



COUNTY OF IMPERIAL

IMPROVEMENTS FOR THE WIEST LAKE BOAT LAUNCHING FACILITY PROJECT; COUNTY PROJECT NO. SR6081CED



GENERAL NOTES

COUNTY ENCROACHMENT PERMIT CONDITIONS AND PROVISIONS SHALL TAKE PRECEDENCE OVER THE APPROVED PLANS AND SPECIFICATIONS FOR ANY CONFLICTS.

THE STRUCTURAL SECTIONS SHALL BE IN ACCORDANCE WITH IMPERIAL COUNTY STANDARDS (OR CALTRANS IF IN STATE ROW) AND AS APPROVED BY THE PUBLIC WORKS DIRECTOR (OR CALTRANS).

APPROVAL OF THESE IMPROVEMENT PLANS AS SHOWN DOES NOT CONSTITUTE APPROVAL OF ANY CONSTRUCTION OUTSIDE THE PROJECT BOUNDARY.

LOCATION AND ELEVATIONS OF IMPROVEMENTS TO BE MET BY WORK TO BE DONE SHALL BE CONFIRMED BY FIELD MEASUREMENTS 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 REVISION ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES.

UTILITIES COORDINATION

NO LESS THAN 3 WORKING DAYS PRIOR TO ANY EXCAVATION OR TRENCHING, EACH CONTRACTOR DOING SUCH WORK SHALL CONTACT THE FOLLOWING AGENCIES SO THAT EXISTING UNDERGROUND UTILITIES MAY BE LOCATED. THE AGENCY MAY REQUIRE AN INSPECTOR TO BE PRESENT.

GAS:	TELEPHONE NO.	811
I/D POWER:	TELEPHONE NO.	(760) 339-9280
I/D WATER:	TELEPHONE NO.	(760) 339-9263
AT&T TELEPHONE:	TELEPHONE NO.	(800) 422-4133
CATV:	TELEPHONE NO.	(760) 312-6512
WATER AND SEWER - COUNTY WATER DISTRICT	TELEPHONE NO.	(760) 572-0177
TDS TELECOM	TELEPHONE NO.	(760) 572-7100
TIME WARNER COMM.	TELEPHONE NO.	(760) 694-8670

EXISTING UNDERGROUND UTILITIES
 BEFORE EXCAVATING FOR THIS CONTRACT, VERIFY LOCATION OF UNDERGROUND UTILITIES. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS HAS BEEN OBTAINED FROM AVAILABLE RECORDS ONLY AND MAY NOT REFLECT ALL EXISTING UTILITIES. LOCATION OF ALL EXISTING UTILITIES SHALL BE CONFIRMED BY FIELD MEASUREMENTS BY CONTRACTOR PRIOR TO CONSTRUCTION OF WORK. CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN HEREON AND ANY OTHER EXISTING LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.

ACCURATE VERIFICATIONS AS TO SIZE, LOCATION AND DEPTH OF EXISTING UNDERGROUND SERVICES SHALL BE THE CONTRACTORS RESPONSIBILITY. THE CONTRACTOR SHALL NOTIFY THE SOUTHERN CALIFORNIA GAS COMPANY, IMPERIAL IRRIGATION DISTRICT AND ANY OTHER AFFECTED UTILITY AGENCIES PRIOR TO STARTING HIS WORK NEAR SUCH UTILITY FACILITIES AND SHALL COORDINATE HIS WORK WITH UTILITY REPRESENTATIVES. FOR LOCATION OF UNDERGROUND UTILITIES AND APPURTENANCES, CONTACT "UNDERGROUND SERVICE ALERT" AT 811.

IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CONTACT THE UTILITY AGENCIES, ADVISE THEM OF THE PROPOSED IMPROVEMENTS AND BEAR THE COST OF RELOCATION, IF NEEDED.

CONTRACTOR WILL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY STRIPING, PAVEMENT MARKERS, OR LEGENDS OBLITERATED BY THE CONSTRUCTION OF THIS PROJECT.

THE CONTRACTOR SHALL DO ALL NEW STRIPING AND SANDBLASTING OF REDUNDANT STRIPING.

THE CONTRACTOR SHALL BE RESPONSIBLE TO SECURE AN ENCROACHMENT PERMIT FROM THE COUNTY OF IMPERIAL DEPARTMENT OF PUBLIC WORKS FOR ANY EXCAVATION OR CONSTRUCTION WITHIN COUNTY ROAD RIGHT-OF-WAY. FOR INSPECTIONS, 48 HOUR MINIMUM NOTICE IS REQUIRED, (442) 265-1818. ADDITIONALLY, UNDERGROUND SERVICE ALERT (USA) MUST BE CALLED TWO WORKING DAYS BEFORE THE CONTRACTOR MAY EXCAVATE. THEIR CONTACT NUMBER IS 811. ALL WORK AND MATERIALS ARE SUBJECT TO THE INSPECTION AND APPROVAL FROM THE COUNTY DEPARTMENT OF PUBLIC WORKS OR THEIR REPRESENTATIVE.

NO REVISIONS OF ANY KIND SHALL BE MADE TO THESE PLANS WITHOUT THE PRIOR WRITTEN APPROVAL OF BOTH THE COUNTY ENGINEER (OR HIS REPRESENTATIVE) AND THE ENGINEER OF RECORD. A REPRODUCIBLE AS-BUILT PLAN SET WILL BE PROVIDED TO THE PUBLIC WORKS DEPARTMENT AS A CONDITION OF SUBSTANTIAL CONSTRUCTION COMPLETION AND PRIOR TO ACCEPTANCE.

ALL WORK AND MATERIALS SHALL CONFORM TO THESE PLANS AND SPECIFICATIONS. THE IMPERIAL COUNTY DEPARTMENT OF PUBLIC WORKS STANDARDS, DIVISION OF BOATING AND WATERWAYS (DBW) GUIDELINES, AND ENCROACHMENT PERMIT CONDITIONS, ANY REFERENCED STANDARDS AND SPECIFICATIONS AND THE SPECIFICATIONS & THE REQUIREMENTS OF THE AGENCIES REFERRED TO HEREIN. ALL WORK SHOWN OR INDICATED BY THESE PLANS SHALL BE COMPLETED IN ACCORDANCE WITH THE STANDARDS, POLICIES AND REGULATIONS OF IMPERIAL COUNTY; WHERE, OR IF, CONFLICTS OCCUR, THEN THE IMPERIAL COUNTY REQUIREMENTS SHALL GOVERN.

UNLESS SPECIFICALLY INDICATED OTHERWISE METHODS EMPLOYED AND MATERIAL USED IN THE CONSTRUCTION OF ALL OFFSITE IMPROVEMENTS SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THE "STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED MAY 2006". ALL WORK IS SUBJECT TO INSPECTION AND APPROVAL AS REQUIRED.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AN EXCAVATION PERMIT FROM THE STATE OF CALIFORNIA DIVISION OF SAFETY AND TO ADHERE TO ALL PROVISIONS OF THE STATE CONSTRUCTION SAFETY ORDERS AND STANDARDS.

TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CURRENT WORK AREA TRAFFIC CONTROL HANDBOOK OR AS DIRECTED BY THE IMPERIAL COUNTY TRAFFIC ENGINEER.

ANY EXISTING SURVEY MONUMENTS OR COUNTY RECOGNIZED BENCHMARKS SHALL BE PROTECTED BY THE CONTRACTOR. SHOULD ANY SUCH MONUMENTS OR BENCHMARKS BE REMOVED, DAMAGED, OBLITERATED OR ALTERED BY THE CONTRACTORS OPERATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER RESETTling OF THE SAME AS PER THE SUBDIVISION MAP ACT, THE PROFESSIONAL LAND SURVEYORS ACT AND THE SATISFACTION OF THE COUNTY SURVEYOR/DIRECTOR OF PUBLIC WORKS. 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 RECORD OF SURVEY AS APPROPRIATE SHALL BE FILED BY THE LICENSED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER.

DUST SHALL BE CONTROLLED BY THE CONTRACTOR IN ACCORDANCE WITH ALL IMPERIAL COUNTY AIR POLLUTION CONTROL DISTRICT (APCD) FUGITIVE DUST CONTROL RULES AND REGULATIONS AND SHALL COMPLY WITH THEIR PERMITTING REQUIREMENTS, IF APPLICABLE.

THE NOTES LISTED ABOVE ARE A MINIMUM LIST. THIS DOES NOT RELIEVE THE ENGINEER FROM COMPILING ADDITIONAL NOTES THAT MAY BE REQUIRED FOR THE PROJECT.

PROJECT INFORMATION

FUNDED BY:
 CALIFORNIA DEPARTMENT OF PARKS AND RECREATION
 DIVISION OF BOATING AND WATERWAYS

CONSTRUCTION ADMINISTRATION BY:
 COUNTY OF IMPERIAL
 COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT

FACILITIES MAINTENANCE BY:
 COUNTY OF IMPERIAL

SCOPE:
 DEMOLITION AND REMOVAL OF THE EXISTING CONCRETE ABUTMENT, SIDEWALK, A.C. PAVEMENT AND EXISTING SHADE STRUCTURES. CONSTRUCT NEW SHADE STRUCTURES, STEEL FRAME FLOATING SYSTEM, CONCRETE ABUTMENT MODIFICATIONS TO EXISTING RESTROOM, INSTALL RIP-RAP, GRIND AND OVERLAY EXISTING ASPHALT, INSTALL SIGNAGE AND STRIPING AND INSTALL PROJECT CREDIT SIGN.

NOTE TO CONTRACTOR

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

ENGINEER'S NOTE TO CONTRACTOR

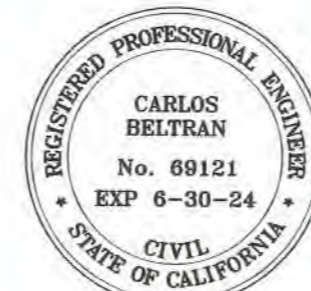
THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN OR NOT SHOWN ON THESE DRAWINGS.

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THE PROJECT, 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 COUNTY OF IMPERIAL IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR THE PROJECT DESIGN.

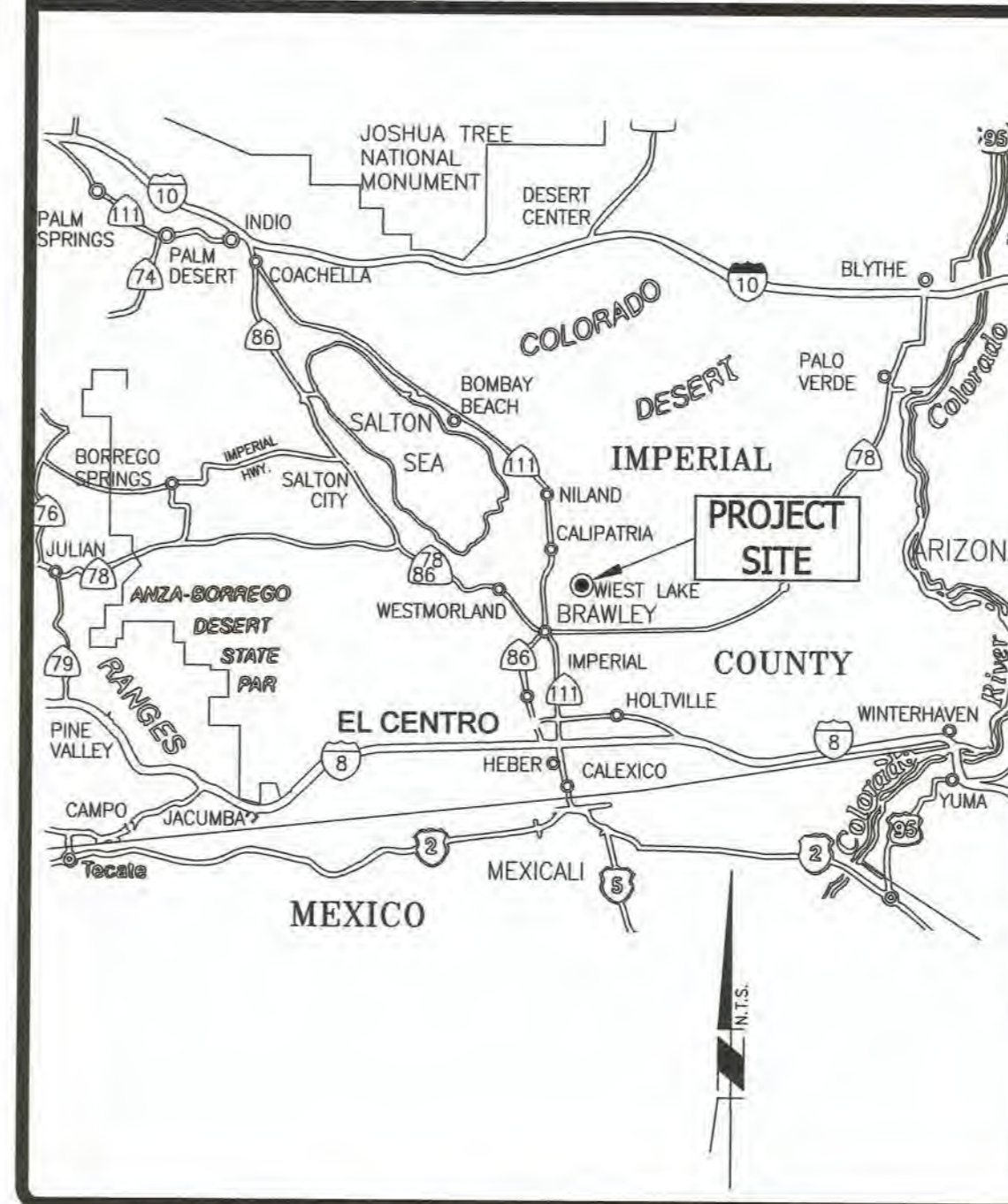
CARLOS BELTRAN, P.E.
 DYNAMIC CONSULTING ENGINEERS, INC
 2415 IMPERIAL BUSINESS PARK DR. STE. B
 IMPERIAL, CA 92251
 (760) 545-0162



CARLOS BELTRAN, P.E.
 R.C.E. # 69121

6/6/23
 DATE

VICINITY MAP



SYMBOLS

ITEM NO.	ITEM	SYMBOL
1	STREET R/W LINE	
2	STREET C/L	
3	CABLE TV	
4	DRAIN (FIELD)	
5	EX. EDGE OF ASPHALT	
6	PROP. EDGE OF ASPHALT	
7	EX. ASPHALT CONCRETE	
8	PROP. ASPHALT CONCRETE	
9	EDGE OF DIRT	
10	CONCRETE SECTION	
11	ROAD STRIPING	
12	CONTOURS - MAJOR	
13	CONTOURS - MINOR	
14	CONTROL	Δ N-17
15	SPOT ELEVATION	+ 961.44
16	BENCHMARK (SEE DESCRIPTION)	\bullet
17	BORROW PIT ELEVATIONS	\circ 967.06±
18	PROPOSED BORROW PIT	\rightarrow

SHEET INDEX

1. TITLE SHEET
2. GENERAL NOTES
3. EXISTING CONDITIONS AND DEMOLITION PLAN
4. GRADING AND IMPROVEMENT PLAN
5. BLOW-UP DETAIL
6. BLOW-UP DETAILS
7. 24'x80' SHADE STRUCTURE
8. 24'x80' SHADE STRUCTURE SECTIONS
9. 24'x140' SHADE STRUCTURE
10. 24'x140' SHADE STRUCTURE SECTIONS
11. 24'x140' SHADE STRUCTURE SECTION
12. SHADE STRUCTURE DETAILS
13. SHADE STRUCTURE SPECIFICATIONS
14. IMPROVEMENT DETAILS
15. IMPROVEMENT DETAILS
16. BOARDING FLOAT SITE PLAN
17. GUIDE PILES DETAILS
18. 8' x 60' BOARDING FLOAT SYSTEM
19. STRIPING PLAN
20. RESTROOM
21. RESTROOM
22. RESTROOM FOUNDATION DETAILS
23. RESTROOM FOUNDATION DETAILS
24. RESTROOM FOUNDATION DETAILS
25. RESTROOM SPECIFICATIONS
25. EXISTING AND PROPOSED UTILITIES

NOTE:
 TOPOGRAPHICAL SURVEY CONDUCTED BY DYNAMIC CONSULTING ENGINEERS ON MAY 2015.



ABBREVIATIONS

AGG.	AGGREGATE	MIN	MINIMUM
APPROX.	APPROXIMATE	N	NORTH
Asph.	ASPHALT	N/O	NORTH OF
B.M.	BENCHMARK	N.T.S.	NOT TO SCALE
CL OR CL	CENTERLINE	OHE	OVER HEAD ELECTRIC
CLR	CLEARANCE	PROP.	PROPOSED
CONC.	CONCRETE	R/W OR ROW	RIGHT-OF-WAY
E	EAST	RD	ROAD
E/O	EAST OF	STA.	STATION
E.P.	EDGE OF PAVEMENT	S	SEWER
EL. OR ELEV.	ELEVATION	SD	STORM DRAIN
EX. OR EXIST.	EXISTING	T.P.	TOP OF PAVEMENT
F.L.	FLOW LINE	THK.	THICK
F.S.	FINISH SURFACE	TYP	TYPICAL
L.F.	LINEAL FEET	W	WATER
MAX	MAXIMUM	W/O	WEST OF

BENCHMARK

PROJECT BENCHMARK:
 THE PROJECT BENCHMARK IS A STANDARD DISK SET IN AN IMPERIAL IRRIGATION DISTRICT CONCRETE HEAD WALL OF A CONCRETE BOX CULVERT. TO REACH THE BENCHMARK, GO 3.55 MILES NORTH ALONG BEST ROAD FROM THE CROSSING OF MAIN STREET IN BRAWLEY TO THE INTERSECTION OF A DIRT ROAD, THEN GO 0.34 MILES WEST ALONG A PRIVATE ROAD JUST BEFORE THE RAILROAD CROSSING, IN THE TOP OF THE EAST CONCRETE HEAD WALL OF A CONCRETE BOX CULVERT, 2.8 FEET SOUTH OF THE NORTH END OF THE HEAD WALL, 7.8 FEET EAST OF THE EAST RAIL, 16.5 FEET SOUTH OF THE CENTER LINE OF THE ROAD, AND ABOUT 6-INCHES HIGHER THAN THE TRACK.

PROJECT ELEVATION: 854.63' (NAVD 88 + 1000)

REVISION	DATE	COMMENTS

PREPARED UNDER THE DIRECT SUPERVISION OF:

CARLOS BELTRAN, P.E.
 No. 69121
 EXP 6-30-24
 CIVIL ENGINEER
 STATE OF CALIFORNIA

69121
 R.C.E. No.

6/6/23
 DATE

06/30/24
 REG. EXP.

Dynamic CONSULTING ENGINEERS

CIVIL ENGINEERING - LAND SURVEYING - CONSTRUCTION MANAGEMENT
 2415 IMPERIAL BUSINESS PARK DRIVE. SUITE B.,
 IMPERIAL, CA. 92251
 TEL. (760) 545-0162 FAX (760) 545-0163

APPROVED BY THE COUNTY OF IMPERIAL:

JOHN GAY
 No. 62028
 EXP 9-30-23
 CIVIL ENGINEER
 STATE OF CALIFORNIA

62028
 R.C.E. No.

09/30/23
 REG. EXP.

JOHN GAY, P.E.
 PUBLIC WORKS DIRECTOR

6/6/23
 DATE

<p>COMMUNITY AND ECONOMIC DEVELOPMENT</p> <p>IMPROVEMENTS FOR THE WIEST LAKE BOAT LAUNCHING FACILITY PROJECT</p>	<p>TITLE SHEET</p> <p>SHEET 1 OF 26</p>
--	---

GENERAL NOTES

- CONTRACTOR SHALL, AT ALL TIMES, KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED BY HIS WORK. AT THE COMPLETION OF THE WORK REMOVE ALL RUBBISH, TOOLS, AND SURPLUS MATERIALS, AND LEAVE THE JOB IN A BROOM CLEAN CONDITION.
- SELECTIVE DEMOLITION SHALL BE DONE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS. REPAIR ANY DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED. RETURN STRUCTURES AND SURFACES TO THE CONDITION PRIOR TO COMMENCEMENT OF SELECTIVE DEMOLITION. REPAIR ADJACENT CONSTRUCTION OR SURFACES, SOILED OR DAMAGED, BY SELECTIVE DEMOLITION WORK.
- A LOCATION FOR THE CONTRACTOR'S CORPORATION YARD WILL BE DESIGNATED WITHIN THE SITE BY THE COUNTY. CONTRACTOR IS PERMITTED TO FENCE THIS AREA TO PROTECT OFFICES, STORED MATERIAL, AND EQUIPMENT. CONTRACTOR IS RESPONSIBLE FOR SECURING HIS/HER EQUIPMENT FROM THEFT OR VANDALISM.
- THESE DRAWINGS DO NOT CONTAIN THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. WORKER AND PEDESTRIAN PROTECTION SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL CURRENTLY APPLICABLE SAFETY LAWS OF ANY JURISDICTIONAL BODY, INCLUDING BUT NOT LIMITED TO OSHA REQUIREMENTS. FOR INFORMATION PLEASE CONTACT THE STATE INDUSTRIAL SAFETY DEPARTMENT (916-455-5818)
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL EXISTING UTILITIES AND FOR THE PROTECTION AND REPAIR OF DAMAGE TO THEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITIES AS TO THE LOCATION OF ALL UNDERGROUND FACILITIES CALL "UNDERGROUND SERVICE ALERT" 811, 48 HOURS BEFORE DIGGING. ALSO CALL AND NOTIFY THE ENGINEER 48 HOURS PRIOR TO DIGGING.
- THE CONTRACTOR IS RESPONSIBLE FOR SITE CONDITIONS DURING WORKING HOURS, INCLUDING PUBLIC SAFETY, DUST CONTROL, AND EROSION AND SEDIMENT CONTROL.
- THE CONTRACTOR IS FINANCIALLY RESPONSIBLE FOR THE MAINTENANCE OR REPAIR OF OFFSITE STREET SURFACES WHERE DAMAGE HAS BEEN SUSTAINED BECAUSE OF THE CONSTRUCTION TRAFFIC.
- CONSTRUCTION NOISE SHALL BE IN COMPLIANCE WITH COUNTY REQUIREMENTS. CONSULT THE COUNTY FOR SPECIFIC RESTRICTIONS AND HOURS OF OPERATION.
- THE CONTRACTOR SHALL MAINTAIN AN ACCURATE RECORD OF ALL APPROVED DEVIATIONS FROM THE PLANS BEFORE AND DURING CONSTRUCTION. UPON COMPLETION OF WORK, ONE SET OF RED-LINED AS-BUILT PLANS SHALL BE SUBMITTED TO THE COUNTY FOR REVIEW AND ACCEPTANCE.
- NO SOILS REPORT PROVIDED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING SOIL CONDITIONS PRIOR TO BIDDING.
- THE TYPES, LOCATIONS, SIZES, AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE IMPROVEMENT PLANS WHERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER THE COUNTY CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THE DELINEATION OF SUCH UNDERGROUND UTILITIES NOR FOR THE EXISTENCE OF OTHER BURIED OBJECT OR UTILITIES WHICH MAY BE ENCOUNTERED BUT ARE NOT SHOWN NOR IDENTIFIED ON THESE DRAWINGS.
- SIGN CALL-OUTS REFERENCE THE CALIFORNIA MANUAL IN UNIFORM TRAFFIC CONTROL DEVICES (CAMUTCD)
- ALL PIPE LENGTHS ARE TO THE CENTERLINES OF STRUCTURES.
- THE CONTRACTOR SHALL LEAVE A MINIMUM OF 12 INCHES OF MANHOLE WALL UNDISTURBED BETWEEN CORINGS FOR PIPE TIE-INS. IF THIS CANNOT BE ACCOMPLISHED, THE CONTRACTORS SHALL NOTIFY THE ENGINEER AND A LARGER MANHOLE SHALL BE USED. THE CONTRACTOR SHALL ALSO LEAVE THE MINIMUM WALL CLEARANCE FOR DROP INLETS AS REQUIRED BY THE MANUFACTURER SELECTED. SHOULD A PIPE SIZE EXCEED THE MAXIMUM ALLOWED BY THE MANUFACTURER, A LARGER INLET SHALL BE USED.
- ALL FLATWORK AND CURBS SHALL BE CONSTRUCTED TO COMPLY WITH CURRENT TITLE 24 ADA ACCESSIBILITY LAWS AND 2010 ADA STANDARDS. THIS REQUIRES "EXTRA EFFORT" IN ACHIEVING THE ACCURACY OF THE GRADES AND SLOPES REQUIRED (FINISHED GRADES OF CONCRETE IN TITLE 24 FOR ACCESSIBLE DESIGN AREAS SHALL BE WITHIN A TOLERANCE OF +/- 1/8" OF PROPOSED GRADES.) PRIOR TO POURING ANY CURB OR FLATWORK AROUND THE PERIMETER OF ANY BUILDING, THE CONCRETE CONTRACTOR SHALL VERIFY THAT THE GRADE OF THE FINISHED FLOOR AND THE FLATWORK/CURB FORMS ARE IN THE PROPER GRADE DIFFERENTIAL PRIOR TO POURING CONCRETE TO ANY TITLE 24 STANDARDS ROUTE OF ACCESS. IF ANY DIFFERENCES ARE FOUND NOTIFY THE PROJECT ENGINEER IMMEDIATELY PRIOR TO PROCEEDING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE COUNTY 48-HOURS PRIOR TO COMMENCING WORK AND 24-HOURS PRIOR TO RESUMPTION AFTER INTERRUPTION. REQUEST FOR INSPECTION SHALL BE GIVEN 72-HOURS IN ADVANCE, AND BE PERFORMED BY THE STATE ENGINEER OR THE AUTHORIZED REPRESENTATIVE.
- IT IS POSSIBLE THAT PREVIOUS ACTIVITIES HAVE OBLITERATED SURFACE EVIDENCE OF CULTURAL RESOURCES OR THAT PREVIOUSLY UNDISCOVERED CULTURAL RESOURCES OR THAT PREVIOUSLY UNDISCOVERED CULTURAL RESOURCES ARE ENCOUNTERED DURING EARTH-MOVING ACTIVITIES. ALL CONSTRUCTION ACTIVITY WITHIN 100 FEET OF THE RESOURCES SHALL BE HALTED IMMEDIATELY AND THE APPROPRIATE AUTHORITIES NOTIFIED. IF SUSPECTED HUMAN REMAINS ARE ENCOUNTERED THE COUNTY CORONER AND THE DIVISION OF BOATING AND WATERWAYS SHOULD BE NOTIFIED IMMEDIATELY. IF PREHISTORIC OR HISTORIC ERROR SOURCES ARE ENCOUNTERED THE DIVISION OF BOATING AND WATERWAYS AND A QUALIFIED ARCHAEOLOGIST SHOULD BE NOTIFIED IMMEDIATELY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING ALL CONFLICTS, ERRORS, OMISSIONS, ETC. TO THE COUNTY IMMEDIATELY UPON DISCOVERY. IF SO DIRECTED BY THE COUNTY, THE CONTRACTOR SHALL STOP WORK UNTIL MITIGATION CAN BE MADE. AND COSTS INCURRED RESULTING FROM THE CONTRACTOR'S FAILURE TO STOP WORK AS DIRECTED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- APPROVAL OF THESE PLANS DOES NOT AUTHORIZE OR APPROVE ANY OMISSIONS OR DEVIATION FROM APPLICABLE REGULATIONS. FINAL APPROVAL IS SUBJECT TO FIELD INSPECTION. ONE SET OF APPROVED PLANS AND SPECIFICATIONS SHALL BE AVAILABLE ON THE PROJECT SITE AT ALL TIMES
- PLANS ARE TO BE PER THE LATEST EDITION OF THE LAYOUT DESIGN AND CONSTRUCTION HANDBOOK FOR SMALL CRAFT BOAT LAUNCHING FACILITIES BY THE STATE OF CALIFORNIA DIVISION OF BOATING AND WATERWAYS.

TESTING REQUIREMENTS

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EARTHWORK COMPACTION TESTING. THE COUNTY SHALL BE NOTIFIED AT LEAST 72 HOURS IN ADVANCE OF ANY SCHEDULED COMPACTION TESTING BEING PERFORMED ON THE SITE. ALL COMPACTION TESTING SHALL BE PERFORMED BY REGISTERED SOIL ENGINEER IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND SHALL BE PAID FOR BY THE CONTRACTOR. RESULTS OF THIS TEST SHALL BECOME THE PROPERTY OF THE STATE. ANY RETESTING DEEMED NECESSARY BY THE STATE ENGINEER SHALL BE PAID FOR THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL AGGREGATE BASE COMPACTION TESTING. THE COUNTY SHALL BE NOTIFIED AT LEAST 72 HOURS IN ADVANCE OF ANY SCHEDULED COMPACTION TESTING BEING PERFORMED ON THE SITE. ALL COMPACTION TESTING SHALL BE PERFORMED BY A REGISTERED SOIL ENGINEER IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND SHALL BE PAID FOR BY THE CONTRACTOR. RESULTS OF THESE TESTS SHALL BECOME THE PROPERTY OF THE COUNTY ANY RETESTING DEEMED NECESSARY BY THE COUNTY SHALL BE PAID FOR BY THE CONTRACTOR
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AGGREGATE CONCRETE TESTING DEEMED NECESSARY BY THE COUNTY. THE COUNTY SHALL BE NOTIFIED AT LEAST 72 HOURS IN ADVANCE OF ANY SCHEDULED PAVING OPERATIONS BEING PERFORMED ON THE SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR EMPLOYING A TESTING AGENCY TO PERFORM CONCRETE TESTING AT THEIR EXPENSE. ALL RESULTS OF THE CONCRETE TESTING SHALL BECOME PROPERTY OF THE COUNTY. THE CONTRACTOR SHALL SUPPLY ONE (1) SET OF FOUR (4) STANDARD CYLINDERS FOR EVERY 20 CUBIC YARDS OF CONCRETE PLACED, OR FOR EACH MAJOR PLACEMENT DURING THE DAY. ONE SPECIMEN SHALL BE TESTED AT SEVEN (7) DAYS, TWO (2) SPECIMENS TESTED AT 28 DAYS, AND ONE (1) SPECIMEN RETAINED IN RESERVE FOR LATER TESTING IF REQUIRED. COMPRESSIVE STRENGTH TESTS SHALL BE PERFORMED AS PER REQUIREMENTS SET FORTH IN THE PROJECT SPECIFICATIONS. THE STATE ENGINEER SHALL BE NOTIFIED AT LEAST 72-HOURS IN ADVANCE OF ANY SCHEDULED CONCRETE POURING BEING PERFORMED ON THE SITE. PRIOR TO ANY CONCRETE PLACEMENT, FORMWORK, AND REBAR PLACEMENT MUST BE INSPECTED AND APPROVED BY THE STATE ENGINEER. FAILURE TO RECEIVE APPROVAL BY THE STATE ENGINEER ON FORMWORK AND REBAR PLACEMENT PRIOR TO POURING CONCRETE MAY RESULT IN THE CONTRACTOR DEMOLISHING IMPROVEMENTS AT THEIR EXPENSE.
- V-GROOVE CONSTRUCTION. PRIOR TO BEGINNING CONCRETE WORK ON THE ACTUAL LAUNCHING RAMP, THE CONTRACTOR SHALL MAKE A 4'X8'X4" V-GROOVE CONCRETE TEST PANELS ON FLAT GROUND AT THE CONSTRUCTION SITE. UPON APPROVAL AND ACCEPTANCE OF THE TEST PANEL BY THE ENGINEER OR INSPECTOR, THE CONTRACTOR MAY BEGIN CONSTRUCTION OF THE V-GROOVES FORMED ON THE ACTUAL LAUNCHING RAMP. V-GROOVES SHALL BE CONSTRUCTED PER THE CA DEPARTMENT OF BOATING AND WATERWAYS, BOATING FACILITIES DIVISION, LAYOUT, DESIGN AND CONSTRUCTION HANDBOOK SECTION 202.

UTILITY NOTES

GENERAL UTILITY SERVICE NOTE

- SERVICES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE CALIFORNIA PLUMBING CODE (UPC). THE CONTRACTOR SHALL COMPLY WITH THE MOST CONSERVATIVE AND STRINGENT GUIDANCE IF A CONFLICT SHOULD ARISE.
- THE CONTRACTOR MAY SUBSTITUTE PIPE MATERIAL AS ALLOWED BY THE CODE AND APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.

SANITARY SEWER SERVICE NOTES

- AS APPLICABLE, ALL SANITARY SEWER CLEANOUT SUBJECT TO VEHICULAR WHEEL LOADING SHALL BE CONSTRUCTED WITH A TRAFFIC RATED LID AND COVER (HS20 LOADING)
- PIPE MATERIAL FOR SEWER SERVICES SHALL BE PER CPC.

WATER SERVICE NOTES

- AS APPLICABLE, ALL WATER SERVICE BOXES, LIDS, COVER AND ETC SUBJECT TO VEHICULAR WHEEL LOADING SHALL BE CONSTRUCTED WITH A TRAFFIC RATED LID & COVER (HS 20 LOADING)
- PIPE MATERIAL FOR WATER SERVICES SHALL BE PER CBC.

ACCESSIBILITY NOTES

- ALL FLATWORK AND CURBS SHALL BE CONSTRUCTED TO COMPLY WITH CURRENT TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS (CCR) OF THE AMERICAN WITH DISABILITIES ACT (ADA) ACCESSIBILITY LAWS 2010 ADA STANDARDS. THIS REQUIRES "EXTRA EFFORT" IN ACHIEVING THE ACCURACY OF THE GRADES AND SLOPES REQUIRED (FINISHED GRADES OF CONCRETE IN TITLE 24 AREAS SHALL BE WITHIN A TOLERANCE OF +/- 1/8" OF PROPOSED GRADES.) PRIOR TO POURING ANY CURB OR FLATWORK AROUND THE PERIMETER OF ANY BUILDING, THE CONCRETE CONTRACTOR SHALL VERIFY THAT THE GRADE OF THE FINISHED FLOOR AND THE FLATWORK/CURB FORMS ARE IN THE PROPER GRADE DIFFERENTIAL PRIOR TO POURING CONCRETE ON ANY TITLE 24 2010 ADA STANDARDS ROUTE OF ACCESS. IF ANY DIFFERENCES ARE FOUND, NOTIFY THE PROJECT ENGINEER IMMEDIATELY PRIOR TO PROCEEDING.
- PARKING
 - SURFACE SLOPES FOR PARKING SPACES FOR PERSONS WITH PHYSICAL DISABILITIES SHALL NOT EXCEED 2% IN ANY DIRECTION.
- CURB RAMPS
 - A CURB RAMP SHALL BE A MINIMUM OF 4 FEET IN WIDTH AND SHALL LIE GENERALLY IN A SINGLE SLOPED PLANE WITH A MINIMUM OF SURFACE WARPING AND CROSS SLOPE.
 - BUILT-UP CURB RAMPS, IF SHOWN, SHALL BE LOCATED SO THAT THEY DO NOT PROJECT INTO VEHICULAR TRAFFIC LANES.
 - CURB RAMPS AT MARKED CROSSING SHALL BE WHOLLY CONTAINED WITHIN MARKINGS EXCLUDING ANY FLARED SIDES.
 - THE SLOPES OF CURB RAMP SHALL NOT EXCEED 8.3% ON EITHER THE RAMP OR THE FLARED SIDES.
 - A LEVEL LANDING 4 FEET DEEP SHALL BE PROVIDED AT THE UPPER END OF EACH CURB RAMP OVER ITS FULL WIDTH TO PERMIT SAFE EGRESS FROM THE RAMP SURFACE, OR THE SLOPE OF THE FANNED OR FLARED SIDES OF THE CURB RAMP SHALL NOT EXCEED 8.3%
 - THE LOWER END OF EACH CURB RAMP SHALL NOT HAVE A LIP AND BE CONSTRUCTED WITH A FLUSH TRANSITION.
 - ALL CURB RAMPS SHALL HAVE A GROOVED BORDER 12 INCHES WIDE AT THE LEVEL SURFACE OF THE SIDEWALK ALONG THE TOP AND EACH SIDE WITH 3/4" GROOVES APPROXIMATELY 3/4" ON CENTER PER ADA GUIDELINES. ALL CURB RAMPS CONSTRUCTED BETWEEN THE FACE OF THE CURB AND THE STREET SHALL HAVE DETECTABLE WARNINGS (TRUNCATED DOMES).
- WALKS AND SIDEWALKS
 - WALKS AND SIDEWALKS SHALL HAVE A CONTINUOUS COMMON SURFACE NOT INTERRUPTED BY STEPS OR BY ABRUPT CHANGES IN LEVEL EXCEEDING 1/4 INCH OR UP TO A 1/2 INCH IF BEVELED, AND SHALL BE A MINIMUM OF 4 FEET IN WIDTH.
 - SURFACE CROSS SLOPES SHALL NOT EXCEED 1/4 INCH PER FOOT.
 - WALKS SIDEWALKS AND PEDESTRIAN WAYS SHALL BE FREE OF GRATING WHENEVER POSSIBLE. FOR GRATINGS LOCATED IN THE SURFACE OF ANY OF THESE AREAS, GRID OPENINGS IN GRATINGS SHALL BE LIMITED TO 1/2" IN THE DIRECTION IN TRAFFIC FLOW. THE LONG DIMENSION OF GRATING OPENINGS SHALL BE PERPENDICULAR TO THE PEDESTRIAN ROUTE.
 - ALL WALKS SHALL HAVE LESS THAN 2% CROSS SLOPE AND LESS THAN 5% RUNNING SLOPE WHEN PART OF AN ACCESSIBLE ROUTE. WHEN THE SLOPE IN THE DIRECTION OF TRAVEL OF ANY WALK EXCEEDS 1 VERTICAL TO 20 HORIZONTAL IT SHALL COMPLY WITH THE ADA PROVISIONS FOR PEDESTRIAN RAMPS.
 - ABRUPT CHANGES IN LEVEL ALONG ANY ACCESSIBLE ROUTE SHALL BE AVOIDED. WHEN CHANGES IN LEVEL DO OCCUR, THEY SHALL NOT EXCEED 1/2 INCH AND BEVELED WITH A SLOPE OF NO GREATER THAN 1:2 EXCEPT THAT LEVEL CHANGES NOT EXCEEDING 1/4 INCHES MAY BE VERTICAL WHEN CHANGES IN LEVEL GREAT THAN 1/2 INCH ARE NECESSARY. COMPLY WITH THE REQUIREMENTS FOR CURB RAMPS.
 - WALKS SHALL BE PROVIDED WITH A LEVEL AREA NOT LESS THAN 60 INCHES AT A DOOR OR GATE THAT SWINGS TOWARD THE WALK, AND NOT LESS THAN 48 INCHES WIDE BY 44 INCHES DEEP THAT A DOOR OR GATE THAT SWINGS AWAY FROM THE WALK. SUCH WALKS SHALL EXTEND 24 INCHES TO THE SIDE OF THE STRIKE EDGE OF A DOOR OR GATE THAT SWINGS TOWARD THE WALK.
 - ALL WALKS WITH CONTINUOUS GRADIENTS SHALL HAVE LEVEL AREAS OF AT LEAST 5 FEET IN LENGTH AT INTERVALS OF AT LEAST EVERY 400 FEET.
 - IF A WALK CROSSES OR ADJOINS A VEHICULAR TRAVEL WAY, AND THE WALKING SURFACES ARE NOT SEPARATED BY CURBS, RAILINGS OR OTHER ELEMENTS BETWEEN THE PEDESTRIAN AREAS AND VEHICULAR AREAS, THE BOUNDARY BETWEEN THE AREAS SHALL BE DEFINED BY A CONTENTIOUS DETECTABLE WARNING WHICH IS 36 INCHES WIDE, CONSISTING OF TRUNCATED DOMES.
- RAMPS
 - ANY PATH OF TRAVEL SHALL BE CONSIDERED A RAMP IF ITS SLOPE IS GREATER THAN 1:20
 - RAMPS WITH A RISE GREATER THAN 6 INCHES AND A HORIZONTAL PROJECTION GREATER THAN 72 INCHES SHALL HAVE HANDRAILS ON BOTH SIDES.
 - THE TOP LANDING ON A RAMP MUST BE AT LEAST 60 INCHES IN DEPTH.
 - IF A DOOR SWINGS ONTO A TOP LANDING, THE MINIMUM LANDING DIMENSION SHALL BE NOT LESS THAN 60 INCHES CLEAR PLUS THE WIDTH OF THE DOOR.
 - INTERMEDIATE LANDINGS SHALL BE PROVIDED AT TURNS AND WHENEVER THE CHANGE IN LEVEL EXCEEDS 30 INCHES.
 - INTERMEDIATE LANDINGS ON STRAIGHT RAMPS SHALL HAVE A DEPTH OF NOT LESS THAN 5'-0" INTERMEDIATE LANDINGS ON RAMPS THAT TURN GREATER THAN 30° SHALL BE NOT LESS THAN 6'-0"
 - RAMPS SHALL BE NOT LESS THAN 4'-0" WIDE. RAMPS SERVING A PRIMARY ENTRANCE FOR AN OCCUPANT LOAD OF 300 OR MORE PEOPLE SHALL BE NOT LESS THAN 5'-0" WIDE.
 - HANDRAILS SHALL BE PLACED ON EACH SIDE OF EACH RAMP AND SHALL BE CONTINUOUS THE FULL LENGTH OF THE RAMP. HANDRAILS SHOULD BE 34 TO 38 INCHES ABOVE THE RAMP SURFACE AND EXTEND A MINIMUM OF 1 FOOT BEYOND THE TOP AND BOTTOM OF THE RAMP. THE HANDRAILS SHOULD BE CONSISTENT IN HEIGHT THROUGH THE ENTIRE RAMP.
 - SURFACES OF RAMPS SHALL BE SLIP RESISTANT (MEDIUM BROOM FINISH)
 - RAMP SLOPES ARE NOT GREATER THAN 1:12 AND NO LESS THAN 1:20 WHEN PART OF AN ACCESSIBLE ROUTE.
- STAIRS
 - STAIRWAYS WITH MORE THAN 1 STEP SHALL HAVE HANDRAILS ON EACH SIDE, AS SHOWN ON THE PLANS. HANDRAILS MUST BE 1-1/4 INCHES IN EITHER CROSS SECTIONAL DIMENSION AND 1-1/2 INCHES CLEAR FROM THE WALL EDGES AND SHALL HAVE A MINIMUM RADIUS OF 1/8 INCH.
 - CAST IRON (NON-SKID STAIR NOSING, MINIMUM 2" WIDE WITH A CONTRASTING COLOR STRIP AT UPPER APPROACH AND AT EVERY TREAD SHALL BE INSTALLED ON ALL EXTERIOR STEPS.

EROSION CONTROL NOTES

- ALL EROSION & SEDIMENT CONTROL BMP'S SHALL BE IN ACCORDANCE WITH:
 - CALTRANS STORM WATER QUALITY HANDBOOK, CONSTRUCTION SITE BMP'S MANUAL, LATEST EDITION
 - CALTRANS STORM WATER QUALITY HANDBOOK, CONSTRUCTION CONTRACTORS GUIDE AND SPECIFICATIONS, LATEST EDITION
- ALL WORK EQUIPMENT SHALL BE WASHED AT A LOCATION OFF THE PROJECT SITE.
- CONTRACTOR SHALL PERFORM LITER REMOVAL IN CONJUNCTION WITH CONSTRUCTION ACTIVITIES.
- STRAW WATTLES SHALL BE PLACED IN APPROPRIATE AREAS TO PREVENT SILT/SEDIMENT FROM ENTERING THE WATER BODY AT ALL TIMES DURING CONSTRUCTION.
- EROSION CONTROL BEST MANAGEMENT PRACTICE (BMP'S) SHALL BE INSTALLED AND MAINTAINED DURING THE WET SEASON (OCTOBER 1 THROUGH APRIL 30). SEDIMENT CONTROL BMP'S SHALL BE INSTALLED AND MAINTAINED ALL YEAR ROUND.
- ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE PROTECTED FROM EROSION DURING THE WET SEASON (OCTOBER 1 THROUGH APRIL 30). HYDROSEED, IF UTILIZED, MUST BE PLACED BY SEPTEMBER 15. HYDROSEED PLACED DURING THE WET SEASON SHALL USE A SECONDARY EROSION PROTECTION METHOD SUCH AS STRAW MULCH, SOIL BINDER OR EROSION CONTROL BLANKETS/MATS.
- NO WORK SHALL TAKE PLACE DURING RAIN EVENTS, AND IN PREPARATION FOR SUCH EVENTS, ANY LOOSE SEDIMENTS/SILT OR OTHER MATERIALS SHALL BE COVERED WITH WOVEN FABRIC AND SURROUNDED BY STRAW WATTLES.
- EROSION AND SEDIMENT CONTROL MEASURES FOR THIS PROJECT SHALL BE IN COMPLIANCE AT ALL TIMES WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED FOR THE PROJECT IN ACCORDANCE WITH THE STATE OF CALIFORNIA GENERAL CONSTRUCTION PERMIT. THIS PERMIT REQUIRES THAT THE SWPPP BE KEPT UP TO DATE TO REFLECT THE CHANGING SITE CONDITIONS AND THE SWPPP IS TO BE AVAILABLE ON SITE AND ACCESSIBLE AT ALL TIMES FOR INSPECTION AND REVIEW BY THE STATE.
- THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL DURING ALL PHASES OF CONSTRUCTION. WATER OR OTHER APPROVED METHODS SHALL BE USED TO CONTROL WINDBLOWN DUST AND PARTICLES. DUST AND PARTICLES SHALL NOT LEAVE THE CONSTRUCTION SITE. DUST CONTROL SHALL BE UTILIZED OVERALL DISTURBED AREAS (UNLESS SUITABLY STABILIZED) REGARDLESS OF WHETHER ACTIVE WORK IS UNDERWAY. THE FOLLOWING MEASURES SHALL BE IMPLEMENTED:
 - WATER EXPOSED SURFACES, GRADED AREAS, STORAGE PILES, AND HAUL ROADS AT LEAST TWICE DAILY.
 - MINIMIZE THE AMOUNT OF DISTURBED AREA, THE AMOUNT OF MATERIAL ACTIVELY WORKED, AND THE AMOUNT OF MATERIAL STOCKPILED.
 - LIMIT ON-SITE CONSTRUCTION VEHICLE SPEEDS TO 15 MPH.
 - SWEEP OR WASH PAVED STREETS ADJACENT TO PROJECT CONSTRUCTION SITES AT LEAST ONCE A DAY TO REMOVE ACCUMULATED DUST / DEBRIS.
 - MAINTAIN AT LEAST TWO FEET OR FREEBOARD WHEN TRANSPORTING SOIL OR OTHER MATERIAL BY TRUCK.
- THE CONTRACTOR SHALL STAMP ALL STORM DRAIN INLETS WITH THE WORDS "NO DUMPING" AND "FLOWS TO RIVER" WITH A MINIMUM OF 2 - INCH BLOCK LETTERING PERCEPTION 1/4" DEEP IN THE CURB OR WITHIN TWO INCH DISTANCE OF THE CURB ADJACENT TO THE DRAIN INLET.

CODES AND STANDARDS

- 2016 CALIFORNIA BUILDING CODE (CBC), TITLE 24 PART 2
- 2016 CALIFORNIA ELECTRICAL CODE, TITLE 24 PART 3
- 2016 CALIFORNIA MECHANICAL CODE, TITLE 24 PART 4
- 2016 CALIFORNIA PLUMBING CODE, TITLE 24 PART 5
- 2016 CALIFORNIA BUILDING ENERGY CODE, TITLE 24 PART 6
- 2016 CALIFORNIA FIRE CODE, TITLE 24 PART 9
- 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE

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

ACI - AMERICAN CONCRETE INSTITUTE, ACI 530, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES"

2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.

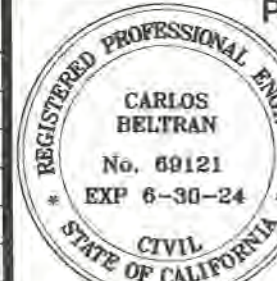
AISC - AMERICAN INSTITUTE OF STEEL CONSTRUCTION, "STEEL CONSTRUCTION MANUAL, 13TH EDITION"

CODE SUMMARY:

OCCUPANCY TYPE: U - UTILITY AND MISCELLANEOUS
CONSTRUCTION: MASONRY
AREA ALLOWABLE: 51.11 SQ FT
HEIGHT: 1 STORY
HEIGHT ALLOWABLE: N/A
OCCUPANT LOAD: 1

REVISION	DATE	COMMENTS

PREPARED UNDER THE DIRECT SUPERVISION OF:

 **CARLOS BELTRAN, P.E.**


No. 69121
EXP. 6-30-24

6/2/23 DATE

69121 R.C.E. No.
08/30/24 REG. EXP.

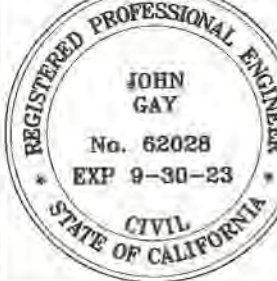
 **Dynamic CONSULTING ENGINEERS**

CIVIL ENGINEERING - LAND SURVEYING - CONSTRUCTION MANAGEMENT
2415 IMPERIAL BUSINESS PARK DRIVE, SUITE B.,
IMPERIAL, CA. 92251
TEL. (760) 545-0162 FAX (760) 545-0163

 **PUBLIC WORKS DEPARTMENT**

COUNTY OF IMPERIAL

APPROVED BY THE COUNTY OF IMPERIAL:

 **JOHN GAY, P.E.**

No. 62028
EXP. 9-30-23

6/6/23 DATE

62028 R.C.E. No.
09/30/23 REG. EXP.




COMMUNITY AND ECONOMIC DEVELOPMENT

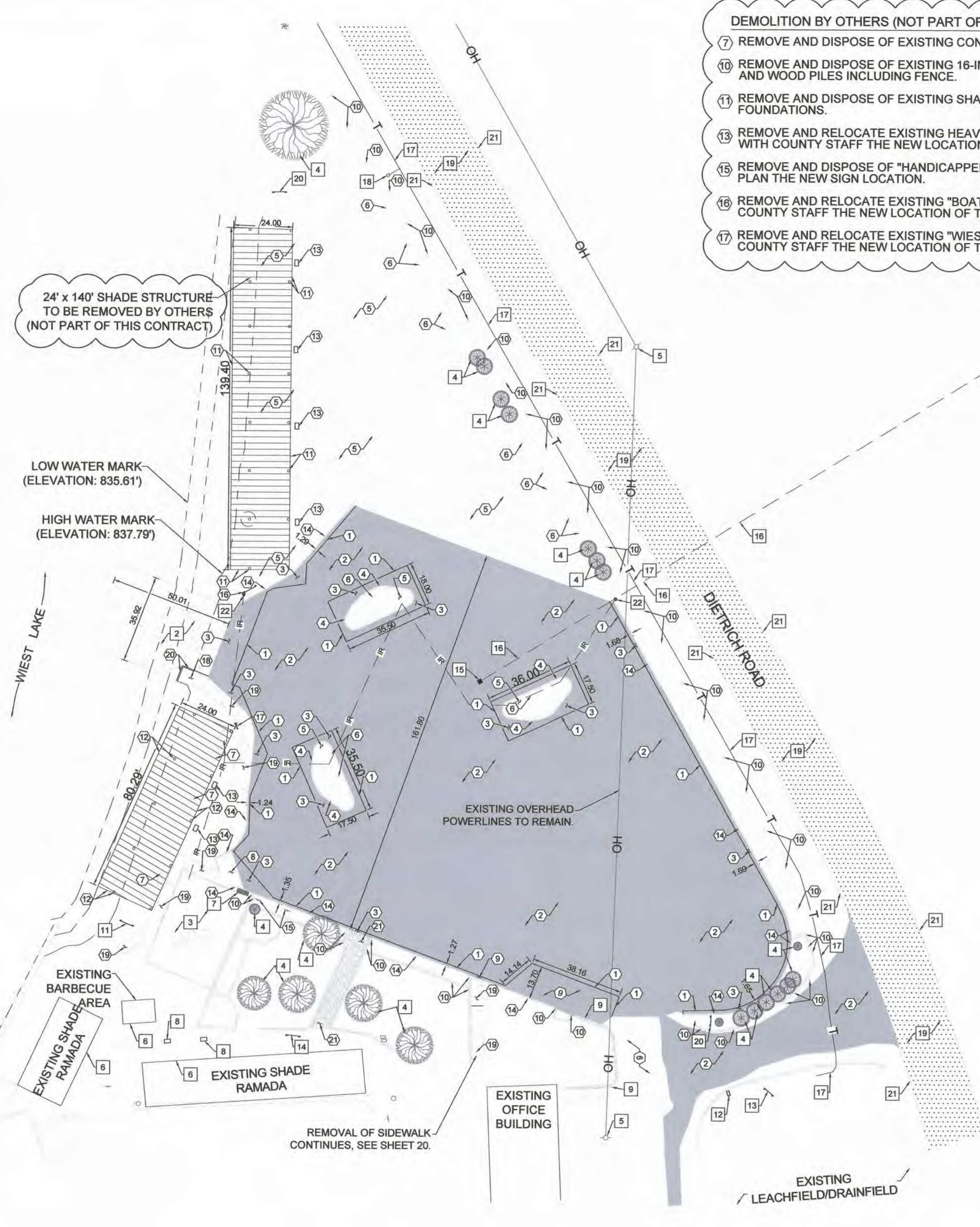
IMPROVEMENTS FOR THE WIEST LAKE BOAT LAUNCHING FACILITY PROJECT

GENERAL NOTES

SHEET 2 OF 26

LEGEND:

-  COLD PLANE EXISTING A.C. PAVEMENT FOR 1-INCH THICKNESS. REMOVE AND DISPOSE OF EXISTING A.C. PAVEMENT MATERIAL.
-  EXISTING CONCRETE BOAT RAMP TO REMAIN.
-  EXISTING A.C. PAVEMENT TO REMAIN.






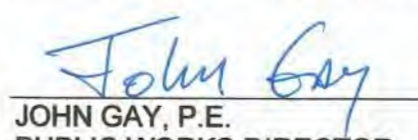
DEMOLITION BY OTHERS (NOT PART OF THIS CONTRACT)

- 7 REMOVE AND DISPOSE OF EXISTING CONCRETE BENCH WITH BACK INCLUDING ANY FOOTINGS
- 10 REMOVE AND DISPOSE OF EXISTING 16-INCH DIAMETER, APPROX. 5 FEET HIGH WOODEN POST, AND WOOD PILES INCLUDING FENCE.
- 11 REMOVE AND DISPOSE OF EXISTING SHADE STRUCTURE, INCLUDING SIXTEEN (16) POSTS AND FOUNDATIONS.
- 13 REMOVE AND RELOCATE EXISTING HEAVY-DUTY STEEL GRILLS AND PERTINENCES. COORDINATE WITH COUNTY STAFF THE NEW LOCATION OF THE EXISTING GRILLS.
- 15 REMOVE AND DISPOSE OF "HANDICAPPED PARKING" SIGN. COORDINATE WITH THE STRIPING PLAN THE NEW SIGN LOCATION.
- 16 REMOVE AND RELOCATE EXISTING "BOATING LAWS ENFORCED" SIGN. COORDINATE WITH COUNTY STAFF THE NEW LOCATION OF THE EXISTING SIGN.
- 17 REMOVE AND RELOCATE EXISTING "WEST LAKE COUNTY PARK" SIGN. COORDINATE WITH COUNTY STAFF THE NEW LOCATION OF THE EXISTING SIGN.


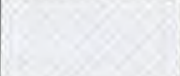
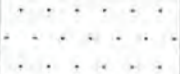


- DEMOLITION KEYNOTES**
- 1 SAWCUT THE EXISTING A.C. PAVEMENT FOR THE FULL DEPTH OF THE A.C. PAVEMENT.
 - 2 COLD PLANE EXISTING A.C. PAVEMENT FOR 1-INCH THICKNESS. REMOVE AND DISPOSE OF EXISTING A.C. PAVEMENT MATERIAL.
 - 3 REMOVE AND DISPOSE OF EXISTING A.C. PAVEMENT AND UNDERLYING MATERIAL TO SUBBASE DESIGN GRADE.
 - 4 REMOVE AND DISPOSE OF EXISTING P.C.C. CURB AND UNDERLYING MATERIAL TO SUBBASE DESIGN GRADE.
 - 5 REMOVE AND DISPOSE OF EXISTING NATIVE MATERIAL TO SUBBASE DESIGN GRADE.
 - 6 REMOVE AND DISPOSE OF EXISTING TREE AND LANDSCAPING AREA. CLEAR AREA OF ANY VEGETATION, ROOTS, AND ORGANIC MATERIAL. CONTRACTOR TO REMOVE AND CAP THE EXISTING IRRIGATION LINES WITHIN SAWCUT AREA.
 - 7 REMOVE AND DISPOSE OF EXISTING CONCRETE BENCH WITH BACK INCLUDING ANY FOOTINGS.
 - 8 REMOVE AND DISPOSE OF EXISTING P.C.C. HANDICAP CURB RAMP AND MATERIAL UNDERLYING P.C.C. HANDICAP CURB RAMP TO DESIGN SUBBASE GRADE.
 - 9 REMOVE AND DISPOSE OF EXISTING DETERIORATED A.C. PAVEMENT AND UNDERLYING MATERIAL TO SUBBASE DESIGN GRADE.
 - 10 REMOVE AND DISPOSE OF EXISTING 16-INCH DIAMETER, APPROX. 5 FEET HIGH WOODEN POST, AND WOOD PILES INCLUDING FENCE.
 - 11 REMOVE AND DISPOSE OF EXISTING SHADE STRUCTURE, INCLUDING SIXTEEN (16) POSTS AND FOUNDATIONS.
 - 12 REMOVE AND DISPOSE OF EXISTING SHADE STRUCTURE, INCLUDING TEN (10) POSTS AND FOUNDATIONS.
 - 13 CONTRACTOR TO REMOVE AND RELOCATE EXISTING HEAVY-DUTY STEEL GRILLS AND PERTINENCES. THE CONTRACTOR SHALL COORDINATE WITH COUNTY STAFF THE NEW LOCATION OF THE EXISTING GRILLS.
 - 14 REMOVE AND DISPOSE OF EXISTING 6-INCH A.C. DIKE AND UNDERLYING MATERIAL TO SUBBASE DESIGN GRADE.
 - 15 REMOVE AND DISPOSE OF "HANDICAPPED PARKING" SIGN. THE CONTRACTOR SHALL COORDINATE WITH THE STRIPING PLAN THE NEW SIGN LOCATION.
 - 16 REMOVE AND RELOCATE EXISTING "BOATING LAWS ENFORCED" SIGN. THE CONTRACTOR SHALL COORDINATE WITH COUNTY STAFF THE NEW LOCATION OF THE EXISTING SIGN.
 - 17 REMOVE AND RELOCATE EXISTING "WEST LAKE COUNTY PARK" SIGN. THE CONTRACTOR SHALL COORDINATE WITH COUNTY STAFF THE NEW LOCATION OF THE EXISTING SIGN.
 - 18 REMOVE AND DISPOSE OF EXISTING P.C.C. WALKWAY INCLUDING REBARS AND UNDERLYING MATERIAL TO SUBBASE ABUTMENT DESIGN GRADE.
 - 19 REMOVE AND DISPOSE OF EXISTING P.C.C. SIDEWALK AND UNDERLYING MATERIAL TO SUBBASE DESIGN GRADE.
 - 20 SAWCUT THE EXISTING P.C.C. WALKWAY INCLUDING REBARS FOR THE FULL DEPTH OF THE P.C.C. WALKWAY.
 - 21 REMOVE AND DISPOSE OF EXISTING WALKWAY PAVERS AND UNDERLYING MATERIAL TO DESIGN SUBBASE GRADE.

- EXISTING FACILITY KEYNOTES**
- 1 EXISTING SIDEWALK TO REMAIN.
 - 2 EXISTING CONCRETE BOAT RAMP TO REMAIN.
 - 3 EXISTING PLAYGROUND TO REMAIN.
 - 4 EXISTING BUSHES OR TREES TO REMAIN.
 - 5 EXISTING POWER POLE TO REMAIN.
 - 6 EXISTING SHADE RAMADA TO REMAIN.
 - 7 EXISTING RON PRATE PLAYGROUND CREDIT SIGN TO REMAIN.
 - 8 EXISTING HEAVY-DUTY STEEL GRILL TO REMAIN.
 - 9 DECORATIVE ROCK WALL TO REMAIN.
 - 10 N/A
 - 11 EXISTING "NO SWIMMING OR WADING" SIGN TO REMAIN.
 - 12 EXISTING MAILBOX TO REMAIN.
 - 13 EXISTING "WEST LAKE PARK RULES" SIGN TO REMAIN.
 - 14 EXISTING "NO SWIMMING NO LIFEGUARD" SIGN TO REMAIN.
 - 15 EXISTING STORMWATER CATCH INLET TO REMAIN.
 - 16 EXISTING STORMDRAIN PIPELINE TO REMAIN.
 - 17 EXISTING AT&T PIPELINE TO REMAIN.
 - 18 EXISTING AT&T UTILITY BOX TO REMAIN.
 - 19 EXISTING A.C. PAVEMENT TO REMAIN.
 - 20 EXISTING SIGN TO REMAIN.
 - 21 EXISTING EDGE OF PAVEMENT.
 - 22 EXISTING HOSE BIB TO REMAIN (PROTECT IN PLACE).

SCALE:
 11"x17" Sheet 1" = 60'
 24"x36" Sheet 1" = 30'

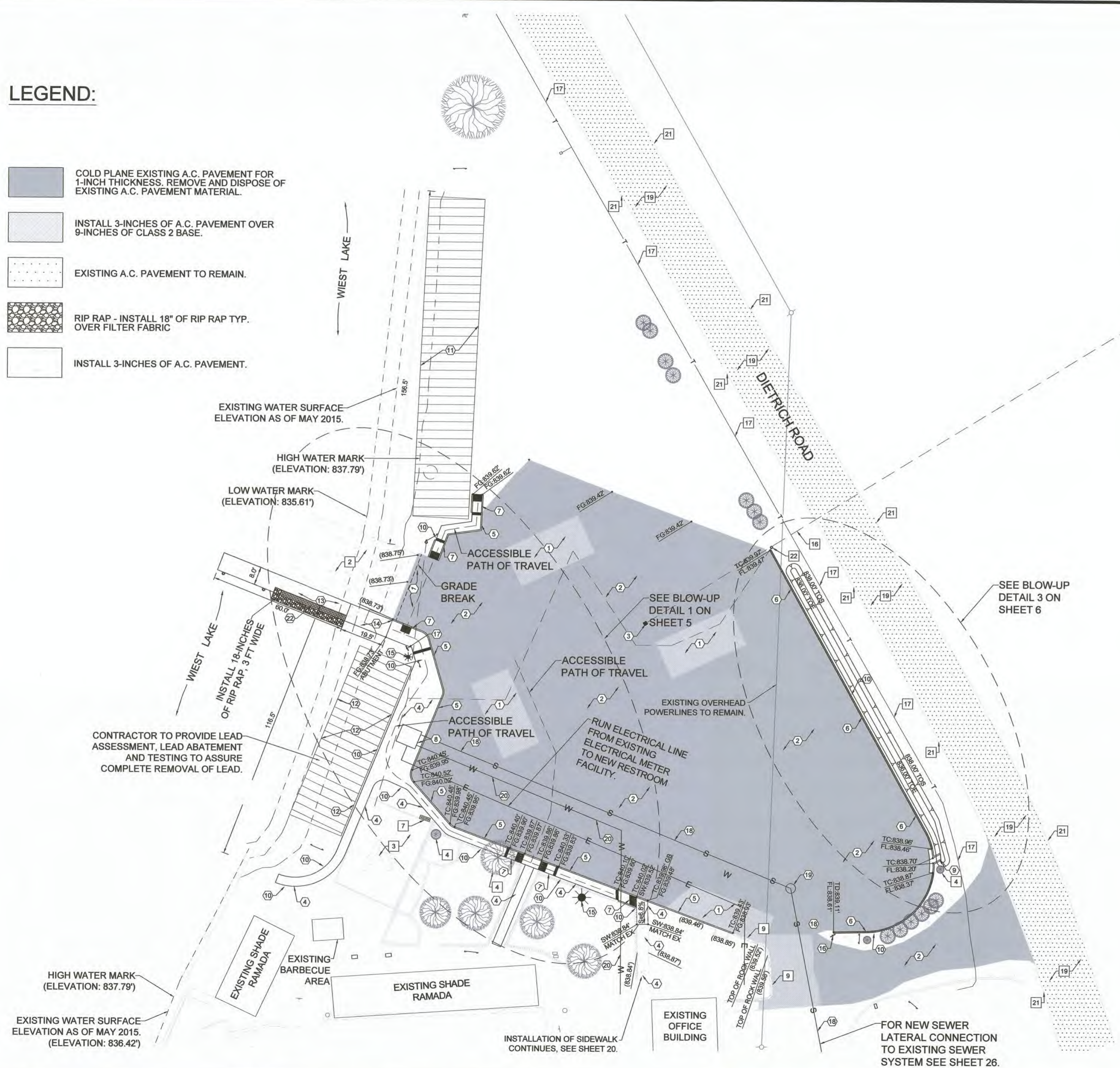
REVISION	DATE	COMMENTS	PREPARED UNDER THE DIRECT SUPERVISION OF:		Dynamic CONSULTING ENGINEERS		PUBLIC WORKS DEPARTMENT		APPROVED BY THE COUNTY OF IMPERIAL:		DATE	COMMUNITY AND ECONOMIC DEVELOPMENT	EXISTING CONDITIONS & DEMOLITION PLAN
				69121				62028	6/2/2023	6/2/2023	DB	IMPROVEMENTS FOR THE WEST LAKE BOAT LAUNCHING FACILITY PROJECT	SHEET 3 OF 26
			CARLOS BELTRAN, P.E.	R.C.E. No.	CIVIL ENGINEERING - LAND SURVEYING - CONSTRUCTION MANAGEMENT	COUNTY OF IMPERIAL	JOHN GAY, P.E.	R.C.E. No.	09/30/23	AS SHOWN			
			DATE	REG. EXP.	2415 IMPERIAL BUSINESS PARK DRIVE, SUITE B., IMPERIAL, CA. 92251	COUNTY OF IMPERIAL	6/6/23	REG. EXP.	CB				

LEGEND:

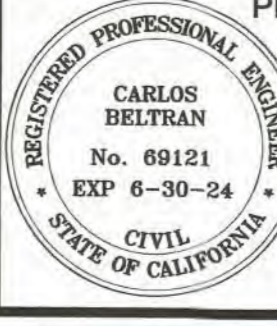

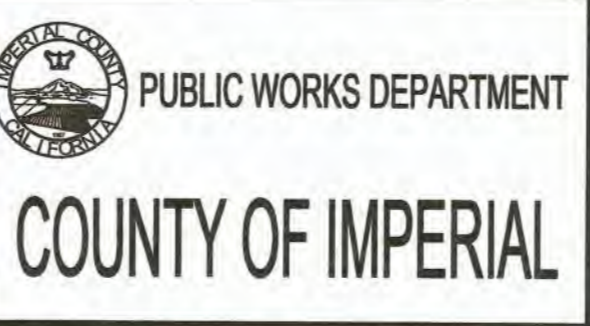

-  COLD PLANE EXISTING A.C. PAVEMENT FOR 1-INCH THICKNESS. REMOVE AND DISPOSE OF EXISTING A.C. PAVEMENT MATERIAL.
-  INSTALL 3-INCHES OF A.C. PAVEMENT OVER 9-INCHES OF CLASS 2 BASE.
-  EXISTING A.C. PAVEMENT TO REMAIN.
-  RIP RAP - INSTALL 18" OF RIP RAP TYP. OVER FILTER FABRIC
-  INSTALL 3-INCHES OF A.C. PAVEMENT.

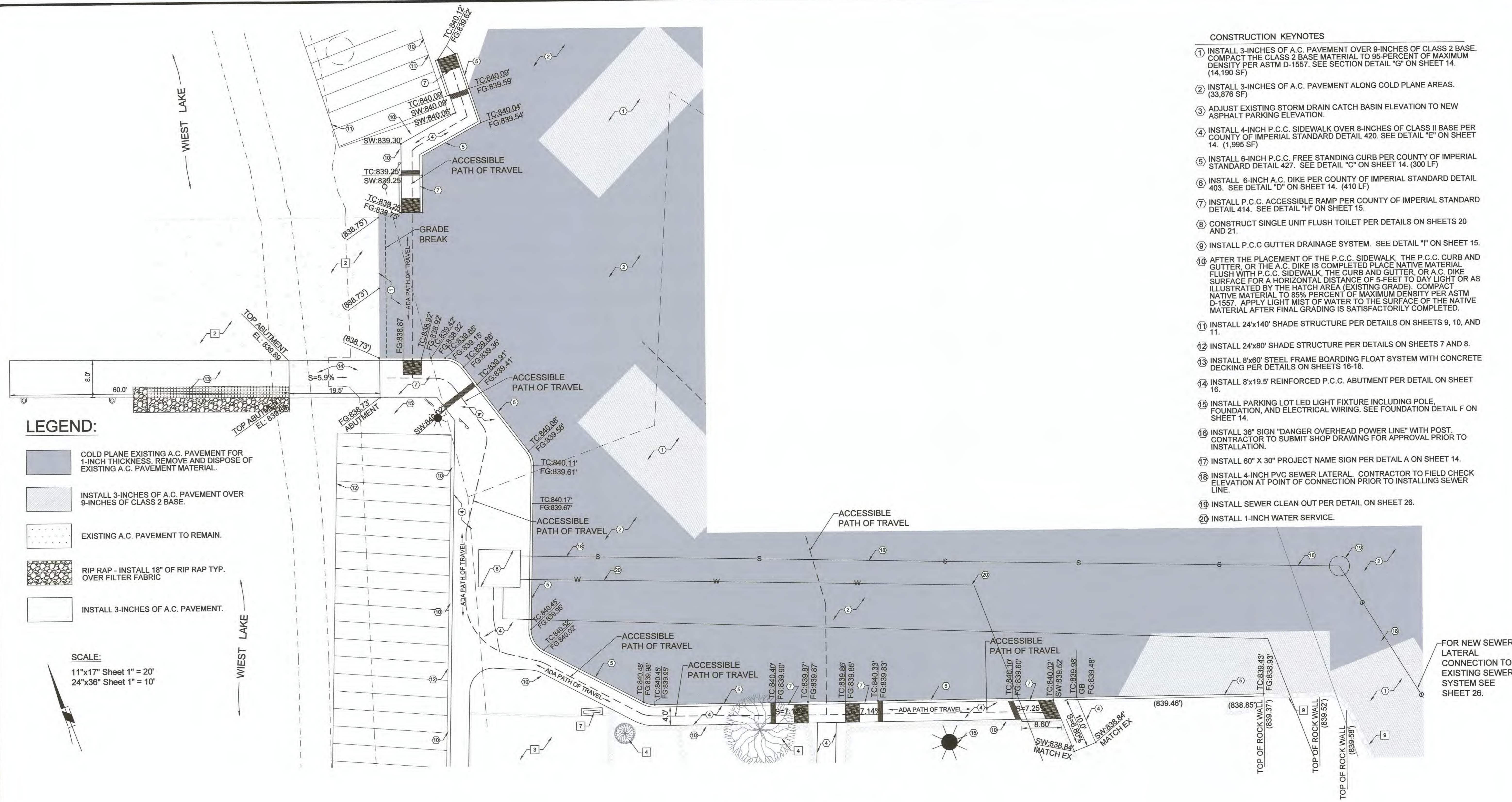
CONSTRUCTION KEYNOTES

- ① INSTALL 3-INCHES OF A.C. PAVEMENT OVER 9-INCHES OF CLASS 2 BASE. COMPACT THE CLASS 2 BASE MATERIAL TO 95-PERCENT OF MAXIMUM DENSITY PER ASTM D-1557. SEE SECTION DETAIL "G" ON SHEET 14. (14,190 SF)
- ② INSTALL 3-INCHES OF A.C. PAVEMENT ALONG COLD PLANE AREAS. (33,876 SF)
- ③ ADJUST EXISTING STORM DRAIN CATCH BASIN ELEVATION TO NEW ASPHALT PARKING ELEVATION.
- ④ INSTALL 4-INCH P.C.C. SIDEWALK OVER 8-INCHES OF CLASS II BASE PER COUNTY OF IMPERIAL STANDARD DETAIL 420. SEE DETAIL "E" ON SHEET 14. (1,995 SF)
- ⑤ INSTALL 6-INCH P.C.C. FREE STANDING CURB PER COUNTY OF IMPERIAL STANDARD DETAIL 427. SEE DETAIL "C" ON SHEET 14. (300 LF)
- ⑥ INSTALL 6-INCH A.C. DIKE PER COUNTY OF IMPERIAL STANDARD DETAIL 403. SEE DETAIL "D" ON SHEET 14. (410 LF)
- ⑦ INSTALL P.C.C. ACCESSIBLE RAMP PER COUNTY OF IMPERIAL STANDARD DETAIL 414. SEE DETAIL "H" ON SHEET 15.
- ⑧ CONSTRUCT SINGLE UNIT FLUSH TOILET PER DETAILS ON SHEETS 20 AND 21.
- ⑨ INSTALL P.C.C. GUTTER DRAINAGE SYSTEM. SEE DETAIL "I" ON SHEET 15.
- ⑩ AFTER THE PLACEMENT OF THE P.C.C. SIDEWALK, THE P.C.C. CURB AND GUTTER, OR THE A.C. DIKE IS COMPLETED PLACE NATIVE MATERIAL FLUSH WITH P.C.C. SIDEWALK, THE CURB AND GUTTER, OR A.C. DIKE SURFACE FOR A HORIZONTAL DISTANCE OF 5-FEET TO DAY LIGHT OR AS ILLUSTRATED BY THE HATCH AREA (EXISTING GRADE). COMPACT NATIVE MATERIAL TO 85% PERCENT OF MAXIMUM DENSITY PER ASTM D-1557. APPLY LIGHT MIST OF WATER TO THE SURFACE OF THE NATIVE MATERIAL AFTER FINAL GRADING IS SATISFACTORILY COMPLETED.
- ⑪ INSTALL 24'x140' SHADE STRUCTURE PER DETAILS ON SHEETS 9, 10, AND 11.
- ⑫ INSTALL 24'x80' SHADE STRUCTURE PER DETAILS ON SHEETS 7 AND 8.
- ⑬ INSTALL 8'x60' STEEL FRAME BOARDING FLOAT SYSTEM WITH CONCRETE DECKING PER DETAILS ON SHEET 16-18.
- ⑭ INSTALL 8'x19.5' REINFORCED P.C.C. ABUTMENT PER DETAIL ON SHEET 16.
- ⑮ INSTALL PARKING LOT LED LIGHT FIXTURE INCLUDING POLE, FOUNDATION, AND ELECTRICAL WIRING. SEE FOUNDATION DETAIL F ON SHEET 14.
- ⑯ INSTALL 36" SIGN "DANGER OVERHEAD POWER LINE" WITH POST. CONTRACTOR TO SUBMIT SHOP DRAWING FOR APPROVAL PRIOR TO INSTALLATION.
- ⑰ INSTALL 60" X 30" PROJECT NAME SIGN PER DETAIL A ON SHEET 14.
- ⑱ INSTALL 4-INCH PVC SEWER LATERAL. CONTRACTOR TO FIELD CHECK ELEVATION AT POINT OF CONNECTION PRIOR TO INSTALLING SEWER LINE.
- ⑲ INSTALL SEWER CLEAN OUT PER DETAIL ON SHEET 26.
- ⑳ INSTALL 1-INCH WATER SERVICE.
- ㉑ INSTALL 12 INCH THICK CLOSED CELL ARTICULATED MAT OVER 12 INCHES OF DRAIN ROCK. (30 FT IN LENGTH BY 2.5 FT WIDE AREA)



SCALE:
 11"x17" Sheet 1" = 50'
 24"x36" Sheet 1" = 25'

REVISION	DATE	COMMENTS	PREPARED UNDER THE DIRECT SUPERVISION OF:  CARLOS BELTRAN, P.E. No. 69121 EXP 6-30-24 CIVIL STATE OF CALIFORNIA	69121 R.C.E. No. 06/30/24 REG. EXP.	 Dynamic CONSULTING ENGINEERS CIVIL ENGINEERING - LAND SURVEYING - CONSTRUCTION MANAGEMENT 2415 IMPERIAL BUSINESS PARK DRIVE, SUITE B., IMPERIAL CA. 92251 TEL. (760) 545-0162 FAX (760) 545-0163	 PUBLIC WORKS DEPARTMENT COUNTY OF IMPERIAL	APPROVED BY THE COUNTY OF IMPERIAL:  JOHN GAY, P.E. No. 62028 EXP 9-30-23 CIVIL STATE OF CALIFORNIA	JOHN GAY JOHN GAY, P.E. PUBLIC WORKS DIRECTOR 6/6/23 DATE	DATE 6/2/2023 DRAWN DB SCALE AS SHOWN CHECKED CB	COMMUNITY AND ECONOMIC DEVELOPMENT IMPROVEMENTS FOR THE WEST LAKE BOAT LAUNCHING FACILITY PROJECT	GRADING AND IMPROVEMENT PLAN SHEET 4 OF 26
-----------------	-------------	-----------------	--	--	--	---	--	---	---	--	--



- CONSTRUCTION KEYNOTES**
- ① INSTALL 3-INCHES OF A.C. PAVEMENT OVER 9-INCHES OF CLASS 2 BASE. COMPACT THE CLASS 2 BASE MATERIAL TO 95-PERCENT OF MAXIMUM DENSITY PER ASTM D-1557. SEE SECTION DETAIL "G" ON SHEET 14. (14,190 SF)
 - ② INSTALL 3-INCHES OF A.C. PAVEMENT ALONG COLD PLANE AREAS. (33,876 SF)
 - ③ ADJUST EXISTING STORM DRAIN CATCH BASIN ELEVATION TO NEW ASPHALT PARKING ELEVATION.
 - ④ INSTALL 4-INCH P.C.C. SIDEWALK OVER 8-INCHES OF CLASS II BASE PER COUNTY OF IMPERIAL STANDARD DETAIL 420. SEE DETAIL "E" ON SHEET 14. (1,995 SF)
 - ⑤ INSTALL 6-INCH P.C.C. FREE STANDING CURB PER COUNTY OF IMPERIAL STANDARD DETAIL 427. SEE DETAIL "C" ON SHEET 14. (300 LF)
 - ⑥ INSTALL 6-INCH A.C. DIKE PER COUNTY OF IMPERIAL STANDARD DETAIL 403. SEE DETAIL "D" ON SHEET 14. (410 LF)
 - ⑦ INSTALL P.C.C. ACCESSIBLE RAMP PER COUNTY OF IMPERIAL STANDARD DETAIL 414. SEE DETAIL "H" ON SHEET 15.
 - ⑧ CONSTRUCT SINGLE UNIT FLUSH TOILET PER DETAILS ON SHEETS 20 AND 21.
 - ⑨ INSTALL P.C.C. GUTTER DRAINAGE SYSTEM. SEE DETAIL "I" ON SHEET 15.
 - ⑩ AFTER THE PLACEMENT OF THE P.C.C. SIDEWALK, THE P.C.C. CURB AND GUTTER, OR THE A.C. DIKE IS COMPLETED PLACE NATIVE MATERIAL FLUSH WITH P.C.C. SIDEWALK, THE CURB AND GUTTER, OR A.C. DIKE SURFACE FOR A HORIZONTAL DISTANCE OF 5-FEET TO DAY LIGHT OR AS ILLUSTRATED BY THE HATCH AREA (EXISTING GRADE). COMPACT NATIVE MATERIAL TO 85% PERCENT OF MAXIMUM DENSITY PER ASTM D-1557. APPLY LIGHT MIST OF WATER TO THE SURFACE OF THE NATIVE MATERIAL AFTER FINAL GRADING IS SATISFACTORY COMPLETED.
 - ⑪ INSTALL 24"x140" SHADE STRUCTURE PER DETAILS ON SHEETS 9, 10, AND 11.
 - ⑫ INSTALL 24"x80" SHADE STRUCTURE PER DETAILS ON SHEETS 7 AND 8.
 - ⑬ INSTALL 8"x60" STEEL FRAME BOARDING FLOAT SYSTEM WITH CONCRETE DECKING PER DETAILS ON SHEETS 16-18.
 - ⑭ INSTALL 8"x19.5" REINFORCED P.C.C. ABUTMENT PER DETAIL ON SHEET 16.
 - ⑮ INSTALL PARKING LOT LED LIGHT FIXTURE INCLUDING POLE, FOUNDATION, AND ELECTRICAL WIRING. SEE FOUNDATION DETAIL F ON SHEET 14.
 - ⑯ INSTALL 36" SIGN "DANGER OVERHEAD POWER LINE" WITH POST. CONTRACTOR TO SUBMIT SHOP DRAWING FOR APPROVAL PRIOR TO INSTALLATION.
 - ⑰ INSTALL 60" X 30" PROJECT NAME SIGN PER DETAIL A ON SHEET 14.
 - ⑱ INSTALL 4-INCH PVC SEWER LATERAL. CONTRACTOR TO FIELD CHECK ELEVATION AT POINT OF CONNECTION PRIOR TO INSTALLING SEWER LINE.
 - ⑲ INSTALL SEWER CLEAN OUT PER DETAIL ON SHEET 26.
 - ⑳ INSTALL 1-INCH WATER SERVICE.

LEGEND:

- COLD PLANE EXISTING A.C. PAVEMENT FOR 1-INCH THICKNESS. REMOVE AND DISPOSE OF EXISTING A.C. PAVEMENT MATERIAL.
- INSTALL 3-INCHES OF A.C. PAVEMENT OVER 9-INCHES OF CLASS 2 BASE.
- EXISTING A.C. PAVEMENT TO REMAIN.
- RIP RAP - INSTALL 18" OF RIP RAP TYP. OVER FILTER FABRIC
- INSTALL 3-INCHES OF A.C. PAVEMENT.

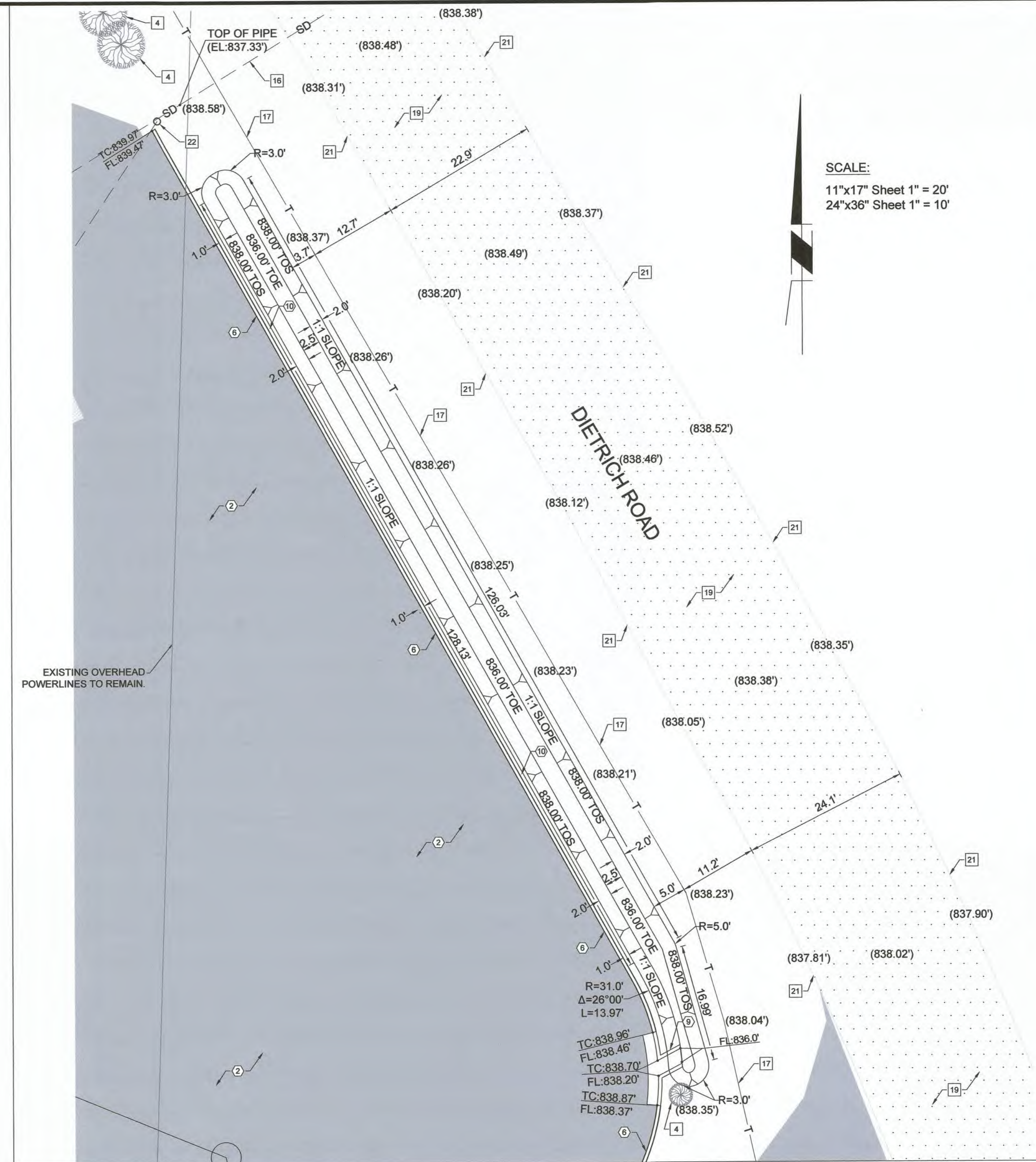
SCALE:
 11"x17" Sheet 1" = 20'
 24"x36" Sheet 1" = 10'

BLOW-UP DETAIL 1



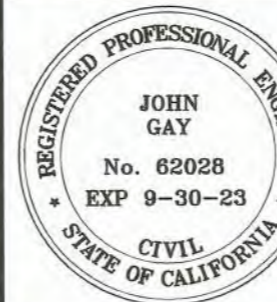

REVISION	DATE	COMMENTS	PREPARED UNDER THE DIRECT SUPERVISION OF:	APPROVED BY THE COUNTY OF IMPERIAL:	DATE	COMMUNITY AND ECONOMIC DEVELOPMENT	BLOW-UP DETAILS
			 CARLOS BELTRAN, P.E. No. 69121 EXP 6-30-24 DATE: 6/2/23	 JOHN GAY, P.E. No. 62028 EXP 9-30-23 DATE: 6/6/23	6/2/2023	IMPROVEMENTS FOR THE WIEST LAKE BOAT LAUNCHING FACILITY PROJECT	SHEET 5 OF 26
			Dynamic CONSULTING ENGINEERS CIVIL ENGINEERING - LAND SURVEYING - CONSTRUCTION MANAGEMENT 2415 IMPERIAL BUSINESS PARK DRIVE, SUITE B., IMPERIAL CA. 92251 TEL. (760) 545-0162 FAX (760) 545-0163	PUBLIC WORKS DEPARTMENT COUNTY OF IMPERIAL	62028 R.C.E. No. 09/30/23 REG. EXP.		

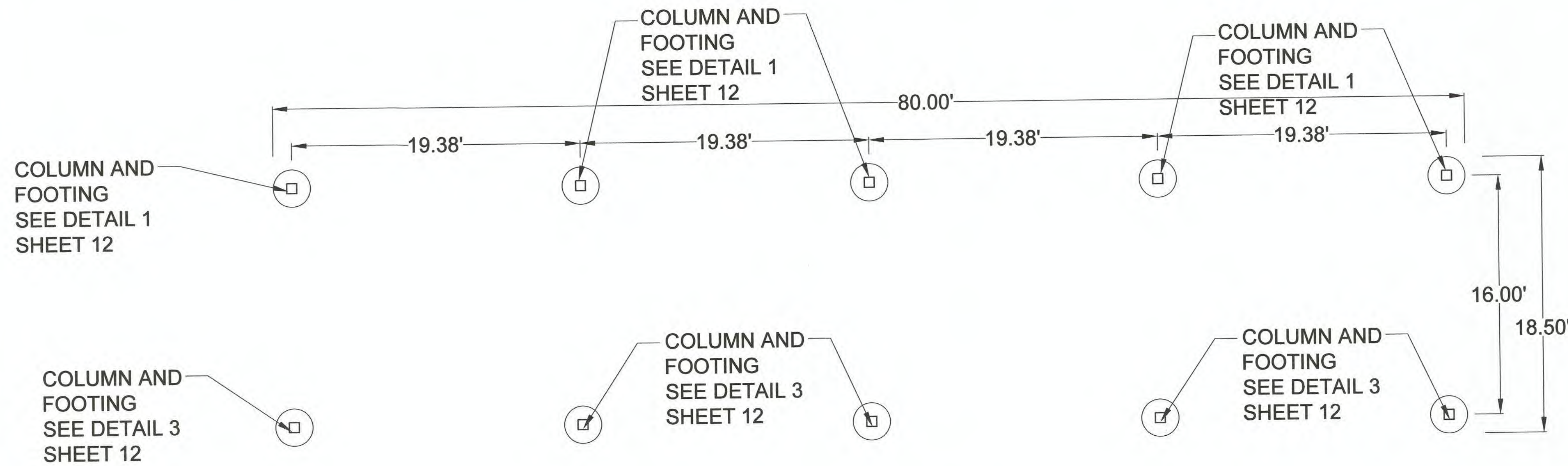
CONSTRUCTION KEYNOTES

- 1 INSTALL 3-INCHES OF A.C. PAVEMENT OVER 9-INCHES OF CLASS 2 BASE. COMPACT THE CLASS 2 BASE MATERIAL TO 95-PERCENT OF MAXIMUM DENSITY PER ASTM D-1557. SEE SECTION DETAIL "G" ON SHEET 14. (14,190 SF)
- 2 INSTALL 3-INCHES OF A.C. PAVEMENT ALONG COLD PLANE AREAS. (33,876 SF)
- 3 ADJUST EXISTING STORM DRAIN CATCH BASIN ELEVATION TO NEW ASPHALT PARKING ELEVATION.
- 4 INSTALL 4-INCH P.C.C. SIDEWALK OVER 8-INCHES OF CLASS II BASE PER COUNTY OF IMPERIAL STANDARD DETAIL 420. SEE DETAIL "E" ON SHEET 14. (1,995 SF)
- 5 INSTALL 6-INCH P.C.C. FREE STANDING CURB PER COUNTY OF IMPERIAL STANDARD DETAIL 427. SEE DETAIL "C" ON SHEET 14. (300 LF)
- 6 INSTALL 6-INCH A.C. DIKE PER COUNTY OF IMPERIAL STANDARD DETAIL 403. SEE DETAIL "D" ON SHEET 14. (410 LF)
- 7 INSTALL P.C.C. ACCESSIBLE RAMP PER COUNTY OF IMPERIAL STANDARD DETAIL 414. SEE DETAIL "H" ON SHEET 15.
- 8 CONSTRUCT SINGLE UNIT FLUSH TOILET PER DETAILS ON SHEETS 20 AND 21.
- 9 INSTALL P.C.C. GUTTER DRAINAGE SYSTEM. SEE DETAIL "I" ON SHEET 15.
- 10 AFTER THE PLACEMENT OF THE P.C.C. SIDEWALK, THE P.C.C. CURB AND GUTTER, OR THE A.C. DIKE IS COMPLETED PLACE NATIVE MATERIAL FLUSH WITH P.C.C. SIDEWALK, THE CURB AND GUTTER, OR A.C. DIKE SURFACE FOR A HORIZONTAL DISTANCE OF 5-FEET TO DAY LIGHT OR AS ILLUSTRATED BY THE HATCH AREA (EXISTING GRADE). COMPACT NATIVE MATERIAL TO 85% PERCENT OF MAXIMUM DENSITY PER ASTM D-1557. APPLY LIGHT MIST OF WATER TO THE SURFACE OF THE NATIVE MATERIAL AFTER FINAL GRADING IS SATISFACTORILY COMPLETED.
- 11 INSTALL 24'x140' SHADE STRUCTURE PER DETAILS ON SHEETS 9, 10, AND 11.
- 12 INSTALL 24'x80' SHADE STRUCTURE PER DETAILS ON SHEETS 7 AND 8.
- 13 INSTALL 8'x50' STEEL FRAME BOARDING FLOAT SYSTEM WITH CONCRETE DECKING PER DETAILS ON SHEETS 16-18.
- 14 INSTALL 8'x19.5' REINFORCED P.C.C. ABUTMENT PER DETAIL ON SHEET 16.
- 15 INSTALL PARKING LOT LED LIGHT FIXTURE INCLUDING POLE, FOUNDATION, AND ELECTRICAL WIRING. SEE FOUNDATION DETAIL F ON SHEET 14.
- 16 INSTALL 36" SIGN "DANGER OVERHEAD POWER LINE" WITH POST. CONTRACTOR TO SUBMIT SHOP DRAWING FOR APPROVAL PRIOR TO INSTALLATION.
- 17 INSTALL 60" X 30" PROJECT NAME SIGN PER DETAIL A ON SHEET 14.
- 18 INSTALL 4-INCH PVC SEWER LATERAL. CONTRACTOR TO FIELD CHECK ELEVATION AT POINT OF CONNECTION PRIOR TO INSTALLING SEWER LINE.
- 19 INSTALL SEWER CLEAN OUT PER DETAIL ON SHEET 26.
- 20 INSTALL 1-INCH WATER SERVICE.



BLOW-UP DETAIL 3

REVISION	DATE	COMMENTS	PREPARED UNDER THE DIRECT SUPERVISION OF:		PUBLIC WORKS DEPARTMENT	APPROVED BY THE COUNTY OF IMPERIAL:	DATE	COMMUNITY AND ECONOMIC DEVELOPMENT	BLOW-UP DETAILS
				 CARLOS BELTRAN, P.E. DATE: 6/2/23		 JOHN GAY, P.E. PUBLIC WORKS DIRECTOR DATE: 6/6/23	6/2/2023	SCALE: AS SHOWN CHECKED: CB	IMPROVEMENTS FOR THE WIEST LAKE BOAT LAUNCHING FACILITY PROJECT
			69121	R.C.E. No.		62028			SHEET 6 OF 26
			06/30/24	REG. EXP.	COUNTY OF IMPERIAL	09/30/23			
			CIVIL ENGINEERING - LAND SURVEYING - CONSTRUCTION MANAGEMENT 2415 IMPERIAL BUSINESS PARK DRIVE, SUITE B., IMPERIAL, CA. 92251 TEL. (760) 545-0162 FAX (760) 545-0163			REG. EXP.			



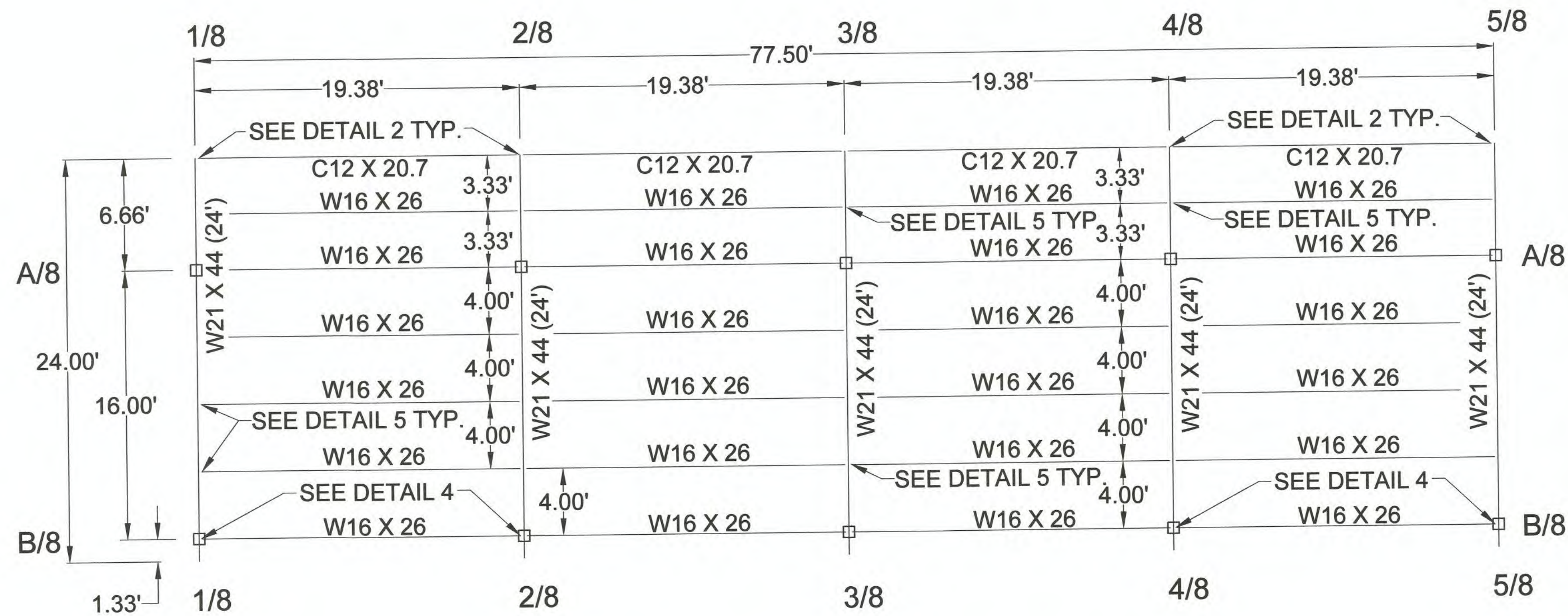
80 FT BY 24 FT SHADE STRUCTURE
COLUMN AND FOUNDATION PLAN

NOTE:
DETAILS 1, 2, 3, 4 AND 5
FOR THIS SHEET ARE
FOUND ON SHEET 12.

DESIGN CRITERIA:

WIND LOADING:
RISK CATEGORY: 1
EXPOSURE: C
BASIC WIND SPEED: 100 MPH
(ASCE 7-10) FIGURE 26.5-1C

SEISMIC LOADING:
RISK CATEGORY: 1
SITE CLASSIFICATION: D
PEAK GROUND ACCELERATION (PGA): 1.5
Fa: 1.0
S_{ds}: 1.0



NOTE:
ROOF DECK SHOULD EXTEND 15
INCHES (OVERHANG) FROM CENTER OF
COLUMNS EXTENDING EAST

80 FT BY 24 FT SHADE STRUCTURE
FRAMING PLAN

NOTE:
DETAILS 1, 2, 3, 4 AND 5
FOR THIS SHEET ARE
FOUND ON SHEET 12.

CROSS SECTIONS ARE
FOUND ON SHEET 8

REVISION	DATE	COMMENTS

PREPARED UNDER THE DIRECT SUPERVISION OF:

CARLOS BELTRAN
No. 69121
EXP. 6-30-24
CIVIL
STATE OF CALIFORNIA

Carlos Beltran
CARLOS BELTRAN, P.E.
DATE: 6/2/23

69121
R.C.E. No.
06/30/24
REG. EXP.

Dynamic CONSULTING ENGINEERS

CIVIL ENGINEERING - LAND SURVEYING - CONSTRUCTION MANAGEMENT
2415 IMPERIAL BUSINESS PARK DRIVE, SUITE B.,
IMPERIAL CA. 92251
TEL. (760) 545-0162 FAX (760) 545-0163

PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL

APPROVED BY THE COUNTY OF IMPERIAL:

JOHN GAY
No. 65028
EXP. 9-30-23
CIVIL
STATE OF CALIFORNIA

John Gay
JOHN GAY, P.E.
PUBLIC WORKS DIRECTOR
DATE: 6/6/23

62028
R.C.E. No.
09/30/23
REG. EXP.

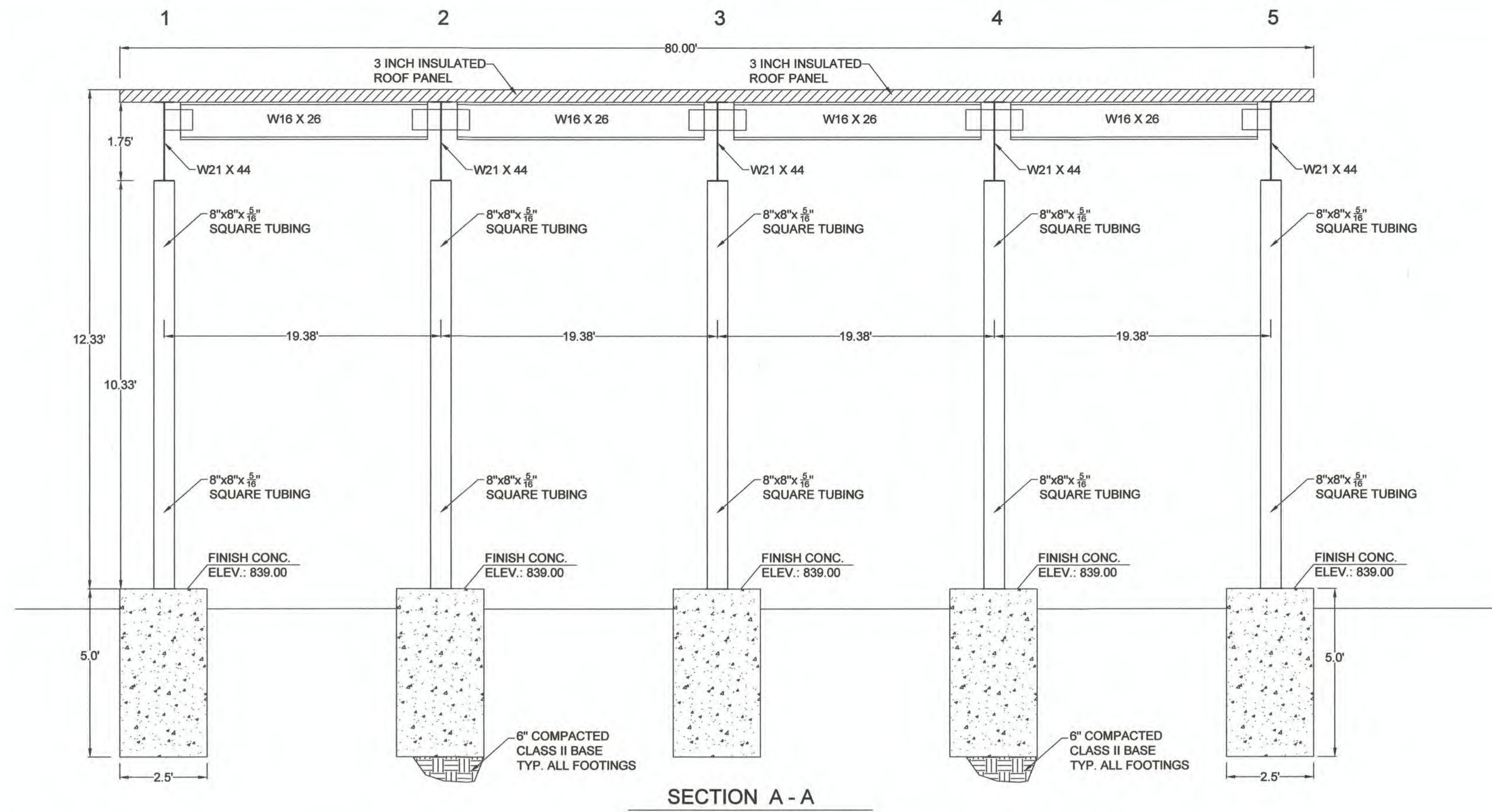
DATE	8/2/2023
DRAWN	DB
SCALE	AS SHOWN
CHECKED	CB

COMMUNITY AND ECONOMIC DEVELOPMENT

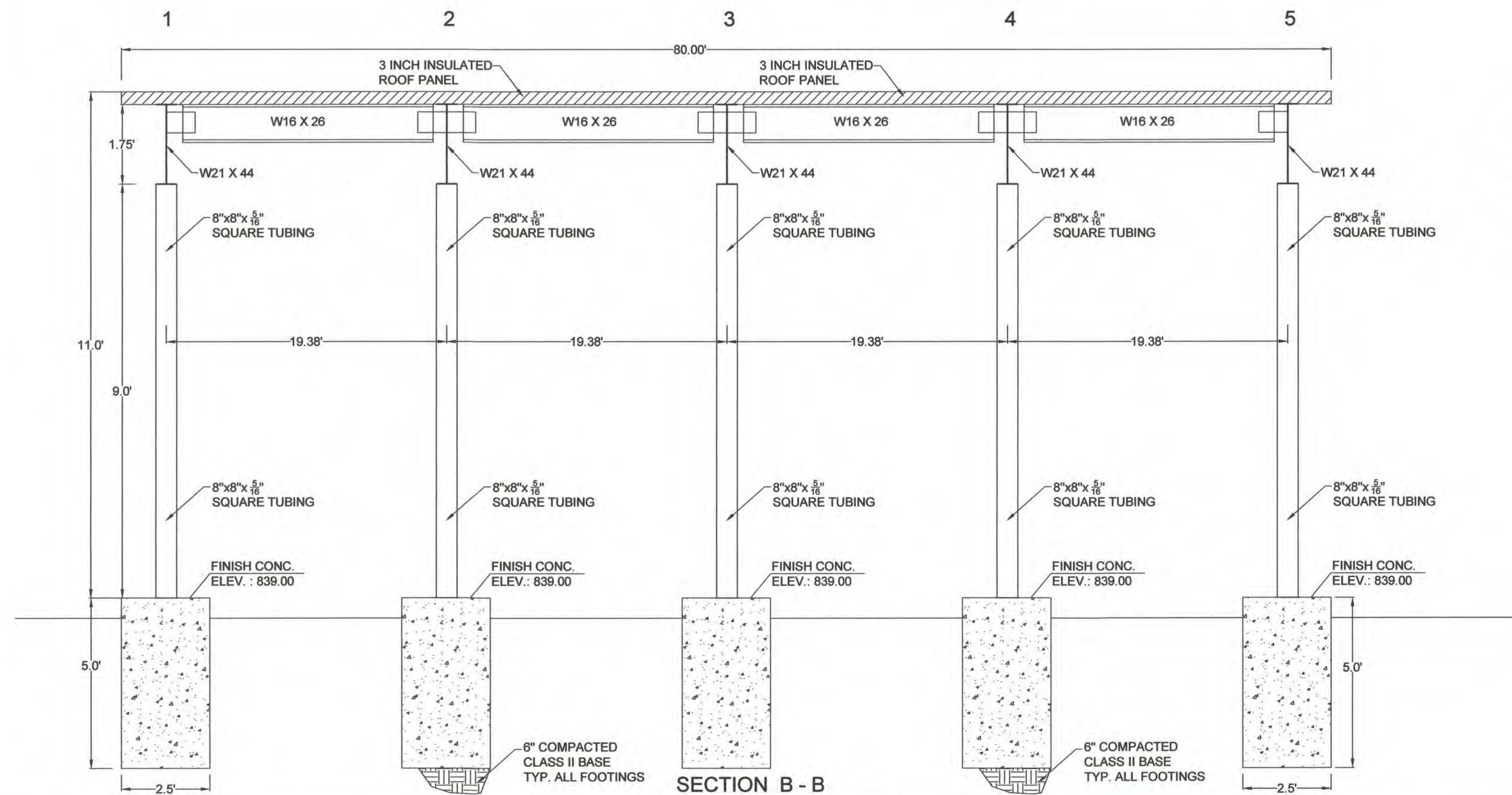
IMPROVEMENTS FOR THE WEST LAKE BOAT LAUNCHING FACILITY PROJECT

24' x 80' SHADE STRUCTURE

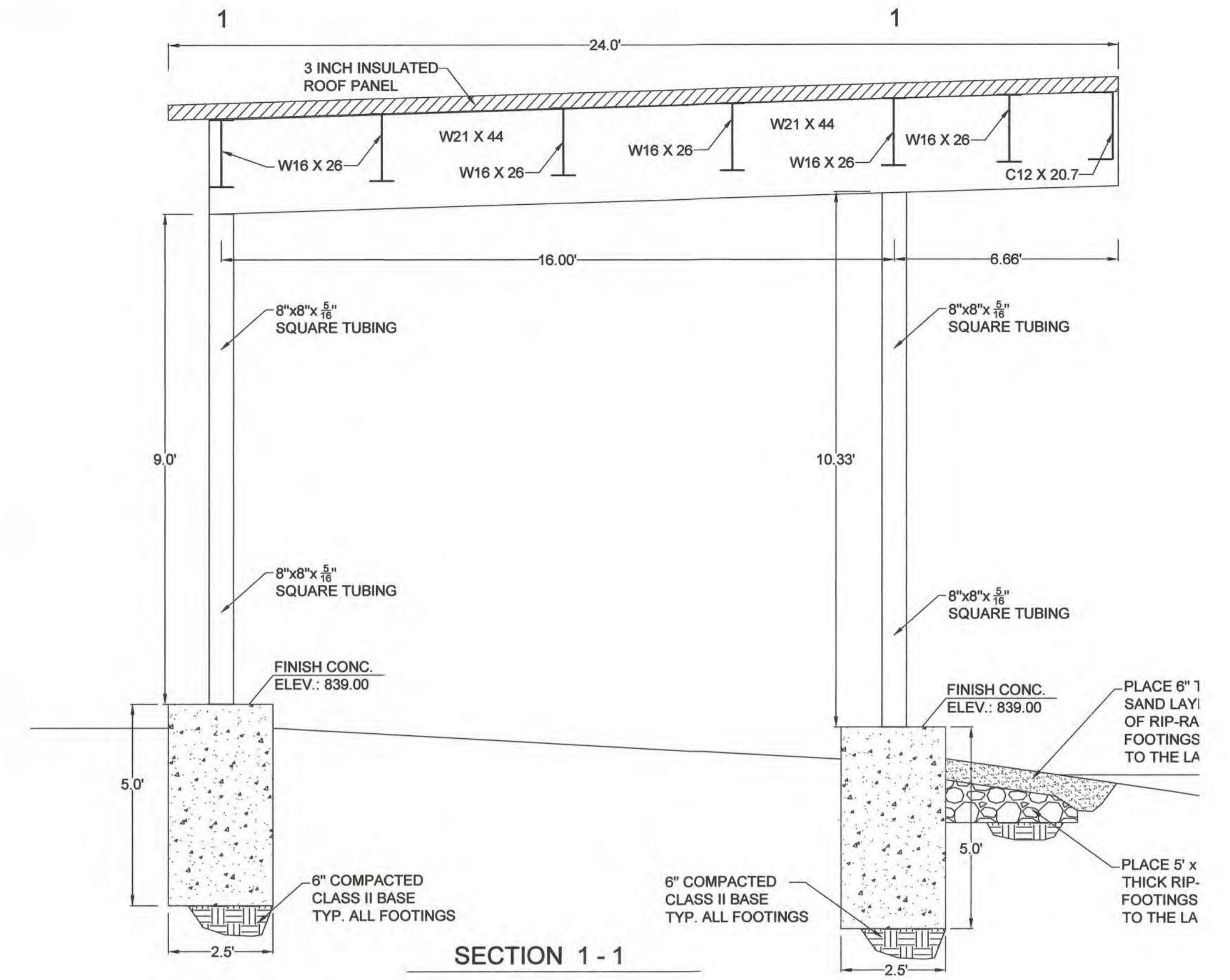
SHEET 7 OF 26



SECTION A - A



SECTION B - B



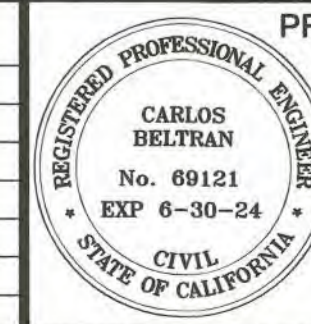
SECTION 1 - 1

NOTE:
DETAILS 1, 2, 3, 4 AND 5
FOR THIS SHEET ARE
FOUND ON SHEET 12.

GENERAL NOTES:

1. CONCRETE SHALL BE 4,500 PSI TYPE V PORTLAND CEMENT WITH A MAXIMUM WATER/CEMENT RATIO OF 0.45 (BY WEIGHT).
2. CONCRETE POUR SHALL BE MONOLITHIC.
3. REINFORCING BARS SHALL BE GRADE 40 ($f_y = 40,000$ psi)
4. ALL REINFORCING BARS SHALL HAVE AT MINIMUM 3" COVER.
5. SPECIAL INSPECTIONS SHALL BE PROVIDED FOR THE CONCRETE CONSTRUCTION PER CALIFORNIA BUILDING CODE SECTION 1704.4 AND TABLE 1704.4 REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION.

REVISION	DATE	COMMENTS

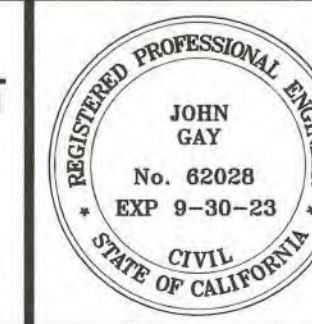


PREPARED UNDER THE DIRECT SUPERVISION OF:

Dynamic CONSULTING ENGINEERS
 CARLOS BELTRAN, P.E.
 No. 69121
 EXP. 6-30-24
 DATE: 5/2/23

Dynamic CONSULTING ENGINEERS
 CIVIL ENGINEERING - LAND SURVEYING - CONSTRUCTION MANAGEMENT
 2415 IMPERIAL BUSINESS PARK DRIVE, SUITE B.,
 IMPERIAL, CA. 92251
 TEL. (760) 545-0182 FAX (780) 545-0163

PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL



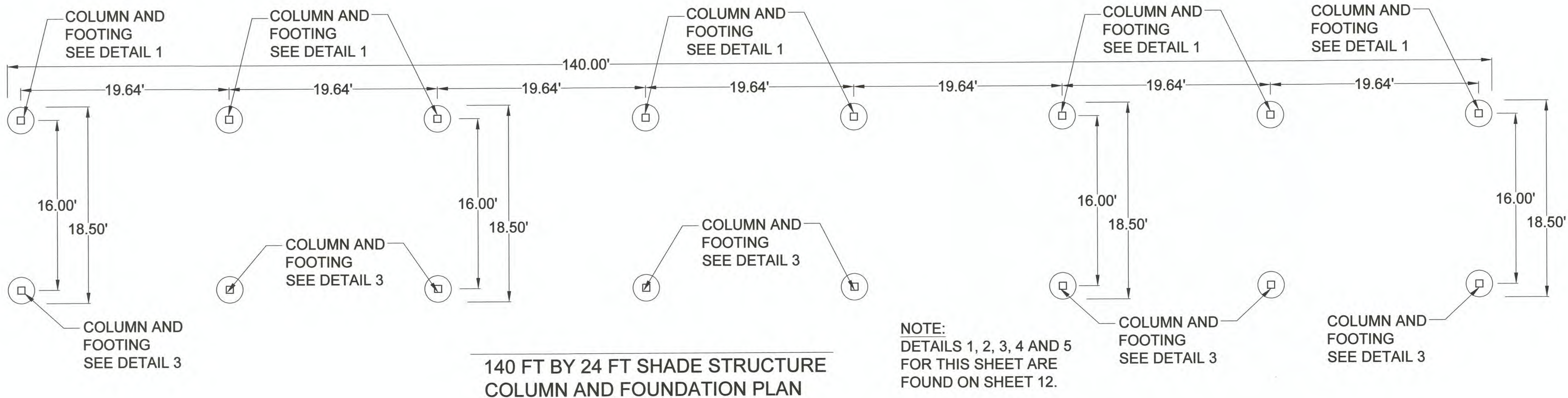
APPROVED BY THE COUNTY OF IMPERIAL:

John Gay
 JOHN GAY, P.E.
 PUBLIC WORKS DIRECTOR
 DATE: 6/6/23

DATE: 6/2/2023
 DRAWN: DB
 SCALE: AS SHOWN
 CHECKED: CB

COMMUNITY AND ECONOMIC DEVELOPMENT
IMPROVEMENTS FOR THE WIEST LAKE BOAT LAUNCHING FACILITY PROJECT

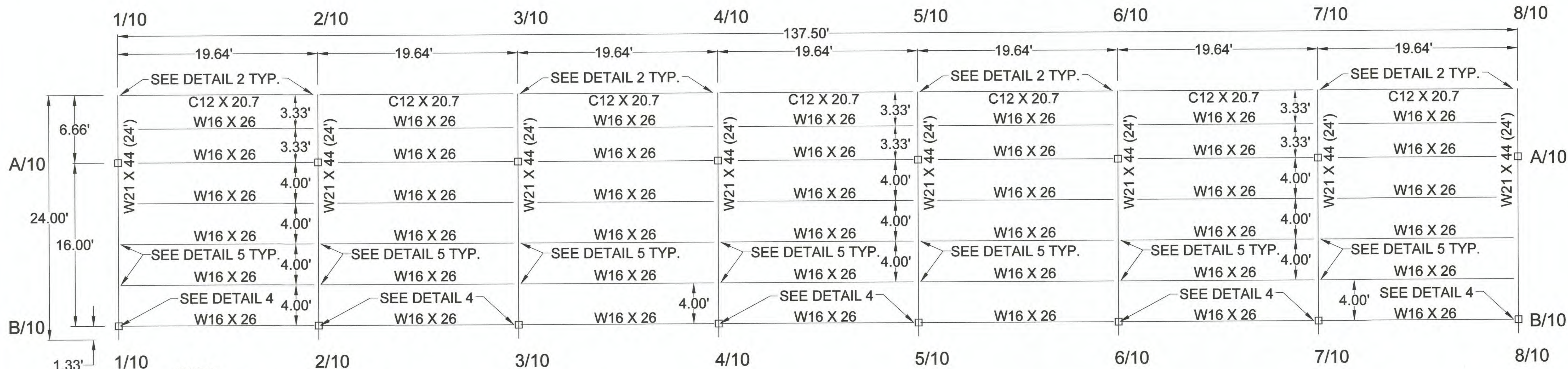
24' x 80' SHADE STRUCTURE SECTIONS
 SHEET 8 OF 26



NOTE:
DETAILS 1, 2, 3, 4 AND 5
FOR THIS SHEET ARE
FOUND ON SHEET 12.

CROSS SECTIONS ARE
FOUND ON SHEET 10

140 FT BY 24 FT SHADE STRUCTURE
COLUMN AND FOUNDATION PLAN



NOTE:
ROOF DECK SHOULD EXTEND 15
INCHES (OVERHANG) FROM CENTER OF
COLUMNS EXTENDING EAST

140 FT BY 24 FT SHADE STRUCTURE
FRAMING PLAN

REVISION	DATE	COMMENTS

PREPARED UNDER THE DIRECT SUPERVISION OF:

CARLOS BELTRAN
No. 69121
EXP 6-30-24
CIVIL ENGINEER
STATE OF CALIFORNIA

Carlos Beltran
DATE: 6/2/23

69121
R.C.E. No.
06/30/24
REG. EXP.

Dynamic CONSULTING ENGINEERS

CIVIL ENGINEERING - LAND SURVEYING - CONSTRUCTION MANAGEMENT
2415 IMPERIAL BUSINESS PARK DRIVE, SUITE B.,
IMPERIAL, CA. 92251
TEL. (760) 545-0162 FAX (760) 545-0163

COUNTY OF IMPERIAL
PUBLIC WORKS DEPARTMENT

JOHN GAY
No. 69028
EXP 9-30-23
CIVIL ENGINEER
STATE OF CALIFORNIA

APPROVED BY THE COUNTY OF IMPERIAL:

John Gay
JOHN GAY, P.E.
PUBLIC WORKS DIRECTOR
DATE: 6/6/23

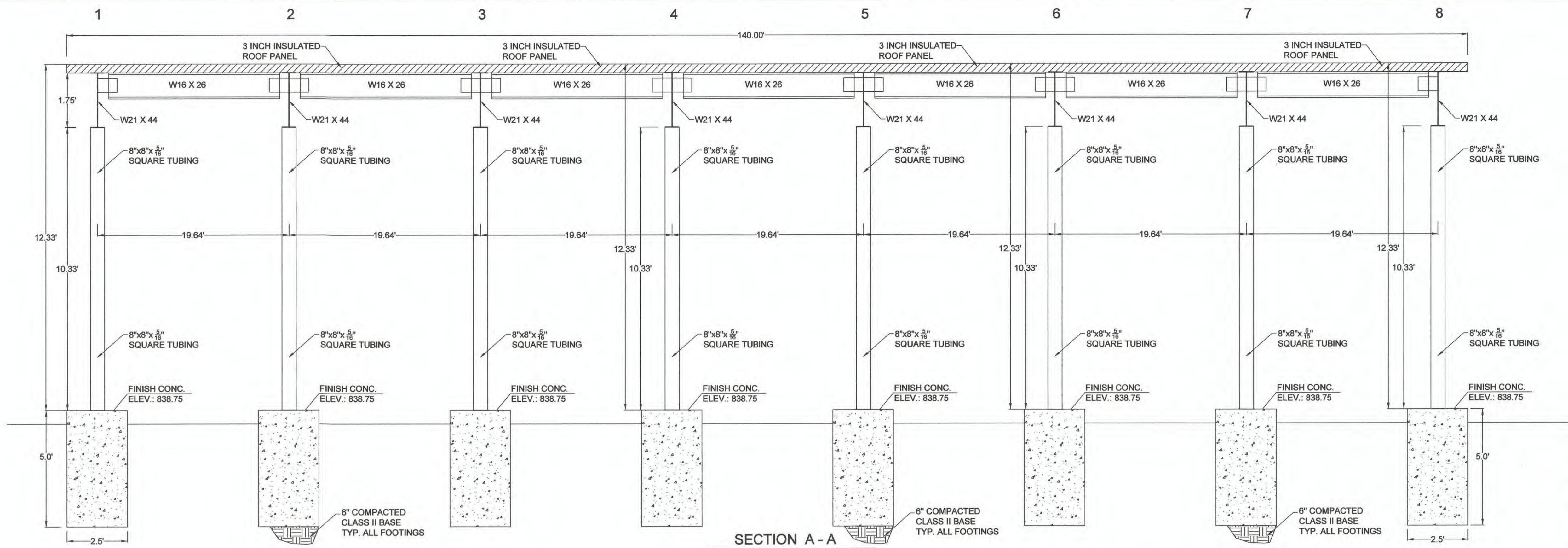
DATE	6/2/2023
DRAWN	DB
SCALE	AS SHOWN
CHECKED	CB

COMMUNITY AND ECONOMIC DEVELOPMENT

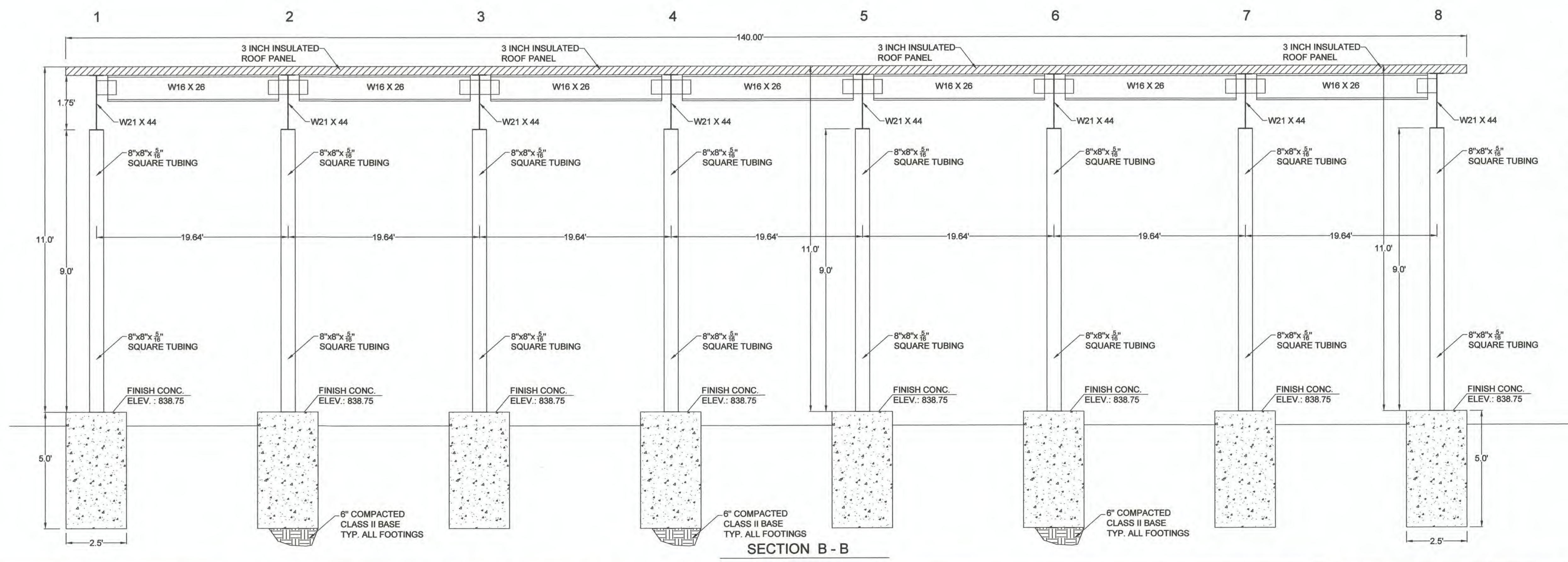
IMPROVEMENTS FOR THE
WIEST LAKE BOAT LAUNCHING
FACILITY PROJECT

24' x 140' SHADE STRUCTURE

SHEET 9 OF 26




NOTE:
DETAILS 1, 2, 3, 4 AND 5
FOR THIS SHEET ARE
FOUND ON SHEET 12.




GENERAL NOTES:


1. CONCRETE SHALL BE 4,500 PSI TYPE V PORTLAND CEMENT WITH A MAXIMUM WATER/CEMENT RATIO OF 0.45 (BY WEIGHT).
2. CONCRETE POUR SHALL BE MONOLITHIC.
3. REINFORCING BARS SHALL BE GRADE 40 (fy = 40,000 psi)
4. ALL REINFORCING BARS SHALL HAVE AT MINIMUM 3" COVER.
5. SPECIAL INSPECTIONS SHALL BE PROVIDED FOR THE CONCRETE CONSTRUCTION PER CALIFORNIA BUILDING CODE SECTION 1704.4 AND TABLE 1704.4 REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION.

REVISION	DATE	COMMENTS

PREPARED UNDER THE DIRECT SUPERVISION OF:

CARLOS BELTRAN, P.E.
 No. 69121
 EXP 6-30-24
 DATE: 6/6/23
 REG. EXP. 06/30/24

Dynamic CONSULTING ENGINEERS
 CIVIL ENGINEERING - LAND SURVEYING - CONSTRUCTION MANAGEMENT
 2415 IMPERIAL BUSINESS PARK DRIVE, SUITE B.,
 IMPERIAL, CA. 92251
 TEL. (760) 545-0162 FAX (760) 545-0163

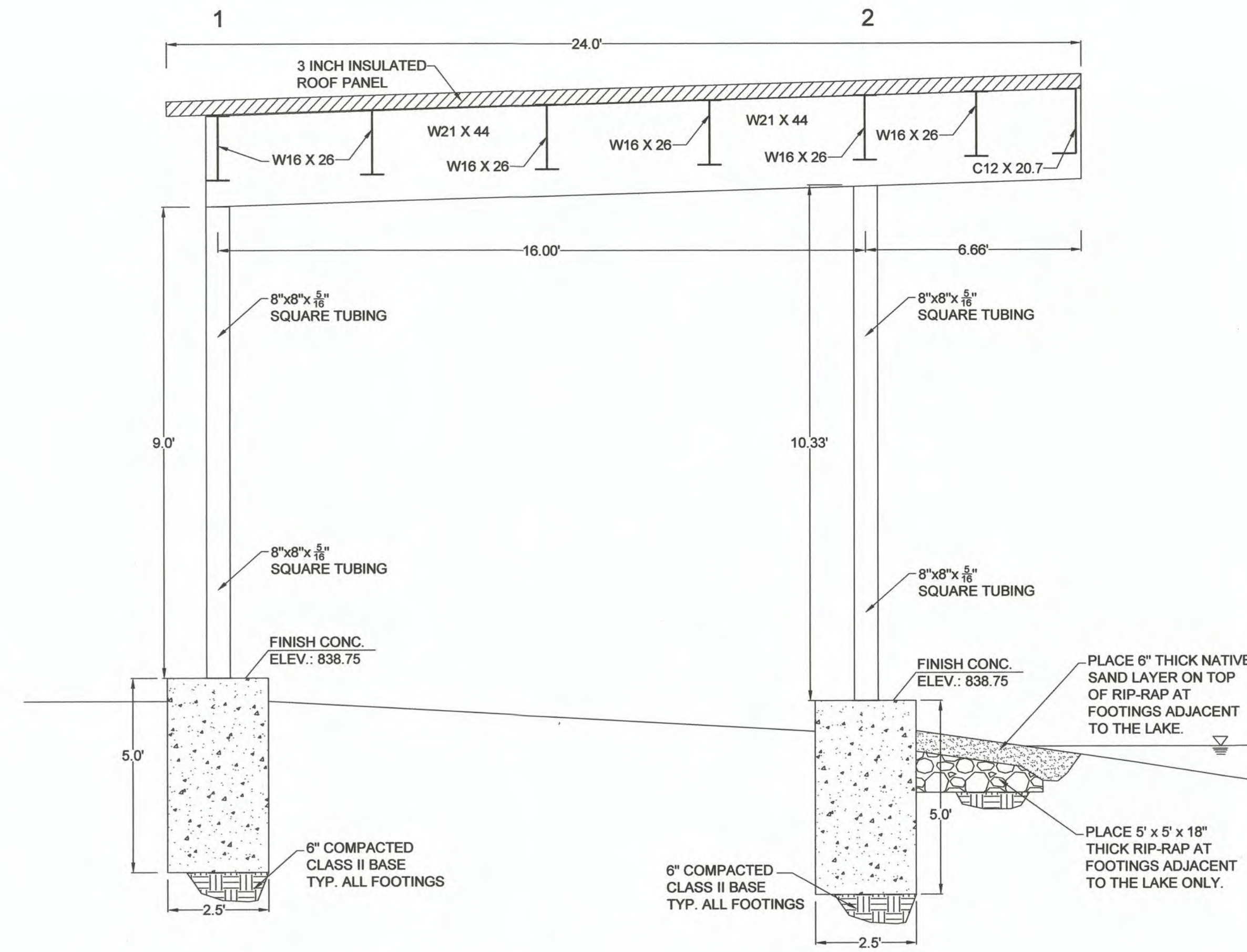
 PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL

APPROVED BY THE COUNTY OF IMPERIAL:

John Gay
 No. 62028
 EXP 9-30-23
 DATE: 6/6/23
 PUBLIC WORKS DIRECTOR

DATE: 6/2/2023
 DRAWN: DB
 SCALE: AS SHOWN
 CHECKED: CB

COMMUNITY AND ECONOMIC DEVELOPMENT
IMPROVEMENTS FOR THE WIEST LAKE BOAT LAUNCHING FACILITY PROJECT

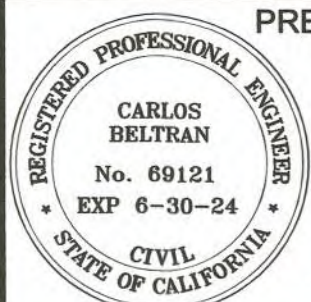
24' x 140' SHADE STRUCTURE SECTIONS
 SHEET 10 OF 26




NOTE:
 DETAILS 1, 2, 3, 4 AND 5
 FOR THIS SHEET ARE
 FOUND ON SHEET 12.

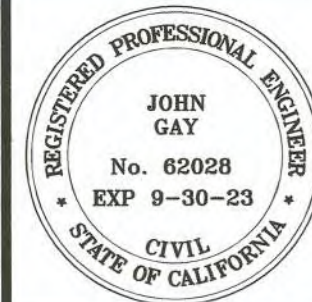
SECTION 1 - 1

REVISION	DATE	COMMENTS

PREPARED UNDER THE DIRECT SUPERVISION OF:

 CARLOS BELTRAN, P.E.
 DATE: 6/2/23

Dynamic CONSULTING ENGINEERS
 CIVIL ENGINEERING - LAND SURVEYING - CONSTRUCTION MANAGEMENT
 2415 IMPERIAL BUSINESS PARK DRIVE, SUITE B.,
 IMPERIAL, CA. 92251
 TEL. (760) 545-0162 FAX (760) 545-0163

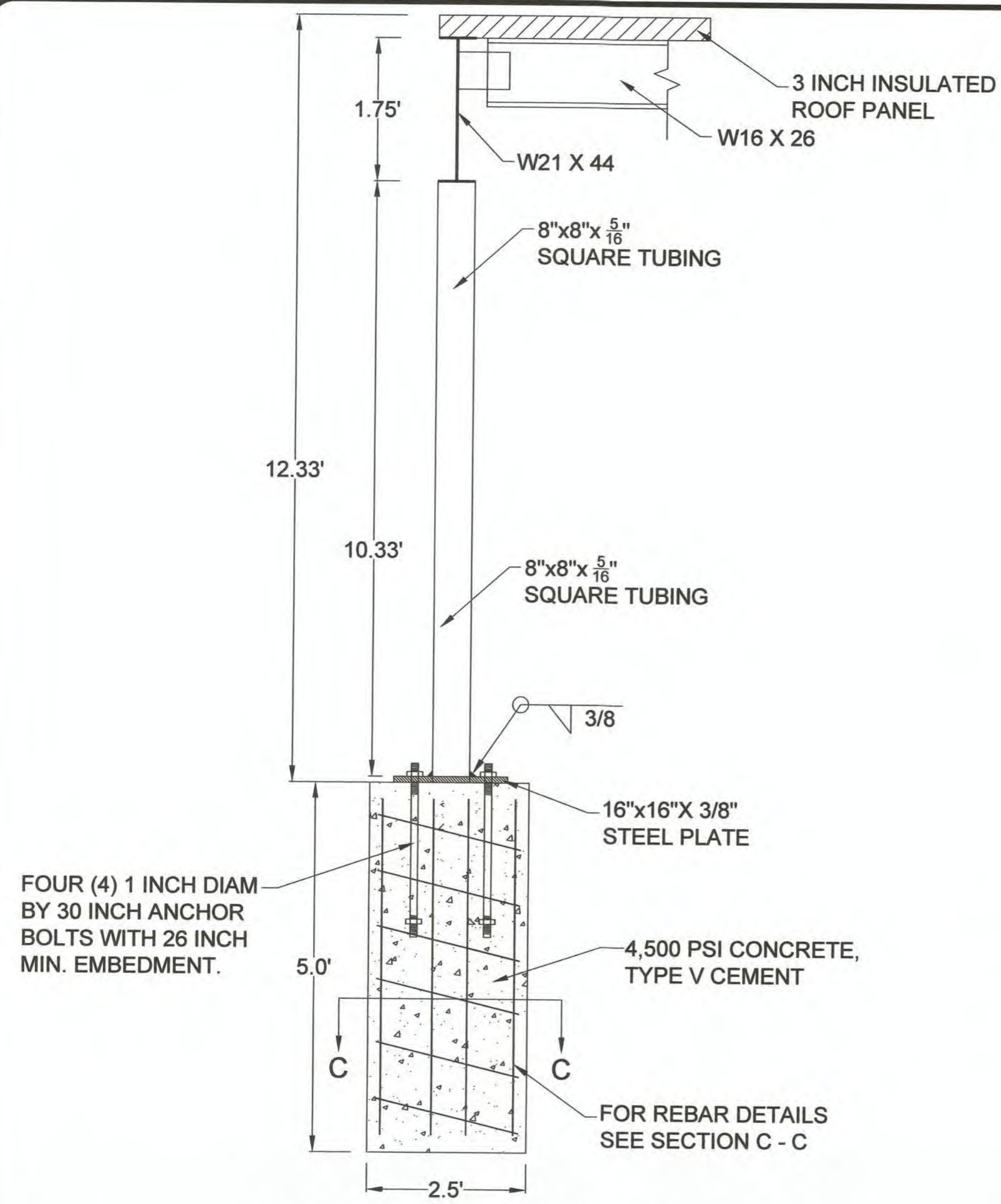
 PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL

APPROVED BY THE COUNTY OF IMPERIAL:

 JOHN GAY, P.E.
 PUBLIC WORKS DIRECTOR
 DATE: 6/6/23

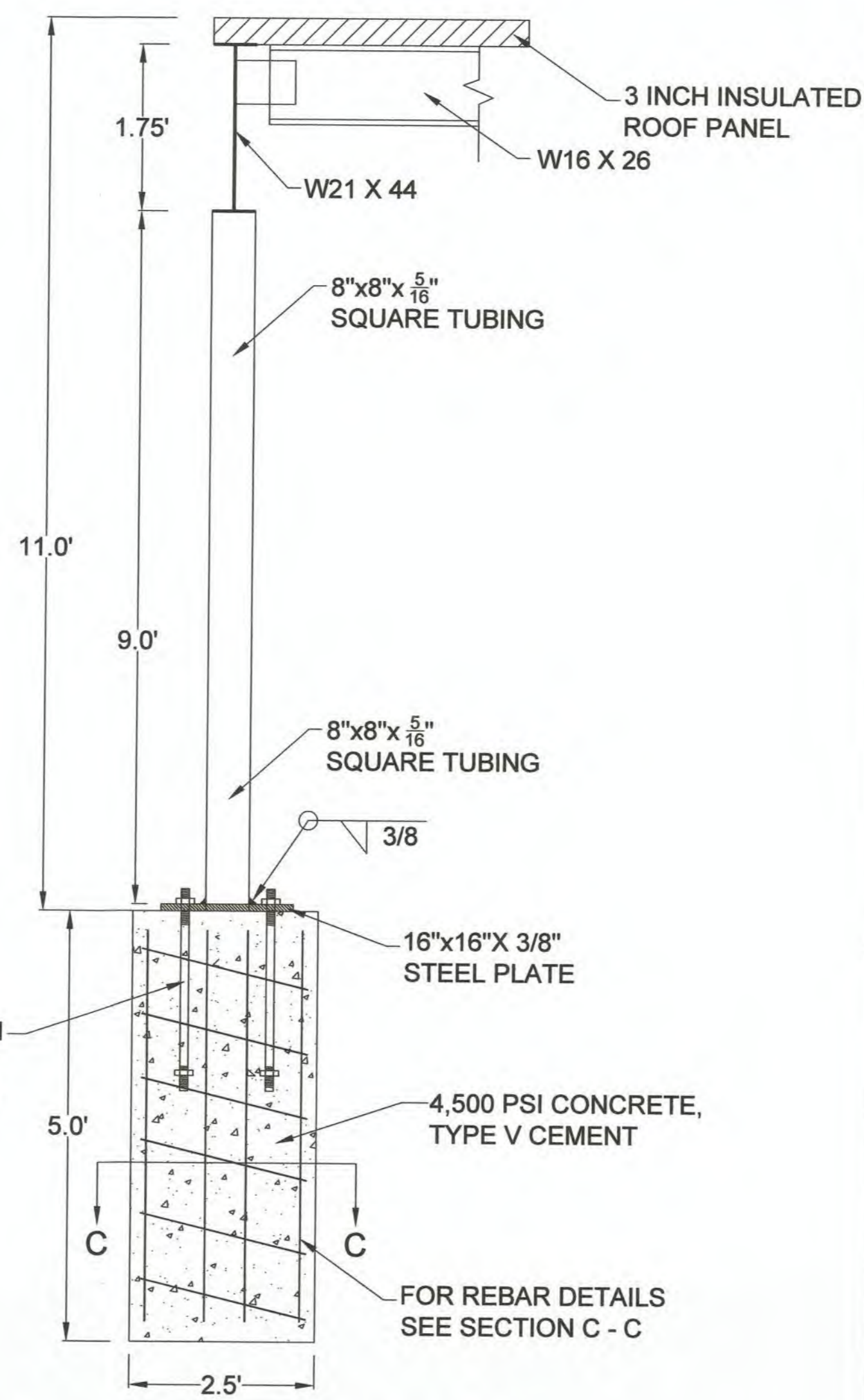
DATE: 6/2/2023
 DRAWN: DB
 SCALE: AS SHOWN
 CHECKED: CB

COMMUNITY AND ECONOMIC DEVELOPMENT
 IMPROVEMENTS FOR THE WEST LAKE BOAT LAUNCHING FACILITY PROJECT

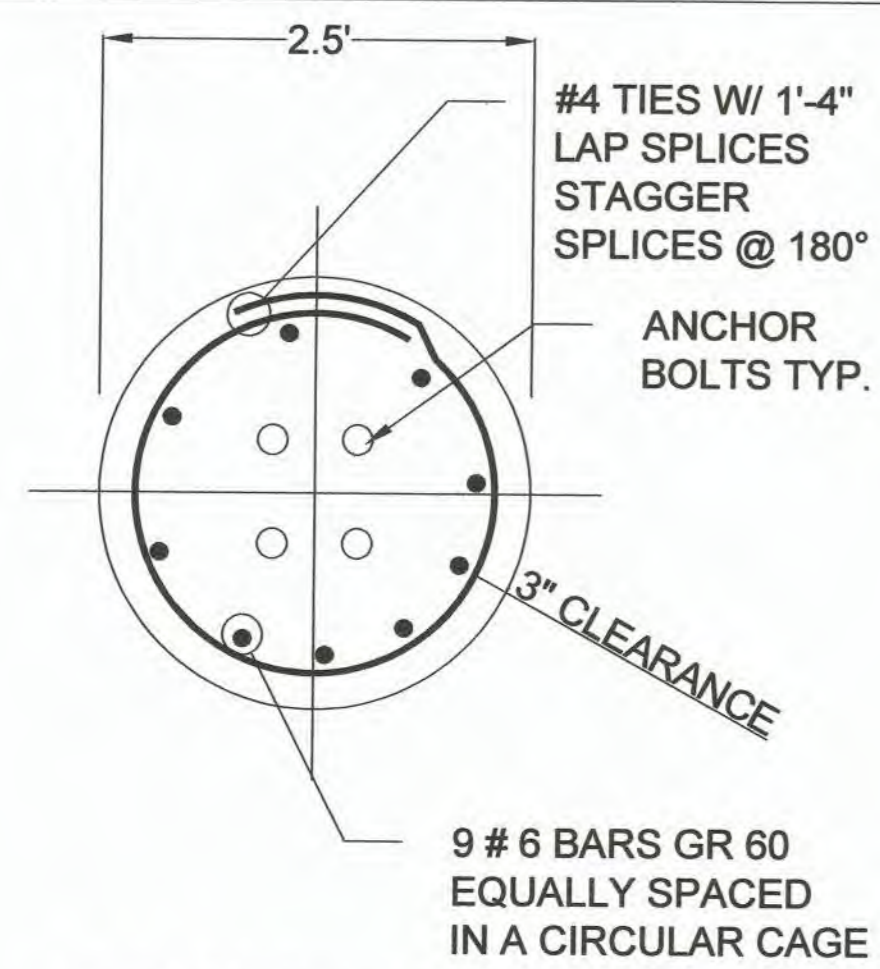
24' x 140' SHADE STRUCTURE SECTIONS
 SHEET 11 OF 26



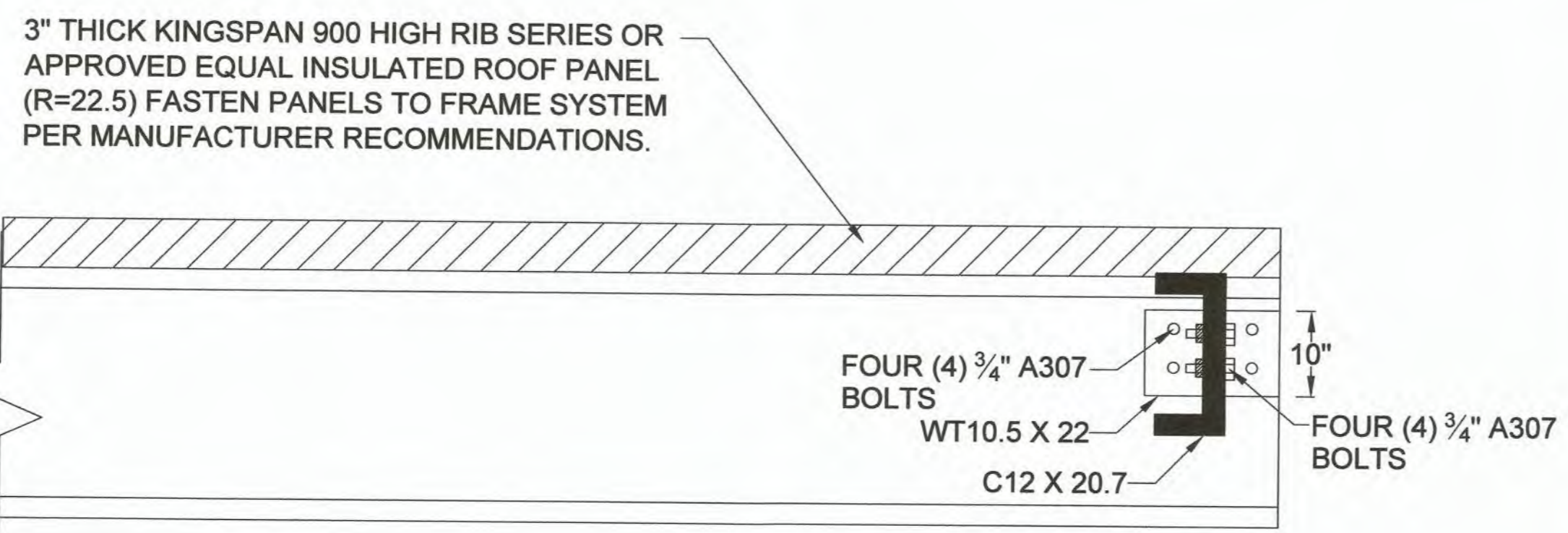
**COLUMN AND FOOTING
DETAIL 1**



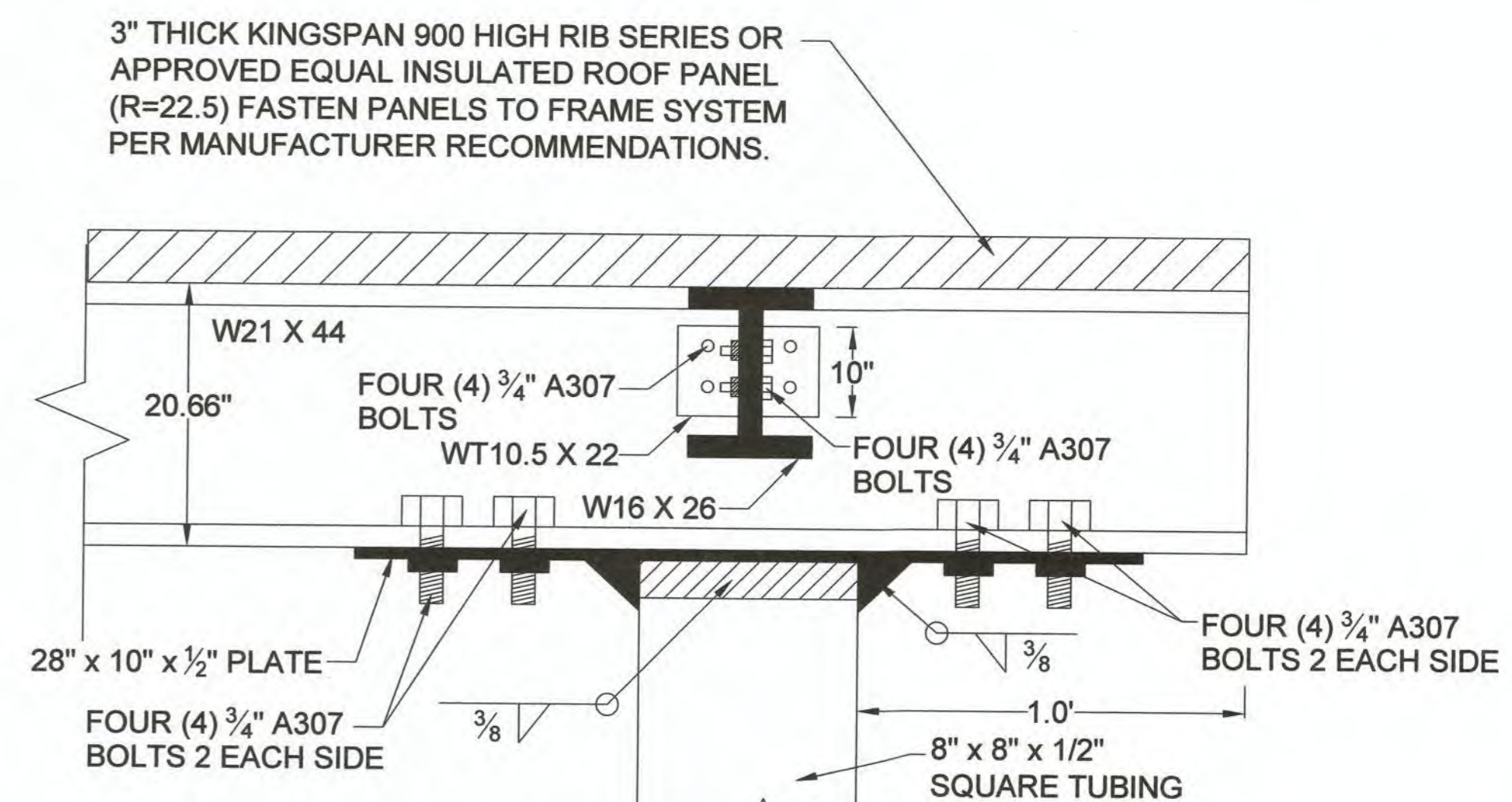
**COLUMN AND FOOTING
DETAIL 3**



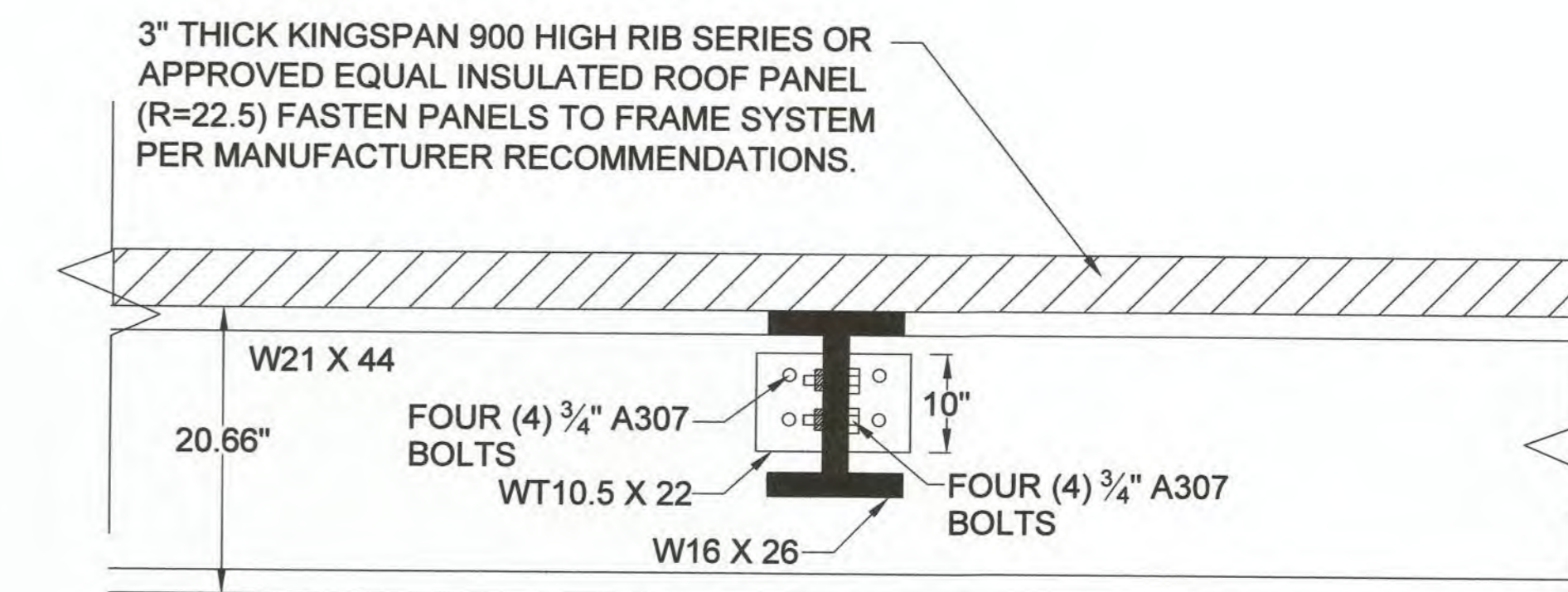
SECTION C - C



DETAIL 2



DETAIL 4



DETAIL 5

REVISION	DATE	COMMENTS

PREPARED UNDER THE DIRECT SUPERVISION OF:

CARLOS BELTRAN
No. 69121
EXP. 6-30-24
CIVIL
STATE OF CALIFORNIA

CB
CARLOS BELTRAN, P.E.

69121 R.C.E. No.
08/30/24 REG. EXP.

Dynamic CONSULTING ENGINEERS

CIVIL ENGINEERING - LAND SURVEYING - CONSTRUCTION MANAGEMENT
2415 IMPERIAL BUSINESS PARK DRIVE, SUITE B.,
IMPERIAL, CA. 92251
TEL. (760) 545-0162 FAX (760) 545-0163

PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL

APPROVED BY THE COUNTY OF IMPERIAL:

JOHN GAY
No. 62028
EXP. 9-30-23
CIVIL
STATE OF CALIFORNIA

John Gay
JOHN GAY, P.E.
PUBLIC WORKS DIRECTOR

6/6/23
DATE

62028 R.C.E. No.
09/30/23 REG. EXP.

DATE	6/2/2023
DRAWN	DB
SCALE	AS SHOWN
CHECKED	CB

COMMUNITY AND ECONOMIC DEVELOPMENT

IMPROVEMENTS FOR THE WIEST LAKE BOAT LAUNCHING FACILITY PROJECT

SHADE STRUCTURE DETAILS

SHEET 12 OF 26

THE CONTRACTOR SHALL FURNISH MATERIAL, FABRICATE, AND INSTALL, THE STRUCTURAL STEEL FRAMING AND ALL APPURTENANT METAL PARTS REQUIRED FOR PERMANENT CONNECTION OF THE STRUCTURAL STEEL.

REFERENCE SPECIFICATIONS, CODES AND STANDARDS

- COMPLY WITH THE CURRENT PROVISIONS OF THE FOLLOWING CODES AND STANDARDS.
- AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES"
 - AISC "SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" AND INCLUDING THE "COMMENTARY OF THE AISC SPECIFICATION"
 - AISC "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS" APPROVED BY THE RESEARCH COUNCIL OF RIVETED AND BOLTED STRUCTURAL JOINTS OF THE ENGINEERING FOUNDATION
 - AISC STRUCTURAL WELDING CODE AWS D1.1-96 AND "STANDARD QUALIFICATION PROCEDURE"
 - ASTM A36 - STANDARD SPECIFICATION FOR CARBON STRUCTURAL STEEL
 - ASTM A992 - STANDARD SPECIFICATION FOR STRUCTURAL STEEL
 - ASTM A53 - STANDARD SPECIFICATION FOR PIPE, STEEL, BLACK AND HOT-DIPPED, ZINC-COATED, WELDED AND SEAMLESS
 - ASTM A123 - STANDARD SPECIFICATION FOR ZINC COATING (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS
 - ASTM A153 - STANDARD SPECIFICATION FOR ZINC COATING (HOT-DIP) ON IRON AND STEEL HARDWARE
 - ASTM A193 - STANDARD SPECIFICATION FOR ALLOY-STEEL AND STAINLESS STEEL BOLTING MATERIALS FOR HIGH-TEMPERATURE SERVICE
 - ASTM A 194 - STANDARD SPECIFICATION FOR CARBON AND ALLOY STEEL NUTS FOR BOLTS FOR HIGH PRESSURE AND HIGH TEMPERATURE SERVICE
 - ASTM A307 - STANDARD SPECIFICATION FOR CARBON STEEL BOLTS AND STUDS, 60,000 PSI TENSILE STRENGTH
 - ASTM A325 - STANDARD SPECIFICATION FOR STRUCTURAL BOLTS, STEEL, HEAT TREATED, 120/105 KSI MINIMUM TENSILE STRENGTH
 - ASTM A490 - STANDARD SPECIFICATION FOR STRUCTURAL BOLTS, STEEL, 150 KSI MINIMUM TENSILE STRENGTH
 - ASTM A500 - STANDARD SPECIFICATION FOR COLD-FORMED WELDED AND SEAMLESS CARBON STEEL STRUCTURAL TUBING IN ROUNDS AND SHAPES
 - ASTM A501 - STANDARD SPECIFICATION FOR HOT-FORMED WELDED AND SEAMLESS CARBON STEEL STRUCTURAL TUBING

SHOP DRAWINGS

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL. SHOP DRAWINGS SHALL CONFORM TO AISC RECOMMENDATIONS AND SPECIFICATIONS AND SHALL SHOW ALL HOLES, ETC. REQUIRED FOR OTHER WORK. DRAWINGS SHALL INCLUDE COMPLETE DETAILS SHOWING ALL MEMBERS AND THEIR CONNECTIONS, ANCHOR BOLT LAYOUTS, FIELD WELDS, SCHEDULES FOR FABRICATION PROCEDURES, AND DIAGRAMS SHOWING THE SEQUENCE OF ERECTION. MEMBERS AND CONNECTIONS FOR ANY PORTION OF THE STRUCTURE NOT SHOWN ON THE DRAWINGS SHALL BE DETAILED BY THE FABRICATOR AND INDICATED ON THE SHOP DRAWINGS. ALL WELDS SHALL BE INDICATED BY STANDARD WELDING SYMBOLS OF THE AWS. SHOP DRAWINGS SHALL SHOW REFERENCE MARKS AND CROSS REFERENCES TO DRAWINGS. FABRICATOR SHALL BE RESPONSIBLE FOR CORRECT INTERPRETATION OF DRAWINGS AND SHALL CALL TO THE ENGINEER'S ATTENTION ANY DISCREPANCIES FOUND ON DRAWINGS.

CERTIFIED ALLOY TEST REPORTS SHALL BE FURNISHED FOR ALL MATERIALS SPECIFIED HEREIN UPON REQUEST OF THE ENGINEER.

WELDER CERTIFICATIONS SHALL BE SUBMITTED FOR SHOP AND FIELD WELDERS IN TRIPLICATE, DIRECTLY TO THE ENGINEER FROM A RECOGNIZED TESTING LABORATORY, WITH COPIES TO THE CONTRACTOR AND OTHERS AS REQUIRED.

COPIES OF REPORTS OF TESTS AND INSPECTION CONDUCTED ON SHOP AND FIELD WELDED AND BOLTED CONNECTIONS SHALL BE SUBMITTED TO THE ENGINEER.

QUALITY ASSURANCE

FABRICATION SHOPS SHALL BE AISC CERTIFIED: SHOP INSPECTION MAY BE REQUIRED BY THE CITY AT THE CITY'S OWN EXPENSE. THE CONTRACTOR SHALL GIVE AMPLE NOTICE TO THE ENGINEER PRIOR TO THE BEGINNING OF ANY FABRICATION WORK SO THAT INSPECTION MAY BE PROVIDED. THE CONTRACTOR SHALL FURNISH ALL FACILITIES FOR THE INSPECTION OF MATERIALS AND WORKMANSHIP IN THE SHOP AND ENGINEER SHALL BE ALLOWED FREE ACCESS TO THE NECESSARY PARTS OF THE WORK. ENGINEER SHALL HAVE THE AUTHORITY TO REJECT ANY MATERIALS OR WORK NOT MEETING THE REQUIREMENTS OF THESE SPECIFICATIONS.

INSPECTION AT THE SHOP IS INTENDED AS A MEANS OF FACILITATING THE WORK AND AVOIDING ERRORS, BUT IT IS EXPRESSLY UNDERSTOOD THAT IT WILL IN NO WAY RELIEVE THE CONTRACTOR FROM ITS RESPONSIBILITY FOR FURNISHING PROPER MATERIALS OR WORKMANSHIP UNDER THIS SPECIFICATION.

HIGH-STRENGTH BOLTS SHALL BE INSPECTED USING ONE OF THE PROCEDURES SET FORTH IN THE CURRENT AISC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.

TEN PERCENT OF ALL BUTT AND BEVEL WELDS WHICH EXTEND CONTINUOUSLY FOR 24 INCHES OR LESS SHALL BE COMPLETELY TESTED IN ACCORDANCE WITH AWS D1.1-96, PART B, RADIOGRAPHIC TESTING OF WELDS, CHAPTER 6. ALL BUTT AND BEVEL WELDS WHICH EXTEND CONTINUOUSLY FOR MORE THAN 24 INCHES SHALL BE SPOT TESTED AT INTERVALS NOT EXCEEDING 36 INCHES.

WELDS THAT ARE REQUIRED BY THE ENGINEER TO BE CORRECTED SHALL BE CORRECTED OR REDONE AND RETESTED AS DIRECTED, AT THE CONTRACTORS EXPENSE, AND TO THE SATISFACTION OF THE ENGINEER AND/OR APPROVED INDEPENDENT TESTING LAB.

FIELD INSPECTIONS AND TESTING

THE ENGINEER AND THE RESIDENT PROJECT REPRESENTATIVE RESERVE THE RIGHT TO INSPECT THE WORK AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE TEMPORARY LADDERS, STEPS, SCAFFOLDING, PLANKING, ETC., NECESSARY FOR SAFE ACCESS TO THE WORK TO BE INSPECTED.

MATERIALS

ALL STRUCTURAL STEEL SHAPES, PLATES, BARS, RODS AND THEIR PRODUCTS SHALL BE ASTM 36 OR ASTM A992 UNLESS OTHERWISE INDICATED.

ALL STEEL SHALL BE DELIVERED CLEAN AND FREE FROM MILL SCALE, RUST OR PITTING.

CERTIFIED COPIES OF MILL TEST REPORTS SHALL BE FURNISHED TO THE ENGINEER WHEN REQUESTED.

STRUCTURAL STEEL PIPE SHALL BE ASTM A501, OR ASTM A53, TYPE E OR S.

STRUCTURAL TUBING SHALL BE ASTM A500, GRADE **B** WITH FY=46 KSI.

BOLTS SHALL HAVE HEXAGONAL HEADS AND NUTS. THREADS SHALL BE CLEAN CUT OF AMERICAN STANDARD SIZE.

HIGH STRENGTH BOLTS FOR STRUCTURAL FRAMING CONNECTIONS SHALL BE ASTM A325 OR A490; USE A325 UNLESS OTHERWISE SHOWN. BOLTS USED TO CONNECT DISSIMILAR METALS SHALL BE ASTM AL 93, TYPE 316 STAINLESS STEEL.

NUTS SHALL BE COMPATIBLE WITH, AND HAVE THE SAME FINISH AS, THE ATTACHED BOLT AND SHALL BE ASTM A563, GRADE DH OR ASTM A194.

ALL BOLTS, NUTS, STUDS AND FASTENERS EXPOSED TO WATER, GROUNDWATER, SEWAGE, SEWER GAS OR ENCLOSED AREAS ABOVE SEWAGE SHALL BE TYPE 316 STAINLESS STEEL.

STEEL BOLTS, NUTS, WASHERS, STUDS AND FASTENERS FOR GENERAL USE SHALL CONFORM TO ASTM A307 AND SHALL BE HOT-DIP GALVANIZED PER ASTM A153.

A HARDENED FLAT WASHER SHALL BE PROVIDED UNDER THE NUT OR BOLT HEAD TURNED IN TIGHTENING. HARDENED FLAT WASHERS SHALL BE PROVIDED UNDER THE BOLT HEAD AND NUT FOR BOLTS IN SLOTTED HOLES.

ALL BOLTS, NUTS, WASHERS, AND FASTENERS USED IN CONTACT WITH ALUMINUM SHALL BE TYPE 304 OR TYPE 316 STAINLESS STEEL.

BOLTS REQUIRED TO BE BENT SHALL BE BENT COLD. THE BEND RADIUS SHALL NOT BE LESS THAN TWICE THE BOLT DIAMETER.

STRUCTURAL STEEL SHALL BE CLEANED, SHARP EDGES AND CORNERS REMOVED, AND COATED WITH ASHOP PAINT PRIMER; EXCEPT, THAT PRIMER SHALL BE OMITTED FOR SURFACES TO BE GALVANIZED, OR WELDED OR EMBEDDED IN CONCRETE WITH NO FURTHER COATING.

MATERIAL TO BE GALVANIZED SHALL HAVE NO CORNER WITH A RADIUS OF LESS THAN 1/16 INCH.

ALL STRUCTURAL MEMBERS SHALL BE FURNISHED FULL LENGTH WITHOUT SPLICES UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER.

GENERAL

THE CONTRACTOR SHALL FURNISH AND INSTALL ALL STEEL AND MISCELLANEOUS FERROUS METAL ITEMS AS SHOWN ON PLANS. ALL FABRICATION AND ERECTION OF STEEL ITEMS SHALL CONFORM TO AISC "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", WHEREVER APPLICABLE, UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL TAKE ALL MEASUREMENTS NECESSARY TO PROPERLY FIT THE WORK IN THE FIELD.

DAMAGED STRUCTURAL STEEL SHALL BE REPLACED. USE OF SALVAGED, REPROCESSED, OR SCRAP MATERIALS SHALL NOT BE PERMITTED.

DISSIMILAR METALS SHALL BE PROTECTED FROM GALVANIC CORROSION BY MEANS OF PRESSURE TAPES, COATINGS, OR ISOLATORS.

MEASUREMENTS

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, GRADES, ELEVATIONS, JOB CONDITIONS, AND SHALL MAKE ANY FIELD MEASUREMENTS NECESSARY AND SHALL BE FULLY RESPONSIBLE FOR ACCURACY AND LAYOUT OF WORK. THE CONTRACTOR SHALL REVIEW THE DRAWINGS AND ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER FOR CLARIFICATION PRIOR TO STARTING FABRICATION.

FABRICATION

FABRICATE ITEMS OF STRUCTURAL STEEL IN ACCORDANCE WITH THE DRAWINGS, AISC SPECIFICATIONS, AND AS INDICATED ON THE FINAL REVIEWED SHOP DRAWINGS. FABRICATION AND ASSEMBLY SHALL BE DONE IN THE SHOP TO THE GREATEST EXTENT POSSIBLE.

ALL STEEL AND MISCELLANEOUS FERROUS METAL ITEMS SHALL BE CAREFULLY FABRICATED TO TRUE DIMENSIONS WITHOUT WARP OR TWIST.

PROPERLY MARK AND MATCHMARK MATERIALS FOR FIELD ASSEMBLY.

WHERE FINISHING IS REQUIRED, COMPLETE THE ASSEMBLY, INCLUDING BOLTING AND WELDING OF UNITS, BEFORE START OF FINISHING OPERATIONS.

CONNECTIONS

WELD OR BOLT SHOP CONNECTIONS AS SHOWN UNLESS OTHERWISE NOTED. BOLT FIELD CONNECTIONS, EXCEPT WHERE WELDED CONNECTIONS OR OTHER CONNECTIONS ARE SHOWN OR SPECIFIED. ALL CONNECTIONS UNLESS SHOWN OTHERWISE SHALL DEVELOP FULL STRENGTH

UNLESS OTHERWISE INDICATED ON THE DRAWINGS, MINIMUM BEAM FRAMING CONNECTIONS SHALL BE IN ACCORDANCE WITH AISC MANUAL OF STEEL CONSTRUCTION. ALL CONNECTIONS OF BEAMS, EXCEPT HANDRAILS, LADDERS AND GIRT CONNECTIONS, SHALL BE BOLTED WITH HIGH-STRENGTH BOLTS TO PROVIDE SLIP CRITICAL TYPE CONNECTIONS USING DIRECT TENSIONS LOAD INDICATOR WASHERS OR TENSION SET BOLTS. BEAM CONNECTIONS SHALL HAVE A MINIMUM OF TWO 3/4-INCH HIGH-STRENGTH BOLTS UNLESS OTHERWISE INDICATED. ALL CONNECTIONS UNLESS SHOWN OTHERWISE SHALL DEVELOP FULL STRENGTH OF MEMBERS JOINED AND SHALL CONFORM TO AISC STANDARD CONNECTIONS. INSTALLATION OF BOLTS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND AISC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325.

DOUBLE-ANGLE MEMBERS SHALL BE CONNECTED TOGETHER IN ACCORDANCE WITH AISC SPECIFICATION, WITH A 3/4-INCH DIAMETER, HIGH-STRENGTH BOLT AND A FILLER PLATE OR WELDED FILLER PLATE SPACED AS INDICATED ON THE DRAWINGS.

COLUMN ENDS SHALL BE SQUARE AND MILLED TO HAVE FULL BEARING AT SPLICES AND AT BASE PLATES.

THE CONTRACTOR SHALL NOTIFY THE RESIDENT PROJECT REPRESENTATIVE TO MAKE ARRANGEMENTS TO INSPECT HIGH STRENGTH BOLTED CONNECTIONS AND WELDED CONNECTIONS AND TO PERFORM TESTING AND PREPARE TEST REPORTS. THIS INSPECTION SHALL BE IN ADDITION TO THE INSPECTION SPECIFIED IN THIS SPECIFICATION.

WELDED CONSTRUCTION

ALL WELDING SHALL COMPLY WITH THE CURRENT AWS D1.1 CODE FOR PROCEDURES, APPEARANCE, AND QUALITY OF WELDS AND WELDERS, AND METHODS USED IN CORRECTING WELDING WORK.

WELDERS, WELDING OPERATIONS AND TACKERS SHALL BE PREQUALIFIED IN ACCORDANCE WITH THE SPECIFICATIONS OF AWS D1.1 AND SHALL PRODUCE WRITTEN EVIDENCE OF QUALIFICATION SATISFACTORY TO THE ENGINEER. ALL COSTS ASSOCIATED WITH QUALIFICATION OF WELDERS SHALL BE BORNE BY THE CONTRACTOR.

WELDING PROCEDURES SHALL BE SUBMITTED FOR APPROVAL TO THE ENGINEER PRIOR TO THE BEGINNING OF CONSTRUCTION. CERTIFICATION THAT WELDING PROCEDURES, WELDERS AND WELDING OPERATORS THAT THE CONTRACTOR INTENDS TO USE MEET THE ASME REQUIREMENTS SHALL ALSO BE SUBMITTED TO THE ENGINEER PRIOR TO THE BEGINNING OF CONSTRUCTION. ANY WELDING NOT TRACEABLE TO THE WELDER PERFORMING THE WORK SHALL BE CAUSE FOR REJECTION BY THE ENGINEER. THE ENGINEER SHALL BE NOTIFIED OF ANY WELD REPAIRS AND PROPOSED REPAIR PROCEDURES.

SHARP OR HAZARDOUS OBSTRUCTIONS SHALL BE ROUNDED OFF AND GROUND SMOOTH. WELDED CLOSURES SHALL BE NEATLY MADE; AND WHERE WELD MATERIAL INTERFERES WITH FIT, OR IS UNSIGHTLY IN APPEARANCE, IT SHALL BE GROUND OFF SMOOTH.

STAINLESS STEEL WELDING SHALL CONFORM TO THE DETAILS AND STANDARDS OF WORKMANSHIP OF THIS SPECIFICATION AND AWS D1.1, EXCEPT THE PRE-QUALIFIED WELDS FOR CARBON STEEL ARE NOT APPLICABLE TO STAINLESS STEEL. WELDERS AND WELD PROCEDURES FOR STAINLESS STEEL SHALL BE SPECIFICALLY QUALIFIED PER AWS B2.1 FOR THE TYPE OF STAINLESS STEEL TO BE WELDED. WELDERS AND WELD PROCEDURES FOR WELDING OF STAINLESS STEEL TO CARBON STEEL SHALL BE QUALIFIED PER AWS B2.1.

CONTINUOUS SEAL WELDS SHALL BE APPLIED ON STRUCTURAL STEEL DESIGNED TO BE EXPOSED TO WEATHER OR SUBMERGED IN WATER OR WASTEWATER. CONTINUOUS SEAL WELDS SHALL BE APPLIED ON BOTH SIDES OF STRUCTURAL STEEL DESIGNED TO BE SUBMERGED IN WATER OR WASTEWATER.

INSPECTIONS

THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 24 HOURS BEFORE STARTING ANY SHOP OR FIELD WELDING. WELDS SHALL BE INSPECTED BY RADIOGRAPHIC OR OTHER MEANS. WELDS FOUND NOT IN ACCORDANCE WITH THIS SPECIFICATION SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. THE NEW WELD SHALL BE INSPECTED AND AN ADDITIONAL 2 WELDS SELECTED AT RANDOM SHALL BE RE-INSPECTED.

WELDERS FOUND PERFORMING UNSATISFACTORY WORK SHALL BE REMOVED FROM THE WELDING PROCESS.

COATING AND GALVANIZING

APPLY SHOP PAINT PRIMER IN ACCORDANCE WITH PROTECTIVE COATING REQUIREMENTS. OMIT SHOP APPLIED PRIMER IN THE FOLLOWING CASES: AT FIELD WELD LOCATIONS, FOR THE PORTION OF A MEMBER TO BE EMBEDDED IN CONCRETE, AND WHERE GALVANIZING WITH NO FURTHER COATING IS REQUIRED. REMOVE ALL SLAG FROM WELDS BEFORE PAINTING.

THE CONTRACTOR SHALL FINISH PAINT STEEL AND MISCELLANEOUS FERROUS METAL ITEMS AS SPECIFIED BY THE CITY OF BRAWLEY.

STEEL OR IRON SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION AND SHALL CONFORM TO ASTM A123.

AREAS OF GALVANIZING DAMAGED BY WELDING OR BURNING OR OTHERWISE DAMAGED SHALL BE REPELLED USING METHOD APPROVED BY THE ENGINEER.

STRUCTURAL STEEL COMPLETELY ENCASED IN CONCRETE SHALL NOT BE PAINTED OR GALVANIZED AND SHALL HAVE A CLEAN SURFACE FOR BONDING TO CONCRETE.

PRODUCT DELIVERY, STORAGE, AND HANDLING

LOAD STRUCTURAL MEMBERS IN SUCH A MANNER THAT THEY MAY BE TRANSPORTED AND UNLOADED WITHOUT BEING EXCESSIVELY STRESSED, DEFORMED, OR OTHERWISE DAMAGED.

PROTECT STRUCTURAL STEEL MEMBERS AND PACKAGED MATERIALS FROM CORROSION AND DETERIORATION. MATERIAL SHALL BE STORED IN A DRY AREA AND SHALL NOT BE PLACED IN DIRECT CONTACT WITH THE GROUND. DO NOT PLACE MATERIALS ON THE STRUCTURE IN A MANNER THAT MIGHT CAUSE DISTORTION OR DAMAGE TO THE MEMBERS OR THE SUPPORTING STRUCTURES. REPAIR OR REPLACE DAMAGED MATERIALS OR STRUCTURES AS DIRECTED.

ERECTION

THE CONTRACTOR SHALL COMPLY WITH THE AISC SPECIFICATIONS AND CODE OF STANDARD PRACTICE, AND WITH SPECIFIED REQUIREMENTS.

HIGH-STRENGTH BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH THE AISC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR ASTM A490 BOLTS. THE CONNECTIONS SHALL BE THE BEARING TYPE WITH THREADS EXCLUDED FROM THE SHEAR PLANE UNLESS NOTED OTHERWISE.

ANCHOR BOLTS AND OTHER CONNECTORS REQUIRED FOR SECURING STRUCTURAL STEEL TO IN-PLACE WORK, AND TEMPLATES AND OTHER DEVICES FOR PRESETTING BOLTS AND OTHER ANCHORS TO ACCURATE LOCATIONS SHALL BE FURNISHED.

FIELD ASSEMBLY

SET STRUCTURAL FRAMES ACCURATELY TO THE LINES AND ELEVATIONS INDICATED. ALIGN AND ADJUST THE VARIOUS MEMBERS TO FORM A PART OF A COMPLETE FRAME OR STRUCTURE BEFORE PERMANENTLY FASTENING. CLEAN BEARING SURFACES AND OTHER SURFACES WHICH WILL BE IN PERMANENT CONTACT BEFORE ASSEMBLY. PERFORM NECESSARY ADJUSTMENTS TO COMPENSATE FOR DISCREPANCIES IN ELEVATIONS AND ALIGNMENT.

LEVEL AND PLUMB INDIVIDUAL MEMBERS OF THE STRUCTURE WITHIN SPECIFIED AISC TOLERANCES. CONTRACTOR SHALL PROVIDE AND INSTALL ALL TEMPORARY BRACING NECESSARY TO CARRY CONSTRUCTION LOADS UNTIL THE STRUCTURE HAS BEEN COMPLETED.

ESTABLISH REQUIRED LEVELING AND PLUMBING MEASUREMENTS AT THE MAIN OPERATING TEMPERATURE OF THE STRUCTURE.

MISFITS AT BOLTED CONNECTIONS

WHERE MISFITS IN ERECTION BOLTING ARE ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER. THE CONTRACTOR SHALL SUBMIT A METHOD TO REMEDY THE MISFIT FOR REVIEW BY THE ENGINEER. THE ENGINEER WILL DETERMINE WHETHER THE REMEDY IS ACCEPTABLE OR IF THE MEMBERS MUST BE REFABRICATED. METHODS OF REMEDY MAY INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

REAM HOLES THAT MUST BE ENLARGED TO ADMIT BOLTS AND USE OVERSIZED BOLTS.

PLUG-WELD MISALIGNED HOLES AND REDRILL HOLES TO ADMIT STANDARD SIZE BOLTS.

DRILL ADDITIONAL HOLES IN THE CONNECTION, CONFORMING WITH AISC STANDARDS FOR BOLT SPACING AND END AND EDGE DISTANCES, AND ADD ADDITIONAL BOLTS.

REJECT THE IMPROPERLY FABRICATED MEMBER AND FABRICATE A NEW MEMBER TO ENSURE PROPER FIT.

MID-SIZED OR MISALIGNED HOLES IN MEMBERS SHALL NOT BE ENLARGED BY BURNING OR BY THE USE OF DRIFT PINS.

FABRICATED ITEMS SHALL NOT BE COCKED OUT OF ALIGNMENT, REDRILLED, RESHAPED OR FORCE FIT.

MISFITS AT ANCHOR BOLTS

WHERE MISALIGNMENT BETWEEN ANCHOR BOLTS AND BOLT HOLES IN STEEL MEMBERS ARE ENCOUNTERED, THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED. THE CONTRACTOR SHALL SUBMIT A METHOD TO REMEDY THE MISALIGNMENT FOR REVIEW BY THE ENGINEER.

IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO PLACE ANCHOR BOLTS OR OTHER ANCHORING DEVICES ACCURATELY AND TO MAKE ANY SURFACES WHICH BEAR AGAINST STRUCTURAL ITEMS SMOOTH AND TRUE TO LEVEL TO PRECLUDE THE NECESSITY OF ANY SPRINGING, REDRILLING OR RESHAPING.

GAS CUTTING

DO NOT USE GAS CUTTING TORCHES IN THE FIELD FOR CORRECTING FABRICATION ERRORS IN THE STRUCTURAL FRAMING, EXCEPT ON SECONDARY MEMBERS WHICH ARE NOT UNDER STRESS AND WILL BE CONCEALED IN THE FINISHED STRUCTURE AND WHEN APPROVED BY THE ENGINEER. FINISH GAS-CUT SECTIONS EQUAL TO A SHEARED APPEARANCE.

REVISION		DATE		COMMENTS	

PREPARED UNDER THE DIRECT SUPERVISION OF:

CARLOS BELTRAN, P.E.
DATE: 6/2/23

69121 R.C.E. No.
06/30/24 REG. EXP.

Dynamic CONSULTING ENGINEERS

CIVIL ENGINEERING - LAND SURVEYING - CONSTRUCTION MANAGEMENT
2415 IMPERIAL BUSINESS PARK DRIVE, SUITE B., IMPERIAL CA, 92251
TEL. (760) 545-0162 FAX (760) 545-0163

PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL

JOHN GAY, P.E.
DATE: 6/6/23

APPROVED BY THE COUNTY OF IMPERIAL:

62028 R.C.E. No.
09/30/23 REG. EXP.

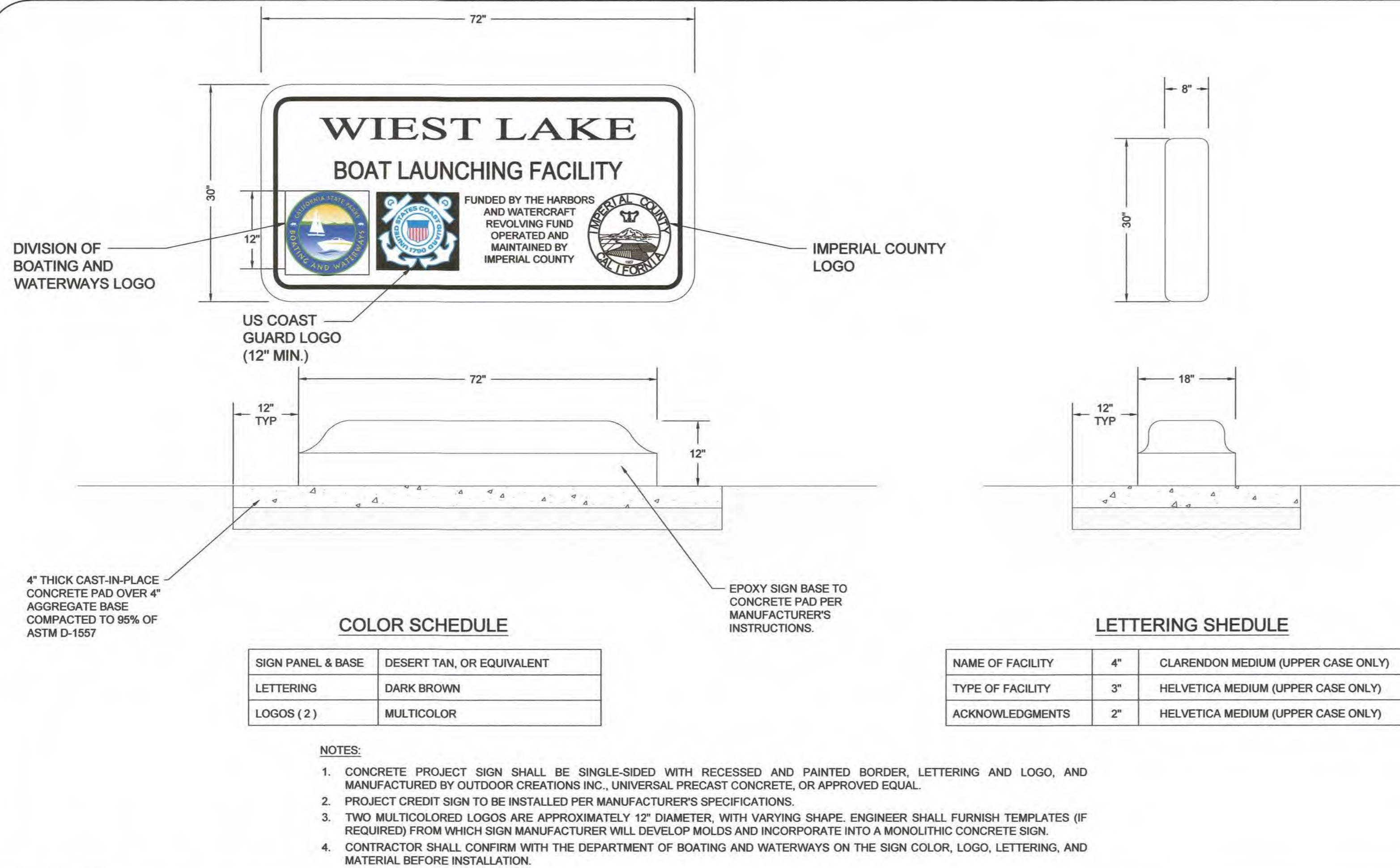
DATE	6/2/2023
DRAWN	DB
SCALE	AS SHOWN
CHECKED	CB

COMMUNITY AND ECONOMIC DEVELOPMENT

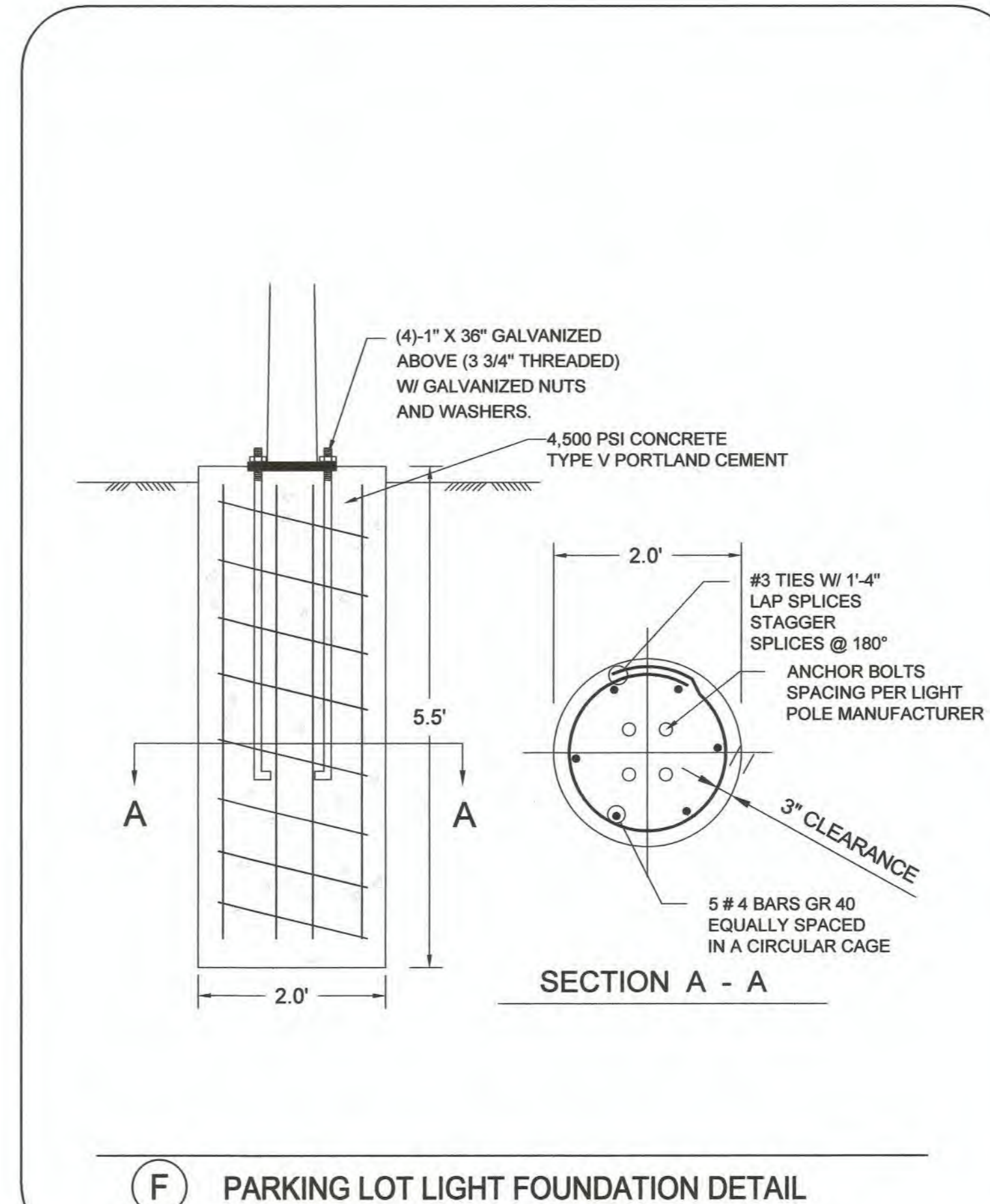
IMPROVEMENTS FOR THE WIEST LAKE BOAT LAUNCHING FACILITY PROJECT

SHADE STRUCTURE SPECIFICATIONS

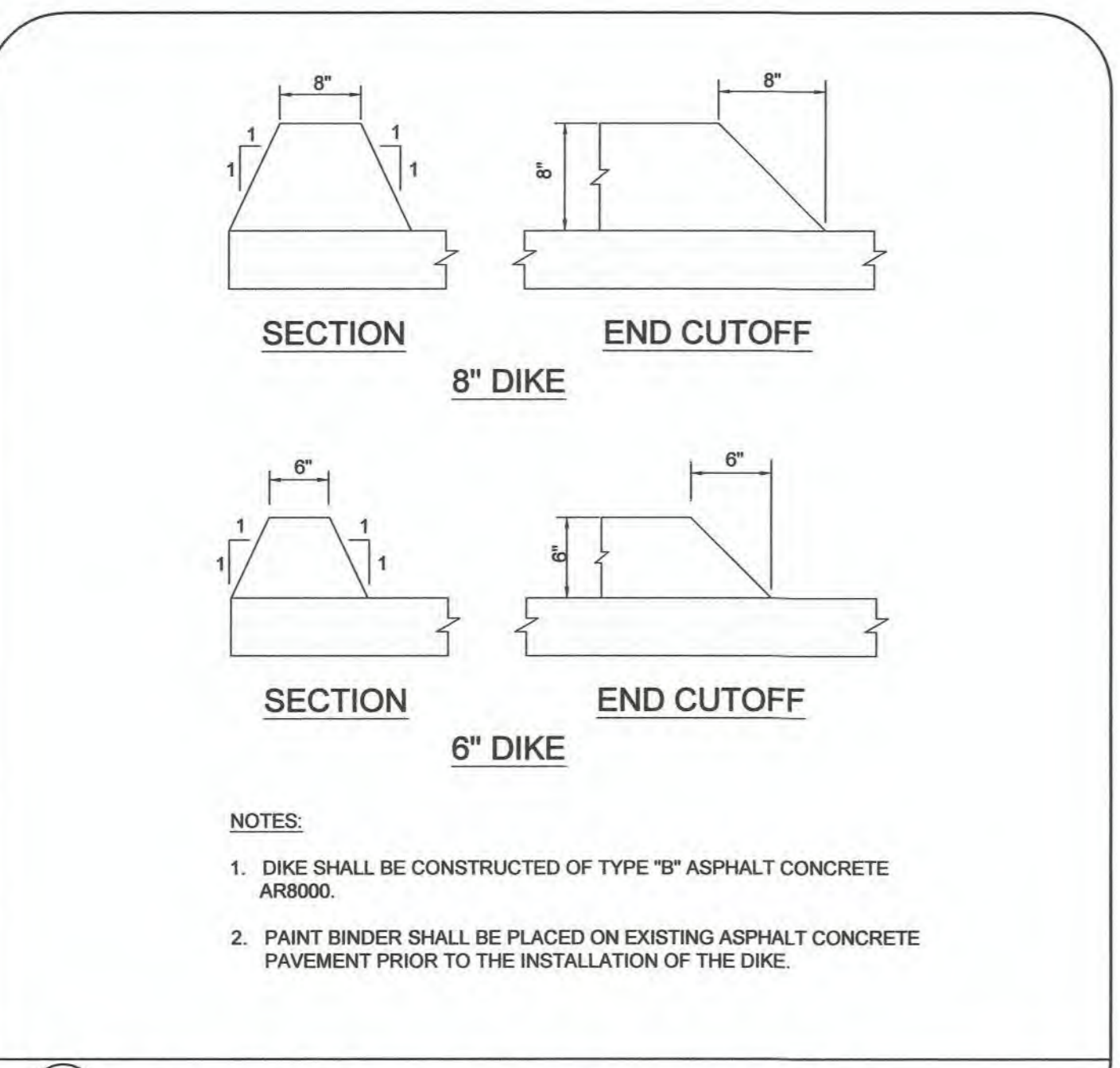
SHEET 13 OF 26



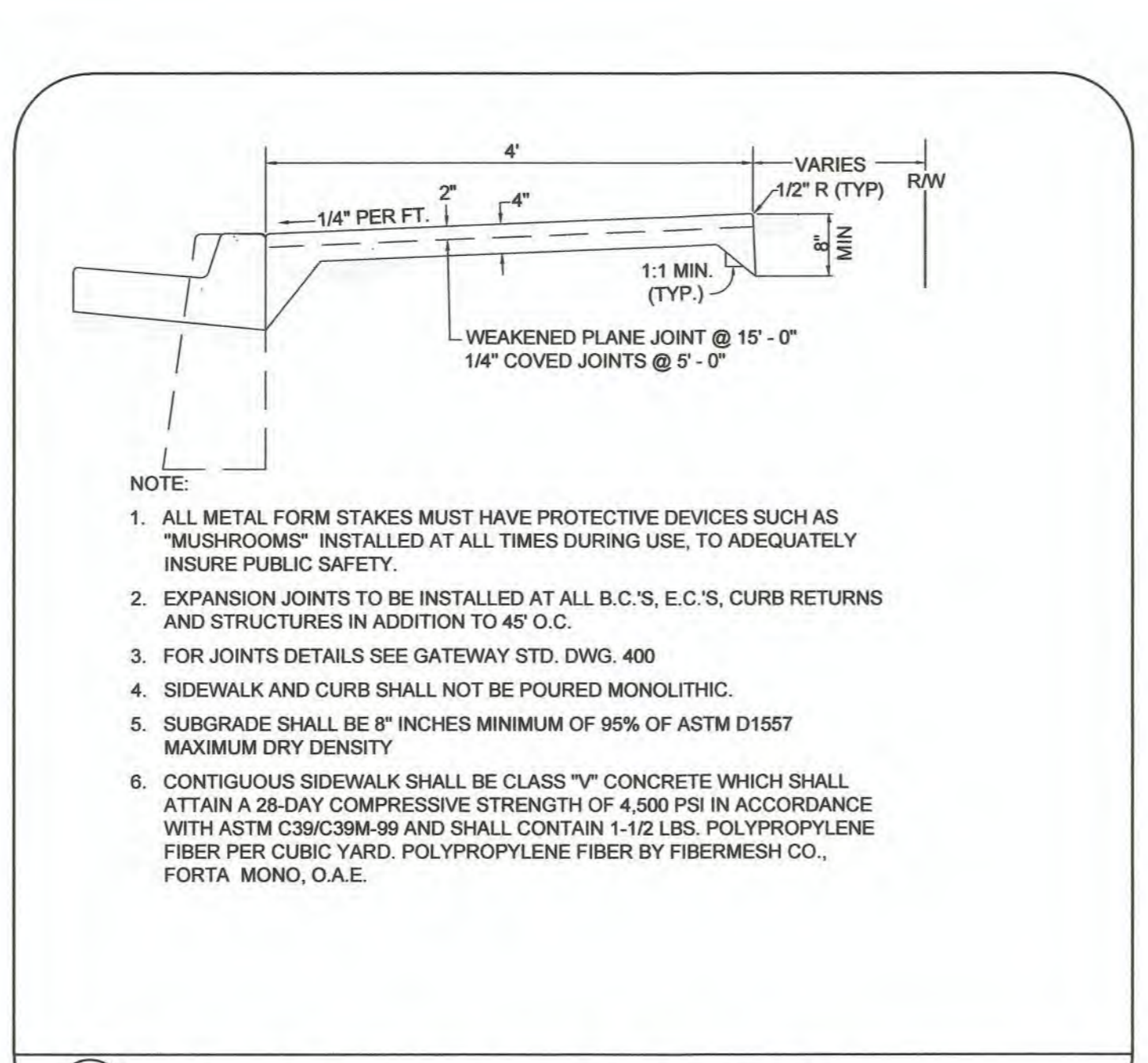
(A) SIGN NAME DETAIL



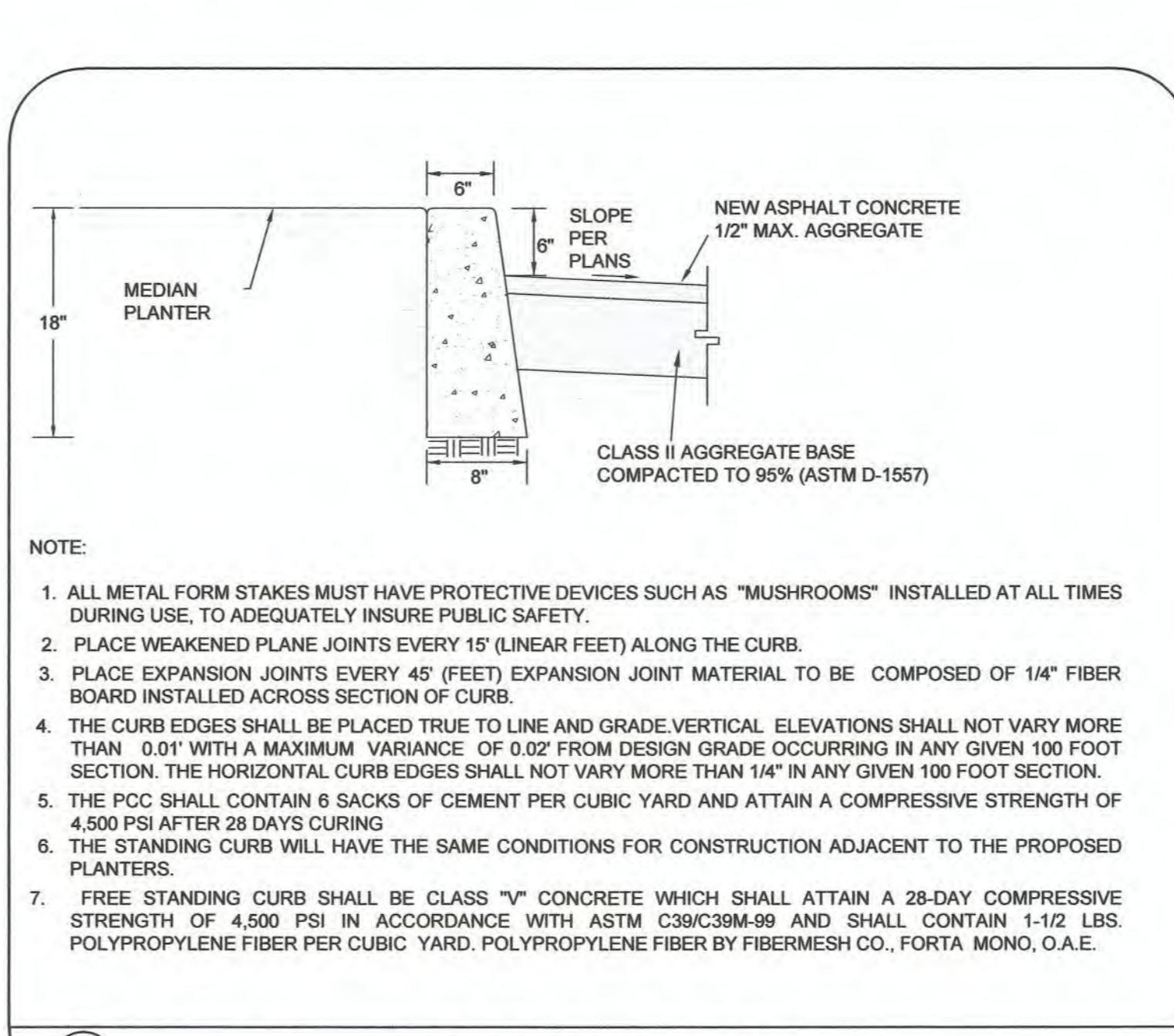
(F) PARKING LOT LIGHT FOUNDATION DETAIL



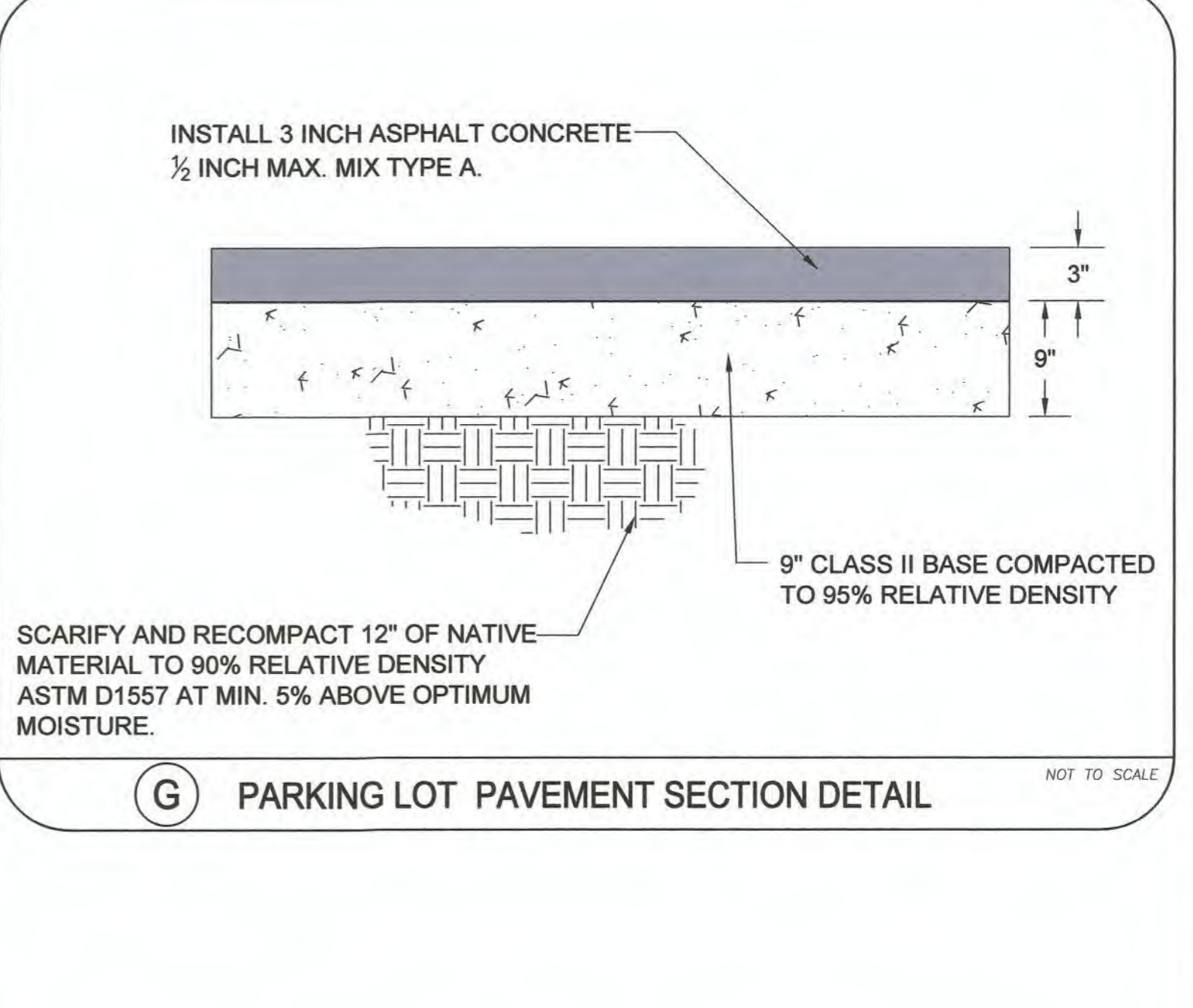
(D) ASPHALT CONCRETE DIKE DETAIL No 403



(E) CONTIGUOUS SIDEWALK DETAIL No 420



(C) FREE STANDING CURB DETAIL No 427



REVISION	DATE	COMMENTS

PREPARED UNDER THE DIRECT SUPERVISION OF:

CARLOS BELTRAN
No. 69121
EXP 6-30-24
CIVIL ENGINEER
STATE OF CALIFORNIA

CARLOS BELTRAN, P.E.
6/2/23
DATE

69121
R.C.E. No.
06/30/24
REG. EXP.

Dynamic CONSULTING ENGINEERS

CIVIL ENGINEERING - LAND SURVEYING - CONSTRUCTION MANAGEMENT
2415 IMPERIAL BUSINESS PARK DRIVE, SUITE B.,
IMPERIAL, CA. 92251
TEL. (760) 545-0162 FAX (760) 545-0163

COUNTY OF IMPERIAL
PUBLIC WORKS DEPARTMENT

APPROVED BY THE COUNTY OF IMPERIAL:

JOHN GAY
No. 62028
EXP 9-30-23
CIVIL ENGINEER
STATE OF CALIFORNIA

John Gay
JOHN GAY, P.E.
PUBLIC WORKS DIRECTOR
6/6/23
DATE

62028
R.C.E. No.
09/30/23
REG. EXP.

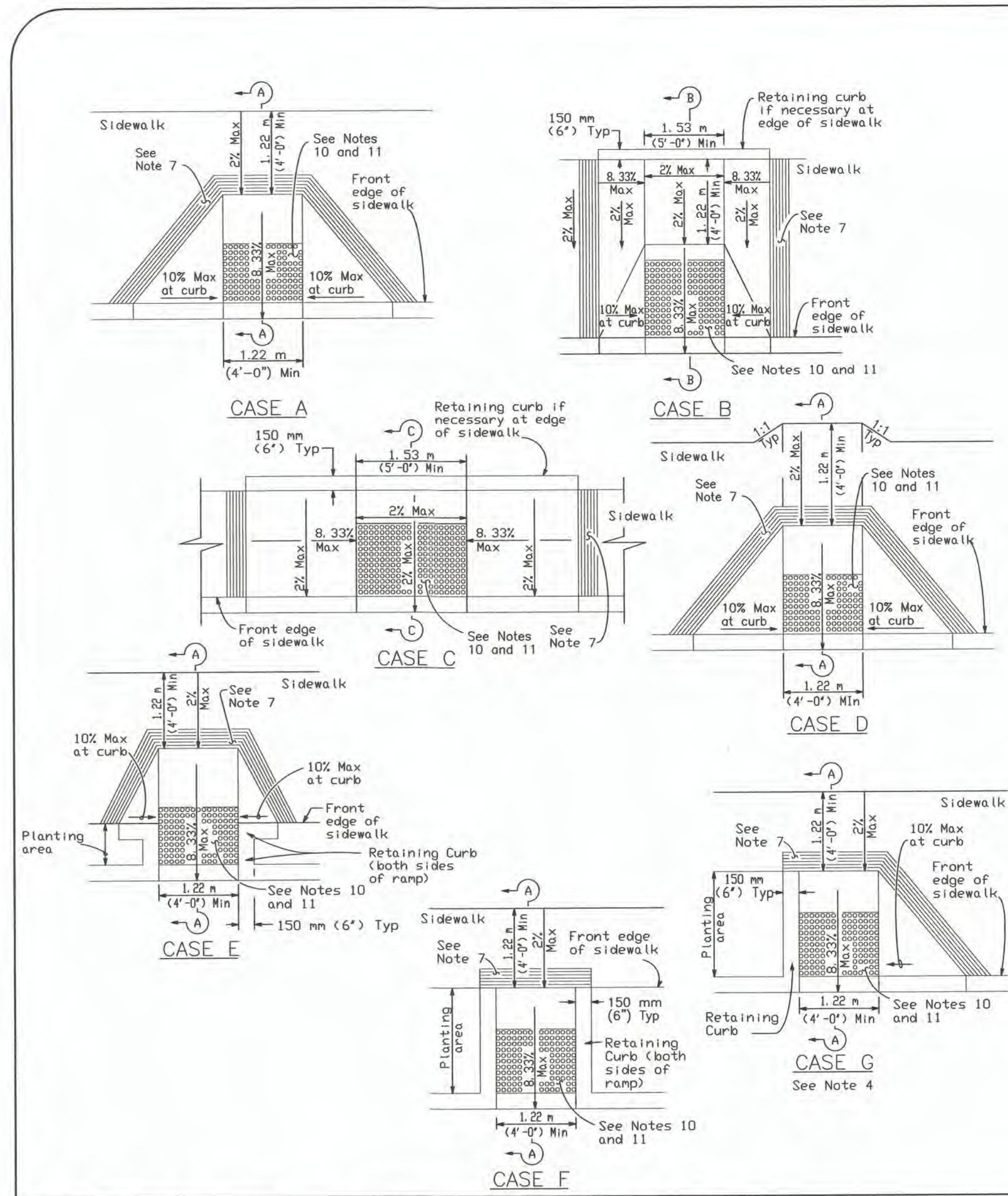
DATE	6/2/2023
DRAWN	DB
SCALE	AS SHOWN
CHECKED	CB

COMMUNITY AND ECONOMIC DEVELOPMENT

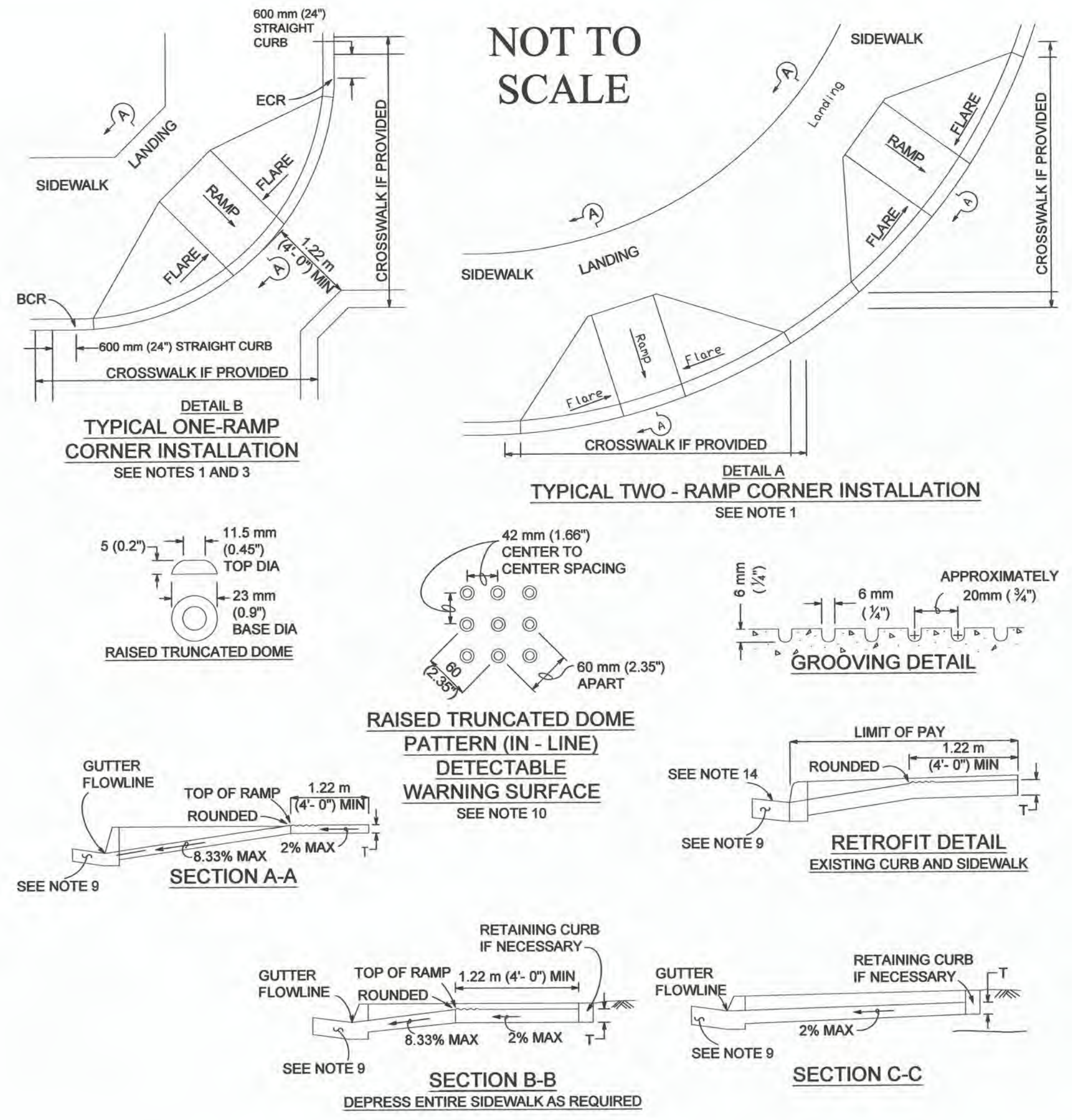
IMPROVEMENTS FOR THE WIEST LAKE BOAT LAUNCHING FACILITY PROJECT

DETAILS

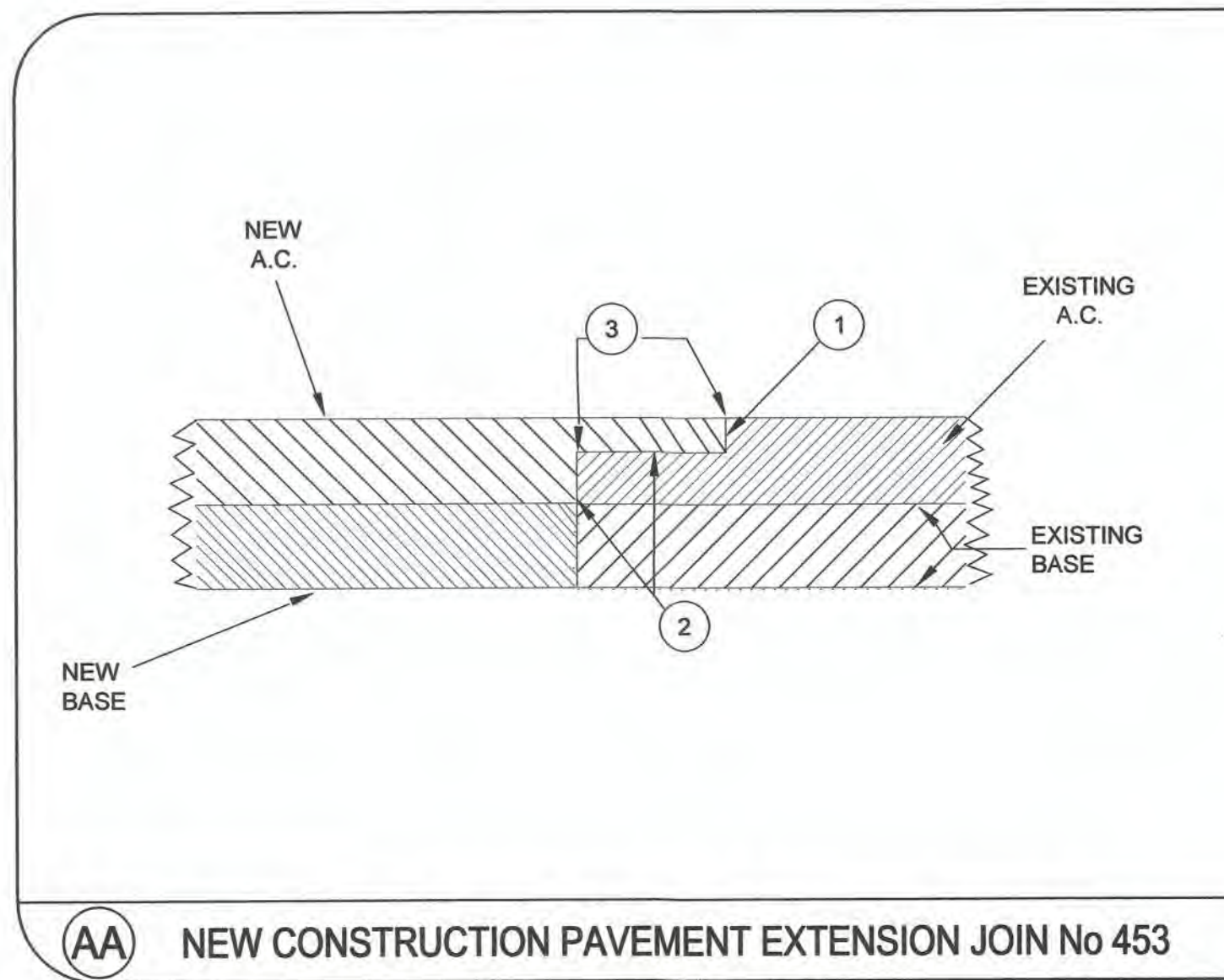
SHEET 14 OF 26



H PEDESTRIAN RAMP AND CURB RETURN DETAIL No 414

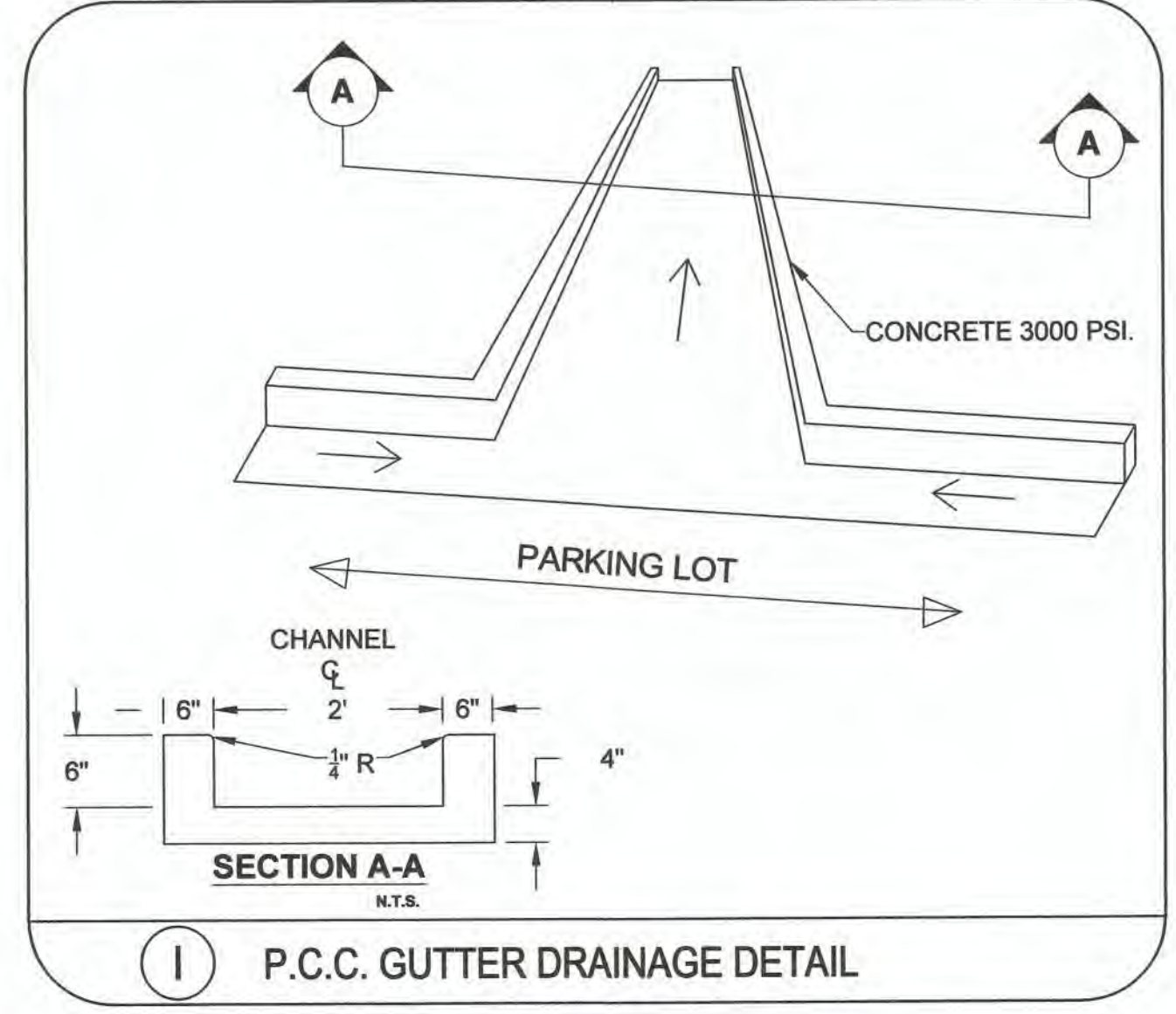


- NOTES:**
- AS SITE CONDITIONS DICTATE, CASE A THROUGH CASE G CURB RAMPS MAY BE USED FOR CORNER INSTALLATIONS SIMILAR TO THOSE SHOWN IN DETAIL A AND DETAIL B. THE CASE OF CURB RAMPS USED IN DETAIL A DO NOT HAVE TO BE THE SAME. CASE A THROUGH THE SAME CASE G CURB RAMPS ALSO MAY BE USED AT MID BLOCK LOCATIONS, ON SITE CONDITIONS DICTATE.
 - IF DISTANCE FROM CURB TO BACK OF SIDEWALK IS TOO SHORT TO ACCOMMODATE RAMP AND 1.22 M (4'-0") PLATFORM (LANDING) AS SHOWN IN CASE A, THE SIDEWALK MAY BE DEPRESSED LONGITUDINALLY AS IN CASE B, OR C OR MAY BE WIDENED AS IN CASE D.
 - WHEN RAMP IS LOCATED IN CENTER OF CURB RETURN, CROSSWALK CONFIGURATION MUST BE SIMILAR TO THAT SHOWN FOR DETAIL B.
 - AS SITE CONDITIONS DICTATE, THE RETAINING CURB SIDE AND THE FLARED SIDE OF THE CASE G RAMP SHALL BE CONSTRUCTED IN REVERSED POSITION.
 - IF LOCATED ON A CURVE, THE SIDES OF THE RAMP NEED NOT BE PARALLEL, BUT THE MINIMUM WIDTH OF THE RAMP SHALL BE 1.22 M (4'-0").
 - SIDE SLOPE OF RAMP FLARES VARY UNIFORMLY FROM A MAXIMUM OF 10% AT CURB TO CONFORM WITH LONGITUDINAL SIDEWALK SLOPE ADJACENT TO TOP OF THE RAMP, EXCEPT IN CASE C AND CASE F.
 - THE RAMP SHALL HAVE A 12" WIDE BORDER WITH 1/4" GROOVES APPROXIMATELY 3/4" ON CENTER. SEE GROOVING DETAIL.
 - TRANSITIONS FROM RAMPS TO WALKS, GUTTERS OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES.
 - MAXIMUM SLOPES OF ADJOINING GUTTERS, THE ROAD SURFACE IMMEDIATELY ADJACENT TO THE CURB RAMP AND CONTINUOUS PASSAGE TO THE CURB RAMP SHALL NOT EXCEED 5 PERCENT WITHIN 1.22 M (4'-0") OF THE TOP OR BOTTOM OF THE CURB RAMP.
 - CURB RAMPS SHALL HAVE A DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH AND 914 MM (3'-0") DEPTH OF THE RAMP. DETECTABLE WARNING SURFACES SHALL CONFORM TO THE DETAILS 5 ON THIS PLAN AND THE REQUIREMENTS IN THE SPECIAL PROVISIONS. INSTALLATION OF E-Z SET POLYMER CONCRETE PANEL IN LIEU OF THE RAISED TRUNCATED DOME SHALL BE DONE ACCORDING TO THE DRAWING AND SPECIFICATION OF THE MANUFACTURER. PLACEMENT MUST BE PRIOR TO SETTING OF CONCRETE.
 - THE EDGE OF THE DETECTABLE WARNING SURFACE NEAREST THE STREET SHALL BE BETWEEN 150 MM (6") AND 205 MM (8") FROM THE GUTTER FLOWLINE.
 - UTILITY PULL BOXES, MANHOLES, VAULTS AND ALL OTHER UTILITY FACILITIES WITHIN THE BOUNDARIES OF THE CURB RAMP WILL BE RELOCATED OR ADJUSTED TO GRADE BY THE OWNER PRIOR TO, OR IN CONJUNCTION WITH, CURB RAMP CONSTRUCTION.
 - ACCESS RAMP SHALL BE CONSTRUCTED WITH 5" THICK 4000 PSI PORTLAND CEMENT CONCRETE OVER CLASS 2 AGG. BASE OR PIT RUN GRAVEL SAND W/SAND EQUIVALENT >30. (FOR LEVELING PURPOSES).
 - RAMPS LOCATED OTHER THAN SHOWN SHALL BE APPROVED BY THE COUNTY ENGINEER.
 - SUBGRADE (8" MINIMUM) TO BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY (ASTM D1557) AND MAINTAIN A MOISTURE CONTENT OF 18% (+/- 2%) FOR CLAY SOILS ONLY FOR ALL LOCATIONS UNDERNEATH CONCRETE STRUCTURES.
 - PEDESTRIAN RAMP AND CURB RETURN SHALL BE CLASS "3" CONCRETE WHICH SHALL ATTAIN A 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI IN ACCORDANCE WITH ASTM C39/C39M-99 AND SHALL CONTAIN 1-1/2 LBS. POLYPROPYLENE FIBER PER CUBIC YARD. POLYPROPYLENE FIBER BY FIBERMESH CO., FORTA MONO, O.A.E.

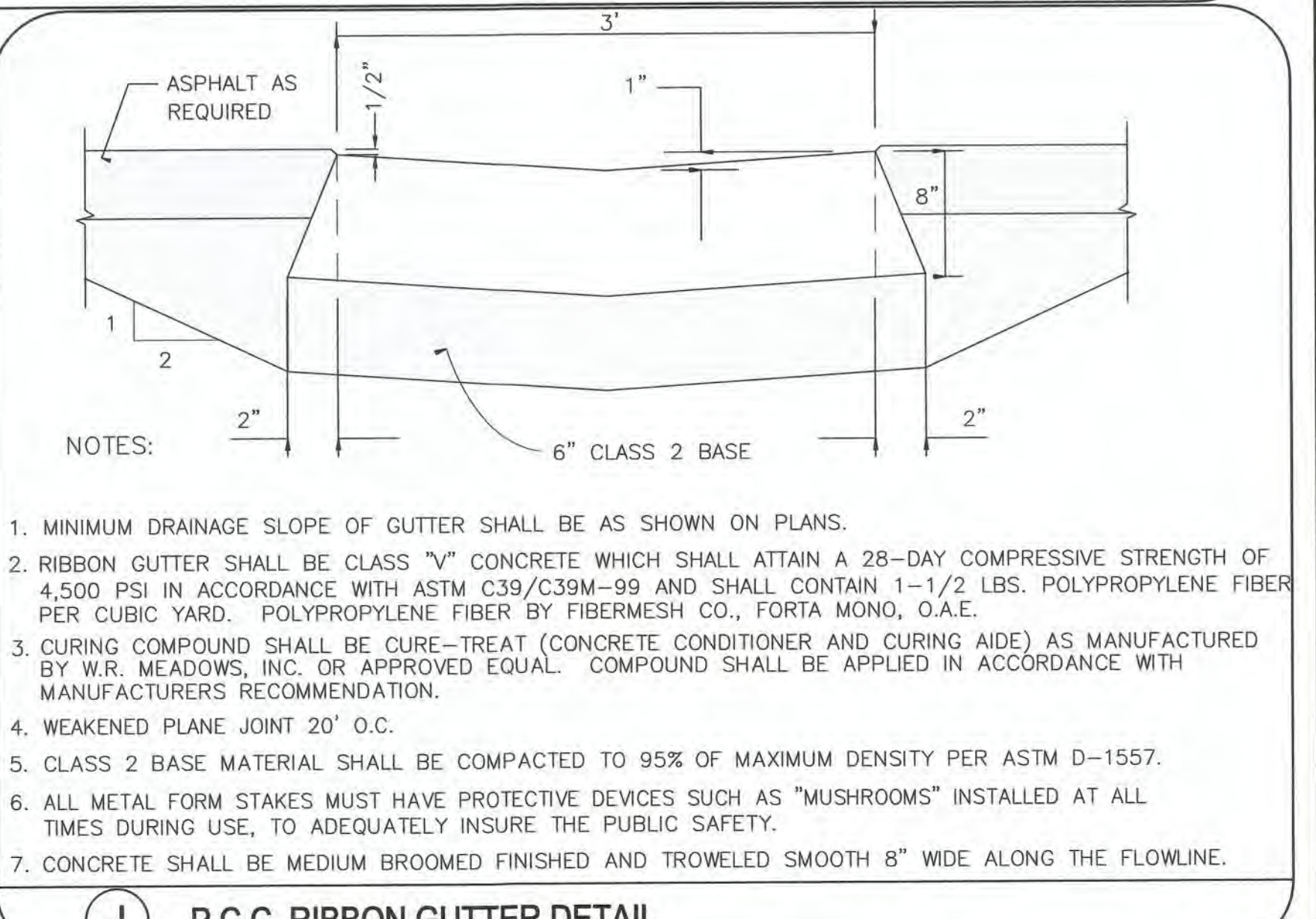


AA NEW CONSTRUCTION PAVEMENT EXTENSION JOIN No 453

- NOTES:**
- GRIND 2' WIDE X 0.12' DEEP HEADER FULL LENGTH OF JOINT
 - TACK COAT ENTIRE SURFACE WITH AR 1000 PAVING ASPHALT AT AN APPROXIMATE RATE OF 0.05 GALLON PER SQUARE YARD OR GRADE SS-1H EMULSIFIED ASPHALT AT AN APPROXIMATE RATE OF 0.05 TO 0.10 GALLON PER SQUARE YARD SHALL BE UNIFORMLY APPLIED UPON THE EXISTING PAVEMENT PRECEDING THE PLACEMENT OF THE ASPHALT CONCRETE. THE SURFACE SHALL BE FREE OF WATER, FOREIGN MATERIAL, OR DUST, WHEN THE TACKCOAT IS APPLIED.
 - OVERLAY HEADER AREA TO MATCH NEW & EXISTING A.C. SURFACES
 - WHERE PAVEMENT IS INSTALLED ON A PROJECT ON MORE THAN ONE DAY, A HEADER (AS HERE IN DESCRIBED) MUST BE PROVIDED AT THE CONSTRUCTION JOINT.



I P.C.C. GUTTER DRAINAGE DETAIL



J P.C.C. RIBBON GUTTER DETAIL

- NOTES:**
- MINIMUM DRAINAGE SLOPE OF GUTTER SHALL BE AS SHOWN ON PLANS.
 - RIBBON GUTTER SHALL BE CLASS "V" CONCRETE WHICH SHALL ATTAIN A 28-DAY COMPRESSIVE STRENGTH OF 4,500 PSI IN ACCORDANCE WITH ASTM C39/C39M-99 AND SHALL CONTAIN 1-1/2 LBS. POLYPROPYLENE FIBER PER CUBIC YARD. POLYPROPYLENE FIBER BY FIBERMESH CO., FORTA MONO, O.A.E.
 - CURING COMPOUND SHALL BE CURE-TREAT (CONCRETE CONDITIONER AND CURING AIDE) AS MANUFACTURED BY W.R. MEADOWS, INC. OR APPROVED EQUAL. COMPOUND SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION.
 - WEAKENED PLANE JOINT 20' O.C.
 - CLASS 2 BASE MATERIAL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY PER ASTM D-1557.
 - ALL METAL FORM STAKES MUST HAVE PROTECTIVE DEVICES SUCH AS "MUSHROOMS" INSTALLED AT ALL TIMES DURING USE, TO ADEQUATELY INSURE THE PUBLIC SAFETY.
 - CONCRETE SHALL BE MEDIUM BROOMED FINISHED AND TROWELED SMOOTH 8" WIDE ALONG THE FLOWLINE.

REVISION	DATE	COMMENTS

PREPARED UNDER THE DIRECT SUPERVISION OF:

CARLOS BELTRAN
No. 69121
EXP 6-30-24
CIVIL
STATE OF CALIFORNIA

CARLOS BELTRAN, P.E.
69121
R.C.E. No.
06/30/24
REG. EXP.

Dynamic CONSULTING ENGINEERS

CIVIL ENGINEERING - LAND SURVEYING - CONSTRUCTION MANAGEMENT
2415 IMPERIAL BUSINESS PARK DRIVE, SUITE B.,
IMPERIAL, CA, 92251
TEL. (760) 545-0162 FAX (760) 545-0163

PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL

APPROVED BY THE COUNTY OF IMPERIAL:

JOHN GAY
No. 62028
EXP 9-30-23
CIVIL
STATE OF CALIFORNIA

JOHN GAY, P.E.
PUBLIC WORKS DIRECTOR
6/6/23
DATE

62028
R.C.E. No.
09/30/23
REG. EXP.

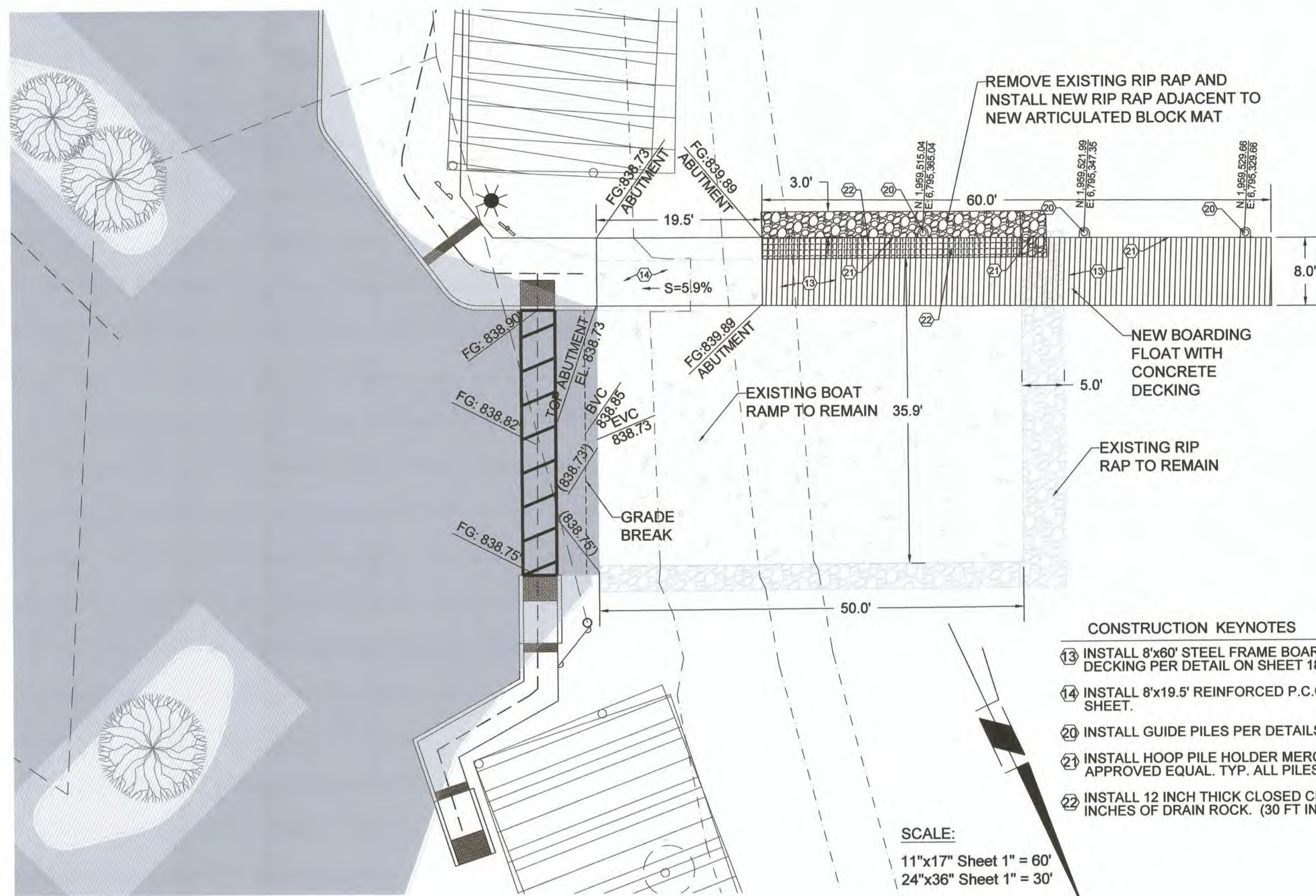
DATE: 6/2/2023
DRAWN: DB
SCALE: AS SHOWN
CHECKED: CB

COMMUNITY AND ECONOMIC DEVELOPMENT

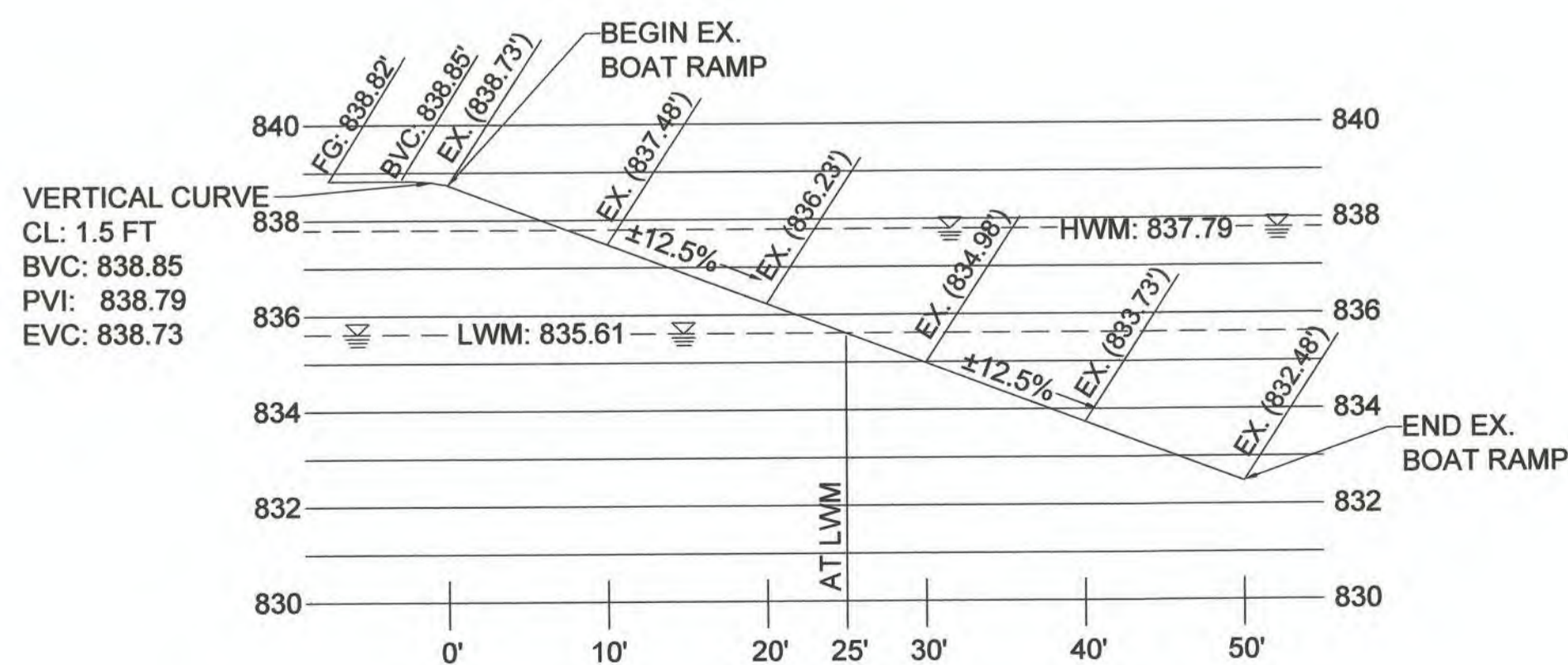
IMPROVEMENTS FOR THE WIEST LAKE BOAT LAUNCHING FACILITY PROJECT

DETAILS

SHEET 15 OF 26



BOARDING FLOAT SITE PLAN

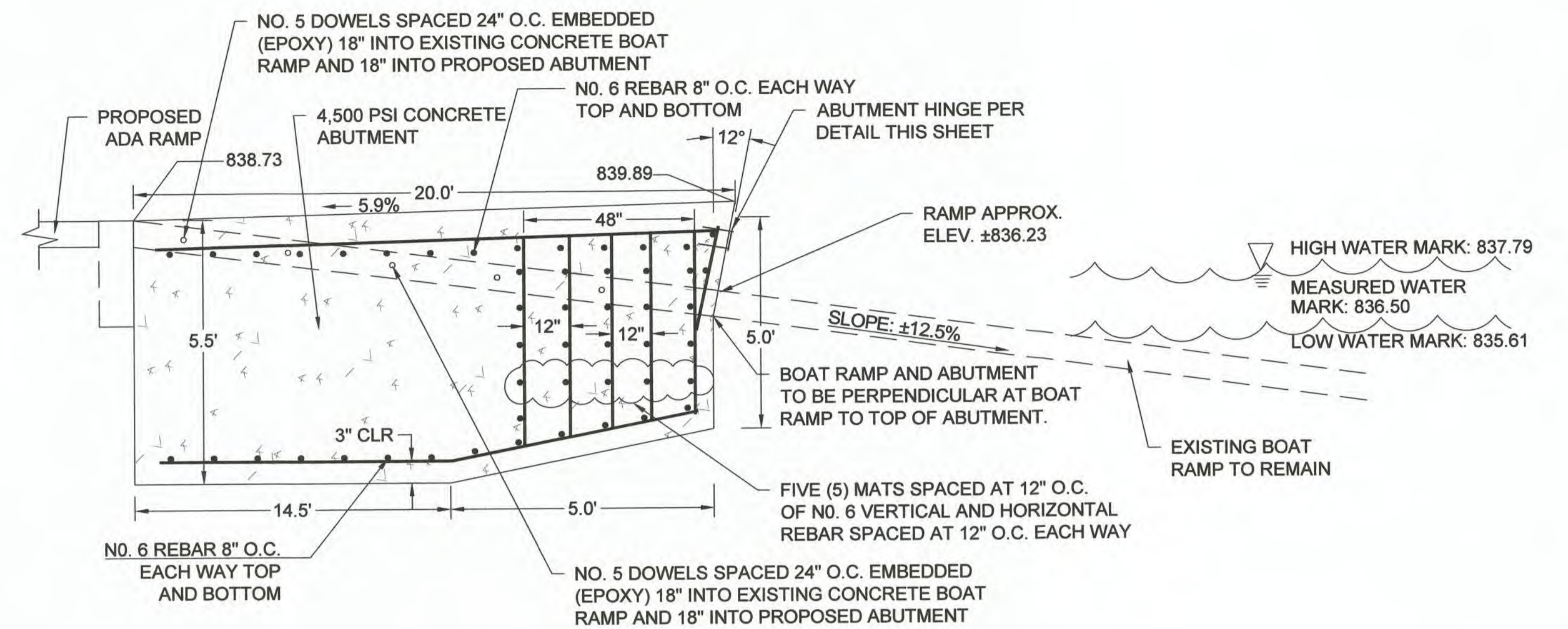


EX. RAMP PROFILE

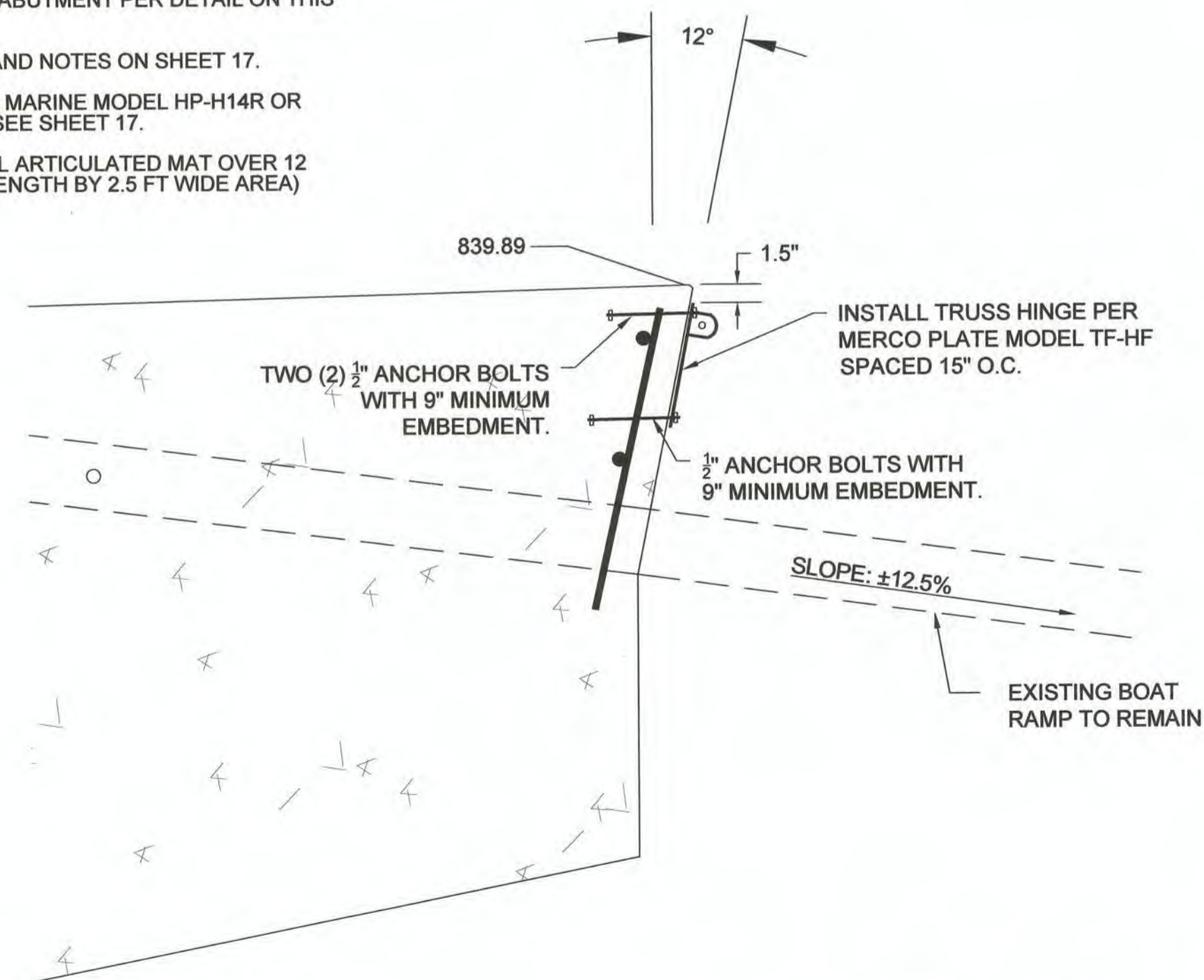
CONSTRUCTION KEYNOTES

- 13 INSTALL 8'x60' STEEL FRAME BOARDING FLOAT SYSTEM WITH CONCRETE DECKING PER DETAIL ON SHEET 18.
- 14 INSTALL 8'x19.5' REINFORCED P.C.C. ABUTMENT PER DETAIL ON THIS SHEET.
- 20 INSTALL GUIDE PILES PER DETAILS AND NOTES ON SHEET 17.
- 21 INSTALL HOOP PILE HOLDER MERCOR MARINE MODEL HP-H14R OR APPROVED EQUAL. TYP. ALL PILES. SEE SHEET 17.
- 22 INSTALL 12 INCH THICK CLOSED CELL ARTICULATED MAT OVER 12 INCHES OF DRAIN ROCK. (30 FT IN LENGTH BY 2.5 FT WIDE AREA)

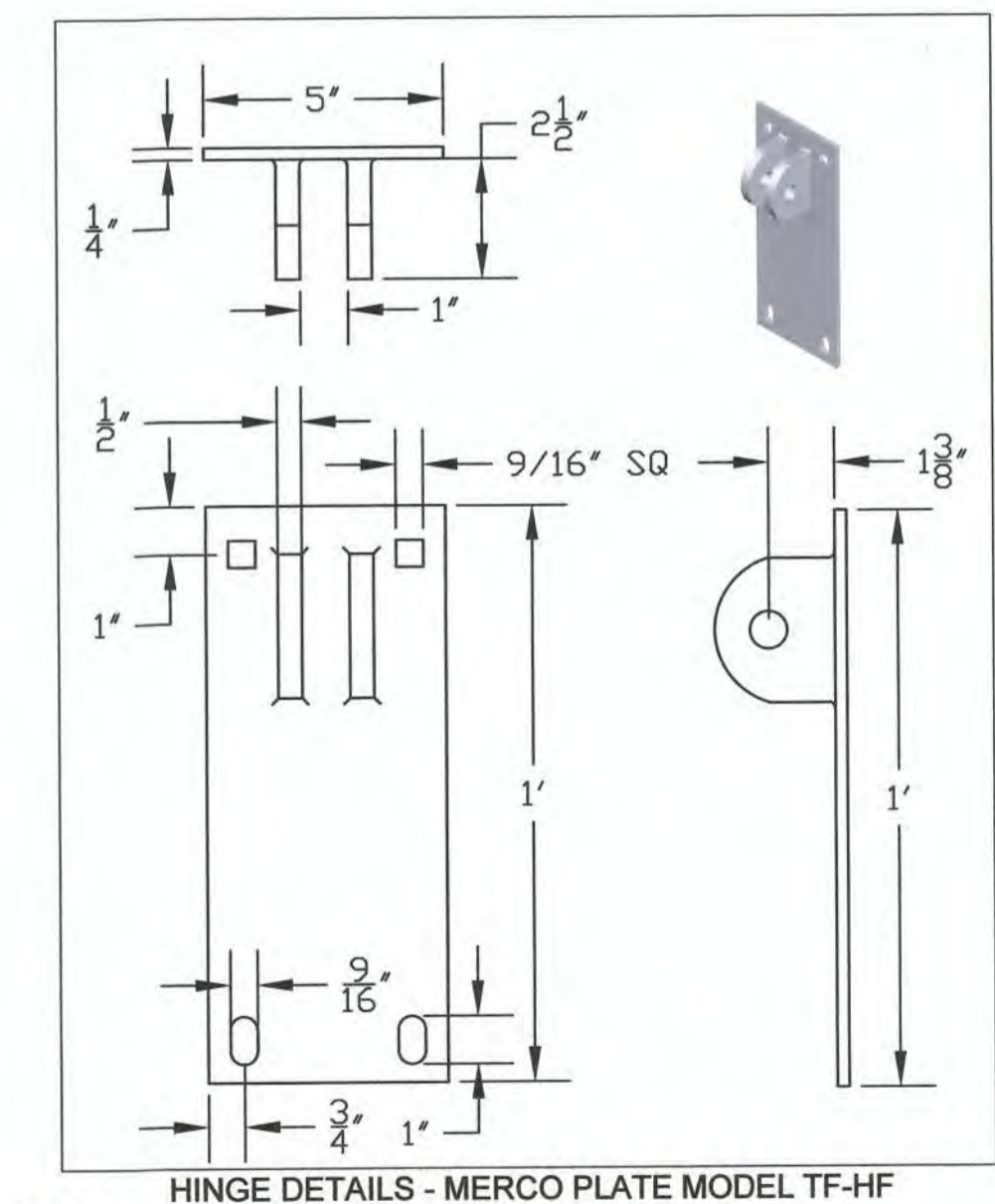
SCALE:
11"x17" Sheet 1" = 60'
24"x36" Sheet 1" = 30'



ABUTMENT DETAIL



ABUTMENT HINGE DETAIL



REVISION	DATE	COMMENTS

PREPARED UNDER THE DIRECT SUPERVISION OF:

CARLOS BELTRAN, P.E.

6/6/23
DATE

69121
R.C.E. No.

06/30/24
REG. EXP.

Dynamic CONSULTING ENGINEERS

CIVIL ENGINEERING - LAND SURVEYING - CONSTRUCTION MANAGEMENT
2415 IMPERIAL BUSINESS PARK DRIVE, SUITE B.,
IMPERIAL, CA 92251
TEL. (760) 545-0182 FAX (760) 545-0163

PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL

APPROVED BY THE COUNTY OF IMPERIAL:

John Gay, P.E.
PUBLIC WORKS DIRECTOR

6/6/23
DATE

62028
R.C.E. No.

09/30/23
REG. EXP.

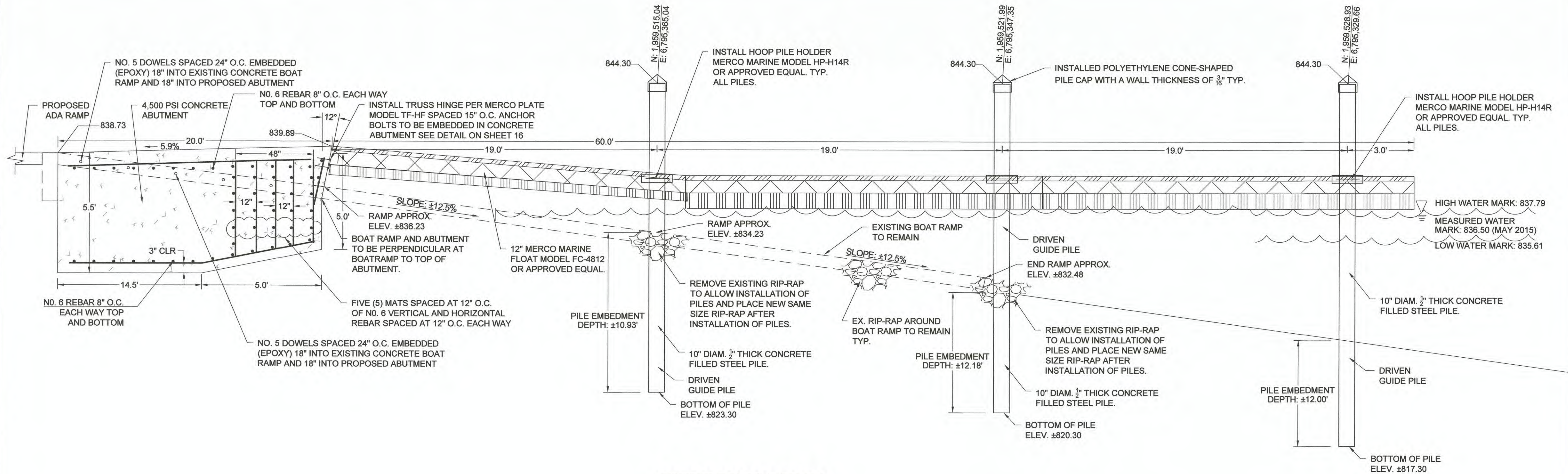
DATE	6/2/2023
DRAWN	DB
SCALE	AS SHOWN
CHECKED	CB

COMMUNITY AND ECONOMIC DEVELOPMENT

IMPROVEMENTS FOR THE WIEST LAKE BOAT LAUNCHING FACILITY PROJECT

BOARDING FLOAT SITE PLAN

SHEET 16 OF 26



GUIDE PILES DETAIL

GUIDE PILES AND PILE YOKES:

PILE SHALL HAVE A ROUND CROSS SECTIONAL SHAPE. PILE SHALL BE 3/4" THICK MADE OF STEEL FILLED WITH CONCRETE.

AFTER PILES HAVE BEEN DRIVEN AND CUT OFF TO THE PROPER ELEVATION, THEY SHOULD BE CAPPED WITH FIBERGLASS OR POLYETHYLENE CONE-SHAPED WHITE PILE CAPS WITH A WALL THICKNESS OF NOT LESS THAN 1/8".

THE PILE CUTOFF ELEVATION SHALL BE HIGH WATER PLUS 6.5'.

IF STEEL PILES ARE USED, THE CONTRACTOR SHALL PROVIDE THE PROPER ALLOY AND PILE COATING TO INSURE A MINIMUM 20 YEAR PILE SERVICE LIFE.

IN APPLICATIONS WHERE STEEL PILES AND STEEL PILE YOKES ARE USED TOGETHER, IT WILL BE NECESSARY TO ATTACH UHMW RUB STRIPS TO EITHER THE PILES OR TO THE YOKES TO PREVENT ABRASIVE WEAR, AND TO MINIMIZE THE BANGING NOISE THAT WILL OCCUR BECAUSE OF WIND AND WAVES.

PILES ARE TO BE DRIVEN STRAIGHT AND PLUMB WITHIN A TOLERANCE OF 1" IN 10'.

PILE YOKES:

- EXTERIOR YOKES SHOULD ONLY BE USED WHERE THEY WILL NOT INTERFERE WITH THE SAFE AND CONVENIENT PASSAGE OF BOATS AND TRAILERS. THE YOKES MUST BE DESIGNED TO ELIMINATE ALL SHARP CORNERS AND EDGES WHICH COULD CAUSE PERSONAL INJURY, OR PUNCTURE THE HULL OF A BOAT ON IMPACT.
- INTERNAL YOKES SHOULD ONLY BE USED WHERE THEY WILL NOT INTERFERE WITH THE SAFE AND CONVENIENT PASSAGE OF PEDESTRIANS ON THE BOARDING FLOAT.
- IT IS RECOMMENDED THAT ULTRA HIGH MOLECULAR WEIGHT (UHMW) POLYETHYLENE BE USED ON PILE YOKES AS WEAR STRIPS. STRIPS 1" OR THICKER.
- ADEQUATE CAPACITY MUST BE PROVIDED INSIDE THE YOKE FOR THE RELATIVE MOVEMENT BETWEEN THE PILE AND YOKE. RECOMMENDED CLEARANCES BETWEEN THE PILE AND YOKE ARE 1" ALONG THE SIDES AND 4" AT EACH END.

REVISION	DATE	COMMENTS

PREPARED UNDER THE DIRECT SUPERVISION OF:

CARLOS BELTRAN, P.E.
No. 69121
EXP. 6-30-24
CIVIL
STATE OF CALIFORNIA

69121 R.C.E. No.
06/30/24 REG. EXP.
DATE: 6/2/23

Dynamic CONSULTING ENGINEERS

CIVIL ENGINEERING - LAND SURVEYING - CONSTRUCTION MANAGEMENT
2415 IMPERIAL BUSINESS PARK DRIVE, SUITE B.,
IMPERIAL, CA. 92251
TEL. (760) 545-0162 FAX (760) 545-0163

PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL

APPROVED BY THE COUNTY OF IMPERIAL:

JOHN GAY, P.E.
No. 62028
EXP. 9-30-23
CIVIL
STATE OF CALIFORNIA

JOHN GAY, P.E.
PUBLIC WORKS DIRECTOR
DATE: 6/6/23

62028 R.C.E. No.
09/30/23 REG. EXP.

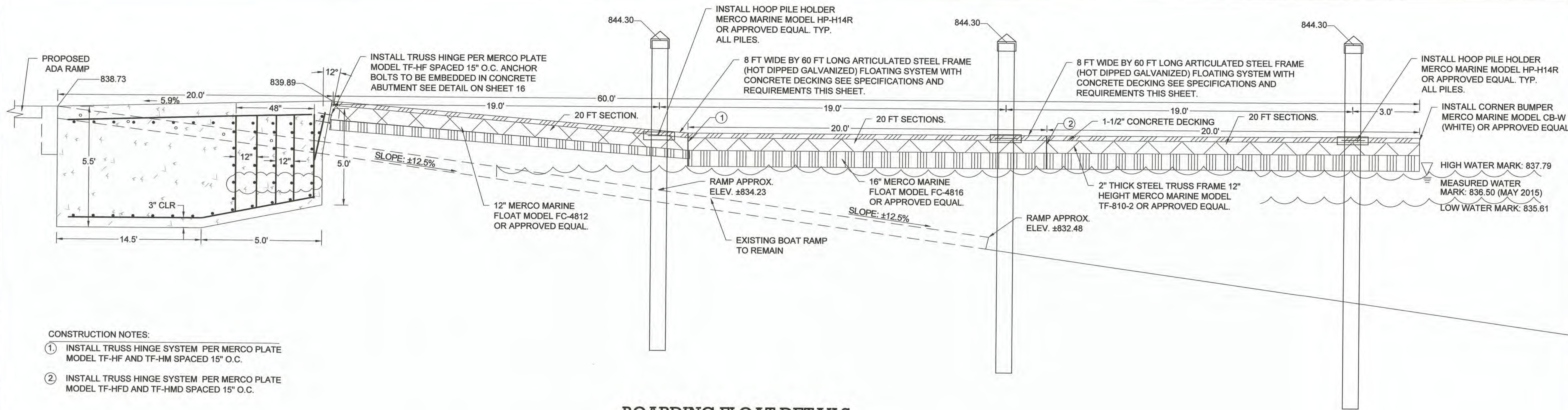
DATE	6/2/2023
DRAWN	DB
SCALE	AS SHOWN
CHECKED	CB

COMMUNITY AND ECONOMIC DEVELOPMENT

IMPROVEMENTS FOR THE WIEST LAKE BOAT LAUNCHING FACILITY PROJECT

GUIDE PILE DETAILS

SHEET 17 OF 26



CONSTRUCTION NOTES:

- ① INSTALL TRUSS HINGE SYSTEM PER MERCIO PLATE MODEL TF-HF AND TF-HM SPACED 15" O.C.
- ② INSTALL TRUSS HINGE SYSTEM PER MERCIO PLATE MODEL TF-HFD AND TF-HMD SPACED 15" O.C.

BOARDING FLOAT DETAILS

BOARDING FLOAT SYSTEM:

CONTRACTOR TO SUBMIT SHOP DRAWINGS TO COUNTY/ENGINEER (OR THIRD PARTY PLAN CHECKER) FOR REVIEW AND APPROVAL OF THE BOARDING FLOAT SYSTEM WITH THE FOLLOWING DESIGN CRITERIA AND REQUIREMENTS:

ARTICULATED BOARDING FLOAT SHALL BE 8 FT WIDE BY 60 FT LONG STEEL FRAME FLOAT (HOT DIPPED GALVANIZED) WITH CONCRETE DECKING.

MINIMUM CLEAR TRAVEL WIDTH SHOULD BE NOT LESS THAN 5'0" (60") BETWEEN CLEATS, BULL RAILS, RINGS OR OTHER MOORING HARDWARE MOUNTED ALONG THE EDGES OF THE BOARDING FLOAT, NOR SHOULD ANY PART OF THE HARDWARE BE MOUNTED MORE THAN 6" IN FROM THE EDGE OF THE BOARDING FLOAT.

IN CASES WHERE GUIDE PILES ARE LOCATED ALONG THE CENTERLINE OF THE BOARDING FLOAT, THE MINIMUM OVERALL WIDTH SHOULD BE 8'0" (96"), AND THE MINIMUM CLEAR DISTANCE BETWEEN THE FACE OF THE PILE AND THE EDGE OF THE FLOAT SHOULD BE 3'2" (38").

WHERE ARTICULATED (HINGED) BOARDING FLOATS ARE INSTALLED, THE INDIVIDUAL FLOAT SECTIONS SHOULD BE NOT MORE THAN 20' NOR LESS THAN 16' IN LENGTH WITH 20' BEING THE RECOMMENDED STANDARD.

MAXIMUM OVERALL HEIGHT OF BOARDING FLOATS SHALL NOT EXCEED 30' WHERE FLOAT SECTIONS WILL COME TO REST ON THE UPPER REACHES OF A LAUNCHING RAMP SURFACE DURING PERIODS OF LOW WATER, AND WHERE THE "RESTING" FLOAT SECTIONS ARE USED FOR PEDESTRIAN ACCESS TO FLOAT SECTIONS WHICH ARE IN THE WATER.

DESIGN CRITERIA:

DEAD LOAD ONLY (DL): BOARDING FLOATS ARE TO FLOAT LEVEL IN THE WATER WITHIN THE FOLLOWING LIMITS:
 LENGTH: 1/8" PER FOOT OVER THE LENGTH OF AN INDIVIDUAL BOARDING FLOAT SECTION, NOT TO EXCEED 1" IN 10'.
 WIDTH: 1" MAXIMUM OVER THE WIDTH OF THE BOARDING FLOAT.

UNIFORM LIVE LOAD (ULL)
 • 20 LB/SQFT STANDARD UNIFORM LIVE LOAD FOR LAUNCHING RAMP BOARDING FLOATS, IN SERVICE, IN THE WATER.

LIVE POINT LOAD (LPL): 650 LBS
 • A LIVE POINT LOAD MAY BE APPLIED AT ANY POINT ON THE BOARDING FLOAT DECK NOT CLOSER THAN 12" FROM THE EDGE OF THE FLOAT.

FREEBOARD:
 A) DEAD LOAD ONLY (DL)
 - 14" MINIMUM / 20" MAXIMUM TO TOP OF DECK.
 - 4" MINIMUM TO BOTTOM OF FENDERBOARD.

BOARDING FLOAT SYSTEM CONTINUE:

- B) DEAD LOAD PLUS UNIFORM LIVE LOAD (DL + ULL)
 - 10" MINIMUM TO TOP OF DECK.
- C) DEAD LOAD PLUS LIVE POINT LOAD (DL + LPL)
 - 13" MINIMUM TO TOP OF DECK.
- D) DEAD LOAD PLUS UNIFORM LIVE LOAD PLUS LIVE POINT LOAD (DL + ULL + LPL)
 - 8" MINIMUM TO TOP OF DECK.

BOARDING FLOATS ARE TO BE DESIGNED TO WITHSTAND WIND, WAVE, CURRENT AND IMPACT LOADINGS, APPLIED TO BOTH FLOATS AND TIED UP BOATS, THAT MAY REASONABLY OCCUR DURING THE LIFE OF THE STRUCTURE AS THE RESULT OF ITS LOCATION AND EXPOSURE. BOARDING FLOATS SHALL BE DESIGN PER THE LOADING CRITERIA STATED ON SECTION 301 OF THE CALIFORNIA DEPARTMENT OF BOATING AND WATERWAYS BOATING FACILITIES DIVISION LAYOUT, DESIGN AND CONSTRUCTION HANDBOOK.

FRAMING BOLTS SHOULD BE NOT LESS THAN 3/8" DIAMETER, AND BE EITHER HOT DIPPED GALVANIZED OR STAINLESS STEEL.

ALL FERROUS METALS USED ARE TO BE HOT-DIP GALVANIZED AFTER FABRICATION.

ALL METAL PLATES USED TO FABRICATE CLIPS, BRACKETS AND OTHER STRUCTURAL PARTS FOR BOARDING FLOATS ARE TO BE MADE FROM MATERIAL NOT LESS THAN 1/4" IN THICKNESS.

CLEATS FOR BOAT LINES SHOULD BE PROVIDED ALONG THE EDGE(S) OF BOARDING FLOATS ON 10' CENTERS.

- CLEATS SHOULD BE CAST DUCTILE IRON, 8" OR 10" IN LENGTH, HAVE A BASE NOT LESS THAN 23"x4", AND BE DESIGNED TO RECEIVE TWO (2) HEX HEAD GALVANIZED MACHINE BOLTS NOT LESS THAN 7/16" IN DIAMETER. THE BOLT HEADS SHOULD FIT FLUSH INTO RECESSES IN THE TOP OF THE CLEAT.
- CLEATS SHOULD BE HOT-DIP GALVANIZED AFTER THEY HAVE BEEN THOROUGHLY CLEANED WITH A WIRE WHEEL AND HAD ALL BURRS AND ROUGH SPOTS GROUND SMOOTH TO PREVENT CHAFING OF BOAT LINES.

LEGS OR OTHER PROTECTIVE DEVICES SHOULD BE INSTALLED TO PROTECT THE FLOTATION PONTOONS ON ALL BOARDING FLOATS THAT PERIODICALLY COME TO REST ON THE LAUNCHING RAMP SURFACE. PLASTIC PADS OF 1/2" OR THICKER ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE (UHMW) SHOULD BE ATTACHED TO THE BOTTOM OF THE LEGS TO PREVENT DAMAGE TO THE LAUNCHING RAMP SURFACE. THE THICKNESS OF THE PADS MUST BE CONSIDERED IN THE OVERALL HEIGHT OF THE BOARDING FLOATS IN ORDER TO AVOID EXCEEDING 30".

PONTOONS FOR FLOTATION SHOULD CONSIST OF A RIGID VESSEL FILLED WITH MARINE GRADE FLOTATION FOAM. THE RIGID VESSELS ARE TYPICALLY RECTANGULAR TUBS OR CIRCULAR CULVERT PIPES MADE OF POLYETHYLENE.

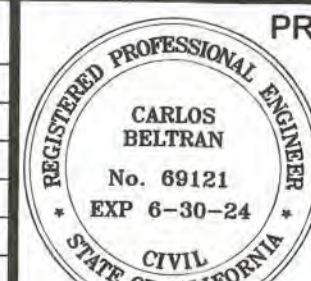
- TUBS FOR FLOTATION PONTOONS SHOULD BE BLACK IN COLOR, HAVE A MINIMUM WALL THICKNESS OF 0.20", AND BE MANUFACTURED OF CROSS LINKED ROTATIONALLY MOLDED POLYETHYLENE (CL-200). THE TOPS OF THE TUBS MUST BE SEALED TO PREVENT WATER FROM ENTERING THE PONTOONS AND FILLING.

BOARDING FLOAT SYSTEM CONTINUE:

HINGES USED TO CONNECT BOARDING FLOATS TO AN ABUTMENT SHOULD BE HOT DIPPED GALVANIZED SCHEDULE 80 STEEL PIPE. THE HINGES SHOULD BE CONTINUOUS, WITHOUT ANY GAPS, AND CUT FLUSH WITH OR SLIGHTLY INSIDE THE ALIGNMENT OF THE SIDES OF THE ABUTMENT AND THE BOARDING FLOATS. THE TOP SURFACE OF THE BARREL OF THE HINGE SHOULD BE FLUSH WITH THE TOP OF BOTH THE ABUTMENT AND THE DECK OF THE BOARDING FLOATS.

REVISION	DATE	COMMENTS

PREPARED UNDER THE DIRECT SUPERVISION OF:

 CARLOS BELTRAN, P.E.
 DATE: 6/2/22

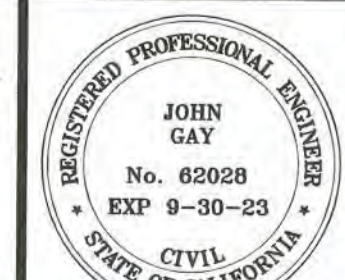
69121 R.C.E. No.
 06/30/24 REG. EXP.

Dynamic CONSULTING ENGINEERS

CIVIL ENGINEERING - LAND SURVEYING - CONSTRUCTION MANAGEMENT
 2415 IMPERIAL BUSINESS PARK DRIVE, SUITE B.,
 IMPERIAL, CA. 92251
 TEL. (760) 545-0162 FAX (760) 545-0163

 PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL

APPROVED BY THE COUNTY OF IMPERIAL:

 JOHN GAY
 JOHN GAY, P.E.
 PUBLIC WORKS DIRECTOR
 DATE: 6/6/23

62028 R.C.E. No.
 09/30/23 REG. EXP.

DATE: 6/2/2023
 DRAWN: DB
 SCALE: AS SHOWN
 CHECKED: CB



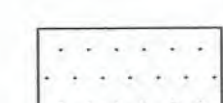


COMMUNITY AND ECONOMIC DEVELOPMENT

IMPROVEMENTS FOR THE WIEST LAKE BOAT LAUNCHING FACILITY PROJECT

8' x 60' BOARDING FLOAT SYSTEM

SHEET 18 OF 26

LEGEND:

-  COLD PLANE EXISTING A.C. PAVEMENT FOR 1-INCH THICKNESS. REMOVE AND DISPOSE OF EXISTING A.C. PAVEMENT MATERIAL.
-  INSTALL 3-INCHES OF A.C. PAVEMENT OVER 9-INCHES OF CLASS 2 BASE.
-  EXISTING A.C. PAVEMENT TO REMAIN.
-  RIP RAP - INSTALL 4" TO 6" RIP RAP TYP. OVER FILTER FABRIC
-  INSTALL 3-INCHES OF A.C. PAVEMENT.

PROPOSED PARKING SPACES

STANDARD PARKING SPACES	10
ACCESSIBLE PARKING SPACES	1
<hr/>	
VEHICLE W/ TRAILER PARKING SPACES	19
VEHICLE W/ TRAILER ADA PARKING SPACES	1
<hr/>	
TOTAL PARKING SPACES	31

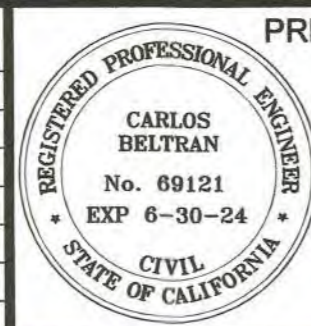



PARKING LOT NOTES:

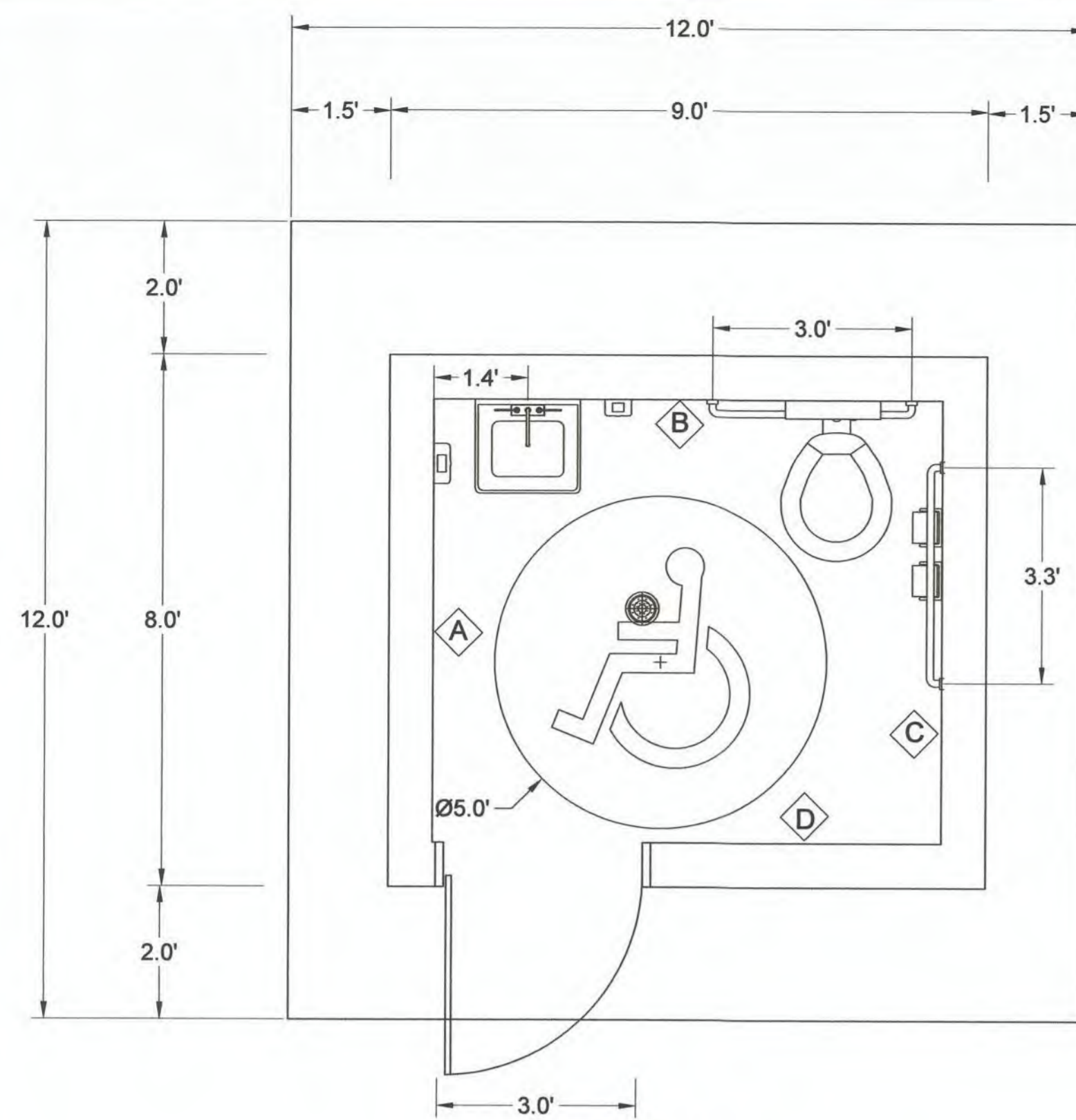
NOTE: PARKING SPACES SHALL BE STRIPED ACCORDINGLY AND ALL STRIPING SHALL BE MAINTAINED IN ACCORDANCE WITH COUNTY ORDINANCES AND REQUIREMENTS.

- 50 PAINT 4 INCH WHITE STRIPE PARKING STALL
- 51 PAINT ACCESSIBLE PARKING STALL AND AISLE PER 2013 CA BUILDING CODES. INSTALL REQUIRED ACCESSIBLE PARKING SIGNS.
- 52 PAINT "NO PARKING" IN WHITE 12 INCH LETTERS PER CALTRANS STANDARD PLAN RSP A24E. PAINT 4 INCH DIAGONAL LINES 3 FT OFF CENTER.
- 53 PAINT 4 INCH WHITE DIAGONAL STRIPES 3 FT OFF CENTER NO PARKING ZONE.
- 54 PAINT RED CURB (NO PARKING)
- 55 PAINT ARROWS PER CALTRANS STANDARD PLANS RSP A24A
- 56 INSTALL 12 INCH WHITE STOP LINE PER CALTRANS STANDARD PLANS RSP A24E
- 57 PAINT "STOP" PER CALTRANS STANDARD PLANS A24D
- 58 PAINT RIGHT EDGELINE PER CALTRANS STANDARD DETAIL 27B
- 59 PAINT YELLOW NO PASSING ZONE STRIPING PER CALTRANS STANDARD DETAIL 21

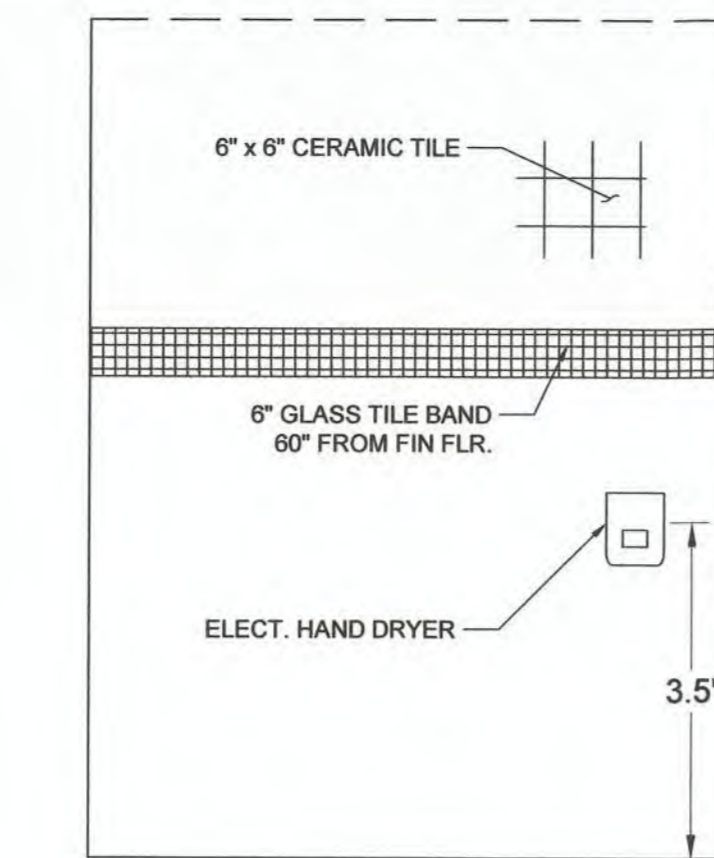
SCALE:
11"x17" Sheet 1" = 40'
24"x36" Sheet 1" = 20'



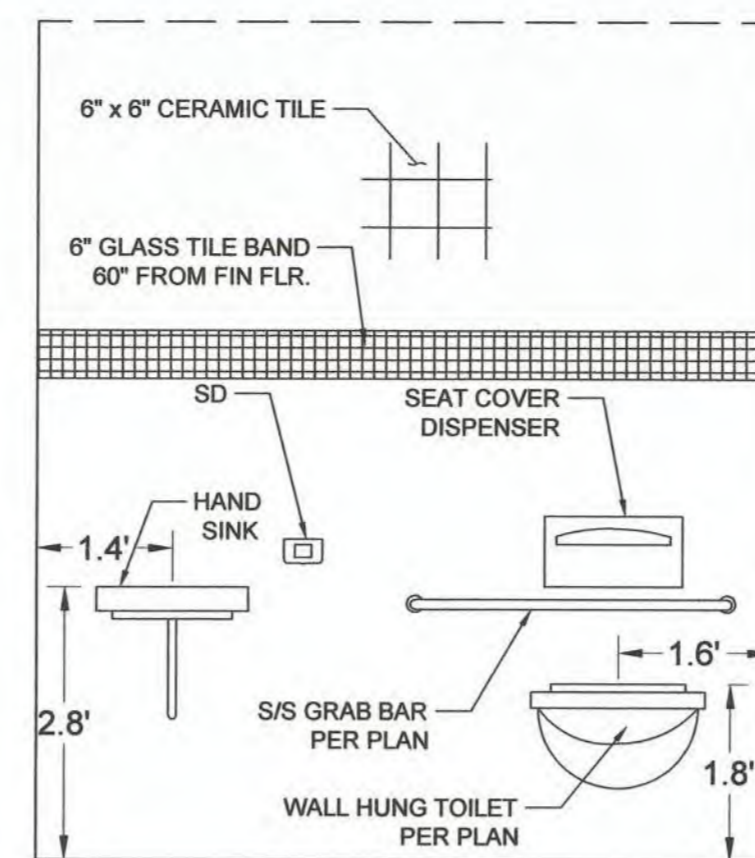
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REVISION</th> <th>DATE</th> <th>COMMENTS</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	REVISION	DATE	COMMENTS													<p>PREPARED UNDER THE DIRECT SUPERVISION OF:</p> <div style="display: flex; justify-content: space-between;"> <div style="text-align: center;">  <p>CARLOS BELTRAN No. 69121 EXP 6-30-24 CIVIL ENGINEER STATE OF CALIFORNIA</p> </div> <div style="text-align: center;"> <p><i>CB</i> CARLOS BELTRAN, P.E.</p> </div> <div style="text-align: center;"> <p>69121 R.C.E. No.</p> <p>06/30/24 REG. EXP.</p> </div> </div>	<div style="display: flex; align-items: center;">  <div style="margin-left: 10px;"> <p>Dynamic CONSULTING ENGINEERS</p> <p>CIVIL ENGINEERING - LAND SURVEYING - CONSTRUCTION MANAGEMENT 2415 IMPERIAL BUSINESS PARK DRIVE, SUITE B., IMPERIAL CA. 92251 TEL. (760) 545-0162 FAX (760) 545-0163</p> </div> </div> <div style="display: flex; align-items: center; margin-top: 10px;">  <div style="margin-left: 10px;"> <p>PUBLIC WORKS DEPARTMENT</p> <p>COUNTY OF IMPERIAL</p> </div> </div>	<p>APPROVED BY THE COUNTY OF IMPERIAL:</p> <div style="display: flex; justify-content: space-between;"> <div style="text-align: center;">  <p>JOHN GAY No. 62028 EXP 9-30-23 CIVIL ENGINEER STATE OF CALIFORNIA</p> </div> <div style="text-align: center;"> <p><i>John Gay</i> JOHN GAY, P.E. PUBLIC WORKS DIRECTOR</p> <p>6/6/23 DATE</p> </div> <div style="text-align: center;"> <p>62028 R.C.E. No.</p> <p>09/30/23 REG. EXP.</p> </div> </div>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DATE</td> <td>6/2/2023</td> </tr> <tr> <td>DRAWN</td> <td>DB</td> </tr> <tr> <td>SCALE</td> <td>AS SHOWN</td> </tr> <tr> <td>CHECKED</td> <td>CB</td> </tr> </table>	DATE	6/2/2023	DRAWN	DB	SCALE	AS SHOWN	CHECKED	CB	<p>COMMUNITY AND ECONOMIC DEVELOPMENT</p> <p>IMPROVEMENTS FOR THE WIEST LAKE BOAT LAUNCHING FACILITY PROJECT</p>	<p>STRIPING PLAN</p> <p>SHEET 19 OF 26</p>
REVISION	DATE	COMMENTS																											
DATE	6/2/2023																												
DRAWN	DB																												
SCALE	AS SHOWN																												
CHECKED	CB																												



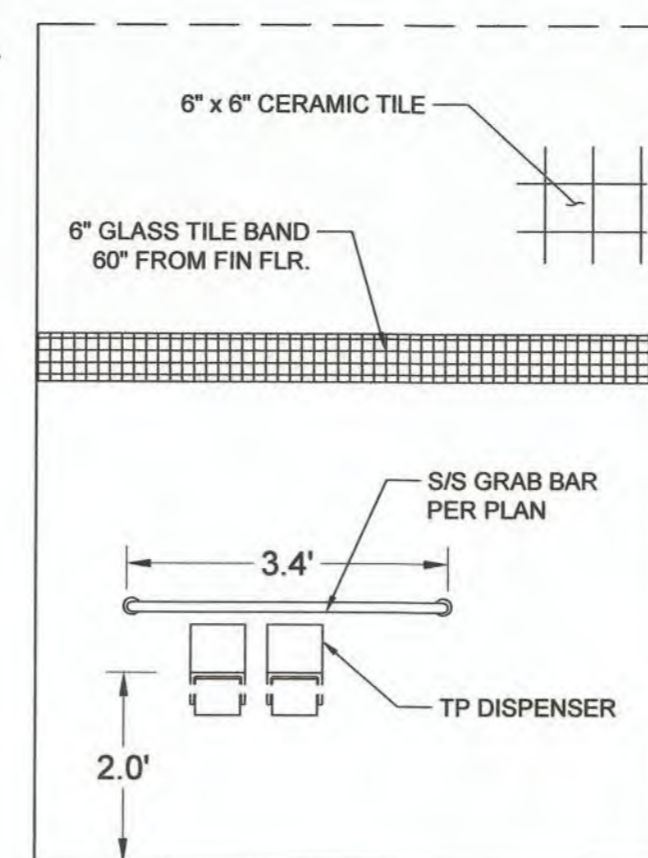
FLOOR PLAN



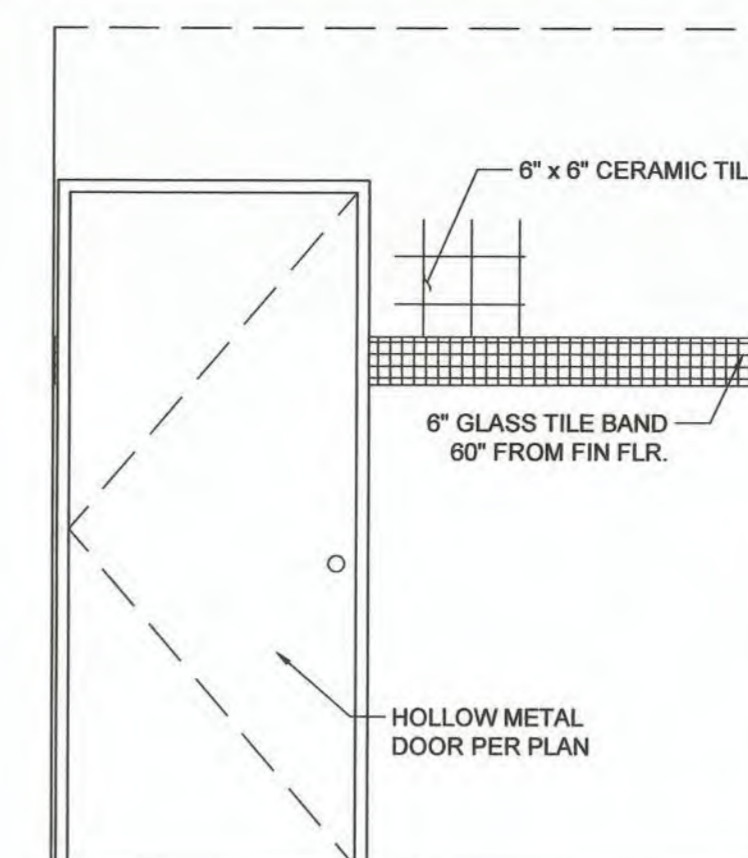
A INTERIOR ELEVATION



B INTERIOR ELEVATION



C INTERIOR ELEVATION



D INTERIOR ELEVATION

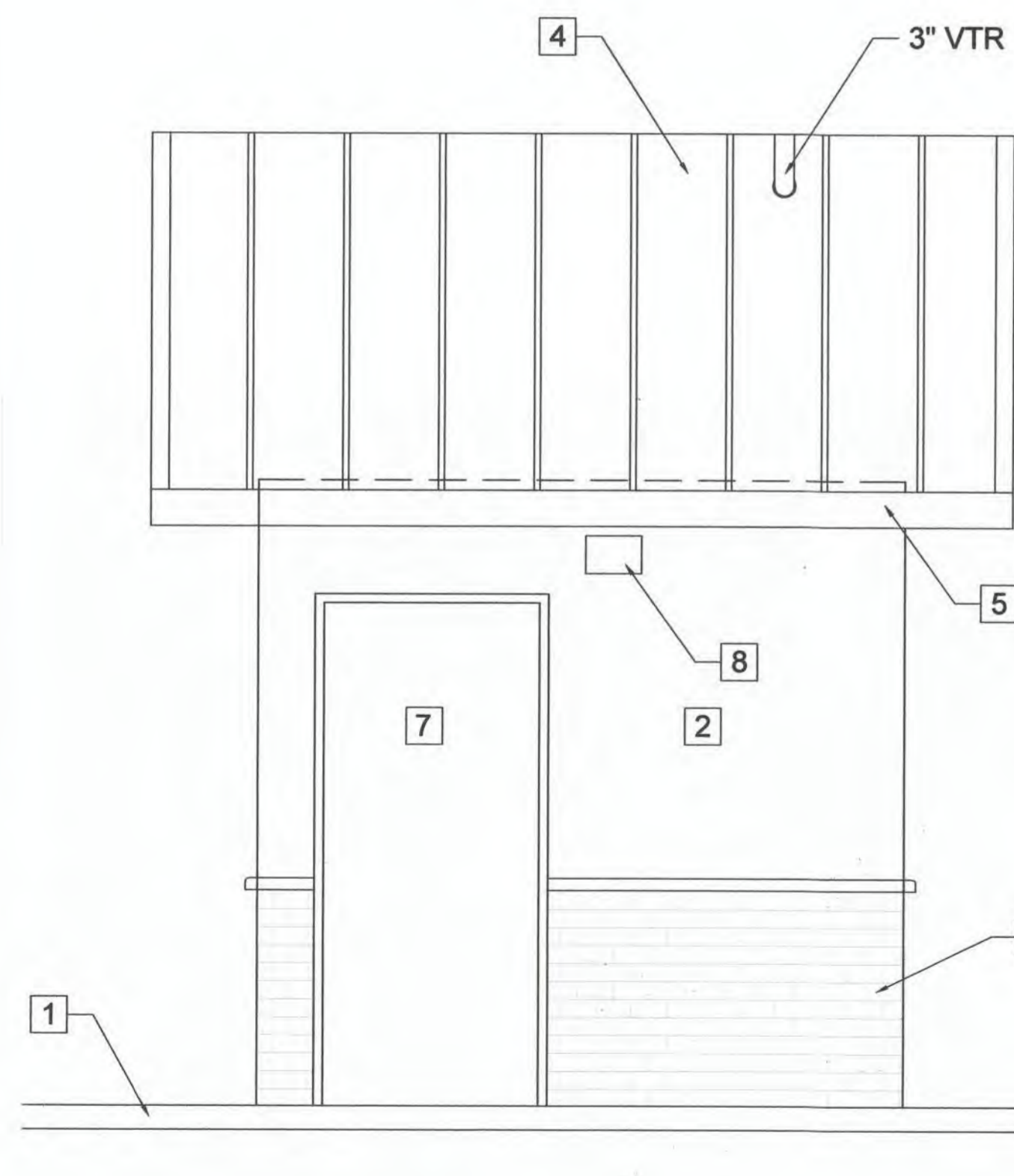
- CONSTRUCTION NOTES**
- 1 4" THICK CONCRETE SIDEWALK PER PLAN
 - 2 3 COAT STUCCO FINISH ACCENT WALLS (AW) W/STONE VENEER TO HAVE DIFFERENT STUCCO COLOR. COLORS TO BE SELECTED BY OWNER.
 - 3 "CAST AWAY" STACKED STONE BY EL DORADO STONE OR EQUAL.
 - 4 28ga SKYLINE SERIES 16" STANDING SEAM METAL ROOF BY ASC BUILDING PRODUCTS OR EQUAL-COLOR BY OWNER.
 - 5 2x6 R/S WOOD FASCIA-PRIME & PAINT FINISH INCLUDING EAVES.
 - 6 6"x16" GALVANIZED WIRE VENTS AT VENT OPENINGS.
 - 7 14ga HOLLOW METAL STEEL DOOR.
 - 8 INSTALL SINGLE LIGHT WALL MOUNTED 45 WATT LED OUTDOOR UTILITY LIGHT.

CODE SUMMARY:

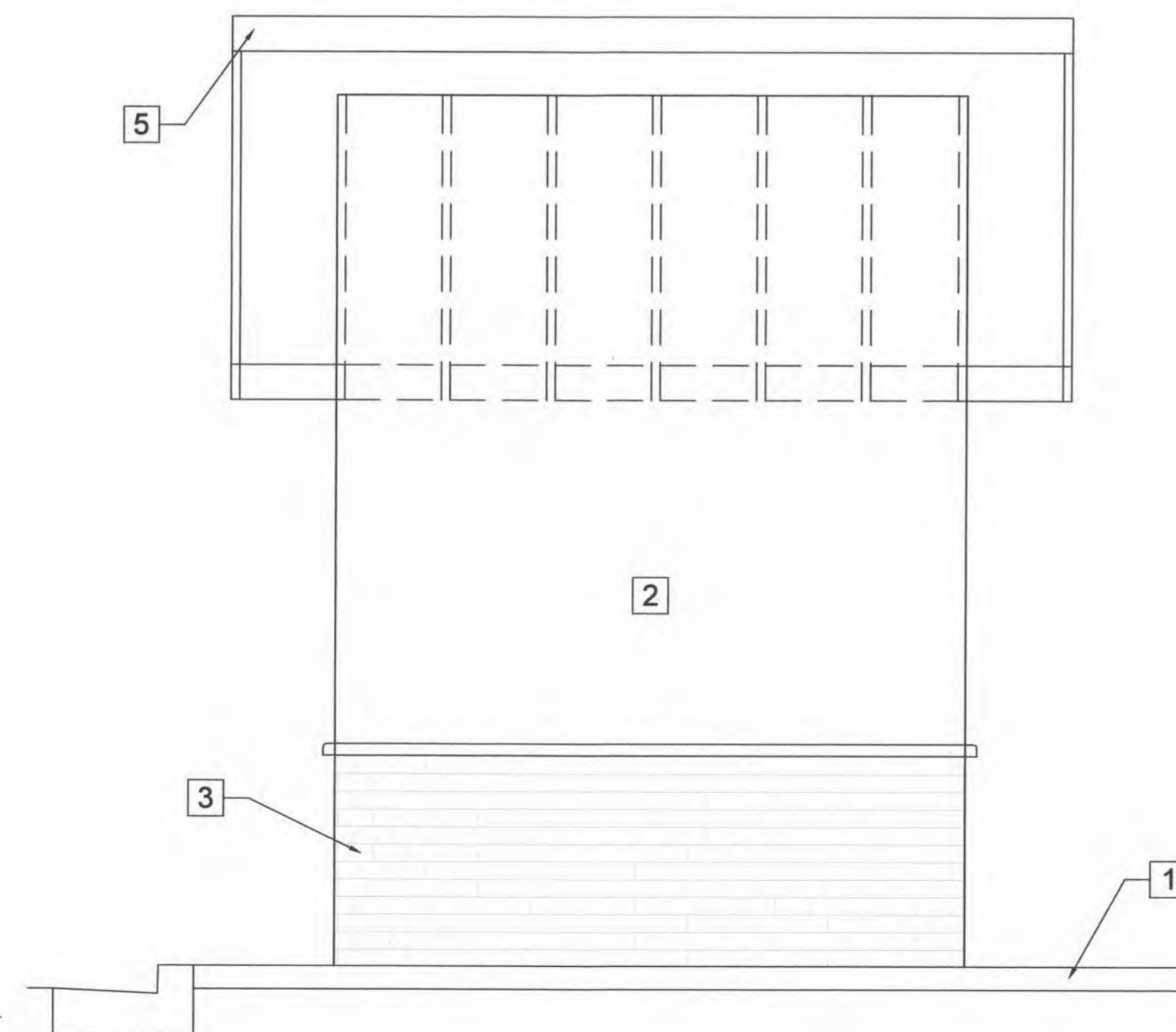
OCCUPANCY TYPE: U - UTILITY AND MISCELLANEOUS
 CONSTRUCTION: MASONRY
 AREA ALLOWABLE: 51.11 SQ. FT
 HEIGHT: 1 STORY
 HEIGHT ALLOWABLE: N/A
 OCCUPANT LOAD: 1

CODES AND STANDARDS

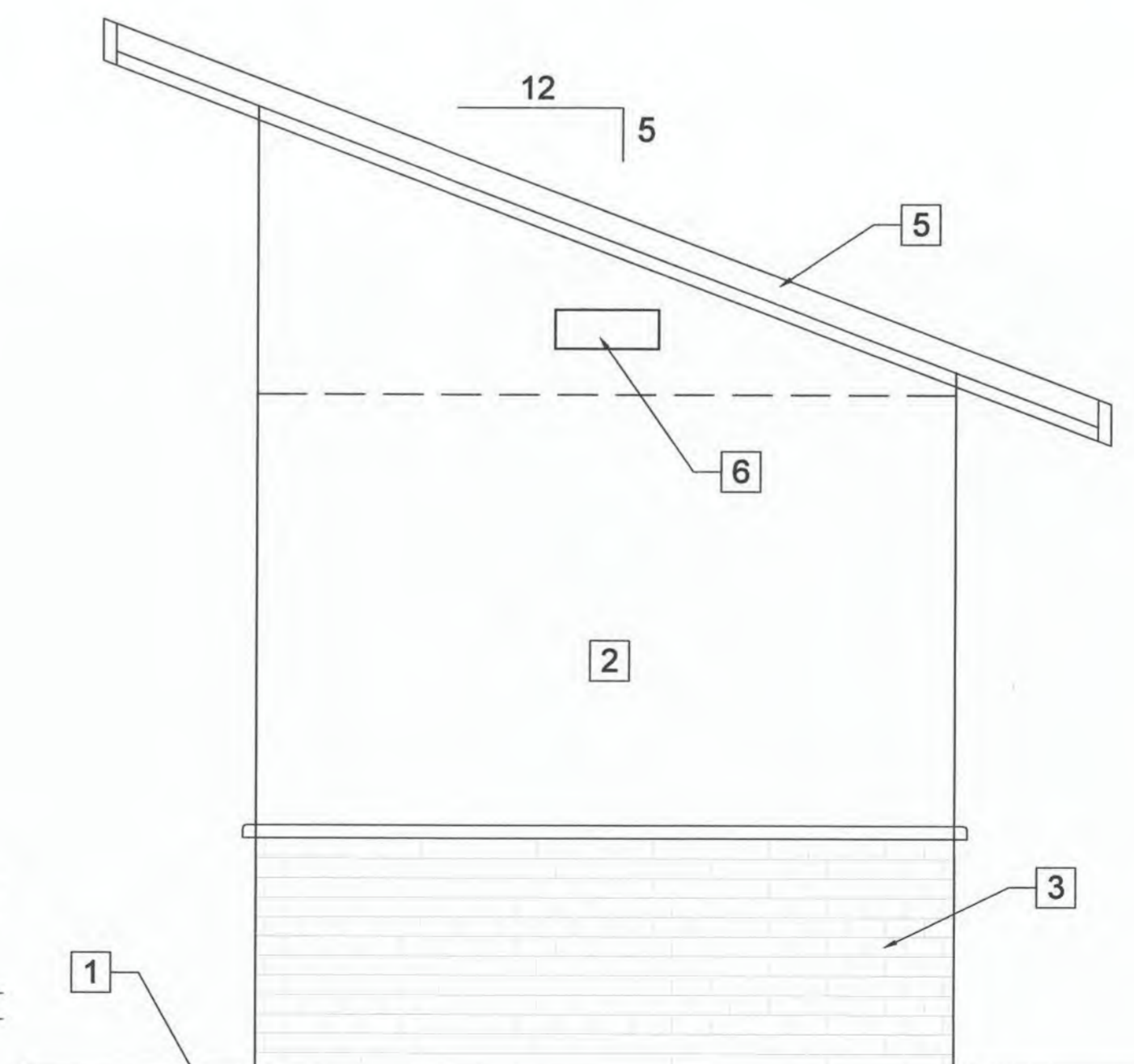
2016 CALIFORNIA BUILDING CODE (CBC), TITLE 24 PART 2
 2016 CALIFORNIA ELECTRICAL CODE, TITLE 24 PART 3
 2016 CALIFORNIA MECHANICAL CODE, TITLE 24 PART 4
 2016 CALIFORNIA PLUMBING CODE, TITLE 24 PART 5
 2016 CALIFORNIA BUILDING ENERGY CODE, TITLE 24 PART 6
 2016 CALIFORNIA FIRE CODE, TITLE 24 PART 9
 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE
 ACI AMERICAN CONCRETE INSTITUTE, ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
 ACI AMERICAN CONCRETE INSTITUTE, ACI 530, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES"
 AISC AMERICAN INSTITUTE OF STEEL CONSTRUCTION, "STEEL CONSTRUCTION MANUAL, 13TH EDITION"
 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN



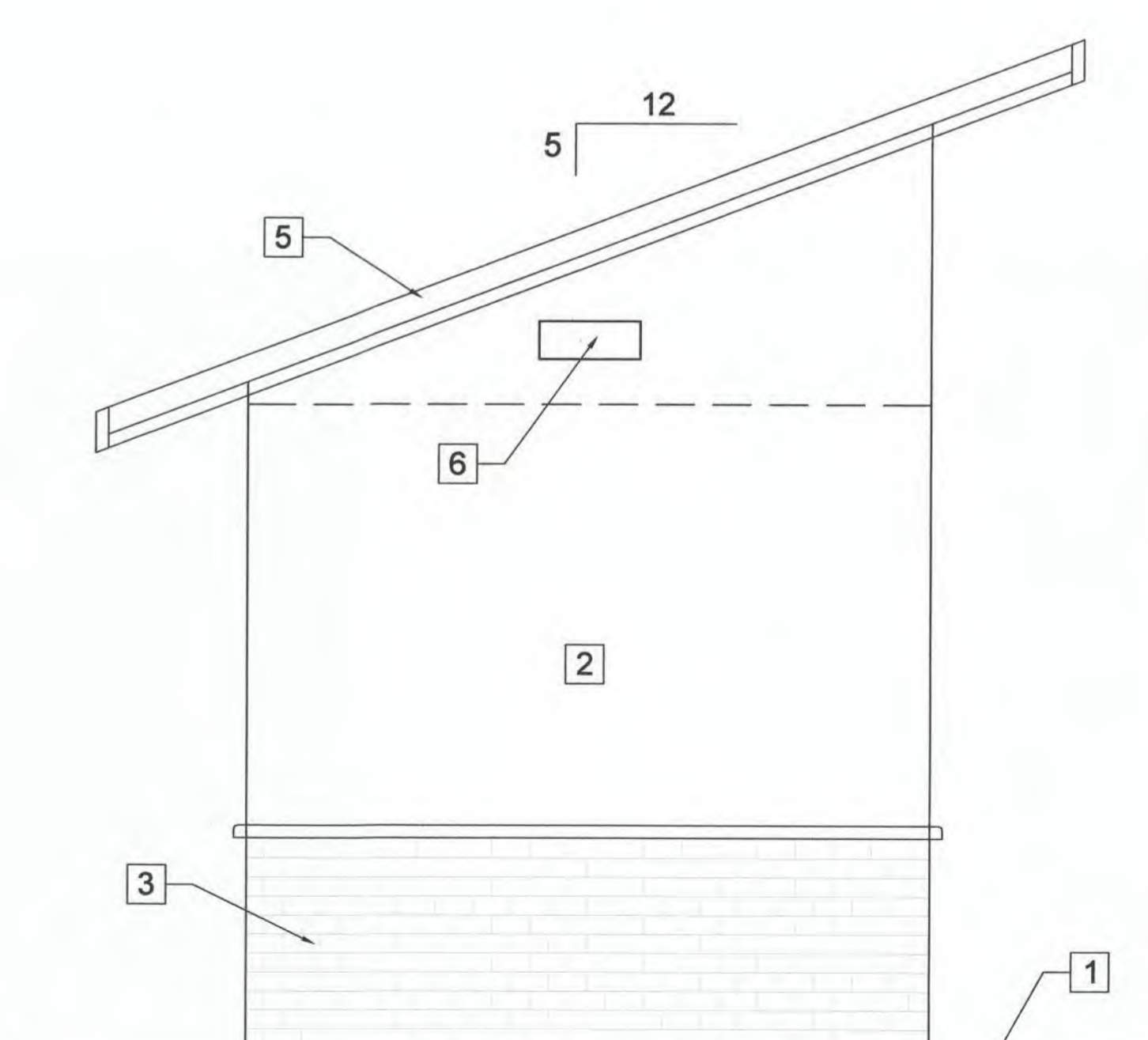
SOUTH ELEVATION



NORTH ELEVATION



EAST ELEVATION



WEST ELEVATION

REVISION	DATE	COMMENTS

PREPARED UNDER THE DIRECT SUPERVISION OF:
 CARLOS BELTRAN, P.E.
 No. 69121
 EXP 6-30-24
 CIVIL
 STATE OF CALIFORNIA
 DATE: 6/2/23

Dynamic CONSULTING ENGINEERS
 CIVIL ENGINEERING - LAND SURVEYING - CONSTRUCTION MANAGEMENT
 2415 IMPERIAL BUSINESS PARK DRIVE, SUITE B.,
 IMPERIAL, CA. 92251
 TEL. (760) 545-0162 FAX (760) 545-0163

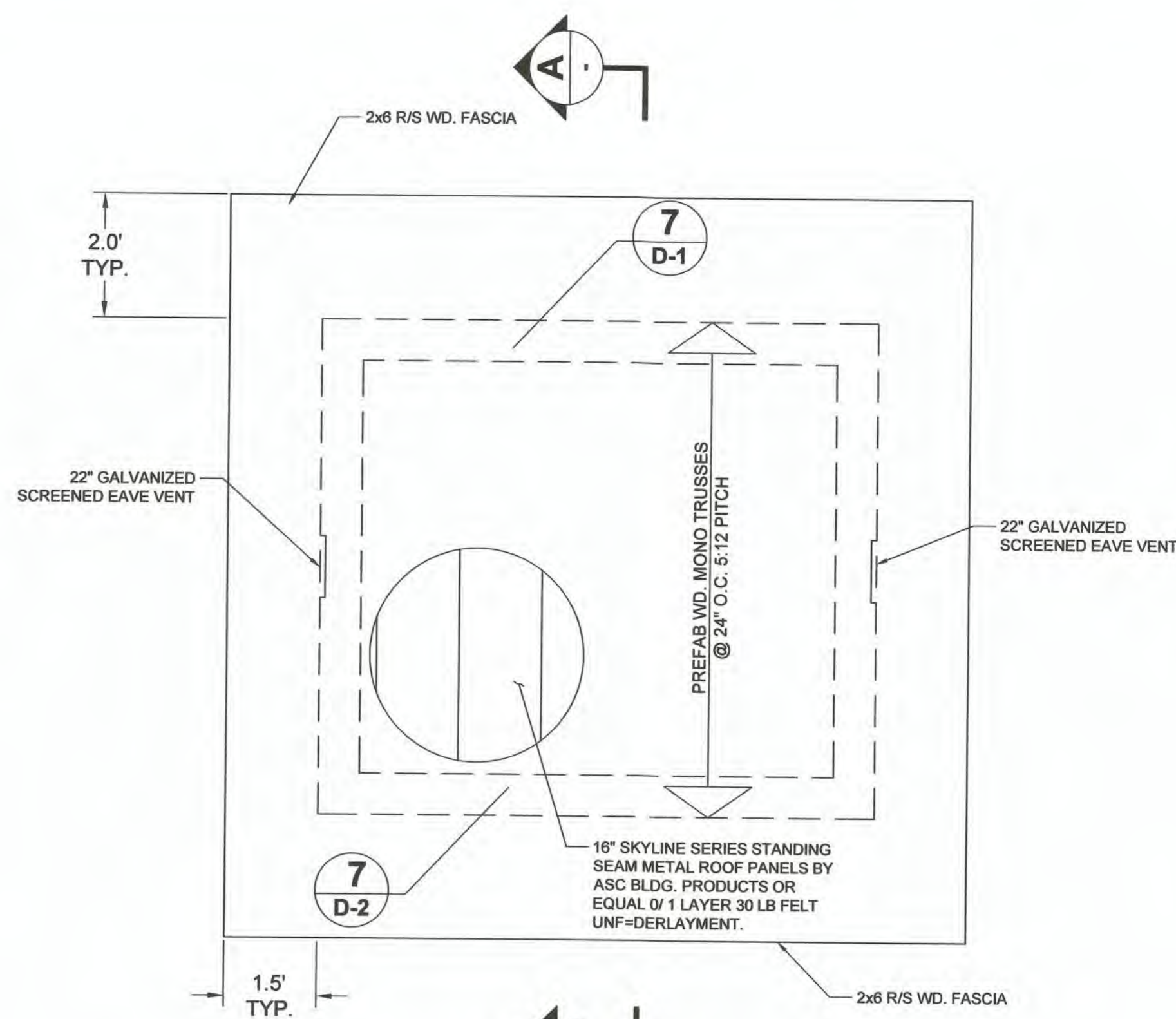
PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL

APPROVED BY THE COUNTY OF IMPERIAL:
 JOHN GAY, P.E.
 PUBLIC WORKS DIRECTOR
 No. 62028
 EXP 9-30-23
 CIVIL
 STATE OF CALIFORNIA
 DATE: 6/6/23

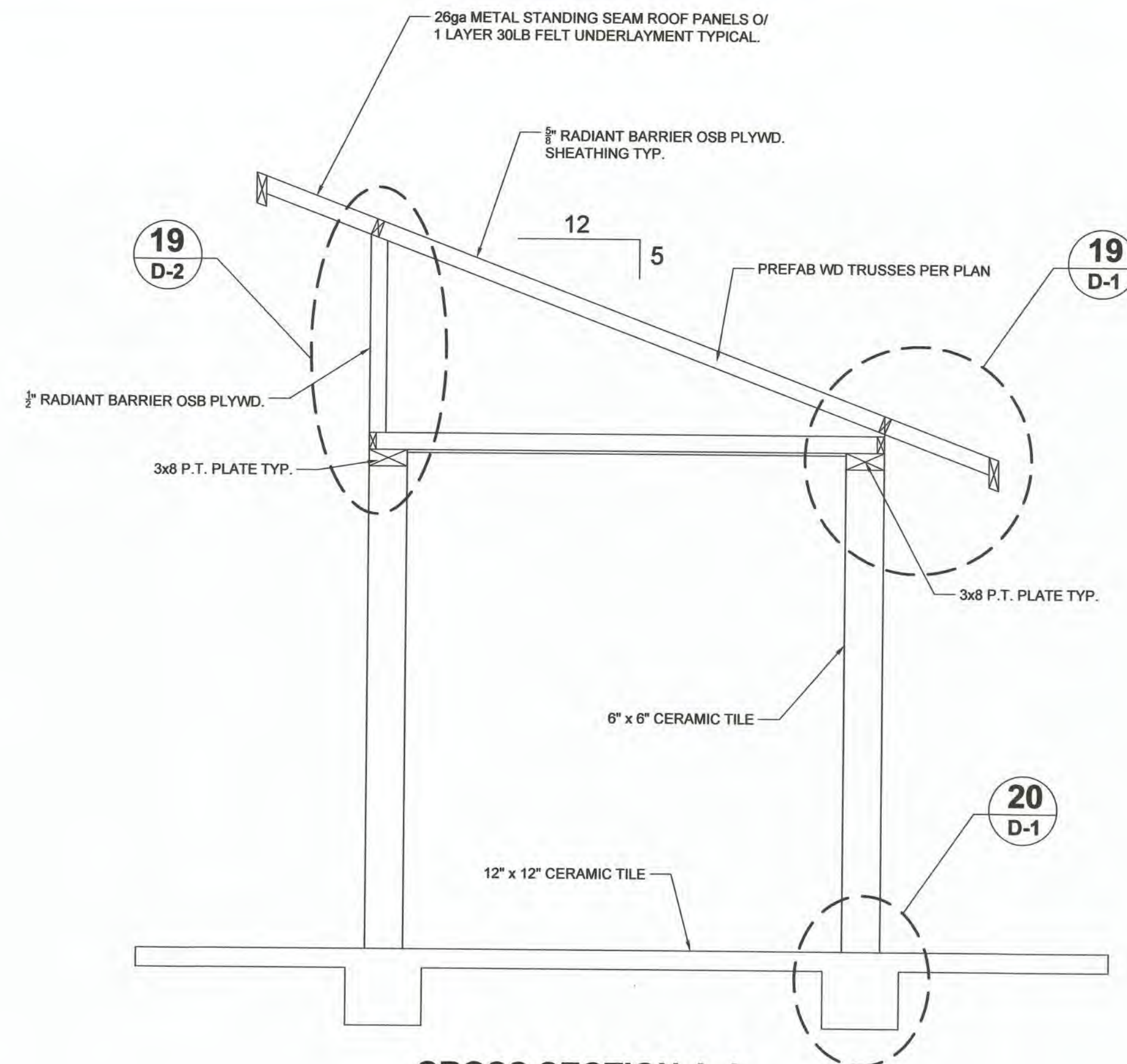
DATE: 6/2/2023
 DRAWN: DB
 SCALE: AS SHOWN
 CHECKED: CB

COMMUNITY AND ECONOMIC DEVELOPMENT
IMPROVEMENTS FOR THE WIEST LAKE BOAT LAUNCHING FACILITY PROJECT

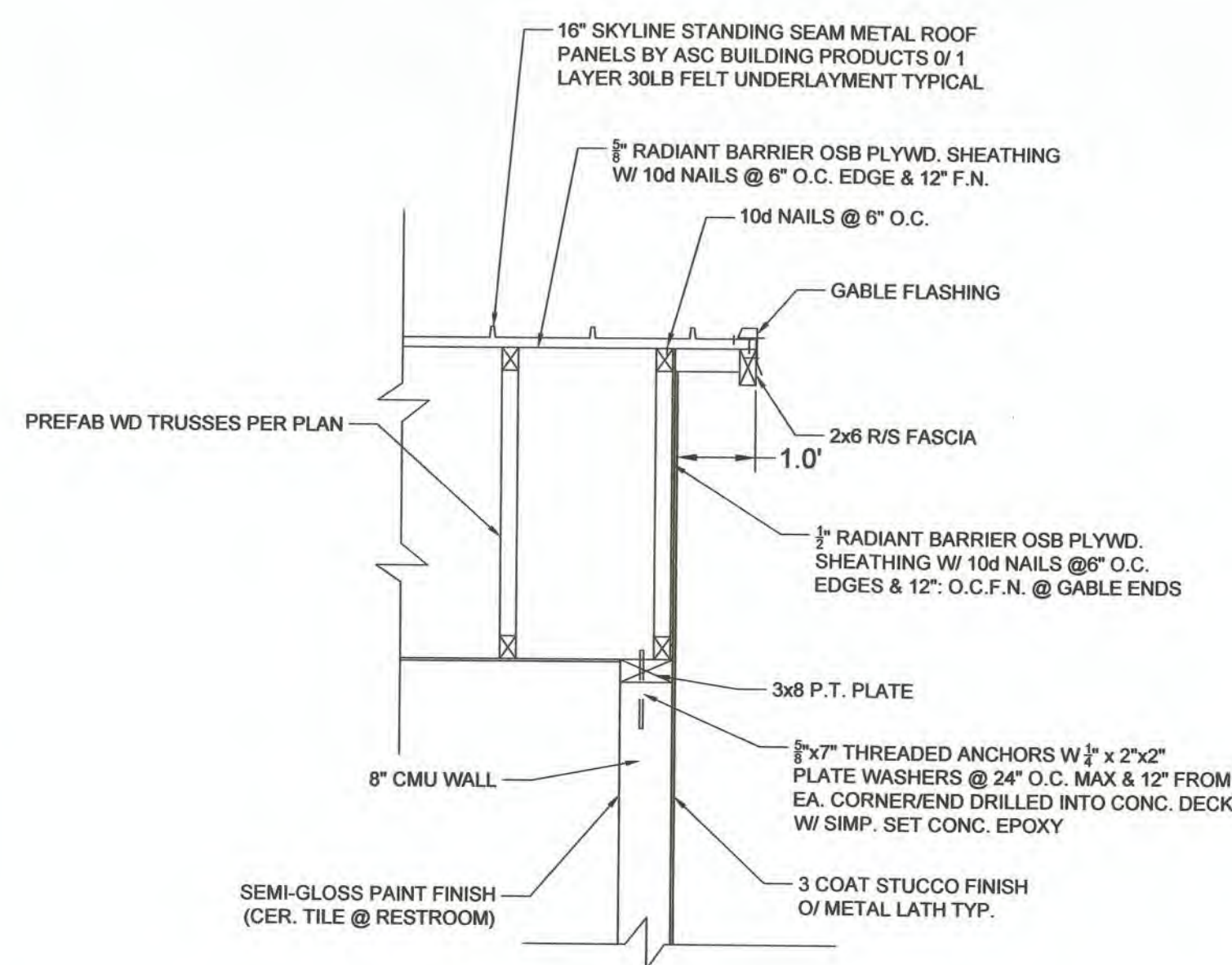
RESTROOM
 SHEET 20 OF 26



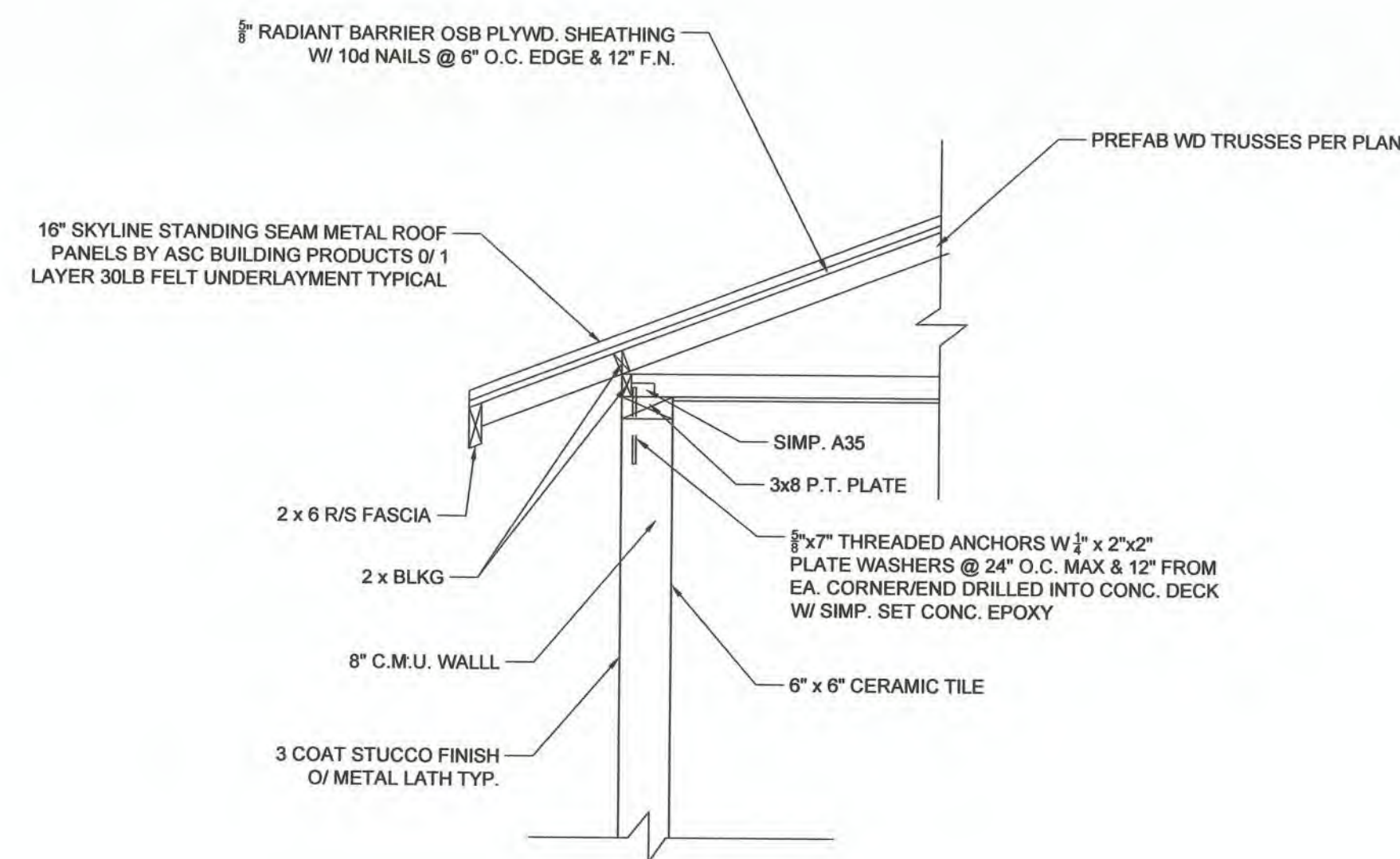
ROOF FRAMING PLAN



CROSS SECTION A-A



EAVE DETAIL 2



EAVE DETAIL 1

GENERAL SPECIFICATIONS

DESIGN BASED ON ADA ACCESSIBILITY GUIDELINES (ADAAG) FOR RAMP AND STEPS SECTIONS 4.8 & 4.9 AND THE INTERNATIONAL BUILDING CODE (IBC) FOR RAMP AND STAIRWAYS - SECTIONS 1009-1010 AND ADA STANDARDS

MATERIALS

1. ALL RAMP SECTIONS, PLATFORMS, STEPS, LEGS, AND GUARDRAILS ARE CONSTRUCTED OF MILL FINISH ALUMINUM EXTRUSIONS AND MILL FINISH ALUMINUM SHEET, EXTRUSIONS ARE EITHER 6061-T6, 6063-T52, OR 6005-T5 ALUMINUM ALLOY AND ALL ALUMINUM SHEET IS 5052-H32.
2. WELDED ASSEMBLIES ARE FABRICATED IN ACCORDANCE WITH ANSI WELDING STANDARD AWS D1.2/D1.2M-2013 - STRUCTURAL WELDING CODE FOR ALUMINUM.
3. ALL MECHANICAL FASTENERS ARE 18-8 STAINLESS STEEL.

ENGINEERING

1. THE RAMP, STEP, AND PLATFORM SYSTEM IS DESIGNED TO BE A RIGID, FREE STANDING STRUCTURE. ALL FOOTPLATES SHOULD BE FASTENED SECURELY TO A CONCRETE SURFACE OR 12" MINIMUM DIAMETER FOOTINGS IN ORDER TO ACHIEVE FULL STRUCTURAL INTEGRITY. FOOTING DEPTH WILL DEPEND ON LOCAL BUILDING CODE. FASTENING ALL PLATFORMS ADJACENT TO THE BUILDING OR MODULAR BUILDING WITH LAG SCREWS IS HIGHLY RECOMMENDED.
2. ALL WALKING SURFACES ARE DESIGNED TO CARRY A UNIFORM LIVE LOAD OF 100 POUNDS PER SQUARE FOOT AND A CONCENTRATED LOAD OF 300 POUNDS IN AN AREA OF ONE SQUARE FOOT.
3. ALL RAMP AND STEP HANDRAILS, AND RAMP, PLATFORM, AND STEP GUARDRAILS ARE DESIGNED TO WITHSTAND A CONCENTRATED LOAD OF 200 POUNDS IN ANY DIRECTION ON THE TOP OF THE RAIL.
4. ALL BALUSTERS ARE DESIGNED TO WITHSTAND A LOAD OF 50 POUNDS IN THE HORIZONTAL DIRECTION APPLIED IN AN AREA OF ONE SQUARE FOOT.
5. ALL PLATFORM WALKING SURFACES ARE DESIGNED TO HAVE A COEFFICIENT OF FRICTION NO LESS THAN 0.50 IN ALL DIRECTIONS OF TRAVEL. ALL RAMP AND STEP WALKING SURFACES ARE DESIGNED TO HAVE A COEFFICIENT OF FRICTION NO LESS THAN 0.50 IN THE NORMAL DIRECTION OF TRAVEL.

DIMENSION CODE COMPLIANCE

1. ALL RAMP SECTIONS ARE DESIGNED TO ALLOW A MAXIMUM SLOPE OF 1:12 OR 1" OF RISE FOR EVERY 12" OF RUN.
2. RAMP LAYOUT DRAWINGS PROVIDED DO NOT ALLOW FOR ANY RAMP TO TRAVEL A DISTANCE OF 30 FEET (30' VERTICALLY) WITHOUT INCLUDING A RESTING PLATFORM. ALL RAMP, STEPS, AND PLATFORMS SHOULD BE INSTALLED ACCORDING TO THE SUPPLIED DRAWINGS.
3. ALL RAMP SECTIONS AND STAIRS ARE DESIGNED TO ALLOW A CLEARANCE OF 48" BETWEEN HANDRAILS.
4. ALL PLATFORMS ARE DESIGNED TO BE WIDER THAN THE RAMP SECTION OR STEP LEADING UP TO THEM AND AT LEAST 60" LONG IN THE DIRECTION OF THE TRAVEL.
5. ALL PLATFORMS ARE DESIGNED TO ALLOW AT LEAST A 60" DIAMETER AREA OF CLEARANCE FREE OF OBSTRUCTIONS.
6. ALL GUARDRAILS WILL NOT ALLOW A 4" DIAMETER SPHERE TO PASS THROUGH IN ANY AREA.
7. RAMP AND PLATFORM GUARDRAILS ARE ALL DESIGNED TO BE 42" HIGH MEASURED VERTICALLY FROM THE WALKING SURFACE TO THE TOP OF THE RAIL. STEPS OVER 30" HIGH ARE ALSO DESIGNED TO HAVE A 42" GUARDRAIL MEASURED FROM THE TOP OF THE STEP NOSING TO THE TOP OF THE RAIL.
8. GUARDRAILS AND HANDRAILS ARE PROVIDED ON BOTH SIDES OF ALL RAMP AND STEPS.
9. ALL RAMP AND STEP HANDRAILS ARE DESIGNED TO BE CONTINUOUS ALONG RAMP RUNS AND IN BETWEEN THE INSIDE CORNER OF 90° AND 180° TURNS IN RAMP DIRECTIONS. HANDRAILS ARE NOT INTERRUPTED BY POSTS OR OTHER OBSTRUCTIONS.
10. ALL HANDRAILS HAVE A CLEARANCE OF 2-1/4" BETWEEN THE HANDRAIL AND POST. HANDRAILS ARE CONSTRUCTED OF 1-1/4" SCH 40 PIPE WITH AN OUTSIDE DIAMETER OF 1.66"
11. RAMP HANDRAILS ARE DESIGNED TO BE 36" HIGH MEASURED VERTICALLY FROM THE WALKING SURFACE TO THE TOP OF THE RAIL. RAMP HANDRAILS EXTEND 12" PAST THE END OF THE SLOPE PARALLEL TO THE GROUND SURFACE AND RETURN TO THE CLOSEST RAIL POST OR WALL, IF NEEDED, DUE TO DOOR SWING INTERFERENCE AT THE TOP OF THE RAMP.
12. STEP HANDRAILS ARE DESIGNED TO BE 36" HIGH MEASURED VERTICALLY FROM THE TIP OF THE STEP NOSING TO THE TOP OF THE RAIL. STEP HANDRAILS EXTEND 12" PAST THE TOP STEP NOSING PARALLEL TO THE GROUND SURFACE AND RETURN TO THE CLOSEST RAIL POST OR WALL, IF NEEDED, DUE TO DOOR SWING INTERFERENCE AT THE TOP OF THE STEP. STEP HANDRAILS ALSO EXTEND ONE TREAD WIDTH PAST THE BOTTOM STEP TREAD (11") AND RETURNED TO THE CLOSEST RAIL POST.
13. ALL RAMP SECTIONS ARE DESIGNED TO INCORPORATE A 3-1/4" HIGH CURB ADJACENT TO THE WALKING SURFACE TO THE CLOSEST RAIL POST.
14. ALL STEP TREADS ARE DESIGNED TO HAVE A UNIFORM DEPTH OF 12" WITH A 1" NOSING FOR AN EFFECTIVE RUN OF 11" PER STEP. ALL STEP TREADS ARE ALSO DESIGNED TO HAVE A UNIFORM HEIGHT OF EITHER 6", 6-1/2" OR 7" (WITHIN CODE TOLERANCES) DEPENDING ON THE OVERALL HEIGHT OF THE STEP ASSEMBLY. ALL STEP RISERS ARE CLOSED IN BETWEEN TREADS.
15. ALL STEP NOSINGS HAVE A UNIFORM RADIUS OF 1/4" AND AN UNDERSIDE ANGLE OF 60° FROM THE HORIZONTAL.

REVISION	DATE	COMMENTS

PREPARED UNDER THE DIRECT SUPERVISION OF:

CARLOS BELTRAN
No. 69121
EXP 6-30-24
CIVIL
STATE OF CALIFORNIA

[Signature]
CARLOS BELTRAN, P.E.
DATE: 6/6/23

69121 R.C.E. No.
06/30/24 REG. EXP.

Dynamic CONSULTING ENGINEERS

CIVIL ENGINEERING - LAND SURVEYING - CONSTRUCTION MANAGEMENT
2415 IMPERIAL BUSINESS PARK DRIVE, SUITE B.,
IMPERIAL, CA. 92251
TEL. (760) 545-0162 FAX (760) 545-0163

PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL

APPROVED BY THE COUNTY OF IMPERIAL:

JOHN GAY
No. 62028
EXP 9-30-23
CIVIL
STATE OF CALIFORNIA

[Signature]
JOHN GAY, P.E.
PUBLIC WORKS DIRECTOR
DATE: 6/6/23

62028 R.C.E. No.
09/30/23 REG. EXP.

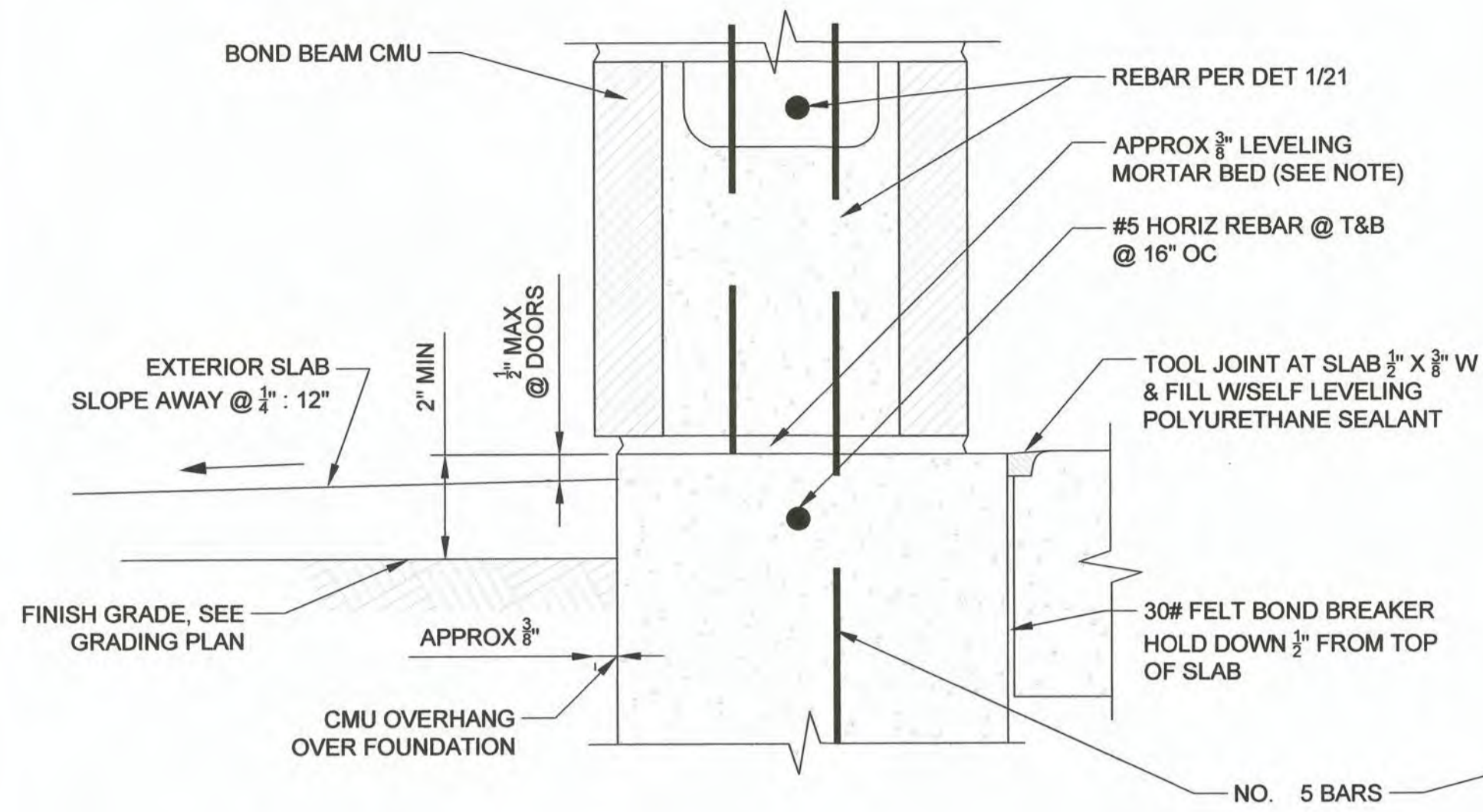
DATE	6/2/2023
DRAWN	DB
SCALE	AS SHOWN
CHECKED	CB

COMMUNITY AND ECONOMIC DEVELOPMENT

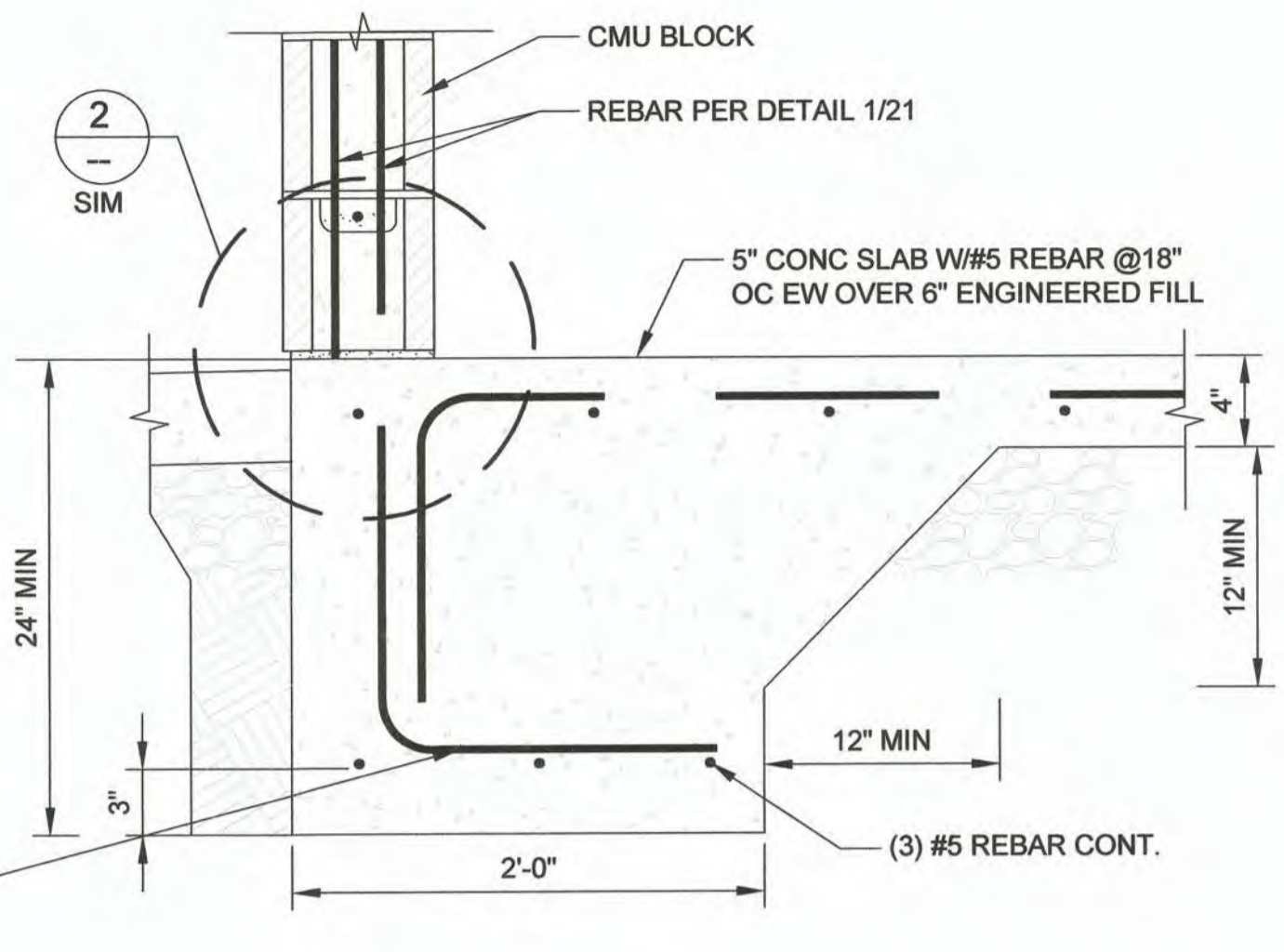
IMPROVEMENTS FOR THE WUEST LAKE BOAT LAUNCHING FACILITY PROJECT

RESTROOM

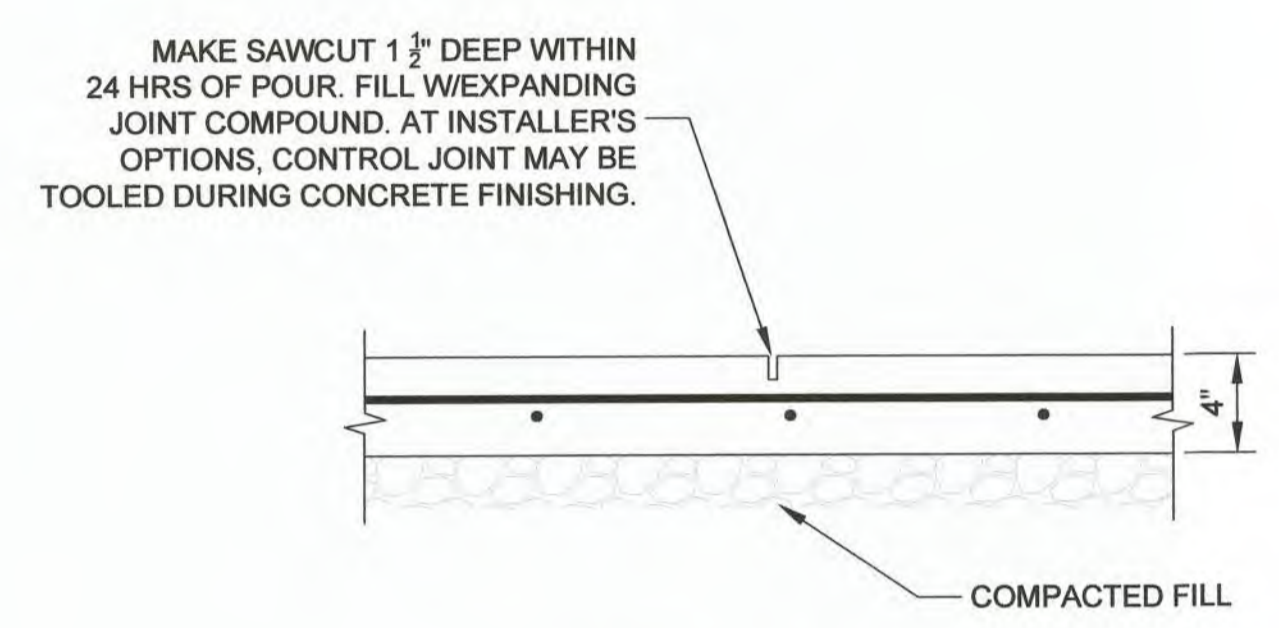
SHEET 21 OF 26



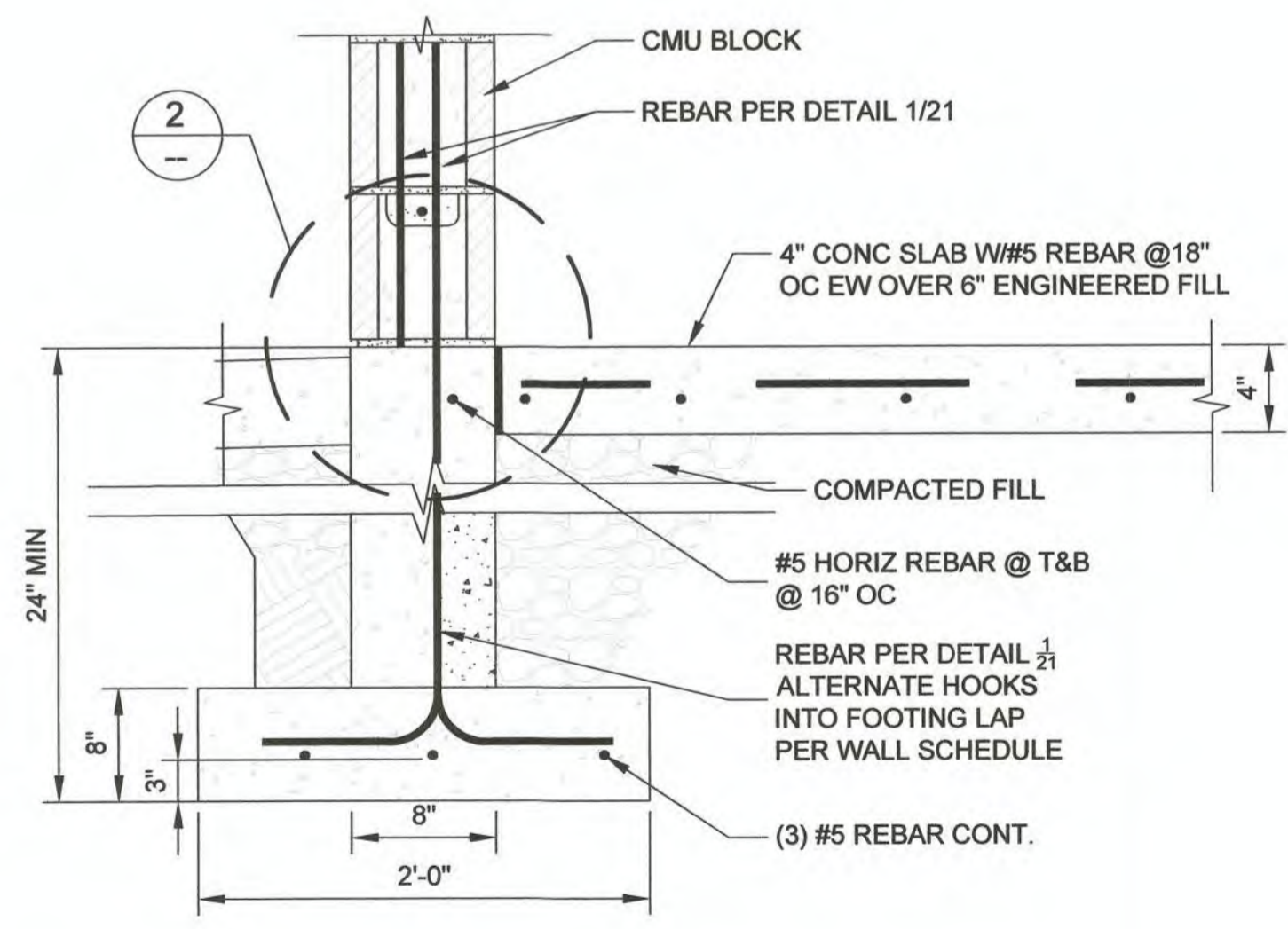
2 WALL-SLAB CONNECTION



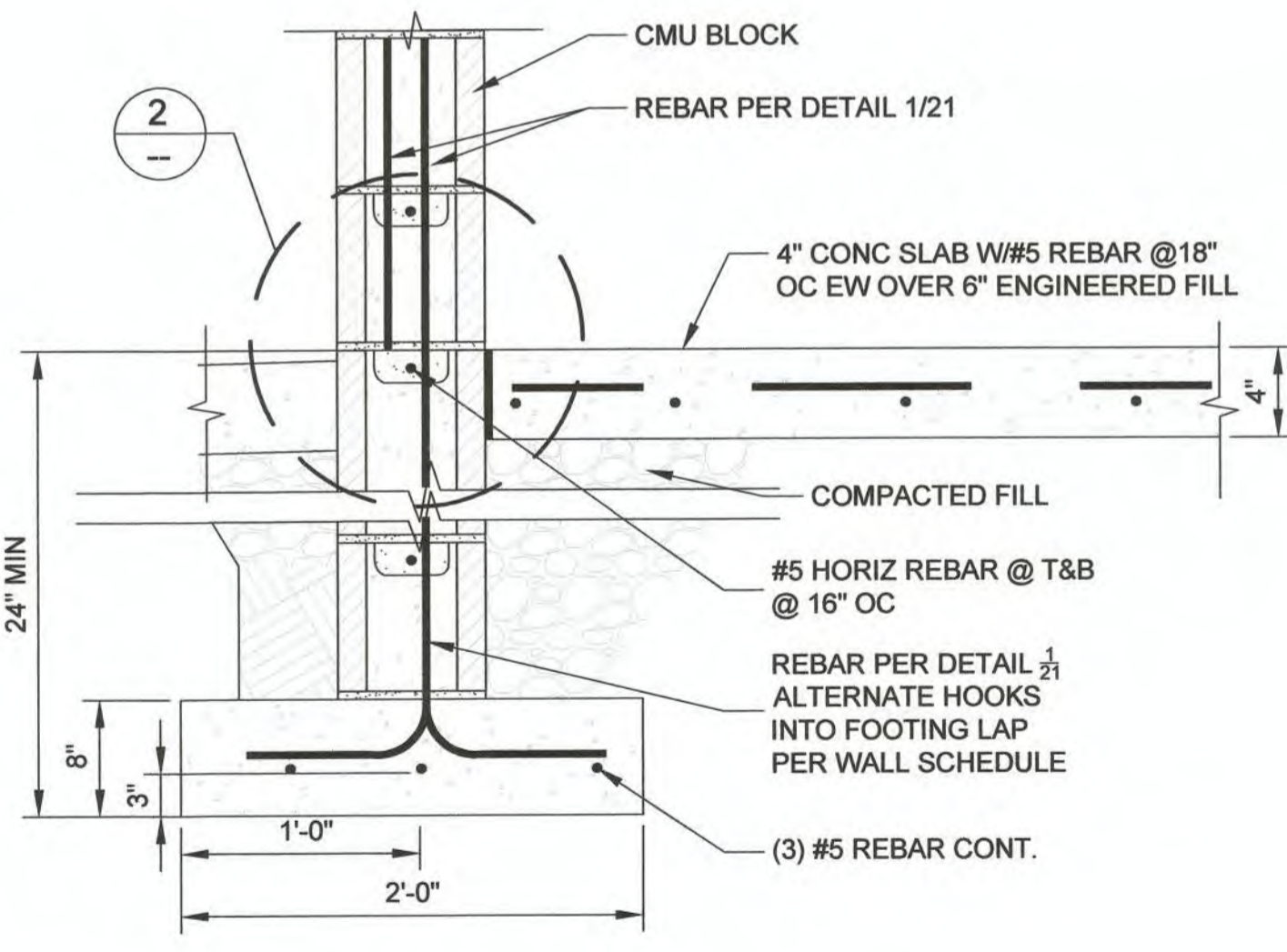
MONOLITHIC SLAP OPTION



3 SAWCUT JOINT



CONCRETE STEM WALL FOOTING OPTION



CMU STEM WALL OPTION

CODES AND STANDARDS

- 2016 CALIFORNIA BUILDING CODE (CBC), TITLE 24 PART 2
- 2016 CALIFORNIA ELECTRICAL CODE, TITLE 24 PART 3
- 2016 CALIFORNIA MECHANICAL CODE, TITLE 24 PART 4
- 2016 CALIFORNIA PLUMBING CODE, TITLE 24 PART 5
- 2016 CALIFORNIA BUILDING ENERGY CODE, TITLE 24 PART 6
- 2016 CALIFORNIA FIRE CODE, TITLE 24 PART 9
- 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE
- ACI AMERICAN CONCRETE INSTITUTE, ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
- ACI AMERICAN CONCRETE INSTITUTE, ACI 530, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES"
- AISC AMERICAN INSTITUTE OF STEEL CONSTRUCTION, "STEEL CONSTRUCTION MANUAL, 13TH EDITION"
- 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

CODE SUMMARY:

OCCUPANCY TYPE: U - UTILITY AND MISCELLANEOUS
 CONSTRUCTION: MASONRY
 AREA ALLOWABLE: 51.11 SQ FT
 HEIGHT: 1 STORY
 HEIGHT ALLOWABLE: N/A
 OCCUPANT LOAD: 1

1 FOUNDATION DETAIL

REVISION	DATE	COMMENTS

PREPARED UNDER THE DIRECT SUPERVISION OF:

CARLOS BELTRAN
 No. 09121
 EXP 6-30-24
 CIVIL ENGINEER
 STATE OF CALIFORNIA

Carlos Beltran
CARLOS BELTRAN, P.E.
 No. 69121
 R.C.E. No.
 06/30/24
 REG. EXP.

Dynamic CONSULTING ENGINEERS

CIVIL ENGINEERING - LAND SURVEYING - CONSTRUCTION MANAGEMENT
 2415 IMPERIAL BUSINESS PARK DRIVE, SUITE B.,
 IMPERIAL, CA. 92251
 TEL. (760) 545-0162 FAX (760) 545-0163

PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL

APPROVED BY THE COUNTY OF IMPERIAL:

JOHN GAY
 No. 82028
 EXP 9-30-23
 CIVIL ENGINEER
 STATE OF CALIFORNIA

John Gay
JOHN GAY, P.E.
 PUBLIC WORKS DIRECTOR
 6/6/23
 DATE

62028
 R.C.E. No.
 09/30/23
 REG. EXP.

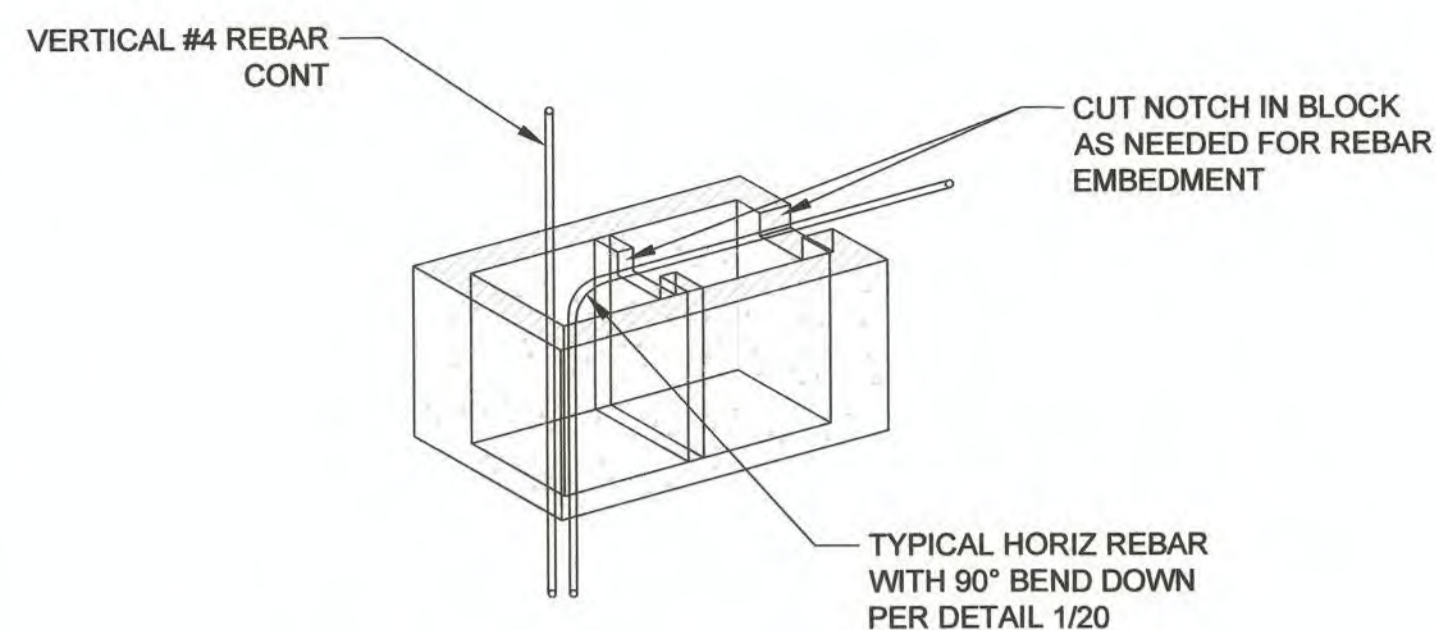
DATE	8/2/2023
DRAWN	DB
SCALE	AS SHOWN
CHECKED	CB

COMMUNITY AND ECONOMIC DEVELOPMENT

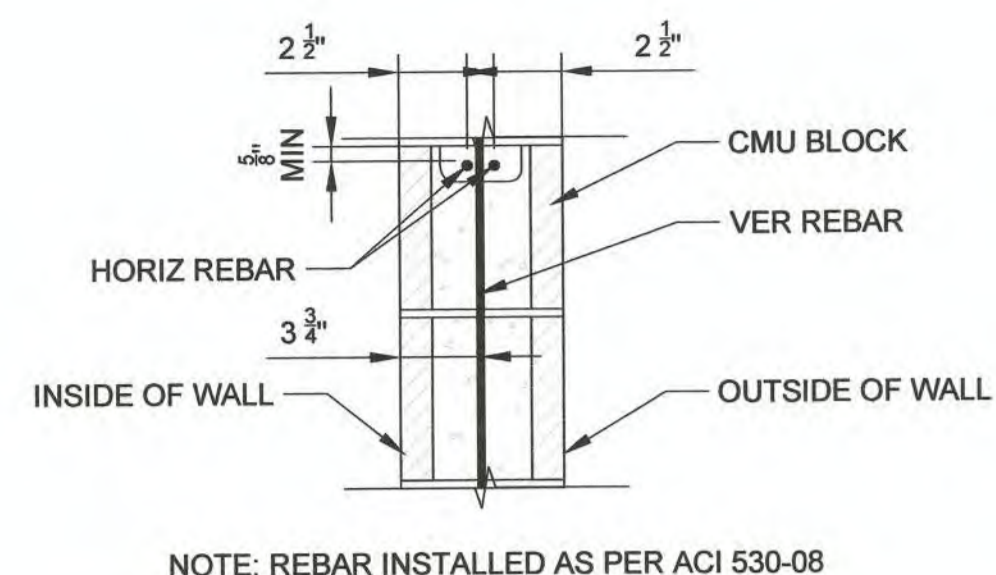
IMPROVEMENTS FOR THE WEST LAKE BOAT LAUNCHING FACILITY PROJECT

RESTROOM FOUNDATION DETAILS

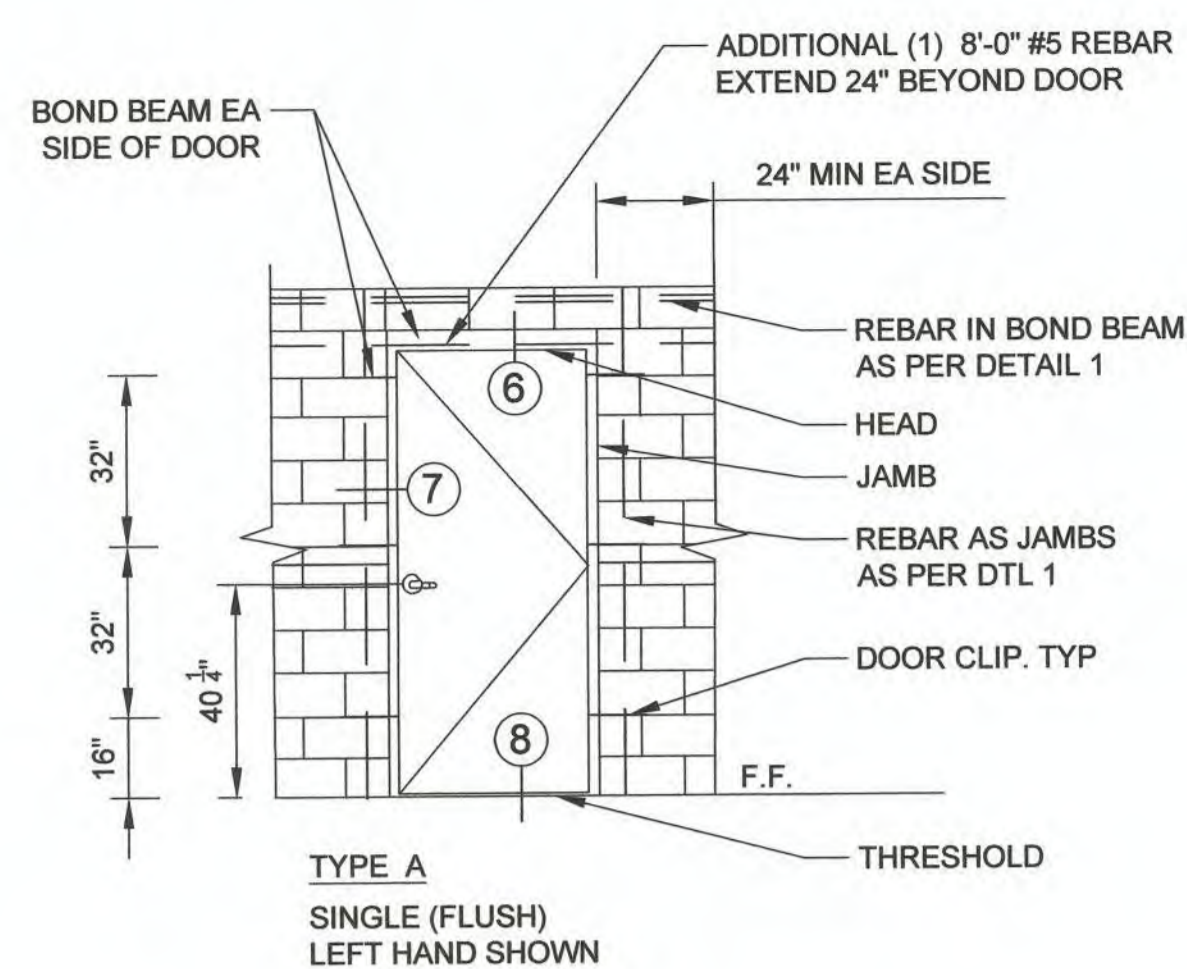
SHEET 22 OF 26



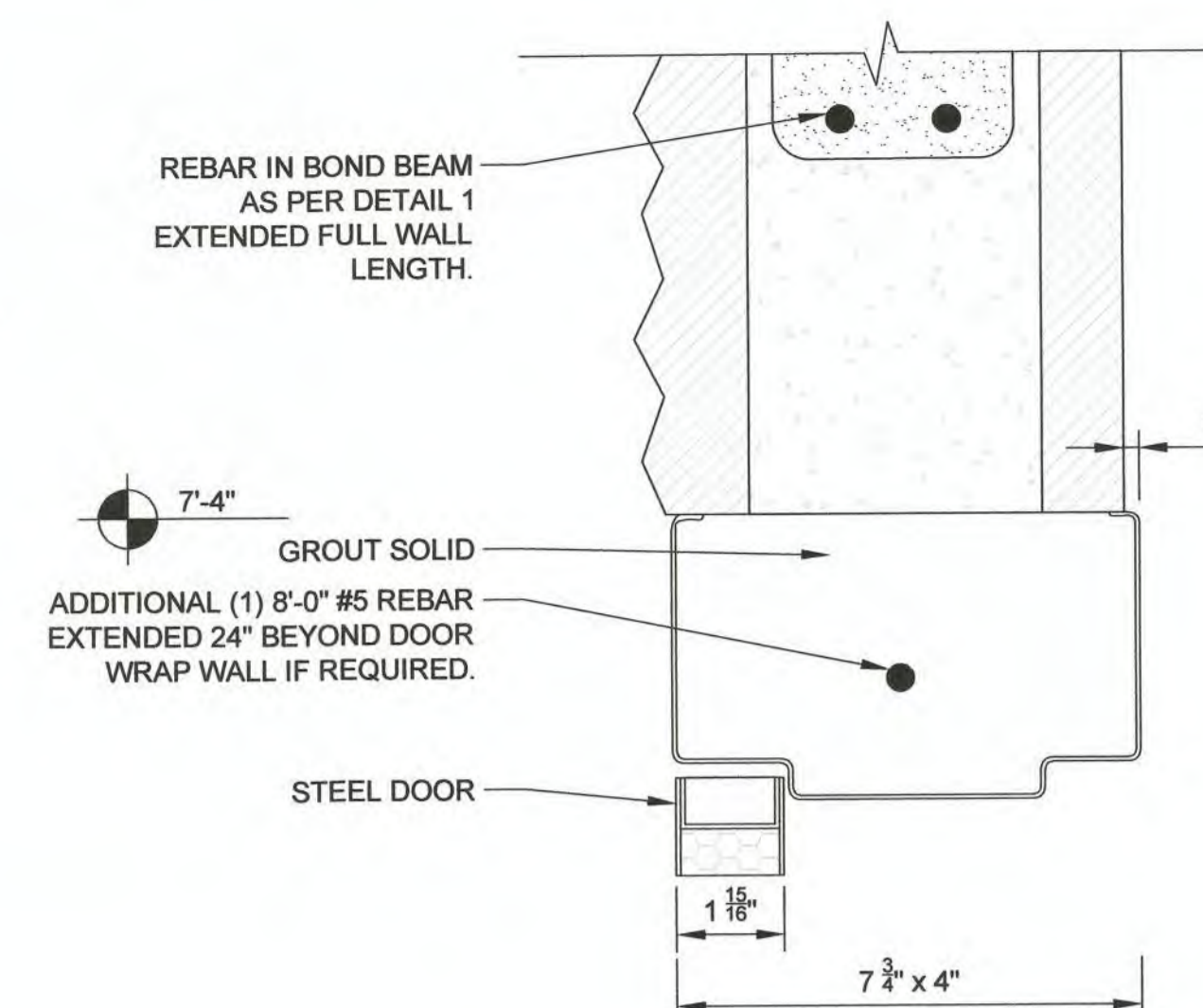
3 MORTAR JOINT CMU WALL END DETAIL



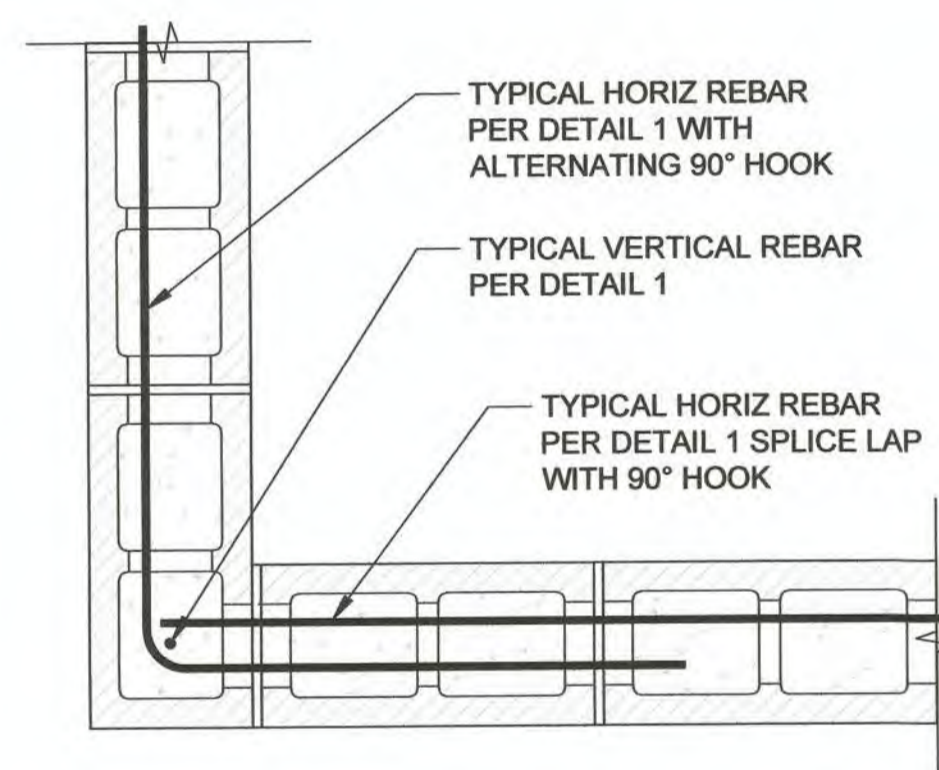
4 REBAR PLACEMENT



5 DOOR DETAIL



6 HEADER DETAIL



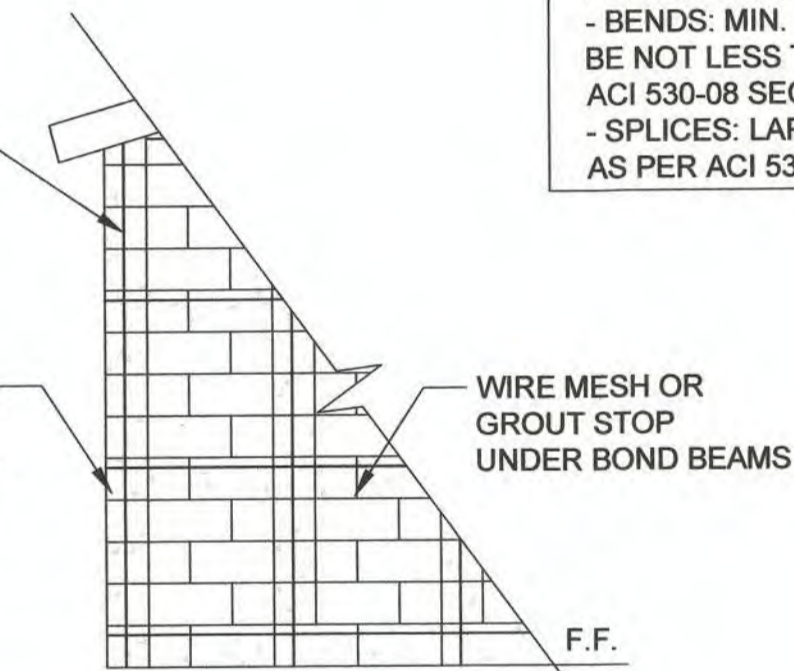
2 MORTAR JOINT CMU CORNER DETAIL

CMU REBAR SCHEDULE		
REBAR	MIN LAP	BEND RAD
#4	24"	3" MIN.
#5	30"	3 1/2" MIN.

VERTICAL #4 REBAR @ 32" OC
 HORIZONTAL #4 REBAR @ 32" OC
 # REBAR ALL SIDES OF OPENINGS
 (2) #4 REBAR ABOVE & BELOW MAJOR OPENINGS
 (2) #4 REBAR @ TOP COURSE

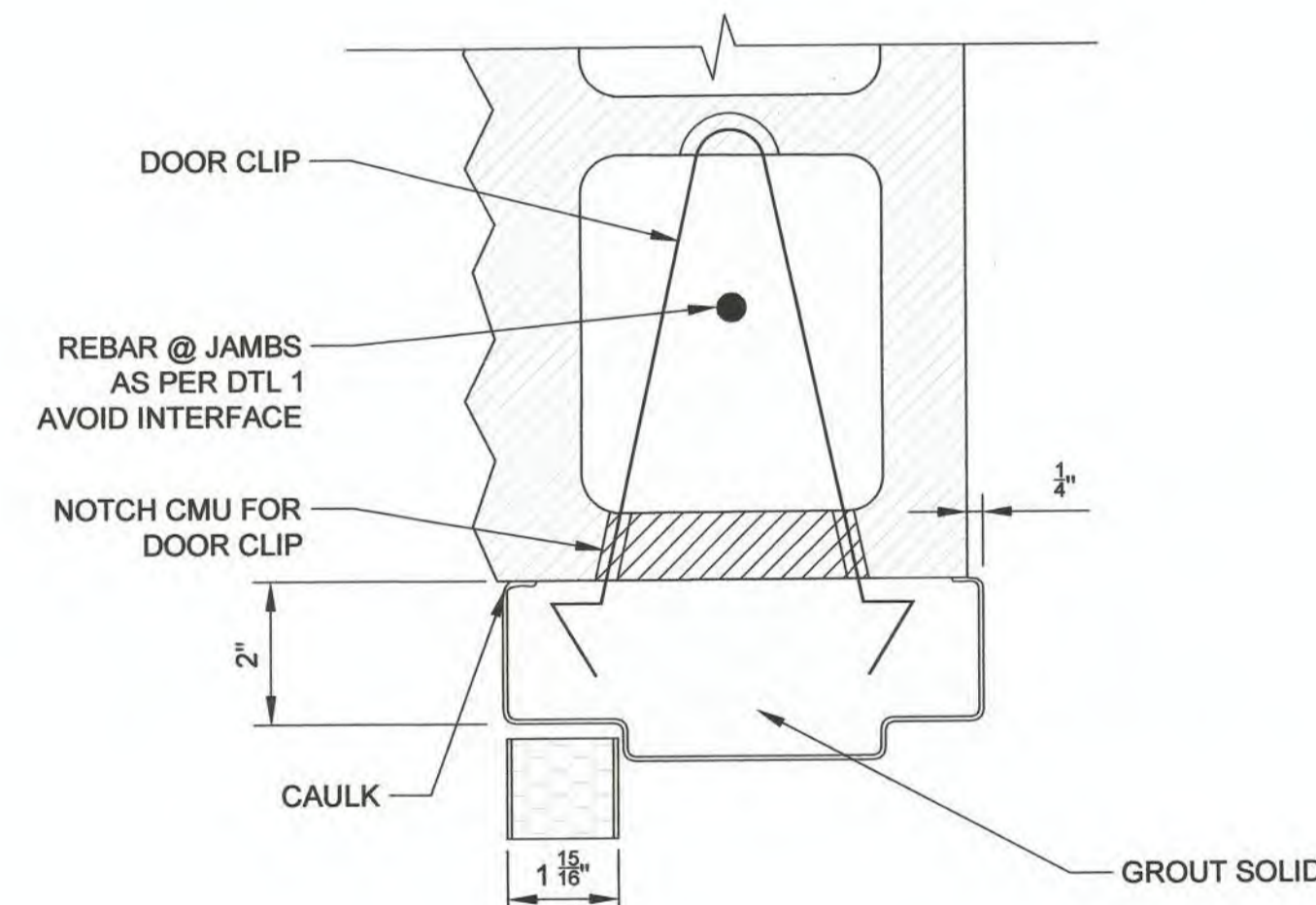
FULLY GROUT ALL CELLS WITH REBAR, MORTAR ALL CROSS WEBS ADJACENT TO GROUTED CELLS

NOTE: HORIZONTAL REBAR TO HOOK VERTICAL REINFORCEMENT WITH STANDARD HOOK AT ALL CORNERS AND OPENING LOCATIONS.

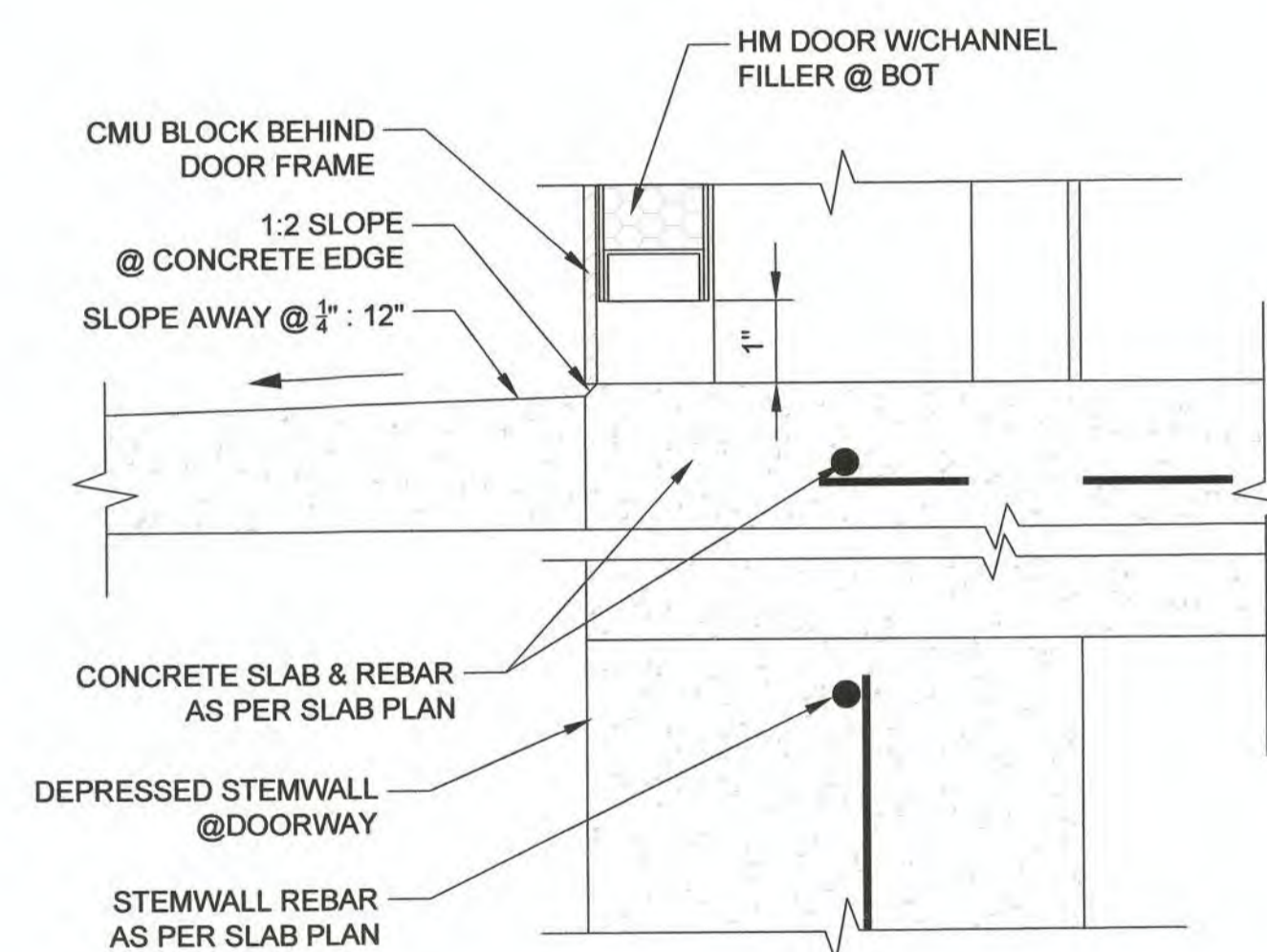


1 CMU REBAR LAYOUT DTL

CMU REBAR NOTES:
 - HOOKS : 180° HOOKS PLUS A MIN 4d EXTENSIONS BUT NO LESS THAN 2 1/2" AS PER ACI 530-08 SECTION 1.15.5
 - BENDS: MIN. INSIDE BEND RADIUS SHALL BE NOT LESS THAN 6d AS PER ACI 530-08 SECTION 1.15.6
 - SPLICES: LAP SPLICES ARE PERMITTED AS PER ACI 530-08 SECTION 2.19.7



7 JAMB DETAIL



8 THRESHOLD DETAIL

REVISION	DATE	COMMENTS

PREPARED UNDER THE DIRECT SUPERVISION OF:

CARLOS BELTRAN
 No. 69121
 EXP 6-30-24
 CIVIL ENGINEER
 STATE OF CALIFORNIA

CB
CARLOS BELTRAN, P.E.
 69121 R.C.E. No.
 06/30/24 REG. EXP.

Dynamic CONSULTING ENGINEERS

CIVIL ENGINEERING - LAND SURVEYING - CONSTRUCTION MANAGEMENT
 2415 IMPERIAL BUSINESS PARK DRIVE, SUITE B.,
 IMPERIAL, CA. 92251
 TEL. (760) 545-0162 FAX (760) 545-0163

PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL

APPROVED BY THE COUNTY OF IMPERIAL:

JOHN GAY
 No. 62028
 EXP 9-30-23
 CIVIL ENGINEER
 STATE OF CALIFORNIA

John Gay
JOHN GAY, P.E.
 PUBLIC WORKS DIRECTOR
 6/6/23 DATE
 62028 R.C.E. No.
 09/30/23 REG. EXP.

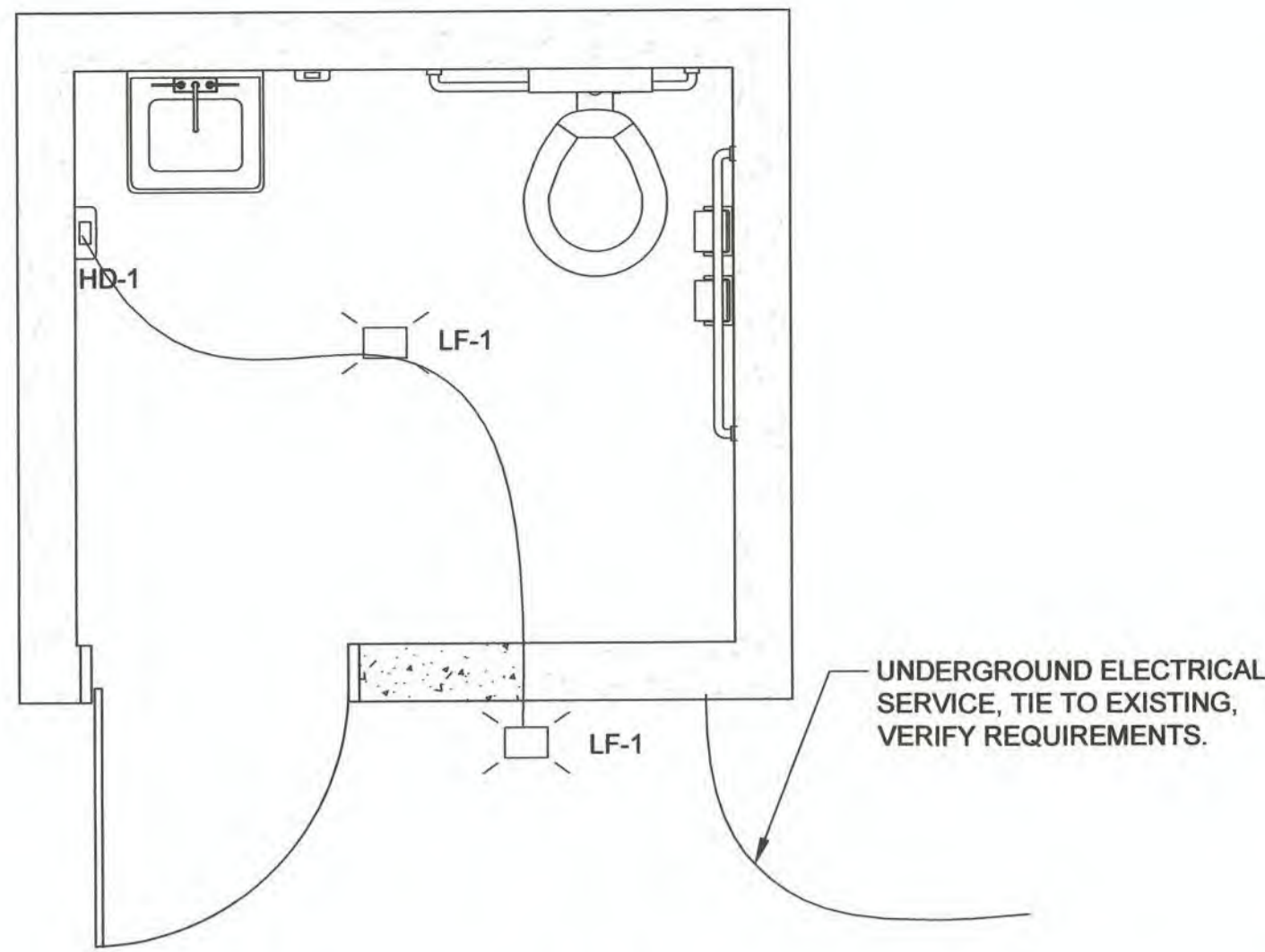
DATE	6/2/2023
DRAWN	DB
SCALE	AS SHOWN
CHECKED	CB

COMMUNITY AND ECONOMIC DEVELOPMENT

IMPROVEMENTS FOR THE WIEST LAKE BOAT LAUNCHING FACILITY PROJECT

RESTROOM FOUNDATION DETAILS

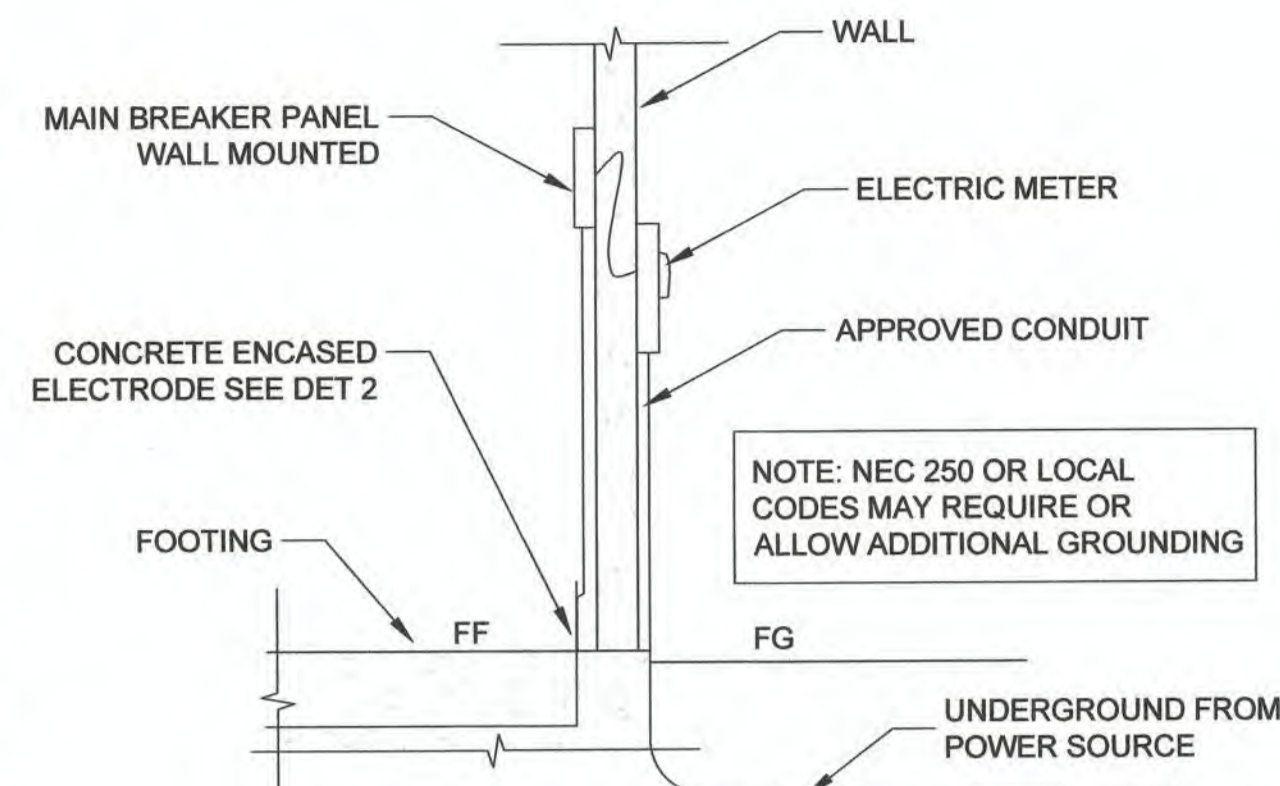
SHEET 23 OF 26



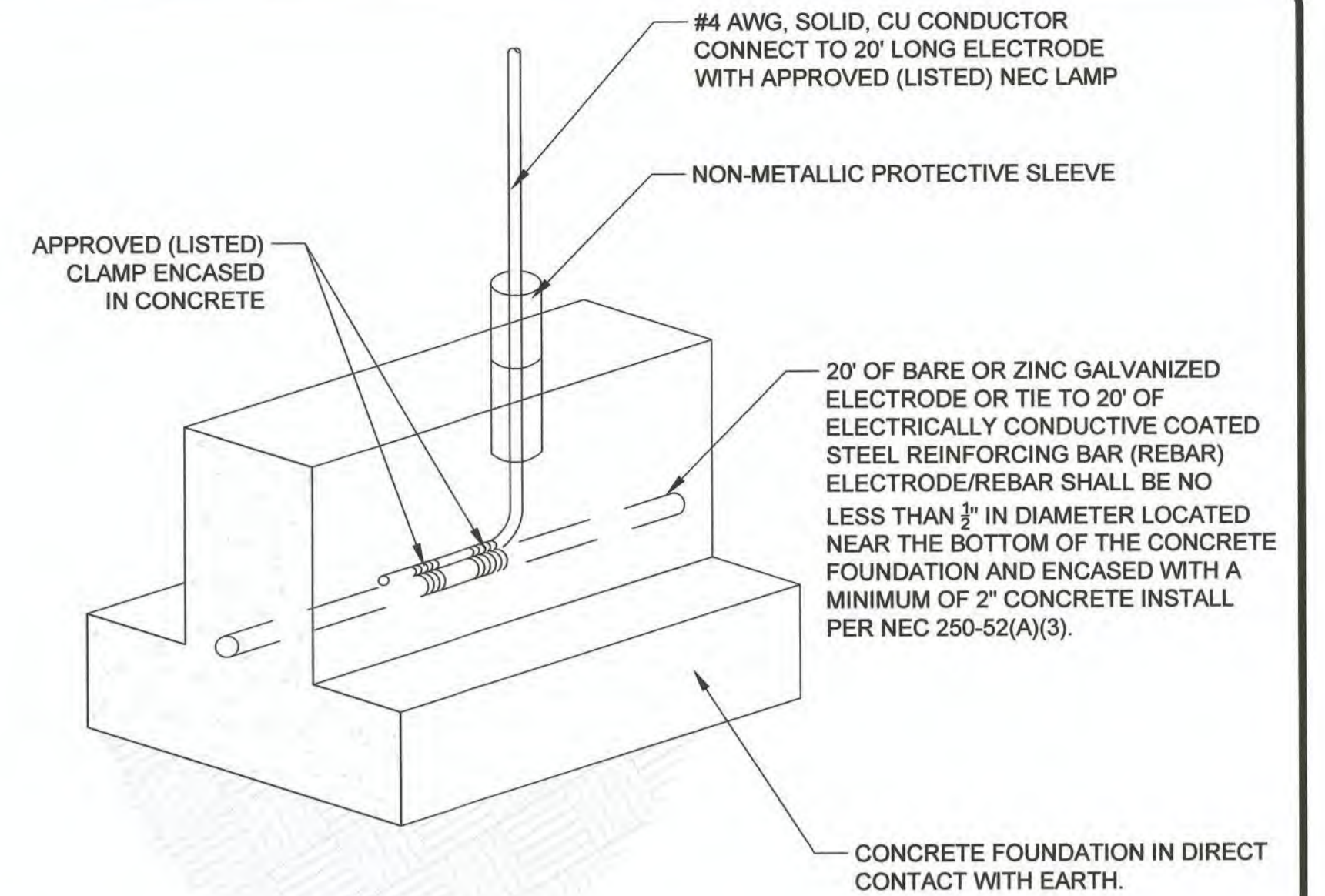
1 ELECTRICAL PLAN N.T.A.

GENERAL ELECTRICAL NOTES:

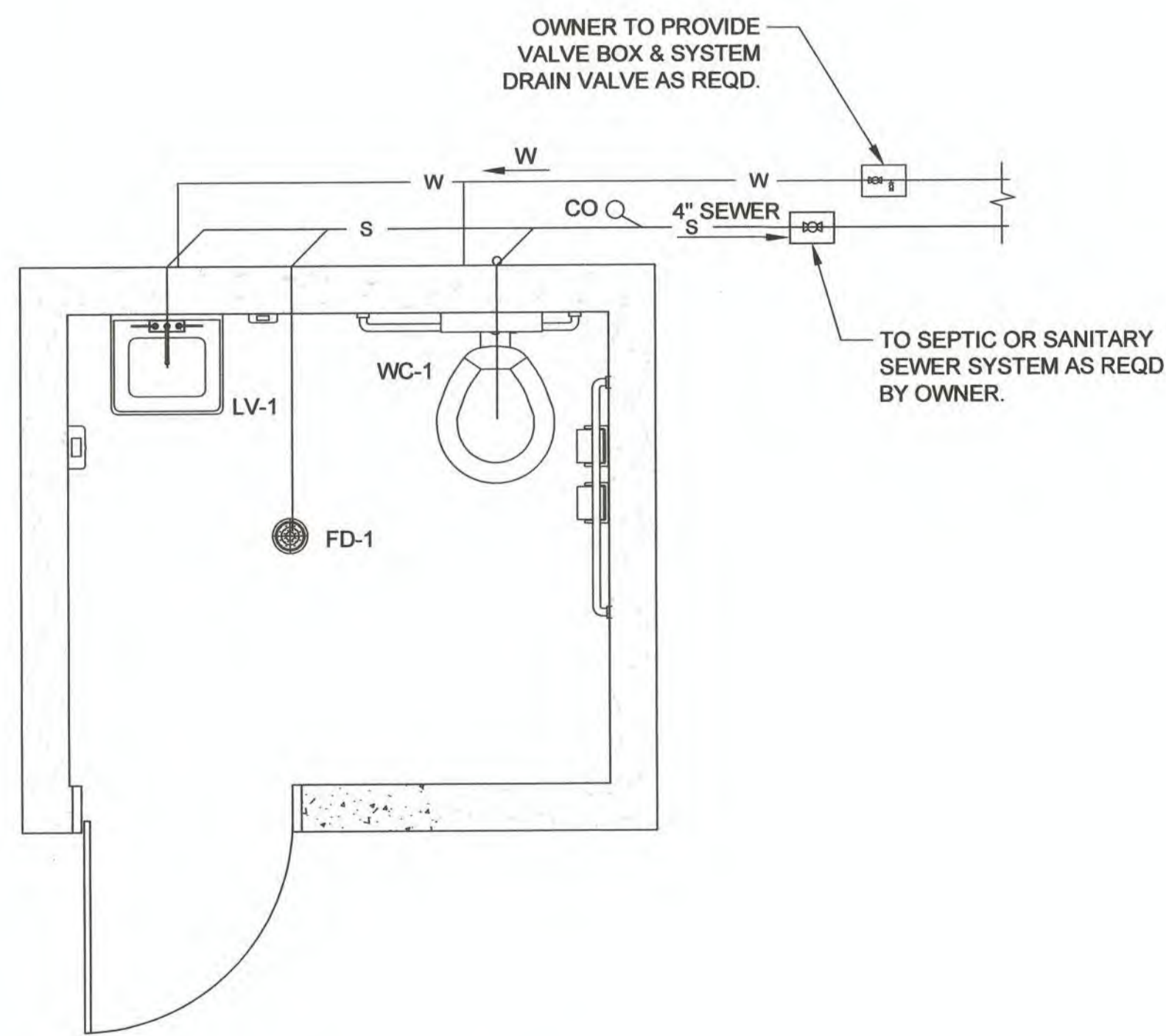
1. ALL WORK SHALL COMPLY WITH NATIONAL ELECTRICAL CODE, STATE AND LOCAL CODES.
2. OWNER TO PROVIDE TEMPORARY POWER AS REQUIRED DURING COURSE OF CONSTRUCTION
3. THE INSTALLER SHALL FURNISH & INSTALL SPECIFICATION GRADE CIRCUIT BREAKERS, WIRING, CONDUIT, GFI RECEPTACLES THROUGHOUT, SWITCHES, AND STAINLESS STEEL COVERPLATES.
4. ELECTRICAL CONDUIT IS TO BE RUN WITHIN THE WALL WHEN POSSIBLE, EXCEPT IN THE MECH ROOM.



2 RISER DIAGRAM N.T.A.



3 CONCRETE ENCASED SERVICE GROUND N.T.A.



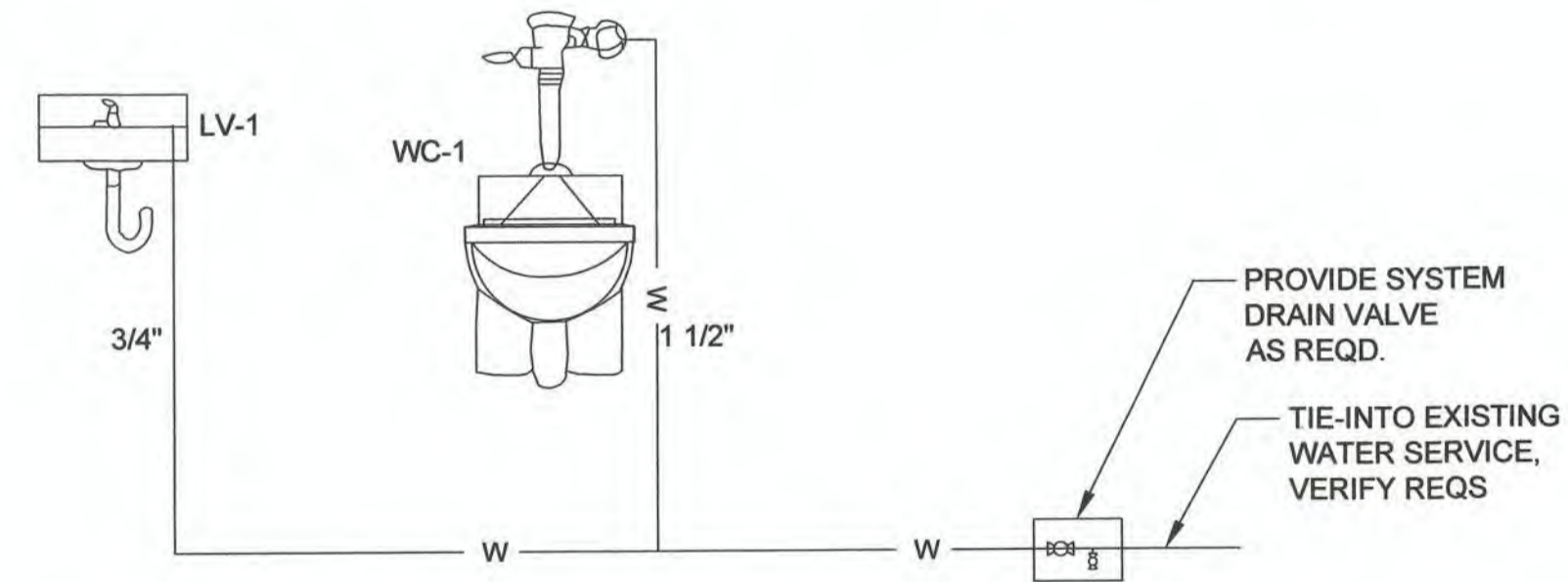
4 PLUMBING PLAN N.T.A.

PLUMBING SCHEDULE				
SYM	FIXTURE	SS	V	CW
WC-1	ADA TOILET	3"	2"	1 1/2"
LV-1	HAND SINK	2"	1 1/2"	1/2"
FD-1	FLOOR DRAIN	2"	1 1/2"	-

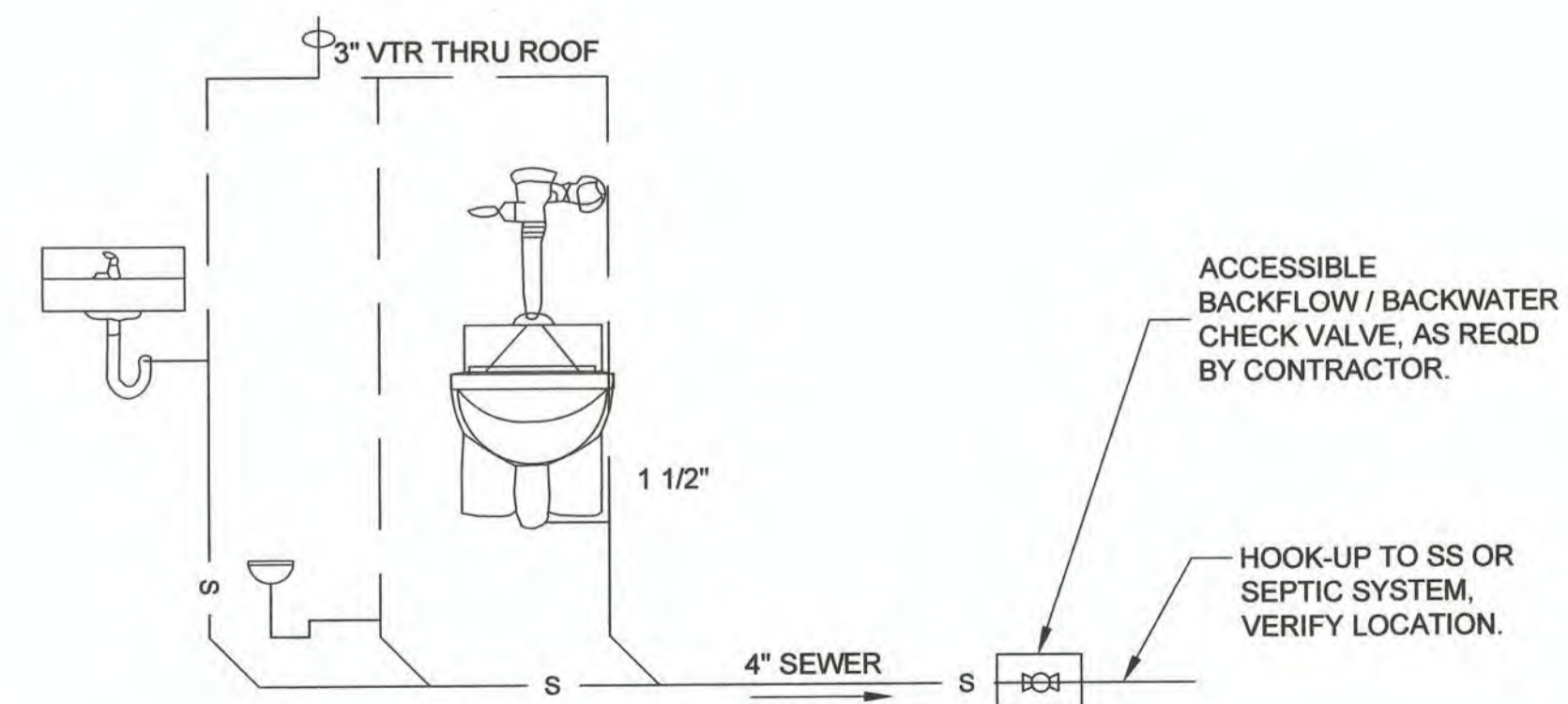
NOTE: PROVIDE CLEAN-OUT BENEATH SINK AS REQUIRED BY CODE

GENERAL PLUMBING NOTES:

1. ALL PIPE (WATER, SEWER, VENT), JOINTS, AND WORK SHALL CONFORM TO UNIFORM PLUMBING CODE, STATE CODES, COUNTY AND LOCAL CODES AND ORDINANCES.
2. CONTRACTOR TO CONFIRM LOCATIONS OF SEWER AND WATER TIE-INS.
3. CONTRACTOR TO SOLIDLY BRACE ALL PIPING TIGHT AGAINST WALLS, FOR LONG OR COMPLICATED RUNS, SECURELY MOUNT USING UNI-STRUT, IN STRAIGHT AND UNIFORM MANNER FOR FINISHED APPEARANCE, PIPING SHOWN IS DIAGRAMMATIC ONLY AND ACTUAL DESIGN BY CONTRACTOR.
4. CONTRACTOR RESPONSIBLE FOR PIPE SIZING AND SHALL PROVIDE ADEQUATE WATER PRESSURE TO ALL PLUMBING FIXTURES.
5. CONTRACTOR TO DETERMINE AND PROVIDE MEANS FOR DRAINING INTERIOR WATER AND SANITARY SEWER SYSTEMS, AS WELL AS SHUTOFF OF ALL FIXTURES, BUILDING SEWER SHALL BE RUN WITH UNIFORM SLOPE OF NOT LESS THAN ONE-FOURTH OF AN INCH. (2%)
6. PRESSURE REDUCING VALVE - BY CONTRACTOR.
7. PLUMBING TO BE DRAINED BY GRAVITY TO SHUTOFF VALVE BOX.
8. FLUSHMETERS ASSOCIATED WITH TOILETS USE NO MORE THAN 1.28 GALLONS PER FLUSH. THE ABOVE SHALL MEET PERFORMANCE STANDARDS BY ANSI A112.19.2 H&S CODE, SECTION 17921.3(b).



6 WATER SUPPLY RISER SCHEMATIC DIAGRAM N.T.A.



6 SANITARY SEWER RISER SCHEMATIC DIAGRAM N.T.A.

REVISION	DATE	COMMENTS

PREPARED UNDER THE DIRECT SUPERVISION OF:

CARLOS BELTRAN
No. 69121
EXP 6-30-24
CIVIL ENGINEER
STATE OF CALIFORNIA

[Signature]
CARLOS BELTRAN, P.E.
6/2/23
DATE

69121
R.C.E. No.

06/30/24
REG. EXP.

Dynamic CONSULTING ENGINEERS

CIVIL ENGINEERING - LAND SURVEYING - CONSTRUCTION MANAGEMENT
2415 IMPERIAL BUSINESS PARK DRIVE, SUITE B.,
IMPERIAL, CA. 92251
TEL. (760) 545-0162 FAX (760) 545-0163

PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL

APPROVED BY THE COUNTY OF IMPERIAL:

[Signature]
JOHN GAY, P.E.
PUBLIC WORKS DIRECTOR
6/6/23
DATE

62028
R.C.E. No.
09/30/23
REG. EXP.

DATE	6/2/2023
DRAWN	DB
SCALE	AS SHOWN
CHECKED	CB

COMMUNITY AND ECONOMIC DEVELOPMENT

IMPROVEMENTS FOR THE WIEST LAKE BOAT LAUNCHING FACILITY PROJECT

RESTROOM FOUNDATION DETAILS

SHEET 24 OF 26

ADA REQUIREMENTS:

- NEW BATHROOM SHALL COMPLY WITH ALL THE REQUIREMENTS OF THE ADA STANDARDS FOR ACCESSIBLE DESIGN CHAPTER 6 "PLUMBING ELEMENTS AND FACILITIES" LATEST EDITION.
- THE WATER CLOSET SHALL BE POSITIONED WITH A WALL OR PARTITION TO THE REAR AND TO ONE SIDE. THE CENTERLINE OF THE WATER CLOSET SHALL BE 16 INCHES MINIMUM TO 18 INCHES MAXIMUM FROM THE SIDE WALL OR PARTITION, EXCEPT THAT THE WATER CLOSET SHALL BE 17 INCHES MINIMUM AND 19 INCHES MAXIMUM FROM THE SIDE WALL OR PARTITION IN THE AMBULATORY ACCESSIBLE TOILET COMPARTMENT SPECIFIED IN 604.8.2. WATER CLOSETS SHALL BE ARRANGED FOR A LEFT-HAND OR RIGHT-HAND APPROACH.
- CLEARANCE AROUND A WATER CLOSET SHALL BE 60 INCHES MINIMUM MEASURED PERPENDICULAR FROM THE SIDE WALL AND 56 INCHES MINIMUM MEASURED PERPENDICULAR FROM THE REAR WALL.
- THE SEAT HEIGHT OF A WATER CLOSET ABOVE THE FINISH FLOOR SHALL BE 17 INCHES MINIMUM AND 19 INCHES MAXIMUM MEASURED TO THE TOP OF THE SEAT. SEATS SHALL NOT BE SPRUNG TO RETURN TO A LIFTED POSITION.
- GRAB BARS FOR WATER CLOSETS SHALL COMPLY WITH 609. GRAB BARS SHALL BE PROVIDED ON THE SIDE WALL CLOSEST TO THE WATER CLOSET AND ON THE REAR WALL.
- THE SIDE WALL GRAB BAR SHALL BE 42 INCHES LONG MINIMUM, LOCATED 12 INCHES MAXIMUM FROM THE REAR WALL AND EXTENDING 54 INCHES MINIMUM FROM THE REAR WALL.
- THE REAR WALL GRAB BAR SHALL BE 36 INCHES LONG MINIMUM AND EXTEND FROM THE CENTERLINE OF THE WATER CLOSET 12 INCHES MINIMUM ON ONE SIDE AND 24 INCHES MINIMUM ON THE OTHER SIDE
- FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHALL COMPLY WITH 309. FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET EXCEPT IN AMBULATORY ACCESSIBLE COMPARTMENTS COMPLYING WITH 604.8.2.
- TOILET PAPER DISPENSERS SHALL COMPLY WITH 309.4 AND SHALL BE 7 INCHES MINIMUM AND 9 INCHES (230 MM) MAXIMUM IN FRONT OF THE WATER CLOSET MEASURED TO THE CENTERLINE OF THE DISPENSER. THE OUTLET OF THE DISPENSER SHALL BE 15 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FINISH FLOOR AND SHALL NOT BE LOCATED BEHIND GRAB BARS. DISPENSERS SHALL NOT BE OF A TYPE THAT CONTROLS DELIVERY OR THAT DOES NOT ALLOW CONTINUOUS PAPER FLOW.
- LAVATORIES AND SINKS SHALL COMPLY WITH 606.
- A CLEAR FLOOR SPACE COMPLYING WITH 305, POSITIONED FOR A FORWARD APPROACH, AND KNEE AND TOE CLEARANCE COMPLYING WITH 306 SHALL BE PROVIDED.
- LAVATORIES AND SINKS SHALL BE INSTALLED WITH THE FRONT OF THE HIGHER OF THE RIM OR COUNTER SURFACE 34 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

STRUCTURAL GENERAL NOTES:

GENERAL INFORMATION:

- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SHORING AND TEMPORARY SUPPORTS TO ENSURE THE STABILITY OF THE PORTIONS OF THE STRUCTURE BEING CONSTRUCTED, THE CONTRACTOR SHALL RETAIN A CALIFORNIA REGISTERED ENGINEER TO DESIGN ALL NECESSARY SHORING AND TEMPORARY SUPPORTS.
- DESIGN LOADS ARE FOLLOWS:

ROOF LIVE LOAD	20 PSF
ROOF DEAD LOAD	30 PSF
WALL DEAD LOAD	140 PSF
IBC SEISMIC DESIGN CATEGORY	D
DESIGN WIND SPEED	90 MPH
ALLOWABLE SOIL BEARING	2,000 PSF
- REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DRAWINGS FOR INSERTS, SLEEVES, CURBS, PADS, PLAN ETC., THAT AFFECT STRUCTURAL WORK. SEE TYPICAL DETAILS FOR FRAMING AROUND MISC. OPENINGS.
- CONTRACTOR TO VERIFY LOCATIONS OF ALL BURIED UTILITY PIPES PRIOR TO EXCAVATION FOR THE BUILDING FOUNDATIONS. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED OF POTENTIAL CONFLICTS BETWEEN THE FOUNDATIONS AND ANY BURIED UTILITY PIPES.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO ORDERING ANY MATERIALS, AND SHALL IMMEDIATELY NOTIFY THE ENGINEER WHERE CONDITIONS VARY FROM WHAT ARE SHOWN ON THE DRAWINGS.

REINFORCED CONCRETE:

- ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 301-10 SPECIFICATIONS FOR STRUCTURE, CONCRETE AS WELL AS ACI 318-08.
- SHOP DRAWINGS SHOWING ALL FABRICATION DIMENSIONS AND LOCATIONS FOR PLACING OF THE REINFORCING STEEL AND ACCESSORIES SHALL BE SUBMITTED FOR REVIEW TO THE ENGINEER, NO FABRICATION SHALL BEGIN UNTIL SHOP DRAWINGS ARE REVIEWED AND APPROVED.
- UNLESS NOTED OTHERWISE, DETAILS OF CONCRETE REINFORCEMENT AND ACCESSORIES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 315, MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, AND CRSI MSP-1, MANUAL OF STANDARD PRACTICE, LATEST EDITIONS.
- CONCRETE: UNLESS NOTED OTHERWISE, 28 DAY COMPRESSIVE STRENGTH OF CAST-IN-PLACE CONCRETE FOR EACH PORTION OF STRUCTURE SHOULD BE AS FOLLOWS:

FOOTINGS, SLAB ON GRADE	4,000 PSI
CONCRETE BEAMS / COLUMNS	4,000 PSI
CONCRETE SLUMP	3" MIN. TO 5" MAX.
- REINFORCING STEEL:
 - ASTM A615 GRADE 60 U.N.O
 - WELDED WIRE FABRIC: ASTM A185.
 - ALL CONCRETE SHALL BE REINFORCED UNLESS SPECIFICALLY MARKED "NOT REINFORCED" OR "UNREINFORCED".
 - CONTRACTOR SHALL DETAIL AND PLACE ALL REINFORCEMENT IN ACCORDANCE WITH ACI SP-66, ACI 301-10, ACI 318-08, AND CRSI MSP-1 MANUAL OF STANDARD PRACTICE.
 - MINIMUM CONCRETE CLEAR COVER OVER REINFORCEMENT SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:
 - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3".
 - CONCRETE EXPOSED TO EARTH OR WEATHER: #6 THROUGH #11 BARS - 2"; #5 ANS SMALLER BARS, WELDED WIRE FABRIC - 1 1/2".
 - EMBEDMENT AND LAP SPLICE LENGTHS FOR ALL REINFORCING STEEL BARS SHALL CONFORM TO THE FOLLOWING PROVISIONS, UNLESS NOTED OTHERWISE:
 - MINIMUM STRAIGHT EMBEDMENT LENGTHS:

(A) #3 - 11"	#6 - 22"	#9 - 41"
(B) #4 - 15"	#7 - 32"	#10 - 46"
(C) #5 - 18"	#8 - 36"	#11 - 51"
 - MINIMUM LAP SPLICE LENGTHS:

(A) #3 - 14"	#6 - 28"	#9 - 53"
(B) #4 - 19"	#7 - 41"	#10 - 59"
(C) #5 - 24"	#8 - 47"	#11 - 66"
 - MINIMUM HOOK EMBEDMENT LENGTHS:

(A) #3 - 8"	#6 - 15"	#9 - 22"
(B) #4 - 10"	#7 - 17"	#10 - 25"
(C) #5 - 12"	#8 - 19"	#11 - 27"
 - HORIZONTAL BARS HAVING MORE THAN 12" OF CONCRETE PLACED BELOW THEM SHALL BE CONSIDERED TOP REINFORCEMENT AND SHALL HAVE MINIMUM STRAIGHT EMBEDMENT AND LAP SPLICE LENGTHS INCREASED BY NOT LESS THAN 30% OVER THOSE GIVE ABOVE.
 - HOOK EMBEDMENT IS THE MINIMUM STRAIGHT LINE DISTANCE FROM THE CRITICAL SECTION OF THE BAR TO THE FARTHEST EDGE OF THE HOOK.
 - WELDING OR TACK WELDING OF REINFORCING STEEL SHALL NOT BE PERMITTED EXCEPT AS AUTHORIZED OR DIRECTED BY THE STRUCTURAL ENGINEER OR HIS REPRESENTATIVE.
- FORMWORK:
 - CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN, ENGINEERING AND STRUCTURAL ADEQUACY AND CONSTRUCTION OF ALL CONCRETE FORMWORK IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS.
 - COORDINATE ALL CONCRETE WORK WITH THE PLACEMENT OF PIPING, INSERTS, FLOOR DRAINS AND OTHER EMBEDDED ITEMS INDICATED ON THE CONTRACT DRAWINGS OR IN THE CONTRACT SPECIFICATIONS.
 - ALL NEW OR EXISTING PIPING OR UTILITIES PASSING THROUGH NEW CONCRETE SHALL BE CAST-IN, UNLESS NOTED OTHERWISE.
 - PROVIDE 3/4" CHAMFER STRIPS ON ALL EDGES OF EXPOSED CONCRETE, UNLESS NOTED OTHERWISE.
 - WITH THE EXPLICIT PRIOR APPROVAL IN WRITING OF THE ENGINEER, COLUMN FOOTINGS MAY BE EARTH-FORMED USING UNDISTURBED NATIVE SOIL. PROVIDE A MINIMUM EXCAVATION WIDTH 4" GREATER THAN INDICATED, AND A DEPTH 2" GREATER THAN INDICATED.
- JOINTS:
 - LOCATE ALL CONSTRUCTION, CONTRACTION, ISOLATION, EXPANSION, AND OTHER JOINTS AS INDICATED OR SPECIFIED, OR OTHERWISE APPROVED BY THE ENGINEER.
 - SURFACES OF ALL HORIZONTAL AND VERTICAL CONSTRUCTION JOINTS SHALL BE CLEANED OF LAITANCE AND SHALL EXPOSE CLEAN COARSE AGGREGATE SOLIDLY EMBEDDED IN MORTAR MIX. JUST PRIOR TO DEPOSITING CONCRETE, SURFACE OF CONSTRUCTION JOINT SHALL BE THOROUGHLY CLEANED AND WETTED.
 - SAWCUT CONTROL JOINTS AS SOON AS POSSIBLE AFTER INITIAL SET.

MASONRY:

- MATERIALS, TESTING OF MATERIALS AND STORAGE OF MATERIALS SHALL CONFORM TO ACI STANDARD "SPECIFICATIONS FOR MASONRY STRUCTURES AND BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (ACI 530-08 AND 530.1-05).
- ALL CONCRETE MASONRY UNITS ARE TO BE GRADE N-2, CONFORMING TO ASTM C-90. WITH A NET AREA MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 1,900 PSI. MORTAR SHALL BE TYPE S WITH A MINIMUM COMPRESSIVE STRENGTH OF 1,900 PSI. MINIMUM GROUT STRENGTH SHALL BE 2500 PSI.
- MORTAR JOINTS SHALL NOT EXCEED 5/8" THICKNESS IN CONCEALED AREAS AND WITHIN SPECIFIED TOLERANCES IN AREAS EXPOSED TO VIEW. WHERE VERTICAL AND HORIZONTAL ALIGNMENT WOULD CAUSE MORTAR JOINTS TO BE LESS THAN 1/4" OR MORE THAN 5/8" THICK IT SHALL BE CORRECTED PRIOR TO COMMENCING MASONRY CONSTRUCTION.
- PIPES OR CONDUITS MAY PENETRATE HORIZONTALLY THROUGH MASONRY WALLS BY MEANS OF A GALVANIZED STEEL SLEEVE NO THINNER THAN STANDARD WEIGHT (SCHEDULE 40), ASTM A53, SOLIDLY SET IN PLACE. PLACE SLEEVES NOT CLOSER THAN THREE DIAMETERS ON CENTER, MAXIMUM SIZE OF SLEEVE SHALL DE 12".
- MAXIMUM SIZE OF EMBEDDED VERTICAL PIPE OR CONDUIT IN A BEARING WALL SHALL NOT EXCEED 1/3 OF WALL THICKNESS PIPES SHALL NOT BE PLACED CLOSER THAN THREE DIAMETERS ON CENTER.
- HORIZONTAL JOINT REINFORCEMENT SHALL BE 8 GAGE DEFORMED, GALVANIZED, LADDER TYPE AND SPACED 16" O.C. UNLESS NOTED OTHERWISE, JOINT REINFORCEMENT SHALL BE FULLY EMBEDDED IN MORTAR WITH MINIMUM COVER OF 5/8".
- USE A MINIMUM LAP OF 48" BAR DIAMETERS FOR ALL MASONRY REINFORCING, FILL ALL REINFORCED CELLS WITH GROUT FOR FULL HEIGHT. ALL CELLS LOCATED BELOW GRADE SHALL BE FILLED WITH GROUT. REINFORCED CELLS ADJACENT TO DOOR, AND DOOR OPENINGS IN ACCORDANCE WITH PLANS.
- ALIGN VERTICAL CORE EVENLY FOR THE FULL HEIGHT WHERE CELLS ARE TO BE GROUTED. GROUT IN VERTICAL CORES SHALL NOT BE PLACED IN LIFTS GREATER THAN 5 FEET. PROVIDE CLEANOUTS WHEN GROUTING BLOCK CELLS.
- MASONRY WALLS MUST BE BRACED DURING ERECTION FOR WIND AND CONSTRUCTIONS LOADS. BRACES MUST BE DESIGNED CONSTRUCTED AND ERECTED IN A FASHION AS TO PREVENT PERMANENT SCARRING OF MASONRY SURFACES AT THE EXPOSED CONDITIONS.
- ALL MASONRY WORK SHALL BE INSPECTED.

STRUCTURAL STEEL:

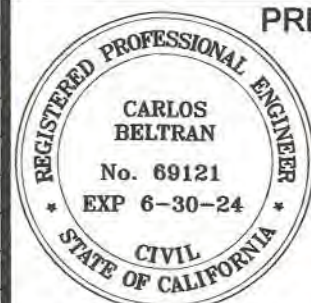
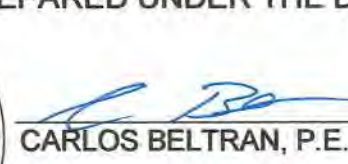

- SHALL CONFORM TO ASTM A36, PROVIDE ONE SHOP OF RUST INHIBITING PAINT (MINIMUM 3 MIL. DRY FILM THICKNESS) ON STRUCTURAL STEEL, WHICH SHALL BE FABRICATED ARE ERECTED IN ACCORDANCE WITH THE PROVISIONS OF THE AISC "STEEL CONSTRUCTION MANUAL", LATEST EDITION. SUBMIT SHOP DRAWINGS. ALL TUBING TO HAVE A YIELD STRENGTH OF Fy=46 KSI AND CONFORM TO ASTM A500 GRADE B.
- ALL WELDING IS TO BE PERFORMED BY CERTIFIED WELDERS. IMMEDIATELY AFTER ERECTION, CLEAN WELDS AND TOUCH UP PAINTING (MIN. 4 MIL. FILM THICKNESS). ELECTRODES SHALL BE E-70 SERIES, LOW HYDROGEN, STORED IN ACCORDANCE WITH A.W.S. REQUIREMENTS. ALL WELDS SHALL BE CONTINUOUS. WELDING PROCEDURES ARE REQUIRED TO BE SUBMITTED AND APPROVED BY STRUCTURAL ENGINEER.
- PROTECTIVE COATING: ALL STRUCTURAL STEEL SHALL BE PAINTED W/SELF-CURING INORGANIC ZINC COATING SYSTEM.

STRUCTURAL SUBMITTALS:

- SHOP DRAWINGS. THE FOLLOWINGS SHOP DRAWINGS SHALL BE SUBMITTED:
 - REINFORCING STEEL.
 - EMBEDDED ITEMS.
 - CONCRETE MIX DESIGN.
 - STRUCTURAL STEEL.
- CONTRACTOR SHALL SUPPLY SHOP DRAWINGS, SUBMIT MINIMUM TWO SETS TO ENGINEER FOR REVIEW. INDICATE ISSUE DATE OR LATEST REVISION DATE OR RELATED STRUCTURAL PLAN (S) AND NAME OF PERSON RESPONSIBLE FOR CHECKING. SHOP DRAWINGS SHALL BEAR CONTRACTOR'S SIGNED STAMP CERTIFYING OF APPROVAL OF SUBMITTAL, VERIFICATIONS, AND COORDINATION OF THE SUBMITTAL WITH REQUIREMENTS OF THE WORK AND THE CONTRACT DOCUMENTS.


REVISION	DATE	COMMENTS

PREPARED UNDER THE DIRECT SUPERVISION OF:

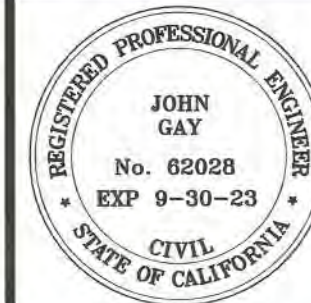
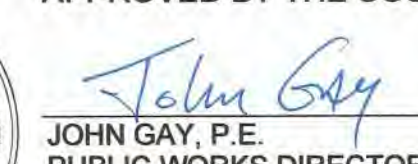

		69121 R.C.E. No.
	CARLOS BELTRAN, P.E.	
		06/30/24 REG. EXP.
	DATE	

Dynamic CONSULTING ENGINEERS

CIVIL ENGINEERING - LAND SURVEYING - CONSTRUCTION MANAGEMENT
2415 IMPERIAL BUSINESS PARK DRIVE, SUITE B.,
IMPERIAL CA. 92251
TEL. (760) 545-0162 FAX (760) 545-0163

 PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL

APPROVED BY THE COUNTY OF IMPERIAL:

		62028 R.C.E. No.
	JOHN GAY, P.E. PUBLIC WORKS DIRECTOR	
		09/30/23 REG. EXP.
	DATE	

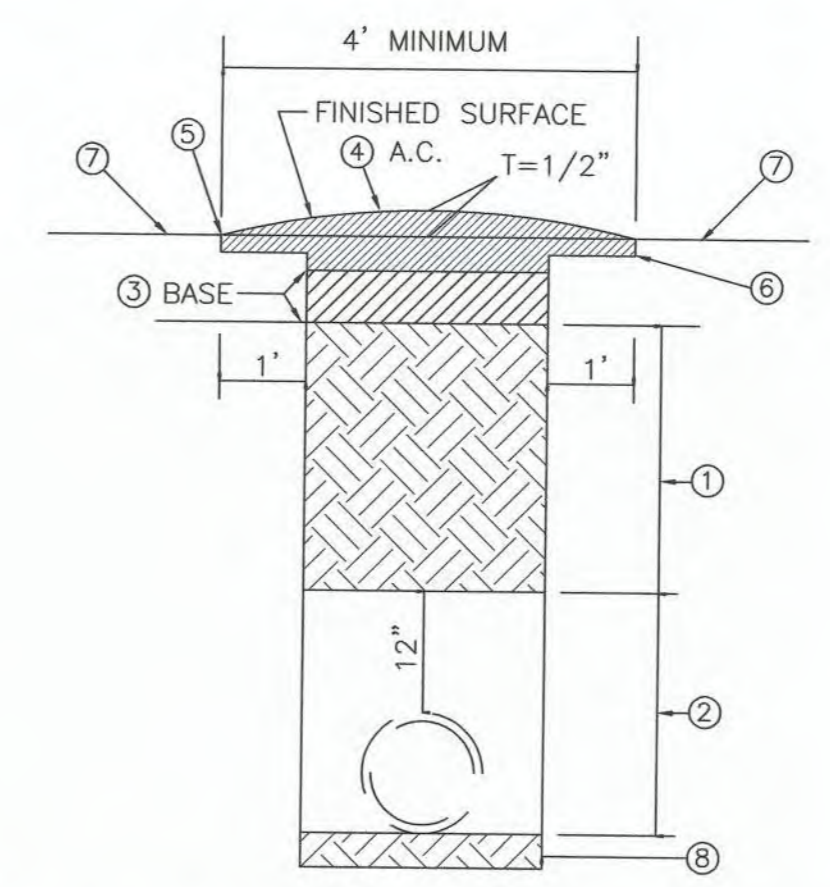
DATE	6/2/2023
DRAWN	DB
SCALE	AS SHOWN
CHECKED	CB

COMMUNITY AND ECONOMIC DEVELOPMENT

IMPROVEMENTS FOR THE WIEST LAKE BOAT LAUNCHING FACILITY PROJECT

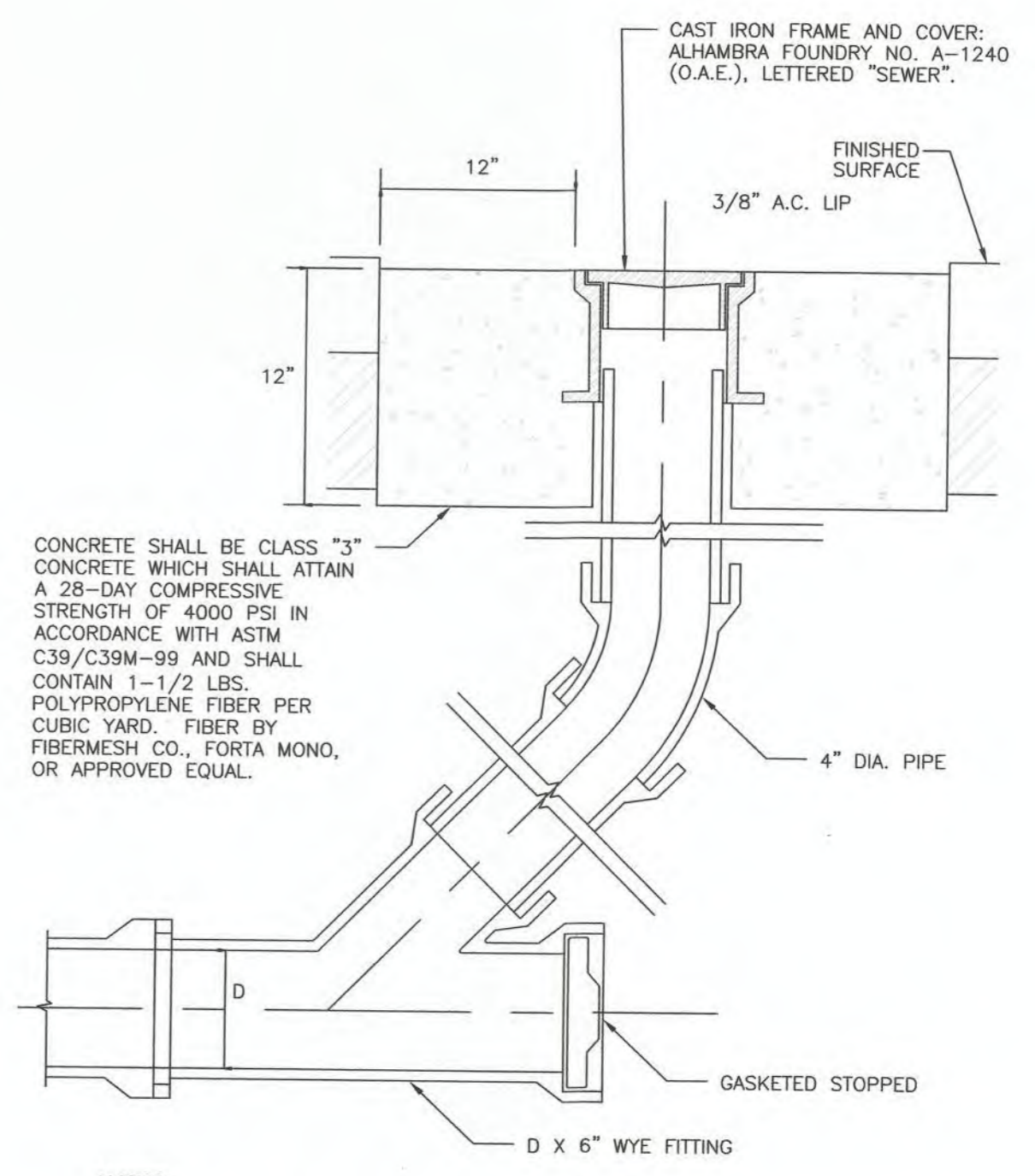
RESTROOM SPECIFICATIONS

SHEET 25 OF 26



- NOTES:
- BACKFILL - NATIVE OR IMPORT, COMPACTED TO 90% RELATIVE DENSITY. IF NOT IN A ROADWAY, 90% RELATIVE DENSITY IS REQUIRED TO FINISHED SURFACE.
 - PIPE BEDDING - COMPACT TO 85% RELATIVE DENSITY. BEDDING MATERIAL SHALL MEET CALTRANS SPECIFICATIONS 26-1.02A & 26-1.02B, 100% PASSING 19MM SIEVE, SAND EQUIVALENT 25 MIN.
 - A MINIMUM 6" OF AGGREGATE BASE CLASS 2 TO BE COMPACTED TO 95% RELATIVE DENSITY IN PAVED SECTIONS.
 - A.C. PAVING - MATCH EXISTING THICKNESS WITH NEW A.C., MIN. 4" - 2 LIFTS.
 - TRENCH OVERLAY SHALL EXTEND A MIN. OF 1 FT. OUTSIDE THE TRENCH CUT. IN NO CASE SHALL THE FINISHED PAVING BE LESS THAN 4 FT. IN WIDTH.
 - GRIND 1" x 0.12' HEADER EACH SIDE OF TRENCH. APPLY TACK COAT TO ENTIRE SURFACE.
 - THE COUNTY MAY DIRECT THAT REMAINING PORTIONS OF A.C. PAVEMENT ADJACENT TO TRENCH EDGE, MEASURING LESS THAN 6 FEET IN ANY DIMENSION, BE REMOVED AND REPLACED.
 - OVEREXCAVATION BELOW PIPE LAYING GRADE SHALL BE RECOMPACTED TO 90% MAXIMUM DENSITY, INSPECTED AND APPROVED PRIOR TO PIPE PLACEMENT.

TRENCH REPLACEMENT DETAIL (FOR NEW UTILITIES)



CONCRETE SHALL BE CLASS "3" CONCRETE WHICH SHALL ATTAIN A 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI IN ACCORDANCE WITH ASTM C39/C39M-99 AND SHALL CONTAIN 1-1/2 LBS. POLYPROPYLENE FIBER PER CUBIC YARD. FIBER BY FIBERMESH CO., FORTA MONO, OR APPROVED EQUAL.

- NOTES:
- CLEANOUT RING AND COVER SHALL BE RAISED TO FINISHED GRADE AND SUPPORT COLLAR INSTALLED AFTER PAVING OR FINE GRADING.
 - D= DIAMETER OF MAIN LINE PIPE.

STANDARD CLEANOUT

REVISION	DATE	COMMENTS

PREPARED UNDER THE DIRECT SUPERVISION OF:

CARLOS BELTRAN
No. 69121
EXP 6-30-24
CIVIL
STATE OF CALIFORNIA

Carlos Beltran
CARLOS BELTRAN, P.E.
DATE: 6/2/22

69121 R.C.E. No.
06/30/24 REG. EXP.

Dynamic CONSULTING ENGINEERS

CIVIL ENGINEERING - LAND SURVEYING - CONSTRUCTION MANAGEMENT
2415 IMPERIAL BUSINESS PARK DRIVE, SUITE B.,
IMPERIAL, CA. 92251
TEL. (760) 545-0162 FAX (760) 545-0163

PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL

APPROVED BY THE COUNTY OF IMPERIAL:

JOHN GAY
No. 62028
EXP 9-30-23
CIVIL
STATE OF CALIFORNIA

John Gay
JOHN GAY, P.E.
PUBLIC WORKS DIRECTOR
DATE: 6/6/23

62028 R.C.E. No.
09/30/23 REG. EXP.

DATE	6/2/2023
DRAWN	DB
SCALE	AS SHOWN
CHECKED	CB

COMMUNITY AND ECONOMIC DEVELOPMENT

IMPROVEMENTS FOR THE WIEST LAKE BOAT LAUNCHING FACILITY PROJECT

EXISTING AND PROPOSED UTILITIES

SHEET 26 OF 26

NOTES:

THE CONTRACTOR SHALL COMPLY AT MINIMUM WITH THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THIS PLANS. THE CONTRACTOR SHALL MODIFY THE EROSION AND SEDIMENT CONTROL PLAN AND IMPLEMENT NEW MEASURES AS NEEDED TO ASSURE COMPLIANCE WITH THE LATEST REQUIREMENTS OF THE STATE WATER RESOURCES CONTROL BOARD (SWRCB)

ALL PRIVATE AND PUBLIC STORM WATER CONVEYANCE SYSTEMS, SIDEWALKS, PUBLIC RIGHT-OF-WAYS, ETC. SHALL BE PROTECTED FROM POLLUTANT DISCHARGES AND MAINTAINED IN A NEAT AND CLEAN CONDITION FREE OF SEDIMENT, CONSTRUCTION MATERIAL, WASTE, MISCELLANEOUS DEBRIS AND DETERIORATED EROSION AND SEDIMENT CONTROLS.

CONTRACTOR TO PREPARE AND IMPLEMENT A DUST CONTROL PLAN PER IMPERIAL COUNTY AIR POLLUTION CONTROL DISTRICT (APCD) REQUIREMENTS.

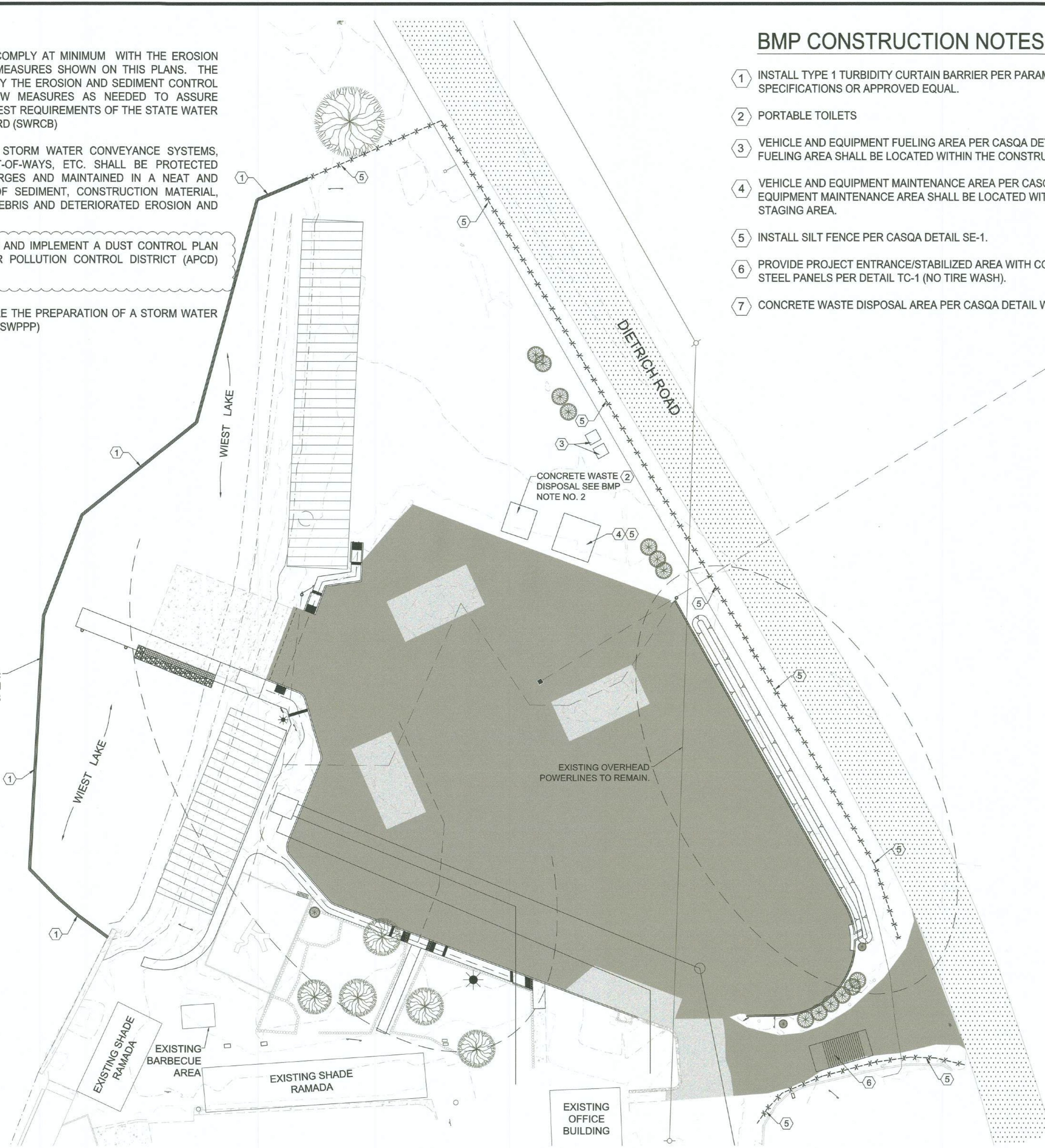
THIS PROJECT WILL REQUIRE THE PREPARATION OF A STORM WATER POLLUTION CONTROL PLAN (SWPPP)

BMP CONSTRUCTION NOTES:

1. INSTALL TYPE 1 TURBIDITY CURTAIN BARRIER PER PARAMOUNT MATERIALS SPECIFICATIONS OR APPROVED EQUAL.
2. PORTABLE TOILETS
3. VEHICLE AND EQUIPMENT FUELING AREA PER CASQA DETAIL NS-9. EQUIPMENT FUELING AREA SHALL BE LOCATED WITHIN THE CONSTRUCTION STAGING AREA.
4. VEHICLE AND EQUIPMENT MAINTENANCE AREA PER CASQA DETAIL NS-10. THE EQUIPMENT MAINTENANCE AREA SHALL BE LOCATED WITHIN THE CONSTRUCTION STAGING AREA.
5. INSTALL SILT FENCE PER CASQA DETAIL SE-1.
6. PROVIDE PROJECT ENTRANCE/STABILIZED AREA WITH CORRUGATED STEEL PANELS PER DETAIL TC-1 (NO TIRE WASH).
7. CONCRETE WASTE DISPOSAL AREA PER CASQA DETAIL WM-8.

EROSION AND SEDIMENT CONTROL NOTES:

1. FILTERED RUNOFF. ALL RUNOFF SHALL BE FILTERED PRIOR TO DISCHARGING FROM A SITE OR TO ANY TYPE OF PRIVATE OR PUBLIC STORM WATER CONVEYANCE SYSTEM (NATURAL WATERCOURSES, STREETS, GUTTERS, CONCRETE-LINED V-DITCHES, STORM DRAINS, FLOW-LINES, INLETS, OUTLETS, ETC.). ALL NON-PERMITTED DISCHARGES ARE PROHIBITED FROM ENTERING ANY STORM WATER CONVEYANCE SYSTEM YEAR-ROUND
2. BEST MANAGEMENT PRACTICES (BMP'S). POLLUTION PREVENTION MEASURES, ALSO KNOWN AS BEST MANAGEMENT PRACTICES (BMP'S), MUST BE INSTALLED PRIOR TO ANY FIELD ACTIVITIES. THE DEVELOPER/CONTRACTOR IS RESPONSIBLE FOR ESC (EROSION AND SEDIMENT CONTROL) MEASURES THROUGHOUT THE DURATION OF THE PROJECT FOR ALL CLEARING, DISKING, GRADING, EXCAVATING AND STOCKPILING ACTIVITIES, AND ON ALL EXPOSED SLOPES AND INACTIVE PADS THROUGHOUT THE ENTIRE SITE. THE DEVELOPER/CONTRACTOR IS ALSO RESPONSIBLE FOR ANY DISCHARGES FROM SUBCONTRACTORS.
3. EROSION AND SEDIMENT CONTROLS. ALL ESC MEASURES SHALL BE INSPECTED, RESTORED, REPAIRED OR MODIFIED YEAR-ROUND THROUGHOUT THE SITE TO PROTECT PERIMETERS, ADJACENT PROPERTIES, ENVIRONMENTALLY SENSITIVE AREAS AND ALL PRIVATE/PUBLIC STORM WATER CONVEYANCE SYSTEMS. IF ANY EROSION OR SEDIMENT CONTROLS FAIL DURING ANY RAIN EVENT, MORE EFFECTIVE ONES WILL BE REQUIRED IN THEIR PLACE.
 - a. EROSION CONTROLS. EROSION CONTROLS SHALL INCLUDE, BUT ARE NOT LIMITED TO: APPLYING AND ESTABLISHING: VEGETATIVE COVER, WOOD MULCH, STAPLED OR PINNED BLANKETS (STRAW, COCONUT OR OTHER), PLASTIC SHEETING (MINIMUM 10-MIL), POLYPROPYLENE MATS, SPRAY-ON CONTROLS TO ALL DISTURBED AREAS OR OTHER MEASURES APPROVED BY THE COUNTY PUBLIC WORKS DEPARTMENT. JUTE NETTING SHALL NOT BE USED AS A STAND-ALONE EROSION CONTROL. FOR SLOPES GREATER THAN 4:1, PROVIDE FIBER ROLLS AND EITHER A BONDED FIBER MATRIX PRODUCT APPLIED TO A RATE OF 3500 LB/ACRE OR A STABILIZED FIBER MATRIX PRODUCT APPLIED TO A RATE OF 10 GAL/ACRE. THE COUNTY PUBLIC WORKS DEPARTMENT MAY APPROVE DIFFERENT APPLICATION RATES FOR SLOPES LESS THAN 4:1.
 - b. SEDIMENT CONTROLS. SEDIMENT CONTROLS SHALL INCLUDE, BUT ARE NOT LIMITED TO: DESILTING BASINS, GRADED BERMS, FIBER ROLLS, SILT FENCES, GRAVEL BAG CHEVRONS (FILLED WITH MINIMUM 3A" GRAVEL), CHECK DAMS, DRAINAGE INLET PROTECTION, ETC. FIBER ROLLS SHALL BE INSTALLED IN 15-FOOT INCREMENTS MEASURED ALONG THE FACE OF THE SLOPE. SILT FENCE SHALL BE INSTALLED ALONG INTERIOR STREETS AND COMBINED WITH GRAVEL-BAG OR SILT FENCE CHEVRONS INSIDE THE SIDEWALK RIGHT-OF-WAY OR BACK OF CURBS.
4. STATE CONSTRUCTION GENERAL PERMIT. IF THE PROJECT DISTURBS, EXPOSES OR STOCKPILES ONE ACRE OR MORE OF SOIL, THE SITE MUST BE COVERED UNDER THE STATE CONSTRUCTION GENERAL PERMIT. A WASTE DISCHARGE IDENTIFICATION (WDID) NUMBER, A RISK LEVEL DETERMINATION NUMBER AND THE QUALIFIED "STORM WATER POLLUTION PREVENTION PLAN" (SWPPP) DEVELOPER (QSD) SHALL BE PROVIDED TO THE COUNTY PRIOR TO ISSUANCE OF A GRADING PERMIT.
5. PERIMETER PROTECTION. PERIMETER PROTECTION MUST BE INSTALLED PRIOR TO ANY CLEARING ACTIVITIES. CLEARING SHALL BE LIMITED TO AREAS THAT WILL BE IMMEDIATELY GRADED OR DISTURBED. A COMBINATION OF ESC MEASURES SHALL BE IMPLEMENTED IN AREAS THAT HAVE BEEN CLEARED. ALL DISTURBED AREAS OF AN INACTIVE SITE SHALL ALSO BE PROTECTED.
6. CONSTRUCTION ACCESS POINTS. CONSTRUCTION ACCESS POINTS SHALL BE STABILIZED WITH A COMBINATION OF ROCK AND SHAKER PLATES TO PREVENT TRACK-OUT. INTERIOR ACCESS POINTS (ALL PROPOSED DRIVEWAYS, MATERIAL STORAGE AND STAGING AREA ENTRANCES/EXITS, ETC.) SHALL ALSO BE PROTECTED WITH ROCK TO PREVENT TRACK-OUT ONTO INTERIOR STREETS. ROUTINE STREET SWEEPING SHALL BE PERFORMED ON ALL PAVED STREETS WHERE TRACKING IS OBSERVED. VACUUM SWEEPERS SHALL BE USED WHEN STREET SWEEPING BECOMES INEFFECTIVE. CONTROLLED STREET WASHING SHALL ONLY BE ALLOWED PRIOR TO THE APPLICATION OF ASPHALT SEAL COATS, AND ONLY WHEN ALL PERTINENT DRAINAGE INLETS ARE PROTECTED.
7. MATERIAL STORAGE. MATERIAL STORAGE AND STAGING AREAS SHALL BE ESTABLISHED. FUEL TANKS, PORTABLE TOILETS, LIQUIDS, GELS, POWDERS, LANDSCAPE MATERIALS AND STOCKPILES OF SOIL SHALL BE STORED AWAY FROM ALL PRIVATE/PUBLIC STORM WATER CONVEYANCE SYSTEMS, SIDEWALKS, RIGHT-OF-WAYS AND FLOW-LINES AND SHALL HAVE SECONDARY CONTAINMENT. INACTIVE STOCKPILES OF SOIL SHALL BE COVERED AT ALL TIMES. ACTIVE STOCKPILES SHALL BE COVERED PRIOR TO A FORECAST RAIN.
8. CONSTRUCTION WASTE. CONSTRUCTION WASTE AND MISCELLANEOUS DEBRIS SHALL BE PLACED IN WATER-TIGHT BINS. WIRE MESH RECEPTACLES SHALL NOT BE ALLOWED. WASH-OUT STATIONS SHALL BE PROVIDED FOR CONCRETE, PAINTS, STUCCO AND OTHER LIQUID WASTE, AND SHALL BE LINED WITH PLASTIC AND LOCATED AWAY FROM PUBLIC RIGHT-OF-WAYS, FLOW LINES, ETC. PRIOR TO ANY FORECAST RAIN, BINS AND WASH-OUTS SHALL BE COVERED WITH LIDS OR PLASTIC TARPS.
9. MAINTENANCE. ALL ONSITE AND OFFSITE FLOW LINES (I.E., V- AND BROW-DITCHES, TERRACE DRAINS, RIBBON GUTTERS, CURB GUTTERS, ETC.), STORM WATER CONVEYANCE SYSTEMS, CHECK DAMS, CHEVRONS, SILT FENCES AND DESILTING BASINS SHALL BE FREE OF SEDIMENT, CONSTRUCTION MATERIALS, WASTE, MISCELLANEOUS DEBRIS AND DETERIORATED ESC MEASURES YEAR-ROUND.
10. OBSTRUCTIONS. NO OBSTRUCTIONS, OTHER THAN BMP'S, SHALL BE ALLOWED WITHIN ANY STORM WATER CONVEYANCE SYSTEM, UNLESS ALTERNATIVE DRAINAGE FACILITIES HAVE BEEN APPROVED BY THE COUNTY PUBLIC WORKS DEPARTMENT.



INSTALL 370' ± TYPE 1 TURBIDITY CURTAIN BARRIER. DEPTH VARIES

SCALE:
11"x17" Sheet 1" = 50'
24"x36" Sheet 1" = 25'

REVISION	DATE	COMMENTS

PREPARED UNDER THE DIRECT SUPERVISION OF:

CARLOS BELTRAN, P.E.
No. 69121
EXP. 6-30-26

DATE: 4/26/2024
REG. EXP. 06/30/26

69121
R.C.E. No.

Dynamic CONSULTING ENGINEERS

CIVIL ENGINEERING - LAND SURVEYING - CONSTRUCTION MANAGEMENT
2415 IMPERIAL BUSINESS PARK DRIVE, SUITE B.,
IMPERIAL, CA. 92251
TEL. (760) 545-0162 FAX (760) 545-0163

PUBLIC WORKS DEPARTMENT
COUNTY OF IMPERIAL

APPROVED BY THE COUNTY OF IMPERIAL:

JOHN GAY, P.E.
No. 62028
EXP. 9-30-25

DATE: 12/11/24

62028
R.C.E. No.

DATE	4/26/2024
DRAWN	DB
SCALE	AS SHOWN
CHECKED	CB

COMMUNITY AND ECONOMIC DEVELOPMENT

IMPROVEMENTS FOR THE WEST LAKE BOAT LAUNCHING FACILITY PROJECT

EROSION AND SEDIMENT CONTROL PLAN

SHEET 27 OF 27