



# THE PORT OF LOS ANGELES

ENGINEERING DIVISION

# WILMINGTON WATERFRONT PROMENADE AND BUILDING DEMOLITION

WILMINGTON WATERFRONT PROMENADE.....1-3192

WILMINGTON WATERFRONT BUILDING DEMOLITION.....1-3379

SPECIFICATION NO. 2780

**TRANSMITTAL 3**

3/15/21	HAC	REVISED SHEETS: T-01 1-3192 T-02 THRU T-04, R-05, R-06, R-07, RD-0.2, RD-03, RD-04, RD-06, TC-00, WL-02, WL-04, LD-01, LD-06, SD-02, SD-05, SD-11, SD-13, SD-14, SS-02, SS-03, SS-04, LP-04, SO-04, IR-04, IR-11, E-04, E-07, E-11, E-13, E-15, E-18, E-19, E-20, E-21, E-22	HAZ	CMA
5/27/20	HAC	SHEETS: T-01, PH-00 THRU PH-02, 1-3192 T-02 THRU T-04, X-04, PD-02, PD-04 THRU PD-06, PD-08, PD-10 THRU PD-14, FL-06, RS-04, RS-05, RS-08 THRU RS-11, RS-13, LM-01, LD-16, E-20, 1-3379 T-02.	HAZ	CMA

5/08/20	HAC	ADDED SHEET 1-3192 SN-02, REVISED SHEETS: T-01, 1-3192 T-02 THRU T-05, GN-02, R-00A, R-03, S-00, S-07 THRU S-09, X-01 THRU X-03, RS-01 THRU RS-13, WS-01 THRU WS-04, RD-00, RD-0.2, RD-01 THRU RD-04, TC-00, TC-01, SP-05, LM-00 THRU LM-05, LD-01, LD-06, LD-07, LD-13, LD-15, LD-17, LD-22, LD-26, LD-29, LD-31, LD-40, LD-43, SD-01 THRU SD-05, SD-07, SD-08, W-01, W-02, W-07, LP-02, LP-07, SB-3.0, SB-7.0, SB-7.1	HAZ	CMA
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4/13/20	HAC	REVISED SHEETS: T-01, 1-3192 T-02 THRU T-04, R-03, S-01 THRU S-06, RD-00, RD-0.2, RD-01, TC-01, LM-03, LD-24, LD-30, W-02, SS-02, SS-03, LP-04, SO-00 THRU SO-02, SO-04 THRU SO-07, E-13, E-15, SA1-11 THRU SA1-32, SA2-20 THRU SA2-32, 1-3379 T-02, R-05.	HAZ	CMA
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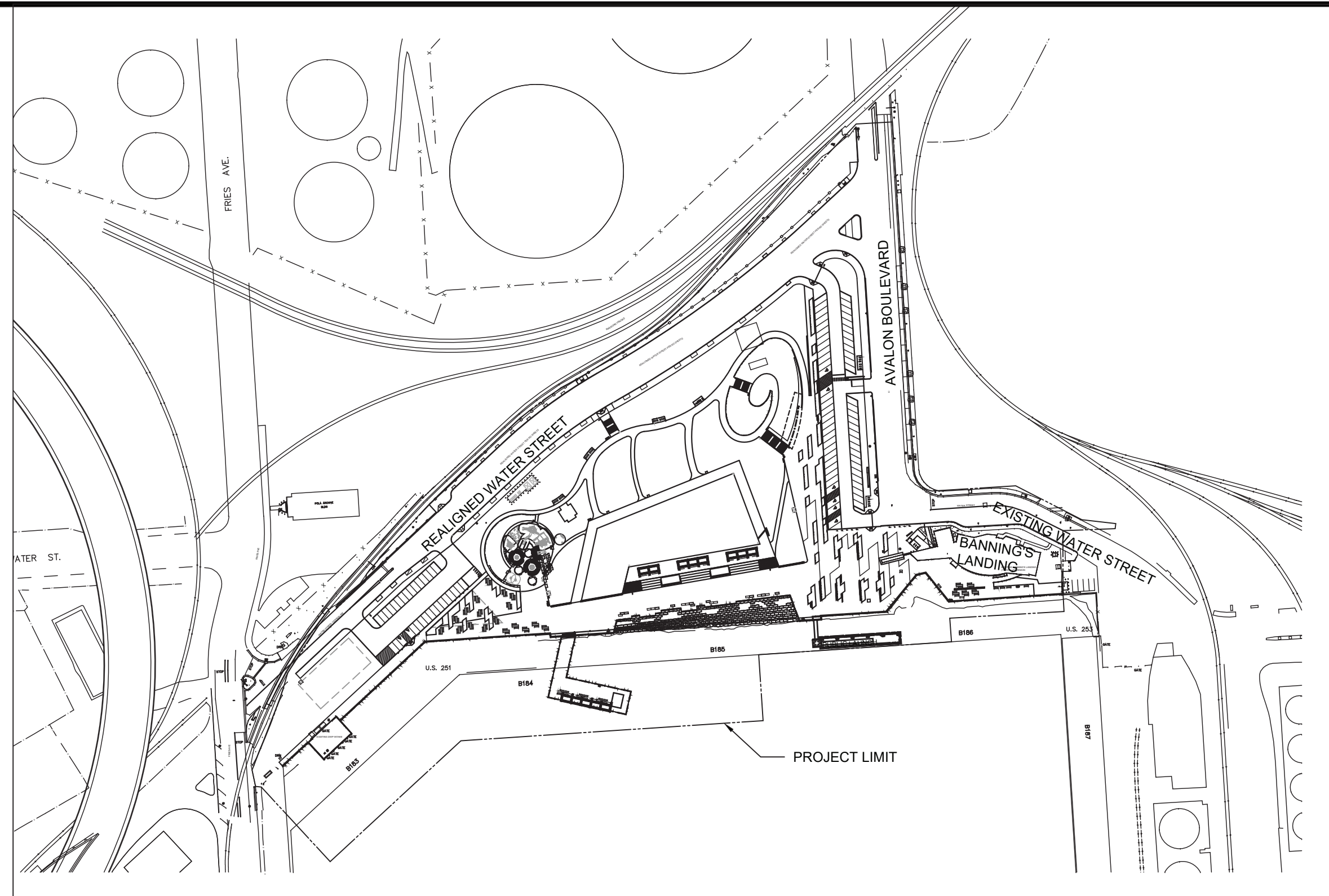
3/18/20	HAC	REVISED SHEETS: 1-3192 T-01 THRU T-05, PH-00, R-02, R-03, R-05, R-06, X-04, RD-0.2, RD-04, C-12, LM-02, LM-03, LD-06, LD-13, LD-14, LD-24, EG-80, EG-81, EG-90, SD-11 THRU SD-14, LP-01, LP-09, SO-01, IR-01, E-12, BP-3.6, BP-3.8. ADDED SHEETS: 1-3192 DW-15, AE-801. ADDED REFERENCE DWG: 8-531, 45601.	HAZ	CMA
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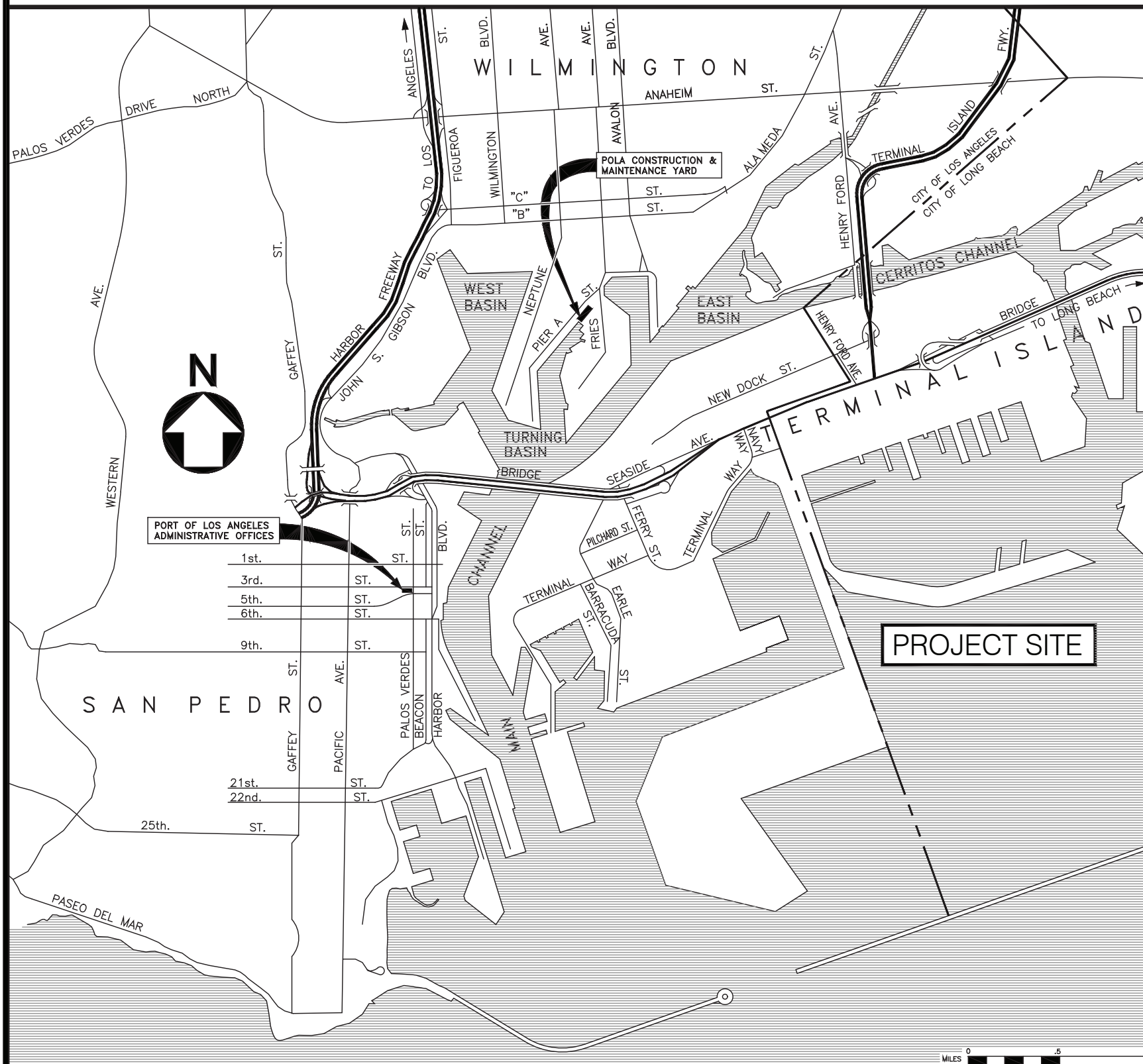
CONSTRUCTION DIVISION		TRANS	R/W	ARCH	SPECS	CHIEF OF DESIGN
INSPECTION	SURVEY	GM	DRR	AS	SA	Sue La
		CIVIL	ELEC	PR. MNGR	ASSISTANT CHIEF HARBOR ENGINEER	
		GYS	SAH	HAZ	D. D.	
		STRUCT	MECH	CAD MNGR	2-18-20	
		AL	AFN		DATE	
CHIEF HARBOR ENGINEER - CONST. DIV.					CHIEF HARBOR ENGINEER	

WILMINGTON WATERFRONT PROMENADE AND BUILDING DEMOLITION	
COVER SHEET	
<p>THE PORT OF LOS ANGELES ENGINEERING DIVISION 425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309</p>	DRAWING NUMBER 1-3192, 1-3379 SHEET NUMBER T-01

DWG: N:\add\project\1-3192 Wilmington Waterfront Promenade\Production\Title\1-3192 T-01.dwg USER: CISENEROSH  
 DATE: Mar 18 2021 10:58am XREFS: 1-3192 SUBMITTAL STAMP IMAGES: P:\DWG\1-3192.dwg



1T-02 SITE PLAN  
T-02 SCALE: 1" = 150'



VICINITY MAP

REFERENCING SYSTEM

- MAIN PLAN & ELEVATIONS**  

 DETAIL NUMBER OF PLAN OR ELEVATION NUMBERED CONSECUTIVELY ON EACH SHEET. SHEET NUMBER WHERE PLAN OR ELEVATION IS DRAWN.
- MAIN DETAIL, FLAG-SECTIONS & DETAILS**  

 DETAIL NUMBER OF SECTION OR ELEVATION NUMBERED CONSECUTIVELY ON EACH SHEET. SHEET NUMBER WHERE SECTION OR ELEVATION IS DRAWN.
- SUB-DETAIL, FLAG-INTERIOR, ELEVATIONS & DETAILS**  

 SUB-DETAIL NUMBER OF INTERIOR ELEVATION OR DETAIL CONSECUTIVELY LISTED ALPHABETICALLY.
- REFERENCE FLAG**  

 DETAIL & SHEET NUMBER WHERE DETAIL, SECTION DETAIL OR ELEVATION IS DRAWN.
- SECTION FLAG**  

 ARROW INDICATES DIRECTION OF CUT-VIEW.
- REVISION SYMBOL**  

 REVISION NUMBER (ALPHABETIC DESIGNATION-PRIOR TO BID OPENING. NUMERIC DESIGNATION APPROVED DURING CONSTRUCTION). CLOUDED AREA DESIGNATES REVISED AREA.

PORT OF LOS ANGELES  
1-3192  
WILMINGTON WATERFRONT  
PROMENADE

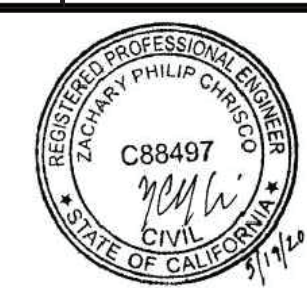
SPECIFICATION NO. 2780

INDEX TO DRAWINGS

DRAWING NUMBER	TITLE	DRAWING NUMBER	TITLE
1-3192, 1-3379 T-01	COVER SHEET	1-3192 R-03	REMOVALS PLAN - AREA 3
1-3192 T-02	INDEX TO DRAWINGS, VICINITY MAP, AND REFERENCING SYSTEM	1-3192 R-04	REMOVALS PLAN - AREA 4
1-3192 T-03	INDEX TO DRAWINGS	1-3192 R-05	REMOVALS PLAN - AREA 5
1-3192 T-04	INDEX TO DRAWINGS	1-3192 R-06	REMOVALS PLAN - AREA 6
1-3192 T-05	INDEX TO DRAWINGS	1-3192 R-07	REMOVALS POINT TABLE - COORDINATES
		1-3192 R-08	REMOVALS POINT TABLE - COORDINATES
1-3192 GN-01	GENERAL NOTES AND ABBREVIATIONS		
1-3192 GN-02	CONSTRUCTION NOTES	1-3192 S-00	SITE STRUCTURAL PLAN AND NOTES
		1-3192 S-01	SITE STRUCTURAL PLAN - AREA 1
1-3192 CC-01	HORIZONTAL COORDINATE CONTROL PLAN	1-3192 S-02	SITE STRUCTURAL PLAN - AREA 2
1-3192 CC-02	SITE PLAN	1-3192 S-03	SITE STRUCTURAL PLAN - AREA 3
1-3192 CC-03	EMERGENCY VEHICLE ACCESS PLAN	1-3192 S-04	SITE STRUCTURAL PLAN - AREA 4
1-3192 CC-04	SITE PEDESTRIAN ACCESS PLAN	1-3192 S-05	SITE STRUCTURAL PLAN - AREA 5
1-3192 CC-05	BICYCLE ACCESS PLAN	1-3192 S-06	SITE STRUCTURAL PLAN - AREA 6
		1-3192 S-07	SITE STRUCTURAL PLAN - SHADE CANOPY
1-3192, 1-3379 PH-00	MILESTONE SCHEDULE AND NOTES	1-3192 S-08	SITE STRUCTURAL DETAILS
1-3192, 1-3379 PH-01	MILESTONE PLAN	1-3192 S-09	SITE STRUCTURAL DETAILS
1-3192, 1-3379 PH-02	MILESTONE PLAN	1-3192 S-10	SOILS REPORT APPROVAL LETTER
1-3192 PH-03	SURCHARGE PLAN		
1-3192 PH-04	SURCHARGE SECTIONS	1-3192 SN-01	STRUCTURAL NOTES
1-3192 PH-05	FIELD OFFICE PLAN	1-3192 SN-02	STRUCTURAL NOTES
		1-3192 X-01	REVTMENT RECONSTRUCTION PLAN AND NOTES
1-3192 U-00	EXISTING UTILITY SITE PLAN AND NOTES	1-3192 X-02	REVTMENT RECONSTRUCTION SECTIONS - 1
1-3192 U-01	EXISTING UTILITY PLAN - AREA 1	1-3192 X-03	REVTMENT RECONSTRUCTION SECTIONS - 2
1-3192 U-02	EXISTING UTILITY PLAN - AREA 2	1-3192 X-04	SLOPE REVTMENT PLAN AND SECTIONS
1-3192 U-03	EXISTING UTILITY PLAN - AREA 3		
1-3192 U-04	EXISTING UTILITY PLAN - AREA 4	1-3192 PD-01	PROMENADE PIER SITE PLAN
1-3192 U-05	EXISTING UTILITY PLAN - AREA 5	1-3192 PD-02	PROMENADE PIER DECK FRAMING PLAN
1-3192 U-06	EXISTING UTILITY PLAN - AREA 6	1-3192 PD-03	PROMENADE PIER PILE AND PI
		1-3192 PD-04	APPROACH PIER TYPICAL CROSS SECTION
1-3192 R-00	REMOVALS SITE PLAN AND NOTES	1-3192 PD-05	MAIN PIER TYPICAL CROSS SECTION
1-3192 R-00A	REMOVALS SITE PLAN AND NOTES	1-3192 PD-06	TYPICAL PIER CROSS SECTIONS
1-3192 R-01	REMOVALS PLAN - AREA 1	1-3192 PD-07	PROMENADE PIER PILE DETAILS - 1
1-3192 R-02	REMOVALS PLAN - AREA 2	1-3192 PD-08	PROMENADE PIER PILE DETAILS - 2

NO.	DATE	DRAWN	REVISIONS -	CHKD	APPD
	3/5/20	ZC	REVISED SHEETS: 1-3192 T-01 THRU T-05, PH-00, R-02, R-03, R-05, R-06, X-04.	ZPC	ZPC
	4/13/20	ZC	REVISED SHEETS: T-01, 1-3192 T-02 THRU T-04, R-03, S-01 THRU S-06.	ZPC	ZPC
	4/21/20	ZC	ADDED SHEET 1-3192 SN-02. REVISED SHEETS: T-01, 1-3192 T-02 THRU T-05, GN-02, R-00A, R-03, S-00, S-07 THRU S-09, X-01 THRU X-03.	ZPC	ZPC
	5/19/20	ZC	REVISED SHEETS: T-01, PH-00 THRU PH-02, 1-3192 T-02 THRU T-04, X-04, PD-02, PD-04 THRU PD-06, PD-08.	ZPC	ZPC

NO.	DATE	DRAWN	REVISIONS -	CHKD	APPD
	2/19/21	DFB	REVISED SHEETS: 1-3192 T-01 THRU T-04, R-05, R-06, R-07	DFB	ZPC




SCALE: AS SHOWN  
 DRAWN: D. FERNANDEZ, P. DUGDALE  
 CHECKED: K. TOOKE  
 DESIGNED: Z. CHRISCO  
 ENGINEER / ARCHITECT

WILMINGTON WATERFRONT PROMENADE  
 INDEX TO DRAWINGS, VICINITY MAP, AND REFERENCING SYSTEM  
  
 THE PORT OF LOS ANGELES  
**ENGINEERING DIVISION**  
 425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309  
 DRAWING NUMBER: 1-3192  
 SHEET NUMBER: T-02

# INDEX TO DRAWINGS

DRAWING NUMBER	TITLE	DRAWING NUMBER	TITLE	DRAWING NUMBER	TITLE	DRAWING NUMBER	TITLE
1-3192 PD-09	FLOATING DOCK AND GANGWAY PLATFORM PILE DETAILS	1-3192 RD-06	WATER STREET STORM DRAIN PLAN AND PROFILE <sup>1</sup>	1-3192 LM-04	LANDSCAPE MATERIALS PLAN - AREA 4 <sup>C</sup>	1-3192 LD-32	SITE BENCHES AND TABLES
1-3192 PD-10	PROMENADE PIER BEAM DETAILS - 1 <sup>A</sup>	1-3192 RD-07	WATER STREET ROADWAY CROSS SECTIONS	1-3192 LM-05	LANDSCAPE MATERIALS PLAN - AREA 5 <sup>C</sup>	1-3192 LD-33	RAIL BENCH DETAILS
1-3192 PD-11	PROMENADE PIER BEAM DETAILS - 2 <sup>A</sup>	1-3192 RD-08	RETAINING WALL DETAILS	1-3192 LM-06	LANDSCAPE MATERIALS PLAN - AREA 6	1-3192 LD-34	NOT USED
1-3192 PD-12	PROMENADE PIER BEAM DETAILS - 3 <sup>A</sup>					1-3192 LD-35	NOT USED
1-3192 PD-13	PROMENADE PIER DECK FRAMING DETAILS - 1 <sup>D</sup>	1-3192 TC-00	TRAFFIC CONTROL PLAN <sup>C</sup> <sup>1</sup>	1-3192 HJ-00	HARDSCAPE JOINTING SITE PLAN AND NOTES	1-3192 LD-36	NOT USED
1-3192 PD-14	PROMENADE PIER DECK FRAMING DETAILS - 2 <sup>D</sup>	1-3192 TC-01	TRAFFIC CONTROL PLAN <sup>B</sup> <sup>C</sup>	1-3192 HJ-01	HARDSCAPE JOINTING PLAN - AREA 1	1-3192 LD-37	NOT USED
				1-3192 HJ-02	HARDSCAPE JOINTING PLAN - AREA 2	1-3192 LD-38	NOT USED
1-3192 FL-01	FLOATING DOCK GENERAL NOTES	1-3192 SP-00	STRIPING AND FENCING SITE PLAN AND NOTES	1-3192 HJ-03	HARDSCAPE JOINTING PLAN - AREA 3	1-3192 LD-39	NOT USED
1-3192 FL-02	FLOATING DOCK PLAN	1-3192 SP-01	STRIPING AND FENCING PLAN - AREA 1	1-3192 HJ-04	HARDSCAPE JOINTING PLAN - AREA 4	1-3192 LD-40	PLAY AREA ENLARGEMENT <sup>C</sup>
1-3192 FL-03	FLOATING DOCK SECTIONS AND DETAILS	1-3192 SP-02	STRIPING AND FENCING PLAN - AREA 2	1-3192 HJ-05	HARDSCAPE JOINTING PLAN - AREA 5	1-3192 LD-41	PLAY AREA ENLARGEMENTS
1-3192 FL-04	GANGWAY PLATFORM ELEVATIONS	1-3192 SP-03	STRIPING AND FENCING PLAN - AREA 3	1-3192 HJ-06	HARDSCAPE JOINTING PLAN - AREA 6	1-3192 LD-42	PLAY ELEMENT FOUNDATION DETAILS
1-3192 FL-05	GANGWAY PLATFORM DETAILS	1-3192 SP-04	STRIPING AND FENCING DETAILS	1-3192 HJ-07	CONCRETE UNIT PAVER LAYOUT TABLE	1-3192 LD-43	PLAY SLOPE DETAILS <sup>C</sup>
1-3192 FL-06	GANGWAY AND ACCESS RAMP NOTES <sup>A</sup>	1-3192 SP-05	AVALON BOULEVARD BETWEEN "A" STREET TO WATER STREET <sup>C</sup>			1-3192 LD-44	PLAY SLOPE DETAILS
1-3192 FL-07	GANGWAY RAMP LAYOUT AND DETAILS			1-3192 LD-01	PAVING DETAILS <sup>C</sup> <sup>1</sup>		
1-3192 FL-08	ACCESS RAMP LAYOUT AND DETAILS	1-3192 SL-01	BUREAU OF STREET LIGHTING VICINITY MAP AND NOTES	1-3192 LD-02	PAVING DETAILS	1-3192 EG-00	ENVIRONMENTAL GRAPHICS SITE PLAN
1-3192 FL-09	SECURITY FENCE AND GATE DETAILS	1-3192 SL-02	BUREAU OF STREET LIGHTING PLAN	1-3192 LD-03	NOT USED	1-3192 EG-01	COLOR SCHEDULE
				1-3192 LD-04	PROMENADE PAVING PRINCIPLES	1-3192 EG-02-09	NOT USED
1-3192 RS-01	BULKHEAD WALL PLAN - 1 <sup>C</sup>	1-3192 WL-01	WATER STREET LIGHT - PLAN AND NOTES	1-3192 LD-05	PROMENADE PAVING PRINCIPLES	1-3192 EG-10	PROJECT ENTRY SIGN
1-3192 RS-02	BULKHEAD WALL PLAN - 2 <sup>C</sup>	1-3192 WL-02	WATER STREET LIGHT - PLAN <sup>1</sup>	1-3192 LD-06	PARKING PAVING AND CURBS <sup>A</sup> <sup>C</sup> <sup>1</sup>	1-3192 EG-11-19	NOT USED
1-3192 RS-03	BULKHEAD WALL PLAN - 3 <sup>C</sup>	1-3192 WL-03	WATER STREET LIGHT - DETAILS	1-3192 LD-07	PIER DECKING PRINCIPLES <sup>C</sup>	1-3192 EG-20	PARKING LOT ID
1-3192 RS-04	BULKHEAD CONCRETE CAP AND SLAB PLAN - 1 <sup>C</sup> <sup>D</sup>	1-3192 WL-04	WATER STREET LIGHT - DETAILS <sup>1</sup>	1-3192 LD-08	NOT USED	1-3192 EG-21	PARKING LOT ID
1-3192 RS-05	BULKHEAD CONCRETE CAP AND SLAB PLAN - 2 <sup>C</sup> <sup>D</sup>			1-3192 LD-09	NOT USED	1-3192 EG-22-29	NOT USED
1-3192 RS-06	BULKHEAD PILE DETAILS <sup>C</sup>	1-3192 C-00	HARDSCAPE LAYOUT AND GRADING SITE PLAN AND NOTES	1-3192 LD-10	PRECAST BLUFF SEAT WALL DETAILS	1-3192 EG-30	PEDESTRIAN DIRECTIONAL
1-3192 RS-07	BULKHEAD SHEET PILE WALL ELEVATION <sup>C</sup>	1-3192 C-01	HARDSCAPE LAYOUT AND GRADING - AREA 1	1-3192 LD-11	PRECAST BLUFF SEAT WALL DETAILS	1-3192 EG-31	PEDESTRIAN DIRECTIONAL
1-3192 RS-08	BULKHEAD SHEET PILE WALL SECTIONS <sup>C</sup> <sup>D</sup>	1-3192 C-02	HARDSCAPE LAYOUT AND GRADING - AREA 2	1-3192 LD-12	PRECAST DETAILS - STAIRS AND BENCHES	1-3192 EG-32-39	NOT USED
1-3192 RS-09	TYPE A BULKHEAD SHEET PILE CAP BEAM DETAILS <sup>C</sup> <sup>D</sup>	1-3192 C-03	HARDSCAPE LAYOUT AND GRADING - AREA 3	1-3192 LD-13	STONE DETAILS - TIDAL STEPS <sup>A</sup> <sup>C</sup>	1-3192 EG-40	RULES AND REGULATIONS - LARGE
1-3192 RS-10	TYPE B BULKHEAD SHEET PILE CAP BEAM DETAILS <sup>C</sup> <sup>D</sup>	1-3192 C-04	HARDSCAPE LAYOUT AND GRADING - AREA 4	1-3192 LD-14	STONE DETAILS - TIDAL STEPS <sup>A</sup>	1-3192 EG-41	RULES AND REGULATIONS - SMALL
1-3192 RS-11	BULKHEAD CAP TRANSITION DETAILS <sup>C</sup> <sup>D</sup>	1-3192 C-05	HARDSCAPE LAYOUT AND GRADING - AREA 5	1-3192 LD-15	STONE DETAILS <sup>C</sup>	1-3192 EG-42-43	NOT USED
1-3192 RS-12	LWCC SECTIONS AT EXISTING WALLS <sup>C</sup>	1-3192 C-06	HARDSCAPE LAYOUT AND GRADING - AREA 6	1-3192 LD-16	WATER'S EDGE DETAILS <sup>D</sup>	1-3192 EG-44	RULES AND REGULATIONS - DRONE POSTING
1-3192 RS-13	CAP BEAM DETAILS AT STORM DRAIN PENETRATION <sup>C</sup> <sup>D</sup>	1-3192 C-07	HARDSCAPE LAYOUT AND GRADING - AREA 7	1-3192 LD-17	BLUFF ENLARGEMENT <sup>C</sup>	1-3192 EG-45	RULES AND REGULATIONS - CRIME FREE ZONE
		1-3192 C-08	HARDSCAPE LAYOUT AND GRADING - AREA 8	1-3192 LD-18	PRECAST DETAILS - LARGE SEAT WALL AT PLAY AREA	1-3192 EG-46	RULES AND REGULATIONS - PUBLIC LANDING POSTING
1-3192 WS-01	WATERFRONT STRUCTURE SITE PLAN <sup>C</sup>	1-3192 C-09	HARDSCAPE LAYOUT AND GRADING - AREA 9	1-3192 LD-19	PRECAST DETAILS - SEAT WALLS	1-3192 EG-47	RULES AND REGULATIONS - NO FISHING POSTING
1-3192 WS-02	WATERFRONT STRUCTURE SITE PLAN - 1 <sup>C</sup>	1-3192 C-10	HARDSCAPE LAYOUT AND GRADING - AREA 10	1-3192 LD-20	HANDRAIL DETAILS	1-3192 EG-48	RULES AND REGULATIONS - DUAL POSTING
1-3192 WS-03	WATERFRONT STRUCTURE SITE PLAN - 2 <sup>C</sup>	1-3192 C-11	HARDSCAPE LAYOUT AND GRADING - AREA 11	1-3192 LD-21	RAILING DETAILS	1-3192 EG-49	NOT USED
1-3192 WS-04	WATERFRONT STRUCTURE SITE PLAN - 3 <sup>C</sup>	1-3192 C-12	HARDSCAPE LAYOUT AND GRADING - AREA 12 <sup>A</sup>	1-3192 LD-22	MARINE GUARDRAIL DETAILS <sup>C</sup>	1-3192 EG-50	RESTROOM BLADE
		1-3192 C-13	HARDSCAPE LAYOUT AND GRADING - AREA 13	1-3192 LD-23	MARINE GUARDRAIL DETAILS <sup>C</sup>	1-3192 EG-51-59	NOT USED
1-3192 RD-00	WATER STREET ROADWAY SITE PLAN <sup>B</sup> <sup>C</sup>	1-3192 C-14	HARDSCAPE LAYOUT AND GRADING - AREA 14	1-3192 LD-24	STAGE AND RAMP DETAILS <sup>A</sup> <sup>B</sup>	1-3192 EG-60	ART PANEL
1-3192 RD-0.1	COVER SHEET	1-3192 C-15	HARDSCAPE LAYOUT AND GRADING - AREA 15	1-3192 LD-25	GUARDRAIL CORNERS	1-3192 EG-61-69	NOT USED
1-3192 RD-0.2	NOTES, KEY MAP AND STREET SECTIONS <sup>A</sup> <sup>B</sup> <sup>C</sup> <sup>1</sup>	1-3192 C-16	HARDSCAPE LAYOUT AND GRADING - AREA 16	1-3192 LD-26	MARINE GUARDRAIL LAYOUT <sup>C</sup>	1-3192 EG-70	FOOTING DETAILS
1-3192 RD-01	WATER STREET ROADWAY PLAN AND PROFILE <sup>B</sup> <sup>C</sup>			1-3192 LD-27	MARINE GUARDRAIL LAYOUT <sup>C</sup>	1-3192 EG-80	RULES AND REGULATIONS-NO LANDING <sup>A</sup>
1-3192 RD-02	WATER STREET ROADWAY PLAN AND PROFILE <sup>C</sup>	1-3192 LM-00	LANDSCAPE MATERIALS SITE PLAN AND NOTES <sup>C</sup>	1-3192 LD-28	RESTROOM MAINTENANCE RAIL DETAILS	1-3192 EG-81	RULES AND REGULATIONS-NO LANDING <sup>A</sup>
1-3192 RD-03	WATER STREET REALIGNMENT PLAN AND PROFILE <sup>C</sup> <sup>1</sup>	1-3192 LM-01	LANDSCAPE MATERIALS PLAN - AREA 1 <sup>C</sup> <sup>D</sup>	1-3192 LD-29	MARINE GUARDRAIL DETAILS <sup>C</sup>	1-3192 EG-90	RULES AND REGULATIONS-NO MOORING SIGN <sup>A</sup>
1-3192 RD-04	WATER STREET REALIGNMENT PLAN AND PROFILE <sup>A</sup> <sup>C</sup> <sup>1</sup>	1-3192 LM-02	LANDSCAPE MATERIALS PLAN - AREA 2 <sup>A</sup> <sup>C</sup>	1-3192 LD-30	LIGHTING FOUNDATION DETAILS <sup>B</sup>	1-3192 EG-100	RULES AND REGULATIONS- WATER'S EDGE
1-3192 RD-05	WATER STREET REALIGNMENT PLAN AND PROFILE	1-3192 LM-03	LANDSCAPE MATERIALS PLAN - AREA 3 <sup>A</sup> <sup>B</sup> <sup>C</sup>	1-3192 LD-31	SITE ELEMENT DETAILS <sup>C</sup>		

NO. DATE DRAWN REVISIONS -		CHKD APPD		NO. DATE DRAWN REVISIONS -		CHKD APPD		SCALE: AS SHOWN		WILMINGTON WATERFRONT PROMENADE			
3/5/20 ZC REVISED SHEET TITLE: 1-3192 RD-06. REVISED SHEETS: 1-3192 RD-0.2, RD-04, C-12, LM-02, LM-03, LD-06, LD-13, LD-14, LD-24, EG-80, EG-81, EG-90.		ZPC ZPC		2/19/21 DFB REVISED SHEETS 1-392 RD-0.2, RD-03, RD-04, RD-06, TC-00, WL-02, WL-04, LD-01, LD-06		DFB ZPC		DRAWN: D. FERNANDEZ, P. DUGDALE		INDEX TO DRAWINGS			
4/13/20 ZC REVISED SHEETS: 1-3192 RD-00, RD-02, RD-01, TC-01, LM-03, LD-24, LD-30.		ZPC ZPC						CHECKED: K. TOOKE					
4/21/20 ZC REVISED SHEETS: 1-3192 RS-01 THRU RS-13, WS-01 THRU WS-04, RD-00, RD-02, RD-01 THRU RD-04, TC-00, TC-01, SP-05, LM-00 THRU LM-05, LD-01, LD-06, LD-07, LD-13, LD-15, LD-17, LD-22, LD-26, LD-29, LD-31, LD-40, LD-43.		ZPC ZPC						DESIGNED: Z. CHRISCO		 <b>THE PORT OF LOS ANGELES ENGINEERING DIVISION</b> 425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309			
5/19/20 ZC REVISED SHEETS: 1-3192 PD-10 THRU PD-14, FL-06, RS-04, RS-05, RS-08 THRU RS-11, RS-13, LM-01, LD-16.		ZPC ZPC						ENGINEER / ARCHITECT					
										1-3192 T-03			

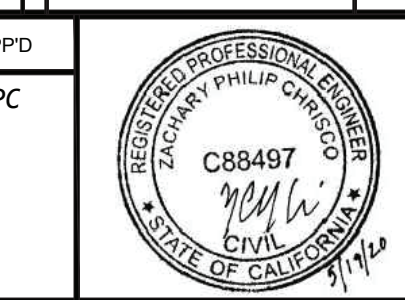
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# INDEX TO DRAWINGS

DRAWING NUMBER	TITLE	DRAWING NUMBER	TITLE	DRAWING NUMBER	TITLE	DRAWING NUMBER	TITLE
1-3192 SD-00	STORM DRAIN SITE PLAN AND NOTES	1-3192 DW-14	WATER SYSTEM DETAILS	1-3192 IR-07	IRRIGATION SCHEDULE	1-3192 SA1-21	SWING STRUCTURES - STRUCTURE 1 <sup>A</sup> / <sub>B</sub>
1-3192 SD-01	STORM DRAIN PLAN - AREA 1 <sup>A</sup> / <sub>C</sub>	1-3192 DW-15	WATER ST. WATER PLAN DETAILS <sup>A</sup>	1-3192 IR-08	IRRIGATION DETAILS	1-3192 SA1-22	SWING STRUCTURES - STRUCTURE 2 <sup>A</sup> / <sub>B</sub>
1-3192 SD-02	STORM DRAIN PLAN - AREA 2 <sup>A</sup> / <sub>C</sub> <sup>1</sup> / <sub>A</sub>			1-3192 IR-09	IRRIGATION DETAILS	1-3192 SA1-23	SWING STRUCTURES - STRUCTURE 3 <sup>A</sup> / <sub>B</sub>
1-3192 SD-03	STORM DRAIN PLAN - AREA 3 <sup>A</sup> / <sub>C</sub>	1-3192 SS-00	SEWER SITE PLAN AND NOTES	1-3192 IR-10	IRRIGATION DETAILS	1-3192 SA1-31	SWING STRUCTURES - DETAILS <sup>A</sup> / <sub>B</sub>
1-3192 SD-04	STORM DRAIN PLAN - AREA 4 <sup>A</sup> / <sub>C</sub>	1-3192 SS-01	SEWER DETAILS	1-3192 IR-11	HYDROZONE PLAN <sup>1</sup> / <sub>A</sub>	1-3192 SA1-32	SWING STRUCTURES - CANOPY DETAILS <sup>A</sup> / <sub>B</sub>
1-3192 SD-05	STORM DRAIN PLAN - AREA 5 <sup>A</sup> / <sub>C</sub> <sup>1</sup> / <sub>A</sub>	1-3192 SS-02	SEWER PLAN <sup>A</sup> / <sub>B</sub> <sup>1</sup> / <sub>A</sub>			1-3192 SA2-11	PIER STRUCTURE - PLANS
1-3192 SD-06	STORM DRAIN PLAN - AREA 6	1-3192 SS-03	SEWER PLAN <sup>A</sup> / <sub>B</sub> <sup>1</sup> / <sub>A</sub>	1-3192 E-00	GENERAL NOTES, SYMBOLS, ABBRV AND SITE PLAN	1-3192 SA2-20	PIER STRUCTURE - ELEVATIONS <sup>A</sup> / <sub>B</sub>
1-3192 SD-07	STORM DRAIN DETAILS <sup>A</sup> / <sub>C</sub>	1-3192 SS-04	SEWER DETAILS <sup>1</sup> / <sub>A</sub>	1-3192 E-01	ELECTRICAL PLAN - AREA 1	1-3192 SA2-21	PIER STRUCTURE - AXONOMETRIC <sup>A</sup> / <sub>B</sub>
1-3192 SD-08	STORM DRAIN DETAILS <sup>A</sup> / <sub>C</sub>			1-3192 E-02	ELECTRICAL PLAN - AREA 2	1-3192 SA2-31	PIER STRUCTURE - DETAILS <sup>A</sup> / <sub>B</sub>
1-3192 SD-09	STORM DRAIN PROFILES	1-3192 LI-00	LIGHTING PLAN AND NOTES	1-3192 E-03	ELECTRICAL PLAN - AREA 3	1-3192 SA2-32	PIER STRUCTURE - CANOPY DETAILS <sup>A</sup> / <sub>B</sub>
1-3192 SD-10	STORM DRAIN PROFILES	1-3192 LI-01	LIGHTING PLAN - AREA 1	1-3192 E-04	ELECTRICAL PLAN - AREA 4 <sup>1</sup> / <sub>A</sub>	1-3192 SA3-00	SHADE STRUCTURES COMMON DETAILS
1-3192 SD-11	STORM DRAIN PROFILES <sup>A</sup> / <sub>A</sub> <sup>1</sup> / <sub>A</sub>	1-3192 LI-02	LIGHTING PLAN - AREA 2	1-3192 E-05	ELECTRICAL PLAN - AREA 5		
1-3192 SD-12	STORM DRAIN PROFILES <sup>A</sup> / <sub>A</sub>	1-3192 LI-03	LIGHTING PLAN - AREA 3	1-3192 E-06	ELECTRICAL PLAN - AREA 6	1-3192 AG-00	ARCHITECTURAL NOTES
1-3192 SD-13	STORM DRAIN PROFILES <sup>A</sup> / <sub>A</sub> <sup>1</sup> / <sub>A</sub>	1-3192 LI-04	LIGHTING PLAN - AREA 4	1-3192 E-07	ELECTRICAL ENLARGEMENT PLAN <sup>1</sup> / <sub>A</sub>	1-3192 AG-01	GENERAL AND ACCESSIBILITY NOTES
1-3192 SD-14	STORM DRAIN PROFILES <sup>A</sup> / <sub>A</sub> <sup>1</sup> / <sub>A</sub>	1-3192 LI-05	LIGHTING PLAN - AREA 5	1-3192 E-08	ELECTRICAL DOCK PLAN	1-3192 AG-02	ACCESSIBILITY GENERAL NOTES
1-3192 SD-15	LID SITE PLAN	1-3192 LI-06	LIGHTING PLAN - AREA 6	1-3192 E-09	ELECTRICAL ENLARGEMENT PLAN	1-3192 AG-03	ACCESSIBILITY GENERAL NOTES
1-3192 SD-16	DRAINAGE AREA SITE PLAN			1-3192 E-10	SINGLE LINE DIAGRAM AND LOAD SCHEDULE	1-3192 AG-04	ACCESSIBILITY GENERAL NOTES
1-3192 SD-17	VEGETATED AREA SITE PLAN	1-3192 LP-00	PLANTING SITE PLAN AND NOTES	1-3192 E-11	FEEDER AND FIXTURE SCHEDULES <sup>1</sup> / <sub>A</sub>	1-3192 AG-05	ACCESSIBILITY GENERAL NOTES
1-3192 SD-18	SUPPLEMENTAL DOCUMENTS	1-3192 LP-01	PLANTING PLAN - AREA 1 <sup>A</sup> / <sub>A</sub>	1-3192 E-12	PANEL SCHEDULES <sup>A</sup> / <sub>A</sub>	1-3192 AG-06	GREEN BUILDING NOTES
		1-3192 LP-02	PLANTING PLAN - AREA 2 <sup>A</sup> / <sub>C</sub>	1-3192 E-13	ELECTRICAL DETAILS <sup>A</sup> / <sub>B</sub> <sup>1</sup> / <sub>A</sub>	1-3192 AG-07	GREEN BUILDING NOTES
1-3192 W-00	WATER SITE PLAN AND NOTES	1-3192 LP-03	PLANTING PLAN - AREA 3	1-3192 E-14	ELECTRICAL DETAILS	1-3192 AG-08	GREEN BUILDING FORMS
1-3192 W-01	WATER PLAN - AREA 1 <sup>A</sup> / <sub>C</sub>	1-3192 LP-04	PLANTING PLAN - AREA 4 <sup>A</sup> / <sub>B</sub> <sup>1</sup> / <sub>A</sub>	1-3192 E-15	ELECTRICAL DETAILS <sup>A</sup> / <sub>B</sub> <sup>1</sup> / <sub>A</sub>	1-3192 AG-09	GREEN BUILDING FORMS
1-3192 W-02	WATER PLAN - AREA 2 <sup>A</sup> / <sub>B</sub> <sup>A</sup> / <sub>C</sub>	1-3192 LP-05	PLANTING PLAN - AREA 5	1-3192 E-16	ELECTRICAL - DOCK DETAILS	1-3192 AG-10	GREEN BUILDING FORMS
1-3192 W-03	NOT USED	1-3192 LP-06	PLANTING PLAN - AREA 6	1-3192 E-17	ELECTRICAL SECURITY PLAN	1-3192 AG-11	BZP INFORMATION SHEET
1-3192 W-04	WATER PLAN - AREA 4	1-3192 LP-07	PLANTING SCHEDULE <sup>A</sup> / <sub>C</sub>	1-3192 E-18	DWP REQUIREMENTS <sup>1</sup> / <sub>A</sub>		
1-3192 W-05	WATER PLAN - AREA 5	1-3192 LP-08	PLANTING DETAILS	1-3192 E-19	34.5KV AND 4.8KV CONDUIT REQ - 1 <sup>1</sup> / <sub>A</sub>	1-3192 A-0.0	RESTROOM BUILDING - PLOT PLAN
1-3192 W-06	NOT USED	1-3192 LP-09	PLANTING DETAILS <sup>A</sup> / <sub>A</sub>	1-3192 E-20	34.5KV AND 4.8KV CONDUIT REQ - 2 <sup>A</sup> / <sub>D</sub> <sup>1</sup> / <sub>A</sub>	1-3192 A-0.1	RESTROOMS BUILDING - SITE PLAN
1-3192 W-07	WATER DETAILS <sup>A</sup> / <sub>C</sub>			1-3192 E-21	34.5KV AND 4.8KV CONDUIT REQ - 3 <sup>1</sup> / <sub>A</sub>	1-3192 A-0.2	ACCESSIBILITY PLAN
1-3192 W-08	WATER DETAILS	1-3192 SO-00	SOILS OVERALL PLAN AND NOTES <sup>A</sup> / <sub>B</sub>	1-3192 E-22	34.5KV AND 4.8KV CONDUIT REQ - 4 <sup>1</sup> / <sub>A</sub>	1-3192 A-0.3	CONSTRUCTION KEYNOTES
1-3192 W-09	WATER DETAILS	1-3192 SO-01	SOILS PLAN - AREA 1 <sup>A</sup> / <sub>A</sub> <sup>B</sup> / <sub>B</sub>	1-3192 E-23	TITLE 24 - 1	1-3192 A-1.0	RESTROOMS BUILDING - FLOOR PLAN AND ROOF PLAN
		1-3192 SO-02	SOILS PLAN - AREA 2 <sup>B</sup> / <sub>B</sub>	1-3192 E-24	TITLE 24 - 2	1-3192 A-1.1 <sup>A</sup> / <sub>A</sub>	RESTROOM BUILDING - PERIMETER DRAIN PLAN <sup>A</sup> / <sub>A</sub>
1-3192 DW-01	VICINITY MAP, KEY MAP & INDEX TO DRAWINGS	1-3192 SO-03	SOILS PLAN - AREA 3	1-3192 E-25	TITLE 24 - 3	1-3192 A-2.0	RESTROOMS BUILDING - REFLECTED CEILING PLAN
1-3192 DW-02	ABBREV, LEGEND & NOTES	1-3192 SO-04	SOILS PLAN - AREA 4 <sup>B</sup> / <sub>B</sub> <sup>1</sup> / <sub>A</sub>	1-3192 E-26	TITLE 24 - 4	1-3192 A-4.0	RESTROOMS BUILDING - EXTERIOR ELEVATIONS
1-3192 DW-03	NEW WATER ST. WATER SYSTEM PLAN	1-3192 SO-05	SOILS PLAN - AREA 5 <sup>B</sup> / <sub>B</sub>			1-3192 A-5.0	INTERIOR ELEVATIONS
1-3192 DW-04	NEW WATER ST. WATER SYSTEM PLAN	1-3192 SO-06	SOILS PLAN - AREA 6 <sup>B</sup> / <sub>B</sub>	1-3192 ES-00	SECURITY SITE PLAN AND NOTES	1-3192 A-6.0	ENLARGED PLANS
1-3192 DW-05	AVALON BLVD. WATER SYSTEM PLAN	1-3192 SO-07	SOILS DETAILS <sup>B</sup> / <sub>B</sub>	1-3192 ES-01	SECURITY PLAN - AREA 1	1-3192 A-7.0	RESTROOM BUILDING - SECTIONS
1-3192 DW-06	AVALON BLVD. WATER SYSTEM PLAN			1-3192 ES-02	SECURITY PLAN - AREA 2	1-3192 A-7.1	WALL SECTIONS
1-3192 DW-07	WATER ST. FIRE HYDRANT & 16" WATER PIPE REMOVAL PLAN	1-3192 IR-00	IRRIGATION SITE PLAN AND NOTES	1-3192 ES-03	SECURITY PLAN - AREA 3	1-3192 A-8.0	DOOR SCHEDULE
1-3192 DW-08	WATER PIPE PROFILE AND PLAN	1-3192 IR-01	IRRIGATION PLAN - AREA 1 <sup>A</sup> / <sub>A</sub>	1-3192 ES-04	SECURITY PLAN - AREA 4	1-3192 A-8.1	ROOM FINISH SCHEDULE
1-3192 DW-09	WATER PIPE PROFILES & TYP. FH INSTALLATION DETAILS	1-3192 IR-02	IRRIGATION PLAN - AREA 2	1-3192 ES-05	SECURITY PLAN - AREA 5	1-3192 A-9.0	TYPICAL DETAILS
1-3192 DW-10	AVALON BLVD. 3" WATER & 2" IRRIGATION SERVICE DETAILS	1-3192 IR-03	IRRIGATION PLAN - AREA 3	1-3192 ES-06	SECURITY PLAN - AREA 6	1-3192 A-9.1	TYPICAL DETAILS
1-3192 DW-11	WATER PIPE PROFILES <sup>A</sup> / <sub>A</sub>	1-3192 IR-04	IRRIGATION PLAN - AREA 4 <sup>1</sup> / <sub>A</sub>	1-3192 ES-07	SECURITY DETAILS	1-3192 A-9.2	TYPICAL DETAILS
1-3192 DW-12	16" STANDPIPE DETAILS	1-3192 IR-05	IRRIGATION PLAN - AREA 5			1-3192 A-10.0	MISCELLANEOUS DETAILS
1-3192 DW-13	WATER SYSTEM DETAILS	1-3192 IR-06	IRRIGATION PLAN - AREA 6	1-3192 SA1-11	SWING STRUCTURES - REFERENCE PLANS AND ELEVATIONS <sup>B</sup> / <sub>B</sub>	1-3192 A-10.1	MISCELLANEOUS DETAILS

NO.	DATE	DRAWN	REVISIONS -	CHKD	APPD
3/5/20	ZC	ADDED SHEET 1-3192 DW-15. REVISED SHEET TITLES: 1-3192 DW-09, DW-10, A-1.1. REVISED SHEETS: 1-3192 SD-11 THRU SD-14, LP-01, LP-09, SO-01, IR-01, E-12.	ZPC	ZPC	
4/13/20	ZC	REVISED SHEETS: 1-3192 W-02, SS-02, SS-03, LP-04, SO-00 THRU SO-02, SO-04 THRU SO-07, E-13, E-15, SA1-11 THRU SA1-32, SA2-20 THRU SA2-32.	ZPC	ZPC	
4/21/20	ZC	REVISED SHEETS: 1-3192 SD-01 THRU SD-05, SD-07, SD-08, W-01, W-02, W-07, LP-02, LP-07.	ZPC	ZPC	
5/19/20	ZC	REVISED SHEETS: 1-3192 E-20.	ZPC	ZPC	

NO.	DATE	DRAWN	REVISIONS -	CHKD	APPD
2/5/21	DFB	REVISED SHEETS 1-3192 SD-02, SD-05, SD-11, SD-13, SD-14, SS-02, SS-03, SS-04, LP-04, SO-04, IR-04, IR-11, E-04, E-07, E-11, E-13, E-15, E-18, E-19, E-20, E-21, E-22.	DFB	ZPC	

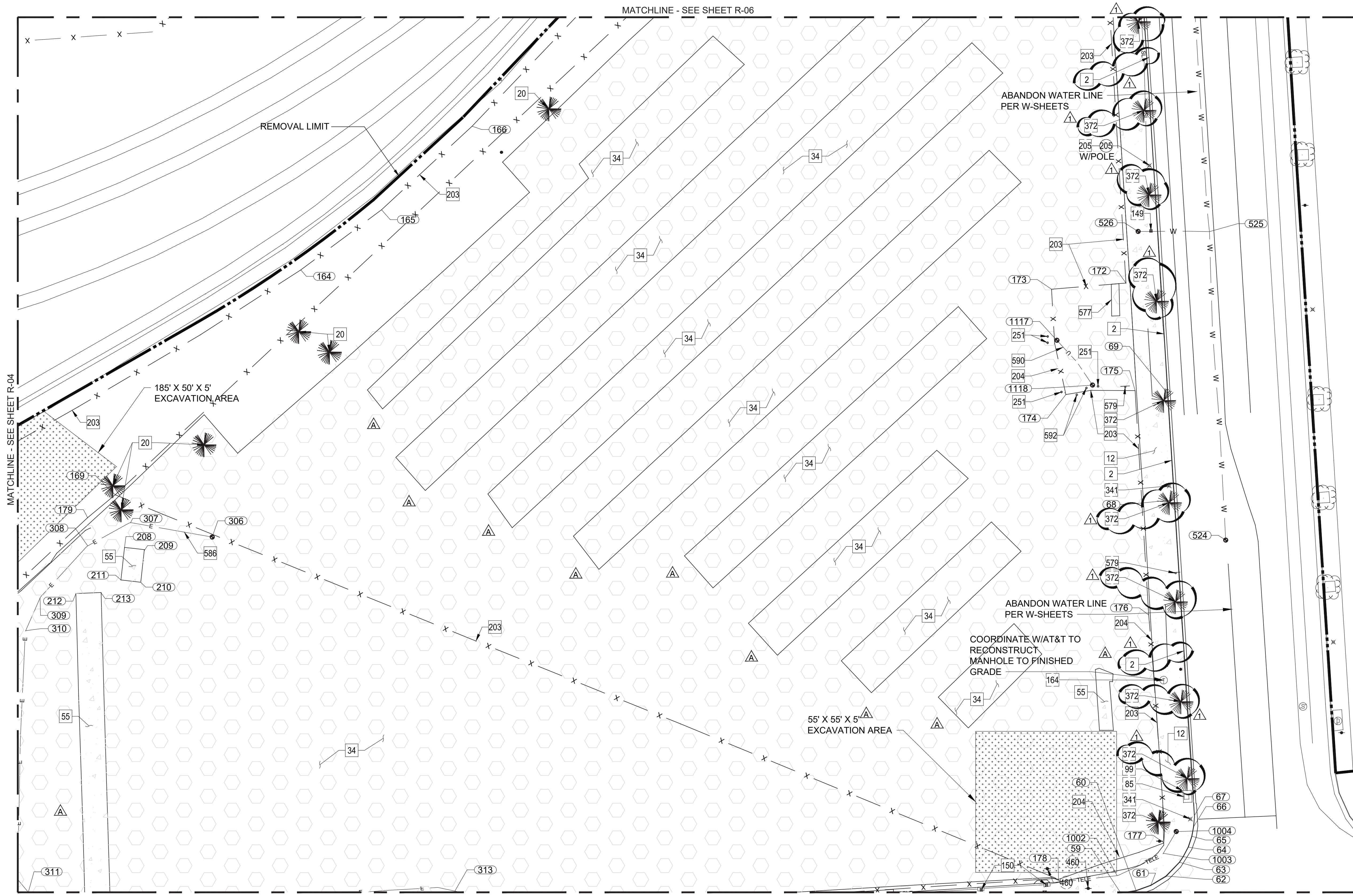


SCALE: AS SHOWN
DRAWN: D. FERNANDEZ, P. DUGDALE
CHECKED: K. TOOKE
DESIGNED: Z. CHRISCO
ENGINEER / ARCHITECT

WILMINGTON WATERFRONT PROMENADE		
INDEX TO DRAWINGS		
<p>THE PORT OF LOS ANGELES ENGINEERING DIVISION 425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309</p>	DRAWING NUMBER <b>1-3192</b>	SHEET NUMBER <b>T-04</b>

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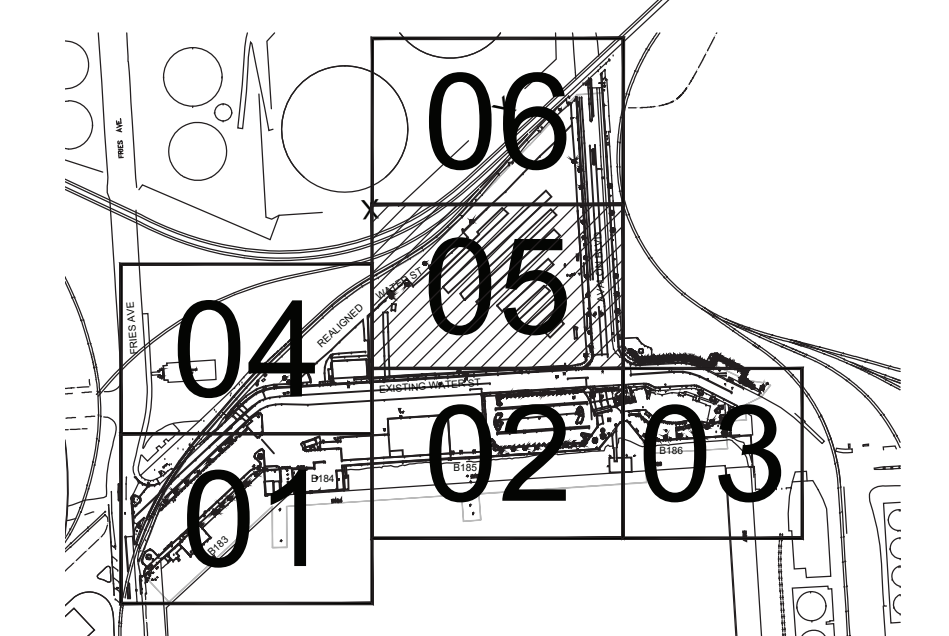
MATCHLINE - SEE SHEET R-06



**CONSTRUCTION NOTES**

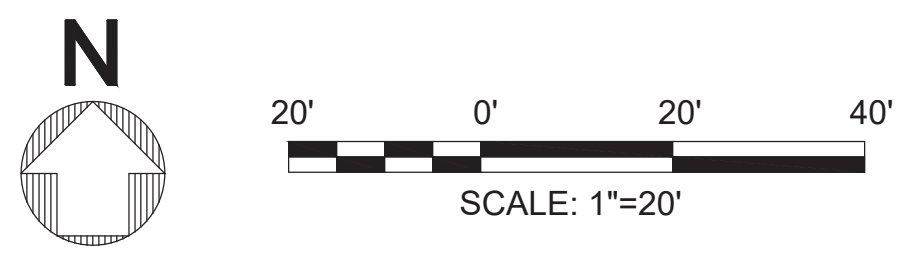
- COORDINATE, SEE SHEET R-07 AND R-08
  - CONSTRUCT
  - EXISTING
  - REMOVE
  - RELOCATE
  - REMOVE & RECONSTRUCT
  - NOT IN CONTRACT
- | No. | CONSTRUCTION ITEM                            |
|-----|--|
| 2   | TYPE C INTEGRAL CURB & GUTTER                |
| 12  | CONCRETE WALK                                |
| 20  | TREE   |
| 34  | VARIABLE THICKNESS ASPHALT CONCRETE PAVEMENT |
| 55  | CONCRETE PAD                                 |
| 85  | STORM DRAIN MAINTENANCE HOLE                 |
| 99  | SIDE OPENING CATCH BASIN                     |
| 149 | WATER METER, PER W-SHEETS                    |
| 150 | PULL BOX                                     |
| 164 | TELEPHONE MANHOLE                            |
| 203 | FENCE AND FOUNDATION                         |
| 204 | GATE   |
| 205 | SIGN, WITH POLE SEE SL-SHEETS                |
| 251 | GUARD POST AND FOUNDATION                    |
| 341 | LIGHT POLE AND FOUNDATION                    |
| 372 | PALM TREE                                    |
| 460 | LADWP POWER POLE, NIC                        |
| 577 | CMU BLOCK PLANTER                            |
| 579 | STREET SIGN POLE                             |
| 586 | ELECTRICAL CONDUIT LINE                      |
| 590 | UNKNOWN UTILITY LINE                         |
| 592 | BADGE READER POST                            |

- LEGEND:**
- REMOVAL LIMIT
  - - - U.S. PIER HEADLINE
  - x - x - x - FENCE
  - [Stippled Pattern] HAZARDOUS WASTE SOIL
  - [Diagonal Lines] AC REMOVAL
  - [Horizontal Lines] PCC REMOVAL
  - CUT AND CAP LIMIT



KEY MAP  
SCALE: 1" = 400'

**1R-05 REMOVALS PLAN - AREA 5**  
R-05 SCALE: 1" = 20'

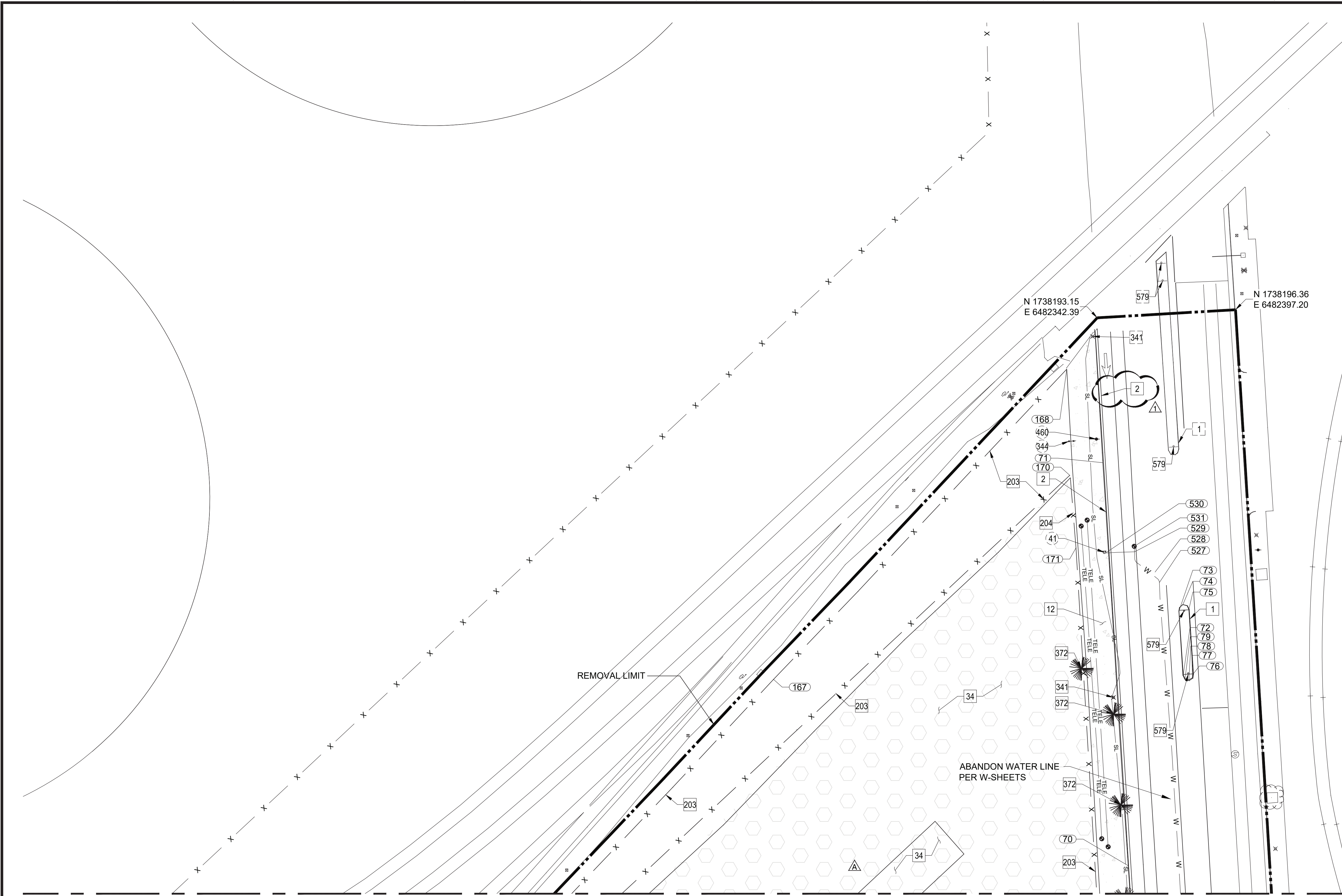


NO.	DATE	DRAWN	REVISIONS -	CHKD	APPD	NO.	DATE	DRAWN	REVISIONS -	CHKD	APPD	SCALE: AS SHOWN		WILMINGTON WATERFRONT PROMENADE	
1	03/09/20	CC	ADDED PCC REMOVAL HATCHING (C-1, C-10). ADDED AC REMOVAL HATCHING (F-4, F-5, F-6, E-6, E-7, D-7, D-8, C-9).	AFN	HAZ								DRAWN: C. CASTRO	REMOVALS PLAN - AREA 5	
2	01/06/21	CC	REVISED CONSTRUCTION CALLOUT FROM REMOVE TO EXISTING (C-10, D-10, E-10, H-10, I-10, J-10).	AFN	HAZ								CHECKED: H. CISNEROS	ENGINEERING DIVISION	
													DESIGNED: C. CASTRO	425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309	
													ADRIENNE J. NEWBOLD	DRAWING NUMBER SHEET NUMBER	
													2-18-20	1-3192 R-05	

DWG: \\ngp\m\indiv\cadd\p\1-3192-Wilmington Waterfront Promenade\Production\1-3192-TOPO TO R-08.dwg USER: castro  
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**CONSTRUCTION NOTES**

- COORDINATE, SEE SHEET R-07 AND R-08
  - CONSTRUCT    □ ○ RELOCATE
  - EXISTING    □ ○ REMOVE & RECONSTRUCT
  - REMOVE    ○ NOT IN CONTRACT
- | No. | CONSTRUCTION ITEM                            |
|-----|--|
| 1   | PRECAST CONCRETE CURB                        |
| 2   | TYPE C INTEGRAL CURB & GUTTER                |
| 12  | CONCRETE WALK                                |
| 34  | VARIABLE THICKNESS ASPHALT CONCRETE PAVEMENT |
| 41  | FIRE HYDRANT, PER W-SHEETS                   |
| 203 | FENCE AND FOUNDATION                         |
| 204 | GATE   |
| 341 | LIGHT POLE AND FOUNDATION                    |
| 344 | GUY WIRE                                     |
| 372 | PALM TREE                                    |
| 460 | LADWP POWER POLE, NIC                        |
| 579 | STREET SIGN POLE                             |



**1R-06 REMOVALS PLAN - AREA 6**  
**R-06 SCALE: 1" = 20'**

**LEGEND:**

- — — — — REMOVAL LIMIT
- - - - - U.S. PIER HEADLINE
- x - x - x - FENCE
- AC REMOVAL
- PCC REMOVAL
- CUT AND CAP LIMIT

**KEY MAP**  
 SCALE: 1" = 400'

DWG: \projects\municipal\cadd\p1\1-3192-Wilmington Waterfront Promenade\Production\1R-06.dwg USER: castro  
 DATE: Mar 02, 2021 2:55pm XREFS: 1-3192-SUBS 1-3192-LS-XREF 1-3192-R-XREF 1-3192-SS-XREF ALLW IMAGES:

NO.	DATE	DRAWN	REVISIONS -	CHKD	APPD	NO.	DATE	DRAWN	REVISIONS -	CHKD	APPD
1	03/09/20	CC	ADDED AC REMOVAL HATCHING (B-8).	AFN	HAZ						
2	01/06/21	CC	REVISED CONSTRUCTION CALLOUT FROM EXISTING TO REMOVE (F-10).	AFN	HAZ						

SCALE: AS SHOWN	CHIEF OF DESIGN
DRAWN: C. CASTRO	<i>Joe Law</i>
CHECKED: H. CISNEROS	ASSTANT CHIEF HARBOR ENGINEER
DESIGNED: C. CASTRO	<i>Joe Law</i>
ENGINEER / ARCHITECT	CHIEF HARBOR ENGINEER
<i>Adrienne J. Newbold</i>	<i>Joe Law</i>
	DATE: 2-18-20

**WILMINGTON WATERFRONT PROMENADE**

**REMOVALS PLAN - AREA 6**

THE PORT OF LOS ANGELES  
**ENGINEERING DIVISION**  
 425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER: 1-3192  
 SHEET NUMBER: R-06

Grid of 12 tables (6x2) showing removals point data with columns for Point #, Northing, Easting, and Description.

Grid of 12 tables (6x2) showing removals point data with columns for Point #, Northing, Easting, and Description.

1R-07 REMOVALS POINT TABLE SCALE: NTS

Project information block including drawing title 'REMOVALS POINT TABLE - COORDINATES', drawing number '1-3192 R-07', and engineering details.

Vertical text on the left margin: DWG: \\ngps\mrc\work\cad\dwg\1-3192-Wilmington Waterfront Promenade\Production\1-3192-TOPO-1-3192-SS-XREF.MLLW IMAGES...

Vertical text on the right margin: J, I, H, G, F, E, D, C, B, A

# NOTICE TO CONTRACTORS

- SPECIFICATIONS: ALL WORK SHALL CONFORM TO THE LATEST EDITION AND SUPPLEMENTS OF "THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" (GREENBOOK), AND THE CORRESPONDING "ADDITIONS AND AMENDMENTS TO THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" (BROWN BOOK).
- THIS IMPROVEMENT UNDER THIS B-PERMIT CONSIST OF WORK CALLED FOR ONLY ON THIS PLAN.
- STANDARD PLANS FOR THIS PROJECT:

- CITY OF LOS ANGELES
- 27983 STANDARD SADDLE CONNECTION
  - S-110-1 HOUSE CONNECTION SEWERS
  - S-111-0 HOUSE CONNECTION REMODELING
  - S-121-1 PLASTIC PLATE LINER DETAILS
  - S-137-1 ADJUSTING SEWER MAINTENANCE HOLES TO GRADE
  - S-140-0 SEWER MANHOLES - GENERAL
  - S-141-0 BRICK MANHOLE
  - S-142-0 PRECAST CONCRETE SEWER MANHOLE
  - S-164-0 TERMINAL CLEANOUT STRUCTURE "Y" (T.C.S "Y")
  - S-251-1 PIPE LAYING IN TRENCHES
  - S-253-0 SUPPORTS FOR STORM DRAIN AND SEWER PIPES ACROSS TRENCHED
  - S-255-1 BLANKET PROTECTION FOR PIPES
  - S-282-2 MAINTENANCE HOLE FRAME AND COVER 27-INCH
  - S-410-2 TYPES OF CURB AND GUTTER
  - S-412-0 EXTRUDED ASPHALT CONCRETE (AC) CURB
  - S-420-2 ALLEY INTERSECTION
  - S-430-1 JOINTS IN CONCRETE PAVEMENT
  - S-432-1 STANDARD STREET CROWN SECTIONS
  - S-440-4 DRIVEWAYS
  - S-442-5 CURB RAMPS
  - S-444-0 SIDEWALKS
  - S-450-3 TREE WELL COVER - TYPE A
  - S-456-2 TREE WELL, ROOT BARRIER AND PLANTING
  - S-460-0 GUIDE MARKERS
  - S-477-1 T-TRENCH AND PAVEMENT RESTORATION FOR ASPHALT CONCRETE STREETS
  - S-627-0 SYMBOLS FOR CONSTRUCTION NOTES
  - S-663-1 TREE STAKING AND GUYING DETAILS
  - S-791-1 ADVANCE CONSTRUCTION NOTICE SIGNS

AMERICAN PUBLIC WORKS ASSOCIATION (APWA)  
 APWA 300-3 SIDE OPENING CATCH BASIN  
 APWA 303-3 CURBSIDE GRATING BASIN  
 APWA 308-2 MONOLITHIC CONNECTION  
 APWA 321-2 STORM DRAIN MAINTENANCE HOLE  
 APWA 340-2 TRANSITION STRUCTURE

- INSPECTION: ALL WORK AND MATERIALS SHALL BE INSPECTED BY THE INSPECTOR OF PUBLIC WORKS DURING CONSTRUCTION PURSUANT TO LATEST EDITION OF STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK) AS AMENDED BY THE CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS "BROWN BOOK", AND THE STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION AS APPLICABLE. CALL (213) 485-5080 BEFORE NOON OF THE WORKING DAY BEFORE THE FIRST SCHEDULED DAY OF CONSTRUCTION. PRIOR TO THE START OF ANY CONSTRUCTION, DEMOLITION, REMOVALS, SAWCUTTING, OR INSTALLATION OF TRAFFIC CONTROL THE CONTRACTOR SHALL MEET WITH THE INSPECTOR TO DISCUSS SAFETY, TRAFFIC CONTROL REQUIREMENTS, PUBLIC ACCESS, CONSTRUCTION IMPACT MITIGATION, REMOVAL LIMITS, AND CONTRACTOR'S PLANNED SEQUENCING OF OPERATIONS. PRIOR TO OR AT THE PROJECT PRECONSTRUCTION MEETING THE PERMITTEE OR ITS CONTRACTOR SHALL PROVIDE THE INSPECTOR TWO SETS OF FULL-SIZE PLANS AND MAINTAIN ONE SET OF FULL-SIZE PLANS AT THE SITE DURING CONSTRUCTION. INDEXED PLANS ARE AVAILABLE FROM THE CITY'S WEBSITE AT [HTTP://ENGVault.LACity.ORG](http://ENGVault.LACity.ORG).

- THE CONTRACTOR, IN CONFORMANCE WITH LOS ANGELES CITY ORDINANCE NO. 150,478 SHALL POTHOLE EXISTING SUBSURFACE INSTALLATIONS CARRYING UNSTABLE SUBSTANCES TO DETERMINE THEIR LOCATIONS AND ELEVATIONS BEFORE COMMENCING EXCAVATION.

- UNDERGROUND SERVICE ALERT: BEFORE COMMENCING ANY EXCAVATION, THE CONTRACTOR SHALL OBTAIN AN UNDERGROUND SERVICE ALERT (USA) INQUIRY I.D. NUMBER BY CALLING (800) 227-2600. TWO WORKING DAYS SHALL BE ALLOWED AFTER THE I.D. NUMBER IS OBTAINED AND BEFORE THE CONTRACTOR STARTS THE EXCAVATION WORK SO THAT UTILITY OWNERS CAN BE NOTIFIED. IF THE UTILITY OWNER IS THE CITY OF LOS ANGELES, A CONFIRMATION NUMBER INDICATING THE CITY HAS BEEN NOTIFIED SHALL BE OBTAINED BY USA AND/OR THE CONTRACTOR FROM THE APPROPRIATE CITY DEPARTMENT. THE I.D. NUMBER TOGETHER WITH THE DATE ACQUIRED SHALL BE REPORTED TO THE BUREAU OF CONTRACT ADMINISTRATION WHEN CALLING FOR INSPECTION. I.D. NUMBERS WILL NOT BE GIVEN MORE THAN 10 DAYS BEFORE STARTING EXCAVATION WORK.

- AT LEAST THIRTY (30) DAYS BEFORE THE START OF CONSTRUCTION THE CONTRACTOR/ENGINEER SHALL CONTACT THE BUREAU OF STREET SERVICES, COORDINATING SECTION AT (213) 847-3200 TO VERIFY THAT THERE IS NO PROPOSED PROJECT IN THIS AREA.

- NOTIFICATION: AT LEAST TEN (10) DAYS BEFORE THE START OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY, IN WRITING, ABUTTING PROPERTY OCCUPANTS OF THE PROPOSED CONSTRUCTION START DATE. A COPY OF SAID WRITTEN NOTIFICATION SHALL BE PROVIDED TO THE PUBLIC WORKS INSPECTOR FOR APPROVAL BEFORE THEY ARE DISTRIBUTED TO THE OCCUPANTS OF THE ABUTTING PROPERTY.

- ADVANCE CONSTRUCTION NOTICE SIGNS: IN ADDITION TO SIGNS REQUIRED BY THE PROVISIONS OF THE "WORK AREA TRAFFIC CONTROL HANDBOOK" (WATCH), LATEST EDITION, FURNISH AND PLACE SIGNS FOR GIVING ADVANCE NOTICE TO MOTORISTS OF TRAFFIC DISRUPTION AS PART OF THIS PROJECT IN ACCORDANCE WITH STANDARD PLAN S-791-1.

- CUTS OR EXCAVATIONS IN STREETS THAT HAVE BEEN RESURFACED ONE YEAR OR LESS FROM THE DATE OF A PROPOSED CUT OR EXCAVATION ARE PROHIBITED UNLESS THE PERMITTEE RESURFACES THE ENTIRE BLOCK OR INTERSECTION WITHIN WHICH SUCH CUT OR EXCAVATION OCCURS, PER ORDINANCE NO. 171922, 171923, 171924, AND SPECIAL ORDER NO. 06-0807.

- CONSTRUCTION STAKES FOR CURB AND LONGITUDINAL GUTTER, WITH GRADE LESS THAN 0.50%, SHALL BE SET AT 12.5 FEET ON CENTER.

- IN ADDITION TO THE CONSTRUCTION OF PAVEMENT SHOWN HEREON, WORK REQUIRED UNDER THIS PLAN WILL ALSO INCLUDE THE CONSTRUCTION OF PERMANENT TRENCH RESURFACING IN ALL AREAS WHERE UTILITY LINES HAVE BEEN INSTALLED TO SERVE THIS DEVELOPMENT. CONDITIONS OF TRENCH BACKFILL AND RESURFACING SHALL BE AS SPECIFIED ON THE EXCAVATION PERMIT. PAVING OF ROADWAY AREAS SHALL BE WITHHELD UNTIL CONTEMPLATED UTILITY CHANGES OR INSTALLATIONS HAVE BEEN MADE UNDER CITY PERMIT. TRENCHING WITHIN CITY ROW SHALL BE PER STANDARD PLAN S-477-1

- REPAIR AND/OR REPLACE ANY EXISTING BROKEN OR OFF-GRADE PAVEMENT, CONCRETE CURB, GUTTER OR SIDEWALK IMMEDIATELY ADJACENT TO OR WITHIN THE AREA OF THIS IMPROVEMENT SATISFACTORY TO THE CITY ENGINEER.

# NOTICE TO CONTRACTORS CONT'D

- SURVEY MONUMENT PRESERVATION IS REQUIRED AND SHALL INCLUDE SUBMITTAL OF PRE AND POST CONSTRUCTION SURVEY MONUMENT TIES TO BOTH HORIZONTAL AND VERTICAL CONTROL POINTS PUBLISHED IN THE LOS ANGELES CITY ENGINEER FIELD BOOKS AND PRECISE BENCHMARK BOOKS. THIS DOES NOT RELIEVE THE CONTRACTOR OF FULFILLING ANY ADDITIONAL REQUIREMENTS SET FORTH BY SECTIONS 2-9.1 AND 2-9.3 OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK AND BROWN BOOK).
- IMPORTANT NOTICE: ALL REQUIRED PUBLIC IMPROVEMENTS MUST BE COMPLETED BEFORE A TEMPORARY CERTIFICATE OF OCCUPANCY OR A CERTIFICATE OF OCCUPANCY WILL BE ISSUED FOR THIS PROJECT PER ORDINANCE NO. 165081.
- TRAFFIC LANE REQUIREMENTS:

THE LATEST EDITION AND SUPPLEMENTS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK) AND THE CORRESPONDING ISSUE OF THE "BROWN BOOK" WILL BE SATISFACTORY FOR TRAFFIC AND ACCESS. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "WORK AREA TRAFFIC CONTROL HANDBOOK" (WATCH) ADOPTED BY THE BOARD OF PUBLIC WORKS OF THE CITY OF LOS ANGELES.

- FOR TREE NOTES SEE SHEET RD-04.

## CONSTRUCTION NOTES

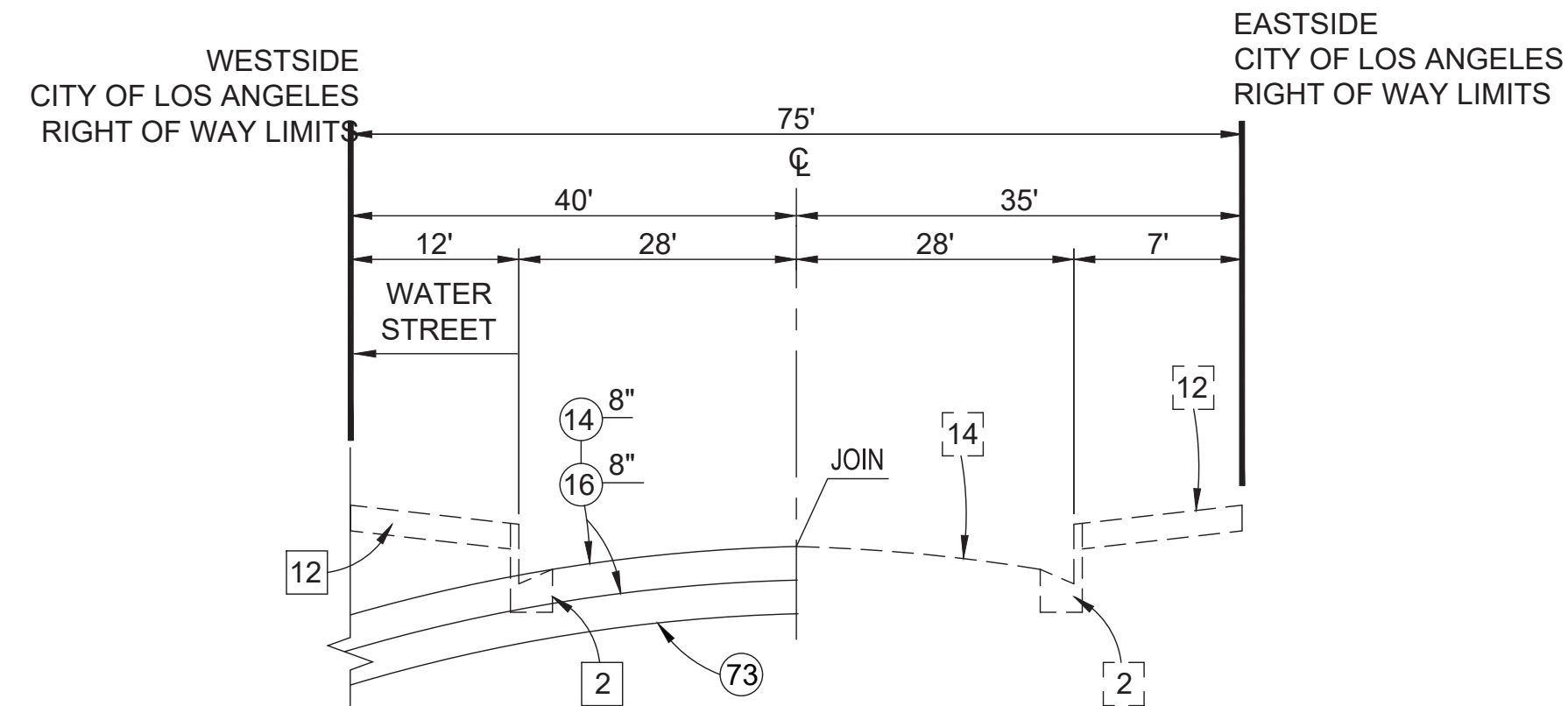
- CONSTRUCT
- EXISTING
- REMOVE
- REMODEL EXIST.
- REMOVE & CONST.
- WORK BY OTHERS

- PRECAST CONCRETE CURB
- TYPE "C" INTEGRAL CURB & GUTTER, a=2', b=6", 6" C.F.
- TYPE "E" INTEGRAL CURB & GUTTER, a=1', b=6", 6" C.F.
- CONCRETE INTERSECTION GUTTER, a=1', b=6", g=4'
- CONCRETE DRIVEWAY (AS SHOWN)
- CONCRETE WALK, t= AS NOTED
- CURB RAMP (AS SHOWN)
- ASPHALT CONCRETE PAVEMENT, t= AS NOTED
- UNTREATED BASE MATERIAL t= AS NOTED
- TREE
- COLDPLANE (MILL) AC PAVEMENT
- TREE WELL
- VARIABLE THICKNESS ASPHALT CONCRETE PAVEMENT
- GEOGRID MODEL TX5 MANUFACTURED BY TENSAR
- REINFORCED CONCRETE PIPE (RCP) (PIPE SIZE AND D LOAD AS SHOWN)
- CURBSIDE GRATING BASIN
- TRANSITION STRUCTURE (TS)
- STORM DRAIN MAINTENANCE HOLE
- MONOLITHIC CONNECTION
- SIDE OPENING CATCH BASIN
- HDPE PIPE
- VITRIFIED CLAY PIPE (VCP)
- SEWER MAINTENANCE HOLE
- HOUSE CONNECTION SEWER S-110-0, D=6"
- SADDLE CONNECTION
- CLEANOUT STRUCTURE
- WYE CONNECTION
- ADJUST SEWER MAINTENANCE HOLE TO GRADE S-137-1
- CAST IRON PIPE
- DUCTILE IRON PIPE (6" FORCE MAIN)
- WATER METER
- TELEPHONE MAINTENANCE HOLE
- CHAIN LINK FENCE
- LIGHT POLE AND FOUNDATION
- RAIL
- RAILROAD SIGNAL
- RAILROAD CROSSING GATE

## VERTICAL DATUM

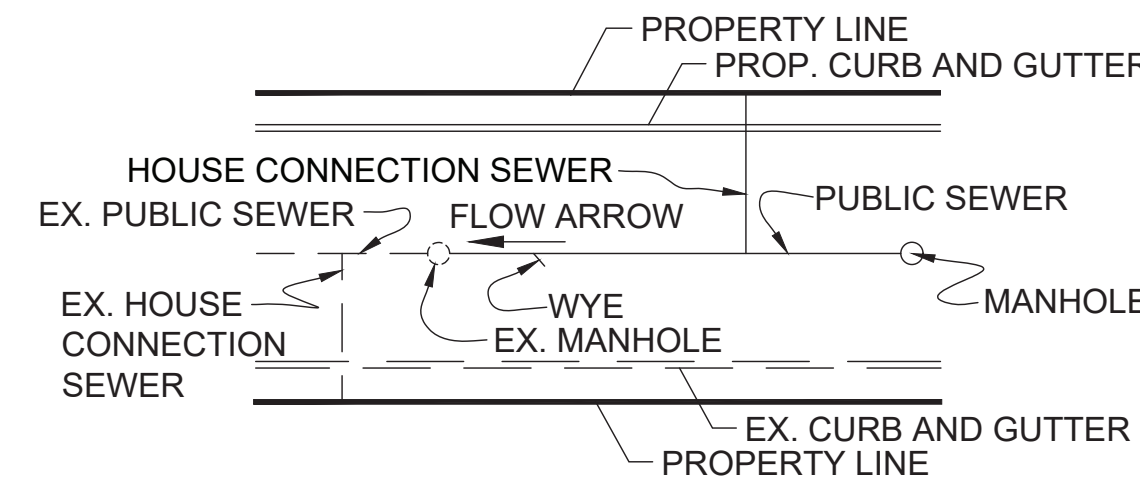
- VERTICAL DATUM REFERENCED IS MEAN LOWER LOW WATER (MLLW) (HARBOR DEPARTMENT STANDARD) UNLESS OTHERWISE NOTED ON PLANS AS MEAN SEA LEVEL (MSL) (CITY OF LOS ANGELES STANDARD), CONVERSION BETWEEN DATUMS SHALL BE AS FOLLOWS:

MLLW = MSL + 2.8FT  
 MSL = MLLW - 2.8FT

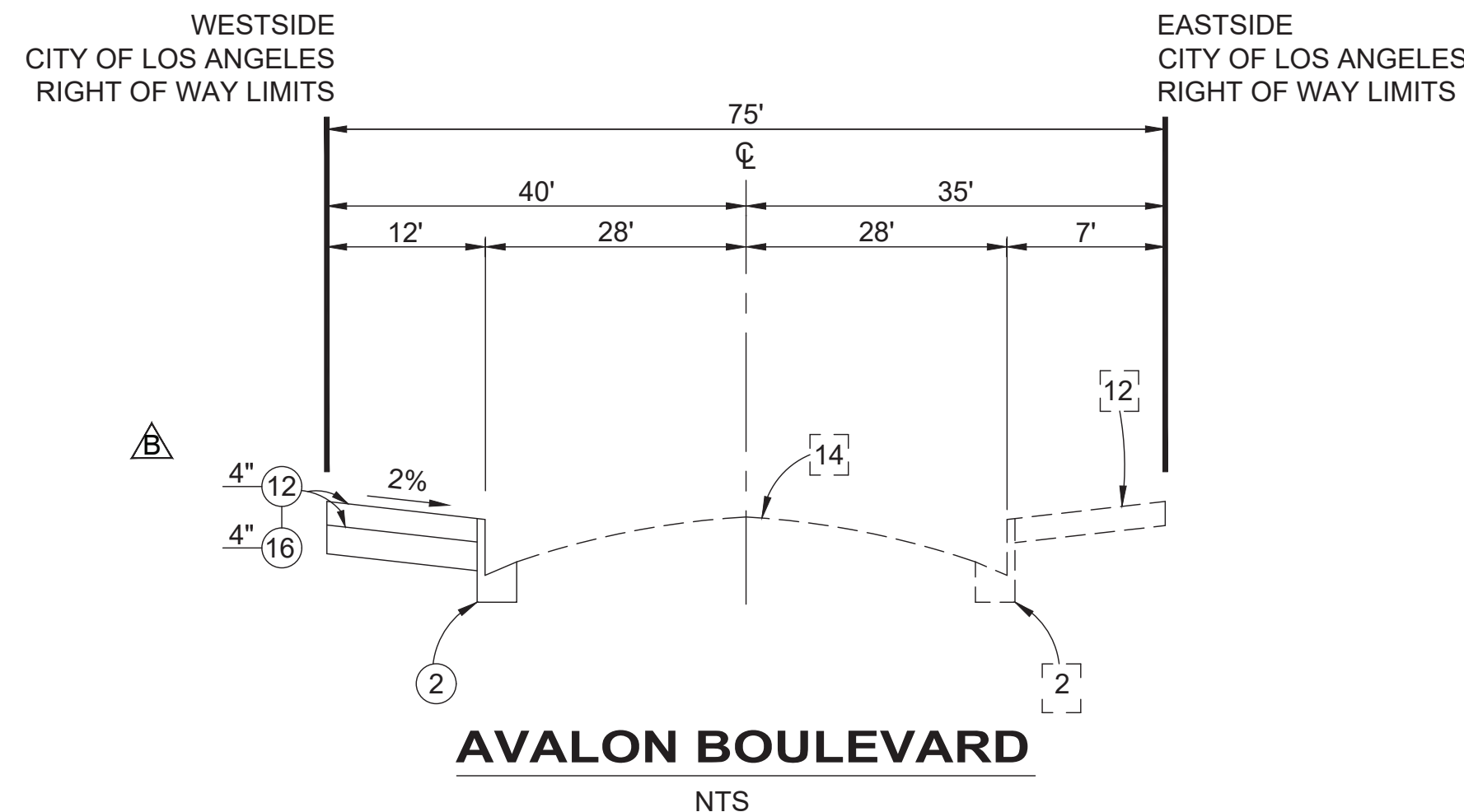


**AVALON BLVD. & WATER ST. INTERSECTION**  
 NTS

## LEGEND



## TYPICAL SECTIONS



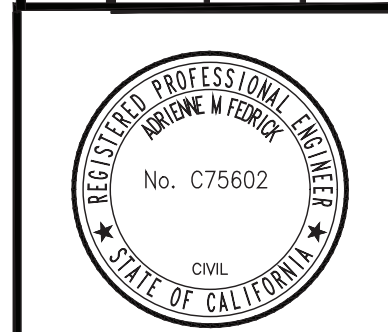
**AVALON BOULEVARD**  
 NTS

# INDEX TO SHEETS

SHT NO.	PLANS OF	FROM	TO
1-2	TITLE SHEETS	RD-0.1	RD-0.2
3-5	STREET IMPROVEMENTS	RD-03	RD-05
6	STORM DRAIN	RD-06	RD-06
7-10	SANITARY SEWER	SS-01	SS-04
11	STREET TRAFFIC CONTROL	SP-01	
12-13	STREET LIGHTING	SL-01	SL-02

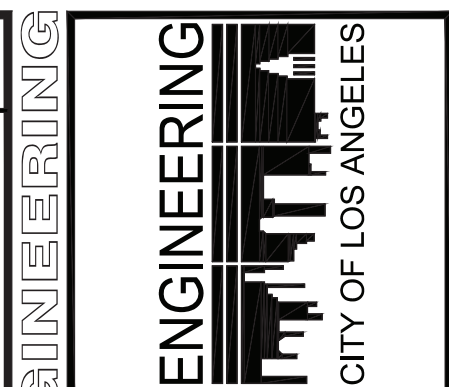
NO.	DATE	BY	REVISIONS
1	8/19/20	FC	ADDED CONSTRUCTION NOTES 21 AND 34 TO LEGEND
2	4/10/20	FC	CHANGED CONCRETE SIDEWALK THICKNESS
3	5/6/20	FC	ADDED CONSTRUCTION NOTE 6 TO LEGEND.
4	2/01/21	FC	ADDED CONSTRUCTION NOTE 26 AND 138 TO LEGEND.

DESIGNED BY: FRANCISCO CAMAL	CHECKED BY (PRINTED NAME):
DRAWN BY: FRANCISCO CAMAL	SIGNATURE:
CHECKED BY: ADRIENNE NEWBOLD	DATE:
APPROVED BY: CHRISTINA SAR	



PLANS PREPARED BY: ADRIENNE FEDRICK  
 ENGINEER/ARCHITECT SIGNATURE DATE 7/6/2020

PROJECT TITLE: WILMINGTON WATERFRONT PROMENADE PROJECT  
 PROJECT NO. 1-3192  
 ADDRESS: 301 SOUTH AVALON BLVD., WILMINGTON, CA 90744



DATE: BY:  
 SERIAL NO.  
 B-PERMITS BR600508

INDEX NO. P-38614

APPROVAL: [Signature]

DESIGN GROUP: FRANCISCO CAMAL

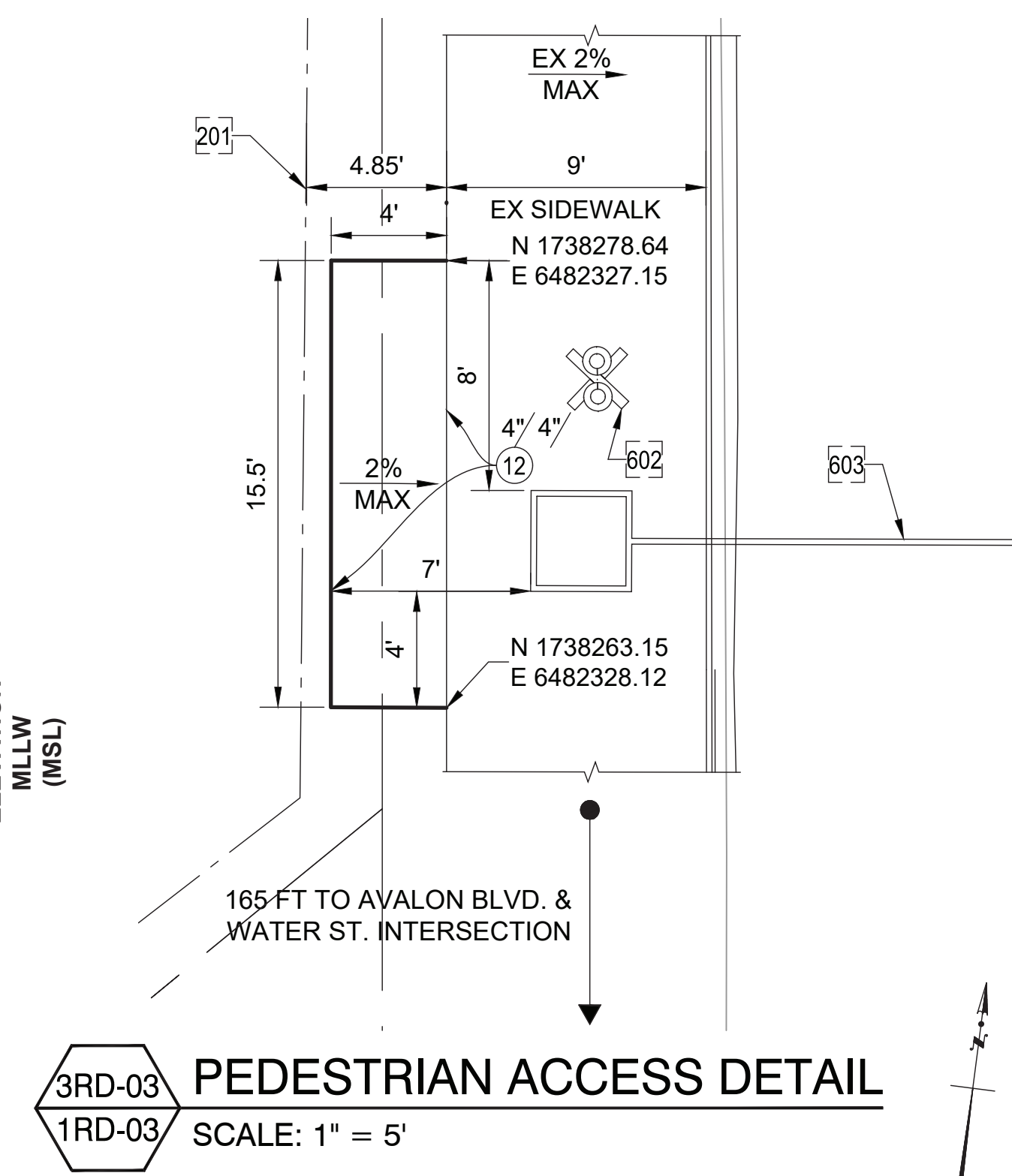
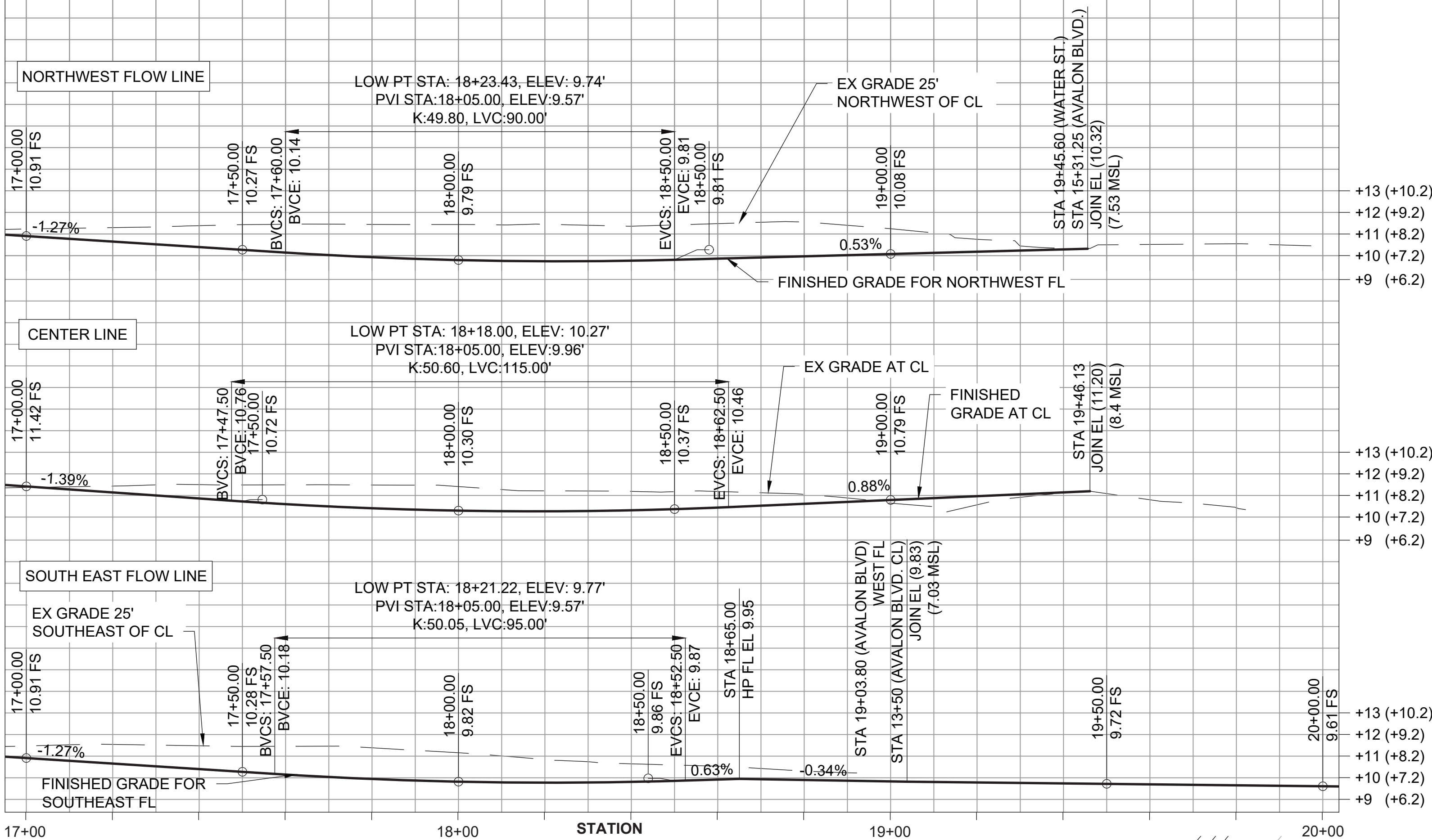
DESIGNED BY: FRANCISCO CAMAL  
 DRAWN BY: FRANCISCO CAMAL  
 CHECKED BY: ADRIENNE NEWBOLD  
 APPROVED BY: CHRISTINA SAR

VERTICAL CONTROL: BENCH MARKS AND BM# 24-02890 AND 24-02891 (SEE SHEET 13 FOR CONTROL LINE REFERENCES)  
 HORIZONTAL CONTROL: SEE PLAN SHEET 13 FOR CONTROL LINE REFERENCES

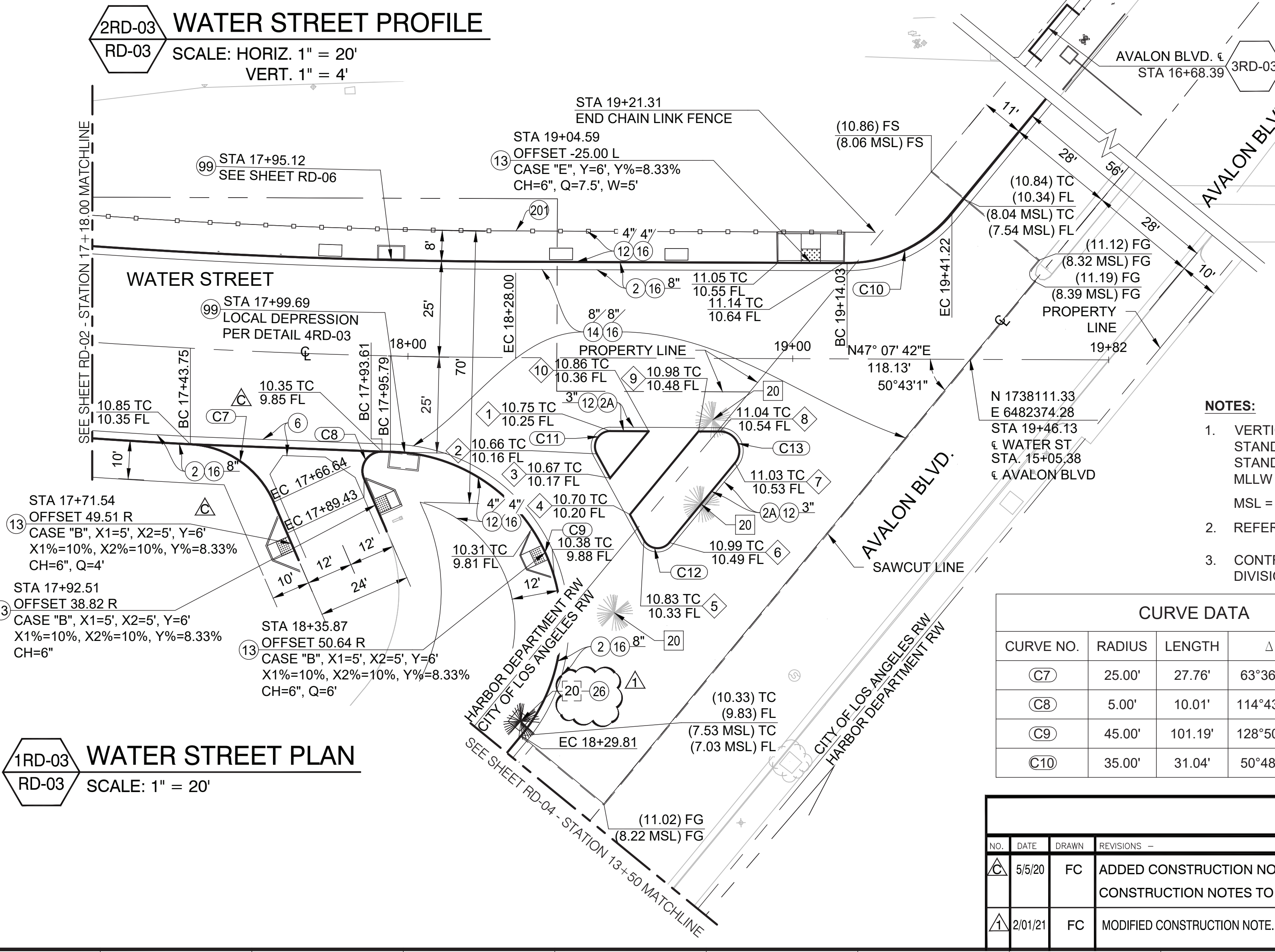
PROJECT NO. 1-3192  
 DRAWING NO. RD-0.2

SHEET 2 OF 13 SHEETS

REVISION DATES (DESIGN STAGE ONLY)



- ### CONSTRUCTION NOTES
- CONSTRUCT
  - ◻ EXISTING
  - ◻ REMOVE
  - REMODEL EXIST.
  - ◻ REMOVE & CONST.
  - WORK BY OTHERS
1. PRECAST CONCRETE CURB
  2. TYPE "C" INTEGRAL CURB & GUTTER, a=2', b=6", 6" C.F.
  - 2A. TYPE "E" INTEGRAL CURB & GUTTER, a=1', b=6", 6" C.F.
  6. CONCRETE INTERSECTION GUTTER, a=2', b=6", g=4"
  10. CONCRETE DRIVEWAY (AS SHOWN)
  12. CONCRETE WALK, t= AS NOTED
  13. CURB RAMP (AS SHOWN)
  14. ASPHALT CONCRETE PAVEMENT, t= AS NOTED
  16. CRUSHED MISCELLANEOUS BASE, t= AS NOTED
  20. TREE
  21. COLDPLANE (MILL) AC PAVEMENT
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  34. VARIABLE THICKNESS ASPHALT CONCRETE PAVEMENT
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  201. CHAIN LINK FENCE
  341. LIGHT POLE AND FOUNDATION
  601. RAIL
  602. RAILROAD SIGN
  603. RAILROAD CROSSING GATE



**PEDESTRIAN ISLAND POINT TABLE**

POINT NO.	NORTHING	EASTING	DESCRIPTION
1	1738033.83	6482318.72	BC
2	1738027.10	6482320.19	EC
3	1738024.85	6482327.02	
4	1738021.47	6482337.25	
5	1738019.10	6482344.46	BC
6	1738023.15	6482349.70	EC
7	1738049.89	6482348.02	BC
8	1738053.24	6482339.63	EC
9	1738049.40	6482335.50	
10	1738040.61	6482326.03	

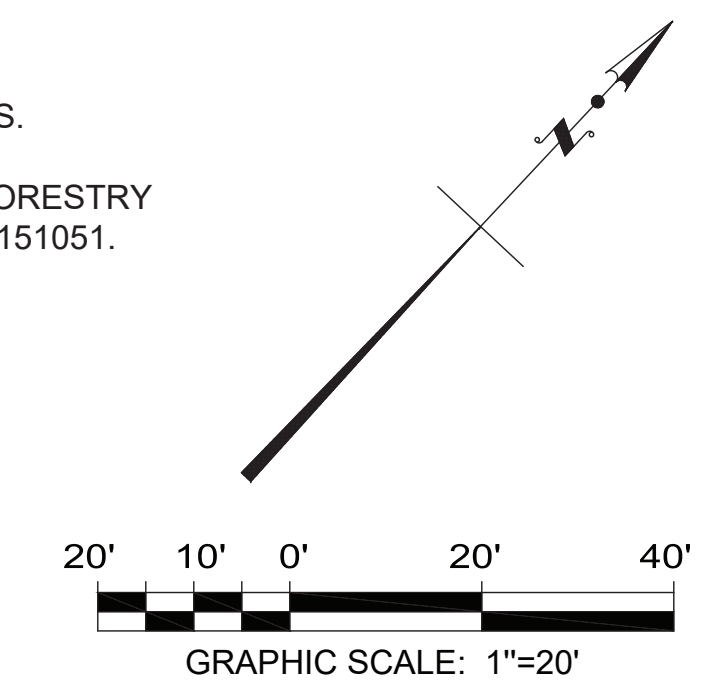
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 MLLW = MSL + 2.8FT  
 MSL = MLLW - 2.8FT
  2. REFERENCE SHEET RD-05 FOR WATER STREET & AVALON INTERSECTION ELEVATION DETAILS.
  3. CONTRACTOR SHALL COORDINATE WITH CITY OF LOS ANGELES STREET SERVICES URBAN FORESTRY DIVISION FOR REMOVAL OF TREES ON AVALON BLVD. PLEASE REFERENCE REQUEST #1-1003151051.

**CURVE DATA**

CURVE NO.	RADIUS	LENGTH	Δ	TANGENT
C7	25.00'	27.76'	63°36'51"	15.50'
C8	5.00'	10.01'	114°43'48"	7.81'
C9	45.00'	101.19'	128°50'08"	94.00'
C10	35.00'	31.04'	50°48'30"	16.62'

**PEDESTRIAN ISLAND CURVE DATA**

CURVE NO.	LENGTH	RADIUS	Δ	TANGENT
C11	8.30'	4.00'	118°53'08"	6.78'
C12	7.81'	4.00'	111°50'08"	5.91'
C13	11.28'	5.00'	129°16'44"	10.55'



**ENGINEERING**  
 CITY OF LOS ANGELES

**BUREAU OF ENGINEERING**

DATE: BY: \_\_\_\_\_

NO. REVISIONS: \_\_\_\_\_

APPROVAL: \_\_\_\_\_

CHECKED BY: (PRINTED NAME) \_\_\_\_\_ DATE \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

WORK ACCEPTED SERIAL NO. \_\_\_\_\_

INDEX NO. **P-38614**

B - PERMITS **BR600508**

THE PORT OF LOS ANGELES  
 DESIGN GROUP

ENGINEER: FRANCISCO CANAL  
 DESIGNED BY: FRANCISCO CANAL  
 DRAWN BY: FRANCISCO CANAL  
 CHECKED BY: ADRIENNE NEIBOLD  
 APPROVED BY: CHRISTINA SAR

2-13-19  
 CHIEF ENGINEER

2-13-19  
 CHIEF ENGINEER

2-13-19  
 CHIEF ENGINEER

REGISTERED PROFESSIONAL ENGINEER  
 CIVIL  
 No. C75602  
 STATE OF CALIFORNIA

**THE PORT OF LOS ANGELES  
 ENGINEERING DIVISION**  
 425 S. PALMS VERDES STREET SAN PEDRO CA 90731-3309

7/6/2020 DATE

ADRIENNE FEDRICK  
 ENGINEER/ARCHITECT SIGNATURE

PROJECT NO. **1-3192**

DRAWING NO. **RD-03**

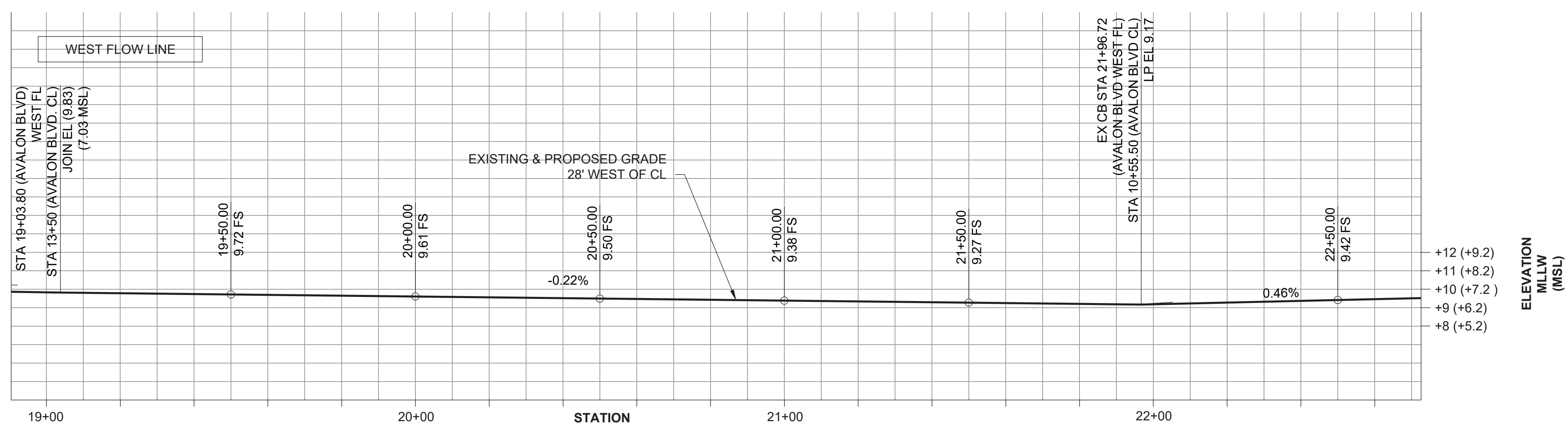
SHEET **3** OF **13** SHEETS

REVISION DATES (DESIGN STAGES ONLY)

### CONSTRUCTION NOTES

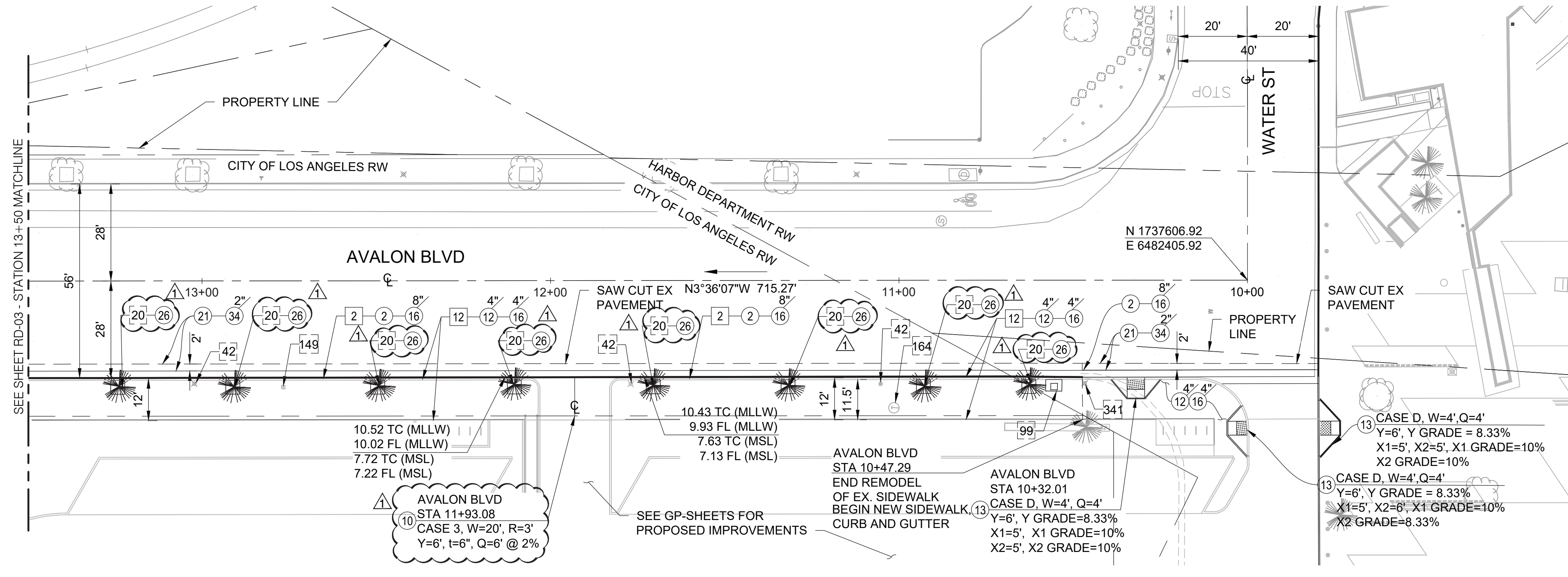
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- ◻ REMOVE & CONST.
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**2RD-04 AVALON BLVD. WEST FL PROFILE**  
RD-04 SCALE: HORIZ. 1" = 20'  
VERT. 1" = 4'

- NOTES:**
1. CONTRACTOR SHALL COORDINATE WITH CITY OF LOS ANGELES STREET SERVICES URBAN FORESTRY DIVISION FOR REMOVAL OF TREES ON AVALON BLVD. PLEASE REFERENCE REQUEST #1-1003151051.
  2. TREE REMOVAL: PRIOR TO ANY STREET TREE REMOVAL, A TREE REMOVAL PERMIT APPLICATION SHALL BE SUBMITTED TO THE URBAN FORESTRY DIVISION. STREET TREE REMOVAL PERMITS REQUIRE APPROVAL BY THE BOARD OF PUBLIC WORKS. BOARD APPROVAL MAY TAKE FROM 30-90 DAYS DEPENDING UPON PROJECT COMPLEXITY. IF APPROVED, THE TREE REMOVAL PERMIT OR COPY SHALL BE AT THE JOB SITE WHILE TREE WORK IS BEING PERFORMED
  3. WARNING TO B PERMITTEE: AS STATED, STREET TREE REMOVAL FOR ANY REASON, INCLUDING BUT NOT LIMITED TO STREET WIDENING, DRIVEWAY INSTALLATION, SIDEWALK RECONSTRUCTION, ETC, REQUIRES A TREE REMOVAL PERMIT APPROVED BY THE BOARD OF PUBLIC WORKS. STREET TREE REMOVAL WITHOUT A REMOVAL PERMIT IS A MISDEMEANOR. FAILURE TO DISCLOSE THE EXISTENCE OF A STREET TREE MAY RENDER YOUR B PERMIT VOID.



**1RD-04 AVALON BLVD. PLAN**  
RD-04 SCALE: 1" = 20'

**THE PORT OF LOS ANGELES**

NO.	DATE	DRAWN	REVISIONS	CHK'D	APP'D	NO.	DATE	DRAWN	REVISIONS	CHK'D	APP'D
1	3/19/20	FC	ADDED CONSTRUCTION NOTES 21 AND 34 TO LEGEND	AFN	HAE						
2	5/5/20	FC	ADDED CONSTRUCTION NOTE 6 TO LEGEND.	AFN	HAE						
3	2/01/21	FC	ADDED CONSTRUCTION NOTES TO PLAN VIEW. TREES TO REMAIN, INSTALL TREE WELL. MODIFIED DRIVEWAY DETAILS AT STA 11+93.08	AFN	HAE						

PROJECT NO. 1-3192  
 DRAWING NO. RD-04  
 SHEET 4 OF 13 SHEETS

REVISION DATES (DESIGN STAGES ONLY)  
 THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

**BUREAU OF ENGINEERING**

**DEPARTMENT OF PUBLIC WORKS**

THE PORT OF LOS ANGELES  
 ENGINEER: FRANCISCO CAMAL  
 DESIGNED BY: FRANCISCO CAMAL  
 DRAWN BY: FRANCISCO CAMAL  
 CHECKED BY: ADRIENNE NEWBOLD  
 APPROVED BY: CHRISTINA SAR

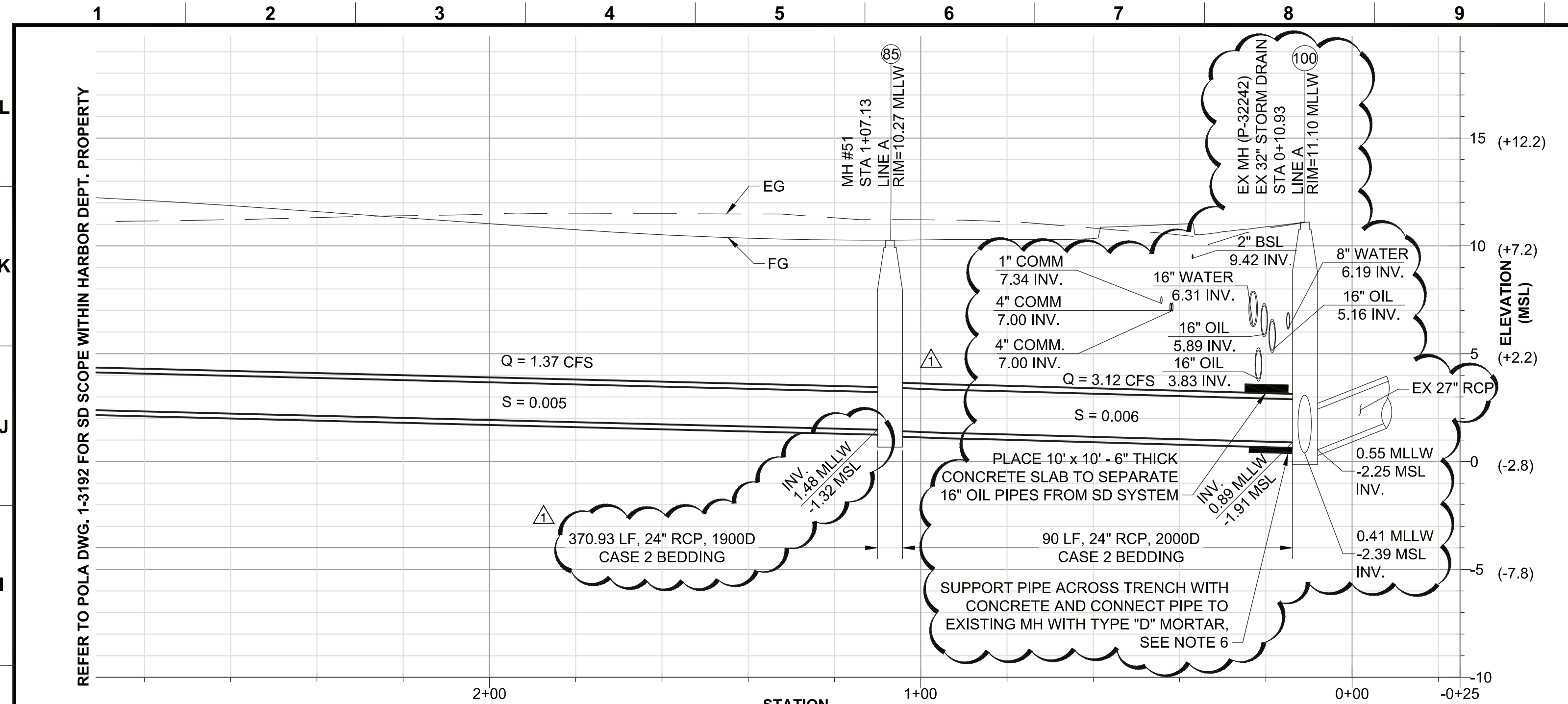
BUREAU OF ENGINEERING  
 DATE: BY:  
 APPROVAL:  
 CHECKED BY: (PRINTED NAME) DATE  
 SIGNATURE: DATE  
 WORK ACCEPTED  
 INDEX NO. P-38614  
 B - PERMITS BR600508

THE PORT OF LOS ANGELES  
 ENGINEERING DIVISION  
 425 S. PALMS VERDES STREET SAN PEDRO CA 90731-3309  
 7/6/2020 DATE  
 ADRIENNE FEDRICK ENGINEER/ARCHITECT SIGNATURE

SHEET TITLE: WATER STREET REALIGNMENT PLAN AND PROFILE  
 PROJECT: WILMINGTON WATERFRONT PROMENADE PROJECT  
 ADDRESS: 301 SOUTH AVALON BLVD. WILMINGTON, CA 90744

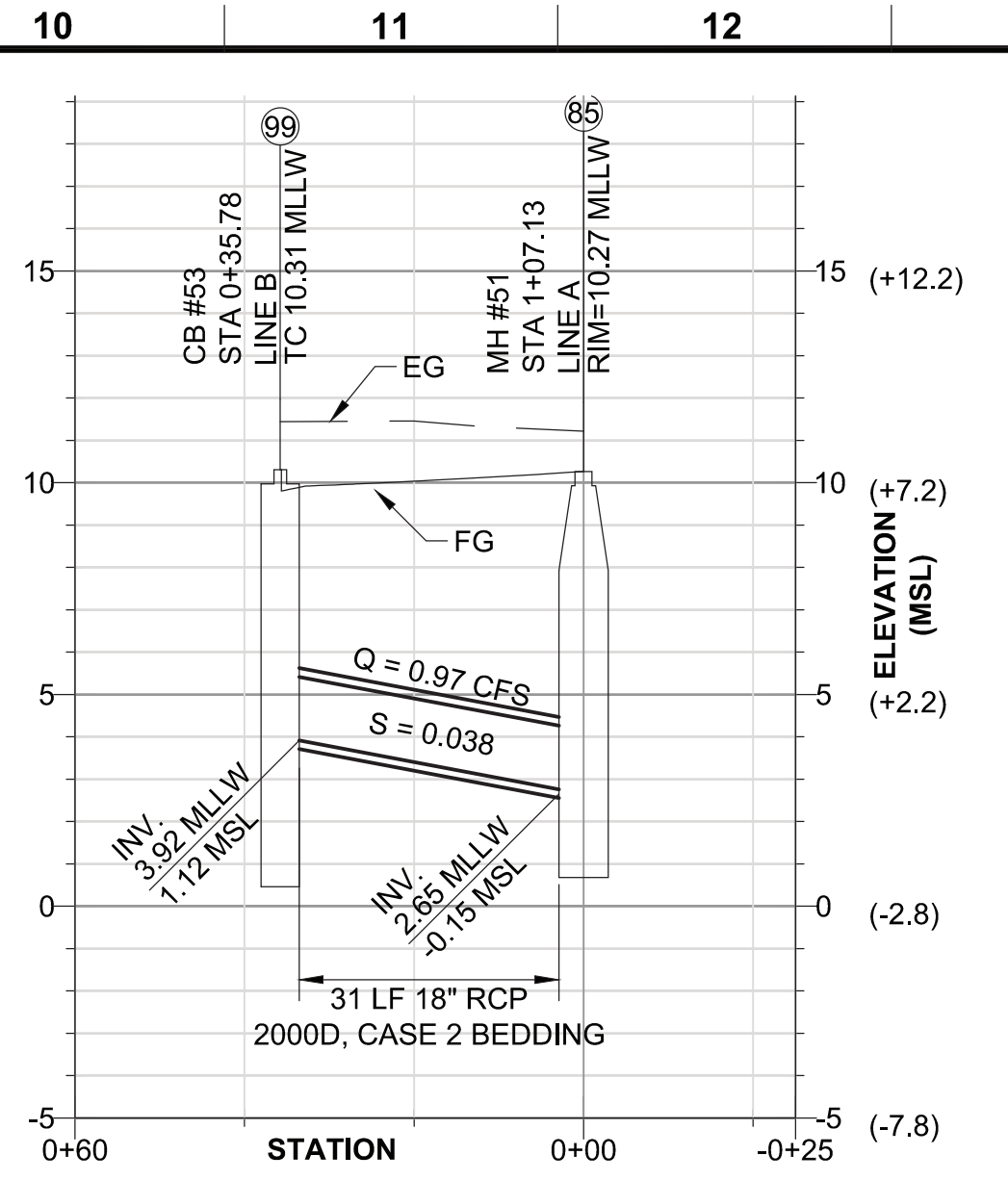
REVISION DATES (DESIGN STAGE ONLY)

REFER TO POLA DWG. 1-3192 FOR SD SCOPE WITHIN HARBOR DEPT. PROPERTY



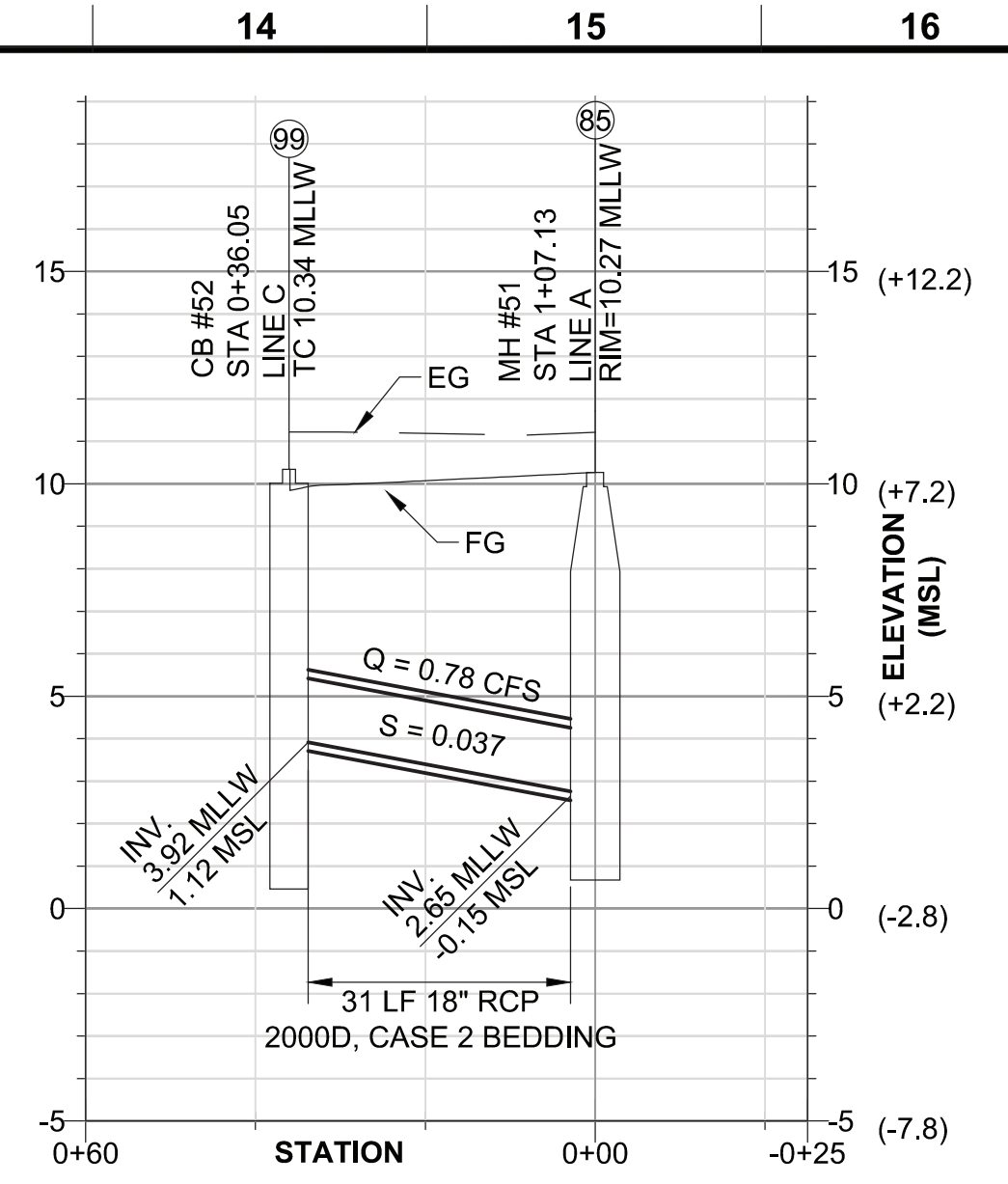
**2RD-06** **LINE A PROFILE**  
**1RD-06** SCALE: HORIZ. 1" = 20'  
 VERT. 1" = 4'

NOTE: ALL NEW CONSTRUCTED PIPES AND MAINTENANCE HOLES WILL BE OWNED AND MAINTAINED BY PORT OF LOS ANGELES.



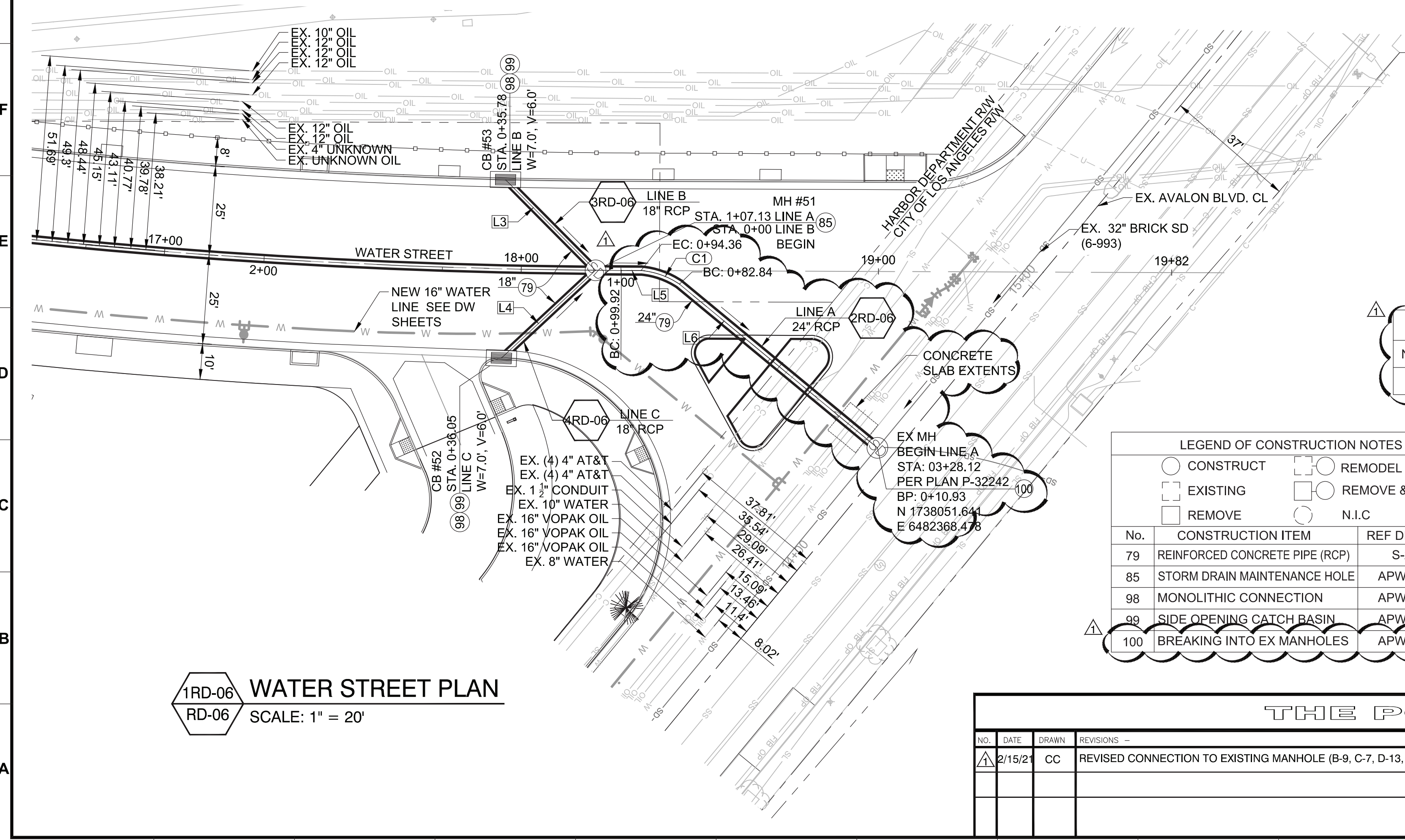
**3RD-06** **LINE B PROFILE**  
**1RD-06** SCALE: HORIZ. 1" = 20'  
 VERT. 1" = 4'

NOTE: ALL NEW CONSTRUCTED PIPES AND MAINTENANCE HOLES WILL BE OWNED AND MAINTAINED BY PORT OF LOS ANGELES.



**4RD-06** **LINE C PROFILE**  
**1RD-06** SCALE: HORIZ. 1" = 20'  
 VERT. 1" = 4'

NOTE: ALL NEW CONSTRUCTED PIPES AND MAINTENANCE HOLES WILL BE OWNED AND MAINTAINED BY PORT OF LOS ANGELES.



**1RD-06** **WATER STREET PLAN**  
**RD-06** SCALE: 1" = 20'

**CURVE DATA**

NO.	DELTA	LENGTH	RADIUS	TANGENT
C1	28°45'52"	11.52'	22.95'	5.88'

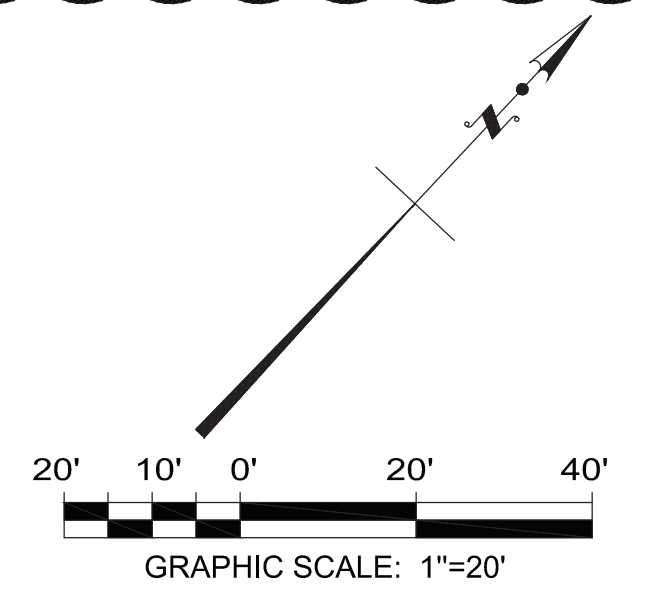
**LINE DATA**

NO.	BEARING	LENGTH
L3	N87° 52' 16"W	SEE PROFILE
L4	S3° 54' 15"W	SEE PROFILE
L5	S47° 07' 42"W	5.56'
L6	S86° 30' 38"W	71.91'

**LEGEND OF CONSTRUCTION NOTES**

No.	CONSTRUCTION ITEM	REF DRAWING
79	REINFORCED CONCRETE PIPE (RCP)	S-241-0
85	STORM DRAIN MAINTENANCE HOLE	APWA 321-2
98	MONOLITHIC CONNECTION	APWA 308-2
99	SIDE OPENING CATCH BASIN	APWA 300-3
100	BREAKING INTO EX MANHOLES	APWA 208-2

- NOTES:**
- SEE SHEET RD-03 FOR CATCH BASIN AND LOCAL DEPRESSION DETAIL.
  - RCP BEDDING PER CITY OF LA STD. PLAN S-251-1.
  - EXACT LOCATION AND SIZE OF EXISTING UTILITIES TO BE FIELD VERIFIED.
  - STORM DRAIN WILL BE MAINTAINED BY THE HARBOR DEPARTMENT UP TO THE PROPOSED JUNCTION STRUCTURE. JUNCTION STRUCTURE WILL BECOME THE RESPONSIBILITY OF LABOE. FLOWS ARE BASED ON A 50-YEAR STORM FREQUENCY.
  - CORE AND SEAL WITH MORTAR ANY CONNECTIONS TO EXISTING MAINTENANCE HOLES USING A CORE DIAMETER EQUAL TO OUTSIDE PIPE DIAMETER PLUS TWO INCHES.
  - ALL NEW CONSTRUCTED PIPES AND MAINTENANCE HOLES WILL BE OWNED AND MAINTAINED BY PORT OF LOS ANGELES.



**THE PORT OF LOS ANGELES**

NO.	DATE	DRAWN	REVISIONS	CHK'D	APP'D	NO.	DATE	DRAWN	REVISIONS	CHK'D	APP'D
1	2/15/21	CC	REVISED CONNECTION TO EXISTING MANHOLE (B-9, C-7, D-13, J-9, L-9).	AFN	HAZ						

**THE PORT OF LOS ANGELES**  
 425 S. PALMS VERDES STREET SAN PEDRO CA 90731-3309  
 ENGINEER/ARCHITECT SIGNATURE: ADRIENNE FEDRICK 7/6/2020 DATE

**REGISTERED PROFESSIONAL ENGINEER**  
 No. C75602 Exp. 06/30/20  
 CIVIL ENGINEER STATE OF CALIFORNIA

**ENGINEERING DIVISION**  
 PROJECT: WATER STREET STORM DRAIN PLAN AND PROFILE  
 PROJECT: WILMINGTON WATERFRONT PROMENADE  
 ADDRESS: 301 SOUTH AVALON BLVD. WILMINGTON, CA 90744

**DESIGN GROUP**  
 ENGINEER: CHRISTIAN CASTRO  
 DESIGNED BY: CHRISTIAN CASTRO  
 DRAWN BY: CHRISTIAN CASTRO  
 CHECKED BY: ADRIENNE NEWBOLD  
 APPROVED BY: ADRIENNE NEWBOLD

**PLANS PREPARED BY:**

**PROJECT NO. 1-3192**  
**DRAWING NO. RD-06**  
 SHEET 6 OF 13 SHEETS

**BUREAU OF ENGINEERING**

**ENGINEERING**  
 CITY OF LOS ANGELES  
 B - PERMITS  
 INDEX NO. P-38614  
 BR600508

DATE BY: \_\_\_\_\_  
 AS REVISED, MODIFIED VERTICAL CONTROL AND ADDRESS  
 CITY OF LOS ANGELES BENCHMARK BM# 24-02065 AND  
 BM# 24-02090  
 WORK ACCEPTED SERIAL NO. \_\_\_\_\_

BUREAU OF ENGINEERING APPROVAL: \_\_\_\_\_  
 CHECKED BY (PRINTED NAME) DATE: \_\_\_\_\_  
 SIGNATURE: \_\_\_\_\_

**DEPARTMENT OF PUBLIC WORKS**

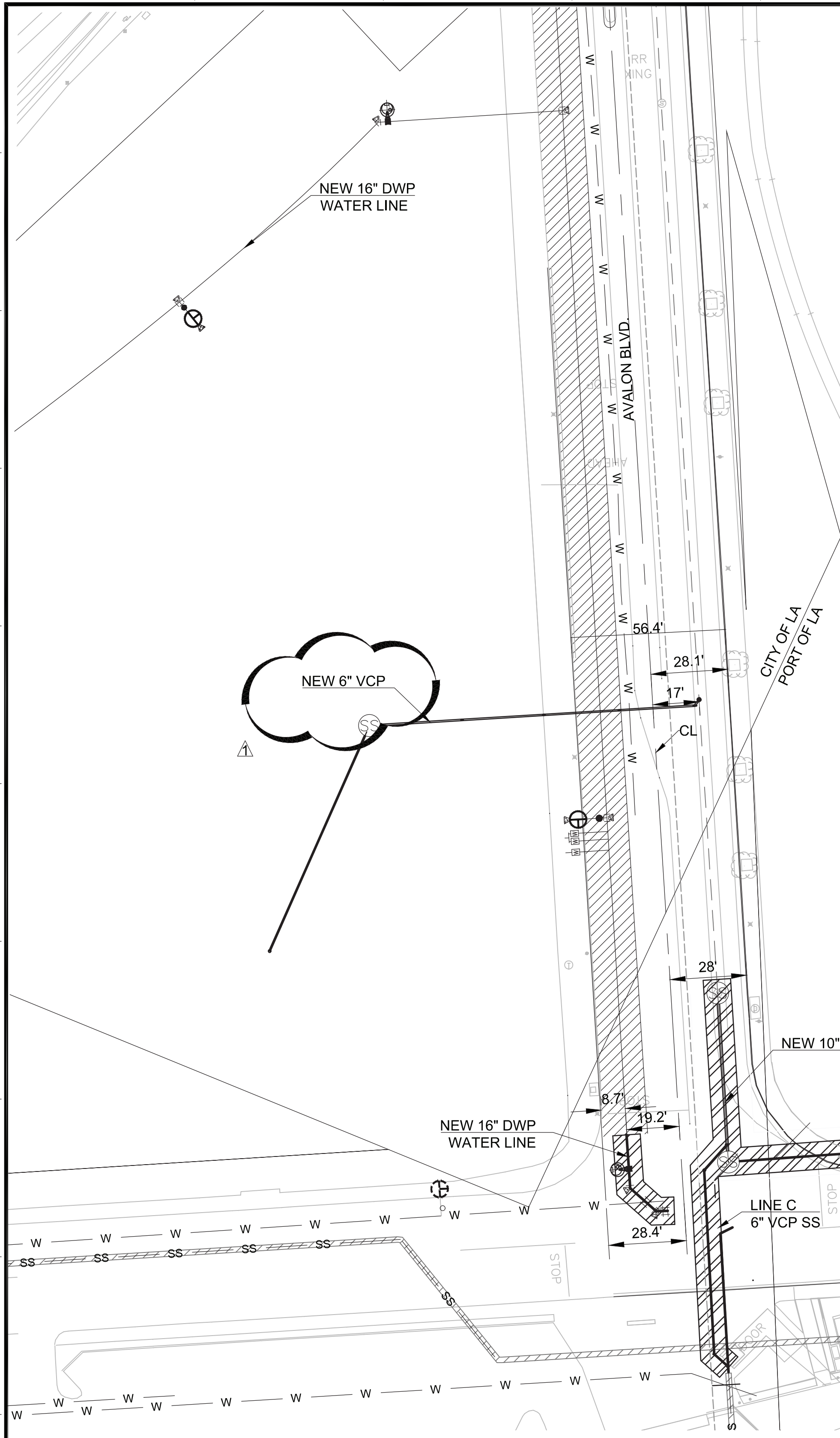
THE PORT OF LOS ANGELES

DESIGN GROUP: CHRISTIAN CASTRO  
 ENGINEER: CHRISTIAN CASTRO  
 DESIGNED BY: CHRISTIAN CASTRO  
 DRAWN BY: CHRISTIAN CASTRO  
 CHECKED BY: ADRIENNE NEWBOLD  
 APPROVED BY: ADRIENNE NEWBOLD

CHIEF OF DESIGN: \_\_\_\_\_  
 ASSISTANT CHIEF: \_\_\_\_\_  
 CHIEF ENGINEER: \_\_\_\_\_

**CITY OF LOS ANGELES**

PROJECT NO. 1-3192  
 DRAWING NO. RD-06  
 SHEET 6 OF 13 SHEETS



**GENERAL NOTES:**

1. THE CONTRACTOR MUST PREPARE TRAFFIC CONTROL PLANS PER THE LATEST CA MUTCD AND SUBMIT TO THE POLA ENGINEER FOR APPROVAL. PLANS MUST BE STAMPED AND SIGNED BY A REGISTERED TRAFFIC ENGINEER AND/OR CIVIL ENGINEER. PLANS MUST BE APPROVED PRIOR TO COMMENCEMENT OF WORK.
2. OBTAIN APPROVAL FROM THE ENGINEER AND THE TERMINAL OPERATOR FOR THE CONTRACTOR'S EQUIPMENT AND VEHICLE TRAFFIC ROUTES.
3. SCHEDULE LANE CLOSURES ON POLA STREETS TO AVOID CLOSURES DURING TIME PERIODS SUBJECT TO TRUCK QUEUING.
4. THE CONTRACTOR MUST COMPLY WITH THE TRAFFIC CONTROL MEASURES OF OTHER CONTRACTORS CONTROLLING PORTIONS OF THE SITE THROUGH WHICH HE TRAVELS AND ALLOW OTHER CONTRACTORS TO TRAVEL THROUGH PORTIONS OF THE SITE IN WHICH THE CONTRACTOR IS WORKING.
5. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS THROUGH THE SITE AT ALL TIMES.
6. THE CONTRACTOR SHALL MAINTAIN ONE LANE OF TRAFFIC OPEN IN EACH DIRECTION AT ALL TIMES.
7. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL DRIVEWAYS AND ADJACENT PROPERTIES AT ALL TIMES.
8. THE ENGINEER RESERVES THE RIGHT TO OBSERVE THE APPROVED TRAFFIC CONTROL PLANS IN USE AND TO MAKE NECESSARY CHANGES AS FIELD CONDITIONS WARRANT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ANY ADDITIONAL TRAFFIC CONTROL DEVICES NECESSARY TO ENSURE PUBLIC SAFETY AT ALL TIMES.
9. TRAFFIC CONTROL SHALL BE TORN DOWN DURING NONE WORKING HOURS.
10. EXCAVATIONS SHALL BE BACKFILLED OR PLATED DURING NONE WORKING HOURS. ASPHALT RAMP SHALL BE PLACED AROUND EACH TRENCH PLATE TO PREVENT PLATE FROM BEING DISLODGED. CONTRACTOR SHALL MONITOR TRENCH PLATES DURING NON-WORKING HOURS TO ENSURE PLATES ARE NOT DISLODGED. NONE SKID TRENCH PLATES SHALL BE USED ON AREAS OPEN TO VEHICULAR TRAFFIC.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR THE RESTORATION OF STRIPING AND PAVEMENT MARKINGS TO THE ORIGINAL CONDITION USING THERMOPLASTIC MATERIALS UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER. POLA WILL INSPECT AND APPROVE ANY CONTRACTOR MARK OUT PRIOR TO THE FINAL INSTALLATION OF STRIPING BY THE CONTRACTOR.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EQUIPMENT SUCH AS CONDUIT, INTERCONNECTS, OR FIBER OPTICS.
13. INSTALL, MAINTAIN AND REMOVE ALL DEVICES SHOWN ON THE PLANS (I.E. STRIPING, SIGNAGE, BARRIERS, FLAG PERSONS AND BARRICADES).
14. THE CONTRACTOR/PERMITTEE SHALL BE ON SITE AT ALL TIMES TO MAINTAIN TRAFFIC CONTROL DEVICES DURING IMPLEMENTATION.
15. DETOUR ROUTES SHALL BE PROVIDED FOR IMPACTED TRAVEL ROUTES.
16. DETOUR ROUTES ON NON-POLA PROPERTY SHALL BE COORDINATED WITH LADOT.
17. SEE B-PERMIT SHEET FOR CITY OF LA TRAFFIC CONTROL PLANS

**TC LEGEND**

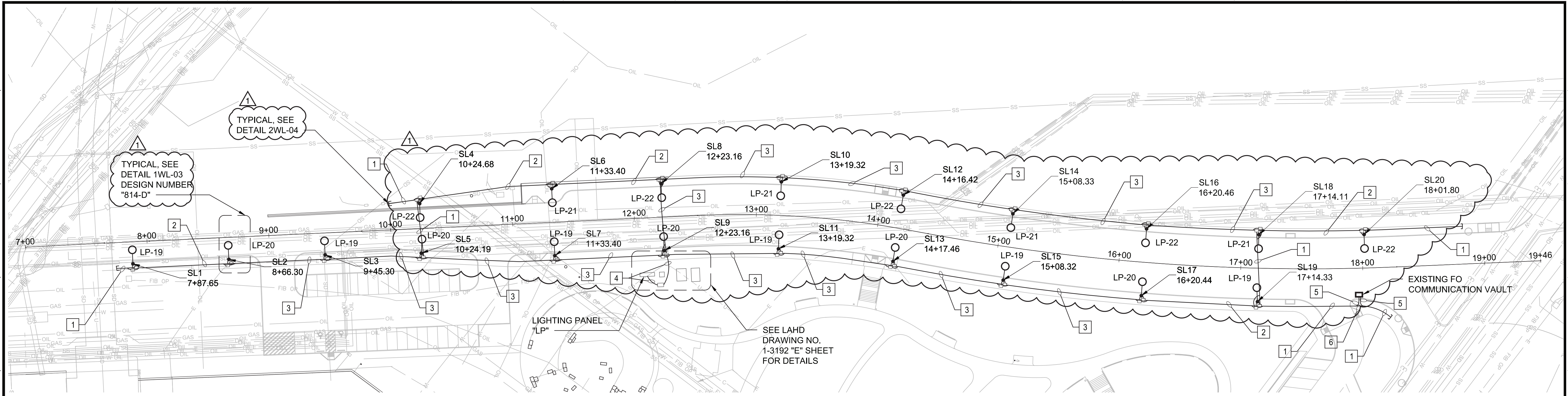
- SEE TC B PERMIT SHEET (LADOT)
- CONTRACTOR SHALL PROVIDE TC PER GENERAL NOTES

**1TC-00 TRAFFIC CONTROL REQUIREMENTS**  
 TC-00 SCALE: 1" = 30'



NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D	NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D	SCALE: AS SHOWN	DRAWN: L. MARTIN	CHECKED: A. NEWBOLD	DESIGNED: L. MARTIN	ENGINEER / ARCHITECT	Adrienne Newbold	CHIEF OF DESIGN	Sue Lee	ASSISTANT CHIEF HARBOR ENGINEER	DATE: 12-18-20	CHIEF HARBOR ENGINEER	WILMINGTON WATERFRONT PROMENADE	TRAFFIC CONTROL PLAN	DRAWING NUMBER	SHEET NUMBER
1	1/20/2	LM	EDITED LEADER TEXT	AFN	HAZ																				1-3192	TC-00

DWG: N:\cad\project\1-3192 Wilmington Waterfront Promenade\Production\Traffic Control\1-3192 POLA TC.dwg USER: mearini  
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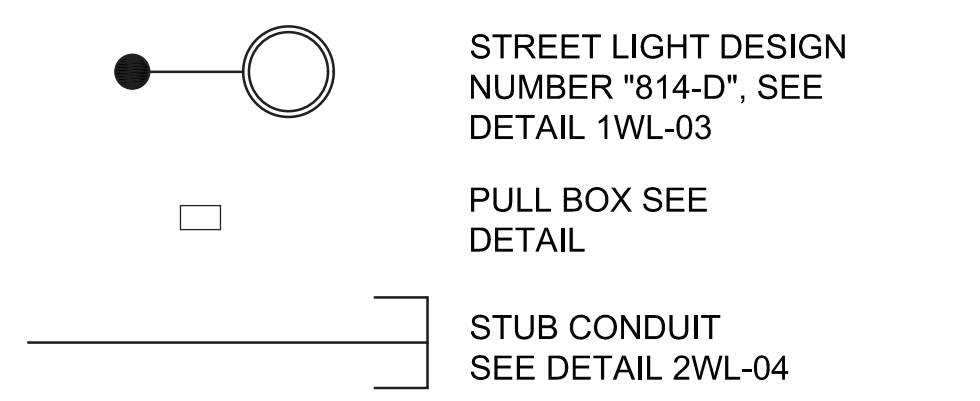


**1WL-02 WATER STREET LIGHT PLAN**  
 1WL-02 SCALE: 1"=40'



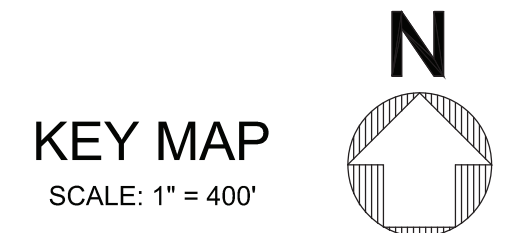
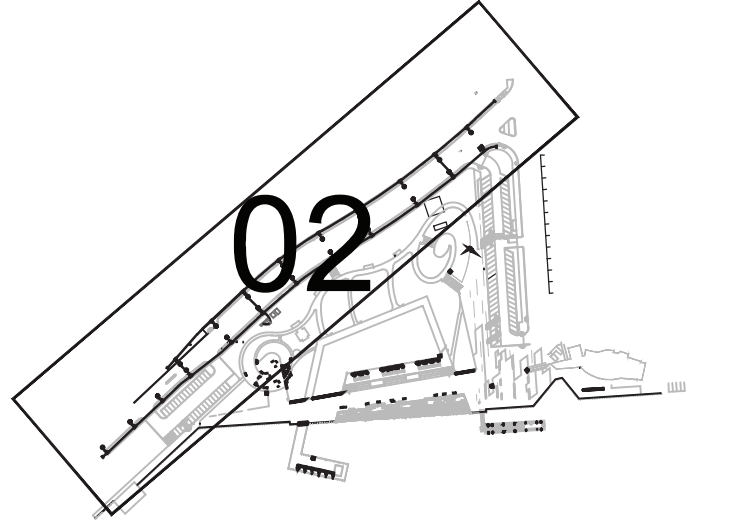
**LEGEND**

W	W	(EX) WATER LINE
SD	SD	(EX) STORM DRAIN LINE
SS	SS	(EX) SEWER LINE
GAS	GAS	(EX) GAS LINE
OIL	OIL	(EX) OIL LINE
E	E	(EX) ELECTRICAL LINE
TEL	TEL	(EX) TELEPHONE LINE
FIB OP	FIB OP	(EX) FIBER OPTIC LINE
		CONDUIT SEE DETAIL 1WL-04



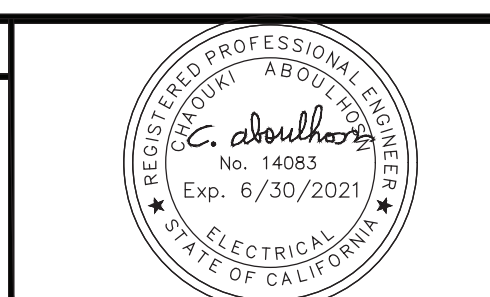
**KEY NOTES**

NO	DESCRIPTION
1	(2)2" CO(E)
1	(2)2" CO(COM)
2	2" 2#8 AND 1#8GND
2	(2)2" CO(E)
2	(2)2" CO(COM)
2	2" 4#8 AND 1#8GND
3	(2)2" CO(E)
3	(2)2" CO(COM)
4	2" 8#8 AND 1#8GND
4	(2)2" CO(E)
5	(2)2" CO(COM)
6	(2)2" CO(E)



NO.	DATE	DRAWN	REVISIONS	CHKD	APPD
1	12/9/20	MA	UPDATED KEY NOTE #4, STUB CONDUIT NOTE, STREET LIGHT NOTE AND LOCATIONS, AND ADDED PULL BOX.	DH	SBH

NO.	DATE	DRAWN	REVISIONS	CHKD	APPD



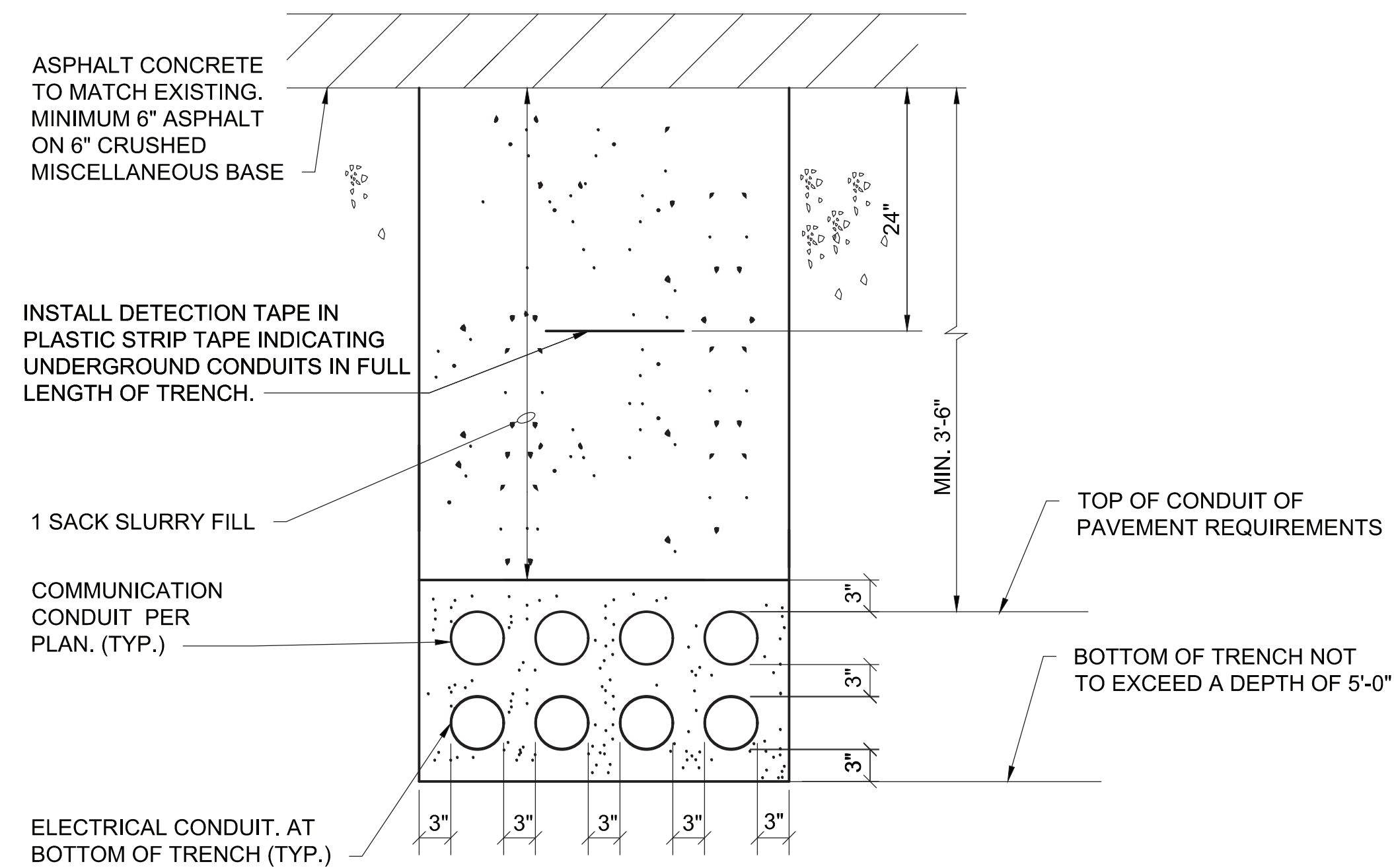
SCALE: AS SHOWN  
 DRAWN: D. HOANG  
 CHECKED: S. ABLOUHOSN  
 DESIGNED: D. HOANG  
 ENGINEER / ARCHITECT  
 S. Aboulhoss

CHIEF OF DESIGN  
*Sal Zambano*  
 ASSISTANT CHIEF HARBOR ENGINEER  
*Paul Lee*  
 CHIEF HARBOR ENGINEER  
 DATE: 2-18-20

WILMINGTON WATERFRONT PROMENADE  
**WATER STREET LIGHT - PLAN**  
 THE PORT OF LOS ANGELES  
**ENGINEERING DIVISION**  
 425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER: 1-3192  
 SHEET NUMBER: WL-02

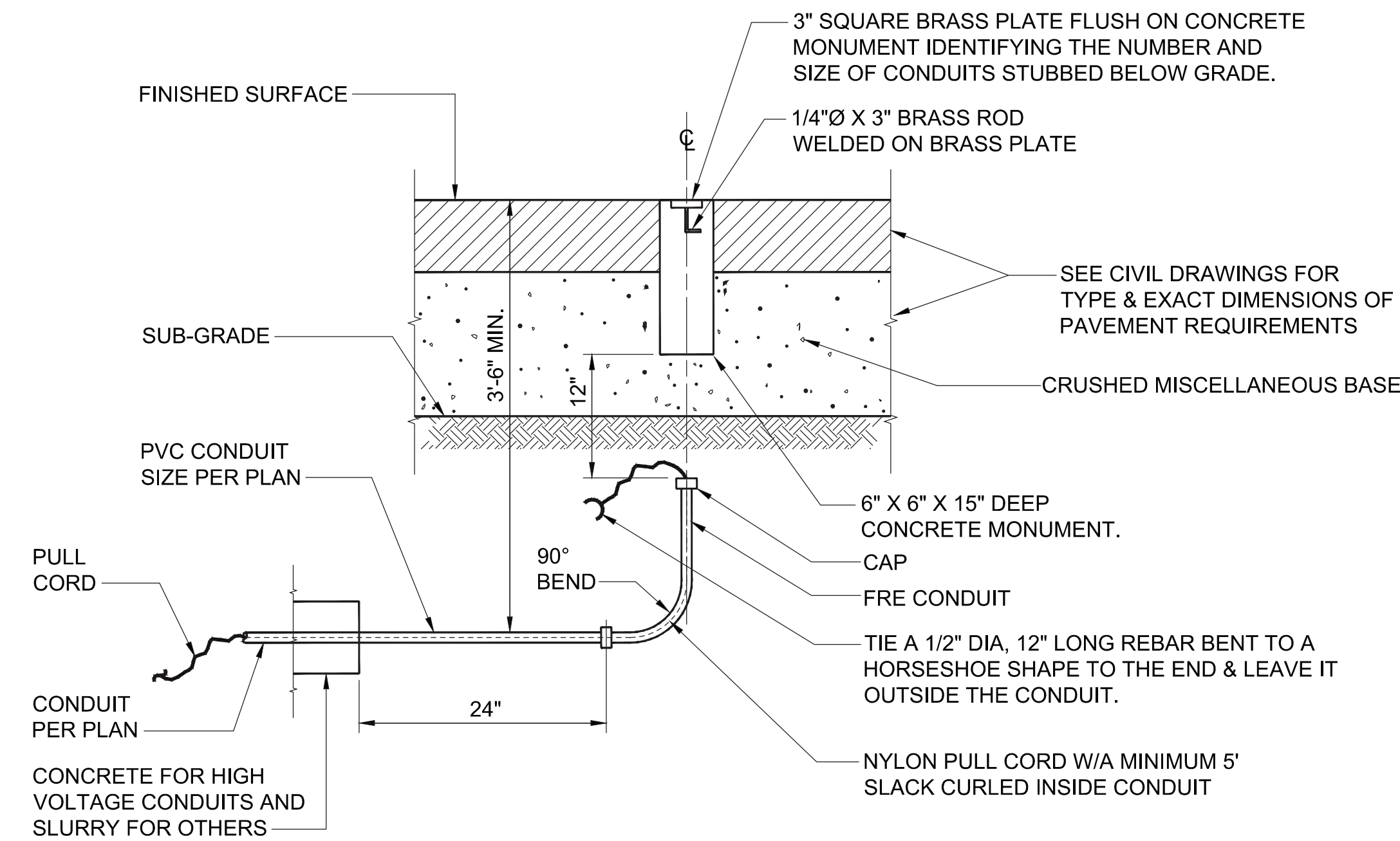
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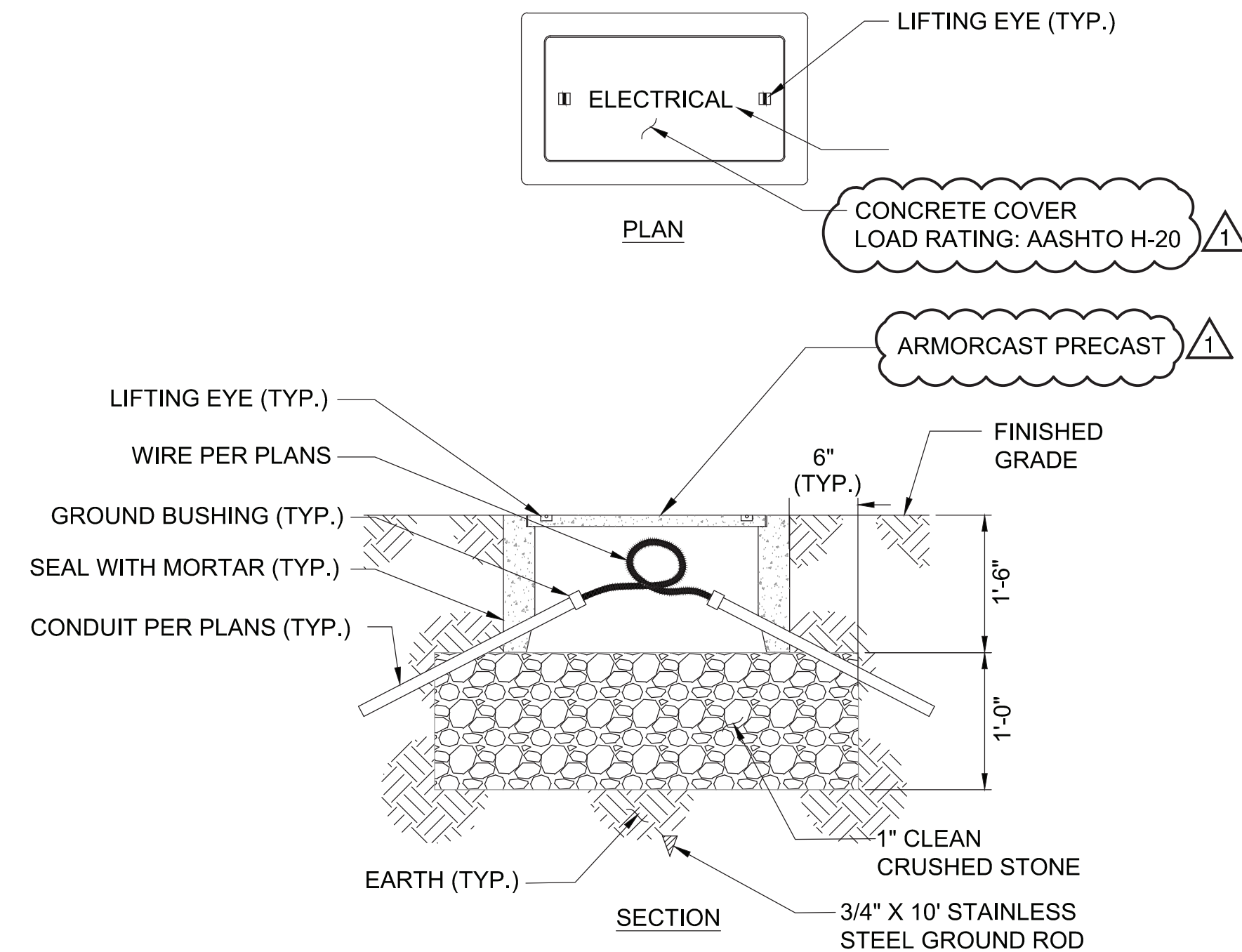
**NOTES:**

1. EXCAVATION SAFETY, USE SHORING IF REQUIRED PER. CAL OSHA
2. FOR ALL CONDUITS SIZES AND TOTAL NUMBER, SEE PLANS.
3. DEPTH AS NEEDED. SEE GEN. NOTE #10 ON SHEET E-01

**1WL-04** TYPICAL COMMUNICATION/LOW VOLTAGE UNDERGROUND CONDUIT SECTION  
**WL-02** SCALE: NONE



**2WL-04** SECTION-BELOW GRADE CONDUIT STUB (TYP)  
**WL-02** SCALE: NONE



WHEEL LOAD	INSIDE DIMENSION	MANUFACTURER	COVER DETAILS	REMARKS
AASHTO H-20	2'X3'	ARMORCAST NO. A6001974TAPCX24	CONCRETE COVER, PART OF UTILITY BOX WITH AASHTO H-20 LOADING. 1" CONCRETE STAMP ON LID WITH DESCRIPTION	ELECTRICAL
AASHTO H-20	2'X3'	ARMORCAST NO. A6001974TAPCX24	CONCRETE COVER, PART OF UTILITY BOX WITH AASHTO H-20 LOADING. 1" CONCRETE STAMP ON LID WITH DESCRIPTION	COMMUNICATION

**3W-04** PRECAST CONCRETE PULL BOX DETAIL  
**WL-02** SCALE: NONE

NO.	DATE	DRAWN	REVISIONS -	CHKD	APPD	NO.	DATE	DRAWN	REVISIONS -	CHKD	APPD
1	12/15/20	MA	UPDATED PRECAST CONCRETE PULL BOX DETAIL	DH	SBH						



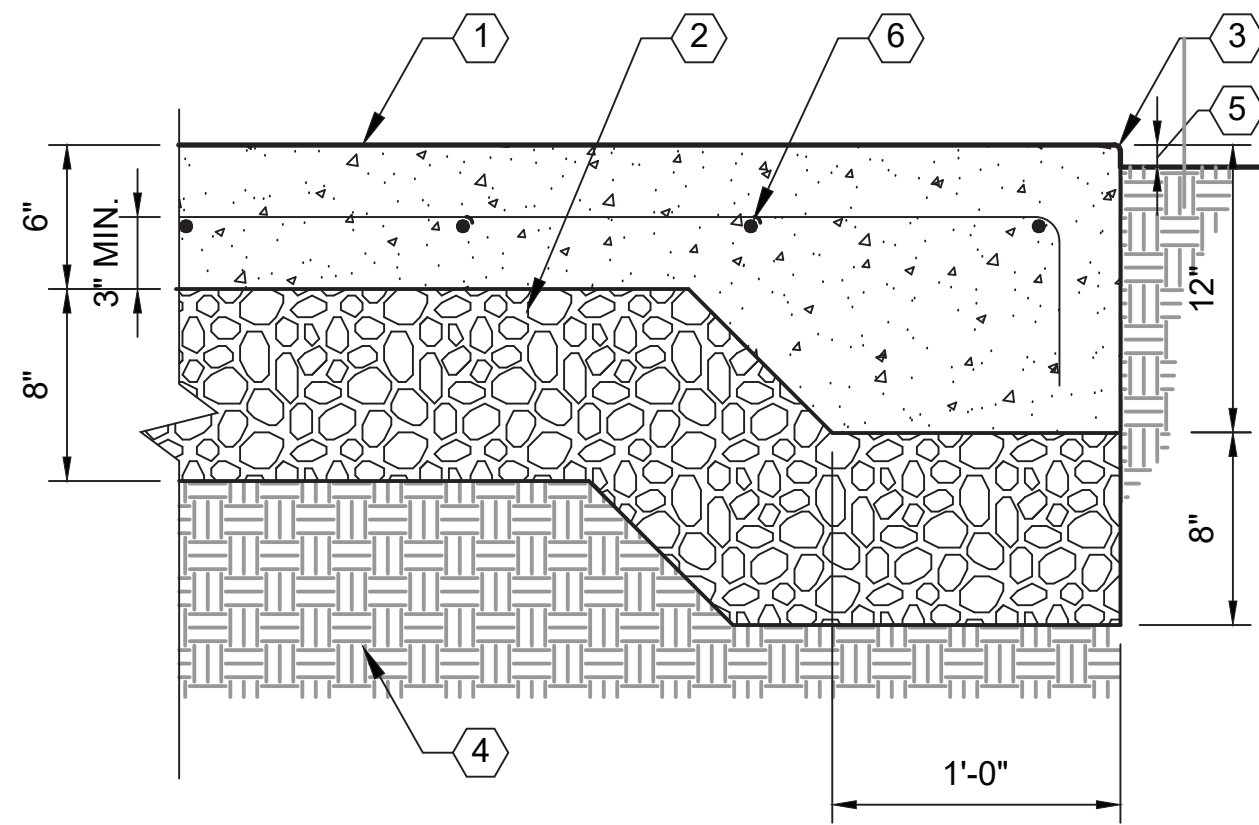
SCALE: AS SHOWN	CHIEF OF DESIGN <i>Sal Zambano</i>
DRAWN: D. HOANG	ASSISTANT CHIEF HARBOR ENGINEER <i>Sal Zambano</i>
CHECKED: S. ABLOUHOSN	
DESIGNED: D. HOANG	
ENGINEER / ARCHITECT <i>C. Aboulhoss</i>	CHIEF HARBOR ENGINEER <i>Sal Zambano</i>

WILMINGTON WATERFRONT PROMENADE  
**WATER STREET LIGHT - DETAILS**

THE PORT OF LOS ANGELES  
**ENGINEERING DIVISION**  
 425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER: 1-3192  
 SHEET NUMBER: WL-04

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 DATE: Feb 09, 2021 9:01am

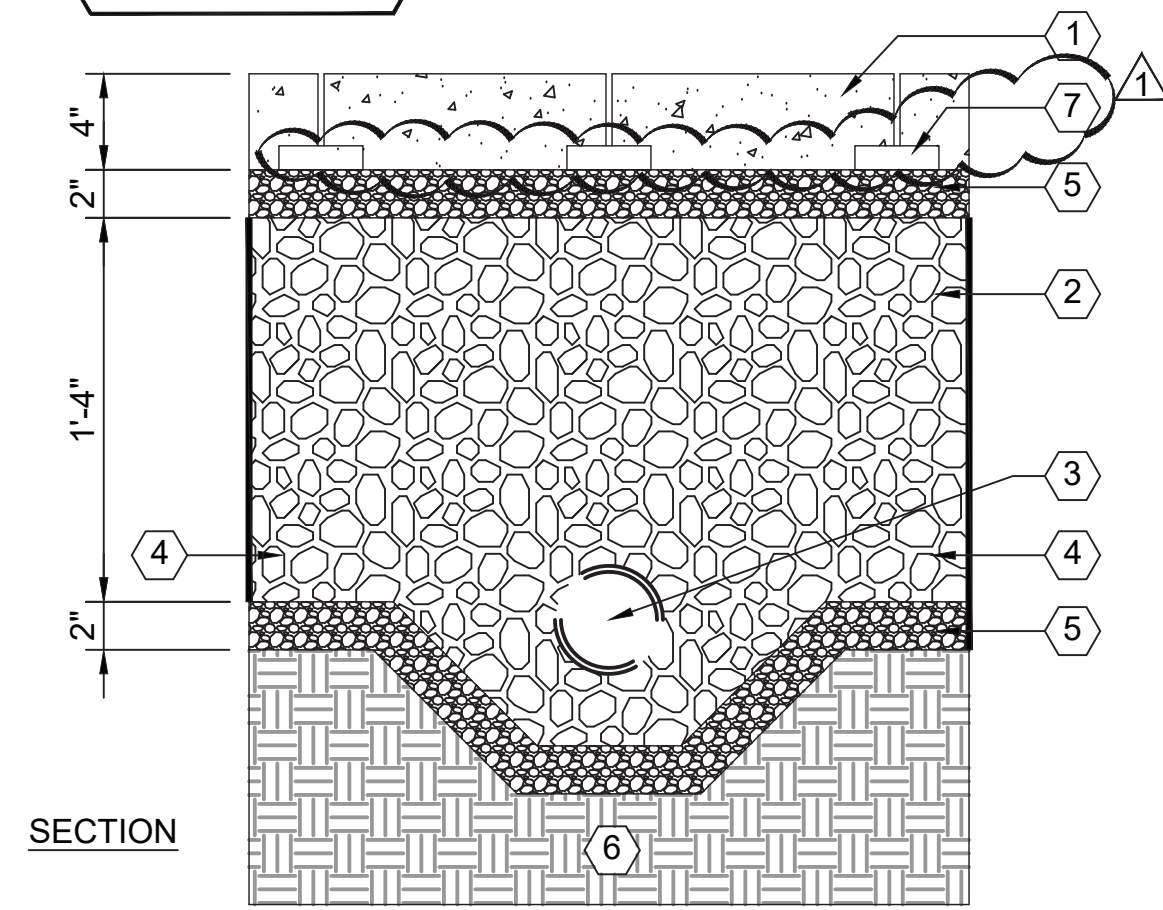


SECTION

LEGEND

1. CIP CONCRETE. COLOR AND FINISH VARIES, SEE PLANS AND SPECIFICATIONS
2. CRUSHED MISCELLANEOUS BASE
3. 1/4" RADIUS AT ALL EXPOSED EDGES
4. COMPACTED SUBGRADE
5. 1" TO FINISH GRADE AT LAWN, 1-1/2" AT GROUND COVER, FLUSH WITH ADJACENT PAVING
6. #4 REBAR @ 12" OC EACH WAY

**1LD-01 CIP CONCRETE PAVING**  
LM-01 TO LM-06 HJ-00 TO HJ-05 SCALE: 1 1/2" = 1'-0"



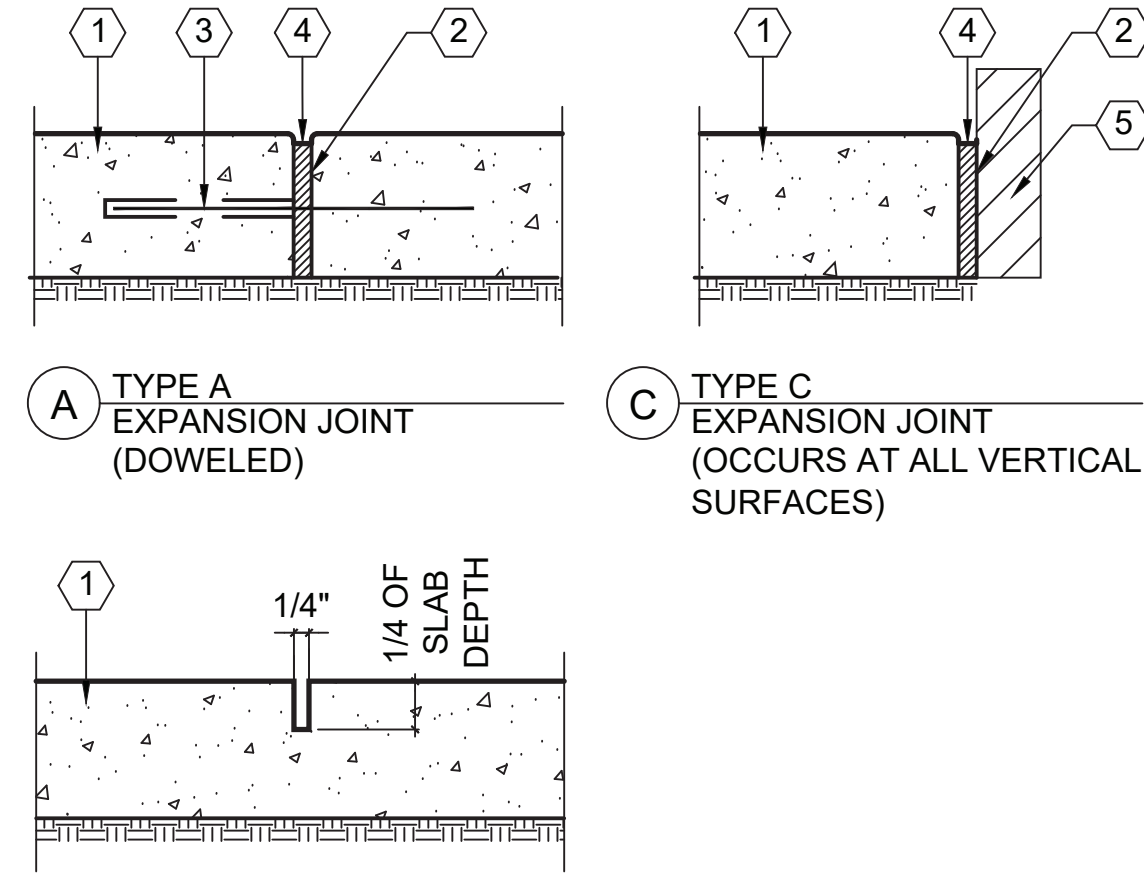
SECTION

LEGEND

1. PERMEABLE PAVER SYSTEM WITH AGGREGATE JOINTS, PER SPECIFICATIONS
2. CLEAN DOUBLE WASHED #57 STONE, RESERVOIR LAYER
3. 6" PERFORATED HDPE UNDERDRAIN
4. IMPERMEABLE LINER
5. 2" - 4" CHOKER STONE FILTER LAYER
6. COMPACTED SUBGRADE
7. 1/8" THICK SPACER PER MANUFACTURER RECOMMENDATIONS

NOTE  
A. SEE HJ PLANS AND LD-06 FOR LAYOUT

**5LD-01 PERMEABLE PAVERS**  
LM-01, LM-02, LM-04, AND LM-05 HJ-00 TO HJ-02, HJ-04, AND HJ-05 SCALE: 1 1/2" = 1'-0"

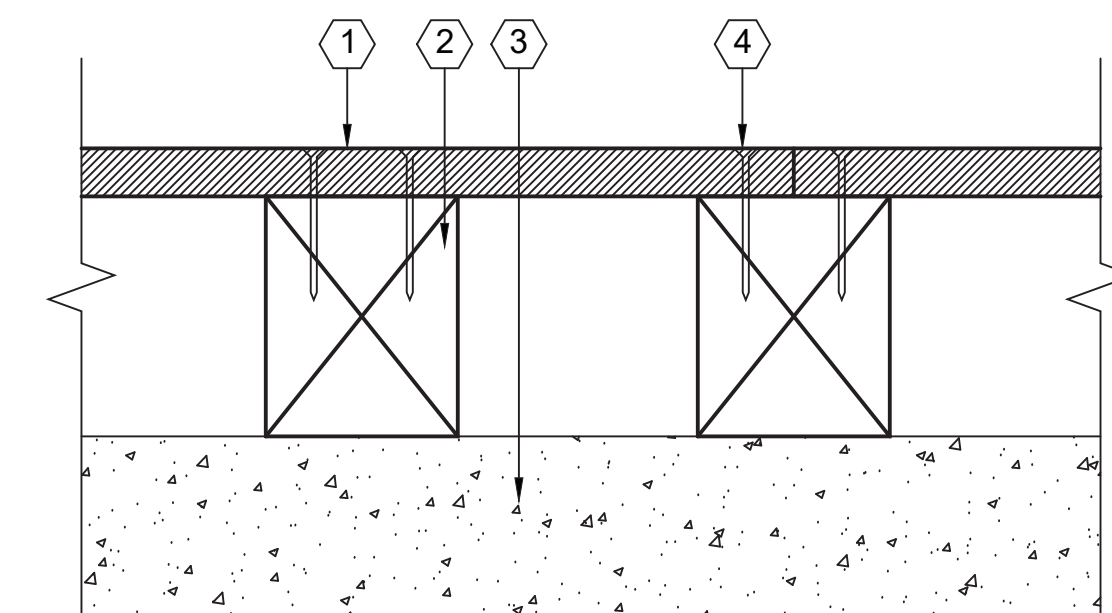


SECTION

LEGEND

1. CONCRETE PAVING OR SUB-SLAB (SEE DT1LD-01)
2. 3/8" EXPANSION FIBER BOARD
3. 18" SMOOTH STEEL DOWEL 24" O.C., SLEEVE ONE END, CENTER IN CONCRETE
4. SEALANT
5. ADJACENT VERTICAL SURFACE

**2LD-01 CONCRETE PAVING JOINTS**  
HJ-00 TO 06 SCALE: 3" = 1'-0"



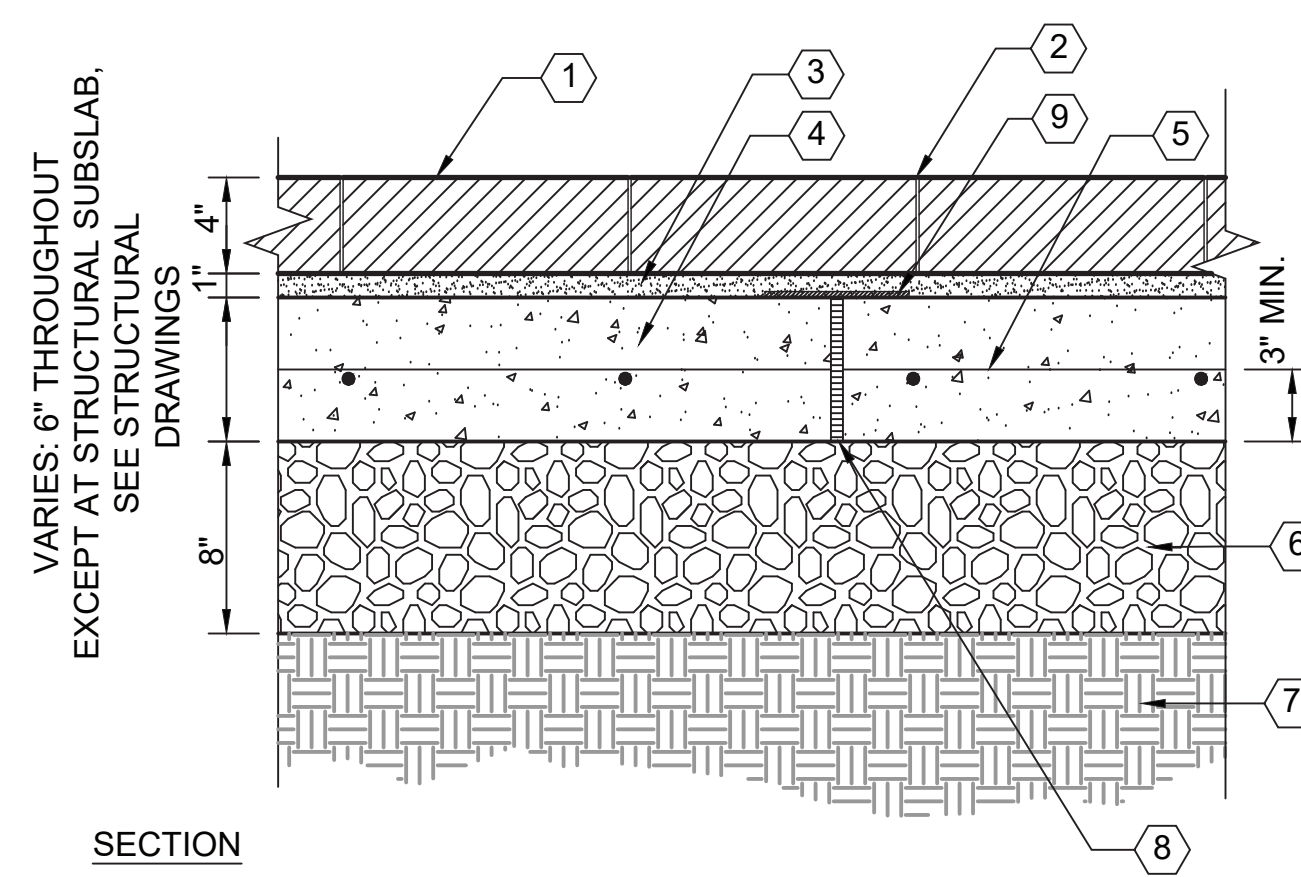
SECTION

LEGEND

1. 2"X4" IPE DECKING WITH 1/8" JOINTS
2. 8"X10" PRESSURE TREATED STRINGER, SEE PD SERIES
3. CONCRETE PILE CAP BEAM, SEE PD SERIES
4. 1/4" x 6" SS DECKING SCREW, COUNTERSUNK WITH IPE WOOD PLUG

NOTES  
A. SEE LD-07 FOR LAYOUT OF DECKING AND BOLTING PATTERN  
B. SEE 3LD-16 AND 4LD-16 FOR DECKING EDGE  
C. SEE 6LD-02 FOR DECKING EDGE AT PIER NETTING  
D. SEE PD SERIES FOR STRINGER LAYOUT AND ATTACHMENTS

**6LD-01 WOOD DECKING**  
LM-01 AND LM-02 HJ-01 AND HJ-02 SCALE: 1 1/2" = 1'-0"



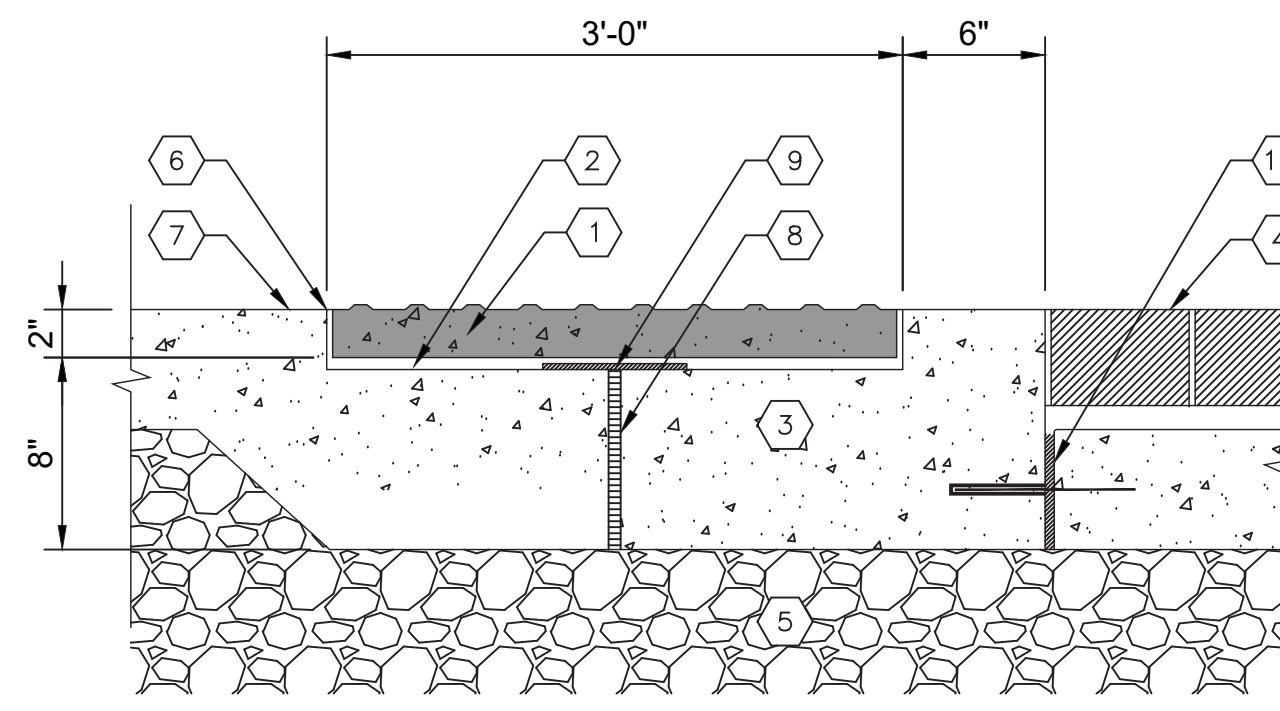
SECTION  
LEGEND

1. 3"x12"x4" CONCRETE UNIT PAVERS
2. SAND SWEPT BUTT JOINT
3. SAND SETTING BED
4. CONCRETE SUB SLAB
5. #4 REBAR @ 12" OC EACH WAY
6. CRUSHED MISCELLANEOUS BASE
7. COMPACTED SUBGRADE
8. WEEP HOLES @ 24" OC AND AT LOW POINTS
9. GEOTEXTILE FABRIC

NOTES

- A. SEE LD-04, LD-05 FOR LAYOUT
- B. SEE DT 4LD-01 FOR EDGE CONDITION
- C. COORDINATE WITH STRUCTURAL SUBSLAB

**3LD-01 CONCRETE UNIT PAVERS**  
LM-01 TO LM-02 HJ-00 TO HJ-02 SCALE: 1 1/2" = 1'-0"

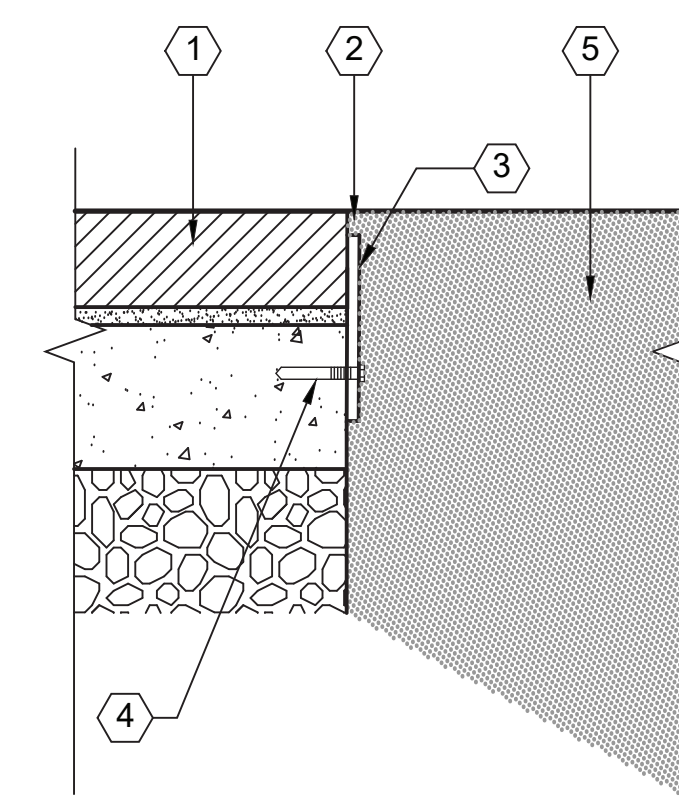


SECTION

LEGEND

1. 3"X2" PRECAST CONCRETE TRUNCATED DOME PAVERS
2. MORTAR SETTING BED
3. CIP CONCRETE BASE
4. ADJACENT PAVEMENT, SEE LM SERIES
5. CRUSHED MISCELLANEOUS BASE
6. MORTAR JOINT
7. CIP CONCRETE PAVING, SEE LM SERIES FOR COLOR AND FINISH
8. WEEP HOLE @ 18" O.C. AND LOW POINTS FILLED WITH PEASTONE
9. GEOTEXTILE FABRIC
10. EXPANSION JOINT (SEE DT 2LD-01)

**7LD-01 TRUNCATED DOME PAVERS**  
LM-01, LM-02, AND LM-05 SCALE: 1 1/2" = 1'-0"

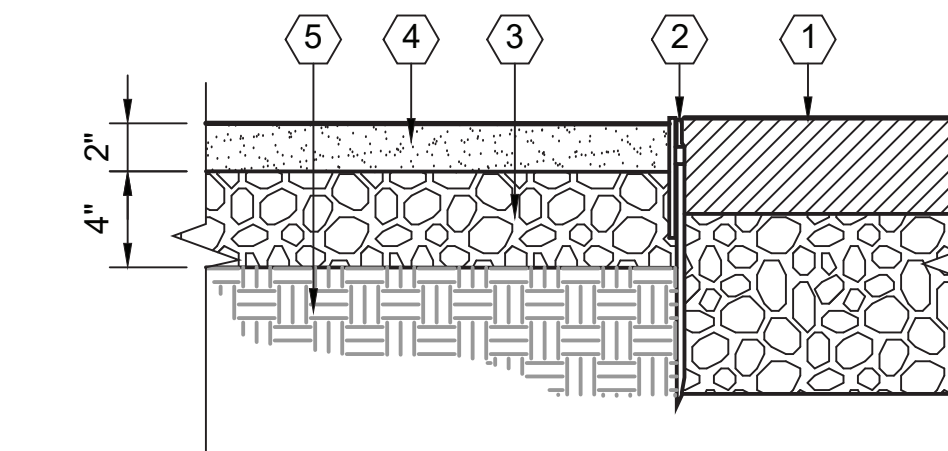


SECTION

LEGEND

1. CONCRETE UNIT PAVERS (SEE DT 3LD-01)
2. SET METAL EDGE 1" BELOW FINISHED GRADE
3. 1/4"x8" CONTINUOUS STEEL EDGING
4. SS ANCHOR BOLT, COORDINATE WITH LIGHT RAIL (DT 1LD-21)
5. PLANTED AREA OR DECOMPOSED GRANITE PAVING

**4LD-01 METAL HEADER**  
LM-01,2 SCALE: 1 1/2" = 1'-0"



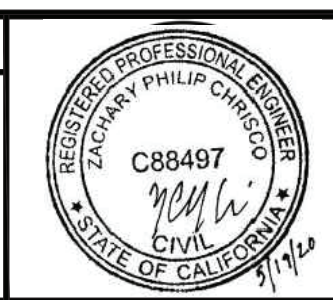
SECTION

LEGEND

1. PLANTED AREA OR PAVING, SEE PLANS
2. METAL EDGE WITH 18" TAPERED STEEL STAKES @ 30" O.C.
3. CRUSHED MISCELLANEOUS BASE
4. DECOMPOSED GRANITE, HOLD SURFACE ELEVATION 1/4" BELOW ADJOINING HEADING OR PAVING
5. COMPACTED SUBGRADE

**8LD-01 DECOMPOSED GRANITE PAVING**  
LM-01 AND LM-04 SCALE: 1 1/2" = 1'-0"

NO.	DATE	DRAWN	REVISIONS -	CHKD	APPD	NO.	DATE	DRAWN	REVISIONS -	CHKD	APPD
1	4/21/20	ZC	REVISED 1LD-01 LEGEND (G2)	ZPC	ZPC	2	2/16/21	DFB	REVISED 5LD-01 PER RFI-009	DFB	ZPC



SCALE: AS SHOWN  
DRAWN: D. FERNANDEZ, P. DUGDALE  
CHECKED: K. TOOKE  
DESIGNED: Z. CHRISCO  
ENGINEER / ARCHITECT

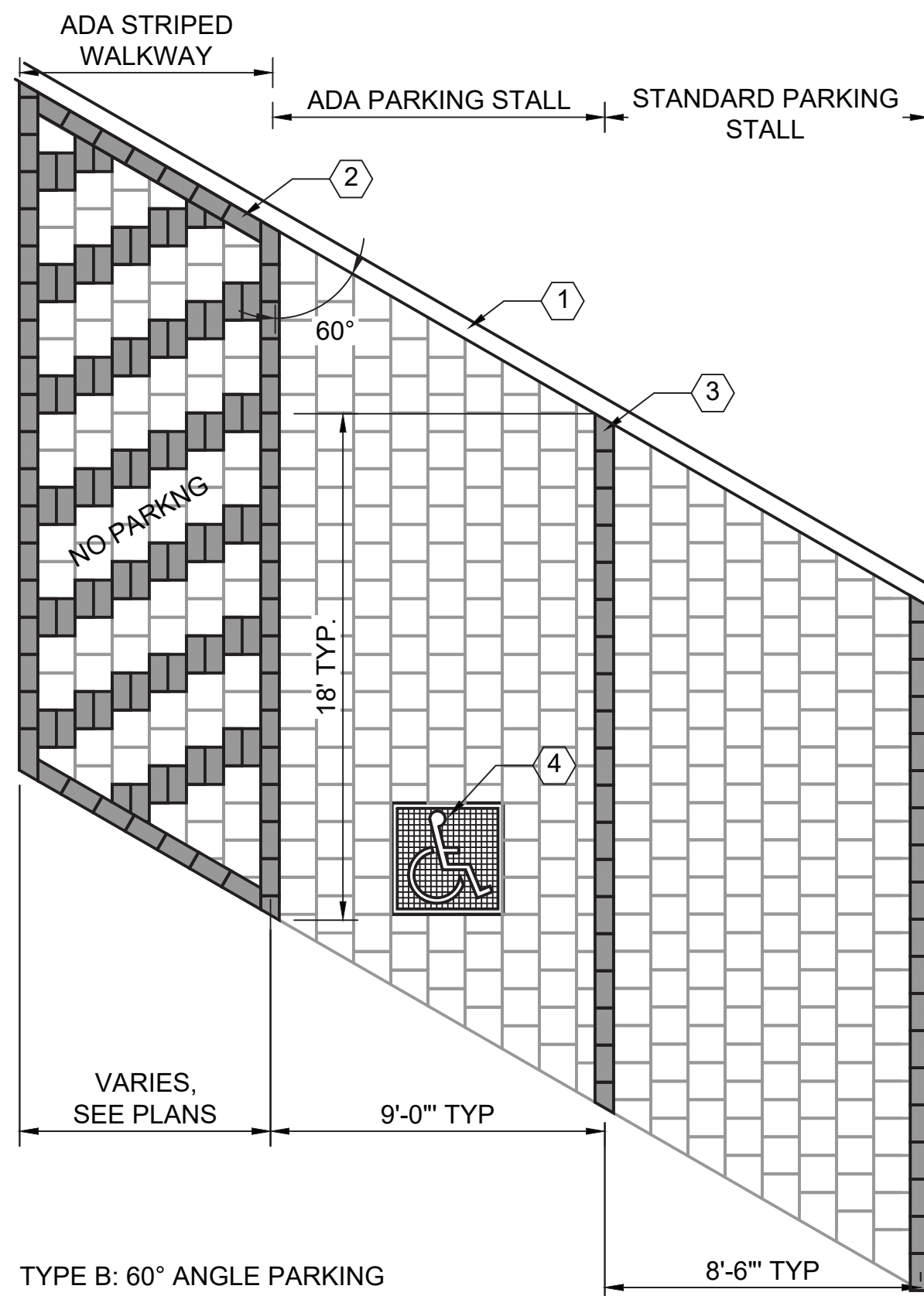
WILMINGTON WATERFRONT PROMENADE

PAVING DETAILS

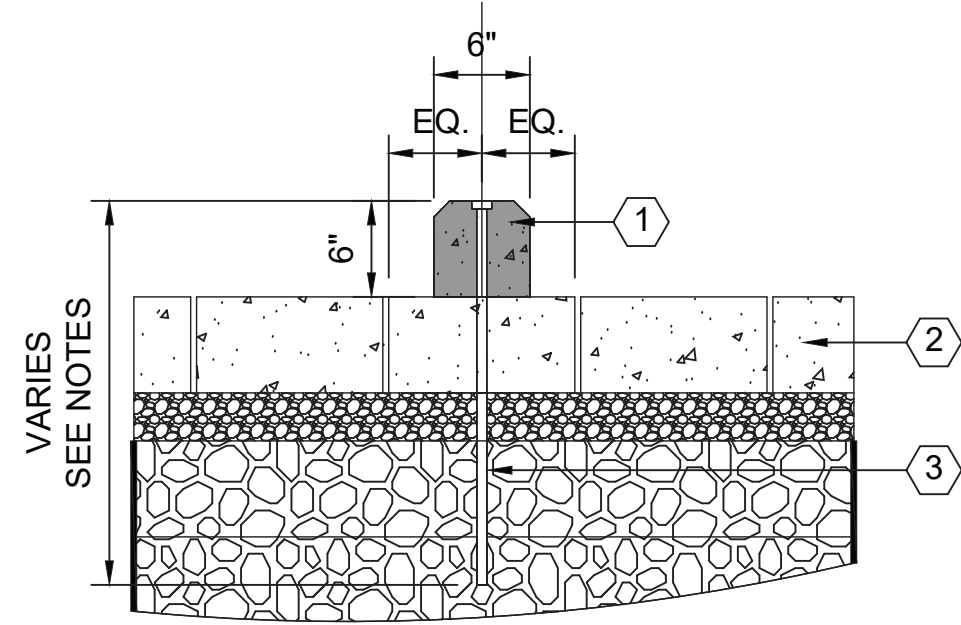


THE PORT OF LOS ANGELES  
ENGINEERING DIVISION  
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER SHEET NUMBER  
1-3192 LD-01



TYPE B: 60° ANGLE PARKING



SECTION

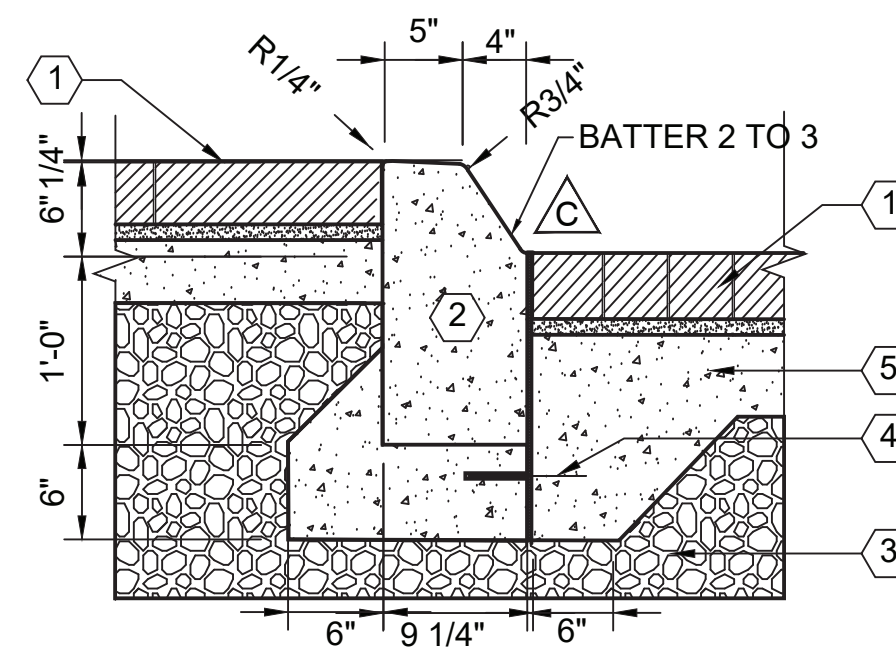
LEGEND

- 1. 6' LONG PRECAST CONCRETE WHEEL STOP W/ 1" CHAMFER
- 2. PERMEABLE PAVEMENT (SEE DT 5LD-01)
- 3. 5/8"Ø x 2'-0" REBAR DOWELS @ 4'-0" O.C.

NOTE

A. SEE HJ PLANS AND LD-06 FOR LAYOUT

**3LD-06**  
LM-01  
**PRECAST CONCRETE WHEEL STOP**  
SCALE: 1 1/2" = 1'-0"



SECTION

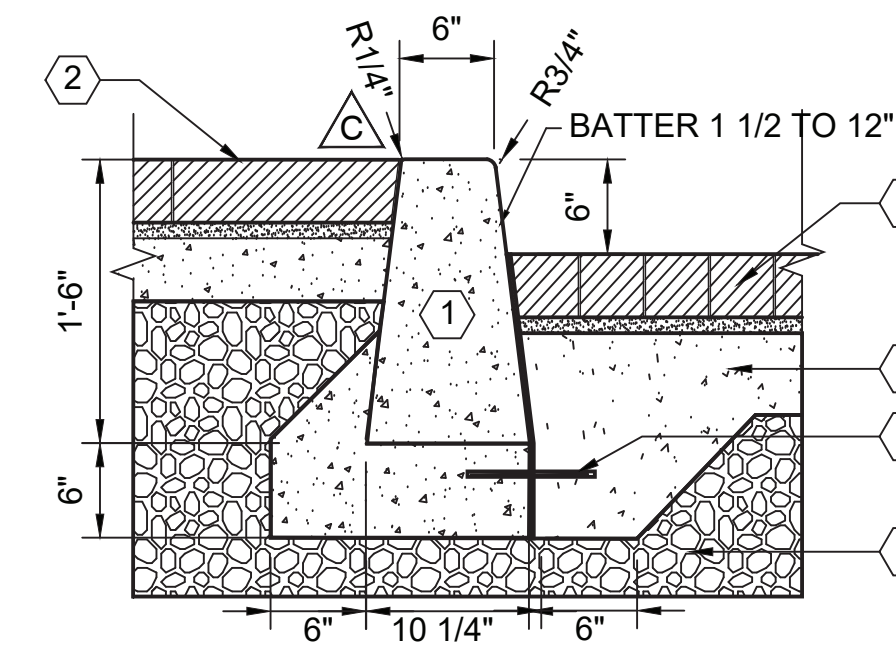
LEGEND

- 1. ADJACENT MATERIAL VARIES, SEE LM SERIES
- 2. INTEGRALLY-COLORED MOUNTABLE CONCRETE CURB
- 3. CRUSHED MISCELLANEOUS BASE
- 4. EXPANSION JOINT, SEE DT 2LD-01
- 5. CIP CONCRETE BASE

NOTES

- 1. PROVIDE SHOP DRAWINGS FOR CURB INCLUDING AT SMOOTH TRANSITIONS BETWEEN MOUNTABLE CURB AND CURB TYPE A
- 2. CONCRETE COLOR SHALL BE PER SPECIFICATION SECTION 03 45 00.

**4LD-06**  
LM-02 AND LM-04  
**INTEGRALLY-COLORED MOUNTABLE CURB**  
SCALE: 1" = 1'-0"



SECTION

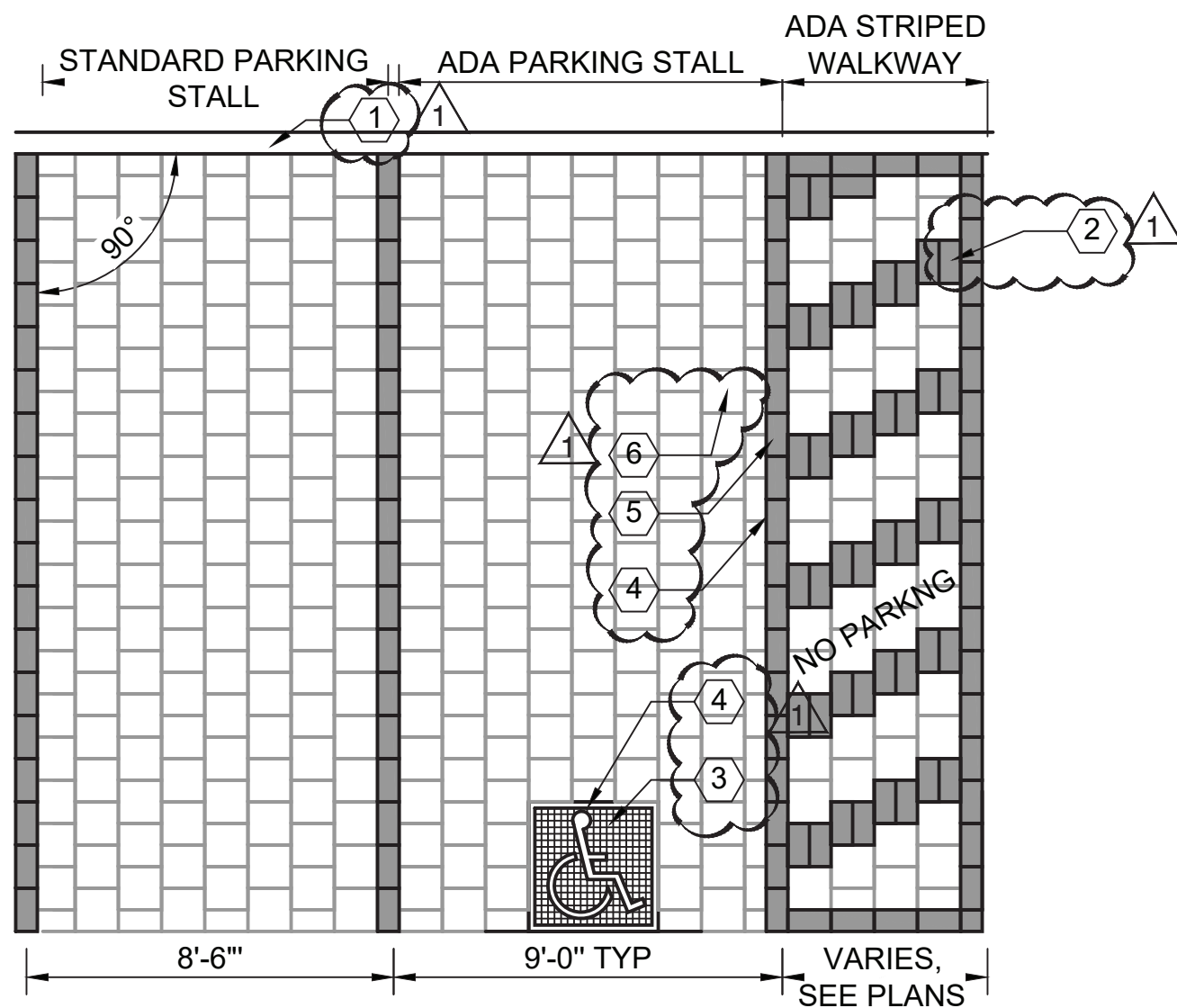
LEGEND

- 1. INTEGRALLY-COLORED CONCRETE CURB TYPE A
- 2. ADJACENT MATERIAL VARIES, SEE LM SERIES
- 3. CRUSHED MISCELLANEOUS BASE
- 4. EXPANSION JOINT, SEE DT 2LD-01
- 5. CIP CONCRETE BASE

NOTES

- 1. CONCRETE COLOR SHALL BE PER SPECIFICATION SECTION 03 45 00.

**5LD-06**  
LM-01 AND LM-03 TO LM-06  
**INTEGRALLY-COLORED CONCRETE CURB TYPE A**  
SCALE: 1" = 1'-0"



TYPE A: 90° ANGLE PARKING

LEGEND

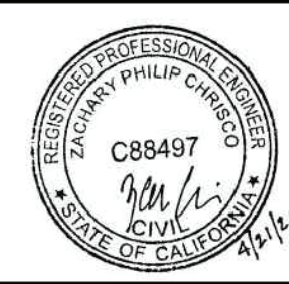
- 1. ROADWAY CURB
- 2. STAGGERED CHEVRON BANDING. HATCH LINES 36" SPACING MAX.
- 3. PAINTED ADA PARKING SYMBOL
- 4. ALL MARKINGS SHALL FOLLOW LADBS P/BC 2017-084
- 5. TYPE A PAVER - 6"X12" PERMEABLE PAVER SYSTEM
- 6. TYPE B PAVER - 12"X12" PERMEABLE PAVER SYSTEM

NOTES

- 1. TYPE B PAVERS SHALL BE CUT PER DRAWINGS AT ADA PARKING STALL

**1LD-06**  
LM-01,2,4,5  
HJ-01,2,4,5  
**PARKING PAVING LAYOUT, TYP.**  
SCALE: 1/4" = 1'-0"

NO.	DATE	DRAWN	REVISIONS -	CHKD	APPD	NO.	DATE	DRAWN	REVISIONS -	CHKD	APPD
1	3/5/20	ZC	REVISED NOTES AND LEGENDS ON 4LD-06 AND 5LD-06	ZPC	ZPC	2	4/21/20	ZC	REVISED 4LD-06 AND 5LD-06	ZPC	ZPC
3	2/16/21	DF	REVISED 1LD-06 PER RFI-009	DFB	ZPC						



SCALE: AS SHOWN  
DRAWN: D. FERNANDEZ, P. DUGDALE  
CHECKED: K. TOOKE  
DESIGNED: Z. CHRISCO  
ENGINEER / ARCHITECT

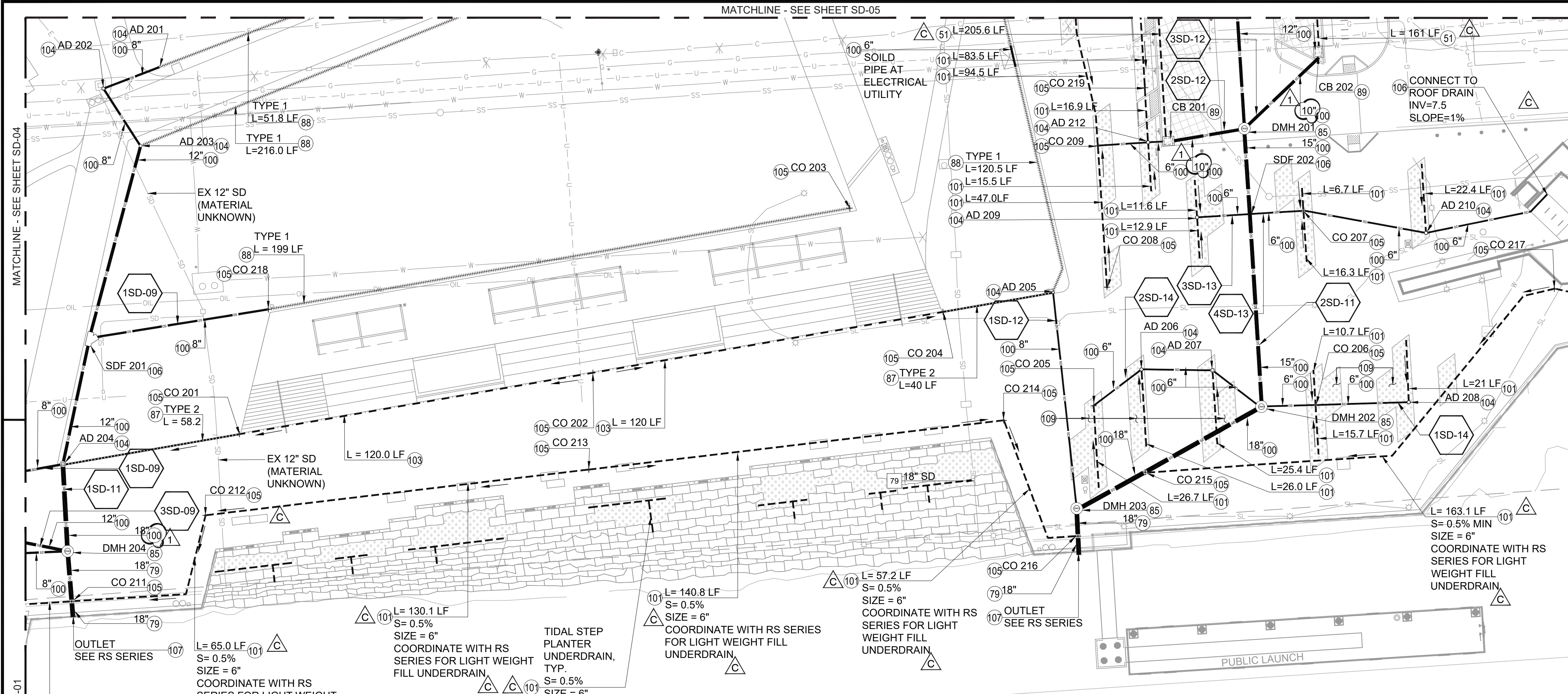


THE PORT OF LOS ANGELES  
**ENGINEERING DIVISION**  
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

WILMINGTON WATERFRONT PROMENADE  
**PARKING PAVING AND CURBS**

DRAWING NUMBER SHEET NUMBER  
1-3192 LD-06

MATCHLINE - SEE SHEET SD-05



**CONSTRUCTION NOTES**

- CONSTRUCT    □ RELOCATE
- ▭ EXISTING    □ REMOVE & RECONSTRUCT
- REMOVE    ○ NOT IN CONTRACT

NO.	CONSTRUCTION ITEM	DETAIL
51	PERMEABLE PAVERS	5LD-01
79	REINFORCED CONCRETE PIPE (RCP)	S-241-0
85	STORM DRAIN MAINTENANCE HOLE	S-381-0
87	TRENCH DRAIN	1SD-08
88	FRENCH DRAIN	6SD-08
89	CATCH BASIN (SEE SD-00, NOTE 28)	
100	HDPE PIPE	SEE SPEC
101	UNDERDRAIN	3SD-08
103	SLOT DRAIN	2SD-08
104	AREA DRAIN	4SD-07
105	CLEANOUT	5SD-08
106	STORM DRAIN FITTING	SEE SPEC
107	CHECK VALVE	4SD-08
109	STORMWATER PLANTER	3SD-07

**LEGEND**

- PERMEABLE PAVERS
- STORMWATER PLANTER
- STORM DRAIN PIPE
- UNDERDRAIN
- FRENCH DRAIN
- SLOT DRAIN
- TRENCH DRAIN
- CLEANOUT (CO)
- STORM DRAIN MAINTENANCE HOLE (DMH)
- AREA DRAIN (AD)

MATCHLINE - SEE SHEET SD-01

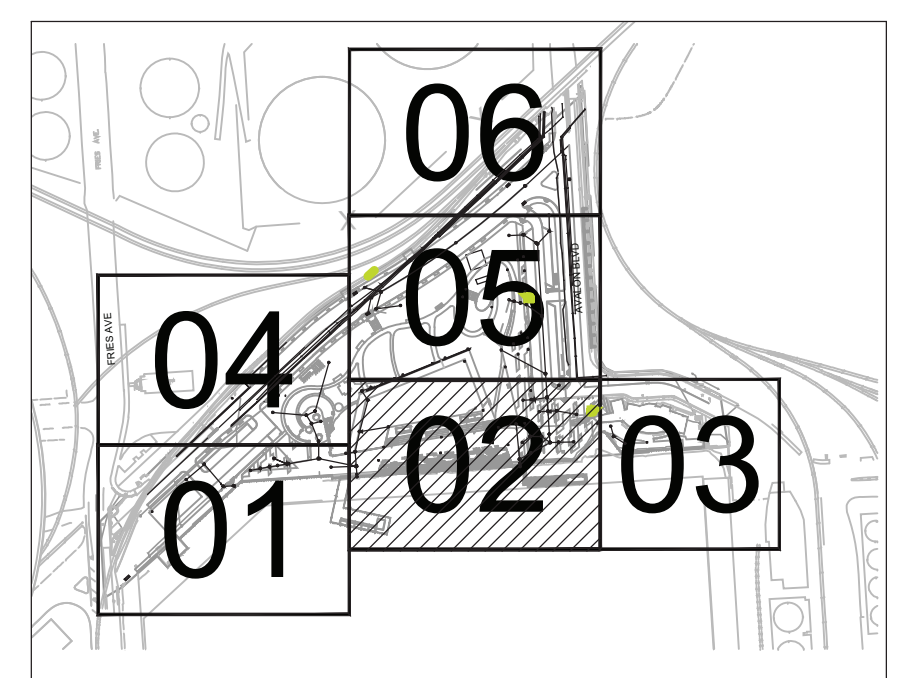
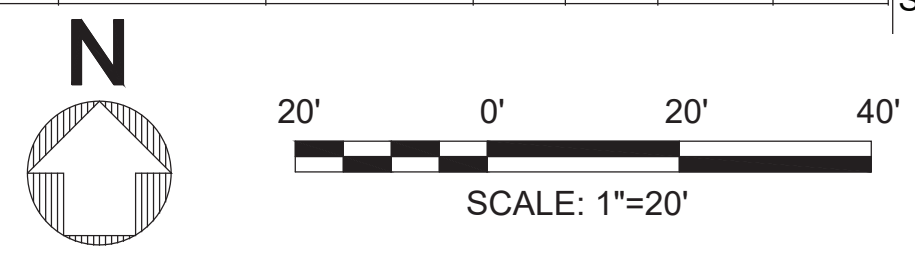
MATCHLINE - SEE SHEET SD-03

**DRAINAGE STRUCTURES**

STR	NORTHING	EASTING	DIM	TYPE	TG	IE
AD 201	1737606.51	6481961.53	12" S 12" G	1	16.77	12.75
AD 202	1737599.12	6481942.39	15" S 12" G	1	16.57	12.50
AD 203	1737579.77	6481954.96	12" S 12" G	1A	16.49	12.25
AD 204	1737472.08	6481928.21	24" S 12" G	1A	11.18	5.92
AD 205	1737530.37	6482263.57	12" S 12" G	1A	11.52	6.00

AD 206	1737504.16	6482293.23	12" S 12" G	3	10.89	6.42	CO 204	1737523.62	6482226.11	6" S 6" G	2	11.01	N/A	CO 215	1737469.45	6482294.54	18" S 6" G	1	11.27	2.63
AD 207	1737503.95	6482317.23	12" S 12" G	3	10.91	6.28	CO 205	1737491.80	6482277.01	8" S 8" G	2	11.09	6.53	CO 216	1737447.84	6482271.73	18" S 6" G	1	11.45	2.42
AD 208	1737493.14	6482383.58	8" S 8" G	3	11.00	6.00	CO 206	1737492.10	6482352.11	8" S 8" G	2	11.19	5.70	CO 217	1737531.43	6482433.02	6" S 6" G	1	11.37	8.50
AD 209	1737555.57	6482312.04	12" S 12" G	3	10.71	5.45	CO 207	1737557.79	6482347.98	8" S 8" G	2	10.87	5.50	CO 218	1737523.95	6481997.83	8" S 8" G	2	17.43	10.74
AD 210	1737550.33	6482389.40	8" S 8" G	3	10.22	6.00	CO 208	1737531.85	6482281.63	6" S 6" G	2	10.85	5.45	CO 219	1737599.88	6482294.33	6" S 6" G	1	11.10	5.25
AD 212	1737580.95	6482295.82	12" S 12" G	3	11.10	5.10	CO 209	1737579.86	6482278.47	6" S 6" G	2	11.37	5.20	DMH 201	1737585.52	6482328.05	48" S 24" G	N/A	10.88	3.60
CB 201	1737581.35	6482302.21	2' x 2'	N/A	10.66	4.67	CO 211	1737425.78	6481931.73	18" S 6" G	1	11.44	3.54	DMH 202	1737491.54	6482333.96	48" S 24" G	N/A	11.11	2.87
CB 202	1737611.03	6482352.85	2' x 2'	N/A	10.92	6.00	CO 212	1737454.71	6481976.94	6" S 6" G	1	11.52	8.30	DMH 203	1737456.60	6482271.22	48" S 24" G	N/A	11.35	2.47
AD 211	1737550.33	6482389.40	8" S 8" G	3	10.22	6.00	CO 201	1737482.29	6481987.55	6" S 6" G	2	11.02	N/A	CO 213	1737470.10	6482106.43	6" S 6" G	1	4.22	9.00
AD 212	1737580.95	6482295.82	12" S 12" G	3	11.10	5.10	CO 202	1737502.86	6482107.77	6" S 6" G	1	10.88	N/A	CO 214	1737486.96	6482246.72	6" S 6" G	1	11.53	8.30
AD 213	1737580.95	6482295.82	12" S 12" G	3	11.10	5.10	CO 203	1737558.93	6482194.64	6" S 6" G	2	17.45	15.95	SDF 201	1737514.60	6481937.33	N/A	N/A	N/A	8.90
AD 214	1737580.95	6482295.82	12" S 12" G	3	11.10	5.10	SDF 202	1737556.69	6482329.86	N/A	N/A	N/A	3.45							

**1SD-02 STORM DRAIN PLAN - AREA 2**  
SCALE: 1" = 20'



**KEY MAP**  
SCALE: 1" = 400'

NO.	DATE	DRAWN	REVISIONS	CHKD	APPD
1	4/21/20	ZC	ADDED ROOF DRAIN CONNECTION (112); REVISED PERMEABLE PAVERS, LIGHTWEIGHT FILL, AND TIDAL STEP PLANTER UNDERDRAIN CALLOUTS; ADDED PLANTER HATCH TO TIDAL STEPS	ZPC	ZPC
2	1/15/21	KS	REVISE PER RFI 01 (F2, I9, I10)	DFB	ZPC

NO.	DATE	DRAWN	REVISIONS	CHKD	APPD
3					
4					
5					
6					
7					

**SASAKI**  
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P 617 926 3300 F 617 924 2748 W SASAKI.COM

REGISTERED PROFESSIONAL ENGINEER  
C88497  
PHILIP CHUNG  
CIVIL  
STATE OF CALIFORNIA

SCALE: AS SHOWN  
DRAWN: K. SLOCUM  
CHECKED: Z. CHRISCO  
DESIGNED: K. SLOCUM  
ENGINEER / ARCHITECT

**WILMINGTON WATERFRONT PROMENADE**  
**STORM DRAIN PLAN - AREA 2**

THE PORT OF LOS ANGELES  
**ENGINEERING DIVISION**  
425 S. PALMS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER: 1-3192 SD-02    SHEET NUMBER: 14

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MATCHLINE - SEE SHEET SD-06

DRAINAGE STRUCTURES CONTINUED						
STR	NORTHING	EASTING	DIM	TYPE	TG	IE
AD 501	1737777.12	6482022.70	12" S 12" G	4	11.96	4.85
AD 502	1737923.02	6482248.77	12" S 12" G	4	9.53	6.44
AD 508	1737684.21	6482233.05	8" S 8" G	1	12.90	6.50
AD 509	1737779.05	6482285.07	12" S 12" G	3	12.24	5.44
AD 510	1737924.06	6482276.24	12" S 12" G	3	11.18	6.29
CB 501	1737814.38	6481948.10	8' x 2'	N/A	11.67	5.00
CB 502	1737770.38	6481972.19	8' x 2'	N/A	11.67	4.08
CB 503	1737924.19	6482279.88	2' x 2'	N/A	11.00	5.94
CB 504	1737931.15	6482333.11	2' x 2'	N/A	10.95	5.96
CO 501	1737807.13	6482282.34	6" S 6" G	2	12.50	7.50
CO 504	1737782.12	6482272.70	12" S 8" G	1	12.65	5.50
CO 505	1737872.07	6482266.71	6" S 6" G	2	13.00	11.00
CO 506	1737851.38	6482245.26	6" S 6" G	2	16.50	15.0
CO 507	1737697.28	6482258.04	6" S 6" G	2	12.50	5.83
CO 508	1737720.03	6482273.89	6" S 6" G	2	12.50	5.90
CO 509	1737773.76	6482213.16	6" S 6" G	2	29.00	27.5
CO 510	1737649.05	6482240.84	6" S 6" G	2	12.89	11.40
CO 511	1737661.09	6482156.07	6" S 6" G	2	0.00	18.25
CO 512	1737686.69	6482162.87	6" S 6" G	2	20.36	18.00
CO 513	1737795.03	6482152.31	6" S 6" G	2	22.26	20.75
CO 514	1737811.16	6482159.12	6" S 6" G	2	22.26	20.70
CO 515	1737878.61	6482278.91	6" S 6" G	2	13.00	6.60
CO 516	1737849.29	6482280.70	6" S 6" G	2	13.00	6.80
CO 517	1737709.80	6482287.75	6" S 6" G	2	12.50	7.50
CO 518	1737685.51	6482288.97	6" S 6" G	2	12.50	5.65

**CONSTRUCTION NOTES**

- CONSTRUCT
- RELOCATE
- EXISTING
- REMOVE & RECONSTRUCT
- REMOVE
- NOT IN CONTRACT

NO.	CONSTRUCTION ITEM	DETAIL
51	PERMEABLE PAVERS	5LD-01
79	REINFORCED CONCRETE PIPE (RCP)	S-241-0
85	STORM DRAIN MAINTENANCE HOLE	S-381-0
88	FRENCH DRAIN	6SD-08
89	CATCH BASIN (SEE SD-00, NOTE 28)	
99	SIDE OPENING CATCH BASIN	APWA 300-3
100	HDPE PIPE	SEE SPEC
101	UNDERDRAIN	3SD-08
104	AREA DRAIN	4SD-07
105	CLEANOUT	5SD-08
108	BIORETENTION AREA	1SD-07
109	STORMWATER PLANTER	3SD-07

**LEGEND**

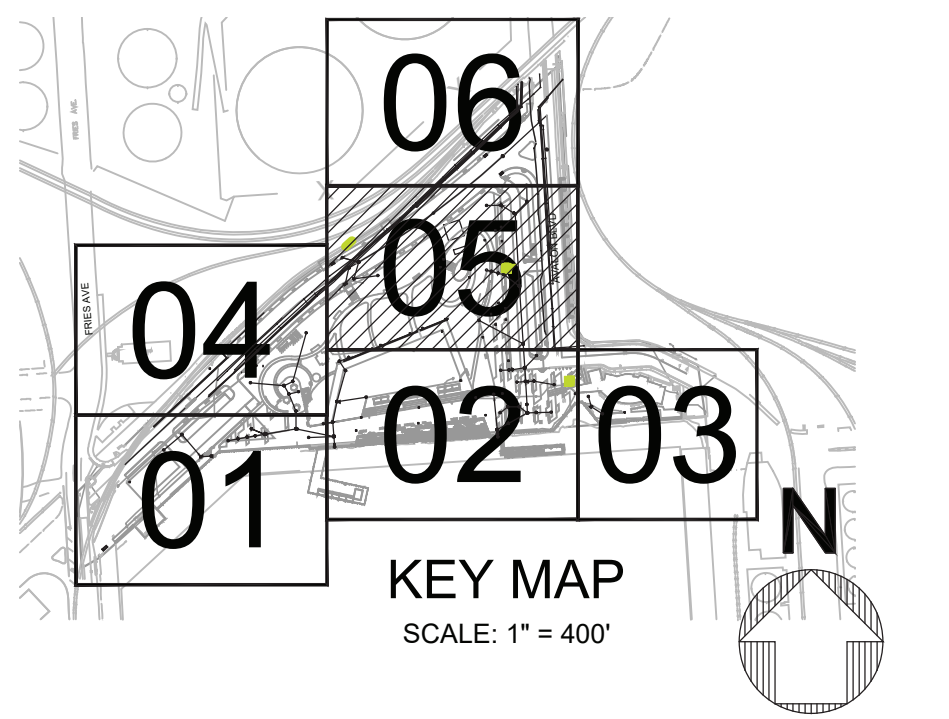
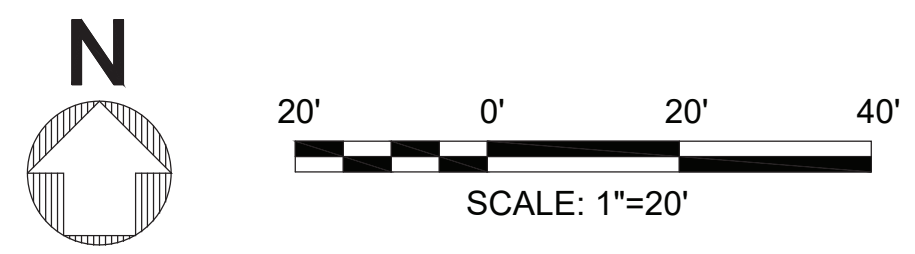
- PERMEABLE PAVERS
- STORMWATER PLANTER
- BIORETENTION AREA
- STORM DRAIN PIPE
- UNDERDRAIN
- FRENCH DRAIN
- CLEANOUT (CO)
- STORM DRAIN MAINTENANCE HOLE (DMH)
- AREA DRAIN (AD)

DRAINAGE STRUCTURES						
STR	NORTHING	EASTING	DIM	TYPE	TG	IE
CO 519	1737675.47	6482267.78	6" S 6" G	2	12.50	5.70
CO 520	1737668.25	6482115.37	6" S 6" G	2	19.36	17.00
CO 521	1737656.88	6482088.96	6" S 6" G	2	19.21	16.85
CO 522	1737632.68	6482027.67	6" S 6" G	2	18.11	15.75
CO 523	1737625.16	6482010.48	6" S 6" G	2	17.86	15.5
DMH 501	1737905.67	6482308.21	36" S 24" G	N/A	11.63	5.75
DMH 502	1737805.44	6481982.07	48" S 24" G	N/A	12.31	3.35
DMH 503	1737755.51	6482317.34	36" S 24" G	N/A	12.00	4.82
DMH 504	1737635.18	6482324.91	36" S 24" G	N/A	11.43	4.10
SDF 501	1737785.71	6482259.29	12"	N/A	N/A	5.57

MATCHLINE - SEE SHEET SD-04

MATCHLINE - SEE SHEET SD-02

**1SD-05 STORM DRAIN PLAN - AREA 5**  
SCALE: 1" = 20'



NO.	DATE	DRAWN	REVISIONS -	CHKD	APPD	NO.	DATE	DRAWN	REVISIONS -	CHKD	APPD
1	4/21/20	ZC	REVISED PERMEABLE PAVERS UNDERDRAIN CALLOUT; REVISED CONSTRUCTION ITEM LIST (I14)	ZPC	ZPC						
2	1/15/21	KS	REVISE PER RFI 01 (F2, I9, I10)	DFB	ZPC						

**SASAKI**  
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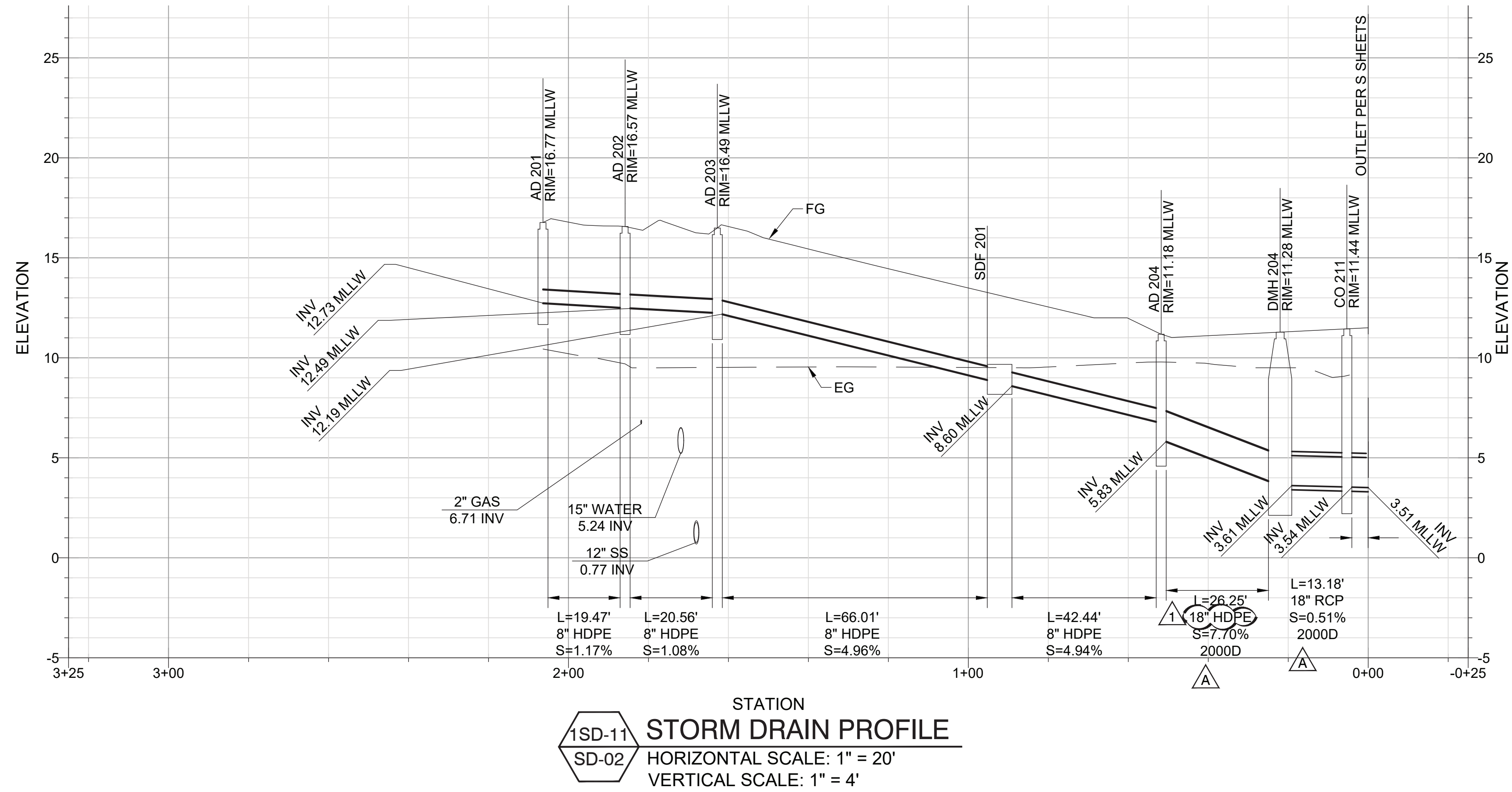
SCALE: AS SHOWN  
DRAWN: K. SLOCUM  
CHECKED: Z. CHRISCO  
DESIGNED: K. SLOCUM  
ENGINEER / ARCHITECT

WILMINGTON WATERFRONT PROMENADE  
**STORM DRAIN PLAN - AREA 5**

THE PORT OF LOS ANGELES  
**ENGINEERING DIVISION**  
425 S. PALMS VERDES STREET SAN PEDRO CA 90731-3309

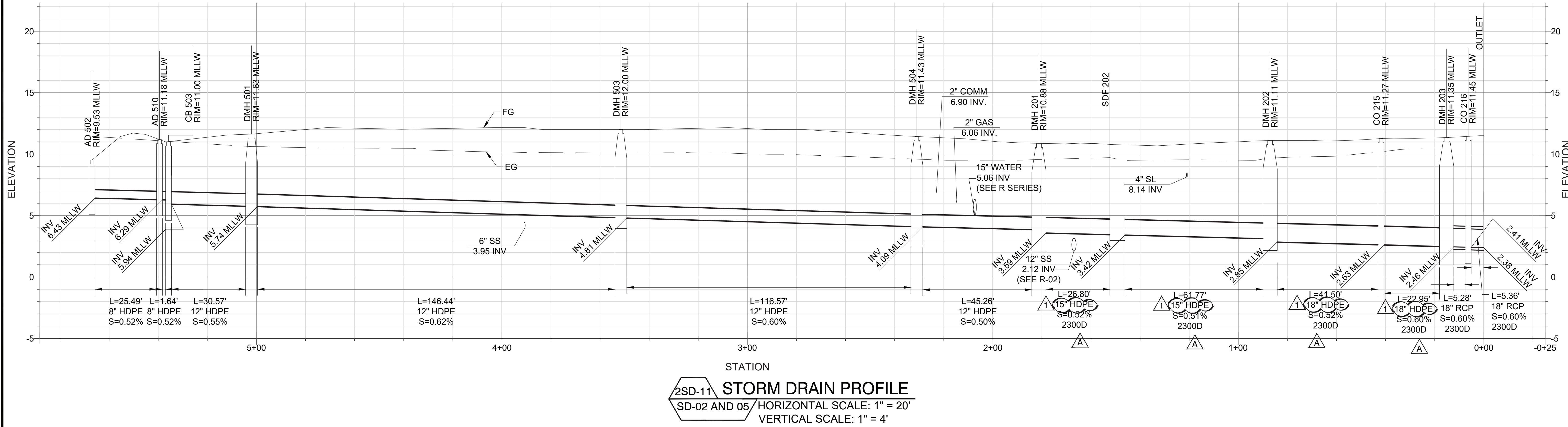
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NOTE:  
1. ALL RCP PIPE SHALL HAVE CASE 2 BEDDING

**1SD-11**  
SD-02  
**STORM DRAIN PROFILE**  
HORIZONTAL SCALE: 1" = 20'  
VERTICAL SCALE: 1" = 4'



**2SD-11**  
SD-02 AND 05  
**STORM DRAIN PROFILE**  
HORIZONTAL SCALE: 1" = 20'  
VERTICAL SCALE: 1" = 4'

NO.	DATE	DRAWN	REVISIONS -	CHKD	APPD
1	3/5/20	ZC	REVISED PIPE INFORMATION (F-8, F-9, B-10, B-11, B-12, B-13); ADDED NOTE (J-12)	ZPC	ZPC
2	1/15/21	KS	REVISE PER RFI 01 (F2,I9, I10)	DFB	ZPC

NO.	DATE	DRAWN	REVISIONS -	CHKD	APPD
3					
4					
5					
6					
7					

REGISTERED PROFESSIONAL ENGINEER  
SANJAY PHILIP CHANDIO  
C88497  
CIVIL ENGINEER  
STATE OF CALIFORNIA

**SASAKI**

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P 617 926 3300 F 617 924 2748 W SASAKI.COM

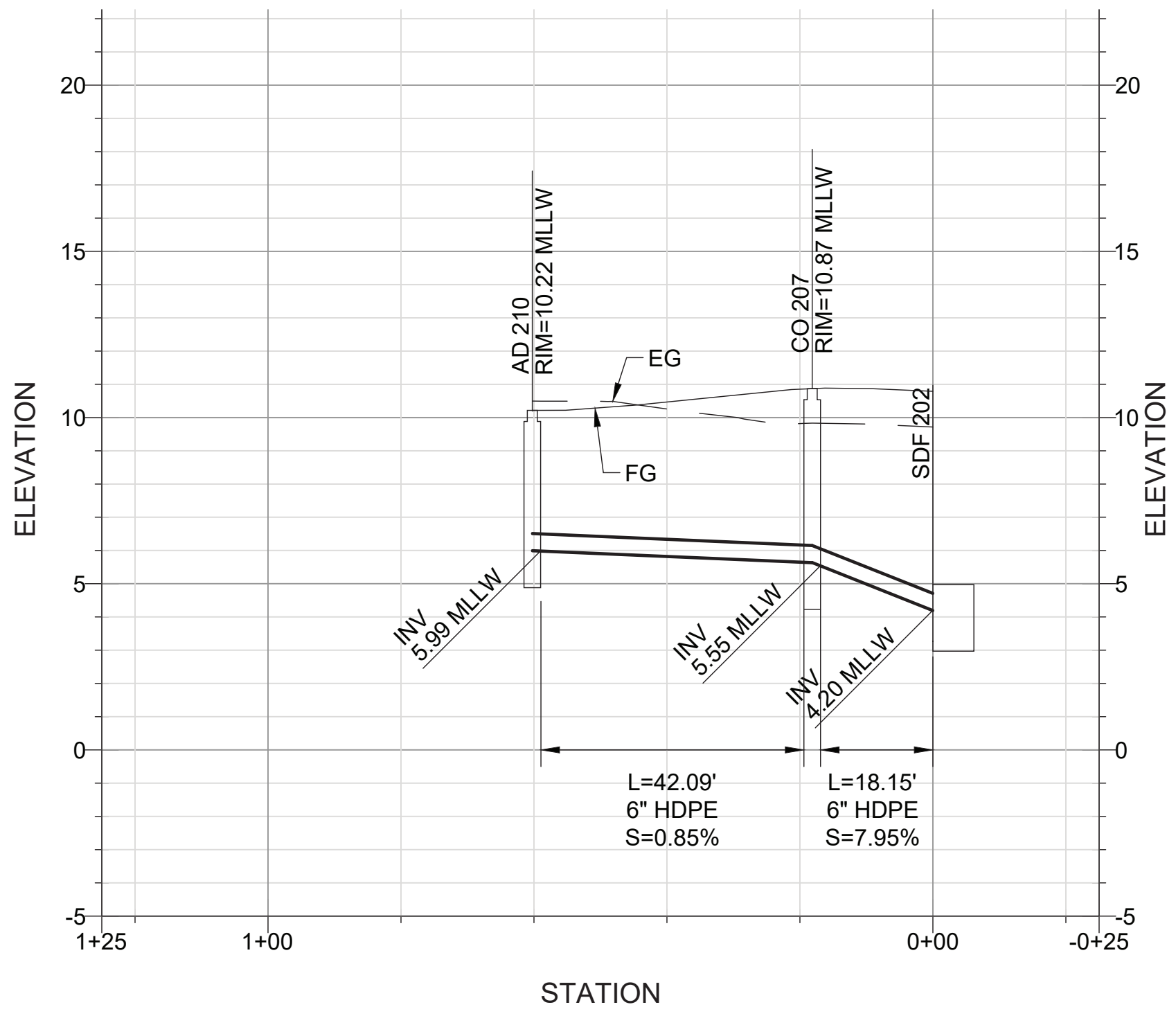
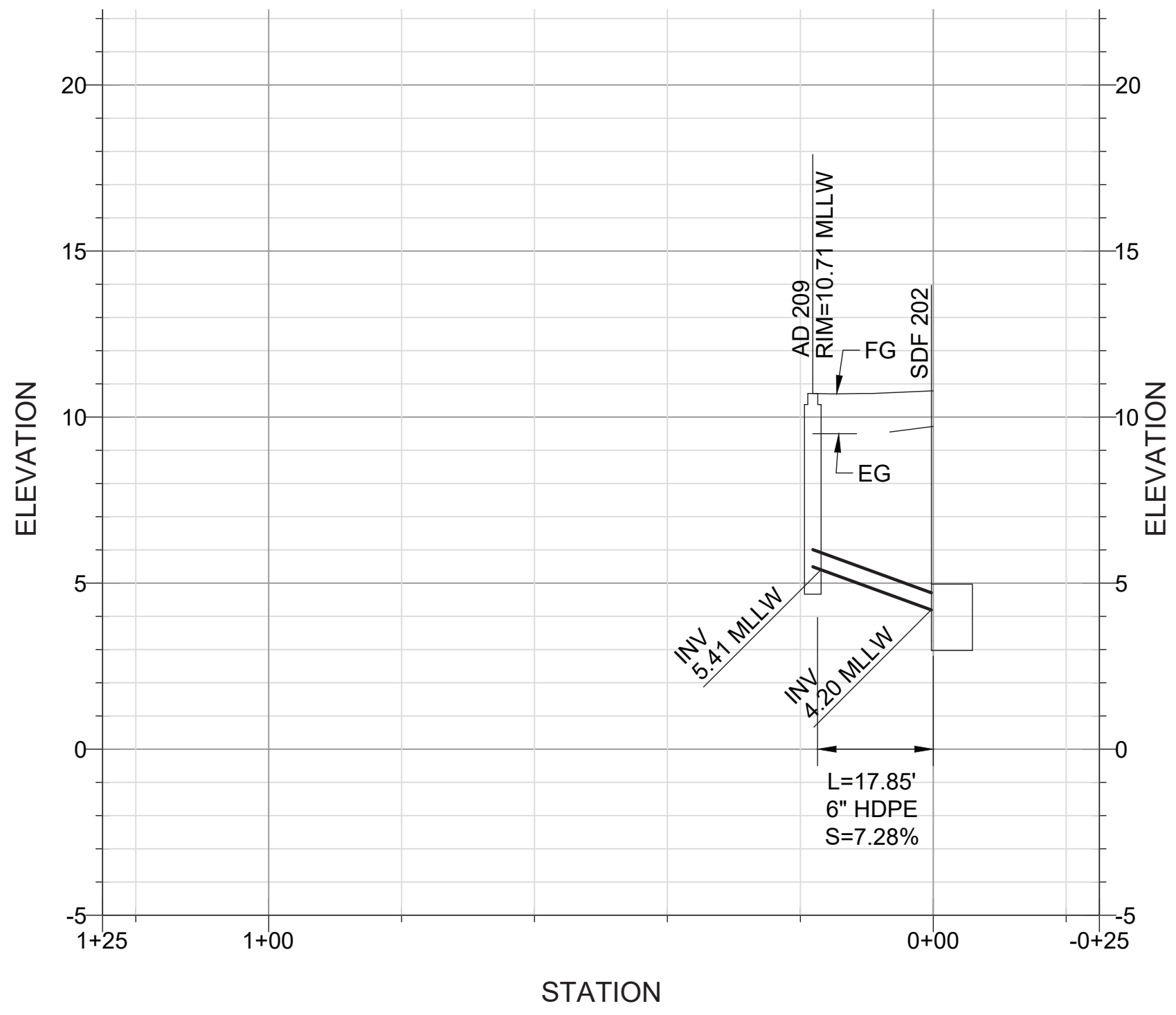
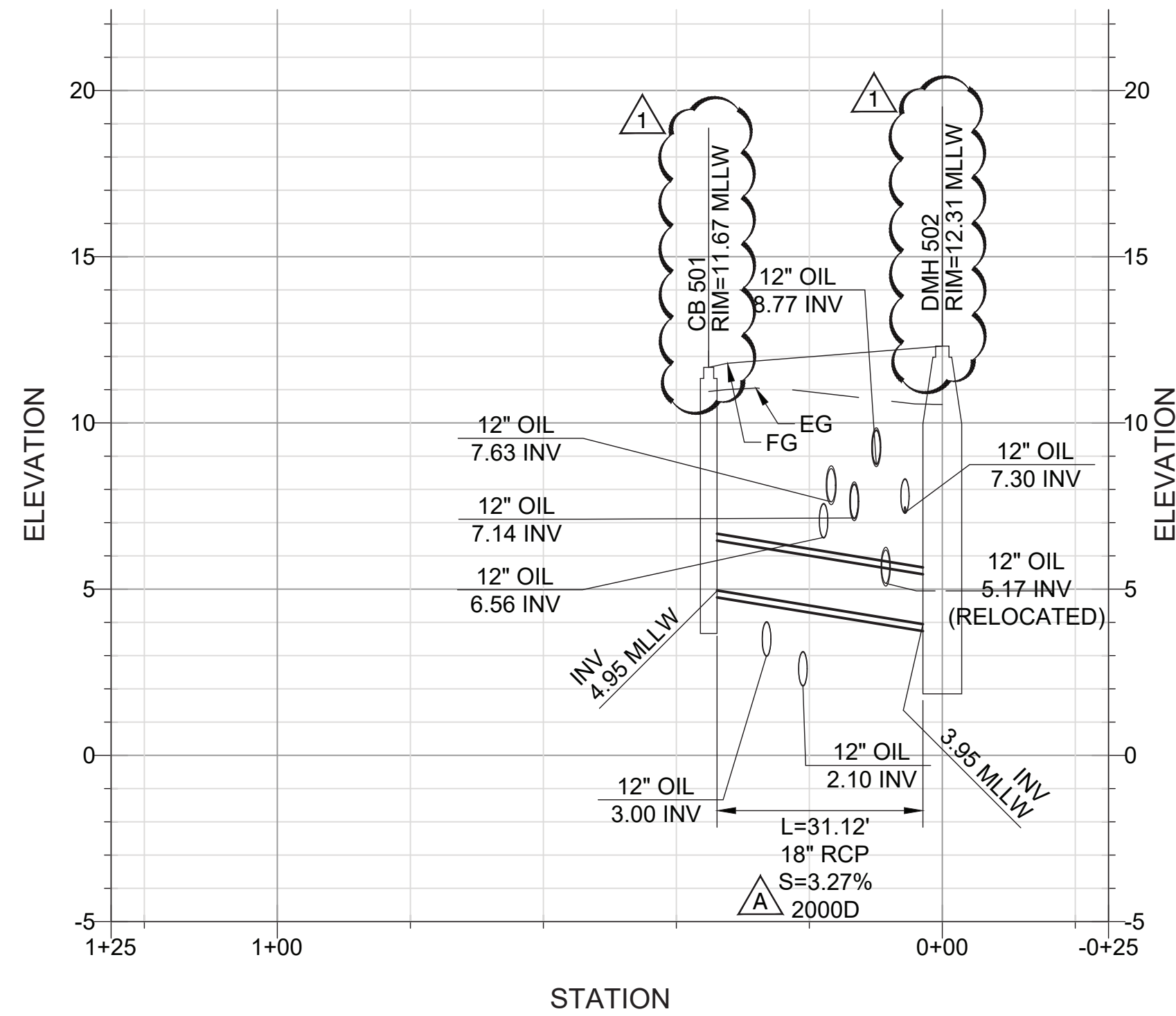
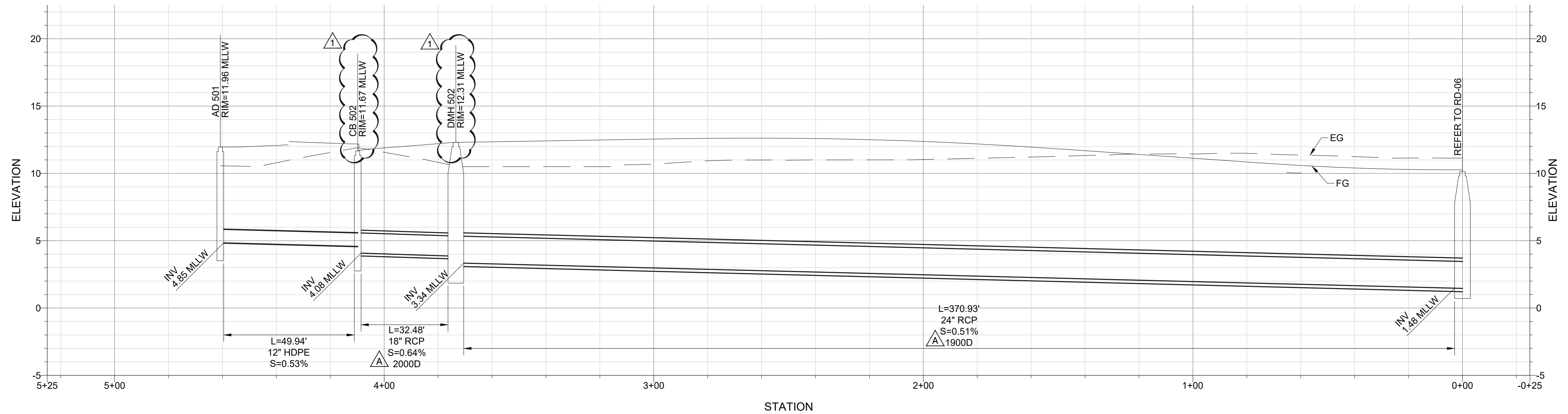
SCALE: AS SHOWN  
DRAWN: J. NG  
CHECKED: Z. CHRISCO  
DESIGNED: K. SLOCUM  
ENGINEER / ARCHITECT

WILMINGTON WATERFRONT PROMENADE  
**STORM DRAIN PROFILES**

THE PORT OF LOS ANGELES  
**ENGINEERING DIVISION**  
425 S. PALMS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER SHEET NUMBER  
**1-3192 SD-11**

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NOTE:  
1. ALL RCP PIPE SHALL HAVE CASE 2 BEDDING

NO.	DATE	DRAWN	REVISIONS -	CHKD	APPD	NO.	DATE	DRAWN	REVISIONS -	CHKD	APPD
1	3/5/20	ZC	REVISED PIPE INFORMATION (G-5, G-10, B-4); ADDED NOTE (A-14)	ZPC	ZPC	2	1/15/21	KS	REVISED PER RFI 21 (D3, D4, I5, I6)	DFB	ZPC

PHILIP CHRISTOU  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL  
STATE OF CALIFORNIA  
C88497

**SASAKI**  
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SCALE: AS SHOWN  
DRAWN: J. NG  
CHECKED: Z. CHRISCO  
DESIGNED: K. SLOCUM  
ENGINEER / ARCHITECT

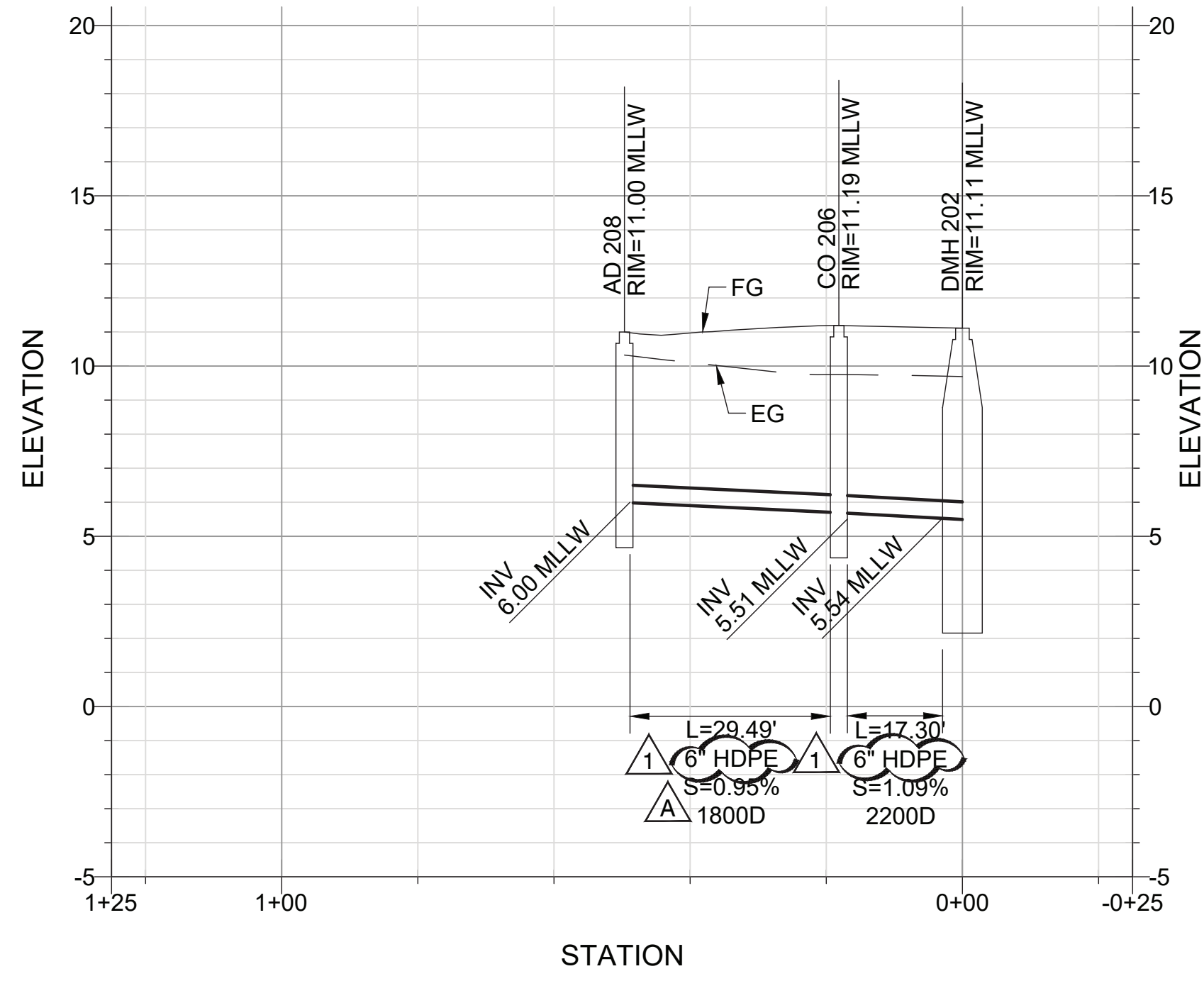
WILMINGTON WATERFRONT PROMENADE  
**STORM DRAIN PROFILES**

THE PORT OF LOS ANGELES  
**ENGINEERING DIVISION**  
425 S. PALMS VERDES STREET SAN PEDRO CA 90731-3309

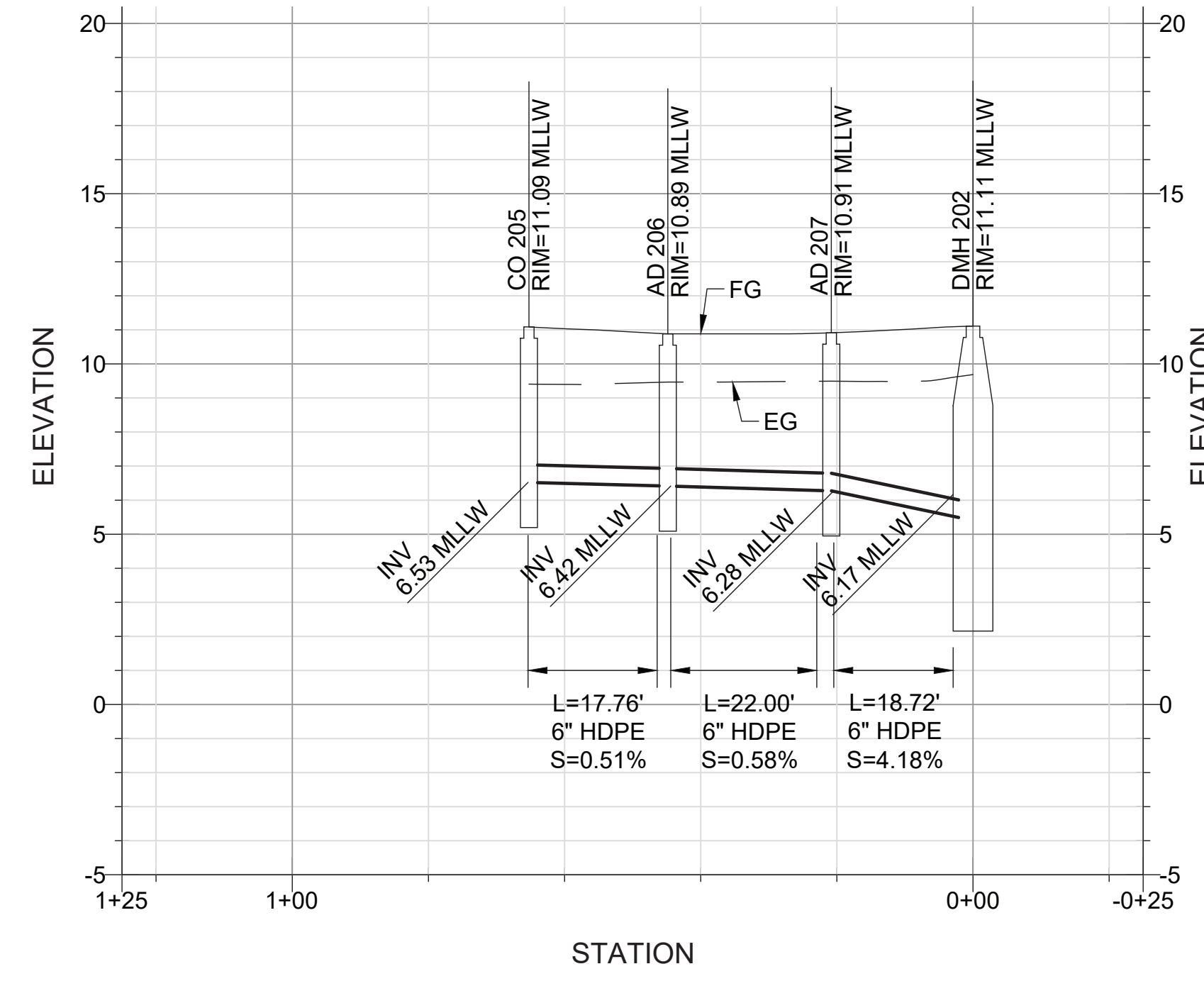
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1-3192 SD-13

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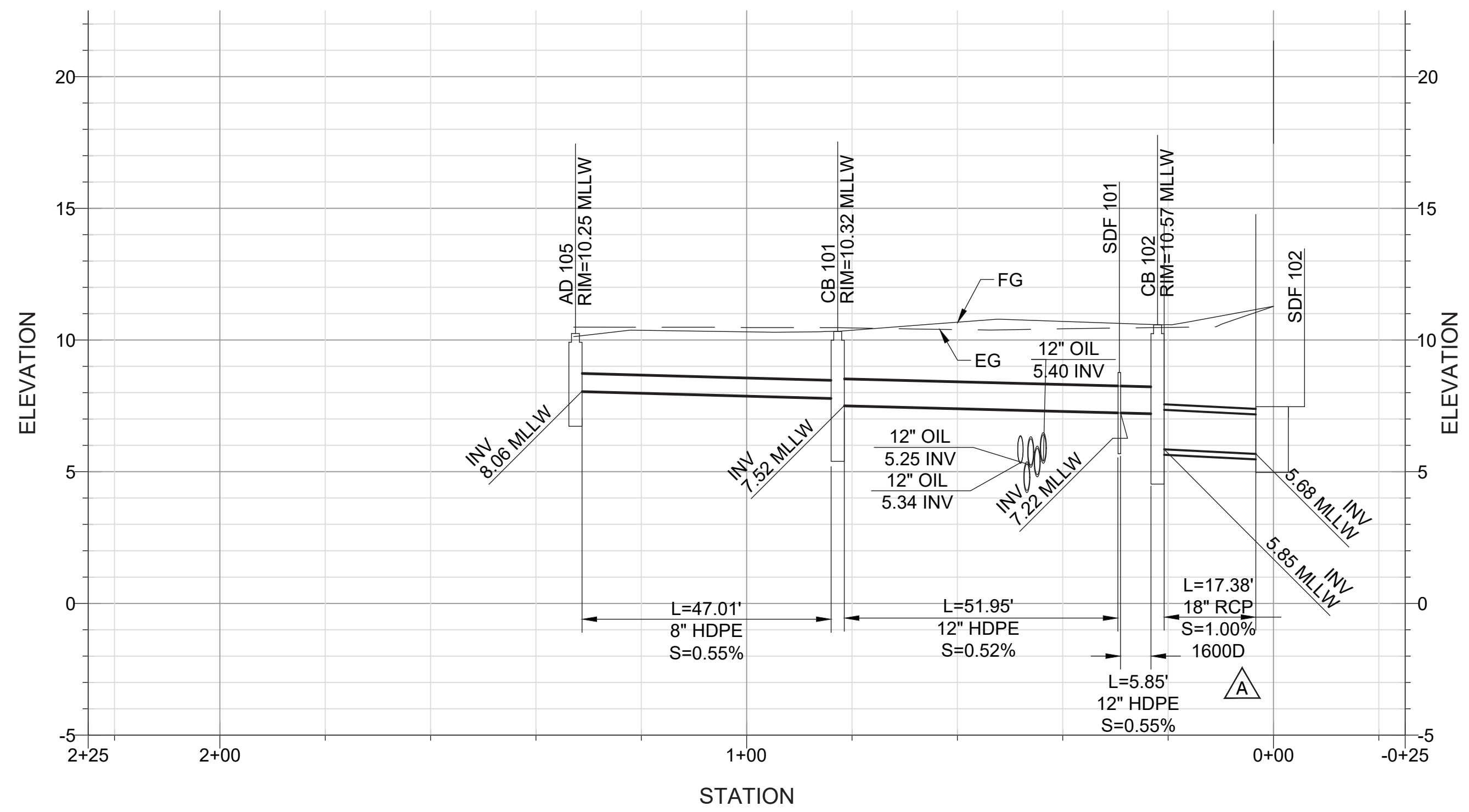
NOTE:  
1. ALL RCP PIPE SHALL HAVE CASE 2 BEDDING



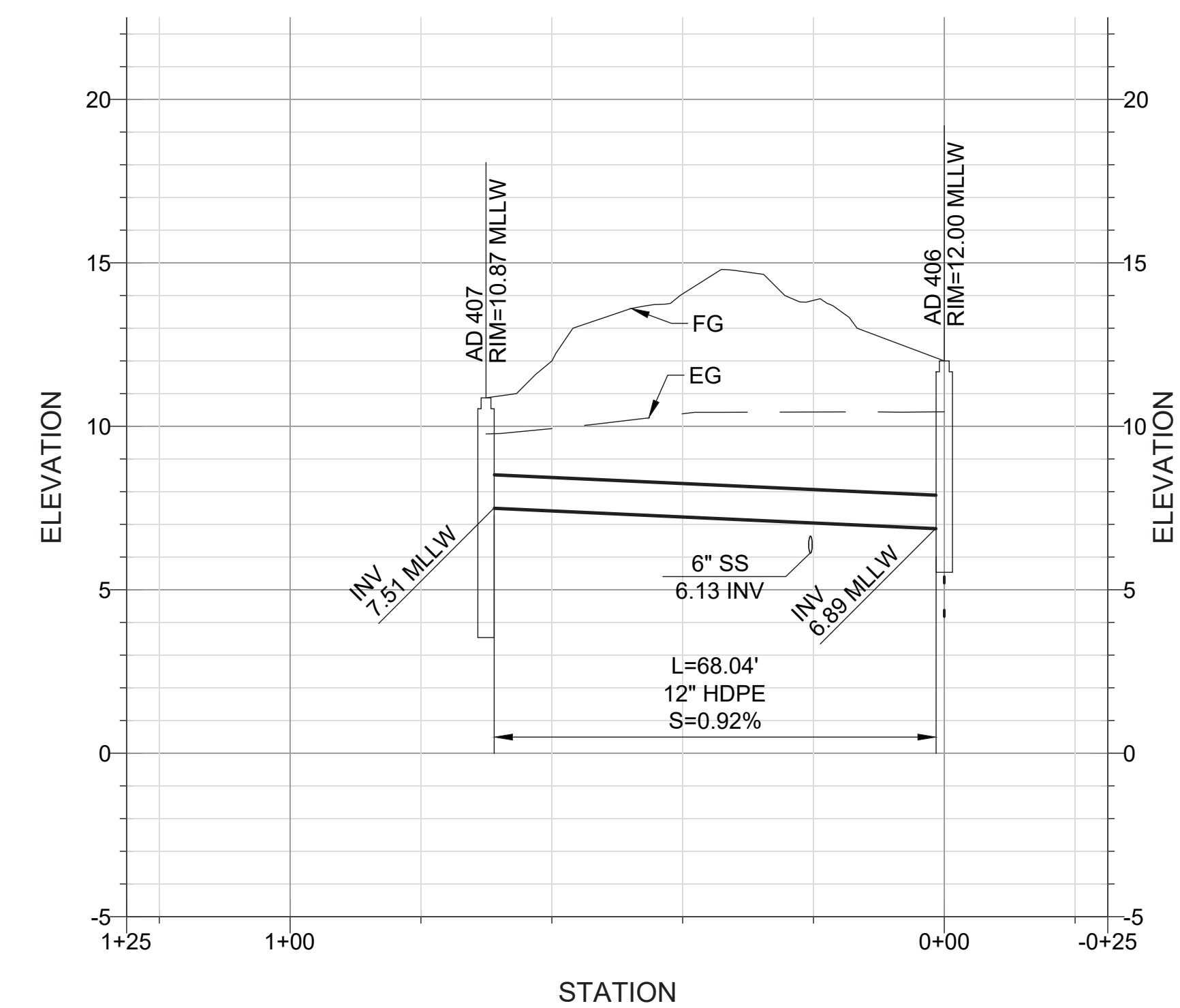
**1SD-14 STORM DRAIN PROFILE**  
SD-02 HORIZONTAL SCALE: 1" = 20'  
VERTICAL SCALE: 1" = 4'



**2SD-14 STORM DRAIN PROFILE**  
SD-02 HORIZONTAL SCALE: 1" = 20'  
VERTICAL SCALE: 1" = 4'



**3SD-14 STORM DRAIN PROFILE**  
SD-01 HORIZONTAL SCALE: 1" = 20'  
VERTICAL SCALE: 1" = 4'



**4SD-14 STORM DRAIN PROFILE**  
SD-04 HORIZONTAL SCALE: 1" = 20'  
VERTICAL SCALE: 1" = 4'

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NO.	DATE	DRAWN	REVISIONS	CHKD	APPD	NO.	DATE	DRAWN	REVISIONS	CHKD	APPD
1	3/5/20	ZC	REVISED PIPE INFORMATION (G-4, B-5); ADDED NOTE (J-13)	ZPC	ZPC						
2	1/15/21	KS	REVISE PER RFI 01 (F2, I9, I10)	DFB	ZPC						

C88497

REGISTERED PROFESSIONAL ENGINEER

STATE OF CALIFORNIA

**SASAKI**

64 PLEASANT STREET WATERTOWN MA 02472 USA  
P 617 926 3300 F 617 924 2748 W SASAKI.COM

SCALE: AS SHOWN

DRAWN: J. NG

CHECKED: Z. CHRISCO

DESIGNED: K. SLOCUM

ENGINEER / ARCHITECT

WILMINGTON WATERFRONT PROMENADE

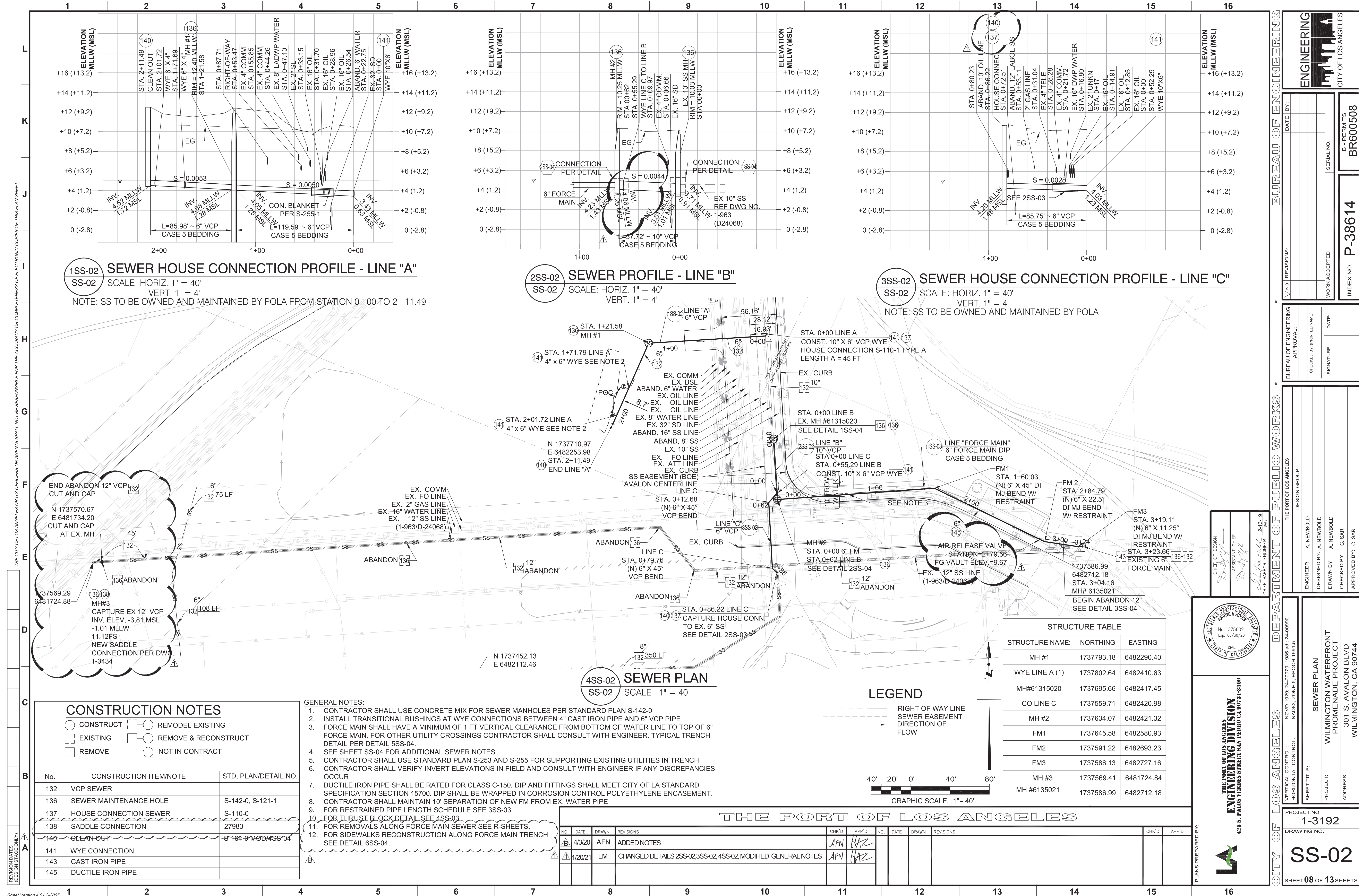
**STORM DRAIN PROFILES**

THE PORT OF LOS ANGELES  
**ENGINEERING DIVISION**  
425 S. PALMS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER

SHEET NUMBER

1-3192 SD-14



**1SS-02 SEWER HOUSE CONNECTION PROFILE - LINE "A"**  
 SS-02 SCALE: HORIZ. 1" = 40'  
 VERT. 1" = 4'  
 NOTE: SS TO BE OWNED AND MAINTAINED BY POLA FROM STATION 0+00 TO 2+11.49

**2SS-02 SEWER PROFILE - LINE "B"**  
 SS-02 SCALE: HORIZ. 1" = 40'  
 VERT. 1" = 4'

**3SS-02 SEWER HOUSE CONNECTION PROFILE - LINE "C"**  
 SS-02 SCALE: HORIZ. 1" = 40'  
 VERT. 1" = 4'  
 NOTE: SS TO BE OWNED AND MAINTAINED BY POLA

**4SS-02 SEWER PLAN**  
 SS-02 SCALE: 1" = 40'

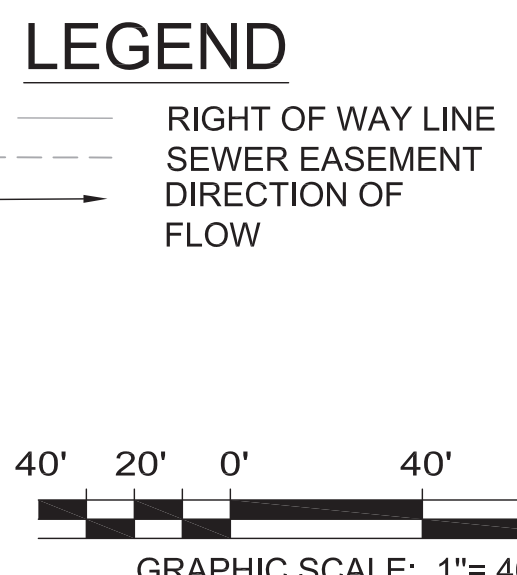
**CONSTRUCTION NOTES**

- CONSTRUCT
- EXISTING
- REMOVE
- REMODEL EXISTING
- REMOVE & RECONSTRUCT
- NOT IN CONTRACT

**GENERAL NOTES:**

1. CONTRACTOR SHALL USE CONCRETE MIX FOR SEWER MANHOLES PER STANDARD PLAN S-142-0
2. INSTALL TRANSITIONAL BUSHINGS AT WYE CONNECTIONS BETWEEN 4" CAST IRON PIPE AND 6" VCP PIPE
3. FORCE MAIN SHALL HAVE A MINIMUM OF 1 FT VERTICAL CLEARANCE FROM BOTTOM OF WATER LINE TO TOP OF 6" FORCE MAIN. FOR OTHER UTILITY CROSSINGS CONTRACTOR SHALL CONSULT WITH ENGINEER. TYPICAL TRENCH DETAIL PER DETAIL 5SS-04.
4. SEE SHEET SS-04 FOR ADDITIONAL SEWER NOTES
5. CONTRACTOR SHALL USE STANDARD PLAN S-253 AND S-255 FOR SUPPORTING EXISTING UTILITIES IN TRENCH
6. CONTRACTOR SHALL VERIFY INVERT ELEVATIONS IN FIELD AND CONSULT WITH ENGINEER IF ANY DISCREPANCIES OCCUR
7. DUCTILE IRON PIPE SHALL BE RATED FOR CLASS C-150. DIP AND FITTINGS SHALL MEET CITY OF LA STANDARD SPECIFICATION SECTION 15700. DIP SHALL BE WRAPPED IN CORROSION CONTROL POLYETHYLENE ENCASEMENT.
8. CONTRACTOR SHALL MAINTAIN 10' SEPARATION OF NEW FM FROM EX. WATER PIPE
9. FOR RESTRAINED PIPE LENGTH SCHEDULE SEE 3SS-03
10. FOR THRUST BLOCK DETAIL SEE 4SS-03
11. FOR REMOVALS ALONG FORCE MAIN SEWER SEE R-SHEETS.
12. FOR SIDEWALKS RECONSTRUCTION ALONG FORCE MAIN TRENCH SEE DETAIL 6SS-04.

STRUCTURE TABLE			
STRUCTURE NAME:	NORTHING	EASTING	
MH #1	1737793.18	6482290.40	
WYE LINE A (1)	1737802.64	6482410.63	
MH#6135020	1737695.66	6482417.45	
CO LINE C	1737559.71	6482420.98	
MH #2	1737634.07	6482421.32	
FM1	1737645.58	6482580.93	
FM2	1737591.22	6482693.23	
FM3	1737586.13	6482727.16	
MH #3	1737569.41	6481724.84	
MH #6135021	1737586.99	6482712.18	



No.	CONSTRUCTION ITEM/NOTE	STD. PLAN/DETAIL NO.
132	VCP SEWER	
136	SEWER MAINTENANCE HOLE	S-142-0, S-121-1
137	HOUSE CONNECTION SEWER	S-110-0
138	SADDLE CONNECTION	27983
140	CLEAN-OUT	S-142-0 MOD 4/SS-04
141	WYE CONNECTION	
143	CAST IRON PIPE	
145	DUCTILE IRON PIPE	

THE PORT OF LOS ANGELES							
NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D	NO.	DATE
1	4/3/20	AFN	ADDED NOTES	AFN	HAZ		
2	1/2021	LM	CHANGED DETAILS 2SS-02, 3SS-02, 4SS-02, MODIFIED GENERAL NOTES	AFN	HAZ		

ENGINEERING CITY OF LOS ANGELES

DATE: BY:

SERIAL NO.

B - PERMITS BR600508

INDEX NO. P-38614

BUREAU OF ENGINEERING

NO. REVISIONS:

APPROVAL:

CHECKED BY: (PRINTED NAME)

DATE

SIGNATURE:

THE PORT OF LOS ANGELES

DESIGN GROUP

ENGINEER: A. NEWBOLD

DESIGNED BY: A. NEWBOLD

DRAWN BY: A. NEWBOLD

CHECKED BY: C. SAR

APPROVED BY: C. SAR

CITY OF LOS ANGELES

PROJECT NO. 1-3192

DRAWING NO. SS-02

SHEET 08 OF 13 SHEETS

REVISION DATES (DESIGN STAGES ONLY)

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

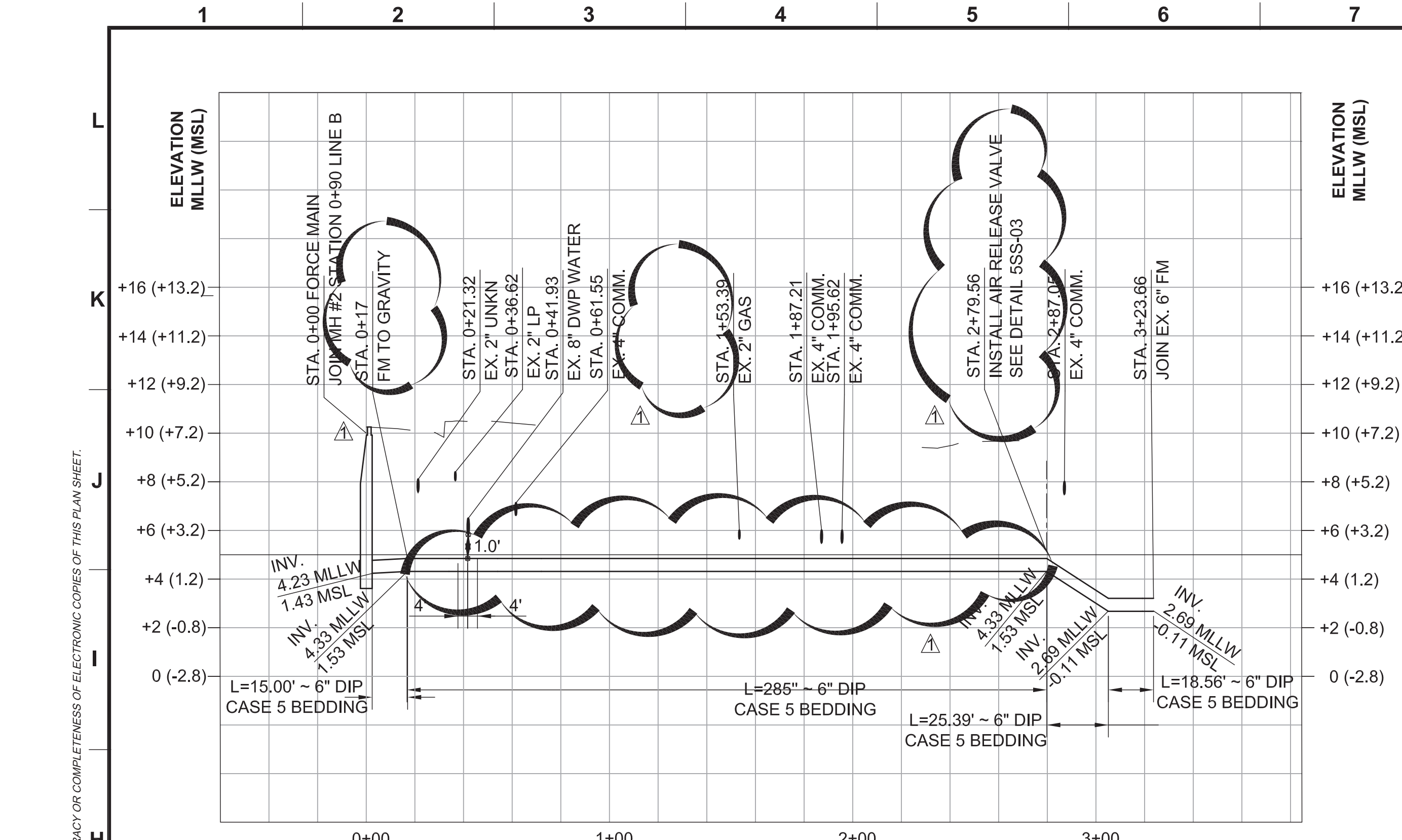
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Sheet Version 4.01 2-2005



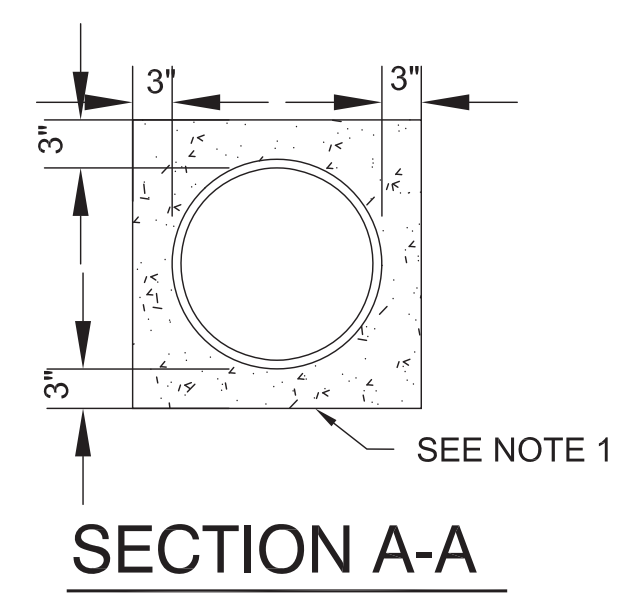
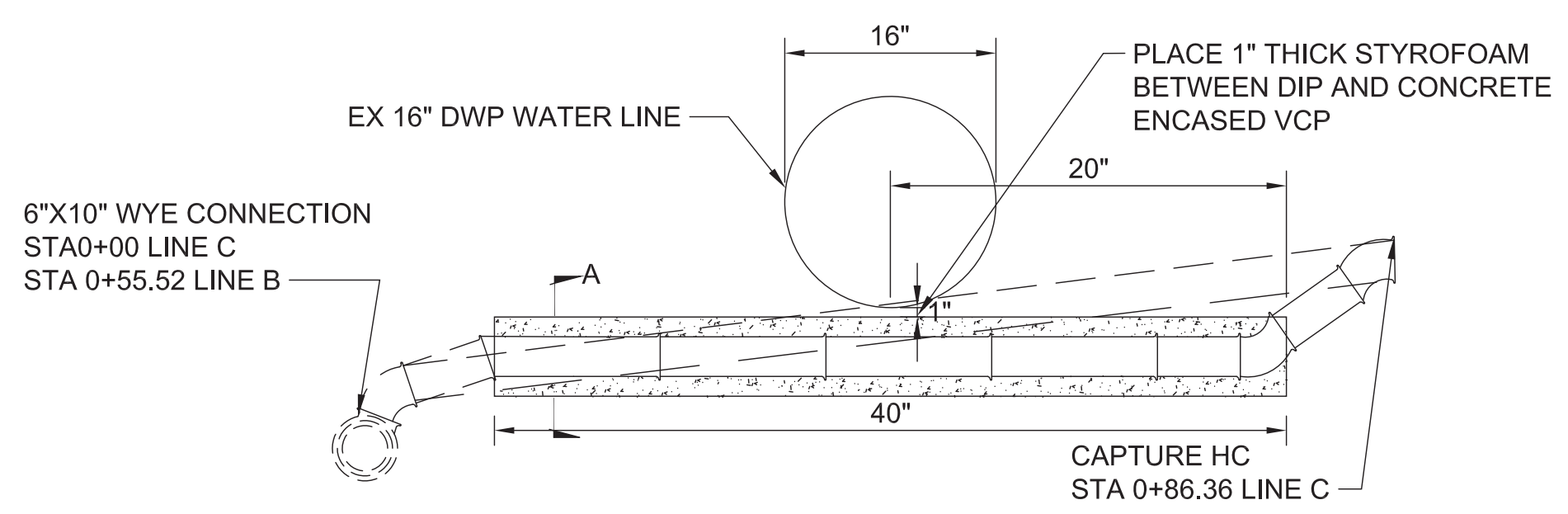
PLANS PREPARED BY:

425 S. PALMS VENUE STREET SANA PLENO CA 90731-3309



**NOTE:**  
 1. PER LOS ANGELES DEPARTMENT OF PUBLIC HEALTH SEWER LINES SHALL HAVE 1 FOOT VERTICAL SEPARATION FROM POTABLE WATER LINES, AND NO JOINTS IN THE SEWER WITHIN 4' HORIZONTALLY AT EACH SIDE OF THE CROSSING PER DIMENSIONS SHOWN.

**1SS-03 SEWER PROFILE - "FORCE MAIN"**  
 SS-02 SCALE: HORIZ. 1" = 40'  
 VERT. 1" = 4'



**2SS-03 HOUSE CONNECTION REMODELING CASE D**  
 SS-02 SCALE: NOT TO SCALE

**NOTE:**  
 1. HOUSE CONNECTION SS LATERAL SHALL BE CONCRETE ENCASED. CLASS 420-C2000 CONCRETE

**CONSTRUCTION NOTES**

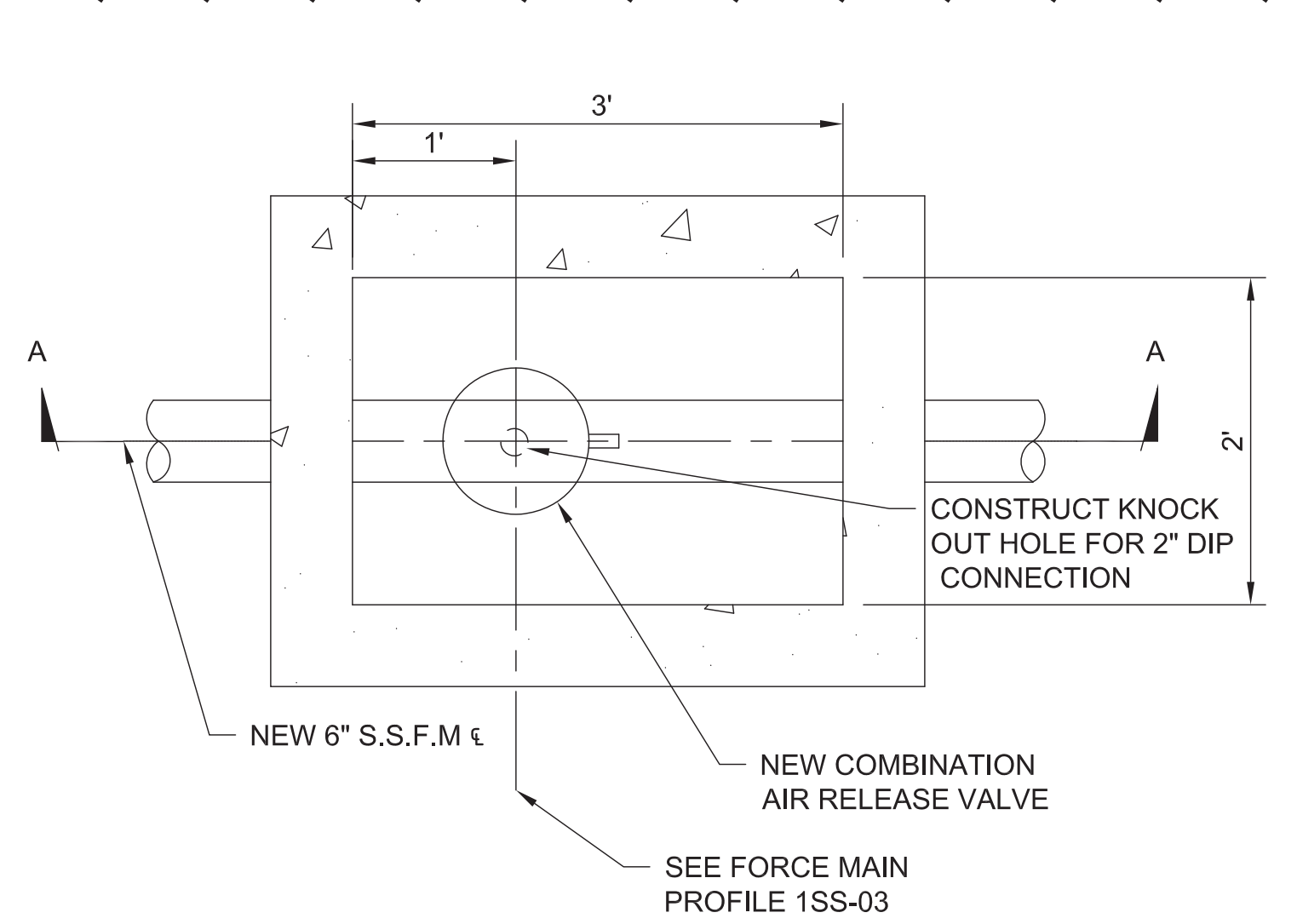
- CONSTRUCT    □ REMODEL EXISTING
- EXISTING    □ REMOVE & RECONSTRUCT
- REMOVE    ○ NOT IN CONTRACT

No.	CONSTRUCTION ITEM/NOTE	STD. PLAN/DETAIL NO.
132	VCP SEWER	
136	SEWER MAINTENANCE HOLE	S-142-0, S121-1
137	HOUSE CONNECTION SEWER	S-110-0
140	CLEAN OUT	S-164-0 MOD/4SS-04
141	WYE CONNECTION	
142	ADJUST SEWER MANHOLE TO GRADE	S-137-1
143	CAST IRON PIPE	
145	DUCTILE IRON PIPE	

FITTING	4"	6"	8"	10"	12"	14"
22.5° ELBOW	18'	18'	18'	18'	18'	18'
45° ELBOW	18'	18'	18'	18'	18'	18'
90° ELBOW	18'	18'	18'	21'	25'	28'
VALVE & DEAD END	43'	60'				
TEE RUNS	18'	18'				
TEE BRANCH	18'	18'				

\*STRAIGHT RUN OF PIPE DIRECTLY CONNECTED TO FITTING.

**3SS-03 RESTRAINED PIPE LENGTH SCHEDULE\***  
 SS-03 NOT TO SCALE



**NOTE:**  
 1. COMBINATION AIR RELEASE VALVE SHALL COMPLY WITH TECHNICAL SPECIFICATION SECTION 15089.  
 2. PRIOR TO ANY WORK, CONTRACTOR MUST SUBMIT AIR RELEASE VALVE SHOP DRAWINGS AND CONSTRUCTION SEQUENCE OF WORK INCLUDING TRAFFIC DETOUR PLAN PER WATCH MANUAL TO PROJECT ENGINEER FOR REVIEW AND APPROVAL.  
 3. CONTRACTOR IS REQUIRED TO COORDINATE WITH BUREAU OF SANITATION (BOS) NICK STEFFEN (213) 344-8411, PRIOR TO ANY WORK ON AIR RELEASE VALVES.  
 4. ALL PRODUCTS SHALL BE FROM THE BUREAU OF ENGINEERING APPROVED PRODUCTS LIST.

**5SS-03 AIR RELEASE VALVE AND VAULT**  
 SS-02 SCALE: NOT TO SCALE

**THRUST BLOCK SCHEDULE**  
 BEARING AREAS IN SQ. FT.

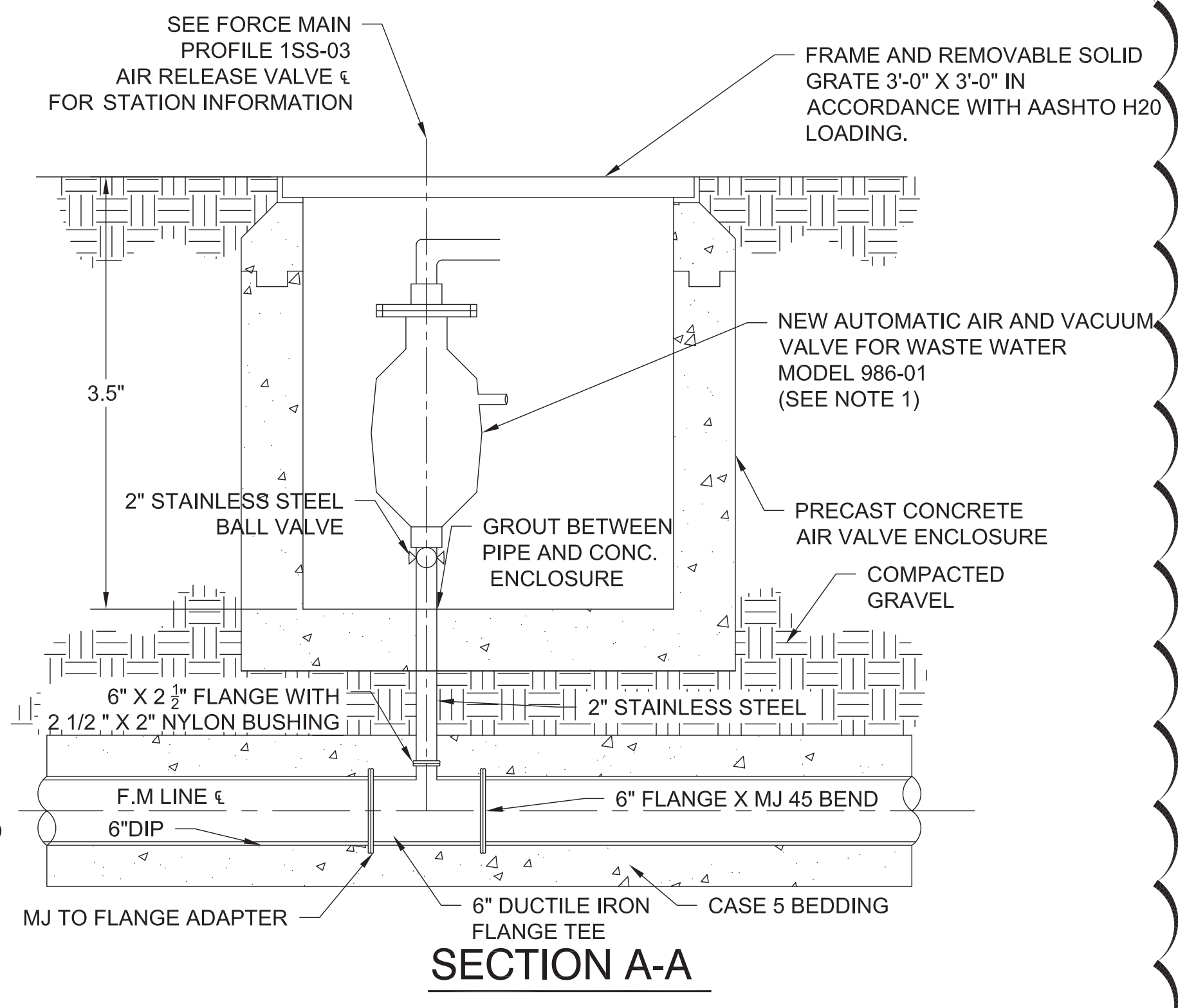
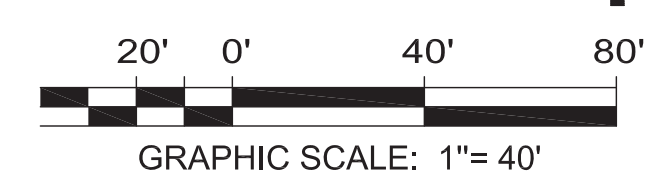
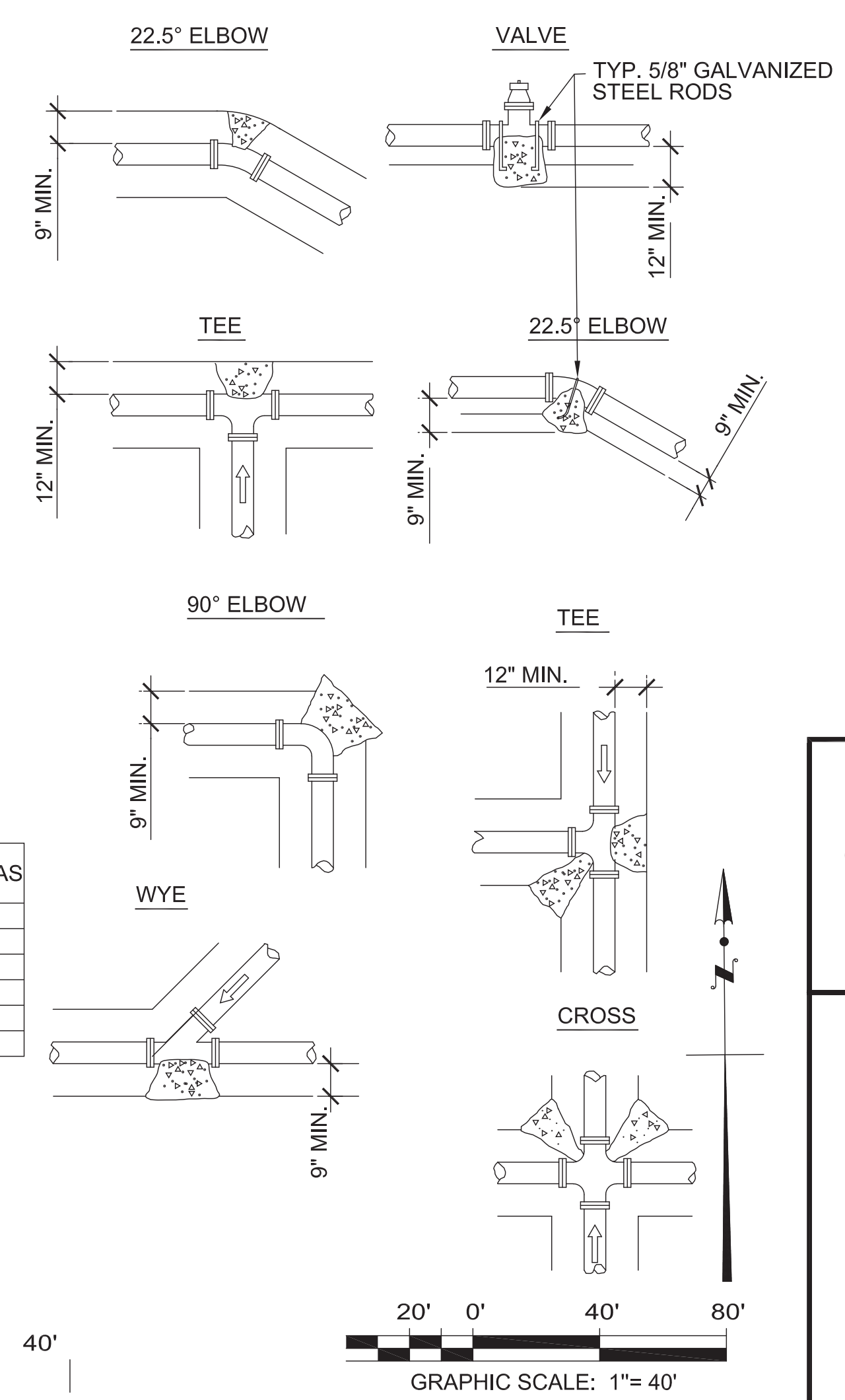
PIPE SIZE	TABLE I				
	90° ELBOW	45° ELBOW	22-1/2° ELBOW	11-1/4° ELBOW	VALVES, TEES & DEAD ENDS
4" & 6"	5.5	3.0	1.5	1.0	3.9
8"	9.3	5.1	2.6	1.5	6.6
10"	15.5	8.4	4.3	2.0	10.9
12"	21.7	11.2	5.6	3.0	15.3
14"	29.0	16.0	9.0	4.0	21.8

**NOTE:**  
 1. ABOVE BEARING AREAS ARE BASED ON THE WATER PRESSURE OF 200 P.S.I.  
 2. ASSUMED BEARING STRENGTH OF SOIL IS 2000 LB./SQ.FT.  
 3. THRUST BLOCK SHALL BE CONCRETE CLASS 450-C-2000 IN ACCORDANCE WITH REFERENCE SPEC. SECT. 201-1

SOIL TYPE	MAX. ALLOWABLE SOIL BEARING VALUES	FACTORS FOR INCREASING AREAS IN TABLE I
LOOSE SAND	500 PSF	4
SOFT SANDY CLAY	1000 PSF	2
ADOBE	1000 PSF	2
COMPACT FINE SAND	2000 PSF	1
COMPACT COARSE SAND	2000 PSF	1
MEDIUM STIFF CLAY	2000 PSF	1

\*\*\* THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE SAFE SOIL BEARING VALUES AND THE POSITION AND SIZE OF BEARING AREAS.  
 \*\*\*\* BASED ON 2 FEET MINIMUM DEPTH OF COVER OVER THE PIPE.

**4SS-03 THRUST BLOCK DETAILS**  
 SS-03 NOT TO SCALE



**SECTION A-A**

THE PORT OF LOS ANGELES									
NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D	NO.	DATE	DRAWN	REVISIONS -
1	4/3/20	AFN	ADDED DETAILS 5SS-03	AFN	HAZ				
2	1/20/21	LM	CHANGED PROFILE 1SS-03, CHANGED DETAIL 5SS-03	AFN	HAZ				



**THE PORT OF LOS ANGELES ENGINEERING DIVISION**  
 425 S. PALMS VERDES STREET, SAN PEDRO, CA 90731-3300

**ENGINEERING**  
 CITY OF LOS ANGELES

DATE: BY: \_\_\_\_\_  
 NO. REVISIONS: \_\_\_\_\_  
 WORK ACCEPTED: \_\_\_\_\_  
 SERIAL NO. \_\_\_\_\_  
 B - PERMITS BR600508  
 INDEX NO. P-38614

**BUREAU OF ENGINEERING**  
 APPROVAL: \_\_\_\_\_  
 CHECKED BY: (PRINTED NAME) \_\_\_\_\_ DATE \_\_\_\_\_  
 SIGNATURE: \_\_\_\_\_

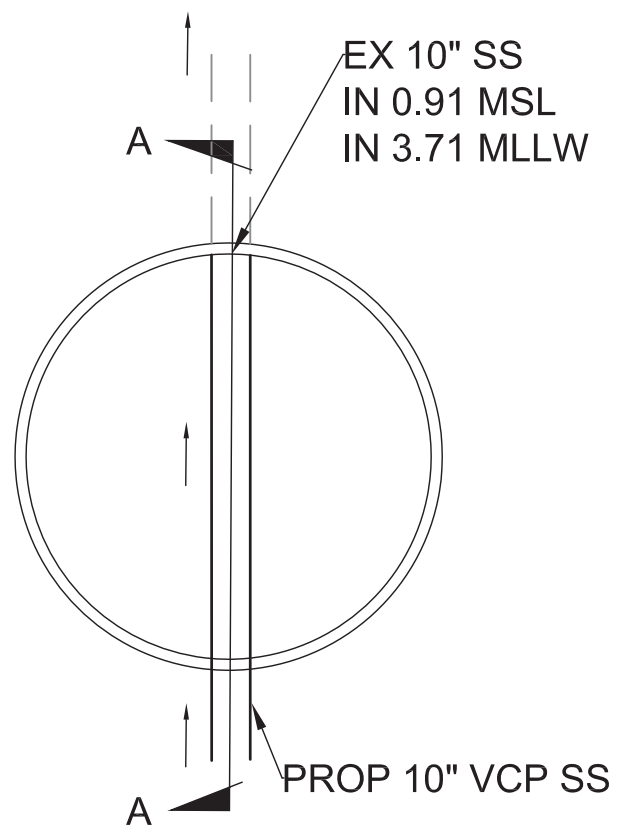
**DEPARTMENT OF PUBLIC WORKS**  
 THE PORT OF LOS ANGELES  
 DESIGN GROUP: \_\_\_\_\_  
 ENGINEER: A. NEWBOLD  
 DESIGNED BY: A. NEWBOLD  
 DRAWN BY: A. NEWBOLD  
 CHECKED BY: C. SAR  
 APPROVED BY: C. SAR

**SEWER PLAN**  
 WILMINGTON WATERFRONT  
 PROMENADE PROJECT  
 301 S. AVALON BLVD  
 WILMINGTON, CA 90744

PROJECT NO. 1-3192  
 DRAWING NO. SS-03  
 SHEET 09 OF 13 SHEETS

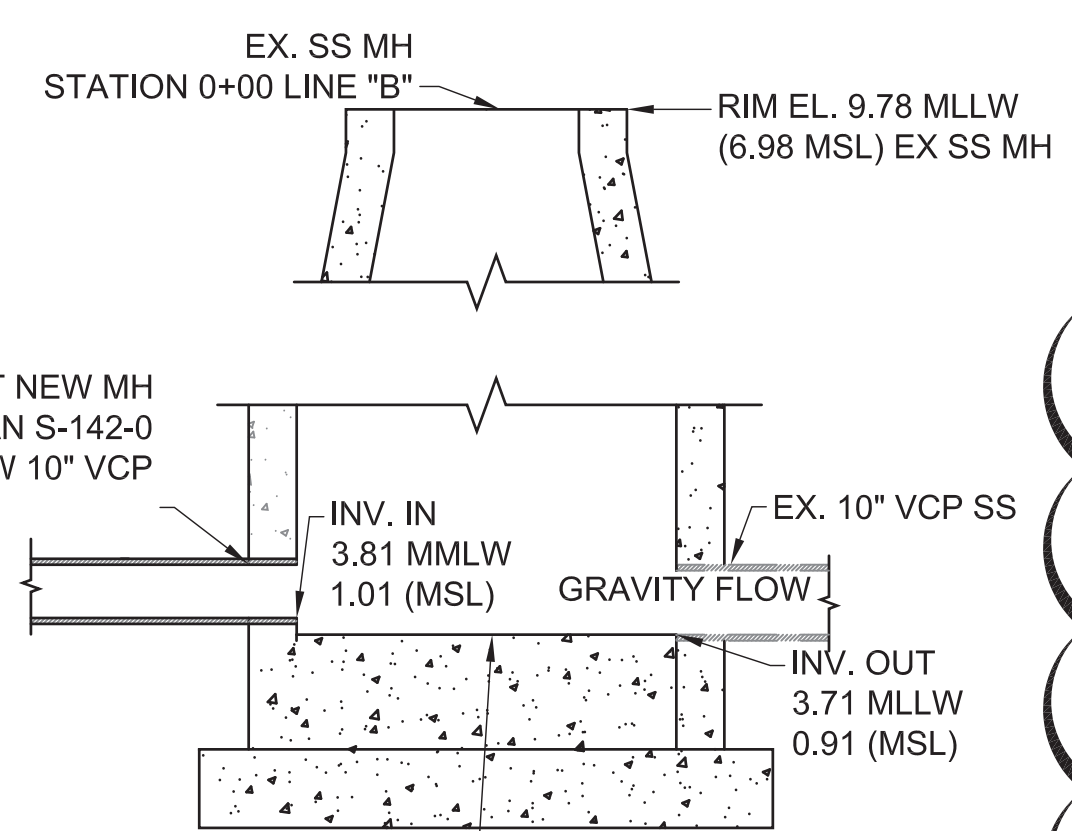
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 THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.  
 REVISION DATES (DESIGN STAGES ONLY)

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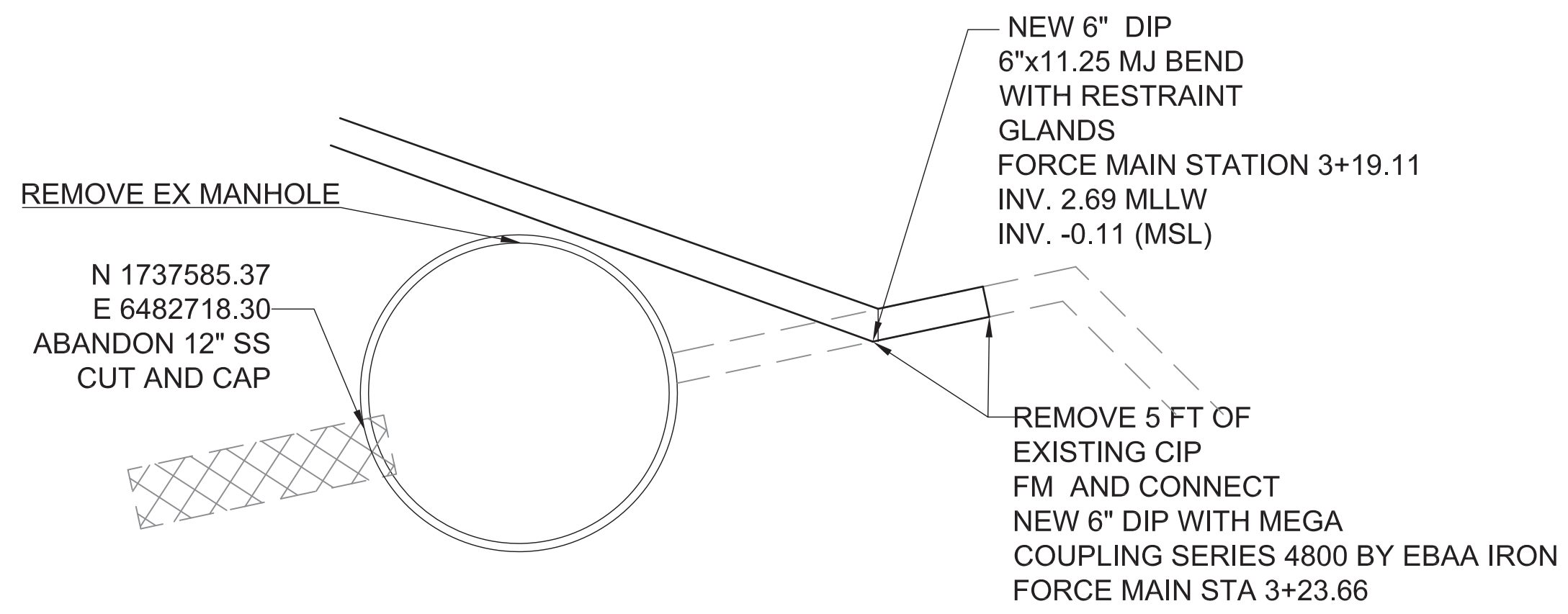


**NOTES:**  
1) CONSTRUCT PER S-140-0 CONFIGURATION

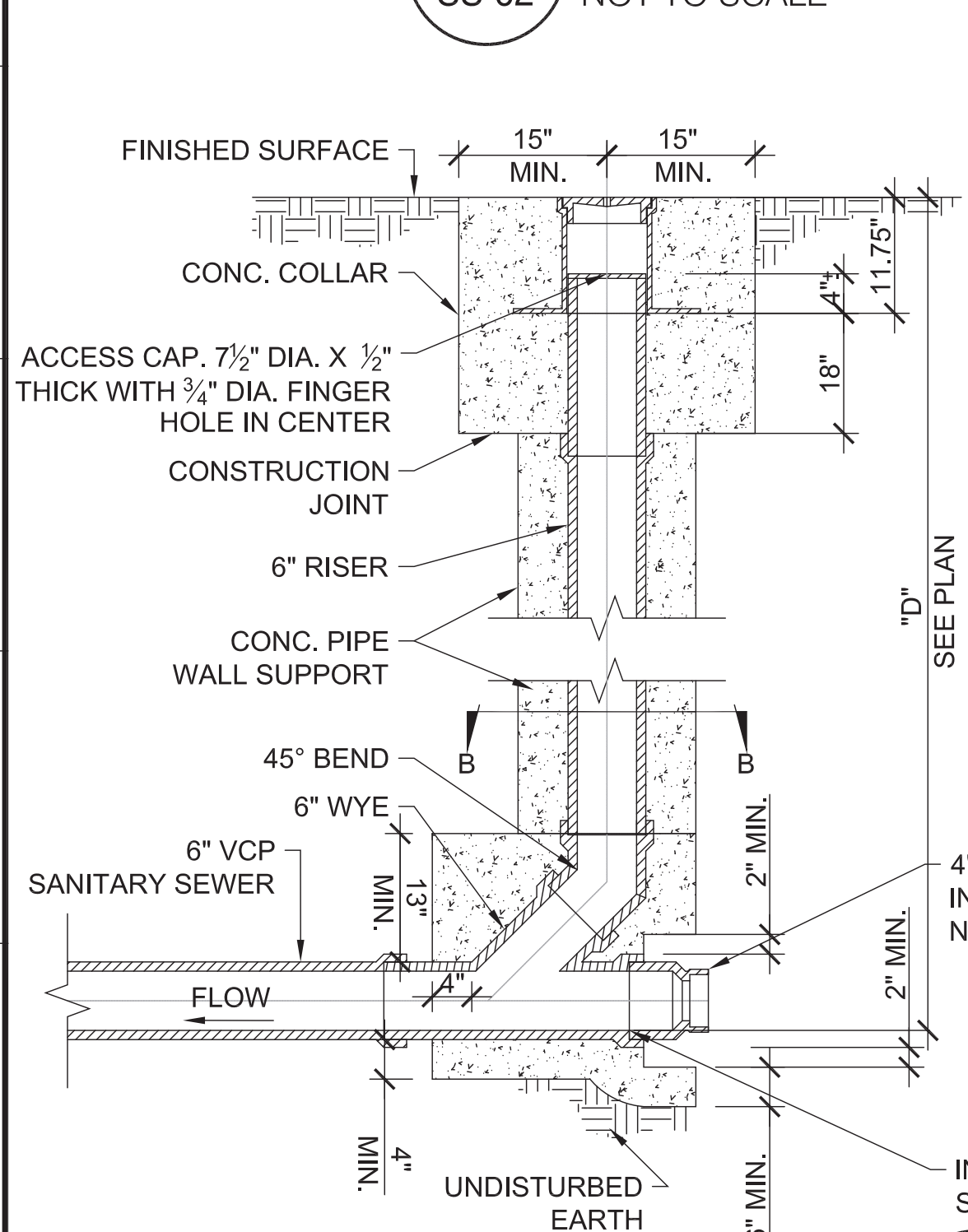
**1SS-04 NEW 10" VCP TO EX. 10" MH**  
**SS-02 NOT TO SCALE**



**SECTION A-A**  
NOT TO SCALE

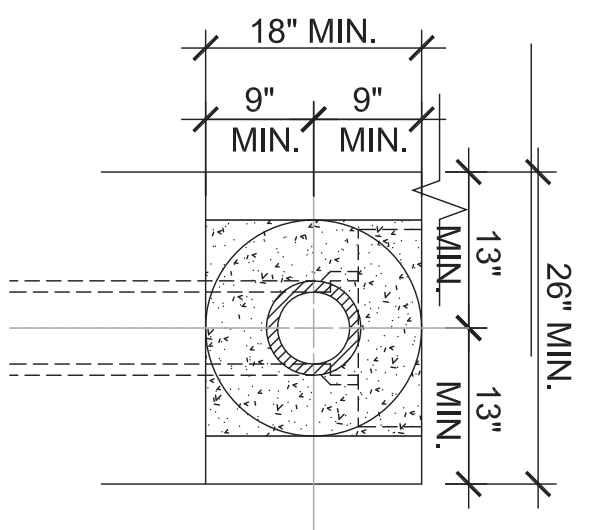


**3SS-04 FORCE MAIN CONNECTION DETAIL**  
**SS-02 NOT TO SCALE**



**SECTION A-A**  
NOT TO SCALE

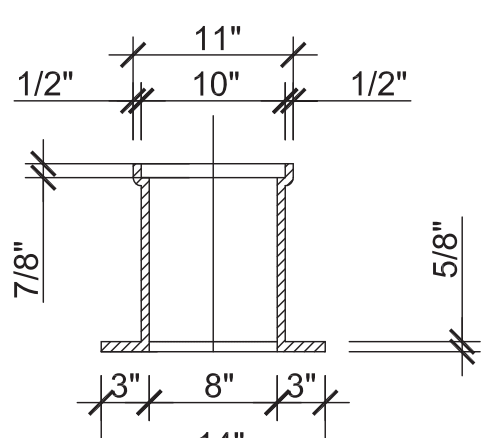
**4SS-04 MODIFIED CLEAN-OUT STRUCTURE**  
**SS-04 PER STD. PLAN S-164-0**  
NOT TO SCALE



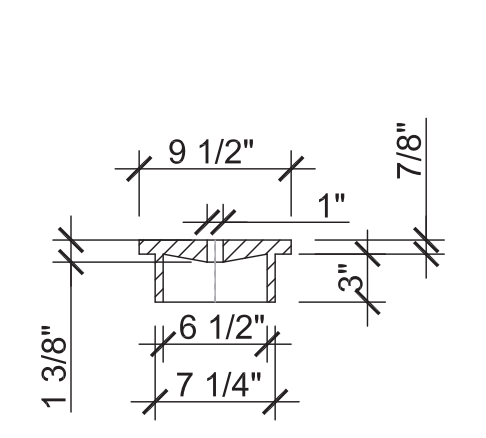
**SECTION B-B**  
NOT TO SCALE

**ACCESS FRAME**  
NOT TO SCALE

**ACCESS COVER**  
NOT TO SCALE



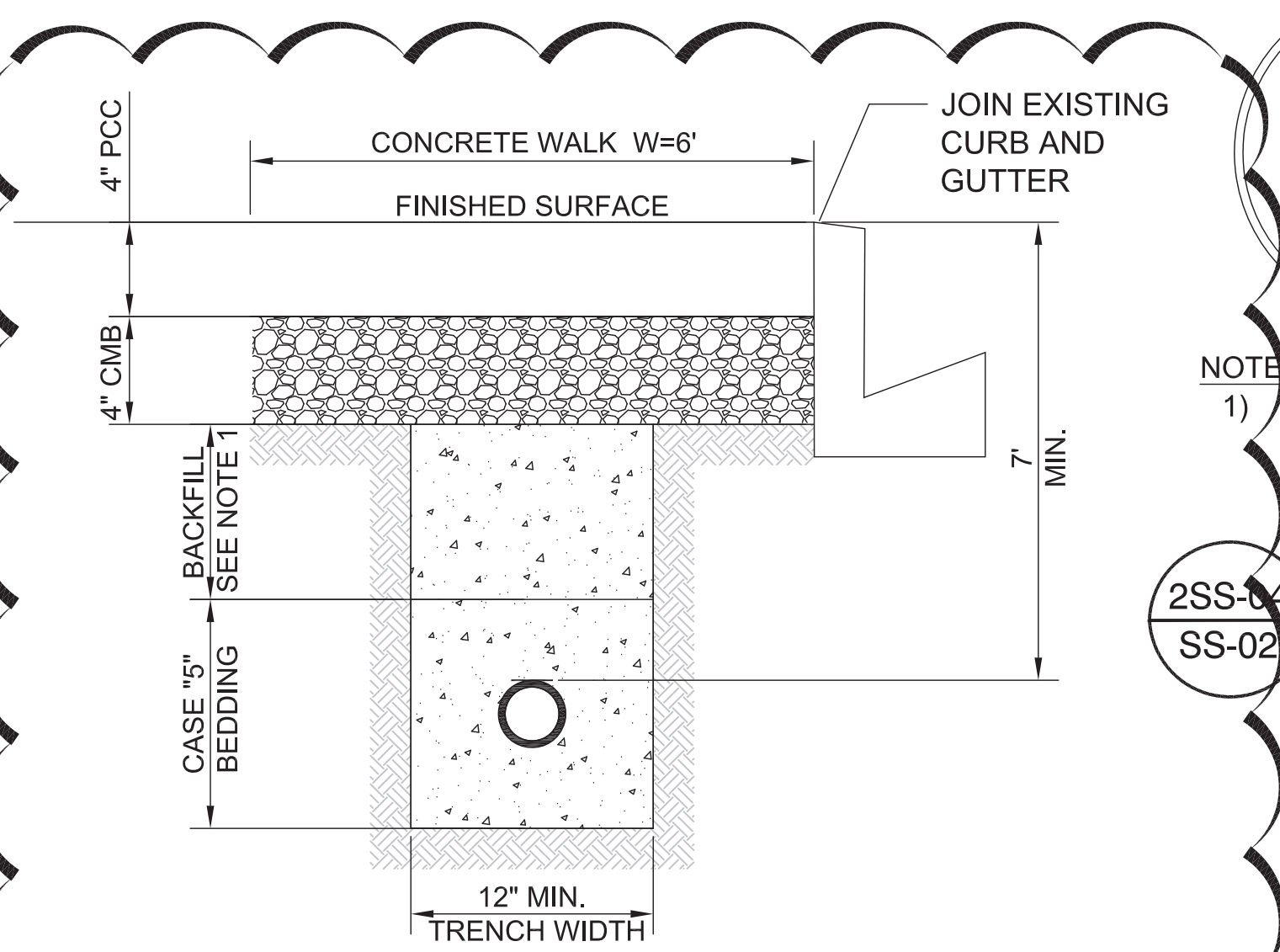
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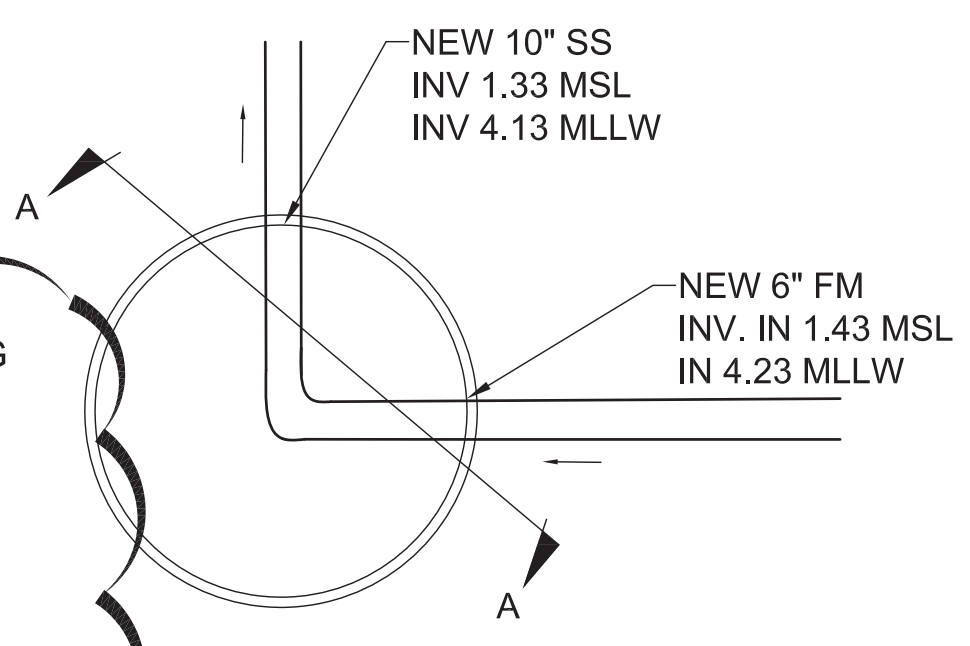
**SECTION D-D**  
NOT TO SCALE

- NOTES:**
- BACKFILL WITH SLURRY CONCRETE CLASS 100-E-100 PER SPECIFICATIONS.
  - CONTRACTOR SHALL INSTALL CORROSION CONTROL POLYETHYLENE ENCASUREMENT FOR 6" FORCE MAIN DIP PER ANSI/AWWA C105/A21.5
  - INSTALL DETECTION TAPE IN PLASTIC STRIP TAPE THE FULL LENGTH OF TRENCH. SEE SPECIFICATIONS.
  - CONSTRUCT CONCRETE WALK PER STD. PLAN S-444-0. SEE REMOVAL SHEETS FOR RECONSTRUCTION LENGTH.
  - CONCRETE WALK SHALL JOIN EXISTING CURB AND GUTTER.

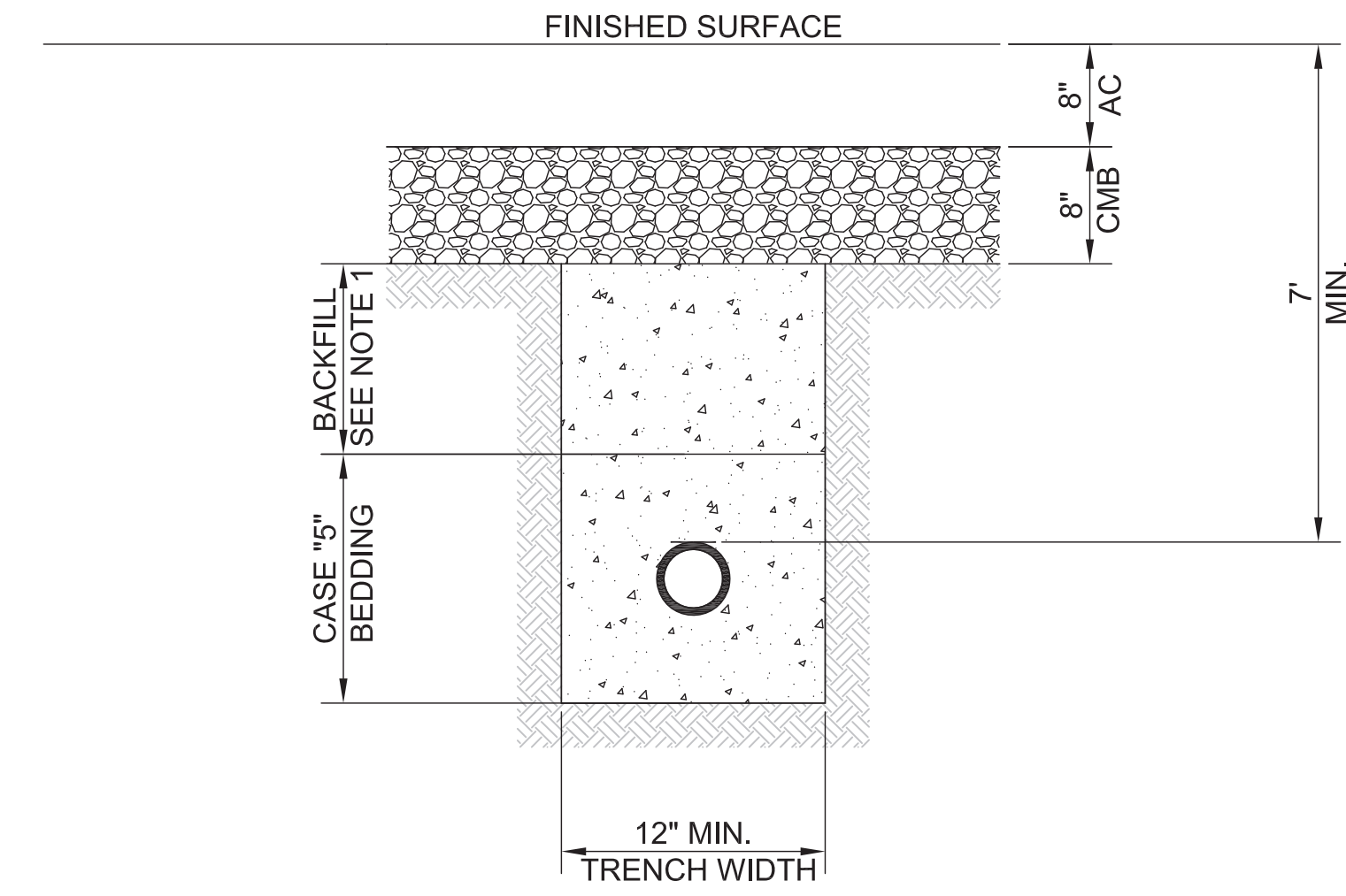
**6SS-04 CONCRETE WALK TRENCH DETAIL**  
**SS-02 NOT TO SCALE**



**2SS-04 MANHOLE DETAIL FM TO GRAVITY**  
**SS-02 NOT TO SCALE**

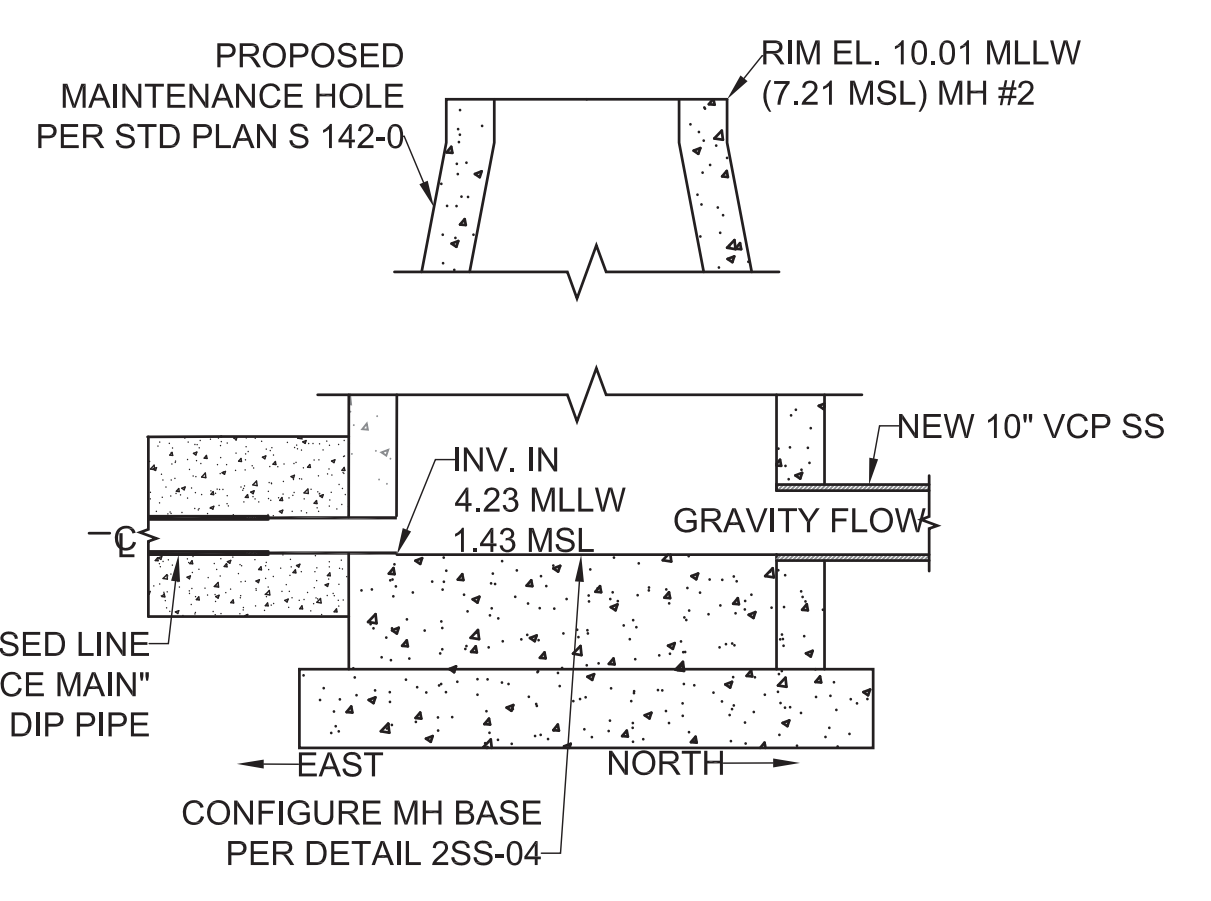


**NOTES:**  
1) CONSTRUCT PER S-140-0 CONFIGURATION MHB



- NOTES:**
- BACKFILL WITH SLURRY CONCRETE CLASS 100-E-100 PER SPECIFICATIONS.
  - CONTRACTOR SHALL INSTALL CORROSION CONTROL POLYETHYLENE ENCASUREMENT FOR 6" FORCE MAIN DIP PER ANSI/AWWA C105/A21.5
  - INSTALL DETECTION TAPE IN PLASTIC STRIP TAPE THE FULL LENGTH OF TRENCH. SEE SPECIFICATIONS.
  - ASPHALT CONCRETE PAVEMENT SHALL BE CLASS B-PG-70-10
  - EXISTING PAVEMENT SECTION TO BE REMOVED PRIOR TO FORCE MAIN CONSTRUCTION CONSTRUCTION CONSTRUCT PER STANDARD PLAN 477-1
  - TRENCH DETAIL FOR CONSTRUCTION WITHIN POLA ROW. FOR CITY ROW CONSTRUCTION CONSTRUCT PER STANDARD PLAN 477-1
  - REMOVE EXISTING RAIL TRACKS WITHIN TRENCH ALIGNMENT, REPLACE AS SHOWN IN DETAIL.

**5SS-04 FORCE MAIN TRENCH DETAIL**  
**SS-04 NOT TO SCALE**



**SECTION A-A**  
NOT TO SCALE

**THE PORT OF LOS ANGELES**

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D	NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D
1	1/20/2	LM	SHIFTED DETAILS AROUND, ADDED DETAIL 6SS-04.	APN	HAZ						

**BUREAU OF ENGINEERING**

**ENGINEERING**  
CITY OF LOS ANGELES

**DATE:** BY: \_\_\_\_\_

**NO. REVISIONS:** \_\_\_\_\_

**WORK ACCEPTED** SERIAL NO. \_\_\_\_\_

**B - PERMITS** BR600508

**INDEX NO.** P-38614

**BUREAU OF ENGINEERING**

**APPROVAL:** \_\_\_\_\_

**CHECKED BY:** (PRINTED NAME) \_\_\_\_\_

**DATE** \_\_\_\_\_

**SIGNATURE:** \_\_\_\_\_

**DESIGN GROUP**

**ENGINEER:** A. NEWBOLD

**DESIGNED BY:** A. NEWBOLD

**DRAWN BY:** A. NEWBOLD

**CHECKED BY:** C. SAR

**APPROVED BY:** C. SAR

**THE PORT OF LOS ANGELES**

**REGISTERED PROFESSIONAL ENGINEER**  
No. C75602  
Exp. 06/30/20  
CIVIL  
STATE OF CALIFORNIA

**THE PORT OF LOS ANGELES**  
ENGINEERING DIVISION  
425 S. PALMS VERDES STREET SANA FERRAZ CA 90731-3309

**PROJECT NO.** 1-3192

**DRAWING NO.** SS-04

**SHEET 10 OF 13 SHEETS**

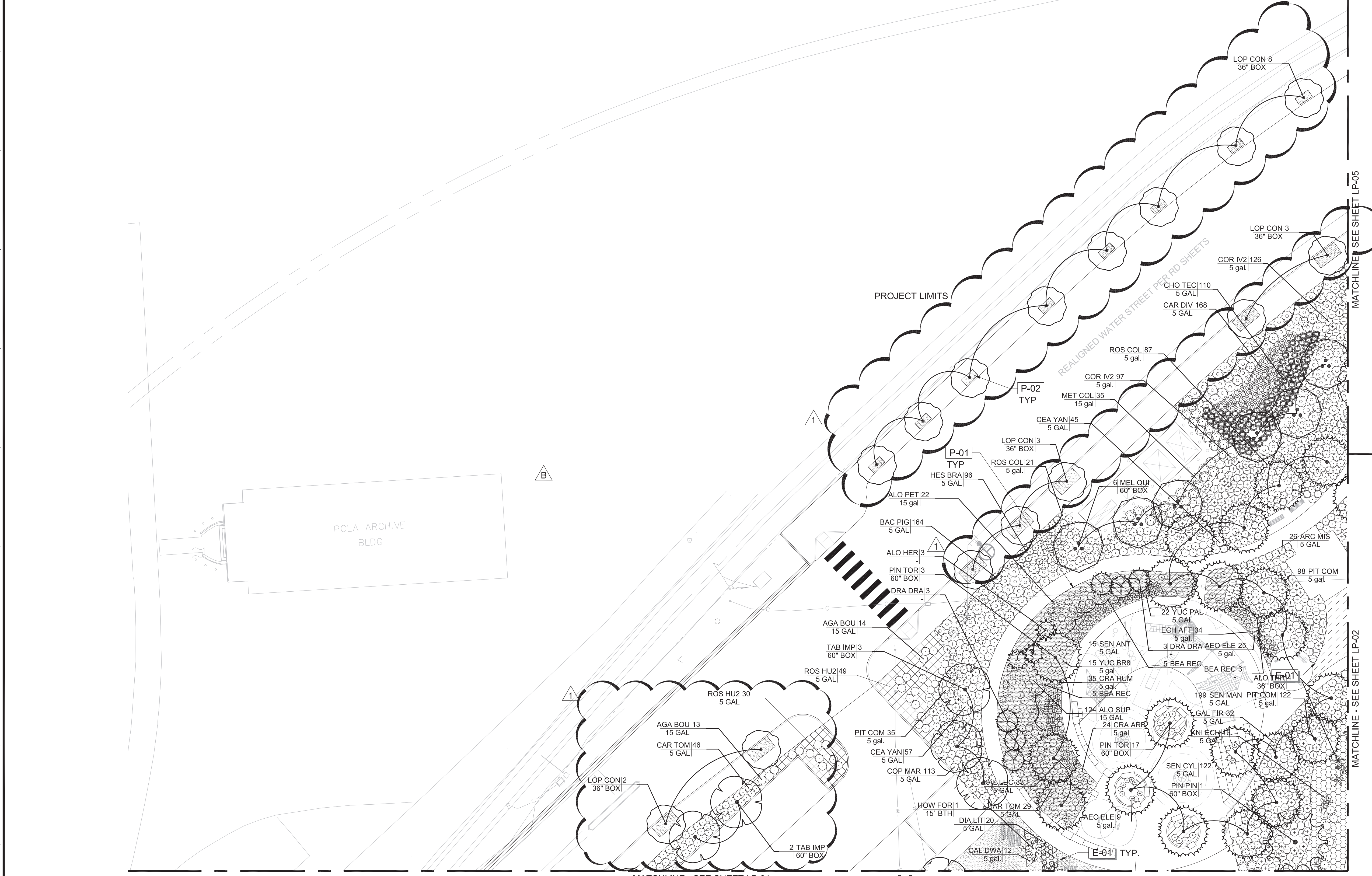
**SEWER DETAILS**  
WILMINGTON WATERFRONT  
PROMENADE PROJECT  
301 S. AVALON BLVD  
WILMINGTON, CA 90744

**CONSTRUCTION NOTES**

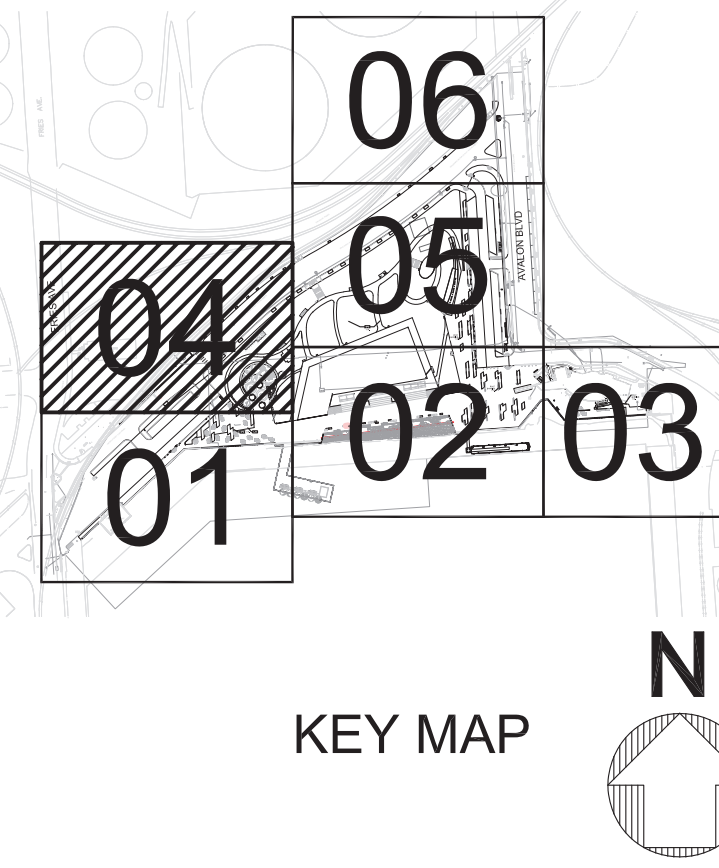
SEE LP-07 FOR COMPLETE PLANTING LEGEND AND SCHEDULE

**PLANT SCHEDULE**

TREES	CODE	BOTANICAL / COMMON NAME
	ALO HER	ALOE X 'HERCULES' / HERCULES ALOE
	BEA REC	BEAUCARNEA RECURVATA / PONY TAIL PALM
	DRA DRA	DRACAENA DRACO / DRAGON TREE
	LOP CON	LOPHOSTEMON CONFERTUS / BRISBANE BOX
	MEL NES	MELALEUCA NESOPHILA / PINK MELALEUCA MULTI-TRUNK
	MEL QUI	MELALEUCA QUINQUENERVIA / CAJEPUT TREE MULTI-TRUNK
	PIN PIN	PINUS PINEA / ITALIAN STONE PINE
	PIN TOR	PINUS TORREYANA / TORREY PINE
	QUE ILE	QUERCUS ILEX / HOLLY OAK
	TAB IMP	TABEUBIA IMPETIGINOSA / PINK TRUMPET TREE
PALM TREES	CODE	BOTANICAL / COMMON NAME
	HOW FOR	HOWEA FORSTERIANA / KENTIA PALM



1LP-04 PLANTING PLAN - AREA 4  
SCALE: 1" = 20'



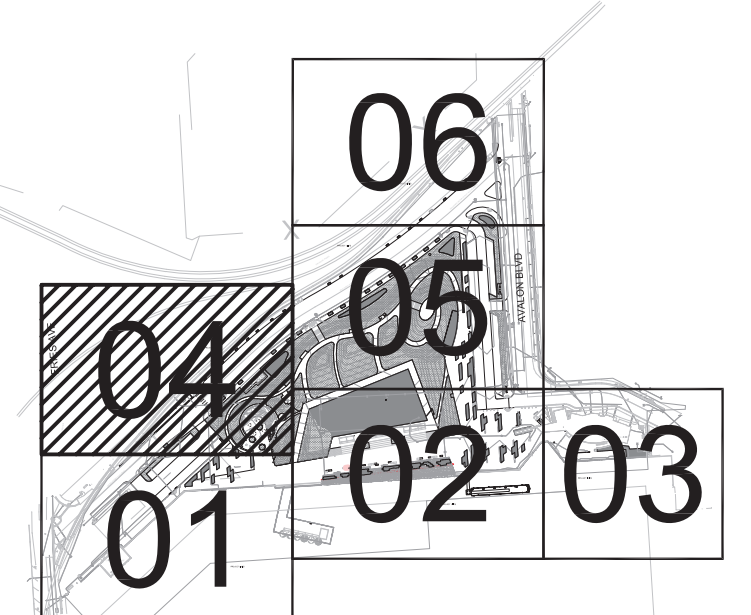
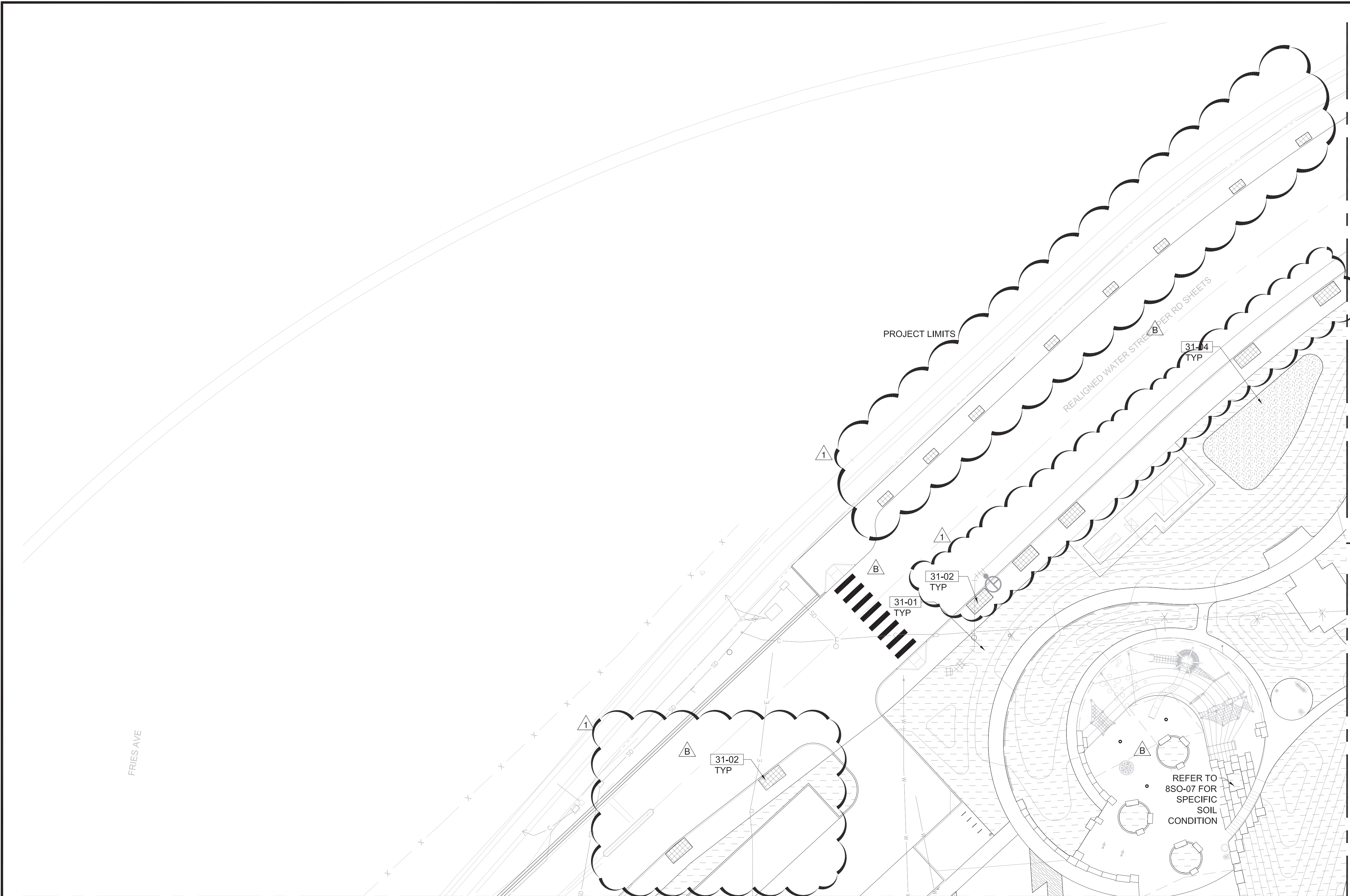
NO.	DATE	DRAWN	REVISIONS -	CHKD	APPD	NO.	DATE	DRAWN	REVISIONS -	CHKD	APPD	WILMINGTON WATERFRONT PROMENADE <b>PLANTING PLAN - AREA 4</b> DRAWING NUMBER: 1-3192 LP-04	
B	4/13/20	MR	REMOVED STREET TREES (D-6)	EM	JH							SCALE: AS SHOWN DRAWN: E. MARECKI, M. ROMERO CHECKED: J. HUTCHINS, J. DYER DESIGNED: E. MARECKI, M. ROMERO ENGINEER / ARCHITECT	
A	2/17/21	MR	ADJUSTED STREET TREE LOCATIONS (A-6 TO G-11)	EM	ML							THE PORT OF LOS ANGELES ENGINEERING DIVISION 425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309	
MIA LEHRER + ASSOCIATES 185 S. MYERS ST., LOS ANGELES, CA 90033 www.mlaonline.com												DRAWING NUMBER: 1-3192 LP-04 SHEET NUMBER:	

DWG: P:\WIP\2013\Wilmington Waterfront Park (POLA)\Carla.dell\1-3192 LP.dwg - USER: etc  
 DATE: Mar 02, 2022 5:55pm XREFS: 1-3192 TOPO 1-3192 LV-XREF 1-3192 LW-XREF 1-3192 SUBS 1-3192 LP-XREF 1-3192 G-XREF 1-3192 GP-XREF 1-3192 LI signature 1-3192 LM-XREF DELTA 1-3192 LP-XREF 1-3192 LS-XREF 1-3192 STAMP

**CONSTRUCTION NOTES**

SEE SO-00 FOR SOIL SCHEDULE

SYMBOL	31 EARTHWORK DESCRIPTION
	31-01 TYPICAL PLANTING SOIL
	31-02 STREET TREE PLANTING SOIL
	31-03 SPECIALTY PLANTING SOIL
	31-04 STORMWATER PLANTING SOIL
	31-05 TYPICAL PLANTING SOIL AT TURF
	31-06 NON-FILL TYPICAL PLANTING SOIL
	31-07 GREENROOF PLANTING SOIL



**1SO-04 SOILS PLAN - AREA 4**  
 SO-04 SCALE: 1" = 20'

**KEY MAP**  
 SCALE: 1" = 400'

NO.	DATE	DRAWN	REVISIONS -	CHKD	APPD	NO.	DATE	DRAWN	REVISIONS -	CHKD	APPD
B	4/13/20	MR	CORRECTED SHEET REFERENCE (B-11) AND CALLOUTS (B-7, D09, F-11)	EM	JH						
A	2/17/21	MR	ADJUSTED STREET TREE LOCATIONS (A-6 TO G-11)	EM	ML						

SCALE: AS SHOWN

DRAWN: E. MARECKI, M. ROMERO  
 CHECKED: J. HUTCHINS, J. DYER  
 DESIGNED: E. MARECKI, M. ROMERO  
 ENGINEER / ARCHITECT

**WILMINGTON WATERFRONT PROMENADE**

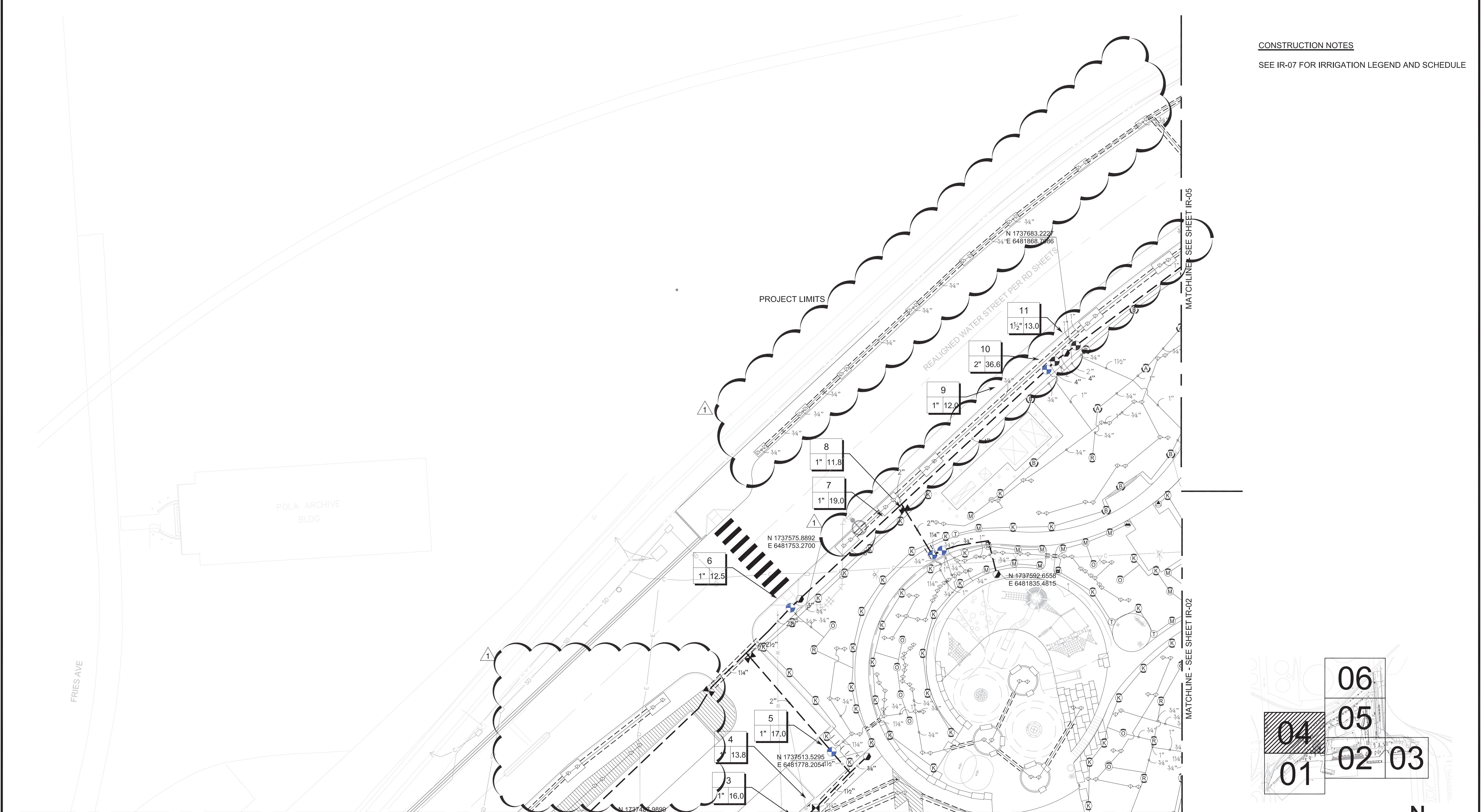
**SOILS PLAN - AREA 4**

THE PORT OF LOS ANGELES  
**ENGINEERING DIVISION**  
 425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

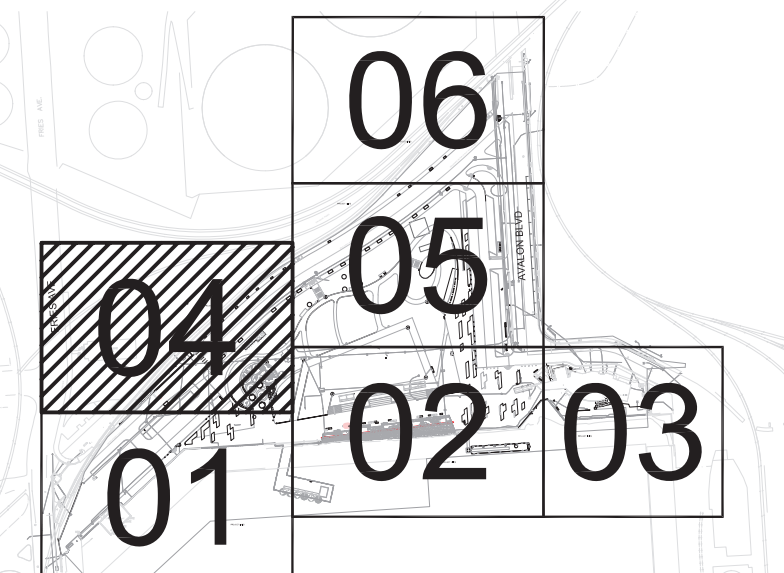
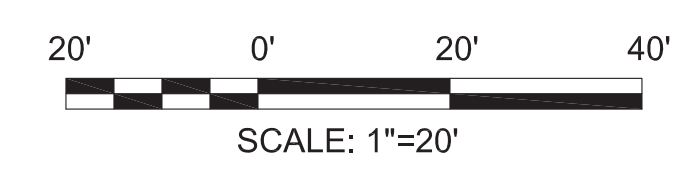
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 SHEET NUMBER: SO-04

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CONSTRUCTION NOTES  
SEE IR-07 FOR IRRIGATION LEGEND AND SCHEDULE



11R-04 IRRIGATION PLAN - AREA 4  
IR-04 SCALE: 1" = 20'

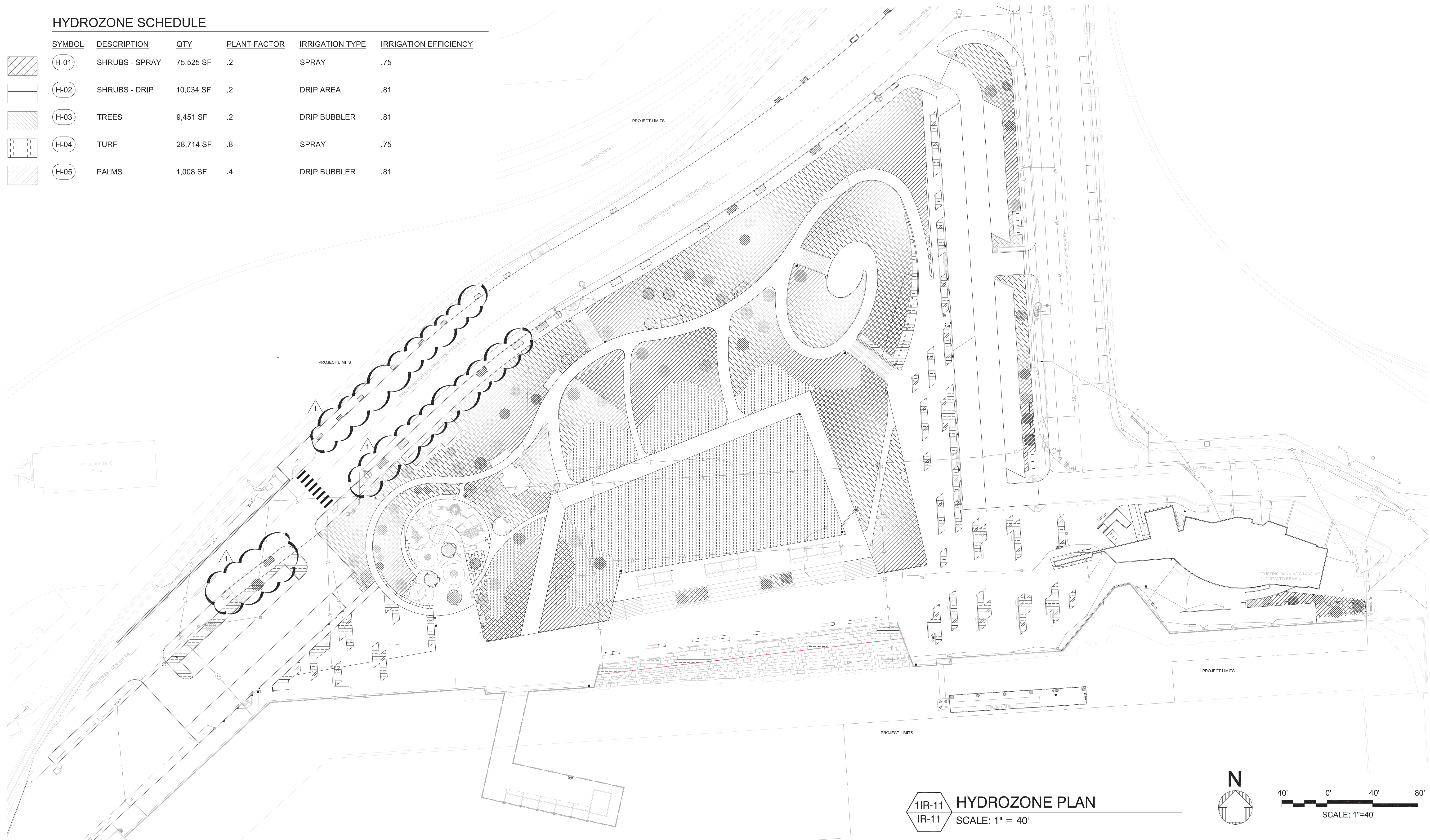


NO.	DATE	DRAWN	REVISIONS -	CHKD	APPD	NO.	DATE	DRAWN	REVISIONS -	CHKD	APPD	WILMINGTON WATERFRONT PROMENADE IRRIGATION PLAN - AREA 4		
1	2/17/21	MR	ADJUSTED STREET TREE LOCATIONS (A-6 TO G-11)	EM	ML								SCALE: AS SHOWN DRAWN: E. MARECKI, M. ROMERO CHECKED: J. HUTCHINS, J. DYER DESIGNED: E. MARECKI, M. ROMERO ENGINEER / ARCHITECT	
													DRAWING NUMBER 1-3192	SHEET NUMBER IR-04

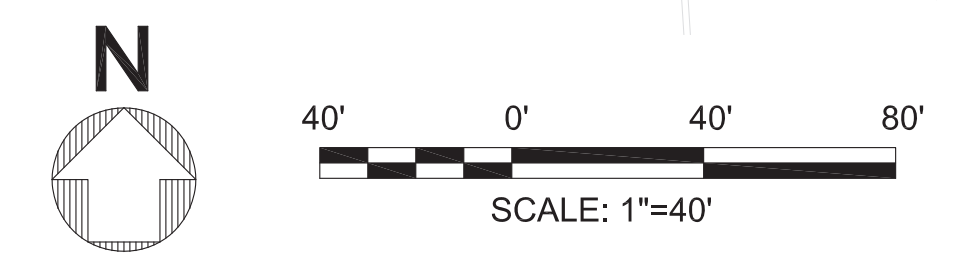
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 DATE: Mar 02 2021 5:23pm XREFS: 1-3192 TOPO 1-3192 SUBS 1-3192 LW-XREF 1-3192 LS-XREF 1-3192 GP-XREF 1-3192 YH-Sheets 1-3192 LI signature 1-3192 DW 00 IMAGES:

**HYDROZONE SCHEDULE**

SYMBOL	DESCRIPTION	QTY	PLANT FACTOR	IRRIGATION TYPE	IRRIGATION EFFICIENCY
	(H-01) SHRUBS - SPRAY	75,525 SF	.2	SPRAY	.75
	(H-02) SHRUBS - DRIP	10,034 SF	.2	DRIP AREA	.81
	(H-03) TREES	9,451 SF	.2	DRIP BUBBLER	.81
	(H-04) TURF	28,714 SF	.8	SPRAY	.75
	(H-05) PALMS	1,008 SF	.4	DRIP BUBBLER	.81



**11R-11 HYDROZONE PLAN**  
SCALE: 1" = 40'



NO.	DATE	DRAWN	REVISIONS -	CHKD	APPD
1	2/17/21	MR	ADJUSTED STREET TREE LOCATIONS (A-6 TO G-11)	EM	ML

NO.	DATE	DRAWN	REVISIONS -	CHKD	APPD



SCALE: AS SHOWN  
DRAWN: E. MARECKI, M. ROMERO  
CHECKED: J. HUTCHINS, J. DYER  
DESIGNED: E. MARECKI, M. ROMERO  
ENGINEER / ARCHITECT



425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

**WILMINGTON WATERFRONT PROMENADE**

**HYDROZONE PLAN**

DRAWING NUMBER SHEET NUMBER  
**1-3192 IR-11**

DWG: P:\W\WP 2015 Wilmington Waterfront Park (POL)\CA\481\1-3192 IR.dwg USER: eric  
 DATE: Mar 02 2021 5:05pm XREFS: 1-3192 KP-XREF 1-3192 TOPO 1-3192 SUBS 1-3192 LS-XREF 1-3192 LP-XREF 1-3192 LS-XREF 1-3192 SUBMITTAL STAMP 1-3192 IR-XREF 1-3192 GP-XREF 1-3192 YH-Sheets 1-3192 LI signature 1-3192 DW 00 IMAGES:

**CONSTRUCTION NOTES**

- CONSTRUCT
- RELOCATE
- EXISTING
- REMOVE & RECONSTRUCT
- REMOVE
- NOT IN CONTRACT

NO. CONSTRUCTION ITEM

- 471 1"C-2#10 AND 1#10 GND
- 472 1"C-4#10 AND 1#10 GND
- 473 1"C-6#10 AND 1#10 GND

SEE REVISED LADWP  
EQUIPMENT LAYOUT, SEE  
E-18 AND POLA DRAWING  
SET 1-3434. PER NEW  
LADWP REQUIREMENTS

2E-07  
SEE ENLARGED  
PLAN

MAIN SERVICE  
SWITCH BOARD  
MSB, 800A,  
277/480 V, 3Ø, 4W

REALIGNED WATER STREET PER RD SHEETS

MATCHLINE - SEE SHEET E-05

MATCHLINE - SEE SHEET E-02

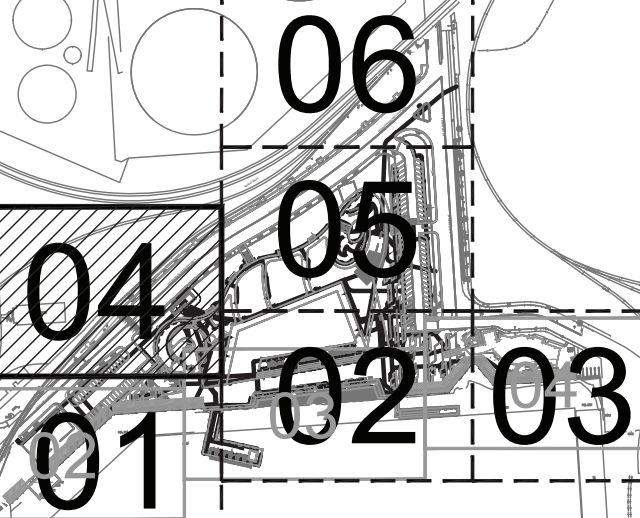
FRIES AVE

POLA ARCHIVE  
BLDG

3' X 5' PULL BOX  
4E-13

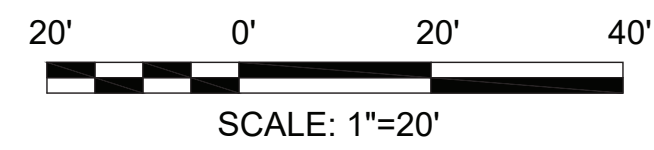
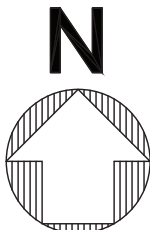
PANEL LP-1,3,17  
471,472

RRL LP2 S4 EV



MATCHLINE - SEE SHEET E-01

1E-04 **ELECTRICAL PLAN - AREA 4**  
E-04 SCALE: 1" = 20'



NO.	DATE	DRAWN	REVISIONS	CHKD	APPD	NO.	DATE	DRAWN	REVISIONS	CHKD	APPD
1	2/17/21	RN	REVISED DWP EQUIPMENT LAYOUT (H9, J10)	TS	OAJ						



**moffatt & nichol**  
4225 E. COMANT ST.  
LONG BEACH, CA 90808  
(P) 562-590-8500 (F) 562-424-7489

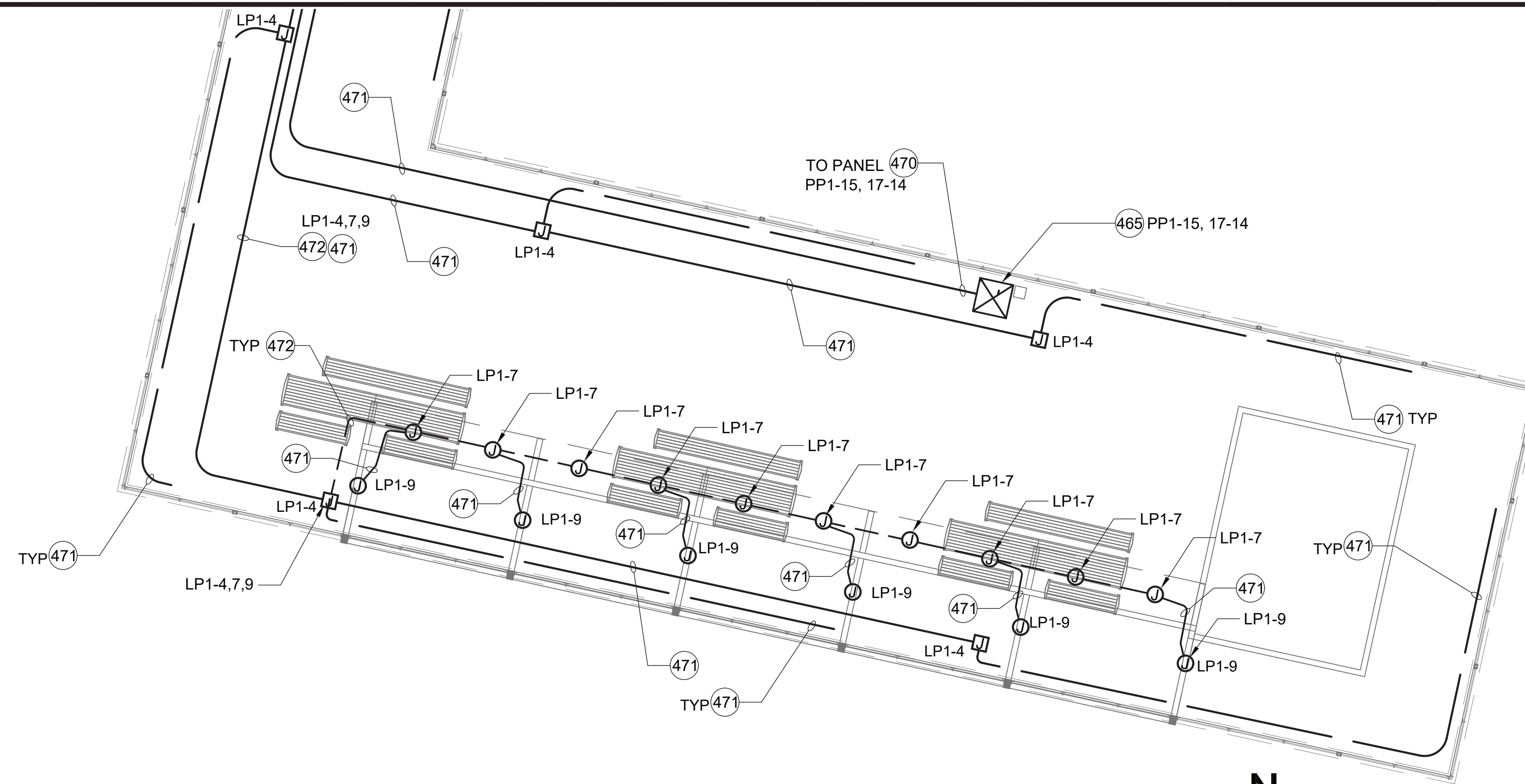
SCALE: AS SHOWN
DRAWN: R. NINOFRANCO
CHECKED: T. SPARKS
DESIGNED: R. NINOFRANCO
ENGINEER / ARCHITECT
T. SPARKS



301 S. AVALON BLVD WILMINGTON, CA  
WILMINGTON WATERFRONT PROMENADE  
**ELECTRICAL PLAN - AREA 4**  
ENGINEERING DIVISION  
425 S. PALMS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER	SHEET NUMBER
1-3192	E-04

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**1E-07 ELECTRICAL PIER PLAN**  
E-00, E-01, E-02 SCALE: 1/8" = 1'-0"

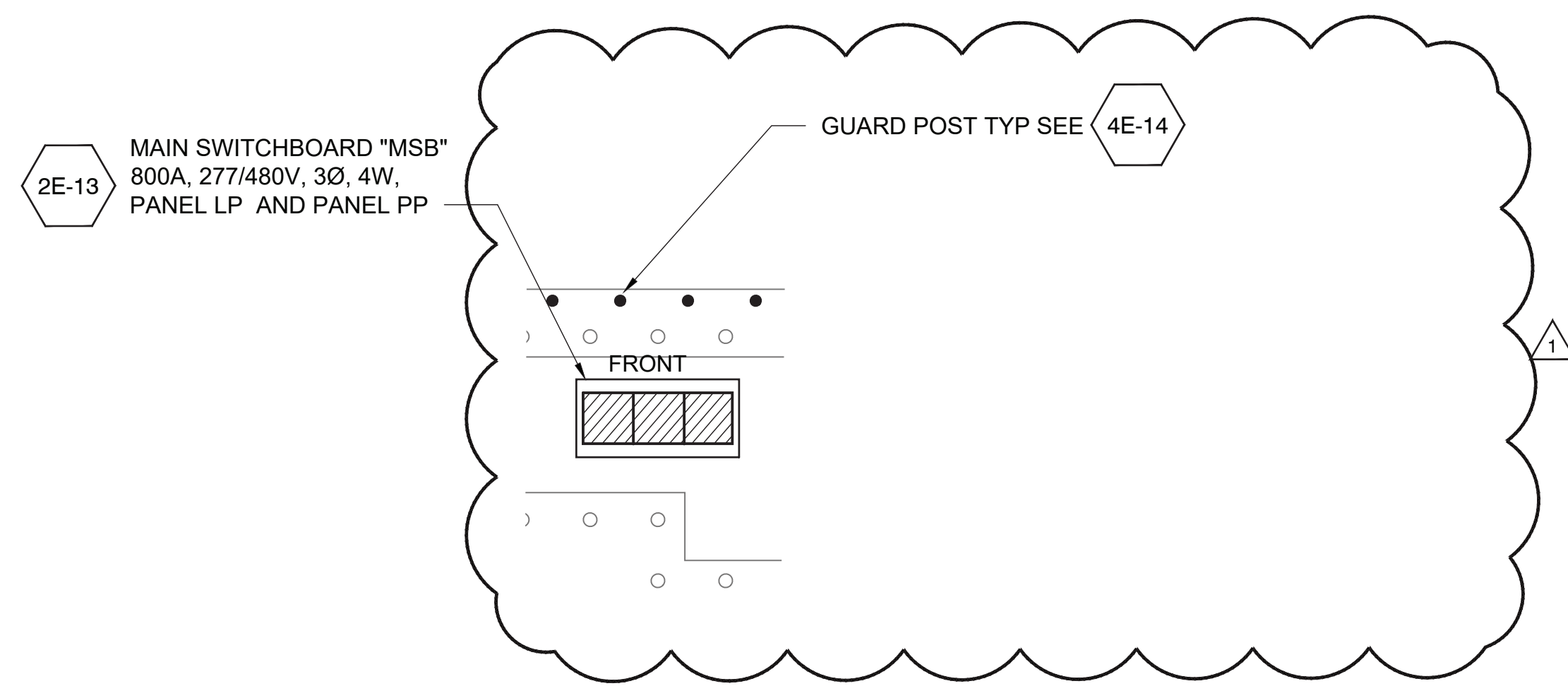
**CONSTRUCTION NOTES**

- CONSTRUCT    □ ○ RELOCATE
- EXISTING    □ ○ REMOVE & RECONSTRUCT
- REMOVE    ○ NOT IN CONTRACT

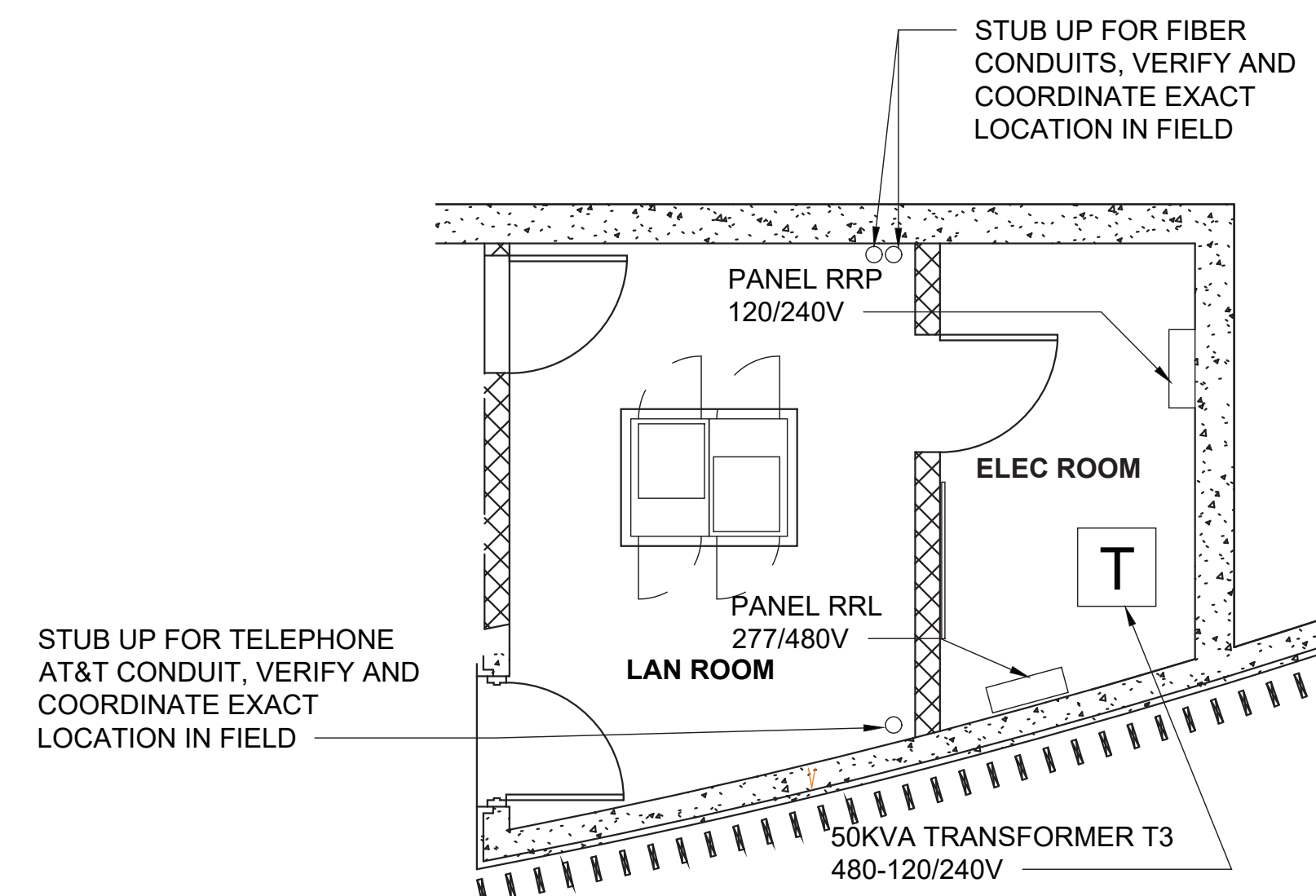
NO.	CONSTRUCTION ITEM
465	POWER PEDESTAL (3E-15)
470	2"C-2#6, 2#10 AND 1#8 GND
471	1"C-2#10 AND 1#10 GND
472	1"C-4#10 AND 1#10 GND

**NOTES:**

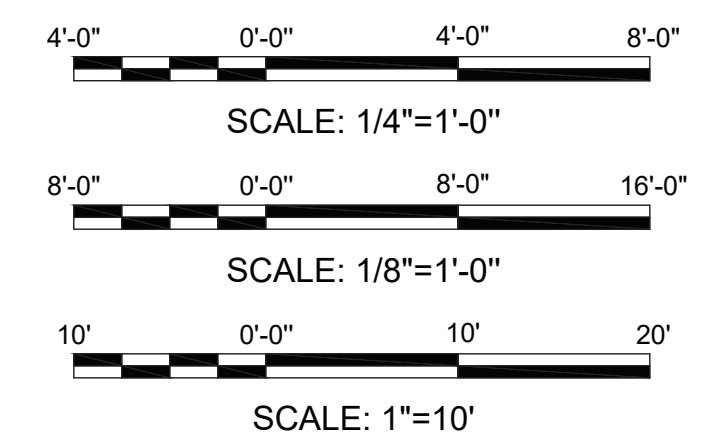
- CONTRACTOR SHALL COORDINATE FINAL CONDUIT LOCATIONS WITH OTHER UTILITIES.
- ALL PIER ELECTRICAL PULL BOX SHALL HAVE ACCESS PER NEC CODE REQUIREMENTS. CONTRACTOR TO COORDINATE WITH PROMENADE PIER FRAMING CONTRACTOR.



**2E-07 ELECTRICAL ENLARGEMENT PLAN**  
E-04 SCALE: 1" = 10'



**3E-07 ELECTRICAL ROOM PLAN**  
E-05 SCALE: 1/4" = 1'-0"



NO.	DATE	DRAWN	REVISIONS -	CHKD	APPD	NO.	DATE	DRAWN	REVISIONS -	CHKD	APPD
1	2/17/21	RN	REVISED DWP EQUIPMENT LAYOUT (C2, E5)	TS	OAJ						

**moffatt & nichol**  
4225 E. COMANT ST.  
LONG BEACH, CA 90808  
(P): 562-590-6500 (F): 562-424-7489

SCALE: AS SHOWN  
DRAWN: R. NINOFRANCO  
CHECKED: T. SPARKS  
DESIGNED: R. NINOFRANCO  
ENGINEER / ARCHITECT  
T. SPARKS

301 S. AVALON BLVD WILMINGTON, CA  
WILMINGTON WATERFRONT PROMENADE

**ELECTRICAL ENLARGEMENT PLAN**

**THE PORT OF LOS ANGELES  
ENGINEERING DIVISION**  
425 S. PALMS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER SHEET NUMBER  
**1-3192 E-07**

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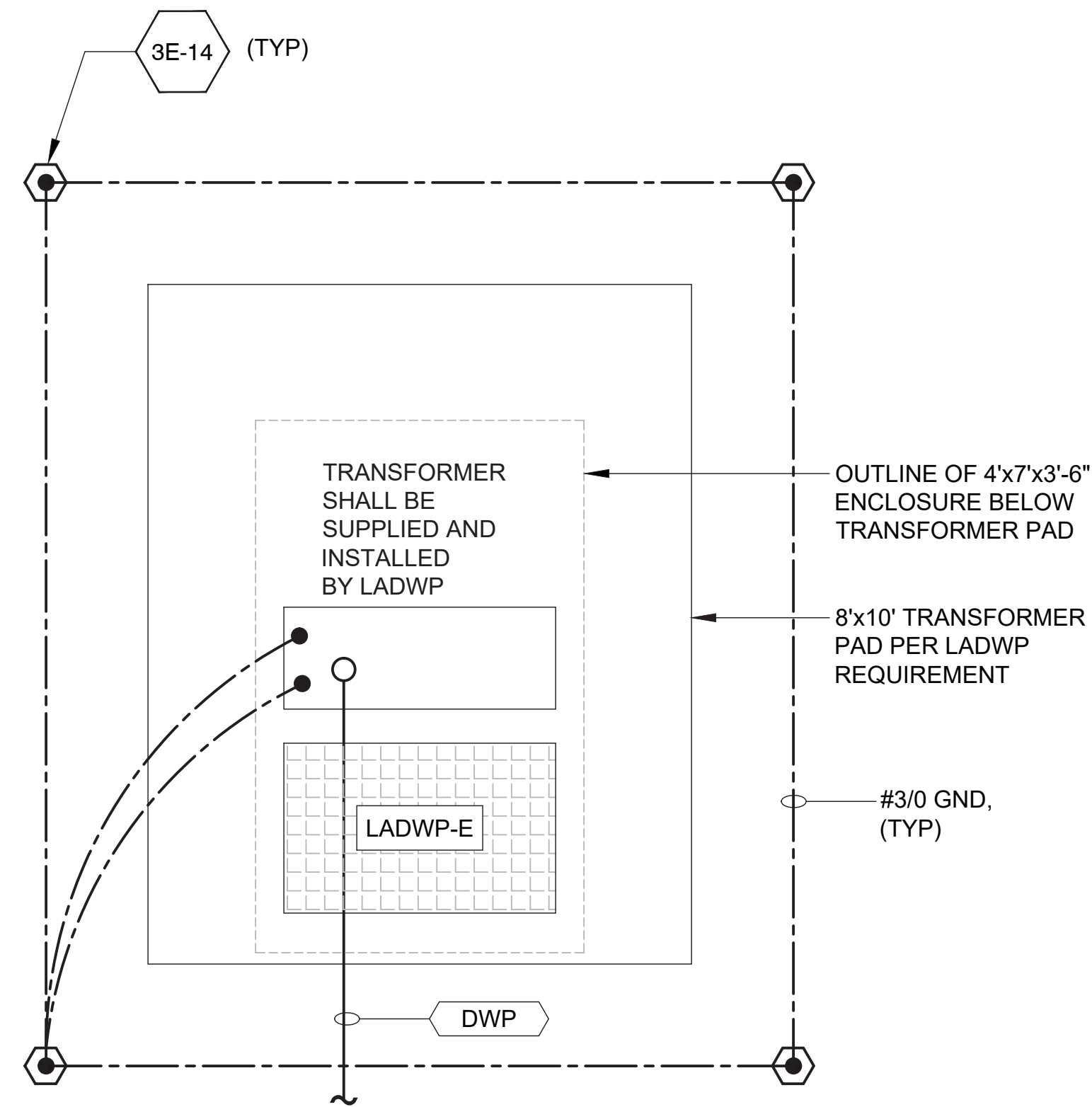
FIXTURE SCHEDULE					
FOR COMPLETE FIXTURE SCHEDULE AND MANUFACTURER MODEL NUMBERS, SEE APPENDIX "N" OF THE SPECIFICATIONS					
TYPE	SYMBOL	DESCRIPTION	LAMP	WATTAGE	VOLTAGE
F1		12' TALL LIGHT POST WITH ADJUSTABLE FLOODLIGHT	LED	51W	277V
F2A		45' TALL POST WITH 7 ADJUSTABLE FLOODLIGHTS	LED	336W	277V
F2B		45' TALL POST WITH 10 ADJUSTABLE FLOODLIGHTS	LED	480W	277V
F2C		45' TALL POST WITH 10 ADJUSTABLE FLOODLIGHTS	LED	480W	277V
F3		15' TALL LIGHT POST WITH 4 ADJUSTABLE FLOODLIGHTS	LED	120W	277V
F3A		15' TALL LIGHT POST WITH 4 ADJUSTABLE FLOODLIGHTS	LED	120W	277V
F3B		15' TALL LIGHT POST WITH 4 ADJUSTABLE FLOODLIGHTS	LED	120W	277V
F3C		15' TALL LIGHT POST WITH 2 ADJUSTABLE FLOODLIGHTS	LED	60W	277V
F4		20' TALL POST MOUNTED PARKING LOT FIXTURE	LED	73W	277V
F5		16' TALL POST WITH 4 ADJUSTABLE GOBO PROJECTORS AND 2 FLOODLIGHTS	LED	136W	277V
F6		ILLUMINATED HANDRAIL	LED	4 W/FT	277V
F7		ON-GRADE LANDSCAPE LIGHT	LED	15W	277V
F8		LINEAR LED LIGHT FIXTURE	LED	3 W/FT	277V
F9		LINEAR FLUSH-MOUNTED LED STEP LIGHT	LED	5 W/FT	277V
F11		FLUSH-MOUNTED IN-GRADE LED MARKER LIGHT	LED	0.3W	277V
F12		BEAM MOUNTED LED DOWNLIGHT	LED	12W	277V
F13		FLOOR MOUNTED LINEAR LED ACCENT UPLIGHT	LED	14 W/FT	277V
F14		GUARDRAIL LIGHTING	LED	3 W/FT	277V
F15		'ANGEL' LIGHT POLE	T5	72W	277V
F16		LANDSCAPE ACCENT LIGHT	LED	8W	277V
F16A		LANDSCAPE ACCENT LIGHT	LED	15W	277V
F17		LINEAR LED LIGHTING INTEGRATED INTO LIGHT RAIL	LED	4 W/FT	277V
F18		CURVABLE LINEAR LED LIGHTING INTEGRATED INTO LIGHT RAIL	LED	3 W/FT	277V
F19		SURFACE MOUNTED INDIRECT UPLIGHT	LED	72W	277V
F20		LINEAR FLUSH-MOUNTED LED SAME AS TYPE F9 EXCEPT 120 VOLTS	LED	5 W/FT	120V

1. LIGHT FIXTURE VOLTAGE, COORDINATE WITH PANELBOARD SERVING FIXTURE CIRCUIT LIGHTING DRIVER AND PULL BOX ENCLOSURE.
2. SEE LANDSCAPE LIGHTING LI SHEETS FOR FIXTURE LOCATIONS.

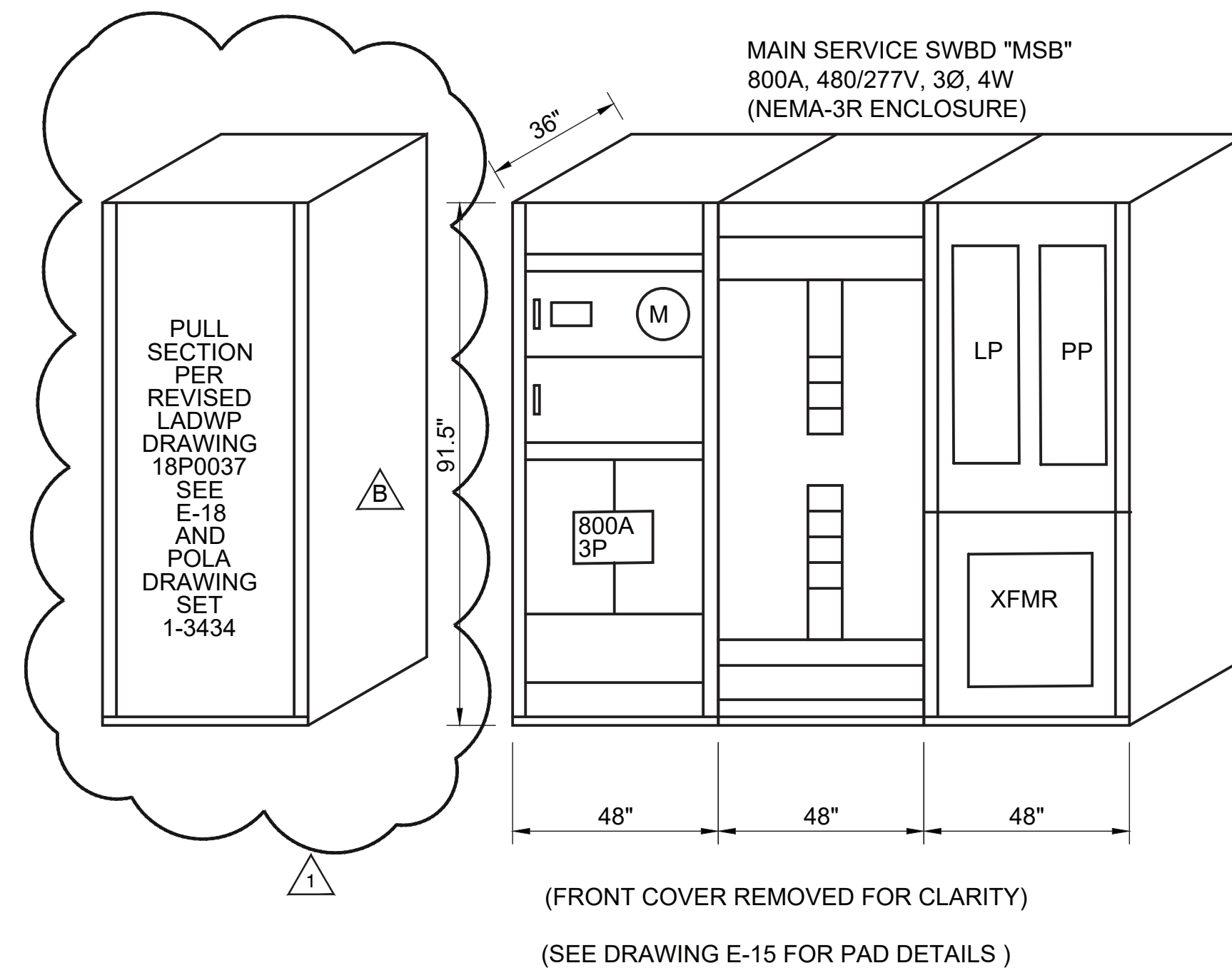
CONDUIT & FEEDER SCHEDULE						
FEEDER NO.	VOLTS	CONDUIT	CONDUCTOR	FROM	TO	NOTES
DWP	---	(2)5"	BY LADWP	DWP POINT OF CONNECTION	TRANSFORMER	-
MSB	277/480	(3)5"	BY LADWP	DWP TRANSFORMER	MAIN SWITCHBOARD MSB	-
LP1	277/480	3"	4#4/0 & 1#4 GND	MAIN SWITCHBOARD MSB	PANEL LP1	-
LP2	277/480	3"	4#4/0 & 1#4 GND	MAIN SWITCHBOARD MSB	PANEL LP2	-
RRL	277/480	3"	4#4/0 & 1#4 GND	MAIN SWITCHBOARD MSB	PANEL RRL	-
T1	480	2"	2#1/0 & 1 # 6 GND	PANEL RRL	TRANSFORMER	-
RRP	120/240	3"	3#300KCMIL & 1#4 GND	TRANSFORMER	PANEL RRP	-
P	120/240	2 1/2"	3#1 & 1#8 GND	PANEL LP2	PANEL P	-
S	SPARE	2"	PULL ROPE	VARIES	VARIES	CONDUIT ONLY
S1	SPARE	1"	PULL ROPE	VARIES	VARIES	CONDUIT ONLY
S2	SPARE	(2)2"	PULL ROPE	VARIES	VARIES	CONDUIT ONLY
S3	SPARE	(3)2"	PULL ROPE	VARIES	VARIES	CONDUIT ONLY
S4	SPARE	(2)4"	PULL ROPE	VARIES	VARIES	CONDUIT ONLY
SC	SECURITY	2"	PULL ROPE	VARIES	VARIES	CONDUIT ONLY
C	COMM	4"	PULL ROPE	VARIES	VARIES	CONDUIT ONLY
F	FIBER	4"	----	VARIES	VARIES	CONDUIT ONLY
FO	POWER LINK	2"	----	VARIES	VARIES	POWERLINK CONTROL
T	TELEP	4"	PULL ROPE	VARIES	VARIES	CONDUIT ONLY
EV	POWER	3"	PULL ROPE	SWITCHBOARD	ELECTRIC VEHICLE CHARGING STATION	

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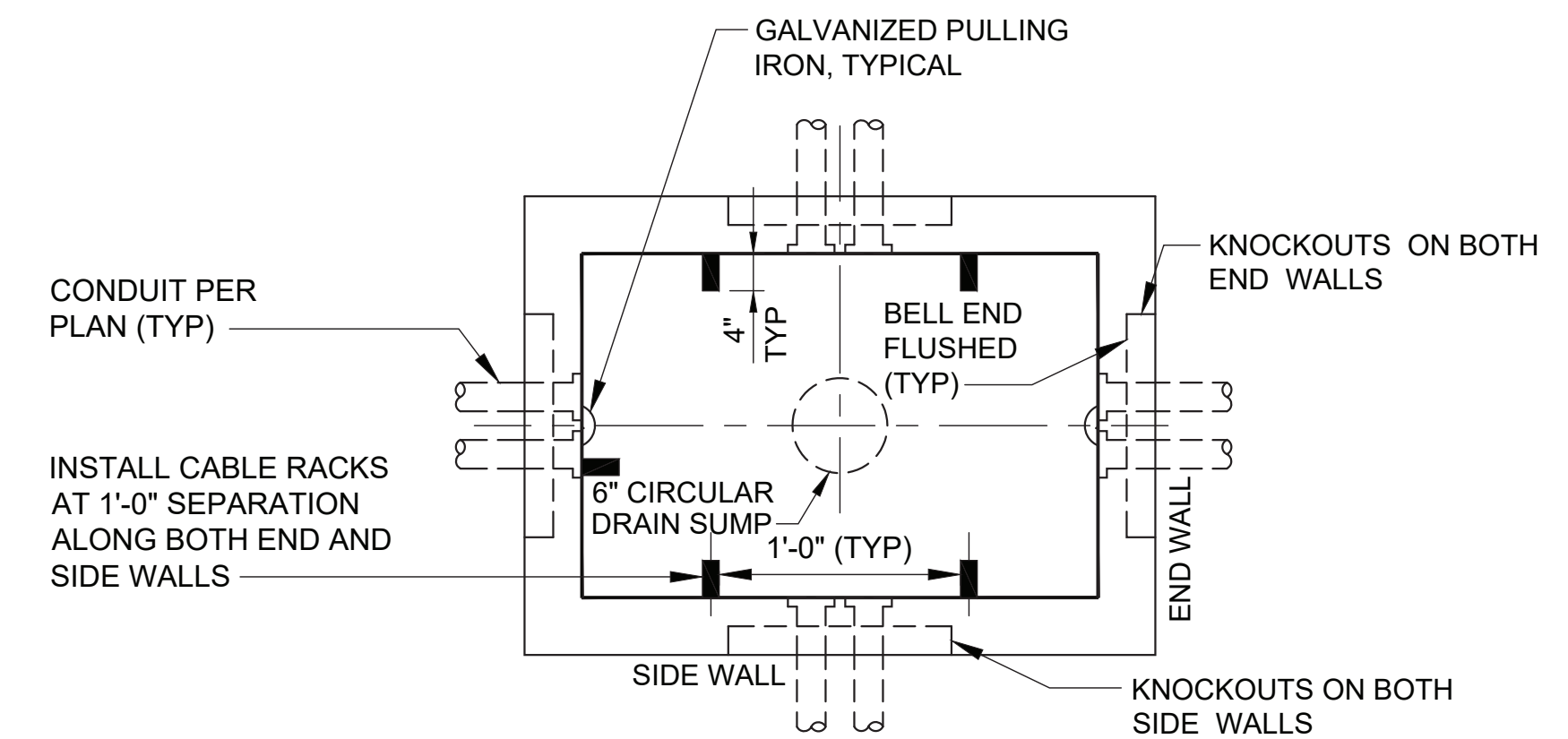
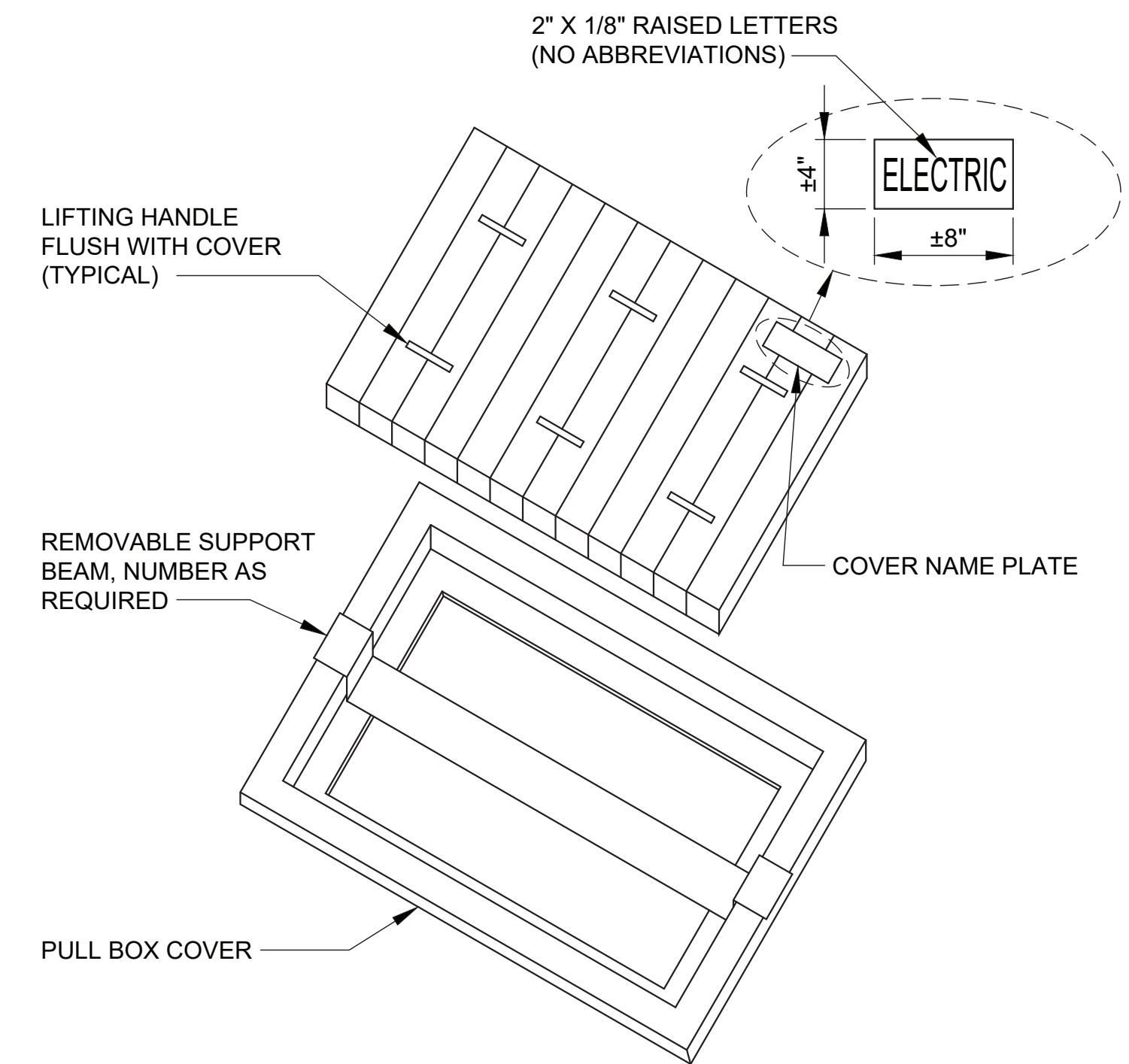
NO. DATE		DRAWN		REVISIONS -		CHKD	APPD	NO. DATE		DRAWN		REVISIONS -		CHKD	APPD	SCALE: AS SHOWN		301 S. AVALON BLVD WILMINGTON, CA	
2/17/21		RN		REVISED DWP EQUIPMENT LAYOUT (I8, J10)		TS	OAJ									DRAWN: R. NINOFRANCO		WILMINGTON WATERFRONT PROMENADE	
																CHECKED: T. SPARKS		FEEDER AND FIXTURE SCHEDULES	
																DESIGNED: R. NINOFRANCO		DRAWING NUMBER	
																ENGINEER / ARCHITECT		SHEET NUMBER	
																T. SPARKS		1-3192 E-11	
																4225 E. CONANT ST. LONG BEACH, CA 90808 (P): 562-590-6500 (F): 562-424-7489		425 S. PALMS VERDES STREET SAN PEDRO CA 90731-3309	



1E-13 LADWP TRANSFORMER LAYOUT  
E-13 SCALE: NTS



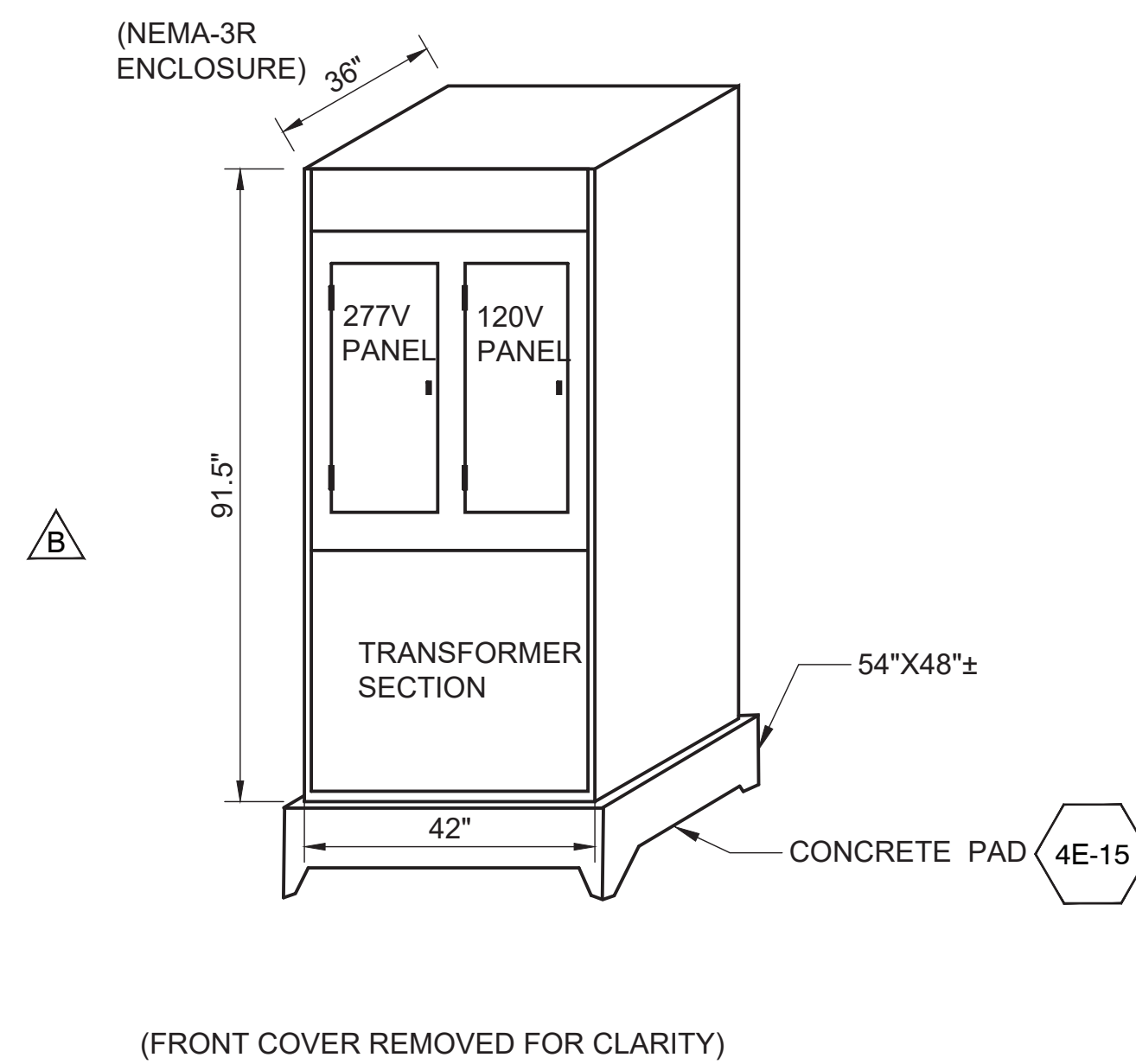
2E-13 MAIN SWBD. MSB - ELEVATION  
E-13 SCALE: NTS



NOTE:

1. U/G CONCRETE BOXES SHALL COMPLY WITH ELECTRICAL CODE.
2. ALL WIRING SPLICING SHALL BE WATER PROOF SPLICING.
3. ALL CONDUIT SHALL BE POSITIONED IN COMPLIANCE WITH CODE REQUIREMENTS.
4. SECURITY PULLBOXES SHALL HAVE BOLT-DOWN COVERS.

4E-13 3' X 5' PRE-CAST CONCRETE PULLBOX  
E-04, E-05, E-06 SCALE: NTS



3E-13 TYPICAL INTEGRATED POWER CENTER  
E-13 SCALE: NTS

NO.	DATE	DRAWN	REVISIONS -	CHKD	APPD	NO.	DATE	DRAWN	REVISIONS -	CHKD	APPD
1	4/07/20	KS	CONCRETE PAD REVISIONS (C2-A5)(G6-F8)	TS	OAJ						
2	2/17/21	RN	REVISED DWP EQUIPMENT LAYOUT (F5, I6)	TS	OAJ						



**moffatt & nichol**  
4225 E. COMANT ST.  
LONG BEACH, CA 90808  
(P): 562-590-6500 (F): 562-424-7489

SCALE: AS SHOWN  
DRAWN: R. NINOFRANCO  
CHECKED: T. SPARKS  
DESIGNED: R. NINOFRANCO  
ENGINEER / ARCHITECT  
T. SPARKS

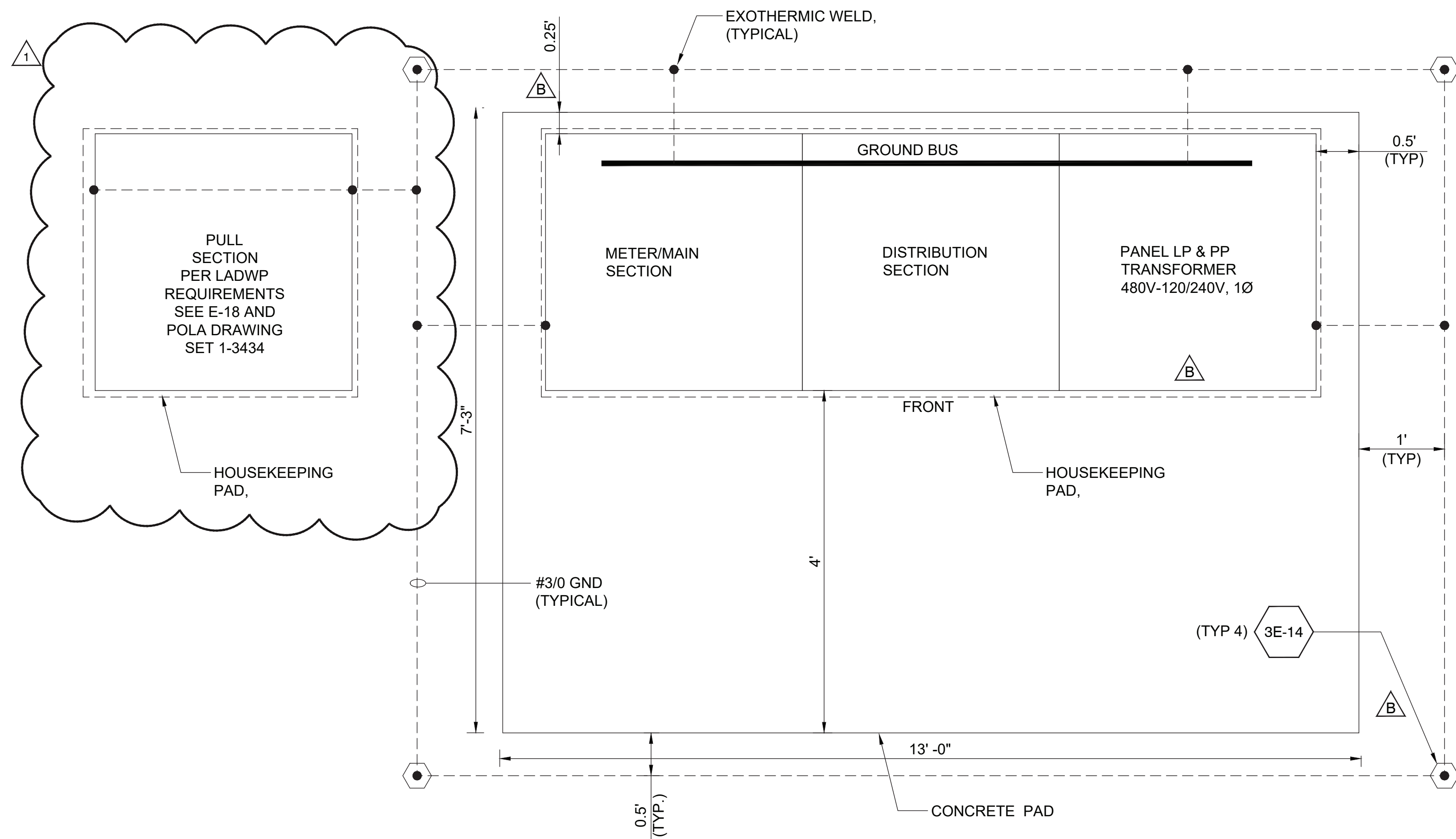
WILMINGTON WATERFRONT PROMENADE

**ELECTRICAL DETAILS**

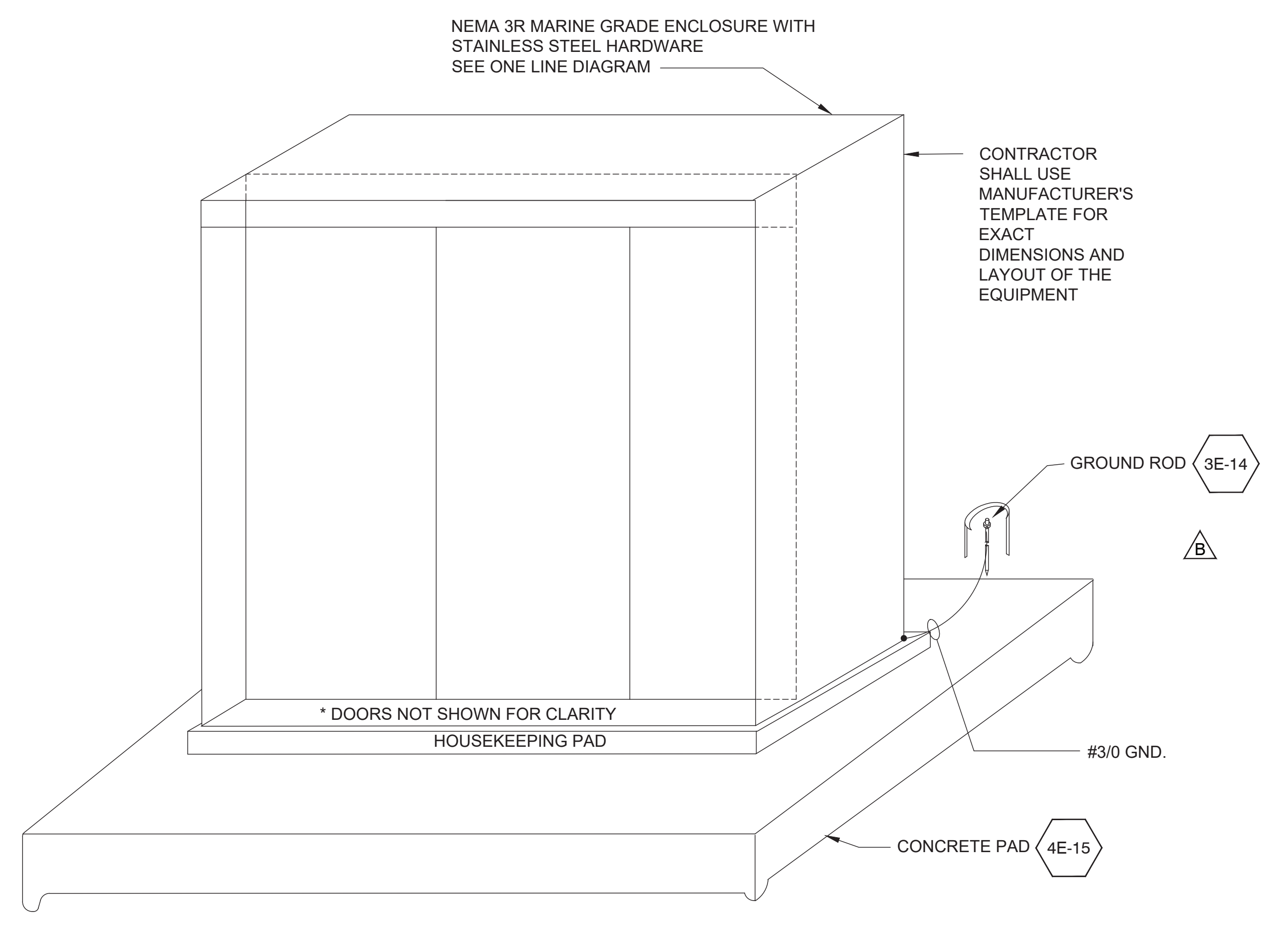
THE PORT OF LOS ANGELES  
**ENGINEERING DIVISION**  
425 S. PALMS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER: 1-3192  
SHEET NUMBER: E-13

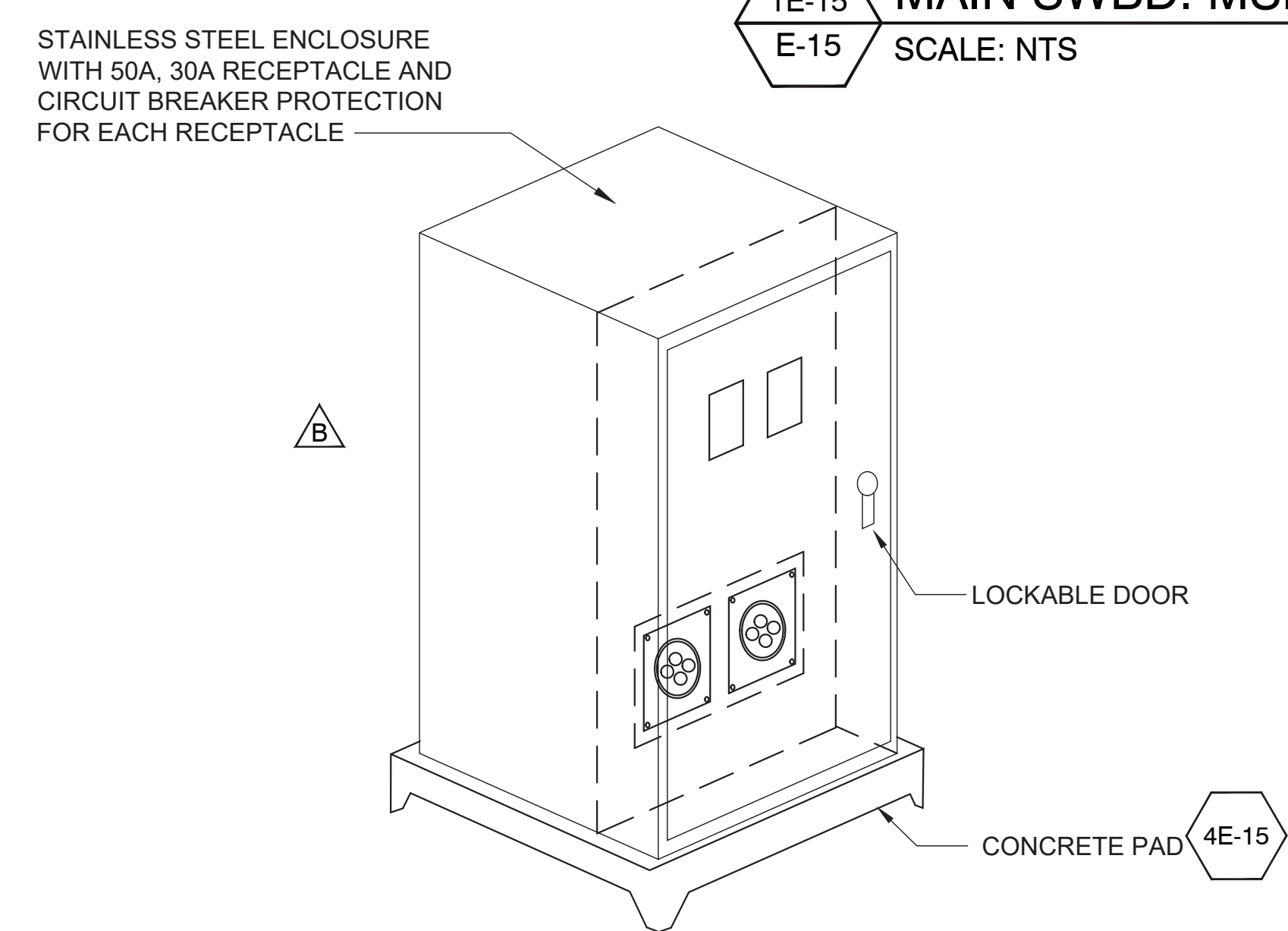
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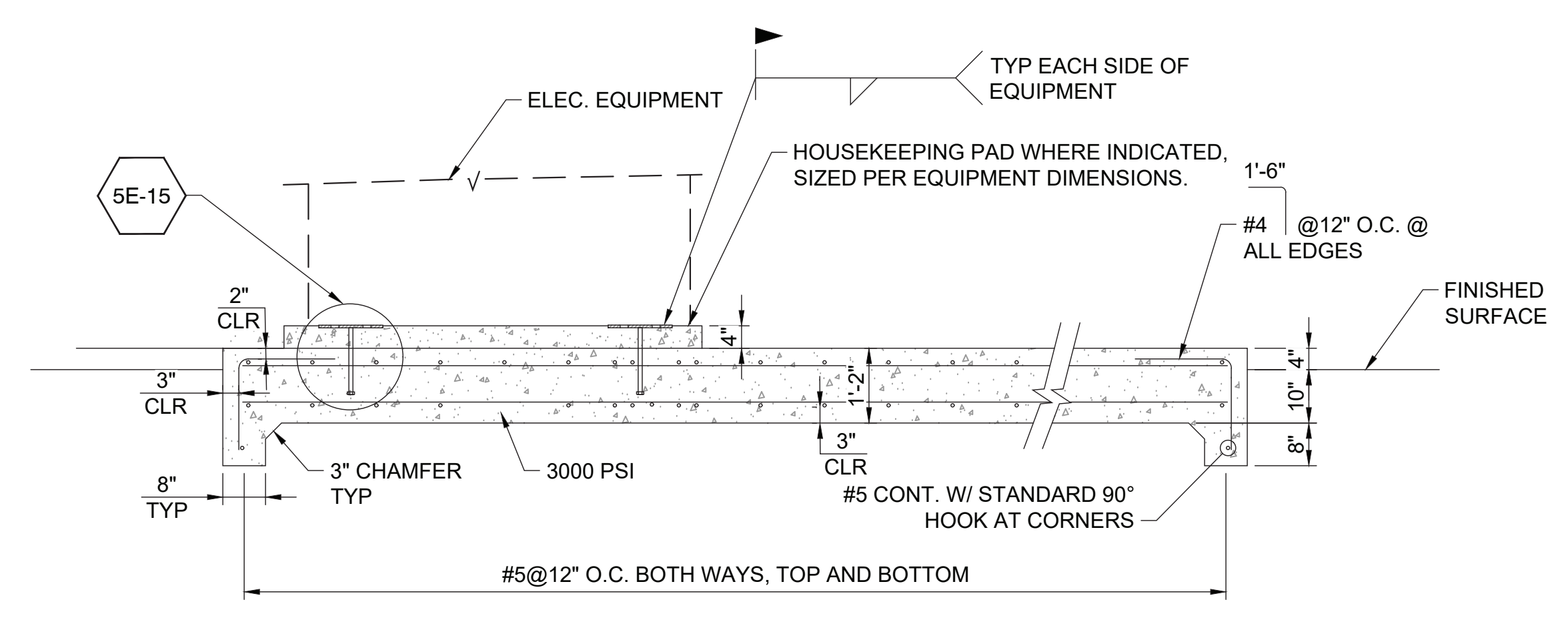
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E-15 SCALE: NTS



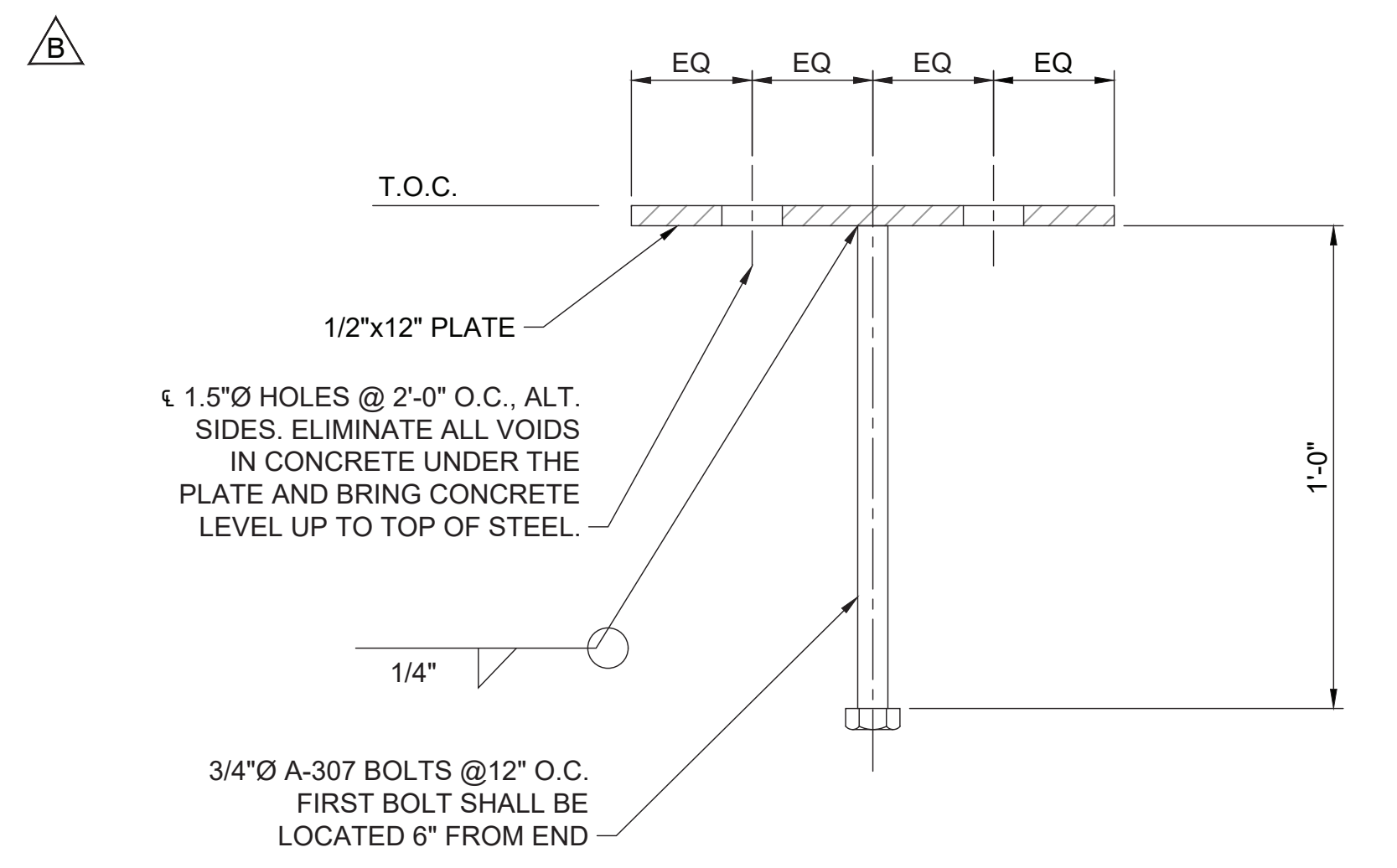
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E-15 SCALE: NTS



**3E-15 POWER PEDESTAL FOR SPECIAL EVENT**  
E-01, E-02, E-05, E-07, E-09 SCALE: NTS



**4E-15 TYPICAL CONCRETE PAD**  
E-13, E-15 SCALE: NTS



**5E-15 TYPICAL ANCHORAGE PLATE DETAIL**  
E-15 SCALE: NTS

NO.	DATE	DRAWN	REVISIONS -	CHKD	APPD	NO.	DATE	DRAWN	REVISIONS -	CHKD	APPD
1	4/07/20	KS	CONCRETE PAD REVISIONS (J2-F7)(G8-E13)(C2-A4)(D5-A10)	TS	OAJ						
2	2/17/21	RN	REVISED DWP EQUIPMENT LAYOUT (G1, J3)	TS	OAJ						



**moffatt & nichol**  
4225 E. COMANT ST.  
LONG BEACH, CA 90808  
(P): 562-590-6500 (F): 562-424-7489

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DRAWN: R. NINOFRANCO  
CHECKED: T. SPARKS  
DESIGNED: R. NINOFRANCO  
ENGINEER / ARCHITECT  
T. SPARKS



**THE PORT OF LOS ANGELES  
ENGINEERING DIVISION**  
425 S. PALMS VERDES STREET SAN PEDRO CA 90731-3309

WILMINGTON WATERFRONT PROMENADE

**ELECTRICAL DETAILS**

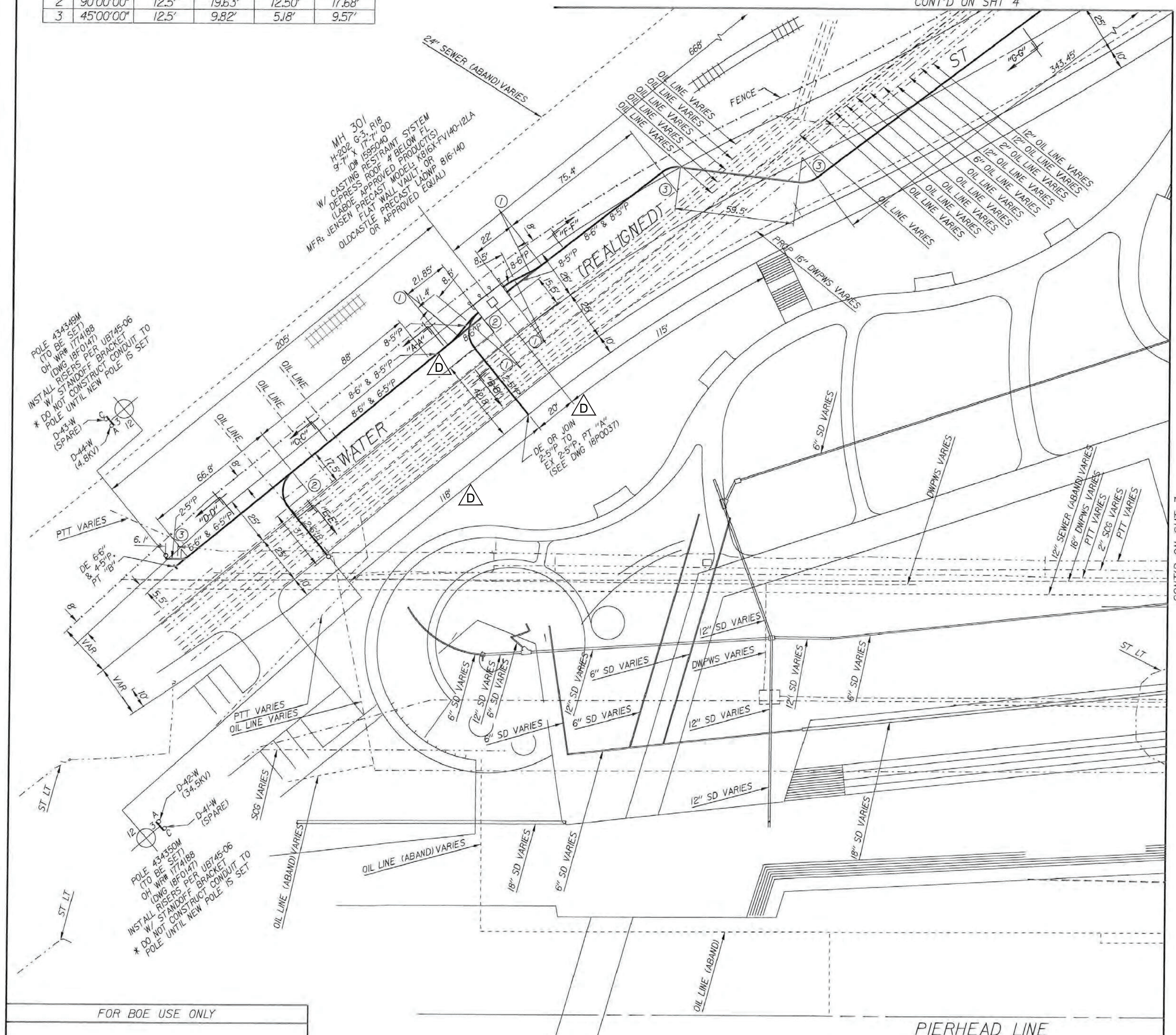
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**1-3192 E-15**

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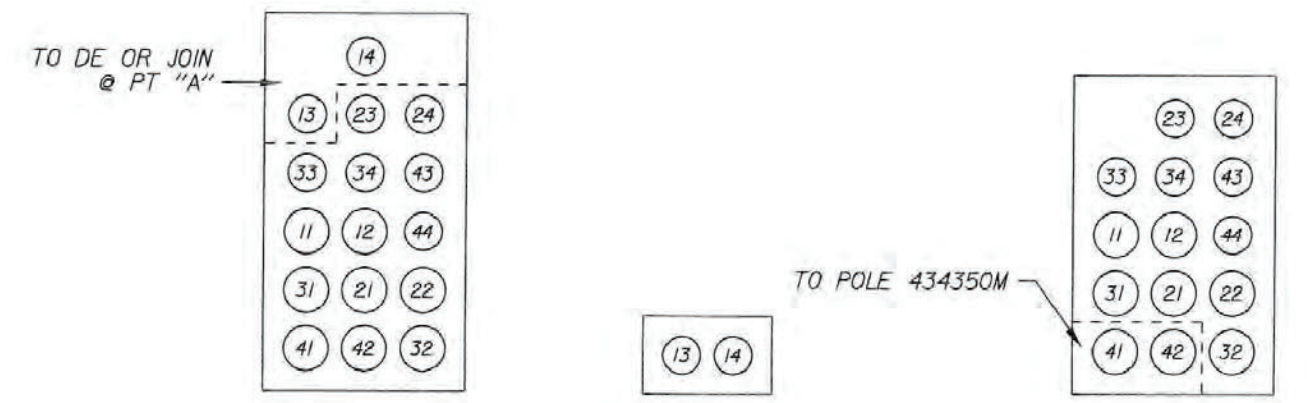


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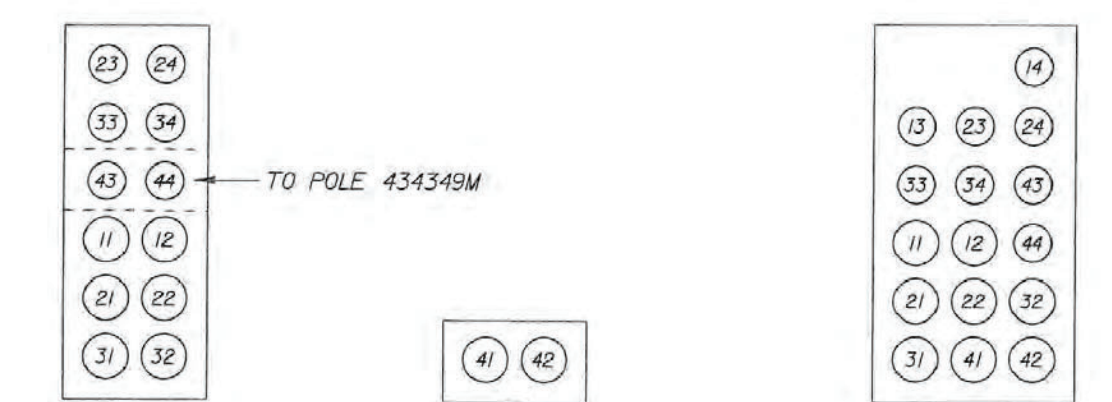


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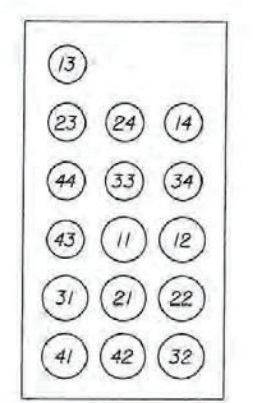
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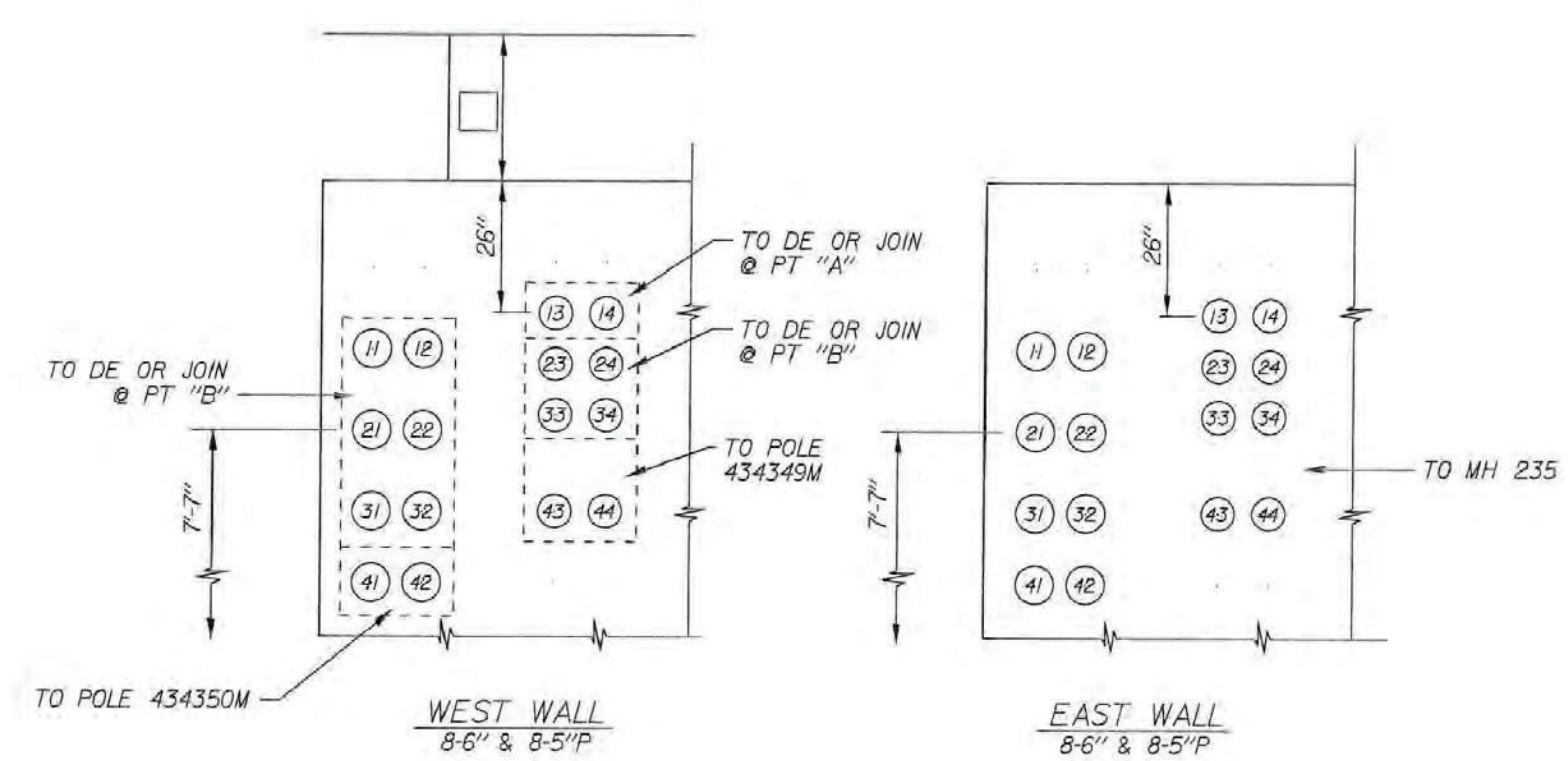
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SECTION "B-B" 2-5" P  
SECTION "C-C" 8-6" & 8-5" P



SECTION "D-D" 8-6" & 8-5" P  
SECTION "E-E" 2-5" P  
SECTION "F-F" 8-6" & 8-5" P



SECTION "G-G" 8-6" & 8-5" P



**METHANE ZONE**  
SOIL GAS - VAPOR BARRIER IS REQUIRED  
PER STD DWG H-242  
FOR ALL NEW VAULTS AND  
MAINTENANCE HOLES.

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REV NO	REV DATE	DFTG INTEL	REVISION DESCRIPTION	ENR INTEL	APPRV	PRELIM	DRAWING	CIRCULATION	FINAL	SERVICE CENTER W	SERVICE CENTER W	NR #	CONST #	PROJECT #	NON-CONST #
1	3-30-20		RELOCATED DE @ PT "A"			ENGR	TS	ENGR	SI	5					
						DWI	WOD	6	SLE						
						DDFT	WOD	48	TS						
						DSP		DDFT	48						
						SI		DSP							
						SLE		LSMS	2						

DESIGN	D. PALMER	CHECKER	MWH
ORIGINAL SIGNED BY	JUAN AVALOS	DATE	10-21-19
OR APPROVED	CHUCK DUNN		

CITY OF LOS ANGELES	DEPARTMENT OF WATER AND POWER	POWER SYSTEM ENGINEERING
34.5KV & 4.8KV CONDUIT REQ	301 S. AVALON BL	VIC S. AVALON BL & WATER ST
18H5031	SHEET 2 OF 4	

301 S. AVALON BLVD WILMINGTON, CA

WILMINGTON WATERFRONT PROMENADE

**34.5KV AND 4.8KV CONDUIT REQ - 2**

THE PORT OF LOS ANGELES  
**ENGINEERING DIVISION**  
425 S. PALMS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER SHEET NUMBER  
**1-3192 E-20**

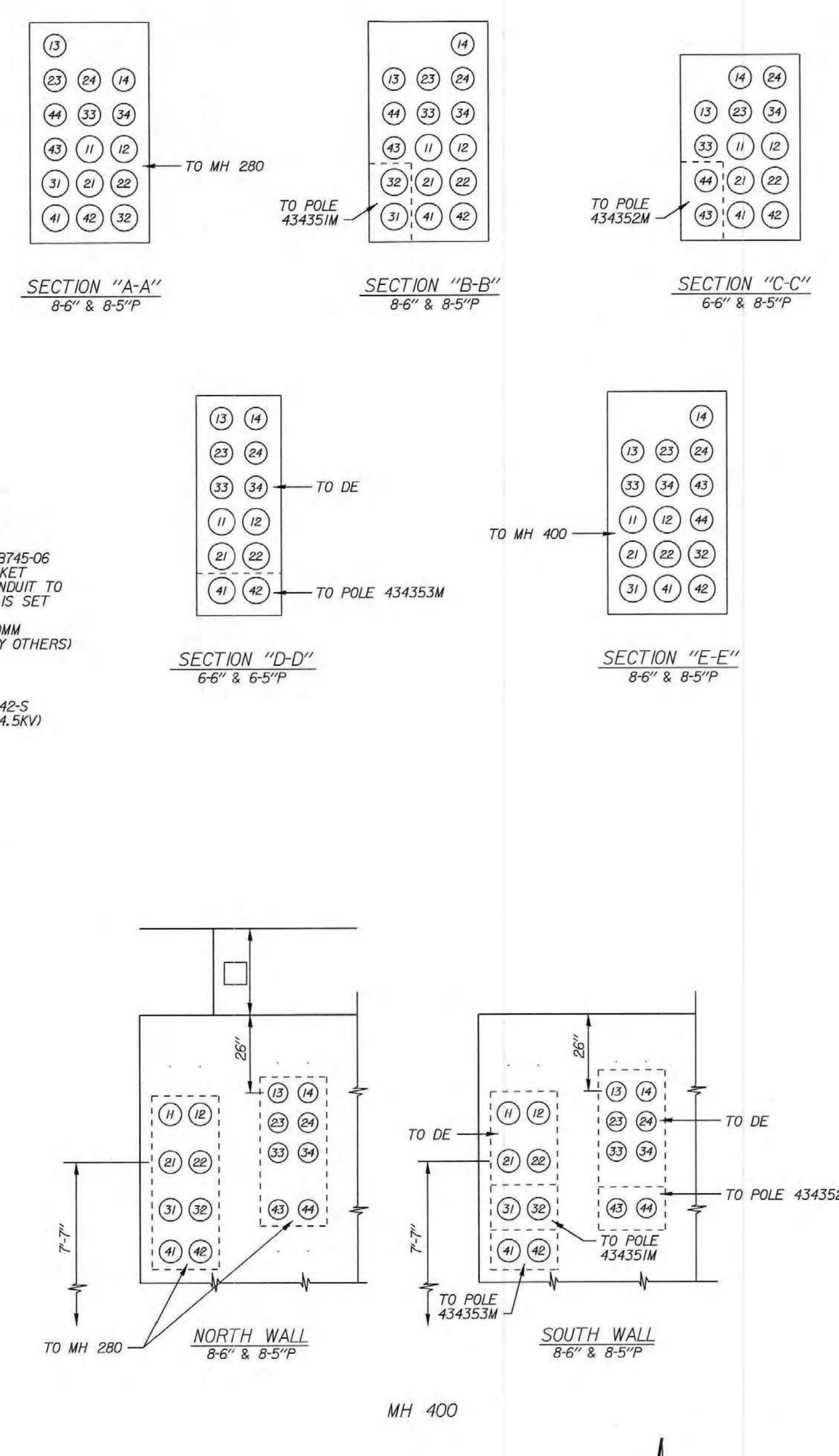
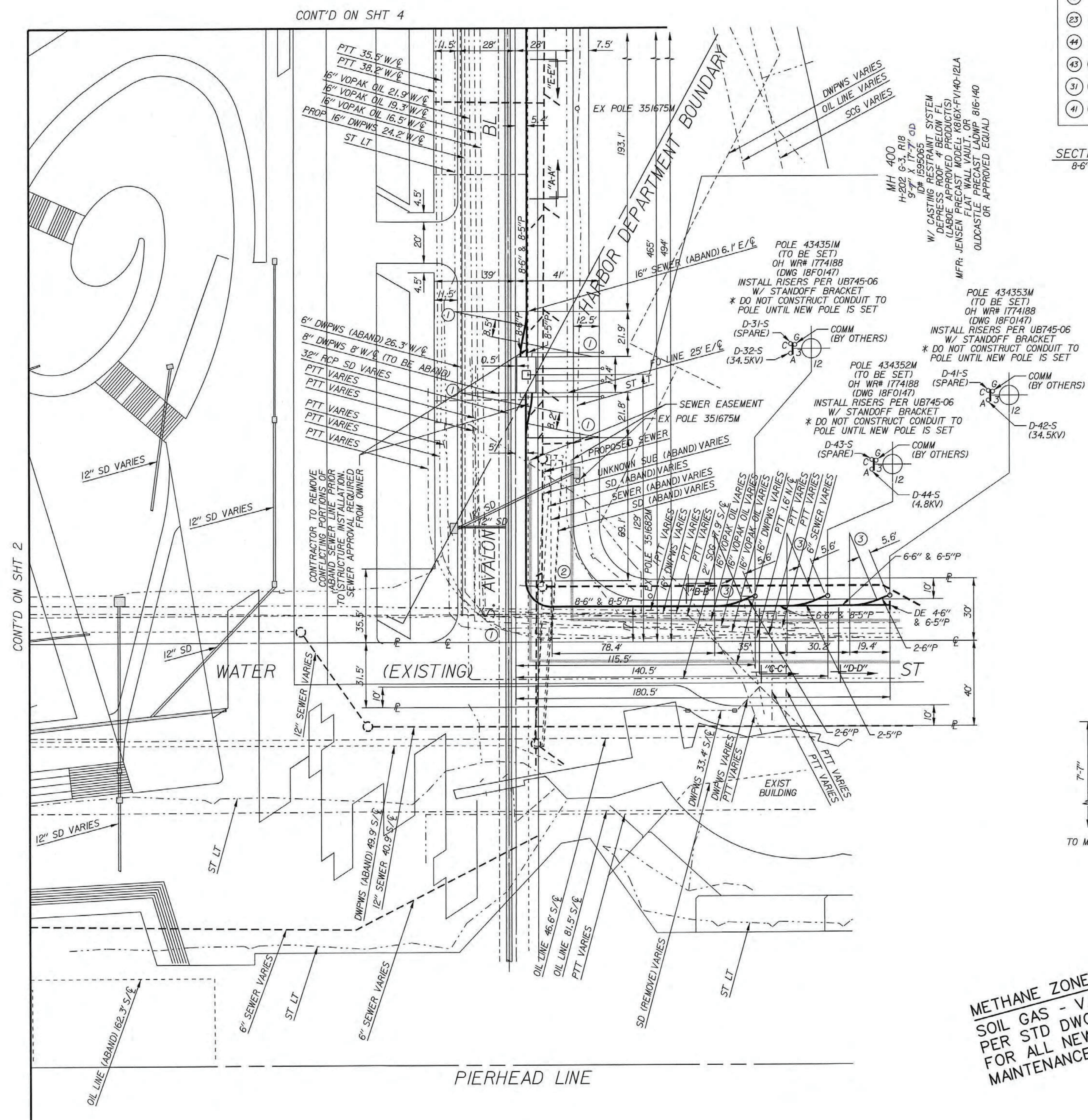
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2	2/17/21	JS	ADDED SIGNED DWP DRAWING (A1, J14)	TS	OAJ						

**moffatt & nichol**  
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LONG BEACH, CA 90808  
(P) 562-590-6500 (F) 562-424-7489

SCALE: AS SHOWN  
DRAWN: R. NINOFRANCO  
CHECKED: T. SPARKS  
DESIGNED: R. NINOFRANCO  
ENGINEER / ARCHITECT  
T. SPARKS

DWG: Q:\LIB\47\cadd\Avalon\_POLA\_WWP\1-3192 E-20.dwg USER: lsantana DATE: Mar 01, 2021, 10:15am XREFS: 1-3192 SUBMITTAL STAMP IMAGES: 18H5031\_SHT2

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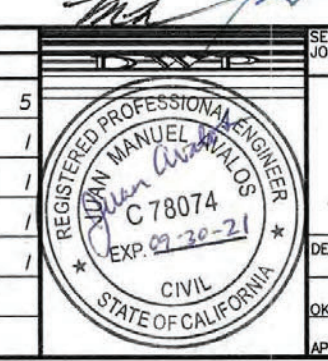


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 FOR ALL NEW VAULTS AND  
 MAINTENANCE HOLES.



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DSP	1			DSP	1	48	1
SI	1			DSP	1		
SLE	1			LSMS	2		



CITY OF LOS ANGELES DEPARTMENT OF WATER AND POWER POWER SYSTEM ENGINEERING	34.5KV & 4.8KV CONDUIT REQ 301 S. AVALON BL VIC S. AVALON BL & WATER ST
DESIGN: D. PALMER CHECKER: MWH DATE: 10/21/19	18H5031 SHEET 3 OF 4

NO.	DATE	DRAWN	REVISIONS	CHKD	APPD
1	2/17/21	JS	ADDED SIGNED DWP DRAWING (A1, J14)	TS	OAJ

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9					

SCALE: AS SHOWN

DRAWN: R. NINOFRANCO  
 CHECKED: T. SPARKS  
 DESIGNED: R. NINOFRANCO  
 ENGINEER / ARCHITECT  
 T. SPARKS

**moffatt & nichol**  
 4225 E. COMANT ST.  
 LONG BEACH, CA 90808  
 (P): 562-590-6500 (F): 562-424-7489

301 S. AVALON BLVD WILMINGTON, CA

WILMINGTON WATERFRONT PROMENADE

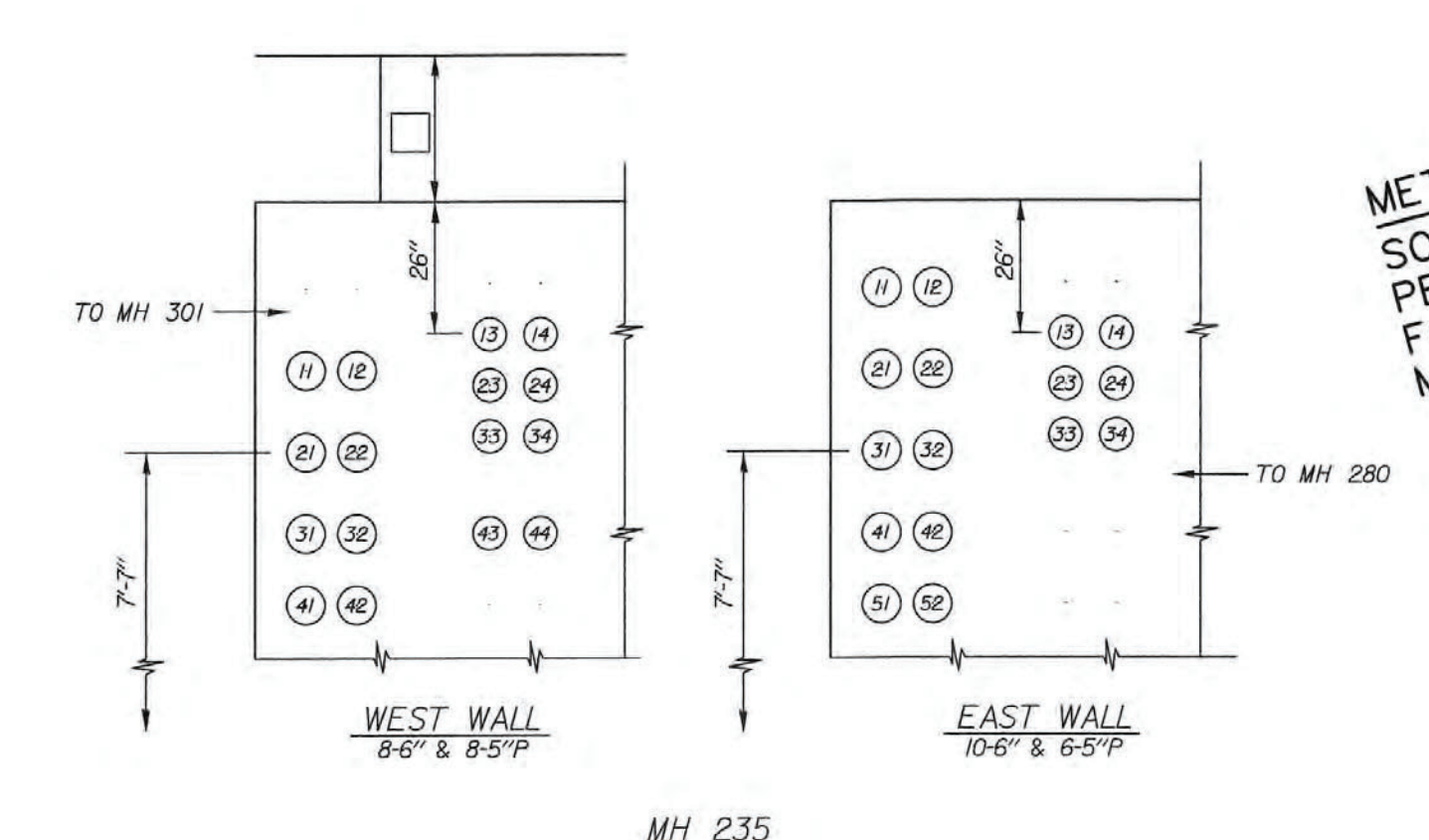
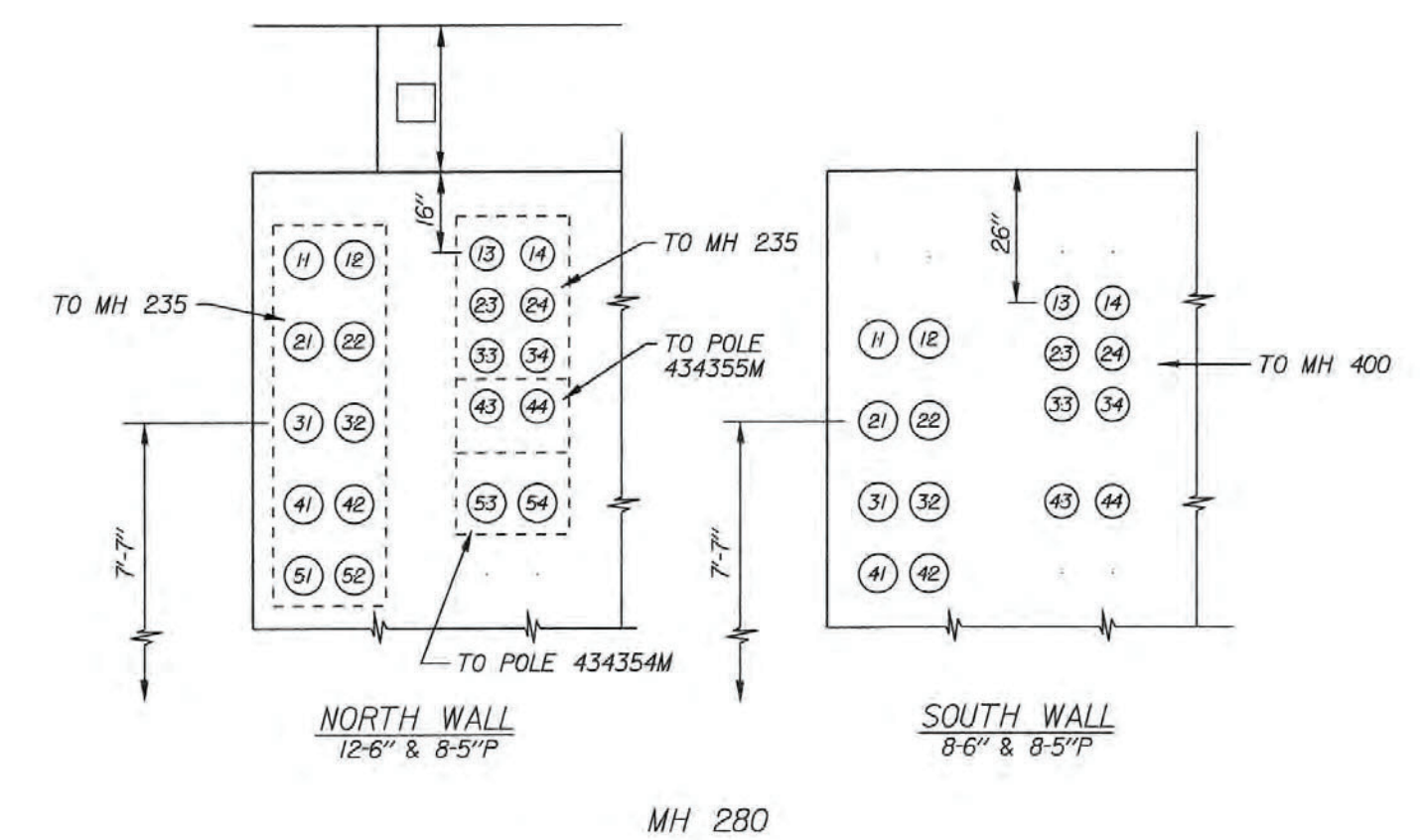
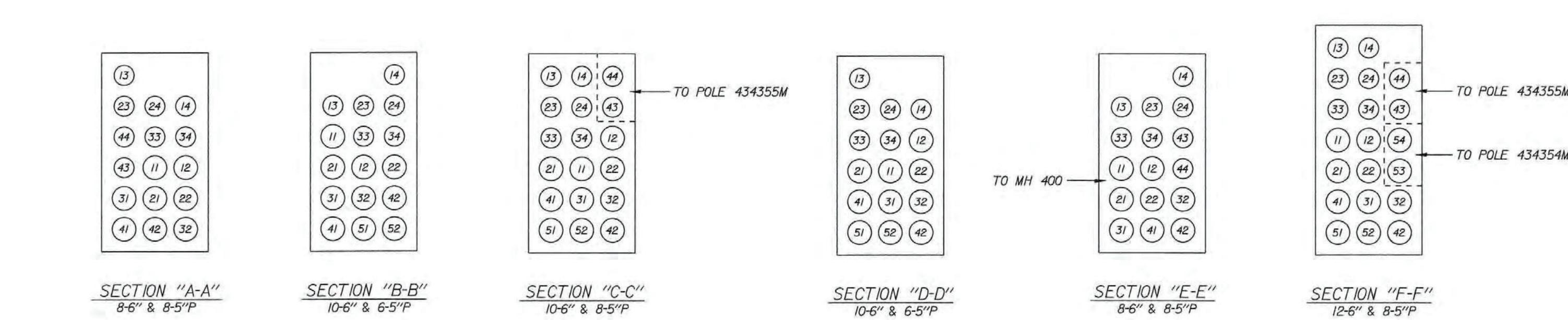
**34.5KV AND 4.8KV CONDUIT REQ - 3**

THE PORT OF LOS ANGELES  
**ENGINEERING DIVISION**  
 425 S. PALMS VERDES STREET SAN PEDRO CA 90731-3309

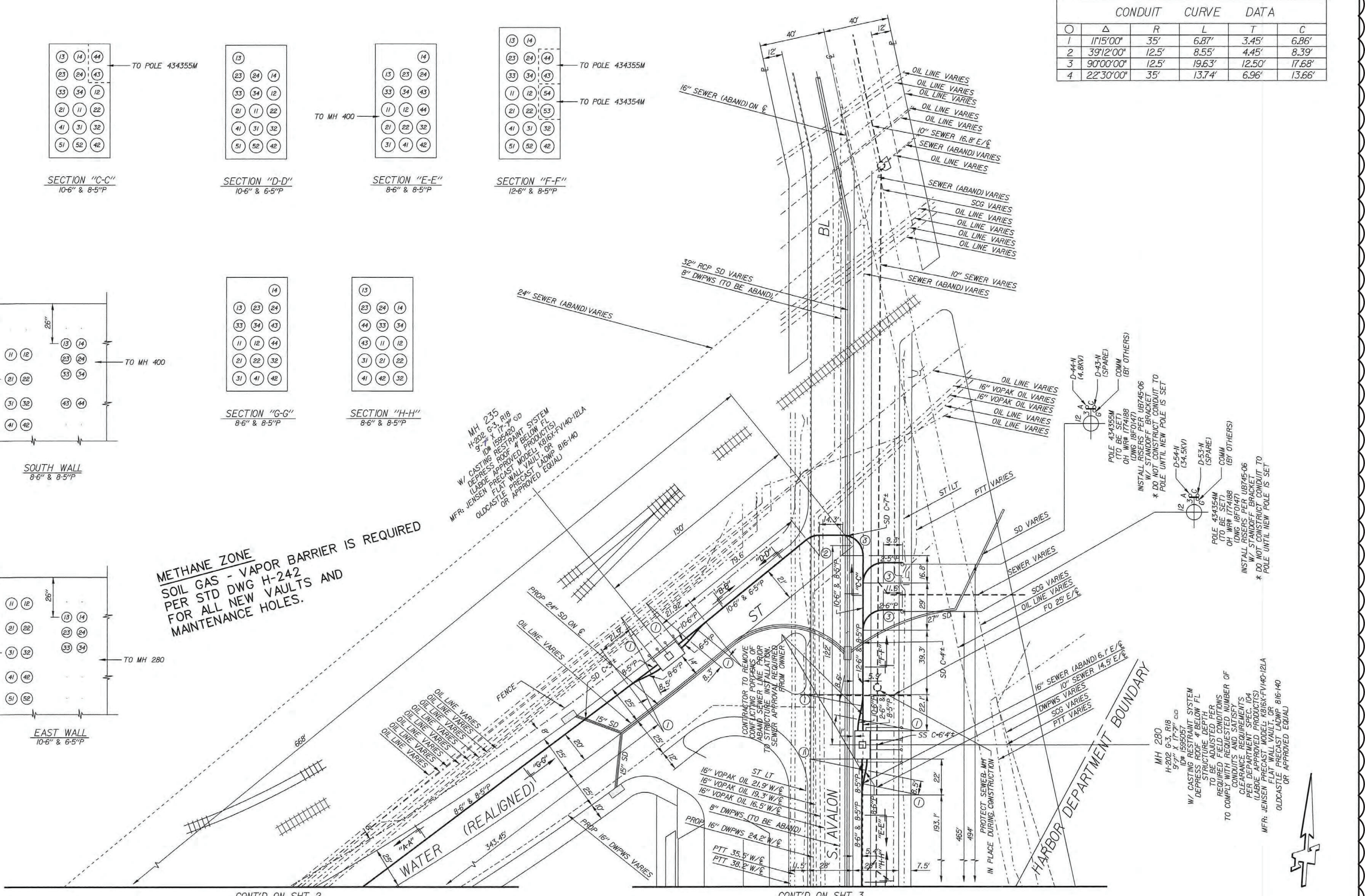
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3	90°00'00"	12.5'	19.63'	12.50'	17.68'
4	22°30'00"	35'	13.74'	6.96'	13.66'



**METHANE ZONE**  
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PER STD DWG H-242  
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**CITY OF LOS ANGELES**  
 DEPARTMENT OF  
 WATER AND POWER  
 POWER SYSTEM ENGINEERING

34.5KV & 4.8KV CONDUIT REQ  
 301 S. AVALON BL  
 VIC S. AVALON BL & WATER ST

PROJECT # P273114  
 SHEET 4 OF 4

NO.	DATE	DRAWN	REVISIONS	CHKD	APPD	NO.	DATE	DRAWN	REVISIONS	CHKD	APPD	SCALE: AS SHOWN DRAWN: R. NINOFRANCO CHECKED: T. SPARKS DESIGNED: R. NINOFRANCO ENGINEER / ARCHITECT T. SPARKS		WILMINGTON WATERFRONT PROMENADE <b>34.5KV AND 4.8KV CONDUIT REQ - 4</b> THE PORT OF LOS ANGELES <b>ENGINEERING DIVISION</b> 425 S. PALMS VERDES STREET SAN PEDRO CA 90731-3309	DRAWING NUMBER	SHEET NUMBER
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 DATE: Mar 01, 2021 10:15am XREFS: 1-3192 SUBMITTAL STAMP IMAGES: 18H5031\_Pdf4

- b. Corrosive materials with pH of 2 or less (muriatic and other acids),
  - c. Corrosive materials with pH of 12.5 or more (soda lye and lime),
  - d. Ignitable materials (gasoline and diesel fuel, propane, and solvents),
  - e. Reactive materials (chlorine), or
  - f. Any other material for which a Safety Data Sheet (SDS) has been prepared.
2. Handle hazardous substances in conformance with applicable federal, state, and local regulations.
  3. Make current and accurate copies of the SDS available at the job site for each hazardous substance to be used at the jobsite.
    - a. Train employees that handle hazardous substances and hazardous wastes in procedures for handling such materials. Refer also to Hazardous Waste Article of this Section.
  4. Store hazardous substances in conformance with the California Health and Safety Code and City of Los Angeles Fire Code requirements.
    - a. Comply with California Health and Safety Code, Division 20, Chapter 6.95, Section 25500. Contractor shall file a Hazardous Materials Business Plan through the California Environmental Reporting System (CERS) as implemented by the City of Los Angeles Fire Department and associated Certified Unified Program Agency (CUPA) at ~~<http://www.fire.lacounty.gov/wp-content/uploads/2014/03/lacofd-CERS-User-Guide-Part3.pdf>~~ <http://fire.lacounty.gov/wp-content/uploads/2019/08/lacofd-CERS-User-Guide-Part3.pdf> if on-site storage of hazardous substances exceeds the following quantities:
      - 1) Liquids: 55 gallons
      - 2) Gas: 200 cubic feet
      - 3) Solids: 55 pounds
    - b. On-site storage refers to the uninterrupted presence of hazardous substances at the site for 30 Calendar Days or more, including refills or replacement of stock.
  5. Protect hazardous substance storage containers from wind and rain. Place secondary containment beneath containers or equipment to capture drips and spills.

**Delta No. A**

7. The date, place, time of facility inspections, sampling, visual observation (inspections), and measurements including precipitation (rain gage).
  8. The visual observations and sample collection exception records and reports specified in Appendix "D" of the Specifications (Attachment D of the General Permit).
  9. Training information consisting of:
    - a. Documentation of training for individuals responsible for activities associated with compliance with the Construction General Permit.
    - b. Documentation of training for individuals responsible for BMP installation, inspection, maintenance, and repair.
    - c. Documentation of training for individuals responsible for overseeing, revising, and amending the SWPPP.
  10. Photographs of BMPs before, during, and after storm events.
  11. Chain of custody forms.
  12. Contractor shall notify and provide information required by the Engineer to submit the Notice of Termination (NOT) upon completion of construction and land disturbing activities.
- K. Conduct routine site inspections to ensure that Best Management Practices (BMPs) are adequate to prevent any debris, particulates, or fluids from leaving the laydown area and/or entering Port waters.
- L. Storage of soil and construction debris shall be elevated and stored under roof or covering, if roof and coverings are not feasible, for temporary storage, cover with tarps or plastic sheeting, secured with weights or ropes.
- M. Use sand bags or wattles to create temporary berms to prevent stormwater infiltration of storage material.
- N. Routinely observe the water surface to look for sheen, debris, or particulates from the Project site. Immediately cease work should a pollutant enter the water and notify Port Police at (310) 732-3500.

**Delta No. A**

01 41 00-14  
Spec. No. 2780

### 1.10 REMOVAL AND DISPOSAL OF TOXIC MATERIAL

- A. Railroad ties, timber piles, timber wharf framing, and utility poles present within the facilities are considered, upon disposal, to be treated wood waste (TWW) containing creosote, pentachlorophenol, or waterborne preservative (such as ACZA), which the State of California has determined to be toxic. Remove and dispose of TWW materials at Los Angeles Regional Water Quality Control Board (LARWQCB) approved and licensed landfills in conformance with the Alternative Management Standards (AMS).
- B. Submit 2 copies of the manifest from the transporter to the Engineer.
- C. Refer also to the Hazardous Waste Article of this Section.

### 1.11 CORPS OF ENGINEERS PERMIT

- A. The Department has obtained permit No. SPL-2017-00690-TS from the Department of the Army, Corps of Engineers (Corps Permit), for Wilmington Waterfront Promenade. A copy of the Corps Permit requirements is included in the Specifications as Appendix "G". Comply with these requirements and furnish controls necessary to accomplish the work in conformance with the requirements. Make timely notifications and meet the Conditions of the Corps Permit.
- B. Refer to United States Coast Guard Permits Article for additional marine construction requirements.
- C. Refer to Los Angeles Regional Water Quality Control Board (LARWQCB) 401 Water Quality Certification and Waste Discharge Permit Article of this Section for additional requirements.

### 1.12 UNITED STATES COAST GUARD PERMITS

- A. Contact the 11th Coast Guard District, Waterways Aids to Navigation Office to obtain temporary Aids to Navigation authorization and to issue Notice to Mariners. Refer to COORDINATION Section for contact information.
  - 1. File Aids to Navigation application form immediately after Award of Contract or 30 Calendar Days prior to the start of construction, whichever is later. Comply with Aids to Navigation Office requirements.
  - 2. File Notice to Mariners form at the Aids to Navigation Office 14 Calendar Days, minimum, prior to watercraft mobilization. Report changes to anticipated weekly work schedule as soon as changes are known.

**Format Change Only**

- a. Provide facsimile (fax) copy of Notice to Mariners to the Coast Guard Captain of the Ports of Los Angeles and Long Beach. Refer to COORDINATION Section for contact information.
3. Remove temporary aids to navigation connected with the Contract upon completion of the Project.
- B. Display signal lights and conduct marine operations in conformance with the General and Special Conditions of the Corps Permit and the U.S. Coast Guard.
  - C. Throughout the period of operation of the Contractor's equipment, maintain lights between hours of sunset and sunrise upon floating plant and equipment connected with the work, and upon buoys or moorings of such size and locations that could endanger or obstruct navigation.
  - D. Furnish and set lights, buoys, and other required aids to navigation in conformance with the United States Coast Guard regulations.
  - E. If night work is permitted, illuminate floating plant from sunset to sunrise. Submit a sketch to the Engineer showing the location of lights and buoys, and other floating equipment being used during the Project 30 Calendar Days prior to start of Work.
  - F. Refer to the Corps of Engineers permit included as Appendix "G" of the Specifications for additional marine construction requirements.
- 1.13 LOS ANGELES REGIONAL WATER QUALITY CONTROL BOARD (LARWQCB) 401 WATER QUALITY CERTIFICATION AND WASTE DISCHARGE REQUIREMENT PERMIT
- A. The Department will obtain the Los Angeles Regional Water Quality Control Board (LARWQCB) 401 Water Quality Certification and Waste Discharge Requirements permit. A copy of the permit is included in Appendix "H" of the Specifications.
  - B. Comply with the conditions and requirements of the Los Angeles Regional Water Quality Control Board (LARWQCB) 401 Water Quality Certification and Waste Discharge Requirements. Contractor shall perform the monitoring, sampling, testing, reporting, and other incidentals that are required to comply with the LARWQCB Waste Discharge Requirements for each individual site through an independent test laboratory. Results and reports will be submitted by the Department to LARWQCB. Contractor shall coordinate with the Department to facilitate the performance of the monitoring, sampling, and reporting work required by the LARWQCB.

**Format Change Only**

#### 1.14 MITIGATION MONITORING AND REPORTING PROGRAM

- A. Comply with the requirements of the Mitigation Monitoring and Reporting Program included as Appendix "E" of the Specifications. Refer to ENVIRONMENTAL CONSTRUCTION REQUIREMENTS Section for additional requirements.

#### 1.15 FEDERAL RAILWAY ADMINISTRATION (FRA) AND PUBLIC UTILITY COMMISSION (PUC) RAILROAD SAFETY REQUIREMENTS

- A. Contractor shall qualify employees to perform work within railroad right of way as required by FRA regulations. Refer to COORDINATION Section for additional requirements.
- B. Railroad flag persons for the work shall be present at all times where work is occurring within 25 feet of the nearest railroad track. Refer to COORDINATION Section for additional requirements.
- C. Clear a safe toe path to existing live railroad track after each workday in conformance with Public Utility Commission General Order No. 118.

#### 1.16 MARINE TERMINAL SECURITY

- A. Comply with facility operator's (tenant's) security measures pursuant to 33 CFR, Chapter 1, Part 105, Maritime Security: Facilities, including, but not limited to, gate access, vehicle loading and unloading, maintaining fences, and access to restricted areas within the terminal.
  - 1. Contractor shall comply with terminal's approved Facility Security Plan with regards to the Transportation Workers Identification Credential (TWIC) program. Provide sufficient number of TWIC-credentialed individuals such that Work can be performed without escorts provided by the terminal and be in compliance with U.S. Coast Guard Maritime Security Regulations.

#### 1.17 NATIONAL MARINE FISHERIES SERVICE/CALIFORNIA DEPARTMENT OF FISH AND GAME REQUIREMENTS

- A. Survey for the presence of Caulerpa Taxifolia and Eelgrass is required prior to pile driving and other significant ocean bottom-disturbing activities. The Department will conduct the survey not more than 90 days and not less than 30 days prior to the activity. Notify the Engineer when the 90 day period prior to the activity will begin.

**Format Change Only**

1.18 OTHER REQUIREMENTS

- A. Refer to ASBESTOS ABATEMENT Section for additional requirements.
- B. Refer to LEAD REMEDIATION Section for additional requirements.

PART 2 - PRODUCTS - NOT USED

PART 3 - EXECUTION - NOT USED

END OF SECTION

**Format Change Only**

01 41 00-18  
Spec. No. 2780

**PART 2 - PRODUCTS - NOT USED**~~2.1 BACKFILL MATERIALS~~

- ~~A. Imported fill, where required for backfill of voids, shall conform to RS Subsection 300 5, except for 300 5.4.~~
- ~~1. Fill shall consist of soil classified as SW, SM, SC, or SP in conformance with ASTM D2487. Soil shall have a minimum sand equivalent value of 20 percent in conformance with ASTM D2419.~~
- ~~B. Excavated materials may be re-used for backfill of voids left after removals in conformance with RS Subsection 300 4 exclusive of Subsection 300 4.9 and Subsection 300 4.10. Material shall not contain vegetation or other organics, rocks, broken concrete, debris, or other solid materials larger than 4 inches, or any other deleterious material.~~

**PART 3 - EXECUTION****3.1 DEMOLITION**

- A. No debris shall be allowed to enter harbor waters.
- B. Repair or replace surface and subsurface improvements removed or damaged as a result of Contractor's operations in conformance with BASIC SITE MATERIALS AND METHODS Section.
- C. Demolition work shall not exceed the limits shown on Drawings.
- D. Control dust in conformance with REGULATORY REQUIREMENTS Section.
- E. Obtain permission from the Engineer, if need arises, to traverse adjacent properties with outriggers, swinging cranes, or other heavy equipment. Refer to SITE CONDITIONS Section, Contractor's Use of Site Article.
- F. Should Contractor decide to move any large items off the site intact, Contractor shall make arrangements for required permits, clearances, and utilities.
- G. Remove vermin infested and harmful materials from site. Dispose of materials in conformance with applicable health regulations to protect workers, tenants, and the public.
- H. Perform demolition under Engineer's inspection in conformance with applicable safety standards and requirements.
- I. Burning of material on site is prohibited.
- J. Perform pavement removals in conformance with BASIC SITE MATERIALS AND METHODS Section.

**Delta No. A**

B. Permeable Paver System shall be Modular unit pavers with 1/8 inch T Spacer and honed surface, by Stepstone Inc., (800) 572-9029. ~~Porous Concrete Pavers shall be Pervious Pedestrian Paver 12 inches by 12 inches, with custom thickness of 4 inches, with honed surface, by Stepstone, Inc., (800) 572-9029.~~

1. Color: Type A Paver shall be Grenada White #3601. Type B Paver shall be Cafe Brown #1407
2. Finish: Honed
3. Compressive Strength: minimum of 3,000 pounds per square inch (psi) hardrock concrete, Type III cement
4. Air Entrainment: 5 percent average, with a minimum of 4 percent
5. Absorption: 5 percent average, with a maximum of 6 percent
6. Size: As noted on Drawings.

~~C. Parking Marker Pavers shall be 4 inches thick Modular Paver with medium sandblast, by Stepstone, Inc., (800) 572-9029.~~

- ~~1. Color:
  - a. Color White Parking Marker Pavers shall be Grenada White #3601
  - b. Color of Blue ADA Parking Marker Pavers shall be Stepstone #293G~~
- ~~2. Finish: Medium sandblast finish~~
- ~~3. Compressive Strength: minimum of 8,000 pounds per square inch~~
- ~~4. Absorption: 5 percent average, with a maximum of 6 percent~~
- ~~5. Air entrainment: 5 to 7 percent~~
- ~~6. Size: As noted on Drawings~~

C. D. Detectable Warning Pavers shall be Hanover Detectable Warning Pavers, precast pavers with raised domes, manufactured by Hanover Architectural Products, (800) 426-4242, [www.hanoverpavers.com](http://www.hanoverpavers.com).

1. Size: 24 inches by 24 inches by 2 inches thick
2. Color: Red 15
3. Pavers shall conform to the American Disabilities Act, Detectable Warning Surface No 4.29.2.

**Delta No. A**

- D. ~~E.~~ Sand for Setting Bed: Clean washed natural sand or crushed stone complying with gradation requirements of ASTM C33 for fine Aggregate.
- E. ~~F.~~ Sand for Joints: Fine washed sand with 100 percent passing No. 16 sieve and not more than 10 percent passing No. 200 sieve.
- F. ~~G.~~ Aggregate Fill: Open-graded aggregate for filling voids and joints in open grid paver units, conforming to requirements of ASTM C33 for No. 8 Crushed Stone.
- G. ~~H.~~ Edging: Formed stainless steel, Type 316, as detailed.

### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Verify that substrate is level or to correct gradient, smooth, capable of supporting pavers and imposed loads, and ready to receive work of this Section.
- B. Verify gradients and elevations of substrate are correct.

#### 3.2 PREPARATION

- A. Treat soil with herbicide to retard plant growth.

#### 3.3 INSTALLATION OF SOLID PAVER UNITS

- A. Spread sand evenly over prepared substrate surface to a maximum thickness of 1-1/2 inch.
- B. Dampen and roller compact sand to level and even surface.
- C. Screed and scarify top 1/2 inch of sand.
- D. Place paver units in pattern indicated on the drawings.
- E. Cut paver units at edges with masonry saw.
- F. Place half units at edge and interruptions. Maintain tight joints.
- G. Sprinkle sand over surface and sweep into joints. Moisten joints and recover with additional sand until firm joints are achieved. Remove excess sand.
- H. Tamp and level paver units with mechanical vibrator until units are firmly bedded, level, and to correct elevation and gradients. Do not tamp unrestrained edges.

**Delta No. A**

### ~~3.4 INSTALLATION OF POROUS PAVER UNITS~~

- ~~A. Spread sand evenly over prepared substrate course and screed to a uniform thickness of 1 1/2 inch.~~
- ~~B. Place paver units in pattern indicated on the drawings.~~
- ~~C. Maintain uniform joints between paver units not more than 1/8 inch wide.~~
- ~~D. Cut paver units at edges with masonry saw.~~
- ~~E. Compact and seat paver units into screeded setting bed using low amplitude plate compactor capable of at least 5,000 pounds centrifugal compaction force.~~
- ~~F. Vibrate and compact pavers again while sweeping aggregate fill into joints in pavers, stopping when fill material is within 1/2 inch from top surface of units. Do not compact within 3 feet of unrestrained paver edges.~~
- ~~G. Completely fill paver joints with aggregate fill. Remove excess material.~~

### 3.4 INSTALLATION OF PERMEABLE PAVER SYSTEM

- A. Install permeable paver system in conformance with manufacturer's written instructions.

### 3.5 CLEANING

- A. Clean paving promptly after installation in conformance with manufacturer's written instructions. Do not use harsh cleaning materials that could damage finish.

### 3.6 PROTECTION

- A. Protect installed paving to ensure that, except for normal weathering, paving will be without damage or deterioration at time of Substantial Completion.

END OF SECTION

**Delta No. A**

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- B. Pipes, pipe fittings or fixtures, solder or flux intended to convey or dispense water for human consumption shall be lead-free in conformance with the State of California Health and Safety Code, Section 116875 and Section 94.604.10 of the City of Los Angeles Plumbing Code. Pipe, pipe fittings or fixtures, solder or flux shall be certified by a testing laboratory recognized by the City of Los Angeles Department of Building and Safety (LADBS) for testing in conformance with the referenced Code Section.
- C. For work in accordance with Drawing No. 1-3192 DW Sheets, materials shall be in conformance with Appendix "L" of the Specifications for City of Los Angeles Department of Water and Power (LADWP) Water Specifications for LADWP's water distribution facilities. Appendix "L" of the Specifications includes LADWP's Invitation for Bids for materials to be used for LADWP's water distribution facilities. This appendix has been included in this Contract to inform the Contractor of the requirements of the materials for the LADWP work. For this Contract, Appendix "L" is to be used for the Contractor's procurement of materials for LADWP work in accordance with Drawing No. 1-3192 DW Sheets. Contractor will not be entering into a separate contract with LADWP.

## 2.2 PIPING

- A. Ductile iron shall be in conformance with RS Subsection 209-1.
  - 1. Pipe 4 inch in diameter and larger shall be Class 52 in conformance with AWWA C151/A21.51, double cement mortar lined in conformance with AWWA C104/A21.4.
  - 2. Pipe ends shall be factory machined or, if field cut, shall be beveled as required.
  - 3. Flanged pipe shall be Class 53 in conformance with AWWA C115/A21.15 unless otherwise called for on Drawings.
  - 4. Furnish pipe in standard lengths.
  - 5. Lining and coating of pipe and fittings shall be in conformance with RS Table 209-1.1.2.
  - 6. Joints for ductile iron pipes and fittings shall be in conformance with RS Table 209-1.1.2.
  - 7. Pipe shall have the letters "U.L." or "FM" marking in conformance with AWWA C151/A21.51-Section 51-11.
- B. Copper pipe shall be **hard pipe** in conformance with ASTM B88.
  - 1. Pipes 3 inch in diameter and smaller shall be Type "K".

**Delta No. A**