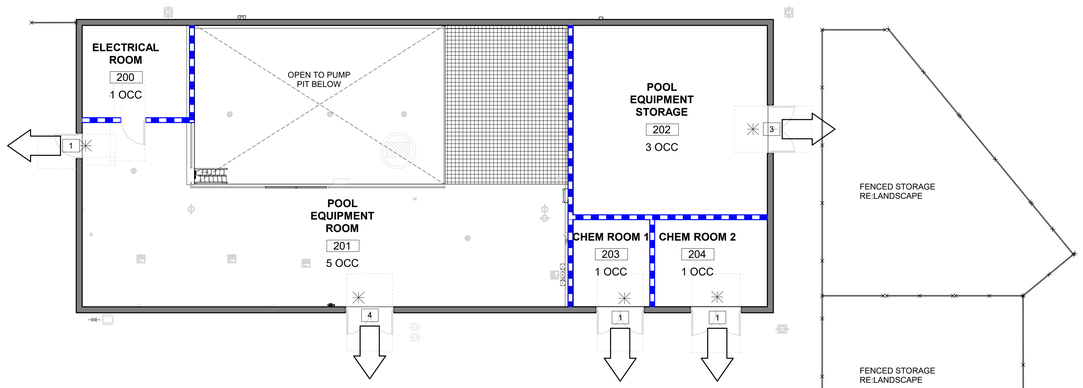
- FIRE DOOR PROTECTION RATINGS PER TABLE 716.5
- 1 HOUR RATED FIRE BARRIER
- 12' — TRAVEL DISTANCE
- 23 — EXITING LOAD AND DIRECTION OF TRAVEL
- 23 — EXIT DOOR LOAD
- VESTIBULE — ROOM NAME
- 101 — ROOM NUMBER
- Load OCC — OCCUPANT LOAD
- PANIC HARDWARE
- ALARMED PANIC HARDWARE
- FEC — FIRE EXTINGUISHER
- EXIT LIGHT (SHADED QUADRANT INDICATES FACE(S) OF FIXTURE)

OCCUPANT LOAD FACTOR
Section 1004, Table 1004.5 Maximum floor area allowances per occupant (see Code Plans for occupancy, total occupants and egress calculations)

Assembly Spaces	unconcentrated (tables and chairs) 15 net
Business Areas	150 gross
Locker Rooms	50 gross
Educational Classroom	20 net
Accessory Storage/ Mechanical	300 gross
Kitchens (Concessions)	200 gross

OCCUPANT LOAD CALCULATIONS - MECHANICAL

Room Number	Room Name	Area	Occupant Load Factor (per Table 1004.1.2)	Load	Function of Space (per Table 1004.1.2)
200	ELECTRICAL ROOM	168 SF	300	1	MECHANICAL
201	POOL EQUIPMENT ROOM	1462 SF	300	5	MECHANICAL
202	POOL EQUIPMENT STORAGE	626 SF	300	3	STORAGE
203	CHEM ROOM 1	114 SF	300	1	MECHANICAL
204	CHEM ROOM 2	167 SF	300	1	MECHANICAL
205	PUMP PIT	988 SF	300	4	MECHANICAL
				15	



1 / A011 FIRST FLOOR CODE PLAN - MECHANICAL ROOM
1/8" = 1'-0"
0 4' 8' 16'
PROJECT TRUE

MECHANICAL
3279 SF

FIRST FLOOR GROSS AREA - MECHANICAL

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Key Plan

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CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	100% CDS
Date	01.24.2025

CODE PLAN - MECHANICAL BUILDING

A011

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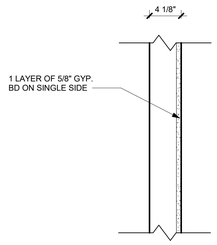
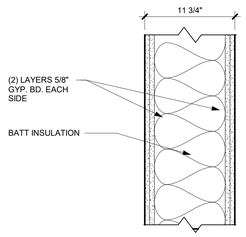
WALL TYPES

W1043 4" WD STUD FURRING WALL

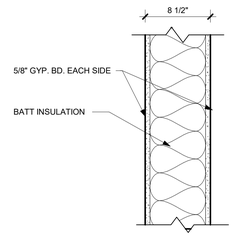


W1012 10" WD STUD WALL w/ INSULATION (STC 52)

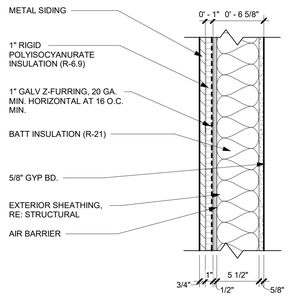


*EXTEND ALL GYP. BD. LAYERS & FRAMING TO UNDERSIDE OF STRUCTURE ABOVE FOR ACOUSTICS

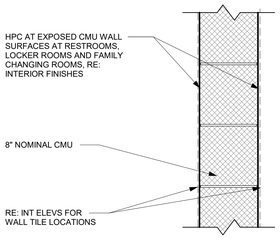
W1081 8" WD STUD WALL w/ INSULATION



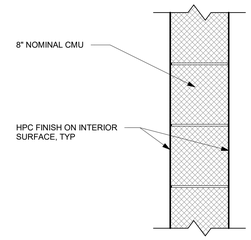
W1066 6" WD STUD WALL w/ METAL PANEL - **(RE: WALL SECTIONS)**



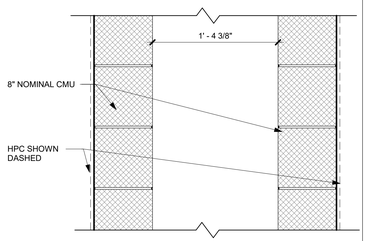
W2080 8" MASONRY WALL



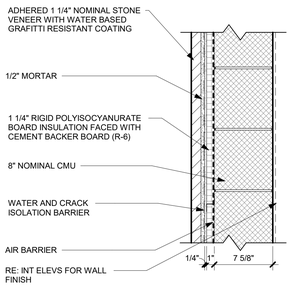
W2080r 8" MASONRY WALL - 1HR RATED / UL No. U935 **(AT CHEMICAL ROOMS)**



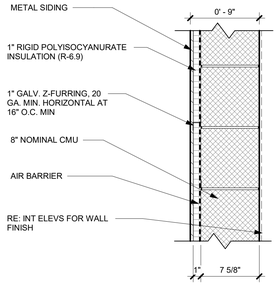
W2081 PLUMBING CHASE WALL (STC 65+)



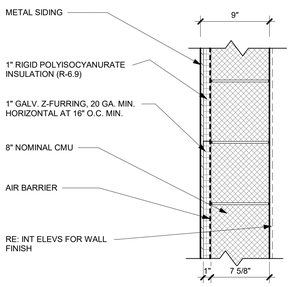
W2082 8" MASONRY WALL w/ STONE VENEER



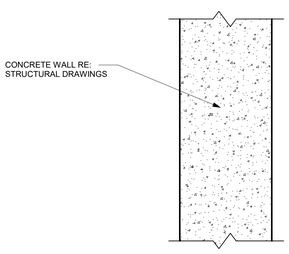
W2086 8" MASONRY WALL w/ VERTICAL METAL PANEL - **(RE: EXT ELEVS)**



W2088 8" MASONRY WALL w/ HORIZONTAL METAL PANEL - **(RE: EXT ELEVS)**



W3120 12" CONCRETE WALL **(AT SURGE TANKS)**

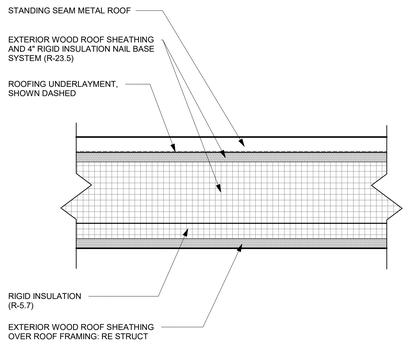


GENERAL WALL TYPE NOTES:

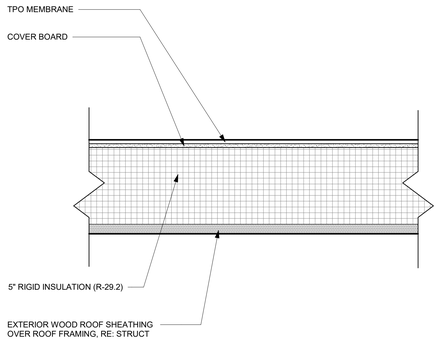
1. WALL SECTIONS ARE CUT IN SECTION VIEW.
2. ALL CMU TO RECEIVE BLOCK FILLER PRIOR TO PAINTING.
   -CMU IN WET AREAS TO RECEIVE CEMENTITIOUS BLOCK FILLER PRIOR TO PAINTING.
3. ALL INTERIOR EXPOSED CMU TO HAVE BULL NOSED CORNERS.
4. SOUND SEAL HEAD, SILL AND ALL PENETRATIONS IN ACOUSTICAL WALLS WITH STC RATINGS OF 45 AND MORE.
5. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL MASONRY & CONCRETE INFORMATION.

ROOF TYPES

R1 STANDING SEAM ROOF ON WOOD DECKING

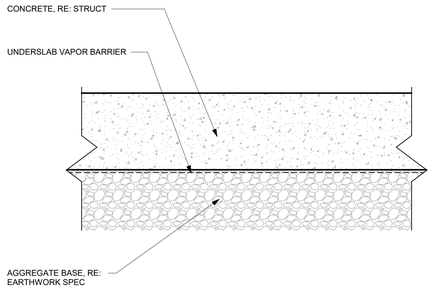


R2 THERMOPLASTIC POLYOLEFIN ON WOOD DECKING

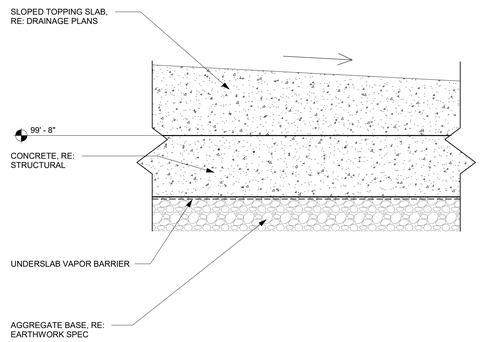


FLOOR TYPES

F1 CONCRETE SLAB ON GRADE



F2 CONGRETE SLAB ON GRADE w/ SLOPED TOPPING SLAB



1 A020 WALL TYPES
1 1/2" = 1'-0"

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
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Date	01.24.2025

WALL TYPES, ROOF TYPES, FLOOR TYPES

A020

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1/22/2025 3:57:22 PM Autodesk Docs://Chico CA Aquatics Center/CARD Aquatic Facility - 2023.010_R24.rvt

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...plot to .pdf = color
...ly paper size, use these squares to check for accurate reproduction.

PARKING, RE: LANDSCAPE
TREES AND SHRUBS, RE: LANDSCAPE
PARKING ISLANDS, RE: LANDSCAPE
PROPERTY LINE
TRANSFORMER W/ BOLLARDS, RE: ELEC
ACCESSIBLE PARKING
GAS METER, RE: PLUMB
BATH HOUSE
ESPLANADE
POOL B, PROGRAMING
POOL RE: AQUATICS
GATE, RE: LANDSCAPE
DECK SHOWERS
POOL A, 50 METER
POOL, RE: AQUATICS
MECHANICAL BUILDING
EASEMENT SHOWN
DASHED, RE: LANDSCAPE
GAS METER, RE: PLUMB
TRANSFORMER W/ BOLLARDS, RE: ELEC
FFE:179.00=100'-5 1/4"
DISTANCE BETWEEN BUILDING
TRAVEL DISTANCE = 415'-0"
209' - 2"
7
A800
Sim
AQUATIC SLIDES, RE: AQUATICS
OUTDOOR ENCLOSURE, RE: LANDSCAPE
OUTDOOR STORAGE, RE: LANDSCAPE
TRASH ENCLOSURE
FFE:177.56=100'-0"
FFE:177.56=100'-0"
FUTURE SOLAR AREA 1944 SQFT IN TOTAL, ON FUTURE PARKING LOT SHADE STRUCTURES PER CODE 110.10.b.B RE: ELECTICAL
COMPETITION GATE ENTRY
CANOPY MOUNTED SIGNAGE
FACILITIES BUILDING
PRE-FABRICATED LOUVERED CANOPY
ENTRY GATE, RE: LANDSCAPE
SIDEWALK, RE: LANDSCAPE
CANOPY MOUNTED SIGNAGE
PRE-FARICATED LOUVERED CANOPY
CONCESSIONS
DECK SHOWERS
FENCE, RE: LANDSCAPE
ARTIFICIAL TURF, RE: LANDSCAPE
POOL C LEISURE POOL RE: AQUATICS
PROPERTY LINE
ENTRY DRIVE, RE: LANDSCAPE
ARTIFICIAL TURF, RE: LANDSCAPE
GARNER LANE

1 A100 ARCHITECTURAL SITE PLAN
1" = 40'-0"
0 4' 8' 16'
PROJECT TRUE

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ARCHITECTURAL SITE PLAN

A100

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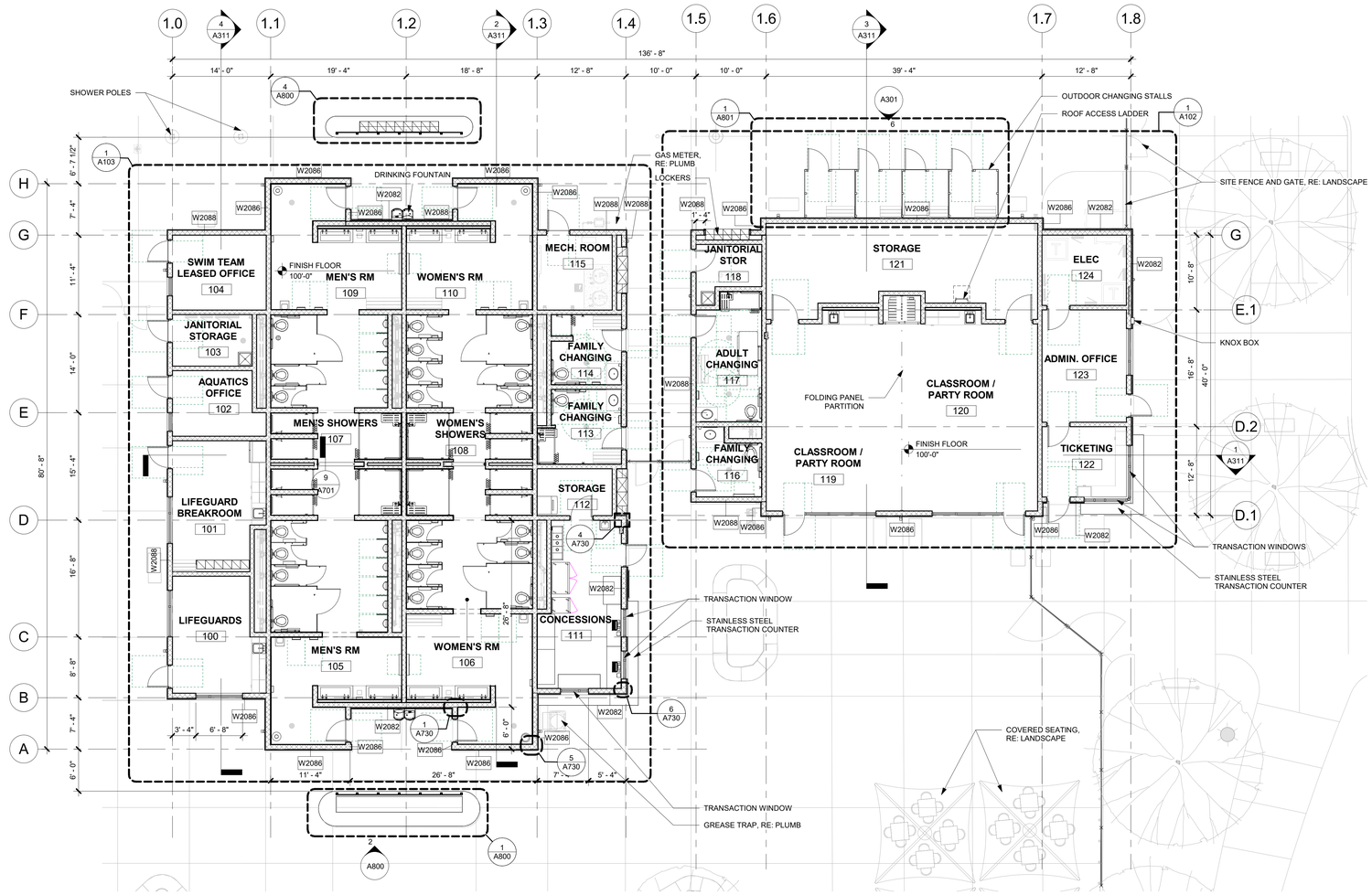
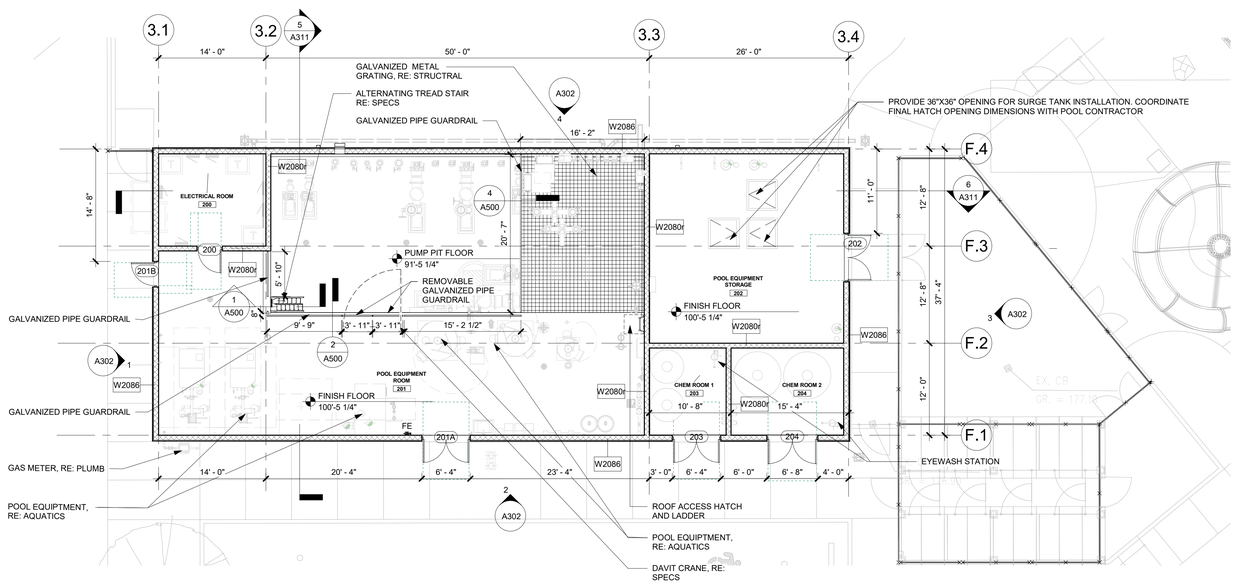


1 A101 FLOOR PLAN FACILITIES & BATH HOUSE
1/8" = 1'-0"

0 4' 8' 16'

PROJECT TRUE



2 A101 MECHANICAL BUILDING PLAN
1/8" = 1'-0"

0 4' 8' 16'

PROJECT TRUE

GENERAL PLAN NOTES

1. ALL INTERIOR CMU WALLS ARE W2080 UNLESS NOTED OTHERWISE
2. REFER TO WALL TYPES LISTED ON A020.
3. REFER TO INTERIOR ELEVATIONS FOR LOCATIONS OF TILE ON WALLS, PAINTS, LOCKERS, AND PARTITIONS
4. ADA CLEARANCES AT DOORS SHOWN DASHED
5. REFER TO A102 & A103 FOR ADDITIONAL INFORMATION

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CHICO AREA RECREATION & PARK DISTRICT

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Date	01.24.2025

OVERALL FLOOR PLAN

A101

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IF NOT 1" LONG, ADJUST SCALE ACCORDINGLY
plot to .pdf = color
to paper size, use scale
THE SQUARES ABOVE ARE COLOR WITH BLACK AND WHITE LETTERS
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IF NOT, SCALE ACCORDINGLY

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plot to .pdf in color
for paper size, use full size
when plotting, check "scale to fit"

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GENERAL PLAN NOTES

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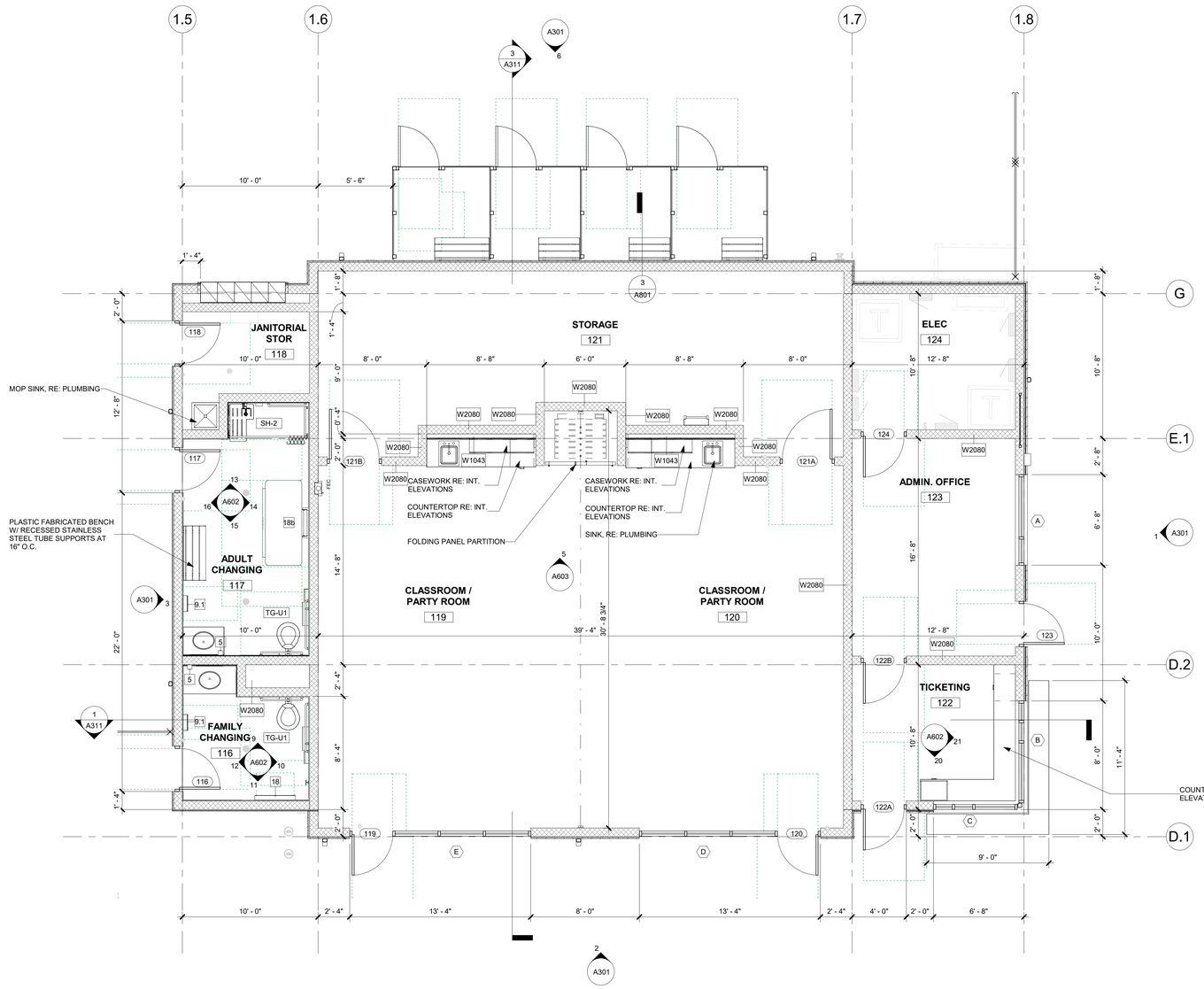
2. REFER TO WALL TYPES LISTED ON A020.
3. REFER TO INTERIOR ELEVATIONS FOR LOCATIONS OF TILE ON WALLS, PAINTS, AND LOCKERS, AND PARTITIONS
4. ADA CLEARANCES AT DOORS SHOWN DASHED



1 A102 FACILITIES BUILDING - ENLARGED PLAN

1/4" = 1'-0"

0 4" 8" 16"

PROJECT TRUE

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CHICO AREA RECREATION & PARK DISTRICT

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ENLARGED FACILITIES PLAN

A102

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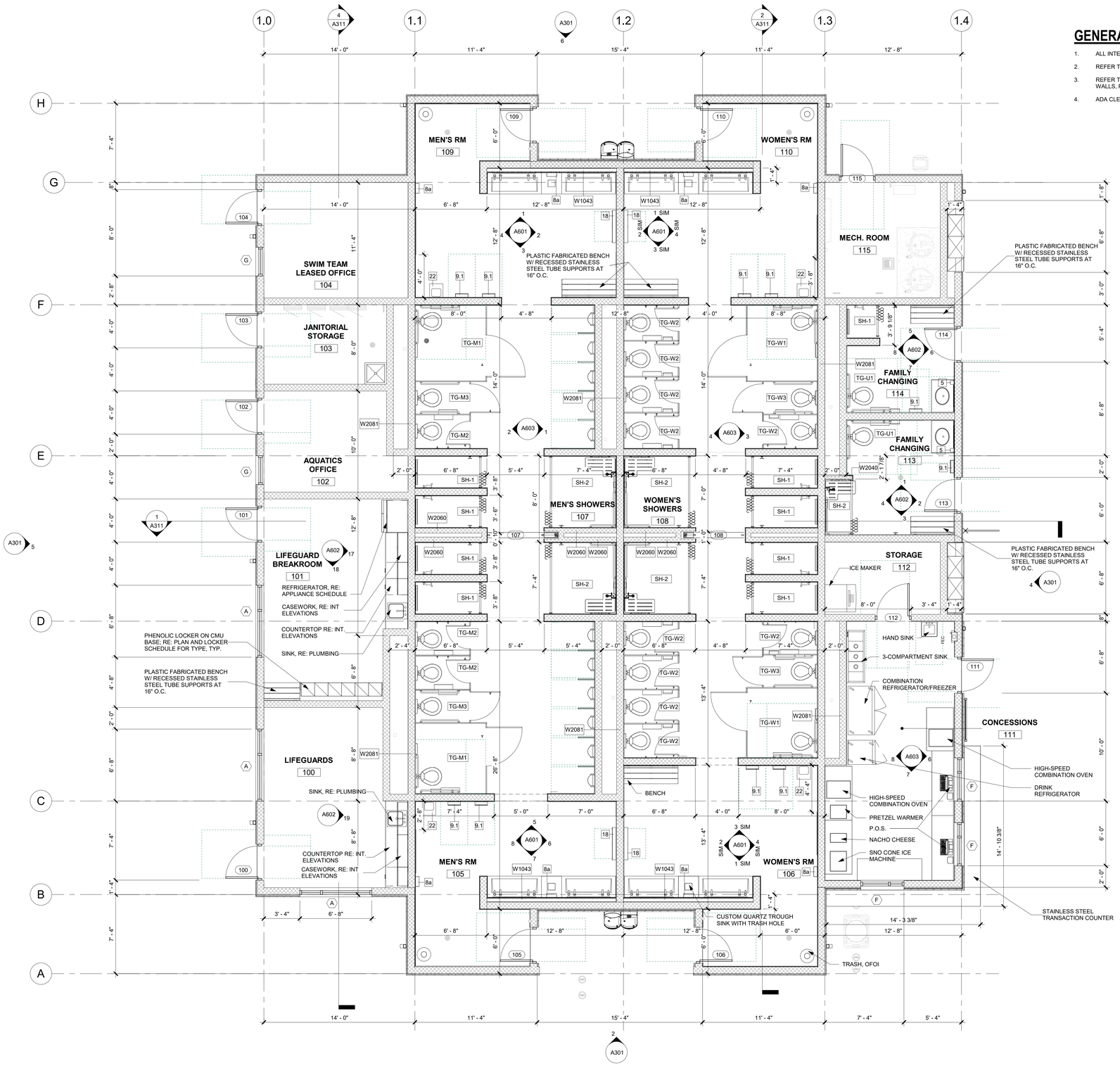

GENERAL PLAN NOTES

1. ALL INTERIOR CMU WALLS ARE W2080 UNLESS NOTED OTHERWISE
2. REFER TO WALL TYPES LISTED ON A020.
3. REFER TO INTERIOR ELEVATIONS FOR LOCATIONS OF TILE ON WALLS, PAINTS, AND LOCKERS, AND PARTITIONS
4. ADA CLEARANCES AT DOORS SHOWN DASHED

1 A103 BATH HOUSE - ENLARGED PLAN
1/4" = 1'-0"

0 4" 8" 1'-6"

PROJECT TRUE

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ENLARGED BATH HOUSE PLAN

A103

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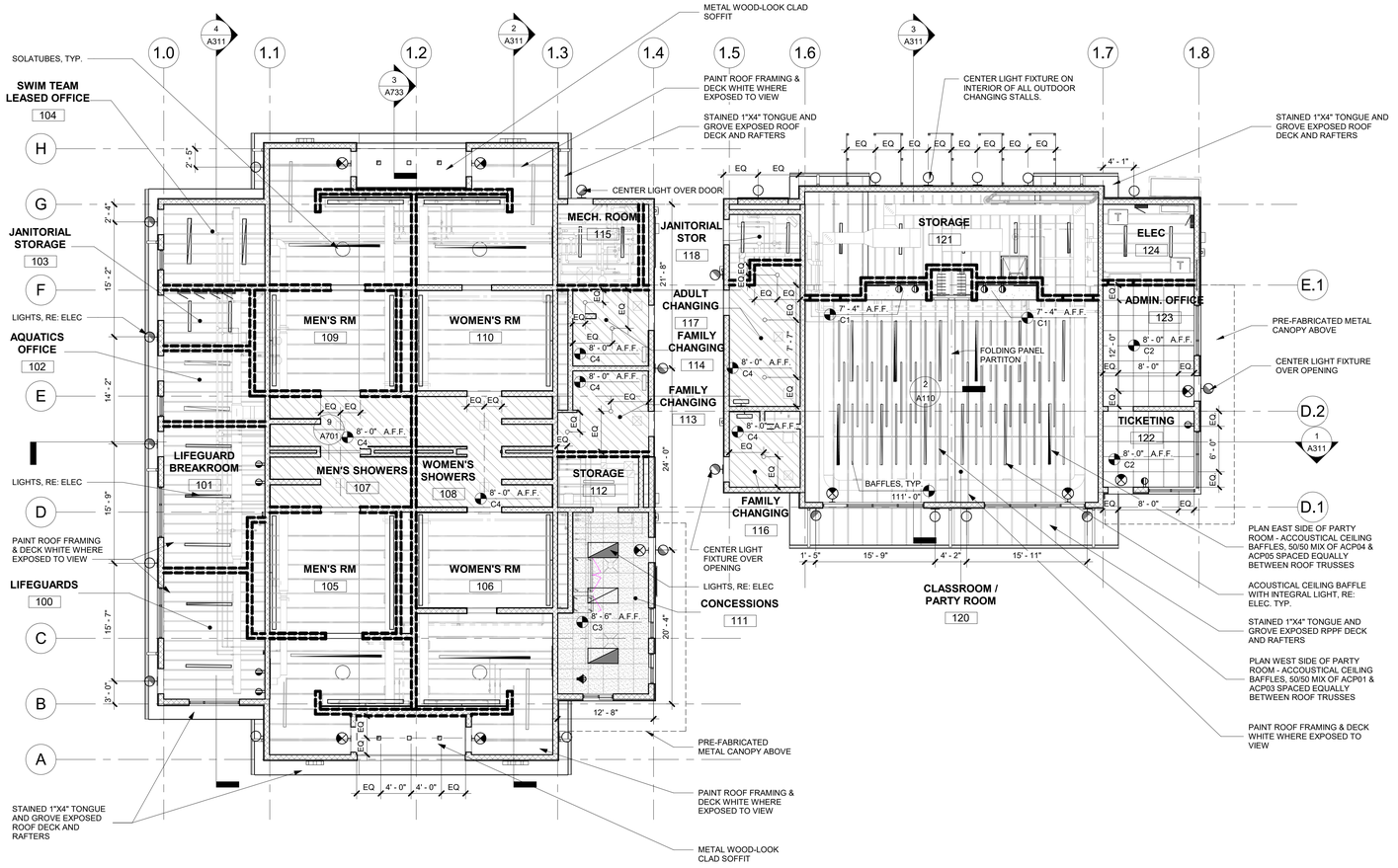
IF NOT, adjust accordingly
THIS SQUARES ABOVE ARE COLOR WITH BLACK AND WHITE LETTERS, WHEN PLOTTED CORRECTLY



6 A110 MAIN BUILDING RCP
1/8" = 1'-0"

0 4' 8' 16'

PROJECT TRUE

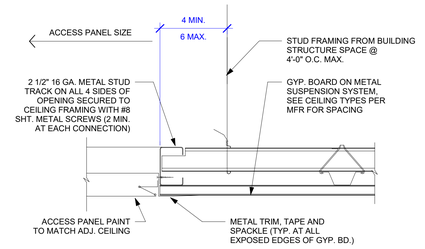
RCP GENERAL NOTES

1. ALL CEILING ELEVATIONS LISTED AS A.F.F. DIMENSIONS. SEE INTERIOR ELEVATIONS FOR CLARIFICATION IF NECESSARY.
2. REFER TO WALL TYPES LISTED ON A020. THOSE WALLS, DESIGNATED ON PLANS AND WITHIN DETAILS MAY BE INTENDED TO CONTAIN SOME SOUND, WATER VAPOR, SMOKE AND /OR FIRE ATTENUATION.
3. RE: FOR ACOUSTIC PANEL CEILING SEISMIC BRACING DETAILS.
4. ALL WALLS SHALL TERMINATE 6" ABOVE CEILING ELEVATION UNLESS OTHERWISE NOTED.

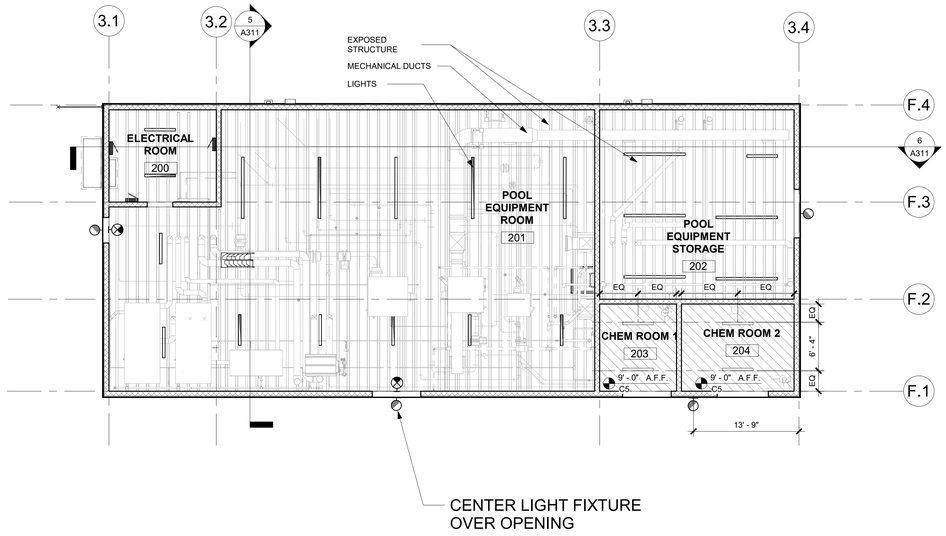
RCP LEGEND

- WALL EXTENDS TO B.O. DECK ABOVE
- **C1**: GYP. BD. CEILING
- **C2**: 2X2 ACT CEILING
- **C3**: VINYL- FACED 2X2 SAT SYSTEM
- **C4**: ACRYLIC POLYMER COATING SYSTEM
- EXPOSED STRUCTURE

SEE MECHANICAL AND ELECTRICAL LEGENDS FOR ADDITIONAL SYMBOLS



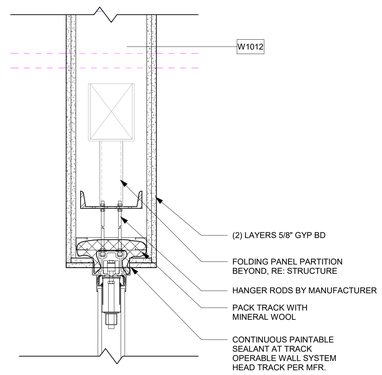
4 A110 ACCESS PANEL @ GYP-BOARD CEILING
3" = 1'-0"



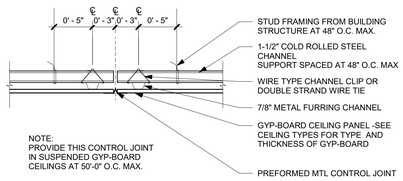
5 A110 MECHANICAL BUILDING
1/8" = 1'-0"

0 4' 8' 16'

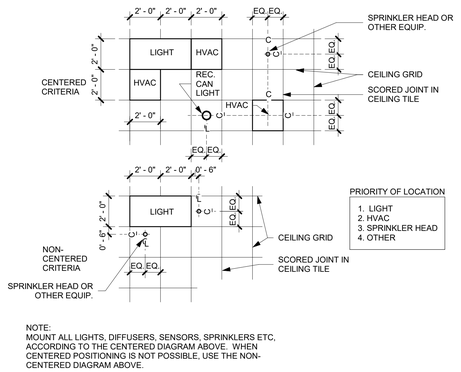
PROJECT TRUE



2 A110 FOLDING PANEL PARTITION
1 1/2" = 1'-0"



3 A110 GYP-BOARD CEILING CONTROL JOINT
1 1/2" = 1'-0"



1 A110 LOCATION CRITERIA
1/4" = 1'-0"

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1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	100% CDS
Date	01.24.2025

REFLECTED CEILING PLAN

A110

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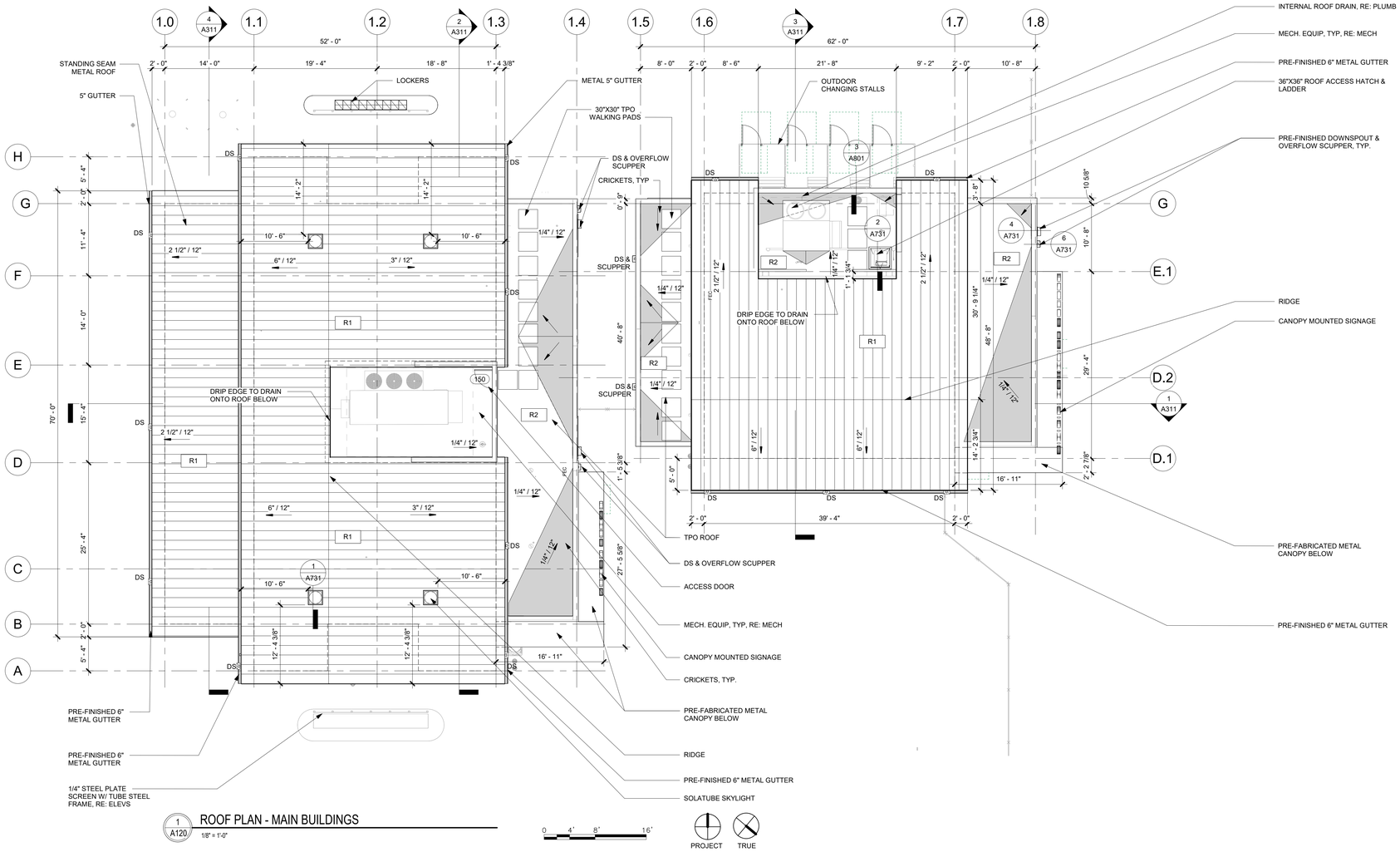
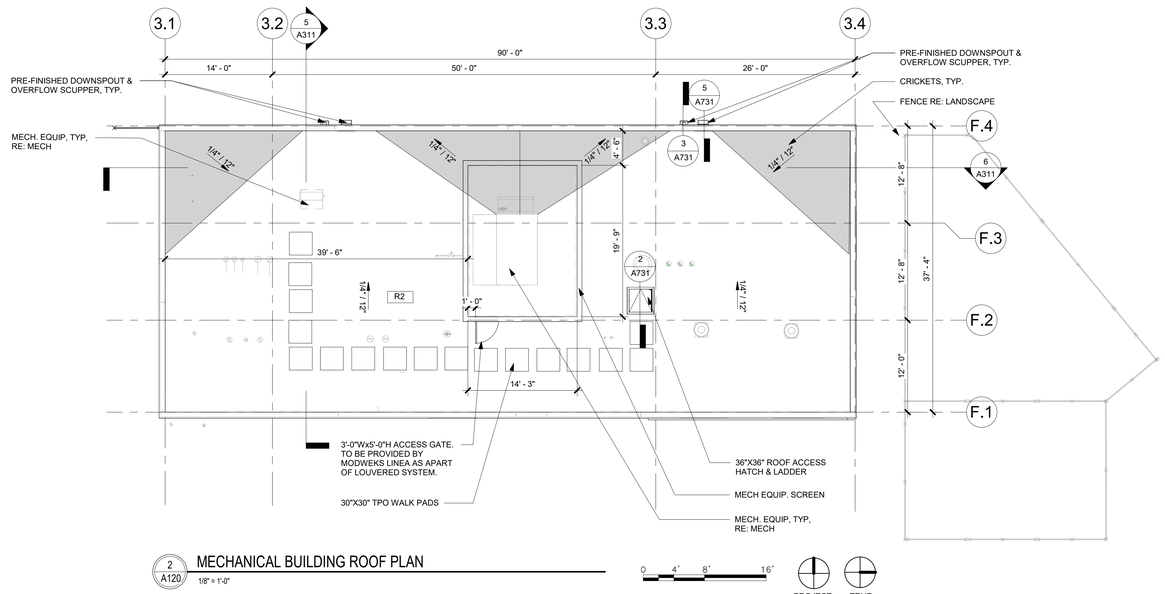


1 A120 ROOF PLAN - MAIN BUILDINGS

1/8" = 1'-0"



2 A120 MECHANICAL BUILDING ROOF PLAN

1/8" = 1'-0"

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BARKER RINKER SEACAT ARCHITECTURE

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ROOF PLAN

A120

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plot to .pdf in color
to paper size, use 24x36
to scale indicated on drawings

1/22/2025 3:57:50 PM Autodesk Docs://Chico CA Aquatics Center/CARD Aquatic Facility - 2023.010_R24.rvt

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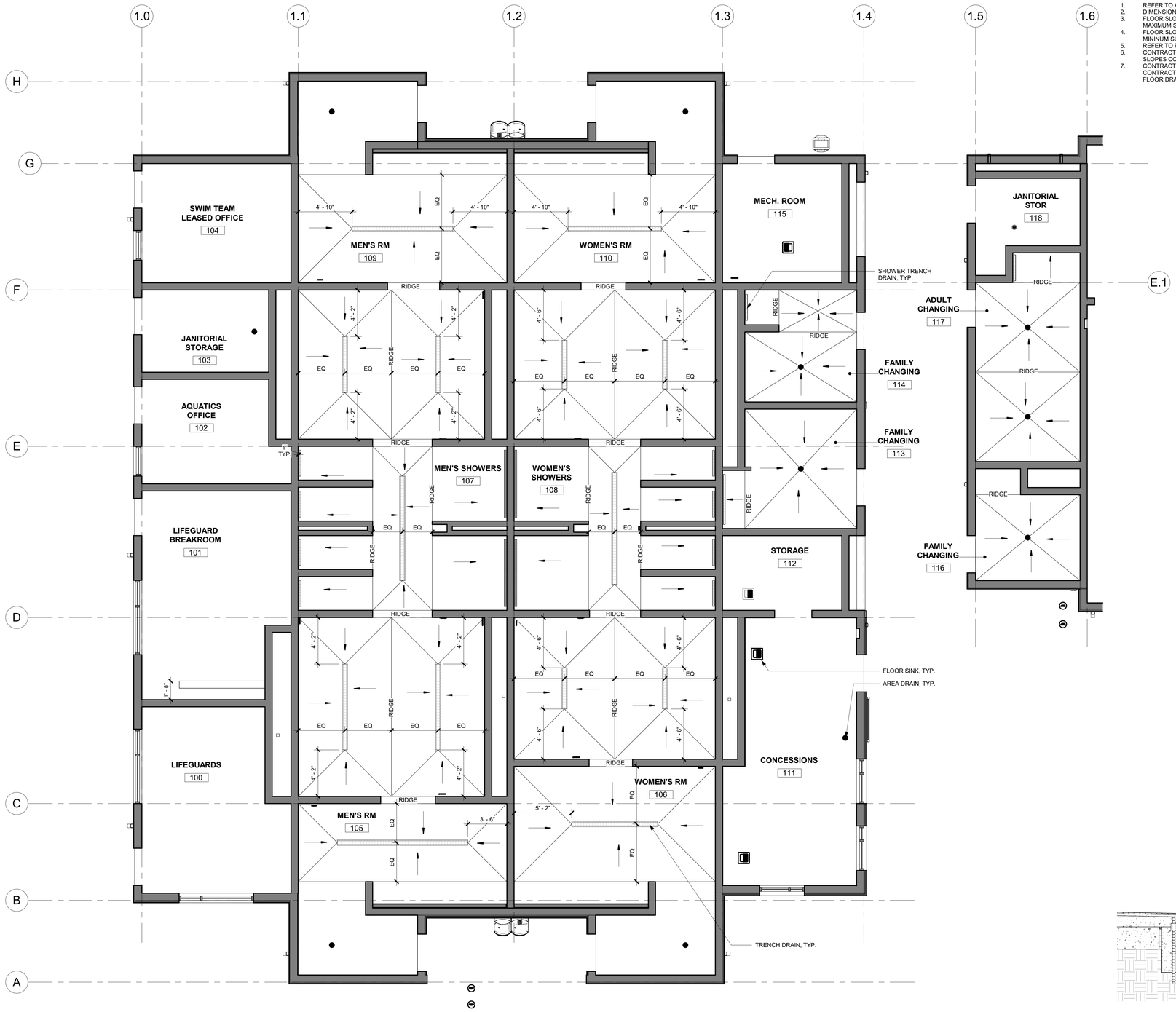
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE ON ORIGINAL DRAWING

IF NOT 1" LONG, ADJUST SCALE ACCORDINGLY

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, WHEN PLOTTED CORRECTLY

DRAINAGE PLAN GENERAL NOTES:

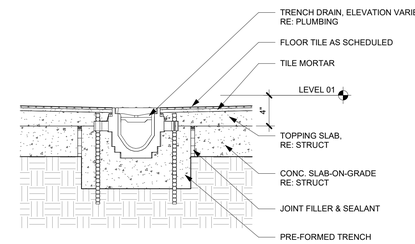
1. REFER TO AREA PLANS AND ENLARGED PLANS FOR ADDITIONAL INFORMATION IN THIS AREA
2. DIMENSIONS ARE TO FACE OF CMU, GRIDLINES AND CENTER LINES OF AREA DRAINS AND TRENCH DRAINS
3. FLOOR SLOPES TO BE MAXIMUM 1:48; INFORM ARCHITECT IF INSTALLATION DOES NOT ALLOW FOR THIS MAXIMUM SLOPE WHERE SLOPES ARE INDICATED
4. FLOOR SLOPES TO BE MINIMUM 1:96; INFORM ARCHITECT IF INSTALLATION DOES NOT ALLOW FOR THIS MINIMUM SLOPE WHERE SLOPES ARE INDICATED
5. REFER TO PLUMBING DRAWINGS AND SPECIFICATIONS FOR DRAIN TYPES
6. CONTRACTOR TO PROVIDE SHOP DRAWINGS INDICATING DRAIN LOCATIONS, DRAIN HEIGHTS AND FLOOR SLOPES COMPLYING WITH NOTES 4 AND 5 ABOVE, FOR ALL LOCKER ROOMS.
7. CONTRACTOR TO SCHEDULE FOR A PRE-CONSTRUCTION MEETING BETWEEN ALL APPROPRIATE SUB-CONTRACTORS, ARCHITECT AND ENGINEERS FOR SHOP DRAWING REVIEW PRIOR TO INSTALLATION OF FLOOR DRAINS AND ASSOCIATED COMPONENTS



1 A130 DRAINAGE PLAN - BATH HOUSE
1/4" = 1'-0"

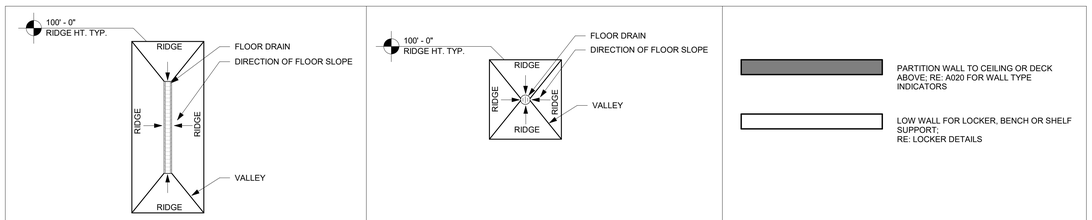
0 4" 8" 16"

PROJECT TRUE



2 A130 PORCELAIN TILE TO TRENCH DRAIN
1 1/2" = 1'-0"

DRAINAGE PLAN SYMBOL DIAGRAM



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ENLARGED DRAINAGE PLAN - BATH HOUSE

A130

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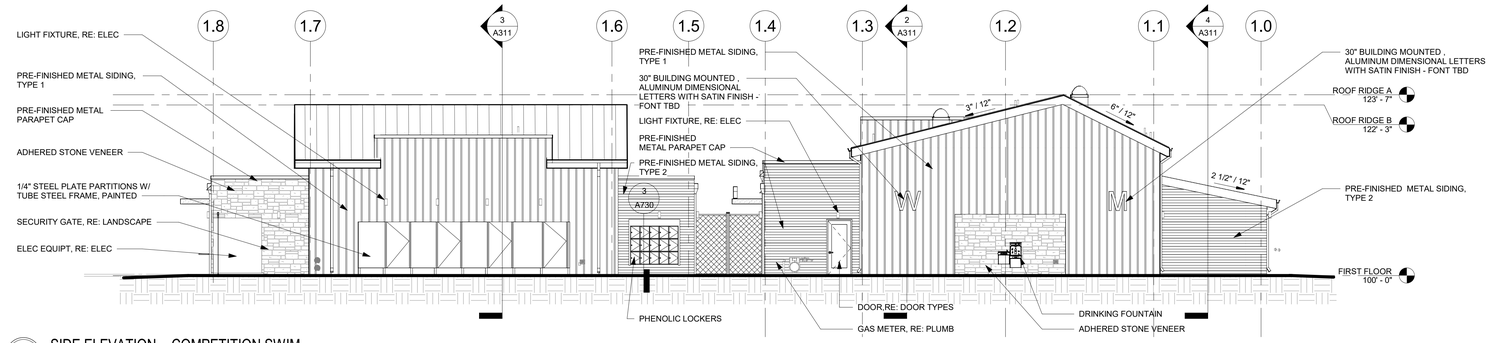
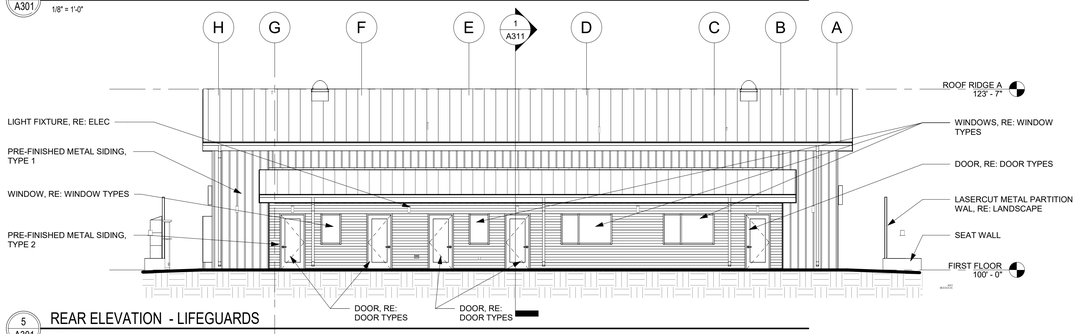


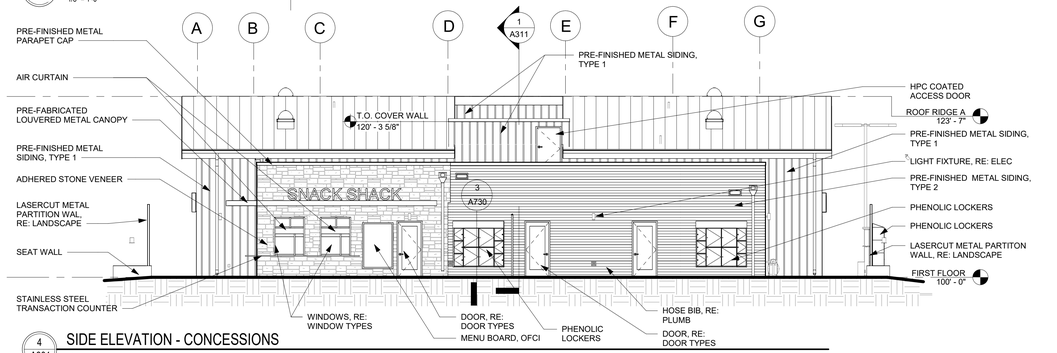
6 A301 SIDE ELEVATION - COMPETITION SWIM

1/8" = 1'-0"



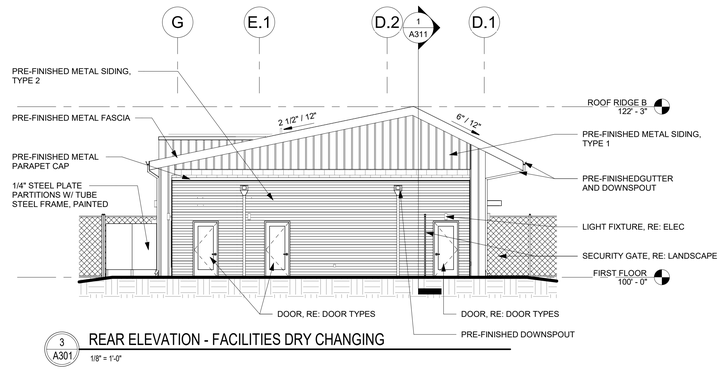
5 A301 REAR ELEVATION - LIFEGUARDS

1/8" = 1'-0"



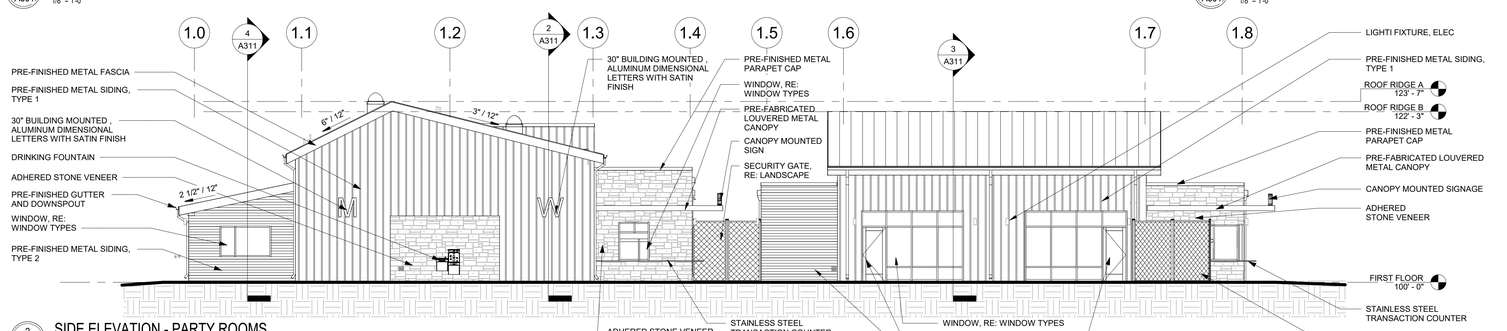
4 A301 SIDE ELEVATION - CONCESSIONS

1/8" = 1'-0"



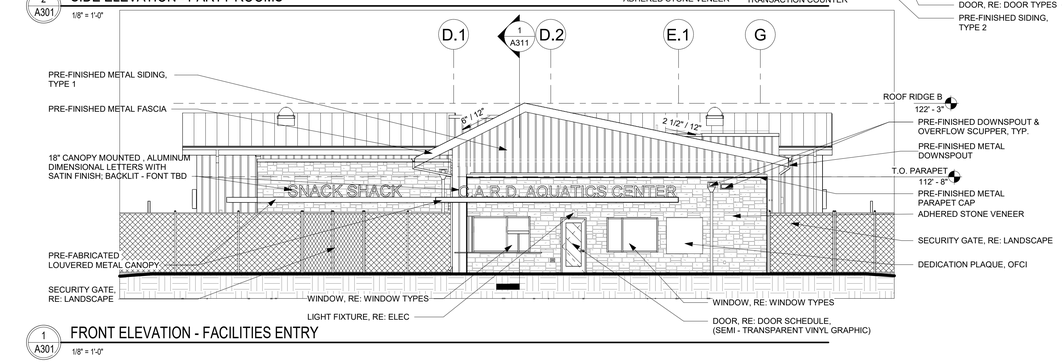
3 A301 REAR ELEVATION - FACILITIES DRY CHANGING

1/8" = 1'-0"



2 A301 SIDE ELEVATION - PARTY ROOMS

1/8" = 1'-0"



1 A301 FRONT ELEVATION - FACILITIES ENTRY

1/8" = 1'-0"

0 4' 8' 16'

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Key Plan

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CHICO AREA RECREATION & PARK DISTRICT

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OVERALL BUILDING ELEVATIONS - BATH HOUSE & FACILITIES

A301

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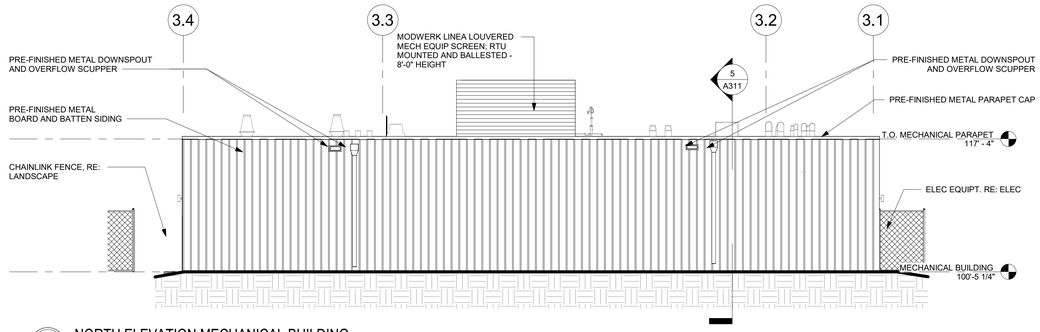
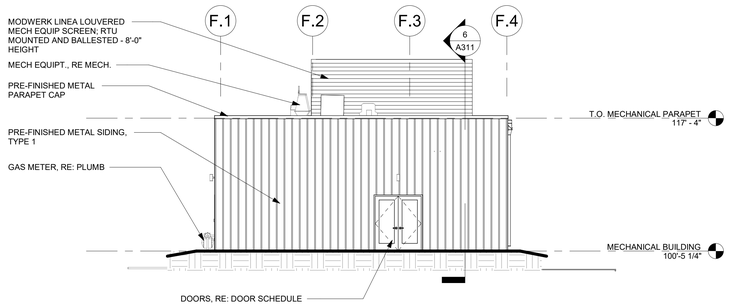


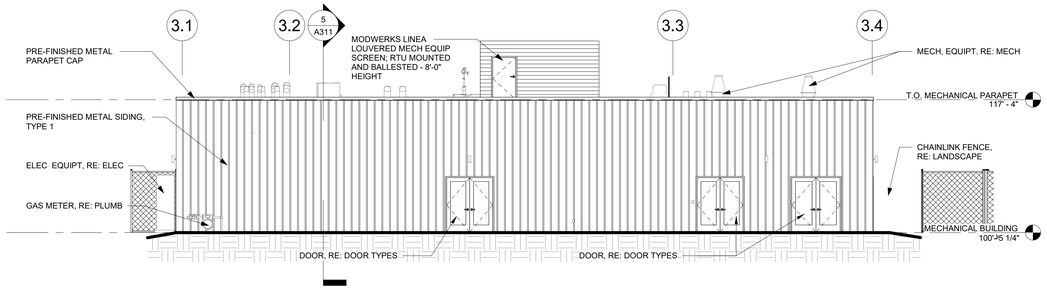
4 A302 NORTH ELEVATION MECHANICAL BUILDING

1/8" = 1'-0"



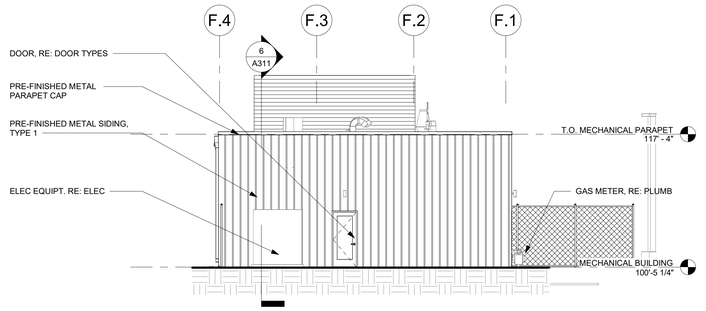
3 A302 EAST ELEVATION - MECHANICAL ENTRY

1/8" = 1'-0"



2 A302 SOUTH ELEVATION - MECHANICAL ENTRY

1/8" = 1'-0"



1 A302 WEST ELEVATION - MECHANICAL

1/8" = 1'-0"

0 4' 8' 16'

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OVERALL MECHANICAL BUILDING ELEVATIONS

A302

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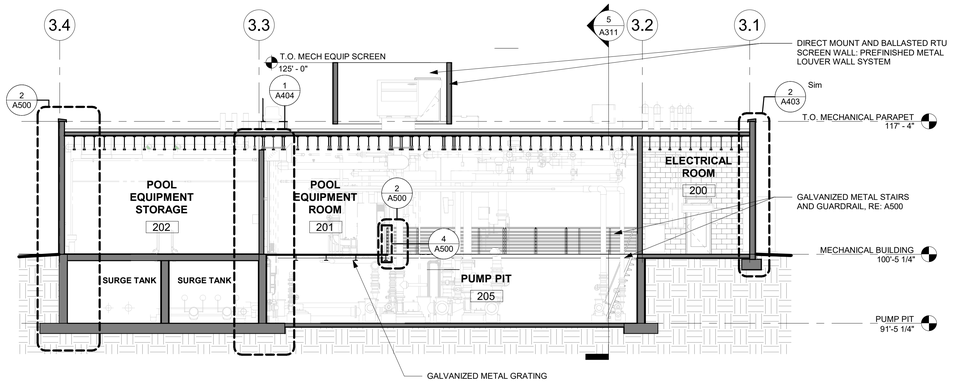
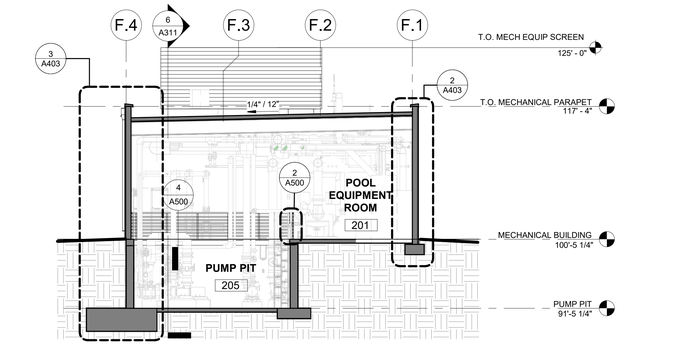


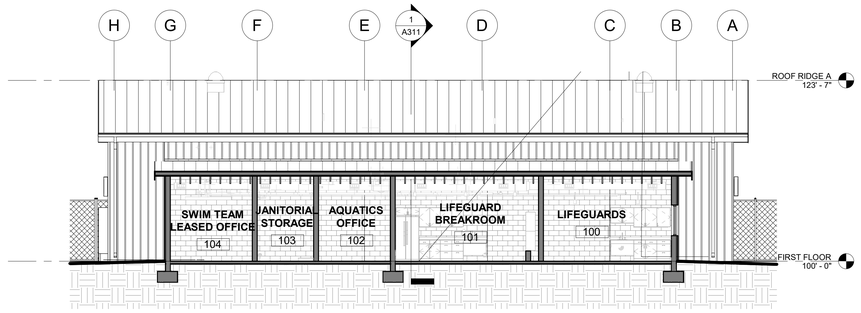
6 A311 BUILDING SECTION - POOL MECHANICAL BUILDING

1/8" = 1'-0"



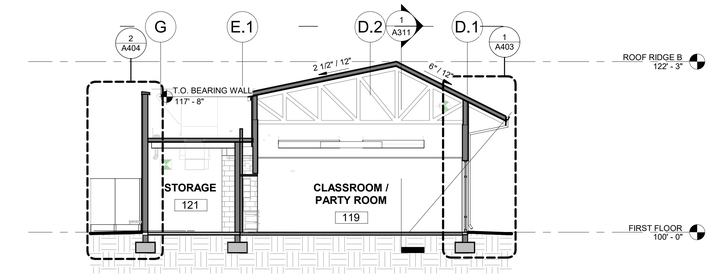
5 A311 BUILDING SECTION - PUMP PIT

1/8" = 1'-0"



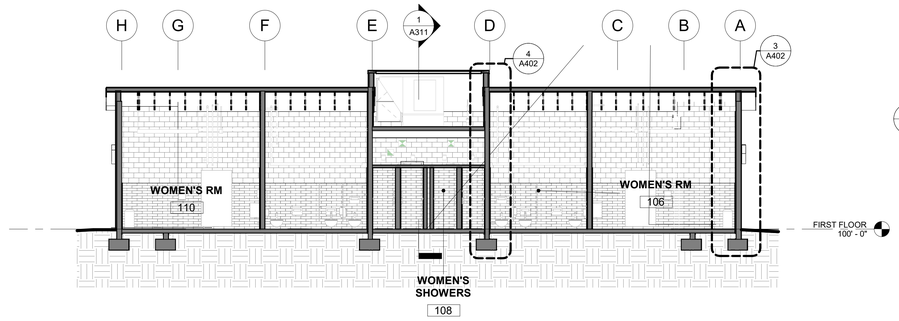
4 A311 BUILDING SECTION - LIFEGUARDS

1/8" = 1'-0"



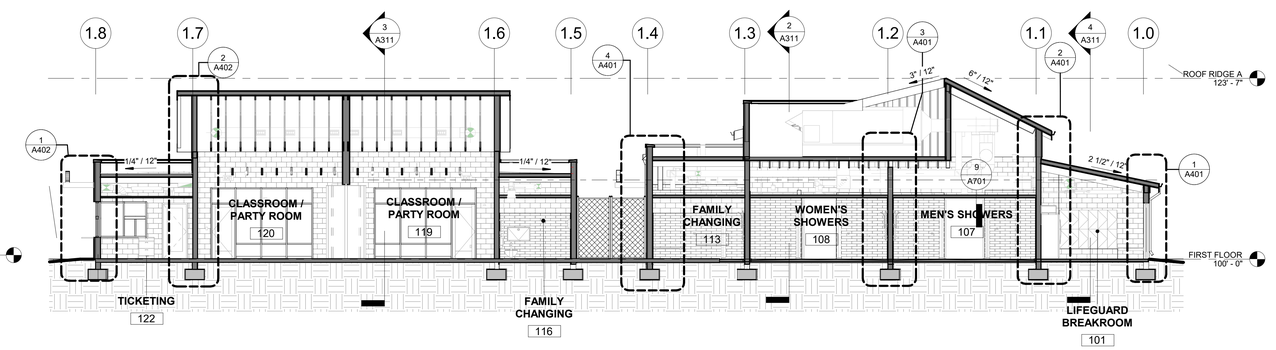
3 A311 BUILDING SECTION - PARTY ROOMS

1/8" = 1'-0"



2 A311 BUILDING SECTION - BATH HOUSE

1/8" = 1'-0"



1 A311 BUILDING SECTION - BATH HOUSE & FACILITIES BUILDING

1/8" = 1'-0"

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OVERALL BUILDING SECTIONS

A311

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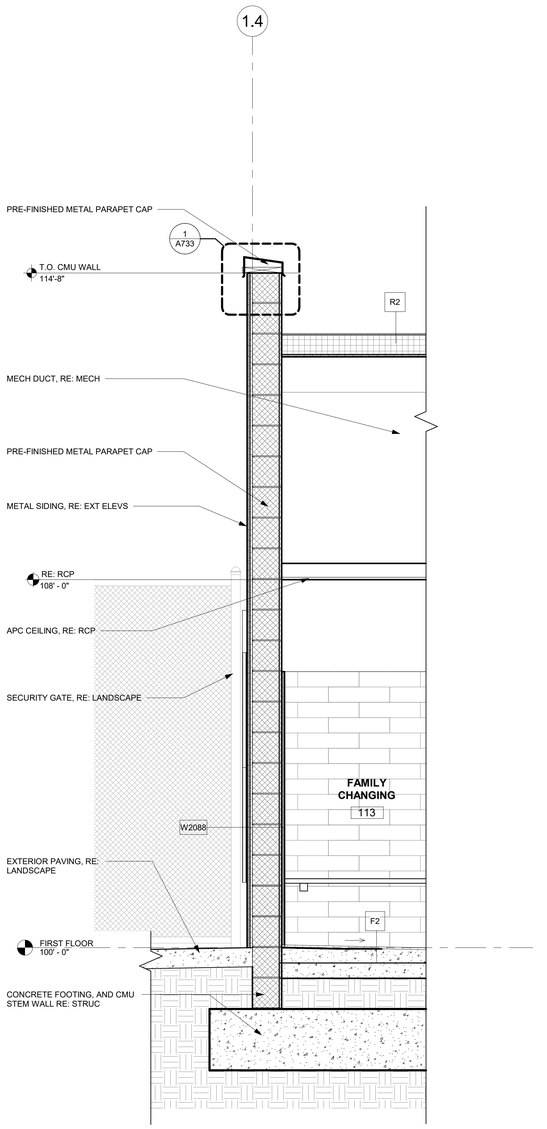
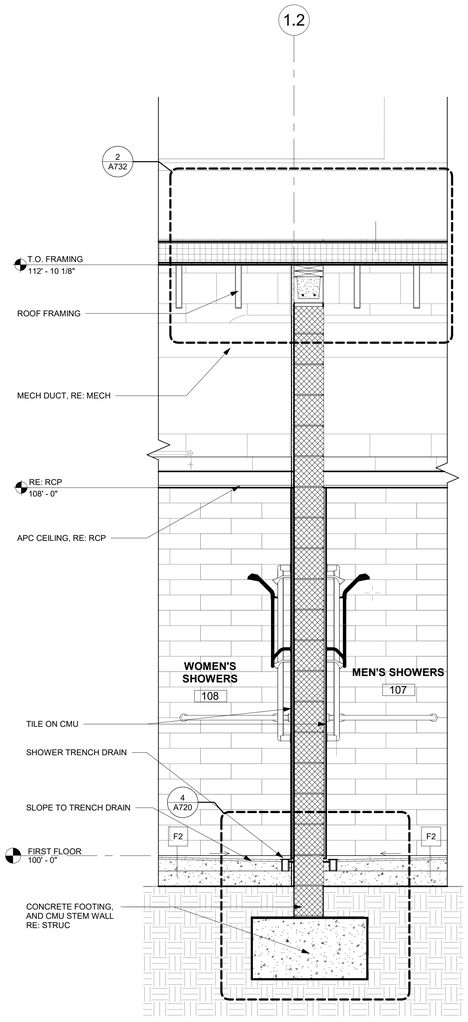
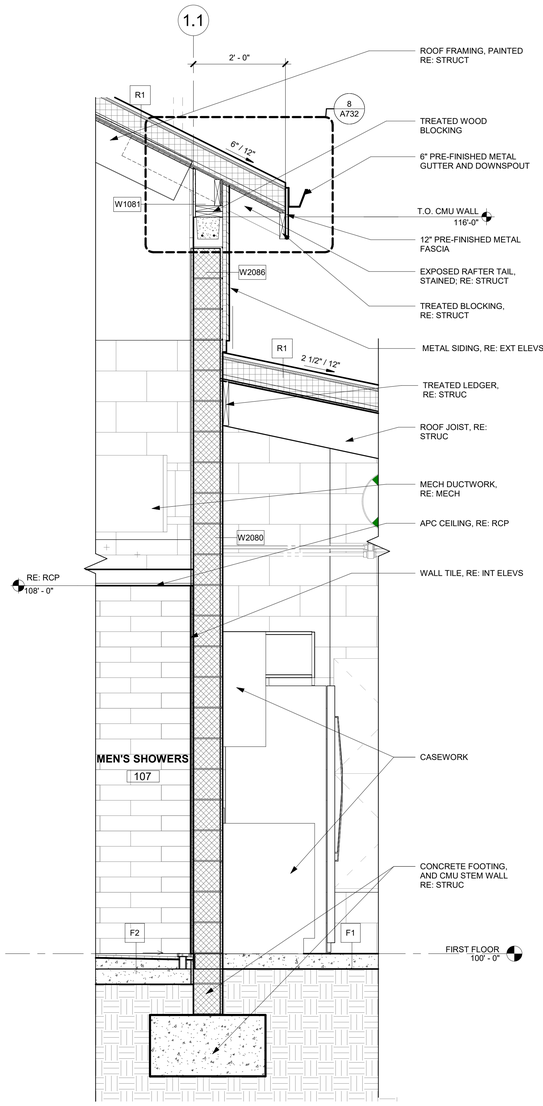


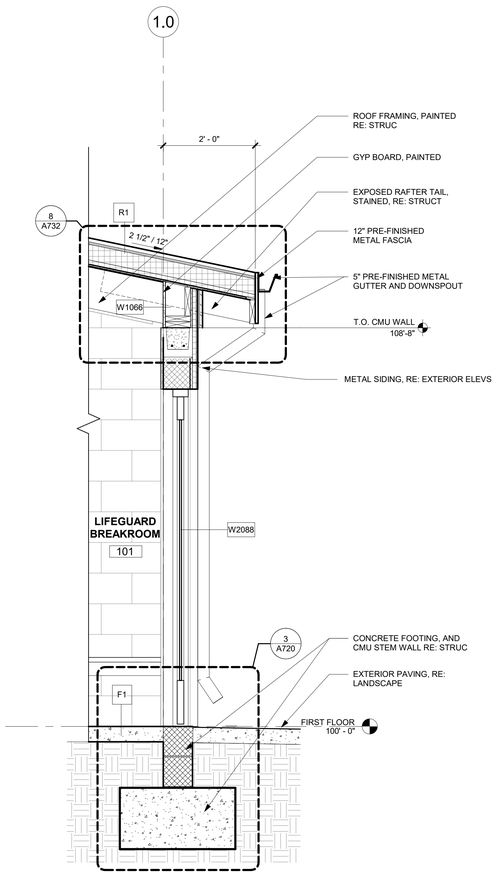
4 A401 WALL SECTION AT LOCKERS & STORAGE
3/4" = 1'-0"



3 A401 WALL SECTION AT WOMEN'S SHOWERS
3/4" = 1'-0"



2 A401 WALL SECTION AT BATHHOUSE & LIFEGUARDS
3/4" = 1'-0"



1 A401 WALL SECTION @ AT LIFEGUARDS
3/4" = 1'-0"

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WALL SECTIONS - BATH HOUSE & FACILITIES

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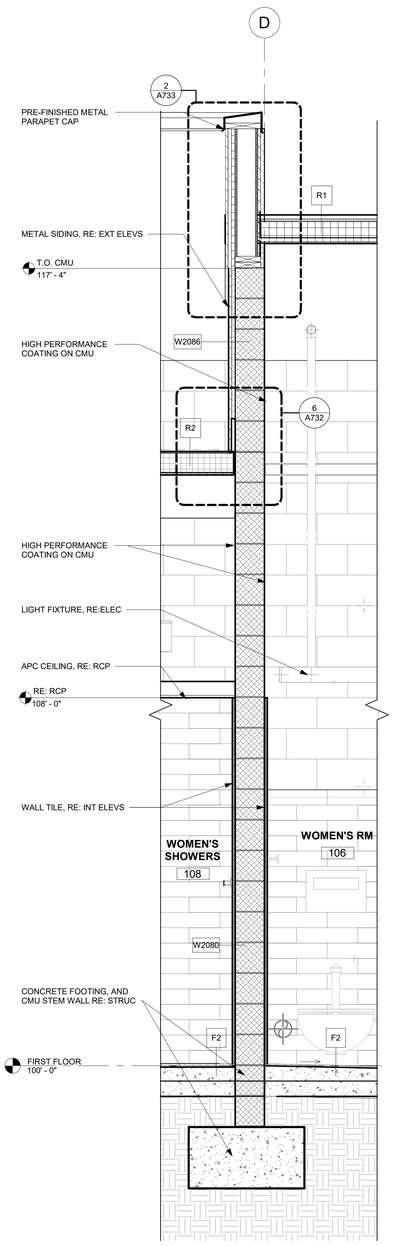
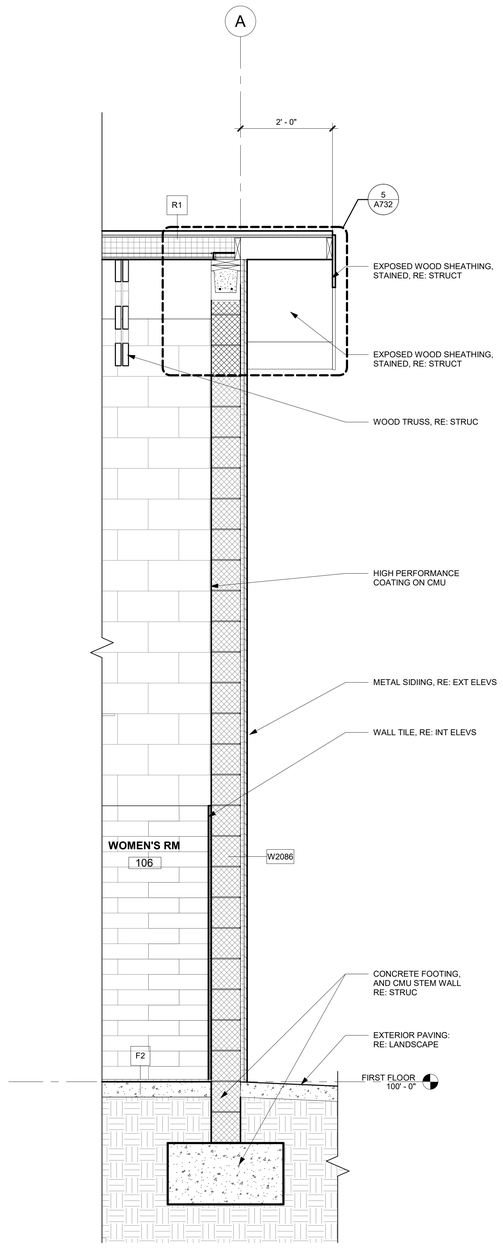
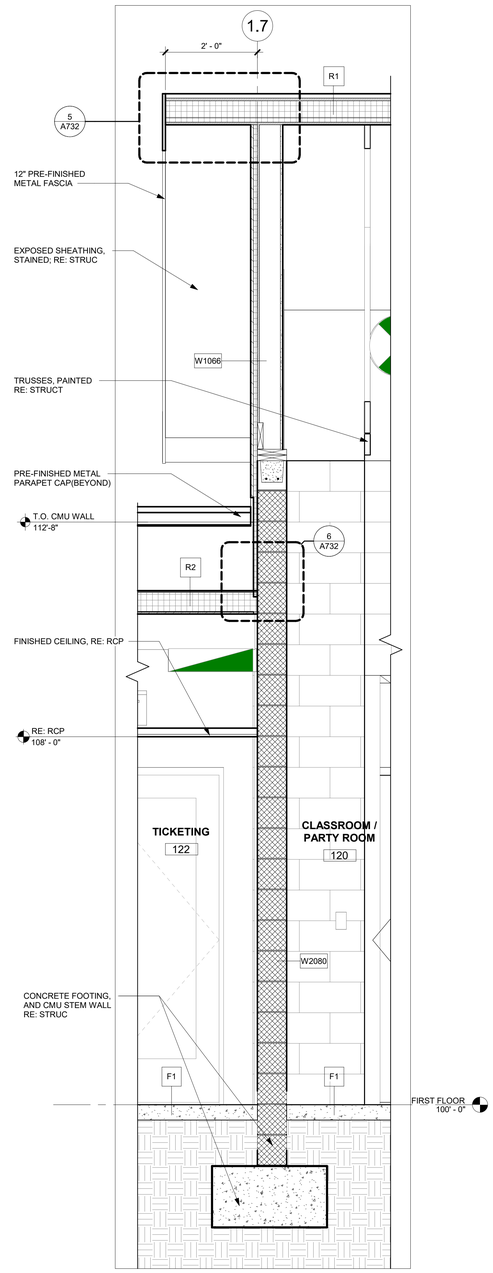
THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, IF YOU CAN'T SEE THEM, YOU NEED TO GET A NEW PRINTER.



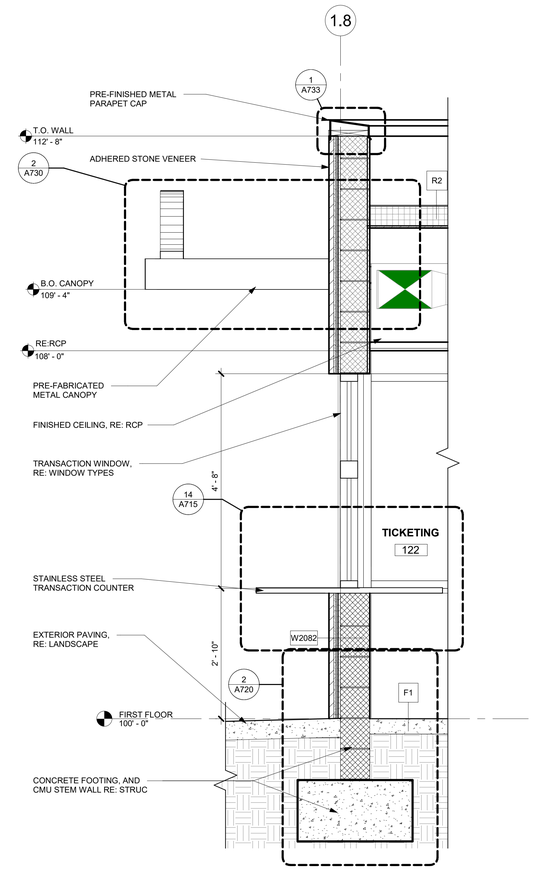
4 A402 WALL SECTION AT WOMEN'S ROOM & SHOWERS
3/4" = 1'-0"



3 A402 WALL SECTION AT WOMEN'S ROOM
3/4" = 1'-0"



2 A402 WALL SECTION AT TICKETING & CLASSROOM
3/4" = 1'-0"



1 A402 WALL SECTION AT TICKETING
3/4" = 1'-0"

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ARCHITECT:
BRS ARCHITECTURE
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Denver, CO 80209
303.455.1366

CIVIL ENGINEER:
ROLLS ANDERSON & ROLLS
115 Yellowstone Dr,
Chico, CA 95973
530.895.1422

BARKER RINKER SEACAT ARCHITECTURE

PERMIT REVIEW & BID SET ONLY
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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	100% CDS
Date	01.24.2025

WALL SECTIONS - BATH HOUSE & FACILITIES

A402

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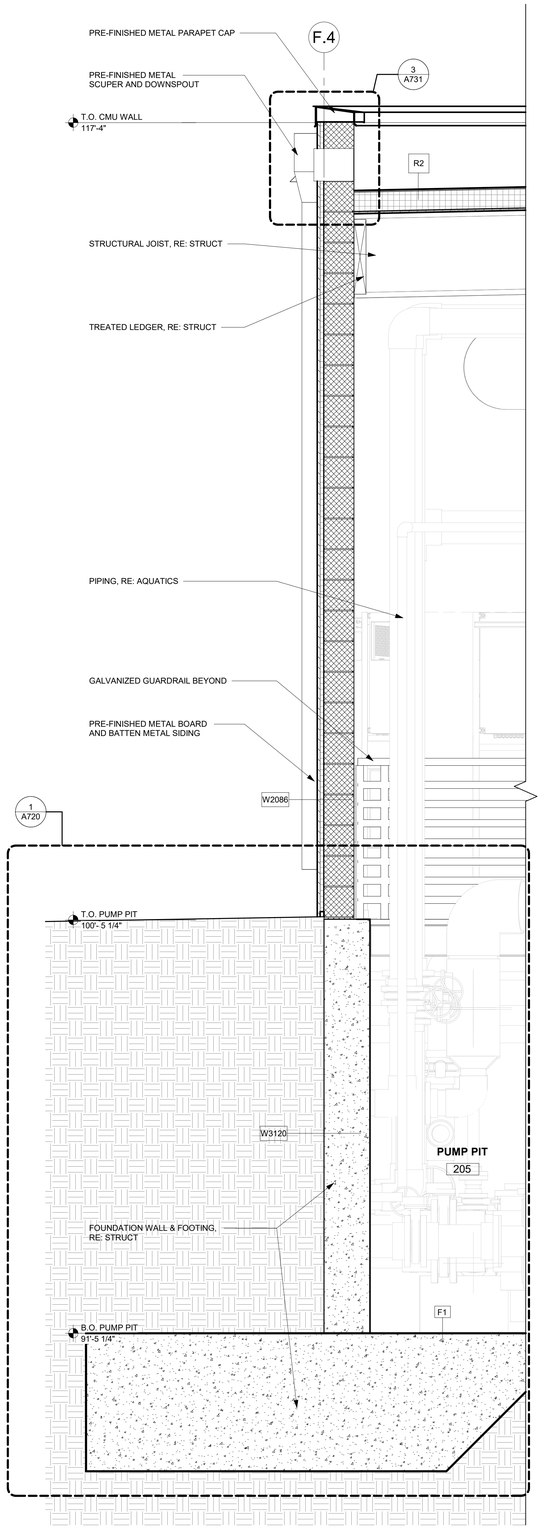
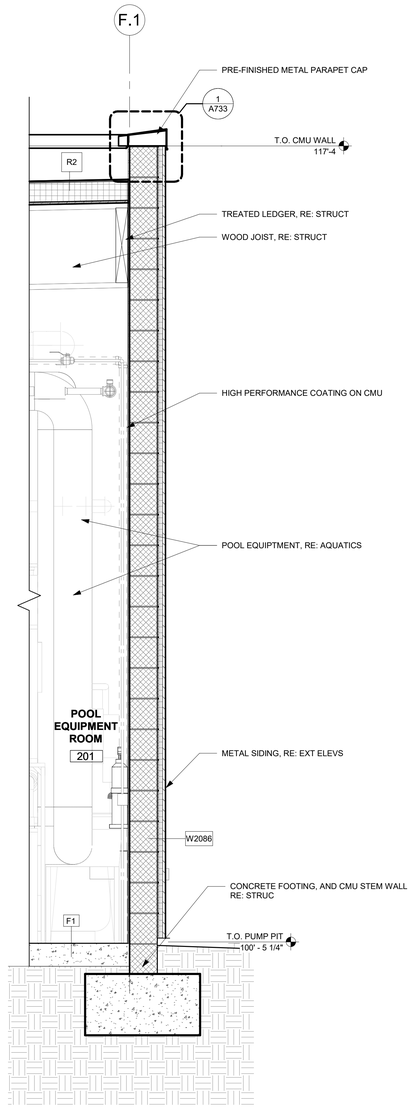
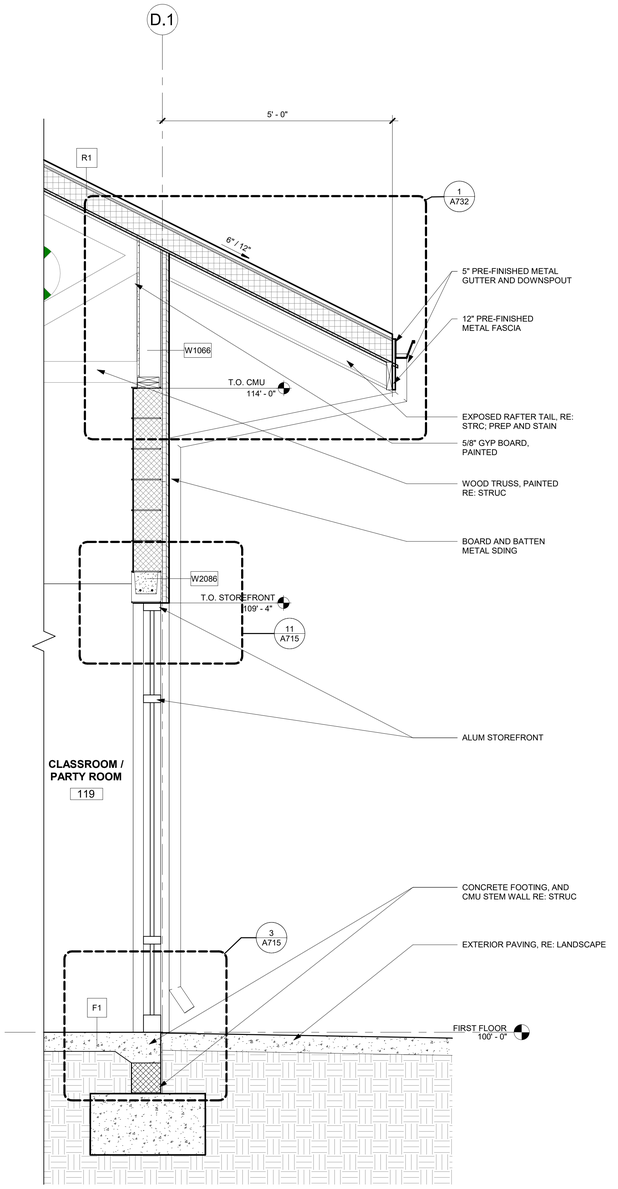
File Location: T:\Projects\2023\23030_Chico Aquatic and Recreation Facility\23030_WORKING\AUTOCAD\SHEETS\IGN002 OVERALL PLAN ! SAVE DATE: 3/5/2024 4:18 PM BY: jhecendido ! PLOT DATE: 1/22/2025 2:45 PM BY: Jin He-Cendido
1/22/2025 3:58:23 PM Autodesk Docs://Chico CA Aquatics Center/CARD Aquatic Facility - 2023.010_R24.rvt



3 A403 WALL SECTION - MECH. BLDG. PUMP PIT
3/4" = 1'-0"



2 A403 WALL SECTION - MECH. BLDG. POOL EQPT 1
3/4" = 1'-0"



1 A403 WALL SECTION - PARTY ROOM
3/4" = 1'-0"

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CHICO AREA RECREATION & PARK DISTRICT

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WALL SECTIONS - FACILITIES & MECHANICAL BUILDING

A403

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE PLOTTING
IF NOT, ADJUST PLOTTING SCALE ACCORDINGLY
plot to .pdf in color
for paper size, see below
www.plan-holders.com
THE SQUARES ABOVE ARE COLOR WITH BLACK AND WHITE LETTERS,

File Location: T:\Projects\23030\23030_Chico Aquatic and Recreation Facility\23030_WORKING\AUTOCAD\SHEETS\GN002 OVERALL PLAN | SAVE DATE: 3/5/2024 4:18 PM BY: jhelandido | PLOT DATE: 1/22/2025 2:46 PM BY: Jin He-Candido
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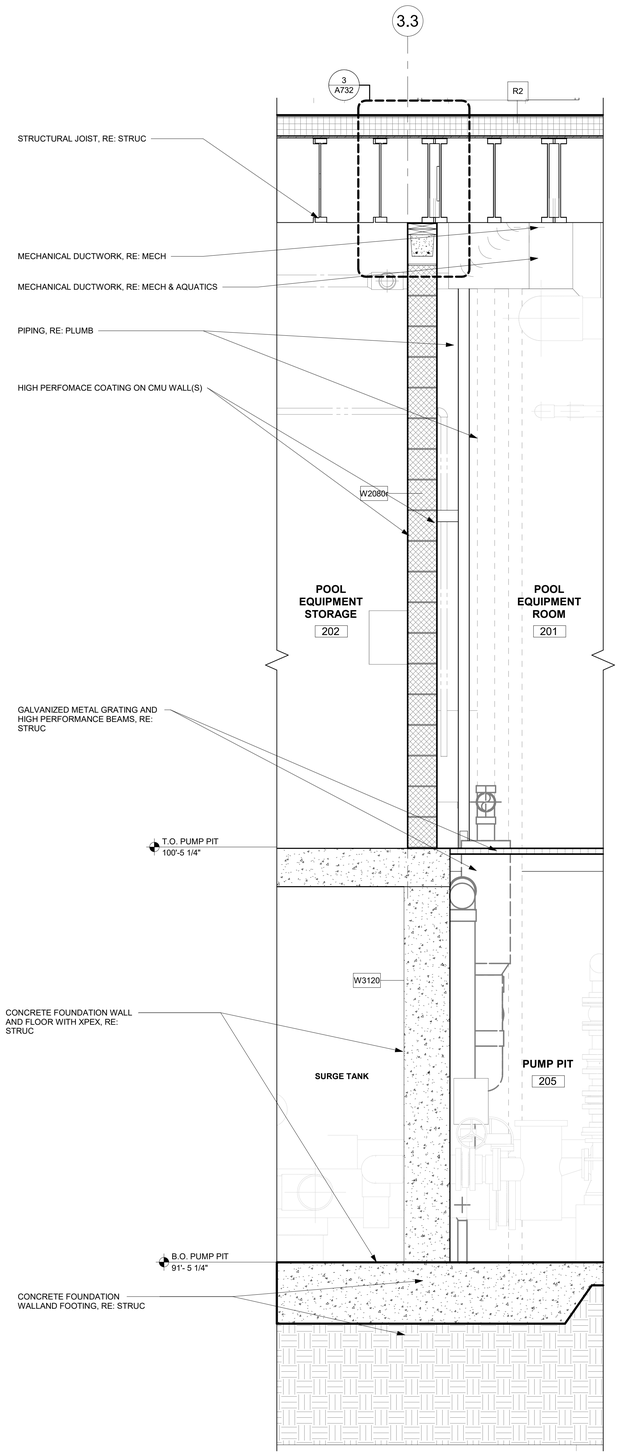
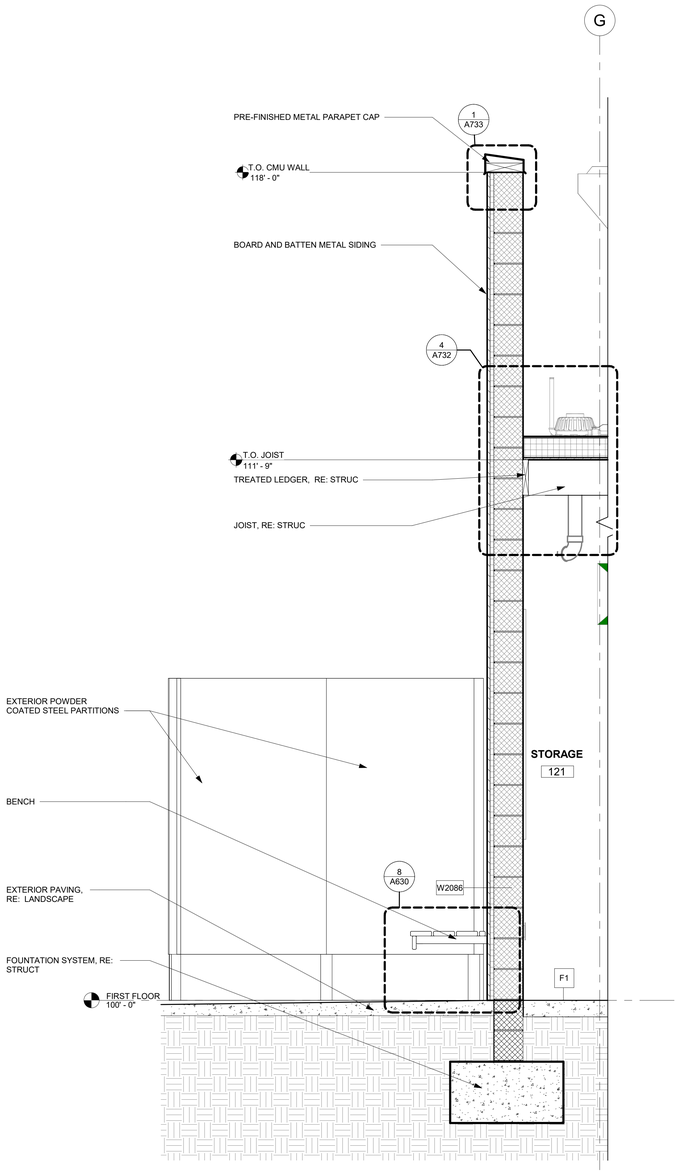


1 A404 WALL SECTION - MECH. BLDG. POOL EQPT/PUMP PIT

3/4" = 1'-0"



2 A404 WALL SECTION - MECH. BLDG. STORAGE

3/4" = 1'-0"

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WALL SECTIONS - FACILITIES & MECHANICAL BUILDING

A404

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THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, WHEN PLOTTED CORRECTLY

IF NOT TRUE, ADJUST PLOT SETTINGS to get a color and black and white square

THE LINE BROWN ABOVE IS EXACTLY ONE INCH LONG, IF IT DOES NOT PLOT AS SUCH, ADJUST PLOT SETTINGS

File Location: T:\Projects\2023\23030_Chico Aquatic and Recreation Facility\23030_WORKING\AUTOCAD\SHEETS\GN002 OVERALL PLAN | SAVE DATE: 3/5/2024 4:18 PM BY: jhesterdido | PLOT DATE: 1/22/2025 2:45 PM BY: Jin He-Cerdido

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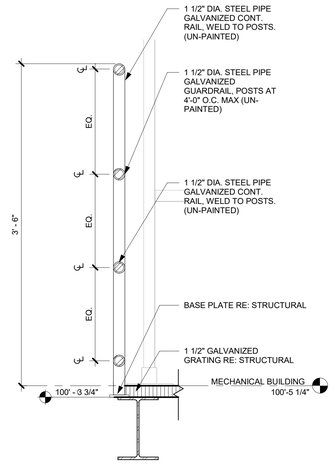
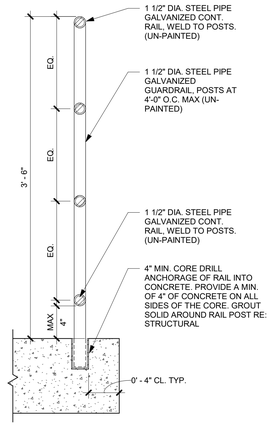
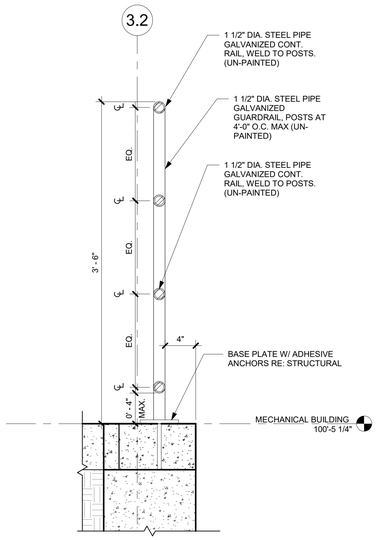


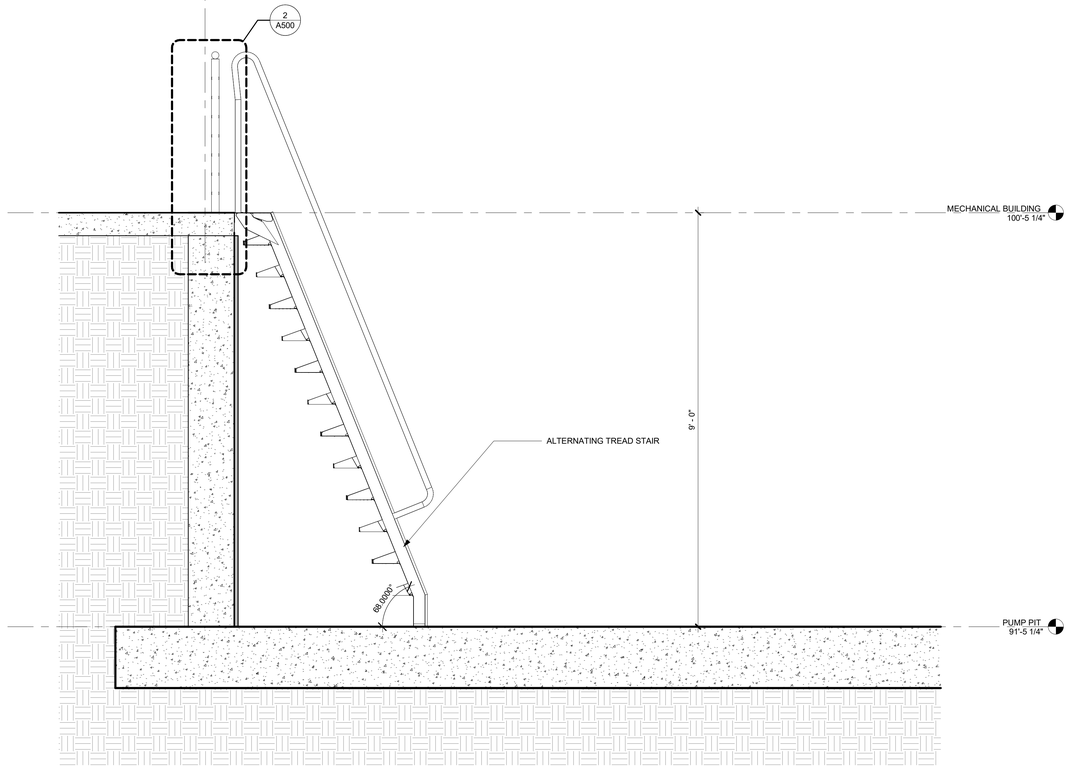
4 A500 GUARDRAIL @ METAL GRATING
1 1/2" = 1'-0"



3 A500 GUARDRAIL @ CONC. - REMOVEABLE
1 1/2" = 1'-0"



2 A500 GUARDRAIL @ CONC.
1 1/2" = 1'-0"



1 A500 ALTERNATING TREAD STAIR AT PUMP PIT
3/4" = 1'-0"

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Key Plan

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PUMP PIT ACCESS

A500

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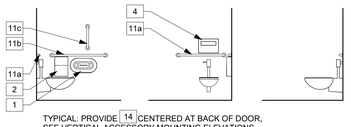
THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, FOR USE ON COLOR OR BLACK AND WHITE DRAWINGS.
IF NOT TO SCALE, USE THE LINE BELOW TO SCALE DRAWINGS
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH ONLY, IF THIS LINE DOES NOT MEASURE ONE INCH, ADJUST SCALE ACCORDINGLY

File Location: T:\Projects\2023\23030_Chico Aquatic and Recreation Facility\23030_WORKING\AUTOCAD\SHEETS\G\N002 OVERALL PLAN / SAVE DATE: 3/5/2024 4:18 PM BY: jhecendido / PLOT DATE: 1/20/2023 2:45 PM BY: Jin He-Cendido
1/22/2025 3:58:28 PM Autodesk Docs://Chico CA Aquatics Center/CARD Aquatic Facility - 2023.010_R24.rvt

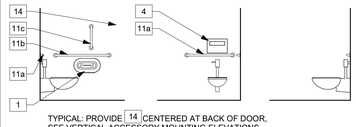
TOILET ACCESSORY GROUPS

TG-W1 TOILET GROUP 1
WOMEN (ACCESSIBLE)



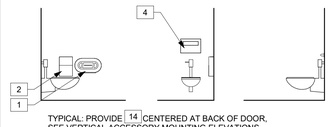
TYPICAL: PROVIDE 14 CENTERED AT BACK OF DOOR, SEE VERTICAL ACCESSORY MOUNTING ELEVATIONS

TG-M1 TOILET GROUP 1
MEN (ACCESSIBLE)



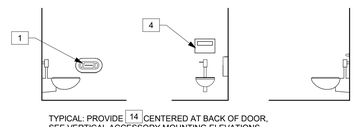
TYPICAL: PROVIDE 14 CENTERED AT BACK OF DOOR, SEE VERTICAL ACCESSORY MOUNTING ELEVATIONS

TG-W2 TOILET GROUP 2
WOMEN



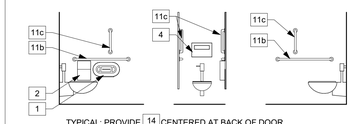
TYPICAL: PROVIDE 14 CENTERED AT BACK OF DOOR, SEE VERTICAL ACCESSORY MOUNTING ELEVATIONS

TG-M2 TOILET GROUP 2
MEN



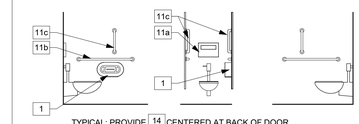
TYPICAL: PROVIDE 14 CENTERED AT BACK OF DOOR, SEE VERTICAL ACCESSORY MOUNTING ELEVATIONS

TG-W3 TOILET GROUP 3
WOMEN AMBULATORY (ALT-ACCESSIBLE)



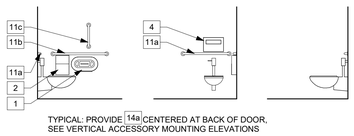
TYPICAL: PROVIDE 14 CENTERED AT BACK OF DOOR, SEE VERTICAL ACCESSORY MOUNTING ELEVATIONS

TG-M3 TOILET GROUP 3
MEN AMBULATORY (ALT-ACCESSIBLE)



TYPICAL: PROVIDE 14 CENTERED AT BACK OF DOOR, SEE VERTICAL ACCESSORY MOUNTING ELEVATIONS

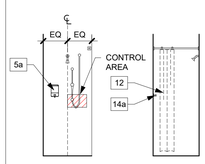
TG-U1 TOILET GROUP 1
UNISEX (ACCESSIBLE)



TYPICAL: PROVIDE 14a CENTERED AT BACK OF DOOR, SEE VERTICAL ACCESSORY MOUNTING ELEVATIONS

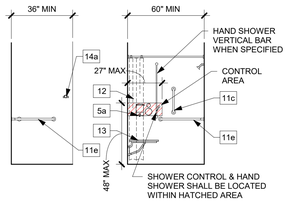
SHOWER ACCESSORY GROUPS

SH-1 SHOWER GROUP 1



CONTROL WALL SHOWER ENTRY

SH-2 SHOWER ACCESSIBLE GROUP 2
ROLL-IN ACCESSIBLE



SIDE WALL CONTROL WALL

ACCESSORY NOTES:

1. NOT ALL ITEMS ON VERTICAL ACCESSORY & FIXTURE LOCATIONS DRAWING WILL BE USED. RE: PLANS, ENLARGED PLANS AND INTERIOR ELEVATIONS FOR ITEMS USED.
2. [ ] ACCESSORY INDICATOR.
3. REFER TO PLAN, INTERIOR ELEVATIONS AND VERTICAL ACCESSORY AND FIXTURE LOCATIONS DRAWINGS TO COORDINATE ACCESSORY AND FIXTURE LOCATIONS.
4. REFER TO VERTICAL ACCESSORY AND FIXTURE LOCATIONS & TOILET ACCESSIBILITY GUIDELINES DRAWINGS FOR MOUNTING HEIGHTS AND NOTES.
5. ALL ACCESSORIES AT ACC SINGLE USER TOILET ROOMS AND IN ACC TOILET STALLS TO BE MOUNTED AT ACC HEIGHTS.
6. PROVIDE 3/8" PLYWOOD BACKING AT ALL ACCESSORIES WHERE ACCESSORY EXTENDS ABOVE TO FLUSH OUT TILE. PAINT PLYWOOD TO MATCH WALL COLOR AND CUT PLYWOOD IN 1" AROUND ACCESSORY EDGES TO CONCEAL IT.
7. ALL BABY CHANGING STATIONS AND CHILD PROTECTION SEATS TO BE SUPPLIED AND INSTALLED BY CONTRACTOR. CONTRACTOR TO PROVIDE CODE COMPLIANT BLOCKING.
8. MAINTAIN CLEAR FLOOR SPACE AT ALL ACCESSORIES, LOCKER AND BENCHES, PER ACC CLEAR FLOOR GROUND SPACE, TYP.
9. RE: 1/A600 GRAB BAR MOUNTING HEIGHTS & ACCESSORY ELEVATIONS
10. RE: ACCESSIBILITY GUIDELINES FOR TOILET CLEARANCES

Appliance Schedule

Letter	Appliance Description	Appliance Manuf.	Appliance Model	Appliance Finish	Procurement/Install	Comments
A	DRINK REFRIGERATOR	TRUE	TS-23G-HC~FGD01	STAINLESS STEEL	OFCI	
B	DOUBLE REFRIGERATOR	TRUE	T-49DT-HC	STAINLESS STEEL	OFCI	
C	HIGH SPEED COMBINATION OVEN	XPRESS CHEF		STAINLESS STEEL	OFOI	
D	NACHO CHEESE	CARNIVAL KING	382CD225		OFOI	
E	SNO CONE ICE MACHINE	CARNIVAL KING	382SCM250	ACRYLIC	OFOI	
F	PRETZEL WARMER	SERV IT	PDW12D2P	CHROME-PATED METAL	OFOI	
G	STAINLESS STEEL WORKTABLE W/ BACKSPLASH	ULINE	VARIES	STAINLESS STEEL	OFOI	
H	STAINLESS STEEL WORKTABLE W/ BACKSPLASH	ULINE	VARIES	STAINLESS STEEL	OFOI	
I	REFRIGERATOR	GE	GYE21JYMFS	FINGERPRINT RESISTANT STAINLESS	OFCI	LIFEGUARD BREAKROOM

ACCESSORY SCHEDULE

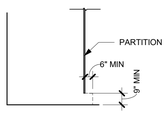
NO.	Vendor - Bobrick	Accessory Description	Model Number	Mount Type	Electrical Requirement	Comments
1	--	Toilet Tissue Dispenser	--	Surface	N/A	Owner Furnished
2	Bobrick	Napkin Disposal	B-254	Surface	N/A	
4	Bobrick	Toilet Seat Cover	B-221	Surface	N/A	
5	Bobrick	Soap Dispenser Vert.	B-211	Surface	N/A	
5a	Bobrick	Shower Soap Dispenser	818615	Surface	N/A	
5b	Chicago Faucets	Electronic Soap Dispenser	E80-SDF-1CP	Counter Top	YES	To Match Faucet
8a	Georgia Pacific	Automatic Roll Towel Dispenser	59466	Recessed	N/A	
9.1	Dyson	Hand Dryer	Airblade V	Surface	YES	
11a	Bobrick	Grab Bar	B-6806	Surface	N/A	
11b	Bobrick	Grab Bar	B-6806	Surface	N/A	
11c	Bobrick	Grab Bar	B-6806	Surface	N/A	
11d	Bobrick	Grab Bar	B-6806	Surface	N/A	
12	Bobrick	Shower Rod, Curtain, Hooks	B-6107, B-204-1, B-204-2, B-204-3	N/A	N/A	
13	Bobrick	Shower Seat	B-5181	Surface	N/A	
14	Bobrick	Coat Hook With Bumper	B-212	Surface	N/A	
14a	Bobrick	Double Robe Hook	B-672	Surface	N/A	
18	Koala	Horizontal Baby Changer	KB110-SSWM	Surface	N/A	
18b	Koala	Adult Changing Station	KB3000-AHL	Surface	YES	
22	Suitmate Swim Suit Spinner	Swimsuit Spinner	115V/60Hz	Surface	YES	

CODE-REQUIRED SIGNAGE WILL BE PROVIDED THROUGHOUT THE FACILITY AND SHALL INCLUDE THE FOLLOWING SIGN TYPES:

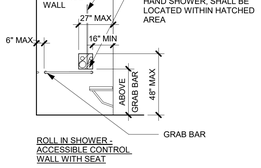
ROOM IDENTIFICATION WITH SYMBOLS
ROOM NAMES
EXIT SIGNS
MAXIMUM OCCUPANCY SIGNS
SIGNS TO BE VISTA SYSTEM OR ACCEPTED SUBSTITUTION.

2 / A600 SIGNAGE NOTES
12" = 1'-0"

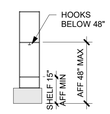
ACCESSIBLE LOCKER & BENCH



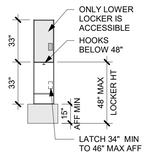
ACCESSIBLE COMPARTMENT TOE CLEARANCE



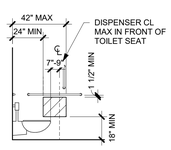
ROLL IN SHOWER - ACCESSIBLE CONTROL WALL WITH SEAT



ACCESSIBLE COMPARTMENT FULL HEIGHT LOCKERS



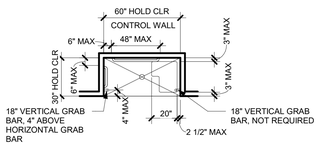
ACCESSIBLE COMPARTMENT HALF HEIGHT LOCKERS



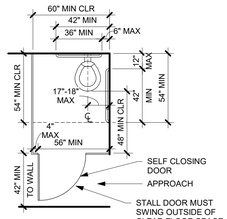
ACCESSIBLE PROTRUDING DISPENSER OPENING AREA

AT NON-ACCESSIBLE SHOWER

SHOWER - EXAMPLE OF STANDARD SHOWER

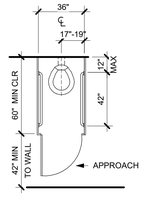


ROLL IN SHOWER - EXAMPLE ROLL-IN WITH SEAT

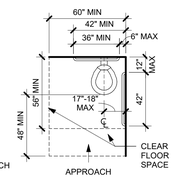


ACC STALL

TYPICAL CLEAR FLOOR SPACE, AND LOCATION OF GRAB BARS AND TOILET IN ALL ACCESSIBLE - STALLS



AMBULATORY STALL



TYPICAL CLEAR FLOOR SPACE, AND LOCATION OF GRAB BARS AND TOILET IN ALL ACCESSIBLE - NOT IN STALLS

GENERAL NOTES:

1. ALL ACCESSIBLE DIMENSIONS ARE TO FACE OF FINISH MATERIAL, UON.
2. TOLERANCES NOT PERMITTED FOR RANGES STATED WITH MIN AND MAX END POINTS

LOCKER TYPE LEGEND

A — THREE TIER LOCKERS 15Wx18Dx60H

A — TWO TIER LOCKERS 24Wx18Dx60H

A — TWO TIER LOCKERS 15Wx15Dx60H

1. LOCKERS SHOWN IN PLAN
2. "A" INDICATES ACCESSIBLE LOCKERS, TYP.

1. PROVIDE FINISHED END PANELS OF SAME MATERIAL AT LOCKERS AT ALL EXPOSED SIDE CONDITIONS. SCRIBE CLOSURE PANEL TO FIT TIGHT TO ADJACENT WALL.
2. PROVIDE CLOSURE STRIPS OF SAME MATERIAL AS LOCKERS AT ALL GAPS AT JAMB AND HEAD CONDITIONS. SCRIBE JAMB AND HEAD CLOSURES TO FIT TIGHT TO ADJACENT WALL.
3. PROVIDE CLOSURE PANELS OF SAME MATERIAL AS LOCKERS AT ALL JUNCTIONS BETWEEN LOCKER BAYS TO PREVENT OBJECTS FROM FALLING BEHIND AND BETWEEN LOCKERS.

1 / A600 LOCKER NOTES DETAIL
1/4" = 1'-0"

3 / A600 TOILET ACCESSIBILITY GUIDELINES 2022 CBC CH. 11B
1/4" = 1'-0"

VERTICAL ACCESSORY & FIXTURE LOCATIONS

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530.895.1422

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Revision Schedule

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1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	100% CDS
Date	01.24.2025

TOILET ACCESSORY GROUPS, NOTES & LOCATION, ACCESSIBILITY GUIDELINES

A600

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG. IF IT IS NOT, ADJUST PLOTTING SCALE ACCORDINGLY.
IF NOT ONE INCH, DRAWING IS NOT TO SCALE
pick to .pdf in color
for paper plots, use 24x36
www.ultimatepaper.com
THE SQUARES ABOVE ARE COLOR WITH BLACK AND WHITE LETTERS, FOR PAPER PLOTS

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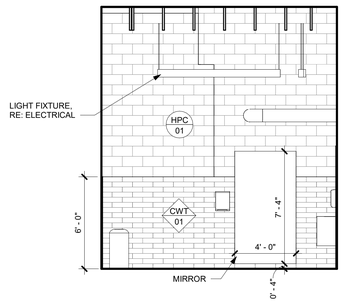
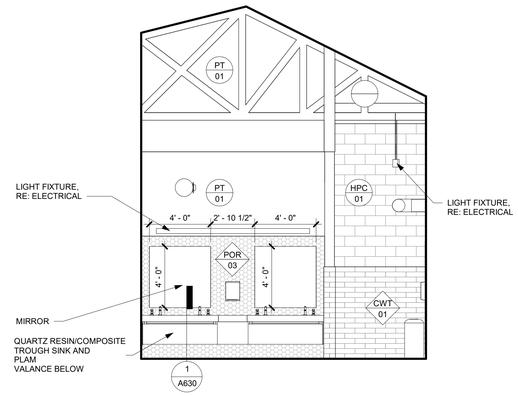
1/22/2025 3:58:30 PM Autodesk Docs://Chico CA Aquatics Center/CARD Aquatic Facility_2023.010_R24.rvt

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG IF THIS SHEET IS ORIGINALLY PRINTED AT 24" X 36"
IF NOT, ADJUST ACCORDINGLY
THE SQUARES ABOVE ARE COLOR WITH BLACK AND WHITE LETTERS, NUMBERS AND LINES
plot to .pdf in color
for paper size, use 24x36
where shown, line weights are 0.25 mm



8 A601 INT ELEV - MEN'S ROOM 105 - W
1/4" = 1'-0"



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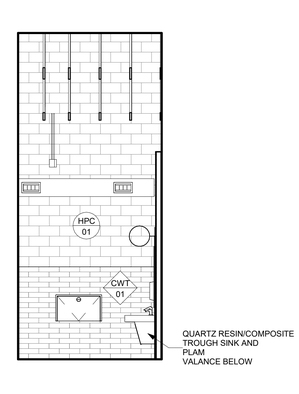

6 A601 INT ELEV - MEN'S ROOM 105 - E
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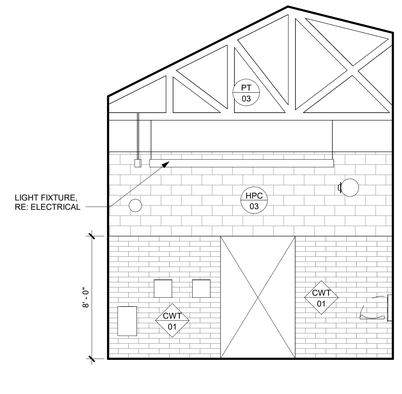

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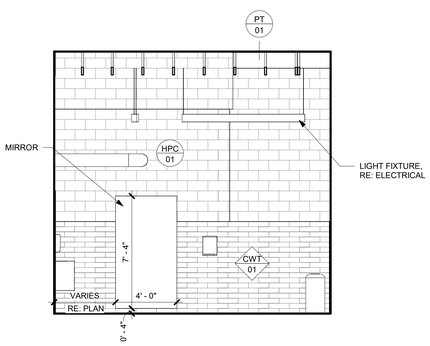

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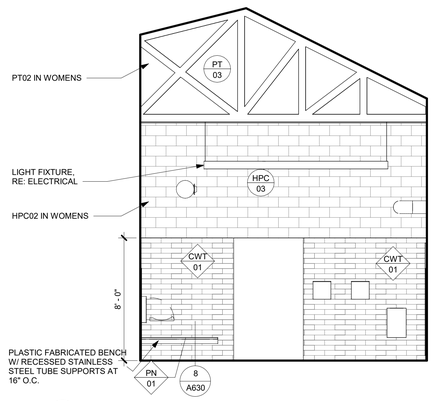

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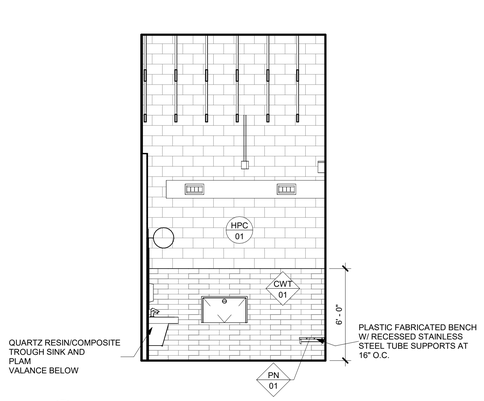

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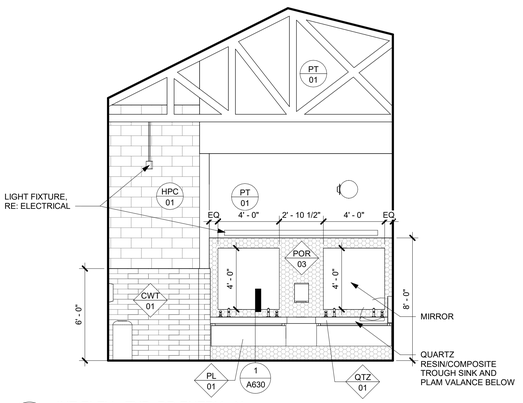

1 A601 INT ELEV - TYP. RR ENTRY - N
1/4" = 1'-0"

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CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	100% CDS
Date	01.24.2025

INTERIOR ELEVATIONS - BATH HOUSE

A601

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1/22/2025 3:58:33 PM Autodesk Docs://Chico CA Aquatics Center/CARD Aquatic Facility - 2023.010_R24.rvt

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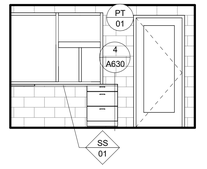
THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, AND NUMBERS. IF THEY ARE NOT, THIS DRAWING HAS BEEN REDUCED OR ENLARGED. ADJUST SCALES ACCORDINGLY.

plot to .pdf = color
to paper size, use 24x36
to scale, use graphic scale

21 A602 INT ELEV - TICKETING - E
1/4" = 1'-0"



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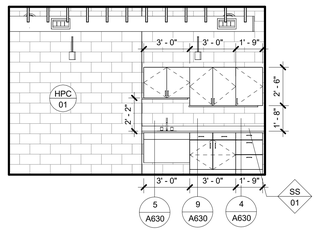

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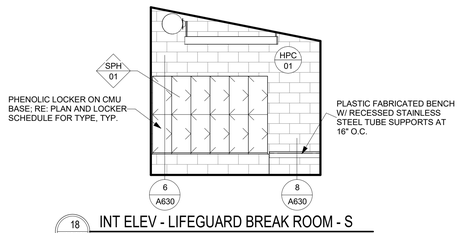

18 A602 INT ELEV - LIFEGUARD BREAK ROOM - S
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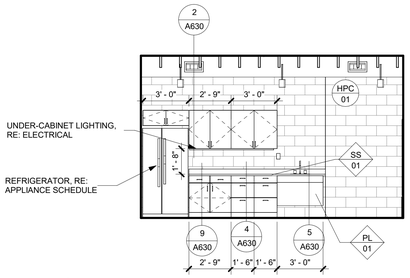

17 A602 INT ELEV - LIFEGUARD BREAK ROOM - E
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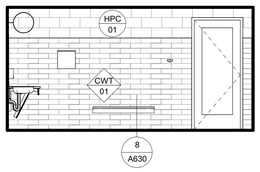
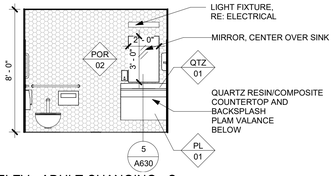


16 A602 INT ELEV - ADULT CHANGING - W
1/4" = 1'-0"



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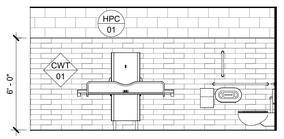

14 A602 INT ELEV - ADULT CHANGING - E
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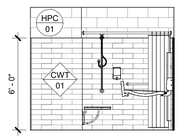

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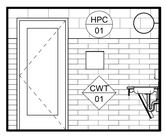

12 A602 INT ELEV - FAMILY CHANGING 116 - W
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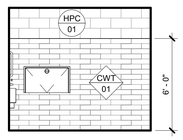

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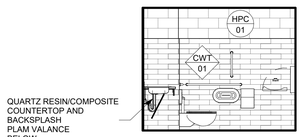

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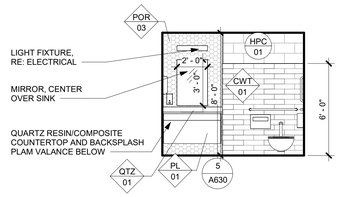

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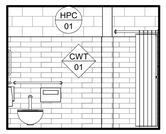

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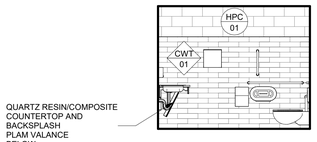

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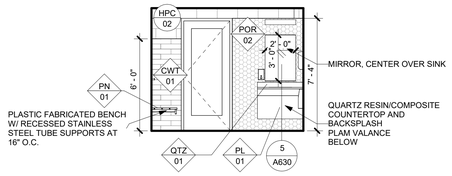
1/4" = 1'-0"



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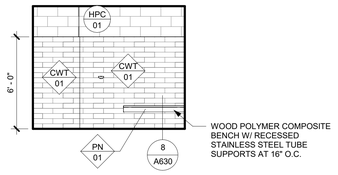
1/4" = 1'-0"



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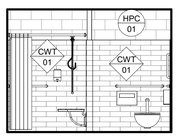

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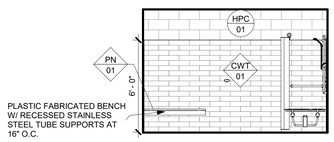

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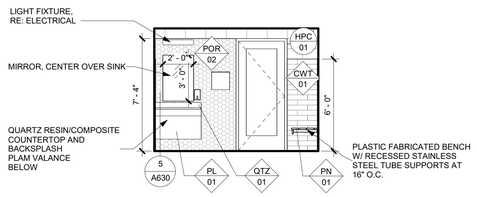

2 A602 INT ELEV - FAMILY CHANGING 113 - E
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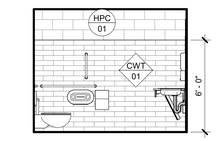

1 A602 INT ELEV - FAMILY CHANGING 113 - N
1/4" = 1'-0"

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A602

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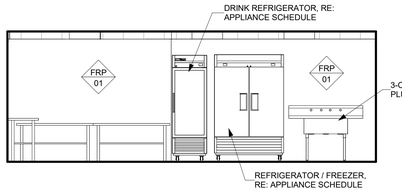
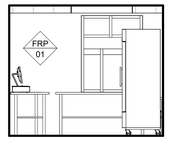
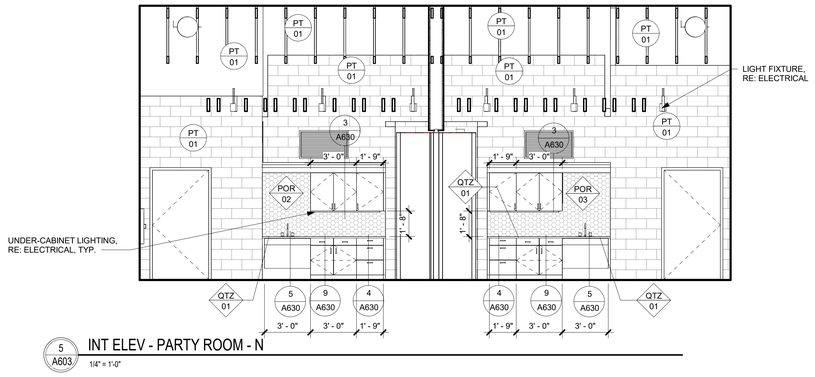


8 A603 INT ELEV - CONCESSIONS - W
1/4" = 1'-0"

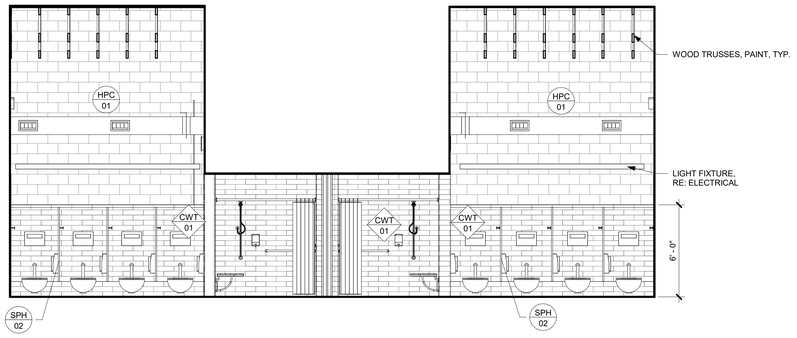


7 A603 INT ELEV - CONCESSIONS - S
1/4" = 1'-0"

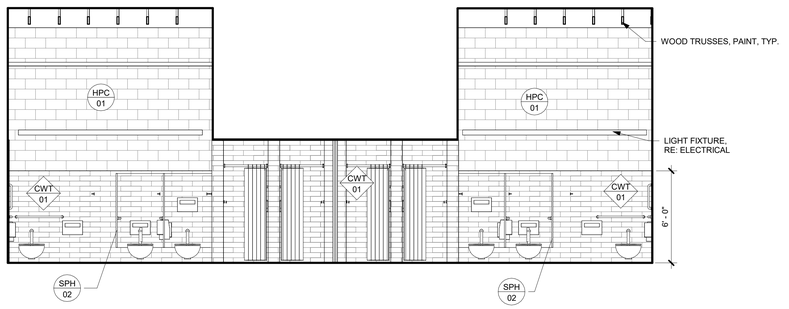
6 A603 INT ELEV - CONCESSIONS - E
1/4" = 1'-0"



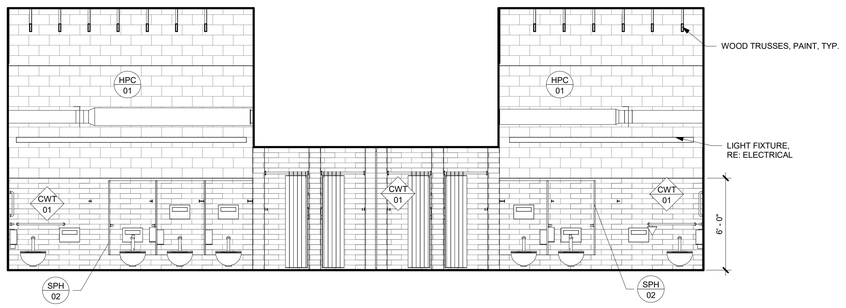
5 A603 INT ELEV - PARTY ROOM - N
1/4" = 1'-0"



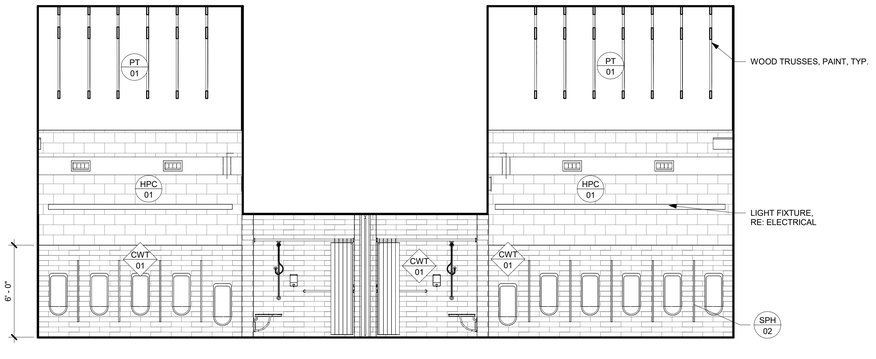
4 A603 INT ELEV - WOMENS RR - W
1/4" = 1'-0"



3 A603 INT ELEV - WOMENS RR - E
1/4" = 1'-0"



2 A603 INT ELEV - MENS RR - W
1/4" = 1'-0"



1 A603 INT ELEV - MENS RR - E
1/4" = 1'-0"

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	100% CDS
Date	01.24.2025

INTERIOR ELEVATIONS - BATH HOUSE & FACILITIES

A603

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG. IF IT IS NOT, ADJUST PRINT SCALE ACCORDINGLY.
IF NOT TO SCALE
IF PAPER SIZES ARE DIFFERENT
THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, LABELED C, M, Y, AND K.

File Location: T:\Projects\2023\23030_Chico Aquatic and Recreation Facility\23030_WORKING\AUTOCAD\SHEETS\GN002 OVERALL PLAN / SAVE DATE: 3/5/2024 4:18 PM BY: jhesterdido / PLOT DATE: 1/20/2023 2:45 PM BY: Jin He-Candido
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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE PLOTTING. ADJUST ACCORDINGLY.

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, WITH CONTRAST TO MATCH.

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to paper size, use [illegible]
to scale and adjust [illegible]

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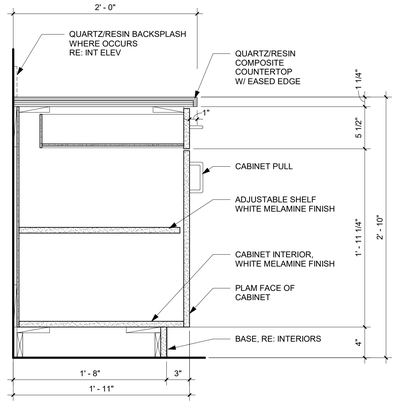
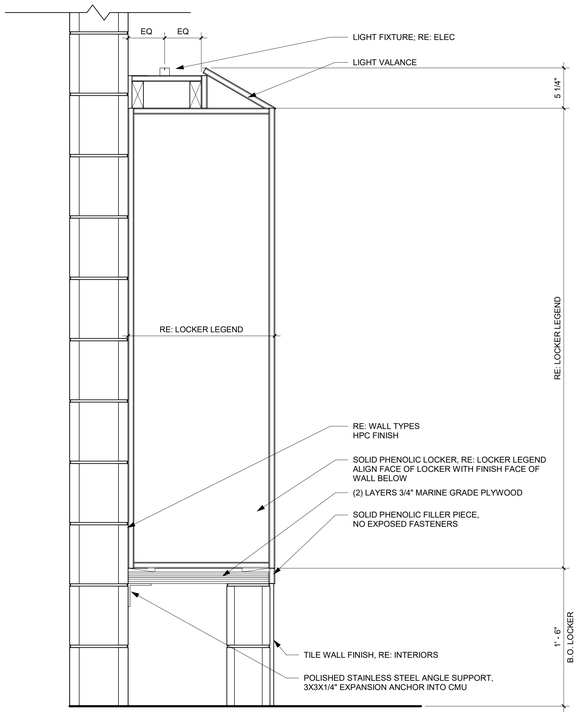


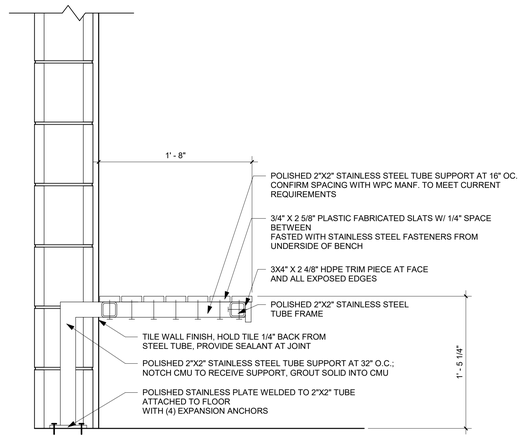
9 A630 DTL - MILLWORK - BASE CAB W/ DRAWER

1 1/2" = 1'-0"



6 A630 DTL - MILLWORK - LOCKER

1 1/2" = 1'-0"



8 A630 DTL - MILLWORK - BENCH

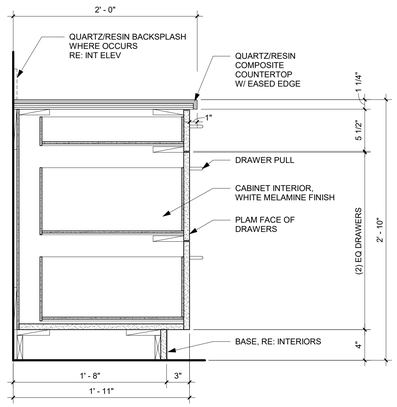
1 1/2" = 1'-0"

7 A630 DTL - MILLWORK - BASE CAB

1 1/2" = 1'-0"

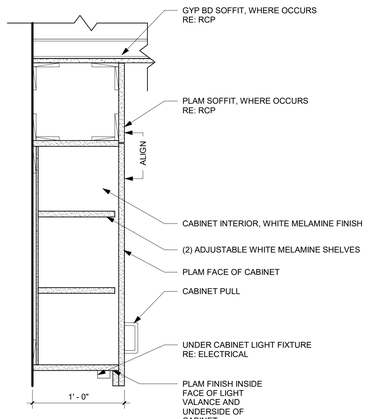
5 A630 DTL - MILLWORK - SINK W/ VALANCE AT CMU WALL

1 1/2" = 1'-0"



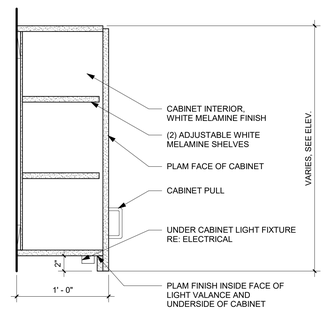
4 A630 DTL - MILLWORK - BASE DRAWERS

1 1/2" = 1'-0"



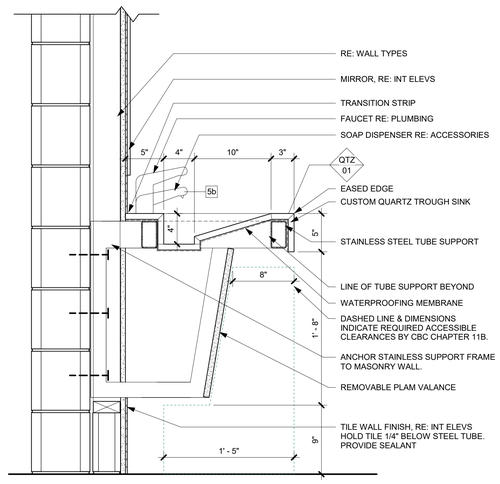
3 A630 DTL - MILLWORK - UPPER W/ SOFFIT

1 1/2" = 1'-0"



2 A630 DTL - MILLWORK - UPPER

1 1/2" = 1'-0"



1 A630 DTL - MILLWORK - TROUGH SINK

1 1/2" = 1'-0"

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CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	100% CDS
Date	01.24.2025

GENERAL MILLWORK DETAILS

A630

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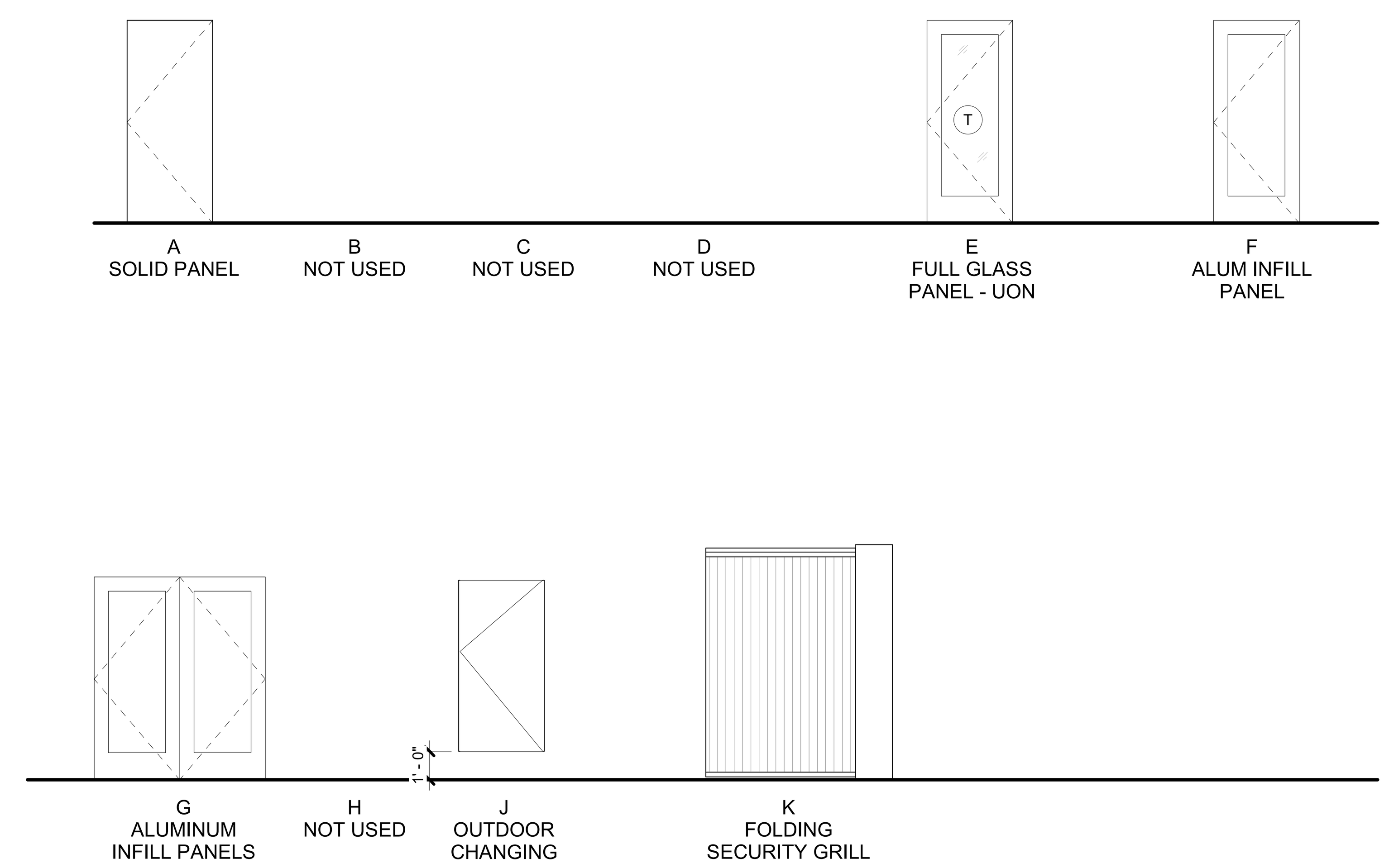
Door Schedule - Bathhouse/Facilities																
Door Number	Room Name	Door				Door	Frame						Fire Rating	Function	Set Number	Comments
		Size		Type	Material	Finish	Type	Material	Finish	Details						
		Width	Height							Head	Jamb	Threshold				
100	LIFEGUARDS	3' - 0"	7' - 2"	E	AL	FACT-F	1	AL	FACT-F	9/A715	5/A715	3/A720		OFFICE		
101	LIFEGUARD BREAKROOM	3' - 0"	7' - 2"	E	AL	FACT-F	1	AL	FACT-F	9/A715	5/A715	3/A720		OFFICE		
102	AQUATICS OFFICE	3' - 0"	7' - 2"	E	AL	FACT-F	1	AL	FACT-F	9/A715	5/A715	3/A720		OFFICE		
103	JANITORIAL STORAGE	3' - 0"	7' - 2"	F	AL	FACT-F	1	AL	FACT-F	9/A715	5/A715	3/A720		STORAGE		
104	SWIM TEAM LEASED OFFICE	3' - 0"	7' - 2"	E	AL	FACT-F	1	AL	FACT-F	9/A715	5/A715	3/A720		OFFICE		
105	MEN'S RM	3' - 0"	7' - 2"	F	AL	FACT-F	1	AL	FACT-F	11/A715	7/A715	3/A720		PUSH/PULL		
106	WOMEN'S RM	3' - 0"	7' - 2"	F	AL	FACT-F	1	AL	FACT-F	11/A715	7/A715	3/A720		PUSH/PULL		
107	MEN'S SHOWERS	5' - 3"	8' - 0"	K	AL	FACT-F	-	-	-	9/A701	1/A701	-		-		
108	WOMEN'S SHOWERS	4' - 8"	9' - 0"	K	AL	FACT-F	-	-	-	9/A701	1/A701	-		-		
109	MEN'S RM	3' - 0"	7' - 2"	F	AL	FACT-F	1	AL	FACT-F	11/A715	7/A715	3/A720		PUSH/PULL		
110	WOMEN'S RM	3' - 0"	7' - 2"	F	AL	FACT-F	1	AL	FACT-F	11/A715	7/A715	3/A720		PUSH/PULL		
111	CONCESSIONS	3' - 0"	7' - 2"	F	AL	FACT-F	1	AL	FACT-F	12/A715	8/A715	3/A720		OFFICE		
112	STORAGE	3' - 0"	7' - 2"	A	HM	PT	1	HM	PT	4/A701	5/A701	-		STORAGE		
113	FAMILY CHANGING	3' - 0"	7' - 2"	F	AL	FACT-F	1	AL	FACT-F	9/A715	5/A715	3/A720		OCCUPANCY		
114	FAMILY CHANGING	3' - 0"	7' - 2"	F	AL	FACT-F	1	AL	FACT-F	9/A715	5/A715	3/A720		OCCUPANCY		
115	MECH. ROOM	3' - 0"	7' - 2"	F	AL	FACT-F	1	AL	FACT-F	9/A715	5/A715	3/A720		STORAGE		
116	FAMILY CHANGING	3' - 0"	7' - 2"	F	AL	FACT-F	1	AL	FACT-F	9/A715	5/A715	3/A720		OCCUPANCY		
117	ADULT CHANGING	3' - 0"	7' - 2"	F	AL	FACT-F	1	AL	FACT-F	9/A715	5/A715	3/A720		OCCUPANCY		
118	JANITORIAL STOR	3' - 0"	7' - 2"	F	AL	FACT-F	1	AL	FACT-F	9/A715	5/A701	3/A720		STORAGE		
119	CLASSROOM / PARTY ROOM	3' - 0"	7' - 2"	E	AL	FACT-F	RE: OPENING TYPES	AL	FACT-F	11/A715	7/A715	3/A720		PANIC		
120	CLASSROOM / PARTY ROOM	3' - 0"	7' - 2"	E	AL	FACT-F	RE: OPENING TYPES	AL	FACT-F	11/A715	7/A715	3/A720		PANIC		
121A	STORAGE	3' - 8"	7' - 2"	A	HM	PT	1	HM	PT	4/A701	5/A701	-		STORAGE		
121B	STORAGE	3' - 8"	7' - 2"	A	HM	PT	1	HM	PT	4/A701	5/A701	-		STORAGE		
122A	TICKETING	3' - 0"	7' - 2"	E	AL	FACT-F	1	AL	FACT-F	12/A715	8/A715	3/A720		OFFICE		
122B	ADMIN. OFFICE	3' - 0"	7' - 2"	E	AL	FACT-F	1	AL	FACT-F	4/A701	5/A701	-		OFFICE		
123	ADMIN. OFFICE	3' - 0"	7' - 2"	E	AL	FACT-F	1	AL	FACT-F	12/A715	8/A715	3/A720		OFFICE		
124	ELEC	3' - 0"	7' - 2"	F	AL	FACT-F	1	AL	FACT-F	4/A701	5/A701	-		PANIC		
125	OUTDOOR CHANGING	3' - 0"	6' - 0"	J	GHM	HPC	1	GHM	HPC	-	1/A801	-		OCCUPANCY		OUTDOOR CHANGING STALLS, RE: A801, FRAME TOP AND BOTTOM INFILLED
126	OUTDOOR CHANGING	3' - 0"	6' - 0"	J	GHM	HPC	1	GHM	HPC	-	1/A801			OCCUPANCY		OUTDOOR CHANGING STALLS, RE: A801, FRAME TOP AND BOTTOM INFILLED
127	OUTDOOR CHANGING	3' - 0"	6' - 0"	J	GHM	HPC	1	GHM	HPC	-	1/A801			OCCUPANCY		OUTDOOR CHANGING STALLS, RE: A801, FRAME TOP AND BOTTOM INFILLED
128	OUTDOOR CHANGING	3' - 0"	6' - 0"	J	GHM	HPC	1	GHM	HPC	-	1/A801			OCCUPANCY		OUTDOOR CHANGING STALLS, RE: A801, FRAME TOP AND BOTTOM INFILLED
150	ROOF ACCESS DOOR	3' - 0"	5' - 6"	B	GHM	HPC	1	GHM	HPC	8/A701	6/A701	7/A701		STORAGE		DOOR PAINTED TO MATCH METAL SIDING

Door Schedule - Mechanical Building																
Door Number	Room Name	Door				Door	Frame						Fire Rating	Function	Set Number	Comments
		Size		Type	Material	Finish	Type	Material	Finish	Details						
		Width	Height							Head	Jamb	Threshold				
200	ELECTRICAL ROOM	3' - 0"	7' - 2"	F	AL	FACT-F	1	AL	FACT-F	2/A701	3/A701		45 MINS	PANIC		
201A	POOL EQUIPMENT ROOM	6' - 0"	7' - 2"	G	AL	FACT-F	1	AL	FACT-F	11/A715	7/A715	3/A720		PANIC		
201B	POOL EQUIPMENT ROOM	3' - 0"	7' - 2"	E	AL	FACT-F	1	AL	FACT-F	11/A715	7/A715	3/A720		PANIC		
202	POOL EQUIPMENT STORAGE	6' - 0"	7' - 2"	G	AL	FACT-F	1	AL	FACT-F	11/A715	7/A715	3/A720		STORAGE		
203	CHEM ROOM 1	6' - 0"	7' - 2"	G	AL	FACT-F	1	AL	FACT-F	11/A715	7/A715	3/A720		PANIC		
204	CHEM ROOM 2	6' - 4"	7' - 2"	G	AL	FACT-F	1	AL	FACT-F	11/A715	7/A715	3/A720		PANIC		

DOOR SCHEDULE ABBREVIATIONS
ALUM/AL: ALUMINUM
FACT-F: FACTORY FINISH
FBGL: FIBERGLASS
GHM: GALVANIZED HOLLOW METAL
HM: HOLLOW METAL
NA: NOT APPLICABLE
PT: PAINT
ST: STAIN
STL: STEEL
S-STL: STAINLESS STEEL
WD: WOOD
DP: DECORATIVE PANEL
GL: GLAZING

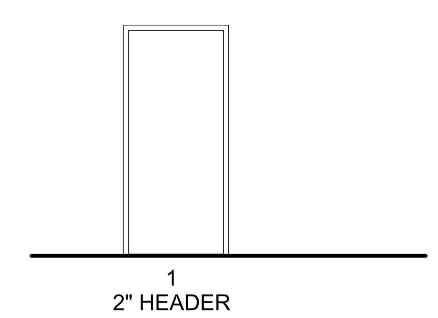
DOOR TYPES LEGEND

(T) - TEMPERED GLAZING

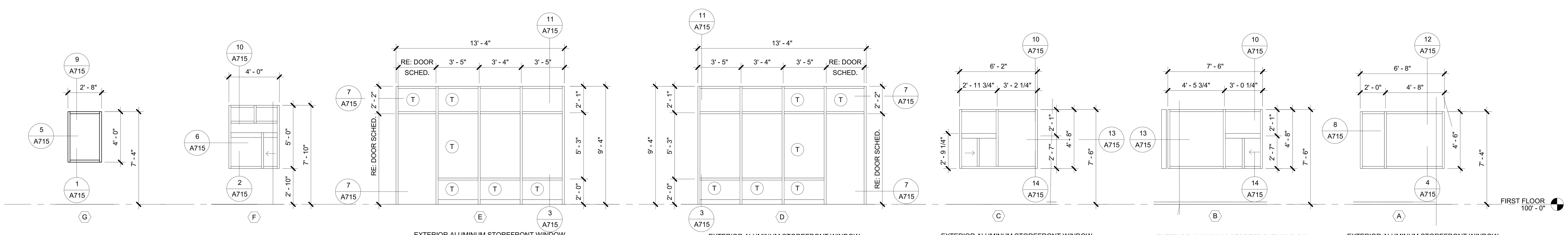


NOTE: ALL GLAZING IN DOORS TO BE TEMPERED U.O.N.

DOOR TYPES
1/4" = 1'-0"



FRAME TYPES
1/4" = 1'-0"



G: EXTERIOR ALUMINUM STOREFRONT WINDOW
ANNODIZED ALUM FRAME - TBD
4 1/2" X 2" FRAME, TYP
1" INSULATED GLAZING UNIT

F: SLIDING TRANSACTION WINDOW WITH AIR CURTAIN
ANNODIZED ALUM FRAME - TBD
1" INSULATED GLAZING UNIT

E: EXTERIOR ALUMINUM STOREFRONT WINDOW
ANNODIZED ALUM FRAME - TBD
4 1/2" X 2" FRAME, TYP
1" INSULATED GLAZING UNIT

D: EXTERIOR ALUMINUM STOREFRONT WINDOW
ANNODIZED ALUM FRAME - TBD
4 1/2" X 2" FRAME, TYP
1" INSULATED GLAZING UNIT

C: EXTERIOR ALUMINUM STOREFRONT WINDOW
PLUS SLIDEING TRANSACTION WINDOW
ANNODIZED ALUM FRAME - TBD
4 1/2" X 2" FRAME, TYP
1" INSULATED GLAZING UNIT

B: EXTERIOR ALUMINUM STOREFRONT WINDOW
PLUS SLIDEING TRANSACTION WINDOW
ANNODIZED ALUM FRAME - TBD
4 1/2" X 2" FRAME, TYP
1" INSULATED GLAZING UNIT

A: EXTERIOR ALUMINUM STOREFRONT WINDOW
ANNODIZED ALUM FRAME - TBD
4 1/2" X 2" FRAME, TYP
1" INSULATED GLAZING UNIT

WINDOW TYPE GENERAL NOTES:

1. SEE DOOR SCHEDULE FOR DOOR TYPES WITHIN WINDOW ASSEMBLIES
2. FIELD VERIFY ALL DIMENSIONS.
3. DIMENSIONS ARE TO THE OUTSIDE FACE OF THE OUTSIDE MULLIONS AND TO THE CENTERLINE OF THE INSIDE MULLIONS, TYP UON.
4. NOTIFY ARCHITECT PRIOR TO BID IF FRAMING MEMBER SIZES NEED TO BE REVISED
5. WINDOW TYPE MAY OCCUR IN VARIOUS WALL TYPES, SEE PLAN FOR LOCATIONS
6. ALL BRAKE METAL WITHIN STOREFRONT/CURTAINWALL ASSEMBLIES TO MATCH STOREFRONT/CURTAINWALL FINISH UON.
7. PROVIDE TEMPERED/SAFETY GLAZING AS REQUIRED BY CODE NOT LIMITED BY LOCATIONS IDENTIFIED.
8. INSULATED GLASS UNITS AT ALL EXTERIOR GLAZING, UON
9. GLAZING THICKNESS AND FRAME TYPES TO BE CONSISTENT WITHIN EACH WINDOW TYPE.
10. ANY BOTTOM MULLIONS ON THE FINISH FLOOR SHALL BE 4" TALL UON.
11. REFER TO FINISH PLAN FOR INDICATION OF WINDOW SHADES AT WINDOWS

GLAZING LEGEND

(T) DENOTES TEMPERED/SAFETY GLASS

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CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	100% CDS
Date	01.24.2025

DOOR SCHEDULES AND DOOR AND WINDOW TYPES

A700

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plot to .pdf in color for paper plots, use black & white whenever possible to save printing costs
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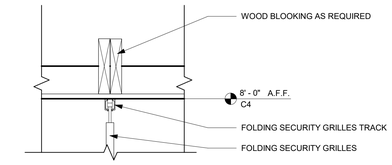
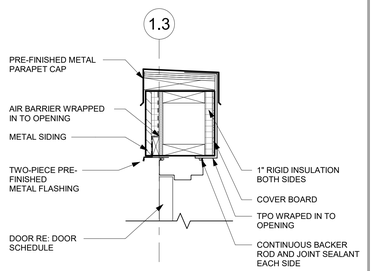
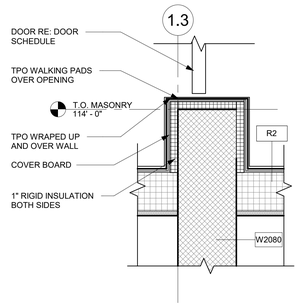
to paper size, use scale
to scale, use scale factor



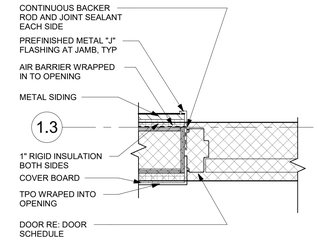
9 A701 DOOR DETAIL - SECURITY GRILLES HEAD
1 1/2" = 1'-0"



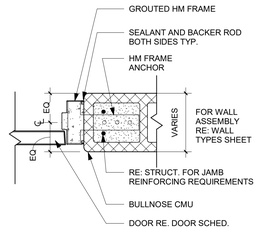
8 A701 DOOR DTL - ROOF ACCESS HEAD
1 1/2" = 1'-0"



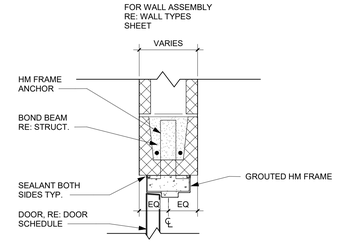
7 A701 DOOR DTL - ROOF ACCESS THRESHOLD
1 1/2" = 1'-0"



6 A701 DOOR DTL - ROOF ACCESS JAMB
1 1/2" = 1'-0"



5 A701 INT. HM DOOR JAMB @ CMU
1 1/2" = 1'-0"



4 A701 INT. HM DOOR HEAD @ CMU
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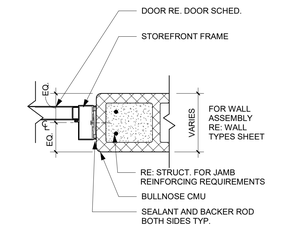
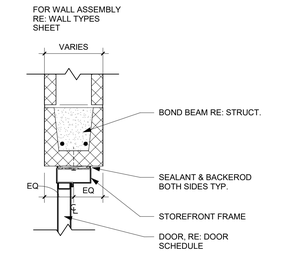
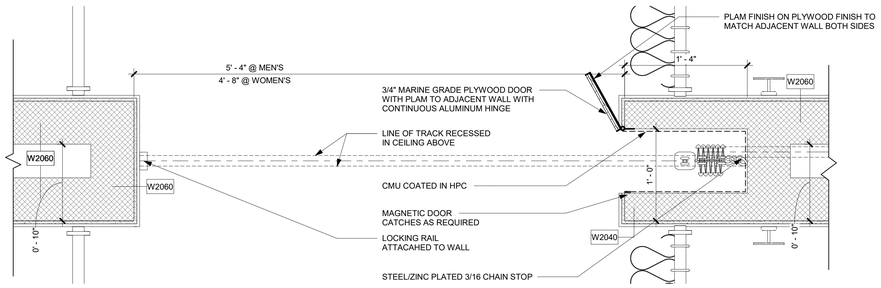


3 A701 INT. ALUM. DOOR JAMB @ CMU
1 1/2" = 1'-0"



2 A701 INT. ALUM DOOR HEAD @ CMU
1 1/2" = 1'-0"



1 A701 DOOR DETAIL - SECURITY GRILLES JAMB
1 1/2" = 1'-0"

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BARKER RINKER SEACAT ARCHITECTURE

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	100% CDS
Date	01.24.2025

DOOR DETAILS

A701

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1/22/2025 3:58:50 PM Autodesk Docs://Chico CA Aquatics Center/CARD Aquatic Facility - 2023.010_R24.rvt

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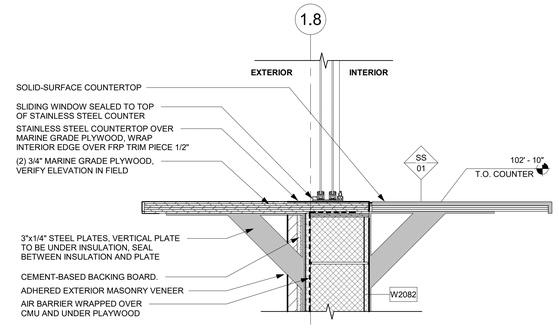
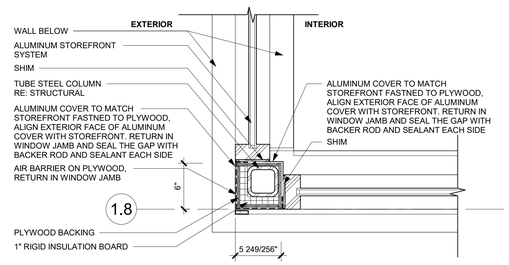
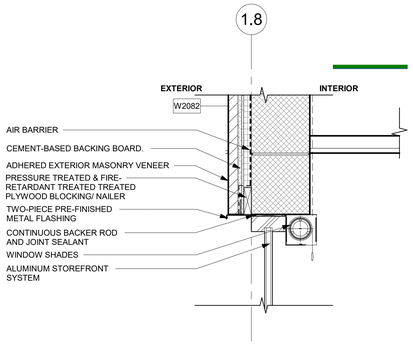
THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, www.sherwin-williams.com/color
ps4 to .pdf = color
tv paper plots, use B/W



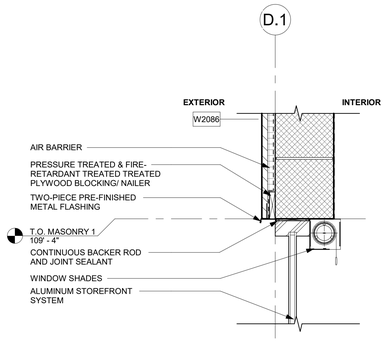
14 A715 EXTERIOR SLIDING WINDOW SILL AT STONE VENEER, TICKETING WINDOW
1 1/2" = 1'-0"



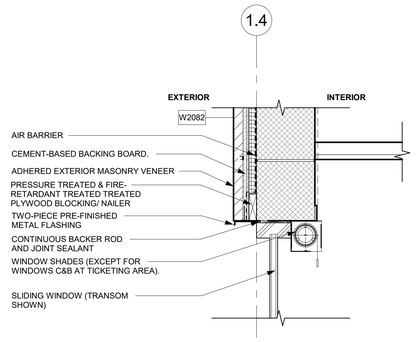
13 A715 EXTERIOR WINDOW JAMB AT CORNER GLAZING
1 1/2" = 1'-0"



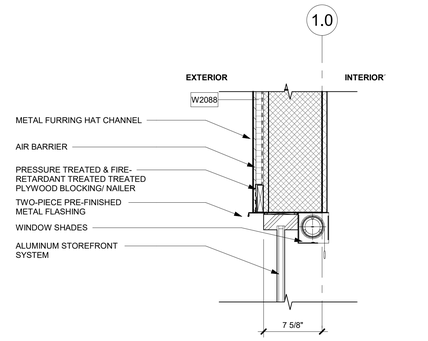
12 A715 EXTERIOR WINDOW HEAD AT STONE VENEER
1 1/2" = 1'-0"



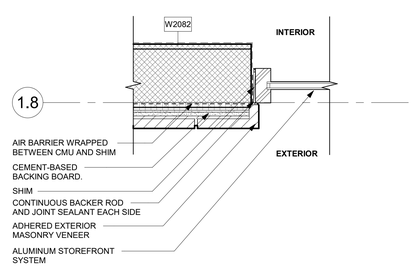
11 A715 EXTERIOR WINDOW HEAD AT METAL BOARD AND BATTEN SIDING
1 1/2" = 1'-0"



10 A715 EXTERIOR SLIDING WINDOW HEAD AT STONE VENEER
1 1/2" = 1'-0"



9 A715 EXTERIOR WINDOW HEAD AT HORIZONTAL METAL SIDING
1 1/2" = 1'-0"



8 A715 EXTERIOR WINDOW JAMB AT STONE VENEER
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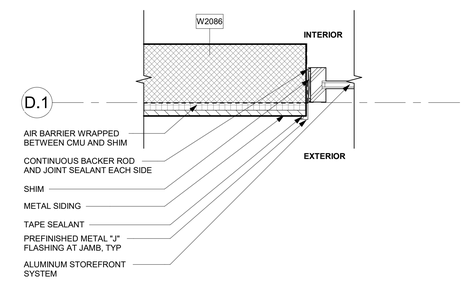
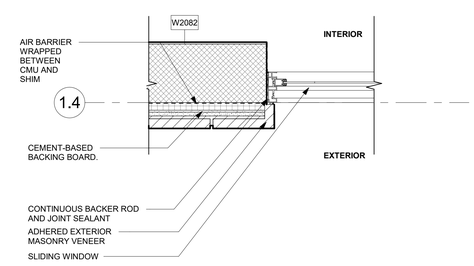
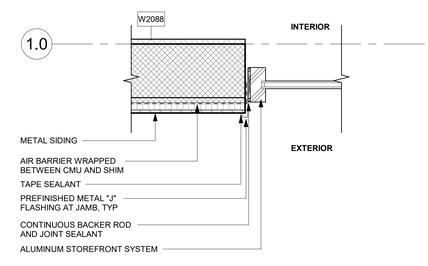


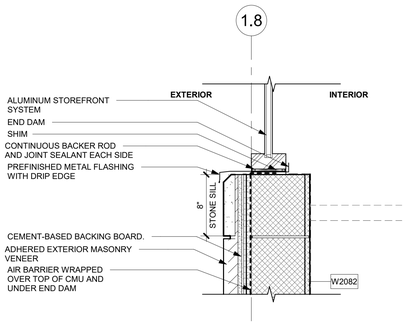
7 A715 EXTERIOR WINDOW JAMB AT METAL BOARD AND BATTEN SIDING
1 1/2" = 1'-0"



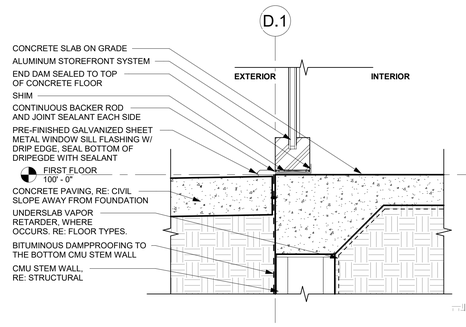
6 A715 EXTERIOR SLIDING WINDOW JAMB AT STONE VENEER
1 1/2" = 1'-0"



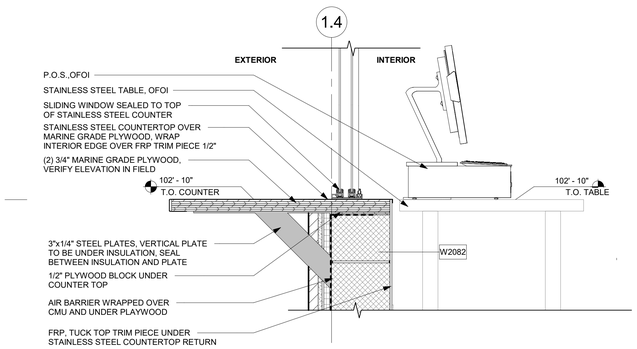
5 A715 EXTERIOR WINDOW JAMB AT HORIZONTAL METAL SIDING
1 1/2" = 1'-0"



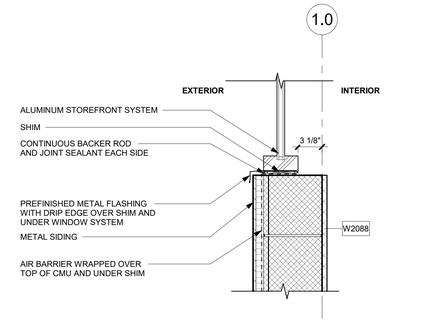
4 A715 EXTERIOR WINDOW SILL AT STONE VENEER
1 1/2" = 1'-0"



3 A715 EXTERIOR WINDOW SILL AT METAL BOARD AND BATTEN SIDING
1 1/2" = 1'-0"



2 A715 EXTERIOR SLIDING WINDOW SILL AT STONE VENEER
1 1/2" = 1'-0"



1 A715 EXTERIOR WINDOW SILL AT HORIZONTAL METAL SIDING
1 1/2" = 1'-0"

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No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	100% CDS
Date	01.24.2025

WINDOW DETAILS

A715

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SET to 'off' if color ink-jet plots, use 'Grayscale' for laser plots, use 'Color' for all others

4 A720 DTL - FOUNDATION AT BATHHOUSE SHOWERS

1 1/2" = 1'-0"

3 A720 DTL - FOUNDATION AT STOREFRONT

1 1/2" = 1'-0"

2 A720 DTL - FOUNDATION AT STONE VENEER

1 1/2" = 1'-0"

1 A720 DTL - FOUNDATION AT METAL SIDING

1 1/2" = 1'-0"

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FOUNDATION DETAILS

A720

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plot to .pdf = color
to paper size, use 24x36

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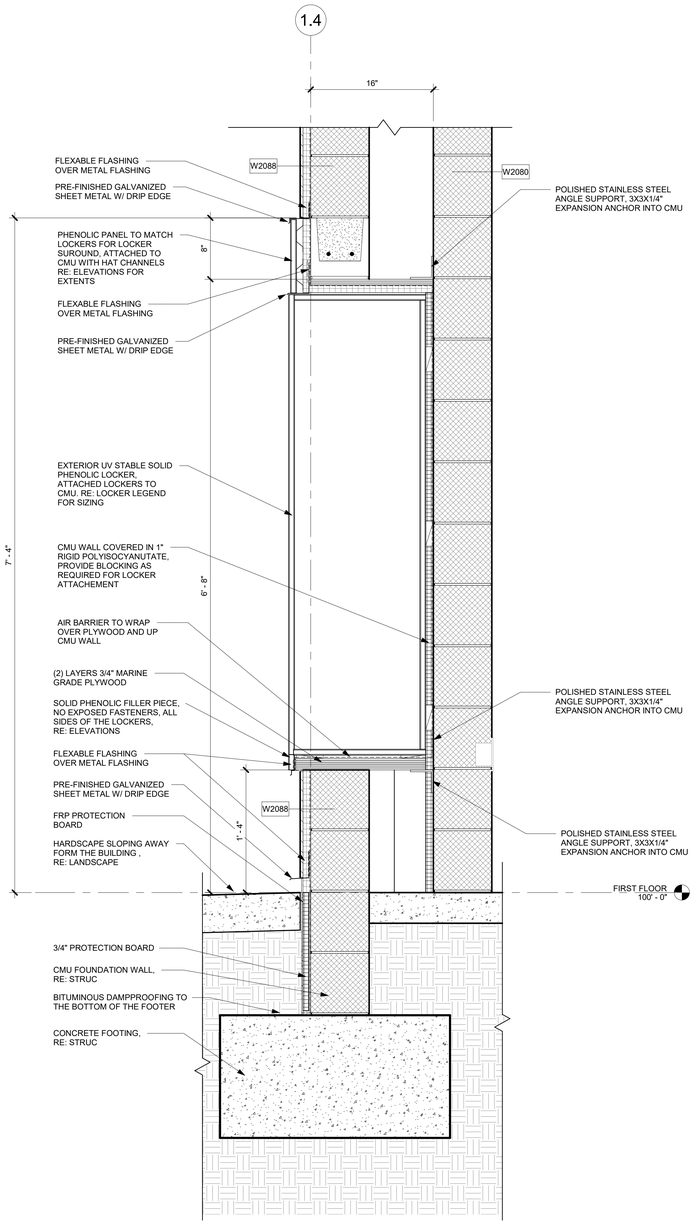
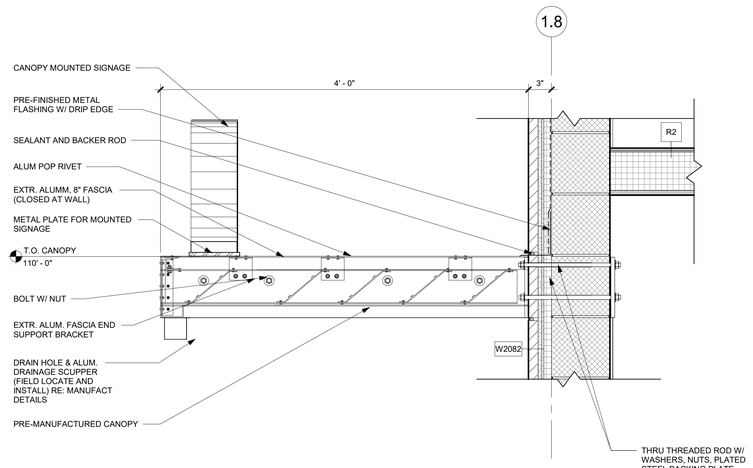
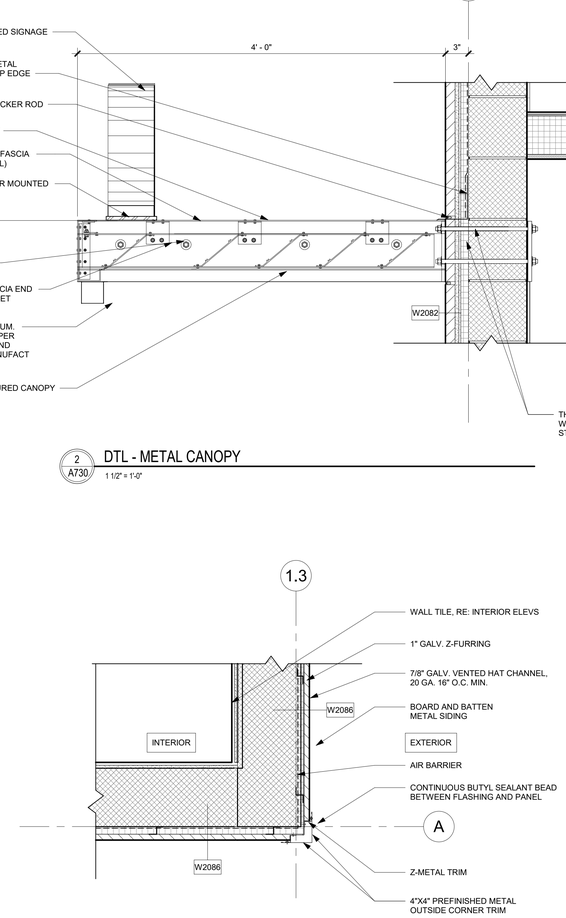


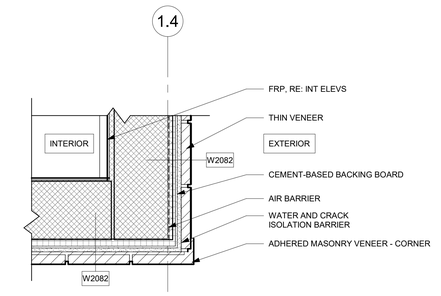
3 A730 DTL - EXTERIOR LOCKERS
1 1/2" = 1'-0"



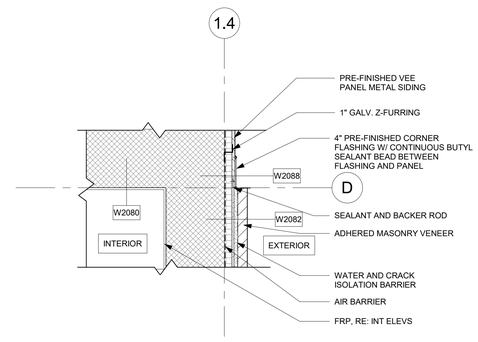
2 A730 DTL - METAL CANOPY
1 1/2" = 1'-0"



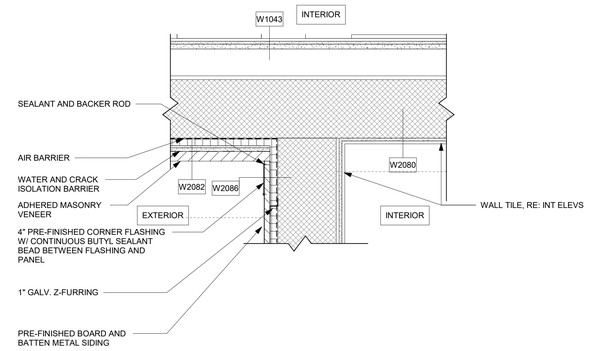
5 A730 DTL - METAL PANEL CORNER
1 1/2" = 1'-0"



6 A730 DTL - STONE VENEER CORNER
1 1/2" = 1'-0"



4 A730 DTL - STONE VENEER TO METAL PANEL TRANSITION
1 1/2" = 1'-0"



1 A730 DTL - BATHHOUSE ALCOVE
1 1/2" = 1'-0"

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CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	100% CDS
Date	01.24.2025

EXTERIOR DETAILS

A730

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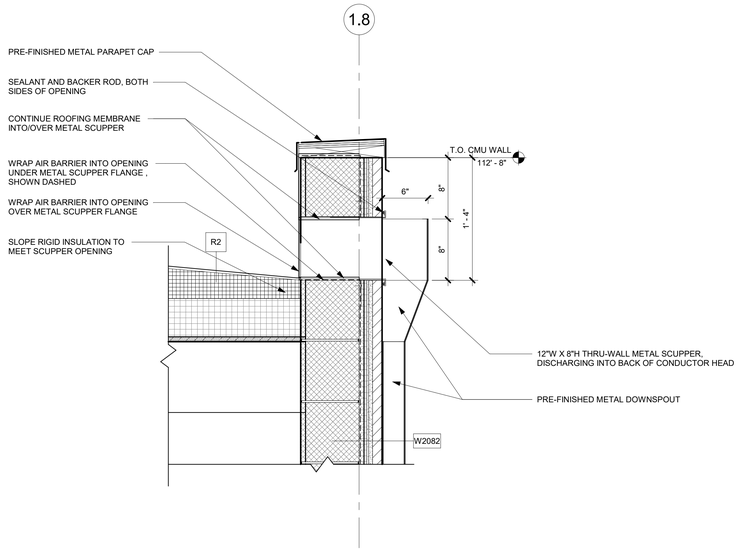
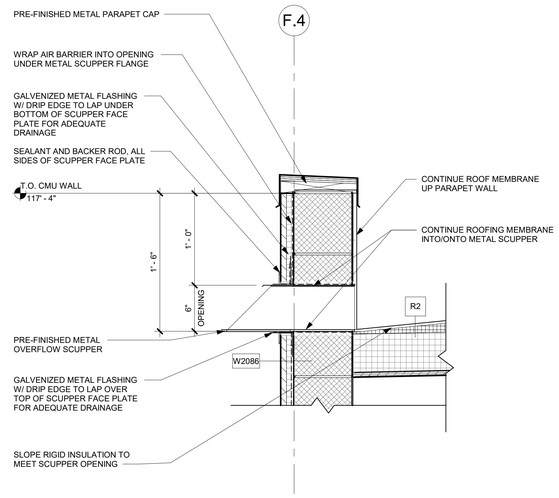


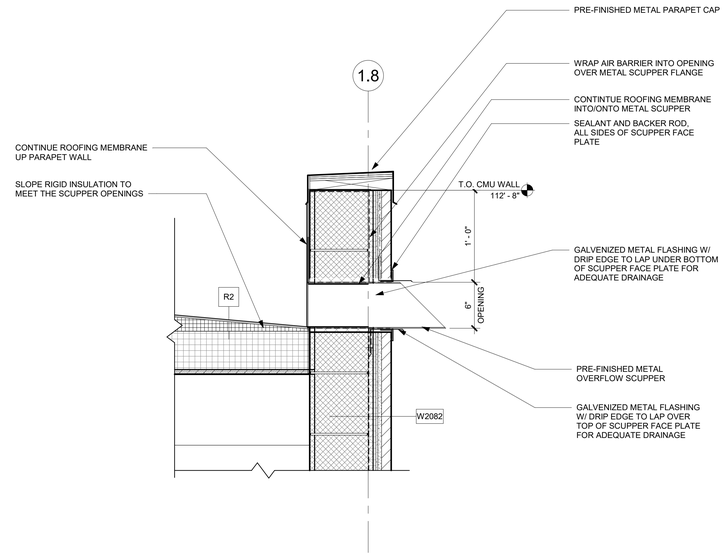
6 A731 DTL - SCUPPER AND DOWNSPOUT AT STONE VENEER

1 1/2" = 1'-0"



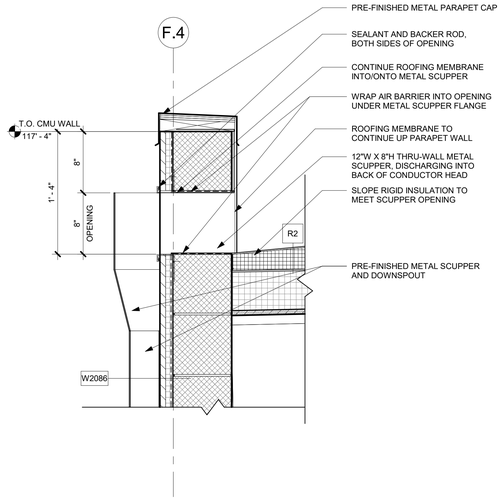
5 A731 DTL - OVERFLOW SCUPPER AT METAL PANEL

1 1/2" = 1'-0"



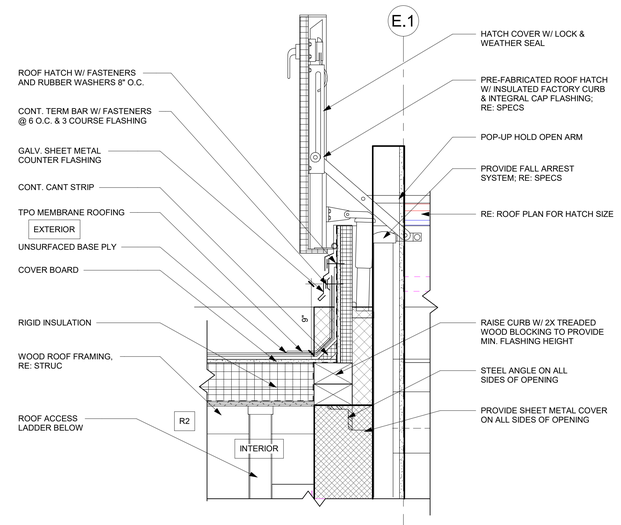
4 A731 DTL - OVERFLOW SCUPPER AT STONE VENEER

1 1/2" = 1'-0"



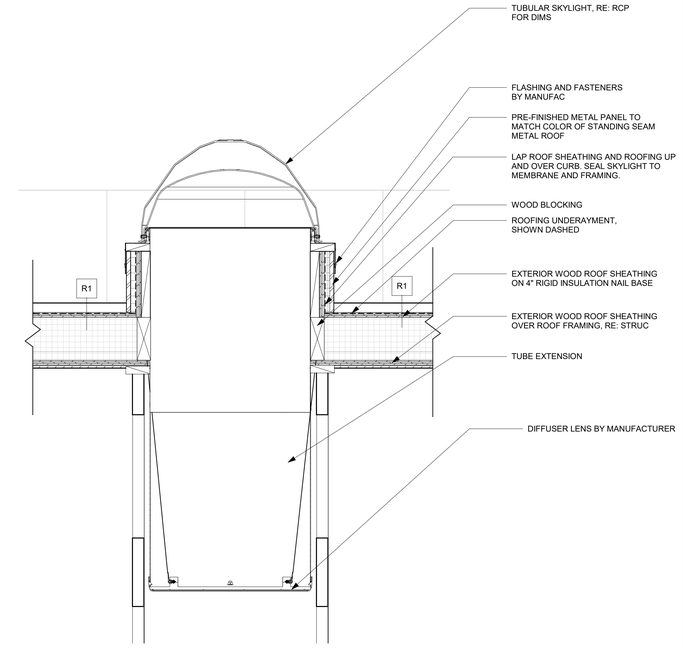
3 A731 DTL - SCUPPER AND DOWNSPOUT AT METAL SIDING

1 1/2" = 1'-0"



2 A731 DTL - ROOF ACCESS HATCH

1 1/2" = 1'-0"



1 A731 DTL - SOLATUBE

1 1/2" = 1'-0"

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BARKER RINKER SEACAT ARCHITECTURE

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	100% CDS
Date	01.24.2025

ROOF DETAILS

A731

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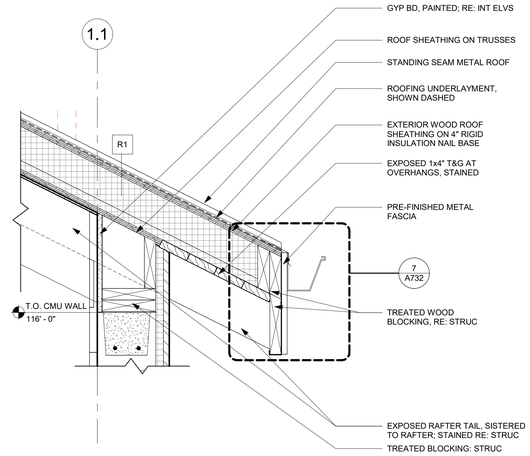
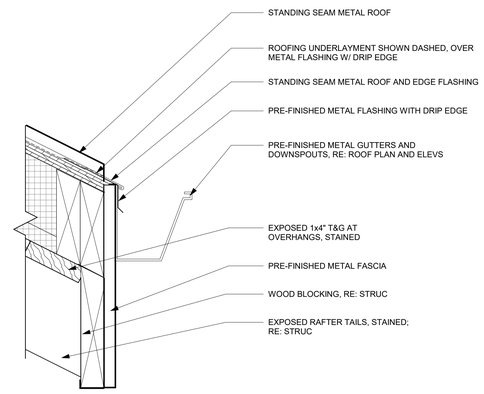
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG. IF THIS LINE APPEARS DIFFERENT, ADJUST PLOT SCALE ACCORDINGLY.
IF NOT 1" LONG, ADJUST PLOT SCALE ACCORDINGLY.
THIS SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, IF NOT, ADJUST PLOT SCALE ACCORDINGLY.

File Location: T:\Projects\2022\23030_Chico Aquatic and Recreation Facility\23030_WORKING\AUTOCAD\SHEETS\GN002 OVERALL PLAN / SAVE DATE: 3/5/2024 4:18 PM BY: jhesterdal\ / PLOT DATE: 1/20/2023 2:45 PM BY: Jin He-Cieslicki
1/22/2025 3:56:59 PM Autodesk Docs://Chico CA Aquatics Center/CARD Aquatic Facility - 2023.010_R24.rvt

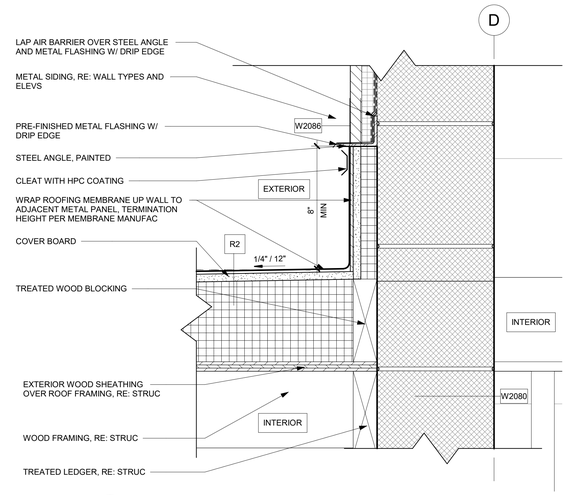
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG. IF THIS LINE IS NOT ONE INCH, ADJUST PLOT SCALE ACCORDINGLY.
THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, ON 24# BOND PAPER.
24# is 24lb paper
Ivy paper sets use 24lb
www.ivypaper.com/templates



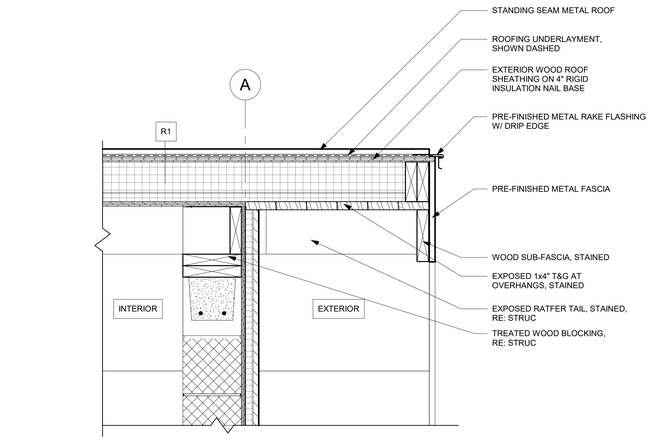
8 A732 DTL - BATHHOUSE RAFTER
1 1/2" = 1'-0"



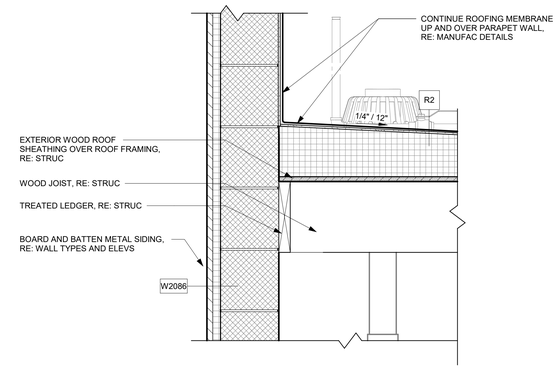
7 A732 DTL - FASCIA, TYP.
3" = 1'-0"



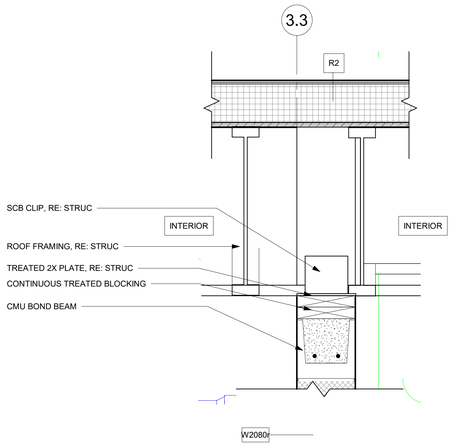
6 A732 DTL - METAL SIDING TO TPO ROOF
3" = 1'-0"



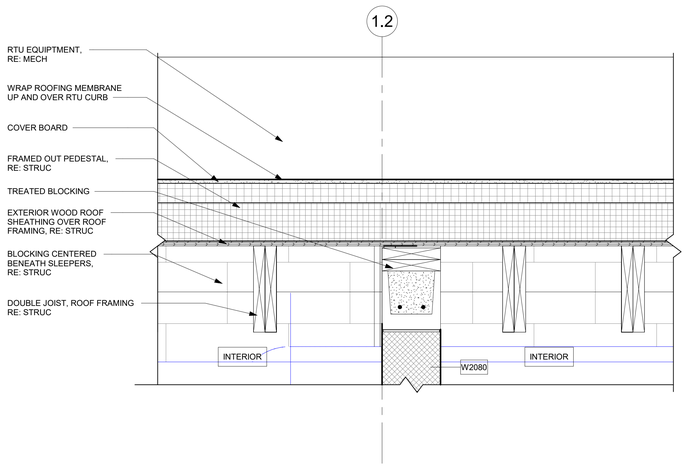
5 A732 DTL - RAKE AT BATHHOUSE
1 1/2" = 1'-0"



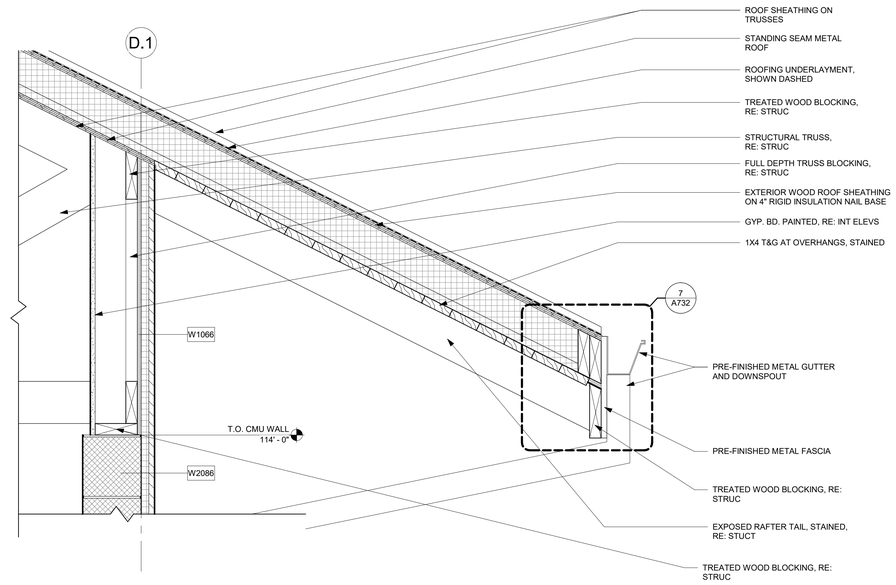
4 A732 DTL - TPO TO CMU
1 1/2" = 1'-0"



3 A732 DTL - MECHANICAL BUILDING BEARING WALL
1 1/2" = 1'-0"



2 A732 DTL -BATHHOUSE BEARING WALL
1 1/2" = 1'-0"



1 A732 DTL - EXPOSED RAFTER TAIL AT PARTY ROOM
1 1/2" = 1'-0"

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Revision Schedule

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1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

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CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	100% CDS
Date	01.24.2025

ROOF DETAILS

A732

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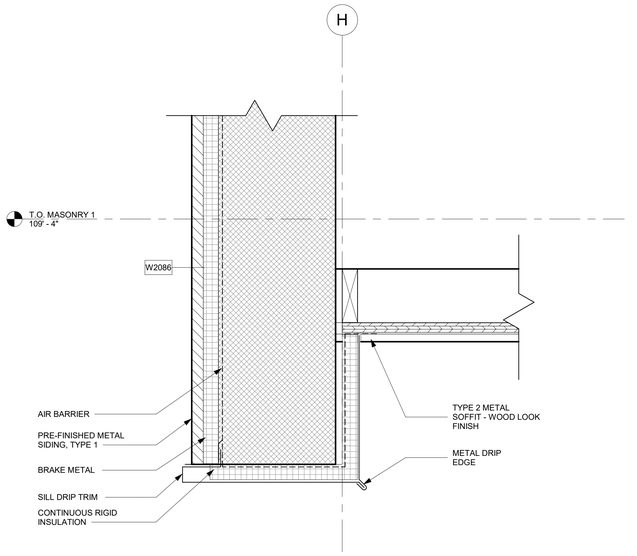
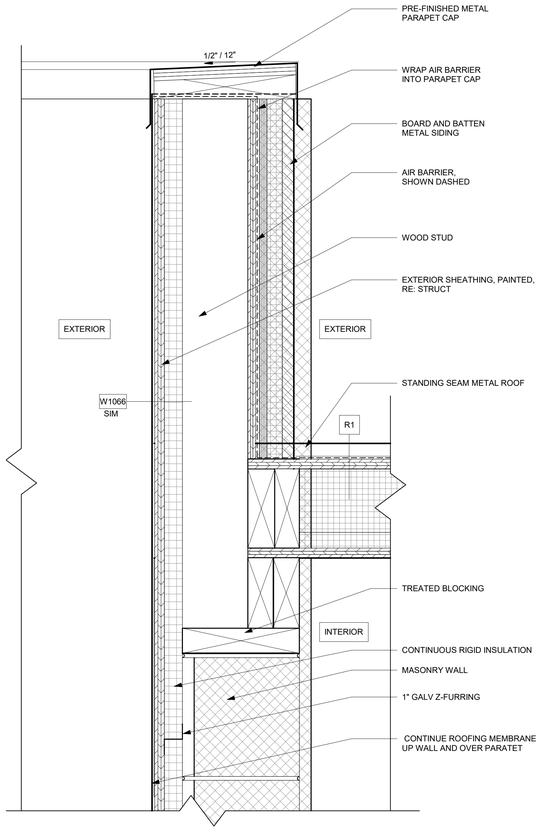
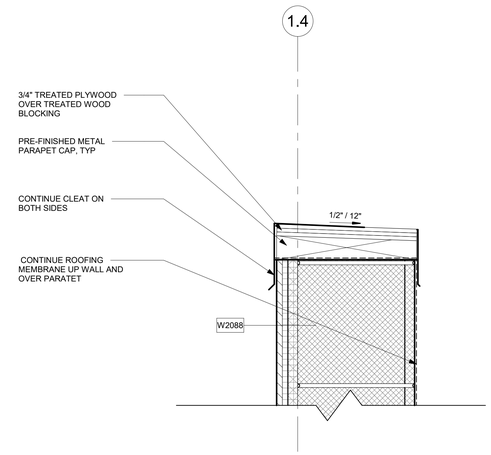
1/22/2025 3:59:02 PM Autodesk Docs://Chico CA Aquatics Center/CARD Aquatic Facility - 2023.010_R24.rvt



3 A733 METAL SOFFIT DETAIL
3" = 1'-0"



2 A733 DTL - BATHHOUSE RTU COVER WALL
3" = 1'-0"



1 A733 DTL - PARAPET CAP
3" = 1'-0"

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ROOF DETAILS

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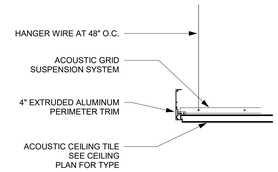
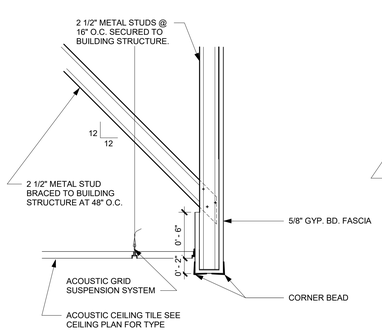
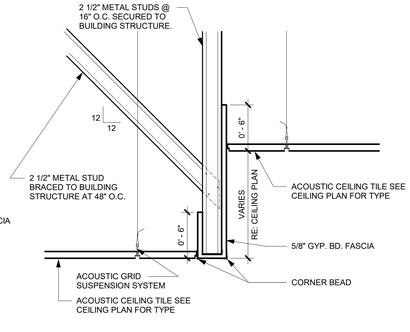


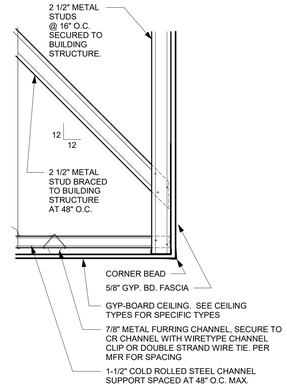
12 / A750 SAT PERIMETER TRIM1
1 1/2" = 1'-0"



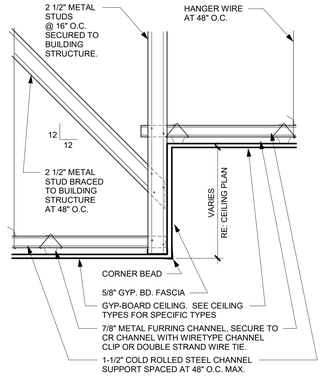
10 / A750 SOFFIT - SAT/GYP-BOARD
1 1/2" = 1'-0"



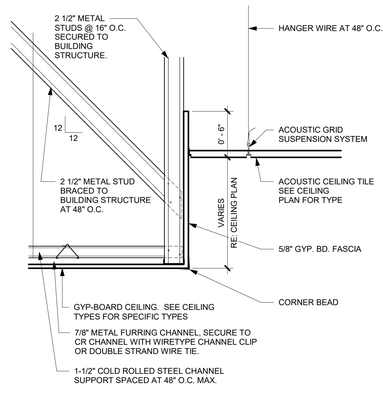
9 / A750 SOFFIT - SAT/GYP-BOARD/SAT
1 1/2" = 1'-0"



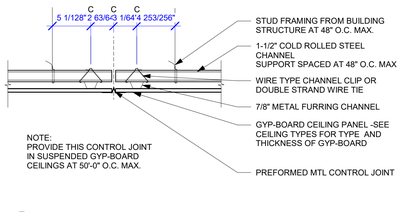
8 / A750 SOFFIT - GYP-BOARD1
1 1/2" = 1'-0"



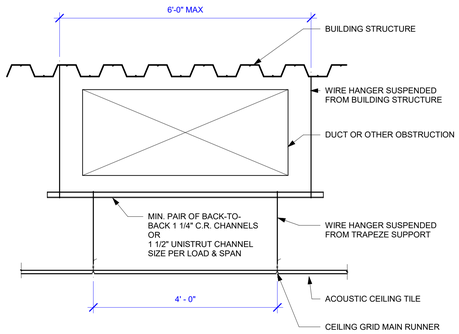
7 / A750 SOFFIT - GYP-BOARD/GYP-BOARD1
1 1/2" = 1'-0"



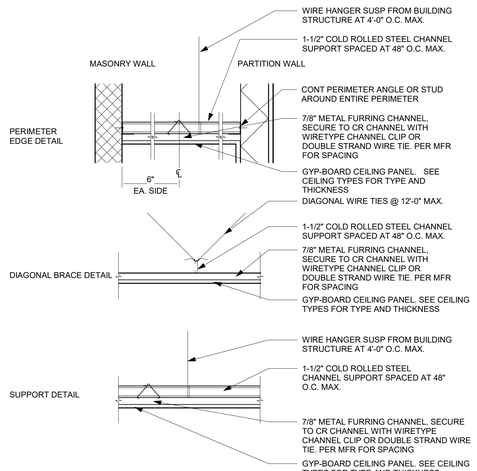
6 / A750 SOFFIT - GYP-BOARD/SAT
1 1/2" = 1'-0"



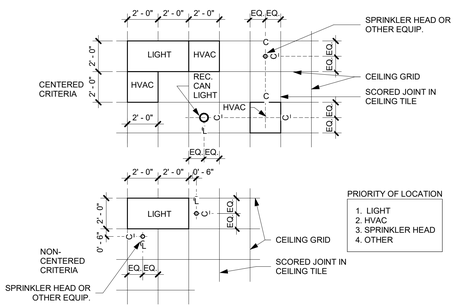
4 / A750 GYP-BOARD CEILING CONTROL JOINT1
1 1/2" = 1'-0"



3 / A750 TRAPEZE @ SUSP. OBSTRUCTION2
3/4" = 1'-0"



2 / A750 SUSPENSION SYSTEM @ GYP-BOARD CEILINGS1
1 1/2" = 1'-0"



NOTE:
MOUNT ALL LIGHTS, DIFFUSERS, SENSORS, SPRINKLERS ETC, ACCORDING TO THE CENTERED DIAGRAM ABOVE. WHEN CENTERED POSITIONING IS NOT POSSIBLE, USE THE NON-CENTERED DIAGRAM ABOVE.

1 / A750 LOCATION CRITERIA2
1/4" = 1'-0"

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Checked By:	

Revisions:

Rev.	Date:

Sheet title:
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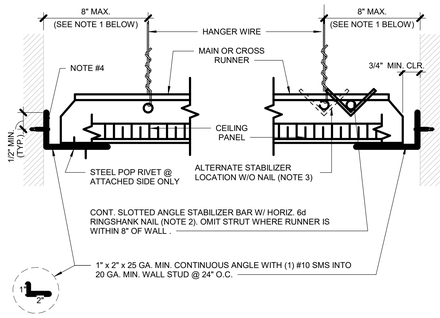
THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, FOR USE ON COLOR DRAWINGS

IF NOT 3" x 3" WHEN PLOTTED, ADJUST SCALE ACCORDINGLY

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG, IF IT'S NOT, ADJUST SCALE ACCORDINGLY

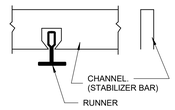


ATTACHED JOINT

FREE JOINT

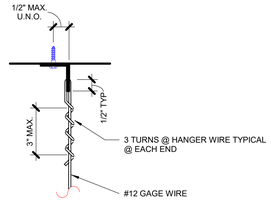
NOTES:

1. PROVIDE #12 GAUGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.
2. NAILS AT ENDS OF HORIZONTAL STABILIZERS ARE TO BE PLACED WITH NAIL HEAD TOWARD CENTER LINE OF SPAN OF STRUT.
3. STABILIZER BAR MAY BE SLOTTED APPROVED ANGLES OR CHANNELS WITH "DIAMOND POINTS" OF SPRING STEEL WHICH SNAP TIGHT TO PREVENT MOVEMENT OF STRUT.
4. (1) #10 SMS TO 20 GA. MIN. WALL STUD @ 24" O.C.

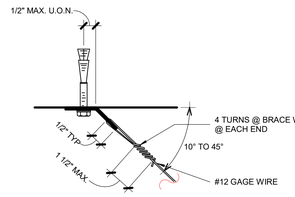


APPROVED STABILIZER
(SEE NOTE 3)

11 / A751 DTL - CEILING PERIMETER
3" = 1'-0" DSA IR 25-2.13

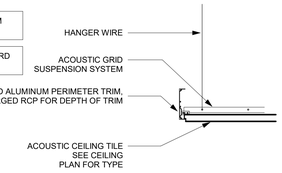


HANGER WIRE

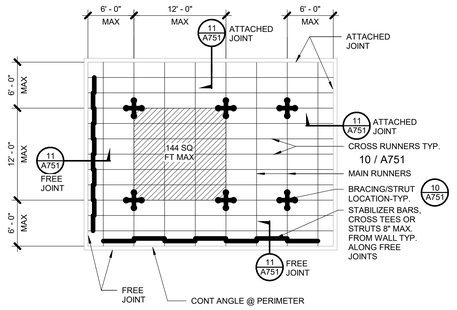


BRACING WIRE

6 / A751 DTL - HANGER AND BRACING WIRE CONNECTION - TYP WIRE TURNS
3" = 1'-0"

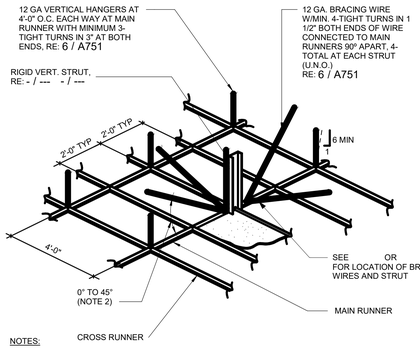


14 / A751 DTL - SAT PERIMETER TRIM - CLOUD
1 1/2" = 1'-0"



NOTE:
BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 144 SQ. FT. MAX. IN ROOMS OVER 144 SQ. FT.

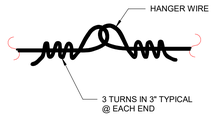
13 / A751 DTL - TYP CEILING PLAN FOR 12 ' X 12' BRACE ASSEMBLY SPACING
1/8" = 1'-0" DSA IR 25-2.13



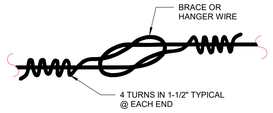
NOTES:

1. STRUTS SHALL NOT REPLACE HANGER WIRES.
2. THE MINIMUM ACCEPTABLE ANGLE IS DETERMINED SUCH THAT THE WIRES DO NOT INTERFERE WITH THE RUNNERS, LIGHT FIXTURES, ETC. AND REMAIN STRAIGHT AND UNOBSTRUCTED.

10 / A751 DTL - SUSPENDED CEILING AND BRACING ASSEMBLY
3" = 1'-0" DSA IR 25-2.13



HANGER WIRE ONLY

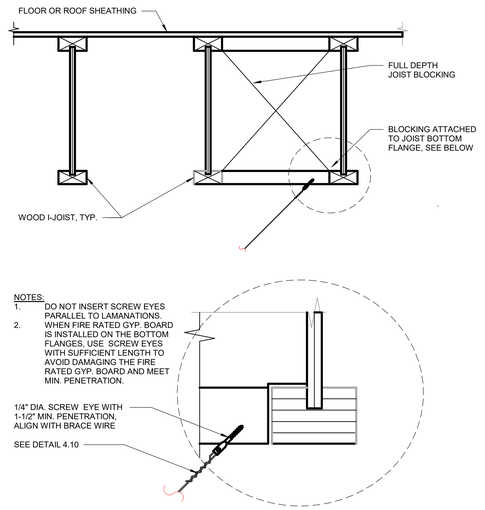


HANGER OR BRACE WIRE

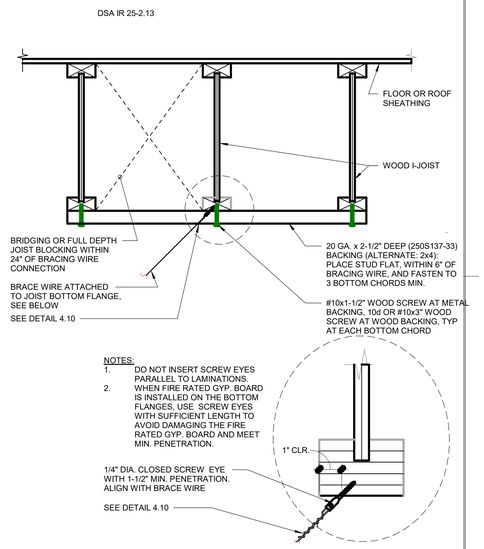
NOTES:

WIRE SPLICES ARE SHOWN LOOSELY TIED FOR ILLUSTRATIVE PURPOSES ONLY AND SHALL BE DRAWN TIGHT TO COMPLETE INSTALLATION WHEN CONSTRUCTED.

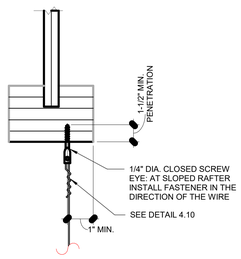
12 / A751 DTL - CEILING WIRE SPLICES
3" = 1'-0" DSA IR 25-2.13



4 / A751 DTL BRACE WIRE CONNECTION TO WOOD I-JOIST CL_4.36.2
1 1/2" = 1'-0"

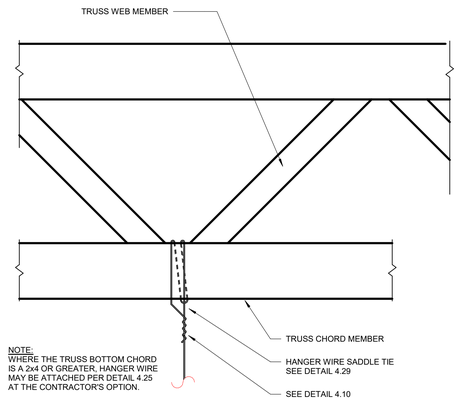


7 / A751 DTL BRACE WIRE CONNECTION TO WOOD I - JOISTCL_4.37.2
1 1/2" = 1'-0"



NOTE:
WHEN FIRE RATED GYP. BOARD IS INSTALLED ON THE BOTTOM FLANGES, USE SCREW EYES W/ SUFFICIENT LENGTH TO AVOID DAMAGING THE FIRE RATED GYP. BOARD AND MEET MIN. PENETRATION.

1 / A751 DTL HANGER WIRE CONNECTION TO WOOD I-JOIST CL_4.26
1 1/2" = 1'-0"



NOTE:
WHERE THE TRUSS BOTTOM CHORD IS A 2x4 OR GREATER, HANGER WIRE MAY BE ATTACHED PER DETAIL 4.25 AT THE CONTRACTOR'S OPTION.

2 / A751 DTL HANGER WIRE CONNECTION TO WOOD CHORD TRUSS CL_4.27
1 1/2" = 1'-0"

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990 S Broadway #222,
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303.455.1366

CIVIL ENGINEER:
ROLLS ANDERSON & ROLLS
115 Yellowstone Dr,
Chico, CA 95973
530.895.1422

BARKER RINKER SEACAT ARCHITECTURE

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	100% CDS
Date	01.24.2025

CEILING DETAILS

A751

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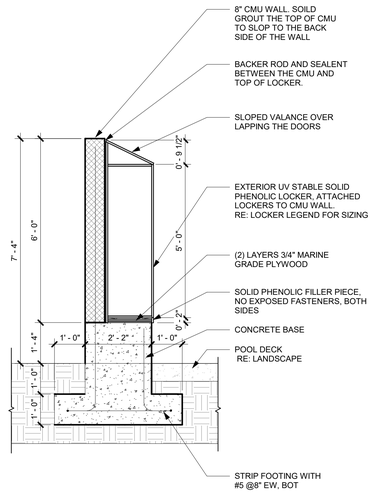
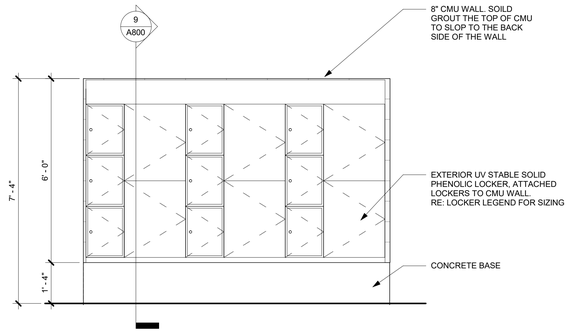
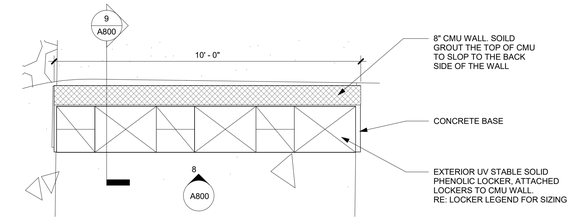


9 A800 SECTION SITE LOCKERS
1/2" = 1'-0"



8 A800 SITE LOCKERS ELEVATION
1/2" = 1'-0"



7 A800 ENLARGED PLAN SITE LOCKERS
1/2" = 1'-0"

6 A800 SECTION SCREEN WALL / BENCH LAP
1/2" = 1'-0"

5 A800 ELEVATION SCREEN WALL / BENCH LAP
1/2" = 1'-0"

4 A800 ENLARGED PLAN SCREEN WALL / BENCH - LAP
1/2" = 1'-0"

3 A800 SECTION SCREEN WALL / BENCH LEASURE
1/2" = 1'-0"

2 A800 ELEVATION SCREEN WALL / BENCH LEASURE
1/2" = 1'-0"

1 A800 ENLARGED PLAN SCREEN WALL / BENCH - LEASURE
1/2" = 1'-0"

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CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	100% CDS
Date	01.24.2025

OUTDOOR SCREEN WALLS / SITE LOCKERS

A800

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IF NOT, SCALE ACCORDINGLY
IF THIS SQUARE ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, THIS IS A COLOR COPY
plot to .pdf in color
for paper size, use 24x36
for more information, see Plotting Guidelines

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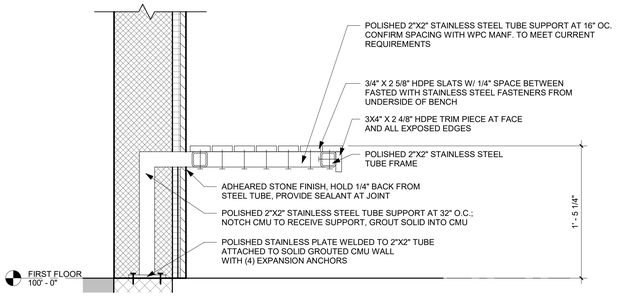
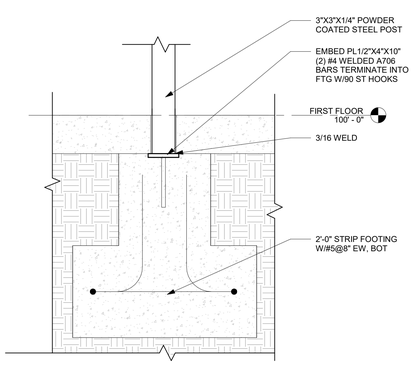


3 A801 DTL - MILLWORK - BENCH EXTERIOR

1 1/2" = 1'-0"

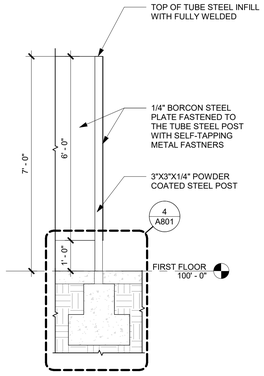
5 A801 EMBED PLAT DETAIL

1" = 1'-0"



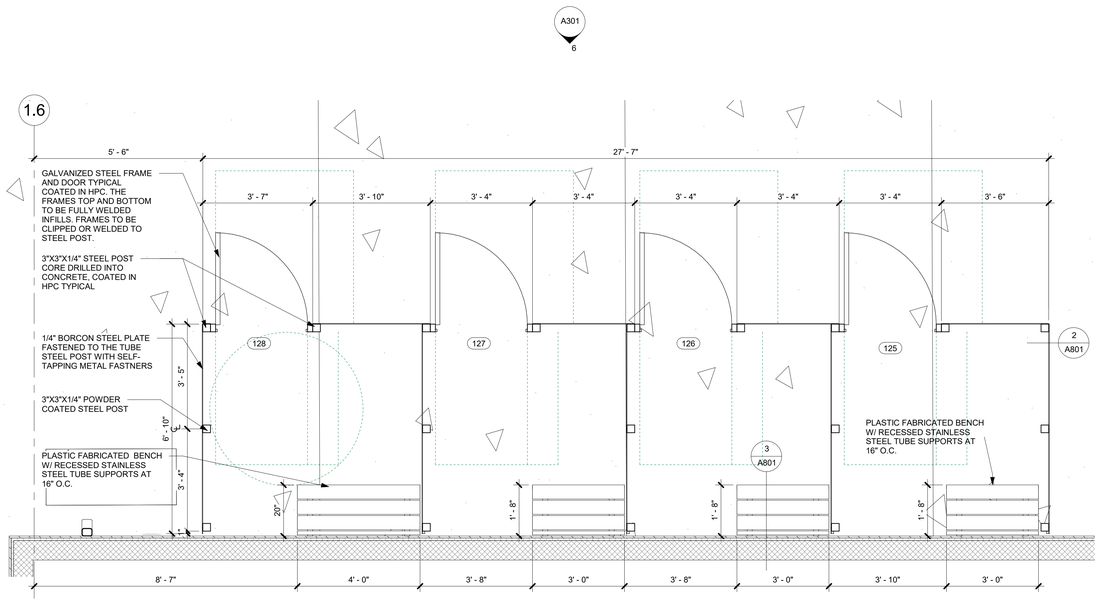
4 A801 DTL. CHANGING POST

1 1/2" = 1'-0"



2 A801 SECTION CHANGING STALLS

1/2" = 1'-0"



1 A801 ENLARGED PLANS OUTDOOR CHANGING STALLS

1/2" = 1'-0"

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Key Plan

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CHICO AREA RECREATION & PARK DISTRICT

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OUTDOOR CHANGING

A801

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plot to .pdf in color for paper plots, use black & white whenever possible to save printing costs

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, IF PRINTED CORRECTLY

(E)	EXISTING	QT	QUARRY TILE
ACY	ACRYLIC PANEL	QT-B	QUARRY TILE BASE
APC	ACRYLIC POLYMER COATING	RAF	RESILIENT ATHLETIC FLOORING
AWP	ACOUSTICAL WALL PANEL	RAIL	RAILING
BB	BULLETIN BOARD	RB	RUBBER BASE
BN	BULLNOSE	RES	RESIN PANEL
BO	BY OWNER	RF	RUBBER FLOOR
CAT	CERAMIC ACCENT TILE	R-NOSING	RUBBER STAIR NOSING
CC	CLEAR COAT	RSCP	REINFORCED SOLID COMPOSITE PARTITIONS
CF	CEILING FINISH	RT	RUBBER TREAD
CG	CORNER GUARDS	R-TILE	RUBBER TILE
CMT	CERAMIC MOSAIC TILE	RUB-STFY	RUBBER SAFETY FLOOR
CMT-B	CERAMIC MOSAIC TILE COVE BASE	SAT	SUSPENDED ACOUSTICAL TILE
CMU	CONCRETE MASONRY UNIT	S-CONC	SEALED CONCRETE
CONC	CONCRETE	SCP	SOLID COMPOSITE PARTITION
CPT	CARPET	SD-CONC	SAND FINISH CONCRETE
CWT	CERAMIC WALL TILE	SDT	STATIC DISSIPATIVE TILE
CWT-B	CERAMIC WALL TILE BASE	SIM	SIMILAR
CWT-BN	CERAMIC WALL TILE BULLNOSE	SLMT	SLATE MOSAIC TILE
DF	DRINKING FOUNTAIN	SLW	SLATWALL
DIV	DIVISION	SPH	SOLID PHENOLIC MATERIAL
EGT	EPOXY GROUT	SPL	SOLID PLASTIC MATERIAL
EMAT	ENTRY MAT	SPWP	SOLID PLASTIC WALL PANEL
EPF	EPOXY POURED FLOORING	SS	SOLID SURFACE
EX	EXPOSED	S-STL	STAINLESS STEEL
FF	FINISH FLOOR	ST	STAIN
FF	FINISH FACE	ST-CONC	STAINED CONCRETE
FF&E	"FURNITURE, FIXTURE AND EQUIPMENT"	STG-FLR	STAGE FLOOR
FF:	FLOOR FINISH	STN	STONE
FFIN	FACTORY FINISH	STN-B	STONE BASE
FRP	FIBER REINFORCED PANEL	STN-T	STONE TILE
GL	GLASS	SW-CONC	SWIRLED CONCRETE
GLT	GLASS TILE	TB	TACK BOARD
GM-GYM	GLASS MESH GYPSUM BOARD	TBD	TO BE DETERMINED
GPH	GRAPHIC	TECP	TECTUM PANEL
GT	GROUT	TEX	TEXTURED WOOD PANEL
GYP BD/GYB	GYPSUM BOARD	TS	TRANSITION STRIP/REDUCER STRIP
HORZ/H	HORIZONTAL	UON	UNLESS OTHERWISE NOTED
HPC	HIGH PERFORMANCE COATING	VCT	VINYL COMPOSITION TILE
LIN	LINOLEUM	VERT/V	VERTICAL
MB	MARKER BOARD	VIF	VERIFY IN FIELD
MCB	METAL COVE BASE	VNR	VENEER
MD	METAL DESK	VPL	VENEER PLASTER
MTL	METAL	VRB	VENTED RUBBER BASE
OF/OI	OWNER FURNISHED / OWNER INSTALLED	V-SAT	VINYL SUSPENDED ACOUSTICAL TILE
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED	VSF	VINYL SHEET FLOOR
OP	OPERABLE PARTITION	VTF	VINYL TILE FLOOR
OTS	OPEN TO STRUCTURE	WB:	WALL BASE
PCP	PAPER COMPOSITE PARTITIONS	WC	WALL COVERING
PATT	PATTERN	WD	WOOD
PAV	PAVER TILE	WDC	WOOD CEILING
P-CONC	POLISHED CONCRETE	WSF	WOOD STRIP FLOORING
PCP	PAPERSTONE PAPER COMPOSITE	WF:	WALL FINISH
PLAM	PLASTIC LAMINATE	WM	WALL MAT
POR	PORCELAIN TILE	WPC	WOOD POLYMER COMPOSITE
POR-B	PORCELAIN TILE BASE	WR-GYP	WATER RESISTANT GYPSUM BOARD
POR-D	PORCELAIN TILE DECORATIVE BOARDER	WT	WINDOW TREATMENT
PT	PAINT	WVP	WOOD VENEER PANELING

4 A900 INTERIOR ABBREVIATIONS
1/4" = 1'-0"

INTERIOR FINISH LEGEND

Tag	Manufacturer	Product Line	Style	Color	Size	Notes	Specification Section
ACP01	Kirei	O Baffles		Duck Egg	96"		09 8430 - Acoustical Wall and Ceiling Units
ACP02	Kirei	O Baffles		Grey	96"		09 8430 - Acoustical Wall and Ceiling Units
ACP03	Kirei	O Baffles		Ivy	96"		09 8430 - Acoustical Wall and Ceiling Units
ACP04	Kirei	O Baffles		Pistachio	96"		09 8430 - Acoustical Wall and Ceiling Units
ACP05	Kirei	O Baffles		Vineyard	96"		09 8430 - Acoustical Wall and Ceiling Units
APC01	STO Corp	Specification F477		To match PT01			09 2513 - Interior Acrylic Polymer Coating System
CONC01			Sealed Trowel and Fine-Broom Finish				03 3500 - Concrete Floor Finishing
CONC02			Sealed Broom Finish				03 3500 - Concrete Floor Finishing
CPT01	Mannington Commercial	Googie	Skyway	Helmetron 13634	24" x 24"	Brick Install	09 6813 - Tile Carpeting
CWT01	Daltile	Color Wheel Linear		Matte Desert Gray	4" x 16"	Running Bond	09 3000 - Tiling
FRP01	Marlite	Symmetrix		White with Grey Grout			06 8316 - FRP Panels
HPC01	Tnemec	RE: Specifications		To match PT01			09 9600 - High-Performance Coatings
HPC02	Tnemec	RE: Specifications		To match PT02			09 9600 - High-Performance Coatings
HPC03	Tnemec	RE: Specifications		To match PT03			09 9600 - High-Performance Coatings
PL01	Wilsonart	Standard Laminate		Sap Walnut			06 4100 - Architectural Wood Casework
PN01	Tangent	Dimensional	Woodgrain	Birch			06 6310 - Plastic Fabricated Benches
POR01	Daltile	Keystone	Square	Suede Gray Speckle	1" x 1"		09 3000 - Tiling
POR02	Daltile	Keystone	Hexagon Solid	Emerald D116	1" x 1"		09 3000 - Tiling
POR03	Daltile	Keystone	Hexagon Solid	Galaxy D023	1" x 1"		09 3000 - Tiling
PT01	Sherwin Williams	RE: Specifications		SW 7004 Snowbound			09 9123 - Interior Painting
PT02	Sherwin Williams	RE: Specifications		SW 6730 Romaine			09 9123 - Interior Painting
PT03	Sherwin Williams	RE: Specifications		SW 6773 Rapture Blue			09 9123 - Interior Painting
QTZ01	Cambria	Quartz		Malvern			12 3600 - Countertops
RB01	Johnsonite	Baseworks		Medium Grey 28	4"		09 6513 - Resilient Base
RF01	Altro	Stronghold	30	Dolphin			09 6500 - Resilient Flooring
RF02	Nora	Norament XP	Trac	5303 Frankincense			09 6500 - Resilient Flooring
SPH01	Summit Lockers	Phenolic Lockers	Black core solid phenolic w/ PLAM finish	To match PL01			10 5129 - Phenolic Lockers
SPH02	Bobrick	Duraline 1082		To match PL01			10 2113 - Phenolic Toilet Compartments
SS01	Corian	Solid Surface		Linen			12 3600 - Countertops
ST01			Stainless Steel				12 3600 - Countertops

Room Finish Schedule

Number	Name	Wall Finish	Floor Finish	Base Finish	Ceiling Finish	Notes
100	LIFEGUARDS	HPC01	CONC02	RB01	--	
101	LIFEGUARD BREAKROOM	HPC01	CONC02	RB01	--	
102	AQUATICS OFFICE	PT01	CONC02	RB01	--	
103	JANITORIAL STORAGE	PT01	CONC01	RB01	--	
104	SWIM TEAM LEASED OFFICE	PT01	CONC02	RB01	--	
105	MEN'S RM	HPC01 / HPC03	POR01	CWT01 / POR03	--	RE: INT. ELEVS
106	WOMEN'S RM	HPC01 / HPC02	POR01	CWT01 / POR02	--	RE: INT. ELEVS
107	MEN'S SHOWERS	HPC01 / HPC03	POR01/POR03	CWT01	APC01	
108	WOMEN'S SHOWERS	HPC01 / HPC02	POR01/POR02	CWT01	APC01	
109	MEN'S RM	HPC01 / HPC03	POR01	CWT01	--	
110	WOMEN'S RM	HPC01 / HPC02	POR01	CWT01	--	
111	CONCESSIONS	FRP01 / PT01	RF01	RF01	C3	
112	STORAGE	PT01	RF01	RF01	--	
113	FAMILY CHANGING	HPC01	POR01	CWT01	APC01	
114	FAMILY CHANGING	HPC01	POR01	CWT01	APC01	
115	MECH. ROOM	PT01	CONC01	RB01	--	
116	FAMILY CHANGING	HPC01	POR01	CWT01	APC01	
117	ADULT CHANGING	HPC01	POR01	CWT01	APC01	
118	JANITORIAL STOR	PT01	CONC01	RB01	--	
119	CLASSROOM / PARTY ROOM	PT01	RF02	RB01	--	HPC03 ON WEST WALL
120	CLASSROOM / PARTY ROOM	PT01	RF02	RB01	--	HPC02 ON EAST WALL
121	STORAGE	PT01	CONC01	RB01	--	
122	TICKETING	PT01	CPT01	RB01	C2	
123	ADMIN. OFFICE	PT01	CPT01	RB01	C2	
124	ELEC	PT01	CONC01	RB01	--	
200	ELECTRICAL ROOM	PT01	CONC01	RB01	--	
201	POOL EQUIPMENT ROOM	HPC01	CONC01	RB01	--	
202	POOL EQUIPMENT STORAGE	HPC01	CONC01	RB01	--	
203	CHEM ROOM 1	HPC01	CONC01	RB01	--	
204	CHEM ROOM 2	HPC01	CONC01	RB01	--	
205	PUMP PIT	HPC01	CONC01	--	--	

INTERIOR FINISH SYMBOLS

X / X — PAINT FINISH INDICATOR, REFERENCE FINISH LEGEND

X / X — FLOOR FINISH INDICATOR, RE: FINISH LEGEND

X / X — FINISH INDICATOR, REFERENCE FINISH LEGEND

FLOOR MATERIAL TRANSITION INDICATOR

CORNER GUARD

5 A600 INTERIOR FINISH SYMBOLS
1/4" = 1'-0"

GENERAL INTERIOR FINISH NOTES:

GENERAL:

1. REFER TO ARCHITECTURAL GENERAL NOTES.
2. REFERENCE ARCHITECTURAL PLANS FOR SUBSTRATE INFORMATION.
3. ALL REQUEST FOR SUBSTITUTIONS FOR SPECIFIED ITEMS SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT PRIOR TO BIDDING WITH ALTERNATIVE PRODUCT INFORMATION AND SAMPLES WILL BE CONSIDERED ONLY IF DEEMED ACCEPTABLE WITH REGARD TO QUALITY, APPEARANCE AND FUNCTION. REFER TO DIVISION 01 OF SPECIFICATIONS, FOR SUBSTITUTIONS REQUIREMENTS.
4. INSTALL ALL MANUFACTURED ITEMS, MATERIALS, AND EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED SPECIFICATIONS. REFER TO SPECIFICATIONS.
5. REFER TO ARCHITECTURAL SPECIFICATIONS FOR ALL SUBMITTAL AND/OR MOCKUP GUIDELINES AND REQUIREMENTS.
6. IN THE EVENT OF AN INCONSISTENCY BETWEEN THE DRAWINGS AND SPECIFICATIONS, OR WITHIN EITHER DOCUMENT, THE CONTRACTOR SHALL SEEK CLARIFICATION OR INTERPRETATION FROM THE ARCHITECT PRIOR TO BIDDING.
7. FOR ITEMS NOT SPECIFIED, ASSUME COLOR SELECTIONS TO BE MADE FROM FULL RANGE OF MANUFACTURE'S STANDARDS INCLUDING PREMIUM COLORS.
8. REFER TO ALL SPECIFICATIONS & INTERIOR DRAWINGS (INCLUDING PLANS, ELEVATIONS, RCP, ENLARGED PLANS & DETAILS, ROOM FINISH SCHEDULE, AND INTERIOR FINISH LEGEND) FOR COMPLETE INTERIORS INFORMATION. REFER TO EXTERIOR ELEVATION SHEETS FOR EXTERIOR MATERIAL LEGEND.
9. *WORK IS NEW, UNLESS NOTED EXISTING OR (E).*

WALLS AND CEILING:

1. ASSUME LEVEL 4 FINISH FOR ALL GYPSUM BOARD PARTITIONS, UON. REFER TO DIV 09 OF SPECIFICATIONS.
2. FILL MASONRY WALLS BEFORE PAINTING. REFER TO DIV 09 OF SPECIFICATIONS.
3. FOR GYP BD REVEALS AND CONTROL JOINTS, REFER TO DIV 09 OF SPECIFICATIONS.
4. REFER TO DIV 09 OF SPECIFICATIONS FOR THE SPECIFIC PAINT SYSTEMS AND DIV 01 FOR VOC REQUIREMENTS.
5. CONTRACTOR TO PROVIDE 8 1/2"X11" PAINT SAMPLES OF ALL SPECIFIED PAINT COLORS IN ALL SHEENS INDICATED FOR APPROVAL BEFORE PROCEEDING WITH THE WORK. REFER TO DIV 09 OF SPECIFICATIONS.

WALLS AND CEILING CONT:

6. PAINT SHALL MATCH SPECIFIED MANUFACTURER COLORS INDICATED ON THE FINISH LEGEND.
7. HPC IS HIGH PERFORMANCE COATING. HPC# IS THE SAME COLOR AS THE LATEX PAINT COLOR AS INDICATED ON LEGEND AS PT#. PROVIDE A DRAW DOWN OF HPC COLORS.
8. APC IS ACRYLIC POLYMER COATING. APC# IS THE SAME COLOR AS THE LATEX PAINT COLOR AS INDICATED ON LEGEND AS PT#. PROVIDE A DRAW DOWN OF APC COLORS.
9. PAINT GLOSS LEVEL REFER TO DIV 09 OF SPECIFICATIONS, FOR PAINT SYSTEMS.

   a. PROVIDE LATEX SATIN/EGGSHELL FINISH AT TYPICAL WALLS.

   b. PROVIDE SEMI-GLOSS, HIGH PERFORMANCE COATING (HPC) IN LOCKER ROOMS AT WALLS, FAMILY CHANGING ROOMS, RESTROOMS WITH SHOWERS & POOL SUPPORT ROOMS.

   c. MECHANICAL, STORAGE, CONCESSIONS/CAFE: SEMI-GLOSS.

   d. TYPICAL WALL PAINT: LATEX SATIN FINISH

   e. TYPICAL GYP. BD. CEILINGS/SOFFITS: LATEX MATTE FINISH

   f. TYPICAL DOORS AND DOOR TRIMS: SEMI-GLOSS

10. FOR PAINT COLOR LOCATIONS SEE INTERIOR ELEVATIONS, FINISH PLANS AND RCPS.

   a. TYPICAL WALL PAINT COLOR [PT01], UON. RE: INTERIOR ELEVATIONS, DETAILS AND FINISH PLANS FOR CALL OUTS.

   b. ALL RESTROOMS WITH SHOWERS, FAMILY CHANGING ROOMS AND LOCKER ROOMS THAT DO NOT HAVE PAINT COLORS NOTED ARE TO BE PAINTED, [HPC01].

   c. ALL STORAGE ROOMS, JANITOR CLOSETS, AND MECHANICAL ROOMS THAT DO NOT HAVE PAINT COLORS NOTED, ARE TO BE PAINTED [PT01].

   d. IN DRY AREAS CEILING AND SOFFIT COLOR IS [PT01], UON. PAINT UNDERSIDE AND FACE OF SOFFIT AS NOTED.

   e. CEILINGS IN SHOWER AREA & FAMILY CHANGING AREA TO BE [APC01].

   f. PAINT ALL OPEN STRUCTURE CEILING INCLUDING ALL COMPONENTS [PT01] OR [HPC01] UON.

11. WHERE ACCENT PAINTS ARE NOTED ON THE DRAWINGS, COLOR IS TO EXTEND TO THE INSIDE CORNER WHERE INDICATED, UON.
12. ALL METAL GRILLES, PANELS OR PAINTABLE PROTRUSIONS SHALL BE PAINTED SEMI-GLOSS ENAMEL TO MATCH SURFACE ON WHICH THEY OCCUR, UON ON FINISH PLAN OR ELEVATIONS.
13. REFER TO INTERIOR ELEVATIONS & DETAILS FOR ADDITIONAL WALL FINISH INFORMATION.
14. REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL SOFFIT & CEILING FINISH INFORMATION.
15. CENTER CEILING GRID AND TILE LAYOUT IN EACH ROOM. DO NOT INSTALL LESS THAN A 1/2 CEILING TILE.
16. PROVIDE PLYWOOD BACKER WITH NO ADDED UREA FORMALDEHYDE FOR ALL WALL MOUNTED PANELS IN EACH IT ROOM.
17. CORNER GUARDS TO BE INSTALLED AT ALL OUTSIDE GYP CORNERS, UON. PROVIDE CORNER GUARD PROFILE, FINISH, COLOR AND HEIGHT PER FINISH LEGEND. SUBMIT SHOP DRAWINGS TO CONFIRM LOCATIONS.

SUBFLOOR TREATMENTS:

1. VAPOR EMISSIONS TESTING REQUIRED BELOW ALL FINISH FLOORS EXCEPT SEALED CONCRETE & WOOD FLOORING. DO NOT INSTALL PRODUCTS UNLESS SLAB(S) MEET MANUFACTURER'S STANDARDS. REFER TO SPECIFICATIONS.

FLOOR, WALL AND BASE:

1. ALL EXPOSED CONCRETE FLOORS SHALL BE SEALED UON, REFER TO DIV 3 SPECIFICATIONS. EXCEPTION: POOL DECKS.
2. FLOAT FLOORS AS NECESSARY TO PROVIDE FLUSH TRANSITIONS BETWEEN FLOORING MATERIALS. REFER TO DIV 09 OF PROJECT SPECIFICATIONS.
3. PROVIDE AND INSTALL RESILIENT BASE AT ALL AREAS UON. BASE SHALL BE ROLL GOODS. REFER TO FINISH LEGEND & INTERIOR ELEVATIONS FOR HEIGHT. REFER TO DIV 09 OF PROJECT SPECIFICATIONS.
4. WALL BASE AS INDICATED:

   a. CARPET HAS FLAT RESILIENT BASE [RB02] UON.
   [aa. IN INSTANCES WHERE BOTH CARPET AND OTHER FLOORING MATERIALS ARE USED, PROVIDE ALL COVE BASE [RB01].

   b. LINOLEUM / RUBBER FLOORING HAS RESILIENT BASE [RB01], UON.

   c. VINYL HAS COVED RESILIENT BASE [RB01], UON.

   d. SEALED CONCRETE HAS COVED RESILIENT BASE [RB01].

   e. WHERE [POR02] OR [POR03] ARE THE BASE FINISH, PROVIDE APPROPRIATE KEYSTONE TRIM.

5. CENTER ALL FLOORING TRANSITIONS DIRECTLY UNDER THE CENTERLINE OF DOOR WHEN IN CLOSED POSITION. IN AN OPENING WITHOUT A JAMB, RE: FINISH PLANS FOR TRANSITION LOCATION.
6. HEAT WELD ALL RESILIENT SHEET FLOORING SEAMS AND SEAL. REFER TO DIV 09 OF SPECIFICATIONS.
7. PROVIDE COLOR MATCH WELD RODS FOR EACH SHEET RESILIENT FLOOR AS SPECIFIED IN FINISH LEGEND.
8. PROVIDE TRANSITION STRIPS AT ALL CHANGE OF FLOOR MATERIALS. WITH THE LOWEST PROFILE POSSIBLE. REFER TO DETAILS AND DIV 09 OF PROJECT SPECIFICATIONS.

   a. CONTRACTOR TO PROVIDE SAMPLE OF EACH PROPOSED RUBBER AND/OR METAL TRANSITION STRIP.

   b. COLOR TO MATCH RUBBER BASE IN AREAS WHERE RUBBER TRANSITIONS ARE PROPOSED, UON.

   d. ALL STRIPS ARE TO BE INSTALLED PER MANUFACTURES' RECOMMENDATIONS AT ALL FLOOR COVERING TRANSITIONS.

9. PROVIDE SEAMING DIAGRAM WITH LOCATION OF PROPOSED TRANSITIONS AND REDUCER STRIPS.
10. INSTALL DIRECTIONAL FLOORING ORIENTED AS SPECIFIED ON FINISH PLAN.

TILE:

1. COORDINATE PRE-INSTALLATION MEETING FOR PATTERNED WALL AND FLOOR TILE INCLUDING TILE INSTALLER & DESIGNER TO CONFIRM TILE LAYOUT.
2. METAL TRIM PIECES:

   a. METAL TRIM COVE BASE AT ALL TILE LOCATIONS, UON: SCHLUTER METAL TRIM - SATIN ALUMINUM FINISH, RE: DETAILS AND INTERIOR LEGEND.

   b. INSIDE/OUTSIDE CORNERS OF WALL TILE - SATIN ALUMINUM FINISH, RE: DETAILS AND INTERIOR LEGEND.

   c. TOP CAP SATIN ALUMINUM FINISH, RE: DETAILS AND INTERIOR LEGEND.

3. PROVIDE ALL AVAILABLE CERAMIC OR PORCELAIN TILE TRIM PIECES - COVE, BULLNOSE, INSIDE/OUTSIDE CORNER, ETC.
4. REFER TO ENLARGED PLANS, ENLARGED TILE PATTERN AND INTERIOR ELEVATIONS FOR EXTENT OF TILE & TILE HEIGHTS.
5. EPOXY GROUT TO BE INSTALLED AT ALL SHOWERS AND FAMILY CHANGING SHOWERS - FLOOR AND WALLS. FOR GROUT COLORS REFER TO FINISH LEGEND.

CASEWORK & MILLWORK:

1. CAULK COUNTERS WHERE THEY ABUT WALLS WITH CLEAR CAULK.
2. PROVIDE WALL BLOCKING FOR ALL CABINETRY RE: ELEVATIONS.

DOORS & FRAMES:

1. PAINT ALL METAL DOORS TO MATCH ADJACENT WALL, UON.
2. IN AREAS WHERE FRAMES ARE DIFFERENT COLORS ON EACH SIDE OF WALL, STOP COLOR SO THAT ONLY ONE COLOR IS VISIBLE WITH THE DOOR IN CLOSED POSITION.

WINDOWS:

1. FOR EXTENT OF WINDOW TREATMENT AND LOCATIONS REFER TO WINDOW AND DOOR TYPE SHEET.
2. PROVIDE MECHANIZED MOTOR OPERATOR AT ANY WINDOW SHADE TOO LARGE OR HEAVY TO OPERATE MANUALLY AS NOTED ON WINDOW TYPE SHEET AND SHADE SCHEDULE.

SPECIALTIES:

1. PROVIDE BLOCKING AT ALL WALLS SCHEDULED FOR WALL HUNG EQUIPMENT, SYSTEMS FURNITURE, MARKER BOARD TACK BOARDS, TOILET ACCESSORIES, ETC. RE: PLANS, ELEVATIONS, EQUIPMENT & FURNITURE PLANS.
2. INSTALL FRP ABOVE WALL BASE. RE: FINISH PLANS FOR EXTENT AND FINISH LEGEND FOR COLOR.
3. ALL FURNITURE IS [OF/OI] UON.

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
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Date	01.24.2025

ROOM FINISH SCHEDULES

A900

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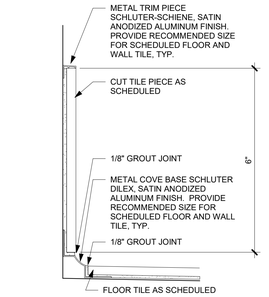
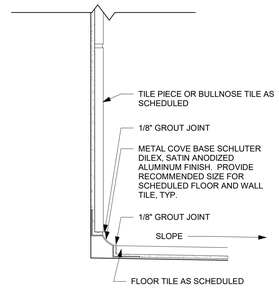


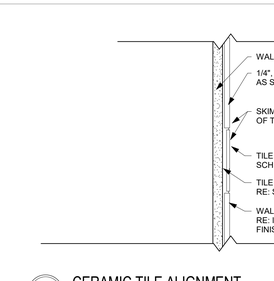
6 A901 METAL COVE BASE W/ TILE AND METAL TRIM

6" = 1'-0"



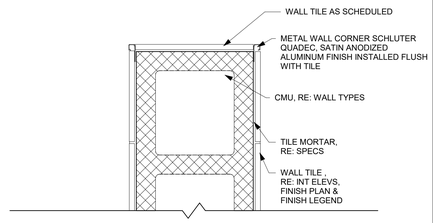
5 A901 METAL COVE BASE W/ WALL TILE

6" = 1'-0"



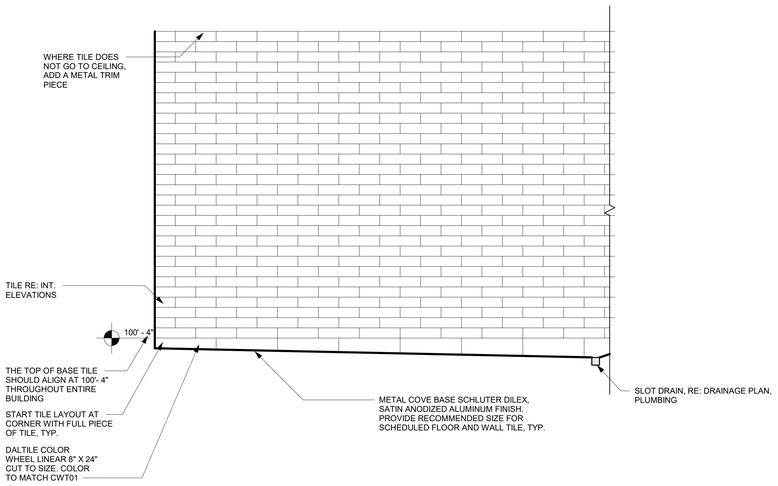
4 A901 CERAMIC TILE ALIGNMENT

3" = 1'-0"



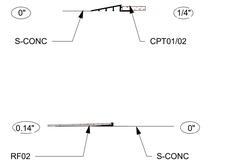
3 A901 CMU TILE CORNER DETAIL

3" = 1'-0"



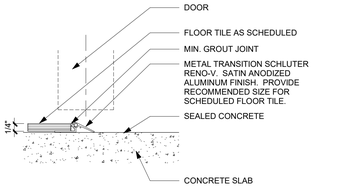
8 A901 LOCKER ROOM TILE PATTERN W/ SLOPING FLOOR

1/2" = 1'-0"



2 A901 FLOOR TRANSITIONS

3" = 1'-0"



1 A901 CERAMIC TILE TO CONCRETE FLOORING TRANSITION

6" = 1'-0"

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INTERIOR DETAILS

A901

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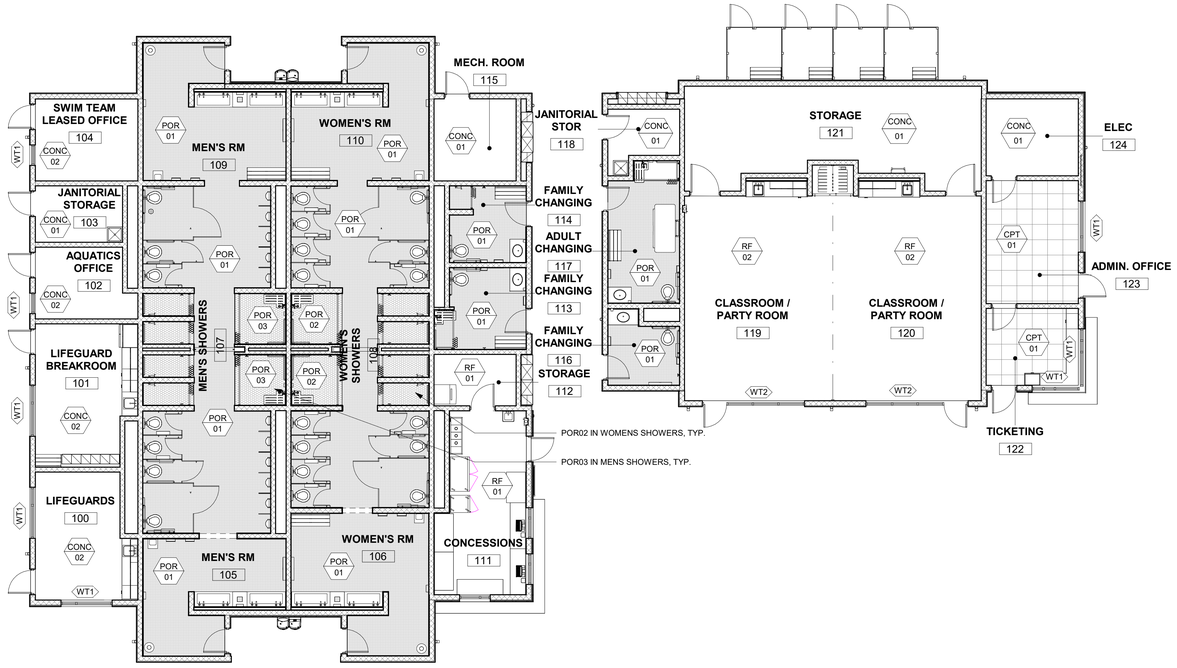
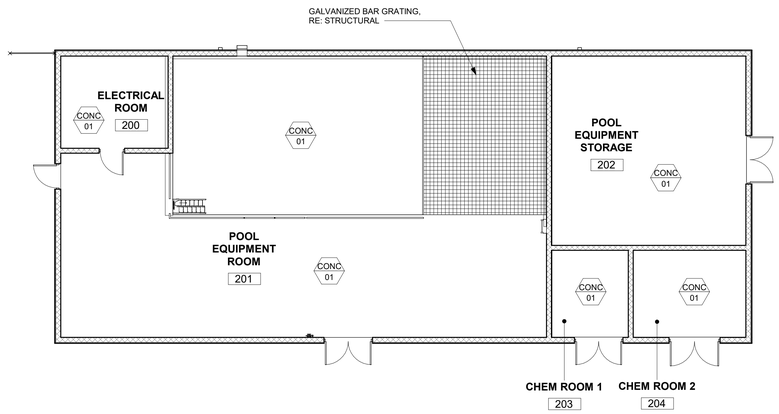
IF NOT TRUE, SCALE ACCORDINGLY
plot to .pdf in color
for paper size, see plot table
THIS SQUARED ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, WHEN PLOTTED CORRECTLY



1 A911 FINISH PLAN - FIRST FLOOR
1/8" = 1'-0"

0 4' 8' 16'

PROJECT TRUE



2 A911 FINISH PLAN - MECHANICAL BUILDING
1/8" = 1'-0"

0 4' 8' 16'

PROJECT TRUE

WINDOW TREATMENT LEGEND

WT1 **TYPE 1: SINGLE ROLL - MANUAL CHAIN**
MOUNTING: HEAD
FABRIC OPENNESS: 5%
FABRIC STYLE: TBD
FABRIC COLOR: TBD

WT2 **TYPE 2: SINGLE ROLL - MANUAL CRANK**
MOUNTING: HEAD
FABRIC OPENNESS: 3%
FABRIC STYLE: TBD
FABRIC COLOR: TBD

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FLOOR FINISH PLAN

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for paper size, use 24x36
scale accordingly for smaller sizes

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SIGNAGE SCHEDULE

Sign No.	Sign Type	Room Name	Rm. No.	Sign Description	Sign Message	Mounting Location	Comments
100	A	LIFEGUARDS	100	PUBLIC ROOM SIGNAGE	LIFEGUARDS	WALL	
101	A	LIFEGUARD BREAKROOM	101	PUBLIC ROOM SIGNAGE	LIFEGUARDS BREAKROOM	WALL	
102	A	AQUATICS OFFICE	102	PUBLIC ROOM SIGNAGE	AQUATICS OFFICE	WALL	
103	B	JANITORIAL STORAGE	103	NON-PUBLIC ROOM SIGNAGE	JANITORIAL STORAGE	WALL	
104	A	OFFICE	104	PUBLIC ROOM SIGNAGE	OFFICE	WALL	
105	A1	MEN'S RM	105	PUBLIC RESTROOM SIGNAGE W/ ICON	MEN'S RESTROOM	WALL	
106	A1	WOMEN'S RM	106	PUBLIC RESTROOM SIGNAGE W/ ICON	WOMEN'S RESTROOM	WALL	
109	A1	MEN'S RM	109	PUBLIC RESTROOM SIGNAGE W/ ICON	MEN'S RESTROOM	WALL	
110	A1	WOMEN'S RM	110	PUBLIC RESTROOM SIGNAGE W/ ICON	WOMEN'S RESTROOM	WALL	
111	B	CONCESSIONS	111	NON-PUBLIC ROOM SIGNAGE	CONCESSIONS	WALL	
112	B	STORAGE	112	NON-PUBLIC ROOM SIGNAGE	STORAGE	WALL	
113	A1	FAMILY CHANGING	113	PUBLIC RESTROOM SIGNAGE W/ ICON	FAMILY CHANGING ROOM	WALL	
114	A1	FAMILY CHANGING	114	PUBLIC RESTROOM SIGNAGE W/ ICON	FAMILY CHANGING ROOM	WALL	
115	B	MECH. ROOM	115	NON-PUBLIC ROOM SIGNAGE	MECHANICAL ROOM	WALL	
116	A1	FAMILY CHANGING	116	PUBLIC RESTROOM SIGNAGE W/ ICON	FAMILY CHANGING ROOM	WALL	
117	H	ADULT CHANGING	117	PUBLIC RESTROOM SIGNAGE W/ ICON	ADULT CHANGING TABLE	WALL	
117A	I	ADULT CHANGING	117	ADULT CHANGING TABLE CAPACITY	MAXIMUM WEIGHT XX	WALL	
118	B	JANITORIAL STOR	118	NON-PUBLIC ROOM SIGNAGE	JANITORIAL STORAGE	WALL	
119	E	CLASSROOM / PARTY ROOM	119	EXIT SIGNAGE	EXIT	GLASS	PROVIDE SIGN BACKER
120	E	CLASSROOM / PARTY ROOM	120	EXIT SIGNAGE	EXIT	GLASS	PROVIDE SIGN BACKER
121A	B	STORAGE	121	NON-PUBLIC ROOM SIGNAGE	STORAGE	WALL	
121A.1	F	CLASSROOM / PARTY ROOM	121	OCCUPANCY SIGNAGE	MAXIMUM OCCUPANCY XX	WALL	
121B	B	STORAGE	121	NON-PUBLIC ROOM SIGNAGE	STORAGE	WALL	
121B.1	F	CLASSROOM / PARTY ROOM	121	OCCUPANCY SIGNAGE	MAXIMUM OCCUPANCY XX	WALL	
122A	E	TICKETING	122	EXIT SIGNAGE	EXIT	WALL	
122B	A	ADMIN. OFFICE	122	PUBLIC ROOM SIGNAGE	TICKETING	WALL	
122C	G	TICKETING	122	FACILITIES MESSAGING	TBD BY OWNER	GLASS	PROVIDE SIGN BACKER
123	A	ADMIN. OFFICE	123	PUBLIC ROOM SIGNAGE	ADMINISTRATIVE OFFICE	WALL	
124	B	ELEC	124	NON-PUBLIC ROOM SIGNAGE	ELECTRICAL ROOM	WALL	
200	B	ELECTRICAL ROOM	200	NON-PUBLIC ROOM SIGNAGE	ELECTRICAL ROOM	WALL	
201A	B	POOL EQUIPMENT ROOM	201	NON-PUBLIC ROOM SIGNAGE	POOL EQUIPMENT ROOM	WALL	
201B	E	POOL EQUIPMENT ROOM	201	EXIT SIGNAGE	EXIT	WALL	
202	B	POOL EQUIPMENT STORAGE	202	NON-PUBLIC ROOM SIGNAGE	POOL EQUIPMENT STORAGE	WALL	
203	B	CHEM ROOM 1	203	NON-PUBLIC ROOM SIGNAGE	CHEMICAL ROOM	WALL	
204	B	CHEM ROOM 2	204	NON-PUBLIC ROOM SIGNAGE	CHEMICAL ROOM	WALL	

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Revision Schedule

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Key Plan

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Project Number	23030
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SIGNAGE SCHEDULE

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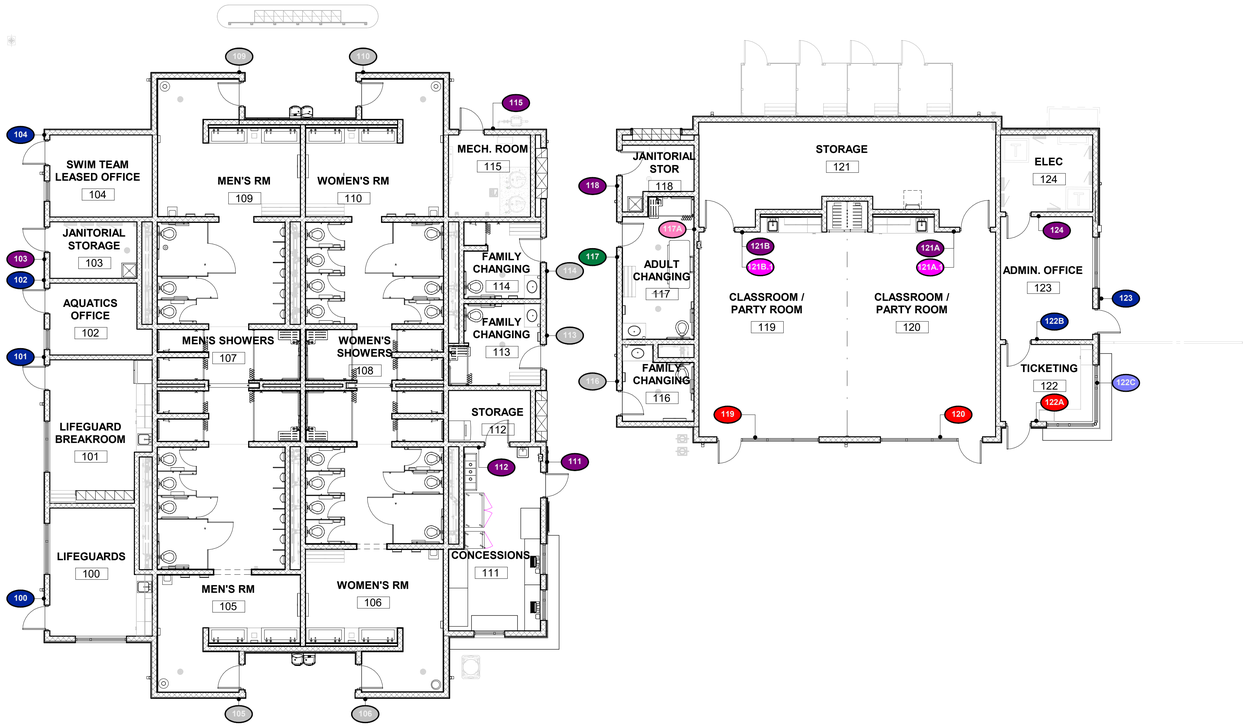
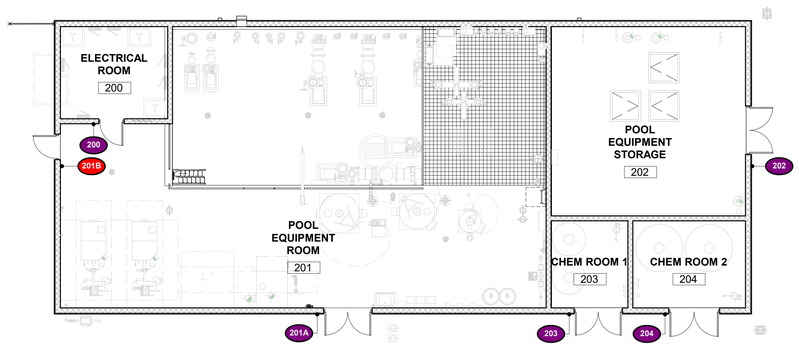


1 A951 SIGNAGE PLAN - FACILITIES & BATH HOUSE

1/8" = 1'-0"



2 A951 SIGNAGE PLAN - MECHANICAL BUILDING

1/8" = 1'-0"

SIGNAGE GENERAL NOTES

1. SIGNAGE VENDOR IS RESPONSIBLE FOR VERIFYING COMPLIANCE WITH ALL APPLICABLE CODES (BACKGROUND, CONTRAST, LETTER SIZE AND PLACEMENT, ETC.).
2. SIGNAGE VENDOR IS RESPONSIBLE FOR REVIEWING AND COORDINATING ALL SIGNS, LOCATIONS, COPY, MESSAGE SCHEDULE AND MOUNTING HEIGHTS WITH OWNER PRIOR TO SIGNAGE FABRICATION.
3. SIGNAGE VENDOR IS RESPONSIBLE FOR CONFIRMING ALL MAXIMUM OCCUPANCY NUMBERS AND REQUIRED LOCATIONS OF ALL OCCUPANCY SIGNS.
4. SIGNAGE VENDOR TO PROVIDE SHOP DRAWINGS, SIGN AND MESSAGE LAYOUTS, MATERIAL SAMPLES AND MOCK-UP FOR ALL SIGNS FOR APPROVAL PRIOR TO SIGNAGE FABRICATION.
5. SIGNAGE VENDOR TO FIELD VERIFY ALL SIGN INSTALLATION LOCATIONS PRIOR TO SIGN FABRICATION AND INSTALLATION. SIGNS MUST BE INSTALLED IN COMPLIANCE WITH ALL ADA AND CODE REQUIREMENTS.
6. SIGNAGE VENDOR TO INCLUDE ARTWORK AND GRAPHIC SET UP AND TEMPLATE CREATION IN PRICING.
7. MOUNT SIGNS WITH VHB TAPE UNLESS OTHERWISE NOTED. WHERE SIGNS ARE MOUNTED ON GLASS PROVIDE 1/8" OPAQUE BACKER PANEL ON THE OPPOSITE SIDE OF GLASS.
8. SIGN ROOM NUMBERS AND NAMES MAY NOT BE THE SAME AS ARCHITECTURAL PLAN NUMBERS AND NAMES. SIGNAGE VENDOR TO COORDINATE WITH OWNER PRIOR TO SIGNAGE FABRICATION.

SIGNAGE LEGEND

- A — PUBLIC ROOM SIGNAGE
- A1 — PUBLIC RESTROOM ROOM SIGNAGE W/ ICON
- B — NON-PUBLIC ROOM SIGNAGE
- E — EXIT SIGN
- F — OCCUPANCY SIGN
- G — FACILITIES MESSAGING SIGN
- H — ADULT CHANGING SIGNAGE
- I — WEIGHT CAPACITY

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SIGNAGE PLAN

A951

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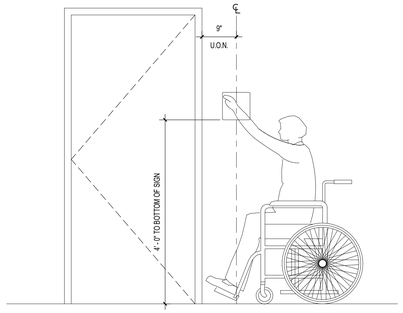
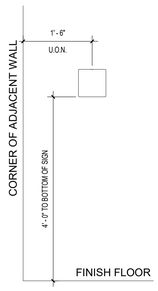
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE
IF NOT, SCALE ACCORDINGLY

IF THIS SQUARE ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, you have a color plot.

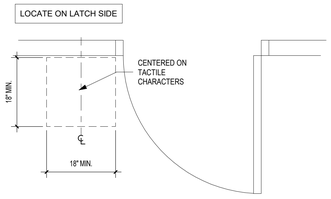
plot to suit a color or grayscale printer.



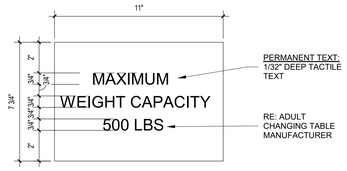
3 A952 MOUNTING HEIGHT
3/4" = 1'-0"



2 A952 ADJACENT WALL MOUNTING
3/4" = 1'-0"



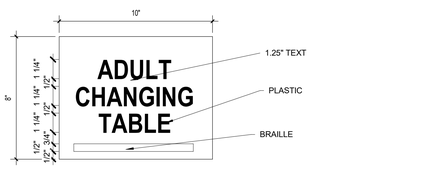
1 A952 LOCATION OF TACTILE SIGNS AT DOORS
3/4" = 1'-0"



SIGN TYPE I - INFORMATIONAL

CONSTRUCTION NOTES:
1/8" THICK CLEAR NON-GLARE ACRYLIC WITH 1/32" TACTILE LETTERS. SECOND SURFACE OF ACRYLIC PAINTED

12 A952 SIGN TYPE I
3" = 1'-0"



SIGN TYPE H - ADULT CHANGING TABLE

CONSTRUCTION NOTES:
1/8" THICK CLEAR NON-GLARE ACRYLIC WITH 1/32" TACTILE LETTERS. SECOND SURFACE OF ACRYLIC PAINTED

MOUNTING NOTES:
SEE 1/A970, 2/A970, AND 3/A970

11 A952 SIGN TYPE H
3" = 1'-0"

SIGN TYPE G - VINYL LETTERS

SIGN TYPE K
VINYL LETTERS
FONT: TBD
COLOR: TBD
SIZE: RE: INT. ELEV

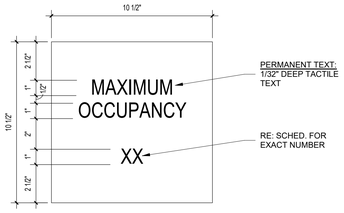
CONSTRUCTION NOTES:
1.COMPUTER CUT VINYL LETTERS TO BE APPLIED TO THE OUTSIDE OF GLASS SIDELIGHTS OR FACE OF DOOR.

2.EXACT LOCATIONS TBD

3. VERIFY LOCATIONS AND GLASS SIZE FOR MAXIMUM LINE LENGTH AND HEIGHT

4. PROVIDE LAYOUT FOR OWNER APPROVAL.

10 A952 SIGN TYPE G
3" = 1'-0"

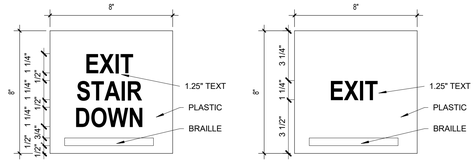


SIGN TYPE F - INTERIOR OCCUPANCY IDENTIFICATION

CONSTRUCTION NOTES:
1/8" THICK CLEAR NON-GLARE ACRYLIC WITH 1/32" TACTILE LETTERS. SECOND SURFACE OF ACRYLIC PAINTED

MOUNTING NOTES:
SEE 1/A970, 2/A970, AND 3/A970

7 A952 SIGN TYPE F
3" = 1'-0"

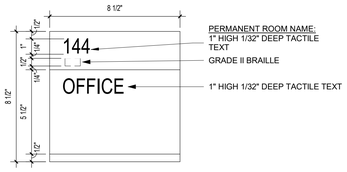


SIGN TYPE E - EXIT SIGNAGE

CONSTRUCTION NOTES:
1/8" THICK CLEAR NON-GLARE ACRYLIC WITH 1/32" TACTILE LETTERS. SECOND SURFACE OF ACRYLIC PAINTED

MOUNTING NOTES:
SEE 1/A970, 2/A970, AND 3/A970

8 A952 SIGN TYPE E
3" = 1'-0"

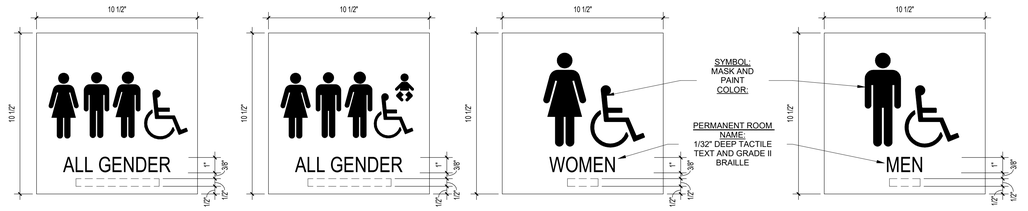


SIGN TYPE B - INTERIOR ROOM IDENTIFICATION

CONSTRUCTION NOTES:
BACKER: 1/4" THICK POLISHED BLACK ACRYLIC.
HEADER: 1/8" THICK CLEAR NON-GLARE ACRYLIC WITH TACTILE LETTERS AND CLEAR INSET "BEAD BRAILLE." SECOND SURFACE OF ACRYLIC PAINTED

MOUNTING NOTES:
SEE 1/A970, 2/A970, AND 3/A970

5 A952 SIGN TYPE B
3" = 1'-0"

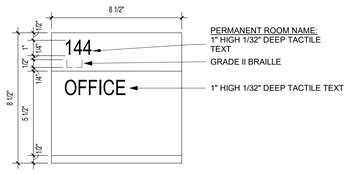


SIGN TYPE A.1 - INTERIOR RESTROOM IDENTIFICATION

CONSTRUCTION NOTES:
1/4" THICK CLEAR NON-GLARE ACRYLIC WITH TACTILE LETTERS AND CLEAR INSET "BEAD BRAILLE."
SECOND SURFACE OF ACRYLIC PAINTED

MOUNTING NOTES:
SEE 1/A970, 2/A970, AND 3/A970

4 A952 SIGN TYPE A.1
3" = 1'-0"



SIGN TYPE A - EXTERIOR ROOM IDENTIFICATION

CONSTRUCTION NOTES:
BACKER: 1/8" BRUSHED ALUMINUM PANEL
HEADER: 1/8" TACTILE LETTERS AND CLEAR INSET "BEAD BRAILLE."

MOUNTING NOTES:
SEE 1/A970, 2/A970, AND 3/A970

16 A952 SIGN TYPE A
3" = 1'-0"

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Chico, CA 95973
530.895.1422

BARKER RINKER SEACAT ARCHITECTURE

PERMIT REVIEW & BID SET ONLY
DOCUMENT PACKAGE NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	100% CDS
Date	01.24.2025

SIGNAGE DRAWINGS AND DETAILS

A952

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File Location: T:\Projects\2022\23030_Chico Aquatic and Recreation Facility\23030_WORKING\AUTOCAD\SHEETS\GN002 OVERALL PLAN | SAVE DATE: 3/5/2024 4:18 PM BY: jhesterdal | PLOT DATE: 1/20/2023 2:45 PM BY: Jin He-Cardello
1/22/2025 3:59:25 PM Autodesk Docs://Chico CA Aquatics Center/CARD Aquatic Facility - 2023.010_R24.rvt

File Location: T:\Projects\2023\23030_Chico Aquatic and Recreation Facility\23030_WORKING\AUTOCAD\SHEETS\GN002 OVERALL PLAN / SAVE DATE: 3/5/2024 4:18 PM BY: jhecandido / PLOT DATE: 1/20/2023 2:45 PM BY: Jin He-Candido
1/22/2025 9:38:52 AM Autodesk Docs://Chico CA Aquatics Center/23.1228.S.01-CHICO AQUATICS CENTER-S24_.rvt
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAGE SIZE
plot to .pdf in color for paper plots, use black & white whenever possible to save printing costs
THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, IF PRINTED CORRECTLY

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
-	GRID LINES
X / XX	SECTION OR DETAIL CUT; SHEET NUMBER
X / XX	ELEVATION CUT; SHEET NUMBER
XXX'-XX"	ELEVATION CALLOUT
X	DRAWING REVISION NUMBER
	CURRENT REVISION CLOUD
	WELDED-WIRE REINFORCEMENT
	ROUGHENED SURFACE, INTENTIONALLY ROUGHEN TO 1/4" AMPLITUDE, UNO
	SERVICE LOAD PROVIDED FOR SPECIALTY DESIGNER
	STEP
	SLOPE
1	KEY NOTE
	SUBGRADE
	FORM SAVER

SYMBOL	DESCRIPTION
XX.Xk	MECH UNIT (XX.Xk = MECH UNIT OPERATING WEIGHT IN KIPS INCLUDING INERTIA BASE)
	EXTENT OF CONCRETE PAD
X"	PAD THICKNESS
X	PENETRATION THROUGH STRUCTURAL MEMBER
	STRUCTURAL MASONRY WALL CONTROL JOINT
	CAST-IN-PLACE CONCRETE
	OVERFRAMING

SYMBOL	DESCRIPTION
XXk / BEAM SIZE c=X" / XXk / (XXX'-XX")	CAMBER (INCHES); STEEL BEAM; ELEVATION OF T/STEEL; ULTIMATE BM REACTION USING LRFD LOAD COMBINATIONS (KIPS)
HSX / XXX'-XX"	PLYWOOD TYPE, SEE 9/S600; SPAN DIRECTION; T/PLYWOOD

SYMBOL	DESCRIPTION
OWSXXA / XXX'-XX"	SLAB TYPE; SLAB THICKNESS; ONE-WAY SLAB TYPE, SEE 1/S302; SPAN DIRECTION (IF ONE-WAY); T/SLAB
SOGXXA / XXX'-XX"	SLAB TYPE; SLAB THICKNESS; TYPE; T/SLAB
F1 / XX'-X"	**F**TG MARK (SF = **S**TRIP **F**TG); T/FTG EL
CXX / BP-X	**C**OLUMN SIZE OR MARK; **B**ASE **P**LATE TYPE
YW1	WALLS, Y = (**F**)ND, (**C**)IP CONC, (**P**)RECAST, (**M**)AS, (**R**)ETAINING, CIP CONC (**S**)HEARWALL

NOTES:
1. ITEMS NOT DESIGNED BY M/M ARE SHOWN HALFTONED
2. ITEMS INCLUDE:
   - EXISTING CONSTRUCTION
   - PERFORMANCE SPECIFIED ITEMS (STAIRS, RAILINGS, ETC.)

ABBREVIATIONS

(E) or EXIST	Existing
(S)	Salvaged
/	Per
@	At
AB	Anchor Bolt
ACI	American Concrete Institute
ADDNL	Additional
AESS	Architecturally Exposed Structural Steel
AFF	Above Finish Floor
ALT	Alternate
ALUM	Aluminum
APA	American Plywood Association
APPROX	Approximate
ARCH	Architect or Architectural
B/ or BO	Bottom of
BAL	Balance
BD	Board
BF	Braced Frame
BG	Backgouge
BL	Brick Ledge
BLDG	Building
BLKG	Blocking
BM	Beam
BN	Boundary Nail
BOS	Bottom of Steel
BOT or B	Bottom
BRG	Bearing
BSMT	Basement
BTWN	Between
CC	Center to Center
CF	Cold Formed
CG	Center of Gravity
CIP	Cast-In-Place
CJ	Control Joint
CJP	Complete Joint Penetration
CL	Centerline
CLG	Ceiling
CLMS	Ceiling/Light/Mechanical/ Superimposed Load
CLR	Clear
CLT	Cross Laminated Timber
CMU	Concrete Masonry Unit
COL	Column
CONC	Concrete
CONN	Connection
CONST	Construction
CONT	Continue or Continuous
CONTR	Contractor
COORD	Coordinate
CSJ	Construction Joint
CTR(D)	Center(ed)
d	Penny
D or DL	Dead Load
DAS	Deformed Anchor Stud
db	Rebar Diameter
DBL	Double
DCW	Demand Critical Weld
DFS	Deferred Submittal
Di	Gravity Ice Load
DIA OR Ø	Diameter
DIAG	Diagonal
DIM	Dimension
DN	Down
DO	Ditto
DP	Drilled Pier or Deep
DT	Precast Double Tee
DTL(s)	Detail(s)
DWG(s)	Drawing(s)
DWL(s)	Dowels(s)
E	Earthquake Load
E-W	East-West
EA	Each
EC	Epoxy Coated
EE	Each End
EF	Each Face
EJ	Expansion Joint
EL	Elevation
ELEV	Elevator
EMBED	Embedded
EN	Edge Nail
ENGR	Engineer
EOR	Engineer-of-Record
EPD	Environmental Product Data
EQ	Equal
EQ SP	Equally Spaced
EQUIP	Equipment
ES	Each Side
EW	Each Way
EXP	Expansion
EXP ANCH	Expansion Anchor
EXT	Exterior
F	Fluid Load
Fa	Flood Load
FAB	Fabricate
FD	Footing Dowel
FF	Finished Floor
FIN	Finish(ed)
FLG	Flange
FLR	Floor
FND	Foundation
FO	Face of
FP	Full Penetration or Fire Proofing
FRAM	Framing
FS	Far Side
FT	Foot or Feet
FTG	Footing
FV	Field Verify
GA	Gage or Gauge
GALV	Galvanized
GC	General Contractor
GL	Glu-lam
GLB	Glu-lam Beam
GR	Grade or Grind
GR BM	Grade Beam
GWP	Global Warming Potential
H	Soil Lateral Load
HAS or HDAS	Headed Anchor Stud
HD	Headed or Holddown
HDAR	Headed Anchor Rod
HDG	Hot Dipped Galvanized
HK	Hook
HORIZ	Horizontal
HT	Height
HVAC	Heating-Ventilating and A/C
I.F.	Inside Face
IN	Inch
INT	Interior
IS	Inside Diameter
IT	Precast Inverted Tee Beam
JST	Joist
JT	Joint
k	Kip
L	Length or Live Load
LB	Precast L-Shaped Beam
LB(S)	Pound(s)
LCE	Compression Embedment
LCS	Compression Lap Splice
LDH	Hook Development Length
LG	Length
LL	Live Load
LLH	Long Leg Horizontal
LLV	Long Leg Vertical
LOC(s)	Location(s) or Locate
LONG	Longitudinal
Lr	Roof Live Load
LSH	Long Side Horizontal
LSL	Laminated Strand Lumber
LSV	Long Side Vertical
LT	Light
LTE	Tension Embedment
LTS	Tension Lap Splice Length
LTWT	Lightweight
LVL	Level or Laminated Veneer Lumber
LWC	Light Weight Concrete
MACH	Machine
MACH RM	Machine Room
MAS	Masonry
MATL	Material
MAX	Maximum
MBS	Metal Building Supplier
MCJ	Masonry Control Joint
MECH	Mechanical
MEP	Mech/Elect/Plumb
MIL	Micro-Lam
MIN	Minimum
MISC	Miscellaneous
MLS	Masonry Lap Splice
mm	Millimeter
MNFR	Manufacturer
MO	Masonry Opening
MTL	Metal
N	North
N-S	North-South
NIC	Not in Contract
NM	Non-Metallic
NO OR #	Number
NOM	Nominal
NS	Non-Shrink or Near Side
NTS	Not to Scale
NWC	Normal Weight Concrete
O.F.	Outside Face
OAE	Or Approved Equivalent
OC	On Center
OD	Outside Diameter
OH	Opposite Hand
OPNG	Opening
OPP	Opposite
OVS	Oversized
OWS	One-Way Slab
PAF	Powder Actuated Fastener
PC	Precast
PCA	Portland Cement Association
PD	Pier Dowel
PEMB	Pre-Engineered Metal Building
PEN	Penetration
PERP	Perpendicular
PL	Plate (Steel)
PLF	Pounds Per Lineal Foot
PREFAB	Prefabricated
PRELIM	Preliminary
PS	Prestressed
PSF	Pounds Per Square Foot
PSI	Pounds Per Square Inch
PSL	Parallel Strand Lumber
PT	Point or Post-Tension or Pretensioned
QTY	Quantity
R	Radius or Rain Load
RAD	Radius
RB	Precast Rectangular Beam
RC	Reinforced Concrete
RE: or REF	Refer to (Reference)
REINF	Reinforce(ing)(d)(ment)
REQD	Required
REQT(s)	Requirement(s)
RET	Return
RO	Rough Opening
ROF	Random Oriented Fiber
S	South
SC	Slip Critical
SCHED	Schedule
SECT	Section
SIM	Similar
SL	Snow Load
SLH	Short Leg Horizontal
SLRS	Seismic Load Resisting System
SLV	Short Leg Vertical
SOG	Slab on Grade
SP	Space(s)
SP @	Space at
SPECS	Specifications
SPRT	Support
SS	Stainless Steel
SSL	Short-Slotted
STD	Standard
STIFF	Stiffener
STL	Steel
STR	Structural
SW	Shearwall
SYM	Symmetrical
T	Top or Thermal Load
T&B	Top and Bottom
T/ or T.O.	Top of
THK	Thick or Thickness
TL	Total Load
TOC	Top of Concrete
TOF	Top of Footing
TOM	Top of Masonry
TOP	Topping
TOS	Top of Steel
TOW	Top of Wall
TRANS	Transverse
TWS	Two-Way Slab
TYP	Typical
ULT	Ultimate
UNO	Unless Noted Otherwise
Vasd	Service Level/Nominal Design Wind Speed
VERT	Vertical
VIF	Verify in Field
Vult	Ultimate Design Wind Speed
W	Wind Load
W/	With
W/O	Without
WD	Width or Wood
WF	Wide Flange
Wi	Wind-on-Ice Load
WP	Working Point or Waterproofing
WPS	Welding Procedure Specification
WT	Weight
WWR	Welded Wire Reinforcing
WxH	Width x Height

DESIGN CRITERIA

1) CODES AND STANDARDS:
1A) GENERAL DESIGN
- 2022 CALIFORNIA BUILDING CODE

1B) LOADS
- ASCE/SEI 7-16 "MINIMUM DESIGN LOAD FOR BUILDINGS AND OTHER STRUCTURES" WHERE INDICATED ON DRAWINGS INDIVIDUAL UNFACTORED LOAD COMPONENTS (D, Di, L, Lr, R, S, H, F, Fa, E, W, Wi, T) ARE AS DEFINED AND DETERMINED BY THE BUILDING CODES AND STANDARDS INDICATED. LOAD COMPONENTS SHALL BE COMBINED USING THE LOAD COMBINATIONS OF THE BUILDING CODE FOR SPECIALTY DESIGN BY OTHERS.

1C) CONCRETE
- ACI 301-LATEST EDITION "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"
- ACI 318-19 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"

1D) MASONRY
- TMS 402-16 "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES"
- TMS 602-16 "SPECIFICATION FOR MASONRY STRUCTURES"

1E) STEEL
- ANSI/AISC 341-16 "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS"
- ANSI/AISC 360-16 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" LOAD AND RESISTANCE FACTOR DESIGN

1F) WOOD
- ANSI/AWC NDS-2018 "NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION - WITH 2018 NDS SUPPLEMENT"

2) SEISMIC LOADS
- SEISMIC DESIGN CATEGORY = D
- RISK CATEGORY = II
- EARTHQUAKE IMPORTANCE FACTOR, Ie = 1.00
- MAPPED SPECTRAL RESPONSE ACCELERATION, Ss = 77.50 %g
- MAPPED SPECTRAL RESPONSE ACCELERATION, S1 = 32.20 %g
- DESIGN SPECTRAL RESPONSE COEFFICIENT, SDs = 0.615
- DESIGN SPECTRAL RESPONSE COEFFICIENT, SD1 = 0.425
- SOIL SITE CLASS = D
- STRUCTURAL SEISMIC LATERAL SYSTEM: SPECIAL REINFORCED MASONRY SHEAR WALLS
- RESPONSE MODIFICATION FACTOR, R = 5
- SEISMIC RESPONSE COEFFICIENT, Cs = 0.123
- SYSTEM OVERSTRENGTH FACTOR, OMEGA = 2.5
- DESIGN BASE SHEAR, MECHANICAL BUILDING NS DIRECTION = 56.7k
- DESIGN BASE SHEAR, MECHANICAL BUILDING EW DIRECTION = 43.9k
- DESIGN BASE SHEAR, FACILITIES BUILDING = 31.5k
- DESIGN BASE SHEAR, BATHHOUSE BUILDING = 85.2k
- SEISMIC ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE ANALYSIS

3) WIND LOADS
- RISK CATEGORY = II
- BASIC ULTIMATE WIND SPEED, Vult = 94 mph
- BASIC NOMINAL WIND SPEED, Vasd = 72.8 mph
- EXPOSURE CATEGORY = C
- INTERNAL PRESSURE COEFFICIENT, Gcpi = +/-0.18

4) DESIGN WIND PRESSURE FOR COMPONENTS AND CLADDING AND ELEMENTS DESIGNED BY THE CONTRACTOR
4A) LISTED COMPONENT AND CLADDING WIND PRESSURES ARE INCLUDED FOR REFERENCE ONLY. FINAL CALCULATIONS SHALL BE COMPLETED BY CONTRACTOR
4B) PRESSURES LISTED BELOW ARE ULTIMATE
4C) SEE 'WALL CORNER AND SPECIAL ROOF ZONES DIAGRAM'
4D) COMPONENT AND CLADDING SURFACE PRESSURES (PSF)

- **WALLS PRESSURES**

WALLS AREA	10 SF	100 SF	200 SF	500 SF
Walls Interior Neg Zone 4	-22.8	-19.7	-18.8	-17.6
Walls Corner Neg Zone 5	-28.1	-21.9	-20.0	-17.6
Walls Positive Zones 4 & 5	21.1	18.0	17.0	16.0

- **ROOF PRESSURES**

FLAT ROOFS

ROOF AREA	10 SF	100 SF	500 SF
Negative Zone 1	-37.2	-30.4	-25.6
Negative Zone 1'	-24.0	-24.0	-18.2
Negative Zone 2	-47.2	-38.4	-32.3
Negative Zone 3	-62.0	-44.5	-32.3
Positive All Zones	16.0	16.0	16.0
Overhang Zone 1&1'	-28.1	-26.5	-16.5
Overhang Zone 2	-38.1	-26.4	-18.2
Overhang Zone 3	-52.9	-32.5	-18.2

GABLED ROOFS

ROOF AREA	10 SF	100 SF	500 SF
Negative Zone 1 & 2e	-43.2	-27.7	-22.9
Negative Zone 2n, 2r, & 3e	-60.2	-35.9	-29.7
Negative Zone 3r	-70.4	-39.9	-39.9
Positive All Zones	18.4	16.0	16.0
Overhang Zone 1&2e	-42.4	-31.9	-30.5
Overhang Zone 2n & 2r	-59.4	-41.2	-37.3
Overhang Zone 3e	-69.5	-38.0	-28.8
Overhang Zone 3r	-79.7	-39.0	-39.0

- **PARAPET PRESSURES**

PARAPET QP = 19.5 psf

SOLID PARAPET PRESSURE	10 SF	100 SF	500 SF
Parapet Case A Zone 2:	62.4	49.0	39.6
Parapet Case A Zone 3:	62.4	49.0	39.6
Parapet Case B Zone 2:	-36.9	-30.7	-26.3
Parapet Case B Zone 3:	-42.1	-32.8	-26.3

-PARAPET CASE A = PRESSURE TOWARDS BUILDING (POS)
-PARAPET CASE B = PRESSURE AWAY FROM BLDG (NEG)
Parapet Cap Uplift Zone 2: 48.8 PSF
Parapet Cap Uplift Zone 3: 48.8 PSF

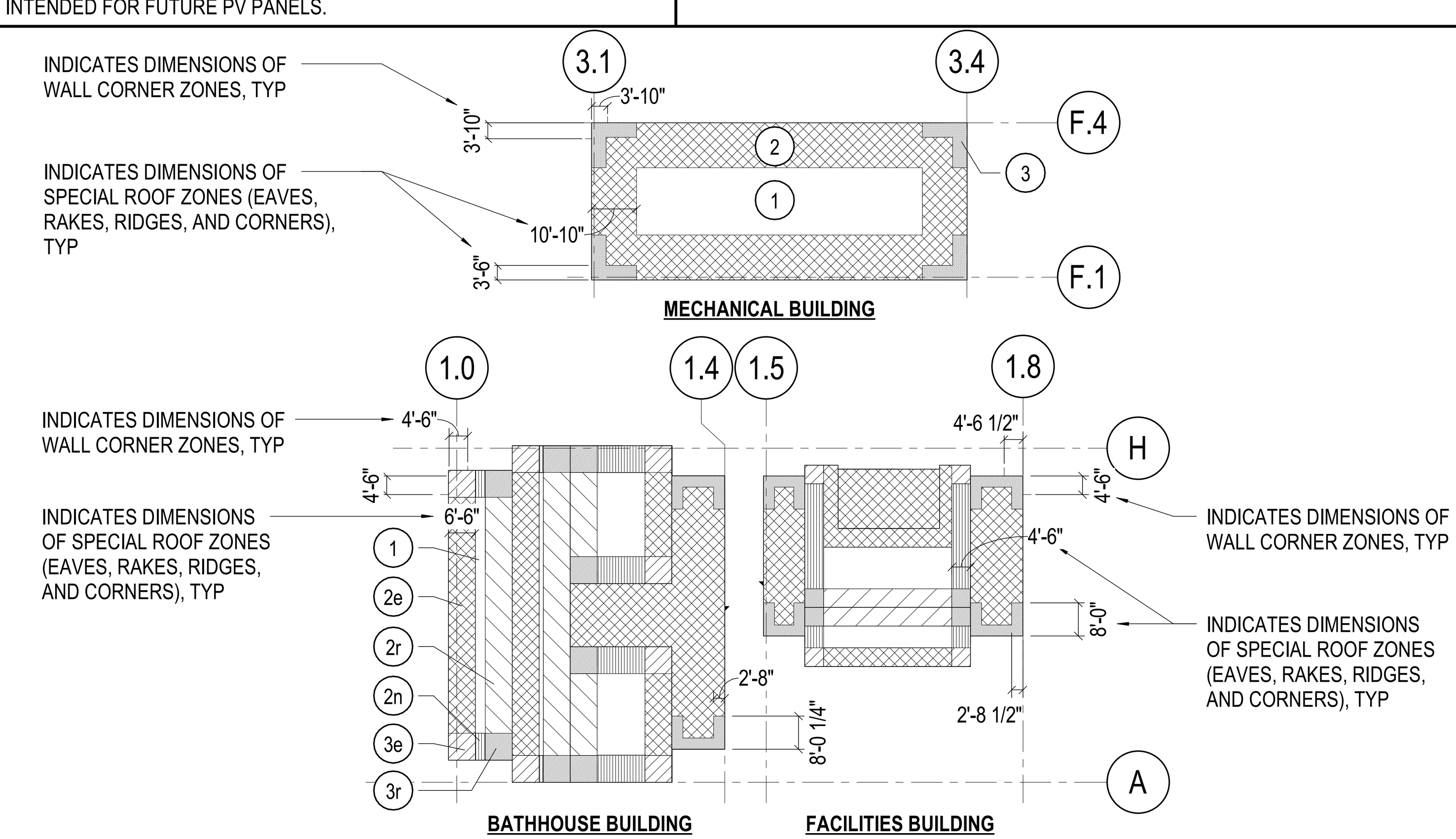
5) LATERAL LOAD RESISTING SYSTEM DESCRIPTION:
- PLYWOOD SHEATHING DIAPHRAGMS SPANNING BETWEEN SPECIAL REINFORCED MASONRY SHEAR WALLS SUPPORTED ON SHALLOW FOUNDATIONS.

6) GRAVITY LOADS
6A) SEE GRAVITY LOADS TABLE

GRAVITY LOADS

LOCATION	SUPERIMPOSED DEAD LOAD (PSF)	LIVE LOAD (PSF)	LIVE LOAD REDUCTION	PARTITION LOAD (PSF)	POINT LOAD (LB)
ROOF (TYPICAL)	15 (INCLUDES ROOFING LOAD, SEE NOTE 1)	20 ROOF LIVE LOAD	YES	--	300
ROOF (MECHANICAL BUILDING)	70 (INCLUDES ROOFING AND PIPING LOAD)	20 ROOF LIVE	YES	--	300
SURGE TANK LID	10 + EQUIP (NOT LESS THAN 150)	100	NO	--	2000

NOTES:
1. FUTURE PV PANELS ARE NOT CONSIDERED IN ROOF LOADING. IF FUTURE PV PANELS ARE INSTALLED, IT IS RECOMMENDED A STRUCTURAL ENGINEER BE ENGAGED TO EVALUATE AND STRENGTHEN THE ROOF FRAMING AS REQUIRED. SEE RELEVANT DISCIPLINE'S PLANS FOR LOCATIONS INTENDED FOR FUTURE PV PANELS.



WALL CORNER & SPECIAL ROOF ZONES

1" = 30'-0"

STRUCTURAL DRAWING LIST

SHEET NUMBER	SHEET TITLE
S001	NOTES
S002	NOTES
S003	NOTES
S004	QUALITY ASSURANCE
S005	QUALITY ASSURANCE
S100	OVERALL FOUNATION PLAN
S101	FOUNDATION PLAN - FACILITIES AND BATH HOUSE
S102	FOUNDATION PLAN - MECHANICAL BUILDING
S110	OVERALL ROOF FRAMING PLAN
S111	LOW ROOF FRAMING PLAN - FACILITIES AND BATH HOUSE
S112	HIGH ROOF FRAMING PLAN - FACILIIES AND BATH HOUSE
S113	ROOF FRAMING PLAN - MECHANICAL BUILDING
S300	TYPICAL FOUNDATION DETAILS
S301	TYPICAL SLAB ON GRADE DETAILS
S302	CONCRETE SLAB DETAILS
S303	TYPICAL CONCRETE DETAILS
S400	TYPICAL MASONRY DETAILS
S401	TYPICAL MASONRY DETAILS
S500	STEEL DETAILS
S600	TYPICAL WOOD FRAMING DETAILS
S601	WOOD FRAMING DETAILS
S602	PRE-FABRICATED WOOD ROOF TRUSS DETAILS
S603	WOOD FRAMING TO CMU
S604	WOOD FRAMING DETAILS

DEFERRED SUBMITTALS

1) GENERAL:
1A) THE FOLLOWING PORTIONS OF THE STRUCTURAL DESIGN WILL NOT BE SUBMITTED AT THE TIME OF PERMIT APPLICATION. WHEN RECEIVED AND REVIEWED, THESE DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL BY THE CONTRACTOR:
- ARCHITECTURAL/METAL CLADDING PANEL
- METAL PLATE CONNECTED WOOD TRUSSES
- SKYLIGHT SYSTEMS
- METAL RAILINGS
- ANCHORAGE, BRACING AND ATTACHMENT OF REQUIRED ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE SPRINKLER, AND OTHER EQUIPMENT AND SYSTEMS UNO ON STRUCTURAL DRAWINGS.

1B) CONNECTION OF DEFERRED SUBMITTAL ITEMS TO PRIMARY STRUCTURE BY DEFERRED SUBMITTAL SUPPLIER. DEFERRED SUBMITTAL SUPPLIER TO PROVIDE CONNECTIONS AND FRAMING ARRANGEMENT TO AVOID LOADING WHICH EXCEEDS THE CAPACITY OF THE ELEMENT BEING ATTACHED TO. REFERENCE LOAD MAPS FOR MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SPRINKLER LOAD ALLOWANCES.

1C) ALL DEFERRED SUBMITTALS TO BE ATTACHED TO PRIMARY STRUCTURE WITH A PINNED CONNECTION. MOMENT CONNECTIONS TO PRIMARY STRUCTURE NOT PERMITTED UNLESS NOTED ON DRAWINGS OR APPROVED BY ENGINEER IN WRITING PRIOR TO SUBMITTAL OF DRAWINGS OR CALCULATIONS.

1D) LOADING AND LOCATION FOR ATTACHMENT OF DEFERRED SUBMITTAL ITEMS ARE NOTED ON DRAWINGS AND ARE NOT TO BE RE-LOCATED OR INCREASED WITHOUT WRITTEN APPROVAL.

1E) WALLS, GRADE BEAMS AND THE UNDERSIDE OF CONCRETE ON METAL DECK SHALL BE CONSIDERED CRACKED FOR THE PURPOSE OF DESIGNING ANCHORS FOR ATTACHMENT OF DEFERRED SUBMITTAL ITEMS.

1F) SUBMIT STAMPED STRUCTURAL CALCULATIONS FOR ALL DEFERRED SUBMITTAL ITEMS PRIOR TO OR CONCURRENTLY WITH DRAWINGS OR PRODUCT DATA. INCLUDE ANALYSIS OF ATTACHMENT TO PRIMARY STRUCTURE. INCLUDE CURRENT ICC REPORT WITH ALL PROPRIETARY STRUCTURAL ELEMENTS AND ANCHORS/FASTENERS.

1G) POWDER ACTUATED FASTENERS (PAF) INTO CONCRETE OR CMU SHALL NOT BE USED TO RESIST TENSION LOADS. POWDER ACTUATED FASTENERS SHALL NOT BE USED TO RESIST GRAVITY LOADS WHICH INCLUDE BRICK VENEER.

SUSTAINABILITY NOTES

1) GENERAL SUSTAINABILITY NOTES:
1A) THE MAXIMUM EMBODIED CARBON GOALS AND STEEL RECYCLED CONTENT GOALS SHOWN ON THE DRAWINGS AND THE ENVIRONMENTAL PRODUCT DECLARATION (EPD) SUBMITTAL REQUIREMENTS IDENTIFIED IN THE SPECIFICATIONS ARE PROJECT GOALS AND ARE NOT CONSTRUCTION CONTRACT REQUIREMENTS. IF THE CONSTRUCTION TRADES ARE NOT ABLE TO MEET THE LISTED SUSTAINABILITY GOALS FOR THE STRUCTURE AS DESIGNED, CONTACT THE ARCHITECT OR ENGINEER. IN THIS EVENT, THE DESIGN TEAM INVITES THE CONTRACTOR AND SUBCONTRACTOR TO COLLABORATE WITH THE ENGINEER ON ALTERNATIVES REVISING THE STRUCTURAL DESIGN DOCUMENT REQUIREMENTS THAT WILL RESULT IN REDUCTIONS IN OVERALL EMBODIED CARBON AND GLOBAL WARMING POTENTIAL (GWP) OF THE STRUCTURAL SYSTEMS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

1B) THE PROJECT HAS A GOAL OF REDUCING THE EMBODIED CARBON FOOTPRINT OVER A TYPICAL PROJECT BY 20%. TO ACCOMPLISH THIS GOAL, WE ARE TARGETING A CARBON FOOTPRINT REDUCTION FOR CONCRETE OF 35% OVER THE BENCHMARKS ESTABLISHED IN THE CONCRETE INDUSTRY'S CRADLE-TO-GATE LIFE CYCLE ASSESSMENT VERSION 3.1.

2) MAXIMUM EMBODIED CARBON GOALS:
2A) REFERENCE THE CONCRETE MIX AND STEEL MATERIAL TABLE FOR MAXIMUM EMBODIED CARBON GOALS FOR STRUCTURAL MATERIALS.

2B) LISTED EMBODIED CARBON GOALS ARE NOT A CONTRACT REQUIREMENT. IF THE CONTRACTOR CANNOT MEET THE LISTED EMBODIED CARBON GOALS, CONTACT THE ARCHITECT OR ENGINEER.

3) RECYCLED CONTENT GOALS:
3A) REFERENCE THE STEEL MATERIAL TABLE FOR RECYCLED CONTENT GOALS FOR STRUCTURAL STEEL MATERIALS.

3B) LISTED RECYCLED CONTENT GOALS ARE NOT A CONTRACT REQUIREMENT. IF THE CONTRACTOR CANNOT MEET THE LISTED RECYCLED CONTENT GOALS, CONTACT THE ARCHITECT OR ENGINEER.

4) ENVIRONMENTAL PRODUCT DECLARATIONS (EPDs):
4A) REFERENCE THE SPECIFICATIONS FOR ENVIRONMENTAL PRODUCT DECLARATION SUBMITTAL REQUIREMENTS.

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CONFLUENCE
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AQUATIC DESIGN CONSULTANT:
WATER TECHNOLOGY INC.
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ARCHITECT:
BRS ARCHITECTURE
990 S Broadway #222,
Denver, CO 80209
303.455.1366

CIVIL ENGINEER:
ROLLS ANDERSON & ROLLS
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Chico, CA 95973
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MARTIN/MARTIN CONSULTING ENGINEERS
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BARKER RINKER SEACAT ARCHITECTURE
brsarch.com

PERMIT REVIEW & BID SET ONLY
DOCUMENT PACKAGE NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

NOTES

S001

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MASONRY NOTES

1) DEFINITIONS:
1A) STRUCTURAL MASONRY IS DEFINED AS BEING EITHER LOAD BEARING AND/OR SERVING AS PART OF THE LATERAL LOAD RESISTING SYSTEM. STRUCTURAL MASONRY IS SHOWN ON THE STRUCTURAL PLANS AND DEFINED IN SCHEDULES AND DETAILS ON THE STRUCTURAL DRAWINGS.

1B) SEE ARCHITECTURAL DRAWINGS FOR LOCATION, THICKNESS AND EXTENT OF MASONRY PARTITIONS. SEE DETAILS ON THE STRUCTURAL DRAWINGS FOR GENERAL MASONRY PARTITION REQUIREMENTS.

1C) SEE ARCHITECTURAL DRAWINGS FOR ALL MASONRY VENEER REQUIREMENTS. SEE DETAILS ON THE STRUCTURAL DRAWINGS FOR MASONRY VENEER LOOSE LINTELS.

2) DESIGN STRENGTH:
2A) DEVELOP 2000 PSI COMPRESSIVE STRENGTH (f'm) IN 28 DAYS.

2B) STEEL REINFORCING:
- PRIMARY REINFORCING: ASTM A615, 60 KSI
- HORIZONTAL JOINT REINFORCING: ASTM A951, PREFABRICATED, LADDER TYPE

3) SPLICES:
3A) SEE MASONRY LAP SPLICE SCHEDULE FOR LAP LENGTHS.

4) INSTALLATION REQUIREMENTS:
4A) GROUT SOLID ALL CELLS CONTAINING REINFORCING, EMBEDDED ITEMS, AND ALL OTHER CELLS NOTED ON THE CONTRACT DOCUMENTS.

POST-INSTALLED ANCHOR NOTES

1) PERSONNEL REQUIREMENTS:
1A) THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. SUBMIT DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS HAVE PASSED THE TRAINING COURSE PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.

1B) PERSONNEL WHO WILL INSTALL HORIZONTAL OR UPWARDLY INCLINED ADHESIVE ANCHORS IN CONCRETE THAT SUPPORT SUSTAINED TENSION LOADS SHALL BE CERTIFIED BY THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM. THESE ANCHORS ARE DESIGNATED WITH A (CERT) AFTER THE ANCHOR CALL OUT. SUBMIT DOCUMENTED CONFIRMATION THAT PERSONNEL HAVE PASSED THE TRAINING COURSE PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.

2) INSTALLATION REQUIREMENTS:
2A) ALL POST-INSTALLED ANCHORS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS AND PER MANUFACTURER'S ON-SITE TRAINING.

2B) ALL ADHESIVE ANCHORS AND ADHESIVE ANCHORED REINFORCEMENT DESIGNS ARE FOR INSTALLATION IN THE FOLLOWING CONDITIONS, UNLESS NOTED OTHERWISE. WRITTEN APPROVAL MUST BE RECEIVED FROM ENGINEER PRIOR TO INSTALLATION IN ALTERNATE CONDITIONS.
- DRY CONCRETE, UNLESS NOTED OTHERWISE.
- CONCRETE TEMPERATURE AT TIME OF INSTALLATION THROUGH CURE TIME MUST BE WITHIN THE TEMPERATURE RANGE SPECIFIED IN MANUFACTURER'S PRINTED INSTALLATION INSTRUCTION FOR ADHESIVE GEL AND CURE TIMES.
- ANCHOR HOLES TO BE HAMMER DRILLED AND CLEANED.
- CONCRETE MUST BE AT LEAST 21 DAYS OLD BEFORE INSTALLATION OF ANCHORS.
- HOLES TO BE CLEANED AND PREPARED IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS AND EVALUATION REPORT PRIOR TO ADHESIVE INJECTION.

2C) THE POSITION OF EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE SHALL BE LOCATED PRIOR TO INSTALLING POST INSTALLED ANCHORS OR REINFORCEMENT. EXISTING REINFORCEMENT SHALL BE LOCATED USING A SCANNER, GPR, X-RAY, CHIPPING OR OTHER MEANS. DO NOT DAMAGE OR CUT EXISTING REINFORCEMENT.

3) SUBSTITUTION REQUESTS:
3A) SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS AND PRODUCT DATA DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS IN COMPLIANCE WITH THE RELEVANT BUILDING CODES, LOAD RESISTANCE, INSTALLATION CATEGORY, CREEP APPROVAL, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE OF THE SPECIFIED PRODUCT.

POST-INSTALLED ANCHOR TABLE - HILTI

ANCHOR TYPE	PRODUCT	Fy (KSI)	Fu (KSI)	COMMENT
ADHESIVE (IN CONCRETE)	HILTI HIT-HY 200 V3	-	-	SUBMIT CALCULATIONS FOR SUBSTITUTIONS
ADHESIVE (IN CONCRETE W/>12" EMBEDMENT)	HILTI HIT-RE 500 V3	-	-	SUBMIT CALCULATIONS FOR SUBSTITUTIONS
ADHESIVE (IN GROUTED OR HOLLOW MASONRY)	HILTI HIT-HY 270	-	-	SUBMIT CALCULATIONS FOR SUBSTITUTIONS
ADHESIVE ANCHOR RODS	-	36 MIN	58 MIN	THREADED ROD, UNGREASED
EXPANSION ANCHORS (IN CONCRETE)	HILTI KWIK BOLT TZ2	-	-	SUBMIT CALCULATIONS FOR SUBSTITUTIONS
EXPANSION ANCHORS (IN GROUTED MASONRY)	HILTI KWIK BOLT TZ2	-	-	SUBMIT CALCULATIONS FOR SUBSTITUTIONS
SCREW ANCHORS	HILTI KWIK HUS-EZ	-	-	SUBMIT CALCULATIONS FOR SUBSTITUTIONS

CONCRETE NOTES

1) GENERAL:
1A) ALL WORK SHALL CONFORM WITH ACI 301-10, UNLESS NOTED OTHERWISE IN DRAWINGS OR PROJECT SPECIFICATIONS.

1B) DETAIL BARS IN ACCORDANCE WITH THE DRAWINGS, PROJECT SPECIFICATIONS, AND ACI PUBLICATION SP-66 (2004): "ACI DETAILING MANUAL"

2) REINFORCING MATERIALS:
2A) SEE 'REINFORCING MATERIAL TABLE'

3) REINFORCING FABRICATION:
3A) SPLICES:
- NO SPLICING OF REINFORCEMENT PERMITTED EXCEPT AS NOTED ON DRAWINGS. MAKE BARS CONTINUOUS AROUND CORNERS WHERE DETAIL NOT PROVIDED. WHERE PERMITTED, SPLICES MAY BE MADE BY CONTACT LAPS OR MECHANICAL CONNECTORS.
- SEE 'LAP SPLICE SCHEDULE' FOR LAP LENGTHS.
- SPLICE CONTINUOUS TOP AND BOTTOM BARS IN WALLS, BEAMS, AND GRADE BEAMS 'LTS' UNLESS NOTED OTHERWISE.
- SPLICE TOP BARS AT MIDSPAN AND BOTTOM BARS OVER SUPPORT UNLESS NOTED OTHERWISE.

3B) MISCELLANEOUS REINFORCING REQUIREMENTS:
- PROVIDE ADDITIONAL BARS OR STIRRUPS REQUIRED TO SECURE REINFORCING IN PLACE DURING CONCRETE PLACEMENT.
- MAKE ALL REINFORCING BAR BENDS IN THE FABRICATOR'S SHOP UNLESS NOTED.
- NO WELDING OF REINFORCING PERMITTED UNLESS NOTED ON DRAWINGS. WHERE PERMITTED, PERFORM WELDING IN ACCORDANCE WITH AWS D1.4-2011.
- PROVIDE ADDED REINFORCING TO TRIM ALL OPENINGS, NOTCHES, AND REENTRANT CORNERS AS NOTED IN TYPICAL DETAILS.

4) STRUCTURAL CONCRETE MIX REQUIREMENTS:
4A) SEE 'CONCRETE MIX TABLE'

5) SLAB-ON-GRADE:
5A) VERIFY ALKALINITY OF CONCRETE SURFACE, SLAB VAPOR TRANSMISSION, AND SLAB FLATNESS/LEVELNESS ARE COMPATIBLE WITH FLOORING SYSTEM AND ADHESIVES PRIOR TO INSTALLING FLOORING.

5B) TAKE PRECAUTIONS TO MINIMIZE SLAB CURLING. GRIND SLAB OR USE LEVELING COMPOUND IF FLOOR FLATNESS AND LEVELNESS VALUES ARE NOT ACCEPTABLE TO THE ARCHITECT.

6) NON-SHRINK GROUT:
6A) CONFORM TO ASTM C1107

6B) ACHIEVE 6000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.

7) PLACING REINFORCEMENT:
7A) REINFORCEMENT PROTECTION:
- SEE 'REBAR COVER TABLE'
- SEE ACI 117-10 FOR REINFORCEMENT PLACING TOLERANCES

7B) PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING AND WELDED WIRE REINFORCEMENT AT POSITIONS SHOWN ON PLANS. ALL REINFORCING, DOWELS, BOLTS, AND EMBEDDED PLATES SHALL BE SET AND TIED IN PLACE BEFORE THE CONCRETE IS POURED. "STABBING" INTO PREVIOUSLY PLACED CONCRETE IS NOT PERMITTED.

8) CONSTRUCTION/CONTROL JOINTS:
8A) SUBMIT DRAWINGS SHOWING CONSTRUCTION AND CONTROL JOINT LOCATIONS ALONG WITH THE SEQUENCE OF POURS. CONSTRUCTION JOINT LOCATIONS AND CASTING SEQUENCE SHALL BE ARRANGED TO MINIMIZE THE EFFECTS OF ELASTIC AND LONG-TERM SHORTENING/SHRINKAGE.

8B) CONSTRUCTION JOINTS IN SLABS-ON-GRADE SHALL BE LOCATED TO ACCOMMODATE THE MAXIMUM LENGTH AND AREA THE CONTRACTOR CAN REASONABLY POUR, FINISH, AND JOINT IN THE SAME DAY, BUT SHALL NOT EXCEED 150 FEET WITH A MAXIMUM AREA OF 15,000 SQUARE FEET UNLESS APPROVED BY THE ENGINEER.

8C) CONCRETE CONSTRUCTION JOINT SURFACE SHALL BE CLEANED AND ALL LAITANCE AND LOOSE MATERIAL REMOVED PRIOR TO SECOND CONCRETE PLACEMENT.

9) MODIFICATIONS TO HARDENED OR EXISTING CONCRETE
9A) UNLESS NOTED ON THE STRUCTURAL DOCUMENTS MODIFICATIONS AS LISTED BELOW SHALL NOT BE MADE TO HARDENED OR EXISTING CONCRETE WITHOUT APPROVAL OF THE ARCHITECT:
- SAW CUTTING
- CORING
- CHIPPING

9B) DO NOT CUT OR DAMAGE ANY REINFORCING WITHOUT APPROVAL OF THE ARCHITECT

10) SLEEVES, OPENINGS, AND EMBEDED PIPE/CONDUITS:
10A) GENERAL
- REFER TO TYPICAL DETAILS FOR REQUIREMENTS FOR CONDUIT AND PIPE EMBEDDED IN WALLS AND SLABS
- REFER TO TYPICAL DETAILS FOR SPACING AND LAYOUT LIMITATIONS FOR SLEEVES AND OPENINGS
- FORM OPENINGS AND PROVIDE SLEEVES BEFORE PLACING CONCRETE, CORING OF CONCRETE IS NOT PERMITTED
- AT COMPOSITE SLABS DO NOT CUT DECK FOR AT LEAST 7 DAYS AFTER CONCRETE PLACEMENT

10B) REINFORCING
- REFER TO TYPICAL DETAILS FOR REINFORCEMENT REQUIREMENTS AT SLEEVES, OPENINGS OR CONDUIT
- DO NOT CUT REINFORCING WHICH MAY CONFLICT

10C) DRAWINGS AND WILL NOT CONSIDER ADDITIONAL STEEL REQUIRED FOR ERECTION.

CONCRETE MIX TABLE

CONC MIX TYPE	INTENDED USE	EXPOSURE CATEGORIES AND CLASSES	COMPRES-SIVE STRENGTH f'c (KSI)	TEST AVG (DAYS)	CONC WEIGHT	MAX W/C RATIO, INCLUDING SCM, NOTE 7	MAX AGGRE-GATE SIZE (IN), NOTE 3	TOTAL AIR CONTENT (%), NOTE 4	OTHER REQTS	MAXIMUM EMBODIED CARBON GOAL (kg CO2e/YD3) NOTE 5
1	FOOTINGS	F0, S0, W1, C1	3	28	NWC	-	1	-	-	207
2	INTERIOR SLABS-ON-GRADE	F0, S0, W0, C0	3	56	NWC	0.45	1	NP	FRC	207
3	HOUSEKEEPING PAD	F0, S0, W0, C0	4	28	NWC	0.45	1	-	-	301
4	BASEMENT AND RETAINING WALLS AND THEIR FOUNDATIONS, SURGE TANK WALLS, FLOORS, AND LIDS	F0, S0, W2, C2	5	28	NWC	0.40	3/4	-	XWA	484
5	ALL CONCRETE OTHERWISE NOT SPECIFIED	F3, S0, W1, C2	5	28	NWC	0.40	3/4	6	-	358

CONCRETE MIX TABLE NOTES:
1) CONCRETE MIX DESIGNS ARE A PERFORMANCE SPECIFIED ITEM DESIGNED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE A CONCRETE MIX MEETING THE PERFORMANCE REQUIREMENTS SPECIFIED IN THE "CONCRETE MIX TABLE" IN ADDITION TO THE REQUIREMENTS BELOW

2) PROPORTIONS OF MATERIALS IN CONCRETE MIXES SHALL BE ESTABLISHED TO:

2A) PROVIDE THE MINIMUM COMPRESSIVE STRENGTH AS INDICATED IN THE MIX TABLE. DO NOT EXCEED THE MAXIMUM WATER-CEMENT RATIO

2B) PROVIDE WORKABILITY AND CONSISTENCY FOR SLAB FINISHING AND TO PERMIT CONCRETE TO BE WORKED READILY INTO FORMS AND AROUND REINFORCEMENT UNDER CONDITIONS OF PLACEMENT TO BE EMPLOYED WITHOUT SEGREGATION OR EXCESSIVE BLEEDING. CONTRACTOR SHALL SELECT APPROPRIATE SLUMP. USE ADMIXTURES AS REQUIRED TO OBTAIN DESIRED RESULTS

2C) FOR CONCRETE PLACED BY PUMPING, PROVIDE CONCRETE MIX FLOWABILITY TO FACILITATE PUMPING. ENTRAINED AIR MAY BE USED TO FACILITATE PUMPING SUBJECT TO THE PROVISIONS OF NOTE 4 BELOW

3) FOR THE MAXIMUM COARSE AGGREGATE SIZE INDICATED, USE THE FOLLOWING AGGREGATE SIZE NUMBERS PER ASTM C33:
- 3/4": #67 AGGREGATE
- 1": #57 AGGREGATE

4) FOR EXPOSED CONCRETE FLOORS, THE CONTRACTOR SHALL ENSURE THE FLOOR FINISH IS ACCEPTABLE TO THE ARCHITECT AND OWNER WITH THE SELECTED CEMENT TYPE, CEMENT CONTENT, AND FINISHING PROCEDURE

5) MAXIMUM EMBODIED CARBON GOALS (CO2e/YD3) MAY BE ACHIEVED BY ANY MATERIAL CARBON REDUCTION METHOD CHOSEN BY THE CONTRACTOR INCLUDING, BUT NOT LIMITED TO, SUPPLEMENTARY CEMENTITIOUS MATERIALS, RECYCLED AGGREGATES WHERE ALLOWED BY SPECIFICATIONS, OR CARBON SEQUESTERING TECHNOLOGIES. SEE SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS.

6) SEE SPECIFICATIONS FOR SUPPLEMENTARY CEMENTITIOUS MATERIAL (SCM) REQUIREMENTS

7) BASED ON THE SULFATE CLASSIFICATIONS LISTED IN THE "CONCRETE MIX TABLE" THE FOLLOWING CEMENTS SHALL BE USED. SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS:

7A) S0 SULFATE CLASSIFICATION: PORTLAND CEMENT ASTM C150 TYPE I/II OR BLENDED HYDRAULIC CEMENT ASTM C595 TYPES

8) FOR CONCRETE MIXTURES ASSIGNED TO W1 OR W2 CLASSES, EVIDENCE SHALL BE SUBMITTED THAT THE CONCRETE MIXTURE COMPLIES WITH THE FOLLOWING

8A) AGGREGATES ARE NOT ALKALI-SILICA REACTIVE OR MEASURES TO MITIGATE ALKALI-SILICA REACTIVITY HAVE BEEN ESTABLISHED

8C) AGGREGATES ARE NOT ALKALI-CARBONATE REACTIVE

9) MAXIMUM CHLORIDE ION LIMITS (PERCENTAGE BY MASS OF CEMENTITIOUS MATERIALS INCLUDING SCM) ASSOCIATED WITH EXPOSURE CLASS IN "CONCRETE MIX TABLE" ARE AS FOLLOWS:
- C0 = 1.00
- C1 = 0.30
- C2 = 0.15

10) ANY STRUCTURAL CONCRETE ELEMENT WITH MINIMUM DIMENSION GREATER THAN 3'-0" ARE CONSIDERED MASS CONCRETE ELEMENTS. SEE THERMAL CONTROL PLAN IN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

CONCRETE MIX TABLE ABBREVIATIONS:
- FX = FREEZING AND THAWING CLASS
- SX = SULFATE CLASS
- WX = IN CONTACT WITH WATER CLASS
- CX = CORROSION PROTECTION OF REINFORCEMENT CLASS
- FF = FLOW FILL SHALL BE PROPORTIONED TO PROVIDE INDICATED STRENGTH, AND SHALL BE SELF-COMPACTING. MAXIMUM STRENGTH SHALL BE 150 PSI. COMPLY WITH NRMCA "GUIDE SPECIFICATION FOR CONTROLLED LOW STRENGTH MATERIALS (CLSM)" AND ACI 229R
- FRC = FIBER REINFORCED CONCRETE, SEE SPECIFICATIONS FOR REQUIREMENTS
- LWC = LIGHTWEIGHT CONCRETE
- MSS = MAXIMUM SHRINKAGE STRAIN LIMITED, SEE SPECIFICATIONS
- NWC = NORMAL WEIGHT CONCRETE
- SCC = SELF CONSOLIDATING CONCRETE, SLUMP FLOW = 26"±4"
- SCM = SUPPLEMENTARY CEMENTITIOUS MATERIAL
- SVT = SLAB VAPOR TRANSMISSION, CONTRACTOR SHALL PROVIDE CONCRETE WITH REDUCED WATER IN ORDER TO ACHIEVE SLAB VAPOR TRANSMISSION REQUIRED FOR THE SPECIFIED FLOORING MATERIALS, COORDINATE REQUIREMENTS WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS
- XWA= XYPEX CONCRETE WATERPROOFING ADMIXTURE

GENERAL NOTES

1) GENERAL:
1A) ENGINEER: REFERENCES ON THE STRUCTURAL DRAWINGS TO 'ENGINEER' MEAN THE STRUCTURAL ENGINEER OF RECORD. OTHER ENTITIES ARE SPECIFICALLY NOTED AS "CONTRACTOR'S ENGINEER", "MECHANICAL ENGINEER", ETC.

1B) THESE NOTES SUPPLEMENT THE SPECIFICATIONS, WHICH SHALL BE REFERENCED FOR ADDITIONAL REQUIREMENTS.

1C) UNDERGROUND UTILITIES: LOCATE EXISTING UTILITIES AND NOTIFY ARCHITECT OF EXISTING UTILITIES OR SUBGRADE CONDITIONS WHICH INTERFERE WITH WORK.

1D) STRUCTURAL ELEMENTS ARE CENTERED ON GRID LINES AND GRID LINE INTERSECTIONS UNLESS DIMENSIONED OTHERWISE.

2) USE OF DRAWINGS:
2A) DO NOT SCALE DRAWINGS.

2B) DETAILS ON DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.

2C) DETAILS NOTED TYPICAL APPLY TO ALL SIMILAR CONDITIONS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ELSEWHERE ON THE PROJECT.

2D) WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES AND SPECIFICATIONS:
- CONTACT THE ARCHITECT PRIOR TO PROCEEDING WITH CONSTRUCTION
- THE MORE STRINGENT REQUIREMENTS SHALL GOVERN FOR BIDDING / PRICING

3) COORDINATION:
3A) STRUCTURAL DRAWINGS ARE NOT STAND-ALONE DOCUMENTS AND ARE INTENDED TO BE USED IN CONJUNCTION WITH CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND DRAWINGS FROM OTHER DISCIPLINES. THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS INTO SHOP DRAWINGS AND WORK.

3B) COORDINATE DIMENSIONS OF ALL OPENINGS, BLOCKOUTS, DEPRESSIONS, ETC., WITH ARCHITECTURAL DRAWINGS, DRAWINGS FROM OTHER DISCIPLINES, AND FIELD CONDITIONS PRIOR TO SHOP DRAWING SUBMITTAL.

3C) SEE ARCHITECTURAL PLANS FOR INTERIOR PARTITIONS. PARTITION FRAMING SHALL BE CONNECTED TO THE PRIMARY STRUCTURE IN SUCH A WAY SO AS TO ALLOW FOR VERTICAL LIVE LOAD DEFLECTIONS OF {SPAN/360} AT FLOOR FRAMING OR {SPAN/240} AT ROOF FRAMING. DO NOT MAKE RIGID VERTICAL AND HORIZONTAL CONNECTIONS TO THE PRIMARY STRUCTURE IN THE PLANE OF THE PARTITION.

4) SUBMITTALS AND SUBSTITUTIONS:
4A) SUBMITTALS: REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS.
- IF THE CONTRACTOR REQUESTS A CHANGE FROM THE STRUCTURAL DRAWINGS, IT SHALL BE APPROVED BY THE ARCHITECT AND DESIGNED BY MARTIN/MARTIN, INC. PRIOR TO SUBMITTING SHOP DRAWINGS. VARIATION SHALL BE INDICATED ON THE SHOP DRAWINGS. CONTRACTOR SHALL COMPENSATE MARTIN/MARTIN, INC. FOR MAKING THE CHANGE.
- CONSTRUCTION DOCUMENTS SHALL NOT BE REPRODUCED FOR USE IN SUBMITTALS
- ALL SHOP DRAWINGS SHALL REFERENCE THE STRUCTURAL DRAWING NUMBER AND DETAIL USED TO PREPARE THE SUBMITTAL
- SUBMIT A STATEMENT OF RESPONSIBILITY FOR CONSTRUCTION OF THE LATERAL LOAD RESISTING SYSTEM IDENTIFIED IN THE DESIGN CRITERIA IN ACCORDANCE WITH CBC 2022 SECTION 1704

4B) SUBSTITUTIONS: ARCHITECT'S APPROVAL SHALL BE SECURED FOR ALL SUBSTITUTIONS

4C) NONCONFORMANCE: NOTIFY ARCHITECT OF CONDITIONS NOT CONSTRUCTED PER THE CONTRACT DOCUMENTS PRIOR TO PROCEEDING WITH CORRECTIVE WORK. SUBMIT PROPOSED REPAIR TO THE ARCHITECT FOR ACCEPTANCE. CONTRACTOR SHALL COMPENSATE MARTIN/MARTIN, INC. FOR DESIGNING THE REPAIR.

4D) ALL SHOP DRAWINGS SHALL BE SUBMITTED IN ELECTRONIC FORMAT ONLY.

5) TEMPORARY CONDITIONS, CONSTRUCTION ENGINEERING, AND OSHA STANDARDS:
5A) THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION AND ONLY FOR LOADS ANTICIPATED DURING THE STRUCTURE'S SERVICE LIFE.

5B) THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES. REFER TO "LATERAL LOAD RESISTING SYSTEM DESCRIPTION" IN DESIGN CRITERIA FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL PROVIDE ALL REQUIRED ENGINEERING AND OTHER MEASURES TO ACHIEVE THE MEANS, METHODS, AND SEQUENCES OF WORK WHICH MAY INCLUDE, BUT IS NOT LIMITED TO:
- LAYOUT
- DESIGN FOR FORMWORK, SHORING, AND RESHORING
- DESIGN OF CONCRETE MIXES
- ERECTION PROCEDURES WHICH ADDRESS STABILITY OF THE FRAME DURING CONSTRUCTION
- WELD PROCEDURES
- DESIGN OF TEMPORARY BRACING OF WALLS FOR WIND, SEISMIC, OR SOIL LOADS
- SURVEYING TO VERIFY CONSTRUCTION TOLERANCES
- EVALUATION OF TEMPORARY CONSTRUCTION LOADS ON STRUCTURE DUE TO EQUIPMENT AND MATERIALS
- STRUCTURAL ENGINEERING TO RESIST ANY OTHER LOADS NOT IDENTIFIED ON DESIGN DRAWINGS

5C) CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.

5D) FOUNDATION WALLS SHALL NOT BE BACKFILLED UNTIL THE SLABS-ON-GRADE AND UPPER SLABS ARE IN-PLACE AND REACH FULL STRENGTH UNLESS ADEQUATE BRACING IS PROVIDED. USE ONLY HAND OPERATED TOOLS FOR COMPACTION ADJACENT TO FOUNDATION WALLS AND GRADE BEAMS. GRADE BEAMS SHALL BE BACKFILLED EVENLY ON BOTH SIDES.

5E) NOTHING SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE CONSTRUED AS ELIMINATING THE NEED FOR THE CONTRACTOR TO COMPLY WITH ALL OSHA REQUIREMENTS. WHERE THE STRUCTURAL DRAWINGS APPEAR TO CONFLICT WITH OSHA REQUIREMENTS, THE STRUCTURAL DRAWINGS REPRESENT FINAL CONDITIONS ONLY.
- THE CONTRACTOR SHALL ADD ALL ERECTION FRAMING NECESSARY TO COMPLY WITH OSHA.
- THE CONTRACTOR SHALL ADD ALL NECESSARY BOLTS, ANCHOR BOLTS, PLATES, STIFFENER PLATES, STABILIZER PLATES, BRIDGING, BRACING, BEARING SEATS, COLUMN SPLICES, ETC., AS WELL AS CLOSURES FOR OPENINGS. IN ADDITION, FIELD WELD ANYTHING THAT MAY BE CONSIDERED A TRIP HAZARD, SUCH AS SHEAR STUDS, AFTER PROTECTIVE DECKING IS INSTALLED.
- WASHERS OR RINGS MAY BE WELDED TO COLUMNS TO PROVIDE FOR SAFETY CABLES. HOLES IN COLUMNS FOR SAFETY CABLES SHALL BE SHOP INSTALLED AND SHALL BE INDICATED ON SHOP DRAWINGS. ADJUST COLUMN SPLICE LOCATIONS OR ADD COLUMN SPLICES AS NECESSARY TO COMPLY WITH OSHA REQUIREMENTS. SUBMIT PROPOSED LOCATIONS.

FOUNDATION NOTES

1) DESIGN CRITERIA:
THE GEOTECHNICAL REPORT PREPARED BY NV5, NUMBER 125623-0071370.00.001, DATED 11/21/2023 PROVIDED CRITERIA FOR THE FOUNDATION DESIGN FOR THE PROJECT.

2) FOOTINGS:
2A) FOOTING DESIGN CRITERIA:
- MAXIMUM TOTAL LOAD BEARING PRESSURE (DEAD + LIVE) = 2,500 PSF
- MAXIMUM TOTAL LOAD BEARING PRESSURE (DEAD + LIVE + WIND/SEISMIC) = 3,325 PSF
- MINIMUM CONTINUOUS FOOTING WIDTH = 12 IN
- ULTIMATE COEFFICIENT OF FRICTION TO RESIST LATERAL LOADS = 0.35
- FROST DEPTH TO BOTTOM OF FOUNDATION = 18 IN

3) SITE RETAINING WALLS:
3A) EQUIVALENT FLUID PRESSURES USED FOR WALL DESIGN:
- "ACTIVE" CONDITION = 50 PCF
- "AT REST" CONDITION = 60 PCF
- "PASSIVE" CONDITION = 275 PCF
- ULTIMATE COEFFICIENT OF FRICTION TO RESIST LATERAL LOADS = 0.35

3B) EQUIVALENT FLUID PRESSURES USED FOR SEISMIC LOADING ON WALL:
- "ACTIVE" CONDITION = 6 PCF
- "AT REST" CONDITION = 15 PCF
- "PASSIVE" CONDITION = 6 PCF

3C) WALL DESIGN BASED ON IMPORTED GRANULAR BACKFILL ADJACENT TO FOUNDATION WALLS. SEE GEOTECHNICAL REPORT FOR REQUIREMENTS.

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number 23030
Issue PERMIT & BID SET
Date 2025-01-24
NOTES

S002

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WOOD NOTES

1) LAMINATED MEMBER SIZES:
1A) (LVL, PSL, LSL, GLU-LAM), AND OTHER FABRICATED MEMBERS (TJI) SIZES SHOWN ARE NET. OTHER MEMBER SIZES ARE NOMINAL.

2) FRAMING LUMBER:
2A) DRY (19% MAXIMUM MOISTURE CONTENT AT THE TIME OF INSTALLATION), DOUGLAS FIR-LARCH WITH MINIMUM DESIGN VALUES BASED ON THE 2018 NDS. SEE 'FRAMING LUMBER TABLE' FOR MINIMUM GRADES.

2B) BEAMS AND STRINGERS USED WITH CANTILEVERS OR CONTINUOUS SPANS SHALL BE GRADED TO PROVIDE THE SPECIFIED ALLOWABLE STRESSES OVER THE ENTIRE MEMBER LENGTH.

3) FABRICATED LUMBER:
3A) FABRICATED LUMBER DESIGNATIONS ARE THOSE MANUFACTURED BY iLEVEL, BOISE, IDAHO.

3B) FABRICATED LUMBER IS DESIGNATED ON THE DRAWINGS AS ONE OF THE FOLLOWING: TJI JOISTS, MICROLLAM (LVL), PARALLAM (PSL), TIMBERSTRAND (LSL) OR RIMBOARD.

3C) THE MANUFACTURER SHALL PROVIDE WEB STIFFENERS ON I-JOISTS, END BLOCKING, BRIDGING, AND ERECTION BRACING AS REQUIRED. SEE "DESIGN CRITERIA" FOR DESIGN DEAD AND LIVE LOADS.

3D) FABRICATED LUMBER SHALL BE DRY.

3E) SEE 'FABRICATED LUMBER TABLE' FOR MINIMUM PROPERTIES (AT NORMAL LOAD DURATIONS).

3F) FABRICATED RIMBOARD SHALL BE LAMINATED STRAND LUMBER.

3G) SEE 'RIMBOARD TABLE' FOR MINIMUM PROPERTIES.

4) SHEATHING:
4A) PLYWOOD:
- CONFORM TO U.S. DEPARTMENT OF COMMERCE STANDARD PS 1-10.

5) METAL PLATE CONNECTED WOOD TRUSS BRACING:
5A) ALL PERMANENT BRACING DESIGN, LOCATIONS, AND DETAILS SHALL BE SHOWN ON THE CALCULATIONS AND ERECTION DRAWINGS PROVIDED BY THE CONTRACTOR. PROVIDE MINIMUM BRACING SHOWN ON THE CONTRACT DOCUMENTS.

6) BLOCKING AND BRIDGING:
6A) PROVIDE 1" X 4" SIMPSON NC/NCA CROSS-BRIDGING AT 8' O.C. MAXIMUM SPACING FOR ALL SOLID SAWN WOOD JOISTS AND RAFTERS. PROVIDE FULL HEIGHT SOLID BLOCKING (MINIMUM WIDTH TO MATCH WIDTH OF FRAMING) BETWEEN ALL FRAMING MEMBERS (SOLID SAWN JOISTS AND RAFTERS, FABRICATED JOISTS AND RAFTERS AND TRUSSES) AT SUPPORTS.

7) NAILING:
7A) UNLESS NOTED OTHERWISE ON THE DRAWINGS, PROVIDE BOX NAILS WITH SIZES SHOWN IN THE TABLE BELOW. MINIMUM NAILING SHALL BE IN ACCORDANCE WITH THE TYPICAL WOOD CONNECTION SCHEDULE AND CBC 2022 TABLE 2304.10.1

7B) WHERE COMMON NAILS ARE SPECIFIED, BOX NAILS OF EQUAL LENGTH MAY BE SUBSTITUTED PROVIDED ONE BOX NAIL IS ADDED FOR EVERY THREE COMMON NAILS SPECIFIED.

8) METAL CONNECTORS:
8A) FRAMING CONNECTORS SHALL CONFORM TO CBC 2022 SECTION 2303.5 FRAMING CONNECTOR DESIGNATIONS ARE THOSE MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, SAN LEANDRO, CALIFORNIA. OTHER MANUFACTURER'S PRODUCTS MAY BE USED IF APPROVED BY THE ENGINEER. FURNISH NAILS AND/OR BOLTS OF DIAMETER, LENGTH, AND NUMBER SPECIFIED BY THE MANUFACTURER FOR EACH CONNECTOR.

8B) ALL CONNECTOR HOLES SHALL BE FILLED WITH PROPER NAILS/BOLTS INCLUDING OPTIONAL NAIL LOCATIONS FOR UPLIFT. ALL BOLT HOLES SHALL BE DRILLED INTO FRAMING MEMBERS. MAXIMUM HOLE DIAMETER IS 1/16" LARGER THAN THE BOLT DIAMETER.

9) OPENINGS:
9A) OPENING, POCKETS, ETC., SHALL NOT BE PLACED IN BEAMS, JOISTS, RAFTERS, STUDS, POSTS, COLUMNS, TIMBER AND OTHER STRUCTURAL MEMBERS UNLESS DETAILED ON THE STRUCTURAL DRAWINGS.

FABRICATED LUMBER TABLE

PRODUCT	DEPTH	TYPE	MR (FT-LBS)	VR (LBS)	EI (x10^6 IN^2-LBS)	3 1/2" END REACTION (LBS)	INTERMEDIATE REACTION (LBS)	REMARKS
20" TJI-560	20"	I-JOIST	26,890	5,280	2,064	2,680	5,425	WEB STIFF REQD
22" TJI-560D	22"	I-JOIST	30,060	5,690	2,606	3,370	7,255	WEB STIFF REQD
7 1/4" LVL	7 1/4"	BEAM	3,555	2,410	112	2,480	2,480	-
9 1/4" LVL	9 1/4"	BEAM	5,600	3,075	230	2,480	2,480	-
9 1/2' LVL	9 1/2"	BEAM	5,885	3,160	250	2,480	2,480	-
11 1/4" LVL	11 1/4"	BEAM	8,070	3,740	416	2,480	2,480	-
11 7/8" LVL	11 7/8"	BEAM	8,925	3,950	488	2,480	2,480	-
14" LVL	14"	BEAM	12,130	4,655	800	2,480	2,480	-
5 1/4" PSL	9 1/2"	BEAM	19,585	9,645	750	-	-	-
5 1/4" PSL	11 1/4"	BEAM	26,955	11,420	1,246	-	-	-
5 1/4" PSL	11 7/8"	BEAM	37,317	15,066	1612	-	-	-

NOTES:
1. FABRICATED LUMBER DESIGNATIONS ARE THOSE MANUFAFCTURED BY WEYERHAUSER.
2. LVL = 2.0E MICROLLAM LVL (WIDTH = 1 3/4")
3. PSL = 2.2E PARALLAM PSL

FRAMING LUMBER SCHEDULE - DOUGLAS FIR-LARCH (DF-L)

TYPE OF USE	GRADE	Fb (PSI)	Fv (PSI)	E (PSI)
EXTERIOR STUDS	NO. 2	900	180	1,600,000
LOAD BEARING STUDS (AND COLUMNS ASSEMBLED FROM STUDS)	NO. 2	900	180	1,600,000
NON-LOAD BEARING STUDS	STUD	700	180	1,400,000
FLOOR-JOIST	NO. 2	900	180	1,600,000
ROOF JOIST & RAFTERS	NO. 2	900	180	1,600,000
BEAMS & STRINGERS	NO. 1	1,350	170	1,600,000
POSTS & TIMBER	NO. 1	1,200	170	1,600,000
EXPOSED FRAMING	NO. 1	1,000	180	1,700,000
DECKING	SELECT DX	2,000	-	1,800,000
ALL OTHER	NO. 1	1,000	180	1,700,000

APA RATED SHEATHING

PANEL SPAN RATING	PANEL THICKNESS
24/16	7/16"
32/16	15/32", 1/2"
40/20	19/32", 5/8"
48/24	23/32", 3/4"

APA RATED STURD-I-FLOOR

PANEL SPAN RATING	PANEL THICKNESS
24oc	23/32", 3/4"
32oc	7/8"

FASTENER SCHEDULE

FASTENER	DIAMETER	HEAD DIAMETER	LENGTH
8d COMMON NAIL	0.131"	0.281"	2.5"
10d COMMON NAIL	0.148"	0.312"	3"
12d COMMON NAIL	0.148"	0.312"	3.25"
16d COMMON NAIL	0.162"	.344"	3.5"
0.131"Ø NAIL	0.131"	0.281"	2.5"

STEEL NOTES

1) CONNECTIONS:
1A) PROVIDE CONNECTIONS AS SHOWN IN THE 'STEEL BEAM CONNECTION SCHEDULES' AND DETAILS HEREIN. REFER TO SPECIFICATION FOR ALTERNATIVES AND CONNECTIONS NOT SHOWN.

2) STEEL MATERIALS:
2A) SEE 'STEEL MATERIAL TABLE'

3) WELDING REQUIREMENTS:
3A) WELDERS: HAVE IN POSSESSION CURRENT EVIDENCE OF PASSING THE APPROPRIATE AWS. QUALIFICATION TESTS.

3B) MINIMUM WELDS: AISC SPECIFICATION, NOT LESS THAN 3/16" FILLET, CONTINUOUS UNLESS OTHERWISE NOTED.

3C) WELD SIZES AND LENGTHS CALLED FOR ON THE DRAWINGS ARE THE NET EFFECTIVE REQUIRED. INCREASE WELD SIZE IF GAPS EXIST AT THE FAYING SURFACE.

3D) WELD SIZES SHALL BE AS SHOWN UNLESS A GREATER SIZE IS REQUIRED BY ANSI/AISC 360-05 TABLES J2.3 AND J2.4.

3E) ALL GROOVE WELDS SHALL BE COMPLETE PENETRATION UNLESS NOTED.

3F) FIELD WELDING SYMBOLS INDICATE SEQUENCE CONSIDERED DURING DESIGN. THE CONTRACTOR SHALL REQUEST APPROVAL FROM THE ENGINEER TO MODIFY WELD INSTALLATION LOCATION INDICATED ON THE DOCUMENTS:
- FROM SHOP TO FIELD
- FROM FIELD TO SHOP

3G) DEFORMED ANCHOR STUDS (DAS) AND HEADED ANCHOR STUDS (HAS / HDAS) SHALL BE SHOP OR FIELD WELDED AT CONTRACTOR'S OPTION UNLESS NOTED OTHERWISE

4) STRUCTURAL STEEL INSTALLATION:
4A) UNLESS INDICATED OTHERWISE, SNUG TIGHTEN ALL JOINTS AS DEFINED BY AISC
- CONNECTIONS AS INDICATED BELOW SHALL BE PRETENSIONED PER TABLE J3.1 OF ANSI/ AISC 360-16
- WHERE NOTED ON THE DRAWINGS AS "PT"

4B) CONNECTIONS NOTED ON THE DRAWINGS AS "SC" SHALL MEET THE FOLLOWING REQUIREMENTS:
- FAYING SURFACES SHALL BE: CLASS A PER AISC UNLESS NOTED OTHERWISE
- BOLTS SHALL BE PRETENSIONED PER TABLE J3.1 OF ANSI/ AISC 360-16

STEEL MATERIAL TABLE

STEEL ELEMENT	ASTM/TYPE	Fy (KSI)	Fu (KSI)	SUSTAINABILITY GOALS - NOTE 1	COMMENTS
ANCHOR RODS AND THROUGH BOLTS	F1554 GR 55	55	75	-	WELDABLE, HEAVY HEX HEADED
ANCHOR RODS IN MASONRY	F1554 GR 36	36	58	-	WELDABLE, STD HEX HEAD
BOLTS	F3125 - TYPE A325 OR F1852	-	120	-	BOLTS ARE 3/4"Ø UNO, USE TENSION- CONTROLLED WHERE POSSIBLE
CHANNELS ≤ 12" DEEP	ASTM A572	50	65	EC: 1.35 / RC: 75%	-
CHANNELS > 12" DEEP	ASTM A992	50	65	EC: 1.35 / RC: 75%	-
COLD-FORMED STUDS/PLATE, 33 AND 43 MIL	A1003	33	-	EC: 2.65 / RC: 50%	-
COLD-FORMED STUDS/PLATE, 54 MIL AND HEAVIER	A1003	50	-	EC: 2.65 / RC: 50%	-
COLD-FORMED TRACK, ALL THICKNESSES	A1003	33	-	EC: 2.65 / RC: 50%	-
DAS - 3/8" TO 5/8"	A1064	70	80	-	-
DAS - 3/4"/#6 AND LARGER	A706	60	80	-	-
HAS	A108	51	65	-	STUDS ARE 3/4"Ø UNO
METAL DECKING	A1008/A653	50	-	EC: 2.60 / RC: 50%	-
OTHER SHAPES	A572	50	65	EC: 1.35 / RC: 50% UNO	ANGLE RC: 75%
PIPE 12" AND SMALLER	A500 GR B	42	58	EC: 2.20 / RC: 50%	-
PLATES	A572	50	65	EC: 1.90 / RC: 50%	-
RECT HSS	A500 GR C	50	62	EC: 2.20 / RC: 50%	-
ROUND HSS	A500 GR C	46	62	EC: 2.20 / RC: 50%	-
WELDING ELECTRODES, THICKNESS OF THINNER PART > 0.1 INCHES (12 GA)	E70	-	-	-	PER AWS
WELDING ELECTRODES, THICKNESS OF THINNER PART ≤ 0.1 INCHES (12 GA)	E60 OR E70	-	-	-	PER AWS
WELDING ELECTRODES, WELDING REBAR	E80	-	-		PER AWS
WF, WT	A992	50	65	EC: 1.35 / RC: 75%	-

NOTES:
1. STEEL MATERIAL SUSTAINABILITY GOALS ARE LISTED AS EC: MAXIMUM EMBODIED CARBON GOAL / RC: RECYCLED CONTENT AS LISTED BELOW. SEE SUSTAINABILITY GENERAL NOTES FOR ADDITIONAL INFORMATION
   A. EC: MAXIMUM EMBODIED CARBON GOALS (kg CO2e/kg) MAY BE ACHIEVED BY ANY MATERIAL CARBON REDUCTION METHOD CHOSEN BY THE CONTRACTOR INCLUDING, BUT NOT LIMITED TO, RECYCLED CONTENT, FURNACE TYPE AND EFFICIENCY, OR USE OF RENEWABLE ENERGY SOURCES. TOTAL EMBODIED CARBON OF STEEL PRODUCTS SHALL INCLUDE FABRICATION STAGE OF PRODUCTION (CRADLE-TO-FABRICATOR GATE). SEE SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS
   B. RC: RECYLCED CONTENT IS LISTED AS A PERCENTAGE (%) AND REPRESENTS AVERAGE TOTAL RECYCLED CONTENT. TOTAL RECYCLED CONTENT SHALL CONSIDER PRECONSUMER PLUS POSTCONSUMER CONTENT AND EXCLUDE HOME SCRAP
   C. SEE SPECIFICATIONS FOR SUSTAINABILITY SUBMITTAL REQUIREMENTS

METAL GAUGE CONVERSION

GAUGE	MINIMUM THICKNESS (MILS*)
22	27
20	33
18	43
16	54
14	68
12	97

NOTES:
* 1 MIL = 1/1000"

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

NOTES

S003

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STRUCTURAL MASONRY SPECIAL INSPECTIONS (LEVEL 2)

ITEM	FREQUENCY	STANDARD	CRITERIA
- VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS	P	TMS 602, Art 1.5	-
AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE			
- PROPORTIONS OF SITE-PREPARED MORTAR	P	TMS 602, Art. 2.1 AND 2.6A	-
- CONSTRUCTION OF MORTAR JOINTS	P	TMS 602, Art. 3.3B	-
- LOCATION OF REINFORCEMENT AND CONNECTORS	P	TMS 602, Art.3.4	-
PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE			
- GROUT SPACE	P	TMS 602, Art. 3.2D AND 3.2F	VERIFY GROUT SPACE IS FREE OF MORTAR DROPPINGS AND DEBRIS, AND CLEANOUTS PROVIDED AS REQUIRED
- GRADE, TYPE, SIZE OF REINFORCEMENT AND ANCHOR BOLTS	P	TMS 602 Art. 2.4 AND 3.4	VERIFY TYPE, FINISH, DIAMETER, LENGTH, QUANTITY, EMBEDMENT LENGTH, SPACING AND EDGE DISTANCE. VERIFY GROUT SPACE AROUND ANCHORS IN FACE SHELL
- PLACEMENT OF REINFORCEMENT AND CONNECTORS (REBAR, JOINT REINFORCEMENT, AND TIES)	P	TMS 602, Art. 3.2E AND 3.4	VERIFY TYPE, SIZE, QUANTITY, LOCATION, SPACING, COVER, SPLICE LENGTH, SPLICE LOCATION, SURFACE CONDITION, SUPPORT, AND SECURING. SEE STRUCTURAL CONCRETE TABLE FOR FIELD BENDING, COATED REINFORCEMENT, AND MECHANICAL CONNECTORS
- PROPORTIONS OF SITE -PREPARED GROUT	P	TMS 602, Art. 2.6B	ASTM C476
- MIX DESIGN FOR OFF-SITE PREPARED GROUT	EACH TRUCK	-	-
- CONSTRUCTION OF MORTAR JOINTS	P	TMS 602, Art. 3.3B	-
VERIFY DURING CONSTRUCTION			
- PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION	P	TMS 602, Art. 3.3B	-
- SIZE AND LOCATION OF STRUCTURAL ELEMENTS	P	TMS 602, Art. 3.3F	-
- TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTIONS	P	-	-
- WELDING OF REINFORCEMENT	C	PER STRUCTURAL STEEL TABLE	-
- PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING HOT AND COLD WEATHER	P	TMS 602, Art. 1.8C AND 1.8D	REQUIRED WHEN AIR TEMPERATURE IS BELOW 40°F OR ABOVE 90°F
- PLACEMENT OF GROUT	C	TMS 602, Art. 3.5	-
- OBSERVE PREPARATION OF GROUT SPECIMENS AND/OR PRISMS	P	TMS 602, Art. 1.4B	ASTM C1019, ASTM C1314

STRUCTURAL MASONRY TESTING (LEVEL 2)

ITEM	FREQUENCY	STANDARD	CRITERIA
- SELF-CONSOLIDATING GROUT SLUMP FLOW	EACH TRUCK	ASTM C1611	VERIFY SLUMP FLOW AND VISUAL STABILTY INDEX
- WELDING REINFORCEMENT, BOLTS, AND EMBEDMENTS	-	-	PER STRUCTURAL STEEL TESTING

POST-INSTALLED ANCHORS/REINFORCING STEEL SPECIAL INSPECTIONS

ITEM	FREQUENCY	STANDARD	CRITERIA
EXPANSION ANCHORS, SLEEVE ANCHORS, SCREW ANCHORS			
- PRIOR TO START OF WORK	-	ICC-ES REPORT	REVIEW CONTRACTOR'S INSTALLATION PROCEDURE
- PRIOR TO INSTALLATION OF ANCHOR	EACH ANCHOR	ICC-ES REPORT	VERIFY TYPE, DIAMETER, LENGTH, FINISH, AND BASE MATERIAL. VERIFY SOLID GROUTED AREA AROUND ANCHORS IN GROUTED MASONRY. VERIFY MAXIMUM IMPACT WRENCH TORQUE RATING FOR SCREW ANCHORS
- DURING INSTALLATION OF ANCHOR	C	ICC-ES REPORT	CONTINUOUS INSPECTION REQUIRED REGARDLESS IF PERIODIC INSPECTION IS PERMITTED BY ICC-ES REPORT. VERIFY HOLE DIMENSIONS, HOLE CLEANING, ANCHOR EMBEDMENT, EDGE DISTANCES AND SPACING
- AFTER INSTALLATION OF ATTACHED ASSEMBLY	100% VISUAL	-	VERIFY NUMBER, EDGE DISTANCES, AND ANCHOR FLUSH WITH AND PERPENDICULAR TO THE RECEIVING SURFACE
ADHESIVE ANCHORS, REINFORCING STEEL ANCHORED INTO HARDENED CONCRETE			
- PRIOR TO START OF WORK	-	ICC-ES REPORT	REVIEW CONTRACTOR'S INSTALLATION PROCEDURE
- PRIOR TO INSTALLATION OF ANCHOR	EACH ANCHOR	ICC-ES REPORT	VERIFY TYPE, DIAMETER, LENGTH, FINISH, AND BASE MATERIAL. VERIFY SOLID GROUTED AREA AROUND ANCHORS IN GROUTED MASONRY
- DURING INSTALLATION OF ANCHOR	C	ICC-ES REPORT	CONTINUOUS INSPECTION REQUIRED REGARDLESS IF PERIODIC INSPECTION IS PERMITTED BY ICC-ES REPORT. VERIFY HOLE DIMENSIONS, HOLE CLEANING, ANCHOR EMBEDMENT, EDGE DISTANCES AND SPACING
- AFTER INSTALLATION OF ATTACHED ASSEMBLY	100% VISUAL	-	VERIFY NUMBER, EDGE DISTANCES, AND ANCHOR FLUSH WITH AND PERPENDICULAR TO THE RECEIVING SURFACE
- CURE TIME	100% VISUAL	-	VERIFY FULL CURE TIME HAS ELAPSED PRIOR TO APPLICATION OF TORQUE OR LOAD TO ANCHOR

POST-INSTALLED ANCHOR/REINFORCING STEEL TESTING

ITEM	FREQUENCY	STANDARD	CRITERIA
EXPANSION ANCHORS, SLEEVE ANCHORS, SCREW ANCHORS			
- TORQUE TEST	100%	-	TEST ANCHOR WITH CALIBRATED TORQUE WRENCH TO 100% OF THE INSTALLATION TORQUE NOTED IN ICC-ES REPORT. ATTAIN SPECIFIED TORQUE WITHIN 1/2 TURN OF THE NUT
ADHESIVE ANCHORS, REINFORCING STEEL ANCHORED INTO HARDENED CONCRETE			
- TENSION TEST	FIRST 3 AND 1% OF REMAINING	ASTM E488 STATIC TENSION	TEST THE INSTALLATION OF THE FIRST 3 OF EACH TYPE, BASE MATERIAL, AND POSITION (DOWN, HORIZONTAL, OVERHEAD). OBSERVE ASTM E488 MINIMUM EDGE DISTANCES FOR DETERMINING TEST LOCATIONS. SUBMIT PROPOSED TEST LOCATIONS AND REQUESTS FOR REQUIRED TENSION TEST LOAD VALUES TO ENGINEER

STRUCTURAL CONCRETE SPECIAL INSPECTIONS

ITEM	FREQUENCY	STANDARD	CRITERIA
REINFORCING STEEL			
- DURING PLACEMENT	P	ACI 301-16 3.2-3.3	VERIFY GRADE, FINISH, SIZE, BAR QUANTITY, LOCATION, SPACING, COVER, HOOK LENGTHS, SPLICE LENGTH, SPLICE LOCATIONS, BEND DIAMETERS, COATING, SURFACE CONDITION, AND SUPPORT
- PRIOR TO PLACEMENT OF CONCRETE	100%		
- WELDING	C	AWS D1.4	VERIFY ASTM A706 REINFORCING STEEL
- FIELD BENDING	P	ACI 301-16 3.3.2.8	-
- COATED REINFORCING	P	ACI 301-16 3.2.1.2	-
- MECHANICAL CONNECTORS	C	ICC-ES REPORT	-
BOLTS AND EMBEDMENTS			
- PRIOR TO PLACEMENT OF CONCRETE	100%	-	VERIFY TYPE, FINISH, DIAMETER, LENGTH, QUANTITY, EMBEDMENT LENGTH, SPACING AND EDGE DISTANCES. VERIFY USE OF PLACING TEMPLATE WHERE SPECIFIED
- WELDING	-	-	INSPECT PER THE STRUCTURAL STEEL TABLE
CONCRETE			
- MIX DESIGN	EACH TRUCK	-	VERIFY USE OF APPROVED DESIGN MIXTURE FOR EACH TRUCK LOAD
- FORMWORK PRIOR TO PLACEMENT OF CONCRETE	P	ACI 301-16 2.2-2.3	INSPECT FIRST POUR OF EACH TYPE (GRADE BEAM, COLUMN, STRUCTURAL SLAB, SLAB-ON-DECK, ETC.)
- PLACEMENT OF CONCRETE	C	ACI 301-16 5.3.2	-
- CURING	P	ACI 301-16 5.3.6	-
- SHORE/FORM REMOVAL	P	ACI 301-16 2.3.2	FOR BEAMS AND STRUCTURAL SLABS

STRUCTURAL CONCRETE TESTING

ITEM	FREQUENCY	STANDARD	CRITERIA
REINFORCING STEEL, BOLTS AND EMBEDMENTS			
- WELDING	-	-	PER STRUCTURAL STEEL TESTING
CONCRETE			
- COMPOSITE SAMPLE	100 CY/MIX/DAY	ASTM C172	OBTAIN AT POINT OF PLACEMENT. FOR DRILLED PIERS OBTAIN NEAR BEGINNING OF LOAD PRIOR TO PLACEMENT IN SHAFT. ADJUST FREQUENCY AS REQUIRED TO PROVIDE MINIMUM 5 TOTAL TESTS PER MIX BUT NOT MORE THAN ONE SAMPLE PER TRUCK LOAD BUT NOT LESS THAN 1 TEST FOR 5000 SF OF WALL OR SLAB AREA
- SLUMP/SLUMP FLOW	EACH COMPOSITE SAMPLE	ASTM C143 (SLUMP) OR ASTM C1611 (SLUMP FLOW)	SPECIFIED SLUMP SHALL BE AS SUBMITTED IN THE MIX DESIGN ± 1 1/2". PERFORM ADDITIONAL TESTS WHEN CONCRETE CONSISTENCY APPEARS TO CHANGE
- AIR CONTENT WHEN AIR ENTRAINMENT IS SPECIFIED AND LIGHTWEIGHT CONCRETE	EACH COMPOSITE SAMPLE	ASTM C231 PRESSURE METHOD (NWC) OR ASTM C173 VOLUMETRIC METHOD (LWC)	-
- TEMPERATURE	EACH COMPOSITE SAMPLE AND 60 MINUTE INTERVALS	ASTM C1064	REQUIRED WHEN AIR TEMPERATURE IS 40 °F AND BELOW OR 80°F AND ABOVE
- COLD WEATHER CURING	-	ASTM C1074	RECORD MAXIMUM AND MINIMUM CONCRETE TEMPERATURE DURING CURING PERIOD, WHEN DAILY AVERAGE AIR TEMPERATURE OF 40 °F OR BELOW IS EXPECTED FOR 3 SUCCESSIVE DAYS DURING CURING PERIOD
- COMPRESSIVE STRENGTH	EACH COMPOSITE SAMPLE	ASTM C31 ASTM C39 EITHER: (4)6x12 OR (6)4x8 CYLINDERS	TEST PER SCHEDULE BELOW FOR 28-DAY STRENGTH: - 7 DAYS: (1) 6x12 OR (1) 4x8 - 28 DAYS: (2) 6x12 OR (3) 4x8 - 56 DAYS: (1) 6x12 OR (2) 4x8 (IF 28 DAY TESTS DO NOT ACHIEVE SPECIFIED 28 DAY STRENGTH) ACCEPTANCE CRITERIA PER ACI 318
			TEST PER SCHEDULE BELOW FOR 56-DAY STRENGTH: - 7 DAYS: (1) 6x12 OR (1) 4x8 - 28 DAYS: (2) 6x12 OR (3) 4x8 - 56 DAYS: (2) 6x12 OR (3) 4x8
FLOOR FLATNESS REQUIREMENTS			
- MEASURE CONCRETE FLOOR FLATNESS (FF) AND FLOOR LEVELNESS (FL)	-	ASTM E1155	PERFORM MEASUREMENTS WITHIN 48 HOURS OF FINISHING OPERATIONS AND PRIOR TO REMOVAL OF SHORES OR FORMS. MEASURE AREAS INDICATED IN THE SPECIFICATIONS

STRUCTURAL CONCRETE TESTING NOTES:

1. NONDESTRUCTIVE TESTING MAY BE PERMITTED BY THE ARCHITECT, BUT WILL NOT BE USED AS SOLE BASIS FOR APPROVAL OR REJECTION OF DEFICIENT CONCRETE.
2. REPORTS OF COMPRESSIVE STRENGTH TESTS SHALL CONTAIN THE FOLLOWING INFORMATION: DATE OF CONCRETE PLACEMENT, LOCATION OF CONCRETE BATCH IN WORK, DESIGN 28-DAY COMPRESSIVE STRENGTH, SLUMP, CONCRETE SUPPLIER AND MIXTURE ID NUMBER, TIME OF BATCH AND PLACEMENT, AMBIENT AIR TEMPERATURE, SITE ADDED WATER AND ADMIXTURES, UNIT WEIGHT, AND AS REQUIRED BY ASTM C39.

QUALITY ASSURANCE GENERAL NOTES
STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING

1) GENERAL:

1A) SCOPE OF WORK
- THE OWNER WILL ENGAGE A QUALIFIED INSPECTION AND TESTING AGENCY(S) TO PERFORM SPECIAL INSPECTIONS AND TESTING FOR ALL STRUCTURAL MEMBERS AND ASSEMBLIES AS NOTED HEREIN.
- SUBMIT DOCUMENTATION OF QUALIFICATIONS, INCLUDING COMPETENCE AND RELEVANT WORK EXPERIENCE OR TRAINING OF SPECIAL INSPECTORS TO THE AUTHORITY HAVING JURISDICTION PRIOR TO THE START OF WORK.
- SPECIAL INSPECTIONS AND TESTING INCLUDE THE ADDITIONAL STRUCTURAL SPECIAL INSPECTION AND TESTING REQUIREMENTS FOR SEISMIC AND/OR WIND RESISTANCE.
- SPECIAL INSPECTIONS ARE IN ADDITION TO INSPECTIONS BY THE AUTHORITY HAVING JURISDICTION REQUIRED BY CBC 2022 SECTION 110.
- REFER TO THE SPECIFICATIONS FOR REPORTING AND PROCEDURAL REQUIREMENTS FOR QUALITY ASSURANCE AND QUALITY CONTROL.
- REFER TO ARCH/MECH/ELEC/CIVIL SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL SPECIAL INSPECTION AND TESTING THAT MAY BE REQUIRED.

1B) SPECIAL INSPECTIONS AND TESTING ARE APPLICABLE TO ALL REVISIONS AND/OR FUTURE WORK ADDED BY AMENDMENTS TO THESE DOCUMENTS.

1C) DEFINITIONS
- SPECIAL INSPECTOR: THE AGENCY ENGAGED BY THE OWNER AND APPROVED BY THE AUTHORITY HAVING JURISDICTION TO ACT AS THE DESIGNATED REPRESENTATIVE TO PERFORM INSPECTIONS.
- SPECIAL INSPECTION: INSPECTION PERFORMED BY THE SPECIAL INSPECTOR ACCORDING TO CBC 2022 SECTION 1704 TO ENSURE COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS.
- (P) PERIODIC INSPECTION: THE PART-TIME OR INTERMITTENT OBSERVATION BY THE SPECIAL INSPECTOR OF WORK BEING PERFORMED. SPECIAL INSPECTOR SHALL BE PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. OBSERVATION OF ALL WORK (100% VISUAL) SHALL BE MADE AT THE COMPLETION OF THE WORK.
- (C) CONTINUOUS INSPECTION: THE FULL-TIME OBSERVATION BY THE SPECIAL INSPECTOR OF WORK BEING PERFORMED. SPECIAL INSPECTOR SHALL BE PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. OBSERVATION OF ALL WORK (100% VISUAL) SHALL BE MADE AT THE COMPLETION OF THE WORK.

1D) DEFICIENCIES IN WORK
- CORRECT DEFICIENCIES IN WORK THAT TESTS AND INSPECTIONS INDICATE DO NOT COMPLY WITH THE CONTRACT DOCUMENTS AND REFERENCED STANDARDS.
- ALL COST OF ADDITIONAL TESTING AND/OR INSPECTIONS FOR CORRECTIVE WORK SHALL BE BORNE BY THE CONTRACTOR.

2) SHOP FABRICATIONS:

2A) GENERAL
- PERFORM INSPECTIONS AND TESTING FOR ALL SHOP FABRICATED STRUCTURAL MEMBERS AND ASSEMBLIES AS NOTED HEREIN. SPECIAL INSPECTOR SHALL PERFORM SPECIAL INSPECTIONS AND TESTING UNLESS THE FABRICATOR IS REGISTERED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION OR FABRICATION HAS A CURRENT ICC-ES EVALUATION REPORT.
- SPECIAL INSPECTOR SHALL VERIFY THE FABRICATOR MAINTAINS AND FOLLOWS DETAILED SHOP FABRICATION AND QUALITY CONTROL PROCEDURES, UNLESS FABRICATOR IS REGISTERED AND APPROVED.
- AT THE COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE AUTHORITY HAVING JURISDICTION ACCORDING TO CBC 2022 SECTION 1704.2.5.1.
- APPROVED FABRICATORS MAY PERFORM TESTING NOTED HEREIN EXCEPT THAT NONDESTRUCTIVE TESTING (NDT) SHALL ONLY BE PERFORMED BY PERSONNEL WITH QUALIFICATIONS THAT MEET OR EXCEED THE CRITERIA OF AWS D1.1 SUBCLAUSE 6.14.6 AND AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING (ASNT) SNT-TC-1A OR ASNT CP-189.

2B) SHOP FABRICATIONS INCLUDED
- PRE-FABRICATED WOOD STRUCTURAL ELEMENTS
- SHOP FABRICATED STEEL CONNECTIONS FOR STRUCTURAL WOOD CONNECTIONS

SOILS SPECIAL INSPECTIONS

ITEM	FREQUENCY	STANDARD	CRITERIA
SUBGRADE			
- EXCAVATION	P	-	VERIFY EXCAVATIONS ARE EXTENDED TO THE PROPER DEPTH AND HAVE REACHED THE PROPER BEARING MATERIAL
- BEARING MATERIAL	P	SOILS REPORT	VERIFY BEARING MATERIAL IS ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY
CONTROLLED FILL			
- PRIOR TO PLACEMENT	P	-	VERIFY SUBGRADE HAS BEEN PROPERLY PREPARED
- PLACEMENT	C	-	VERIFY USE OF PROPER MATERIALS, DENSITIES, COMPACTION, AND LIFT THICKNESSES

SOILS SPECIAL INSPECTION NOTES:

1. SEE CIVIL DRAWINGS AND/OR SPECIFICATIONS FOR ADDITIONAL EARTHWORK AND UTILITY INSPECTION REQUIREMENTS.
2. SEE CIVIL DRAWINGS AND/OR SPECIFICATIONS FOR CLASSIFICATION AND TESTING REQUIREMENTS FOR COMPACTED FILL AND/OR CONTROLLED LOW-STRENGTH MATERIAL.

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

QUALITY ASSURANCE

S004

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WOOD SPECIAL INSPECTIONS

ITEM	FREQUENCY	STANDARD	CRITERIA
FRAMING			
- MEMBERS AND CONNECTIONS	P	-	VERIFY SPECIES, GRADE, SIZE, LOCATION, SPACING, END BEARING AND END ATTACHMENT
- BRIDGING AND BLOCKING	P	-	VERIFY INSTALLATION AND LOCATION
- FIELD CUTS AND NOTCHES	P	-	NO CUTS OR NOTCHES PERMITTED UNLESS SPECIFIED ON THE CONSTRUCTION DOCUMENTS
- SPLICING	P	-	NO SPLICING OF STRUCTURAL MEMBERS PERMITTED UNLESS SPECIFIED ON THE CONSTRUCTION DOCUMENTS
- FLOOR/ROOF FRAMING	P	-	VERIFY FRAMING IS ALIGNED OVER A BEARING STUD WITHIN PERMITTED DIMENSION
SHEATHED DIAPHRAGM			
- PANEL SHEATHING	P	-	VERIFY TYPE, THICKNESS, PANEL SIZE AND ORIENTATION
- ATTACHMENT	P	-	VERIFY PANEL SHEATHING BOUNDARY, PANEL EDGE, AND FIELD FASTENERS AND ATTACHMENT AT ALL EDGES OF DIAPHRAGM
- HIGH LOAD DIAPHRAGMS	P	-	VERIFY NUMBER OF FASTENER LINES AND NOMINAL SIZE OF FRAMING AT ADJOINING PANEL EDGES AND BOUNDARIES
CONNECTIONS			
- FASTENER	P	-	VERIFY TYPE, DIAMETER, LENGTH, SPACING, EDGE DISTANCES, AND USE OF WASHERS. VERIFY HOLE DIAMETER FOR BOLTS
- MANUFACTURED WOOD CONNECTORS AND JOIST HANGERS	P	ICC-ES REPORT	VERIFY TYPE, ALL CONNECTOR HOLES FILLED WITH PROPER FASTENERS, AND INSTALLATION IN CONFORMANCE WITH ICC-ES REPORT
METAL PLATE CONNECTED WOOD TRUSSES			
- CONNECTIONS	P	-	VERIFY SIZE, LOCATION, TIGHTNESS, AND PROPER INSTALLATION OF METAL PLATES, BOLTS, NAILS, HOLD-DOWNS AND ALL OTHER CONNECTORS OR OTHER DEVICES
- PERMANENT BRACING	P	-	VERIFY INSTALLATION IN CONFORMANCE TO APPROVED SUBMITTAL
- FIELD GLUING STRUCTURAL WOOD	C	-	-

WOOD TESTING

ITEM	FREQUENCY	STANDARD	CRITERIA
MOISTURE CONTENT			
- PRESSURE TREATED LUMBER	100%	ASTM D4444 HAND-HELD MOISTURE METER	-
- MEMBERS 5x AND LARGER	100%		
- ALL OTHER MEMBERS	10%		

STRUCTURAL STEEL TESTING

ITEM	FREQUENCY	STANDARD	CRITERIA/REMARKS
WELDING			
- COMPLETE JOINT PENETRATION GROOVE WELDS FOR MATERIAL 5/16" THICK AND GREATER	10%	UT	FREQUENCY SHALL BE INCREASED SHOULD THE REJECT RATE EXCEED 5% FOR AN INDIVIDUAL WELDER, IN ACCORDANCE WITH AISC 360, CHAPTER N.
- THERMALLY CUT SURFACES OF BEAM COPES AND ACCESS HOLES WHEN MATERIAL THICKNESS EXCEEDS 2 INCHES	100%	MT OR PT	-
- SHEAR CONNECTOR, HEADED ANCHOR STUDS, DEFORMED ANCHOR STUDS, THREADED STUDS	2 BEND TESTS AT START OF EACH SHIFT, 1% BEND TEST, 100% RING TEST	AWS D1.1 SECTION 7	BEND TEST: PER AWS D1.1 BENT STUD (TORQUE TEST FOR THREADED STUDS) ACCEPTANCE CRITERIA. RING TEST: STRIKE WITH HAMMER. IF THE STUD RINGS, STUD IS ACCEPTABLE. IF STUD DOES NOT RING, PERFORM BEND TEST
FRAMING			
- SHAPES EXCEEDING 1 1/2 INCHES THICK, LOADED IN TENSION IN THE THROUGH- THICKNESS	100%	ASTM A898 (LEVEL 1 CRITERIA)	NOT REQUIRED FOR STEEL PRODUCED IN USA. CRITERIA TO BE MET 6 INCHES ABOVE AND BELOW EACH WELD. REQUIRED WHERE NOTED AS 'TTT' IN DRAWINGS
- PLATES EXCEEDING 3/4 INCH, LOADED IN TENSION IN THE THROUGH-THICKNESS DIRECTION IN TEE AND CORNER JOINTS	100%	ASTM A435	NOT REQUIRED FOR STEEL PRODUCED IN USA. ANY DISCONTINUITY CAUSING A TOTAL LOSS OF BACK REFLECTION THAT CANNOT BE CONTAINED WITHIN A CIRCLE 3 INCHES IN DIAMETER SHALL BE REJECTED. REQUIRED WHERE NOTED AS 'TTT' IN DRAWINGS
EMBEDDED PLATE ASSEMBLIES WITH PLATES EXCEEDING 3/4 INCH	100%	UT	NOT REQUIRED FOR STEEL PRODUCED IN USA. TEST ALONG CENTERLINE OF PLATE WIDTH AFTER WELDING

UT - ULTRASONIC TESTING
MT - MAGNETIC PARTICLE TESTING
PT - PENETRANT TESTING
SFRS - SEISMIC FORCE RESISTING SYSTEM
TTT - TENSION THRU THICKNESS, SEE STR STEEL TESTING

STRUCTURAL STEEL INSPECTIONS

ITEM	INSPECTION TASK	STANDARD	CRITERIA/REMARKS
- PRIOR TO FABRICATION OR ERECTION	PERFORM	AISC 360, CHAPTER N	REVIEW MATERIAL TEST REPORTS AND CERTIFICATIONS FOR STRUCTURAL STEEL, FASTENERS, ANCHOR RODS, HEADED STUD ANCHORS
PRIOR TO WELDING			
- REVIEW MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AND WELDING PROCEDURE SPECIFICATIONS	PERFORM	AISC 360, CHAPTER N	-
- FIT UP OF WELDS, INCLUDING JOINT GEOMETRY, AND CONFIGURATIONS AND FINISH OF ACCESS HOLES	OBSERVE	AISC 360, CHAPTER N	-
- MATERIAL IDENTIFICATION	OBSERVE	AISC 360, CHAPTER N	-
- WELDER IDENTIFICATION SYSTEM	OBSERVE	AISC 360, CHAPTER N	-
DURING WELDING			
- USE OF QUALIFIED WELDERS	OBSERVE	AISC 360, CHAPTER N	-
- CONTROL AND HANDLING OF WELDING CONSUMABLES	OBSERVE	AISC 360, CHAPTER N	-
- NO WELDING OVER CRACKED TACK WELDS	OBSERVE	AISC 360, CHAPTER N	-
- ENVIRONMENTAL CONDITIONS, AND WPS FOLLOWED	OBSERVE	AISC 360, CHAPTER N	-
- WELDING TECHNIQUES - SINGLE PASS WELDS	OBSERVE	AISC 360, CHAPTER N	-
- WELDING TECHNIQUES - MULTI-PASS WELDS	OBSERVE	AISC 360, CHAPTER N	-
AFTER WELDING			
- WELDS CLEANED	OBSERVE	AISC 360, CHAPTER N	-
- SIZE, LENGTH, AND LOCATION OF WELDS	PERFORM	AISC 360, CHAPTER N	-
- WELDS MEET VISUAL ACCEPTANCE CRITERIA	PERFORM	AISC 360, CHAPTER N, AWS D1.1	WHERE INSPECTOR OBSERVES QUESTIONABLE WELDS, NON-DESTRUCTIVE TESTING SHALL BE PERFORMED
- ARC STRIKES	PERFORM	AISC 360, CHAPTER N	-
- K-AREA	PERFORM	AISC 360, CHAPTER N	-
- BACKING AND WELD TABS REMOVED WHERE REQUIRED.	PERFORM	AISC 360, CHAPTER N	
- REPAIR ACTIVITIES	PERFORM	AISC 360, CHAPTER N	-
- PLACEMENT AND INSTALLATION OF HEADED STUD ANCHORS	PERFORM	AISC 360, CHAPTER N	-
- DOCUMENT ACCEPTANCE OR REJECTION OF WELDED MEMBER OR JOINT	PERFORM	AISC 360, CHAPTER N	-
PRIOR TO BOLTING			
- REVIEW MANUFACTURER CERTIFICATIONS FOR FASTENER MATERIALS	PERFORM	AISC 360, CHAPTER N	-
- FASTENERS MARKS IN ACCORDANCE WITH ASTM REQUIREMENTS	OBSERVE	AISC 360, CHAPTER N	-
- PROPER FASTENERS AND BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	OBSERVE	AISC 360, CHAPTER N	-
- CONNECTING ELEMENTS MEET REQUIREMENTS, INCLUDING HOLE REPAIR AND FAYING SURFACE	OBSERVE	AISC 360, CHAPTER N	-
- PRE-INSTALLATION VERIFICATION TESTING	OBSERVE	AISC 360, CHAPTER N	NOT APPLICABLE FOR SNUG TIGHT JOINTS
- PROPER STORAGE FOR FASTENER COMPONENTS	OBSERVE	AISC 360, CHAPTER N	-
DURING BOLTING			
- FASTENERS PLACED IN ALL HOLES AND POSITIONED AS REQUIRED	OBSERVE	AISC 360, CHAPTER N	-
- PRETENSIONED AND SLIP-CRITICAL JOINTS	OBSERVE	AISC 360, CHAPTER N AND RCSC SPECIFICATION	JOINT BROUGHT IN SNUG-TIGHT CONDITION PRIOR TO PRETENSIONING, FASTENER PREVENTED FROM ROTATING, PRETENSIONED IN PROPER SEQUENCE
- PRETENSIONED AND SLIP-CRITICAL JOINTS USING CALIBRATED WRENCH OR TURN-OF-NUT METHOD WITHOUT MATCHMARKING	PERFORM	AISC 360, CHAPTER N AND RCSC SPECIFICATION	JOINT BROUGHT IN SNUG-TIGHT CONDITION PRIOR TO PRETENSIONING, FASTENER PREVENTED FROM ROTATING, PRETENSIONED IN PROPER SEQUENCE. INSPECTOR SHALL BE PRESENT DURING INSTALLATION OF FASTENERS
AFTER BOLTING			
- DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	PERFORM	DOCUMENT ACCEPTANCE OR REJECTION MEMBER OR JOINT	-

OBSERVE - OBSERVE THESE ITEMS ON A RANDOM BASIS
PERFORM - THESE INSPECTIONS SHALL BE PERFORMED FOR EACH WELDED CONNECTION, EACH BOLTED CONNECTION, AND EACH ITEM, PRIOR TO ACCEPTANCE

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Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

QUALITY ASSURANCE

S005

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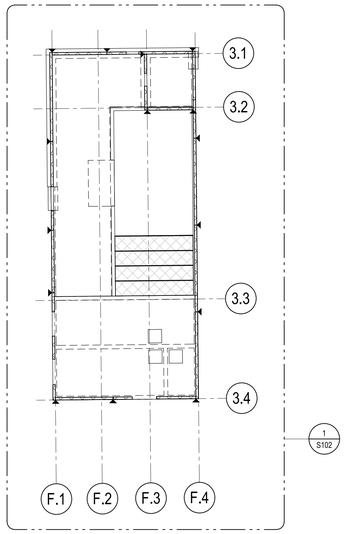

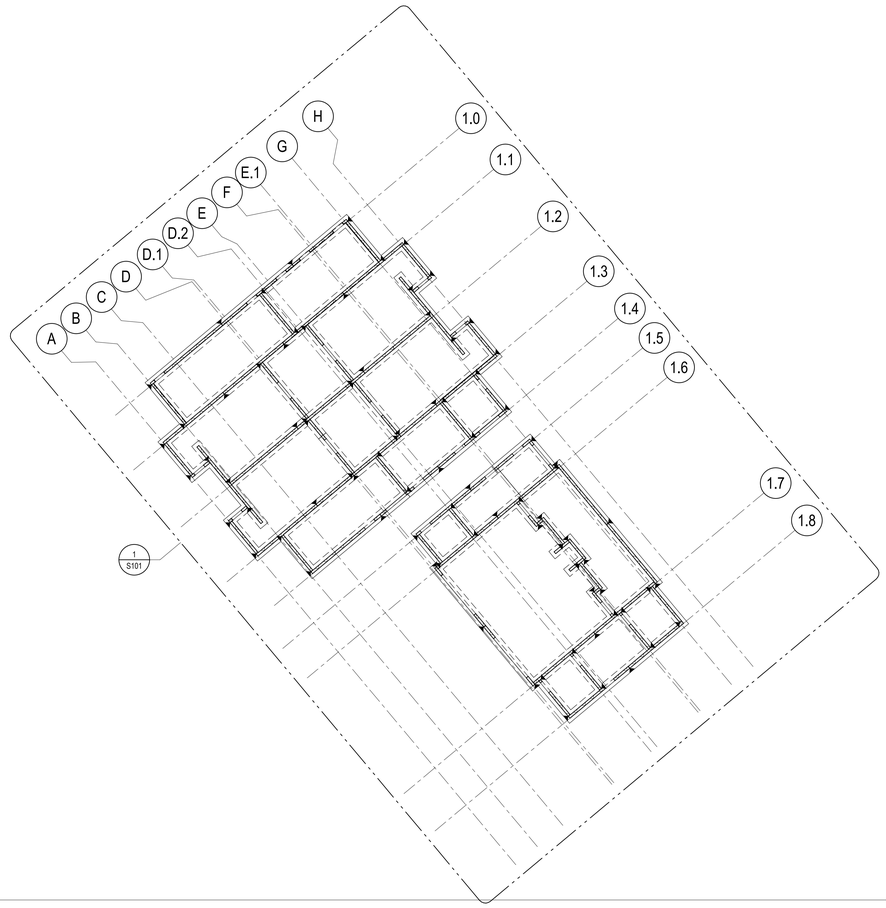

1 OVERALL FOUNDATION PLAN

1/16" = 1'-0"

PLAN NOTES

1. GENERAL:

1A) SEE S0 SERIES SHEETS FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.

1B) PROJECT ELEVATION 100'-0" CORRESPONDS TO THE FOLLOWING USGS ELEVATIONS. VERIFY IN FIELD AND WITH CIVIL AND ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
- MECHANICAL BUILDING: USGS ELEVATION 179.00'
- FACILITIES BUILDING AND BATH HOUSE: USGS ELEVATION 178.56'

1C) SEE S3 SERIES SHEETS FOR TYPICAL CONCRETE DETAILS.

2. STEM WALLS / FOOTINGS:

2A) SEE 12/S300 FOR LIMITS OF GRADE BEAM/WALL POUR LENGTHS.

2B) SEE 11/S303 FOR TYPICAL PENETRATIONS THROUGH STEM WALLS

2C) SEE 7/S300 FOR GRADE BEAM HORIZONTAL CORNER AND INTERSECTION REINFORCING

3. SLAB-ON-GRADE:

3A) SEE DETAIL 7/S301 FOR TYPICAL SLAB-ON-GRADE DETAIL.

3B) SEE DETAIL 5/S301 FOR TYPICAL SLAB-ON-GRADE LAYOUT/INFORMATION.

3C) SEE ARCH AND MECH DRAWINGS FOR SLAB SLOPES, DEPRESSIONS, FILL, PADS, AND CURBS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
a. SEE S301 FOR CURB AND MECHANICAL EQUIPMENT PAD DETAILS

3D) SEE ARCH DRAWINGS FOR VAPOR RETARDER LOCATIONS. INSTALL VAPOR RETARDER DIRECTLY UNDER SLAB PER RECOMMENDATIONS OF PCA AND ACI 302.1R-04. TAKE PRECAUTIONS TO MINIMIZE SLAB CURLING. GRIND SLAB TO ACHIEVE SPECIFIED FLOOR FLATNESS AND LEVELNESS VALUES.

3E) SLABS-ON-GRADE WITH EXTERIOR EXPOSURE, SHALL BE REINFORCED WITH EPOXY COATED (EC) REINFORCING.

3F) SEE "CONCRETE GENERAL NOTES " FOR JOINTING REQUIREMENTS AT SLAB-ON-GRADE.

3G) SEE ARCH AND PLUMBING DRAWINGS FOR SLAB ON GRADE TRENCHES.
a. SEE 9/S301 FOR SLAB ON GRADE TRENCH DETAIL

4. COLUMNS/PILASTERS:

4A) ALL COLUMNS/PILASTERS ARE CENTERED ON THE INTERSECTION OF GRIDS BELOW THE SUPPORTED COLUMN UNLESS DIMENSIONED OTHERWISE ON PLAN.

5. MASONRY WALLS AND VENEER:

5A) STRUCTURAL MASONRY WALLS:
a. SEE S400 AND S401 FOR TYPICAL STRUCTURAL MASONRY WALL DETAILS.
b. SEE 2/S400 FOR MASONRY WALL SCHEDULE
c. SEE 14/S400 FOR MASONRY JAMB SCHEDULE

5B) MASONRY PARTITION WALLS NOT SHOWN:
a. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL MASONRY PARTITION WALLS.
b. SEE S401 FOR TYPICAL MASONRY PARTITION WALL DETAILS.
c. SEE 12/S301 FOR THICKENED SLAB ON GRADE BENEATH MASONRY PARTITION WALLS BRACED BY ROOF STRUCTURE ABOVE. RE: ARCH FOR TOP OF WALL ELEVATIONS.
d. SEE 11/S301 FOR THICKENED SLAB ON GRADE BENEATH CANTILEVERED MASONRY PARTITION WALLS (NOT BRACED BY ROOF STRUCTURE ABOVE. RE: ARCH FOR TOP OF WALL ELEVATIONS.

5C) SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS OF ALL MASONRY WALLS.

6. MISCELLANEOUS NOTES:

6A) SEE DETAIL S302 FOR TYPICAL ONE-WAY SLAB SCHEDULE AND DETAILS.

6B) SEE SHEET S303 FOR MISCELLANEOUS CONCRETE DETAILS AND INFORMATION INCLUDING CONCRETE LAP SPLICE SCHEDULE, TYPICAL HOOK DETAILS, AND CLEAR COVER REQUIREMENTS.

6C) SEE DETAIL 11/S303 FOR TYPICAL REINFORCING AT WALL PENETRATIONS.

6D) SEE DETAIL 10/S301 FOR CONCRETE EQUIPMENT PAD ON SLAB ON GRADE. RE: RELEVANT DISCIPLINE'S PLANS FOR SIZE AND LOCATION OF EQUIPMENT PADS

6E) CONTRACTOR TO FIELD LOCATE ALL UTILITIES BELOW GRADE. CONTRACTOR SHALL NOTIFY ARCHITECT BY DIMENSIONED DRAWING OF LOCATIONS WHERE UTILITIES CONFLICT WITH FOUNDATION INSTALLATION. CONTRACTOR SHALL MAKE ALLOWANCE FOR THE RESOLUTION OF SUCH DISCOVERIES PRIOR TO PROCEEDING WITH EFFECTED FOUNDATIONS.

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

OVERALL FOUNATION PLAN

S100

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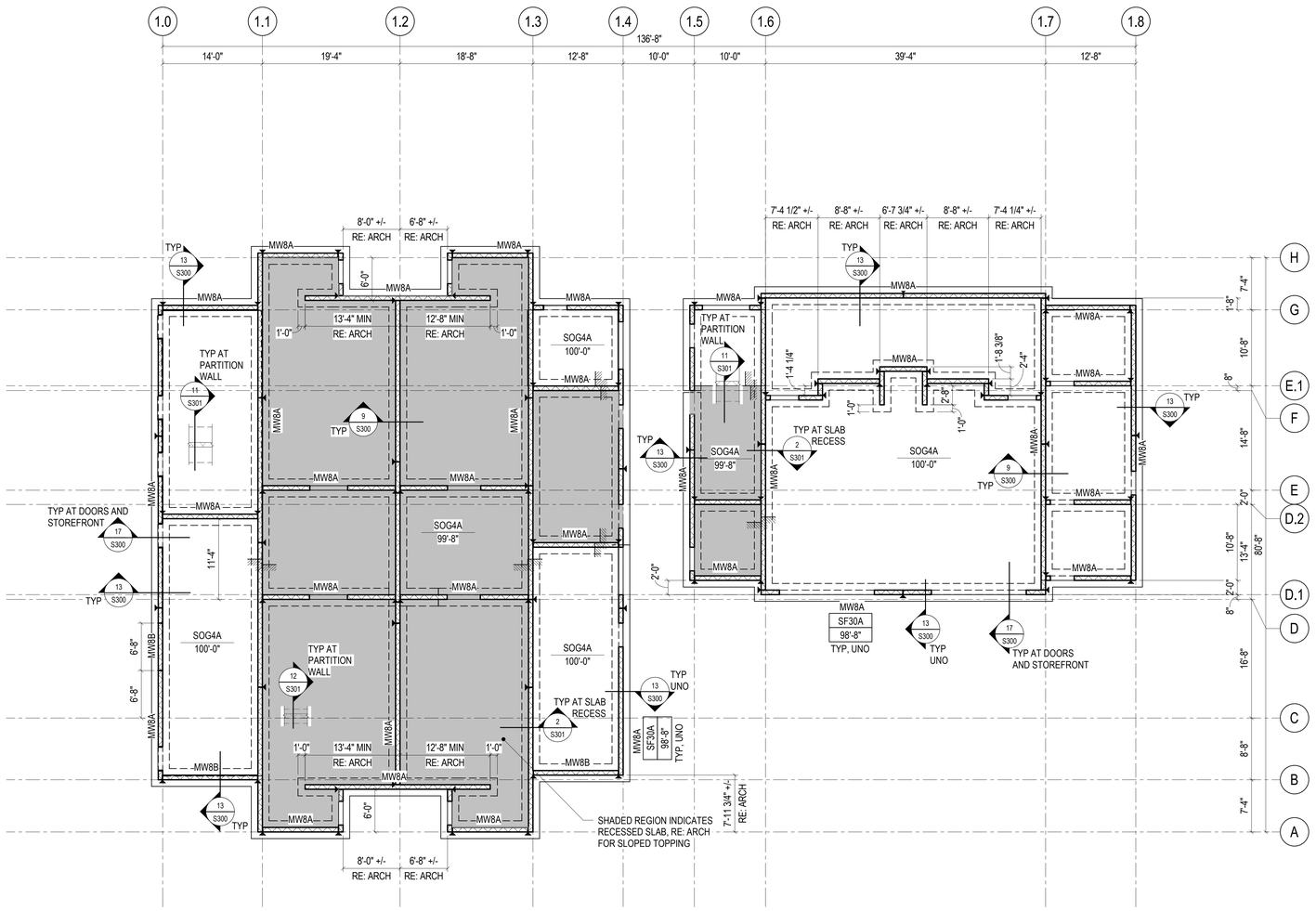

1 FOUNDATION PLAN - FACILITIES AND BATH HOUSE

1/8" = 1'-0"

PLAN NOTES

1. GENERAL:

1A) SEE S0 SERIES SHEETS FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.

1B) PROJECT ELEVATION 100'-0" CORRESPONDS TO THE FOLLOWING USGS ELEVATIONS. VERIFY IN FIELD AND WITH CIVIL AND ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
- MECHANICAL BUILDING: USGS ELEVATION 179.00'
- FACILITIES BUILDING AND BATH HOUSE: USGS ELEVATION 178.56'

1C) SEE S3 SERIES SHEETS FOR TYPICAL CONCRETE DETAILS.

2. STEM WALLS / FOOTINGS:

2A) SEE 12/S300 FOR LIMITS OF GRADE BEAM/WALL POUR LENGTHS.

2B) SEE 11/S303 FOR TYPICAL PENETRATIONS THROUGH STEM WALLS

2C) SEE 7/S300 FOR GRADE BEAM HORIZONTAL CORNER AND INTERSECTION REINFORCING

3. SLAB-ON-GRADE:

3A) SEE DETAIL 7/S301 FOR TYPICAL SLAB-ON-GRADE DETAIL.

3B) SEE DETAIL 5/S301 FOR TYPICAL SLAB-ON-GRADE LAYOUT/INFORMATION.

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a. SEE S301 FOR CURB AND MECHANICAL EQUIPMENT PAD DETAILS

3D) SEE ARCH DRAWINGS FOR VAPOR RETARDER LOCATIONS. INSTALL VAPOR RETARDER DIRECTLY UNDER SLAB PER RECOMMENDATIONS OF PCA AND ACI 302.1R-04. TAKE PRECAUTIONS TO MINIMIZE SLAB CURLING. GRIND SLAB TO ACHIEVE SPECIFIED FLOOR FLATNESS AND LEVELNESS VALUES.

3E) SLABS-ON-GRADE WITH EXTERIOR EXPOSURE, SHALL BE REINFORCED WITH EPOXY COATED (EC) REINFORCING.

3F) SEE "CONCRETE GENERAL NOTES " FOR JOINTING REQUIREMENTS AT SLAB-ON-GRADE.

3G) SEE ARCH AND PLUMBING DRAWINGS FOR SLAB ON GRADE TRENCHES.
a. SEE 9/S301 FOR SLAB ON GRADE TRENCH DETAIL

4. COLUMNS/PILASTERS:

4A) ALL COLUMNS/PILASTERS ARE CENTERED ON THE INTERSECTION OF GRIDS BELOW THE SUPPORTED COLUMN UNLESS DIMENSIONED OTHERWISE ON PLAN.

5. MASONRY WALLS AND VENEER:

5A) STRUCTURAL MASONRY WALLS:
a. SEE S400 AND S401 FOR TYPICAL STRUCTURAL MASONRY WALL DETAILS.
b. SEE 2/S400 FOR MASONRY WALL SCHEDULE
c. SEE 14/S400 FOR MASONRY JAMB SCHEDULE

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CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

FOUNDATION PLAN - FACILITIES AND BATH HOUSE

S101

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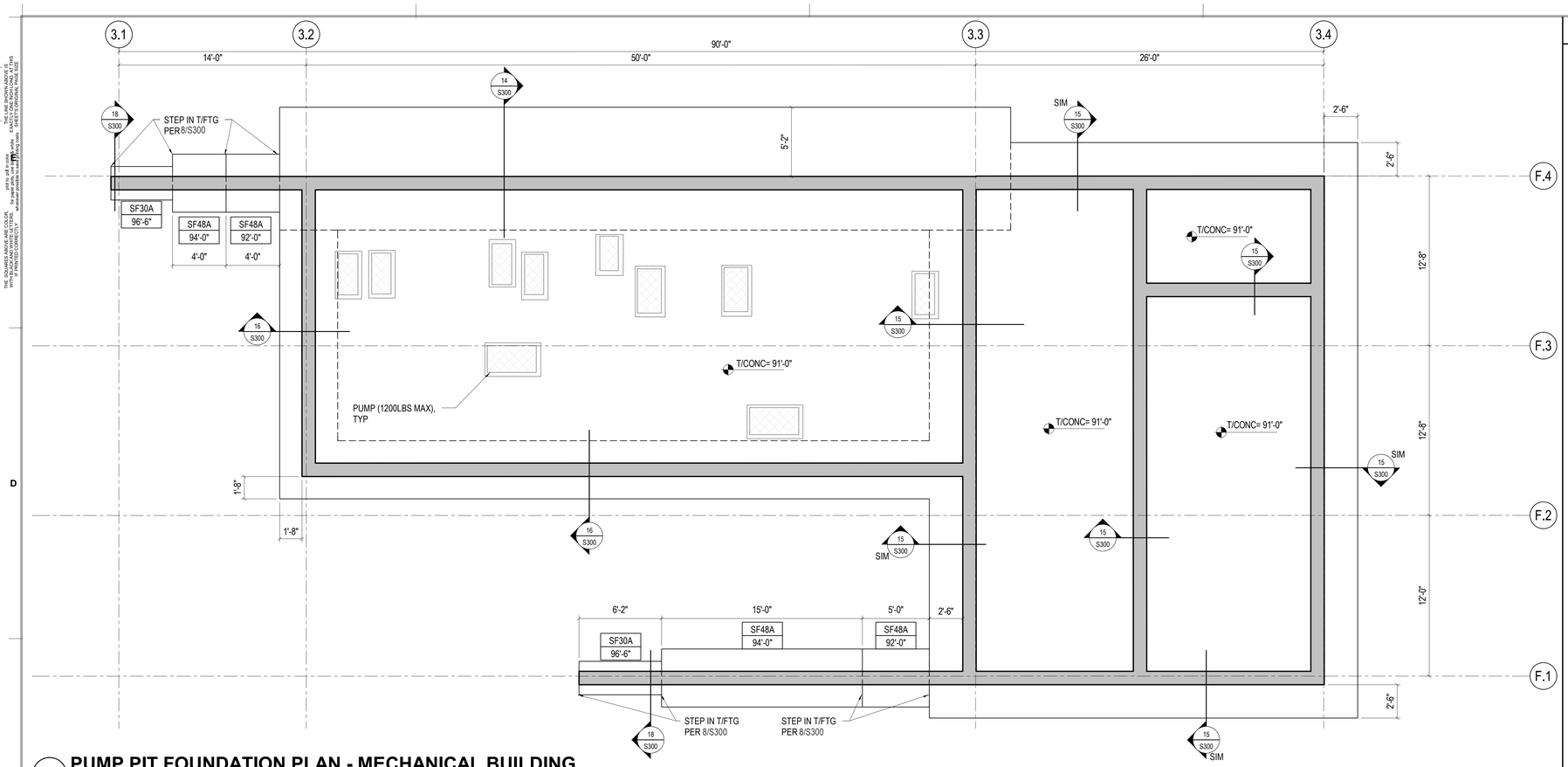
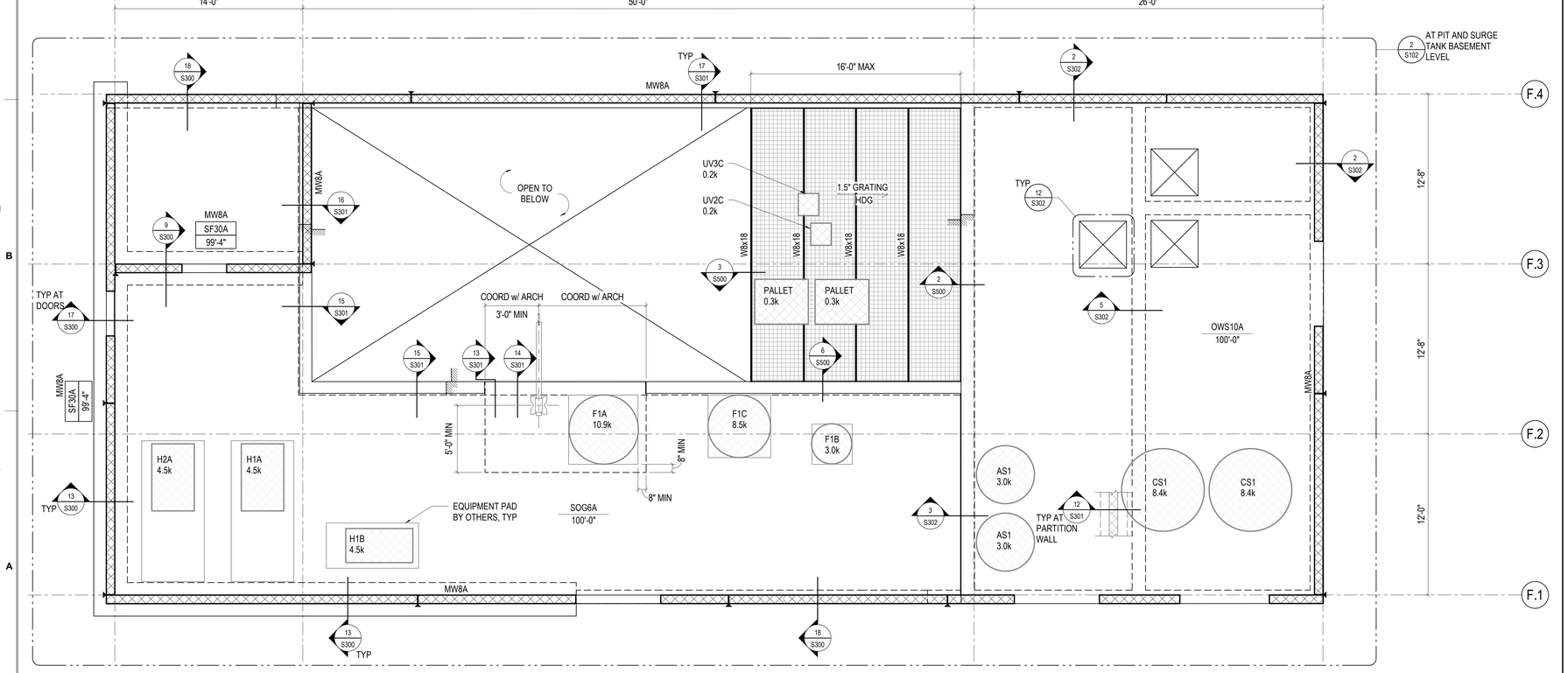


2 PUMP PIT FOUNDATION PLAN - MECHANICAL BUILDING

1/4" = 1'-0"



1 FOUNDATION PLAN - MECHANICAL BUILDING

1/4" = 1'-0"

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- b. SEE 2/S400 FOR MASONRY WALL SCHEDULE
- c. SEE 14/S400 FOR MASONRY JAMB SCHEDULE

5B) MASONRY PARTITION WALLS NOT SHOWN:
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- d. SEE 11/S301 FOR THICKENED SLAB ON GRADE BENEATH CANTILEVERED MASONRY PARTITION WALLS (NOT BRACED BY ROOF STRUCTURE ABOVE. RE: ARCH FOR TOP OF WALL ELEVATIONS.

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6E) CONTRACTOR TO FIELD LOCATE ALL UTILITIES BELOW GRADE. CONTRACTOR SHALL NOTIFY ARCHITECT BY DIMENSIONED DRAWING OF LOCATIONS WHERE UTILITIES CONFLICT WITH FOUNDATION INSTALLATION. CONTRACTOR SHALL MAKE ALLOWANCE FOR THE RESOLUTION OF SUCH DISCOVERIES PRIOR TO PROCEEDING WITH EFFECTED FOUNDATIONS.

7. SURGE TANK NOTES:

7A) PROVIDE A CONTINUOUS 6" PVC WATERSTOP AT ALL JOINTS. PVC WATERSTOP IS PLACED ON THE WATER SIDE OF THE REBAR.

7B) WATERSTOP SHALL BE FUSION WELDED PER MANUFACTURE REQUIREMENTS AT ALL SPLICES.

7C) PROVIDE A MINIMUM NO LESS THAN 2" CONCRETE COVERAGE AROUND WATERSTOP. SECURELY FASTEN WATERSTOP TO REINFORCING STEEL TO PREVENT DISPLACEMENT DURING CONCRETE PLACEMENT.

7D) PROVIDE 1" DEEP CONE SHAPED PLASTIC BREAKAWAY FORM TIES.

7E) PATCH ALL FORM TIE HOLES WITH EPOXY FORTIFIED NON-SHRINK NON-METALLIC GROUT.

7F) A SURGE TANK DRAIN AND OVERFLOW PIPE MUST BE INSTALLED BY THE POOL CONTRACTOR IN EACH SURGE TANK BEFORE POURING THE TANK FLOORS AND WALLS.

7G) POOL PIPING BY THE POOL CONTRACTOR MUST BE INSTALLED THROUGH THE SURGE TANK AND BUILDING WALLS AFTER POURING THE FLOORS AND WALLS. THE POOL CONTRACTOR WILL PROVIDE POOL PIPING SLEEVES FOR INSTALLATION BY THE GENERAL CONTRACTOR DURING THE STEEL PLACEMENT. (SEE STRUCTURAL DETAILS FOR REINFORCEMENT AT OPENINGS. COORDINATE THIS WORK WITH THE POOL CONTRACTOR.

7H) PRIOR TO BACKFILLING AROUND SURGE TANKS, CONTRACTOR SHALL WATER TEST TANKS PER ACI 350.1-01 AND 350.1R-01.

7K) PURGE TANK CONTRACTOR IS RESPONSIBLE FOR ALL COSTS RELATED TO SURGE TANK TESTING.

7L) FOR ADDITIONAL WATERPROOFING PROTECTION, THE CONTRACTOR SHALL INCLUDE A XYPEX CONCRETE ADMIXTURE AS INDICATED IN THE CONCRETE MIX TABLE.

7M) SUBMIT DOCUMENTATION OF ALL SURGE TANK WATER TESTING AND RESULTS TO ARCH FOR REVIEW.

7N) SURGE TANK LEAKAGE SHALL BE CORRECTED AT CONTRACTOR'S COST.

7P) ALL SURGE TANK REINFORCING STEEL SHALL BE BONDED AND GROUNDED IN ACCORDANCE WITH NEC REQUIREMENTS. COORDINATE THIS WORK WITH THE ELECTRICAL CONTRACTOR PRIOR TO PLACING FORM WORK.

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FOUNDATION PLAN - MECHANICAL BUILDING

S102

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to scale, use scale factor

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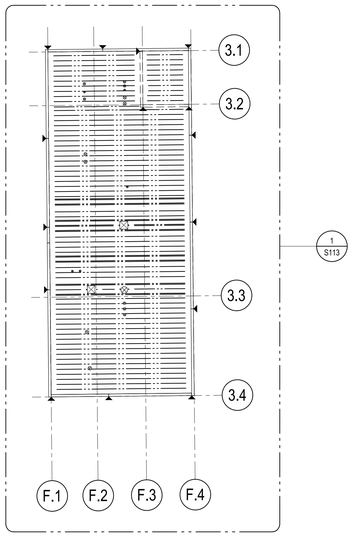

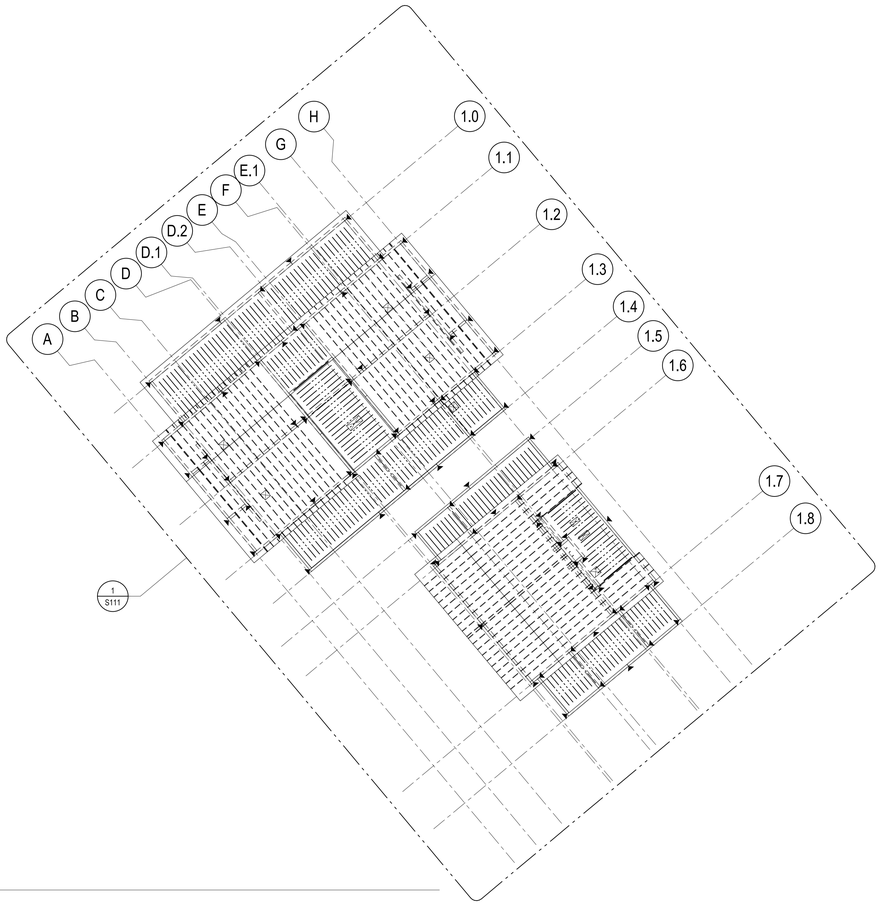

1 OVERALL ROOF FRAMING PLAN

1/16" = 1'-0"

PLAN NOTES

1. GENERAL:

1A) SEE S0 SERIES SHEETS FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.

1B) SEE S3 SERIES SHEETS FOR TYPICAL CONCRETE DETAILS.

1C) SEE S4 SERIES SHEETS FOR TYPICAL MASONRY DETAILS.

1D) SEE S5 SERIES SHEETS FOR TYPICAL STEEL DETAILS.

1C) SEE S6 SERIES SHEETS FOR TYPICAL WOOD DETAILS.

2. COLUMNS:

2A) ALL COLUMNS ARE CENTERED ON THE INTERSECTION OF GRIDS UNLESS DIMENSIONED OTHERWISE ON PLAN.

3. MASONRY WALLS AND VENEER:

3A) STRUCTURAL MASONRY WALLS:
- a. SEE S400 AND S401 FOR TYPICAL STRUCTURAL MASONRY WALL DETAILS.
- b. SEE 14/S400 FOR MASONRY WALL SCHEDULE
- c. SEE 14/S400 FOR MASONRY JAMB SCHEDULE

3B) MASONRY PARTITION WALLS ARE HALFTONED ON PLAN:
- a. MASONRY PARTITION WALLS ARE SHOWN AS A GRAPHICAL REPRESENTATION ONLY, SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL MASONRY PARTITION WALLS.
- b. SEE S401 FOR TYPICAL MASONRY PARTITION WALL DETAILS.

3C) SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS OF ALL MASONRY WALLS.

4. WOOD BEAMS, JOISTS, AND TRUSSES:

4A) BEAMS/JOISTS/TRUSSES SHALL BE EQUALLY SPACED BETWEEN GRIDLINES/COLUMNS/GIRDERS UNLESS DIMENSIONED OTHERWISE

4B) TOP OF BEAMS/JOISTS/TRUSSES SHALL EQUAL BOTTOM OF SHEATHING ELEVATION. SEE PLAN FOR TOP OF SHEATHING ELEVATION AND THICKNESS TO DETERMINE BOTTOM OF SHEATHING ELEVATION.

4C) OPENINGS IN WOOD MEMBERS ARE NOT PERMITTED UNLESS COORDINATED WITH THE SEOR AND SHOWN IN THESE DRAWINGS.

4D) SEE 9/S600 FOR WOOD SHEATHING SCHEDULE. AND S600 FOR TYPICAL WOOD FRAMING DETAILS

4E) SEE S602 FOR PRE-ENGINEERED WOOD ROOF TRUSS NOTES AND DETAILS.

5. MECHANICAL AND ELECTRICAL EQUIPMENT:

5A) CONTRACTOR TO VERIFY ALL EQUIPMENT WEIGHTS, SIZES, LOCATIONS, AND OPENINGS REQUIRED WITH MECHANICAL CONTRACTOR. CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY CHANGES IN THE WEIGHTS OR LOCATIONS SHOWN ON THE DRAWINGS. SUCH CHANGES IN CONDITIONS SHALL BE SUBJECT TO STRUCTURAL ENGINEER REVIEW. RE: MECHANICAL AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL OPENINGS NOT SHOWN.

5B) MECHANICAL EQUIPMENT WEIGHTS, IN KIPS, NOTED ON PLAN THUS: XXk.
- a. MECHANICAL EQUIPMENT WEIGHT SHALL BE EVENLY DISTRIBUTED TO ALL SUPPORTING BEAMS / JOISTS.
- b. EQUIPMENT TO BE PLACED TO BEAR ON TWO BEAMS / JOISTS MINIMUM.
- c. ALL OPENINGS IN FLOOR SHEATHING GREATER THAN 10 INCHES IN ANY DIRECTION SHALL BE SUPPORTED ON ALL FOUR SIDES BY A FRAME.

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415.814.0030 martinmartin.com

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

OVERALL ROOF FRAMING PLAN

S110

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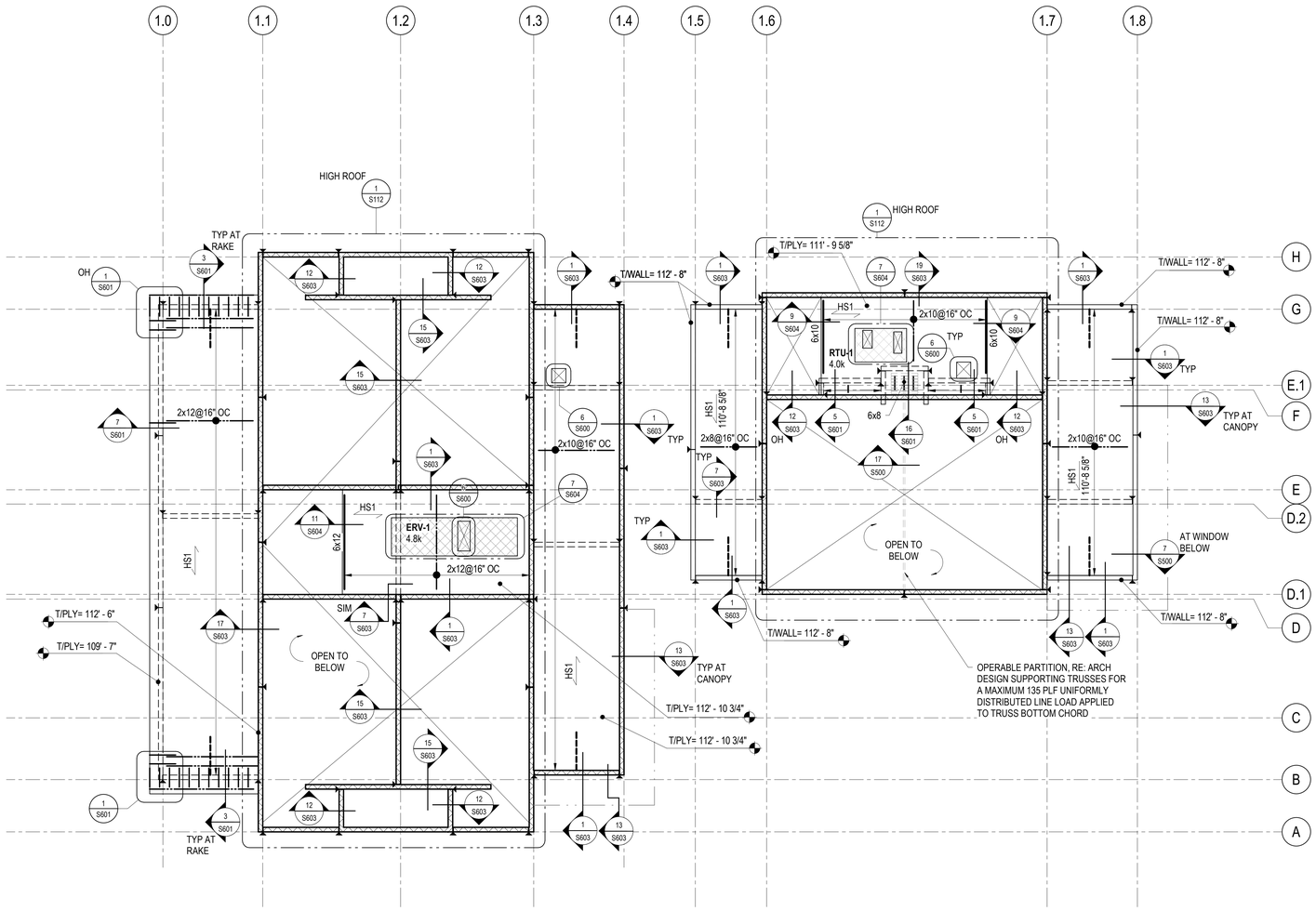
1/22/2025 9:39:00 AM Autodesk Docs://Chico CA Aquatics Center/23.1228.S.01-CHICO AQUATICS CENTER-S24_.rvt



1 LOW ROOF FRAMING PLAN - FACILITIES AND BATH HOUSE

1/8" = 1'-0"

PLAN NOTES

1. GENERAL:

1A) SEE S0 SERIES SHEETS FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.

1B) SEE S3 SERIES SHEETS FOR TYPICAL CONCRETE DETAILS.

1C) SEE S4 SERIES SHEETS FOR TYPICAL MASONRY DETAILS.

1D) SEE S5 SERIES SHEETS FOR TYPICAL STEEL DETAILS.

1C) SEE S6 SERIES SHEETS FOR TYPICAL WOOD DETAILS.

2. COLUMNS:

2A) ALL COLUMNS ARE CENTERED ON THE INTERSECTION OF GRIDS UNLESS DIMENSIONED OTHERWISE ON PLAN.

3. MASONRY WALLS AND VENEER:

3A) STRUCTURAL MASONRY WALLS:
- a. SEE S400 AND S401 FOR TYPICAL STRUCTURAL MASONRY WALL DETAILS.
- b. SEE 14/S400 FOR MASONRY WALL SCHEDULE
- c. SEE 14/S400 FOR MASONRY JAMB SCHEDULE

3B) MASONRY PARTITION WALLS ARE HALFTONED ON PLAN:
- a. MASONRY PARTITION WALLS ARE SHOWN AS A GRAPHICAL REPRESENTATION ONLY, SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL MASONRY PARTITION WALLS.
- b. SEE S401 FOR TYPICAL MASONRY PARTITION WALL DETAILS.

3C) SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS OF ALL MASONRY WALLS.

4. WOOD BEAMS, JOISTS, AND TRUSSES:

4A) BEAMS/JOISTS/TRUSSES SHALL BE EQUALLY SPACED BETWEEN GRIDLINES/COLUMNS/GIRDERS UNLESS DIMENSIONED OTHERWISE

4B) TOP OF BEAMS/JOISTS/TRUSSES SHALL EQUAL BOTTOM OF SHEATHING ELEVATION. SEE PLAN FOR TOP OF SHEATHING ELEVATION AND THICKNESS TO DETERMINE BOTTOM OF SHEATHING ELEVATION.

4C) OPENINGS IN WOOD MEMBERS ARE NOT PERMITTED UNLESS COORDINATED WITH THE SEOR AND SHOWN IN THESE DRAWINGS.

4D) SEE 9/S600 FOR WOOD SHEATHING SCHEDULE. AND S600 FOR TYPICAL WOOD FRAMING DETAILS

4E) SEE S602 FOR PRE-ENGINEERED WOOD ROOF TRUSS NOTES AND DETAILS.

5. MECHANICAL AND ELECTRICAL EQUIPMENT:

5A) CONTRACTOR TO VERIFY ALL EQUIPMENT WEIGHTS, SIZES, LOCATIONS, AND OPENINGS REQUIRED WITH MECHANICAL CONTRACTOR. CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY CHANGES IN THE WEIGHTS OR LOCATIONS SHOWN ON THE DRAWINGS. SUCH CHANGES IN CONDITIONS SHALL BE SUBJECT TO STRUCTURAL ENGINEER REVIEW. RE: MECHANICAL AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL OPENINGS NOT SHOWN.

5B) MECHANICAL EQUIPMENT WEIGHTS, IN KIPS, NOTED ON PLAN THUS: XXk.
- a. MECHANICAL EQUIPMENT WEIGHT SHALL BE EVENLY DISTRIBUTED TO ALL SUPPORTING BEAMS / JOISTS.
- b. EQUIPMENT TO BE PLACED TO BEAR ON TWO BEAMS / JOISTS MINIMUM.
- c. ALL OPENINGS IN FLOOR SHEATHING GREATER THAN 10 INCHES IN ANY DIRECTION SHALL BE SUPPORTED ON ALL FOUR SIDES BY A FRAME.

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Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

LOW ROOF FRAMING PLAN - FACILITIES AND BATH HOUSE

S111

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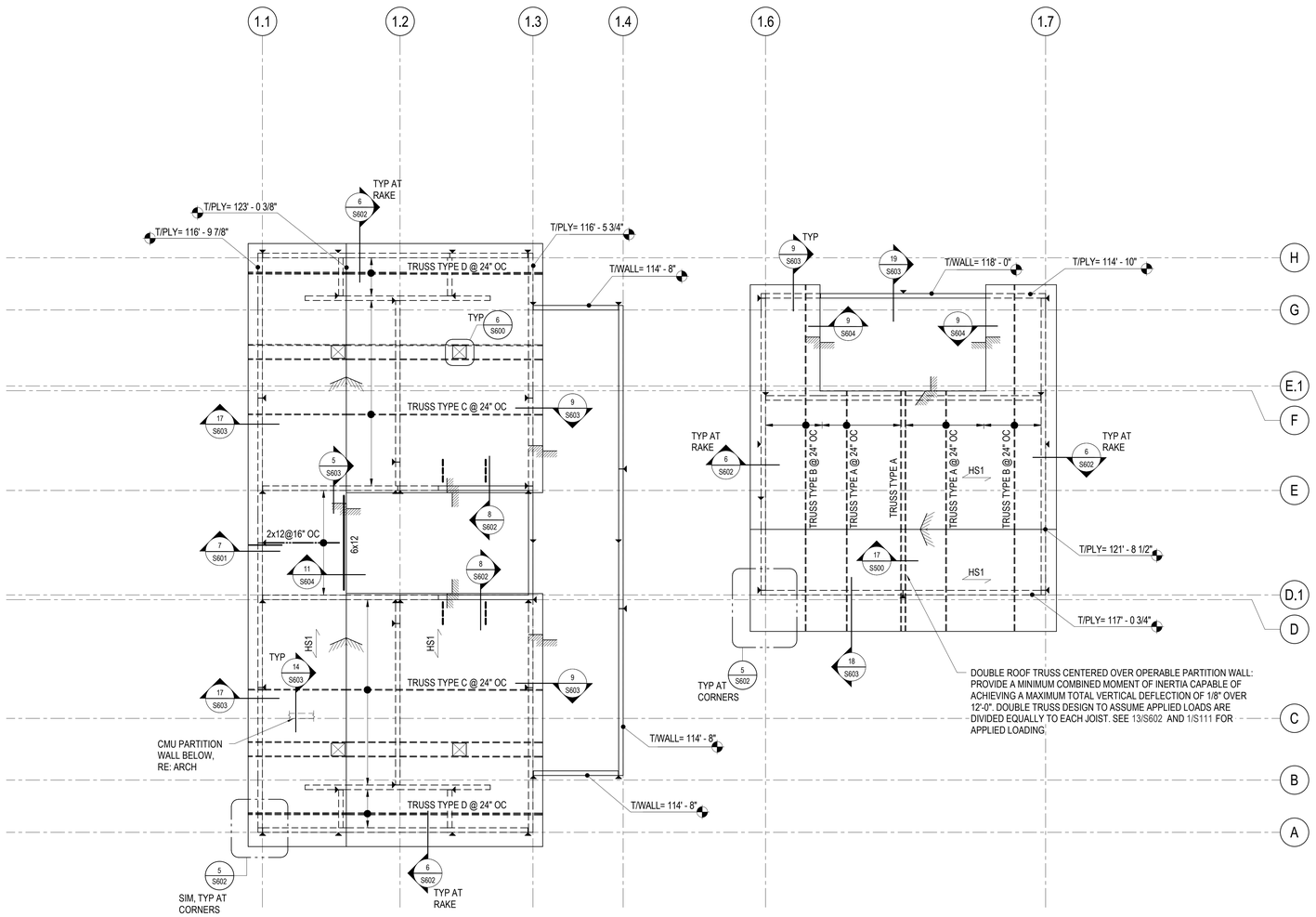

1 HIGH ROOF FRAMING PLAN - FACILITIES AND BATH HOUSE

1/8" = 1'-0"

PLAN NOTES

1. GENERAL:

1A) SEE S0 SERIES SHEETS FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.

1B) SEE S3 SERIES SHEETS FOR TYPICAL CONCRETE DETAILS.

1C) SEE S4 SERIES SHEETS FOR TYPICAL MASONRY DETAILS.

1D) SEE S5 SERIES SHEETS FOR TYPICAL STEEL DETAILS.

1C) SEE S6 SERIES SHEETS FOR TYPICAL WOOD DETAILS.

2. COLUMNS:

2A) ALL COLUMNS ARE CENTERED ON THE INTERSECTION OF GRIDS UNLESS DIMENSIONED OTHERWISE ON PLAN.

3. MASONRY WALLS AND VENEER:

3A) STRUCTURAL MASONRY WALLS:
- a. SEE S400 AND S401 FOR TYPICAL STRUCTURAL MASONRY WALL DETAILS.
- b. SEE 14/S400 FOR MASONRY WALL SCHEDULE
- c. SEE 14/S400 FOR MASONRY JAMB SCHEDULE

3B) MASONRY PARTITION WALLS ARE HALFTONED ON PLAN:
- a. MASONRY PARTITION WALLS ARE SHOWN AS A GRAPHICAL REPRESENTATION ONLY, SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL MASONRY PARTITION WALLS.
- b. SEE S401 FOR TYPICAL MASONRY PARTITION WALL DETAILS.

3C) SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS OF ALL MASONRY WALLS.

4. WOOD BEAMS, JOISTS, AND TRUSSES:

4A) BEAMS/JOISTS/TRUSSES SHALL BE EQUALLY SPACED BETWEEN GRIDLINES/COLUMNS/GIRDERS UNLESS DIMENSIONED OTHERWISE

4B) TOP OF BEAMS/JOISTS/TRUSSES SHALL EQUAL BOTTOM OF SHEATHING ELEVATION. SEE PLAN FOR TOP OF SHEATHING ELEVATION AND THICKNESS TO DETERMINE BOTTOM OF SHEATHING ELEVATION.

4C) OPENINGS IN WOOD MEMBERS ARE NOT PERMITTED UNLESS COORDINATED WITH THE SEOR AND SHOWN IN THESE DRAWINGS.

4D) SEE 9/S600 FOR WOOD SHEATHING SCHEDULE. AND S600 FOR TYPICAL WOOD FRAMING DETAILS

4E) SEE S602 FOR PRE-ENGINEERED WOOD ROOF TRUSS NOTES AND DETAILS.

5. MECHANICAL AND ELECTRICAL EQUIPMENT:

5A) CONTRACTOR TO VERIFY ALL EQUIPMENT WEIGHTS, SIZES, LOCATIONS, AND OPENINGS REQUIRED WITH MECHANICAL CONTRACTOR. CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY CHANGES IN THE WEIGHTS OR LOCATIONS SHOWN ON THE DRAWINGS. SUCH CHANGES IN CONDITIONS SHALL BE SUBJECT TO STRUCTURAL ENGINEER REVIEW. RE: MECHANICAL AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL OPENINGS NOT SHOWN.

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CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
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HIGH ROOF FRAMING PLAN - FACILIIES AND BATH HOUSE

S112

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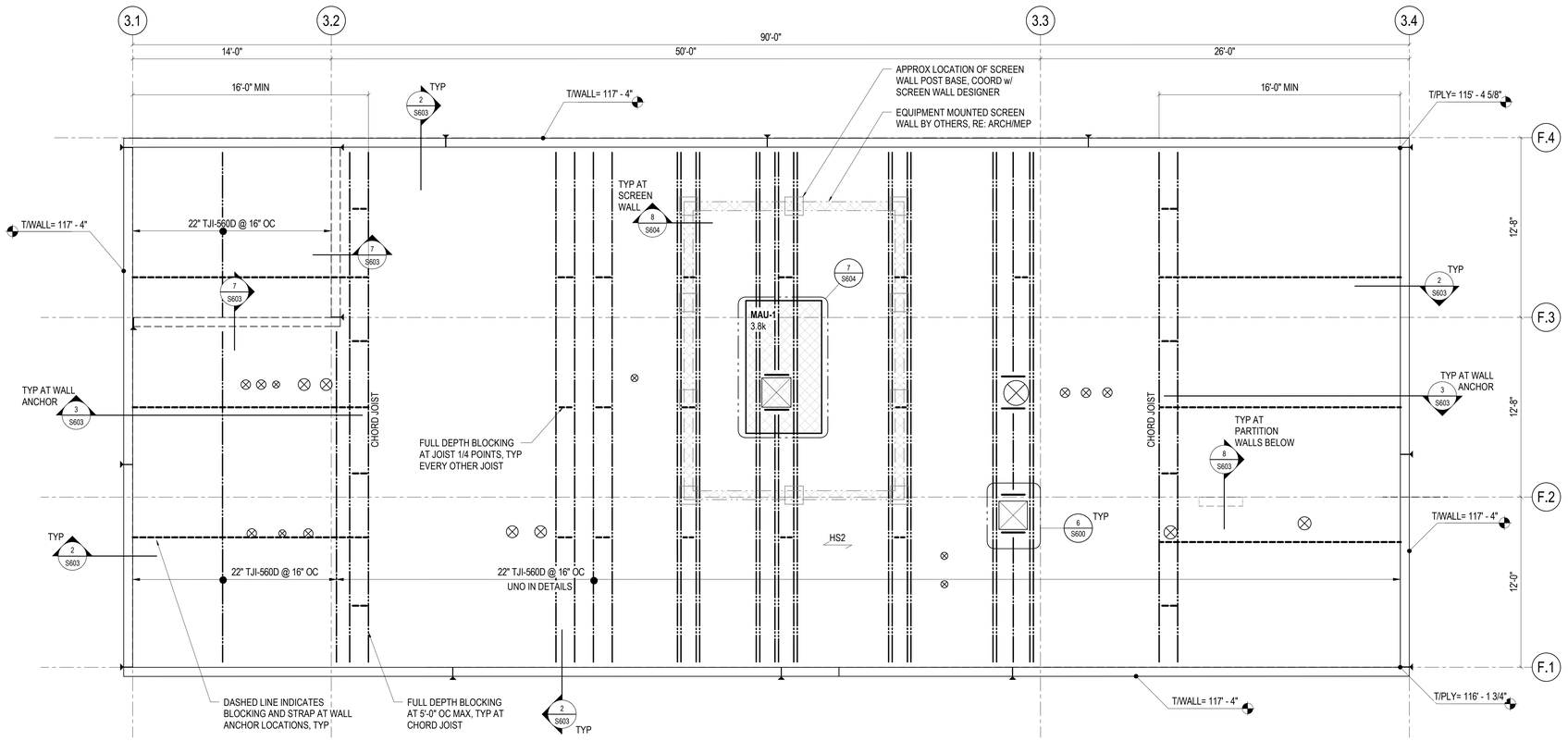

1 ROOF FRAMING PLAN - MECHANICAL BUILDING

1/4" = 1'-0"

PLAN NOTES

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CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
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ROOF FRAMING PLAN - MECHANICAL BUILDING

S113

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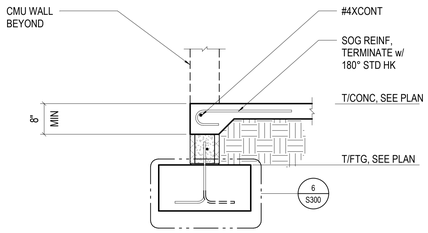
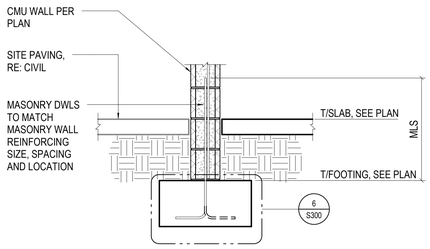
to paper size, use 24x36
to scale drawings correctly

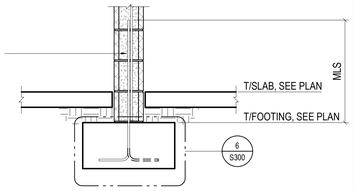


17 3/4" = 1'-0" TYPICAL WALL FOUNDATION AT DOORS/ STOREFRONTS



NOTE:
1. STRIP FOOTING REINFORCING NOT SHOWN
2. SLAB ON GRADE REINFORCING NOT SHOWN

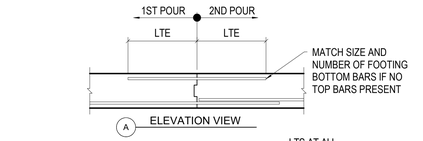
13 3/4" = 1'-0" TYPICAL PERIMETER CMU WALL FOUNDATION



NOTE:
1. STRIP FOOTING REINFORCING NOT SHOWN

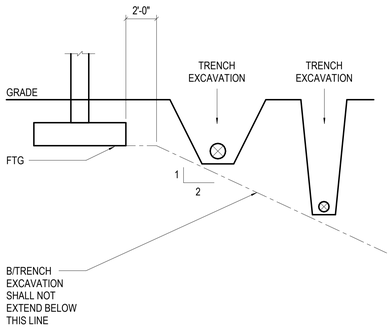
9 3/4" = 1'-0" INTERIOR CMU WALL ON STRIP FOOTING

STRIP FOOTING SCHEDULE				
MARK	FOOTING SIZE W x T	LONG REINF	TRANS REINF	REMARKS
SF30A	2'-6" x 1'-0"	(4) #5	#5@10" OC	TOP & BOT
SF48A	4'-0" x 1'-4"	(5) #5	#5@10" OC	TOP & BOT
SF72A	6'-0" x 1'-4"	(7) #5	#5@12" OC	TOP & BOT

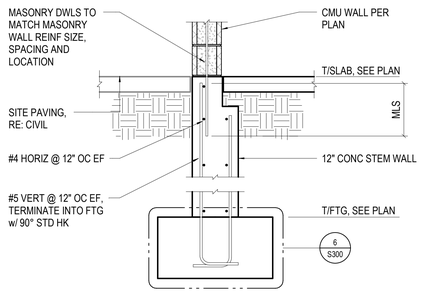


NOTES:
1. SEE 12/S300 FOR POUR LENGTH LIMITS AND CONSTRUCTION JOINT DETAILS

6 NO SCALE TYP STRIP FOOTING



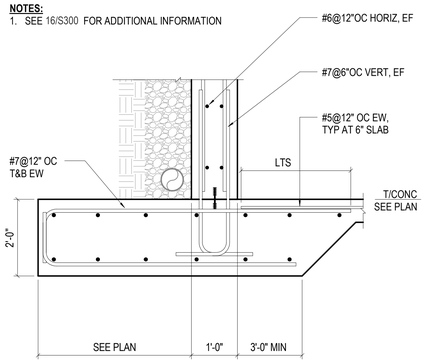
1 NO SCALE TYP EXCAVATION AT FTG



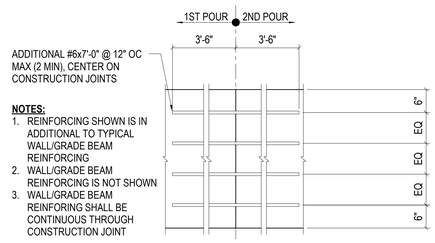
NOTE:
1. STRIP FOOTING REINFORCING NOT SHOWN
2. SLAB ON GRADE REINFORCING NOT SHOWN

18 3/4" = 1'-0" CONCRETE STEM WALL AT MECHANICAL BUILDING

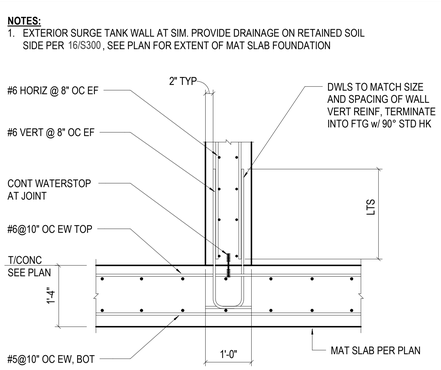
NOTES:
1. SEE 16/S300 FOR ADDITIONAL INFORMATION



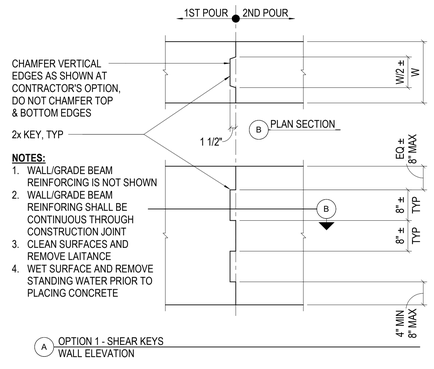
14 NO SCALE PUMP PIT RETAINING WALL FOUNDATION DETAIL



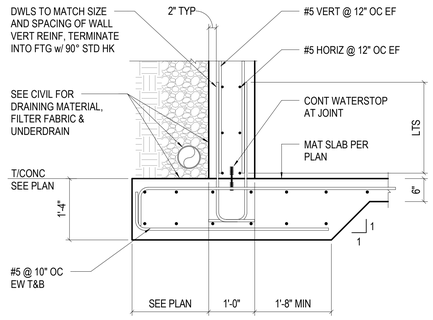
NOTES:
1. REINFORCING SHOWN IS IN ADDITIONAL TO TYPICAL WALL/GRADE BEAM REINFORCING
2. WALL/GRADE BEAM REINFORCING IS NOT SHOWN
3. WALL/GRADE BEAM REINFORING SHALL BE CONTINUOUS THROUGH CONSTRUCTION JOINT



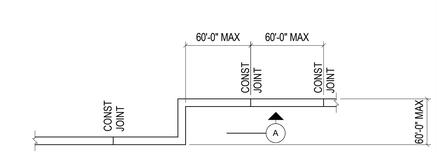
15 3/4" = 1'-0" SURGE TANK WALL FOUNDATION



NOTES:
1. WALL/GRADE BEAM REINFORCING IS NOT SHOWN
2. WALL/GRADE BEAM REINFORING SHALL BE CONTINUOUS THROUGH CONSTRUCTION JOINT
3. CLEAN SURFACES AND REMOVE LAITANCE
4. WET SURFACE AND REMOVE STANDING WATER PRIOR TO PLACING CONCRETE

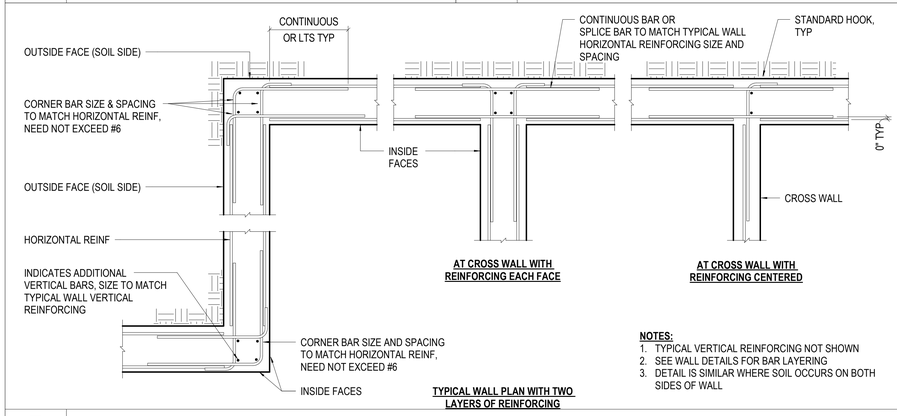


16 3/4" = 1'-0" PUMP PIT WALL FOUNDATION



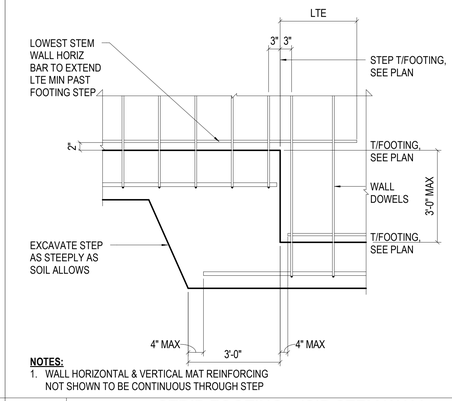
NOTES:
1. SUBMIT LOCATIONS OF CONSTRUCTION JOINTS FOR REVIEW PRIOR TO CONSTRUCTION
2. PLACE A MAXIMUM OF 60 FEET OF CONCRETE IN A STRAIGHT LENGTH OF WALL IN A SINGLE POUR

12 NO SCALE CONSTRUCTION JOINT IN WALL ON FOOTINGS



NOTES:
1. TYPICAL VERTICAL REINFORCING NOT SHOWN
2. SEE WALL DETAILS FOR BAR LAYERING
3. DETAIL IS SIMILAR WHERE SOIL OCCURS ON BOTH SIDES OF WALL

7 NO SCALE TYPICAL HORIZONTAL REINF AT BASEMENT AND FOUNDATION WALLS



NOTES:
1. WALL HORIZONTAL & VERTICAL MAT REINFORCING NOT SHOWN TO BE CONTINUOUS THROUGH STEP

8 3/4" = 1'-0" STRIP FOOTING w/CIP STEM WALL STEP, 3'-0" AND LESS

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

2 1/4" = 1'-0" TYP FTG ADJACENT TO WALL

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CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

TYPICAL FOUNDATION DETAILS

S300

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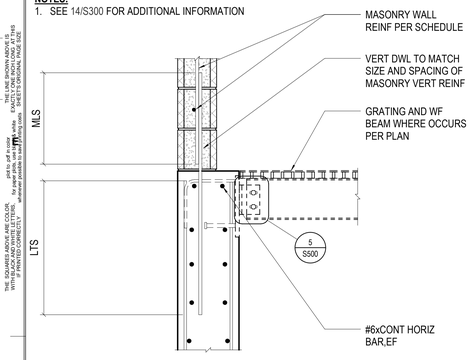
1/22/2025 9:39:03 AM Autodesk Docs://Chico CA Aquatics Center/23.1228.S.01-CHICO AQUATICS CENTER-S24_.rvt

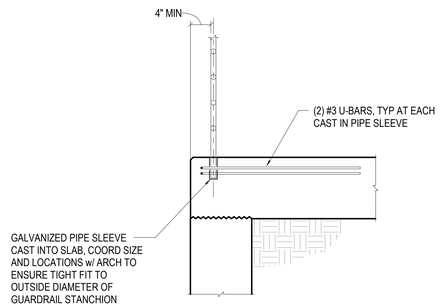
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE PLOTTING
IF NOT ONE INCH, ADJUST ALL SCALES ACCORDINGLY
THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, WHEN PLOTTED AT FULL SIZE

NOTES:
1. SEE 14/S300 FOR ADDITIONAL INFORMATION

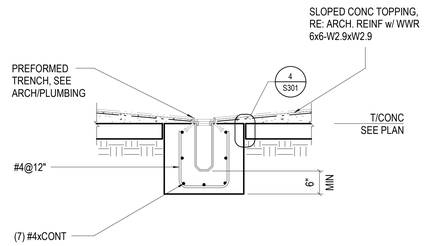


17 1" = 1'-0" EXTERIOR PIT WALL TO CMU WALL CONN

NOTES:
1. SEE 14/S301 FOR ADDITIONAL INFORMATION
2. SLAB AND WALL REINF NOT SHOWN FOR CLARITY
3. RE: ARCH FOR EXTENT OF GUARDRAIL INTENDED TO BE REMOVEABLE (MAX 6'-0")

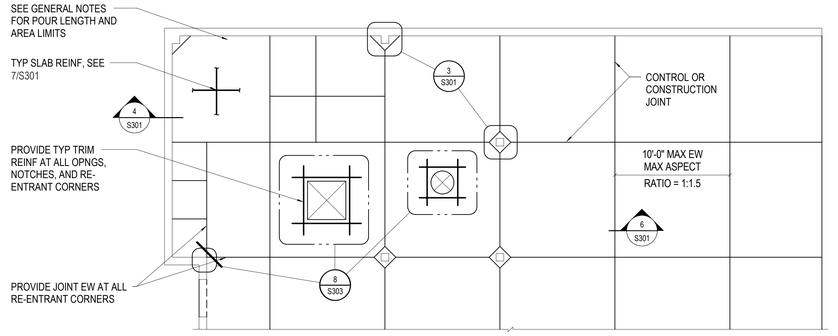


13 1" = 1'-0" REMOVEABLE GUARDRAIL AT CONC PIT WALL



NOTES:
1. SEE ARCH/PLUMBING FOR EXACT SIZE AND LOCATION OF TRENCHES

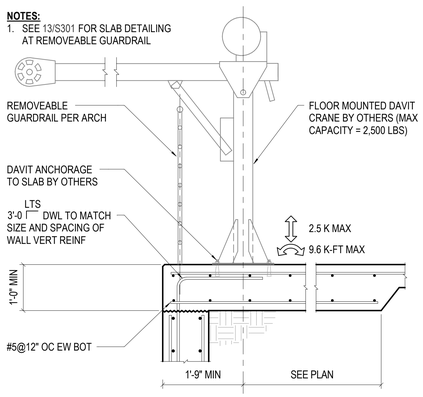
9 3/4" = 1'-0" SOG PREFORMED TRENCH LINER



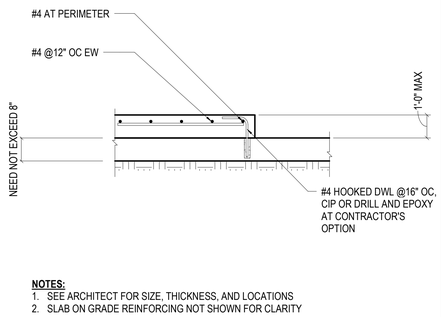
NOTES:
1. KEY PLAN ILLUSTRATES CONSTRUCTION CONCEPTS ONLY. SEE PLAN FOR ACTUAL DIMENSIONS AND ARRANGEMENT
2. PROVIDE ADDITIONAL CONTROL JOINTS AT ABRUPT CHANGES IN THICKNESS AND LOCATIONS PRONE TO CRACKING, COORD LOCS WITH FLOOR FINISHES AND INTERIOR WALLS

5 NO SCALE TYP SOG KEY PLAN

NOTES:
1. SEE 13/S301 FOR SLAB DETAILING AT REMOVEABLE GUARDRAIL

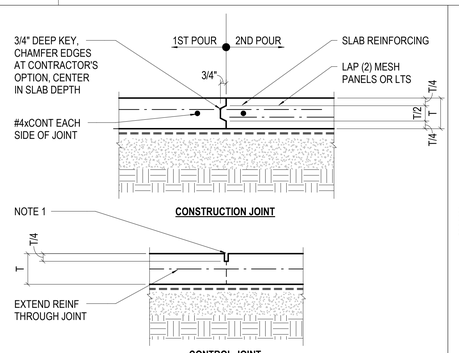


14 3/4" = 1'-0" THICKENED SLAB BENEATH DAVIT CRANE



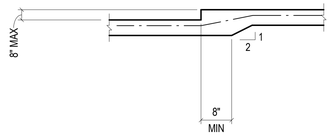
NOTES:
1. SEE ARCHITECT FOR SIZE, THICKNESS, AND LOCATIONS
2. SLAB ON GRADE REINFORCING NOT SHOWN FOR CLARITY

10 3/4" = 1'-0" TYPICAL SOG EQUIPMENT PAD



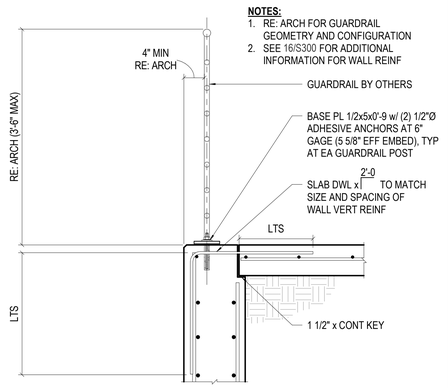
NOTES:
1. PROVIDE TOOLED JOINT OR SAW CUT AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PERMIT CUTTING WITHOUT CHIPPING, SPALLING, OR TEARING (BUT NOT MORE THAN 12 HOURS AFTER CASTING)

6 1 1/2" = 1'-0" SLAB-ON-GRADE JOINTS

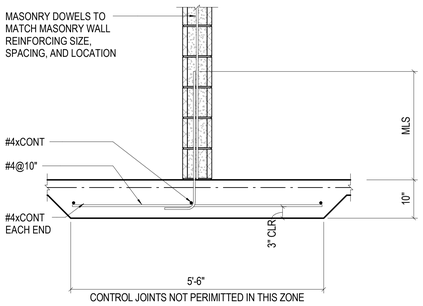


2 3/4" = 1'-0" TYPICAL SOG STEP

NOTES:
1. RE: ARCH FOR GUARDRAIL GEOMETRY AND CONFIGURATION
2. SEE 16/S300 FOR ADDITIONAL INFORMATION FOR WALL REINF



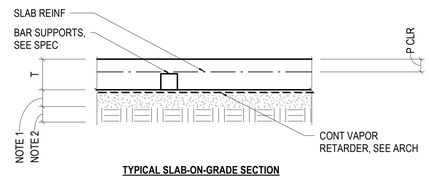
15 1" = 1'-0" GUARDRAIL AT CONC PIT WALL



11 3/4" = 1'-0" SOG BELOW MASONRY PARTITION WALL (CANTILEVERED FROM SOG)

SLAB ON GRADE SCHEDULE

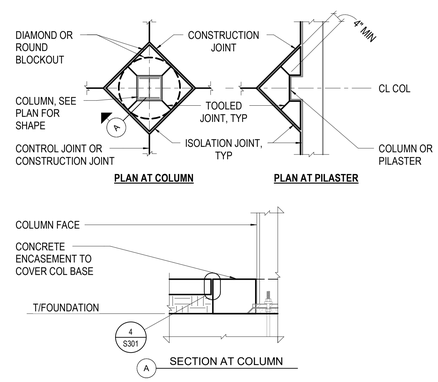
TYPE	THICKNESS T	REINF	BAR POSITION	REMARKS
SOG4A	4"	#3@18"	CENTERED	EACH WAY
SOG6A	6"	#3@12"	CENTERED	EACH WAY



TYPICAL SLAB-ON-GRADE SECTION

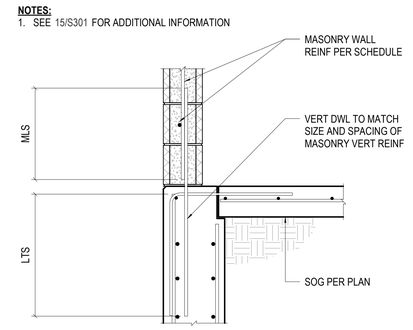
NOTES:
1. GRANULAR COURSE: SEE GEOTECHNICAL REPORT
2. PREPARED/COMPACTED SUBGRADE, SEE GEOTECHNICAL REPORT

7 1" = 1'-0" TYP SOG SCHEDULE

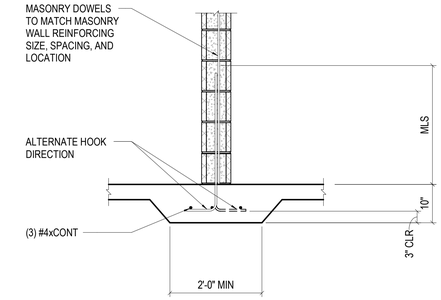


3 3/4" = 1'-0" SOG BLOCKOUT AT COLUMN/PILASTER

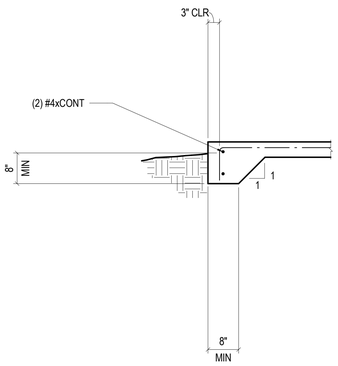
NOTES:
1. SEE 15/S301 FOR ADDITIONAL INFORMATION



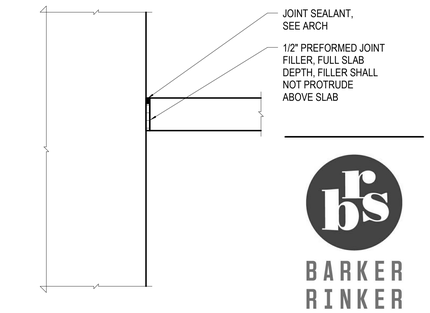
16 1" = 1'-0" CMU WALL OVER CONC PIT WALL AT ADJACENT SOG



12 3/4" = 1'-0" SOG BELOW MASONRY PARTITION WALL (BRACED AT TOP)



8 NO SCALE SOG DOWN-TURNED EDGE



4 1 1/2" = 1'-0" TYP SOG ISOLATION JOINT

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CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

BARKER RINKER SEACAT ARCHITECTURE
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Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

TYPICAL SLAB ON GRADE DETAILS

S301

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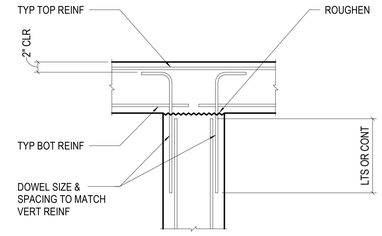
THE SQUARES ABOVE ARE COLOR WITH BLACK AND WHITE LETTERS. IF YOUR PRINT DOES NOT MATCH, ADJUST YOUR PRINT SETTINGS.

IF NOT 1" ON THIS SHEET, SCALE DRAWINGS ACCORDINGLY

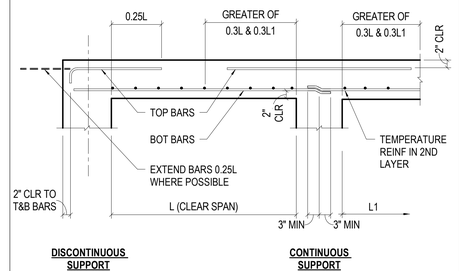
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH ONLY, IF IT'S NOT, ADJUST YOUR PRINT SETTINGS.

NOTES:
1. SEE 2/S302 FOR ADDITIONAL INFORMATION

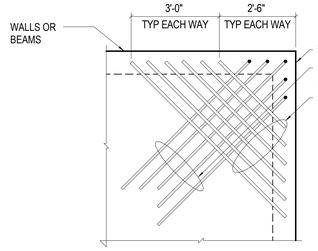


5 1" = 1'-0" TYP CONT CIP SLAB OVER WALL DETAIL

ONE WAY SLAB SCHEDULE					
MARK	THICKNESS T	PRIMARY BARS		TEMP REINF	REMARKS
		TOP BARS	BOT BARS		
OWS10A	10"	#5@6"	#6@6"	#5@12"	-
OWS12A	12	#6@6"	#6@6"	#5@12"	-



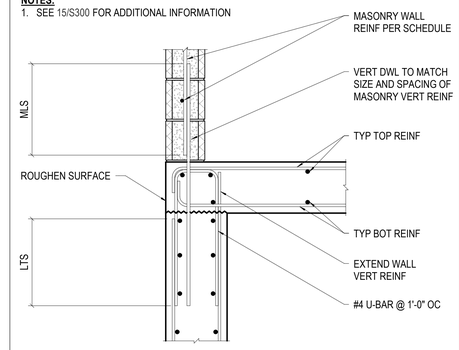
1 3/4" = 1'-0" TYP ONE-WAY SLAB SCHEDULE



NOTES:
1. OMIT CORNER BARS IF NO PERIMETER WALLS OR BEAMS EXIST
2. PLACE CORNER REINF INSIDE FLEXURAL REINF

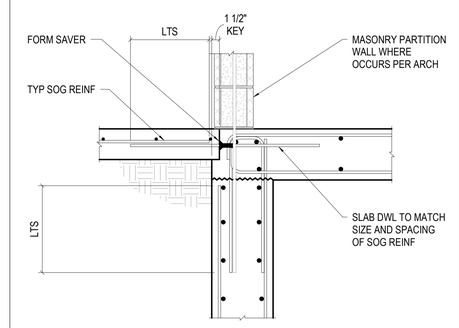
6 3/4" = 1'-0" TYP SLAB CORNER REINF

NOTES:
1. SEE 15/S300 FOR ADDITIONAL INFORMATION

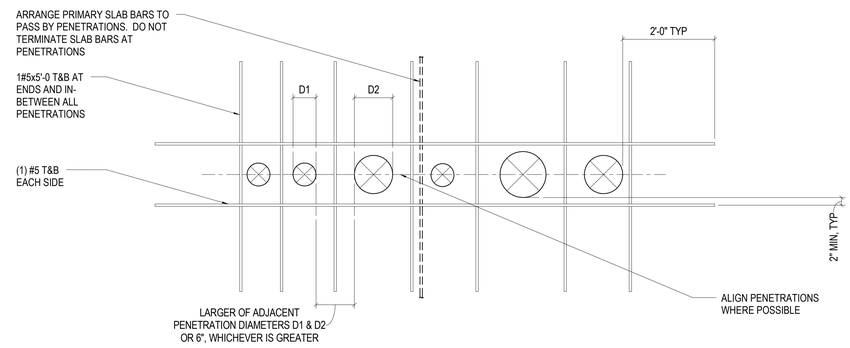


2 1" = 1'-0" TYP CIP SLAB EDGE AT PERIMETER

NOTES:
1. SEE 2/S302 FOR ADDITIONAL INFORMATION

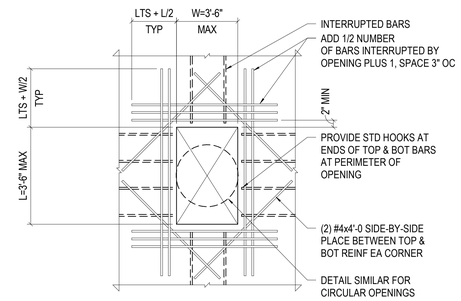


3 1" = 1'-0" TYP CIP SLAB TO SOG TRANSITION

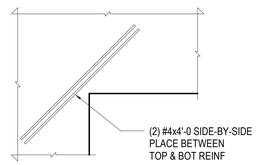


NOTES:
1. DETAIL DOES NOT APPLY FOR PENETRATIONS LARGER THAN 12" IN DIAMETER. SEE TYP SLAB OPENING DETAIL FOR SUCH PENETRATIONS

AT OPENINGS 12" OR LESS



TYPICAL OPENINGS



AT REENTRANT CORNERS

12 NO SCALE TYP CIP SLAB OPENING/CORNER REINF

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CHICO AREA RECREATION & PARK DISTRICT

BARKER RINKER SEACAT ARCHITECTURE
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Project Number	23030
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CONCRETE SLAB DETAILS

S302

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAGE SIZE
plot to .pdf in color for paper plots, use black & white whenever possible to save printing costs
THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, IF PRINTED CORRECTLY

REBAR COVER TABLE

CASE	COVER (IN)
CONCRETE PLACED AGAINST EARTH	3
CONCRETE PLACED IN FORMS, EXPOSED TO WEATHER OR EARTH	2
CONCRETE PLACED ON VOID FORMS WITH MASONITE OR PLYWOOD COVERING	2
SLABS OR WALLS NOT EXPOSED TO EARTH OR WEATHER	1

LAP SPLICE & DEVELOPMENT LENGTHS (INCHES) F'c=3,000 PSI, Fy=60,000 PSI

SPACING / BAR SIZE	LDH s≥6db	LDH s<6db	LCS	LCS	LTE 1"	LTE 1.5"	LTE 2"+	LTE TOP & LTS 1"	LTE TOP & LTS 1.5"	LTE TOP & LTS 2"+	LTS TOP 1"	LTS TOP 1.5"	LTS TOP 2"+
#3	6	6	9	12	12			13			17		
#4	6	10	11	15	14			18			23		
#5	8	13	14	19	20	17		26	22		34	28	
#6	11	17	17	23	27	20		35	26		46	34	
#7	14	21	20	27	44	33	29	57	43	38	74	55	49
#8	16	26	22	30	55	42	33	72	54	43	93	70	56
#9	20	31	25	34	67	51	41	87	66	54	113	86	69
#10	23	37	28	39	82	63	51	106	81	66	137	105	85
#11	27	43	31	43	96	75	61	125	97	79	162	126	103

LAP SPLICE & DEVELOPMENT LENGTHS (INCHES) F'c=4,000 PSI, Fy=60,000 PSI

SPACING / BAR SIZE	LDH s≥6db	LDH s<6db	LCE	LCS	LTE 1"	LTE 1.5"	LTE 2"+	LTE TOP & LTS 1"	LTE TOP & LTS 1.5"	LTE TOP & LTS 2"+	LTS TOP 1"	LTS TOP 1.5"	LTS TOP 2"+
#3	6	6	8	12	12			12			15		
#4	6	9	10	15	12			15			20		
#5	8	12	12	19	17	15		23	19		29	25	
#6	10	16	15	23	24	18		31	23		40	29	
#7	13	20	17	27	38	29	25	50	37	33	65	48	43
#8	15	24	19	30	48	36	29	62	47	37	81	61	49
#9	18	29	22	34	58	44	36	76	58	46	98	75	60
#10	22	35	25	39	71	54	44	92	70	57	119	91	74
#11	26	41	27	43	83	65	53	108	84	68	141	109	89

LAP SPLICE & DEVELOPMENT LENGTHS (INCHES) F'c=5,000 PSI, Fy=60,000 PSI

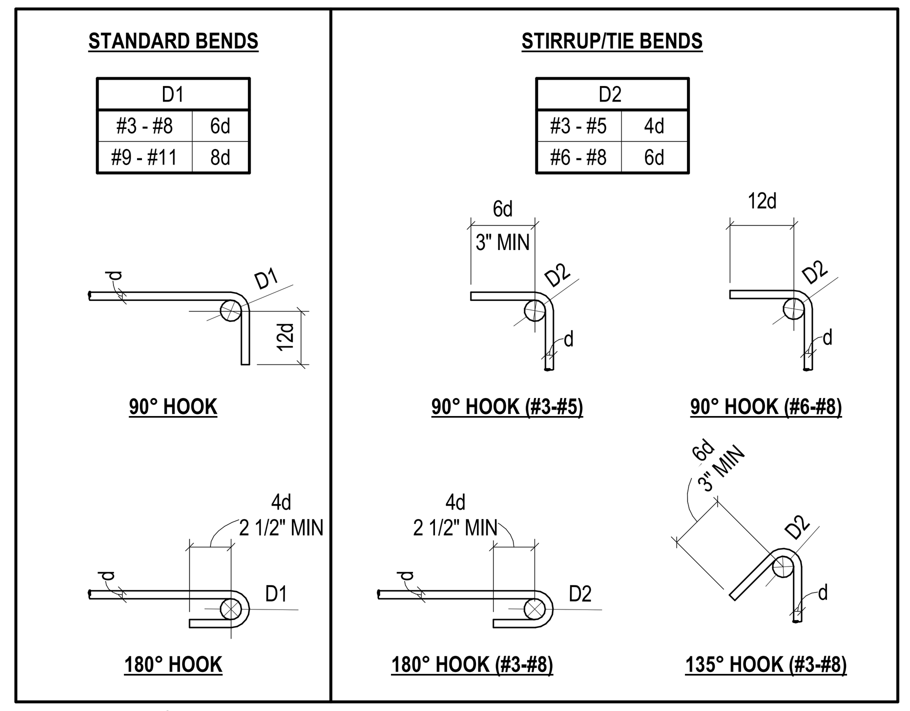
SPACING / BAR SIZE	LDH s≥6db	LDH s<6db	LCE	LCS	LTE 1"	LTE 1.5"	LTE 2"+	LTE TOP & LTS 1"	LTE TOP & LTS 1.5"	LTE TOP & LTS 2"+	LTS TOP 1"	LTS TOP 1.5"	LTS TOP 2"+
#3	6	6	8	12	12			12			13		
#4	6	9	9	15	12			14			18		
#5	8	12	12	19	16	13		20	17		26	22	
#6	10	15	14	23	21	16		28	20		36	26	
#7	12	19	16	27	34	26	23	45	33	29	58	43	38
#8	15	24	18	30	43	32	26	56	42	34	72	54	44
#9	18	28	21	34	52	40	32	68	52	42	88	67	54
#10	21	33	23	39	63	49	39	82	63	51	107	82	66
#11	25	39	26	43	75	58	47	97	75	61	126	97	80

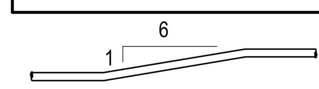
GENERAL NOTES:
1. LENGTHS SPECIFICALLY DETAILED ON DRAWINGS SHALL GOVERN IN LIEU OF LAP LENGTHS SCHEDULED
2. ABBREVIATIONS:
   A. 'LCE' = COMPRESSION EMBEDMENT LENGTH
   B. 'LCS' = COMPRESSION LAP SPLICE LENGTH
   C. 'LDH' = HOOK DEVELOPMENT LENGTH
   D. 'LTE' = TENSION EMBEDMENT LENGTH
   E. 'LTS' = TENSION LAP SPLICE LENGTH
3. 'TOP' BARS ARE HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12 IN OF FRESH CONCRETE IS CAST BELOW THE BAR
4. CLEAR COVER IS DEFINED FROM THE NEAREST FACE OF CONCRETE TO THE FACE OF BAR BEING DEVELOPED OR SPLICED
5. UNLESS NOTED OTHERWISE, ALL HOOK BARS SHALL EXTEND TO THE FAR FACE LESS 2" COVER
6. IF A NOTE OR DETAIL CALLS FOR A BAR TO BE EMBEDDED Ld (DEVELOPMENT LENGTH) INTO CONCRETE, THIS SHALL CORRESPOND TO A 'LTE' LENGTH
7. IF A NOTE OR DETAIL REQUIRES A BAR TO HAVE A DEVELOPMENT OR LAP LENGTH BUT INSUFFICIENT DIMENSION IS AVAILABLE FOR THE LENGTH SCHEDULED, EXTEND BAR TO FAR FACE OF CONCRETE LESS 2" COVER AND HOOK
8. CLEAR SPACING BETWEEN VERTICAL BARS IN COLUMNS, PILASTERS, AND WALL BOUNDRY ELEMENTS SHALL NOT BE LESS THAN THE LESSER OF 1.5 INCHES, 1.5xBAR DIAMETER, AND 1.33xAGGREGATE SIZE

ADJUSTMENTS TO GIVEN LENGTHS:
1. IF REINFORCING IS SPECIFIED AS EPOXY COATED, INCREASE SCHEDULED LENGTHS BY 50%
2. IF LIGHTWEIGHT AGGREGATE IS SPECIFIED, INCREASE SCHEDULED LAP BY LENGTHS 33%
3. SCHEDULED LENGTHS ASSUME:
   A. CLEAR COVER IS AS INDICATED IN SCHEDULE, BUT NOT LESS THAN 1 BAR DIAMETER OR REQUIRED COVER FROM 'REBAR COVER TABLE'
   B. CLEAR SPACING BETWEEN BARS IS GREATER THAN 2xCLEAR COVER
   C. IF CONDITION B IS NOT MET FOR A GIVEN BAR, RECALCULATE LENGTH USING A COVER EQUAL TO ONE-HALF OF THE CLEAR BAR SPACING
4. LENGTHS NOTED BASED ON Fy = 60,000 PSI.
   A. FOR OTHER YIELD STRENGTHS, MULTIPLY LENGTHS NOTED BY Fy/60,000

LAP SPLICE NOTES:
1. ALL SPLICES SHALL BE WIRED IN CONTACT
2. ALL SPLICES ARE 'LTS' UNLESS NOTED OTHERWISE
3. SMALLER BAR LAP LENGTH SHALL BE USED WHEN SPLICING DIFFERENT SIZED BARS
   A. COMPRESSION LAP LENGTH SHALL NOT BE LESS THAN 'LCE' OF THE LARGER BAR
   B. TENSION LAP LENGTH SHALL NOT BE LESS THAN 'LTE' OF THE LARGER BAR
4. BUNDLED BAR SPLICES:
   A. INDIVIDUAL BAR SPLICES WITHIN THE BUNDLE SHALL BE STAGGERED BY 40xBAR DIAMETER
   B. INCREASE LAP LENGTH 20% FOR A 3 BAR BUNDLE
   C. INCREASE LAP LENGTH 33% FOR A 4 BAR BUNDLE
5. TOP AND BOTTOM BEAM SPLICES SHALL BE STACKED VERTICALLY

HOOK EMBEDMENT NOTES:
1. SCHEDULED HOOK EMBEDMENT LENGTHS ASSUME:
   A. SIDE COVER IS 2 1/2 INCHES OR GREATER
   B. COVER BEYOND IS 2 INCHES OR GREATER
2. IF REINFORCING IS SPECIFIED AS EPOXY COATED, INCREASE SCHEDULED LENGTHS BY 20%
3. IF LIGHTWEIGHT AGGREGATE IS SPECIFIED, INCREASE SCHEDULED LENGTHS BY 33%
4. IF SIDE COVER IS LESS THAN 2 1/2 INCHES, INCREASE LENGTHS BY 25%



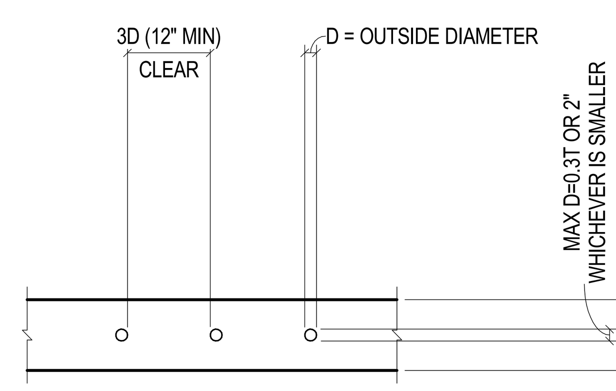


MAX OFFSET BEND

NOTES:
1. ALL BENDS SHALL BE MADE COLD
2. #14 & #18 BARS SHALL BE BEND TESTED & LAB APPROVED PRIOR TO BENDING

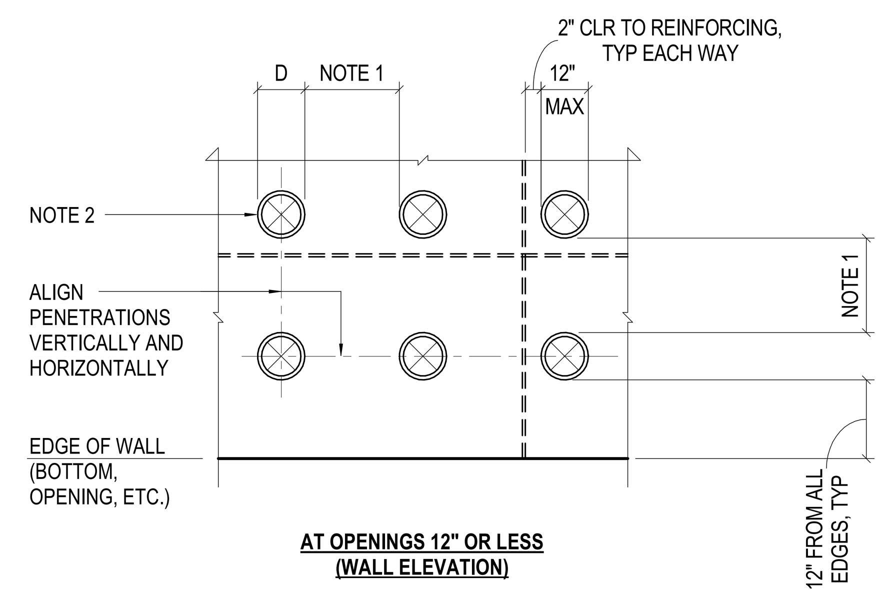
TYPICAL REINFORCING BENDS

10 NO SCALE REINFORCING DEVELOPMENT, PLACEMENT, AND BEND INFO



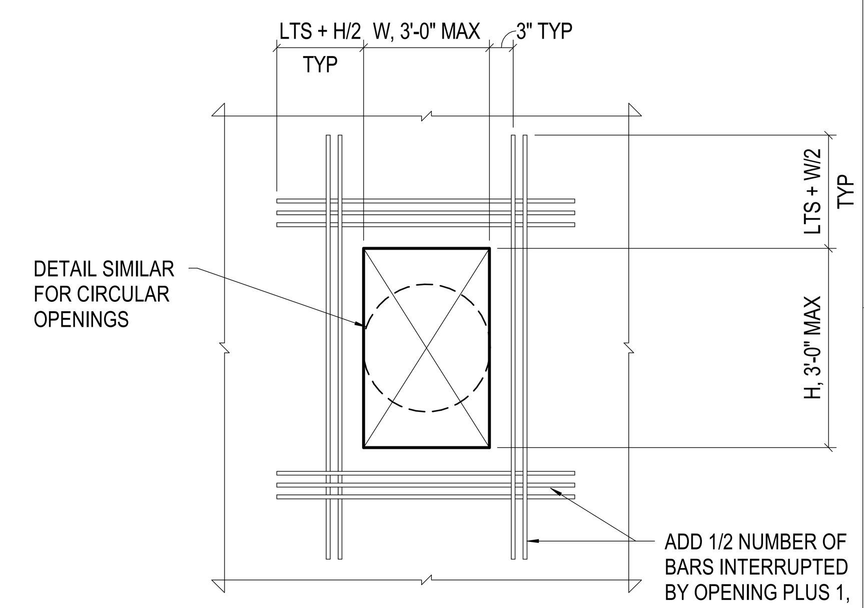
AT PIPING OR CONDUIT (WALL SECTION)

NOTES:
1. WHERE CLEAR DISTANCE BETWEEN PIPING/CONDUIT CAN NOT BE ACHIEVED AS SHOWN, STRUCTURAL ENGINEER OF RECORD SHALL BE NOTIFIED FOR REVIEW
2. IN WALL PIPING/CONDUITS GREATER THAN 0.3T SHALL BE SUBMITTED FOR REVIEW
3. LOCATE PIPING/CONDUITS WITHIN MIDDLE THIRD (T/3) OF WALL



AT OPENINGS 12" OR LESS (WALL ELEVATION)

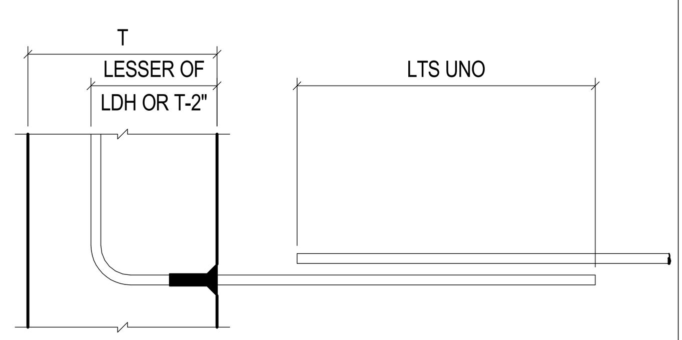
NOTES:
1. GREATER OF 2xD AND 12", WHERE CLEAR DISTANCE IS NOT ACHIEVABLE, TREAT AREA AS SINGLE OPENING REINFORCED PER "TYPICAL OPENING" DETAIL
2. DO NOT CORE OPENINGS, SLEEVE OPENINGS PRIOR TO PLACING CONCRETE
3. DO NOT CUT REBAR AT PENETRATION LOCATIONS. REBAR MAY BE MOVED 8" MAX TO ACCOMMODATE PENETRATIONS. WHERE WALL PENETRATION INTERRUPTS REBAR PROVIDE TYPICAL OPENING (WALL ELEVATION) TRIM REINFORCING



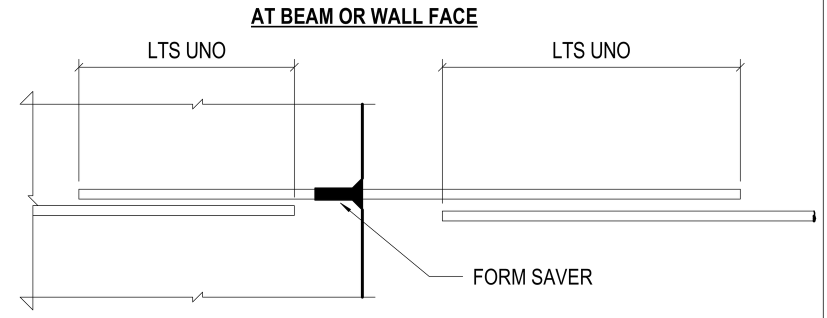
TYPICAL OPENING (WALL ELEVATION)

NOTES:
1. DETAIL APPLIES UNLESS REINFORCING IS SPECIFICALLY DETAILED ON THE DRAWINGS
2. HOOK BARS WITH STANDARD HOOK WHERE LTS CANNOT BE ACHIEVED

11 NO SCALE CAST IN PLACE WALL PENETRATIONS



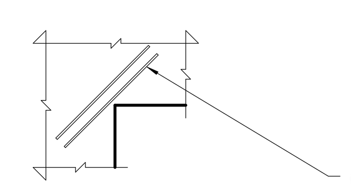
AT BEAM OR WALL FACE



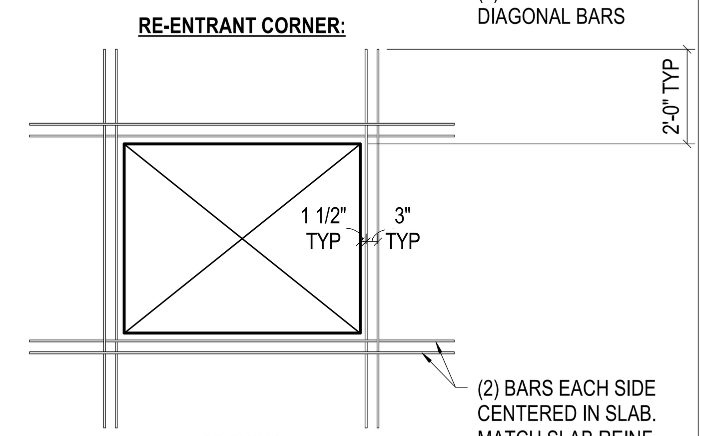
AT BEAM OR WALL END

NOTES:
1. FORM SAVERS SHOWN ON DRAWINGS ARE SUGGESTED BASED ON ANTICIPATED CONSTRUCTION SEQUENCE AND FORMING SYSTEM, GENERAL CONTRACTORS AND SUB-CONTRACTORS MAY COORDINATE AND INSTALL CONTINUOUS BARS OR BREAK-OUT BARS TO PROVIDE EQUIVALENT CONTINUITY

12 NO SCALE TYP FORMSAVER



RE-ENTRANT CORNER:



OPENING

NOTES:
1. DETAIL APPLIES FOR ALL OPENINGS IN SOGs AND TOPPING SLABS
2. REINF NOT REQUIRED AT OPENINGS SMALLER THAN 10"x10"
3. SEE OTHER DETAILS FOR REINF AT OPENINGS IN CONCRETE WALLS, CONCRETE STRUCTURAL SLABS, AND METAL DECK SLABS

8 3/8" = 1'-0" TYP TRIM REINF

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

BARKER RINKER SEACAT ARCHITECTURE
brsarch.com

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

TYPICAL CONCRETE DETAILS

S303

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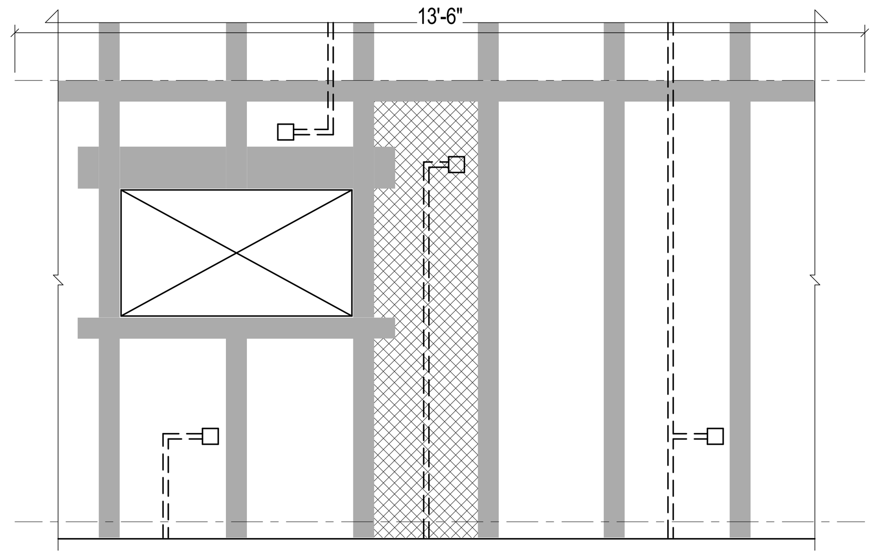
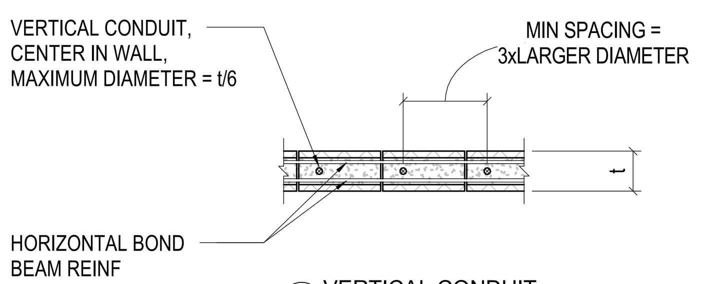
File Location: T:\Projects\2023\23030_Chico Aquatic and Recreation Facility\23030_WORKING\AUTOCAD\SHEETS\GN002 OVERALL PLAN / SAVE DATE: 3/5/2024 4:18 PM BY: jhecandido / PLOT DATE: 1/20/2023 2:45 PM BY: Jin He-Candido
1/22/2025 9:39:05 AM Autodesk Docs://Chico CA Aquatics Center/23.1228.S.01-CHICO AQUATICS CENTER-S24_.rvt

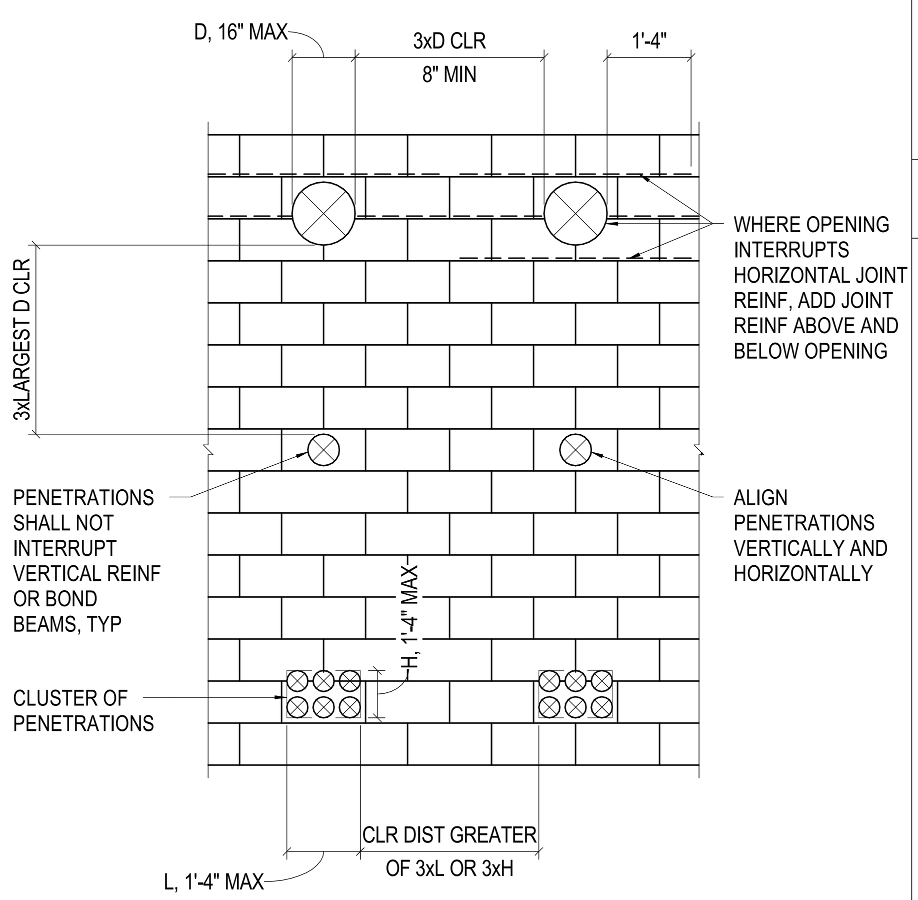
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAGE SIZE
plot to .pdf in color for paper plots, use black & white whenever possible to save printing costs
THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, IF PRINTED CORRECTLY



NOTES:
1. JUNCTION BOXES, PIPING, VERTICAL / HORIZONTAL CONDUIT, FIXTURES, ETC. SHALL NOT:
   - BE LOCATED IN REINFORCED CELLS
   - BE LOCATED IN LINTELS (NEITHER IN REINFORCED NOR UNREINFORCED CELLS)
   - BE LOCATED IN JAMBS
   - BE LOCATED IN STRUCTURAL PILASTERS, UNLESS NOTED OTHERWISE
2. JUNCTION BOXES, PIPING, VERTICAL / HORIZONTAL CONDUIT, FIXTURES, ETC. MAY:
   - BE LOCATED IN GROUTED UNREINFORCED CELLS (EXCLUDING LINTELS)
   - BE LOCATED IN UNREINFORCED, UNGROUTED CELLS
3. HORIZONTAL PIPING / CONDUIT SHALL NOT CROSS VERTICALLY REINFORCED CELLS
4. VERTICAL PIPING / CONDUIT MAY CROSS REINFORCED BOND BEAMS LIMITED BY DETAIL A
5. WALL PENETRATIONS SHALL MEET THE REQUIREMENTS OF DETAIL B
6. INDICATES REINFORCED AND GROUTED CELLS
7. INDICATES GROUTED CELLS WITHOUT REINFORCING
8. ALUMINUM SHALL NOT BE EMBEDDED IN MASONRY



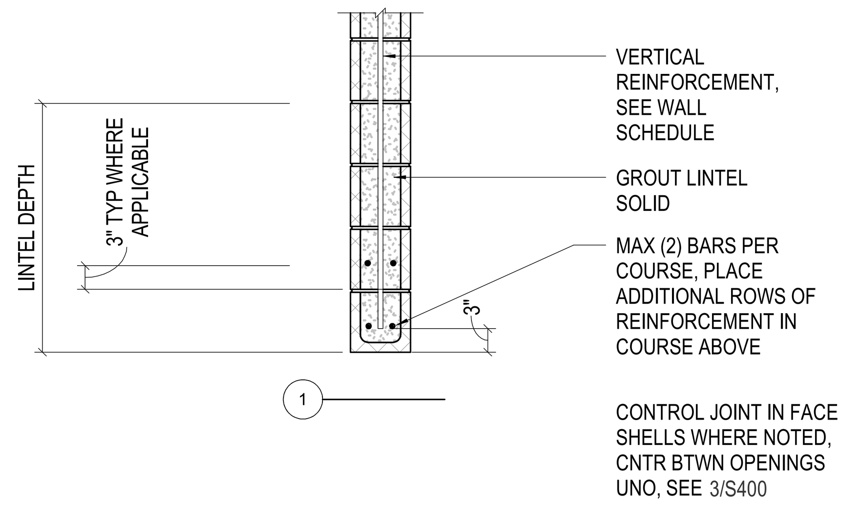
A VERTICAL CONDUIT

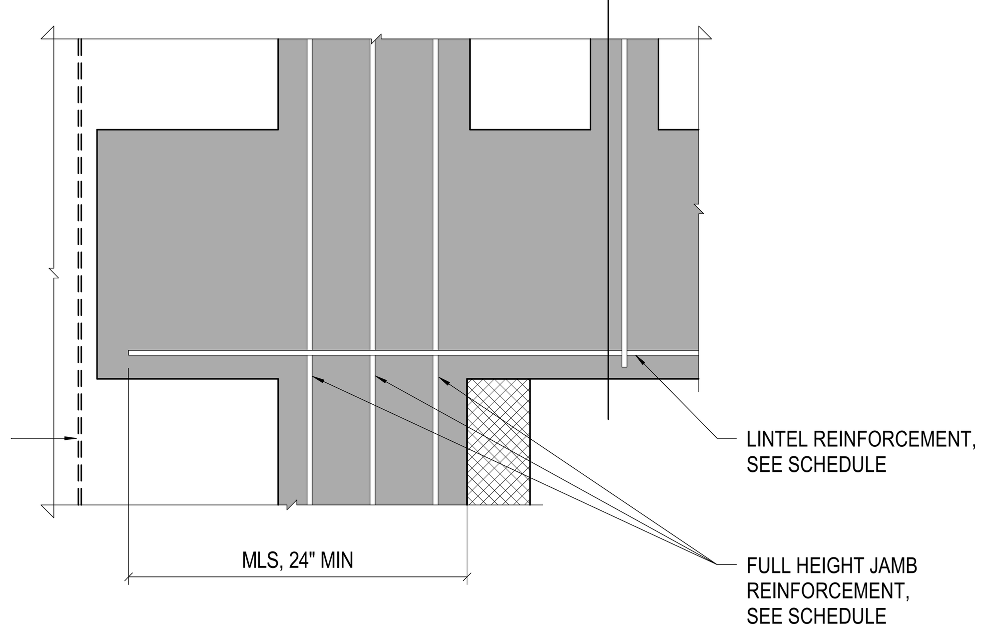


AT PIPING/PENETRATIONS THROUGH WALL

B WALL PENETRATIONS

19 NO SCALE MASONRY CONDUIT/PIPING PENETRATIONS





MASONRY LINTEL
LINTEL DEPTH
TYPE
ML-32A

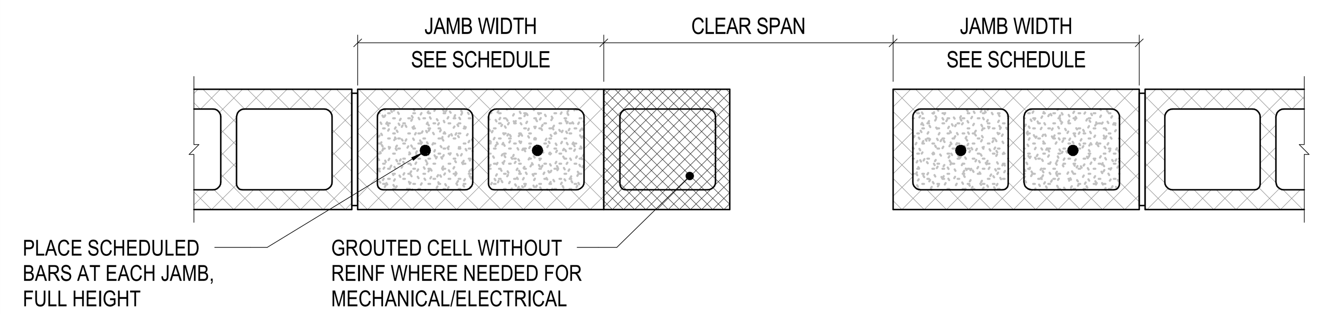
MASONRY LINTEL SCHEDULE		
MARK	NOMINAL DEPTH (in)	REINF
ML-8A	8	(2) #4
ML-16A	16	(2) #5
ML-24A	24	(2) #5
ML-24B	24	(4) #5

MASONRY LINTEL SPAN TABLE	
CLEAR SPAN, L	LINTEL
L ≤ 4'-0"	ML-8A
4'-0" < L ≤8'-0"	ML-16A
8'-0" < L ≤14'-0"	ML-24A
14'-0" < L ≤ 15'-0"	ML-24B

NOTES:
1. MASONRY LINTELS PER SCHEDULE, UNLESS NOTED OTHERWISE ON PLAN

A MASONRY LINTEL DETAILS

NOTES:
1. TYPICAL WALL VERTICAL & HORIZONTAL REINFORCEMENT NOT SHOWN



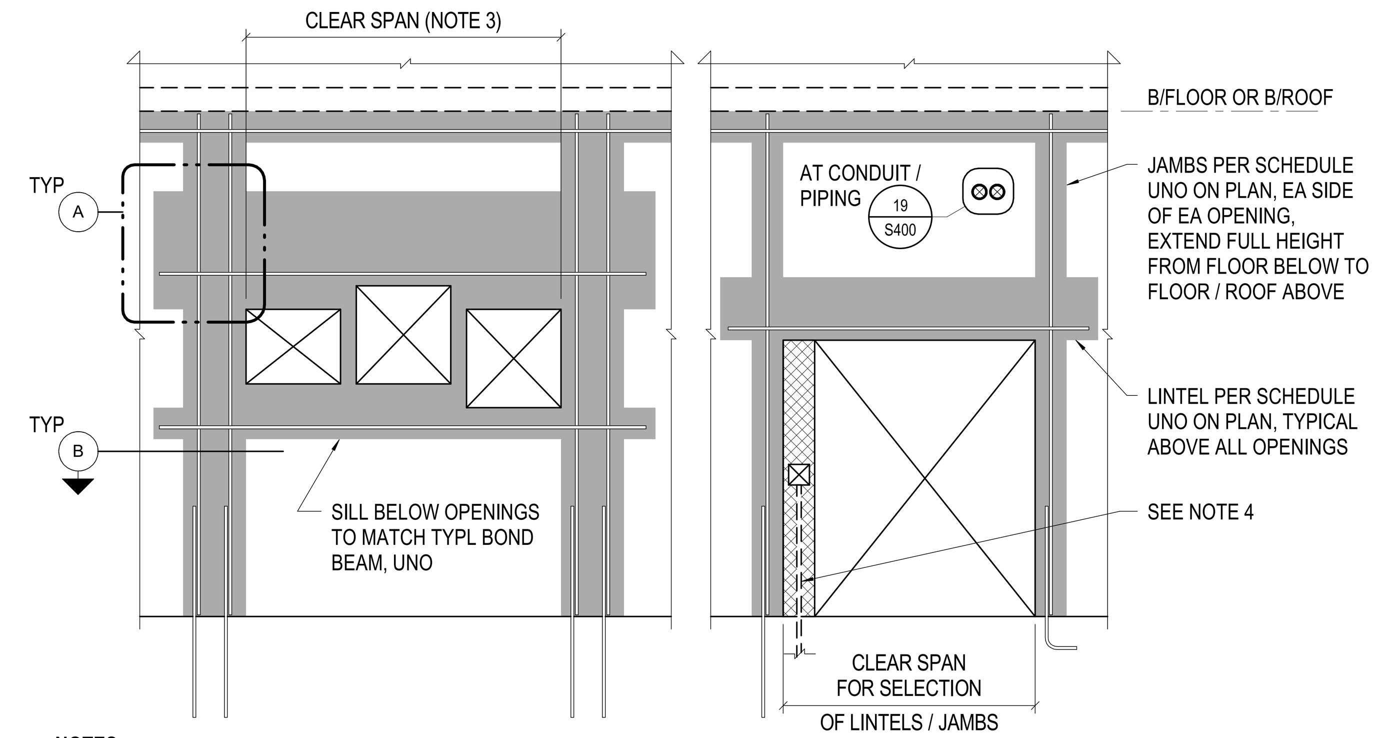
MASONRY WALL JAMB SCHEDULE		
MARK	REINF FULL HT WALL	JAMB WIDTH
MJ-16 (1)	(2) #5	16"
MJ-24A (1)	(3) #5	24"
MJ-24B (1)	(3) #6	24"

MASONRY JAMB SPAN TABLE	
CLEAR SPAN, L	JAMB
L ≤ 8'-0"	MJ-16
8'-0" ≤ L ≤ 14'-0"	MJ-24A
14'-0" ≤ L ≤ 15'-0"	MJ-24B

NOTES:
1. MASONRY JAMBS PER SCHEDULE, UNLESS NOTED OTHERWISE ON PLAN

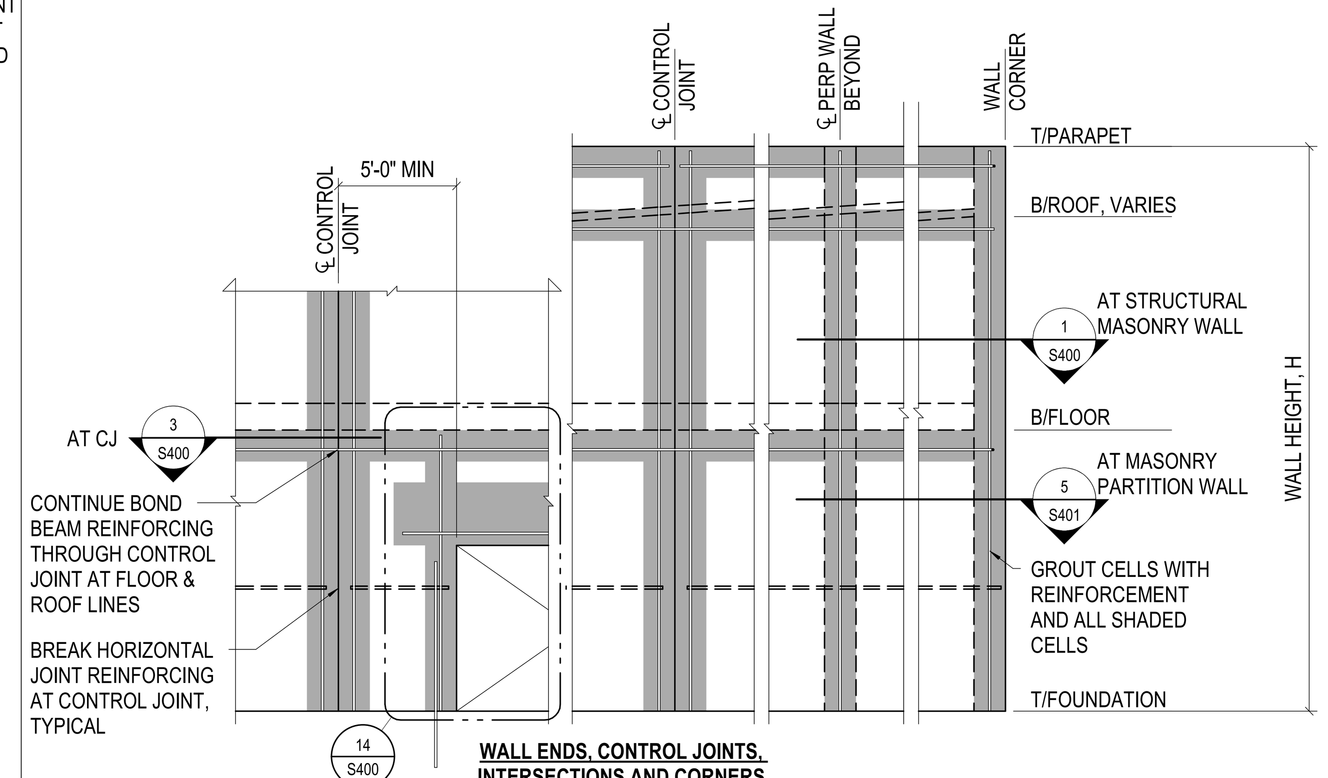
MASONRY JAMB
JAMB
(1) CENTERED
(2) EACH FACE
MJ-16(1)

B MASONRY JAMB DETAILS

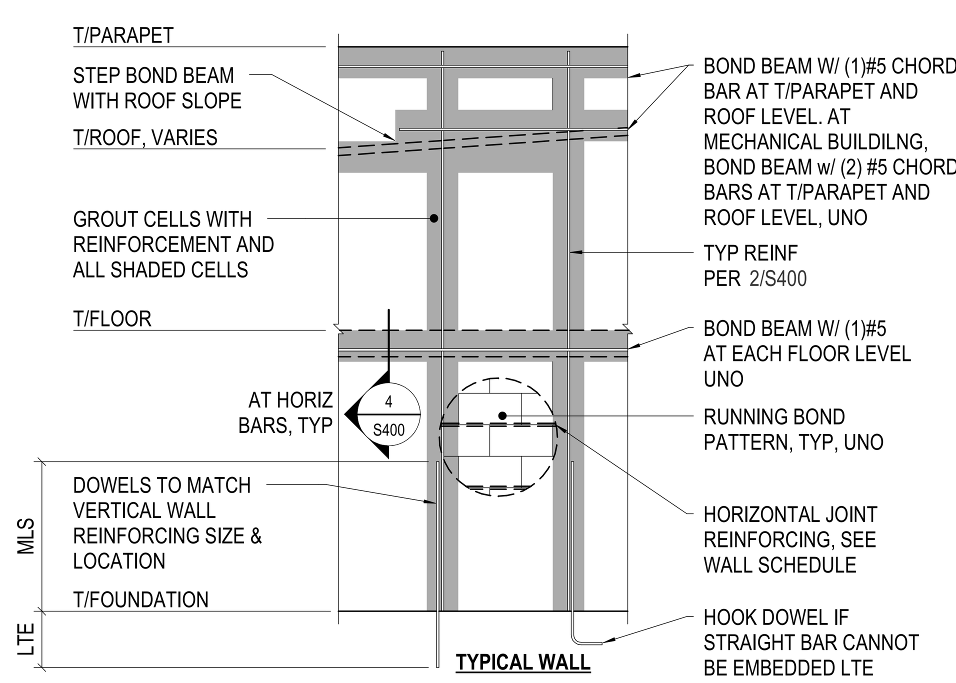


NOTES:
1. INDICATES REINFORCED AND GROUTED CELLS
2. INDICATES GROUTED CELLS WITHOUT REINFORCING
3. LINTEL ABOVE A SERIES OF OPENINGS SHALL SPAN FULL WIDTH OF ALL OPENINGS WHERE SPACE BETWEEN OPENINGS DOES NOT ALLOW SUFFICIENT WIDTH FOR EACH JAMB EACH SIDE OF EACH OPENING
   A. WHERE POSSIBLE ALIGN TOP OF OPENINGS TO ALLOW FOR CONTINUOUS LINTELS
   B. WHERE TOP OF OPENINGS CAN NOT ALIGN, LINTEL ABOVE HIGHEST OPENING SHALL SPAN FULL WIDTH OF ALL OPENINGS
4. AT LOCATIONS WHERE BOXES / CONDUITS MUST BE LOCATED DIRECTLY ADJACENT A ROUGH OPENING, PROVIDE GROUTED UNREINFORCED CELL(S) FOR BOXES / CONDUITS, INCREASE CLEAR SPAN FOR SELECTION OF LINTELS / JAMBS BY WIDTH OF ADDITIONAL CELL(S)

14 NO SCALE MASONRY - LARGE WALL OPENING



WALL ENDS, CONTROL JOINTS, INTERSECTIONS AND CORNERS



TYPICAL WALL

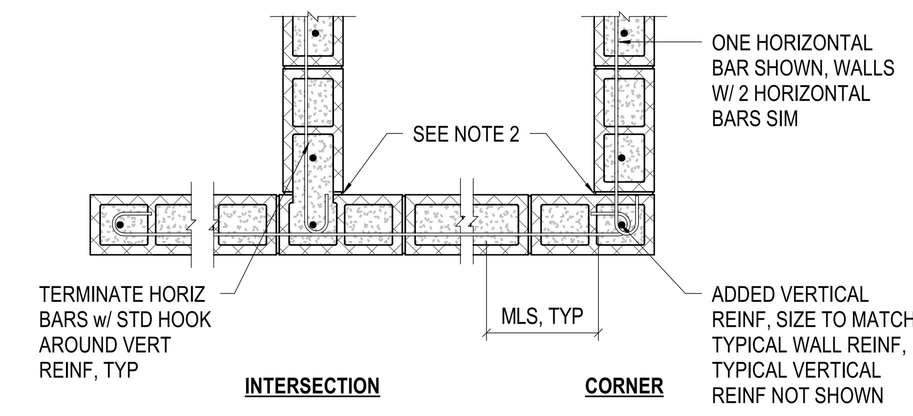
NOTES:
1. SEE 8/S400 FOR MASONRY LAP SPLICE & DEVELOPMENT LENGTH
2. INDICATES GROUTED CELLS
3. GROUT SHOWN IS MINIMUM REQUIRED, SEE MASONRY WALL SCHEDULE 2/S400 FOR ADDITIONAL GROUTING REQUIREMENTS
4. SEE PLAN FOR CONTROL JOINT LOCATIONS
5. IF CONTROL JOINTS ARE NOT SHOWN, REQUEST LOCATIONS FROM ARCHITECT AND BASE BIDS ON THE FOLLOWING MINIMUM CONTROL JOINT LOCATIONS:
   A. SPACED AT A MAXIMUM OF 1.5xH
   B. SPACED AT A MAXIMUM OF 24'-0" OC
   C. ONE CONTROL JOINT WITHIN 1/2 JOINT SPACING OF EACH WALL CORNER / INTERSECTION
   D. NOT CLOSER THAN 5'-0" FROM ROUGH OPENINGS
   E. NOT CLOSER THAN 2'-0" FROM BEAM / JOIST BEARING CENTERLINES
   F. NOT CLOSER THAN 8" FROM STEEL EMBED CENTERLINES
6. PROVIDE 135° CLOSED HOOK AT ALL WALL ENDS PER SPECIAL MASONRY SHEAR WALLS

15 3/8" = 1'-0" TYPICAL STRUCTURAL MASONRY WALL ELEVATIONS

MASONRY LAP SPLICE SCHEDULE f'm = 2000 psi				
BAR SIZE		REINF CENTERED 8", 10", 12" MAS	REINF CENTERED 6" MAS	REINF AT FACE AND AT BOND BEAMS 2" CLR
ENGLISH	METRIC			
#3	#10	15		15
#4	#13	20		22
#5	#16	25		35
#6	#19	38 (NOTE 8)		54 (NOTE 8)
#7	#22	52 (NOTE 8)		63 (NOTE 8)
#8	#25	72 (NOTE 9)		72 (NOTE 9)
#9	#29	81 (NOTE 9)		81 (NOTE 9)

NOTES:
1. SMALLER BAR LAP LENGTH SHALL BE USED WHEN SPLICING DIFFERENT SIZED BARS
2. LAP LENGTHS SPECIFICALLY DETAILED ON DRAWINGS SHALL GOVERN INSTEAD OF SCHEDULED LAP LENGTHS
3. IF REINFORCING IS SPECIFIED AS EPOXY COATED, INCREASE LENGTHS BY 50%
4. MECHANICAL COUPLERS MAY BE USED IN LIEU OF ANY LAP LENGTH SHOWN
5. WHEN LOW LIFT GROUTING IS USED, AND THE LAP LENGTH EXCEEDS THE GROUT LIFT HEIGHT (NOTED BY *), A MECHANICAL COUPLER IS REQUIRED IN LIEU OF LAPPED REINF.
6. VERTICAL REINF IN PILASTERS WITH AT LEAST 3 1/2" CLEAR SHALL BE SPLICED PER THE "REINF CENTERED" COLUMN
7. HORIZONTAL BOND BEAM REINF SHALL BE SPLICED PER THE "REINF AT FACE" COLUMN
8. REINF IN THESE SIZES SHALL NOT BE USED IN 6" MASONRY
9. REINF IN THESE SIZES SHALL NOT BE USED IN 6", 8", OR 10" MASONRY

8 NO SCALE MASONRY STRENGTH DESIGN LAP SPLICE SCHEDULE - 2000



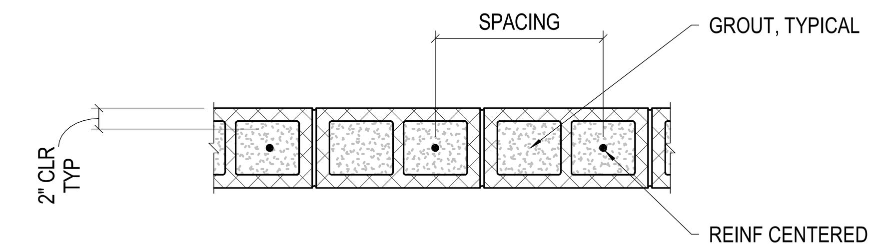
NOTES:
1. 90 DEG CORNER AND INTERSECTION IS SHOWN. WALLS MEETING AT OTHER ANGLES SHALL HAVE (a) BLOCK OVERLAPPING 4" MIN AT ALL HEAD JOINTS OR (b) FACE SHELL BROKEN OPEN AND COMMON CORE GROUTED
2. IF HEAD JOINT ALIGNS OVER THE FULL WALL HEIGHT, BREAK OPEN FACE SHELLS AND GROUT WALLS TOGETHER FULL HEIGHT, TYP AT ALL CORNERS AND INTERSECTIONS

INTEGRALLY CONNECTED AT CORNERS & INTERSECTIONS OF MASONRY WALLS

1 3/4" = 1'-0" INTEGRALLY CONSTRUCTED STRUCTURAL MASONRY CORNER

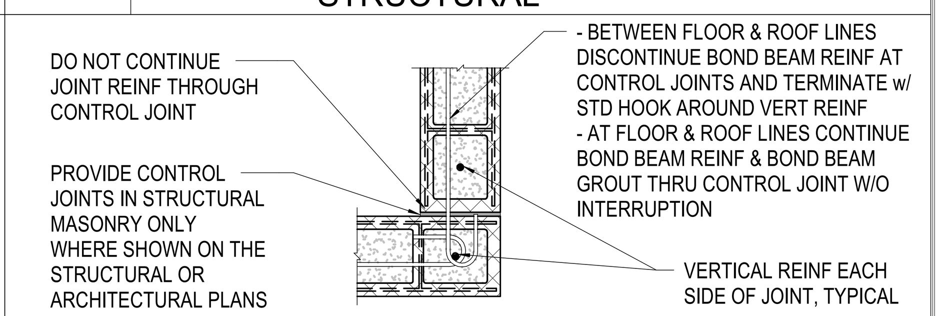
STRUCTURAL MASONRY WALL SCHEDULE						
MARK	WALL THK	REINFORCING				GROUT SOLID
		JOINT	VERT	HORIZ	DOWELS	
MW8A (1)	8"	NOTE 2	#5@32"	#5@32"	#5@32"	YES
MW8B (1)	8"	NOTE 2	#5@16"	#5@16"	#5@16"	YES

CMU THICKNESS
MASONRY WALL
REINF SPACING
(1) CENTERED
MW8-48(1)

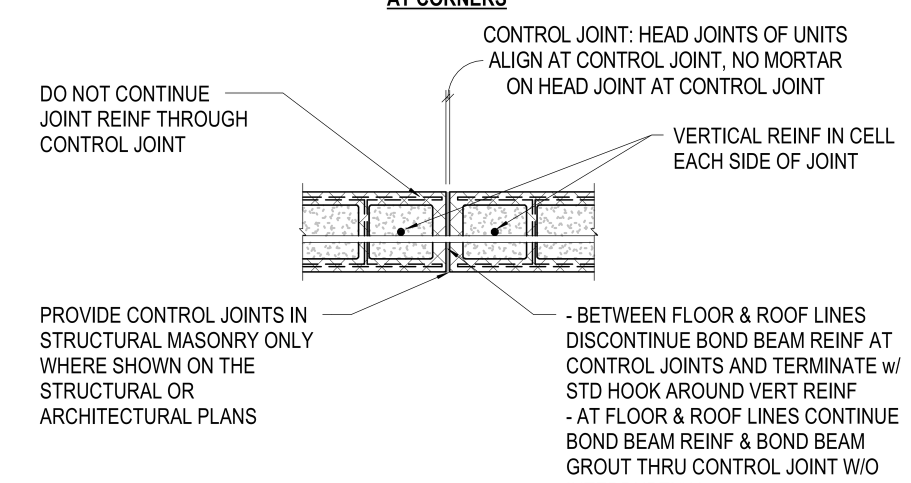


NOTES:
1. ALL VERTICAL REINFORCEMENT SHALL BE CENTERED (UNO) IN GROUTED CELLS
2. PROVIDE `LADDER' TYPE HORIZONTAL JOINT REINFORCEMENT WITH 2-W1.7 (9 GA) WIRES (MIN) AT 16" OC, TYPICAL, AND AT 8" OC IN PARAPETS
3. REFERENCE SPECIAL JAMB REINFORCEMENT NOTED IN "MASONRY - LARGE WALL OPENING"
4. ONLY STRUCTURAL WALLS ARE INCLUDED IN STRUCTURAL DRAWINGS. SEE ARCH FOR CMU PARTITIONS

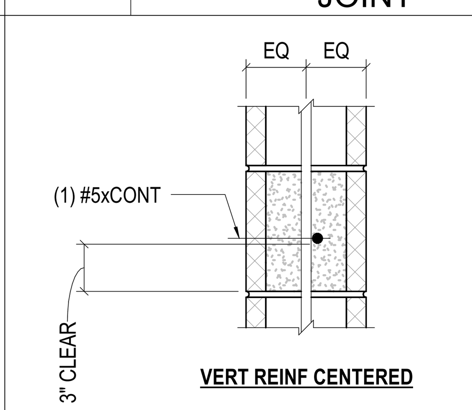
2 1" = 1'-0" MASONRY WALL SCHEDULE - STRUCTURAL



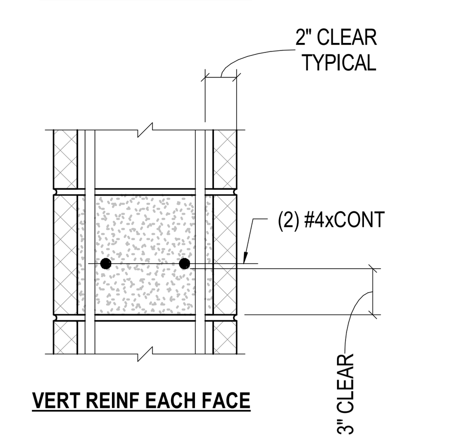
AT CORNERS



3 1" = 1'-0" TYPICAL MASONRY WALL CONTROL JOINT



VERT REINF CENTERED



VERT REINF EACH FACE

4 1 1/2" = 1'-0" TYP BOND BEAM

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

TYPICAL MASONRY DETAILS

S400

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plot to .pdf = color
to paper size, use scale
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5 3/4" = 1'-0" MASONRY WALL INTERSECTION - PARTITION TO STRUCTURAL WALL

NOTES:
1. ANCHOR INSTALLATION IS ALLOWED IN ALL NON-SHADED AREAS

1 1 1/2" = 1'-0" INSTALLATION OF ANCHORS IN GROUT-FILLED CMU

6 3/4" = 1'-0" PARTITION TO PARTITION WALL DETAIL

TYPICAL EMBED BOLT IN MASONRY

BOLT	EMBEDMENT	MIN SPACING	MIN EDGE DISTANCE
1/2"Ø	4"	8"	4"
5/8"Ø	4"	8"	4"
3/4"Ø	5"	10"	5"
7/8"Ø	6"	12"	6"

NOTES:
1. PROVIDE 3/4"Ø ANCHOR BOLTS UNO
2. SEE 1/S401 FOR ACCEPTABLE ANCHOR LOCATIONS

2 1 1/2" = 1'-0" TYP EMBED BOLT IN MAS SCHEDULE

KEYNOTES:
1. TYPICAL WALL VERTICAL REINFORCING: #4@48" OC
2. BOND BEAM W/ (1) #5 AT T/WALL
3. BOND BEAM W/ (1) #5 AT BOT OF ALL OPENINGS
4. HORIZ JOINT REINF: "LADDER" TYPE JOINT REINF W/ (2) W1.7 WIRES @ 16" OC
5. LINTEL, SEE 14/S400
6. CONTROL JOINTS @ 20'-0" OC MAX AND EACH END OF WALL
7. JAMB REINFORCEMENT EACH SIDE OF OPENING, SEE 14/S400
8. #4 DOWELS TO MATCH SPACING OF VERTICAL BARS, CENTERED IN THE WALL
9. TERMINATE ALL HORIZONTAL REINFORCEMENT AT CONTROL JOINTS
10. T/WALL SUPPORT, SEE DETAILS ON THIS SHEET AND S603, SPACE AS FOLLOWS:
    1. TWO (2) SUPPORTS MINIMUM BETWEEN CONTROL JOINTS.
    2. LOCATE T/WALL SUPPORTS NO FURTHER THAN 5 FT FROM EACH SIDE OF EACH CONTROL JOINT.
    3. INTEGRALLY CONSTRUCTED RETURN WALLS (CORNERS OR INTERSECTIONS) WITH A PLAN DIMENSION OF AT LEAST THE WALL HEIGHT / 3 (H/3) QUALIFY AS A SUPPORT.
    4. AS REQUIRED PER PARTITION WALL BRACING DETAILS.
11. AT SERIES OF TWO OR MORE OPENINGS, MASONRY LINTEL REINFORCEMENT SHALL BE CONTINUOUS. IF SPACE BETWEEN OPENINGS IS LESS THAN 1'-4", USE OVERALL WIDTH OF SERIES OF OPENINGS TO DETERMINE LINTEL SIZE AND JAMB REINF
12. WHERE EDGE OF OPENING IS FLUSH WITH PERPENDICULAR WALL, OR REQUIRED JAMB SIZE IS LARGER THAN AVAILABLE, A CONTROL JOINT IS NOT PERMITTED AT THIS INTERSECTION

11 1/4" = 1'-0" TYPICAL MASONRY PARTITION ELEVATION

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CHICO AQUATIC AND RECREATION FACILITY
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TYPICAL MASONRY DETAILS

S401

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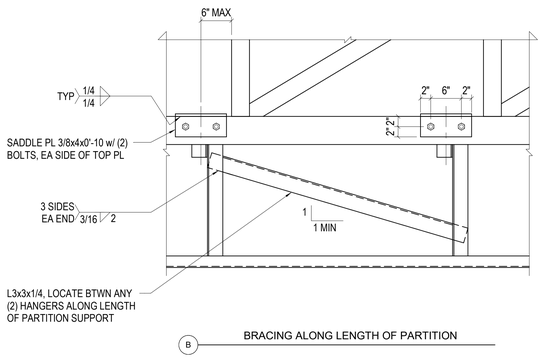
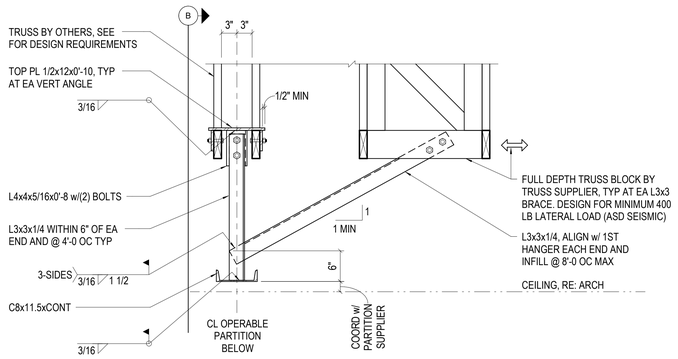
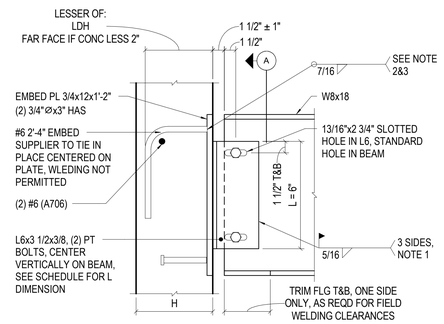
for scale, see graphic scale



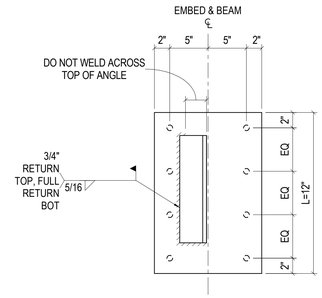
B BRACING ALONG LENGTH OF PARTITION



17 1" = 1'-0" OPERABLE PARTITION SUPPORTED BY WOOD TRUSSES



BEAM ELEVATION

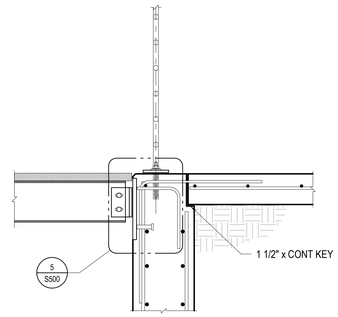


A **EMBED ELEVATION**

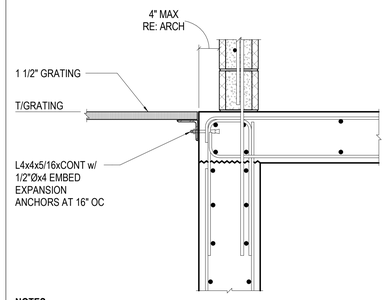
NOTES:
1. COMPLETE ALL WELDS PRIOR TO INSTALLING DECK OR USING BEAM TO SUPPORT ANY CONSTRUCTION MATERIALS
2. ALL WELDED REBAR SHALL BE A706
3. USE E80 ELECTRODES

5 NO SCALE TYPICAL BEAM EMBED PL CONNECTION AT GRATING

NOTES:
1. SEE 15/S301 FOR ADDITIONAL INFORMATION
2. BETWEEN BEAMS, SUPPORT GRATING PER 2/S500

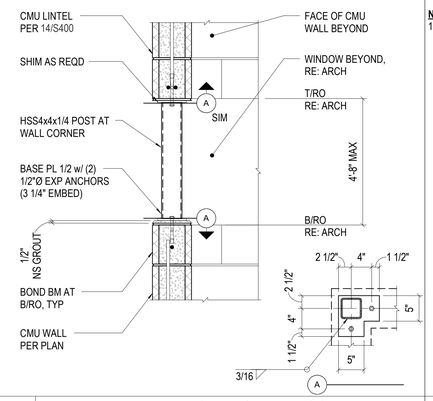


6 1" = 1'-0" GRATING PLATFORM TO INTERIOR PIT WALL



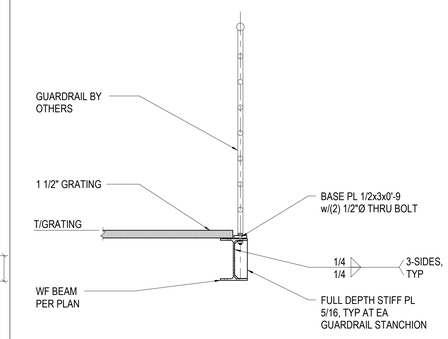
NOTES:
1. SEE 2/S302 FOR ADDITIONAL INFORMATION

2 1" = 1'-0" EMBED PL CONNECTION AT SURGE TANK WALL



7 NO SCALE HEADER SUPPORT AT CORNER WINDOW

NOTES:
1. RE: ARCH FOR GUARDRAIL GEOMETRY AND CONFIGURATION



3 1" = 1'-0" GUARDRAIL CONNECTION AT GRATING

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CHICO AREA RECREATION & PARK DISTRICT

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STEEL DETAILS

S500

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IF THE LINE BROWN ABOVE IS NOT EXACTLY ONE INCH, ONLY A PRINT IS NOT TO SCALE

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to paper size, use Adobe
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WOOD HORIZONTAL SHEATHING SCHEDULE - 10d NAILS

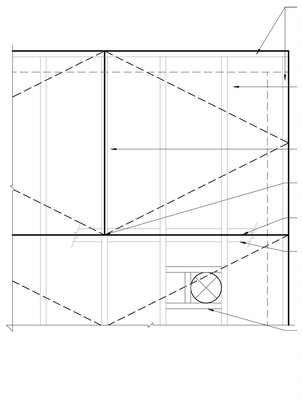
MARK	SHEATHING MATERIAL	BLOCKED EDGES	NAILING REQUIREMENTS		ALLOWABLE CAPACITY #/FT	
			FIELD NAILING	EDGE NAILING	VW/OMEGA	VS/OMEGA
HS1	19/32" SHEATHING	NO	10d @ 12" OC	10d @ 6" OC	300plf	215plf
HS2	19/32" SHEATHING	YES	10d @ 12" OC	10d @ 2 1/2" OC	895plf	640plf

SCHEDULE NOTES:

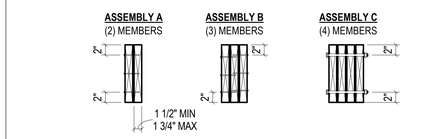
1. NAILS: 10d COMMON NAILS (0.148"Ø) WITH 1 1/2" MINIMUM PENETRATION INTO FRAMING MEMBERS

DETAIL NOTES:

1. LAYOUT SHEATHING SUCH THAT:
   A. LONG DIMENSION OF SHEATHING IS PERPENDICULAR TO SUPPORTING FRAMING (TRUSSES / RAFTERS / JOISTS)
   B. SHEATHING JOINTS ARE STAGGERED EACH PANEL
2. MINIMUM EDGE DISTANCE FOR NAILS SHALL BE 3/8"
3. PROVIDE EDGE NAILING INTO ALL SUPPORTING BEAMS, WALLS, JOIST BLOCKING, AND RIM BOARDS UNO
4. SHEATHING TO BE APA-RATED SHEATHING. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION



9 3/4" = 1'-0" WOOD FLOOR / ROOF / HORIZONTAL SHEATHING CONSTRUCTION



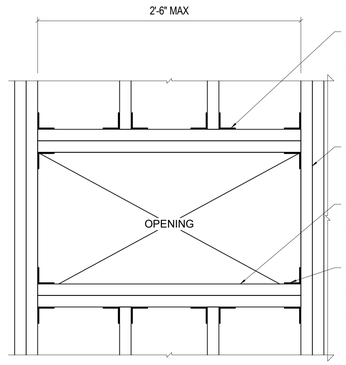
MAXIMUM UNIFORM LOAD APPLIED TO OUTSIDE BEAM (PLF) - 2x

TYPE	CONNECTION	ASSEMBLY (A)	ASSEMBLY (B)	ASSEMBLY (C)
1	(2) ROWS 10d COMMON WIRE @ 12" OC	370 PLF	280 PLF	-
2	(3) ROWS 10d COMMON WIRE @ 12" OC	555 PLF	415 PLF	-
3	(2) ROWS 1/2" BOLTS @ 24" OC	505 PLF	380 PLF	340 PLF
4	(2) ROWS 1/2" BOLTS @ 12" OC	1010 PLF	760 PLF	680 PLF

NOTES:

1. AT BOLTED CONNECTIONS, BOLTS ARE ASTM A307 WITH Fy = 36 KSI TYPICAL, USE WASHERS AT BOLT HEAD AND NUT
2. AT NAILED CONNECTIONS, USE (2) ROWS OF NAILS FOR BEAMS WITH DEPTH < 12" NOMINAL

1 1" = 1'-0" MULTIPLE MEMBER CONN - 2x



6 1 1/2" = 1'-0" TYP WOOD FLOOR OPENING

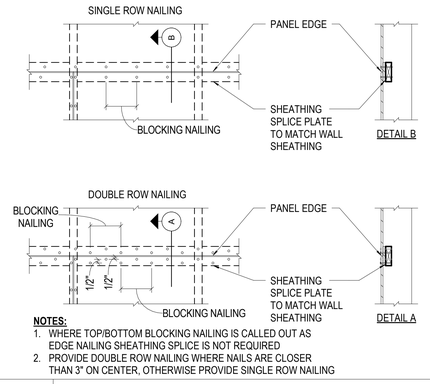
WOOD HANGER SCHEDULE

JOIST / BEAM	FACE MOUNT HANGER			TOP FLANGE HANGER		
	TYPE	DOWN CAPACITY (LBS)	UPLIFT CAPACITY (LBS)	TYPE	DOWN CAPACITY (LBS)	UPLIFT CAPACITY (LBS)
22" TJI-560	-	-	-	BA3.56/22	3230	970
2x8	LUS26	1060	1165	PF28B	1200	545
2x10	LUS28	1350	1165	JB210A	1445	260
2x12	LUS210	1640	1165	JB212A	1445	260
2x12	LRU210Z	1805	1510	BA212	3230	970

NOTES:

1. ALL HANGERS SHALL BE MANUFACTURED BY SIMPSON STRONG TIE, INC.

2 NO SCALE TYPICAL WOOD HANGER SCHEDULE



NOTES:

1. WHERE TOP/BOTTOM BLOCKING NAILING IS CALLED OUT AS EDGE NAILING SHEATHING SPLICE IS NOT REQUIRED
2. PROVIDE DOUBLE ROW NAILING WHERE NAILS ARE CLOSER THAN 3" ON CENTER, OTHERWISE PROVIDE SINGLE ROW NAILING

3 1 1/2" = 1'-0" BLOCKING DETAIL

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TYPICAL WOOD FRAMING DETAILS

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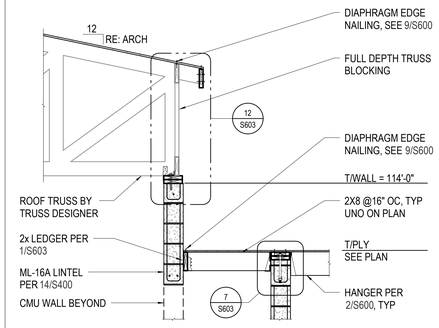
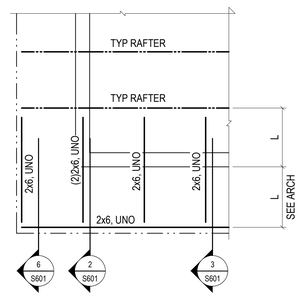
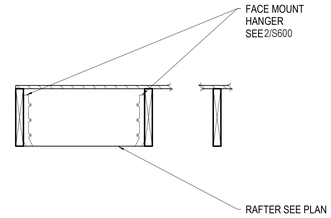


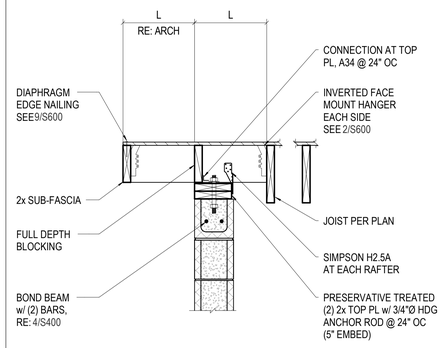
5 1/2" = 1'-0" SECTION AT FACILITIES BUILDING INTERIOR BEARING WALLS



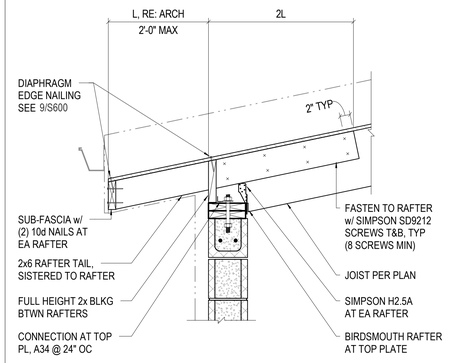
1 1/2" = 1'-0" TYP 2x LADDER FRAMING (PLAN)



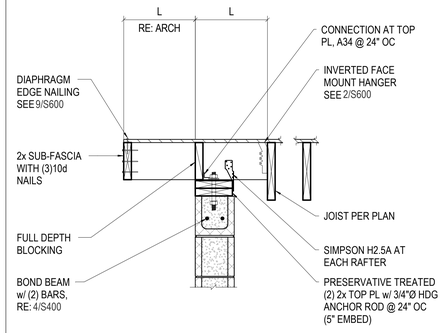
6 1" = 1'-0" TYP 2x LADDER RAFTER AT FASCIA OVERHANG



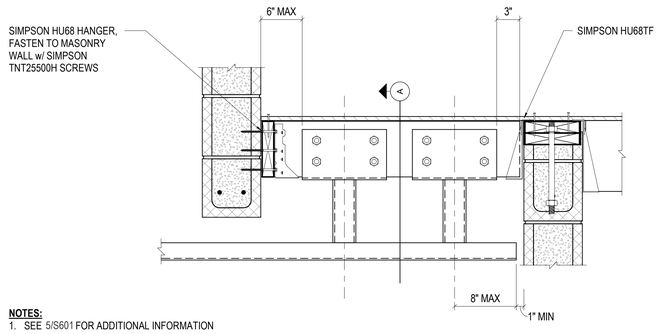
2 1" = 1'-0" 2x LADDER FRAMING DETAIL AT CORNER



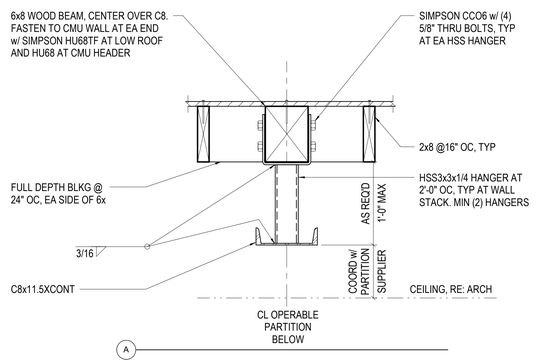
7 1" = 1'-0" BIRDSMOUTH RAFTER AT EAVE



3 1" = 1'-0" TYPICAL 2x LADDER FRAMING



NOTES:
1. SEE 5/S601 FOR ADDITIONAL INFORMATION



16 1 1/2" = 1'-0" OPERABLE PARTITION SUPPORT AT LOW ROOF

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WOOD FRAMING DETAILS

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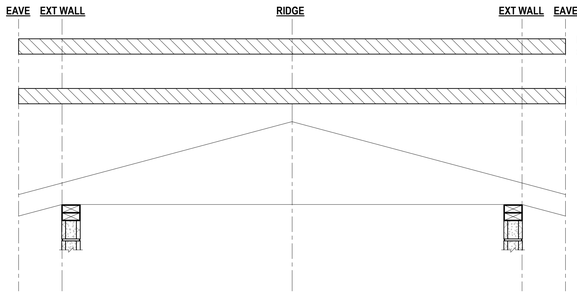
IF THIS LINE IS NOT 1" LONG IT IS NOT A FULL SIZE DRAWING. ADJUST SCALES ACCORDINGLY

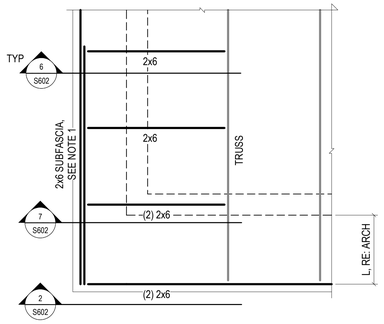
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE PLOTTING



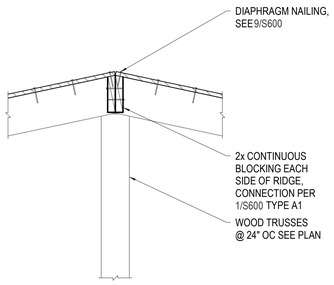
NOTES:
1. SEE 3/S602 FOR TRUSS TYPES AND SCHEMATIC CONFIGURATIONS
2. SEE PLANS FOR ADDITIONAL LOADING REQUIREMENTS AT OPERABLE PARTITIONS, ETC
3. IN ADDITION TO LOADING INDICATED, DESIGN TRUSSES AND EAVES FOR COMPONENTS AND CLADDING WIND PRESSURES, SEE GENERAL NOTES FOR WIND DESIGN CRITERIA

13 1" = 1'-0" SIMPLE ROOF TRUSS LOADING DIAGRAM

NOTES:
1. WHERE EAVE LENGTH, L, IS GREATER THAN 3'-0", PROVIDE (2)2x6 SUB FASCIA FOR A MINIMUM 3 BAYS OF LADDER FRAMING

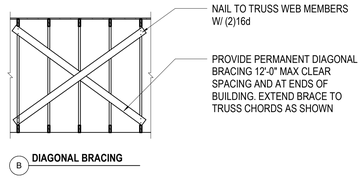


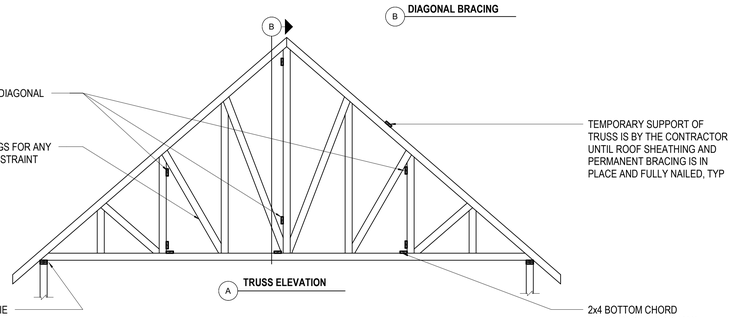
5 3/4" = 1'-0" TYP LADDER FRAMING WITH ROOF TRUSS (PLAN)

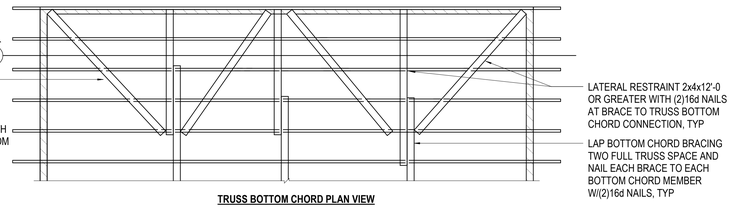


1 1" = 1'-0" TRUSS RIDGE

NOTES:
1. ALL BRACING SHOWN IS MINIMUM REQUIRED FOR FINAL IN PLACE CONDITION. ADDITIONAL BRACING (FINAL PERMANENT BRACING AND TEMPORARY ERECTION BRACING) SHALL BE DESIGN BY THE TRUSS MANUFACTURER AND PROVIDED BY THE CONTRACTOR







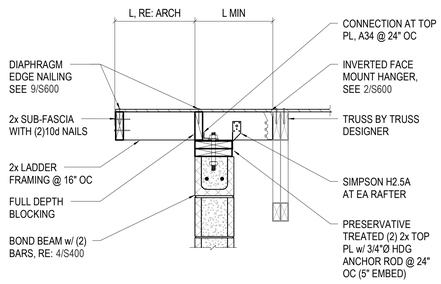
TRUSS BOTTOM CHORD PLAN VIEW

TYPICAL PRE-ENGINEERED WOOD ROOF TRUSS NOTES

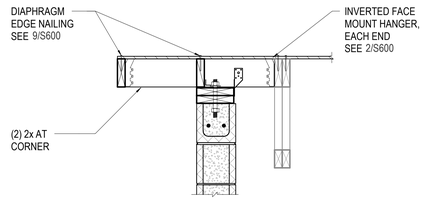
1. METAL PLATE CONNECTED WOOD TRUSSES ARE SHOWN OR CALLED OUT ON THE DRAWINGS AS EITHER PRE-ENGINEERED OR PRE-MANUFACTURED TRUSSES. DESIGN PRE-ENGINEERED WOOD TRUSS MEMBERS AND CONNECTIONS FOR EACH OF THE LOAD COMBINATIONS IN THE CALIFORNIA BUILDING CODE (CBC). TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE 2022 CALIFORNIA BUILDING CODE, ALONG WITH THE RECOMMENDATIONS OF THE WOOD TRUSS COUNCIL OF AMERICA (WTCA) AND THE TRUSS PLATE INSTITUTE (TPI). REFER TO THE SPECIFICATIONS FOR ADDITIONAL TRUSS DESIGN CRITERIA NOT SHOWN ON THE DRAWINGS.
2. WEB MEMBER CONFIGURATIONS SHOWN ON LOADING DIAGRAMS AND DETAILS ARE FOR ILLUSTRATION PURPOSES ONLY. ACTUAL WEB MEMBER CONFIGURATIONS SHALL BE ESTABLISHED BY THE CONTRACTOR.
3. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR DUCT LAYOUT. THE CONTRACTOR SHALL CONFIGURE TRUSS WEBS TO AVOID DUCT WORK, ACCESS PLATFORMS AND EQUIPMENT AND NOTE ALL DUCT SIZES AND AREAS OF POTENTIAL CONFLICT ON SHOP AND ERECTION DRAWING SUBMITTALS.
4. TOP AND BOTTOM CHORD CONFIGURATIONS SHOWN ON LOADING DIAGRAMS ARE FOR ILLUSTRATION PURPOSES ONLY. REFER TO PLANS AND ARCHITECTURAL DRAWINGS FOR TOP CHORD SLOPE.
5. TEMPORARY AND PERMANENT TRUSS BRACING IS REQUIRED. TRUSS DESIGNER TO DESIGN AND DETAIL THE BRACING TO RESOLVE THE BRACING FORCES. SUBMIT SHOP DRAWINGS SHOWING BRACING LOCATIONS, MATERIALS AND CONNECTIONS. SEE GENERAL NOTES, PLAN SHEETS, AND DETAILS ON THIS SHEET.
6. TRUSSES ARE TO BE DESIGNED FOR THE LOAD COMBINATIONS IN THE CBC.
7. LOAD DURATION FACTORS FOR WIND AND SEISMIC ARE 1.6.
8. MAXIMUM VERTICAL TRUSS DEFLECTION SHALL BE LIMITED TO THE SPAN/360 FOR ROOF LIVE LOAD.
9. MAXIMUM VERTICAL TRUSS DEFLECTION SHALL BE LIMITED TO THE SPAN/240 (INCLUDING CREEP) FOR DEAD LOAD PLUS ROOF LIVE LOAD.
10. MAXIMUM HORIZONTAL TRUSS DEFLECTION SHALL BE LIMITED TO 1/4 INCH EACH SIDE (INCLUDING CREEP) FOR DEAD LOAD PLUS LIVE LOAD.
11. ALL WEB (DIAGONAL AND VERTICAL) MEMBERS SHALL BE DESIGNED AS UNBRACED FOR THEIR FULL LENGTH BETWEEN CHORD MEMBERS. USE TEE ,'L', STACKED, OR METAL REINFORCEMENT.
12. UNDER NO CIRCUMSTANCES SHALL ANY MEMBER OF A TRUSS BE REMOVED AND/OR MODIFIED WITHOUT PRIOR WRITTEN APPROVAL FROM THE CONTRACTOR'S TRUSS MANUFACTURER AND THE ARCHITECT.
13. ALL BOLT HOLES (FOR TRUSS PLY TO PLY CONNECTIONS, CONNECTIONS TO EAVE OUTRIGGERS, ETC.) SHALL BE DRILLED. THE MINIMUM HOLE DIAMETER IS 1/32" LARGER THAN THE BOLT DIAMETER. THE MAXIMUM HOLE DIAMETER IS 1/16" LARGER THEN THE BOLT DIAMETER. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THESE HOLES WHEN DESIGNING THE TRUSS MEMBERS.
14. NOTCHING OF TRUSS MEMBERS IS NOT ALLOWED WITHOUT PRIOR WRITTEN APPROVAL FROM THE CONTRACTOR'S TRUSS MANUFACTURER AND THE ARCHITECT.
15. LAG BOLTS AND SCREWS FOR OTHER TRADES (SPRINKLERS, HUNG PIPING, HUNG MECHANICAL EQUIPMENT, ETC.) MAY BE USED IF INSTALLED INTO THE SIDE OF THE CHORD MEMBERS. LAG BOLTS AND SCREWS MAY NOT BE USED IN ANY WEB (DIAGONAL AND VERTICAL) MEMBERS. THE CONTRACTOR'S TRUSS MANUFACTURER SHALL PROVIDE A CRITERIA (INCLUDING MAXIMUM HOLE DIAMETER, MINIMUM HOLE SPACING FOR ADJACENT HOLES, LOCATION OF HOLES, ETC.) FOR THE LAG BOLTS AND SCREWS. THE LAG BOLTS AND SCREWS CANNOT BE PLACED WITHOUT PRIOR WRITTEN APPROVAL FROM THE CONTRACTOR'S TRUSS MANUFACTURER AND THE ARCHITECT.
16. DESIGN TRUSS CHORDS FOR POINT LOADS FROM PIPING AND OTHER SUPPORTED LOADS. CONTRACTOR TO ESTABLISH MAGNITUDE AND LOCATION OF POINT LOADS BY CONSULTING THE ARCHITECT.

16 NO SCALE PRE-ENGINEERED WOOD ROOF TRUSS NOTES

NOTES:
1. ANCHOR WALL TO ROOF DIAPHRAGM PER 12/S604

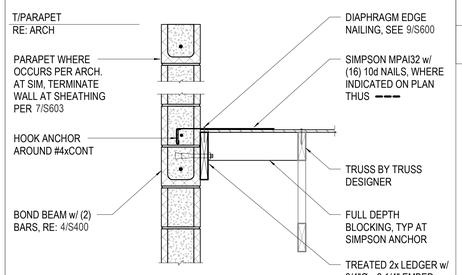


6 1" = 1'-0" TYP LADDER FRAMING WITH ROOF TRUSS

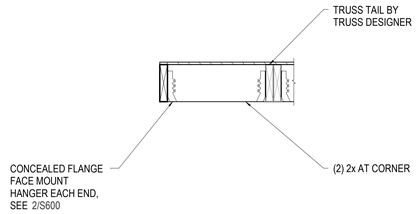


NOTES:
1. SEE 6/S602 FOR ADDITIONAL INFORMATION

7 1" = 1'-0" LADDER RAFTER AT WALL CORNER



8 1" = 1'-0" WALL ANCHOR AT ROOF TRUSS PERPENDICULAR



2 1" = 1'-0" LADDER RAFTER AT OVERHANG

TYPE	CONFIGURATION
A	
B	
C	
D	

NOTES:
1. CONFIGURATION SHOWN IN THE SCHEDULE IS A GENERAL SCHEMATIC. REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR GEOMETRIES AND DIMENSIONS

3 NO SCALE TRUSS TYPE SCHEDULE

BARKER RINKER SEACAT ARCHITECTURE
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LANDSCAPE ARCHITECT
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Beaver Dam, WI 53916
920.887.7375

ARCHITECT:
BRS ARCHITECTURE
990 S Broadway #222,
Denver, CO 80209
303.455.1366

CIVIL ENGINEER:
ROLLS ANDERSON & ROLLS
115 Yellowstone Dr,
Chico, CA 95973
530.895.1422

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

PRE-FABRICATED WOOD ROOF TRUSS DETAILS

S602

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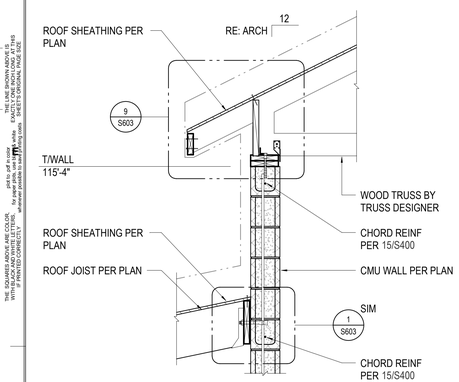
File Location: T:\Projects\2023\23030_Chico Aquatic and Recreation Facility\23030_WORKING\AUTOCAD\SHEETS\GN002 OVERALL PLAN / SAVE DATE: 3/6/2024 4:18 PM BY: jhesterdio / PLOT DATE: 1/20/2023 2:45 PM BY: Jin He-Cerdido
1/22/2025 9:39:10 AM Autodesk Docs://Chico CA Aquatics Center/23.1228.S.01-CHICO AQUATICS CENTER-S24_.rvt

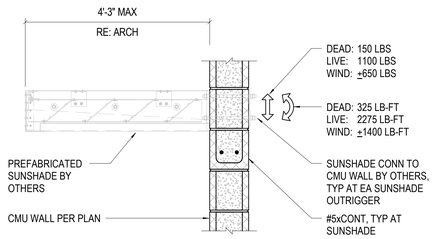
THE SQUARES ABOVE ARE COLOR, WITH EACH ONE WHITE LETTERS, IF PRINTED CORRECTLY

THE LINE BROWN ABOVE IS EXACTLY ONE INCH LONG, IF IT DOES NOT MEASURE ONE INCH, RESCALE PLOT

plot to .pdf in color
for paper size, use 24x36
www.autodesk.com/pdf

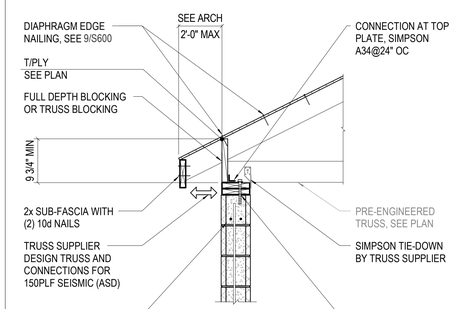


17 3/4" = 1'-0" BATH HOUSE LOW ROOF TO HIGH ROOF SECTION

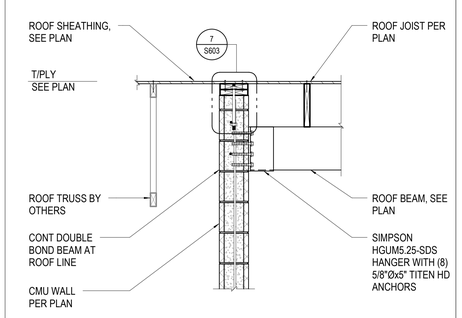


NOTES:
1. LOADING SHOWN IS NOMINAL (UNFACTORED) FOR EACH APPLICABLE LOAD CASE AND OCCURS AT EACH SUNSHADE OUTRIGGER
2. LOADING SHALL BE FACTORED PER THE LOAD COMBINATIONS IN ASCE 7
3. MAX OUTRIGGER SPACING = 5'-0" ON CENTER
4. NOTIFY SEOR IF SUNSHADE DESIGN RESULTS IN REACTIONS EXCEEDING THOSE SHOWN

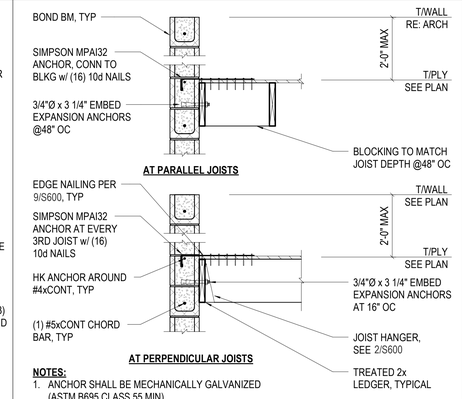
13 1" = 1'-0" PREFAB CANOPY CONNECTION



9 3/4" = 1'-0" MASONRY WALL TO ROOF TRUSS - PERPENDICULAR

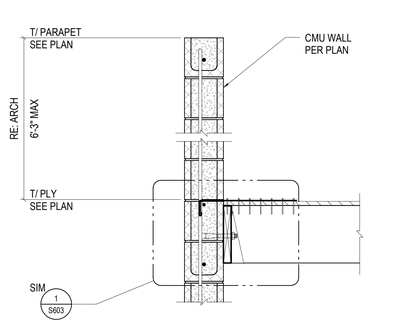


5 3/4" = 1'-0" LOW ROOF BEAM AT CMU WALL

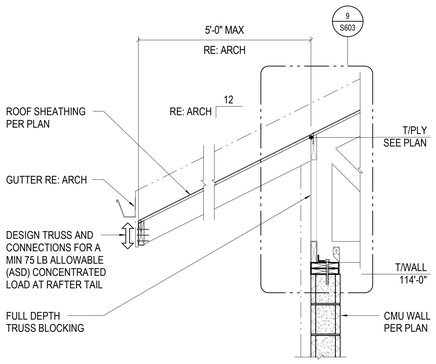


NOTES:
1. ANCHOR SHALL BE MECHANICALLY GALVANIZED (ASTM B695 CLASS 55 MIN)

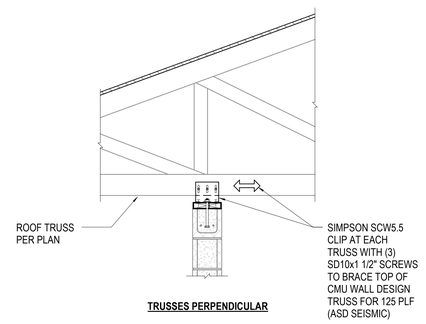
1 3/4" = 1'-0" TYP WOOD JOIST TO MASONRY WALL



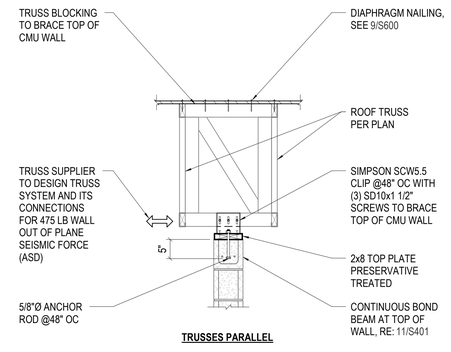
19 1" = 1'-0" HIGH PARAPET AT MECHANICAL WELL



18 3/4" = 1'-0" TRUSS EAVE OVERHANG AT FACILITIES BUILDING

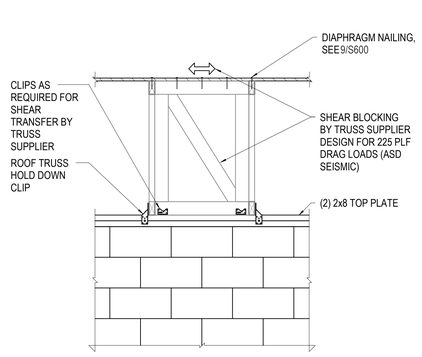


TRUSSES PERPENDICULAR

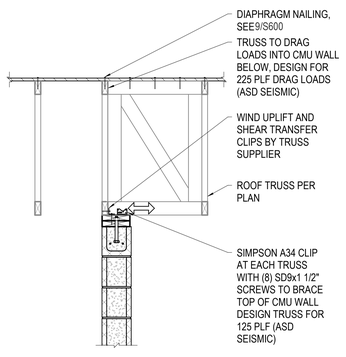


TRUSSES PARALLEL

14 3/4" = 1'-0" MASONRY PARTITION WALL BRACED BY ROOF TRUSS AT TOP

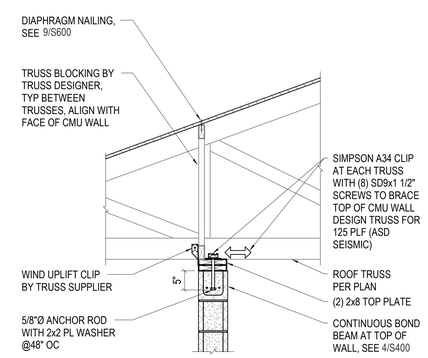


AT DRAG PARALLEL TO WALL

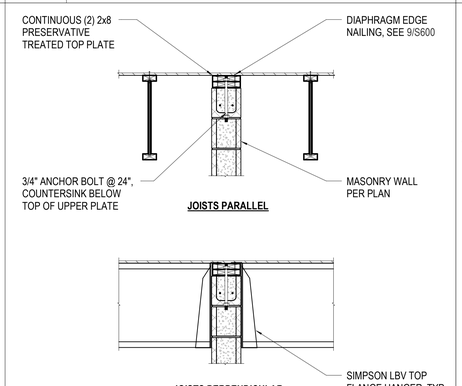


AT DRAG PERPENDICULAR TO WALL

15 3/4" = 1'-0" ROOF TRUSS DRAG TO MASONRY WALL



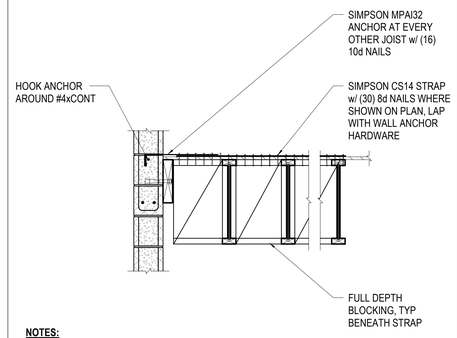
12 3/4" = 1'-0" ROOF TRUSS BEARING ON INTERIOR MASONRY WALL



JOISTS PARALLEL

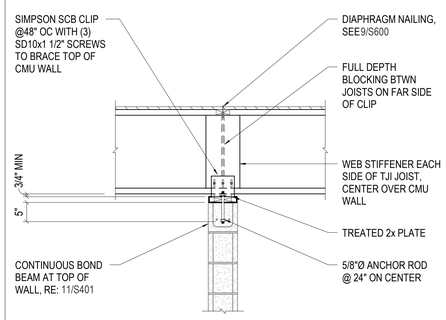
JOISTS PERPENDICULAR

7 3/4" = 1'-0" INTERIOR MASONRY WALL SUPPORTING WOOD ROOF

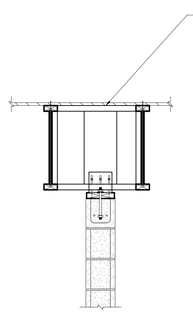


NOTES:
1. SEE 2/S603 FOR ADDITIONAL INFORMATION

3 3/4" = 1'-0" WALL ANCHOR AT MECHANICAL BUILDING - JOISTS PARALLEL



JOISTS PERPENDICULAR



JOISTS PARALLEL

8 3/4" = 1'-0" MASONRY PARTITION WALL BRACED BY TJI AT TOP

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Beaver Dam, WI 53916
920.887.7375

ARCHITECT:
BRS ARCHITECTURE
990 S Broadway #222,
Denver, CO 80209
303.455.1366

CIVIL ENGINEER:
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115 Yellowstone Dr,
Chico, CA 95973
530.895.1422

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415.814.0030 martinmartin.com

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

BARKER RINKER SEACAT ARCHITECTURE
brsarch.com

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

WOOD FRAMING TO CMU

S603

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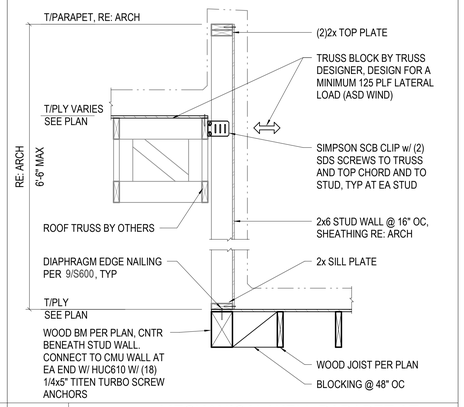
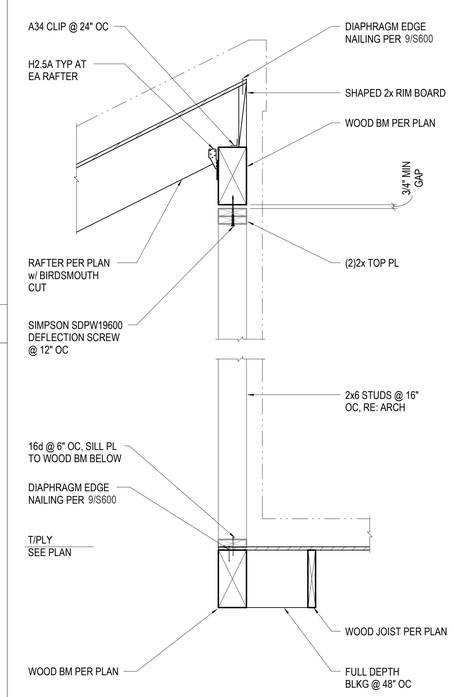
1/22/2025 3:45 PM BY: Jin Ha-Cardoso

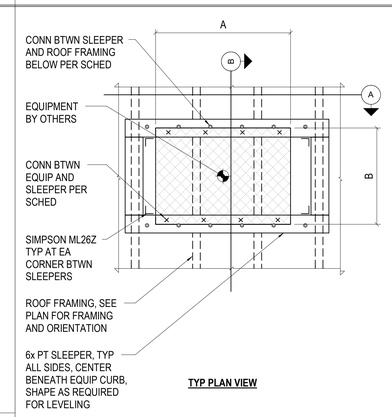
THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, and should read as follows:
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG, IF THIS IS NOT THE CASE, then the sheet is not full size
IF NOT full size, use bar scale



9 3/4" = 1'-0" MECHANICAL WELL PARAPET AT FACILITIES BUILDING



11 1" = 1'-0" BATH HOUSE ROOF FRAMING AT MECHANICAL WELL

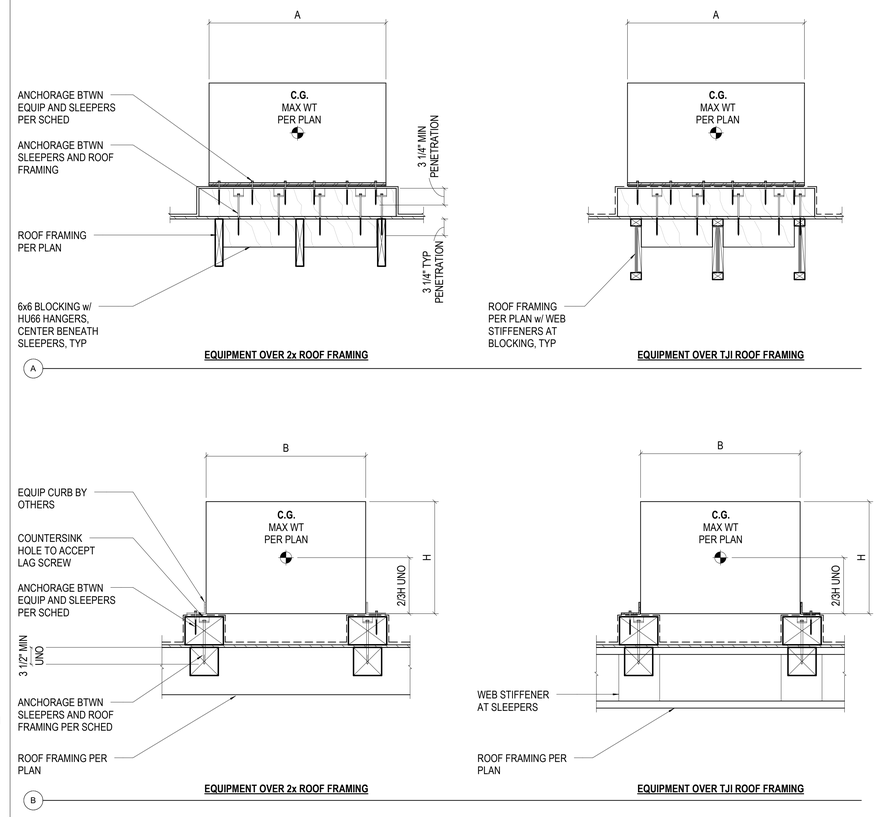


TYP PLAN VIEW

ROOF MOUNTED EQUIPMENT ANCHORAGE SCHEDULE

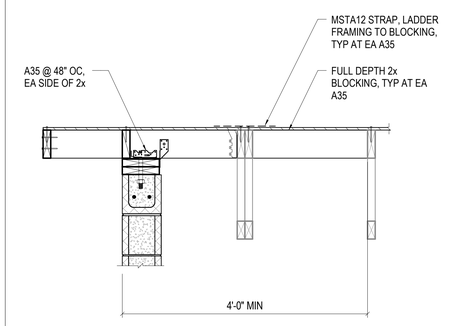
EQUIP ID / TAG	EQUIP TYPE	MAX WT (KIPS)	ANCHORAGE		A (IN)	B (IN)	H (IN)
			BETWEEN UNIT AND SLEEPERS	BETWEEN SLEEPERS AND ROOF FRAMING			
RTU-1	HEAT PUMP	4	(8) 1/4"Ø x 3-1/2" SDS SCREWS	(8) SDWS22600DB SCREWS W/ 3-1/4" EMBED. MIN	87	68	40
EVR-1	HEAT PUMP	4.8	(16) 1/4"Ø x 3-1/2" SDS SCREWS	(16) SDWS22600DB SCREWS W/ 3-1/4" EMBED. MIN	199	65	40
MAU-1	HEAT PUMP	3.8	(10) 1/4"Ø x 3-1/2" SDS SCREWS	(10) SDWS22600DB SCREWS W/ 3-1/4" EMBED. MIN	109	59	38

NOTE:
1. SEE ARCH DRAWINGS FOR ALL WATERPROOFING REQUIREMENTS.
2. TAKE CARE TO AVOID DAMAGING THE ROOF JOISTS BY PRE-DRILLING HOLES.
3. USE STAINLESS STEEL OR HOT DIPPED GALVANIZED FASTENERS.
4. SIMPSON SDS SCREWS PER ESR-2236 WITH THE FOLLOWING MINIMUM DISTANCES: 1-1/2" EDGE DISTANCE, 3" END DISTANCE, 3" SPACING.
5. SEE 6/S600 FOR ROOF DECK PENETRATION.

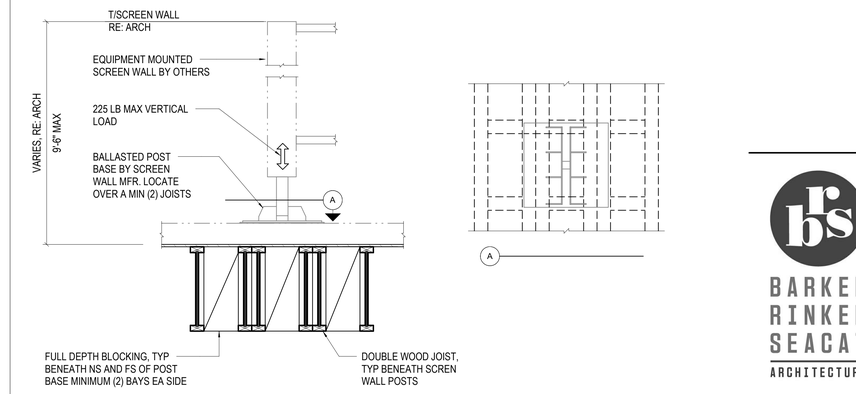


7 1" = 1'-0" ROOFTOP EQUIPMENT ANCHORAGE

NOTES:
1. SEE 6/S602 FOR ADDITIONAL INFORMATION



12 1" = 1'-0" WALL ANCHORAGE TO ROOF DIAPHRAGM AT ROOF TRUSSES



8 3/4" = 1'-0" EQUIPMENT MOUNTED SCREEN WALL POST SUPPORT

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CHICO AREA RECREATION & PARK DISTRICT

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WOOD FRAMING DETAILS

S604

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1/22/2025 9:39:12 AM Autodesk Docs://Chico CA Aquatics Center/23.1228.S.01-CHICO AQUATICS CENTER-S24_.rvt

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG. IF IT IS NOT, ADJUST PLOT SCALE ACCORDINGLY.

THIS SQUARE ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, ANSI D (22" X 34")

plot to .pdf = color
to paper size, use 24x36
to scale drawings from plans

GENERAL LEGEND

ABBV.	SYMBOL	DESCRIPTION
G.C.		GENERAL CONTRACTOR
M.C.		MECHANICAL CONTRACTOR
P.C.		PLUMBING CONTRACTOR
E.C.		ELECTRICAL CONTRACTOR
T.C.C.		TEMPERATURE CONTROL CONTRACTOR
A.F.F.		ABOVE FINISHED FLOOR
A.F.G.		ABOVE FINISHED GRADE
B.F.F.		BELOW FINISHED FLOOR
B.F.G.		BELOW FINISHED GRADE
N.I.C.		NOT IN CONTRACT
N.C.		NORMALLY CLOSED
N.O.		NORMALLY OPEN
SF		SQUARE FOOTAGE
		CONTROL WIRING
AD/AP		ACCESS DOOR/ACCESS PANEL
		DIRECTION OF FLOW IN PIPE
		PITCH PIPE DOWN IN DIRECTION OF ARROW
		PIPE CAP
		GAUGE
		PRESSURE GAUGE WITH COCK
		PIPE UNION
		STRAINER WITH BLOWDOWN VALVE
		STRAINER
CV		CHECK VALVE
BV		BALANCING VALVE
		BALL VALVE
		BUTTERFLY VALVE
		PIPE ELBOW DOWN
		PIPE ELBOW UP
		TEE OFF BOTTOM OF PIPE
		TEE OFF TOP OF PIPE
		THERMOMETER
	X / XXX	X = SECTION/DETAIL NUMBER XXX = SHEET NUMBER WHERE SECTION/DETAIL IS DRAWN

PLUMBING LEGEND

ABBV.	SYMBOL	DESCRIPTION
WC		WATER CLOSET
UR		URINAL
L		LAVATORY
S		SINK
MSB		MOP SERVICE BASIN
SH		SHOWER
DF		DRINKING FOUNTAIN
GDU		GARBAGE DISPOSAL UNIT
ES		EMERGENCY SHOWER
EEW		EMERGENCY EYE WASH
TP		TRAP PRIMER
PP		PLUMBING CIRC. PUMP
PET		PLUMBING EXPANSION TANK
GWH		GAS WATER HEATER
EWH		ELECTRIC WATER HEATER
RPBP		REDUCED PRESSURE BACKFLOW PREVENTER
GPM		GALLON PER MINUTE
CW		DOMESTIC COLD WATER
HW		DOMESTIC HOT WATER
HWC		DOMESTIC HOT WATER CIRCULATING
CW	(NP)	COLD WATER NON POTABLE
G	G	NATURAL GAS
W		SANITARY WASTE BELOW FLOOR
W		SANITARY WASTE ABOVE FLOOR
V		SANITARY VENT
RDL	RDL	ROOF DRAIN ABOVE FLOOR OR GRADE
ODL	ODL	OVERFLOW DRAIN LEADER ABOVE FLOOR OR GRADE
SD		STORM DRAIN BELOW FLOOR OR GRADE
CD	CD	CONDENSATE DRAIN PIPING
LS	LS	LAWN SPRINKLER
FCO		FLOOR CLEANOUT
GCO		GRADE CLEANOUT
WCO	OR	WALL CLEANOUT
		PRESSURE REDUCING VALVE
		HOSE END DRAIN VALVE
		PLUG VALVE
		GAS COCK
		SOLENOID VALVE
		FLOAT
TMV		THERMOSTATIC MIXING VALVE
		QUICK OPENING VALVE
		PIPE GUIDE
		SHOCK ABSORBER (ELEVATION)
		SHOCK ABSORBER (PLAN)
		PIPE ANCHOR
HB/WH	OR	HOSE BIBB/WALL HYDRANT
		AQUASTAT
VTR		VENT THRU ROOF
AD		AREA DRAIN
FD		FLOOR DRAIN
FS		FLOOR SINK
TD		TRENCH DRAIN
RD/OD		ROOF DRAIN/OVERFLOW DRAIN
DSN		DOWNSPOUT NOZZLE
		SPLASH BLOCK
		SPLASH BLOCK WITH DOWNSPOUT NOZZLE

SHEET INDEX

SHEET NUMBER	PLUMBING SHEET TITLE	SHEET SCALE
P000	PLUMBING COVER SHEET	NONE
P100	PLUMBING SITE PLAN	1" = 20'
P101	PLUMBING FLOOR PLAN - BATH HOUSE	1/8" = 1'-0"
P102	PLUMBING FLOOR PLAN - BATH HOUSE - UNDERGROUND	1/4" = 1'-0"
P103	PLUMBING FLOOR PLAN - BATH HOUSE - ABOVE GRADE	1/4" = 1'-0"
P104	PLUMBING FLOOR PLAN - POOL MECHANICAL ROOM	1/4" = 1'-0"
P120	PLUMBING ROOF PLANS	1/4" = 1'-0"
P700	PLUMBING SCHEDULES	NONE
P800	PLUMBING DETAILS	NONE
P900	PLUMBING ISOMETRICS	NONE

PLUMBING GENERAL NOTES

1. FIELD VERIFY EXACT LOCATION OF ALL CONNECTIONS PRIOR TO CONSTRUCTION.
2. ROUGH-IN AND FINAL CONNECT ALL FIXTURES, EQUIPMENT, ETC.
3. CONTRACTOR SHALL INSPECT SITE TO THOROUGHLY FAMILIARIZE HIMSELF WITH THE AREA OF WORK. ANY DISCREPANCES BETWEEN THESE DOCUMENTS AND ACTUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION PRIOR TO BID PRICING. NO EXTRAS WILL BE ALLOWED DUE TO LACK OF KNOWLEDGE OF EXISTING CONDITIONS.
4. ALL WORK SHALL BE PER LOCAL BUILDING AND HEALTH DEPARTMENT REQUIREMENTS.
5. PROVIDE BALL VALVES ON ALL BRANCH LINES FOR BUILDING ISOLATION WHETHER SHOWN OR NOT.
6. REFERENCE HVAC DRAWINGS FOR EXACT LOCATION OF ALL HVAC EQUIPMENT REQUIRING PLUMBING CONNECTIONS. COORDINATE WITH HVAC CONTRACTOR EXACT PLUMBING CONNECTION REQUIREMENTS PRIOR TO COMMENCING WORK.
7. ALL STORM DRAINAGE PIPING WITHIN THE BOUNDARIES OF THE BUILDING SHALL BE SLOPED AT 1/8" PER FOOT UNLESS OTHERWISE NOTED.
8. ALL VENTS THROUGH THE ROOF (VTR) SHALL BE POSITIONED A MINIMUM OF 15'-0" FROM ANY OUTSIDE AIR INTAKE.
9. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL FIRE RATED WALLS. ALL PIPE PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE SEALED IN ACCORDANCE WITH THE BUILDING CODE.
10. OFFSET ALL PIPING AS REQUIRED TO AVOID STRUCTURAL MEMBERS, CANTS, FLASHING, MECHANICAL, OR ELECTRICAL EQUIPMENT.
11. PROVIDE CHROME PLATED SET SCREW TYPE ESCUTCHEONS AT ALL EXPOSED PIPE PENETRATIONS THROUGH WALLS AND CASEWORK.
12. PROVIDE TRAP PRIMERS TO ALL FLOOR DRAINS & FLOOR SINKS WITH ACCESS THAT HAVE THE POSSIBILITY FOR EVAPORATION PROBLEMS AND AS INDICATED IN THE SPECIFICATION.
13. VERIFY AND COORDINATE EXACT SIZE, LOCATION, AND ELEVATION OF KITCHEN PLUMBING ROUGH-INS WITH KITCHEN EQUIPMENT CONTRACTOR PRIOR TO CONSTRUCTION.
14. PROVIDE ACCESSIBLE SHUT-OFF VALVES FOR ALL KITCHEN EQUIPMENT REQUIRING WATER SERVICE.
15. ALL EXPOSED PIPING IN THE KITCHEN AREA TO BE A CLEANABLE SURFACE PER LOCAL HEALTH DEPARTMENT.
16. PLUMBING CONTRACTORS SHALL PROVIDE ALL INDIRECT WASTE PIPING AND MAKE FINAL CONNECTIONS TO SINKS, KITCHEN EQUIPMENT, ETC. VERIFY SIZES AND LOCATIONS WITH KITCHEN EQUIPMENT CONTRACTOR'S SHOP DRAWINGS.
17. COMPLY WITH ALL BUILDING AND HEALTH DEPARTMENT REGULATIONS FOR PLUMBING INSTALLATION. VERIFY ALL REQUIREMENTS PRIOR TO SUBMITTING BID OR COMMENCING WORK.
18. FLUSH MOUNT ALL FLOOR SINKS IN KITCHEN AREA FOR FLOOR DRAINAGE USE.
19. SEAL ALL PENETRATION/OPENINGS (ESCUTCHEONS, CLEANOUT COVER ETC.) INTO WALL IN POOL EQUIPMENT, LOCKER ROOM AND ALL AREA ASSOCIATED WITH WET ENVIRONMENTS.
20. CONTRACTOR SHALL MAINTAIN A COMPLETE AND ACCURATE SET OF RECORD DRAWINGS SHOWING ACTUAL INSTALLED LOCATIONS OF WORK. SUBMIT THESE DRAWINGS AS PART OF THE OPERATION AND MAINTENANCE MANUALS AT COMPLETION OF PROJECT.

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PLUMBING COVER SHEET

P000

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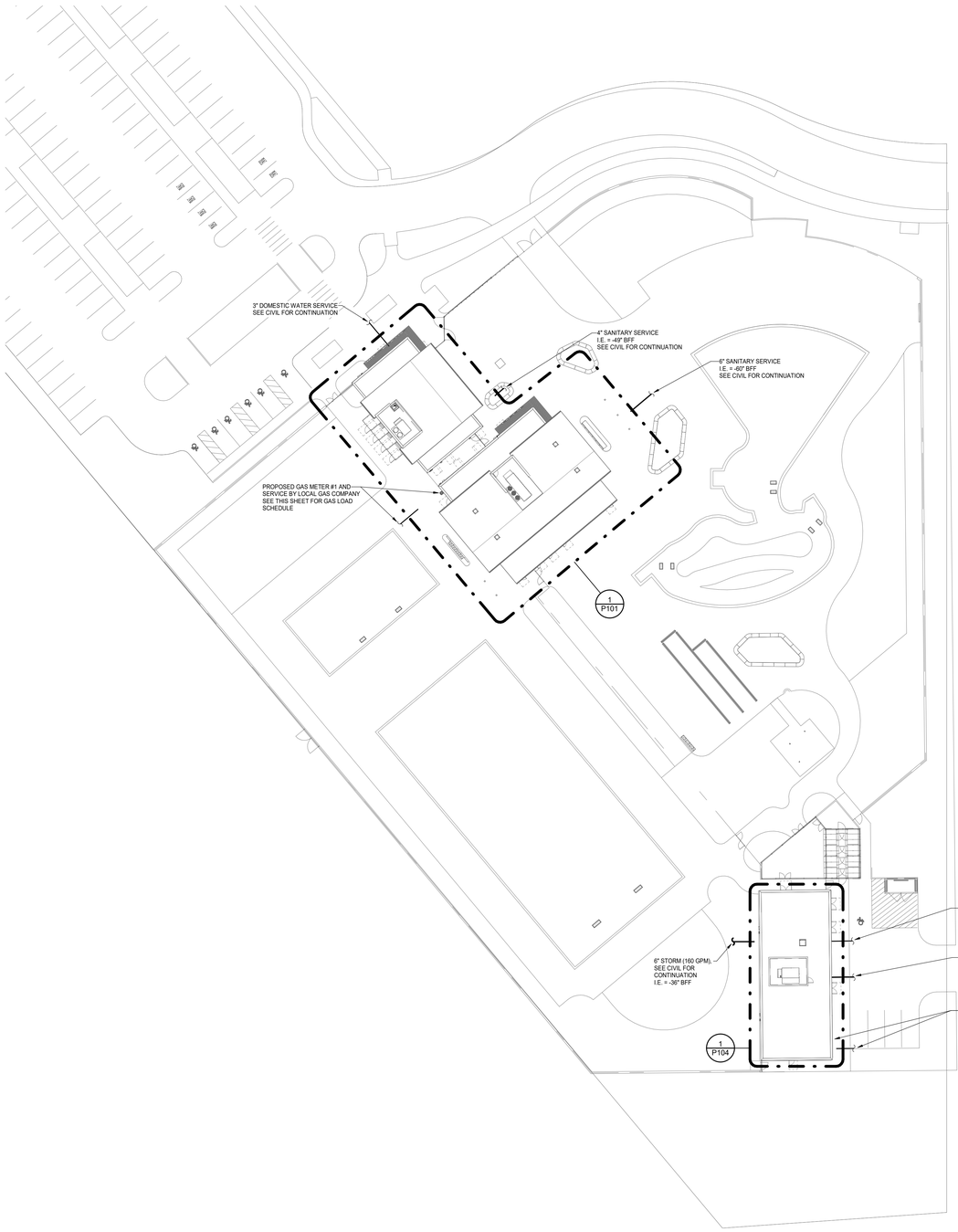

PLUMBING SITE PLAN

SCALE: 1" = 30'-0"

GAS LOAD SCHEDULE (METER #1):

APPLIANCE:	LOAD:
GAS WATER HEATER - GWH-1	200 MBH
GAS WATER HEATER - GWH-2	200 MBH
TOTAL LOAD ON	400 MBH INPUT AT S.L.
GAS METER:	6" WC PRESSURE TO BUILDING. M.C. TO COORDINATE LOAD WITH LOCAL GAS COMPANY

GAS LOAD SCHEDULE (METER #2):

APPLIANCE:	LOAD:
MAKEUP AIR UNIT - MAU-1	70 MBH
POOL HEATER - H1A	3,000 MBH
POOL HEATER - H2A	3,000 MBH
POOL HEATER - H1B	1,000 MBH
POOL HEATER - H1C (FUTURE)	990 MBH
POOL HEATER - H2C (FUTURE)	990 MBH
TOTAL LOAD ON	9,050 MBH INPUT AT S.L.
GAS METER:	2 PSI PRESSURE TO BUILDING. M.C. TO COORDINATE LOAD WITH LOCAL GAS COMPANY

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PLUMBING SITE PLAN

P100

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THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, ALTERNATE COLORS

IF NOT 1/2" plot to scale
for paper size, use 1/2" as a guide

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH ONLY, IF THIS LINE IS NOT ONE INCH, ADJUST ALL SCALES ACCORDINGLY

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- for digital plots, use bar scale and/or scale factor
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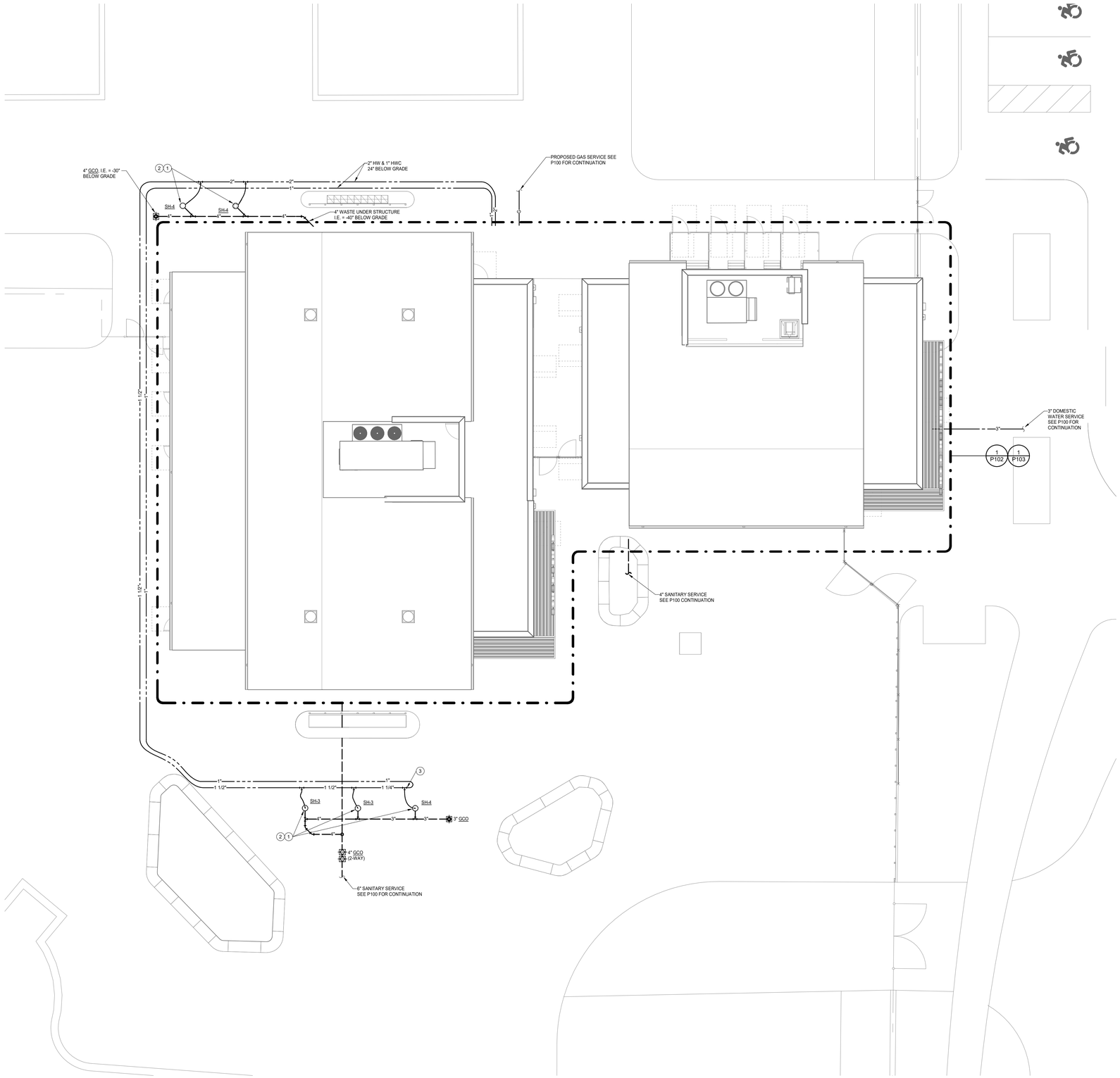
- for paper plots, use color
- for digital plots, use color



BATHHOUSE PLUMBING KEYNOTES:

1. 3" WASTE TO SH, 2" VENT RISE IN SHOWER COLUMN.
2. 1" HW RISE TO SH.
3. CONNECT 1" HWC TO 1-1/4" HW.

1 / P101 PLUMBING FLOOR PLAN - BATH HOUSE

SCALE: 1/8" = 1'-0"

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PLUMBING FLOOR PLAN - BATH HOUSE

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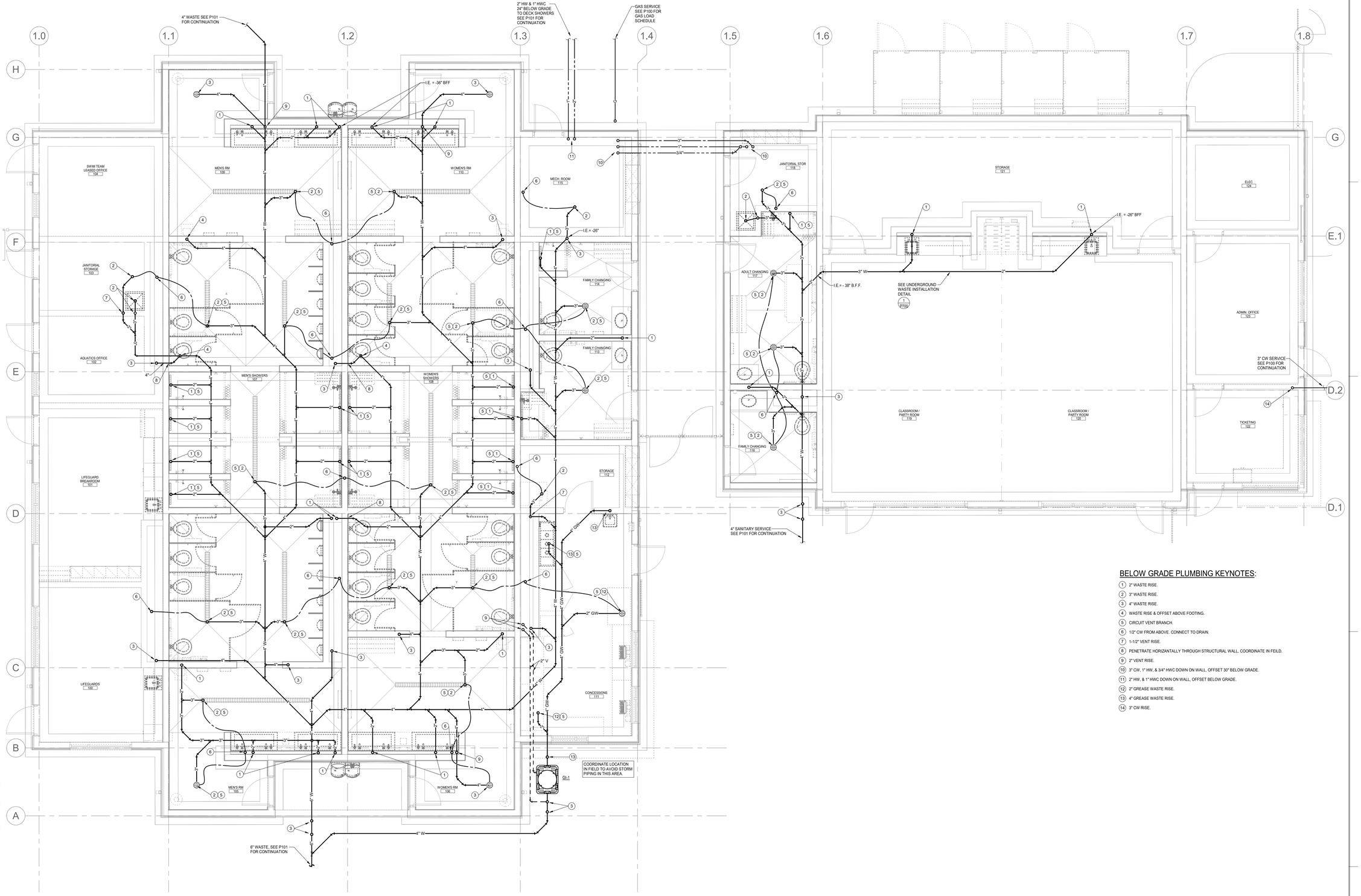

BELOW GRADE PLUMBING KEYNOTES:

1. 2" WASTE RISE.
2. 3" WASTE RISE.
3. 4" WASTE RISE.
4. WASTE RISE & OFFSET ABOVE FOOTING.
5. CIRCUIT VENT BRANCH.
6. 1/2" CW FROM ABOVE. CONNECT TO DRAIN.
7. 1-1/2" VENT RISE.
8. PENETRATE HORIZANTALLY THROUGH STRUCTURAL WALL, COORDINATE IN FEILD.
9. 2" VENT RISE.
10. 3" CW, 1" HW, & 3/4" HWC DOWN ON WALL, OFFSET 30" BELOW GRADE.
11. 2" HW, & 1" HWC DOWN ON WALL, OFFSET BELOW GRADE.
12. 2" GREASE WASTE RISE.
13. 4" GREASE WASTE RISE.
14. 3" CW RISE.

1 P102 PLBG FLOOR PLAN - BATH HOUSE - BELOW GRADE

SCALE: 1/4" = 1'-0"

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PLUMBING FLOOR PLAN - BATH HOUSE - UNDERGROUND

P102

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pdf to .pdf plotter
for paper plots, use 24"x36"
for electronic plots, use 11"x17"

PLUMBING BATH HOUSE KEYNOTES:

(1) 3" CW SERVICE, RISE AND OFFSET AT STRUCTURE. PROVIDE SHUTOFF VALVE WITH ACCESS IN VERTICAL PRIOR TO WH BRANCH TO ALLOW FOR BUILDING DRAINAGE. SEE THRUSTBLOCK DETAIL: 12/P700.
(2) 2" W DOWN, 1-1/2" V RISE, 1/2" CW & 1/2" HW TO SINK/SHOWER/LAV/HS.
(3) 1-1/2" V RISE TO 2" VTR.
(4) 1/2" BALANCING VALVE WITH ACCESS. BALANCE TO 0.5 GPM.
(5) 1/2" BALANCING VALVE WITH ACCESS. BALANCE TO 1.0 GPM.
(6) 3/4" BALANCING VALVE WITH ACCESS. BALANCE TO 6.0 GPM.
(7) 4" WASTE RISE & OFFSET IN CHASE.
(8) 4" W DOWN, 2" V RISE, 1" CW TO WC.
(9) 2" W DOWN, 1-1/2" V RISE FOR SUIT SPINNER.
(10) 3" W DOWN, 1-1/2" V RISE FOR FD/FS.
(11) 4" W DOWN, 2" V RISE FOR FD/FS/TD.
(12) 2" V RISE TO 2" VTR.
(13) 3/4" HW & 3/4" HWC DOWN IN WALL. CONNECT WITHIN 2 FT OF FIXTURE STOP.
(14) TRAP PRIMER (TP) WITH ACCESS. ROUTE 1/2" OUTLETS TO EACH DRAIN AS SHOWN ON P102.
(15) BALL/BUTTERFLY VALVE AS INDICATED. FULL SIZE, WITH ACCESS.
(16) 2" CW DOWN IN CHASE, OFFSET TO FIXTURES.
(17) 3" CW, 1" HW, & 3/4" HWC DOWN ON WALL, OFFSET 30" BELOW GRADE.
(18) 2" HW, & 1" HWC DOWN ON WALL, OFFSET BELOW GRADE.
(19) 2" VENT RISE FROM WASTE.
(20) 3" RDL & 3" ODL DOWN. 3" RDL CONNECT TO 3" DSN AT 12" AFF, 3" ODL CONNECT TO 3" DSN AT 18" AFF.
(21) PLUG VALVE, FULL SIZE, ON HOUSE SIDE OF METER.
(22) CONNECT 1" GAS TO UNIT WITH GAS COCK & 6" DIRT LEG.
(23) 3" V RISE TO 3" VTR.
(24) 3/4" CW & 3/4" HW DOWN IN WALL, 1/2" CW & 1/2" HW TO SH.
(25) 3" W DOWN, 1-1/2" V RISE, 1/2" CW & 1/2" HW TO MSB. 3/4" CW TO HB AT 60" ABOVE BASIN.
(26) 1/2" CW TO IMB.
(27) ROOF ACCESS HATCH, AVOID PLUMBING UNDERNEATH.
(28) 3/4" HWC DOWN IN CHASE, CONNECT TO 3/4" HW.
(29) INDIRECT DRAIN SINK TO FS. 1/2" CW & 1/2" HW TO FAUCET.
(30) 3/4" CW & 3/4" HW DOWN IN WALL, OFFSET IN WALL TO LAVS.
(31) 2" W DOWN, 1-1/2" V RISE, 1/2" CW TO DF.
(32) 3/4" CW TO HB/WH/RH.
(33) 2" W DOWN, 1-1/2" V RISE, 3/4" CW TO UR.
(34) ROUTE WASTE AS HIGH IN CASE WORK AS POSSIBLE.
(35) CONNECT 3/4" CD TO UNIT, ROUTE AT 1.04% AS HIGH AS POSSIBLE.
(36) 3/4" CD DOWN IN WALL, AIRGAP TO STANDPIPE BELOW CASEWORK.
(37) WATER PIPING DOWN AND OFFSET IN CEILING.
(38) WATER PIPING RISE AND OFFSET AT STRUCTURE.
(39) (2)2" VENT RISE AND COMBINE 12" AFF, 2" VENT RISE AND OFFSET IN CEILING.
(40) 1/2" CW & 1/2" HW DOWN IN WALL TO SH.
(41) 3" RDL & 3" ODL RISE TO DRAIN ABOVE.
(42) 1/2" BALANCING VALVE WITH ACCESS. BALANCE TO 1.5 GPM.

1 PLBG FLOOR PLAN - BATH HOUSE - ABOVE GRADE
P103 SCALE: 1/4" = 1'-0"

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BARKER RINKER SEACAT ARCHITECTURE

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

PLUMBING FLOOR PLAN - BATH HOUSE - ABOVE GRADE

P103

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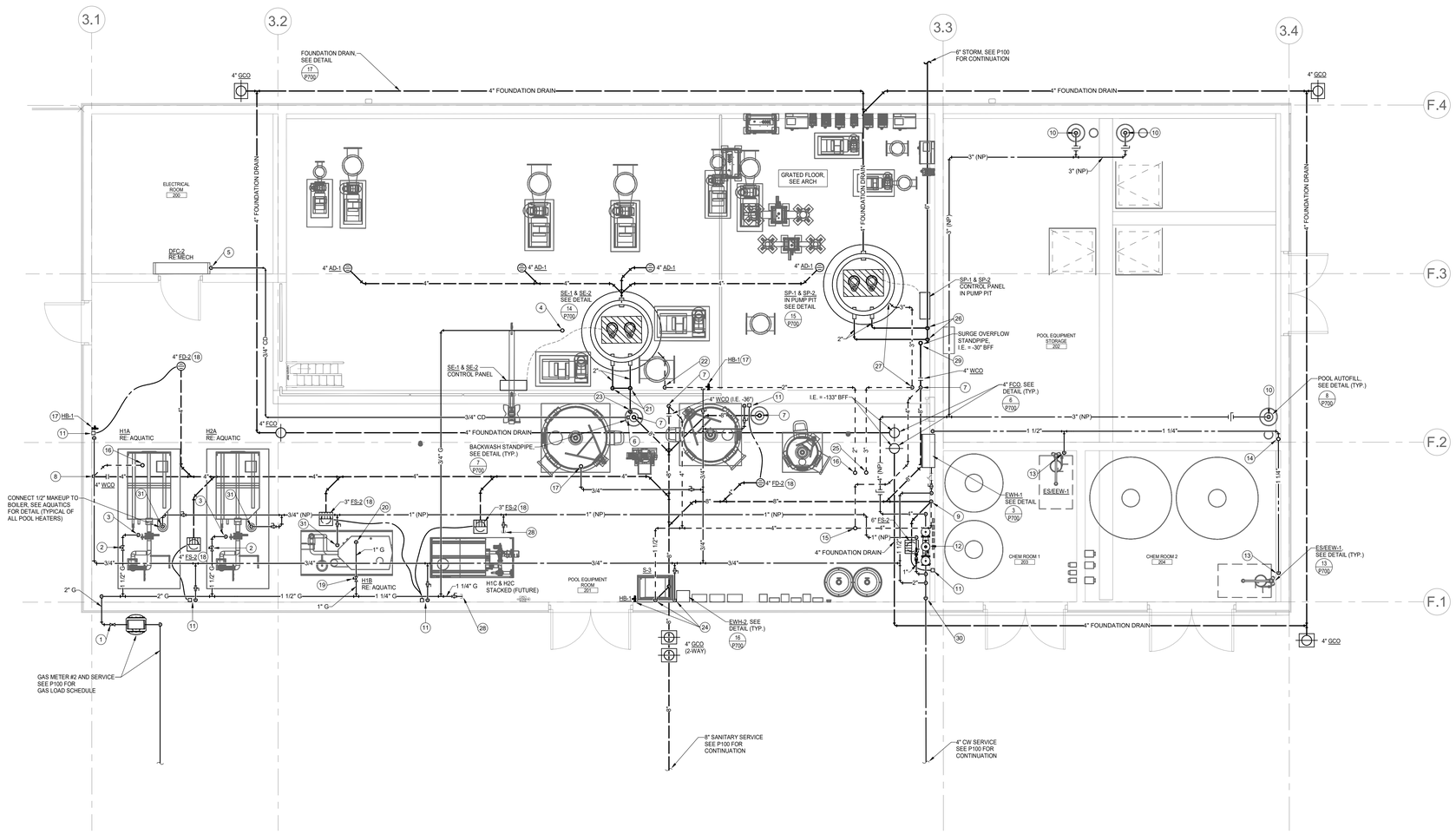

PLUMBING POOL MECH KEYNOTES:

1. PLUG VALVE, FULL SIZED, ON HOUSE SIDE OF METER.
2. GAS PRV. 3,000 MBH INPUT AT S.L. 2 PSI TO 10" WC. ROUTE RELIEF TO EXTERIOR.
3. CONNECT 2-1/2" GAS TO UNIT WITH ACCESSIBLE GAS COCK & 6" DIRT LEG. PROVIDE OPERATOR ON VALVE IF INSTALLED OVERHEAD.
4. 3/4" GAS RISE TO ROOF.
5. CONNECT 3/4" CD TO UNIT, ROUTE AS HIGH AS POSSIBLE AT 1.04%.
6. 3/4" CD DOWN & AIRGAP INTO DRAIN HUB.
7. 8" W DOWN, 4" V RISE FOR DRAIN HUB.
8. 4" W DOWN, 2" V RISE FOR CIRCUIT VENT.
9. 6" W DOWN, 3" V RISE FOR FD/FS.
10. 3" CW (NP) DOWN & CONNECT TO POOL FILL. SEE DETAIL
11. 1/2" CW TO TRAP PRIMER (TP). ROUTE OUTLET TO DRAIN AS SHOWN.
12. 4" CW TO 4" RPBP FOR POOL MAKEUP. 4" CW (NP) OFFSET AT STRUCTURE. ADDITIONAL 1" RPBP TO SUPPORT BOILER MAKEUP. 1" CW (NP) OFFSET AT STRUCTURE.
13. 1-1/4" TEPID HW TO ES-EEW. ANY PIPING WITHIN CHEMICAL ROOMS SHALL BE SCH. 40 CPVC WITH SOLVENT WELDED FITTINGS FOR CORROSION RESISTANCE.
14. SHOCK ABSORBER CLASS B, OUTSIDE CHEMICAL ROOM.
15. 4" V RISE TO 4" VTR.
16. 2" V RISE TO 2" VTR.
17. 3/4" CW TO HB/WH/RH.
18. CIRCUIT VENTED FIXTURE.
19. GAS PRV. (VENTLESS) 1,000 MBH INPUT AT S.L. 2 PSI TO 10" WC.
20. CONNECT 2" GAS TO UNIT WITH ACCESSIBLE GAS COCK & 6" DIRT LEG. PROVIDE OPERATOR ON VALVE IF INSTALLED OVERHEAD.
21. (2)2" PUMP DISCHARGES RISE AND COMBINE AT 18" ABOVE PIT FLOOR. CONTINUE UP WITH 3".
22. 2" VENT FROM PIT, RISE AND OFFSET AT STRUCTURE.
23. 3" DRAIN DOWN AND AIRGAP TO DRAIN HUB.
24. 3/4" CW DOWN. 1/2" CW TO EWH, 1/2" HW OUTLET TO SINK. 3/4" CW TO HB. 2" W DOWN, 1-1/2" VENT RISE, 1/2" CW & 1/2" HW TO SINK.
25. 3" V RISE TO 3" VTR.
26. (2)2" PUMP DISCHARGES RISE AND COMBINE AT 18" ABOVE PIT FLOOR. CONTINUE UP WITH 3", TURN OVER WITH 6" MIN. BELOW GRATED FLOOR. SLOPE AT 1.04% AS SHOWN.
27. 3" VENT FROM PIT, RISE AND OFFSET AT STRUCTURE.
28. CAP 3/4" CW AND 1-1/4" GAS FOR FUTURE USE.
29. 8" W RISE TO STANDPIPE FOR SURGE TANK OVERFLOW. COORDINATE TOP OF STANDPIPE WITH AQUATICS. ROUTE AS HIGH AS POSSIBLE
30. 1.5" DRAIN VALVE IN VERTICAL, EXTEND TO FS. SEE THRUSTBLOCK DETAIL: 12/700.
31. 1/2" CW DOWN TO POOL HEATER.

1/P104 PLUMBING FLOOR PLAN - POOL MECHANICAL ROOM

SCALE: 1/4" = 1'-0"

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PLUMBING FLOOR PLAN - POOL MECHANICAL ROOM

P104

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG. IF IT DOES NOT PLOT AS SHOWN, plot to suit in order to open units, use proper scale.
THIS SQUARES ABOVE ARE COLOR WITH BLACK AND WHITE LETTERS, and black and white lettering.

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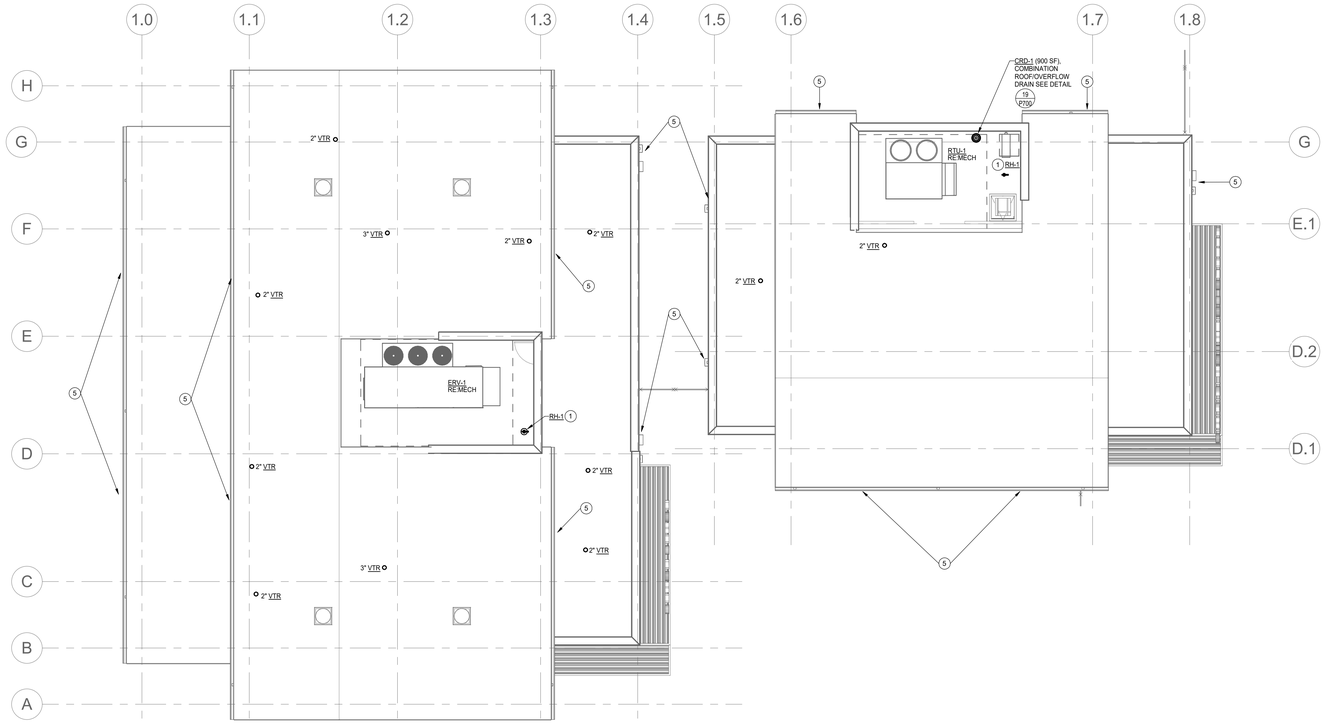
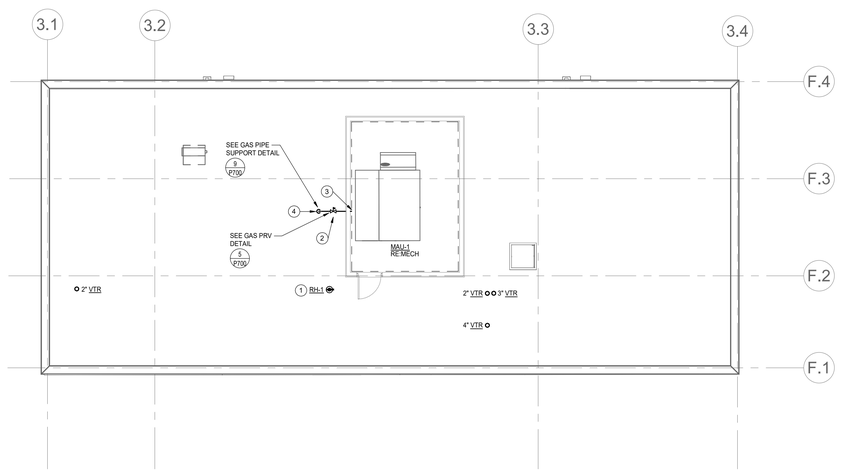


PLUMBING ROOF KEYNOTES:

1. 3/4" CW TO RH.
2. GAS PRV. 70 MBH INPUT AT S.L. 2 PSI TO 10" WC OUTLET.
3. CONNECT 3/4" GAS TO UNIT WITH GAS COCK & 6" DIRT LEG.
4. 3/4" GAS DOWN TO FLOOR BELOW.
5. ROOF DRAINAGE BY SCUPPER AND DOWNSPOUT, DISCHARGING TO POOL DECK. CONTINUATION BY CIVIL.

BATH HOUSE, CONCESSIONS, & FACILITIES ROOF PLAN

SCALE: 1/8" = 1'-0"



POOL MECHANICAL ROOF PLAN

SCALE: 1/8" = 1'-0"

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PLUMBING ROOF PLANS

P120

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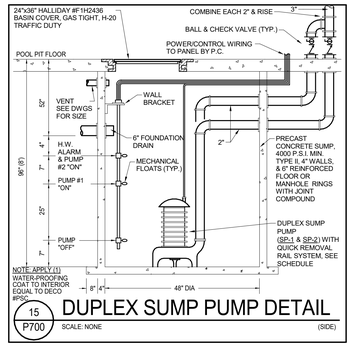
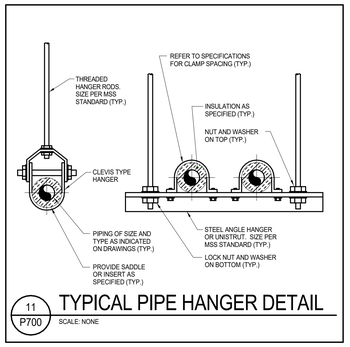
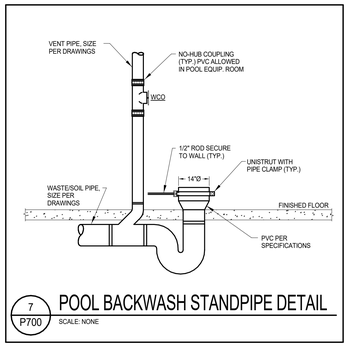
plot to .pdf in color
for paper size, use 24x36
scale accordingly to match



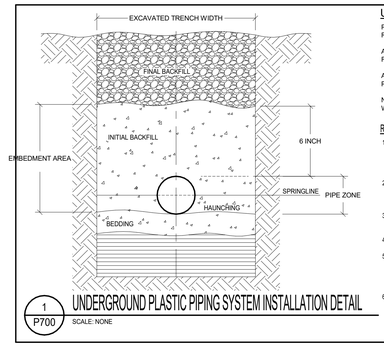
15 P700 **DUPLEX SUMP PUMP DETAIL**
SCALE: NONE (SIDE)



11 P700 **TYPICAL PIPE HANGER DETAIL**
SCALE: NONE



7 P700 **POOL BACKWASH STANDPIPE DETAIL**
SCALE: NONE



1 P700 **UNDERGROUND PLASTIC PIPING SYSTEM INSTALLATION DETAIL**
SCALE: NONE

UNDERGROUND INSTALLATION OF PLASTIC PIPING:

PLASTIC PIPE SHOULD ALWAYS BE BURIED IN STRICT ACCORDANCE WITH THE ASTM STANDARD RELEVANT TO THE TYPE OF PLASTIC PIPING SYSTEM BEING INSTALLED. THOSE STANDARDS ARE:

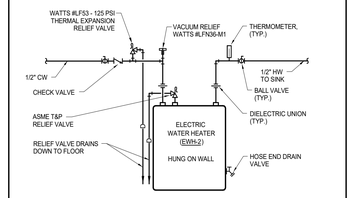
ASTM D2321 STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS

ASTM D2774 STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PRESSURE PIPING.

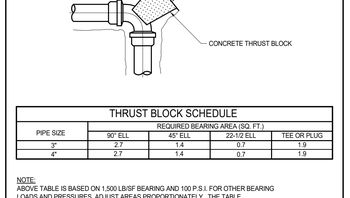
NOTE: IN ADDITION TO THESE STANDARDS, PIPE SHOULD ALWAYS BE INSTALLED IN ACCORDANCE WITH ALL LOCAL CODE REQUIREMENTS.

RECOMMENDATIONS FOR UNDERGROUND INSTALLATION OF PLASTIC DRAINAGE PIPE:

1. THE MINIMUM WIDTH OF THE TRENCH SHOULD BE THE PIPE OD (OUTSIDE DIAMETER) PLUS 16 INCHES OR THE PIPE OUTSIDE DIAMETER TIMES 1.25 PLUS 12 INCHES. THIS WILL ALLOW ADEQUATE ROOM FOR JOINING THE PIPE, SNAKING THE PIPE IN THE TRENCH TO ALLOW FOR EXPANSION AND CONTRACTION WHERE APPROPRIATE AND SPACE FOR BACKFILLING AND COMPACTION OF BACKFILL. THE SPACE BETWEEN THE PIPE AND TRENCH WALL MUST BE WIDER THAN COMPACTION EQUIPMENT USED TO COMPACT THE BACKFILL.
2. PROVIDE A MINIMUM OF 4 INCHES OF FIRM, STABLE AND UNIFORM BEDDING MATERIAL IN THE TRENCH BOTTOM. IF ROCK OR UNYIELDING MATERIAL IS ENCOUNTERED A MINIMUM OF 6 INCHES OF BEDDING SHALL BE USED. BLOCKING SHOULD NOT BE USED TO CHANGE GRADE OR TO INTERMITTENTLY SUPPORT PIPE OVER LOW SECTIONS IN THE TRENCH.
3. THE PIPE SHOULD BE SURROUNDED WITH AN AGGREGATE MATERIAL WHICH CAN BE EASILY WORKED AROUND THE SIDES OF THE PIPE. BACKFILLING SHOULD BE PERFORMED IN LAYERS OF 6 INCHES WITH EACH LAYER BEING SUFFICIENTLY COMPACTED TO 95% COMPACTION.
4. A MECHANICAL TAMPER IS RECOMMENDED FOR COMPACTING SAND AND GRAVEL. THESE MATERIALS CONTAIN FINE GRAINS, SUCH AS SILT AND CLAY. IF A TAMPER IS NOT AVAILABLE, COMPACTING SHOULD BE DONE BY HAND.
5. THE TRENCH SHOULD BE COMPLETELY FILLED. THE BACKFILL SHOULD BE PLACED AND SPREAD IN UNIFORM LAYERS TO PREVENT ANY UNFILLED SPACES OR VOIDS. LARGE ROCKS, STONES, FROZEN CLODS OR OTHER LARGE DEBRIS SHOULD BE REMOVED. STONE BACKFILL SHALL PASS THROUGH AN 1-1/2" SIEVE. ROCK SIZE SHOULD BE ABOUT ONE-TENTH OF THE PIPE OUTSIDE DIAMETER. HEAVY TAMPERS OR ROLLING EQUIPMENT SHOULD ONLY BE USED TO CONSOLIDATE THE FINAL BACKFILL.
6. TO PREVENT DAMAGE TO THE PIPE AND DISTURBANCE TO PIPE EMBEDMENT, A MINIMUM DEPTH OF BACKFILL ABOVE THE PIPE SHOULD BE MAINTAINED. PIPE SHOULD ALWAYS BE INSTALLED BELOW THE FROST LEVEL. TYPICALLY, IT IS NOT ADVISABLE TO ALLOW VEHICULAR TRAFFIC OR HEAVY CONSTRUCTION EQUIPMENT TO TRAVERSE THE PIPE TRENCH.



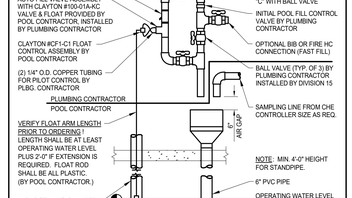
16 P700 **ELECTRIC WATER HEATER DETAIL**
SCALE: NONE



THRUST BLOCK SCHEDULE				
PIPE SIZE	REQUIRED BEARING AREA (SQ. FT.)			
	90° ELL	45° ELL	22-1/2 ELL	TEE OR PLUG
3"	2.7	1.4	0.7	1.9
4"	2.7	1.4	0.7	1.9

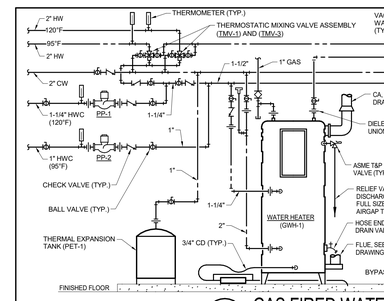
NOTE:
ABOVE TABLE IS BASED ON 1,500 LB/SF BEARING AND 100 P.S.I. FOR OTHER BEARING LOADS AND PRESSURES, ADJUST AREAS PROPORTIONATELY. THE TABLE NEGLECTS CENTRIFUGAL THRUST.

12 P700 **THRUST BLOCK - CONCRETE**
SCALE: NONE



NOTE: AUTO FILL VALVE ASSEMBLY AND FLOAT CONTROL COMPONENTS SUPPLIED BY POOL CONTRACTOR.
AUTO FILL VALVE ASSEMBLY AND COPPER PIPING SHALL BE INSTALLED BY PLUMBING CONTRACTOR.
TERMINATE STILLING CHAMBERS 12" OFF SURGE TANK FLOOR.

8 P700 **POOL AUTO FILL DETAIL**
SCALE: NONE



NOTES:
VACUUM RELIEF IS ONLY REQUIRED ON HEATERS NOT PROVIDED WITH DIP TUBES WITH ANTI SIPHON PROTECTION.

ONLY NONFERROUS PIPE CONNECTIONS TO HEATER

PROVIDE OR REVERSE RETURN. PIPING SHOULD BE LOCATED FOR HEATER REMOVAL WITH VALVING TO KEEP OTHER HEATER OPERATIONAL

2 P700 **GAS FIRED WATER HEATER DETAIL**
SCALE: NONE

17 P700 **PERIMETER FOUNDATION DRAIN DETAIL**
SCALE: NONE

13 P700 **EMERGENCY SHOWER/EMERGENCY EYEWASH DETAIL**
SCALE: NONE

9 P700 **GAS PIPING SUPPORT DETAIL**
SCALE: NONE

5 P700 **GAS PRESSURE REGULATING VALVE PIPING DETAIL**
SCALE: NONE

3 P700 **ELECTRIC WATER HEATER DETAIL**
SCALE: NONE

18 P700 **ROOF DRAIN INSTALLATION DETAIL**
SCALE: NONE

14 P700 **DUPLEX SEWAGE EJECTOR DETAIL**
SCALE: NONE (SIDE)

10 P700 **WALL CLEANOUT DETAIL**
SCALE: NONE

6 P700 **FLOOR CLEANOUT DETAIL**
SCALE: NONE

4 P700 **GRADE CLEANOUT (2-WAY)**
SCALE: NONE

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PLUMBING DETAILS

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IF NOT, ADJUST PLOT SCALE ACCORDINGLY
pick to suit in color
for paper size, use 24x36
WITH BLACK AND WHITE LETTERS,
THIS SQUARE ABOVE ARE COLOR,

MISCELLANEOUS PLUMBING FIXTURE SCHEDULE

PLAN CODE	DESCRIPTION	MANUFACTURER	MODEL	FINISH	REMARKS
PET-1	PLUMBING EXPANSION TANK	AMTROL	ST-30VC-DD	STEEL	NOTE: 1
TMV-1	THERMOSTATIC MIXING VALVE	BRADLEY	S59-3045	ROUGH BRASS	NOTE:2
TMV-2	THERMOSTATIC MIXING VALVE	BRADLEY	S59-4000	ROUGH BRASS	NOTE:3
TMV-3	THERMOSTATIC MIXING VALVE	BRADLEY	S59-2025	ROUGH BRASS	NOTE:4
TD-1	TRENCH DRAIN	ZURN	Z886-SCD	SS CIRCULAR GRATE	NOTE:5
TD-2	TRENCH DRAIN (32")	ZURN	ZS880-32-WG	SS WAVE GRATE	-
TD-3	TRENCH DRAIN (72")	ZURN	ZS880-72-WG	SS WAVE GRATE	-
TD-4	TRENCH DRAIN (48")	ZURN	ZS880-48-WG	SS WAVE GRATE	-

NOTES:
1. ASME CONSTRUCTION.
2. SET TO 120° F.
3. SET TO 110° F.
4. SET TO 95° F.
5. PROVIDE MANUFACTURER SHOP DRAWINGS WITHIN SUBMITTALS FOR REVIEW.

PLUMBING FIXTURE CONNECTION SCHEDULE

PLAN CODE	FIXTURE	PIPE SIZE (INCHES, MINIMUM)							REMARKS
		WASTE			COLD WATER		HOT WATER		
		TRAP & ARM	VERT. DRAIN	VENT (MIN.)	SUPPLY (MIN.)	CONNECTION (ACTUAL)	SUPPLY (MIN.)	CONNECTION (ACTUAL)	
WC	WATER CLOSET	INT.	4"	2"	1"	1"	-	-	
UR	URINAL	INT.	2"	1-1/2"	3/4"	3/4"	-	-	
L	LAVATORY	1-1/2"	2"	1-1/2"	1/2"	3/8"	1/2"	3/8"	
S	SINK	1-1/2"	2"	1-1/2"	1/2"	1/2"	1/2"	1/2"	
SH	SHOWER	2"	2"	1-1/2"	1/2"	1/2"	1/2"	1/2"	
DF	DRINKING FOUNTAIN	1-1/2"	2"	1-1/2"	1/2"	3/8"	-	-	
WH/HB/RH	WALL HYDRANT, HOSE BIBB, ROOF HYDRANT	-	-	-	3/4"	3/4"	-	-	
ES/EEW	EMERGENCY SHOWER/ EYEWASH	-	-	-	1-1/4"	-	1-1/4"	-	TEPID WATER
MSB	MOP SERVICE BASIN	3"	3"	1-1/2"	1/2"	1/2"	1/2"	1/2"	

GREASE INTERCEPTOR SCHEDULE (HYDROMECHANICAL)

PLAN CODE	MANUFACTURER & MODEL NO.	FLOW RATE (GPM)	CAPACITY		INLET SIZE	OUTLET SIZE	APPROX. WT. (LBS)	REMARKS
			WATER GAL.	GREASE LBS.				
GI-1	SCHIER GB-50	50	65	439.5	4"	4"	542	NOTES: 1,2

NOTES:
1. INSTALL PER MANUFACTURERS INSTALLATION MANUAL.
2. PROVIDE WITH SAMPLING PORT FITTING AT GCO DOWNSTREAM OF INTERCEPTOR(SCHIER SV-10).

PLUMBING FIXTURE SCHEDULE

PLAN CODE	DESCRIPTION	MANUF.	MODEL	COLOR FINISH	FITTINGS	MANUF.	MODEL	COLOR FINISH	REMARKS
WC-1	WATER CLOSET - 1.28 GPF WALL HUNG - BATTERY	AMERICAN STANDARD	3351.101	WHITE	SEAT FLUSH VALVE	OLSONITE SLOAN	95SSCT ECOS 8111-1.28	WHITE CHROME	NOTE:2,11
WC-2	WATER CLOSET - 1.28 GPF WALL HUNG - BATTERY - ACCESSIBLE	AMERICAN STANDARD	3351.101	WHITE	SEAT FLUSH VALVE	OLSONITE SLOAN	95SSCT ECOS 8111-1.28	WHITE CHROME	NOTE:3,9,11
UR-1	URINAL - 0.125 GPF WALL HUNG - BATTERY	AMERICAN STANDARD	6042.001EC	WHITE	FLUSH VALVE	SLOAN	ECOS 8186-0.125	CHROME	NOTE:4,11
UR-2	URINAL - 0.125 GPF WALL HUNG - BATTERY - ACCESSIBLE	AMERICAN STANDARD	6042.001EC	WHITE	FLUSH VALVE	SLOAN	ECOS 8186-0.125	CHROME	NOTE:3,9,11
L-1	LAVATORY - 0.5 GPM WALL HUNG - BATTERY - ACCESSIBLE	AMERICAN STANDARD	0356.421	WHITE	FAUCET	CHICAGO	E80-A11A-11ABCPT	CHROME	NOTE:1,5,7,8
L-2	LAVATORY - 0.5 GPM CUSTOM - BATTERY - ACCESSIBLE	BY G.C.	-		FAUCET	CHICAGO	E80-A11A-11ABCPT (X4)	CHROME	NOTE:1,5,7
HS-1	HAND SINK - 0.5 GPM WALL HUNG - BATTERY - ACCESSIBLE	AMERICAN STANDARD	0356.421	WHITE	FAUCET	CHICAGO	E80-A11A-11ABCPT	CHROME	NOTE:1,5,7,8
S-1	SINK - 1.5 GPM - 1 COMP UNDERMOUNT - MANUAL - ACCESSIBLE	ELKAY	ELUHAD-191655	STAINLESS STEEL	FAUCET	CHICAGO	436-ABCP	CHROME	NOTE:1,6,8
S-2	SINK - 1.5 GPM - 2 COMP SCULLERY - MANUAL	ELKAY	14-2C16X20-0X	STAINLESS STEEL	FAUCET	CHICAGO	510-G613L12XKCAB	CHROME	NOTE:1,6,9
S-3	SINK - 1.5 GPM - 1 COMP FREESTANDING - MANUAL	FIAT	FL-1	MOLDED STONE	FAUCET	CHICAGO	895-E35-L8ABCP	CHROME	NOTE:1,5
ES/EEW-1	EMERGENCY SHOWER/EYEWASH BARRIER FREE	BRADLEY	S19314BFPB	COATED GALVANIZED	-	-	-	-	-
MSB-1	MOP SERVICE BASIN	FIAT	MSB2424	WHITE	FAUCET	CHICAGO	897-CP	CHROME	NOTE:10
DF-1	DRINKING FOUNTAIN - BI-LEVEL WITH BOTTLE FILL STATION - ACCESSIBLE	MURDOCK	M-OBR4-GRD-MO	STAINLESS STEEL	CANE APRON	MURDOCK	SK7	-	NOTE:1,7
SH-1	SHOWER - 1.5 GPM 1 FIXED HEAD	BY GC	-	-	VALVE & TRIM HEAD	BRADLEY MOEN	1C-HD-ST-SF-AP-BP 52716EP15	CHROME	NOTE:12
SH-2	SHOWER - 1.5 GPM - ACCESSIBLE 1 FIXED, AND 1 HAND-HELD HEAD	BY GC	-	-	VALVE & TRIM HEAD	BRADLEY MOEN	HD300-HD-SF-ST-A24-NS-AP-BP 52716EP15	CHROME	NOTE:12
SH-3	DECK SHOWER 4-STATION	BRADLEY	COL-4C-A-6-AST SF-ST-D-WS-CR	304 SS	-	-	-	-	NOTE:11
SH-4	DECK SHOWER (ACCESSIBLE) 4-STATION	BRADLEY	SOL-4C-HN-A-6-AST SF-ST-D-WS-CR	304 SS	-	-	-	-	NOTE:11
GDU-1	GARBAGE DISPOSAL UNIT	INSINKERATOR	BADGER 5	-	-	-	-	-	1/2 HP 120/60/1

NOTES:
1. 17 GA. P-TRAP, ANGLE SUPPLIES WITH L.K. STOPS.
2. MOUNT AT 15" AFF.
3. MOUNT AT 17" AFF.
4. MOUNT AT 24" AFF.
5. GRID DRAIN.
6. S.S. CRUMB CUP STRAINER.
7. PROVIDE WALL CARRIER. MOUNT TO BLOCK.
8. INSULATION KIT FOR SUPPLIES AND DRAIN.
9. PROVIDE DRAIN AND VALVE WITH SINK.
10. PAIL HOOK, CHECK STOPS, VACUUM BREAKER.
11. PROVIDE WITH FIXTURE CARRIER.
12. COORDINATE HEAD HEIGHTS WITH ARCHITECT.

WATER HEATER SCHEDULE (GAS-FIRED)

PLAN CODE	MANUFACTURER & MODEL NO.	STORAGE GALLONS	G.P.H. RECOVERY @ 80° RISE	BTUH INPUT @ SEA LEVEL	EFF. FACTOR	FLUE SIZE	TANK SIZE		OPER. WEIGHT	REMARKS
							DIA.	HT.		
GWH-1	RHEEM GHE100SE-200A	100	291	199,900	0.97	SEE HVAC	27"	77"	1,650 LB	NOTE(S):1,2,3
GWH-2	RHEEM GHE100SE-200A	100	291	199,900	0.97	SEE HVAC	27"	77"	1,650 LB	NOTE(S):1,2,3

NOTES:
1. SET TO 140° F.
2. PROVIDE WITH PET-1.
3. 7.5A, 120/60/1.

WATER HEATER SCHEDULE (ELECTRIC)

PLAN CODE	MANUFACTURER & MODEL NO.	STORAGE GALLONS	CAPACITY	KW/ INPUT	ELECTRICAL			NO. ELEM.	KW/ ELEM.	TANK SIZE		OPER. WEIGHT	REMARKS
					VOLTS	CYCLE	PHASE			DxW	HT.		
EWH-1	EEMAX AP063480 EFD NX4	NONE	20 GPM AT 33 DEG RISE	63.0	480	60	3	-	-	14"x30"	24"	130 LB	NOTE:1
EWH-2	EEMAX PRO18240	NONE	1.5 GPM AT 60 DEG RISE	13.3	208	60	1	-	-	4"x8"	12"	7 LB	NOTE:2

NOTES:
1. SET TO 85° F WITH INTERNAL TMV, ASSE 1071.
2. SET TO 120° F WITH INTERNAL TMV.

PLUMBING PUMP SCHEDULE

PLAN CODE	MANUFACTURER & MODEL NO.	TYPE	SERVICE	IMP. DIA. (IN)	GPM	HEAD	% EFF.	ELECTRICAL				VIBRATION ISOLATION	CONTROL	WEIGHT (LBS)	REMARKS
								LOAD	VOLTS	PH	RPM				
PP-1	GRUNDFOS MAGNA3 32-60	IN-LINE	120°F HW	-	9.0	16'	-	1A	120	1	-	INTEGRAL	DDC	14	NOTE: 1,2
PP-2	GRUNDFOS MAGNA3 32-60	IN-LINE	95°F HW	-	6.0	12'	-	1A	120	1	-	INTEGRAL	DDC	14	NOTE: 1,3
SE-1/2	ZOELLER N4284	SUMP	PUMP PIT	-	50.0	20'	-	1/2 HP	120	1	-	INTEGRAL	SECP-1	91	NOTE: 4,5
SP-1/2	ZOELLER J4284	SUMP	PUMP PIT	-	80.0	15'	-	1 HP	200	3	-	INTEGRAL	SEAP-1	91	NOTE: 4,5

NOTES:
1. OCCUPIED(ON), UNOCCUPIED (OFF).
2. RUN IN FLOWADAPT MODE, FLOWLIMIT AT 9 GPM.
3. RUN IN FLOWADAPT MODE, FLOWLIMIT AT 6 GPM.
4. DUPLEX ALTERNATING CONTROL PANEL WITH MECH. FLOATS.
5. (3) CIRCUITS, (1) FOR EACH PUMP, AND (1) FOR CONTROL PANEL.

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BARKER RINKER SEACAT ARCHITECTURE

PERMIT REVIEW & BID SET ONLY
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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number 23030
Issue PERMIT & BID SET
Date 2025-01-24

PLUMIBNG SCHEDULES

P700

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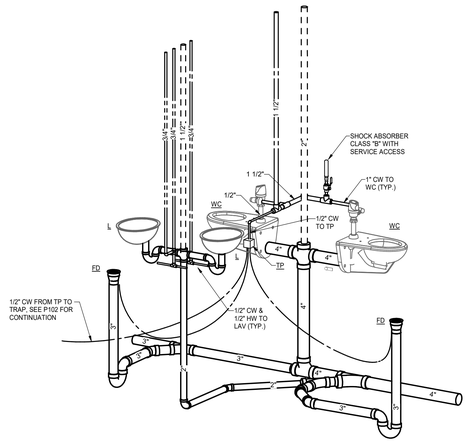
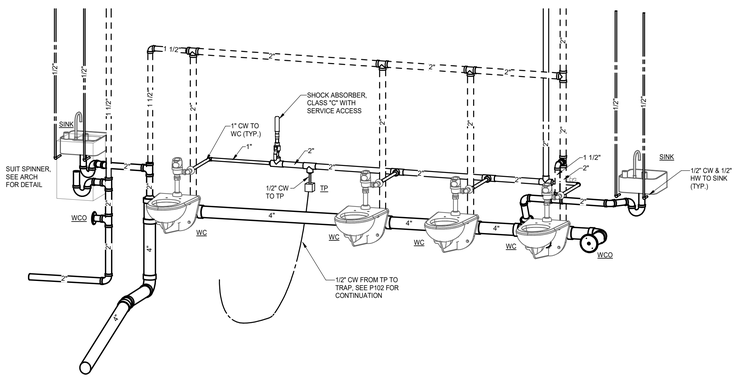


7 P900 PLUMBING ISOMETRIC
SCALE: NONE



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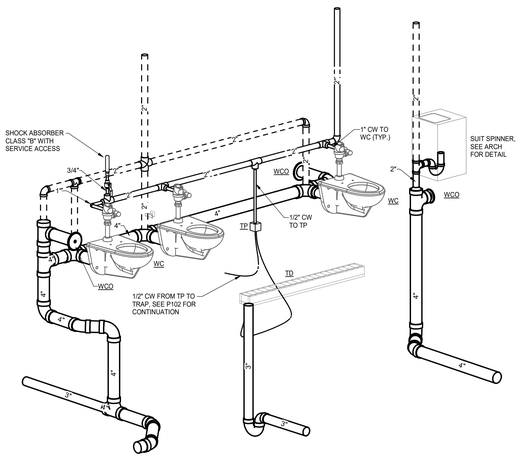

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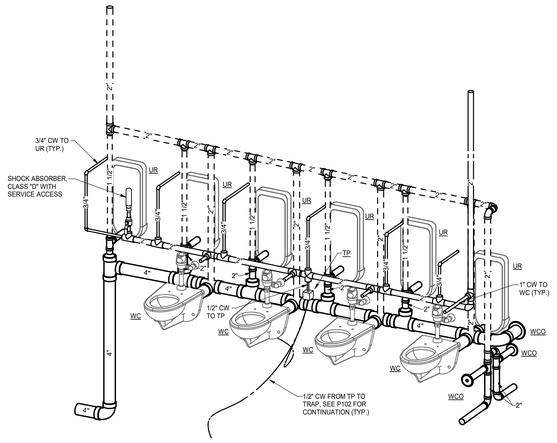

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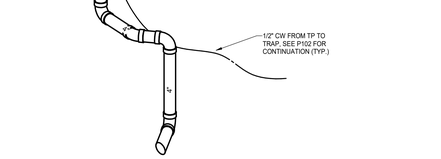

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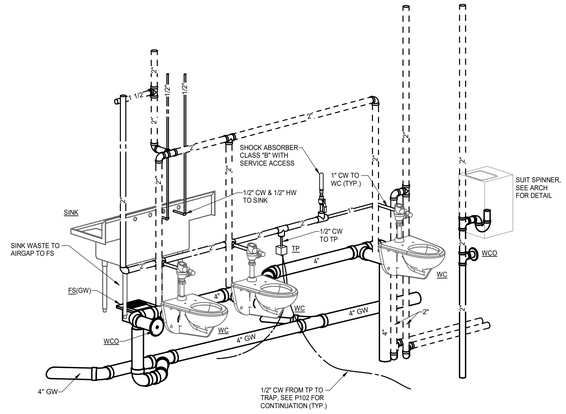

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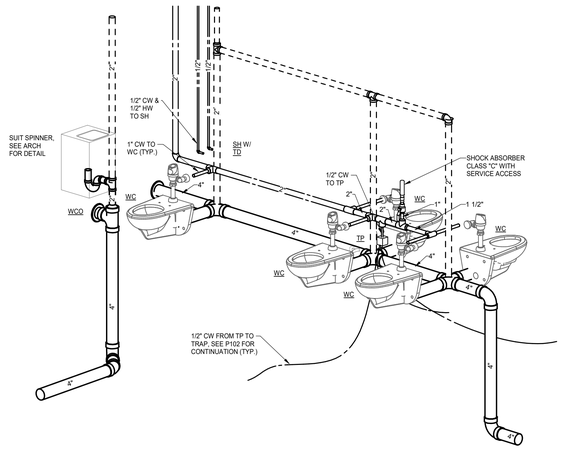
SCALE: NONE



3 P900 PLUMBING ISOMETRIC
SCALE: NONE

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Key Plan

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CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

PLUMBING ISOMETRICS

P900

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THE SQUARES ABOVE ARE COLOR WITH BLACK AND WHITE LETTERS. IF NOT, THE LINE SHOWN ABOVE IS NOT EXACTLY ONE INCH. ADJUST PLOT SETTINGS ACCORDINGLY.

IF NOT TO SCALE, USE GRAPHIC SCALE ONLY

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG. IF THIS LINE IS NOT ONE INCH, ADJUST PLOT SETTINGS ACCORDINGLY.

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GENERAL LEGEND

ABBV.	SYMBOL	DESCRIPTION
G.C.		GENERAL CONTRACTOR
M.C.		MECHANICAL CONTRACTOR
P.C.		PLUMBING CONTRACTOR
E.C.		ELECTRICAL CONTRACTOR
T.C.C.		TEMPERATURE CONTROL CONTRACTOR
F.P.C.		FIRE PROTECTION CONTRACTOR
K.E.C.		KITCHEN EQUIPMENT CONTRACTOR
A.F.F.		ABOVE FINISHED FLOOR
A.F.G.		ABOVE FINISHED GRADE
B.F.F.		BELOW FINISHED FLOOR
B.F.G.		BELOW FINISHED GRADE
N.I.C.		NOT IN CONTRACT
N.C.		NORMALLY CLOSED
N.O.		NORMALLY OPEN
SF		SQUARE FOOTAGE
		EXISTING (DEMOLITION OR REMOVED)
		CONTROL WIRING
AD/AP		ACCESS DOOR/ACCESS PANEL
		DIRECTION OF FLOW IN PIPE
		PITCH PIPE DOWN IN DIRECTION OF ARROW
		PIPE CAP
		GAUGE
		PRESSURE GAUGE WITH COCK
		FLOW METER FITTING
		PIPE UNION
		FLEXIBLE PIPE CONNECTION
		STRAINER WITH BLOWDOWN VALVE
		STRAINER
		CONCENTRIC PIPE REDUCER
		ECCENTRIC PIPE REDUCER
CV		CHECK VALVE
BV		BALANCING VALVE
GV		GATE VALVE
		BALL VALVE
		GLOBE VALVE
		BUTTERFLY VALVE
		3-WAY MANUAL VALVE
		MANUAL AIR VENT
		AUTOMATIC AIR VENT
		PRESSURE RELIEF VALVE
P/T		PRESSURE/TEMPERATURE TEST PLUG
TCV		(2 OR 3-WAY) TEMPERATURE CONTROL VALVE
		PIPE ELBOW DOWN
		PIPE ELBOW UP
		TEE OFF BOTTOM OF PIPE
		TEE OFF TOP OF PIPE
		THERMOMETER
	X / XXX	X = SECTION/DETAIL NUMBER XXX = SHEET NUMBER WHERE SECTION/DETAIL IS DRAWN

HVAC LEGEND

ABBV.	SYMBOL	DESCRIPTION
RS	RS	REFRIGERANT SUCTION
RL	RL	REFRIGERANT LIQUID
MCD	M	MOTORIZED CONTROL DAMPER
	B	BACKDRAFT DAMPER
MVD		MANUAL VOLUME DAMPER
FD		FIRE DAMPER
FSD		COMBINATION MOTORIZED FIRE/SMOKE DAMPER
	$	WALL SWITCH
	$PL	WALL SWITCH WITH PILOT LIGHT
	T H	THERMOSTAT / HUMIDISTAT
	T H CO2	TEMPERATURE / HUMIDITY / CARBON DIOXIDE SENSOR
	T/CO2 T/H T/H/CO2	COMBINATION TEMPERATURE SENSORS
	EPO	EMERGENCY POWER OFF SWITCH
	OS	OCCUPANCY SENSOR
	S	SMOKE DETECTOR
	P	PRESSURE SENSOR
	MS	MOTOR STARTER
	V	VELOCITY SENSOR
	FMD	ANALOG FLOW MEASURING DEVICE
	VFD	VARIABLE FREQUENCY DRIVE
	#	ANALOG OUTPUT
	#	ANALOG INPUT
	#	DIGITAL OUTPUT
	#	DIGITAL INPUT
	SPT	STATIC PRESSURE TRANSMITTER
	DPT	DIFFERENTIAL PRESSURE TRANSMITTER
		SUPPLY DUCT UP & DOWN
		RETURN/EXHAUST DUCT UP & DOWN
		ROUND SUPPLY DUCT UP & DOWN
		DUCT ELBOW WITH TURNING VANES
		SQUARE TO ROUND TRANSITION
	UP / DN	OFFSET DUCT UP / DOWN IN DIRECTION OF ARROW
		CONICAL SPIN-IN FITTING WITH MANUAL VOLUME DAMPER
		CONICAL SPIN-IN FITTING WITHOUT MANUAL VOLUME DAMPER
		45° TAKEOFF
		STANDARD RADIUS ELBOW
	10x8	NEW RECTANGULAR DUCTWORK - WIDTH x DEPTH
	10"ø	NEW ROUND DUCTWORK - DIAMETER
	10x8ø	NEW OVAL DUCTWORK - WIDTH / DEPTH
CD		CEILING DIFFUSER (FOUR WAY THROW PATTERN)
CD	EQUALS	CEILING DIFFUSER WITH FLOW PATTERN INDICATION (TWO WAY)
CD	EQUALS	CEILING DIFFUSER WITH FLOW PATTERN INDICATION (ONE WAY)
CD	EQUALS	CEILING DIFFUSER WITH FLOW PATTERN INDICATION (THREE WAY)
CD	EQUALS	CEILING DIFFUSER WITH FLOW PATTERN INDICATION (TWO WAY)
SD		SLOT DIFFUSER
RG/EG		RETURN OR EXHAUST REGISTER OR GRILLE
RG		RETURN GRILLE WITH SOUND BOOT
VAV		VAV TERMINAL UNIT
		FLEXIBLE DUCTWORK
		AIRFLOW - RETURN/EXHAUST
		AIRFLOW - SUPPLY
SA		SOUND ATTENUATOR

HVAC LEGEND

ABBV.	SYMBOL	DESCRIPTION
RTU		ROOFTOP UNIT
MAU		MAKE-UP AIR UNIT
SF		SUPPLY FAN
EF		EXHAUST FAN
RF		RETURN FAN
UH		UNIT HEATER
FCU		FAN COIL UNIT
P		PUMP
B		BOILER
LVR		LOUVER
SD		SLOT DIFFUSER
SR		SUPPLY REGISTER
SG		SUPPLY GRILLE
FG		FLOOR GRILLE
RR		RETURN REGISTER
RG		RETURN GRILLE
ER		EXHAUST REGISTER
EG		EXHAUST GRILLE
TG		TRANSFER GRILLE
SA		SUPPLY AIR
RA		RETURN AIR
EA		EXHAUST AIR
OA		OUTSIDE AIR
TA		TRANSFER AIR
MA		MAKE-UP AIR

MECHANICAL GENERAL NOTES

1. THE MECHANICAL CONTRACTOR SHALL INSPECT SITE TO BECOME FAMILIAR WITH THE SCOPE OF THE WORK. THESE DOCUMENTS DO NOT REFLECT AS-BUILT CONDITIONS. ANY DISCREPANCIES BETWEEN THESE DOCUMENTS AND THE ACTUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION PRIOR TO BID PRICING. NO EXTRAS WILL BE ALLOWED DUE TO LACK OF KNOWLEDGE OF THE EXISTING CONDITIONS.
2. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL ABOVE CEILING EQUIPMENT, DUCTWORK AND CEILING MOUNTED AIR DEVICES WITH EXISTING ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND MECHANICAL CONDITIONS. APPROXIMATE LOCATIONS OF NEW WORK ARE SHOWN AND SHOULD BE FOLLOWED AS CLOSELY AS EXISTING CONDITIONS WILL ALLOW.
3. MECHANICAL WORK SHALL COMPLY WITH ALL APPLICABLE CODES. VERIFY ALL REQUIREMENTS PRIOR TO SUBMITTING BID OR COMMENCING WORK.
4. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL COORDINATION OR MODIFICATIONS THAT MAY BE REQUIRED DUE TO THE USE OR INSTALLATION OF EQUIPMENT OTHER THAN THAT OF THE BASIS OF DESIGN MANUFACTURERS LISTED ON THE DRAWINGS.
5. THE MECHANICAL SYSTEM SHOWN SHALL BE ROUTED AS HIGH AS POSSIBLE. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING REQUIREMENTS WITH ALL TRADES PRIOR TO CONSTRUCTION.
6. WHERE CEILING SPACE IS TO BE USED AS A RETURN AIR PLENUM, COMPLY WITH ALL APPLICABLE CODES. ALL MATERIALS WITHIN THE CEILING PLENUM WILL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50.
7. WHERE THE CEILING SPACE IS TO BE USED AS A RETURN AIR PLENUM, THE GENERAL AND MECHANICAL CONTRACTORS SHALL VERIFY THAT THE RETURN AIR PATH BACK TO THE UNIT IS OPEN WITH A VELOCITY THROUGH ALL OPENINGS OF 400 FPM OR LESS.
8. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL CEILING AIR DEVICES AND ACCESS PANELS. OBTAIN CLARIFICATION FROM THE ARCHITECT, IF EXACT LOCATIONS ARE NOT SHOWN.
9. REFER TO THE ARCHITECTURAL DRAWINGS FOR ROOFING DETAILS SPECIFIC TO THE PROJECT.
10. THE MECHANICAL CONTRACTOR SHALL COORDINATE THERMOSTAT, SENSOR, AND SWITCH LOCATIONS WITH ARCHITECT/ENGINEER PRIOR TO INSTALLATION. ALL THERMOSTATS, SENSORS, AND SWITCHES SHALL BE LOCATED 48" A.F.F. UNLESS INDICATED OTHERWISE.
11. COORDINATE THERMOSTAT, SENSOR, AND SWITCH LOCATIONS WITH EXISTING CONDITIONS AND THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION. WHERE POSSIBLE MATCH LOCATION OF PREVIOUS CONTROL. PROVIDE WIRE MOLD TO CONCEAL EXPOSED CONTROL WIRING AND TUBING. COLOR TO BE SELECTED BY THE ARCHITECT.
12. BALANCE AIR AND WATER SYSTEMS TO THE QUANTITIES SHOWN AND SUBMIT BALANCE REPORT(S) TO THE ARCHITECT/ENGINEER FOR REVIEW.
13. PORTIONS OF THIS BUILDING WILL BE OCCUPIED DURING THIS CONSTRUCTION PROJECT. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE SCHEDULING OF THEIR WORK WITH THE GENERAL CONTRACTOR. CLEAN UP AT THE END OF EACH DAY.
14. ACCESS DOORS SHALL BE INSTALLED IN ORDER TO PROVIDE ACCESS TO MECHANICAL SYSTEMS LOCATED ABOVE INACCESSIBLE CEILINGS, WHETHER OR NOT SHOWN ON THE DRAWINGS. ACCESS DOORS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR. ACCESS DOOR LOCATIONS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. PROVIDE 12"x12" ACCESS DOORS FOR HAND ACCESS AND 24"x24" ACCESS DOORS FOR HEAD AND SHOULDER ACCESS.

MECHANICAL HVAC NOTES

1. DUCTWORK DIMENSIONS LISTED ON THE DRAWINGS ARE CLEAR, INSIDE DIMENSIONS.
2. FLEXIBLE DUCTWORK SHALL BE INSULATED AND SHALL BE THE SAME SIZE AS THE NECK OF THE AIR DEVICE. FLEXIBLE DUCTWORK SHALL NOT EXCEED 8'-0" IN LENGTH. PROVIDE WRAPPED RIGID ROUND DUCTWORK FOR TAKEOFFS IN EXCESS OF 8'-0".
3. UNLESS SHOWN OTHERWISE, THE INLET DUCTWORK TO FAN TERMINAL UNITS AND VARIABLE AIR VOLUME TERMINAL UNITS SHALL BE THE FULL SIZE OF THE UNIT CONNECTION.
4. PROVIDE DUCT TRANSITIONS FROM EQUIPMENT CONNECTIONS TO DUCT SIZES AS SHOWN.
5. PROVIDE A FLEXIBLE CONNECTION TO THE INTAKE AND DISCHARGE OF ALL MECHANICAL EQUIPMENT HAVING ROTATING PARTS. FLEXIBLE CONNECTION SHALL COMPLY WITH ALL APPLICABLE CODES.
6. ALL DUCTWORK SHALL BE A MINIMUM 26 GAUGE SHEETMETAL, OR AS REQUIRED BY ALL APPLICABLE CODES. ALL DUCTWORK CROSSING RATED CORRIDORS SHALL BE A MINIMUM 24 GAUGE SHEETMETAL. MEET OR EXCEED SMACNA STANDARDS.
7. ALL SUPPLY, RETURN AND EXHAUST DUCTWORK SHALL BE SEALED AIRTIGHT WITH DUCT SEALANT (SMACNA SEAL CLASS "A") ALONG ALL SEAMS AND JOINTS.
8. ALL RECTANGULAR SUPPLY, RETURN AND TRANSFER DUCTWORK SHALL BE SHEETMETAL WITH DUCT LINER. REFER TO SPECIFICATION 233000 FOR REQUIREMENTS.
9. ALL EXHAUST DUCTWORK SHALL BE UNLINED SHEETMETAL, UNLESS NOTED OTHERWISE.
10. ALL DUCTWORK SERVING CHEMICAL STORAGE ROOMS SHALL BE CONSTRUCTED OF SCHEDULE 40 CPVC PIPE. PVC COATED STEEL DUCTWORK IS NOT ACCEPTABLE.
11. ALL DUCTWORK SERVING FUME HOODS SHALL BE CONSTRUCTED OF PVC COATED GALVANIZED STEEL DUCTWORK.
12. ALL EXPOSED SPIRAL ROUND DUCTWORK SHALL BE SHEETMETAL WITH DUCT LINER. REFER TO SPECIFICATION 233000 FOR REQUIREMENTS.
13. ALL CONCEALED SPIRAL ROUND DUCTWORK SHALL BE SHEETMETAL WITH EXTERNAL DUCT INSULATION. REFER TO SPECIFICATION 230700 FOR REQUIREMENTS.
14. ALL UNLINED DUCTWORK THAT IS VISIBLE THROUGH THE AIR DEVICE SHALL BE PAINTED FLAT BLACK.
15. MAINTAIN A MINIMUM 10'-0" SEPARATION FROM OUTSIDE AIR INTAKES TO EXHAUST TERMINATIONS AND FLUE OUTLETS.
16. MAINTAIN A MINIMUM OF 15'-0" FROM OUTSIDE AIR INTAKES TO PLUMBING VENTS.
17. MAINTAIN A MINIMUM 3'-0" SEPARATION FROM EXHAUST TERMINATIONS TO OPERABLE WINDOWS AND DOORS.
18. COORDINATE LOUVER, WALL CAP AND AIR DEVICE PLACEMENT WITH BRICK OR BLOCK COURSING WHERE APPLICABLE.
19. COORDINATE THE LOCATION AND ELEVATION OF ALL EXPOSED DUCTWORK WITH THE ARCHITECT AT THE JOB SITE.
20. ALL EXPOSED DUCTWORK SHALL BE FREE OF IMPERFECTIONS AND DAMAGE. SEAL EXPOSED DUCTWORK IN A NEAT WORKMANSHIP LIKE MANNER SUITABLE FOR PAINTING.
21. THE GENERAL CONTRACTOR SHALL PAINT ALL EXPOSED DUCTWORK, FITTINGS, ETC. IN ACCORDANCE WITH THE ARCHITECTURAL SPECIFICATION.
22. ALL EXPOSED DUCTWORK THAT IS SPECIFIED TO BE PAINTED SHALL BE PROVIDED WITH A PAINT-LOCK PRIMER TO PREPARE THE DUCT FOR FIELD PAINTING.
23. CUT ROOF MOUNTED AIR HANDLING EQUIPMENT DUCT OPENINGS THROUGH THE ROOF 1/2" LARGER THAN THE OUTSIDE DIMENSION OF THE SUPPLY AND RETURN DUCTS. SEAL THE OPENINGS AROUND THE DUCTS.
24. COMPLETELY FILL ALL ROOF MOUNTED AIR HANDLING EQUIPMENT ROOF CURBS WITH UNFACED BATT INSULATION. LAYER INSULATION IN A NEAT WORKMANSHIP LIKE MANNER.
25. SPIN-IN FITTINGS SERVING GRILLES AND DIFFUSERS SHALL BE CONICAL WITH MANUAL VOLUME DAMPERS, UNLESS THE AIR DEVICE IS PROVIDED WITH AN OPPOSED BLADE DAMPER.
26. SPIN-IN FITTINGS SERVING VAV TERMINALS SHALL BE CONICAL WITHOUT MANUAL VOLUME DAMPERS.
27. RECTANGULAR BRANCH DUCT TAKEOFFS SHALL HAVE 45° TAKEOFFS AND ROUND DUCT TAKEOFFS SHALL BE CONICAL.
28. ALL ELBOWS, BOTH HORIZONTAL AND VERTICAL, SHALL BE LONG RADIUS ELBOWS WHEREVER POSSIBLE OR SHALL HAVE TURNING VANES UNLESS SHOWN OTHERWISE.
29. ALL OUTDOOR AND ROOF MOUNTED DUCTWORK SHALL BE PROVIDED WITH DUCT LINER AND EXTERNAL DUCT INSULATION TO MEET A TOTAL INSULATION VALUE OF R-12, REFER TO SPECIFICATION 23 0700 FOR REQUIREMENTS. PROVIDE AN ALUMINUM ALL WEATHER JACKETING. SLOPE TOP OF INSULATION TO PREVENT WATER PONDING.
30. 12"x12" ACCESS DOORS SHALL BE PROVIDED FOR ALL MANUAL VOLUME DAMPERS LOCATED ABOVE GYPSUM BOARD CEILINGS. ALL FINAL ACCESS DOOR LOCATIONS SHALL BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
31. 24"x24" ACCESS DOORS SHALL BE PROVIDED FOR ALL VARIABLE AIR VOLUME TERMINAL UNITS AND HEATING COILS LOCATED ABOVE GYPSUM BOARD CEILINGS. ALL FINAL ACCESS DOOR LOCATIONS SHALL BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
32. ALL JOB SITE DUCTWORK PRIOR TO INSTALLATION SHALL BE COVERED AND PROTECTED FROM DIRT, DUST, AND DAMAGE PER SMACNA STANDARDS.
33. ALL NEW AND REPLACEMENT ROOF MOUNTED EQUIPMENT SHALL BE LOCATED AT LEAST 10'-0" FROM THE EDGE OF THE ROOF. THE GENERAL AND MECHANICAL CONTRACTOR SHALL VERIFY AND CONFIRM THE ACTUAL INSTALLED LOCATIONS OF ALL NEW AND REPLACEMENT ROOF MOUNTED EQUIPMENT. IF THIS EQUIPMENT IS INSTALLED WITHIN 10'-0" OF THE ROOF EDGE, THE GENERAL CONTRACTOR SHALL INSTALL AN OSHA APPROVED GUARD RAIL.
34. KITCHEN EXHAUST AIR DUCTWORK SHALL BE CONSTRUCTED OF MATERIALS AS SPECIFIED. THE JOINTS AND SEAMS WILL BE CONTINUOUSLY WELDED OR BRAZED ON THE EXTERNAL SURFACE OF THE DUCTWORK. THE HORIZONTAL DUCTWORK WILL BE SLOPED AT 1/4" PER LINEAL FOOT TOWARD THE KITCHEN HOOD. ANY PORTION OF THE DUCT SYSTEM THAT IS INACCESSIBLE FROM THE DUCT ENTRY OR DISCHAGE SHALL BE PROVIDED WITH CODE APPROVED CLEANOUTS IN THE DUCT AND DUCT ENCLOSURE.
35. PROVIDE A BLANKET WRAP INSULATION ON GREASE DUCT IN ACCORDANCE WITH NFPA 96 AND LOCAL CODES.
36. FLUES FOR BOILERS, WATER HEATERS, AND POOL HEATERS SHALL BE ENGINEERED BY THE FLUE MANUFACTURER, BASED ON ACTUAL EQUIPMENT, AND SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
37. DRYER EXHAUST AIR DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEETMETAL NOT LESS THAN 0.0195 INCHES. INSIDE OF DRYER DUCT SHALL BE SMOOTH WITH NO MECHANICAL FASTENERS PENETRATING THE DUCT. POP RIVETS ARE ACCEPTABLE, VERTICAL RISERS SHALL HAVE AN ACCESSIBLE CLEANOUT. COMPLY WITH MANUFACTURER'S INSTALLATION REQUIREMENTS AND LOCAL CODES.
38. DIVISION 26 SHALL PROVIDE ONE DATA CONNECTION AND ONE 120 VOLT, 20 AMP POWER CONNECTION IN THE ROOM HOUSING THE DDC NETWORK CONTROLLER. DIVISION 26 SHALL PROVIDE ONE DATA CONNECTION AND ONE 120 VOLT, 20 AMP POWER CONNECTION IN THE ROOM HOUSING THE DDC COMPUTER AND ASSOCIATED GRAPHICAL USER INTERFACE, CONTROL SERVER SOFTWARE. COORDINATE EXACT LOCATION FOR THE DDC COMPUTER WITH THE OWNER. DIVISION 26 SHALL PROVIDE MULTIPLE 20 AMP CIRCUITS IN THE CEILING SPACE TO SERVE VAV TERMINAL CONTROL TRANSFORMERS. EXACT CIRCUIT LOCATIONS SHALL BE COORDINATED WITH THE TEMPERATURE CONTROLS CONTRACTOR.
39. IN THE EVENT A VARIABLE FREQUENCY DRIVE IS ADDED TO AN EXISTING PIECE OF HVAC EQUIPMENT, THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THE MAG STARTER HAS BEEN REMOVED. THE MECHANICAL CONTRACTOR SHALL ALSO VERIFY THAT THE MOTOR IS COMPATIBLE FOR OPERATION WITH A VARIABLE FREQUENCY DRIVE. IF THERE IS A CONFLICT WITH THE MOTOR, REPORT THE MOTOR DEFICIENCY IMMEDIATELY TO THE GENERAL CONTRACTOR.

SHEET INDEX

SHEET NUMBER	MECHANICAL SHEET TITLE	SHEET SCALE	SHEET ISSUED
M000	MECHANCIAL COVER SHEET	NONE	X
M101	HVAC FLOOR PLAN	1/8" = 1'-0"	X
M120	HVAC ROOF PLAN	1/8" = 1'-0"	X
M400	HVAC SCHEDULES	NONE	X
M401	HVAC SCHEDULES	NONE	X
M500	HVAC DETAILS	NONE	X
M600	HVAC CONTROL DIAGRAMS	NONE	X
M700	HVAC OUTSIDE AIR CALCULATIONS	NONE	X
M800	HVAC COMMISSIONING	NONE	X
M801	HVAC COMMISSIONING	NONE	X
M802	HVAC COMMISSIONING	NONE	X

MECHANICAL PIPING NOTES

1. HEATING WATER PIPING AND INSULATION: REFER TO SPECIFICATION SECTIONS 23 2000 AND 23 0700 RESPECTIVELY FOR PIPING AND INSULATION REQUIREMENTS.
2. CHILLED WATER PIPING AND INSULATION: REFER TO SPECIFICATION SECTIONS 23 2000 AND 23 0700 RESPECTIVELY FOR PIPING AND INSULATION REQUIREMENTS.
3. GAS PIPING: REFER TO SPECIFICATION SECTION 22 1000 FOR GAS PIPING REQUIREMENTS.
4. REFRIGERANT PIPING AND INSULATION: REFER TO SPECIFICATION SECTIONS 23 2000 AND 23 0700 RESPECTIVELY FOR PIPING AND INSULATION REQUIREMENTS.
5. THE AIR-COOLED CONDENSING UNIT SUPPLIER SHALL SUBMIT A MANUFACTURER APPROVED REFRIGERANT PIPING DIAGRAM SPECIFIC TO THIS PROJECT. CLEARLY IDENTIFY PIPING LENGTHS, DROPS, RISES, SIZES, VALVES, AND SPECIALTIES.
6. INSTALL ALL VALVES ABOVE ACCESSIBLE CEILINGS. PROVIDE 12"x12" ACCESS DOORS FOR ALL VALVES ABOVE GYPSUM CEILINGS. ALL FINAL ACCESS DOOR LOCATIONS SHALL BE APPROVED BY THE ARCHITECT DURING COORDINATED SHOP DRAWING REVIEW.
7. ALL PIPING SHOWN IS CONCEALED ABOVE CEILINGS UNLESS INDICATED OTHERWISE.
8. REFER TO VAV TERMINAL UNIT SCHEDULE FOR COIL DESIGNATIONS REQUIRING 3-WAY VALVES.
9. PROVIDE PIPING SLEEVES AT ALL WALL PENETRATIONS. REFER TO SPECIFICATION FOR EXACT REQUIREMENTS.
10. PROVIDE ISOLATION/SHUT-OFF VALVES AT ALL PIPING BRANCHES THAT HAVE TWO OR MORE HYDRONIC DEVICES.
11. PIPING CONTRACTOR SHALL SUBMIT IN ADDITION TO THE COORDINATED SHOP DRAWINGS, AN INDIVIDUAL SHOP DRAWING SHOWING ALL MEANS OF HYDRONIC SYSTEM EXPANSION (HEATING AND CHILLED WATER SYSTEMS). CONTRACTOR CAN USE EXPANSION LOOPS, ANCHORS AND ROLLERS, EXPANSION COMPENSATORS, OR A COMBINATION OF BOTH. HYDRONIC EXPANSION LOCATIONS, METHODS, AND EQUIPMENT SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
12. ALL RUN OUT PIPING TO HEATING DEVICES SHALL BE MINIMUM 3/4" UNLESS OTHERWISE NOTED. OR SCHEDULED. ALL RUN OUT PIPING TO HEATING DEVICES SHALL BE A MINIMUM OF 5'-0" IN LENGTH AND SHALL HAVE A MINIMUM OF (5) 90° ELBOWS. WHERE THESE REQUIREMENTS ARE NOT POSSIBLE DUE TO SPACE CONSTRAINTS, FLEXIBLE CONNECTIONS AT THE DEVICE SHALL BE PROVIDED.

MECHANICAL NATATORIUM NOTES

1. POOL HEATING WATER PIPING SHALL BE SCHEDULE 80 CPVC WITH 1-1/2" FIBERGLASS PIPE INSULATION. PROVIDE FIRE RATED GYPSUM BOARD ENCLOSURE AROUND ANY PIPING LOCATED WITHIN RETURN AIR PLENUMS ABOVE THE CEILING.
2. ALL DUCTWORK SERVING CHEMICAL STORAGE ROOMS SHALL BE CONSTRUCTED OF SCHEDULE 40 CPVC PIPE. PVC COATED STEEL DUCTWORK IS NOT ACCEPTABLE.

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CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
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MECHANCIAL COVER SHEET

M000

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAGE SIZE

plot to .pdf in color for paper plots, use black & white whenever possible to save printing costs

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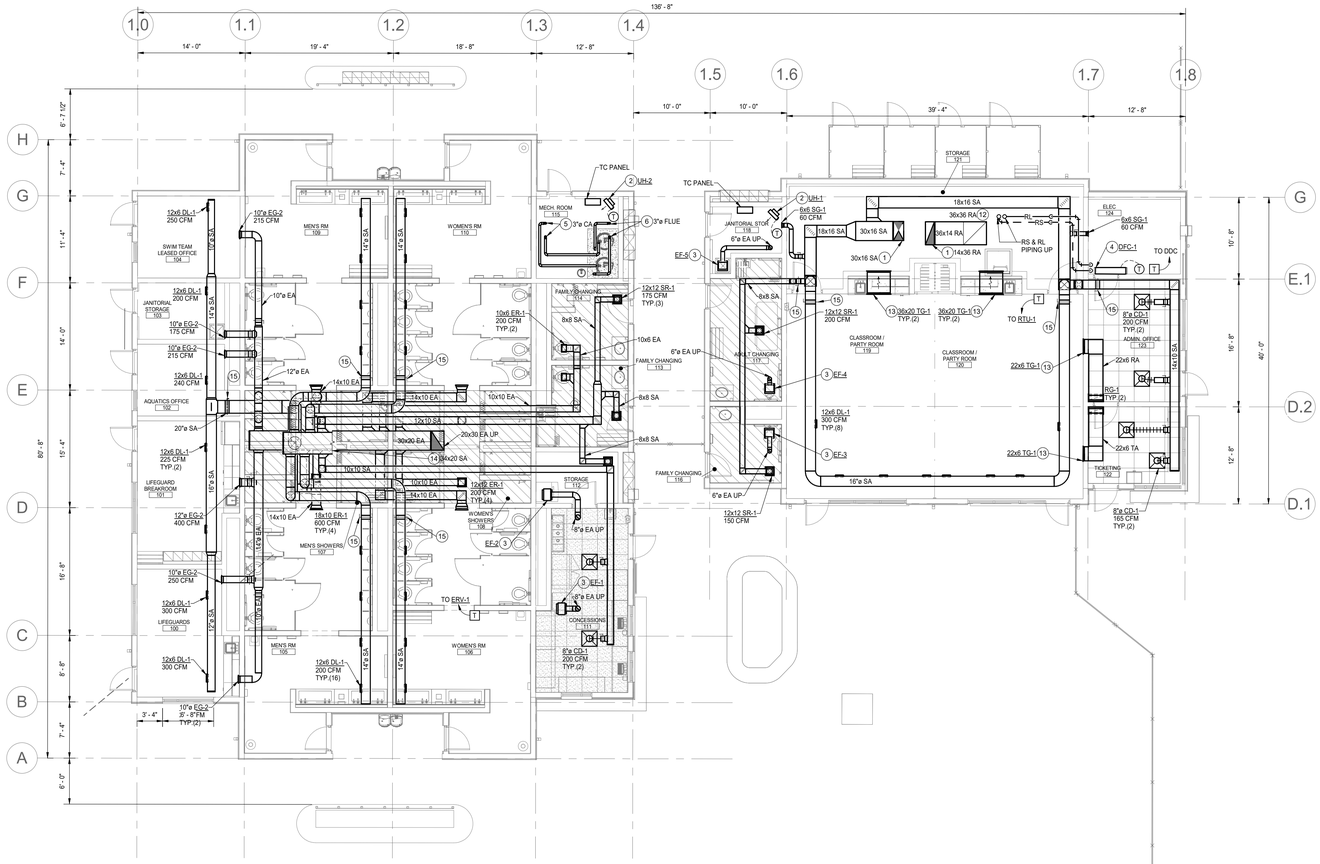
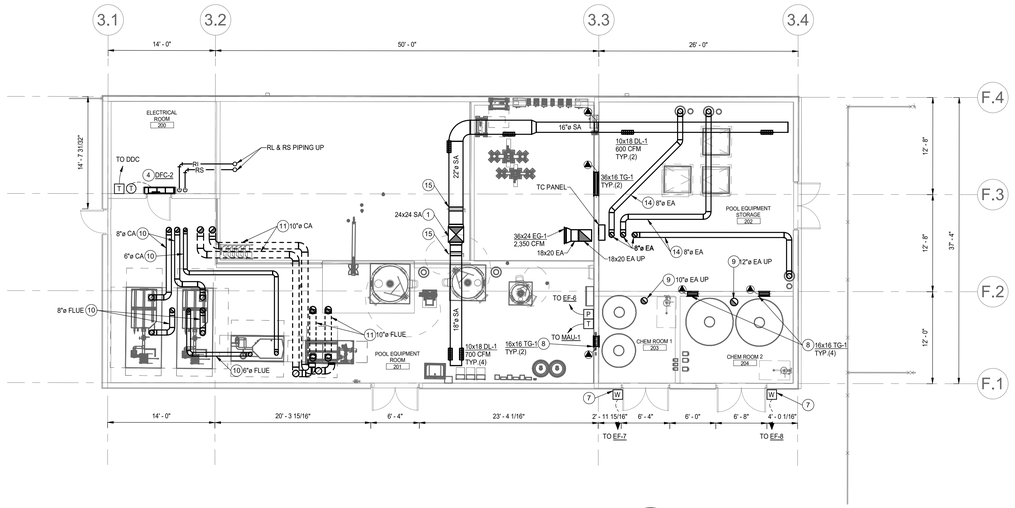


FIRST FLOOR HVAC PLAN

SCALE: 1/8" = 1'-0"



MECHANICAL ROOM HVAC PLAN

SCALE: 1/8" = 1'-0"

FIRST FLOOR HVAC KEYNOTES:

1. DUCTWORK OF SIZE AND TYPE INDICATED UP THROUGH ROOF TO MECHANICAL EQUIPMENT INDICATED. PROVIDE TRANSITION TO EQUIPMENT CONNECTION IS RISE AND PROVIDE A FLEXIBLE CONNECTION.
2. UNIT HEATER WITH ELECTRIC COIL SUPPORTED FROM THE STRUCTURE ABOVE. REFER TO SCHEDULES FOR SIZE AND CAPACITIES.
3. CEILING EXHAUST FAN. REFER TO DETAIL. REFER TO SCHEDULE.
4. DUCTLESS SPLIT SYSTEM AS INDICATED. MOUNT INDOOR FAN COIL UNIT ON WALL AND BELOW CEILING WHERE APPLICABLE AND OUTDOOR UNIT ON ROOF. PROVIDE WITH PLENUM RATED CONDENSATE REMOVAL PUMP. ROUTE INDIVIDUALLY INSULATED REFRIGERANT SUCTION AND LIQUID LINES TO ASSOCIATED CONDENSING UNIT. REFER TO PLUMBING DRAWINGS FOR CONDENSATE PIPE ROUTING. REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENTS. REFER TO SCHEDULES FOR CAPACITIES.
5. SCHEDULE 40 PVC COMBUSTION AIR TO WATER HEATER FROM ROOF. REFER TO ROOF HAVC PLAN FOR CONTINUATION.
6. SCHEDULE 40 CPVC FLUE UP FROM WATER HEATER THROUGH ROOF. REFER TO ROOF HVAC PLAN FOR CONTINUATION.
7. CHEMICAL ROOM EXHAUST FAN WARNING PANEL WITH LIGHT. SET SIGN 5'-0" AFF. REFER TO DETAIL. FAN TO BE ENERGIZED CONTINUOUS 24/7.
8. PROVIDE A TRANSFER GRILLE ON THE CHEMICAL ROOM SIDE OF WALL AND A STAINLESS STEEL FIRE DAMPER THROUGH WALL. DAMPER ACCESS SHALL BE ON THE PUMP PIT OR INTERIOR STORAGE ROOM SIDE OF WALL. GRILLE SHALL BE SET BELOW THE CEILING BUT AS HIGH AS POSSIBLE.
9. DUCTWORK FROM CHEMICAL ROOM EXHAUST FAN LOCATED ON ROOF. EXTEND 10"ø CPVC DOWN WITH CPVC MANUAL VOLUME DAMPER INSTALLED IN AN ACCESSIBLE LOCATION. TERMINATE WITH A 12" LENGTH OF 12"ø CPVC PIPE TO 6" AFF. LEAVE DUCT OPEN TO THE SPACE WITH NO INLET GRILLE OR SCREEN. SUPPORT FROM WALL WITH ALUMINUM, PLASTIC OR EPOXY COATED SUPPORTS.
10. SINGLE WALL GALVANIZED COMBUSTION AIR DUCTWORK AND AL294C FLUE OF SIZE INDICATED FROM POOL HEATER UP THROUGH ROOF. DO NOT PROVIDE ANY DUCTWORK THAT IS ANGLED LESS THAN 45° FROM HORIZONTAL. VERIFY SIZING, MATERIAL, AND ROUTING REQUIREMENTS WITH SUCCESSFUL MANUFACTURER. PRIOR TO PURCHASE, SUBMIT VENT SYSTEM ROUTING SCHEMATIC BASED ON FIELD CONDITIONS FOR ENGINEER'S REVIEW. TERMINATE PER MANUFACTURER'S REQUIREMENTS. A MINIMUM OF 30" ABOVE ROOF. LOCATE NO CLOSER THAN 10'-0" FROM ANY COMBUSTION AIR INLET AND BUILDING OR PARAPET WALL. REFER TO DETAIL.
11. FUTURE SINGLE WALL GALVANIZED COMBUSTION AIR DUCTWORK AND AL294C FLUE OF SIZE INDICATED FROM POOL HEATER UP THROUGH ROOF. DO NOT PROVIDE ANY DUCTWORK THAT IS ANGLED LESS THAN 45° FROM HORIZONTAL. VERIFY SIZING, MATERIAL, AND ROUTING REQUIREMENTS WITH SUCCESSFUL MANUFACTURER. PRIOR TO PURCHASE, SUBMIT VENT SYSTEM ROUTING SCHEMATIC BASED ON FIELD CONDITIONS FOR ENGINEER'S REVIEW. TERMINATE PER MANUFACTURER'S REQUIREMENTS. A MINIMUM OF 30" ABOVE ROOF. LOCATE NO CLOSER THAN 10'-0" FROM ANY COMBUSTION AIR INLET AND BUILDING OR PARAPET WALL. REFER TO DETAIL.
12. OPENING IN TOP OF RETURN DUCT OF SIZE INDICATED WITH 1/2" BIRD SCREEN.
13. TRANSFER GRILLE OF SIZE INDICATED. ALIGN WITH BLOCK COURSING. COORDINATE FINAL HEIGH WITH ARCHITECT IN FIELD.
14. DUCTWORK OF SIZE AND TYPE INDICATED THROUGH WALL TO ERV-1 ON ROOF. PROVIDE TRANSITION TO EQUIPMENT CONNECTION IN RISE AND PROVIDE FLEXIBLE CONNECTION.
15. MANUAL VOLUME DAMPER TO ASSIST IN BALANCING THE SYSTEM.

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

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CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
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HVAC FLOOR PLAN

M101

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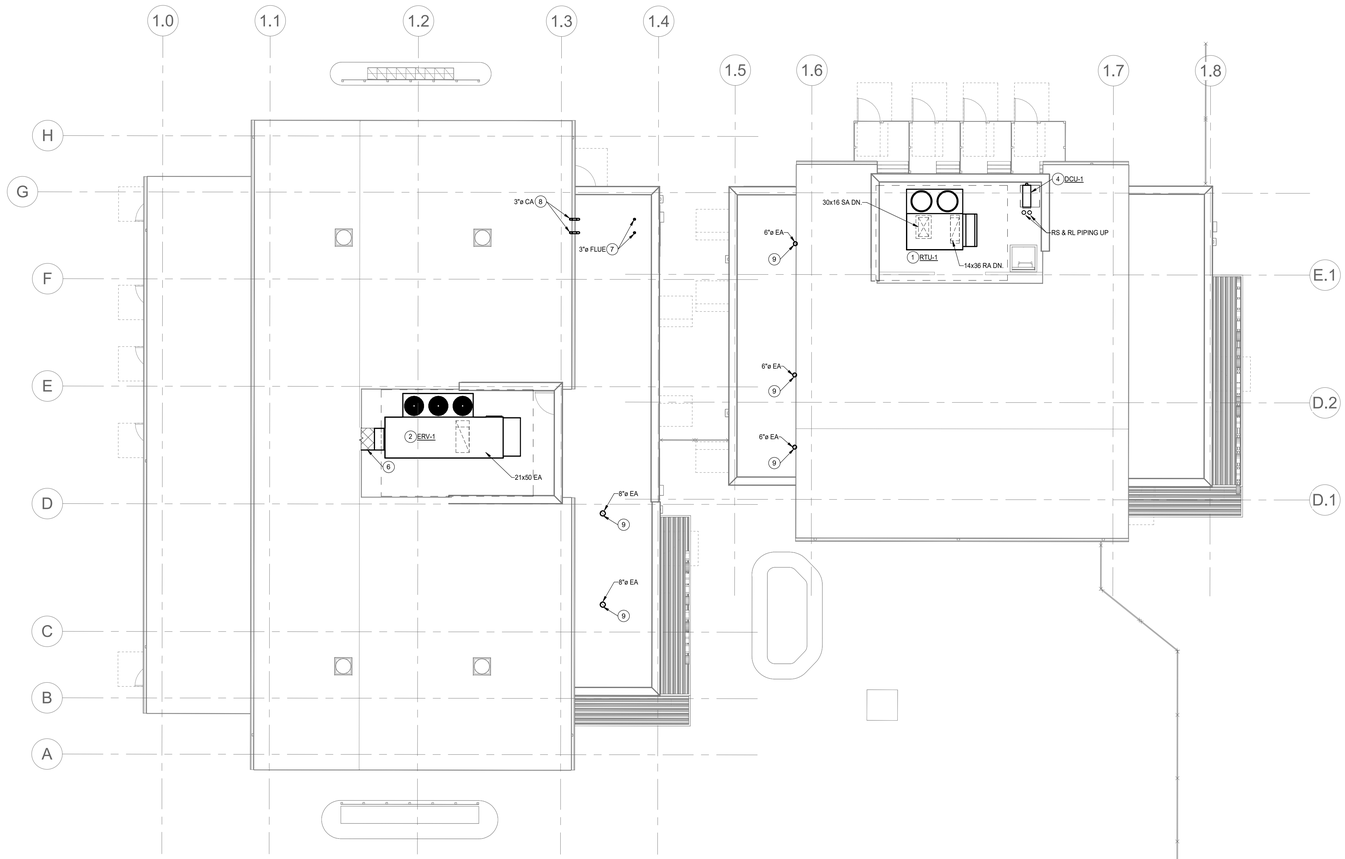
ROOF HVAC KEYNOTES:

1. ROOFTOP UNIT MOUNTED ON 6" CONCRETE HOUSEKEEPING PAD AND ROOF CURB. CONCRETE PAD SHALL EXTEND PAST THE UNIT FOOTPRINT BY 6" ON ALL SIDES. REFER TO SCHEDULES FOR SIZE, CAPACITIES AND ROOF CURB HEIGHT. DASHED LINES REPRESENT UNIT ACCESS / CLEARANCE.
2. ENERGY RECOVERY VENTILATOR MOUNTED ON 6" CONCRETE HOUSEKEEPING PAD AND ROOF CURB. CONCRETE PAD SHALL EXTEND PAST THE UNIT FOOTPRINT BY 6" ON ALL SIDES. REFER TO SCHEDULES FOR SIZE, CAPACITIES AND ROOF CURB HEIGHT. DASHED LINES REPRESENT UNIT ACCESS / CLEARANCE.
3. MAKE-UP AIR UNIT MOUNTED ON 6" CONCRETE HOUSEKEEPING PAD AND ROOF CURB. CONCRETE PAD SHALL EXTEND PAST THE UNIT FOOTPRINT BY 6" ON ALL SIDES. REFER TO SCHEDULES FOR SIZE, CAPACITIES AND ROOF CURB HEIGHT. DASHED LINES REPRESENT UNIT ACCESS / CLEARANCE.
4. REFRIGERANT LIQUID AND REFRIGERANT SUCTION LINE SET DOWN. PROVIDE PIPE SIZES AND MATERIALS AS REQUIRED BY THE MANUFACTURER. INSTALL PER THE MANUFACTURER'S INSTALLATION REQUIREMENTS. REFER TO THE SPECIFICATIONS FOR INSULATION AND JACKETING REQUIREMENTS. REFER TO DETAIL.
5. EXHAUST FAN SET ON MANUFACTURER'S SUPPLIED ROOF CURB. REFER TO DETAIL. REFER TO SCHEDULES FOR SIZE AND CAPACITIES.
6. EXTERIOR DUCTWORK OF SIZE AND TYPE INDICATED. PROVIDE R-12 INSULATION. SLOPE THE TOP OF THE INSULATION TO AVOID WATER PONDING. PROVIDE AN ALUMINUM WEATHER RESISTANT JACKET. PROVIDE ROOF MOUNTED DUCT STANDS. REFER TO DETAIL.
7. SCHEDULE 40 CPVC WATER HEATER FLUE WITH VERTICAL COUPLING TERMINATION AS INDICATED. TERMINATE AT 18" ABOVE ROOF LEVEL. PROVIDE UV RESITANT COATING.
8. SCHEDULE 40 PVC WATER HEATER COMBUSTION AIR WITH 90 DEGREE GOOSENECK. TERMINATE AT 18" ABOVE ROOF LEVEL. PROVIDE UV RESITANT COATING.
9. TERMINATE EXHAUST DUCT WITH VENT CAP A MINIMUM OF 12" ABOVE FINISHED ROOF.



ROOF HVAC PLAN

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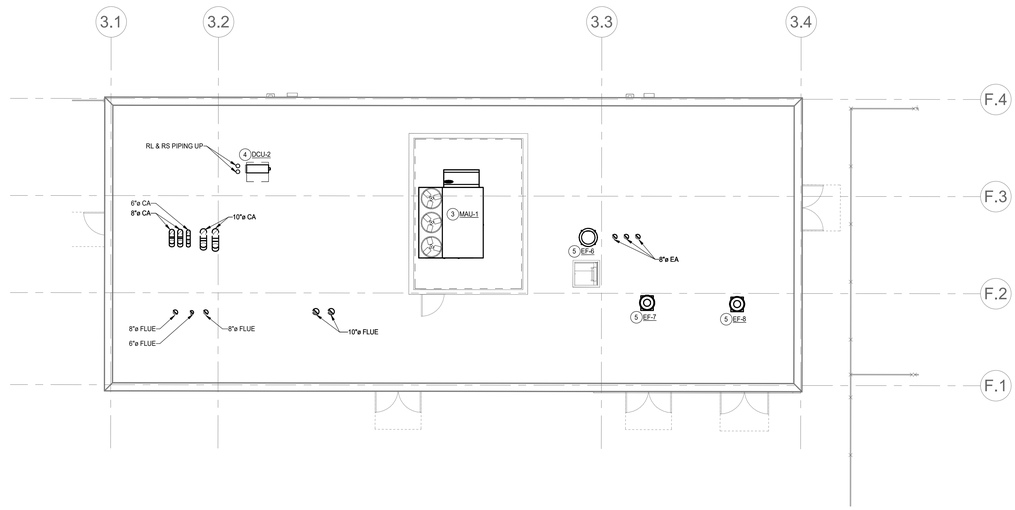

MECHANICAL ROOM ROOF PLAN

SCALE: 1/8" = 1'-0"

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HVAC ROOF PLAN

M120

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ROOFTOP UNIT SCHEDULE (AIR SOURCE HEAT PUMP)

PLAN CODE	MANUF. & MOD. NUM.	THERMOSTAT LOCATION	NOMINAL TONS	EER	HEAT PUMP CAPACITY - COOLING MODE (NOTE: 1) COOL TOTAL MBH	COOL SENS. MBH	AMBIENT °F	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	COOL DAT (DB °F)	HEAT PUMP CAPACITY - HEATING MODE AMBIENT TEMP (DB °F)	COP AHRI (47°F) NOTE: 5	HEAT PUMP MBH	EAT DB (°F)	LAT DB (°F)	BACKUP ELEC. HEAT CAP REQ. (KW)	CAP EMER/AUX (KW)	EAT DB (°F)	LAT DB (°F)	SUPPLY FAN CFM	O.A. CFM	HEATING CFM	ESP	HP (BHP)	EXHAUST FAN CFM	ESP	HP (BHP)	ELECTRICAL V/ø/Hz	MCA	MOCP	MIN SCCR (kAIC)	DIMENSIONS H (IN)	L (IN)	W (IN)	WT (LBS)	REMARKS
RTU-1	AAON RN	CLASSROOM	15	8.0	131.2	127.0	110.0	85.2	63.2	52.1	50.2	55.0	27.0	2.23	116.0	46.8	90.0	20.0	20.0	75.3	92.9	3,600	1,360	2,520	1.5"	5 (2.79)	3,600	-	2 (0.89)	460/3/60	76.0	80.0	NOTE: 5	60"	185"	65"	4,000	NOTE: 1,2,3,4,5,6,7,8,9,10

NOTES:
1. UNIT SELECTED AT A PROJECT ALTITUDE OF 300'.
2. SINGLE ZONE VAV SYSTEM WITH VFDS ON SUPPLY FANS, CAPACITY CONTROL ON COOLING SYSTEM BY EITHER DIGITAL OR VARIABLE SPEED SCROLL COMPRESSORS.
3. BOTTOM SUPPLY AND RETURN CONFIGURATION
4. PROVIDE AIR SOURCE HEAT PUMP.
5. EQUIPMENT AIC VALUE TO BE 65KAIC UNLESS OTHERWISE NOTED IN ELECTRICAL DRAWINGS. REFER TO ELECTRICAL DRAWINGS.
6. UNIT PROVIDED WITH DEMAND CONTROL VENTILATION. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.
7. PROVIDE UNIT WITH 100% DRYBULB ECONOMIZER. PROVIDE ECONOMIZER FAULT PROTECTION AND DIAGNOSTICS.
8. PROVIDE A COOLING COIL LEAVING AIR TEMPERATURE SENSOR.
9. PROVIDE UNIT WITH FACTORY PACKAGED CONTROLS WITH A BACNET IP INTERFACE TO THE BUILDING AUTOMATION SYSTEM.
10. PROVIDE COMBO 2" / 4" FILTER RACK. 2" MERV 8 FILTERS FOR NORMAL OPERATION. ADD 4" CARBON IMPREGNATED MERV-14 FILTER FOR SMOKE EVENTS. CARBON FILTERS WILL BE PROVIDED BY OWNER. AAF AMAIR/C M13, OR EQUAL.

ENERGY RECOVERY UNIT SCHEDULE (AIR SOURCE HEAT PUMP WITH BACKUP ELECTRIC HEAT AND ENERGY RECOVERY WHEEL)

PLAN CODE	MANUF. & MOD. NUM.	SERVICE	NOM. TONS	HEAT PUMP CAPACITY - COOLING CAP. TOTAL MBH	CAP. SENS. MBH	EER AHRI	AMB. TEMP. (°F)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	DAT DB (°F)	HEAT PUMP CAPACITY - HEATING AMBIENT TEMP (DB °F)	COP AHRI (47°F)	HEAT PUMP MBH	EAT DB (°F)	LAT DB (°F)	BACKUP ELEC. HEAT CAP REQ. (KW)	EAT DB (°F)	LAT DB (°F)	ENERGY RECOVERY WHEEL WHEEL TYPE	AIR SOURCE	AIRFLOW (CFM)	WINTER EAT DB (°F)	WINTER EAT WB (°F)	WINTER LAT DB (°F)	WINTER LAT WB (°F)	SUMMER EAT DB (°F)	SUMMER EAT WB (°F)	SUMMER LAT DB (°F)	SUMMER LAT WB (°F)	SUPPLY FAN CFM	ESP	HP (BHP)	EXHAUST FAN CFM	ESP	HP (BHP)	ELECTRICAL V/ø/Hz	MCA	MOCP	MIN SCCR (kAIC)	DIMENSIONS H (IN)	L (IN)	W (IN)	WT (LBS)	REMARKS
ERV-1	AAON	LOCKER ROOMS		182.9	177.9	6.80	110.0	81.0	60.0	52.1	48.1	55.0	30.0	2.10	203.0	57.0	90.0	108.2	30.0	90.0	ENTHALPY	OUTSIDE	5,775	30.0	26.0	57.0	45.0	105.0	68.0	81.0	60.0	5,775	1.5"	7.5 (5.74)	5,775	1.5"	7.5 (5.02)	460/3/60	122.0	125.0	NOTE: 7	60"	199"	65	4,750	1 THROUGH 13
																						EXHAUST	5,775	68.0	53.0	38.0	36.0	72.0	58.0	95.0	66.0															

NOTES:
1. UNIT SELECTED AT PROJECT ALTITUDE OF 300'.
3. HORIZONTAL SUPPLY AND BOTTOM EXHAUST CONFIGURATION
4. PROVIDE AIR SOURCE HEAT PUMP REVERSING VALVE, VARIABLE SPEED COMPRESSORS AND BACKUP AUXILIARY ELECTRIC RESISTANCE HEAT.
5. PROVIDE A COOLING COIL LEAVING AIR TEMPERATURE SENSOR.
6. MOUNT UNIT ON 6" CONCRETE HOUSEKEEPING PAD, 4" LARGER THAN THE UNIT FOOTPRINT IN EACH DIRECTION.
7. EQUIPMENT AIC VALUE TO BE 65KAIC UNLESS OTHERWISE NOTED IN ELECTRICAL DRAWINGS. REFER TO ELECTRICAL DRAWINGS.
8. PROVIDE UNIT WITH FACTORY FABRICATED 18" ROOF CURB SLOPED TO MATCH ROOF. SCHEDULED WEIGHT AND HEIGHT INCLUDES ROOF CURB.
10. PROVIDE 4" MERV 13 FILTERS ON THE EXHAUST AIR BEFORE ENTERING THE ENERGY RECOVERY WHEEL.
11. PROVIDE UNIT WITH HAIL GUARDS ON THE CONDENSER COILS.
12. UNIT SHALL BE PROVIDED WITH SINGLE POINT POWER AND POWERED CONVENIENCE OUTLET.
13. PROVIDE COMBO 2" / 4" FILTER RACK. 2" MERV 8 FILTERS FOR NORMAL OPERATION. ADD 4" CARBON IMPREGNATED MERV-14 FILTER FOR SMOKE EVENTS. CARBON FILTERS WILL BE PROVIDED BY OWNER. AAF AMAIR/C M13, OR EQUAL.

MAKEUP AIR UNIT SCHEDULE (AIR-SOURCE HEAT PUMP WITH BACK-UP GAS FIRED HEATING)

PLAN CODE	MANUFACTURER & MODEL NO.	AREA SERVED	MAXIMUM AIRFLOW (CFM)	MINIMUM AIRFLOW (CFM) (HEATING)	ESP (IN WC)	COOLING CAPACITY NOMINAL TONS	EER	TOTAL MBH	SENS. MBH	AMBIENT (°F)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	DAT DB (°F)	HEAT PUMP CAPACITY - HEATING MODE AMBIENT TEMP (DB °F)	COP AHRI (47°F) NOTE: 5	HEAT PUMP MBH	EAT DB (°F)	LAT DB (°F)	BACK-UP HEATING CAPACITY RATED MBH INPUT @ S.L.	REQUIRED MBH OUTPUT @ 300'	MODULATION TURN DOWN RATIO	EAT (°F)	LAT (°F)	ELECTRICAL HP (BHP)	V/Φ/Hz	MCA	MOCP	MIN SCCR (kAIC)	DIMENSIONS H (IN)	L (IN)	W (IN)	WT. (LBS)	REMARKS
MAU-1	AAON RN	POOL MECHANICAL	4,000	2,000	1.5		9.4	223.8	220.3	110.0	110.0	69.0	58.3	50.2	60.0	30.0	3.59	127.8	30.0	90.0				30.0		5 (2.27)	460/3/60	77.0	80.0	NOTE: 13	60"	111"	64"	3,725	NOTE: 1,2,3,4,5,6,7,8,9,10,11,12,13

NOTES:
1. UNIT SELECTED AT PROJECT ALTITUDE OF 300'.
2. SCHEDULED WEIGHT AND HEIGHT INCLUDES ROOF CURB.
3. PROVIDE WITH INTEGRAL ELECTRICAL DISCONNECT.
4. UNIT SHALL BE PROVIDED WITH SINGLE POINT POWER AND POWERED CONVENIENCE OUTLET.
5. PROVIDE UNIT WITH STAINLESS STEEL HEAT EXCHANGER AND MODULATING GAS HEAT.
6. SINGLE ZONE VAV SYSTEM WITH VFDS ON SUPPLY FANS, CAPACITY CONTROL ON COOLING SYSTEM BY EITHER DIGITAL OR VARIABLE SPEED SCROLL COMPRESSORS.
7. UNIT NATURAL GAS PRESSURE SHALL BE 6" TO 14" W.C.
8. 100% OUTSIDE AIR AND DOWNWARD DISCHARGE ORIENTATION.
9. PROVIDE WITH FACTORY INSTALLED PHASE MONITOR.
10. PROVIDE UNIT WITH FACTORY MOUNTED AND TESTED CONTROLS WITH BACNET INTERFACE TO THE BUILDING AUTOMATION SYSTEM.
11. PROVIDE COMBO 2" / 4" FILTER RACK. 2" MERV 8 FILTERS FOR NORMAL OPERATION. ADD 4" CARBON IMPREGNATED MERV-14 FILTER FOR SMOKE EVENTS. CARBON FILTERS WILL BE PROVIDED BY OWNER. AAF AMAIR/C M13, OR EQUAL.
12. PROVIDE UNIT WITH FACTORY FABRICATED 18" ROOF CURB SLOPED TO MATCH ROOF. SCHEDULED WEIGHT AND HEIGHT INCLUDES ROOF CURB.
13. EQUIPMENT AIC VALUE TO BE 65KAIC UNLESS OTHERWISE NOTED IN ELECTRICAL DRAWINGS. REFER TO ELECTRICAL DRAWINGS.

DUCTLESS SPLIT SYSTEM HEAT PUMP (INDOOR UNIT AND CONDENSING UNIT) SCHEDULE

PLAN CODE	MANUFACTURER & MODEL NUMBER	SERVICE	SUPPLY FAN CFM	ESP (IN WC)	POWER	V/Φ/Hz	DX COOLING COIL TOTAL MBH	SENS. MBH	EAT DB/WB (°F)	DIMENSIONS (IN) L	W	H	OPER. WT. (LBS)	PLAN CODE	MANUFACTURER & MODEL NO.	CAPACITY TONS	MBH	SEER	AMBIENT (°F)	ELECTRICAL MCA (A)	MOP (A)	V/Φ/Hz	DIMENSIONS (IN) W	H	D	WT. (LBS)	REMARKS
DFC-1	MITSUBISHI MSY-GS24	ELECTRICAL / AV	700	-	NOTE: 7	208-230/1/60	24.0	24.0	80.0/67.0	44"	10"	13"	37	DCU-1	MITSUBISHI MUY-GS24	2.0	24.0	21.5	100	18.0	20.0	208-230/1/60	34"	35"	13"	120	NOTES: 1,2,3,4,5,6,7,8,9
DFC-2	MITSUBISHI MSY-GS36	POOL ELECTRICAL	915	-	NOTE: 7	208-230/1/60	36.0	36.0	80.0/67.0	47"	12"	15"	45	DCU-2	MITSUBISHI MUY-GS36	3.0	36.0	18.5	100	19.0	20.0	208-230/1/60	34"	35"	13"	120	NOTES: 1,2,3,4,5,6,7,8,9

NOTES:
1. PROVIDE WITH FACTORY INSTALLED ELECTRIC DISCONNECT SWITCH.
2. LOW AMBIENT CONTROL, CRANKCASE HEATER AND WIND BAFFLE.
3. INTEGRAL MICROPROCESSOR CONTROL SYSTEM.
4. PROVIDE WITH INTEGRAL CONDENSATE PUMP.
5. WASHABLE FILTER.
6. HAIL GUARDS.
7. INDOOR UNIT'S POWER IS FED FROM OUTDOOR UNIT. INDOOR FAN MOTOR POWER REQUIREMENTS ARE (0.6 MCA / 15.0 MOP).
8. PROVIDE WITH MANUFACTURER'S WALL MOUNTED WIRED THERMOSTAT. REMOTE CONTROLLER IS NOT ACCEPTABLE.
9. MOUNT OUTDOOR UNIT ON 6" CONCRETE PAD.

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BARKER RINKER SEACAT ARCHITECTURE

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

HVAC SCHEDULES

M400

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GRILLES, REGISTERS & DIFFUSERS SCHEDULE

PLAN CODE	MANUFACTURER & MODEL NO.	TYPE & SERVICE	NECK SIZE	FACE SIZE	SLOT WIDTH/ SLOTS	VOLUME DAMPER	MATERIAL	MOUNTING TYPE	FINISH	REMARKS
SR-1	PRICE 620	SUPPLY	AS NOTED	NECK + 1.75"	-	YES	ALUMINUM	SURFACE	WHITE	NOTE: 2
SG-1	PRICE 620	SUPPLY	AS NOTED	NECK + 1.75"	-	NO	ALUMINUM	SURFACE	WHITE	NOTE: 2
DL-1	PRICE HCD1	SUPPLY	AS NOTED	NECK + 2.375	-	NO	ALUMINUM	SPIRAL DUCT	BY ARCH	
CD-1	PRICE AMDA	SUPPLY	AS NOTED	24"x24"	-	NO	ALUMINUM	LAY-IN	WHITE	NOTE: 1
RG-1	PRICE PDDR	RETURN	22"x10"	24"x12"	-	NO	ALUMINUM	LAY-IN	WHITE	
TG-1	PRICE 630L	TRANSFER	AS NOTED	NECK + 1.75"	-	NO	ALUMINUM	SURFACE	WHITE	
EG-1	PRICE 630	EXHAUST	NECK+1.75"	AS NOTED	-	NO	ALUMINUM	SURFACE	WHITE	NOTE: 2
EG-2	PRICE RSG-SM	EXHAUST	NECK+2.25"	AS NOTED	-	NO	ALUMINUM	SURFACE	WHITE	
ER-1	PRICE 630	EXHAUST	NECK+1.75"	AS NOTED	-	YES	ALUMINUM	SURFACE	WHITE	NOTE: 2

NOTES:
1. 24"x24" MODULE WITH FULL LOUVERED FACE.
2. PROVIDE WITH HARD LID TRIM KIT FOR GRDS IN GYPSUM CEILING.

FAN SCHEDULE

PLAN CODE	MANUFACTURER & MODEL NO.	TYPE	SERVICE	CFM	MOTOR		DIM. (IN)			WT (LBS)	VIB. ISOL.	CONT.	DAMPER TYPE	REMARKS
					HP	V/Ø/HZ	H	W	L					
EF-1	GREENHECK SP-A510-VG	CEILING	CONCESSIONS 111	500	145 W	115/1/60	15"	18"	15"	50	NOTE: 1	DDC	GBD	NOTE: 3,4
EF-2	GREENHECK SP-A510-VG	CEILING	STORAGE 112	350	77 W	115/60/1	15"	18"	15"	50	NOTE: 1	DDC	GBD	NOTE: 3,4
EF-3	GREENHECK SP-A390-VG	CEILING	FAMILY CHANGING 116	200	37 W	115/60/1	12"	14"	12"	50	NOTE: 1	DDC	GBD	NOTE: 3,4
EF-4	GREENHECK SP-A390-VG	CEILING	ADULT CHANGING 117	300	66 W	115/60/1	12"	14"	12"	50	NOTE: 1	DDC	GBD	NOTE: 3,4
EF-5	GREENHECK SP-A390-VG	CEILING	JANITORIAL STORAGE 118	200	37 W	115/60/1	12"	14"	12"	50	NOTE: 1	DDC	GBD	NOTE: 3,4
EF-6	GREENHECK G-140-VG	ROOF	POOL STORAGE	2,350	1	115/60/1	28"ø		24"	60	NONE	NOTE: 5	24V MTR	NOTE: 2,3,4
EF-7	FAN AMERICA CBI JET 315	CHEMICAL ROOM 1	ACID ROOM	750	1	115/1/60	20"ø		30"	50	NONE	NOTE: 6	NOTE: 7	NOTE: 3,8
EF-8	FAN AMERICA CBI JET 315	CHEMICAL ROOM 2	CHLORINE ROOM	900	1	115/1/60	20"ø		30"	50	NONE	NOTE: 6	NOTE: 7	NOTE: 3,8

NOTES:
1. REFER TO SPECIFICATIONS FOR VIBRATION AND SOUND ISOLATION REQUIREMENTS.
2. PROVIDE 18" INSULATED ROOF CURB.
3. PROVIDE FAN WITH INTEGRAL DISCONNECT.
4. PROVIDE WITH EC MOTOR AND MOTOR MOUNTED POTENTIOMETER DIAL FOR FAN BALANCING.
5. FAN SHALL BE CONTROLLED BY SPACE PRESSURE SENSOR. REFER TO SPECIFICATION 230923 FOR SEQUENCE OF OPERATION.
6. FAN SHALL OPERATE 24/7/365. PROVIDE A CHEMICAL EXHAUST FAN WARNING LIGHT. REFER TO DETAIL.
7. PROVIDE FAN WITH CPVC "ADJUSTABLE" MANUAL VOLUME DAMPER.
8. PROVIDE FAN WITH MANUFACTURER'S CLEAN AIR STACK FITTING AND MVD. REFER TO SECTION.

UNIT HEATER SCHEDULE (ELECTRIC)

PLAN CODE	MANUFACTURER & MODEL NO.	SERVICE	CAP. (MBH)	ELEMENT			CFM	EAT	FLA	MOTOR				CONTROL	REMARKS
				KW	VOLTS	ø				HP	VOLTS	ø	RPM		
UH-1	TRANE UHEC	JANITORIAL STORAGE 190	11.3	3.3	460	3	400	55.0	14.5	1/125	460	3	1,550	NOTE:1	NOTE: 2,3,4
UH-2	TRANE UHEC	MECHANICAL ROOM 195	11.3	3.3	460	3	400	55.0	14.5	1/125	460	3	1,550	NOTE:1	NOTE: 2,3,4

NOTES:
1. WALL MOUNTED 24 VOLT THERMOSTAT PROVIDED BY UNIT HEATER MANUFACTURER.
2. FLA (FULL LOAD AMPS) INCLUDES HEATING ELEMENT AND MOTOR CURRENT REQUIREMENTS.
3. PROVIDE MANUFACTURER'S CEILING MOUNTING BRACKET.
4. PROVIDE WITH HORIZONTAL DISCHARGE.

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Revision Schedule

No.	Date	Description
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Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

HVAC SCHEDULES

M401

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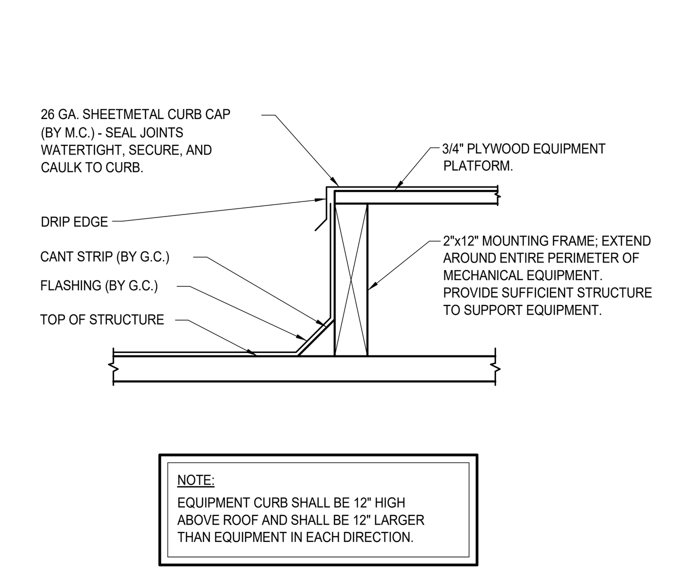
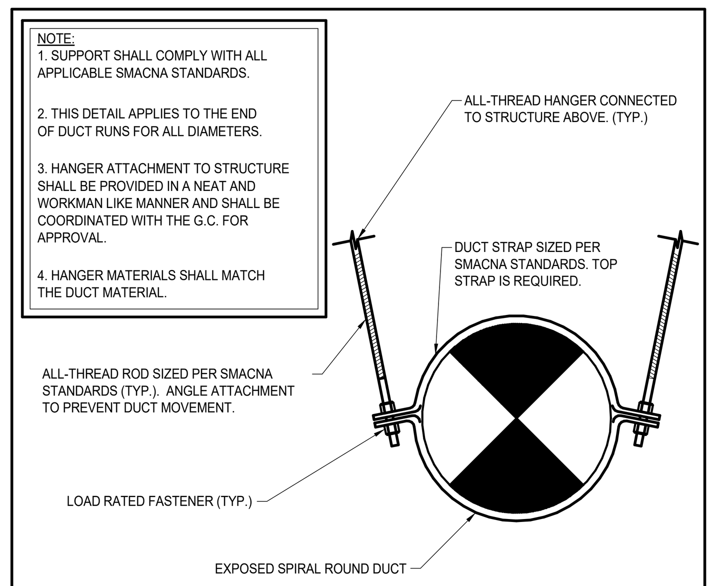
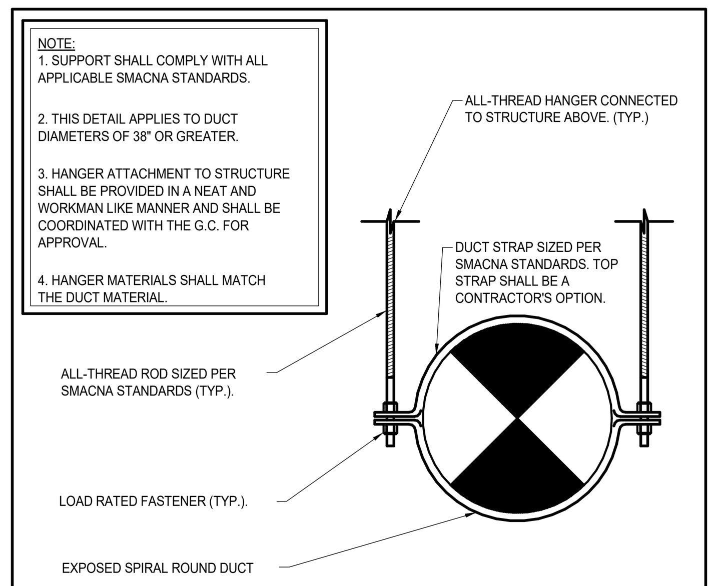


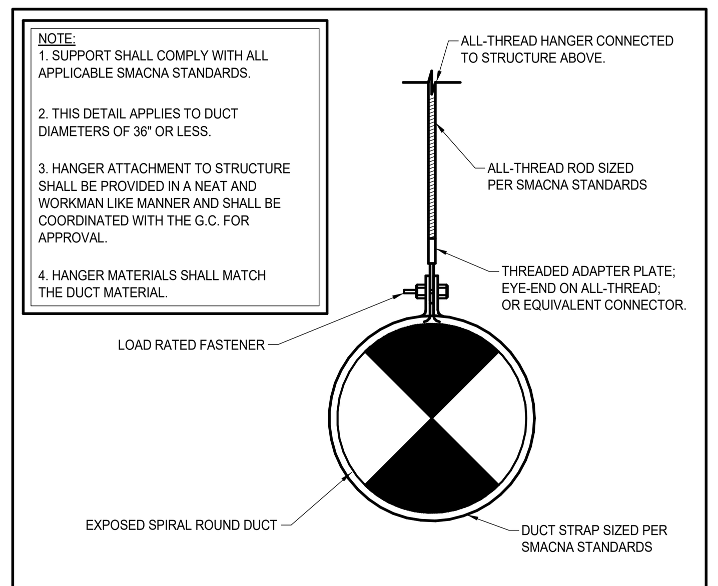
6 / M500 **EQUIPMENT CURB DETAIL**
SCALE: NONE



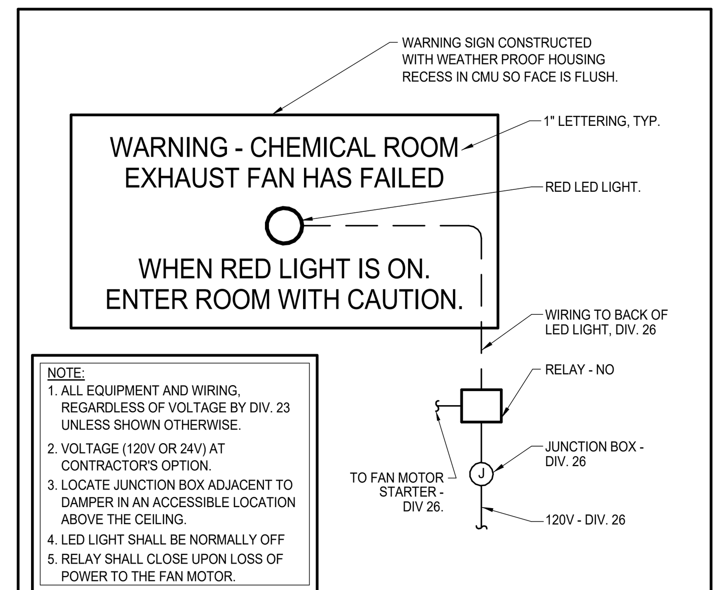
5 / M500 **EXPOSED ROUND DUCT SUPPORT**
SCALE: NONE (END OF DUCT RUN)



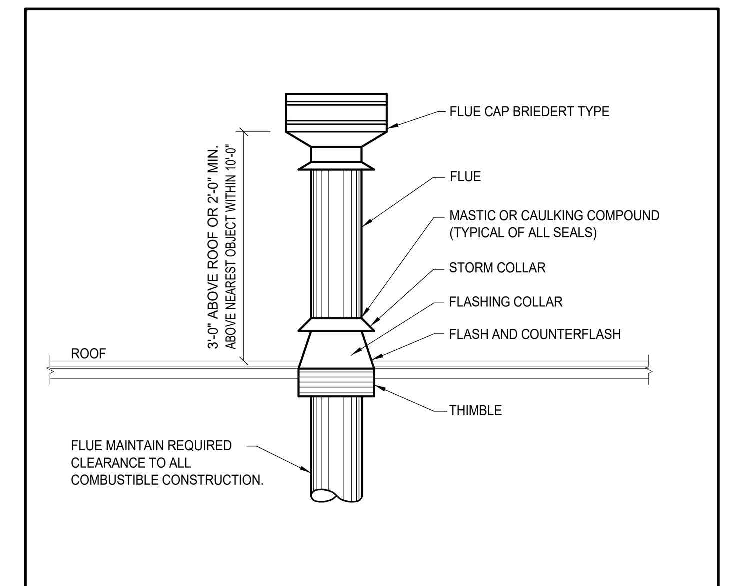
4 / M500 **EXPOSED ROUND DUCT SUPPORT**
SCALE: NONE (EXPOSED SPIRAL DUCT - 38"□ OR GREATER)



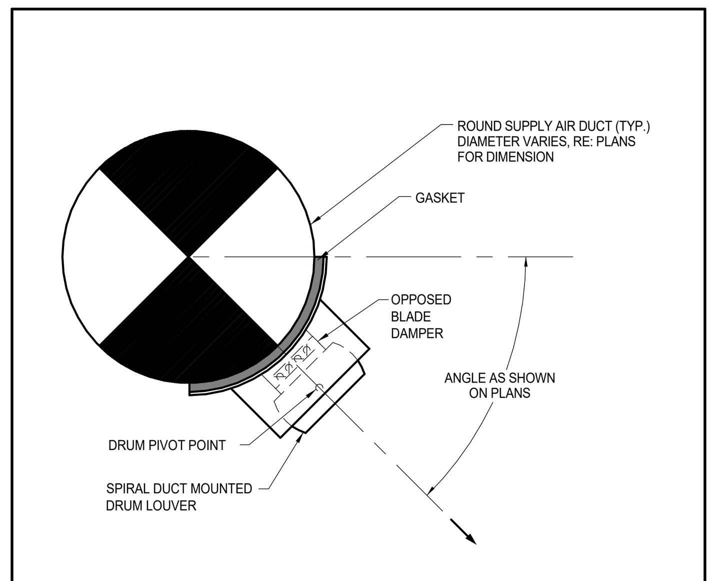
3 / M500 **EXPOSED ROUND DUCT SUPPORT**
SCALE: NONE (EXPOSED SPIRAL DUCT - 36"□ OR LESS)



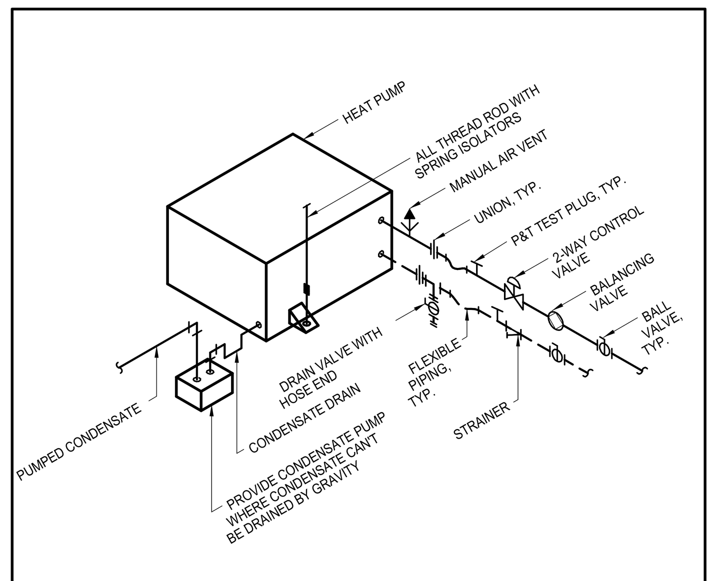
2 / M500 **CHEMICAL EXHAUST FAN WARNING SIGNAL**
NO SCALE



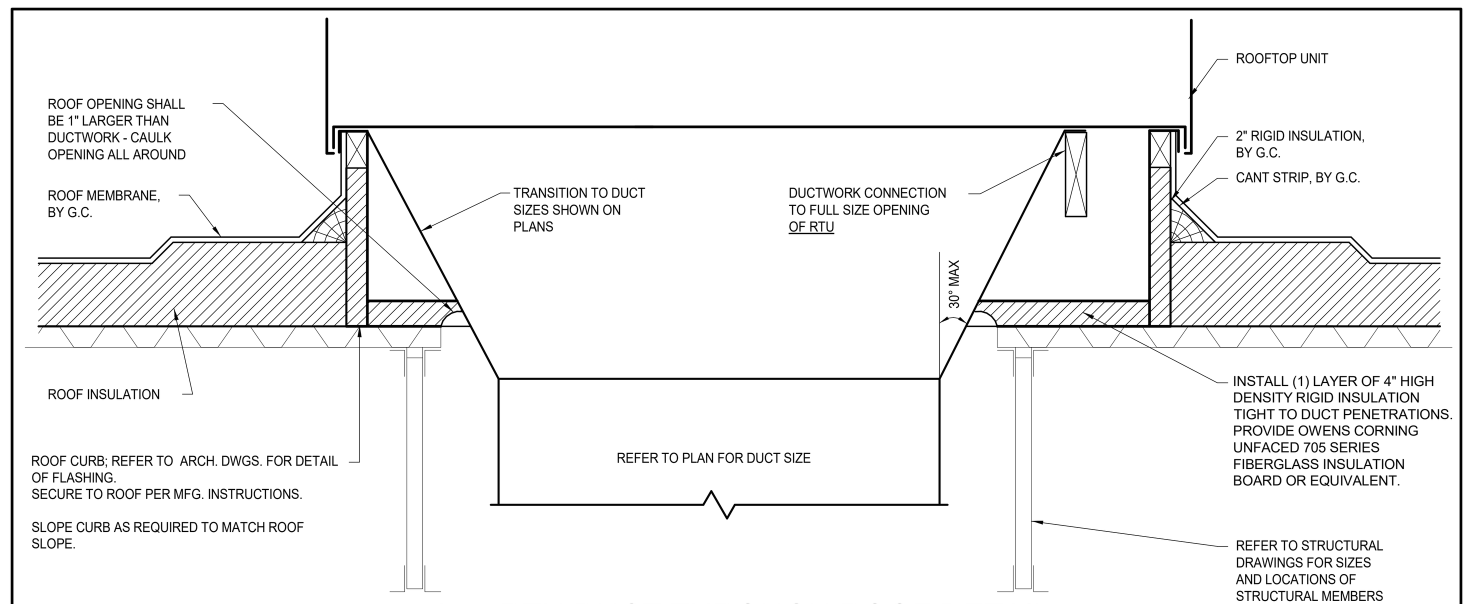
1 / M500 **FLUE THRU ROOF DETAIL**
SCALE: NONE



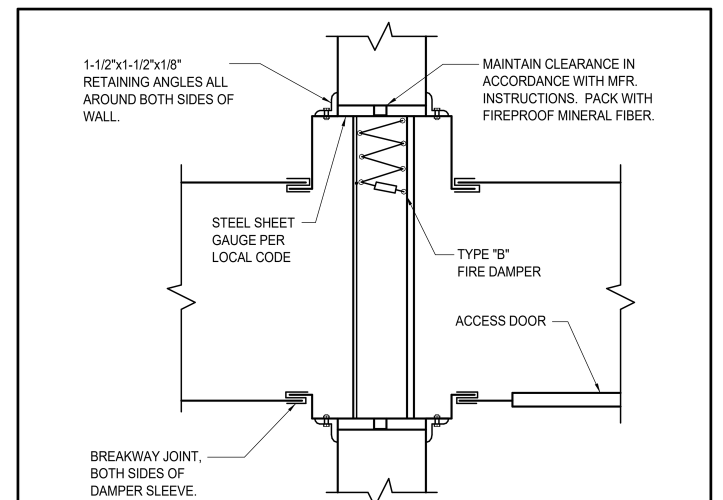
11 / M500 **EXPOSED DUCT DRUM LOUVER DETAIL**
SCALE: NONE



10 / M500 **HEAT PUMP PIPING DETAIL**
SCALE: NONE

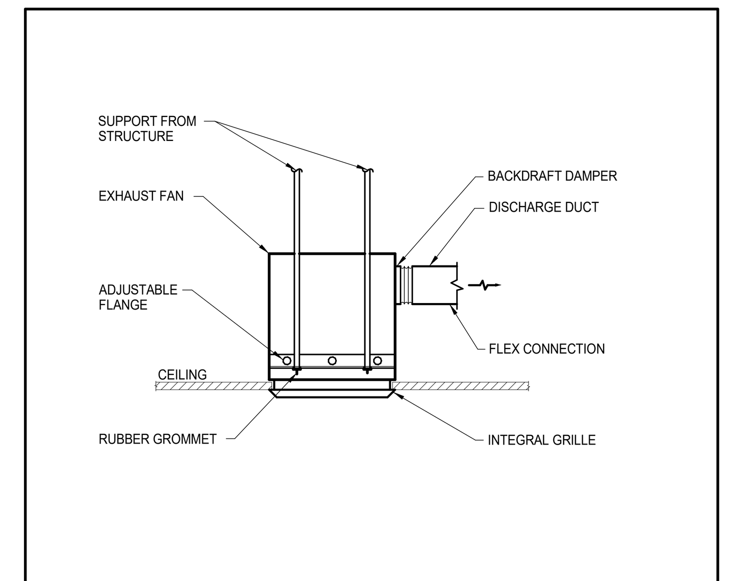


9 / M500 **RTU DUCT THROUGH ROOF DETAIL**
SCALE: NONE

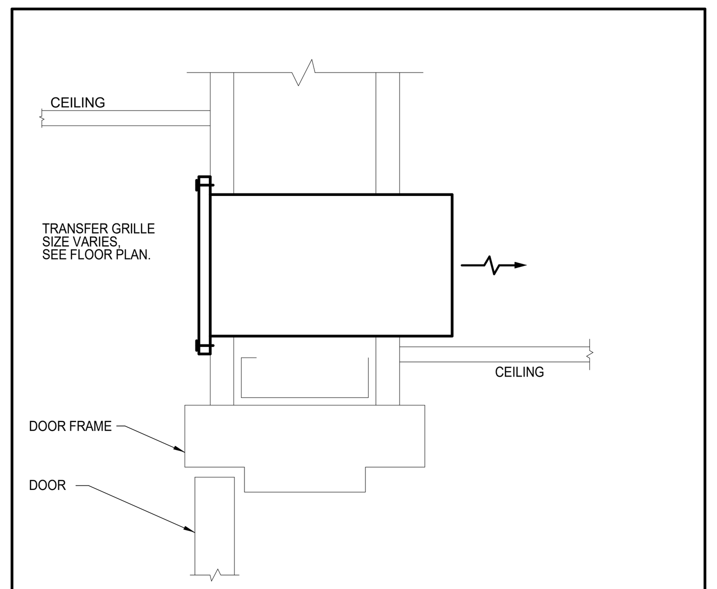


NOTE:
VERTICAL TYPE FIRE DAMPER SHOWN. FOR HORIZONTAL TYPE TURN ASSEMBLY 90° AND PROVIDE WITH SPRING NEGATOR EXTENSION.

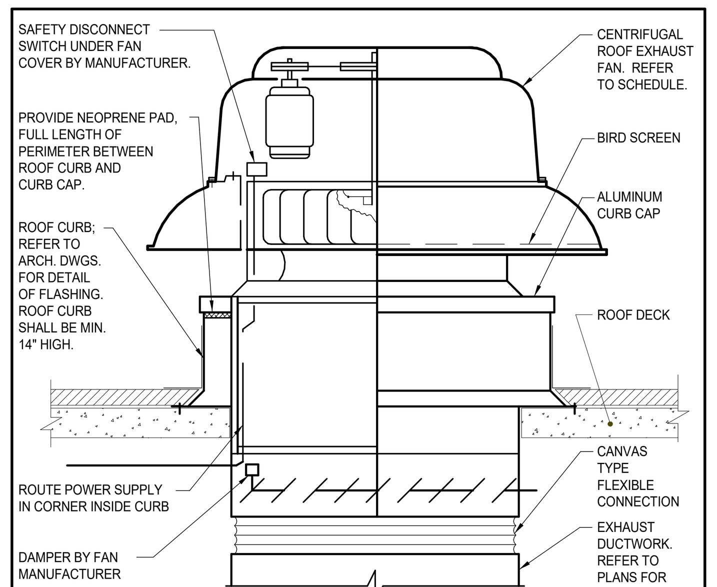
8 / M500 **FIRE DAMPER DETAIL**
SCALE: NONE



7 / M500 **EXHAUST FAN - CEILING**
SCALE: NONE



17 / M500 **TRANSFER BOOT THRU WALL DETAIL**
SCALE: NONE



16 / M500 **ROOF EXHAUST FAN DETAIL**
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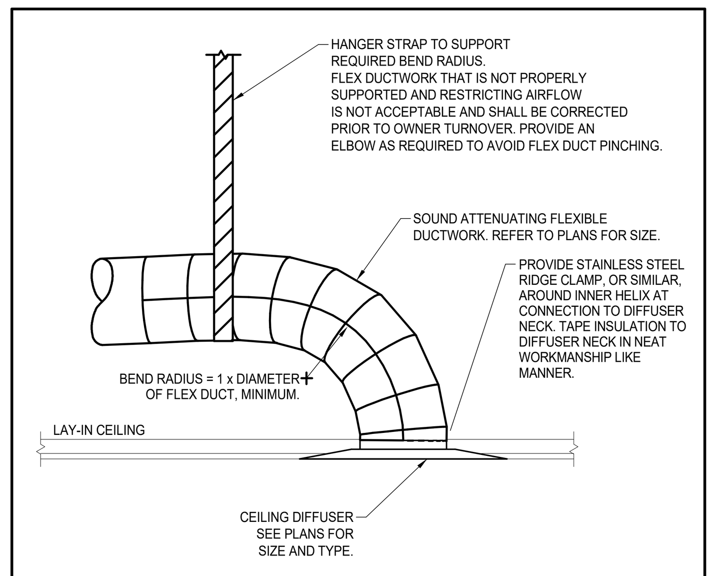

15 / M500 **LAY-IN CEILING DIFFUSER DETAIL**
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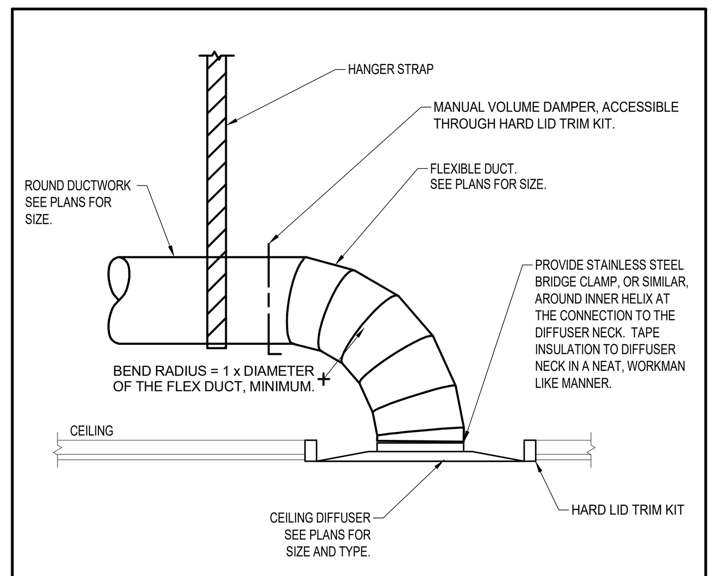
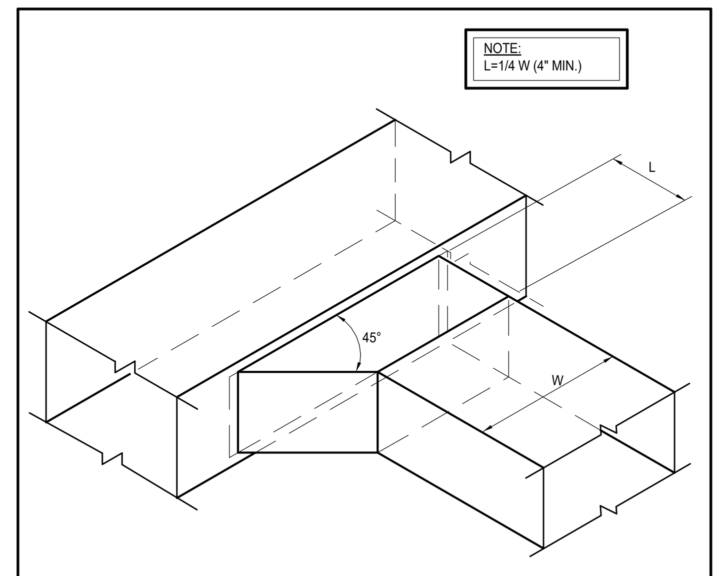
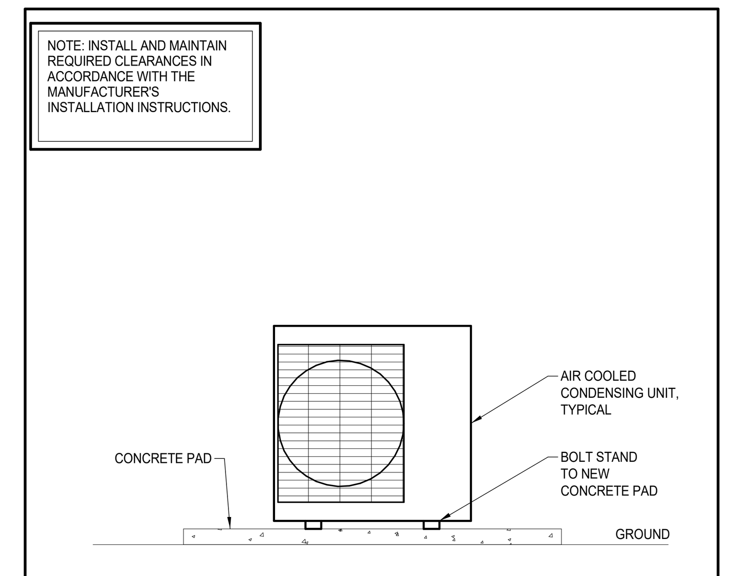


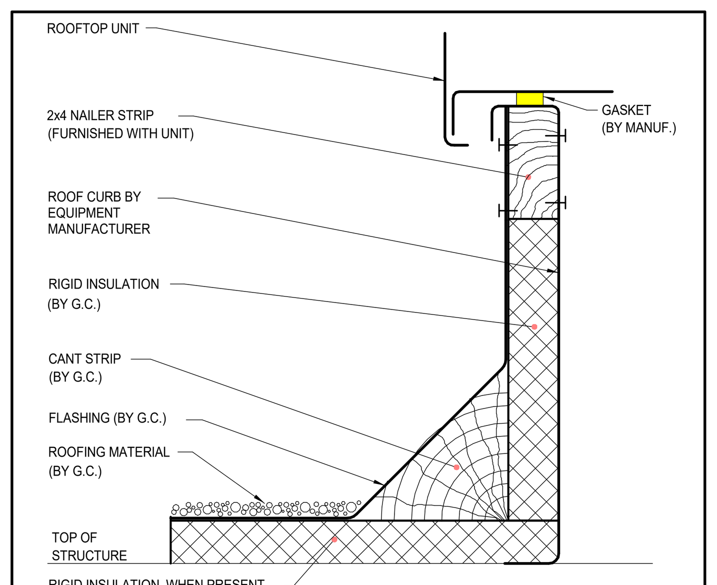
14 / M500 **HARD LID CEILING DIFFUSER DETAIL**
SCALE: NONE



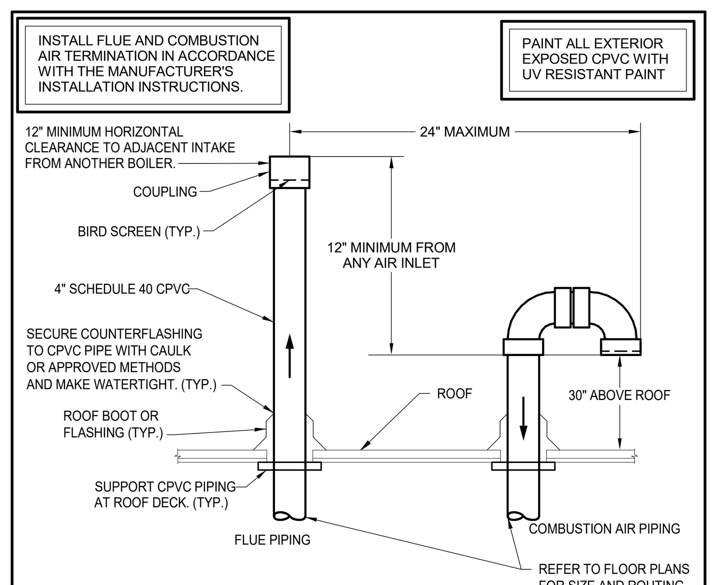
13 / M500 **BRANCH DUCT TAKE-OFF DETAIL**
SCALE: NONE



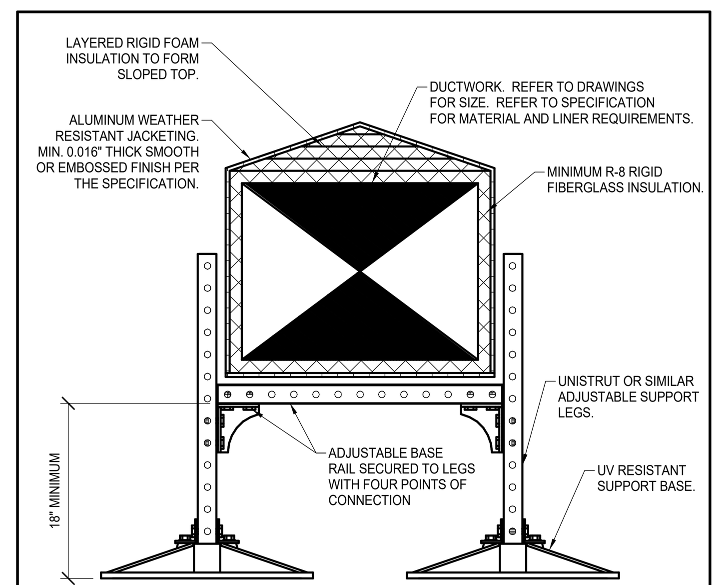
12 / M500 **SPLIT CONDENSING UNIT DETAIL**
SCALE: NONE



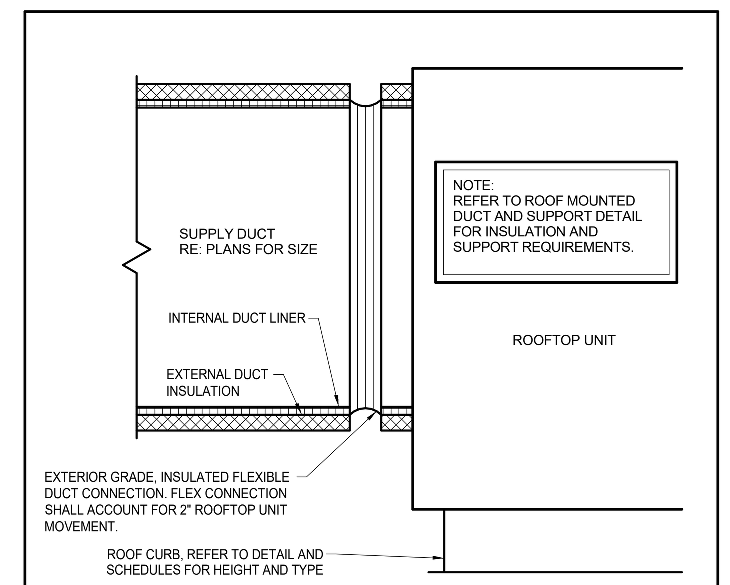
21 / M500 **ROOF CURB DETAIL**
SCALE: NONE



20 / M500 **BOILER FLUE/COMBUSTION AIR DETAIL**
SCALE: NONE



19 / M500 **EXTERIOR DUCT AND SUPPORT DETAIL**
SCALE: NONE



18 / M500 **RTU SIDE DUCT CONNECTION DETAIL**
SCALE: NONE

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

HVAC DETAILS

M500

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1/23/2025 3:21:30 PM Autodesk Docs://Chico CA Aquatics Center/23084_CARD_HVAC_R24.rvt

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG. IF IT'S NOT, ADJUST YOUR PRINT SETTINGS.

THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS.

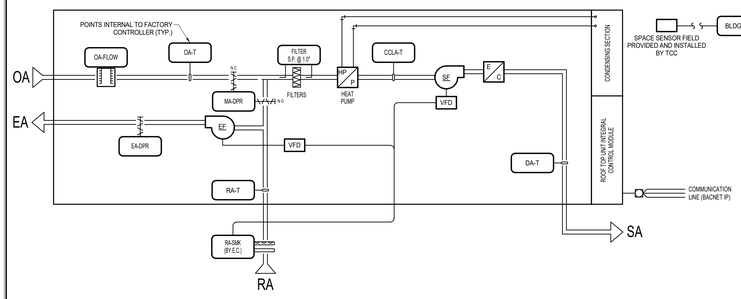
REFER TO SPECIFICATION SECTION 23 09 93 FOR SEQUENCE OF OPERATION

THE FOLLOWING CONTROL POINTS SHALL BE SENT FROM THE FACTORY CONTROLLER TO THE DDC SYSTEM VIA THE INTERFACE CARD AT A MINIMUM AND SHALL BE AVAILABLE AT THE DDC SYSTEM GUI.

READ POINTS:
- UNIT TYPE AND SIZE
- OPERATING MODE
- ALARM STATUS
- ACTIVE MODULATING COOLING SIGNAL
- COOLING COIL LEAVING AIR TEMPERATURE
- ACTIVE MODULATING HEATING SIGNAL
- DISCHARGE AIR TEMPERATURE
- RETURN AIR TEMPERATURE
- OUTSIDE AIR TEMPERATURE
- SUPPLY FAN STATUS
- SUPPLY FAN VFD SPEED
- EXHAUST FAN STATUS
- EXHAUST FAN SPEED
- ECONOMIZER STATUS
- ECONOMIZER POSITION - PERCENT
- OUTSIDE AIRFLOW

WRITE POINTS:
- UNIT ENABLE/DISABLE
- OUTSIDE AIRFLOW SETPOINT
- SPACE TEMPERATURE SETPOINT
- CLEAR ALARMS

ALARMS
- GLOBAL ALARM
- SAFETY CIRCUIT ALARM
- SUPPLY FAN FAILURE
- EXHAUST FAN FAILURE
- HEATING FAILURE
- COOLING FAILURE
- ECONOMIZER FAILURE
- DIRTY FILTER
- LOW DAT
- HIGH DAT
- RETURN AIR SMOKE ALARM



ROOFTOP UNIT - SZVAV, HEAT PUMP, EF, BACKUP ELECTRIC PKGD CONTROLS - CONTROL DIAGRAM (RTU-1)

SCALE: NONE

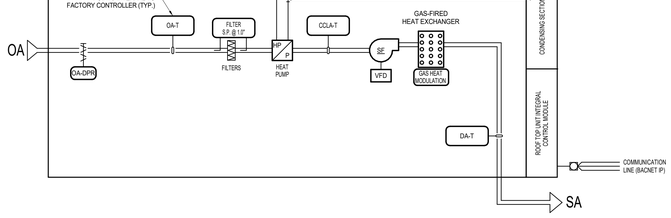
REFER TO SPECIFICATION SECTION 23 09 93 FOR SEQUENCE OF OPERATION

THE FOLLOWING CONTROL POINTS SHALL BE SENT FROM THE FACTORY CONTROLLER TO THE DDC SYSTEM VIA THE INTERFACE CARD AT A MINIMUM AND SHALL BE AVAILABLE AT THE DDC SYSTEM GUI.

READ POINTS:
- UNIT TYPE AND SIZE
- ALARM STATUS
- ACTIVE MODULATING COOLING SIGNAL
- ACTIVE MODULATING HEATING SIGNAL
- DISCHARGE AIR TEMPERATURE
- OUTSIDE AIR TEMPERATURE
- SUPPLY FAN STATUS
- SUPPLY FAN VFD SPEED
- ACTIVE SPACE TEMPERATURE

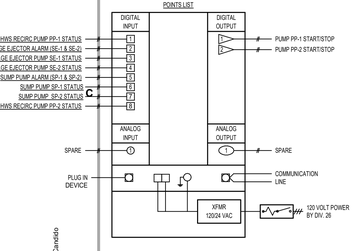
WRITE POINTS:
- UNIT ENABLE/DISABLE
- DISCHARGE AIR TEMPERATURE SETPOINT
- SUPPLY FAN VFD SPEED

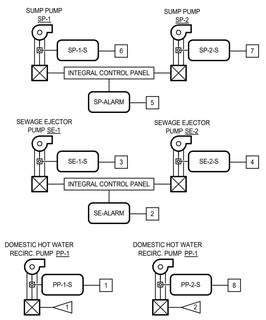
ALARMS
- GLOBAL ALARM
- SAFETY CIRCUIT ALARM
- SUPPLY FAN FAILURE
- HEATING FAILURE
- COOLING FAILURE
- DIRTY FILTER
- LOW DAT
- HIGH DAT



MAKE-UP AIR UNIT - MAU-1 CONTROL DIAGRAM

SCALE: NONE





MISC PLUMBING SYSTEMS CONTROL DIAGRAM

SCALE: NONE

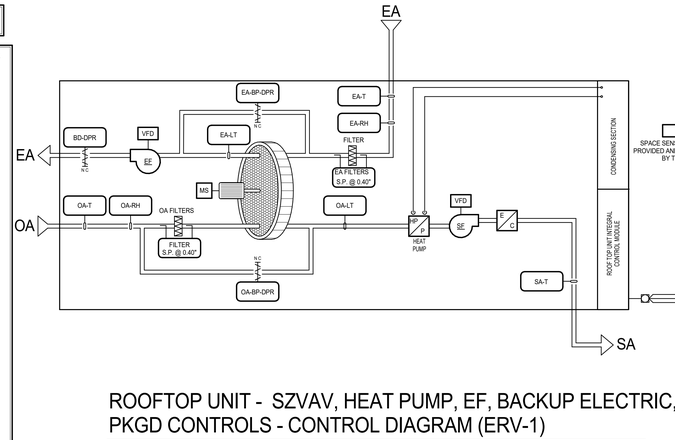
REFER TO SPECIFICATION SECTION 23 09 93 FOR SEQUENCE OF OPERATION

THE FOLLOWING CONTROL POINTS SHALL BE SENT FROM THE FACTORY CONTROLLER TO THE DDC SYSTEM VIA THE INTERFACE CARD AT A MINIMUM AND SHALL BE AVAILABLE AT THE DDC SYSTEM GUI.

READ POINTS:
- UNIT TYPE AND SIZE
- OPERATING MODE
- ALARM STATUS
- ACTIVE MODULATING COOLING SIGNAL
- COOLING COIL LEAVING AIR TEMPERATURE
- ACTIVE MODULATING HEATING SIGNAL
- DISCHARGE AIR TEMPERATURE
- SUPPLY FAN STATUS
- SUPPLY FAN VFD SPEED
- EXHAUST FAN STATUS
- EXHAUST FAN SPEED
- ECONOMIZER STATUS
- ECONOMIZER POSITION - PERCENT
- DEHUMIDIFICATION STATUS
- OUTSIDE AIRFLOW
- ENERGY RECOVERY WHEEL SPEED
- BYPASS DAMPER POSITION
- EXHAUST AIR ENTERING TEMPERATURE
- EXHAUST AIR ENTERING HUMIDITY
- EXHAUST AIR LEAVING TEMPERATURE
- OUTSIDE AIR ENTERING TEMPERATURE
- OUTSIDE AIR ENTERING HUMIDITY
- OUTSIDE AIR LEAVING TEMPERATURE
- ACTIVE SPACE TEMPERATURE
- ACTIVE SPACE HUMIDITY
- ACTIVE SPACE CO2

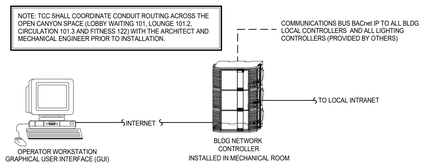
WRITE POINTS:
- UNIT ENABLE/DISABLE
- OCCUPANCY MODE
- OUTSIDE AIRFLOW SETPOINT
- SPACE TEMPERATURE SETPOINT
- SPACE HUMIDITY SETPOINT
- SPACE CO2 SETPOINT
- CLEAR ALARMS

ALARMS
- GLOBAL ALARM
- SAFETY CIRCUIT ALARM
- SUPPLY FAN FAILURE
- EXHAUST FAN FAILURE
- HEATING FAILURE
- COOLING FAILURE
- ECONOMIZER FAILURE
- DEHUMIDIFICATION FAILURE
- DIRTY FILTER
- LOW DAT
- HIGH DAT



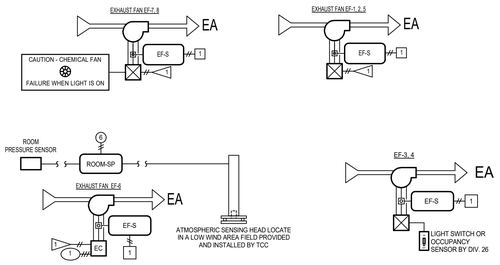
ROOFTOP UNIT - SZVAV, HEAT PUMP, EF, BACKUP ELECTRIC, ENERGY RECOVERY PKGD CONTROLS - CONTROL DIAGRAM (ERV-1)

SCALE: NONE

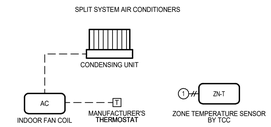


BAS NETWORK DIAGRAM

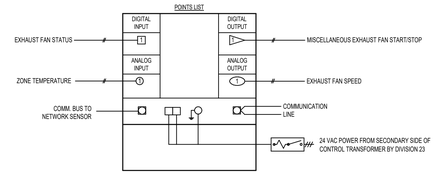
SCALE: NONE



EXHAUST FAN CONTROL DIAGRAM



DUCTLESS SPLIT SYSTEM CONTROL DIAGRAM



MISCELLANEOUS DDC CONTROL DIAGRAM

SCALE: NONE

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

HVAC CONTROL DIAGRAMS

M600

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1/23/2025 3:21:30 PM Autodesk Docs://Chico CA Aquatics Center/23084_CARD_HVAC_R24.rvt

2022 TITLE 24 MINIMUM OUTDOOR AIR REQUIREMENTS

Project: CARD Aquatics | **DATE:** 12/4/2024 | **SYSTEM TAG:** RTU-1
Project #: 23084 | **BY:** DSF | **OPERATING MODE:** HEATING

ZONE TAG	ROOM NAME	ROOM NO.	OCCUPANCY CATEGORY	FLOOR AREA (SF)	DESIGN POP.	OA/ PERSON	OA/ SF	REQUIRED OA TO ZONE (CFM)	SUPPLY AIR TO ZONE (CFM)	NOTES
RTU-1	Family Changing	116	Locker Rooms	80	2	15.0	0.15	24.0	125	NOTE: 1
RTU-1	Adult Changing	117	Locker Rooms	165	3	15.0	0.15	49.5	125	NOTE: 1
RTU-1	Classroom / Party Room	119/120	Classrooms	1,100	55	15.0	0.38	825.0	2,400	NOTE: 1
RTU-1	Ticketing	122	Ticketing Office	125	3	15.0	0.15	37.5	300	NOTE: 1
RTU-1	Admin. Office	123	Office Space	200	1	15.0	0.15	30.0	330	NOTE: 1

FLOOR AREA SERVED BY SYSTEM	1,670	sf
POPULATION OF SYSTEM	64	OCCUPANTS
TOTAL REQUIRED OUTDOOR AIR	**966**	**CFM**
TOTAL OUTDOOR AIR PROVIDED	**1,000**	**CFM**

NOTES

1. POPULATION BASED ON 2022 CALIFORNIA BUILDING CODE TABLE 1004.1.2

2022 TITLE 24 MINIMUM OUTDOOR AIR REQUIREMENTS

Project: CARD Aquatics | **DATE:** 12/4/2024 | **SYSTEM TAG:** ERV-1
Project #: 23084 | **BY:** DSF | **OPERATING MODE:** HEATING

ZONE TAG	ROOM NAME	ROOM NO.	OCCUPANCY CATEGORY	FLOOR AREA (SF)	DESIGN POP.	OA/ PERSON	OA/ SF	REQUIRED OA TO ZONE (CFM)	SUPPLY AIR TO ZONE (CFM)	NOTES
ERV-1	Lifeguards	100	Office Space	215	2	15.0	0.15	32.3	600	NOTE: 1
ERV-1	Lifeguard Breakroom	101	Break Rooms	230	2	15.0	0.50	115.0	450	NOTE: 1
ERV-1	Aquatics Office	102	Office Space	115	1	15.0	0.15	17.3	240	NOTE: 1
ERV-1	Janitorial Storage	103	Storage	85	0	15.0	0.15	12.8	200	NOTE: 1
ERV-1	Swim Team Leased Office	104	Office Space	150	1	15.0	0.15	22.5	250	NOTE: 1
ERV-1	Men's Locker Room	105/107/109	Locker Rooms	1,250	25	15.0	0.15	375.0	1,600	NOTE: 1
ERV-1	Women's Locker Room	106/108/110	Locker Rooms	1,250	25	15.0	0.15	375.0	1,600	NOTE: 1
ERV-1	Concessions	111	Kitchen (cooking)	275	1	15.0	0.15	41.3	400	NOTE: 1
ERV-1	Storage	112	Storage	75	0	15.0	0.15	11.3	175	NOTE: 1
ERV-1	Family Changing	113	Locker Rooms	115	2	15.0	0.15	34.5	175	NOTE: 1
ERV-1	Family Changing	114	Locker Rooms	100	2	15.0	0.15	30.0	175	NOTE: 1

FLOOR AREA SERVED BY SYSTEM	3,860	sf
POPULATION OF SYSTEM	61	OCCUPANTS
TOTAL REQUIRED OUTDOOR AIR	**1,067**	**CFM**
TOTAL OUTDOOR AIR PROVIDED	**1,100**	**CFM**

NOTES

1. POPULATION BASED ON 2022 CALIFORNIA BUILDING CODE TABLE 1004.1.2

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Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

HVAC OUTSIDE AIR CALCULATIONS

M700

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STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	Chico Aquatic and Recreation Facility	**Report Page:**	**(Page 3 of 18)**
		Date Prepared:	2025-01-16T00:08:25-05:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
				Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
RTU-1	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	Yes	116	102.3	68.2	135.5	153.6	64	133.5
ERV-1	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	Yes	203	159.5	136.5	182.9	209.6	133.6	209.6

[1]FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.
[2]It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.
[3] If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.
[4] Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
		Heating Mode				Cooling Mode		
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
RTU-1	>=135,000 and <240,000	47 °Fdb/ 43 °Fwb OSA	COP	3.3	3.59	EER IEER	10.6 13.5	10.6 17.84
ERV-1	>=135,000 and <240,000	47 °Fdb/ 43 °Fwb OSA	COP	3.3	3.3	EER IEER	10.6 13.5	10.78 16.86

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	Chico Aquatic and Recreation Facility	**Report Page:**	**(Page 2 of 18)**
		Date Prepared:	2025-01-16T00:08:25-05:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND	Yes	AND	Yes	AND	Yes	AND		AND	Yes	AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)										COMPLIES					

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
RTU-1	1	Single zone	New/ Addition	School or Classroom	☐
ERV-1	1	Single zone	New/ Addition	All Other Occupancies	☐

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-MCH-E

This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.

Project Name:	Chico Aquatic and Recreation Facility	**Report Page:**	**(Page 1 of 18)**
Project Address:		**Date Prepared:**	2025-01-16T00:08:25-05:00

A. GENERAL INFORMATION

01	Project Location (city)	Chico	04	Total Conditioned Floor Area	10300
02	Climate Zone	11	05	Total Unconditioned Floor Area	3575
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

• All Other Occupancies

B. PROJECT SCOPE

This table Includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☒ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☒ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☒ Ductwork (existing to remain, altered or new)
	☐ Chillers	☒ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

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H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	MAU-1	Quantity	1	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	4,000	Site Elevation	300	Economizer	Differential Temperature

01	02	03	04	05	06	07	08	09	10	11
						Allowance		Design		
Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Component Allowance (watt/cfm)	Fan Allowance (watt/cfm)[3]	Design Electrical Input Power Method	Motor Nameplate Horsepower	Fan Electrical Input Power (kW)
MAU-1 Supply Fan	Supply	1	Hydronic/DX cooling coil or heat pump coil	100		0.139	0.614	Default per Table 140.4-D/141.0-D Variable Speed Drive	>=2 and <3	2.73
			Gas heat	100		0.058				
			Low-turndown single-zone VAV fan systems	100		0.07				
			MERV 13-16 Filter downstream of thermal conditioning equipment	100		0.231				
			Economizer Return Damper	100		0.046				
			100% outdoor air system	100		0.07				

Supply Fan Base Allowance (watt/cfm)	0.232	Exhuast/Return/Relief/Transfer Fan Base Allowance(watt/cfm)	0	Fan System Allowance (kW)[3]	3.38	Fan System Electrical Input Power (kW)	2.73

[1] FOOTNOTES: Fans serving spaces with design background noise goals below NC35
[2] Low-turndown single-zone VAV fan system must be capable of and configured to reduce airflow to 50 percent of design airflow and use no more than 30 percent of the design wattage at that airflow. No more than 10 percent of the design load served by the equipment shall have fixed loads.
[3] Fan system allowance includes fan system base allowance.
[4] Filter pressure loss can only be counted once per fan system.
[5] Complex Fan System means a fan system that combines a single cabinet fan system with other supply fans, exhaust fans, or both.

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H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	ERV-1	Quantity	1	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	5,775	Site Elevation	300	Economizer	Differential Temperature

01	02	03	04	05	06	07	08	09	10	11
						Allowance		Design		
Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Component Allowance (watt/cfm)	Fan Allowance (watt/cfm)[3]	Design Electrical Input Power Method	Motor Nameplate Horsepower	Fan Electrical Input Power (kW)
ERV-1 Supply Fan	Supply	1	Hydronic/DX cooling coil or heat pump coil	100		0.12	0.681	Default per Table 140.4-D/141.0-D Variable Speed Drive	>=2 and <3	2.73
			Electric heat	100		0.04				
			Low-turndown single-zone VAV fan systems	100		0.1				
			MERV 13-16 Filter downstream of thermal conditioning equipment	100		0.197				
			Economizer Return Damper	100		0.04				
			Energy Recovery 0.65 <= ERR > 0.70	100		0.184				
ERV-1 Exhaust Fan	Exhaust	5775	Airflow control devices required for space pressurization control	100		0.102	0.331	Default per Table 140.4-D/141.0-D Variable Speed Drive	>=1.5 and <2	1.84
			Energy Recovery 0.65 <= ERR > 0.70	100		0.188				
			Filter (any MERV value)	100		0.041				

Supply Fan Base Allowance (watt/cfm)	0.256	Exhuast/Return/Relief/Transfer Fan Base Allowance(watt/cfm)	0.18	Fan System Allowance (kW)[3]	11045.53	Fan System Electrical Input Power (kW)	10,628.73

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G. PUMPS

This section does not apply to this project.

H. FAN SYSTEMS & AIR ECONOMIZERS

This table is used to demonstrate compliance with prescriptive requirements found in 140.4(c), 140.4(e), 140.4(m), 170.2(c)3, and 170.2(c)4A for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name	RTU-1 Fan System	Quantity	1	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	3,600	Site Elevation	300	Economizer	Differential Temperature

01	02	03	04	05	06	07	08	09	10	11
						Allowance		Design		
Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Component Allowance (watt/cfm)	Fan Allowance (watt/cfm)[3]	Design Electrical Input Power Method	Motor Nameplate Horsepower	Fan Electrical Input Power (kW)
RTU-1 Supply Fan	Supply	1	Hydronic/DX cooling coil or heat pump coil	100		0.139	0.532	Default per Table 140.4-D/141.0-D Variable Speed Drive	>=2 and <3	2.73
			Electric heat	100		0.046				
			Low-turndown single-zone VAV fan systems	100		0.07				
			MERV 13-16 Filter downstream of thermal conditioning equipment	100		0.231				
			Economizer Return Damper	100		0.046				
RTU-1 Exhaust Fan	Exhaust	1	Airflow control devices required for space pressurization control	100		0.116	0.162	Default per Table 140.4-D/141.0-D Variable Speed Drive	<1	0.89
			Filter (any MERV value)	100		0.046				

Supply Fan Base Allowance (watt/cfm)	0.232	Exhuast/Return/Relief/Transfer Fan Base Allowance(watt/cfm)	0.18	Fan System Allowance (kW)[3]	4	Fan System Electrical Input Power (kW)	3.62

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

HVAC COMMISSIONING

M800

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STATE OF CALIFORNIA
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CALIFORNIA ENERGY COMMISSION

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J. VENTILATION AND INDOOR AIR QUALITY

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)3[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[6] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
116 - Family Changing	Locker room (all others)	80		2	30	20	125	DCV	NA: Area < 150ft² or design occupancy < 10 people
								Occ Sensor	NA: Continuously operated per §120.2(e)3 exception
Adult Changing	Locker room (all others)	165		3	45	41.25	125	DCV	NA: Area < 150ft² or design occupancy < 10 people
								Occ Sensor	NA: Continuously operated per §120.2(e)3 exception
119 & 120 - Classroom/Party Room	Classroom (ages 5-18)	1100		55	825			DCV	Provided per §120.1(d)4
								Occ Sensor	Provided per §120.1(d)5
120 - Ticketing	Office space	125		3	45			DCV	NA: Area < 150ft² or design occupancy < 10 people
								Occ Sensor	NA: Continuously operated per §120.2(e)3 exception

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I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09	10
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D	Direct Digital Control (DDC) per 120.2
RTU-1	Single zone	<= 25,000 ft²	EMCS	EMCS	NA: Single Zone	EMCS	NA: Single Zone	NA: No thermostatic control	Provided
ERV-1	Single zone	<= 25,000 ft²	EMCS	EMCS	NA: Single Zone	EMCS	NA: Single Zone	NA: No thermostatic control	Provided

[1]FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in 120.1 120.2(e)3B 140.4(p) and 140.4(q) for all nonresidential and hotel/motel and d:t24refnolink/]160.2, 160.3(a)3D, 170.2(a)4N, 170.2(a)4O for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☐	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☒	Check this box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces
	☐	
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per 120.1(c)2.

Nonresidential and Hotel/ Motel Multifamily Common Use Ventilation Systems

04		05		06		07
System Name	RTU-1	System Design OA CFM Airflow[1]	1000	System Design Transfer Air CFM	0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21[2]: Provided
08	09	10 / 11	12	13 / 14	15	16

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H. FAN SYSTEMS & AIR ECONOMIZERS

[6] Computer room economizers must meet requirements of 140.9(a) and will be documented on the NRCC-PRC-E document..

H. EXHAUST AIR HEAT RECOVERY 140.4(q), 170.2(c)4O

01	02	03	04	05	06	07	08	09	10	11
Fan System Name	Qty	Hours of Operation per Year	Design Supply Airflow Rate	Outdoor Airflow	% Outdoor Air at Full Design Airflow	Exemptions to Exhaust Air Heat Recovery Requirement per 140.4(q) & 170.2(c)4O	Exhaust Air Heat Recovery 140.4(q) & 170.2(c)4O	Type Of Heat Recovery Rating	Required Recovery Ratio	Energy Recovery Bypass
RTU-1 Fan System	1	< 8,000	3,600	1,000	28	No Exemptions Apply	Not Required			
ERV-1	1	< 8,000	5,775	1,100	19	No Exemptions Apply	Not Required			
MAU-1	1	< 8,000	4,000	4,000	100	No Exemptions Apply	Required for heating and cooling design conditions	Sensible Energy Recovery Ratio	0.6	NA: DOAS unit with shut-off capabilities per 140.4(q)2

Fan Energy Index (FEI)

01	02	03
Name or Item Tag	FEI Exception	FEI
RTU-1 Supply Fan	Variable Air Volume Fan System	1.22
RTU-1 Exhaust Fan	Variable Air Volume Fan System	0.96
ERV-1 Supply Fan	None Applies	1.19
ERV-1 Exhaust Fan	None Applies	1.19
MAU-1 Supply Fan	None Applies	1.36

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J. VENTILATION AND INDOOR AIR QUALITY

Concessions	Kitchen (cooking)	275		1	15	192.5	400	DCV	NA: Area < 150ft² or design occupancy < 10 people
								Occ Sensor	NA: Continuously operated per §120.2(e)3 exception
112 - Storage	No applicable space vent	75		1				DCV	NA: Area < 150ft² or design occupancy < 10 people
								Occ Sensor	NA: Continuously operated per §120.2(e)3 exception
113 - Family Changing	Locker room (all others)	115		2	30	28.75	175	DCV	NA: Area < 150ft² or design occupancy < 10 people
								Occ Sensor	NA: Continuously operated per §120.2(e)3 exception
114 - Family Changing	Locker room (all others)	100		2	30	25	175	DCV	NA: Area < 150ft² or design occupancy < 10 people
								Occ Sensor	NA: Continuously operated per §120.2(e)3 exception
17	Total System Required Min OA CFM				1000	18	Ventilation for this System Complies?		Yes

[1] FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system

[2] Air filtration requirements apply to the following three system types per 120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.

[3] Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.

[4] See Standards Tables 120.1-A and 120.1-B.

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J. VENTILATION AND INDOOR AIR QUALITY

102 - Aquatics Office	Office space	115		1	15			DCV	NA: Area < 150ft² or design occupancy < 10 people
								Occ Sensor	NA: Continuously operated per §120.2(e)3 exception
103 - Janitorial Storage	No applicable space vent	85		1				DCV	NA: Area < 150ft² or design occupancy < 10 people
								Occ Sensor	NA: Continuously operated per §120.2(e)3 exception
104 - Swim Team Leased Office	Office space	150		1	15			DCV	NA: Area < 150ft² or design occupancy < 10 people
								Occ Sensor	NA: Continuously operated per §120.2(e)3 exception
105/107/109 - Men's Locker Room	Locker room (all others)	1250		25	375	312.5	1600	DCV	NA: Space exhaust is > design ventilation rate exception
								Occ Sensor	NA: Continuously operated per §120.2(e)3 exception
106/108/110	Locker room (all others)	1250		25	375	312.5	1600	DCV	NA: Space exhaust is > design ventilation rate exception
								Occ Sensor	NA: Continuously operated per §120.2(e)3 exception

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J. VENTILATION AND INDOOR AIR QUALITY

123 - Admin Office	Office space	200		1	15			DCV	NA: Area < 150ft² or design occupancy < 10 people
								Occ Sensor	NA: Continuously operated per §120.2(e)3 exception
17	Total System Required Min OA CFM				960	18	Ventilation for this System Complies?		Yes

04		05		06		07
System Name	ERV-1	System Design OA CFM Airflow[1]	1100	System Design Transfer Air CFM	0	Air Filtration per 120.1(c) 141.0(b)2 and 160.2(c)21[2]: Provided
08	09	10 / 11	12	13 / 14	15	16

Space Name or Item Tag	Mechanical Ventilation Required per 120.1(c)3[3] & 160.2(c)3					Exh. Vent per 120.1(c)4 & 160.2(c)4		DCV or Sensor Controls per 120.1(d)3, 120.1(d)5, and 120.1(e)3[6] 160.2(c)5D 160.2(c)5E 160.2(c)5D	
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM		
100 - Lifeguards	Office space	215		2	30			DCV	NA: Area < 150ft² or design occupancy < 10 people
								Occ Sensor	NA: Continuously operated per §120.2(e)3 exception
101 - Lifeguard Breakroom	Break room	230		2	115			DCV	NA: Area < 150ft² or design occupancy < 10 people
								Occ Sensor	NA: Continuously operated per §120.2(e)3 exception

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

HVAC COMMISSIONING

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CALIFORNIA ENERGY COMMISSION

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L. DISTRIBUTION (DUCTWORK and PIPING)			
		Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?	---
		Duct leakage testing per CMC Section 603.9.2 required for these systems?	Yes
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:	
15	No	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Exposed Ductwork located in occupied space	All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A	
18	No	All ductwork is an extension of an existing duct system	
19	No	Ductwork serving individual dwelling unit	
20		< 25 ft of new or replacement space conditioning ducts installed	
21	R-4.2	Duct Insulation R-value	
22	No	Ductwork Existing To Remain	
23	No	Duct System Connected To Altered Space Conditioning System	

M. COOLING TOWERS
This section does not apply to this project.

STATE OF CALIFORNIA

Mechanical Systems

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L. DISTRIBUTION (DUCTWORK and PIPING)			
		Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?	---
		Duct leakage testing per CMC Section 603.9.2 required for these systems?	Yes
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.	
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:	
15	No	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Exposed Ductwork located in occupied space	All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A	
18	No	All ductwork is an extension of an existing duct system	
19	No	Ductwork serving individual dwelling unit	
20		< 25 ft of new or replacement space conditioning ducts installed	
21	R-4.2	Duct Insulation R-value	
22	No	Ductwork Existing To Remain	
23	No	Duct System Connected To Altered Space Conditioning System	
The answers to the questions below apply to the following duct systems:	ERV-1	**NR/ Common Use:** Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?	No

STATE OF CALIFORNIA

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J. VENTILATION AND INDOOR AIR QUALITY

[5] For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.

[6] 120.2(e)3 requires systems serving rooms that are required by 130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft^2 or smaller, multipurpose rooms less than 1,000 ft^2, classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by 130.1(c).

K. TERMINAL BOX CONTROLS
This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)			
This table is used to show compliance with mandatory pipe insulation requirements found in 120.3 and mandatory requirements found in 120.4(g) for duct sealing.			
01	☐	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space shall have a Class I or Class II vapor retarder. All penetrations and joints of which shall be sealed.	
Duct Leakage Testing			
The answers to the questions below apply to the following duct systems:	RTU-1	**NR/ Common Use:** Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?	No

STATE OF CALIFORNIA

Mechanical Systems

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-MCH-E**
Project Name:	Chico Aquatic and Recreation Facility	**Report Page:**	**(Page 18 of 18)**
Project Address:		**Date Prepared:**	2025-01-16T00:08:25-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Daniel Faltz	Documentation Author Signature:
Company:	Signature Date:
Address:	CEA/ HERS Certification Identification (if applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature:
Company:	Date Signed:
Address:	License:
City/State/Zip:	Phone:

STATE OF CALIFORNIA

Mechanical Systems

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-MCH-E**
Project Name:	Chico Aquatic and Recreation Facility	**Report Page:**	**(Page 17 of 18)**
		Date Prepared:	2025-01-16T00:08:25-05:00

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	Plan sheet or construction document location

03	04
Mandatory Measure	**Plan sheet or construction document location**
Heating Equipment Efficiency per 110.1	M400
Cooling Equipment Efficiency per 110.1	M400
Furnace Standby Loss Control per 110.2(d)	N/a
Duct Insulation per 120.4	Specification 23 07 00
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)	M600
The air duct and plenum system is designed per 120.4(a)-(f)	M000
Kitchen range hoods shall be rated for sound in accordance with Section 7.2 of ASHRAE 62.2	N/a

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Project Name:	Chico Aquatic and Recreation Facility	**Report Page:**	**(Page 16 of 18)**
		Date Prepared:	2025-01-16T00:08:25-05:00

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4

Form/Title	Systems/Spaces To Be Field Verified
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	RTU-1; ERV-1
NRCA-MCH-05-A - Air Economizer Controls	RTU-1 Fan System; ERV-1; MAU-1
NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to 120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO_2) concentration setpoints.	119 & 120 - Classroom/Party Room
NRCA-MCH-11-A Automatic Demand Shed Controls	RTU-1; ERV-1
NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance	RTU-1; ERV-1
NRCA-MCH-18-A Energy Management Control Systems	RTU-1; ERV-1

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
There are no NRCV forms required for this project.

CONFLUENCE

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BARKER RINKER SEACAT ARCHITECTURE

PERMIT REVIEW & BID SET ONLY

DOCUMENT PACKAGE NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY

CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

HVAC COMMISSIONING

M802

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File Location: T:\Projects\2023\23030_Chico Aquatic and Recreation Facility\23030_WORKING\AUTOCAD\SHEETS\GN002 OVERALL PLAN / SAVE DATE: 3/5/2024 4:18 PM BY: jhecandido / PLOT DATE: 1/20/2023 2:45 PM BY: Jin He-Candido
1/23/2025 3:21:30 PM Autodesk Docs://Chico CA Aquatics Center/23084_CARD_HVAC_R24.rvt

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAGE SIZE
plot to .pdf in color for paper plots, use black & white whenever possible to save printing costs
THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, IF PRINTED CORRECTLY

DISTRIBUTION AND RACEWAY

- MAIN DISTRIBUTION CENTER (MDC)
- SURFACE MTD PANELBOARD
- RECESSED PANELBOARD
- TRANSFORMER
- BRANCH CIRCUIT HOMERUN
- CONDUIT CONCEALED IN FLOOR OR UNDERGROUND
- CONDUIT EXPOSED OR CONCEALED IN WALL OR CEILING
- RACEWAY UP
- RACEWAY DOWN
- CAPPED CONDUIT
- CURRENT TRANSFORMER
- CIRCUIT BREAKER SWITCH
- FUSED SWITCH
- GROUNDING ELECTRODE CONDUCTOR
- METER
- GROUND FAULT PROTECTION

SYSTEMS

- TTB, MDF OR IDF SYSTEM BACKBOARD
- TELECOMMUNICATION OUTLET
- FLOOR MOUNTED TELECOMMUNICATION OUTLET
- TELEVISION OUTLET
- CABLE TRAY (LENGTH AS INDICATED ON DRAWINGS)
- CR — CARD READER

LIGHTING FIXTURES

- A1a — LUMINAIRE TYPE, REFERENCING LUMINAIRE SCHEDULE, TYPICAL ALL FIXTURES. SUBSCRIPT, IF SHOWN, REFERENCES WALL SWITCH OR RELAY/ZONE CONTROL
- WALL MOUNTED LUMINAIRE
- SURFACE OR PENDANT MOUNTED LUMINAIRE
- RECESSED LUMINAIRE
- RECESSED DOWNLIGHT LUMINAIRE
- SURFACE CEILING LUMINAIRE
- PENDANT LUMINAIRE
- ARROW INDICATES DIRECTIONAL LUMINAIRE
- MONOPOINT LUMINAIRE
- SURFACE OR PENDANT TRACK LUMINAIRE REFER TO FIXTURE SCHEDULE FOR HEAD QTY.
- LED TAPE LUMINAIRE
- FESTOON LIGHTING
- RECESSED MULTI-HEAD LUMINAIRE
- FLOOR OR TABLE LAMP
- EXIT LUMINAIRE - SHADED INDICATES FACE / DIRECTIONAL ARROWS AS SHOWN
- BATTERY PACK EMERGENCY LUMINAIRE
- HATCH INDICATES EMERGENCY LUMINAIRE
- PORCELAIN KEYLESS LAMP HOLDER
- STEP LIGHT TYPE LUMINAIRE
- IN-GRADE UPLIGHT
- BOLLARD LUMINAIRE
- PEDESTRIAN POLE OR POST TOP LUMINAIRE
- EXTERIOR AREA LIGHT

WIRING DEVICES

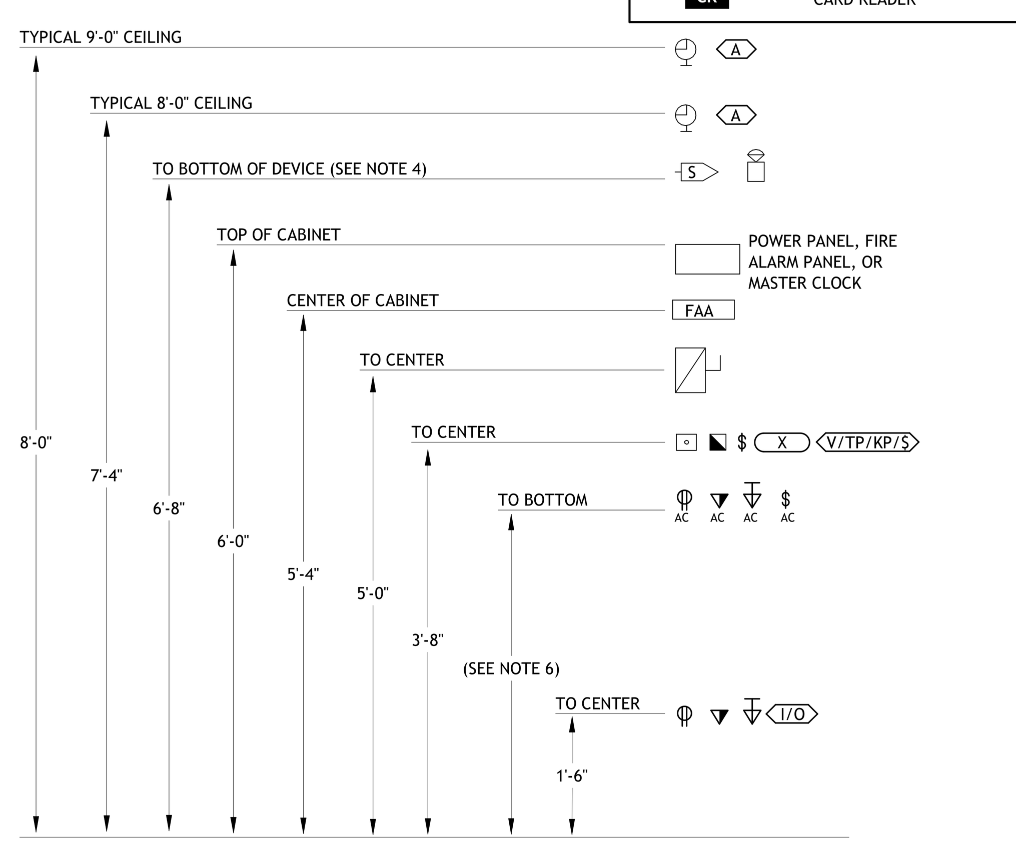
- DUPLEX RECEPTACLE
- FOUR PLEX RECEPTACLE
- SINGLE RECEPTACLE
- COMBO RECEPTACLE/SWITCH
- SWITCHED DUPLEX RECEPTACLE
- EMERGENCY POWERED DUPLEX RECEPTACLE
- SPECIAL PURPOSE RECEPTACLE
- FLOOR MOUNTED SPECIAL PURPOSE RECEPTACLE
- FLOOR MOUNTED RECEPTACLE DUPLEX/QUAD
- CLG — CEILING MOUNTED RECEPTACLE DUPLEX/QUAD
- SR — SURFACE RACEWAY
- CLOCK RECEPTACLE
- J — JUNCTION BOX
- J — WALL MOUNTED J-BOX
- J — FLOOR MOUNTED JUNCTION BOX
- MOLDED CASE CIRCUIT BREAKER IN ENCLOSURE
- NON-FUSED DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- MAGNETIC CONTROLLER (STARTER)
- COMBINATION STARTER/DISCONNECT SWITCH
- HP — MOTOR
- R — RELAY
- TC — TIME CLOCK
- $TO — THERMAL OVERLOAD SWITCH
- $ — SINGLE POLE SWITCH, LINE VOLTAGE
- $3 — 3-WAY SWITCH, LINE VOLTAGE
- $4 — 4-WAY SWITCH, LINE VOLTAGE
- $K — KEY OPERATED SWITCH
- $D — DIMMER SWITCH, LINE VOLTAGE
- $DOOR — RECESSED DOOR SWITCH
- X — LIGHTING CONTROL DEVICE, REFER TO DETAILS FOR CONTROL INTENT

ABBREVIATIONS AND SYMBOLS

A	AMPERE(S)
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERES INTERRUPTING CAPACITY
ATS	AUTOMATIC TRANSFER SWITCH
BFF	BELOW FINISHED FLOOR
BOF	BOTTOM OF FIXTURE
C	CONDUIT
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCT	CORRELATED COLOR TEMPERATURE
CLG	CEILING
CT	CURRENT TRANSFORMER
DED	DEDICATED CIRCUIT
DISC	DISCONNECT
DW	DISHWASHER
DWG(S)	DRAWING(S)
(E)	EXISTING TO REMAIN
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
(ER)	EXISTING TO BE RELOCATED
EM	EMERGENCY
EPO	EMERGENCY POWER OFF
EWC	ELECTRIC WATER COOLER
F	FUSE
FLA	FULL LOAD AMPS
FS	SPRINKLER FLOW SWITCH
G	GROUND
GC	GENERAL CONTRACTOR
GD	GARBAGE DISPOSAL
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
HP	HORSEPOWER
IDF	INTERMEDIATE DISTRIBUTION FACILITY
IG	ISOLATED GROUND
ISC	SHORT CIRCUIT CURRENT
KVA	KILOVOLT AMPERE(S)
KW	KILOWATT(S)
LTG	LIGHTING
MCA	MINIMUM CIRCUIT AMPERE(S)
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION CENTER
MDF	MAIN DISTRIBUTION FACILITY
MLO	MAIN LUGS ONLY
MTS	MANUAL TRANSFER SWITCH
MW	MICROWAVE
NC	NORMALLY CLOSED
NL	NIGHT LIGHT - SEE GENERAL NOTES
NO	NORMALLY OPEN
OAE	OR APPROVED EQUAL
OFH	OVERALL FIXTURE HEIGHT
OH	OVERHEAD
P	POLE
PART	PARTIAL CIRCUIT
PH	PHASE
PNL	PANEL
RCPT	RECEPTACLE
REF	REFRIGERATOR
RFD	RECESSED FIXTURE DEPTH
(R)	EXISTING TO BE REMOVED
(RL)	RELOCATED LOCATION
SPD	SURGE PROTECTION DEVICE
TS	SPRINKLER TAMPER SWITCH
UC	UNDER COUNTER/CABINET
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VOLT(S)
W	WATT(S) OR WIRE
WFD	WALL FIXTURE DEPTH
WG	WIRE GUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER
X	POOL EQUIPMENT SCHEDULE NOTATION
X	KITCHEN EQUIPMENT SCHEDULE NOTATION
X X	MECHANICAL EQUIPMENT SCHEDULE NOTATION
X	DETAIL NOTE
X	DELTA REVISION NOTE
X	ELECTRICAL WIRE SIZE
T1	LIGHTING CONTROLS SEQUENCE OF OPERATION

ELECTRICAL GENERAL NOTES

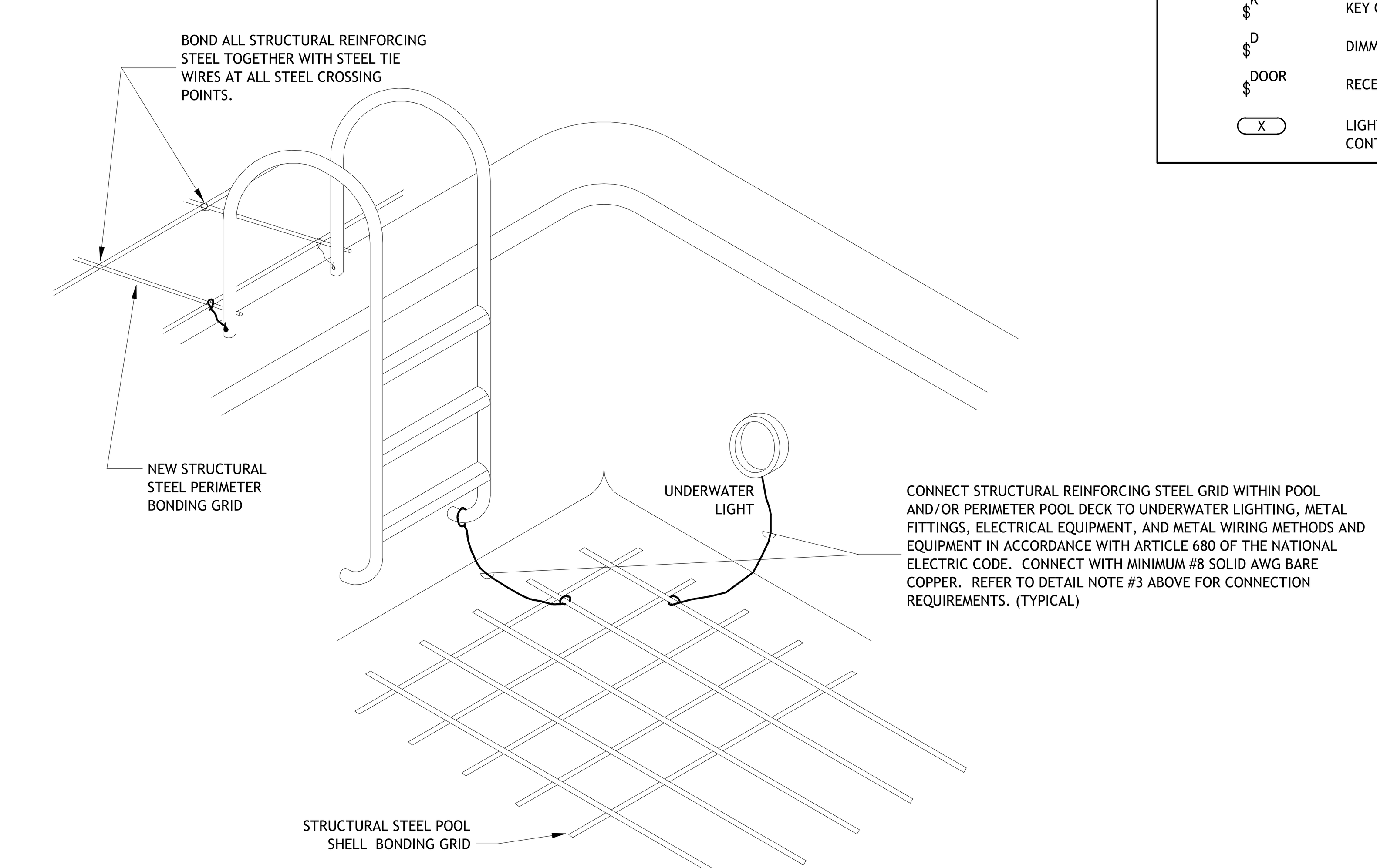
1. THE CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIAL NECESSARY FOR A COMPLETE AND FUNCTIONING ELECTRICAL SYSTEM.
2. MATERIALS AND INSTALLATION SHALL COMPLY WITH CODES, LAWS AND ORDINANCES OF FEDERAL, STATE AND LOCAL GOVERNING BODIES HAVING JURISDICTION.
3. MATERIALS AND EQUIPMENT SHALL BE LISTED AND/OR LABELED BY U.L., ETL, CSA OR ANOTHER RECOGNIZED TESTING LAB.
4. ALL WORK REQUIRED FOR THE INSTALLATION AS SHOWN ON DRAWINGS INCLUDING LABOR, EQUIPMENT AND MATERIALS SHALL BE IN STRICT COMPLIANCE WITH THE BUILDING STANDARDS, EXCEPT AS NOTED OTHERWISE.
5. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, GOVERNMENTAL FEES, TAXES AND LICENSES NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE ELECTRICAL WORK.
6. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO GOVERNMENTAL AGENCIES AND UTILITY COMPANIES SHOP DRAWINGS, WHICH ARE REQUIRED BY THESE AGENCIES, FOR THEIR APPROVAL.
7. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER/OWNER OF ANY MATERIALS OR APPARATUS BELIEVED TO BE INADEQUATE, UNSUITABLE, IN VIOLATION OF LAWS, ORDINANCES, RULES OR REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
8. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE CONTRACT DOCUMENTS, VISIT THE SITE, AND THOROUGHLY BECOME FAMILIAR WITH THE BUILDING STANDARDS AND LOCAL CONDITIONS RELATING TO THE WORK. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT.
9. ALL MATERIALS, AND EQUIPMENT SHALL BE ERECTED, INSTALLED, CONNECTED, CLEANED, ADJUSTED, TESTED, CONDITIONED, AND PLACED IN SERVICE IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS AND RECOMMENDATIONS.
10. ALL CUTTING, DRILLING AND PATCHING OF MASONRY, STEEL OR IRON WORK BELONGING TO THE BUILDING MUST BE DONE BY THIS CONTRACTOR IN ORDER THAT THEIR WORK MAY BE PROPERLY INSTALLED, BUT UNDER NO CONDITIONS MAY STRUCTURAL WORK BE CUT, EXCEPT AT THE DIRECTION OF THE ARCHITECT-DESIGNER OR THEIR REPRESENTATIVE.
11. E.C. IS TO REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ALL FIRE RATED PENETRATION INSTALLATION REQUIREMENTS. E.C. IS TO NOTIFY ENGINEER AND ARCHITECT PRIOR TO INSTALLING ANY FIXTURES WITHIN A FIRE RATED CEILING OR WALL. FIRE RATING MUST BE MAINTAINED FOR THIS TYPE OF INSTALLATION WITH DRYWALL TENTING.
12. E.C. SHALL PROVIDE COORDINATION STUDY OF NEW AND/OR NEW GEAR COMBINED WITH EXISTING GEAR DURING THE SUBMITTAL PROCESS.
13. SHOP DRAWINGS SHALL INCLUDE MANUFACTURER'S NAMES, CATALOG NUMBERS, CUTS, DIAGRAMS AND OTHER SUCH DESCRIPTIVE DATA AS MAY BE REQUIRED TO IDENTIFY AND REVIEW THE EQUIPMENT. SUBMITTALS SHALL BE IN LOGICAL GROUPS, FOR EXAMPLE, ALL LIGHTING FIXTURES, PARTIAL SUBMITTALS WILL NOT BE REVIEWED.
14. SUBMIT ELECTRONIC COPIES OF THE FOLLOWING SHOP DRAWINGS FOR REVIEW:
    A. SWITCH BOARD, PANELBOARDS, AND METERING EQUIPMENT
    B. DISCONNECTS
    C. LIGHT FIXTURES
    D. LIGHTING CONTROLS
    E. TRANSFORMERS
    F. PROVIDE "AS-BUILT" DRAWINGS AND SUBMIT TO ARCHITECT/DESIGNER.
15. PROVIDE THE FOLLOWING INFORMATION, PER CEC 2022 C130.0. TO THE PARTY RESPONSIBLE FOR PROJECT COMMISSIONING PLAN (COMMISSIONING AGENT/ MECHANICAL ENGINEER) AND ELECTRICAL ENGINEER:
    A. CUTSHEETS FOR ALL INSTALLED LIGHTING AND LIGHTING CONTROLS.
    B. OPERATION AND MAINTENANCE MANUALS FOR EACH PIECE OF INSTALLED LIGHTING, REQUIRED ROUTINE MAINTENANCE ACTIONS, CLEANING AND RECOMMENDED RELAMPING SHALL BE CLEARLY IDENTIFIED.
    C. SCHEDULE FOR INSPECTING AND RECALIBRATING ALL LIGHTING CONTROLS. INSPECTION OF ALL LIGHTING CONTROLS SHALL BE PERFORMED PRIOR TO ELECTRICAL ENGINEER'S COMMISSIONING SITE VISIT. RECALIBRATION OF LIGHTING CONTROLS SHALL BE PERFORMED FOLLOWING SITE VISIT AND SHALL BE BASED UPON THE RECOMMENDATIONS OF THE ELECTRICAL ENGINEER.
16. ALL MATERIAL, EQUIPMENT, WIRING DEVICES, ETC. SHALL BE NEW, UNLESS SPECIFICALLY INDICATED AS EXISTING TO BE REUSED.
17. CONTRACTOR SHALL OBTAIN AND VERIFY EXACT UTILITY COMPANY DRAWINGS AND REQUIREMENTS. ELECTRICAL CONTRACTOR IS TO SUBMIT A COMPLETE CONSTRUCTION DRAWING SET TO THE ELECTRICAL UTILITY COMPANY WITHIN 10 DAYS OF AWARD OF CONTRACT. COORDINATE TIMELINE OF THE REVIEW, APPROVAL, ALL ASSOCIATED DOWN TIME, CONSTRUCTION SCHEDULING, DELIVERY, AND INSTALLATION OF THE UTILITY TRANSFORMER. NOTIFY OWNER OF SCHEDULING CONFLICTS.
18. ALL NEW CIRCUIT BREAKERS FOR NEW OR EXISTING PANELBOARDS SHALL MATCH EXISTING BUILDING PANELBOARD MANUFACTURER AND BREAKER TYPE. THE CONTRACTOR SHALL PROVIDE NEW TYPE WRITTEN PANEL DIRECTORIES FOR ALL NEW PANELS AND EXISTING PANELS WHICH HAVE CHANGED. PANELBOARD SHALL BE MARKED WHERE THE SOURCE OF POWER SUPPLY ORIGINATES, AND IF SERIES COMBINATION SYSTEMS ARE UTILIZED AND THEIR LISTED AMPERE RATING.
19. DO NOT SHARE NEUTRAL CONDUCTORS FOR MULTIWIRE BRANCH CIRCUITS. WHERE SHARED NEUTRAL CONDUCTORS ARE REQUIRED (SUCH AS POWERED FURNITURE SYSTEMS), HANDLE TIES SHALL BE PROVIDED ON THE CIRCUIT BREAKERS, WITH SHARED NEUTRALS, SUCH THAT IT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS. ALL HANDLE TIES ARE REQUIRED TO BE INDICATED ON THE PANELBOARD SHOP DRAWINGS.
20. SHOULD ACTUAL FIELD CONDITIONS REQUIRE INDICATED CIRCUIT DESIGNATIONS TO VARY, INDICATE THE CIRCUIT NUMBER USED ON THE "AS-BUILT" DRAWINGS.
21. ALL SERVICE EQUIPMENT (OTHER THAN IN DWELLING UNITS) SHALL BE LEGIBLY MARKED IN THE FIELD BY THE ELECTRICAL CONTRACTOR WITH THE MAXIMUM AVAILABLE FAULT CURRENT AS INDICATED WITHIN THESE DOCUMENTS. THE FIELD MARKING(S) SHALL COMPLY WITH ELECTRICAL SPECIFICATIONS FOR READABILITY AND DURABILITY.
22. PROVIDE COMPLETE METAL RACEWAY SYSTEMS AND ENCLOSURES FOR ALL WIRING THROUGHOUT THE EXTENT OF THE REQUIRED DISTRIBUTION SYSTEM.
    A. UTILIZE RIGID POLYVINYL CHLORIDE CONDUIT (PVC) IN THE FOLLOWING LOCATIONS:
       - UNDERGROUND
    B. UTILIZE ELECTRICAL METALLIC TUBING (EMT), MINIMUM SIZE OF 3/4", IN THE FOLLOWING LOCATIONS:
       - SERVICE & FEEDERS
       - POWER CIRCUIT HOMERUN
       - BRANCH CIRCUITS IN CONCEALED OR EXPOSED LOCATIONS
       - TELEPHONE/DATA/CATV ROUGH-IN
    C. UTILIZE METAL-CLAD CABLE (MC) IN THE FOLLOWING LOCATIONS:
       - BRANCH CIRCUIT IN CONCEALED LOCATIONS
       - FINAL CONNECTION TO RECESSED LIGHTING FIXTURES
       - FINAL CONNECTION TO STEP-DOWN TRANSFORMERS
23. ALL NEW CIRCUITS SHALL HAVE A GROUND WIRE INSTALLED.
24. ALL WIRING NOT INSTALLED IN CONDUIT AND INSTALLED IN THE CEILING SPACE SHALL BE PLENUM RATED.
25. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SPECIAL OUTLET BOXES THAT MAY BE REQUIRED TO ENCLOSE RECEPTACLES.
26. EACH SWITCH, LIGHT, RECEPTACLE AND OTHER MISCELLANEOUS DEVICE SHALL BE PROVIDED WITH A GALVANIZED OR PRESSED STEEL OUTLET BOX OF THE KNOCKOUT TYPE, OF NOT LESS THAN NO. 14 U.S. GAUGE STEEL. CONDUITS SHALL BE FASTENED WITH LOCKNUTS AND BUSHINGS AND ALL UNUSED KNOCKOUTS MUST BE LEFT SEALED. THERE MUST BE SUFFICIENT ROOM FOR WIRES AND BUSHINGS AND DEEP BOXES SHALL BE INSTALLED WHERE REQUIRED. BOXES SHALL BE SECURELY AND ADEQUATELY SUPPORTED.
27. IN EXPOSED AND SUSPENDED CEILING APPLICATIONS, ROUTE CONDUIT AS CLOSE TO STRUCTURAL SLAB OR DECK AS POSSIBLE, AND SUPPORT CONDUIT AND JUNCTION BOXES DIRECTLY FROM THE STRUCTURAL SLAB, DECK, OR FRAMING PROVIDED FOR THAT PURPOSE. LIGHTING BRANCH CIRCUIT CONDUITS SHALL NOT BE CLIPPED TO THE CEILING SYSTEM UNLESS IT HAS BEEN SPECIFICALLY DESIGNED FOR THAT PURPOSE.
28. ALL EXPOSED CONDUIT SHALL BE CONCEALED TO THE GREATEST EXTENT POSSIBLE, AND SHALL BE INSTALLED PARALLEL AND CLOSE TO STRUCTURAL MEMBERS. GENERAL CONTRACTOR SHALL PAINT CONDUIT TO MATCH ADJACENT FINISHES.
29. WHERE FLOOR FITTINGS REQUIRE PENETRATION OF THE FLOOR SLAB, THEY SHALL BE STANDARD DEVICE LISTED BY UL FOR THE PURPOSE AND HAVE A UL FIRE RATING EQUAL TO THE FLOOR RATING. FLOOR SERVICE BOXES SHALL BE MODULAR, ADJUSTABLE FLUSH TYPE, DUAL SERVICE UNITS SUITABLE FOR WIRING METHOD USED. COMPARTMENT BARRIERS SHALL SEPARATE POWER FROM LOW VOLTAGE CABLING. PROVIDE RECTANGULAR SERVICE PLATE WITH SATIN FINISH.
30. ALL RECEPTACLES SHALL BE SPECIFICATION GRADE NEMA 5-20R, UNLESS OTHERWISE NOTED.
31. ALL LIGHT SWITCHES SHALL BE SPECIFICATION GRADE, QUIET OPERATION RATED 120/277 VOLT, 20 AMPS, UNLESS OTHERWISE NOTED.
32. ALL FACE PLATE AND DEVICE COLORS SHALL BE APPROVED BY ARCHITECT OR OWNER/LEASEE.
33. LUMINAIRES SHOWN AS SHADED SHALL BE PROVIDED WITH EMERGENCY BATTERY BACKUP POWER. EMERGENCY LUMINAIRES SHALL SENSE UNSWITCHED POWER TO THE SPACE AND OPERATE AUTOMATICALLY UPON LOSS OF NORMAL POWER. ALL SHADED LUMINAIRES WITH LED SOURCES SHALL BE PROVIDED WITH 90 MINS OF BACKUP POWER VIA INTEGRAL BATTERY OR EXTERNAL MINI/MICRO INVERTERS AS SPECIFIED IN THE LUMINAIRE SCHEDULE. ALL EMERGENCY LUMINAIRES WITH INTEGRAL BATTERY, EMERGENCY LIGHTING UNITS, AND INVERTERS SHALL HAVE INTEGRAL OR REMOTE TEST SWITCHES WITH VISIBLE INDICATOR LIGHTS, AS INDICATED IN THE FIXTURE SCHEDULE. THE EMERGENCY BATTERY OR INVERTER SHALL BE CONNECTED TO THE UNSWITCHED LEG OF THE LIGHTING CIRCUIT INDICATED TO DETECT THE LOSS OF NORMAL POWER.
34. CIRCUIT ALL EMERGENCY LIGHTING UNITS AND EXIT SIGNS TO NEAREST LOCAL AREA LIGHTING BRANCH CIRCUIT AHEAD OF ALL SWITCHLEGS, UNLESS OTHERWISE NOTED.
35. ALL DIMMED LIGHTING CIRCUITS ARE TO RECEIVE DEDICATED NEUTRALS. DO NOT SHARE NEUTRALS ON DIMMED LIGHTING CIRCUITS.
36. THE CONTRACTOR SHALL VERIFY THE CEILING TYPE BEFORE ORDERING LIGHTING FIXTURES.
37. ROUGH-IN FOR MECHANICAL EQUIPMENT SHALL ONLY OCCUR AFTER MECHANICAL EQUIPMENT SUBMITTALS ARE THOROUGHLY REVIEWED FOR CHANGES. NOTIFY ENGINEER OF ANY DISCREPANCIES.
38. EC SHALL COORDINATE ELECTRIC WATER COOLER RECEPTACLE PLACEMENT SUCH THAT THE RECEPTACLE IS ACCESSIBLE WITHIN THE WATER COOLER SHROUD, YET CONCEALED BY THE SHROUD PER NEC 422.33(A). PROVIDE 5mA GFCI CIRCUIT BREAKER IN ELECTRICAL PANEL PER NEC SECTION 422.
39. THE POWER AND CONTROL REQUIREMENTS FOR ALL EQUIPMENT CONNECTIONS SHALL BE CONFIRMED WITH APPROVED SHOP DRAWINGS PRIOR TO ELECTRICAL ROUGH-IN. FINAL POWER REQUIREMENTS, DIMENSIONED ROUGH-IN LOCATIONS, LOW VOLTAGE SYSTEM CONNECTIONS, ETC. SHALL BE CONFIRMED AND MODIFIED AS REQUIRED.
40. ALL DEVICES IN OR ABOVE COUNTERS SHALL HAVE LOCATIONS AND MOUNTING HEIGHTS CONFIRMED WITH ARCHITECTURAL ELEVATIONS & OWNER PRIOR TO ROUGH-IN. ANY ADJUSTMENTS TO MOUNTING HEIGHTS REQUIRED BY LACK OF COORDINATION WILL BE AT THE CONTRACTOR'S EXPENSE.
41. ALL EXISTING ELECTRICAL SERVICES NOT SPECIFICALLY INDICATED TO BE REMOVED OR ALTERED SHALL REMAIN AS THEY PRESENTLY EXIST.
42. G.C. SHALL INCLUDE IN THEIR COST THE REMOVAL OF ALL EXISTING ELECTRICAL DEVICES, CONDUITS, FIXTURES AND EQUIPMENT. TURN EQUIPMENT OVER TO OWNER AS INDICATED OR RECYCLE/DISCARD ALL EQUIPMENT AS REQUIRED. E.C. SHALL BE RESPONSIBLE FOR DISCONNECTING PRIMARY SERVICE AND TEMPORARY POWER.
43. WHERE EXISTING CEILINGS ARE REVISED FROM ACCESSIBLE TO NON-ACCESSIBLE, CONTRACTOR IS TO INCLUDE IN THEIR BID THE COSTS ASSOCIATED WITH RELOCATING ALL ELECTRICAL EQUIPMENT REQUIRING ACCESS ABOVE THE EXISTING CEILING TO A NEW ACCESSIBLE CEILING LOCATION APPROVED BY ARCHITECT AND ENGINEER. THE USE OF ACCESS PANELS IN THE NEW CEILING TO AVOID RELOCATION OF THIS EQUIPMENT IS NOT ACCEPTABLE.
44. CONTRACTOR TO CONDUCT FUNCTIONAL TESTING OF LIGHTING CONTROLS EQUIPMENT AS REQUIRED BY CEC 2022, SECTION C130.4. AFTER THIS TESTING IS OBSERVED AND COMPLETED, THE REGISTERED DESIGN PROFESSIONAL OR COMMISSIONING AUTHORITY SHALL PROVIDE DOCUMENTATION TO THE AHJ THAT CERTIFIES THAT THE INSTALLATION MEETS THE DOCUMENTED PERFORMANCE CRITERIA OF SECTION C405. TO INQUIRE ABOUT CERTIFIED COMMISSIONING SERVICES PROVIDED BY AE DESIGN, INC. CALL (303) 296-3034.
45. IDENTIFY EACH RECEPTACLE WITH PANELBOARD IDENTIFICATION AND CIRCUIT NUMBER. USE HOT, STAMPED, OR ENGRAVED MACHINE PRINTING WITH BLACK-FILLED LETTERING ON FACE OF PLATE, AND DURABLE WIRE MARKERS OR TAGS INSIDE OUTLET BOXES.
46. UNLESS OTHERWISE NOTED, ALL GFCI RECEPTACLES SHALL HAVE TEST/RESET SWITCHES INTEGRAL TO RECEPTACLE DEVICE.



NOTES:

1. WHERE MULTIPLE LINE VOLTAGE DEVICES ARE SHOWN ADJACENT TO EACH OTHER, THEY ARE ALL TO SHARE THE SAME JUNCTION BOX, UP TO FOUR GANGS.
2. WHERE MORE THAN FOUR DEVICES ARE SHOWN ADJACENT TO EACH OTHER, DEVICES ARE TO STACK VERTICALLY ABOVE ONE ANOTHER IN TWO ROWS IN AS SMALL OF GANG BOXES AS POSSIBLE. I.E. SIX DEVICES WILL USE TWO THREE GANG BOXES, FIVE DEVICES WILL USE ONE THREE GANG AND ONE TWO GANG BOX. WHEN DIMMERS ARE GANGED TOGETHER, REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR DE-RATING.
3. BACK-TO-BACK JUNCTION BOXES IN COMMON WALLS ARE NOT PERMITTED. JUNCTION BOXES SHALL BE SEPARATED BY AT LEAST ONE STUD WHEREVER POSSIBLE.
4. AUDIBLE/VISUAL FIRE ALARM DEVICES SHOWN ARE TO BE MOUNTED AT 90" OR 6" BELOW CEILING, WHICHEVER IS LOWER. ADA STROBES TO BE MOUNTED AT 80" AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER.
5. MAXIMUM ELEVATION FOR ALL LOAD CENTER CIRCUIT BREAKERS SHALL NOT EXCEED 48" AFF, WITHIN DWELLING UNITS.
6. THE E.C. SHALL REFER TO ARCHITECTURAL ELEVATIONS TO COORDINATE ALL COUNTER HEIGHTS. ALL "AC" DEVICES SHALL HAVE BOTTOM OF BACK-BOX MOUNTED 4" ABOVE THE BACK/SIDE SPLASH.

1 | DEVICE MOUNTING HEIGHT
E0.0 | NTS



CONNECT STRUCTURAL REINFORCING STEEL GRID WITHIN POOL AND/OR PERIMETER POOL DECK TO UNDERWATER LIGHTING, METAL FITTINGS, ELECTRICAL EQUIPMENT, AND METAL WIRING METHODS AND EQUIPMENT IN ACCORDANCE WITH ARTICLE 680 OF THE NATIONAL ELECTRIC CODE. CONNECT WITH MINIMUM #8 SOLID AWG BARE COPPER. REFER TO DETAIL NOTE #3 ABOVE FOR CONNECTION REQUIREMENTS. (TYPICAL)

2 | POOL BONDING DETAIL
E0.0 | NTS

POOL BONDING REQUIREMENTS

1.	ALL GROUNDING AND BONDING OF ALL METALLIC PARTS ASSOCIATED WITH THE POOL AND WHIRLPOOL ARE TO BE IN COMPLIANCE WITH 2023 NEC SECTION 680.
2.	STRUCTURAL REINFORCING STEEL TERMINOLOGY IN NOTES BELOW REFERS TO REBAR OR WIREMESH INSTALLATIONS.
3.	BONDING TO CONDUCTIVE POOL SHELLS SHALL BE ACCOMPLISHED WITH REINFORCING STEEL BONDED WITH STEEL TIE WIRES, OR EQUAL, AND SHALL THEREBY SERVE AS A COMMON BONDING GRID FOR ALL PARTS REQUIRED TO BE BONDED TOGETHER. WHERE EPOXY-COATED REBAR IS UTILIZED, THEN A COPPER CONDUCTOR GRID SYSTEM SHALL BE INSTALLED, WITH MINIMUM #8 AWG BARE SOLID CONDUCTORS BONDED AT ALL CROSS POINT, CONFORM TO THE CONTOUR OF THE POOL, BE ARRANGED IN A 12" X 12" GRID PATTERN, AND BE SECURED WITHIN OR UNDER THE POOL NO MORE THAN 6" FROM THE OUTER CONTOUR OF THE POOL.
4.	BONDING TO PERIMETER SURFACES SHALL BE ACCOMPLISHED WITH REINFORCING STEEL REBAR BONDED WITH STEEL TIE WIRES, OR EQUAL. WHERE EPOXY-COATED REBAR IS UTILIZED, THEN A SINGLE #8 AWG COPPER, BARE, SOLID CONDUCTOR SHALL BE INSTALLED 18" TO 24" WITHIN THE INSIDE WALL OF THE POOL, AND WITHIN 4" TO 6" UNDER THE SURFACE.
5.	ISOLATED PARTS THAT ARE NOT MORE THAN 4" IN ANY DIMENSION AND DO NOT GENETRATE INTO THE POOL STRUCTURE MORE THAN 1" SHALL NOT REQUIRE BONDING.
6.	BONDING CONDUCTORS SHALL BE MINIMUM #8 SOLID COPPER, INSULATED. E.C. SHALL COORDINATE APPROVED CONNECTOR TYPE AND METHOD WITH LOCAL ELECTRICAL AND/OR POOL INSPECTOR.
7.	SPECIFIC MANUFACTURER'S INSTRUCTIONS REGARDING BONDING OR GROUNDING OF POOL EQUIPMENT, WHETHER INDICATED HEREIN OR NOT, SHALL BE STRICTLY FOLLOWED.
8.	THE COMMON BONDING GRID SHALL NOT BE CONNECTED TO ANY ELECTRICAL DISTRIBUTION EQUIPMENT.
9.	ANY PARTS IN ADDITION TO THOSE DESCRIBED HEREIN THAT ARE INDICATED BY POOL CONTRACTOR OR LOCAL INSPECTION AUTHORITY SHALL BE BONDED TO THE COMMON BONDING GRID WITH NO ADDITIONAL COSTS INCURRED BY THE OWNER.
10.	ROPE ANCHORS WHICH ARE ATTACHED TO A STAINLESS STEEL GUTTER ARE INTERNALLY BONDED TO GUTTER AND SO DO NOT REQUIRE ADDITIONAL BONDING.
11.	THE ELECTRICAL CONTRACTOR SHALL COORDINATE BONDING WITH POOL CONTRACTOR AND GENERAL CONTRACTOR.
12.	THE FOLLOWING PARTS SHALL BE BONDED TOGETHER AND CONNECTED TO THE COMMON BONDING GRID. BONDING LUGS SHALL BE SUPPLIED BY POOL CONTRACTOR.
A.	ALL METALLIC PARTS OF THE POOL STRUCTURE, INCLUDING COPYING STONES, DECK, PERMANENT PLAY STRUCTURES, PERMANENT EXERCISE STRUCTURES.
B.	ALL METAL FITTINGS WITHIN OR ATTACHED TO THE POOL STRUCTURE.
C.	METAL PARTS ASSOCIATED WITH THE POOL WATER CIRCULATING SYSTEM, INCLUDING PUMPS, FILTERS, AND HEATERS.
D.	METAL PARTS ASSOCIATED WITH POOL COVERS.
E.	METAL SHEATHED CABLES AND RACEWAYS, METAL PIPING, AND ALL FIXED METAL PARTS WITHIN 5 FEET HORIZONTALLY OF INSIDE WALLS OF POOL AND WITHIN 12 FEET ABOVE THE MAXIMUM WATER LEVEL OF THE POOL.
F.	METAL PARTS ASSOCIATED WITH OBSERVATION STANDS, TOWERS, PLATFORMS, AND DIVING STRUCTURES.
G.	METAL PARTS ASSOCIATED WITH THE POOL SLIDE TOWER, SLIDE STAIRS, AND ASSOCIATED SLIDE STRUCTURE.

DESIGN BASIS CODES

CALIFORNIA SPECIFIC
2022 CALIFORNIA BUILDING CODE
2022 CALIFORNIA ELECTRIC CODE
2022 CALIFORNIA ENERGY CODE
2022 CALIFORNIA FIRE CODE
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

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BARKER RINKER SEACAT ARCHITECTURE

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

ELECTRICAL COVER SHEET

E0.0

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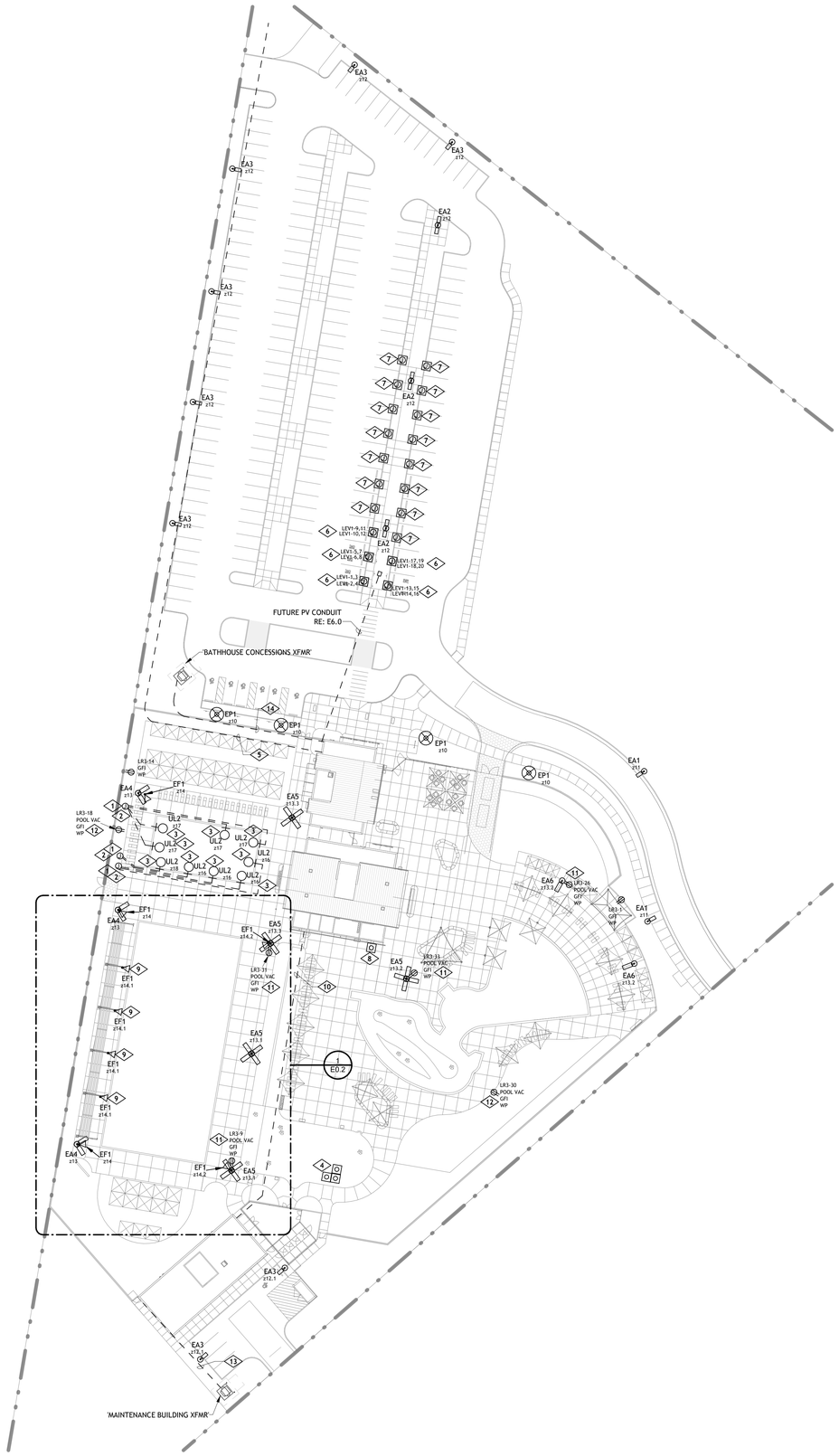
1/22/2025 1:07:01 PM Autodesk Docs://Chico CA Aquatics Center/6288.00 - Chico Aquatics - Electrical Central.rvt

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE PLOTTING. ADJUST ACCORDINGLY.

IF BLACK AND WHITE LETTERS ARE NOT VISIBLE, THE SQUARES ABOVE ARE COLOR.



1 | ELECTRICAL SITE PLAN
E0.1 | 1" = 40'-0"

NORTH

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
1	LOCATION OF JUNCTION BOX FOR CONNECTION TO THE WET NICHE UNDERWATER LIGHTING FIXTURE(S). JUNCTION BOX SHALL BE CORROSION RESISTANT AND LISTED FOR POOL USE. LOCATE THE JUNCTION BOX A MINIMUM OF 18" ABOVE THE ASSOCIATE ADJACENT WATER LEVEL, WITH A MAXIMUM DISTANCE OF 100FT FROM THE ASSOCIATED UNDERWATER WET NICHE, AS INDICATED ON THE PLANS. THE COMPLETE INSTALLATION SHALL COMPLY WITH ALL REQUIREMENTS OT THE NATIONAL ELECTRIC CODE ARTICLE #680. REFER TO DETAIL NOTES #1 AND #3 FOR MORE INFORMATION.
2	PC SHALL PROVIDE 120V-12V TRANSFORMER FOR WET NICHE LIGHTING. EC SHALL INSTALL AND WIRE TRANSFORMER PER MANUFACTURER'S RECOMMENDATIONS. INSTALLATION SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE ARTICLE #680. REFER TO DETAIL NOTE #1 AND #2, THIS SHEET, FOR ADDITIONAL INFORMATION. EC SHALL COORDINATE LOCATION OF TRANSFORMER WITH THE OWNER AND ARCHITECT PRIOR TO START OF ROUGH-IN.
3	LOCATION OF POOL WET NICHE FOR UNDERWATER LIGHT FIXTURE INSTALLATION. WET NICHE SHALL BE FURNISHED BY THE POOL CONTRACTOR (PC) AND GROUNDED BY THE ELECTRICAL CONTRACTOR (EC). WET NICHE COMPLIANT UNDERWATER LIGHTING FIXTURE WITH CORD ATTACHED, SHALL BE PROVIDED BY THE PC, AND INSTALLED BY THE EC. REFER TO THE LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION. THE EC SHALL PROVIDE 1-INCH WATERTIGHT CORROSION RESISTANT CONDUIT RACEWAY FROM THE LIGHT NICHE TO THE ADJACENT JUNCTION BOX AS INDICATED ON THE PLANS. THE PC SHALL PROVIDE THE WET NICHE FIXTURE WITH REQUIRED CORD LENGTH(S) FOR DISTANCES BETWEEN THE INDIVIDUAL WET NICHE AND THE ASSOCIATED POOL JUNCTION BOX LOCATIONS. THE EC SHALL PROVIDE #8 COPPER GROUND WITH THE FIXTURE PROVIDED TYPE-SO CORD FOR FIXTURE GROUNDING. THE COMPLETE INSTALLATION SHALL COMPLY WITH ALL REQUIREMENTS OF THE NATIONAL ELECTRIC CODE ARTICLE #680. REFER TO DETAIL NOTE #2 AND #3 THIS SHEET FOR ADDITIONAL INFORMATION.
4	AT THIS LOCATION, EC SHALL PROVIDE EMERGENCY STOP BUTTON (EPO) WITH CLEAR PLASTIC SAFETY COVER FOR AUTOMATIC SHUT DOWN OF ALL ACTIVITIES PUMPS ASSOCIATED WITH THE SLIDES (P2A, P4C, AND P5C). PROVIDE (1) EPO BUTTON PER SLIDE PUMP. CONFIRM EXACT LOCATION WITH AQUATICS DESIGNER AND ARCHITECT PRIOR TO ROUGH-IN.
5	APPROXIMATE ROUTING OF NEW UNDERGROUND CONDUITS FOR TELECOMMUNICATIONS TO BATHHOUSE AND FACILITIES BUILDING. REFER TO DETAIL #2/E6.1 FOR ADDITIONAL DETAILS. COORDINATE EXACT ROUTING WITH CIVIL ENGINEER AND UTILITY PROVIDER.
6	DUAL-PORT ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE) INSTALLED SPACE. EC SHALL PROVIDE PEDESTAL/BOLLARD MOUNTED DUAL PORT, LEVEL 2, ELECTRIC VEHICLE CHARGING STATION. PROVIDE (2) SEPARATE DEDICATED 40-AMP, 208V, 1-PHASE ELECTRICAL CONNECTIONS (2#6, 1#8G, 1-1/4"C EACH), ROUTED FROM PANEL INDICATED TO STUB-UP LOCATION AT NEW DUAL PORT CHARGING STATION. EC SHALL COORDINATE EXACT PEDESTAL LOCATION BETWEEN (2) ADJACENT PARKING STALLS WITH ARCHITECT/OWNER IN FIELD PRIOR TO INSTALLATION. ARCHITECT SHALL VERIFY EQUIPMENT LOCATION AND SET-BACK DISTANCE FROM CURB WITH PARKING STALL CLEARANCE AS REQUIRED TO AVOID POTENTIAL DAMAGE FROM VEHICULAR IMPACT. CIRCUIT AS INDICATED. EC SHALL COORDINATE EXACT INSTALLATION REQUIREMENTS WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO COMMENCING WORK.
7	PROVIDE 1-1/4" CONDUIT WITH PULL STRING FROM MAIN ELECTRICAL ROOM 124 TO LOCATION SHOWN FOR FUTURE EV CHARGING STATION. CONDUIT AND JUNCTION BOXES AT EACH END SHALL BE SEALED AND LABELED AS "EV CAPABLE FOR FUTURE USE". AT LOCATION OF FUTURE EV CHARGING BOLLARD, PROVIDE FLUSH TO GRADE JUNCTION BOX WITH COVER FOR CONDUIT TO STUB INTO. IN MAIN ELECTRICAL ROOM, CONDUITS SHALL TERMINATE INSIDE WALL-MOUNTED JUNCTION BOX MARKED 'FUTURE EV'. LOCATED ADJACENT TO PANEL 'LEV2'.
8	AT THIS LOCATION, EC SHALL PROVIDE EMERGENCY STOP BUTTON (EPO) WITH CLEAR PLASTIC SAFETY COVER FOR AUTOMATIC SHUT DOWN OF ALL ACTIVITIES PUMPS ASSOCIATED WITH THE LEISURE POOL (P2C, P3C, P6C, AND P7C). CONFIRM EXACT LOCATION WITH AQUATICS DESIGNER AND ARCHITECT PRIOR TO ROUGH-IN.
9	EC SHALL MOUNT INDICATED FLOOD LIGHT TO SHADE STRUCTURE. COORDINATE EXACT MOUNTING DETAILS WITH ARCHITECT/LANDSCAPE ARCHITECT PRIOR TO PROCUREMENT. FIXTURE SHALL BE MOUNTED TO THE SHADE STRUCTURE AT 14'-0" BOF AND TILTED 75 DEGREES FROM NADIR.
10	APPROXIMATE ROUTING OF NEW UNDERGROUND CONDUITS FOR TELECOMMUNICATIONS TO POOL MECHANICAL BUILDING. REFER TO DETAIL #2/E6.1 FOR ADDITIONAL DETAILS. COORDINATE EXACT ROUTING WITH CIVIL ENGINEER AND UTILITY PROVIDER.
11	PROVIDE NEMA 5-20R RECEPTACLE FOR CORD AND PLUG POWER CONNECTION TO OWNER PROVIDED PORTABLE VACUUM SYSTEM. RECEPTACLE SHALL BE PROTECTED WITH 30MA GFCI BREAKER. HINGED WATERTIGHT OUTLET BOX HOOD SHALL BE LISTED FOR 'EXTRA DUTY' PER NEC 406.9(B)(1). EC SHALL COORDINATE EXACT NEMA CONFIGURATION, LOCATION, AND MOUNTING REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.
12	EC SHALL INSTALL PEDESTAL MOUNTED NEMA 5-20R RECEPTACLE FOR CORD AND PLUG POWER CONNECTION TO OWNER PROVIDED PORTABLE VACUUM SYSTEM. RECEPTACLE SHALL BE PROTECTED WITH 30MA GFCI BREAKER. HINGED WATERTIGHT OUTLET BOX HOOD SHALL BE LISTED FOR 'EXTRA DUTY' PER NEC 406.9(B)(1). EC SHALL COORDINATE EXACT NEMA CONFIGURATION, LOCATION, AND MOUNTING REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.
13	APPROXIMATE ROUTING OF NEW UNDERGROUND CONDUITS FROM UTILITY TRANSFORMER TO BUILDING. COORDINATE EXACT ROUTING WITH CIVIL ENGINEER AND UTILITY PROVIDER. EC SHALL AVOID CONFLICT WITH LIGHT POLE BASE.
14	APPROXIMATE ROUTING OF NEW UNDERGROUND CONDUITS FROM UTILITY TRANSFORMER TO BUILDING. COORDINATE EXACT ROUTING WITH CIVIL ENGINEER AND UTILITY PROVIDER.

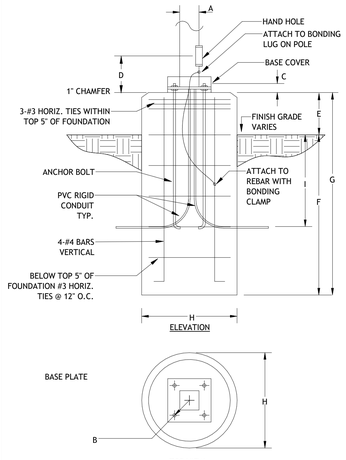
SITE GENERAL NOTES

A.	UNDERGROUND SITE LIGHTING BRANCH CIRCUITS INCLUDING THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE UPSIZED TO ACCOMMODATE VOLTAGE DROP PER NEC 250.122(B). RUN (2)#10, & 1#10G)1"C FOR A 20A BRANCH CIRCUIT.
B.	REFER TO DETAIL 2, SHEET E0.0 FOR POOL BONDING REQUIREMENTS. ALL BONDING SHALL BE IN COMPLIANCE WITH NEC SECTION 680.
C.	PROVIDE ADDITIONAL 1-1/4" CONDUIT TO EACH LIGHT POLE IN THE POOL DECK FOR VIDEO SURVEILLANCE AND PAGING SYSTEM CABLING. COORDINATE EXACT LOW VOLTAGE SYSTEM NEEDS AND DEVICE MOUNTING HEIGHTS ON LIGHT POLES WITH VENDORS. ROUTE CONDUITS BACK TO THE NEAREST BUILDING AND STUB UP TO ABOVE ACCESSIBLE CEILING. DO NOT RUN LOW VOLTAGE CABLING WITH LINE VOLTAGE WIRING.

SITE SEQUENCE OF OPERATIONS

THE FOLLOWING CONTROL SEQUENCE OF OPERATIONS ARE UTILIZED IN THIS PLAN. REFER TO PLAN AND/OR ZONE/RELAY SCHEDULE FOR SPECIFIC ASSOCIATED SEQUENCE.

ET1 ET2



POLE KEY	OVERALL HEIGHT	A	ANCHOR BOLT DATA (B) (SIZE) (C) (D)	E	F	G	H	I
EA1	25' - 0"	4"	PER MANUFACTURER	2' - 6"	8' - 0"	10' - 6"	24"	36"
EA2	20' - 0"	4"	PER MANUFACTURER	0' - 0"	8' - 0"	8' - 0"	24"	36"
EA3	25' - 0"	4"	PER MANUFACTURER	2' - 6"	8' - 0"	10' - 6"	24"	36"
EA4	20' - 0"	4"	PER MANUFACTURER	0' - 0"	8' - 0"	8' - 0"	24"	36"
EA5	20' - 0"	4"	PER MANUFACTURER	0' - 0"	8' - 0"	8' - 0"	24"	36"
EA6	20' - 0"	4"	PER MANUFACTURER	0' - 0"	8' - 0"	8' - 0"	24"	36"
EP1	14' - 0"	4"	PER MANUFACTURER	0' - 6"	6' - 0"	6' - 6"	24"	36"

2 | POLE BASE DETAIL
E0.1 | N.T.S.

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BARKER RINKER SEACAT ARCHITECTURE

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Revision Schedule

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1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

ELECTRICAL SITE PLAN

E0.1

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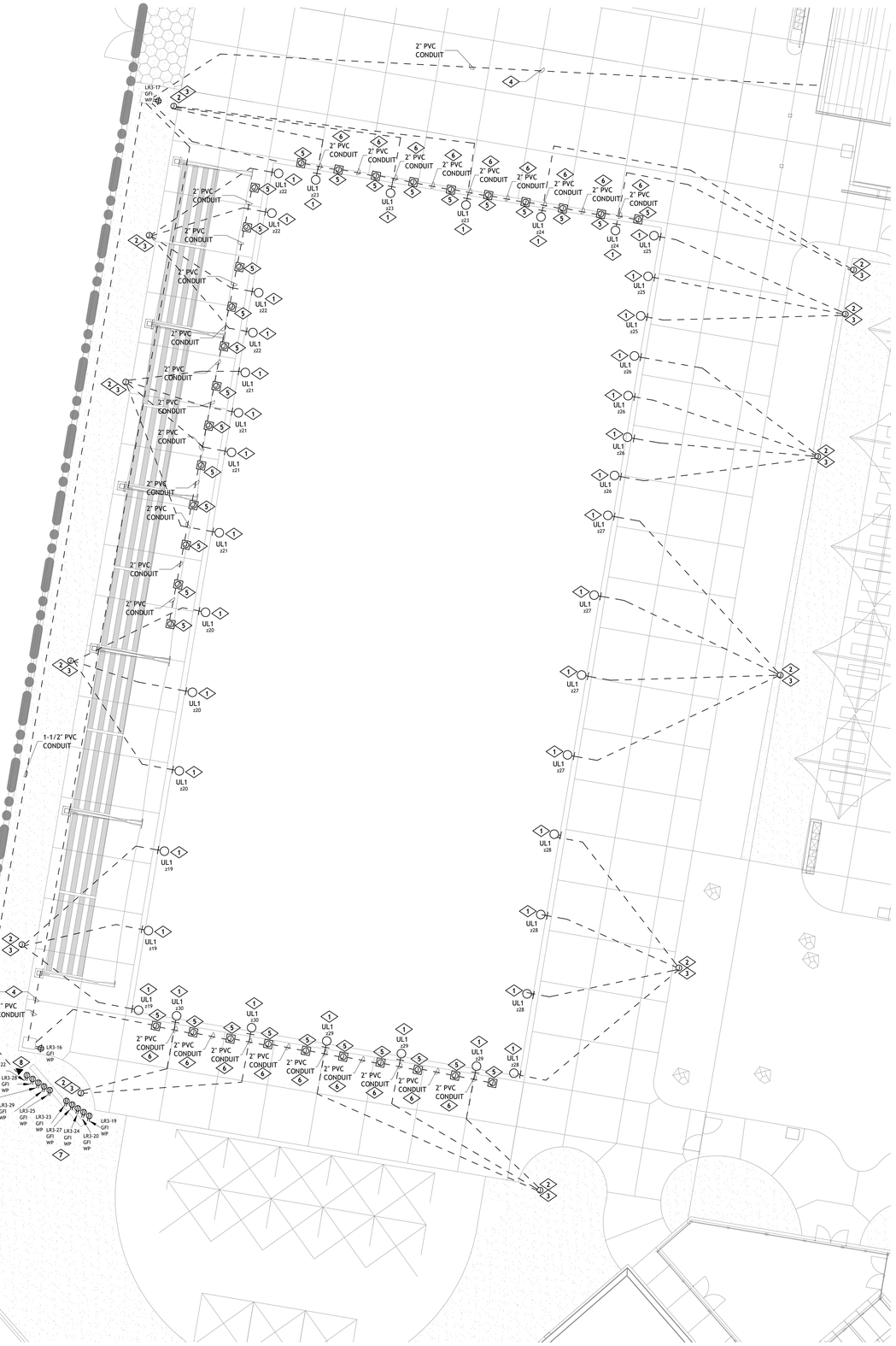

1 | ELECTRICAL SITE PLAN - ENLARGED POOL AREA
E0.2 | 1" = 10'-0"

NORTH

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
1	LOCATION OF POOL WET NICHE FOR UNDERWATER LIGHT FIXTURE INSTALLATION. WET NICHE SHALL BE FURNISHED BY THE POOL CONTRACTOR (PC) AND GROUNDED BY THE ELECTRICAL CONTRACTOR (EC). WET NICHE COMPLIANT UNDERWATER LIGHTING FIXTURE WITH CORD ATTACHED, SHALL BE PROVIDED BY THE PC, AND INSTALLED BY THE EC. REFER TO THE LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION. THE EC SHALL PROVIDE 1-INCH WATERTIGHT CORROSION RESISTANT CONDUIT RACEWAY FROM THE LIGHT NICHE TO THE ADJACENT JUNCTION BOX AS INDICATED ON THE PLANS. THE PC SHALL PROVIDE THE WET NICHE FIXTURE WITH REQUIRED CORD LENGTH(S) FOR DISTANCES BETWEEN THE INDIVIDUAL WET NICHE AND THE ASSOCIATED POOL JUNCTION BOX LOCATIONS. THE EC SHALL PROVIDE #8 COPPER GROUND WITH THE FIXTURE PROVIDED TYPE-SO CORD FOR FIXTURE GROUNDING. THE COMPLETE INSTALLATION SHALL COMPLY WITH ALL REQUIREMENTS OF THE NATIONAL ELECTRIC CODE ARTICLE #680. REFER TO DETAIL NOTE #2 AND #3 THIS SHEET FOR ADDITIONAL INFORMATION.
2	LOCATION OF JUNCTION BOX FOR CONNECTION TO THE WET NICHE UNDERWATER LIGHTING FIXTURE(S). JUNCTION BOX SHALL BE CORROSION RESISTANT AND LISTED FOR POOL USE. LOCATE THE JUNCTION BOX A MINIMUM OF 18" ABOVE THE ASSOCIATE ADJACENT WATER LEVEL, WITH A MAXIMUM DISTANCE OF 100FT FROM THE ASSOCIATED UNDERWATER WET NICHE, AS INDICATED ON THE PLANS. THE COMPLETE INSTALLATION SHALL COMPLY WITH ALL REQUIREMENTS OT THE NATIONAL ELECTRIC CODE ARTICLE #680. REFER TO DETAIL NOTES #1 AND #3 FOR MORE INFORMATION.
3	PC SHALL PROVIDE 120V-12V TRANSFORMER FOR WET NICHE LIGHTING. EC SHALL INSTALL AND WIRE TRANSFORMER PER MANUFACTURER'S RECOMMENDATIONS. INSTALLATION SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE ARTICLE #680. REFER TO DETAIL NOTE #1 AND #2, THIS SHEET, FOR ADDITIONAL INFORMATION. EC SHALL COORDINATE LOCATION OF TRANSFORMER WITH THE OWNER AND ARCHITECT PRIOR TO START OF ROUGH-IN.
4	APPROXIMATE ROUTING OF NEW UNDERGROUND CONDUITS FOR TELECOMMUNICATIONS TO POOL TIMING SYSTEM. REFER TO DETAIL #2/E6.1 FOR ADDITIONAL DETAILS. COORDINATE EXACT ROUTING WITH CIVIL ENGINEER AND UTILITY PROVIDER.
5	PROVIDE 4"X4"X6" JUNCTION BOX FOR POOL TIMING DECK PLATE. COORDINATE EXACT REQUIREMENTS AND LOCATION WITH TIMING SYSTEM APPROVED SHOP DRAWINGS PRIOR TO ROUGH-IN.
6	CONDUIT FOR CONTROL/SIGNAL WIRING BETWEEN TIMING SYSTEM JUNCTION BOXES SHALL BE PROVIDED BY EC, SIZES AS INDICATED. FINAL CONDUIT REQUIREMENTS AND SIZING SHALL BE COORDINATED WITH TIMING SYSTEM FINAL APPROVED SHOP DRAWING REQUIREMENTS.
7	EC SHALL PROVIDE (5) 120V, 20A RECEPTACLES FOR POWER TO SCOREBOARD. COORDINATE EXACT REQUIREMENTS AND MOUNTING HEIGHTS WITH APPROVED SCOREBOARD SHOP DRAWINGS PRIOR TO ROUGH-IN.
8	PROVIDE SINGLE GANG PVC JUNCTION BOX AT HEIGHT OF SCOREBOARD FOR SCOREBOARD DATA INPUT. COORDINATE EXACT REQUIREMENTS AND LOCATION WITH TIMING SYSTEM APPROVED SHOP DRAWINGS PRIOR TO ROUGH-IN.

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Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

ELECTRICAL SITE PLAN - ENLARGED POOL AREA

E0.2

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Project #: 6288

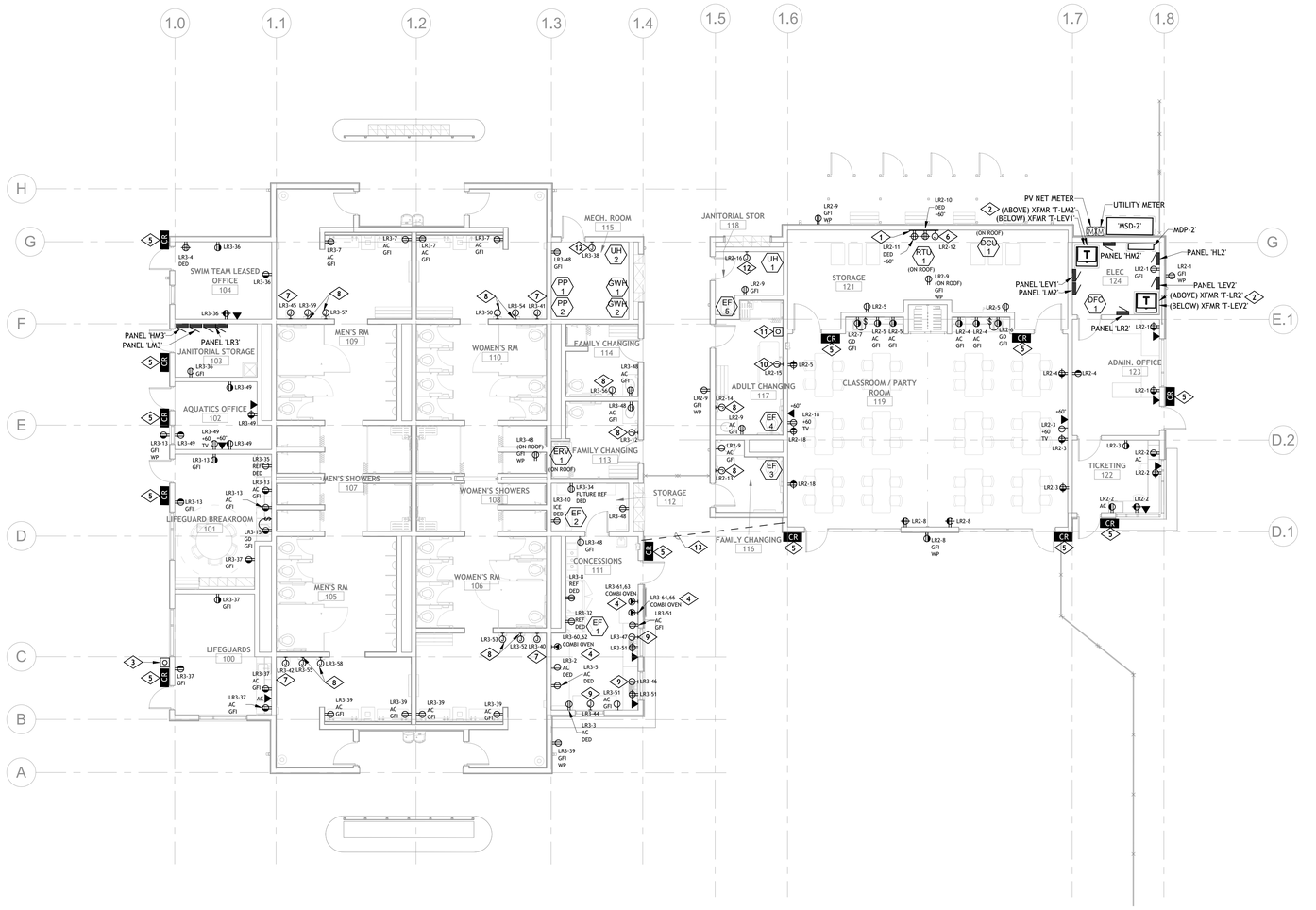
THE LINE SHOWN ABOVE IS 1" LONG WHEN PLOTTED AT EXACTLY ONE INCH. ONLY IF THIS NOTE IS ONE INCH LONG. IF THIS NOTE IS NOT ONE INCH LONG, ADJUST ACCORDINGLY.

THIS SQUARED ABOVE ARE COLOR WITH BLACK AND WHITE LETTERS, WHEN PLOTTED ON ANSI D PAPER.

plot to .pdf in color
for paper size, use 24x36
scale drawings accordingly

File Location: T:\Projects\2023\23030_Chico Aquatic and Recreation Facility\23030_WORKING\AUTOCAD\SHEETS\DWG\2 OVERALL PLAN / SAVE DATE: 3/5/2024 4:18 PM BY: jhesterdoo / PLOT DATE: 1/20/2023 2:45 PM BY: Jin He-Candido

1/22/2025 1:07:03 PM Autodesk Docs://Chico CA Aquatics Center/6288.00 - Chico Aquatics - Electrical Central.rvt



1 | ELECTRICAL POWER PLAN - BATHHOUSE AND FACILITIES
E1.0 | 1/8" = 1'-0"

NORTH

POWER GENERAL NOTES

A.	ALL WIRING ROUTED WITHIN THIS ROOM SHALL BE WITHIN NON-METALLIC CONDUIT (SCHEDULE 40 PVC).
B.	ALL RECEPTACLE DEVICES LOCATED WITHIN POOL MECHANICAL ROOM SHALL BE GFI, PROVIDED WEATHERPROOF WHILE-IN-USE COVERS, UNLESS OTHERWISE NOTED.
C.	ALL DEVICES WITHIN POOL DECK AND POOL AREAS SHALL BE CORROSION RESISTANCE RECEPTACLES. REFER TO BUILDING ENGINEER'S SPECIFICATIONS AND DRAWINGS FOR SPECIFIC REQUIREMENTS.
D.	EQUIPMENT AT THE POOL DECK AREAS SHALL BE BONDED AS REQUIRED BY NEC. REFER TO DETAIL #2/E0.0 FOR MORE INFORMATION AND SPECIFIC REQUIREMENTS. REFER TO E-SERIES SHEETS FOR ADDITIONAL EQUIPMENT.
E.	EC TO INCLUDE CONSTRUCTION COST ASSOCIATED WITH COMPLYING WITH TITLE 24 AND SPECIFICALLY THE CONTROLLED RECEPTACLES. CONTROLLED SWITCHED RECEPTACLES INDICATED ON PLANS ARE TO BE PROVIDED FOR ALL ENCLOSED OFFICES, WORKSTATIONS, AND BREAK ROOM SPACES AS APPLICABLE. REFER TO DETAILS #2 AND # 3 ON SHEET E8.1 FOR DESIGN INTENT OF RESPECTIVE CONTROLLED RECEPTACLES. A MINIMUM OF 50% OF PERMANENTLY INSTALLED RECEPTACLES ARE TO BE CONTROLLED VIA EITHER A LOCAL ROOM CONTROLLER BASED SYSTEM USING THE LIGHTING CONTROL SENSORS, OR VIA A LIGHTING RELAY PANEL.
F.	RECEPTACLES WITHOUT CIRCUIT DESIGNATION ARE ASSOCIATED WITH POOLEQUIPMENT AND SHOWN FOR CONSTRUCTION COORDINATION. REFER TO THE POOL EQUIPMENT SCHEDULE, SHEET E7.0, FOR EQUIPMENT CIRCUITS AND ADDITIONAL INFORMATION.

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
1	EC SHALL PROVIDE PLYWOOD BACKBOARD AT MDF LOCATION. BACKBOARD SHALL BE A MINIMUM OF 3/4" THICK, 4' WIDE AND 3' TALL, WITH THE BOTTOM OF THE BOARD MOUNTED 6' ABOVE THE FINISHED FLOOR WITH THE BEST SIDE TOWARD THE ROOM. PLYWOOD SHALL BE A/C GRADE AND FINISHED WITH TWO COATS OF FIRE-RETARDANT PAINT. PLYWOOD SHALL BE PERMANENTLY FASTENED TO THE WALL BY MEANS OF WALL ANCHORS UTILIZING GALVANIZED, ZINC PLATED OR STAINLESS STEEL HARDWARE WITH A FLAT HEAD. FINISHED INSTALLATION SHALL HAVE A FLUSH APPEARANCE WITH COUNTERSUNK SCREW HEADS TO PREVENT SPLITTING OF THE PLYWOOD. DRYWALL SCREWS ARE NOT ACCEPTABLE. REFER TO DETAIL #2/E6.1 FOR MORE INFORMATION.
2	PROVIDE A CEILING SUSPENDED TRANSFORMER NO LESS THAN 24" ABOVE FLOOR MOUNTED TRANSFORMER. PROVIDE NECESSARY REINFORCEMENTS FOR A 700 LBS CEILING SUSPENDED TRANSFORMER. MAINTAIN 3FT CLEARANCE ABOVE CEILING SUSPENDED TRANSFORMER FOR MANUFACTURER VENTILATION REQUIREMENTS.
3	AT THIS LOCATION, EC SHALL PROVIDE EMERGENCY STOP BUTTON (EPO) WITH CLEAR PLASTIC SAFETY COVER FOR AUTOMATIC SHUT DOWN OF ALL ACTIVITIES PUMPS ASSOCIATED WITH THE LEISURE POOL (P2C, P3C, P4C, AND P7C). CONFIRM EXACT LOCATION WITH AQUATICS DESIGNER AND ARCHITECT PRIOR TO ROUGH-IN.
4	EC SHALL PROVIDE NEMA 6-20R RECEPTACLE FED WITH 2#12, 1#12G, 3/4"C FOR 208V, 1PH 16A CORD & PLUG CONNECTION TO COMBINATION OVEN. EC SHALL COORDINATE EXACT LOCATION AND CONNECTION TYPE WITH APPROVED SHOP DRAWINGS PRIOR TO ROUGH-IN.
5	EC SHALL PROVIDE SINGLE GANG BOX WITH 1"C TO STUB OUT ABOVE ACCESSIBLE CEILING FOR CARD READER INSTALLATION AND ASSOCIATED CABLING RACEWAY. EC SHALL COORDINATE EXACT LOCATION AND ELEVATION WITH SECURITY VENDOR SHOP DRAWINGS PRIOR TO ROUGH-IN.
6	EC SHALL PROVIDE CONDUIT FOR SECURITY PANEL, COORDINATE EXACT LOCATION, ELEVATION, AND POWER REQUIREMENTS WITH SECURITY VENDOR DRAWINGS PRIOR TO ROUGH-IN. RUN 2#12, 1#12G, 3/4"C FOR POWER, AND PROVIDE 1"C TO CEILING FOR LOW VOLTAGE CABLING.
7	EC SHALL PROVIDE 120V, 1PH, 20A POWER CONNECTION TO JUNCTION BOX FOR HARDWIRED CONNECTION TO SUIT SPINNER. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
8	EC SHALL PROVIDE DEDICATED 120V, 1PH, 20A POWER CONNECTION TO HAND DRYER WITH 2#12, 1#12G, IN 3/4" CONDUIT. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.
9	EC SHALL PROVIDE DEDICATED 120V, 1PH, 15A POWER CONNECTION TO CONCESSIONS WINDOW WITH 2#12, 1#12G, IN 3/4" CONDUIT. POWER SHALL BE RUN TO HEADER ON FIXED PANEL SIDE OF WINDOW. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH MANUFACTURER'S REQUIREMENTS AND COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN
10	EC SHALL PROVIDE DEDICATED 120V, 1PH, 15A WATERPROOF, GFCI PROTECTED POWER CONNECTION TO ADULT CHANGING TABLE WITH 2#12, 1#12G, IN 3/4" CONDUIT. COORDINATE EXACT LOCATION AND HEIGHT WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.
11	EC SHALL PROVIDE EMERGENCY STOP PUSH BUTTON ADJACENT TO ADULT CHANGING TABLE FOR EMERGENCY SHUT DOWN TO CHANGING TABLE. COORDINATE EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS AND MANUFACTURER'S REQUIREMENTS PRIOR TO ROUGH-IN. PROVIDE ALL CONTROL WIRING PER MANUFACTURER'S REQUIREMENTS.
12	EC SHALL PROVIDE 120V, 1PH, 20A POWER CONNECTION TO JUNCTION BOX FOR HARDWIRED TC CONTROL PANEL FOR MECHANICAL EQUIPMENT. COORDINATE EXACT LOCATION AND ELECTRICAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
13	PROVIDE (3) 2" PVC BELOW GRADE AS INDICATED FOR LOW VOLTAGE CABLING RACEWAY BETWEEN AREAS OF THE BUILDING. CONTRACTOR SHALL ROUTE CONDUIT UP INTERIOR TO WALL AND STUB OUT ABOVE ACCESSIBLE CEILING AT EACH END.

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BARKER RINKER SEACAT ARCHITECTURE

PERMIT REVIEW & BID SET ONLY
DOCUMENT PACKAGE NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

ELECTRICAL POWER PLAN - BATHHOUSE AND FACILITIES

E1.0

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THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, FOR USE ON ARCHITECTURAL DRAWINGS

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH ONLY, IF IT DOES NOT PLOT AS SHOWN, plot to suit in color
by paper size, use SCALE
by graphic scale, use BAR
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IF NOT 1" LONG ADJUST SCALE ACCORDINGLY

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KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
1	EC SHALL INSTALL VFDS. VERIFY ALL EQUIPMENT CLEARANCES ARE MAINTAINED AND COORDINATED IN FIELD WITH POOL, HVAC, AND PLUMBING EQUIPMENT AND ASSOCIATED PIPING PRIOR TO ROUGH-IN. MINIMUM WORKING SPACE CLEARANCE IN FRONT OF VFDS IS INDICATED ON PLAN WITH HATCHED REGION.
2	RECEPTACLE FOR CHLORINE/CO2 FEED PUMP SHALL BE MOUNTED 12" TO 18" ABOVE THE FEED PUMP LOCATION. COORDINATE FINAL LOCATION WITH POOL CONTRACTOR PRIOR TO ROUGH-IN. DEVICE SHALL BE INTERLOCKED WITH PUMPS VIA THE WATER CHEMISTRY CONTROLLER/CHEMICAL CONTROLLER.
3	EC SHALL PROVIDE SINGLE GANG BOX WITH 1"C TO STUB OUT ABOVE ACCESSIBLE CEILING FOR CARD READER INSTALLATION AND ASSOCIATED CABLING RACEWAY. EC SHALL COORDINATE EXACT LOCATION AND ELEVATION WITH SECURITY VENDOR SHOP DRAWINGS PRIOR TO ROUGH-IN.
4	EC SHALL PROVIDE EPO PUSH BUTTON ADJACENT TO DOOR FOR SHUT DOWN OF ALL POOL HEATING EQUIPMENT. PROVIDE ALL CONTROL WIRING PER EQUIPMENT MANUFACTURER'S REQUIREMENTS.
5	EC SHALL PROVIDE PLYWOOD BACKBOARD AT IDF LOCATION. BACKBOARD SHALL BE A MINIMUM OF 3/4" THICK, 2' WIDE AND 2' TALL, WITH THE BOTTOM OF THE BOARD MOUNTED 6' ABOVE THE FINISHED FLOOR WITH THE BEST SIDE TOWARD THE ROOM. PLYWOOD SHALL BE A/C GRADE AND FINISHED WITH TWO COATS OF FIRE-RETARDANT PAINT. PLYWOOD SHALL BE PERMANENTLY FASTENED TO THE WALL BY MEANS OF WALL ANCHORS UTILIZING GALVANIZED, ZINC PLATED OR STAINLESS STEEL HARDWARE WITH A FLAT HEAD. FINISHED INSTALLATION SHALL HAVE A FLUSH APPEARANCE WITH COUNTERSUNK SCREW HEADS TO PREVENT SPLITTING OF THE PLYWOOD. DRYWALL SCREWS ARE NOT ACCEPTABLE. REFER TO DETAIL #2/E6.1 FOR MORE INFORMATION.
6	EC SHALL PROVIDE 120V, 1PH, 20A POWER CONNECTION TO JUNCTION BOX FOR HARDWIRED SE PUMP CONTROL PANEL FOR MECHANICAL EQUIPMENT. COORDINATE EXACT LOCATION AND ELECTRICAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
7	EC SHALL PROVIDE HARDWIRED 120V, 20A, 1PH CONNECTION FOR FLOW METER POWER SUPPLY. FIELD COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH POOL CONTRACTOR PRIOR TO ROUGH-IN.

POWER GENERAL NOTES

A.	ALL WIRING ROUTED WITHIN THIS ROOM SHALL BE WITHIN NON-METALLIC CONDUIT (SCHEDULE 40 PVC).
B.	ALL RECEPTACLE DEVICES LOCATED WITHIN POOL MECHANICAL ROOM SHALL BE GFI, PROVIDED WEATHERPROOF WHILE-IN-USE COVERS, UNLESS OTHERWISE NOTED.
C.	ALL DEVICES WITHIN POOL DECK AND POOL AREAS SHALL BE CORROSION RESISTANCE RECEPTACLES. REFER TO BUILDING ENGINEER'S SPECIFICATIONS AND DRAWINGS FOR SPECIFIC REQUIREMENTS.
D.	EQUIPMENT AT THE POOL DECK AREAS SHALL BE BONDED AS REQUIRED BY NEC. REFER TO DETAIL #2/E0.0 FOR MORE INFORMATION AND SPECIFIC REQUIREMENTS. REFER TO E-SERIES SHEETS FOR ADDITIONAL EQUIPMENT.
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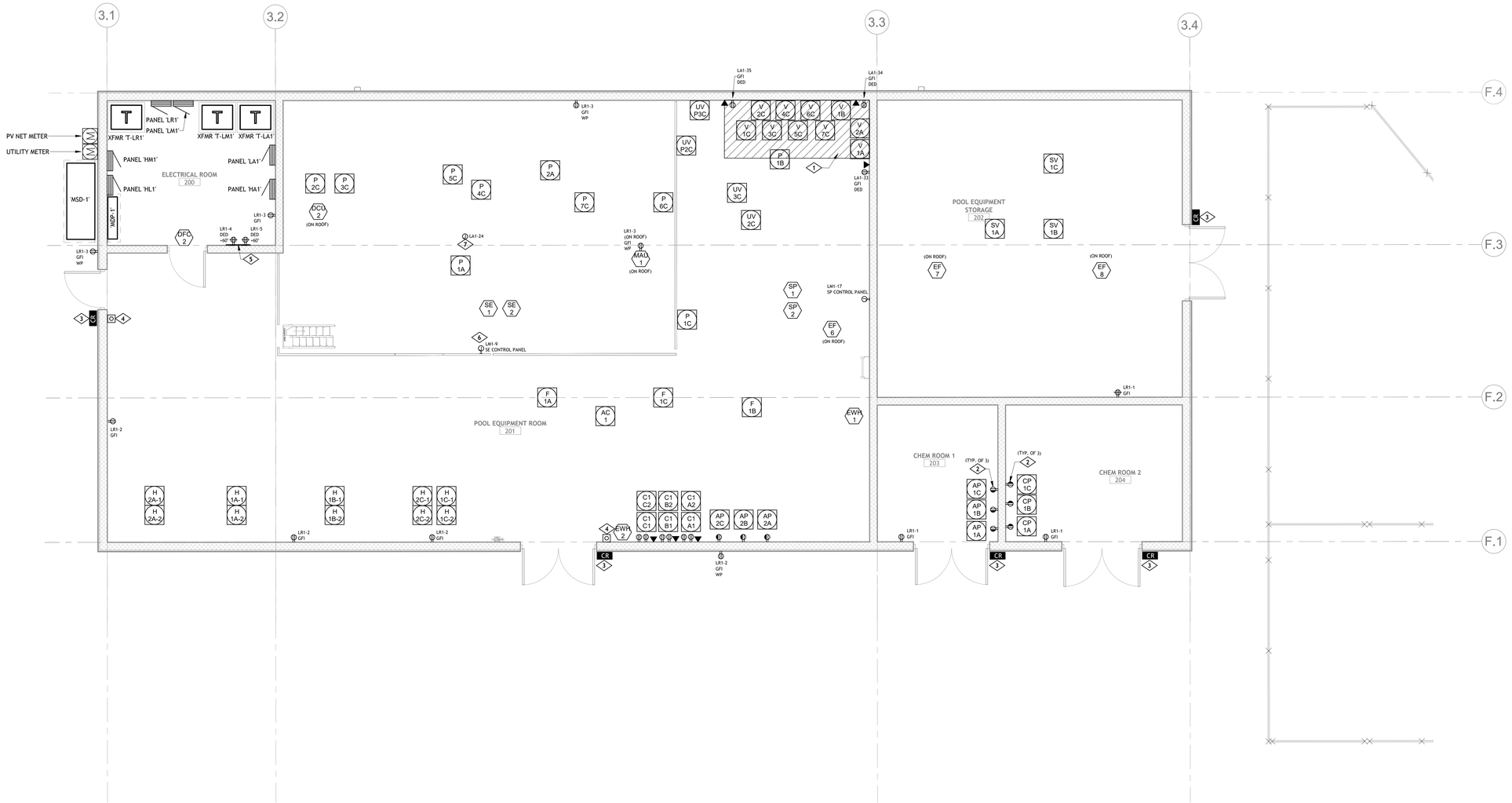
F.	RECEPTACLES WITHOUT CIRCUIT DESIGNATION ARE ASSOCIATED WITH POOLEQUIPMENT AND SHOWN FOR CONSTRUCTION COORDINATION. REFER TO THE POOL EQUIPMENT SCHEDULE, SHEET E7.0, FOR EQUIPMENT CIRCUITS AND ADDITIONAL INFORMATION.



1 | ELECTRICAL POWER PLAN - POOL MECHANICAL BUILDING

E1.1 | 1/4" = 1'-0"

NORTH

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
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ELECTRICAL POWER PLAN - POOL MECHANICAL BUILDING

E1.1

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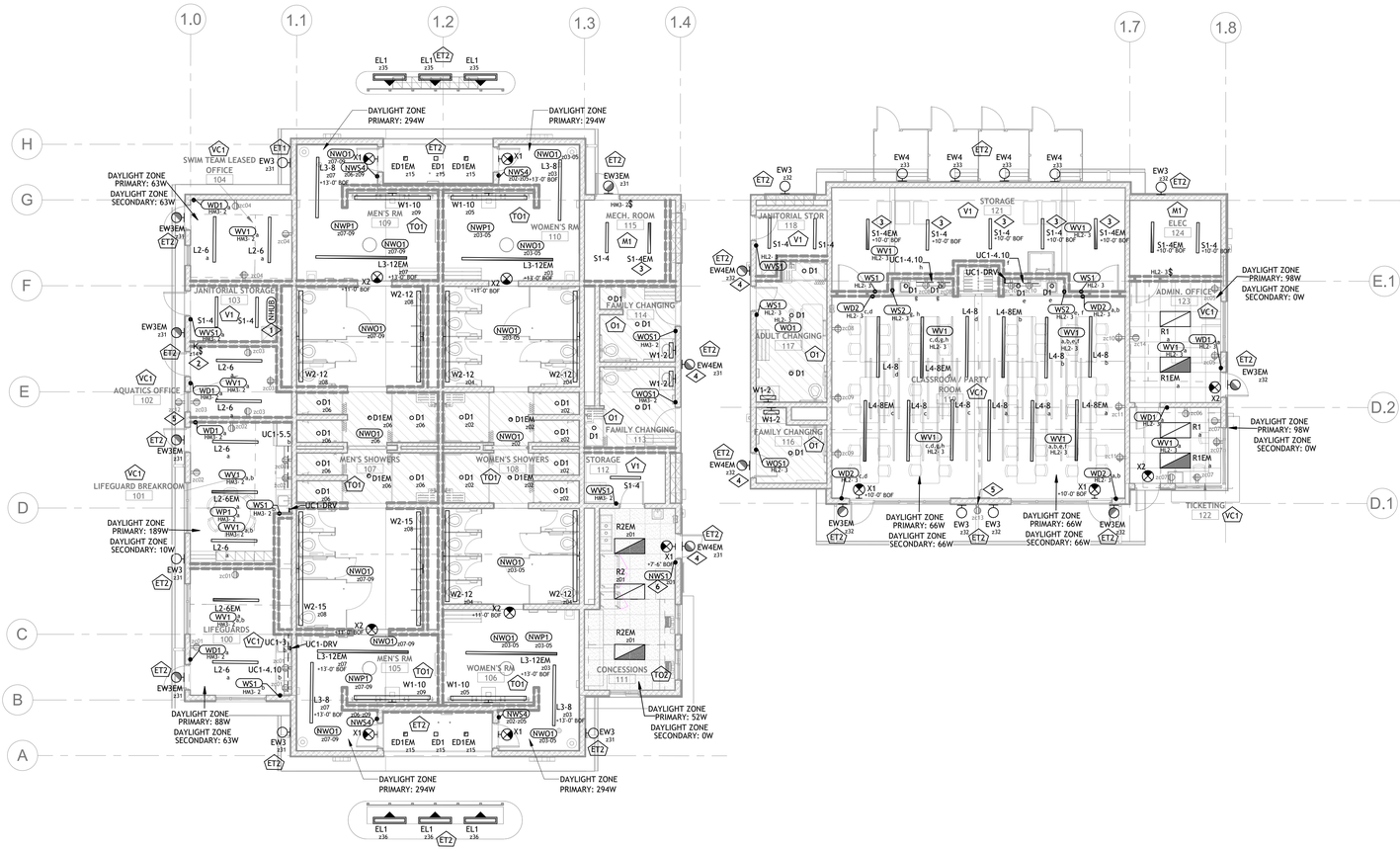
plot to .pdf = color
to panel sets, use B-size
to individual sheets, use D-size

LIGHTING GENERAL NOTES

A.	DAYLIGHT ZONE LIGHTING POWER DENSITY IS SHOWN ON PLAN FOR REFERENCE ONLY. PHOTOCELLS FOR DAYLIGHT HARVESTING SHALL ONLY BE PROVIDED IF SHOWN ON PLAN.

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
1	EC SHALL CONFIRM FINAL HEAD END EQUIPMENT LOCATION REQUIREMENTS WITH LIGHTING CONTROLS MANUFACTURER PRIOR TO ROUGH-IN. INCLUDE FINAL PLACEMENT IN LIGHTING CONTROL SHOP DRAWINGS AND SUBMITTALS FOR FINAL APPROVAL BY ARCHITECT/OWNER/ENGINEER.
2	PROVIDE KEY OPERATED OVERRIDE SWITCH FOR POOL DECK LIGHTS.
3	EC SHALL SUSPEND FIXTURE FROM THE CEILING STRADDLING DUCTS AND STRUCTURAL *MEMBERS*. EC SHALL *MOUNT* FIXTURE AS CLOSE TO BOTTOM OF DUCT/BEAM AS POSSIBLE.
4	EC SHALL COORDINATE FINAL LOCATION OF *REMOTE* BATTERY INCLUDED WITH INDICATED FIXTURE. SEE LUMINAIRE SCHEDULE FOR *MORE* INFORMATION.
5	EC SHALL PROVIDE FULLY CONTROLLED DUPLEX RECEPTACLE AT INDICATED LOCATION FOR TIMECLOCK CONTROL OF INDICATED DEVICE.
6	EC SHALL PROVIDE WATERPROOF COVER FOR PROTECTION OF LIGHT SWITCH AT THIS LOCATION.



NORTH

1 | ELECTRICAL LIGHTING PLAN - BATHHOUSE AND FACILITIES
E2.0 | 1/8" = 1'-0"

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ELECTRICAL LIGHTING PLAN - BATHHOUSE AND FACILITIES

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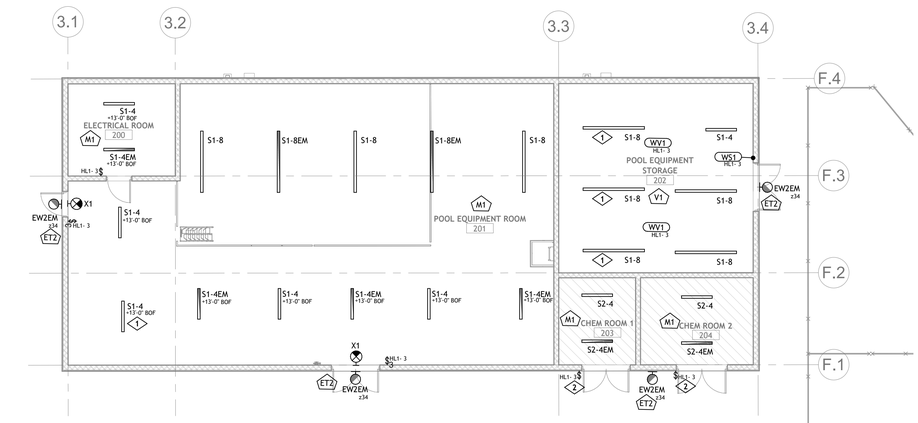

1 | ELECTRICAL LIGHTING PLAN - POOL MECHANICAL BUILDING
E2.1 | 1/8" = 1'-0"

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ELECTRICAL LIGHTING PLAN - POOL MECHANICAL BUILDING

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FEEDER SCHEDULE

ALUMINUM THREE PHASE

"KEY/ AMPS"	"FEEDER CONDUIT AND CONDUCTORS"	"KEY/ AMPS"	"FEEDER CONDUIT AND CONDUCTORS"
SERVICE ENTRANCE FEEDERS		**SDS XFMR FEEDERS (NOTE 1)**	
A100N	4#1, 1-1/2"C	A150S	4#3/0, 1#1/0G, 2-1/2"C
A200N	4#250, 2-1/2"C	A250S	4#350, 1#1/0G, 3"C
A400N	2[4#250, 3"C]	A400S	2[4#250, 1#3/0G, 3"C]
A600N	2[4#500, 3-1/2"C]	A500S	2[4#350, 1#3/0G, 3"C]
A800N	3[4#400, 3"C]	A800S	3[4#400, 1#250G, 3"C]
A1000N	4[4#350, 3"C]	A1000S	4[4#350, 1#3/0G, 3"C]
A1200N	4[4#500, 3-1/2"C]	A1600S	6[4#400, 1#3/0G, 3"C]
A1600N	6[4#400, 3"C]	A2500S	9[4#500, 1#3/0G, 3-1/2"C]
A2000N	7[4#500, 3-1/2"C]		
A2500N	9[4#500, 3-1/2"C]		
A3000N	10[4#500, 3-1/2"C]		
A3500N	12[4#500, 3-1/2"C]		
A4000N	13[4#500, 3-1/2"C]		
EQUIPMENT FEEDERS (COPPER) (NOTE 4)			
20NG	4#12, 1#12G, 3/4"C	20G	3#12, 1#12G, 3/4"C
30NG	4#10, 1#10G, 3/4"C	30G	3#10, 1#10G, 3/4"C
40NG	4#8, 1#10G, 1"C	40G	3#8, 1#10G, 1"C
50NG	4#6, 1#10G, 1-1/4"C	50G	3#6, 1#10G, 1"C
60NG	4#4, 1#10G, 1-1/4"C	60G	3#4, 1#10G, 1"C
70NG	4#4, 1#8G, 1-1/4"C	70G	3#4, 1#8G, 1-1/4"C
80NG	4#3, 1#8G, 1-1/4"C	80G	3#3, 1#8G, 1-1/4"C
90NG	4#2, 1#8G, 1-1/2"C	90G	3#2, 1#8G, 1-1/4"C
EQUIPMENT FEEDERS (ALUMINUM) (NOTE 2)			
A100NG	4#1, 1#6G, 1-1/2"C	A100G	3#1, 1#6G, 1-1/2"C
A110NG	4#1/0, 1#6G, 1-1/2"C	A110G	3#1/0, 1#6G, 1-1/2"C
A125NG	4#2/0, 1#4G, 2"C	A125G	3#2/0, 1#4G, 2"C
A150NG	4#3/0, 1#4G, 2"C	A150G	3#3/0, 1#4G, 2"C
A175NG	4#4/0, 1#4G, 2-1/2"C	A175G	3#4/0, 1#4G, 2-1/2"C
A200NG	4#250, 1#4G, 2-1/2"C	A200G	3#250, 1#4G, 2-1/2"C
A225NG	4#300, 1#2G, 2-1/2"C	A225G	3#300, 1#2G, 2-1/2"C
A250NG	4#350, 1#2G, 3"C	A250G	3#350, 1#2G, 3"C
A300NG	4#500, 1#2G, 3-1/2"C	A300G	3#500, 1#2G, 3-1/2"C
A350NG	2[4#4/0, 1#1G, 2-1/2"C]	A350G	2[3#4/0, 1#1G, 2-1/2"C]
A400NG	2[4#250, 1#1G, 2-1/2"C]	A400G	2[3#250, 1#1G, 2-1/2"C]
A450NG	2[4#300, 1#1/0G, 2-1/2"C]	A450G	2[3#300, 1#1/0G, 2-1/2"C]
A500NG	2[4#350, 1#1/0G, 3"C]	A500G	2[3#350, 1#1/0G, 3"C]
A600NG	2[4#500, 1#2/0G, 3-1/2"C]	A600G	2[3#500, 1#2/0G, 3-1/2"C]
A700NG	3[4#350, 1#3/0G, 3"C]	A700G	3[3#350, 1#3/0G, 3"C]
A800NG	3[4#400, 1#3/0G, 3"C]	A800G	3[3#400, 1#3/0G, 3"C]
A1000NG	4[4#350, 1#4/0G, 3"C]	A1000G	4[3#350, 1#4/0G, 3"C]
A1200NG	4[4#500, 1#250G, 3-1/2"C]	A1200G	4[3#500, 1#250G, 3-1/2"C]
A1600NG	6[4#400, 1#350G, 3"C]	A1600G	6[3#400, 1#350G, 3"C]
A2000NG	7[4#500, 1#400G, 3-1/2"C]	A2000G	7[3#500, 1#400G, 3-1/2"C]
A2500NG	9[4#500, 1#600G, 4"C]	A2500G	9[3#500, 1#600G, 3-1/2"C]
A3000NG	10[4#500, 1#600G, 4"C]	A3000G	10[3#500, 1#600G, 3-1/2"C]
A3500NG	12[4#350, 1#750G, 3-1/2"C]	A3500G	12[3#500, 1#750G, 3-1/2"C]
A4000NG	13[4#500, 1#750G, 4"C]	A4000G	13[3#500, 1#750G, 3-1/2"C]
GROUNDING CONDUCTORS (COPPER)		**ABBREVIATIONS**	
G8	1#8, 3/4" C	MECH	SEE MECH SCHEDULE
G6	1#6, 3/4" C	XFMR	SEE XFMR SCHEDULE
G4	1#4, 3/4" C		
G2	1#2, 3/4" C		
G10	1#1/0, 3/4" C		
G20	1#2/0, 3/4" C		
G30	1#3/0, 3/4" C		

NOTES:

1. FEEDER FOR SECONDARY OF SEPARATELY DERIVED SYSTEM (SDS). GROUND SIZE PER NEC 250.66.
2. ALL CONDUCTORS ARE SINGLE CONDUCTOR ALUMINUM THWN UNLESS NOTED OTHERWISE. AMPACITY BASED ON NEC TABLE 310.16.
3. ALL CONDUITS ARE EMT UNLESS NOTED OTHERWISE, FILL RATIOS BASED ON NEC ANNEX C TABLE C1.
4. ALL EQUIPMENT FEEDERS RATED FOR LESS THAN 100 AMPS AND ALL GROUNDING CONDUCTORS SHALL BE SINGLE CONDUCTOR COPPER THWN. AMPACITY BASED ON NEC TABLE 310.16

TRANSFORMER SCHEDULE - ALUMINUM WINDINGS (2016 DOE EFFICIENCY STANDARDS)

KVA RATING	PRIMARY FLA	SECONDARY FLA	PRIMARY PROTECTION	PRIMARY FEEDER	SECONDARY PROTECTION	SECONDARY FEEDER	GROUNDING ELECTRODE CONDUCTOR (GEC)	TRANSFORMER IMPEDANCE	APPROX. DIMENSIONS HIGH	WIDE	DEEP	APPROX. WEIGHT	SPECIFIC NOTES
3	3.6	8.3	15A/3P	3#10, 1#10G, 1-1/4"C	15A/3P	4#10, 1#6G, 1-1/4"C	1#6, 3/4"C	4.57%	15	15	11	140LBS	1,2
6	7.2	16.7	15A/3P	3#10, 1#10G, 1-1/4"C	20A/3P	4#10, 1#6G, 1-1/4"C	1#6, 3/4"C	4.57%	15	15	11	145LBS	1,2
9	10.8	25.0	15A/3P	3#10, 1#10G, 1-1/4"C	30A/3P	4#8, 1#6G, 1-1/4"C	1#6, 3/4"C	4.57%	20	20	15	245LBS	1,2
15	18.1	41.7	25A/3P	3#8, 1#8G, 1-1/4"C	50A/3P	4#6, 1#6G, 1-1/4"C	1#6, 3/4"C	3.74%	26	21.88	17.75	225LBS	
30	36.1	83.3	45A/3P	3#6, 1#8G, 1-1/4"C	100A/3P	4#1, 1#4G, 1-1/4"C	1#4, 3/4"C	2.74%	36.88	24.88	21.13	409LBS	
45	54.2	125.0	70A/3P	3#3, 1#6G, 1-1/4"C	150A/3P	4#3/0, 1#4, 2"C	1#4, 3/4"C	3.51%	36.88	24.88	21.13	416LBS	
75	90.3	208.3	125A/3P	3#3/0, 1#4G, 2"C	250A/3P	4#350, 1#1/0, 3"C	1#1/0G, 3/4"C	3.61%	43	30.54	24	570LBS	
112.5	135.4	312.5	175A/3P	3#4/0, 1#4G, 2-1/2"C	400A/3P	2[4#250, 1#2G, 2-1/2"C]	1#1/0G, 3/4"C	4.37%	51	34.5	31.5	976LBS	
150	180.5	416.7	225A/3P	3#300, 1#2G, 2-1/2"C	500A/3P	2[4#350, 1#1/0G, 3"C]	1#3/0G, 3/4"C	3.46%	51	34.5	31.5	1239LBS	
225	270.8	625.0	350A/3P	2[3#4/0, 1#1G, 2-1/2"C]	800A/3P	3[4#400, 1#1/0G, 3"C]	1#4/0G, 3/4"C	4.29%	60	38	33.5	1571LBS	
300	361.0	833.3	450A/3P	2[3#300, 1#1/0G, 2-1/2"C]	1000A/3P	4[4#350, 1#1/0G, 3"C]	1#4/0G, 3/4"C	4.45%	66.18	42.18	33.5	2157LBS	
500	601.7	1388.9	750A/3P	3[3#400, 1#3/0G, 3"C]	1600A/3P	6[4#400, 1#1/0G, 3"C]	1#250G, 3/4"C	4.57%	60	56	36	3450LBS	1,2
750	902.5	2083.3	1200A/3P	4[3#500, 1#250G, 3-1/2"C]	2500A/3P	9[4#500, 1#1/0G, 3"C]	1#250G, 3/4"C	4.57%	74	56	41	3950LBS	1,2

GENERAL NOTES:

A. ALL TRANSFORMERS ARE 480V, 3PHASE, DELTA PRIMARY AND 208Y/120V, 3PHASE SECONDARY.
B. ALL CONDUCTORS ARE THWN, ALUMINUM, SEE PLANS FOR INCREASED CONDUCTOR SIZE DUE TO VOLTAGE DROP.
C. BONDING AND GROUNDING CONDUCTORS ARE TO BE INSTALLED PER NEC 250.30 - GROUNDING SEPERATELY DERIVED ALTERNATING CURRENT SYSTEMS.
D. WEIGHT SHOWN FOR REFERENCE ONLY, AND MAY VARY BY MANUFACTURER.

SPECIFIC NOTES:

1. TRANSFORMER IMPEDANCE IS THE ASSUMED VALUE AND IS USED FOR FAULT-CURRENT CALCULATIONS. IF SUBMITTED TRANSFORMER IS OF A DIFFERENT VALUE, REVISED CALCULATIONS MAY BE REQUIRED.
2. EC TO FIELD VERIFY WEIGHTS OF NON DOE 2016 AS THEY MAY VARY BY MANUFACTURER.

CIRCUIT LENGTH FOR 3% VOLTAGE DROP BRANCH CIRCUITS 90 AMPS AND LESS

MOCP LOADED TO 50%	VOLTAGE	PHASE	12 AWG	10 AWG	8 AWG	6 AWG	4 AWG	3 AWG	2 AWG	1 AWG
15	120	1	121	193	307	488	--	--	--	--
	208	1	211	335	532	846	--	--	--	--
	208	3	243	387	616	978	--	--	--	--
	277	1	280	446	709	1127	--	--	--	--
20	120	1	91	145	230	366	582	--	--	--
	208	1	158	251	399	635	1010	--	--	--
	208	3	183	290	462	734	1167	--	--	--
	277	1	210	334	532	845	1344	--	--	--
25	120	1	--	116	184	293	466	--	--	--
	208	1	--	201	319	508	808	--	--	--
	208	3	--	232	369	587	934	--	--	--
	277	1	--	267	425	676	1076	--	--	--
30	120	1	--	97	154	244	388	--	--	--
	208	1	--	167	266	423	673	--	--	--
	208	3	--	193	308	489	778	--	--	--
	277	1	--	223	355	563	896	--	--	--
40	120	1	--	--	115	183	291	367	--	--
	208	1	--	--	200	317	505	636	--	--
	208	3	--	--	231	367	584	736	--	--
	277	1	--	--	266	423	672	847	--	--
50	120	1	--	--	--	146	233	294	--	--
	208	1	--	--	--	254	404	509	--	--
	208	3	--	--	--	293	467	589	--	--
	277	1	--	--	--	338	538	678	--	--
60	120	1	--	--	--	--	194	245	309	--
	208	1	--	--	--	--	337	424	535	--
	208	3	--	--	--	--	389	490	618	--
	277	1	--	--	--	--	448	565	712	--
70	120	1	--	--	--	--	166	210	265	334
	208	1	--	--	--	--	288	364	459	578
	208	3	--	--	--	--	333	420	530	669
	277	1	--	--	--	--	384	484	611	770
80	120	1	--	--	--	--	--	184	231	292
	208	1	--	--	--	--	--	318	401	506
	208	3	--	--	--	--	--	368	464	585
	277	1	--	--	--	--	--	424	534	674
90	120	1	--	--	--	--	--	--	206	260
	208	1	--	--	--	--	--	--	357	450
	208	3	--	--	--	--	--	--	412	520
	277	1	--	--	--	--	--	--	475	599

GENERAL NOTES:

A. ALL CONDUCTOR SIZES ARE CALCULATED ASSUMING A 50% BRANCH CIRCUIT LOAD AND A VOLTAGE DROP OF LESS THAN 3%.
B. ALL CONDUCTORS ARE COPPER THWN.

LOAD SUMMARY: MDP-1

LOAD DESCRIPTION	LOAD	NOTES
PANEL 'HA1'	106796 VA	
EWH-1	63000 VA	
PANEL 'HM1'	93738 VA	
PANEL 'HL1'	1486 VA	
P1A	61350 VA	
P1B	21510 VA	
P1C	51786 VA	
P4C	41427 VA	
P6C	41427 VA	
P7C	41427 VA	

TOTAL NEW LOAD	524 kVA
@ 480/277V, 3PH	630 A
TOTAL EST. DEMAND	525 kVA
@480/277V, 3PH	632 A

THEREFORE THE 800A SERVICE IS JUSTIFIED.

Notes: NEW SERVICE

LOAD SUMMARY: MDP-2

LOAD DESCRIPTION	LOAD	NOTES
HL2	13913 VA	
HM2	104416 VA	
T-LEV2	0 VA	
T-LEV1	66560 VA	
ERV-1	91283 VA	
RTU-1	56865 VA	

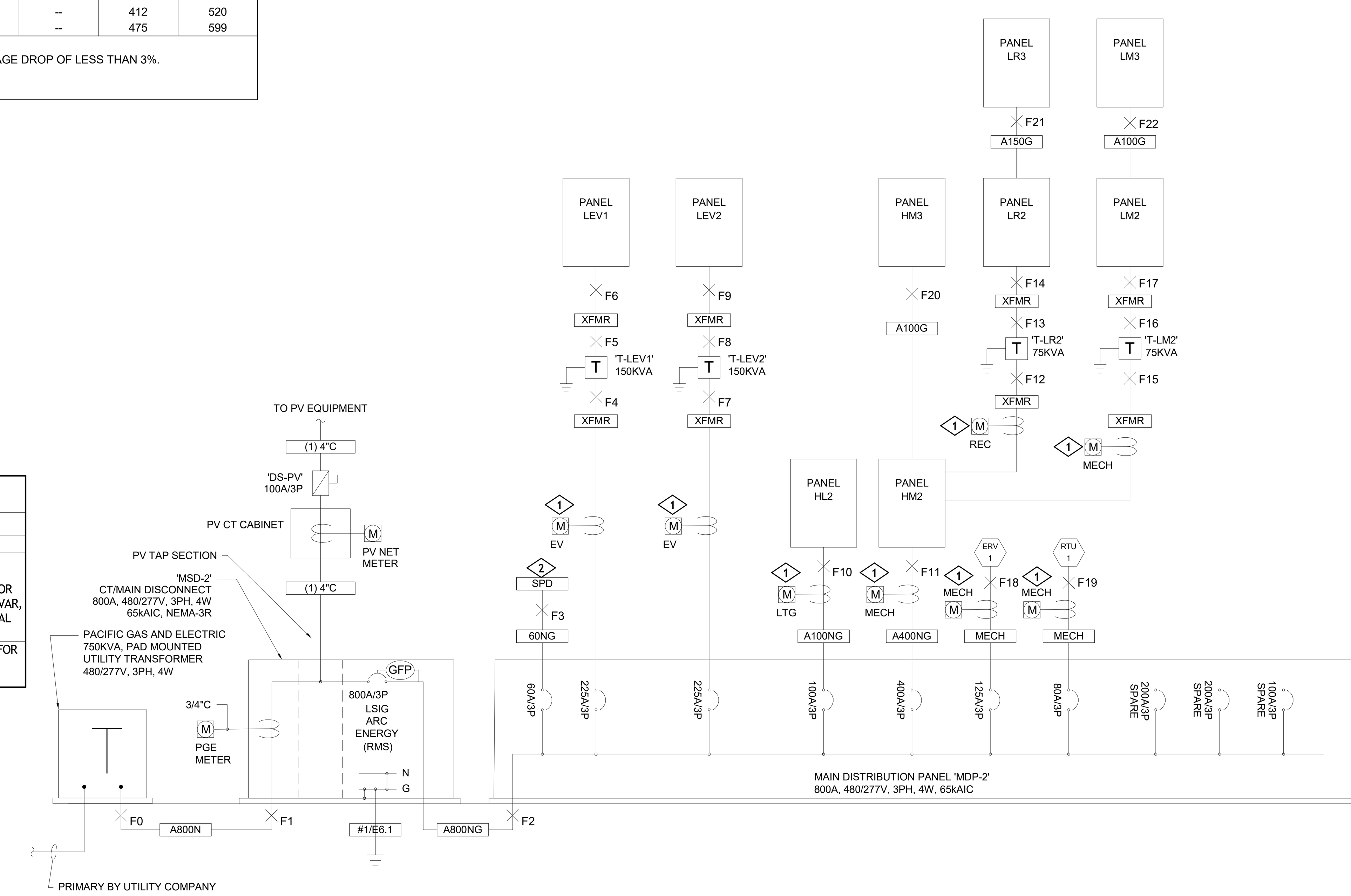
TOTAL NEW LOAD	333 kVA
@ 480/277V, 3PH	401 A
TOTAL EST. DEMAND	328 kVA
@480/277V, 3PH	395 A

THEREFORE THE 800A SERVICE IS JUSTIFIED.

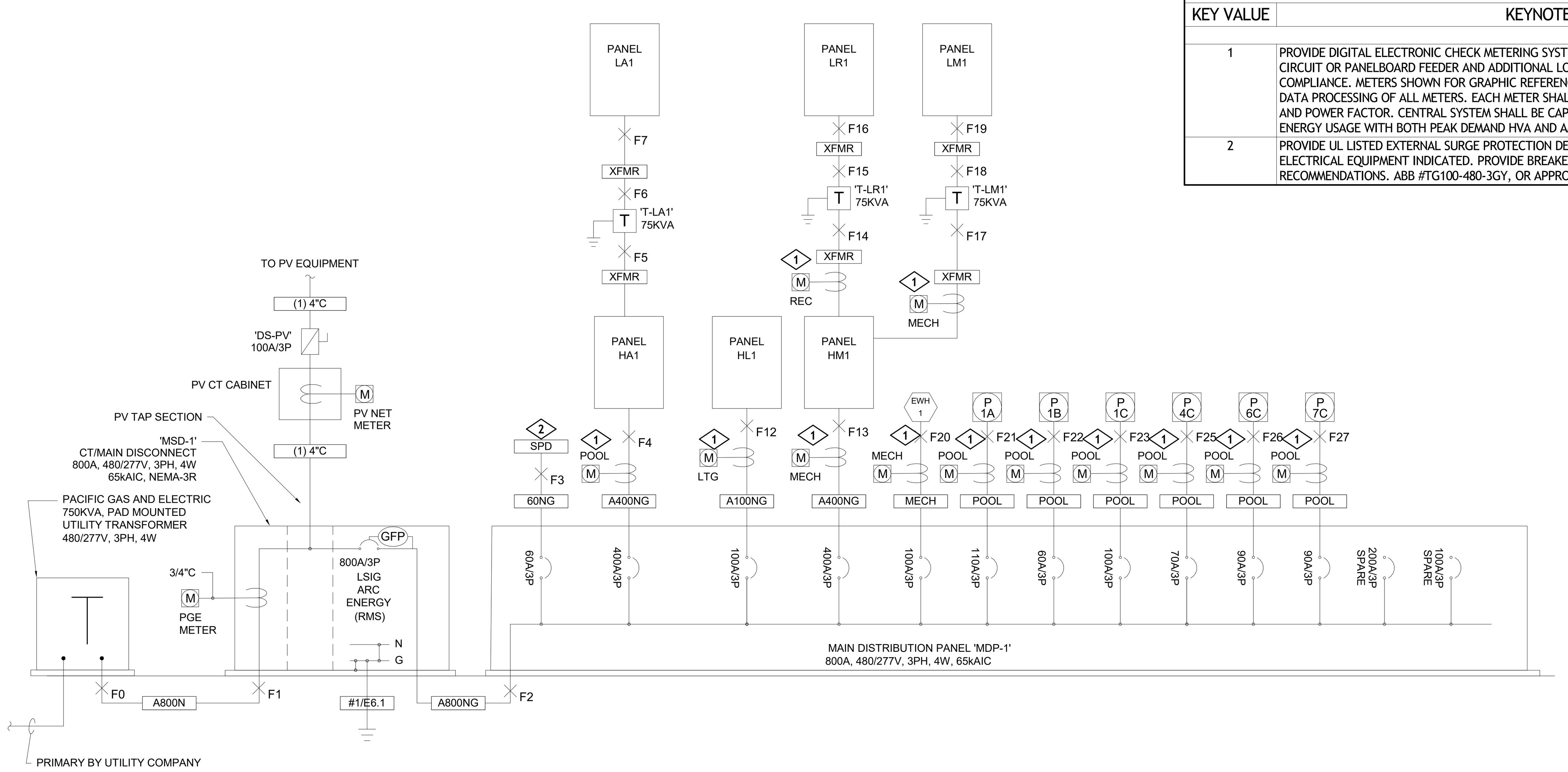
Notes: NEW SERVICE

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
1	PROVIDE DIGITAL ELECTRONIC CHECK METERING SYSTEM WITH CT'S AT EACH PANELBOARD BRANCH CIRCUIT OR PANELBOARD FEEDER AND ADDITIONAL LOCATIONS SHOWN ON ONE-LINE FOR TITLE 24 COMPLIANCE. METERS SHOWN FOR GRAPHIC REFERENCE HERE. PROVIDE CENTRAL METER SYSTEM FOR DATA PROCESSING OF ALL METERS. EACH METER SHALL MONITOR VOLTAGE, AMPS, VA/KVA, VAR/HVAR, AND POWER FACTOR. CENTRAL SYSTEM SHALL BE CAPABLE OF LOGGING AND RECORDING ELECTRICAL ENERGY USAGE WITH BOTH PEAK DEMAND HVA AND AMPS, AND MONTHLY KWH.
2	PROVIDE UL LISTED EXTERNAL SURGE PROTECTION DEVICE (SPD) WITH 200KA PER PHASE MINIMUM FOR ELECTRICAL EQUIPMENT INDICATED. PROVIDE BREAKER SIZE AND WIRING PER MANUFACTURER'S RECOMMENDATIONS. ABB #TG100-480-3GY, OR APPROVED EQUIVALENT.



2 | ELECTRICAL ONE-LINE DIAGRAM - FACILITIES, BATHHOUSE, AND CONCESSIONS BUILDING
E6.0 | NO SCALE



1 | ELECTRICAL ONE-LINE DIAGRAM - MECHANICAL BUILDING AND POOL DECK
E6.0 | NO SCALE

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY

CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

ELECTRICAL ONE-LINE DIAGRAM

E6.0

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GENERAL NOTES

1. ALL BURIED CONDUIT SHALL BE SCHEDULE-40 PVC RATED WHEN USED IN NON-TRAFFIC OR COMMON AREAS. SCHEDULE-80 PVC CONDUIT SHALL BE USED IN AREAS SUBJECT TO VEHICULAR TRAFFIC OR HIGH LOAD AREAS.
2. ALL UNDERGROUND CONDUIT BENDS SHALL BE GALVANIZED RIGID CONDUIT. UNDERGROUND CONDUIT EXTENDING ABOVE SLAB SHALL BE GALVANIZED RIGID CONDUIT. REFER TO ELECTRICAL SPECIFICATIONS FOR FULL CONDUIT REQUIREMENTS.
3. ALL CONDUIT AND CABLING IN CRAWL SPACE IS TO BE SUPPORTED BY, AND TIGHT TO, THE STRUCTURE ABOVE WHERE THE CONDUIT TRANSITIONS FROM BEING SUPPORTED BY STRUCTURE INTO SOIL. ADD LOOP AND/OR FLEXIBLE CONDUIT FOR ANTICIPATED SOIL MOVEMENT.
4. WHERE ELECTRICAL AND TELECOMMUNICATION PATHWAYS ARE IN PROXIMITY TO EACH OTHER THE FOLLOWING REQUIREMENTS SHALL BE APPLIED:
   -- WHEN BOTH CABLES ARE EXPOSED OR IN NON-CONDUCTIVE CONDUITS AND
      -- THE POWER CABLE HAS A POWER RATING LESS THAN 2kVA, 5-INCHES OF SEPARATION IS REQUIRED.
      -- THE POWER CABLE HAS A POWER RATING BETWEEN 2-5kVA, 12-INCHES OF SEPARATION IS REQUIRED.
      -- THE POWER CABLE HAS A POWER RATING GREATER THAN 5kVA, 24-INCHES OF SEPARATION IS REQUIRED.
   -- WHEN EITHER CABLE IS IN CONDUCTIVE CONDUIT AND WHILE THE OTHER IS EXPOSED OR IN NON-CONDUCTIVE PATHWAYS AND:
      -- THE POWER CABLE HAS A POWER RATING LESS THAN 2kVA, 2.5-INCHES OF SEPARATION IS REQUIRED.
      -- THE POWER CABLE HAS A POWER RATING BETWEEN 2-5kVA, 6-INCHES OF SEPARATION IS REQUIRED.
      -- THE POWER CABLE HAS A POWER RATING GREATER THAN 5kVA, 12-INCHES OF SEPARATION IS REQUIRED.
   -- WHEN BOTH CABLES ARE IN CONDUCTIVE CONDUIT AND:
      -- THE POWER CABLE HAS A POWER RATING LESS THAN 2kVA, NO MINIMUM OF SEPARATION IS REQUIRED.
      -- THE POWER CABLE HAS A POWER RATING BETWEEN 2-5kVA, 3-INCHES OF SEPARATION IS REQUIRED.
      -- THE POWER CABLE HAS A POWER RATING GREATER THAN 5kVA, 6-INCHES OF SEPARATION IS REQUIRED.
5. ALL INTERIOR OR EXPOSED CONDUIT SHALL BE STEEL, THIN-WALL ELECTRICAL METALLIC TUBING (EMT).
6. ALL CONDUITS SHALL BE, AT MINIMUM, 1-INCH IN TRADE SIZE.
7. CONDUIT BENDS SHALL BE IN ACCORDANCE WITH TELECOMMUNICATION STANDARDS. FOR CONDUITS 2-INCH IN TRADE SIZE OR LESS, CONDUIT BENDS SHALL HAVE A BEND RADIUS OF NO LESS THAN 6 TIMES THE CONDUIT DIAMETER. FOR CONDUITS GREATER THAN 2-INCH IN TRADE SIZE, CONDUIT BENDS SHALL HAVE A BEND RADIUS OF NO LESS THAN 10 TIMES THE CONDUIT DIAMETER.
8. FOR ALL CABLE ROUTED THROUGH AREAS WITH EXPOSED STRUCTURAL CEILINGS AND/OR INACCESSIBLE CEILINGS, CABLING SHALL BE RUN IN EMT CONDUIT. COORDINATE CONDUIT SIZE REQUIREMENTS WITH CABLE INSTALLER.
9. ALL EXPOSED CONDUIT SHALL BE CONCEALED TO THE GREATEST EXTENT POSSIBLE AND SHALL BE INSTALLED PARALLEL AND CLOSE TO THE STRUCTURAL MEMBERS. GENERAL CONTRACTOR SHALL PAINT PATHWAY TO MATCH ADJACENT FINISHES; COORDINATE WITH ARCHITECT FOR PAINT COLOR APPROVAL.
10. PROVIDE AND INSTALL PULLCORD IN EACH EMPTY PATHWAY. PULLCORDS FOR INTERIOR PATHWAYS SHALL HAVE MINIMUM TENSILE STRENGTH OF 200 POUNDS. PULLCORDS FOR EXTERIOR PATHWAYS SHALL HAVE MINIMUM TENSILE STRENGTH OF 2200 POUNDS. ALL PULLCORDS SHALL EXTEND A MINIMUM OF 12-INCHES OUT OF EACH END OT PATHWAY.
11. FOR INTERIOR SPACES, NO MORE THAN 100FT OF CONDUIT RACEWAY MAY BE INSTALLED BETWEEN PULL BOXES/PULL POINTS. FOR EXTERIOR INSTALLATIONS, NO MORE THAN 500FT OF CONDUIT RACEWAY MAY BE INSTALLED BETWEEN PULL BOXES/PULL POINTS.
12. NO CONDUIT ROUTE SHALL CONTAIN MORE THAN (2) 90-DEGREE BENDS (OR MULTIPLE BENDS EQUALING 180-DEGREE). A PULL BOX SHALL BE PLACED AT EVERY 180-DEGREE OF BENDS ALONG ROUTE TO MINIMIZE PULL FORCE UPON CABLE INSTALLATION. PULL BOXES SHALL BE PLACED IN STRAIGHT SECTIONS OF CONDUIT RUNS, PULL BOXES SHALL NOT BE PLACED IN LIEU OF CONDUIT BENDS.
13. ALL METALLIC RACEWAY SHALL BE GROUNDED AND BONDED TO BUILDING GROUNDING SYSTEM IN ACCORDANCE WITH NFPA 70 AND ANSI J-STD-607-A.
14. WHERE POWER AND TELECOMMUNICATION OUTLETS ARE ADJACENT TO ONE-ANOTHER, OUTLETS SHALL BE IMMEDIATELY ADJACENT AND OTHOGONAL. OUTLETS SHALL BE SEPARATED BY A MAXIMUM OF 18-INCHES. COORDINATE WITH ARCHITECT AND ARCHITECTURAL DRAWINGS FOR ALL OUTLET LOCATIONS.

KEYNOTE LEGEND

KEY VALUE	
1.	TWO (2) 4-INCH PVC CONDUIT SHALL BE PROVIDED AND INSTALLED FOR ROUTING OF INCOMING TELECOMMUNICATIONS UTILITY PROVIDER(S) SERVICE CABLE. CONDUIT SHALL ROUTE A MINIMUM OF 30-INCHES BELOW GRADE. CONTRACTOR SHALL COORDINATE WITH SERVICE PROVIDER PRIOR TO INSTALL TO VERIFY CONDUIT SIZE, QUANTITY, AND ROUTING REQUIREMENTS.
2.	ONE (1) 4-INCH PVC SPARE CONDUIT, IN ADDITION TO THE SERVICE PROVIDER'S CONDUITS, SHALL BE PROVIDED AND INSTALLED FOR FUTURE USE. CONDUIT SHALL ROUTE A MINIMUM OF 30-INCHES BELOW GRADE. COORDINATE WITH CIVIL, STRUCTURAL, ARCHITECT, AND OWNER FOR LOCATION OF CONDUIT ROUTE.
3.	NEW TYPICAL WORK AREA OUTLET FOR NETWORK/VOICE CABLE TERMINATION. PROVIDE AND INSTALL A 4-INCH SQUARE, 2-1/8-INCH DEEP BACKBOX WITH A 1-GANG REDUCING PLASTER RING. PROVIDE AND INSTALL A 1-INCH CONDUIT FROM BACKBOX TO ACCESSIBLE CEILING WITH A BUSHED-END. CABLING, TERMINATION AND FACEPLATE SHALL BE BY OTHERS.
4.	PROVIDE #6AWG GREEN COPPER GROUNDING CONDUCTOR (TYPICAL) BETWEEN GROUNDING BUSSES AS INDICATED.
5.	CONTRACTOR SHALL COORDINATE THE LOCATION OF THE ACCESS CONTROL SYSTEM (ACS) PANEL WITH SPECIALTY CONTRACTORS. PROVIDE A TYPICAL NETWORK OUTLET AS REQUIRED FOR EACH LOCATION, (REFER TO KEYNOTE 5).
6.	CONTRACTOR SHALL PROVIDE AND INSTALL 3/4-INCH BY 4-FOOT BY 8-FOOT, FIRE-RETARDANT, PLYWOOD 6-INCHES ABOVE FINISHED FLOOR, WITH THE TOP MOUNTED AT 8-FOOT 6-INCHES, FOR THE LENGTH INDICATED ON DRAWINGS. FOR MDF, THE BOARD SHALL ACT AS THE MAIN TELEPHONE TERMINAL BOARD (MTTB), PRIMARY BONDING BUSBAR (PBB) MOUNTING LOCATION, AND THE DEMARCATION LOCATION FOR INCOMING SERVICE. FOR ANY IDF LOCATIONS, THE BOARD SHALL ACT AS THE CABLING DISTRIBUTION POINT AND SECONDARY BONDING BUSBAR (SBB) MOUNTING LOCATION.
7.	PROVIDE A MINIMUM OF TWO (2) 4-INCH CONDUIT PENETRATIONS OUT OF EACH TELECOMMUNICATION ROOM INTO CEILING SPACE OF ADJACENT CORRIDOR/ROOM FOR ROUTING OF CABLE. COORDINATE WITH CABLE INSTALLER FOR CONDUIT SIZE AND QUANTITY REQUIREMENTS PRIOR TO INSTALL. COORDINATE LOCATION OF PENETRATIONS AND FIRE-RATING REQUIREMENT WITH CABLE INSTALLER AND ARCHITECT PRIOR TO INSTALL.
8.	CONTRACTOR SHAAL PROVIDE AND INSTALL A TYPICAL NETWORK OUTLER (REFER TO KEYNOTE 5) FOR ALL MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER BUILDING CONTROL SYSTEMS/EQUIPMENT. AT MINIMUM, CONTRACTOR SHALL INCLUDE NETWORK OUTLET COORDINATION WITH INTEGRATORS FOR THE ELEVATOR, BUILDING AUTOMATION SYSTEM (BAS), GAS METER, LIGHTING CONTROL, AND IRRIGATION CONTROL. CONTRACTOR SHALL ASSUME A MINIMUM OF FOUR (4) OUTLETS FOR THESE SERVICES UNLESS OTHERWISE COORDINATED.
9.	PRINCIPAL GROUND POINT NEAR ELECTRICAL SERVICE EQUIPMENT.
10.	CONTRACTOR SHALL PROVIDE AND INSTALL A TELECOMMUNICATIONS PRIMARY BONDING BUSBAR (PBB) AT A MINIMUM SIZE OF 20"X4"X1/4". BUSBAR SHALL BE BONDED TO BUILDING GROUNDING SYSTEM AND FUNCTION AS THE INTERSYSTEM BONDING TERMINATION DEVICE, COMPLYING WITH NEC 250.94.
11.	PROVIDE 4" CONDUIT WITH (3) 1" INNER DUCTS, FROM CEILING PLANE OF FACILITIES BUILDING STORAGE 'MDF' LOCATION, STUBBED OUT 6" AFF IN POOL HOUSE ELECTRICAL ROOM 'IDF' LOCATION FOR OPTICAL FIBER AND COPPER CABLING RACEWAY.
12.	PROVIDE 3/4" X 8' HIGH, FIRE-RETARDANT SATELLITE EQUIPMENT ROOM BACKBOARD FOR LENGTHS AS INDICATED ON PLANS. ALL RECEPTACLE DEVICES SHOWN IN BACKBOARD ON PLANS SHALL BE FLUSH MOUNT, UON.
13.	TELECOMMUNICATIONS GROUNDING BAR 'TGB'.
14.	PROVIDE (1) 1" RACEWAY WITH PULL STRING, FROM UTILITY GAS METER COMMUNICATIONS OUTLET TO MTTB, FOR STRUCTURED CABLE TERMINATION. PROVIDE 2" DEEP, 2-GANG BOX WITH 1-GANG PLASTER RING, FOR GAS TRANSPORT SERVICE METERING CONNECTION TO UTILITY PROVIDER'S TRANSLATION SYSTEM. PROVIDE 1" CONDUIT TO ACCESSIBLE CEILING AND BUSH END. RECEPTACLE FACEPLATE, JACK, CABLING, AND TERMINATIONS BY OTHERS.

FAULT CURRENT CALCULATION SCHEDULE - POOL MECHANICAL BUILDING

POINT	LOCATION DESCRIPTION	LENGTH (L) (ft)	VOLTAGE (EL-L)	VOLTAGE (EL-N)	PHASE	WIRE SIZE	CONDUCTOR MATERIAL	CONDUCTOR TYPE	CONDUIT MATERIAL	VOLTAGE CLASS	C VALUE	# OF PARALLEL RUNS	Isc AVAILABLE UPSTREAM	Isc AT EQUIP (I3ph) OR (IL-L)	POINT
F0	UTILITY XFMR												--	22,600	F0
F1	MAIN DISCONNECT 'MSD-1'	50	480	277	3	350	COPPER	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	22736	4	22,600	21,630	F1
F2	MAIN SWITCHBOARD 'MSB1'	5	480	277	3	350	COPPER	THREE SINGLE CONDUCTORS	STEEL	600V	19703	4	21,630	21,524	F2
F3	SPD	5	480	277	3	4	COPPER	THREE SINGLE CONDUCTORS	STEEL	600V	3806	1	21,524	19,531	F3
F4	PANEL 'HA1'	15	480	277	3	250	ALUMINUM	THREE SINGLE CONDUCTORS	STEEL	600V	12122	2	21,524	20,537	F4
F5	XFMR 'T-LA1' PRIMARY	5	480	277	3	1	ALUMINUM	THREE SINGLE CONDUCTORS	STEEL	600V	4645	1	20,537	19,020	F5
F6	XFMR 'T-LA1' SECONDARY			----							----			5,097	F6
F7	PANEL 'LA1'	5	208	120	3	350	ALUMINUM	THREE SINGLE CONDUCTORS	STEEL	600V	15484	1	5,097	5,028	F7
F8	PANEL 'HA2'	15	480	277	3	250	ALUMINUM	THREE SINGLE CONDUCTORS	STEEL	600V	12122	2	21,524	20,537	F8
F9	XFMR 'T-LA2' PRIMARY	10	480	277	3	1	ALUMINUM	THREE SINGLE CONDUCTORS	STEEL	600V	4645	1	20,537	17,711	F9
F10	XFMR 'T-LA2' SECONDARY			----							----			5,054	F10
F11	PANEL 'LA2'	5	208	120	3	350	ALUMINUM	THREE SINGLE CONDUCTORS	STEEL	600V	15484	1	5,054	4,986	F11
F12	PANEL 'HL1'	15	480	277	3	1	ALUMINUM	THREE SINGLE CONDUCTORS	STEEL	600V	4645	1	21,524	17,208	F12
F13	PANEL 'HM1'	20	480	277	3	250	ALUMINUM	THREE SINGLE CONDUCTORS	STEEL	600V	12122	2	21,524	20,228	F13
F14	XFMR 'T-LR1' PRIMARY	10	480	277	3	1	ALUMINUM	THREE SINGLE CONDUCTORS	STEEL	600V	4645	1	20,228	17,481	F14
F15	XFMR 'T-LR1' SECONDARY			----							----			5,046	F15
F16	PANEL 'LR1'	5	208	120	3	350	ALUMINUM	THREE SINGLE CONDUCTORS	STEEL	600V	15484	1	5,046	4,978	F16
F17	XFMR 'T-LM1' PRIMARY	10	480	277	3	1	ALUMINUM	THREE SINGLE CONDUCTORS	STEEL	600V	4645	1	20,228	17,481	F17
F18	XFMR 'T-LM1' SECONDARY			----							----			5,046	F18
F19	PANEL 'LM1'	5	208	120	3	350	ALUMINUM	THREE SINGLE CONDUCTORS	STEEL	600V	15484	1	5,046	4,978	F19
F20	EWH-1	70	480	277	3	1	ALUMINUM	THREE SINGLE CONDUCTORS	STEEL	600V	4645	1	21,524	9,917	F20
F21	P-1A	30	480	277	3	2X	ALUMINUM	THREE SINGLE CONDUCTORS	STEEL	600V	7186	1	21,524	16,254	F21
F22	P-1B	60	480	277	3	4	ALUMINUM	THREE SINGLE CONDUCTORS	STEEL	600V	2345	1	21,524	7,205	F22
F23	P-1C	55	480	277	3	1	ALUMINUM	THREE SINGLE CONDUCTORS	STEEL	600V	4645	1	21,524	11,213	F23
F24	P-3C	25	480	277	3	4	ALUMINUM	THREE SINGLE CONDUCTORS	STEEL	600V	2345	1	21,524	11,775	F24
F25	P-4C	35	480	277	3	4	ALUMINUM	THREE SINGLE CONDUCTORS	STEEL	600V	2345	1	21,524	9,968	F25
F26	P-6C	50	480	277	3	1	ALUMINUM	THREE SINGLE CONDUCTORS	STEEL	600V	4645	1	21,524	11,723	F26
F27	P-7C	45	480	277	3	1	ALUMINUM	THREE SINGLE CONDUCTORS	STEEL	600V	4645	1	21,524	12,282	F27

NOTES:
1. ALL CALCULATIONS WERE DONE USING BUSSMAN "POINT-TO-POINT" METHOD.
2. REFER TO PLANS FOR ASSUMED UTILITY TRANSFORMER SIZE UTILIZED FOR CALCULATIONS.
3. TRANSFORMER IMPEDANCES USED IN THE CALCULATIONS WERE TAKEN FROM EATON'S PUBLISHED IMPEDANCES FOR DOE 2016 DRY-TYPE TRANSFORMERS.
4. CONDUCTOR LENGTHS INDICATED IN THIS SCHEDULE ARE FOR THE PURPOSES OF FAULT CURRENT CALCULATIONS ONLY. THESE LENGTHS ASSUME WORST CASE SHORTEST DISTANCE CONDITIONS AND SHOULD NOT BE UTILIZED BY THE ELECTRICAL CONTRACTOR FOR BIDDING PURPOSES. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ESTIMATING AND MEASURING ACTUAL FIELD CONDITION LENGTHS AS PART OF THE BID PROCESS.

FAULT CURRENT CALCULATION SCHEDULE - BATHHOUSE AND FACILITIES BUILDING

POINT	LOCATION DESCRIPTION	LENGTH (L) (ft)	VOLTAGE (EL-L)	VOLTAGE (EL-N)	PHASE	WIRE SIZE	CONDUCTOR MATERIAL	CONDUCTOR TYPE	CONDUIT MATERIAL	VOLTAGE CLASS	C VALUE	# OF PARALLEL RUNS	Isc AVAILABLE UPSTREAM	Isc AT EQUIP (I3ph) OR (IL-L)	POINT
F0	UTILITY XFMR												--	33,900	F0
F1	MAIN DISCONNECT 'MSD-2'	135	480	277	3	400	COPPER	THREE SINGLE CONDUCTORS	NONMAGNETIC	600V	24296	3	33,900	27,638	F1
F2	MAIN SWITCHBOARD 'MDP-2'	5	480	277	3	400	COPPER	THREE SINGLE CONDUCTORS	STEEL	600V	20565	3	27,638	27,417	F2
F3	SPD	5	480	277	3	4	COPPER	THREE SINGLE CONDUCTORS	STEEL	600V	3806	1	27,417	24,263	F3
F4	XFMR 'T-LEV1' PRIMARY	10	480	277	3	300	ALUMINUM	THREE SINGLE CONDUCTORS	STEEL	600V	13909	1	27,417	25,596	F4
F5	XFMR 'T-LEV1' SECONDARY			----							----			9,997	F5
F6	PANEL 'LEV1'	5	208	120	3	350	ALUMINUM	THREE SINGLE CONDUCTORS	STEEL	600V	15484	2	9,997	9,864	F6
F7	XFMR 'T-LEV2' PRIMARY	10	480	277	3	300	ALUMINUM	THREE SINGLE CONDUCTORS	STEEL	600V	13909	1	27,417	25,596	F7
F8	XFMR 'T-LEV2' SECONDARY			----							----			9,997	F8
F9	PANEL 'LEV2'	5	208	120	3	350	ALUMINUM	THREE SINGLE CONDUCTORS	STEEL	600V	15484	2	9,997	9,864	F9
F10	PANEL 'HL2'	5	480	277	3	1	ALUMINUM	THREE SINGLE CONDUCTORS	STEEL	600V	4645	1	27,417	24,778	F10
F11	PANEL 'HM2'	10	480	277	3	250	ALUMINUM	THREE SINGLE CONDUCTORS	STEEL	600V	12122	2	27,417	26,342	F11
F12	XFMR 'T-LR2' PRIMARY	5	480	277	3	3X	ALUMINUM	THREE SINGLE CONDUCTORS	STEEL	600V	8826	1	26,342	24,996	F12
F13	XFMR 'T-LR2' SECONDARY			----							----			5,243	F13
F14	PANEL 'LR2'	10	208	120	3	350	ALUMINUM	THREE SINGLE CONDUCTORS	STEEL	600V	15484	1	5,243	5,099	F14
F15	XFMR 'T-LM2' PRIMARY	5	480	277	3	3X	ALUMINUM	THREE SINGLE CONDUCTORS	STEEL	600V	8826	1	26,342	24,996	F15
F16	XFMR 'T-LM2' SECONDARY			----							----			5,243	F16
F17	PANEL 'LM2'	5	208	120	3	350	ALUMINUM	THREE SINGLE CONDUCTORS	STEEL	600V	15484	1	5,243	5,170	F17
F18	ERV-1	100	480	277	3	1X	ALUMINUM	THREE SINGLE CONDUCTORS	STEEL	600V	5777	1	27,417	10,108	F18
F19	RTU-1	40	480	277	3	3	ALUMINUM	THREE SINGLE CONDUCTORS	STEEL	600V	2948	1	27,417	11,705	F19
F20	PANEL 'HM3'	125	480	277	3	1	ALUMINUM	THREE SINGLE CONDUCTORS	STEEL	600V	4645	1	26,342	7,404	F20
F21	PANEL 'LR3'	125	208	120	3	3X	ALUMINUM	THREE SINGLE CONDUCTORS	STEEL	600V	8826	1	5,099	3,184	F21
F22	PANEL 'LM3'	125	208	120	3	1	ALUMINUM	THREE SINGLE CONDUCTORS	STEEL	600V	4645	1	5,170	2,395	F22

NOTES:
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3. TRANSFORMER IMPEDANCES USED IN THE CALCULATIONS WERE TAKEN FROM EATON'S PUBLISHED IMPEDANCES FOR DOE 2016 DRY-TYPE TRANSFORMERS.
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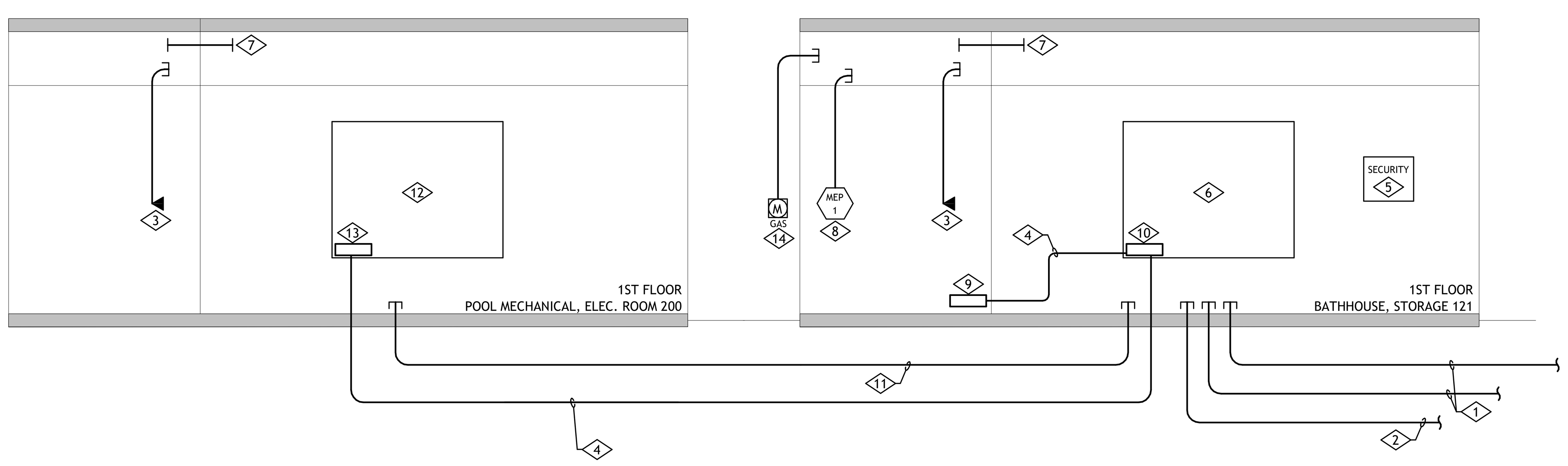

2 | LOW VOLTAGE RISER DIAGRAM
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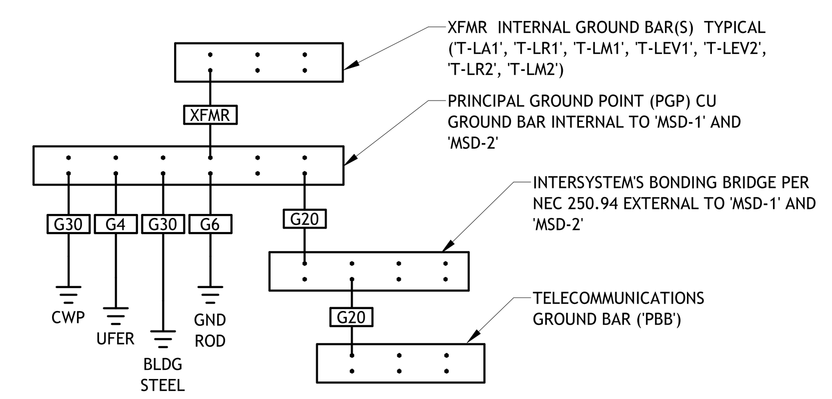
GROUNDING ELECTRODE SYSTEMS NOTES

1. METAL UNDERGROUND WATER PIPE - MAKE CONNECTION TO METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH THE EARTH FOR 10' AND ELECTRICALLY CONTINUOUS TO THE POINTS OF CONNECTION TO THE GROUNDING ELECTRODE CONDUCTOR AND BONDING CONDUCTORS. CONNECTION POINT TO BE AT A MAXIMUM OF 5' OF THE POINT OF ENTRANCE ON THE INTERIOR OF THE BUILDING.
2. BUILDING STEEL - THE METAL FRAME OF THE BUILDING OR STRUCTURE, WHERE ANY OF THE FOLLOWING METHODS ARE USED TO MAKE AN EARTH CONNECTION:
   A. AT LEAST ONE STRUCTURAL METAL MEMBER THAT IS IN DIRECT CONTACT WITH THE EARTH FOR 10' OR MORE, WITH OR WITHOUT CONCRETE ENCASEMENT.
   B. HOLD-DOWN BOLTS SECURING THE STRUCTURAL STEEL COLUMN THAT ARE CONNECTED TO A CONCRETE ENCASED ELECTRODE THAT COMPLIES WITH 250.52(A)(3) AND IS LOCATED IN THE SUPPORT FOOTING OR FOUNDATION. THE HOLD-DOWN BOLTS SHALL BE CONNECTED TO THE CONCRETE-ENCASED ELECTRODE BY WELDING, EXOTHERMIC WELDING, THE USUAL STEEL TIE WIRES, OR OTHER APPROVED MEANS.
3. UFER GROUND (CONCRETE-ENCASED ELECTRODE) - AN ELECTRODE ENCASED BY AT LEAST 2" OF CONCRETE, LOCATED WITHIN AND NEAR THE BOTTOM OF A CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH EARTH, CONSISTING OF AT LEAST 20' OF ONE OR MORE BARE OR ZINC GALVANIZED OR OTHER ELECTRICALLY CONDUCTIVE COATED STEEL REINFORCING BARS OR RODS OF NOT LESS THAN 1/2" IN DIAMETER, OR CONSISTING OF AT LEAST 20' OF BARE COPPER CONDUCTOR NOT SMALLER THAN NO. 4 AWG. REINFORCING BARS SHALL BE PERMITTED TO BE BONDED TOGETHER BY THE USUAL STEEL TIE WIRES OR OTHER EFFECTIVE MEANS.
4. GROUND ROD - ROD IS TO BE 8FT IN LENGTH AND SHALL BE MADE OF IRON OR STEEL AT LEAST 5/8" DIAMETER. INSTALLATION METHODS FOR GROUND ROD SHALL BE IN COMPLIANCE WITH THE NEC SUCH THAT AT LEAST 8' OF LENGTH IS IN CONTACT WITH THE EARTH.



GENERAL GROUNDING NOTES

1. ALL CABLES TO BE TERMINATED ONTO BUS BAR WITH TWO HOLE COMPRESSION LUGS AND ATTACHED TO BUS BAR WITH TAB COMPRESSION BELLEVILLE WASHERS AND TORK BOLT ASSEMBLY.
2. ALL GROUND CONNECTORS SHALL BE STRANDED.
3. ALL BUS BARS SHALL BE ATTACHED TO SURFACE WITH NON-CONDUCTIVE STAND-OFFS.
4. GROUND BUS BAR AND GROUNDING SYSTEM SHALL BE UL LISTED AND COMPLY WITH MANUFACTURERS INSTALLATION INSTRUCTIONS.

1 | ELEC DISTRIBUTION GROUNDING ONE-LINE DIAGRAM & NOTES
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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

ELECTRICAL ONE-LINE AND SCHEDULES

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POOL EQUIPMENT SCHEDULE

KEY		EQUIPMENT DESCRIPTION	LOAD (HP/kW/FLA)	ELECTRICAL	MOCP	FEEDER	DISCONNECT	STARTER NEMA SIZE	STARTER AUX CONTACT	PANEL	CIRCUIT	NOTES
AC	1	POOL A AND B AIR COMPRESSOR	2 HP	120 V/1-2760 VA	50A	2#6, 1#10G, 1"C	60A/1P	--	--	LA1	36	
POOL A - 50M COMPETITION POOL												
AP	1A	ACID FEEDER - POOL A	1.7 A	120 V/1-204 VA	15A	2#12, 1#12G, 3/4"C	5-20R, GFI SWITCHED	--	--	LA1	22	2,4,7
AP	2A	CO2 FEEDER - POOL A	1.7 A	120 V/1-204 VA	15A	2#12, 1#12G, 3/4"C	5-20R, GFI SWITCHED	--	--	LA1	22	2,4,7
C1	A1	CHEMICAL CONTROLLER CPU CIRCUIT	15 FLA	120 V/1-1800 VA	20A	2#12, 1#12G, 3/4"C	5-20R, GFI	--	--	LA1	23	2
C1	A2	CHEMICAL CONTROLLER CHEMICAL FEED	1.7 FLA	120 V/1-204 VA	20A	2#12, 1#12G, 3/4"C	5-20R, GFI	--	--	LA1	22	2
CP	1A	CHLORINE FEEDER - POOL A	SEE 'C1-A2'	120 V/1-0 VA	20A	2#12, 1#12G, 3/4"C	5-20R, GFI SWITCHED	--	--	LA1	22	2,4,7
F	1A	POOL A FILTER CONTROL PANEL	12 A	120 V/1-1440 VA	20A	2#12, 1#12G, 3/4"C	30A/1P	--	--	LA1	15	6
H	1A-1	POOL A HEATER	22 A	120 V/1-2640 VA	30A	2#10, 1#10G, 3/4"C	30A/1P	--	--	LA1	1	2,5
H	1A-2	POOL A HEATER CONTROL PANEL	8 A	120 V/1-960 VA	15A	2#12, 1#12G, 3/4"C	30A/1P	--	--	LA1	2	2,5
H	2A-1	POOL A HEATER	22 A	120 V/1-2640 VA	30A	2#10, 1#10G, 3/4"C	30A/1P	--	--	LA1	3	2,5
H	2A-2	POOL A HEATER CONTROL PANEL	8 A	120 V/1-960 VA	15A	2#12, 1#12G, 3/4"C	30A/1P	--	--	LA1	4	2,5
P	1A	POOL A FILTRATION PUMP	60 HP	480 V/3-61350 VA	110A	3#1, 1#6G, 1-1/2"C	200A/3P	VFD	FROM V-1A	MDP-1	5	4
P	2A	POOL A SIDE PUMP	7.5 HP	480 V/3-8763 VA	20A	3#12, 1#12G, 3/4"C	30A/3P	VFD	FROM V-2A	HA1	1,3,5	1,4
SV	1A	SURGE TANK VENT FAN - POOL A	0.75 HP	120 V/1-1656 VA	25A	2#10, 1#10G, 3/4"C	30A/1P	--	--	LA1	37	
V	1A	VFD AND BYPASS PANEL FOR P1A	SEE 'P1A'	480 V/3-0 VA	SEE 'P1A'	SEE 'P1A'	SEE 'P1A'	--	--	MDP-1	5	1,2,4
V	2A	VFD AND BYPASS PANEL FOR P2A	SEE 'P2A'	480 V/3-0 VA	SEE 'P2A'	SEE 'P2A'	SEE 'P2A'	--	--	HA1	1,3,5	1,2,4
POOL B - 25 YARD WARM-UP POOL												
AP	1B	ACID FEEDER - POOL B	1.7 A	120 V/1-204 VA	15A	2#12, 1#12G, 3/4"C	5-20R, GFI SWITCHED	--	--	LA1	20	2,4,7
AP	2B	CO2 FEEDER - POOL B	1.7 A	120 V/1-204 VA	15A	2#12, 1#12G, 3/4"C	5-20R, GFI SWITCHED	--	--	LA1	20	2,4,7
C1	B1	CHEMICAL CONTROLLER CPU CIRCUIT	15 FLA	120 V/1-1800 VA	20A	2#12, 1#12G, 3/4"C	5-20R, GFI	--	--	LA1	21	2
C1	B2	CHEMICAL CONTROLLER CHEMICAL FEED	1.7 FLA	120 V/1-204 VA	20A	2#12, 1#12G, 3/4"C	5-20R, GFI	--	--	LA1	20	2
CP	1B	CHLORINE FEEDER - POOL B	SEE 'C1-B2'	120 V/1-0 VA	20A	2#12, 1#12G, 3/4"C	5-20R, GFI SWITCHED	--	--	LA1	20	2,4,7
F	1B	POOL B FILTER CONTROL PANEL	12 A	120 V/1-1440 VA	20A	2#12, 1#12G, 3/4"C	30A/1P	--	--	LA1	16	6
H	1B-1	POOL B HEATER	22 A	120 V/1-2640 VA	30A	2#10, 1#10G, 3/4"C	30A/1P	--	--	LA1	5	2,5
H	1B-2	POOL B HEATER CONTROL PANEL	8 A	120 V/1-960 VA	15A	2#12, 1#12G, 3/4"C	30A/1P	--	--	LA1	6	2,5
P	1B	POOL B FILTRATION PUMP	20 HP	480 V/3-21510 VA	60A	3#4, 1#10G, 1"C	60A/3P	VFD	FROM V-1B	MDP-1	6	4
SV	1B	SURGE TANK VENT FAN - POOL B	0.75 HP	120 V/1-1656 VA	25A	2#10, 1#10G, 3/4"C	30A/1P	--	--	LA1	38	
V	1B	VFD AND BYPASS PANEL FOR P1B	SEE 'P1B'	480 V/3-0 VA	SEE 'P1B'	SEE 'P1B'	SEE 'P1B'	--	--	MDP-1	6	1,2,4
POOL C - LEISURE POOL												
AP	1C	ACID FEEDER - POOL C	1.7 A	120 V/1-204 VA	15A	2#12, 1#12G, 3/4"C	5-20R, GFI SWITCHED	--	--	LA1	18	2,4,7
AP	2C	CO2 FEEDER - POOL C	1.7 A	120 V/1-204 VA	15A	2#12, 1#12G, 3/4"C	5-20R, GFI SWITCHED	--	--	LA1	18	2,4,7
C1	C1	CHEMICAL CONTROLLER CPU CIRCUIT	15 FLA	120 V/1-1800 VA	20A	2#12, 1#12G, 3/4"C	5-20R, GFI	--	--	LA1	19	2
C1	C2	CHEMICAL CONTROLLER CHEMICAL FEED	1.7 FLA	120 V/1-204 VA	20A	2#12, 1#12G, 3/4"C	5-20R, GFI	--	--	LA1	18	2
CP	1C	CHLORINE FEEDER - POOL C	SEE 'C1-C2'	120 V/1-0 VA	20A	2#12, 1#12G, 3/4"C	5-20R, GFI SWITCHED	--	--	LA1	18	2,4,7
F	1C	POOL C FILTER CONTROL PANEL	12 A	120 V/1-1440 VA	20A	2#12, 1#12G, 3/4"C	30A/1P	--	--	LA1	17	6
H	1C-1	POOL C HEATER	17 A	120 V/1-2040 VA	30A	2#10, 1#10G, 3/4"C	30A/1P	--	--	LA1	7	2,5
H	1C-2	POOL C HEATER CONTROL PANEL	8 A	120 V/1-960 VA	15A	2#12, 1#12G, 3/4"C	30A/1P	--	--	LA1	8	2,5
H	2C-1	POOL C HEATER	17 A	120 V/1-2040 VA	30A	2#10, 1#10G, 3/4"C	30A/1P	--	--	LA1	9	2,5
H	2C-2	POOL C HEATER CONTROL PANEL	8 A	120 V/1-960 VA	15A	2#12, 1#12G, 3/4"C	30A/1P	--	--	LA1	10	2,5
P	1C	POOL C FILTRATION PUMP	50 HP	480 V/3-51786 VA	100A	3#1, 1#8G, 1-1/2"C	100A/3P	VFD	FROM V-1B	MDP-1	7	4
P	2C	POOL C ACTIVITY PUMP	15 HP	480 V/3-16731 VA	40A	3#8, 1#10G, 1"C	60A/3P	VFD	FROM V-2C	HA1	2,4,6	1,4
P	3C	POOL C ACTIVITY PUMP	20 HP	480 V/3-22447 VA	60A	3#4, 1#10G, 1"C	60A/3P	VFD	FROM V-3C	HA1	8,10,12	1,4
P	4C	POOL C SLIDE PUMP	25 HP	480 V/3-41427 VA	70A	3#4, 1#8G, 1-1/4"C	100A/3P	VFD	FROM V-4A	MDP-1	8	1,4
P	5C	POOL C SLIDE PUMP	15 HP	480 V/3-16731 VA	40A	3#8, 1#10G, 1"C	60A/3P	VFD	FROM V-5A	HA1	7,9,11	1,4
P	6C	POOL C PROP PUMP	40 HP	480 V/3-41427 VA	90A	3#1, 1#6G, 1-1/2"C	100A/3P	VFD	FROM V-6A	MDP-1	9	1,4
P	7C	POOL C PROP PUMP	40 HP	480 V/3-41427 VA	90A	3#1, 1#6G, 1-1/2"C	100A/3P	VFD	FROM V-7A	MDP-1	10	1,4
SV	1C	SURGE TANK VENT FAN - POOL C	0.75 HP	120 V/1-1656 VA	25A	2#10, 1#10G, 3/4"C	30A/1P	--	--	LA1	39	
UV	2C	POOL C ULTRAVIOLET DISENFECTION - LAMPS	2.0 KW	208 V/1-0 VA	--	SEE NOTE	30A/2P	--	--	LA1	11,13	2,3,8
UV	3C	POOL C ULTRAVIOLET DISENFECTION - LAMPS	3 KW	208 V/1-0 VA	--	SEE NOTE	30A/2P	--	--	LA1	12,14	2,3,8
UV	P2C	POOL C ULTRAVIOLET DISENFECTION - CONTROL CABINET	2.0 KW	208 V/1-2000 VA	20A	2#12, 1#12G, 3/4"C	30A/2P	--	--	LA1	11,13	2,3,8
UV	P3C	POOL C ULTRAVIOLET DISENFECTION - CONTROL CABINET	3 KW	208 V/1-3000 VA	30A	2#10, 1#10G, 3/4"C	30A/2P	--	--	LA1	12,14	2,3,8
V	1C	VFD AND BYPASS PANEL FOR P1C	SEE 'P1C'	480 V/3-0 VA	SEE 'P1C'	SEE 'P1C'	SEE 'P1C'	--	--	MDP-1	7	1,2,4
V	2C	VFD AND BYPASS PANEL FOR P2C	SEE 'P2C'	480 V/3-0 VA	SEE 'P2C'	SEE 'P2C'	SEE 'P2C'	--	--	HA1	2,4,6	1,2,4
V	3C	VFD AND BYPASS PANEL FOR P3C	SEE 'P3C'	480 V/3-0 VA	SEE 'P3C'	SEE 'P3C'	SEE 'P3C'	--	--	HA1	8,10,12	1,2,4
V	4C	VFD AND BYPASS PANEL FOR P4C	SEE 'P4C'	480 V/3-0 VA	SEE 'P4C'	SEE 'P4C'	SEE 'P4C'	--	--	MDP-1	8	1,2,4
V	5C	VFD AND BYPASS PANEL FOR P5C	SEE 'P5C'	480 V/3-0 VA	SEE 'P5C'	SEE 'P5C'	SEE 'P5C'	--	--	HA1	7,9,11	1,2,4
V	6C	VFD AND BYPASS PANEL FOR P6C	SEE 'P6C'	480 V/3-0 VA	SEE 'P6C'	SEE 'P6C'	SEE 'P6C'	--	--	MDP-1	9	1,2,4
V	7C	VFD AND BYPASS PANEL FOR P7C	SEE 'P7C'	480 V/3-0 VA	SEE 'P7C'	SEE 'P7C'	SEE 'P7C'	--	--	MDP-1	10	1,2,4

POOL EQUIPMENT NOTES

A PROVIDE 120V CONTROL WIRING AS REQUIRED PER POOL EQUIPMENT SCHEDULE ON POOL DRAWINGS.

B REFER TO POOL DRAWINGS FOR EQUIPMENT LOCATIONS.

C FIELD VERIFY ALL EQUIPMENT LOADS, VOLTAGES, AND RECOMMENDED FUSE SIZING PRIOR TO ENERGIZING CIRCUIT.

D THE ELECTRICAL CONTRACTOR SHALL REVIEW ALL AQUATICS PLANS AND PROVIDE ALL WORK AS CALLED OUT TO BE COMPLETED BY THE ELECTRICAL CONTRACTOR. COORDINATE WITH POOL CONTRACTOR.

E ALL DISCONNECTS SHALL BE NEMA 3R RATED WITH NON-METALLIC ENCLOSURE AND STAINLESS STEEL HARDWARE FOR CORROSION RESISTANCE.

F MOTORS REQUIRING STARTERS SHALL UTILIZE COMBINATION START/DISCONNECT. STARTERS SHALL BE NON-REVERSING WITH NEMA SIZE AS LISTED. ALL STARTERS SHALL UTILIZE CIRCUIT BREAKERS FOR OVERCURRENT PROTECTION.

G PROVIDE FLEXIBLE CONDUIT CONNECTION AT ALL PUMP MOTORS, MINIMUM 18" IN LENGTH.

H WHERE MOTOR IS WITHIN SIGHT (PER THE DEFINITION OF THE NEC) OF THE MCC, THE INDICATED DISCONNECT SWITCH IS NOT REQUIRED.

I ALL MOTORS GREATER THAN 7.5 HORSEPOWER ARE TO BE PROVIDED WITH THREE PHASE PROTECTION.

J ELECTRICAL CONTRACTOR SHALL REFERENCE POOL WIRING DIAGRAMS AND SEQUENCE OF OPERATIONS FOR INTERLOCKS PROVIDED ON THE AQUATIC DESIGNERS DRAWINGS.

K THE ELECTRICAL CONTRACTOR SHALL PROVIDE VARIABLE FREQUENCY DRIVE AS INDICATED IN THE POOL EQUIPMENT SCHEDULE PER THE FOLLOWING SPECIFICATIONS.

- a. MANUFACTURER SHALL BE: ABB, ALLEN BRADLEY, OR APPROVED EQUAL.
- b. VFD UNIT ENCLOSURE SHALL BE NEMA-12 RATED.
- c. UNIT SHALL BE PROVIDED WITH MANUAL SPEED ADJUSTMENT VIA KEYPAD OR DIAL MOUNTED ON THE ENCLOSURE'S EXTERIOR.
- d. UNIT SHALL BE PROVIDED WITH REQUIRED NUMBER OF OUTPUTS FOR CONNECTION TO EXTERNAL RELAY(S) AND EQUIPMENT.
- e. UNIT SHALL BE PROVIDED WITH MANUFACTURER'S PERFORMED FIELD TEST OF DRIVE.
- f. UNIT SHALL BE PROVIDED WITH OWNER OPERATIONAL AND MAINTENANCE TRAINING OF DEVICE.
- g. UNIT SHALL BE SUITABLE FOR OPERATING ENVIRONMENT FROM 0 DEGREES TO 40 DEGREES CELCIUS, AND HUMIDITY UP TO 90% NON-CONDENSING.
- h. PROVIDE VFD WITH CAPABILITY OF 30 SECOND RAMP UP TO FULL SPEED AND 5 SECOND RAMP DOWN FROM FULL SPEED TO ZERO FOR ALL APPLICATIONS USING FILTRATION SYSTEM WITH REGENERATIVE MEDIA FILTER. COORDINATE LOCATIONS WITH POOL CONTRACTOR.
- i. PROVIDE VFD WITH REQUIRED NUMBER OF OUTPUTS FOR CONNECTION TO ALL EXTERNAL RELAY(S) AND EQUIPMENT AS REQUIRED BY THE POOL CONTRACTOR'S DRAWINGS.

L PROVIDE CLEARLY LABELED EMERGENCY SHUTOFF BUTTONS FOR THE PURPOSE OF STOPPING THE MOTORS THAT PROVIDE POWER TO ALL NON-FILTRATION PUMPS PER POOL ENGINEER. EMERGENCY SHUTOFF BUTTON LOCATIONS SHALL BE COORDINATED WITH THE OWNER OR THE OWNER'S RISK MANAGEMENT CONSULTANT.

M PROVIDE CLEARLY LABELED EMERGENCY POWER OFF (EPO) SWITCH(ES) FOR EMERGENCY SHUTDOWN OF ALL POOL WATER HEATER/BOILER SYSTEMS AS REQURED BY CODE. EPO SWITCH LOCATIONS SHALL BE AT EACH EGRESS DOOR LEADING FROM THE ROOM HOUSING THE POOL WATER HEATER SYSTEM(S) AND SHALL BE COORDINATED WITH THE POOL ENGINEER AND OWNER'S RISK MANAGEMENT CONSULTANT.

N ALL POOL PUMP MOTORS CONNECTED TO A SINGLE PHASE 120, 208 OR 240 BRANCH CIRCUIT SHALL BE PROVDED WITH 5mA GROUND-FAULT CIRCUIT-INTERRUPTER.

O ALL LOW VOLTAGE CONTROL WIRING AND CONNECTIONS BETWEEN POOL SYSTEMS SHALL BE PROVIDED BY POOL CONTRACTOR. ALL LINE VOLTAGE AND/OR HIGH VOLTAGE CONNECTIONS AND INTERLOCKS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.

POOL EQUIPMENT SPECIFIC NOTES

1. PUMP SHALL BE SHUT-DOWN WITH REMOTE EMERGENCY STOP BUTTON. REFER TO E0.1 AND E1.0 PLANS FOR MORE INFORMATION. BUTTON LOCATIONS AND INSTALLATION SHALL COMPLY WITH STATE HEALTH DEPARTMENT REGULATIONS AND NEC ARTICLE 680.
2. LOW VOLTAGE CONTROL WIRING CONNECTIONS ARE REQUIRED BETWEEN THE POOL PUMP VFDs, THE WATER CHEMISTRY CONTROLLER, UV TREATMENT SYSTEM, CHLORINE SYSTEM, CO2 FEED SYSTEM, FLOW METER, AND HEATING SYSTEM FOR AUTOMATION AMONG POOL EQUIPMENT. CONDUIT SHALL BE PROVIDED BY EC. ALL LOW VOLTAGE CONTROL WIRING SHALL BE PROVIDED BY PC.
3. OVERCURRENT PROTECTION SIZED PER MANUFACTURER RECOMMENDATION. UV SYSTEMS WITH MULTIPLE LAMPS OPERATE AS UNBALANCED LOADS DURING INITIAL STARTUP (BURN IN) OF THE LAMPS. THEY BURN INTO 100% OUTPUT SIMILAR TO SODIUM HALIDE LAMPS. DURING THAT INITIAL 'BURN IN' THE LAMPS FIRE IN SEQUENCE ABOUT 15 TO 25 SECONDS APART. LAMPS DRAW MORE CURRENT, MORE THAN DOUBLE, AT INITIAL IGNITING OF THE FILAMENT. THEREFORE, UNTIL THE LAMPS SETTLE IN, USUALLY ABOUT 5 MINUTES AFTER STARTUP OF THE SYSTEM, THEY DRAW SIGNIFICANTLY MORE AMPERAGE, THEREFORE LOAD CANNOT BE CALCULATED LIKE A MOTOR. MANUFACTURER RECOMMENDS THE LARGER BREAKERS TO PROTECT THE SYSTEM FROM TRIPPING OUT DURING THAT PERIOD. AFTER BURN IN, THE OPERATING LOAD IS MUCH LESS.
4. CIRCUIT SHALL BE INTERLOCKED WITH POOL PUMPS TO SUSPEND CHEMICAL FEEDING IN THE EVENT THE MAIN RECIRCULATION PUMPS ARE SHUT DOWN. INTERLOCK FUNCTION SHALL BE PROVIDED VIA CONNECTION BETWEEN DEVICE/CIRCUIT AND CHEMICAL CONTROLLER.
5. ALL WIRING SHALL BE MADE WITH TYPE T WIRE. LINE VOLTAGE WIRE EXTERIOR TO APPLIANCE MUST BE ENCLOSED IN APPROVED CONDUIT. PROVIDE INTERCONNECTION LOW VOLTAGE CONTROL WIRING TO WATER CHEMISTRY CONTROLLER.
6. PROVIDE CARBON DIOXIDE MONITORING SYSTEM FOR THE CO2 FEED ROOM COMPLETE WITH A HEAD-END DISPLAY WITH DETECTION PROBE, DUAL WALL MOUNTED STROBES, SOLENOID SHUT-OFF VALVE, AND EF & DDC RELAY. THE UNIT WILL ACTIVATE A DEDICATED EXHAUST FAN, ALARM BUILDING DDC SYSTEM, ACTIVE LOCAL STROBES, AND SHUT OFF THE SOLENOID VALVE. UNIT SHALL BE "CO2METER.COM" MODEL RAD-0102-6 CO2 STORAGE SAFETY 3 ALARM WITH CM-1026 DUAL STROBE KIT. INSTALL DETECTION PROBE IN CO2 FEED ROOM PER MANUFACTURER'S APPROVED SHOP DRAWINGS. INSTALL ONE STROBE INSIDE CO2 FEED ROOM NEAR DOOR AT 7'-0" A.F.F. AND ONE STROBE OUTSIDE OF CO2 FEED ROOM AT 7'-0" A.F.F. INSTALL HEAD-END PANEL ON WALL OUTSIDE OF CO2 FEED ROOM AT 5'-0" A.F.F. TO CENTER. PROVIDE LOW VOLTAGE INTERCONNECTION WIRING TO BUILDING DDC SYSTEM.
7. POWER FOR FEED PUMPS IS PROVIDED VIA CHEMICAL CONTROLLER. EC SHALL COORDINATE INTERCONNECTION REQUIREMENTS WITH POOL CONTRACTOR. REFER TO PL-SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
8. EC SHALL PROVIDE MINIMUM 1-1/2"C FOR LAMP POWER CORD AND 1"C FOR LOW VOLTAGE SIGNAL CABLES FROM CONTROL CABINET TO UV LAMP CHAMBER. LAMP POWER CORDS AND SIGNAL CABLING PROVIDED WITH UV SYSTEM. VERIFY FINAL SIZE REQUIRED WITH APPROVED EQUIPMENT SHOP DRAWINGS AND COORDINATE INSTALLATION WITH PC.

MECHANICAL EQUIPMENT SCHEDULE

KEY		EQUIPMENT DESCRIPTION	LOAD	ELECTRICAL	MOCP/MFS	FEEDER	DISCONNECT	PANEL	CIRCUIT	NOTES
DCU	1	DUCTLESS SPLIT SYSTEM - OUTDOOR	18.0 MCA	208 V/1-3370 VA	20A	2#12, 1#12G, 3/4"C	30A/2P	LM2	1,3	1
DCU	2	DUCTLESS SPLIT SYSTEM - OUTDOOR	19.0 MCA	208 V/1-3557 VA	20A	2#12, 1#12G, 3/4"C	30A/2P	LM1	1,3	1
DFC	1	DUCTLESS SPLIT SYSTEM - INDOOR	0.6 MCA	208 V/1-112 VA	--	--	--	LM2	1,3	1
DFC	2	DUCTLESS SPLIT SYSTEM - INDOOR	0.6 MCA	208 V/1-112 VA	--	--	--	LM1	1,3	1
EF	1	EXHAUST FAN	145 W	120 V/1-145 VA	15A	2#12, 1#12G, 3/4"C	30A/1P	LM3	1	
EF	2	EXHAUST FAN	77 W	120 V/1-77 VA	15A	2#12, 1#12G, 3/4"C	30A/1P	LM3	1	
EF	3	EXHAUST FAN	37 W	120 V/1-37 VA	15A	2#12, 1#12G, 3/4"C	30A/1P	LM3	1	
EF	4	EXHAUST FAN	66 W	120 V/1-66 VA	15A	2#12, 1#12G, 3/4"C	30A/1P	LM3	1	
EF	5	EXHAUST FAN	37 W	120 V/1-37 VA	15A	2#12, 1#12G, 3/4"C	30A/1P	LM3	1	
EF	6	EXHAUST FAN	1 HP	120 V/1-1920 VA	30A	2#10, 1#10G, 3/4"C	30A/1P	LM1	2	
EF	7	EXHAUST FAN	1 HP	120 V/1-1920 VA	30A	2#10, 1#10G, 3/4"C	30A/1P	LM1	4	
EF	8	EXHAUST FAN	1 HP	120 V/1-1920 VA	30A	2#10, 1#10G, 3/4"C	30A/1P	LM1	5	
ERV	1	ENERGY RECOVERY UNIT	122.0 MCA	480 V/3-91283 VA	125A	3#1/0, 1#6G, 1-1/2"C	200A/3P	MDP-2	5	
EWH	1	ELECTRIC WATER HEATER	63 KW	480 V/3-63000 VA	100A	3#1, 1#8G, 1-1/2"C	100A/3P	MDP-1	2	
EWH	2	ELECTRIC WATER HEATER	13.3 KW	208 V/1-13300 VA	80A	2#3, 1#8G, 1-1/4"C	100A/2P	LM1	8,10	
GWH	1	GAS-FIRED WATER HEATER	7.5 FLA	120 V/1-900 VA	15A	2#12, 1#12G, 3/4"C	30A/1P	LM3	3	
GWH	2	GAS-FIRED WATER HEATER	7.5 FLA	120 V/1-900 VA	15A	2#12, 1#12G, 3/4"C	30A/1P	LM3	4	
MAU	1	MAKEUP AIR UNIT	77.0 MCA	480 V/3-57613 VA	80A	3#3, 1#8G, 1-1/4"C	100A/3P	HM1	1,3,5	
PP	1	PLUMBING PUMP	1 FLA	120 V/1-120 VA	15A	2#12, 1#12G, 3/4"C	30A/1P	LM3	2	
PP	2	PLUMBING PUMP	1 FLA	120 V/1-120 VA	15A	2#12, 1#12G, 3/4"C	30A/1P	LM3	2	
RTU	1	ROOFTOP UNIT	76.0 MCA	480 V/3-56865 VA	80A	3#3, 1#8G, 1-1/4"C	100A/3P	MDP-2	6	
SE	1	SEWAGE EJECTOR	1/2 HP	120 V/1-1176 VA	20A	2#12, 1#12G, 3/4"C	30A/1P	LM1	6	
SE	2	SEWAGE EJECTOR	1/2 HP	120 V/1-1176 VA	20A	2#12, 1#12G, 3/4"C	30A/1P	LM1	7	
SP	1	SUMP PUMP	1 HP	208 V/3-2882 VA	15A	3#12, 1#12G, 3/4"C	30A/3P	LM1	11,13,15	
SP	2	SUMP PUMP	1 HP	208 V/3-2882 VA	15A	3#12, 1#12G, 3/4"C	30A/3P	LM1	12,14,16	
UH	1	UNIT HEATER	14.5 FLA	480 V/3-12055 VA	20A	3#12, 1#12G, 3/4"C	30A/3P	HM2	1,3,5	
UH	2	UNIT HEATER	14.5 FLA	480 V/3-12055 VA	20A	3#12, 1#12G, 3/4"C	30A/3P	HM3	1,3,5	

MECHANICAL EQUIPMENT GENERAL NOTES

A. REFER TO MECHANICAL PLANS FOR SPECIFIC EQUIPMENT LOCATIONS AND REQUIREMENTS.

B. PRIOR TO ROUGH-IN, COORDINATE ALL MECHANICAL EQUIPMENT POWER AND CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR'S FINAL SHOP DRAWINGS.

C. PROVIDE ALL 120V CONTROL WIRING, REFER TO SPECIFICATIONS FOR FURTHER CONTROL WIRING CLARIFICATION.

D. FOR ANY VAV SYSTEM COORDINATE POWER REQUIREMENTS WITH MECHANICAL CONTRACTOR AND PROVIDE 120V CONNECTIONS AT EACH VAV BOX, OR AT CENTRAL CONTROL PANEL LOCATION(S) AS REQUIRED. IF EXACT QUANTITIES AND LOCATIONS FOR CONTROL PANELS ARE NOT KNOWN AT BID TIME, E.C. IS TO INCLUDE ONE 120V CONNECTION AT EACH VAV DEVICE IN THE BASE BID PRICE AND PROVIDE A CREDIT DURING CONSTRUCTION IF LESS CONNECTIONS ARE REQUIRED.

E. EXTERIOR DISCONNECT SWITCHES ARE TO BE PROVIDED AS NEMA 3R EQUIPMENT UNLESS OTHERWISE NOTED.

F. PROVIDE WEATHERPROOF 120 VOLT GFCI RECEPTACLES WITHIN 25' OF ALL ROOFTOP HEATING, VENTILATING, AND AIR CONDITIONING EQUIPMENT. CIRCUIT TO SPARE CIRCUIT ON NEAREST 120V PANELBOARD OR AS INDICATED ON PLANS.

G. PROVIDE DUCT DETECTION ON ALL RETURN AIR SYSTEMS OF 2,000 CFM OR GREATER, AND FOR ALL SUPPLY AIR SYSTEMS 15,000 CFM OR GREATER, INCLUDING THOSE SYSTEMS SERVING MULTIPLE FLOORS. PROVIDE ADDITIONAL DUCT DETECTORS AND INSTALL REMOTE INDICATOR LIGHTS AS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION.

H. FOR ANY BOILER MECHANICAL SYSTEM, E.C. IS TO PROVIDE AN EMERGENCY PUSHBUTTON OFF AND ANY CONTROL WIRING REQUIRED. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR AND EQUIPMENT PRIOR TO INSTALLATION.

I. EC TO PROVIDE HAND/OFF/AUTO STARTERS FOR ALL MOTORS WHEN NOT INDICATED AS TO BE PROVIDED BY THE MECHANICAL CONTRACTOR ON THE MECHANICAL PLANS. SIZE OF STARTER TO BE BASED UPON SIZE OF MOTOR HORSEPOWER INDICATED.

MECHANICAL EQUIPMENT SPECIFIC NOTES

1. OUTDOOR UNIT SHALL SUPPLY POWER TO INDOOR UNIT. EC SHALL PROVIDE EXACT WIRE SIZE, TYPE, AND FINAL CONNECTION REQUIREMENTS TO INDOOR UNIT PER MANUFACTURER REQUIREMENTS FOR COMPLETE AND FUNCTIONAL SYSTEM.

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PERMIT REVIEW & BID SET ONLY

DOCUMENT PACKAGE NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number 23030
Issue PERMIT & BID SET
Date 2025-01-24

ELECTRICAL SCHEDULES

E7.0

AE DESIGN
Integrated Lighting, Technology, and Electrical Solutions
1900 Wazee Street #205 | Denver, CO 80202 | 303.296.3034
aedesign-inc.com Project #: 6288

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PANEL: HA1

LOCATION: ELECTRICAL ROOM 200
SUPPLY FROM: MDP-1
MOUNTING: Surface
ENCLOSURE: Type 1

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 25,000
MAINS TYPE: MLO
MAINS RATING: 400 A
MCB RATING: N/A

Notes: NEW PANEL

CKT	LOAD TYPE	LOAD DESCRIPTION	TRIP	POLES	CB TYPE	A		B		C		CB TYPE	POLES	TRIP	LOAD DESCRIPTION	LOAD TYPE	CKT
1	E	COMP POOL - PUMP 'P2A'	20	3		2921	5577						3	40	LEISURE POOL - PUMP 'P2C'	E	2
3	--	--	--	--				2921	5577				--	--	--	--	4
5	--	--	--	--						2921	5577		--	--	--	--	6
7	E	LEISURE POOL - PUMP 'P5C'	40	3		5577	7482						3	60	LIESURE POOL - PUMP 'P3C'	E	8
9	--	--	--	--				5577	7482				--	--	--	--	10
11	--	--	--	--						5577	7482		--	--	--	--	12
13	--	SPARE	20	3		0	0						3	20	SPARE	--	14
15	--	--	--	--				0	0				--	--	--	--	16
17	--	--	--	--						0	0		--	--	--	--	18
19	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	20
21	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	22
23	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	24
25	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	26
27	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	28
29	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	30
31	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	32
33	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	34
35	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	36
37	--	BUSSED SPACE	--	1		--	14824						3	125	PANEL 'LA1'	E; Spa...	38
39	--	BUSSED SPACE	--	1				--	13908				--	--	--	--	40
41	--	BUSSED SPACE	--	1						--	13392		--	--	--	--	42
				Total Load:		36381 VA		35465 VA		34949 VA							
				Total Amps:		132 A		128 A		126 A							

CB TYPE LEGEND
GFCI: 5mA GROUND FAULT CIRCUIT INTERRUPTER
GFEP: 30mA GROUND FAULT PROTECTION FOR EQUIPMENT
AFCI: ARC FAULT CIRCUIT INTERRUPTER
CAFCI: COMBINATION ARC FAULT & 5mA GROUND FAULT CIRCUIT INTERRUPTER
HC(-ON/OFF): HANDLE CLAMP FOR LOCKING IN ON/OFF POSITION
HT#: HANDLE TIE WITH GROUPING #
ST: SHUNT TRIP
LOCK: PERMANENTLY LOCKABLE BREAKER

CIRCUIT PHASE CODE LEGEND
N1. EXISTING LOAD ON EXISTING CIRCUIT BREAKER.
N2. NEW LOAD ON EXISTING CIRCUIT BREAKER.
N3. NEW LOAD ON NEW CIRCUIT BREAKER. CIRCUIT BREAKER AND AIC RATING TO MATCH EXISTING.

LOAD TYPE:	LOAD	DEMAND LOAD	PANEL TOTALS	
LIGHTING:				
RECEPTACLE:	540 VA	540 VA	TOTAL CONN. LOAD:	106796 VA
MOTOR:			TOTAL EST. LOAD:	106796 VA
EQUIPMENT:	106256 VA	106256 VA	TOTAL CONN.:	128 A
KITCH EQUIP:			TOTAL EST. DEMAND:	128 A
CONTINUOUS:				
EXISTING:				

NOTES:

PANEL: HL1

LOCATION: ELECTRICAL ROOM 200
SUPPLY FROM: MDP-1
MOUNTING: Surface
ENCLOSURE: Type 1

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 25,000
MAINS TYPE: MLO
MAINS RATING: 100 A
MCB RATING: N/A

Notes: NEW PANEL

CKT	LOAD TYPE	LOAD DESCRIPTION	TRIP	POLES	CB TYPE	A		B		C		CB TYPE	POLES	TRIP	LOAD DESCRIPTION	LOAD TYPE	CKT
1	L	LTG - MAINTENANCE PARKING	20	1		90	40						1	20	LTG - EXTERIOR BLDG MOUNTED	L	2
3	L	LTG - MECHANICAL BUILDING	20	1				1356	0				1	20	SPARE	--	4
5	--	SPARE	20	1						0	0		1	20	SPARE	--	6
7	--	SPARE	20	1		0	0						1	20	SPARE	--	8
9	--	SPARE	20	1				0	0				1	20	SPARE	--	10
11	--	SPARE	20	1						0	0		1	20	SPARE	--	12
13	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	14
15	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	16
17	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	18
19	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	20
21	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	22
23	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	24
25	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	26
27	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	28
29	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	30
31	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	32
33	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	34
35	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	36
37	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	38
39	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	40
41	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	42
				Total Load:		130 VA		1356 VA		0 VA							
				Total Amps:		1 A		5 A		0 A							

CB TYPE LEGEND
GFCI: 5mA GROUND FAULT CIRCUIT INTERRUPTER
GFEP: 30mA GROUND FAULT PROTECTION FOR EQUIPMENT
AFCI: ARC FAULT CIRCUIT INTERRUPTER
CAFCI: COMBINATION ARC FAULT & 5mA GROUND FAULT CIRCUIT INTERRUPTER
HC(-ON/OFF): HANDLE CLAMP FOR LOCKING IN ON/OFF POSITION
HT#: HANDLE TIE WITH GROUPING #
ST: SHUNT TRIP
LOCK: PERMANENTLY LOCKABLE BREAKER

CIRCUIT PHASE CODE LEGEND
N1. EXISTING LOAD ON EXISTING CIRCUIT BREAKER.
N2. NEW LOAD ON EXISTING CIRCUIT BREAKER.
N3. NEW LOAD ON NEW CIRCUIT BREAKER. CIRCUIT BREAKER AND AIC RATING TO MATCH EXISTING.

LOAD TYPE:	LOAD	DEMAND LOAD	PANEL TOTALS	
LIGHTING:	1486 VA	1858 VA		
RECEPTACLE:			TOTAL CONN. LOAD:	1486 VA
MOTOR:			TOTAL EST. LOAD:	1858 VA
EQUIPMENT:			TOTAL CONN.:	2 A
KITCH EQUIP:			TOTAL EST. DEMAND:	2 A
CONTINUOUS:				
EXISTING:				

NOTES:

PANEL: LA1

LOCATION: ELECTRICAL ROOM 200
SUPPLY FROM: T-LA1
MOUNTING: Surface
ENCLOSURE: Type 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 10,000
MAINS TYPE: MCB
MAINS RATING: 400 A
MCB RATING: 250 A

Notes: NEW PANEL

CKT	LOAD TYPE	LOAD DESCRIPTION	TRIP	POLES	CB TYPE	A		B		C		CB TYPE	POLES	TRIP	LOAD DESCRIPTION	LOAD TYPE	CKT
1	E	COMP POOL - HEATER 'H1A'	30	1		2640	960						1	15	COMP POOL - 'H1A' CONTROL PANEL	E	2
3	E	COMP POOL - HEATER 'H2A'	30	1				2640	960				1	15	COMP POOL - 'H2A' CONTROL PANEL	E	4
5	E	WARM-UP POOL - HEATER 'H1B'	30	1						2640	960		1	15	WARM-UP POOL - 'H1B' CNTRL PANEL	E	6
7	E	LEISURE POOL - HEATER 'H1C'	30	1		2040	960						1	15	LEISURE POOL - 'H1C' CONTROL PANEL	E	8
9	E	LEISURE POOL - HEATER 'H2C'	30	1				2040	960				1	15	LEISURE POOL - 'H2C' CONTROL PANEL	E	10
11	E	LEISURE POOL - UV2C	20	2						1000	1500		2	30	LEISURE POOL - UV3C	E	12
13	--	--	--	--		1000	1500						--	--	--	--	14
15	E	COMP POOL - FILTER CONTROL PANEL	20	1				1440	1440				1	20	WARM-UP POOL - FILTER CNTRL PNL	E	16
17	E	LEISURE POOL - FILTER CNTRL PANEL	20	1						1440	612		1	20	C1-C2, CP-1C, AP-1C, AP-2C	E; R	18
19	E; R	C1-C1	20	1		1800	612						1	20	C1-B2, CP-1B, AP-1B, AP-2B	E; R	20
21	E; R	C1-B1	20	1				1800	612				1	20	C1-A2, CP-1A, AP-1A, AP-2A	E; R	22
23	E; R	C1-A1	20	1						1800	500		1	20	FLOW METER	E	24
25	--	SPARE	20	1		0	0						1	20	SPARE	--	26
27	--	SPARE	20	1				0	0				1	20	SPARE	--	28
29	--	SPARE	20	1						0	0		1	20	SPARE	--	30
31	--	SPARE	20	1		0	0						1	20	SPARE	--	32
33	R	REC - VFD 'V1A' CONTROL PANEL	20	1				180	180				1	20	REC - VFD 'V1B' CONTROL PANEL	R	34
35	R	REC - VFD 'V1C' CONTROL PANEL	20	1						180	2760		1	50	POOL A AND B AIR COMPRESSOR 'AC1'	E	36
37	E	COMP POOL - SURGE FAN 'SV1A'	25	1		1656	1656						1	25	COMP POOL - SURGE FAN 'SV1B'	E	38
39	E	COMP POOL - SURGE FAN 'SV1C'	25	1				1656	0				1	20	SPARE	--	40
41	--	SPARE	20	1						0	0		1	20	SPARE	--	42
				Total Load:		14824 VA		13908 VA		13392 VA							
				Total Amps:		124 A		117 A		112 A							

CB TYPE LEGEND
GFCI: 5mA GROUND FAULT CIRCUIT INTERRUPTER
GFEP: 30mA GROUND FAULT PROTECTION FOR EQUIPMENT
AFCI: ARC FAULT CIRCUIT INTERRUPTER
CAFCI: COMBINATION ARC FAULT & 5mA GROUND FAULT CIRCUIT INTERRUPTER
HC(-ON/OFF): HANDLE CLAMP FOR LOCKING IN ON/OFF POSITION
HT#: HANDLE TIE WITH GROUPING #
ST: SHUNT TRIP
LOCK: PERMANENTLY LOCKABLE BREAKER

CIRCUIT PHASE CODE LEGEND
N1. EXISTING LOAD ON EXISTING CIRCUIT BREAKER.
N2. NEW LOAD ON EXISTING CIRCUIT BREAKER.
N3. NEW LOAD ON NEW CIRCUIT BREAKER. CIRCUIT BREAKER AND AIC RATING TO MATCH EXISTING.

LOAD TYPE:	LOAD	DEMAND LOAD	PANEL TOTALS	
LIGHTING:				
RECEPTACLE:	540 VA	540 VA	TOTAL CONN. LOAD:	42124 VA
MOTOR:			TOTAL EST. LOAD:	42124 VA
EQUIPMENT:	41584 VA	41584 VA	TOTAL CONN.:	117 A
KITCH EQUIP:			TOTAL EST. DEMAND:	117 A
CONTINUOUS:				
EXISTING:				

NOTES:

PANEL: HM1

LOCATION: ELECTRICAL ROOM 200
SUPPLY FROM: MDP-1
MOUNTING: Surface
ENCLOSURE: Type 1

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 25,000
MAINS TYPE: MLO
MAINS RATING: 400 A
MCB RATING: N/A

Notes: NEW PANEL

CKT	LOAD TYPE	LOAD DESCRIPTION	TRIP	POLES	CB TYPE	A		B		C		CB TYPE	POLES	TRIP	LOAD DESCRIPTION	LOAD TYPE	CKT
1	E	MAU-1	80	3		19204	0						3	20	SPARE	--	2
3	--	--	--	--				19204	0				--	--	--	--	4
5	--	--	--	--						19204	0		--	--	--	--	6
7	--	SPARE	20	3		0	0						3	20	SPARE	--	8
9	--	--	--	--				0	0				--	--	--	--	10
11	--	--	--	--						0	0		--	--	--	--	12
13	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	14
15	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	16
17	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	18
19	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	20
21	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	22
23	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	24
25	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	26
27	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	28
29	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	30
31	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	32
33	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	34
35	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	36
37	Spare; R	PANEL 'LR1'	125	3		1440	13502						3	125	PANEL 'LM1'	E; Spa...	38
39	--	--	--	--				1080	13526				--	--	--	--	40
41	--	--	--	--						360	6217		--	--	--	--	42
				Total Load:		34146 VA		33810 VA		25782 VA							
				Total Amps:		128 A		127 A		93 A							

CB TYPE LEGEND
GFCI: 5mA GROUND FAULT CIRCUIT INTERRUPTER
GFEP: 30mA GROUND FAULT PROTECTION FOR EQUIPMENT
AFCI: ARC FAULT CIRCUIT INTERRUPTER
CAFCI: COMBINATION ARC FAULT & 5mA GROUND FAULT CIRCUIT INTERRUPTER
HC(-ON/OFF): HANDLE CLAMP FOR LOCKING IN ON/OFF POSITION
HT#: HANDLE TIE WITH GROUPING #
ST: SHUNT TRIP
LOCK: PERMANENTLY LOCKABLE BREAKER

CIRCUIT PHASE CODE LEGEND
N1. EXISTING LOAD ON EXISTING CIRCUIT BREAKER.
N2. NEW LOAD ON EXISTING CIRCUIT BREAKER.
N3. NEW LOAD ON NEW CIRCUIT BREAKER. CIRCUIT BREAKER AND AIC RATING TO MATCH EXISTING.

LOAD TYPE:	LOAD	DEMAND LOAD	PANEL TOTALS	
LIGHTING:				
RECEPTACLE:	2880 VA	2880 VA	TOTAL CONN. LOAD:	93738 VA
MOTOR:	13876 VA	14597 VA	TOTAL EST. LOAD:	94459 VA
EQUIPMENT:	76982 VA	76982 VA	TOTAL CONN.:	113 A
KITCH EQUIP:			TOTAL EST. DEMAND:	114 A
CONTINUOUS:				
EXISTING:				

NOTES:

CONFLUENCE

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115 Yellowstone Dr,
Chico, CA 95973
530.895.1422

BARKER RINKER SEACAT ARCHITECTURE

PERMIT REVIEW & BID SET ONLY
DOCUMENT PACKAGE NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

ELECTRICAL PANEL SCHEDULES

E7.1

AE DESIGN
Integrated Lighting, Technology, and Electrical Solutions
1900 Wazee Street #205 | Denver, CO 80202 | 303.296.3034
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Project #: 6288

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File Location: T:\Projects\2023\23030_Chico Aquatic and Recreation Facility\23030_WORKING\AUTOCAD\SHEETS\GN002 OVERALL PLAN / SAVE DATE: 3/5/2024 4:18 PM BY: jhecandido / PLOT DATE: 1/20/2023 2:45 PM BY: Jin He-Candido

PANEL: HL2

LOCATION: ELEC 124 **VOLTS:** 480/277 Wye **A.I.C. RATING:** 35,000
SUPPLY FROM: MDP-2 **PHASES:** 3 **MAINS TYPE:** MLO
MOUNTING: Surface **WIRES:** 4 **MAINS RATING:** 100 A
ENCLOSURE: Type 1 **MCB RATING:** N/A

Notes: NEW PANEL

CKT	LOAD TYPE	LOAD DESCRIPTION	TRIP	POLES	CB TYPE	A		B		C		CB TYPE	POLES	TRIP	LOAD DESCRIPTION	LOAD TYPE	CKT
1	L	LTG - EXTERIOR FAC BLDG MOUNTED	20	1		183	2736						1	20	LTG - POOL DECK POLES	L	2
3	L	LTG - FACILITIES BLDG	20	1				1283	3026				1	20	LTG - POOL DECK POLES	L	4
5	--	SPARE	20	1						0	3207		1	20	LTG - POOL DECK POLES	L	6
7	--	SPARE	20	1		0	2358						1	20	LTG - POOL DECK, WALKWAY	L	8
9	--	SPARE	20	1				0	580				1	20	LTG - POOL DECK SPECTATOR SEATS	L	10
11	--	SPARE	20	1						0	540		1	20	LTG - PARKING	L	12
13	--	SPARE	20	1		0	0						1	20	SPARE	--	14
15	--	SPARE	20	1				0	0				1	20	SPARE	--	16
17	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	18
19	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	20
21	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	22
23	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	24
25	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	26
27	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	28
29	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	30
31	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	32
33	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	34
35	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	36
37	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	38
39	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	40
41	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	42
				Total Load:		5277 VA		4889 VA		3747 VA							
				Total Amps:		20 A		18 A		14 A							

CB TYPE LEGEND
GFCI: 5mA GROUND FAULT CIRCUIT INTERRUPTER
GFEP: 30mA GROUND FAULT PROTECTION FOR EQUIPMENT
AFCI: ARC FAULT CIRCUIT INTERRUPTER
CAFCI: COMBINATION ARC FAULT & 5mA GROUND FAULT CIRCUIT INTERRUPTER
HC(-ON/OFF): HANDLE CLAMP FOR LOCKING IN ON/OFF POSITION
HT#: HANDLE TIE WITH GROUPING #
ST: SHUNT TRIP
LOCK: PERMANENTLY LOCKABLE BREAKER

CIRCUIT PHASE CODE LEGEND
N1. EXISTING LOAD ON EXISTING CIRCUIT BREAKER.
N2. NEW LOAD ON EXISTING CIRCUIT BREAKER.
N3. NEW LOAD ON NEW CIRCUIT BREAKER. CIRCUIT BREAKER AND AIC RATING TO MATCH EXISTING.

LOAD TYPE:	LOAD	DEMAND LOAD	PANEL TOTALS	
LIGHTING:	13913 VA	17391 VA		
RECEPTACLE:			TOTAL CONN. LOAD:	13913 VA
MOTOR:			TOTAL EST. LOAD:	17391 VA
EQUIPMENT:			TOTAL CONN.:	17 A
KITCH EQUIP:			TOTAL EST. DEMAND:	21 A
CONTINUOUS:				
EXISTING:				

NOTES:

PANEL: LR1

LOCATION: ELECTRICAL ROOM 200 **VOLTS:** 120/208 Wye **A.I.C. RATING:** 10,000
SUPPLY FROM: T-LR1 **PHASES:** 3 **MAINS TYPE:** MCB
MOUNTING: Surface **WIRES:** 4 **MAINS RATING:** 400 A
ENCLOSURE: Type 1 **MCB RATING:** 250 A

Notes: NEW PANEL

CKT	LOAD TYPE	LOAD DESCRIPTION	TRIP	POLES	CB TYPE	A		B		C		CB TYPE	POLES	TRIP	LOAD DESCRIPTION	LOAD TYPE	CKT
1	R	REC - CHEM RM 1&2, POOL STOR.	20	1		720	720						1	20	REC - POOL EQUIP. RM	R	2
3	R	REC - ELEC, POOL EQUIP, RTU CONV.	20	1				720	360				1	20	REC - TELECOM BACKBOARD	R	4
5	R	REC - TELECOM BACKBOARD	20	1						360	0		1	20	SPARE	--	6
7	--	SPARE	20	1		0	0						1	20	SPARE	--	8
9	--	SPARE	20	1				0	0				1	20	SPARE	--	10
11	--	SPARE	20	1						0	0		1	20	SPARE	--	12
13	--	SPARE	20	1		0	0						1	20	SPARE	--	14
15	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	16
17	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	18
19	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	20
21	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	22
23	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	24
25	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	26
27	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	28
29	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	30
31	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	32
33	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	34
35	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	36
37	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	38
39	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	40
41	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	42
				Total Load:		1440 VA		1080 VA		360 VA							
				Total Amps:		13 A		10 A		3 A							

CB TYPE LEGEND
GFCI: 5mA GROUND FAULT CIRCUIT INTERRUPTER
GFEP: 30mA GROUND FAULT PROTECTION FOR EQUIPMENT
AFCI: ARC FAULT CIRCUIT INTERRUPTER
CAFCI: COMBINATION ARC FAULT & 5mA GROUND FAULT CIRCUIT INTERRUPTER
HC(-ON/OFF): HANDLE CLAMP FOR LOCKING IN ON/OFF POSITION
HT#: HANDLE TIE WITH GROUPING #
ST: SHUNT TRIP
LOCK: PERMANENTLY LOCKABLE BREAKER

CIRCUIT PHASE CODE LEGEND
N1. EXISTING LOAD ON EXISTING CIRCUIT BREAKER.
N2. NEW LOAD ON EXISTING CIRCUIT BREAKER.
N3. NEW LOAD ON NEW CIRCUIT BREAKER. CIRCUIT BREAKER AND AIC RATING TO MATCH EXISTING.

LOAD TYPE:	LOAD	DEMAND LOAD	PANEL TOTALS	
LIGHTING:				
RECEPTACLE:	2880 VA	2880 VA	TOTAL CONN. LOAD:	2880 VA
MOTOR:			TOTAL EST. LOAD:	2880 VA
EQUIPMENT:			TOTAL CONN.:	8 A
KITCH EQUIP:			TOTAL EST. DEMAND:	8 A
CONTINUOUS:				
EXISTING:				

NOTES:

PANEL: HM2

LOCATION: ELEC 124 **VOLTS:** 480/277 Wye **A.I.C. RATING:** 35,000
SUPPLY FROM: MDP-2 **PHASES:** 3 **MAINS TYPE:** MLO
MOUNTING: Surface **WIRES:** 4 **MAINS RATING:** 400 A
ENCLOSURE: Type 1 **MCB RATING:** N/A

Notes: NEW PANEL

CKT	LOAD TYPE	LOAD DESCRIPTION	TRIP	POLES	CB TYPE	A		B		C		CB TYPE	POLES	TRIP	LOAD DESCRIPTION	LOAD TYPE	CKT
1	E	UH-1	20	3		4018	0						3	20	SPARE	--	2
3	--	--	--	--				4018	0				--	--	--	--	4
5	--	--	--	--						4018	0		--	--	--	--	6
7	--	SPARE	20	3		0	--						1	--	BUSSED SPACE	--	8
9	--	--	--	--				0	--				1	--	BUSSED SPACE	--	10
11	--	--	--	--						0	--		1	--	BUSSED SPACE	--	12
13	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	14
15	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	16
17	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	18
19	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	20
21	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	22
23	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	24
25	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	26
27	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	28
29	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	30
31	--	BUSSED SPACE	--	1		--	7184						3	100	PANEL 'HM3'	L; E;...	32
33	--	BUSSED SPACE	--	1				--	4362				--	--	--	--	34
35	--	BUSSED SPACE	--	1						--	4018		--	--	--	--	36
37	E; Spare	PANEL 'LM2'	125	3		2343	25146						3	125	PANEL 'LR2'	L; E;...	38
39	--	--	--	--				3541	23191				--	--	--	--	40
41	--	--	--	--						0	22576		--	--	--	--	42
				Total Load:		38691 VA		35112 VA		30612 VA							
				Total Amps:		142 A		129 A		111 A							

CB TYPE LEGEND
GFCI: 5mA GROUND FAULT CIRCUIT INTERRUPTER
GFEP: 30mA GROUND FAULT PROTECTION FOR EQUIPMENT
AFCI: ARC FAULT CIRCUIT INTERRUPTER
CAFCI: COMBINATION ARC FAULT & 5mA GROUND FAULT CIRCUIT INTERRUPTER
HC(-ON/OFF): HANDLE CLAMP FOR LOCKING IN ON/OFF POSITION
HT#: HANDLE TIE WITH GROUPING #
ST: SHUNT TRIP
LOCK: PERMANENTLY LOCKABLE BREAKER

CIRCUIT PHASE CODE LEGEND
N1. EXISTING LOAD ON EXISTING CIRCUIT BREAKER.
N2. NEW LOAD ON EXISTING CIRCUIT BREAKER.
N3. NEW LOAD ON NEW CIRCUIT BREAKER. CIRCUIT BREAKER AND AIC RATING TO MATCH EXISTING.

LOAD TYPE:	LOAD	DEMAND LOAD	PANEL TOTALS	
LIGHTING:	6410 VA	8013 VA		
RECEPTACLE:	29885 VA	19943 VA	TOTAL CONN. LOAD:	104416 VA
MOTOR:			TOTAL EST. LOAD:	96076 VA
EQUIPMENT:	68121 VA	68121 VA	TOTAL CONN.:	126 A
KITCH EQUIP:			TOTAL EST. DEMAND:	116 A
CONTINUOUS:				
EXISTING:				

NOTES:

PANEL: LM1

LOCATION: ELECTRICAL ROOM 200 **VOLTS:** 120/208 Wye **A.I.C. RATING:** 10,000
SUPPLY FROM: T-LM1 **PHASES:** 3 **MAINS TYPE:** MCB
MOUNTING: Surface **WIRES:** 4 **MAINS RATING:** 400 A
ENCLOSURE: Type 1 **MCB RATING:** 250 A

Notes: NEW PANEL

CKT	LOAD TYPE	LOAD DESCRIPTION	TRIP	POLES	CB TYPE	A		B		C		CB TYPE	POLES	TRIP	LOAD DESCRIPTION	LOAD TYPE	CKT
1	E	DFC-2, DCU-2	20	2		1835	1920						1	30	EF-6	M	2
3	--	--	--	--				1835	1920				1	30	EF-7	M	4
5	M	EF-8	30	1						1920	1176		1	20	SE-1	M	6
7	M	SE-2	20	1		1176	6650						2	80	EWH-2	E	8
9	E	SE-1 & SE-2 CONTROL PANEL	20	1				1200	6650				--	--	--	--	10
11	M	SP-1	15	3						961	961		3	15	SP-2	M	12
13	--	--	--	--		961	961						--	--	--	--	14
15	--	--	--	--				961	961				--	--	--	--	16
17	E	SP-1 & SP-2 CONTROL PANEL	20	1						1200	0		1	20	SPARE	--	18
19	--	SPARE	20	1		0	0						1	20	SPARE	--	20
21	--	SPARE	20	1				0	0				1	20	SPARE	--	22
23	--	SPARE	20	1						0	0		1	20	SPARE	--	24
25	--	SPARE	20	1		0	0						1	20	SPARE	--	26
27	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	28
29	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	30
31	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	32
33	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	34
35	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	36
37	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	38
39	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	40
41	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	42
				Total Load:		13502 VA		13526 VA		6217 VA							
				Total Amps:		122 A		122 A		52 A							

CB TYPE LEGEND
GFCI: 5mA GROUND FAULT CIRCUIT INTERRUPTER
GFEP: 30mA GROUND FAULT PROTECTION FOR EQUIPMENT
AFCI: ARC FAULT CIRCUIT INTERRUPTER
CAFCI: COMBINATION ARC FAULT & 5mA GROUND FAULT CIRCUIT INTERRUPTER
HC(-ON/OFF): HANDLE CLAMP FOR LOCKING IN ON/OFF POSITION
HT#: HANDLE TIE WITH GROUPING #
ST: SHUNT TRIP
LOCK: PERMANENTLY LOCKABLE BREAKER

CIRCUIT PHASE CODE LEGEND
N1. EXISTING LOAD ON EXISTING CIRCUIT BREAKER.
N2. NEW LOAD ON EXISTING CIRCUIT BREAKER.
N3. NEW LOAD ON NEW CIRCUIT BREAKER. CIRCUIT BREAKER AND AIC RATING TO MATCH EXISTING.

LOAD TYPE:	LOAD	DEMAND LOAD	PANEL TOTALS	
LIGHTING:				
RECEPTACLE:			TOTAL CONN. LOAD:	33245 VA
MOTOR:	13876 VA	14597 VA	TOTAL EST. LOAD:	33966 VA
EQUIPMENT:	19369 VA	19369 VA	TOTAL CONN.:	92 A
KITCH EQUIP:			TOTAL EST. DEMAND:	94 A
CONTINUOUS:				
EXISTING:				

NOTES:

AE DESIGN
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aedesign-inc.com Project #: 6288

CONFLUENCE
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530.895.1422

BARKER RINKER SEACAT ARCHITECTURE

PERMIT REVIEW & BID SET ONLY
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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

ELECTRICAL PANEL SCHEDULES

E7.2

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THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, IF PRINTED CORRECTLY

PANEL: LM2

LOCATION: ELEC 124
SUPPLY FROM: T-LM2
MOUNTING: Surface
ENCLOSURE: Type 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 10,000
MAINS TYPE: MCB
MAINS RATING: 400 A
MCB RATING: 250 A

Notes: NEW PANEL

CKT	LOAD TYPE	LOAD DESCRIPTION	TRIP	POLES	CB TYPE	A		B		C		CB TYPE	POLES	TRIP	LOAD DESCRIPTION	LOAD TYPE	CKT
1	E	DFC-1, DCU-1	20	2		1741	0						1	20	SPARE	--	2
3	--	--	--	--				1741	0				1	20	SPARE	--	4
5	--	SPARE	20	1						0	0		1	20	SPARE	--	6
7	--	SPARE	20	1		0	0						1	20	SPARE	--	8
9	--	SPARE	20	1				0	0				1	20	SPARE	--	10
11	--	SPARE	20	1						0	0		1	20	SPARE	--	12
13	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	14
15	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	16
17	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	18
19	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	20
21	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	22
23	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	24
25	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	26
27	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	28
29	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	30
31	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	32
33	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	34
35	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	36
37	--	BUSSED SPACE	--	1		--	602						3	100	PANEL 'LM3'	E; Spare	38
39	--	BUSSED SPACE	--	1				--	1800				--	--	--	--	40
41	--	BUSSED SPACE	--	1						--	0		--	--	--	--	42
				Total Load:		2343 VA		3541 VA		0 VA							
				Total Amps:		23 A		33 A		0 A							

CB TYPE LEGEND
GFCI: 5mA GROUND FAULT CIRCUIT INTERRUPTER
GFEP: 30mA GROUND FAULT PROTECTION FOR EQUIPMENT
AFCI: ARC FAULT CIRCUIT INTERRUPTER
CAFCI: COMBINATION ARC FAULT & 5mA GROUND FAULT CIRCUIT INTERRUPTER
HC(-ON/OFF): HANDLE CLAMP FOR LOCKING IN ON/OFF POSITION
HT#: HANDLE TIE WITH GROUPING #
ST: SHUNT TRIP
LOCK: PERMANENTLY LOCKABLE BREAKER

CIRCUIT PHASE CODE LEGEND
N1. EXISTING LOAD ON EXISTING CIRCUIT BREAKER.
N2. NEW LOAD ON EXISTING CIRCUIT BREAKER.
N3. NEW LOAD ON NEW CIRCUIT BREAKER. CIRCUIT BREAKER AND AIC RATING TO MATCH EXISTING.

LOAD TYPE:	LOAD	DEMAND LOAD	PANEL TOTALS	
LIGHTING:				
RECEPTACLE:			TOTAL CONN. LOAD:	5884 VA
MOTOR:			TOTAL EST. LOAD:	5884 VA
EQUIPMENT:	5884 VA	5884 VA	TOTAL CONN.:	16 A
KITCH EQUIP:			TOTAL EST. DEMAND:	16 A
CONTINUOUS:				
EXISTING:				

NOTES:

PANEL: HM3

LOCATION: JANITORIAL STORAGE 103
SUPPLY FROM: HM2
MOUNTING: Surface
ENCLOSURE: Type 1

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 14,000 AIC
MAINS TYPE: MLO
MAINS RATING: 100 A
MCB RATING: N/A

Notes: NEW PANEL

CKT	LOAD TYPE	LOAD DESCRIPTION	TRIP	POLES	CB TYPE	A		B		C		CB TYPE	POLES	TRIP	LOAD DESCRIPTION	LOAD TYPE	CKT
1	E	UH-2	20	3		4018	3166						1	20	LTG - BATHHOUSE BLDG	L	2
3	--	--	--	--				4018	344				1	20	LTG - EXTERIOR BATH BLDG MOUNTED	L	4
5	--	--	--	--						4018	0		1	20	SPARE	--	6
7	--	SPARE	20	3		0	0						3	20	SPARE	--	8
9	--	--	--	--				0	0				--	--	--	--	10
11	--	--	--	--						0	0		--	--	--	--	12
13	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	14
15	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	16
17	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	18
19	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	20
21	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	22
23	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	24
25	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	26
27	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	28
29	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	30
31	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	32
33	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	34
35	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	36
37	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	38
39	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	40
41	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	42
				Total Load:		7184 VA		4362 VA		4018 VA							
				Total Amps:		26 A		16 A		15 A							

CB TYPE LEGEND
GFCI: 5mA GROUND FAULT CIRCUIT INTERRUPTER
GFEP: 30mA GROUND FAULT PROTECTION FOR EQUIPMENT
AFCI: ARC FAULT CIRCUIT INTERRUPTER
CAFCI: COMBINATION ARC FAULT & 5mA GROUND FAULT CIRCUIT INTERRUPTER
HC(-ON/OFF): HANDLE CLAMP FOR LOCKING IN ON/OFF POSITION
HT#: HANDLE TIE WITH GROUPING #
ST: SHUNT TRIP
LOCK: PERMANENTLY LOCKABLE BREAKER

CIRCUIT PHASE CODE LEGEND
N1. EXISTING LOAD ON EXISTING CIRCUIT BREAKER.
N2. NEW LOAD ON EXISTING CIRCUIT BREAKER.
N3. NEW LOAD ON NEW CIRCUIT BREAKER. CIRCUIT BREAKER AND AIC RATING TO MATCH EXISTING.

LOAD TYPE:	LOAD	DEMAND LOAD	PANEL TOTALS	
LIGHTING:	3510 VA	4388 VA		
RECEPTACLE:			TOTAL CONN. LOAD:	15565 VA
MOTOR:			TOTAL EST. LOAD:	16442 VA
EQUIPMENT:	12055 VA	12055 VA	TOTAL CONN.:	19 A
KITCH EQUIP:			TOTAL EST. DEMAND:	20 A
CONTINUOUS:				
EXISTING:				

NOTES:

PANEL: LM3

LOCATION: JANITORIAL STORAGE 103
SUPPLY FROM: LM2
MOUNTING: Surface
ENCLOSURE: Type 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 10,000 AIC
MAINS TYPE: MLO
MAINS RATING: 100 A
MCB RATING: N/A

Notes: NEW PANEL

CKT	LOAD TYPE	LOAD DESCRIPTION	TRIP	POLES	CB TYPE	A		B		C		CB TYPE	POLES	TRIP	LOAD DESCRIPTION	LOAD TYPE	CKT
1	E	EF-1 THRU 5	15	1		362	240						1	15	PP-1, PP-2	E	2
3	E	GWH-1	15	1				900	900				1	15	GWH-2	E	4
5	--	SPARE	20	1						0	0		1	20	SPARE	--	6
7	--	SPARE	20	1		0	0						1	20	SPARE	--	8
9	--	SPARE	20	1				0	0				1	20	SPARE	--	10
11	--	SPARE	20	1						0	0		1	20	SPARE	--	12
13	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	14
15	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	16
17	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	18
19	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	20
21	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	22
23	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	24
25	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	26
27	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	28
29	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	30
31	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	32
33	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	34
35	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	36
37	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	38
39	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	40
41	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	42
				Total Load:		602 VA		1800 VA		0 VA							
				Total Amps:		6 A		16 A		0 A							

CB TYPE LEGEND
GFCI: 5mA GROUND FAULT CIRCUIT INTERRUPTER
GFEP: 30mA GROUND FAULT PROTECTION FOR EQUIPMENT
AFCI: ARC FAULT CIRCUIT INTERRUPTER
CAFCI: COMBINATION ARC FAULT & 5mA GROUND FAULT CIRCUIT INTERRUPTER
HC(-ON/OFF): HANDLE CLAMP FOR LOCKING IN ON/OFF POSITION
HT#: HANDLE TIE WITH GROUPING #
ST: SHUNT TRIP
LOCK: PERMANENTLY LOCKABLE BREAKER

CIRCUIT PHASE CODE LEGEND
N1. EXISTING LOAD ON EXISTING CIRCUIT BREAKER.
N2. NEW LOAD ON EXISTING CIRCUIT BREAKER.
N3. NEW LOAD ON NEW CIRCUIT BREAKER. CIRCUIT BREAKER AND AIC RATING TO MATCH EXISTING.

LOAD TYPE:	LOAD	DEMAND LOAD	PANEL TOTALS	
LIGHTING:				
RECEPTACLE:			TOTAL CONN. LOAD:	2402 VA
MOTOR:			TOTAL EST. LOAD:	2402 VA
EQUIPMENT:	2402 VA	2402 VA	TOTAL CONN.:	7 A
KITCH EQUIP:			TOTAL EST. DEMAND:	7 A
CONTINUOUS:				
EXISTING:				

NOTES:

PANEL: LR2

LOCATION: ELEC 124
SUPPLY FROM: T-LR2
MOUNTING: Surface
ENCLOSURE: Type 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 10,000
MAINS TYPE: MCB
MAINS RATING: 400 A
MCB RATING: 250 A

Notes: NEW PANEL

CKT	LOAD TYPE	LOAD DESCRIPTION	TRIP	POLES	CB TYPE	A		B		C		CB TYPE	POLES	TRIP	LOAD DESCRIPTION	LOAD TYPE	CKT
1	R	REC - ELEC 124, ADMIN 123	20	1		1080	1080						1	20	REC - TICKETING 122	R	2
3	R	REC - TICKETING 122, PARTY 119	20	1				1080	900				1	20	REC - ADMIN 123, PARTY 119	R	4
5	R	REC - PARTY 119, STORAGE 121	20	1						1080	1176		1	20	REC - PARTY GARBAGE DISPOSAL	E	6
7	E	REC - PARTY GARBAGE DISPOSAL	20	1		1176	900						1	20	REC - PARTY 119, EXT. REC	R	8
9	R	REC - RM 116, 117, 118, EXT, RTU-1	20	1				1080	360				1	20	REC - TELECOM BACKBOARD	R	10
11	R	REC - TELECOM BACKBOARD	20	1						360	1000		1	20	SECURITY PANEL	E	12
13	E	CHANGING 116 HAND DRYER	20	1		1200	1200						1	20	CHANGING 117 HAND DRYER	E	14
15	E	ADULT CHANGING TABLE	15	1				600	1000				1	20	TC CONTROL PANEL RM 118	E	16
17	--	SPARE	20	1						0	900		1	20	REC - PARTY 119	R	18
19	--	SPARE	20	1		0	500						1	20	NHUB	L	20
21	--	SPARE	20	1				0	0				1	20	SPARE	--	22
23	--	SPARE	20	1						0	0		1	20	SPARE	--	24
25	--	SPARE	20	1		0	--						1	--	BUSSED SPACE	--	26
27	--	SPARE	20	1				0	--				1	--	BUSSED SPACE	--	28
29	--	SPARE	20	1						0	--		1	--	BUSSED SPACE	--	30
31	--	SPARE	20	1		0	--						1	--	BUSSED SPACE	--	32
33	--	SPARE	20	1				0	--				1	--	BUSSED SPACE	--	34
35	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	36
37	--	BUSSED SPACE	--	1		--	18010						3	150	PANEL 'LR3'	L; E;...	38
39	--	BUSSED SPACE	--	1				--	18171				--	--	--	--	40
41	--	BUSSED SPACE	--	1						--	18060		--	--	--	--	42
				Total Load:		25146 VA		23191 VA		22576 VA							
				Total Amps:		210 A		194 A		188 A							

CB TYPE LEGEND
GFCI: 5mA GROUND FAULT CIRCUIT INTERRUPTER
GFEP: 30mA GROUND FAULT PROTECTION FOR EQUIPMENT
AFCI: ARC FAULT CIRCUIT INTERRUPTER
CAFCI: COMBINATION ARC FAULT & 5mA GROUND FAULT CIRCUIT INTERRUPTER
HC(-ON/OFF): HANDLE CLAMP FOR LOCKING IN ON/OFF POSITION
HT#: HANDLE TIE WITH GROUPING #
ST: SHUNT TRIP
LOCK: PERMANENTLY LOCKABLE BREAKER

CIRCUIT PHASE CODE LEGEND
N1. EXISTING LOAD ON EXISTING CIRCUIT BREAKER.
N2. NEW LOAD ON EXISTING CIRCUIT BREAKER.
N3. NEW LOAD ON NEW CIRCUIT BREAKER. CIRCUIT BREAKER AND AIC RATING TO MATCH EXISTING.

LOAD TYPE:	LOAD	DEMAND LOAD	PANEL TOTALS	
LIGHTING:	2900 VA	3625 VA		
RECEPTACLE:	29885 VA	19943 VA	TOTAL CONN. LOAD:	70913 VA
MOTOR:			TOTAL EST. LOAD:	61696 VA
EQUIPMENT:	38128 VA	38128 VA	TOTAL CONN.:	197 A
KITCH EQUIP:			TOTAL EST. DEMAND:	171 A
CONTINUOUS:				
EXISTING:				

NOTES:

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Integrated Lighting, Technology, and Electrical Solutions
1900 Wazee Street #205 | Denver, CO 80202 | 303.296.3034
aedesign-inc.com
Project #: 6288

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BARKER RINKER SEACAT ARCHITECTURE

PERMIT REVIEW & BID SET ONLY
DOCUMENT PACKAGE NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

ELECTRICAL PANEL SCHEDULES

E7.3

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PANEL: LR3

LOCATION: JANITORIAL STORAGE 103
SUPPLY FROM: LR2
MOUNTING: Surface
ENCLOSURE: Type 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 10,000 AIC
MAINS TYPE: MLO
MAINS RATING: 225 A
MCB RATING: N/A

Notes: NEW 84-CIRCUIT, 2-SECTION PANEL

SECTION 1 (CKT 1–42) / SECTION 2 (CKT 43–84)

CKT	LOAD TYPE	LOAD DESCRIPTION	TRIP	POLES	CB TYPE	A	A	B	B	C	C	CB TYPE	POLES	TRIP	LOAD DESCRIPTION	LOAD TYPE	CKT
1	R	REC - LEISURE POOL DECK	20	1		180	250						1	20	REC - SNO CONE MACHINE	R	2
3	R	REC - PRETZEL WARMER	20	1				225	360				1	20	REC - POOL TIMING SYSTEM	R	4
5	R	REC - NACHO CHEESE WARMER	20	1						250	450		1	20	LTG - LAP POOL B	L	6
7	R	REC - MENS/WOMENS RR	20	1		720	750					GFCI	1	20	REC - CONCESSIONS FRIDGE	R	8
9	R	COMP. POOL VACUUM	20	1	GFEP			500	700			GFCI	1	20	REC - ICE MACHINE	R	10
11	L	LTG - LAP POOL A	20	1						950	1200		1	20	CHANGING 113 HAND DRYER	E	12
13	R	REC - LIFEGAURD BREAK 101, EXT.	20	1		900	180						1	20	REC - POOL DECK	R	14
15	E	REC - LIFEGUARD BREAK GD	20	1				1176	180				1	20	REC - POOL TIMING SYSTEM	R	16
17	R	REC - POOL TIMING SYSTEM	20	1						180	500	GFEP	1	20	WARM-UP POOL VACUUM	R	18
19	R	REC - POOL SCOREBOARD	20	1		500	500						1	20	REC - POOL SCOREBOARD	R	20
21	R	REC - POOL SCOREBOARD	20	1				500	500				1	20	REC - POOL SCOREBOARD	R	22
23	R	REC - POOL SCOREBOARD	20	1						500	500		1	20	REC - POOL SCOREBOARD	R	24
25	R	REC - POOL SCOREBOARD	20	1		500	500					GFEP	1	20	LEISURE POOL VACUUM	R	26
27	R	REC - POOL SCOREBOARD	20	1				500	500				1	20	REC - POOL SCOREBOARD	R	28
29	R	REC - POOL SCOREBOARD	20	1						500	500	GFEP	1	20	LEISURE POOL VACUUM	R	30
31	R	COMP. POOL VACUUM	20	1	GFEP	500	750					GFCI	1	20	REC - CONCESSIONS FRIDGE	R	32
33	R	LEISURE POOL VACUUM	20	1	GFEP			500	750			GFCI	1	20	REC - FUTURE STORAGE FRIDGE	R	34
35	R	REC - LIFEGUARD BREAK FRIDGE	20	1	GFCI					750	900		1	20	REC - SWIM OFFICE 104, JAN. 103	R	36
37	R	REC - LIFEGUARDS 100	20	1		900	1000						1	20	TC CONTROL PANEL RM 115	E	38
39	R	REC - MENS/WOMENS RR, EXT. REC	20	1				900	1000				1	20	WOMEN'S RR SUIT SPINNER	E	40
41	E	WOMEN'S RR SUIT SPINNER	20	1						1000	1000		1	20	MEN'S RR SUIT SPINNER	E	42
43	L	LTG - LAP POOL A	20	1		1000	1000						1	15	CONCESSIONS WINDOW	E	44
45	E	MEN'S RR SUIT SPINNER	20	1				1000	1000				1	15	CONCESSIONS WINDOW	E	46
47	E	CONCESSIONS WINDOW	15	1						1000	1080		1	20	REC - RM 111-115, ERV-1 CONV.	R	48
49	R	REC - AQUATICS OFFICE 102	20	1		1080	1200						1	20	WOMEN'S RR HAND DRYER	E	50
51	R	REC - CONCESS. 111	20	1				1080	1200				1	20	WOMEN'S RR HAND DRYER	E	52
53	E	WOMEN'S RR HAND DRYER	20	1						1200	1200		1	20	WOMEN'S RR HAND DRYER	E	54
55	E	MEN'S RR HAND DRYER	20	1		1200	1200						1	20	CHANGING 114 HAND DRYER	E	56
57	E	MEN'S RR HAND DRYER	20	1				1200	1200				1	20	MEN'S RR HAND DRYER	E	58
59	E	MEN'S RR HAND DRYER	20	1						1200	1600		2	20	CONCESSIONS COMBI OVEN	E	60
61	E	CONCESSIONS COMBI OVEN	20	2		1600	1600						--	--	--	--	62
63	--	--	--	--				1600	1600				2	20	CONCESSIONS COMBI OVEN	E	64
65	--	SPARE	20	1						0	1600		--	--	--	--	66
67	--	SPARE	20	1		0	0						1	20	SPARE	--	68
69	--	SPARE	20	1				0	0				1	20	SPARE	--	70
71	--	SPARE	20	1						0	0		1	20	SPARE	--	72
73	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	74
75	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	76
77	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	78
79	--	BUSSED SPACE	--	1		--	--						1	--	BUSSED SPACE	--	80
81	--	BUSSED SPACE	--	1				--	--				1	--	BUSSED SPACE	--	82
83	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	84
					Total Load:	18010 VA		18171 VA		18060 VA							
					Total Amps:	150 A		151 A		151 A							

CB TYPE LEGEND
GFCI: 5mA GROUND FAULT CIRCUIT INTERRUPTER
GFEP: 30mA GROUND FAULT PROTECTION FOR EQUIPMENT
AFCI: ARC FAULT CIRCUIT INTERRUPTER
CAFCI: COMBINATION ARC FAULT & 5mA GROUND FAULT CIRCUIT INTERRUPTER
HC(-ON/OFF): HANDLE CLAMP FOR LOCKING IN ON/OFF POSITION
HT#: HANDLE TIE WITH GROUPING #
ST: SHUNT TRIP
LOCK: PERMANENTLY LOCKABLE BREAKER

CIRCUIT PHASE CODE LEGEND
N1. EXISTING LOAD ON EXISTING CIRCUIT BREAKER.
N2. NEW LOAD ON EXISTING CIRCUIT BREAKER.
N3. NEW LOAD ON NEW CIRCUIT BREAKER. CIRCUIT BREAKER AND AIC RATING TO MATCH EXISTING.

LOAD TYPE:	LOAD	DEMAND LOAD	PANEL TOTALS	
LIGHTING:	2400 VA	3000 VA		
RECEPTACLE:	21065 VA	15533 VA	TOTAL CONN. LOAD:	54241 VA
MOTOR:			TOTAL EST. LOAD:	49309 VA
EQUIPMENT:	30776 VA	30776 VA	TOTAL CONN.:	151 A
KITCH EQUIP:			TOTAL EST. DEMAND:	137 A
CONTINUOUS:				
EXISTING:				

NOTES:

PANEL: LEV1

LOCATION: ELEC 124
SUPPLY FROM: T-LEV1
MOUNTING: Surface
ENCLOSURE: Type 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 10,000
MAINS TYPE: MCB
MAINS RATING: 600 A
MCB RATING: 500 A

Notes: NEW PANEL

CKT	LOAD TYPE	LOAD DESCRIPTION	TRIP	POLES	CB TYPE	A	A	B	B	C	C	CB TYPE	POLES	TRIP	LOAD DESCRIPTION	LOAD TYPE	CKT
1	E	EV CHARGER	40	2		3328	3328						2	40	EV CHARGER	E	2
3	--	--	--	--				3328	3328				--	--	--	--	4
5	E	EV CHARGER	40	2						3328	3328		2	40	EV CHARGER	E	6
7	--	--	--	--		3328	3328						--	--	--	--	8
9	E	EV CHARGER	40	2				3328	3328				2	40	EV CHARGER	E	10
11	--	--	--	--						3328	3328		--	--	--	--	12
13	E	EV CHARGER	40	2		3328	3328						2	40	EV CHARGER	E	14
15	--	--	--	--				3328	3328				--	--	--	--	16
17	E	EV CHARGER	40	2						3328	3328		2	40	EV CHARGER	E	18
19	--	--	--	--		3328	3328						--	--	--	--	20
21	--	SPARE	40	2				0	0				2	40	SPARE	--	22
23	--	--	--	--						0	0		--	--	--	--	24
25	--	SPARE	40	2		0	0						2	40	SPARE	--	26
27	--	--	--	--				0	0				--	--	--	--	28
29	--	SPARE	40	2						0	0		2	40	SPARE	--	30
31	--	--	--	--		0	0						--	--	--	--	32
33	--	SPARE	40	2				0	0				2	40	SPARE	--	34
35	--	--	--	--						0	0		--	--	--	--	36
37	--	SPARE	40	2		0	0						2	40	SPARE	--	38
39	--	--	--	--				0	0				--	--	--	--	40
41	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	42
					Total Load:	26624 VA		19968 VA		19968 VA							
					Total Amps:	222 A		166 A		166 A							

CB TYPE LEGEND
GFCI: 5mA GROUND FAULT CIRCUIT INTERRUPTER
GFEP: 30mA GROUND FAULT PROTECTION FOR EQUIPMENT
AFCI: ARC FAULT CIRCUIT INTERRUPTER
CAFCI: COMBINATION ARC FAULT & 5mA GROUND FAULT CIRCUIT INTERRUPTER
HC(-ON/OFF): HANDLE CLAMP FOR LOCKING IN ON/OFF POSITION
HT#: HANDLE TIE WITH GROUPING #
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LOCK: PERMANENTLY LOCKABLE BREAKER

CIRCUIT PHASE CODE LEGEND
N1. EXISTING LOAD ON EXISTING CIRCUIT BREAKER.
N2. NEW LOAD ON EXISTING CIRCUIT BREAKER.
N3. NEW LOAD ON NEW CIRCUIT BREAKER. CIRCUIT BREAKER AND AIC RATING TO MATCH EXISTING.

LOAD TYPE:	LOAD	DEMAND LOAD	PANEL TOTALS	
LIGHTING:				
RECEPTACLE:			TOTAL CONN. LOAD:	66560 VA
MOTOR:			TOTAL EST. LOAD:	66560 VA
EQUIPMENT:	66560 VA	66560 VA	TOTAL CONN.:	185 A
KITCH EQUIP:			TOTAL EST. DEMAND:	185 A
CONTINUOUS:				
EXISTING:				

NOTES:

PANEL: LEV2

LOCATION: ELEC 124
SUPPLY FROM: T-LEV2
MOUNTING: Surface
ENCLOSURE: Type 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 10,000
MAINS TYPE: MCB
MAINS RATING: 600 A
MCB RATING: 500 A

Notes: NEW PANEL

CKT	LOAD TYPE	LOAD DESCRIPTION	TRIP	POLES	CB TYPE	A	A	B	B	C	C	CB TYPE	POLES	TRIP	LOAD DESCRIPTION	LOAD TYPE	CKT
1	--	SPARE	40	2		0	0						2	40	SPARE	--	2
3	--	--	--	--				0	0				--	--	--	--	4
5	--	SPARE	40	2						0	0		2	40	SPARE	--	6
7	--	--	--	--		0	0						--	--	--	--	8
9	--	SPARE	40	2				0	0				2	40	SPARE	--	10
11	--	--	--	--						0	0		--	--	--	--	12
13	--	SPARE	40	2		0	0						2	40	SPARE	--	14
15	--	--	--	--				0	0				--	--	--	--	16
17	--	SPARE	40	2						0	0		2	40	SPARE	--	18
19	--	--	--	--		0	0						--	--	--	--	20
21	--	SPARE	40	2				0	0				2	40	SPARE	--	22
23	--	--	--	--						0	0		--	--	--	--	24
25	--	SPARE	40	2		0	0						2	40	SPARE	--	26
27	--	--	--	--				0	0				--	--	--	--	28
29	--	SPARE	40	2						0	0		2	40	SPARE	--	30
31	--	--	--	--		0	0						--	--	--	--	32
33	--	SPARE	40	2				0	0				2	40	SPARE	--	34
35	--	--	--	--						0	0		--	--	--	--	36
37	--	SPARE	40	2		0	0						2	40	SPARE	--	38
39	--	--	--	--				0	0				--	--	--	--	40
41	--	BUSSED SPACE	--	1						--	--		1	--	BUSSED SPACE	--	42
					Total Load:	0 VA		0 VA		0 VA							
					Total Amps:	0 A		0 A		0 A							

CB TYPE LEGEND
GFCI: 5mA GROUND FAULT CIRCUIT INTERRUPTER
GFEP: 30mA GROUND FAULT PROTECTION FOR EQUIPMENT
AFCI: ARC FAULT CIRCUIT INTERRUPTER
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N3. NEW LOAD ON NEW CIRCUIT BREAKER. CIRCUIT BREAKER AND AIC RATING TO MATCH EXISTING.

LOAD TYPE:	LOAD	DEMAND LOAD	PANEL TOTALS	
LIGHTING:				
RECEPTACLE:			TOTAL CONN. LOAD:	0 VA
MOTOR:			TOTAL EST. LOAD:	0 VA
EQUIPMENT:			TOTAL CONN.:	0 A
KITCH EQUIP:			TOTAL EST. DEMAND:	0 A
CONTINUOUS:				
EXISTING:				

NOTES:

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Project #: 6288

CONFLUENCE

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Chico, CA 95973
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BARKER RINKER SEACAT ARCHITECTURE

PERMIT REVIEW & BID SET ONLY
DOCUMENT PACKAGE NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

ELECTRICAL PANEL SCHEDULES

E7.4

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THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, IF PRINTED CORRECTLY
plot to .pdf in color for paper plots, use black & white whenever possible to save printing costs
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAGE SIZE

1/22/2025 1:07:27 PM Autodesk Docs://Chico CA Aquatics Center/6288.00 - Chico Aquatics - Electrical Central.rvt
File Location: T:\Projects\2023\23030_Chico Aquatic and Recreation Facility\23030_WORKING\AUTOCAD\SHEETS\GN002 OVERALL PLAN / SAVE DATE: 3/5/2024 4:18 PM BY: jhecandido / PLOT DATE: 1/20/2023 2:45 PM BY: Jin He-Candido

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	VOLTAGE	LAMP QUAN.	LAMP WATTAGE	LAMP / CCT / CRI	MAX WATTAGE	LUMEN OUTPUT	DIMMING / MIN LEVEL	FIXTURE FINISH	MOUNTING	BOF/RFD/OFH	NOTES
D1	GYPSUM CEILING RECESSED, 6" DIAMETER FIXED RECESSED LED DOWNLIGHT, FLUSH LENS, WIDE BEAM DISTRIBUTION WITH STANDARD 1/2" FLANGE AND CLEAR SEMI SPECULAR REFLECTOR, WET LOCATION RATED	LITHONIA	LDN6-35/15-L06AR-LSS-TRW-MVOLT-GZ10	277 V	1	18 W	LED / 3500K / 80CRI	18 VA	1,514	0-10V TO 10%	WHITE, CLEAR/SEMI-SPECULAR	RECESSED CEILING	5-11/16" RFD	
D1EM	GYPSUM CEILING RECESSED, 6" DIAMETER FIXED RECESSED LED DOWNLIGHT, FLUSH LENS, WIDE BEAM DISTRIBUTION WITH STANDARD 1/2" FLANGE AND CLEAR SEMI SPECULAR REFLECTOR, WET LOCATION RATED, WITH INTEGRAL EMERGENCY BATTERY, INTEGRAL TEST SWITCH	LITHONIA	LDN6-35/15-L06AR-LSS-TRW-MVOLT-GZ10-E10WCP	277 V	1	18 W	LED / 3500K / 80CRI	18 VA	1,514	0-10V TO 10%	WHITE, CLEAR/SEMI-SPECULAR	RECESSED CEILING	5-11/16" RFD	
L2-6	STRUCTURE SUSPENDED 6'-0" LONG LED LINEAR, DIRECT ONLY OUTPUT, 4" APERTURE, FLUSH LENS, BATWING DISTRIBUTION, 1250LM/FT, 10.5 W/FT, DECLARE LISTED	PRUDENTIAL	BPRO4-LIN-FLSH-LED35-HO-6-TMW-BTW-SC-UNV-X3-DM01	277 V	1	63 W	LED / 3500K / 80CRI	63 VA	7,500	0-10V TO 1%	MATTE WHITE	SUSPENDED CEILING	10'-0" BOF	
L2-6EM	STRUCTURE SUSPENDED 6'-0" LONG LED LINEAR, DIRECT ONLY OUTPUT, 4" APERTURE, FLUSH LENS, BATWING DISTRIBUTION, 1250LM/FT, 10.5 W/FT, DECLARE LISTED, INTEGRAL EMERGENCY BATTERY	PRUDENTIAL	BPRO4-LIN-FLSH-LED35-HO-6-TMW-BTW-SC-UNV-X3-DM01-EMHE	277 V	1	63 W	LED / 3500K / 80CRI	63 VA	7,500	0-10V TO 1%	MATTE WHITE	SUSPENDED CEILING	10'-0" BOF	
L3-8	STRUCTURE SUSPENDED 8'-0" LONG LED LINEAR, DIRECT ONLY OPTIC WITH 1" APERTURE, 825LM/FT, 9.3W/FT, DECLARE LISTED, REMOTE SURFACE MOUNTED DRIVER (2-1/8"X2-1/4"XFIXTURE LENGTH)	PRUDENTIAL	PRU1-STD-LED35-HO-NA-R8-YBK-SAL-NU-SC-UNV-CORD96-X3-DBS-YBK-DM01	277 V	1	74 W	LED / 3500K / 80CRI	74 VA	6,600	0-10V TO 1%	MATTE BLACK	SUSPENDED CEILING	13'-0" BOF	4
L3-12EM	STRUCTURE SUSPENDED 12'-0" LONG LED LINEAR, DIRECT ONLY OPTIC WITH 1" APERTURE, 825LM/FT, 9.3W/FT, DECLARE LISTED, REMOTE SURFACE MOUNTED DRIVER (2-1/8"X2-1/4"XFIXTURE LENGTH) WITH EMERGENCY BATTERY BACKUP	PRUDENTIAL	PRU1-STD-LED35-HO-NA-R12-YBK-SAL-NU-SC-UNV-CORD96-X3-DBS-YBK-DM01-EMHE-RTK	277 V	1	112 W	LED / 3500K / 80CRI	112 VA	9,900	0-10V TO 1%	MATTE BLACK	SUSPENDED CEILING	13'-0" BOF	4
L4-8	STRUCTURE SUSPENDED 8'-0" LONG LED LINEAR INTEGRAL TO ACOUSTIC BAFFLE, DIRECT ONLY OPTIC WITH 1" APERTURE, 500LM/FT, 5.5W/FT, DECLARE LISTED, 11.25" PROFILE HEIGHT	FOCAL POINT	ASM1S-BW-12-500LF-35K-1C-UNV-L1-J96BK-BKCD-[FINISH]-8FT0IN	277 V	1	44 W	LED / 3500K / 80CRI	44 VA	4,000	0-10V TO 1%	TBD	SUSPENDED CEILING	13'-0" BOF	
L4-8EM	STRUCTURE SUSPENDED 8'-0" LONG LED LINEAR INTEGRAL TO ACOUSTIC BAFFLE, DIRECT ONLY OPTIC WITH 1" APERTURE, 500LM/FT, 5.5W/FT, DECLARE LISTED, 11.25" PROFILE HEIGHT WITH INTEGRAL EMERGENCY BATTERY BACKUP	FOCAL POINT	ASM1S-BW-12-500LF-35K-1C-UNV-L1-J96BK-BKCD-2EM-[FINISH]-8FT0IN	277 V	1	44 W	LED / 3500K / 80CRI	44 VA	4,000	0-10V TO 1%	TBD	SUSPENDED CEILING	13'-0" BOF	
R1	2X4 LED GRID CEILING RECESSED TROFFER, GLARE-FREE AMBIENT INDIRECT LIGHTING OPTIC WITH SLIM RECESSED PROFILE	LITHONIA	STAK-2X4-6000LM-80CRI-35K-COL-MIN10-ZT-MVOLT	277 V	1	50 W	LED / 3500K / 80CRI	50 VA	6,359	0-10V TO 10%	WHITE	RECESSED CEILING	1.9" RFD	
R1EM	2X4 LED GRID CEILING RECESSED TROFFER, GLARE-FREE AMBIENT INDIRECT LIGHTING OPTIC WITH SLIM RECESSED PROFILE AND INTEGRAL EMERGENCY BATTERY	LITHONIA	STAK-2X4-6000LM-80CRI-35K-COL-MIN10-ZT-MVOLT-E10WLCP	277 V	1	50 W	LED / 3500K / 80CRI	50 VA	6,359	0-10V TO 10%	WHITE	RECESSED CEILING	1.9" RFD	
R2	2X4 LED GRID CEILING RECESSED TROFFER, WET LOCATION RATED, FROSTED ACRYLIC LENS WITH MEDIUM OPTIC DISTRIBUTION AND INTEGRAL OCCUPANCY SENSOR	LITHONIA	2WRTL-G-L48-7000LM-IAW-AFL-MD-MVOLT-GZ10-35K-80CRI-NLTAIR2APIRM-WH	277 V	1	52 W	LED / 3500K / 80CRI	52 VA	6,833	0-10V TO 10%	WHITE	RECESSED CEILING	4" RFD	
R2EM	2X4 LED GRID CEILING RECESSED TROFFER, WET LOCATION RATED, FROSTED ACRYLIC LENS WITH MEDIUM OPTIC DISTRIBUTION AND INTEGRAL OCCUPANCY SENSOR WITH INTEGRAL EMERGENCY BATTERY	LITHONIA	2WRTL-G-L48-7000LM-IAW-AFL-MD-MVOLT-GZ10-35K-80CRI-IE10WLCP-NLTAIREM2APIRM-WH	277 V	1	52 W	LED / 3500K / 80CRI	52 VA	6,833	0-10V TO 10%	WHITE	RECESSED CEILING	4" RFD	
S1-4	STRUCTURE SUSPENDED 4' LONG BACK OF HOUSE LINEAR STRIP LIGHT, FLUSH SQUARE LENS, DAMP LOCATION RATED	LITHONIA	ZL1F-L48-4500LM-MDD-MVOLT-35K-80CRI-[FINISH]	277 V	1	39 W	LED / 3500K / 80CRI	39 VA	3,796	0-10V TO 10%	TBD	SUSPENDED CEILING	9'-0" BOF, U.O.N.	
S1-4EM	STRUCTURE SUSPENDED 4' LONG BACK OF HOUSE LINEAR STRIP LIGHT, FLUSH SQUARE LENS, DAMP LOCATION RATED WITH INTEGRAL EMERGENCY BATTERY, INTEGRAL TEST SWITCH	LITHONIA	ZL1F-L48-4500LM-MDD-MVOLT-35K-80CRI-E10WLCP-[FINISH]	277 V	1	39 W	LED / 3500K / 80CRI	39 VA	3,796	0-10V TO 10%	TBD	SUSPENDED CEILING	9'-0" BOF, U.O.N.	
S1-8	STRUCTURE SUSPENDED 8' LONG BACK OF HOUSE LINEAR STRIP LIGHT, FLUSH SQUARE LENS, DAMP LOCATION RATED	LITHONIA	TZL1F-L96-9000LM-MDD-MVOLT-35K-80CRI-[FINISH]	277 V	1	77 W	LED / 3500K / 80CRI	77 VA	7,387	0-10V TO 10%	TBD	SUSPENDED CEILING	13'-0" BOF	
S1-8EM	STRUCTURE SUSPENDED 8' LONG BACK OF HOUSE LINEAR STRIP LIGHT, FLUSH SQUARE LENS, DAMP LOCATION RATED WITH INTEGRAL EMERGENCY BATTERY, REMOTE TEST SWITCH	LITHONIA	TZL1F-L96-9000LM-MDD-MVOLT-35K-80CRI-E10WLCP-[FINISH]	277 V	1	77 W	LED / 3500K / 80CRI	77 VA	7,387	0-10V TO 10%	TBD	SUSPENDED CEILING	13'-0" BOF	
S2-4	STRUCTURE SUSPENDED 4' LONG BACK OF HOUSE LINEAR VAPOR TIGHT STRIP LIGHT, WIDE BEAM DISTRIBUTION	LITHONIA	VAP-6000LM-PCL-WD-MVOLT-GZ10-35K-80CRI	277 V	1	49 W	LED / 3500K / 80CRI	49 VA	6,100	0-10V TO 10%	WHITE	SUSPENDED CEILING	13'-0" BOF	
S2-4EM	STRUCTURE SUSPENDED 4' LONG BACK OF HOUSE LINEAR VAPOR TIGHT STRIP LIGHT, WIDE BEAM DISTRIBUTION WITH EMERGENCY BATTERY BACK UP	LITHONIA	VAP-6000LM-PCL-WD-MVOLT-GZ10-35K-80CRI-E15WCP	277 V	1	49 W	LED / 3500K / 80CRI	49 VA	6,100	0-10V TO 10%	WHITE	SUSPENDED CEILING	13'-0" BOF	
UC1-3	UNDERCABINET SURFACE MOUNTED 3'-0" LONG LINEAR TAPE LIGHT FIXTURE, .75" WIDE, .81" TALL WITH FROSTED LENS CHANNEL, 200LM/FT	KELVIX	TAPE: UNI3-WL-I-200-35K-24V-NA; CHANNEL: CH-3.5FT-FRS-SF-EC	277 V	1	5 W	LED / 3500K / 80CRI	5 VA	600	SWITCHING	ANODIZED MATTE	SURFACE UNDERCABINET	.81" OFH	
UC1-4.10	UNDERCABINET SURFACE MOUNTED 4'-10" LONG LINEAR TAPE LIGHT FIXTURE, .75" WIDE, .81" TALL WITH FROSTED LENS CHANNEL, 200LM/FT	KELVIX	TAPE: UNI3-WL-I-200-35K-24V-NA; CHANNEL: CH-4.8FT-FRS-SF-EC	277 V	1	9 W	LED / 3500K / 80CRI	9 VA	960	SWITCHING	ANODIZED MATTE	SURFACE UNDERCABINET	.81" OFH	
UC1-5.5	UNDERCABINET SURFACE MOUNTED 5'-6" LONG LINEAR TAPE LIGHT FIXTURE, .75" WIDE, .81" TALL WITH FROSTED LENS CHANNEL, 200LM/FT	KELVIX	TAPE: UNI3-WL-I-200-35K-24V-NA; CHANNEL: CH-5.5FT-FRS-SF-EC	277 V	1	10 W	LED / 3500K / 80CRI	10 VA	1,100	SWITCHING	ANODIZED MATTE	SURFACE UNDERCABINET	.81" OFH	
UC1-DRV	REMOTE POWER SUPPLY FOR LIGHT FIXTURE TYPE 'UC1', 36W	KELVIX	ULV36	277 V	1	36 W	LED / 3500K / 80CRI	36 VA	--	SWITCHING	BLACK	SURFACE	5.9"x2.5"x1.4"	1
W1-2	WALL SURFACE MOUNTED, 2'-0" LONG CYLINDRICAL LED VANITY SCONCE, DAMP LOCATION RATED	PRUDENTIAL	PRU1-STD-LED35-SO-2-YBK-SAL-NU-SC-UNV-WRM9-X3-YBK-DM01	277 V	1	14 W	LED / 3500K / 80CRI	14 VA	1,200	0-10V TO 1%	MATTE BLACK	WALL SURFACE	7'-0" BOF	2
W1-10	WALL SURFACE MOUNTED, 10'-0" LONG CYLINDRICAL LED VANITY SCONCE, DAMP LOCATION RATED	PRUDENTIAL	PRU1-STD-LED35-SO-10-YBK-SAL-NU-SC-UNV-WRM9-X3-YBK-DM01	277 V	1	70 W	LED / 3500K / 80CRI	70 VA	6,000	0-10V TO 1%	MATTE BLACK	WALL SURFACE	8'-0" BOF	2
W2-12	WALL SURFACE MOUNTED, DIRECT/INDIRECT LED LINEAR, 12'-0" LONG, 500LM/FT UP, 400LM/FT DOWN, 7.6W/FT, 1/2" REGRESS LENS, ASYMMETRIC DISTRIBUTION AND 2" OFFSET FROM THE WALL	PRUDENTIAL	BPRO2-LIN-REG.5-LED35-LO-R12-[FINISH]-PFL-SACW-SC-UNV-WS2-DM01	277 V	1	91 W	LED / 3500K / 80CRI	91 VA	10,800	0-10V TO 1%	TBD	WALL SURFACE	8'-0" BOF	
W2-15	WALL SURFACE MOUNTED, DIRECT/INDIRECT LED LINEAR, 15'-0" LONG, 500LM/FT UP, 400LM/FT DOWN, 7.6W/FT, 1/2" REGRESS LENS, ASYMMETRIC DISTRIBUTION AND 2" OFFSET FROM THE WALL	PRUDENTIAL	BPRO2-LIN-REG.5-LED35-LO-R15-[FINISH]-PFL-SACW-SC-UNV-WS2-DM01	277 V	1	114 W	LED / 3500K / 80CRI	114 VA	10,800	0-10V TO 1%	TBD	WALL SURFACE	8'-0" BOF	
X1	WALL SURFACE MOUNTED LED EDGELIT EXIT SIGN, FLAT MOUNTED	LITHONIA	EDG-1-G-GMR-EL	277 V	1	3 W	LED / GREEN	3 VA	--	--	BRUSHED ALUMINUM	WALL SURFACE	8'-0" BOF, U.O.N.	
X2	CEILING RECESSED LED EDGELIT EXIT SIGN, TOP MOUNTED	LITHONIA	EDGR-1-G-GMR-EL	277 V	1	3 W	LED / GREEN	3 VA	--	--	BRUSHED ALUMINUM	RECESSED CEILING	2-13/16" RFD	
EA1	25'-0" TALL EXTERIOR LED AREA POLE LIGHT, SINGLE HEAD TYPE III, INTEGRAL OCCUPANCY SENSOR AND INTEGRAL PHOTOCELL, EXTERNAL GLARE SHIELD	LITHONIA	DSX0 LED-P2-27K-80CRI-T3M-MVOLT-RPA-NLTAIR2 PIRNHN-EGSR-DBLXD-DLL127F 1.5 JU	277 V	1	45 W	LED / 2700K / 80 CRI	45 VA	5,930	0-10V TO 10%	BLACK	AREA POLE	25'-0" OFH	
EA2	20'-0" TALL EXTERIOR LED AREA POLE LIGHT, DOUBLE HEAD 180 DEGREE TYPE V, INTEGRAL OCCUPANCY SENSOR AND INTEGRAL PHOTOCELL	LITHONIA	DSX0 LED-P2-27K-80CRI-T5M-MVOLT-RPA-NLTAIR2 PIRNHN-DBLXD-DLL127F 1.5 JU	277 V	2	45 W	LED / 2700K / 80 CRI	90 VA	12,384	0-10V TO 10%	BLACK	AREA POLE	20'-0" OFH	
EA3	25'-0" TALL EXTERIOR LED AREA POLE LIGHT, SINGLE HEAD TYPE III BACKLIGHT CONTROL, INTEGRAL OCCUPANCY SENSOR AND INTEGRAL PHOTOCELL	LITHONIA	DSX0 LED-P2-27K-80CRI-BLC3-MVOLT-RPA-NLTAIR2 PIRNHN-DBLXD-DLL127F 1.5 JU	277 V	1	45 W	LED / 2700K / 80 CRI	45 VA	4,313	0-10V TO 10%	BLACK	AREA POLE	25'-0" OFH	
EA4	20'-0" TALL EXTERIOR LED AREA POLE LIGHT, DOUBLE HEAD SIDE-BY-SIDE ORIENTATION TYPE IV BACKLIGHT CONTROL, INTEGRAL OCCUPANCY SENSOR AND INTEGRAL PHOTOCELL, HOUSE SIDE SHIELD AND EXTERNAL GLARE SHIELD	LITHONIA	DSX2 LED-P8-27K-80CRI-BLC4-MVOLT-RPA-NLTAIR2 PIRNHN-EGSR-DBLXD-DLL127F 1.5 JU	277 V	2	462 W	LED / 2700K / 80 CRI	924 VA	81,186	0-10V TO 10%	BLACK	AREA POLE	20'-0" OFH	
EA5	20'-0" TALL EXTERIOR LED AREA POLE LIGHT, QUAD HEAD TYPE V, INTEGRAL OCCUPANCY SENSOR AND INTEGRAL PHOTOCELL, HOUSE SIDE SHIELD AND EXTERNAL GLARE SHIELD	LITHONIA	DSX2 LED-P6-27K-80CRI-T5W-MVOLT-RPA-NLTAIR2 PIRNHN-EGSR-DBLXD-DLL127F 1.5 JU	277 V	4	342 W	LED / 2700K / 80 CRI	1368 VA	182,840	0-10V TO 10%	BLACK	AREA POLE	20'-0" OFH	5
EA6	20'-0" TALL EXTERIOR LED AREA POLE LIGHT, SINGLE HEAD TYPE IV FORWARD THROW, INTEGRAL OCCUPANCY SENSOR AND INTEGRAL PHOTOCELL, HOUSE SIDE SHIELD AND EXTERNAL GLARE SHIELD	LITHONIA	DSX2 LED-P6-27K-80CRI-TFTM-MVOLT-RPA-NLTAIR2 PIRNHN-EGSR-DBLXD-DLL127F 1.5 JU	277 V	1	342 W	LED / 2700K / 80 CRI	342 VA	44,021	0-10V TO 10%	BLACK	AREA POLE	20'-0" OFH	6
ED1	EXTERIOR CEILING RECESSED, 4" FIXED RECESSED SQUARE LED DOWNLIGHT, FLUSH LENS, WIDE BEAM DISTRIBUTION WITH STANDARD 1/2" FLANGE AND CLEAR SEMI SPECULAR REFLECTOR, WET LOCATION RATED	LITHONIA	LDN4SQ-27/10-LS4-AR-LSS-TRW-MVOLT-GZ10	277 V	1	11 W	LED / 2700K / 80 CRI	11 VA	863	0-10V TO 10%	WHITE, CLEAR/SEMI-SPECULAR	RECESSED CEILING	0'-3 15/16" RFD	
ED1EM	EXTERIOR CEILING RECESSED, 4" FIXED RECESSED SQUARE LED DOWNLIGHT, FLUSH LENS, WIDE BEAM DISTRIBUTION WITH STANDARD 1/2" FLANGE AND CLEAR SEMI SPECULAR REFLECTOR, WET LOCATION RATED WITH INTEGRAL EMERGENCY BATTERY BACKUP	LITHONIA	LDN4SQ-27/10-LS4-AR-LSS-TRW-MVOLT-GZ10-E10WCP	277 V	1	11 W	LED / 2700K / 80 CRI	11 VA	863	0-10V TO 10%	WHITE, CLEAR/SEMI-SPECULAR	RECESSED CEILING	0'-3 15/16" RFD	
EF1	EXTERIOR LED FLOODLIGHT MOUNTED TO ROUND AREA POLE, WIDE FLOOD DISTRIBUTION	LITHONIA	DSXF2LED-P4-30K-70CRI-WFL-MVOLT-[MOUNT]-DBLXD	277 V	1	145 W	LED / 3000K / 70 CRI	145 VA	17,104	SWITCHING	BLACK	TENON POLE	18'-0" BOF, U.O.N.	
EL1	EXTERIOR 4'-0" LONG LED STAKE MOUNTED LINEAR FLOOD LIGHT WITH ASYMMETRIC WALL WASH OPTIC AND ADJUSTABLE KNUCKLE ROTATION, INTEGRAL DRIVER	HYDREL	4750L-4FT-500LMF-27K-MVOLT-WWD-KM-JB4750L-INJB-ZT-BL	277 V	1	20 W	LED / 2700K / 80 CRI	20 VA	2,000	0-10V TO 10%	BLACK	GROUND, STAKE	0'-9.24" OFH	
EP1	14'-0" TALL PEDESTRIAN POLE, SYMMETRIC TYPE V DISTRIBUTION, INTEGRAL NETWORKED ANTENNA	LITHONIA	RADPT LED-P3-27K-SYM-MVOLT-NLTAIR2-DBLXD	277 V	1	54 W	LED / 2700K / 90 CRI	54 VA	6,741	0-10V TO 10%	BLACK	PEDESTRIAN POLE	14'-0" OFH	
EW2EM	EXTERIOR LED WALL MOUNTED SCONCE, VISUAL COMFORT FORWARD THROW OPTICS, HIGH OUTPUT, INTEGRAL EMERGENCY BATTERY BACKUP	LITHONIA	WDGE1-LED-P1-27K-90CRI-VF-MVOLT-E4WH-DBLXD	277 V	1	10 W	LED / 2700K / 90 CRI	10 VA	1,122	SWITCHING	BLACK	WALL SURFACE	10'-0" BOF	
EW3	EXTERIOR LED WALL MOUNTED SCONCE, VISUAL COMFORT FORWARD THROW OPTICS, HIGH OUTPUT	LITHONIA	WDGE1-LED-P2-27K-90CRI-VF-MVOLT-DBLXD	277 V	1	15 W	LED / 2700K / 90 CRI	15 VA	1,806	SWITCHING	BLACK	WALL SURFACE	7'-4" BOF	
EW3EM	EXTERIOR LED WALL MOUNTED SCONCE, VISUAL COMFORT FORWARD THROW OPTICS, HIGH OUTPUT, INTEGRAL EMERGENCY BATTERY BACKUP	LITHONIA	WDGE1-LED-P2-27K-90CRI-VF-MVOLT-E4WH-DBLXD	277 V	1	15 W	LED / 2700K / 90 CRI	15 VA	1,806	SWITCHING	BLACK	WALL SURFACE	7'-4" BOF	
EW4	EXTERIOR LED WALL MOUNTED DECORATIVE SCONCE, FLOOD OPTICS	LUMINIS	SY300-L1L10-R40-277-BKT-K27	277 V	1	13 W	LED / 2700K / 80 CRI	13 VA	924	SWITCHING	BLACK	WALL SURFACE	7'-4" BOF	
EW4EM	EXTERIOR LED WALL MOUNTED DECORATIVE SCONCE, FLOOD OPTICS WITH 7W REMOTE EMERGENCY BATTERY BACKUP	LUMINIS	SY300-L1L10-R40-277-BKT-REML2-50-K27	277 V	1	13 W	LED / 2700K / 80 CRI	13 VA	924	SWITCHING	BLACK	WALL SURFACE	7'-4" BOF	3

UNDERWATER LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	VOLTAGE	LAMP QUAN.	LAMP WATTAGE	LAMP / CCT / CRI	MAX WATTAGE	LUMEN OUTPUT	DIMMING / MIN LEVEL	FIXTURE FINISH	MOUNTING	BOF/RFD/OFH	NOTES
UL1	WET NICHE UNDERWATER POOL LIGHT WITH REQUIRED CORD LENGTHS UP TO 250 FEET	PER POOL CONSULTANT	PER POOL CONSULTANT	120 V	1	50 W	--	50 VA	--	SWITCHING	TBD	POOL WET NICHE	--	U1
UL2	WET NICHE UNDERWATER POOL LIGHT WITH REQUIRED CORD LENGTHS UP TO 250 FEET	PER POOL CONSULTANT	PER POOL CONSULTANT	120 V	1	50 W	--	50 VA	--	SWITCHING	TBD	POOL WET NICHE	--	U1

LIGHTING FIXTURE GENERAL NOTES

A. BOF = BOTTOM OF FIXTURE HEIGHT, RFD = RECESSED FIXTURE DEPTH, OFH = OVERALL FIXTURE HEIGHT

B. ALL REFLECTOR LAMPS TO BE PROVIDED AS WIDE FLOOD DISTRIBUTION, UON.

C. LUMENS LISTED ARE DELIVERED LUMENS, NOT INITIAL.

D. FOR ALL SPECIFIED LUMINAIRES, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MOUNTING HARDWARE, ACCESSORIES, COMPONENTS, LEADER/JUMPER CABLES, WIRE FEED, CONNECTORS, END CAPS, REMOTE POWER SUPPLIES, AND ANY OTHER NECESSARY COMPONENT AS REQUIRED FOR INSTALLING A SECURE AND FULLY FUNCTIONAL SYSTEM.

E. THE CONTRACTOR SHALL VERIFY THE CEILING TYPE BEFORE ORDERING LIGHT FIXTURES TO ENSURE COMPATIBILITY WITH SPECIFIED FIXTURES. NOTIFY SPECIFIER OF ANY DISCREPANCIES.

F. ALL FINISH SELECTIONS SHALL BE VERIFIED BE ARCHITECT/INTERIOR DESIGNER/OWNER AS PART OF THE SUBMITTAL PROCESS. UNLESS OTHERWISE NOTED, EC SHALL ASSUME STANDARD LUMINAIRE FINISH OPTION FOR PRICING.

G. ALL MOUNTING HEIGHTS SHALL BE VERIFIED WITH ARCHITECTURAL ELEVATIONS PRIOR TO ANY ROUGH-IN.

LIGHTING FIXTURE SPECIFIC NOTES

1. REMOTE DRIVER INCLUDED WITH FIXTURE. EC SHALL LOCATE REMOTE EQUIPMENT IN NEARBY, CONCEALED, DRY, VENTILLATED, AND ACCESSIBLE LOCATION AS APPROVED BY ARCHITECT. EC SHALL REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR WIRE SIZE AND MAXIMUM RUN DISTANCES.
2. EC SHALL COORDINATE FINAL MOUNTING LOCATION WITH MIRROR PLACEMENT PRIOR TO ROUGH-IN. FIXTURE TYPE 'W1' INTENDED TO BE CENTERED OVER MIRROR AND TROUGH-STYLE SINK AS INDICATED ON PLAN.
3. REMOTE EMERGENCY BATTERY INCLUDED WITH FIXTURE. EC SHALL LOCATE REMOTE BATTERY IN NEARBY, CONCEALED, DRY, VENTILLATED, AND ACCESSIBLE LOCATION AS APPROVED BY ARCHITECT. CONFIRM FINAL MOUNTING LOCATION WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN. EC SHALL REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR WIRE SIZE AND MAXIMUM RUN DISTANCES.
4. REMOTE EQUIPMENT (DRIVER/BATTERY) LOCATED IN DECO SURFACE BOX INCLUDED WITH FIXTURE.
5. INTEGRAL POWER DEVICES ANTICIPATED MOUNTED TO LIGHT POLES. REFER TO ELECTRICAL SITE PLAN RE:#1/E0.1 FOR EXACT QUANTITIES AND LOCATIONS.

ALTERNATES AND VALUE ENGINEERED LIGHTING FIXTURES AND LIGHTING CONTROLS:

A CONTRACTOR RESPONSIBILITIES:
1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY COMPATIBILITY OF ALTERNATE OR VALUE-ENGINEERED LIGHTING ALTERNATE OR VALUE-ENGINEERED LIGHTING CONTROLS, INCLUDING DIMMING COMPATIBILITY.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY COMPATIBILITY OF ALTERNATE OR VALUE-ENGINEERED EMERGENCY LIGHTING SYSTEM WITH THE SPECIFIED, ALTERNATE OR VALUE-ENGINEERED LIGHTING CONTROLS AND FIXTURES, INCLUDING INVERTERS AND UL924 TRANSFER DEVICES REQUIRED FOR A FULLY FUNCTIONAL SYSTEM.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE A LIST OF THE FOLLOWING ITEMS FOR THE SPECIFED FIXTURE AND PROPOSED ALTERNATES OR VALUE-ENGINEERED LIGHTING FIXTURES PRIOR TO REVIEW. FAILURE TO PROVIDE REQUESTED ITEMS WILL RESULT IN ADDITIONAL WORK BILLED AT HOURLY RATES (SEE D3) :
   - CUTSHEETS, AND SUMMARIZED TABLE FIXTURE WATTAGE, DELIVERED LUMEN OUTPUT, DISTRIBUTION/BEAM ANGLE, COLOR TEMPERATURE (CCT), COLOR RENDERING INDEX (CRI)

B PRIOR APPROVAL REQUEST TO BID:
1. THE CONTRACTOR IS REQUIRED TO CALL THE ENGINEER OF RECORD / LIGHTING DESIGNER TO REQUEST APPROVAL TO SUBMIT ALTERNATE OR VALUE-ENGINEERED LIGHTING FIXTURES AND LIGHTING CONTROL SYSTEMS. AE DESIGN'S OFFICE PHONE NUMBER IS (303) 296-3034.
2. THE CONTRACTOR IS REQUIRED TO SUBMIT PRELIMINARY SUBMITTAL DRAWINGS OF ALL ALTERNATE OR VALUE-ENGINEERED LIGHTING FIXTURES AND LIGHTING CONTROLS FOR PRIOR APPROVAL FROM THE ENGINEER OF RECORD / LIGHTING DESIGNER 10-DAYS PRIOR TO BID DATE. SUBMITTALS RECEIVED LESS THAN 10-DAYS PRIOR TO BID DATE WILL NOT BE CONSIDERED.
3. ALTERNATES OR VALUE-ENGINEERED LIGHTING FIXTURES OF ANY EXTERIOR LIGHTING FIXTURES ARE REQUIRED TO INCLUDE AN EXTERIOR PHOTOMETRIC PLAN SHOWING COMPLIANCE WITH THE LOCALLY ADOPTED EXTERIOR LIGHTING ORDINANCE/CODE.
4. ALTERNATES OR VALUE-ENGINEERED LIGHTING FIXTURES FOR EMERGENCY APPLICATIONS ARE REQUIRED TO MATCH OR EXCEED THE SPECIFIED LUMEN OUTPUT AND MATCH SPECIFIED DISTRIBUTION OR COMPLY WITH LIGHT LEVELS REQUIRED FOR EGRESS ILLUMINATION AS REQUIRED PER NFPA 101. SPECIFIC CONCERNS ON THE PART OF THE ENGINEER MAY RESULT IN REQUEST FOR PHOTOMETRIC CALCULATIONS TO BE PROVIDED FOR ALTERNATE OR VAULE-ENGINEERED LIGHTING FIXTURES.

C BID PRICING BREAKOUT REQUIREMENTS:
1. THE CONTRACTOR IS REQUIRED TO PROVIDE SEPARATE LINE ITEMS IN THE BASE BID FOR LIGHTING FIXTURES AND LIGHTING CONTROLS.
2. THE CONTRACTOR IS REQUIRED TO CARRY THE "AS SPECIFIED" LIGHTING FIXTURES AND LIGHTING CONTROLS IN THEIR BASE BID. ALL ALTERNATE OR VALUE-ENGINEERED LIGHTING FIXTURES AND LIGHTING CONTROLS ARE TO BE INDICATED AS A NET CHANGE IN COST TO THE BASE BID.
3. THE CONTRACTOR IS REQUIRED TO PROVIDE UNIT PRICING FOR EACH "AS SPECIFIED" AND EACH ALTERNATE OR VALUE-ENGINEERED LIGHTING FIXTURE AND LIGHTING CONTROLS. LUMP SUM COST SAVINGS WILL NOT BE ACCEPTED.

D SUBMITTAL REVIEW AND DOCUMENT:
1. THE CONTRACTOR IS REQUIRED TO PAY FOR ANY INCURRED HOURS REQUIRED TO UPDATE THE PERMIT/CONSTRUCTION DOCUMENTS DUE TO ALTERNATE OR VALUE-ENGINEERED LIGHTING FIXTURES AND CONTROLS BY THE ENGINEER OF RECORD / LIGHTING DESIGNER. HOURLY RATE SHALL BE BILLED AT $185.00/HR.
2. THE CONTRACTOR IS REQUIRED TO PAY FOR ANY INCURRED HOURS TO UPDATE THE ENERGY COMPLIANCE DOCUMENTATION BY THE ENGINEER OF RECORD / LIGHTING DESIGNER. HOURLY RATE SHALL BE BILLED AT $185.00/HR.
3. THE CONTRACTOR IS REQUIRED TO PAY FOR THE ADDITIONAL HOURS REQUIRED OF THE ENGINEER OF RECORD / LIGHTING DESIGNER TO REVIEW ALTERNATE OR VALUE-ENGINEERED LIGHTING FIXTURES AND CONTROLS. HOURLY RATE SHALL BE BILLED AT $185.00/HR.

UNDERWATER LIGHTING FIXTURE SPECIFIC NOTES

U1. POOL WET NICHE UNDERWATER LIGHT FURNISHED BY POOL CONTRACTOR, INSTALLED AND WIRED BY EC.

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303.455.1366

CIVIL ENGINEER:
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115 Yellowstone Dr,
Chico, CA 95973
530.895.1422

BARKER RINKER SEACAT ARCHITECTURE

PERMIT REVIEW & BID SET ONLY
DOCUMENT PACKAGE NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

ELECTRICAL LIGHTING SCHEDULES

E8.0

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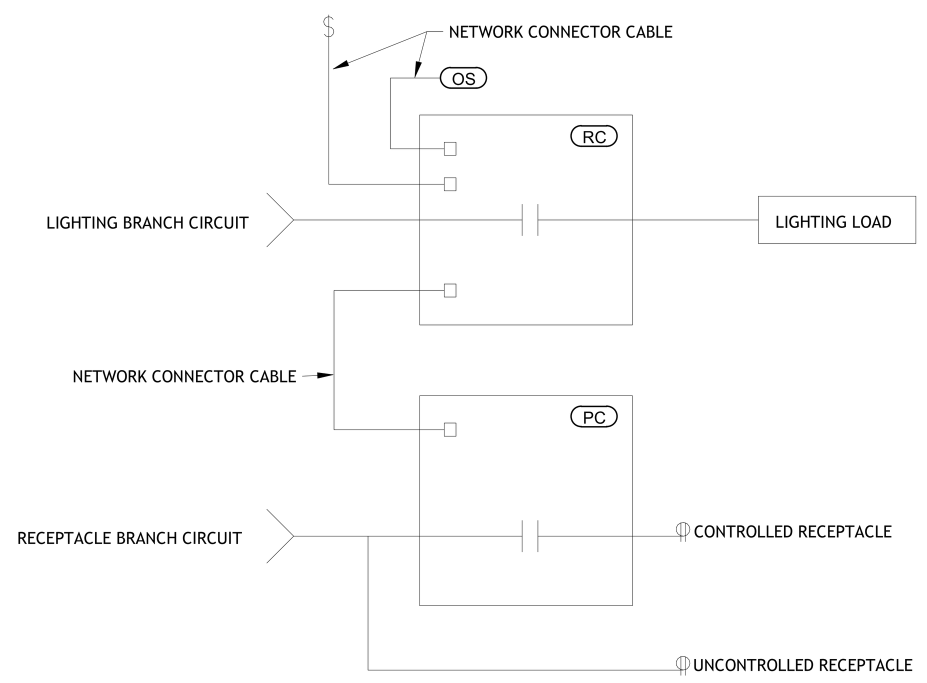
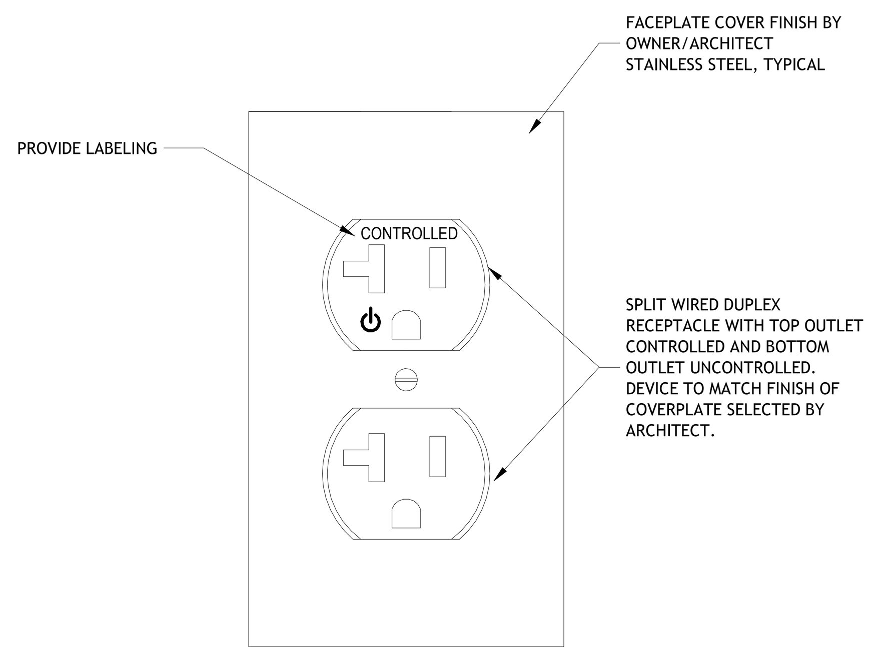
THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, IF PRINTED CORRECTLY
plot to .pdf in color for paper plots, use black & white whenever possible to save printing costs
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAGE SIZE

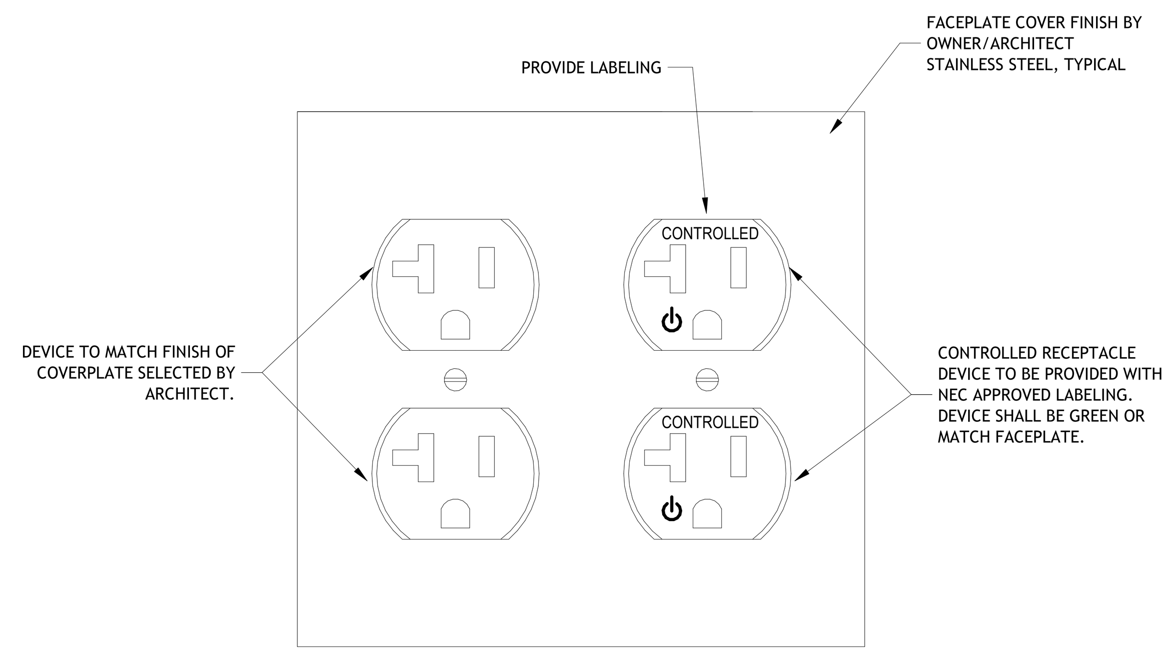
File Location: T:\Projects\2023\23030_Chico Aquatic and Recreation Facility\23030_WORKING\AUTOCAD\SHEETS\GN002 OVERALL PLAN / SAVE DATE: 3/5/2024 4:18 PM BY: jhecandido / PLOT DATE: 1/20/2023 2:45 PM BY: Jin He-Candido
1/22/2025 1:07:28 PM Autodesk Docs://Chico CA Aquatics Center/6288.00 - Chico Aquatics - Electrical Central.rvt



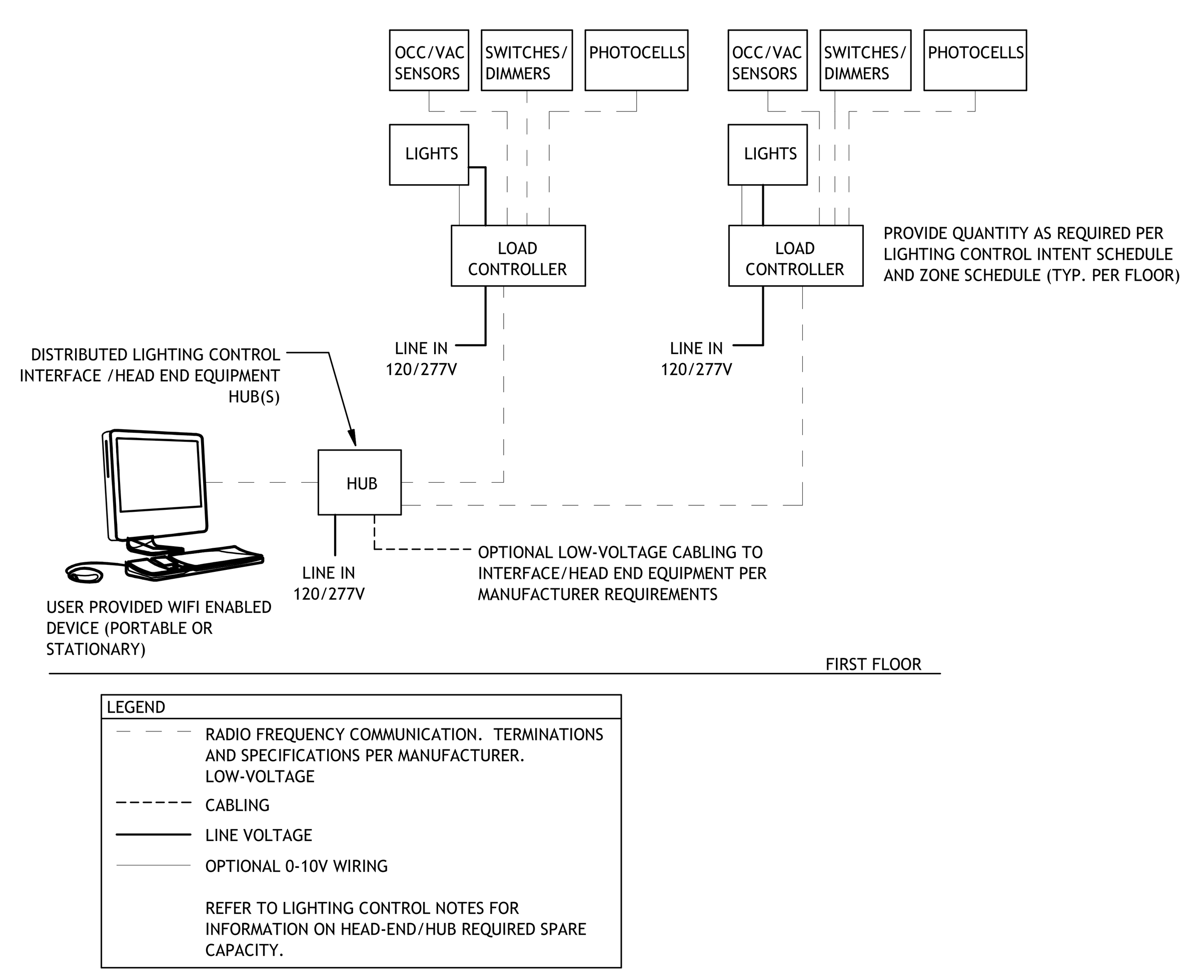
1 | ROOM CONTROLLER - RECEPTS + LIGHTS
E8.1 | NTS



2 | RECEPTACLE - CONTROLLED SPLIT WIRE STRAIGHT BLADE
E8.1 | NTS



3 | RECEPTACLE - CONTROLLED SPLIT WIRE STRAIGHT BLADE QUAD
E8.1 | NTS



4 | WIRELESS NETWORKED LIGHTING CONTROLS RISER
E8.1 | NTS

LIGHTING SEQUENCE OF OPERATION

CONTROL SEQUENCE	ON	OFF	SENSOR TYPE	TIME OUT	DIMMING	CONTROLLED RECEPTACLE	DAYLIGHT HARVESTING	TARGET ILLUMINANCE (FC)	NOTES
ET1	TIMECLOCK AUTOMATIC ON 30 MINUTES PRIOR TO SUNSET. REDUCE TO 30% OUTPUT AFTER MIDNIGHT. RETURN TO FULL OUTPUT ONCE OCCUPANCY DETECTED.	TIMECLOCK AUTOMATIC OFF 30 MINUTES AFTER SUNRISE	INTEGRAL OCCUPANCY	15 MINUTES	0-10V DIMMING	NO	NO	--	
ET2	TIMECLOCK AUTOMATIC ON 30 MINUTES PRIOR TO SUNSET	TIMECLOCK AUTOMATIC OFF 30 MINUTES AFTER SUNRISE	NONE	15 MINUTES	SWITCHING	NO	NO	--	
ET3	TIMECLOCK AUTOMATIC ON 30 MINUTES PRIOR TO BUSINESS HOURS	TIMECLOCK AUTOMATIC OFF AFTER BUSINESS HOURS	NONE	N/A	SWITCHING	NO	NO	--	
M1	MANUAL ON	MANUAL OFF	NONE	N/A	SWITCHING	NO	NO	--	MANUAL CONTROL HAS BEEN PROVIDED FOR SAFETY OF THE OCCUPANTS RELATED TO MAINTENANCE OF EQUIPMENT
O1	AUTOMATIC ON	AUTOMATIC OFF	OCCUPANCY	15 MINUTES	SWITCHING	NO	NO	--	
TO1	TIMECLOCK AUTOMATIC ON 30 MINUTES PRIOR TO BUSINESS HOURS, AUTOMATIC DIM TO 30% OUTPUT WHEN SPACE UNOCCUPIED FOR 15 MINUTES	TIMECLOCK AUTOMATIC OFF 30 MINUTES AFTER CLOSE OF BUSINESS, OVERRIDE WITH OCCUPANCY SENSOR	OCCUPANCY	15 MINUTES	SWITCHING	NO	NO	--	
TO2	TIMECLOCK AUTOMATIC ON 30 MINUTES PRIOR TO BUSINESS HOURS, AUTOMATIC DIM TO 30% OUTPUT WHEN SPACE UNOCCUPIED FOR 15 MINUTES	TIMECLOCK AUTOMATIC OFF 30 MINUTES AFTER CLOSE OF BUSINESS, OVERRIDE WITH OCCUPANCY SENSOR	INTEGRAL OCCUPANCY	15 MINUTES	SWITCHING	NO	NO	--	
V1	MANUAL ON	AUTOMATIC OFF	VACANCY	15 MINUTES	SWITCHING	NO	NO	--	
VC1	MANUAL ON FOR LIGHT FIXTURES, TIMECLOCK AUTOMATIC ON FOR CONTROLLED RECEPTACLES	AUTOMATIC OFF	VACANCY / OCCUPANCY	15 MINUTES	0-10V DIMMING FOR LIGHT FIXTURES	YES	NO	--	

LIGHTING CONTROL DEVICES

TYPE	DESCRIPTION	NOTES	DETAILS
NETWORKED COMPONENTS			
NHUB	NETWORKED LIGHTING CONTROL HUB	NLIGHT ECLYPSE SYSTEM CONTROLLER ANTICIPATED	
NWO1	NETWORKED WIRELESS CEILING MOUNTED OCCUPANCY SENSOR, DUAL TECH		
NWP1	NETWORKED WIRELESS, CEILING MOUNTED, CLOSED LOOP PHOTOCELL/ DAYLIGHT SENSOR		
NWS1	NETWORKED WIRELESS BUTTON STATION, MULTI-LEVEL, 1-ZONE		
NWS4	NETWORKED BUTTON STATION, MULTI-LEVEL 4-ZONE 3-BUTTON OVERRIDE		
STANDALONE CONTROL SYSTEMS			
WD1	WIRELESS MANUAL DIMMER		
WD2	WIRELESS MANUAL DIMMER, 2-ZONE		
WO1	CEILING MOUNTED, WIRELESS DUAL TECH OCCUPANCY SENSOR		
WOS1	WIRELESS DUAL TECH OCCUPANCY SENSOR, MULTI-LEVEL, ON/OFF SWITCH		
WP1	CEILING MOUNTED, WIRELESS PHOTOCELL		
WS1	WIRELESS MULTI-LEVEL ON/OFF SWITCH		
WS2	WIRELESS MULTI-LEVEL ON/OFF SWITCH, 2-ZONE		
WV1	CEILING MOUNTED, WIRELESS OCCUPANCY SENSOR SET TO VACANCY MODE, DUAL TECH		
WVS1	WIRELESS DUAL TECH WALLSWITCH MOUNT, OCCUPANCY SENSOR SET TO VACANCY MODE, MULTI-LEVEL, ON/OFF SWITCH		

CONTROLLED RECEPTACLE ZONE SCHEDULE

ZONE ID	ZONE DESCRIPTION	VOLTAGE	PANEL-CIRCUIT	ZONE LOAD	CONTROL SEQUENCE
zc01	LIFEGUARD OFFICE 100 CONTROLLED RECEPTACLES	120 V	LR3-37	720 VA	VC1
zc02	LIFEGUARD BREAKROOM 101 CONTROLLED RECEPTACLES	120 V	LR3-13	720 VA	VC1
zc03	AQUATICS OFFICE 102 CONTROLLED RECEPTACLES	120 V	LR3-49	900 VA	VC1
zc04	SWIM LEASED OFFICE 104 CONTROLLED RECEPTACLES	120 V	LR3-36	720 VA	VC1
zc05	ADMIN OFFICE 123 CONTROLLED RECEPTACLES	120 V	LR2-1	720 VA	VC1
zc06	TICKETING 122 CONTROLLED RECEPTACLES	120 V	LR2-3	180 VA	VC1
zc07	TICKETING 122 CONTROLLED RECEPTACLES	120 V	LR2-2	1080 VA	VC1
zc08	PARTY ROOM CONTROLLED RECEPTACLES	120 V	LR2-5	720 VA	VC1
zc09	PARTY ROOM CONTROLLED RECEPTACLES	120 V	LR2-18	720 VA	VC1
zc10	PARTY ROOM CONTROLLED RECEPTACLES	120 V	LR2-4	720 VA	VC1
zc11	PARTY ROOM CONTROLLED RECEPTACLES	120 V	LR2-3	720 VA	VC1
zc12	EXTERIOR TIME CLOCK CONTROLLED RECEPTACLE	120 V	LR3-13	180 VA	ET3
zc13	EXTERIOR TIME CLOCK CONTROLLED RECEPTACLE	120 V	LR2-8	180 VA	ET3
zc14	TICKETING 122 CONTROLLED RECEPTACLES	120 V	LR2-4	180 VA	VC1
zc15	LIFEGUARD BREAKROOM 101 CONTROLLED RECEPTACLES	120 V	LR3-37	180 VA	VC1

LIGHTING ZONE SCHEDULE

ZONE ID	ZONE DESCRIPTION	DIMMING / SWITCHING	VOLTAGE	PANEL-CIRCUIT	ZONE LOAD	CONTROL SEQUENCE
z01	CONCESSION LIGHTING	0-10V TO 10%	277 V	HM3-2	156 VA	TO1
z02	WOMENS SHOWER LIGHTING	0-10V TO 10%	277 V	HM3-2	140 VA	TO1
z03	WOMENS RESTROOM 106/110 LIGHTING	0-10V TO 1%	277 V	HM3-2	372 VA	TO1
z04	WOMENS RESTROOM 106/110 STALL LIGHTING	0-10V TO 1%	277 V	HM3-2	364 VA	TO1
z05	WOMENS RESTROOM 106/110 VANITY LIGHTING	0-10V TO 1%	277 V	HM3-2	140 VA	TO1
z06	MENS SHOWER LIGHTING	0-10V TO 10%	277 V	HM3-2	140 VA	TO1
z07	MENS RESTROOM 105/109 LIGHTING	0-10V TO 1%	277 V	HM3-2	372 VA	TO1
z08	MENS RESTROOM 105/109 STALL LIGHTING	0-10V TO 1%	277 V	HM3-2	410 VA	TO1
z09	MENS RESTROOM 105/109 VANITY LIGHTING	0-10V TO 1%	277 V	HM3-2	140 VA	TO1
z10	EXTERIOR PEDESTRIAN POLES	0-10V TO 10%	277 V	HL2-8	216 VA	ET2
z11	EXTERIOR DRIVE AISLE POLES	0-10V TO 10%	277 V	HL2-8	90 VA	ET1
z12	EXTERIOR PARKING LOT POLES	0-10V TO 10%	277 V	HL2-12	540 VA	ET1
z12.1	EXTERIOR PARKING LOT POLES	0-10V TO 10%	277 V	HL1-1	90 VA	ET1
z13	EXTERIOR POOL DECK POLES	0-10V TO 10%	277 V	HL2-6	2772 VA	ET1
z13.1	EXTERIOR POOL DECK POLES	0-10V TO 10%	277 V	HL2-4	2736 VA	ET1
z13.2	EXTERIOR POOL DECK POLES	0-10V TO 10%	277 V	HL2-8	2052 VA	ET1
z13.3	EXTERIOR POOL DECK POLES	0-10V TO 10%	277 V	HL2-2	2736 VA	ET1
z14	EXTERIOR POOL DECK FLOOD LIGHTS	SWITCHING	277 V	HL2-6	435 VA	ET2
z14.1	EXTERIOR POOL DECK FLOOD LIGHTS	SWITCHING	277 V	HL2-10	580 VA	ET2
z14.2	EXTERIOR POOL DECK FLOOD LIGHTS	SWITCHING	277 V	HL2-4	290 VA	ET2
z15	EXTERIOR DOWNLIGHTS - BATHHOUSE	0-10V TO 10%	277 V	HM3-4	66 VA	ET2
z16	LAP POOL B - UNDERWATER POOL NICHE LIGHTS	SWITCHING	120 V	LR3-6	200 VA	ET2
z17	LAP POOL B - UNDERWATER POOL NICHE LIGHTS	SWITCHING	120 V	LR3-6	200 VA	ET2
z18	LAP POOL B - UNDERWATER POOL NICHE LIGHTS	SWITCHING	120 V	LR3-6	50 VA	ET2
z19	LAP POOL A - UNDERWATER POOL NICHE LIGHTS	SWITCHING	120 V	LR3-11	150 VA	ET2
z20	LAP POOL A - UNDERWATER POOL NICHE LIGHTS	SWITCHING	120 V	LR3-11	150 VA	ET2
z21	LAP POOL A - UNDERWATER POOL NICHE LIGHTS	SWITCHING	120 V	LR3-11	200 VA	ET2
z22	LAP POOL A - UNDERWATER POOL NICHE LIGHTS	SWITCHING	120 V	LR3-11	200 VA	ET2
z23	LAP POOL A - UNDERWATER POOL NICHE LIGHTS	SWITCHING	120 V	LR3-43	150 VA	ET2
z24	LAP POOL A - UNDERWATER POOL NICHE LIGHTS	SWITCHING	120 V	LR3-43	100 VA	ET2
z25	LAP POOL A - UNDERWATER POOL NICHE LIGHTS	SWITCHING	120 V	LR3-43	150 VA	ET2
z26	LAP POOL A - UNDERWATER POOL NICHE LIGHTS	SWITCHING	120 V	LR3-43	200 VA	ET2
z27	LAP POOL A - UNDERWATER POOL NICHE LIGHTS	SWITCHING	120 V	LR3-43	200 VA	ET2
z28	LAP POOL A - UNDERWATER POOL NICHE LIGHTS	SWITCHING	120 V	LR3-43	200 VA	ET2
z29	LAP POOL A - UNDERWATER POOL NICHE LIGHTS	SWITCHING	120 V	LR3-11	150 VA	ET2
z30	LAP POOL A - UNDERWATER POOL NICHE LIGHTS	SWITCHING	120 V	LR3-11	100 VA	ET2
z31	EXTERIOR WALL MOUNTED LIGHTS - BATHHOUSE	SWITCHING	277 V	HM3-4	161 VA	ET2
z32	EXTERIOR WALL MOUNTED LIGHTS - FACILITIES	SWITCHING	277 V	HL2-1	131 VA	ET2
z33	EXTERIOR WALL MOUNTED LIGHTS - CHANGING STALLS	SWITCHING	277 V	HL2-1	52 VA	ET2
z34	EXTERIOR WALL MOUNTED LIGHTS - POOL MECHANICAL BUILDING	SWITCHING	277 V	HL1-2	40 VA	ET2
z35	EXTERIOR SCREEN WALL NORTH	0-10V TO 10%	277 V	HM3-4	59 VA	ET2
z36	EXTERIOR SCREEN WALL SOUTH	0-10V TO 10%	277 V	HM3-4	59 VA	ET2

LIGHTING CONTROL NOTES

GENERAL CONTROL NOTES

G1	THE LIGHTING CONTROL SYSTEM CONSISTS OF THE FOLLOWING: a. WIRELESS STAND-ALONE CONTROLS b. NETWORKED WIRELESS DISTRIBUTED LIGHTING CONTROLS
G2	ALTERNATE MANUFACTURER'S WILL BE REVIEWED ACCORDING TO THE NOTES PROVIDED IN THE LIGHTING FIXTURE SCHEDULE.
G3	ALL WIRING DIAGRAMS WITHIN THESE DRAWINGS ARE PROVIDED TO COMMUNICATE THE DESIGN INTENT. SYSTEM SHALL BE WIRED ACCORDING TO THE APPROVED SHOP DRAWINGS.
G4	ALL STRUCTURED CABLE WIRING SHOWN ON RISER DIAGRAMS IS INTENDED TO BE BY CONTROL MANUFACTURER APPROVED STANDARD STRUCTURED CABLING, UNLESS OTHERWISE NOTED. EC SHALL PROVIDE ALL CABLING WITHIN THE LIGHTING CONTROL SYSTEM, CABLING BETWEEN THE NETWORKED HEAD-END AND THE BUILDINGS COMMUNICATION NETWORK SHALL BE PROVIDED BY THE LOW VOLTAGE CONTRACTOR/OWNER.
G5	ALL MANUALLY DIMMED LIGHT LOADS SHALL BE CAPABLE OF DIMMING LIGHTS TO OFF SETTING. DIMMING COMPATIBILITY BETWEEN THE CONTROLS AND LIGHT FIXTURES SHALL BE COORDINATED BY THE EC TO ENSURE THAT LIGHTING IS ABLE TO DIM TO LEVEL NOTED ON LIGHTING FIXTURE SCHEDULE.
G6	LIGHTING CONTROL SYSTEM SHALL INCLUDE A MINIMUM OF (4) HOURS OF MANUFACTURER'S REPRESENTATIVE TIME ON SITE FOR SYSTEM CHECK-OUT AND OWNER TRAINING. ELECTRICAL CONTRACTOR SHALL VIDEO RECORD TRAINING SESSION AND PROVIDE COPY OF VIDEO TO OWNER AS PART OF PROJECT COMPLETION SUBMITTALS.
G7	ALL DIGITAL SWITCHES FOR OVERRIDE CONTROL OF LIGHTING CONTROL SYSTEM(S) SHALL HAVE A MAXIMUM SETTING OF 2 HOURS PER CEC AND TITLE 24 REQUIREMENTS.
G8	FINAL OCCUPANCY AND DAYLIGHT SENSOR LOCATION SHALL BE PROVIDED BY MANUFACTURER AND LOCATED PER APPROVED SHOP DRAWINGS AND DEVICE REQUIREMENTS. LOCATIONS INDICATED IN THESE DRAWINGS SHALL BE REVIEWED AND ALTERED AS NECESSARY FOR CORRECT OPERATION BY MANUFACTURER. IF OPERATIONS OF SENSORS DOES NOT MEET THE INTENT OUTLINED IN THESE DOCUMENTS THE MANUFACTURER REPRESENTATIVE SHALL PROVIDE FIELD RECTIFICATION SERVICES AS NECESSARY IN ORDER TO RECONFIGURE SYSTEM TO MEET OUTINED INTENT.
G9	OCCUPANCY SENSORS SHALL BE COORDINATED SUCH THAT THE MOUNTING IS NOT WITHIN 6' OF AIR RETURN SYSTEMS.
G10	PHOTOCELL SENSORS SHALL BE COORDINATED SUCH THAT THE DEVICE(S) ARE NOT WITHIN PROXIMATY TO INDIRECT LIGHTING OR WHERE SUBJECT TO VEILING REFLECTIONS FROM GLASS OR WATER SURFACES.
G11	WHERE APPLICABLE, WALLSTATIONS WITH MORE THAN ONE GANG SHALL BE CONGREGATED TOGETHER UNDER A SINGLE FACEPLATE, UON.

WIRELESS/STANDALONE LIGHTING CONTROL GENERAL NOTES

S1	APPROVED STANDALONE LIGHTING CONTROLS TO BE PROVIDED BY ONE OF THE FOLLOWING PRE-APPROVED MANUFACTURERS: a. nLIGHT/SENSORSWITCH b. LEVITON c. LUTRON

NETWORKED WIRELESS DISTRIBUTED LIGHTING CONTROLS

N1	APPROVED DISTRIBUTED NETWORK BASED LIGHTING CONTROLS TO BE PROVIDED BY ONE OF THE FOLLOWING PRE-APPROVED MANUFACTURERS: a. nLIGHT b. CRESTRON c. LUTRON
N2	REFER TO ELECTRICAL LIGHTING LAYOUTS FOR LAYOUT OF DEVICES CONNECTED TO DISTRIBUTED LIGHTING CONTROL SYSTEM. DISTRIBUTED COMPONENTS ARE INDICATED IN THE "LIGHTING CONTROL DEVICE" SCHEDULE, THESE COMPONENTS START WITH THE DESIGNATION 'NW'.
N3	DISTRIBUTED LIGHTING CONTROL HEAD-ENDS/HUBS SHALL BE PROVIDED BASED ON THE QUANTITY OF ZONES INDICATED IN THE 'NETWORKED LIGHTING CONTROL ZONE SCHEDULE'. COMPONENTS PROVIDED SHALL BE CAPABLE OF PROVIDING FUNCTIONALITY IN ACCORDANCE WITH 'SEQUENCE OF OPERATIONS' SCHEDULE.
N4	ALL COMPONENTS OF NETWORKED DISTRIBUTED LIGHTING CONTROL SYSTEM REQUIRING LINE VOLTAGE CONNECTIONS SHALL BE FED FROM LOCAL UNSWITCHED LIGHTING CIRCUIT.
N5	ALL REMOTE LOAD CONTROLLERS SUCH AS POWER PACKS AND RELAY DEVICES SHALL BE LOCATED IN A READILY ACCESSIBLE LOCATION.
N6	POWER REQUIREMENTS SHALL BE CONFIRMED WITH APPROVED SUBMITTAL AND CONNECTED TO NEAREST UNSWITCHED LIGHTING CIRCUIT.
N7	DISTRIBUTED LIGHTING CONTROL HEAD-END/HUBS SHALL BE EQUIPPED WITH CAPABILITY FOR PROGRAMMATIC AND ZONING SOFTWARE EXPANSION FOR A MINIMUM OF 25% ADDITIONAL SPARE CAPACITY.

LIGHTING CONTROLS NAMING CONVENTION

SYSTEM TYPE:
- **N** = NETWORKED
- **R** = ROOM CONTROLLER
- **W** = WIRELESS
- - THE ABSENCE OF LETTERS UNDER 'SYSTEM TYPE' INDICATES A WIRED STANDALONE SYSTEM
- - THE ABSENCE OF 'W' MEANS THE SYSTEM IS WIRED

SENSOR TYPE:
- **O** = OCCUPANCY
- **V** = VACANCY
- **P** = PHOTOCELL

DEVICES:
- **D** = DIMMER
- **S** = SWITCH
- **H** = HUB
- **U** = UNIQUE DEVICE TYPE

NUMBERING:
- **1,2,3...** = QUANTITY AS REQUIRED FOR DIFFERENT HARDWARE, DEVICE CHARACTERISTICS, OR MOUNTING CONDITIONS.

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BARKER RINKER SEACAT ARCHITECTURE

PERMIT REVIEW & BID SET ONLY
DOCUMENT PACKAGE NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

ELECTRICAL LIGHTING CONTROLS SCHEDULES

E8.1

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STATE OF CALIFORNIA

Electrical Power Distribution

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
This document is used to demonstrate compliance with mandatory requirements in 130.5, for electrical systems in newly constructed nonresidential and hotel/motel occupancies and 160.6 and 160.9 for electrical systems in newly constructed multifamily occupancies. Additions and alterations to electrical service systems in nonresidential and hotel/motel occupancies will also use this document to demonstrate compliance per 141.0(a) or 141.0(b)2P for alterations. For multifamily addition or alterations compliance will be documented per 180.1(a) or 180.2 (b)4Bvii	

Project Name:	6288.00 - Chico Aquatics Center	**Report Page:**	**(Page 1 of 7)**
Project Address:		**Date Prepared:**	2025-01-16T18:27:02-05:00

A. GENERAL INFORMATION

01	Project Location (city)	Chico	02	Climate Zone	11
			03	Occupancy Types Within Project:	All Other Occupancies

B. PROJECT SCOPE

This table includes electrical systems that are within the scope of the permit application.

01	02	03	04	05	06	07
Electrical Service Designation/ Description	Scope of Work[1]	Rating[2] (kVA)	Utility Provided Metering System Exception to 130.5(a)/ 160.6(a)[3]	System subject to CA Elec Code Article 517 Exception to 130.5(a)and (b)	Demand Response Controls	Provides power to dwelling units/common living areas only in multifamily occupancy
Sheet E0.1, E1.0	New electrical service equipment and meter	750	☒	☐	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections 120.2/ 160.3, 130.1/ 160.5, and 130.3/ 160.5, and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required.	☐
Sheet E0.1, E1.1	New electrical service equipment and meter	750	☒	☐	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections 120.2/ 160.3, 130.1/ 160.5, and 130.3/ 160.5, and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required.	☐

[1]*FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.*

STATE OF CALIFORNIA

Electrical Power Distribution

CALIFORNIA ENERGY COMMISSION

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B. PROJECT SCOPE

This table includes electrical systems that are within the scope of the permit application.

[2] *If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.*
[3] *Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.*

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through J. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

01		02		03		04	05	06
Service Electrical Metering 130.5(a)/ 160.6(a) (See Table F)	AND	Separation for Monitoring 130.5(b)/ 160.6(b) (See Table G)	AND	Voltage Drop 130.5(c)/ 160.6(c) (See Table H)	AND	Controlled Receptacles 130.5(d)/ 160.6(d) (See Table I)	Electric Ready 160.9 (See Table J)	**Compliance Results**
	AND	Yes	AND	Yes	AND	Yes		COMPLIES with Exceptional Conditions

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

Table B indicates the project is exempt from 130.5(a) Service Electrical Metering requirements because the utility company has provided the project a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA

Electrical Power Distribution

CALIFORNIA ENERGY COMMISSION

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G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 130.5(b)/ 160.6(b). Any load types that are not included in the service do not need to be shown. For multifamily occupancies, submetered systems that provide power to dwelling units do not need to meet these separation requirements and therefore load types on those submetered systems also do not need to be shown.

01	02	03	04	05	
Load Type per Table 130.5-B[1]	Minimum Required Separation of Load per Table 130.5-B	Compliance Method[2]	Location of Requirements in Construction Documents	Field Inspector	
				Pass	Fail
Sheet E0.1, E1.0					
Charging stations for electrical vehicle	All loads in aggregate	Method 4: Complete metering system measures and reports loads by type	Sheet E0.1, E6.0, E7.4	☐	☐
HVAC systems and components	All HVAC in aggregate and each HVAC load rated at least 50 kVA	Method 4: Complete metering system measures and reports loads by type	Sheet E1.0, E6.0, E7.0	☐	☐
Lighting including exit, egress and exterior	All lighting disaggregated by floor, type or area	Method 4: Complete metering system measures and reports loads by type	Sheet E2.0, E7.2	☐	☐
Other non-HVAC loads and appliances greater than or equal to 25kVA	All loads in aggregate	Method 4: Complete metering system measures and reports loads by type	Sheet E6.0, E7.3, E7.4	☐	☐
Sheet E0.1, E1.1					
HVAC systems and components	All HVAC in aggregate and each HVAC load rated at least 50 kVA	Method 4: Complete metering system measures and reports loads by type	Sheet E1.1, E6.0, E7.0	☐	☐

STATE OF CALIFORNIA

Electrical Power Distribution

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-ELC-E**
Project Name:	6288.00 - Chico Aquatics Center	**Report Page:**	**(Page 4 of 7)**
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G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 130.5(b)/ 160.6(b). Any load types that are not included in the service do not need to be shown. For multifamily occupancies, submetered systems that provide power to dwelling units do not need to meet these separation requirements and therefore load types on those submetered systems also do not need to be shown.

01	02	03	04	05	
Load Type per Table 130.5-B[1]	Minimum Required Separation of Load per Table 130.5-B	Compliance Method[2]	Location of Requirements in Construction Documents	Field Inspector	
				Pass	Fail
Lighting including exit, egress and exterior	All lighting disaggregated by floor, type or area	Method 4: Complete metering system measures and reports loads by type	Sheet E2.1, E7.1	☐	☐
Other non-HVAC loads and appliances greater than or equal to 25kVA	All loads in aggregate	Method 4: Complete metering system measures and reports loads by type	Sheet E6.0, E7.1, E7.2	☐	☐

** NOTES: If "Other*" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.*

[1] *FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.*
[2] *Method 1: Switchboards/ motor control centers/ panelboard loads disaggregated for each load type.*
Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type.
Method 3: Branch circuits serve load types individually and provisions for adding future branch circuit monitoring.
Method 4: Complete metering system measures and reports loads by type.
See Chapter 8 of the Nonresidential Compliance Manual for more detail on Compliance Methods.

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with 130.5(c)/ 160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)2Piii/ 180.2(b)4Bviic.

01	02				03	04	05	
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method				Location of Voltage Drop Calculations[1]	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector	
							Pass	Fail
Sheet E0.1, E1.0	☒	Voltage drop less than 5%	☐	Permitted by CA Elec Code (Exception to 130.5(c))*	In construction documents	Sheet E6.0	☐	☐

STATE OF CALIFORNIA

Electrical Power Distribution

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CERTIFICATE OF COMPLIANCE			**NRCC-ELC-E**
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H. VOLTAGE DROP

Sheet E0.1, E1.1	☒	Voltage drop less than 5%	☐	Permitted by CA Elec Code (Exception to 130.5(c))*	In construction documents	Sheet E6.0	☐	☐

** NOTES: If "Permitted by CA Elec Code *" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*

[1] *FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".*

I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 130.5(d)/ 160.6(d).. Both controlled and uncontrolled receptacles must be provided in office areas, lobbies, conference rooms, kitchen areas in office spaces, copy rooms and hotel/motel guest rooms.

01	02	03	04	05	06	07	
Room name or Description	Location/ Type of Controlled Receptacles[1]	Shut-Off Controls	Demand Responsive Controls	Permanent Durable Marking Will be Used	Location of Requirements in Construction Documents	Field Inspector	
						Pass	Fail
Admin. Office 123, Ticketing 122, Swim Team Leased Office 104, Aquatics Office 102, Lifeguards 100	Split-wired receptacle	Occupancy Sensor	NA: Building does not require demand responsive lighting controls per 110.12(c)	☒	Sheet E1.0, E2.0, E8.1	☐	☐
Classroom/Party Room 119	Split-wired receptacle	Occupancy Sensor	NA: Building does not require demand responsive lighting controls per 110.12(c)	☒	Sheet E1.0, E2.0, E8.1	☐	☐
Lifeguard Breakroom 101	Split-wired receptacle	Occupancy Sensor	NA: Building does not require demand responsive lighting controls per 110.12(c)	☒	Sheet E1.0, E2.0, E8.1	☐	☐

** NOTES: If "Other*" is selected under Shut-Off Controls above, please indicate how compliance has been achieved in the space provided below.*

[1] *FOOTNOTES: Receptacles dedicated to refrigerators and water dispensers in kitchens, located a minimum of 6ft above the floor specifically for clocks, network copiers, fax machines, A/V and data equipment other than personal computers in copy rooms, circuits rated more than 20 Amps, or connected to a UPS that are intended to be in continuous use and are marked to differentiate them from other receptacles or circuits are excepted from the requirements. .*

STATE OF CALIFORNIA

Electrical Power Distribution

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-ELC-E**
Project Name:	6288.00 - Chico Aquatics Center	**Report Page:**	**(Page 6 of 7)**
		Date Prepared:	2025-01-16T18:27:02-05:00

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-ELC-E - Must be submitted for all buildings

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

STATE OF CALIFORNIA

Electrical Power Distribution

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-ELC-E**
Project Name:	6288.00 - Chico Aquatics Center	**Report Page:**	**(Page 7 of 7)**
Project Address:		**Date Prepared:**	2025-01-16T18:27:02-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: AE Design	Documentation Author Signature:
Company:	Signature Date:
Address:	CEA/ HERS Certification Identification (If applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature:
Company:	Date Signed:
Address:	License:
City/State/Zip:	Phone:

AE DESIGN
Integrated Lighting, Technology, and Electrical Solutions
1900 Wazee Street #205 | Denver, CO 80202 | 303.296.3034
aedesign-inc.com Project #: 6288

CONFLUENCE

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Chicago, IL 60601
312.663.5494
www.thinkconfluence.com

AQUATIC DESIGN CONSULTANT:
WATER TECHNOLOGY INC.
100 Park Ave.,
Beaver Dam, WI 53916
920.887.7375

ARCHITECT:
BRS ARCHITECTURE
990 S Broadway #222,
Denver, CO 80209
303.455.1366

CIVIL ENGINEER:
ROLLS ANDERSON & ROLLS
115 Yellowstone Dr,
Chico, CA 95973
530.895.1422

BARKER RINKER SEACAT ARCHITECTURE

PERMIT REVIEW & BID SET ONLY

DOCUMENT PACKAGE NOT FOR CONSTRUCTION

Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY

CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

ELECTRICAL POWER TITLE 24 COMPLIANCE

E9.0

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1/22/2025 1:07:30 PM Autodesk Docs://Chico CA Aquatics Center/6288.00 - Chico Aquatics - Electrical Central.rvt

File Location: T:\Projects\2023\23030_Chico Aquatic and Recreation Facility\23030_WORKING\AUTOCAD\SHEETS\GN002 OVERALL PLAN / SAVE DATE: 3/5/2024 4:18 PM BY: jhecandido / PLOT DATE: 1/20/2023 2:45 PM BY: Jin He-Candido

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector	
									Pass	Fail
D1/D1EM	6" diameter fixed recessed LED downlight	No	NA	18	Mfr. Spec	28	No	504	☐	☐
L2-6/L2-6EM	6' long LED suspended linear	No	NA	63	Mfr. Spec	9	No	567	☐	☐
L3-8	8' long LED suspended linear	No	NA	74	Mfr. Spec	4	No	296	☐	☐
L3-12EM	12' long LED suspended linear	No	NA	112	Mfr. Spec	4	No	448	☐	☐
L4-8/L4-8EM	8' long LED suspended linear	No	NA	44	Mfr. Spec	12	No	528	☐	☐
R1/R1EM	2x4 LED recessed troffer	No	NA	49	Mfr. Spec	4	No	196	☐	☐
R2/R2EM	2x4 LED recessed troffer	No	NA	52	Mfr. Spec	3	No	156	☐	☐
S1-4/S1-4EM	4' LED strip light	No	NA	39	Mfr. Spec	24	No	936	☐	☐
S1-8/S1-8EM	8' LED strip light	No	NA	77	Mfr. Spec	10	No	770	☐	☐
S2-4/S2-4EM	4' LED vapor tight strip light	No	NA	49	Mfr. Spec	4	No	196	☐	☐
UC1	Undercabinet LED tapelight	No	NA	1.6	Mfr. Spec	23	No	36.8	☐	☐
W1-2	2' LED Vanity Sconce	No	NA	14	Mfr. Spec	4	No	56	☐	☐
W1-10	10' LED Vanity Sconce	No	NA	70	Mfr. Spec	4	No	280	☐	☐
W2-12	12' Direct/Indirect LED wall mounted linear	No	NA	91	Mfr. Spec	6	No	546	☐	☐
W2-15	15' Direct/Indirect LED wall mounted linear	No	NA	114	Mfr. Spec	2	No	228	☐	☐
							Total Designed Watts: CONDITIONED SPACES	5,743.8		

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)						Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)					Compliance Results
	01	02	03	04		05	06	07		08		09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)		Total Allowed (Watts)	Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)		Total Adjusted (Watts) *Includes Adjustments		05 must be >= 08 140.6 / 170.2(e)
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)				
Conditioned		5,347.45	22.4		=	5,369.85	≥ 5,743.8	505.9	=	5237.9		COMPLIES
Unconditioned					=		≥		=			
										Controls Compliance (See Table H for Details)		COMPLIES
										Rated Power Reduction Compliance (See Table Q for Details)		

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

Project Name: 6288.00 - Chico Aquatics Center	Report Page:	(Page 1 of 14)
Project Address:	Date Prepared:	2025-01-16T15:46:55-05:00

A. GENERAL INFORMATION

01	Project Location (city)	Chico	04	Total Conditioned Floor Area (ft²)	10,245
02	Climate Zone	11	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

● All Other Occupancies ● Classroom ● Gymnasium ● Office ● Support Areas

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Area Category Method	10245	N/A	0
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft²)	10245			

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Support Spaces (Mech 115, Elec 124, Elec 200, Pool Eq 201, Pool Eq Stor 202, Chem Room 203, Chem Room 204)	Electrical Mechancial Telephone Room	0.4	3,497	1,398.8	No	Yes
Locker/Restrooms (Family Changing 113-114, Adult Changing 116-117, Mens & Womens 105-110)	Restroom	0.65	3,266	2,122.9	No	Yes
Classroom / Party Room 119	Classroom, Lecture, or Training Vocational	0.6	1,131	678.6	No	Yes
Offices (Swim 104, Aquatics 102, Lifeguards 100, Ticketing 122, Admin 123)	Office (<=250 square feet)	0.65	752	488.8	Yes	Yes
Storage (Jan 103, Stor 112, Jan Stor 118, Stor 121)	Storage - MF common areas	0.45	677	304.65	No	No
Concessions 111	Kitchen/ Food Preparation	0.95	238	226.1	No	No
Lifeguard Breakroom 101	Lounge	0.55	232	127.6	Yes	Yes
		TOTALS:	9,793	5,347.45	See Tables J, or P for detail	

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field Inspector	
								Pass	Fail
Support Spaces (Mech 115, Elec 124, Elec 200, Pool Eq 201, Pool Eq Stor 202, Chem Room 203, Chem Room 204)	Electrical Mechancial Telephone Room	Auth. Personnel	Multilevel Switch	NA: Elec. equip. rm	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
Locker/Restrooms (Family Changing 113-114, Adult Changing 116-117, Mens & Womens 105-110)	Restroom	Readily Accessible	Dimmer	See Building Level	Included	NA: General Ltg < 120W	No	☐	☐
Classroom / Party Room 119	Classroom, Lecture, or Training Vocational	Annunciated	Dimmer	See Building Level	NA: General Ltg < 120W	NA: General Ltg < 120W	No	☐	☐
Offices (Swim 104, Aquatics 102, Lifeguards 100, Ticketing 122, Admin 123)	Office (<=250 square feet)	Readily Accessible	Dimmer	See Building Level	NA: General Ltg < 120W	NA: General Ltg < 120W	No	☐	☐
Storage (Jan 103, Stor 112, Jan Stor 118, Stor 121)	Storage - MF common areas	Readily Accessible	Multilevel Switch	See Building Level	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
Concessions 111	Kitchen/ Food Preparation	Readily Accessible	Multilevel Switch	See Building Level	NA: General Ltg < 120W	NA: General Ltg < 120W	No	☐	☐
Lifeguard Breakroom 101	Lounge	Readily Accessible	Dimmer	See Building Level	Included	NA: General Ltg < 120W	No	☐	☐
							13		
							Plan Sheet Showing Daylit Zones:		
							E2.0		

F. INDOOR LIGHTING FIXTURE SCHEDULE

[1]FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.

[2]Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	Field Inspector	
		Pass	Fail
Required >= 4,000W subject to multilevel	Whole Building EMCS	☐	☐

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This table includes all areas indicated in Table I or Table K as using a PAF credit described in 140.6(a)2 / 170.2(e)2B.

Conditioned Spaces

01	02									03	04	05	06	07
Area Description	PAF per 140.6(a)2 / 170.2(e)2B[1] (*Can be used in conjunction with other PAF'S)									Luminaires Controlled for PAF Credit				Additional Control Credit Allowance (Watts)
	1	2A	2B	3A*	3B*	4*	5*	6*	7*	Luminaire Name or Item Tag	Luminaire Design Watts	Number of Luminaires	Lighting Controlled (Watts)	
				Pick up to one		Pick up to one	Pick up to one[2]		Pick up to one[2]					
Support Spaces (Mech 115, Elec 124, Elec 200, Pool Eq 201, Pool Eq Stor 202, Chem Room 203, Chem Room 204)	☐	☐	☐	☒	☐	☐	☐	☐	☐	S1-4/S1-4EM	39	24	936	93.6
Support Spaces (Mech 115, Elec 124, Elec 200, Pool Eq 201, Pool Eq Stor 202, Chem Room 203, Chem Room 204)	☐	☐	☐	☒	☐	☐	☐	☐	☐	S1-8/S1-8EM	77	10	770	77
Support Spaces (Mech 115, Elec 124, Elec 200, Pool Eq 201, Pool Eq Stor 202, Chem Room 203, Chem Room 204)	☐	☐	☐	☒	☐	☐	☐	☐	☐	S2-4/S2-4EM	49	4	196	19.6
Locker/Restrooms (Family Changing 113-114, Adult Changing 116-117, Mens & Womens 105-110)	☒	☐	☐	☐	☐	☐	☐	☐	☐	L3-12EM	112	4	448	44.8
Locker/Restrooms (Family Changing 113-114, Adult Changing 116-117, Mens & Womens 105-110)	☒	☐	☐	☐	☐	☐	☐	☐	☐	L3-8	74	4	296	29.6

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

All areas indicated in Table I as using an additional allowance using the Area Category Method have been included in this table to calculate the additional allowance per Table 140.6-C /170.2-M

Conditioned Spaces

01	02	03	04	05	06	07	08	09	10
Area Description	Primary Function Area	Applicable Qualifying Lighting System from Table 140.6-C	Allowed Density (W/ft² or W/lf or W/unit)	Ltg Area, Length or ATM/Mirror (ft², lf or #)	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	Number of Luminaires	Total Design Watts
Offices (Swim 104, Aquatics 102, Lifeguards 100, Ticketing 122, Admin 123)	Office (250 square feet)	DecorativeDisplay B	0.2	752	150.4	UC1	1.6	8	12.8
Total Design Watts	Calculated Allowance (Watts):	Total Additional Allowance for this area:							
12.8	150.4	12.8							
Lifeguard Breakroom 101	Lounge	DecorativeDisplay C	0.25	232	58	UC1	1.6	6	9.6
Total Design Watts	Calculated Allowance (Watts):	Total Additional Allowance for this area:							
9.6	58	9.6							
		11							
Total Additional Allowance (Watts) CONDITIONED SPACES		22.4							

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

ELECTRICAL LIGHTING TITLE 24 COMPLIANCE

E9.1

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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	6288.00 - Chico Aquatics Center	**Report Page:**	(Page 12 of 14)
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S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This table documents clerestories, horizontal slats or light shelves meet the requirements in 140.3(d) / 170.2(e)2B if a Power Adjustment Factor was claimed on Table P. These features must be documented on the architectural plans or where appropriate within the construction documents. This PAF also must be verified in the field with an acceptance test per Table U.

01	Compliance Strategy		Clerestories
Clerestory Fenestration			
	Yes	Not Applicable	Requirement
02	☒		Installed on East, West or South facade
03	☒		Head height >=10ft above finished floor
04	☒		Glazing height >=0.10 x head height
05	☒	☐	Operable shading on clerestory is controlled separately from other shading

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-LTI-E - Must be submitted for all buildings

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
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R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

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Project Name:	6288.00 - Chico Aquatics Center	**Report Page:**	(Page 10 of 14)
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P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

Locker/Restrooms (Family Changing 113-114, Adult Changing 116-117, Mens & Womens 105-110)	☒	☐	☐	☐	☐	☐	☐	☐	☐	W1-10	70	4	280	28
Locker/Restrooms (Family Changing 113-114, Adult Changing 116-117, Mens & Womens 105-110)	☒	☐	☐	☐	☐	☐	☐	☐	☐	W2-15	114	2	228	22.8
Locker/Restrooms (Family Changing 113-114, Adult Changing 116-117, Mens & Womens 105-110)	☒	☐	☐	☐	☐	☐	☐	☐	☐	W2-12	91	6	546	54.6
Classroom / Party Room 119	☒	☐	☐	☐	☐	☐	☒	☐	☐	L4-8/L4-8EM	44	12	528	79.2
Offices (Swim 104, Aquatics 102, Lifeguards 100, Ticketing 122, Admin 123)	☒	☐	☐	☐	☐	☐	☐	☐	☐	L2-6/L2-6EM	63	6	378	37.8
Lifeguard Breakroom 101	☒	☐	☐	☐	☐	☐	☐	☐	☐	L2-6/L2-6EM	63	3	189	18.9
08										09				
☒	All spaces applying PAF 5, 6 or 7 include a daylight design meeting requirements in 140.3(d). See Table S.									Total Power Adjustment (Watts) CONDITIONED SPACES:				505.9

[1] FOOTNOTES: PAFs outlined in Table 140.6-A /170.2-L include 1) Daylight continuous dimming plus OFF; 2A) Occupant sensors in offices with one sensor per <= 125 ft^2; 2B) Occupant sensors in offices with one sensor per 126 - 250 ft^2; 3A) Institutional tuning, non-daylit areas and 3B) Institutional tuning, daylit areas; 4) Demand response; 5) Clerestory fenestration; 6) Horizontal slats; 7) Light shelves.

[2] Luminaires that qualify for PAF 5, 6, or 7 can be used in conjunction with PAF 1.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	6288.00 - Chico Aquatics Center	**Report Page:**	(Page 14 of 14)
Project Address:		**Date Prepared:**	2025-01-16T15:46:55-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: AE Design	Documentation Author Signature:
Company:	Signature Date:
Address:	CEA/ HERS Certification Identification (if applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature:
Company:	Date Signed:
Address:	License:
City/State/Zip:	Phone:

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	6288.00 - Chico Aquatics Center	**Report Page:**	(Page 13 of 14)
		Date Prepared:	2025-01-16T15:46:55-05:00

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	Locker/Restrooms (Family Changing 113-114, Adult Changing 116-117, Mens & Womens 105-110); Lifeguard Breakroom 101
NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	Support Spaces (Mech 115, Elec 124, Elec 200, Pool Eq 201, Pool Eq Stor 202, Chem Room 203, Chem Room 204); Locker/Restrooms (Family Changing 113-114, Adult Changing 116-117, Mens & Womens 105-110); Classroom / Party Room 119; Offices (Swim 104, Aquatics 102, Lifeguards 100, Ticketing 122, Admin 123); Storage (Jan 103, Stor 112, Jan Stor 118, Stor 121); Concessions 111; Lifeguard Breakroom 101
NRCA-LTI-05-A. - Must be submitted for institutional tuning power adjustment factor (PAF)	Support Spaces (Mech 115, Elec 124, Elec 200, Pool Eq 201, Pool Eq Stor 202, Chem Room 203, Chem Room 204)
NRCA-ENV-03-F. - Must be submitted for daylighting design power adjustment factors (PAF)	Classroom / Party Room 119

AE DESIGN
Integrated Lighting, Technology, and Electrical Solutions
1900 Wazee Street #205 | Denver, CO 80202 | 303.296.3034
aedesign-inc.com
Project #: 6288

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WATER TECHNOLOGY INC.
100 Park Ave.,
Beaver Dam, WI 53916
920.887.7375

ARCHITECT:
BRS ARCHITECTURE
990 S Broadway #222,
Denver, CO 80209
303.455.1366

CIVIL ENGINEER:
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530.895.1422

BARKER RINKER SEACAT ARCHITECTURE

PERMIT REVIEW & BID SET ONLY
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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

ELECTRICAL LIGHTING TITLE 24 COMPLIANCE

E9.2

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plot to .pdf in color for paper plots, use black & white whenever possible to save printing costs
THE SQUARES ABOVE ARE COLOR, WITH BLACK AND WHITE LETTERS, IF PRINTED CORRECTLY

File Location: T:\Projects\2023\23030_Chico Aquatic and Recreation Facility\23030_WORKING\AUTOCAD\SHEETS\GN002 OVERALL PLAN / SAVE DATE: 3/5/2024 4:18 PM BY: jhecandido / PLOT DATE: 1/20/2023 2:45 PM BY: Jin He-Candido
1/22/2025 1:07:30 PM Autodesk Docs://Chico CA Aquatics Center/6288.00 - Chico Aquatics - Electrical Central.rvt

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IF NOT, SCALE ACCORDINGLY.
THE SQUARES ABOVE ARE COLOR WITH BLACK AND WHITE LETTERS, ALL CLEARLY VISIBLE.
IF NOT, SET TO 'add' in color settings, set to 'white' for paper white, and 'black' for screen display.

File Location: T:\Projects\2022\23030_Chico Aquatic and Recreation Facility\23030_WORKING\AUTOCAD\SHEETS\GN002 OVERALL PLAN | SAVE DATE: 3/5/2024 4:18 PM BY: jhesterlido | PLOT DATE: 1/20/2023 2:45 PM BY: Jin He-Cieslicki
1/22/2025 1:07:30 PM Autodesk Docs://Chico CA Aquatics Center/6288.00 - Chico Aquatics - Electrical Central.rvt

STATE OF CALIFORNIA
Outdoor Lighting — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: 6288.00 - Chico Aquatics Center	**Report Page:**	(Page 11 of 11)
Project Address:	**Date Prepared:**	2025-01-17T12:01:28-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name: AE Design	Documentation Author Signature:
Company:	Signature Date:
Address:	CEA/ HERS Certification Identification (if applicable):
City/State/Zip:	Phone:

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3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature:
Company:	Date Signed:
Address:	License:
City/State/Zip:	Phone:

STATE OF CALIFORNIA
Outdoor Lighting — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: 6288.00 - Chico Aquatics Center	**Report Page:**	(Page 10 of 11)
	Date Prepared:	2025-01-17T12:01:28-05:00

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-LTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	Parking/Walkways: "EA1"; Parking/Walkways: "EA2"; Parking/Walkways: "EA3"; Pool Deck: "EA4"; Pool Deck: "EA5"; Pool Deck: "EA6"; Building Entries: "ED1/ED1EM"; Building Entries: "EW2EM"; Building Entries: "EW3/EW3EM"

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BARKER RINKER SEACAT ARCHITECTURE

PERMIT REVIEW & BID SET ONLY
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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23030
Issue	PERMIT & BID SET
Date	2025-01-24

ELECTRICAL LIGHTING TITLE 24 COMPLIANCE

E9.3

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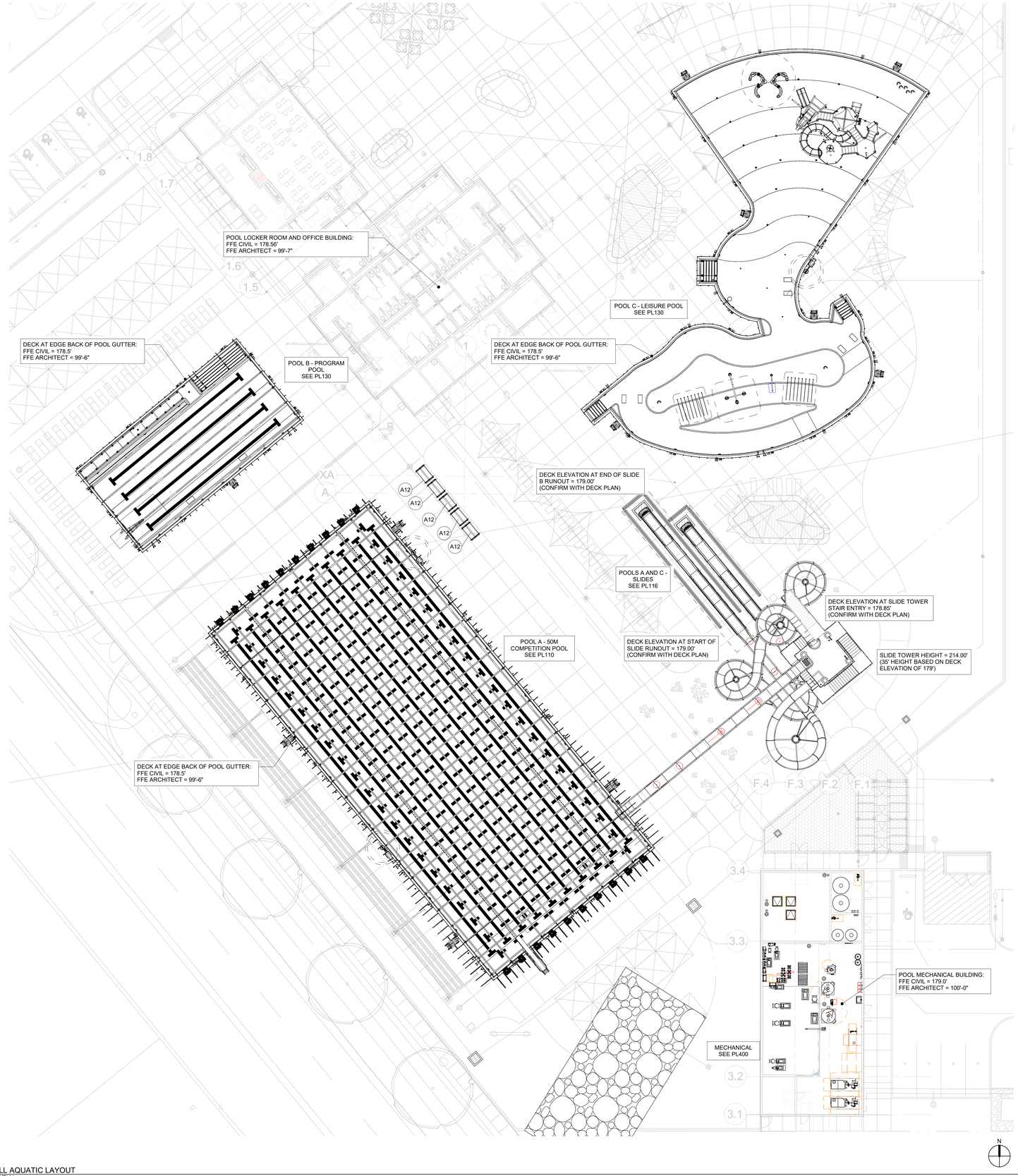

1 PL100 OVERALL AQUATIC LAYOUT PLAN VIEW
1/16" = 1'-0"

SCHEDULE - SHEET LIST

SHEET NO.	SHEET NAME
PL100	OVERALL AQUATIC PLAN
PL101	DECK CLEARANCE AND ADA ACCESS PLAN
PL102	GENERAL DETAILS AND SCHEDULES
PL110	POOL A - 50M COMPETITION POOL PLAN
PL111	POOL A - 50M COMPETITION POOL ENLARGED PLAN
PL112	POOL A - 50M COMPETITION POOL ENLARGED PLAN
PL113	POOL A - COMPETITION POOL SECTIONS
PL114	POOL A - COMPETITION POOL DETAILS
PL115	POOL A - DIVING PLAN, SECTIONS AND DETAIL
PL116	POOLS A AND C - SLIDE COMPLEX
PL117	POOLS A AND C - SLIDE DETAILS
PL118	WATER POLO (MEN'S COURSE) PLAN
PL119	WATER POLO (WOMEN'S COURSE) PLAN
PL120	POOL B - PROGRAM POOL PLAN
PL121	POOL B - PROGRAM POOL SECTIONS
PL122	POOL B - PROGRAM POOL DETAILS
PL130	POOL C - LEISURE POOL PLAN
PL131	POOL C - LEISURE POOL ENLARGED PLAN
PL132	POOL C - LEISURE POOL ENLARGED PLAN
PL133	POOL C - LEISURE POOL SECTIONS
PL134	POOL C - LEISURE POOL DETAILS
PL200	STRUCTURAL NOTES AND PLAN(S)
PL201	STRUCTURAL PLAN(S)
PL202	STRUCTURAL PLAN(S)
PL210	STRUCTURAL DETAILS
PL211	STRUCTURAL DETAILS
PL212	STRUCTURAL DETAILS
PL213	STRUCTURAL DETAILS
PL300	OVERALL PIPING PLAN
PL301	MECHANICAL NOTES
PL302	GENERAL DETAILS
PL310	POOL A - LAP POOL PIPING PLAN
PL320	POOL B - PROGRAM POOL PIPING PLAN
PL330	POOL C - LEISURE POOL PIPING PLAN
PL331	POOL C - LEISURE POOL PIPING PLAN
PL332	POOL C - LEISURE POOL PIPING PLAN
PL333	POOL C - LEISURE POOL PIPING PLAN
PL334	POOL C - SLIDE PIPING PLAN
PL400	MECHANICAL EQUIPMENT PLAN
PL401	MECHANICAL EQUIPMENT SCHEDULES
PL402	MECHANICAL DETAILS
PL403	MECHANICAL DETAILS
PL404	MECHANICAL DETAILS
PL405	MECHANICAL DETAILS
PL406	DEFENDER DETAILS
PL510	POOL A MECHANICAL SCHEMATIC
PL511	POOL A ELECTRICAL SCHEMATIC
PL520	POOL B MECHANICAL SCHEMATIC
PL521	POOL B ELECTRICAL SCHEMATIC
PL530	POOL C MECHANICAL SCHEMATIC
PL531	POOL C ELECTRICAL SCHEMATIC

SCHEDULE - SHEET LIST MYRTHA POOL A

SHEET NO.	SHEET NAME
GL01 - A	POOL A - 50 METERC COMPETITION POOL PLAN AND 3D VIEWS
GL02 - A	POOL A - 50 METER COMPETITION POOL SECTIONS
GL03 - A	POOL A - 50 METER COMPETITION POOL DETAILS
GL04 - A	POOL A - 50 METER COMPETITION POOL TECHNOLOGY PLAN AND WALL SECTIONS

SCHEDULE - SHEET LIST MYRTHA POOL B

SHEET NO.	SHEET NAME
GL01 - B	POOL B - PROGRAM POOL PLAN AND SECTIONS
GL02 - B	POOL B - PROGRAM POOL DETAILS
GL03 - B	POOL B - PROGRAM POOL TECHNOLOGY PLAN AND WALL SECTIONS

SCHEDULE - SHEET LIST MYRTHA POOL C

SHEET NO.	SHEET NAME
GL01 - C	POOL C - LEISURE POOL PLAN AND 3D VIEW
GL02 - C	POOL C - LEISURE POOL SECTIONS
GL03 - C	POOL C - LEISURE POOL TECHNOLOGY PLAN AND WALL SECTIONS
GL04 - C	POOL C - LEISURE POOL DETAILS

POOL ASSOCIATED BID ALTERNATES (SEE SPECIFICATION 131113 FOR DESCRIPTION):

BID ALTERNATE #3 - SPLASHTACULAR FLY TIME SLIDE (ASSOCIATED WITH POOL A)
BID ALTERNATE #4 - AQUACLIMB AQUA ZIPN (ASSOCIATED WITH POOL B)
BID ALTERNATE #5 - REDUCED SIZE SPRAY STRUCTURE (ASSOCIATED WITH POOL C)

GENERAL NOTES:
1. LOCATE LIFEGUARD CHAIRS AS REQUIRED PER STATE AND LOCAL CODES AND PER OWNER'S SAFETY CONSULTANT.
2. SCHEDULE QUANTITIES ARE SHOWN FOR VALUE ENGINEERING PURPOSES. IT IS THE INSTALLING CONTRACTORS RESPONSIBILITY TO VERIFY QUANTITIES REQUIRED.
3. CONTRACTOR SHALL CONTACT ENGINEER FOR ELECTRONIC DRAWING FILES PRIOR TO COMMENCING POOL STAKING WORK.
4. ENGINEER WILL PROVIDE ELECTRONIC PLAN VIEW OF ALL POOLS IN AUTOCAD DRAWING FORMAT FOR CONTRACTOR'S USE TO LOCATE STRUCTURES AND RELATED POOL DECK EQUIPMENT.
5. REFER TO PL100 SERIES DRAWINGS FOR ALL POOL PLAN INFORMATION, RELATED EQUIPMENT, AND DETAILS.
6. REFER TO PL200 SERIES DRAWINGS FOR ALL POOL STRUCTURAL PLANS, RELATED INFORMATION, AND DETAILS.
7. REFER TO PL300 SERIES DRAWINGS FOR ALL POOL AND DRAIN PIPING AND RELATED INFORMATION AND DETAILS.
8. REFER TO PL400 SERIES DRAWINGS FOR ALL MECHANICAL EQUIPMENT INFORMATION AND RELATED DETAILS.
9. REFER TO PL500 SERIES DRAWINGS FOR ELECTRICAL SCHEMATICS AND P&IDs.
10. REFER TO GL00 SERIES DRAWINGS FOR MYRTHA INFORMATION.

CODES, STANDARDS AND REGULATIONS:
CONTRACTOR SHALL BE FAMILIAR WITH ALL CODES AND STANDARDS LISTED BELOW AND ALERT THE ARCHITECT/ENGINEER TO CONFLICTS IN THE DRAWINGS

CODE JURISDICTION
CHICO, CA; BUTTE COUNTY

HEALTH & SAFETY CODE:
STATE HEALTH CODE: CALIFORNIA CONFERENCE OF DIRECTORS OF ENVIRONMENTAL HEALTH, JANUARY 1, 2023

ACCESSIBILITY STANDARDS AND REGULATIONS:

UNITED STATES:
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

COMPETITIVE SWIMMING GOVERNING BODIES:

SWIMMING:
USA SWIMMING

DIVING:
WORLD AQUATICS (FORMERLY FINA)

WATER POLO:
US WATER POLO

BATHER CAPACITY

BATHER CAPACITY IS CALCULATED IN ACCORDANCE WITH SECTION 3120B.2 OF THE CCDEH CODE AS FOLLOWS:

1. POOL A:
   a. 12630 (SF) WATER / 20 (SF/BATHER) = 614 BATHERS.
2. POOL B:
   a. 2722 (SF) WATER / 20 (SF/BATHER) = 136 BATHERS.
3. POOL C:
   a. 7490 (SF) WATER / 20 (SF/BATHER) = 375 BATHERS.
4. TOTAL 1125 BATHERS

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INTERIM REVIEW
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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23214
Issue	PERMIT & BID SET
Date	2025-01-24

PL100
OVERALL AQUATIC PLAN

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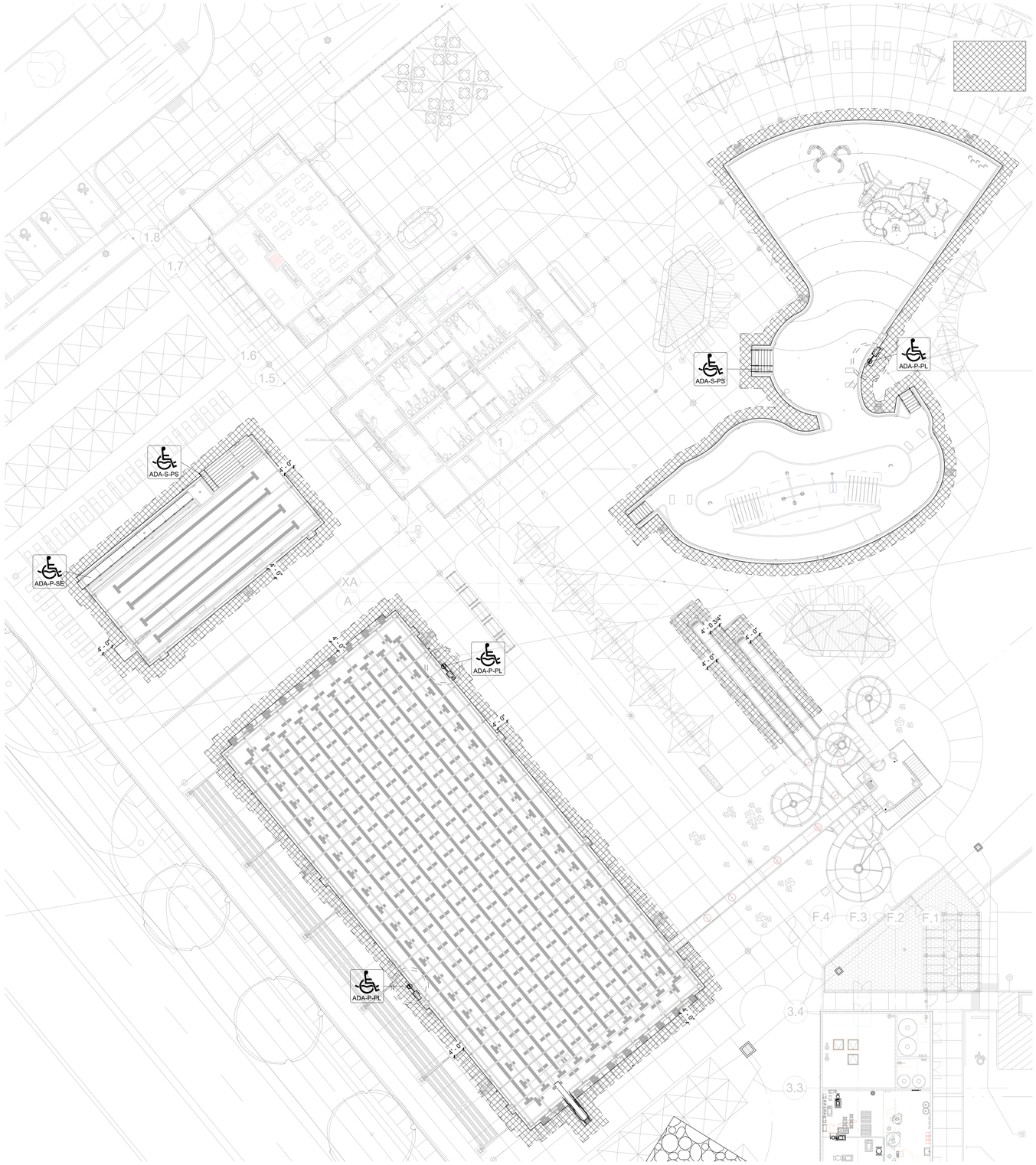

PER THE CALIFORNIA BUILDING CODE SECTION 3114B.1 GENERAL, A MINIMUM CONTINUOUS AND UNOBSTRUCTED 4-FOOT WIDE (1219 mm) SLIP RESISTANT, CLEANABLE, NONABRASIVE DECK AREA OF CONCRETE OR LIKE MATERIAL SHALL BE PROVIDED FLUSH WITH THE TOP OF THE POOL COPING EXTENDING COMPLETELY AROUND THE POOL, AND THE DECK AREA SHALL FURTHER EXTEND 4 FEET (1219 mm) ON BOTH SIDES AND REAR OF ANY DIVING BOARD, FIXED DISABLED ACCESS ASSISTANCE DEVICE OR SLIDE AND THEIR APPURTENANCES. THE DECK WIDTH SHALL BE MEASURED FROM THE POOL SIDE EDGE OF THE COPING LIP.

1 PL101 DECK CLEARANCE AND ADA ACCESS PLAN VIEW
1/16" = 1'-0"

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CHICO AREA RECREATION & PARK DISTRICT

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PL101

DECK CLEARANCE AND ADA ACCESS PLAN

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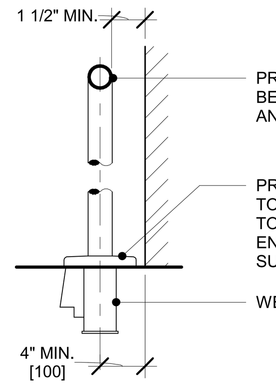
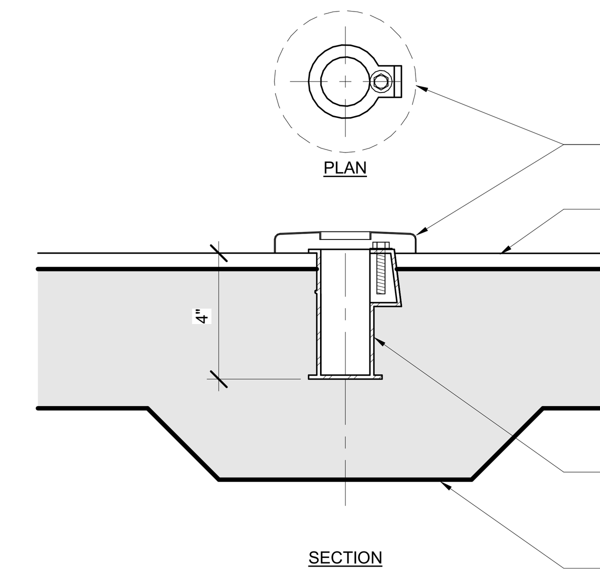


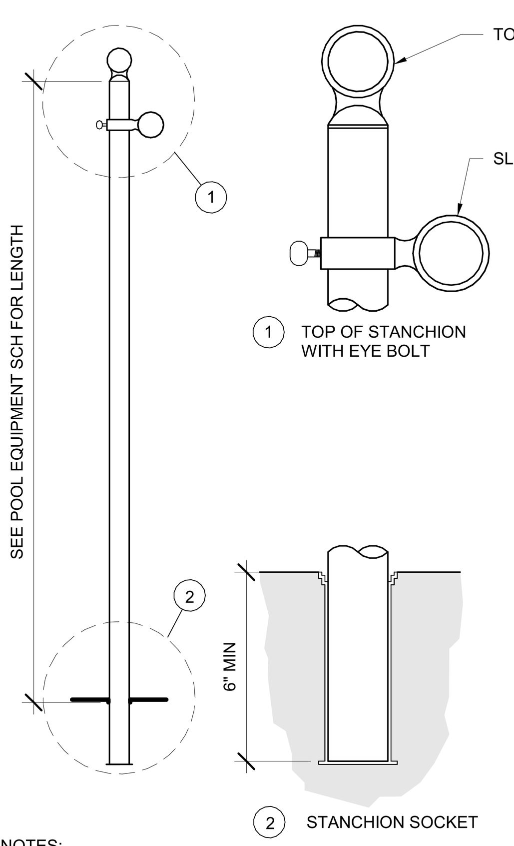
NOTES:
1. CONTRACTOR TO PURCHASE AND INSTALL RAIL GOODS IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS OF PARTIES HAVING JURISDICTION.
2. CONTRACTOR TO VERIFY HANDRAIL DIMENSIONS PRIOR TO FABRICATION.

2 PL102 RAILING OFFSET TO ADJACENT SURFACE
DETAIL VIEW
3/4" = 1'-0"



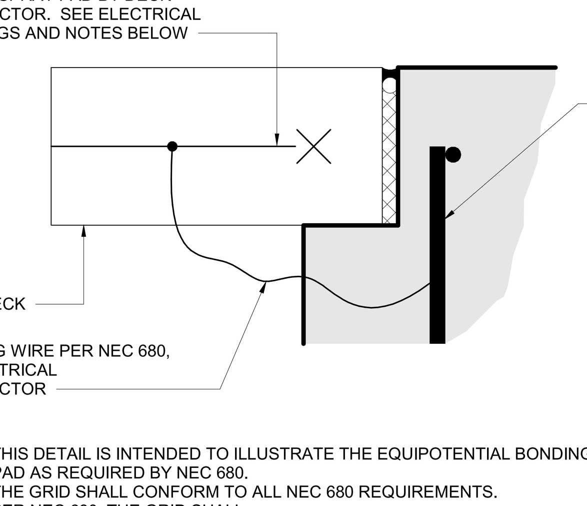
NOTES:
1. INSTALL ANCHORS IN LINE WITH RAIL.
2. CONCRETE CLEAR COVER AT ANCHOR SHALL BE 3" MINIMUM. THICKEN SLAB IF NECESSARY TO ACHIEVE MIN COVER.
3. WHEN SECOND LAYER OF CONCRETE IS LOCATED DIRECTLY BELOW SLAB IN WHICH ANCHOR IS PLACED (I.E. STAIRS), CLEAR COVER OF CONCRETE AT ANCHOR IN UPPER SLAB SHALL BE 2" MIN.

3 PL102 ANCHOR DETAIL - WEDGE
DETAIL VIEW
3" = 1'-0"



NOTES:
1. ONE SOCKET IS REQUIRED FOR ANCHORAGE OF EACH STANCHION.
2. SOCKET IS SS AND SHALL BE FURNISHED WITH SLIP-FIT CLOSURE CAP.
3. PROVIDE KEY FOR EACH CAP.

4 PL102 STANCHION DETAIL
DETAIL VIEW
NONE



NOTES:
1. THIS DETAIL IS INTENDED TO ILLUSTRATE THE EQUIPOTENTIAL BONDING GRID AROUND EACH POOL, TANK, AND/OR SPRAY PAD AS REQUIRED BY NEC 680.
2. THE GRID SHALL CONFORM TO ALL NEC 680 REQUIREMENTS.
3. PER NEC 680, THE GRID SHALL:
   3.a. COMPLETELY SURROUND THE PERIMETER OF THE POOL, TANK, AND/OR SPRAY PAD AND EXTEND 3 FEET HORIZONTALLY FROM THE INSIDE WALLS OF THE POOL, AND/OR TANK, OR PERIMETER EXPANSION JOINT AT SPRAY PADS.
   3.b. BE ARRANGED IN A 12" X 12" (OR LESS) NETWORK OF CONDUCTORS IN A UNIFORMLY SPACED PATTERN.
   3.c. BE BONDED TO THE POOL, TANK, AND/OR SPRAY PAD REINFORCING STEEL.
4. THIS DETAIL IS NOT INTENDED TO DETAIL THE WALLS, SLABS, OR THE DECKS. THE ABOVE DETAIL IS SCHEMATIC. SEE POOL, TANK, AND/OR SPRAY PAD SECTIONS AND DECK SECTIONS FOR ADDITIONAL CONSTRUCTION REQUIREMENTS.
5. SEE POOL, TANK, AND/OR SPRAY PAD ELECTRICAL DRAWINGS FOR ADDITIONAL BONDING & GROUNDING REQUIREMENTS.

5 PL102 POOL EQUIPOTENTIAL BONDING GRID
DETAIL VIEW
3" = 1'-0"

LEGEND - FINISHES & COLOR CODES - POOL A

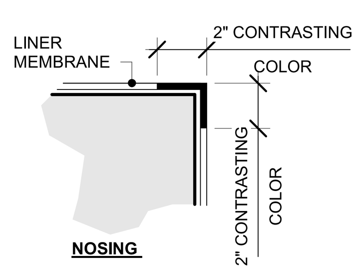
AREA	FINISHES		COLORS		NOTES
	FINISH ID	FINISH	COLOR ID	COLOR	
DEPTH MARKERS - DECK	SB	SANDBLASTED	C03	BLACK ON WHITE	
DEPTH MARKERS - WALL	VN	VINYL	C03	BLACK ON WHITE	ON POOL WALLS
HORIZONTAL SURFACE (WET)	MY	MYRTHA PVC MEMBRANE	C06	LIGHT COLOR	WHITE
LANE MARKERS - FLOOR	MP	PVC PAINT	C07	CONTRASTING TO POOL FINISH	
LANE MARKERS - WALL	MP	PVC PAINT	C07	CONTRASTING TO POOL FINISH	
VERTICAL SURFACE (WET)	MY	MYRTHA PVC MEMBRANE	C06	LIGHT COLOR	WHITE

LEGEND - FINISHES & COLOR CODES - POOL B

AREA	FINISHES		COLORS		NOTES
	FINISH ID	FINISH	COLOR ID	COLOR	
BENCH AND STAIR NOSING - CONSTRASTING	MP	PVC PAINT	C07	CONTRASTING TO POOL FINISH	
DEPTH MARKERS - DECK	SB	SANDBLASTED	C03	BLACK ON WHITE	
DEPTH MARKERS - NO DIVING	SB	SANDBLASTED	C04	BLACK AND RED ON WHITE	
DEPTH MARKERS - WALL	VN	VINYL	C03	BLACK ON WHITE	ON POOL WALLS
HORIZONTAL SURFACE (WET)	MY	MYRTHA PVC MEMBRANE	C06	LIGHT COLOR	WHITE
LANE MARKERS - FLOOR	MP	PVC PAINT	C07	CONTRASTING TO POOL FINISH	
LANE MARKERS - WALL	MP	PVC PAINT	C07	CONTRASTING TO POOL FINISH	
TILE - WATERLINE	KT1	1"x1" KEYSTONE TILE	C01	AS SELECTED BY ARCHITECT	
VERTICAL SURFACE (WET)	MY	MYRTHA PVC MEMBRANE	C06	LIGHT COLOR	WHITE

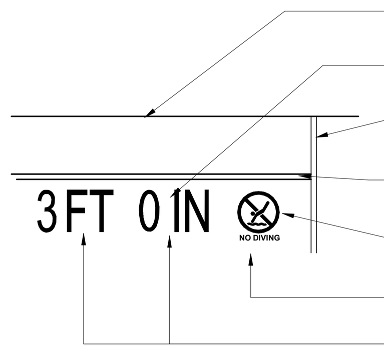
LEGEND - FINISHES & COLOR CODES - POOL C

AREA	FINISHES		COLORS		NOTES
	FINISH ID	FINISH	COLOR ID	COLOR	
BENCH AND STAIR NOSING - CONSTRASTING	MP	PVC PAINT	C07	CONTRASTING TO POOL FINISH	
DEPTH MARKERS - DECK	SB	SANDBLASTED	C03	BLACK ON WHITE	
DEPTH MARKERS - NO DIVING	SB	SANDBLASTED	C04	BLACK AND RED ON WHITE	
DEPTH MARKERS - WALL	CT1	6"x6" CERAMIC TILE	C03	BLACK ON WHITE	ON POOL WALLS
HORIZONTAL SURFACE (WET)	MY	MYRTHA PVC MEMBRANE	C06	LIGHT COLOR	WHITE
TILE	SR1	1"x1" KEYSTONE TILE	C01	AS SELECTED BY ARCHITECT	
TILE - WATERLINE	KT1	1"x1" KEYSTONE TILE	C01	AS SELECTED BY ARCHITECT	
TRIM TILE - HANDHOLD	C701	1"x1" C-701 HANDHOLD TRIM TILE	C01	AS SELECTED BY ARCHITECT	
VERTICAL SURFACE (WET)	MY	MYRTHA PVC MEMBRANE	C06	LIGHT COLOR	WHITE

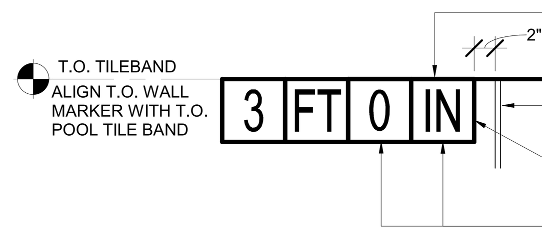


NOTES:
1. NOSING: 2" MIN. CONTRASTING BAND REQUIRED ON TREAD NOSING AND TOP OF RISER UNLESS OTHERWISE NOTED.

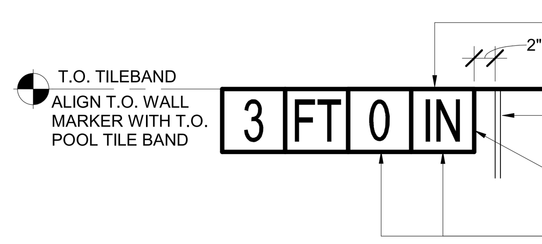
FINISH NOTES:
1. FINISHES PER SCHEDULE UNLESS OTHERWISE INDICATED.
2. VERTICAL SURFACE (WET) AND HORIZONTAL SURFACE (WET) SHALL BE AT LEAST 6.5 ON THE MUNSELL COLOR VALUE SCALE. CONTRASTING COLORS SHALL HAVE A MUNSELL VALUE OF 0 TO 4.
3. ALL HORIZONTAL SURFACES MUST BE SLIP RESISTANT AND COMPLY WITH THE ANSI A137.1 STANDARD USING THE DCOF ACUTEST METHODOLOGY:
3A. ON WET LEVEL SURFACES, PROVIDE DYNAMIC COEFFICIENT OF FRICTION OF =/> 0.42.
3B. ON WET SLOPED SURFACES, PROVIDE DYNAMIC COEFFICIENT OF FRICTION OF =/> 0.65.
4. DESIGN WATERLINE SHALL HAVE A MAXIMUM CONSTRUCTION TOLERANCE WHEN FINISHED OF +/- 1/4" FOR POOLS AND SPAS WITH ADJUSTABLE SURFACE SKIMMING, AND +/- 1/8" FOR POOLS AND SPAS WITH NONADJUSTABLE SURFACE SKIMMING.



DECK DEPTH MARKER



WALL DEPTH MARKER



WALL DEPTH MARKER

NOTES:
1. - WALL DEPTH MARKER AT LOCATIONS AS INDICATED ON PLAN BY THIS SYMBOL.
2. EXCLUDE "NO DIVING" MARKER TILES AT POOL WALL DEPTH MARKER LOCATIONS AND AT POOL DEPTHS GREATER THAN 5'-0".
3. DEPTH MARKERS SHALL BE LEGIBLE FROM INSIDE THE POOL AND FROM THE POOL DECK.
4. THE POOL CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING MARKINGS ACCURATE TO WITHIN ONE INCH OF THE CONSTRUCTED WATER DEPTHS AT LOCATIONS INDICATED ON PLAN AT A MAX 25'-0" SPACING AND IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.
5. DEPTH MARKER TEXT SHALL INDICATE THE ACTUAL POOL DEPTH WITHIN 3" AT NORMAL OPERATING WATER LEVEL WHEN MEASURED 3'-0" FROM POOL WALL. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING PROPER TEXT FOR EACH MARKER LOCATION.
6. MARKINGS SHALL BE INSTALLED FLUSH WITH SURROUNDING SURFACES AND RECESSED IF NECESSARY.
7. ALL MARKINGS INSTALLED ON HORIZONTAL SURFACES SHALL HAVE A SLIP RESISTANT FINISH.
8. DEPTH MARKERS SHALL BE LOCATED WITHIN 18" OF THE WATER'S EDGE.
9. PROVIDE CONTRASTING COLOR USING LITHICHROME STONE PAINT WITH MANUFACTURER'S RECOMMENDED SEALANT FOR ENGRAVING DECK DEPTH MARKERS. CLEVELAND LITHICHROME WITH HIGH POLISH OR EQUIVALENT.

1 PL102 FINISH DETAIL - DEPTH MARKER DECK & WALL
DETAIL VIEW
1" = 1'-0"

TAG LEGEND

PIPE TAG (P1-20A): LINE TYPE IDENTIFIER, SYSTEM IDENTIFIER, PIPE IDENTIFIER, POOL IDENTIFIER	POOL EQUIPMENT TAG (A01): POOL IDENTIFIER, EQUIPMENT IDENTIFIER
MECHANICAL EQUIPMENT TAG (P1A): EQUIPMENT IDENTIFIER, SYSTEM IDENTIFIER, POOL IDENTIFIER	DIMENSION TAG (100): POINT LOCATION, POINT IDENTIFIER
WATER FEATURE TAG (F01): FEATURE DESIGNATOR, EQUIPMENT IDENTIFIER	ELEVATION TAG: ELEVATION, 100.00 REFERENCE, LOCATION
CUSTOM RAILGOODS TAG (A01): POOL IDENTIFIER, RAILGOODS IDENTIFIER	POOL STRUCTURAL TAG (AH1): POOL IDENTIFIER, WALL TYPE IDENTIFIER
POOL FIXTURE TAG (A-PF1): POOL IDENTIFIER, POOL FIXTURE DESIGNATOR, EQUIPMENT IDENTIFIER	REVISION TAG (1): REVISION NUMBER
POOL FINISH TAG (A QA C01 WATERLINE TILE): FINISH TYPE ID, POOL IDENTIFIER, FINISH COLOR ID, FINISH DESCRIPTION	DIMENSIONAL UNITS: IMPERIAL UNITS 3/4", METRIC UNITS (mm)
POOL ACCESSIBILITY TAG (ADA-P-SE): P = PRIMARY, S = SECONDARY, MEANS OF ACCESS	POOL FLOOR ELEVATION RELATIVE TO (SWL): ELEVATION -5'-0" WD

EQUIPMENT IDENTIFIER KEY

AC	AIR COMPRESSOR	FP	FLOW METER POWER SUPPLY
AF	AUTOFILL	H	HEATER
AOP	ADVANCED OXIDATION PROCESS	HX	HEAT EXCHANGER
AP	pH CONTROL PUMP	P	PUMP
AS	pH CONTROL STORAGE	PV	PNEUMATIC MAIN DRAIN VALVE
BP	BOOSTER PUMP	S	STRAINER
C	CHEMICAL CONTROLLER	SC	CONTAINMENT PALLETE
CP	CHLORINE FEED PUMP	SV	SURGE TANK FAN
CS	CHLORINE STORAGE	UV	ULTRA-VIOLET DISINFECTION
EV	ELECTRONIC MAIN DRAIN VALVE	V	VARIABLE FREQUENCY DRIVE
F	FILTER	WC	WATER CHILLER
FM	FLOW METER		

ABBREVIATIONS

AHJ	AUTHORITY HAVING JURISDICTION	P&ID	PIPING & INSTRUMENTATION DIAGRAM
BO	BOTTOM OF	PL	POOL LIFT
CJ	CONTROL JOINT	PS	POOL STAIRS
DIA	DIAMETER	SCH	SCHEDULE
EJ	EXPANSION JOINT	SE	SLOPED ENTRY
EW	EACH WAY	SS	STAINLESS STEEL
FFE	FINISH FLOOR ELEVATION	SWL	STATIC WATER LEVEL
ID	INSIDE DIAMETER	TO	TOP OF
MAX	MAXIMUM	TS	TRANSFER SYSTEM
MIN	MINIMUM	TUBC	TRUE UNION CHECK VALVE
NC	NORMALLY CLOSED	TUBV	TRUE UNION BALL VALVE
NO	NORMALLY OPEN	TW	TRANSFER WALL
NPS	NOMINAL PIPE SIZE	TYP	TYPICAL
OC	ON CENTER	WD	WATER DEPTH
OD	OUTSIDE DIAMETER		
OWE	OPERATING WATER ELEVATION		

SCHEDULE - SAFETY & MAINTENANCE EQUIPMENT

QTY	PRODUCT NAME	MANUFACTURER	NOTES
2	25 PERSON AQUATIC FIRST AID KIT	WATER SAFETY PRODUCTS	25 PERSON OSHA FIRST AID KIT TO INCLUDE BIOHAZARD COMPLIANCE RESPONSE AND CPR MICROMASK WITH NITRILE GLOVES
1	AUTOMATIC VACUUM CLEANING SYSTEM	MAYTRONICS ULTRAMAX GEMINI	DOLPHIN WAVE 140 AUTOMATIC CLEANER, RADIO REMOTE CONTROL, CADDY, FINE FILTER KIT WITH TOP ACCESS, SIX (6) ACTIVE BRUSHES, SUCTION RATE: 9,000 GPH, 140 FT CORD, 3 YEAR WARRANTY
1	AUTOMATIC VACUUM CLEANING SYSTEM	MAYTRONICS	DOLPHIN WAVE 300XL AUTOMATIC CLEANER, RADIO REMOTE CONTROL, CADDY, FILTER BAG WITH TOP ACCESS, ADDITONAL FILTER BAG, FULL BAG INDICATOR, ANTI-TANGLING SWIVEL, SIX (6) ACTIVE BRUSHES, SUCTION RATE: 10,560 GPH, 165 FT CORD, 3 YEAR WARRANTY
1	DEFIBRILLATOR	WATER SAFETY PRODUCTS	ZOLL AED PLUS DEFIBRILLATOR COMPLETE AED PACKAGE WITH CPR-D PADZ ELECTRODES, CPR HELP TECHNOLOGY WITH REAL-TIME DEPTH AND RATE CPR FEEDBACK, LITHIUM 123 BATTERIES WITH 5 YEAR SHELF LIFE, CARRYING CASE AND AED PRESCRIPTION
12	LIFE BUOY	WATER SAFETY PRODUCTS	30" DIA, MADE OF UNICELL SOFT FOAM WITH HARD SHELL COVERING. INCLUDE STAINLESS STEEL MOUNTING BRACKETS AND STAINLESS STEEL ANCHORS AND BOLTS. MOUNT UNIT ON WALL IN COORDINATION WITH OWNER
4	LIFE HOOK & RESCUE POLE	WATER SAFETY PRODUCTS	ANODIZED ALUMINUM POLE, WITH DOUBLE LIFE HOOK. 2 - 8 FEET SECTIONS WITH CONNECTOR & RUBBER END CAP. INCLUDE STAINLESS STEEL MOUNTING BRACKETS AND STAINLESS STEEL ANCHORS AND BOLTS. MOUNT UNIT ON WALL IN COORDINATION WITH OWNER
2	MANUAL VACUUM CLEANING SYSTEM	HAMMERHEAD	RESORT-21; (RESORT-30): 21"(30") VACUUM HEAD WITH (2) LARGE CAPACITY BAGS, 60 FOOT CORD, STAINLESS STEEL POLE SWIVEL MOUNT AND WELDED ALUMINUM CADDY W/ 20" WHEELS. PROVIDE WITH 12V DEEP CYCLE MARINE BATTERY, BATTERY CHARGER, AND 1 1/8" STANDARD POOL POLE.
12	RESCUE TUBE	WATER SAFETY PRODUCTS	50" LONG x 6" WIDE x 4" THICK. NO CLIPS, NO RINGS. 2" WIDE ADJUSTABLE SHOULDER STRAP , CONNECTED TO TUBE BY 1" STRAPPING. STRAPPING EXTENDS COMPLETELY THROUGH LENGTH OF TUBE.
4	SPINEBOARD W/ HEAD IMMOBILIZER	WATER SAFETY PRODUCTS	X-RAY TRANSLUCENT BACKBOARD WITH HEAD IMMOBILIZER AND BODY STRAPS. INCLUDE STAINLESS STEEL MOUNTING BRACKETS AND STAINLESS STEEL ANCHORS AND BOLTS. MOUNT UNIT ON WALL IN COORDINATION WITH OWNER
12	THROW LINE	WATER SAFETY PRODUCTS	60' MARINE POLYPRO LINE, WITH 3" x 5" LEMON FLOAT
2	WATER TEST KIT	TAYLOR "SERVICE COMPLETE"	FAS DPD CHLORINE KIT

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number 23214
Issue PERMIT & BID SET
Date 2025-01-24

PL102
GENERAL DETAILS AND SCHEDULES

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ARCH D SHEETS

SEE MYRTHA DRAWINGS FOR MYRTHA EQUIPMEMNT INCLUDING, BUT NOT LIMITED TO:

INWALL STEPS
LANE LINE ANCHORS

SEE PL116 AND PL117 FOR POOL A AND POOL C SLIDES AND INFORMATION

DIMENSIONING NOTES:

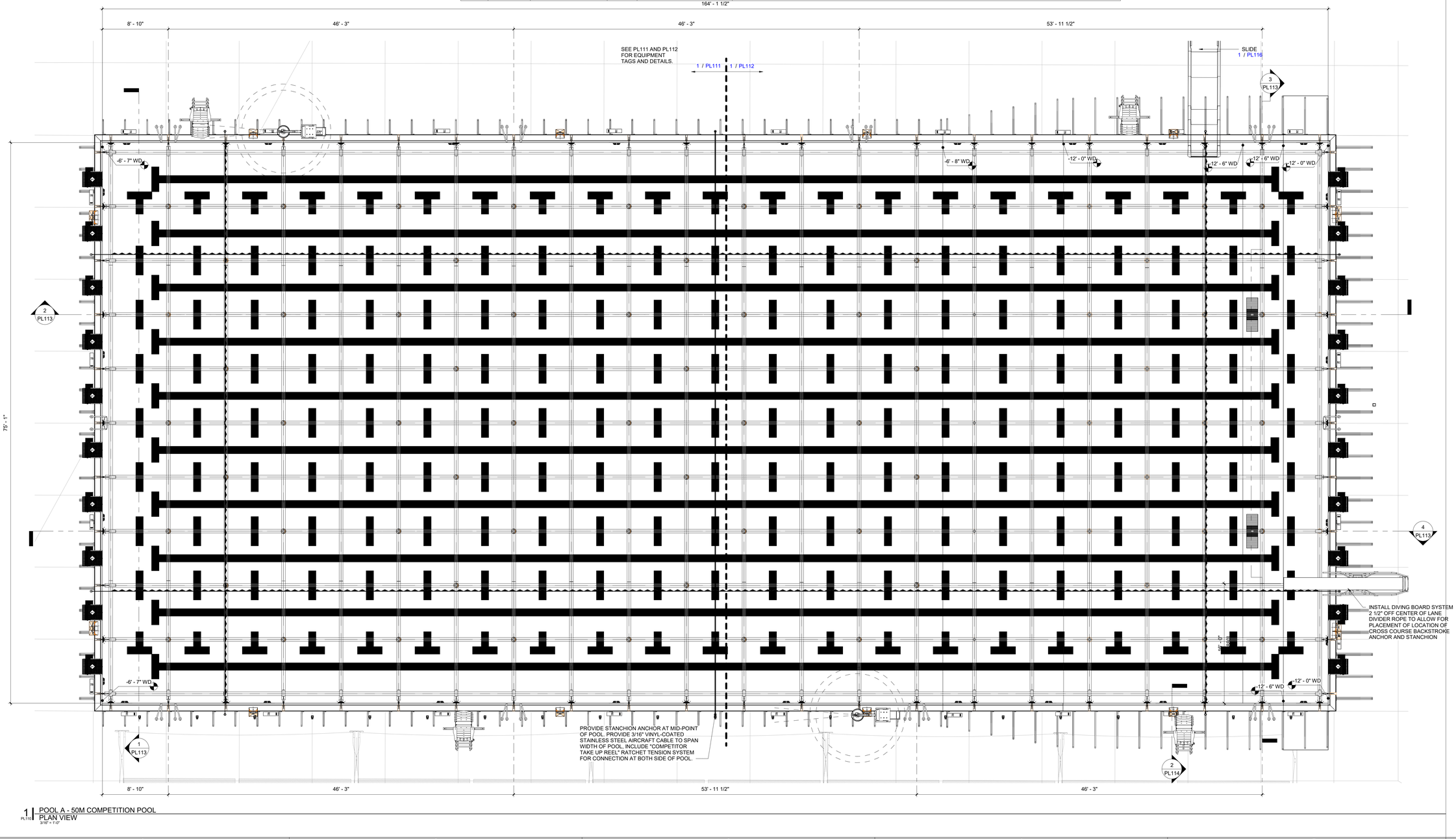
1. ALL DIMENSIONS ARE SHOWN FROM POOL FINISH TO POOL FINISH (THIS SHEET)

SCHEDULE - BASIS OF DESIGN - POOL A

POOL ID	EQUIPMENT ID	EQUIPMENT	QTY	MANUFACTURER	DESCRIPTION
A	01	POOL LIFT	2	SR SMITH, AQUA CREEK, OR EQUAL	STANDARD ANCHORED, ROTATIONAL POOL LIFT, WITH 400 LB MINIMUM LIFTING CAPACITY. MUST MEET ALL APPLICABLE ADA REQUIREMENTS, WHILE MAINTAINING REQUIRED DECK CLEARANCE. PACKAGE TO INCLUDE ARMRESTS, ANCHOR, LIFT COVER, BATTERY CHARGER, AND CADDY
A	02	GRAB RAILS (PAIRS)	8	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	CALIFORNIA STYLE, 1.50" OD x .120 WALL THICKNESS, 500 GRIT FINISH MIN.
A	03	ESCUTCHEON PLATE	36	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	STAINLESS STEEL ROUND ESCUTCHEON FOR 1.50" O.D. RAILS
A	04	WEDGE ANCHOR	36	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	CAST BRONZE, 4-1/4" LONG, ACCEPTS 1.500" OD TUBING
A	05	POOL LADDER	2	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	CROSS BRACED, HEAVY DUTY 1'-8" WIDTH, STEPS 316L SS, 1.50" OD x .120 WALL THICKNESS, 500 GRIT FINISH MIN.
A	06	STARTING PLATFORM	20	MYRTHA/ SPECTRUM	TRACK START SIDE STEP SINGLE POST STARTING PLATFORM WITH ANCHOR
A	07	DIVING BOARD	1	DURAFLEX INTERNATIONAL	DURAFIRM ONE METER STAND WITH DOUBLE GUARD RAILS BOTH SIDES AND BRONZE DECK ANCHORS. PROVIDE WITH 16'-0" DURAFLEX DIVING BOARD
A	08	LANE DIVIDERS	11	COMPETITOR SWIM PRODUCTS	50 METER LENGTH WITH DISCONNECTS FOR 25 YARD LENGTH, 6" WAVE QUELLING RACING LANE LINE. COLORS BY OWNER / ARCHITECT. POOL LANE DIVIDERS SHALL BE SUPPLIED TO PROVIDE 22 LANE DIVIDERS FOR 25 YARD CROSS COURSE AND THEN TRANSITION TO 11 LANE DIVIDERS FOR THE 50 METER COURSE BY COMBINING 2 OF THE 25 YARD LANE DIVIDERS.
A	09	STANCHION	6	S.R. SMITH, SPECTRUM, OR PARAGON AQUATICS	1.90" OD x .145" WALL x 8'-0" LONG 304 STAINLESS STEEL STANCHION POST. PROVIDE SLIDING COLLAR WITH EYE BOLT
A	10	STANCHION ANCHOR	10	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	STAINLESS STEEL STANCHION ANCHOR FOR 48.26mm O.D. RAIL WITH SLIP FIT ANCHOR CAP AND CAP REMOVAL TOOL
A	11	BACKSTROKE FLAG	4	PARAGON AQUATICS	12" x 18" HEAVY DUTY NYLON PENNANTS, PRE-STRUNG AND SPACED ACCORDING TO REGULATIONS ON 3/16" BRAIDED NYLON CORD. PROVIDE SUFFICIENT ADDITIONAL CORD LENGTH TO REACH STANCHIONS. ATTACH ONE END OF FLAG SYSTEM TO STANCHION WITH THE "COMPETITOR TAKE UP REEL" RATCHET TENSION SYSTEM (TOTAL OF 4 "TAKE UP REELS", 2 TAKE UP REEL RATHCET TOOLS REQUIRED) AND THE OTHER END WITH CORROSION RESISTANT SWIVEL HOOK (TYPICAL OF 4 FLAG SYSTEMS). PROVIDE FOUR (4) BACKSTROKE FLAG SYSTEMS, TWO (2) BACKSTROKE FLAG SYSTEMS SHALL SPAN WIDTH (25 YARD) OF POOL FOR 50 METER COURSE. ADDITIONAL TWO (2) BACKSTROKE FLAG SYSTEMS SHALL SPAN THE ENTIRE 50 METER LENGTH (EACH) FOR USE ON 25 YARD CROSS COURSE. INCLUDE ATTACHMENT TO CONNECT CROSS COURSE SYSTEM TO MID-POINT "TAG LINE" SPECIFIED TO SUPPORT THE FLAG SYSTEMS. COLOR SELECTION BY ARCHITECT/OWNER.
A	12	LANE LINE STORAGE REEL	5	PARAGON AQUATICS,SPECTRUM AQUATICS, SR SMITH OR APPROVED EQUAL	LARGE CAPACITY, SS CONSTRUCTION, WITH SS CASTERS AND COVER
A	13	LIGHT & NICHE	40	HAYWARD	J & J ELECTRONICS, 120 VOLT PUREWHITE - PRO HIGH OUTPUT LED POOL LAMP, COOL WHITE, 500 WATT EQUIVALENT, 4,588 LUMEN OUTPUT. INSTALL WITH MYRTHA APPROVED LIGHT NICHE - UCL UNDERWATER LARGE VINYL JIFFY NICHE.
A	14	THERMAL POOL COVER	11	SPECTRUM	#183500-5, HEMMED 5 YEAR WARRANTY = 15' WIDE x 75' LONG,
A	15	POOL COVER REEL	1	SPECTRUM	BITTERROOT III, UNIT LENGTH SHALL BE 16' WIDE TO PROVIDE STORAGE OF 15' WIDE POOL COVER SECTIONS
A	16	POOL COVER REEL	1	SPECTRUM	BITTERROOT II, UNIT LENGTH SHALL BE 16' WIDE TO PROVIDE STORAGE OF 15' WIDE POOL COVER SECTIONS. SHARED WITH POOL B
A	17	LIFEGUARD CHAIR	4	TAILWIND, KEIFER, SPECTRUM AQUATICS, SR SMITH OR APPROVED EQUAL	MODEL LGS15 INCLUDE CUP HOLDER AND UMBRELLA HOLDER. RECYCLED PLASTIC WITH 304 SS HARDWARE, COLOR BY OWNER/ARCHITECT. (OWNER'S SAFETY CONSULTANT TO SPECIFY LOCATION.)
A	18	WATER POLO GOAL	2	ANTIWAVE OR APPROVED EQUAL	ODYSSEY FLOATING WATER POLO GOAL. COLLAPSIBLE FOR STORAGE
A	19	ADJUSTABLE WATER POLO COURSE LAYOUT	1	COMPETITOR SWIM PRODUCTS OR APPROVED EQUAL	COMPLETE 25m/30m ADJUSTABLE WATER POLO COURSE LAYOUT, INCLUDE WORLD AQUATICS COLORED SIDELINE DIVIDERS AND GOAL TETHERS.
A	20	STARTING PLATFORM ANCHOR	21	SPECTRUM	SINGLE POST STARTING PLATFORM ANCHOR

POOL A-50M COMPETITION POOL DATA

DESCRIPTION	QTY	UNITS
POOL PERIMETER	778	FEET
WATER SURFACE AREA	12,323	SQUARE FEET
POOL WATER TEMPERATURE	80	°F
POOL VOLUME	748,095	GALLONS
SURGE TANK OPERATING VOLUME	11,866	GALLONS
TOTAL VOLUME OF WATER	760,161	GALLONS
CIRCULATION RATE	2,117	GPM
TURNOVER/VOLUME/FLOW	359 MIN.	760,161 GAL. 2,117 GPM
FILTRATION RATE	1.30	GPM/FT²
FILTER DRAIN RATE	300	GPM
SURGE FACTOR	1.12	GAL/SQFT
AVAILABLE SURGE CAPACITY IN SURGE TANK	13754	GALLONS
INTENDED USE	COMPETITION	



1 PL110 POOL A - 50M COMPETITION POOL PLAN VIEW
3/16" = 1'-0"

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CHICO AREA RECREATION & PARK DISTRICT

Project Number	23214
Issue	PERMIT & BID SET
Date	2025-01-24

PL110
POOL A - 50M COMPETITION POOL PLAN

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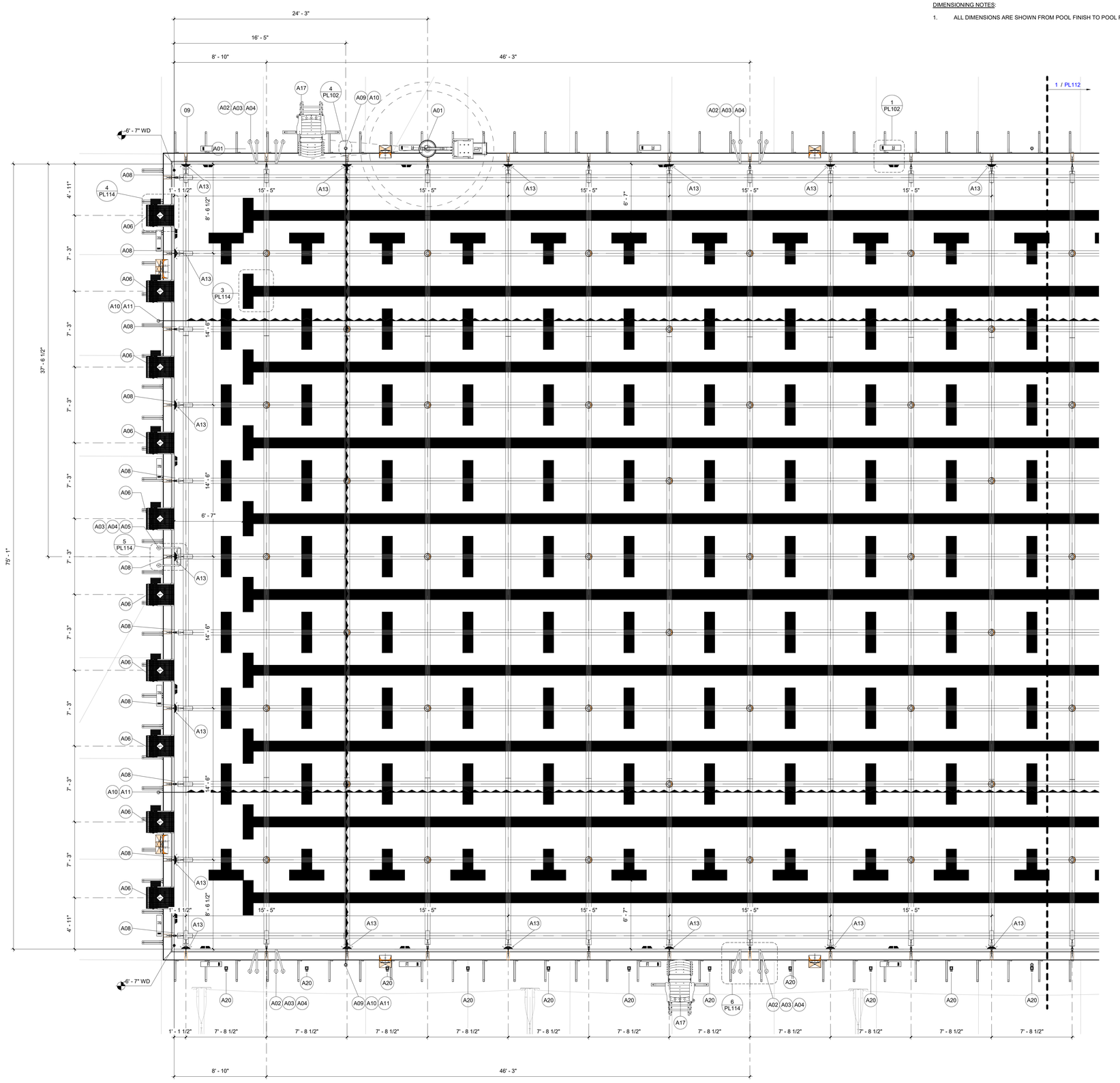
DIMENSIONING NOTES:

1. ALL DIMENSIONS ARE SHOWN FROM POOL FINISH TO POOL FINISH (THIS SHEET)



1 PL111 POOL A - 50M COMPETITION POOL - ENLARGED PLAN VIEW
1/4" = 1'-0"

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CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23214
Issue	PERMIT & BID SET
Date	2025-01-24

PL111
POOL A - 50M COMPETITION POOL ENLARGED PLAN

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG, IF THIS IS NOT THE CASE, ADJUST PRINTING ACCORDINGLY

DIMENSIONING NOTES:

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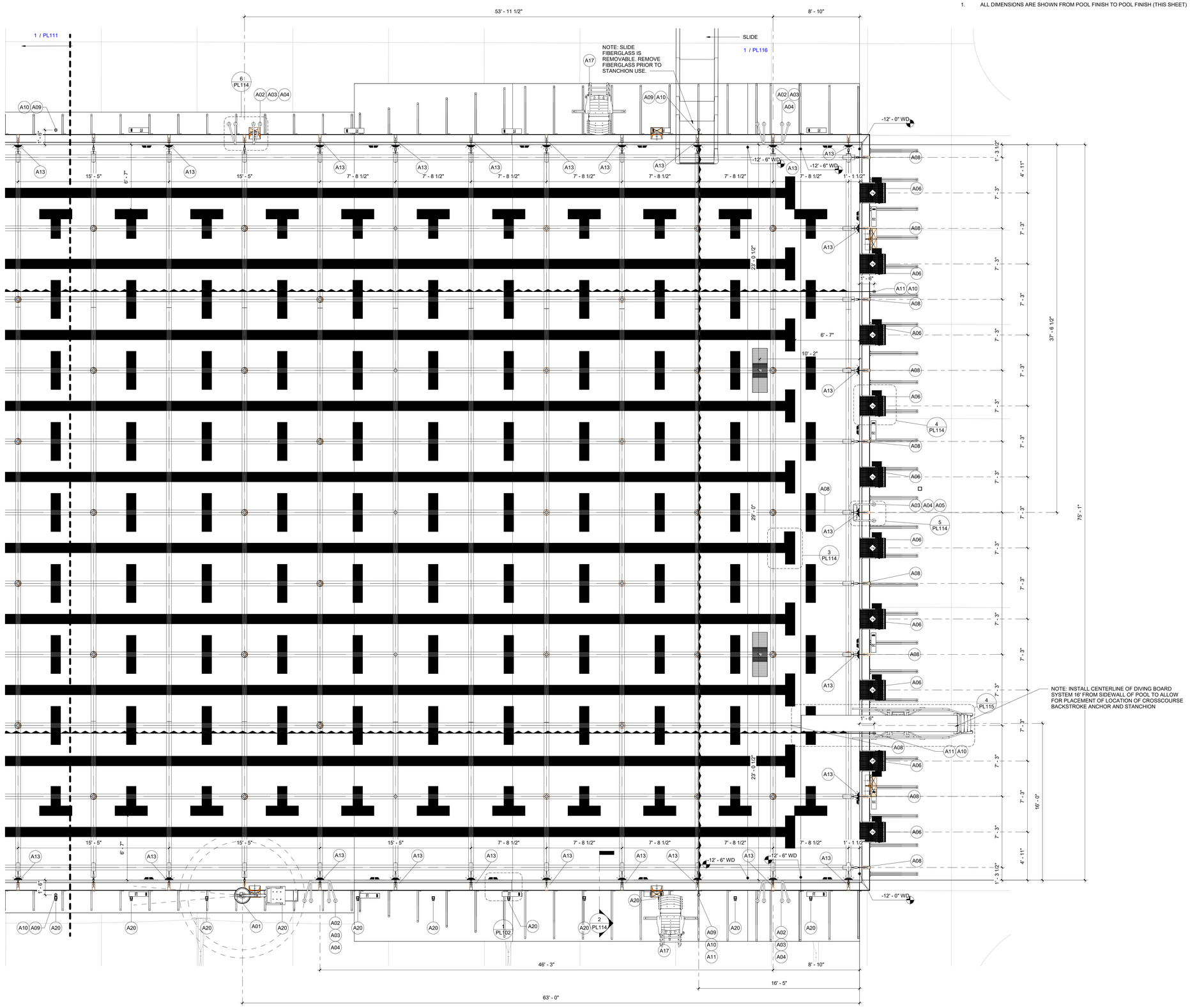

1 PL112 POOL A - 50M COMPETITION POOL - ENLARGED PLAN VIEW
1/4" = 1'-0"

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23214
Issue	PERMIT & BID SET
Date	2025-01-24

PL112
POOL A - 50M COMPETITION POOL ENLARGED PLAN

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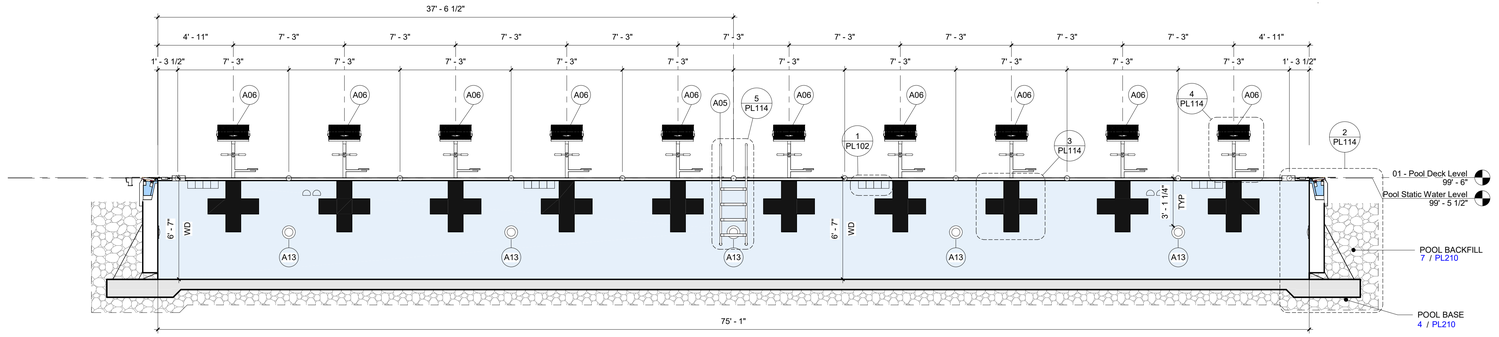
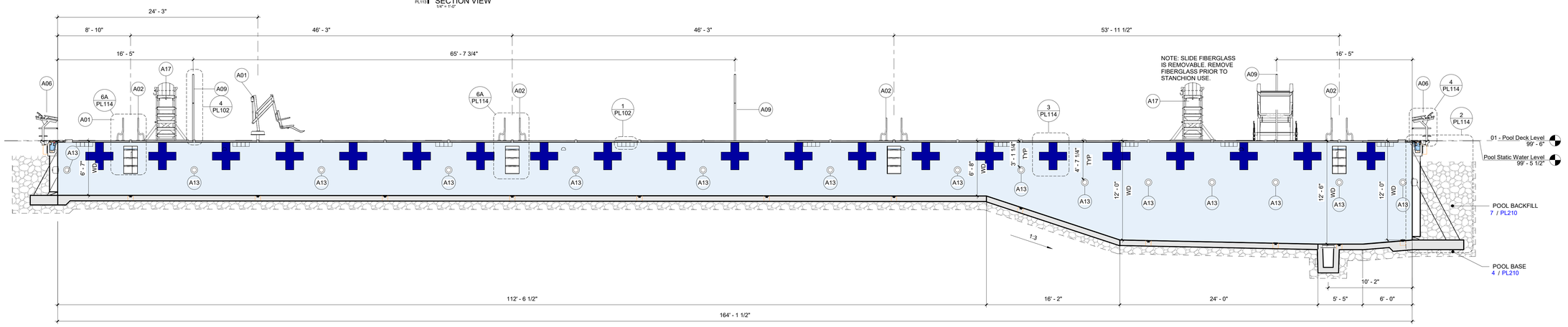
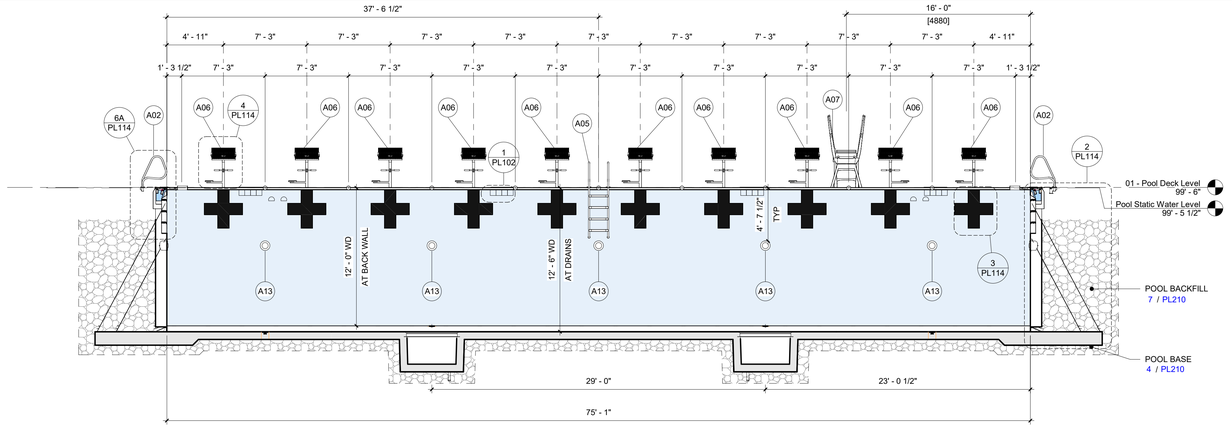


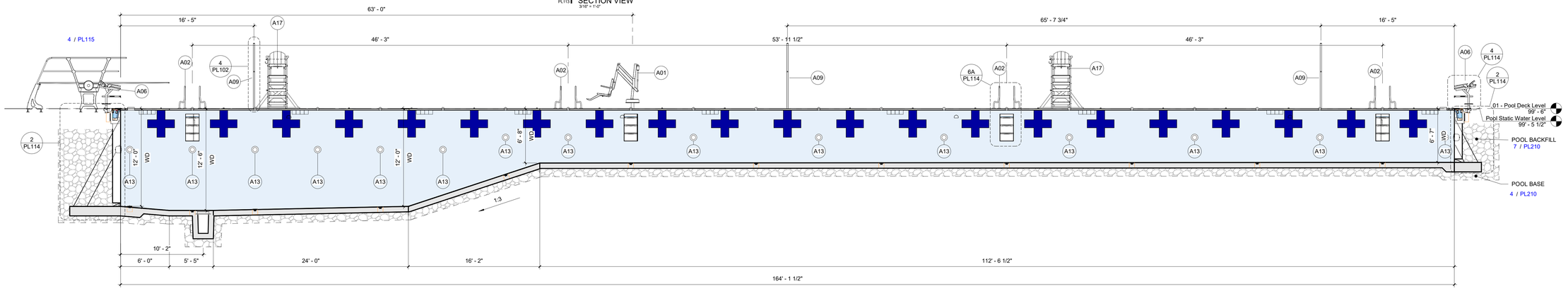
1 | POOL A - 50M COMPETITION POOL SECTION VIEW
PL113 1/4" = 1'-0"



2 | POOL A - 50M COMPETITION POOL SECTION VIEW
PL113 3/16" = 1'-0"



3 | POOL A - 50M COMPETITION POOL SECTION VIEW
PL113 3/16" = 1'-0"



4 | POOL A - 50M COMPETITION POOL SECTION VIEW
PL113 3/16" = 1'-0"

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CHICO AREA RECREATION & PARK DISTRICT

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PL113
POOL A - COMPETITION POOL SECTIONS

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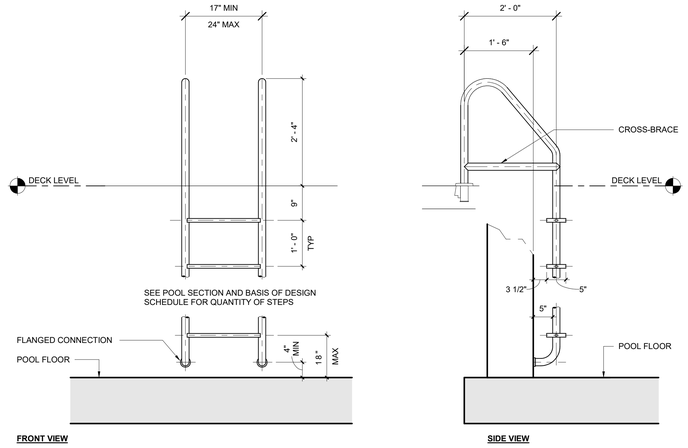
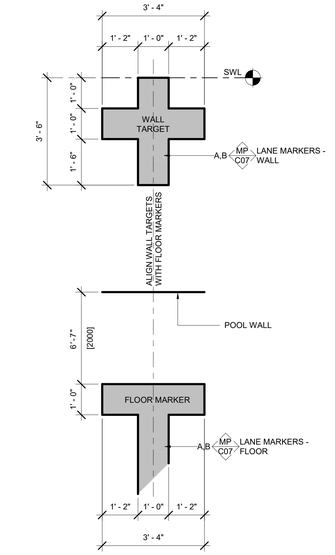
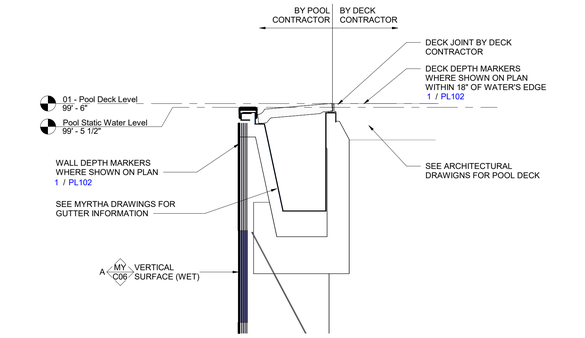


5 | POOL LADDER DETAIL VIEW
PL114 | 3/4" = 1'-0"

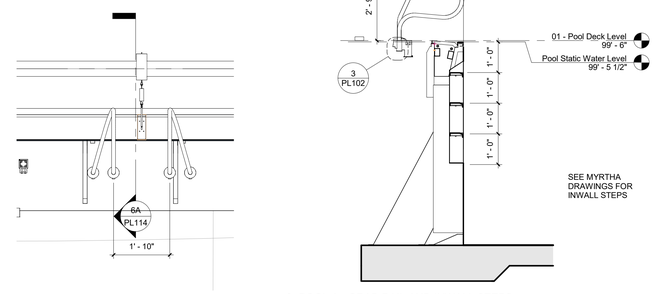


NOTES:
1. FLOOR MARKERS AND WALL TARGES SHALL BE INSTALLED SO THAT FINISHED FACE IS FLUSH WITH FINISHED SURFACE OF POOL SURFACE
2. ALL FLOOR MARKERS AND WALL TARGETS SHALL BE IN A CONTRASTING COLOR TO POOL FINISH, BOTH FLOOR AND WALL. CONFIRM COLOR WITH OWNER/ARCHITECT

3 | FLOOR MARKERS AND WALL TARGETS DETAIL VIEW
PL114 | 1/2" = 1'-0"

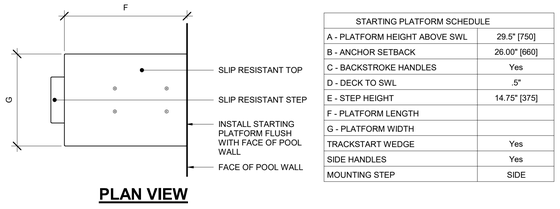


1 | TOP OF WALL DETAIL VIEW
PL114 | 1 1/2" = 1'-0"



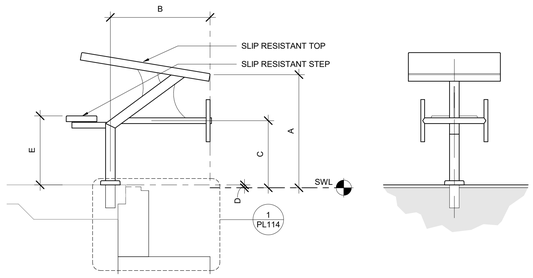
6A | POOL A - GRAB RAIL AND INWALL STEPS SECTION VIEW
PL114 | 1/2" = 1'-0"

6 | POOL A - 50M COMPETITION POOL - GRAB RAILS PLAN VIEW
PL114 | 1/2" = 1'-0"



PLAN VIEW

STARTING PLATFORM SCHEDULE	
A - PLATFORM HEIGHT ABOVE SWL	29.5" [750]
B - ANCHOR SETBACK	26.00" [660]
C - BACKSTROKE HANDLES	Yes
D - DECK TO SWL	.5"
E - STEP HEIGHT	14.75" [375]
F - PLATFORM LENGTH	
G - PLATFORM WIDTH	
TRACKSTART WEDGE	Yes
SIDE HANDLES	Yes
MOUNTING STEP	SIDE



SIDE VIEW

FRONT VIEW

NOTES:
1. STARTING PLATFORM SHOWN IS FOR REFERENCE ONLY. SEE POOL BASIS OF DESIGN SCHEDULE FOR STARTING PLATFORM MANUFACTURER AND MODEL
2. STARTING PLATFORM SHALL BE INSTALLED FLUSH WITH THE FACE OF POOL WALL.
3. ANCHORS TO BE INSTALLED WITH MINIMUM 2" CONCRETE COVERAGE AROUND ANCHOR.
4. CONTRACTOR TO COORDINATE DIMENSION (D) WITH OTHER CONSTRUCTION PRIOR TO ORDERING PLATFORM.
5. CONTRACTOR TO VERIFY DIMENSION (D) PRIOR TO ORDER.

4 | STARTING PLATFORM DETAIL DETAIL VIEW
PL114 | 3/4" = 1'-0"

2 | POOL A - POOL WALL DETAIL VIEW
PL114 | 3/4" = 1'-0"

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CHICO AREA RECREATION & PARK DISTRICT

Project Number	23214
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PL114
POOL A - COMPETITION POOL DETAILS

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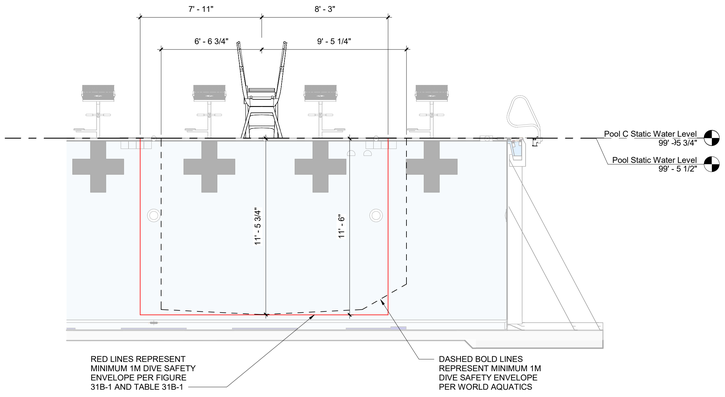
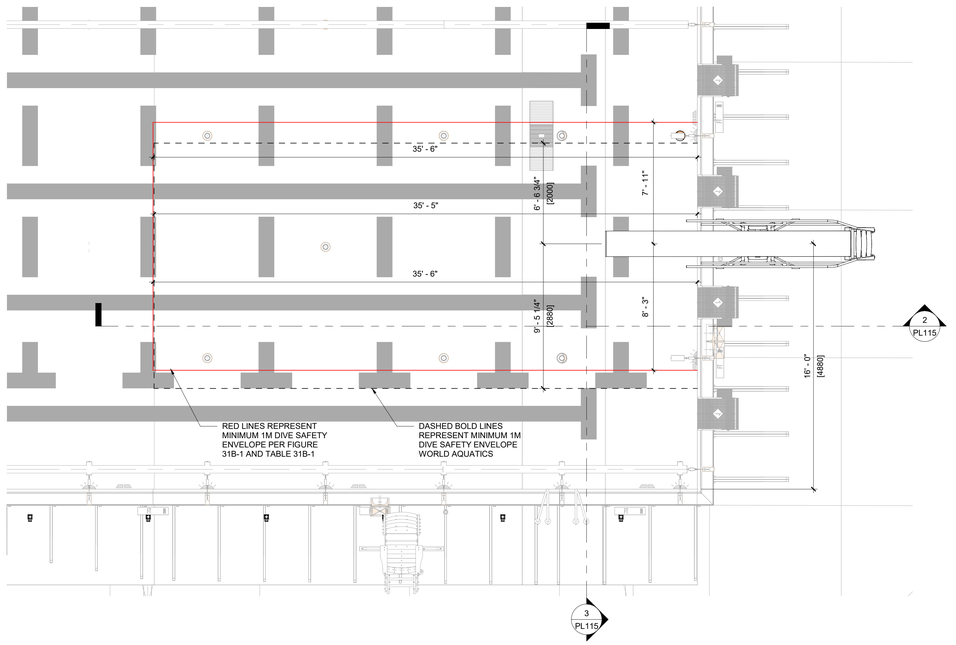
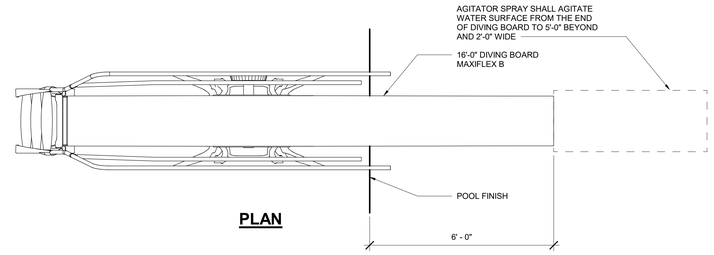
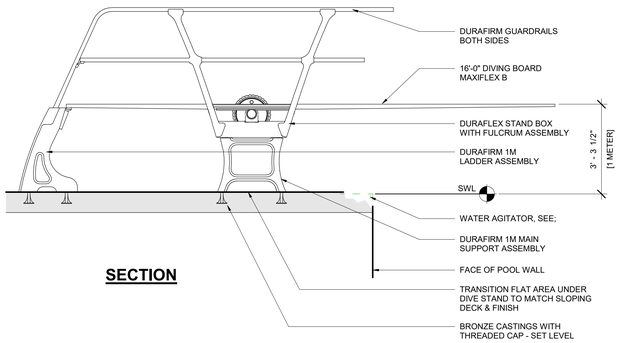


3 PL115 POOL A - 1M DIVING SAFETY ENVELOPE
SECTION VIEW
1/4" = 1'-0"



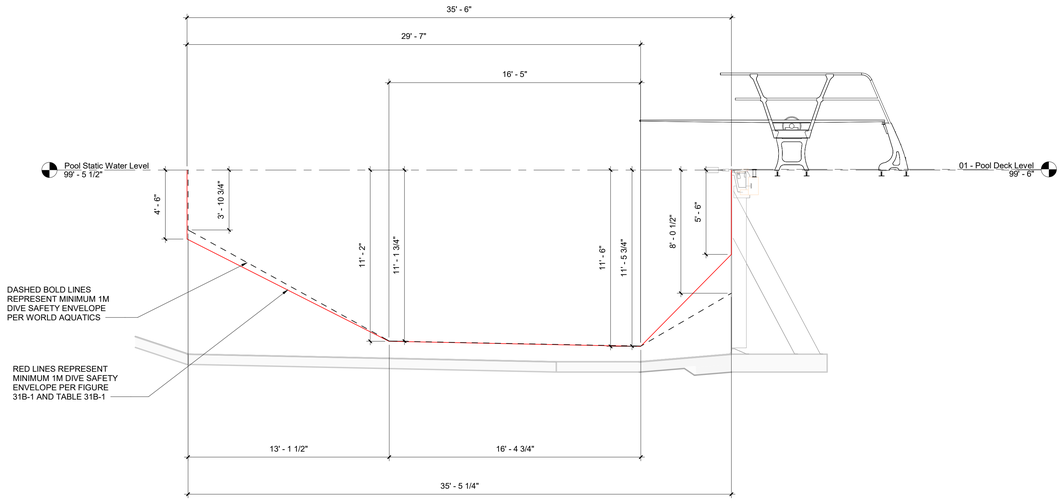
1 PL115 POOL A - 50M COMPETITION POOL - DIVING PLAN
PLAN VIEW
1/4" = 1'-0"





NOTES:
1. REFERENCE MANUFACTURER TEMPLATE PRIOR TO INSTALLING ANCHORS.
2. FLOOR ELEVATION WHERE FRONT & REAR DIVING STANDS ARE MOUNTED MUST BE LEVEL. FLOOR SLOPES REQUIRED IN THE DECK MUST BE MODIFIED AT THE STANDS.
3. A MINIMUM CLEAR ZONE OF 16'-5" ABOVE THE PLUMMET SHALL BE PROVIDED HORIZONTALLY FORWARD, AND 8'-3" TO THE SIDES AND REAR OF THE PLUMMET.

4 PL115 DIVING BOARD DETAIL - 1 METER STAND
DETAIL VIEW
1/2" = 1'-0"



2 PL115 POOL A - 1M DIVING SAFETY ENVELOPE
SECTION VIEW
1/4" = 1'-0"

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CHICO AREA RECREATION & PARK DISTRICT

Project Number	23214
Issue	PERMIT & BID SET
Date	2025-01-24

PL115
POOL A - DIVING PLAN, SECTIONS AND DETAIL

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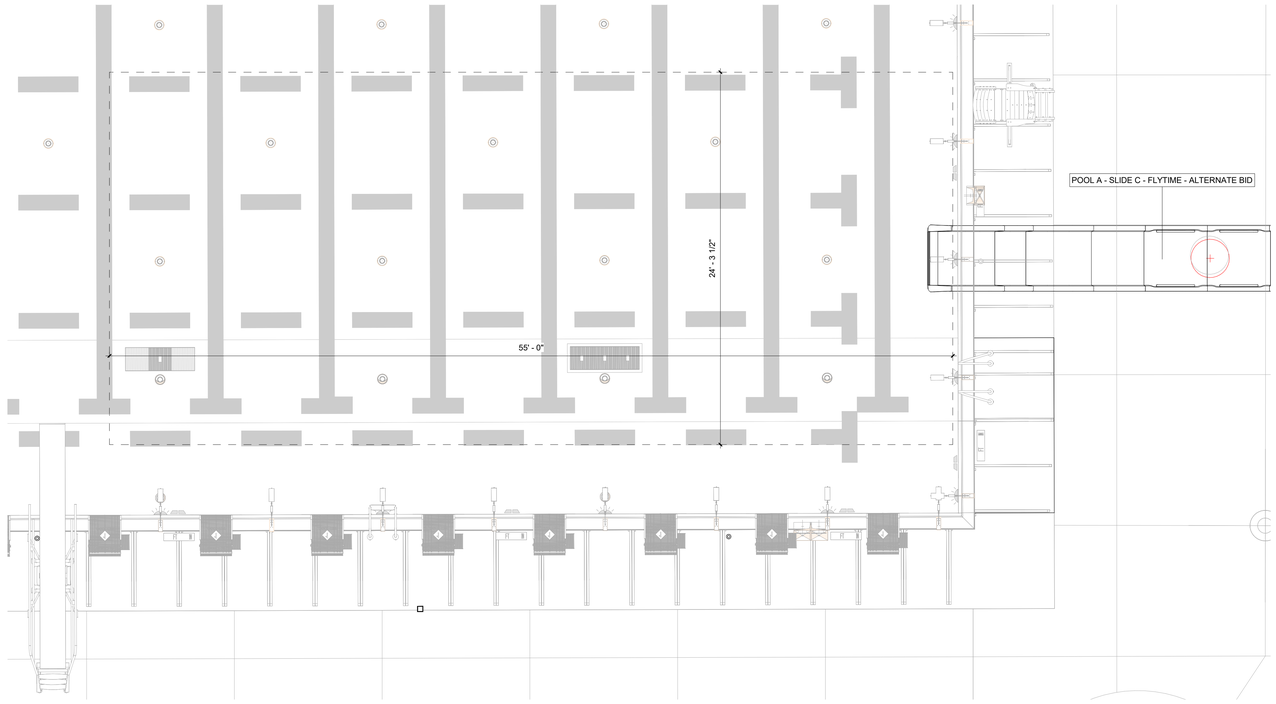


2 | POOL A - ENLARGED SAFETY ZONE PLAN VIEW
PL116 | 1/8" = 1'-0"

SCHEDULE - SLIDE DATA

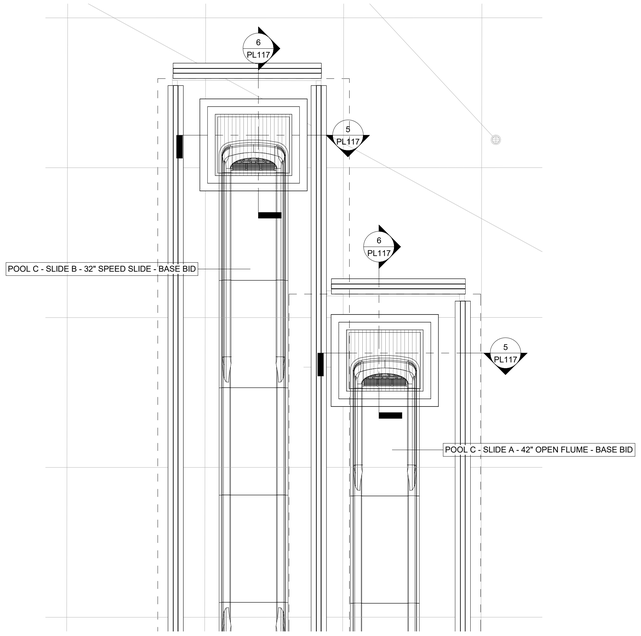
POOL ID	SLIDE INFORMATION					TOWER INFORMATION		
	SLIDE TYPE	MANUFACTURER	SLIDE LENGTH (FT)	SLIDE HEIGHT (FT)	SLIDE FLOW (GPM)	TOWER HEIGHT (FT)	TOWER MATERIAL	RAILING TYPE
POOL A	SLIDE C - FLYTIME - ALTERNATE BID	SPLASHTACULAR	103.33	35.00	200	35.00	GALVANIZED STEEL	FIBERGLASS
POOL C	SLIDE A - 42" OPEN FLUME - BASE BID	SPLASHTACULAR	286.58	35.00	1000	35.00	GALVANIZED STEEL	FIBERGLASS
POOL C	SLIDE B - 32" SPEED SLIDE - BASE BID	SPLASHTACULAR	178.51	35.00	500	35.00	GALVANIZED STEEL	FIBERGLASS

STANDARD SLIDE NOTES:

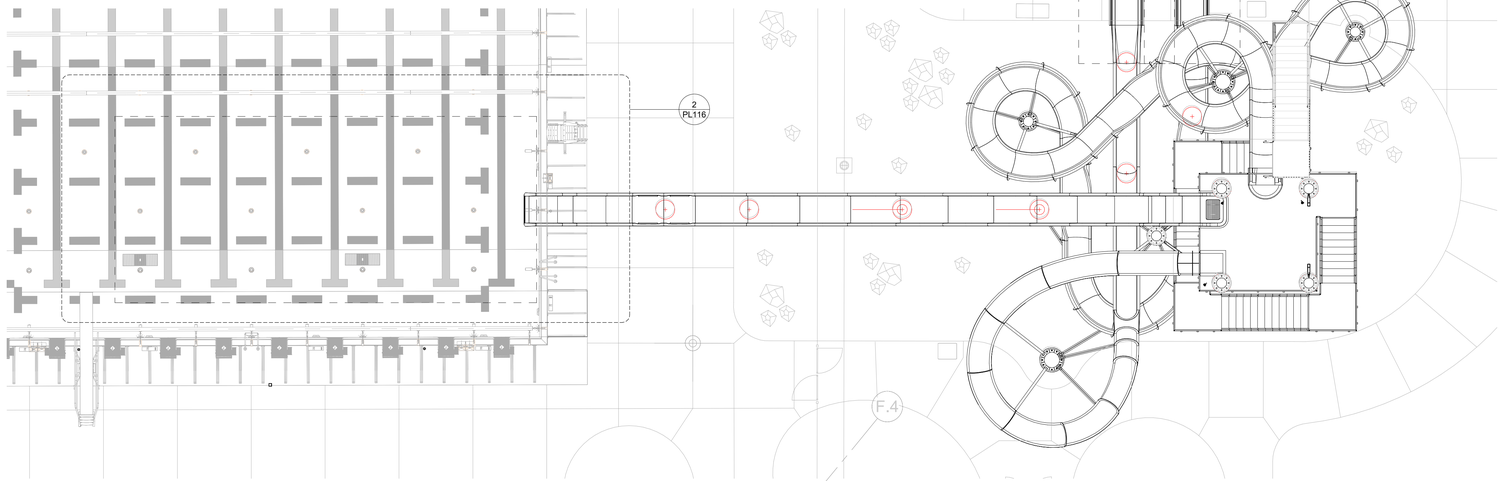
1. INCLUDE A LOCKING GATE AT ENTRY TO STAIR TOWER
2. PROVIDE DECK MOUNTED RAILING SYSTEM AROUND ANY OBSTRUCTION FROM SLIDE OR SUPPORT SYSTEM WHICH ARE LOWER THAN 7'-0" FROM DECK ELEVATION.
3. SEE SLIDE MANUFACTURER'S DRAWINGS FOR FOOTINGS AND PIERS TO BE INCLUDED IN THE BASE BID.

NOTE:

1. ALL ELEMENTS OF SLIDE DESIGN AND INSTALLATION MUST MEET THE REQUIREMENTS OF THE CALIFORNIA DIVISION OF OCCUPATION, SAFETY AND HEALTH (DOSH).
2. ALL SLIDES MUST BE DESIGNED AND INSTALLED TO MEET STATE AND LOCAL CODE REQUIREMENTS SET FORTH BY THE STATE OF CALIFORNIA AND LOCAL JURISDICTION.
3. THE SLIDE MANUFACTURER AND INSTALLING CONTRACTOR ARE RESPONSIBLE FOR ALL PERMITS FOR CONSTRUCTION AND FINAL OPERATION PERMITS AND ALL NECESSARY PHYSICAL SAMPLES, DESIGN CALCULATIONS AND DOCUMENTS, AND FINAL RIDE TESTING FOR SLIDES AS REQUIRED BY DOSH. THE STATE OF CALIFORNIA AND LOCAL HEALTH DEPARTMENTS.



3 | POOL C - ENLARGED RUNOUT SUMPS PLAN VIEW
PL116 | 1/4" = 1'-0"



1 | POOLS A AND C - SLIDES PLAN VIEW
PL116 | 1/8" = 1'-0"

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CHICO AREA RECREATION & PARK DISTRICT

Project Number	23214
Issue	PERMIT & BID SET
Date	2025-01-24

PL116
POOLS A AND C - SLIDE COMPLEX

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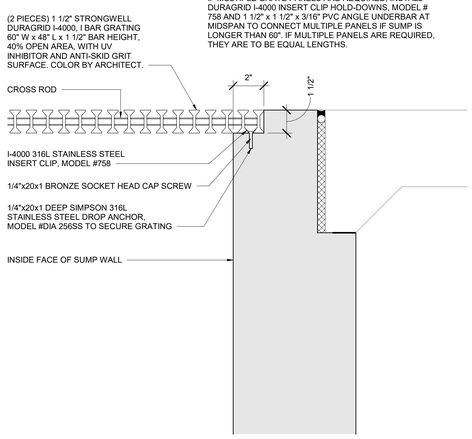
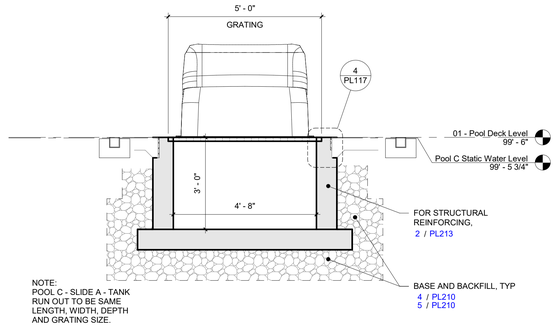
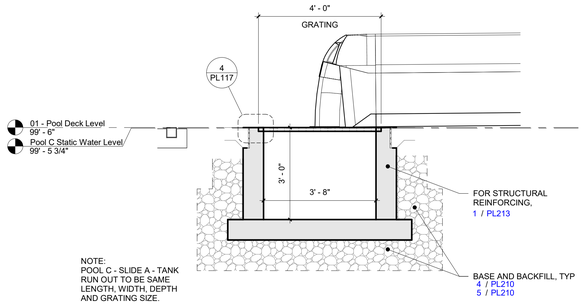
NOTE:
IF MULTIPLE GRATE PANELS ARE REQUIRED, INSTALL DURAGRID I-4000 INSERT CLIP HOLD-DOWNS, MODEL # 758 AND 1 1/2" x 1 1/2" x 3/16" PVC ANGLE UNDERBAR AT MIDSPAN TO CONNECT MULTIPLE PANELS IF SUMP IS LONGER THAN 60". IF MULTIPLE PANELS ARE REQUIRED, THEY ARE TO BE EQUAL LENGTHS.



4 | PL117 SUMP GRATING DETAIL VIEW
3" = 1'-0"



5 | PL117 POOL C - SLIDE B RUNOUT TANK SECTION VIEW
1/2" = 1'-0"

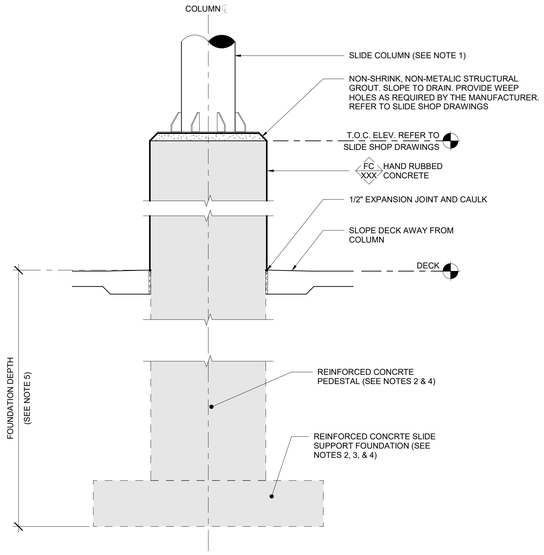


6 | PL117 POOL C - SLIDE B RUNOUT TANK SECTION VIEW
1/2" = 1'-0"

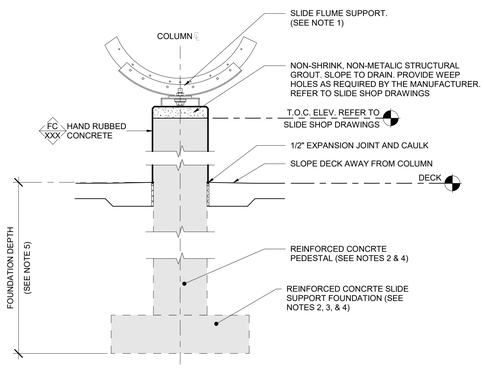
SLIDE COLUMN & FLUME SUPPORT NOTES:

1. DESIGN AND INSTALLATION OF SLIDE FIBERGLASS, SLIDE TOWER, AND STEEL SUPPORT SYSTEM SHALL BE THE RESPONSIBILITY OF THE SLIDE VENDOR.
2. STRUCTURAL DESIGN OF CONCRETE SLIDE SUPPORT PEDESTALS & FOUNDATIONS SHALL BE BY THE SLIDE VENDOR IN COMPLIANCE WITH THE PROJECT GEOTECHNICAL REPORT. DETAILS PROVIDED ARE REPRESENTATIVE OF SPREAD FOOTINGS, THEY ARE NOT SITE SPECIFIC, AND MAY NOT REFLECT THE FINAL ENGINEERED FOUNDATION TYPE. POOL CONTRACTOR SHALL REFER TO SLIDE VENDOR ENGINEER'S STRUCTURAL SHOP DRAWINGS FOR FINAL DETAILS & SPECIFICATIONS, INCLUDING PEDESTAL & FOUNDATION SIZES, ELEVATIONS AND REINFORCING STEEL.
3. SLIDE FOUNDATION DESIGN SHALL BE COORDINATED SUCH THAT SLIDE LOADS DO NOT SURCHARGE BUILDING, POOLS, POOL PIPING, OR OTHER NEARBY STRUCTURES.
4. GENERAL CONTRACTOR, POOL CONTRACTOR, & SLIDE VENDOR/INSTALLER SHALL COORDINATE SLIDE TOWER & SLIDE SUPPORT SYSTEM INSTALLATION, INCLUDING CONCRETE EMBEDS, REINFORCEMENT AND ANCHORS.
5. ALL EXCAVATION FOR SLIDE FOUNDATIONS SHALL BE PERFORMED BY THE POOL CONTRACTOR AND COORDINATED WITH THE GENERAL CONTRACTOR & SLIDE VENDOR/INSTALLER. SEE SLIDE VENDOR ENGINEER'S STRUCTURAL SHOP DRAWINGS FOR FOUNDATION DEPTHS AND SIZES.

1 | PL117 SLIDE COLUMN & FLUME SUPPORT NOTES DETAIL VIEW
NOT TO SCALE



2 | PL117 SLIDE COLUMN SUPPORT DETAIL VIEW
3/4" = 1'-0"



3 | PL117 SLIDE FLUME SUPPORT DETAIL VIEW
3/4" = 1'-0"

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23214
Issue	PERMIT & BID SET
Date	2025-01-24

PL117
POOLS A AND C - SLIDE DETAILS

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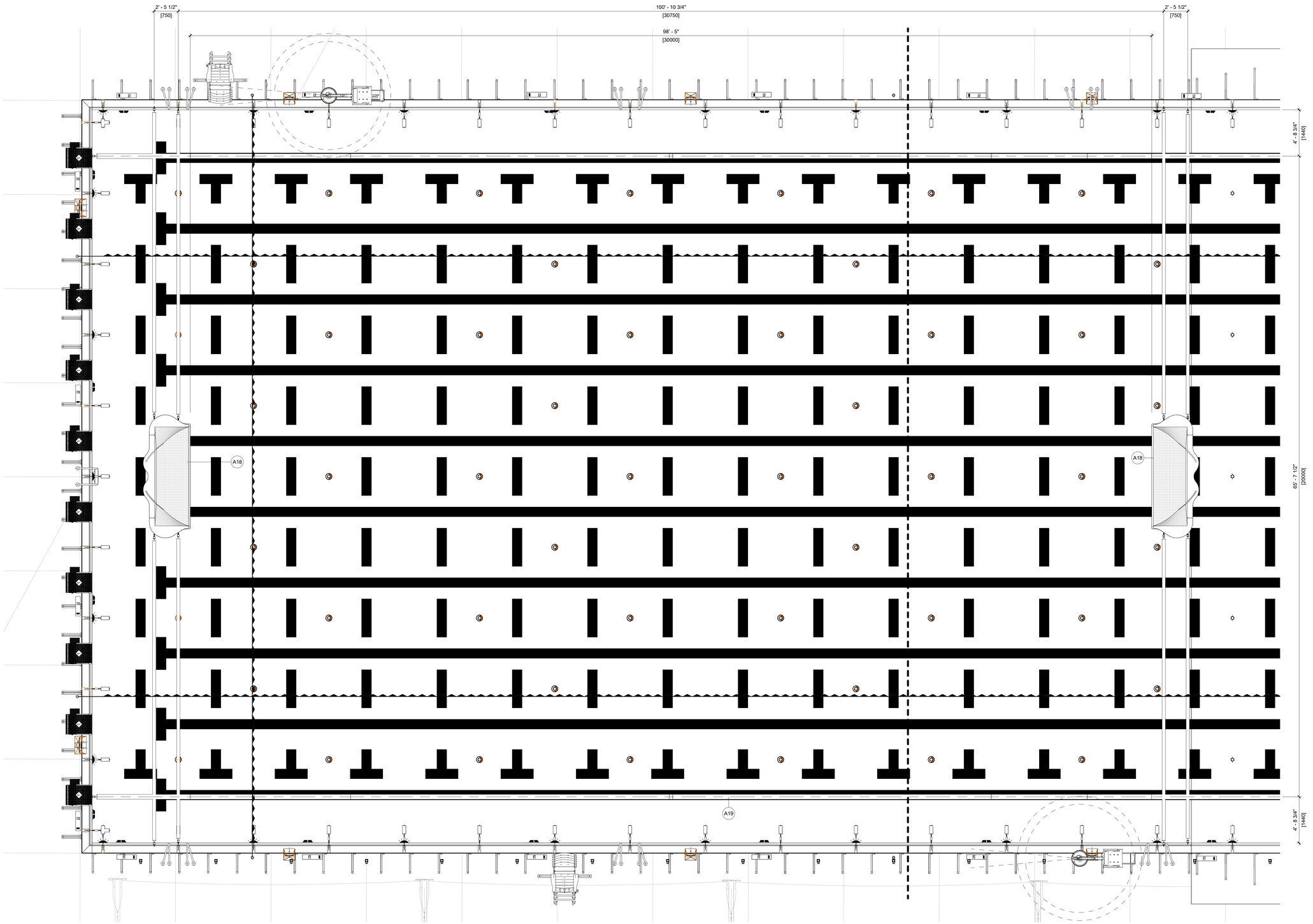

1 POOL A - MEN'S WATER POLO COURSE - ENLARGED PLAN VIEW
PL118 1/8" = 1'-0"

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG. BYTHIS MARK YOU CAN KNOW HOW TO SCALE

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CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23214
Issue	PERMIT & BID SET
Date	02/07/25

PL118
WATER POLO (MEN'S COURSE) PLAN

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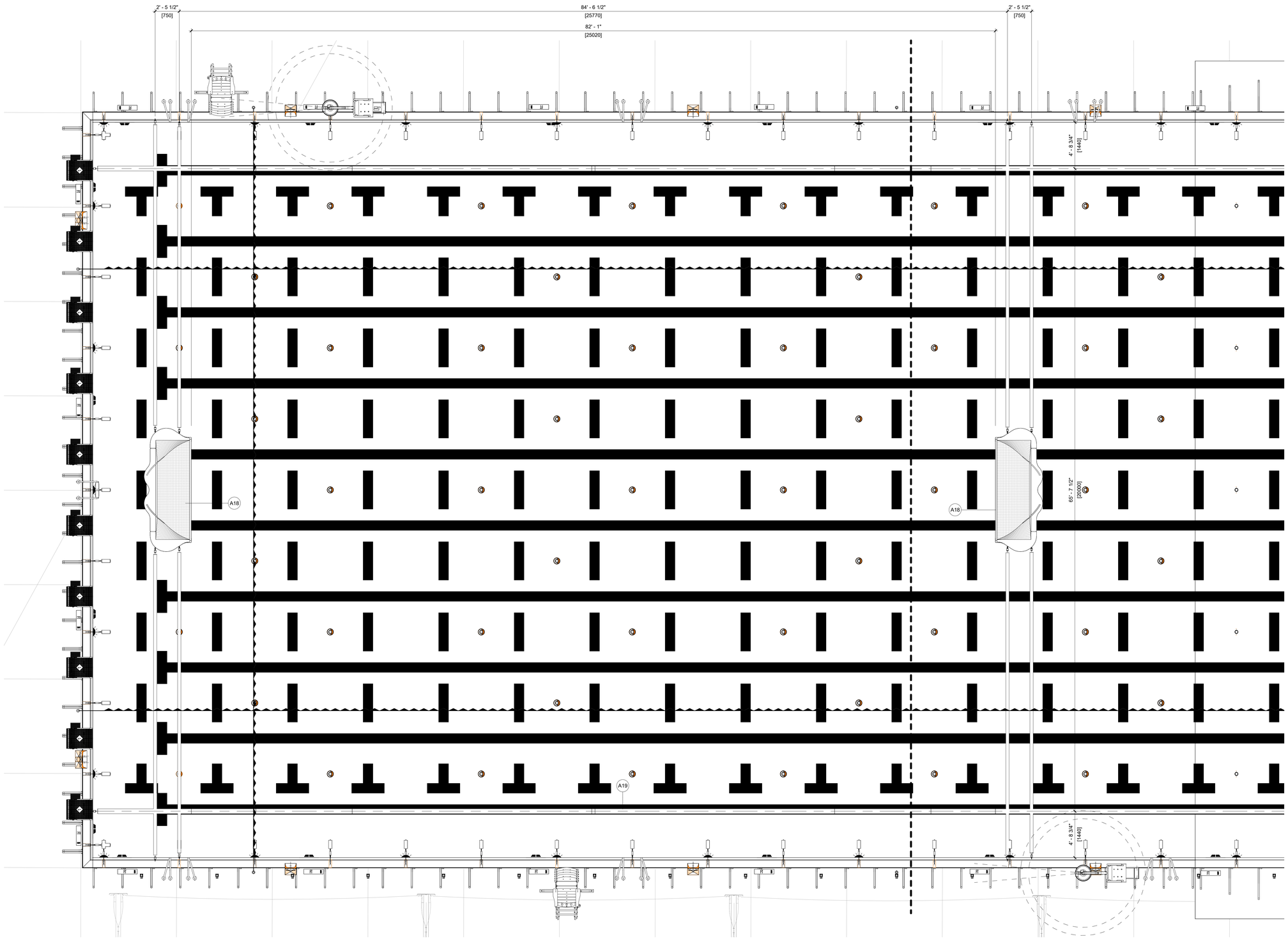

1 PL119 POOL A - WOMEN'S WATER POLO COURSE - ENLARGED PLAN VIEW
1/4" = 1'-0"

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CHICO AREA RECREATION & PARK DISTRICT

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Issue	PERMIT & BID SET
Date	02/07/25

PL119
WATER POLO (WOMEN'S COURSE) PLAN

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SCHEDULE - CUSTOM RAILGOODS - POOL B

POOL ID	EQUIPMENT ID	EQUIPMENT	QTY	MANUFACTURER	DESCRIPTION
B	01	HAND RAIL	4	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	CUSTOM FABRICATED, 316L SS, 1.50" OD x .120 WALL THICKNESS, 500 GRIT FINISH MIN.
B	02	RAMP HAND RAIL	2	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	CUSTOM FABRICATED, 316L SS, 1.50" OD x .120 WALL THICKNESS, 500 GRIT FINISH MIN.

DIMENSIONING NOTES:

1. ALL DIMENSIONS ARE SHOWN FROM POOL FINISH TO POOL FINISH (THIS SHEET)

SEE MYRTHA DRAWINGS FOR MYRTHA EQUIPMEMNT INCLUDING, BUT NOT LIMITED TO:

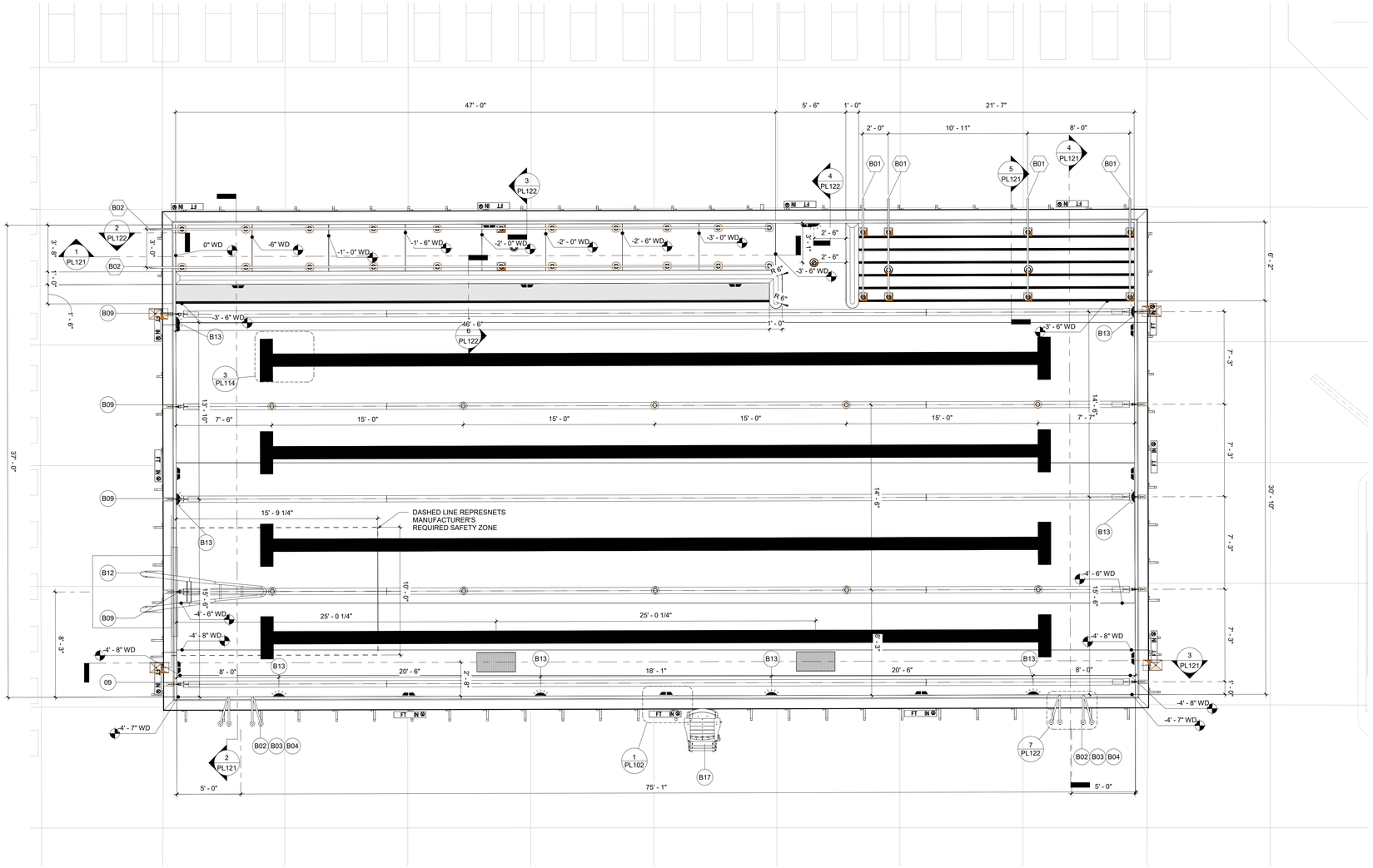
INWALL STEPS
LANE LINE ANCHORS
HANDRAIL ANCHORS
RAMP RAIL ANCHORS

SCHEDULE - BASIS OF DESIGN - POOL B

POOL ID	EQUIPMENT ID	EQUIPMENT	QTY	MANUFACTURER	DESCRIPTION
B	02	GRAB RAILS (PAIRS)	2	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	CALIFORNIA STYLE, 1.50" OD x .120 WALL THICKNESS, 500 GRIT FINISH MIN.
B	03	ESCUTCHEON PLATE	8	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	STAINLESS STEEL ROUND ESCUTCHEON FOR 1.50" O.D. RAILS
B	04	WEDGE ANCHOR	8	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	CAST BRONZE, 4-1/4" LONG, ACCEPTS 1.500" OD TUBING
B	09	LANE DIVIDERS	4	COMPETITOR SWIM PRODUCTS	6" WAVE QUELLING RACING LANE LINE, COLORS BY OWNER / ARCHITECT
B	12	AQUA ZIPN	1	AQUACLIMB	SEE DETAIL
B	13	LIGHT & NICHE	9	HAYWARD	J & J ELECTRONICS, 120 VOLT PUREWHITE - PRO HIGH OUTPUT LED POOL LAMP, COOL WHITE, 500 WATT EQUIVALENT, 4,588 LUMEN OUTPUT. INSTALL WITH MYRTHA APPROVED LIGHT NICHE - UCL UNDERWATER LARGE VINYL JIFFY NICHE.
B	15	THERMAL POOL COVER	5	SPECTRUM	15' WIDE x 37" LONG, PROVIDE CUSTOM COVER TO FIT AROUND THE ADA RAMP RAILING AND STAIRCASE RAILINGS, COVER SHOULD COVERS ACROSS THE 37' POOL WIDTH
B	17	LIFEGUARD CHAIR	1	TAILWIND, KEIFER, SPECTRUM AQUATICS, SR SMITH OR APPROVED EQUAL	MODEL LGS10 INCLUDE CUP HOLDER AND UMBRELLA HOLDER. RECYCLED PLASTIC WITH 304 SS HARDWARE, COLOR BY OWNER/ARCHITECT. (OWNER'S SAFETY CONSULTANT TO SPECIFY LOCATION.)

POOL B-PROGRAM POOL DATA

DESCRIPTION	QTY	UNITS		
POOL PERIMETER	778	FEET		
WATER SURFACE AREA	2,722	SQUARE FEET		
POOL WATER TEMPERATURE	85	°F		
POOL VOLUME	76,932	GALLONS		
SURGE TANK OPERATING VOLUME	2,213	GALLONS		
TOTAL VOLUME OF WATER	79,145	GALLONS		
CIRCULATION RATE	440	GPM		
TURNOVER/VOLUME/FLOW	180 MIN.	79,145 GAL.	440	GPM
FILTRATION RATE	1.15	GPM/FT²		
FILTER DRAIN RATE	300	GPM		
SURGE FACTOR	1.11	GAL/SQFT		
AVAILABLE SURGE CAPACITY IN SURGE TANK	3028	GALLONS		
INTENDED USE	WARM UP			



1 PL120 POOL B - PROGRAM POOL PLAN VIEW
3/4" = 1'-0"

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Revision Schedule

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Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23214
Issue	PERMIT & BID SET
Date	2025-01-24

PL120
POOL B - PROGRAM POOL PLAN

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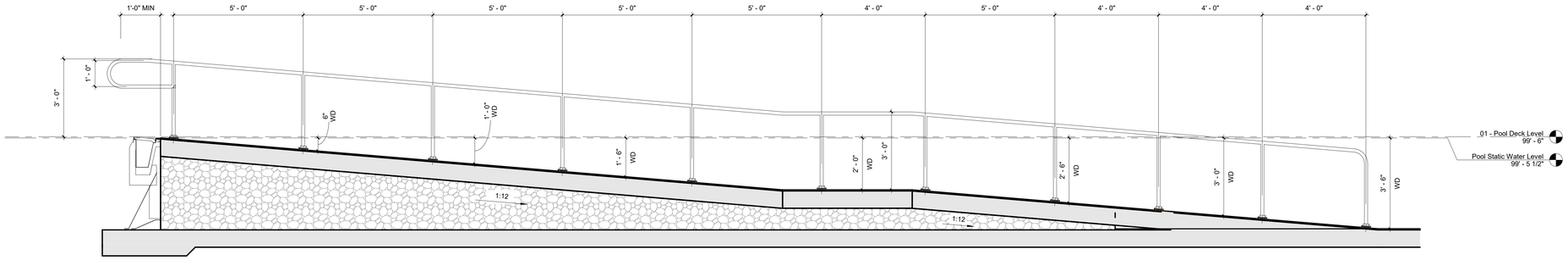
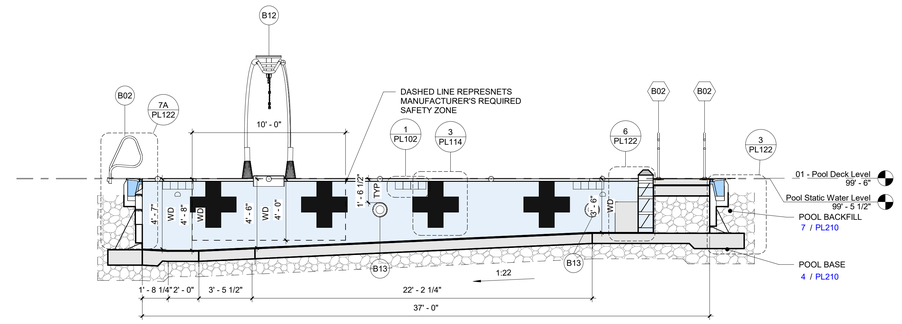
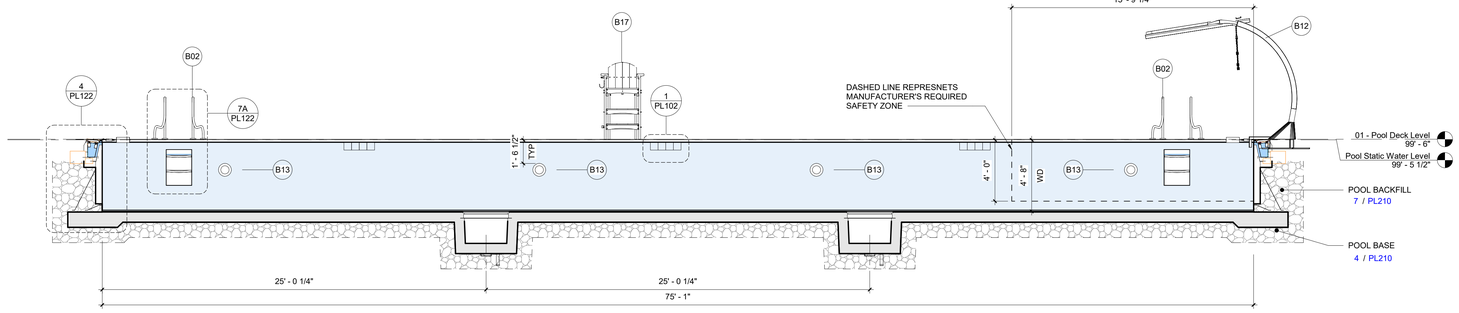


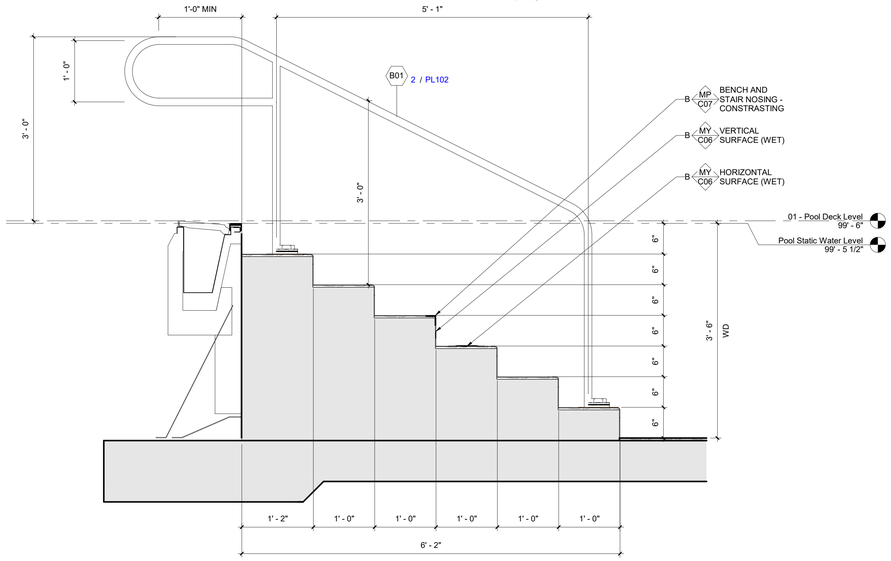
1 | POOL B - PROGRAM POOL SECTION VIEW
PL121 1/2" = 1'-0"



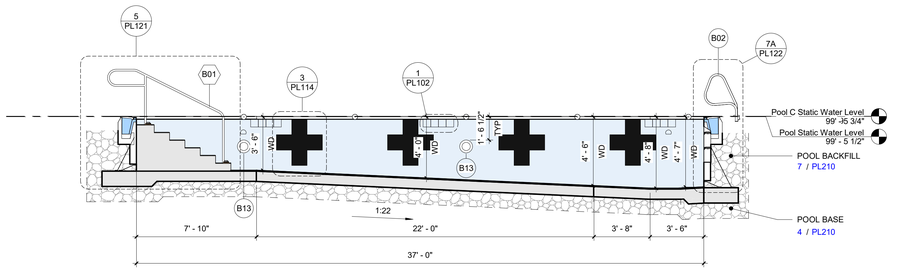
2 | POOL B - PROGRAM POOL SECTION VIEW
PL121 1/4" = 1'-0"



3 | POOL B - PROGRAM POOL SECTION VIEW
PL121 1/4" = 1'-0"



5 | POOL B - PROGRAM POOL STAIRS SECTION VIEW
PL121 1" = 1'-0"



4 | POOL B - PROGRAM POOL SECTION VIEW
PL121 1/4" = 1'-0"

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CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23214
Issue	PERMIT & BID SET
Date	2025-01-24

PL121
POOL B - PROGRAM POOL SECTIONS

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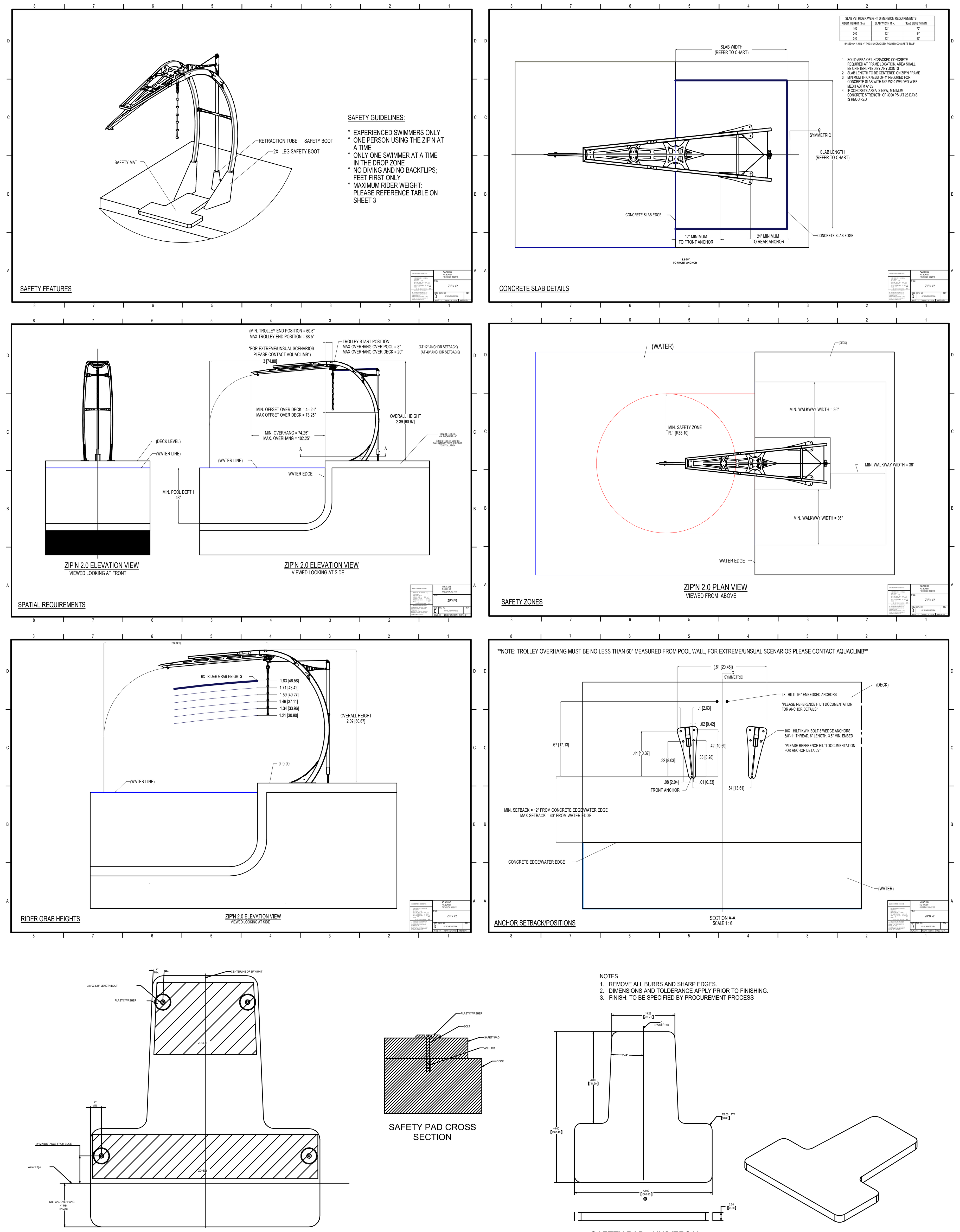
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAGE SIZE

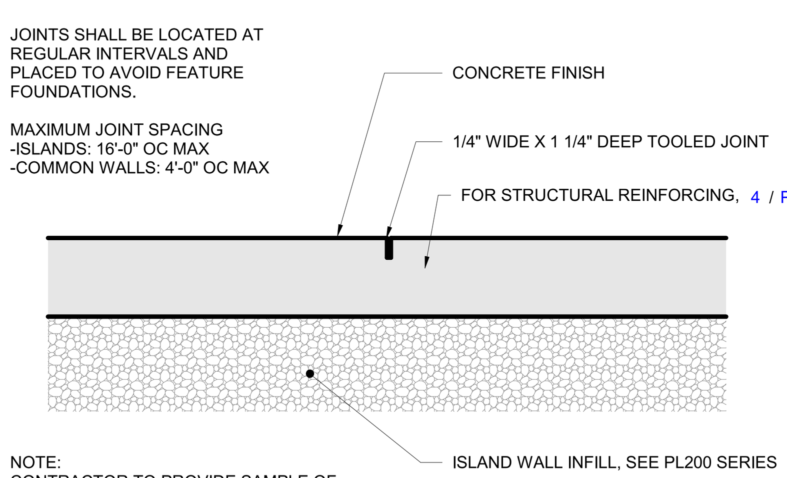


SAFETY PAD INSTALL INSTRUCTIONS
1.CENTER PAD IN MIDDLE OF ZIP'N UNIT.
2.ALIGN PAD OVER EDGE OF WATER UNTIL PAD HAS 4"-6" OVERHANG INTO THE WATER.
3.MARK THE LOCATION OF 2x EVENLY SPACED ANCHORS IN ZONE 1 AND IN ZONE 2 BY DRILLING THROUGH PAD AND INTO CONCRETE.
4.DRILL HOLES INTO THE CONCRETE USING A 1/2" MASONARY DRILL BIT.
5.HOLE DEPTH MUST BE A MINIMUM OF 1-9/16" DEEP.
6.INSTALL THE ANCHORS USING THE PROVIDE HAND SETTING TOOL. ANCHORS SHOULD BE FLUSH WITH CONCRETE
7.FASTEN PAD TO CONCRETE ANCHORS USING PROVIDED PLASTIC WASHERS AND HARDWARE. SEE CROSS-SECTION ABOVE
8.DUE TO THE VARIANCES IN POOL GUTTER SYSTEMS, ADDITIONAL ANCHORS MAY BE REQUIRED TO PROPERLY SECURE THE SAFETY PAD TO THE POOL DECK IN SOME CIRCUMSTANCES. IF THERE IS ANY CONCERNS OR QUESTIONS WITH YOUR PERSONAL INSTALLATION, PLEASE CONTACT AQUACLIMB AT 800-956-6692 TO ORDER ADDITIONAL ANCHORS.
BE SURE TO USE ANTI-SEIZE LUBRICATION ON ALL BOLTS
IMPROPER INSTALLATION OF THE SAFETY PAD CAN RESULT IN SERIOUS BODILY INJURY, CALL AQUACLIMB IMMEDIATELY WITH ANY QUESTIONS ON INSTALLATION. 800-956-6692

8 PL122 AQUAZIPN CUTSHEETS
DETAIL VIEW
3/16" = 1'-0"

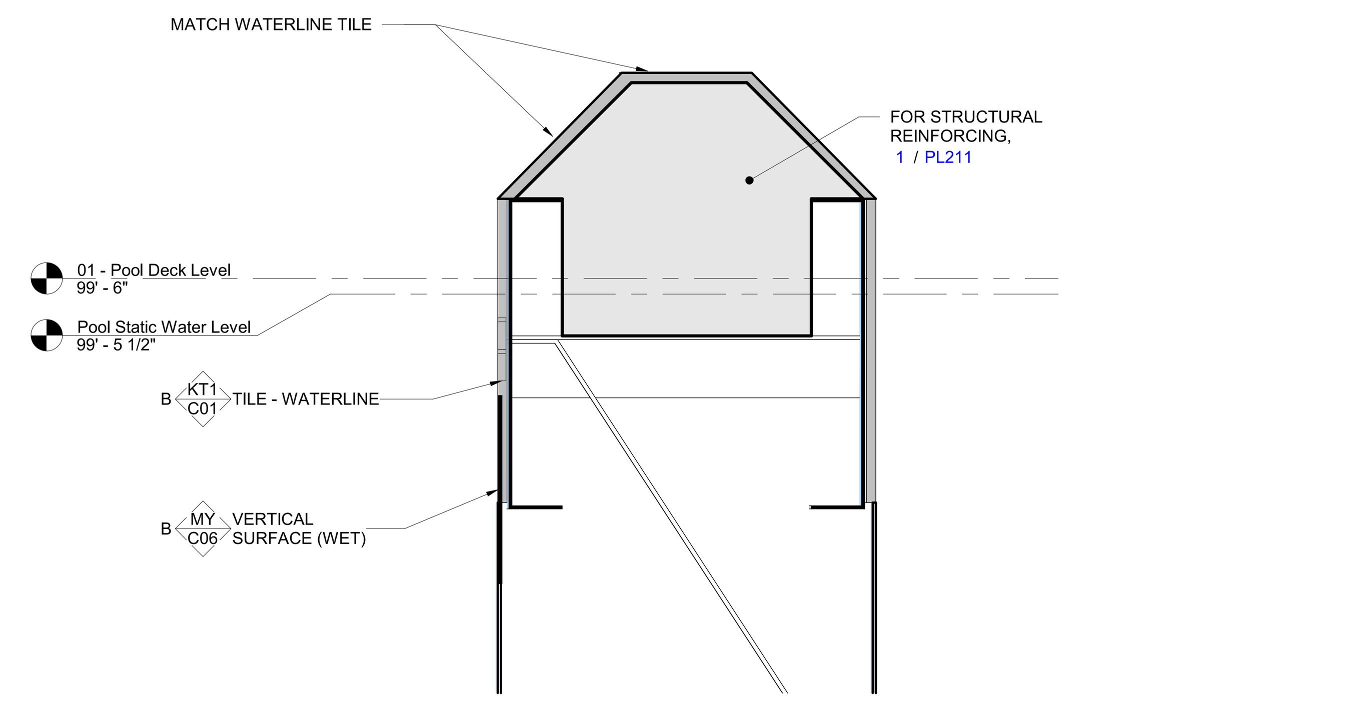
JOINTS SHALL BE LOCATED AT REGULAR INTERVALS AND PLACED TO AVOID FEATURE FOUNDATIONS.

MAXIMUM JOINT SPACING
-ISLANDS: 16'-0" OC MAX
-COMMON WALLS: 4'-0" OC MAX

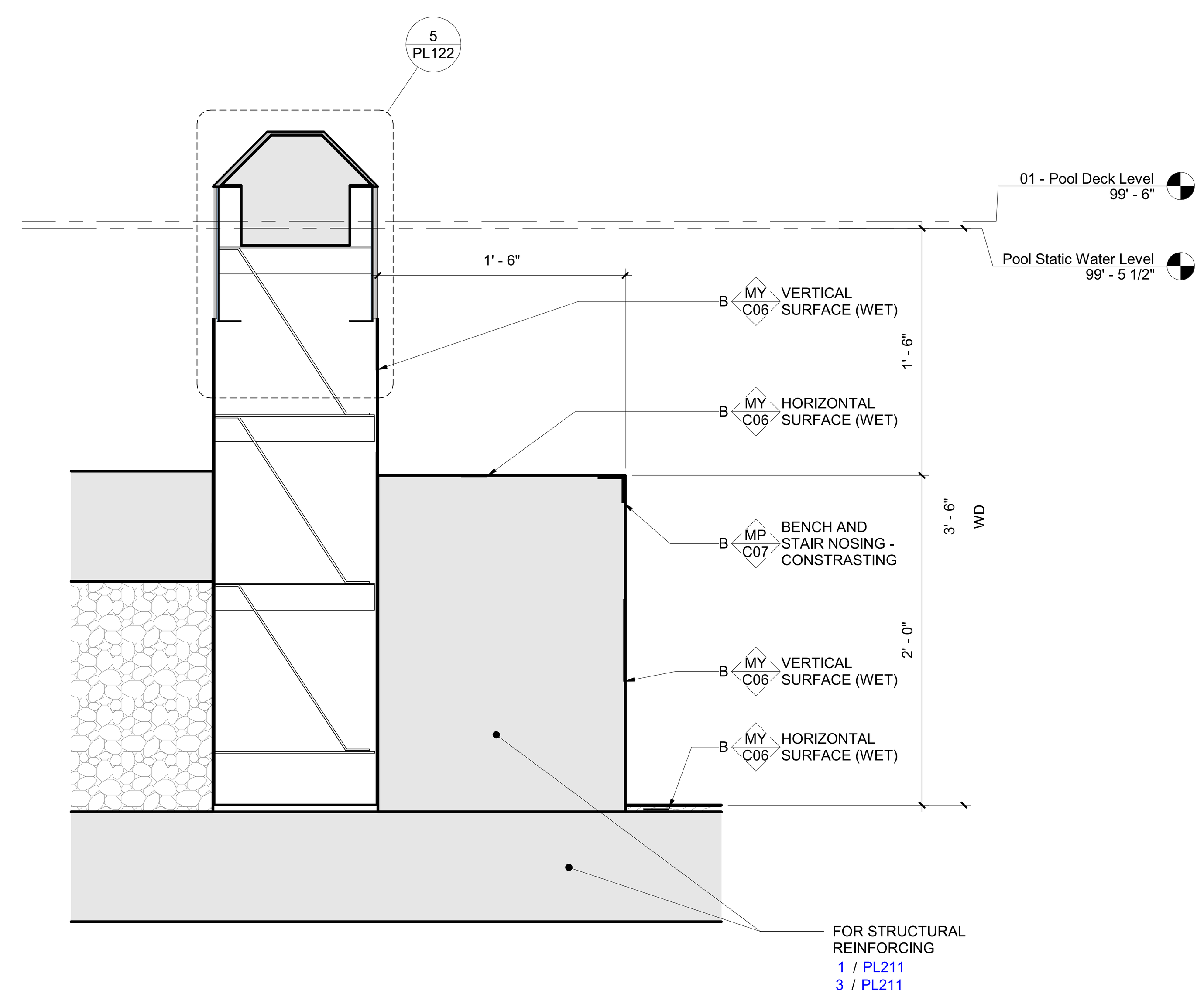


NOTE:
CONTRACTOR TO PROVIDE SAMPLE OF FINISH FOR OWNER'S APPROVAL.

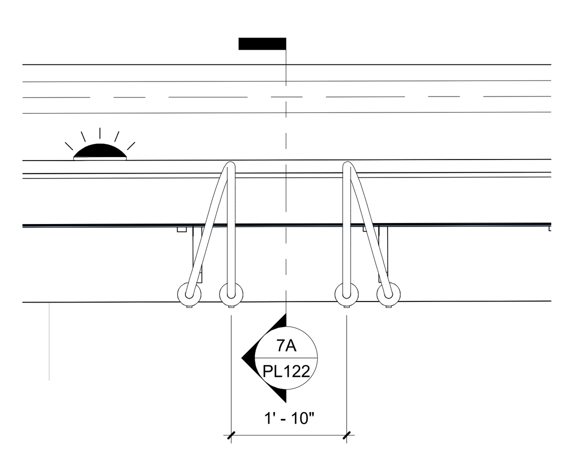
9 PL122 RIVER ISLAND TOP OF WALL CONTROL JOINT
DETAIL VIEW
1 1/2" = 1'-0"



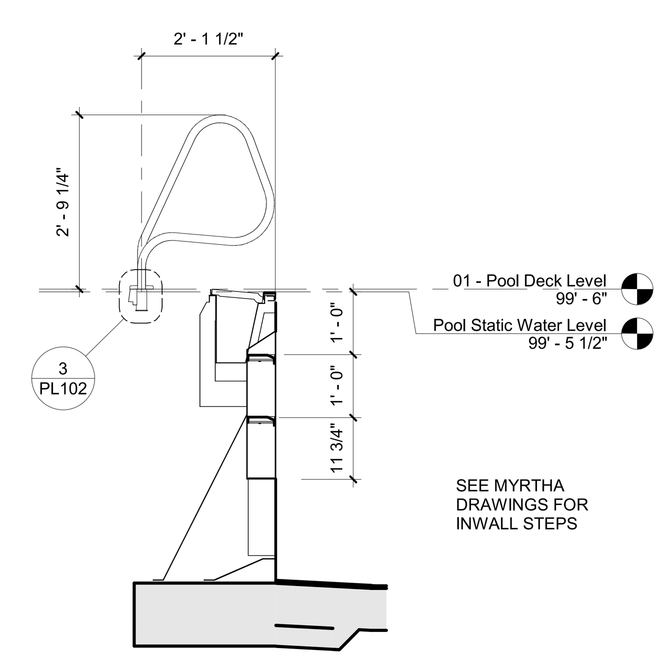
5 PL122 COMMON WALL - TOP OF WALL
DETAIL VIEW
3" = 1'-0"



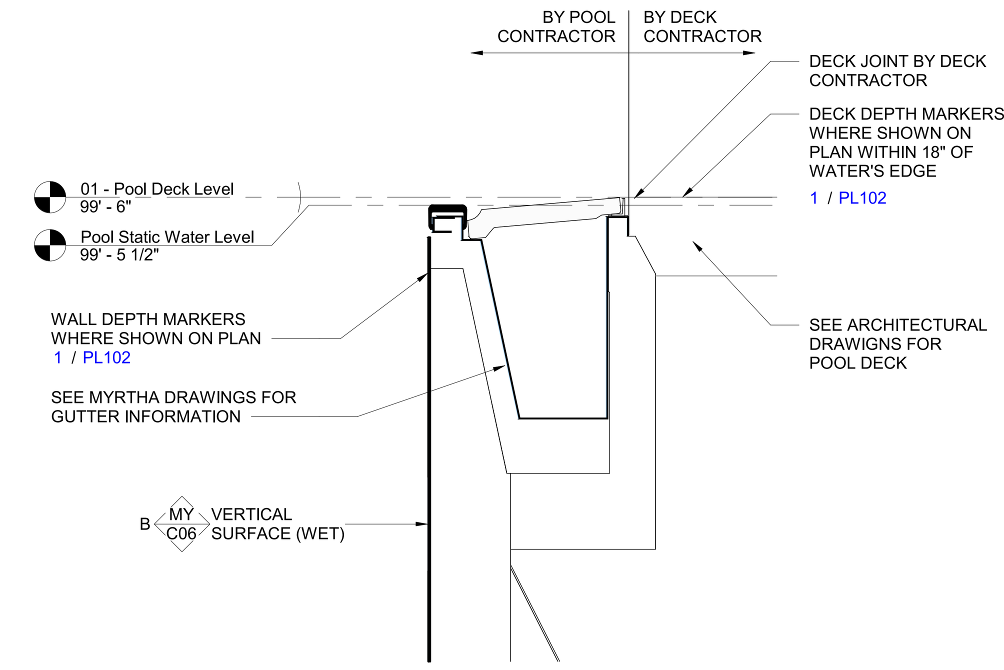
6 PL122 POOL B - COMMON WALL
DETAIL VIEW
1 1/2" = 1'-0"



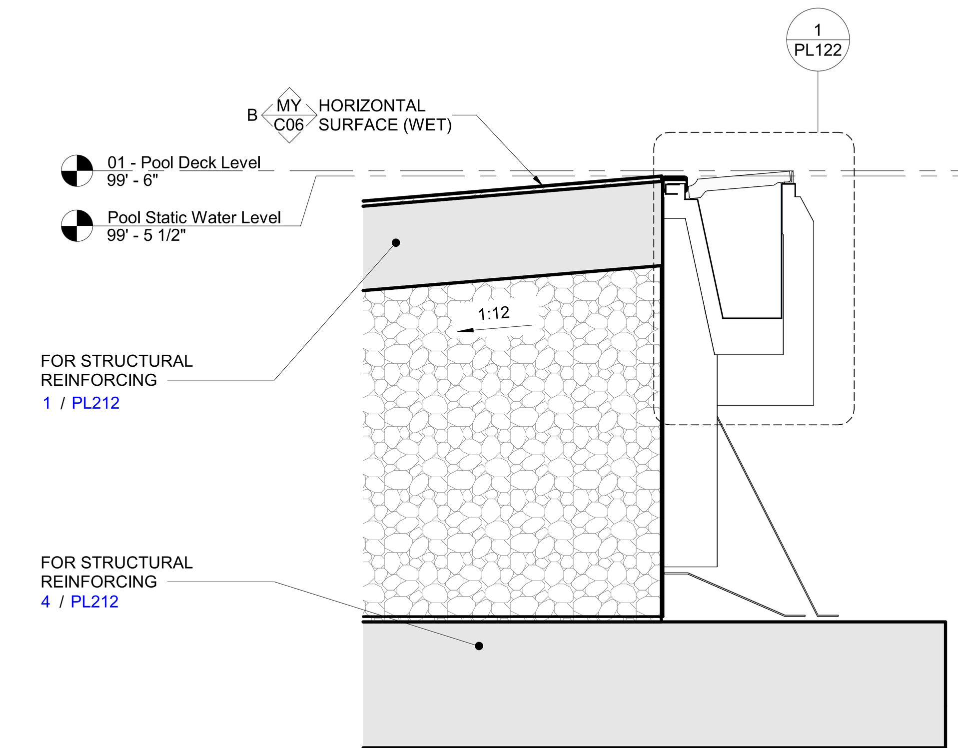
7 PL122 POOL B - PROGRAM POOL GRAB RAILS
PLAN VIEW
1/2" = 1'-0"



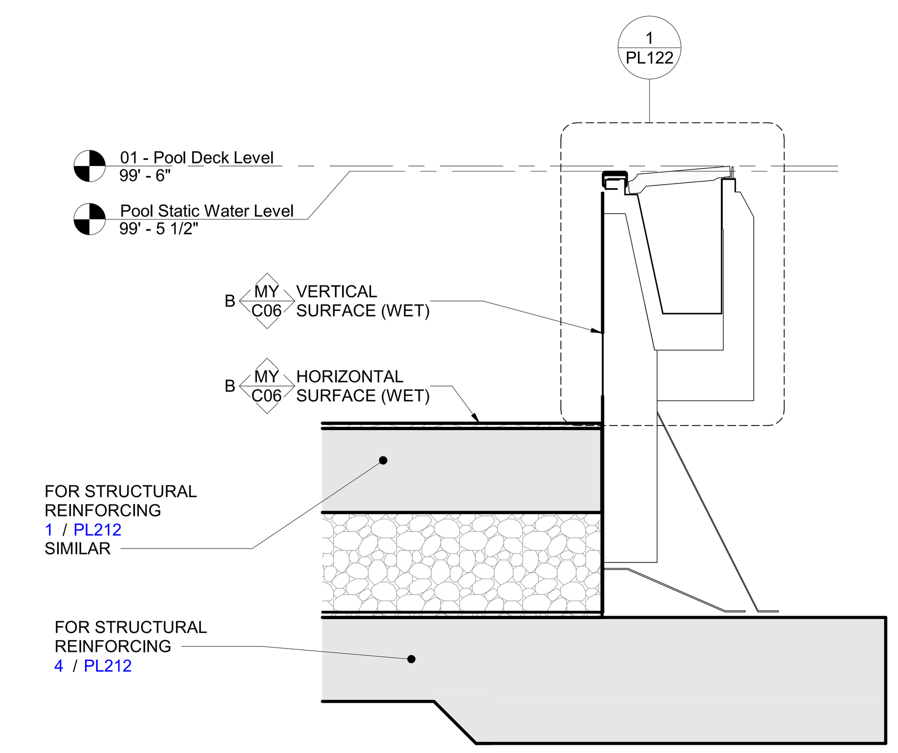
7A PL122 POOL B - GRAB RAIL AND INWALL STEPS
SECTION VIEW
1/2" = 1'-0"



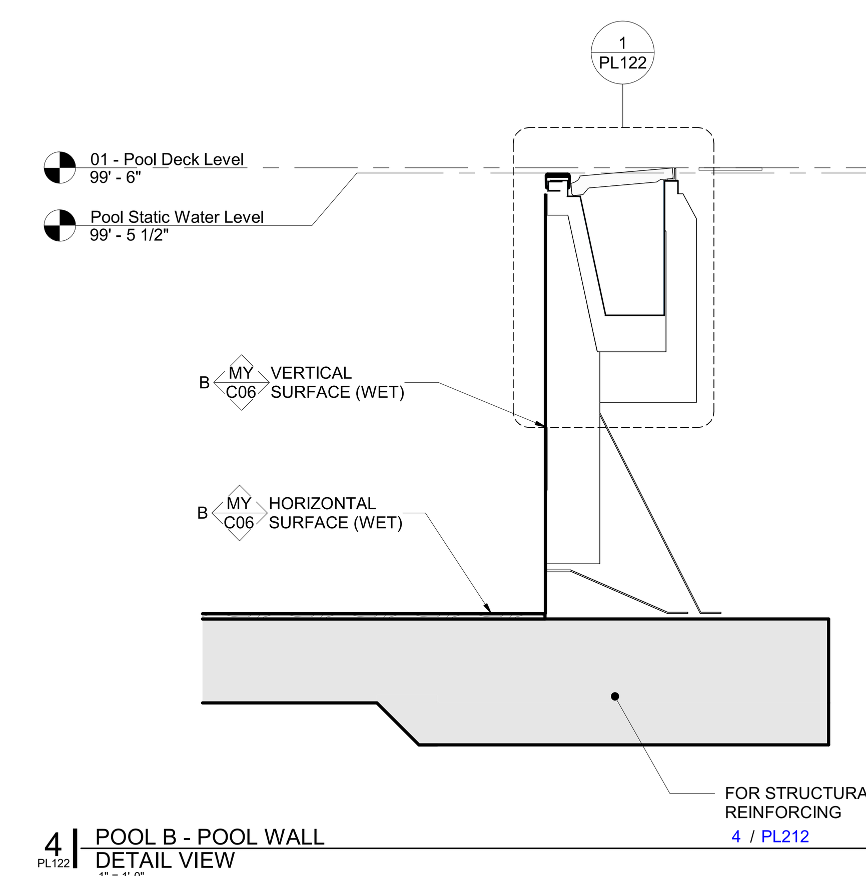
1 PL122 TOP OF WALL
DETAIL VIEW
1 1/2" = 1'-0"



2 PL122 POOL B - 0" WD POOL WALL
DETAIL VIEW
1" = 1'-0"



3 PL122 POOL B - POOL WALL
DETAIL VIEW
1" = 1'-0"



4 PL122 POOL B - POOL WALL
DETAIL VIEW
1" = 1'-0"

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CHICO AREA RECREATION & PARK DISTRICT

Project Number	23214
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PL122
POOL B - PROGRAM POOL DETAILS

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SCHEDULE - WATER FEATURE - POOL C

POOL ID	FEATURE ID	FEATURE	QTY	MANUFACTURER	DESCRIPTION	GPM (ea)	GPM (Total)
C	F01	WATER GEYSER	5	CUSTOM	FIELD FABRICATED WATER GEYSER	15	75
C	F02	WATER GEYSER	2	CUSTOM	FIELD FABRICATED WATER GEYSER ON ISLAND	15	30
C	F03	SPRAY FEATURE	1	VORTEX	VOR 7251 - CASCADE RAINFOREST - SAFESWAP No 2	20	20
C	F04	SPRAY TUNNEL	2	VORTEX	VOR 0304 - WATER TUNNEL N°1	40	80
C	F05	SPRAY FEATURE	1	VORTEX	VOR 7605 - RIO SPLASH TRI - SAFESWAP No 1	15	15
C	F06	AQUATIC PLAY FEATURES	1	VORTEX	VOR 7244 - VORTEX RIO CURTAIN - SAFESWAP No 2	90	90
C	F07	PLAY STRUCTURE	1	VORTEX	ELEVATION L5 - WITH (4) WATER ANCHORS, (5) DECKS, (17) WATER FEATURES AND (1) WATERSLIDE	630	630

SCHEDULE - BASIS OF DESIGN - POOL C

POOL ID	EQUIPMENT ID	EQUIPMENT	QTY	MANUFACTURER	DESCRIPTION
C	01	POOL LIFT	1	SR SMITH, AQUA CREEK, OR EQUAL	STANDARD ANCHORED, ROTATIONAL POOL LIFT, WITH 400 LB MINIMUM LIFTING CAPACITY. MUST MEET ALL APPLICABLE ADA REQUIREMENTS, WHILE MAINTAINING REQUIRED DECK CLEARANCE. PACKAGE TO INCLUDE ARMRESTS, ANCHOR, LIFT COVER, BATTERY CHARGER, AND CADDY
C	02	GRAB RAILS (PAIRS)	2	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	CALIFORNIA STYLE, 1.50" OD x .120 WALL THICKNESS, 500 GRIT FINISH MIN.
C	03	ESCUTCHEON PLATE	8	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	STAINLESS STEEL ROUND ESCUTCHEON FOR 1.50" O.D. RAILS
C	04	WEDGE ANCHOR	8	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	CAST BRONZE, 4-1/4" LONG, ACCEPTS 1.500" OD TUBING
C	13	BASKETBALL HOOP	1	SR SMITH	STAINLESS STEEL BASKETBALL HOOP WITH ROCKSOLID ANCHOR
C	17	LIFEGUARD CHAIR	6	TAILWIND, KEIFER, SPECTRUM AQUATICS, SR SMITH OR APPROVED EQUAL	MODEL LG510 INCLUDE CUP HOLDER AND UMBRELLA HOLDER. RECYCLED PLASTIC WITH 304 SS HARDWARE, COLOR BY OWNER/ARCHITECT. (OWNER'S SAFETY CONSULTANT TO SPECIFY LOCATION.)

SCHEDULE - CUSTOM RAILGOODS - POOL C

POOL ID	EQUIPMENT ID	EQUIPMENT	QTY	MANUFACTURER	DESCRIPTION
C	01	HAND RAIL	7	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	CUSTOM FABRICATED, 316L SS, 1.50" OD x .120 WALL THICKNESS, 500 GRIT FINISH MIN.

POOL C-LEISURE POOL DATA

DESCRIPTION	QTY	UNITS		
POOL PERIMETER	778	FEET		
WATER SURFACE AREA	7,351	SQUARE FEET		
POOL WATER TEMPERATURE	86	°F		
POOL VOLUME	127,189	GALLONS		
SLIDE STORAGE VOLUME	3,268	GALLONS		
SURGE TANK OPERATING VOLUME	9,417	GALLONS		
TOTAL VOLUME OF WATER	139,874	GALLONS		
CIRCULATION RATE	1,435	GPM		
TURNOVER/VOLUME/FLOW	60 MIN.	32,338 GAL.	539	GPM
TURNOVER/VOLUME/FLOW	120 MIN.	107,536 GAL.	896	GPM
FILTRATION RATE	1.18	GPM/FT²		
FILTER DRAIN RATE	300	GPM		
SURGE FACTOR	1.13	GAL/SQFT		
AVAILABLE SURGE CAPACITY IN SURGE TANK	8278	GALLONS		
INTENDED USE	LEISURE			

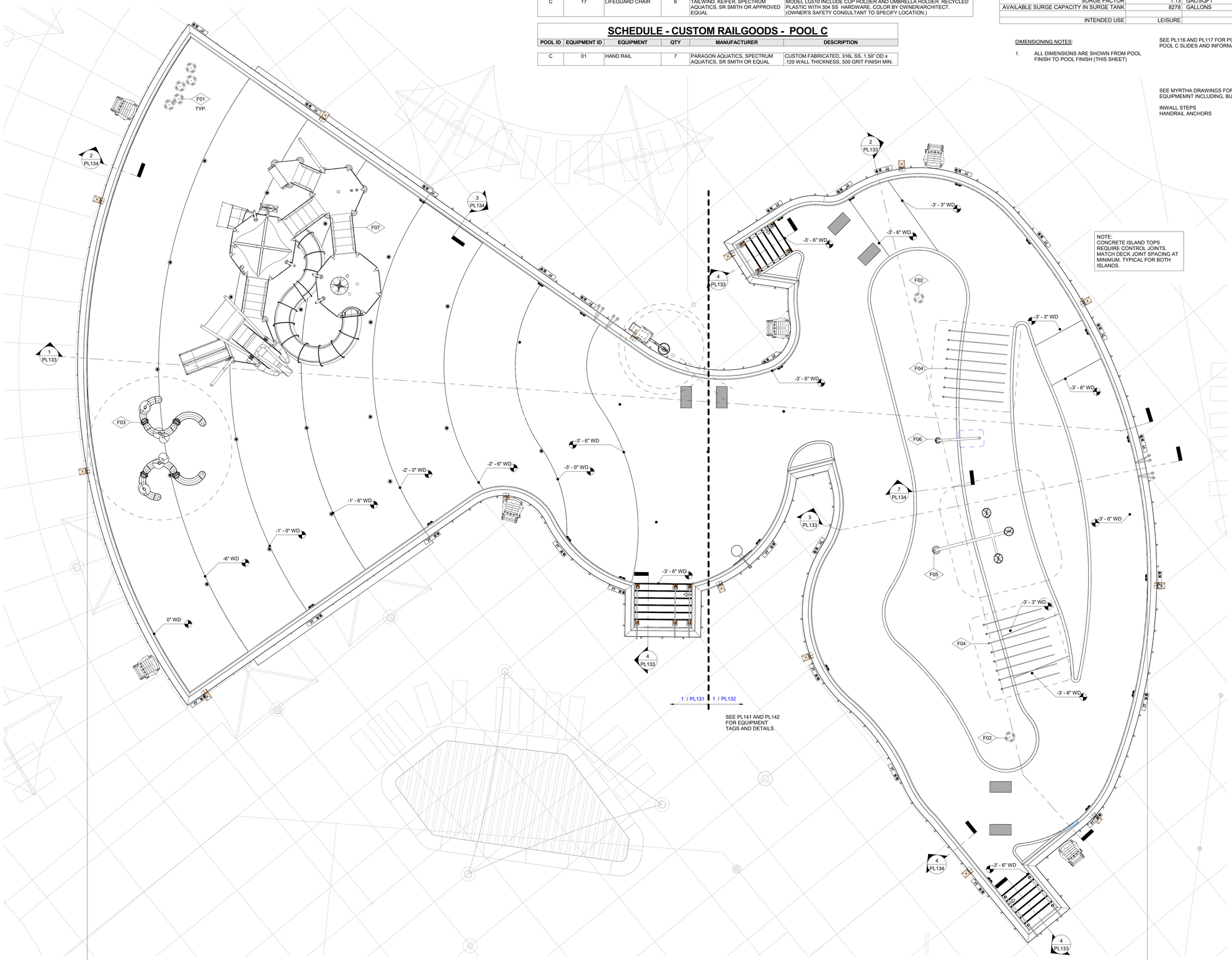
DIMENSIONING NOTES:

1. ALL DIMENSIONS ARE SHOWN FROM POOL FINISH TO POOL FINISH (THIS SHEET)

SEE PL116 AND PL117 FOR POOL A AND POOL C SLIDES AND INFORMATION

SEE MYRTHA DRAWINGS FOR MYRTHA EQUIPMEMNT INCLUDING, BUT NOT LIMITED TO:

INWALL STEPS
HANDRAIL ANCHORS



1 PL130 POOL C - LEISURE POOL PLAN VIEW
3/16" = 1'-0"

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23214
Issue	PERMIT & BID SET
Date	2025-01-24

PL130
POOL C - LEISURE POOL PLAN

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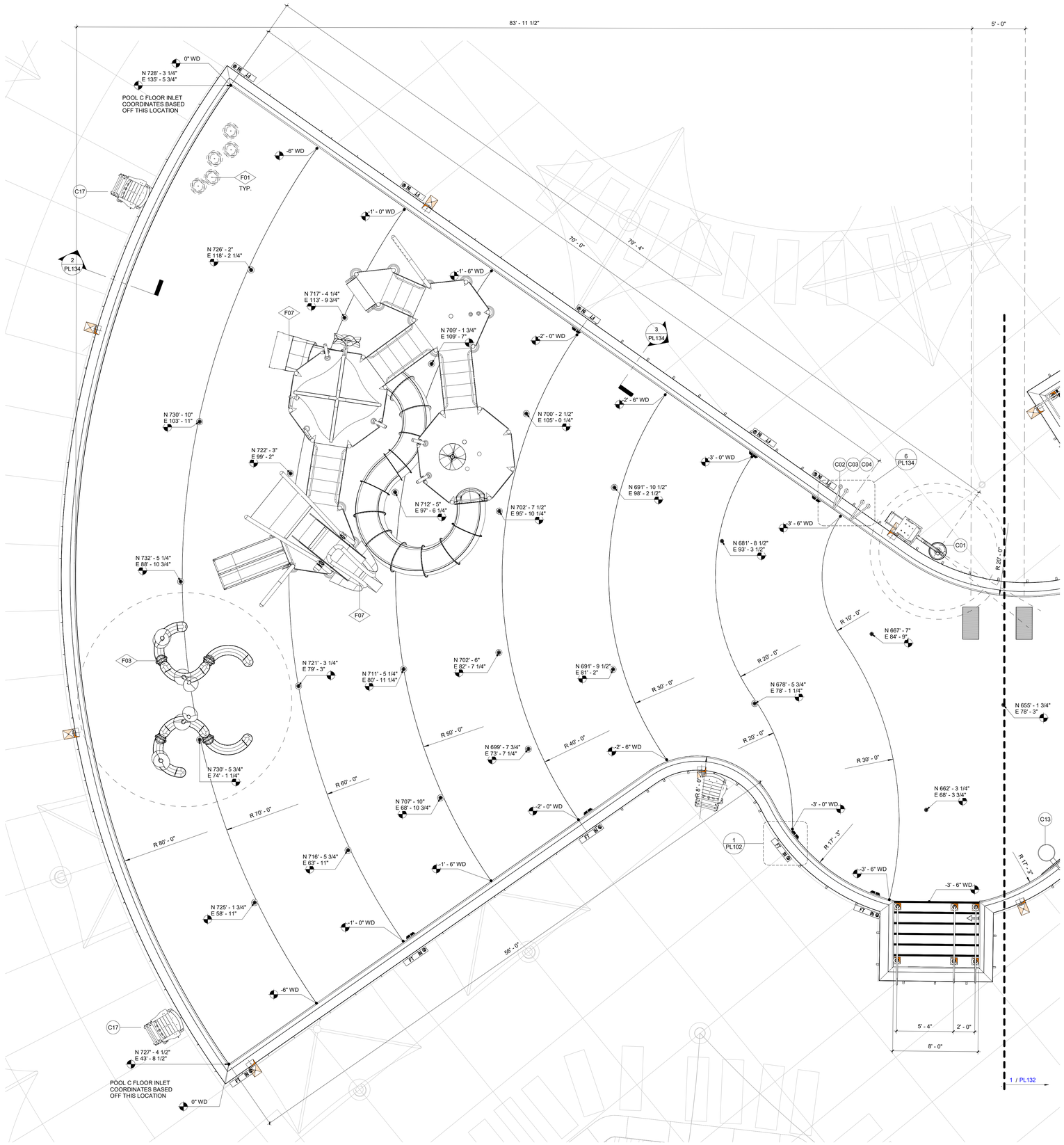
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH (1") LONG ON ORIGINAL DRAWINGS



1 | POOL C - LEISURE POOL - ENLARGED PLAN VIEW
PL131 1/4" = 1'-0"

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PL131
POOL C - LEISURE POOL ENLARGED PLAN

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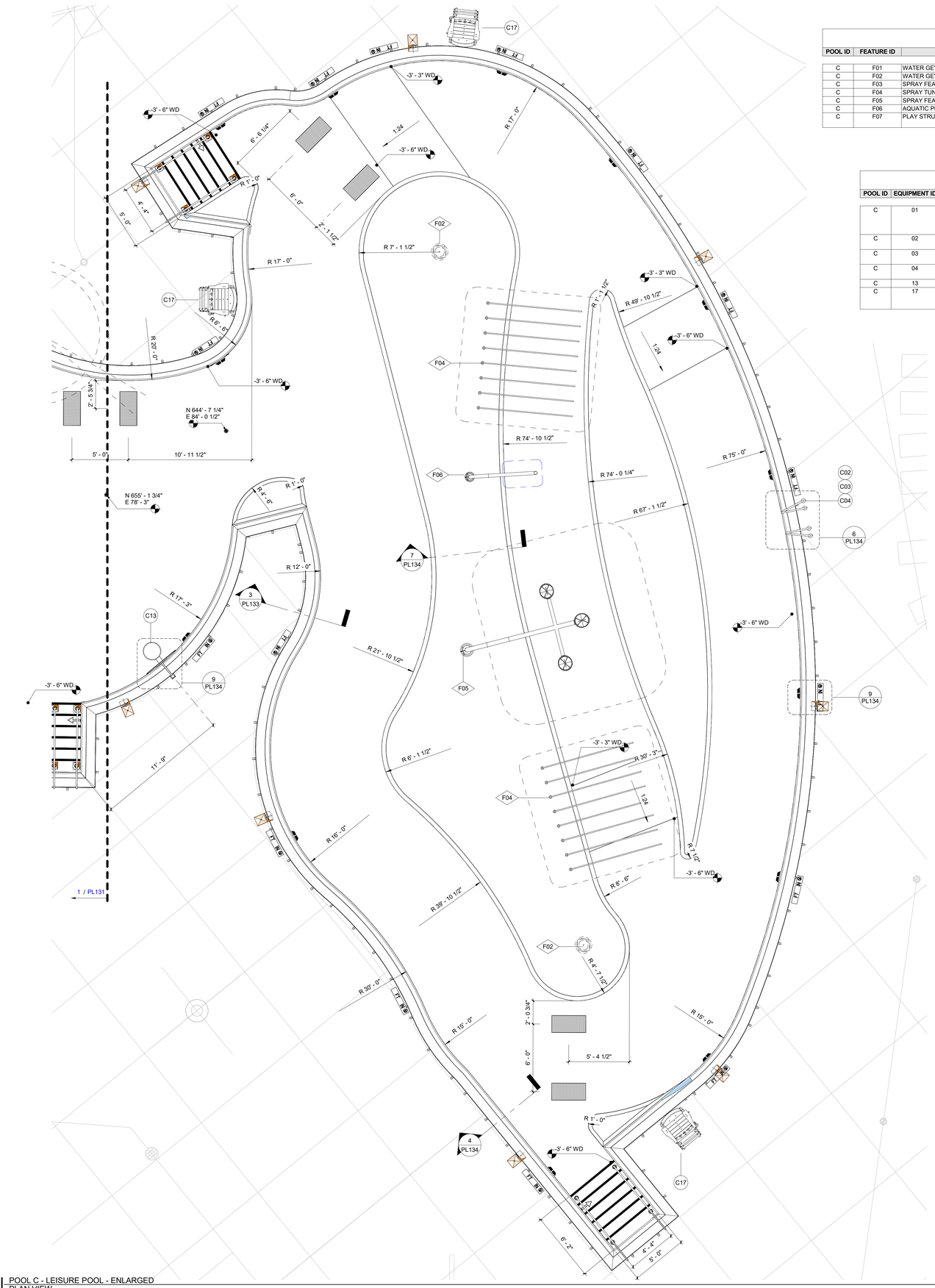

1 POL C - LEISURE POOL - ENLARGED PLAN VIEW
PL132 1/4" = 1'-0"

SCHEDULE - WATER FEATURE - POOL C

POOL ID	FEATURE ID	FEATURE	QTY	MANUFACTURER	DESCRIPTION	GPM (ea)	GPM (Total)
C	F01	WATER GEYSER	5	CUSTOM	FIELD FABRICATED WATER GEYSER	15	75
C	F02	WATER GEYSER	2	CUSTOM	FIELD FABRICATED WATER GEYSER ON ISLAND	15	30
C	F03	SPRAY FEATURE	1	VORTEX	VOR 7251 - CASCADE RAINFOREST - SAFESWAP No 2	20	20
C	F04	SPRAY TUNNEL	2	VORTEX	VOR 0304 - WATER TUNNEL N°1	40	80
C	F05	SPRAY FEATURE	1	VORTEX	VOR 7605 - RIO SPLASH TRI - SAFESWAP No 1	15	15
C	F06	AQUATIC PLAY FEATURES	1	VORTEX	VOR 7244 - VORTEX RIO CURTAIN - SAFESWAP No 2	90	90
C	F07	PLAY STRUCTURE	1	VORTEX	ELEVATION L5 - WITH (4) WATER ANCHORS, (5) DECKS, (17) WATER FEATURES AND (1) WATERSLIDE	630	630

SCHEDULE - BASIS OF DESIGN - POOL C

POOL ID	EQUIPMENT ID	EQUIPMENT	QTY	MANUFACTURER	DESCRIPTION
C	01	POOL LIFT	1	SR SMITH, AQUA CREEK, OR EQUAL	STANDARD ANCHORED, ROTATIONAL POOL LIFT, WITH 400 LB MINIMUM LIFTING CAPACITY. MUST MEET ALL APPLICABLE ADA REQUIREMENTS, WHILE MAINTAINING REQUIRED DECK CLEARANCE. PACKAGE TO INCLUDE ARMRESTS, ANCHOR, LIFT COVER, BATTERY CHARGER, AND CADDY
C	02	GRAB RAILS (PAIRS)	2	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	CALIFORNIA STYLE, 1.50" OD x .120 WALL THICKNESS, 500 GRIT FINISH MIN.
C	03	ESCUTCHEON PLATE	8	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	STAINLESS STEEL ROUND ESCUTCHEON FOR 1.50" O.D. RAILS
C	04	WEDGE ANCHOR	8	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	CAST BRONZE, 4-1/4" LONG, ACCEPTS 1.500" OD TUBING
C	13	BASKETBALL HOOP	1	SR SMITH	STAINLESS STEEL BASKETBALL HOOP WITH ROCKSOLID ANCHOR
C	17	LIFEGUARD CHAIR	6	TAILWIND, KEIFER, SPECTRUM AQUATICS, SR SMITH OR APPROVED EQUAL	MODEL LG510 INCLUDE CUP HOLDER AND UMBRELLA HOLDER. RECYCLED PLASTIC WITH 304 SS HARDWARE, COLOR BY OWNER/ARCHITECT. (OWNER'S SAFETY CONSULTANT TO SPECIFY LOCATION.)

SCHEDULE - CUSTOM RAILGOODS - POOL C

POOL ID	EQUIPMENT ID	EQUIPMENT	QTY	MANUFACTURER	DESCRIPTION
C	01	HAND RAIL	7	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	CUSTOM FABRICATED, 316L SS, 1.50" OD x .120 WALL THICKNESS, 500 GRIT FINISH MIN.

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CHICO AREA RECREATION & PARK DISTRICT

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PL132
POOL C - LEISURE POOL ENLARGED PLAN

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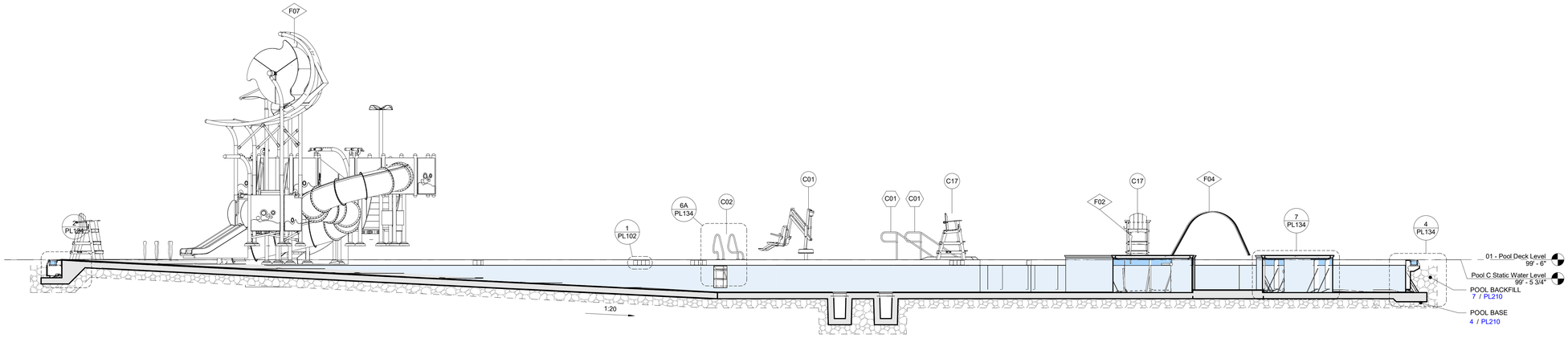
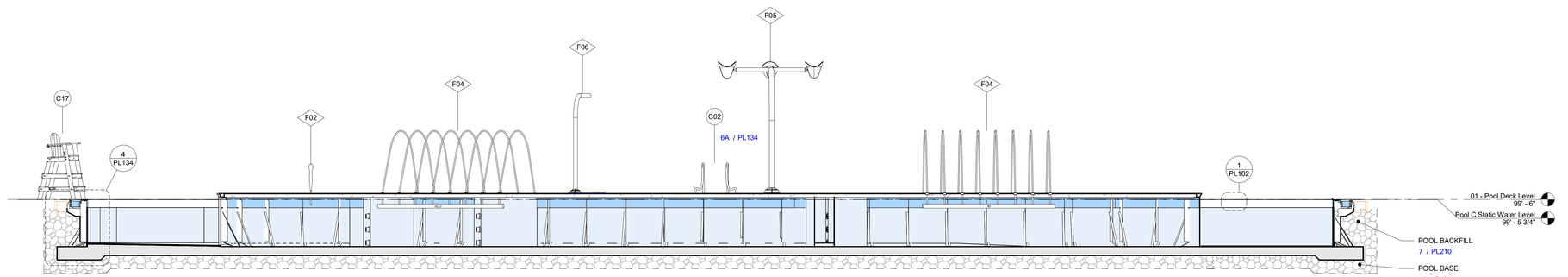
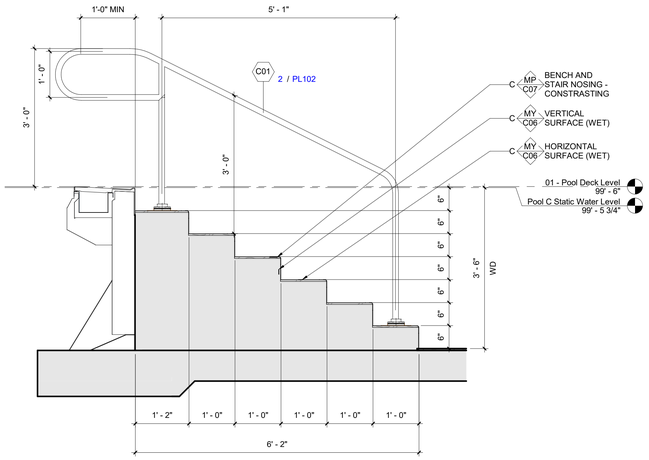


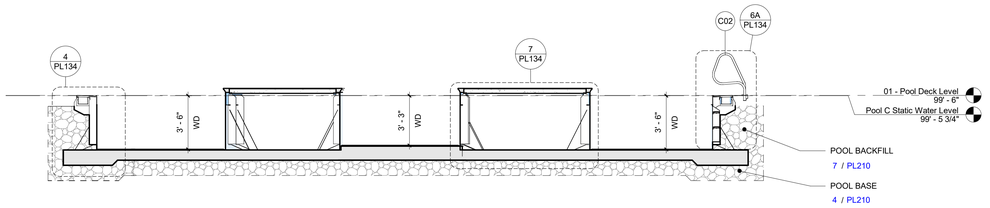
1 PL133 POOL C - LEISURE POOL SECTION VIEW
3/16" = 1'-0"



2 PL133 POOL C - LEISURE POOL SECTION VIEW
1/4" = 1'-0"



4 PL133 POOL C - LEISURE POOL STAIRS SECTION VIEW
3/4" = 1'-0"



3 PL133 POOL C - LEISURE POOL SECTION VIEW
1/4" = 1'-0"

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PL133
POOL C - LEISURE POOL SECTIONS

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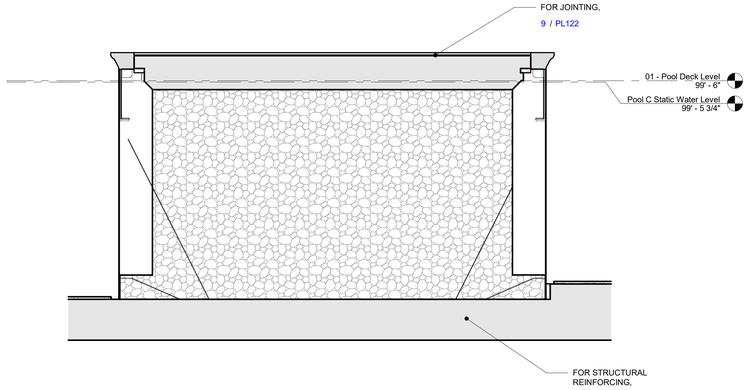
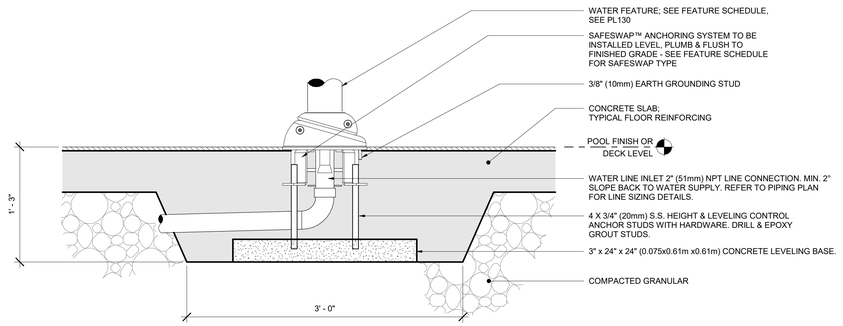
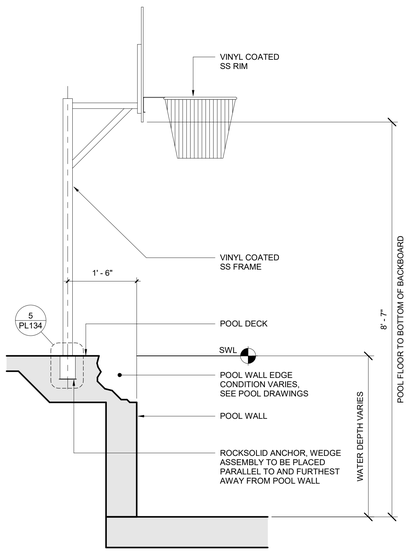


7 | POOL C - ISLAND WALL DETAIL VIEW
PL134 | 1" = 1'-0"



NOTE:
CONFIRM ANCHOR TYPE & ALL INSTALLATION REQUIREMENTS WITH VORTEX PRIOR TO INSTALL.

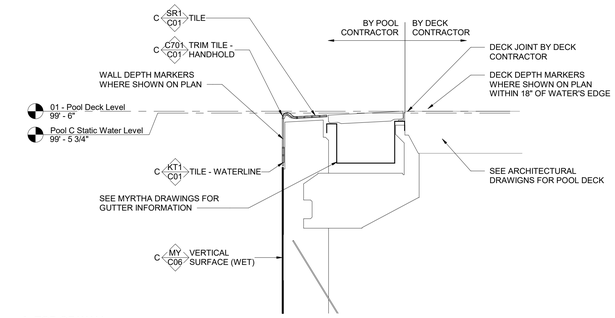
8 | ANCHOR DETAIL - VORTEX SAFESWAP
PL134 | DETAIL VIEW
1 1/2" = 1'-0"



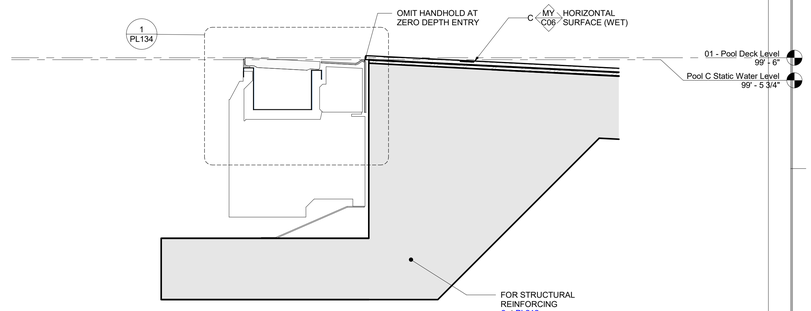
NOTES:

1. CONCRETE CLEAR COVER AT ALL ANCHOR EMBEDMENTS SHALL BE 6" MINIMUM. THICKEN SLAB IF NECESSARY TO ACHIEVE MINIMUM COVER.

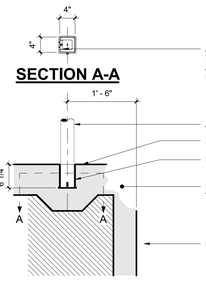
9 | ACTIVITIES DETAIL - WATER BASKETBALL ANCHOR
PL134 | DETAIL VIEW
3/4" = 1'-0"



1 | TOP OF WALL DETAIL VIEW
PL134 | 1 1/2" = 1'-0"



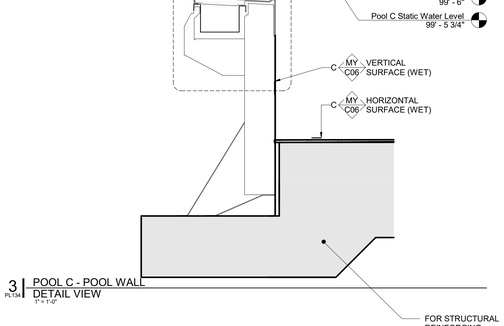
2 | POOL C - 0" WD POOL WALL DETAIL VIEW
PL134 | 1 1/2" = 1'-0"



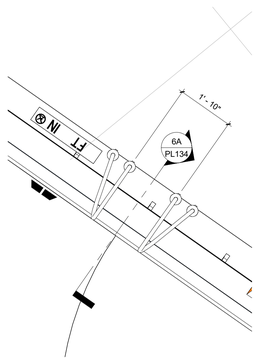
NOTES:

1. CONCRETE CLEAR COVER AT ALL ANCHOR EMBEDMENTS SHALL BE 6" MINIMUM. THICKEN SLAB IF NECESSARY TO ACHIEVE MINIMUM COVER.

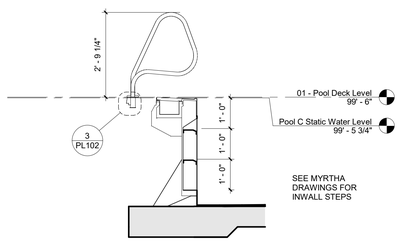
5 | ANCHOR - ROCKSOLID INSTALL DETAIL VIEW
PL134 | 3/4" = 1'-0"



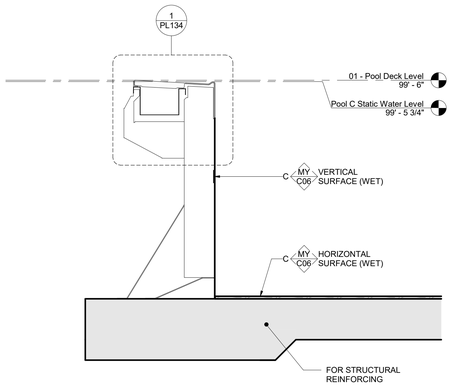
3 | POOL C - POOL WALL DETAIL VIEW
PL134 | 1" = 1'-0"



6 | POOL C - LEISURE POOL - GRAB RAILS PLAN VIEW
PL134 | 1/2" = 1'-0"



6A | POOL C - GRAB RAIL AND INWALL STEPS SECTION VIEW
PL134 | 1/2" = 1'-0"



4 | POOL C - POOL WALL DETAIL VIEW
PL134 | 1" = 1'-0"

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PL134
POOL C - LEISURE POOL DETAILS

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DESIGN IS IN ACCORDANCE WITH THE STATE OF 2022 CALIFORNIA BUILDING STANDARDS CODE AND THE 2021 INTERNATIONAL BUILDING CODE AS AMENDED TO DATE.

NOTE

STRUCTURAL DRAWINGS AND POOL DRAWINGS MUST BE USED IN CONJUNCTION WITH EACH OTHER. POOL DRAWINGS DICTATE ALL FINAL CONDITIONS OF POOL, FEATURES, AND DIMENSIONS OF POOL SHELL, INCLUDING POOL FINISH. UNLESS OTHERWISE INDICATED, STRUCTURAL DIMENSIONS ARE CONCRETE TO CONCRETE, AND DICTATE REQUIRED THICKNESSES FOR STRUCTURAL INTEGRITY ONLY.

GEOTECHNICAL PARAMETERS

SOIL PARAMETERS FOR POOL STRUCTURAL DESIGN

1. POOL DESIGNED FOR EMPTY AND FULL CONDITIONS.
2. ALL SOIL PARAMETERS FOR THE POOL STRUCTURAL DESIGN ARE BASED UPON RECOMMENDATIONS FROM THE GEOTECHNICAL REPORT BY NV5, DATED NOVEMBER 21, 2023. SUBGRADE PREPARATION OF THE SOILS BELOW THE POOL BASE LAYER IS THE RESPONSIBILITY OF THE CONTRACTOR PREPARING THE REMAINDER OF THE SITE AND SHALL BE EXECUTED IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. OVER EXCAVATION OF FILL SOIL MAY BE REQUIRED PER THE GEOTECHNICAL ENGINEER.
3. STATED NET ALLOWABLE SOIL BEARING CAPACITY = 2500 PSF
4. AT-REST SOIL LATERAL PRESSURE = 60H + 15H^2 SEISMIC PRESSURE, PSF/FT
5. AN UNDERDRAIN SYSTEM, BY OTHERS, IS PROVIDED TO MITIGATE GROUNDWATER WHEN THE POOL IS EMPTY.
6. ASSUMED SETTLEMENT AND/OR PVR FOR THE POOL DOES NOT EXCEED 1/2" TOTAL MOVEMENT AND 1/4" DIFFERENTIAL MOVEMENT

STRUCTURAL AND REINFORCEMENT NOTES

STRUCTURAL NOTES

1. REINFORCEMENT AT WALL CORNERS AND WALL BENDS SHALL BE DETAILED PER THE ASSOCIATED TYPICAL DETAILS. CORNER AND BEND BARS SHALL BE THE SAME SIZE AND SPACING AS THE TYPICAL HORIZONTAL WALL REINFORCING OF THE ASSOCIATED WALLS.
2. UNLESS OTHERWISE INDICATED, ALL WALL REINFORCEMENT BARS SHALL BE CONTINUOUS AROUND CORNERS. REINFORCEMENT SHALL BE EXTENDED INTO CONNECTING WALLS. UNLESS OTHERWISE INDICATED, CONTRACTOR MAY SPLICE CONTINUOUS SLAB BARS AT LOCATIONS OF THEIR CHOOSING, EXCEPT THAT TOP BAR SPLICES SHALL BE LOCATED AT MID-SPAN AND BOTTOM BAR SPLICES SHALL BE LOCATED AT SUPPORTS. ALL REINFORCEMENT BENDS AND LAPS, UNLESS OTHERWISE INDICATED, SHALL SATISFY THE MINIMUM REQUIREMENTS FOR CLASS B SPLICES.
3. FOR REINFORCEMENT AT WALL OR FLOOR SLAB PENETRATIONS, SEE 1 / PL200
4. MINIMUM POURED CONCRETE DESIGN STRENGTH = 4500 PSI, MINIMUM SHOTCRETE DESIGN STRENGTH = 5000 PSI

REINFORCEMENT NOTES: 60KSI, A615, DEFORMED BARS

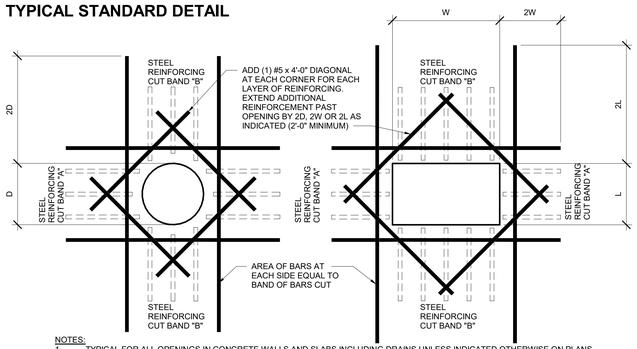
1. REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI "MANUAL OF CONCRETE PRACTICE", LATEST EDITION, UNLESS OTHERWISE NOTED.
2. ALL LAPS SHALL BE CLASS "B" PER ACI 318 UNLESS OTHERWISE NOTED ON THE DESIGN DRAWINGS. USE TOP BAR LAP LENGTHS FOR ALL HORIZONTAL WALL BARS AND FOR TOP BARS IN SLABS AND BEAMS OVER 14" DEEP
3. LAP LENGTH SHALL BE SPECIFICALLY NOTED ON PLACING DRAWINGS WHERE MORE THAN ONE BAR MAKES UP A CONTINUOUS STRING.
4. TIE POOL REINFORCING STEEL WITH 18-GAUGE ANNEALED WIRE AS SPECIFIED IN THE CRSI 63 RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS. ALL TIE WIRES SHALL BE "MADE TIGHT" FOR ELECTRICAL BONDING PURPOSES, AS REQUIRED PER
5. ALL HOOKS SHALL BE STANDARD HOOKS UNLESS NOTED OTHERWISE.

REINFORCING STEEL MINIMUM CLEAR COVER REQUIREMENTS
COORDINATE WITH REINFORCEMENT STEEL PLACING REQUIREMENTS

1. 3" FOR CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH
2. 2" TYPICAL ALL ELSE, UNLESS NOTED OTHERWISE ON DETAILS

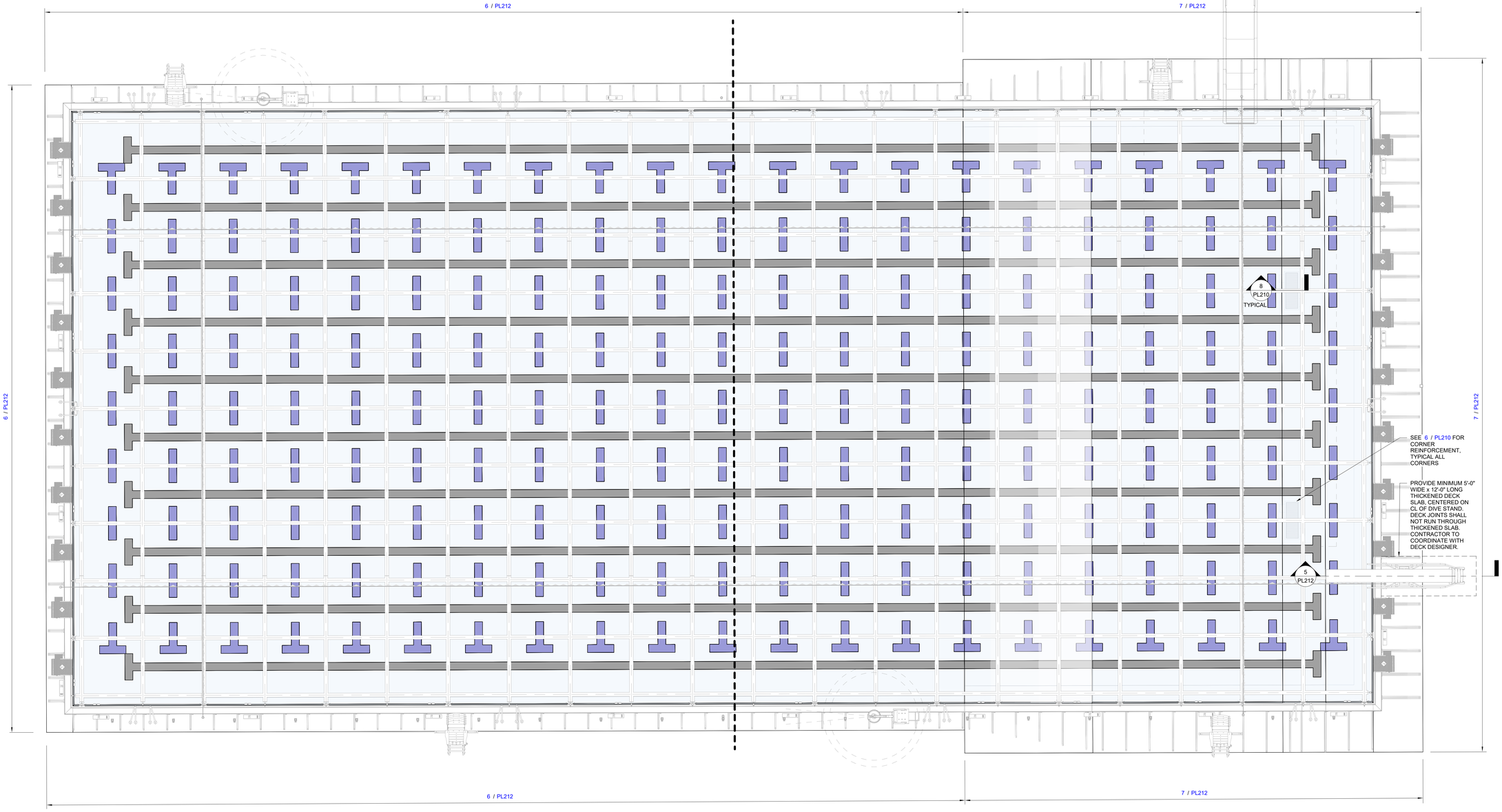
REINFORCEMENT CLASS "B" LAP LENGTHS
BASED UPON 4500 PSI CONCRETE AND 60 KSI REINFORCING STEEL

TYPICAL STANDARD DETAIL



NOTES:
1. TYPICAL FOR ALL OPENINGS IN CONCRETE WALLS AND SLABS INCLUDING DRAINS UNLESS INDICATED OTHERWISE ON PLANS.
2. DO NOT WELD REINFORCEMENT TO PIPE SLEEVES AND INSERTS.
3. ALL OPENINGS THROUGH WATERTIGHT TANK REQUIRE WATERSTOPS.
4. PROVIDE MINIMUM LAP AS NOTED OR SHOWN ON PLANS (TYPICAL).

1 PL200 REINFORCING - REINFORCEMENT AT OPENINGS DETAIL VIEW
NTS



2 PL200 POOL A - LAP POOL STRUCTURAL PLAN VIEW
3/16" = 1'-0"

N

GRÄEF
Project Number: 2024-2000.26
Phone 920 / 592 9440

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23214
Issue	PERMIT & BID SET
Date	2025-01-24

PL200
STRUCTURAL NOTES AND PLAN(S)

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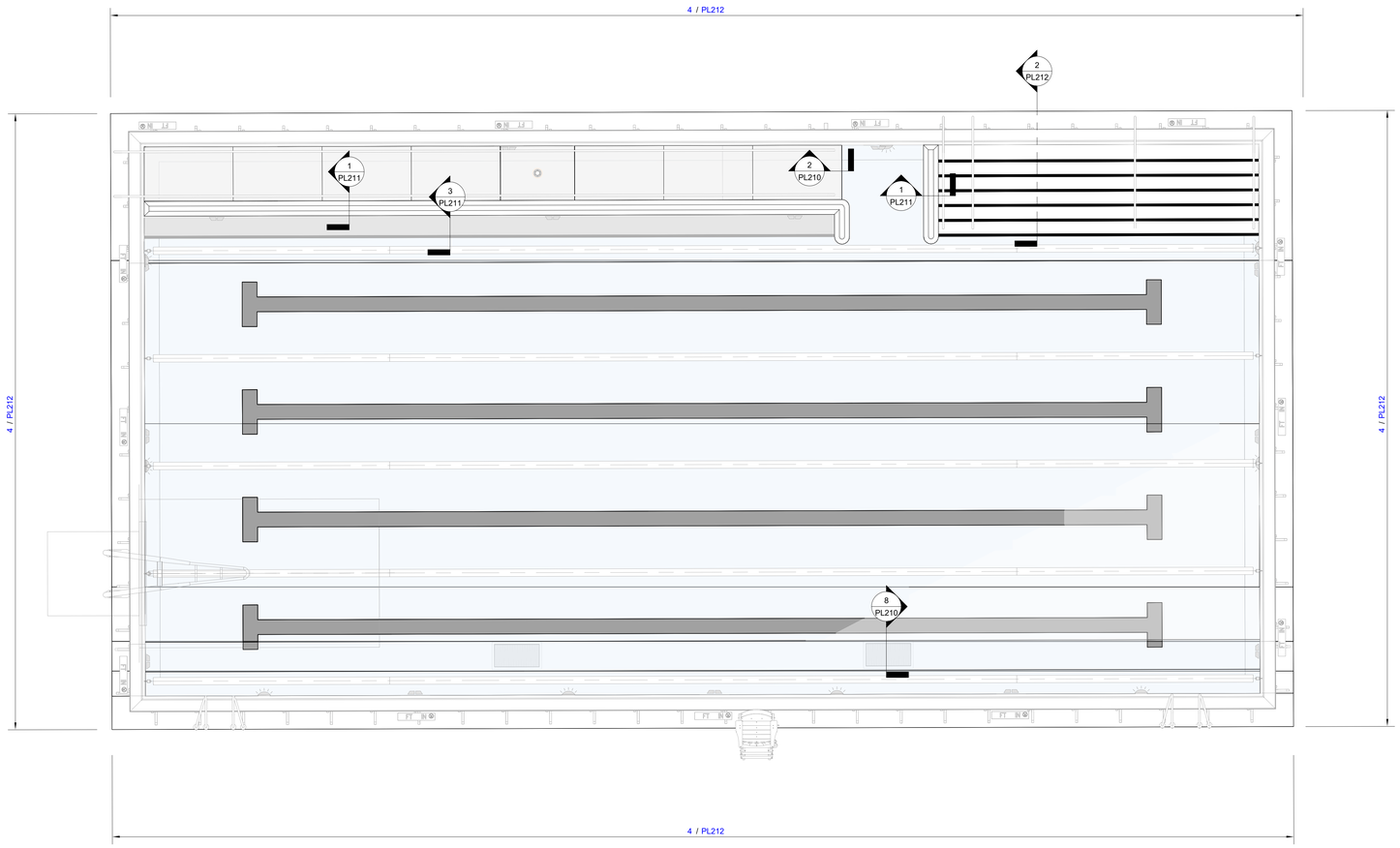

1 | POOL B - WARM UP POOL STRUCTURAL PLAN VIEW
PL201 1/4" = 1'-0"

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PL201
STRUCTURAL PLAN(S)

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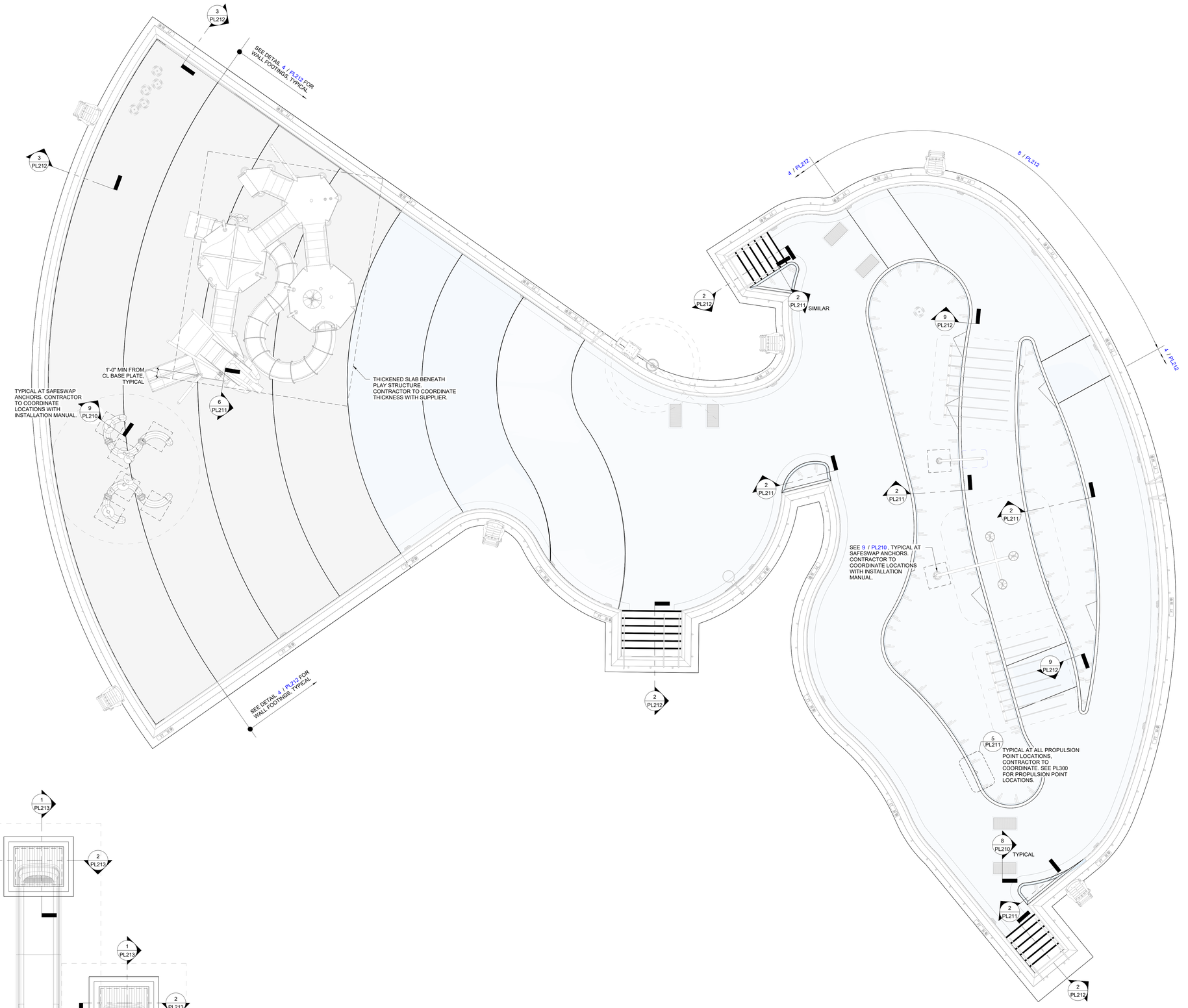

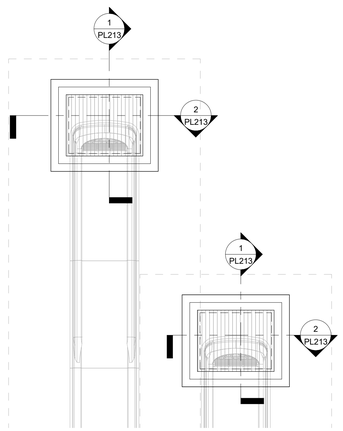

2 PL202 POOL C - ENLARGED RUNOUT SUMPS STRUCTURAL PLAN VIEW
1/4" = 1'-0"

1 PL202 POOL C - LEISURE POOL STRUCTURAL PLAN VIEW
3/16" = 1'-0"

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PL202
STRUCTURAL PLAN(S)

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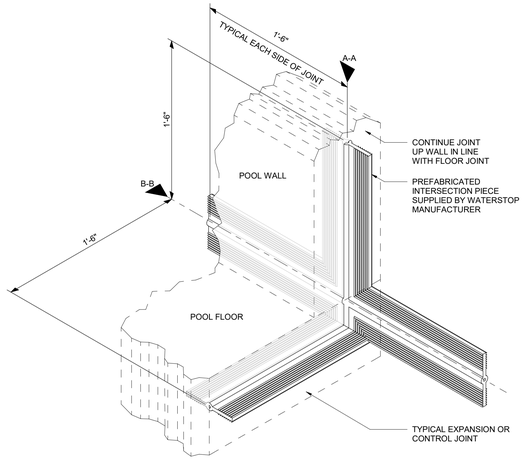
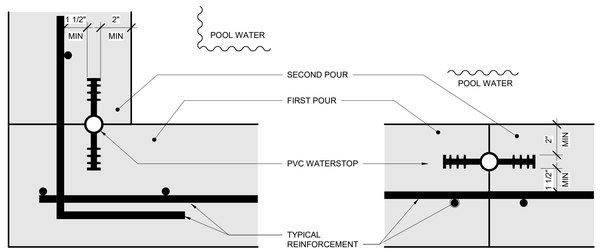


HORIZONTAL TO VERTICAL INSTALLATION @ TYPICAL JOINT

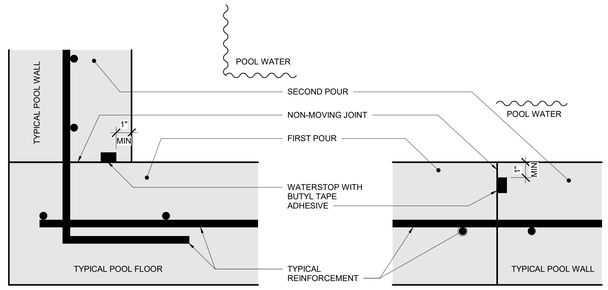


SECTION B-B FLOOR / WALL JOINT

SECTION A-A: WALL / WALL JOINT OR FLOOR/FLOOR JOINT

NOTES:
1. DETAIL IS SCHEMATIC AND INDICATES CLEARANCES AND INSTALLATION INFORMATION ONLY. FOR APPLICABLE INSTALLATION LOCATIONS SEE POOL STRUCTURAL DETAILS.
2. WATERSTOP SHALL BE 6" PVC RIBBED WITH 1" DIA CENTERBULB UNLESS NOTED OTHERWISE.
3. INSTALL WATERSTOP ON WET SIDE(S) OF REINFORCEMENT.
4. ALL WATERSTOPS SHALL BE WELDED PER MANUFACTURER'S REQUIREMENTS.
5. SPACING BETWEEN REINFORCING STEEL AND WATERSTOP SHALL BE NO LESS THAN 1.5 x DIA OF THE LARGEST AGGREGATE IN THE APPROVED CONCRETE MIX.
6. SEE SPECIFICATION SECTION 131120 FOR ADDITIONAL WATERSTOP REQUIREMENTS.

10 | WATERSTOP - PVC
PL210 DETAIL VIEW
NOT TO SCALE

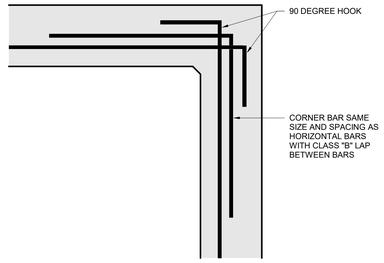


SECTION B-B FLOOR / WALL JOINT

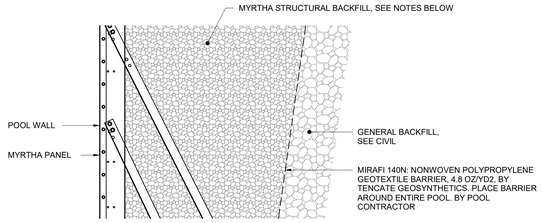
SECTION A-A: WALL / WALL JOINT OR FLOOR/FLOOR JOINT

NOTE:
1. DETAIL IS SCHEMATIC AND INDICATES CLEARANCES AND INSTALLATION INFORMATION ONLY. FOR APPLICABLE INSTALLATION LOCATIONS SEE POOL STRUCTURAL DETAILS.
2. BASIS OF DESIGN IS TYPE KBA-1510FP WATERSTOP BY ADEKA. SUBSTITUTIONS MUST BE APPROVED BY ENGINEER. NOTE THAT CLEARANCES FOR SUBSTITUTIONS MAY DIFFER. REFER TO MANUFACTURER REQUIREMENTS.
3. INSTALL WATERSTOP ON WET SIDE(S) OF REINFORCEMENT.
4. DIMENSION ABOVE IS A MIN FOR CONCRETE COVERAGE AND DOES NOT INCLUDE THE POOL FINISH. PROVIDE ADDITIONAL CONCRETE COVERAGE IF POSSIBLE.
5. PROTECT WATERSTOP FROM WATER, DIRT, DEBRIS, AND DAMAGE PRIOR TO COVERING WITH CONCRETE.
6. SEE SPECIFICATION SECTION 131120 FOR ADDITIONAL WATERSTOP REQUIREMENTS.

11 | WATERSTOP - COMPRESSIBLE NON-MOVING JOINT - ADEKA
PL210 DETAIL VIEW
NOT TO SCALE



6 | REINFORCING - SINGLE MAT REINFORCING AT CORNER
PL210 DETAIL VIEW
NOT TO SCALE

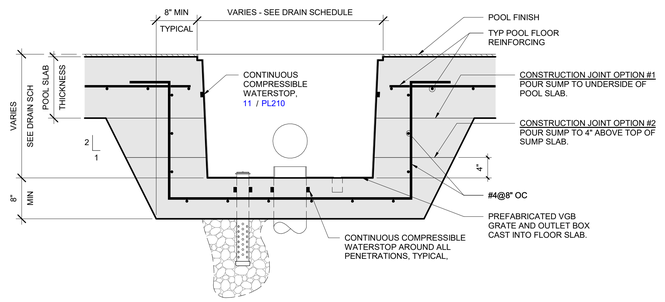


ALL BACKFILL IN CONTACT WITH OR WITHIN THE CLEAR ZONE OF THE MYRTHA STRUCTURE (AS DEFINED BY THE AREA POOL SIDE OF A VERTICAL PLANE AT THE FURTHEST STRUCTURAL SUPPORT) WILL CONSIST OF MATERIAL, BE PLACED AND COMPACTED PER THE MANUFACTURER'S SPECIFICATIONS. THIS ASSOCIATED MATERIAL SHALL BE WHAT IS COMMONLY REFERRED TO AS SELF-COMPACTING PEA GRAVEL WITH THE FOLLOWING BASIC CHARACTERISTICS.

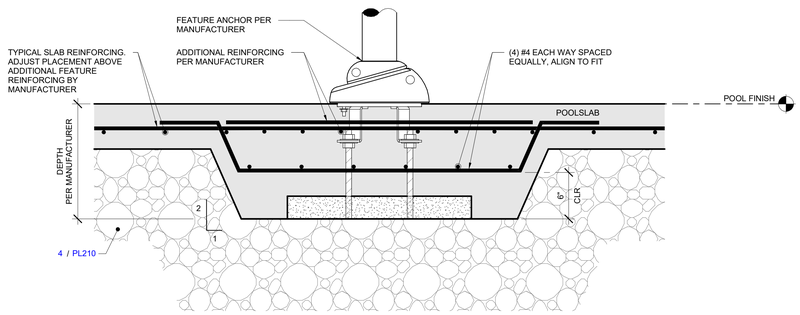
- WELL DRAINED
- COHESIONLESS MATERIAL
- AVERAGE GRAIN SIZE OF LESS THAN 1"
- CONSISTENTLY EVEN DISTRIBUTION
- SELF-COMPACTING IN NATURE
- CLEAN AND WASHED
- SMOOTH NON-ANGULAR SURFACE

APPROVAL OF SUITABLE CONTRACTOR SELECTED MATERIALS FOR THIS SPECIALIZED BACKFILL WILL BE THE SOLE DISCRETION OF THE MANUFACTURER. THE MATERIAL SHALL BE PLACED IN ONE FOOT LIFTS AROUND THE PERIMETER OF THE STRUCTURE IN SUCH A MANNER THAT THE GRAINS NATURALLY COMPACT. NO VIBRATORY OR MECHANICAL COMPACTION SHALL OCCUR WITHIN THE AFOREMENTIONED "CLEAR ZONE". SPECIAL ATTENTION SHOULD BE TAKEN TO ENSURE THE BACKFILL DOES NOT SLUFF AWAY FROM THE PANEL AT HORIZONTAL PROTRUSIONS SUCH AS GUTTERS, SKIMMER BOXES, BUTTRESSES, ETC. REFER TO STRUCTURAL ENGINEERING DRAWINGS AND SPECIFICATIONS, AS WELL AS ALL GEOTECHNICAL RECOMMENDATIONS FOR OTHER BACKFILL AND COMPACTION PROCEDURES AND REQUIREMENTS FOR THE PROJECT. ANY CONFLICTS BETWEEN THIS SPECIALIZED REQUIREMENT AND THE GENERAL EARTHWORK SPECIFICATIONS AND DRAWINGS WILL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD DURING THE BIDDING PROCESS. NO PERCEIVED CONFLICTS WILL BE CONSIDERED JUSTIFICATION TO A CHANGE TO THE BASE CONTRACT UNLESS SPECIFICALLY EXPRESSED DURING THE BIDDING PROCESS. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE OR MISALIGNMENT OF THE PANELS OR STRUCTURE RESULTING FROM THE IMPROPER INSTALLATION OF THESE SPECIFIC BACKFILL REQUIREMENTS.

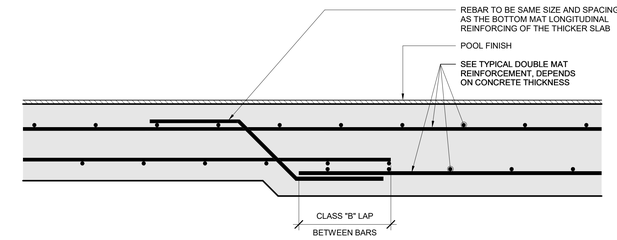
7 | MYRTHA WALL BACKFILL
PL210 DETAIL VIEW
NOT TO SCALE



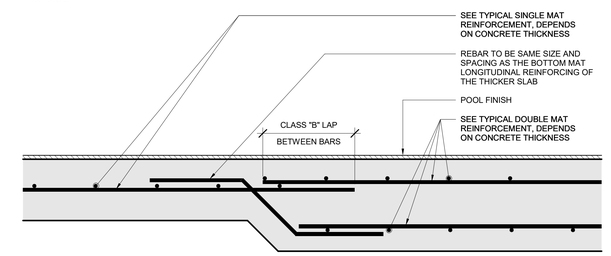
8 | REINFORCING - FLOOR OUTLET
PL210 DETAIL VIEW
NOT TO SCALE



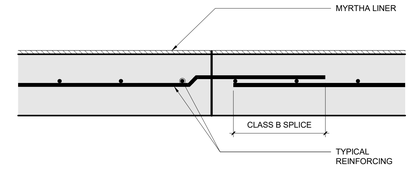
9 | REINFORCING - VORTEX SAFESWAP
PL210 DETAIL VIEW
NOT TO SCALE



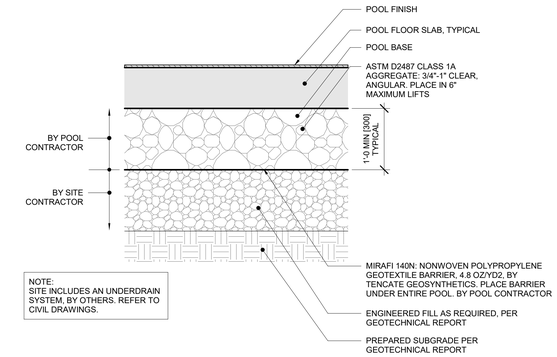
1 | REINFORCING - DOUBLE MAT TO DOUBLE MAT TRANSTION
PL210 DETAIL VIEW
NOT TO SCALE



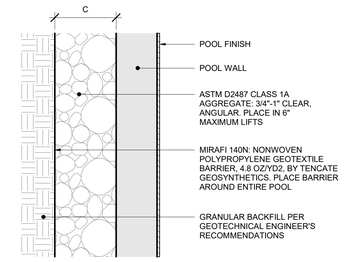
2 | REINFORCING - SINGLE MAT TO DOUBLE MAT TRANSITION
PL210 DETAIL VIEW
NOT TO SCALE



3 | REINFORCING - CONSTRUCTION JOINT
PL210 DETAIL VIEW
NOT TO SCALE



4 | POOL STRUCTURE BASE
PL210 DETAIL VIEW
NOT TO SCALE



5 | POOL WALL BACKFILL
PL210 DETAIL VIEW
NOT TO SCALE

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Project Number	23214
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Date	2025-01-24

PL210
STRUCTURAL DETAILS

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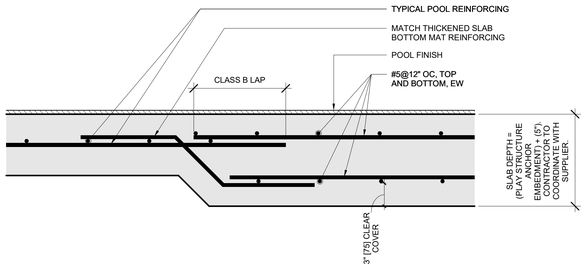
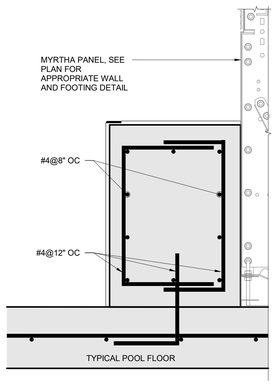
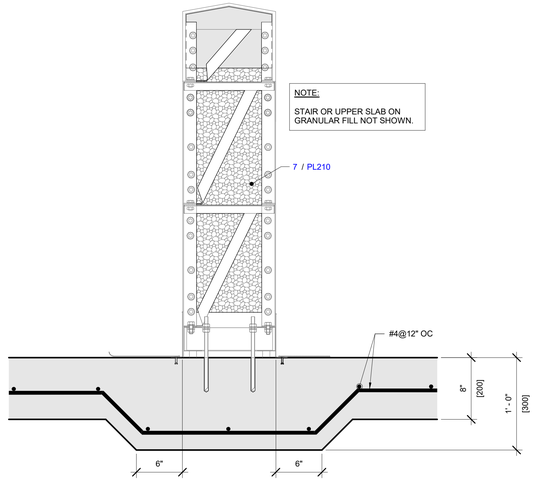


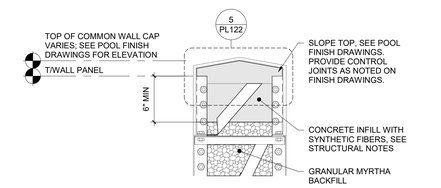
6 PL211 REINFORCING - THICKENED SLAB TRANSITION DETAIL VIEW
1 1/2" = 1'-0"



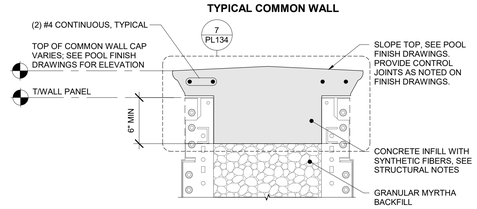
3 PL211 REINFORCING - MYRTHA WALL AT BENCH DETAIL VIEW
1 1/2" = 1'-0"



1 PL211 REINFORCING - THICKENED SLAB AT MYRTHA COMMON WALL DETAIL VIEW
1 1/2" = 1'-0"



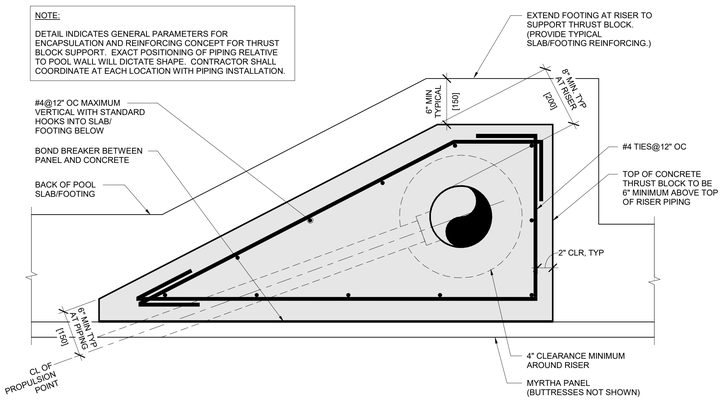
TYPICAL COMMON WALL



TYPICAL ISLAND

4 PL211 MYRTHA WALL CAP DETAIL VIEW
1 1/2" = 1'-0"

2 PL211 REINFORCING - MYRTHA ISLAND WALL DETAIL VIEW
1 1/2" = 1'-0"



5 PL211 REINFORCING - PROPULSION POINT RISER THRUST BLOCK DETAIL VIEW
1 1/2" = 1'-0"

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PL211
STRUCTURAL DETAILS

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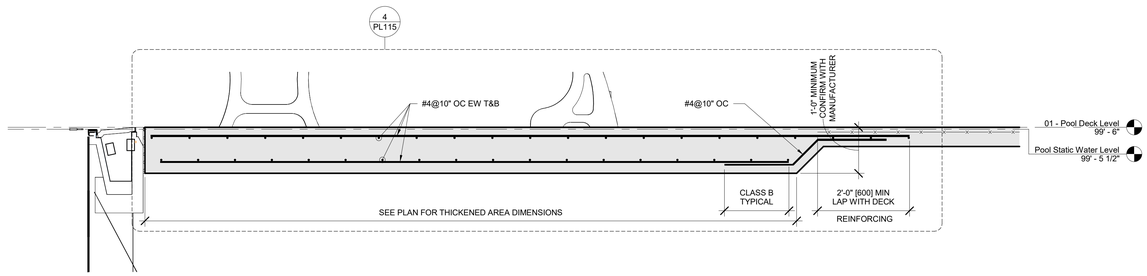
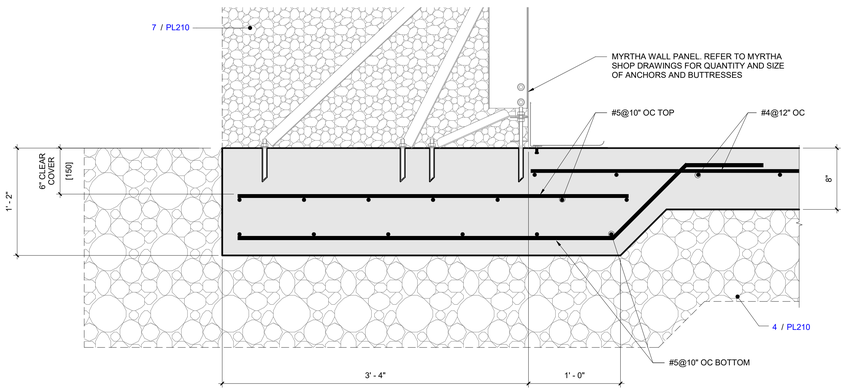
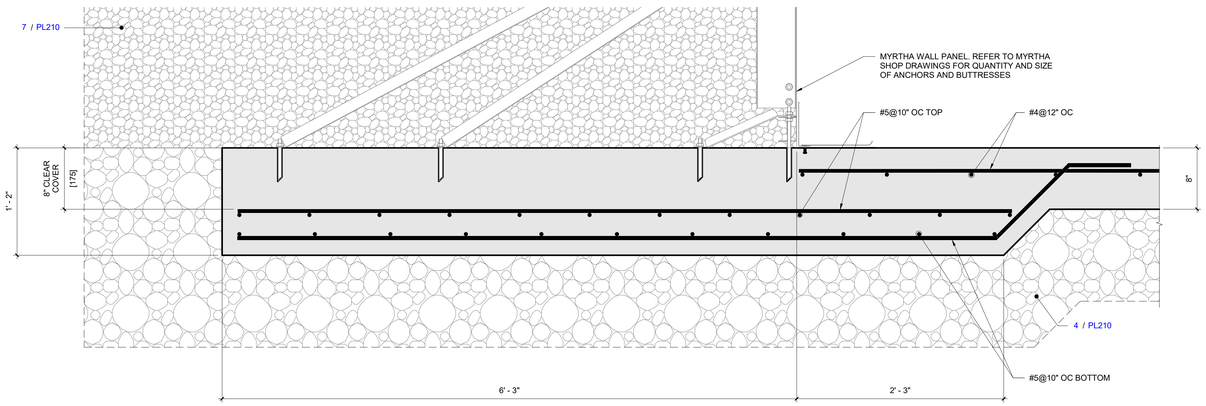


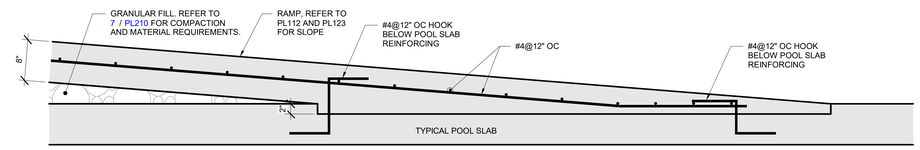
5 | REINFORCING - THICKENED SLAB AT DIVE STAND DETAIL VIEW
PL212 | 3/4" = 1'-0"



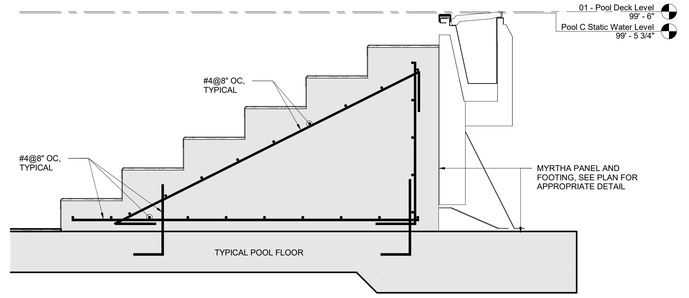
6 | REINFORCING - POOL A MYRTHA WALL - FOOTING AT 6'-8" WD AND LESS DETAIL VIEW
PL212 | 1 1/2" = 1'-0"



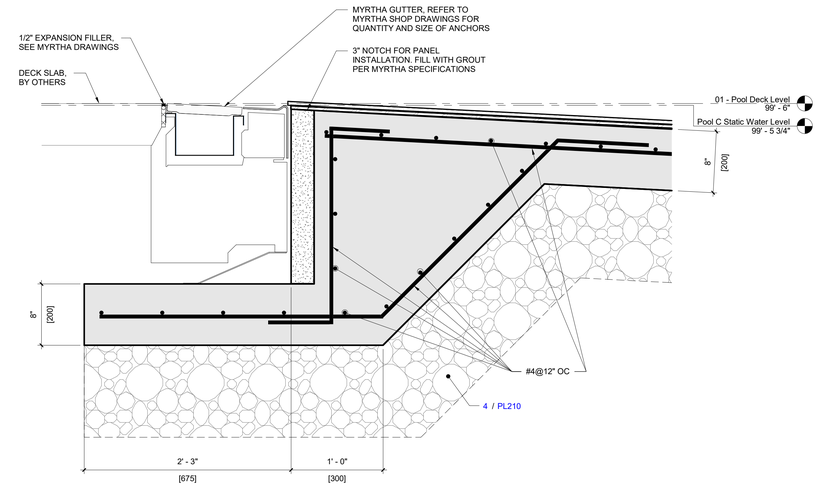
7 | REINFORCING - POOL A MYRTHA WALL - FOOTING AT 12'-6" WD AND LESS DETAIL VIEW
PL212 | 1 1/2" = 1'-0"



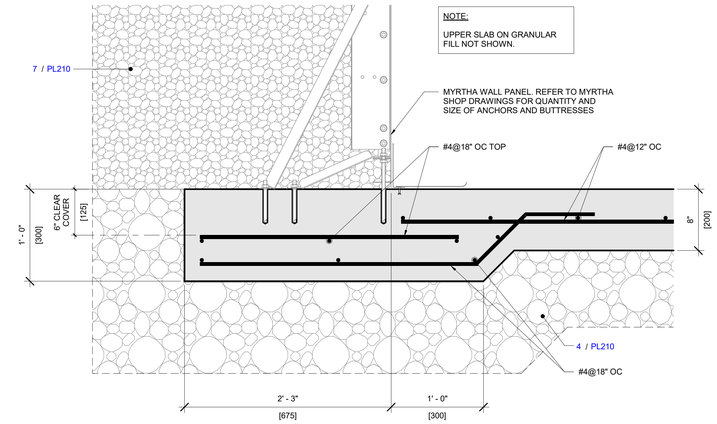
1 | REINFORCING - RAMP TO POOL SLAB DETAIL VIEW
PL212 | NOT TO SCALE



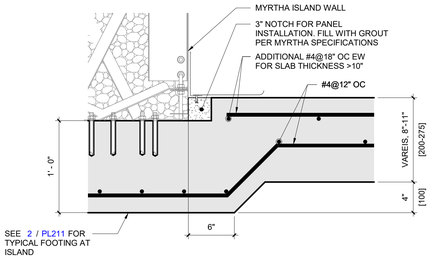
2 | REINFORCING- POOL STAIRS DETAIL VIEW
PL212 | 1" = 1'-0"



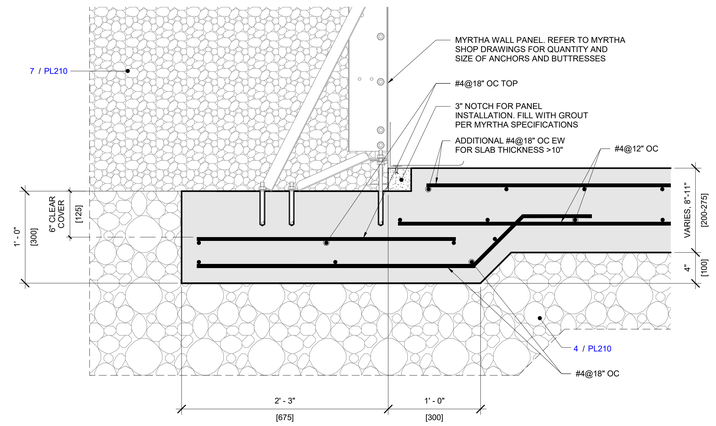
3 | REINFORCING - MYRTHA WALL - WATER DEPTH LESS THAN PANEL HEIGHT DETAIL VIEW
PL212 | 1 1/2" = 1'-0"



4 | REINFORCING - POOL B & POOL C MYRTHA WALLS DETAIL VIEW
PL212 | 1 1/2" = 1'-0"



9 | REINFORCING - SLAB TRANSITION FOR WATER DEPTH LESS THAN PANEL HEIGHT DETAIL VIEW
PL212 | 1 1/2" = 1'-0"



8 | REINFORCING - POOL C MYRTHA WALLS - WATER DEPTH LESS THAN PANEL HEIGHT DETAIL VIEW
PL212 | 1 1/2" = 1'-0"

GRÄEF
Project Number: 2024-2000.26
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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23214
Issue	PERMIT & BID SET
Date	2025-01-24

PL212
STRUCTURAL DETAILS

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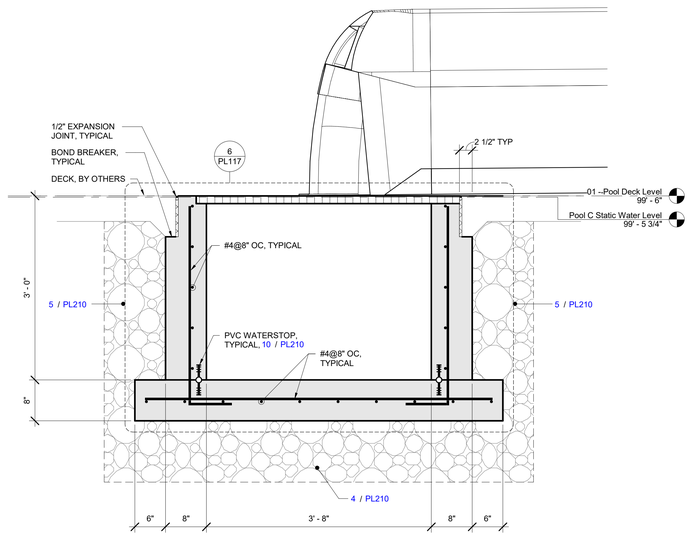
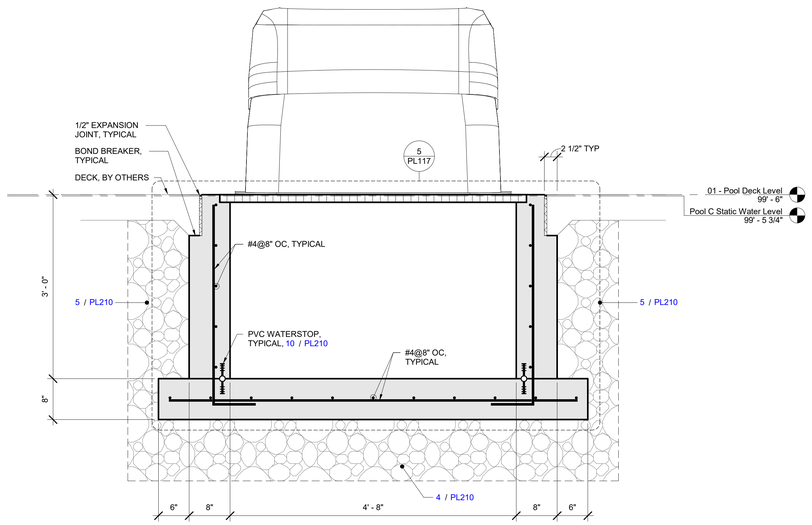


1 PL213 POOL C - SLIDE B RUNOUT TANK
SECTION VIEW
1" = 1'-0"



2 PL213 REINFORCING - POOL C - SLIDE RUNOUT TANK
SECTION VIEW
1" = 1'-0"

GRAEF
Project Number: 2024-2000.26
Phone 920 / 592 9440

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PL213
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THE LINE SHOWN ABOVE IS EXACTLY 1" (INCH) ONLY. IF IT IS NOT, ADJUST SCALE ACCORDINGLY

DRAIN SCHEDULE

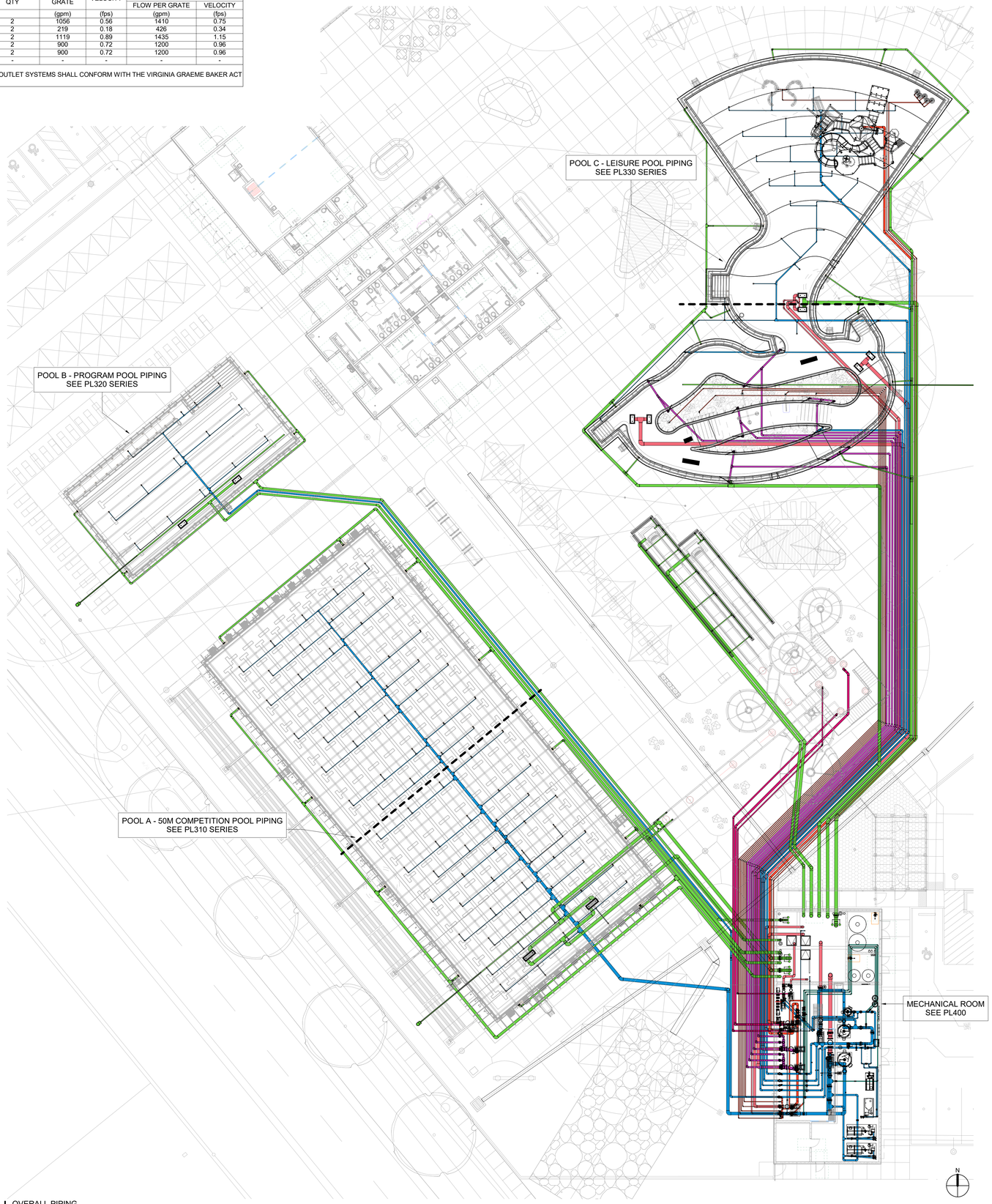
DRAIN / GRATE ID	DRAIN/GRATE MFGR SPECIFICATIONS						DESIGN DATA						
	MFGR & MODEL #	DIMENSIONS		OPEN AREA		MAX ALLOWABLE FLOW PER GRATE	CONNECTED PUMPS	SYSTEM TOTAL DESIGN FLOW	DRAIN / GRATE QTY	FLOW PER GRATE	VELOCITY	SYSTEM MAXIMUM	
		WIDTH	LENGTH	PER GRATE	TOTAL							FLOW PER GRATE	VELOCITY
		(ft)	(ft)	(in2)	(in2)	(gpm)		(gpm)		(gpm)	(fps)	(gpm)	(fps)
A-PF1	MYRTHA BY DALDORADO: DalMAX-MBD-185434	1.5	4.5	602.00	1204.00	4412	N/A	2112	2	1056	0.56	1410	0.75
B-PF1	MYRTHA BY DALDORADO: DalMAX-MBD-183625	1.5	3.0	401.00	802.00	1984	N/A	439	2	219	0.18	426	0.34
C-PF1.1	MYRTHA BY DALDORADO: DalMAX-MBD-183634	1.5	3.0	401.00	802.00	2869	P2C, P3C	2237	2	1119	0.89	1435	1.15
C-PF1.2	MYRTHA BY DALDORADO: DalMAX-MBD-183634	1.5	3.0	401.00	802.00	2869	P6C	1800	2	900	0.72	1200	0.96
C-PF1.3	MYRTHA BY DALDORADO: DalMAX-MBD-183634	1.5	3.0	401.00	802.00	2869	P7C	1800	2	900	0.72	1200	0.96
	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTE: THE SYSTEM MAXIMUM FLOW RATE AND VELOCITY HAS BEEN DETERMINED BY USING THE FLOW RATE AT THE END OF THE PUMP MANUFACTURER'S PUMP CURVE. ALL DRAIN/OUTLET SYSTEMS SHALL CONFORM WITH THE VIRGINIA GRAEME BAKER ACT AND TO CURRENT ANSI/APSP-16 STANDARD.

SCHEDULE - POOL FIXTURES

POOL ID	EQUIPMENT ID	FIXTURE	QTY.	MANUFACTURER	DESCRIPTION
A	PF 1	DalMAX-SG-185434	2	DALDORADO	SEE DRAIN SCHEDULE
A	PF 2	HYDROSTATIC RELIEF VALVE	2	HAYWARD	2" SP1056 HYDROSTATIC RELIEF VALVE
B	PF 1	DalMAX-SG-183625	2	DALDORADO	SEE DRAIN SCHEDULE
B	PF 2	HYDROSTATIC RELIEF VALVE	2	HAYWARD	2" SP1056 HYDROSTATIC RELIEF VALVE
C	PF 1.1	DalMAX-SG-183634	2	DALDORADO	SEE DRAIN SCHEDULE
C	PF 1.2	DalMAX-SG-183634	2	DALDORADO	SEE DRAIN SCHEDULE
C	PF 1.3	DalMAX-SG-183634	2	DALDORADO	SEE DRAIN SCHEDULE
C	PF 2	HYDROSTATIC RELIEF VALVE	6	HAYWARD	2" SP1056 HYDROSTATIC RELIEF VALVE

NOTE: COORDINATE POOL PIPING INSTALLATION WITH SITE STORM SEWER PIPING CONTRACTOR.



1 PL300 OVERALL PIPING PLAN VIEW
3/16" = 1'-0"

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Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23214
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Date	2025-01-24

PL300
OVERALL PIPING PLAN

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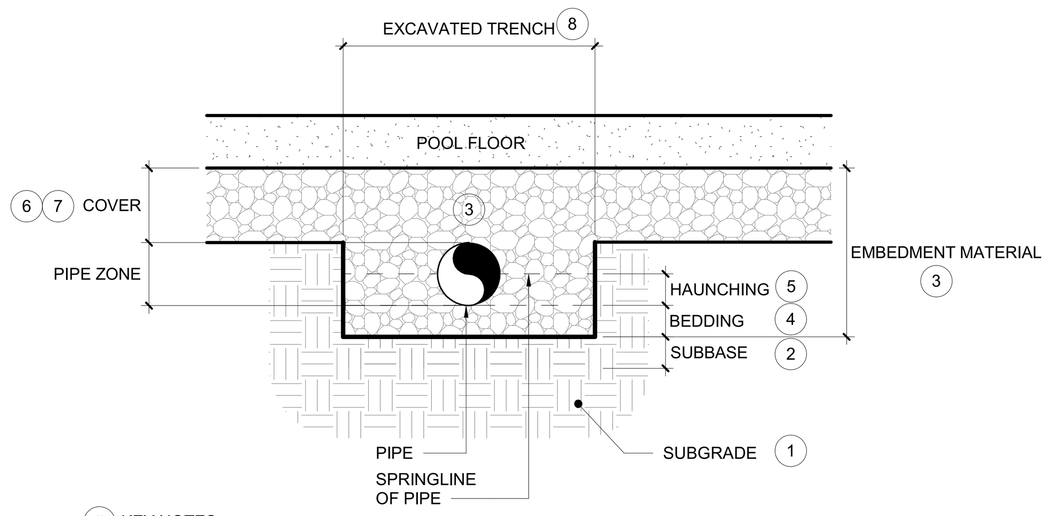
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEET'S ORIGINAL PAGE SIZE

PIPING LEGEND

PIPE DESCRIPTION	PIPE COLOR
AIR:	
ACTIVITY SUPPLY:	
CHEMICAL:	
INLET SUPPLY:	
GRAVITY:	
JET SUPPLY:	
PROPULSION SUPPLY:	
AUTOFILL SENSOR:	
SKIMMER SUCTION:	
SLIDE SUPPLY:	
SUCTION:	

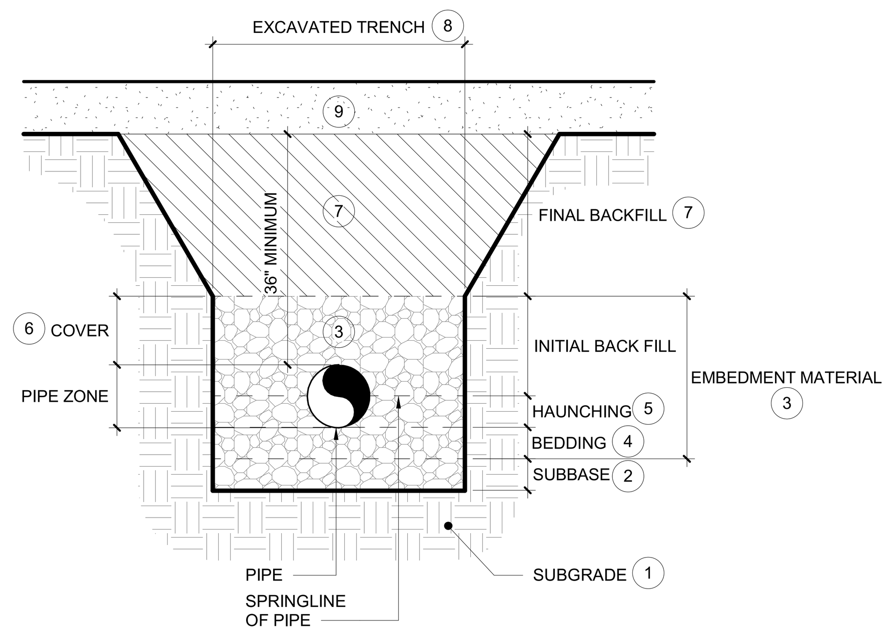
MECHANICAL P&ID SYMBOL LEGEND

EQUIPMENT TYPE	SECTION VIEW	PLAN VIEW
PUMP		
PUMP WITH INTEGRAL STRAINER		
STRAINER		
REGENERATIVE MEDIA FILTER		
HIGH RATE SAND FILTER (HORIZONTAL)		
HIGH RATE SAND FILTER (VERTICAL)		
POOL HEATER		
HEAT EXCHANGER		
UV UNIT		
CHEMICAL CONTROLLER		
CHEMICAL FEED PUMP		
PULSAR CHLORINE FEEDER		
AXIALL CHLORINE FEEDER		
AXIALL ACID FEEDER (ACID RITE)		
CO2 FEEDER		
CHEMICAL STORAGE TANK		
CO2 STORAGE TANK		
AUTO FILL WITH SENSOR		
SURGE TANK VENTILATION FAN		
GEAR OPERATED BUTTERFLY VALVE	G	
LEVER OPERATED BUTTERFLY VALVE		
PNEUMATIC BUTTERFLY VALVE		
TRUE UNION BALL VALVE		
TRUE UNION CHECK VALVE		
ELECTRONIC MODULATING VALVE	M	
ELECTRO-PNEUMATIC MODULATING VALVE	P	
MODULATING FLOAT VALVE		
VENTURI		
SOLENOID VALVE	S	
CHECK VALVE		
WYE STRAINER		
CONCENTRIC REDUCER		
ECCENTRIC REDUCER		
FLANGED BREAK		
COMPOUND GAUGE		
THERMOMETER		
EXPANSION JOINT		
FLOW METER (SENSOR)	FM	
FLOW SWITCH	FS	



KEY NOTES:
1. SUBGRADE: MINIMIZE DISTURBANCE OF EXISTING SOILS ON SIDES AND BELOW PIPE TRENCH DURING EXCAVATION. CLEAR SUBGRADE OF LARGE STONES & ORGANIC MATERIALS.
2. SUBBASE MATERIALS: REQUIRED ONLY IF EXISTING SUBGRADE CONTAINS UNSUITABLE SOILS AND/OR DOES NOT MEET THE REQUIREMENTS OF THE GEOTECHNICAL REPORT FOR UTILITY TRENCHES.
3. EMBEDMENT MATERIALS: ASTM D2487 CLASS 1A OR 1B AGGREGATE, 1.5" MAXIMUM SIZE.
4. BEDDING: MINIMUM 6 INCH THICK AGGREGATE LAYER.
5. HAUNCHING: PLACE AND COMPACT HAUNCHING MATERIALS UNDER AND AROUND PIPE/S UP TO THE PIPE SPRINGLINE BY HAND TO ASSURE CONTINUOUS AND EFFECTIVE PIPE SUPPORT.
6. COVER: MINIMUM 6 INCHES ABOVE TOP OF PIPE.
7. POOL BEDDING COURSE/SUBBASE. SEE PL200 FOR REQUIREMENTS.
8. TRENCH WIDTH FOR EMBEDMENT MATERIALS: MINIMIZE WIDTH TO 6 - 12" BETWEEN TRENCH WALL AND EDGE OF NEAREST PIPE. ALLOW 6" MINIMUM BETWEEN ADJACENT PIPE WALLS WHEN PLACING MULTIPLE PIPES IN A COMMON TRENCH.

GENERAL NOTES:
A. SEE SPECIFICATIONS SECTION 13 11 20 FOR ADDITIONAL POOL PIPE TRENCH MATERIAL AND INSTALLATION REQUIREMENTS.
B. PLACE ALL PIPE TRENCH MATERIALS IN 6" MAXIMUM LOOSE LIFTS.



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6. COVER: MINIMUM 6 INCHES ABOVE TOP OF PIPE.
7. FINAL BACKFILL: USE ON-SITE EXISTING SOILS MEETING THE PROJECT GEOTECHNICAL REPORT REQUIREMENTS FOR BACKFILL MATERIALS. DO NOT USE ORGANIC MATERIAL, CLAY, TOPSOIL, OR OTHER DELETERIOUS SUBSTANCES. SLOPE TRENCH EXCAVATION IN FINAL BACKFILL ZONE AS NEEDED.
8. TRENCH WIDTH FOR EMBEDMENT MATERIALS: MINIMIZE WIDTH TO 6" - 12" BETWEEN TRENCH WALL AND EDGE OF NEAREST PIPE. ALLOW 6" MINIMUM BETWEEN ADJACENT PIPE WALLS WHEN PLACING MULTIPLE PIPES IN A COMMON TRENCH.
9. FINAL GRADE MATERIALS: SEE RELATED PROJECT DRAWINGS AND SPECIFICATIONS FOR SOIL MATERIALS AND PLACEMENT REQUIREMENTS AT FINAL GRADE ELEVATIONS (E.G. DECK, CIVIL, LANDSCAPE, ETC. DRAWINGS).

GENERAL NOTES:
A. SEE SPECIFICATIONS SECTION 13 11 20 FOR ADDITIONAL POOL PIPE TRENCH MATERIAL AND INSTALLATION REQUIREMENTS.
B. PLACE ALL PIPE TRENCH MATERIALS IN 6" MAXIMUM LOOSE LIFTS.
C. COORDINATE WITH OTHER TRADES AS NEEDED TO ASSURE FOOTING/FOUNDATIONS ABOVE DO NOT LOAD THE PIPES. MAINTAIN PROPER CLEARANCES TO PREVENT UNDERMINING OF ADJACENT FOOTINGS/FOUNDATIONS.

GENERAL POOL PIPING AND EQUIPMENT PLAN NOTES

PIPING

1. THE PIPING LAYOUTS ON THESE DRAWINGS ARE SCHEMATIC AND FOR REFERENCE ONLY. PIPING AS SHOWN IS SPREAD OUT FOR CLARITY. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING FINAL PIPE ROUTING AND ELEVATIONS.
2. REDUCE THE USE OF FITTINGS AND LONG PIPE RUNS TO MINIMIZE HEAD LOSS IN THE SYSTEM.
3. ALL OUTDOOR PIPING SHALL BE INSTALLED IN A PIPE TRENCH WITH BEDDING AND COVER MATERIALS PER SPECIFICATIONS. PIPING MAY BE STACKED IN THE PIPE TRENCH.
4. ARROWS DENOTE DIRECTION OF FLOW.
5. REFER TO ALL DISCIPLINES DOCUMENTATION AND COORDINATE ALL PIPING AND EMBEDMENTS WITH AFFECTED TRADES.
6. ALL GRAVITY PIPING SHALL BE INSTALLED AT A MINIMUM SLOPE OF 1" DROP PER 20' LENGTH. ALL OUTDOOR PIPING SHALL BE INSTALLED WITH A SLOPE TO ALLOW COMPLETE DRAINING. PROVIDE WINTERIZING/DRAINING INSTRUCTIONS AND SCHEMATICS TO OWNER.
7. CONTRACTOR SHALL USE SWING JOINTS OR OTHER MEANS AND METHODS AS REQUIRED TO PROVIDE POOL INLET FITTINGS FLUSH AND PERPENDICULAR WITH THE POOL FLOOR AND AS REQUIRED FOR PROPER SLOPE TO DRAIN FOR WINTERIZATION.
8. SUPPORT PIPES PER PL405-1 THRU 8.
9. ALL SUPPORTS, BRACING, FASTENERS AND HARDWARE IN THE SURGE TANK(S) SHALL BE STAINLESS STEEL.
10. THE INTENT OF THESE DRAWINGS IS NOT TO BE INCLUSIVE OF ALL VALVES OR FITTINGS REQUIRED FOR THIS PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE ALL VALVES AND FITTINGS REQUIRED.
11. GUTTER PIPING SIZED TO 100% OF FILTRATION RATE.

PIPE PENETRATIONS

1. SEE BUILDING STRUCTURAL DRAWINGS FOR ALL WALL DIMENSIONS AND WALL/REINFORCING STEEL DIMENSIONS AND DETAILS, INCLUDING REINFORCING REQUIREMENTS AROUND ALL PIPE PENETRATIONS.
2. THE POOL CONTRACTOR SHALL FURNISH ALL SLEEVES FOR THE PENETRATIONS SHOWN ON THE POOL DRAWINGS.
3. THE SLEEVES SHALL BE INSTALLED BY THE BUILDING CONTRACTOR DURING THE STEEL AND FORMWORK PLACEMENT. BUILDING CONTRACTOR SHALL COORDINATE WITH THE POOL CONTRACTOR DURING PLACEMENT AND OBTAIN SLEEVE LOCATION APPROVAL FROM THE POOL CONTRACTOR PRIOR TO POURING THE WALLS.
4. THE POOL CONTRACTOR SHALL PROVIDE ALL LINK-SEALS REQUIRED IN THE PIPE PENETRATIONS
5. ALL PIPE PENETRATION DRAWINGS AND DIMENSIONS ARE SPECIFIC TO THE WTI BASIS OF DESIGN POOL EQUIPMENT AND LAYOUTS AS SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FINAL PENETRATION LOCATIONS AND SIZES BASED ON ENGINEER APPROVED EQUIPMENT SELECTIONS AND ACTUAL SITE CONDITIONS. PROVIDE SHOP DRAWINGS TO POOL ENGINEER
6. REFER TO PL211-7 FOR REINFORCEMENT AT PIPE PENETRATIONS.
7. REFER TO STRUCTURAL DRAWINGS FOR FUTURE CORED OPENINGS.
8. SEE PENETRATION SCHEDULE FOR ALL PIPE PENETRATIONS SHOWN IN THE ELEVATION DETAILS ON PL600.

MECHANICAL EQUIPMENT

1. CONTRACTOR SHALL PROVIDE EQUIPMENT LAYOUTS PER PLANS. IF ALTERNATE LAYOUT IS REQUESTED, CONTRACTOR SHALL PROVIDE SCALED DRAWING LAYOUT FOR REVIEW INDICATING POOL EQUIPMENT, PIPING, PIPE SUPPORTS, REQUIRED CLEARANCES, AND SERVICE ACCESS.
2. REFER TO ARCHITECTURAL PLANS FOR ACTUAL ROOM DIMENSIONS AND FINISHED FLOOR ELEVATIONS.
3. VERIFY EQUIPMENT PAD HEIGHT REQUIREMENTS FROM MANUFACTURER AND PROVIDE SHOP DRAWINGS TO POOL ENGINEER
4. PROVIDE MINIMUM 30" SERVICE ACCESS BETWEEN PUMPS. CONTRACTOR SHALL PROVIDE THE GREATER OF MANUFACTURER OR CODE REQUIRED CLEARANCES AROUND AND ABOVE ALL OTHER POOL EQUIPMENT.
5. HEATER FLOW IS MINIMUM PROVIDED BY MANUFACTURER.

POOL CHEMICAL STORAGE AND PIPING NOTES

1. ALL CHEMICAL ROOM DOORS AND CONTAINERS SHALL BE PROVIDED WITH SIGNAGE AS REQUIRED BY FIRE CODE. SEE ARCHITECTURAL DRAWING FOR THE DOOR LABEL REQUIREMENTS.
2. PROVIDE ALL CHEMICAL FEED PUMPS WITH "TUBE FAILURE DETECTION". THIS TECHNOLOGY DETECTS TUBING FAILURE AND WILL AUTOMATICALLY SHUT OFF THE PUMP AND ENERGIZE A RELAY. INSTALL RELAY TO PERMIT COMMUNICATIONS WITH THE CHEMICAL CONTROLLER SO THAT THE OPERATOR CAN BE NOTIFIED OF THE PUMP STATUS BEING IN AN ALARM/OFF CONDITION.
3. DO NOT LOCATE CHEMICAL INJECTION POINTS ABOVE DOORWAY, CHEMICAL FEED PUMPS, OR ELECTRICAL OUTLETS.
4. CHEMICAL TANKS WITHIN THE CHLORINE AND ACID ROOMS SHALL BE FILLED USING A TRANSFER METHOD IN COMPLIANCE WITH STATE & LOCAL FIRE CODES. BULK LIQUID DELIVERY SHALL BE PUMPED FROM A TRUCK TO THE TANK VIA AN AIR DRIVEN PUMP ON THE TRUCK. THE TRUCK PUMPING SYSTEM SHALL HAVE A ONE YEAR AND 5 YEAR TANK INSPECTION AS REQUIRED BY DOT. THIS INSPECTION SHALL INCLUDE TANK INTEGRITY, ALL ASSOCIATED PLUMBING, PUMPS AND CONNECTIONS. INSPECTIONS ARE TO PREVENT ACCIDENTAL LEAKS OR SPILLS DURING THE PUMPING FUNCTION.
5. SODIUM HYPOCHLORITE SHALL BE DELIVERED INTO DOUBLE-WALLED PROPERLY SIGNED STORAGE TANK. SODIUM HYPOCHLORITE TANKS SHALL HAVE LOCKING FILLING DEVICE (2" MALE CAMLOCK WITH CAP) TO INSURE ONLY LIQUID SODIUM HYPOCHLORITE IS LOADED INTO TANK. FILL DEVICE IS UNIQUE TO SODIUM HYPOCHLORITE. TANKS SHALL BE PROPERLY COVERED.
6. ACID SHALL BE DELIVERED INTO DOUBLE-WALLED PROPERLY SIZED STORAGE TANK. ACID TANKS SHALL HAVE LOCKING FILL DEVICES (1 1/4" FEMALE CAMLOCK WITH PLUG) TO INSURE ONLY ACID IS LOADED INTO TANK. FILL DEVICE IS UNIQUE TO ACID. THE CHEMICAL SUPPLIER SHALL EQUIP ACID TANKS FOR THE DELIVERY OF BULK ACID WITH ACID FUME SUPPRESSION SYSTEMS. ALL BULK ACID TANKS SHALL BE 100% CONTAINED TO DIRECT ACID FUMES INTO FUME SUPPRESSION TANK.
7. ALL CHEMICALS TO BE STORED PER MANUFACTURER'S RECOMMENDATIONS.
8. THE DIRECTION OF FLOW FOR THE RECIRCULATION EQUIPMENT SHALL BE LABELED CLEARLY WITH DIRECTIONAL SYMBOLS SUCH AS ARROWS ON ALL PIPING IN THE EQUIPMENT AREA PER REQUIREMENTS OF 13 11 20 SPECIFICATIONS.
9. WHERE THE RECIRCULATION EQUIPMENT FOR MORE THAN ONE POOL IS LOCATED ON SITE, THE EQUIPMENT SHALL BE MARKED AS TO WHICH POOL THE SYSTEM SERVES.
10. PLUMBING LINES SHALL BE LABELED CLEARLY WITH THE SOURCE OR DESTINATION DESCRIPTIONS PER REQUIREMENTS OF 13 11 20 SPECIFICATIONS.
11. EACH VALVE SHALL BE INSTALLED IN THE EQUIPMENT AREA AND LABELED AS TO ITS PURPOSE PER REQUIREMENTS OF 13 11 20 SPECIFICATIONS.
12. PER SPECIFICATIONS SECTION 13 11 13, SUBMIT AN ELECTRONIC VERSION OF THE PIPE AND VALVE CHART FOR EACH PIPING SYSTEM TO THE ARCHITECT/ENGINEER FOR APPROVAL. CHART TO CONSIST OF ISOMETRIC DRAWINGS OR PIPING LAYOUTS SHOWING AND IDENTIFYING EACH VALVE AND DESCRIBING ITS FUNCTION. UPON COMPLETION OF THE WORK HANG IN A CONSPICUOUS LOCATION IN THE EQUIPMENT ROOM ONE (1) COPY OF EACH CHART TO A RIGID BACKBOARD WITH CLEAR LACQUER PLACED UNDER GLASS AND FRAMED.

PIPING NOTES

REFER TO DIVISION 13 SPECIFICATIONS FOR DETAILS

PIPING

A. ALL PIPING SHALL BE IN ACCORDANCE WITH THE CALIFORNIA CODE OF REGULATIONS – THE DESIGN, OPERATION, AND MAINTENANCE OF PUBLIC SWIMMING POOLS, CALIFORNIA DEPARTMENT OF PUBLIC HEALTH CODE, THE A.S.T.M. DESIGNATION NUMBER D-1785, AND THE NSF SEAL FOR POTABLE WATER.
B. ALL PIPING DESIGNED FOR 6'/SECOND MAX SUCTION VELOCITY AND 8'/SECOND MAXIMUM PRESSURE VELOCITY.
C. MAIN DRAIN PIPING AND GUTTER PIPING ARE DESIGNED TO CARRY MINIMUM 100% OF THE RECIRCULATION RATE.
D. ALL PIPING MUST BE LAID ON A GRADE SO IT WILL DRAIN COMPLETELY BY GRAVITY TO PREVENT DAMAGE DURING FREEZING WEATHER. MAIN DRAIN LINE PIPING MUST BE LAID ON A GRADE SO THAT (A) ALL PIPING FROM BENEATH THE POOL TO THE ELEVATION CHANGE SHALL PITCH TO DRAIN TO THE POOL MAIN DRAIN SUMPS AND; (B) ALL PIPING FROM THE ELEVATION CHANGE TO THE SURGE TANK SHALL PITCH TO DRAIN TO THE SURGE TANK.
E. IN ALL INSTANCES WHERE GRAVITY DRAINAGE IS NOT PROVIDED THE CONTRACTOR SHALL INSTALL DRAIN VALVES SO THAT ALL LINES CAN BE DRAINED COMPLETELY TO SURGE TANK OR ANOTHER APPROVED LOCATION. DRAINAGE PLUGS SHALL BE PROVIDED IN THE PIPING SYSTEM TO ALLOW WINTERIZATION OF THE POOL PIPING.
F. CONTRACTOR SHALL PROVIDE OPERATION, FILLING, EMPTYING, WINTERIZATION, AND START-UP INSTRUCTIONS TO OWNER.
G. ALL ELEVATIONS TO BE FIELD VERIFIED FOR PROPER PITCH AND DRAINAGE. PITCH TO BE APPROXIMATELY 1"/20'-0".
H. POOL CONTRACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE FITTING QUANTITY TO REDUCE TOTAL DYNAMIC HEAD.
I. ALL DRAWINGS ARE INTENDED FOR SCHEMATIC USE ONLY. FINAL LOCATIONS SHALL BE FIELD VERIFIED WITH ALL OTHER TRADES, BY CONTRACTOR. CONTRACTOR SHALL COORDINATE ALL WORK WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, STRUCTURAL, PLUMBING, AND CIVIL DRAWINGS.

DRAINS

A. ALL OVERFLOW AND MAIN DRAIN GRATING SYSTEMS ARE DESIGNED TO CARRY 100% OF RECIRCULATION RATE AT A VELOCITY NOT TO EXCEED 1.5'/SECOND THROUGH THE OPEN AREA OF THE GRATE.
B. ALL SUBMERGED DRAIN/OUTLET SYSTEMS SHALL CONFORM WITH THE VIRGINIA GRAEME BAKER ACT AND TO CURRENT ANSI/APSP-16 STANDARD.
C. FILTER DRAIN/BACKWASH LINE, POOL DRAIN LINE, SURGE TANK DRAIN LINE, AND SURGE TANK OVERFLOW LINE TO DISCHARGE TO SEWER WITH AN AIR GAP COMPLIANT WITH LOCAL REQUIREMENTS.

GAUGES:

A. COMPOUND GAUGES TO BE INSTALLED ON ALL PUMP SUCTION AND DISCHARGE LINES.

VALVES:

A. PROVIDE GEAR-OPERATED SUBSURFACE BUTTERFLY VALVES WITH VALVE STEM EXTENSIONS FOR ALL POOL AND SURGE TANK DRAIN LINES.
B. EACH VALVE SHALL HAVE A PERMANENT IDENTIFYING LABEL OR TAG ATTACHED TO IT. THE SEQUENCE OF OPERATION, BRIEFLY STATED, SHALL BE PROMINENTLY DISPLAYED.

FLOW METERS:

A. FLOW METERS SHALL BE PROVIDED IN THE FILTRATION PUMP DISCHARGE LINE AND IN EACH INLET RETURN LINE, AS INDICATED ON THE DRAWINGS.
B. UNINTERRUPTED FLOW SHALL BE PROVIDED TO THE FLOWMETER BY INSTALLING THEM ON STRAIGHT LENGTHS OF PIPE WITHOUT ANY VALVES, ELBOWS, OR OTHER SOURCES OF TURBULENCE WITHIN MINIMUM 10 PIPE DIAMETERS UPSTREAM AND 5 PIPE DIAMETERS DOWNSTREAM OF THE FLOW METERS OR INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
C. MAIN FLOW METER SHALL BE USED TO MONITOR BACKWASH RATE UNLESS OTHERWISE INDICATED IN THE DESIGN DRAWINGS.

FILTERS:

A. FILTERS SHALL BE PROVIDED WITH THE FOLLOWING APPROPRIATELY LOCATED ACCESSORIES: PRESSURE GAUGES, BACKWASH SIGHT GLASS ON WASTE DISCHARGE LINE (SAND) OR PRECOAT LINE (RM), AN AIR RELIEF VALVE AT THE HIGH POINT OF THE FILTER, AND A VALVED TANK DRAIN LINE.

HEATING SYSTEM:

A. SHALL BE EQUIPPED WITH THERMOMETERS MEASURING 80-240 DEGREES F WITH 2 DEGREE GRADUATIONS, AUTOMATIC TEMPERATURE LIMITING DEVICE, FLOW SWITCH, AND HEAT BYPASS VALVE.
B. ALL INFLUENT AND EFFLUENT HOT WATER PIPING TO BE PROVIDED WITH MATERIAL AS SCHEDULED.
C. POOL HEATER PRESSURE RELIEF VALVE TO BE PROVIDED AND PIPED WITHIN 6" OF FLOOR.
D. THE AUTOMATIC TEMPERATURE SWITCH ON THE BLENDED WATER SYSTEM SHALL BE SET FOR A MAXIMUM OF 110 DEGREES F.
E. FURNISH AND INSTALL THERMOMETERS IN HEATER INFLUENT AND EFFLUENT PIPING AND DOWNSTREAM IN THE BLENDED WATER SYSTEM.
F. HEATER THERMOSTAT SHALL BE INACCESSIBLE TO BATHERS.
G. VENTING OF COMBUSTION/VENTILATION AIR FOR GAS, OR OTHER FUEL-BURNING WATER HEATERS SHALL BE PROVIDED AS REQUIRED BY THE HEATER MANUFACTURER.

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23214
Issue	PERMIT & BID SET
Date	2025-01-24

PL301
MECHANICAL NOTES

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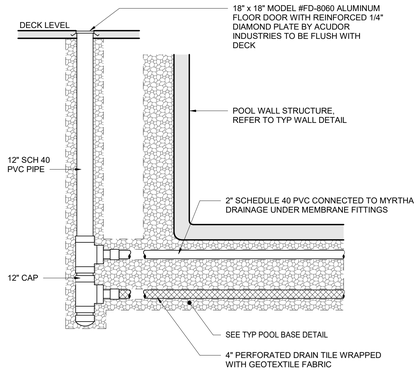
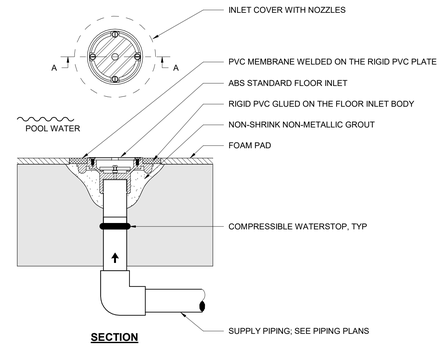


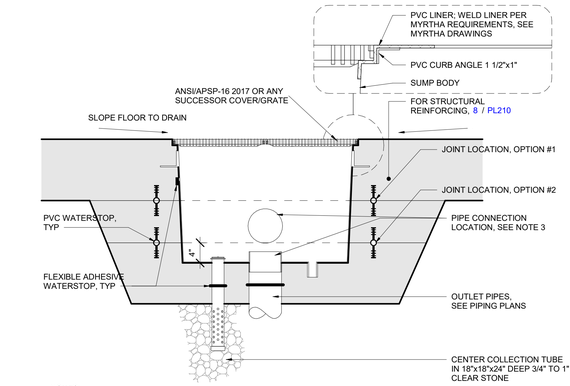
7 | OBSERVATION WELL (MYRTHA) DETAIL VIEW
PL302 | NOT TO SCALE



SECTION

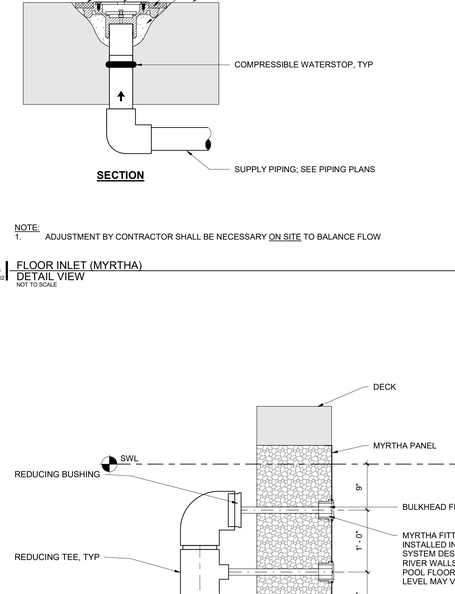
NOTE:
1. ADJUSTMENT BY CONTRACTOR SHALL BE NECESSARY ON SITE TO BALANCE FLOW.

4 | FLOOR INLET (MYRTHA WITH SOFT FLOOR) DETAIL VIEW
PL303 | NOT TO SCALE



NOTES:
1. ALL DRAIN/OUTLET SYSTEMS SHALL CONFORM WITH THE VIRGINIA GRAEME BAKER ACT AND TO CURRENT ANSI/APSP-16 STANDARD. VERIFY GRATE DIMENSIONS AND OUTLET REQUIREMENTS WITH GRATE/SUMP MANUFACTURER PRIOR TO SUBMITTING SHOP DRAWINGS.
2. THE FIBERGLASS SUMP SHALL BE SUPPLIED WITH THE GRATE AS INDICATED IN THE DRAIN SCH. SUMP MATERIALS SHALL MEET OR EXCEED THE SCHEDULED MANUFACTURER'S SPECIFICATION: 8 OZ. FIBERGLASS MAT WITH MARINE GRADE WHITE GELCOAT AND 2" MINIMUM FRP WATERSTOP AROUND THE OUTSIDE PERIMETER.
3. AT CONTRACTOR'S OPTION, SUMP MAY HAVE BOTTOM OR SIDE OUTLET PIPE CONNECTION.
4. CONTRACTOR SHALL INCLUDE ALL POOL DRAIN/WINTERIZATION PIPE CONNECTIONS AS SHOWN ON PIPING DRAWINGS.
5. ALL SUMPS REQUIRE A MINIMUM OF ONE HYDROSTATIC RELIEF PORT AND 2" VALVE. (HAYWARD MODEL SP1056) WITH COLLECTION TUBE PER SUMP, UNLESS OTHERWISE NOTED. VERTICALLY INSTALLED SUMPS, ELEVATED POOLS AND/OR POOLS CONSTRUCTED ON A VOID FORM DO NOT REQUIRE A HYDROSTATIC RELIEF VALVE SYSTEM. UNUSED HYDROSTATIC PORTS SHALL BE PLUGGED.
6. SEE DRAIN SCHEDULE AND PIPE PLANS.
7. SECURE ALL GRATING TO DRAIN SUMP WITH CORROSION RESISTANT FASTENERS IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS. FASTENERS SHALL NOT BE REMOVABLE WITHOUT THE USE OF A TOOL AND SHALL MEET ALL CURRENT ANSI/APSP/ICC-16 REQUIREMENTS. INSPECT ALL GRATING AND EACH FASTENER TO ASSURE THEY ARE IN PLACE AND PROPERLY SECURED PRIOR TO OPENING THE POOL FOR PUBLIC USE.
8. PROTECT DRAIN FROM EXTERNAL PRESSURE DURING INSTALLATION.
9. PROVIDE A REMOVABLE PLYWOOD AND A REUSABLE 1/4" PVC TOP COVER PROTECTOR WITH STAINLESS STEEL HARDWARE TO SHIELD THE INTERNALS OF EACH DRAIN SUMP FROM DEBRIS DURING CONSTRUCTION AND FOR FUTURE OWNER USE DURING WINTERIZATION AND/OR SHUTDOWN.
10. SUPPLY EACH SUMP CONNECTION PORT WITH A THREADED OR FLANGED ADAPTOR CONNECTION INSIDE THE SUMP. INCLUDE CORRESPONDING THREADED/FLANGED ADAPTOR PLUGS/FITTINGS AND STAINLESS STEEL HARDWARE FOR THE PURPOSES OF 50 PSI PRESSURE TESTING AND FUTURE WINTERIZATION AND/OR SHUTDOWN.
11. LOCATE ONE HORIZONTAL JOINT WITH CONTINUOUS PVC WATERSTOP IN THE CONCRETE SUMP AT EITHER LOCATION SHOWN ABOVE (OPTION #1 OR OPTION #2). INSTALL FLEXIBLE ADHESIVE WATERSTOPS AROUND THE FIBERGLASS SUMP AND EACH CONNECTING PIPE, PER SPECIFICATIONS.

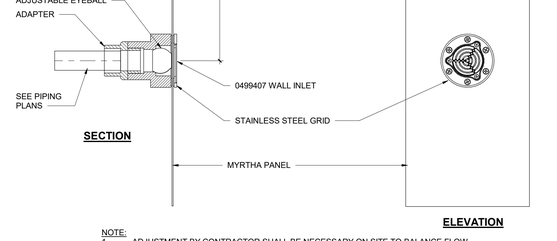
1 | MAIN DRAIN DETAIL VIEW
PL303 | NOT TO SCALE



SECTION

NOTE:
1. ADJUSTMENT BY CONTRACTOR SHALL BE NECESSARY ON SITE TO BALANCE FLOW

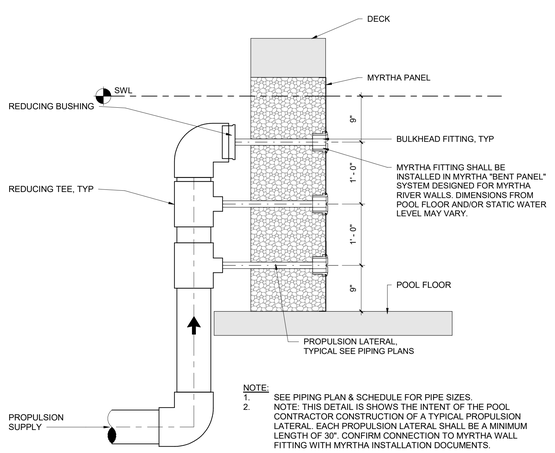
5 | FLOOR INLET (MYRTHA) DETAIL VIEW
PL303 | NOT TO SCALE



SECTION **ELEVATION**

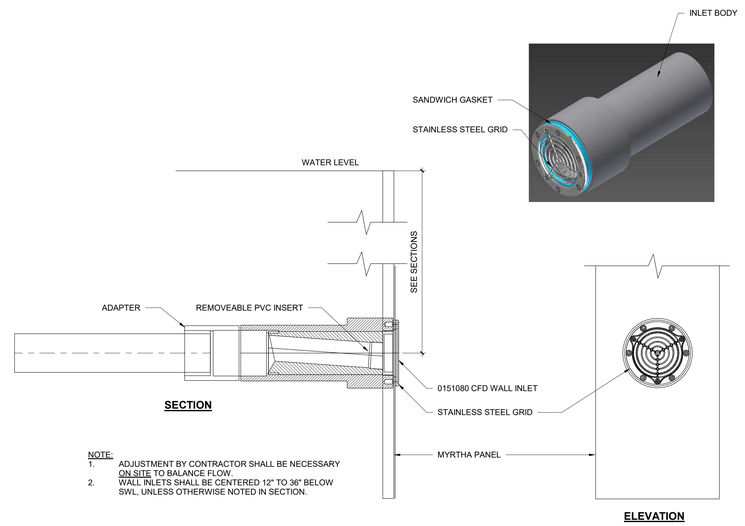
NOTE:
1. ADJUSTMENT BY CONTRACTOR SHALL BE NECESSARY ON SITE TO BALANCE FLOW

2 | WALL INLET (MYRTHA) DETAIL VIEW
PL303 | NOT TO SCALE



NOTE:
1. SEE PIPING PLAN & SCHEDULE FOR PIPE SIZES.
2. NOTE: THIS DETAIL IS SHOWS THE INTENT OF THE POOL CONTRACTOR CONSTRUCTION OF A TYPICAL PROPULSION LATERAL. EACH PROPULSION LATERAL SHALL BE A MINIMUM LENGTH OF 30". CONFIRM CONNECTION TO MYRTHA WALL FITTING WITH MYRTHA INSTALLATION DOCUMENTS.

6 | PROPULSION (MYRTHA) DETAIL VIEW
PL303 | NOT TO SCALE



SECTION **ELEVATION**

NOTE:
1. ADJUSTMENT BY CONTRACTOR SHALL BE NECESSARY ON SITE TO BALANCE FLOW.
2. WALL INLETS SHALL BE CENTERED 12" TO 36" BELOW SWL, UNLESS OTHERWISE NOTED IN SECTION.

3 | CFD WALL INLET (MYRTHA) DETAIL VIEW
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Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23214
Issue	PERMIT & BID SET
Date	2025-01-24

PL302
GENERAL DETAILS

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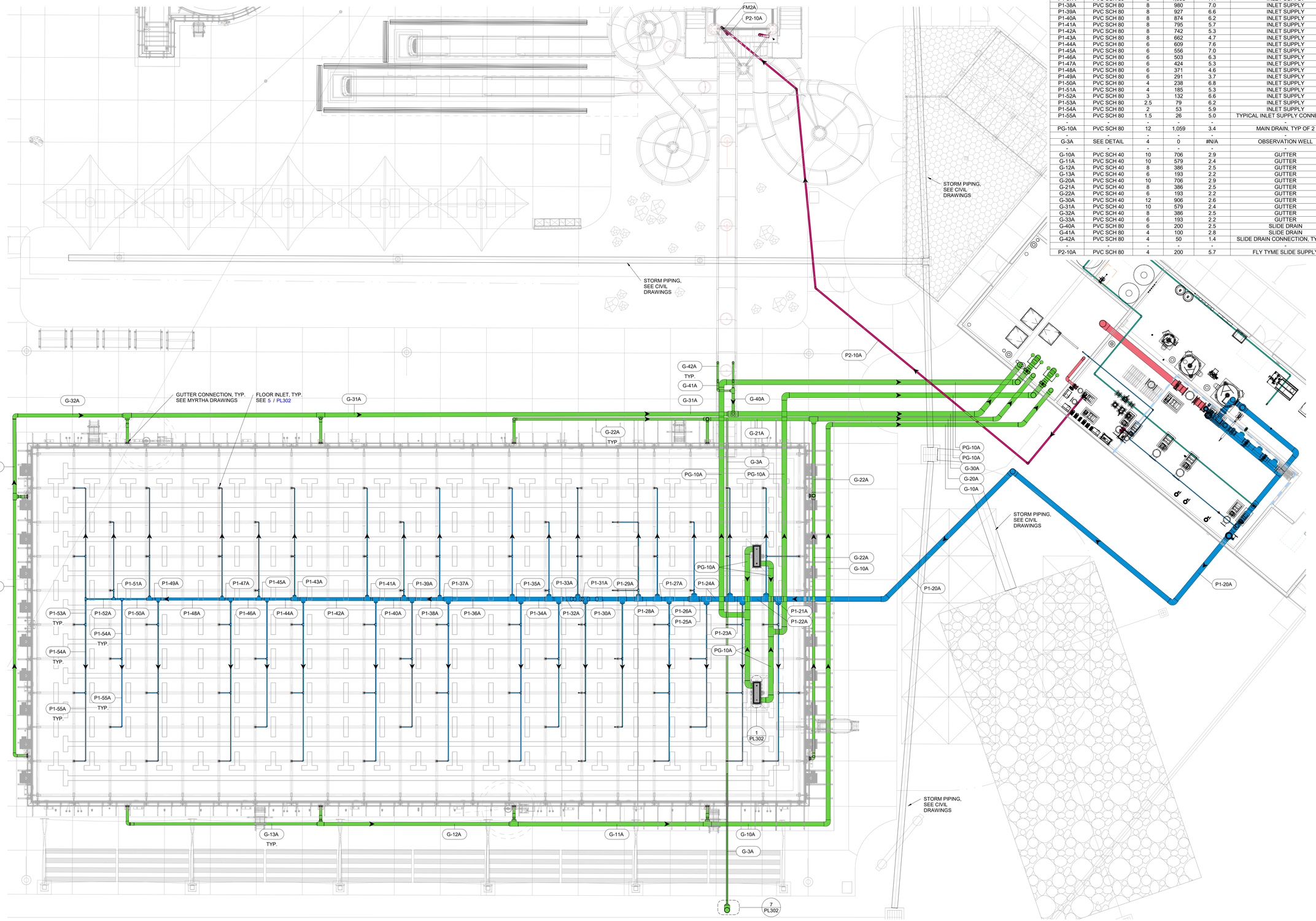
POOL A - 50M COMPETITION POOL PIPE SCHEDULE

PIPE ID	TYPE	NPS (in)	FLOW (gpm)	VELOCITY (fps)	DESCRIPTION
P1-20A	PVC SCH 80	12	2,092	6.7	INLET SUPPLY
P1-21A	PVC SCH 80	12	2,013	6.4	INLET SUPPLY
P1-22A	PVC SCH 80	12	1,960	6.3	INLET SUPPLY
P1-23A	PVC SCH 80	12	1,881	6.0	INLET SUPPLY
P1-24A	PVC SCH 80	12	1,828	5.9	INLET SUPPLY
P1-25A	PVC SCH 80	12	1,775	5.7	INLET SUPPLY
P1-26A	PVC SCH 80	10	1,722	7.8	INLET SUPPLY
P1-27A	PVC SCH 80	10	1,642	7.4	INLET SUPPLY
P1-28A	PVC SCH 80	10	1,589	7.2	INLET SUPPLY
P1-29A	PVC SCH 80	10	1,536	7.0	INLET SUPPLY
P1-30A	PVC SCH 80	10	1,483	6.7	INLET SUPPLY
P1-31A	PVC SCH 80	10	1,404	6.4	INLET SUPPLY
P1-32A	PVC SCH 80	10	1,351	6.1	INLET SUPPLY
P1-33A	PVC SCH 80	10	1,298	5.9	INLET SUPPLY
P1-34A	PVC SCH 80	10	1,245	5.6	INLET SUPPLY
P1-35A	PVC SCH 80	10	1,165	5.3	INLET SUPPLY
P1-36A	PVC SCH 80	8	1,112	7.9	INLET SUPPLY
P1-37A	PVC SCH 80	8	1,033	7.4	INLET SUPPLY
P1-38A	PVC SCH 80	8	980	7.0	INLET SUPPLY
P1-39A	PVC SCH 80	8	927	6.6	INLET SUPPLY
P1-40A	PVC SCH 80	8	874	6.2	INLET SUPPLY
P1-41A	PVC SCH 80	8	795	5.7	INLET SUPPLY
P1-42A	PVC SCH 80	8	742	5.3	INLET SUPPLY
P1-43A	PVC SCH 80	8	662	4.7	INLET SUPPLY
P1-44A	PVC SCH 80	6	609	7.6	INLET SUPPLY
P1-45A	PVC SCH 80	6	556	7.0	INLET SUPPLY
P1-46A	PVC SCH 80	6	503	6.3	INLET SUPPLY
P1-47A	PVC SCH 80	6	424	5.3	INLET SUPPLY
P1-48A	PVC SCH 80	6	371	4.6	INLET SUPPLY
P1-49A	PVC SCH 80	6	291	3.7	INLET SUPPLY
P1-50A	PVC SCH 80	4	238	6.8	INLET SUPPLY
P1-51A	PVC SCH 80	4	185	5.3	INLET SUPPLY
P1-52A	PVC SCH 80	3	132	6.6	INLET SUPPLY
P1-53A	PVC SCH 80	2.5	79	6.2	INLET SUPPLY
P1-54A	PVC SCH 80	2	53	5.9	INLET SUPPLY
P1-55A	PVC SCH 80	1.5	26	5.0	TYPICAL INLET SUPPLY CONNECTION
-	-	-	-	-	-
PG-10A	PVC SCH 80	12	1,059	3.4	MAIN DRAIN, TYP OF 2
-	-	-	-	-	-
G-3A	SEE DETAIL	4	0	#N/A	OBSERVATION WELL
-	-	-	-	-	-
G-10A	PVC SCH 40	10	706	2.9	GUTTER
G-11A	PVC SCH 40	10	579	2.4	GUTTER
G-12A	PVC SCH 40	8	386	2.5	GUTTER
G-13A	PVC SCH 40	6	193	2.2	GUTTER
G-20A	PVC SCH 40	10	706	2.9	GUTTER
G-21A	PVC SCH 40	8	386	2.5	GUTTER
G-22A	PVC SCH 40	6	193	2.2	GUTTER
G-30A	PVC SCH 40	12	906	2.6	GUTTER
G-31A	PVC SCH 40	10	579	2.4	GUTTER
G-32A	PVC SCH 40	8	386	2.5	GUTTER
G-33A	PVC SCH 40	6	193	2.2	GUTTER
G-40A	PVC SCH 80	6	200	2.5	SLIDE DRAIN
G-41A	PVC SCH 80	4	100	2.8	SLIDE DRAIN
G-42A	PVC SCH 80	4	50	1.4	SLIDE DRAIN CONNECTION, TYP OF 4
-	-	-	-	-	-
P2-10A	PVC SCH 80	4	200	5.7	FLY TYME SLIDE SUPPLY



1 POOL A - 50M COMPETITION POOL PIPING PLAN
PL310 PLAN VIEW
1/8" = 1'-0"

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PL310
POOL A - LAP POOL PIPING PLAN

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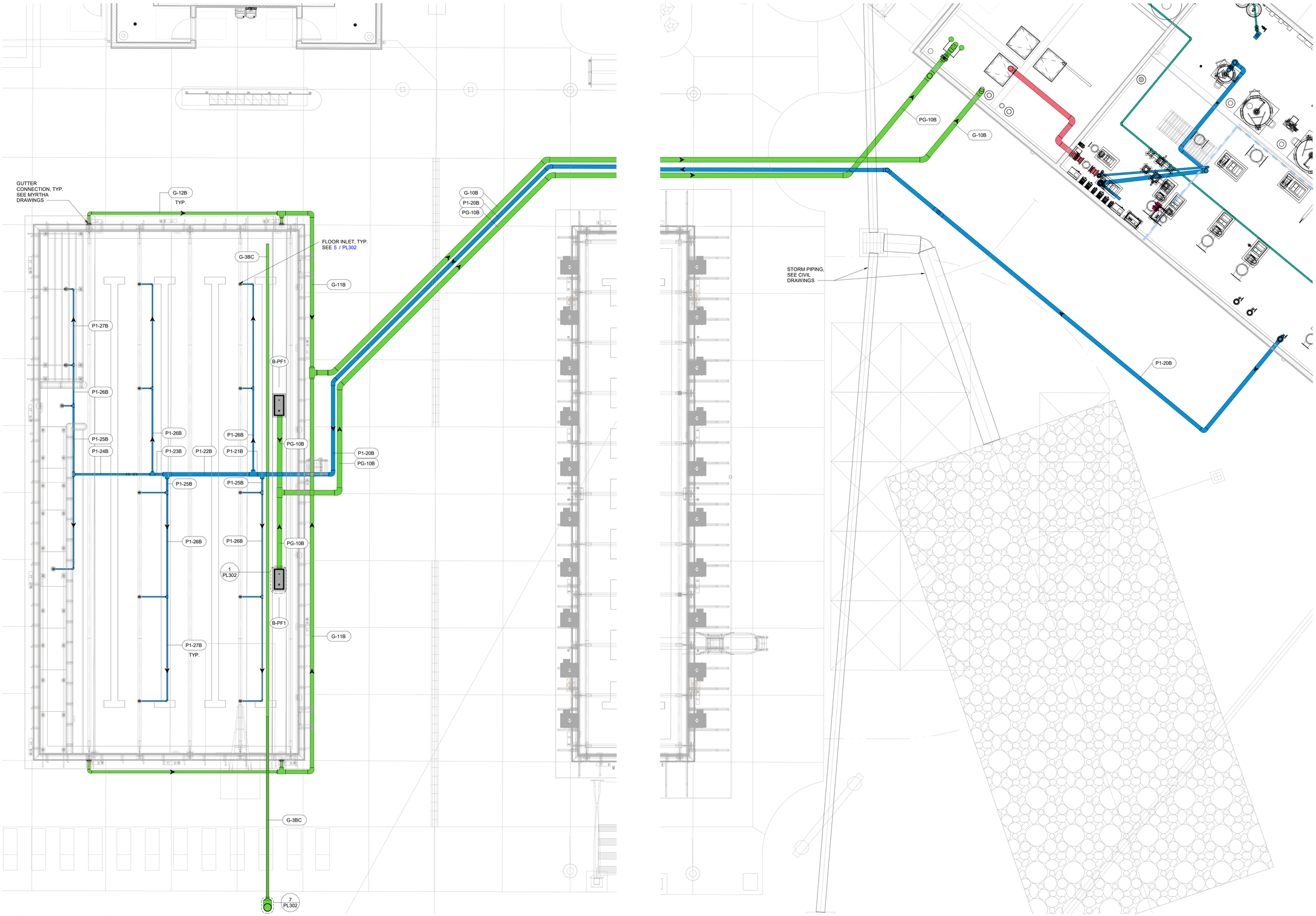
POOL B - PROGRAM POOL PIPE SCHEDULE

PIPE ID	TYPE	NPS (in)	FLOW (gpm)	VELOCITY (fps)	DESCRIPTION
P1-20B	PVC SCH 80	6	440	5.5	INLET SUPPLY
P1-21B	PVC SCH 80	6	345	4.3	INLET SUPPLY
P1-22B	PVC SCH 80	6	283	3.5	INLET SUPPLY
P1-23B	PVC SCH 80	4	188	5.4	INLET SUPPLY
P1-24B	PVC SCH 80	3	126	6.3	INLET SUPPLY
P1-25B	PVC SCH 80	2.5	94	7.3	INLET SUPPLY
P1-26B	PVC SCH 80	2	63	7.0	INLET SUPPLY
P1-27B	PVC SCH 80	1.5	31	5.9	TYPICAL INLET SUPPLY CONNECTION
-	-	-	-	-	-
G-3B	SEE DETAIL	4	0	#N/A	OBSERVATION WELL
PG-10B	PVC SCH 80	8	440	3.1	GUTTER
G-10B	PVC SCH 40	8	440	2.8	GUTTER
G-11B	PVC SCH 40	6	220	2.5	GUTTER
G-12B	PVC SCH 40	4	110	2.8	GUTTER
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-



1 PL320 POOL B - PROGRAM POOL PIPING PLAN
PLAN VIEW
3/16" = 1'-0"

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Date	2025-01-24

PL320
POOL B - PROGRAM POOL PIPING PLAN

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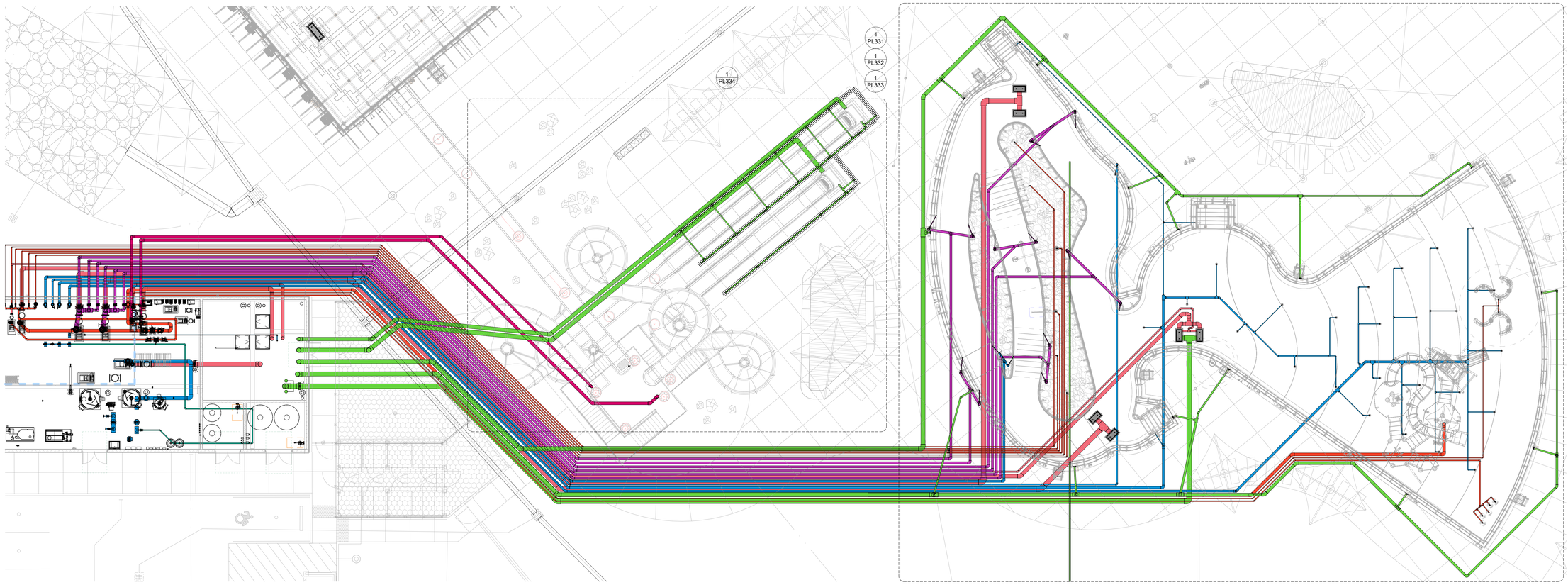

1 | POOL C - LEISURE POOL PIPING TO MECHANICAL ROOM
PL330 | PLAN VIEW
3/32" = 1'-0"

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23214
Issue	PERMIT & BID SET
Date	2025-01-24

PL330
POOL C - LEISURE POOL PIPING PLAN

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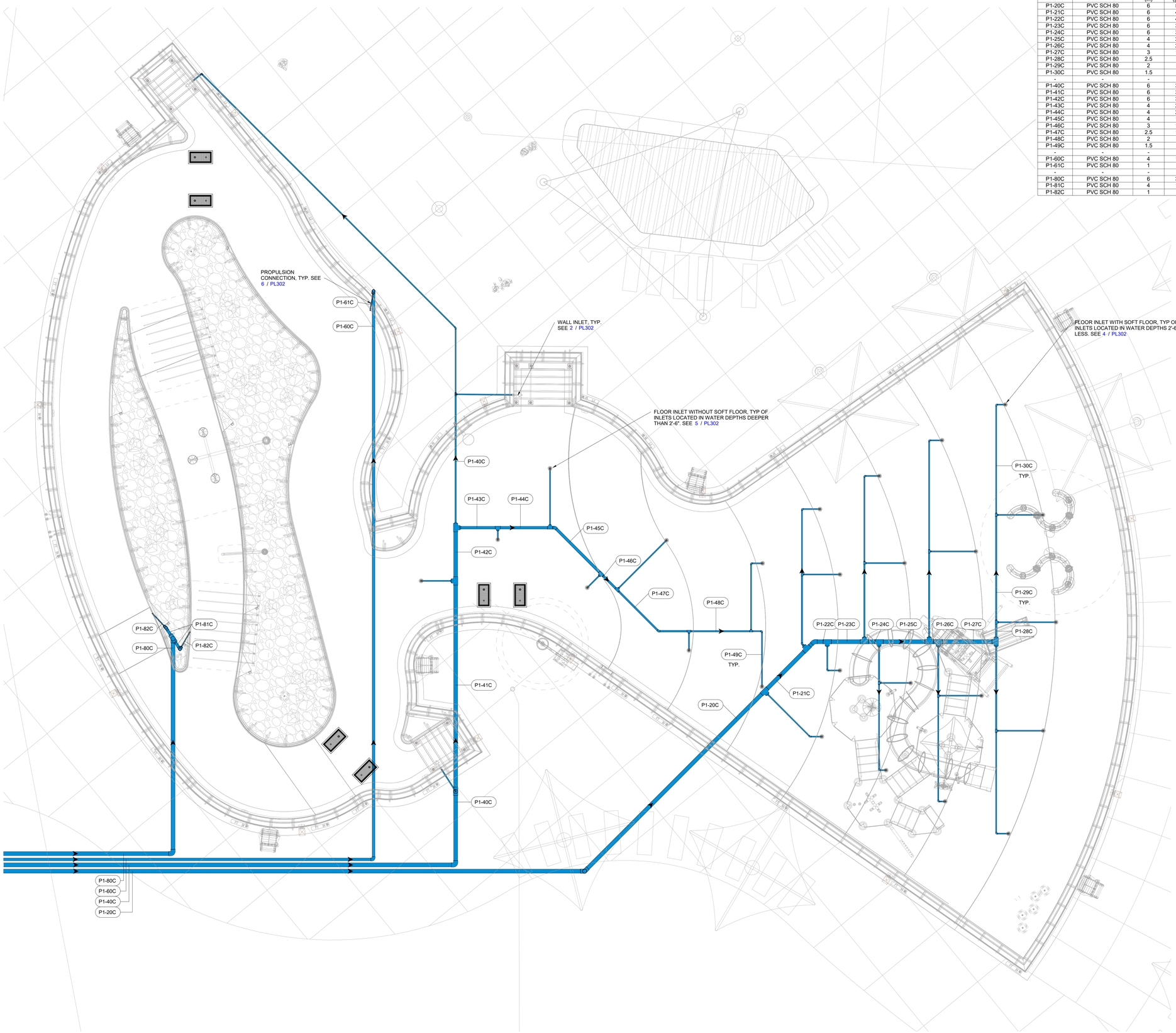
POOL C - LEISURE POOL PIPE SCHEDULE

PIPE ID	TYPE	NPS (in)	FLOW (gpm)	VELOCITY (fps)	DESCRIPTION
P1-20C	PVC SCH 80	6	509	6.4	INLET SUPPLY (60 MIN TURNOVER)
P1-21C	PVC SCH 80	6	479	6.0	INLET SUPPLY (60 MIN TURNOVER)
P1-22C	PVC SCH 80	6	419	5.3	INLET SUPPLY (60 MIN TURNOVER)
P1-23C	PVC SCH 80	6	389	4.9	INLET SUPPLY (60 MIN TURNOVER)
P1-24C	PVC SCH 80	6	329	4.1	INLET SUPPLY (60 MIN TURNOVER)
P1-25C	PVC SCH 80	4	269	7.7	INLET SUPPLY (60 MIN TURNOVER)
P1-26C	PVC SCH 80	4	210	6.0	INLET SUPPLY (60 MIN TURNOVER)
P1-27C	PVC SCH 80	3	150	7.5	INLET SUPPLY (60 MIN TURNOVER)
P1-28C	PVC SCH 80	2.5	90	7.0	INLET SUPPLY (60 MIN TURNOVER)
P1-29C	PVC SCH 80	2	60	6.7	INLET SUPPLY (60 MIN TURNOVER)
P1-30C	PVC SCH 80	1.5	30	5.6	TYPICAL INLET SUPPLY CONNECTION
-	-	-	-	-	-
P1-40C	PVC SCH 80	6	367	4.6	INLET SUPPLY (120 MIN TURNOVER)
P1-41C	PVC SCH 80	6	334	4.2	INLET SUPPLY (120 MIN TURNOVER)
P1-42C	PVC SCH 80	6	301	3.8	INLET SUPPLY (120 MIN TURNOVER)
P1-43C	PVC SCH 80	4	234	6.7	INLET SUPPLY (120 MIN TURNOVER)
P1-44C	PVC SCH 80	4	200	5.7	INLET SUPPLY (120 MIN TURNOVER)
P1-45C	PVC SCH 80	4	167	4.8	INLET SUPPLY (120 MIN TURNOVER)
P1-46C	PVC SCH 80	3	134	6.7	INLET SUPPLY (120 MIN TURNOVER)
P1-47C	PVC SCH 80	2.5	100	7.8	INLET SUPPLY (120 MIN TURNOVER)
P1-48C	PVC SCH 80	2	67	7.5	INLET SUPPLY (120 MIN TURNOVER)
P1-49C	PVC SCH 80	1.5	33	6.3	TYPICAL INLET SUPPLY CONNECTION
-	-	-	-	-	-
P1-60C	PVC SCH 80	4	176	5.0	FILTERED PROPULSION SUPPLY
P1-61C	PVC SCH 80	1	59	27.4	FILTERED PROPULSION SUPPLY...
-	-	-	-	-	-
P1-80C	PVC SCH 80	6	353	4.4	FILTERED PROPULSION SUPPLY
P1-81C	PVC SCH 80	4	176	5.0	FILTERED PROPULSION SUPPLY
P1-82C	PVC SCH 80	1	59	27.4	FILTERED PROPULSION SUPPLY...



1 | PL331 POOL C - LEISURE POOL INLET SUPPLY PIPING PLAN VIEW
3/16" = 1'-0"

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Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23214
Issue	PERMIT & BID SET
Date	2025-01-24

PL331
POOL C - LEISURE POOL PIPING PLAN

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1 PL332 POOL C - LEISURE POOL SUCTION & GRAVITY PIPING PLAN VIEW
3/16" = 1'-0"

POOL C - LEISURE POOL PIPE SCHEDULE

PIPE ID	TYPE	NPS (in)	FLOW (gpm)	VELOCITY (fps)	DESCRIPTION
S2-1C	PVC SCH 80	6	215	2.7	ACTIVITY PUMP (RIVER) SUCTION - MAIN DRAIN
S3-1C	PVC SCH 80	10	725	3.3	ACTIVITY PUMP (ZDE) SUCTION - MAIN DRAIN
S6-1C	PVC SCH 80	14	1,800	4.8	PROPULSION SUCTION - MAIN DRAIN
S7-1C	PVC SCH 80	14	1,800	4.8	PROPULSION SUCTION - MAIN DRAIN
-	-	-	-	-	-
PG-10C	PVC SCH 80	14	1,435	3.8	MAIN DRAIN
-	-	-	-	-	-
G-3C	SEE DETAIL	4	0	#N/A	OBSERVATION WELL
G-10C	PVC SCH 40	10	718	2.9	GUTTER
G-11C	PVC SCH 40	10	615	2.5	GUTTER
G-12C	PVC SCH 40	10	513	2.1	GUTTER
G-13C	PVC SCH 40	8	410	2.7	GUTTER
G-14C	PVC SCH 40	8	308	2.0	GUTTER
G-15C	PVC SCH 40	6	205	2.3	GUTTER
G-16C	PVC SCH 40	4	103	2.6	GUTTER CONNECTION, TYP
G-20C	PVC SCH 40	10	718	2.9	GUTTER
G-21C	PVC SCH 40	10	615	2.5	GUTTER
G-22C	PVC SCH 40	10	513	2.1	GUTTER
G-23C	PVC SCH 40	8	308	2.0	GUTTER
G-24C	PVC SCH 40	6	205	2.3	GUTTER
G-25C	PVC SCH 40	4	103	2.6	GUTTER CONNECTION, TYP

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CHICO AREA RECREATION & PARK DISTRICT

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PL332
POOL C - LEISURE POOL PIPING PLAN

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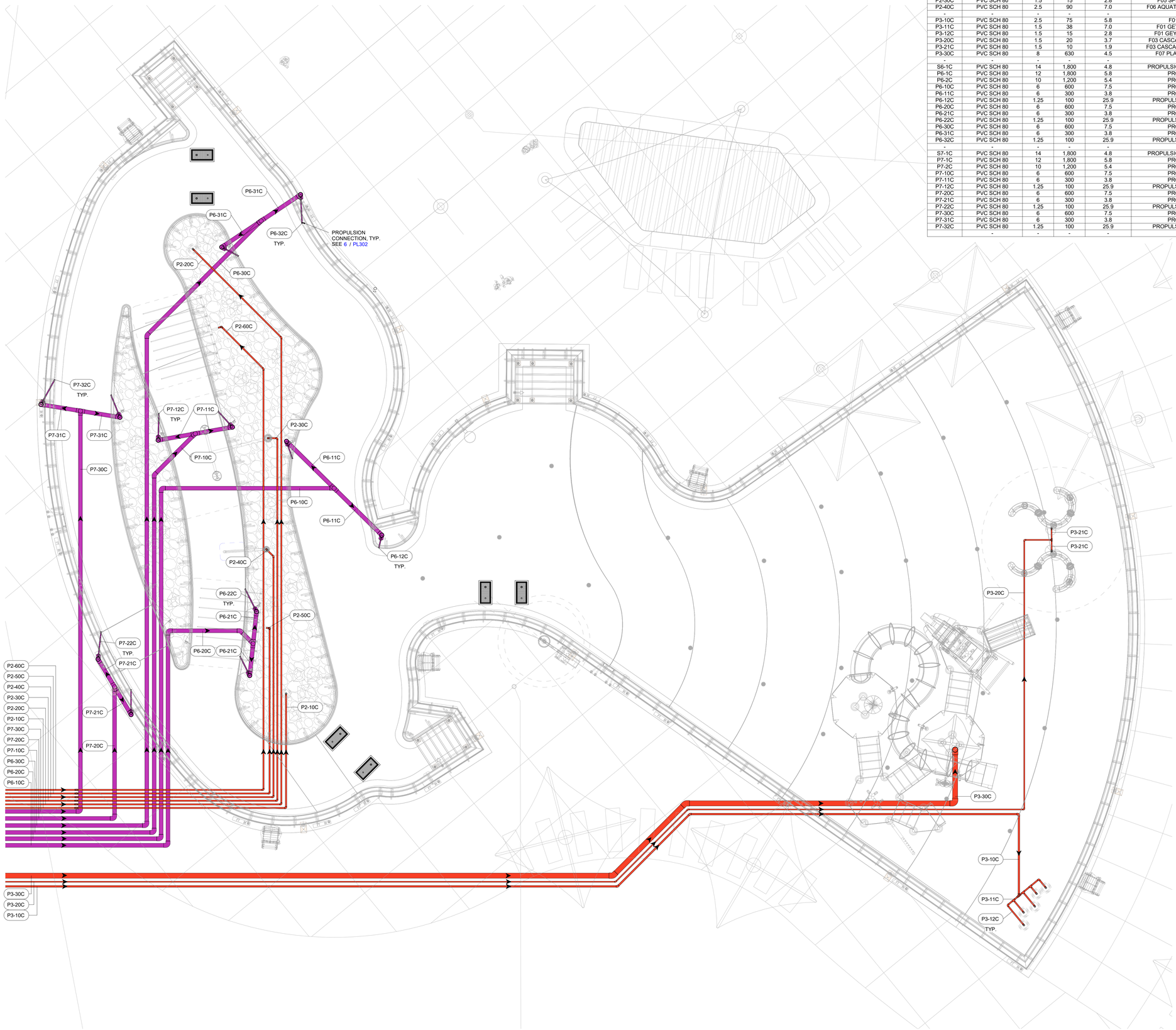
POOL C - LEISURE POOL PIPE SCHEDULE

PIPE ID	TYPE	NPS (in)	FLOW (gpm)	VELOCITY (fps)	DESCRIPTION
P2-10C	PVC SCH 80	1.5	15	2.8	F02 GEYSER SUPPLY
P2-20C	PVC SCH 80	1.5	15	2.8	F02 GEYSER SUPPLY
P2-30C	PVC SCH 80	1.5	15	2.8	F05 SPRAY FEATURE SUPPLY
P2-40C	PVC SCH 80	2.5	90	7.0	F06 AQUATIC PLAY FEATURE SUPPLY
-	-	-	-	-	-
P3-10C	PVC SCH 80	2.5	75	5.8	F01 GEYSER SUPPLY
P3-11C	PVC SCH 80	1.5	38	7.0	F01 GEYSER SUPPLY HEADER
P3-12C	PVC SCH 80	1.5	15	2.8	F01 GEYSER CONNECTION, TYP
P3-20C	PVC SCH 80	1.5	20	3.7	F03 CASCADE RAINFOREST SUPPLY
P3-21C	PVC SCH 80	1.5	10	1.9	F03 CASCADE RAINFOREST SUPPLY...
P3-30C	PVC SCH 80	8	630	4.5	F07 PLAY STRUCTURE SUPPLY
-	-	-	-	-	-
S6-1C	PVC SCH 80	14	1,800	4.8	PROPULSION SUCTION - MAIN DRAIN
P6-1C	PVC SCH 80	12	1,800	5.8	PROPULSION SUPPLY
P6-2C	PVC SCH 80	10	1,200	5.4	PROPULSION SUPPLY
P6-10C	PVC SCH 80	6	600	7.5	PROPULSION SUPPLY
P6-11C	PVC SCH 80	6	300	3.8	PROPULSION SUPPLY
P6-12C	PVC SCH 80	1.25	100	25.9	PROPULSION LATERAL, TYP OF 6
P6-20C	PVC SCH 80	6	600	7.5	PROPULSION SUPPLY
P6-21C	PVC SCH 80	6	300	3.8	PROPULSION SUPPLY
P6-22C	PVC SCH 80	1.25	100	25.9	PROPULSION LATERAL, TYP OF 6
P6-30C	PVC SCH 80	6	600	7.5	PROPULSION SUPPLY
P6-31C	PVC SCH 80	6	300	3.8	PROPULSION SUPPLY
P6-32C	PVC SCH 80	1.25	100	25.9	PROPULSION LATERAL, TYP OF 6
-	-	-	-	-	-
S7-1C	PVC SCH 80	14	1,800	4.8	PROPULSION SUCTION - MAIN DRAIN
P7-1C	PVC SCH 80	12	1,800	5.8	PROPULSION SUPPLY
P7-2C	PVC SCH 80	10	1,200	5.4	PROPULSION SUPPLY
P7-10C	PVC SCH 80	6	600	7.5	PROPULSION SUPPLY
P7-11C	PVC SCH 80	6	300	3.8	PROPULSION SUPPLY
P7-12C	PVC SCH 80	1.25	100	25.9	PROPULSION LATERAL, TYP OF 6
P7-20C	PVC SCH 80	6	600	7.5	PROPULSION SUPPLY
P7-21C	PVC SCH 80	6	300	3.8	PROPULSION SUPPLY
P7-22C	PVC SCH 80	1.25	100	25.9	PROPULSION LATERAL, TYP OF 6
P7-30C	PVC SCH 80	6	600	7.5	PROPULSION SUPPLY
P7-31C	PVC SCH 80	6	300	3.8	PROPULSION SUPPLY
P7-32C	PVC SCH 80	1.25	100	25.9	PROPULSION LATERAL, TYP OF 6
-	-	-	-	-	-



1 POOL C - LEISURE POOL ACTIVITY & PROPULSION PIPING PLAN VIEW
PL333 3/16" = 1'-0"

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Revision Schedule

No.	Date	Description
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Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23214
Issue	PERMIT & BID SET
Date	2025-01-24

PL333
POOL C - LEISURE POOL PIPING PLAN

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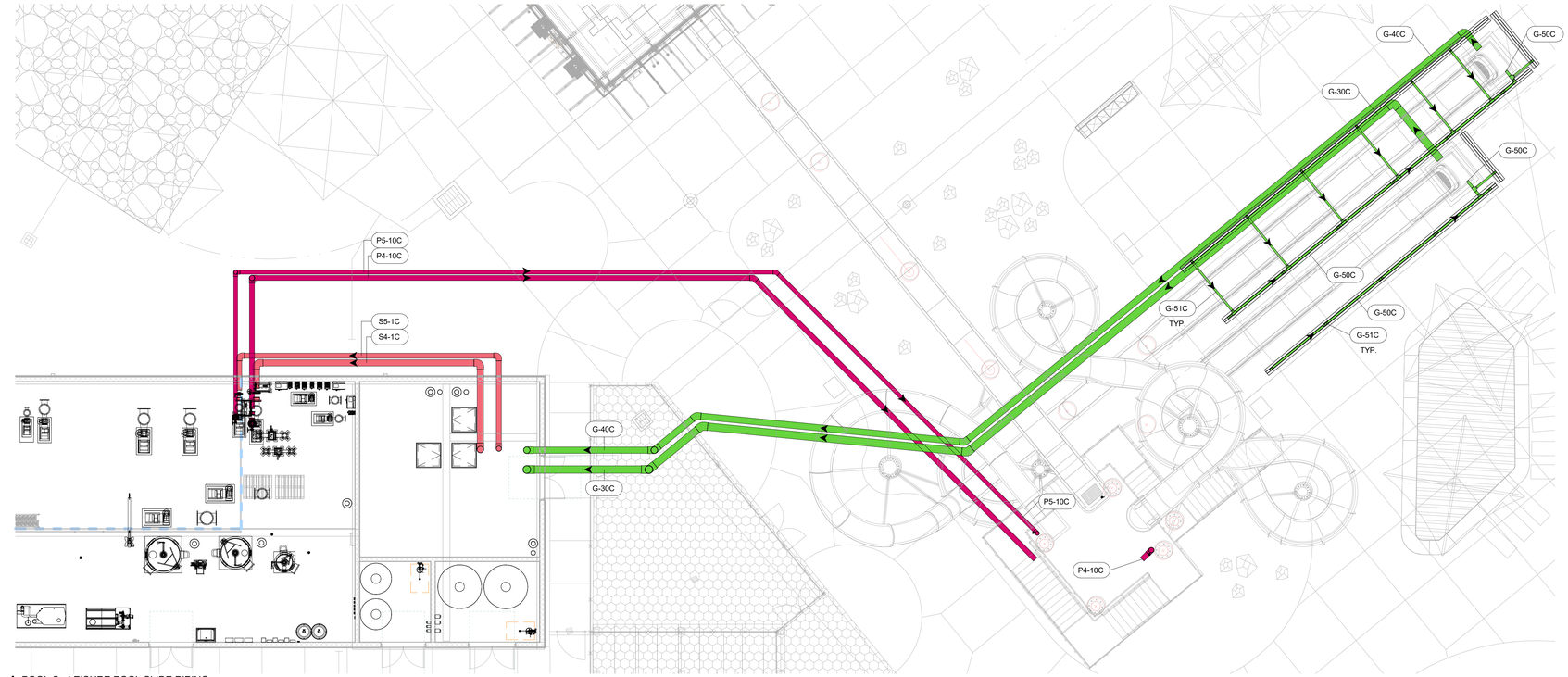
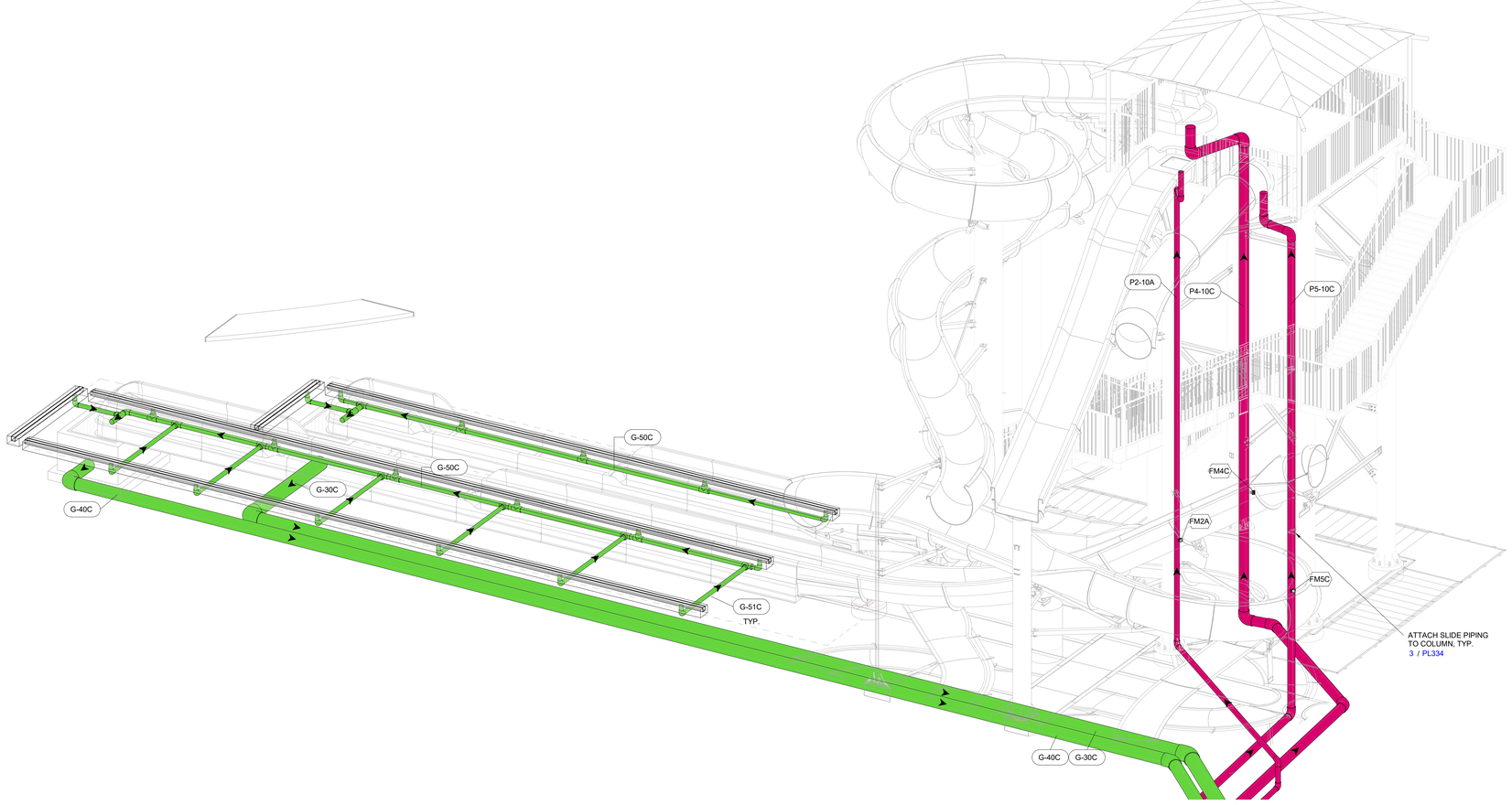


1 | POOL C - LEISURE POOL SLIDE PIPING PLAN VIEW
PL334
1/8" = 1'-0"

POOL C - LEISURE POOL PIPE SCHEDULE

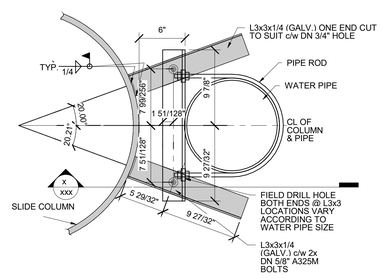
PIPE ID	TYPE	NPS (in)	FLOW (gpm)	VELOCITY (fps)	DESCRIPTION
S4-1C	PVC SCH 80	10	1,000	4.5	OPEN BODY SLIDE SUCTION - SURGE TANK
P4-10C	PVC SCH 80	8	1,000	7.1	OPEN BODY SLIDE SUPPLY
-	-	-	-	-	-
S5-1C	PVC SCH 80	8	500	3.6	ENCLOSED BODY SLIDE - SURGE TANK
P5-10C	PVC SCH 80	6	500	6.3	ENCLOSED BODY SLIDE SUPPLY
-	-	-	-	-	-
G-30C	PVC SCH 40	12	1,000	2.9	SLIDE RUNOUT DRAIN
G-40C	PVC SCH 40	10	500	2.1	SLIDE RUNOUT DRAIN
G-50C	PVC SCH 40	0.5	0	0.0	DECK DRAIN HEADER
G-51C	PVC SCH 40	0.5	0	0.0	DECK DRAIN CONNECTION, TYP OF 19

NOTE: CONTRACTOR SHALL PROVIDE MAIN PIPING SUPPLY TO UNDERSIDE OF SLIDE START TUB WHERE THE PIPING MAY NEED TO TEE/SPLIT TO SERVE TWO SIDES OF A START TUB. REFER TO SLIDE MANUFACTURER DRAWINGS FOR FINAL SLIDE START TUB CONNECTIONS. RIGIDLY SUPPORT SLIDE START TUB PIPING MANIFOLD AT BOTTOM SIDE OF SLIDE TOWER.



2 | SLIDE TOWER 3D PLAN VIEW
PL334

NOTE: INSTALL BRACKET TO TOWER COLUMN SPACED EVERY 7'-0" ON VERTICAL RISE OF PIPE, TYPICAL PER EACH SLIDE SUPPLY PIPE



3 | SLIDE COLUMN PIPE BRACKET PLAN VIEW
PL334
NONE

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PL334
POOL C - SLIDE PIPING PLAN

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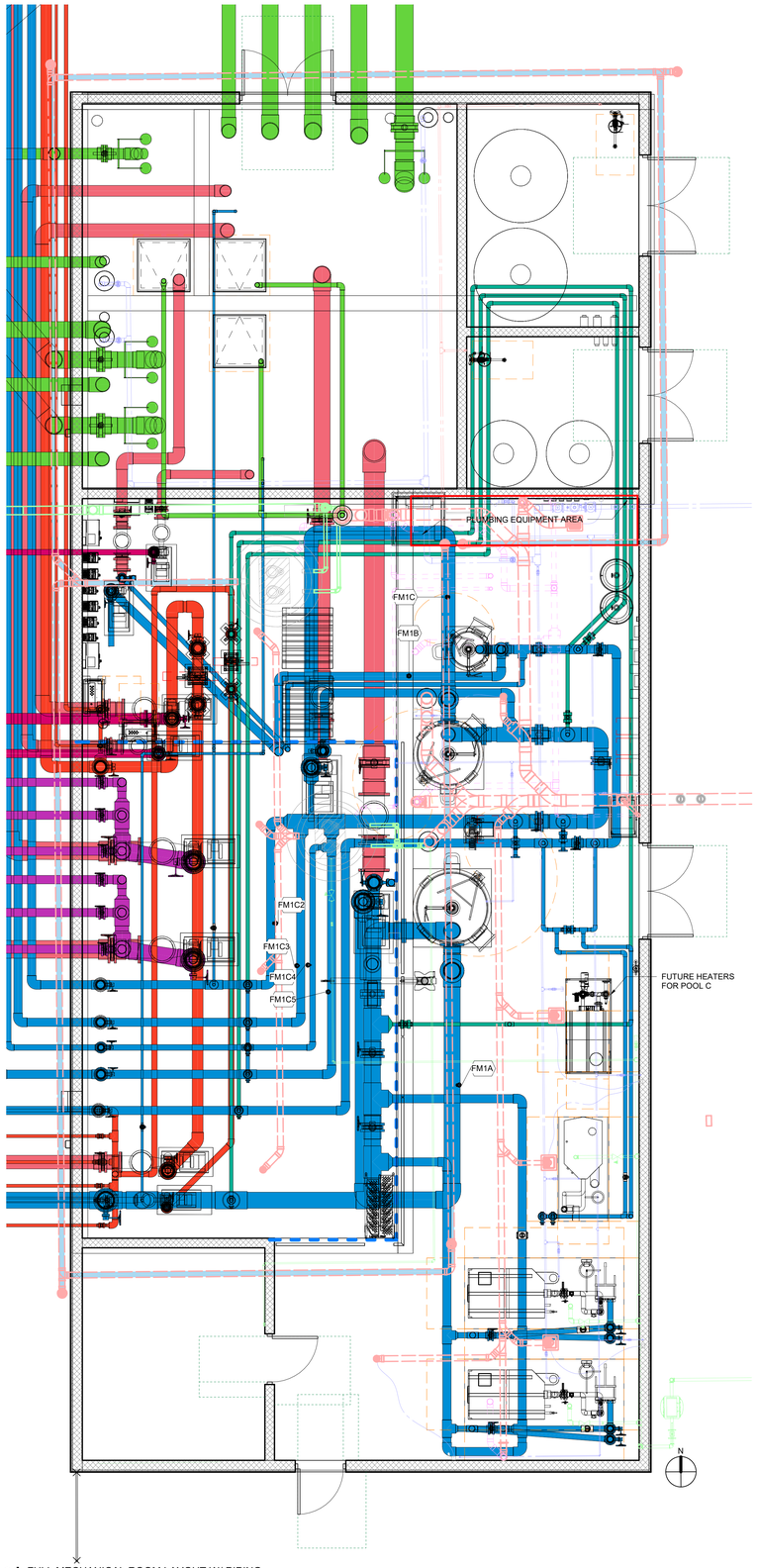
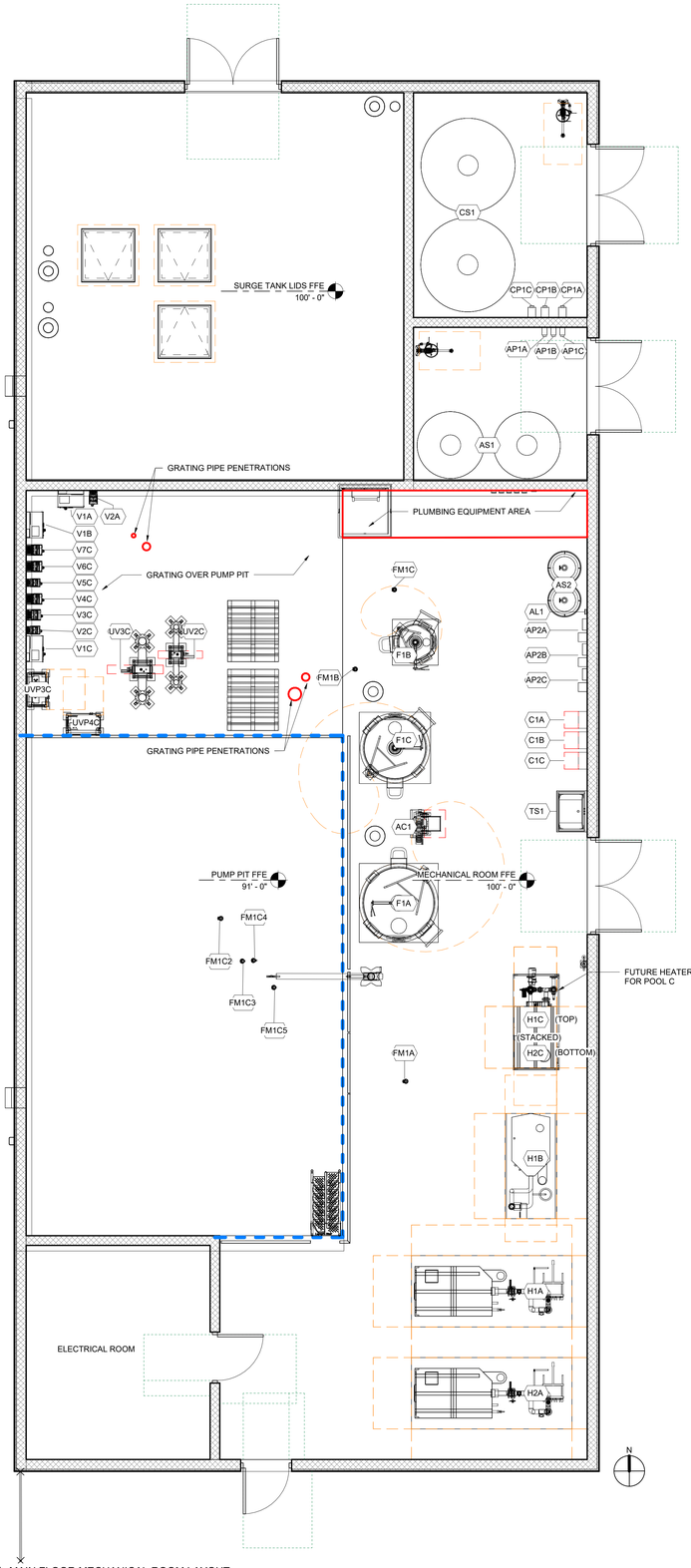
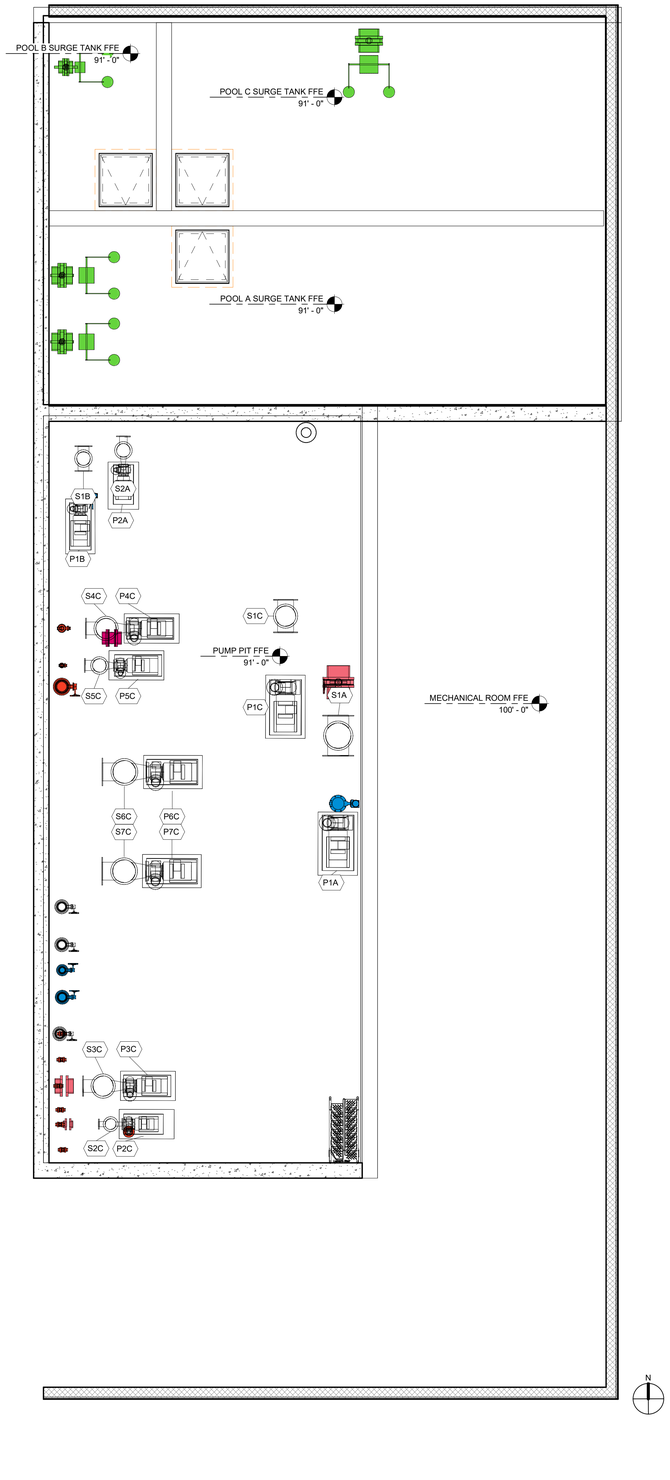


3 | FULL MECHANICAL ROOM LAYOUT W/ PIPING
PLAN VIEW
1/4" = 1'-0"



2 | MAIN FLOOR MECHANICAL ROOM LAYOUT
PLAN VIEW
1/4" = 1'-0"



1 | PUMP PIT MECHANICAL ROOM LAYOUT
PLAN VIEW
1/4" = 1'-0"

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PL400
MECHANICAL EQUIPMENT PLAN

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POOL A-50M COMPETITION POOL DATA

DESCRIPTION	QTY	UNITS	
POOL PERIMETER	778	FEET	
WATER SURFACE AREA	12,323	SQUARE FEET	
POOL WATER TEMPERATURE	80	°F	
POOL VOLUME	748,095	GALLONS	
SURGE TANK OPERATING VOLUME	11,866	GALLONS	
TOTAL VOLUME OF WATER	760,161	GALLONS	
CIRCULATION RATE	2,117	GPM	
TURNOVER/VOLUME/FLOW	359 MIN.	760,161 GAL.	2,117 GPM
FILTRATION RATE	1.30	GPM/FT²	
FILTER DRAIN RATE	300	GPM	
SURGE FACTOR	1.12	GAL/SQFT	
AVAILABLE SURGE CAPACITY IN SURGE TANK	13754	GALLONS	
INTENDED USE	COMPETITION		

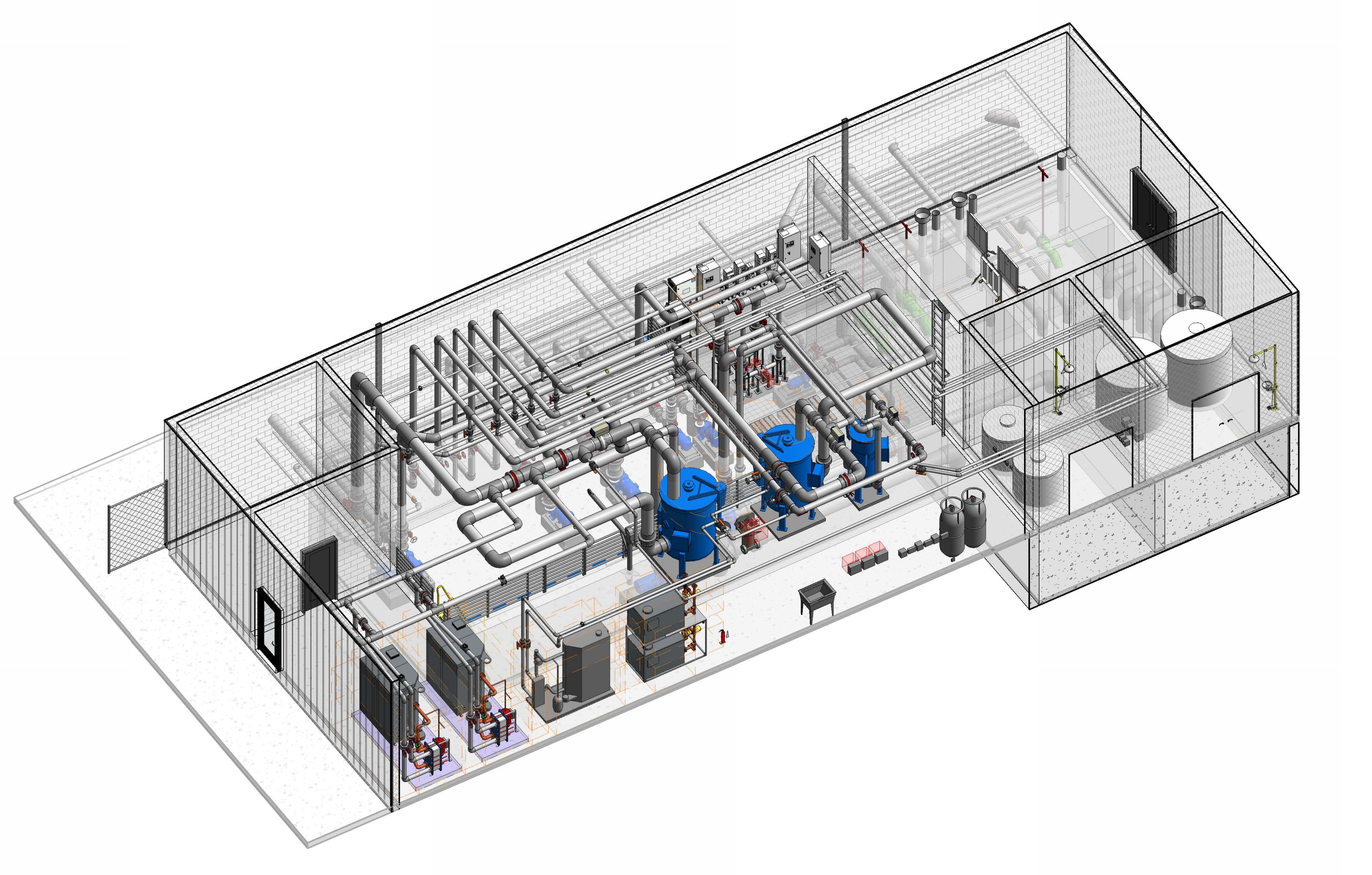
POOL B-PROGRAM POOL DATA

DESCRIPTION	QTY	UNITS	
POOL PERIMETER	778	FEET	
WATER SURFACE AREA	2,722	SQUARE FEET	
POOL WATER TEMPERATURE	85	°F	
POOL VOLUME	76,932	GALLONS	
SURGE TANK OPERATING VOLUME	2,213	GALLONS	
TOTAL VOLUME OF WATER	79,145	GALLONS	
CIRCULATION RATE	440	GPM	
TURNOVER/VOLUME/FLOW	180 MIN.	79,145 GAL.	440 GPM
FILTRATION RATE	1.15	GPM/FT²	
FILTER DRAIN RATE	300	GPM	
SURGE FACTOR	1.11	GAL/SQFT	
AVAILABLE SURGE CAPACITY IN SURGE TANK	3028	GALLONS	
INTENDED USE	WARM UP		

POOL C-LEISURE POOL DATA

DESCRIPTION	QTY	UNITS	
POOL PERIMETER	778	FEET	
WATER SURFACE AREA	7,351	SQUARE FEET	
POOL WATER TEMPERATURE	86	°F	
POOL VOLUME	127,189	GALLONS	
SLIDE STORAGE VOLUME	3,268	GALLONS	
SURGE TANK OPERATING VOLUME	9,417	GALLONS	
TOTAL VOLUME OF WATER	139,874	GALLONS	
CIRCULATION RATE	1,435	GPM	
TURNOVER/VOLUME/FLOW	60 MIN.	32,338 GAL.	539 GPM
TURNOVER/VOLUME/FLOW	120 MIN.	107,536 GAL.	896 GPM
FILTRATION RATE	1.18	GPM/FT²	
FILTER DRAIN RATE	300	GPM	
SURGE FACTOR	1.13	GAL/SQFT	
AVAILABLE SURGE CAPACITY IN SURGE TANK	8278	GALLONS	
INTENDED USE	LEISURE		

NOTE:
MECHANICAL FASTENING DESIGN IS IN ACCORDANCE WITH THE 2022 CALIFORNIA STATE BUILDING CODE.
SEISMIC DESIGN VALUES
Ss = 0.94
S1 = 0.3
SDS = 0.79
SD1 = 0.49
SEISMIC DESIGN CATEGORY = D



1 PL401 MECHANICAL ROOM LAYOUT

CHLORINE FEEDER SCHEDULE

ID TAG	POOL ID	MANUFACTURER	MODEL	MAXIMUM OUTPUT (GAL PER DAY)	NOTES
CP1A	A	BLUE-WHITE	A2A24-SNGG	381	1, 2, 3
CP1B	B	BLUE-WHITE	A2A24-SNEE	132	1, 2, 3
CP1C	C	BLUE-WHITE	A2A24-SNGG	381	1, 2, 3

1. POWER REQUIRED - 120 V, 1 PHASE, 15 AMP.
2. USE SODIUM HYPOCHLORITE FOR DISINFECTANT. PROVIDE WITH WEIGHTED FOOT STRAINER.
3. FURNISH & INSTALL EACH UNIT WITH THE KIT - PSM WALL MOUNT BRACKET, HDPE

pH FEEDER SCHEDULE

ID TAG	MANUFACTURER	MODEL	MAXIMUM OUTPUT (GAL PER DAY)	NOTES
AP1A	BLUE-WHITE	A1N00A-7T	21.6	1, 2, 3
AP1B	BLUE-WHITE	A1N00A-7T	21.6	1, 2, 3
AP1C	BLUE-WHITE	A1N00A-7T	21.6	1, 2, 3
AP2A	NEPTUNE BENSON	20-200 SCFH CO2 pH CONTROL SYSTEM	200	1, 4, 5
AP2B	NEPTUNE BENSON	20-200 SCFH CO2 pH CONTROL SYSTEM	200	1, 4
AP2C	NEPTUNE BENSON	20-200 SCFH CO2 pH CONTROL SYSTEM	200	1, 4

1. POWER REQUIRED - 120 V, 1 PHASE, 15 AMP.
2. USE MURIATIC ACID FOR pH CONTROL. PROVIDE WITH WEIGHTED FOOT STRAINER.
3. FURNISH & INSTALL EACH UNIT WITH THE KIT - PSM WALL MOUNT BRACKET, HDPE.
4. PROVIDE WITH CO2 INLINE HEATER P/N 12707, C02 FEED SYSTEM P/N 12705, DIFFUSER ASSEMBLY P/N 145NBCO2DF. .
5. PROVIDE WITH LOGICO2 Mk90 CO2 STAND-ALONE SAFETY SYSTEM. INCLUDE Mk-90 SENSOR WITH DISPLAY, HORN/STROBE, CABLING, AND SIGNAGE TAGGED AL1 ON PL400. PROVIDE SETTING THAT COMPLY WITH ALL LOCAL SAFETY CODED AND LEGISLATION. LOCATE SYSTEM NEAR CO2 TANK. INSTALL PER MFG REQUIREMENTS.

STORAGE SCHEDULE

ID TAG	POOLS SERVED	MANUFACTURER	MODEL #	QTY	CAPACITY EACH (GALLONS)	CAPACITY EACH (POUNDS)	SIZE: DIAMETER	SIZE: HEIGHT	NOTES
AS1	A, B, C	CHEMTAINER	TC5256DC	2	350	0	4' - 4 1/2"	4' - 0"	1
AS2	A, B, C	CHEMICAL SUPPLIER	N/A	2	0	750			2
CS1	A, B, C	CHEMTAINER	TC7485DC	2	1000	0	6' - 2"	5' - 9"	1

1. DC SERIES DOUBLE WALL BULK STORAGE TANK, 16" MANWAY. (use with Chemtainer. Note: 50 gallon storage has 8" manway)
2. TWO 750 POUND MINIMUM CO2 BULK STORAGE TANK COMPLETE WITH PRESSURE REGULATOR, GAUGES, VALVES, RESTRAINTS, AND TUBING. INSTALL SYSTEM USING STAINLESS STEEL CYLINDER/TANK RESTRAINTS PER CODE. PLUMB WITH 3/16" ID 1000PSI BRAIDED TUBING FROM CYLINDER TO REGULATOR AND 3/8" O.D. POLYTUBING FROM REGULATOR TO FEEDER.

CHEMICAL CONTROLLER SCHEDULE

ID TAG	MANUFACTURER	MODEL #	NOTES
C1A	CHEMTROL	PC2100	1
C1B	CHEMTROL	PC2100	1
C1C	CHEMTROL	PC2100	1

1. SEE CHEMICAL CONTROLLER SPECIFICATION FOR OPTIONS.

HEATER SCHEDULE

ID TAG	POOL ID	MANUFACTURER	MODEL	BTU/HR INPUT	GAS CONNECTION	DOMESTIC WATER CONNECTION	VENT DIAMETER	AIR INTAKE	NOTES
H1A	A	LOCHINVAR	APO3000	3,000,000	1 1/2"	1/2"	8"	8"	2,3
H2A	A	LOCHINVAR	APO3000	3,000,000	1 1/2"	1/2"	8"	8"	2,3
H1B	B	LOCHINVAR	APO1000N	1,000,000	1 1/4"	1/2"	6"	6"	2,3
H2C	C	LOCHINVAR	CPN0992	990,000	2"	2 1/2"	10"	10"	1,4
H1C	C	LOCHINVAR	CPN0992	990,000	2"	2 1/2"	10"	10"	1,4

1. COPPERFIN 2 HEATER - CUPRO NICKEL HEAT EXCHANGER, MANUAL RESET HIGH LIMIT AND MULTI-STACK STAND. FURTHER PROVIDE WITH A.S.M.E. LABEL, RELIEF VALVE, FLOW SWITCH, OPTIONAL PUMP ON/OFF RELAY, AND ALL SAFETY DEVICE PACKAGES PER STATE AND LOCAL CODES. PROVIDE WITH __" FLOWVIS FLOWMETER ON HEATER INFLUENT PIPING AS SHOWN IN DETAIL. PROVIDE WITH _______ VENT KIT MODEL# ____.
2. AQUAS HIGH EFFICIENCY (96%) COMMERCIAL POOL, FACTORY ASSEMBLED, SKID MOUNTED HEATING SYSTEM; MODULATING CONDENSING BOILER WITH TITANIUM PLATE HEAT EXCHANGER; MANUAL RESET HIGH LIMIT. PROVIDE WITH A.S.M.E. LABEL, BOILER PUMP, EXPANSION TANK RELIEF VALVE, FLOW SWITCH, DIRECT VENTING SYSTEM, AND ALL SAFETY DEVICE PACKAGES PER STATE AND LOCAL CODES. FURTHER PROVIDE WITH _" FLOWVIS FLOWMETER ON HEATER INFLUENT PIPING AS SHOWN IN DETAILS.
3. SEE SPECIFICATIONS SECTION 13 11 40.
4. FUTURE INSTALLATION

VFD SCHEDULE

ID TAG	POOL ID	MANUFACTURER	MODEL	HP	VOLTAGE	PHASE	NOTES
V1A	A	ABB	ACH580-BCR-077A-4+B056	60	480	3	1,2
V2A	A	ABB	ACH580-PDR-012A-4+B056	7.5	480	3	1,3
V1B	B	ABB	ACH580-BCR-027A-4+B056	20	480	3	1,2
V1C	C	ABB	ACH580-BCR-065A-4+B056	50	480	3	1,2
V2C	C	ABB	ACH580-PDR-023A-4+B056	15	480	3	1,3
V3C	C	ABB	ACH580-PDR-027A-4+B056	20	480	3	1,3
V4C	C	ABB	ACH580-PDR-052A-4+B056	40	480	3	1,3
V5C	C	ABB	ACH580-PDR-023A-4+B056	15	480	3	1,3
V6C	C	ABB	ACH580-PDR-052A-4+B056	40	480	3	1,3
V7C	C	ABB	ACH580-PDR-052A-4+B056	40	480	3	1,3

1. PROVIDE WITH UL TYPE 12 ENCLOSURE
2. VFD WITH E-CLIPSE BY-PASS.
3. VFD WITH INPUT DISCONNECT AND FUSES ONLY.

PUMP SCHEDULE

ID TAG	POOL ID	MANUFACTURER	MODEL	PUMP TYPE	FLOW (GPM)	TDH (FT)	POWER (HP)	MOTOR SPEED (RPM)	NOTES
P1A	A	AURORA PUMP	6x8x11A - 326JM	FILTRATION	2155	88	60	1800	1
P2A	A	AURORA PUMP	2.5x3x9.5 - 213JM	SLIDE	200	73	7.5	1800	1
P1B	B	AURORA PUMP	3x4x9.5 - 256JM	FILTRATION	439	99	20	1800	1
P1C	C	AURORA PUMP	6x8x11A - 326JM	FILTRATION	1525	90	50	1800	1
P2C	C	AURORA PUMP	2x2.5x9.5 - 215JM	RIVER ACTIVITIES	225	72	7.5	1800	1
P3C	C	AURORA PUMP	4x5x9.5 - 256JM	PLAY STRUCTURE, ZDE ACTIVITIES	725	70	20	1800	1
P4C	C	AURORA PUMP	5x6x9.5 - 284JM	SLIDE	1000	70	25	1800	1
P5C	C	AURORA PUMP	3x4x9.5 - 254JM	SLIDE	500	73	15	1800	1
P6C	C	AURORA PUMP	6x8x9.5 - 324JM	PROPULSION	1800	66	40	1800	1
P7C	C	AURORA PUMP	6x8x9.5 - 324JM	PROPULSION	1800	66	40	1800	1

1. AURORA PUMPS - TEFC MOTOR, END SUCTION, CLOSED COUPLED, 316 STAINLESS STEEL IMPELLOR AND FITTED (SP), EPOXY COATED VOLUTE. POWER REQUIRED - 230/460 V, 3 PHASE, 60 HERTZ.

STRAINER SCHEDULE

ID TAG	MANUFACTURER	INFLUENT	EFFLUENT	NOTES
S1A	NEPTUNE BENSON	16"	16"	1,2
S2A	NEPTUNE BENSON	6"	3"	1
S1B	NEPTUNE BENSON	8"	8"	1,2
S1C	NEPTUNE BENSON	12"	12"	1,2
S2C	NEPTUNE BENSON	4"	3"	1
S3C	NEPTUNE BENSON	10"	6"	1
S4C	NEPTUNE BENSON	10"	6"	1
S5C	NEPTUNE BENSON	8"	4"	1
S6C	NEPTUNE BENSON	14"	10"	1
S7C	NEPTUNE BENSON	14"	10"	1

1. STAINLESS STEEL BODY, TRANSPARENT ACRYLIC LID, STAINLESS STEEL BASKET, PROVIDE WITH EXTRA STAINLESS STEEL BASKET.
2. PROVIDE WITH ECCENTRIC REDUCING PRECOAT TEE.

FILTER SCHEDULE

ID TAG	POOL ID	MANUFACTURER	MODEL #	FLOW (GPM)	FILTRATION RATE (GPM/FT2)	FILTER SIZE: FILTER AREA (FT2)	FILTER SIZE: OPERATING WEIGHT (LB)	FILTER SIZE: DIAMETER	FILTER SIZE: HEIGHT	LBS MEDIA	NOTES
F1A	A	NEPTUNE BENSON	SP-55-48-2076	2155	1.33	1625	10847	61 1/2"	110 1/2"	128	1,2
F1B	B	NEPTUNE BENSON	SP-27-48-487	439	1.15	381	2970	33 1/2"	97"	30	1,2
F1C	C	NEPTUNE BENSON	SP-49-48-1548	1525	1.26	1211	8437	54"	109 1/2"	96	1,2

1. DEFENDER FILTERS ARE REGENERATIVE MEDIA. PROVIDE WITH PERLITE MEDIA.
2. SEE SPECIFICATIONS SECTION 13 11 30 REGENERATIVE MEDIA FILTERS.

AIR COMPRESSOR SCHEDULE

ID TAG	MANUFACTURER	MODEL	POOLS SERVED	MAXIMUM PRESSURE	TANK SIZE (GAL)	POWER REQUIRED	NOTES
AC1	INGERSOLL RAND	P1.5IU-A9	A,B,C	5.2 @ 135 psig	20	120v	1

1. DEFENDER COMPRESSOR AND WATER SEPARATOR, 2HP, CAST IRON TWIN CYLINDER COMPRESSOR PUMP. PROVIDE WITH WATER SEPARATOR MODEL AMG350, 1/2" PORT SIZE.

SCHEDULE - ULTRA VIOLET DISINFECTION

ID TAG	POOL ID	MANUFACTURER	MODEL #	PIPE SIZE (IN)	PANEL ID TAG	TOTAL POWER (KW)	POWER REQUIRED	BREAKER SIZE (AMPS)	NOTES
UV2C	C	EVOQUA	WF-115-4	4	UVP2C	1.5	208V, 1PH (60 HZ)	20	1,2
UV3C	C	EVOQUA	WF-215-6	6	UVP3C	3	208V, 1PH (60 HZ)	30	1,2

1. PROVIDE WITH SAME PIPE SIZE ETS "EZ" STRAINER VALVE.
2. USE CONCENTRIC REDUCERS TO MATCH THE "EZ" STRAINER TO THE PIPE SIZE OF THE FILTRATION MAIN AND UV UNIT.

AUTOFILL SCHEDULE

ID TAG	MANUFACTURER	MODEL	MANUAL FILL RATE (GPM)	MANUAL FILL TIME (HR)	MANUAL FILL PIPE SIZE (IN)	AUTOFILL MAKEUP FILL RATE	AUTOFILL MAKEUP FILL PIPE SIZE (IN)	BY-PASS VALVE	NOTES
AF1A	CLA-VAL CO.	100-O1A-KC	107	120	2.5	44	3	2"	1, 2
AF1B	CLA-VAL CO.	100-O1A-KC	38	36	1.5	18	2	2"	1, 2
AF1C	CLA-VAL CO.	100-O1A-KC	50	48	2	44	3	2"	1, 2

1. CLA-VAL AUTOFILL MODEL #124-01-AKC INCLUDES DIAPHRAM FLOAT VALVE ASSEMBLY (MODEL #100-01AKC) WITH PILOT CONTROL FLOAT ASSEMBLY (MODEL #CF1-C1), INTEGRAL STRAINER AND PVC FLOAT ROD. PROVIDE WITH FACTORY APPLIED FUSION BONDED EPOXY COATING TO VALVE BODY & COVER. VALVE ASSEMBLY & FLOAT CONTROL SUPPLIED BY THE POOL CONTRACTOR. VALVE ASSEMBLY AND COPPER TUBING INSTALLED BY THE LICENSED PLUMBING CONTRACTOR. SEE DETAIL AND TANK OPERATING WATER DEPTHS TO DETERIMNE PVC FLOAT ROD LENGTH.
2. FILL FLOW RATES AND FILL TIMES SCHEDULED ABOVE ARE ESTIMATES AND MAY VARY DEPENDING ON WATER PRESSURE BUILDING PLUMBING DESIGN. INSTALL AUTOFILL PER MANUFACTURER'S INSTRUCTIONS, INSTALLATION DETAILS, PLUMBING SCHEMATICS, AND POOL ELECTRICAL WIRING DIAGRAMS.

DIGITAL FLOW METER SCHEDULE

ID TAG	POOL ID	MANUFACTURER	MODEL	SENSOR LOCATION	SYSTEM DESCRIPTION	DISPLAY ID TAG	PUMP TAG	PIPE SIZE (IN)	FLOW (GPM)	POWER SUPPLY ID TAG	POWER SUPPLY MODEL	NOTES
FM1A	A	SIGNET	3-2551-P2-12	MECH ROOM	FILTRATION	V1A	P1A	12	2117	V1A	N/A	2, 4, 5
FM2A	A	SIGNET	3-2251-P0-11	SLIDE TOWER	SLIDE	FD2A1	P2A	4	200	FD1	7310-4024	1, 3, 5
FM1B	B	SIGNET	3-2551-P1-12	MECH ROOM	FILTRATION	V1B	P1B	6	440	V1B	N/A	2, 3, 5
FM1C	C	SIGNET	3-2551-P2-12	MECH ROOM	FILTRATION	V1C	P1C	10	1435	V1C	N/A	2, 4, 5
FM1C2	C	SIGNET	3-2551-P1-11	MECH ROOM	FILTRATION	FD1C3	P1C	6	539	FD1	7310-4024	1, 3, 5
FM1C3	C	SIGNET	3-2551-P1-11	MECH ROOM	FILTRATION	FD1C2	P1C	6	367	FD1	7310-4024	1, 3, 5
FM1C4	C	SIGNET	3-2251-P0-11	MECH ROOM	FILTRATION	FD1C2	P1C	4	176	FD1	7310-4024	1, 3, 5
FM1C5	C	SIGNET	3-2551-P1-11	MECH ROOM	FILTRATION	FD1C2	P1C	6	353	FD1	7310-4024	1, 3, 5
FM4C	C	SIGNET	3-2551-P1-11	SLIDE TOWER	SLIDE	FD4C1	P4C	8	1000	FD1	7310-4024	1, 3, 5
FM5C	C	SIGNET	3-2551-P1-11	SLIDE TOWER	SLIDE	FD5C1	P5C	6	500	FD1	7310-4024	1, 3, 5

1. PROVIDE WITH FIELD MOUNT FLOW TRANSMITTER MODEL #3-9900-1 AND UNIVERSAL MOUNTING KIT MODEL #3-8050, FLOW AND DESCRIPTION TO BE DISPLAYED ON TRANSMITTER.
2. FLOW TO BE DISPLAYED ON VFD.
3. PROVIDE WITH PVC-U CLAMP-ON SADDLE. SIGNET MODEL NUMBER PV8S020 (2") PV8S025 (2.5") PV8S030 (3") PV8S040 (4") PV8S060 (6").
4. PROVIDE WITH IRON STRAP-ON SADDLE. SIGNET MODEL NUMBER IR8S080 (8") IR8S100 (10") IR8S120 (12") IR8S140 (14") IR8S160 (16") IR8S180 (18") IR8S200 (20") IR8S240(24")
5. PROVIDE WITH NEMA 4X ENCLOSURE.

ANALOG FLOW METER SCHEDULE

FM SENSOR ID TAG	POOL ID	MANUFACTURER	FM SENSOR LOCATION	FLOWMETER MODEL	SYSTEM DESCRIPTION	PUMP TAG	PIPE SIZE (IN)	FLOW (GPM)	NOTES
FM3A	A	H2FLOW CONTROLS	MECH ROOM	FV-6	FILTRATION	N/A	6"	500	1, 2, 3
FM4A	A	H2FLOW CONTROLS	MECH ROOM	FV-4	FILTRATION	N/A	4"	250	1, 2, 3
FM5A	A	H2FLOW CONTROLS	MECH ROOM	FV-4	FILTRATION	N/A	4"	250	1, 2, 3
FM6A	A	H2FLOW CONTROLS	MECH ROOM	FV-1.5	FILTRATION	P1A	1 1/2"	25	1, 2, 3
FM2B	B	H2FLOW CONTROLS	MECH ROOM	FV-2.5	FILTRATION	N/A	2 1/2"	140	1, 2, 3
FM1C6	C	H2FLOW CONTROLS	MECH ROOM	FV-1.5	FILTRATION	P1B	1 1/2"	30	1, 2, 3

1. REFER TO PIPING DRAWINGS TO VERIFY PIPE SIZE FOR FLOWMETER SENSOR.
2. THE BASIS OF DESIGN IS A FLOW VIS FLOWMETER/CHECKVALVE.
3. FLOWVIS FLOWMETERS SPECIFIED FOR HEATER PIPING REQUIRE NSF 50 CERTIFIED

GRAEF
Project Number: 2024-2000.26
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INTERIM REVIEW
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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23214
Issue	PERMIT & BID SET
Date	2025-01-24

PL401
MECHANICAL EQUIPMENT SCHEDULES

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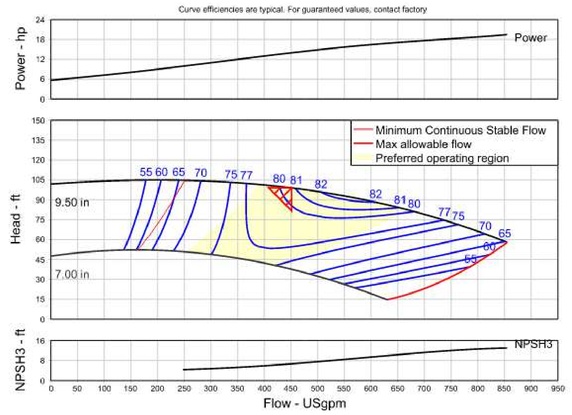
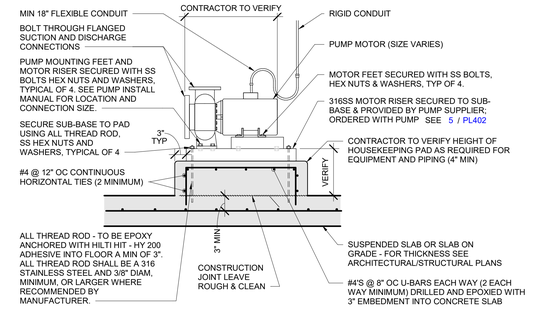
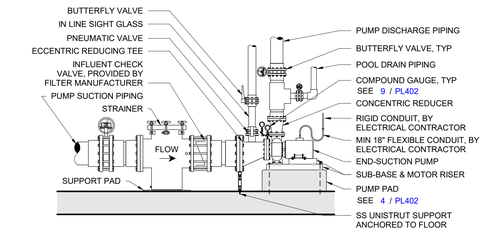


7 | P1B PUMP CURVE
PL402 | DETAIL VIEW
NOT TO SCALE



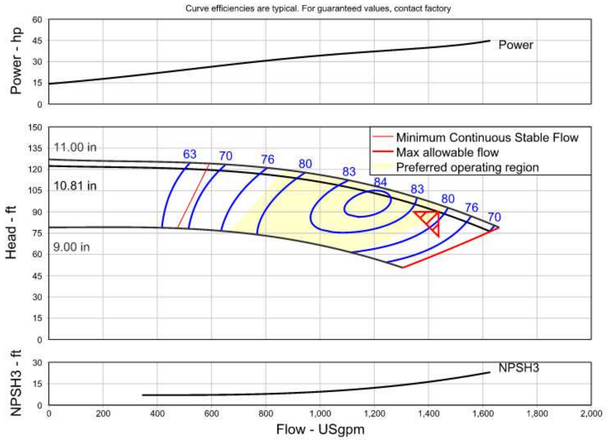
NOTES:
1. PAD SIZE SHALL BE MIN INDICATED OR AS SHOWN ON THE PLANS OR AS INDICATED BY THE MANUFACTURER.
2. THE SIZE, NUMBER, TYPE, LOCATION, AND THREAD PROJECTION OF THE ALL THREAD ROD SHALL BE DETERMINED BY THE EQUIPMENT MANUFACTURER / INSTALLING CONTRACTOR, ALL THREAD ROD SHALL BE HELD IN POSITION WITH A TEMPLATE WHILE PAD IS BEING POURED.
3. EQUIPMENT BASES SHALL BE INSTALLED LEVEL UNLESS SPECIFIED OTHERWISE. EQUIPMENT BASES SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR. SIZES AND LOCATIONS TO BE VERIFIED BY CONTRACTOR.
4. PROVIDE SUPPORT FOR PUMP SUCTION AND DISCHARGE PIPING WHILE ALLOWING FOR PUMP REMOVAL.
5. FINAL INSTALLATION SHALL ALLOW REMOVAL OF MOTOR AND PUMP IMPELLER WITHOUT REMOVAL OF PIPING OR ELECTRICAL CONNECTIONS.

4 | PUMP PAD
PL402 | DETAIL VIEW
NOT TO SCALE

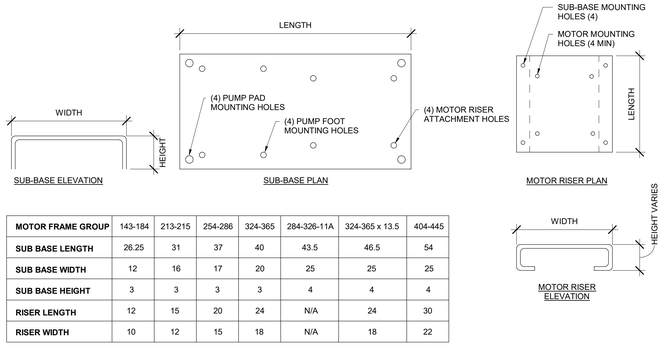


NOTES:
1. REFER TO EQUIPMENT SCHEDULES FOR STRAINER TYPE AND SIZE.
2. SUPPLY AND INSTALL ECCENTRIC REDUCER ON SUCTION SIDE AS NECESSARY.
3. INSTALL STRAINER OR REDUCER WITH 1/4" NPT TAPS PROVIDED ON THE PUMP SUCTION AND DISCHARGE FLANGES.
4. INSTALL CHECK VALVE PER MANUFACTURER'S RECOMMENDATIONS.
5. LOCATE PRECOAT VALVE AND SPACE FLANGES AS REQUIRED TO AVOID CONFLICTS WITH THE DISCHARGE PLUMBING FLANGES AND VALVES.

1 | PUMP INSTALLATION - RM FILTER
PL402 | DETAIL VIEW
NOT TO SCALE



8 | P1C PUMP CURVE
PL402 | DETAIL VIEW
NOT TO SCALE

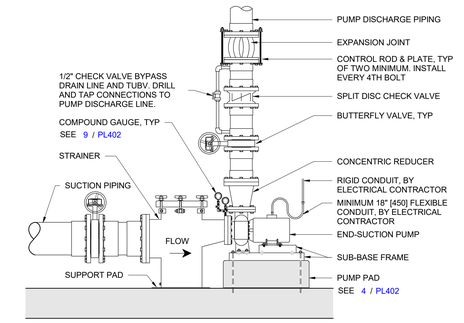


MOTOR FRAME GROUP	143-184	213-215	254-286	324-365	284-326-11A	324-365 x 13.5	404-445
SUB BASE LENGTH	26.25	31	37	40	43.5	46.5	54
SUB BASE WIDTH	12	16	17	20	25	25	25
SUB BASE HEIGHT	3	3	3	3	4	4	4
RISER LENGTH	12	15	20	24	N/A	24	30
RISER WIDTH	10	12	15	18	N/A	18	22

NOTES:

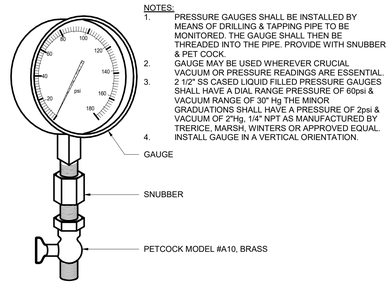
1. SUB-BASE AND MOTOR RISER HOLE LOCATIONS SHALL BE DETERMINED BY THE PUMP SUPPLIER BASED ON PUMP FRAME AND MOTOR DIMENSIONS. SEE PUMP SPECIFICATION SECTION 13 11 25 FOR ADDITIONAL INFORMATION.
2. MOTOR RISER HEIGHTS VARY. CONTRACTOR SHALL INCLUDE A DIMENSIONED SUB-BASE & MOTOR RISER DRAWING FOR EACH PUMP IN THE PUMP AND MOTOR SUBMITTAL FOR REVIEW.

5 | PUMP SUB-BASE & MOTOR RISER – AURORA 3801
PL402 | DETAIL VIEW
NOT TO SCALE



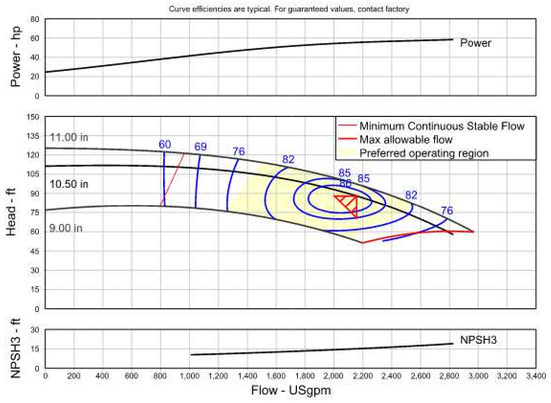
NOTES:
1. REFER TO EQUIPMENT SCHEDULES FOR A STRAINER TYPE AND SIZE.
2. SUPPLY AND INSTALL ECCENTRIC REDUCER ON SUCTION SIDE AS NECESSARY.
3. INSTALL COMPOUND GAUGES USING 1/4" NPT TAPS SUPPLIED ON THE PUMP SUCTION AND DISCHARGE.
4. INSTALL CHECK VALVE PER MANUFACTURER'S RECOMMENDATIONS.

2 | ACTIVITY PUMP INSTALLATION
PL402 | DETAIL VIEW
NOT TO SCALE



NOTES:
1. PRESSURE GAUGES SHALL BE INSTALLED BY MEANS OF DRILLING & TAPPING PIPE TO BE MONITORED. THE GAUGE SHALL THEN BE THREADED INTO THE PIPE. PROVIDE WITH SNUBBER & PET COCK.
2. GAUGE MAY BE USED WHEREVER CRUCIAL VACUUM OR PRESSURE READINGS ARE ESSENTIAL.
3. 2 1/2" SS CASED LIQUID FILLED PRESSURE GAUGES SHALL HAVE A DIAL RANGE PRESSURE OF 60psi & VACUUM RANGE OF 30" Hg THE MINOR GRADUATIONS SHALL HAVE A PRESSURE OF 2psi & VACUUM OF 2"Hg, 1/4" NPT AS MANUFACTURED BY TRERICE, MARSH, WINTERS OR APPROVED EQUAL.
4. INSTALL GAUGE IN A VERTICAL ORIENTATION.

9 | COMPOUND GAUGE
PL402 | DETAIL VIEW
NOT TO SCALE



6 | P1A PUMP CURVE
PL402 | DETAIL VIEW
NOT TO SCALE

NOTES:
1. REFER TO EQUIPMENT SCHEDULES FOR A STRAINER TYPE AND SIZE.
2. SUPPLY AND INSTALL ECCENTRIC REDUCER ON SUCTION SIDE AS NECESSARY.
3. INSTALL COMPOUND GAUGES USING 1/4" NPT TAPS SUPPLIED ON THE PUMP SUCTION AND DISCHARGE.
4. INSTALL CHECK VALVE PER MANUFACTURER'S RECOMMENDATIONS.

3 | PUMP INSTALLATION - SLIDE
PL402 | DETAIL VIEW
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GRAEF
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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23214
Issue	PERMIT & BID SET
Date	2025-01-24

PL402
MECHANICAL DETAILS

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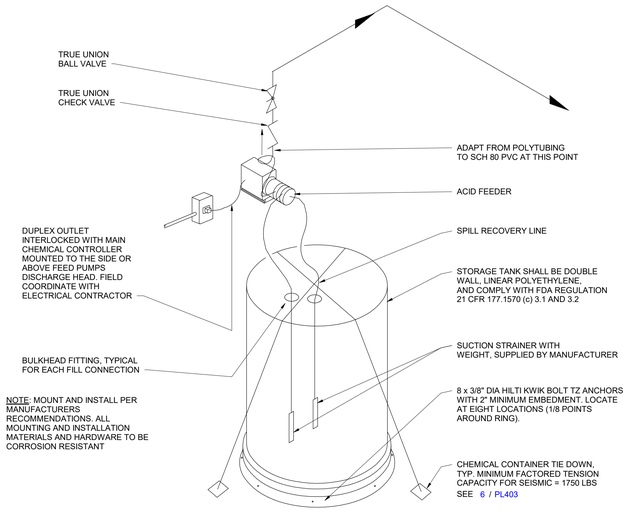
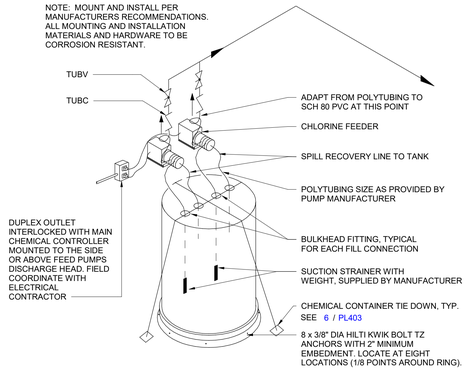
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ESTIMATED ORIGINAL DRAWINGS

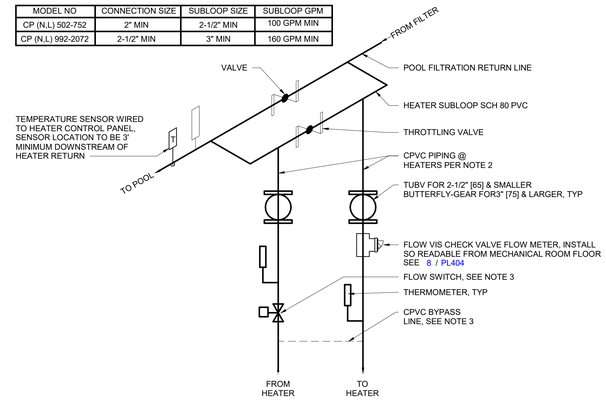


8 | PL403 ACID ISOMETRIC DETAIL VIEW
NOT TO SCALE



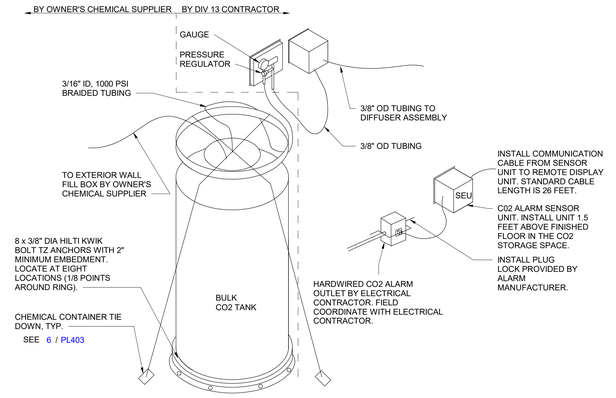
4 | PL403 POOL A CHLORINE ISOMETRIC DETAIL VIEW
NOT TO SCALE

MODEL NO	CONNECTION SIZE	SUBLOOP SIZE	SUBLOOP GPM
CP (N.L) 502-752	2" MIN	2-1/2" MIN	100 GPM MIN
CP (N.L) 992-2072	2-1/2" MIN	3" MIN	160 GPM MIN

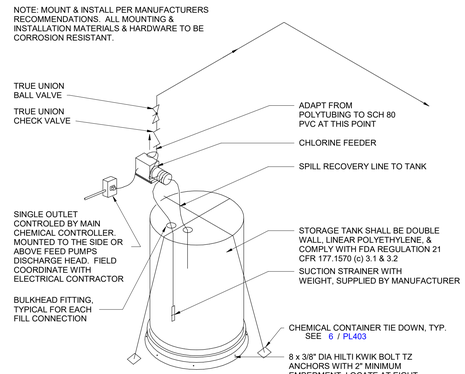


NOTES:
1. CONTRACTOR SHALL ADD BYPASS PIPING & VALVES AS REQUIRED BY THE HEATER MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS.
2. PIPING FROM HEATER CONNECTIONS SHALL BE SCHEDULE 80 CPVC FOR A MINIMUM OF 10 LINEAR FEET [3000].
3. INSTALL FLOW SWITCH ON EFFLUENT SIDE OF HEATER AS CLOSE TO HEATER CONNECTION AS POSSIBLE AND IN CONFORMANCE WITH MANUFACTURER'S INSTALLATION REQUIREMENTS.
4. CONTRACTOR SHALL PROVIDE AND CONFORM TO ANY ADDITIONAL INSTALLATION REQUIREMENTS PER MANUFACTURER OR CODE REQUIREMENT.
5. TEE CONNECTIONS ON THE POOL FILTRATION RETURN LINE TO THE HEATER INFLUENT AND EFFLUENT CONNECTIONS SHALL BE POSITIONED IN THE DOWNWARD POSITION.

1 | PL403 HEATER LOOP DETAIL VIEW
NOT TO SCALE

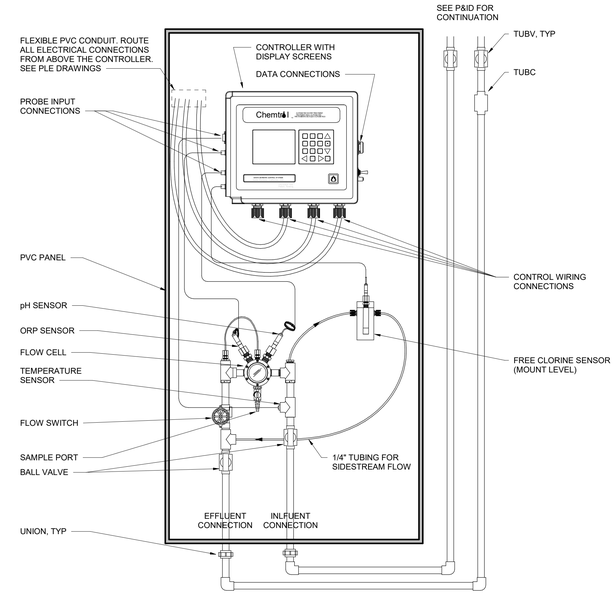


9 | PL403 CO2 ISOMETRIC DETAIL VIEW
NOT TO SCALE



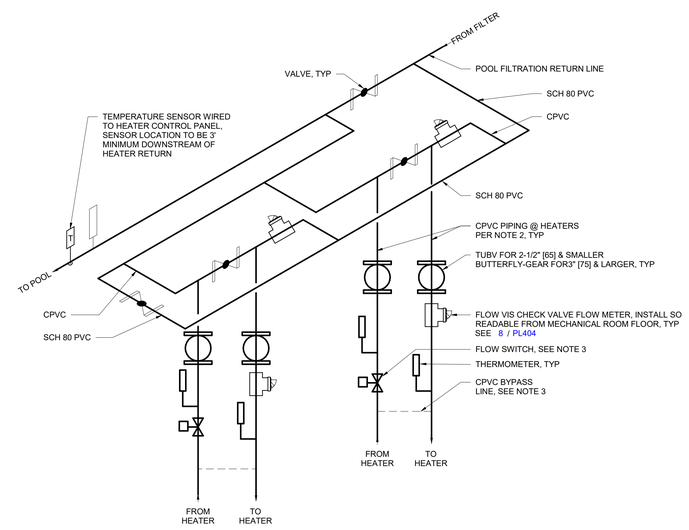
5 | PL403 POOL B AND C CHLORINE ISOMETRIC DETAIL VIEW
NOT TO SCALE

6 | PL403 CHEMICAL CONTAINER TIE DOWN DETAIL VIEW
NOT TO SCALE



NOTE: ALL MATERIALS IN THE VICINITY OF THE CHEMICAL CONTROLLERS SHALL BE NON-CORROSIVE. THIS INCLUDES CLAMPS, FASTENERS, AND USE OF FIBERGLASS STRUT CHANNELS TO SUPPORT THE PIPING AND CONDUIT.

2 | PL403 CHEMICAL CONTROLLER DETAIL VIEW
NOT TO SCALE



NOTES:
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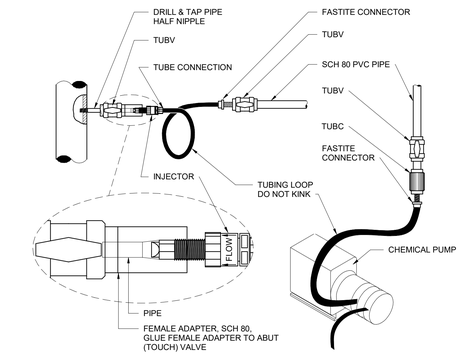
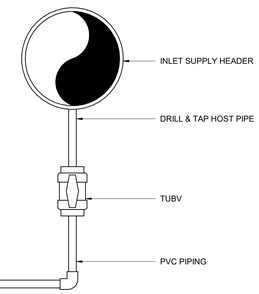
4. CONTRACTOR SHALL PROVIDE AND CONFORM TO ANY ADDITIONAL INSTALLATION REQUIREMENTS PER MANUFACTURER OR CODE REQUIREMENT.
5. TEE CONNECTIONS ON THE POOL FILTRATION RETURN LINE TO THE HEATER INFLUENT AND EFFLUENT CONNECTIONS SHALL BE POSITIONED IN THE DOWNWARD POSITION.

10 | PL403 DUAL HEATER LOOP DETAIL VIEW
NOT TO SCALE



NOTE: FOR PIPING USE FASTITE CONNECTOR OR SIMILAR COMPRESSION FITTING.

7 | PL403 CHEMICAL INJECTION DETAIL VIEW
NOT TO SCALE



3 | PL403 CHEMICAL SAMPLING DETAIL VIEW
NOT TO SCALE

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Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23214
Issue	PERMIT & BID SET
Date	2025-01-24

PL403
MECHANICAL DETAILS

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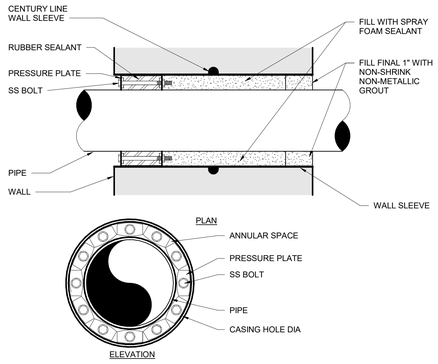
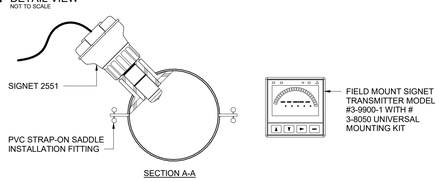


NOTES:
1. SLEEVE SUPPLIED BY POOL CONTRACTOR, INSTALLED BY BUILDING CONTRACTOR.
2. LINK SEAL SUPPLIED AND INSTALLED BY POOL CONTRACTOR.
3. LOCATE LINK SEAL ON THE MOST ACCESSIBLE SIDE OF THE WALL.

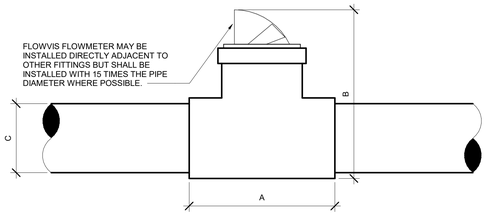
6 | WALL SLEEVE / LINK SEAL DETAIL VIEW
PL404 NOT TO SCALE



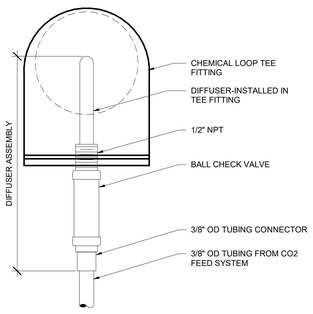
NOTES:
1. INSTALL PIPE SUCH THAT AIR CANNOT GET TRAPPED IN AREA OF SENSOR. DO NOT INSTALL IN PIPES WITH FLOW MOVING DOWNWARD OR IN HORIZONTAL SECTIONS OF PIPE THAT ARE HIGHER THAN ADJACENT HORIZONTAL PIPE.
2. FOR HORIZONTAL PIPE INSTALLATIONS, INSTALL FLOWMETER FACING UPWARD AT A 45º ANGLE TO MINIMIZE ADVERSE EFFECTS OF AIR POCKETS AND SEDIMENT.
3. FIELD MOUNT TRANSMITTER APPROXIMATELY 4'-6" (1350) ABOVE FINISHED FLOOR OR GRADE UTILIZING THE #3-8050 UNIVERSAL MOUNTING KIT.

7 | FLOW METER DETAIL VIEW
PL404 NOT TO SCALE

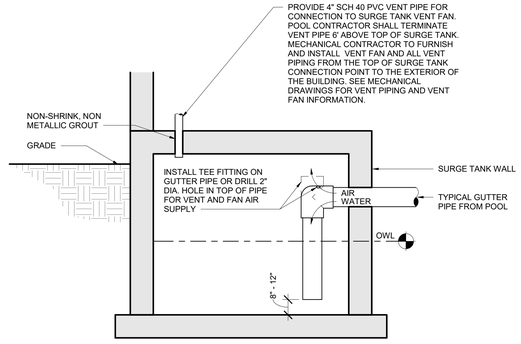
MODEL	A	B	C
FV-15	6.5" (165.1)	5.875" (149.23)	SCHEDULE 40 - 1.5"
FV-2	6.5" (165.1)	5.875" (149.23)	SCHEDULE 40 - 2"
FV-25	6.5" (165.1)	5.875" (149.23)	SCHEDULE 40 - 2.5"
FV-3-40	8.0" (203.2)	9.5" (241.3)	SCHEDULE 40 - 3"
FV-3	8.0" (203.2)	9.5" (241.3)	SCHEDULE 80 - 3"
FV-4	9.5" (241.3)	9.75" (247.65)	SCHEDULE 80 - 4"
FV-6	6" (241.3)	12.53" (318.26)	SCHEDULE 80 - 6"
FV-8	8.59" (218.17)	14.37" (365)	SCHEDULE 80 - 8"



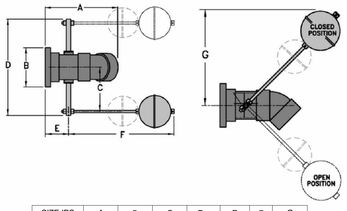
8 | FLOW METER DETAIL VIEW
PL404 NOT TO SCALE



9 | CO2 INJECTION DETAIL VIEW
PL404 NOT TO SCALE



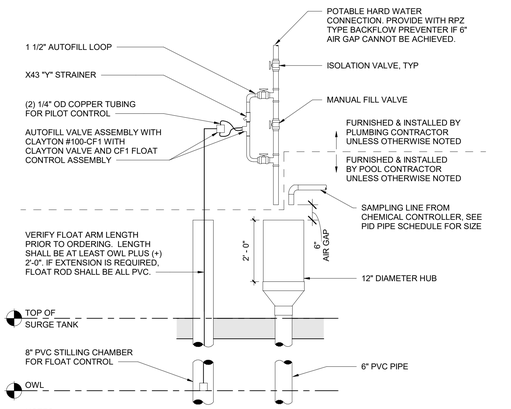
4 | SURGE TANK VENT FAN DETAIL VIEW
PL404 NOT TO SCALE



SIZE IPS	A	B	C	D	E	F	G
4"	13"	9"	8 1/2"	18 1/2"	4"	29"	21"
6"	19 5/8"	11"	9 1/2"	20 1/2"	6"	29"	21"
8"	26 1/4"	13 1/2"	10 3/4"	23"	8"	29"	21"
10"	32 1/2"	16"	12"	25 1/2"	10"	35"	25"
12"	39"	19"	13 1/2"	28 1/2"	12"	35"	25"
14"	51"	21"	15"	31 1/2"	18"	37"	33 1/4"
16"	54"	23 1/2"	16 1/4"	34"	18"	37"	33 1/4"

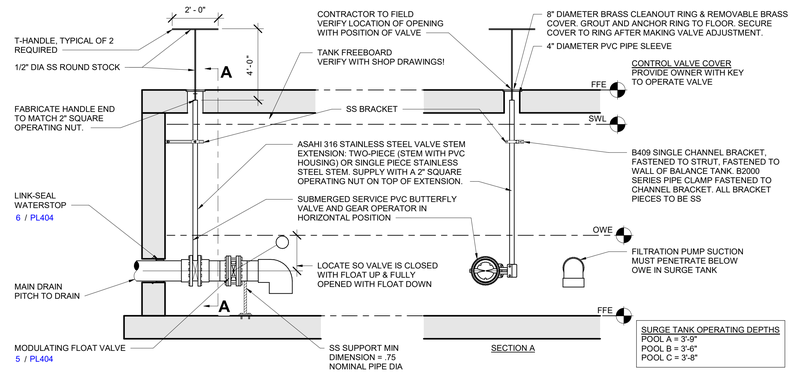
NOTES:
- ON-SITE ADJUSTMENT OF FLOATS SHALL BE POOL CONTRACTOR'S RESPONSIBILITY.
- DIMENSIONS ARE BASED ON VALVE AS SPECIFIED.
- CONTRACTOR SHALL CUR ARM IN FIELD AS REQUIRED TO ACCOMMODATE ACTUAL "G" DIMENSIONS.

5 | MAIN DRAIN FLOAT VALVE PLAN VIEW
PL404 NONE

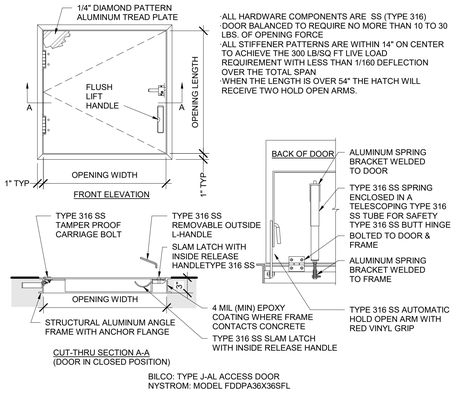


NOTES:
1. AUTOFILL VALVE ASSEMBLY STRAINER & FLOAT CONTROL COMPONENTS FURNISHED BY POOL CONTRACTOR.
2. AUTOFILL VALVE ASSEMBLY STRAINER & FLOAT CONTROL COMPONENTS INSTALLED BY A LICENSED PLUMBER.
3. TERMINATE STILLING CHAMBER AND FILL PIPE 12" ABOVE SURGE TANK FLOOR.
4. RECOMMENDED WATER HARDNESS FROM POTABLE WATER SUPPLY IS 150-400 PPM CaCO3.
5. PROVIDE A MINIMUM 4'-0" STANDPIPE HEIGHT ABOVE POOL SWL.

10 | AUTOFILL/WATER LEVEL CONTROL PLAN VIEW
PL404 NONE



1 | MAIN DRAIN PENETRATION PLAN VIEW
PL404 NONE



2 | ACCESS HATCH DETAIL VIEW
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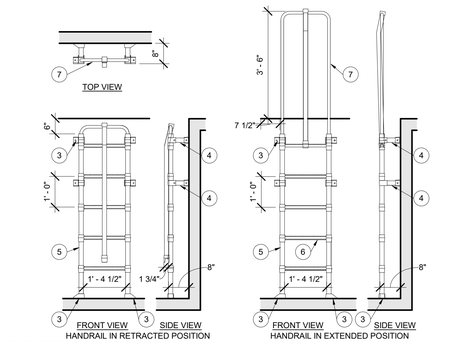

KEYED NOTES:
1. LADDERS WITH PULL-UP HANDRAIL, AVAILABLE IN 5 RUNG THROUGH 25 RUNG.
2. POLYPROPYLENE CONFORMS TO ASTM D-4101. LADDERS MEET ALL ASTM C-497 LOAD REQUIREMENTS & OSHA 1910.26 & 1910.27 SPECIFICATIONS.
3. FASTEN LADDER TO FLOOR & WALL WITH 1/2" DIAMETER STAINLESS STEEL HILTI KWIK BOLT TZ ANCHORS WITH 3 1/4" EMBEDMENT. ANCHORS TO BE INSTALLED PER MANUFACTURERS INSTRUCTIONS.
4. STANDARD ADJUSTABLE MOUNTING BRACKET - 8" OD
5. ALUMINUM REINFORCED COPOLYMER POLYPROPYLENE RAIL 1-3/4" x 1-3/4" DIA
6. STEEL REINFORCED COPOLYMER POLYPROPYLENE RUNG 1-5/8" x 1-1/4" DIA WITH MOLDED FINGER GRIPS, 12" CC
7. ALUMINUM & STEEL REINFORCED COPOLYMER POLYPROPYLENE PULL-UP HANDRAIL. LADDER MANUFACTURED BY LANE INTERNATIONAL CORPORATION, P.O. BOX 925, TUALATIN, OREGON 800-666-0076

3 | ACCESS LADDER DETAIL VIEW
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CHICO AREA RECREATION & PARK DISTRICT

Project Number	23214
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Date	2025-01-24

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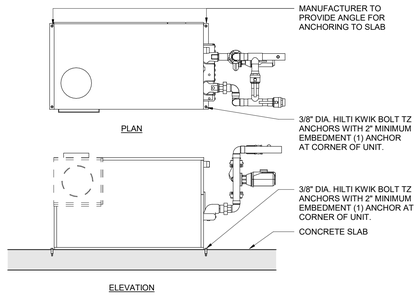
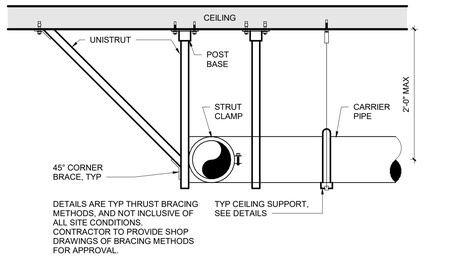
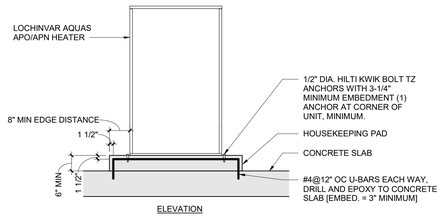


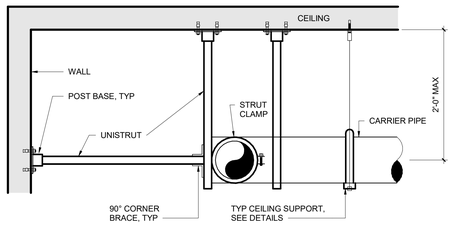
9 PL405 HEATER ANCHOR DETAIL VIEW
NOT TO SCALE



5 PL405 PIPE THRUST BRACING DETAIL VIEW
NOT TO SCALE

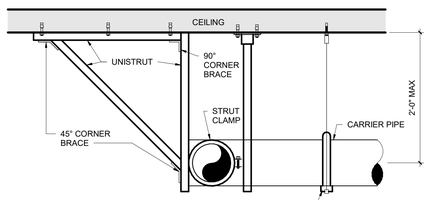


10 PL405 HEATER ANCHOR DETAIL VIEW
NOT TO SCALE

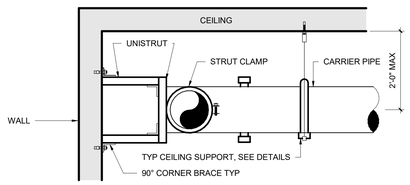


DETAILS ARE TYP THRUST BRACING METHODS, AND NOT INCLUSIVE OF ALL SITE CONDITIONS. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF BRACING METHODS FOR APPROVAL.

6 PL405 PIPE THRUST BRACING DETAIL VIEW
NOT TO SCALE



7 PL405 PIPE THRUST BRACING DETAIL VIEW
NOT TO SCALE



DETAILS ARE TYP THRUST BRACING METHODS, AND NOT INCLUSIVE OF ALL SITE CONDITIONS. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF BRACING METHODS FOR APPROVAL.

8 PL405 PIPE THRUST BRACING DETAIL VIEW
NOT TO SCALE

PIPING DISTRIBUTION SYSTEM BRACING NOTE

PIPING DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5., 13.6.6, 13.6.7, 13.6.8. AND 2022 CBC, SECTIONS 1617A.1.23, 1617A.1.24, 1617A.1.25, 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON PREAPPROVED INSTALLATION GUIDE (e.g. SMACNA), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEM (E):

MP☐ MD☐ PP☐ E☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #) #0043-13.

MP☐ MD☐ PP☐ E☐ OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL _____ AND CONNECTION LEVEL _____ FOR THE PROJECT AND CONDITIONS.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26, AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WATER) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS, OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORTS THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS OR IN THE CASE OF DISTRIBUTION SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

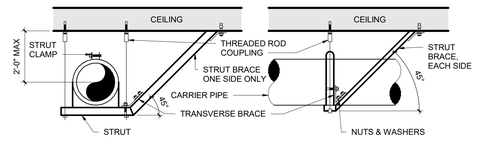
1 PL405 SEISMIC DISTRIBUTION NOTE DETAIL VIEW
NOT TO SCALE

BASIS OF DESIGN FOR SUUPORT OF PIPING:
2022 CALIFORNIA BUILDING CODE, CHAPTER 16; ASCE 7-16, CHAPTER 13 - SEISMIC DESIGN OF NONSTRUCTURAL COMPONENTS

MAX ALLOWABLE SUPPORT SPACING FOR PVC PIPE (IN FT)

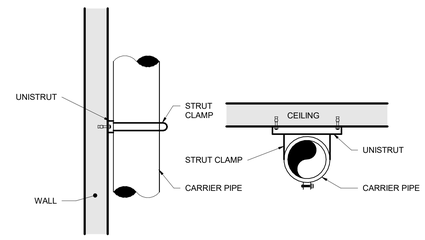
NOMINAL PIPE SIZE	SCHEDULE 40					SCHEDULE 80				
	TEMPERATURE (°F)					TEMPERATURE (°F)				
	60°	80°	100°	120°	140°	60°	80°	100°	120°	140°
1/2"	4.5	4.5	4	2.5	2.5	5	4.5	4.5	3	2.5
3/4"	5	4.5	4	2.5	2.5	5.5	5	4	3	2.5
1"	5.5	5	4.5	3	2.5	6	5.5	5	3.5	3
1 1/4"	5.5	5.5	5	3	3	6	6	5.5	3.5	3
1 1/2"	6	5.5	5	3.5	3	6.5	6	5.5	3.5	3.5
2"	6	5.5	5	3.5	3	7	6.5	6	4	3.5
2 1/2"	7	6.5	6	4	3.5	7.5	7.5	6.5	4.5	4
3"	7	7	6	4	3.5	8	7.5	7	4.5	4
4"	7.5	7	6.5	4.5	4	9	8	7.5	5	4.5
6"	8.5	8	7.5	5	4.5	10	9.5	9	6	5
8"	9	8.5	8	5	4.5	11	10.5	9.5	6.5	5.5
10"	10	9	8.5	5.5	5	12	11	10	7	6
12"	11.5	10.5	9.5	6.5	5.5	12	11	10	7	6

2 PL405 PIPE SUPPORT SCHEDULE DETAIL VIEW
NOT TO SCALE



NOTES:
1. DETAILS ARE TYP SUPPORT METHODS & NOT INCLUSIVE OF ALL SITE CONDITIONS.
2. ALL PIPING SHALL BE RIGIDLY SUPPORTED LATERALLY & VERTICALLY. SUPPORT SYSTEM SHALL PROVIDE ZERO MOVEMENT IN PIPING DURING ALL OPERATING CONDITIONS.
3. PROVIDE THRUST RESTRAINT AT ALL HORIZONTAL/HORIZONTAL, HORIZONTAL/VERTICAL, & VERTICAL/HORIZONTAL CHANGES IN DIRECTION.
4. SEE DIVISION 13 SPECIFICATIONS FOR ADDITIONAL SUPPORT REQUIREMENTS & MATERIALS
5. SEE PIPE SUPPORT TABLE ON DRAWINGS.

3 PL405 PIPE SUPPORT DETAIL VIEW
NOT TO SCALE



NOTES:
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3. PROVIDE THRUST RESTRAINT AT ALL HORIZONTAL/HORIZONTAL, HORIZONTAL/VERTICAL, & VERTICAL/HORIZONTAL CHANGES IN DIRECTION.
4. SEE DIVISION 13 SPECIFICATIONS FOR ADDITIONAL SUPPORT REQUIREMENTS & MATERIALS
5. SEE PIPE SUPPORT TABLE ON DRAWINGS.

4 PL405 PIPE SUPPORT DETAIL VIEW
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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23214
Issue	PERMIT & BID SET
Date	2025-01-24

PL405
MECHANICAL DETAILS

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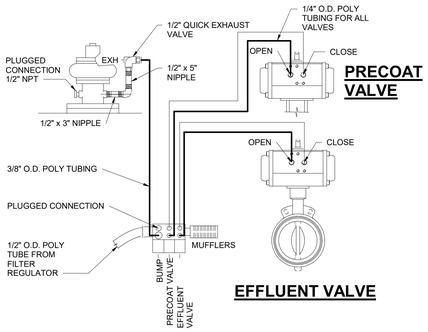
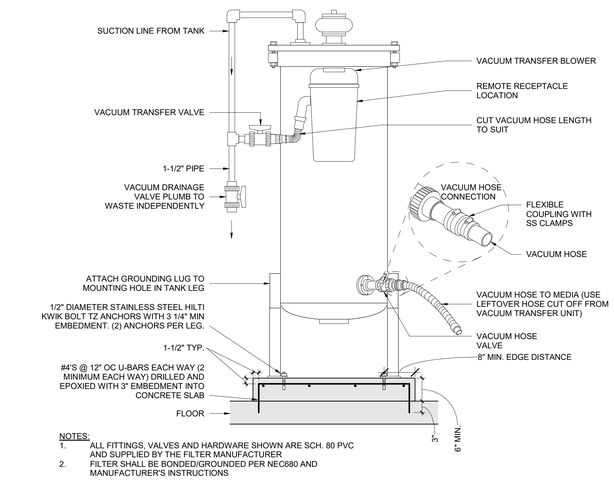
BUMP MECHANISM



SOLENOID HOLE SETUP

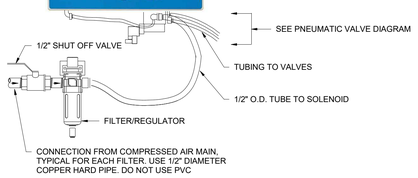
3 PL406 PNEUMATIC VALVE DIAGRAM DETAIL VIEW
NOT TO SCALE



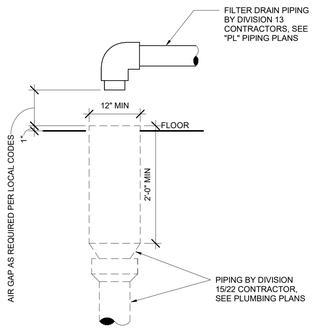
NOTES:
1. ALL FITTINGS, VALVES AND HARDWARE SHOWN ARE SCH. 80 PVC AND SUPPLIED BY THE FILTER MANUFACTURER
2. FILTER SHALL BE BONDED/GROUNDED PER NEC680 AND MANUFACTURER'S INSTRUCTIONS

2 PL406 VACUUM TRANSFER SYSTEM AND FILTER PAD DETAIL
DETAIL VIEW
NOT TO SCALE

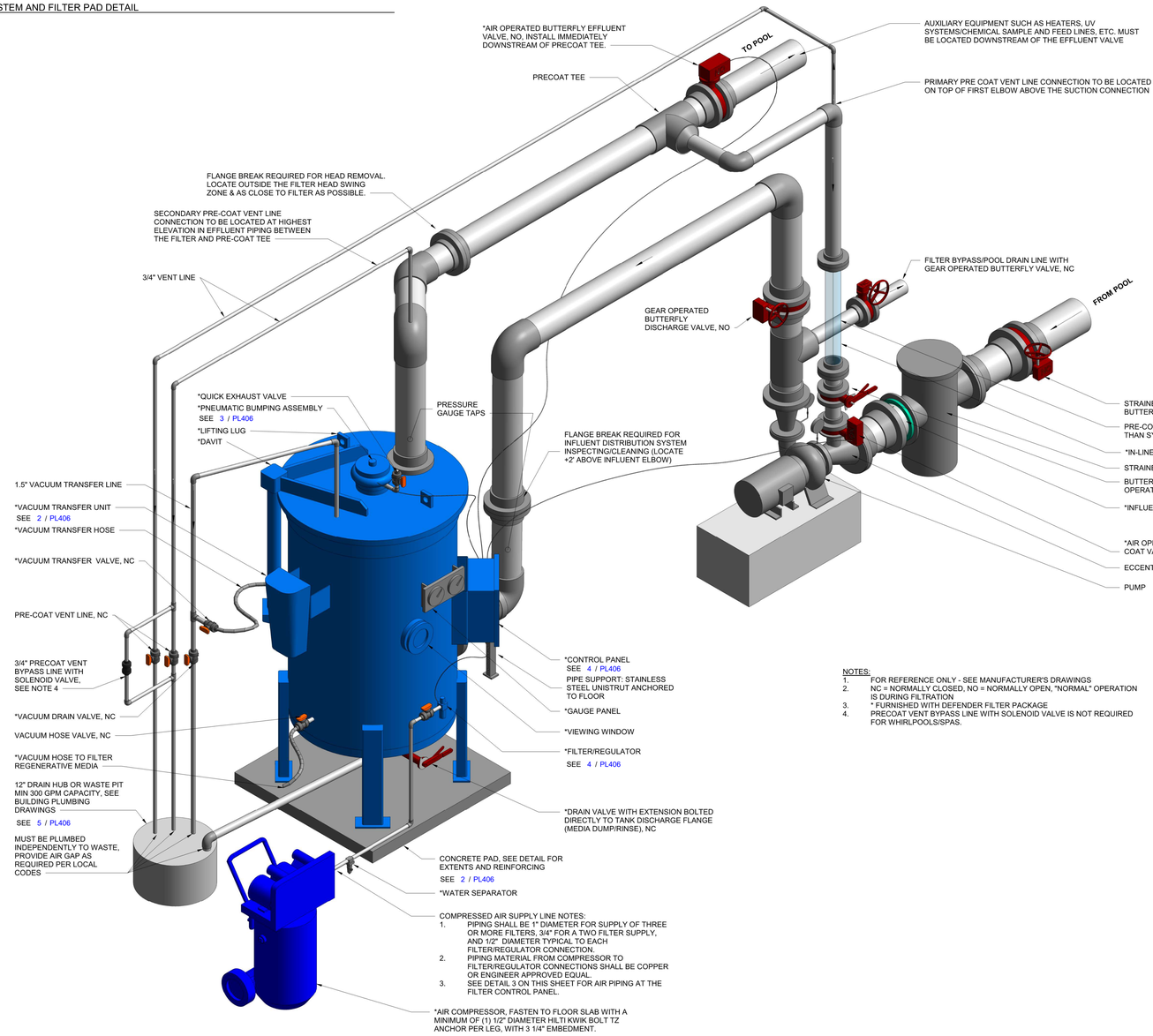
BOTTOM VIEW



4 PL406 FILTER CONTROL PANEL DETAIL VIEW
NOT TO SCALE



5 PL406 REGENERATIVE MEDIA FILTER DRAIN HUB DETAIL VIEW
NOT TO SCALE



NOTES:
1. FOR REFERENCE ONLY - SEE MANUFACTURER'S DRAWINGS
2. NC = NORMALLY CLOSED, NO = NORMALLY OPEN, "NORMAL" OPERATION IS DURING FILTRATION
3. * FURNISHED WITH DEFENDER FILTER PACKAGE
4. PRECOAT VENT BYPASS LINE WITH SOLENOID VALVE IS NOT REQUIRED FOR WHIRLPOOLS/SPAS.

1 PL406 DEFENDER FILTER SCHEMATIC
NONE

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23214
Issue	PERMIT & BID SET
Date	2025-01-24

PL406
DEFENDER DETAILS

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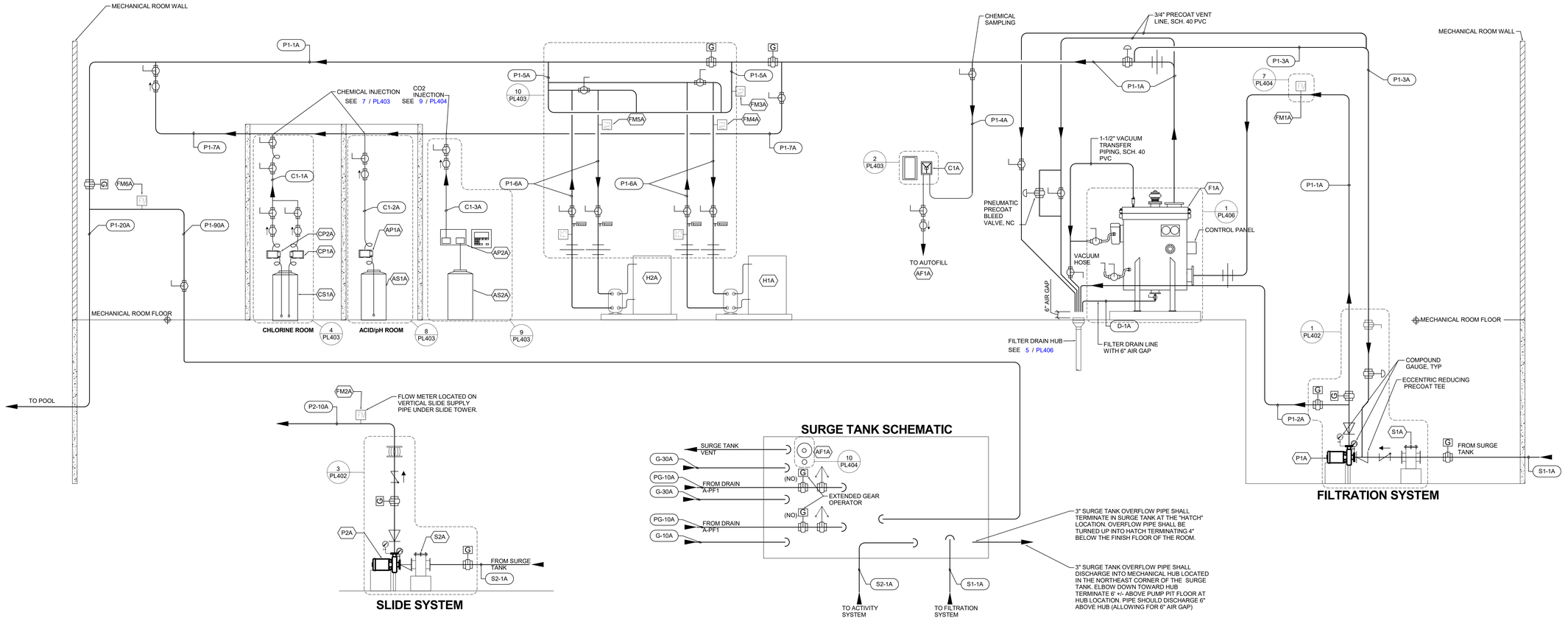
THE LINE SHOWN ABOVE IS EXACTLY 1" LONG ON ORIG. ANSI D SHEETS. ADJUST SCALE ACCORDINGLY

POOL A - 50M COMPETITION POOL PIPE SCHEDULE

PIPE ID	TYPE	NPS (in)	FLOW (gpm)	VELOCITY (fps)	DESCRIPTION
S1-1A	PVC SCH 80	16	2,117	4.3	FILTRATION PUMP SUCTION - MAIN DRAIN
-	-	-	-	-	-
P1-1A	PVC SCH 80	12	2,117	6.8	FILTRATION SUPPLY
P1-2A	PVC SCH 80	4	300	8.5	POOL DRAIN LINE
P1-3A	PVC SCH 80	8	0	0.0	FILTER PRECOAT
P1-4A	PVC SCH 80	0.75	10	7.8	CHEMICAL SAMPLING
P1-5A	PVC SCH 80	6	500	6.3	HEATER LOOP
P1-6A	CPVC SCH 80	4	250	7.1	HEATER CONNECTION
P1-7A	PVC SCH 80	2.5	40	3.1	CHEMICAL LOOP
C1-1A	PVC SCH 80	0.5	0	-	CHLORINE INJECTION
C1-2A	PVC SCH 80	0.5	0	-	ACID INJECTION
C1-3A	PVC SCH 80	N/A	0	-	CO2 INJECTION
D-1A	PVC SCH 80	4	0	-	FILTER DRAIN
P1-20A	PVC SCH 80	12	2,092	6.7	INLET SUPPLY
P1-90A	PVC SCH 80	1.5	25	4.7	SURGE TANK INLET SUPPLY
-	-	-	-	-	-
PG-10A	PVC SCH 80	12	1,059	3.4	MAIN DRAIN, TYP OF 2
-	-	-	-	-	-
G-10A	PVC SCH 40	10	706	2.9	GUTTER
G-20A	PVC SCH 40	10	706	2.9	GUTTER
G-30A	PVC SCH 40	12	906	2.6	GUTTER
-	-	-	-	-	-
S2-1A	PVC SCH 80	6	200	2.5	FLY TYME SLIDE SUCTION - SURGE TANK
P2-10A	PVC SCH 80	4	200	5.7	FLY TYME SLIDE SUPPLY
-	-	-	-	-	-
G-4A	PVC SCH 40	3	0	0.0	SURGE TANK OVERFLOW



2 PL510 POOL A MECHANICAL SCHEMATIC DETAIL VIEW
NOT TO SCALE

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Key Plan

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CHICO AREA RECREATION & PARK DISTRICT

Project Number	23214
Issue	PERMIT & BID SET
Date	2025-01-24

PL510
POOL A MECHANICAL SCHEMATIC

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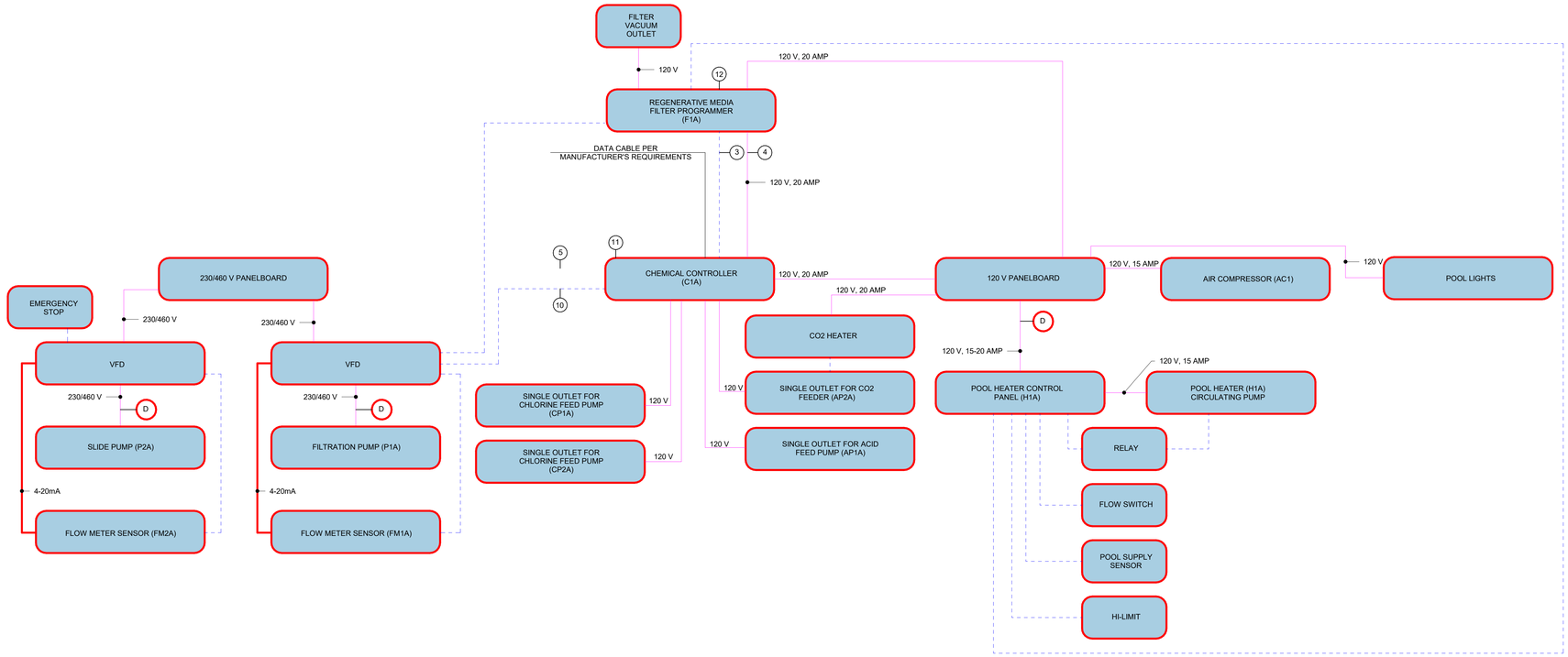

SEQUENCE OF OPERATIONS - SWIMMING POOL WITH REGENERATIVE MEDIA FILTER SYSTEM

FILTRATION PUMP:
- THE NORMAL OPERATING POSITION OF THE FILTRATION PUMP VFD HOA SWITCH IS THE "AUTO" POSITION. IN THE "AUTO" POSITION THE FILTRATION PUMP SHALL RUN AT DESIGN FLOW (FREQUENCY).
- THE FILTRATION PUMP SHALL RUN WHEN THE FILTER PROGRAMMER IS IN THE FILTRATION MODE.
- THE FILTRATION PUMP SHALL RUN AT REDUCED SPEED WHEN THE FILTER PROGRAMMER IS IN THE PRECOAT MODE. COORDINATE SPEED SETTING WITH FILTER COMISSIONING AGENT.
- THE FILTRATION PUMP SHALL NOT RUN WHEN THE FILTER PROGRAMMER IS IN THE BUMP OR OFF MODES.

FILTER PROGRAMMER:
- THE FILTER PROGRAMMER'S NORMAL OPERATION IS IN FILTRATION MODE.
- THE FILTER BUMP CYCLE IS ACTIVATED BY THE FILTER PROGRAMMER EITHER AUTOMATICALLY OR BY A PUSH BUTTON.
- THE FILTER PROGRAMMER SHALL RECEIVE A FEEDBACK SIGNAL FROM THE FILTRATION PUMP VFD THAT THE FILTRATION PUMP IS OPERATING.
- THE FILTER PROGRAMMER IS SUPPLIED WITH AUXILIARY CONTACTS TO DISABLE OTHER POOL EQUIPMENT WHEN THE FILTRATION PUMP IS NOT RUNNING DUE TO PUMP FAILURE (FEEDBACK SIGNAL FROM VFD) OR THE PROGRAMMER IS IN THE BUMP OR OFF MODES.

CHEMICAL CONTROLLER & CHEMICAL FEED OUTLETS:
- THE CHEMICAL CONTROLLER CPU SHALL BE POWERED AT ALL TIMES.
- THE CHEMICAL CONTROLLER AND CHEMICAL FEED OUTLETS SHALL BE INTERLOCKED SUCH THAT IF THE FILTRATION PUMP FAILS (SIGNAL VIA THE FILTER PROGRAMMER), THE IN-LINE FLOW SWITCH IS NOT MADE OR THE FILTRATION PROGRAMMER IS IN THE BUMP OR OFF MODE; THE FEED OUTLETS ARE INACTIVE.
- CHEMICAL CONTROLLER FEED OUTLETS ENERGIZES / DE-ENERGIZES SANITIZER AND pH FEED BASED UPON POOL WATER CHEMISTRY.
- SWITCH BETWEEN ACID OUTLET AND CO2 OUTLET IS ACCOMPLISHED MANUALLY BY OPERATOR. LABEL OUTLETS AND SWITCH AS CO2 AND ACID, RESPECTIVELY.
- CHEMICAL CONTROLLER FEED OUTLETS ENERGIZES / DE-ENERGIZES ENZYME FEED BASED UPON TIMED DELIVERY.

CHEMICAL FEED PUMPS
- THE CHEMICAL FEED PUMPS ARE ENERGIZED BY THE CHEMICAL FEED OUTLETS.

CO2 FEED SOLENOID
- THE CO2 FEED SOLENOID IS ACTIVATED BY THE CHEMICAL FEED OUTLETS.

POOL HEATER:
- THE POOL HEATER SHALL BE INTERLOCKED SUCH THAT IF THE FILTRATION PUMP FAILS (SIGNAL VIA THE FILTER PROGRAMMER), OR THE FILTRATION PROGRAMMER IS IN THE BUMP OR OFF MODE; THE HEATER IS INACTIVE.
- THE POOL HEATER CIRCULATING PUMP IS CONTROLLED BY THE POOL HEATER CONTROLLER.
- POOL HEATER CYCLES ON AND OFF AS NEEDED BASED UPON POOL WATER TEMPERATURE.
- POOL HEATER IS INTERLOCKED WITH MANUFACTURER SUPPLIED FLOW SWITCH AND HI-LIMIT TEMP SENSORS.

FLOW METER:
- WHEN FLOW METER POWER SUPPLY IS ENERGIZED, THE FLOW METER SENSOR SHALL PROVIDE THE FLOW READOUT IN GPM.
- THE FLOW METER SHALL PROVIDE FLOW DATA TO THE INDICATED VFD AND CONTROL SPEED OF THE VFD BASED ON FLOW.

POOL EQUIPMENT OPERATING MODES

FILTRATION PROGRAMMER OPERATING MODE	FILTRATION PUMP	CHEMICAL CONTROLLER	CHLORINE FEED	ACID	HEATER
BUMP	O	X	O	O	O
PRECOAT	REDUCED SPEED	X	O	O	O
OFF	O	X	O	O	O
FILTRATION	X	X	X	X	X

"X" INDICATES THE EQUIPMENT IS ENERGIZED/RUNNING.
"O" INDICATES THE EQUIPMENT IS NOT ENERGIZED.

NOTES:
1. LOW VOLTAGE <=24V. ALL LOW VOLTAGE WIRING IS SUPPLIED, INSTALLED AND CONNECTED BY THE POOL CONTRACTOR.
2. IF CONDUIT IS REQUIRED BY CODE FOR LOW VOLTAGE WIRING, THEN THIS MUST BE SPECIFIED BY THE ELECTRICAL CONSULTANT AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
3. IF CODE REQUIRES THAT LOW VOLTAGE WIRING IS INSTALLED BY A LICENSED ELECTRICAL CONTRACTOR THEN THIS MUST BE SPECIFIED BY THE ELECTRICAL CONSULTANT
4. CONDUIT, WIRE SIZES, AND SHIELDING REQUIREMENTS SHALL BE DETERMINED & SPECIFIED BY THE ELECTRICAL CONSULTANT AS NEEDED PER LOCAL BUILDING AND ELECTRICAL CODE REQUIREMENTS.
5. THIS SCHEMATIC DRAWING IS NOT AN ELECTRICAL INSTALLATION DIAGRAM AND IS FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE POOL CONTRACTOR TO COORDINATE ALL INTERLOCKS WITH THE ELECTRICAL CONTRACTOR. THE POOL CONTRACTOR IS RESPONSIBLE TO PROVIDE AN OPERATING SYSTEM PER THE SEQUENCE OF OPERATIONS.

KEYNOTES: (#)

1. NOT USED
2. NOT USED
3. TDS CONTROL.
4. PROVIDE (2) WIRES FOR CHEMICAL CONTROLLER INTERLOCK CONNECTION FROM FILTER PROGRAMMER CONTACTS #45 AND #46 TO THE CHEMICAL CONTROLLER RUN/STOP CONTACTS. WHEN FILTER PROGRAMMER IS IN OFF, PRECOAT, OR BUMP MODE, OR THE FILTRATION PUMP IS NOT RUNNING DUE TO POWER FAILURE (SIGNAL FROM VFD), THIS CONNECTION SHALL DISABLE THE CHEMICAL CONTROLLER AND INACTIVATE THE CHEMICAL FEED TO THE SYSTEM.
5. UV BOOST SIGNAL BASED ON COMBINED CHLORINE.
6. ORP OUTPUT FROM CHEMICAL CONTROLLER. EXTENSION CABLE NOT PROVIDED BY EQUIPMENT SUPPLIER.
7. SENSOR CABLE FROM WATER LEVEL SENSOR. FURNISHED WITH WATER LEVEL SENSOR AND INSTALLED BY POOL CONTRACTOR.
8. CONDUCTOR CABLE CONTAINS POWER AND SIGNAL CABLES. COORDINATE REQUIREMENTS WITH WATER LEVEL SENSOR AND CHEMICAL CONTROLLER MANUFACTURERS.
9. NOT USED
10. VFD ANALOG OUTPUT REPEAT FLOW METER DATA TO CHEMICAL CONTROLLER.
11. A FLOW CELL WITH SHUT-OFF SWITCH SHALL COME PREASSEMBLED AND WIRED TO THE CHEMICAL CONTROLLER. POOL CONTRACTOR SHALL ASSURE CHEMICAL CONTROLLER FLOW CELL ASSEMBLY IS WORKING PROPERLY AND DEACTIVATES CHEMICAL FEED UNDER A NO FLOW CONDITION.
12. ELECTRICIAN MUST MOUNT THE SMALL BOX ON THE FRAME OF THE DEFENDER FILTER IN THE PREDRILLED HOLES, CUT THE PLUG OFF THE VACUUM CORD AND HARD WIRE IT TO THE WIRES ALREADY IN THE SMALL BOX.

LEGEND:

- LOW VOLTAGE
- LINE VOLTAGE
- CONTRACTOR TO COORDINATE WITH EQUIPMENT REQUIREMENTS
- (D) DISCONNECT - LOCATE AT EQUIPMENT PER CODE REQUIREMENTS

1 PL511 POOL A ELECTRICAL SCHEMATIC DETAIL VIEW
NOT TO SCALE

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23214
Issue	PERMIT & BID SET
Date	2025-01-24

PL511
POOL A ELECTRICAL SCHEMATIC

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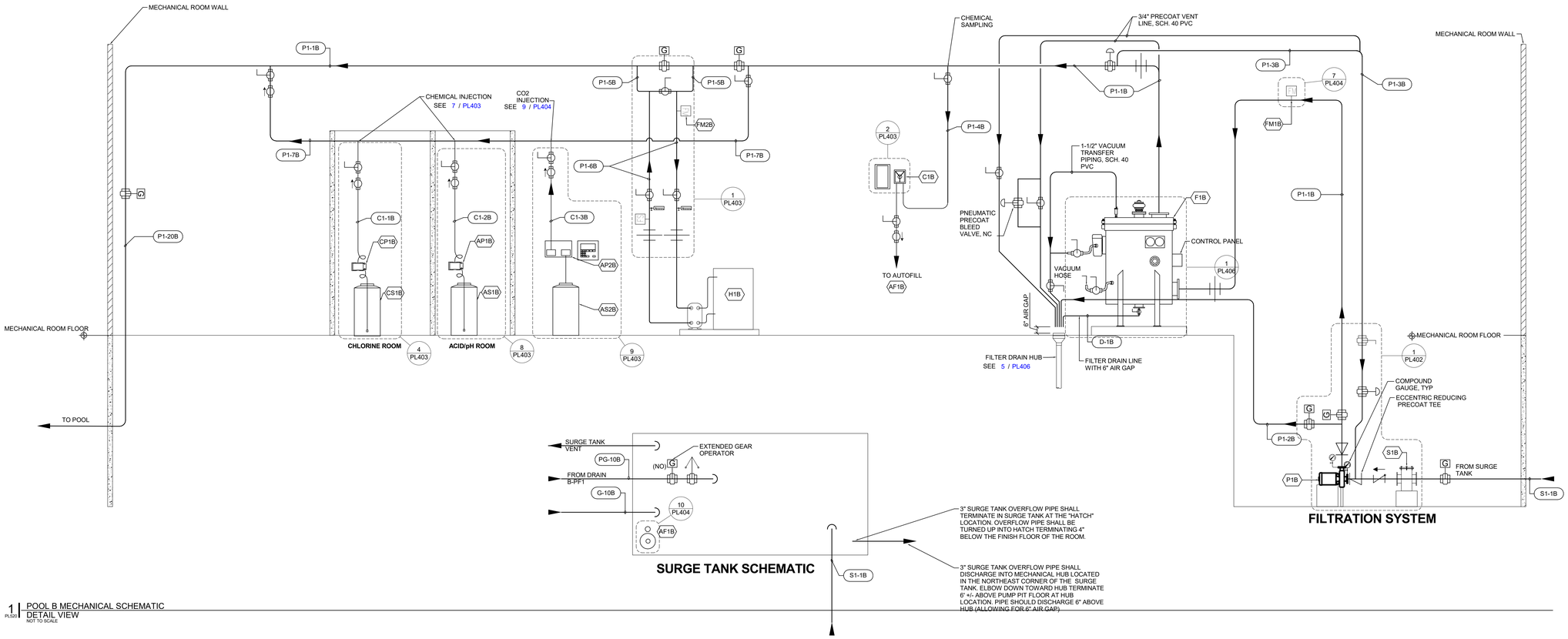
THE LINE SHOWN ABOVE IS EXACTLY 1" ON ORIG. ARCH D SIZED DRAWINGS. ADJUST SCALES ACCORDINGLY

POOL B - PROGRAM POOL PIPE SCHEDULE

PIPE ID	TYPE	NPS (in)	FLOW (gpm)	VELOCITY (fps)	DESCRIPTION
S1-1B	PVC SCH 80	8	440	3.1	FILTRATION PUMP SUCTION - SURGE TANK
-	-	-	-	-	-
P1-1B	PVC SCH 80	6	440	5.5	FILTRATION SUPPLY
P1-2B	PVC SCH 80	4	300	8.5	POOL DRAIN LINE
P1-3B	PVC SCH 80	3	0	0.0	FILTER PRECOAT
P1-4B	PVC SCH 80	0.75	10	7.8	CHEMICAL SAMPLING
P1-5B	PVC SCH 80	3	140	7.0	HEATER LOOP
P1-6B	CPVC SCH 80	2	70	7.8	HEATER CONNECTION
P1-7B	PVC SCH 80	2.5	40	3.1	CHEMICAL LOOP
-	-	-	-	-	-
C1-1B	PVC SCH 80	0.5	0	-	CHLORINE INJECTION
C1-2B	PVC SCH 80	0.5	0	-	ACID INJECTION
C1-3B	PVC SCH 80	N/A	0	-	CO2 INJECTION
D-1B	PVC SCH 80	4	0	-	FILTER DRAIN
-	-	-	-	-	-
P1-20B	PVC SCH 80	6	440	5.5	INLET SUPPLY
-	-	-	-	-	-
PG-10B	PVC SCH 80	8	440	3.1	GUTTER
G-10B	PVC SCH 40	8	440	2.8	GUTTER
-	-	-	-	-	-
G-4B	PVC SCH 40	3	0	0.0	SURGE TANK OVERFLOW



1 PL520 POOL B MECHANICAL SCHEMATIC DETAIL VIEW
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PL520
POOL B MECHANICAL SCHEMATIC

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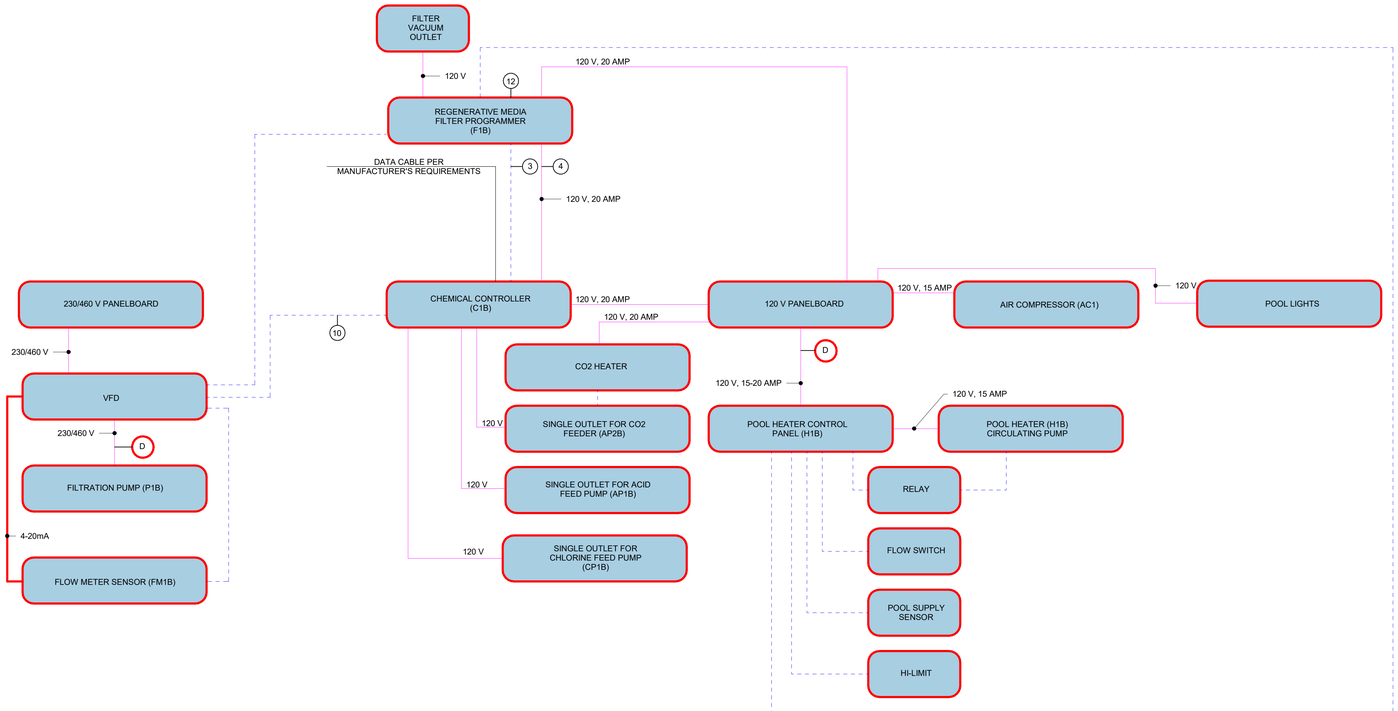

SEQUENCE OF OPERATIONS - SWIMMING POOL WITH REGENERATIVE MEDIA FILTER SYSTEM

FILTRATION PUMP:
- THE NORMAL OPERATING POSITION OF THE FILTRATION PUMP VFD HOA SWITCH IS THE "AUTO" POSITION. IN THE "AUTO" POSITION THE FILTRATION PUMP SHALL RUN AT DESIGN FLOW (FREQUENCY).
- THE FILTRATION PUMP SHALL RUN WHEN THE FILTER PROGRAMMER IS IN THE FILTRATION MODE.
- THE FILTRATION PUMP SHALL RUN AT REDUCED SPEED WHEN THE FILTER PROGRAMMER IS IN THE PRECOAT MODE. COORDINATE SPEED SETTING WITH FILTER COMISSIONING AGENT.
- THE FILTRATION PUMP SHALL NOT RUN WHEN THE FILTER PROGRAMMER IS IN THE BUMP OR OFF MODES.

FILTER PROGRAMMER:
- THE FILTER PROGRAMMER'S NORMAL OPERATION IS IN FILTRATION MODE.
- THE FILTER BUMP CYCLE IS ACTIVATED BY THE FILTER PROGRAMMER EITHER AUTOMATICALLY OR BY A PUSH BUTTON.
- THE FILTER PROGRAMMER SHALL RECEIVE A FEEDBACK SIGNAL FROM THE FILTRATION PUMP VFD THAT THE FILTRATION PUMP IS OPERATING.
- THE FILTER PROGRAMMER IS SUPPLIED WITH AUXILIARY CONTACTS TO DISABLE OTHER POOL EQUIPMENT WHEN THE FILTRATION PUMP IS NOT RUNNING DUE TO PUMP FAILURE (FEEDBACK SIGNAL FROM VFD) OR THE PROGRAMMER IS IN THE BUMP OR OFF MODES.

CHEMICAL CONTROLLER & CHEMICAL FEED OUTLETS:
- THE CHEMICAL CONTROLLER CPU SHALL BE POWERED AT ALL TIMES.
- THE CHEMICAL CONTROLLER AND CHEMICAL FEED OUTLETS SHALL BE INTERLOCKED SUCH THAT IF THE FILTRATION PUMP FAILS (SIGNAL V/A THE FILTER PROGRAMMER), THE IN-LINE FLOW SWITCH IS NOT MADE OR THE FILTRATION PROGRAMMER IS IN THE BUMP OR OFF MODE; THE FEED OUTLETS ARE INACTIVE.
- CHEMICAL CONTROLLER FEED OUTLETS ENERGIZES / DE-ENERGIZES SANITIZER AND pH FEED BASED UPON POOL WATER CHEMISTRY.
- SWITCH BETWEEN ACID OUTLET AND CO2 OUTLET IS ACCOMPLISHED MANUALLY BY OPERATOR. LABEL OUTLETS AND SWITCH AS CO2 AND ACID, RESPECTIVELY.
- CHEMICAL CONTROLLER FEED OUTLETS ENERGIZES / DE-ENERGIZES ENZYME FEED BASED UPON TIMED DELIVERY.

CHEMICAL FEED PUMPS
- THE CHEMICAL FEED PUMPS ARE ENERGIZED BY THE CHEMICAL FEED OUTLETS.

CO2 FEED SOLENOID
- THE CO2 FEED SOLENOID IS ACTIVATED BY THE CHEMICAL FEED OUTLETS.

POOL HEATER:
- THE POOL HEATER SHALL BE INTERLOCKED SUCH THAT IF THE FILTRATION PUMP FAILS (SIGNAL V/A THE FILTER PROGRAMMER), OR THE FILTRATION PROGRAMMER IS IN THE BUMP OR OFF MODE; THE HEATER IS INACTIVE.
- THE POOL HEATER CIRCULATING PUMP IS CONTROLLED BY THE POOL HEATER CONTROLLER.
- POOL HEATER CYCLES ON AND OFF AS NEEDED BASED UPON POOL WATER TEMPERATURE.
- POOL HEATER IS INTERLOCKED WITH MANUFACTURER SUPPLIED FLOW SWITCH AND HI-LIMIT TEMP SENSORS.

FLOW METER:
- WHEN FLOW METER POWER SUPPLY IS ENERGIZED, THE FLOW METER SENSOR SHALL PROVIDE THE FLOW READOUT IN GPM.
- THE FLOW METER SHALL PROVIDE FLOW DATA TO THE INDICATED VFD AND CONTROL SPEED OF THE VFD BASED ON FLOW.

POOL EQUIPMENT OPERATING MODES

FILTRATION PROGRAMMER OPERATING MODE	FILTRATION PUMP	CHEMICAL CONTROLLER	CHLORINE FEED	ACID	HEATER
BUMP	O	X	O	O	O
PRECOAT	REDUCED SPEED	X	O	O	O
OFF	O	X	O	O	O
FILTRATION	X	X	X	X	X

"X" INDICATES THE EQUIPMENT IS ENERGIZED/RUNNING.
"O" INDICATES THE EQUIPMENT IS NOT ENERGIZED.

NOTES:
1. LOW VOLTAGE <=24V. ALL LOW VOLTAGE WIRING IS SUPPLIED, INSTALLED AND CONNECTED BY THE POOL CONTRACTOR.
2. IF CONDUIT IS REQUIRED BY CODE FOR LOW VOLTAGE WIRING, THEN THIS MUST BE SPECIFIED BY THE ELECTRICAL CONSULTANT AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
3. IF CODE REQUIRES THAT LOW VOLTAGE WIRING IS INSTALLED BY A LICENSED ELECTRICAL CONTRACTOR THEN THIS MUST BE SPECIFIED BY THE ELECTRICAL CONSULTANT.
4. CONDUIT, WIRE SIZES, AND SHIELDING REQUIREMENTS SHALL BE DETERMINED & SPECIFIED BY THE ELECTRICAL CONSULTANT AS NEEDED PER LOCAL BUILDING AND ELECTRICAL CODE REQUIREMENTS.
5. THIS SCHEMATIC DRAWING IS NOT AN ELECTRICAL INSTALLATION DIAGRAM AND IS FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE POOL CONTRACTOR TO COORDINATE ALL INTERLOCKS WITH THE ELECTRICAL CONTRACTOR. THE POOL CONTRACTOR IS RESPONSIBLE TO PROVIDE AN OPERATING SYSTEM PER THE SEQUENCE OF OPERATIONS.

KEYNOTES: (#)

1. NOT USED
2. NOT USED
3. TDS CONTROL.
4. PROVIDE (2) WIRES FOR CHEMICAL CONTROLLER INTERLOCK CONNECTION FROM FILTER PROGRAMMER CONTACTS #45 AND #46 TO THE CHEMICAL CONTROLLER RUN/STOP CONTACTS. WHEN FILTER PROGRAMMER IS IN OFF, PRECOAT, OR BUMP MODE, OR THE FILTRATION PUMP IS NOT RUNNING DUE TO POWER FAILURE (SIGNAL FROM VFD), THIS CONNECTION SHALL DISABLE THE CHEMICAL CONTROLLER AND INACTIVATE THE CHEMICAL FEED TO THE SYSTEM.
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LEGEND:

- LOW VOLTAGE
- LINE VOLTAGE
- CONTRACTOR TO COORDINATE WITH EQUIPMENT REQUIREMENTS
- D — DISCONNECT - LOCATE AT EQUIPMENT PER CODE REQUIREMENTS

1 PL521 POOL B ELECTRICAL SCHEMATIC
12" = 1'-0"

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CHICO AREA RECREATION & PARK DISTRICT

Project Number	23214
Issue	PERMIT & BID SET
Date	2025-01-24

PL521
POOL B ELECTRICAL SCHEMATIC

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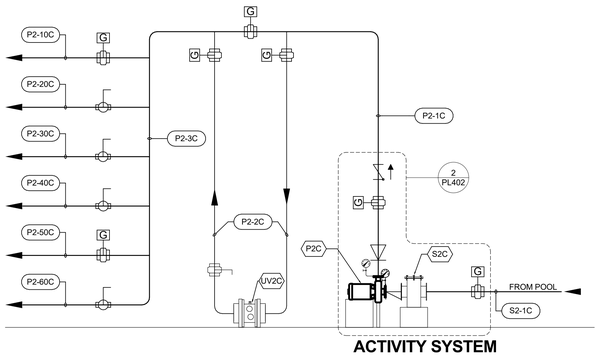
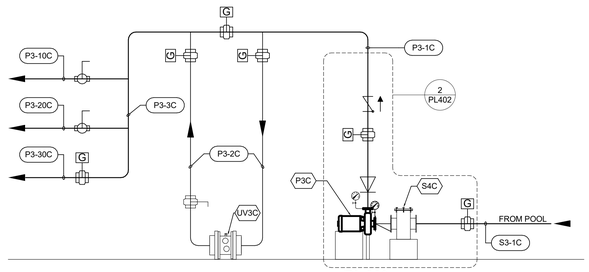
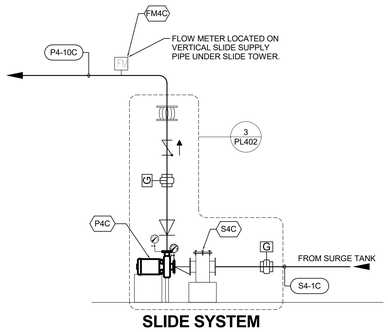


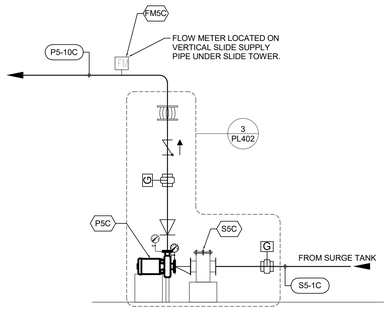
ACTIVITY SYSTEM



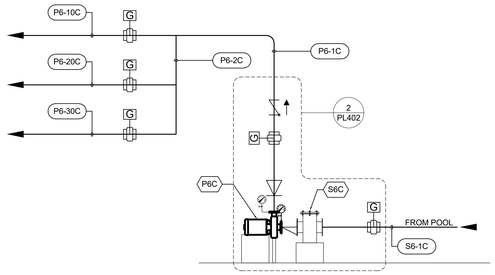
PLAY STRUCTURE SYSTEM



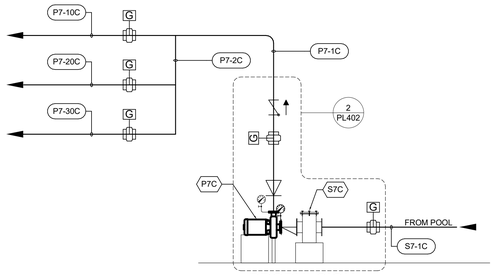
SLIDE SYSTEM



SLIDE SYSTEM



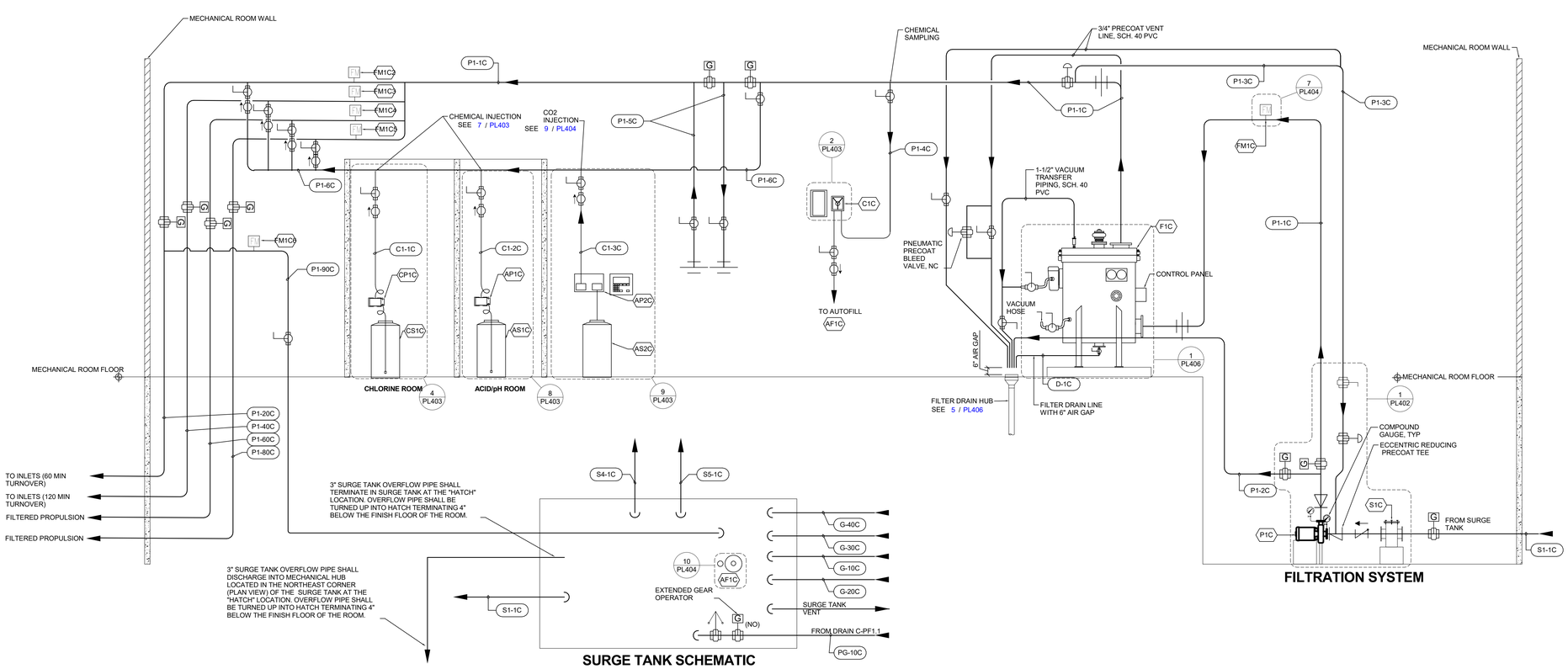
PROPULSION SYSTEM



PROPULSION SYSTEM

POOL C - LEISURE POOL PIPE SCHEDULE

PIPE ID	TYPE	NPS (in)	FLOW (gpm)	VELOCITY (fps)	DESCRIPTION
-	-	-	-	-	-
S1-1C	PVC SCH 80	12	1,435	4.6	FILTRATION PUMP SUCTION - MAIN DRAIN
S1-10C	PVC SCH 80	12	1,435	4.6	FILTRATION PUMP SUCTION - SURGE TANK
-	-	-	-	-	-
P1-1C	PVC SCH 80	10	1,435	6.5	FILTRATION SUPPLY
P1-2C	PVC SCH 80	4	300	8.5	POOL DRAIN LINE
P1-3C	PVC SCH 80	6	0	0.0	FILTER PRECOAT
P1-4C	PVC SCH 80	0.75	10	7.8	CHEMICAL SAMPLING
P1-5C	PVC SCH 80	2.5	0	0.0	FUTURE HEATER CONNECTIONS
C1-1C	PVC SCH 80	0.5	0	-	CHLORINE INJECTION
C1-2C	PVC SCH 80	0.5	0	-	ACID INJECTION
C1-3C	PVC SCH 80	N/A	0	-	CO2 INJECTION
D-1C	PVC SCH 80	4	0	-	FILTER DRAIN
-	-	-	-	-	-
P1-20C	PVC SCH 80	6	509	6.4	INLET SUPPLY (60 MIN TURNOVER)
P1-40C	PVC SCH 80	6	367	4.6	INLET SUPPLY (120 MIN TURNOVER)
P1-60C	PVC SCH 80	4	176	5.0	FILTERED PROPULSION SUPPLY
P1-80C	PVC SCH 80	6	353	4.4	FILTERED PROPULSION SUPPLY
P1-90C	PVC SCH 80	1.5	30	5.6	SURGE TANK INLET SUPPLY
-	-	-	-	-	-
G-10C	PVC SCH 40	10	718	2.9	GUTTER
G-20C	PVC SCH 40	10	718	2.9	GUTTER
-	-	-	-	-	-
S2-1C	PVC SCH 80	6	215	2.7	ACTIVITY PUMP (RIVER) SUCTION - MAIN DRAIN
P2-1C	PVC SCH 80	4	215	6.1	ACTIVITY PUMP (RIVER) SUPPLY
P2-2C	PVC SCH 80	4	215	6.1	UV LOOP
P2-3C	PVC SCH 80	4	215	6.1	ACTIVITY PUMP HEADER
P2-10C	PVC SCH 80	1.5	15	2.8	F02 GEYSER SUPPLY
P2-20C	PVC SCH 80	1.5	15	2.8	F02 GEYSER SUPPLY
P2-30C	PVC SCH 80	1.5	15	2.8	F05 SPRAY FEATURE SUPPLY
P2-40C	PVC SCH 80	2.5	90	7.0	F06 AQUATIC PLAY FEATURE SUPPLY
-	-	-	-	-	-
S3-1C	PVC SCH 80	10	725	3.3	ACTIVITY PUMP (ZDE) SUCTION - MAIN DRAIN
P3-1C	PVC SCH 80	8	725	5.2	ACTIVITY PUMP (ZDE) SUPPLY
P3-2C	PVC SCH 80	8	725	5.2	UV LOOP
P3-3C	PVC SCH 80	2.5	95	7.4	ACTIVITY SUPPLY
P3-10C	PVC SCH 80	2.5	75	5.8	F01 GEYSER SUPPLY
P3-20C	PVC SCH 80	1.5	20	3.7	F03 CASCADE RAINFOREST SUPPLY
P3-30C	PVC SCH 80	8	630	4.5	F07 PLAY STRUCTURE SUPPLY
-	-	-	-	-	-
S4-1C	PVC SCH 80	10	1,000	4.5	OPEN BODY SLIDE SUCTION - SURGE TANK
P4-10C	PVC SCH 80	8	1,000	7.1	OPEN BODY SLIDE SUPPLY
-	-	-	-	-	-
S5-1C	PVC SCH 80	8	500	3.6	ENCLOSED BODY SLIDE - SURGE TANK
P5-10C	PVC SCH 80	6	500	6.3	ENCLOSED BODY SLIDE SUPPLY
-	-	-	-	-	-
S6-1C	PVC SCH 80	14	1,800	4.8	PROPULSION SUCTION - MAIN DRAIN
P6-1C	PVC SCH 80	12	1,800	5.8	PROPULSION SUPPLY
P6-2C	PVC SCH 80	10	1,200	5.4	PROPULSION SUPPLY
P6-10C	PVC SCH 80	6	600	7.5	PROPULSION SUPPLY
P6-20C	PVC SCH 80	6	600	7.5	PROPULSION SUPPLY
P6-30C	PVC SCH 80	6	600	7.5	PROPULSION SUPPLY
-	-	-	-	-	-
S7-1C	PVC SCH 80	14	1,800	4.8	PROPULSION SUCTION - MAIN DRAIN
P7-1C	PVC SCH 80	12	1,800	5.8	PROPULSION SUPPLY
P7-2C	PVC SCH 80	10	1,200	5.4	PROPULSION SUPPLY
P7-10C	PVC SCH 80	6	600	7.5	PROPULSION SUPPLY
P7-20C	PVC SCH 80	6	600	7.5	PROPULSION SUPPLY
P7-30C	PVC SCH 80	6	600	7.5	PROPULSION SUPPLY
-	-	-	-	-	-
G-4C	PVC SCH 40	3	0	0.0	SURGE TANK OVERFLOW



FILTRATION SYSTEM

SURGE TANK SCHEMATIC

1 PL530 POOL C MECHANICAL SCHEMATIC DETAIL VIEW
NOT TO SCALE

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PL530
POOL C MECHANICAL SCHEMATIC

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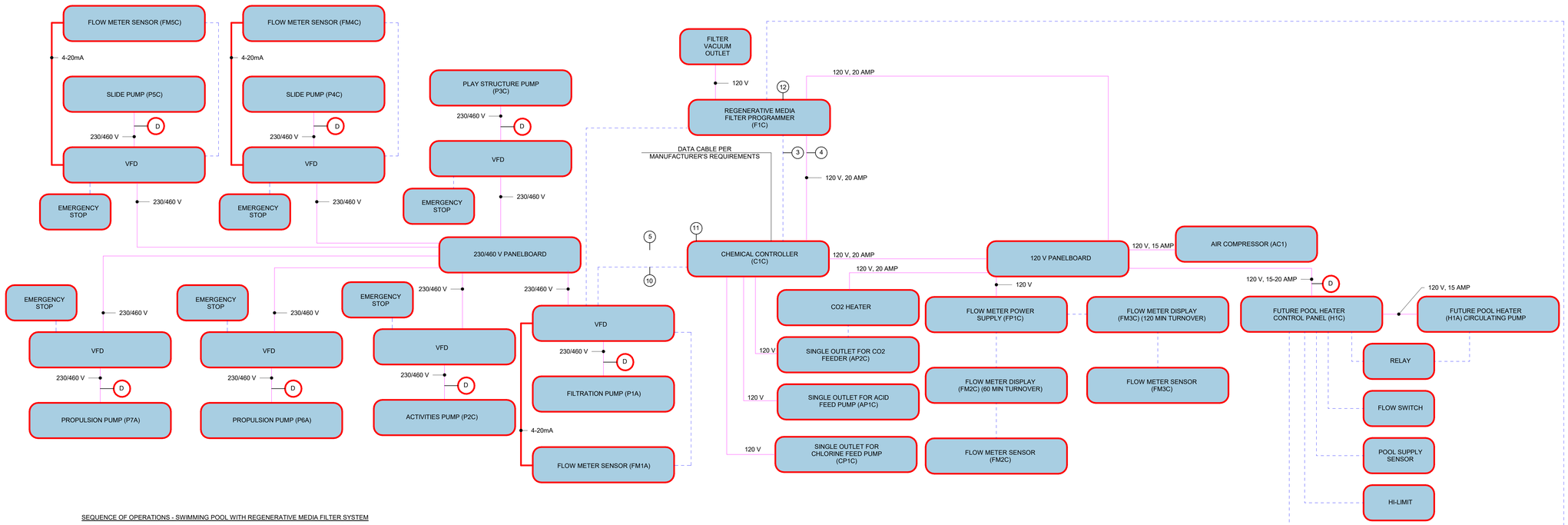
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ORIGINAL DRAWINGS. IF NOT, ADJUST SCALE ACCORDINGLY



1 PL531 POOL C ELECTRICAL SCHEMATIC PLAN VIEW
1/2" = 1'-0"

SEQUENCE OF OPERATIONS - SWIMMING POOL WITH REGENERATIVE MEDIA FILTER SYSTEM

FILTRATION PUMP:
- THE NORMAL OPERATING POSITION OF THE FILTRATION PUMP VFD HOA SWITCH IS THE "AUTO" POSITION. IN THE "AUTO" POSITION THE FILTRATION PUMP SHALL RUN AT DESIGN FLOW (FREQUENCY).
- THE FILTRATION PUMP SHALL RUN WHEN THE FILTER PROGRAMMER IS IN THE FILTRATION MODE.
- THE FILTRATION PUMP SHALL RUN AT REDUCED SPEED WHEN THE FILTER PROGRAMMER IS IN THE PRECOAT MODE. COORDINATE SPEED SETTING WITH FILTER COMISSIONING AGENT.
- THE FILTRATION PUMP SHALL NOT RUN WHEN THE FILTER PROGRAMMER IS IN THE BUMP OR OFF MODES.

FILTER PROGRAMMER:
- THE FILTER PROGRAMMER'S NORMAL OPERATION IS IN FILTRATION MODE.
- THE FILTER BUMP CYCLE IS ACTIVATED BY THE FILTER PROGRAMMER EITHER AUTOMATICALLY OR BY A PUSH BUTTON.
- THE FILTER PROGRAMMER SHALL RECEIVE A FEEDBACK SIGNAL FROM THE FILTRATION PUMP VFD THAT THE FILTRATION PUMP IS OPERATING.
- THE FILTER PROGRAMMER IS SUPPLIED WITH AUXILIARY CONTACTS TO DISABLE OTHER POOL EQUIPMENT WHEN THE FILTRATION PUMP IS NOT RUNNING DUE TO PUMP FAILURE (FEEDBACK SIGNAL FROM VFD) OR THE PROGRAMMER IS IN THE BUMP OR OFF MODES.

CHEMICAL CONTROLLER & CHEMICAL FEED OUTLETS:
- THE CHEMICAL CONTROLLER CPU SHALL BE POWERED AT ALL TIMES.
- THE CHEMICAL CONTROLLER AND CHEMICAL FEED OUTLETS SHALL BE INTERLOCKED SUCH THAT IF THE FILTRATION PUMP FAILS (SIGNAL VIA THE FILTER PROGRAMMER), THE IN-LINE FLOW SWITCH IS NOT MADE OR THE FILTRATION PROGRAMMER IS IN THE BUMP OR OFF MODE; THE FEED OUTLETS ARE INACTIVE.
- CHEMICAL CONTROLLER FEED OUTLETS ENERGIZES / DE-ENERGIZES SANITIZER AND pH FEED BASED UPON POOL WATER CHEMISTRY.
- SWITCH BETWEEN ACID OUTLET AND CO2 OUTLET IS ACCOMPLISHED MANUALLY BY OPERATOR. LABEL OUTLETS AND SWITCH AS CO2 AND ACID, RESPECTIVELY.
- CHEMICAL CONTROLLER FEED OUTLETS ENERGIZES / DE-ENERGIZES ENZYME FEED BASED UPON TIMED DELIVERY.

CHEMICAL FEED PUMPS
- THE CHEMICAL FEED PUMPS ARE ENERGIZED BY THE CHEMICAL FEED OUTLETS.

POOL HEATER:
- THE POOL HEATER SHALL BE INTERLOCKED SUCH THAT IF THE FILTRATION PUMP FAILS (SIGNAL VIA THE FILTER PROGRAMMER), OR THE FILTRATION PROGRAMMER IS IN THE BUMP OR OFF MODE; THE HEATER IS INACTIVE.
- THE POOL HEATER CIRCULATING PUMP IS CONTROLLED BY THE POOL HEATER CONTROLLER.
- POOL HEATER CYCLES ON AND OFF AS NEEDED BASED UPON POOL WATER TEMPERATURE.
- POOL HEATER IS INTERLOCKED WITH MANUFACTURER SUPPLIED FLOW SWITCH AND HI-LIMIT TEMP SENSORS.

FLOW METER:
- WHEN FLOW METER POWER SUPPLY IS ENERGIZED, THE FLOW METER SENSOR SHALL PROVIDE THE FLOW READOUT IN GPM.
- THE FLOW METER SHALL PROVIDE FLOW DATA TO THE INDICATED VFD AND CONTROL SPEED OF THE VFD BASED ON FLOW.

POOL EQUIPMENT OPERATING MODES

FILTRATION PROGRAMMER OPERATING MODE	FILTRATION PUMP	CHEMICAL CONTROLLER	CHLORINE FEED	ACID	HEATER
BUMP	O	X	O	O	O
PRECOAT	REDUCED SPEED	X	O	O	O
OFF	O	X	O	O	O
FILTRATION	X	X	X	X	X

"X" INDICATES THE EQUIPMENT IS ENERGIZED/RUNNING.
"O" INDICATES THE EQUIPMENT IS NOT ENERGIZED.

NOTES:
1. LOW VOLTAGE <=24V. ALL LOW VOLTAGE WIRING IS SUPPLIED, INSTALLED AND CONNECTED BY THE POOL CONTRACTOR.
2. IF CONDUIT IS REQUIRED BY CODE FOR LOW VOLTAGE WIRING, THEN THIS MUST BE SPECIFIED BY THE ELECTRICAL CONSULTANT AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
3. IF CODE REQUIRES THAT LOW VOLTAGE WIRING IS INSTALLED BY A LICENSED ELECTRICAL CONTRACTOR THEN THIS MUST BE SPECIFIED BY THE ELECTRICAL CONSULTANT.
4. CONDUIT, WIRE SIZES, AND SHIELDING REQUIREMENTS SHALL BE DETERMINED & SPECIFIED BY THE ELECTRICAL CONSULTANT AS NEEDED PER LOCAL BUILDING AND ELECTRICAL CODE REQUIREMENTS.
5. THIS SCHEMATIC DRAWING IS NOT AN ELECTRICAL INSTALLATION DIAGRAM AND IS FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE POOL CONTRACTOR TO COORDINATE ALL INTERLOCKS WITH THE ELECTRICAL CONTRACTOR. THE POOL CONTRACTOR IS RESPONSIBLE TO PROVIDE AN OPERATING SYSTEM PER THE SEQUENCE OF OPERATIONS.

KEYNOTES: (#)

1. NOT USED
2. NOT USED
3. TDS CONTROL.
4. PROVIDE (2) WIRES FOR CHEMICAL CONTROLLER INTERLOCK CONNECTION FROM FILTER PROGRAMMER CONTACTS #45 AND #46 TO THE CHEMICAL CONTROLLER RUN/STOP CONTACTS. WHEN FILTER PROGRAMMER IS IN OFF, PRECOAT, OR BUMP MODE, OR THE FILTRATION PUMP IS NOT RUNNING DUE TO POWER FAILURE (SIGNAL FROM VFD), THIS CONNECTION SHALL DISABLE THE CHEMICAL CONTROLLER AND INACTIVATE THE CHEMICAL FEED TO THE SYSTEM.
5. UV BOOST SIGNAL BASED ON COMBINED CHLORINE.
6. ORP OUTPUT FROM CHEMICAL CONTROLLER. EXTENSION CABLE NOT PROVIDED BY EQUIPMENT SUPPLIER.
7. SENSOR CABLE FROM WATER LEVEL SENSOR. FURNISHED WITH WATER LEVEL SENSOR AND INSTALLED BY POOL CONTRACTOR.
8. CONDUCTOR CABLE CONTAINS POWER AND SIGNAL CABLES. COORDINATE REQUIREMENTS WITH WATER LEVEL SENSOR AND CHEMICAL CONTROLLER MANUFACTURERS.
9. NOT USED
10. VFD ANALOG OUTPUT REPEAT FLOW METER DATA TO CHEMICAL CONTROLLER.
11. A FLOW CELL WITH SHUT-OFF SWITCH SHALL COME PREASSEMBLED AND WIRED TO THE CHEMICAL CONTROLLER. POOL CONTRACTOR SHALL ASSURE CHEMICAL CONTROLLER FLOW CELL ASSEMBLY IS WORKING PROPERLY AND DEACTIVATES CHEMICAL FEED UNDER A NO FLOW CONDITION.
12. ELECTRICIAN MUST MOUNT THE SMALL BOX ON THE FRAME OF THE DEFENDER FILTER IN THE PREDRILLED HOLES, CUT THE PLUG OFF THE VACUUM CORD AND HARD WIRE IT TO THE WIRES ALREADY IN THE SMALL BOX.

LEGEND:
- LOW VOLTAGE
- LINE VOLTAGE
- CONTRACTOR TO COORDINATE WITH EQUIPMENT REQUIREMENTS
- D — DISCONNECT - LOCATE AT EQUIPMENT PER CODE REQUIREMENTS

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Revision Schedule

No.	Date	Description
1	1-24-25	PERMIT REVIEW AND BID SET ISSUED

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number	23214
Issue	PERMIT & BID SET
Date	2025-01-24

PL531
POOL C ELECTRICAL SCHEMATIC

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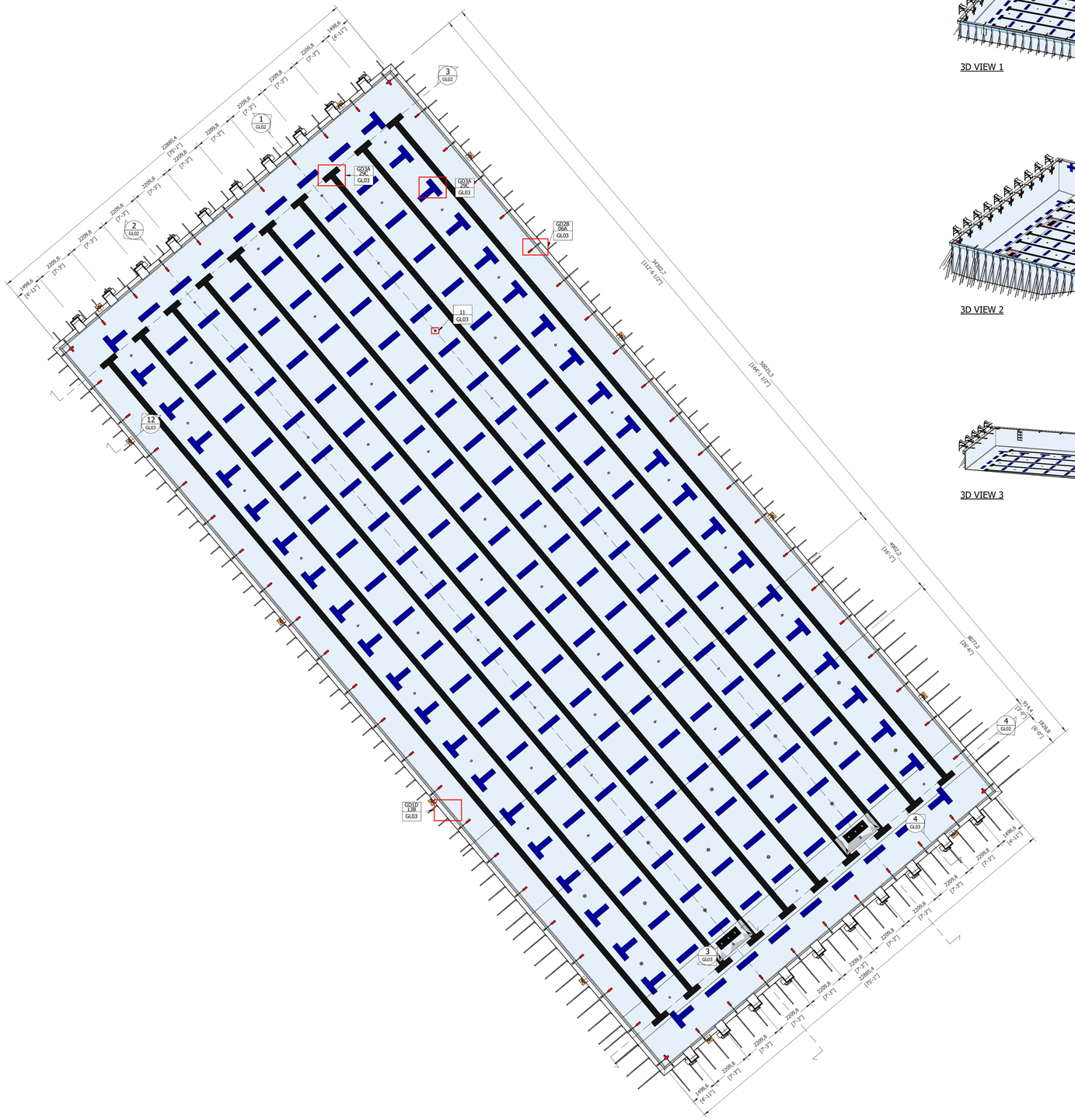
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT FULL SIZE PLOTTING



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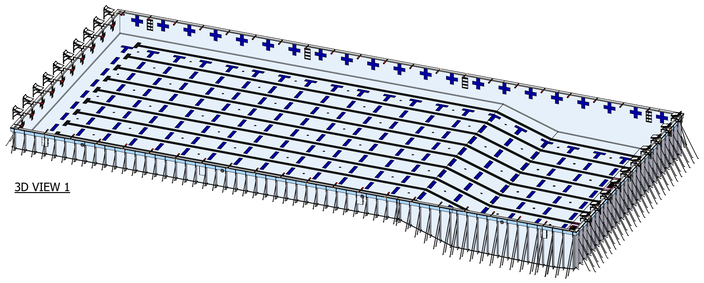

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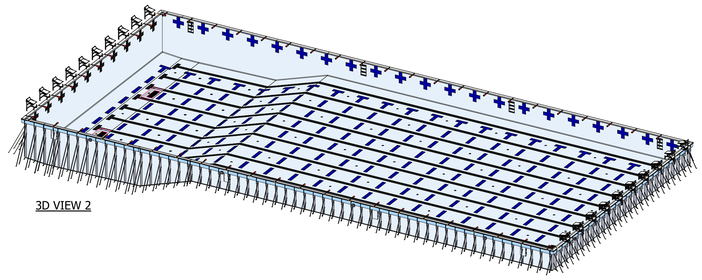
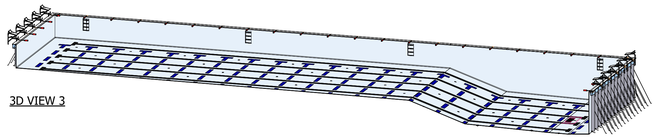


3D VIEW 3



		LEGEND
		BY CONTRACTOR
ALL TECHNOLOGIES	A	GROUTING
	B	CONCRETE FOUNDATION PROVIDED BY GENERAL CONTRACTOR OR POOL CONTRACTOR. STRUCTURAL DESIGN BY BUILDING STRUCTURAL EOR OR POOL STRUCTURAL EOR, MINIMUM COMPRESSIVE STRENGTH SHALL BE 3500 PSI PER ASTM
	C	EXPANSION JOINT
CORROSION	D	SUMP / WALL
	E	WATERPROOFING LAYER
	F	DECK DRAINAGE
BACKFILLED	G	BACKFILL LAID IN THE BACK OF THE MYRTHA STRUCTURE BY 300mm LAYERS COMPACTED MANUALLY. TO BE EXECUTED AFTER THE ASSEMBLY OF POOL STRUCTURES AND FACILITIES. USE WASHED ROUNDED GRAVEL ø10/30mm
ALL TECHNOLOGIES	H	GRAVEL
	I	CONCRETE
		IMPORTANT INFORMATION EXCLUDED WORKS: GENERAL BUILDING WORKS; WATERPROOFING AND SLAB DRAINAGE; PLASTIC JOINT; GROUTING OF BASE FRAME
		*MINIMUM SIZES FOR THE FOUNDATION STABILITY FOR THIS SECTION, IT'S RESPONSIBILITY OF THE MAIN CONTRACTOR THE STATIC CALCULATIONS OF THE CONCRETE CURB. FOR DIFFERENT HEIGHTS OR TECHNOLOGIES REFER TO SPECIFIC SECTION.
		**MINIMUM DIMENSION FOR INSTALLATION OF CHEMICAL ANCHORS.

		BY MYRTHA
ALL TECHNOLOGIES	1	MYRTHA PANEL
	2	BUTTRESS
	3a	MYRTHA GUTTER
	3b	UPPER FRAME
	4a	PVC MEMBRANE
	4b	PVC MEMBRANE ANTISLIP
	5	TEMPLATE
CIVIL WORKS	6a	OFFSET PLATE 5mm
	6b	OFFSET PLATE 10mm
	7a	PANEL SUPPORT BRACKET
	7b	"TIRANTE" VERTICAL BRACKET + "L" PROFILE
	8	STRUT
	9	BASE FRAME
	10	GUTTER / UPPER FRAME SUPPORT
	11a	M12 CHEMICAL ANCHORS
	11b	M16 CHEMICAL ANCHORS
	11c	M20 CHEMICAL ANCHORS
	11d	M24 CHEMICAL ANCHORS
POOL CONSTRUCTION	12	OFFSET PLATE + M10 MECANICAL ANCHORS
	13	MYRTHA VERTICAL GUIDE
CORE	14	POLYSTIRENE FOAM REINFORCEMENT
	15	6x50 WALL PLUG + 5,2x60 FIXING SCREW
FINISHING	16	HORIZONTAL RIBBING
	17	LINK PLATE MYRTHA
	18a	PVC STRIP
	18b	CONTRAST STRIP
	19	"L" PVC PROFILE
	20a	GRATING
	20b	"HAND GRIP" GRATING
	21	FRONT TILE
	22	TOP TILE
	23	"CLASSIC" GUTTER COPING
	24	"STRUCTURAL" CERAMIC ELEMENT
	25a	TILE MOSAIC / GRES
	25b	PVC PROFILE FOR "ZERO ENTRY"
	26a	55x12 PVC PROFILE
	26b	40x8 PVC PROFILE
	26c	TILE SUPPORT (TWO EVERY 600mm)
	27	4,8x35 EXPANSION NAIL
	28a	SOFTWALK PVC PAD
	28b	SOFTWALK FOAM EVA

en. GENERAL NOTES

ALL TECHNOLOGIES

T1. TO ENSURE PROPER INSTALLATION, THE MYRTHA INSTALLATION CONTRACTOR SHALL COMPLY WITH ALL TOLERANCES SHOWN

T2. ALL CONCRETE SURFACE TO RECEIVE PVC MEMBRANE/SKIN SHALL HAVE A SMOOTH FINE SAND PLASTER FINISH

T3. SECONDARY DRAINS SHALL BE INSTALLED TO ENSURE POSITIVE DRAINAGE

T4. ALL MYRTHA STRUCTURE SHALL BE BONDED AND GROUNDED PER LOCAL CODE. MYRTHA SHALL PROVIDE A HOLE IN EACH BUTTRESS FOR A GROUND CONNECTION PROVIDED BY THE POOL CONTRACTOR

T5. MYRTHA SHOP DRAWINGS ARE FOR FINAL APPROVAL FOR MATERIALS SUPPLIED MY MYRTHA ONLY. ITEMS NOT SUPPLIED BY MYRTHA ARE SHOWN FOR CONTEXT ONLY AND SHOULD BE FULLY COORDINATED WITH FINAL POOL DESIGN DRAWINGS

T6. ANY BUILDING WATERPROOFING THAT COMES IN CONTACT WITH PVC MEMBRANE MUST BE COMPATIBLE WITH PVC OR SHALL BE ISOLATED FROM THE PVC MEMBRANE

T7. THE ACCESSORIES INSTALLED ON THE DECK AROUND THE POOL DO NOT GUARANTEE WATERPROOFING, UNLESS TECHNICALLY SPECIFIED OTHERWISE

MYRTHA

M1. ALL CONCRETE DEFICTED IS FOR COORDINATION WITH POOL STRUCTURAL EOR AND STRUCTURAL EOR TO ESTABLISH MINIMUM REQUIREMENTS FOR INSTALLATION OF MYRTHA CHEMICAL ANCHORS. POOL CONTRACTOR SHALL COORDINATE ALL CONCRETE REINFORCING AND DIMENSIONAL REQUIREMENTS WITH QC AND STRUCTURAL EOR

M2. ALL LOADS INDICATED ON THE WALL SECTIONS ARE APPLIED TO THE BUTTRESSES (EVERY 900mm (2' - 11 3/8")), CRITICAL LOADING IS CONSISTENT WITH BACKFILLED STRUCTURES WITH POOL EMPTY

M3. STANDARD TOLERANCE LEVEL OF THE PERIMETER CONCRETE FOOTING IS 20mm (3/4") FROM THE LEVEL INDICATED IN THE SECTION. IF NECESSARY, COORDINATE WITH OTHER STRUCTURAL DRAWINGS

M4. GROUTING UNDER BASE FRAME SHALL BE INSTALLED BY THE POOL CONTRACTOR

RENOVACTION

R1. FOR RENOVACTION PANELS LOCATED IN A COORIDOR CONDITION, THE GENERAL CONTRACTOR SHALL SUPPLY DRAINAGE AT THE DEEPEST SECTION OF PANELS

BACKFILLED

B1. BACKFILLED MATERIAL (DRAINAGE GRAVEL FROM ø10 TO ø30mm =>1/2"=1") NEEDS TO BE COMPLETED IN LAYERS OF A MAXIMUM 300mm (12") OF CLEAN SELF-COMPACTING FILL. ANY BACKFILL COMPACTION MUST BE DONE MANUALLY AND BEFORE THE FILLING OF THE POOL TO AVOID DEFORMATION AND/OR DAMAGE TO THE MYRTHA STRUCTURE. IF IT'S NECESSARY TO FILL THE POOL BEFORE THE BACKFILL OPERATIONS PLEASE CONTACT THE MYRTHA POOLS TECHNICAL DEPARTMENT. THE INSTALLER MUST BE NOTIFIED 48 HOURS IN ADVANCE OF BACKFILL OPERATIONS TO MONITOR THE PROCEDURE AND ENSURE THE COMPATIBILITY WITH THE MYRTHA STRUCTURE

CORRIDOR

C1. THE ACCESS TO THE CORRIDOR MUST BE PROVIDED FOR PERIODIC INSPECTIONS AND MAINTENANCE

C2. INSPECTION CORRIDORS TO BE VENTILATED TO PREVENT CONDENSATION AND CORROSIVE CONDITIONS

GUTTER

G1. BALANCE TANKS ARE TO BE VENTED ACCORDING TO LOCAL CODES TO AVOID VAPOURS IN THE INSPECTION CORRIDORS

G2. STRUCTURAL CERAMIC GUTTER TILE/CLASSIC PVC COPING ARE NOT INTENDED AS A WATERPROOF COMPONENT OF THE POOL

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Revision Schedule

No.	Date	Description

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number _
Issue
Date 12/04/12

GL01
PLAN AND 3D VIEWS

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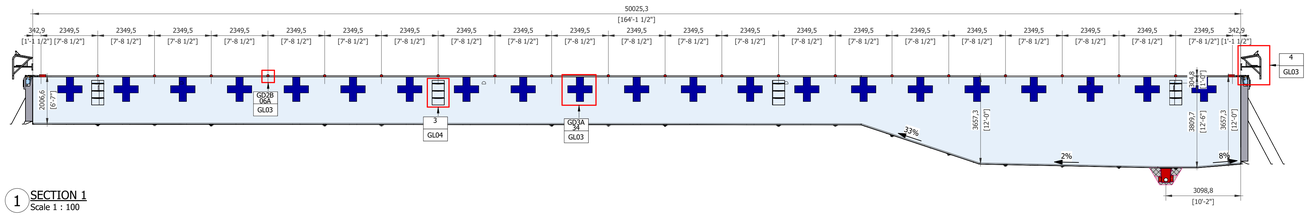
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH (25,4) LONG AT ITS ORIGINAL PAPER SIZE



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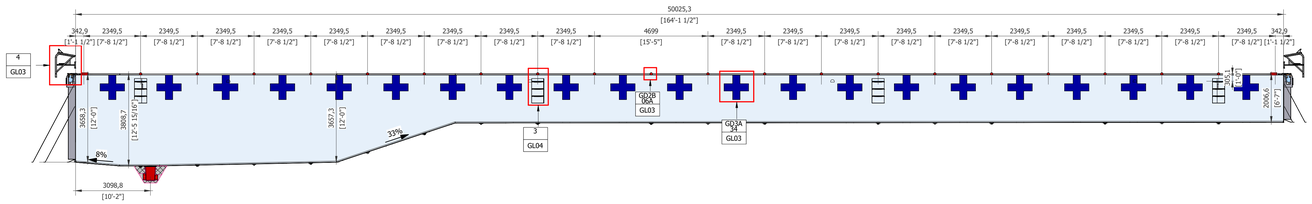

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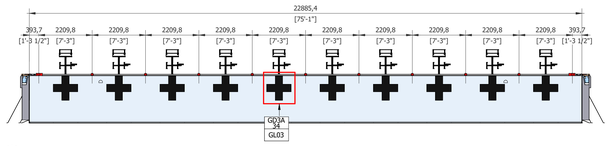

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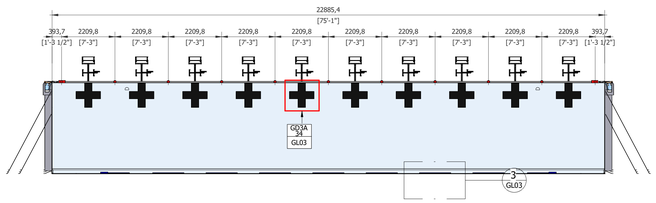

4 SECTION 4
Scale 1 : 100

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T7. THE ACCESSORIES INSTALLED ON THE DECK AROUND THE POOL DO NOT GUARANTEE WATERPROOFING, UNLESS TECHNICALLY SPECIFIED OTHERWISE.

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M2. ALL LOADS INDICATED ON THE WALL SECTIONS ARE APPLIED TO THE BUTTRESSES (EVERY 900mm (2' - 11 3/8")), CRITICAL LOADING IS CONSISTENT WITH BACKFILLED STRUCTURES WITH POOL EMPTY.
M3. STANDARD TOLERANCE LEVEL OF THE PERIMETER CONCRETE FOOTING IS 20mm (3/4") FROM THE LEVEL INDICATED IN THE SECTION. IF NECESSARY, COORDINATE WITH OTHER STRUCTURAL DRAWINGS.
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		LEGEND
		BY CONTRACTOR
ALL TECHNOLOGIES	A	GROUTING
	B	CONCRETE FOUNDATION PROVIDED BY GENERAL CONTRACTOR OR POOL CONTRACTOR. STRUCTURAL DESIGN BY BUILDING STRUCTURAL EOR OR POOL STRUCTURAL EOR. MINIMUM COMPRESSIVE STRENGTH SHALL BE 3500 PSI PER ASTM
CORRIDOR	C	EXPANSION JOINT
	D	SLAB / WALL
	E	WATERPROOFING LAYER
	F	DECK DRAINAGE
BACKFILLED	G	BACKFILL LAID IN THE BACK OF THE MYRTHA STRUCTURE BY 300mm LAYERS COMPACTED MANUALLY. TO BE EXECUTED AFTER THE ASSEMBLY OF POOL STRUCTURES AND FACILITIES. USE WASHED ROUNDED GRAVEL 10/30mm
	H	GRAVEL
	I	CONCRETE
ALL TECHNOLOGIES		**IMPORTANT INFORMATION** EXCLUDED WORKS: GENERAL BUILDING WORKS; WATERPROOFING AND SLAB DRAINAGE; PLASTIC JOINT; GROUTING OF BASE FRAME *MINIMUM SIZES FOR THE FOUNDATION STABILITY FOR THIS SECTION, ITS RESPONSIBILITY OF THE MAIN CONTRACTOR. THE STATIC CALCULATIONS OF THE CONCRETE CURB, FOR DIFFERENT HEIGHTS OR TECHNOLOGIES REFER TO SPECIFIC SECTION. **MINIMUM DIMENSION FOR INSTALLATION OF CHEMICAL ANCHORS
		BY MYRTHA
ONLY A MYRTHA	1	MYRTHA PANEL
	2	BUTTRESS
	3a	MYRTHA GUTTER
	3b	UPPER FRAME
	4a	PVC MEMBRANE
	4b	PVC MEMBRANE ANTISLIP
	5	TEMPLATE
	6a	OFFSET PLATE 5mm
	6b	OFFSET PLATE 10mm
	7a	PANEL SUPPORT BRACKET
	7b	"TRIANTE" VERTICAL BRACKET + "L" PROFILE
	8	STRUT
	9	BASE FRAME
	10	GUTTER / UPPER FRAME SUPPORT
	11a	M12 CHEMICAL ANCHORS
	11b	M16 CHEMICAL ANCHORS
	11c	M20 CHEMICAL ANCHORS
	11d	M24 CHEMICAL ANCHORS
ONLY A MYRTHA RENOVACTION	12	OFFSET PLATE + M10 MECANICAL ANCHORS
	13	MYRTHA VERTICAL GUIDE
	14	POLYSTIRENE FOAM REINFORCEMENT
	15	6x50 WALL PLUG - 4,2x80 FIXING SCREW
	16	HORIZONTAL RIBBING
	17	LINK PLATE MYRTHA
FINISHING	18a	PVC STRIP
	18b	CONTRAST STRIP
	19	"L" PVC PROFILE
	20a	GRATING
	20b	"HAND GRIP" GRATING
	21	FRONT TILE
	22	TOP TILE
	23	"CLASSIC" GUTTER COPING
	24	"STRUCTURAL" CERAMIC ELEMENT
	25a	TILE MOSAIC / GRES
	25b	PVC PROFILE FOR "ZERO ENTRY"
	26a	55x12 PVC PROFILE
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	26c	TILE SUPPORT (TWO EVERY 600mm)
	27	4,8x25 EXPANSION NAIL
	28a	SOFTWALK PVC PAD
	28b	SOFTWALK FOAM EVA

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Chico, CA 95973
530.895.1422

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Revision Schedule

No.	Date	Description

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number _
Issue
Date 12/14/17

GL02
SECTIONS

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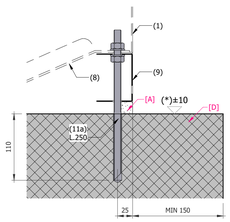
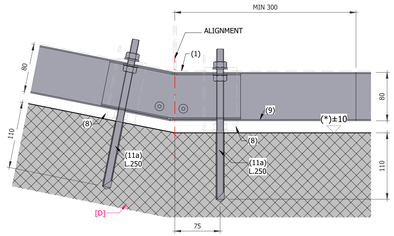
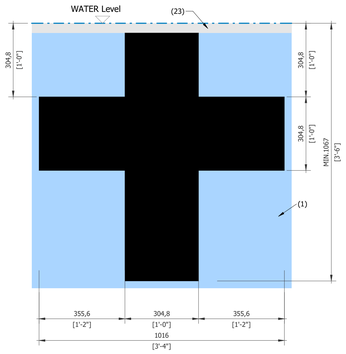
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH (25,4 MM) LONG IF THE DRAWING PAPER SIZE IS CORRECT



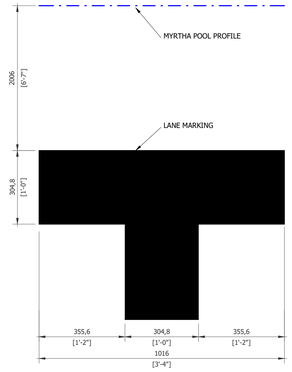
GD1A BASE FRAME DETAIL
01 Scale1 : 4



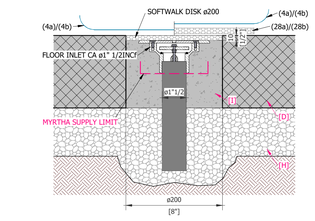
GD1A SLOPING BASE FRAME DETAIL
04 Scale1 : 4



GD3A DF HG - TARGET USA 3'-4"
34 Scale 1 : 10

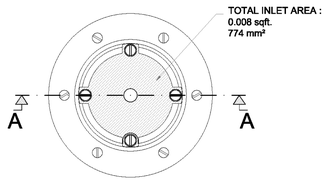


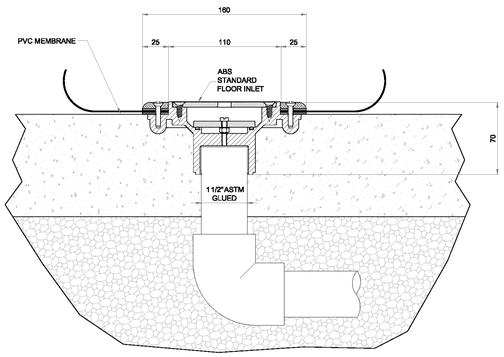
GD3A LANE MARKING USA ['3'-4"] ['6'-7"]
29C Scale 1 : 10



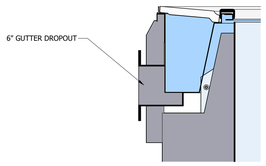
NOTE: IT IS HIGHLY RECOMMENDED TO PROVIDE SECONDARY DRAINS TO BE INSTALLED AT THE DEEPEST SECTIONS OF THE BOTTOM SLAB

GD5B DRAINAGE UNDER MEMBRANE WITHOUT GROUNDWATER
01D Scale 1 : 5

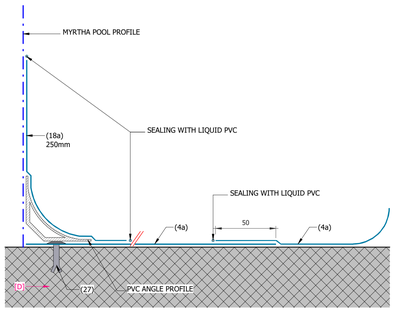




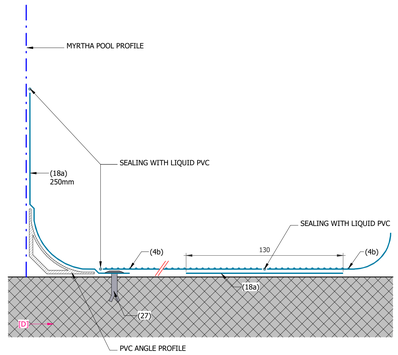
11 MYRTHA FLOOR INLET Ø1-1/2"
Scale 1 : 25



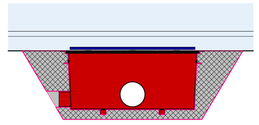
12 MYRTHA 6" GUTTER DROPOUT
Scale 1 : 10



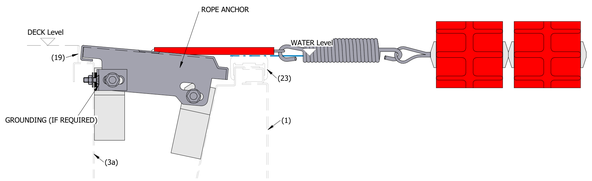
GD1D PVC MEMBRANE + PVC ANGLE PROFILE DETAIL + TRANSITION
13B Scale 1 : 2



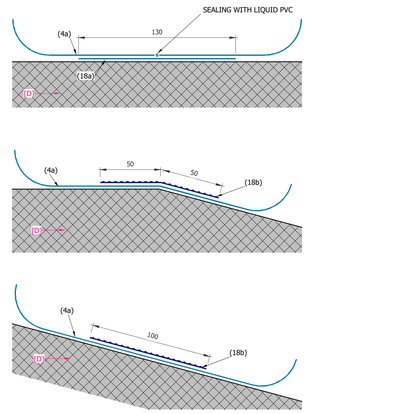
GD1D PVC MEMBRANE ANTISLIP DETAIL + PVC ANGLE PROFILE DETAIL + TRANSITION
14B Scale 1 : 2

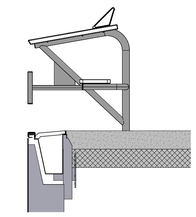


3 18"x36" DALDORADO DRAIN
Scale 1 : 25



GD2B MY/REN DF 00 COMP - ROPE ANCHOR
06A Scale1 : 4





4 MYRTHA HYBRID STARTING BLOCK
Scale 1 : 20

en. GENERAL NOTES

ALL TECHNOLOGIES

T1. TO ENSURE PROPER INSTALLATION, THE MYRTHA INSTALLATION CONTRACTOR SHALL COMPLY WITH ALL TOLERANCES SHOWN.
T2. ALL CONCRETE SURFACE TO RECEIVE PVC MEMBRANE/SKIN SHALL HAVE A SMOOTH FINE SAND PLASTER FINISH
T3. SECONDARY DRAINS SHALL BE INSTALLED TO ENSURE POSITIVE DRAINAGE
T4. ALL MYRTHA STRUCTURE SHALL BE BONDED AND GROUNDED PER LOCAL CODE. MYRTHA SHALL PROVIDE A HOLE IN EACH BUTTRESS FOR A GROUND CONNECTION PROVIDED BY THE POOL CONTRACTOR
T5. MYRTHA SHOP DRAWINGS ARE FOR FINAL APPROVAL FOR MATERIALS SUPPLIED MY MYRTHA ONLY. ITEMS NOT SUPPLIED BY MYRTHA ARE SHOWN FOR CONTEXT ONLY AND SHOULD BE FULLY COORDINATED WITH FINAL POOL DESIGN DRAWINGS
T6. ANY BUILDING WATERPROOFING THAT COMES IN CONTACT WITH PVC MEMBRANE MUST BE COMPATIBLE WITH PVC OR SHALL BE ISOLATED FROM THE PVC MEMBRANE
T7. THE ACCESSORIES INSTALLED ON THE DECK AROUND THE POOL DO NOT GUARANTEE WATERPROOFING, UNLESS TECHNICALLY SPECIFIED OTHERWISE

MYRTHA

M1. ALL CONCRETE DEFICTED IS FOR COORDINATION WITH POOL STRUCTURAL EOR AND STRUCTURAL EOR TO ESTABLISH MINIMUM REQUIREMENTS FOR INSTALLATION OF MYRTHA CHEMICAL ANCHORS. POOL CONTRACTOR SHALL COORDINATE ALL CONCRETE REINFORCING AND DIMENSIONAL REQUIREMENTS WITH GC AND STRUCTURAL EOR.
M2. ALL LOADS INDICATED ON THE WALL SECTIONS ARE APPLIED TO THE BUTTRESSES (EVERY 900mm (2' - 11 3/8")), CRITICAL LOADING IS CONSISTENT WITH BACKFILLED STRUCTURES WITH POOL EMPTY
M3. STANDARD TOLERANCE LEVEL OF THE PERIMETER CONCRETE FOOTING IS 20mm (3/4") FROM THE LEVEL INDICATED IN THE SECTION. IF NECESSARY, COORDINATE WITH OTHER STRUCTURAL DRAWINGS
M4. GROUTING UNDER BASE FRAME SHALL BE INSTALLED BY THE POOL CONTRACTOR

RENOVACTION

R1. FOR RENOVACTION PANELS LOCATED IN A COORIDOR CONDITION, THE GENERAL CONTRACTOR SHALL SUPPLY DRAINAGE AT THE DEEPEST SECTION OF PANELS

BACKFILLED

B1. BACKFILLED MATERIAL (DRAINAGE GRAVEL FROM ø10 TO ø30mm =>(1/2"=1") NEEDS TO BE COMPLETED IN LAYERS OF A MAXIMUM 300mm (12") OF CLEAN SELF-COMPACTING FILL. ANY BACKFILL COMPACTION MUST BE DONE MANUALLY AND BEFORE THE FILLING OF THE POOL TO AVOID DEFORMATION AND/OR DAMAGE TO THE MYRTHA STRUCTURE. IF IT'S NECESSARY TO FILL THE POOL BEFORE THE BACKFILL OPERATIONS PLEASE CONTACT THE MYRTHA POOLS TECHNICAL DEPARTMENT. THE INSTALLER MUST BE NOTIFIED 48 HOURS IN ADVANCE OF BACKFILL OPERATIONS TO MONITOR THE PROCEDURE AND ENSURE THE COMPATIBILITY WITH THE MYRTHA STRUCTURE

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C1. THE ACCESS TO THE CORRIDOR MUST BE PROVIDED FOR PERIODIC INSPECTIONS AND MAINTENANCE
C2. INSPECTION CORRIDORS TO BE VENTILATED TO PREVENT CONDENSATION AND CORROSIVE CONDITIONS

GUTTER

G1. BALANCE TANKS ARE TO BE VENTED ACCORDING TO LOCAL CODES TO AVOID VAPOURS IN THE INSPECTION CORRIDORS
G2. STRUCTURAL CERAMIC GUTTER TILE/CLASSIC PVC COPING ARE NOT INTENDED AS A WATERPROOF COMPONENT OF THE POOL

		LEGEND
		BY CONTRACTOR
ALL TECHNOLOGIES	A	GROUTING
	B	CONCRETE FOUNDATION PROVIDED BY GENERAL CONTRACTOR OR POOL CONTRACTOR. STRUCTURAL DESIGN BY BUILDING STRUCTURAL EOR OR POOL STRUCTURAL EOR. MINIMUM COMPRESSIVE STRENGTH SHALL BE 3500 PSI PER ASTM
CORRIDOR	C	EXPANSION JOINT
	D	SLAB / WALL
BACKFILLED	E	WATERPROOFING LAYER
	F	DECK DRAINAGE
	G	BACKFILL LAID IN THE BACK OF THE MYRTHA STRUCTURE BY 300mm LAYERS COMPACTED MANUALLY. TO BE EXECUTED AFTER THE ASSEMBLY OF POOL STRUCTURES AND FACILITIES. USE WASHED ROUNDED GRAVEL 10/30mm
	H	GRAVEL
	I	CONCRETE
ALL TECHNOLOGIES		**IMPORTANT INFORMATION** EXCLUDED WORKS: GENERAL BUILDING WORKS; WATERPROOFING AND SLAB DRAINAGE; PLASTIC JOINT; GROUTING OF BASE FRAME
		*MINIMUM SIZES FOR THE FOUNDATION STABILITY FOR THIS SECTION, IT'S RESPONSIBILITY OF THE MAIN CONTRACTOR THE STATIC CALCULATIONS OF THE CONCRETE CURB. FOR DIFFERENT HEIGHTS OR TECHNOLOGIES REFER TO SPECIFIC SECTION.
		**MINIMUM DIMENSION FOR INSTALLATION OF CHEMICAL ANCHORS
		BY MYRTHA
ALL TECHNOLOGIES	1	MYRTHA PANEL
	2	BUTTRESS
	3a	MYRTHA GUTTER
	3b	UPPER FRAME
	4a	PVC MEMBRANE
	4b	PVC MEMBRANE ANTISLIP
	5	TEMPLATE
ONLY MYRTHA	6a	OFFSET PLATE 5mm
	6b	OFFSET PLATE 10mm
	7a	PANEL SUPPORT BRACKET
	7b	"TIRANTE" VERTICAL BRACKET + "L" PROFILE
	8	STRUT
	9	BASE FRAME
	10	GUTTER / UPPER FRAME SUPPORT
	11a	M12 CHEMICAL ANCHORS
	11b	M16 CHEMICAL ANCHORS
	11c	M20 CHEMICAL ANCHORS
	11d	M24 CHEMICAL ANCHORS
RENOVACTION ONLY	12	OFFSET PLATE + M10 MECANICAL ANCHORS
	13	MYRTHA VERTICAL GUIDE
	14	POLYSTIRENE FOAM REINFORCEMENT
	15	6x50 WALL PLUG - 4,2x60 FIXING SCREW
CORRIDOR ONLY	16	HORIZONTAL RIBBING
FINISHING	17	LINK PLATE MYRTHA
	18a	PVC STRIP
	18b	CONTRAST STRIP
	19	"L" PVC PROFILE
	20a	GRATING
	20b	"HAND GRIP" GRATING
	21	FRONT TILE
	22	TOP TILE
	23	"CLASSIC" GUTTER COPING
	24	"STRUCTURAL" CERAMIC ELEMENT
	25a	TILE MOSAIC / GRES
	25b	PVC PROFILE FOR "ZERO ENTRY"
	26a	55x12 PVC PROFILE
	26b	40x8 PVC PROFILE
	26c	TILE SUPPORT (TWO EVERY 600mm)
	27	4,8x25 EXPANSION NAIL
	28a	SOFTWALK PVC PAD
	28b	SOFTWALK FOAM EVA

BOTTOM ACCESSORIES

DET. N°	DESCRIPTION	Co.
03/GL03	MYRTHA BY DALDORADO DRAIN, 18"x36", output Ø 4"	2
11/GL03	INLET ø1"1/2	79

FINISHED POOL ACCESSORIES

DET. N°	DESCRIPTION	Co.
04/GL03	MYRTHA HYBRID STARTING BLOCK	20

GUTTER/UPPER FRAME ACCESSORIES

DET. N°	DESCRIPTION	Co.
	GUTTER DRAIN ø160-60INCH	12
GD2B/06A	FLOATING LINE ANCHOR	66

PANEL ACCESSORIES

DET. N°	DESCRIPTION	Co.
03/GL04	FOUR STEP RECESSED LADDER	8

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No.	Date	Description

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number _
Issue
Date 12/14/17

GL03
POOL DETAILS

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THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG. ALTER PRINTS ACCORDINGLY.

TECNOLOGY PLAN

S1- MODIFIED CLASSIC COMPETITION 6'-7"

S2- MODIFIED CLASSIC COMPETITION SLOPING FROM 6'-7" TO 6'-8"

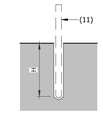
S3- MODIFIED CLASSIC COMPETITION SLOPING FROM 6'-8" TO 12'-0"

S4- MODIFIED CLASSIC COMPETITION SLOPING FROM 12'-0" TO 12'-6"

S5- MODIFIED CLASSIC COMPETITION 12'-6"

S6- MODIFIED CLASSIC COMPETITION SLOPING FROM 12'-6" TO 12'-0"

S7- MODIFIED CLASSIC COMPETITION 12'-0"



THREADED BAR EMBEDMENT DEPTH

(11a) M12	H=110 mm
(11b) M16	H=125 mm
(11c) M20	H=170 mm
(11d) M24	H=210 mm

GENERAL EMBEDMENT DEPTHS ONLY, SITE SPECIFIC ANCHOR BOLT DESIGN IS PENDING

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		BY CONTRACTOR
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	D	SLAB / WALL
	E	WATERPROOFING LAYER
	F	DECK DRAINAGE
BACKFILLED	G	BACKFILL LAID IN THE BACK OF THE MYRTHA STRUCTURE BY 300mm LAYERS COMPACTED MANUALLY. TO BE EXECUTED AFTER THE ASSEMBLY OF POOL STRUCTURES AND FACILITIES. USE WASHED ROUNDED GRAVEL 10/30mm
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CORRIDOR ONLY	16	HORIZONTAL R38RING
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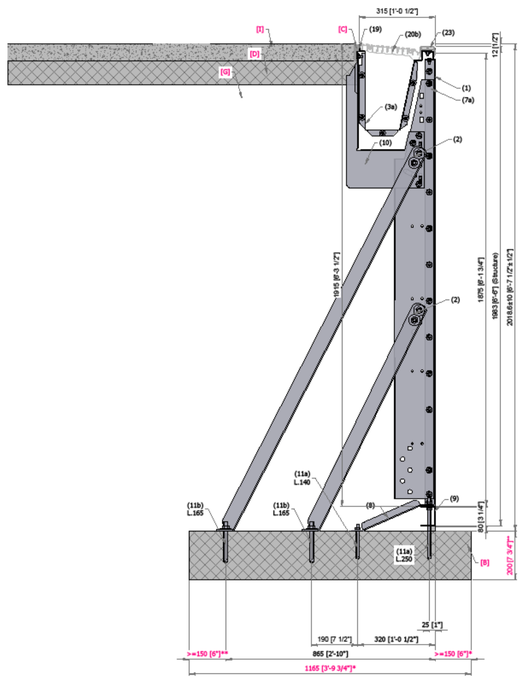
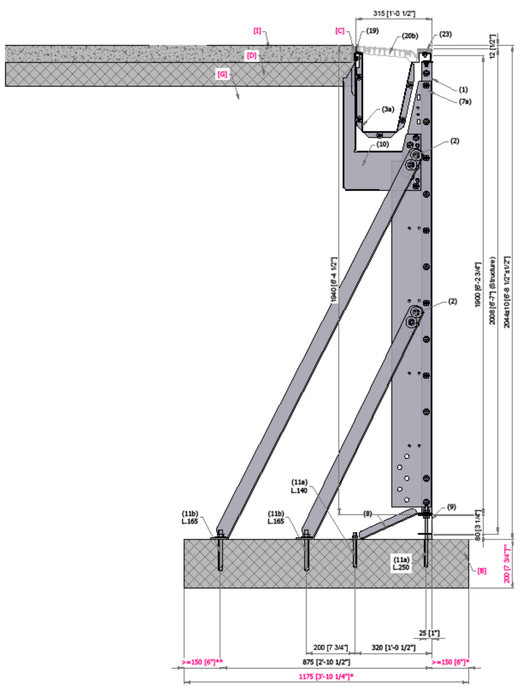
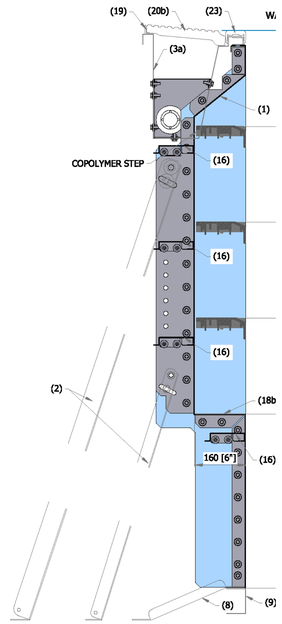
	28a	SOFTWALK PVC PAD
	28b	SOFTWALK FOAM EVA



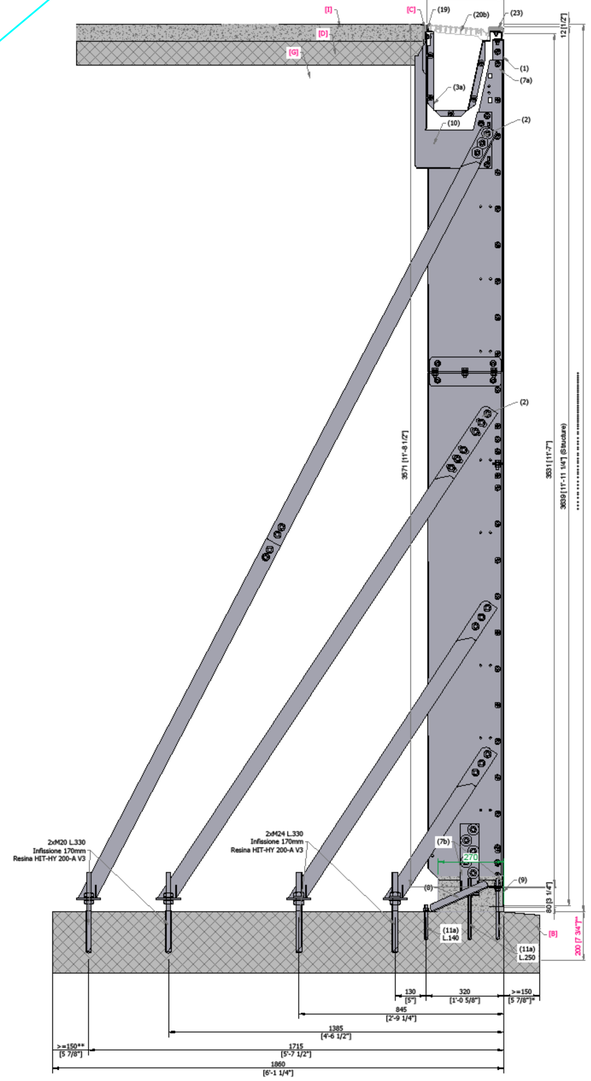
S1 MODIFIED CLASSIC COMPETITION 6'-7"
Scale 1 : 10



S2 MODIFIED CLASSIC COMPETITION 6'-8"
Scale 1 : 10

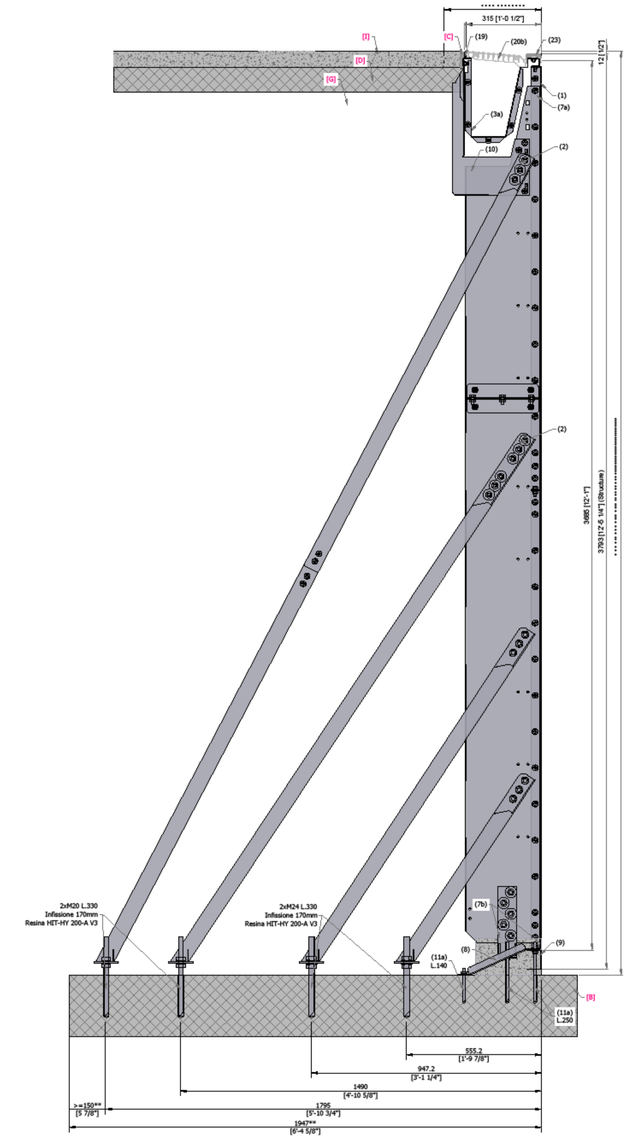


3 FOUR STEP RECESSED LADDER



S3 MODIFIED CLASSIC COMPETITION SLOPING FROM 6'-8" TO 12'-0"
Scale 1 : 10

S7 MODIFIED CLASSIC COMPETITION 12'-0"
Scale 1:10



S4 MODIFIED CLASSIC COMPETITION SLOPING FROM 12'-0" TO 12'-6"
Scale 1 : 10

S5 MODIFIED CLASSIC COMPETITION 12'-6"
Scale 1:10

S6 MODIFIED CLASSIC COMPETITION SLOPING FROM 12'-6" TO 12'-0"
Scale 1:10

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INTERIM REVIEW
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Revision Schedule

No.	Date	Description

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number –
Issue
Date 12/14/17

GL04
TECHNOLOGY PLAN AND WALL SECTIONS

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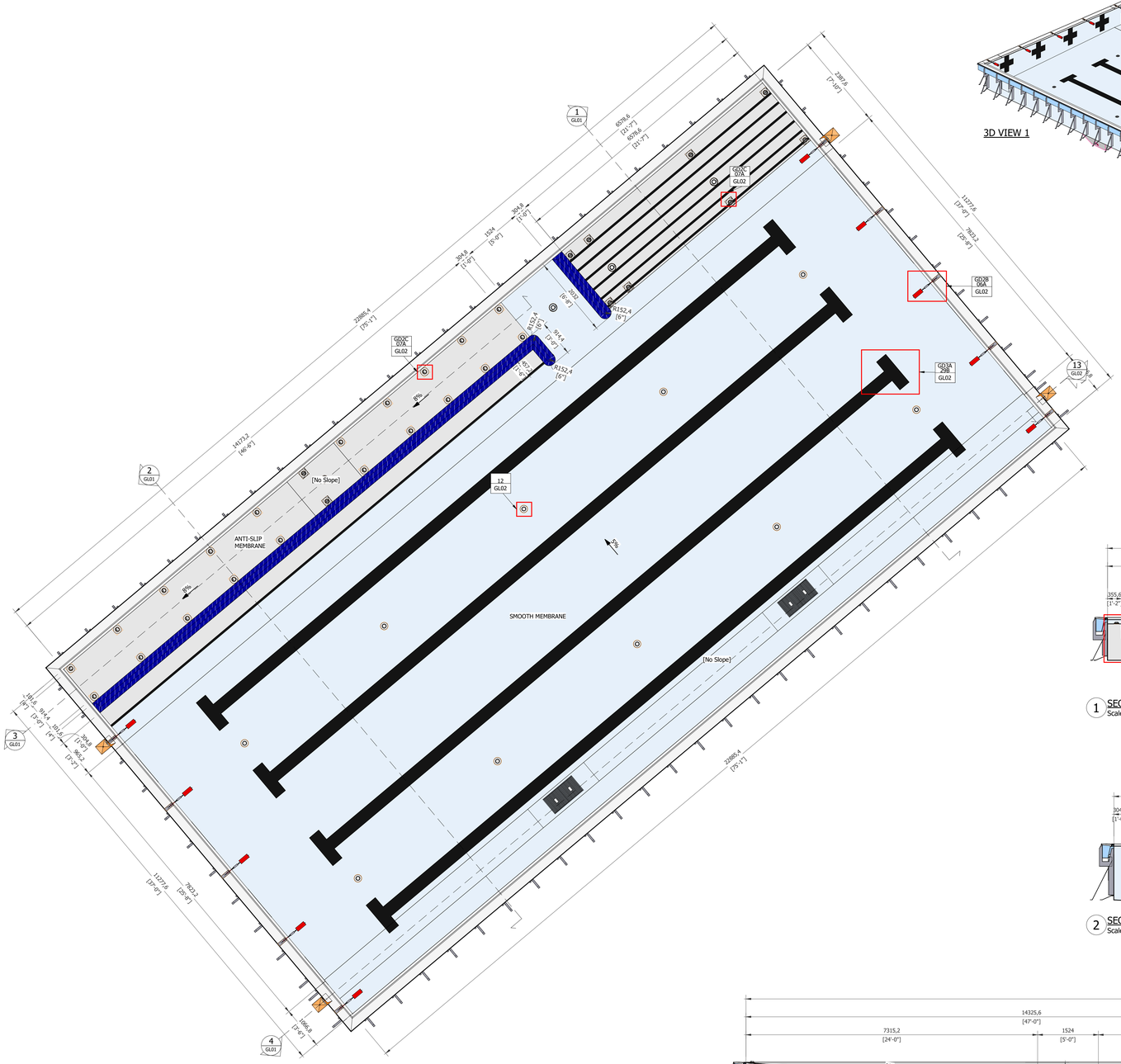
THE LINE SHOWN ABOVE IS EXACTLY 100mm LONG. IF IT'S NOT, PRINT AT THE WRONG SCALE.



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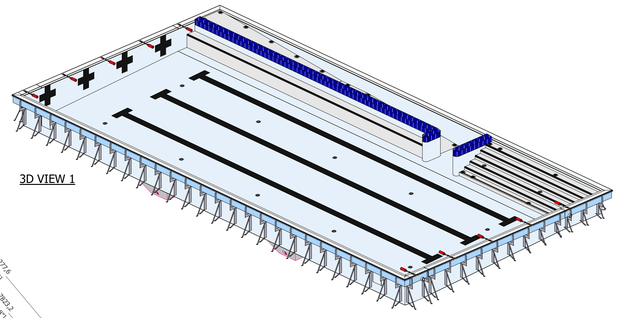
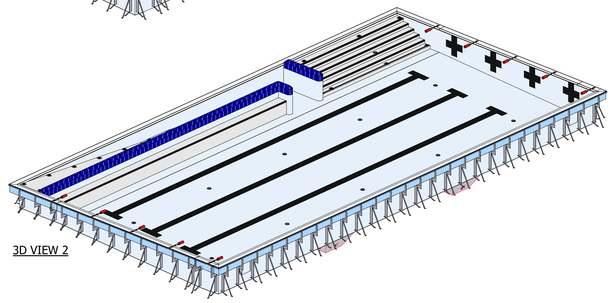
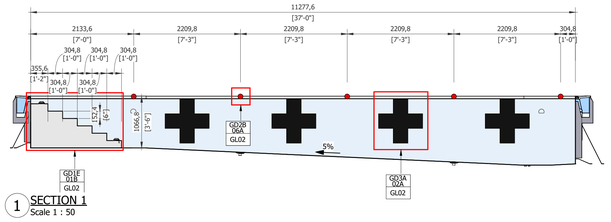
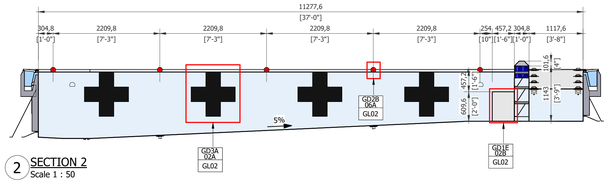


3D VIEW 2





1 SECTION 1
Scale 1 : 50



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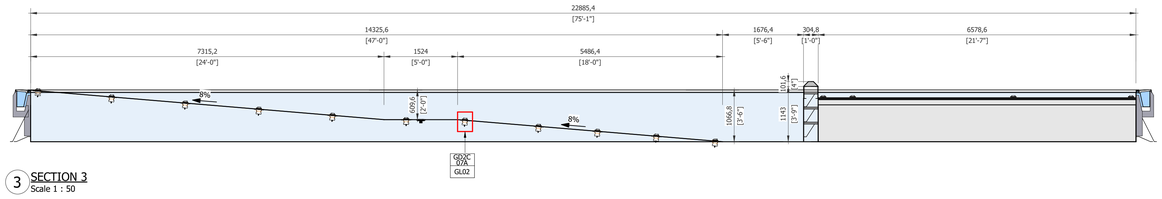
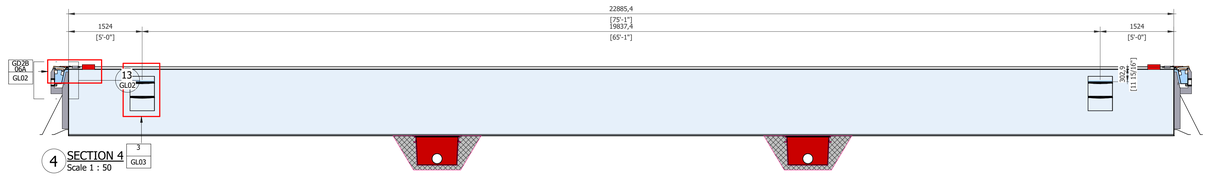
Scale 1 : 50



3 SECTION 3
Scale 1 : 50



4 SECTION 4
Scale 1 : 50

FINISHED POOL ACCESSORIES		
DET. N°	DESCRIPTION	Co.
GD2C/07A	PVC ANCHOR FOR HANDRAIL ø1,5"	30

GUTTER/UPPER FRAME ACCESSORIES		
DET. N°	DESCRIPTION	Co.
	GUTTER DRAIN ø4"	4
GD2B/06A	FLOATING LINE ANCHOR	10

PANEL ACCESSORIES		
DET. N°	DESCRIPTION	Co.
03/GL03	THREE STEP RECESSED LADDER	2

		LEGEND
		BY CONTRACTOR
ALL TECHNOLOGIES	A	GROUTING
	B	CONCRETE FOUNDATION PROVIDED BY GENERAL CONTRACTOR OR POOL CONTRACTOR. STRUCTURAL DESIGN BY BUILDING STRUCTURAL EOR OR POOL STRUCTURAL EOR. MINIMUM COMPRESIVE STRENGTH SHALL BE 3500 PSI PER ASTM
	C	EXPANSION JOINT
CORRIDOR	D	SLAB / WALL
	E	WATERPROOFING LAYER
	F	DECK DRAINAGE
BACKFILLED	G	BACKFILL LAID IN THE BACK OF THE MYRTHA STRUCTURE BY 300mm LAYERS COMPACTED MANUALLY, TO BE EXECUTED AFTER THE ASSEMBLY OF POOL STRUCTURES AND FACILITIES. USE WASHED ROUNDED GRAVEL 19/30mm
ALL TECHNOLOGIES	H	GRAVEL
	I	CONCRETE
		IMPORTANT INFORMATION EXCLUDED WORKS: GENERAL BUILDING WORKS; WATERPROOFING AND SLAB DRAINAGE; ELASTIC JOINT; GROUTING OF BASE FRAME
		*MINIMUM SIZES FOR THE FOUNDATION STABILITY FOR THIS SECTION, IT'S RESPONSIBILITY OF THE MAIN CONTRACTOR THE STATIC CALCULATIONS OF THE CONCRETE CURB. FOR DIFFERENT HEIGHTS OR TECHNOLOGIES REFER TO SPECIFIC SECTION.
		**MINIMUM DIMENSION FOR INSTALLATION OF CHEMICAL ANCHORS.
		BY MYRTHA
ALL TECHNOLOGIES	1	MYRTHA PANEL
	2	BUTTRESS
	3a	MYRTHA GUTTER
	3b	UPPER FRAME
	4a	PVC MEMBRANE
	4b	PVC MEMBRANE ANTISLIP
	5	TEMPLATE
ONLY MYRTHA	6a	OFFSET PLATE 5mm
	6b	OFFSET PLATE 10mm
	7a	PANEL SUPPORT BRACKET
	7b	"TIRANTE" VERTICAL BRACKET + "L" PROFILE
	8	STRUT
	9	BASE FRAME
	10	GUTTER / UPPER FRAME SUPPORT
	11a	M12 CHEMICAL ANCHORS
	11b	M16 CHEMICAL ANCHORS
	11c	M20 CHEMICAL ANCHORS
	11d	M24 CHEMICAL ANCHORS
ONLY MYRTHA	12	OFFSET PLATE + M10 MECHANICAL ANCHORS
	13	MYRTHA VERTICAL GUIDE
	14	POLYSTIRENE FOAM REINFORCEMENT
	15	6x50 WALL PLUG + 5,5x80 FIXING SCREW
CORRIDOR	16	HORIZONTAL RIBBING
	17	LINK PLATE MYRTHA
FINISHING	18a	PVC STRIP
	18b	CONTRAST STRIP
	19	"L" PVC PROFILE
	20a	GRATING
	20b	"HAND GRIP" GRATING
	21	FRONT TILE
	22	TOP TILE
	23	"CLASSIC" GUTTER COPING
	24	"STRUCTURAL" CERAMIC ELEMENT
	25a	TILE MOSAIC / GRES
	25b	PVC PROFILE FOR "ZERO ENTRY"
	26a	55x12 PVC PROFILE
	26b	40x8 PVC PROFILE
	26c	TILE SUPPORT (TWO EVERY 600mm)
	27	4,8x25 EXPANSION NAIL
	28a	SOFTWALK PVC PAD
	28b	SOFTWALK FOAM EVA

en. GENERAL NOTES

ALL TECHNOLOGIES

T1. TO ENSURE PROPER INSTALLATION, THE MYRTHA INSTALLATION CONTRACTOR SHALL COMPLY WITH ALL TOLERANCES SHOWN.
T2. ALL CONCRETE SURFACE TO RECEIVE PVC MEMBRANE/SKIN SHALL HAVE A SMOOTH FINE SAND PLASTER FINISH
T3. SECONDARY DRAINS SHALL BE INSTALLED TO ENSURE POSITIVE DRAINAGE
T4. ALL MYRTHA STRUCTURE SHALL BE BONDED AND GROUNDED PER LOCAL CODE. MYRTHA SHALL PROVIDE A HOLE IN EACH BUTTRESS FOR A GROUND CONNECTION PROVIDED BY THE POOL CONTRACTOR
T5. MYRTHA SHOP DRAWINGS ARE FOR FINAL APPROVAL FOR MATERIALS SUPPLIED MY MYRTHA ONLY. ITEMS NOT SUPPLIED BY MYRTHA ARE SHOWN FOR CONTEXT ONLY AND SHOULD BE FULLY COORDINATED WITH FINAL POOL DESIGN DRAWINGS
T6. ANY BUILDING WATERPROOFING THAT COMES IN CONTACT WITH PVC MEMBRANE MUST BE COMPATIBLE WITH PVC OR SHALL BE ISOLATED FROM THE PVC MEMBRANE
T7. THE ACCESSORIES INSTALLED ON THE DECK AROUND THE POOL DO NOT GUARANTEE WATERPROOFING, UNLESS TECHNICALLY SPECIFIED OTHERWISE

MYRTHA

M1. ALL CONCRETE DEPICTED IS FOR COORDINATION WITH POOL STRUCTURAL EOR AND STRUCTURAL EOR TO ESTABLISH MINIMUM REQUIREMENTS FOR INSTALLATION OF MYRTHA CHEMICAL ANCHORS. POOL CONTRACTOR SHALL COORDINATE ALL CONCRETE REINFORCING AND DIMENSIONAL REQUIREMENTS WITH GC AND STRUCTURAL EOR
M2. ALL LOADS INDICATED ON THE WALL SECTIONS ARE APPLIED TO THE BUTTRESSES (EVERY 900mm (2' - 11 3/8")). CRITICAL LOADING IS CONSISTENT WITH BACKFILLED STRUCTURES WITH POOL EMPTY
M3. STANDARD TOLERANCE LEVEL OF THE PERIMETER CONCRETE FOOTING IS 20mm (3/4") FROM THE LEVEL INDICATED IN THE SECTION. IF NECESSARY, COORDINATE WITH OTHER STRUCTURAL DRAWINGS
M4. GROUTING UNDER BASE FRAME SHALL BE INSTALLED BY THE POOL CONTRACTOR

RENOVACTION

R1. FOR RENOVACTION PANELS LOCATED IN A CORRIDOR CONDITION, THE GENERAL CONTRACTOR SHALL SUPPLY DRAINAGE AT THE DEEPEST SECTION OF PANELS

BACKFILLED

B1. BACKFILLED MATERIAL (DRAINAGE GRAVEL FROM ø10 TO ø30mm =>(2"-1") NEEDS TO BE COMPLETED IN LAYERS OF A MAXIMUM 300mm (12") OF CLEAN SELF-COMPACTING FILL. ANY BACKFILL COMPACTION MUST BE DONE MANUALLY AND BEFORE THE FILLING OF THE POOL TO AVOID DEFORMATION AND/OR DAMAGE TO THE MYRTHA STRUCTURE. IF IT'S NECESSARY TO FILL THE POOL BEFORE THE BACKFILL OPERATIONS PLEASE CONTACT THE MYRTHA POOLS TECHNICAL DEPARTMENT. THE INSTALLER MUST BE NOTIFIED 48 HOURS IN ADVANCE OF BACKFILL OPERATIONS TO MONITOR THE PROCEDURE AND ENSURE THE COMPATIBILITY WITH THE MYRTHA STRUCTURE

CORRIDOR

C1. THE ACCESS TO THE CORRIDOR MUST BE PROVIDED FOR PERIODIC INSPECTIONS AND MAINTENANCE
C2. INSPECTION CORRIDORS TO BE VENTILATED TO PREVENT CONDENSATION AND CORROSIVE CONDITIONS

GUTTER

G1. BALANCE TANKS ARE TO BE VENTED ACCORDING TO LOCAL CODES TO AVOID VAPOURS IN THE INSPECTION CORRIDORS
G2. STRUCTURAL CERAMIC GUTTER TILE/CLASSIC PVC COPING ARE NOT INTENDED AS A WATERPROOF COMPONENT OF THE POOL

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Revision Schedule

No.	Date	Description

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number _
Issue
Date 12/04/12

GL01
PLAN AND SECTIONS

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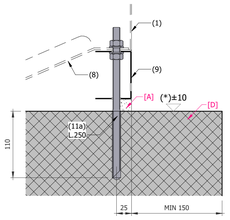
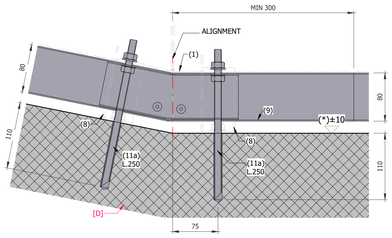
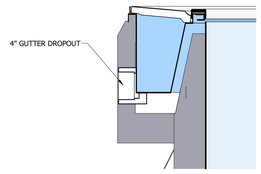
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH (25.4) LONG ON ORIGINAL DRAWINGS



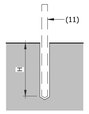
GD1A BASE FRAME DETAIL
01 Scale1 : 4



GD1A SLOPING BASE FRAME DETAIL
04 Scale1 : 4



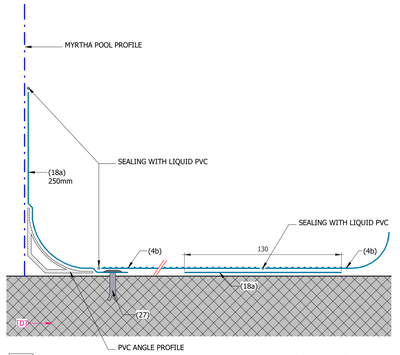
13 MYRTHA 4" GUTTER DROPOUT
Scale 1 : 10



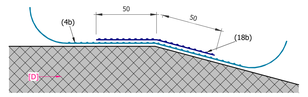
(11a) M12	H=110 mm
(11b) M16	H=125 mm
(11c) M20	H=170 mm
(11d) M24	H=210 mm

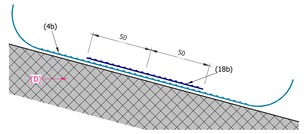
GENERAL EMBEDMENT DEPTHS ONLY, SITE SPECIFIC ANCHOR BOLT DESIGN IS PENDING

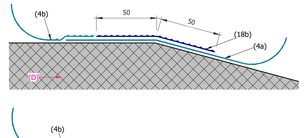
THREADED BAR EMBEDMENT DEPTH

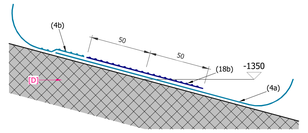


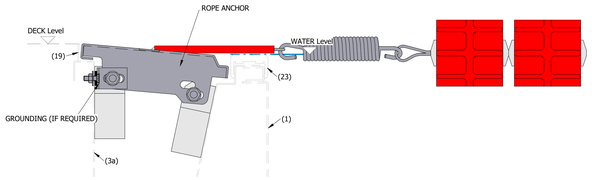
GD1D PVC MEMBRANE ANTISLIP DETAIL + PVC ANGLE PROFILE DETAIL + TRANSITION
14B Scale 1 : 2



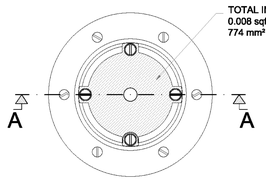


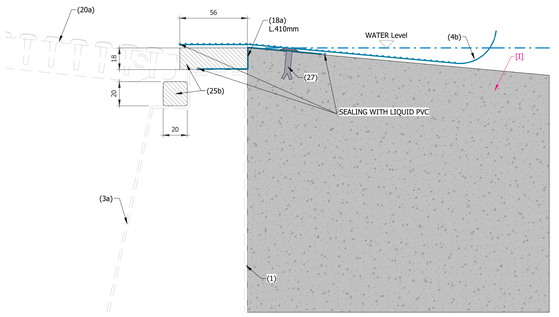


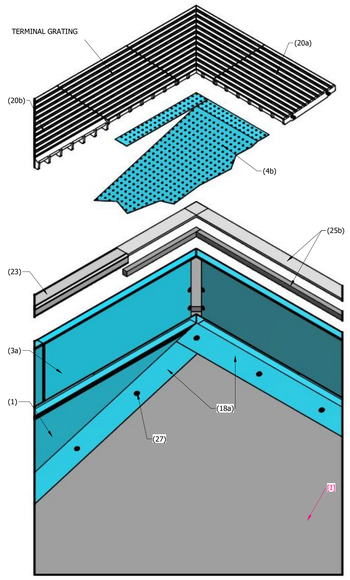




GD2B MY/REN DF 00 COMP - ROPE ANCHOR
06A Scale1 : 4







GD2C PVC HANDRAIL ANCHOR ∅1.5"
07A Scale1 : 4

12 MYRTHA FLOOR INLET Ø1-1/2"
Scale 1 : 25

GD1E PVC MEMBRANE ON CONCRETE BENCH DETAIL
02B Scale1 : 4

GD1E PVC MEMBRANE ON CONCRETE STAIRS DETAIL
01B Scale1 : 4

NOTE: IT IS HIGHLY RECOMMENDED TO PROVIDE SECONDARY DRAINS TO BE INSTALLED AT THE DEEPEST SECTIONS OF THE BOTTOM SLAB

GD5B DRAINAGE UNDER MEMBRANE WITHOUT GROUNDWATER
01D Scale 1 : 5

GD2A DF HG - TARGET USA 3'
02A Scale 1 : 10

GD2A LANE MARKING USA [3'] [5']
29B Scale 1 : 10

en. GENERAL NOTES

ALL TECHNOLOGIES

T1. TO ENSURE PROPER INSTALLATION, THE MYRTHA INSTALLATION CONTRACTOR SHALL COMPLY WITH ALL TOLERANCES SHOWN.
T2. ALL CONCRETE SURFACE TO RECEIVE PVC MEMBRANE/SKIN SHALL HAVE A SMOOTH FINE SAND PLASTER FINISH
T3. SECONDARY DRAINS SHALL BE INSTALLED TO ENSURE POSITIVE DRAINAGE
T4. ALL MYRTHA STRUCTURE SHALL BE BONDED AND GROUNDED PER LOCAL CODE. MYRTHA SHALL PROVIDE A HOLE IN EACH BUTTRESS FOR A GROUND CONNECTION PROVIDED BY THE POOL CONTRACTOR
T5. MYRTHA SHOP DRAWINGS ARE FOR FINAL APPROVAL FOR MATERIALS SUPPLIED BY MYRTHA ONLY. ITEMS NOT SUPPLIED BY MYRTHA ARE SHOWN FOR CONTEXT ONLY AND SHOULD BE FULLY COORDINATED WITH FINAL POOL DESIGN DRAWINGS
T6. ANY BUILDING WATERPROOFING THAT COMES IN CONTACT WITH PVC MEMBRANE MUST BE COMPATIBLE WITH PVC OR SHALL BE ISOLATED FROM THE PVC MEMBRANE
T7. THE ACCESSORIES INSTALLED ON THE DECK AROUND THE POOL DO NOT GUARANTEE WATERPROOFING, UNLESS TECHNICALLY SPECIFIED OTHERWISE

MYRTHA

M1. ALL CONCRETE DEPICTED IS FOR COORDINATION WITH POOL STRUCTURAL EOR AND STRUCTURAL EOR TO ESTABLISH MINIMUM REQUIREMENTS FOR INSTALLATION OF MYRTHA CHEMICAL ANCHORS. POOL CONTRACTOR SHALL COORDINATE ALL CONCRETE REINFORCING AND DIMENSIONAL REQUIREMENTS WITH GC AND STRUCTURAL EOR.
M2. ALL LOADS INDICATED ON THE WALL SECTIONS ARE APPLIED TO THE BUTTRESSES (EVERY 900mm [2' - 11 3/8"]). CRITICAL LOADING IS CONSISTENT WITH BACKFILLED STRUCTURES WITH POOL EMPTY
M3. STANDARD TOLERANCE LEVEL OF THE PERIMETER CONCRETE FOOTING IS 20mm (3/4") FROM THE LEVEL INDICATED IN THE SECTION. IF NECESSARY, COORDINATE WITH OTHER STRUCTURAL DRAWINGS.
M4. GROUTING UNDER BASE FRAME SHALL BE INSTALLED BY THE POOL CONTRACTOR

RENOVATION

R1. FOR RENOVATION PANELS LOCATED IN A COORIDOR CONDITION, THE GENERAL CONTRACTOR SHALL SUPPLY DRAINAGE AT THE DEEPEST SECTION OF PANELS

BACKFILLED

B1. BACKFILLED MATERIAL (DRAINAGE GRAVEL FROM ø10 TO ø30mm =~1/2"÷1") NEEDS TO BE COMPLETED IN LAYERS OF A MAXIMUM 300mm (12") OF CLEAN SELF-COMPACTING FILL. ANY BACKFILL COMPACTION MUST BE DONE MANUALLY AND BEFORE THE FILLING OF THE POOL TO AVOID DEFORMATION AND/OR DAMAGE TO THE MYRTHA STRUCTURE. IF IT'S NECESSARY TO FILL THE POOL BEFORE THE BACKFILL OPERATIONS PLEASE CONTACT THE MYRTHA POOLS TECHNICAL DEPARTMENT. THE INSTALLER MUST BE NOTIFIED 48 HOURS IN ADVANCE OF BACKFILL OPERATIONS TO MONITOR THE PROCEDURE AND ENSURE THE COMPATIBILITY WITH THE MYRTHA STRUCTURE

CORRIDOR

C1. THE ACCESS TO THE CORRIDOR MUST BE PROVIDED FOR PERIODIC INSPECTIONS AND MAINTENANCE
C2. INSPECTION CORRIDORS TO BE VENTILATED TO PREVENT CONDENSATION AND CORROSIVE CONDITIONS

GUTTER

G1. BALANCE TANKS ARE TO BE VENTED ACCORDING TO LOCAL CODES TO AVOID VAPORS IN THE INSPECTION CORRIDORS
G2. STRUCTURAL CERAMIC GUTTER TILE/CLASSIC PVC COPING ARE NOT INTENDED AS A WATERPROOF COMPONENT OF THE POOL

		LEGEND
		BY CONTRACTOR
ALL TECHNOLOGIES	A	GROUTING
	B	CONCRETE FOUNDATION PROVIDED BY GENERAL CONTRACTOR OR POOL CONTRACTOR. STRUCTURAL DESIGN BY BUILDING STRUCTURAL EOR. FOR POOL STRUCTURAL EOR, MINIMUM COMPRESSIVE STRENGTH SHALL BE 3500 PSI PER ASTM
	C	EXPANSION JOINT
CONCRETE	D	SLAB / WALL
	E	WATERPROOFING LAYER
	F	DECK DRAINAGE
BACKFILLED	G	BACKFILL LAID IN THE BACK OF THE MYRTHA STRUCTURE BY 300mm LAYERS, COMPACTED MANUALLY. TO BE EXECUTED AFTER THE ASSEMBLY OF POOL STRUCTURES AND FACILITIES. USE WASHED ROUNDED GRAVEL 10/30mm
ALL TECHNOLOGIES	H	GRAVEL
	I	CONCRETE
		IMPORTANT INFORMATION EXCLUDED WORKS: GENERAL BUILDING WORKS; WATERPROOFING AND SLAB DRAINAGE; PLASTIC SUPPORTS; GROUTING OF BASE FRAME
		*MINIMUM SIZES FOR THE FOUNDATION STABILITY FOR THIS SECTION, IT'S RESPONSIBILITY OF THE MAIN CONTRACTOR THE STATIC CALCULATIONS OF THE CONCRETE CURB. FOR DIFFERENT HEIGHTS OR TECHNOLOGIES REFER TO SPECIFIC SECTION.
		**MINIMUM DIMENSION FOR INSTALLATION OF CHEMICAL ANCHORS
		BY MYRTHA
ALL TECHNOLOGIES	1	MYRTHA PANEL
	2	BUTTRESS
	3a	MYRTHA GUTTER
	3b	UPPER FRAME
	4a	PVC MEMBRANE
	4b	PVC MEMBRANE ANTISLIP
	5	TEMPLATE
ONLY MYRTHA	6a	OFFSET PLATE 5mm
	6b	OFFSET PLATE 10mm
	7a	PANEL SUPPORT BRACKET
	7b	"TIRANTE" VERTICAL BRACKET + "L" PROFILE
	8	STRUT
	9	BASE FRAME
	10	GUTTER / UPPER FRAME SUPPORT
	11a	M12 CHEMICAL ANCHORS
	11b	M16 CHEMICAL ANCHORS
	11c	M20 CHEMICAL ANCHORS
	11d	M24 CHEMICAL ANCHORS
ONLY RENOVATION	12	OFFSET PLATE + M10 MECANICAL ANCHORS
	13	MYRTHA VERTICAL GUIDE
	14	POLYSTIRENE FOAM REINFORCEMENT
	15	6x50 WALL PLUG - 4,2x80 FIXING SCREW
CORRIDOR	16	HORIZONTAL RIBBING
	17	LINK PLATE MYRTHA
FINISHING	18a	PVC STRIP
	18b	CONTRAST STRIP
	19	"L" PVC PROFILE
	20a	GRATING
	20b	"HAND GRIP" GRATING
	21	FRONT TILE
	22	TOP TILE
	23	"CLASSIC" GUTTER COPING
	24	"STRUCTURAL" CERAMIC ELEMENT
	25a	TILE MOSAIC / GRES
	25b	PVC PROFILE FOR "ZERO ENTRY"
	26a	55x12 PVC PROFILE
	26b	40x8 PVC PROFILE
	26c	TILE SUPPORT (TWO EVERY 600mm)
	27	4,8x25 EXPANSION NAIL
	28a	SOFTWALK PVC PAD
	28b	SOFTWALK FOAM EVA

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Revision Schedule

No.	Date	Description

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number _
Issue
Date 12/14/17

GL02
POOL DETAILS

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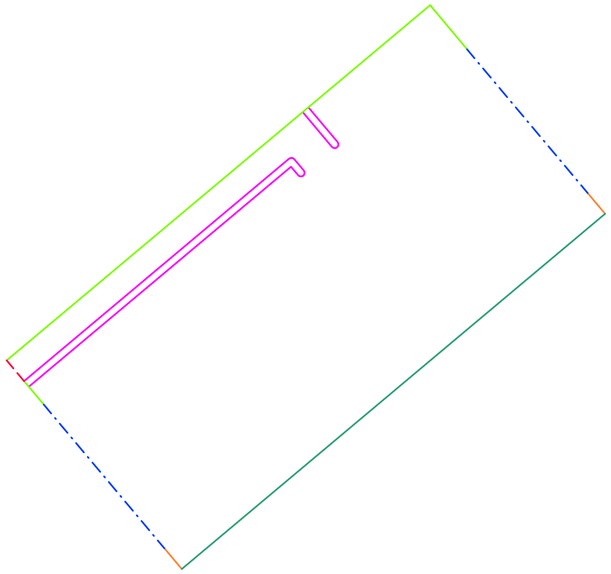
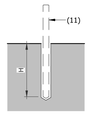


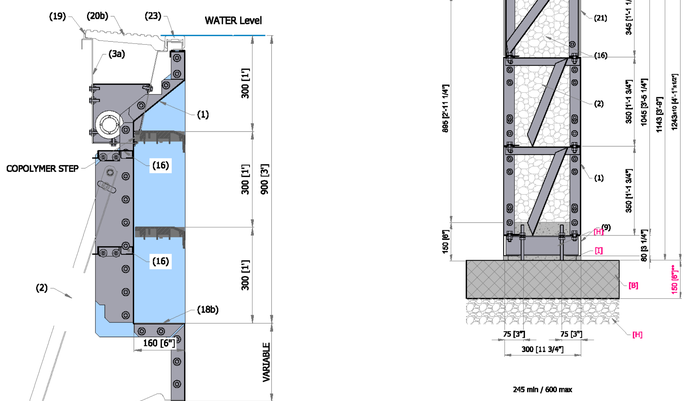
TECHNOLOGY PLAN
- S1- MODIFIED CLASSIC COMPETITION 3'-6"
- S2- MODIFIED CLASSIC COMPETITION 3'-6" WITH ZERO ENTRY
- S3- MODIFIED CLASSIC COMPETITION SLOPING FROM 3'-6" TO 4'-8"
- S4- MODIFIED CLASSIC COMPETITION SLOPING FROM 4'-8" TO 4'-7"
- S5- MODIFIED CLASSIC COMPETITION 4'-7"
- S6- CERAMIC SKIMMER FINGERWALL (1' WIDE)



(11a) M12	H=110 mm
(11b) M16	H=125 mm
(11c) M20	H=170 mm
(11d) M24	H=210 mm

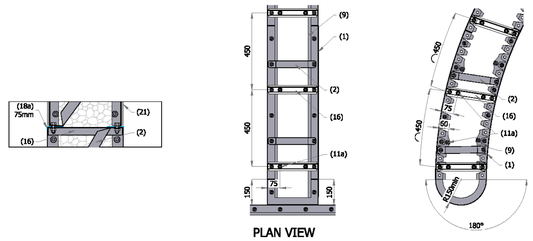
GENERAL EMBEDMENT DEPTHS ONLY, SITE SPECIFIC ANCHOR BOLT DESIGN IS PENDING

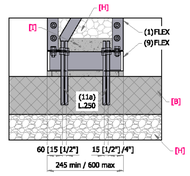
THREADED BAR EMBEDMENT DEPTH



STRAIGHT
Scale 1:10

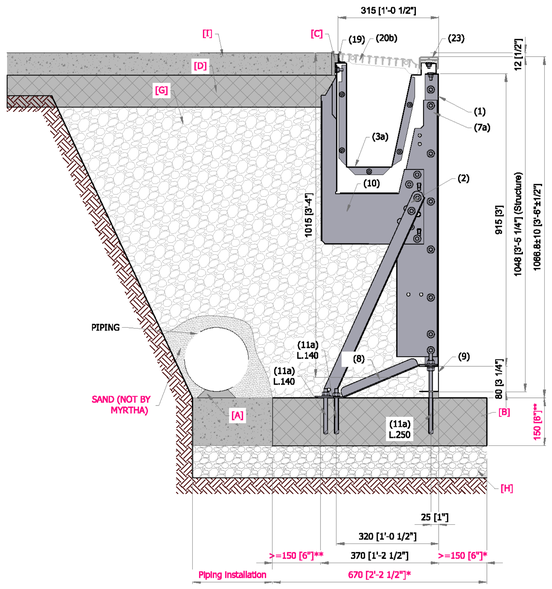
S6 CERAMIC SKIMMER FINGERWALL (1' WIDE)



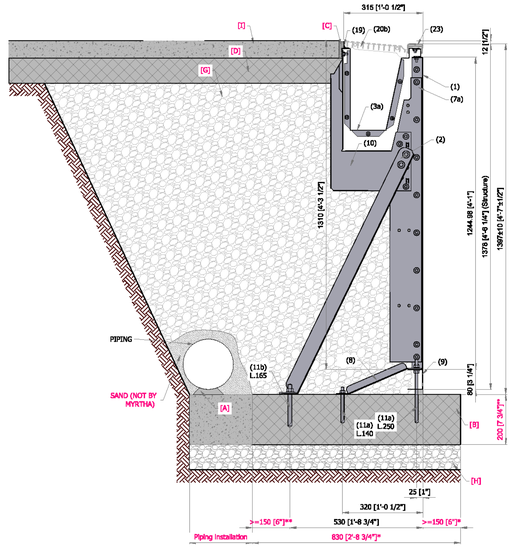


DETTAGLI FLEX
FLEX DETAILS
Scale 1:10

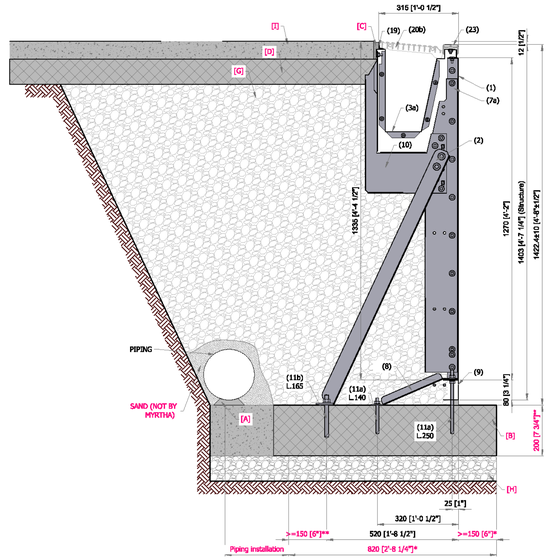
3 THREE STEP RECESSED LADDER



S1 MODIFIED CLASSIC COMPETITION 3'-6"



S5 MODIFIED CLASSIC COMPETITION 4'-7"



S3 MODIFIED CLASSIC COMPETITION SLOPING FROM 3'-6" TO 4'-8"

S4 MODIFIED CLASSIC COMPETITION SLOPING FROM 4'-8" TO 4'-7"
Scale 1:10

en. GENERAL NOTES

ALL TECHNOLOGIES
- **T1.** TO ENSURE PROPER INSTALLATION, THE MYRTHA INSTALLATION CONTRACTOR SHALL COMPLY WITH ALL TOLERANCES SHOWN.
- **T2.** ALL CONCRETE SURFACE TO RECEIVE PVC MEMBRANE/SKIN SHALL HAVE A SMOOTH FINE SAND PLASTER FINISH.
- **T3.** SECONDARY DRAINS SHALL BE INSTALLED TO ENSURE POSITIVE DRAINAGE.
- **T4.** ALL MYRTHA STRUCTURE SHALL BE BONDED AND GROUNDED PER LOCAL CODE. MYRTHA SHALL PROVIDE A HOLE IN EACH BUTTRESS FOR A GROUND CONNECTION PROVIDED BY THE POOL CONTRACTOR.
- **T5.** MYRTHA SHOP DRAWINGS ARE FOR FINAL APPROVAL FOR MATERIALS SUPPLIED MY MYRTHA ONLY. ITEMS NOT SUPPLIED BY MYRTHA ARE SHOWN FOR CONTEXT ONLY AND SHOULD BE FULLY COORDINATED WITH FINAL POOL DESIGN DRAWINGS.
- **T6.** ANY BUILDING WATERPROOFING THAT COMES IN CONTACT WITH PVC MEMBRANE MUST BE COMPATIBLE WITH PVC OR SHALL BE ISOLATED FROM THE PVC MEMBRANE.
- **T7.** THE ACCESSORIES INSTALLED ON THE DECK AROUND THE POOL DO NOT GUARANTEE WATERPROOFING, UNLESS TECHNICALLY SPECIFIED OTHERWISE.

MYRTHA
- **H1.** ALL CONCRETE DEPICTED IS FOR COORDINATION WITH POOL STRUCTURAL EOR AND STRUCTURAL EOR TO ESTABLISH MINIMUM REQUIREMENTS FOR INSTALLATION OF MYRTHA CHEMICAL ANCHORS. POOL CONTRACTOR SHALL COORDINATE ALL CONCRETE REINFORCING AND DIMENSIONAL REQUIREMENTS WITH GC AND STRUCTURAL EOR.
- **H2.** ALL LOADS INDICATED ON THE WALL SECTIONS ARE APPLIED TO THE BUTTRESSES (EVERY 900mm (2' - 11 3/8")). CRITICAL LOADING IS CONSISTENT WITH BACKFILLED STRUCTURES WITH POOL EMPTY.
- **H3.** STANDARD TOLERANCE LEVEL OF THE PERIMETER CONCRETE FOOTING IS 20mm (3/4") FROM THE LEVEL INDICATED IN THE SECTION. IF NECESSARY, COORDINATE WITH OTHER STRUCTURAL DRAWINGS.
- **H4.** GROUTING UNDER BASE FRAME SHALL BE INSTALLED BY THE POOL CONTRACTOR.

RENOVATION
- **R1.** FOR RENOVATION PANELS LOCATED IN A COORDOR CONDITION, THE GENERAL CONTRACTOR SHALL SUPPLY DRAINAGE AT THE DEEPEST SECTION OF PANELS

BACKFILLED
- **B1.** BACKFILLED MATERIAL (DRAINAGE GRAVEL FROM ø10 TO ø30mm =~1/2"÷1") NEEDS TO BE COMPLETED IN LAYERS OF A MAXIMUM 300mm (12") OF CLEAN SELF-COMPACTING FILL. ANY BACKFILL COMPACTION MUST BE DONE MANUALLY AND BEFORE THE FILLING OF THE POOL TO AVOID DEFORMATION AND/OR DAMAGE TO THE MYRTHA STRUCTURE. IF IT'S NECESSARY TO FILL THE POOL BEFORE THE BACKFILL OPERATIONS PLEASE CONTACT THE MYRTHA POOLS TECHNICAL DEPARTMENT. THE INSTALLER MUST BE NOTIFIED 48 HOURS IN ADVANCE OF BACKFILL OPERATIONS TO MONITOR THE PROCEDURE AND ENSURE THE COMPATIBILITY WITH THE MYRTHA STRUCTURE

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		BY CONTRACTOR
ALL TECHNOLOGIES	A	GROUTING
	B	CONCRETE FOUNDATION PROVIDED BY GENERAL CONTRACTOR OR POOL CONTRACTOR. STRUCTURAL DESIGN BY BUILDING STRUCTURAL EOR OR POOL STRUCTURAL EOR. MINIMUM COMPRESSIVE STRENGTH SHALL BE 3000 PSI PER ASTM
CORRIDOR	C	EXPANSION JOINT
	D	SLAB / WALL
BACKFILLED	E	WATERPROOFING LAYER
	F	DECK DRAINAGE
	G	BACKFILL LAID IN THE BACK OF THE MYRTHA STRUCTURE BY 300mm LAYERS COMPACTED MANUALLY. TO BE EXECUTED AFTER THE ASSEMBLY OF POOL STRUCTURES AND FACILITIES. USE WASHED ROUNDED GRAVEL 10/30mm
ALL TECHNOLOGIES	H	GRAVEL
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	5	TEMPLATE
ONLY MYRTHA	6a	OFFSET PLATE 5mm
	6b	OFFSET PLATE 10mm
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	7b	"TIRANTE" VERTICAL BRACKET + "L" PROFILE
	8	STRUT
	9	BASE FRAME
	10	GUTTER / UPPER FRAME SUPPORT
	11a	M12 CHEMICAL ANCHORS
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	25a	TILE MOSAIC / GRES
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	27	4,8x25 EXPANSION NAIL
	28a	SOFTWALK PVC PAD
	28b	SOFTWALK FOAM EVA

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Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number _
Issue
Date 12/14/17

GL03
TECHNOLOGY PLAN AND WALL SECTIONS

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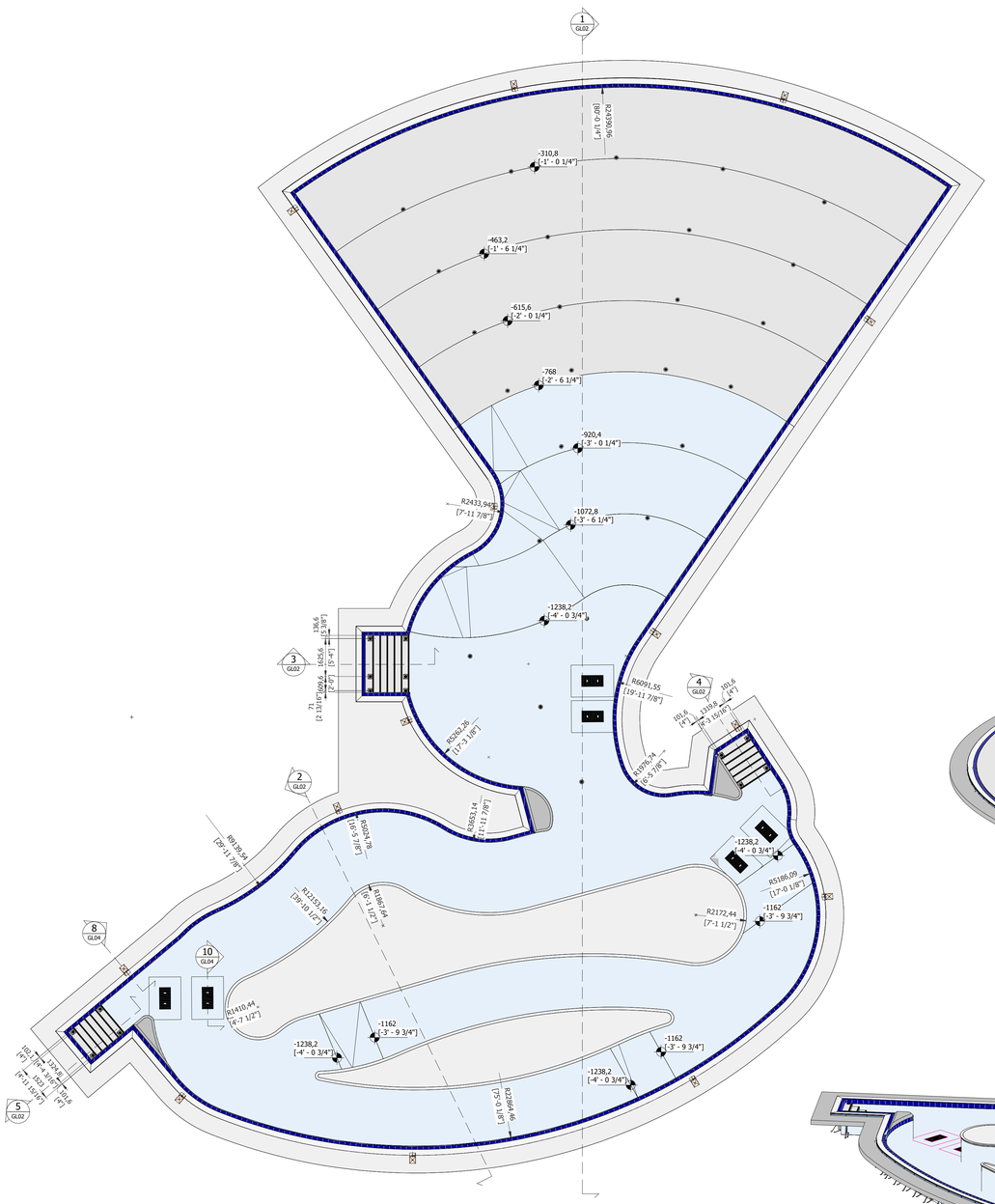
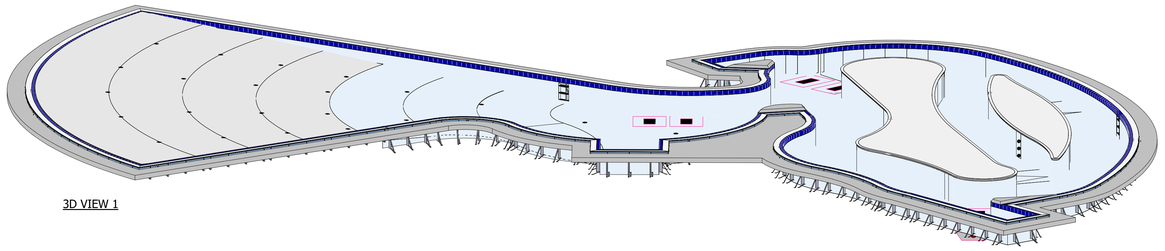
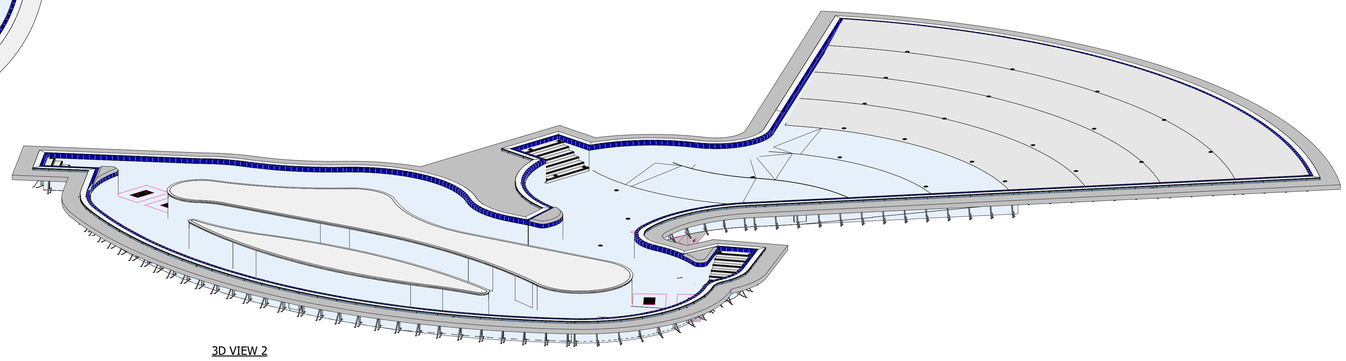




3D VIEW 1



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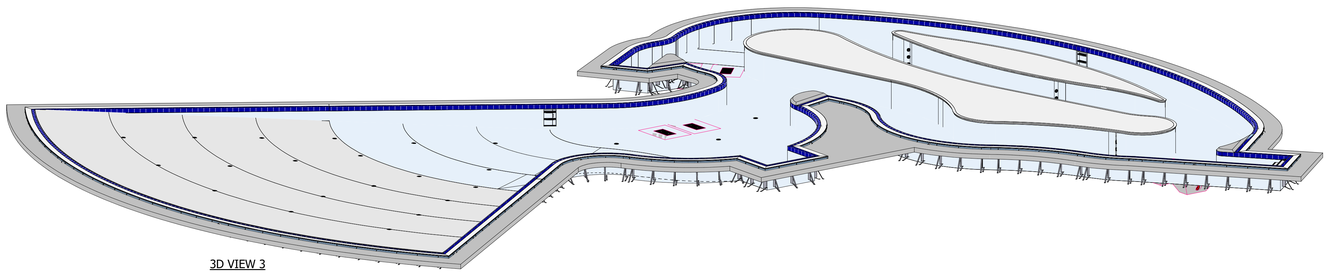

3D VIEW 3

		LEGEND
		BY CONTRACTOR
ALL TECHNOLOGIES	A	GROUTING
	B	CONCRETE FOUNDATION PROVIDED BY GENERAL CONTRACTOR OR POOL CONTRACTOR; STRUCTURAL DETAILS BY BUILDING STRUCTURAL EOR OR POOL STRUCTURAL EOR. CONCRETE MINIMUM ISSUE STRENGTH SHALL BE 3500 PSI PER ASTM
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ALL TECHNOLOGIES	H	GRAVEL
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	7a	PANEL SUPPORT BRACKET
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	8	STRUT
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	T2. ALL CONCRETE SURFACE TO RECEIVE PVC MEMBRANE/SKIN SHALL HAVE A SMOOTH FINE SAND PLASTER FINISH
	T3. SECONDARY DRAINS SHALL BE INSTALLED TO ENSURE POSITIVE DRAINAGE
	T4. ALL MYRTHA STRUCTURE SHALL BE BONDED AND GROUNDED PER LOCAL CODE. MYRTHA SHALL PROVIDE A HOLE IN EACH BUTTRESS FOR A GROUND CONNECTION PROVIDED BY THE POOL CONTRACTOR
	T5. MYRTHA SHOP DRAWINGS ARE FOR FINAL APPROVAL FOR MATERIALS SUPPLIED BY MYRTHA ONLY. ITEMS NOT SUPPLIED BY MYRTHA ARE SHOWN FOR CONTEXT ONLY AND SHOULD BE FULLY COORDINATED WITH FINAL POOL DESIGN DRAWINGS.
	T6. ANY BUILDING WATERPROOFING THAT COMES IN CONTACT WITH PVC MEMBRANE MUST BE COMPATIBLE WITH PVC OR SHALL BE ISOLATED FROM THE PVC MEMBRANE
	T7. THE ACCESSORIES INSTALLED ON THE DECK AROUND THE POOL DO NOT GUARANTEE WATERPROOFING, UNLESS TECHNICALLY SPECIFIED OTHERWISE
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	H3. STANDARD TOLERANCE LEVEL OF THE PERIMETER CONCRETE FOOTING IS 20mm (3/4") FROM THE LEVEL INDICATED IN THE SECTION. IF NECESSARY, COORDINATE WITH OTHER STRUCTURAL DRAWINGS.
	H4. GROUTING UNDER BASE FRAME SHALL BE INSTALLED BY THE POOL CONTRACTOR
RENOVATION	**R1.** FOR RENOVACTION PANELS LOCATED IN A COORIDOR CONDITION, THE GENERAL CONTRACTOR SHALL SUPPLY DRAINAGE AT THE DEEPEST SECTION OF PANELS
BACKFILLED	**B1.** BACKFILLED MATERIAL (DRAINAGE GRAVEL FROM ø10 TO ø30mm =~1/2"-1") NEEDS TO BE COMPLETED IN LAYERS OF A MAXIMUM 300mm (12") OF CLEAN SELF-COMPACTING FILL. ANY BACKFILL COMPACTION MUST BE DONE MANUALLY AND BEFORE THE FILLING OF THE POOL TO AVOID DEFORMATION AND/OR DAMAGE TO THE MYRTHA STRUCTURE. IF IT'S NECESSARY TO FILL THE POOL BEFORE THE BACKFILL OPERATIONS PLEASE CONTACT THE MYRTHA POOLS TECHNICAL DEPARTMENT. THE INSTALLER MUST BE NOTIFIED 48 HOURS IN ADVANCE OF BACKFILL OPERATIONS TO MONITOR THE PROCEDURE AND ENSURE THE COMPATIBILITY WITH THE MYRTHA STRUCTURE
CORRIDOR	**C1.** THE ACCESS TO THE CORRIDOR MUST BE PROVIDED FOR PERIODIC INSPECTIONS AND MAINTENANCE
	C2. INSPECTION CORRIDORS TO BE VENTILATED TO PREVENT CONDENSATION AND CORROSIVE CONDITIONS
GUTTER	**G1.** BALANCE TANKS ARE TO BE VENTED ACCORDING TO LOCAL CODES TO AVOID VAPOURS IN THE INSPECTION CORRIDORS
	G2. STRUCTURAL CERAMIC GUTTER TILE/CLASSIC PVC COPING ARE NOT INTENDED AS A WATERPROOF COMPONENT OF THE POOL

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Revision Schedule

No.	Date	Description

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number _
Issue
Date 12/04/12

GL01
PLAN AND 3D VIEWS

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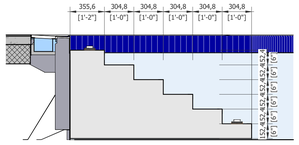
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG. ALTER DRAWING SCALE ACCORDINGLY

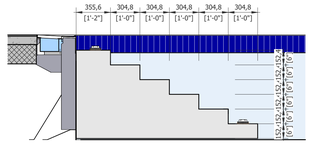
A B C D E

1 2 3 4 5

THE LINE SHOWN ABOVE IS EXACTLY 10 INCH LONG, IF IT RES DIFFERENTLY, CHANGE PLOTTING SCALE



3 SECTION 3
Scale 1 : 25



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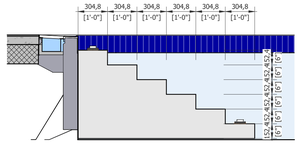

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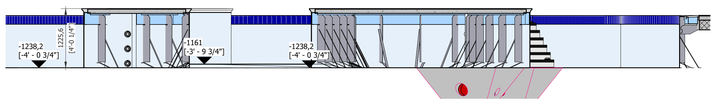

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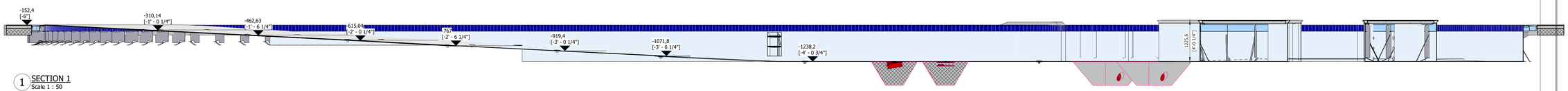

1 SECTION 1
Scale 1 : 50

		LEGEND
		BY CONTRACTOR
ALL TECHNOLOGIES	A	GROUTING
	B	CONCRETE FOUNDATION PROVIDED BY GENERAL CONTRACTOR OR POOL CONTRACTOR. STRUCTURAL DESIGN BY BUILDING STRUCTURAL EOR OR POOL CONTRACTOR'S STRUCTURAL EOR. CONCRETE STRENGTH SHALL BE 3500 PSI PER ASTM
CORROSION	C	EXPANSION JOINT
	D	SLAB / WALL
	E	WATERPROOFING LAYER
	F	DECK DRAINAGE
BACKFILLED	G	BACKFILL LAID IN THE BACK OF THE MYRTHA STRUCTURE BY 300mm LAYERS COMPACTED MANUALLY. TO BE EXECUTED AFTER THE ASSEMBLY OF POOL STRUCTURES AND FACILITIES. USE WASHED ROUNDED GRAVEL 10/30mm
ALL TECHNOLOGIES	H	GRAVEL
	I	CONCRETE
		IMPORTANT INFORMATION EXCLUDED WORKS: GENERAL BUILDING WORKS; WATERPROOFING AND SLAB DRAINAGE; ELASTIC JOINT; GROUTING OF BASE FRAME
		*MINIMUM SIZES FOR THE FOUNDATION STABILITY FOR THIS SECTION. IT'S RESPONSIBILITY OF THE POOL CONTRACTOR OR THE STATIC CALCULATIONS OF THE CONCRETE FOR COMPONENT HEIGHTS OR TECHNOLOGIES REFER TO SPECIFIC SECTION.
		**MINIMUM DIMENSION FOR INSTALLATION OF CHEMICAL ANCHORS
		BY MYRTHA
ALL TECHNOLOGIES	1	MYRTHA PANEL
	2	BUTTRESS
	3a	MYRTHA GUTTER
	3b	UPPER FRAME
	4a	PVC MEMBRANE
	4b	PVC MEMBRANE ANTISLIP
	5	TEMPLATE
CORE MYRTHA	6a	OFFSET PLATE 5mm
	6b	OFFSET PLATE 10mm
	7a	PANEL SUPPORT BRACKET
	7b	"TIRANTE" VERTICAL BRACKET + "L" PROFILE
	8	STRUT
	9	BASE FRAME
	10	GUTTER / UPPER FRAME SUPPORT
	11a	M12 CHEMICAL ANCHORS
	11b	M16 CHEMICAL ANCHORS
	11c	M20 CHEMICAL ANCHORS
	11d	M24 CHEMICAL ANCHORS
ONLY RENOVATION	12	OFFSET PLATE + M10 MECANICAL ANCHORS
	13	MYRTHA VERTICAL GUIDE
	14	POLYSTIRENE FOAM REINFORCEMENT
	15	6x30 WALL PLUG + 4,2x80 FIXING SCREW
CORE MYRTHA	16	HORIZONTAL RIBBING
	17	LINK PLATE MYRTHA
FINISHING	18a	PVC STRIP
	18b	CONTRAST STRIP
	19	"L" PVC PROFILE
	20a	GRATING
	20b	"HAND GRIP" GRATING
	21	FRONT TILE
	22	TOP TILE
	23	"CLASSIC" GUTTER COPING
	24	"STRUCTURAL" CERAMIC ELEMENT
	25a	TILE MOSAIC / GRES
	25b	PVC PROFILE FOR "ZERO ENTRY"
	26a	55x12 PVC PROFILE
	26b	40x8 PVC PROFILE
	26c	TILE SUPPORT (TWO EVERY 600mm)
	27	4,8x25 EXPANSION NAIL
	28a	SOFTWALK PVC PAD
	28b	SOFTWALK FOAM EVA

en. GENERAL NOTES

ALL TECHNOLOGIES	**T1.** TO ENSURE PROPER INSTALLATION, THE MYRTHA INSTALLATION CONTRACTOR SHALL COMPLY WITH ALL TOLERANCES SHOWN
	T2. ALL CONCRETE SURFACE TO RECEIVE PVC MEMBRANE/SKIN SHALL HAVE A SMOOTH FINE SAND PLASTER FINISH
	T3. SECONDARY DRAINS SHALL BE INSTALLED TO ENSURE POSITIVE DRAINAGE
	T4. ALL MYRTHA STRUCTURE SHALL BE BONDED AND GROUNDED PER LOCAL CODE. MYRTHA SHALL PROVIDE A HOLE IN EACH BUTTRESS FOR A GROUND CONNECTION PROVIDED BY THE POOL CONTRACTOR
	T5. MYRTHA SHOP DRAWINGS ARE FOR FINAL APPROVAL FOR MATERIALS SUPPLIED MY MYRTHA ONLY. ITEMS NOT SUPPLIED BY MYRTHA ARE SHOWN FOR CONTEXT ONLY AND SHOULD BE FULLY COORDINATED WITH FINAL POOL DESIGN DRAWINGS
	T6. ANY BUILDING WATERPROOFING THAT COMES IN CONTACT WITH PVC MEMBRANE MUST BE COMPATIBLE WITH PVC OR SHALL BE ISOLATED FROM THE PVC MEMBRANE
	T7. THE ACCESSORIES INSTALLED ON THE DECK AROUND THE POOL DO NOT GUARANTEE WATERPROOFING, UNLESS TECHNICALLY SPECIFIED OTHERWISE
MYRTHA	**M1.** ALL CONCRETE DEPICTED IS FOR COORDINATION WITH POOL STRUCTURAL EOR AND STRUCTURAL EOR TO ESTABLISH MINIMUM REQUIREMENTS FOR INSTALLATION OF MYRTHA CHEMICAL ANCHORS. POOL CONTRACTOR SHALL COORDINATE ALL CONCRETE REINFORCING AND DIMENSIONAL REQUIREMENTS WITH GC AND STRUCTURAL EOR
	M2. ALL LOADS INDICATED ON THE WALL SECTIONS ARE APPLIED TO THE BUTTRESSES (EVERY 900mm (3' - 11 3/8")). CRITICAL LOADING IS CONSISTENT WITH BACKFILLED STRUCTURES WITH POOL EMPTY
	M3. STANDARD TOLERANCE LEVEL OF THE PERIMETER CONCRETE FOOTING IS 20mm (3/4") FROM THE LEVEL INDICATED IN THE SECTION. IF NECESSARY, COORDINATE WITH OTHER STRUCTURAL DRAWINGS
	M4. GROUTING UNDER BASE FRAME SHALL BE INSTALLED BY THE POOL CONTRACTOR
RENOVATION	**R1.** FOR RENOVATION PANELS LOCATED IN A COORIDOR CONDITION, THE GENERAL CONTRACTOR SHALL SUPPLY DRAINAGE AT THE DEEPEST SECTION OF PANELS
BACKFILLED	**B1.** BACKFILLED MATERIAL (DRAINAGE GRAVEL FROM ø10 TO ø30mm =~1/2"÷1") NEEDS TO BE COMPLETED IN LAYERS OF A MAXIMUM 300mm (12") OF CLEAN SELF-COMPACTING FILL. ANY BACKFILL COMPACTION MUST BE DONE MANUALLY AND BEFORE THE FILLING OF THE POOL TO AVOID DEFORMATION AND/OR DAMAGE TO THE MYRTHA STRUCTURE. IF IT'S NECESSARY TO FILL THE POOL BEFORE THE BACKFILL OPERATIONS PLEASE CONTACT THE MYRTHA POOLS TECHNICAL DEPARTMENT. THE INSTALLER MUST BE NOTIFIED 48 HOURS IN ADVANCE OF BACKFILL OPERATIONS TO MONITOR THE PROCEDURE AND ENSURE THE COMPATIBILITY WITH THE MYRTHA STRUCTURE
CORROSION	**C1.** THE ACCESS TO THE CORRIDOR MUST BE PROVIDED FOR PERIODIC INSPECTIONS AND MAINTENANCE
	C2. INSPECTION CORRIDORS TO BE VENTILATED TO PREVENT CONDENSATION AND CORROSIVE CONDITIONS
GUTTER	**G1.** BALANCE TANKS ARE TO BE VENTED ACCORDING TO LOCAL CODES TO AVOID VAPOURS IN THE INSPECTION CORRIDORS
	G2. STRUCTURAL CERAMIC GUTTER TILE/CLASSIC PVC COPING ARE NOT INTENDED AS A WATERPROOF COMPONENT OF THE POOL

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Revision Schedule

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Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number _
Issue
Date 12/04/12

GL02
POOL SECTIONS

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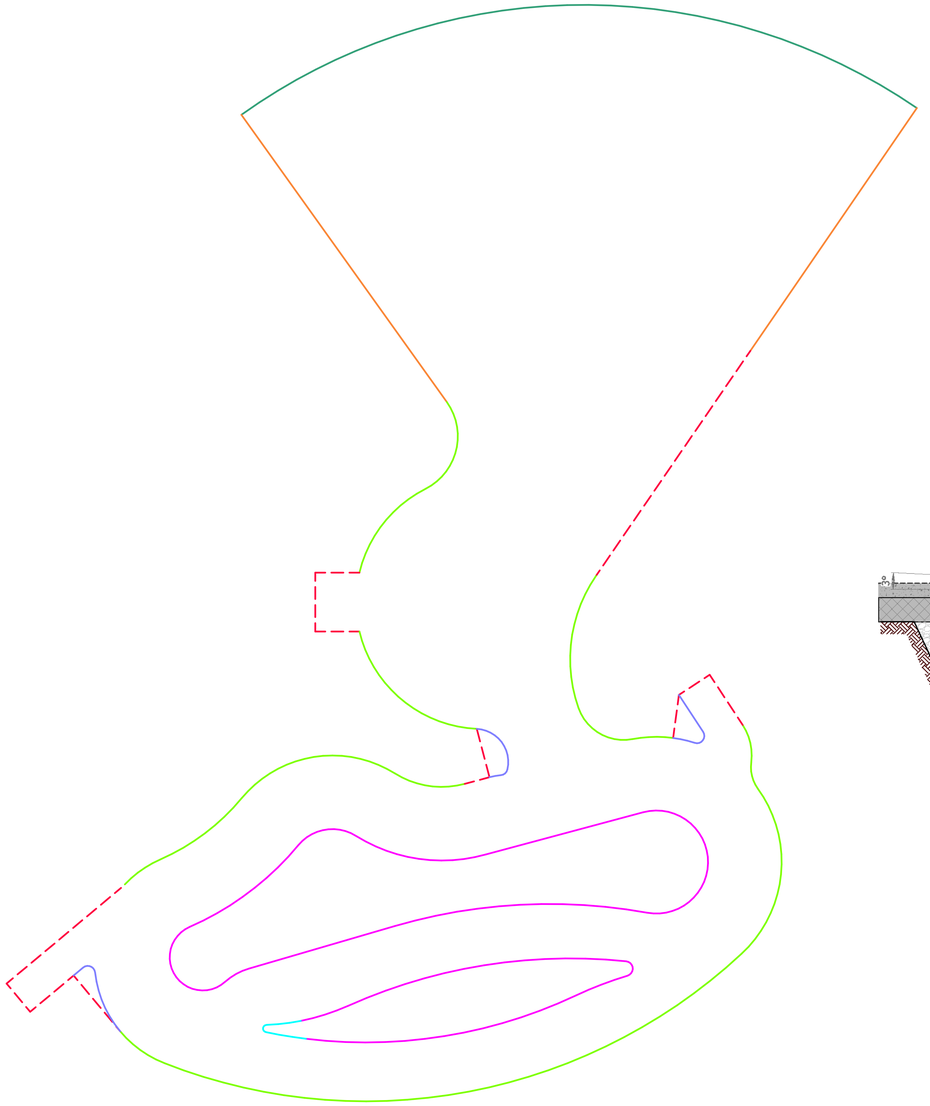
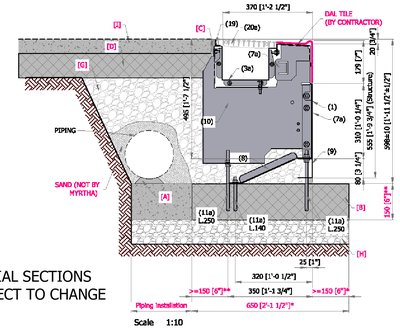
THE LINE SHOWN ABOVE IS EXACTLY ONE (1) INCH. (FULL SIZE) IF IT IS NOT, ADJUST PLOT SETTINGS



TECHNOLOGY PLAN

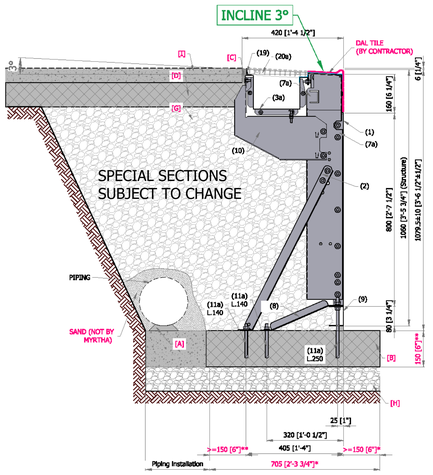
- **S1- SPECIAL SECTION FREEFORM PITCHED 3'-6"**
- **S2- SPECIAL SECTION STRAIGHT PITCHED 3'-6"**
- **S3- SPECIAL SECTION STRAIGHT PITCHED 1'-11"**
- **S4- SPECIAL SECTION FREEFORM PITCHED ZERO ENTRY**
- S5- FREEFORM SKIMMER CERAMIC
- S6- FREEFORM SKIMMER CERAMIC FINGERWALL
- S7- FREEFORM SKIMMER CERAMIC WITH BEVELED TOP



SPECIAL SECTIONS SUBJECT TO CHANGE

S3 SPECIAL SECTION FREEFORM PITCHED 1'-11"

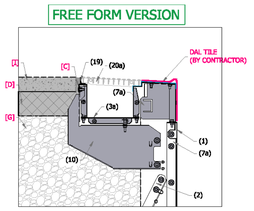
S4 SPECIAL SECTION STRAIGHT PITCHED 1'-11"
Scale 1:10

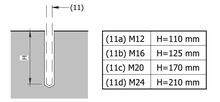


SPECIAL SECTIONS SUBJECT TO CHANGE

S1 SPECIAL SECTION FREEFORM PITCHED 3'-6"

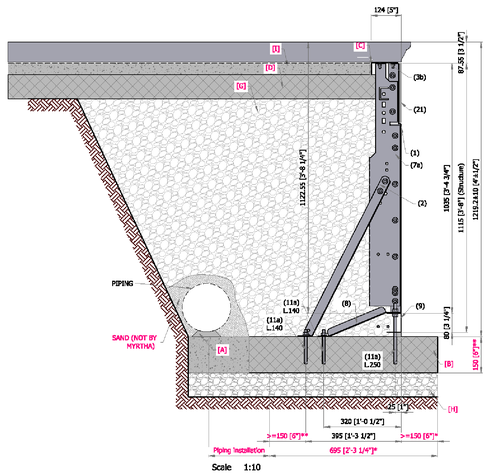
S2 SPECIAL SECTION STRAIGHT PITCHED 3'-6"
Scale 1:10



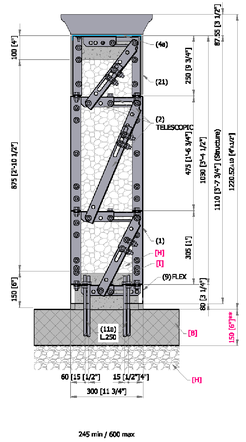


GENERAL EMBEDMENT DEPTHS ONLY, SITE SPECIFIC ANCHOR BOLT DESIGN IS PENDING

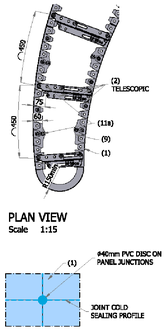
THREADED BAR EMBEDMENT DEPTH

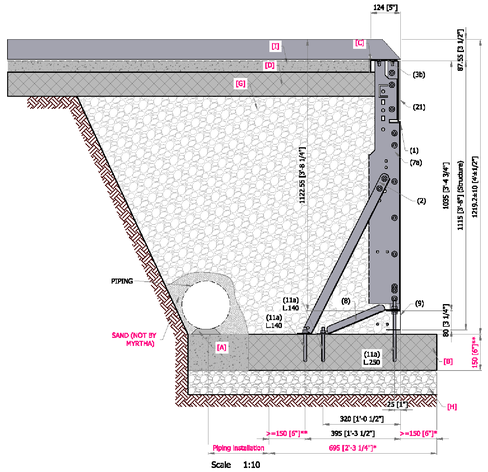


S5 FREEFORM SKIMMER CERAMIC



S6 FREEFORM SKIMMER CERAMIC FINGERWALL





S7 FREEFORM SKIMMER CERAMIC WITH BEVELED TOP

en. GENERAL NOTES

ALL TECHNOLOGIES

T1. TO ENSURE PROPER INSTALLATION, THE MYRTHA INSTALLATION CONTRACTOR SHALL COMPLY WITH ALL TOLERANCES SHOWN

T2. ALL CONCRETE SURFACE TO RECEIVE PVC MEMBRANE/SKIN SHALL HAVE A SMOOTH FINE SAND PLASTER FINISH

T3. SECONDARY DRAINS SHALL BE INSTALLED TO ENSURE POSITIVE DRAINAGE

T4. ALL MYRTHA STRUCTURE SHALL BE BONDED AND GROUNDED PER LOCAL CODE. MYRTHA SHALL PROVIDE A HOLE IN EACH BUTTRESS FOR A GROUND CONNECTION PROVIDED BY THE POOL CONTRACTOR.

T5. MYRTHA SHOP DRAWINGS ARE FOR FINAL APPROVAL FOR MATERIALS SUPPLIED MY MYRTHA ONLY. ITEMS NOT SUPPLIED BY MYRTHA ARE SHOWN FOR CONTEXT ONLY AND SHOULD BE FULLY COORDINATED WITH FINAL POOL DESIGN DRAWINGS.

T6. ANY BUILDING WATERPROOFING THAT COMES IN CONTACT WITH PVC MEMBRANE MUST BE COMPATIBLE WITH PVC OR SHALL BE ISOLATED FROM THE PVC MEMBRANE.

T7. THE ACCESSORIES INSTALLED ON THE DECK AROUND THE POOL DO NOT GUARANTEE WATERPROOFING, UNLESS TECHNICALLY SPECIFIED OTHERWISE

MYRTHA

M1. ALL CONCRETE DEPICTED IS FOR COORDINATION WITH POOL STRUCTURAL EOR AND STRUCTURAL EOR TO ESTABLISH MINIMUM REQUIREMENTS FOR INSTALLATION OF MYRTHA CHEMICAL ANCHORS. POOL CONTRACTOR SHALL COORDINATE ALL CONCRETE REINFORCING AND DIMENSIONAL REQUIREMENTS WITH GC AND STRUCTURAL EOR.

M2. ALL LOADS INDICATED ON THE WALL SECTIONS ARE APPLIED TO THE BUTTRESSES (EVERY 900mm (2' - 11 3/8")). CRITICAL LOADING IS CONSISTENT WITH BACKFILLED STRUCTURES WITH POOL EMPTY

M3. STANDARD TOLERANCE LEVEL OF THE PERIMETER CONCRETE FOOTING IS 20mm (3/4") FROM THE LEVEL INDICATED IN THE SECTION. IF NECESSARY, COORDINATE WITH OTHER STRUCTURAL DRAWINGS.

M4. GROUTING UNDER BASE FRAME SHALL BE INSTALLED BY THE POOL CONTRACTOR

RENOVATION

R1. FOR RENOVACTION PANELS LOCATED IN A COOKIDOR CONDITION, THE GENERAL CONTRACTOR SHALL SUPPLY DRAINAGE AT THE DEEPEST SECTION OF PANELS

BACKFILLED

B1. BACKFILLED MATERIAL (DRAINAGE GRAVEL FROM ø10 TO ø30mm =~(1/2"÷1") NEEDS TO BE COMPLETED IN LAYERS OF A MAXIMUM 300mm (12") OF CLEAN SELF-COMPACTING FILL. ANY BACKFILL COMPACTION MUST BE DONE MANUALLY AND BEFORE THE FILLING OF THE POOL TO AVOID DEFORMATION AND/OR DAMAGE TO THE MYRTHA STRUCTURE. IF IT'S NECESSARY TO FILL THE POOL BEFORE THE BACKFILL OPERATIONS PLEASE CONTACT THE MYRTHA POOLS TECHNICAL DEPARTMENT. THE INSTALLER MUST BE NOTIFIED 48 HOURS IN ADVANCE OF BACKFILL OPERATIONS TO MONITOR THE PROCEDURE AND ENSURE THE COMPATIBILITY WITH THE MYRTHA STRUCTURE

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C1. THE ACCESS TO THE CORRIDOR MUST BE PROVIDED FOR PERIODIC INSPECTIONS AND MAINTENANCE

C2. INSPECTION CORRIDORS TO BE VENTILATED TO PREVENT CONDENSATION AND CORROSIVE CONDITIONS

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G1. BALANCE TANKS ARE TO BE VENTED ACCORDING TO LOCAL CODES TO AVOID VAPOURS IN THE INSPECTION CORRIDORS.

G2. STRUCTURAL CERAMIC GUTTER TILE/CLASSIC PVC COPING ARE NOT INTENDED AS A WATERPROOF COMPONENT OF THE POOL

		LEGEND
		BY CONTRACTOR
ALL TECHNOLOGIES	A	GROUTING
	B	CONCRETE FOUNDATION PROVIDED BY GENERAL CONTRACTOR OR POOL CONTRACTOR. STRUCTURAL ENGINEER OF RECORD (SER) OR EOR OR POOL STRUCTURAL EOR. MINIMUM COMPRESSIVE STRENGTH SHALL BE 3500 PSI PER ASTM
	C	EXPANSION JOINT
CORRIDOR	D	SLAB / WALL
	E	WATERPROOFING LAYER
	F	DECK DRAINAGE
BACKFILLED	G	BACKFILL LAID IN THE BACK OF THE MYRTHA STRUCTURE BY 300mm LAYERS COMPACTED MANUALLY. TO BE EXECUTED AFTER THE ASSEMBLY OF POOL STRUCTURES AND FACILITIES. USE WASHED ROUNDED GRAVEL 10/30mm
	H	GRAVEL
ALL TECHNOLOGIES	I	CONCRETE
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		*MINIMUM SIZES FOR THE FOUNDATION STABILITY FOR THIS SECTION, IT'S RESPONSIBILITY OF THE MAIN CONTRACTOR THE STATIC CALCULATIONS OF THE CONCRETE CURB. FOR DIFFERENT HEIGHTS OR TECHNOLOGIES REFER TO SPECIFIC SECTION.
		**MINIMUM DIMENSION FOR INSTALLATION OF CHEMICAL ANCHORS
		BY MYRTHA
ALL TECHNOLOGIES	1	MYRTHA PANEL
	2	BUTTRESS
	3a	MYRTHA GUTTER
	3b	UPPER FRAME
	4a	PVC MEMBRANE
	4b	PVC MEMBRANE ANTISLIP
	5	TEMPLATE
MYRTHA	6a	OFFSET PLATE 5mm
	6b	OFFSET PLATE 10mm
	7a	PANEL SUPPORT BRACKET
	7b	"TIRANTE" VERTICAL BRACKET + "L" PROFILE
	8	STRUT
	9	BASE FRAME
	10	GUTTER / UPPER FRAME SUPPORT
	11a	M12 CHEMICAL ANCHORS
	11b	M16 CHEMICAL ANCHORS
	11c	M20 CHEMICAL ANCHORS
	11d	M24 CHEMICAL ANCHORS
RENOVACTION	12	OFFSET PLATE + M10 MECANICAL ANCHORS
	13	MYRTHA VERTICAL GUIDE
	14	POLYSTIRENE FOAM REINFORCEMENT
CORRIDOR	15	6x50 WALL PLUG - 4.2x80 FIXING SCREW
	16	HORIZONTAL RIBBING
	17	LINK PLATE MYRTHA
FINISHING	18a	PVC STRIP
	18b	CONTRAST STRIP
	19	"L" PVC PROFILE
	20a	GRATING
	20b	"HAND GRIP" GRATING
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Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

Project Number _
Issue
Date 12/14/17

GL03
TECHNOLOGY PLAN AND WALL SECTIONS

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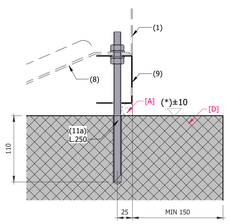
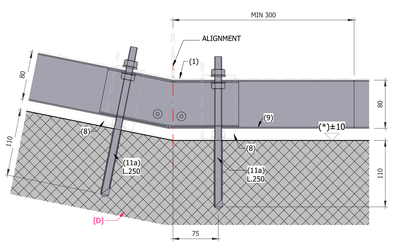
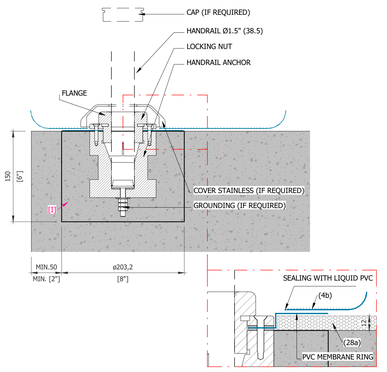
THE LINE SHOWN ABOVE IS EXACTLY 100mm LONG. IF IT'S NOT, PRINT AT THE CORRECT SCALE



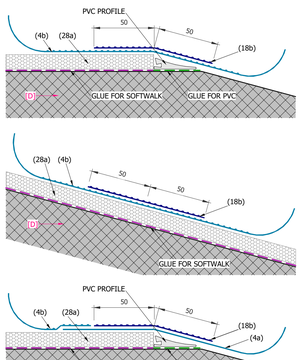
GD1A BASE FRAME DETAIL
01 Scale1 : 4

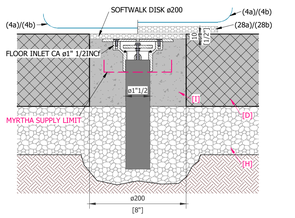


GD1A SLOPING BASE FRAME DETAIL
04 Scale1 : 4



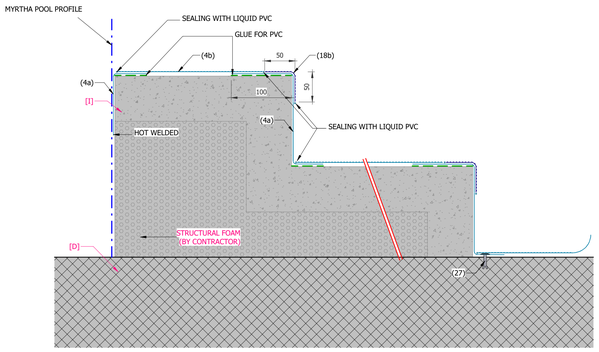
GD2C PVC HANDRAIL ANCHOR Ø1.5" (SOFTWALK PAD)
07C Scale1 : 4



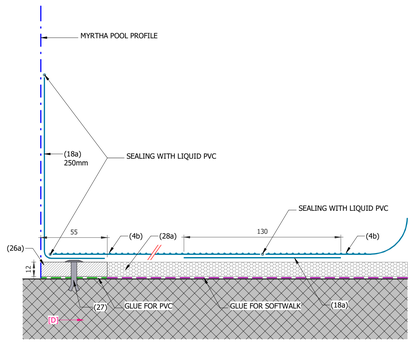


NOTE: IT IS HIGHLY RECOMMENDED TO PROVIDE SECONDARY DRAINS TO BE INSTALLED AT THE DEEPEST SECTIONS OF THE BOTTOM SLAB

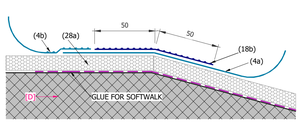
GD5B DRAINAGE UNDER MEMBRANE WITHOUT GROUNDWATER
01D Scale 1 : 5

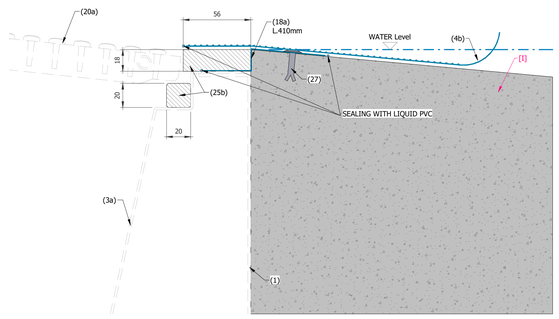


GD1E PVC MEMBRANE ON CONCRETE STAIRS DETAIL
01B Scale1 : 4

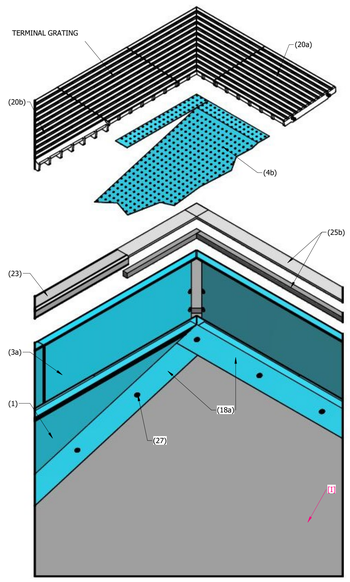


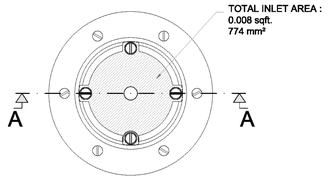
GD1D PVC MEMBRANE ANTISLIP + SOFTWALK PVC PAD DETAIL + TRANSITION
11B Scale 1 : 2



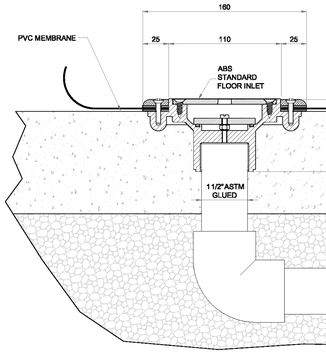


GD1H ZERO ENTRY DF 00 HG
04 Scale 1 : 2

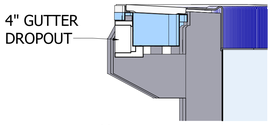


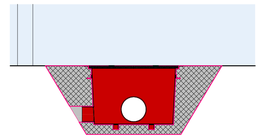


8 MYRTHA GUTTER DROPOUT
Scale 1 : 10



9 MYRTHA FLOOR INLET Ø1-1/2"
Scale 1 : 25





10 DALDORADO DRAIN
Scale 1 : 25

en. GENERAL NOTES

ALL TECHNOLOGIES

T1. TO ENSURE PROPER INSTALLATION, THE MYRTHA INSTALLATION CONTRACTOR SHALL COMPLY WITH ALL TOLERANCES SHOWN.

T2. ALL CONCRETE SURFACE TO RECEIVE PVC MEMBRANE/SKIN SHALL HAVE A SMOOTH FINE SAND PLASTER FINISH.

T3. SECONDARY DRAINS SHALL BE INSTALLED TO ENSURE POSITIVE DRAINAGE

T4. ALL MYRTHA STRUCTURE SHALL BE BONDED AND GROUNDED PER LOCAL CODE. MYRTHA SHALL PROVIDE A HOLE IN EACH BUTTRESS FOR A GROUND CONNECTION PROVIDED BY THE POOL CONTRACTOR.

T5. MYRTHA SHOP DRAWINGS ARE FOR FINAL APPROVAL FOR MATERIALS SUPPLIED BY MYRTHA ONLY. ITEMS NOT SUPPLIED BY MYRTHA ARE SHOWN FOR CONTEXT ONLY AND SHOULD BE FULLY COORDINATED WITH FINAL POOL DESIGN DRAWINGS.

T6. ANY BUILDING WATERPROOFING THAT COMES IN CONTACT WITH PVC MEMBRANE MUST BE COMPATIBLE WITH PVC OR SHALL BE ISOLATED FROM THE PVC MEMBRANE.

T7. THE ACCESSORIES INSTALLED ON THE DECK AROUND THE POOL DO NOT GUARANTEE WATERPROOFING, UNLESS TECHNICALLY SPECIFIED OTHERWISE.

MYRTHA

H1. ALL CONCRETE DEPICTED IS FOR COORDINATION WITH POOL STRUCTURAL EOR AND STRUCTURAL EOR TO ESTABLISH MINIMUM REQUIREMENTS FOR INSTALLATION OF MYRTHA CHEMICAL ANCHORS. POOL CONTRACTOR SHALL COORDINATE ALL CONCRETE REINFORCING AND DIMENSIONAL REQUIREMENTS WITH GC AND STRUCTURAL EOR.

H2. ALL LOADS INDICATED ON THE WALL SECTIONS ARE APPLIED TO THE BUTTRESSES (EVERY 900mm (2' - 11 3/8")). CRITICAL LOADING IS CONSISTENT WITH BACKFILLED STRUCTURES WITH POOL EMPTY.

H3. STANDARD TOLERANCE LEVEL OF THE PERIMETER CONCRETE FOOTING IS 20mm (3/4") FROM THE LEVEL INDICATED IN THE SECTION. IF NECESSARY, COORDINATE WITH OTHER STRUCTURAL DRAWINGS.

H4. GROUTING UNDER BASE FRAME SHALL BE INSTALLED BY THE POOL CONTRACTOR.

RENOVATION

R1. FOR RENOVACTION PANELS LOCATED IN A CORRIDOR CONDITION, THE GENERAL CONTRACTOR SHALL SUPPLY DRAINAGE AT THE DEEPEST SECTION OF PANELS

BACKFILLED

B1. BACKFILLED MATERIAL (DRAINAGE GRAVEL FROM ø10 TO ø30mm =~1/2"÷1") NEEDS TO BE COMPLETED IN LAYERS OF A MAXIMUM 300mm (12") OF CLEAN SELF-COMPACTING FILL. ANY BACKFILL COMPACTION MUST BE DONE MANUALLY AND BEFORE THE FILLING OF THE POOL TO AVOID DEFORMATION AND/OR DAMAGE TO THE MYRTHA STRUCTURE. IF IT'S NECESSARY TO FILL THE POOL BEFORE THE BACKFILL OPERATIONS PLEASE CONTACT THE MYRTHA POOLS TECHNICAL DEPARTMENT. THE INSTALLER MUST BE NOTIFIED 48 HOURS IN ADVANCE OF BACKFILL OPERATIONS TO MONITOR THE PROCEDURE AND ENSURE THE COMPATIBILITY WITH THE MYRTHA STRUCTURE.

CORRIDOR

C1. THE ACCESS TO THE CORRIDOR MUST BE PROVIDED FOR PERIODIC INSPECTIONS AND MAINTENANCE.

C2. INSPECTION CORRIDORS TO BE VENTILATED TO PREVENT CONDENSATION AND CORROSIVE CONDITIONS.

GUTTER

G1. BALANCE TANKS ARE TO BE VENTED ACCORDING TO LOCAL CODES TO AVOID VAPORS IN THE INSPECTION CORRIDORS.

G2. STRUCTURAL CERAMIC GUTTER TILE/CLASSIC PVC COPING ARE NOT INTENDED AS A WATERPROOF COMPONENT OF THE POOL.

		LEGEND
		BY CONTRACTOR
ALL TECHNOLOGIES	A	GROUTING
	B	CONCRETE FOUNDATION PROVIDED BY GENERAL CONTRACTOR OR POOL CONTRACTOR. STRUCTURAL CONCRETE DESIGN BY STRUCTURAL EOR OR POOL STRUCTURAL EOR. MINIMUM COMPRESSIVE STRENGTH SHALL BE 3500 PSI PER ASTM
CORRIDOR	C	EXPANSION JOINT
	D	SLAB / WALL
	E	WATERPROOFING LAYER
	F	DECK DRAINAGE
BACKFILLED	G	BACKFILL LAID ON THE BACK OF THE MYRTHA STRUCTURE BY 300mm LAYERS COMPACTED MANUALLY. TO BE EXECUTED AFTER THE ASSEMBLY OF POOL STRUCTURES AND FACILITIES. USE WASHED ROUNDED GRAVEL 10/30mm
ALL TECHNOLOGIES	H	GRAVEL
	I	CONCRETE
		IMPORTANT INFORMATION EXCLUDED WORKS: GENERAL BUILDING WORKS; WATERPROOFING AND SLAB DRAINAGE; ELASTIC JOINT; GROUTING OF BASE FRAME *MINIMUM SIZES FOR THE FOUNDATION STABILITY FOR THIS SECTION, IT'S RESPONSIBILITY OF THE MAIN CONTRACTOR THE STATIC CALCULATIONS OF THE CONCRETE CURB. FOR DIFFERENT HEIGHTS OR TECHNOLOGIES REFER TO SPECIFIC SECTION. **MINIMUM DIMENSION FOR INSTALLATION OF CHEMICAL ANCHORS
		BY MYRTHA
ALL TECHNOLOGIES	1	MYRTHA PANEL
	2	BUTTRESS
	3a	MYRTHA GUTTER
	3b	UPPER FRAME
	4a	PVC MEMBRANE
	4b	PVC MEMBRANE ANTISLIP
	5	TEMPLATE
ONLY MYRTHA	6a	OFFSET PLATE 5mm
	6b	OFFSET PLATE 10mm
	7a	PANEL SUPPORT BRACKET
	7b	"TIRANTE" VERTICAL BRACKET + "L" PROFILE
	8	STRUT
	9	BASE FRAME
	10	GUTTER / UPPER FRAME SUPPORT
	11a	M12 CHEMICAL ANCHORS
	11b	M16 CHEMICAL ANCHORS
	11c	M20 CHEMICAL ANCHORS
	11d	M24 CHEMICAL ANCHORS
ONLY RENOVACTION	12	OFFSET PLATE + M10 MECANICAL ANCHORS
	13	MYRTHA VERTICAL GUIDE
	14	POLYSTIRENE FOAM REINFORCEMENT
	15	6x50 WALL PLUG + 4,2x90 FIXING SCREW
CORRIDOR	16	HORIZONTAL RIBBING
	17	LINK PLATE MYRTHA
	18a	PVC STRIP
	18b	CONTRAST STRIP
	19	"L" PVC PROFILE
	20a	GRATING
	20b	"HAND GRIP" GRATING
	21	FRONT TILE
	22	TOP TILE
FINISHING	23	"CLASSIC" GUTTER COPING
	24	"STRUCTURAL" CERAMIC ELEMENT
	25a	TILE MOSAIC / GRES
	25b	PVC PROFILE FOR "ZERO ENTRY"
	26a	55x12 PVC PROFILE
	26b	40x8 PVC PROFILE
	26c	TILE SUPPORT (TWO EVERY 600mm)
	27	4,8x25 EXPANSION NAIL
	28a	SOFTWALK PVC PAD
	28b	SOFTWALK FOAM EVA

BOTTOM ACCESSORIES

DET. N°	DESCRIPTION	Co.
	GEYSER ø50	25
03/GL03	MYRTHA BY DALDORADO DRAIN, 18"x36", output Ø_"	6

FINISHED POOL ACCESSORIES

DET. N°	DESCRIPTION	Co.
GD2C/07A	PVC ANCHOR FOR HANDRAIL ø1,5"	14

GUTTER/UPPER FRAME ACCESSORIES

DET. N°	DESCRIPTION	Co.
	GUTTER DRAIN ø4"	14

PANEL ACCESSORIES

DET. N°	DESCRIPTION	Co.
	<varies>	29

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Revision Schedule

No.	Date	Description

Key Plan

CHICO AQUATIC AND RECREATION FACILITY
CHICO AREA RECREATION & PARK DISTRICT

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GL04
POOL DETAILS

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