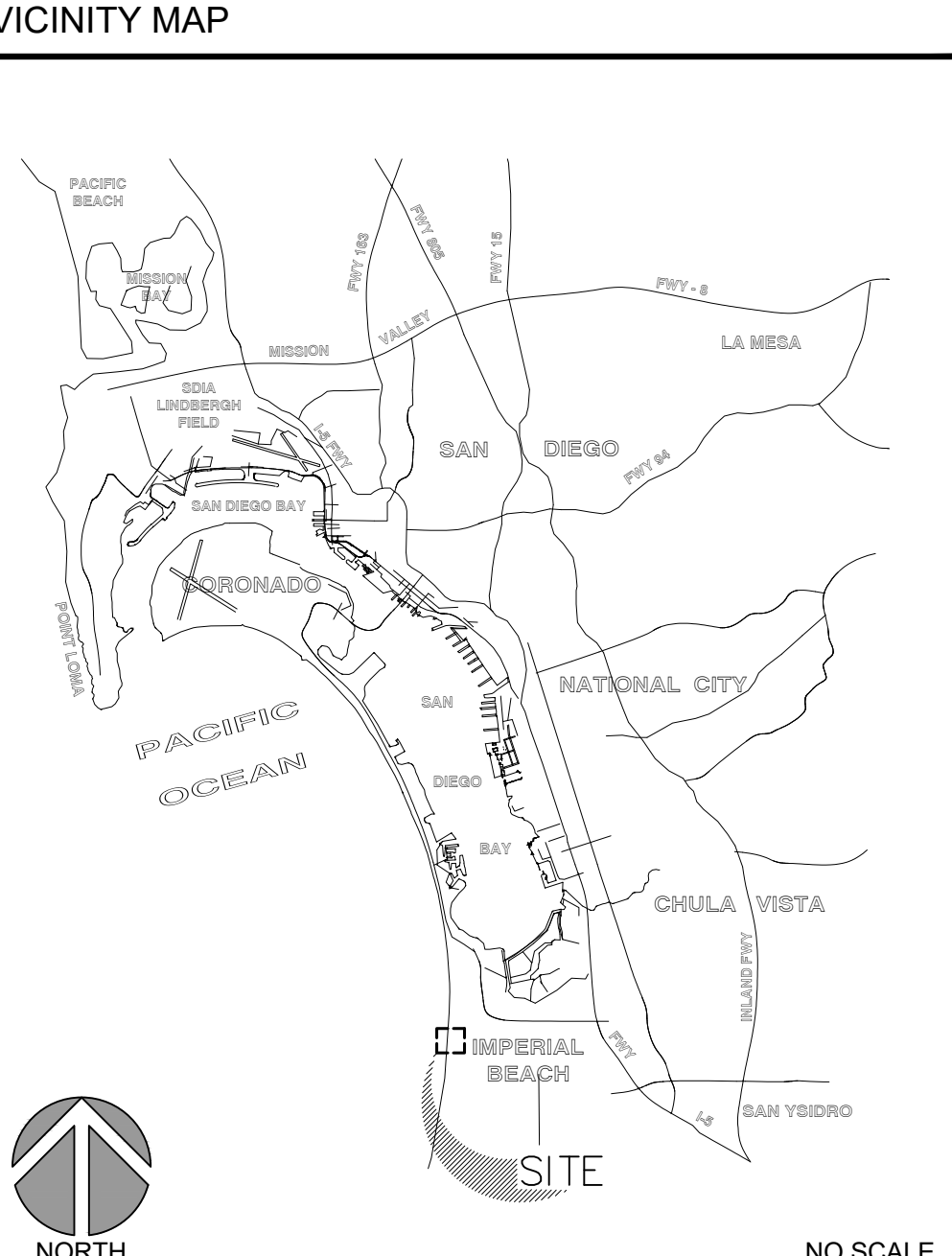


VICINITY MAP



NO SCALE

MONUMENTATION NOTE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MONUMENTATION AND/OR BENCHMARKS WHICH WILL BE DISTURBED OR DESTROYED BY CONSTRUCTION. SUCH POINTS SHALL BE REFERENCED AND REPLACED WITH APPROPRIATE MONUMENTATION BY A LICENSED LAND SURVEYOR OR A REGISTERED CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING. A CORNER RECORD OR A RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED BY THE LICENSED LAND SURVEYOR OR THE REGISTERED CIVIL ENGINEER AS REQUIRED BY THE LAND SURVEYOR'S ACT (BUSINESS AND PROFESSIONS CODE 8771).

BENCH MARK

THE BENCH MARK FOR THIS MAP IS THE PORT OF SAN DIEGO GPS CONTROL PT. SDUPD-055. A 3" BRASS DISC STAMPED "PORT OF SAN DIEGO GPS CONTROL LS 6000" IN A CONCRETE BAND, FOOT OF IMPERIAL BEACH BLVD. BETWEEN TWO TRASH RECEPTACLES.  
ELEV. = 18.988 MLLW

BASIS OF BEARINGS

THE BASIS OF BEARING FOR THIS MAP IS THE CALIFORNIA COORDINATE SYSTEM 83, ZONE 6, NAD 83, 1991.35 EPOCH AS DETERMINED LOCALLY BETWEEN STATIONS SDUPD-055 AND SDUPD-056 PER RECORD OF SURVEY 17055. SAID BEARING BEING IN TERMS OF CCS83 ZONE 6. I.E.

QUOTED BEARINGS FROM REFERENCE MAPS OR DEEDS MAY OR MAY NOT BE IN TERMS OF SAID SYSTEM.

DATE OF SURVEY

SITE TOPOGRAPHY PROVIDED BY A FIELD SURVEY BY LAND SURVEYING CONSULTANTS, INC.  
DATE OF SURVEY: SEPTEMBER 24, 2024.

"DECLARATION OF RESPONSIBLE CHARGE"

I HEREBY DECLARE THAT I AM THE LANDSCAPE ARCHITECT OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THIS PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE PORT OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS THE LANDSCAPE ARCHITECT OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

JEFFREY T. BARR  
SCHMIDT DESIGN GROUP, INC.  
1310 ROSECRANS ST, SUITE G  
SAN DIEGO, CA 92106  
PHONE: (619) 236-1462

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_  
JEFFREY T. BARR  
REGISTRATION NO: 5209 (EXP. 12/31/2025)

GENERAL NOTES

1. SECTION 4216/4217 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A PERMIT TO EXCAVATE WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER CALL UNDERGROUND SERVICE ALERT AT 1-800-422-4133 TWO WORKING DAYS BEFORE YOU DIG.

2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL SUBSTRUCTURES, WHETHER SHOWN HEREON OR NOT, AND PROTECT THEM FROM DAMAGE. THE EXPENSE OF REPAIR OR REPLACEMENT OF SAID SUBSTRUCTURES SHALL BE BORNE BY THE CONTRACTOR.

3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO ENFORCE SAFETY MEASURES OR REGULATIONS.

4. LOCATION AND ELEVATION OF ALL EXISTING IMPROVEMENTS WITHIN THE AREA OF WORK SHALL BE CONFIRMED BY FIELD MEASUREMENT PRIOR TO CONSTRUCTION OF NEW WORK. CONTRACTOR WILL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES.

5. ALL WORK TO CONFORM TO THE CONTRACT SPECIFICATIONS, "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", 2021 EDITION WITH SUPPLEMENTS (GREENBOOK), CITY OF SAN DIEGO STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, 2021 EDITION, UNLESS NOTED OTHERWISE.

6. ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE, OR RUNNING OF TRUCKS, EARTH MOVING EQUIPMENT, CONSTRUCTION EQUIPMENT, AND ANY OTHER ASSOCIATED EQUIPMENT SHALL BE LIMITED TO THE PERIOD BETWEEN 7:00 AM AND 3:30 PM EACH DAY, MONDAY THROUGH FRIDAY, AND NO GRADING OR EARTH MOVING OPERATIONS SHALL BE CONDUCTED ON THE PREMISES ON SATURDAYS, SUNDAYS OR PORT OF SAN DIEGO HOLIDAYS WITHOUT APPROVAL BY THE PORT CONSTRUCTION MANAGER OR INSPECTOR.

7. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO PROTECT EXISTING IMPROVEMENTS.

8. ALL WORK SHALL BE ACCOMPLISHED IN CONFORMANCE WITH APPLICABLE CITY OF IMPERIAL BEACH ORDINANCES AND STANDARDS.

9. CONTRACTOR IS RESPONSIBLE FOR POTHOLING PRIOR TO START OF CONSTRUCTION TO VERIFY ALL ELEVATIONS OF UNDERGROUND UTILITIES, INCLUDING IRRIGATION AND LOW VOLTAGE ELECTRICAL.

10. THE CONTRACTOR WILL BE PROVIDED WITH ELECTRONIC TOPOGRAPHIC SURVEY AND CONSTRUCTION PLANS FOR DEVELOPMENT OF A CERTIFIED HORIZONTAL CONTROL PLAN TO BE PREPARED BY A LAND SURVEYOR AND SUBMITTED TO THE RESIDENT ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. CONTRACTOR SHALL PROVIDE CONSTRUCTION STAKING THROUGHOUT THE DURATION OF THE PROJECT IN COMPLIANCE WITH THE PLANS AND CERTIFIED HORIZONTAL CONTROL PLAN.

DISCRETIONARY APPROVAL NOTES

1. FOR ANY WORK TO BE PERFORMED IN THE STREET OR ALLEY, THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR APPROVAL BY PUBLIC WORKS DIRECTOR A MINIMUM OF 5 WORKING DAYS IN ADVANCE OF STREET WORK. TRAFFIC CONTROL PLAN IS TO BE PER REGIONAL STANDARD DRAWINGS OR CALTRANS TRAFFIC CONTROL MANUAL.

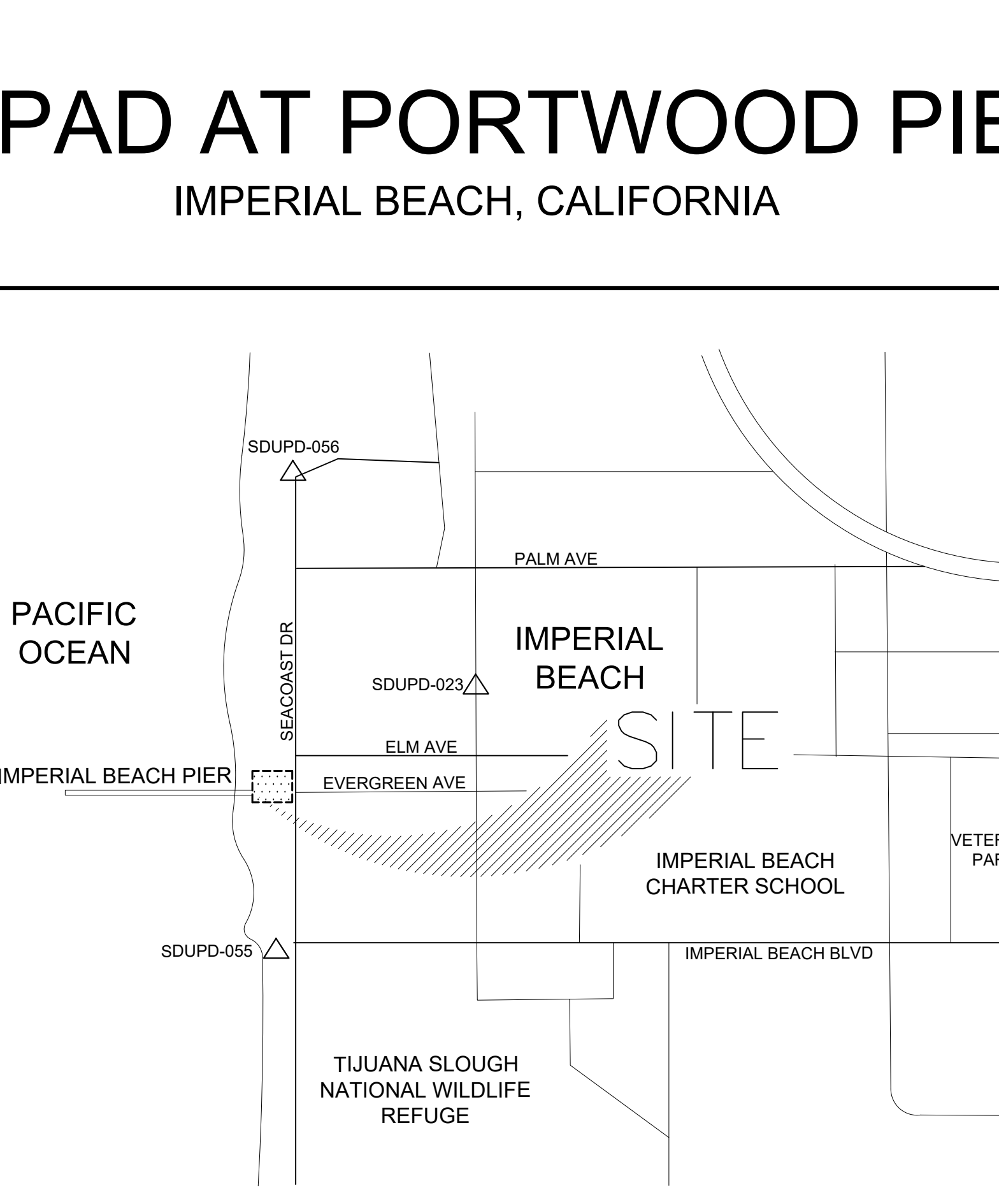
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMING THE PUBLIC OF THE TRAFFIC CONDITIONS EXISTING WITHIN THE CONSTRUCTION AREA AT ALL TIMES BY PLACEMENT OF APPROPRIATE WARNING AND ADVISORY SIGNS. THE CONTRACTOR SHALL ALSO PROVIDE AND MAINTAIN ALL TRAFFIC CONTROL AND SAFETY ITEMS. BARRICADES AND ANY OTHER DELINEATION IN THE RIGHT OF WAY SHALL BE REQUIRED AND MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF ANY RIGHT OF WAY IMPROVEMENTS. CONTRACTOR ASSUMES SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB AND SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY TWENTY-FOUR (24) HOURS PER DAY AND SHALL NOT BE LIMITED TO NORMAL WORK HOURS.

CITY OF IMPERIAL BEACH GENERAL NOTES

1. SEE SHEET T-1.1

LOCATION MAP

NOT TO SCALE



PROJECT SITE:  
THE PROJECT IMPROVEMENTS ARE LOCATED ON SEACOAST DRIVE AT EVERGREEN AVE, 1 BLOCK NE OF THE START OF THE IMPERIAL BEACH PIER.

OWNER: PORT OF SAN DIEGO

LANDSCAPE ARCHITECT:  
SCHMIDT DESIGN GROUP, INC.  
CONTACT: JENN MONTGOMERY, JT BARR  
PHONE: (619) 236-1462  
EMAIL: JMONTGOMERY@SCHMIDTDISEGN.COM  
EMAIL: JTBARR@SCHMIDTDESIGN.COM

CIVIL ENGINEER:  
LEPPERT ENGINEERING CORP.  
CONTACT: MARTY OHMSTEDE  
PHONE: (858) 597-2001 EXT. 109  
EMAIL: MARTY@LEPPERTENGINEERING.COM

ELECTRICAL ENGINEER:  
ALAGIA ENGINEERING  
CONTACT: NEAL ALAGIA  
PHONE: (858) 602 6996  
EMAIL: ALAGIAENGINEERING@GMAIL.COM

GEOTECH  
GROUP DELTA  
CONTACT: SAMUEL NARVESON  
PHONE: (858) 536-1000  
EMAIL: SAMUELN@GROUPDELTA.COM

PROJECT DIRECTORY

OWNER: PORT OF SAN DIEGO

LANDSCAPE ARCHITECT:  
SCHMIDT DESIGN GROUP, INC.  
CONTACT: JENN MONTGOMERY, JT BARR  
PHONE: (619) 236-1462  
EMAIL: JMONTGOMERY@SCHMIDTDISEGN.COM  
EMAIL: JTBARR@SCHMIDTDESIGN.COM

CIVIL ENGINEER:  
LEPPERT ENGINEERING CORP.  
CONTACT: MARTY OHMSTEDE  
PHONE: (858) 597-2001 EXT. 109  
EMAIL: MARTY@LEPPERTENGINEERING.COM

ELECTRICAL ENGINEER:  
ALAGIA ENGINEERING  
CONTACT: NEAL ALAGIA  
PHONE: (858) 602 6996  
EMAIL: ALAGIAENGINEERING@GMAIL.COM

GEOTECH  
GROUP DELTA  
CONTACT: SAMUEL NARVESON  
PHONE: (858) 536-1000  
EMAIL: SAMUELN@GROUPDELTA.COM


REMEDIAL EARTHWORK

PER GEOTECH REPORT BY GROUP DELTA, DATED OCTOBER 25, 2024  
PROJECT NO. SD834

REMEDIAL EARTHWORK - SURFACE IMPROVEMENTS:  
REMEDIAL EARTHWORK IS REQUIRED BELOW THE PROPOSED SURFACE IMPROVEMENTS TO REMOVE EXISTING FILLS AND REPLACE THEM WITH NON-EXPANSIVE COMPACTED FILL. REMEDIAL EARTHWORK SHALL CONSIST OF REMOVING THE UPPER TWO FEET OF SOIL UNDERLYING THE PROPOSED SURFACE IMPROVEMENTS. REMOVALS SHALL EXTEND TWO FEET OR MORE Laterally OUTSIDE THE PLAN LIMITS OF PROPOSED SURFACE IMPROVEMENTS, WHERE FEASIBLE.

THE RESULTANT REMOVAL BOTTOM SURFACE SHOULD THEN BE SCARIFIED TO A DEPTH OF 12 INCHES, MOISTURE CONDITIONED AND COMPACTED. IF COMPETENT OLD PARALIC DEPOSITS ARE EXPOSED AT THE RESULTANT REMOVAL BOTTOM SURFACE, THE SCARIFICATION AND RECOMPACTION RECOMMENDATION MAY BE WAIVED. THE EXCAVATION SHOULD THEN BE FILLED UP TO FINISH SUBGRADE ELEVATIONS WITH NON-EXPANSIVE (EXPANSION INDEX OF 20 OR LESS) COMPACTED FILL.

CONSULTANT



SCHMIDT  
DESIGN  
GROUP

1310 Rosecrans St., Suite G, San Diego, CA 92106  
619.236.1462  
LIC. CA 2138 | NV 219 | AZ 34139  
SCHMIDTDESIGN.COM

SDG PRJ# 24-408

LICENSED LANDSCAPE ARCHITECT  
JEFFREY T. BARR No. 5209

SIGNATURE  
12-31-25  
RENEWAL DATE  
5/5/25  
DATE

RECORD DRAWING

REVIEWED BY: \_\_\_\_\_  
PROJECT MANAGER/ENGINEER  
DATE: \_\_\_\_\_

NOTE:  
THIS DRAWING MAY BE A REDUCED SCALE PRINT OF THE ORIGINAL DRAWING. UTILIZE GRAPHIC SCALES TO VERIFY IF DRAWING IS A REDUCTION, AND ADJUST SCALES ACCORDINGLY TO THE GRAPHIC SCALES SHOWN.

SPEC. NO. 2025-02 WBS NO. BC-0004-01

REFERENCES

PROJECT ENGINEER

CONTRACTOR

CONSTRUCTION STARTED

CONSTRUCTION COMPLETED

COST

INSPECTOR

REVISIONS

DATE / APPROVED

DESIGNED  
JM JJ CC

DRAWN

CC

CHECKED  
JM JJ

APPROVAL  
RECOMMENDED

PROJECT MANAGER

APPROVED

DISTRICT MANAGER-DESIGN

SAN DIEGO UNIFIED PORT DISTRICT

DATE 5/5/2025

A/E NO. T-1.0

SHEET 01 OF 40

DRAWING NO. IB-2025-01

REV.

SPLASH PAD AT PORTWOOD PIER PLAZA

TITLE SHEET AND SHEET INDEX




## CITY OF IMPERIAL BEACH GENERAL NOTES

- THE APPROVAL OF THE PLANS BY THE CITY OF IMPERIAL BEACH DOES NOT AUTHORIZE THE CONTRACTOR TO VIOLATE ANY FEDERAL, STATE, OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES, INCLUDING BUT NOT LIMITED TO, THE FEDERAL ENDANGERED SPECIES ACT OF 1973 AND AMENDMENTS THERETO (16 USC SECTION 1531 ET. SEQ.).
  2. IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER TO BE ISSUED BEFORE A 'PERMIT TO EXCAVATE WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TOLL FREE 1-800-227-2600, TWO DAYS BEFORE YOU DIG.
  3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS, WHICH ARE DISTURBED, OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED, SUCH MONUMENTS SHALL BE REPLACED WITH APPROPRIATE MONUMENTS BY A LAND SURVEYOR OR AN AUTHORIZED CIVIL ENGINEER. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED AS REQUIRED BY THE PROFESSIONAL LAND SURVEYOR'S ACT. IF ANY VERTICAL CONTROL BENCHMARKS ARE TO BE DISTURBED OR DESTROYED, THE CITY OF IMPERIAL BEACH PUBLIC WORKS DIRECTOR (ERIC MINICILLI) MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
  4. PRIOR TO ANY DISTURBANCE TO THE SITE, EXCLUDING UTILITY MARK-OUTS AND SURVEYING, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THE PRE-CONSTRUCTION MEETING WITH THE CITY OF IMPERIAL BEACH PUBLIC WORKS DEPARTMENT (619) 423-8311.
  5. CONTRACTOR SHALL IMPLEMENT AN EROSION CONTROL PROGRAM DURING THE PROJECT GRADING AND OR CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET ALL APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD, REGIONAL WATER CONTROL BOARD SAN DIEGO REGION AND THE CITY OF IMPERIAL BEACH MUNICIPAL CODE AND STORM WATER STANDS MANUAL.
  6. ISSUANCE OF THE CITY'S NOTICE TO PROCEED SHALL NOT RELIEVE THE APPLICANT OR ANY OF THEIR REPRESENTATIVES OR CONTRACTORS FROM COMPLYING WITH ANY STATE OR FEDERAL REQUIREMENTS BY AGENCIES INCLUDING BUT NOT LIMITED TO CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE, OR OTHER AGENCIES. COMPLIANCE MAY INCLUDE OBTAINING PERMITS, OTHER AUTHORIZATIONS, OR COMPLIANCE WITH MANDATES OF ANY APPLICABLE STATE/FEDERAL AGENCY.
  7. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE ENGINEER OR INSPECTED AND APPROVED BY THE ENGINEER OR INSPECTOR PRIOR TO ACCEPTANCE OF THE PROJECT BY THE CITY OF IMPERIAL BEACH.
  8. DEVIATIONS FROM THESE SIGNED PLANS WILL NOT BE ALLOWED UNLESS A CONSTRUCTION CHANGE IS APPROVED IN WRITING BY THE PUBLIC WORKS DIRECTOR AND THE CHANGE IS REQUIRED BY THE CITY INSPECTOR.
  9. WEAKENED PLANE JOINTS ARE REQUIRED EVERY 5 FEET EACH WAY AND SHALL BE IN ACCORDANCE WITH REGIONAL STANDARD DRAWING G-09 AND THESE PLANS. EXPANSION JOINTS ARE REQUIRED AT CURB RETURNS ADJACENT TO STRUCTURES AND EVERY 45 FEET AND SHALL BE IN ACCORDANCE WITH REGIONAL STANDARD DRAWING G-10 AND THESE PLANS. THEY SHALL BE PLACED IN A STRAIGHT LINE, COMPLETELY THOUGH THE CONCRETE TO THE SUBGRADE AND TO EACH EDGE OF PAVING. CONCRETE SHALL BE CURED IN ACCORDANCE WITH THE 2015 STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK).
  10. WHEN PERFORMING EXCAVATION WORK, CARE MUST BE TAKEN NOT TO ALLOW ANY DEBRIS TO ENTER ANY EXISTING SANITARY SEWER MANHOLES OR STORM DRAINS. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DEBRIS THAT HAS ENTERED MANHOLES AND STORM DRAINS FROM HIS CONSTRUCTION AND WILL HAVE TO REMOVE SAME.
  11. CONTRACTOR SHALL COORDINATE HIS SCHEDULE WITH THE CITY OF IMPERIAL BEACH PUBLIC WORKS AND EDCO DISPOSAL (619) 287-7555 FOR TRASH COLLECTION IN CONJUNCTION WITH CONSTRUCTION WORK.
  12. FOR UTILITY TRENCH BACKFILL BENEATH STRUCTURES, PAVEMENTS AND HARDCAPE SHALL BE COMPACTED TO AT LEAST 90% RELATIVE COMPACTION. THE TOP 12 INCHES OF SUBGRADE BENEATH PAVEMENTS SHALL BE COMPACTED TO AT LEAST 95%.
  13. CONTRACTOR SHALL LOCATE ALL UTILITIES WITHIN LIMITS OF WORK PRIOR TO CONSTRUCTION. FOR LOCATIONS OF UTILITIES CONTACT:
 

COX CABLE TV	1-800-262-1122
AT&T	1-800-411-7343
AT&T	1-800-288-2020
CALIFORNIA AMERICAN WATER CO.	1-619-446-5700
IMPERIAL BEACH PUBLIC WORKS (SEWER)	1-619-423-8311
  14. THE CONTRACTOR SHALL NOTIFY THE SAN DIEGO GAS AND ELECTRIC COMPANY AND THE PACIFIC TELEPHONE AND TELEGRAPHY COMPANY, AT&T AND COX, CALAM PRIOR TO STARTING WORK NEAR COMPANY FACILITIES AND SHALL COORDINATE THEIR WORK WITH COMPANY REPRESENTATIVES. FOR LOCATION OF ELECTRIC CABLES, GAS PIPING, WATER LINES, AND TELEPHONE CABLES, AND APPURTENANCES CONTACT UNDERGROUND SERVICE ALERT: 1-800-422-4133 ALSO, REFER TO CITY STANDARDS.
  15. THE CONTRACTOR SHALL NOTIFY THE CITY OF IMPERIAL BEACH PUBLIC WORKS DEPARTMENT INSPECTOR 48 HOURS PRIOR TO STARTING WORK SO THAT INSPECTION MAYBE PROVIDED. (TELEPHONE NUMBER: 619-423-8311)
  16. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2015 EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2015 EDITION OF STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION, 2015 THE SAN DIEGO REGIONAL STANDARD DRAWINGS (SDRSD),
  17. PAVEMENT SECTIONS SHOWN ARE TO BE VERIFIED BY "R" VALUE TESTS (TEST METHOD NO. CALIFORNIA 301) AND PAVEMENT DESIGN REPORT, TO BE SUBMITTED BY SOILS ENGINEER, FOR CITY ENGINEER'S APPROVAL.
  18. ALL METALS PLACED IN THE GROUND SHALL BE IN ENCASED 6 INCHES OF NEUTRAL SAND.
  19. CONSTRUCTION EXPANSIONS JOINTS IN CURB AND GUTTER AT RETURNS AND AT DRIVEWAY INTERSECTIONS ARE REQUIRED PER SDRSD G-9 AND G-10.
  20. ALL UNDERGROUND UTILITIES SHALL BE INSTALLED BEFORE CONSTRUCTION OF CURBS, CROSS GUTTERS, OR SURFACING OF THE STREETS AND SHALL BE MARKED FOR EASY LOCATION. THE ENGINEER OF WORK SHALL CERTIFY ALL IMPROVEMENTS TO WITHIN 0.1 FEET OF THE DESIGN.
  21. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AN EXCAVATION PERMIT FROM THE DIVISION OF INDUSTRIAL SAFETY AND ADHERE TO ALL PROVISIONS OF THE STATE CONSTRUCTION SAFETY ORDERS.
  22. SOILS REPORTS ON ALL TRENCHES SHALL BE SUBMITTED TO THE ENGINEER OF WORK AND THE CITY ENGINEER BY THE SOILS ENGINEER OF RECORD, WHICH CERTIFIES THAT TRENCH BACKFILL WAS COMPACTED AS DIRECTED BY THE SOILS ENGINEER IN ACCORDANCE WITH THE EARTHWORK SPECIFICATIONS AND CITY OF IMPERIAL BEACH SPECIFICATIONS AND GRADING ORDINANCE.
  23. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CURRENT STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION TRAFFIC CONTROL MANUAL AND SUPPLEMENTS (CALTRANS TRAFFIC CONTROL MANUAL); AND TRAFFIC CONTROL WARNING SIGNS, LIGHTS, AND DEVICES SHALL CONFORM TO THE 2010 CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CALIFORNIA MUTCD 2010, INCLUDING REVS. 1 AND 2 OF THE FHWA'S MUTCD 2003), DEPARTMENT OF TRANSPORTATION, DIVISION OF TRAFFIC OPERATIONS. THE CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLAN, FOR APPROVAL BY THE DEPARTMENT OF PUBLIC WORKS, 48 HOURS PRIOR TO START OF CONSTRUCTION.
  24. CENTERLINE MONUMENTS SHALL BE INSTALLED AT THE EC AND BC OF ALL CURVES. AT THE CENTERLINE INTERSECTION OF ALL STREETS WHERE MANHOLES ALLOW, AT THE RADIUS POINT OF CONCENTRIC CULS-DE-SAC, AND AT THE ANGLE POINT OF OFFSET CULS-DE-SAC, PER SDRSD M-10 AND M-11.
  25. ALL EXISTING IMPROVEMENTS INCLUDING CURBS AND GUTTERS, SIDEWALKS, ASPHALT CONCRETE OR P.C.C. PAVING, WHICH ARE BEING JOINED OR MATCHED IN CONNECTION WITH THIS PROJECT, SHALL BE JOINED OR MATCHED IN A MANNER SATISFACTORY TO THE CITY PUBLIC WORKS DIRECTOR, INCLUDING NECESSARY SAW-CUTTING, REMOVAL, REPLACEMENT, AND CAPPING.
  26. ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING-UP, REPAIR, ARRIVAL, DEPARTURE, OR RUNNING OF TRUCKS, EARTHMOVING EQUIPMENT, CONSTRUCTION EQUIPMENT, AND ANY OTHER ASSOCIATED EQUIPMENT SHALL BE LIMITED TO THE PERIOD BETWEEN 7:00 AM AND 5:00 PM MONDAY THROUGH FRIDAY; AND, NO EARTHMOVING OR GRADING OPERATIONS SHALL BE CONDUCTED ON THE PREMISES ON SATURDAYS OR SUNDAYS OR LEGAL HOLIDAYS, UNLESS WAIVED BY THE PUBLIC WORKS DIRECTOR.
  27. PATCHING OF SIDEWALK IS NOT PERMITTED.
  28. DAMAGED, GOUGED, BROKEN, OR GRAFFITI-MARKED SECTIONS OF CURBS, GUTTERS, OR SIDEWALKS SHALL BE REMOVED OR REPLACED.
  29. A MINIMUM REPLACEMENT SECTION TO BE AT LEAST EQUAL TO SCORE MARK (TYPICALLY 5 FEET X 5 FEET) FOR SIDEWALKS EXCEEDING 5 FEET WIDTH, REPLACEMENT IS TO BE FULL WIDTH SQUARED TO THE NEXT SCORE MARK.
  30. ALL VALVE CANS AND RISERS ON THE CITY'S OPERATIONAL SYSTEM WILL BE RAISED TO GRADE, INCLUDING COMPACTION AROUND THE RISER AND PAVING AROUND VALVE CAN, WITHIN 48 HOURS AFTER PAVEMENT HAS BEEN PLACED. THIS INCLUDES VALVE CANS AND RISERS ON THE EXISTING SYSTEM AND ON ALL NEW SYSTEMS THAT ARE TIED INTO THE CITY'S EXISTING SYSTEM.
  31. ALL SEWER MANHOLES ON THE CITY'S OPERATIONAL SYSTEM WILL BE RAISED TO GRADE WITHIN 48 HOURS AFTER FINAL LIFT OF PAVEMENT HAS BEEN PLACED. THIS INCLUDES MANHOLES ON THE EXISTING SYSTEM AND ON ALL NEW SYSTEMS THAT ARE TIED INTO THE CITY'S EXISTING SYSTEM.

<h1 style="margin: 0;">CITY OF IMPERIAL BEACH, CALIFORNIA</h1> <h2 style="margin: 0;">ENGINEERING DEPARTMENT</h2> <h3 style="margin: 0;">SHEET 02 OF 40 SHEETS</h3>				
FOR CITY ENGINEER		DATE		
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	SDG			
CONTRACTOR _____		DATE STARTED _____		
INSPECTOR _____		DATE COMPLETED _____		

RECORD DRAWING		SPEC. NO.: 2025-02		WBS NO: BC-0004-01								DESIGNED JM JJ	
REVIEW: Y:		REFERENCES										DRAWN JM JJ	
		PROJECT ENGINEER										CHECKED CC	
		CONTRACTOR										SHEKED JM JJ	
		CONSTRUCTION STARTED											
		CONSTRUCTION COMPLETED											
TH I N T E J E U E A W I N M A Y E A T H E I N A L A W I N E F U T I L I Z E A H I A L E T V E I F Y I F A W I N I A E U T I N A N A J U T A L E A I N L Y T H E A H I A L E H W N		A T E: J E T M A N A E V E N I N E E A T E:		C O S T I N S P E C T O R R E V I S I O N S D A T E / A P P R O V E D		 <b>PORT of SAN DIEGO</b> <i>Waterfront of Opportunity</i>							





CITY OF IMPERIAL BEACH, CALIFORNIA  
ENGINEERING DEPARTMENT  
SHEET 03 OF 40 SHEETS

CONSULTANT

**SCHMIDT  
DESIGN  
GROUP**

1310 Rosecrans St., Suite G, San Diego, CA 92106  
619.236.1462  
LIC. CA 2138 | NV 219 | AZ 34139  
SCHMIDTDESIGN.COM  
SDG PRJ# 24-408

LICENSED LANDSCAPE ARCHITECT  
JEFFREY T. BARR NO. 5298  
SIGNATURE  
12-31-25  
RENEWAL DATE  
5/25  
DATE

FOR CITY ENGINEER		DATE		
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	SDG			
CONTRACTOR		DATE STARTED		
INSPECTOR		DATE COMPLETED		

RECORD DRAWING

REVIEW Y:  
DATE:

NOTE:	SPEC NO. 2025-02	WBS NO. BC-0004-01
THIS DRAWING MAY BE A	REFERENCES	
REUSE OF ANY PART	PROJECT ENGINEER	
OF THIS DRAWING	CONTRACTOR	
WITHOUT THE WRITTEN	CONSTRUCTION STARTED	
PERMISSION OF THE	CONSTRUCTION COMPLETED	
ENGINEER, IT IS THE	COST	
RESPONSIBILITY OF THE	INSPECTOR	
USER TO OBTAIN THE	REVISIONS	
NECESSARY PERMISSIONS	DATE / APPROVED	



DESIGNED	APPROVAL
JM JJ CC	RECOMMENDED
DRAWN	
CC	PROJECT MANAGER
CHECKED	
JM JJ	DISTRICT MANAGER-DESIGN

SAN DIEGO UNIFIED PORT DISTRICT		DATE 5/5/2025
SPLASH PAD AT PORTWOOD PIER PLAZA		A/E NO. 1-1-2
EXISTING CONDITIONS PHOTOS		SHEET 03 OF 40
		DRAWING NO. IB-2025-01



Apr 17, 2025 - 10:51am Mr: IactJobs\B102\Civil\Civil Plans\B102 Civil Sheets.dwg

SPECIAL NOTES:

THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTION TO THE CONTRACTOR BY THE ENGINEER OF WORK.

1. NEITHER THE OWNER, NOR THE ENGINEER OF WORK WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.

2. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOBSITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. INCLUDING SAFETY OF ALL PERSONS AND PROPERTY AND THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

3. BEFORE EXCAVATION FOR THIS CONTRACT, THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES WITH THE APPROPRIATE UTILITY COMPANY. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES OR STRUCTURES AS SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS TO THE BEST OF OUR KNOWLEDGE. THE CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINE SHOWN AND ANY OTHER NOT OF RECORD OR NOT SHOWN ON THESE PLANS.

4. ALL DAMAGE THERETO CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE APPROPRIATE SPECIFICATIONS AND AT THE EXPENSE OF THE CONTRACTOR. LOCATION AND ELEVATION OF EXISTING IMPROVEMENTS TO BE MET BY NEW CONSTRUCTION SHALL BE VERIFIED BY FIELD MEASUREMENT PRIOR TO CONSTRUCTION.

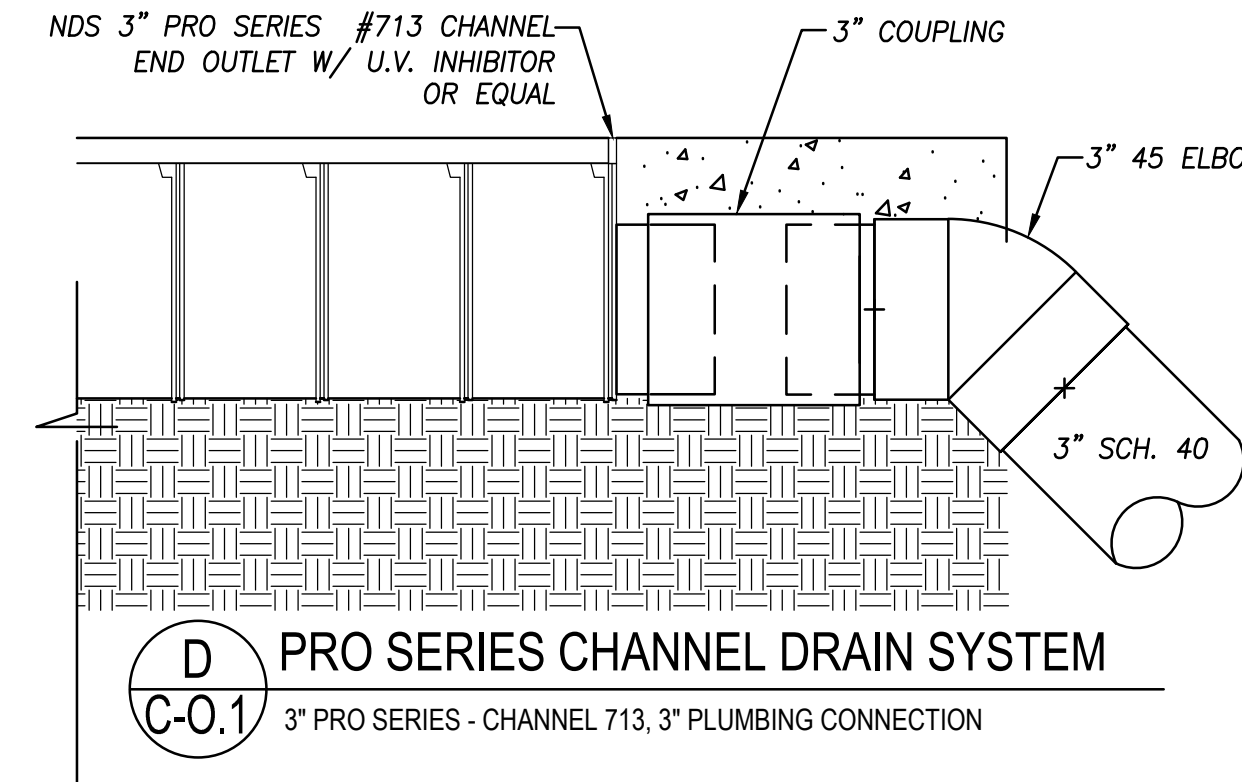
GENERAL NOTES:

1. THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE CITY OF IMPERIAL BEACH DOES NOT AUTHORIZE THE SUBDIVIDER AND OWNER TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES, INCLUDING, BUT NOT LIMITED TO, THE FEDERAL ENDANGERED SPECIES ACT OF 1973 AND AMENDMENTS THERETO (16 USC SECTION 1531 ET.SEQ.)

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY CONSTRUCTION. IF DESTROYED, A LAND SURVEYOR SHALL REPLACE SUCH MONUMENTS WITH APPROPRIATE MONUMENTS. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT, SECTION 8771 OF THE BUSINESS AND PROFESSIONS CODE OF THE STATE OF CALIFORNIA. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.

3. IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TOLL FREE 1-800-422-4133, TWO DAYS BEFORE YOU DIG.

4. CONTRACTOR SHALL IMPLEMENT AN EROSION AND SEDIMENT CONTROL PROGRAM DURING THE PROJECT GRADING AND/OR CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET ALL APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD AND THE CITY OF IMPERIAL BEACH MUNICIPAL CODE AND STORM WATER STANDARDS MANUAL.



DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE CIVIL ENGINEER OF WORK FOR THE CIVIL IMPROVEMENT PLANS, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE PORT OF SAN DIEGO AND THE CITY OF IMPERIAL BEACH IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS A CIVIL ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR CIVIL PROJECT DESIGN.

JOHN D. LEPPERT RCE NO. 26283 4/17/25 DATE

RECORD DRAWING

REVIEWED BY: PROJECT MANAGER/ENGINEER DATE:

NOTE: THIS DRAWING MAY BE A REDUCED SCALE PRINT OF THE ORIGINAL DRAWING. UTILIZE GRAPHIC SCALES TO VERIFY IF DRAWING IS A REDUCTION, AND ADJUST SCALES ACCORDINGLY TO THE GRAPHIC SCALES SHOWN.

SPEC NO.	2025-02	WBS NO.	BC-0004-01
REFERENCES			
PROJECT ENGINEER			
CONTRACTOR			
CONSTRUCTION STARTED			
CONSTRUCTION COMPLETED			
COST			
INSPECTOR			

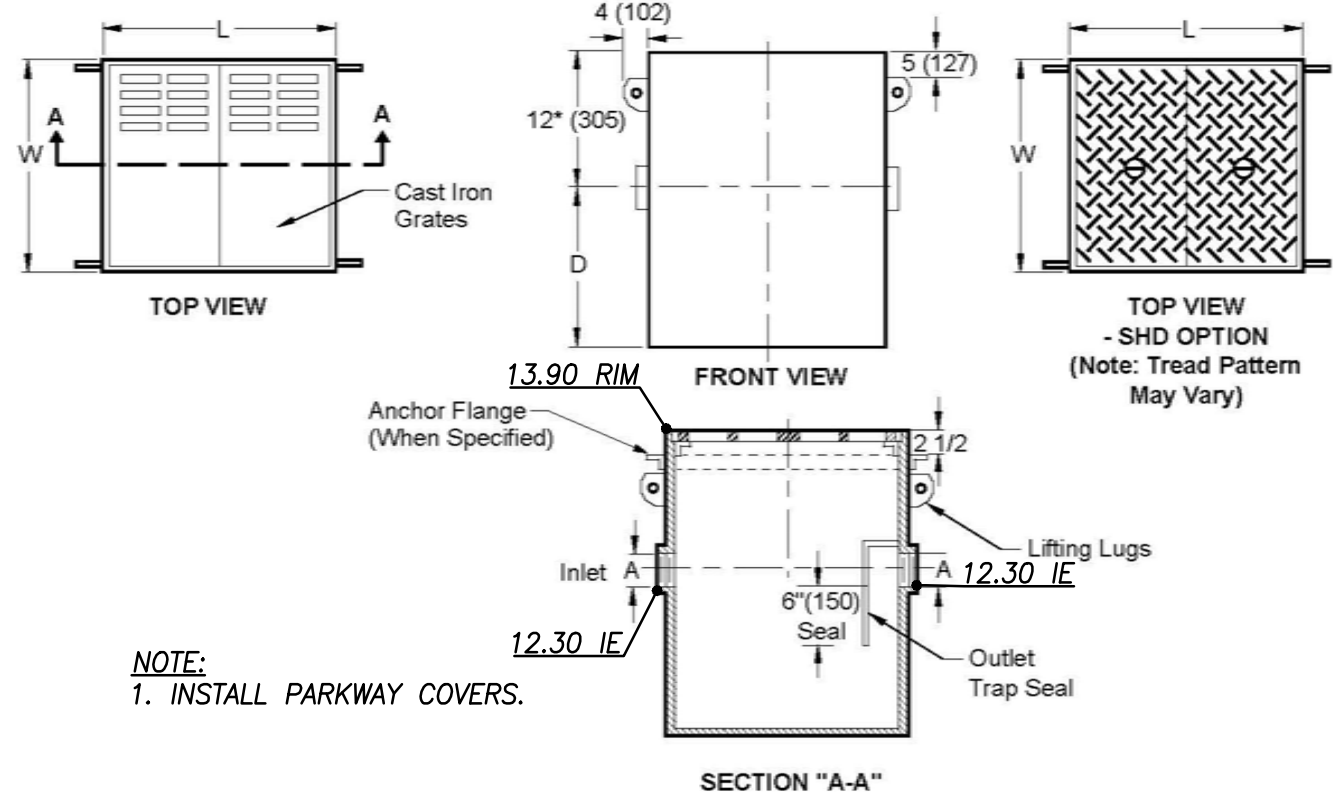
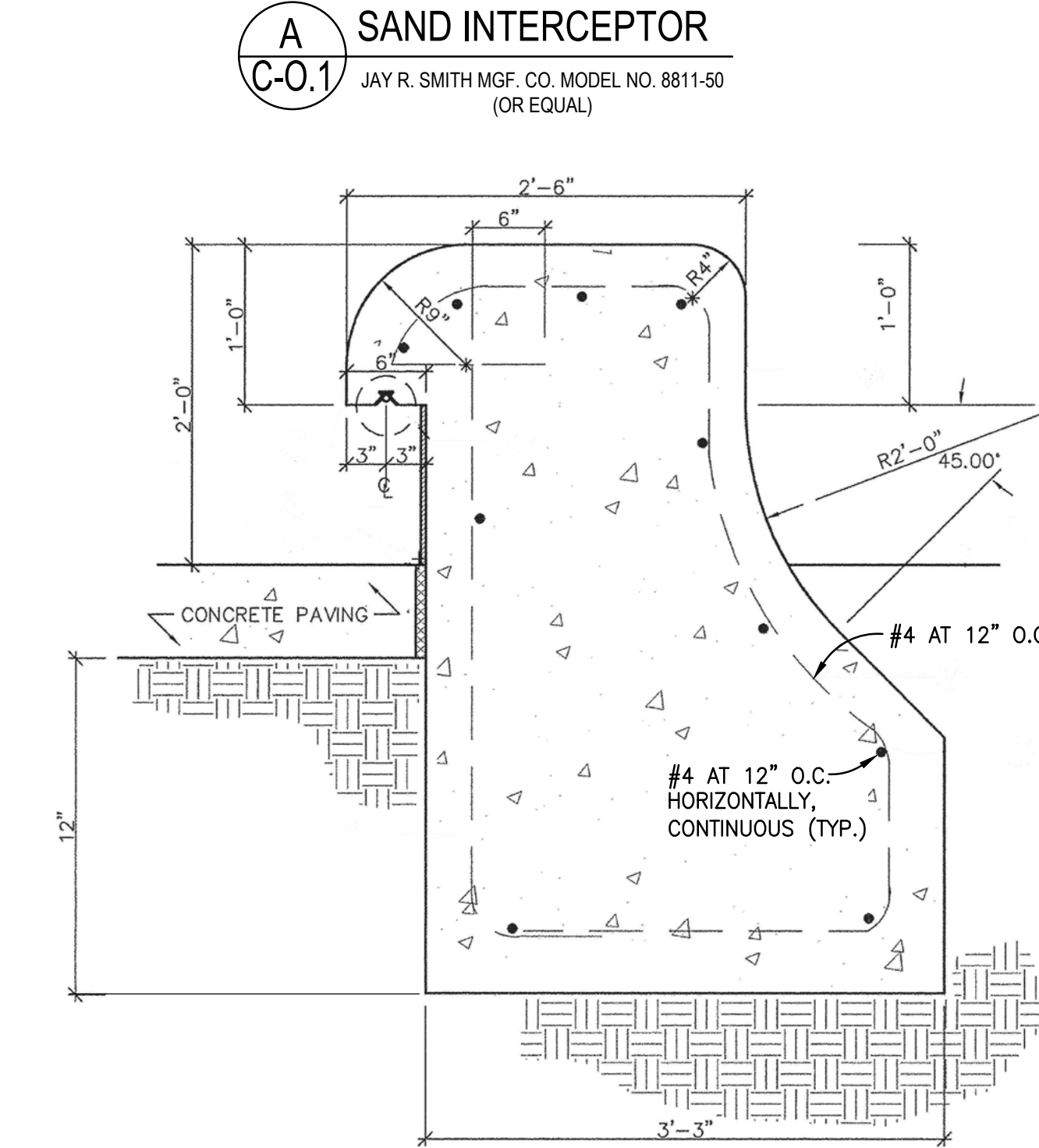
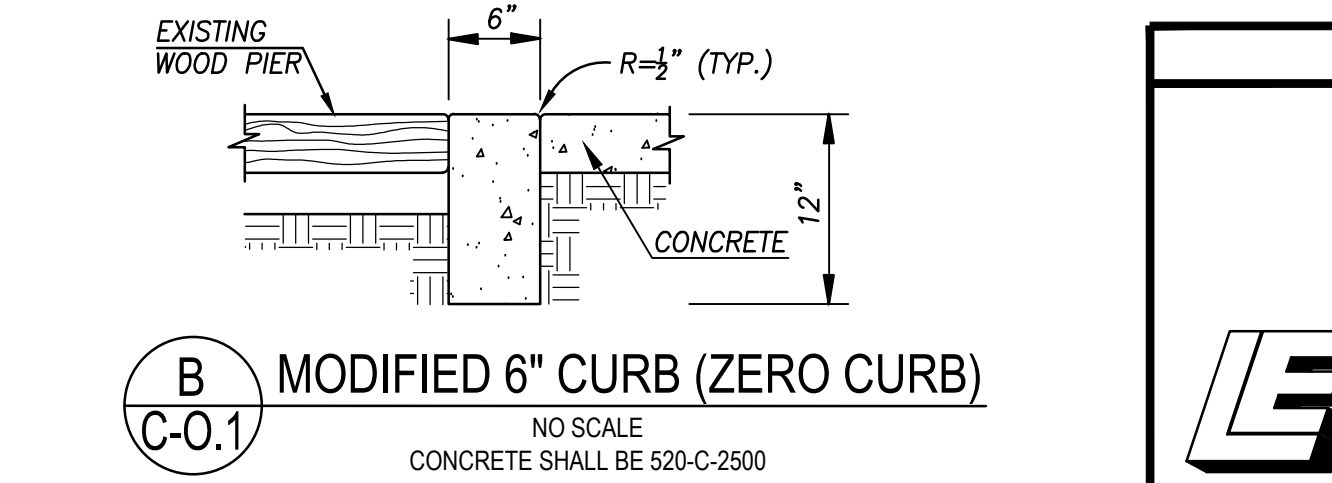


Fig. No.	Flow G.P.M. (Max)	A (Pipe Size)	L	W	D	Capacity (Static) Gals	No. of 12 x 24 Grates
8811-20	20	04 (100)	24 5/8 (631)	24 5/8 (631)	26 (660)	60	2
8811-50	50	04 (100)	48 5/8 (1235)	24 5/8 (631)	26 (660)	120	4
8811-150	150	04 (100)	48 5/8 (1235)	49 (1245)	38 (965)	360	8
8811-250	250	06 (150)	72 5/8 (1844)	49 (1245)	39 (990)	540	12
8811-350	350	06 (150)	96 5/8 (2454)	49 (1245)	45 (1143)	855	16
8811-500	500	06 (150)	120 5/8 (3063)	49 (1245)	51 (1295)	1200	20



C C-0.1 SECTION - EXISTING SEAT WALL TO BE REMOVED PER IMPERIAL BEACH PIER PLAZA PLANS, CITY OF IMPERIAL BEACH DRAWING NO. 2408. NO SCALE



B C-0.1 MODIFIED 6" CURB (ZERO CURB) NO SCALE CONCRETE SHALL BE 520-C-2500

SOURCE CONTROL BMP'S

SOURCE CONTROL REQUIREMENT	APPLIED?
SC-1 PREVENTION OF ILLICIT DISCHARGES INTO THE MS4	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
SC-2 STORM DRAIN STENCILING OR SIGNAGE	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
SC-3 PROTECT OUTDOOR MATERIALS STORAGE AREAS FROM RAINFALL, RUN-ON, RUNOFF, AND WIND DISPERSAL	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
SC-4 PROTECT MATERIALS STORED IN OUTDOOR WORK AREAS FROM RAINFALL, RUN-ON, RUNOFF, AND WIND DISPERSAL	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
SC-5 PROTECT TRASH STORAGE AREAS FROM RAINFALL, RUN-ON, RUNOFF, AND WIND DISPERSAL	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
SC-6 ADDITIONAL BMPs BASED ON POTENTIAL SOURCES OF RUNOFF POLLUTANTS	
ON-SITE STORM DRAIN INLETS	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
INTERIOR FLOOR DRAINS AND ELEVATOR SHAFT SUMP PUMPS	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
INTERIOR PARKING GARAGES	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
NEED FOR FUTURE INDOOR & STRUCTURAL PEST CONTROL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
LANDSCAPE/OUTDOOR PESTICIDE USE	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
POOLS, SPAS, PONDS, DECORATIVE FOUNTAINS, AND OTHER WATER FEATURES	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
FOOD SERVICE	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
REFUSE AREAS	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
INDUSTRIAL PROCESSES	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
OUTDOOR STORAGE OF EQUIPMENT OR MATERIALS	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
VEHICLE/EQUIPMENT REPAIR AND MAINTENANCE	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
FUEL DISPENSING AREA	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
LOADING DOCKS	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
FIRE SPRINKLER TEST WATER	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
MISCELLANEOUS DRAIN OR WASH WATER	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
PLAZAS, SIDEWALKS, AND PARKING LOTS	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A

SITE DESIGN BMP'S

SITE DESIGN REQUIREMENT	APPLIED?
SD-1 MAINTAIN NATURAL DRAINAGE PATHWAYS AND HYDROLOGIC FEATURES	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
SD-2 CONSERVE NATURAL AREAS, SOILS, AND VEGETATION	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
SD-3 MINIMIZE IMPERVIOUS AREA	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
SD-4 MINIMIZE SOIL COMPACTION	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
SD-5 IMPERVIOUS AREA DISPERSION	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
SD-6 RUNOFF COLLECTION	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
SD-7 LANDSCAPING WITH NATIVE OR DROUGHT TOLERANT SPECIES	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
SD-8 HARVESTING AND USING PRECIPITATION	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A

BASIS OF ELEVATIONS

THE BASIS OF ELEVATIONS FOR THIS MAP IS THE PORT OF SAN DIEGO GPS CONTROL PT SDUPD-055. A 3" BRASS DISC STAMPED "PORT OF SAN DIEGO GPS CONTROL LS 6000" IN A CONCRETE BAND, FOOT OF IMPERIAL BEACH BLVD. BETWEEN 2 TRASH ENCLOSURES.

ELEV. = 18.988 MLLW

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS MAP IS THE CALIFORNIA COORDINATE SYSTEM 83, ZONE 6, NAD 83, 1991.35 EPOCH AS DETERMINED LOCALLY BETWEEN STATIONS SDUPD-055 AND SDUPD-056 PER RECORD OF SURVEY 17055. SAID BEARING BEING IN TERMS OF CCS83 ZONE 6. I.E.

QUOTED BEARINGS FROM REFERENCE MAPS OR DEEDS MAY OR MAY NOT BE IN TERMS OF SAID SYSTEM.

TOPOGRAPHY SOURCE

SITE TOPOGRAPHY PROVIDED BY A FIELD SURVEY BY LAND SURVEYING CONSULTANTS, INC. DATE OF SURVEY: SEPTEMBER 24, 2024.

LEGEND:

PROPOSED IMPROVEMENTS

DESCRIPTION	STD. DWG. / REF.	SYMBOL
RIGHT-OF-WAY LINE / PROPERTY LINE		---
6" PCC CURB	SDRSD G-01, G-09, G-10	=====
CONCRETE PAVING	PER DETAILS ON LC SHEETS	=====
CONCRETE SEAT WALL	PER DETAILS ON LC SHEETS	=====
SAWCUT LINE		-----
1" WATER LINE	SDRSD WP-01, WP-02, WS-01	---W---
4" SEWER SERVICE	SDRSD SS-01, SS-03	---(S)---
TRENCH DRAIN	PER DETAIL D ON SHEET C-0.1	=====
4" STORM DRAIN		---SD---
AREA DRAIN	PER DETAILS A AND B ON SHEET C-0.3	---(O)---
DOMESTIC BACKFLOW DEVICE	SDRSD WR-01	---W---(B)---
SAND INTERCEPTOR	PER DETAIL A ON SHEET C-0.1	---SD---(S)---
SIDEWALK UNDERDRAIN	SDRSD D-27	---SD---
DIRECTION OF DRAINAGE		=====
TRENCH RESURFACING	SDRSD G-25	=====

EXISTING IMPROVEMENTS

PCC CURB	=====
CONCRETE PAVING	=====
ELECTRICAL BOX	=====
CATCH BASIN	=====
PLANTER WALL	=====
PUBLIC WATER MAIN	---W---
PUBLIC SEWER MAIN	---S---
UNDERGROUND ELECTRICAL CONDUIT	---E---
PUBLIC STORM DRAIN	=====
PALM TREE	=====
TRANSFORMER	=====
CURB RAMP	=====
SEAT WALL	=====
SURVEY MONUMENT (ARMY CORP OF ENGINEERS) PROTECT IN PLACE	=====

ABBREVIATIONS:

EX	EXISTING
(XX)	EXISTING
FF	FINISHED FLOOR
FG	FINISHED GRADE
FS	FINISHED SURFACE
GB	GRADE BREAK
GR	GRATE ELEVATION
IE	INVERT ELEVATION
PVC	POLYVINYL CHLORIDE PIPE
SDRSD	SAN DIEGO REGIONAL STANDARD DRAWINGS
TW	TOP OF WALL

CIVIL SHEET INDEX

DESCRIPTION	SHEET NO.
CIVIL COVER SHEET	C-0.1
EXISTING CONDITIONS AND DEMOLITION PLAN	C-0.2
PRECISE GRADING AND DRAINAGE PLAN	C-0.3
PRIVATE UTILITY PLAN	C-0.4
EROSION CONTROL PLAN	C-0.5

C-0.1

CITY OF IMPERIAL BEACH, CALIFORNIA  
ENGINEERING DEPARTMENT  
SHEET 4 OF 40 SHEETS

FOR CITY ENGINEER	DATE
DESCRIPTION	BY
APPROVED	DATE
FILMED	
ORIGINAL	
CONTRACTOR	DATE STARTED
INSPECTOR	DATE COMPLETED

SAN DIEGO UNIFIED PORT DISTRICT

DATE 4/14/2025

SPLASH PAD AT PORTWOOD PIER PLAZA

CIVIL COVER SHEET

A/E NO. C-0.1

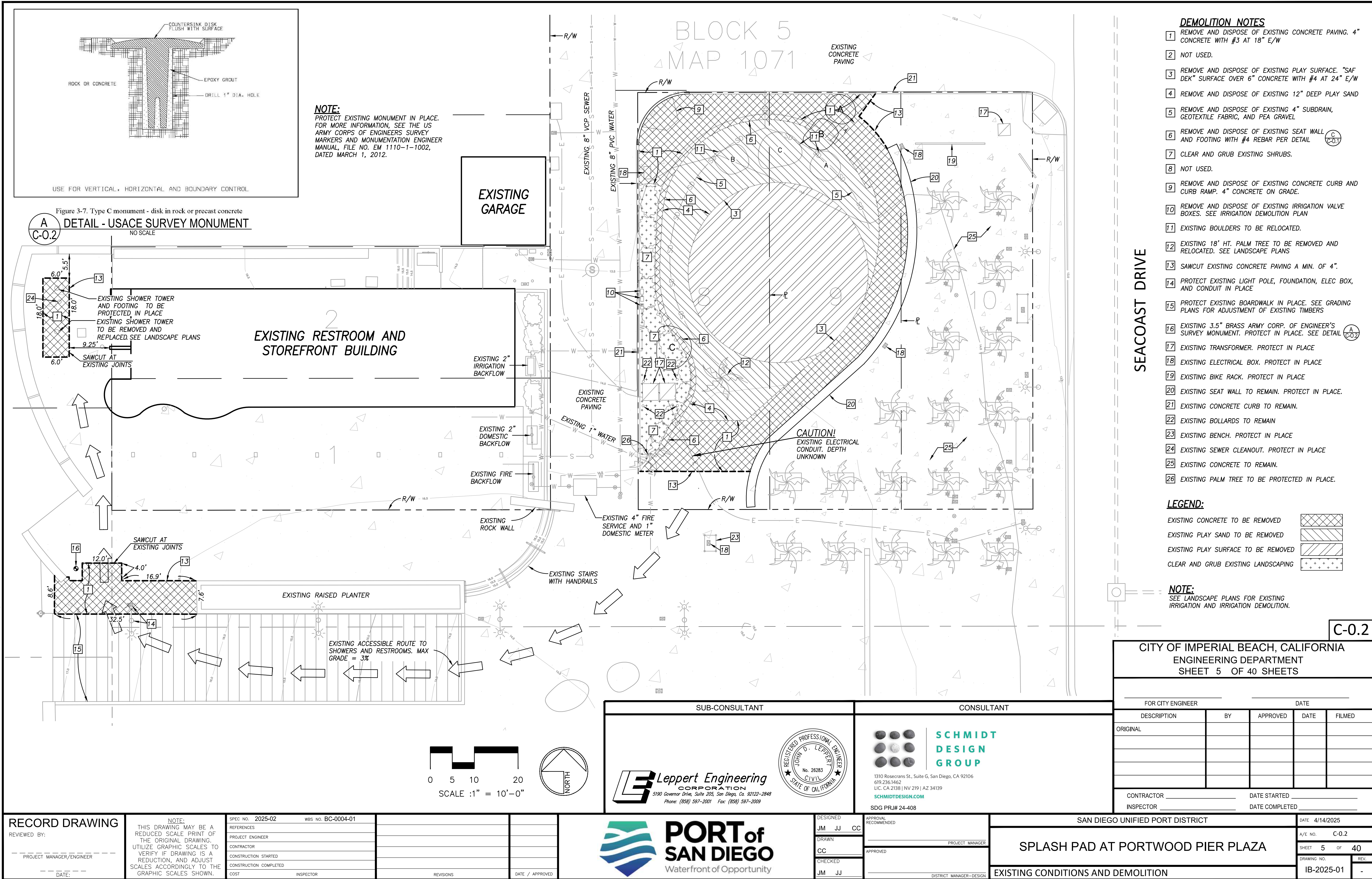
SHEET 4 OF 40

DRAWING NO. IB-2025-01

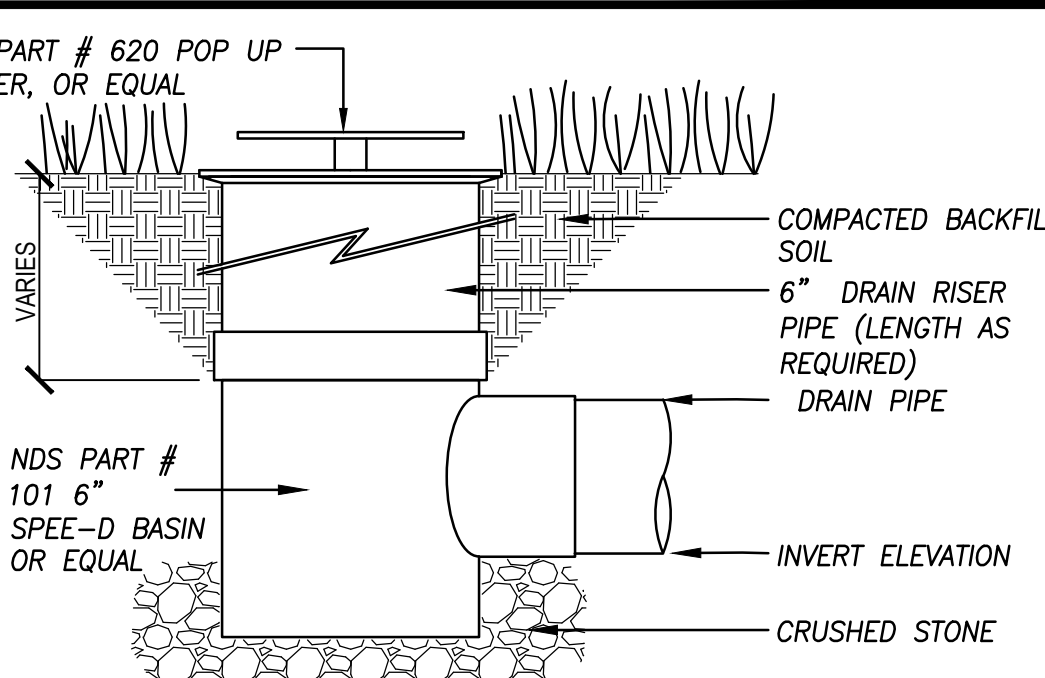
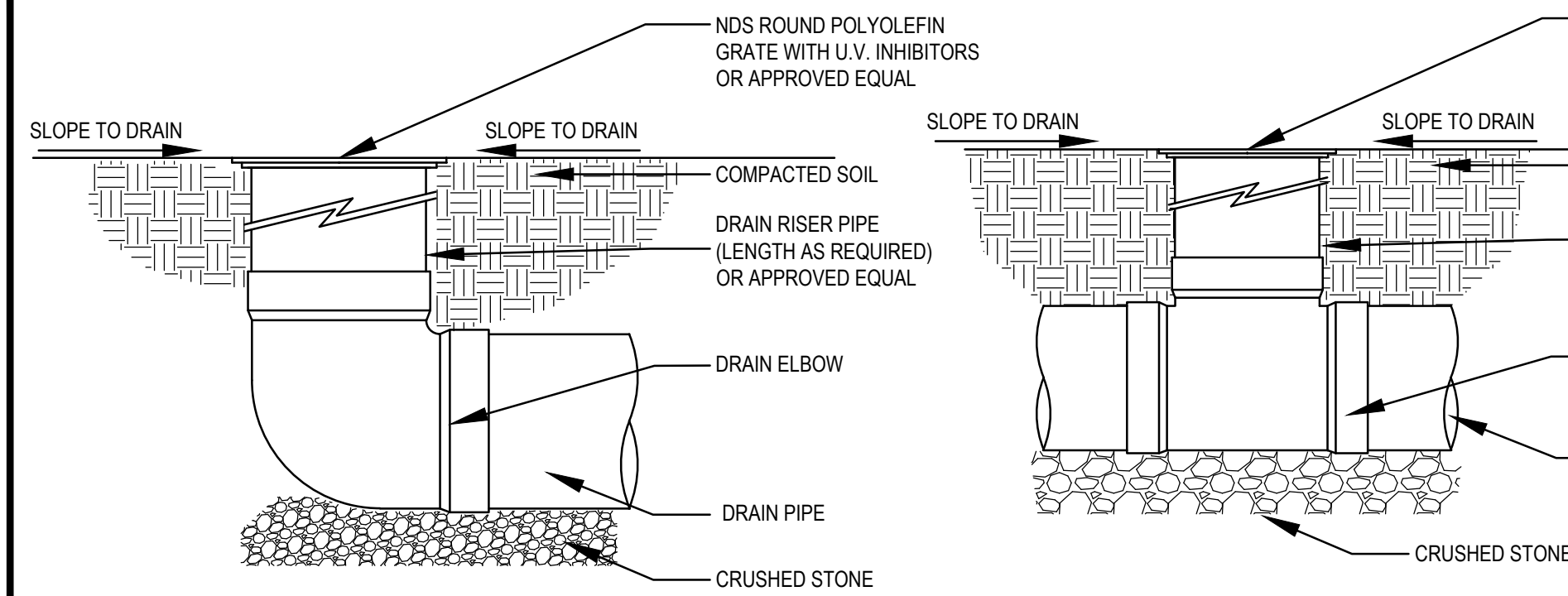
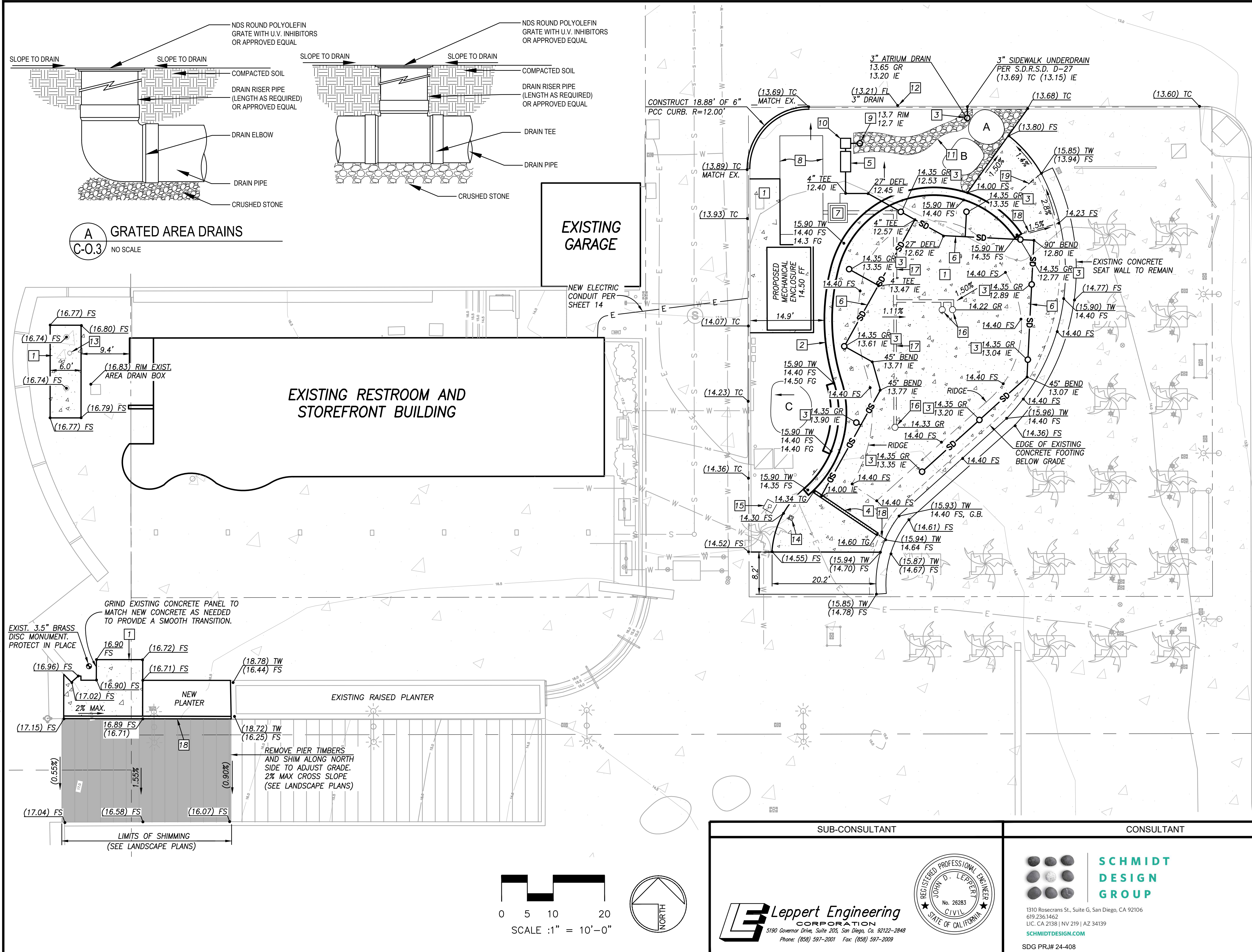
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**B DRAINAGE EMITTER**  
C-0.3 TYPICAL POP-UP DRAINAGE EMITTER

- CONSTRUCTION NOTES (PROPOSED WORK)**
- 1 INSTALL CONCRETE PER SHEET 10
  - 2 INSTALL CONCRETE SEAT WALL PER SHEET 10
  - 3 INSTALL PRIVATE AREA DRAIN PER DETAIL A ON THIS SHEET
  - 4 INSTALL 3" NDS PRO SERIES TRENCH DRAIN OR APPROVED EQUAL PER DETAIL "D" ON SHEET C0.1. GRATE TYPE PER LANDSCAPE ARCHITECT.
  - 5 INSTALL SAND INTERCEPTOR BY JAY R. SMITH MFG. CO. MODEL NO. 8811-50 OR APPROVED EQUAL PER DETAIL "A" ON SHEET C-0.1
  - 6 INSTALL 4" PVC STORM DRAIN AT 1.0% MIN.
  - 7 DEBRIS WASTE CHAMBER PER SHEET 32.
  - 8 UNDERGROUND STORAGE TANK PER SHEET 39
  - 9 INSTALL 6" POP-UP DRAINAGE EMITTER NDS-620, OR EQUAL PER DETAIL B ON THIS SHEET.
  - 10 INSTALL PRECAST SUMP WITH PUMP PER MECHANICAL SPECIFICATIONS.
  - 11 COBBLE CHANNEL PER SHEET 10
  - 12 PLUG EXISTING 3" CURB OUTLET.
  - 13 EXISTING SEWER CLEANOUT. ADJUST TO NEW GRADE
  - 14 FOOT WASH STATION PER DETAIL ON SHEET 11
  - 15 DRYWELL PER DETAIL ON SHEET 11
  - 16 DRAIN BOX PER SHEET 34
  - 17 DRAIN LINE PER SHEET 34
  - 18 CONSTRUCT ZERO HEIGHT CURB PER DETAIL B ON SHEET 4
  - 19 GRADE BREAK

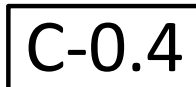
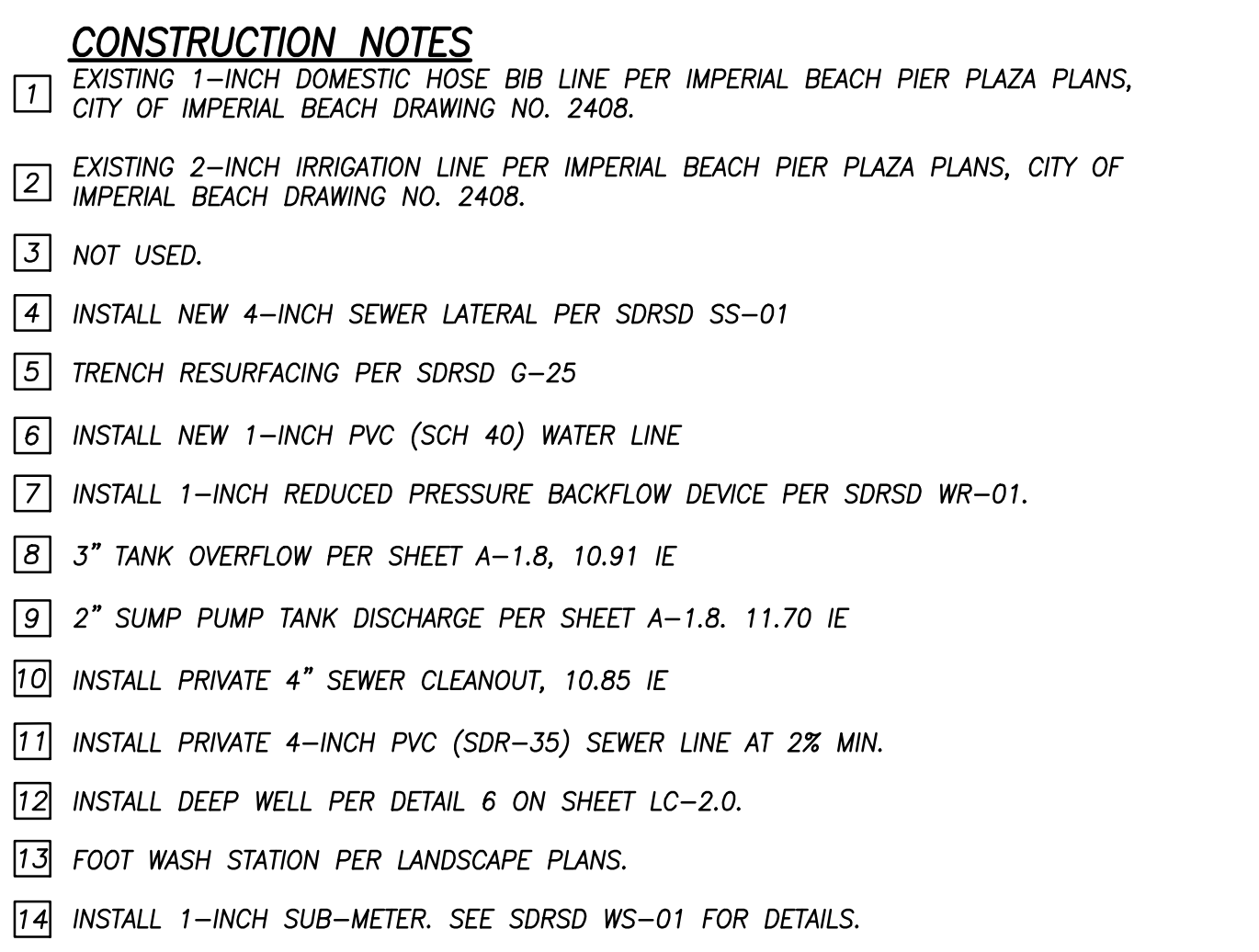
<b>RECORD DRAWING</b>	<b>NOTE:</b> THIS DRAWING MAY BE A REDUCED SCALE PRINT OF THE ORIGINAL DRAWING. UTILIZE GRAPHIC SCALES TO VERIFY IF DRAWING IS A REDUCTION, AND ADJUST SCALES ACCORDINGLY TO THE GRAPHIC SCALES SHOWN.	<b>SPEC. NO. 2025-02</b> REFERENCES PROJECT ENGINEER CONTRACTOR CONSTRUCTION STARTED CONSTRUCTION COMPLETED COST INSPECTOR	<b>WBS NO. BC-0004-01</b>	REVISIONS	DATE / APPROVED
REVIEWED BY: PROJECT MANAGER/ENGINEER					
DATE:					

<b>SUB-CONSULTANT</b>  Leppert Engineering CORPORATION 5190 Governor Drive, Suite 205, San Diego, CA 92122-2848 Phone: (619) 597-2001 Fax: (619) 597-2009		<b>CONSULTANT</b>  SCHMIDT DESIGN GROUP 1310 Rosecrans St., Suite G, San Diego, CA 92106 619.236.1462 LIC. CA 2138   NV 219   AZ 34139 SCHMIDTDESIGN.COM SDG PRJ# 24-408		<b>CITY OF IMPERIAL BEACH, CALIFORNIA</b> ENGINEERING DEPARTMENT SHEET 6 OF 40 SHEETS	
DESIGNED JM JJ CC		APPROVAL RECOMMENDED		DATE 4/14/2025	
DRAWN CC		APPROVED		A/E NO. C-0.3	
CHECKED JM JJ		DISTRICT MANAGER-DESIGN		SHEET 6 OF 40	
				DRAWING NO. IB-2025-01	
				REV.	
				PRECISE GRADING AND DRAINAGE PLAN	







Apr 30, 2025 - 1:55pm M:\Acad\Jobs\IB102\Civil\Plans\IB102 Civil Sheets.dwg





<b>CITY OF IMPERIAL BEACH, CALIFORNIA</b> <b>ENGINEERING DEPARTMENT</b> <b>SHEET 7 OF 40 SHEETS</b>				
_____ FOR CITY ENGINEER		_____ DATE		
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL				
CONTRACTOR _____		DATE STARTED _____		
INSPECTOR _____		DATE COMPLETED _____		
TO UNIFIED PORT DISTRICT			DATE 4/14/2025	
T PORTWOOD PIER PLAZA			A/E NO. C-04	
			SHEET 7 OF 40	
			DRAWING NO. IB-2025-01	
			REV. -	

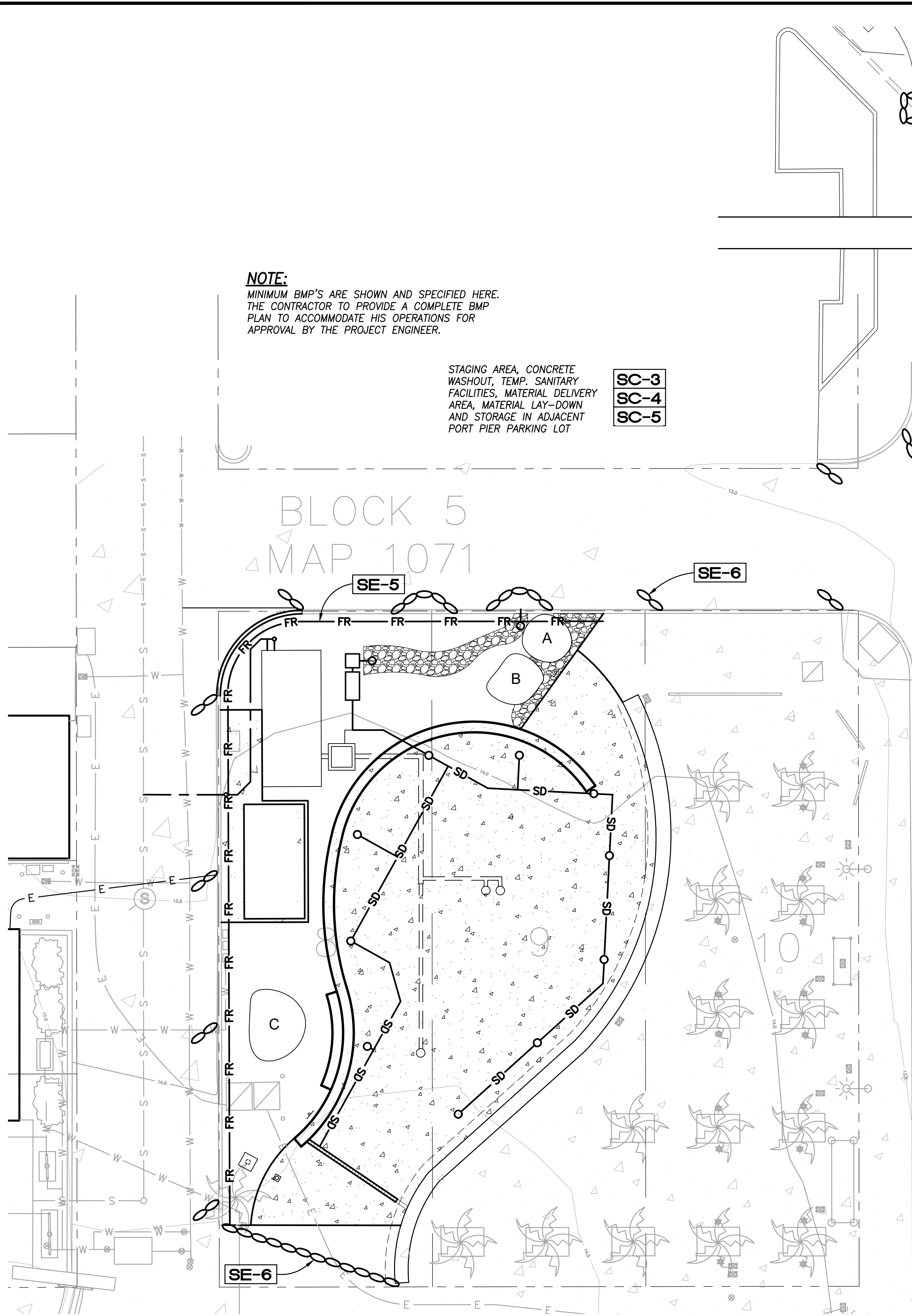
SUB-CONSULTANT	CONSULTANT
<div data-bbox="1429 1689 1749 1757">  <p><b>Leppert Engineering</b> CORPORATION 5190 Governor Drive, Suite 205, San Diego, Ca. 92122-2848 Phone: (858) 597-2001 Fax: (858) 597-2009</p> </div> <div data-bbox="1771 1600 1911 1745">  </div>	<div data-bbox="1964 1600 2231 1745">  <div data-bbox="2094 1600 2231 1673"> <p><b>SCHMIDT DESIGN GROUP</b></p> </div> </div> <div data-bbox="1964 1685 2178 1745"> <p>1310 Rosecrans St., Suite G, San Diego, CA 92106 619.236.1462 LIC. CA 2138   NV 219   AZ 34139 <a href="http://SCHMIDTDESIGN.COM">SCHMIDTDESIGN.COM</a> SDG PR#J 24-408</p> </div>

 <b>PORT of SAN DIEGO</b> Waterfront of Opportunity	DESIGNED	APPROVAL	SAN DIEGO	
	JM JJ CC	RECOMMENDED		
	DRAWN	PROJECT MANAGER		SPLASH PAD AT
	CC	APPROVED		
CHECKED	DISTRICT MANAGER-DESIGN		UTILITY PLAN	
JM JJ				

<h2 style="margin: 0;">RECORD DRAWING</h2> <p>REVIEWED BY:</p> <p>_____</p> <p>PROJECT MANAGER/ENGINEER</p> <p>_____</p> <p>DATE: _____</p>	<p>NOTE:</p> <p>THIS DRAWING MAY BE A REDUCED SCALE PRINT OF THE ORIGINAL DRAWING. UTILIZE GRAPHIC SCALES TO VERIFY IF DRAWING IS A REDUCTION, AND ADJUST SCALES ACCORDINGLY TO THE GRAPHIC SCALES SHOWN.</p>	<p>SPEC. NO. 2025-02      WBS NO. BC-0004-01</p> <p>REFERENCES</p> <p>PROJECT ENGINEER</p> <p>CONTRACTOR</p> <p>CONSTRUCTION STARTED</p> <p>CONSTRUCTION COMPLETED</p> <p>COST      INSPECTOR</p>	<p>REVISIONS</p>	<p>DATE / APPROVED</p>
---	---	---	------------------	------------------------



Apr 17, 2025 - 10:52am M:\actJobs\B102\Civil\Plans\B102 Civil Sheets.dwg



**NOTE:**  
MINIMUM BMP'S ARE SHOWN AND SPECIFIED HERE.  
THE CONTRACTOR TO PROVIDE A COMPLETE BMP  
PLAN TO ACCOMMODATE HIS OPERATIONS FOR  
APPROVAL BY THE PROJECT ENGINEER.

STAGING AREA, CONCRETE  
WASHOUT, TEMP. SANITARY  
FACILITIES, MATERIAL DELIVERY  
AREA, MATERIAL LAY-DOWN  
AND STORAGE IN ADJACENT  
PORT PIER PARKING LOT

SC-3  
SC-4  
SC-5

SEACOAST DRIVE

ELM AVE.

SE-10

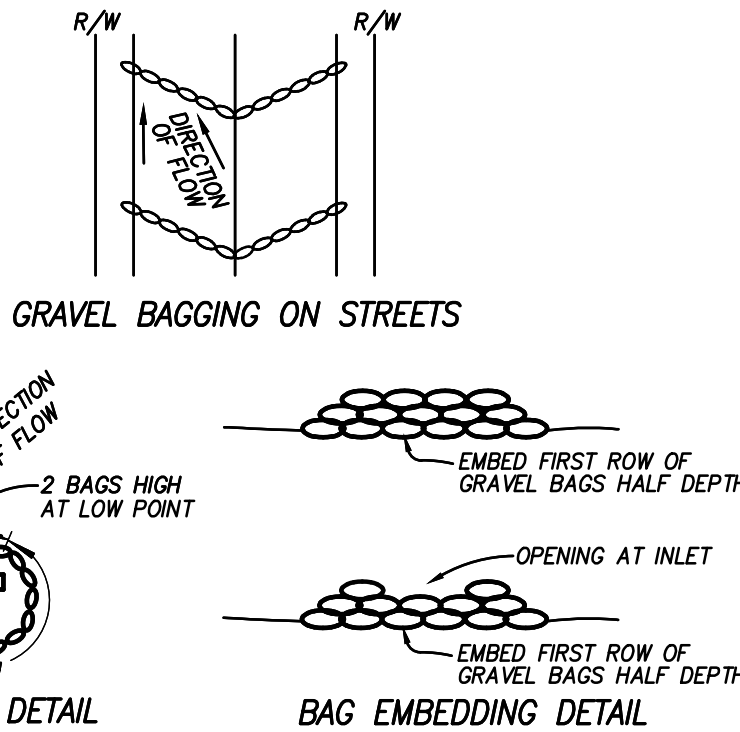
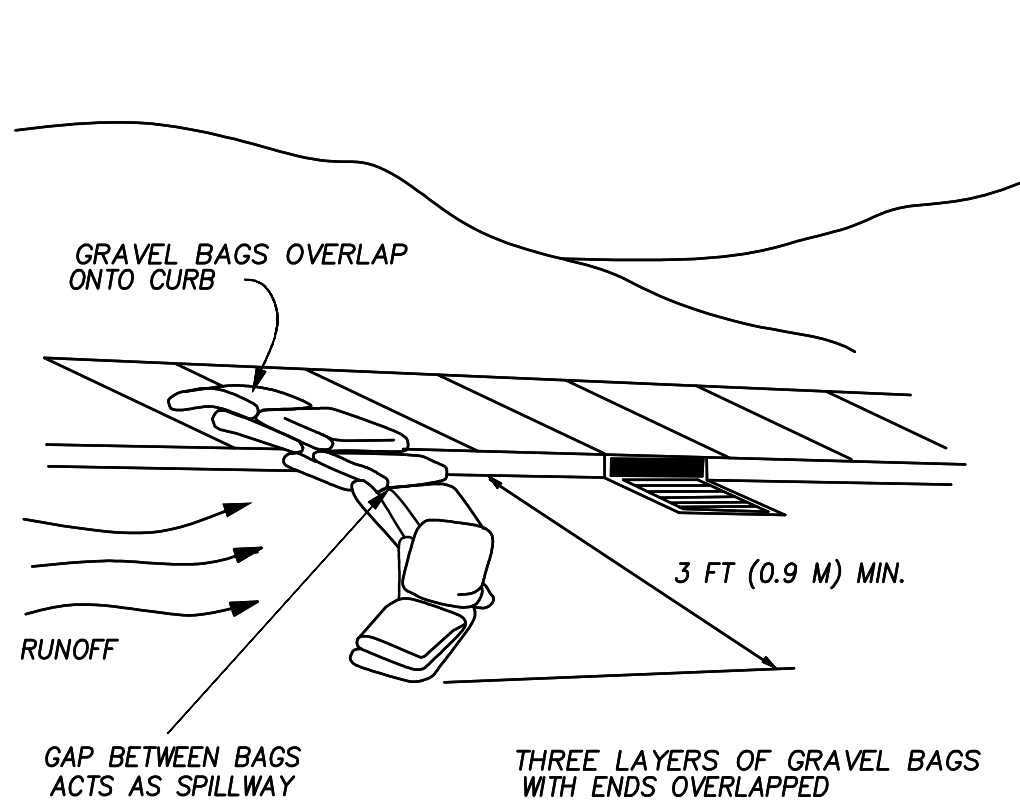
SE-5

SE-6

SE-6

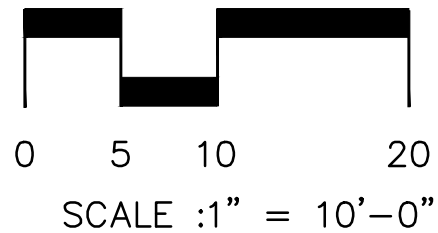
**LEGEND:**

		QUANTITIES
GRAVEL BAGS (SE-6)		40±
FIBER ROLL (SE-5)		130±
GRAVEL BAG CHECK DAM (SE-6)		9±
INLET PROTECTION (SE-10)		1



**GRAVEL BAGS**  
NOT TO SCALE

C-0.5



**RECORD DRAWING**

REVIEWED BY:

PROJECT MANAGER/ENGINEER

DATE:

**NOTE:**  
THIS DRAWING MAY BE A  
REDUCED SCALE PRINT OF  
THE ORIGINAL DRAWING.  
UTILIZE GRAPHIC SCALES TO  
VERIFY IF DRAWING IS A  
REDUCTION, AND ADJUST  
SCALES ACCORDINGLY TO THE  
GRAPHIC SCALES SHOWN.

SPEC NO. 2025-02

WBS NO. BC-0004-01

**REFERENCES**

PROJECT ENGINEER

CONTRACTOR

CONSTRUCTION STARTED

CONSTRUCTION COMPLETED

COST

INSPECTOR

REVISIONS

DATE / APPROVED

**Leppert Engineering**  
CORPORATION  
5190 Governor Drive, Suite 205, San Diego, Ca. 92122-2848  
Phone: (619) 597-2001 Fax: (619) 597-2009



DESIGNED

JM JJ CC

DRAWN

CC

CHECKED

JM JJ

APPROVAL

RECOMMENDED

PROJECT MANAGER

APPROVED

DISTRICT MANAGER-DESIGN

SDG PRJ# 24-408



1310 Rosecrans St., Suite G, San Diego, CA 92106  
619.236.1462  
LIC. CA 2138 | NV 219 | AZ 34139  
SCHMIDTDESIGN.COM

SDG PRJ# 24-408

CONSULTANT

CITY OF IMPERIAL BEACH, CALIFORNIA  
ENGINEERING DEPARTMENT  
SHEET 8 OF 40 SHEETS

FOR CITY ENGINEER

DATE

DESCRIPTION

BY

APPROVED

DATE

FILMED

ORIGINAL

CONTRACTOR

DATE STARTED

INSPECTOR

DATE COMPLETED

SAN DIEGO UNIFIED PORT DISTRICT

DATE 4/14/2025

SPLASH PAD AT PORTWOOD PIER PLAZA

EROSION CONTROL PLAN

A/E NO. C-0.5

SHEET 8 OF 40

DRAWING NO. IB-2025-01

REV. -



May 06, 2025 - 1:18pm - S:\Projects\400-Parks, Municipal\24-408 Splash Pad at Portwood Pier\06-CD's\24-408 S-COM.dwg

CONSTRUCTION LEGEND

SYMBOL	CODE	DESCRIPTION	DETAIL	SYMBOL	CODE	DESCRIPTION	DETAIL
	1A	4" THICK PEDESTRIAN CONCRETE PAVING AT PIER PLAZA. COLOR: TO MATCH EXISTING. FINISH: TO MATCH EXISTING. SEE NOTE #25 FOR MOCKUP REQUIREMENTS.	1,2/LC-2.0		9A	REMOVE AND REPLACE EXISTING SHOWER COLUMN. PROVIDE NEW ADA MODEL: 590 SMSS WITH MARINE GRADE 316 STAINLESS STEEL. COLOR: CHROME. AVAILABLE THROUGH: MOST DEPENDABLE FOUNTAINS OR APPROVED EQUAL. PHONE #: (901) 867-0039. CONTRACTOR TO UTILIZE EXISTING UTILITY CONNECTIONS FOR SHOWER AND VERIFY EXISTING FOOTING SIZE FOR RE-USE. CONTRACTOR TO COORDINATE AND RETURN EXISTING SHOWER COLUMN TO THE PORT OF SAN DIEGO.	3/LC-2.2
	1B	7" THICK VEHICULAR CONCRETE PAVING. COLOR: NATURAL GRAY. FINISH: MEDIUM BROOM	1,2/LC-2.0		9B	EXISTING SHOWER COLUMN TO REMAIN; PROTECT IN PLACE	C-0.2
	1C	EXISTING CONCRETE TO REMAIN; PROTECT IN PLACE	2/LC-2.0		10	SAND TRAP PER CIVIL PLANS	A/ C-0.1
	1D	ENHANCED PEDESTRIAN CONCRETE PAVING WITH 3/8" MINUS AGGREGATE. INTEGRAL COLOR: SPANISH GOLD. FINISH: #5 GRACE TOP CAST. SEE NOTE #25 FOR MOCKUP REQUIREMENTS.	A-1.4 - A-1.5		11	TRENCH DRAIN PER CIVIL PLANS	C-0.3
	1E	ENHANCED PEDESTRIAN CONCRETE PAVING WITH 3/8" MINUS AGGREGATE. INTEGRAL COLOR: PEWTER. FINISH: #15 GRACE TOP CAST. SEE NOTE #25 FOR MOCKUP REQUIREMENTS.	A-1.4 - A-1.5		12A	6" CONCRETE CURB PER CIVIL PLANS	C-0.3
	1F	ENHANCED PEDESTRIAN CONCRETE 'SURFBOARD' WITH INTEGRALLY MIXED 1/4"-1/2" ARIZONA RIVER ROCK FROM DECORATIVE STONE SOLUTIONS OR APPROVED EQUAL. INTEGRAL COLOR: PEWTER. FINISH: #15 GRACE TOP CAST. SEE NOTE #25 FOR MOCKUP REQUIREMENTS.	A-1.4 - A-1.5, 3/LC-2.1		12B	6" WIDE FLUSH CONCRETE CURB PER CIVIL PLANS	B/ C-0.1
	1G	CONCRETE PAD FOR MECHANICAL ENCLOSURE.	A-1.15		13	RELOCATE (3) THREE EXISTING BOULDERS FROM EXISTING SAND PLAY AREA AS SHOWN	2/LC-2.2
	2A	EXPANSION JOINT	3/LC-2.0		14	ADJUST TIMBER PIERS TO MAINTAIN A MAXIMUM CROSS SLOPE TO 2%. DO NOT GRIND PIER TIMBERS. CONTRACTOR TO REMOVE AND SHIM TIMBERS WITH PRESSURE TREATED SHIMS TO MEET NEW CONCRETE AT GRADE. CONTRACTOR TO SECURE WITH EXISTING ANCHORAGE POINTS. SEE DETAIL 5/L1.4 OF IMPERIAL BEACH PIER PLAZA PLANS, CITY OF IMPERIAL BEACH DRAWING NO. 2408	2/LC-2.1
	2B	SCORE JOINT	3/LC-2.0		15	'DO NOT DRINK' SIGN FOR SPLASH PAD	4/LC-2.0
	3	4"-8" ANGULAR COBBLE. TYPE: BODIE RUBBLE. AVAILABLE THROUGH DECORATIVE STONE SOLUTIONS OR APPROVED EQUAL. PH: (800) 699-1878	5/LC-2.0		16	EXISTING STAIRS AND HANDRAILS TO REMAIN; PROTECT IN PLACE	
	4A	18" WIDE CAST IN PLACE CONCRETE SEAT WALL. INTEGRAL COLOR: TO MATCH EXISTING. FINISH: MEDIUM SANDBLAST TO MATCH EXISTING.	4/LC-2.1		17	EXISTING UTILITIES TO REMAIN; PROTECT IN PLACE. SEE CIVIL PLANS	
	4B	18" WIDE CAST IN PLACE CONCRETE STEPPED SEAT WALL. INTEGRAL COLOR: TO MATCH EXISTING. FINISH: MEDIUM SANDBLAST TO MATCH EXISTING.	1/LC-2.2		18	EXISTING BOARDWALK TO REMAIN; PROTECT IN PLACE	
	5A	SPLASH PAD WITH AT-GRADE JETS PER AQUATIC PLANS	A-1.3		19	EXISTING CONCRETE CURB TO REMAIN; PROTECT IN PLACE	
	5B	SPLASH PAD MECHANICAL ENCLOSURE - 16'L X 8'-5"W X 9'-4"HT PER AQUATIC PLANS	A-1.12, A-1.15		20	EXISTING BRASS DISC MONUMENT; PROTECT IN PLACE	C-0.2
	5C	SPLASH PAD VAULT - 19'-2"L X 8'-4"W BELOW GRADE PER AQUATIC PLANS	A-1.13		21	EXISTING LIGHT FIXTURE TO REMAIN; PROTECT IN PLACE	
	5D	SPLASH PAD DEBRIS CHAMBER AND DIVERTER VALVE PER AQUATIC PLANS	A-1.6		22	EXISTING PALM TREES TO REMAIN; PROTECT IN PLACE	
	5E	SPLASH PAD FOOT ACTIVATORS PER AQUATIC PLANS	A-1.3		23	EXISTING BIKE RACK TO REMAIN; PROTECT IN PLACE	
	6A	SPLASH PAD AREA DRAINS PER AQUATIC PLANS	A-1.8		24	EXISTING PLANTER WALL TO REMAIN; PROTECT IN PLACE	
	6B	AREA DRAINS PER CIVIL PLANS	C-0.3		25	EXISTING SEAT WALL WITH ART TO REMAIN; PROTECT IN PLACE	
	7	FOOT WASH STATION. MODEL #: 525SMSS FOOT TOWER. COLOR: CHROME. AVAILABLE THROUGH: MOST DEPENDABLE FOUNTAINS OR APPROVED EQUAL. PHONE #: (901) 867-0039	1/LC-2.1		26	EXISTING SEA WALL TO REMAIN; PROTECT IN PLACE	
	8	FOOT WASH DEEP WELL	6/LC-2.0	PA	PA	PLANTING AREA	

ADDITIVE ALTERNATE LEGEND

CODE	DESCRIPTION	CODE	DESCRIPTION
27A	ADDITIVE ALTERNATE #1: MECHANICAL ENCLOSURE ART - PROVIDE DIGIFUSE ART PANELS WITH SURF-THEMED GRAPHICS IN LIEU OF STANDARD POWDERCOATED PANELS. QUANTITY: 8 PANELS. GRAPHICS TO BE PROVIDED BY THE LANDSCAPE ARCHITECT.	28A	ADDITIVE ALTERNATE #2: INTEGRATED JET LIGHTING. ED LIGHTED JETS WITH MULTICOLOR SETTINGS AND DMX CONTROL. SEE SHEET 35.

CONSTRUCTION NOTES:

1. UNLESS SPECIFIED OTHERWISE, LANDSCAPE CONSTRUCTION AND LAYOUT WORK INCLUDES, BUT IS NOT LIMITED TO THE LOCATION, PLACEMENT AND DETAILING OF THE PAVING, CAST IN PLACE CONCRETE WALLS, AND CONSTRUCTION OF THE SPLASH PAD
2. SEE ENGINEER'S PLAN FOR SITE DRAINAGE AND GRADING, FINISH GRADING, SITE UTILITY LAYOUT AND CONSTRUCTION.
4. DIMENSIONS INDICATED ON PLANS SHALL PREVAIL OVER PLAN SCALE. DIMENSIONS ARE TO FACES OF, AND PERPENDICULAR TO THE FACE OF BUILDING WALLS UNLESS SHOWN OTHERWISE. ALL ANGLES AND CONNECTIONS ARE (90) DEGREES UNLESS NOTED OTHERWISE. WALKS CONNECTING DOORS ARE TO BE ALIGNED WITH FACE OF BUILDING UNLESS NOTED OTHERWISE.
5. ALL COORDINATE POINTS AND DIMENSIONS ARE TAKEN FROM THE FACE OF CURB UNLESS OTHERWISE NOTED.
6. EXPANSION JOINTS SHALL BE AS LOCATED ON THE PLANS AND WHERE CONCRETE MEETS EXISTING WALLS, BUILDINGS, OR OTHER HARD SURFACES. EXPANSION JOINTS SHALL BE SEALED TO PREVENT MOISTURE SEEPAGE AFTER CURING. EXPANSION JOINTS ON WALKS TO BE A MAXIMUM OF 30'-0" ON CENTER. FIBER EXPANSION JOINTS SHALL BE AS LOCATED ON PLANS AND WHERE NEW CONCRETE EXPANSION JOINTS MEETS ADJACENT HARD SURFACES SUCH AS EXISTING CONCRETE OR WALLS. ALL FIBER EXPANSION JOINTS SHALL BE SEALED.
7. CONSTRUCT EXPANSION, WEAKENED-PLANE (CONTRACTION) AND CONSTRUCTION JOINTS IN ACCORDANCE WITH SPECIFICATION SECTION 32 13 13 'CONCRETE PAVING.'
8. ALL CONCRETE SHALL BE A MINIMUM STRENGTH OF 2500 PSI AT 28 DAYS FOR SIDEWALKS. FINISH SHALL BE AS NOTED ON PLANS.
9. CONCRETE PAVING SHALL HAVE FINISHED GRADES SMOOTHED TO ELIMINATE PUDDLING OR STANDING WATER. ALL FINISH SURFACES SHALL MAINTAIN A MAXIMUM SLOPE OF 2% AWAY FROM BUILDINGS AND WALLS INTO DRAINAGE STRUCTURES OR TO STREET. CONTRACTOR SHALL NOTIFY THE PORT OF SAN DIEGO OF ANY CONFLICTS MAINTAINING DRAINAGE.
10. SCORE JOINTS SHALL BE AS SHOWN ON THE PLANS OR SET ON TYPICAL ON CENTER SPACING AND ALIGN WITH BUILDING EDGES.
11. LAYOUT POINTS OF ALL RADIUS SHALL BE CONNECTED BY SMOOTH EVEN LINES TO CREATE THE CURVED CONFIGURATION AS SHOWN ON THE PLANS.
12. SEE IRRIGATION PLANS FOR SLEEVE LOCATIONS PRIOR TO CONSTRUCTION.
13. NO DEVIATIONS FROM PLANS SHALL OCCUR WITHOUT APPROVAL OF THE LANDSCAPE ARCHITECT.
14. ANY PROPOSED WORK THAT IS INCONSISTENT WITH COMMON, SAFE CONSTRUCTION PRACTICES SHALL BE BROUGHT TO THE ATTENTION OF THE PORT OF SAN DIEGO PRIOR TO COMMENCING WITH CONSTRUCTION.
15. CONTRACTOR SHALL VISIT SITE AND VERIFY ALL FIELD CONDITIONS PRIOR TO BEGINNING CONSTRUCTION.
16. CONTRACTOR SHALL REVIEW PLANS AND DETAILS TO ASCERTAIN LOCATIONS NECESSARY TO PROVIDE ELECTRICAL CONNECTIONS TO POWER IRRIGATION, LIGHTING, ETC.
17. CONTRACTOR SHALL DETERMINE THE LOCATION AND DEPTH OF ALL SITE UTILITIES PRIOR TO CONSTRUCTION. NOTIFY THE PORT OF SAN DIEGO OF ANY DISCREPANCIES IMMEDIATELY.
18. CONTRACTOR SHALL SECURE ALL PERMITS AND PAY ALL APPLICABLE FEES TO CONSTRUCT THE PLANS HEREIN.
19. THE CONTRACTOR SHALL HAVE ENGINEER OF WORK OR LANDSCAPE ARCHITECT VERIFY ALL CONSTRUCTION STAKING LOCATIONS PRIOR TO INSTALLATION OF CONCRETE PAVING.
20. THE CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION STAKING AND RE-STAKING REQUIRED TO COMPLETE THE PROJECT.
21. ALL HARDWARE SUCH AS NAILS, BOLTS, FASTENERS ETC. SHALL BE HOT DIPPED GALVANIZED UNLESS OTHERWISE NOTED.
22. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES AS NECESSARY.
23. ALL VERTICAL SURFACES, UNLESS NOTED OTHERWISE, SHALL RECEIVE A COAT OF GRAFFITI RESISTANT COATING.
24. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR LANDSCAPE ARCHITECTS REVIEW AND APPROVAL FOR DETAILS AS NOTED ON THE PLANS AND SPECIFICATIONS.
25. CONTRACTOR SHALL PROVIDE MINIMUM 2'X2' MOCKUPS OF ALL CONCRETE PAVING. MOCKUPS FOR ENHANCED CONCRETE PAVING SHALL INCLUDE GRACE TOP CAST #5, #15, AND #25. MOCKUPS FOR MATCHING EXISTING CONCRETE SHALL INCLUDE COLOR MATCHES, AND FINISHES TO INCLUDE LIGHT SAND BLAST AND GRACE TOP CAST #5. FINAL SELECTION TO BE REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT.
26. CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY CLEANUP OF THE SITE AND PROVIDING ADEQUATE SAFETY MEASURES DURING CONSTRUCTION ON A 24 HOUR BASIS.
27. ANY CREDITS AND/OR DEBITS SHALL BE REPORTED TO LANDSCAPE ARCHITECT AT TIME OF OCCURRENCE FOR PROPER VERIFICATION AND/OR APPROVAL PRIOR TO COMMENCEMENT OF RESULTING ACTION.
28. CONTRACTOR SHALL PROVIDE A 24 HOUR PHONE NUMBER AVAILABLE IN CASE OF EMERGENCY.

AMERICANS WITH DISABILITIES NOTES

1. ALL SLOPES SHOWN ON THIS PLAN WERE DESIGNED AT OR BELOW MAXIMUMS ALLOWED BY THE AMERICANS WITH DISABILITIES ACT ACCESS GUIDE (A.D.A.A.G.). IN ORDER TO ALLOW FOR CONSTRUCTION TOLERANCES. IT IS THE CONTRACTORS RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH A.D.A.A.G. AND IN THE EVENT THAT A DESIGN QUESTION SHOULD ARISE, OR A FIELD CONDITION PRESENTS ITSELF THAT IS DIFFERENT THAN SHOWN ON THESE PLANS, WORK SHOULD CEASE AND THE ENGINEER BE NOTIFIED SO THAT AN ACCEPTABLE SOLUTION CAN BE DETERMINED.
2. THE CONTRACTOR IS ADVISED TO CAREFULLY CHECK ALL PHASES OF WORK RELATING TO A.D.A.A.G. ACCESS FOR THIS PROJECT. SINCE THE CODE DOES NOT ALLOW FOR A CONSTRUCTION TOLERANCE, AND CONSTRUCTION THAT EXCEEDS MAXIMUM OR MINIMUM DIMENSIONS AND SLOPES AS CALLED OUT BY A.D.A.A.G. ARE SUBJECT TO REJECTION BY THE PORT DISTRICT AND ANY OTHER AUTHORITY OR OTHER AFFECTED PARTIES, AND MAY BE REQUIRED TO BE MOVED AND REPLACED.
3. SINCE THE CIVIL ENGINEER OR SURVEYOR CANNOT CONTROL THE EXACT METHODS OR MEANS USED BY THE GENERAL CONTRACTOR OR THEIR SUBCONTRACTOR DURING GRADING AND CONSTRUCTION OF THE PROJECT, THE CIVIL ENGINEER ASSUMES NO RESPONSIBILITY FOR FINAL ACCEPTANCE OF A.D.A.A.G. RELATED ITEMS OF THIS PROJECT BY THE PORT DISTRICT, ANY OTHER AUTHORITY OR OTHER AFFECTED PARTIES.

ADDITIVE ALTERNATE LEGEND CONTINUED

CODE	DESCRIPTION
29A	ADDITIVE ALTERNATE #3: LITHOCRETE PAVING SUBSTITUTION. AVAILABLE THROUGH T.B. PENICK & SONS OR APPROVED EQUAL. COLOR TO BE SPANISH GOLD. HAND SEEDED WITH 1/16" MINUS AGGREGATES: 33% MICA, 33% GLASS, 33% MIXTURE OF ABALONE & GOLDEN PYRITE.
30A	ADDITIVE ALTERNATE #3: LITHOCRETE PAVING SUBSTITUTION. AVAILABLE THROUGH T.B. PENICK & SONS OR APPROVED EQUAL. COLOR TO BE PEWTER. HAND SEEDED WITH 1/16" MINUS AGGREGATES: 33% MICA, 33% GLASS, 33% MIXTURE OF ABALONE & GOLDEN PYRITE.

RECORD DRAWING

REVIEWED BY:

PROJECT MANAGER/ENGINEER

DATE:

NOTE:  
THIS DRAWING MAY BE A REDUCED SCALE PRINT OF THE ORIGINAL DRAWING. UTILIZE GRAPHIC SCALES TO VERIFY IF DRAWING IS A REDUCTION, AND ADJUST SCALES ACCORDINGLY TO THE GRAPHIC SCALES SHOWN.

SPEC. NO. 2025-02

WBS NO. BC-0004-01

REFERENCES

PROJECT ENGINEER

CONTRACTOR

CONSTRUCTION STARTED

CONSTRUCTION COMPLETED

COST

INSPECTOR

REVISIONS

DATE / APPROVED



DESIGNED

JM JJ CC

DRAWN

CC

CHECKED

JM JJ

APPROVAL

RECOMMENDED

PROJECT MANAGER

APPROVED

DISTRICT MANAGER-DESIGN

SAN DIEGO UNIFIED PORT DISTRICT

DATE 5/5/2025

SPLASH PAD AT PORTWOOD PIER PLAZA

LANDSCAPE CONSTRUCTION LEGEND AND NOTES

A/E NO. LC-1.0

SHEET 9 OF 40

DRAWING NO.

IB-2025-01

REV. -

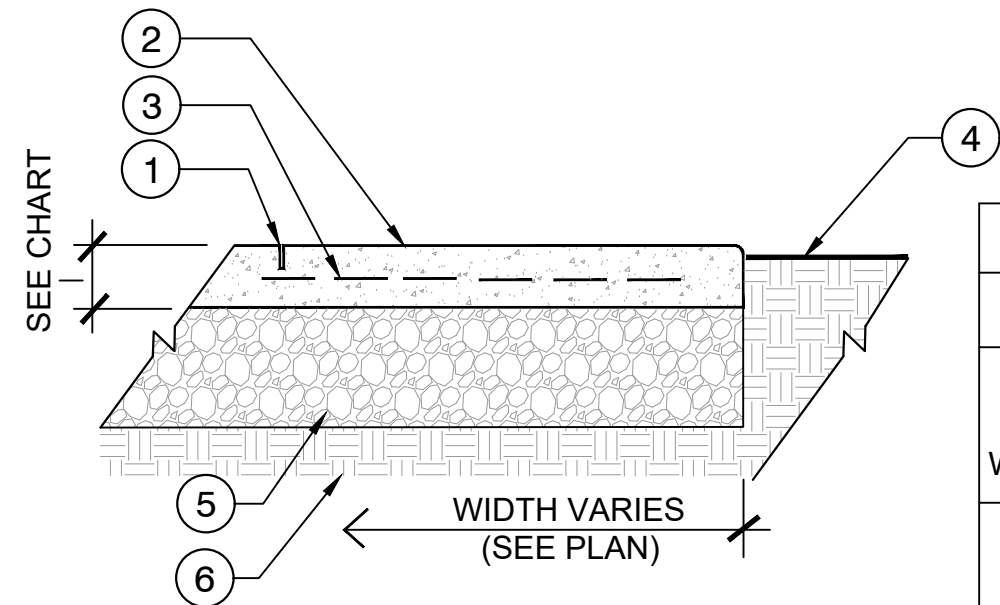






NOTES:

- A. AT A MINIMUM PROVIDE THE FOLLOWING:  
SIDEWALKS: SCORE JOINTS @ 5' O.C.  
EXPANSION JOINTS @ 30' O.C.  
SLABS: SCORE JOINTS @ 10' O.C.  
EXPANSION JOINTS @ 30' O.C.
- B. CONCRETE COLOR AND FINISH PER PLAN.
- C. CONTRACTOR TO FOLLOW RECOMMENDATIONS OF GEOTECH REPORT AND/OR STRUCTURAL ENGINEER.
- D. ALL SURFACE, SUBBASE, AND SUBGRADE THICKNESSES AND COMPACTION PERCENTAGES ARE SUBJECT TO CHANGE IN CONFORMANCE WITH FINAL GEOTECH REPORT.



SECTION:

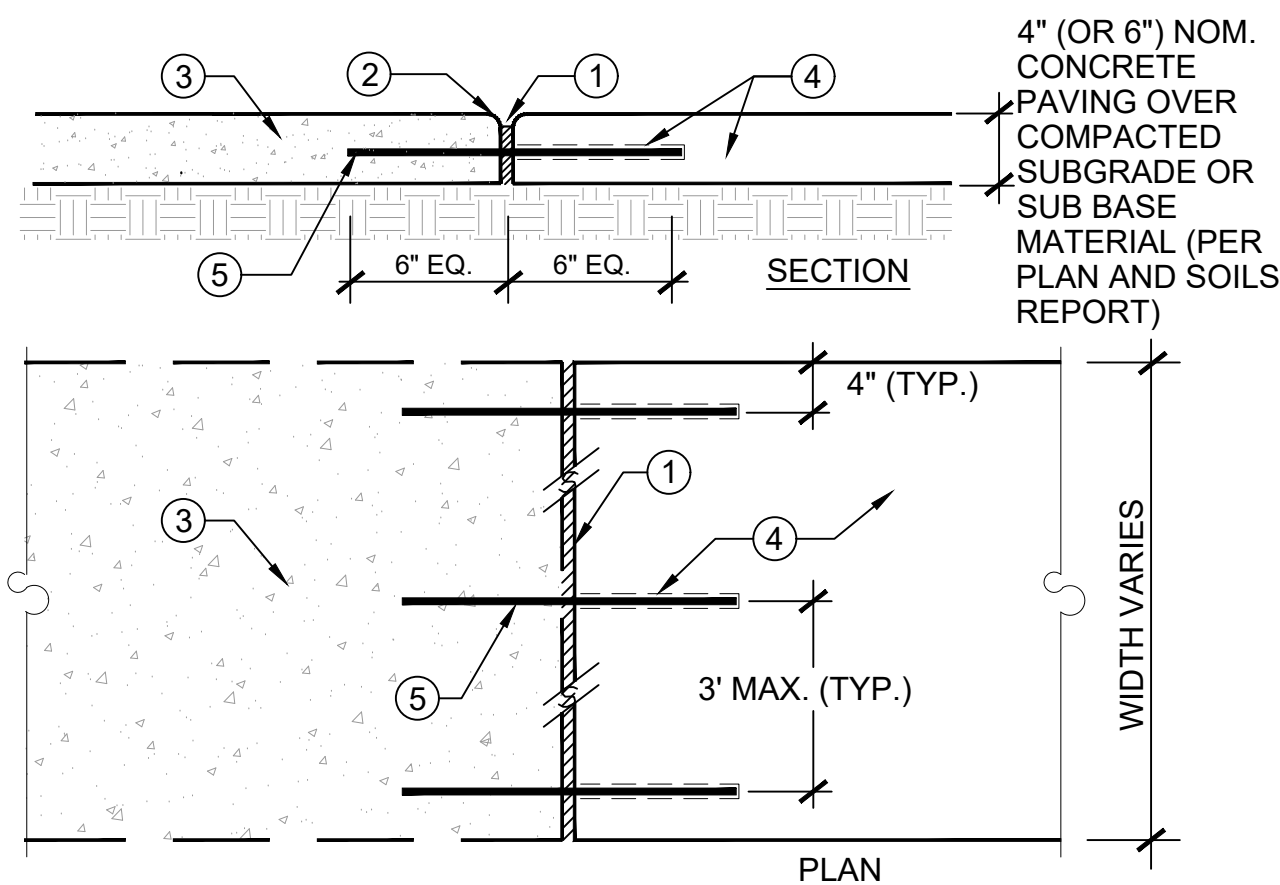
1 CONCRETE PAVING

NOT TO SCALE

LEGEND:

- 1 SCORE JOINTS AND EXPANSION JOINTS, SPACING PER NOTES.
- 2 CONCRETE PAVING, PER CONSTRUCTION LEGEND. SEE PAVING CHART
- 3 CONCRETE REINFORCEMENT PER PAVING CHART
- 4 FINISH GRADE - 1" BELOW EDGE OF PAVING IN TURF AREAS TO HAVE SOD, 2" IN SHRUB BEDS
- 5 CLASS II BASE. SEE PAVING CHART
- 6 NATIVE SUBGRADE; SCARIFY THE UPPER 12" OF SUBGRADE AND COMPACT EXISTING SOIL TO 95% PER GEOTECH REPORT

CONCRETE PAVING CHART			
TYPE	THICKNESS	STRENGTH	REBAR
PEDESTRIAN CONCRETE WALKS & SLABS	4" MIN. OVER NATIVE	520-C-2500	#3 BAR AT 18" O.C. BOTH WAYS
VEHICULAR CONCRETE	7" MIN. OVER 6" CLASS II BASE	520-C-4000	#4 BAR AT 18" O.C. BOTH WAYS

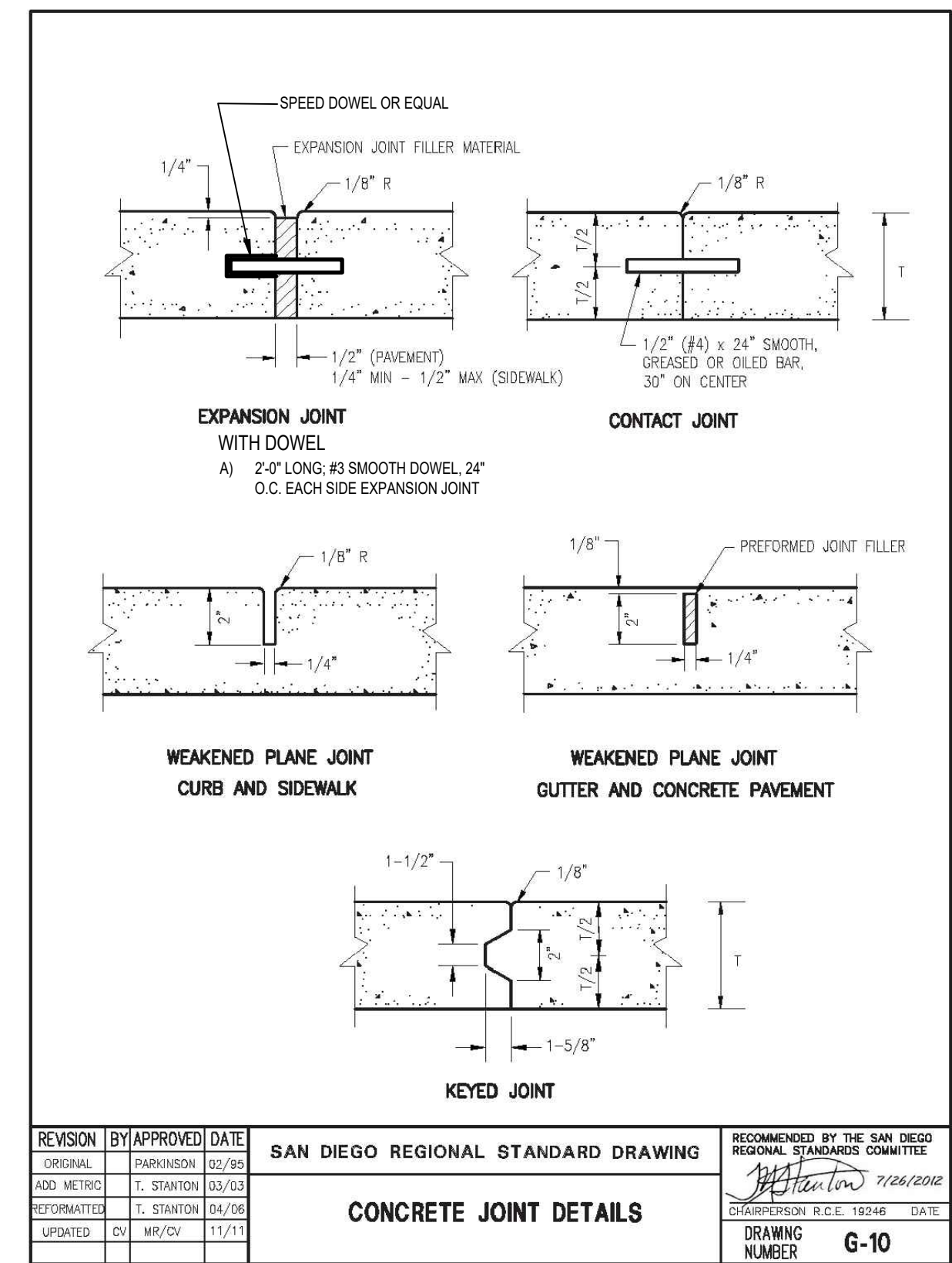


LEGEND:

- 1 COLD JOINT OR EXPANSION JOINT PER PLAN
- 2 TOOLED EDGES TO MATCH EXISTING
- 3 EXISTING CONCRETE.
- 4 NEW CONCRETE PER PLAN. INSTALL SLEEVE WHERE DOWEL OCCURS.
- 5 12" LENGTH 1/2" SMOOTH STEEL DOWEL. FOR EXISTING CONCRETE, DRILL AND GROUT INTO EXISTING AT CENTERLINE, TYP.

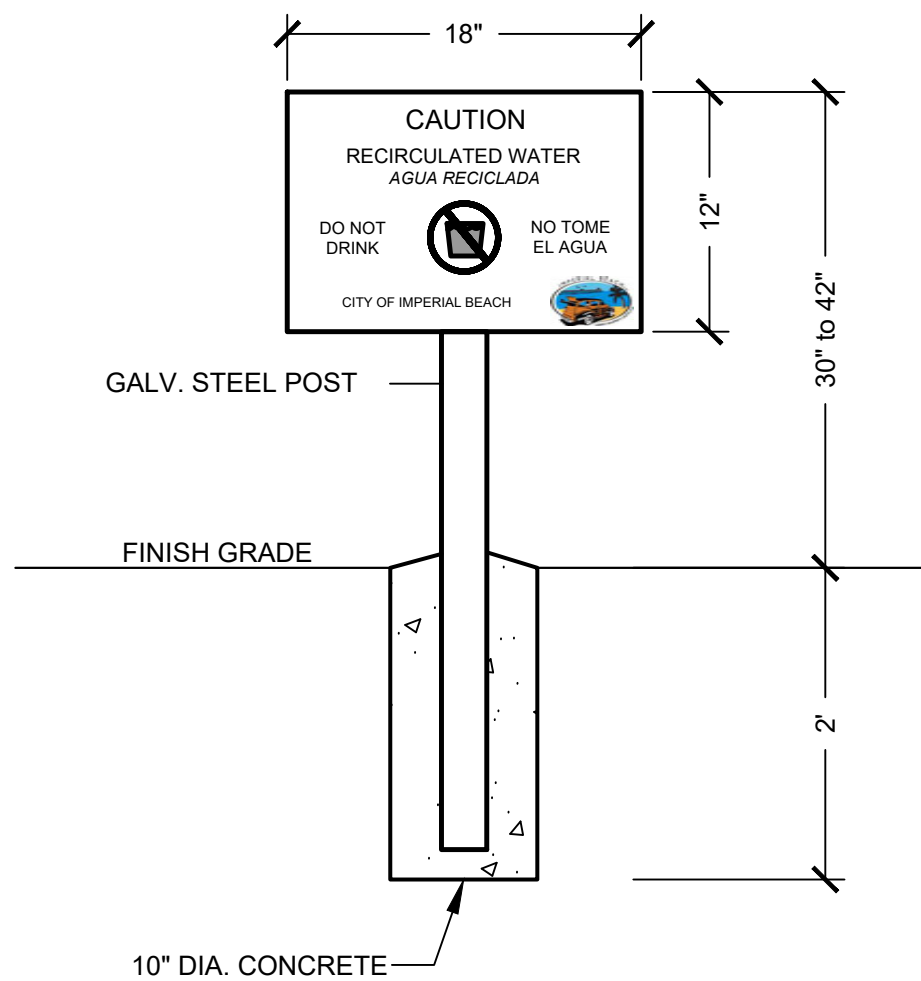
2 CONCRETE PAVING CONNECTION (EXIST TO NEW)

NO SCALE



3 CONCRETE JOINT DETAILS (G-10) - MODIFIED

NO SCALE

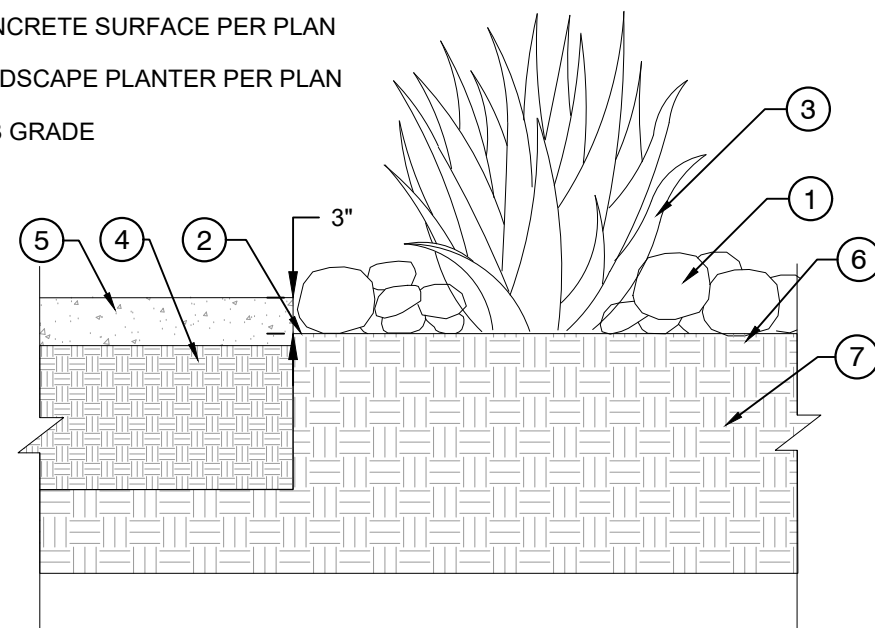


4 DO NOT DRINK SIGN - SPLASH PAD

NO SCALE

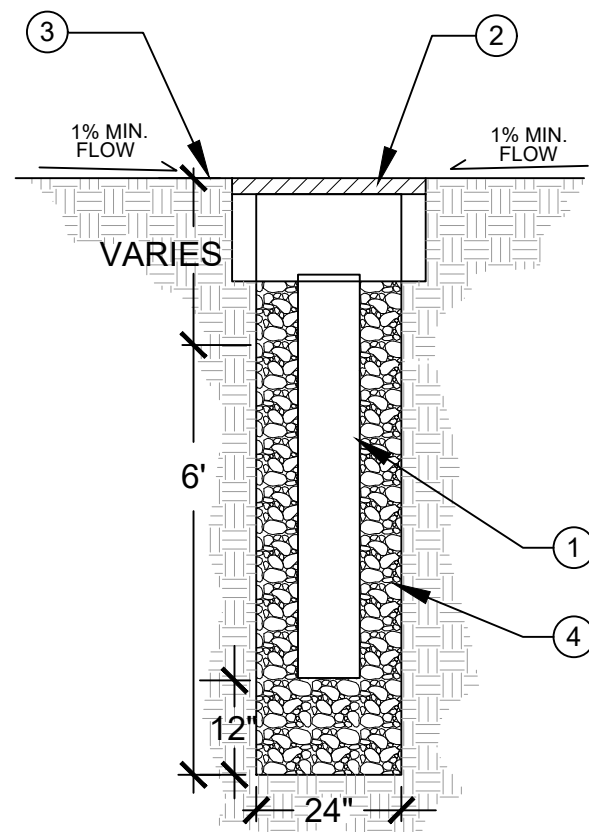
LEGEND:

- 1 COBBLE STONE MULCH PER PLANS.
- 2 FINISH GRADE OF PLANTER BED SHALL BE 3" LOWER THAN ADJACENT CONCRETE SURFACE.
- 3 SHRUBS PER PLAN
- 4 COMPACTED NATIVE SOIL PER GEOTECHNICAL REPORT
- 5 CONCRETE SURFACE PER PLAN
- 6 LANDSCAPE PLANTER PER PLAN
- 7 SUB GRADE



5 COBBLE MULCH

NO SCALE

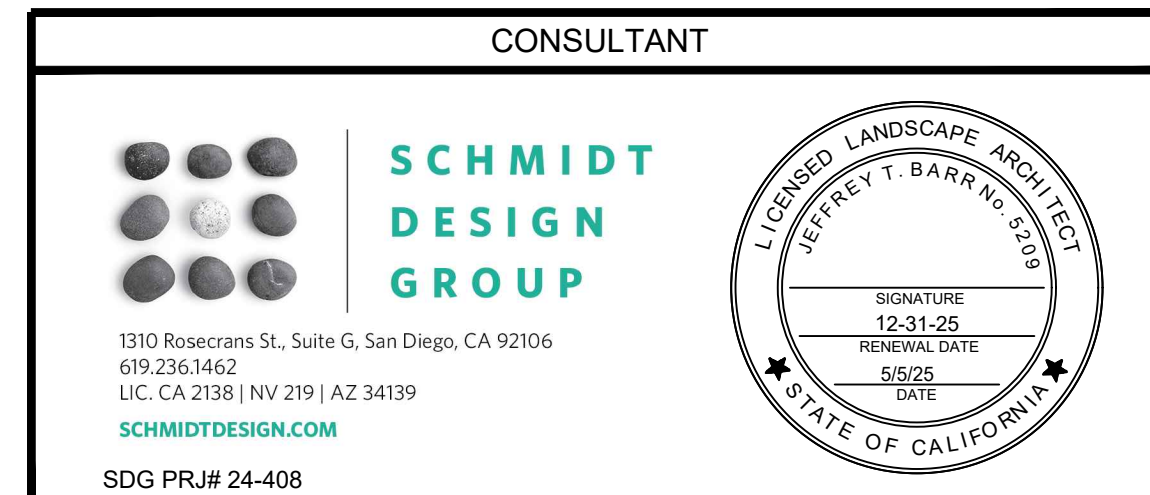


LEGEND:

- 1 8" PERFORATED PVC PIPE. SET BOX OVER DEEP WELL. FILL WITH 3/4" DRAIN ROCK TO TOP OF PIPE. - DO NOT FILL IN PIPE
- 2 24" SQUARE CONCRETE CLEAN OUT BOX WITH ADA COMPLIANT DRAIN GRATE BY IRONSMITH. MODEL NO. 9053DR-24 OR APPROVED EQUAL. NO GREATER THAN 1/2" MAX. GRATE OPENINGS IN ALL DIRECTIONS
- 3 FINISH GRADE PER PLAN
- 4 3/4" CRUSHED GRAVEL - DRAIN ROCK

6 DEEP WELL

NO SCALE



CITY OF IMPERIAL BEACH, CALIFORNIA ENGINEERING DEPARTMENT SHEET 11 OF 40 SHEETS				
FOR CITY ENGINEER		DATE		
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	SDG			
CONTRACTOR		DATE STARTED		
INSPECTOR		DATE COMPLETED		

RECORD DRAWING

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SPEC NO: 2025-02 WBS NO: BC-0004-01  
REFERENCES  
PROJECT ENGINEER  
CONTRACTOR  
CONSTRUCTION STARTED  
CONSTRUCTION COMPLETED  
COST INSPECTOR

REVISIONS

DATE / APPROVED



DESIGNED  
JIM JJ CC  
DRAWN  
CC  
CHECKED  
JIM JJ

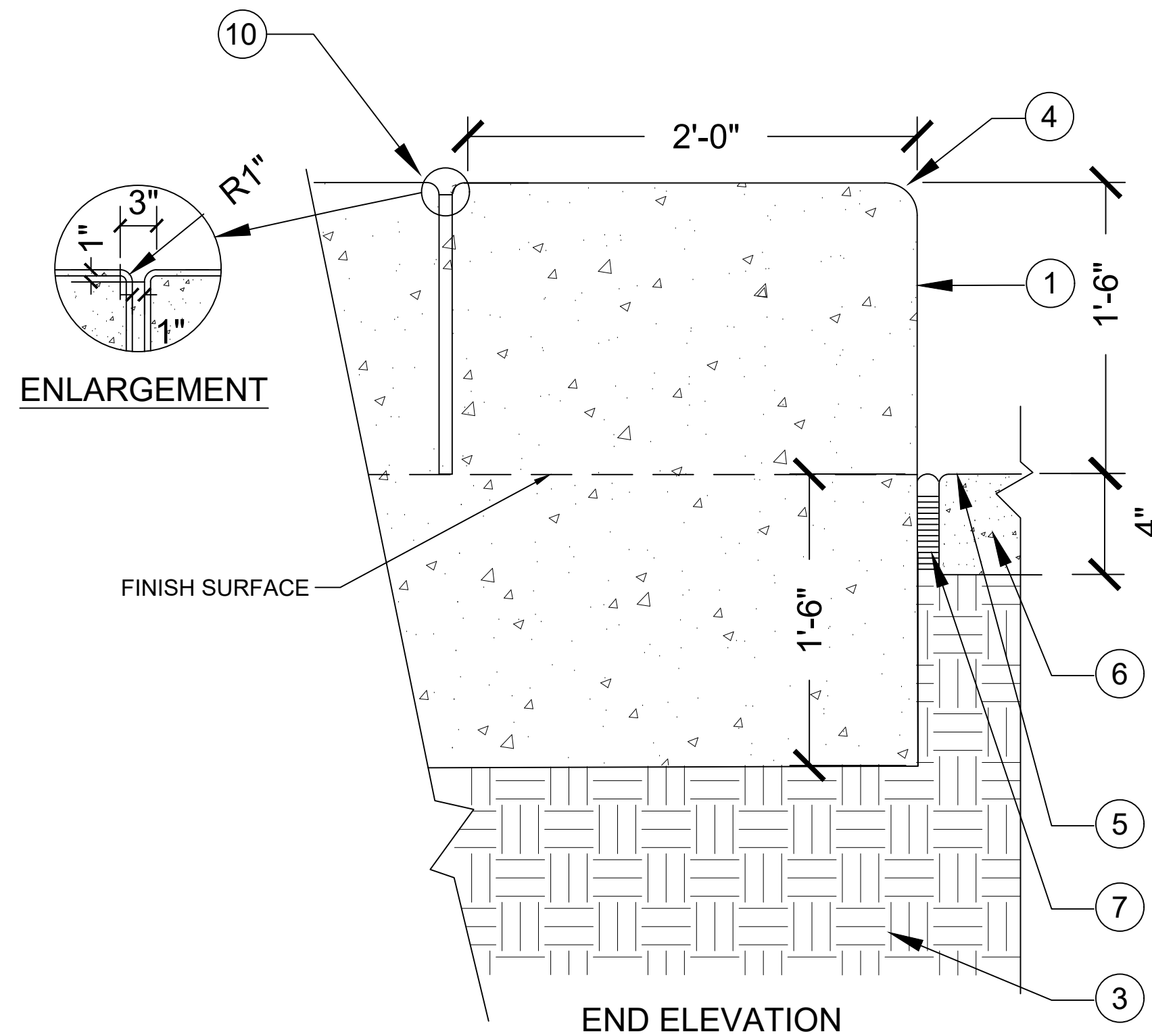
APPROVAL  
RECOMMENDED  
PROJECT MANAGER  
APPROVED  
DISTRICT MANAGER-DESIGN

SAN DIEGO UNIFIED PORT DISTRICT		DATE	5/5/2025
SPLASH PAD AT PORTWOOD PIER PLAZA		DATE	5/5/2025
LANDSCAPE CONSTRUCTION DETAILS		DATE	5/5/2025



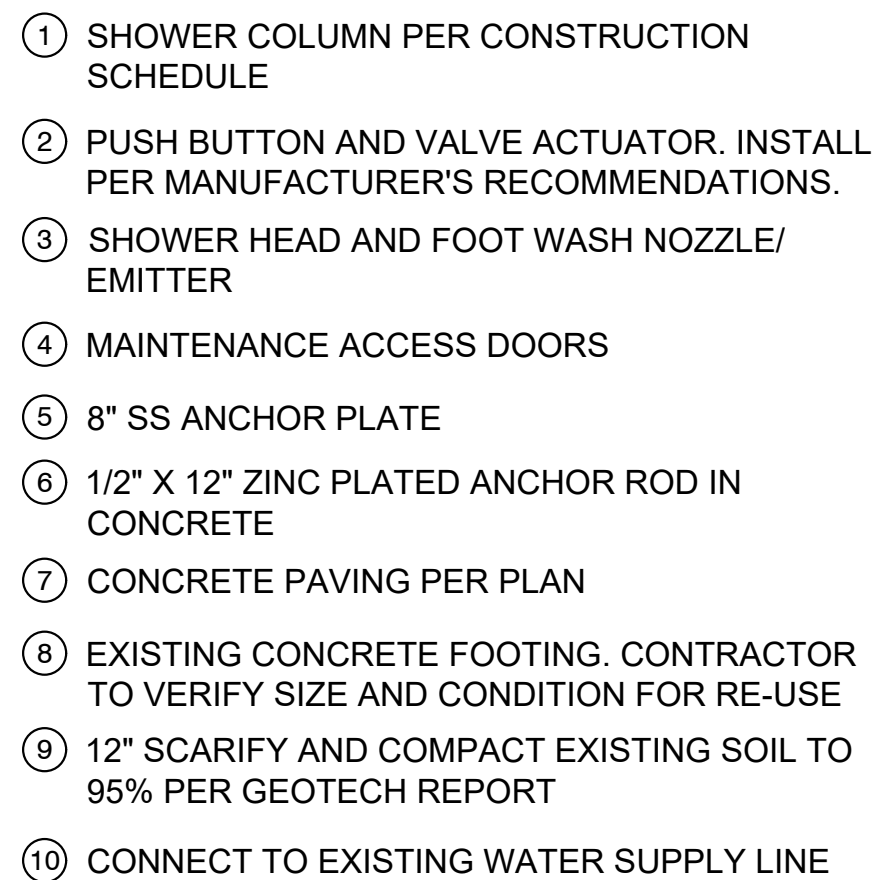






- ① STEPPED SEAT WALL PER PLANS
- ② ADJACENT PLANTING AREA. SEE PLANS
- ③ 12" SCARIFY AND COMPACT EXISTING SOIL TO 95% PER GEOTECH REPORT
- ④ 1" RAD. ON ALL OUTSIDE EDGES 18" RAD. AT ENDS OF WALL
- ⑤ SLOPE TO DRAIN 2% MIN. PER GRADING PLANS
- ⑥ CONCRETE PAVING PER PLAN (SEE DETAIL)
- ⑦ EXPANSION JOINT WITH CONTINUOUS JOINT SEALANT
- ⑧ #4 REBAR, VERTICAL, 16" O.C.
- ⑨ #4 REBAR, HORIZONTAL, 16" O.C.
- ⑩ SKATEBOARD DETERRENT REVEAL- BEGIN 2'-0" FROM END OF WALL AND PLACE EVERY 4'-0" PER ENLARGEMENT, ALIGN SCORE AND/OR EXPANSION JOINTS WITH DETERRENT.

- A. SEE CONSTRUCTION PLAN FOR CONCRETE FINISH AND COLOR.
- B. PROVIDE SCORE AND EXPANSION JOINTS PER SDRSD C-15 AND ALIGN WITH SKATE DETERRENT REVEAL. PROVIDE EXPANSION JOINTS AT 40' O.C. MAXIMUM. WATER STOPS EXCLUDED



- A. CONTRACTOR TO INSTALL SHOWER PER MANUFACTURER'S RECOMMENDATIONS.
- B. ANCHOR PER MANUFACTURER'S RECOMMENDATIONS.
- C. COLOR PER CONSTRUCTION SCHEDULE



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COST		INSPECTOR	
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REVISIONS

	DATE / APPROVED



## Waterfront of Opportunity


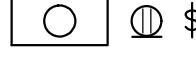
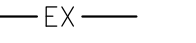
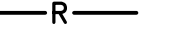







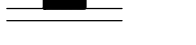


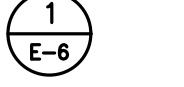

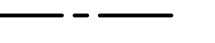



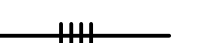

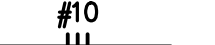



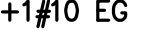





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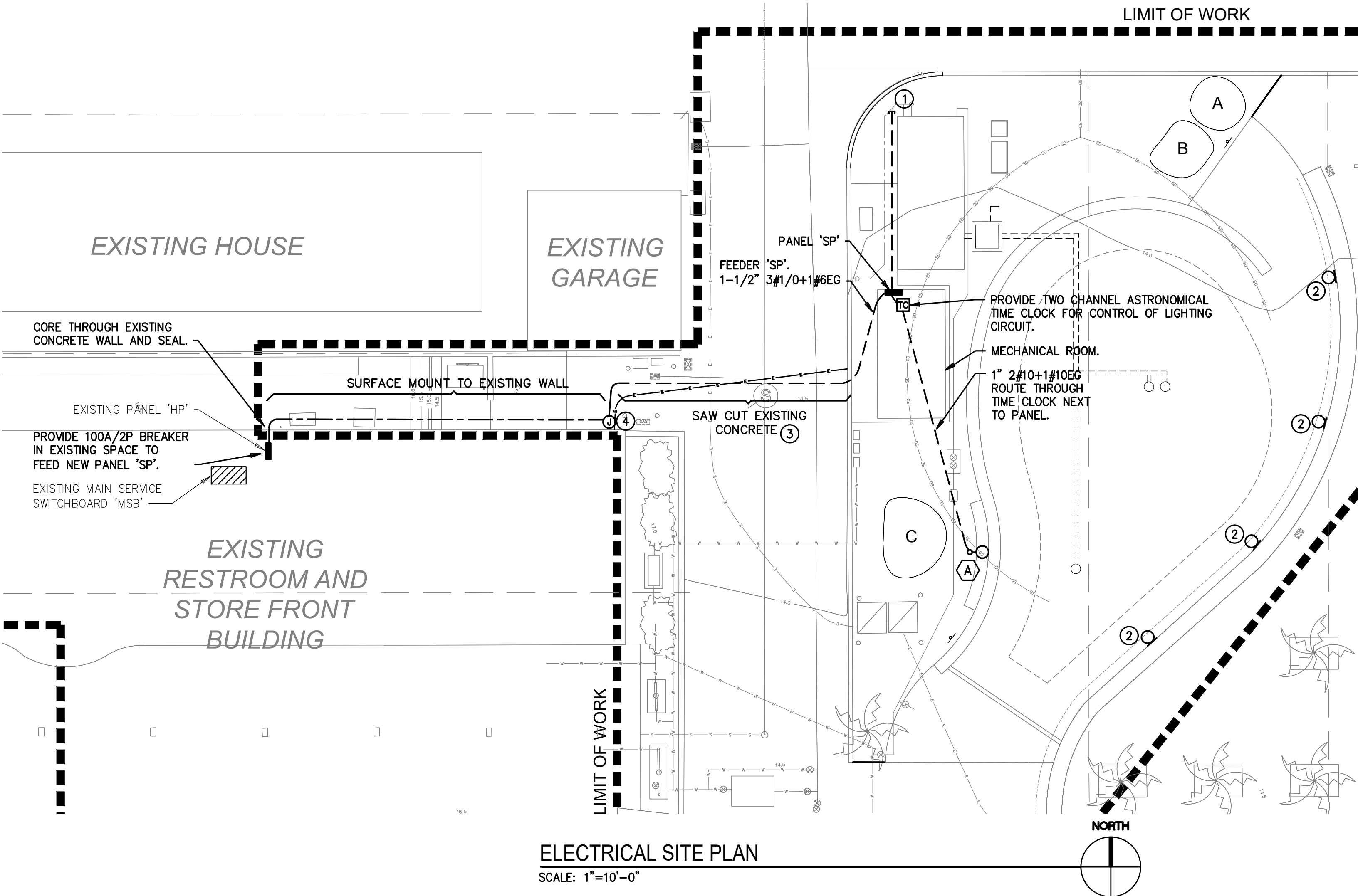
CONSTRUCTION DETAILS	IB-2025-01
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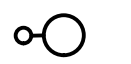



ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	DASHED SYMBOL INDICATES EXISTING FIXTURE, OUTLET, DEVICE OR EQUIPMENT TO BE REMOVED.
	FINE-LINED SYMBOL INDICATES EXISTING FIXTURE, OUTLET, DEVICE OR EQUIPMENT TO REMAIN.
	EXISTING CONDUIT TO REMAIN.
	EXISTING CONDUIT TO BE REMOVED IF IN AN ACCESSIBLE AREA OR TO BE ABANDONED IF IN AN INACCESSIBLE AREA.
	EXISTING LIGHT FIXTURE TO BE REMOVED AND RELOCATED.
	NEW LOCATION OF RELOCATED LIGHT FIXTURE.
	LIGHT FIXTURE PER LIGHTING FIXTURE SCHEDULE.
	ASTRONOMICAL TIME CLOCK, +42" AFF
	DUPLEX RECEPTACLE, WITH GFI PROTECTION, MOUNTED AT +15" U.O.N. WITHIN RECESSED LOCKABLE ENCLOSURE
	JUNCTION BOX. SIZED PER CEC, U.O.N.
	50 AMP SINGLE PHASE CARNIVAL OUTLET, MATCH RECEPTACLE TO EQUIPMENT PLUG, +42" AFF
	SURFACE MOUNTED PANELBOARD.
	TRANSFORMER, SIZE AND MOUNTING AS NOTED. (XFMR)
	HANDHOLE IN GRADE WITH SIZE AS INDICATED.
	INDICATES DETAIL '1' ON SHEET E-6 (TYPICAL).
	CONDUIT CONCEALED UNDER FLOOR SLAB OR UNDERGROUND.
	CONDUIT INSTALLED EXPOSED.
	1" CONDUIT WITH 2#12 CONDUCTORS PLUS 1#12 EQUIPMENT GROUNDING CONDUCTOR.
	1" CONDUIT WITH 3#12 CONDUCTORS PLUS 1#12 EQUIPMENT GROUNDING CONDUCTOR.
	1" CONDUIT WITH 4#12 CONDUCTORS PLUS 1#12 EQUIPMENT GROUNDING CONDUCTOR.
	A NUMBER ADJACENT TO THE HASH MARK IN ANY CONDUIT RUN INDICATES THE CONDUCTOR SIZE TO BE USED IN LIEU OF #12 AWG. CONDUIT AND EQUIPMENT GROUNDING CONDUCTOR SHALL BE SIZED PER CEC, U.O.N.
	HOMERUN TO INDICATED PANELBOARD ('A'). NUMBERS (1,3) INDICATE BRANCH CIRCUIT NUMBERS.
	INDICATES 3/4" CONDUIT WITH (3) 8 AWG CONDUCTORS + (1) 10 AWG EQUIPMENT GROUND.
	CONTACTOR AS INDICATED
	POWER TRANSFORMER.
	GROUND CONNECTION.
	NORMALLY OPEN POWER OR RELAY CONTACT.
	SWITCH SIZE
	NO. OF POLES
	TRIP SETTING
	FRAME SIZE
	NO. OF POLES

ABBREVIATIONS	
ABBREV.	DESCRIPTION
A, AMP	AMPERE
AC	ALTERNATING CURRENT
AF	AMPS FRAME, OR AMPS FUSE RATING
AIC	AMPERE INTERRUPTING CAPACITY
C	CONDUIT
CEC	CALIFORNIA ELECTRICAL CODE (TITLE 24, PART 3).
EA.	EACH
EG	EQUIPMENT GROUND, OR EQUIPMENT GROUNDING CONDUCTOR.
EX	EXISTING
Isc	AVAILABLE SHORT CIRCUIT CURRENT (SYMMETRICAL AMPS)
KAIC	1000 AMPS INTERRUPTING CAPACITY (KAIC)
LTG	LIGHTING, OR LIGHT
NEC	NATIONAL ELECTRICAL CODE
TYP	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
WP	WEATHERPROOF

- KEY NOTES**
- STUB OUT AND CAP (2) 1-1/4" CO FOR FUTURE LIGHTING OR POWER CIRCUITS FROM PANEL. CAP CONDUIT BELOW PANEL JUST ABOVE GRADE. REFER TO DETAIL 2 SHEET E-2.0 FOR MARKER AT CONDUIT STUB IN SITE.
  - CLEAN AND RELAMP ALL EXISTING LIGHTING FIXTURES AT SEAT WALLS.
  - LOCATE AND MARK OUT UTILITIES. ROUTE AROUND EXISTING SEWER AND WATER LINES.
  - PROVIDE STAINLESS STEEL 6"x6"x4"D WEATHERPROOF PULL BOX WITH TAMPER RESISTANT SCREWS.
  - CATALOG NUMBERS ARE BASED ON VENDOR INFORMATION, SALES LITERATURE AND PHOTOMETRIC DATA ON HAND AT THE TIME OF PROJECT DESIGN BY ALAGIA ENGINEERING AND ARE INTENDED TO CONVEY THE FEATURES/PERFORMANCE REQUIRED. EACH FIXTURE MUST BE PROVIDED COMPLETE WITH ALL FITTINGS AS APPROPRIATE FOR PROPER MOUNTING AT THE LOCATIONS INDICATED. EQUIVALENT FIXTURES AND POLES MEETING SPECIFICATIONS WILL BE ACCEPTABLE ONCE REVIEWED BY ENGINEER AND OWNERS REPRESENTATIVE.



LIGHTING FIXTURE SCHEDULE											
FIXTURE SYMBOL	FIXTURE TYPE	MANUFACTURER AND CATALOG NUMBER	LAMPS				FIXTURE		BALLAST TYPE	MOUNTING	DESCRIPTION
			QTY. OF LAMPS	TYPE	WATTS	COLOR TEMP.	INPUT VOLTS	TOTAL INPUT WATTS			
		FIXTURE: AV POLE LIGHTING: AVPL-ENV-SS-1-TYPE IV-72W-120/277-1-CREE-BRONZE-(0-10V) 10 YEAR COATING & LIGHT ENGINE POLE: WHATLEY: TS45-D17M-12-AB-DBZ ARM: SHA-1-PT35-CENTER SLEEVE-ANSI C136.41 7 PIN DIMMING RECEPT	1	LED	71	4000	120	71	DRIVER	POLE	DIE-CAST ALUMINUM POLE MOUNTED LED BELL SHAPED FIXTURE. FIXTURE TO HAVE 10 YEAR WARRANTY COATING AND 10 YEAR WARRANTY LIGHT ENGINE.

CITY OF IMPERIAL BEACH, CALIFORNIA ENGINEERING DEPARTMENT SHEET 14 OF 40 SHEETS				
FOR CITY ENGINEER _____ DATE _____				
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL				
CONTRACTOR _____ DATE STARTED _____		INSPECTOR _____ DATE COMPLETED _____		
SUB-CONSULTANT		CONSULTANT		
ALAGIA ENGINEERING 3909 SIERRA LINDA DR ESCONDIDO, CA 92025 (858)-602-6996 alagiaengineering@gmail.com AE#24020		SCHMIDT DESIGN GROUP 1310 Rosecrans St., Suite G, San Diego, CA 92106 619-236-1462 LIC. CA 21361 (NV 219) / AZ 34139 SCHMIDTDESIGN.COM SDG PR.# 24-408		

RECORD DRAWING REVIEWED BY: PROJECT MANAGER/ENGINEER DATE:	NOTE: THIS DRAWING MAY BE A REDUCED SCALE PRINT OF THE ORIGINAL DRAWING. UTILIZE GRAPHIC SCALES TO VERIFY IF DRAWING IS A REDUCTION, AND ADJUST SCALES ACCORDINGLY TO THE GRAPHIC SCALES SHOWN.	SPEC NO. 2025-02	WBS NO. BC-0004-01	PORT of SAN DIEGO Waterfront of Opportunity	DESIGNED NJA	APPROVAL RECOMMENDED PROJECT MANAGER APPROVED DISTRICT MANAGER-DESIGN	SAN DIEGO UNIFIED PORT DISTRICT		DATE 4/14/2025
		REFERENCES PROJECT ENGINEER CONTRACTOR CONSTRUCTION STARTED CONSTRUCTION COMPLETED COST INSPECTOR	SPLASH PAD AT PORTWOOD PIER PLAZA		A/E NO. E-1.0				
		REVISIONS	DATE / APPROVED		LANDSCAPE CONSTRUCTION PLAN		SHEET 14 OF 40		
		DRAWING NO. IB-2025-01			REV. -				



STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Outdoor Lighting

CERTIFICATE OF COMPLIANCE

NRCC-LTO-E

This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.

Project Name: Imperial Beach Splash Pad

Report Page: (Page 1 of 7)

Project Address:

Date Prepared: 2025-02-14T11:24:26-05:00

A. GENERAL INFORMATION			
01	Project Location (city)	Imperial Beach	
02	Climate Zone	7	04 Total Illuminated Hardscape Area (ft²) 5500
03	Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ):		
<input type="checkbox"/>	LZ-0: Very Low - Undeveloped Parkland	<input type="checkbox"/>	LZ-2: Moderate - Urban Clusters
<input type="checkbox"/>	LZ-1: Low - Rural Areas	<input checked="" type="checkbox"/>	LZ-3: Moderately High - Urban Areas
05	Occupancy Types within Project		
● All Other Occupancies			

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations.

My Project Consists of:

01	02
<input checked="" type="checkbox"/> New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)6
<input type="checkbox"/> Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?
03	04
% of Existing Luminaires Being Altered <sup>1</sup>	Sum Total of Luminaires Being Added or Altered
<input type="checkbox"/> < 10% <input type="checkbox"/> >= 10% and < 50% <input type="checkbox"/> >= 50%	Calculation Method

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

<sup>1</sup> FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Outdoor Lighting

CERTIFICATE OF COMPLIANCE

NRCC-LTO-E

Project Name: Imperial Beach Splash Pad

Report Page: (Page 2 of 7)

Date Prepared: 2025-02-14T11:24:26-05:00

C. COMPLIANCE RESULTS									
Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.									
Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv						Compliance Results			
01	02	03	04	05	06	07	08	09	
General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I)	+	Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	+	Sales Frontage 140.7(d)2 (See Table K)	+	Ornamental 140.7(d)2 / 170.2(e)6 (See Table L)	+	Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)	OR
Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)	=	Total Allowed (Watts)	≥	Total Actual (Watts)	07 must be >= 08				
435.5	+	---	+	---	+	---	OR	---	=
Shielding Compliance (See Table G for Details)						COMPLIES			
Controls Compliance (See Table H for Details)						COMPLIES			

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

Outdoor Lighting

CERTIFICATE OF COMPLIANCE

NRCC-LTO-E

Project Name: Imperial Beach Splash Pad

Report Page: (Page 3 of 7)

Date Prepared: 2025-02-14T11:24:26-05:00

F. OUTDOOR LIGHTING FIXTURE SCHEDULE									
For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (i.e. existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.									
Designed Wattage:									
01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Watts per luminaire <sup>1, 2</sup>	How is Wattage determined	Total Number Luminaires <sup>2</sup>	Luminaire Status <sup>3</sup>	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)1 <sup>4</sup>	Field Inspector Pass Fail
A	POLE MOUNTED LED FIXTURE <input type="checkbox"/> Linear	71	Mfr. Spec	1	New	<input type="checkbox"/>	71	Provided	<input type="checkbox"/> <input type="checkbox"/>
Total Design Watts:								71	

\* NOTES: Selections with a \* require a note in the space below explaining how compliance is achieved.  
EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)

<sup>1</sup> FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)

<sup>2</sup> For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.

<sup>3</sup> Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.

<sup>4</sup> Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)

Generated Date/Time:

Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000  
Schema Version: rev 20220101

Compliance ID: 274302-0225-0002  
Report Generated: 2025-02-14 08:24:30

Generated Date/Time:

Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000  
Schema Version: rev 20220101

Compliance ID: 274302-0225-0002  
Report Generated: 2025-02-14 08:24:30

Generated Date/Time:

Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000  
Schema Version: rev 20220101

Compliance ID: 274302-0225-0002  
Report Generated: 2025-02-14 08:24:30

CITY OF IMPERIAL BEACH, CALIFORNIA

ENGINEERING DEPARTMENT

SHEET 15 OF 40 SHEETS

FOR CITY ENGINEER

DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL				
CONTRACTOR		DATE STARTED		
INSPECTOR		DATE COMPLETED		

SUB-CONSULTANT

CONSULTANT

ALAGIA ENGINEERING  
3909 SIERRA LINDA DR  
ESCONDIDO, CA 92025  
(858)-802-6996  
alagiaengineering@gmail.com  
AEI#24020

SCHMIDT  
DESIGN  
GROUP

1310 Rosecrans St., Suite G, San Diego, CA 92106  
619.236.1462  
LIC. CA 21361 | NV 2191 | AZ 34139  
SCHMIDTDESIGN.COM  
SDG PR.# 24-408

RECORD DRAWING

REVIEWED BY:

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SCALES ACCORDINGLY TO THE  
GRAPHIC SCALES SHOWN.

SPEC NO. 2025-02

WBS NO. BC-0004-01

REFERENCES

PROJECT ENGINEER

CONTRACTOR

CONSTRUCTION STARTED

CONSTRUCTION COMPLETED

COST

INSPECTOR

REVISIONS

DATE / APPROVED

DESIGNED  
NJA

DRAWN  
PS NJA

CHECKED  
NJA

APPROVAL  
RECOMMENDED

PROJECT MANAGER

APPROVED

DISTRICT MANAGER-DESIGN

SAN DIEGO UNIFIED PORT DISTRICT

SPLASH PAD AT PORTWOOD PIER PLAZA

TITLE 24 CALCULATIONS

DATE 4/14/2025

A/E NO. E-1.1

SHEET 15 OF 40

DRAWING NO. IB-2025-01

REV. -



STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTO-E

Project Name: Imperial Beach Splash Pad

Report Page: (Page 4 of 7)

Date Prepared: 2025-02-14T11:24:26-05:00

G. SHIELDING REQUIREMENTS (BUG)															
This table includes fixtures of >=6,200 initial lumens indicated on Table F as needing to comply with Shielding Requirements. Maximum lumens can be found in Title 24, Part 11, Section 5.106.8.															
01	02	03		04	05	06		07	08	09		10	11	12	
Name or Item Tag	Complete Luminaire Description	Backlight Rating <sup>2</sup>			Uplight Rating <sup>2</sup>			Glare Rating (Lumens) <sup>2</sup>				Field Inspector			
		Mounting Height <sup>1</sup>	Max Allowable Backlight Rating <sup>3</sup>	Backlight Rating Per Design	Lighting type	Max Allowable Uplight Rating <sup>3</sup>	Uplight Rating Per Design	Mounting Height <sup>1</sup>	Max Allowable Glare Rating <sup>3</sup>	Glare Rating Per Design	Pass	Fail			
A	POLE MOUNTED LED FIXTURE	2 MH from property line	No Limit	B2	Area Lighting	U0	U0	> 2 MH from property line	G3	G2	<input type="checkbox"/>	<input type="checkbox"/>			

<sup>1</sup>FOOTNOTES: Mounting Height is labeled MH in this table.  
<sup>2</sup> Authority Having Jurisdiction may ask for Luminaire cut sheets or other documentation to confirm luminaire type, uplight ratings and glare ratings used for compliance per 130.2(b)/ 160.5(c)  
<sup>3</sup> BUG ratings with a lower number than the 'Max Allowable' are compliant. Ex. If Max Allowable is Bug Rating B4, then B0, B1, B2 and B3 are all compliant.

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.

Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit.

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05
Area Description	Shut-Off 130.2(c)1 / 160.5(c)	Auto-Schedule 130.2(c)2 / 160.5(c)	Motion Sensor 130.2(c)3 / 160.5(c)	Field Inspector
Splash Pad: "A"	Astronomical Timer	Provided	NA: Athletic Fields/Playgrounds Lighting	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

<sup>1</sup>FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.  
<sup>2</sup>Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.  
<sup>3</sup>Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTO-E

Project Name: Imperial Beach Splash Pad

Report Page: (Page 7 of 7)

Project Address: 2025-02-14T11:24:26-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Neal Alagia

Signature Date: [Redacted]

Company: Alagia Engineering

Address: CEA/ HERS Certification Identification (if applicable):

City/State/Zip: [Redacted]

Phone: [Redacted]

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
- The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the building permit(s) at occupancy.

Responsible Designer Name: Neal Alagia

Responsible Design Date: [Redacted]

Company: Alagia Engineering

Date Signed: [Redacted]

Address: [Redacted]

License: [Redacted]

City/State/Zip: [Redacted]

Phone: [Redacted]

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTO-E

Project Name: Imperial Beach Splash Pad

Report Page: (Page 5 of 7)

Date Prepared: 2025-02-14T11:24:26-05:00

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))									
<p>This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/ Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B / Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.</p> <p>Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H, and are not included here. All other multifamily outdoor lighting is included here.</p> <p>Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential &amp; Hotel/Motel</p>				01					
				"Use it or lose it" Allowance (select all that apply) (select all that apply)					
				<input checked="" type="checkbox"/> General Hardscape Table I (below)	<input type="checkbox"/> Per Application Table J	<input type="checkbox"/> Sales Frontage Table K	<input type="checkbox"/> Ornamental Table L	<input type="checkbox"/> Per Specific Area Table M	
02	03	04	05	06	07	08	09		
Area Description	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			Total General AWA + LWA (Watts)		
	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)			
Splash Pad	5500	0.021	115.5	350	0.2	70	185.5		
Initial Wattage Allowance for Entire Site (Watts):								250	
Instances of Initial Wattage Allowance (LZ 0 only)¹									
Total General Hardscape Allowance (Watts):								435.5	

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

NRCC-LTO-E

Project Name: Imperial Beach Splash Pad

Report Page: (Page 6 of 7)

Date Prepared: 2025-02-14T11:24:26-05:00

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title

NRCL-LTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/attcp/providers.html>

Form/Title

Systems/Spaces To Be Field Verified

NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.

Splash Pad: "A"

CITY OF IMPERIAL BEACH, CALIFORNIA

ENGINEERING DEPARTMENT

SHEET 16 OF 40 SHEETS

FOR CITY ENGINEER

DATE

DESCRIPTION

BY

APPROVED

DATE

FILMED

ORIGINAL

CONTRACTOR

DATE STARTED

INSPECTOR

DATE COMPLETED

SAN DIEGO UNIFIED PORT DISTRICT

DATE 4/14/2025

A/E NO. E-1.2

SHEET 16 OF 40

DRAWING NO. IB-2025-01

REV. -

SPLASH PAD AT PORTWOOD PIER PLAZA

TITLE 24 CALCULATIONS

DESIGNED NJA

DRAWN PS NJA

CHECKED NJA

APPROVAL RECOMMENDED

PROJECT MANAGER

APPROVED

DISTRICT MANAGER-DESIGN

ALAGIA ENGINEERING

3909 SIERRA LINDA DR

ESCONDIDO, CA 92025

(858)-602-6996

alagiaengineering@gmail.com

AE#24020

REGISTERED PROFESSIONAL ENGINEER

NEAL ALAGIA

13829

Exp. 6-30-26

ELECTRICAL

STATE OF CALIFORNIA

SCHMIDT DESIGN GROUP

1310 Rosecrans St., Suite G, San Diego, CA 92106

619.236.1462

LIC. CA 21361 | NV 2191 | AZ 34139

SCHMIDTDESIGN.COM

SDG PR.# 24-408

PORT of SAN DIEGO

Waterfront of Opportunity

RECORD DRAWING

REVIEWED BY:

PROJECT MANAGER/ENGINEER

DATE:

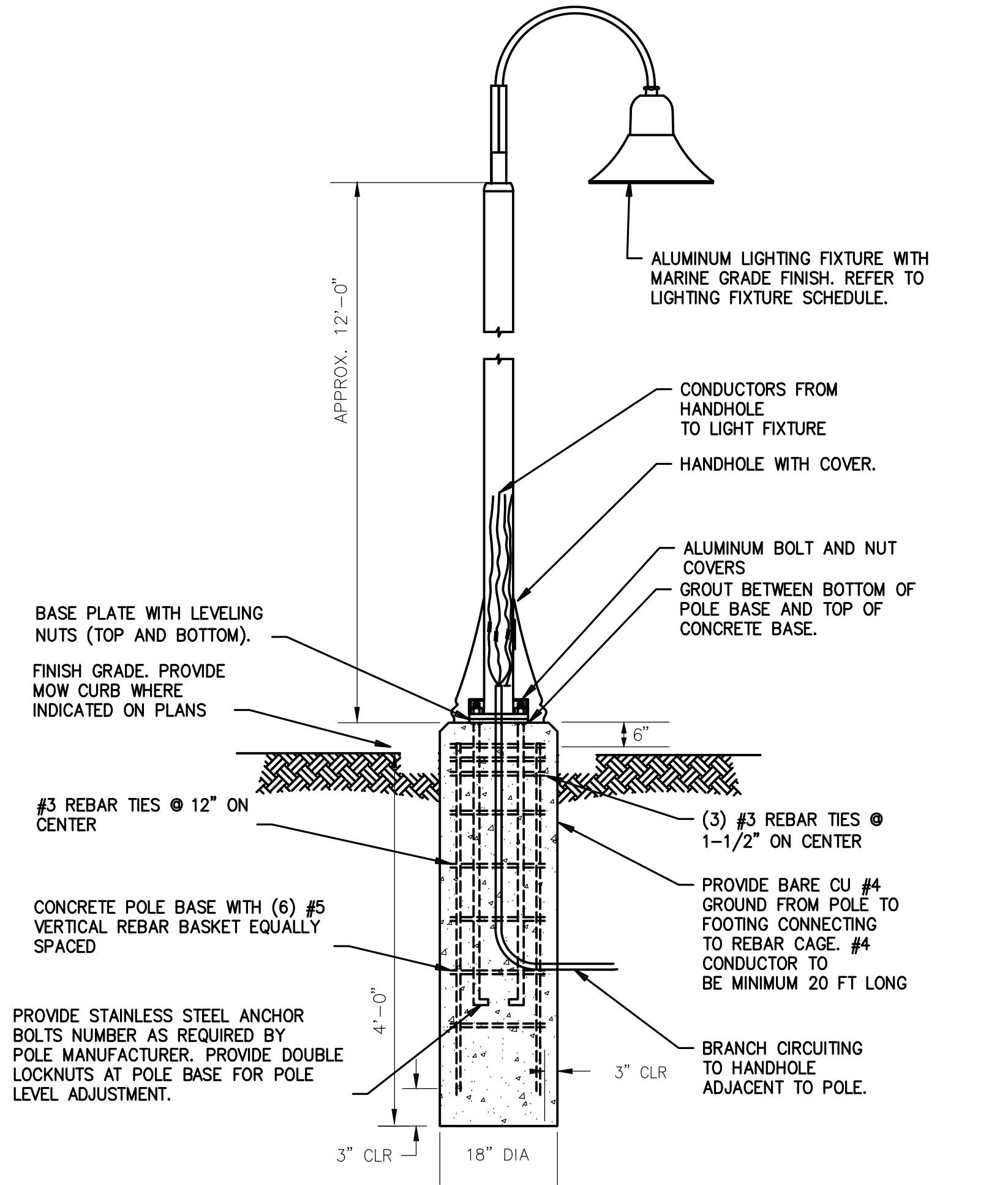
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SPEC NO.	2025-02	WBS NO.	BC-0004-01
REFERENCES			
PROJECT ENGINEER			
CONTRACTOR			
CONSTRUCTION STARTED			
CONSTRUCTION COMPLETED			
COST			
INSPECTOR			

REVISIONS	DATE / APPROVED



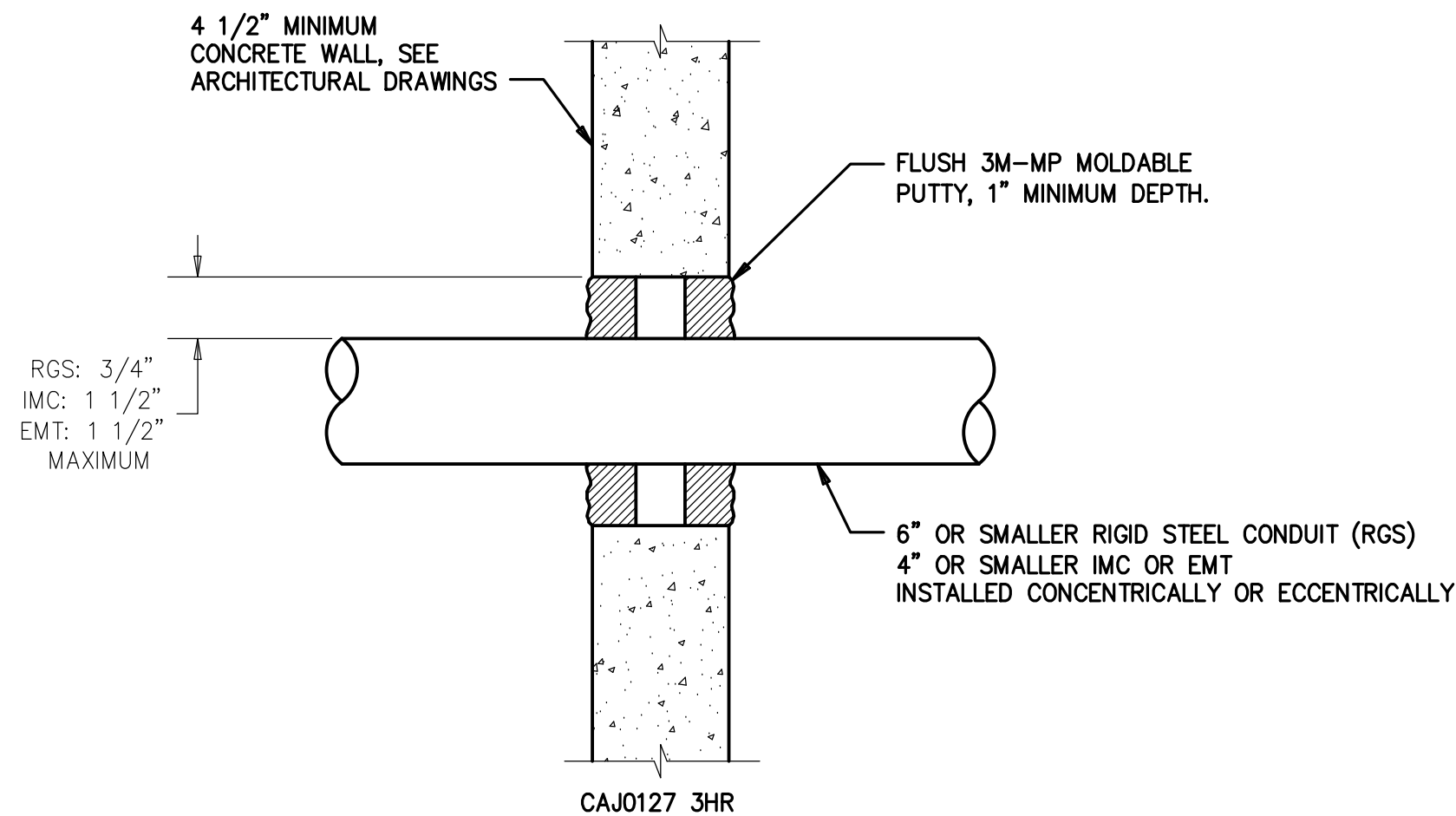




### FIXTURE A DETAIL

NO SCALE

1  
E-2.0



### FIRE STOPPING DETAIL

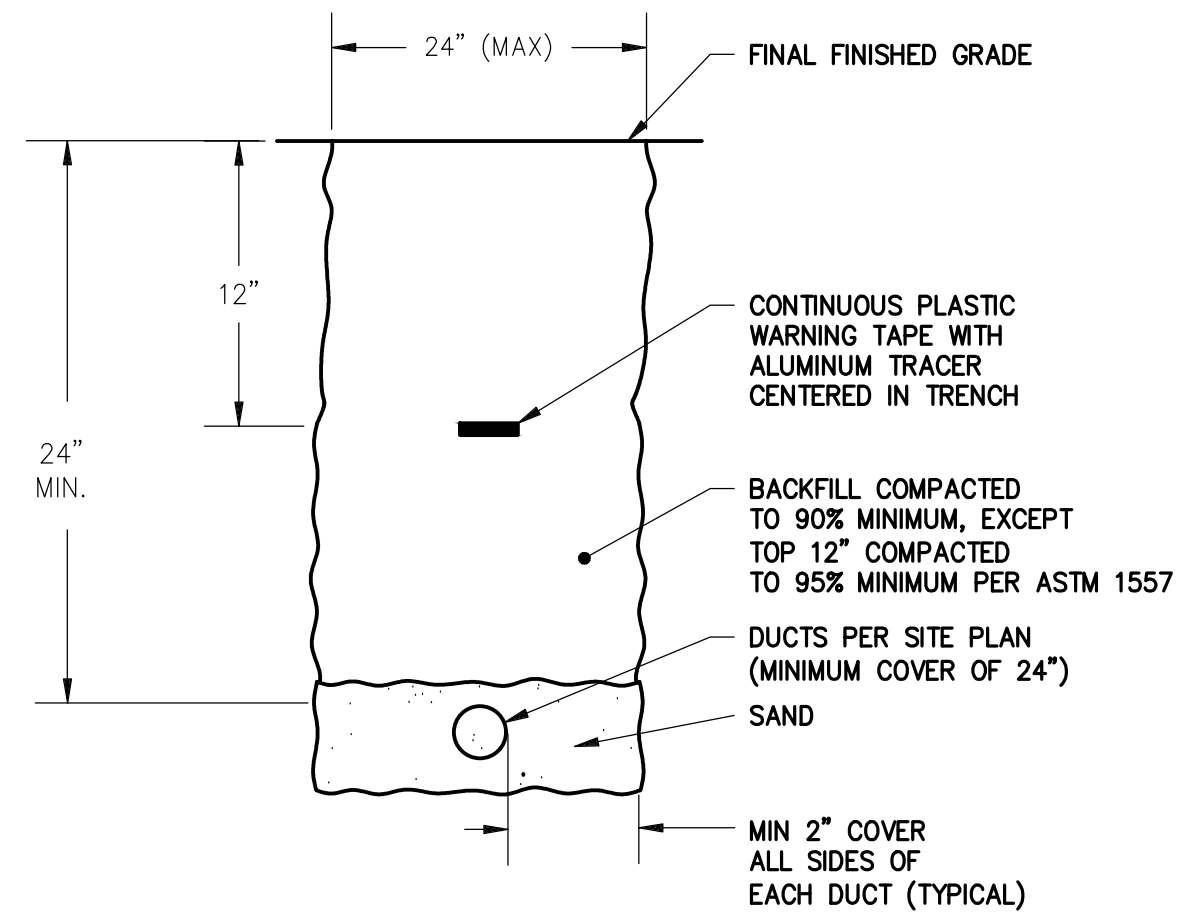
NO SCALE

3  
E-2.0

PANEL ID: HP			EXISTING			FEEDER/SYSTEM			LOAD TYPES		
LOCATION: ELECTRICAL ROOM						SYSTEM: 240 120V, 3-PH, 4W			blank or NON-CONTINUOUS		
MAIN: LUGS ONLY									LCL: LONG-CONTINUOUS		
BUS AMPS: 400									REC: DEMANDABLE RECEIPTS		
MOUNTING: SURFACE									KIT: KITCHEN PNL: SUB-FED PNL		
AIC RATING: 10,000									UNIT: RESID UNIT MTR: MOTOR		

CKT	DESCRIPTION	LOAD TYPE	BKR	LOAD (VA) PH A	LOAD (VA) PH B	LOAD (VA) PH C	BKR	LOAD TYPE	DESCRIPTION	CKT	
1	EXISTING STREET LIGHTS	LCL	20/	188	16851		225/	NON	EXISTING PANEL HL	2	
3	EXISTING STREET LIGHTS	LCL	/2		188	17496	/	NON	EXISTING PANEL HL	4	
5	EXISTING SPARE		20/1			15653	/3	NON	EXISTING PANEL HL	6	
7	EXISTING STEP LIGHTS	LCL	20/1	559	1200		20/1	MTR	EXISTING HAND DRYER	8	
9	EXISTING SPARE		20/1						SPACE	10	
11	EXISTING BUILDING LIGHTS	LCL	20/1			1058	1200	20/1	MTR	EXISTING HAND DRYER	12
13	EXISTING STEP LIGHTS	LCL	20/1	430	1200		20/1	MTR	EXISTING HAND DRYER	14	
15	SPACE								SPACE	16	
17	EXISTING RESTROOM LIGHT	LCL	20/1			528	1200	20/1	MTR	EXISTING HAND DRYER	18
19	EXISTING CONTROLS	NON	20/1	600	350		20/1	REC	EXISTING ELECTRICAL & STORAGE ROOMS	20	
21	SPACE								SPACE	22	
23	EXISTING SITE POWER PEDESTAL	REC	50/			5000	5000	50/	REC	EXISTING SITE PEDESTAL	24
25	EXISTING SITE POWER PEDESTAL	REC	/2	5000	5000		/2	REC	EXISTING SITE PEDESTAL	26	
27	SPACE								SPACE	28	
29	EXISTING STORAGE	NON	20/1			900	720	20/1	EXISTING SPRE	30	
31	EXISTING	NON	20/1	540					SPACE	32	
33	SPACE								SPACE	34	
35	SPLASH PAD PANEL SP	NON	100/			6200	5000	50/	REC	EXISTING SITE PEDESTAL	36
37	SPLASH PAD PANEL SP	NON	/2	6200	5000		/2	REC	EXISTING SITE PEDESTAL	38	
39	SPACE								SPACE	40	
41	EXISTING	NON	20/1			540			SPACE	42	

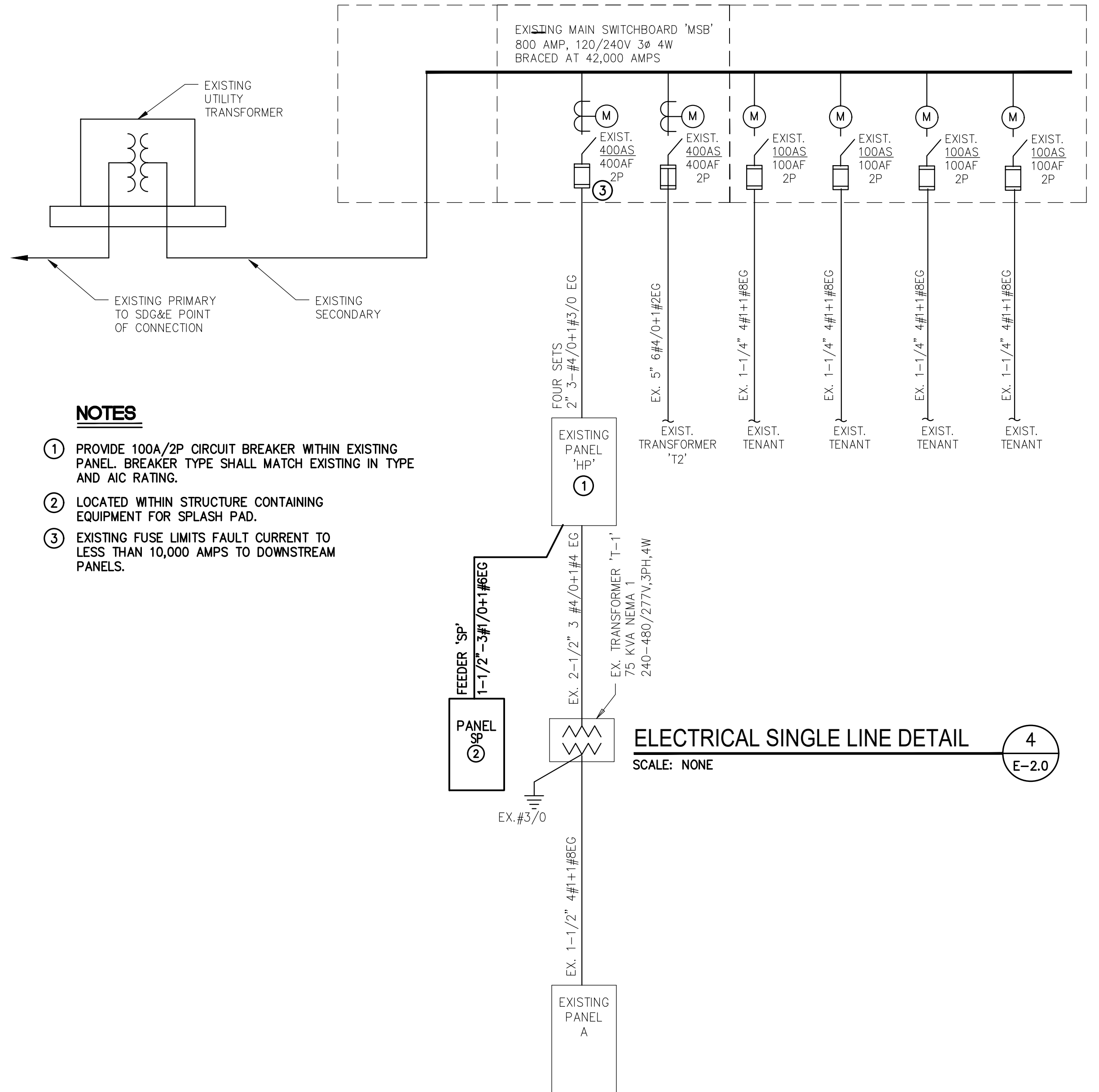
CONNECTED VA		DEMAND VA		PH A	PH B	PH C	CONNECTED LOAD PER PHASE	
GEN'L LOAD:	65700		65700	43118	17684	42999		
LONG CONTIN:	2951		3689			103901		TOTAL CONNECTED LOAD (VA)
GEN'L RECEIPT:	30350		20175			250		AMPS OF TOTAL CONNECTED LOAD
MOTOR LOAD:	4890		+25% OF LARGEST			94664		TOTAL DEMAND VA (BALANCED)
KITCHEN LOAD:	0		0			343		HIGH PHASE AMPS/SLCL



### ELECTRICAL TRENCH DETAIL

NO SCALE

2  
E-2.0



### NOTES

- PROVIDE 100A/2P CIRCUIT BREAKER WITHIN EXISTING PANEL. BREAKER TYPE SHALL MATCH EXISTING IN TYPE AND AIC RATING.
- LOCATED WITHIN STRUCTURE CONTAINING EQUIPMENT FOR SPLASH PAD.
- EXISTING FUSE LIMITS FAULT CURRENT TO LESS THAN 10,000 AMPS TO DOWNSTREAM PANELS.

### ELECTRICAL SINGLE LINE DETAIL

SCALE: NONE

4  
E-2.0


SUB-CONSULTANT		CONSULTANT		CITY OF IMPERIAL BEACH, CALIFORNIA ENGINEERING DEPARTMENT SHEET 17 OF 40 SHEETS				
 ALAGIA ENGINEERING 3909 SIERRA LINDA DR ESCONDIDO, CA 92025 (858)-602-6996 alagiaengineering@gmail.com AE#24020		 1310 Rosecrans St., Suite G, San Diego, CA 92106 619-236-1462 LIC: CA 21381 NV 2191 AZ 34139 SCHMIDTDESIGN.COM SDG PR.# 24-408		FOR CITY ENGINEER				
				DESCRIPTION	BY	APPROVED	DATE	FILMED
				ORIGINAL				
DESIGNED NJA		DRAWN PS NJA		CONTRACTOR _____ DATE STARTED _____				
CHECKED NJA		APPROVED NJA		INSPECTOR _____ DATE COMPLETED _____				
 PORT of SAN DIEGO Waterfront of Opportunity		APPROVAL RECOMMENDED PROJECT MANAGER APPROVED DISTRICT MANAGER-DESIGN		SAN DIEGO UNIFIED PORT DISTRICT				
				SPLASH PAD AT PORTWOOD PIER PLAZA				
RECORD DRAWING		DESIGNED NJA		ELECTRICAL SINGLE LINE DIAGRAM AND SCHEDULES				
REVIEWED BY: PROJECT MANAGER/ENGINEER		DRAWN PS NJA		DATE: 4/14/2025				
DATE:		CHECKED NJA		SHEET 17 OF 40				
NOTE: THIS DRAWING MAY BE A REDUCED SCALE PRINT OF THE ORIGINAL DRAWING. UTILIZE GRAPHIC SCALES TO VERIFY IF DRAWING IS A REDUCTION, AND ADJUST SCALES ACCORDINGLY TO THE GRAPHIC SCALES SHOWN.		APPROVED NJA		DRAWING NO. IB-2025-01				
SPEC NO. 2025-02		WBS NO. BC-0004-01		REV. -				
REFERENCES PROJECT ENGINEER CONTRACTOR CONSTRUCTION STARTED CONSTRUCTION COMPLETED COST INSPECTOR		REVISIONS DATE / APPROVED		100% CONSTRUCTION DOCUMENTS				





















# IRRIGATION DEMOLITION NOTES

- QUALITY ASSURANCE
- A. USE ADEQUATE NUMBERS OF SKILLED WORKPEOPLE WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIC REQUIREMENTS AND THE METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK OF THIS SECTION.
- B. NEITHER THE OWNER NOR THE PORT'S REPRESENTATIVE WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE THEREFORE.
2. PROJECT CONDITIONS
- A. PROTECTION OF EXISTING TREES AND VEGETATION: PROTECT EXISTING TREES AND OTHER VEGETATION INDICATED TO REMAIN IN PLACE, AGAINST CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING AND BRUISING OF BARK, A MINIMUM 5 FEET OFFSET FROM THE DRIPLINE, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS WITHIN DRIP LINE. PROVIDE TEMPORARY GUARDS TO PROTECT TREES AND VEGETATION TO REMAIN.
3. DISPOSITION OF MATERIALS
- A. REMOVE MATERIAL EXCEPT THOSE ITEMS INDICATED TO BE RE-USED TO A LEGAL DISPOSAL AREA.
- B. STOCKPILING OF REMOVED MATERIALS ON THE PROJECT SITE WILL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL FROM THE DISTRICT'S REPRESENTATIVE.
4. PROTECTION OF PERSONS AND PROPERTY
- A. BARRICADE OPEN DEPRESSIONS AND HOLES OCCURRING AS PART OF THIS WORK, AND POST WARNING LIGHTS ON PROPERTY ADJACENT TO OR WITH PUBLIC ACCESS.
- B. OPERATE WARNING LIGHTS DURING HOURS FROM DUSK TO DAWN EACH DAY AND AS OTHERWISE REQUIRED.
- C. PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT, AND OTHER HAZARDS CREATED BY OPERATIONS UNDER THIS SECTION.
- D. CONTRACTOR TO PROVIDE A SIX FOOT TEMPORARY CHAIN LINK CONSTRUCTION FENCE, GATE, AND CONSTRUCTION SIGNS AROUND LIMIT OF WORK LINE DURING CONSTRUCTION. LOCATION OF FENCING SHALL BE APPROVED BY THE PORT'S REPRESENTATIVE. STABILIZE TEMPORARY FENCE WITH SAND BAGS OR OTHER SUPPLIER APPROVED METHOD.
5. UTILITIES
- A. COORDINATE WITH UTILITY COMPANIES AND AGENCIES AS REQUIRED. CONTRACTOR WILL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES.
- B. WHERE UTILITY CUTTING, CAPPING, OR PLUGGING IS REQUIRED, PERFORM SUCH WORK IN ACCORDANCE WITH REQUIREMENTS OF THE UTILITY, COMPANY OR GOVERNMENTAL AGENCY HAVING JURISDICTION.
- C. BEFORE EXCAVATION, VERIFY THE LOCATION OF UNDERGROUND UTILITIES AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATION, THE CONTRACTOR SHALL REQUEST MARK-OUT OF UNDERGROUND UTILITIES BY CALLING THE BELOW LISTED REGIONAL NOTIFICATION CENTER FOR AN INQUIRY IDENTIFICATION NUMBER:
- UNDERGROUND SERVICE ALERT (USA) (800) 422-4133  
CABLE TELEVISION: COX CABLE.....(760) 806-9809  
GAS& ELECTRIC: SDG&E.....(800) 411-7343  
TELEPHONE: AT&T.....(858) 886-1906  
SEWER& WATER.....(619) 527-7482  
CITY OF SAN DIEGO.....(619) 236-5555
- D. CONTRACTOR SHALL PROVIDE A UTILITY LOCATOR TO MARK OUT ALL UTILITIES WITHIN THE PROJECT FOOTPRINT NOT IDENTIFIED BY (USA). ALL MARK-OUTS WITHIN THE PROJECT LIMITS MUST BE IDENTIFIED PRIOR TO START OF DEMOLITION AND EXCAVATION OPERATIONS.
6. IRRIGATION REQUIREMENTS
- A. REMOVE EXISTING IRRIGATION HEADS AND VALVE BOXES IN AREAS INDICATED FOR REMOVAL. EXISTING SUBTERRANEAN IRRIGATION LATERALS AND MAINLINE TO BE ABANDONED IN PLACE. EXISTING SUBTERRANEAN IRRIGATION LATERALS AND MAINLINE SHALL BE REMOVED WHEN INTERFERENCE OCCURS WITH PROPOSED IMPROVEMENTS.
- B. REFER TO IRRIGATION DEMOLITION PLAN SHEETS FOR NOTES REGARDING EXISTING IRRIGATION EQUIPMENT TO BE REMOVED, REPLACED, RELOCATED OR PROTECTED IN PLACE. THE EXISTING IRRIGATION SYSTEM IS SHOWN DIAGRAMMATICALLY FOR CLARITY. CONTRACTOR TO FIELD LOCATE ALL PIPING, VALVES, BACKFLOW PREVENTERS, AND OTHER IRRIGATION EQUIPMENT AS NEEDED.
- C. CONTRACTOR SHALL PROVIDE TEMPORARY IRRIGATION SYSTEM OR HAND WATER AREAS AFFECTED DURING IRRIGATION DEMOLITION AND CONSTRUCTION. PROVIDE TEMPORARY HIGH LINES, WIRES, ETC. AS REQUIRED TO MAINTAIN A FULLY FUNCTIONING IRRIGATION SYSTEM THROUGHOUT THE DURATION OF CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH THE CITY OF IMPERIAL BEACH MAINTENANCE STAFF PRIOR TO ANY IRRIGATION WATER OUTAGES.

### EXISTING IRRIGATION DEMOLITION LEGEND

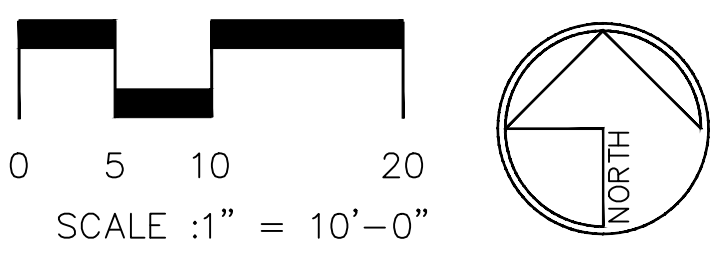
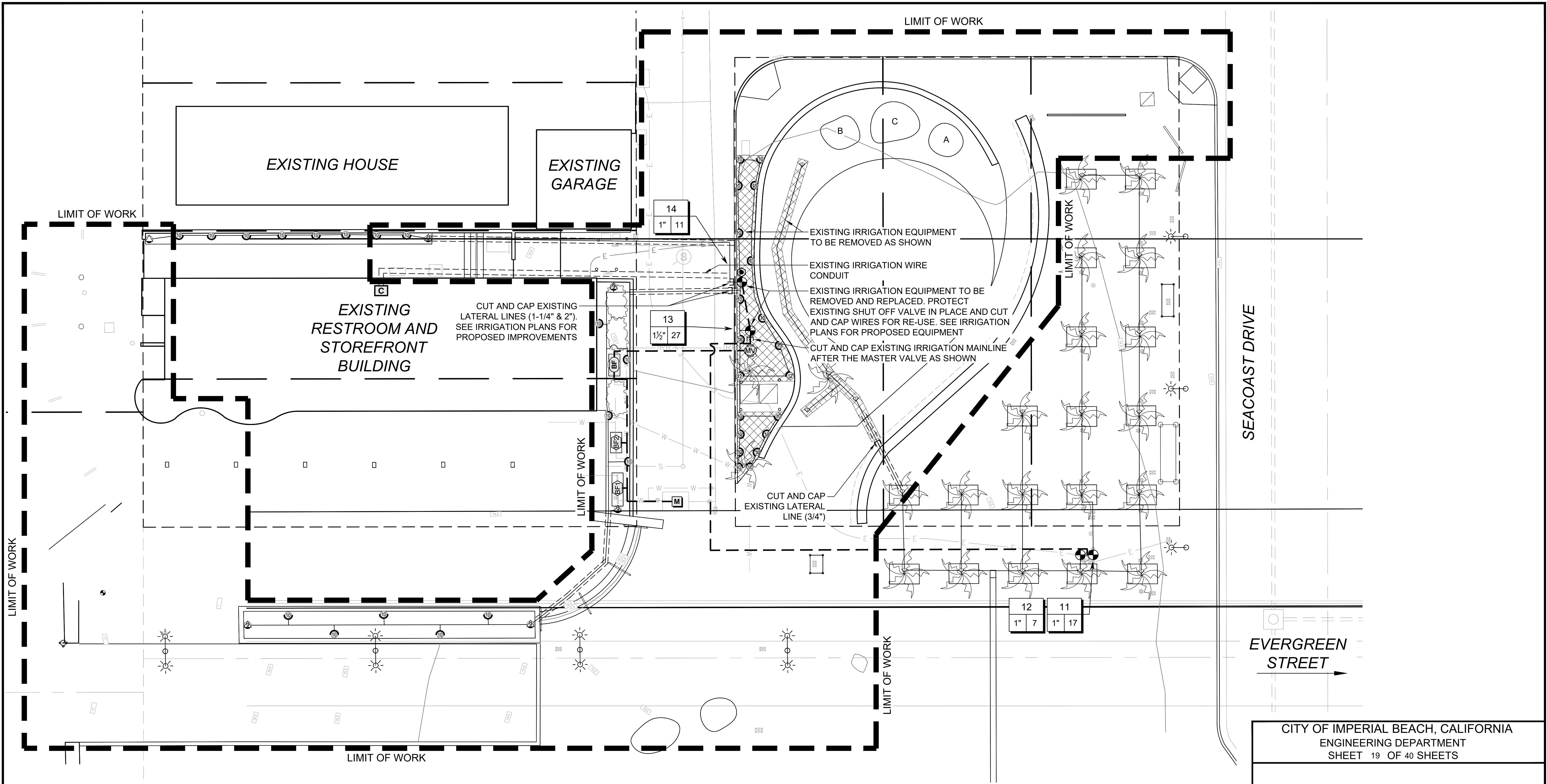
<u>SYMBOL</u>	<u>DESCRIPTION</u>
	EXISTING IRRIGATION TO BE REMOVED CONTRACTOR TO REMOVE EXISTING IRRIGATION SPRAY HEADS, LATERALS, AND VALVES AS SHOWN. SEE ALSO LANDSCAPE IRRIGATION PLANS FOR PROPOSED IRRIGATION IMPROVEMENTS.

### EXISTING IRRIGATION LEGEND

<u>SYMBOL</u>	<u>MANUFACTURER/MODEL/DESCRIPTION</u>
	EXISTING RAIN BIRD 1806-SAM 15 STRIP SERIES SHRUB SPRAY 6IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2IN. NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE.
	EXISTING RAIN BIRD 1806-SAM 10 SERIES MPR SHRUB SPRAY 6IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2IN. NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE.
	EXISTING RAIN BIRD 1806-SAM 12 SERIES MPR SHRUB SPRAY 6IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2IN. NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE.
	EXISTING RAIN BIRD 1812-SAM 10 SERIES MPR EXISTING SHRUB SPRAY 12IN. POP-UP SPRINKLER
	EXISTING RAIN BIRD 1402 P/C BUBBLER HEAD IN DEEP ROOT IRRIGATION TUBE (2 PER TREE)
<u>SYMBOL</u>	<u>MANUFACTURER/MODEL/DESCRIPTION</u>
	EXISTING RAIN BIRD EFB-CP 2IN. BRASS REMOTE CONTROL VALVE
	EXISTING RAIN BIRD 33-DRC 3/4IN. BRASS QUICK-COUPLING VALVE
	EXISTING GRISWOLD 2000-E 1-1/2" 1-1/2" EPOXY FUSED MASTER CONTROL VALVE
	EXISTING FEBCO 825Y 2" IRRIGATION BACKFLOW PREVENTER
	EXISTING IRRITROL MC-24E 24- STATION, COMMERCIAL-GRADE, OUTDOOR/INDOOR CONTROLLER
	EXISTING POTABLE BACKFLOW 1
	EXISTING POTABLE BACKFLOW 2
	EXISTING IRRIGATION LATERAL LINE
	EXISTING IRRIGATION MAINLINE
	EXISTING IRRIGATION PIPE SLEEVE
	CUT AND CAP FOR FUTURE USE
	Valve Callout
	Valve Number Valve Flow Valve Size

<b>RECORD DRAWING</b> REVIEW BY: _____ DATE: _____ PROJECT MANAGER: _____ DATE: _____	THIS DRAWING MAY BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF THE PORT OF SAN DIEGO.	SPEC NO: <b>2025-02</b> WBS NO: <b>BC-0004-01</b>	 <b>PORT of SAN DIEGO</b> Waterfront of Opportunity	DESIGNED: <b>JM JJ CC</b> DRAWN: <b>CC</b> CHECKED: <b>JM JJ</b>	APPROVAL: _____ RECOMMENDED: _____ APPROVED: _____ DISTRICT MANAGER - DESIGN: _____	SAN DIEGO UNIFIED PORT DISTRICT <b>SPLASH PAD AT PORTWOOD PIER PLAZA</b> <b>IRRIGATION DEMOLITION LEGEND AND NOTES</b>	DATE: <b>5/5/2025</b> SIZE: <b>11B-1.0</b> SHEET: <b>18</b> OF <b>40</b> DRAWING NO: <b>IB-2025-01</b>
	REFERENCES: _____ PROJECT ENGINEER: _____ CONTRACTOR: _____ CONSTRUCTION STARTED: _____ CONSTRUCTION COMPLETED: _____ COST: _____ INSPECTOR: _____	REVISIONS: _____ DATE / APPROVED: _____					





CONSULTANT

**SCHMIDT  
DESIGN  
GROUP**

1310 Rosecrans St., Suite G, San Diego, CA 92106  
619.236.1462  
LIC. CA 2138 | NV 219 | AZ 34139  
[SCHMIDTDESIGN.COM](http://SCHMIDTDESIGN.COM)  
SDG PRJ# 24-408

LICENSED LANDSCAPE ARCHITECT  
JEFFREY T. BARR NO. 5299  
SIGNATURE  
12-31-25  
RENEWAL DATE  
5/5/25  
DATE  
STATE OF CALIFORNIA

CITY OF IMPERIAL BEACH, CALIFORNIA  
ENGINEERING DEPARTMENT  
SHEET 19 OF 40 SHEETS

FOR CITY ENGINEER		DATE		
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	SDG			
CONTRACTOR		DATE STARTED		
INSPECTOR		DATE COMPLETED		

RECORD DRAWING

REVIEW Y:

DATE:

NOTE:  
THIS DRAWING MAY BE A  
REUSE OF AN EXISTING  
DRAWING. THE ORIGINAL  
DRAWING SHALL BE  
UTILIZED. VERIFY IF A  
REVISION, AND A JUST  
DATE. A REVISION  
DATE SHALL BE  
MAINTAINED.

PROJECT NO.: 2025-02  
WBS NO.: BC-0004-01

REFERENCES:  
PROJECT ENGINEER  
CONTRACTOR  
CONSTRUCTION STARTED  
CONSTRUCTION COMPLETED  
COST INSPECTOR

REVISIONS  
DATE / APPROVED

DESIGNED: JM JJ CC  
DRAWN: CC  
CHECKED: JM JJ

APPROVAL  
RECOMMENDED  
APPROVED  
DISTRICT MANAGER - DESIGN

PROJECT MANAGER

SAN DIEGO UNIFIED PORT DISTRICT

SPLASH PAD AT PORTWOOD PIER PLAZA

IRRIGATION DEMOLITION PLAN

DATE: 5/5/2025  
SCALE: 1" = 40'  
SHEET 19 OF 40  
DRAWING NO.: IB-2025-01  
REV:



1. THE IRRIGATION SYSTEM DESIGN FOR ALL SYSTEMS IN THIS DESIGN ARE BASED ON AN AVAILABLE WATER PRESSURE OF 70 PSI (+/-10 PSI) AT CITY SERVICE. CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION AND REPORT ANY DIFFERENCES TO THE PORT OF SAN DIEGO.
2. THE IRRIGATION SYSTEM IS SHOWN DIAGRAMMATICALLY FOR CLARITY. LOCATE ALL PIPING, VALVES, BACKFLOW PREVENTERS, AND OTHER IRRIGATION EQUIPMENT WITHIN PLANTING AREAS UNLESS NOTED OR DIRECTED OTHERWISE. LOCATE ALL VALVES AND VALVE BOXES SIX INCHES FROM EDGE OF PAVING OR CURB.
3. EXISTING UTILITIES AND FIELD CONDITIONS: PRIOR TO EXCAVATION, LOCATE ALL CABLES, CONDUITS, AND UNDERGROUND UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR AN UNDERGROUND UTILITY SERVICE TO LOCATE AND MARK UTILITIES. CONTRACTOR WILL TAKE PROPER PRECAUTIONS NOT TO DAMAGE OR DISTURB SUCH UNDERGROUND IMPROVEMENTS. NOTIFY THE OWNER IMMEDIATELY IF A CONFLICT EXISTS BETWEEN SUCH OBSTACLES AND THE PROPOSED WORK. PROCEED IN SAME MANNER IF ROCK LAYERS OR ANY OTHER CONDITIONS ENCOUNTERED UNDERGROUND MAKE CHANGES ADVISABLE.
4. ALL PIPING AND WIRING UNDER ROADWAYS AND PAVING AND THROUGH WALLS SHALL BE SLEEVED.
5. USE TWO WRAPS OF THREE-QUARTER INCH (3/4") TEFLON TAPE FOR ALL THREADED VALVE CONNECTIONS.
6. AUTOMATIC IRRIGATION CONTROLLER IS TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTION OF FIELD WIRES TO APPROPRIATE TERMINAL STRIPS.
7. ADJUST ALL SPRINKLERS TO AVOID OVERSPRAY ONTO WALLS, WALKS, STREETS, UTILITY BOXES, BUILDINGS AND OTHER IMPROVEMENTS.
8. ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO THE FINISH GRADE OF THE AREA TO BE IRRIGATED UNLESS OTHERWISE DESIGNED ON THE PLANS.
9. CONTRACTOR SHALL INSTALL IN-LINE ANTI-DRAIN VALVES AS WARRANTED BY SITE CONDITIONS TO ALLEVIATE LOW HEAD DRAINAGE.
10. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS. SUCH OBSTRUCTIONS OR DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REVISIONS NECESSARY.
11. THE CONTRACTOR SHALL KEEP AN UP-TO-DATE COMPLETE "AS-BUILT" RECORD SET OF PRINTS WHICH SHALL BE UPDATED DAILY AND SHOW EVERY CHANGE FROM THE ORIGINAL DESIGN.
12. INSTALL IRRIGATION HEADS IN TURF AREAS 1" FROM WALKS AND HARDSCAPE AREAS.
13. ALL CONTROL VALVES SHALL BE MANIFOLED AND GROUPED IN ONE AREA SHOWN ON PLAN. VALVES SHALL BE SET AT RIGHT ANGLES TO EDGES. INSTALL VALVE BOXES 6" FROM EDGES OF HARDSCAPE AREAS.
14. CONTRACTOR SHALL REMOVE AND DISCARD DAILY. ALL PIPING DISTURBED DURING TRENCHING OPERATION.
15. CONTRACTOR SHALL REVIEW IRRIGATION SPECIFICATIONS PRIOR TO BEGINNING WORK. REFER TO TECHNICAL SPECIFICATIONS AND CONSTRUCTION DETAILS FOR INSTALLATION PROCEDURES.
16. CONTRACTOR SHALL HEAT BRAND ALL PLASTIC VALVES BOXES WITH THE FOLLOWING LABELS. ALL LETTERS SHALL BE ONE INCH (1") HIGH. LETTERING ON VALVE BOX LIDS SHALL BE PLACED ON THE SAME LOCATION ON EACH VALVE BOX LID, AND ALL LABELING SHALL FACE THE SAME DIRECTION.  
QUICK COUPLER VALVE BOXES SHALL BE LABELED "QVC"  
BALL VAVE BOXES "BU"
17. ALL BOLTS FOR LOCKING VALVE BOX LIDS SHALL BE STAINLESS STEEL.
18. CONTRACTOR SHALL CONTACT OWNER'S REPRESENTATIVE PRIOR TO ANY TRENCHING OPERATIONS.
19. PROVIDE CONCRETE THRUST BLOCKS ON ALL MAINLINES 2-1/2" AND GREATER, PER DETAIL AND SPECIFICATIONS. THE PORT OF SAN DIEGO SHALL BE NOTIFIED 48 HOURS (2 WORKING DAYS) PRIOR TO THE START OF CONSTRUCTION. ALL WORK PERFORMED WITHOUT BENEFIT OF INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL.
20. THE CONTRACTOR IS RESPONSIBLE FOR THE APPROPRIATE HANDLING, CROSS CONNECTION TO PVC PIPE, CONTAINMENT, AND DISPOSAL OF ASBESTOS BASED PRODUCTS. GUIDELINES ARE NOT INCLUDED WITHIN THIS SET OF PLANS. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN THIS INFORMATION, EDUCATE ALL STAFF MEMBERS AND SUB-CONTRACTORS AND CONDUCT WORK IN ACCORDANCE WITH PERFORMANCE CRITERIA SET FORTH BY LOCAL, STATE, AND FEDERAL AUTHORITIES.

2025-02	WBS NO: BC-0004-01		
S			
NUMBER			
IA			
ION_STARTED			
ION_COMPLETED			
INSPECTOR	REVISIONS	DATE / APPROVED	

Valve Callout

#

#

#

Valve Number

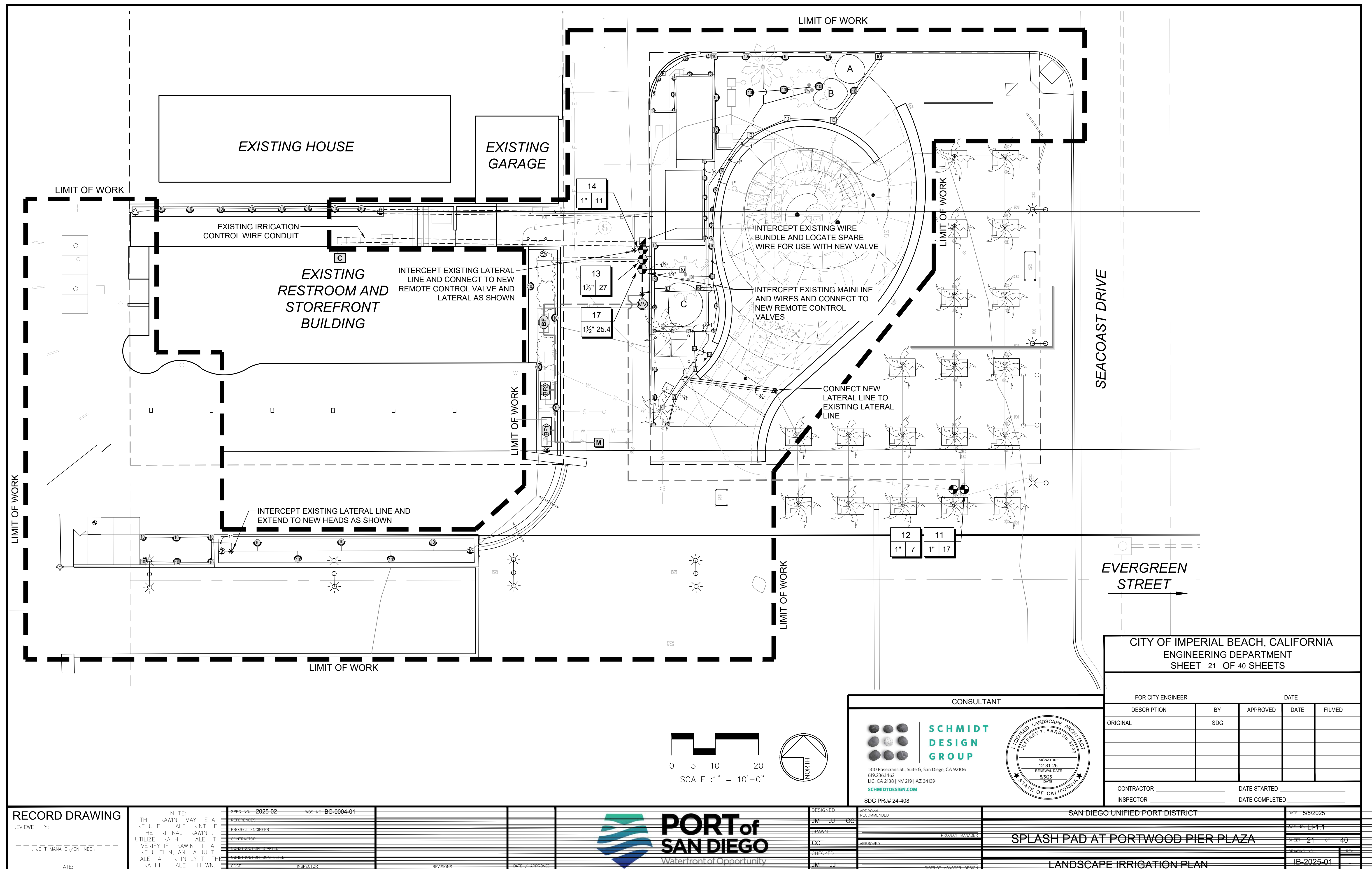
Valve Flow

Valve Size

The diagram shows a rectangular box divided into three sections. The top section contains a '#' symbol and a dot, with a line pointing to the label 'Valve Number'. The bottom-left section contains a '##' symbol and a dot, with a line pointing to the label 'Valve Flow'. The bottom-right section contains a '#' symbol and a dot, with a line pointing to the label 'Valve Size'.

RECORD DRAWING		N. TE: THI \AWIN MAY E A \E U E \ALE \INT F THE \I \NAL \AWIN . UTILIZE \A HI \ALE T VE \IFY IF \AWIN I A \E U TI N, \AN A JU T ALE A \IN LY T TH \A HI \ALE H WN.		SPEC. NO.: 2025-02 WBS NO.: BC-0004-01 REFERENCES PROJECT ENGINEER CONTRACTOR CONSTRUCTION STARTED CONSTRUCTION COMPLETED CRIST ASPECTOR		REVISIONS DATE / APPROVED		 <b>PORT of SAN DIEGO</b> <i>Waterfront of Opportunity</i>		DESIGNED JM JJ CC DRAWN CC CHECKED JM JJ APPROVAL RECOMMENDED APPROVED DISTRICT MANAGER - DESIGN		SAN DIEGO UNIFIED PORT DISTRICT DATE 5/5/2025 FILE NO. L1-1-0 SHEET 20 OF 40 DRAWING NO. REV IB-2025-01		SPLASH PAD AT PORTWOOD PIER PLAZA LANDSCAPE IRRIGATION LEGEND AND NOTES	
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PLANTING NOTES:

1. FINISHED GRADES SHALL BE SMOOTHED TO ELIMINATE PONDING, OR STANDING WATER. CONTRACTOR SHALL MAINTAIN A MINIMUM 1.5% DRAINAGE AWAY FROM BUILDINGS AND PAVING INTO DRAINAGE STRUCTURES OR TO STREET (SEE ENGINEERS' GRADING AND DRAINAGE PLAN). CONTRACTOR SHALL NOTIFY PORT CONSTRUCTION MANAGER IMMEDIATELY OF ANY CONFLICTS IN MAINTAINING DRAINAGE.
2. THE PORT OF SAN DIEGO SHALL APPROVE ALL FINISH GRADING PRIOR TO PLACEMENT OF ANY PLANT MATERIAL.
3. CONTRACTOR SHALL IMMEDIATELY, UPON THE AWARD OF THE CONTRACT, ORDER, LOCATE AND PURCHASE (OR HAVE HELD) ALL PLANT MATERIAL REQUIRED BY THESE PLANS AND SPECIFICATIONS.
4. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE & LANDSCAPE ARCHITECT FOR OBSERVATION AT INSPECTION STAGES LISTED ON T-1.0.
5. SOIL AMENDMENTS SPECIFIED ARE FOR BIDDING PURPOSES ONLY. ACTUAL TYPES AND QUANTITIES WILL BE BASED ON SOIL ANALYSIS PROVIDED BY CONTRACTOR. SOIL SAMPLES SHALL BE PER SPECIFICATION SECTION 32 91 13 'SOIL PREPARATION':

5.1. BID MIX FOR TURF AND SHRUB BED AREAS:

5.2. SOIL AMENDMENTS BID MIX SHALL BE THE FOLLOWING PER 1000 SQUARE FEET:

5.2.1. 6 CU. YDS. NITROGEN STABILIZED ORGANIC AMENDMENT 'HUMIC COMPOST' BY AGRISERVICE OR APPROVED EQUAL

5.2.2. 40 LBS. GRO-POWER PLUS

5.2.3. 100 LBS. GYPSUM

5.2.4. SEE SPECIFICATIONS FOR ADDITIONAL TOPSOIL IMPORT REQUIREMENTS FOR TURF AREAS.

5.3. PLANTING AND BACKFILL MIX FOR PLANT PITS AND TABLETS SHALL BE AS FOLLOWS PER CUBIC YARD:

5.3.1. 70% OF NATIVE SOIL

5.3.2. 30% NITROGEN STABILIZED ORGANIC AMENDMENT 'HUMIC COMPOST' BY AGRISERVICE OR APPROVED EQUAL

5.3.3. 16 LBS GRO-POWER PLUS

5.3.4. 2 LBS. FERROUS SULFATE
- THOROUGHLY BLEND THE ABOVE AT A CENTRAL OFF-SITE LOCATION PRIOR TO USE. THE FERROUS SULFATE SHOULD NOT CONTACT PAVING SURFACES AS STAINING WILL RESULT.
6. SEE PLANTING SPECIFICATIONS FOR PRE-EMERGENT TREATMENT OF SOIL.
7. PLANTS SHALL BE INSTALLED WITH TRIANGULAR SPACING.
8. PLANT SYMBOLS TAKE PRECEDENCE OVER PLANT QUANTITIES SPECIFIED. CONTRACTOR SHALL VERIFY PLANT TOTALS FOR BID PURPOSES.
9. PRIOR TO PLANTING, IRRIGATION SYSTEM SHALL BE FULLY OPERATIONAL.
10. PLANT MATERIAL MAY BE REJECTED AT ANY TIME BY OWNER'S REPRESENTATIVES DUE TO CONDITION, FORM OR DAMAGE BEFORE OR AFTER PLANTING.

ALL NEW TREES WITHIN 10' OF HARDSCAPE SHALL BE INSTALLED WITH A ROOT BARRIER. ROOT BARRIER SHALL BE INSTALLED ADJACENT TO HARDSCAPE SURFACE FOR A DISTANCE OF 10' FROM THE CENTER LINE OF THE TREE TRUNK IN BOTH DIRECTIONS, OR AS INDICATED ON PLAN. ROOT BARRIER TO BE MANUFACTURED BY "DEEPROOT" OR APPROVED EQUAL

11. PLANTING TABLETS SHALL BE GRO-POWER PLANTING TABLETS 20-10-5 PER GB/WB (12 MONTH SLOW RELEASE FORMULATION).
12. ALL PLANTING BEDS, INCLUDING SLOPES 2:1 OR LESS, SHALL HAVE 3" (THREE INCH) THICK MULCH LAYER. "MULCH" SHALL BE 'FOREST FINES' LANDSCAPE MULCH FROM AGRISERVICE OR APPROVED EQUAL. PH.(800) 262-4167. MULCH SHALL BE FREE OF STICKS, STONES, CLAY OR OTHER FOREIGN MATERIAL. CONTRACTOR SHALL SUBMIT SAMPLE TO OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO INSTALLATION.

12.1. NOTE: ALL REQUIRED PLANTING AREAS AND ALL EXPOSED SOIL AREAS WITHOUT VEGETATION SHALL BE COVERED WITH MULCH TO A MINIMUM DEPTH OF 3 INCHES, EXCLUDING SLOPES REQUIRING RE-VEGETATION.
13. AT COMPLETION OF THE ESTABLISHMENT PERIOD, APPLY COMMERCIAL FERTILIZER (15-15-15) AT 2LBS/1000SF TO TURF AREAS ONLY AND WATER IMMEDIATELY WITH A THOROUGH IRRIGATION CYCLE.
14. MINIMUM TREE SEPARATION DISTANCE:

14.1 UNDERGROUND UTILITY LINES - 5 FEET (10' FOR SEWER)

14.2 ABOVE GROUND UTILITY STRUCTURES - 10 FEET
15. FOR REMOVAL AND RELOCATION (TRANSPLANTING) OF EXISTING PALM TREE, THE CONTRACTOR MUST COMPLY WITH THE FOLLOWING REQUIREMENTS:

15.1. THE TREE SHALL BE TRANSPLANTED ONLY ONCE FROM EXISTING LOCATION TO PERMANENT POSITIONS AS SHOWN ON DRAWINGS.

15.2. DIGGING, WRAPPING AND HANDLING: PALM TREE SHALL BE DUG AND PREPARED FOR MOVING IN A MANNER THAT WILL NOT CAUSE DAMAGE TO BRANCHES, SHAPE, ROOT SYSTEM, AND DEVELOPMENT.

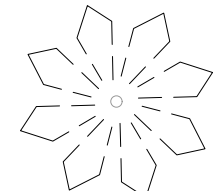
15.3. BALLED AND BURLAPPED (NO LESS THAN 72" BALL): BALL SHALL BE FIRMLY WRAPPED WITH BURLAP OR APPROVED CLOTH SUBSTITUTE. THE TREE WILL NOT BE ACCEPTABLE IF THE BALL IS CRACKED AND BROKEN, OR IF THE STEM OR TRUNK IS LOOSE IN THE BALL, EITHER BEFORE OR DURING TRANSPLANTING. BALLED PLANTS SHALL BE LIFTED AND HANDLED FROM THE BOTTOM OF THE BALL, PROPERLY PROTECTED AND STORED FOR THE REPLANTING LOCATION, TO BE PLANTED IMMEDIATELY AND WATERED THOROUGHLY.

15.4. THE TREE IDENTIFIED FOR RELOCATION SHALL BE CLEARLY MARKED BY MEANS OF YELLOW PLASTIC SURVEYORS' RIBBONS AND COORDINATED WITH THE LANDSCAPE ARCHITECT AND PORT PRIOR TO ROOT PRUNING AND/OR DIGGING

15.5. PALM TREE SHALL BE STAKED AND GUYED AFTER PLANTING.

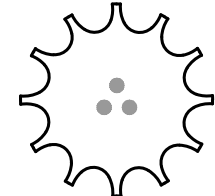
PLANTING LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QTY	DETAIL
TREES					



EXISTING PALM TO BE RELOCATED  
SEE PLANTING NOTE #15

EXISTING1L-07/LP-2.



YUCCA ELEPHANTIPESGIANT YUCCA MULTI-TRUNK24" BOX3L-01/LP-2.

SHRUBS



AGAVE X 'BLUE FLAME'BLUE FLAME AGAVE5 GAL12L-02/LP-2.



ALOE PLICATILISFAN ALOE5 GAL4



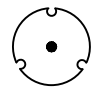
ALOE STRIATACORAL ALOE5 GAL24



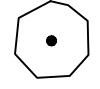
CALLIANDRA CALIFORNICARED BAJA FAIRY DUSTER5 GAL5



GLANDULARIA LILACINA 'DE LA MINA'DE LA MINA CEDROS ISLAND VERBENA5 GAL10



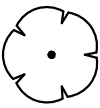
LEUCADENDRON SALIGNUM 'BLUSH'BLUSH CONEBUSH5 GAL3



LIGUSTRUM JAPONICUMJAPANESE PRIVET5 GAL4



LOMANDRA LONGIFOLIA 'PLATINUM BEAUTY'MAT RUSH5 GAL55

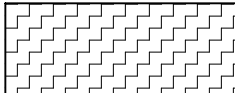


STRELITZIA NICOLAI GIANT BIRD OF PARADISE15 GAL2

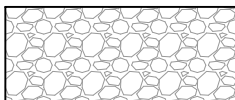
SYMBOL	BOTANICAL NAME	COMMON NAME	CONT	SPACING	DETAIL
GROUND COVERS					



ERIGERON GLAUCUS 'WAYNE RODERICK'WAYNE RODERICK SEASIDE DAISY1 GAL18" o.c.L-02/LP-2.



LESSINGIA FILAGINIFOLIA 'SILVER CARPET'SILVER CARPET ASTER1 GAL42" o.c.



ANGULAR COBBLE. SEE CONSTRUCTION PLANS

----- ROOT BARRIER -----L-06/LP-2.

RECORD DRAWING

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

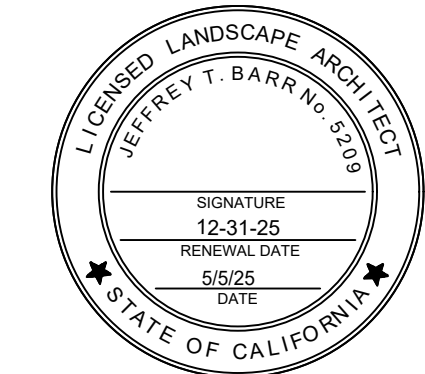
THIS DRAWING MAY BE A  
REUSE OF AN EXISTING  
DRAWING. THE ORIGINAL  
DRAWING SHALL BE  
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DRAWING ROOM.  
ALL CHANGES SHALL BE  
MADE BY THE  
DESIGNER.  
THIS DRAWING IS THE  
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IT IS TO BE USED ONLY FOR  
THE PROJECT FOR WHICH  
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IT IS NOT TO BE REPRODUCED  
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PORT OF SAN DIEGO OR ITS  
OFFICERS, EMPLOYEES, OR  
AGENTS, IN CONNECTION  
WITH THE USE OF THIS  
DRAWING.

SPEC. NO. 2025-02	WBS NO. BC-0004-01
REFERENCES	
PROJECT ENGINEER	
CONTRACTOR	
CONSTRUCTION STARTED	
CONSTRUCTION COMPLETED	
COST	INSPECTOR

REVISIONS	DATE / APPROVED
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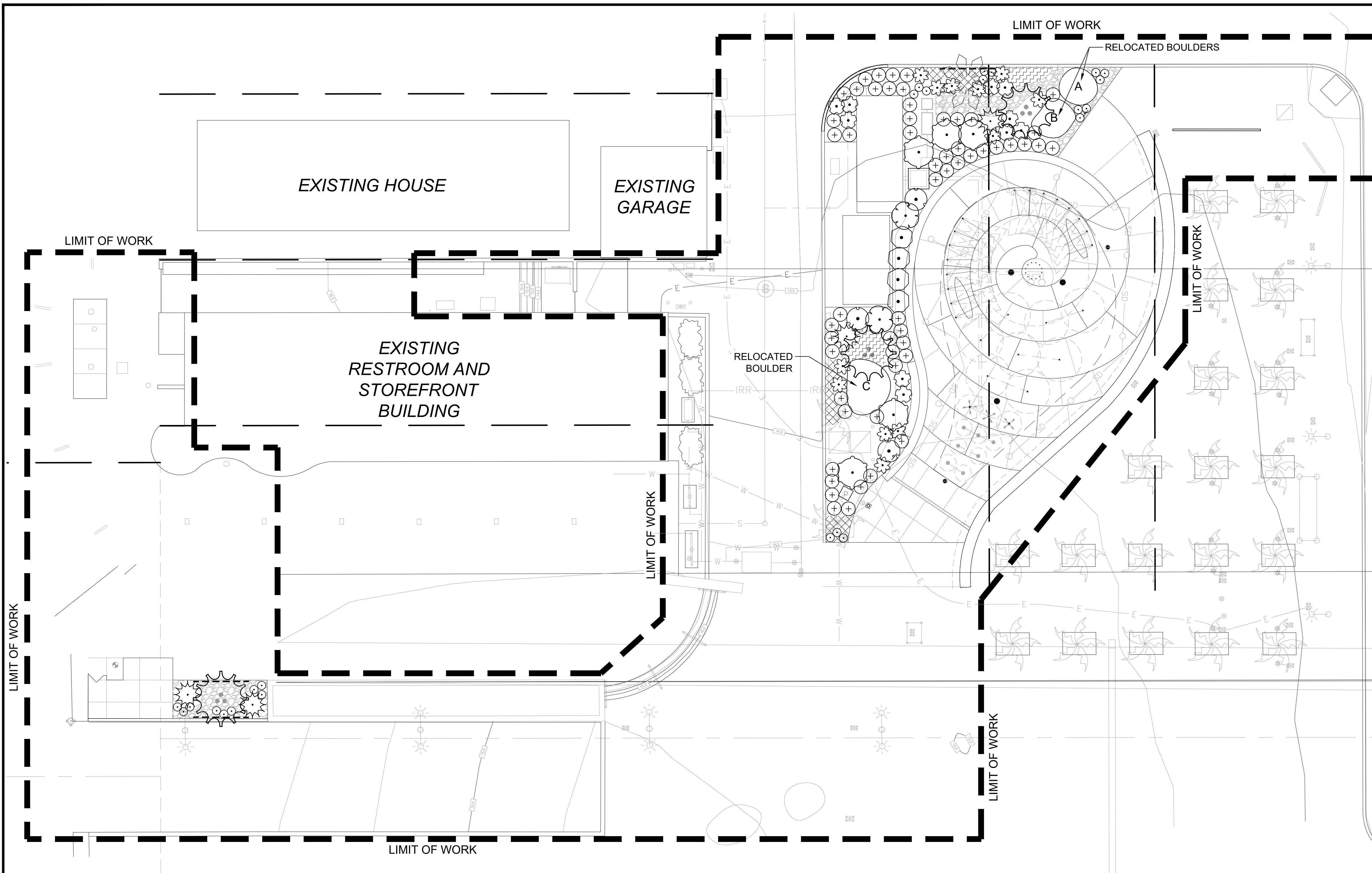
DESIGNED	JM JJ CC
DRAWN	
CC	
CHECKED	
JM JJ	



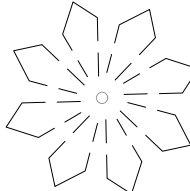
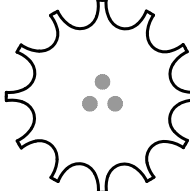

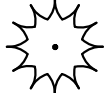

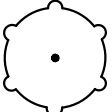





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619.236.1462  
LIC. CA 2138 | NV 219 | AZ 34139  
SCHMIDTDESIGN.COM  
SDG PRJ# 24-408

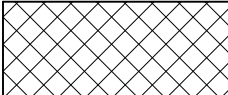
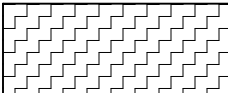
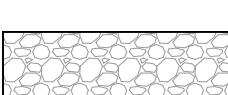

SAN DIEGO UNIFIED PORT DISTRICT					DATE 5/5/2025
SPLASH PAD AT PORTWOOD PIER PLAZA					DATE NO. LP-1.0
LANDSCAPE PLANTING LEGEND AND NOTES					SHEET 22 OF 40
					DRAWING NO. IB-2025-01





## PLANT SCHEDULE

<u>SYMBOL</u>	<u>BOTANICAL NAME</u>
<u>TREES</u>	
	EXISTING PALM TO BE RELOCATED SEE PLANTING NOTE #15
	YUCCA ELEPHANTIPES
<u>SHRUBS</u>	
	AGAVE X 'BLUE FLAME'
	ALOE PLICATILIS
	ALOE STRIATA
	CALLIANDRA CALIFORNICA
	GLANDULARIA LILACINA 'DE LA MINA'
	LEUCADENDRON SALIGNUM 'BLUSH'
	LIGUSTRUM JAPONICUM
	LOMANDRA LONGIFOLIA 'PLATINUM BEAUTY'
	STRELITZIA NICOLAI

<u>SYMBOL</u>	<u>BOTANICAL NAME</u>
	ERIGERON GLAUCUS 'WAYNE RODERICK'
	LESSINGIA FILAGINIFOLIA 'SILVER CARPET'
	ANGULAR COBBLE. SEE CONSTRUCTION PLANS
	ROOT BARRIER

SEE SHEET LP-1.0 FOR FULL PLANTING LEGEND

CITY OF IMPERIAL BEACH, CALIFORNIA  
ENGINEERING DEPARTMENT  
SHEET 23 OF 40 SHEETS

FOR CITY ENGINEER		DATE		
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	SDG			
CONTRACTOR _____		DATE STARTED _____		
INSPECTOR _____		DATE COMPLETED _____		

SAN DIEGO UNIFIED PORT DISTRICT

DATE	5/5/2025
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## SPLASH PAD AT PORTWOOD PIER PLAZA

A/E NO. LP-1.1

SHEET 23 OF 41

## LANDSCAPE PLANTING PLAN

IB-2025-01
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IN DOCUMENT

100% CONSTRUCTION DOCUMENTS

RECORD DRAWING

REVIEWED BY:

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 \ JE T MANA E \ / EN INEE \

ATE:

NOTE:  
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SPEC NO.	2025-02
REFERENCES	
PROJECT ENGINEER	
CONTRACTOR	
CONSTRUCTION STARTED	
CONSTRUCTION COMPLETE	
COST	

WBS NO. BC-0004-0

REVISIONS


DATE / APPROVED \_\_\_\_\_



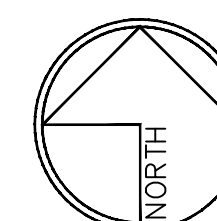
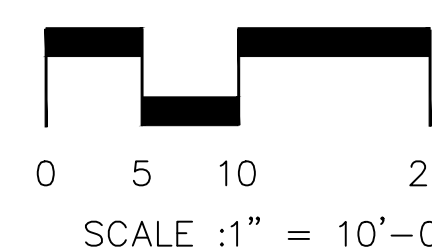
**PORT of  
SAN DIEGO**  
Waterfront of Opportunity

DESIGNED			
JM	JJ	CC	
DRAWN			
CC			
CHECKED			
JM	JJ		

	APPROVAL
	RECOMMENDED
	PROJECT MANAGER
	APPROVED
	DISTRICT MANAGER - DESH

		SAN D
R		SPLASH PAD
N		LANDS

MIEGO UNIFIED PORT DISTRICT		DATE: 5/5/2025
AT PORTWOOD PIER PLAZA		FILE NO. LP-1.1
CAPE PLANTING PLAN		SHEET 23 OF 40
		DRAWING NO. REV.
		IB-2025-01



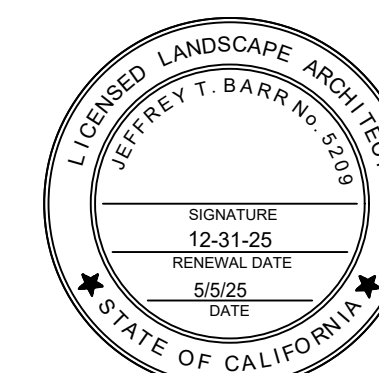
CONSULTANT



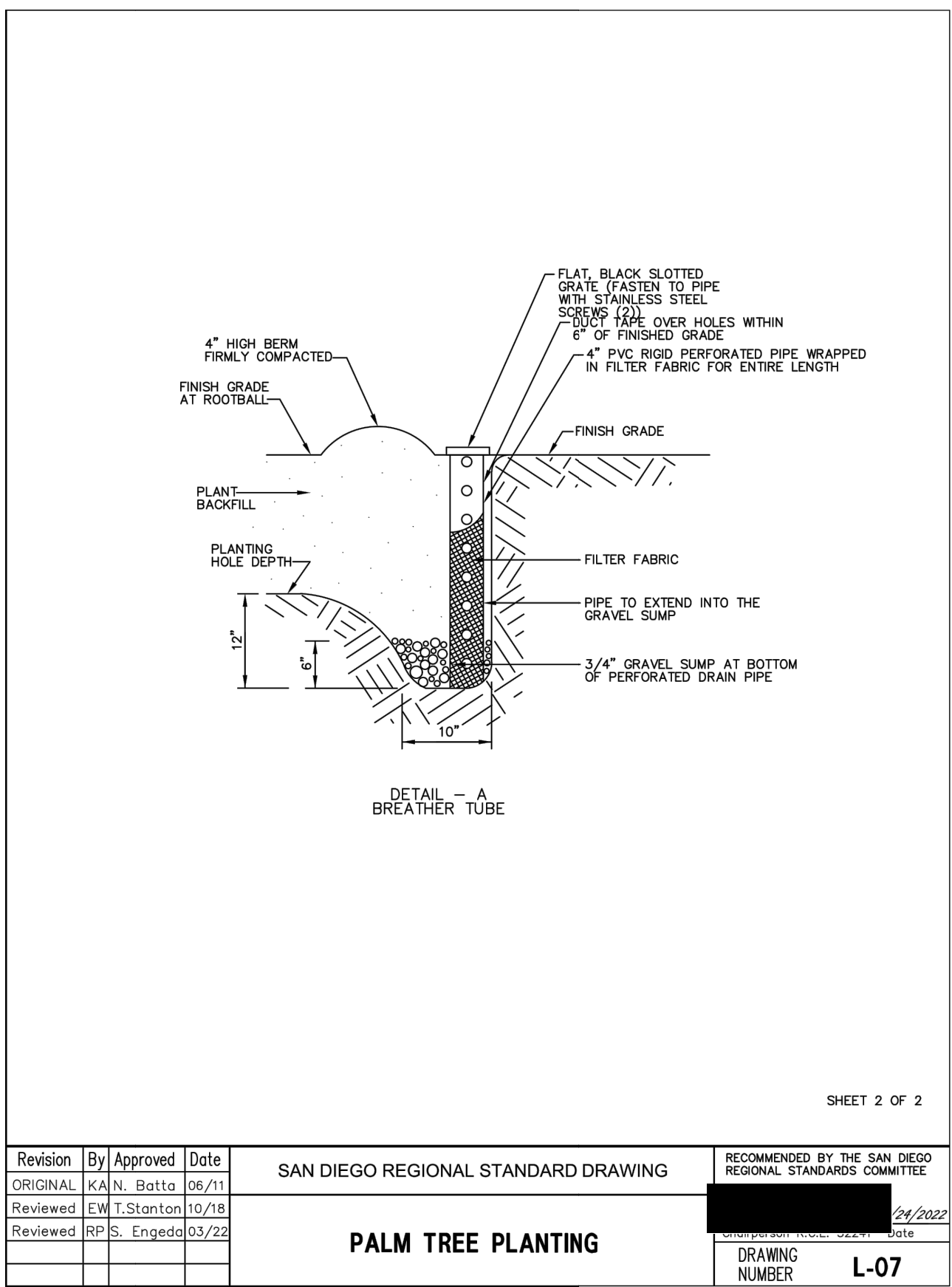
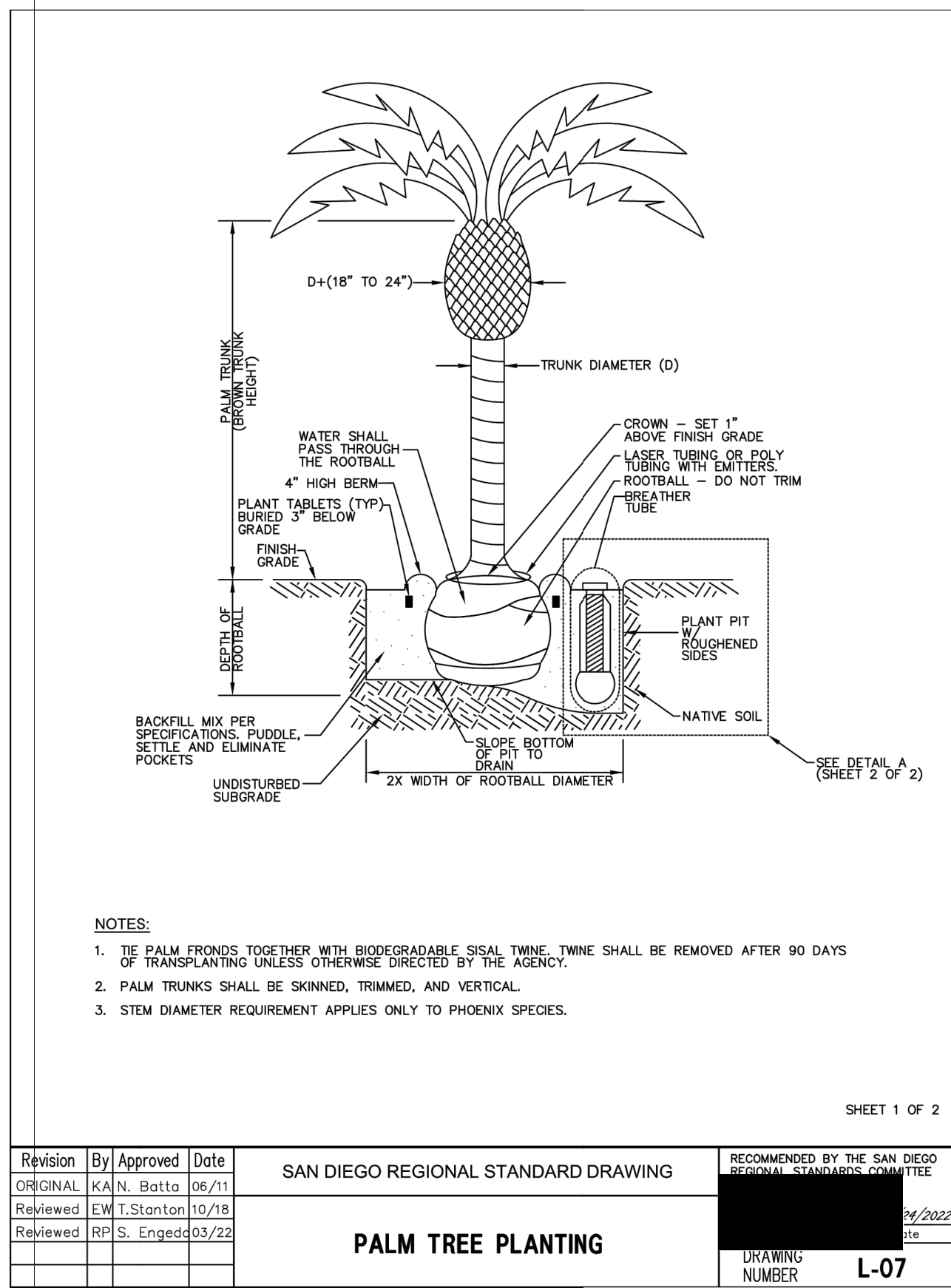
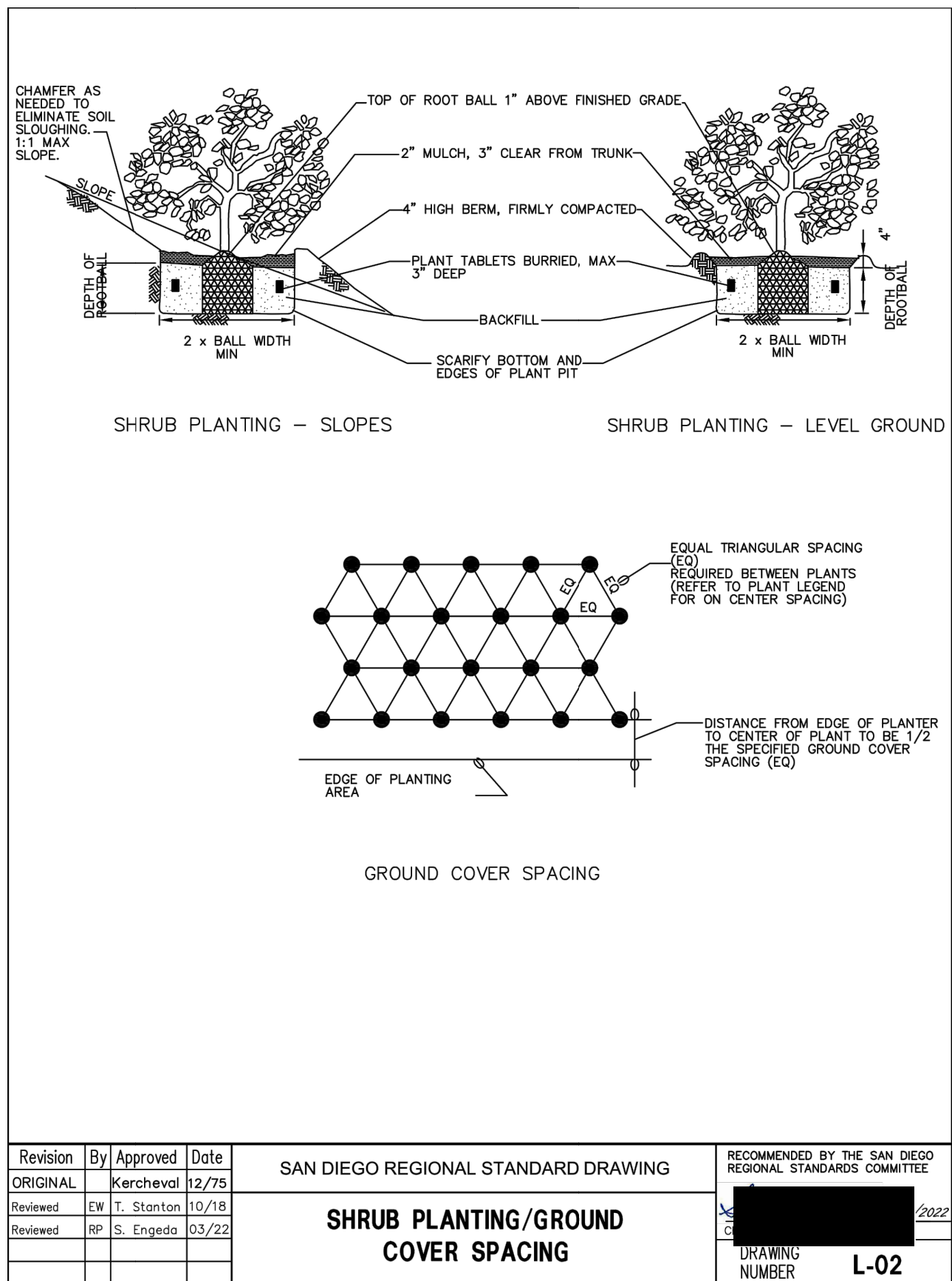
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DESIGN  
GROUP

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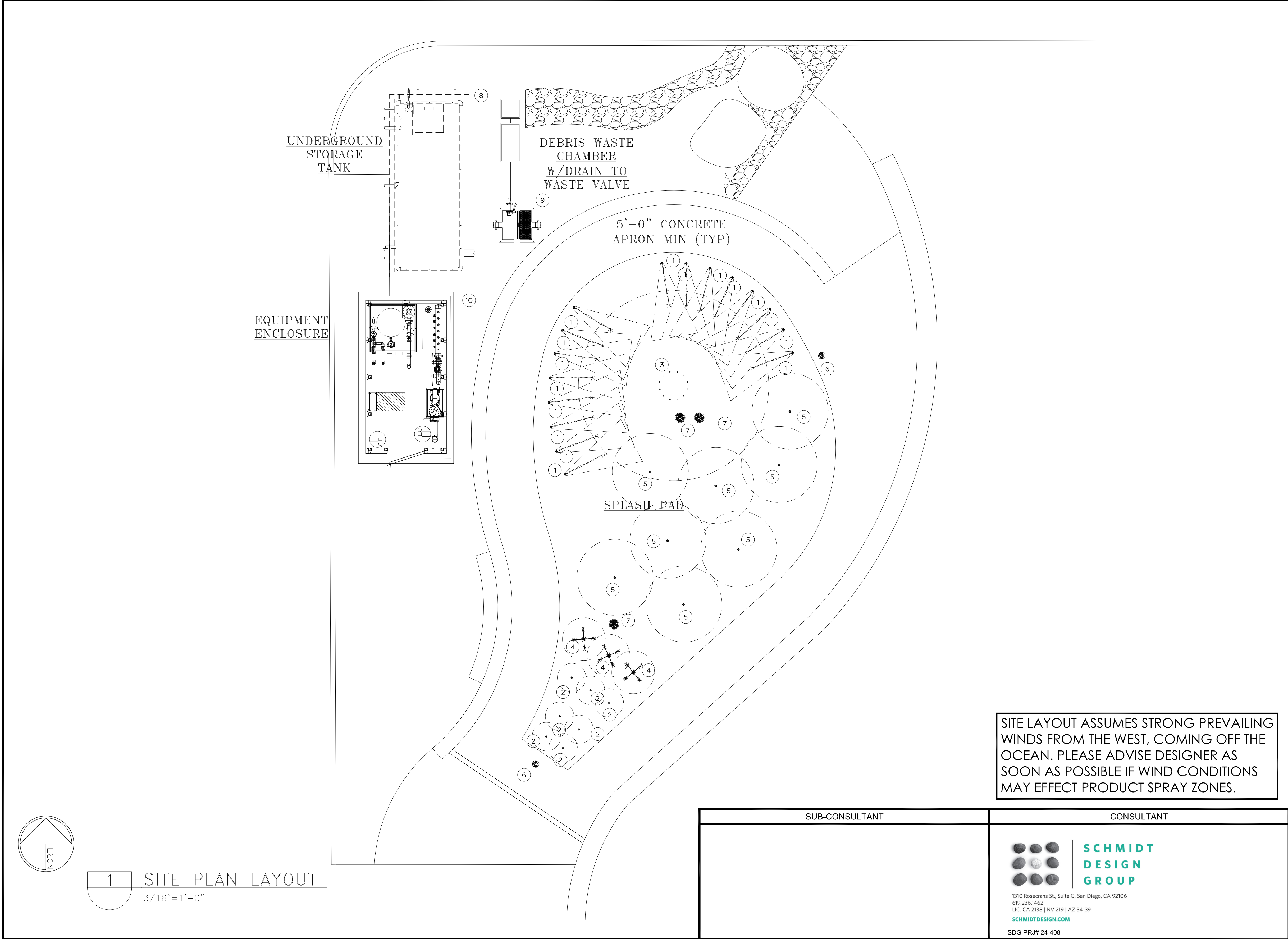
<b>CITY OF IMPERIAL BEACH, CALIFORNIA</b> <b>ENGINEERING DEPARTMENT</b> <b>SHEET 24 OF 40 SHEETS</b>				
FOR CITY ENGINEER _____		DATE _____		
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	SDG			
CONTRACTOR _____		DATE STARTED _____		
INSPECTOR _____		DATE COMPLETED _____		







May 05, 2025 - 3:51pm K:\ARC\Projects\2025 Projects\1190563-01-01 or 1190144-01-04 1B Splash pad Design (Imperial Beach, CA) SO-01013455\Design\1190144-RE.dwg



SITE LAYOUT ASSUMES STRONG PREVAILING WINDS FROM THE WEST, COMING OFF THE OCEAN. PLEASE ADVISE DESIGNER AS SOON AS POSSIBLE IF WIND CONDITIONS MAY EFFECT PRODUCT SPRAY ZONES.

NO	PRODUCT (DETAIL)	QTY	GPM	LINE SIZE
1	ARCH JET (3/SHEET 38)	16	5 EA	1" EA
2	BUBBLER (4/SHEET 38)	7	1 EA	1" EA
3	MINI OUTWARD SPRAY RING (7/SHEET 38)	1	60 EA	2½" EA
4	SEA CRAWLER (5/SHEET 38)	3	5 EA	1" EA
5	STREAM JET (6/SHEET 38)	8	10 EA	1" EA
6	STEP PAD ACTIVATOR (5/SHEET 39)	1	-	-
7	DRAIN BOX (8/SHEET 38)	3	120 EA	6" EA
8	STORAGE TANK (SHEET 37)	1	-	-
9	DEBRIS WASTE CHAMBER (SHEET 30) W/ DRAIN TO WASTE VALVE	1	-	-
10	MECHANICAL ENCLOSURE (1/SHEET 39)	1	-	-

\*AVAILABLE THRU AQUATIX (TAYLOR SMITH, 909-767-0201 TSMITH@COASTRECREATION.NET) OR APPROVED EQUAL.\*

NOTE: SPLASH PAD SHALL HAVE NON-SLIP FINISH AND SHALL HAVE 1% MIN SLOPE AND 2% MAX SLOPE TO DRAINS. REFER TO LANDSCAPE DRAWINGS FOR FINISH AND COLORS.

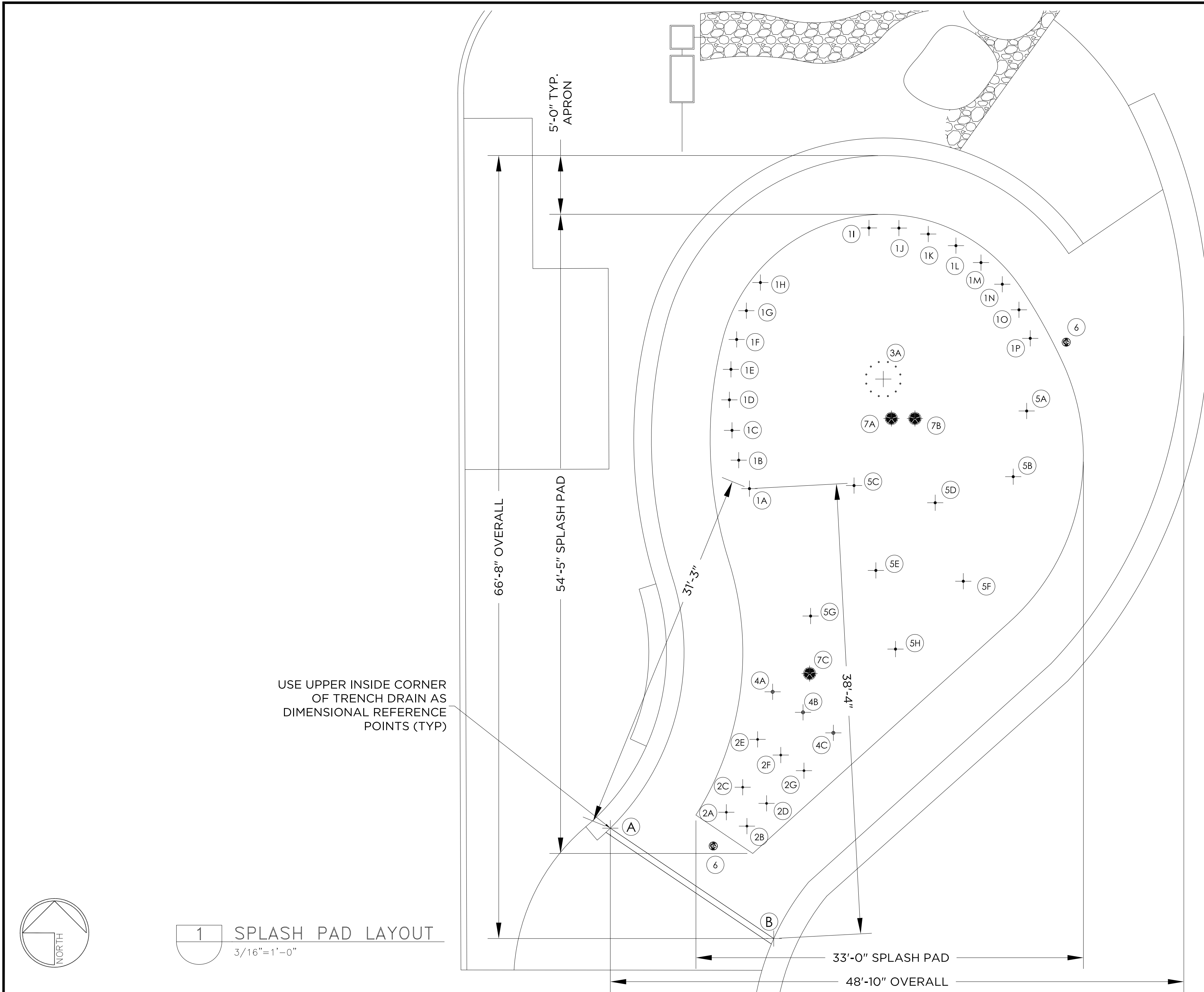
- SITE ELEVATIONS OF SPLASH PAD AND CONCRETE APRON TO BE VERIFIED BY INSTALLER.
- SURFACE MOUNTED STRUCTURES MAY REQUIRE A FLAT/LEVEL SURFACE FOR PROPER INSTALLATION. SEE INDIVIDUAL STRUCTURE MOUNTING INSTALLATION INSTRUCTIONS.
- ACTUAL SIZE, SHAPE, AND LOCATION OF SPLASH PAD TO BE FIELD DETERMINED BY INSTALLER. THE INTENT OF A SPLASH PAD IS TO BE A DRY DECK WITH NO STANDING WATER. THE WATER IS TO BE CONTAINED WITHIN THE PERIMETER OF THE SPLASH PAD AND ALL WATER IS TO DRAIN INTO THE DRAINAGE BOX. THE CONCRETE IS TO BE FORMED AND SLOPED TO ACCOMMODATE THIS DRAIN PATTERN.
- UNDER NO CIRCUMSTANCES SHALL THE SURROUNDING HARDSCAPE AREA BE SLOPED TO ALLOW WATER TO BE DRAINED INTO THE SPLASH PAD DECK.
- ALL CONCRETE SURFACES TO HAVE A NON-SLIP FINISH. SEE LANDSCAPE PLANS.
- SUB-CUT EXCAVATION UNDER SPLASH PAD 18" MIN FOR GRANULAR FILL.
- COORDINATE EXPANSION JOINT AND SAW CUT LOCATIONS WITH PLAY EQUIPMENT LOCATIONS.
- SEE SHEET 27 FOR SPLASH PAD LAYOUT.
- SEE SHEET 28 FOR CONCRETE LAYOUT.
- DRAWINGS ARE FOR DESIGN/LAYOUT PURPOSES ONLY. PLEASE SEE PROJECT SCOPE FOR INCLUDED STRUCTURES, EQUIPMENT, SERVICES, AND EXCLUSIONS.
- INDICATES SPLASH ZONE.
- SPLASH ZONES ARE APPROXIMATE. ACTUAL SPLASH ZONE MAY VARY BASED ON VARIOUS ENVIRONMENTAL CONDITIONS, FLOW RATES, SLOPE OF THE SPLASH PAD, SUBMERGENCE DEPTH AND WIND.

CITY OF IMPERIAL BEACH, CALIFORNIA ENGINEERING DEPARTMENT SHEET 26 OF 40 SHEETS				
FOR CITY ENGINEER		DATE		
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL				
CONTRACTOR		DATE STARTED		
INSPECTOR		DATE COMPLETED		
SAN DIEGO UNIFIED PORT DISTRICT				DATE 4/14/2025
SPLASH PAD AT PORTWOOD PIER PLAZA				A/E NO. A-1.2
SPLASH PAD SITE PLAN				SHEET 26 OF 40
				DRAWING NO. IB-2025-01
				REV. -

RECORD DRAWING		NOTE: THIS DRAWING MAY BE A REDUCED SCALE PRINT OF THE ORIGINAL DRAWING. UTILIZE GRAPHIC SCALES TO VERIFY IF DRAWING IS A REDUCTION, AND ADJUST SCALES ACCORDINGLY TO THE GRAPHIC SCALES SHOWN.		SPEC NO. 2025-02 WBS NO. BC-0004-01		REFERENCES		PROJECT ENGINEER		CONTRACTOR		CONSTRUCTION STARTED		CONSTRUCTION COMPLETED		COST		INSPECTOR		REVISIONS		DATE / APPROVED		DESIGNED JM JJ CC		DRAWN CC		CHECKED JM JJ		APPROVAL RECOMMENDED		PROJECT MANAGER		APPROVED		DISTRICT MANAGER-DESIGN		SAN DIEGO UNIFIED PORT DISTRICT		SPLASH PAD AT PORTWOOD PIER PLAZA		SPLASH PAD SITE PLAN		DATE 4/14/2025		A/E NO. A-1.2		SHEET 26 OF 40		DRAWING NO. IB-2025-01		REV. -	
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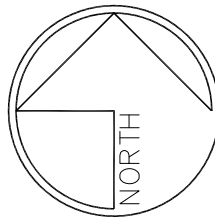




NO	PRODUCT	A	B
1A	ARCH JET	31'-3"	38'-4"
1B	ARCH JET	33'-2"	40'-10"
1C	ARCH JET	35'-5"	43'-5"
1D	ARCH JET	37'-10"	46'-0"
1E	ARCH JET	40'-4"	48'-7"
1F	ARCH JET	42'-11"	51'-1"
1G	ARCH JET	45'-6"	53'-6"
1H	ARCH JET	48'-2"	55'-10"
1I	ARCH JET	55'-7"	61'-0"
1J	ARCH JET	56'-8"	61'-5"
1K	ARCH JET	57'-4"	61'-5"
1L	ARCH JET	57'-8"	61'-0"
1M	ARCH JET	57'-7"	60'-2"
1N	ARCH JET	57'-1"	59'-0"
1O	ARCH JET	56'-2"	57'-5"
1P	ARCH JET	54'-11"	55'-7"
2A	BUBBLER	10'-0"	11'-6"
2B	BUBBLER	11'-8"	9'-10"
2C	BUBBLER	11'-10"	13'-2"
2D	BUBBLER	13'-6"	11'-6"
2E	BUBBLER	14'-8"	17'-0"
2F	BUBBLER	15'-9"	15'-8"
2G	BUBBLER	17'-2"	14'-6"
3A	MINI OUTWARD SPRAY RING	44'-8"	48'-5"
4A	SEA CRAWLER	18'-0"	21'-0"
4B	SEA CRAWLER	19'-2"	19'-5"
4E	SEA CRAWLER	20'-8"	18'-3"
5A	STREAM JET	50'-2"	49'-9"
5B	STREAM JET	45'-6"	44'-3"
5C	STREAM JET	35'-9"	39'-2"
5D	STREAM JET	39'-2"	39'-7"
5E	STREAM JET	31'-6"	32'-6"
5F	STREAM JET	36'-8"	34'-5"
5G	STREAM JET	24'-10"	27'-7"
5H	STREAM JET	28'-8"	26'-9"
7A	DRAIN BOX	24'-3"	45'-4"
7B	DRAIN BOX	43'-5"	45'-10"
7C	DRAIN BOX	21'-6"	22'-9"

NO	PRODUCT (DETAIL)	QTY	GPM	LINE SIZE
1	ARCH JET (3/SHEET 38)	16	5 EA	1" EA
2	BUBBLER (4/SHEET 38)	7	1 EA	1" EA
3	MINI OUTWARD SPRAY RING (7/SHEET 38)	1	60 EA	2 ½" EA
4	SEA CRAWLER (5/SHEET 38)	3	5 EA	1" EA
5	STREAM JET (6/SHEET 38)	8	10 EA	1" EA
6	STEP PAD ACTIVATOR (5/SHEET 39)	1	-	-
7	DRAIN BOX (8/SHEET 38)	3	120 EA	6" EA
8	STORAGE TANK (SHEET 37)	1	-	-
9	DEBRIS WASTE CHAMBER (SHEET 30) W/ DRAIN TO WASTE VALVE	1	-	-
10	MECHANICAL ENCLOSURE (1/SHEET 39)	1	-	-

\*AVAILABLE THRU AQUATIX (TAYLOR SMITH, 909-767-0201  
TSMITH@COASTRECREATION.NET) OR APPROVED EQUAL.\*



## 1 SPLASH PAD LAYOUT

SUB-CONSULTANT	

# RECORD DRAWING

REVIEWED BY: \_\_\_\_\_

\_\_\_\_\_  
PROJECT MANAGER/ENGINEER

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

NOTE:  
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THE ORIGINAL DRAWING.  
UTILIZE GRAPHIC SCALES TO  
VERIFY IF DRAWING IS A  
REDUCTION, AND ADJUST  
SCALES ACCORDINGLY TO THE  
GRAPHIC SCALES SHOWN.

SPEC NO. 2025-02	WBS NO. BC-0004-01
REFERENCES	
PROJECT ENGINEER	
CONTRACTOR	
CONSTRUCTION STARTED	
CONSTRUCTION COMPLETED	
COST	INSPECTOR

REVISIONS	DATE / APPROVED



DESIGNED		
JM	JJ	CC
DRAWN		
CC		
CHECKED		
JM	JJ	

APPROVAL RECOMMENDED	
	PROJECT MANAGER
APPROVED	
	DISTRICT MANAGER-DESIGN

SAN DIEGO UNIFIED PORT DISTRICT
SPLASH PAD AT PORTWOOD PIER PLAZA
SPLASH PAD LAYOUT

DATE 4/14/2025	
A/E NO. A-1.3	
SHEET 27	OF 40
DRAWING NO. IB-2025-01	REV. -

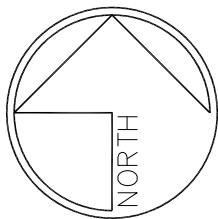
CITY OF IMPERIAL BEACH, CALIFORNIA  
ENGINEERING DEPARTMENT  
SHEET 27 OF 40 SHEETS

FOR CITY ENGINEER		DATE		
DESCRIPTION	BY	APPROVED	DATE	FILME
ORIGINAL				
CONTRACTOR _____		DATE STARTED _____		
INSPECTOR _____		DATE COMPLETED _____		

The image shows the logo for Schmidt Design Group. On the left is a circular emblem containing nine dark, textured spheres arranged in a 3x3 grid. To the right of the emblem is a vertical line, followed by the text "SCHMIDT DESIGN GROUP" in a bold, sans-serif font. Below the logo, the address "1310 Rosecrans St., Suite G, San Diego, CA 92106" is listed, followed by the phone number "619.236.1462" and the fax number "LIC. CA 2138 | NV 219 | AZ 34139". The website "SCHMIDTDESIGN.COM" is also provided. At the bottom left, the text "SDG PRJ# 24-408" is visible.



May 05, 2025 - 3:53pm K:\ARC\Projects\2025 Projects\1190563-01-01 or 1190144-01-04 1B Splash pad Design (Imperial Beach, CA) SO-01013455\Design\1190144-RE.dwg



1 CONCRETE PLAN  
3/16"=1'-0"

SLOPE FINISHED SPLASH PAD  
SURFACE TO DRAINS (SEE NOTE 2)

PERIMETER OF SPLASH  
PAD (SEE NOTE 2)

PERIMETER OF APRON  
(SEE NOTE 2)

EXPANSION JOINT  
(SEE NOTE 7)  
(SEE DETAIL 2/29)

SAW CUT JOINT  
(SEE NOTE 6)  
(SEE DETAIL 4/29)

SEE SHEET 6 FOR  
CONCRETE SLOPES AND  
ELEVATIONS

PERIMETER OF  
SPLASH PAD.  
(SEE NOTE 2)

- NOTE:
1. ALL CONCRETE SLOPES TO BE 2% MAX.
  2. SITE ELEVATIONS OF SPLASH PAD AND CONCRETE APRON TO BE VERIFIED BY INSTALLER.
  3. SURFACE MOUNTED STRUCTURES MAY REQUIRE A FLAT/LEVEL SURFACE FOR PROPER INSTALLATION. SEE INDIVIDUAL STRUCTURE MOUNTING INSTALLATION INSTRUCTIONS.
  4. REFER TO SPEC SHEET AND INSTALLATION DRAWING FOR EACH PRODUCT.
  5. ACTUAL SIZE, SHAPE, AND LOCATION OF SPLASH PAD TO BE FIELD DETERMINED BY THE CONTRACTOR. ALL DIMENSIONS OF SIZE AND SHAPE OF SPLASH PAD FOR REFERENCE ONLY.
  6. — — — INDICATES SAW CUT JOINT
  7. ———— INDICATES EXPANSION JOINT
  8. THE INTENT OF A SPLASH PAD IS TO BE A DRY DECK WITH NO STANDING WATER. THE WATER IS TO BE CONTAINED WITHIN THE PERIMETER OF THE SPLASH PAD AND ALL WATER IS TO DRAIN INTO THE COLLECTOR BOX(S). THE CONCRETE IS TO BE FORMED AND SLOPED TO ACCOMMODATE THIS DRAIN PATTERN.
  9. ALL TREATED SPLASH PAD WATER IS INTENDED TO REMAIN WITHIN DESIGNATED SPLASH PAD DECK. UNDER NO CIRCUMSTANCES SHOULD SLOPE OF SPLASH PAD ALLOW WATER TO DRAIN OFF PAD
  10. UNDER NO CIRCUMSTANCES SHALL THE SURROUNDING HARDSCAPE AREA BE SLOPED TO ALLOW WATER TO BE DRAINED INTO THE SPLASH PAD DECK
  11. ALL CONCRETE SURFACES TO HAVE A NON-SLIP FINISH. SEE LANDSCAPE PLANS.
  12. SUB-CUT EXCAVATION UNDER SPLASH PAD 18" MIN FOR GRANULAR FILL
  13. COORDINATE EXPANSION JOINT AND SAW CUT LOCATIONS WITH PLAY EQUIPMENT LOCATIONS.

SEE PAGE 29 FOR  
SECTION DETAILS

IMPORTANT: SEE NOTE  
#8 CONCERNING  
SPLASH PAD SLOPE

CITY OF IMPERIAL BEACH, CALIFORNIA  
ENGINEERING DEPARTMENT  
SHEET 28 OF 40 SHEETS

FOR CITY ENGINEER DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL				

CONTRACTOR DATE STARTED  
INSPECTOR DATE COMPLETED

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REVIEWED BY:

PROJECT MANAGER/ENGINEER

DATE:

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SPEC NO. 2025-02

WBS NO. BC-0004-01

REFERENCES

PROJECT ENGINEER

CONTRACTOR

CONSTRUCTION STARTED

CONSTRUCTION COMPLETED

COST

INSPECTOR

REVISIONS

DATE / APPROVED



DESIGNED  
JM JJ CC

DRAWN  
CC

CHECKED  
JM JJ

APPROVAL  
RECOMMENDED

PROJECT MANAGER

APPROVED

DISTRICT MANAGER-DESIGN

SAN DIEGO UNIFIED PORT DISTRICT

DATE 4/14/2025

SPLASH PAD AT PORTWOOD PIER PLAZA

A/E NO. A-1.4

SHEET 28 OF 40

SPLASH PAD CONCRETE PLAN

DRAWING NO. IB-2025-01

REV. -

100% CONSTRUCTION DOCUMENTS

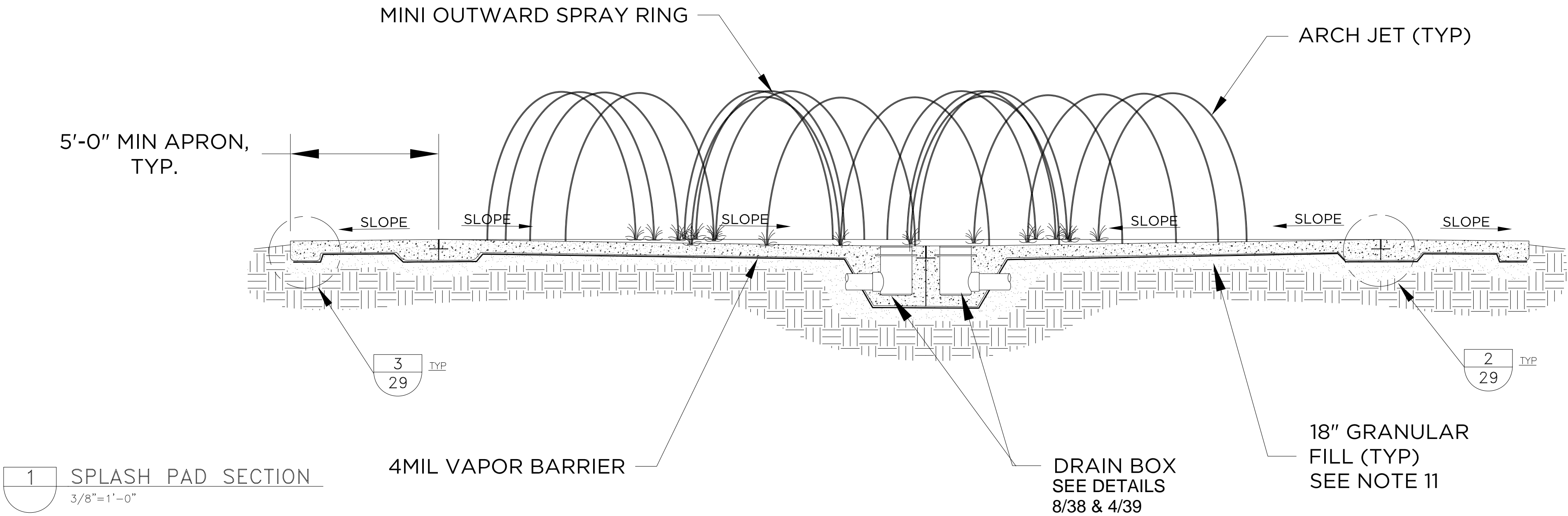


May 05, 2025 - 3:54pm K:\ARC\Projects\2025 Projects\1190563-01-01 or 1190144-01-04 1B Splash pad Design (Imperial Beach, CA) SO-01013455\Design\1190144-RE.dwg

- NOTE:
1. ALL SUB-BASE MATERIALS BY GENERAL CONTRACTOR. GENERAL CONTRACTOR IS TO BRING SITE TO LEVEL TO ROUGH GRADE WITH COMPACTED FILL. COMPACTION TEST BY GENERAL CONTRACTOR. SEE SOIL EXCAVATIONS AND FILL SPECIFICATIONS BELOW FOR EXCAVATION AND COMPACTION REQUIREMENTS.
  2. CONCRETE TO BE THICKENED AT DRAIN BOXES (SEE 8/38, AND 4/39) AND MINI UPWARD SPRAY RING (SEE 7/38, AND 3/40).
  3. ALL CONCRETE SLOPES TO BE 2% MAX.
  4. SITE ELEVATIONS OF SPLASH PAD AND CONCRETE APRON TO BE VERIFIED BY CONTRACTOR. SEE SHEET C-0.3 FOR CONCRETE ELEVATIONS AND SLOPES.
  5. THE INTENT OF A SPLASH PAD IS TO BE A DRY DECK WITH NO STANDING WATER, THE WATER IS TO BE CONTAINED WITHIN THE PERIMETER OF THE SPLASH PAD AND ALL WATER IS TO DRAIN INTO COLLECTOR BOX. THE CONCRETE IS TO BE FORMED AND SLOPED TO ACCOMMODATE THE DRAIN PATTERN.
  6. ALL TREATED SPLASH PAD WATER IS INTENDED TO REMAIN WITHIN DESIGNATED SPLASH PAD DECK. UNDER NO CIRCUMSTANCES SHOULD SLOPE OF SPLASH PAD OR SLOPE OF SURROUNDING AREA ALLOW WATER TO DRAIN OFF PAD.
  7. UNDER NO CIRCUMSTANCES SHALL THE SURROUNDING HARDSCAPE AREA BE SLOPED TO ALLOW WATER TO BE DRAINED INTO THE SPLASH PAD DECK
  8. ALL CONCRETE SURFACES TO HAVE A NON-SLIP FINISH. SEE LANDSCAPE PLAN
  9. COORDINATE EXACT LOCATION OF SAW CUTS AND EXPANSION JOINTS WITH PLAY EQUIPMENT LOCATIONS.
  10. CONCRETE REINFORCEMENT TO BE #4 REBAR @ 12" O.C. EACH WAY .
  11. 18" OF GRANULAR FILL REQUIRED. SEE FILL SPECIFICATIONS.
  12. THERE IS TO BE A MINIMUM OF 6" OF GRANULAR FILL AROUND ALL PIPING

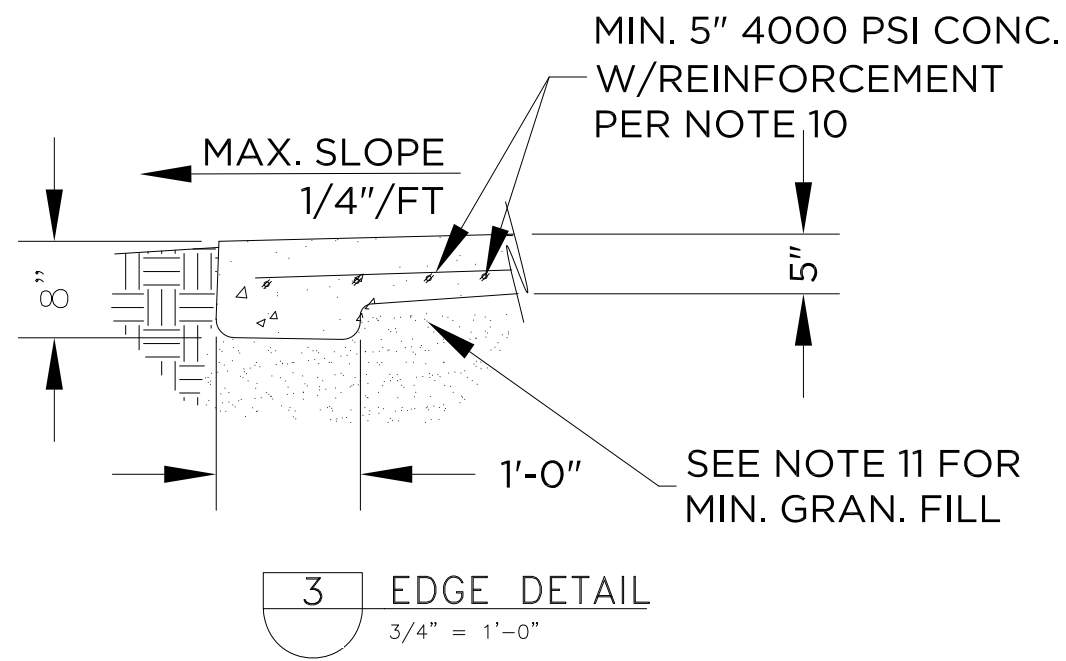
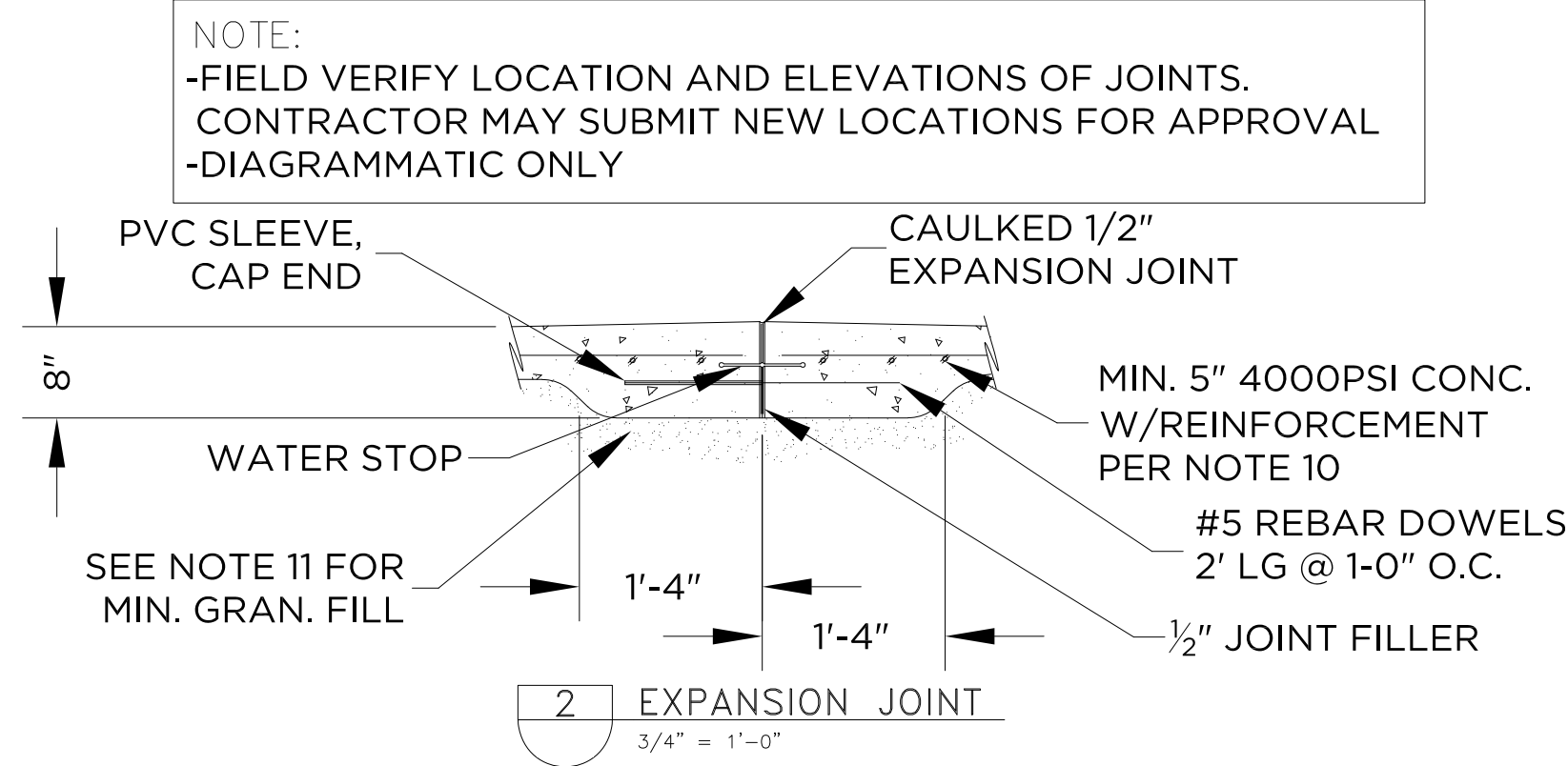
**SOIL EXCAVATIONS:**  
REMOVE ALL EXISTING FILL SOILS AND ANY SILTY SANDS (INCLUDING NATURALLY DEPOSITED SOILS) TO A DEPTH OF 18" MIN. SOILS EXPOSED IN THE EXCAVATION BOTTOM SHOULD CONSIST OF NATURAL COARSE ALLUVIAL SANDS (SP OR SP-SM). SOILS EXPOSED IN THE EXCAVATION BOTTOM SHOULD BE THOROUGHLY SURFACE COMPACTED.

**FILL SPECIFICATIONS:**  
FILL PLACED IN THE EXCAVATION SHOULD CONSIST OF NON-FROST SUSCEPTIBLE SANDS HAVING 5% OR LESS PARTICLES (BY WEIGHT) FINER THAN THE #200 SIEVE AND 40% OR LESS PARTICLES FINER THAN THE #40 SIEVE. FILL SHOULD BE COMPACTED TO A MINIMUM OF 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM: D698). REMOVE ALL BACKFILL THAT DOES NOT CONFORM TO MATERIAL SPECIFICATION (SP OR SP-SM CLASSIFICATION) OR MEET COMPACTION REQUIREMENTS. CONSULT SOILS REPORT OR TESTING LABORATORY AS NECESSARY.

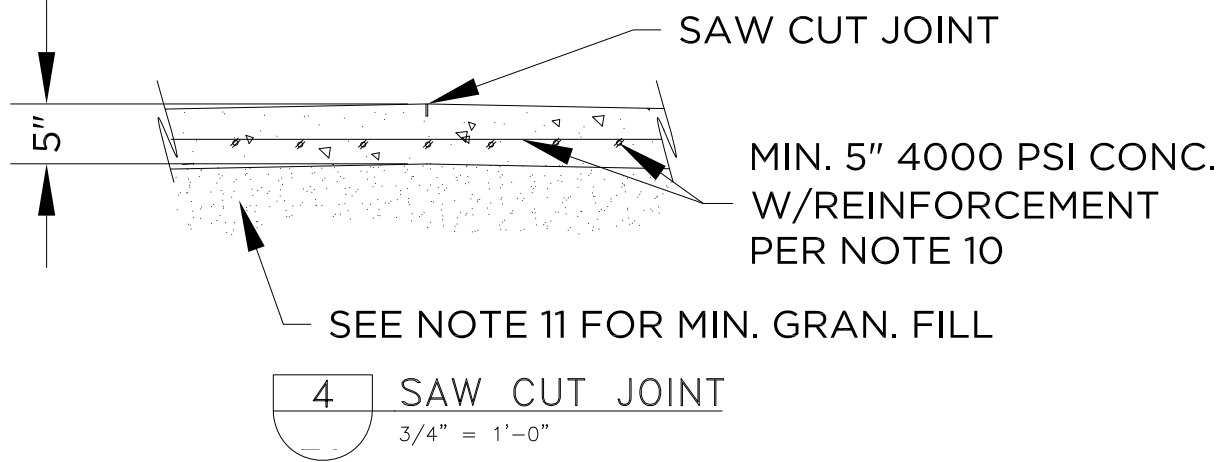


**1** SPLASH PAD SECTION  
3/8" = 1'-0"

SEE PAGE 28 FOR DETAILS



NOTE:  
-FIELD VERIFY LOCATION AND ELEVATIONS OF JOINTS.  
CONTRACTOR MAY SUBMIT NEW LOCATIONS FOR APPROVAL  
-DIAGRAMMATIC ONLY



CITY OF IMPERIAL BEACH, CALIFORNIA ENGINEERING DEPARTMENT SHEET 29 OF 40 SHEETS				
FOR CITY ENGINEER		DATE		
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL				
CONTRACTOR _____		DATE STARTED _____		
INSPECTOR _____		DATE COMPLETED _____		

REVIEWED BY:
PROJECT MANAGER/ENGINEER
DATE:

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SPEC NO. 2025-02	WBS NO. BC-0004-01
REFERENCES	
PROJECT ENGINEER	
CONTRACTOR	
CONSTRUCTION STARTED	
CONSTRUCTION COMPLETED	
COST	INSPECTOR

REVISIONS	DATE / APPROVED



DESIGNED JM JJ CC	APPROVAL RECOMMENDED
DRAWN CC	PROJECT MANAGER
CHECKED JM JJ	DISTRICT MANAGER-DESIGN

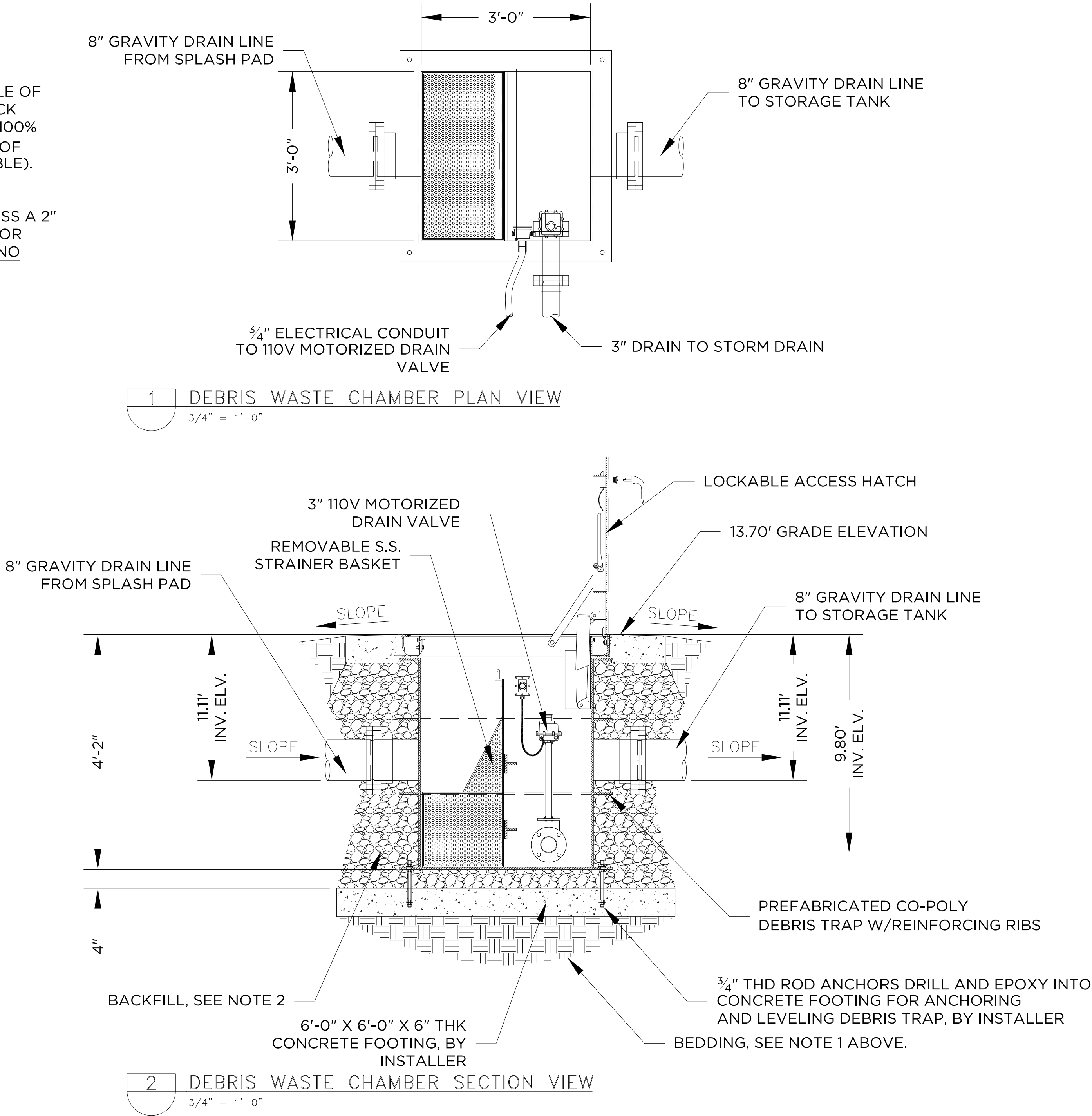
SAN DIEGO UNIFIED PORT DISTRICT		DATE 4/14/2025
SPLASH PAD AT PORTWOOD PIER PLAZA		A/E NO. A-1.5
SPLASH PAD CONCRETE SECTION AND DETAILS		SHEET 29 OF 40
		DRAWING NO. IB-2025-01
		REV. -



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NOTES:

1. BEDDING REQUIREMENTS:  
DEBRIS TRAP SHALL BE PLACED ON SOILS CAPABLE OF BEARING WEIGHT OF TRAP. SOFT SOIL OR BEDROCK SHALL HAVE A MINIMUM OF 3" TAMPED BEDDING, 100% OF WHICH SHALL PASS THRU A ½" SCREEN, MADE OF SAND OR GRAVEL (CLEAN PEA ROCK IS PREFERABLE).
2. BACKFILLING:  
WALLS REQUIRE BACKFILL WHICH 100% SHALL PASS A 2" SCREEN. MATERIAL MADE UP OF DRY SOIL, SAND, OR GRAVEL. MINIMUM OF 12" ON ALL SIDES OF TRAP. NO PARALLEL BACKFILLING OR COMPACTION ALONG SIDEWALLS IS PERMITTED. NO WHEEL OR TRACK LOADING ON WALLS.



CITY OF IMPERIAL BEACH, CALIFORNIA ENGINEERING DEPARTMENT SHEET 30 OF 40 SHEETS				
FOR CITY ENGINEER		DATE		
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL				
CONTRACTOR _____		DATE STARTED _____		
INSPECTOR _____		DATE COMPLETED _____		

SUB-CONSULTANT

CONSULTANT

**SCHMIDT  
DESIGN  
GROUP**

1310 Rosecrans St., Suite G, San Diego, CA 92106  
619.236.1462  
LIC. CA 2138 | NV 219 | AZ 34139  
[SCHMIDTDESIGN.COM](http://SCHMIDTDESIGN.COM)  
SDG PRJ# 24-408

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SPEC NO. 2025-02	WBS NO. BC-0004-01
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PROJECT ENGINEER	
CONTRACTOR	
CONSTRUCTION STARTED	
CONSTRUCTION COMPLETED	
COST	INSPECTOR

REVISIONS	DATE / APPROVED



DESIGNED JM JJ CC	APPROVAL RECOMMENDED
DRAWN CC	PROJECT MANAGER
CHECKED JM JJ	DISTRICT MANAGER-DESIGN

SAN DIEGO UNIFIED PORT DISTRICT				DATE 4/14/2025
SPLASH PAD AT PORTWOOD PIER PLAZA				A/E NO. A-1.6
SPLASH PAD DEBRIS WASTE CHAMBER DETAILS				SHEET 30 OF 40
				DRAWING NO. IB-2025-01
				REV. -






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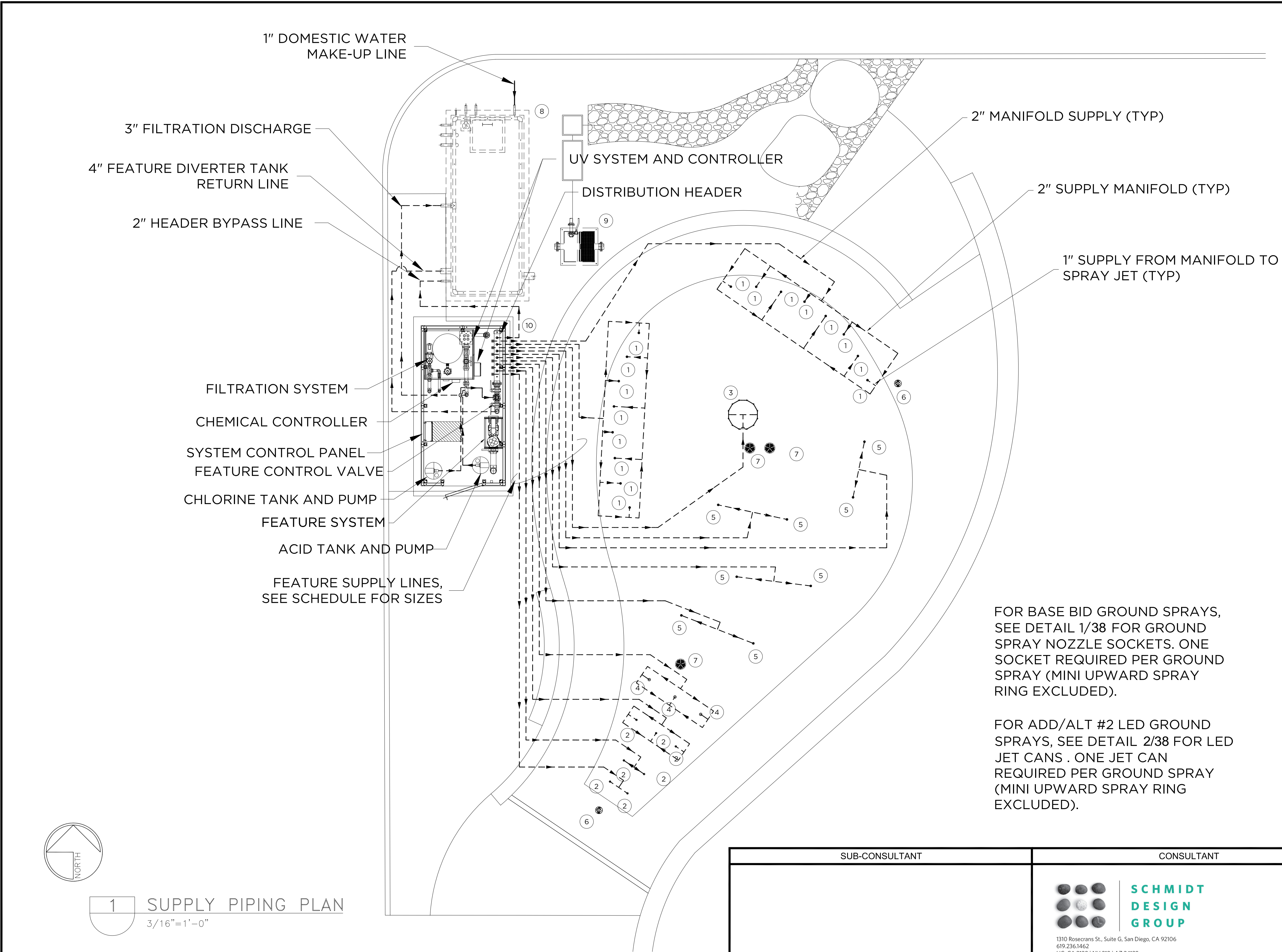
NO	PRODUCT (DETAIL)	QTY	GPM	LINE SIZE
1	ARCH JET (3/SHEET 38)	16	5 EA	1" EA
2	BUBBLER (4/SHEET 38)	7	1 EA	1" EA
3	MINI OUTWARD SPRAY RING (7/SHEET 38)	1	60 EA	2 1/2" EA
4	SEA CRAWLER (5/SHEET 38)	3	5 EA	1" EA
5	STREAM JET (6/SHEET 38)	8	10 EA	1" EA
6	STEP PAD ACTIVATOR (5/SHEET 39)	1	-	-
7	DRAIN BOX (8/SHEET 38)	3	120 EA	6" EA
8	STORAGE TANK (SHEET 37)	1	-	-
9	DEBRIS WASTE CHAMBER (SHEET 30) W/ DRAIN TO WASTE VALVE	1	-	-
10	MECHANICAL ENCLOSURE (1/SHEET 39)	1	-	-

\*AVAILABLE THRU AQUATIX (TAYLOR SMITH, 909-767-0201  
TSMITH@COASTRECREATION.NET) OR APPROVED EQUAL.\*

- NOTE:
- ALL SUPPLY AND DRAIN LINES TO SLOPE 1/8"/FT AWAY FROM SPLASH PAD.
  - GRAVITY DRAIN LINE VELOCITY NOT TO EXCEED 3.0 FT/SEC.
  - SURFACE MOUNTED STRUCTURES MAY REQUIRE A FLAT/LEVEL SURFACE FOR PROPER INSTALLATION. SEE INDIVIDUAL STRUCTURE MOUNTING INSTALLATION INSTRUCTIONS.
  - ALL PIPING RECOMMENDED TO BE SCH 80 PVC (SCH 40 ACCEPTABLE).
  - ALL LINES FROM PIPE MANIFOLDS TO FEATURES SHOULD NOT BE CROSSED.
  - SEE CIVIL AND LANDSCAPE PLANS FOR WATER METER AND BACKFLOW DEVICE REQUIRED FOR SPLASH PAD MECHANICAL SYSTEM
  - EXACT ROUTING OF PIPING TO BE DETERMINED BY INSTALLING CONTRACTOR.
  - INCOMING FRESH WATER SUPPLY TO BE PROVIDED WITH AN APPROVED REGULATOR SET TO 25-30PSI IN ACCORDANCE WITH LOCAL AND STATE CODES.

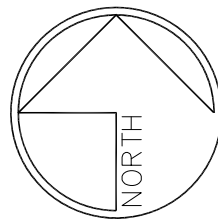
LEGEND	
-----	SUPPLY LINE
-----	DRAIN LINE
-----	SUCTION LINE
-----	ELECTRICAL CONDUIT
	MANUAL VALVE
	FLOW DIRECTION
	ACTUATED VALVE

CITY OF IMPERIAL BEACH, CALIFORNIA ENGINEERING DEPARTMENT SHEET 31 OF 40 SHEETS				
FOR CITY ENGINEER		DATE		
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL				
CONTRACTOR _____		DATE STARTED _____		
INSPECTOR _____		DATE COMPLETED _____		




FOR BASE BID GROUND SPRAYS,  
SEE DETAIL 1/38 FOR GROUND  
SPRAY NOZZLE SOCKETS. ONE  
SOCKET REQUIRED PER GROUND  
SPRAY (MINI UPWARD SPRAY  
RING EXCLUDED).

FOR ADD/ALT #2 LED GROUND  
SPRAYS, SEE DETAIL 2/38 FOR LED  
JET CANS . ONE JET CAN  
REQUIRED PER GROUND SPRAY  
(MINI UPWARD SPRAY RING  
EXCLUDED).



1 SUPPLY PIPING PLAN  
3/16"=1'-0"

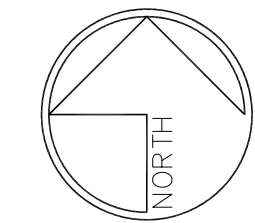
SUB-CONSULTANT	CONSULTANT
	 <b>SCHMIDT DESIGN GROUP</b> <small>1310 Rosecrans St., Suite G, San Diego, CA 92106 619.236.1462 LIC. CA 2138   NV 219   AZ 34139 SCHMIDTDESIGN.COM SDG PRJ# 24-408</small>

RECORD DRAWING		<p>NOTE:</p> <p>THIS DRAWING MAY BE A REDUCED SCALE PRINT OF THE ORIGINAL DRAWING. UTILIZE GRAPHIC SCALES TO VERIFY IF DRAWING IS A REDUCTION, AND ADJUST SCALES ACCORDINGLY TO THE GRAPHIC SCALES SHOWN.</p>	SPEC NO. 2025-02		WBS NO. BC-0004-01																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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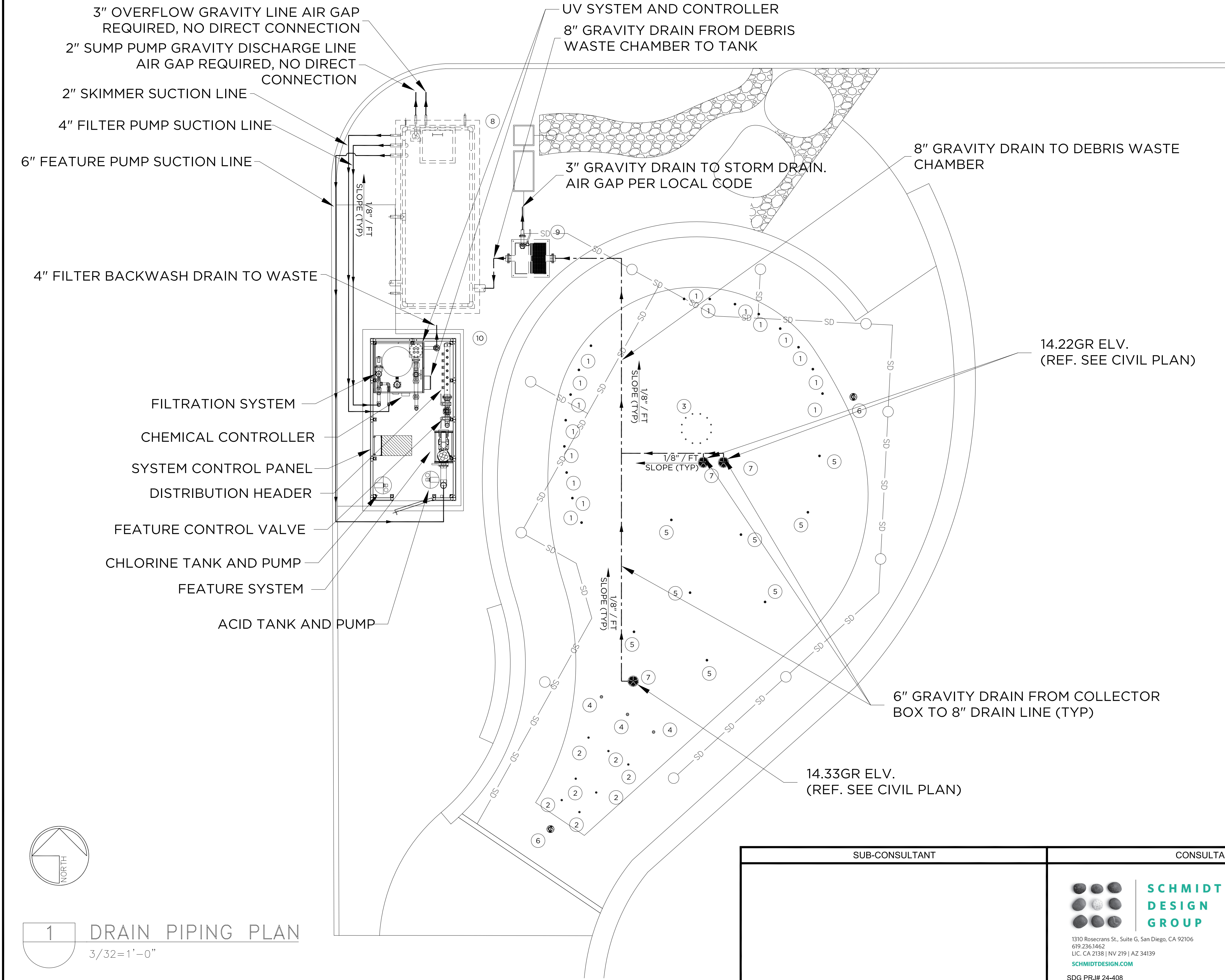




May 05, 2025 - 3:55pm K:\ARC\Projects\2025 Projects\1190563-01-01 or 1190144-01-04 1B Splash pad Design (Imperial Beach, CA) SO-01013455\Design\1190144-RE.dwg



1 DRAIN PIPING PLAN  
3/32=1'-0"



NO	PRODUCT (DETAIL)	QTY	GPM	LINE SIZE
1	ARCH JET (3/SHEET 38)	16	5 EA	1" EA
2	BUBBLER (4/SHEET 38)	7	1 EA	1" EA
3	MINI OUTWARD SPRAY RING (7/SHEET 38)	1	60 EA	2 1/2" EA
4	SEA CRAWLER (5/SHEET 38)	3	5 EA	1" EA
5	STREAM JET (6/SHEET 38)	8	10 EA	1" EA
6	STEP PAD ACTIVATOR (5/SHEET 39)	1	-	-
7	DRAIN BOX (8/SHEET 38)	3	120 EA	6" EA
8	STORAGE TANK (SHEET 37)	1	-	-
9	DEBRIS WASTE CHAMBER (SHEET 30) W/ DRAIN TO WASTE VALVE	1	-	-
10	MECHANICAL ENCLOSURE (1/SHEET 39)	1	-	-

\*AVAILABLE THRU AQUATIX (TAYLOR SMITH, 909-767-0201  
TSMITH@COASTRECREATION.NET) OR APPROVED EQUAL.\*

NOTE:

- ALL SUPPLY AND DRAIN LINES TO SLOPE 1/8"/FT AWAY FROM SPLASH PAD.
- GRAVITY DRAIN LINE VELOCITY NOT TO EXCEED 3.0 FT/SEC.
- SURFACE MOUNTED STRUCTURES MAY REQUIRE A FLAT/LEVEL SURFACE FOR PROPER INSTALLATION. SEE INDIVIDUAL STRUCTURE MOUNTING INSTALLATION INSTRUCTIONS.
- ALL PIPING RECOMMENDED TO BE SCH 80 PVC (SCH 40 ACCEPTABLE).
- ALL LINES FROM PIPE MANIFOLDS TO FEATURES SHOULD NOT BE CROSSED.
- SEE CIVIL AND LANDSCAPE PLANS FOR WATER METER AND BACKFLOW DEVICE REQUIRED FOR SPLASH PAD MECHANICAL SYSTEM
- EXACT ROUTING OF PIPING TO BE DETERMINED BY INSTALLING CONTRACTOR.
- INCOMING FRESH WATER SUPPLY TO BE PROVIDED WITH AN APPROVED REGULATOR SET TO 25-30PSI IN ACCORDANCE WITH LOCAL AND STATE CODES.

LEGEND

- SUPPLY LINE
- - - - - DRAIN LINE
- SUCTION LINE
- ELECTRICAL CONDUIT
- ⋈ MANUAL VALVE
- ▲ FLOW DIRECTION
- ⋈ ACTUATED VALVE

CITY OF IMPERIAL BEACH, CALIFORNIA  
ENGINEERING DEPARTMENT  
SHEET 32 OF 40 SHEETS

FOR CITY ENGINEER DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL				

CONTRACTOR DATE STARTED  
INSPECTOR DATE COMPLETED

RECORD DRAWING

REVIEWED BY:

PROJECT MANAGER/ENGINEER

DATE:

NOTE:  
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UTILIZE GRAPHIC SCALES TO  
VERIFY IF DRAWING IS A  
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SCALES ACCORDINGLY TO THE  
GRAPHIC SCALES SHOWN.

SPEC NO. 2025-02

WBS NO. BC-0004-01

REFERENCES

PROJECT ENGINEER

CONTRACTOR

CONSTRUCTION STARTED

CONSTRUCTION COMPLETED

COST

INSPECTOR

REVISIONS

DATE / APPROVED



DESIGNED

JM JJ CC

DRAWN

CC

CHECKED

JM JJ

APPROVAL

RECOMMENDED

PROJECT MANAGER

APPROVED

DISTRICT MANAGER-DESIGN

SAN DIEGO UNIFIED PORT DISTRICT

DATE 4/14/2025

SPLASH PAD AT PORTWOOD PIER PLAZA

SPLASH PAD DRAIN PIPING PLAN

A/E NO. A-1.8

SHEET 32 OF 40

DRAWING NO. IB-2025-01

REV. -







- NOTE:
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CITY OF IMPERIAL BEACH, CALIFORNIA  
ENGINEERING DEPARTMENT  
SHEET 34 OF 40 SHEETS

FOR CITY ENGINEER			DATE	
DESCRIPTION	BY	APPROVED	DATE	FILME
ORIGINAL				

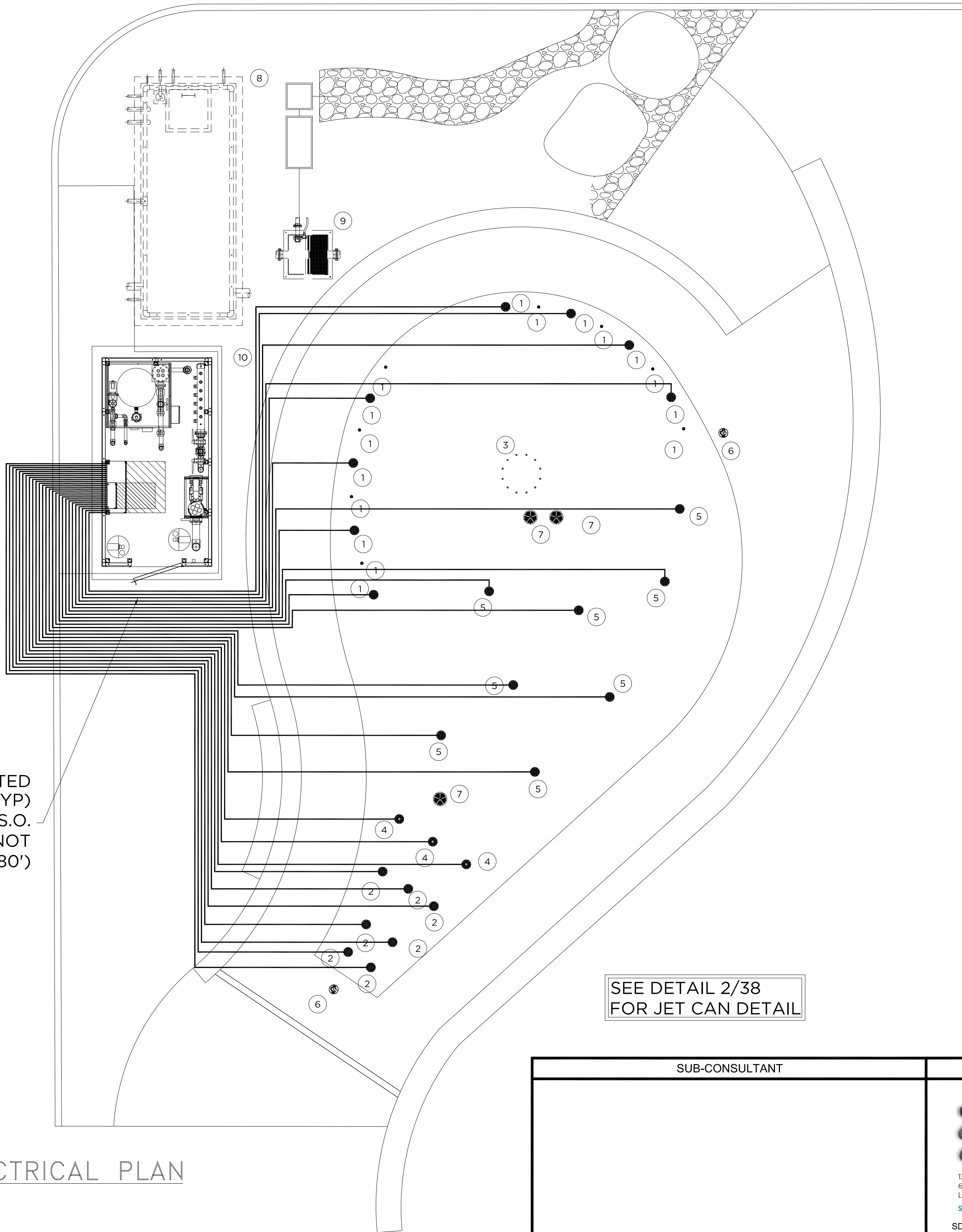
CONTRACTOR _____	DATE STARTED _____
INSPECTOR _____	DATE COMPLETED _____



**PORT of  
SAN DIEGO**  
Waterfront of Opportunity

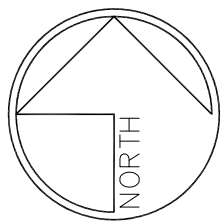


May 05, 2025 - 3:58pm K:\ARC\Projects\2025 Projects\1190563-01-01 or 1190144-01-04 1B Splash pad Design (Imperial Beach, CA) SO-01013455\Design\1190144-RE.dwg



3/4" ELECTRICAL CONDUIT FROM LED LIGHTED JET CAN TO CONTROL PANEL (TYP)  
(NOTE: LED LIGHTS INCLUDED WITH 100' S.O. CORD. MAXIMUM CONDUIT LENGTH CANNOT EXCEED 80')

SEE DETAIL 2/38  
FOR JET CAN DETAIL



1 LED ADD/ALT #2.ELECTRICAL PLAN  
3/16"=1'-0"

NO	PRODUCT (DETAIL)	QTY	GPM	LINE SIZE
1	ARCH JET (3/SHEET 38)	16	5 EA	1" EA
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8	STORAGE TANK (SHEET 37)	1	-	-
9	DEBRIS WASTE CHAMBER (SHEET 30) W/ DRAIN TO WASTE VALVE	1	-	-
10	MECHANICAL ENCLOSURE (1/SHEET 39)	1	-	-

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TSMITH@COASTRECREATION.NET) OR APPROVED EQUAL.\*

- NOTE:
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  - EXACT ROUTING OF PIPING TO BE DETERMINED BY INSTALLING CONTRACTOR.
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LEGEND	
-----	SUPPLY LINE
- - - - -	DRAIN LINE
— — — —	SUCTION LINE
-----	ELECTRICAL CONDUIT
✕	MANUAL VALVE
▲	FLOW DIRECTION
✕	ACTUATED VALVE

CITY OF IMPERIAL BEACH, CALIFORNIA  
ENGINEERING DEPARTMENT  
SHEET 35 OF 40 SHEETS

FOR CITY ENGINEER DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL				

CONTRACTOR DATE STARTED  
INSPECTOR DATE COMPLETED

RECORD DRAWING

REVIEWED BY:

PROJECT MANAGER/ENGINEER

DATE:

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SPEC NO. 2025-02  
REFERENCES  
PROJECT ENGINEER  
CONTRACTOR  
CONSTRUCTION STARTED  
CONSTRUCTION COMPLETED  
COST INSPECTOR

WBS NO. BC-0004-01

REVISIONS

DATE / APPROVED



DESIGNED  
JM JJ CC  
DRAWN  
CC  
CHECKED  
JM JJ

APPROVAL  
RECOMMENDED  
PROJECT MANAGER  
APPROVED  
DISTRICT MANAGER-DESIGN

SAN DIEGO UNIFIED PORT DISTRICT

DATE 4/14/2025

SPLASH PAD AT PORTWOOD PIER PLAZA

SPLASH PAD ELECTRICAL PLAN (LED ADD/ALT)

A/E NO. A-1.11

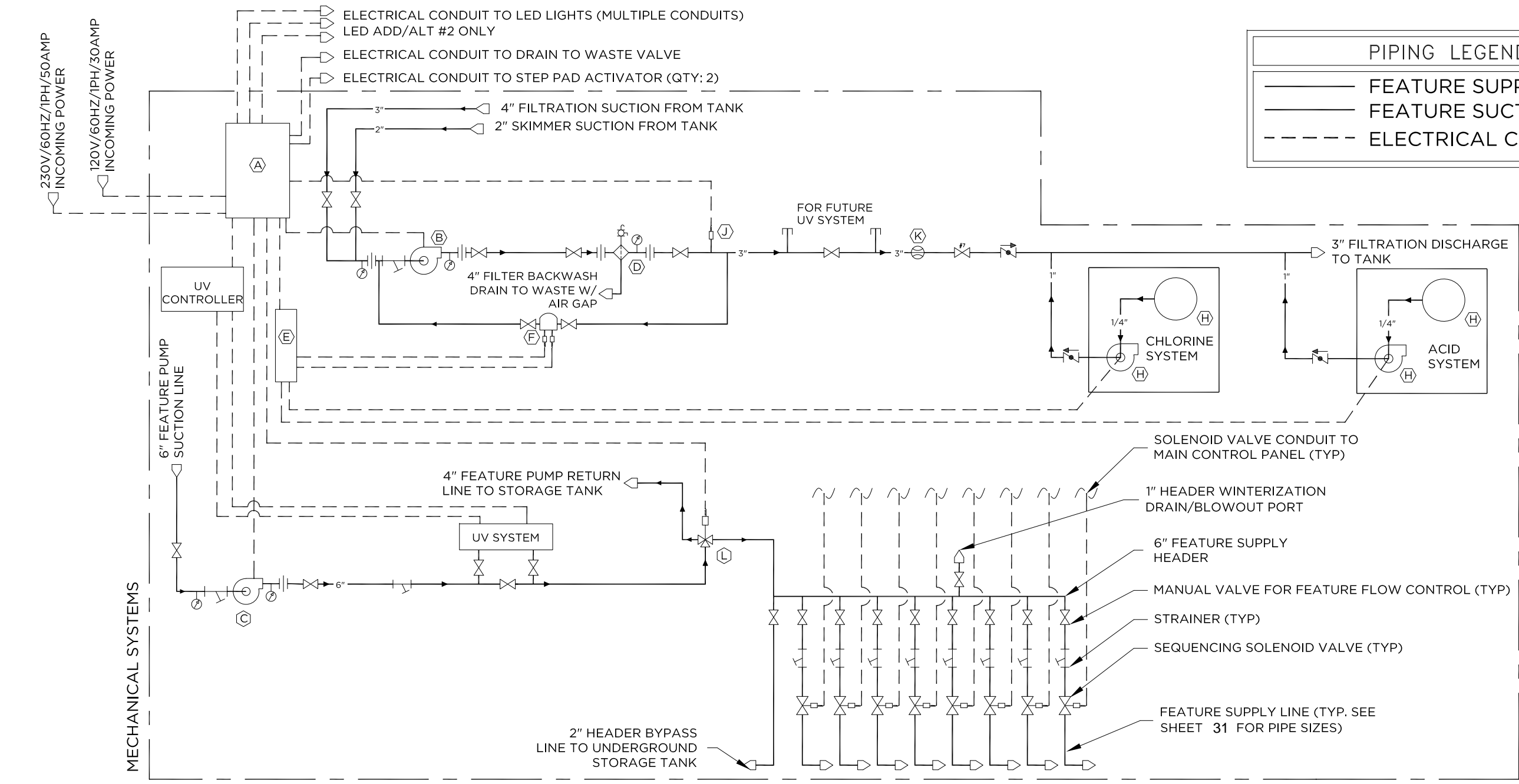
SHEET 35 OF 40

DRAWING NO. IB-2025-01

REV. -



May 05, 2025 - 3:58pm K:\ARC\Projects\2025 Projects\1190563-01-01 or 1190144-01-04 1B Splash pad Design (Imperial Beach, CA) SO-01013455\Design\1190144-RE.dwg



PIPING LEGEND	
	FEATURE SUPPLY PIPE
	FEATURE SUCTION PIPE
	ELECTRICAL CONDUIT

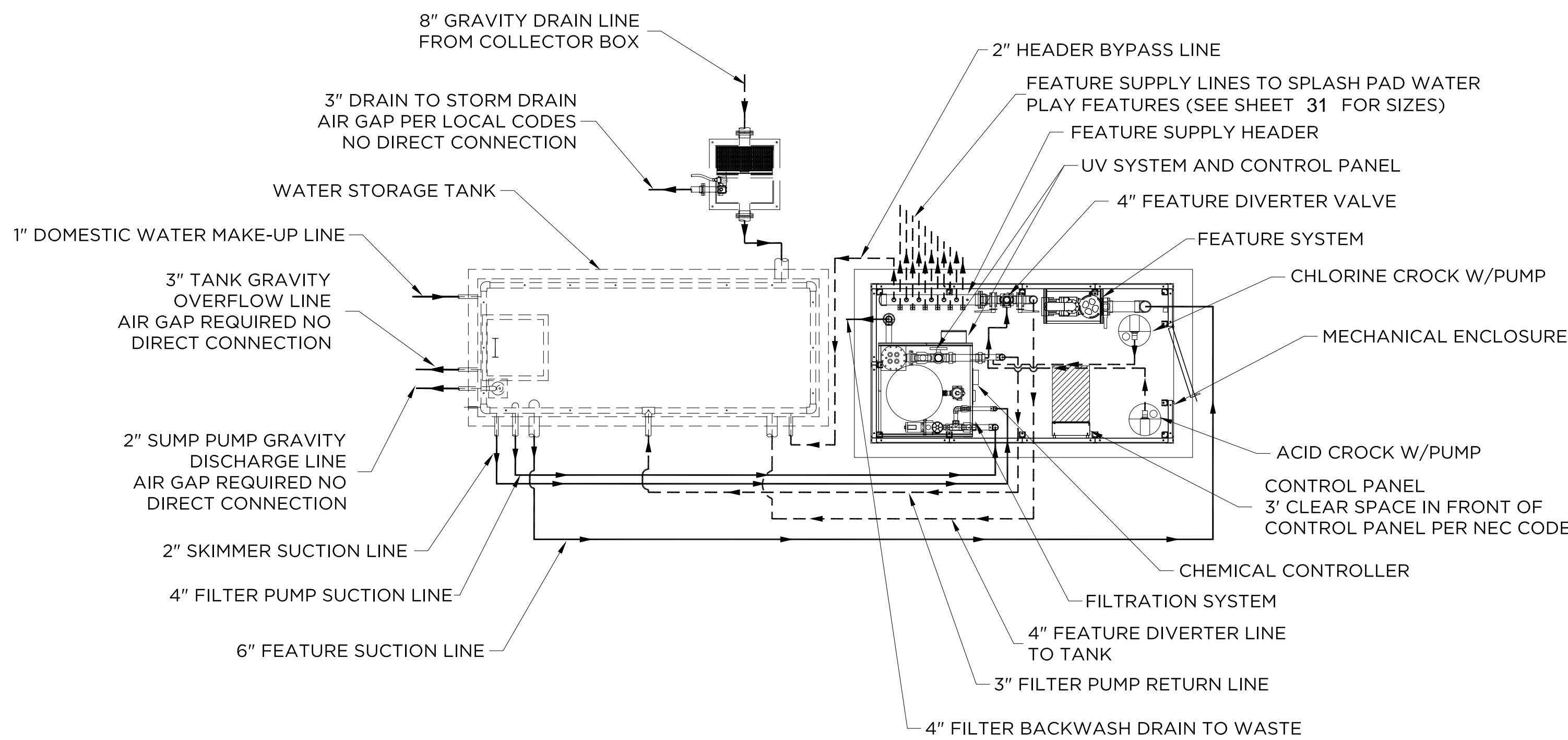
SYMBOL LEGEND	
	PUMP
	GATE VALVE
	SOLENOID VALVE
	CHEM FEEDER
	INLET
	OUTLET
	MANUAL AIR VENT
	PSI/VACUUM GAUGE
	STRAINER
	UNION
	CHECK VALVE
	INLET / OUTLET

FEATURE EQUIPMENT		
ITEM#	DESCRIPTION:	TOTAL QTY:
A	MAIN CONTROL PANEL	1
B	5 HP 230/60/1PH FILTRATION PUMP W/ STRAINER	1
C	5 HP 230/60/3PH FEATURE PUMP W/ STRAINER	1
D	SAND FILTER W/ MULTIPORT VALVE	1
E	PH/ORP CONTROLLER	1
F	PH/ORP PROBES	1
G	CHLORINE PUMP/STORAGE CROCK	1
H	Ph PUMP/STORAGE CROCK	1
J	FLOW SWITCH	1
K	FLOW METER	1
L	3 WAY FEATURE SUPPLY VALVE	1

- GENERAL NOTES:
1. ALL GRAVITY DRAIN LINES TO SLOPE 1/8"/FT AWAY FROM SPLASH PAD.
  2. GRAVITY DRAIN LINE VELOCITY NOT TO EXCEED 3.0 FT/SEC.
  3. REFER TO SPEC SHEET AND INSTALLATION DRAWING FOR EACH PRODUCT.
  4. LOCATION AND SIZE OF UNDERGROUND STORAGE TANK NOT TO SCALE.
  5. ALL PIPING BETWEEN COLLECTOR BOXES, UNDERGROUND STORAGE TANK, AND OPERATING SYSTEM RECOMMENDED TO BE SCH 80 PVC. (SCH 40 IS ACCEPTABLE).
  6. ALL LINES FROM PIPE MANIFOLDS TO FEATURES SHOULD NOT BE CROSSED.
  7. SEE CIVIL AND LANDSCAPE PLANS FOR WATER METER AND BACKFLOW DEVICE REQUIRED FOR SPLASH PAD MECHANICAL SYSTEM
  8. EXACT ROUTING OF PIPING TO BE DETERMINED BY CONTRACTOR.
  9. UNDERGROUND STORAGE TANK AND ALL EQUIPMENT MUST BE SECURE TO PREVENT UNAUTHORIZED ACCESS.
  10. INDICATES FLOW DIRECTION.

- EQUIPMENT ROOM:
- (1) WHISPERFLO XF VS PUMP, 5HP, 1Ø, 230V, 21.0 amps, 134 GPM MIN @ 60 Ft/Hd
  - (1) HIGH RATE STAND FILTER W/MULTI-PORT VALVE, 7.06 SQ. FT.@141GPM
  - (1) SYSTEM ELECTRICAL PANEL
  - (1) CHEMICAL CONTROLLER HAYWARD CAT-2000 oRP/pH, 230V, 10amps
  - (1) CHLORINE SYSTEM (CROCK AND PERSTALIC PUMP)
  - (1) PH ADJUSTING SYSTEM (CROCK AND PERSTALIC PUMP)
  - (1) EQ SERIES EQ-500, 5HP, 1Ø, 230V, 20.0 amps, 305 GPM @ 50 Ft/Hd
  - (1) UV SYSTEM HAYWARD #HYR400L4, 352 GPM MAX, 120V/3AMP
  - (1) 4" FABRICATED SCH. 80 PVC DISTRIBUTION MANIFOLD
- (EQUIPMENT AS SPECIFIED OR APPROVED EQUAL)

1 MECHANICAL SCHEMATIC  
NTS



2 MECHANICAL LAYOUT  
3/16" = 1'-0"

SUB-CONSULTANT	CONSULTANT
	 <b>SCHMIDT DESIGN GROUP</b> 1310 Rosecrans St., Suite G, San Diego, CA 92106 619.236.1462 LIC. CA 2138   NV 219   AZ 34139 <a href="http://SCHMIDTDESIGN.COM">SCHMIDTDESIGN.COM</a> SDG PRJ# 24-408

CITY OF IMPERIAL BEACH, CALIFORNIA ENGINEERING DEPARTMENT SHEET 36 OF 40 SHEETS				
FOR CITY ENGINEER		DATE		
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL				
CONTRACTOR		DATE STARTED		
INSPECTOR		DATE COMPLETED		

RECORD DRAWING  
REVIEWED BY:  
PROJECT MANAGER/ENGINEER  
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PROJECT ENGINEER	
CONTRACTOR	
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CONSTRUCTION COMPLETED	
COST	INSPECTOR

REVISIONS	DATE / APPROVED

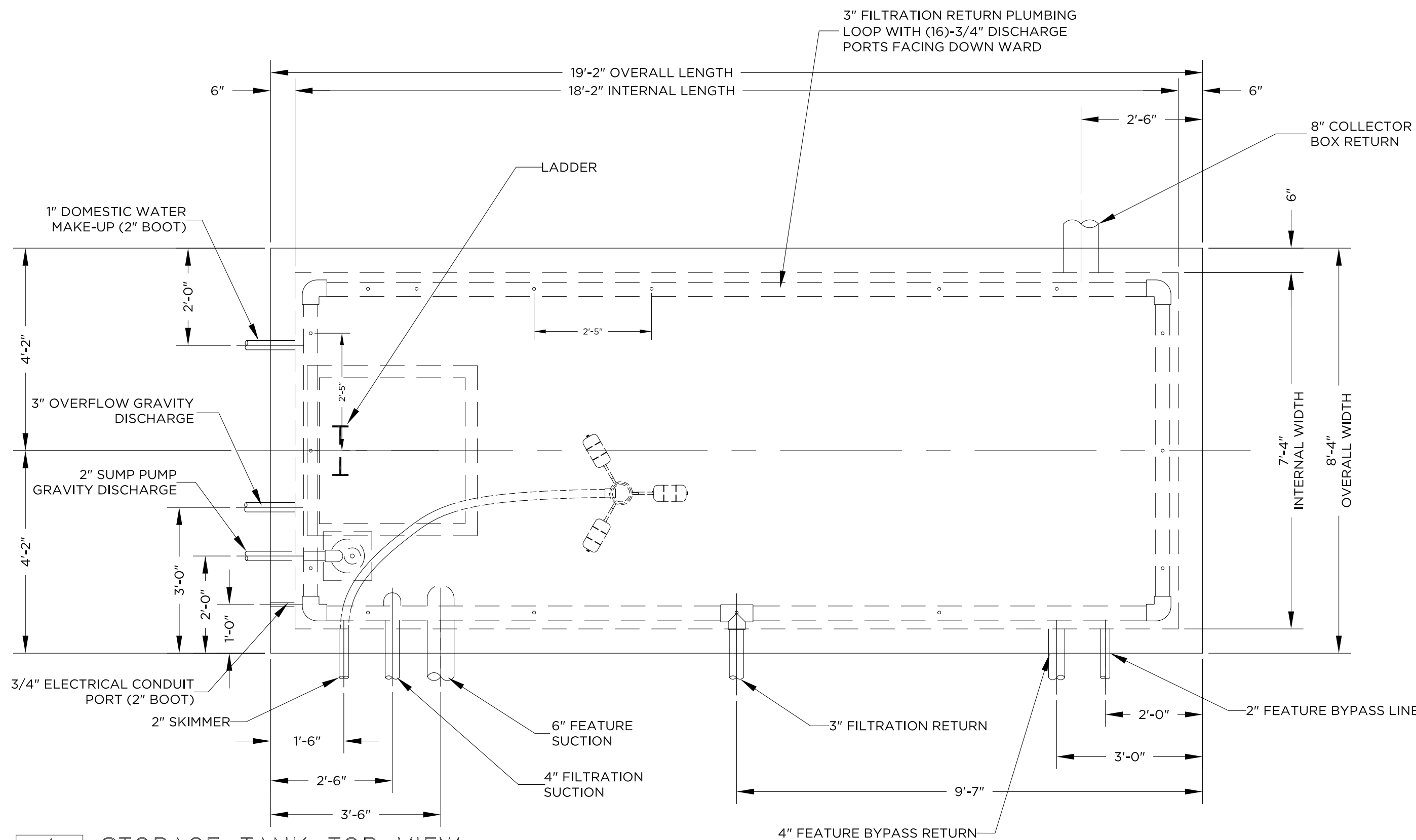


DESIGNED JM JJ CC	APPROVAL RECOMMENDED
DRAWN CC	PROJECT MANAGER
CHECKED JM JJ	DISTRICT MANAGER-DESIGN

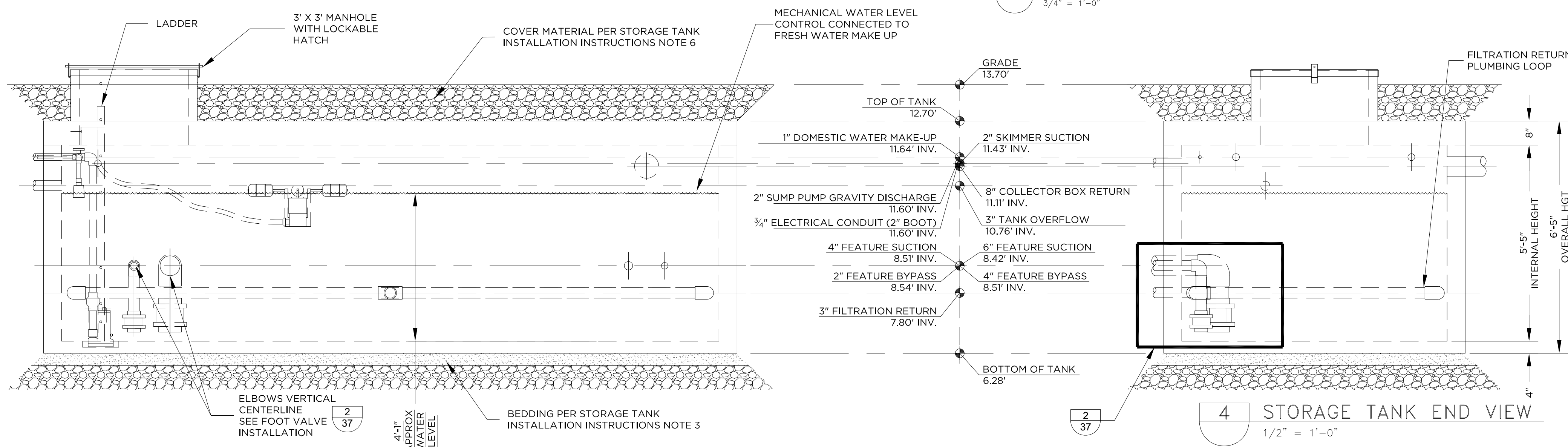
SAN DIEGO UNIFIED PORT DISTRICT		DATE 4/14/2025
SPLASH PAD AT PORTWOOD PIER PLAZA		A/E NO. A-1.12
SPLASH PAD MECHANICAL PLAN		SHEET 36 OF 40
		DRAWING NO. IB-2025-01
		REV. -



May 05, 2025 - 3:59pm K:\ARC\Projects\2025 Projects\1190563-01-01 or 1190144-01-04 1B Splash pad Design (Imperial Beach, CA) SO-01013455\Design\1190144-RE.dwg

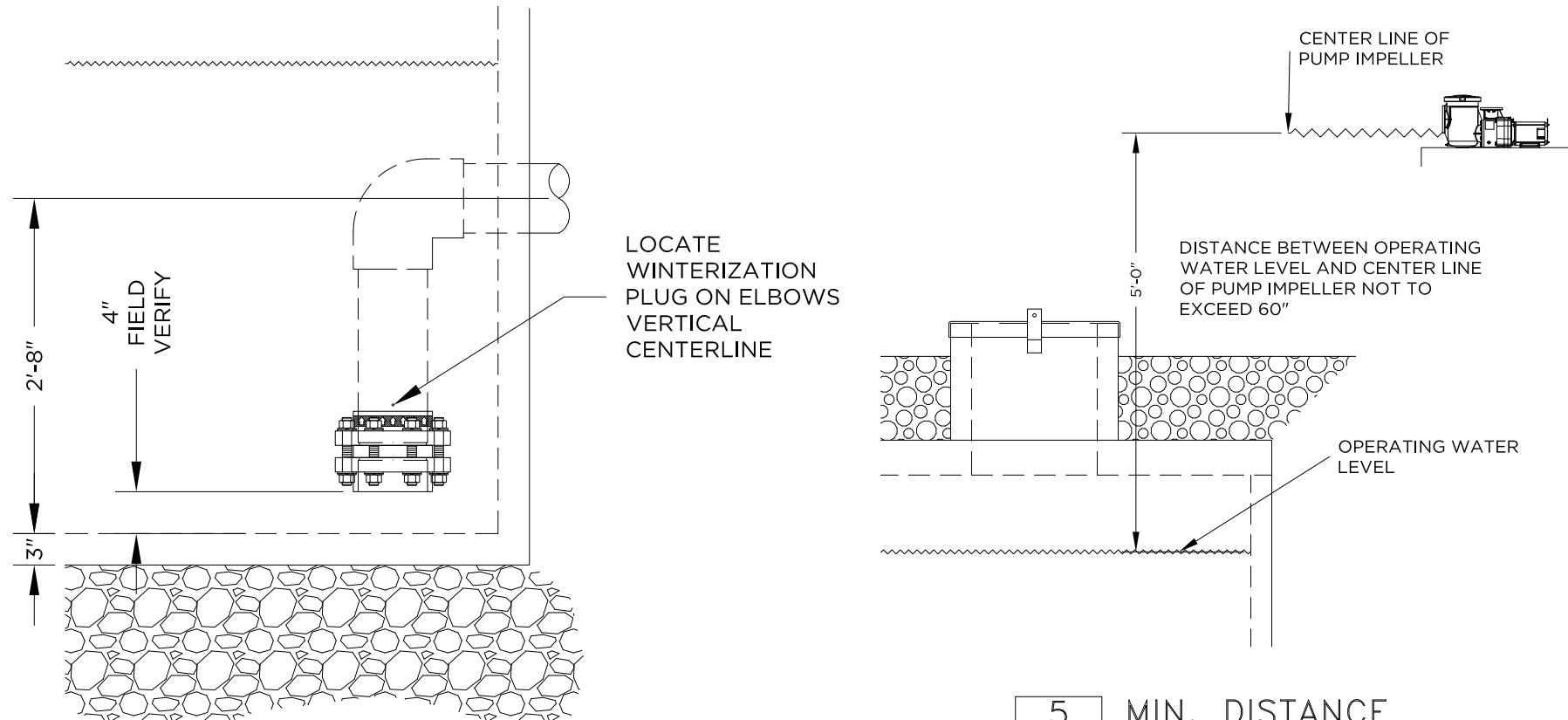


1 STORAGE TANK TOP VIEW  
1/2" = 1'-0"



3 STORAGE TANK SIDE VIEW  
1/2" = 1'-0"

NOTE: DEWATERING REQUIRED DURING TANK INSTALLATION AND BACKFILLING.



2 FOOT VALVE ASSEMBLY  
3/4" = 1'-0"

5 MIN. DISTANCE  
1/2" = 1'-0"

- NOTE:
1. ALL ELEVATIONS MUST BE FIELD VERIFIED.
  2. TANK TO BE A 4,000 GALLON TANK.
  3. WORKING VOLUME OF TANK TO BE APPROXIMATELY 4,000 GALLONS (SEE APPROXIMATE WATER LEVEL DIMENSION IN SIDE VIEW)
  4. INTERIOR OF TANK TO BE PAINTED WHITE OR NATURAL CONCRETE FINISH.
  5. COORDINATE ALL PIPE CONNECTION ELEV.S TO PROVIDE PROPER SLOPE OF PIPING.
  6. COLLECTOR BOX RETURN FITTING ELEVATION TO BE DETERMINED BY OTHERS TO ACHIEVE APPROPRIATE SLOPE OF 1/8" /FT.

ATTENTION INSTALLER:  
\*\*SEE SHEET 25 FOR INSTALLATION INSTRUCTIONS.\*\*

CRITICAL NOTE:  
TANK NOZZLE LOCATIONS CAN BE MODIFIED DEPENDING ON ACTUAL SITE CONDITIONS. DO NOT "SHORT CIRCUIT" FILTRATION SUPPLY AND RETURN.

TANK PENETRATION ELEVATIONS BASED ON TANK LOCATION SHOWN ON SITE PLAN AND SHEET 26

STORAGE TANK INSTALL INSTRUCTIONS:

1. SITE CONDITIONS: THE SITE MUST BE ACCESSIBLE TO LARGE, HEAVY TRUCKS. FREE OF ITEMS LIKE TREES, OVERHEAD WIRES, AND BUILDINGS. THAT COULD INTERFERE WITH DELIVERY OR INSTALLATION AND ALLOWS TRUCKS TO WITHIN 3 TO 8 FEET OF PLACEMENT EXCAVATION.
2. EXCAVATION: EXCAVATION SHOULD BE APPROXIMATELY 18" MINIMUM LARGER THAN TANK SIZE TO ALLOW FOR ADEQUATE BACK FILL. THIS MAY VARY WITH SOIL CONDITIONS. EXCAVATION BELOW THE TANK CENTER TO BE 2" LOWER TO PREVENT UNDUE PRESSURE AT CENTER OF TANK.
3. BEDDING: PROPER USE OF BEDDING MATERIAL IS IMPORTANT TO ENSURE SERVICE LIFE OF TANK STRUCTURE. BEDDING MUST BE CAPABLE OF BEARING THE WEIGHT OF THE TANK AND CONTENTS. BEDDING MATERIAL SHALL HAVE THE ABILITY OF 100% TO BE ABLE TO PASS THROUGH A 1/2" SCREEN MADE UP OF SAND OR GRAVEL (CLEAN PEA STONE PREFERRED). BEDDING THICKNESS SHALL BE A 4" MINIMUM COMPACTED (THICKNESS MAY VARY WITH EXISTING SOIL CONDITIONS). THE CENTER BEDDING UNDER THE TANK SHOULD BE 1" LOWER THEN THE PERIMETER BEDDING.
4. WATER TABLE: TANKS BEING PLACED WHERE WATER LEVELS CAN POTENTIALLY BE HIGHER THAN THE ELEVATION OF THE TANK COVER, MUST BE BROUGHT TO THE ATTENTION OF DESIGNER ADDITIONAL INSTALLATION INSTRUCTIONS SUCH AS BALLAST AND COATING MAY BE REQUIRED.
5. BACKFILL: SIDEWALLS REQUIRE BACKFILL WHICH 100% SHALL PASS A 2" SCREEN MATERIAL MADE UP OF DRY SOIL, SAND, OR GRAVEL. MINIMUM 12" ALL SIDES OF THE TANK-FROM BASE TO TOP. NO PARALLEL BACKFILLING OR COMPACTION ALONG THE LENGTH OF SIDEWALLS IS PERMITTED. NO WHEEL OR TACK LOADING SIDEWALLS. MATERIAL ON TOP OF TANK TO PASS 4" SCREEN & DRY.
6. COVER MATERIAL: COVER MATERIAL SHALL BE DRY SOIL, SAND, OR GRAVEL MATERIAL THAT HAS THE ABILITY OF 100% TO BE ABLE TO PASS THROUGH A 4" SCREEN. COVER MATERIALS SHALL BE MOUNDED OVER TANK AND AROUND RISERS TO DIRECT RUN-OFF AWAY FROM STORAGE TANK.
7. WATER EVACUATE: FILTRATION PUMP MAY BE USED TO EVACUATE WATER FROM STORAGE TANK TO APPROVED WASTE CONNECTION IN EVENT OF WATER CONTAMINATION. TANK SHALL BE THOROUGHLY CLEANED AND SANITIZED PRIOR TO RE-FILLING. CONFIRM INSPECTION WITH YOUR LOCAL HEALTH DEPARTMENT RE-FILLING STORAGE TANK & RE-STARTING THE SYSTEM.
8. TANK STANDARD: TANK TO BE MANUFACTURED TO ASTM C-913 AND C-1227 STANDARDS. ALL SEAMS AND PIPE PENETRATIONS TO BE WATER TIGHT.

RECORD DRAWING

REVIEWED BY: \_\_\_\_\_  
PROJECT MANAGER/ENGINEER  
DATE: \_\_\_\_\_

NOTE:  
THIS DRAWING MAY BE A REDUCED SCALE PRINT OF THE ORIGINAL DRAWING. UTILIZE GRAPHIC SCALES TO VERIFY IF DRAWING IS A REDUCTION, AND ADJUST SCALES ACCORDINGLY TO THE GRAPHIC SCALES SHOWN.

SPEC NO.	2025-02	WBS NO.	BC-0004-01
REFERENCES			
PROJECT ENGINEER			
CONTRACTOR			
CONSTRUCTION STARTED			
CONSTRUCTION COMPLETED			
COST			
INSPECTOR			

REVISIONS  
DATE / APPROVED



DESIGNED	JM JJ CC
DRAWN	CC
CHECKED	JM JJ

APPROVAL	RECOMMENDED
PROJECT MANAGER	
APPROVED	
DISTRICT MANAGER-DESIGN	

SAN DIEGO UNIFIED PORT DISTRICT		DATE	4/14/2025
SPLASH PAD AT PORTWOOD PIER PLAZA		A/E NO.	A-1.13
SPLASH PAD STORAGE TANK DETAILS		SHEET	37 OF 40
		DRAWING NO.	IB-2025-01
		REV.	-

CITY OF IMPERIAL BEACH, CALIFORNIA  
ENGINEERING DEPARTMENT  
SHEET 37 OF 40 SHEETS

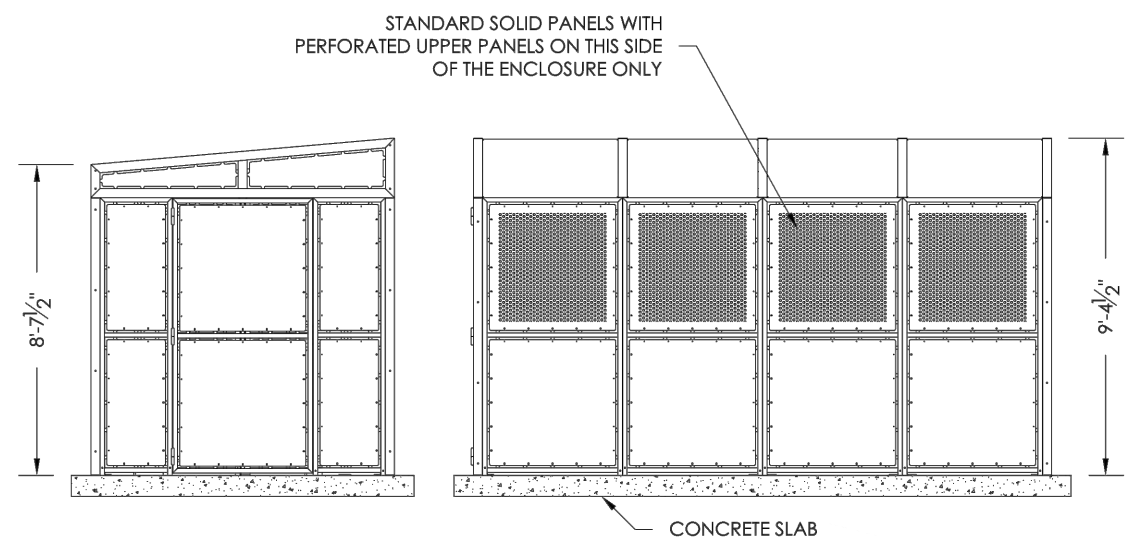
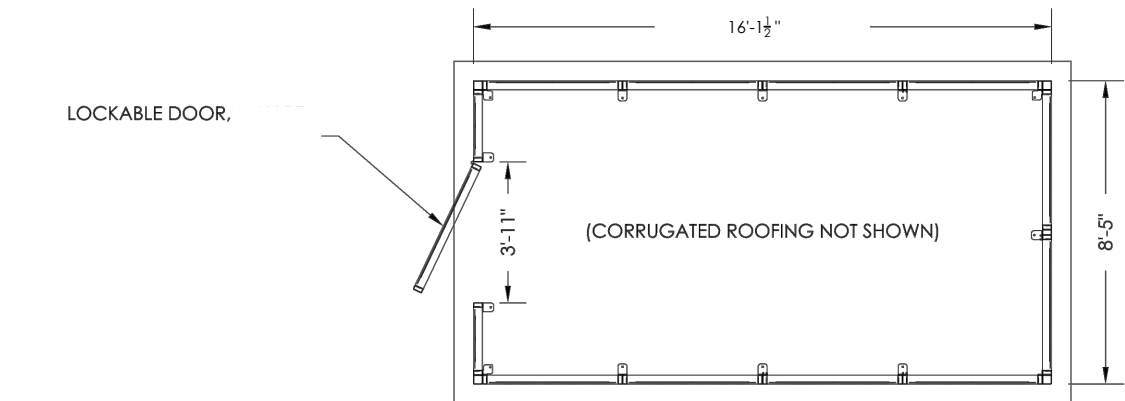
FOR CITY ENGINEER		DATE		
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL				
CONTRACTOR		DATE STARTED		
INSPECTOR		DATE COMPLETED		







May 06, 2025 - 3:22pm - S:\\_Projects\400-Parks, Municipal\24-408 Splash Pad at Portwood Pier\01-Incoming\Consultants\Coast Rec\2025 05 05 100% CD Revised and CAD\1190144-RE - Standard\1190144-RE - SDG.dwg

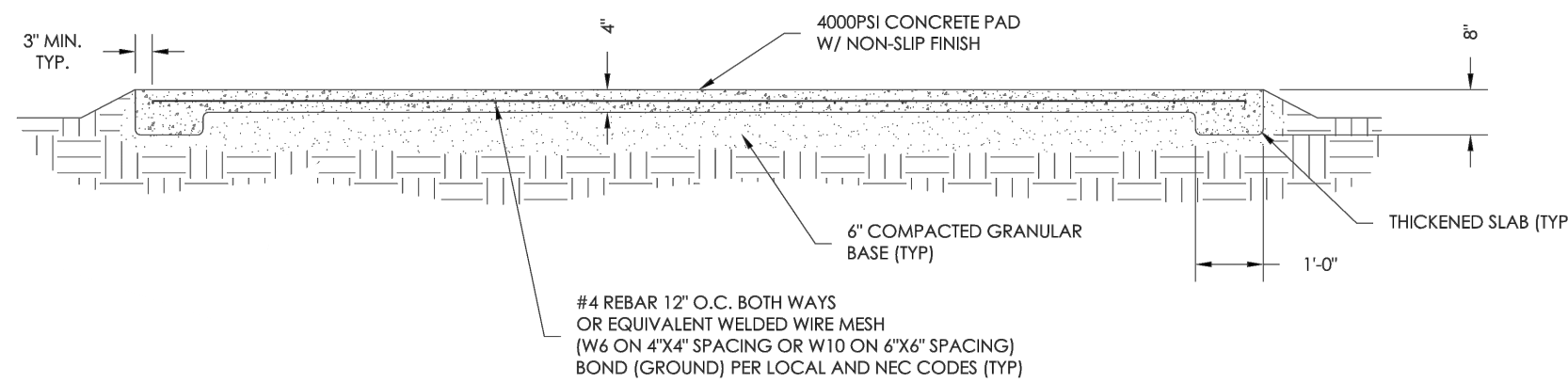
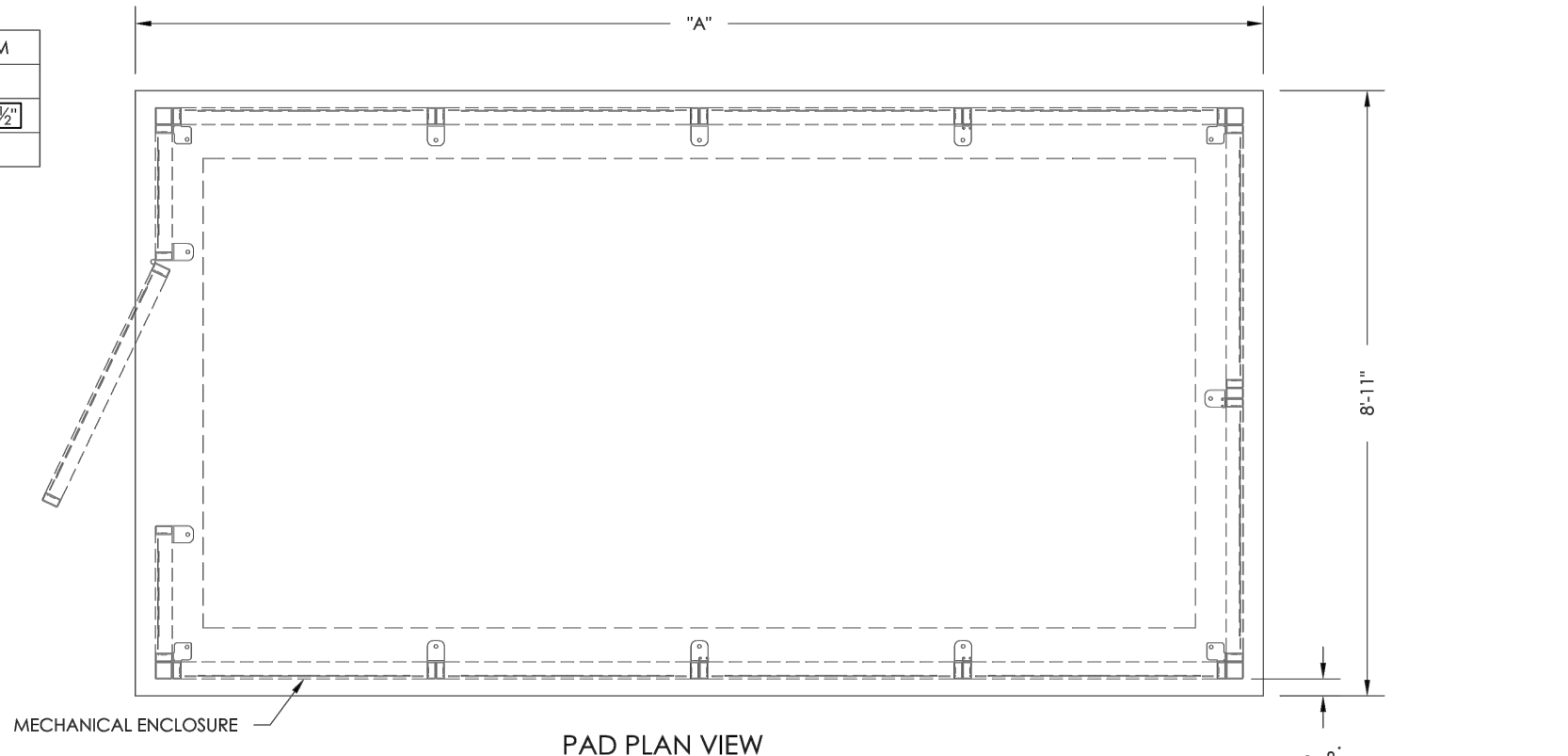


**MECHANICAL ENCLOSURE NOTES:**

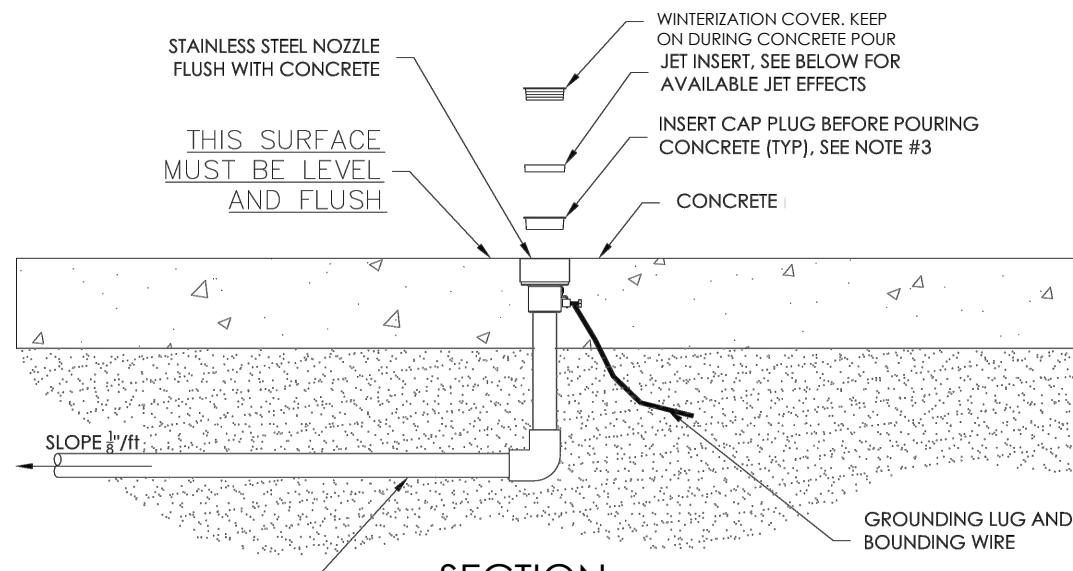
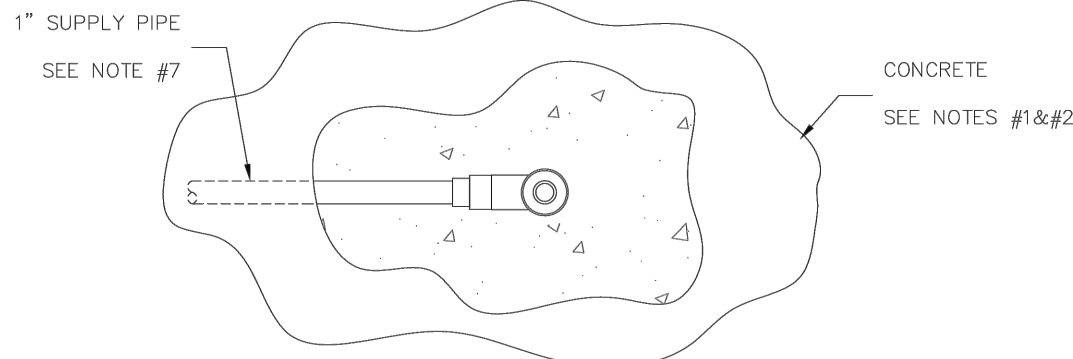
- STEEL STRUCTURE WITH POWDERCOAT FINISH
- ZINC PLATED HARDWARE
- CORRUGATED STEEL ROOF (NOT SHOWN)
- ACCESS DOOR CAN BE LOCATED ON EITHER END OF ENCLOSURE
- STANDARD SOLID LOWER PANELS WITH PERFORATED UPPER PANELS ON ONE SIDE OF ENCLOSURE AS SHOWN
- WIND: 180 MPH PER ASCE 7-16 EXPOSURE C, RISK CATEGORY II
- SEISMIC: ASCE 7-16 DESIGN CATEGORY D, SITE CLASS D

**1 EQUIPMENT ENCLOSURE**  
NTS

ENCLOSURE LENGTH	A'DIM
16'-1 1/2"	16'-7 1/2"



**2 EQUIPMENT ENCLOSURE CONCRETE PAD**  
NTS



**3 GROUND SPRAY NOZZEL INSTALLATOIN**  
NTS

**IMPORTANT: VISUALLY INSPECT THE EQUIPMENT ON A DAILY BASIS FOR:**

1. SIGNS OF VANDALISM/WEAR/DAMAGE/LOOSE OR MISSING COMPONENTS THAT WOULD MAKE THE EQUIPMENT UNSAFE.
2. LOOSE OR MISSING FASTENERS (NUTS, BOLTS, CLAMPS, CABLES, SCREWS, ETC).
3. EQUIPMENT DAMAGE (IMPROPERLY SECURED, WORN, MISSING, OR DAMAGED STRUCTURES, SUPPORT ARMS, BRACKETS, PROTECTIVE COVERS, BASE SKIRTS, HANDLES, NOZZLES ETC).
4. EQUIPMENT MAJFUNCTION (LOOSE, MISSING, WORN, DAMAGED EQUIPMENT COMPONENTS).
5. IF COMPONENT REPLACEMENT IS REQUIRED, REPLACE WITH NEW COMPONENT OF SAME TYPE/DESIGN. DO NOT REUSE COMPONENT.
6. IT IS NOT RECOMMENDED TO RE-USE FLANGE MOUNTING GASKETS.
7. PROPERLY BALANCED AND SANITIZED WATER SUPPLY.

**NOTES:**

1. REPLACE PLASTIC PLUGS WITH NOZZLE INSERTS AFTER CONCRETE HAS CURED.
2. RINSE AND BRUSH NOZZLE SOCKET AND NOZZLE THREADS BEFORE INSTALLING NOZZLE.
3. USE ANTI-SEIZE THREAD LUBRICANT ON NOZZLE THREADS.
4. DO NOT FORCE NOZZLES TO THREAD IN, CLEAN AND LUBRICATE THREADS IF NOZZLE DOES NOT GO IN SMOOTHLY.
5. VERIFY LOCAL CODES FOR CONCRETE TYPE, THICKNESS, AND REINFORCEMENT REQUIREMENTS.
6. CONCRETE TO BE RATED FOR 4000 PSI MINIMUM.
7. A VALVE MUST BE INSTALLED ON THE SUPPLY LINE FLOW.
8. TO PREVENT DAMAGE OR PERSONAL INJURY, REMOVE NOZZLES DURING STARTUP AND WINTERIZATION PROCEDURES.
9. BOND IN ACCORDANCE WITH NEC ARTICLE 680.

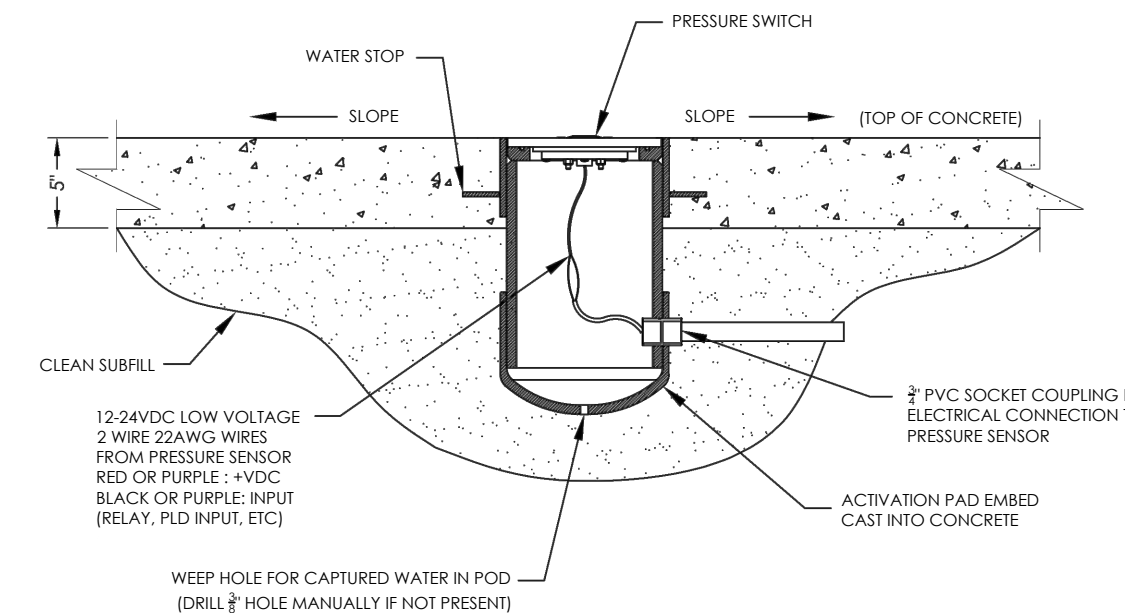
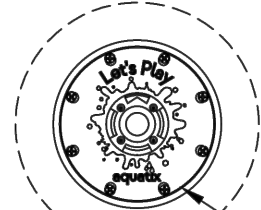
SPRAY EFFECT MAY VARY BASED ON VARIOUS ENVIRONMENTAL CONDITIONS, FLOW RATES, SLOPE OF SPLASH PAD, SUBMERGENCE DEPTH, AND WIND.

**PVC Step Pad Activator:**

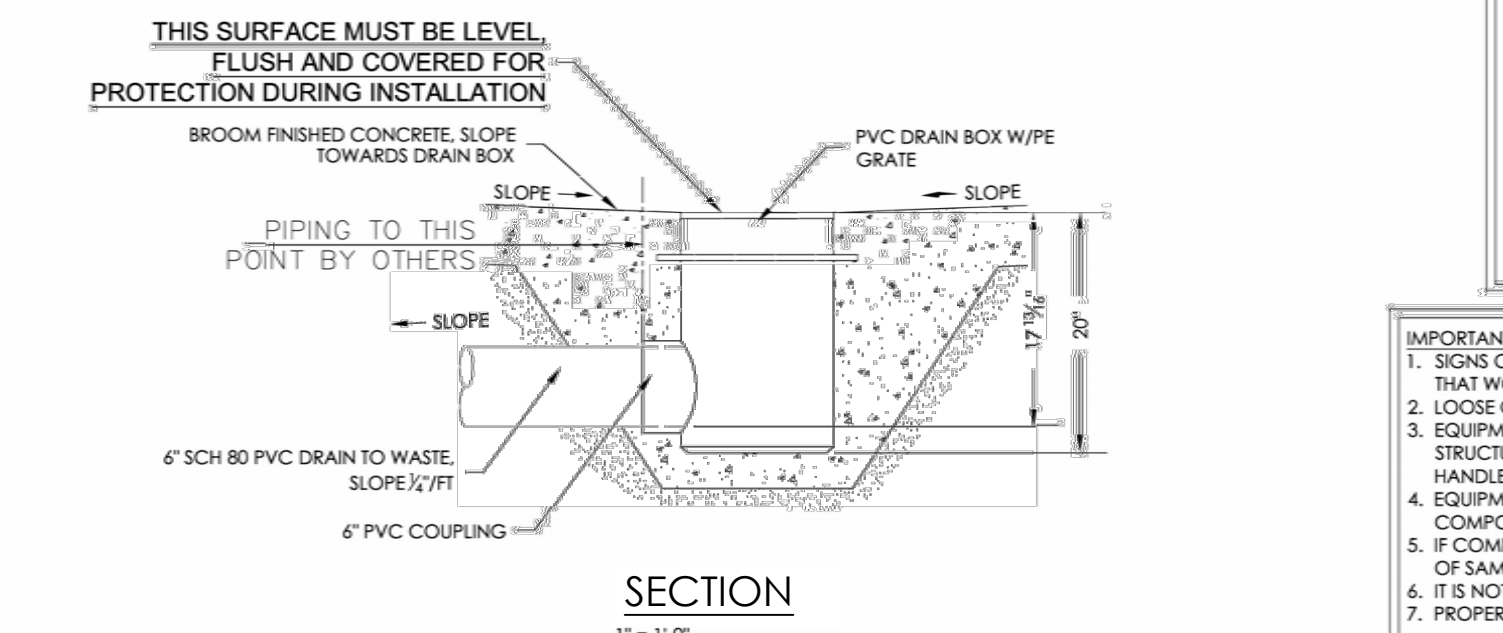
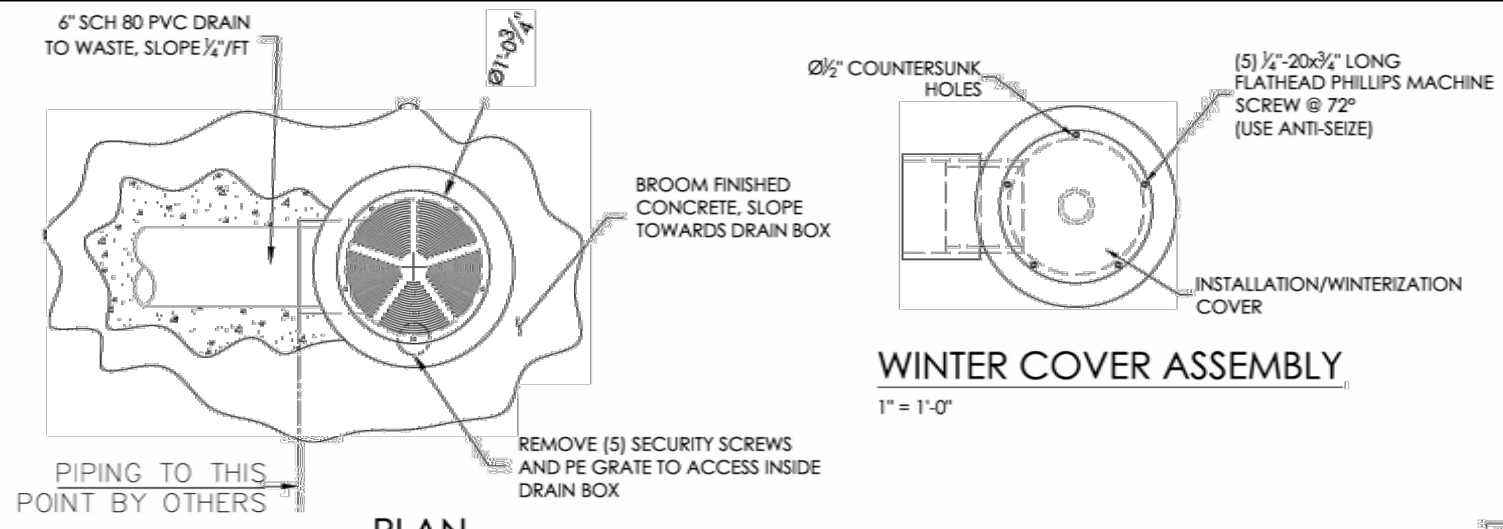
DESIRED DURATION OF TIME:  
(FOR WATER ACTIVITIES ONCE SENSOR IS ACTIVATED)

ADJUSTABLE

RECOMMENDED DISTANCE FROM STEP PAD ACTIVATOR(S) TO CONTROL PANEL 90' MAX.



**5 STEP PAD ACTIVATOR**  
NTS



**4 DRAIN BOX INSTALLATION**  
NTS

**NOTE:**

REMOVE AND DISCARD 1/2"-20 FPHMS AFTER CONCRETE FINISHING. REPLACE WITH PROVIDED SECURITY FASTENERS. APPLY ANTI-SEIZE TO THREADS PRIOR TO INSTALLATION.

**NOTES:**

1. THICKEN CONCRETE SLAB UNDER STRUCTURE.
2. VERIFY LOCAL CODES FOR TYPE, THICKNESS, & REINFORCEMENT REQUIREMENTS FOR CONCRETE SLAB. CONCRETE TO BE RATED FOR 4000 PSI MINIMUM.
3. AFTER MARKING HOLE LOCATIONS, REMOVE STRUCTURE WHEN DRILLING & INSTALLING ANCHORING STUDS.
4. REFER TO MANUFACTURER'S INSTRUCTIONS FOR EPOXY INSTALLATION AND CURING TIMES.
5. USE ANTI-SEIZE LUBRICANT ON ALL S.S. THREADED FASTENERS.
6. USE LOC-TITE ONLY WHERE/WHEN SPECIFIED.
7. TORQUE SPECS FOR 5/8"-11UNC MOUNTING NUTS: 65 FT.LB.
8. WINTERIZATION TO BE PERFORMED BY A TRAINED TECHNICIAN FAMILIAR WITH PROPER WINTERIZATION PROCEDURES.
9. TO PREVENT DAMAGE OR PERSONAL INJURY, REMOVAL OF THE NOZZLE ASSEMBLIES OF ALL ABOVE GROUND STRUCTURES AND GROUND SPRAY EFFECTS IS REQUIRED DURING STARTUP AND WINTERIZATION PROCEDURES.

**IMPORTANT: VISUALLY INSPECT THE EQUIPMENT ON A DAILY BASIS FOR:**

1. SIGNS OF VANDALISM/WEAR/DAMAGE/LOOSE OR MISSING COMPONENTS THAT WOULD MAKE THE EQUIPMENT UNSAFE.
2. LOOSE OR MISSING FASTENERS (NUTS, BOLTS, CLAMPS, CABLES, SCREWS, ETC).
3. EQUIPMENT DAMAGE (IMPROPERLY SECURED, WORN, MISSING, OR DAMAGED STRUCTURES, SUPPORT ARMS, BRACKETS, PROTECTIVE COVERS, BASE SKIRTS, HANDLES, NOZZLES ETC).
4. EQUIPMENT MAJFUNCTION (LOOSE, MISSING, WORN, DAMAGED EQUIPMENT COMPONENTS).
5. IF COMPONENT REPLACEMENT IS REQUIRED, REPLACE WITH NEW COMPONENT OF SAME TYPE/DESIGN. DO NOT REUSE COMPONENT.
6. IT IS NOT RECOMMENDED TO RE-USE FLANGE MOUNTING GASKETS.
7. PROPERLY BALANCED AND SANITIZED WATER SUPPLY.

**RECORD DRAWING**

REVIEWED BY: \_\_\_\_\_

PROJECT MANAGER/ENGINEER

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

**NOTE:**

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SPEC. NO. **2025-02** WBS NO. **BC-0004-01**

REFERENCES

PROJECT ENGINEER

CONTRACTOR

CONSTRUCTION STARTED

CONSTRUCTION COMPLETED

COST

INSPECTOR

REVISIONS	DATE / APPROVED



DESIGNED  
JM JJ CC

DRAWN  
CC

CHECKED  
JM JJ

APPROVAL  
RECOMMENDED

PROJECT MANAGER

APPROVED

DISTRICT MANAGER-DESIGN

**SAN DIEGO UNIFIED PORT DISTRICT**

**SPLASH PAD AT PORTWOOD PIER PLAZA**

**SPLASH PAD PRODUCT INFO AND INSTAL DETAILS**

DATE **4/14/2025**

A/E NO. **A-1.15**

SHEET **39** OF **40**

DRAWING NO. **IB-2025-01** REV. **-**

**CITY OF IMPERIAL BEACH, CALIFORNIA**

**ENGINEERING DEPARTMENT**

**SHEET 39 OF 40 SHEETS**

FOR CITY ENGINEER		DATE		
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL				
CONTRACTOR		DATE STARTED		
INSPECTOR		DATE COMPLETED		

**SCHMIDT DESIGN GROUP**

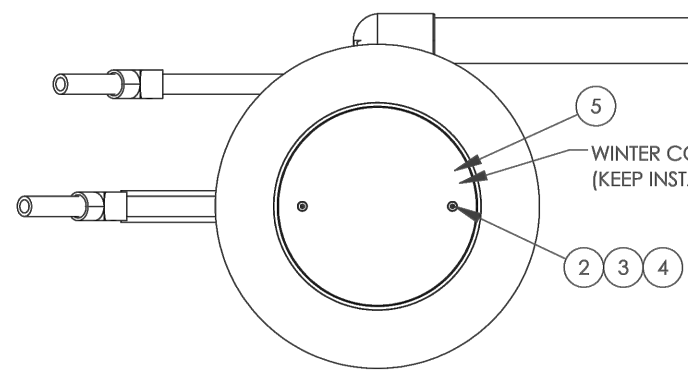
1310 Rosecrans St., Suite G, San Diego, CA 92106  
619.236.1462  
LIC. CA 2138 | NV 219 | AZ 34139  
SCHMIDTDESIGN.COM  
SDG PRJ# 24-408

100% CONSTRUCTION DOCUMENTS

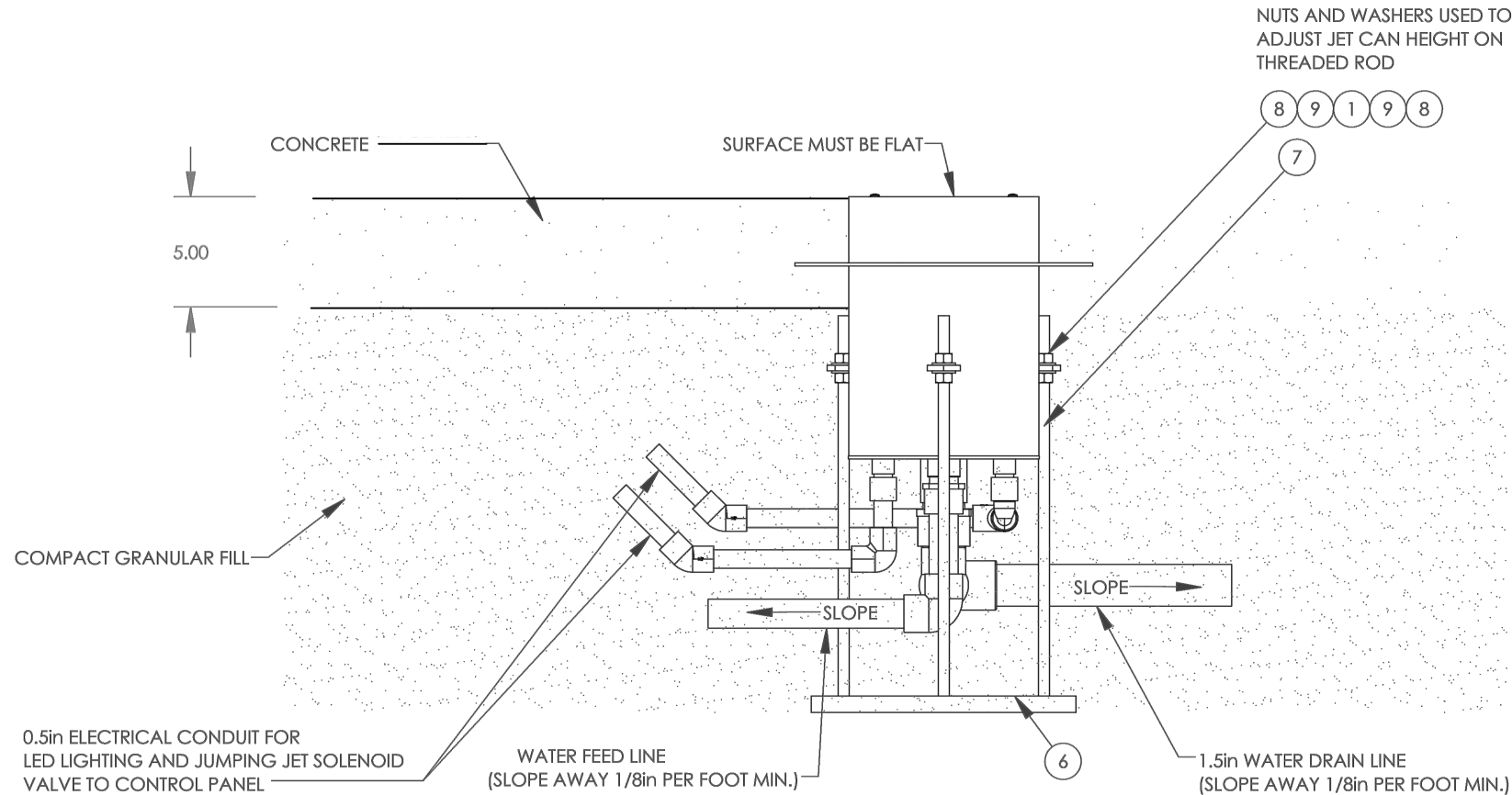


May 06, 2025 - 3:20pm - S:\Projects\400-Parks, Municipal\24-408 Splash Pad at Portwood Pier\01-Incoming\Consultant\Standard\190144-RE-SDG.dwg

- NOTES:
- INTERNAL PLUMBING DETAILS ON PAGE 2
  - NOZZLE ASSEMBLY DETAILS ON PAGE 3
  - 5in MIN CONCRETE THICKNESS, SOME STRUCTURES MAY REQUIRE THICKENED SLAB UNDER STRUCTURE
  - VERIFY LOCAL CODES FOR TYPE, THICKNESS, AND REINFORCEMENT REQUIREMENTS FOR CONCRETE SLAB. CONCRETE TO BE RATED FOR 4000 PSI MINIMUM
  - CONCRETE MOUNTING SURFACE TO BE FLAT, SOME STRUCTURES ALSO REQUIRE LEVEL SURFACE
  - FOLLOW MANUFACTURERS INSTRUCTIONS FOR INSTALLATION OF ANCHOR HARDWARE
  - BOND IN ACCORDANCE WITH NEC ARTICLE 680
  - A VALVE MUST BE INSTALLED ON THE SUPPLY LINE TO REGULATE FLOW

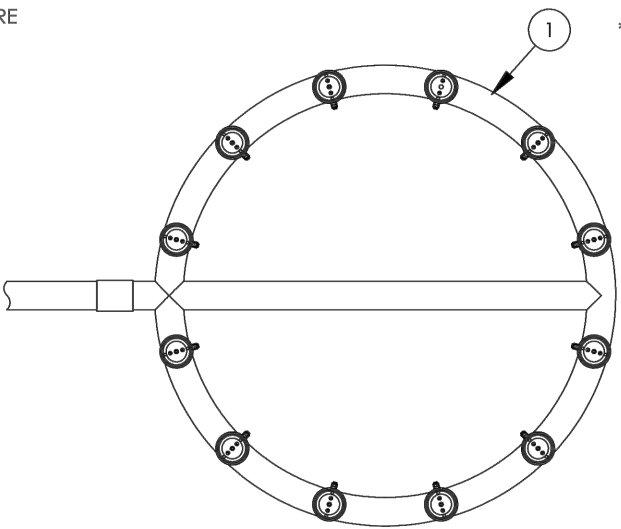


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	AQ200576	SST JET CAN WELDMENT LED-JUMPING JETS	1
2	AQ300349	1/4-20 X 1.25in SST BHCS HEX SKT SECURITY SCREW	2
3	AQ402103	SS POD COVER CLAMP NO-WELD TAB 0.25in 304 SS	2
4	AQ300170	0.25-20 CENTER-LOCK DISTORTED THREAD SS NUT	2
5	AQ401962	WINTER COVER LED - JUMPING - JET CAN	1
6	297453	JET CAN BASE PLATE PLASTIC	1
7	297604	0.5in-13 LOW STRENGTH THREADED ROD ZP STL	1
8	297607	0.5-13 HEX NUT ZP STL	2
9	297608	0.5in SAE FLAT WASHER ZP STL	2



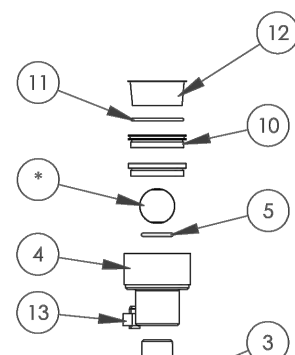
### 1 LED JET CAN INSTALLATION ADD/ALT #2.

- NOTES:
- RINSE AND BRUSH NOZZLE SOCKET AND NOZZLE THREADS BEFORE INSTALLING NOZZLE
  - VERIFY LOCAL CODES FOR TYPE, THICKNESS, AND REINFORCEMENT REQUIREMENTS FOR CONCRETE SLAB. CONCRETE TO BE RATED FOR 4000 PSI MINIMUM
  - REPLACE CONCRETE PLUGS WITH NOZZLE INSERTS AFTER CONCRETE HAS CURED
  - A VALVE MUST BE INSTALLED ON THE SUPPLY LINE TO REGULATE FLOW
  - WINTERIZATION TO BE PERFORMED BY A TRAINED TECHNICIAN FAMILIAR WITH PROPER WINTERIZATION PROCEDURES
  - TO PREVENT DAMAGE OR PERSONAL INJURY, REMOVAL OF THE NOZZLE ASSEMBLIES IS REQUIRED DURING STARTUP AND WINTERIZATION PROCEDURES
  - CLEAN AND LUBRICATE PIPE THREADS WITH TEFLON PASTE PRIOR TO INSTALLING
  - USE ANTI-SIZE THREAD LUBRICANT ON NOZZLE THREADS
  - DO NOT FORCE NOZZLES TO THREAD IN, CLEAN AND LUBRICATE THREADS IF NOZZLE DOES NOT GO IN SMOOTHLY
  - BOND IN ACCORDANCE WITH NEC ARTICLE 680

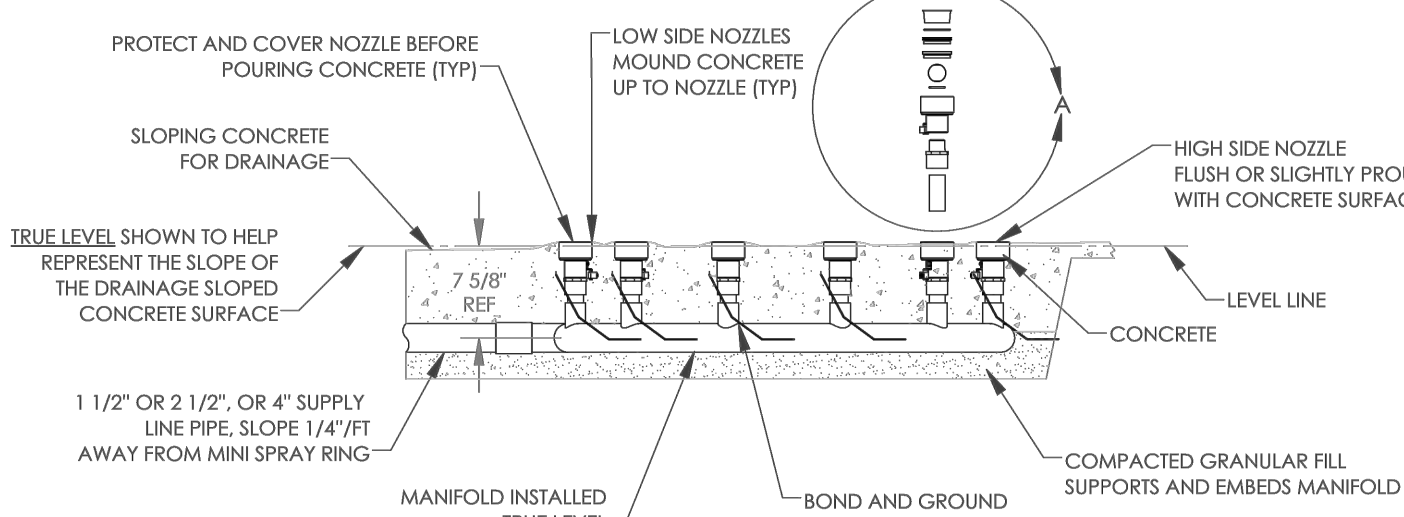


ITEM NO.	QTY.	Number	Description	LENGTH
1	1	AQ200021	MINI SPRAY RING PVC MANIFOLD FABRICATION	
2	12	AQ300077	PIPE ROUND 1 SCH80 PVC	3'
3	12	AQ300020	1in SCH80 PVC MALE ADAPTER SOC X MPT	
4	12	AQ401747	NOZZLE SOCKET - CAST IN - 304L SS	
5	12	313499	O-Ring 1-1/16in ID X 1-5/16in OD X 1/8in Width Viton -215	
6	12	AQ402272	STREAM-ARCH JET EYEBALL - 1 GPM ULTRA LOW FLOW 304L SS	
7	12	AQ401888	STREAM-ARCH JET EYEBALL - 10 GPM HIGH FLOW 304L SS	
8	12	AQ401887	STREAM-ARCH JET EYEBALL - 5 GPM LOW FLOW 304L SS	
9	12	AQ401752	EYEBALL CLAMP 304L SS	
10	12	AQ401749	NOZZLE BLANK WINTER COVER 304L SS	
11	12	AQ300172	O-RING 75A DUROMETER VITON SIZE -136	
12	12	AQ300225	CONCRETE CAP LUG FOR STAINLESS STEEL SOCKET	
13	12	AQ300151	COPPER SET SCREW GROUNDING LUG	
14	12	AQ300284	#10 WASHER OVERSIZED, 0.203 ID x 0.500 OD, SS	
15	12	AQ300159	10-24 THRD 0.25in SS HEX BHCS W/ LOCK PATCH	

\*NOZZLE SELECTED BASED ON FLOW RATE

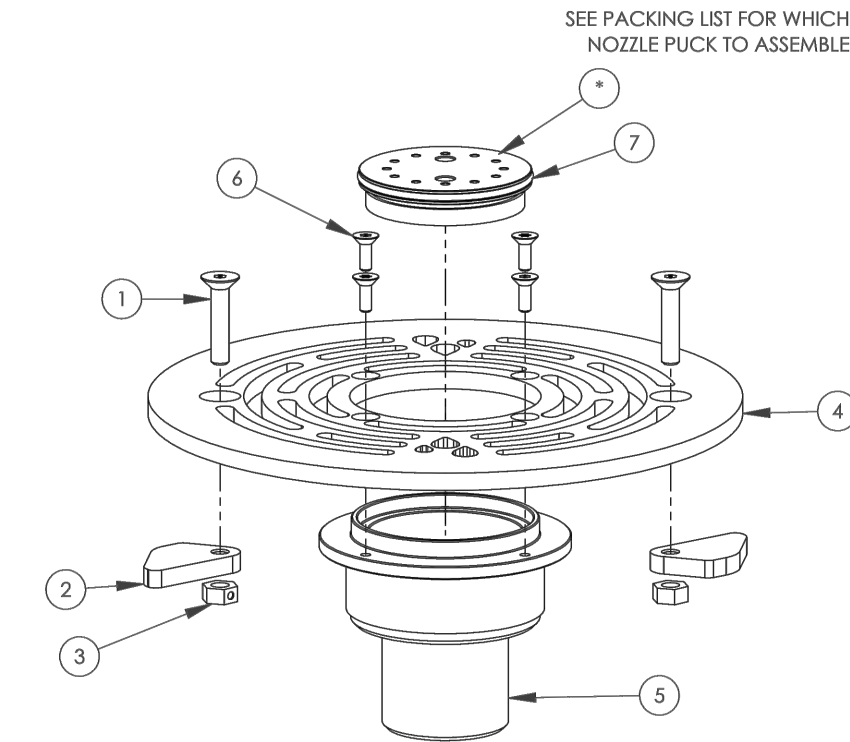
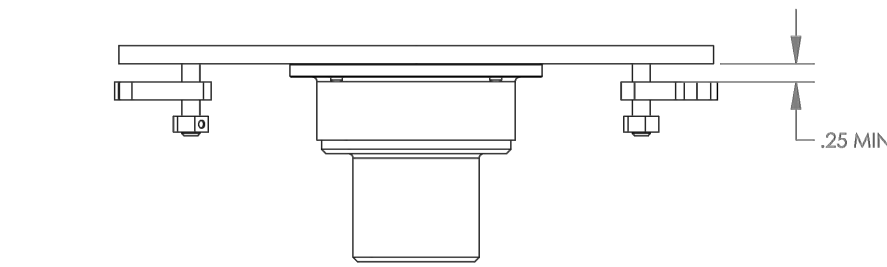


DETAIL A  
SCALE 1 : 6



### 3 MINI OUTWARD SPRAY RING INSTALLATION

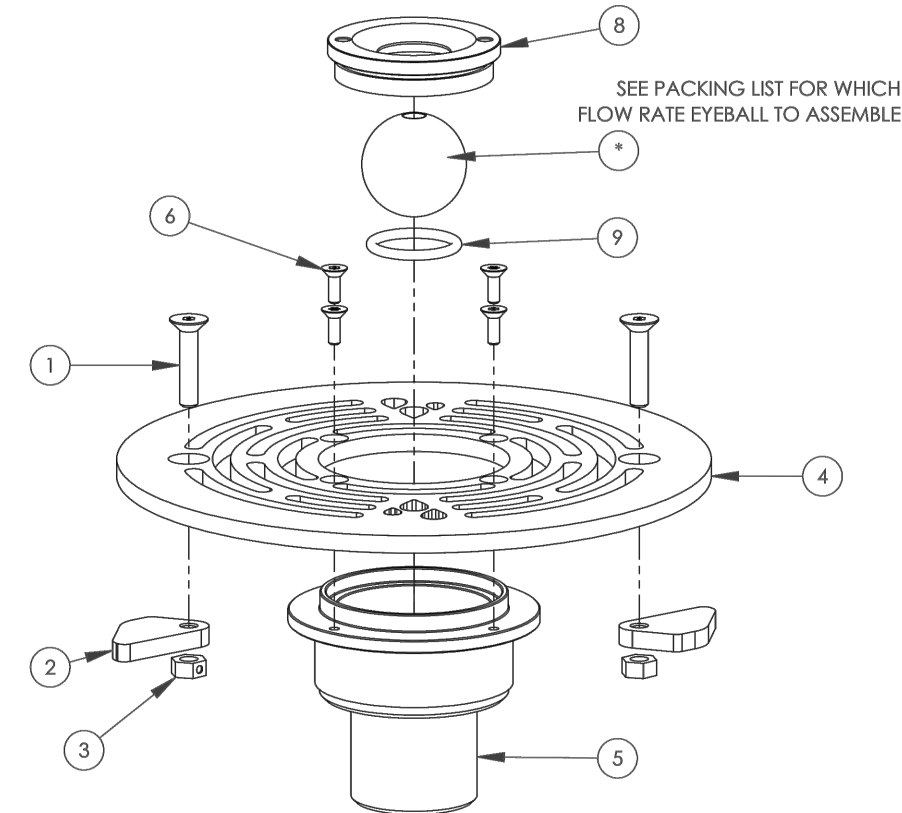
- NOTE:
- REMOVE WINTER COVER BEFORE INSTALLING NOZZLE ASSEMBLY
  - USE ANTI-SIZE THREAD LUBRICANT



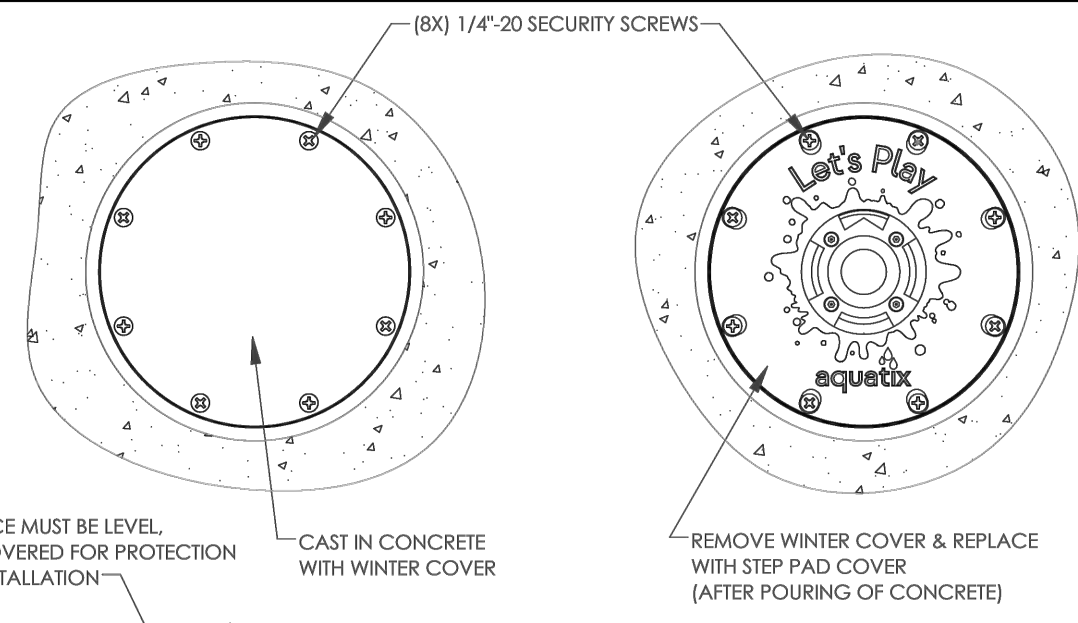
### 2 LED NOZZLE INSTALLATION ADD/ALT #2.

- NOTES:
- 5in MIN CONCRETE THICKNESS, SOME STRUCTURES MAY REQUIRE THICKENED SLAB UNDER STRUCTURE
  - VERIFY LOCAL CODES FOR TYPE, THICKNESS, AND REINFORCEMENT REQUIREMENTS FOR CONCRETE SLAB
  - CONCRETE MOUNTING SURFACE TO BE FLAT, SOME STRUCTURES ALSO REQUIRE LEVEL SURFACE
  - FOLLOW MANUFACTURERS INSTRUCTIONS FOR INSTALLATION OF ANCHOR HARDWARE
  - BOND IN ACCORDANCE WITH NEC ARTICLE 680
  - A VALVE MUST BE INSTALLED ON THE SUPPLY LINE TO REGULATE FLOW
  - UNDERGROUND PLUMBING TO BE DESIGNED FOR WINTERIZATION
  - WINTERIZATION TO BE PERFORMED BY A TRAINED TECHNICIAN FAMILIAR WITH PROPER WINTERIZATION PROCEDURES
  - TO PREVENT DAMAGE OR PERSONAL INJURY, REMOVAL OF THE NOZZLE ASSEMBLIES IS REQUIRED DURING STARTUP AND WINTERIZATION PROCEDURES
  - USE ANTI-SIZE LUBRICANT ON STAINLESS STEEL FASTENERS AND THREADED NOZZLES
  - INSPECT REGULARLY FOR SIGNS OF DAMAGE OR VANDALISM
  - INSPECT REGULARLY FOR LOOSE OR MISSING FASTENERS
  - SPRAY EFFECT MAY VARY BASED ON ENVIRONMENTAL CONDITIONS, FLOW RATES, SLOPE OF PAD, AND SUBMERGENCE DEPTH
  - PRODUCT SPECIFICATIONS SUBJECT TO CHANGE

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	QTY.
1	AQ300318	1/4-20 X 1 1/4 FLAT SSCS	2	2
2	AQ402103	SS POD COVER CLAMP NO-WELD TAB 0.25in 304 SS	2	2
3	AQ300170	0.25-20 CENTER-LOCK DISTORTED THREAD SS NUT	2	2
4	AQ401961	COVER LED - JUMPING JET CAN	1	1
5	AQ401746	NOZZLE SOCKET - JET CAN - 304L SS	1	1
6	AQ300150	8-32 X 0.50in SECURITY TORX SOCKET FLAT HEAD SCREW 18-8SS	4	4
7	AQ300172	O-RING 75A DUROMETER VITON SIZE -136	1	-
8	AQ401752	EYEBALL CLAMP 304L SS	-	1
9	313499	O-Ring 1-1/16in ID X 1-5/16in OD X 1/8in Width Viton -215	-	1



EYEBALL NOZZLE INSTALLATION



### 4 STEP PAD INSTALLATION

SUB-CONSULTANT

CONSULTANT



SCHMIDT  
DESIGN  
GROUP

1310 Rosecrans St., Suite G, San Diego, CA 92106  
619.236.1462  
LIC. CA 2138 | NV 219 | AZ 34139

SCHMIDTDESIGN.COM

SDG PRJ# 24-408

### CITY OF IMPERIAL BEACH, CALIFORNIA ENGINEERING DEPARTMENT SHEET 40 OF 40 SHEETS

FOR CITY ENGINEER DATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL				

CONTRACTOR DATE STARTED  
INSPECTOR DATE COMPLETED

SAN DIEGO UNIFIED PORT DISTRICT

DATE 4/14/2025

SPLASH PAD AT PORTWOOD PIER PLAZA

SPLASH PAD PRODUCT INSTAL DETAILS

A/E NO. A-1.16

SHEET 40 OF 40

DRAWING NO. IB-2025-01

REV. -

### RECORD DRAWING

REVIEWED BY:

PROJECT MANAGER/ENGINEER

DATE:

NOTE:  
THIS DRAWING MAY BE A REDUCED SCALE PRINT OF THE ORIGINAL DRAWING. UTILIZE GRAPHIC SCALES TO VERIFY IF DRAWING IS A REDUCTION, AND ADJUST SCALES ACCORDINGLY TO THE GRAPHIC SCALES SHOWN.

SPEC. NO. 2025-02

WBS NO. BC-0004-01

REFERENCES

PROJECT ENGINEER

CONTRACTOR

CONSTRUCTION STARTED

CONSTRUCTION COMPLETED

COST

INSPECTOR

REVISIONS

DATE / APPROVED



DESIGNED

JM JJ CC

DRAWN

CC

CHECKED

JM JJ

APPROVAL

RECOMMENDED

PROJECT MANAGER

APPROVED

DISTRICT MANAGER-DESIGN