



SWSD Rescue Junior San Diego, CA

Package 1
ISSUE FOR BID/ ISSUE FOR PERMIT

VOLUME 1 OF 1
PGAV Project Number: 64117-00
Issue Date: FEBRUARY 01, 2023

Sea World LLC
d/b/a SeaWorld San Diego
500 SeaWorld Drive; San Diego, CA 92109-7993

MEP
EXP
330 N Brand Blvd Ste 950
Glendale, CA 91203
818-539-1110

Structural Engineering
MLA
1424 Fourth Ave Ste 415
Seattle, WA 98101
206-264-2727

Architects / Destination Consultants:

PGAV
DESTINATIONS
PECKHAM GUYTON ALBERS & VIETS, INC.
200 North Broadway, Suite 1000, St. Louis, MO 63102
(314) 231-7318 WWW.PGAV.COM

1. ELEVATIONS SHOWN ARE BASED ON A SURVEY OF EXISTING CONDITIONS

- SEA PROJECTS ADDITIONAL GENERAL NOTES

- CALIFORNIA PROJECTS ADDITIONAL GENERAL NOTES

- CALIFORNIA PROJECT BUILDING DEPARTMENT NOTES – REFER TO SWSD MASTER

CALIFORNIA PROJECT FIRE DEPARTMENT NOTES - REFER TO SWSD MAP

[illegible]

CALIFORNIA PROJECT CALGREEN NOTES – REFER TO SWSD MASTER
EDITOR: INCLUDE CALGREEN MANDATORY MEASURES CHECKLIST W

1. ELECTRICAL, INCLUDING COMMUNICATIONS (CABLE AND CONDUIT), PLUMBING, AND ENGINEERING AND WORK SHALL BE PERFORMED ON A DESIGN-BUILD BASIS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALTERED WORK AND ITS IMPACT ON THE EXISTING SYSTEMS.

2. GENERAL CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE OF THE WORK WITH APPLICABLE BUILDING CODES.

3. IF REQUIRED TO OBTAIN A BUILDING PERMIT, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE SIGNED AND SEALED DOCUMENTS PREPARED BY QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION AND LICENSED BY THE AUTHORITY HAVING JURISDICTION. INCLUDE A LISTING OF CODES, DESIGN LOADS, AND OTHER FACTORS USED IN PERFORMING THESE SERVICES.

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Theming Design Intent:
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**SWSD Rescue
Junior**
San Diego, CA

Package 1

Issue for Bid/Issue for Permit

DRAWING INDEX

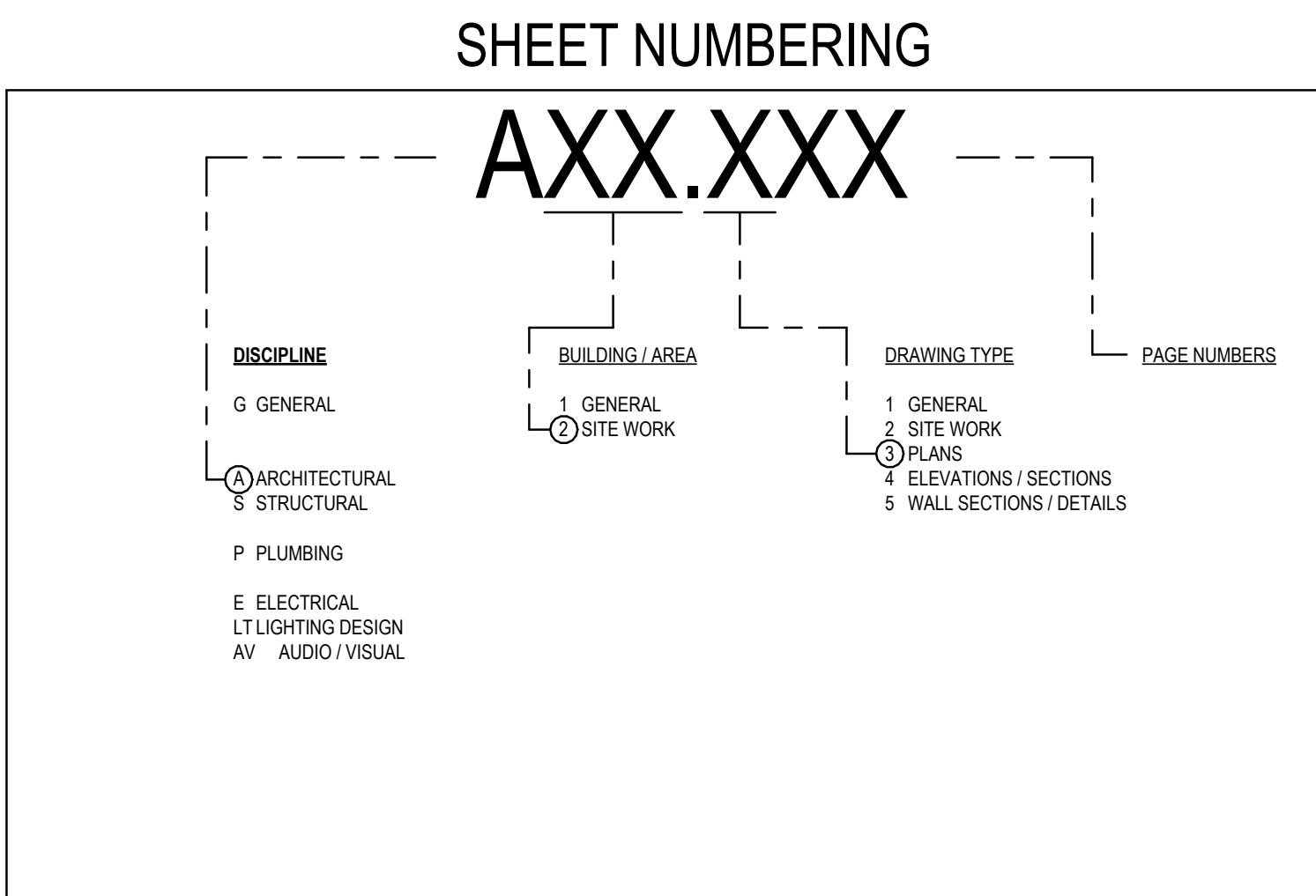
DATE FEBRUARY 01, 2022

DR	CK
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BCD	JMSI
PGAY	CLIENT

84117-00	SEA
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G01.102



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Keynote List

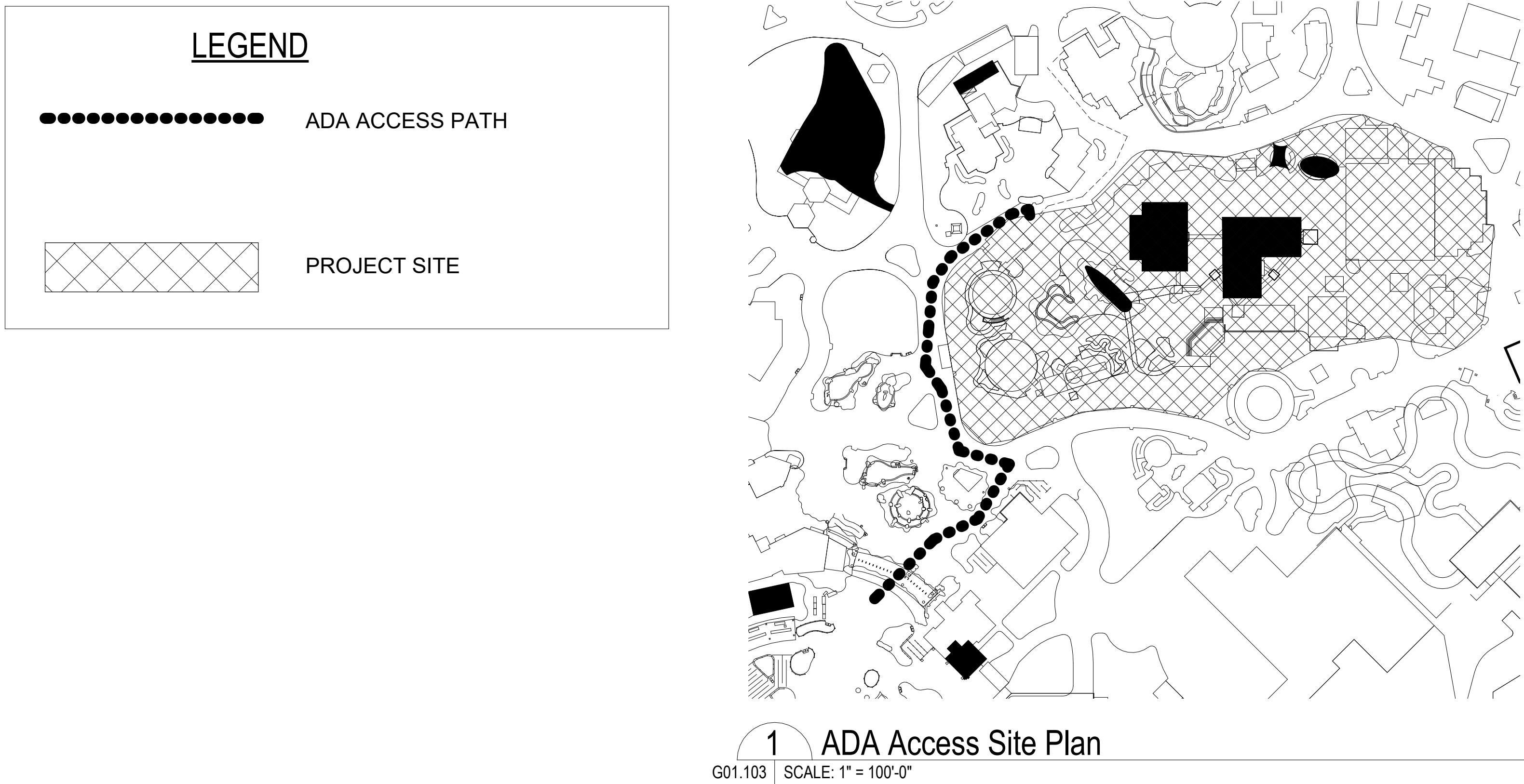
PCAV
DESTINATIONS
 PECKHAM GUYTON AUBERS & VETS, INC.
 200 North Brookshire, Suite 1000, St. Louis, MO 63102
 (314) 231-7318
WWW.PCAV.COM

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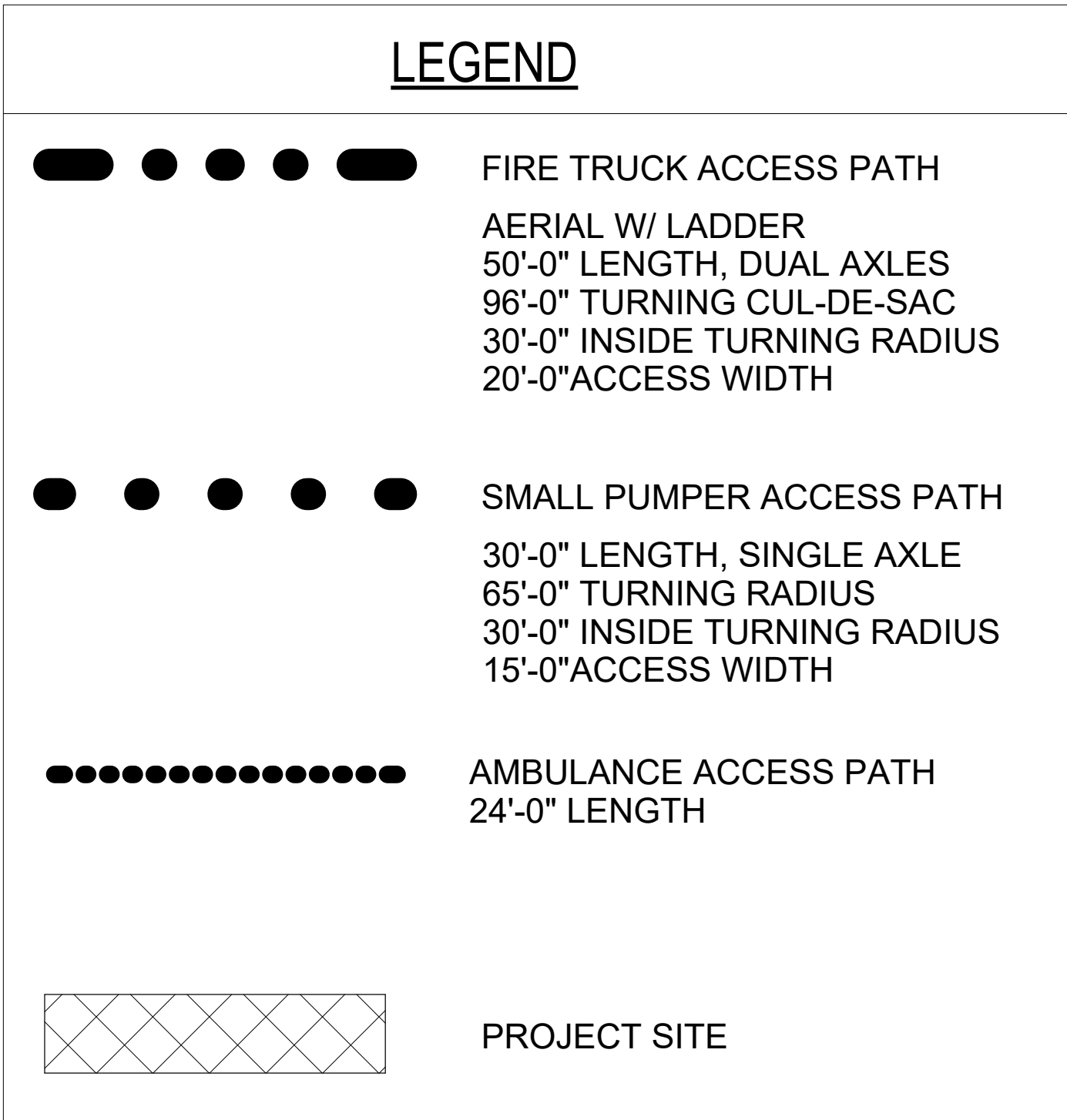
CALIFORNIA BUILDING CODE - 2019
CALIFORNIA MECHANICAL CODE - 2019
CALIFORNIA PLUMBING CODE - 2019
CALIFORNIA ELECTRICAL CODE - 2019
CALIFORNIA FIRE CODE - 2019
CALIFORNIA ENERGY CODE - 2019
CALIFORNIA EXISTING BUILDING CODE - 2019
NFPA 13 - 2016
NFPA 54 NATIONAL FUEL GAS CODE - 2015
NFPA 72 - 2016
NFPA 101 - 2015



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SWSD Rescue Junior
San Diego, CA







Package 1

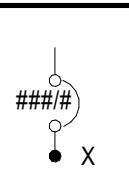
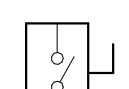
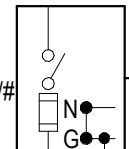
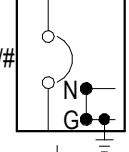
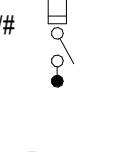




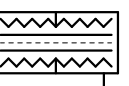
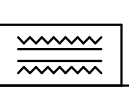
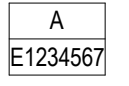
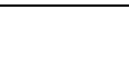

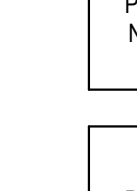
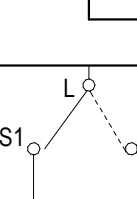
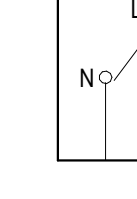
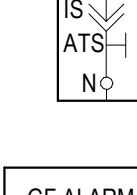
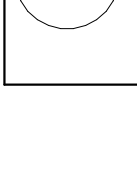
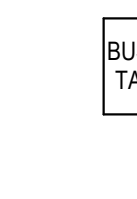

Issue for Bid/Issue for Permit



FIRE VEHICLE EGRESS PATH
PLAN

DATE		FEBRUARY 01, 2023	
DR	BCD	CK	JMSi
PGAV	64117-00	CLIENT	SEA
QUANTITY & NUMBER			


G01.104

POWER CONNECTIONS	
	<p>JUNCTION BOX, WALL MOUNTED</p> <p>SPECIAL EQUIPMENT CONNECTION, WALL MOUNTED: SUBSCRIPT "X" INDICATES UNIQUE IDENTIFIER, REFER TO EQUIPMENT CONNECTION SCHEDULE.</p>
	<p>JUNCTION BOX, CEILING MOUNTED</p> <p>SPECIAL EQUIPMENT CONNECTION, CEILING MOUNTED: SUBSCRIPT "X" INDICATES UNIQUE IDENTIFIER, REFER TO EQUIPMENT CONNECTION SCHEDULE.</p>
	<p>DISCONNECT SWITCH, REFER TO EQUIPMENT CONNECTION SCHEDULE FOR DISCONNECT TYPE, UNO.</p>
	<p>MOTOR, SUBSCRIPT "X" DENOTES MOTOR DESIGNATION, REFER TO EQUIPMENT CONNECTION SCHEDULE.</p>
	<p>POWER POLE</p>
	<p>SHUNT TRIP PUSH BUTTON B OR - BUILDING SHUNT TRIP - LIGHTING OVERRIDE</p>

            	<p>CKT BREAKER, ### INDICATES TRIP SETTING, % INDICATES NUMBER OF POLES</p> <p>SS - SOLID STATE GFF - GROUND FAULT PROTECTION ERMS - ENERGY-REDUCING MAINTENANCE SWITCH EO - ELECTRICALLY OPERATED</p> <p>ENCLOSED NON-FUSED DISCONNECT SWITCH</p> <p>ENCLOSED FUSED DISCONNECT SWITCH ### INDICATES TRIP SETTING, % INDICATES NUMBER OF POLES</p> <p>ENCLOSED CIRCUIT BREAKER ### INDICATES TRIP SETTING, % INDICATES NUMBER OF POLES</p> <p>FUSED SWITCH, ### INDICATES TRIP SETTING, % INDICATES NUMBER OF POLES</p> <p>KIRK KEY INTERLOCK</p> <p>DIGITAL MULTI-METER</p> <p>SHUNT TRIP</p> <p>SURGE SUPPRESSION DEVICE</p> <p>GROUND</p> <p>TRANSFORMER</p> <p>SHIELDED/ISOLATION TRANSFORMER</p> <p>PAD MOUNTED TRANSFORMER</p> <p>FEEDER REFERENCE</p>	       	<p>UTILITY METER</p> <p>MINI POWER ZONE PANEL</p> <p>PANEL BOARD</p> <p>GENERATOR CONNECTION PANEL WITH MANUAL TRANSFER SWITCH</p> <p>AUTOMATIC TRANSFER SWITCH</p> <p>AUTOMATIC TRANSFER SWITCH WITH BYPASS ISOLATION</p> <p>GENERATOR</p> <p>BUS DUCT</p>
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GROUNDING			
	GROUND ROD		GROUND BUS BAR

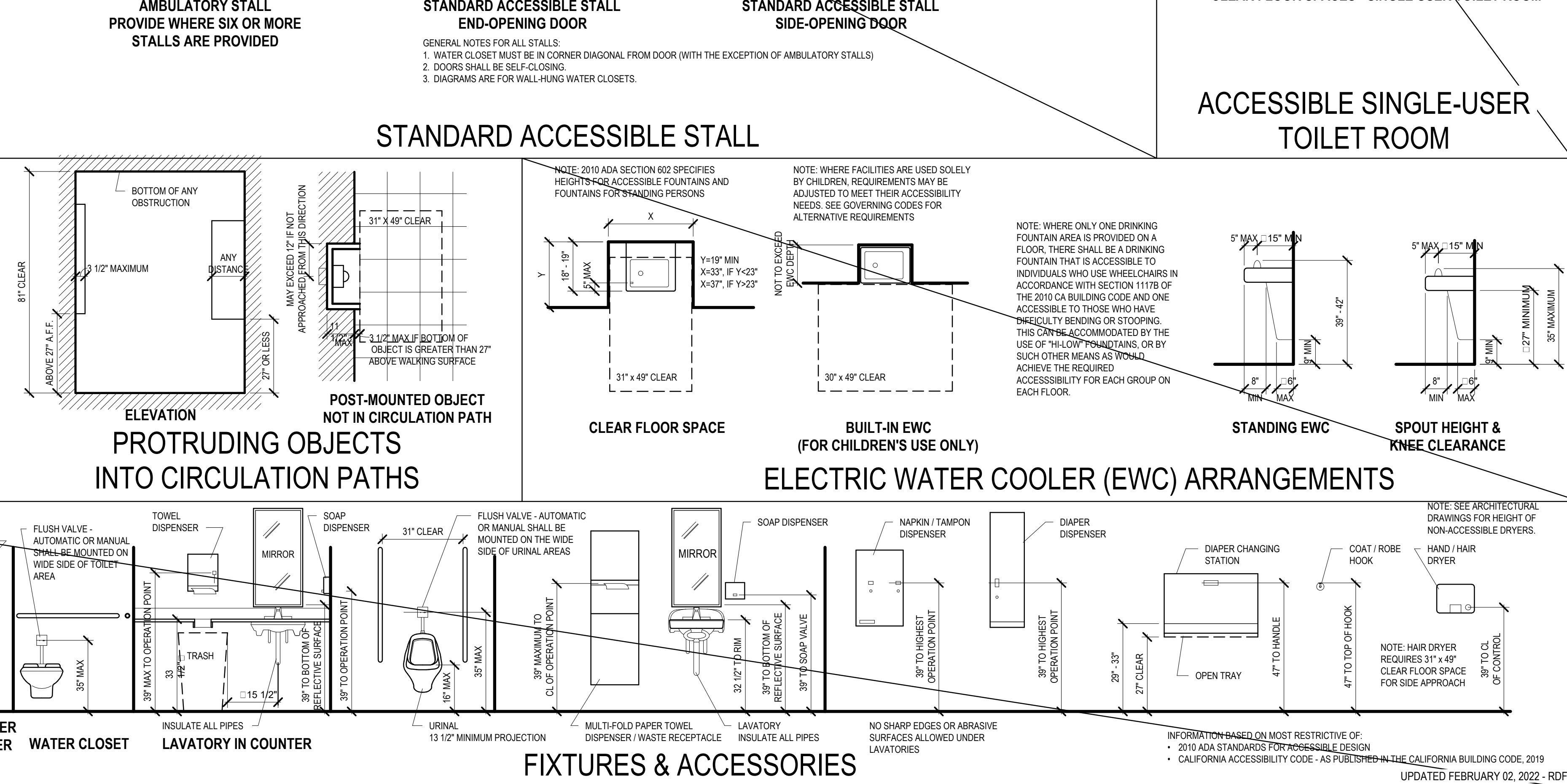
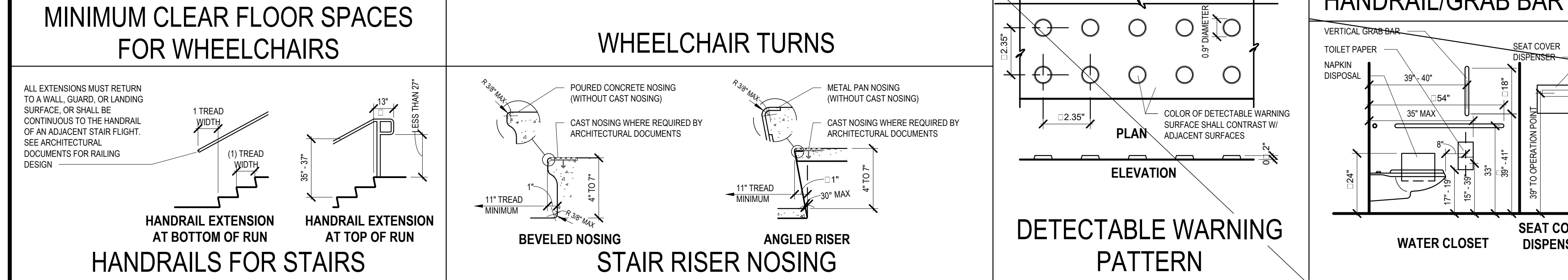
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 <p>SeaWorld[®] SAN DIEGO</p>	
<p>Rescue Junior</p> <p>San Diego, CA</p>	
<p>Package 1</p>	
<p>Issue for Bid/Issue for Permit</p>	

LEGEND AND ABBREVIATIONS

DATE		02/01/23	
DR	YWH	CK	MAS
PGAV	64117-00	CLIENT	SEA
SHEET NUMBER			

E000.001



SWSD Rescue Junior			
San Diego, CA			
Package 1			
Issue for Bid/Issue for Permit			
GENERAL AVAILABILITY REQUIREMENTS, CA			
DATE FEBRUARY 01, 2023			
DR	BCD	CK	JMSI
PGAW	84117-00	CLIENT	SEA
SHEET NUMBER			
G01.351			

[illegible]

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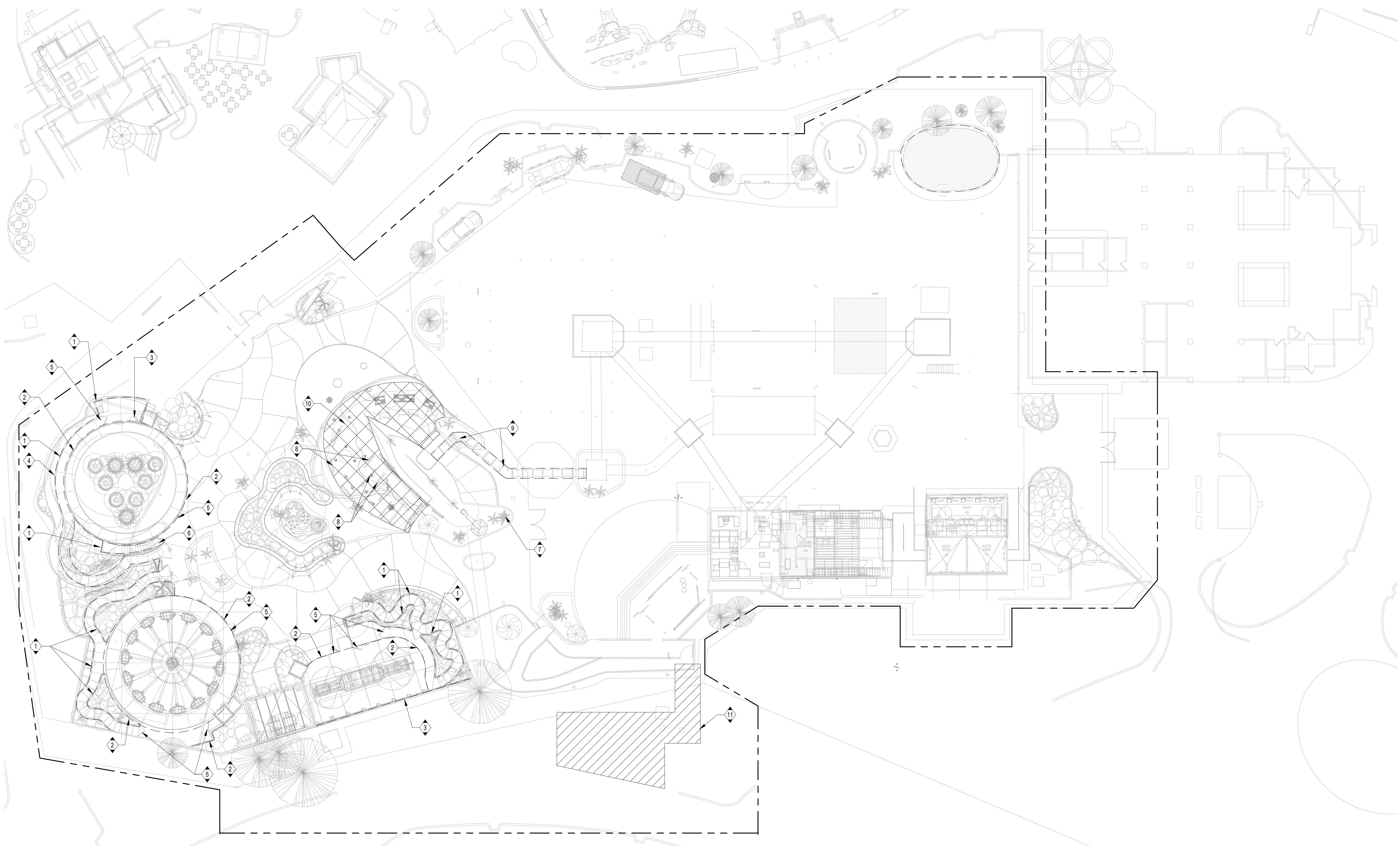
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KEY:

 PROJECT LIMIT LINE
 DEMOLITION
 SURFACE DEMOLITION
 NEW CONSTRUCTION - RAMP

KEYED NOTES - FLOOR PLAN

NOTE NUMBER	NOTE TEXT
1	024119A. QUEUE RAILING
2	024119A. RIDE RESTRICTED RAILING
3	024119A. GUARDRAIL
4	024119A. CONCRETE FOOTING
5	024119C. RIDE RESTRICTED GATE ASSEMBLY AND MAG-LOCK GATE HARDWARE. COORDINATE WITH EXISTING RIDE CONTROL SYSTEM.
6	024119A. ACCESS GATE ASSEMBLY AND HARDWARE
7	024119C. LIGHT POLE
8	024119B. WATER PLAY. REFER TO BMP DESIGN INTENT PACKAGE FOR CLARITY. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION REGARDING CAPPING AND REROUTING PIPING.
9	024119A. ABANDONED PLAY STRUCTURE SUPPORTS
10	024119C. SAFETY SURFACE. STATUS: EXISTING CONCRETE AS REQUIRED FOR NEW PLUMBING ROUTING.
11	024119A. EXISTING LANDSCAPE AREA AS REQUIRED FOR NEW RAMP ASSEMBLY. SAW CUT CURBING AND PAVEMENT AS REQUIRED. CONTRACTOR TO COORDINATE WITH OWNER REGARDING LANDSCAPE AND IRRIGATION DEMOLITION.

GENERAL NOTES

1. REFER TO BMP DESIGN NOTE 1: PACKAGE FOR ADDITIONAL DEMOLITION SCOPE.
2. ALL EXISTING LANDSCAPE TO REMAIN. U.N.O. CONTRACTOR TO PROTECT EXISTING PLANTS AND IRRIGATION SYSTEMS. COORDINATE WITH OWNER WHEN EXISTING PLANTS AND/OR IRRIGATION SYSTEMS WILL BE DISTURBED DUE TO DEMOLITION/CONSTRUCTION.
3. PATCH ALL PATCH ALL CONCRETE PATHWAYS AND CURBING AS REQUIRED IF DAMAGED DURING DEMOLITION OF RAILING SYSTEMS. NEW RAILINGS TO USE EXISTING CONCRETE CORES WHENEVER POSSIBLE.
4. REFER TO SHEET A02202 FOR ADDITIONAL DEMOLITION SCOPE AND DETAILS.
5. REFER TO STRUCTURAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION SCOPE.
6. U.N.O. CONTRACTOR TO CORROBORATE LOCATION OF UTILITY CONDUITS, VALVES AND GATES WITH OWNER.
7. ELEVATIONS SHOWN ARE BASED ON A SURVEY OF EXISTING CONDITIONS.

[illegible]

**SWSD Rescue
Junior**
San Diego, CA

package 1

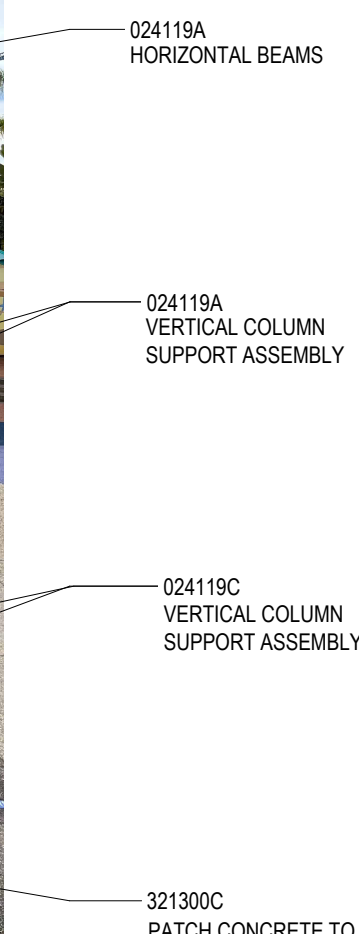
Issue for Bid/Issue for Permit

SITE DEMOLITION PLAN

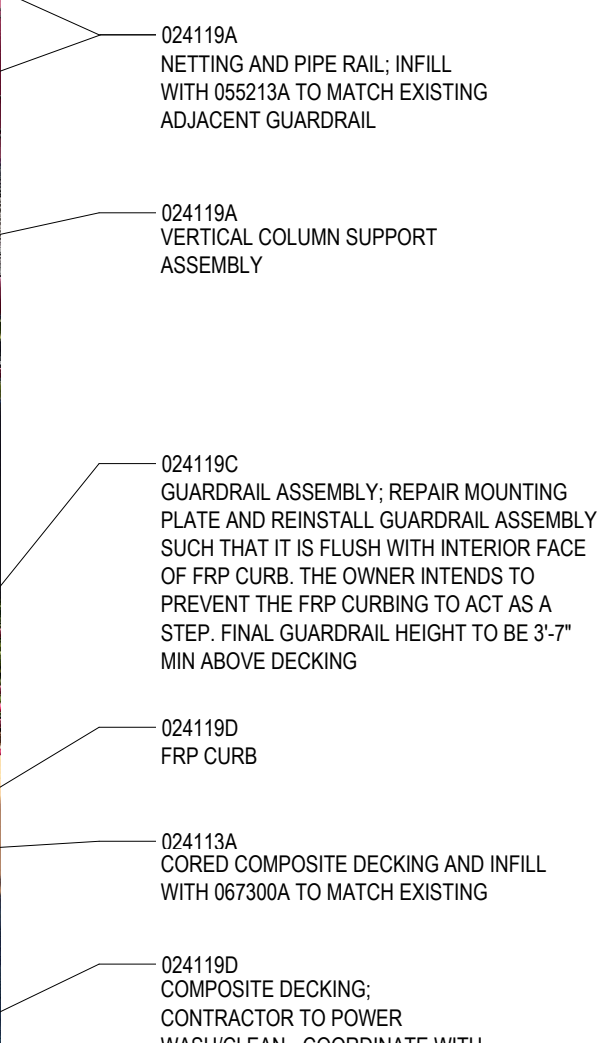
FEBRUARY 01, 2023

GAV	CLIENT
84117-00	SEA

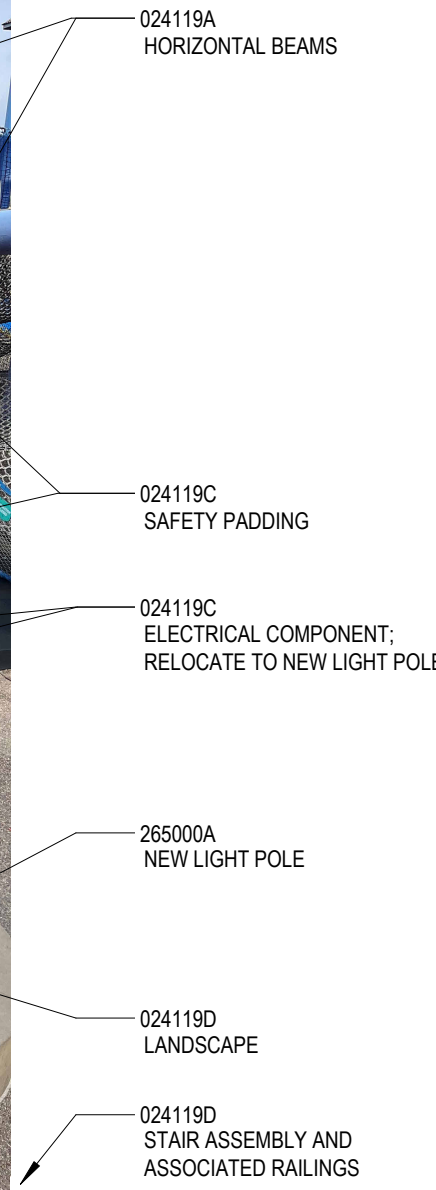
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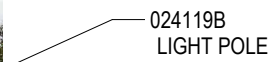
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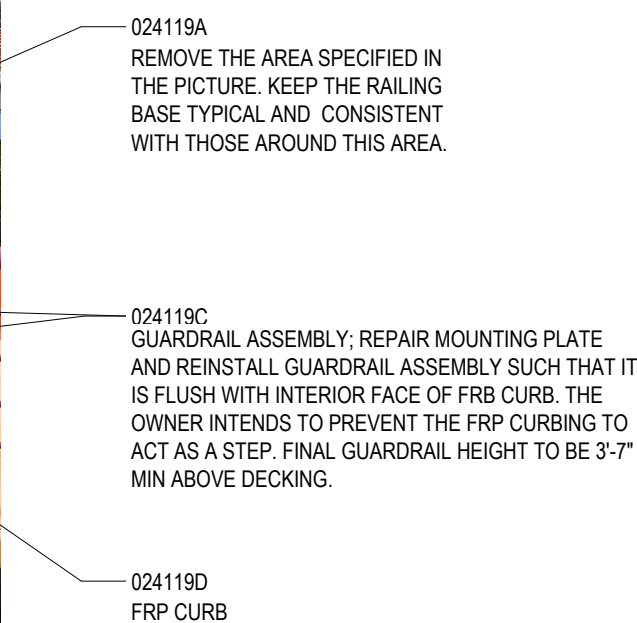
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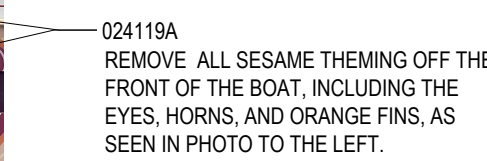
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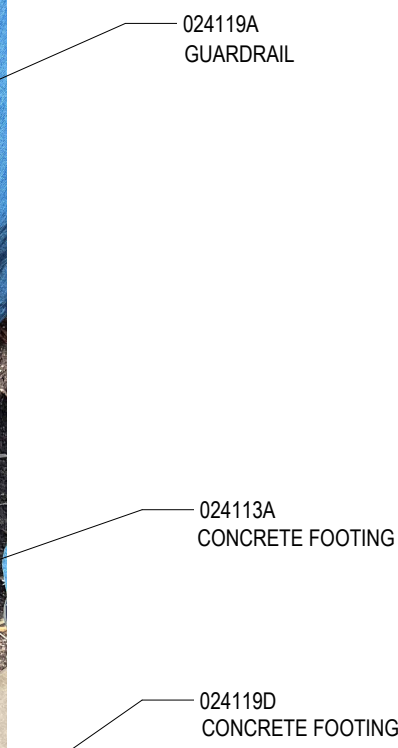
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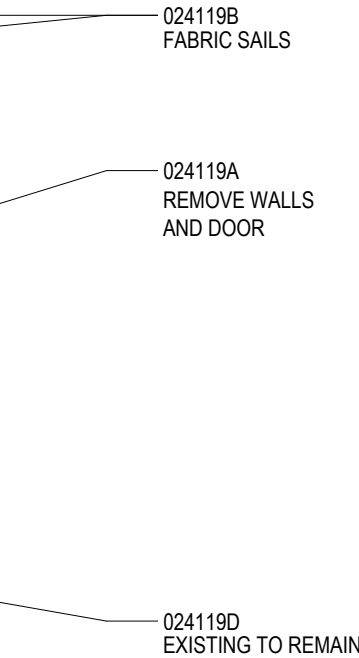
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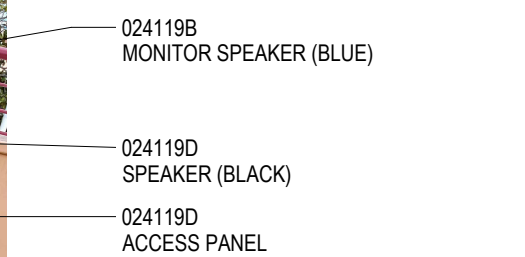
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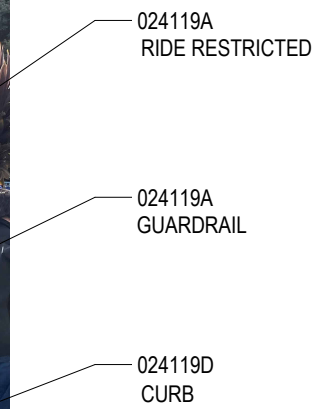
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A02.202 SCALE: 1/4" = 1'-0"



A02.202 SCALE: 1/4" = 1'-0"



02.202 SCALE: 1/4" = 1'-0"

Keynote List

Key Value	Keynote Text
024113A	REMOVE - AS NOTED - REF CIVIL
024119A	REMOVE - AS NOTED
024119B	REMOVE & TURN OVER TO OWNER
024119C	REMOVE & RELOCATE - AS NOTED
024119D	EXISTING TO REMAIN
265000A	LIGHT FIXTURES - REF ELEC
321300C	EXPOSED AGGREGATE CONCRETE FINISH (SEE SCHED) - REF CIVIL

PGAV
DESTINATIONS
PECKHAM GUYTON ALBERS & VIETS, INC.
200 North Broadway, Suite 1000, St. Louis, MO 63102
(314) 231-7318 WWW.PGAV.COM

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GENERAL NOTES

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2. REFER TO EXISTING DEMOLITION TO REMAIN. UNO CONTRACTOR TO PROTECT EXISTING PLANTS AND IRRIGATION SYSTEMS. COORDINATE WITH OWNER WHEN EXISTING PLANTS AND/OR IRRIGATION SYSTEMS WILL BE REMOVED.
3. CONTRACTOR TO PATCH ALL CONCRETE PATHWAYS AND CURBING AS WELL AS REPAIR ALL CRACKS AND REPAIR ALL REINFORCING. REPAIR ALL RAILINGS TO EXISTING CONCRETE CORES WHEREVER POSSIBLE.
4. REFER TO SHEET A22-01 FOR ADDITIONAL DEMOLITION SCHEDULE AND NOTES.
5. COORDINATE WITH OWNER FOR ALL FPP PATCHING AND REPAIR.
6. COORDINATE WITH OWNER FOR ALL REMOVAL OF EXISTING FENCING. INCLUDES SIGHT FACING EXTERIOR AS WELL AS BOTH AREAS INTERIOR.
7. COORDINATE WITH OWNER FOR ALL COMPOSITE DECKING, PATIOING, AND PORCHES. CONTRACTOR TO PATCH OR TO QUANTIFY ANY REPAIRS OR BLOCKING AS REQUIRED.
8. CONTRACTOR TO REMOVE THE UPPER DECK LEVEL TO BE ACCESSIBLE TO GUESTS. CONTRACTOR TO ENSURE ALL EXISTING GUARDRAILS MEET MINIMUM STANDARDS FOR GUARDRAIL (7.7) AND THAT ALL PORTIONS REMAINING ARE IN GOOD CONDITION AND TO QUANTIFY ANY REPAIRS OR REPLACEMENT.
9. CONTRACTOR TO PROVIDE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION SCHEDULE.
10. CONTRACTOR TO COORDINATE LOCATION OF 019000A, CONSTRUCTION

[illegible]

**SWSD Rescue
Junior**
San Diego, CA

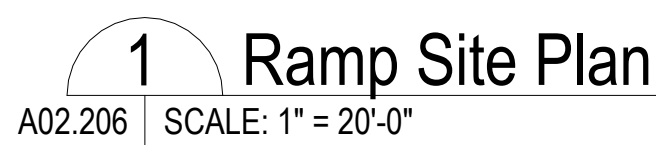
Package 1

Issue for Bid/Issue for Permit

DEMOLITION DETAILS

DATE		FEBRUARY 01, 2023	
DR	BCD	CK	JMSI
PGAV	84117-00	CLIENT	SEA
SHEET NUMBER			








A02.202



PG&V
DESTINATIONS
JECODAM GUYTON ABBES & VETS, INC.
1000 North Broadway, Suite 1000, St. Louis, MO 63102
314.251.7518 WWW.PG&V.COM

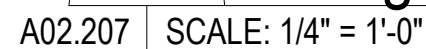
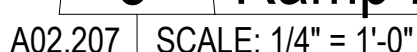
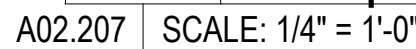
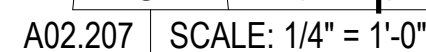
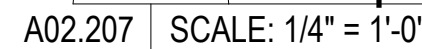
Theming Design Intent:
The theming scope of work shown on these drawings is for design intent. Outlines, sketches, drawings, picture references, material specifications, and notes on this document are for the purposes of location, general identification, adjacency, and design intent. Structural design, code compliance, manufacture, installation, and safety of operation are to be provided by the Contractor including engineering documentation signed and sealed by a qualified Engineer licensed to practice by the authority having jurisdiction. The Architect/Designer's review of submittals is for the purpose of checking for conformance with information given and the design concept expressed in the Contract Documents.

Key:

	PATCH CONCRETE FOR NEW PLUMBING AS REQUIRED; ENTIRE AREA RECEIVE "TOUGH COAT"
	NEW GUEST PATH TO MATCH EXISTING ADJACENT
	PROJECT LIMIT LINE
	055213A, TYPE R1: GUARDRAIL
	055213A, TYPE R2: RIDE RESTRICTED
	055213A, TYPE R3: GUARDRAIL WITH HANDRAIL
	055213B, TYPE R4: HANDRAIL

[illegible]

A02.206



THE SEAL AND SIGNATURE APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OF PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

Accessibility for Persons with Disabilities: This drawing contains layouts and elements critical to providing Access for Disabled Persons. Contractor shall provide verification and certification of Compliance with the applicable accessibility regulations.

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Ride Disclaimer:
 Outlines, sketches, or references of a possible "Ride" or "Riders" or use of any "ride terms" such as "cavalcade", "trinity-pouring", trade names, etc., on this drawing are for purpose of location, general identification, a adjacency only. Packham, Guyton, Albers, and Viets, Inc. and all engineers or companies listed on this drawing (herein after referred as Architects/Engineer) hereby give notice that the drawing is not shown or intended to be shown in any way, shape, or form the creation or responsibility of the Architects/Engineer. Its design, structural support, manufacture, erection, approval, acceptance, operation, safety, maintenance and all of its function, characteristics, or appearances are not a part of the Architects/Engineer's design. Such functions are to be performed by others engaged by the Owner for such purpose, or by Owner's personnel.

A02.207

STRUCTURAL GENERAL NOTES

TYPICAL DETAILS AND THESE NOTES SHALL APPLY UNLESS NOTED OTHERWISE ON THE DRAWINGS OR PROJECT SPECIFICATIONS.

USE OF DRAWINGS

USE OF DRAWINGS AND COORDINATION: USE STRUCTURAL DRAWINGS IN CONJUNCTION WITH SPECIFICATIONS, EXISTING AND OTHER DRAWINGS FOR BIDDING AND CONSTRUCTION. COORDINATE WORK AND VERIFY DIMENSIONS AND CONDITIONS FOR COMPATIBILITY BETWEEN TRADES. NOTIFY OWNER'S PROJECT MANAGER OF DISCREPANCIES PRIOR TO CONSTRUCTION.

DRAWING SCALE: NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS - DO NOT SCALE DRAWINGS.

DIMENSION VERIFICATION: DIMENSIONS NOTED PLUS OR MINUS (+/-) INDICATE UN-VERIFIED DIMENSIONS THAT REQUIRE CONFIRMATION OR DETERMINATION BY THE CONTRACTOR PRIOR TO FABRICATION AND CONSTRUCTION. NOTIFY OWNER'S PROJECT MANAGER IMMEDIATELY OF CONFLICTS OR VARIATIONS FROM INDICATED DIMENSIONS.

NOTE CONFLICTS: IF ANY STRUCTURAL NOTES ARE IN CONFLICT WITH OTHER DRAWINGS OR THE SPECIFICATIONS, USE THE MOST STRINGENT REQUIREMENT FOR BIDDING AND CONSTRUCTING THE WORK.

EXISTING CONDITIONS: INFORMATION SHOWN ON THE DRAWINGS RELATED TO EXISTING CONDITIONS REPRESENTS THE PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY.

VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES, AND CONDITIONS IN THE FIELD PRIOR TO COMMENCING ANY WORK. REPORT CONDITIONS THAT CONFLICT WITH THE CONTRACT DOCUMENTS TO THE OWNER'S PROJECT MANAGER. DO NOT DEVIATE FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN DIRECTION FROM THE OWNER'S PROJECT MANAGER.

DESIGN AND CONSTRUCTION CRITERIA

GOVERNING BUILDING CODE: DESIGN AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA EXISTING BUILDING CODE (2019). THE PUBLICATIONS LISTED BELOW ARE THE GOVERNING CODES AND STANDARDS REFERENCED BY THE BUILDING CODE. IN CASE OF CONFLICTING REQUIREMENTS, THE BUILDING CODE SHALL GOVERN.

PRIMARY REFERENCE STANDARDS: (USE VERSION REFERENCED BY GOVERNING CODE. IF NOT REFERENCED BY GOVERNING CODE, USE LATEST EDITION)

ASCE MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7

ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS

ICC INTERNATIONAL CODE COUNCIL

ACI 315 GUIDE TO PRESENTING REINFORCING STEEL DESIGN DETAILS

ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE

AWS AMERICAN WELDING SOCIETY

MEANS AND METHODS

MEANS AND METHODS: THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION MEANS AND THE METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES REQUIRED FOR SAFELY CONSTRUCTING ALL WORK.

JOBSITE SAFETY: THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING A SAFE PLACE TO WORK AND FOR MEETING THE REQUIREMENTS OF ALL APPLICABLE JURISDICTIONS. EXECUTE WORK IN A MANNER THAT PROVIDES FOR THE SAFETY OF PERSONS AND ADJACENT PROPERTY AGAINST INJURY AND DAMAGE DUE TO FALLING DEBRIS AND OTHER HAZARDS IN CONNECTION WITH CONSTRUCTING THE WORK.

SUBMITTALS

SHOP DRAWINGS: SUBMIT SHOP DRAWINGS FOR REVIEW AND ACCEPTANCE BY THE OWNER'S PROJECT MANAGER AND ENGINEER-OF-RECORD PRIOR TO ANY FABRICATION OR CONSTRUCTION. DIMENSION AND QUANTITY VERIFICATION ARE THE CONTRACTOR'S RESPONSIBILITIES AND ARE NOT REVIEWED BY THE ENGINEER OF RECORD. THE CONTRACTOR SHALL REVIEW AND STAMP DRAWINGS PRIOR TO REVIEW BY THE ENGINEER OF RECORD. IF DEVIATIONS, DISCREPANCIES, OR CONFLICTS BETWEEN SHOP DRAWING SUBMITTALS AND THE CONTRACT DOCUMENTS ARE DISCOVERED, EITHER PRIOR TO OR AFTER THE ENGINEER PROCESSES THE SHOP DRAWING SUBMITTALS, THE DESIGN DRAWINGS AND SPECIFICATIONS SHALL CONTROL AND SHALL BE FOLLOWED.

REQUIRED SUBMITTALS:
REQUIRED SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

- EPOXY ADHESIVES
- CONCRETE MIX DESIGN
- REINFORCING BARS
- DECORATIVE CONCRETE SURFACE SAMPLE
- OTHERS PER SPECIFICATIONS

SUBMITTAL ACCEPTANCE: FOLLOWING ACCEPTANCE BY THE OWNER'S PROJECT MANAGER AND ENGINEER AND PRIOR TO FABRICATION, ADDITIONAL TIME FOR REVIEW AND ACCEPTANCE OF SUBMITTAL BY THE BUILDING OFFICIAL IS REQUIRED AND SHALL BE IDENTIFIED AND ALLOWED FOR IN THE CONTRACTOR'S SCHEDULE.

SUBSTITUTIONS: SUBMIT SUBSTITUTION REQUESTS PER THE PROCEDURES IN THE SPECIFICATIONS WITH APPLICABLE ICC REPORTS TO THE OWNER'S PROJECT MANAGER AND STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO DETAILING, FABRICATION AND ERECTION. ADDITIONAL ENGINEERING CALCULATIONS AND DETAILS, PROVIDED BY A STRUCTURAL ENGINEER LICENSED IN THE PROJECT SITE STATE, MAY BE REQUIRED OF THE CONTRACTOR FOR SUBSTITUTIONS THAT ARE NOT SIMILAR TO THE SPECIFIED PRODUCTS AND CONFIGURATION.

CONCRETE

REFERENCE STANDARDS: (USE VERSION REFERENCED BY GOVERNING CODE. IF NOT REFERENCED BY GOVERNING CODE, USE LATEST EDITION)

ACI 318 AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE

ACI 350 AMERICAN CONCRETE INSTITUTE, CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURE

AWS AMERICAN WELDING SOCIETY, STRUCTURAL WELDING CODE - REINFORCING STEEL, AWS D1.4

REINFORCING STEEL MATERIALS:

DEFORMED BARS ASTM A615, GRADE 60

REINFORCING STEEL DETAILING: REINFORCING STEEL SHALL BE SUPPORTED AS SPECIFIED BY THE PROJECT SPECIFICATIONS AND THE CRSI MANUAL OF STANDARD PRACTICE. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH ACI 315 - DETAILS AND DETAILING OF CONCRETE REINFORCEMENT.

CONCRETE PROTECTION: COVER FOR REINFORCING STEEL SHALL BE 2 1/2" AT ALL CONCRETE FACES, UON.

ADHESIVE ANCHORS AND EPOXYED REINFORCING BARS: PLACEMENT AND CURING SHALL BE CONDUCTED WITH CONCRETE AND AIR TEMPERATURES ABOVE 50 DEGREES. APPLY EPOXY ONLY TO CLEAN, DRY CONCRETE. PROVIDE POSITIVE PROTECTION SO DOWELS ARE NOT DISTURBED DURING THE CURING PERIOD.

STAINLESS STEEL ADHESIVE ANCHORS AND REINFORCING BARS, WHERE CALLED OUT, SHALL BE EPOXIED INTO CONCRETE WITH HILTI HY-200 ADHESIVE, OR APPROVED EQUIVALENT. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH ICC REPORT ESR-3187. ADHESIVE ANCHOR RODS SHALL BE ASTM F593 TYPE 316 STAINLESS STEEL THREADED RODS, OR APPROVED EQUIVALENT.

STAINLESS STEEL ADHESIVE ANCHORS AND REINFORCING BARS, WHERE CALLED OUT, SHALL BE EPOXIED INTO CONCRETE MASONRY UNITS WITH HILTI HY 270 ADHESIVE, OR APPROVED EQUIVALENT. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH ICC REPORT ESR-4143. ADHESIVE ANCHOR RODS SHALL BE ASTM F593 TYPE 316 STAINLESS STEEL THREADED RODS, OR APPROVED EQUIVALENT.

POST-INSTALLED DRILLING: HOLES FOR INSTALLING REINFORCING BARS, BOLTS, THREADED RODS AND INSERTS INTO CONCRETE SHALL BE DRILLED BY THE ICC APPROVED DRILLING METHOD FOR THE ANCHOR. CHIP AWAY A SUFFICIENT QUANTITY OF CONCRETE COVER TO LOCATE EXISTING REINFORCING PRIOR TO DRILLING. DO NOT CUT EXISTING REINFORCING.

CONCRETE MIX DESIGNS						
AREA	MIN F _c (PSI), 28 DAYS	MAX W/C	ENTRAINED AIR	FLY ASH	MAXIMUM AGGREGATE	EXPOSURE CLASS
ALL CONCRETE	4,000	0.40	-	25-30%	3/4"	W1

- NOTES:
- FORMULATE ALL CONCRETE TO HAVE LOW SHRINKAGE, LOW PERMEABILITY, AND A HIGH LEVEL OF CORROSION RESISTANCE THAT WILL PROTECT REBAR AND OTHER EMBEDDED METALS.
 - CORROSION INHIBITOR ADMIXTURE IS REQUIRED WITH DOSAGE AS REQUIRED TO PROVIDE 9.9 lbs/CY CHLORIDE PROTECTION MINIMUM.

SPECIAL INSPECTIONS

SPECIAL INSPECTIONS: REFER TO IBC TABLE 1705.3 FOR REQUIRED SPECIAL INSPECTIONS THAT SHALL BE PERFORMED BY A TESTING AGENCY CERTIFIED TO PROVIDE THE REQUIRED INSPECTIONS IN THE STATE OF CALIFORNIA.

IBC TABLE 1705.3 REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION					
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD	IBC REFERENCE	APPLICABLE TO PROJECT?
1. INSPECT REINFORCING STEEL AND VERIFY PLACEMENT.	-	X	ACI 318: CH. 20, 26.2, 26.3, 26.6.1-26.6.3	1908.4	YES
2. REINFORCING BAR WELDING: a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706. b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16", AND c. INSPECT ALL OTHER WELDS.	- - X	X - -	AWS D1.4 ACI 318: 26.6.4	-	NO
3. INSPECT ANCHORS CAST IN CONCRETE.	-	X	ACI 318: 17.8.2	-	YES
4. INSPECTION OF ANCHORS POST INSTALLED IN HARDENED CONCRETE MEMBERS: a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.	X - -	- X -	ACI 318: 17.8.2.4 ACI 318: 17.8.2	-	YES
5. VERIFYING USE OF REQUIRED DESIGN MIX.	-	X	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3	YES
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C172 ASTM C31 ACI 318: 26.4, 26.12	1908.10	YES
7. INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318: 26.5	1908.6, 1908.7, 1908.8	YES
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318: 26.5.3 - 26.5.5	1908.9	YES
9. INSPECTION OF PRESTRESSED CONCRETE: a. APPLICATION OF PRESTRESSING FORCES; AND b. GROUTING OF BONDED PRESTRESSING TENDONS.	X X -	- - X	ACI 318: 26.10	-	NO
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	-	X	ACI 318: 26.8	-	NO
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS.	-	X	ACI 318: 26.11.2	-	YES
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318: 26.11.2.(b)	-	YES

TABLE NOTES:

- b. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 OF ACI 318 OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

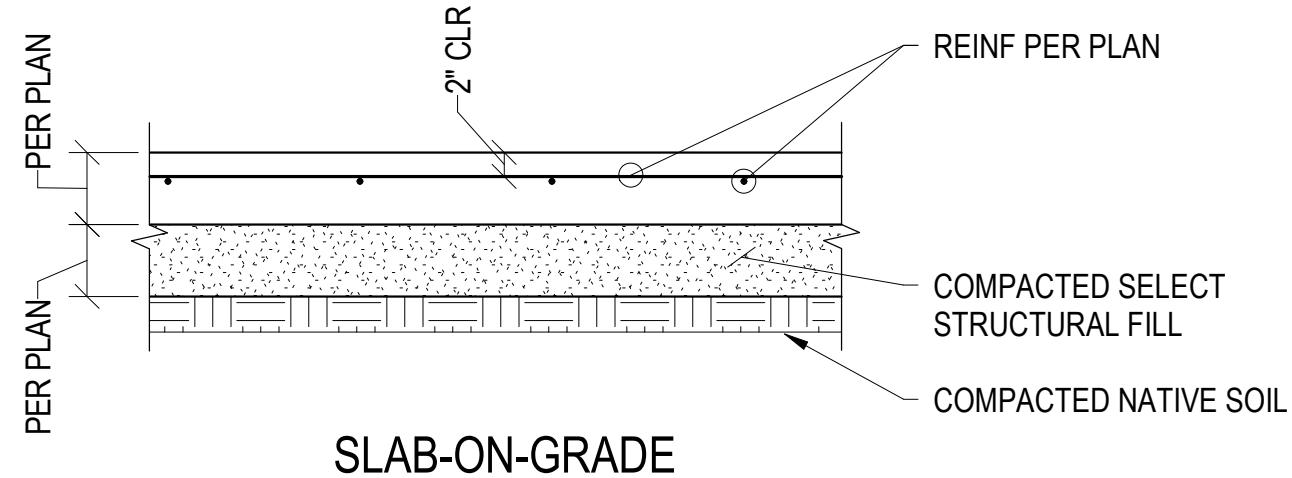
Fc = 4000 PSI		SPLICE AND DEVELOPMENT LENGTHS BASED ON ACI 318-14						
BAR SIZE	TENSION LAP LENGTH, L _L		TENSION DEV LENGTH, L _d		COMP LAP LENGTH, L _{CS}	COMP DEV LENGTH, L _{CD}	STANDARD HOOK	
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS			LENGTH, L _{SH}	HOOK
CLASS	B	B						
#3	25	20	20	15	12	8	7	6
#4	33	25	25	19	15	9	9	8
#5	40	31	31	24	19	12	12	10
#6	48	38	38	29	23	14	14	12
#7	70	55	55	42	26	17	17	14
#8	81	62	62	48	30	19	19	15
#9	91	70	70	54	34	21	21	19
#10	103	79	79	61	38	24	24	21
#11	113	87	87	67	42	27	27	23

- NOTES:
- USE THE LENGTHS IN THESE SCHEDULES, UNLESS OTHERWISE NOTED. ALL VALUES IN INCHES.
 - f_c = PER GENERAL NOTES
 - F_y = 60,000 PSI
 - LAP SPLICES SHALL BE 'CLASS B', UNLESS OTHERWISE NOTED ON PLANS.
 - A TOP BAR IS A HORIZONTAL BAR WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW IT.
 - MULTIPLY LENGTHS BY 1.5 IF MIN CENTER-TO-CENTER SPACING < 3x BAR DIAMETERS OR MIN CLEAR COVER < 1 BAR DIAMETER.
 - STAGGER ADJACENT LAP SPLICES BY THE GREATER OF 40d OR 24".

ASSUMPTIONS:
CONCRETE IS NORMAL WEIGHT.
REINFORCEMENT IS UNCOATED OR ZINC-COATED (GALVANIZED).
CONFINING REINFORCEMENT DOES NOT EXIST FOR MODIFICATION FACTOR.

1 CONCRETE DEVELOPMENT AND SPLICE LENGTH

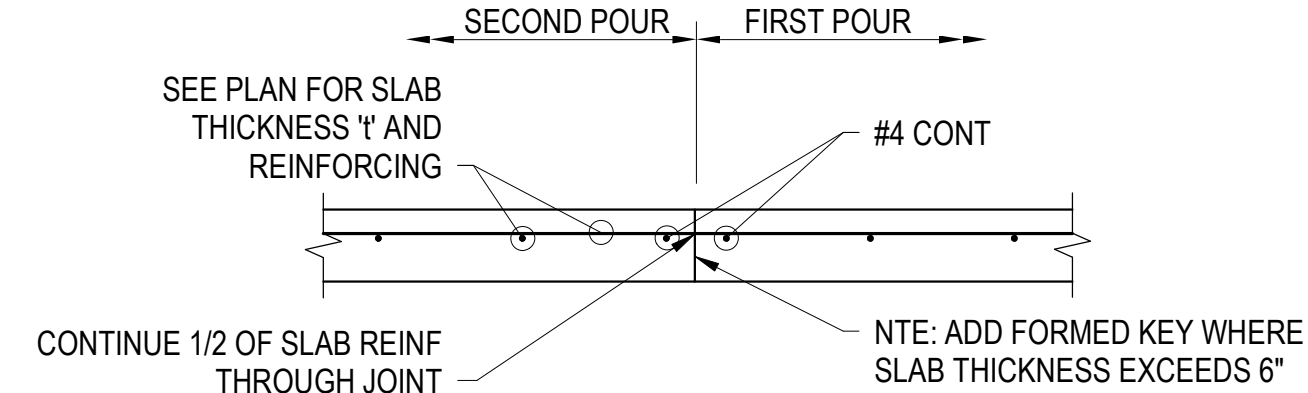
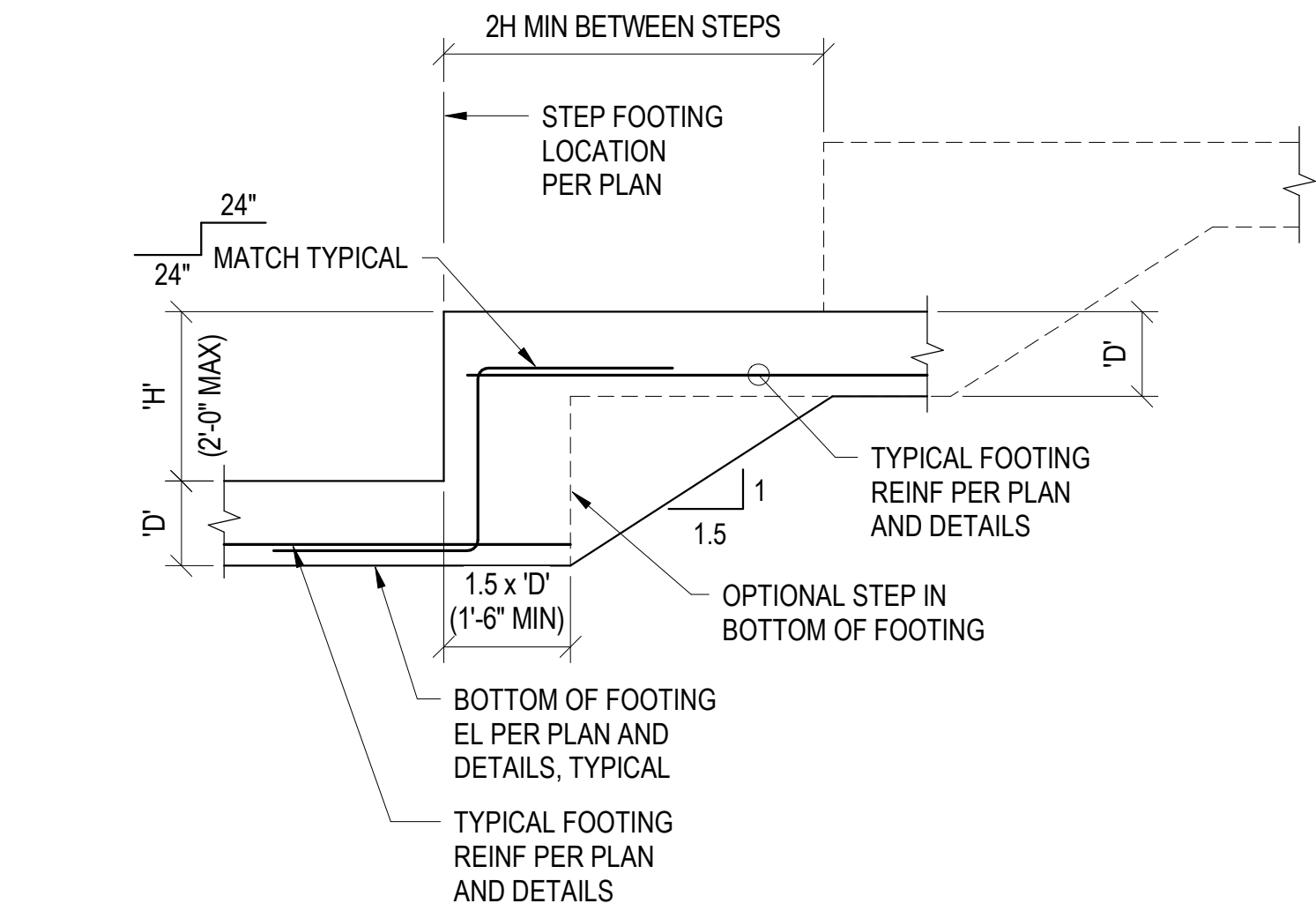
SCALE: NTS



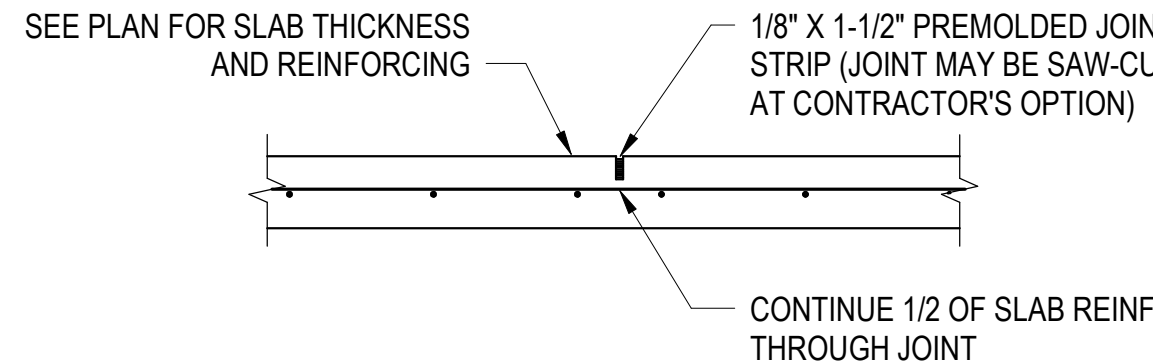
SLAB-ON-GRADE

2 TYPICAL STEPPED FOOTING

SCALE: NTS



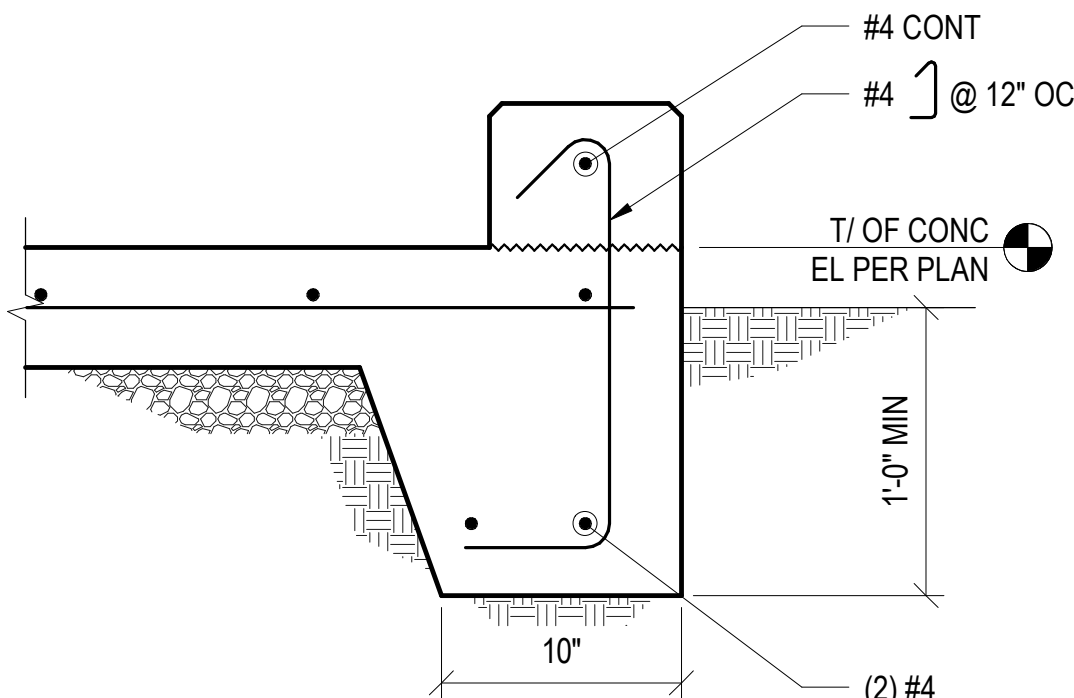
CONSTRUCTION JOINT



CONTROL JOINT

3 TYPICAL SLAB-ON-GRADE DETAILS

SCALE: NTS

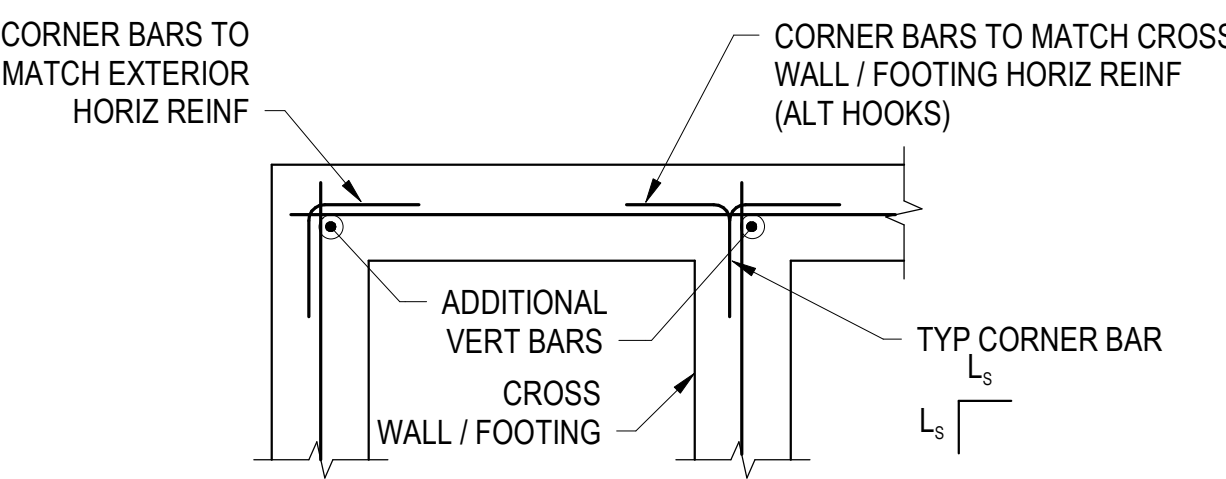
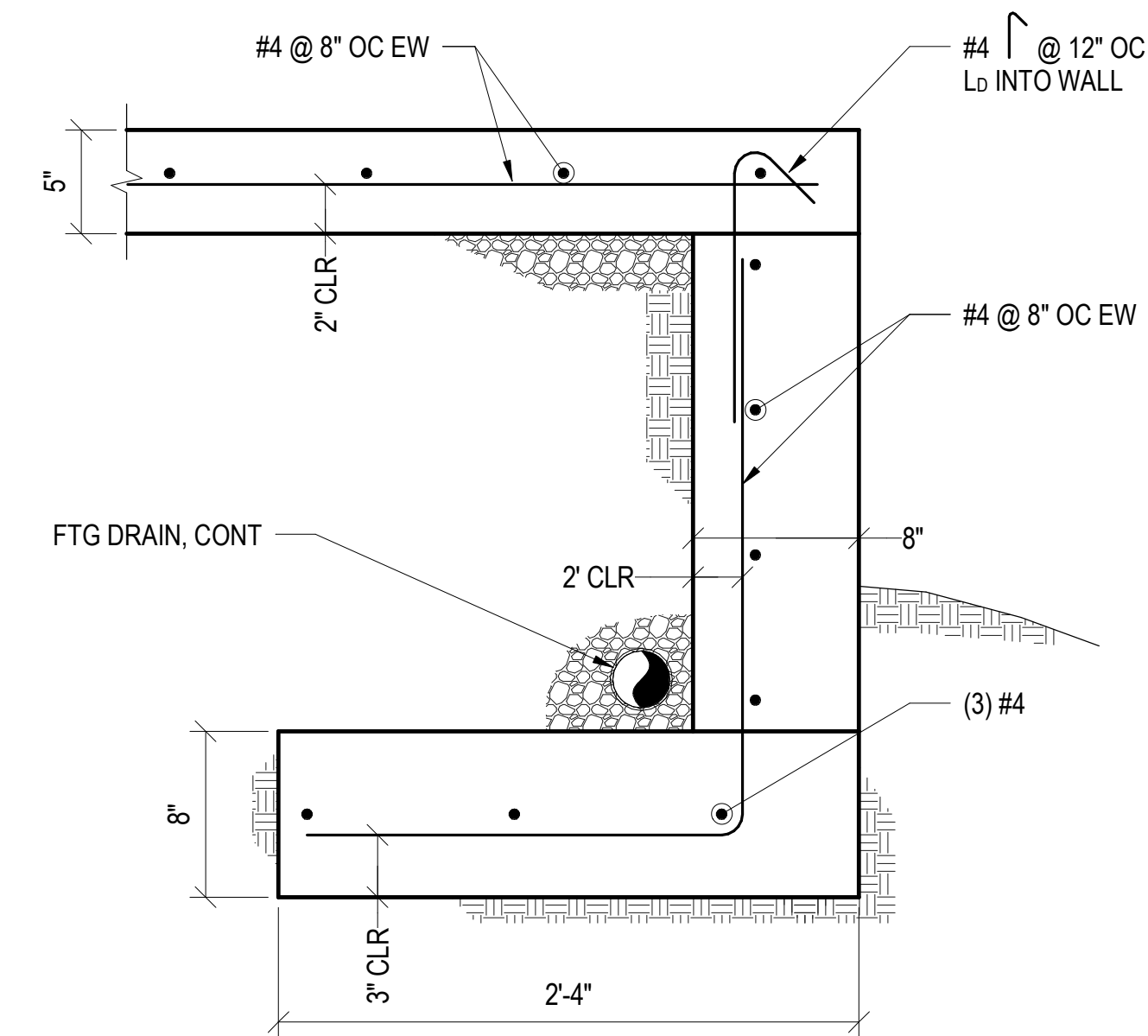


4 TYP TURNED-DOWN SLAB DETAIL

1 1/2\"/>

5 TYP RETAINING WALL

1 1/2\"/>



SINGLE CURTAIN

6 TYPICAL CONCRETE WALL AND FOOTING CORNER BARS

SCALE: NTS

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DESTINATIONS

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PREPARED BY OR FOR THE ENGINEER.

THE SEAL AND SIGNATURE OF THE

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MLA

ENGINEERING

1424 Fourth Ave., Suite 415

Seattle, WA 98101

(206) 264-2727

www.mlaengineering.com

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and certification of Compliance with the
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Theming Design Intent:
The theming scope of work shown on these
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compliance, manufacture, installation, and
safety of operation are to be provided by the
Contractor including engineering
documentation signed and sealed by a
qualified Engineer licensed to practice by the
state of Washington. The Engineer's
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and to ensure that the design intent is
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Role Description:
Quotes, estimates, or references of any
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terms such as "lowest", "best-practice",
trade names, etc. on this drawing are for
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Contractor's work. Such functions are
to be performed to ensure that the
Owner for such purposes, or by Owner's
personal.

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

SeaWorld

SAN DIEGO

Rescue Junior

San Diego, CA

DESIGN DEVELOPMENT






GENERAL STRUCTURAL
NOTES

DATE	05/13/21
DR	Designer
OR	Checker
M.A.	2023.101
SHEET NUMBER	CLIENT

S010

REFERENCE ONLY

LINE TYPES	
—U-OH—	UTILITY OVERHEAD ELECTRICAL DISTRIBUTION
—U-E—	UTILITY UNDERGROUND ELECTRICAL DISTRIBUTION
—E—	600 VOLT UNDERGROUND ELECTRICAL DISTRIBUTION
—XE—	EXISTING 600 VOLT UNDERGROUND ELECTRICAL DISTRIBUTION
—MV—	MEDIUM VOLTAGE UNDERGROUND ELECTRICAL DISTRIBUTION
—XMV—	EXISTING MEDIUM VOLTAGE UNDERGROUND ELECTRICAL DISTRIBUTION

EXIT SIGNS			
	CEILING MOUNTED SINGLE FACE EXIT SIGN - ARROWS INDICATE DIRECTION		CEILING MOUNTED DOUBLE FACE EXIT SIGN - ARROWS INDICATE DIRECTION
	WALL MOUNTED SINGLE FACE EXIT SIGN ARROWS INDICATE DIRECTION SUBSCRIPT 'L' - INDICATES LOW LEVEL EXIT SIGN		WALL MOUNTED DOUBLE FACE EXIT SIGN - ARROWS INDICATE DIRECTION
	WALL END-MOUNTED SINGLE FACE EXIT SIGN ARROWS INDICATE DIRECTION		











IN-GRADE BOXES





Box Type	Box Number	Size	Designation	Type
Handhole	H	XX		
Manhole	M	XX		
Pullbox	P	XX		

UTILITY LINE





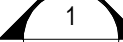



C-COMMUNICATION POWER

EXAMPLE: CMH-1-01

POWER CONNECTIONS			
	JUNCTION BOX, WALL MOUNTED		JUNCTION BOX, CEILING MOUNTED
	SPECIAL EQUIPMENT CONNECTION, WALL MOUNTED. SUBSCRIPT 'X' INDICATES UNIQUE IDENTIFIER. REFER TO EQUIPMENT CONNECTION SCHEDULE.		SPECIAL EQUIPMENT CONNECTION, CEILING MOUNTED. SUBSCRIPT 'X' INDICATES UNIQUE IDENTIFIER. REFER TO EQUIPMENT CONNECTION SCHEDULE.
	DISCONNECT SWITCH. REFER TO EQUIPMENT CONNECTION SCHEDULE FOR DISCONNECT TYPE, UNO		COMBINATION MOTOR STARTER DISCONNECT. REFER TO EQUIPMENT CONNECTION SCHEDULE FOR DISCONNECT TYPE, UNO
	MOTOR. SUBSCRIPT 'X' DENOTES MOTOR DESIGNATION. REFER TO EQUIPMENT CONNECTION SCHEDULE		VARIABLE FREQUENCY DRIVE
	POWER POLE		SHUNT TRIP PUSH BUTTON B - BUILDING SHUT DOWN L - LIGHTING OVERRIDE










RECEPTACLE BRANCH CIRCUIT SHADING			
* SEE RECEPTACLE TYPES BELOW FOR CONFIGURATION			
	SHADING REPRESENTS RECEPTACLE NEC 700 - LIFE SAFETY BRANCH		SHADING REPRESENTS RECEPTACLE ON NEC 517 CRITICAL BRANCH
	SHADING REPRESENTS RECEPTACLE ON NEC 701/517 STANDBY/EQUIPMENT BRANCH		SHADING REPRESENTS RECEPTACLE ON UPS BRANCH



SINGLE LINE SYMBOLS			
	CKT BREAKER '###' INDICATES TRIP SETTING, 'W' INDICATES NUMBER OF POLES		UTILITY METER
	SS - SOLID STATE GFP - GROUND FAULT PROTECTION ERMS - ENERGY-REDUCING MAINTENANCE SWITCH EO - ELECTRICALLY OPERATED		MINI POWER ZONE PANEL
	ENCLOSED FUSED DISCONNECT SWITCH		PANEL BOARD
	ENCLOSED FUSED DISCONNECT SWITCH '###' INDICATES TRIP SETTING, 'W' INDICATES NUMBER OF POLES		
	ENCLOSED CIRCUIT BREAKER '###' INDICATES TRIP SETTING, 'W' INDICATES NUMBER OF POLES		GENERATOR CONNECTION PANEL WITH MANUAL TRANSFER SWITCH
	FUSED SWITCH: '###' INDICATES TRIP SETTING, 'W' INDICATES NUMBER OF POLES		AUTOMATIC TRANSFER SWITCH
	KIRK KEY INTERLOCK		AUTOMATIC TRANSFER SWITCH WITH BYPASS ISOLATION
	DIGITAL MULTI-METER		GENERATOR
	SHUNT TRIP		BUS DUCT
	SURGE SUPPRESSION DEVICE		FEEDER REFERENCE
	GROUND		
	TRANSFORMER		
	SHIELD/ISOLATION TRANSFORMER		
	PAD MOUNTED TRANSFORMER		

TAGS AND CALL OUT SYMBOLS			
	SECTION CALLOUT		POINT OF CONNECTION
	SECTION DESIGNATION SHEET NUMBER		POINT OF DEMARCATION
	DETAIL CALLOUT		REVISION CALLOUT
	DETAIL DESIGNATION SHEET NUMBER		KEYNOTE CALLOUT

DEMOLITION			
< R >	EXISTING TO BE REMOVED	< X >	EXISTING TO REMAIN
< RL >	EXISTING TO BE RELOCATED	< NL >	EXISTING - NEW LOCATION
/////	DEMOLITION CONDUIT	/////	DEMOLITION EQUIPMENT

CIRCUITING	
BLDG-E1MDPHA-1 	3#12, #120, 34°C


LIGHTNING PROTECTION	
 AIR TERMINAL, "X" INDICATES TERMINAL LENGTH IF GREATER THAN 18". SUBSCRIPT "X" INDICATES: A-FLATE SURFACE BASE B-FLAT WALL MOUNTED PARAPET BASE C-SIWEL BASE D-RIDGE SADDLE BASE(EXPOSED) E-RIDGE SADDLE BASE (CONCEALED) F-CONCEALED AIR TERMINAL BASE ASSEMBLY G-EASE AIR TERMINAL	 M — MAIN CONDUCTOR CABLE  G — COUNTERPOISE CONDUCTOR CABLE  B — BONDING CONDUCTOR CABLE  T — TEE CONNECTOR  GR — GROUND ROD  —●— BONDING CONNECTION  —┐— DOWN CONDUCTOR  ○ — UP CONDUCTOR

GROUNDING			
	GROUND ROD		GROUND BUS BAR

GENERAL NOTES

1. NOT ALL SYMBOLS ON ELECTRICAL SYMBOLS SHEET ARE USED.
2. ALL MOUNTING HEIGHTS ARE TO THE CENTERLINE OF THE DEVICE BACKBOX UNLESS NOTED OTHERWISE.
3. ALL ELECTRICAL SYSTEMS INSTALLATIONS SHALL COMPLY WITH NFPA 70 (NATIONAL ELECTRICAL CODE) AS WELL AS ALL APPLICABLE STATE AND LOCAL CODES.
4. DIVISION 26 CONTRACTOR IS RESPONSIBLE FOR MAKING EVERY ATTEMPT TO CONCEAL RACEWAY SYSTEMS WITHIN WALLS OR ABOVE CEILINGS. WHERE RACEWAY SYSTEMS MUST BE INSTALLED WITHIN FRONT OF HOUSE EXPOSED AREAS, CONTRACTOR SHALL INSTALL SYSTEM COMPONENT PER CODE WITH RACEWAY CONCEALMENT FOR VIEWING AND EXTREME SENSITIVITY FOR VISIBILITY OF SYSTEM COMPONENTS. CONDUIT SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO STRUCTURE AS BEST FITS ROUTING REQUIREMENTS AND SHALL BE INSTALLED IN A NEAT AND PROFESSIONAL MANNER, REFER TO ARCHITECT PLAN SPECIFICATION SECTION AND ARCHITECTURAL FINISH SCHEDULES TO DETERMINE PANT COLOR OF ALL EXPOSED FRONT OF HOUSE RACEWAY SYSTEMS.
5. DIVISION 26 CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO AND DURING INSTALLATION.
6. DIVISION 26 CONTRACTOR SHALL ENSURE THAT ALL CONDUIT ROUTED THROUGH OR NEAR CASEWORK SHALL NOT INTERFERE IN ANY WAY WITH THE INTENDED USE OF OR SERVICING OF EQUIPMENT OR COUNTERS.
7. DIVISION 26 CONTRACTOR SHALL NOT CUT, DRILL, OR IN ANY OTHER MANNER ALTER ANY STRUCTURAL MEMBER WITHOUT PRIOR WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.
8. DIVISION 26 CONTRACTOR SHALL, AFTER EXAMINATION OF ALL PLANS AND SPECIFICATIONS, INCLUDE ALL COSTS NECESSARY FOR ALTERATION OF, MODIFICATION OF, OR ADDITIONS TO THE ELECTRICAL SYSTEMS NECESSARY FOR A COMPLETE AND APPROVED INSTALLATION IN ALL ASPECTS. IT IS THE INTENT THAT ALL COSTS REQUIRED BE INCLUDED IN THE BID OF THIS TRADE. DIVISION 26 CONTRACTOR SHALL BASE THEIR PROPOSAL, AND BID UPON THE EQUIPMENT AS SCHEDULED OR SPECIFIED, USING THE MANUFACTURERS AND MODEL NUMBERS AS CALLED FOR IN THE SPECIFICATIONS AND SCHEDULED ON THE DRAWINGS. IF MORE THAN ONE MANUFACTURER OF EQUIPMENT IS SPECIFIED, ANY ONE OF THE MANUFACTURERS OF EQUIPMENT MAY BE USED IN THIS CONTRACTOR'S PROPOSAL.
9. DIVISION 26 CONTRACTOR TO NOTIFY ELECTRICAL ENGINEER, IN WRITING, OF ANY DISCREPANCIES FOUND BETWEEN THE ELECTRICAL PLANS AND OTHER ENGINEERING PLANS, ARCHITECTURAL PLANS, OR EXISTING CONDITIONS PRIOR TO FINAL BID PRICE COMMITMENT.
10. IN CASE OF DISPUTE OR DOUBT AS TO INTENT OF DRAWINGS OR SPECIFICATIONS, DIVISION 26 CONTRACTOR SHALL CONTACT ELECTRICAL ENGINEER AND OBTAIN WRITTEN CLARIFICATION PRIOR TO PROCEEDING WITH AND BID OR CONSTRUCTION SCOPES INVOLVED.
11. DIVISION 26 CONTRACTOR IS RESPONSIBLE FOR ORDERING ALL MATERIALS IN SUFFICIENT TIME TO AVOID DELAYING THE COMPLETION OF THE PROJECT. DELAY IN DELIVERIES SHALL NOT BE CONSIDERED A JUSTIFIABLE REASON FOR SUBMISSION OF SUBSTITUTE MATERIALS.
12. ALL ELECTRICAL DEVICES AND COVER PLATES SHALL BE PROVIDED PER THE COLOR SELECTED BY THE ARCHITECT/INTERIOR DESIGNER. THE GC SHALL BE RESPONSIBLE FOR ENSURING THAT THE TELECOMMUNICATION DEVICE COVER PLATES MATCH THE ELECTRICAL COVER PLATES WITH THE SAME AREA.
13. DIVISION 26 CONTRACTOR SHALL ASSIST LIGHTING DESIGNER/ARCHITECT/INTERIOR DESIGNER WITH THE PROCESS OF AIMING AND FOCUSING ALL LUMINAIRES. THIS PROCESS MAY INCLUDE WORKING OFF OF LIFTS AND WORKING DURING NIGHTTIME HOURS.
14. FRONT-OF-HOUSE EMERGENCY LIGHTING MAY NOT BE SHADEN TO DESIGNATE EMERGENCY LUMINAIRES. REFERENCE TO CIRCUITING LEGEND FOR INFORMATION REGARDING FRONT-OF-HOUSE LUMINAIRES. SEE LIGHTING SCHEDULE FOR EMERGENCY POWER.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR FIRESTOPPING ALL PENETRATIONS THROUGH FIRE-RESISTANCE-RATED WALL & HORIZONTAL ASSEMBLIES AND WEATHERPROOFING ALL PENETRATIONS THROUGH EXTERIOR WALLS OR ROOFS. FIRESTOP SYSTEMS SHALL BE APPROVED AND UL-LISTED, MEETING THE RATINGS & RATINGS REQUIREMENTS IN CHAPTER 7 OF THE BUILDING CODE. REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR APPLICABLE FIRESTOP OF SYSTEMS.

[illegible][illegible]

																							
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<p align="center">Package 1</p>																							
<p align="center">Issue for Bid/Issue for Permit</p>																							
<p align="center">LEGEND AND ABBREVIATIONS</p>																							
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- GENERAL NOTES:**
- SEE SHEET E000.001 FOR SYMBOLS, ABBREVIATIONS, AND ADDITIONAL GENERAL NOTES.
 - LIGHTING FIXTURE SYMBOLS INDICATE LOCATION ONLY AND ARE NOT REPRESENTATIVE OF SIZE OF THE FIXTURE.
 - WHERE EXISTING CONDUITS AND WIRINGS ARE TO REMAIN AND IN POOR CONDITION, REPLACE CONDUITS AND/OR WIRING.
 - ANY AND ALL EQUIPMENT SHOWN THAT ARE NOT BEING REMOVED SHALL BE PROTECTED IN PLACE.
- KEY NOTES**
- EXISTING LIGHT FIXTURE TO BE REMOVED AND REPLACED. LIGHT POLE TO REMAIN. EXISTING CONDUCTORS AND CONDUIT TO REMAIN.
 - EXISTING WALL MOUNTED LIGHT FIXTURE TO BE REMOVED AND REPLACED. EXISTING CONDUCTORS AND CONDUIT TO REMAIN.
 - EXISTING LINEAR LIGHTS TO REMAIN, AND BE PROTECTED IN PLACE, REPAIR, AND RELAMP AS REQUIRED.

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REGISTERED PROFESSIONAL ENGINEER
Matthew Schoepfer
No. E 21144
STATE OF CALIFORNIA
ESTABLISHED 1927

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REVISION SCHEDULE		
NO.	DESCRIPTION	DATE



Rescue Junior
San Diego, CA

Package 1

Issue for Bid/Issue for Permit

SITE DEMOLITION PLAN - LIGHTING

DATE	02/01/23	
DR	YWH	MAS
PGAV	64117-00	CLIENT
SHEET NUMBER	SEA	

E002.202

 $1^{\circ} = 20' - 0''$

201 PANEL EXISTING TO REMAIN AND BE PROTECTED IN PLACE

Ride Disclaimer:
Outlines, sketches, or references of use of a possible "Ride" or "Rides" or use of any "ride" terms such as "coaster," "merry-go-round," trade names, etc. on this drawing are for purpose of location, general identification, and adjacency only. Peckham, Guyton, Alberta, and Viets, Inc. and all engineers or companies that have drawn therein after referred to as Architect/Engineer hereby gives notice that the "Ride" however shown or referenced on this drawing is not in any way, shape, or form the creation or responsibility of the Architect/Engineer. Its design, structural support, manufacture, erection, approval, acceptance, operation, safety, maintenance, and all of its function, characteristics, or operation shall be the responsibility of the Architect/Engineer's work. Such Functions are to be performed by others engaged by the Owner for such purpose, or by Owner's personnel.

E002.211

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Autodesk Docs 64117-00 SANSD Rescue Junior 64117-00 SANSD Rescue Junior_EL_R02.rvt

1 SITE PLAN - LIGHTING

1" = 20'-0"

GENERAL NOTES:

- 1 SEE SHEET E000.001 FOR SYMBOLS, ABBREVIATIONS, AND ADDITIONAL GENERAL NOTES.
- 2 LIGHTING FIXTURE SYMBOLS INDICATE LOCATION ONLY AND ARE NOT REPRESENTATIVE OF SIZE OF THE FIXTURE.
- 3 ALL EXISTING LIGHTING IN THIS LAND TO REMAIN IF THEY ARE NOT SHOWN TO BE DEMOLISHED. IF ANY NEW SCOPE OF WORK INTERRUPTS A CIRCUIT, CONTRACTOR TO REPAIR TO ENSURE CONTINUITY OF ALL EXISTING CIRCUITS AT COMPLETION OF PROJECT.
- 4 ALL WIRING TO BE 2#12/125,3/4" UNLESS NOTED OTHERWISE.

KEY NOTES

- 401 INSTALL NEW YORK MOUNTED FIXTURE TO EXISTING POLE USING EXISTING CONNECTIONS FOR YORK MOUNTED FIXTURES REMOVED. IF CONDUCTORS CANNOT BE RE-USED, REPLACE AS REQUIRED. PROVIDE NEW CONDUCTORS, CONDUITS AND BREAKERS AS NEEDED TO POWER NEW LIGHTS.
- 402 INSTALL NEW LIGHT FIXTURE TO EXISTING JUNCTION BOX. REUSE EXISTING CONDUCTORS FOR NEW NEW LIGHTS.
- 403 EXTEND EXISTING PLANTER CIRCUIT TO NEW LIGHT FIXTURE AS SHOWN. FIELD COORDINATE EXACT LOCATION TO INTERCEPT THIS EXISTING CIRCUIT. FIXTURE PLACEMENT TO BE COORDINATED WITH SIGNAGE LOCATION. FIXTURE TO BE AWED IN FRONT OF SIGNAGE.
- 405 PROVIDE NEW 'A1' FIXTURES. MOUNT FIXTURE ON BOAT MAST. FIXTURE TO BE MOUNTED AT LEAST 10' ABOVE TOP OF BOAT DECK. ROUTE CONDUITS THROUGH MAST POLE IF POSSIBLE. IF NOT POSSIBLE, ROUTE DOWN ONE SIDE IN CONDUIT WHICH WILL BE PAINTED TO MATCH MAST POLE. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH IN.
- 407 PROVIDE NEW 'L1' FIXTURE. MOUNT CHANNEL AT 18" AFF TO HANDRAIL. PAINT CHANNEL TO MATCH HANDRAIL PRIOR TO INSTALLATION.
- 408 EXISTING DOUBLE SECTION PANEL 'LL1' IS LOCATED INSIDE OF BOAT.
- 409 PROVIDE TIME CLOCK MANUFACTURED BY INTERMATIC MODEL# ET2805CP.
- 410 CIRCUIT TIME CLOCK TO UNSWITCHED PORTION OF EXISTING LIGHTING CIRCUIT IN CONTROL BOOTH.
- 411 CIRCUIT FIXTURES TO TIME CLOCK. MOUNT FIXTURE TO RIDE BOOTH FAÇADE PER CREATIVE DIRECTION.
- 412 PROVIDE NEW LIGHT FIXTURE AND ARM ON EXISTING POLE. IF EXISTING POLE DOES NOT LINE UP WITH NEW FIXTURE ARM, PROVIDE NEW POLE. POLE BASES SHOULD BE ABLE TO BE REUSED BUT IF MANUFACTURER HAS CHANGED BOLT PATTERNS, REPLACE BASE. INTERCEPT CONDUIT AND CONDUCTORS FOR THIS POLE TO ALLOW RECONFIGURING AS REQUIRED. MAINTAIN CONTINUITY OF OTHER LIGHTS NOT BEING RECONFIGURED.
- 413 PROVIDE NEW LIGHT FIXTURE AND ARM ON NEW POLE BASE. REFER TO DETAIL 2 ON SHEET E999.300 FOR ADDITIONAL INFORMATION. FINAL LOCATION TO BE COORDINATED WITH OWNER PRIOR TO INSTALLATION.
- 414 PROVIDE LIGHTING INVERTER MANUFACTURED BYMYERS MODEL# LV-S-R-1-82008. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH IN.
- 415 PROVIDE 11"x18" HANDHOLE IN PLANTER. REFER TO DETAIL 1 ON SHEET E999.300 FOR ADDITIONAL INFORMATION.
- 416 CONDUIT TO BE ROUTED THROUGH BOAT AND THEN MOUNTED UNDER BRIDGE WALKWAY. COORDINATE EXACT LOCATION WITH OWNERS REPRESENTATIVE PRIOR TO ROUGH IN.
- 417 PROVIDE INTERMATIC TIMECLOCK ET8415CR TO ALLOW FOR INDIVIDUAL CONTROL OF MAST, BRIDGE AND PATHWAY LIGHTING.
- 418 8#12/125,1"1"

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REVISION SCHEDULE		
NO.	DESCRIPTION	DATE



Rescue Junior
San Diego, CA

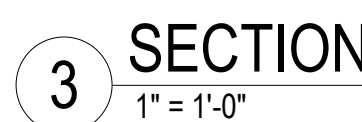
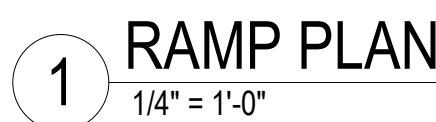
Package 1

Issue for Bid/Issue for Permit

SITE PLAN - LIGHTING

DATE	02/01/23	
DR	YWH	MAS
PGAV	64117-00	CLIENT
SHEET NUMBER	SEA	

E002.212



STRUCTURAL GENERAL NOTES

TYPICAL DETAILS AND THESE NOTES SHALL APPLY UNLESS NOTED OTHERWISE ON THE DRAWINGS OR PROJECT SPECIFICATIONS.

USE OF DRAWINGS

USE OF DRAWINGS AND COORDINATION: USE STRUCTURAL DRAWINGS IN CONJUNCTION WITH SPECIFICATIONS, EXISTING AND OTHER DRAWINGS FOR BIDDING AND CONSTRUCTION. COORDINATE WORK AND VERIFY DIMENSIONS AND CONDITIONS FOR COMPATIBILITY BETWEEN TRADES. NOTIFY OWNER'S PROJECT MANAGER OF DISCREPANCIES PRIOR TO CONSTRUCTION.

DRAWING SCALE: NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS - DO NOT SCALE DRAWINGS.

DIMENSION VERIFICATION: DIMENSIONS NOTED PLUS OR MINUS (+/-) INDICATE UN-VERIFIED DIMENSIONS THAT REQUIRE CONFIRMATION OR DETERMINATION BY THE CONTRACTOR PRIOR TO FABRICATION AND CONSTRUCTION. NOTIFY OWNER'S PROJECT MANAGER IMMEDIATELY OF CONFLICTS OR VARIATIONS FROM INDICATED DIMENSIONS.

NOTE CONFLICTS: IF ANY STRUCTURAL NOTES ARE IN CONFLICT WITH OTHER DRAWINGS OR THE SPECIFICATIONS, USE THE MOST STRINGENT REQUIREMENT FOR BIDDING AND CONSTRUCTING THE WORK.

EXISTING CONDITIONS: INFORMATION SHOWN ON THE DRAWINGS RELATED TO EXISTING CONDITIONS REPRESENTS THE PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY.

VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES, AND CONDITIONS IN THE FIELD PRIOR TO COMMENCING ANY WORK. REPORT CONDITIONS THAT CONFLICT WITH THE CONTRACT DOCUMENTS TO THE OWNER'S PROJECT MANAGER. DO NOT DEVIATE FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN DIRECTION FROM THE OWNER'S PROJECT MANAGER.

DESIGN AND CONSTRUCTION CRITERIA

GOVERNING BUILDING CODE: DESIGN AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA EXISTING BUILDING CODE (2019). THE PUBLICATIONS LISTED BELOW ARE THE GOVERNING CODES AND STANDARDS REFERENCED BY THE BUILDING CODE. IN CASE OF CONFLICTING REQUIREMENTS, THE BUILDING CODE SHALL GOVERN.

PRIMARY REFERENCE STANDARDS: (USE VERSION REFERENCED BY GOVERNING CODE. IF NOT REFERENCED BY GOVERNING CODE, USE LATEST EDITION)

ASCE MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7

ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS

ICC INTERNATIONAL CODE COUNCIL

ACI 315 GUIDE TO PRESENTING REINFORCING STEEL DESIGN DETAILS

ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE

AWS AMERICAN WELDING SOCIETY

MEANS AND METHODS

MEANS AND METHODS: THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION MEANS AND THE METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES REQUIRED FOR SAFELY CONSTRUCTING ALL WORK.

JOBSITE SAFETY: THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING A SAFE PLACE TO WORK AND FOR MEETING THE REQUIREMENTS OF ALL APPLICABLE JURISDICTIONS. EXECUTE WORK IN A MANNER THAT PROVIDES FOR THE SAFETY OF PERSONS AND ADJACENT PROPERTY AGAINST INJURY AND DAMAGE DUE TO FALLING DEBRIS AND OTHER HAZARDS IN CONNECTION WITH CONSTRUCTING THE WORK.

SUBMITTALS

SHOP DRAWINGS: SUBMIT SHOP DRAWINGS FOR REVIEW AND ACCEPTANCE BY THE OWNER'S PROJECT MANAGER AND ENGINEER-OF-RECORD PRIOR TO ANY FABRICATION OR CONSTRUCTION. DIMENSION AND QUANTITY VERIFICATION ARE THE CONTRACTOR'S RESPONSIBILITIES AND ARE NOT REVIEWED BY THE ENGINEER OF RECORD. THE CONTRACTOR SHALL REVIEW AND STAMP DRAWINGS PRIOR TO REVIEW BY THE ENGINEER OF RECORD. IF DEVIATIONS, DISCREPANCIES, OR CONFLICTS BETWEEN SHOP DRAWING SUBMITTALS AND THE CONTRACT DOCUMENTS ARE DISCOVERED, EITHER PRIOR TO OR AFTER THE ENGINEER PROCESSES THE SHOP DRAWING SUBMITTALS, THE DESIGN DRAWINGS AND SPECIFICATIONS SHALL CONTROL AND SHALL BE FOLLOWED.

REQUIRED SUBMITTALS:
REQUIRED SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

- EPOXY ADHESIVES
- CONCRETE MIX DESIGN
- REINFORCING BARS
- DECORATIVE CONCRETE SURFACE SAMPLE
- OTHERS PER SPECIFICATIONS

SUBMITTAL ACCEPTANCE: FOLLOWING ACCEPTANCE BY THE OWNER'S PROJECT MANAGER AND ENGINEER AND PRIOR TO FABRICATION, ADDITIONAL TIME FOR REVIEW AND ACCEPTANCE OF SUBMITTAL BY THE BUILDING OFFICIAL IS REQUIRED AND SHALL BE IDENTIFIED AND ALLOWED FOR IN THE CONTRACTOR'S SCHEDULE.

SUBSTITUTIONS: SUBMIT SUBSTITUTION REQUESTS PER THE PROCEDURES IN THE SPECIFICATIONS WITH APPLICABLE ICC REPORTS TO THE OWNER'S PROJECT MANAGER AND STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO DETAILING, FABRICATION AND ERECTION. ADDITIONAL ENGINEERING CALCULATIONS AND DETAILS, PROVIDED BY A STRUCTURAL ENGINEER LICENSED IN THE PROJECT SITE STATE, MAY BE REQUIRED OF THE CONTRACTOR FOR SUBSTITUTIONS THAT ARE NOT SIMILAR TO THE SPECIFIED PRODUCTS AND CONFIGURATION.

CONCRETE

REFERENCE STANDARDS: (USE VERSION REFERENCED BY GOVERNING CODE. IF NOT REFERENCED BY GOVERNING CODE, USE LATEST EDITION)

ACI 318 AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE

ACI 350 AMERICAN CONCRETE INSTITUTE, CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURE

AWS AMERICAN WELDING SOCIETY, STRUCTURAL WELDING CODE - REINFORCING STEEL, AWS D1.4

REINFORCING STEEL MATERIALS:

DEFORMED BARS ASTM A615, GRADE 60

REINFORCING STEEL DETAILING: REINFORCING STEEL SHALL BE SUPPORTED AS SPECIFIED BY THE PROJECT SPECIFICATIONS AND THE CRSI MANUAL OF STANDARD PRACTICE. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH ACI 315 - DETAILS AND DETAILING OF CONCRETE REINFORCEMENT.

CONCRETE PROTECTION: COVER FOR REINFORCING STEEL SHALL BE 2 1/2" AT ALL CONCRETE FACES, UON.

ADHESIVE ANCHORS AND EPOXIED REINFORCING BARS: PLACEMENT AND CURING SHALL BE CONDUCTED WITH CONCRETE AND AIR TEMPERATURES ABOVE 50 DEGREES. APPLY EPOXY ONLY TO CLEAN, DRY CONCRETE. PROVIDE POSITIVE PROTECTION SO DOWELS ARE NOT DISTURBED DURING THE CURING PERIOD.

STAINLESS STEEL ADHESIVE ANCHORS AND REINFORCING BARS, WHERE CALLED OUT, SHALL BE EPOXIED INTO CONCRETE WITH HILTI HY-200 ADHESIVE, OR APPROVED EQUIVALENT. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH ICC REPORT ESR-3187. ADHESIVE ANCHOR RODS SHALL BE ASTM F593 TYPE 316 STAINLESS STEEL THREADED RODS, OR APPROVED EQUIVALENT.

STAINLESS STEEL ADHESIVE ANCHORS AND REINFORCING BARS, WHERE CALLED OUT, SHALL BE EPOXIED INTO CONCRETE MASONRY UNITS WITH HILTI HY 270 ADHESIVE, OR APPROVED EQUIVALENT. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH ICC REPORT ESR-4143. ADHESIVE ANCHOR RODS SHALL BE ASTM F593 TYPE 316 STAINLESS STEEL THREADED RODS, OR APPROVED EQUIVALENT.

POST-INSTALLED DRILLING: HOLES FOR INSTALLING REINFORCING BARS, BOLTS, THREADED RODS AND INSERTS INTO CONCRETE SHALL BE DRILLED BY THE ICC APPROVED DRILLING METHOD FOR THE ANCHOR. CHIP AWAY A SUFFICIENT QUANTITY OF CONCRETE COVER TO LOCATE EXISTING REINFORCING PRIOR TO DRILLING. DO NOT CUT EXISTING REINFORCING.

CONCRETE MIX DESIGNS						
AREA	MIN F _c (PSI), 28 DAYS	MAX W/C	ENTRAINED AIR	FLY ASH	MAXIMUM AGGREGATE	EXPOSURE CLASS
ALL CONCRETE	4,000	0.40	-	25-30%	3/4"	W1

- NOTES:
- FORMULATE ALL CONCRETE TO HAVE LOW SHRINKAGE, LOW PERMEABILITY, AND A HIGH LEVEL OF CORROSION RESISTANCE THAT WILL PROTECT REBAR AND OTHER EMBEDDED METALS.
 - CORROSION INHIBITOR ADMIXTURE IS REQUIRED WITH DOSAGE AS REQUIRED TO PROVIDE 9.9 lbs/CY CHLORIDE PROTECTION MINIMUM.

SPECIAL INSPECTIONS

SPECIAL INSPECTIONS: REFER TO IBC TABLE 1705.3 FOR REQUIRED SPECIAL INSPECTIONS THAT SHALL BE PERFORMED BY A TESTING AGENCY CERTIFIED TO PROVIDE THE REQUIRED INSPECTIONS IN THE STATE OF CALIFORNIA.

IBC TABLE 1705.3 REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION					
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD	IBC REFERENCE	APPLICABLE TO PROJECT?
1. INSPECT REINFORCING STEEL AND VERIFY PLACEMENT.	-	X	ACI 318: CH. 20, 26.2, 26.3, 26.6.1-26.6.3	1908.4	YES
2. REINFORCING BAR WELDING: a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706. b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16", AND c. INSPECT ALL OTHER WELDS.	- - X	X - -	AWS D1.4 ACI 318: 26.6.4	-	NO
3. INSPECT ANCHORS CAST IN CONCRETE.	-	X	ACI 318: 17.8.2	-	YES
4. INSPECTION OF ANCHORS POST INSTALLED IN HARDENED CONCRETE MEMBERS: a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.	X - -	- X -	ACI 318: 17.8.2.4 ACI 318: 17.8.2	-	YES
5. VERIFYING USE OF REQUIRED DESIGN MIX.	-	X	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3	YES
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C172 ASTM C31 ACI 318: 26.4, 26.12	1908.10	YES
7. INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318: 26.5	1908.6, 1908.7, 1908.8	YES
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318: 26.5.3 - 26.5.5	1908.9	YES
9. INSPECTION OF PRESTRESSED CONCRETE: a. APPLICATION OF PRESTRESSING FORCES; AND b. GROUTING OF BONDED PRESTRESSING TENDONS.	X X	- -	ACI 318: 26.10	-	NO
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	-	X	ACI 318: 26.8	-	NO
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS.	-	X	ACI 318: 26.11.2	-	YES
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318: 26.11.1.2(b)	-	YES

TABLE NOTES:

- b. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 OF ACI 318 OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

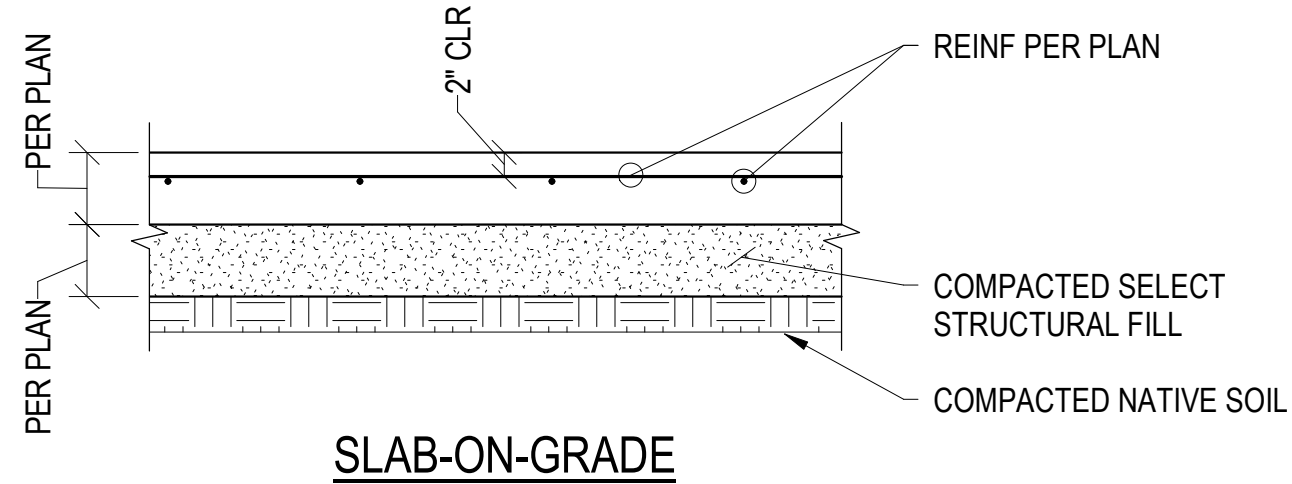
SPLICE AND DEVELOPMENT LENGTHS BASED ON ACI 318-14							
BAR SIZE	TENSION LAP LENGTH, L _L		TENSION DEV LENGTH, L _d		COMP LAP LENGTH, L _{os}	COMP DEV LENGTH, L _{cd}	STANDARD HOOK LENGTH, L _{ah}
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS			
CLASS	B	B					
#3	25	20	20	15	12	8	7
#4	33	25	25	19	15	9	8
#5	40	31	31	24	19	12	10
#6	48	38	38	29	23	14	14
#7	70	55	55	42	26	17	17
#8	81	62	62	48	30	19	19
#9	91	70	70	54	34	21	21
#10	103	79	79	61	38	24	24
#11	113	87	87	67	42	27	27

- NOTES:
- USE THE LENGTHS IN THESE SCHEDULES, UNLESS OTHERWISE NOTED. ALL VALUES IN INCHES.
 - f_c = PER GENERAL NOTES
 - F_y = 60,000 PSI
 - LAP SPLICES SHALL BE 'CLASS B', UNLESS OTHERWISE NOTED ON PLANS.
 - A TOP BAR IS A HORIZONTAL BAR WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW IT.
 - MULTIPLY LENGTHS BY 1.5 IF MIN CENTER-TO-CENTER SPACING < 3x BAR DIAMETERS OR MIN CLEAR COVER < 1 BAR DIAMETER.
 - STAGGER ADJACENT LAP SPLICES BY THE GREATER OF 40d OR 24".

ASSUMPTIONS:
CONCRETE IS NORMAL WEIGHT.
REINFORCEMENT IS UNCOATED OR ZINC-COATED (GALVANIZED).
CONFINING REINFORCEMENT DOES NOT EXIST FOR MODIFICATION FACTOR.

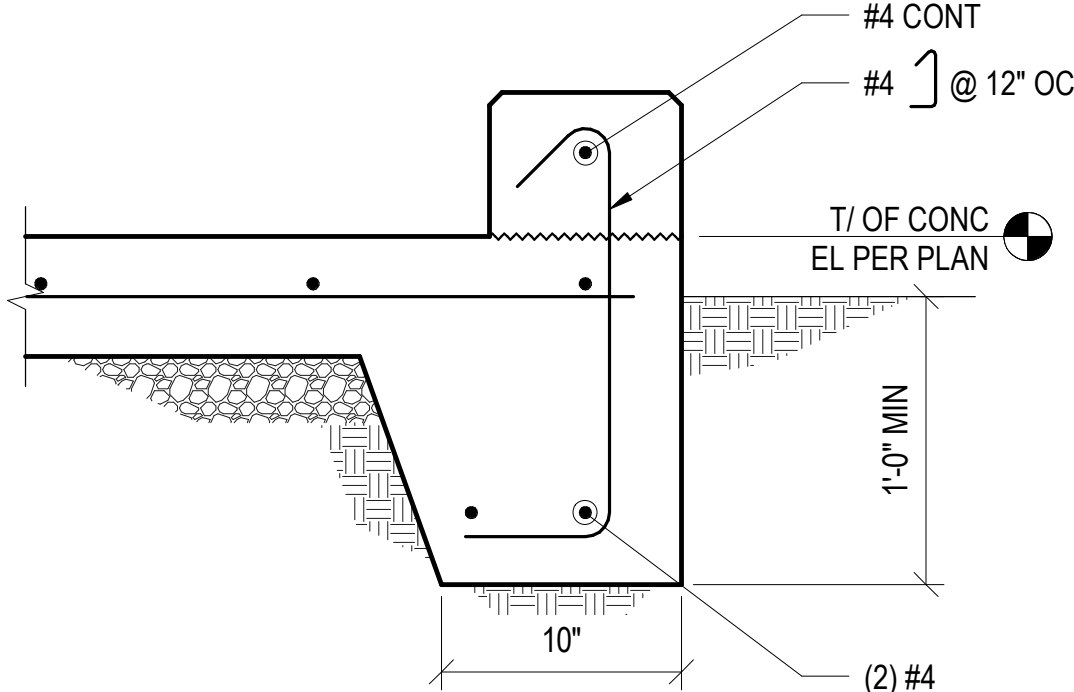
1 CONCRETE DEVELOPMENT AND SPLICE LENGTH

SCALE: NTS



3 TYPICAL SLAB-ON-GRADE DETAILS

SCALE: NTS

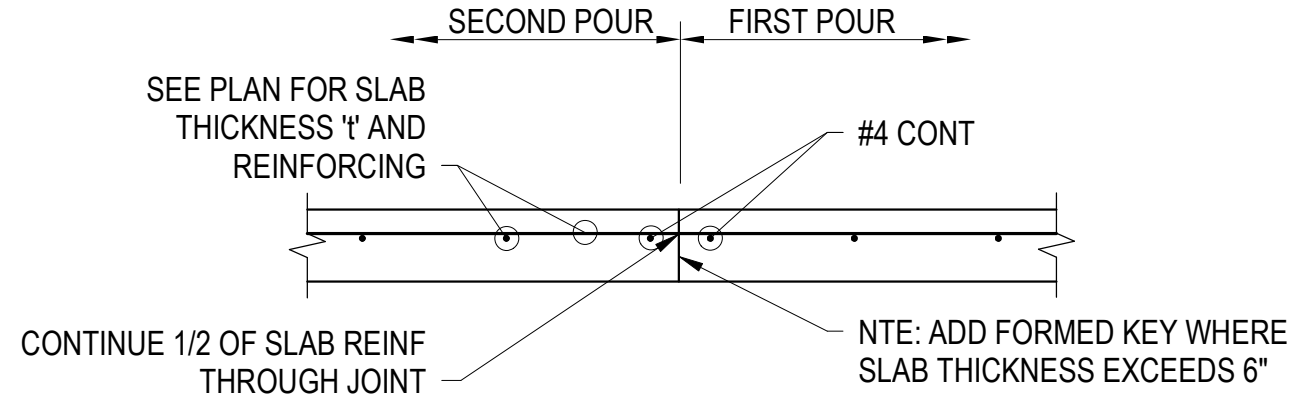
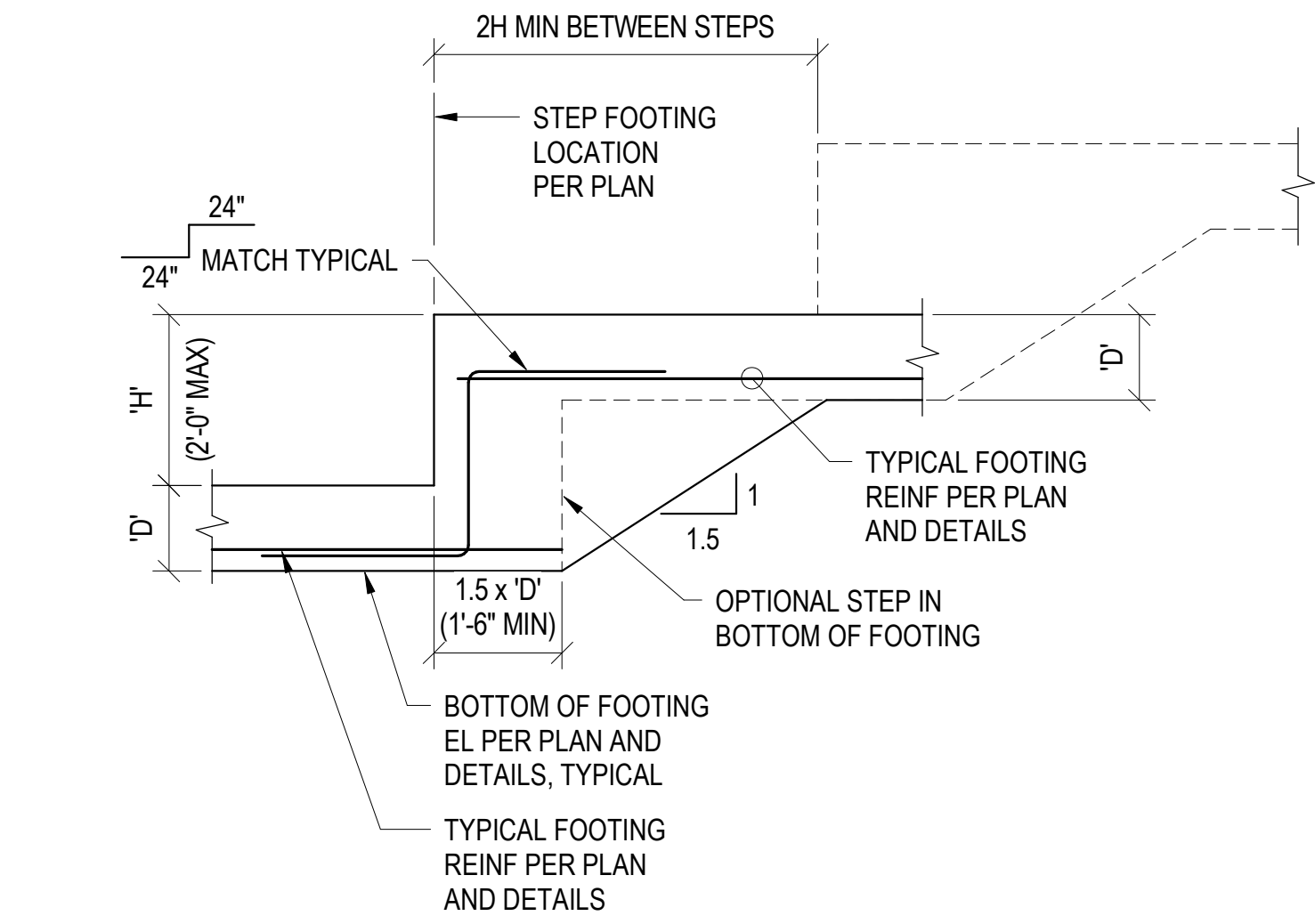


4 TYP TURNED-DOWN SLAB DETAIL

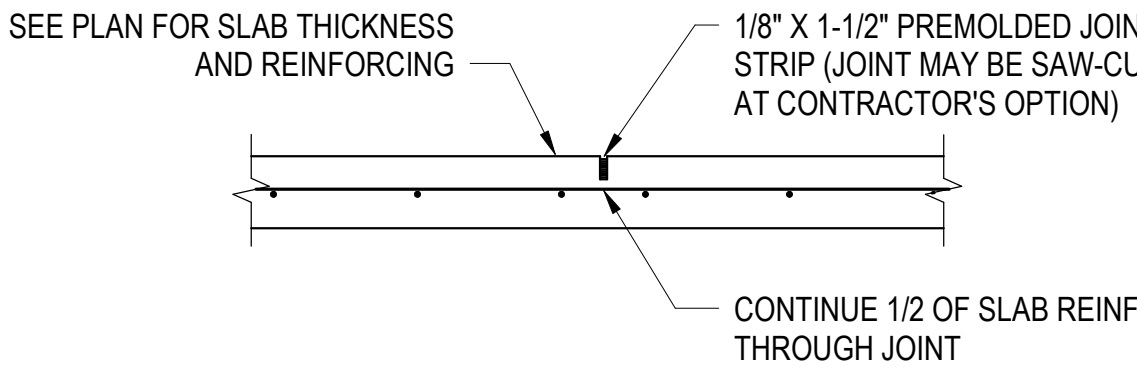
1 1/2" = 1'-0"

2 TYPICAL STEPPED FOOTING

SCALE: NTS



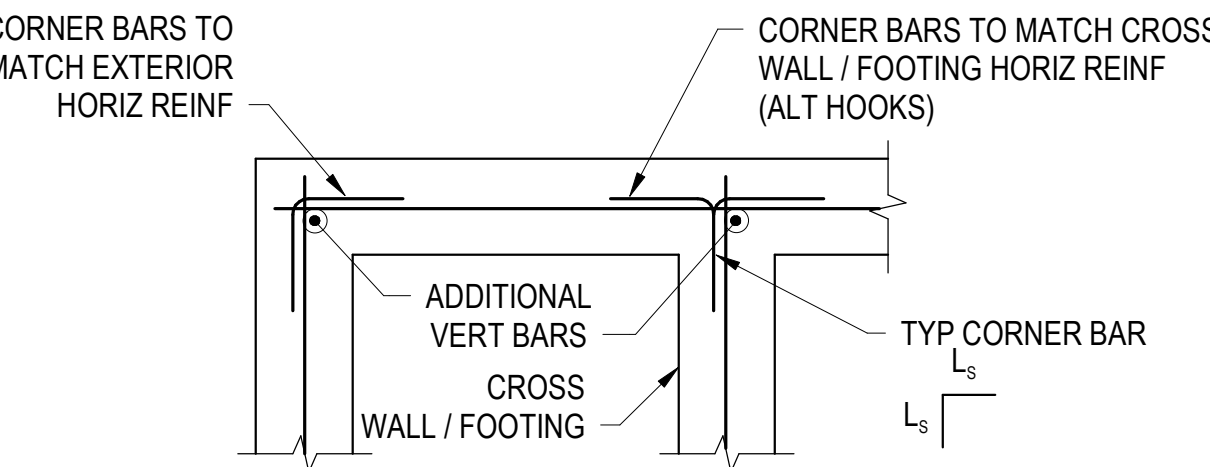
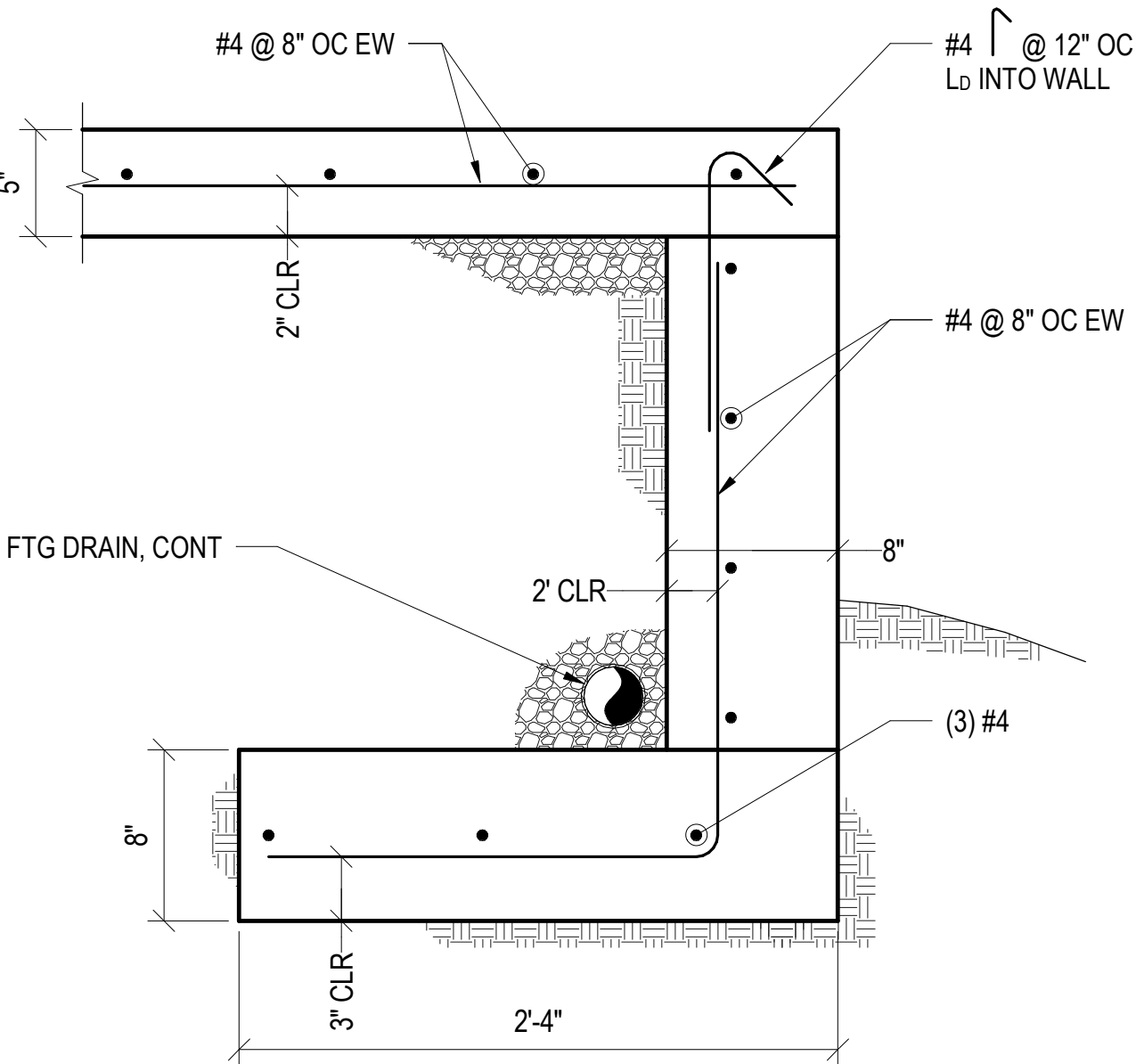
CONSTRUCTION JOINT



CONTROL JOINT

5 TYP RETAINING WALL

1 1/2" = 1'-0"



SINGLE CURTAIN

6 TYPICAL CONCRETE WALL AND FOOTING CORNER BARS

SCALE: NTS

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www.mlaengineering.com

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Role Disclaimer:
Quotes, estimates, or references to a possible "bid" or "offer" or use of any "bid" terms such as "lowest", "lowest-priced", "trade name", etc. on this drawing are for purposes of location, general identification, and authority only. The theming design, code compliance, manufacture, erection, approval, acceptance, operation, safety, maintenance, and all of its function, characteristics, or performance are not a part of the Architect/Engineer's work. Such functions are to be performed to ensure usability by the Owner for such purposes, or by Owner's personnel.

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

SeaWorld SAN DIEGO

Rescue Junior
San Diego, CA

DESIGN DEVELOPMENT

GENERAL STRUCTURAL NOTES

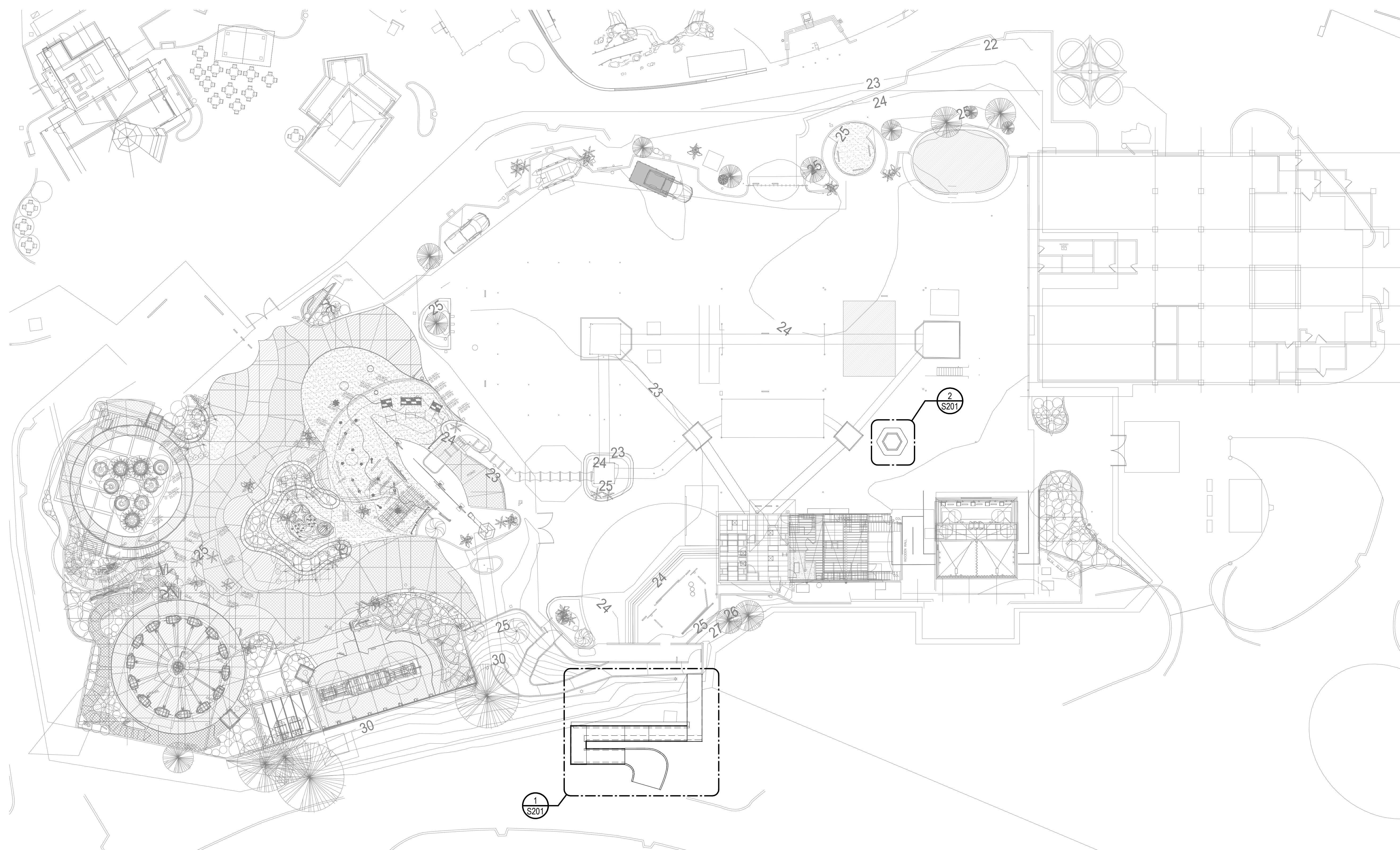
DATE	05/13/21
DR Designer	OK Checker
M.A. 2023.101	CLIENT
SHEET NUMBER	

S010

REFERENCE ONLY

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1 OVERALL SITE PLAN
1" = 20'-0"

[illegible]

Rescue Junior
San Diego, CA

DESIGN DEVELOPMENT

SITE PLAN

DATE _____

DR	CK
Designer	Checker

2023.101	
SHEET NUMBER	

S101

REFERENCE ONLY

