



DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, JACKSONVILLE DISTRICT
4400 PGA BOULEVARD, SUITE 500
PALM BEACH GARDENS, FLORIDA 33410

June 8, 2023

Regulatory Division
South Branch
Palm Beach Gardens Permits Section

PUBLIC NOTICE

Permit Application No. SAJ-2022-03311(SP-JLM)

TO WHOM IT MAY CONCERN: The Jacksonville District of the U.S. Army Corps of Engineers (Corps) has received an application for a Department of the Army permit pursuant to Section 404 of the Clean Water Act (33 U.S.C. §1344) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. §403) as described below:

APPLICANT: City of Delray Beach
Attention: Missie Barletto
434 S. Swinton Avenue
Delray Beach, Florida 33444

WATERWAY AND LOCATION: The project would affect waters of the United States associated with Intracoastal Waterway. The project site is located at the City of Delray Beach Marina located on Marine Way, Section 16, Township 46 South, Range 43 East, Delray Beach, Palm Beach County, Florida.

Directions to the site are as follows: Take Interstate 95 to Exit 52 for FL 806/ Atlantic Avenue. Travel east on Atlantic Avenue for approximately 1 mile and turn right onto SW 1st Avenue. Then turn left onto SW 1st Street, and travel 0.6 miles and right onto Marine Way. Project will be on the right side.

APPROXIMATE CENTRAL COORDINATES: Latitude: 26.45991°
Longitude: -80.06452°

PROJECT PURPOSE:

Basic: Stormwater Management, water access, shoreline stabilization

Overall: The overall project purpose is to reduce stormwater flooding associated with king high flooding events adjacent to Marine Way, and to improve water access and stabilize the shoreline along Marine Way, Delray Beach, Palm Beach County, Florida.

EXISTING CONDITIONS: The proposed project is located along the Intracoastal Waterway within the 62.5-foot setback of the Federal Channel and within Real Estate-IWW- JaxToMiami Tracts 772 and 789. There is a 6,319 square foot mangrove fridge located within the project area, consisting of red (*Rhizophora mangle*) and black (*Avicennia germinans*), and white (*Laguncularia racemosa*) mangroves with seaside

Mahoe (*Talipariti tiliaceum*). The existing seawall has failed and is leaning diagonally or completely horizontal within the mangrove fringe. The failed seawall has allowed mangroves to grow landward of the previously existing seawall.

For at least two decades and currently, Marine Way experiences severe flooding during high tides and particularly during king tides. This problem has gotten progressively worse due to climate change and the ensuing sea level rise. The existing road has been continuously undermined with each tidal exchange and deteriorated due to the flooding events. The overall purpose of this project is to implement the City of Delray Beach's seawall height standard of 3.87 feet NAVD 88 to prevent the severe flooding of Marine Way. The two existing public access ramps at the Deck 84 Restaurant will no longer be structurally compatible with the new seawall elevation and must be reconstructed. Additionally, one new public ADA access ramp is to be constructed to provide acceptable ADA connection with the proposed new seawall elevation.

PROPOSED WORK: The applicant seeks authorization to improve the stormwater management, water access, and stabilize the existing shoreline within and adjacent to Marine Way and the Deck 84 Restaurant. Specifically, the proposed activities include:

1. Remove a 24 linear foot section of seawall associated with the proposed discharge bay associated with the upland pump station and partially remove an 36 linear seawall for the proposed utility bay.
2. Install 500 square feet of metal pedestrian grating over proposed utility bay; and install 382 square feet of metal pedestrian grating over proposed discharge bay.
3. Install three 14-inch concrete square pilings associated with the proposed discharge bay and utility bay.
4. Install three clusters of three 12-inch wooden pilings to be used as fenders at the proposed discharge and utility bays;
5. Install a 595 linear foot seawall with a 3.5 foot wide concrete cap with a 4.2 foot to 6 foot tall notch along the waterward face of the cap.
6. Install a 595 linear foot temporary sheet pile wall waterward of the proposed seawall cap. The temporary sheet pile wall will be removed after construction of the seawall cap and 4.2 foot to 6 foot tall notch until complete.
7. Remove three existing access walkways associated with the Deck 84 Restaurant Dock, total of 188 square feet
8. Construct two new 62 square foot public non-American Disabilities Act (ADA) Access walkways for an existing dock associated with the Deck 84 Restaurant and impacting 5.52 square feet of mangroves wetlands. The southern access walkway measures 15.5 feet long by 4 feet wide and the second non-ADA access walkway (northern) measures 15.5 feet long by 4 feet wide.
9. Construct a new 222 square foot public ADA access ramp associated with Deck 84's Restaurant Dock, impacting 191.05 square feet of mangroves.
10. Installation of a 4-inch HDPE drainage pipe under the Atlantic Avenue Bridge and reconstruction of one existing 4-inch HDPE drainage pipe under the Atlantic Avenue Bridge.

AVOIDANCE AND MINIMIZATION INFORMATION – The applicant has provided the following information in support of efforts to avoid and/or minimize impacts to the aquatic environment:

- All proposed pumpstation discharge pipes will be equipped with manatee grates (three 30-inch steel pipes and one 16-inch steel pipe which discharge stormwater). The two proposed 4-inch drain pipes under the Atlantic Avenue bridge will be equipped with Wa-Stop valves to prevent backflow. The existing 48-inch gravity discharge FDOT outfall pipe will be equipped with a Wa-Stop valve and a manatee grate.
- Comply with JAXBO PDC's for In-Water Activities, including the use of turbidity barriers.
- Comply with the Standard Manatee Conditions for In-Water Work – 2011
- Use of clean fill/ associated with the proposed shoreline stabilization
- Comply with the Eastern Indigo Snake Standard Protection Measures during construction.
- The proposed seawall along Marine Way is to be constructed at the existing eastern edge-of-pavement of Marine Way where there is existing asphalt, and to the west of any mangroves to avoid mangrove wetland impacts. There are many areas within the existing mangrove fringe that consist of localized monocultures of seaside mahoe. The new seawall has been designed in such a way as to place impacts within these areas, thereby eliminating mangrove impacts associated with the installation of the new seawall.
- The proposed eastern edge-of-pavement of Marine Way will be shifted a maximum of 6.7 feet and a minimum of 3.5 feet landward (west) from the existing eastern edge-of-pavement in order to accommodate space for the new seawall and all required improvements.
- The reconstruction of the two existing public access ramps was designed to meet minimum construction and safety standards while also minimizing the footprint of mangrove impacts as much as possible.
- The construction of the ADA ramp was designed to reduce mangrove impacts by placing the termination of the proposed ADA ramp in alignment with the existing access ramp termination.

COMPENSATORY MITIGATION – The applicant has provided the following explanation why compensatory mitigation should not be required:

“No compensatory mitigation for unavoidable impacts is proposed. The applicant feels that given the public interest associated with the project and the fact that it will result in de minimis impacts to waters and wetlands (0.01 acres overall; 196.57 square feet of mangrove wetland impact and 158.85 square feet of impacts to surface waters), compensatory mitigation is not warranted.”

CULTURAL RESOURCES: The Corps is aware of recorded historic resources within or adjacent to the permit area and is evaluating the undertaking for effects to historic properties as required under Section 106 of the National Historic Preservation Act. This public notice serves to inform the public of the proposed undertaking and invites

comments including those from local, State, and Federal government Agencies with respect to historic resources. Our final determination relative to historic resource impacts may be subject to additional coordination with the State Historic Preservation Officer, those federally recognized tribes with concerns in Florida and the Permit Area, and other interested parties.

ENDANGERED SPECIES: The Corps has determined the proposed project may affect, but is not likely to adversely affect the West Indian manatee (*Trichechus manatus*); swimming sea turtles: (green sea turtle (*Chelonia mydas*), Kemp's Ridley sea turtle (*Lepidochelys kempii*), Loggerhead sea turtle (*Caretta caretta*)); smalltooth sawfish (*Pristis pectinata*); Giant Manta Ray (*Mobula birostris*); Eastern indigo snake (*Drymarchon couperi*); and wood stork (*Mycteria americana*). The Corps will request U.S. Fish and Wildlife/National Marine Fisheries Service concurrence with this determination pursuant to Section 7 of the Endangered Species Act.

The Corps has determined the proposal would have no effect on any other listed threatened or endangered species or designated critical habitat.

ESSENTIAL FISH HABITAT (EFH): This notice initiates consultation with the National Marine Fisheries Service on EFH as required by the Magnuson-Stevens Fishery Conservation and Management Act 1996. The applicant states that the proposal would impact 196.57 square feet of tidal red, black, and white mangroves. However, the Corps anticipates that the project will also likely impact mangroves for the installation of the new 595 linear foot seawall and temporary sheet pile wall, up to an additional 1000 square feet of mangrove impacts. Tidal mangrove wetlands are utilized by various life stages of penaeid shrimp complex, reef fish, stone crab, spiny lobster, migratory/pelagic fish, and snapper/grouper complex. Our initial determination is that the proposed action would have an adverse impact on EFH or Federally managed fisheries in the South Atlantic Region. Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the National Marine Fisheries Service.

NAVIGATION: Based on the Florida State Plane coordinates provided by the applicant, the waterward edge of the proposed structure is located within the 62.5-foot setback of the near bottom edge of the Intracoastal Waterway federal channel. The project will be coordinated with the Corps Navigation Section and Real Estate Division for comments.

SECTION 408: The applicant will require permission under Section 14 of the Rivers and Harbors Act (33 USC 408) because the activity, in whole or in part, would alter, occupy, or use a Corps Civil Works project.

NOTE: This public notice is being issued based on information furnished by the applicant. This information has not been verified or evaluated to ensure compliance with laws and regulation governing the regulatory program. The jurisdictional line has not been verified by Corps personnel.

COMMENTS regarding the potential authorization of the work proposed should be submitted in writing to the attention of the District Engineer through the Palm Beach Gardens Permits Section, 4400 PGA Boulevard, Suite 500, Palm Beach Gardens, Florida 33410 within 30 days from the date of this notice.

The decision whether to issue or deny this permit application will be based on the information received from this public notice and the evaluation of the probable impact to the associated wetlands. This is based on an analysis of the applicant's avoidance and minimization efforts for the project, as well as the compensatory mitigation proposed.

QUESTIONS concerning this application should be directed to the project manager, Jeffrey Meyer, in writing at the Palm Beach Gardens Permits Section, 4400 PGA Boulevard, Suite 500, Palm Beach Gardens, Florida 33410; by electronic mail at Jeffrey.L.Meyer@usace.army.mil; or, by telephone at (561) 871-0387.

IMPACT ON NATURAL RESOURCES: Coordination with U.S. Fish and Wildlife Service, Environmental Protection Agency (EPA), the National Marine Fisheries Services, and other Federal, State, and local agencies, environmental groups, and concerned citizens generally yields pertinent environmental information that is instrumental in determining the impact the proposed action will have on the natural resources of the area.

EVALUATION: The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including cumulative impacts thereof; among these are conservation, economics, esthetics, general environmental concerns, wetlands, historical properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food, and fiber production, mineral needs, considerations of property ownership, and in general, the needs and welfare of the people.

The US Army Corps of Engineers (Corps) is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other Interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps to determine whether to issue, modify, condition, or deny a permit for this proposal. To make this determination, comments are used to assess impacts to endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

WATER QUALITY CERTIFICATION: Water Quality Certification is required from the South Florida Water Management District (SFWMD) and has been issued under individual environmental resource permit no.: 50-107902-P dated March 14, 2023.

COASTAL ZONE MANAGEMENT CONSISTENCY: In Florida, the State approval constitutes compliance with the approved Coastal Zone Management Plan. In Puerto Rico, a Coastal Zone Management Consistency Concurrence is required from the Puerto Rico Planning Board. In the Virgin Islands, the Department of Planning and Natural Resources permit constitutes compliance with the Coastal Zone Management Plan.

REQUEST FOR PUBLIC HEARING: Any person may request a public hearing. The request must be submitted in writing to the District Engineer within the designated comment period of the notice and must state the specific reasons for requesting the public hearing.

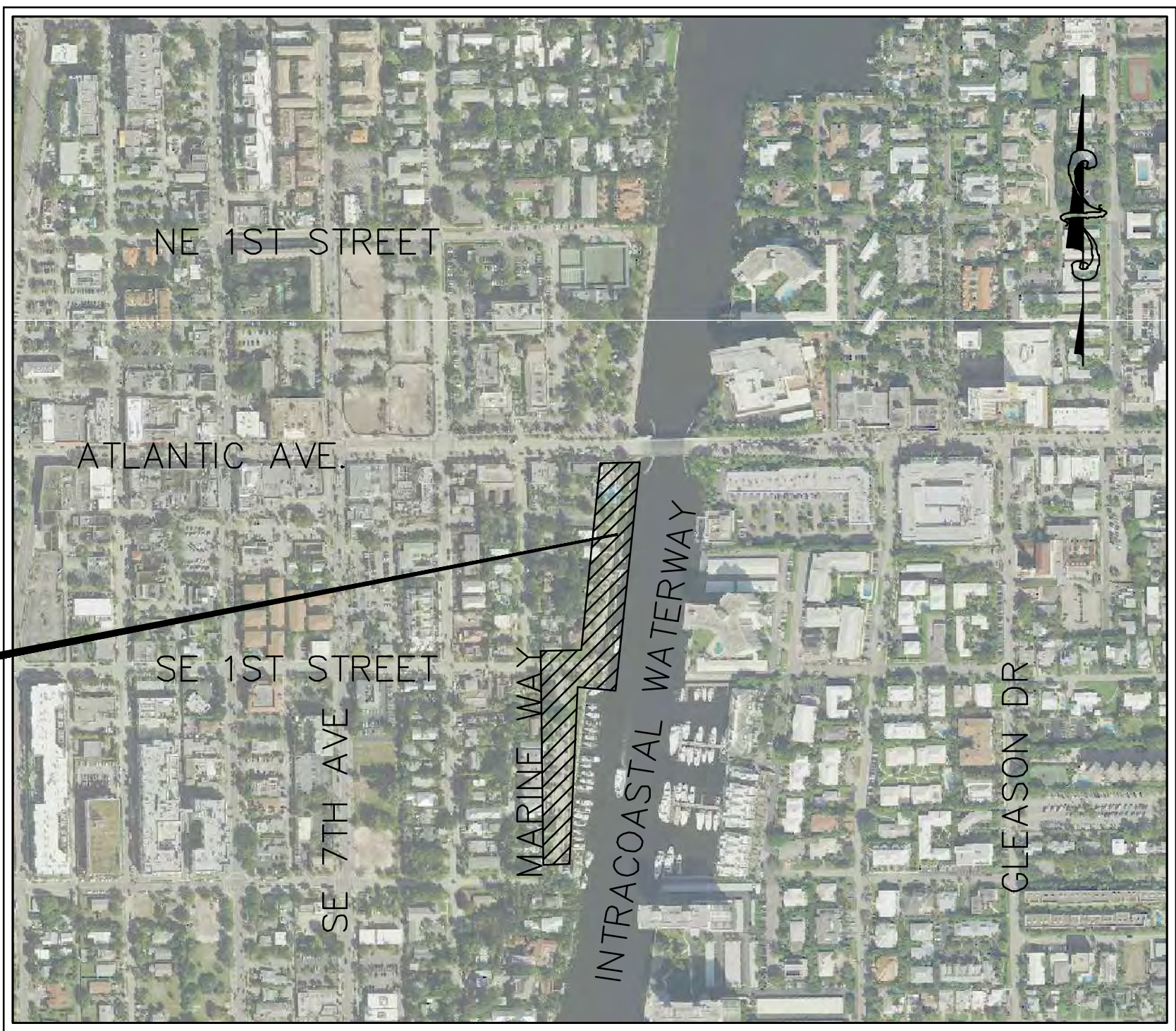
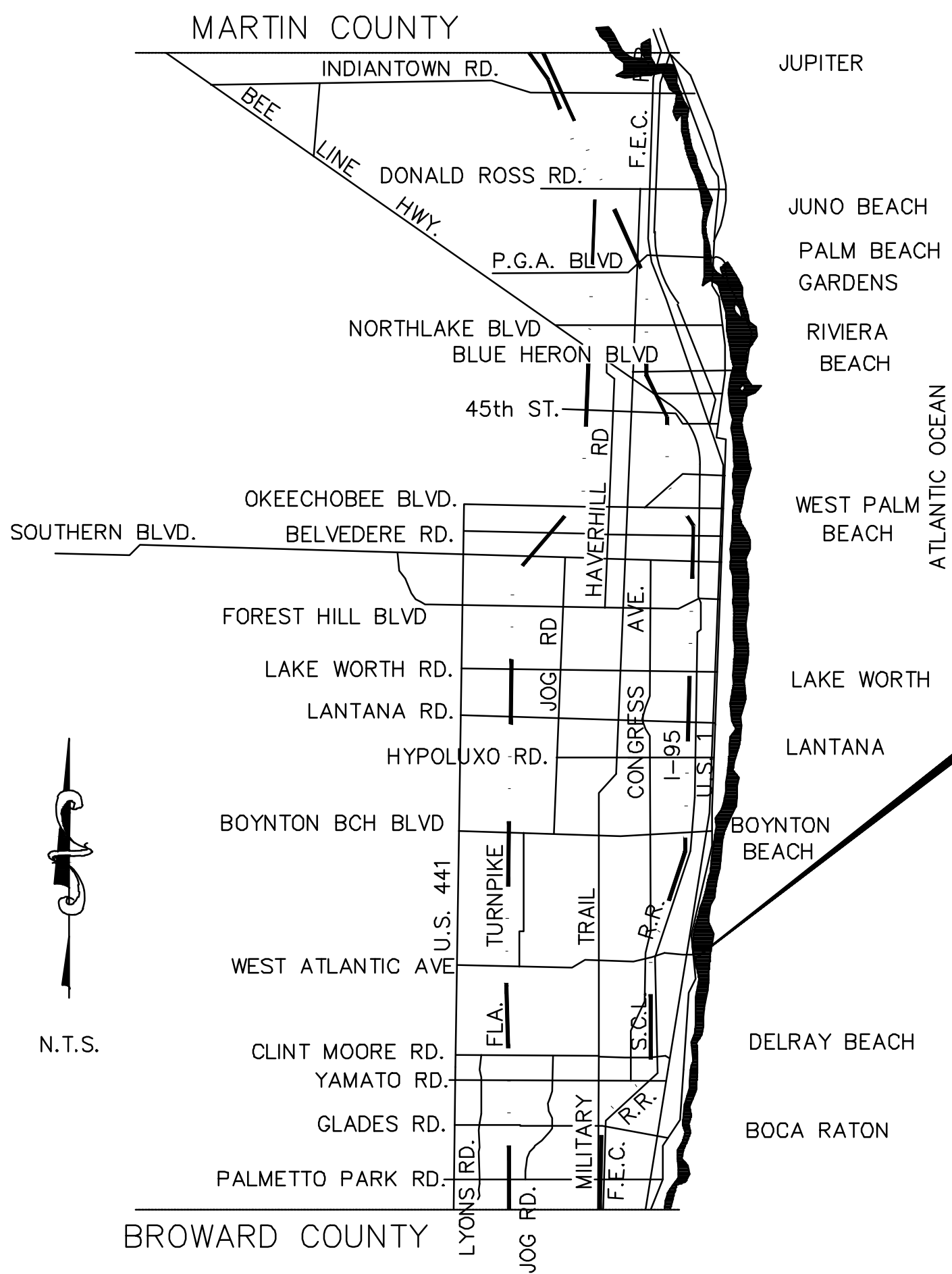
THE CITY OF DELRAY BEACH

HISTORIC MARINE WAY SEAWALL, ROADWAY, AND DRAINAGE IMPROVEMENT

CITY PROJECT NO. 17-047

CITY OFFICIALS

| | |
|-------------------|-----------------|
| MAYOR | SHELLY PETROLIA |
| VICE MAYOR | ADAM FRANKEL |
| DEPUTY VICE MAYOR | JULI CASALE |
| COMMISSIONER | SHIRLEY JOHNSON |
| COMMISSIONER | RYAN BOYLSTON |
| CITY MANAGER | TERRENCE MOORE |



LOCATION MAP

NO SCALE

PROJECT LOCATED IN SECTION 16,
TOWNSHIP 46 SOUTH, RANGE 43 EAST

PROJECT

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VERTICAL DATUM: NORTH AMERICAN
VERTICAL DATUM OF 1988 (NAVD88)

HORIZONTAL DATUM: NORTH AMERICAN
DATUM OF 1983, FLORIDA STATE
PLANES, EAST ZONE, U.S. FEET (NAD83)

PREPARED BY:



2035 Vista Parkway
West Palm Beach, FL 33411
Phone No. 561.687.2220
Fax No. 561.687.1110
Cert No. 6091 - LB No. 7055

HISTORIC MARINE WAY SEAWALL,
ROADWAY, AND DRAINAGE
IMPROVEMENT
WGI NO.: 2898.01
MARINE WAY - SITE IMPROVEMENTS

ENGINEER OF RECORD
STEPHEN CHERRY, PE
PE# 83268

PREPARED FOR:

CITY OF DELRAY BEACH
434 S. SWINTON AVE
DELRAY BEACH, FL 33444
561.243.7000



- DEFINITIONS
1. CITY – THE CITY OF DELRAY BEACH

2. CONTRACTOR – CONTRACTOR AND ALL UTILITY SUBCONTRACTORS

3. ENGINEER – ENGINEER RESPONSIBLE FOR INSPECTION AND CERTIFICATION

PROCEDURE

1. A PRE-CONSTRUCTION MEETING IS TO BE HELD PRIOR TO DELIVERY OF MATERIALS AND INITIATION OF ANY CONSTRUCTION. THE MEETING SHALL BE ATTENDED BY THE CITY, CONTRACTOR, SUBCONTRACTORS, ENGINEER AND OTHER INTERESTED PARTIES.
2. ANY REVISIONS TO THE APPROVED PLANS MUST BE APPROVED BY THE CITY PRIOR TO THE PRE-CONSTRUCTION MEETING.
3. A MINIMUM OF THREE (3) COPIES OF THE CURRENT APPROVED PRODUCT LIST AND ALL NECESSARY SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO SCHEDULING THE PRE-CONSTRUCTION MEETING. ALL PIPE MANUFACTURERS SHALL SUBMIT THREE (3) COPIES OF AN AFFIDAVIT THAT THE PIPE AND COATINGS WERE MANUFACTURED IN ACCORDANCE WITH AWWA C151/A21.51-91 AND C900-89.
4. ALL APPLICABLE PERMITS MUST BE OBTAINED WITH COPIES PROVIDED TO THE CITY PRIOR TO COMMENCEMENT OF CONSTRUCTION.
5. THE CONTRACTOR SHALL MAINTAIN A CURRENT APPROVED SET OF CONSTRUCTION DOCUMENTS ON SITE AT ALL TIMES.
6. ALL MATERIALS SUPPLIED SHALL CONFORM TO PRODUCT LIST AND SHOP DRAWINGS AS APPROVED BY THE CITY PRIOR TO CONSTRUCTION. ALL REQUESTS FOR MATERIAL SUBSTITUTION SHALL BE APPROVED BY THE CITY PRIOR TO DELIVERY OF THESE MATERIALS TO THE JOB SITE.
7. THE LOCATION OF THE EXISTING UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY IF OTHER UTILITIES (NOT SHOWN ON THE PLAN) EXIST WITHIN THE AREA OF CONSTRUCTION. SHOULD THERE BE UTILITY CONFLICTS, THE CONTRACTOR SHALL INFORM THE CITY AND NOTIFY THE RESPECTIVE UTILITY OWNER TO RESOLVE THE UTILITY CONFLICTS AND PERFORM THE UTILITY ADJUSTMENTS AS REQUIRED.
8. PRIOR TO ANY SANITARY PIPE OR WATER MAIN TESTING, UNDER EXISTING OR FUTURE PAVEMENT, THE ROCK BASE SHALL BE FINISHED AND PRIMED OR FIRST LIFT OF PAVEMENT PLACED.
9. THE CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES THROUGHOUT THE DURATION OF CONSTRUCTION FOR THE PROTECTION OF EXISTING AND NEWLY INSTALLED UTILITIES FROM DAMAGE OR DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING SUCH MEASURES AS NECESSARY TO PROTECT THE HEALTH, SAFETY, AND WELFARE OF THOSE PERSONS HAVING ACCESS TO THE WORK SITE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING LOCATIONS OF ALL OTHER UTILITY FACILITIES.
11. THE CONTRACTOR SHALL SCHEDULE INSPECTIONS AND TESTS WITH THE CITY A MINIMUM OF 48 HOURS IN ADVANCE.
12. CONTRACTOR SHALL NOT DISTURB EXISTING CITY MAINS OR STRUCTURES WITHOUT THE PRESENCE OF A CITY INSPECTOR. CITY UTILITY SYSTEM VALVES AND APPURTENANCES MAY ONLY BE OPERATED BY CITY PERSONNEL.
13. FACILITIES PROPOSED HEREIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS. DEVIATIONS FROM THE APPROVED PLANS MUST BE APPROVED IN ADVANCE BY THE CITY.
14. UPON COMPLETION OF CONSTRUCTION AND PRIOR TO FINAL ACCEPTANCE OF THE WORK, A FINAL INSPECTION SHALL VERIFY PROPER ADHERENCE TO ALL FACETS OF THE PLANS AND SPECIFICATIONS.
15. PAVING, DRAINAGE AND TRAFFIC CONTROL SHALL CONFORM TO FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND DESIGN STANDARDS, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND PALM BEACH COUNTY TYPICAL T-3-89-004-PS (LATEST REVISION) UNLESS SHOWN OTHERWISE.
16. AS-BUILT DRAWINGS SHALL BE PREPARED BY A REGISTERED LAND SURVEYOR, REGISTERED IN THE STATE OF FLORIDA, AND SUBMITTED BY THE CONTRACTOR TO THE CITY AND APPROVED BY THE CEI PRIOR TO SUBMITTING FINAL PAYMENT. AS THE WORK PROGRESSES, THE ENGINEER OF RECORD (OR THEIR REPRESENTATIVE) SHALL RECORD ON ONE SET OF DRAWINGS THE LOCATION INCLUDING STATION AND OFFSET WITH SUFFICIENT DIMENSIONS AND DISTANCES TO ADEQUATELY DESCRIBE THE LOCATION OF THE IMPROVEMENT FROM THE BASELINE. ELEVATIONS ARE TO BE PROVIDED AT THE TOP OF PIPE AT INCREMENTS OF EVERY 100 FEET ON ALL WATER AND FORCE MAINS. STATIONING IS REQUIRED ON ALL VALVES, FITTINGS, WATER AND SEWER SERVICES AND FIRE HYDRANTS. THE LENGTHS OF ALL WATER SERVICE LINES AND SEWER LATERALS MUST BE NOTED. ON GRAVITY SEWER LINES, ELEVATIONS AND STATIONING ARE TO BE INDICATED ON ALL MANHOLE RIMS AND INVERTS. THE DISTANCE BETWEEN MANHOLES IS TO BE SHOWN ON BOTH THE PLAN AND PROFILE SHEETS UNLESS PLAN VIEW AND PROFILE VIEW ARE ON THE SAME SHEET. THE ENGINEER OF RECORD IS TO SUBMIT TWO SETS OF BLUE PRINT RECORD OR AS-BUILT DRAWINGS AND ONE MYLAR TO THE ENGINEERING DEPARTMENT ALONG WITH THE HEALTH DEPARTMENT APPLICATION FOR RELEASE OF THE SYSTEM. ALL "AS-BUILT DRAWINGS" SHALL BE SIGNED, SEALED AND DATED BY THE SURVEYOR. CERTIFICATE OF OCCUPANCY WILL BE HELD UNTIL ACCEPTANCE BY CEI AND THE CITY. PAVING AND DRAINAGE AS-BUILT DRAWINGS SHALL INCLUDE RIM ELEVATIONS, INVERT ELEVATIONS, PIPE SIZES, CONTROL STRUCTURE DIMENSIONS, AS WELL AS, AS-BUILT ELEVATIONS AT EVERY LOCATION. A PROPOSED ELEVATION IS INDICATED ON THE CONSTRUCTION PLAN. ADEQUATE AS-BUILT ELEVATIONS SHALL BE PROVIDED ON EMBANKMENTS TO DETERMINE COMPLIANCE WITH MAXIMUM SLOPE REQUIREMENTS.
17. PRIOR TO COMMENCEMENT OF ANY EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH FLORIDA STATUTE 553-851 FOR PROTECTION OF UNDERGROUND GAS PIPE LINES.
18. CONTRACTOR SHALL NOTIFY SUNSHINE STATE ONE CALL OF FLORIDA OR SUNSHINE 811 (1-800-432-4770) 48 HOURS IN ADVANCE OF CONSTRUCTION.
19. GRADES SHOWN ON PLANS ARE FINISHED GRADES. THE CONTRACTOR SHALL BE REQUIRED TO ADJUST EXISTING MANHOLE TOPS AND VALVE BOX COVERS TO FINISHED GRADE.

- ... PROCEDURE CONTINUED
20. CONTRACTOR SHALL MAINTAIN LOCAL TRAFFIC AT ALL TIMES DURING CONSTRUCTION AND SHALL BE REQUIRED TO PROVIDE ALL BARRICADES, LIGHTING, SIGNAGE AND FLAGMEN AS NECESSARY TO PROVIDE FOR THE SAFETY OF THE PUBLIC IN THE WORK AREA. THE CONTRACTOR SHALL SUBMIT A DETAILED TRAFFIC MAINTENANCE PLAN PRIOR TO CONSTRUCTION.
21. EXISTING BASE MATERIAL THAT IS REMOVED DURING CONSTRUCTION SHALL NOT BE USED IN THE CONSTRUCTION OF NEW BASE.
22. ALL VEGETATION, DEBRIS, CONCRETE OR OTHER UNSUITABLE MATERIAL SHALL BE LEGALLY DISPOSED OF OFF-SITE IN AN AREA AT THE CONTRACTOR'S EXPENSE.
23. CONTRACTOR SHALL USE CONSTRUCTION METHODS AND DEVICES, SUCH AS TURBIDITY SCREENS, CURTAINS AND FLOATING SILT BARRIERS WHERE NECESSARY IN ORDER TO COMPLY WITH ALL STATE AND LOCAL WATER QUALITY STANDARDS.
24. CONTRACTOR SHALL SUBMIT A STORM WATER POLLUTION PREVENTION PLAN, PRIOR TO AND DURING CONSTRUCTION OF ALL SITES, THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES INCLUDED IN A POLLUTION PREVENTION PLAN PROVIDED TO THE CITY OF DELRAY BEACH'S CHIEF BUILDING OFFICIAL.
25. ALL REINFORCED CONCRETE STORM SEWER PIPE SHALL BE CLASS III, UNLESS OTHERWISE NOTED.
26. ALL PAVED SURFACES SHALL BE PROPERLY MARKED PRIOR TO HOURS OF DARKNESS. PERMANENT PAVEMENT PARKING STALLS SHALL BE LAID OUT USING MARKING CHALK. LAYOUT TO BE REVIEWED BY THE CITY PRIOR TO PLACEMENT OF FINAL MARKING.
27. EMBANKMENT (FILL) AND EXCESS MATERIAL REQUIRED FOR ROADWAY RECONSTRUCTION AND UTILITY INSTALLATIONS SHALL BE SUPPLIED AND/OR DISPOSED OF BY THE CONTRACTOR. ALL COSTS ASSOCIATED WITH EARTHWORK REQUIREMENTS TO COMPLETE THE ROADWAY RECONSTRUCTION AND UTILITY IMPROVEMENTS SHALL BE INCLUDED IN THE COSTS OF OTHER APPROPRIATE PAY ITEMS.
28. CONTINUITY OF WATER AND SEWER SERVICE TO CITY UTILITY CUSTOMERS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THIS PROJECT. IF A BREAK IN SERVICE IS UNAVOIDABLE TO ACCOMMODATE CONNECTION OF NEW FACILITIES, IT SHALL BE SCHEDULED FOR OFF PEAK HOURS WITH THE CITY. DETERMINATION OF SERVICE DISRUPTION REQUIREMENT WILL BE MADE BY THE CITY.
29. SITE INFORMATION IS BASED ON A SURVEY PREPARED BY: WGI.
30. PRIOR TO FINAL PAY REQUEST, CONTRACTOR SHALL CLEAN AND TELEWISE ALL STORM DRAINAGE SYSTEM IN PROJECT AREA.
31. CONTRACTOR SHALL SUBMIT A HEALTH & SAFETY PLAN & EMERGENCY HURRICANE PLAN FOR APPROVAL BY CITY & CEI.
32. CONTRACTOR SHALL ESTABLISH A PUBLIC OUTREACH WEBSITE AND OFFICER TO UPDATE DATABASE WEEKLY.
33. ALL LUMBER SHALL BE ACQ TREATED TO .60%.
34. ALL HARDWARE AND FASTENERS SHALL BE 316 STAINLESS STEEL.
35. ALL CONSTRUCTION SHALL BE IN ACCORDANCE ADA CODES & REGULATIONS.
36. CONTRACTOR SHALL SUBMIT A WASTEWATER BY-PASS PIPE DESIGN FOR REVIEW. THIS SHALL INCLUDE TYPE OF PUMP, SIZE OF PIPE, DURATION AND TIMES FOR PUMPING, EMERGENCY ALARM AND CONTACT WITH SOMEONE ON CALL TO RESPOND IN THE EVENT OF THE ALARM GOING OFF.
37. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL SUBMIT AND OBTAIN ALL REQUIRED DEWATERING PERMITS FOR THE PROJECT.

GENERAL NOTES, CITY CODES, REGULATIONS, AND STANDARDS

1. REGULATIONS – ALL CONSTRUCTION SHALL BE DONE IN A WORKMAN LIKE MANNER AND SHALL CONFORM TO ALL CITY, COUNTY, STATE AND FEDERAL REGULATIONS AND OR CODES INCLUDING BUT NOT LIMITED TO THE CURRENT PALM BEACH COUNTY AND FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) LATEST REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND LICENSES TO BEGIN WORK AND PAY ALL REQUIRED FEES ASSOCIATED WITH SAME.
2. VERTICAL DATUM – ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, AS ESTABLISHED BY NGS BENCHMARK 14.33 WITH A PUBLISHED ELEVATION OF 12.78' (NAVD 88). NAVD'88 = NGVD'29-1.48.
3. HORIZONTAL DATUM – FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983, (2011 ADJUSTMENT)
4. GUARANTEE – THE CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIAL FOR A PERIOD OF ONE YEAR FROM THE DATE OF PROJECT ACCEPTANCE, UNLESS SPECIFIED LONGER BY MANUFACTURER, DURING WHICH ALL FAULTY CONSTRUCTION AND/OR MATERIAL SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
5. RESTORATION – THE CONTRACTOR SHALL IMMEDIATELY REPAIR AND RESTORE EXISTING SITE FEATURES INCLUDING PAVEMENT, DRIVEWAYS, PIPES, FENCES, TRAFFIC CONTROL DEVICES, MAILBOXES AND PROPERTY CORNERS DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES. THE REPAIR AND RESTORATION SHALL CONFORM TO APPLICABLE STANDARDS AS GOVERNED.
6. ALL FDOT STANDARDS AND SPECIFICATIONS SHALL BE LATEST EDITION FOR INSTALLATION AND MATERIALS AT BID SUBMITTAL.
7. ALL STRIPING AND DELINEATION TO CONFORM TO THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (MUTCD) LATEST EDITION.
8. ALL CROSSWALK SIGNS AND ADVANCED PAVEMENT MESSAGES TO BE DESIGNED AND INSTALLED PER FDOT STANDARD (INDEX NO. 17346).
9. REFERENCE THE FDOT 600 SERIES FOR ALL REQUIRED AND APPLICABLE MOT PLANS.
10. ALL WORK MUST BE PERFORMED WITHIN THE PROJECT LIMITS, UNLESS GIVEN PRIOR WRITTEN AUTHORIZATION FROM THE PROPERTY OWNER.
11. IF THE CONTRACTOR ENCOUNTERS AN EXISTING VALVE BOX THAT IS OUT OF PLUMB, THE CONTRACTOR SHALL COORDINATE WITH THE CITY TO ADJUST THE VALVE BOX.
12. CONTRACTOR SHALL PROVIDE PHOTO AND VIDEO DOCUMENTATION OF ALL ADJACENT PROPERTY CONDITIONS PRIOR TO CONSTRUCTION.
13. PIPE SEPARATION DIMENSIONS ARE OUTSIDE WALL-TO-WALL.
14. CONTRACTOR SHALL PAY FOR AND COORDINATE ANY AND ALL TESTING LABORATORY (WATER, CONCRETE, DENSITY, PROCTORS, ETC.) REQUIREMENTS. CITY WILL APPROVE TESTING LABORATORY CONSULTANT ONLY.
15. ALL DOCKS SHALL HAVE USAGE, FDEP, AND ANY OTHER PERMITS NECESSARY TO BE IN COMPLIANCE WITH REQUIREMENTS FOR DOCKS WITHIN INTRACOASTAL WATERWAY.
16. CONTRACTOR SHALL COORDINATE SELECTION AND REVIEW OF ANY PROPOSED STAGING AREAS ASSOCIATED WITH THIS PROJECT WITH THE CITY OF DELRAY. CONTACT CEI AT (561)243-7341.

FLOOD RESISTANCE

THE FLOOD INSURANCE RATE MAPS (FIRMS) PREPARED BY FEMA HAVE BEEN ADOPTED BY THE CITY AS THE GOVERNING FLOOD HAZARD MAP FOR THE PROJECT LOCATION. BASED ON THE FIRMS, THE PROJECT IS LOCATED IN ZONE AE WITH A BASE FLOOD ELEVATION (BFE) OF 6.0' NAVD. BASED ON THE AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE), FLOOD RESISTANT DESIGN AND CONSTRUCTION, ASCE 24-14, TABLE 1-1, THE PROJECT'S FLOOD DESIGN CLASS IS 3, RESULTING IN A MINIMUM ELEVATION OF LOWEST FLOOR AND UTILITIES AND EQUIPMENT BEING BFE+1 FT. OR 7.0' NAVD.

THE PROJECT EXCEEDS THE FBC REQUIREMENTS AND APPLICABLE FLOODPLAIN MANAGEMENT REGULATIONS IN THE FOLLOWING WAYS:

- ALL MATERIALS OF CONSTRUCTION HAVE BEEN SELECTED AND DESIGNED TO RESIST THE EFFECTS OF FLOOD HAZARD AND FLOOD LOADS.
- THE OUTFALL PORTION OF THE WETWELL STRUCTURE (INTO THE INTRACOASTAL WATERWAY) INCLUDES THE INSTALLATION OF ROCK RIP RAP PROTECTING THE INTEGRITY OF THE PIPES FROM EROSION AND SCOURING THAT MIGHT AFFECT THEM DUE TO THE LOSS OF SUPPORTING SOILS.
- AN ABOVE GROUND FUEL TANK WILL BE CONSTRUCTED ON-GRADE AND DESIGNED TO BE ANCHORED TO RESIST FLOOD LOADS. THE TOP OF THE TANK AND FUEL AND VENTING PIPING WILL BE LOCATED ABOVE THE BFE+1' REQUIREMENT.
- THE GENERATOR WILL BE HOUSED IN AN OUTDOOR ENCLOSURE WITH THE CONCRETE SLAB AT THE BFE GRADE. THE GENERATOR EQUIPMENT WILL BE LOCATED ABOVE THE BFE+1' REQUIREMENT.
- THE ELECTRICAL AND CONTROLS EQUIPMENT WILL ALL BE INSTALLED ADJACENT TO THE WETWELL STRUCTURE, MOUNTED TO A SITE WALL. ALL OF THE EQUIPMENT WILL BE INSTALLED SO THAT THE BOTTOM OF THE EQUIPMENT IS LOCATED ABOVE THE BFE+1' REQUIREMENT.

LEGEND

| | |
|-------------------------------|--|
| PROPOSED SIDEWALK | |
| MILL AND RESURFACE | |
| PAVEMENT RECONSTRUCTION | |
| PROPOSED ASPHALT PAVEMENT | |
| PROPOSED BRICK PAVER PAVEMENT | |
| PROPOSED DRAINAGE | |
| PROPOSED WATER | |
| PROPOSED WASTEWATER | |
| PROPOSED ELECTRIC | |
| EXISTING WATER | |
| EXISTING SANITARY SEWER | |
| EXISTING FORCE MAIN | |
| EXISTING DRAINAGE | |
| EXISTING OVERHEAD UTILITIES | |
| PROPOSED/EXISTING STREET SIGN | |
| WATER FITTINGS | |
| FIRE HYDRANT ASSEMBLY | |
| LINESTOP | |
| EXISTING DRAINAGE INLET | |
| BENCHMARK | |

ABBREVIATIONS

| | |
|-------|--------------------------------------|
| ARV | AIR RELEASE VALVE |
| ASPH | ASPHALT |
| CONC | CONCRETE |
| DIP | DUCTILE IRON PIPE |
| DRN | DRAINAGE |
| EL | ELEVATION |
| EOP | EDGE OF PAVEMENT |
| EX | EXISTING |
| FH | FIRE HYDRANT |
| FM | SANITARY FORCE MAIN |
| HDPE | HIGH-DENSITY POLYETHYLENE |
| INV | INVERT |
| LF | LINEAR FOOT |
| LS | LIFT STATION |
| MH | MANHOLE |
| OH | OVERHEAD ELECTRIC |
| OS | OFFSET |
| PHDPE | PERFORATED HIGH-DENSITY POLYETHYLENE |
| PRCP | PERFORATED REINFORCED CONCRETE PIPE |
| PVC | POLYVINYL CHLORIDE |
| PROP | PROPOSED |
| RCP | REINFORCED CONCRETE PIPE |
| RWM | RECLAIMED WATER MAIN |
| R/W | RIGHT-OF-WAY |
| SAN | SANITARY SEWER |
| STRM | STORMWATER |
| SP | SAMPLE POINT |
| STA | STATION |
| S/W | SIDEWALK |
| TYP | TYPICAL |
| WM | WATER MAIN |

UTILITY CONTACTS

| | |
|--|--|
| CITY OF DELRAY BEACH WATER/SEWER JOHN HOLDMAN WATER & SEWER NETWORK MANAGER 434 S. SWINTON AVENUE DELRAY BEACH, FL 33444 (561) 243-7000, EXT 7309 | FLORIDA PUBLIC UTILITIES CORP. IVAN GIBBS 209 N. SAPODILLA AVENUE WEST PALM BEACH, FL 33401 (561) 723-3459 |
| AT&T GARTH BEDWARD 120 NORTH K STREET, RM 3D-05 LAKE WORTH, FL 33460 PHONE 561-329-5451 | |
| COMCAST STEPHEN ROSA 7201 N. FEDERAL HIGHWAY BOCA RATON, FL 33407 PHONE 561-454-5851 | |
| FLORIDA POWER AND LIGHT APRIL MADISON 9329 S. MILITARY TRAIL BOYNTON BEACH, FL 33436 (561) 777-2671 | |



Delray Beach, FL 33401 10/26/2023 8:06:11 PM Bureau 8/2/2023 8:03:42 PM



CITY of DELRAY BEACH
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Cert No. 6091 - LB No. 7055

ENGINEER'S SEAL

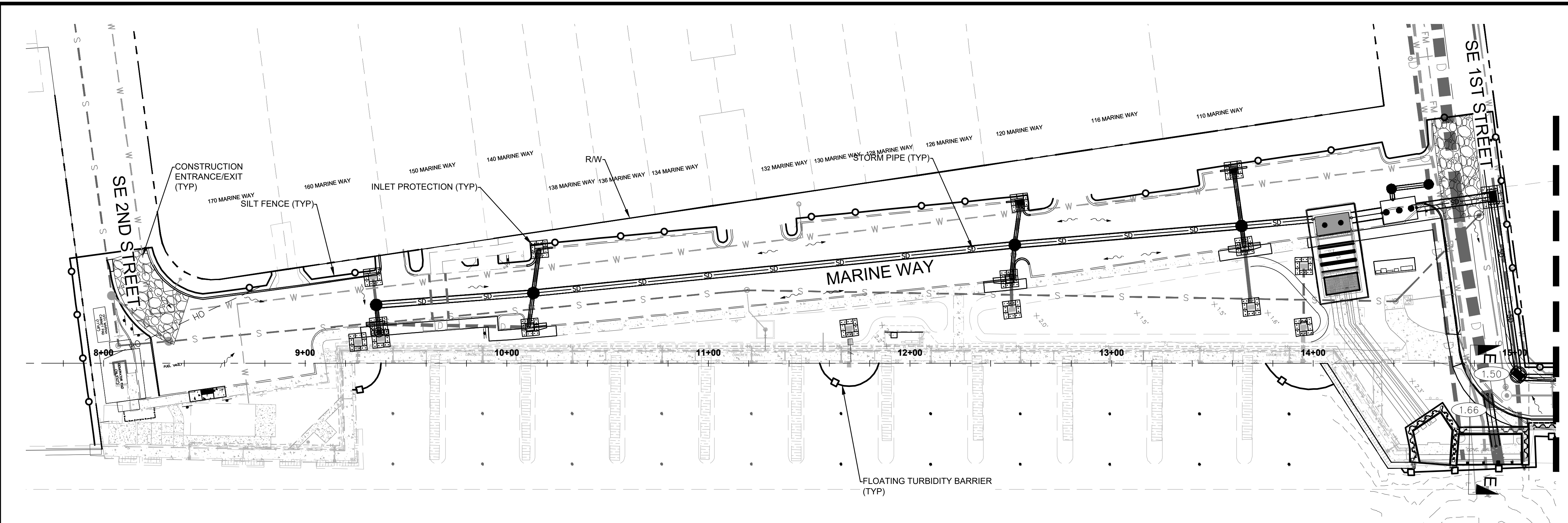
STEPHEN CHERRY, PE
P.E., LIC. NO. 83268

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| DRAWN BY | SCC | | | | |
| CHECKED BY | BNO | | | | |
| QC BY | CJH | | | | |
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THE CITY OF DELRAY BEACH
HISTORIC MARINE WAY SEAWALL,
ROADWAY, AND DRAINAGE IMPROVEMENT

GENERAL NOTES

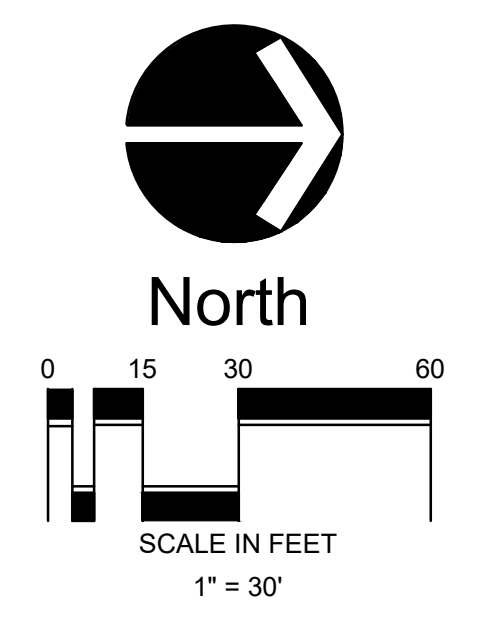
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| PROJECT NO. | 17-047 |
| SHEET NO. | C2.0 |
| FILE ID. | 2898.01 |



MATCHLINE BELOW

LEGEND

- R/W LINE
- PROP DRAINAGE MAIN
- PROP SEWER MAIN
- PROP WATER MAIN
- EX SEWER MAIN
- EX WATER MAIN
- EX DRAINAGE MAIN
- SILT FENCE
- FLOATING TURBIDITY BARRIER
- INLET PROTECTION



NOTES:

GENERAL: CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING THE WORK PERFORMED IN THE STORM WATER POLLUTION PREVENTION PLAN IN ACCORDANCE WITH FDOT SPECIFICATION 104 AND FDEP NPDES CRITERIA.

1. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES

THE FOLLOWING SEQUENCE OF MAJOR ACTIVITIES SHALL BE FOLLOWED UNLESS THE CONTRACTOR CAN PROPOSE AN ALTERNATIVE THAT IS EQUAL TO OR EXCEEDS THE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES DESCRIBED IN THIS DOCUMENT, AND IS APPROVED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH THE FDOT SPECIFICATION SECTION 104:

- A. PLACEMENT OF ALL EROSION AND SEDIMENTATION CONTROL DEVICES.
- B. CLEARING AND GRUBBING, EARTHWORK REQUIRED FOR GRADE ADJUSTMENT.
- C. UNDERGROUND CONSTRUCTION: STORM SEWER SHALL GENERALLY BE CONSTRUCTED IN THE UPSTREAM DIRECTION.
- D. EARTHWORK AND CONSTRUCTION ASSOCIATED WITH PROJECT.
- E. FINAL GRADING, PAVEMENT AND GROUND STABILIZATION (SOD, ETC.).
- F. REMOVE ERODED MATERIAL, SEDIMENT AND EROSION CONTROLS.

2. EROSION AND SEDIMENT CONTROLS

THE GENERAL CONTROL PLAN FOR SITE ACTIVITIES IS AS FOLLOWS:

- A. INSTALL SOIL TRACKING PREVENTION DEVICES (STPDS) AT COMMON AREAS WHERE CONSTRUCTION VEHICLES WILL BE ENTERING AND EXITING THE CONSTRUCTION SITE IN ACCORDANCE WITH THE FDOT SPECIFICATION SECTION 106.
- B. INSTALL TYPE III SILT FENCE AT THE LIMITS OF CONSTRUCTION. ALL SILT FENCE WILL BE PLACED AT THE R/W LINE OR AT THE TOE OF SLOPES.
- C. PROTECT THE OUTFALL CONTROL STRUCTURES, HEADWALLS, AND ALL STORM DRAIN INLETS IDENTIFIED IN THE PLANS USING TYPE III SILT FENCE AND HAY BALES.

3. STABILIZATION PRACTICES

TEMPORARY: SOD, SEED, AND MULCH IN ACCORDANCE WITH THE FDOT SPECIFICATION SECTION 104.

PERMANENT: ASPHALT OR CONCRETE SURFACE: SOD IN ACCORDANCE WITH FDOT SPECIFICATION SECTION 570. ALL STABILIZATION PRACTICES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. THE CONTRACTOR IS ALSO RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP IN ACCORDANCE WITH THE FDOT SPECIFICATION SECTION 104.

4. STRUCTURAL PRACTICES

TEMPORARY: SILT FENCE IN ACCORDANCE WITH STANDARD INDEX 102 AND THE FDOT SPECIFICATION SECTION 104; INLET PROTECTION IN ACCORDANCE WITH FDOT STANDARD INDEX 102 AND AS SHOWN IN THE EROSION CONTROL PLAN. ALL SEDIMENT CONTROLS SHALL BE IN PLACE PRIOR TO ANY SOIL DISTURBING ACTIVITY UPSTREAM OF THE CONTROL.

PERMANENT: STORMWATER PONDS, SWALES, EXFILTRATION TRENCHES

5. OFFSITE VEHICLE TRACKING

SOIL TRACKING PREVENTION DEVICES WILL BE INSTALLED AT ALL LOCATIONS WHERE CONSTRUCTION VEHICLES WILL BE CARRYING SOIL AWAY FROM THE PROJECT SITE. IN ADDITION, CONSTRUCTION VEHICLES WILL BE REQUIRED TO COVER THEIR LOADS TO MINIMIZE LOSS OF LOAD INTO THE AIR. THE CONTRACTOR IS ALSO RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP IN ACCORDANCE WITH THE FDOT INDEX 106.

6. APPROVED STATE AND LOCAL PLANS OR PERMITS

THIS PROJECT IS GOVERNED BY THE CITY OF DELRAY BEACH, PALM BEACH COUNTY, SOUTH FLORIDA WATER MANAGEMENT DISTRICT, AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.

7. MAINTENANCE

SILT FENCE - REPLACE WHEN DAMAGED OR AT ONE (1) YEAR INTERVALS IN ACCORDANCE WITH FDOT SPECIFICATION SECTION 104. REMOVE SEDIMENT WHEN IT REACHES A HEIGHT OF 6".

8. INSPECTIONS

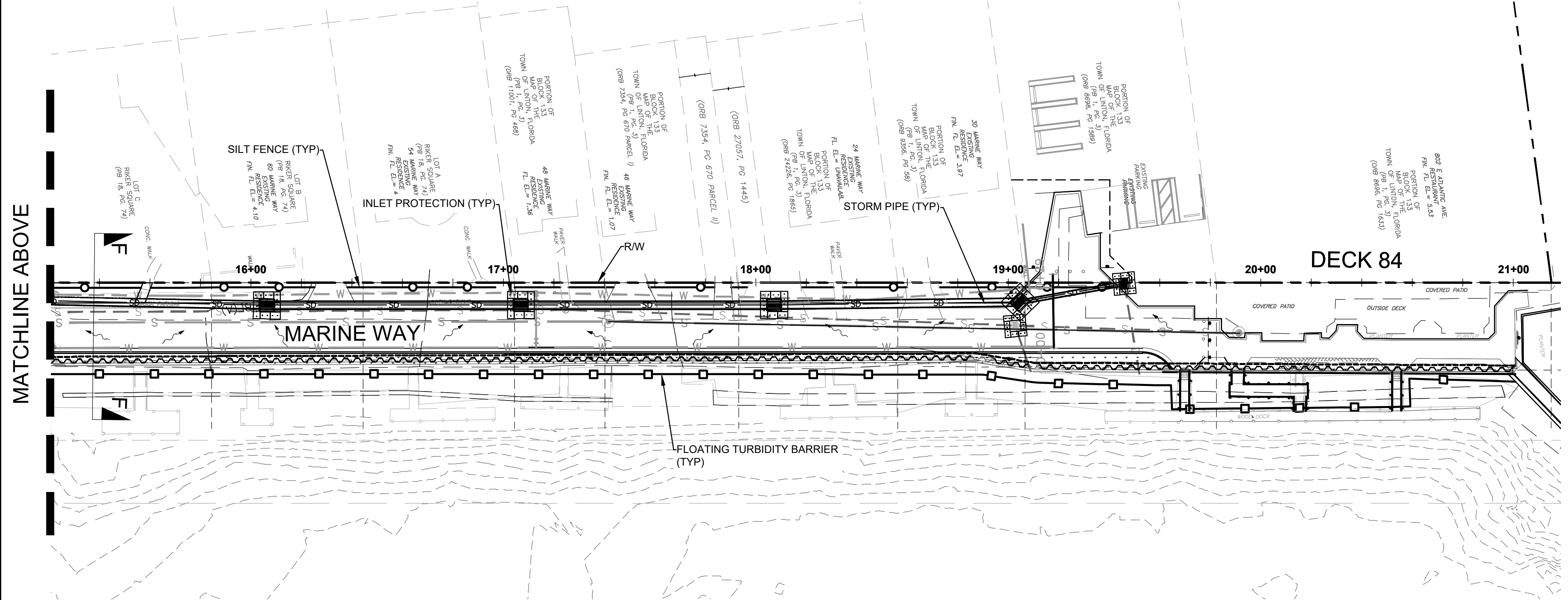
QUALIFIED PERSONNEL SHALL INSPECT THE FOLLOWING ITEMS AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN TWENTY-FOUR (24) HOURS OF THE END OF A STORM THAT IS 0.50 INCHES OR GREATER. WHERE SITES HAVE BEEN FINALLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH AT:

- A. POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES.
- B. POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM SEWER SYSTEMS.
- C. DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
- D. AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
- E. STRUCTURAL CONTROLS.
- F. STORMWATER MANAGEMENT SYSTEMS.
- G. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.


ALL INSPECTIONS SHALL BE DOCUMENTED AND RETAINED ONSITE FOR INSPECTION BY PERMIT COMPLIANCE PERSONNEL. DAMAGED EROSION AND SEDIMENT CONTROL DEVICES FOUND DURING THESE INSPECTIONS SHALL BE REPAIRED WITHIN TWENTY-FOUR (24) HOURS OF THE INSPECTION AND COMPLETED WITHIN SEVENTY-TWO (72) HOURS.

9. SWPPP CONTROLS ARE SHOWN IN CONCEPTUAL LOCATIONS AND MAY BE SYMBOLIC IN SIZE DUE TO THE SCALE OF THE DRAWING, ACTUAL CONDITIONS, AND LOCATION OF CONSTRUCTION ACCESS POINTS. CONTROLS SHALL BE INSTALLED ACCORDING TO THE CONTRACTORS STORM WATER POLLUTION PREVENTION PLAN.

10. PORTABLE TOILETS, FUEL STATIONS, AND OTHER SOURCES OF POTENTIAL POLLUTION SHALL HAVE BERMS CONSTRUCTED AROUND THEM TO PREVENT DIRECT SURFACE FLOW INTO STORM SEWERS.



MATCHLINE ABOVE




CITY of DELRAY BEACH

PUBLIC WORKS DEPARTMENT

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Cert No. 6091 -11B No. 7055

ENGINEERING // SURVEYING // ENVIRONMENTAL // PLANNING

ENGINEER'S SEAL

STEPHEN CHERRY, PE
P.E., LIC. NO. 83268

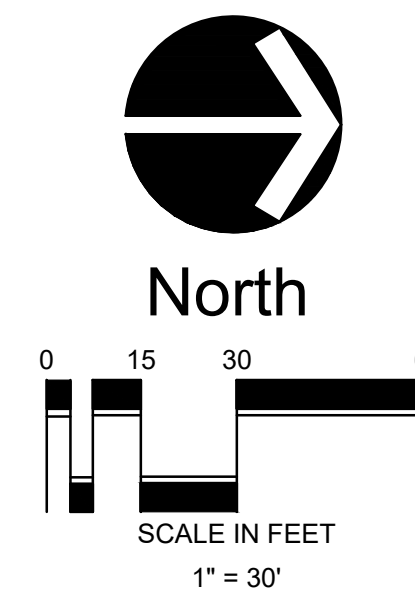
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THE CITY OF DELRAY BEACH
HISTORIC MARINE WAY SEAWALL, ROADWAY,
AND DRAINAGE IMPROVEMENT

STORMWATER POLLUTION PREVENTION PLAN

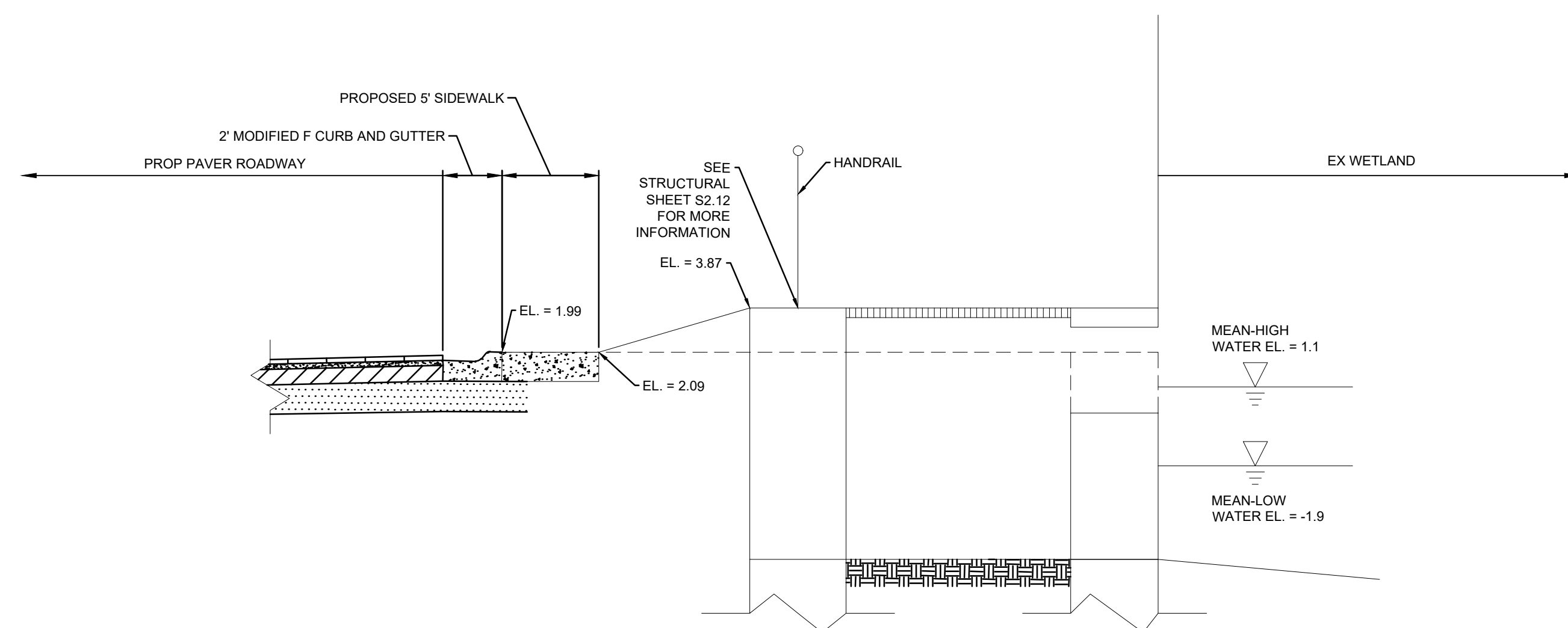
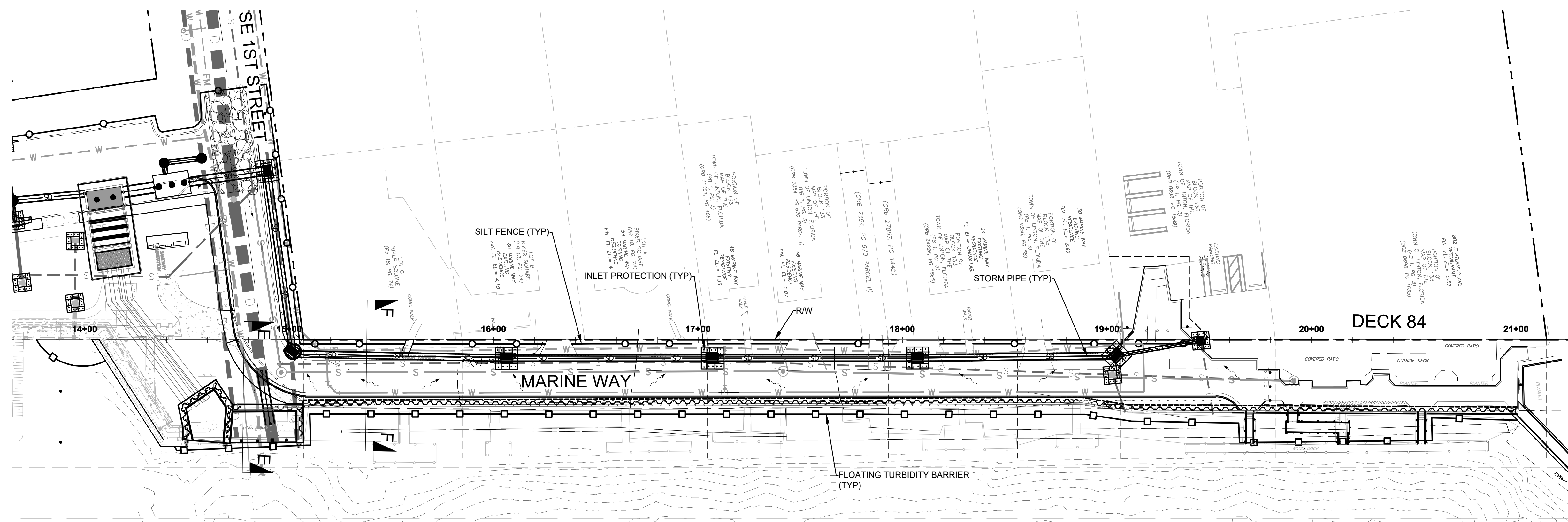
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| SHEET NO. | C4.0 |
| FILE ID. | 2898.01 |

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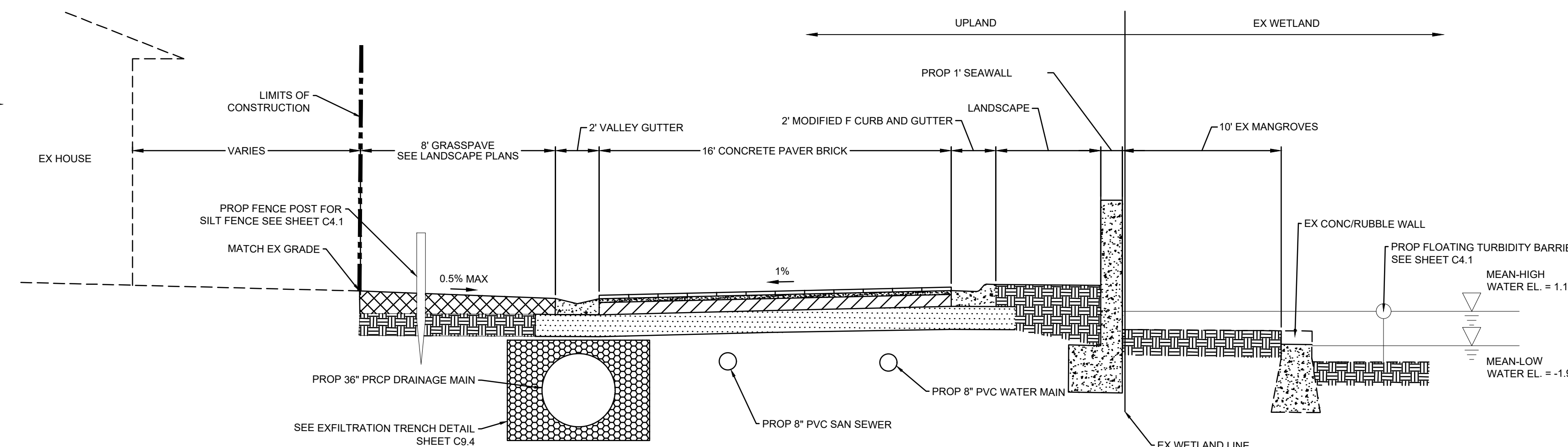


LEGEND

| | |
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| R/W LINE | |
| PROP DRAINAGE MAIN | |
| PROP SEWER MAIN | |
| PROP WATER MAIN | |
| EX SEWER MAIN | |
| EX WATER MAIN | |
| EX DRAINAGE MAIN | |
| SILT FENCE | |
| FLOATING TURBIDITY BARRIER | |
| INLET PROTECTION | |

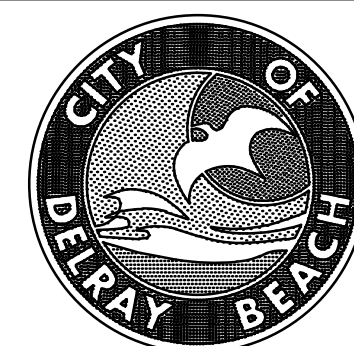


SECTION E-E
SCALE: NTS



NOTE:
1. SEE SHEET C4.1 FOR EROSION CONTROL DETAILS.

SECTION F-F
WETLAND/UPLAND SECTION
SCALE: NTS



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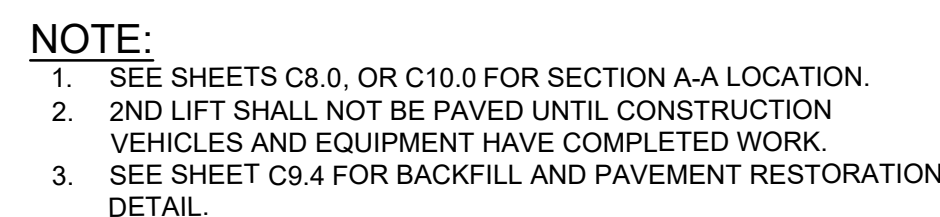
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| DATE | 5/2/2023 | REVISION | DATE | DESCRIPTION | BY |

THE CITY OF DELRAY BEACH
HISTORIC MARINE WAY SEAWALL, ROADWAY,
AND DRAINAGE IMPROVEMENT
STORMWATER POLLUTION PREVENTION
CROSS-SECTIONS

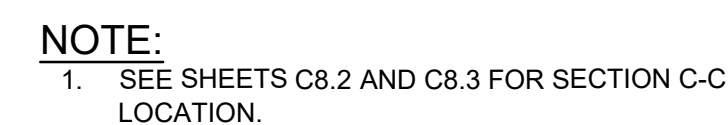
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17-047
SHEET NO.
C4.2
FILE ID. 2898.01



SCALE: NTS
STA = 10+14.57 TO 14+32.10



SCALE: NTS
STA = 21+43.33



SCALE: NTS
STA = 15+11.19 TO 18+99.73



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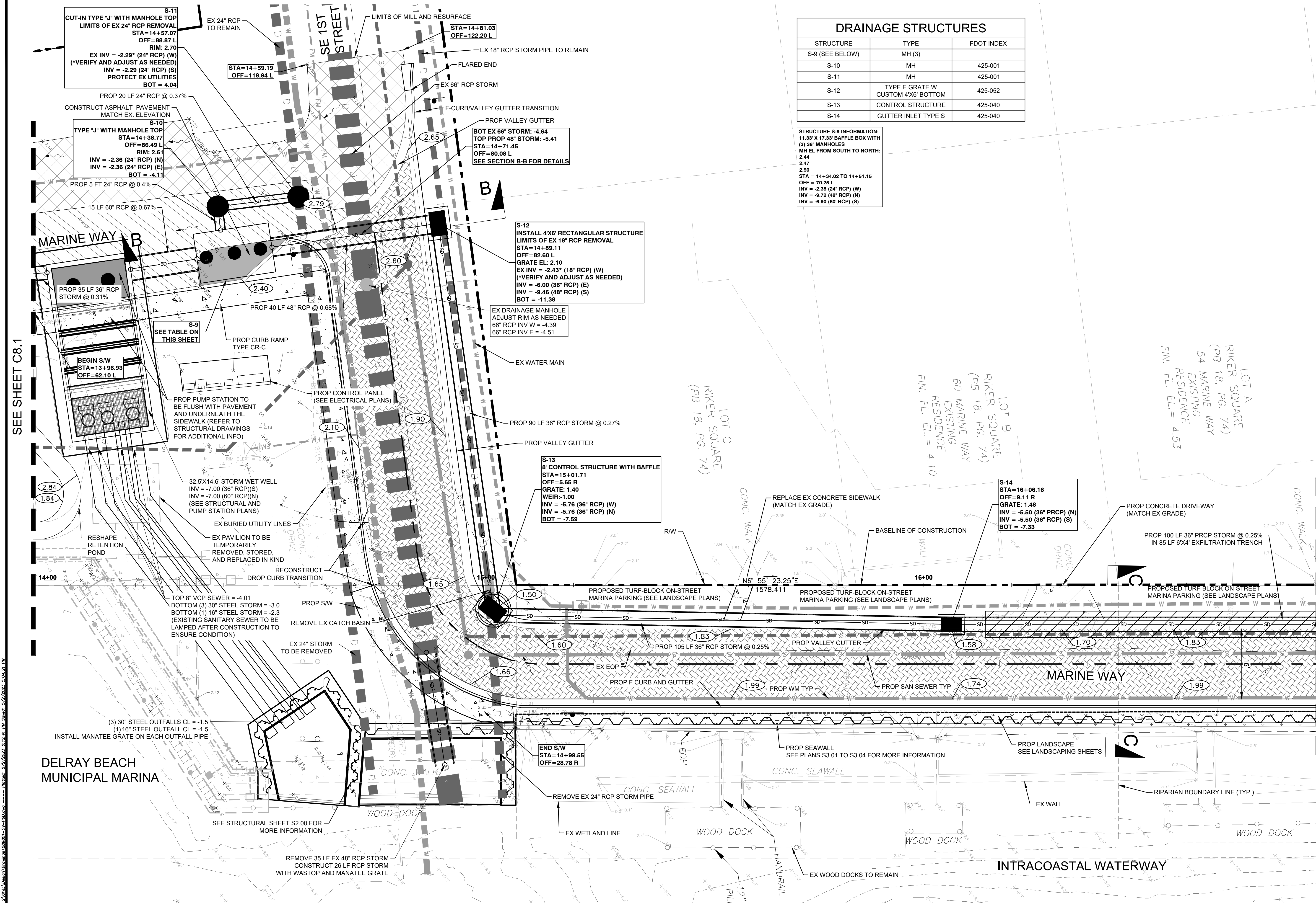
THE CITY OF DELRAY BEACH
HISTORIC MARINE WAY SEAWALL,
ROADWAY, AND DRAINAGE IMPROVEMENT

TYPICAL SECTIONS

17-047

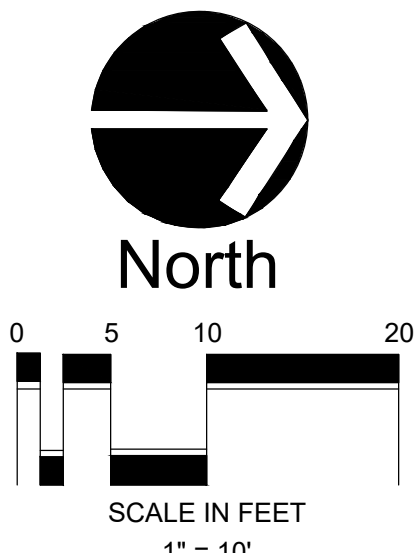
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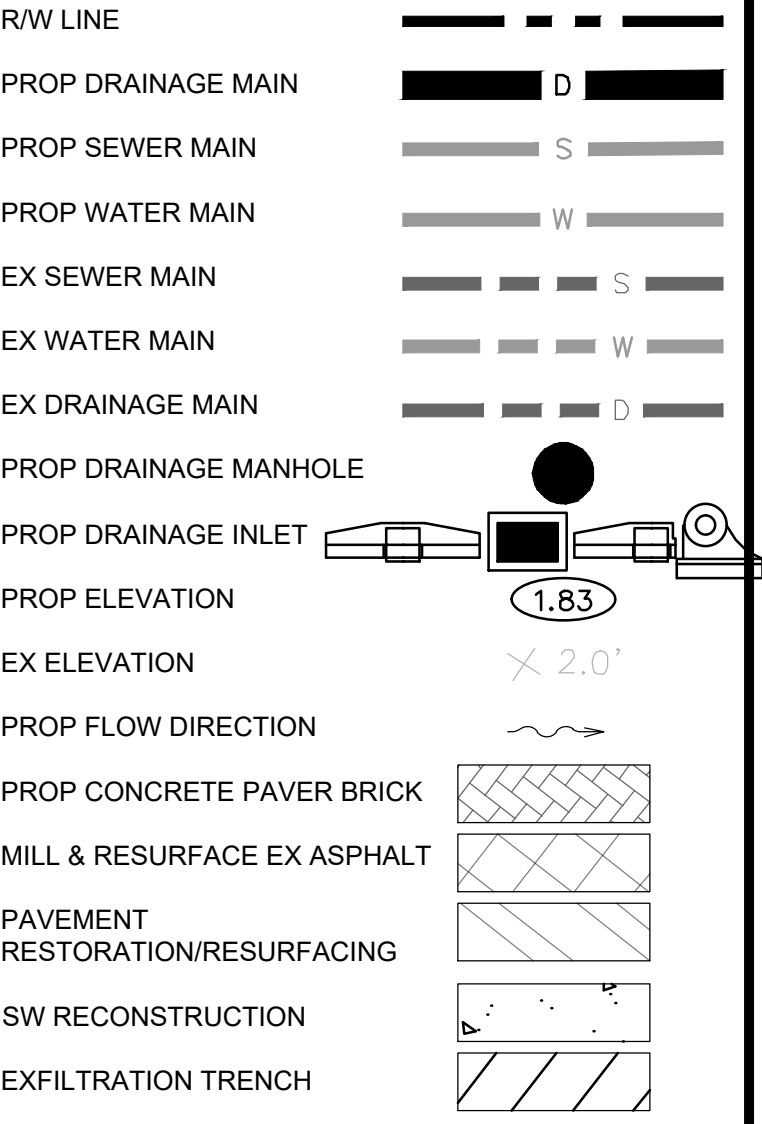


| DRAINAGE STRUCTURES | | |
|---------------------|---------------------------------------|------------|
| STRUCTURE | TYPE | FDOT INDEX |
| S-9 (SEE BELOW) | MH (3) | - |
| S-10 | MH | 425-001 |
| S-11 | MH | 425-001 |
| S-12 | TYPE E GRATE W CUSTOM 4'X6' BOTTOM | 425-052 |
| S-13 | CONTROL STRUCTURE | 425-040 |
| S-14 | GUTTER INLET TYPE S | 425-040 |

STRUCTURE S-9 INFORMATION:
11.33' X 17.33' BAFFLE BOX WITH
(3) 36" MANHOLES
MH EL FROM SOUTH TO NORTH:
2.44
2.47
2.50
STA = 14+34.02 TO 14+51.15
OFF = 70.25 L
INV = -2.38 (24" RCP) (W)
INV = -9.72 (48" RCP) (N)
INV = -6.90 (60" RCP) (S)



ROADWAY LEGEND
SHEETS C8.0 - C8.4



- NOTES:
1. WALKWAYS AND DRIVEWAYS TO BE REPLACED SHALL BE REPLACED WITH CONCRETE UNLESS OTHERWISE NOTED.
 2. SEE SHEET C9.3 FOR DRIVEWAY DETAILS.
 3. ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, AS ESTABLISHED BY NGS BENCHMARK 14.33 WITH A PUBLISHED ELEVATION OF 12.78' (NAVD 88). NAVD'88 = NGVD'29 - 1.48'
 4. FOR SECTIONS B-B AND C-C SEE SHEET C5.0.
 5. DRAINAGE STRUCTURES STATIONS AND OFFSETS ARE REFERENCING THE BASELINE OF CONSTRUCTION.

CITY of DELRAY BEACH

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| DATE | 5/2/2023 | REVISION | DATE | DESCRIPTION | BY |

THE CITY OF DELRAY BEACH

HISTORIC MARINE WAY SEAWALL,
ROADWAY, AND DRAINAGE IMPROVEMENT

ROADWAY PLAN

PROJECT NO.

17-047

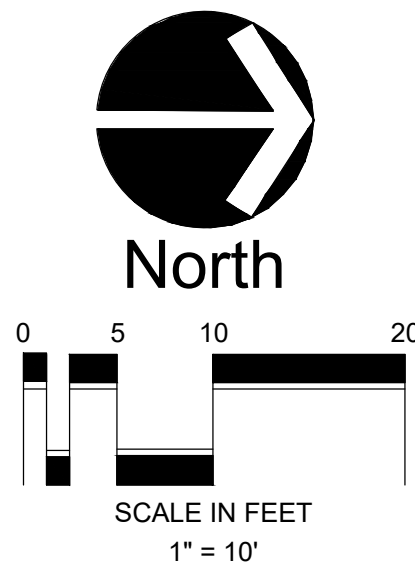
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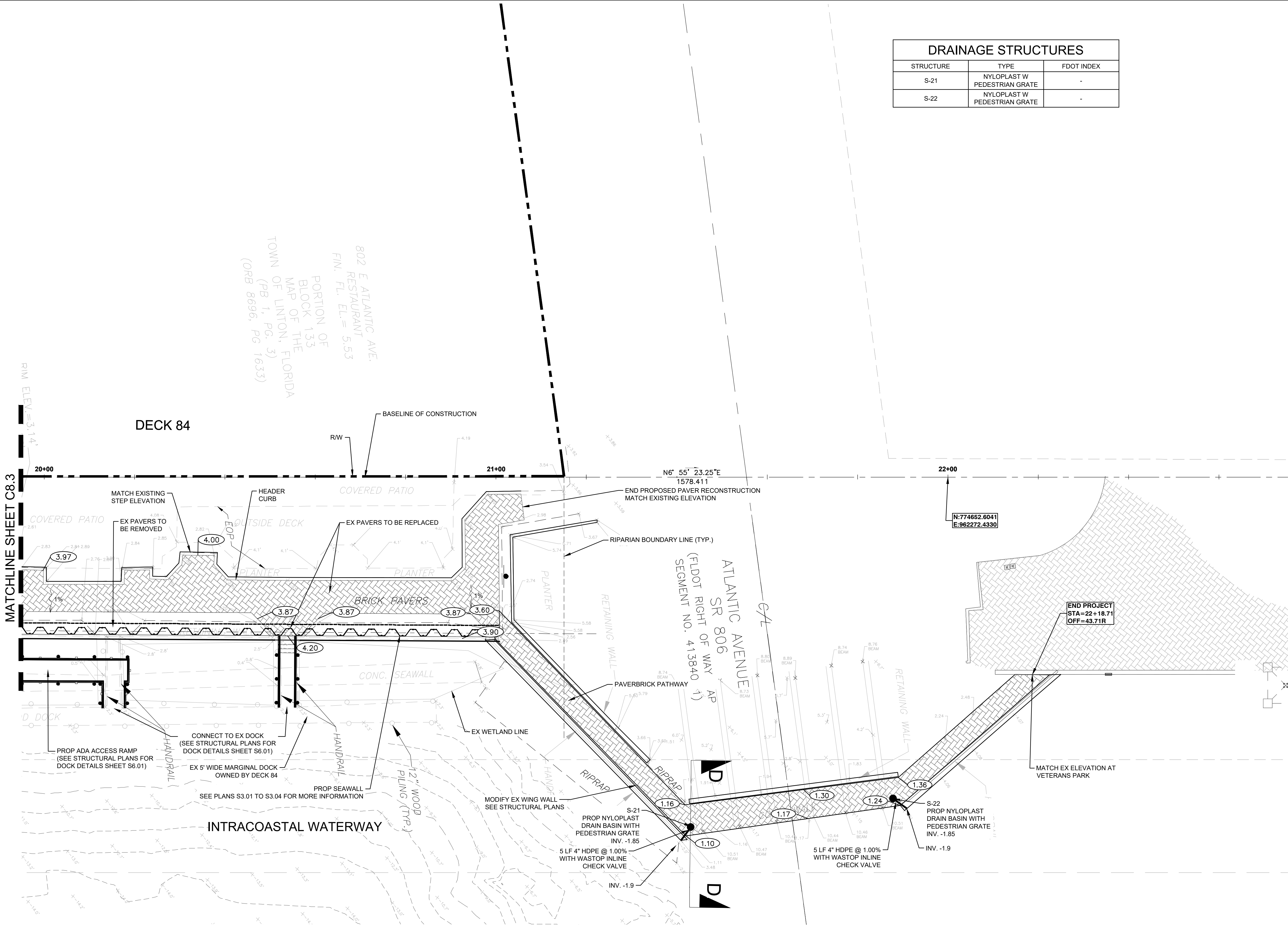
| DRAINAGE STRUCTURES | | |
|---------------------|---------------------------------|------------|
| STRUCTURE | TYPE | FDOT INDEX |
| S-21 | NYLOPLAST W PEDESTRIAN GRATE | - |
| S-22 | NYLOPLAST W PEDESTRIAN GRATE | - |



**ROADWAY LEGEND
SHEETS C8.0 - C8.4**

| | |
|-------------------------------------|-----------|
| R/W LINE | --- |
| PROP DRAINAGE MAIN | — D — |
| PROP SEWER MAIN | — S — |
| PROP WATER MAIN | — W — |
| EX SEWER MAIN | --- S --- |
| EX WATER MAIN | --- W --- |
| EX DRAINAGE MAIN | --- D --- |
| PROP DRAINAGE MANHOLE | ● |
| PROP DRAINAGE INLET | ⌋ |
| PROP ELEVATION | (1.83) |
| EX ELEVATION | X 2.0' |
| PROP FLOW DIRECTION | ~> |
| PROP CONCRETE PAVER BRICK | [Pattern] |
| MILL & RESURFACE EX ASPHALT | [Pattern] |
| PAVEMENT RESTORATION/RESURFACING | [Pattern] |
| SW RECONSTRUCTION | [Pattern] |
| EXFILTRATION TRENCH | [Pattern] |

- NOTES:**
- FOR SECTION D-D SEE SHEET C5.0
 - SEE STRUCTURAL SHEET S6.01 FOR MORE INFORMATION ABOUT THE STAIRS AND RAMP FOR THE DOCKS OWNED BY DECK 84.



\\delray\p001\17047\17047-01\Drawings\Roadway\17047-01\DWG-C8.4.dwg Plot Date: 5/2/2023 3:42:21 PM Plotted: 5/2/2023 3:42:21 PM User: jay



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Cert No. 6091 - LB No. 7055
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ENGINEER'S SEAL

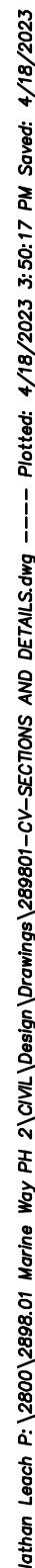
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P.E., LIC. NO. 83268

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| DATE | 5/2/2023 | REVISION | DATE | DESCRIPTION | BY |

THE CITY OF DELRAY BEACH
HISTORIC MARINE WAY SEAWALL,
ROADWAY, AND DRAINAGE IMPROVEMENT

ROADWAY PLAN

| | |
|-------------|---------|
| PROJECT NO. | 17-047 |
| SHEET NO. | C8.4 |
| FILE ID. | 2898.01 |



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THE CITY OF DELRAY BEACH
HISTORIC MARINE WAY SEAWALL,
ROADWAY, AND DRAINAGE IMPROVEMENT

SECTION

| | |
|-------------|---------|
| PROJECT NO. | 17-047 |
| SHEET NO. | EX-1 |
| FILE ID. | 2898.01 |

North Arrow
Scale in Feet
1" = 10'

MATCHLINE SHEET C5.0

MATCHLINE SHEET C5.2

LEGEND

- RIGHT OF WAY
EX. SEWER MAIN
EX. WATER MAIN
EX. DRAINAGE MAIN
EX. DRAINAGE MANHOLE
EX. DRAINAGE INLET
EX. SAN SEWER MANHOLE
EX. ELEVATION
EX. BRICK PAVERS
EX. CONCRETE
EX. DRIVEWAY TO BE REMOVED
EX. SIGN
ELECTRICAL JUNCTION BOX
ELECTRIC METER
GATE VALVE (WV = WATER VALVE)
GUY WIRE ANCHOR
TELEPHONE RISER
TREE SYMBOL
WATER METER
WOOD POWER POLE

NOTE
1. ELEVATIONS SHOWN ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM (NAVD'88) NAVD'88 = NGVD'29 - 1.48'



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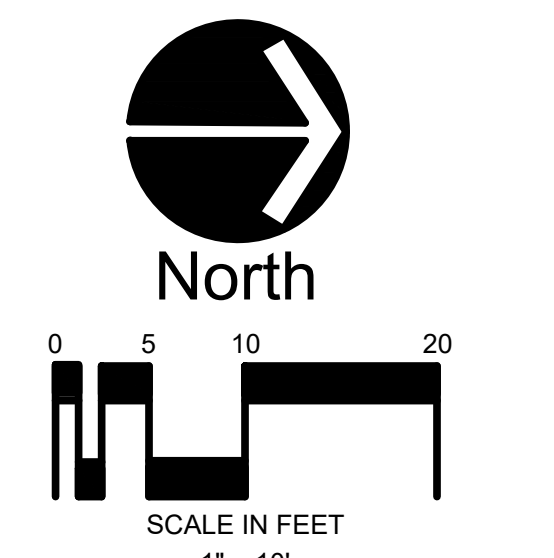
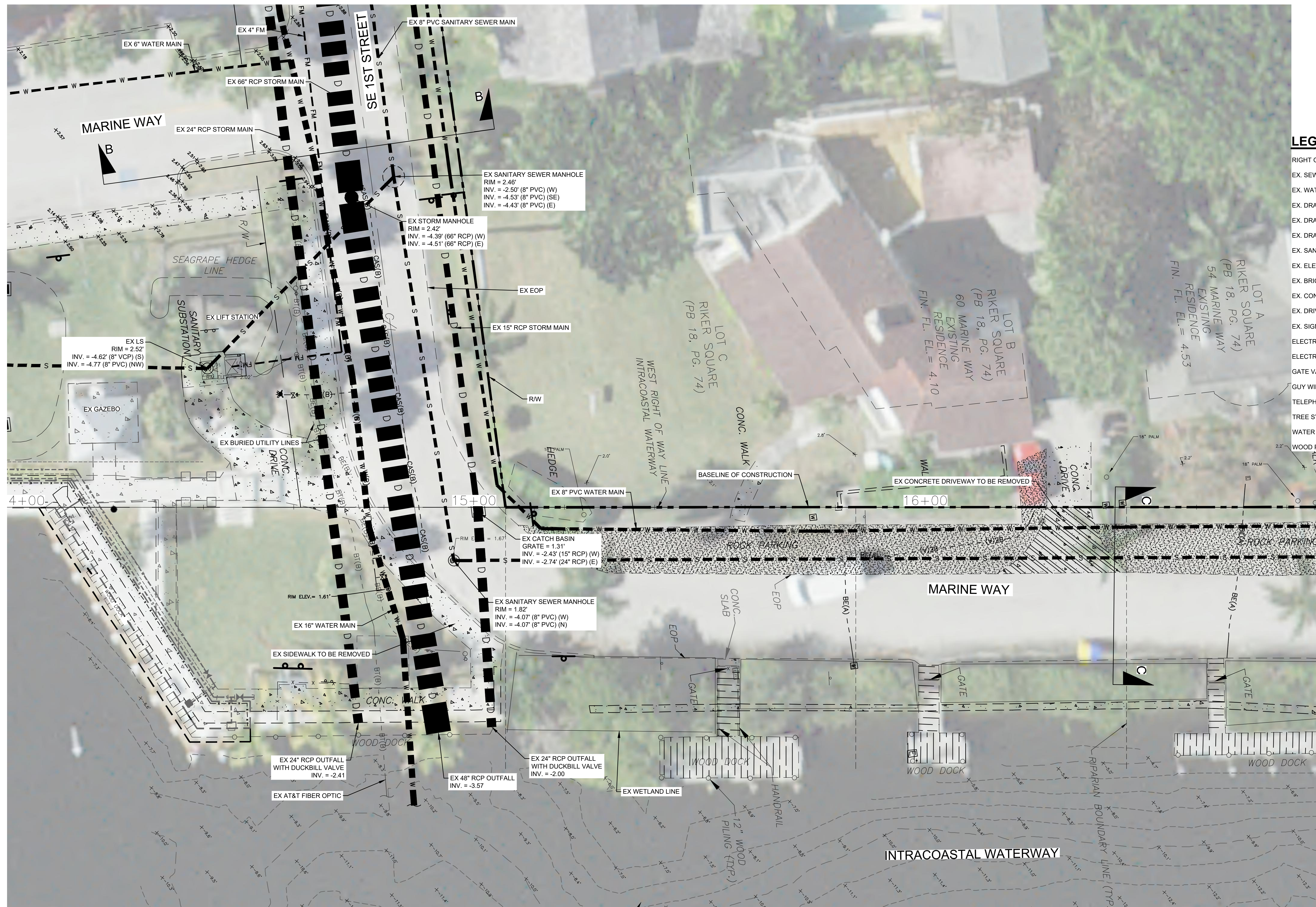
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THE CITY OF DELRAY BEACH
MARINE WAY SEAWALL, DRAINAGE, AND
ROADWAY IMPROVEMENTS PHASE II




















EXISTING CONDITIONS

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| PROJECT NO. | 17-047 |
| SHEET NO. | CEX-1 |
| FILE ID. | 2898.01 |

MATCHLINE SHEET C5.1



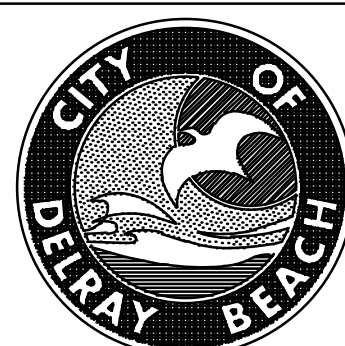
LEGEND

- | | |
|-------------------------------|---|
| RIGHT OF WAY |  |
| EX. SEWER MAIN |  S |
| EX. WATER MAIN |  W |
| EX. DRAINAGE MAIN |  D |
| EX. DRAINAGE MANHOLE |  |
| EX. DRAINAGE INLET |  |
| EX. SAN SEWER MANHOLE |  |
| EX. ELEVATION | $\times 2.0'$ |
| EX. BRICK PAVERS |  |
| EX. CONCRETE |  |
| EX. DRIVEWAY TO BE REMOVED |  |
| EX. SIGN |  |
| ELECTRICAL JUNCTION BOX |  |
| ELECTRIC METER |  |
| GATE VALVE (WV = WATER VALVE) |  |
| GUY WIRE ANCHOR |  |
| TELEPHONE RISER |  |
| TREE SYMBOL |  |
| WATER METER |  |
| WOOD POWER POLE |  |

NOTE
1. ELEVATIONS SHOWN ARE BASED
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VERTICAL DATUM (NAVD'88)
NAVD'88 = NGVD'29 - 1.48'



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THE CITY OF DELRAY BEACH
MARINE WAY SEAWALL, DRAINAGE, AND
ROADWAY IMPROVEMENTS PHASE II

EXISTING CONDITIONS

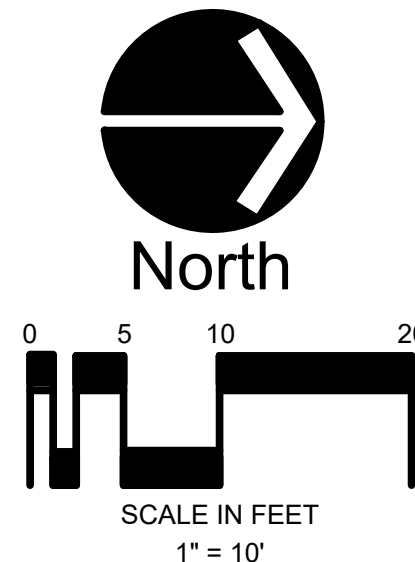
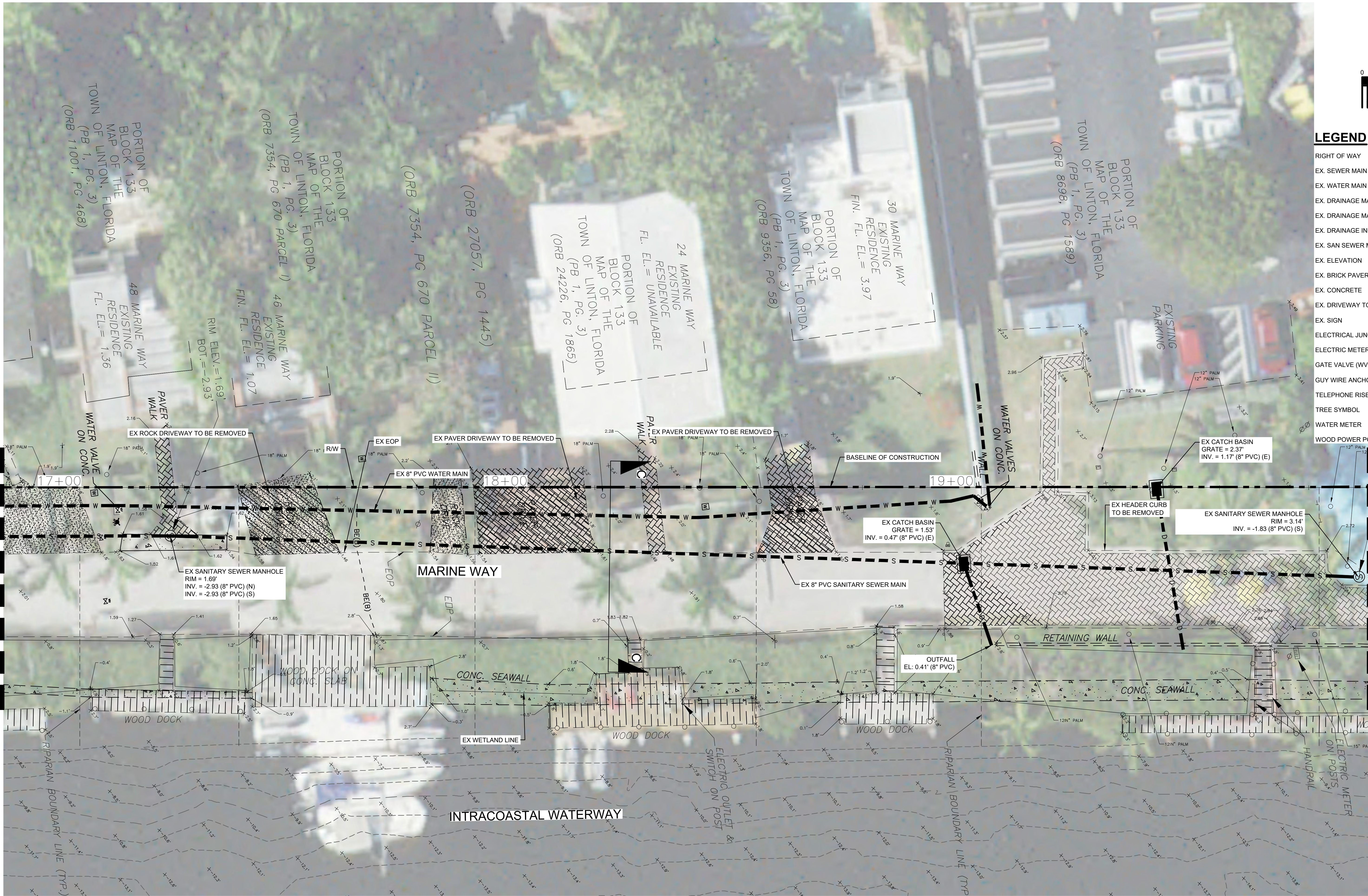
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17-047

SHEET NO.

CEX-2

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| FILE ID. | 2898.01 |
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- LEGEND**
- RIGHT OF WAY
 - EX. SEWER MAIN
 - EX. WATER MAIN
 - EX. DRAINAGE MAIN
 - EX. DRAINAGE MANHOLE
 - EX. DRAINAGE INLET
 - EX. SAN SEWER MANHOLE
 - EX. ELEVATION
 - EX. BRICK PAVERS
 - EX. CONCRETE
 - EX. DRIVEWAY TO BE REMOVED
 - EX. SIGN
 - ELECTRICAL JUNCTION BOX
 - ELECTRIC METER
 - GATE VALVE (WV = WATER VALVE)
 - GUY WIRE ANCHOR
 - TELEPHONE RISER
 - TREE SYMBOL
 - WATER METER
 - WOOD POWER POLE

MATCHLINE SHEET C5.4

MATCHLINE SHEET C5.2

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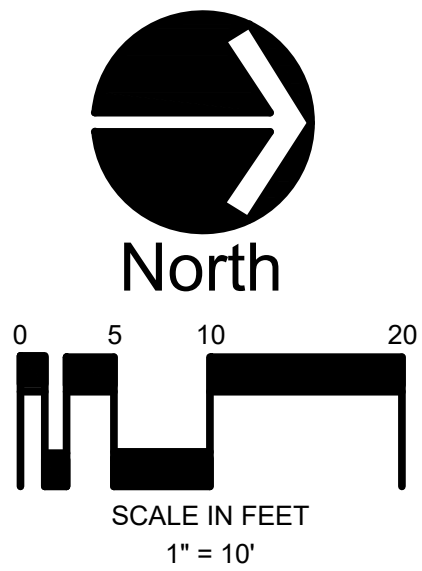
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| | | QC BY | CJH | | | | | | |
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THE CITY OF DELRAY BEACH
MARINE WAY SEAWALL, DRAINAGE, AND
ROADWAY IMPROVEMENTS PHASE II

EXISTING CONDITIONS

| | |
|-------------|---------|
| PROJECT NO. | 17-047 |
| SHEET NO. | CEX-3 |
| FILE ID. | 2898.01 |



LEGEND

- RIGHT OF WAY
- EX. SEWER MAIN
- EX. WATER MAIN
- EX. DRAINAGE MAIN
- EX. DRAINAGE MANHOLE
- EX. DRAINAGE INLET
- EX. SAN SEWER MANHOLE
- EX. ELEVATION
- EX. BRICK PAVERS
- EX. CONCRETE
- EX. DRIVEWAY TO BE REMOVED
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THE CITY OF DELRAY BEACH
MARINE WAY SEAWALL, DRAINAGE, AND
ROADWAY IMPROVEMENTS PHASE II

EXISTING CONDITIONS

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|-------------|---------|
| PROJECT NO. | 17-047 |
| SHEET NO. | CEX-4 |
| FILE ID. | 2898.01 |

GENERAL NOTES

GENERAL SPECIFICATIONS:

FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. (JULY 2022)

DESIGN SPECIFICATION:

FLORIDA BUILDING CODE 2020, 7TH EDITION (FBC)
ACI 318-14 BUILDING CODE REQUIREMENT FOR STRUCTURAL CONCRETE.
ACI 350: CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES

DESIGN LOADING:

LIVE LOAD = 100 PSF

WIND DESIGN IN ACCORDANCE WITH ASCE 7-10:

VELOCITY(U)LT = 170 MPH (3 SEC.)
VELOCITY(ASD) = 133 MPH (3 SEC.)
RISK CATEGORY II
EXPOSURE = D
k/z = 1.03
k/zs = 1.0
kd = 0.85
q/z = 28.6 PSF (SERVICE)

SEISMIC DESIGN DATA:

RISK CATEGORY
I/e = 1.0
S/s = 0.05
S/1 = 0.03
SITE CLASS = D
S/Ds = 0.053
S/D1 = 0.048
SEISMIC DESIGN CATEGORY = A
R = 1.25
C/s = 0.043
V = 0.043W

GROUND SNOW LOAD = 0 PSF

FLOOD ZONE AE (EL. 6 NAVD)

GEOTECHNICAL:

1. SEE GEOTECHNICAL BORINGS ON SHEET S0.05 – S0.06.

2. THE CONTRACTOR IS TO REVIEW THE SOIL BORINGS AVAILABLE. THE CONTRACTOR, AT THEIR OWN EXPENSE, MAY PERFORM ADDITIONAL SOIL INVESTIGATION, EXPLORATION, AND/OR SOIL BORINGS.

3. THE CONTRACTOR SHALL USE ANY METHOD NECESSARY TO INSTALL THE PILES PER THE CONTRACT DOCUMENTS. NO ADDITIONAL CONTRACT DAYS(TIME) OR COMPENSATION WILL BE PROVIDED FOR METHODS CHOSEN OR DUE TO PILES NOT MEETING REQUIREMENTS.

CONCRETE NOTES:

1. MINIMUM 28 DAY STRENGTH (F'c) = 5,500 PSI

2. MAXIMUM WATER TO CEMENT RATIO (W/C) = 0.41

3. MINIMUM CONCRETE COVER SHALL BE: (INCHES)
SLAB: 2.5
BEAMS AND COLUMNS: 2
EXPOSED UNPROTECTED CONCRETE: 3
FORMED CONCRETE BELOW GRADE: 4
UNFORMED CONCRETE BELOW GRADE: 4.5

4. CONCRETE CONSTRUCTION TECHNIQUES SHALL CONFORM TO THE "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301).

5. PROVIDE 3/4 INCH CHAMFERS ON ALL EXPOSED EDGES AND CORNERS EXCEPT AS OTHERWISE NOTED.

6.CONSTRUCTION JOINTS WILL BE PERMITTED ONLY AT THE LOCATIONS INDICATED ON THE PLANS. ADDITIONAL CONSTRUCTION JOINTS OR ALTERATIONS TO THOSE SHOWN WILL REQUIRE APPROVAL BY THE ENGINEER.

7. CONTROL JOINTS SHALL BE SPACED AT A MAXIMUM OF 26" ON CENTER.

8. EXPANSION JOINTS SHALL BE SPACED AT A MAXIMUM OF 100'-0" ON CENTER.

CONCRETE MASONRY NOTES:

1. REINFORCED CONCRETE MASONRY CONSTRUCTION SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES" (ACI 530).

2. VERTICAL CELLS TO BE GROUTED SHALL HAVE VERTICAL ALIGNMENT SUFFICIENT TO MAINTAIN A CLEAR, UNOBSTRUCTED CONTINUOUS CELL.

3. CLEANOUT OPENINGS SHALL BE PROVIDED AT THE BOTTOM OF GROUTED CELLS AT EACH LIFT. CLEANOUTS SHALL BE SEALED AFTER CLEANING AND INSPECTION, AND BEFORE GROUTING.

4. REINFORCING STEEL SHALL BE LAPPED 48 BAR DIAMETER MINIMUM WHERE SPLICED AND SHALL BE EITHER SEPARATED BY ONE BARCDIAMETER OR WIRED TOGETHER.

5. WHEN GROUTING IS STOPPED FOR ONE (1) HOUR OR LONGER, THE GROUT SHALL BE STOPPED 1-1/2" BELOW THE TOP OF THE UPPERMOST UNIT. CONCRETE MASONRY NOTES (CONTINUED):

6. GROUT SHALL BE PLACED IN LIFTS NOT TO EXCEED 12'-0" MAXIMUM.

7. VERTICAL WALL REINFORCING SHALL BE DOWELED TO SLAB BELOW AND TO BEAM ABOVE.

8. MASONRY SHALL BE ANCHORED TO SUPPORTING BEAMS AND COLUMNS UNLESS OTHERWISE NOTED. MASONRY UNITS LAID TO CONCRETE SHALL BE SUPPORTED BY DOVETAIL ANCHORS SPACED AT 16" OR WITH AN EQUIVALENT SYSTEM.

9. MASONRY WALLS SHALL BE BRACED TO RESIST LATERAL LOADS UNTIL ADEQUATE BRACING IS PROVIDED BY THE OTHER COMPONENTS OF THE STRUCTURE.

10. GROUTED CELLS WITH A #6 REINFORCING BAR SHALL BE PLACED AT ALL DOOR, LOUVER AND WINDOW JAMBS AND AS OTHERWISE INDICATED.

11. FILL MASONRY CELLS AT DOORS AND WINDOW JAMBS SOLID WITH MORTAR OR GROUT.

12. MASONRY GROUT SHALL BE MIXED WITH SUFFICIENT WATER TO GIVE A FLUID CONSISTENCY WITHOUT SEGREGATION OF MATERIALS.

13. GROUT SLUMP TO BE MAINTAINED BETWEEN 10" AND 11".

14. CONCRETE MASONRY 28-DAY COMPRESSIVE STRENGTH OF AVERAGE OF THREE UNITS (NET AREA) = 2,000 PSI; MAXIMUM WATER ABSORPTION = 13 LBS/FT3.

15. MASONRY UNITS SHALL CONFORM TO ASTM C90 GRADE N-1.

16. MORTAR TYPE M - ASTM C270 TYPE M (2,500 PSI).

17. MASONRY GROUT SHALL CONFORM TO ASTM C476 (3,000 PSI 28-DAY STRENGTH).

18. ALL CELLS WITH PIPE PENETRATIONS SHALL BE GROUT

REINFORCEMENT:

1. REINFORCEMENT SHALL BE HOT DIPPED GALV. ASTM A615, GRADE 60.

2.ALL DIMENSIONS PERTAINING TO LOCATION OF REINFORCING ARE TO CENTERLINE OF BARS EXCEPT WHERE THE CLEAR DIMENSION IS SHOWN TO FACE OF CONCRETE.

3. REINFORCEMENT DETAIL DIMENSIONS ARE OUT-TO-OUT OF BARS.

POST-INSTALLED ANCHORS:

1. MECHANICAL ANCHORS (EXPANSION ANCHOR) SYSTEMS INTO CONCRETE:

A. KWIK BOLT TZ BY HILTI
B. STRONG-BOLT 2 BY SIMPSON STRONGTIE
C. POWER-STUD+ SD2 BY DEWALT

2. MECHANICAL ANCHORS (EXPANSION ANCHOR) SYSTEM INTO CONCRETE MASONRY:

A. KWIK BOLT 3 BY HILTI
B. WEDGE-ALL BY SIMPSON STRONGTIE
C. POWER-STUD SD1 BY DEWALT

3. ADHESIVE ANCHOR SYSTEM INTO CONCRETE:

A. ULTRABOND HS-1CC (ICC ES ESR-4094) BY ADHESIVE TECHNOLOGY
B. HILTI HIT-RE 500 V3 (ICC ES ESR-3814) BY HILTI
C. SET-XP (ICC ES ESR-2508) BY SIMPSON STRONGTIE
D. PURE 110+ (ICC ES ESR-3298) BY DEWALT

4. ADHESIVE ANCHOR SYSTEM INTO CONCRETE MASONRY:

A. HILTI HIT-HY 200A (ICC ES ESR-3963) BY HILTI
B. SET -XP (ICC ES ESR-265) BY SIMPSON STRONGTIE
C. PE 1000+ (ICC ES ESR-2583) BY DEWALT

5. POST-INSTALLED ANCHORS SHALL BE INSTALLED USING A PRODUCT SPECIFIED ABOVE OR AN ENGINEER APPROVED EQUIVALENT.

6. ALL POST-INSTALLED ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. INSTALLERS SHALL BE TRAINED BY THE MANUFACTURER'S REPRESENTATIVE.

STRUCTURAL STEEL:

1. ALL STEEL DETAILS AND CONNECTION SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" LOAD AND RESISTANCE FACTOR DESIGN (LRFD).

2. STEEL MATERIAL AND CONNECTION MATERIAL SHALL CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS UNLESS NOTED OTHERWISE:

A. ANGLES: ASTM A276 TYPE 316
B. PLATES: ASTM A240 TYPE 316
C. TUBES: ASTM A554 TYPE 316
D. BOLTS: ASTM F593 TYPE 316; OR ASTM 325 TYPE 3 WHERE INDICATED
E. NUTS: ASTM F594 TYPE 316
F. WASHERS: SS316
G. ANCHOR RODS: ASTM F593 TYPE 316
H. HEADED STUDS ASTM F593 TYPE 316
I. WELD ELECTRODES: E316-XX

3. ALL STEEL TUBES TO HAVE 1/4" END CLOSURE PLATES

4. SPLICES ONLY ALLOWED AT THE LOCATION SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS.

5. SHOW ALL COPES, HOLES, OPENING AND MODIFICATION REQUIRED IN STRUCTURAL STEEL MEMBERS FOR ERECTION OR THE WORK OF OTHER TRADES ON THE SHOP DRAWINGS FOR APPROVAL BY STRUCTURAL ENGINEER.

6. FIELD MODIFICATION OF STRUCTURAL STEEL IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE ENGINEER OF RECORD.

7. SHOP DRAWINGS SHALL BE PREPARED UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF FLORIDA, INCLUDING COMPLETE DETAILS AND SCHEDULES FOR FABRICATION AND ASSEMBLY OF STRUCTURAL STEEL MEMBERS WITH PROCEDURES AND DIAGRAMs.

8. SUBMIT CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS TO ENGINEER OF RECORD FOR REVIEW BEFORE THE REVIEW OF SHOP DRAWINGS.

9. BOLTED CONNECTIONS SHALL BE F593 TYPE 316 BEARING-TYPE CONNECTIONS UNLESS OTHERWISE NOTED.

10. ALL WELDING SHALL CONFORM TO THE REQUIREMENT OF THE STRUCTURAL WELDING CODE, ANSI/AWS D1.1.

11. TRAFFIC GRATING

A. TRAFFIC GRATING SHALL BE LOAD RATED FOR HS-20 LOADING AND SHALL BE MINIMUM 3/8" X 4" BEARING BARS @15/16" O.C. WITH CROSS BARS @ 2" O.C. ALL COMPONENTS SHALL BE SS TYPE 316

12. PEDESTRIAN GRATING

B. PEDESTRIAN SHALL BE RATED FOR 200 PSF AND BE MINIMUM 3/8" X 2" BEARING BARS @15/16" O.C. WITH CROSS BARS @ 4" O.C. ALL COMPONENTS SHALL BE SS TYPE 316 STAINLESS STEEL

STRUCTURAL ALUMINUM NOTES:

1. DESIGN OF THE ALUMINUM STRUCTURES SHALL CONFORM TO THE CURRENT EDITION OF THE ALUMINUM ASSOCIATION SPECIFICATIONS AND GUIDELINES FOR ALUMINUM STRUCTURES.

2. FABRICATE ALL STRUCTURAL ALUMINUM IN ACCORDANCE WITH THE ALUMINUM ASSOCIATION AA ASM 35, ALUMINUM SHEET METAL WORK IN BUILDING CONSTRUCTION, AND AA ADM 1, ALUMINUM DESIGN MANUAL.

3. ALL ALUMINUM CONSTRUCTION USING 6000 SERIES ALUMINUM ALLOYS. STRUCTURAL MEMBERS TO BE 6061-T6, ALUMINUM ALLOY, MILL FINISH, UNLESS NOTED OTHERWISE.

4. WELDING SHALL BE IN ACCORDANCE WITH ANSI/ASW D1.2/D1.2M-2014 GAS METAL ARC WELDING (GMAW) PROCESS BY EXPERIENCED OPERATORS.

5. ALL FASTENERS TO BE 18-8 (SERIES 316) STAINLESS STEEL UNLESS NOTED OTHERWISE.

6. ALL SURFACES, MEMBERS AND THEIR WELDED JOINTS SHALL BE SMOOTH AND FREE FROM SHARP OR JAGGED EDGES.

7. COAT ALL ALUMINUM IN CONTACT WITH CONCRETE AND OTHER DISSIMILAR METALS WITH BITUMINOUS PAINT ON THE CONTACT SURFACE, 30# FELT, OR NEOPRENE BEARING MATERIAL.

WOOD:

1. ALL WOOD SHALL BE PRESSURE TREATED SOUTHERN YELLOW PINE (E= 1,600 KSI MIN) 19% MOISTURE CONTENT.

2. WOOD PRESERVATIVE AND RETENTION SHALL BE FROM THE "SAWN PRODUCTS - UC5C" IN COMMODITY SPECIFICATION A AND IN TABLE 1 OF SECTION 4 IN THE AMERICAN WOOD PRODUCTION ASSOCIATION STANDARD U1-20. SUBMIT PRESERVATIVE TREATMENT AND RETENTION FOR APPROVAL.

3. METAL CONNECTIONS SHALL BE FASTENED IN ACCORDANCE WITH THE MANUFACTURERS' INSTRUCTIONS TO DEVELOP THE MAXIMUM PUBLISHED CAPACITY.

4. ALL WOOD TO WOOD CONNECTION SHALL EMPLOY METAL ANCHORS. INSTALL ALL THE MANUFACTURER SPECIFIED NAILS IN THE MEMBER CONNECTED. ALTERNATE MANUFACTURER CONNECTORS MAY BE SUBMITTED FOR REVIEW.

5. ALL BOLTS SHALL BE FURNISHED WITH STANDARD NUT WASHER, FASTENERS IN CONTACT WITH TREATED WOOD, INCLUDING BOLTS AND NAILS AT SILL PLATES SHALL BE STAINLESS STEEL TYPE 316, UNLESS NOTED OTHERWISE.

6. ALL NAILS TO BE STAINLESS STEEL TYPE 316. COORDINATE BLOCKING LOCATION WITH SHEATHING EDGE AS REQUIRED. ALL NAILS SHALL BE COMMON WIRE NAILS.

7. WOOD BEARING ON WOOD SHALL HAVE A GRACE VYCOR DECKING PROTECTOR INSTALLED.

8. NO ADDITIONAL TIME WILL BE GIVEN FOR PRESSURE TREATED WOOD.

STEEL SHEET PILES:

1. ALL PERMANENT STEEL SHEET PILE SHALL BE A226-700 OR N226 AND MEET THE FOLLOWING MINIMUM PROPERTIES:

MIN. Sx = 48.5 IN³/ FT
MIN. Ix = 419.9 IN⁴/ FT
STEEL GRADE SHALL BE ASTM A572, GRADE 60

2. THE TOP 15 FT. OF BOTH SIDES SHALL BE COATED WITH A COAL TAR EPOXY COATING EXCEPT SECTIONS THAT ARE INDICATED TO BE CAST WITH A CONCRETE FASCIA (THICKNESS IN ACCORDANCE WITH FDOT. APL. PRODUCT SPECIFICATIONS FOR AGGRESSIVE/ HARSH ENVIRONMENT. ALL STEEL SHEET PILING SHALL BE INSTALLED USING HYDRAULIC RAM (PRESS-IN METHOD), USE OF VIBRATORY HAMMER WILL NOT BE PERMITTED.

JET GROUTING:

SEE SPECIFICATIONS SECTION 02281

JET GROUT WALL SHALL HAVE THE FOLLOWING CHARACTERISTICS:

1. DEPTH OF WALL = -32.00 (MIN) NAVD

2. THICKNESS OF WALL = 3.5 FT (MIN)

3. PERMEABILITY OF WALL = 10⁻⁷ GAL/DAY/FT²

4. STIFFNESS OF WALL = 13,725,700 (K"IN²)/FT

PROJECT NOTES:

1.ELEVATIONS SHOWN HEREON ARE BASED ON NAVD '88 DATUM. TO CONVERT TO NGVD '29 ADD 1.535' TO THE NGVD VALUE.

2.EXISTING LOCATIONS AND ELEVATIONS ARE BASED ON SURVEY BY: WGI, INC. PROJECT NO. 41011004.16, DATED 08/31/2016.

3. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT FLOATATION OF STRUCTURES UNTIL CONSTRUCTION IS COMPLETE AND BACKFILL IN PLACED AND COMPACTED

4.CONTRACTOR WILL OPERATE WITH EXTREME CARE AND CAUTION AT AND AROUND UNDERGROUND & SUBAQUEOUS UTILITIES.

5.CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFICATION OF EXISTING UTILITIES INCLUDING UNDERGROUND AND SUBAQUEOUS UTILITIES.

6.CONTRACTOR SHALL REMOVE ANY AND ALL DEBRIS AND RESTORE THE SITE TO ITS PRE-CONSTRUCTION CONDITION AFTER THE WORK IS COMPLETE.

7. ONLY LIGHT EQUIPMENT IS TO BE USED FOR BACK FILLING, COMPACTING, AND FINAL GRADING (E.G. BOBCAT AND HAND OPERATED COMPACTOR). MECHANICAL EQUIPMENT NOT TO COME IN CONTACT WITH NEW CAP.

8. MONITOR EXISTING STRUCTURES IN ACCORDANCE WITH SECTION 108 OF THE STANDARD SPECS.

CONCRETE PILE DATA:
ALL CONCRETE PILES SHALL BE MINIMUM 14" SQUARE PER FDOT INDEX 455-014, 455-001
30 TON BEARING (SERVICE)
15" MINIMUM EMBEDMENT

MANUFACTURER'S REFERENCES AND SUBSTITUTIONS:

1.REFERENCE TO A PARTICULAR MANUFACTURER, TRADE NAME, OR CATALOG NUMBER ESTABLISHES THE QUALITY STANDARDS OF MATERIAL AND EQUIPMENT REQUIRED FOR THIS INSTALLATION IN ACCORDANCE WITH THE FDOT QUALIFIED PRODUCTS LIST, ETC. AND IS NOT INTENDED TO EXCLUDE OR SOLE-SOURCE PRODUCTS EQUAL/EQUIVALENT/SIMILAR IN QUALITY AND DESIGN. WHENEVER THE PLANS SPECIFY A PROPRIETARY PRODUCT, MATERIAL, EQUIPMENT, ETC. AND THE TERM "OR APPROVED EQUAL" IS NOT USED, "OR APPROVED EQUAL" SHALL BE IMPLIED.

2.EQUIVALENT PRODUCTS, MATERIALS, EQUIPMENT, ETC. MAY BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER FOR REVIEW AND APPROVAL AT THE TIME OF CONSTRUCTION (IE: AFTER THE BID), PROVIDED THAT THE CHANGE IS AT NO ADDITIONAL COST TO THE OWNER. ALL STRUCTURAL, ETC. DETAILS SHALL BE REVISED BY THE CONTRACTOR AS REQUIRED TO SUIT THE CERTIFIED DIMENSIONS, SPECIFICATIONS, ETC. OF THE COMPONENTS ACTUALLY BEING FURNISHED AS A RESULT OF A SUBSTITUTION APPROVED BY THE ENGINEER.

QUANTITIES
1. ALL QUANTITIES ARE TO BE VERIFIED BY THE CONTRACTOR PRIOR TO BID.

| SHEET LIST | |
|--------------|---|
| SHEET NUMBER | SHEET NAME |
| S0.01 | GENERAL NOTES |
| S0.02 | GENERAL NOTES |
| S0.03 | SOIL LOG DATA |
| S0.04 | SOIL LOG DATA |
| S1.00 | OVERALL PLAN |
| S2.00 | PHASING PLANS OVERVIEW |
| S2.01 | ENLARGED PHASE I PUMP STATION PLAN |
| S2.02 | ENLARGED PHASE IIA PUMP STATION PLAN |
| S2.03 | ENLARGED PHASE IIB PUMP STATION PLAN |
| S2.04 | ENLARGED PHASE IIIA PUMP STATION PLAN |
| S2.05 | ENLARGED PHASE IIIB PUMP STATION PLAN |
| S2.06 | ENLARGED PHASE IV PUMP STATION PLAN |
| S2.07 | DISCHARGE BAY AND PUMP STATION AREA PLAN VIEW @ -4.0 NAVD |
| S2.08 | PHASE IIIB DISCHARGE BAY/ UTILITY PLAN |
| S2.09 | PHASE IV DISCHARGE/ UTILITY BAY PLAN |
| S2.10 | SEAWALL & DECKING DETAILS |
| S2.11 | FLOOR SLAB BEAM DETAILS, CLOSURE POUR |
| S2.12 | UTILITY BAY DETAILS |
| S2.13 | GENERATOR PLAN AND SECTIONS |
| S2.14 | BACK-UP GENERATOR SECTIONS AND DETAILS |
| S3.01 | ENLARGED MARINE WAY SEAWALL |
| S3.02 | ENLARGED MARINE WAY SEAWALL |
| S3.03 | ENLARGED MARINE WAY SEAWALL |
| S3.04 | ENLARGED MARINE WAY SEAWALL |
| S4.00 | PUMP STATION FOUNDATION PLAN |
| S4.01 | PUMP STATION TOP SLAB PLAN |
| S4.02 | LONGITUDINAL WALL ELEVATIONS |
| S4.04 | TOP SLAB FRAMING & REINFORCEMENT (1 of 3) |
| S4.05 | TOP SLAB FRAMING & REINFORCEMENT (2 of 3) |
| S4.06 | TOP SLAB FRAMING & REINFORCEMENT (3 of 3) |
| S5.00 | MARINE WAY DETAILS |
| S5.01 | MARINE WAY DETAILS |
| S6.00 | ENLARGED MARINE WAY SEAWALL-DEMO |
| S6.01 | ENLARGED MARINE WAY DOCKS |
| S6.02 | WOOD RAMP FRAMING PLAN |
| S6.03 | WOOD DECK FRAMING PLAN AND SECTION |
| S6.04 | WOOD STAIRS AND ACCESS SECTIONS |
| S6.05 | WOOD DECK FRAMING DETAILS |
| S6.06 | WOOD SPLICE DETAILS |

LIST OF FREQUENTLY USED ABBREVIATIONS

ACI -AMERICAN CONCRETE INSTITUTE
ACQ -ALKALINE COPPER QUATERNARY
AISC -AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ANSI -AMERICAN NATIONAL STANDARDS INSTITUTE
ASCE -AMERICAN SOCIETY OF CIVIL ENGINEERS
ASD -ALLOWABLE STRESS DESIGN
ASTM -AMERICAN SOCIETY FOR TESTING AND MATERIALS
CAP -CORRUGATED ALUMINUM PIPE
CCA -CHROMIATED COPPER ARSENATE
CIP -CAST-IN-PLACE
C/L, C -CENTERLINE
CLR -CLEAR
CMP -CORRUGATED METAL PIPE
CPP -CORRUGATED PLASTIC PIPE
DIA., Ø -DIAMETER
EL., ELEV. -ELEVATION
EMBED -EMBEDMENT
EQ. -EQUAL
EX., EXIST. -EXISTING
FAC -FLORIDA ADMINISTRATIVE CODE
FBC -FLORIDA BUILDING CODE
K/2 -FLORIDA DEPARTMENT OF TRANSPORTATION
FRP -FIBER REINFORCED POLYMER
FT -FOOT
GALV -GALVANIZED
GFRP -GLASS FIBER REINFORCED POLYMER
GR -GRADE
IRV -INVERT
KSI -KILOPOUNDS PER SQUARE INCH
LB(S) -POUND(S)
LF -LINEAR FEET
LRFD -LOAD RESISTANCE FACTOR DESIGN
MAX. -MAXIMUM
MIN. -MINIMUM
NAVD '88 -NORTH AMERICAN VERTICAL DATUM OF 1988
NGVD '29 -NATIONAL GEODETIC VERTICAL DATUM OF 1929
NTS -NOT TO SCALE
O.C. -ON CENTER
O.D. -OUTSIDE DIAMETER
PCF -PER CUBIC FOOT
PCI -PER CUBIC INCH
PL, P -PLATE
PSF -PER SQUARE FOOT
PSI -PER SQUARE INCH
RCP -REINFORCED CONCRETE PIPE
RW -RIGHT OF WAY
SEC -SECONDS
SHW -SEASONAL HIGH WATER
SIM -SIMILAR
SPA -SPACING, SPACES
SYP -SOUTHERN YELLOW PINE
TYP -TYPICAL
UON -UNLESS OTHERWISE NOTED



| PILE CRITERIA | | | | |
|---------------------------------|----------------------------------|-----------------------------------|----------------------------------|--------------------------------------|
| TYPE | PILE CUTOFF ELEVATION NAVD (FT.) | BEARING REQUIRED (SERVICE) (TONS) | MINIMUM TIP ELEVATION NAVD (FT.) | NOTES |
| 12 INCH ROUND WOOD DOCK PILES | 2.00 | 15 | -35.00 | PLUMB AND ALIGNED |
| 12 INCH ROUND WOOD FENDER PILES | 15.00 | 20 | -45.00 | 3 PILE CLUSTER, BATTERED (H:V = 1:6) |
| 14 INCH SQUARE CONCRETE PILES | 2.50 | 30 | -23.00 | PLUMB |
| STEEL SHEET PILES | 2.50 | NA | -32.50 | PLUMB AND ALIGNED |



CITY of DELRAY BEACH

PUBLIC WORKS DEPARTMENT

434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444

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West Palm Beach, FL 33411
Phone No. 561.687.2220
Fax No. 561.687.1110
® Registry No. 33574

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| DESIGNED BY | JRB |
| DRAWN BY | DAB |
| CHECK BY | AS |
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| THE CITY OF DELRAY BEACH HISTORIC MARINE WAY SEAWALL, ROADWAY, AND DRAINAGE IMPROVEMENT | | PROJECT NO. 17-047 |
| GENERAL NOTES | | SHEET NO. S0.01 |
| | | FILE ID. 17-047 |

ENVIRONMENTAL NOTES:

1. THE CONTRACTOR SHALL SUBMIT AN EROSION CONTROL PLAN IN ACCORDANCE WITH SECTION 104 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. THE PLAN SHALL INCLUDE, BUT NOT BE LIMITED TO, MEASURES TO CONTROL TURBIDITY, CONTAINMENT AND DISPOSAL OF CONSTRUCTION DEBRIS, AND A SPILL CONTROL REPORTING PLAN.
2. IF SUSPECT CONTAMINATED OR HAZARDOUS MATERIAL IS FOUND ON THE PROJECT OR ENCOUNTERED DURING CONSTRUCTION THE CONTRACTOR SHALL CEASE OPERATION IN THAT AREA. IMMEDIATELY NOTIFY FDEP AND THE PROJECT ENGINEER AND PROTECT THE IMMEDIATE AREA OF SUSPECT CONTAMINATED OR HAZARDOUS MATERIAL FROM FURTHER ACCESS. CONSTRUCTION COORDINATION WILL ARRANGE FOR THE INVESTIGATION, IDENTIFICATION AND/OR REMOVAL/REMEDATION OF THE MATERIAL IN QUESTION AS NEEDED.
3. THE CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT. SHOULD THE CONTRACTOR REQUIRE SUCH FOR PERFORMING THE CONTRACTED WORK, THE CONTRACTOR SHALL REQUEST WRITTEN PERMISSION FROM FDEP AND THE PROJECT ENGINEER. THE CONTRACTOR SHALL PROVIDE A COPY OF THE REQUEST TO THE FDEP AND THE PROJECT ENGINEER. THE CONTRACTOR SHALL PROVIDE THE FDEP AND THE PROJECT ENGINEER WITH A COPY OF THE MATERIAL SAFETY DATA SHEET (MSDS) FOR EACH HAZARDOUS MATERIAL PROPOSED FOR USE, AND PROVIDE A DESCRIPTION OF THE SPECIFIC MANNER IN WHICH THE MATERIAL WILL BE USED. THE PROJECT ENGINEER SHALL COORDINATE WITH THE FDEP PRIOR TO ISSUING WRITTEN APPROVAL TO THE CONTRACTOR, BECAUSE STATE LAW DOES NOT TREAT PETROLEUM PRODUCTS THAT ARE PROPERLY CONTAINERIZED AS HAZARDOUS MATERIALS. SUCH PRODUCTS DO NOT REQUIRE AN MSDS SUBMITTAL. ALL BULK PETROLEUM PRODUCTS STORED ON SITE SHALL REQUIRE PROPER STORAGE WHICH INCLUDES SECONDARY CONTAINMENT.
4. THE CONTRACTOR SHALL INSTRUCT ALL PERSONNEL OF THE POTENTIAL PRESENCE OF PROTECTED MAMMALS, REPTILES AND BIRDS. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL AND STATE REQUIREMENTS AND CHAPTER 7-1.4 OF THE FDOT STANDARD SPECIFICATIONS FOR PROTECTED SPECIES.

5. SPECIFIC REQUIREMENTS FOR UNEXPECTED INTERACTION WITH CERTAIN PROTECTED SPECIES DURING WORK ACTIVITIES MAY BE FOUND AT:
<http://www.dot.state.fl.us/programmanagement/Implemented/URLinSpecs/files/endangeredwildlifeguidelines.pdf>

6. THE CONTRACTOR SHALL LEGALLY DISPOSE OF SPOILS OFF SITE AND NOT IN THE ADJACENT WATER BODIES.

EROSION CONTROL NOTES:

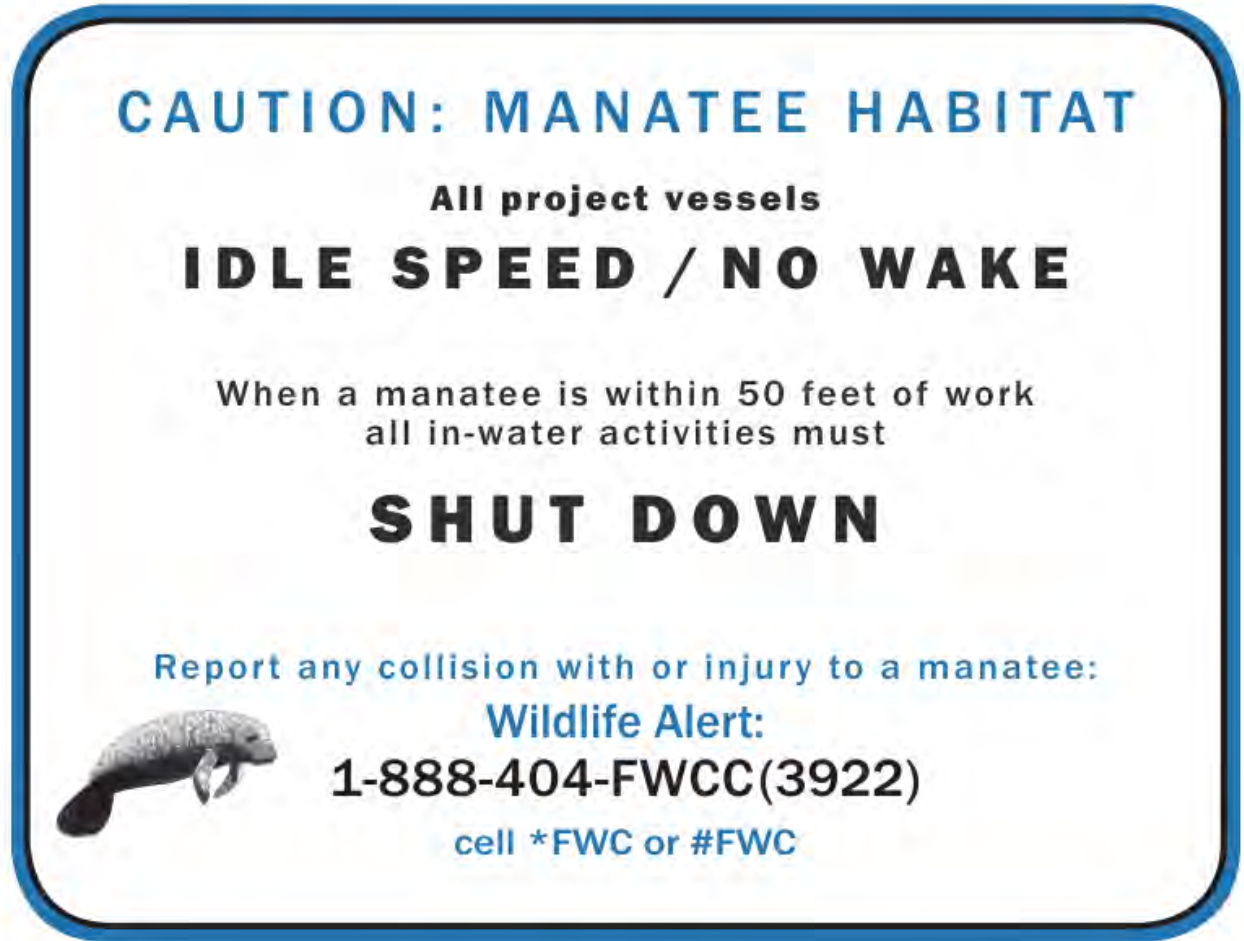
1. ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
2. ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE INSPECTED DAILY AND REPAIRS MADE AS NECESSARY TO ENSURE THE PROPER AND CONTINUED FUNCTION OF THE CONTROL(S).
3. ALL EROSION AND SEDIMENTATION CONTROL SHALL REMAIN IN PLACE UNTIL A PERMANENT VEGETATIVE COVER HAS BEEN ESTABLISHED.
4. UNDER NO CIRCUMSTANCES SHALL SEDIMENTS BE PERMITTED TO EXIT THE PROJECT LIMITS, INCLUDING TRACKING BY VEHICLES ONTO PAVED ROADWAYS. THE CONTRACTOR SHALL MAKE IMMEDIATE REPAIRS OR ENHANCEMENTS TO ANY EROSION CONTROL SYSTEM THAT ALLOWS THE RELEASE OF SEDIMENTS.

STANDARD MANATEE CONDITIONS FOR IN-WATER WORK - 2011:

- THE PERMITTEE SHALL COMPLY WITH THE FOLLOWING CONDITIONS INTENDED TO PROTECT MANATEES FROM DIRECT PROJECT EFFECTS:
- a. ALL PERSONNEL ASSOCIATED WITH THE PROJECT SHALL BE INSTRUCTED ABOUT THE PRESENCE OF MANATEES AND MANATEE SPEED ZONES, AND THE NEED TO AVOID COLLISIONS WITH AND INJURY TO MANATEES. THE PERMITTEE SHALL ADVISE ALL CONSTRUCTION PERSONNEL THAT THERE ARE CIVIL AND CRIMINAL PENALTIES FOR HARMING, HARASSING, OR KILLING MANATEES WHICH ARE PROTECTED UNDER THE MARINE MAMMAL PROTECTION ACT, THE ENDANGERED SPECIES ACT, AND THE FLORIDA MANATEE SANCTUARY ACT.
- b. ALL VESSELS ASSOCIATED WITH THE CONSTRUCTION PROJECT SHALL OPERATE AT "IDLE SPEED/NO WAKE" AT ALL TIMES WHILE IN THE IMMEDIATE AREA AND WHILE IN WATER WHERE THE DRAFT OF THE VESSEL PROVIDES LESS THAN A FOUR-FOOT CLEARANCE FROM THE BOTTOM. ALL VESSELS WILL FOLLOW ROUTES OF DEEP WATER WHENEVER POSSIBLE.
- c. SILTATION OR TURBIDITY BARRIERS SHALL BE MADE OF MATERIAL IN WHICH MANATEES CANNOT BECOME ENTANGLED, SHALL BE PROPERLY SECURED, AND SHALL BE REGULARLY MONITORED TO AVOID MANATEE ENTANGLEMENT OR ENTRAPMENT. BARRIERS MUST NOT IMPEDE MANATEE MOVEMENT.
- d. ALL ON-SITE PROJECT PERSONNEL ARE RESPONSIBLE FOR OBSERVING WATER-RELATED ACTIVITIES FOR THE PRESENCE OF MANATEE(S). ALL IN-WATER OPERATIONS, INCLUDING VESSELS, MUST BE SHUTDOWN IF A MANATEE(S) COMES WITHIN 50 FEET OF THE OPERATION. ACTIVITIES WILL NOT RESUME UNTIL THE MANATEE(S) HAS MOVED BEYOND THE 50-FOOT RADIUS OF THE PROJECT OPERATION, OR UNTIL 30 MINUTES ELAPSES IF THE MANATEE(S) HAS NOT REAPPEARED WITHIN 50 FEET OF THE OPERATION. ANIMALS MUST NOT BE HERDED AWAY OR HARASSED INTO LEAVING.
- e. ANY COLLISION WITH OR INJURY TO A MANATEE SHALL BE REPORTED IMMEDIATELY TO THE FWC HOTLINE AT 1-888-404-3922. COLLISION AND/OR INJURY SHOULD ALSO BE REPORTED TO THE U.S. FISH AND WILDLIFE SERVICE IN JACKSONVILLE (1-904-731-3336) FOR NORTH FLORIDA OR VERO BEACH (1-772-562-3909) FOR SOUTH FLORIDA, AND TO FWC AT ImperiledSpecies@myFWC.com
- f. TEMPORARY SIGNS CONCERNING MANATEES SHALL BE POSTED PRIOR TO AND DURING ALL IN-WATER PROJECT ACTIVITIES. ALL SIGNS ARE TO BE REMOVED BY THE PERMITTEE UPON COMPLETION OF THE PROJECT. TEMPORARY SIGNS THAT HAVE ALREADY BEEN APPROVED FOR THIS USE BY THE FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC) MUST BE USED (SEE myfwc.com/manatee). ONE SIGN WHICH READS CAUTION: BOATERS MUST BE POSTED. A SECOND SIGN MEASURING AT LEAST 8.5 BY 11 INCHES EXPLAINING THE REQUIREMENTS FOR "IDLE SPEED/NO WAKE" AND THE SHUT DOWN OF IN-WATER OPERATIONS MUST BE POSTED IN A LOCATION PROMINENTLY VISIBLE TO ALL PERSONNEL ENGAGED IN WATER-RELATED ACTIVITIES. QUESTIONS CONCERNING THESE SIGNS CAN BE SENT TO THE EMAIL ADDRESS LISTED ABOVE.
- g. FLOATING TURBIDITY BARRIER WITH FINE MESH SHALL BE USED IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS, SECTION 104.

ENVIRONMENTAL NOTES:

1. THE CONTRACTOR SHALL INSTRUCT ALL PERSONNEL OF THE POTENTIAL PRESENCE OF PROTECTED MAMMALS, REPTILES AND BIRDS. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL AND STATE REQUIREMENTS AND CHAPTER 7-1.4 OF THE FDOT STANDARD SPECIFICATIONS FOR PROTECTED SPECIES.
2. SPECIFIC REQUIREMENTS FOR UNEXPECTED INTERACTION WITH CERTAIN PROTECTED SPECIES DURING WORK ACTIVITIES MAY BE FOUND AT:
<http://www.dot.state.fl.us/programmanagement/Implemented/URLinSpecs/files/endangeredwildlifeguidelines.pdf>
3. THE CONTRACTOR SHALL LEGALLY DISPOSE OF SPOILS OFF SITE AND NOT IN THE INTRACOASTAL WATERWAY.
- EROSION CONTROL NOTES:
1. THE CONTRACTOR IS RESPONSIBLE FOR THE CONTROL OF SEDIMENTATION RUNOFF RESULTING FROM STORM EVENTS DURING THE CONSTRUCTION PHASE.
2. THE CONTRACTOR SHALL SUBMIT AN EROSION CONTROL PLAN IN ACCORDANCE WITH SECTION 104 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. THE PLAN SHALL INCLUDE, BUT NOT BE LIMITED TO, MEASURES TO CONTROL TURBIDITY, CONTAINMENT AND DISPOSAL OF CONSTRUCTION DEBRIS, AND A SPILL CONTROL REPORTING PLAN.
3. EROSION CONTROL FACILITIES, SUCH AS HAY BALES, SILT SCREENS, FLOATING TURBIDITY BARRIERS, OR OTHER APPROVED METHODS AS REQUIRED, SHALL BE INSTALLED EARLY DURING THE CONSTRUCTION PERIOD SO AS TO PREVENT THE TRANSPORT OF SEDIMENT INTO THE INTRACOASTAL WATERWAY.



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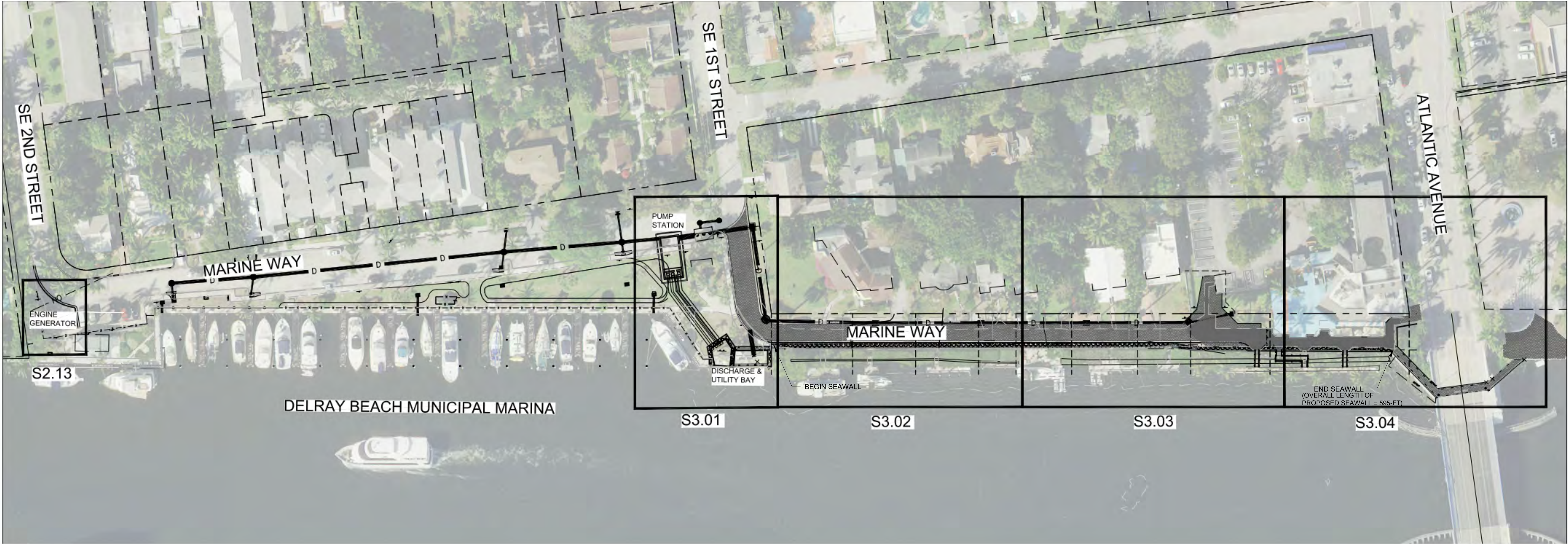
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Fax No. 561.687.1110
Registry No. 33574

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THE CITY OF DELRAY BEACH
HISTORIC MARINE WAY SEAWALL, ROADWAY,
AND DRAINAGE IMPROVEMENT

GENERAL NOTES

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| PROJECT NO. 17-047 |
| SHEET NO. 50.02 |
| FILE ID. 17-047 |



1 PROPOSED PLAN-OVERALL
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CITY of DELRAY BEACH
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THE CITY OF DELRAY BEACH
HISTORIC MARINE WAY SEAWALL, ROADWAY,
AND DRAINAGE IMPROVEMENT
OVERALL PLAN

PROJECT NO.
17-047

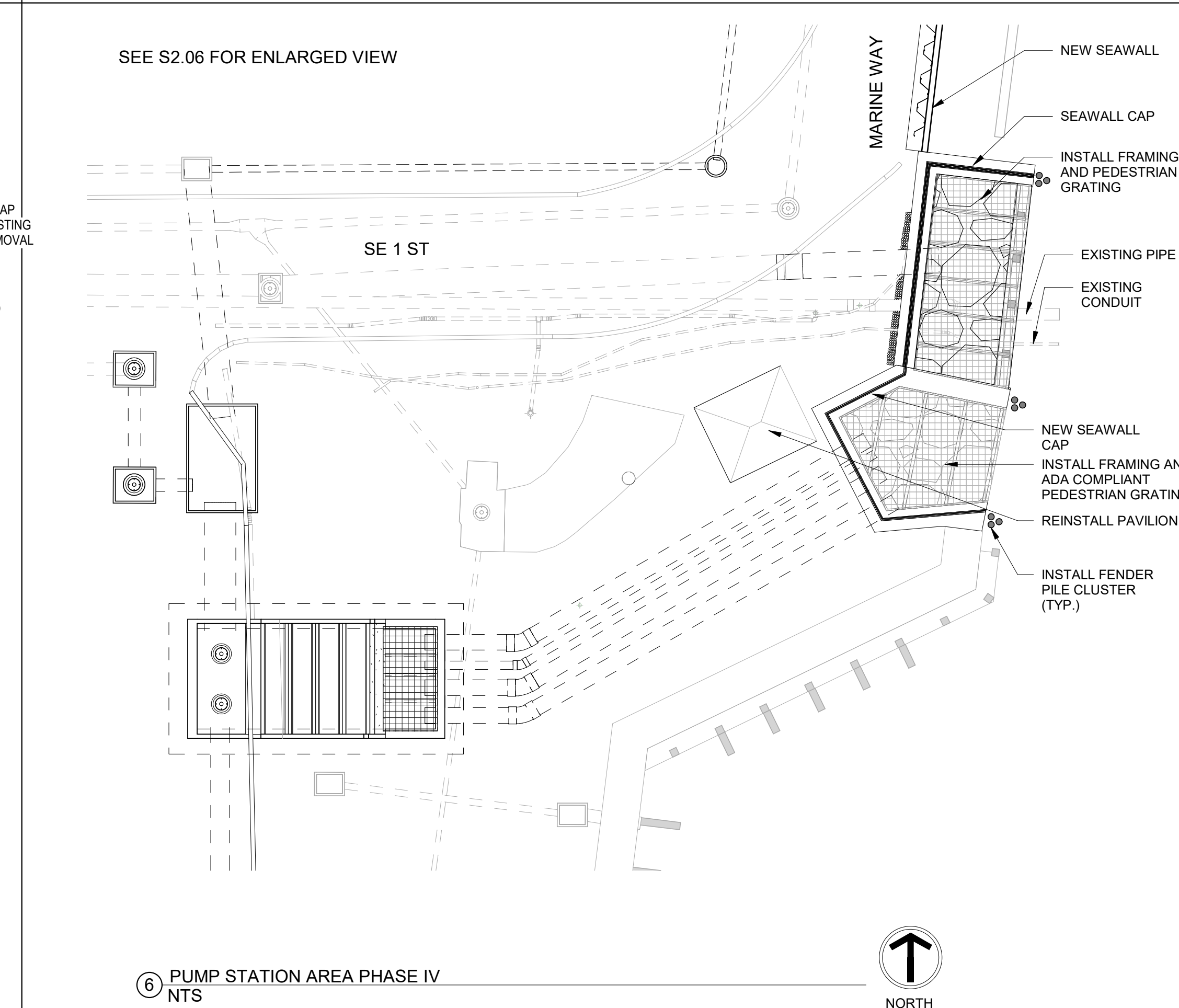
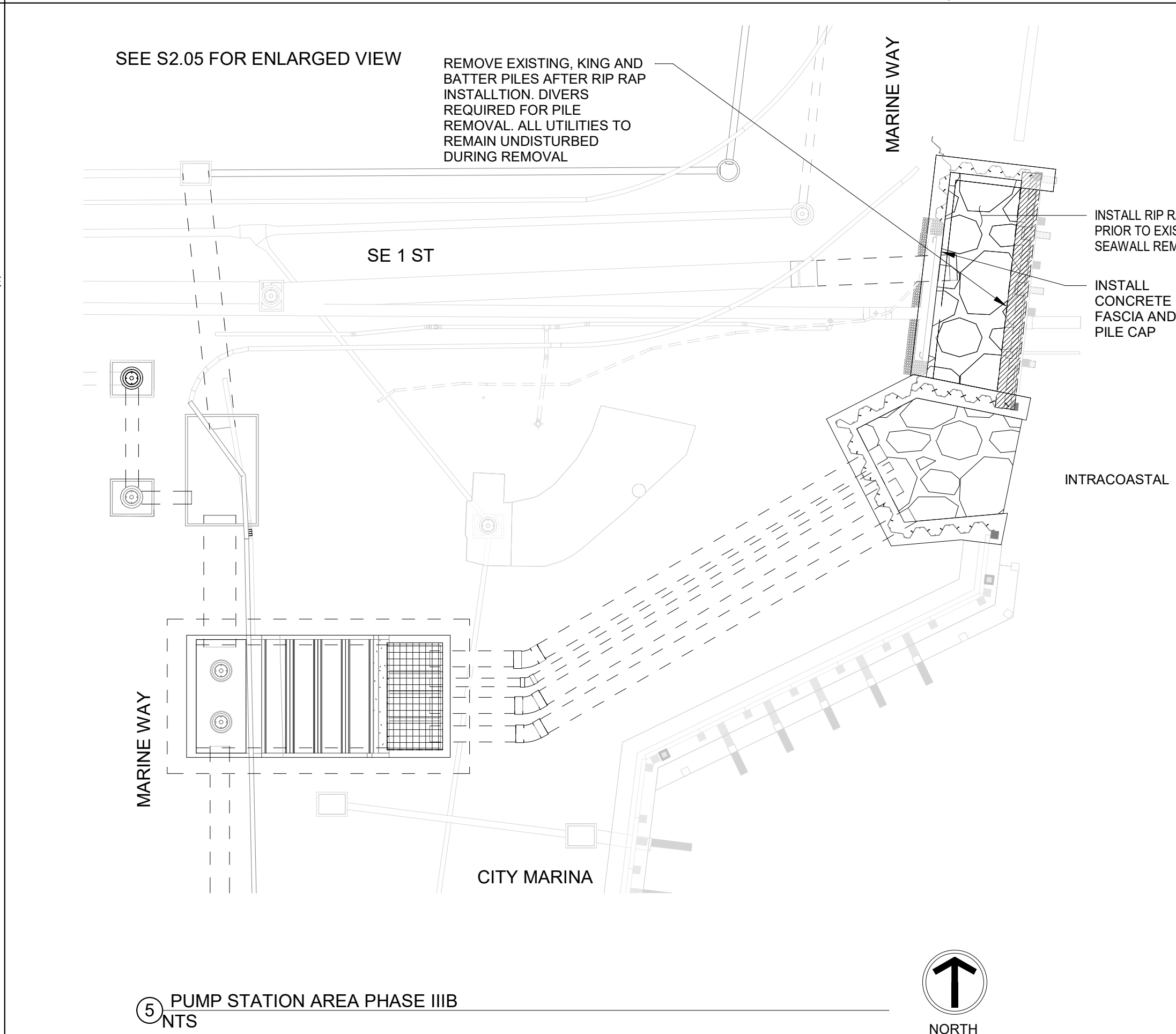
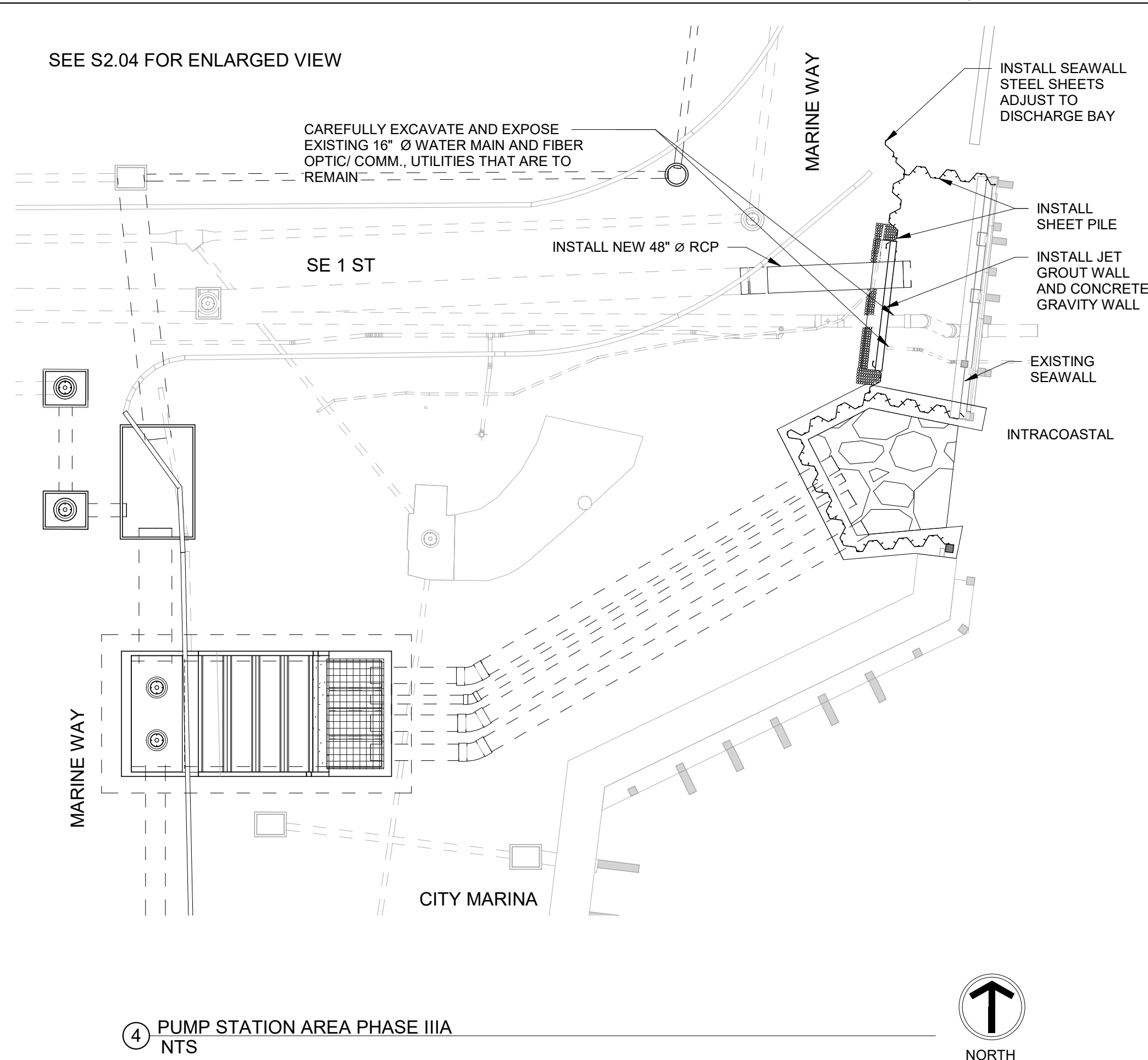
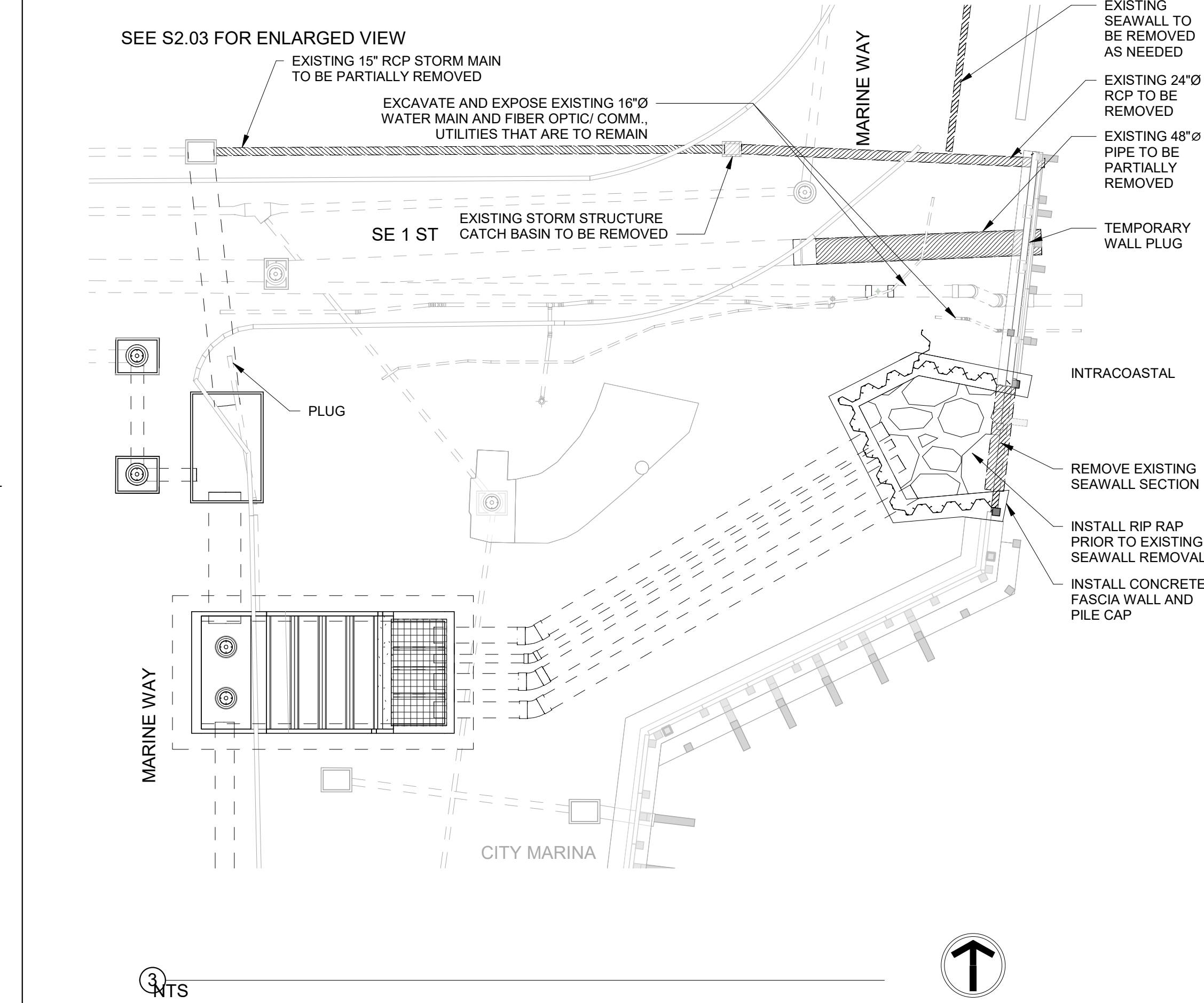
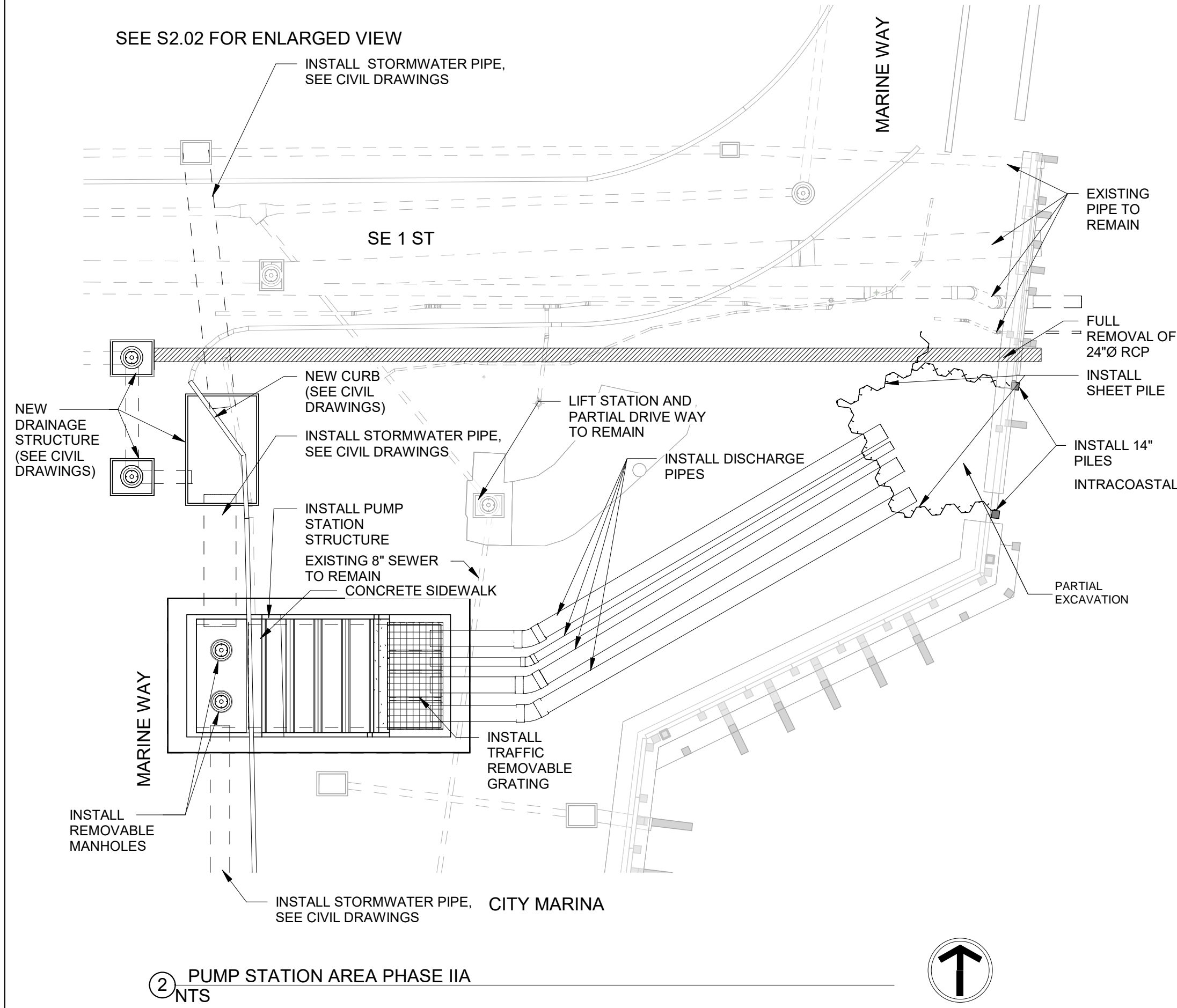
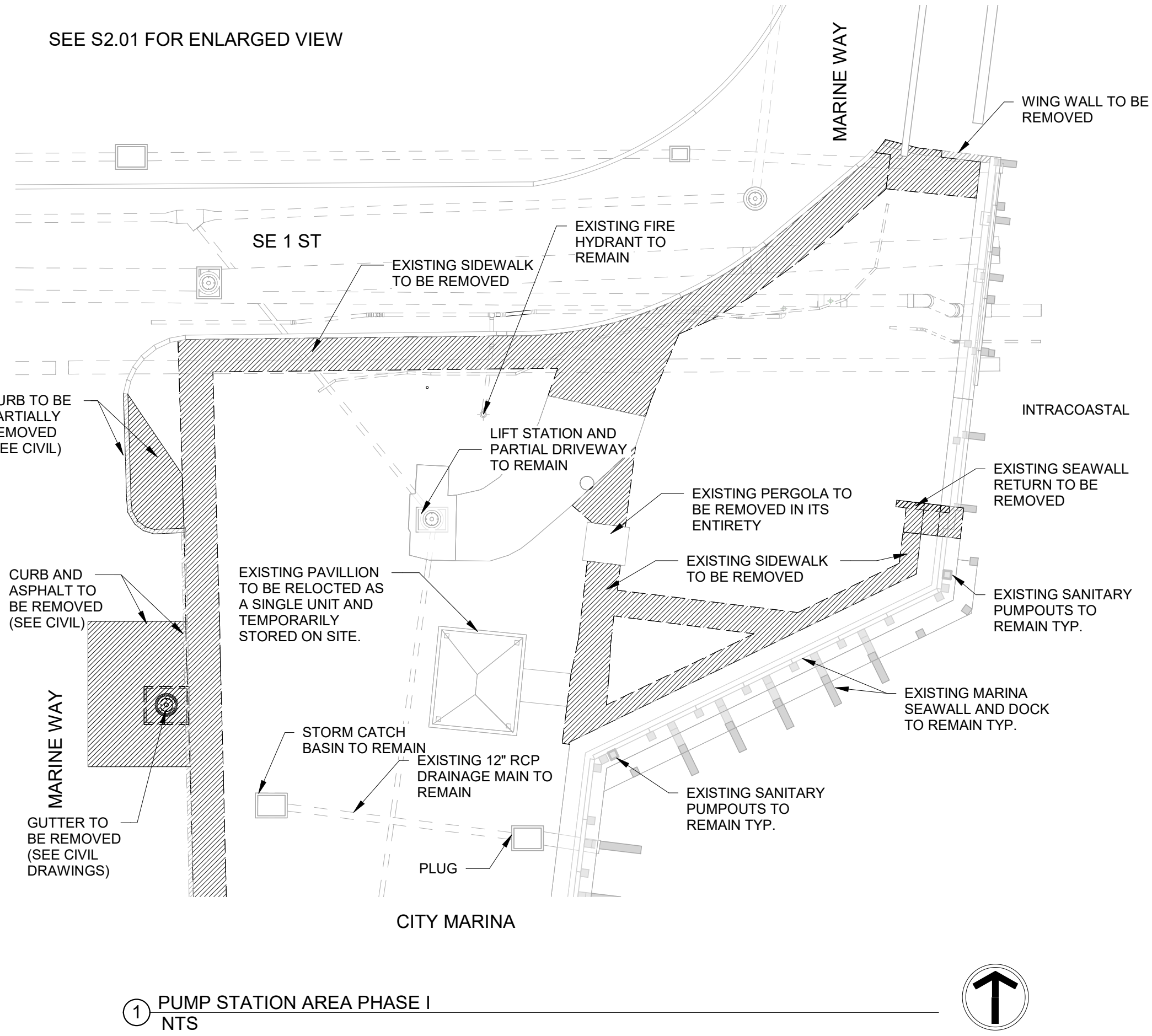
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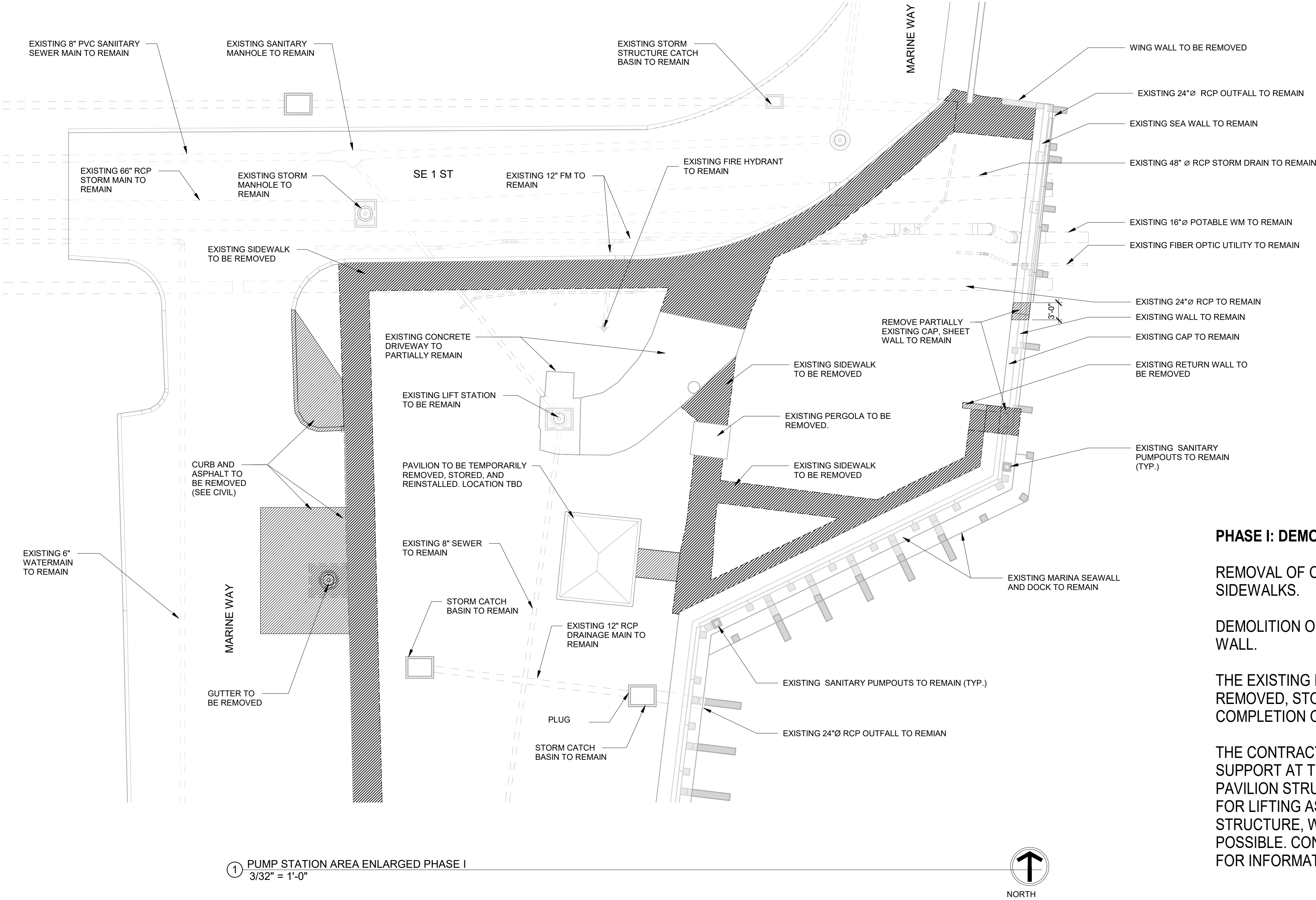
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| THE CITY OF DELRAY BEACH HISTORIC MARINE WAY SEAWALL, ROADWAY, AND DRAINAGE IMPROVEMENT | PROJECT NO. 17-047 |
| PHASING PLANS OVERVIEW | SHEET NO. S2.00 |
| | FILE ID. 17-047 |



PHASE I: DEMOLITION OF EXISTING ABOVE GROUND FEATURES

REMOVAL OF CURB, GUTTER, PAVEMENT, THE PERGOLA, AND SIDEWALKS.

DEMOLITION OF THE EXISTING SEAWALL RETURN WALL.

THE EXISTING PAVILION SHALL BE CAREFULLY TEMPORARILY REMOVED, STORAGE AND REINSTALLATION FOLLOWING THE COMPLETION OF PHASE IV.

THE CONTRACTOR SHALL PROVIDE STRUCTURAL SUPPORT AT THE BASE OF THE PAVILION STRUCTURE, RIG THE PAVILION STRUCTURE FOR LIFTING AS A SINGLE UNIT AND TEMPORARILY STORING THE STRUCTURE, WITHIN THE PARK AREA TO THE SOUTH AS FAR AS POSSIBLE. CONTRACTOR TO SUBMIT RELOCATION/RIGGING PLAN FOR INFORMATIONAL PURPOSES ONLY



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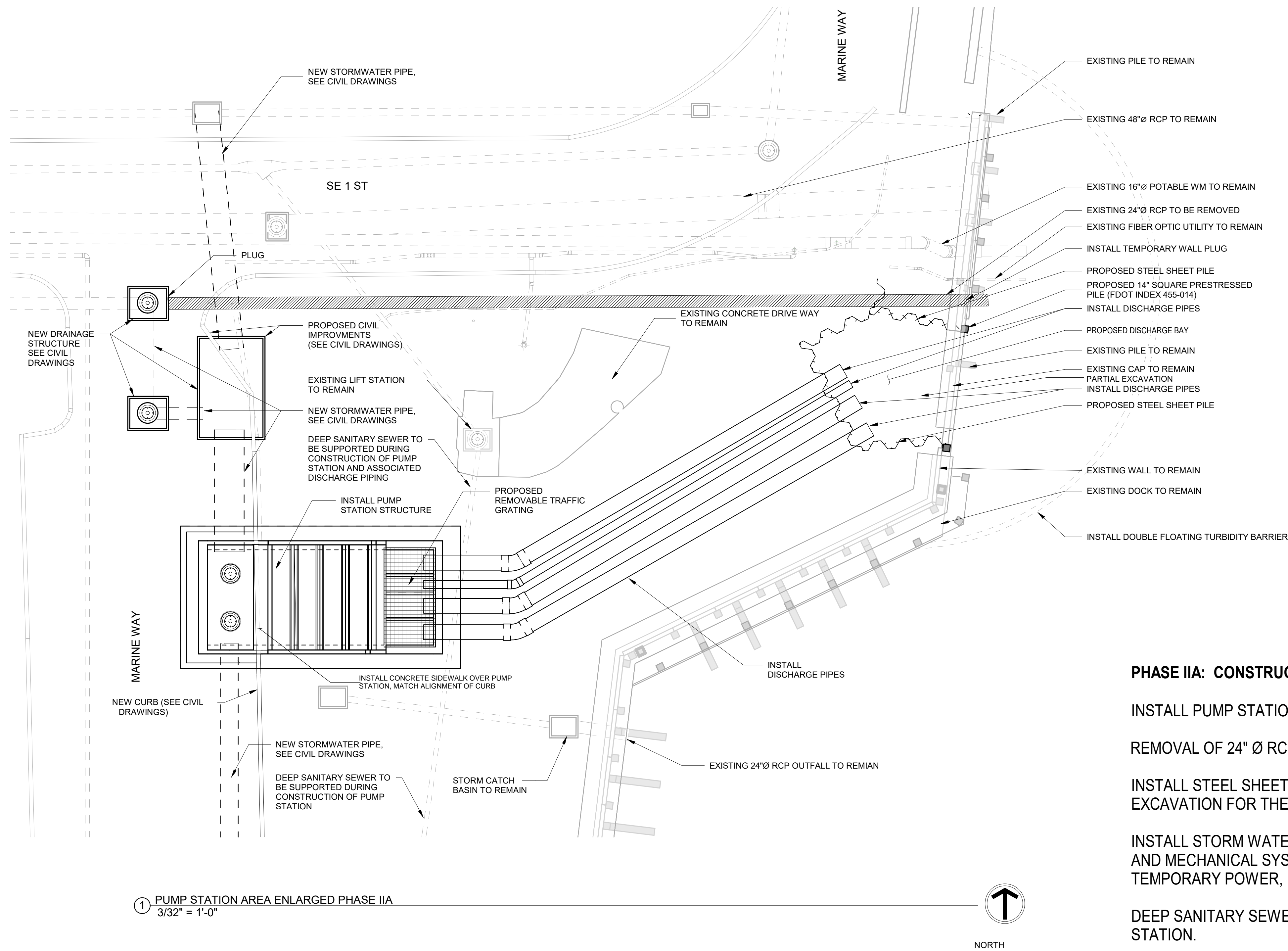
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| THE CITY OF DELRAY BEACH HISTORIC MARINE WAY SEAWALL, ROADWAY, AND DAMAGE IMPROVEMENT ENLARGED PHASE I PUMP STATION PLAN | PROJECT NO. 17-047 |
| | SHEET NO. S2.01 |
| | FILE ID. 17-047 |



PHASE IIA: CONSTRUCT PUMP STATION, GENERATOR AND DISCHARGE BAY

- INSTALL PUMP STATION BAFFLE BOX STRUCTURE
- REMOVAL OF 24" Ø RCP, INSTALL TEMPORARY WALL PLUG WHERE PIPE REMOVED
- INSTALL STEEL SHEET PILING, 14" FDOT CONCRETE PILE (2) LOCATIONS, PARTIAL EXCAVATION FOR THE DISCHARGE BAY TO FACILITATE DISCHARGE PIPE INSTALLS
- INSTALL STORM WATER PIPES, INCLUDING THE PUMP DISCHARGE PIPES, PUMPS AND MECHANICAL SYSTEMS, ELECTRICAL SYSTEMS, PERMANENT OR TEMPORARY POWER, ENGINE GENERATOR
- DEEP SANITARY SEWER TO BE SUPPORTED DURING CONSTRUCTION OF PUMP STATION.
- INSTALL PUMP STATION BEAMS, CLOSURE POURS, AND GRATING



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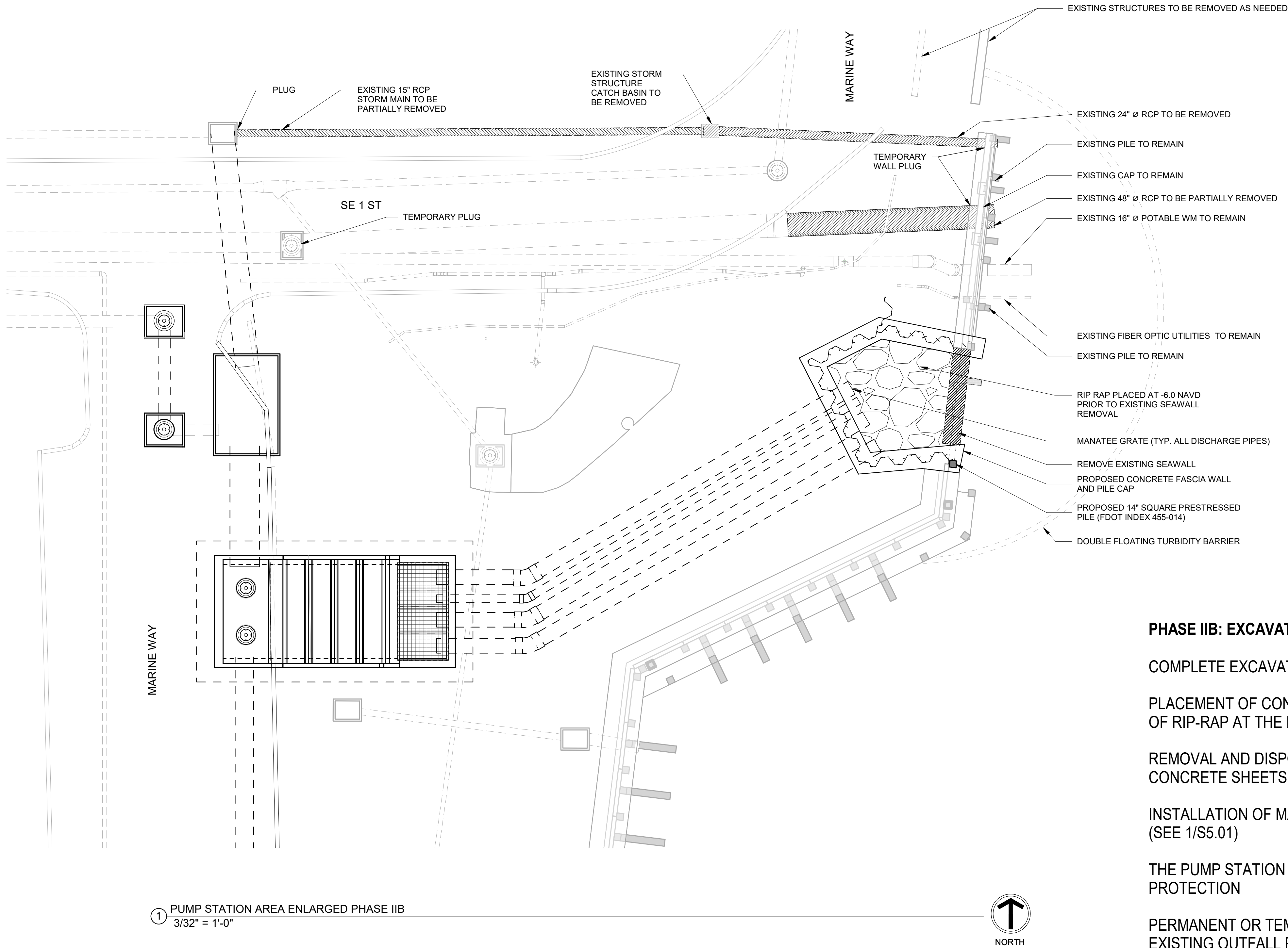
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Phone No. 561.687.2220
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| THE CITY OF DELRAY BEACH HISTORIC MARINE WAY SEAWALL, ROADWAY, AND DAMAGE IMPROVEMENT ENLARGED PHASE IIA PUMP STATION PLAN | PROJECT NO. 17-047 |
| | SHEET NO. S2.02 |
| | FILE ID. 17-047 |
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PHASE IIB: EXCAVATE DISCHARGE BAY AND REMOVE EXISTING SEAWALL

COMPLETE EXCAVATION OF THE DISCHARGE BAY TO ELEVATION -6.0 NAVD

PLACEMENT OF CONCRETE FASCIA WALL CONCRETE CAP, AND, PLACEMENT OF RIP-RAP AT THE DISCHARGE BAY.

REMOVAL AND DISPOSAL OF THE EXISTING SEAWALL CONCRETE CAP, CONCRETE SHEETS AND CONCRETE PILES.

INSTALLATION OF MANATEE GRATE ON DISCHARGE BAY PIPE OPENINGS (SEE 1/S5.01)

THE PUMP STATION SHALL BE UTILIZED FOR STORMWATER WATER PROTECTION

PERMANENT OR TEMPORARY PUMPS SHALL BE PROVIDED AND THE EXISTING OUTFALL PIPES (1) 24", AND (1) 48" SHALL BE PLUGGED AT THE EXISTING CATCH BASIN/SEAWALL AND REMOVED AS DETAILED.



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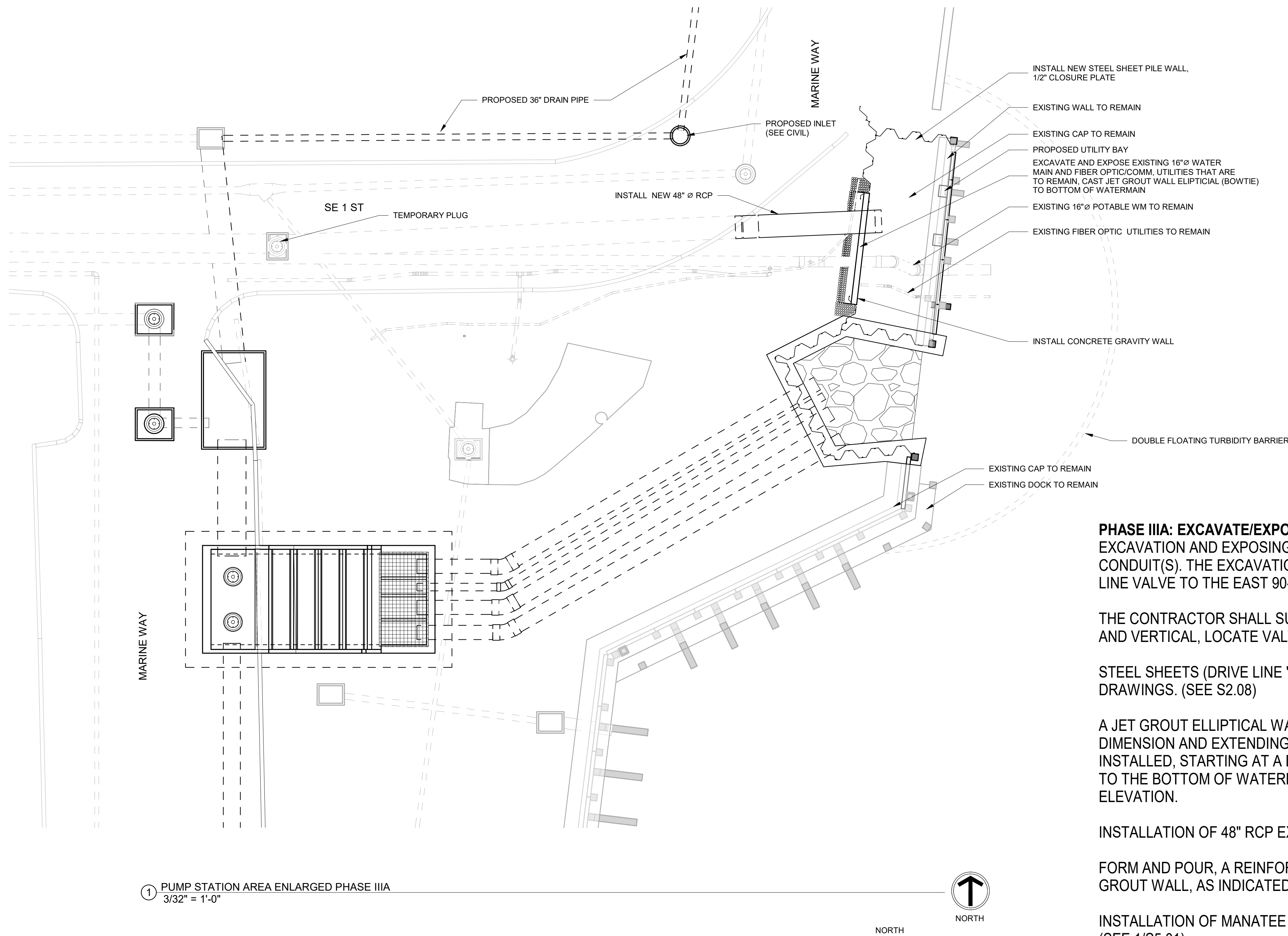
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| THE CITY OF DELRAY BEACH HISTORIC MARINE WAY SEAWALL, ROADWAY, AND DAMAGE IMPROVEMENT | | PROJECT NO. 17-047 |
| ENLARGED PHASE IIB PUMP STATION PLAN | | SHEET NO. S2.03 |
| | | FILE ID. 17-047 |



PHASE IIIA: EXCAVATE/EXPOSE WATERMAIN AND FIBER OPTIC UTILITY
EXCAVATION AND EXPOSING THE EXISTING 16" Ø WATERMAIN AND FIBER OPTIC CONDUIT(S). THE EXCAVATION SHALL EXTEND FROM 10-FOOT WEST OF THE IN-LINE VALVE TO THE EAST 90-DEGREE VERTICAL FITTING.

THE CONTRACTOR SHALL SURVEY THE PIPE AND CONDUITS BOTH HORIZONTAL AND VERTICAL, LOCATE VALVES, FITTINGS, AND OTHER APPURTENANCES.

STEEL SHEETS (DRIVE LINE "E") SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS. (SEE S2.08)

A JET GROUT ELLIPTICAL WALL APPROXIMATELY 4'-0" WIDE IN THE EAST WEST DIMENSION AND EXTENDING AS INDICATED ON THE DRAWINGS SHALL BE INSTALLED, STARTING AT A DEPTH OF (-) 32.0 NAVD TO THE BOTTOM OF WATERMAIN PIPE AND FIBER OPTIC CONDUIT ELEVATION.

INSTALLATION OF 48" RCP EXTENSION

FORM AND POUR, A REINFORCED CONCRETE GRAVITY WALL ABOVE THE JET GROUT WALL, AS INDICATED ON THE DRAWINGS.

INSTALLATION OF MANATEE GRATE ON UTILITY BAY PIPE OPENINGS (SEE 1/S5.01)

1 PUMP STATION AREA ENLARGED PHASE IIIA
3/32" = 1'-0"



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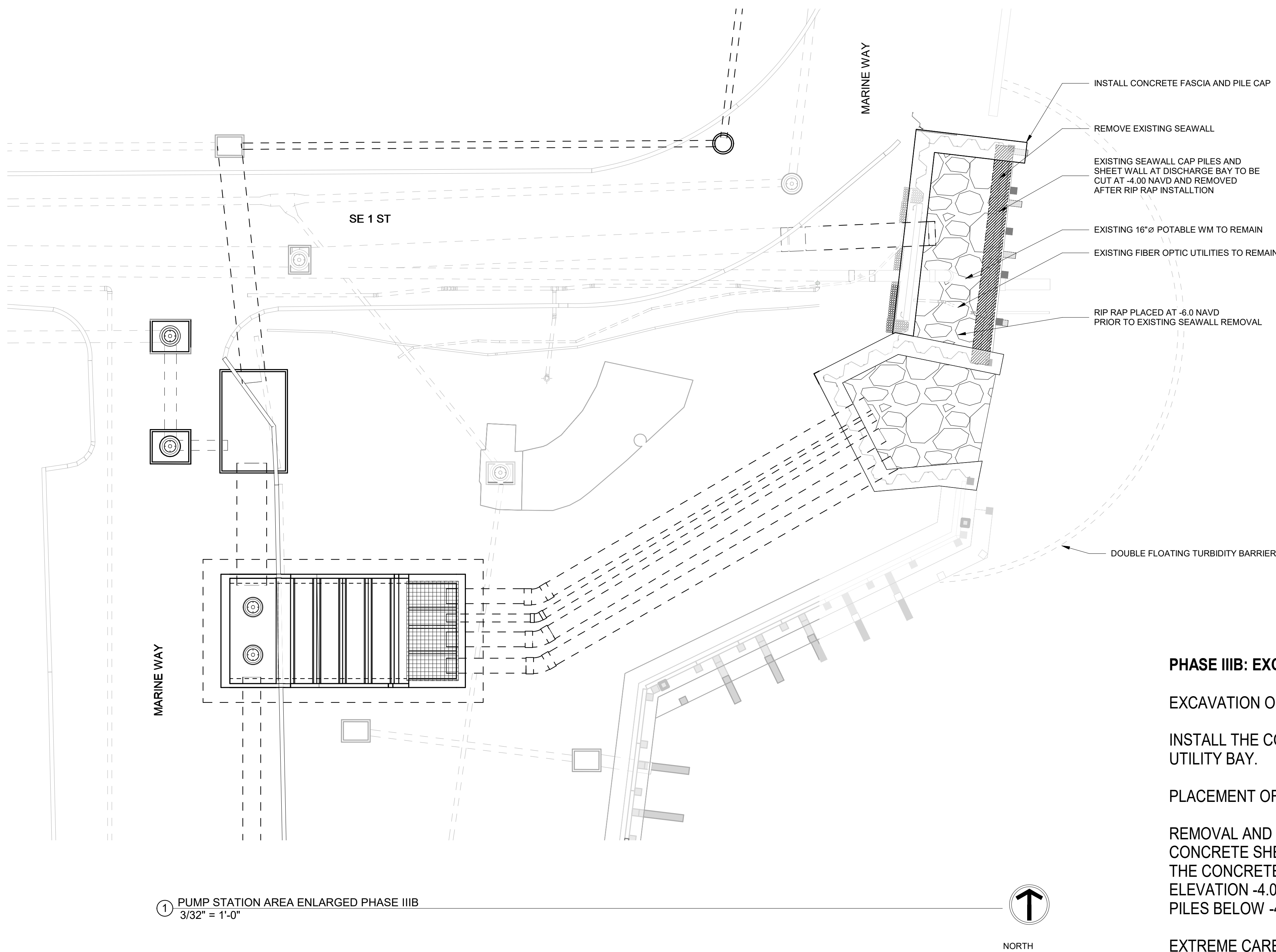
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| THE CITY OF DELRAY BEACH HISTORIC MARINE WAY SEAWALL, ROADWAY, AND DAMAGE IMPROVEMENT | | PROJECT NO. 17-047 |
| ENLARGED PHASE IIIA PUMP STATION PLAN | | SHEET NO. S2.04 |
| | | FILE ID. 17-047 |



PHASE IIIB: EXCAVATE UTILITY BAY AND REMOVE EXISTING SEAWALL

EXCAVATION OF THE UTILITY BAY TO ELEVATION -4.00 NAVD

INSTALL THE CONCRETE FASCIA WALL AND CONCRETE PILE CAP WITHIN THE UTILITY BAY.

PLACEMENT OF RIPRAP IN THE UTILITY BAY

REMOVAL AND DISPOSAL OF THE EXISTING SEAWALL CONCRETE CAP, CONCRETE SHEET PILES AND CONCRETE PILES. THE CONCRETE SHEET PILES AND PILES SHALL BE SAWCUT UNDERWATER AT ELEVATION -4.00 NAVD AND THE REMAINING CONCRETE SHEET PILES AND PILES BELOW -4.00 NAVD ABANDONED IN PLACE.

EXTREME CARE SHALL BE TAKEN WHILE WORKING IN THE VICINITY OF THE WATERMAIN AND FIBER OPTIC UTILITIES.



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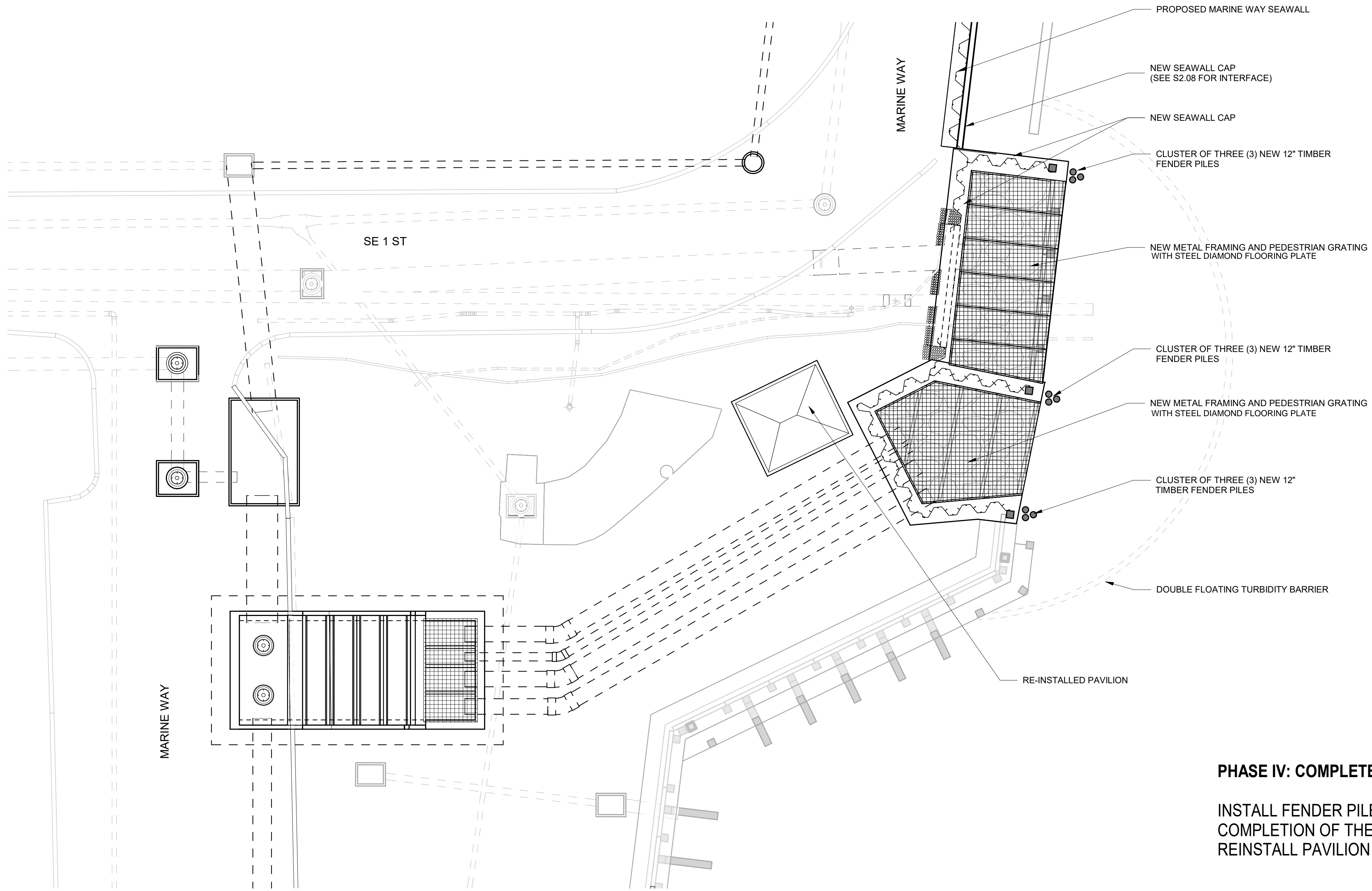
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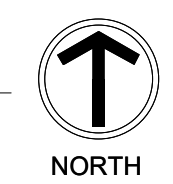
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| THE CITY OF DELRAY BEACH HISTORIC MARINE WAY SEAWALL, ROADWAY, AND DRAINAGE IMPROVEMENT | PROJECT NO. 17-047 |
| ENLARGED PHASE IIIB PUMP STATION PLAN | SHEET NO. S2.05 |
| | FILE ID. 17-047 |



① PUMP STATION AREA ENLARGED PHASE IV
3/32" = 1'-0"



PHASE IV: COMPLETE ABOVE GRADE IMPROVEMENTS

INSTALL FENDER PILE CLUSTERS
COMPLETION OF THE CONCRETE CAP, FRAMING MEMBERS AND GRATING.
REINSTALL PAVILION



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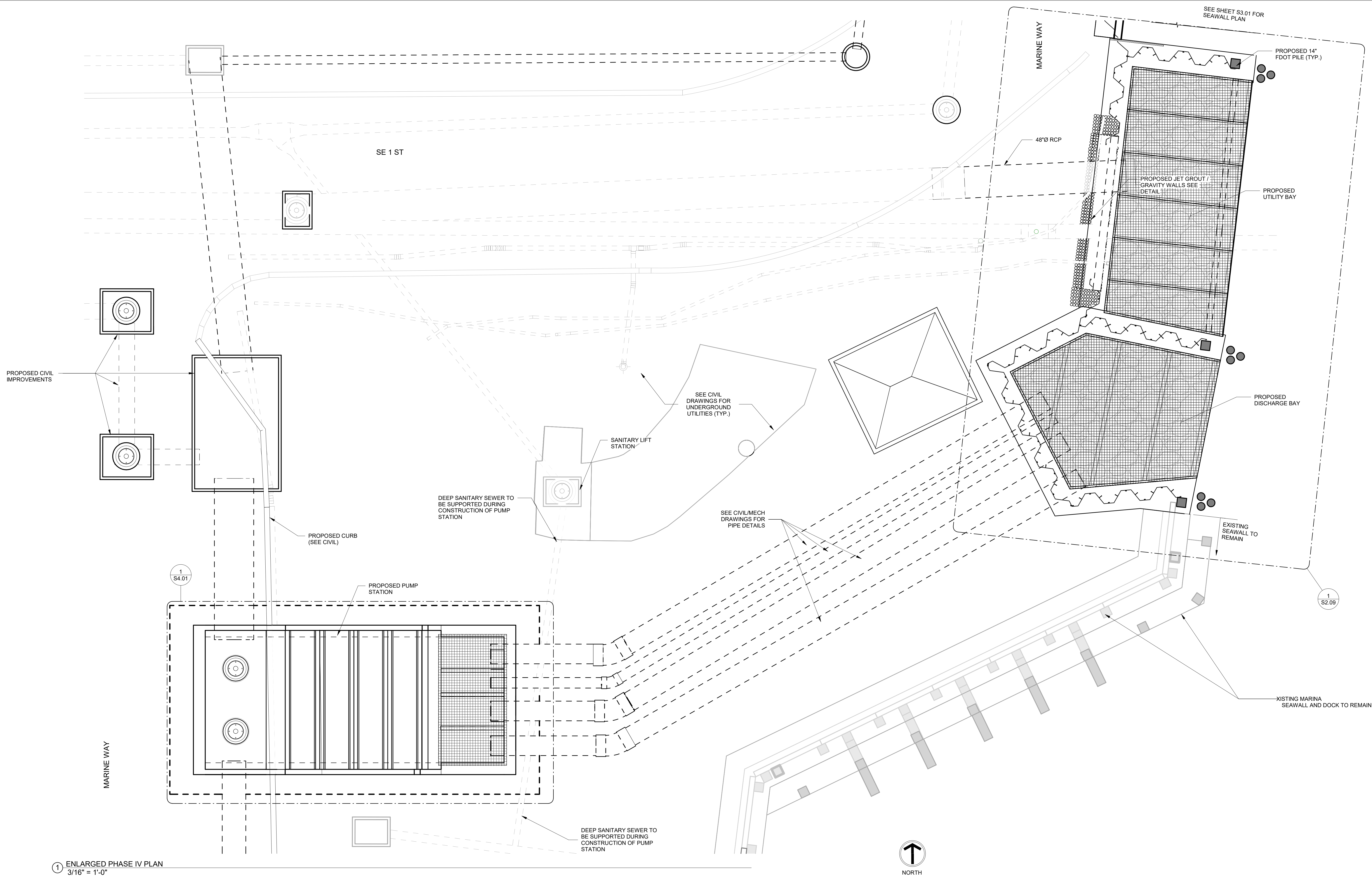
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THE CITY OF DELRAY BEACH
HISTORIC MARINE WAY SEAWALL, ROADWAY,
AND DAMAGE IMPROVEMENT
ENLARGED PHASE IV PUMP STATION
PLAN

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| PROJECT NO. | 17-047 |
| SHEET NO. | S2.06 |
| FILE ID. | 17-047 |

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1 ENLARGED PHASE IV PLAN
3/16" = 1'-0"



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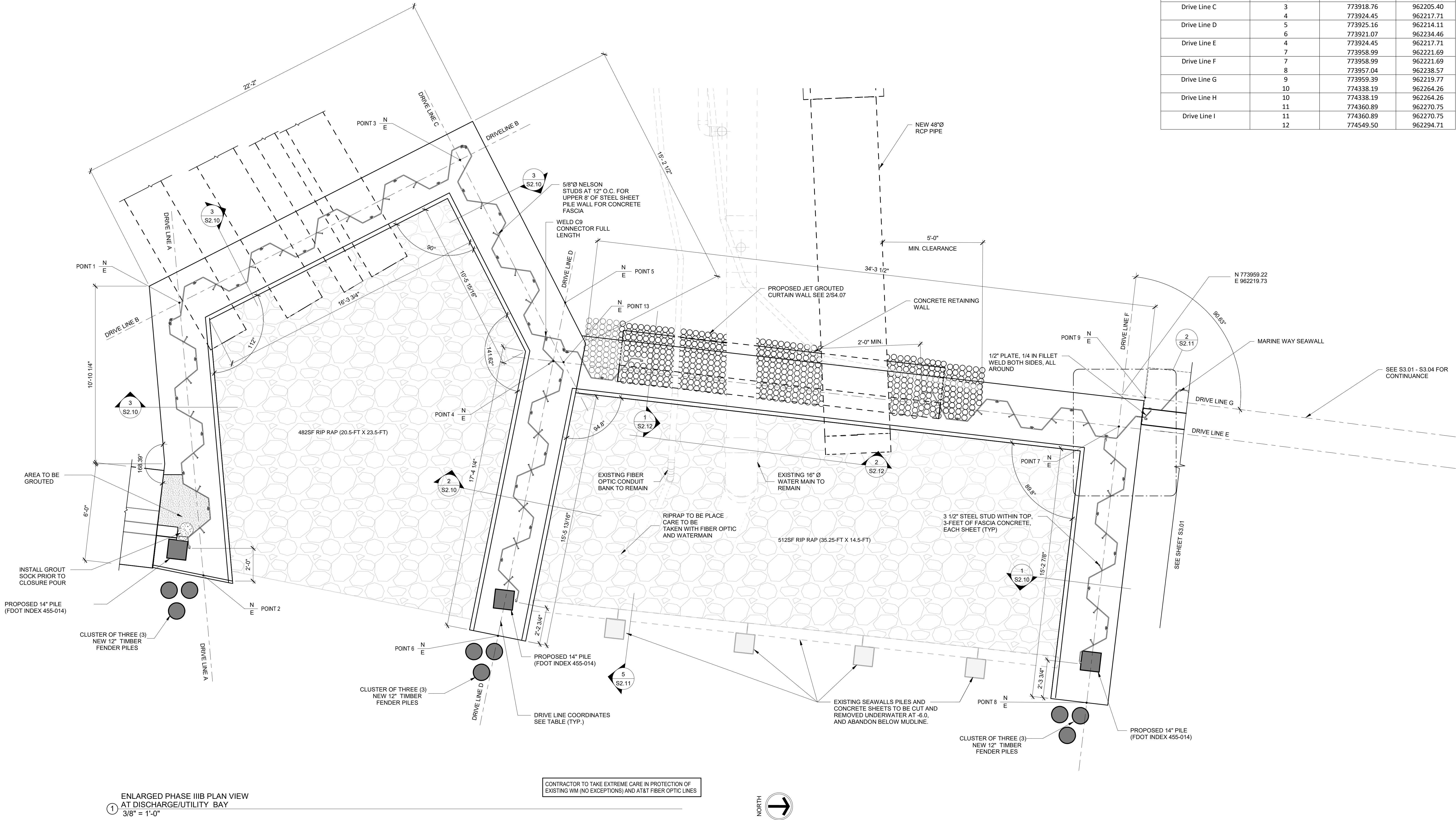
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THE CITY OF DELRAY BEACH
HISTORIC MARINE WAY SEAWALL, ROADWAY,
AND DRAINAGE IMPROVEMENT
DISCHARGE BAY AND PUMP STATION
AREA PLAN VIEW @ -4.0 NAVD

PROJECT NO.
17-047
SHEET NO.
S2.07
FILE ID. 17-047

| Sheet Pile Drive Line | Point | Northing | Easting |
|-----------------------|-------|-----------|-----------|
| Drive Line A | 1 | 773901.61 | 962214.12 |
| | 2 | 773903.06 | 962230.82 |
| Drive Line B | 1 | 773901.61 | 962214.12 |
| | 13 | 773918.76 | 962205.40 |
| Drive Line C | 3 | 773918.76 | 962205.40 |
| | 4 | 773924.45 | 962217.71 |
| Drive Line D | 5 | 773925.16 | 962214.11 |
| | 6 | 773921.07 | 962234.46 |
| Drive Line E | 4 | 773924.45 | 962217.71 |
| | 7 | 773958.99 | 962221.69 |
| Drive Line F | 7 | 773958.99 | 962221.69 |
| | 8 | 773957.04 | 962238.57 |
| Drive Line G | 9 | 773959.39 | 962219.77 |
| | 10 | 774338.19 | 962264.26 |
| Drive Line H | 10 | 774338.19 | 962264.26 |
| | 11 | 774360.89 | 962270.75 |
| Drive Line I | 11 | 774360.89 | 962270.75 |
| | 12 | 774549.50 | 962294.71 |



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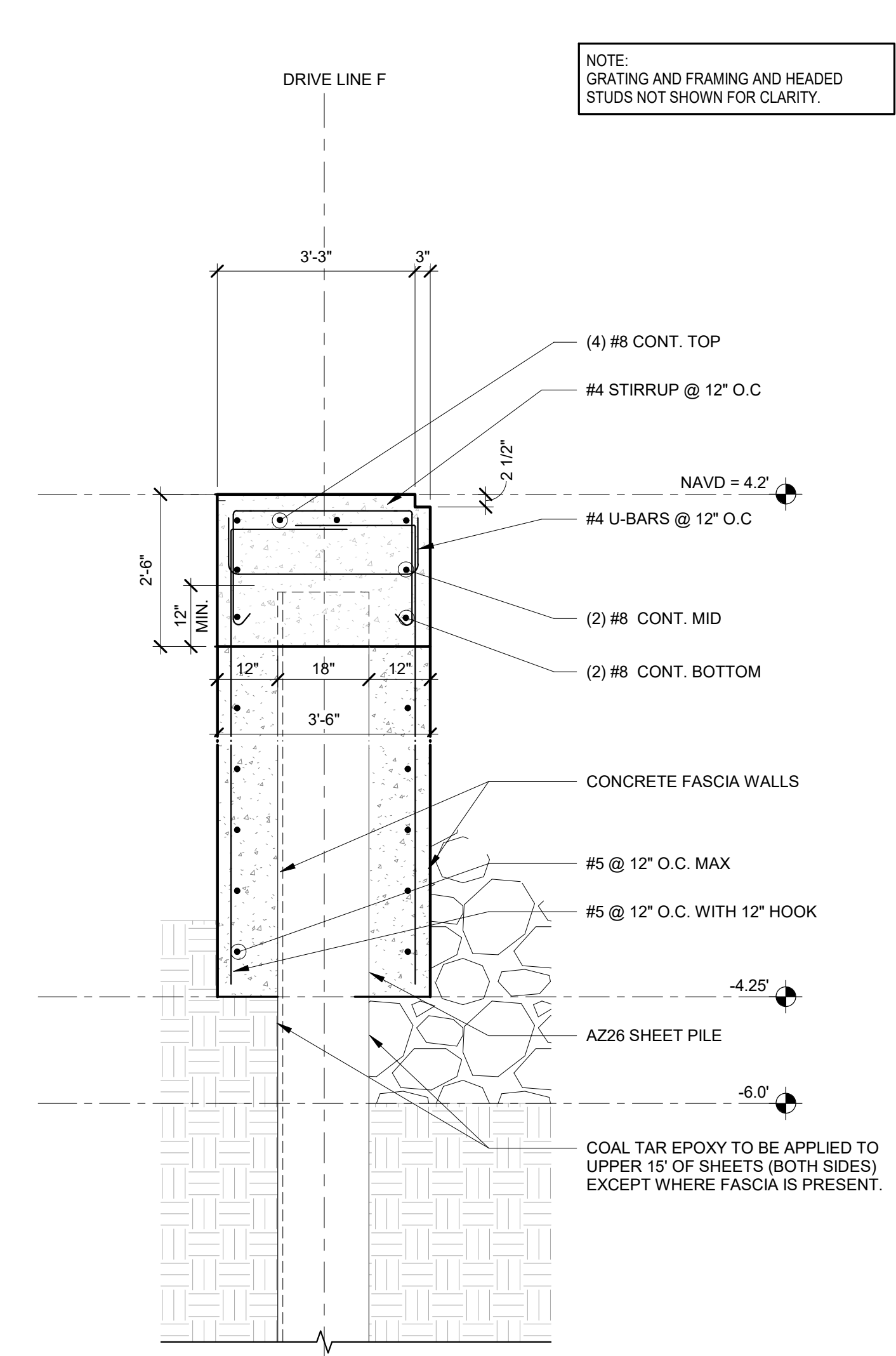
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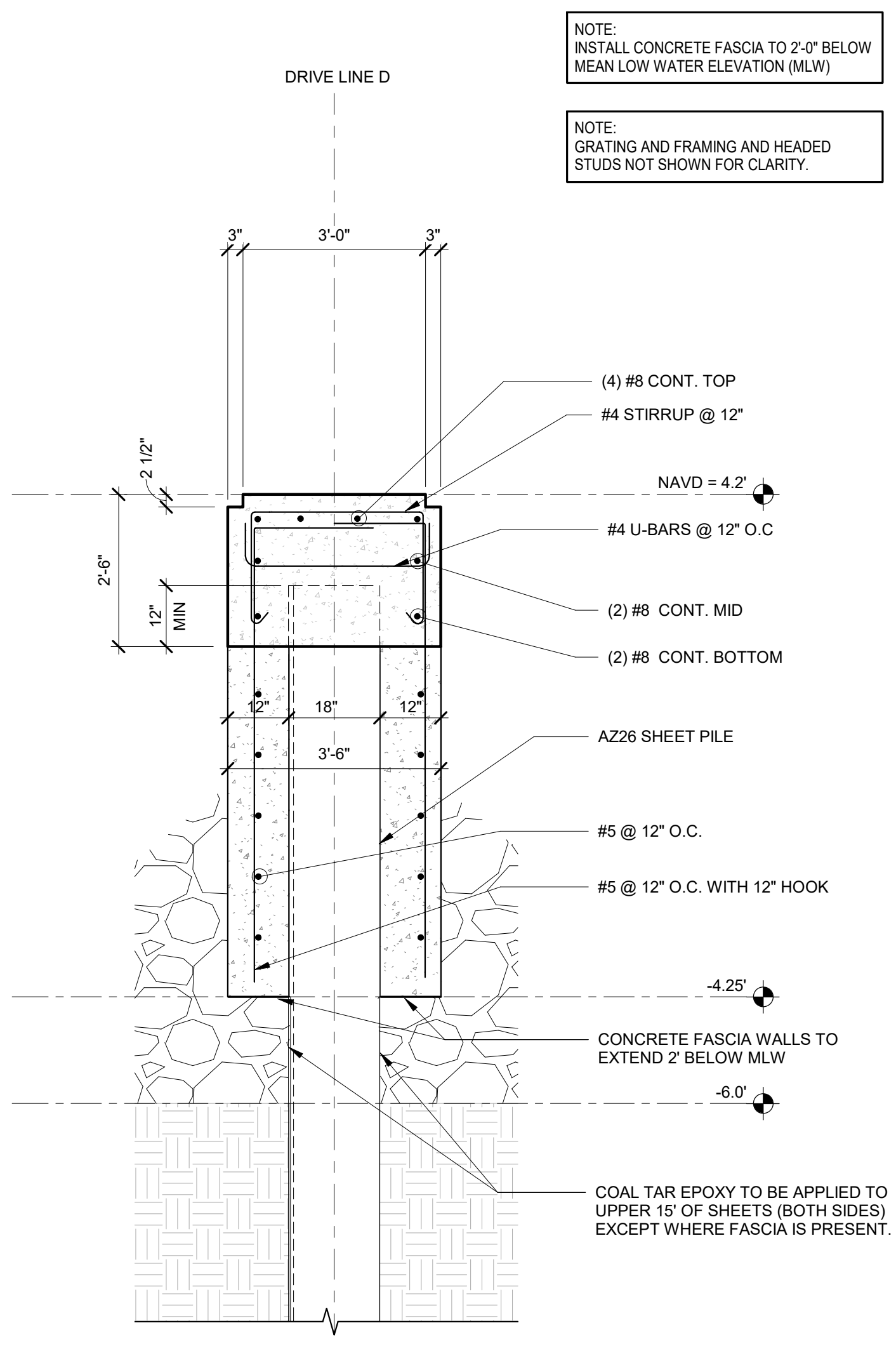
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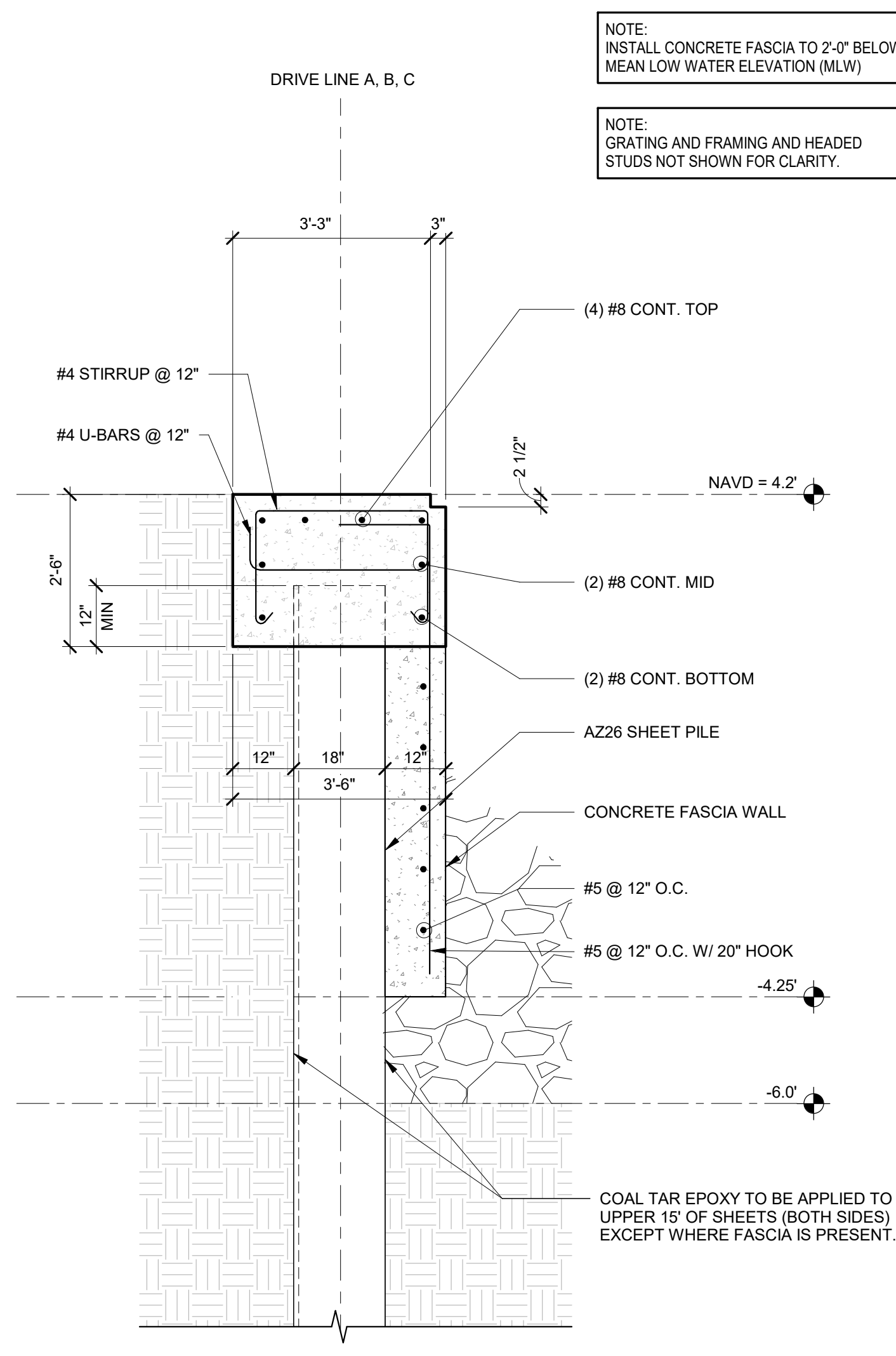
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| THE CITY OF DELRAY BEACH HISTORIC MARINE WAY SEAWALL, ROADWAY, AND DRAINAGE IMPROVEMENT | | PROJECT NO. 17-047 |
| PHASE IIIB DISCHARGE BAY/ UTILITY PLAN | | SHEET NO. S2.08 |
| | | FILE ID. 17-047 |



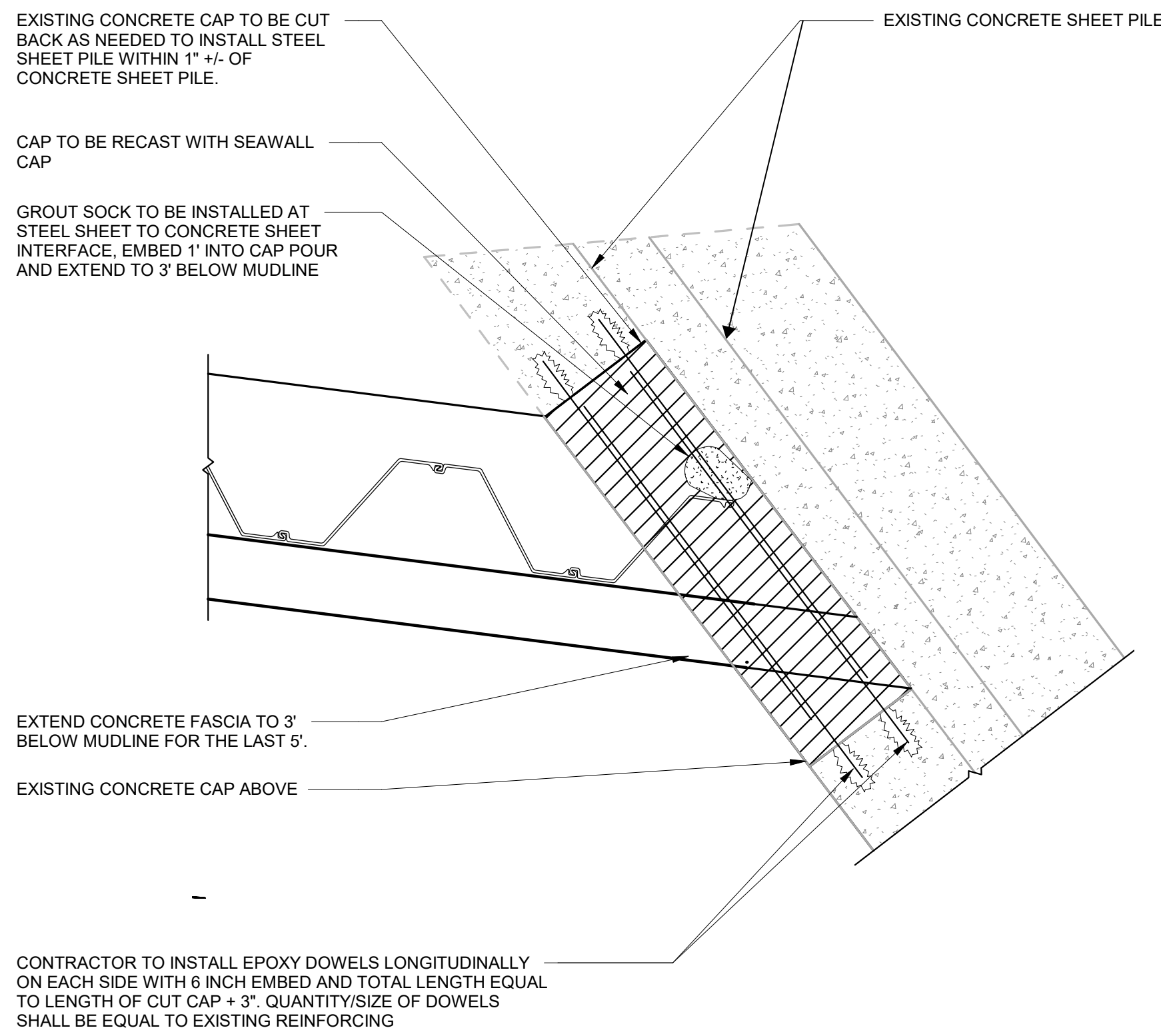
① SEAWALL SECTION
1/2" = 1'-0"



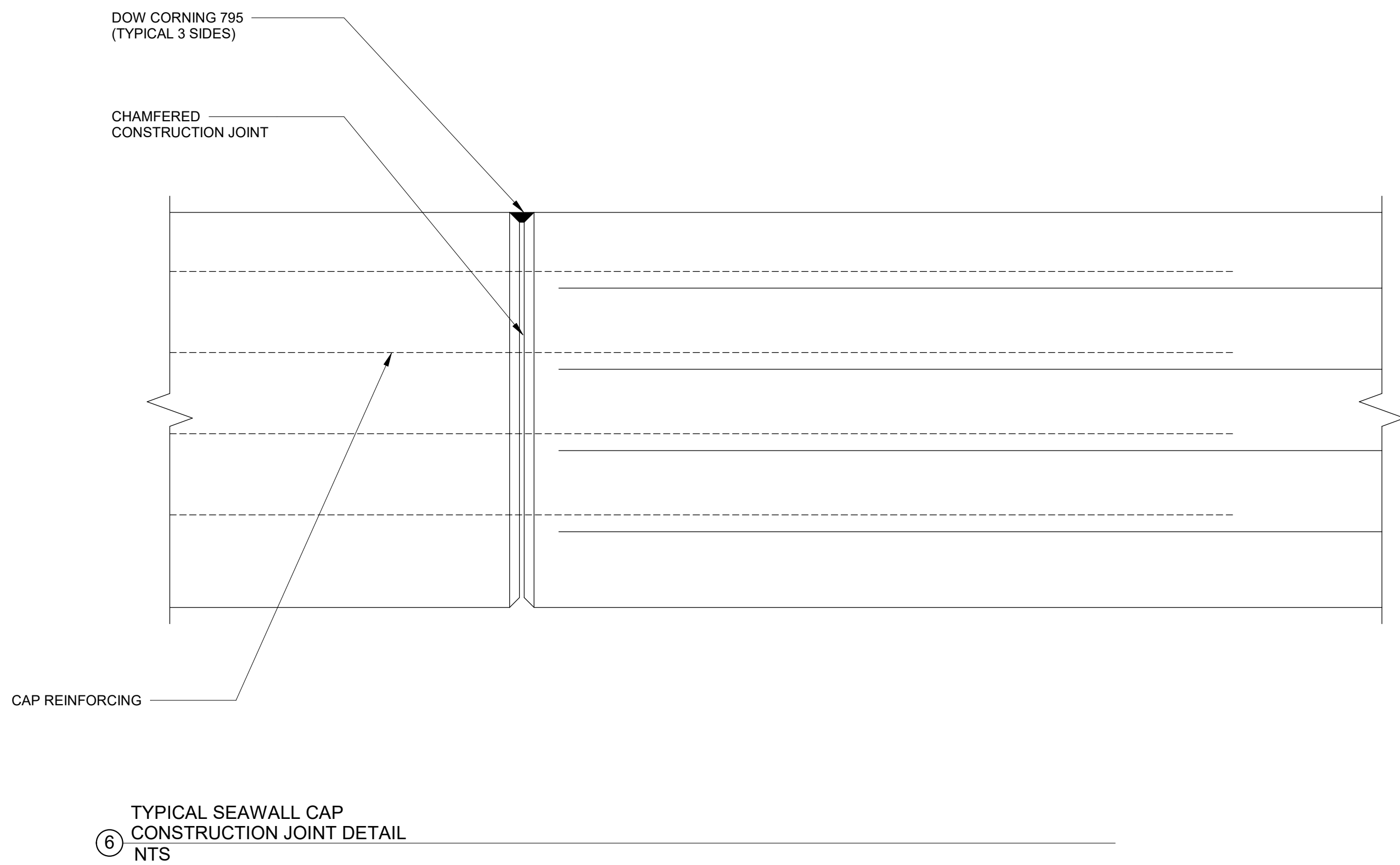
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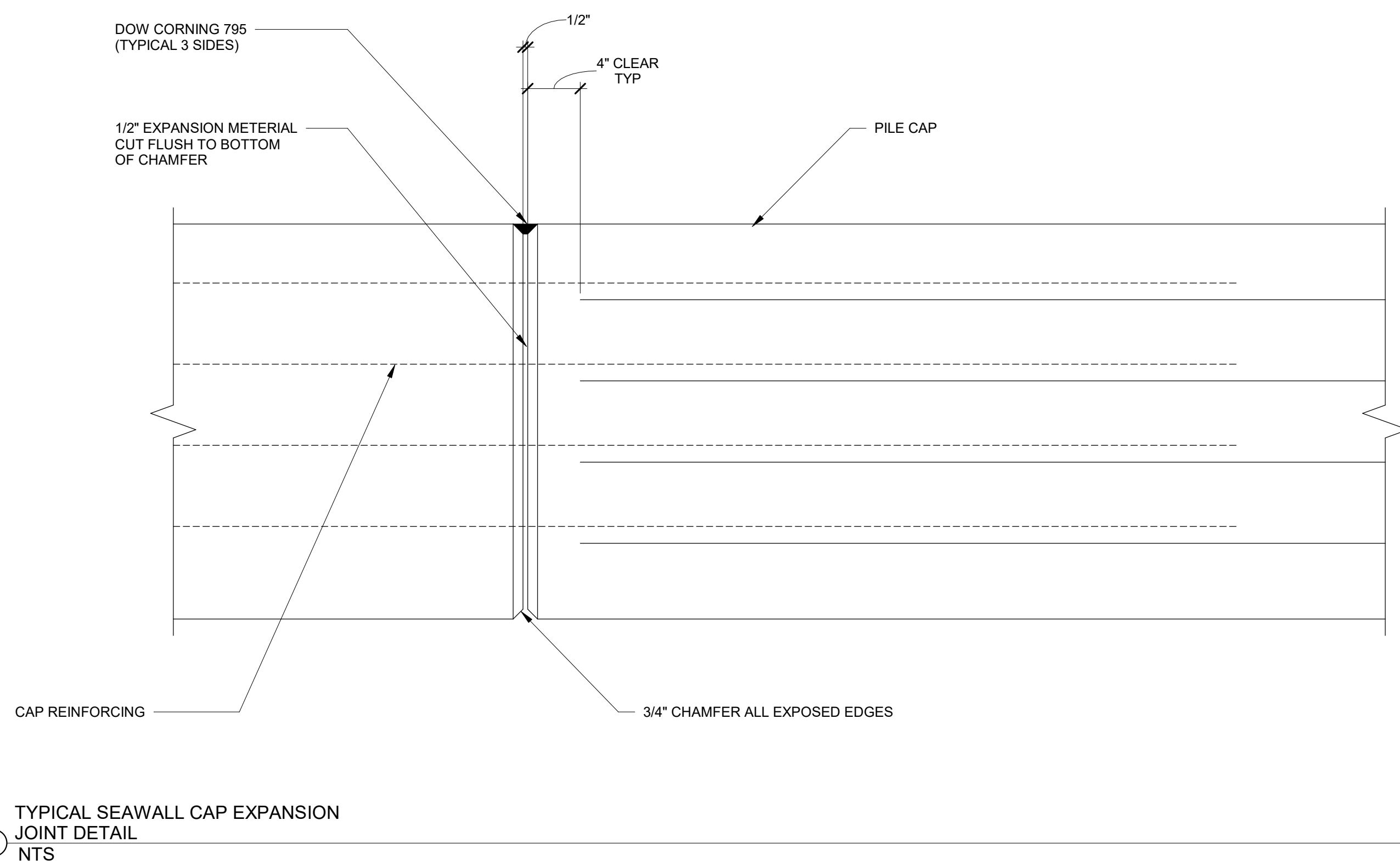
③ SECTION
1/2" = 1'-0"



⑤ ENLARGED PLAN
1/2" = 1'-0"



⑥ TYPICAL SEAWALL CAP
CONSTRUCTION JOINT DETAIL
NTS



⑦ TYPICAL SEAWALL CAP EXPANSION
JOINT DETAIL
NTS



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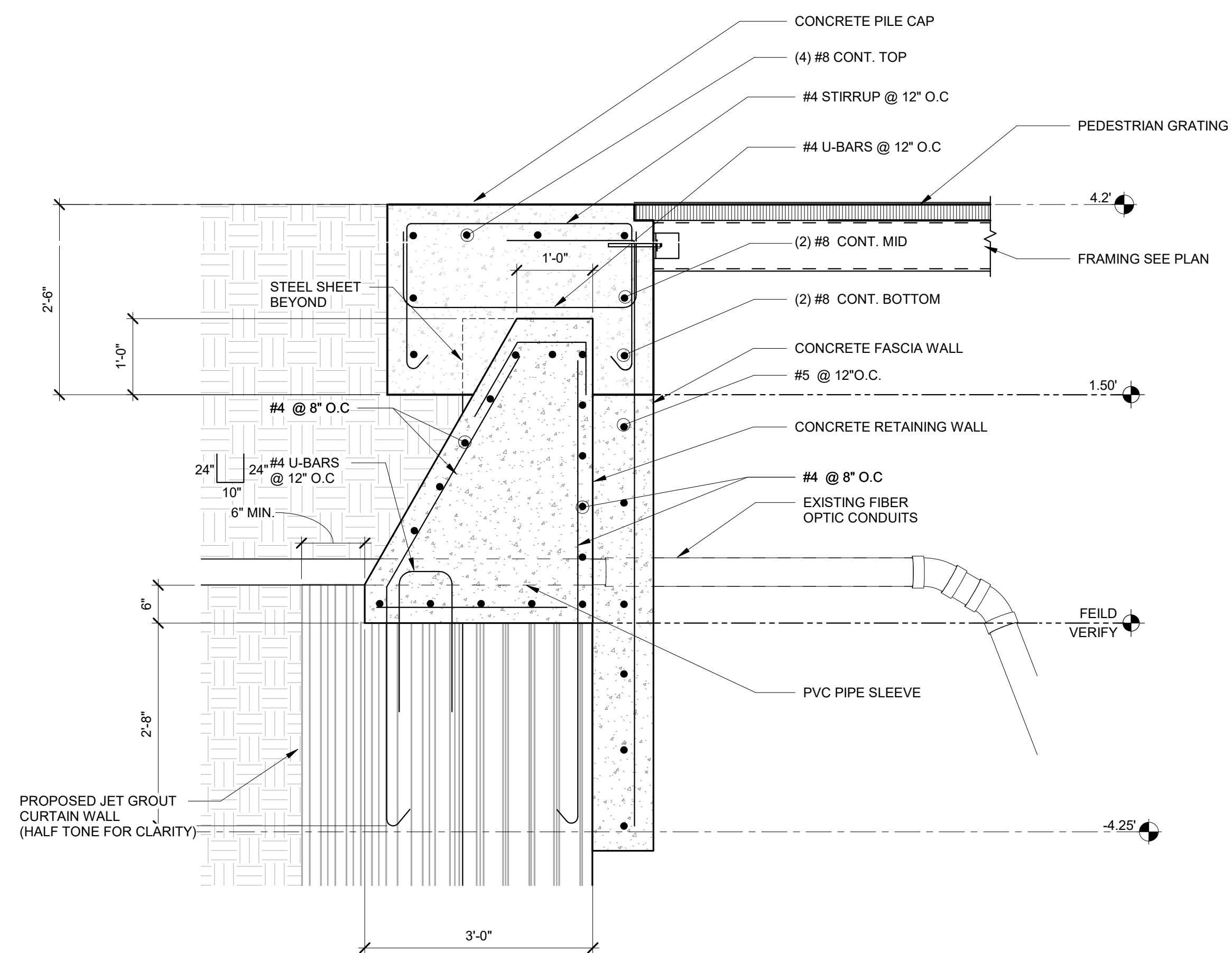
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| THE CITY OF DELRAY BEACH HISTORIC MARINE WAY SEAWALL, ROADWAY, AND DAMAGE IMPROVEMENT | | PROJECT NO. 17-047 |
| SEAWALL & DECKING DETAILS | | SHEET NO. S2.10 |
| | | FILE ID. 17-047 |



① SEAWALL AND GRATING FRAMING
3/4" = 1'-0"

① SEAWALL AND GRATING FRAMING
3/4" = 1'-0"



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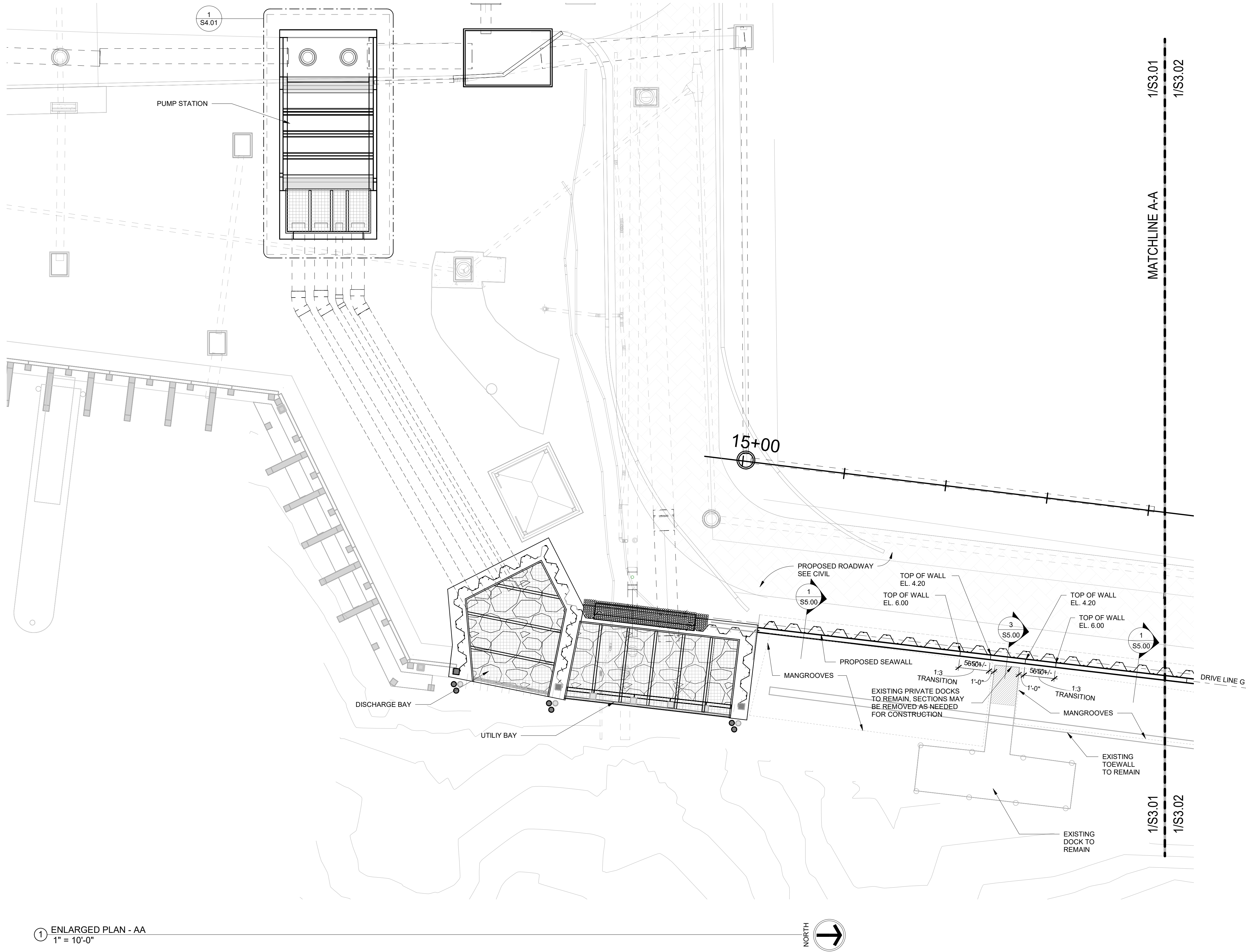
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UTILITY BAY DETAILS

SS2.12

FILE ID. 17-047

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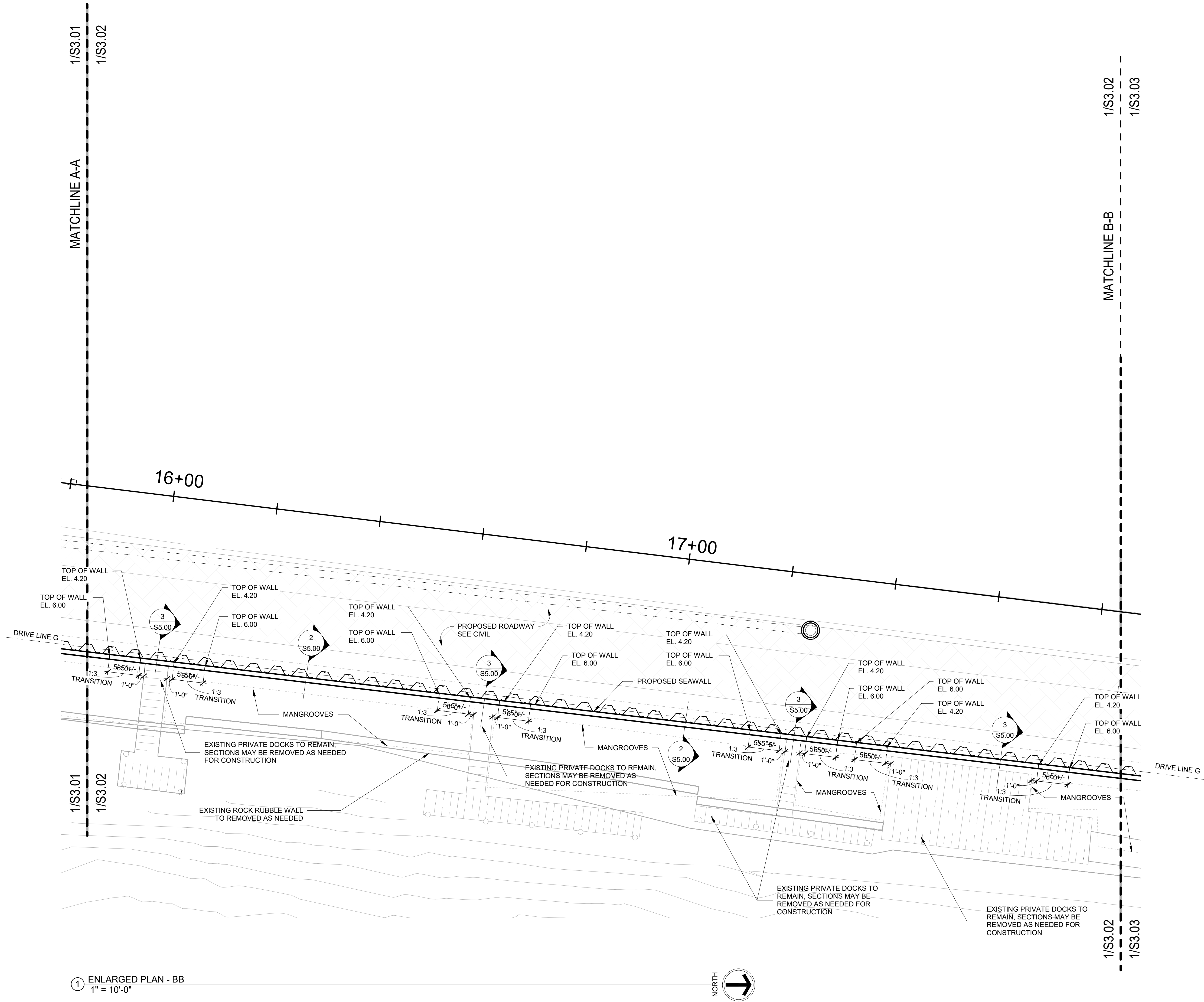
THE CITY OF DELRAY BEACH
HISTORIC MARINE WAY SEAWALL, ROADWAY,
AND DAMAGE IMPROVEMENT
ENLARGED MARINE WAY SEAWALL

PROJECT NO.
17-047

SHEET NO.

33.01

FILE ID. 17-047



① ENLARGED PLAN - BB
1" = 10'-0"



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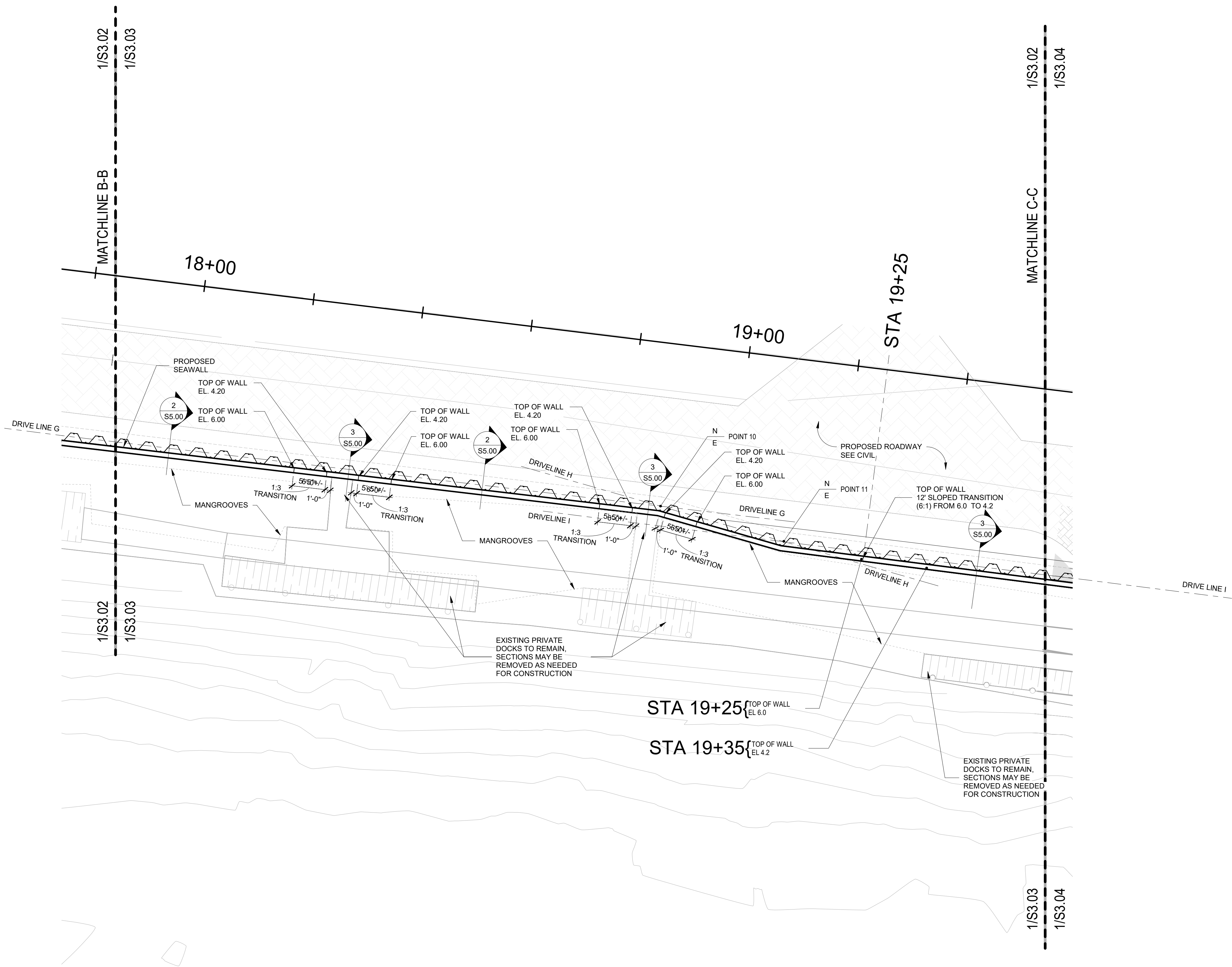
THE CITY OF DELRAY BEACH
HISTORIC MARINE WAY SEAWALL, ROADWAY,
AND DAMAGE IMPROVEMENT
ENLARGED MARINE WAY SEAWALL

PROJECT NO.
17-047

SHEET NO.

S3.02

FILE ID. 17-047



① ENLARGED PLAN - CC
1" = 10'-0"



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THE CITY OF DELRAY BEACH
HISTORIC MARINE WAY SEAWALL, ROADWAY,
AND DAMAGE IMPROVEMENT
ENLARGED MARINE WAY SEAWALL

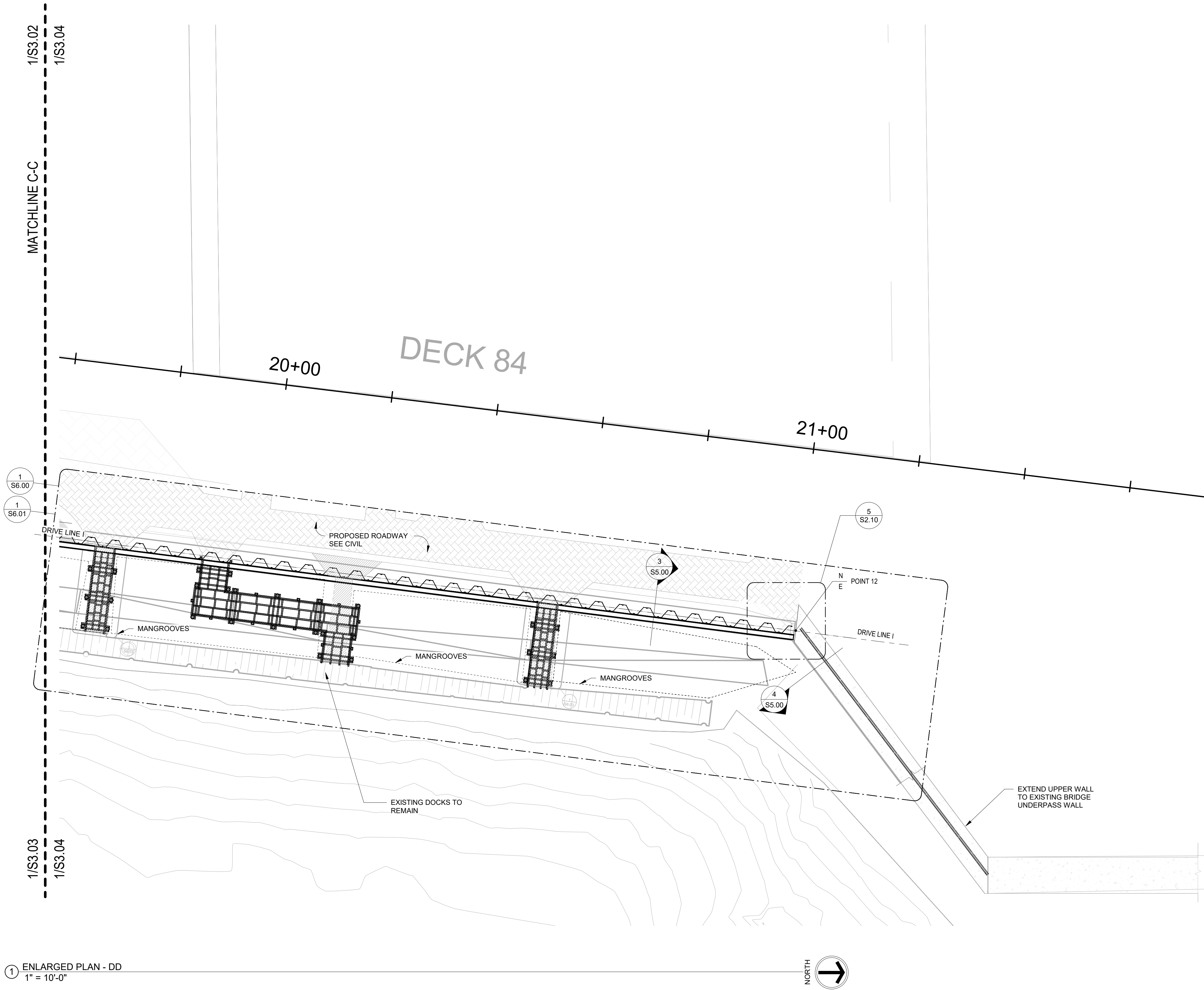
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17-047

SHEET NO.

SS3.03

FILE ID. 17-047

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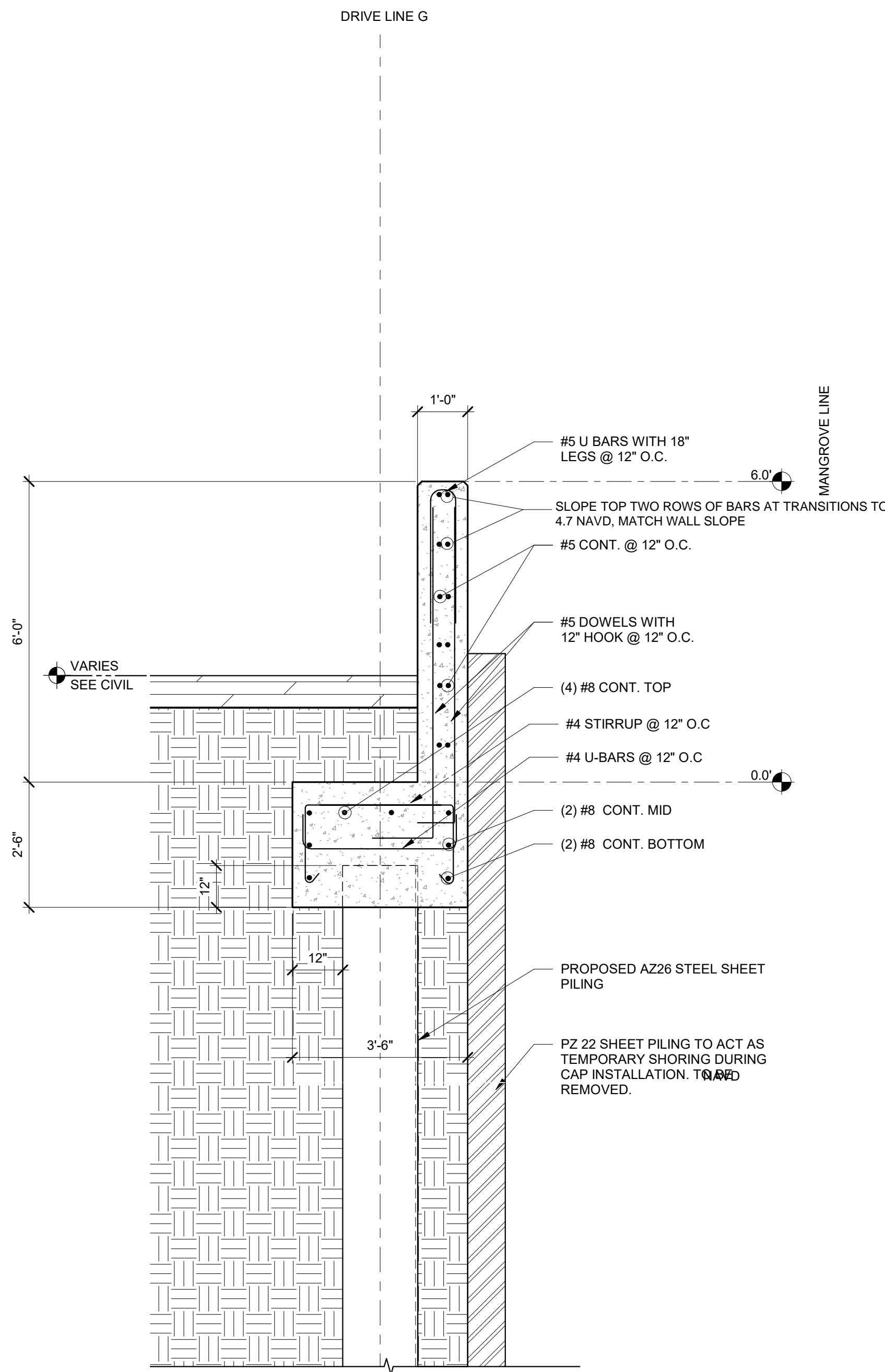


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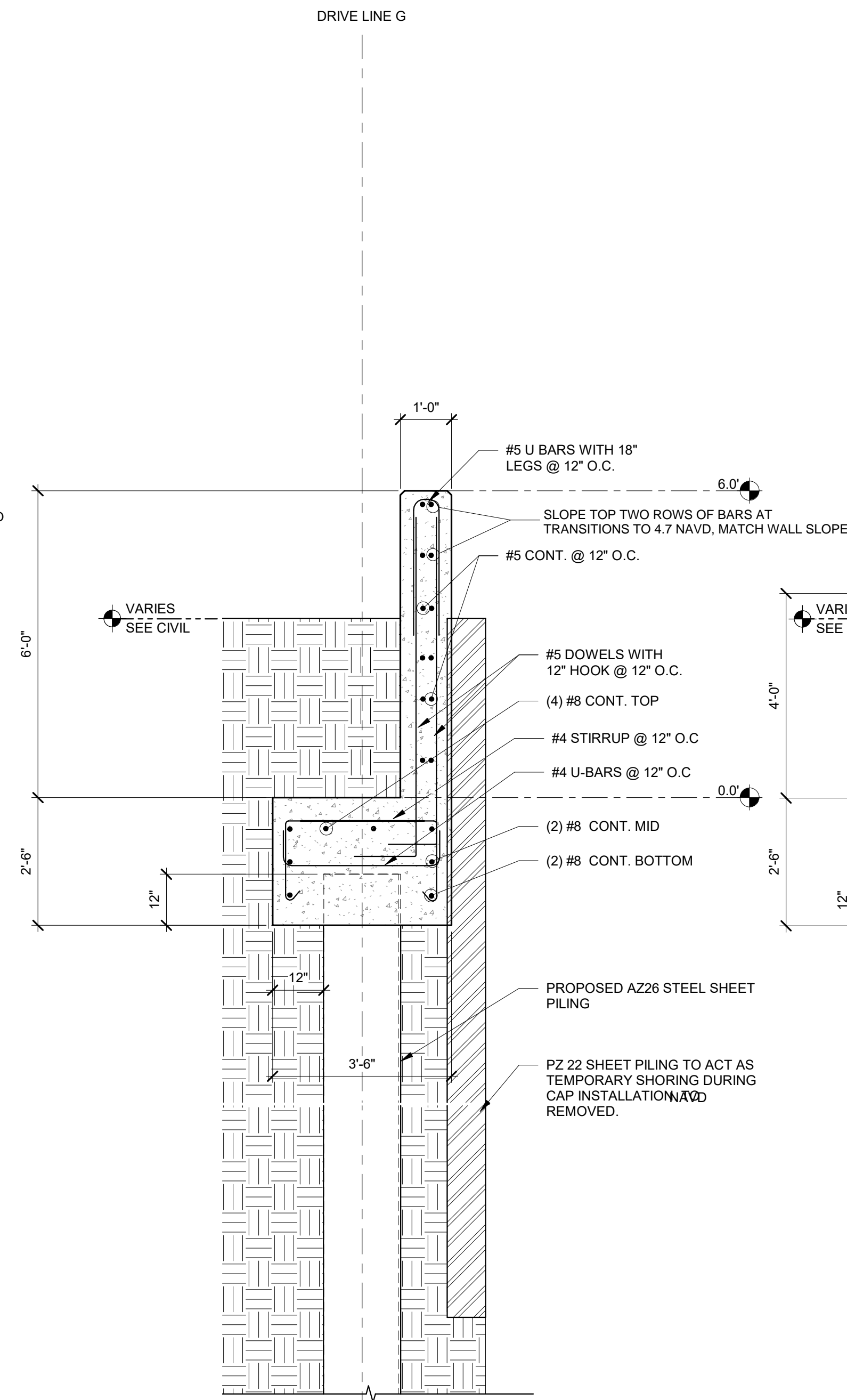
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HISTORIC MARINE WAY SEAWALL, ROADWAY,
AND DAMAGE IMPROVEMENT
ENLARGED MARINE WAY SEAWALL

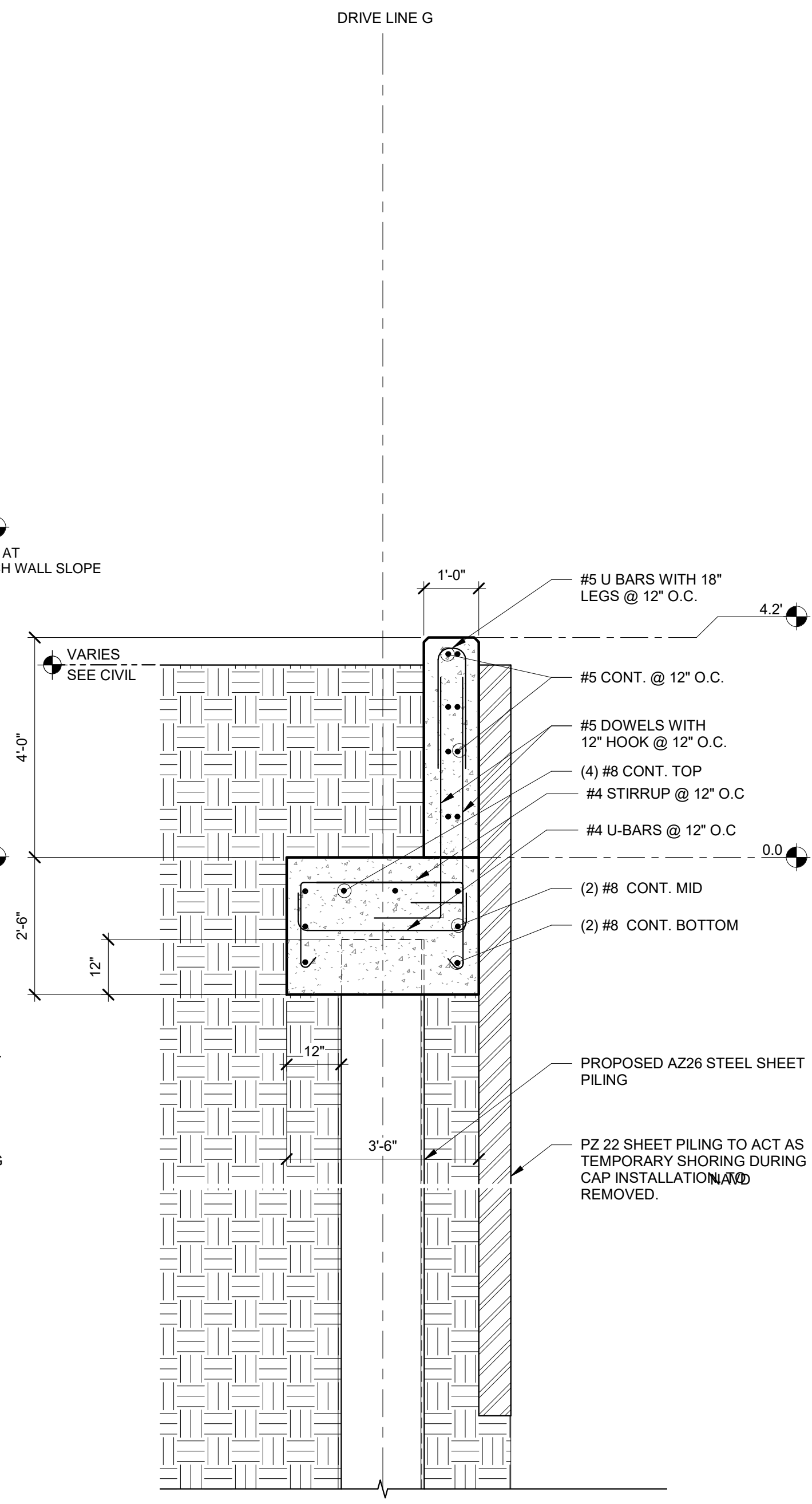
PROJECT NO.
17-047
SHEET NO.
S3.04
FILE ID. 17-047



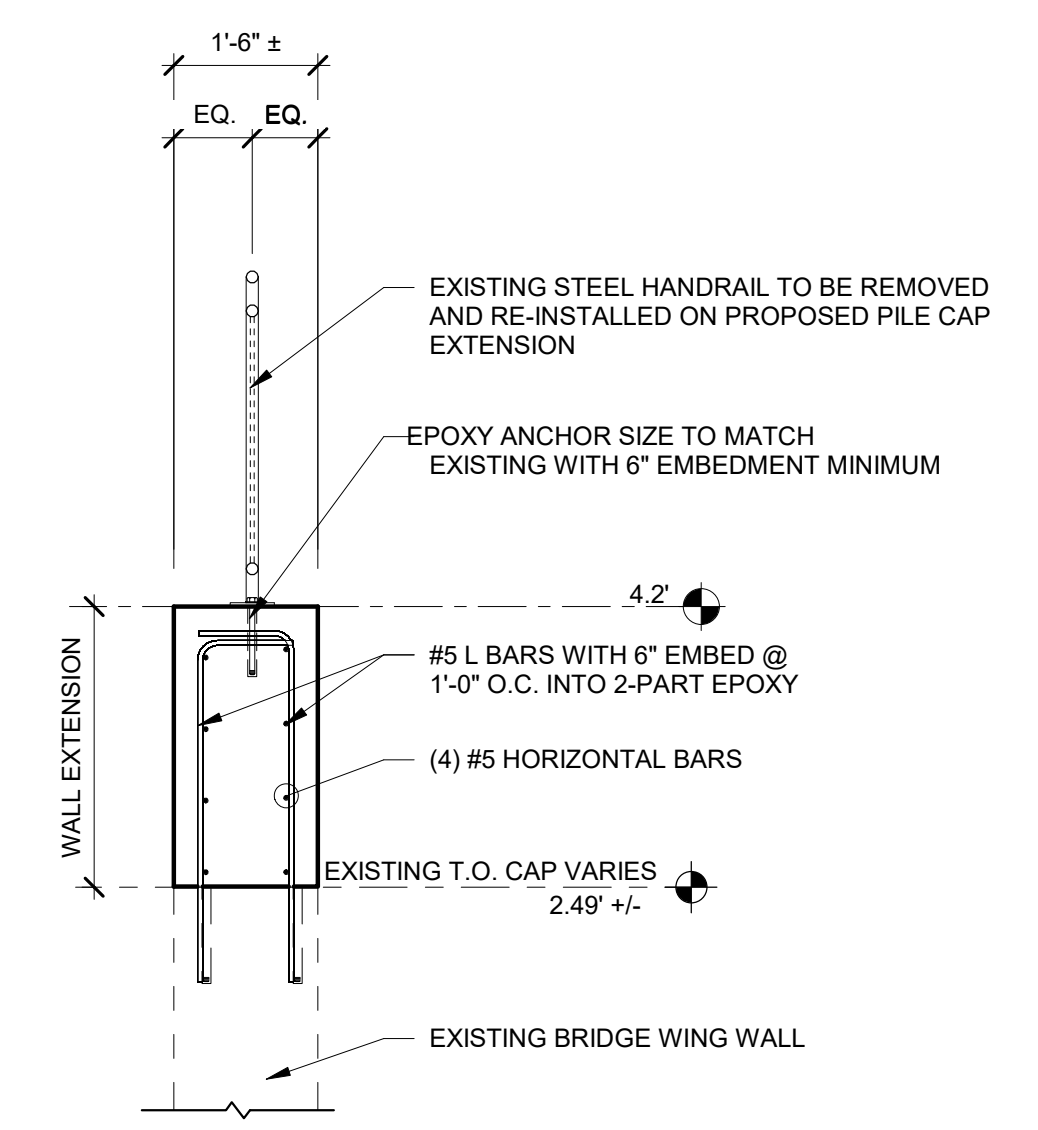
1 SEAWALL SECTION
1/2" = 1'-0"




2 SEAWALL- SECTION
1/2" = 1'-0"



3 SEAWALL- SECTION
1/2" = 1'-0"



4 SECTION
1/2" = 1'-0"



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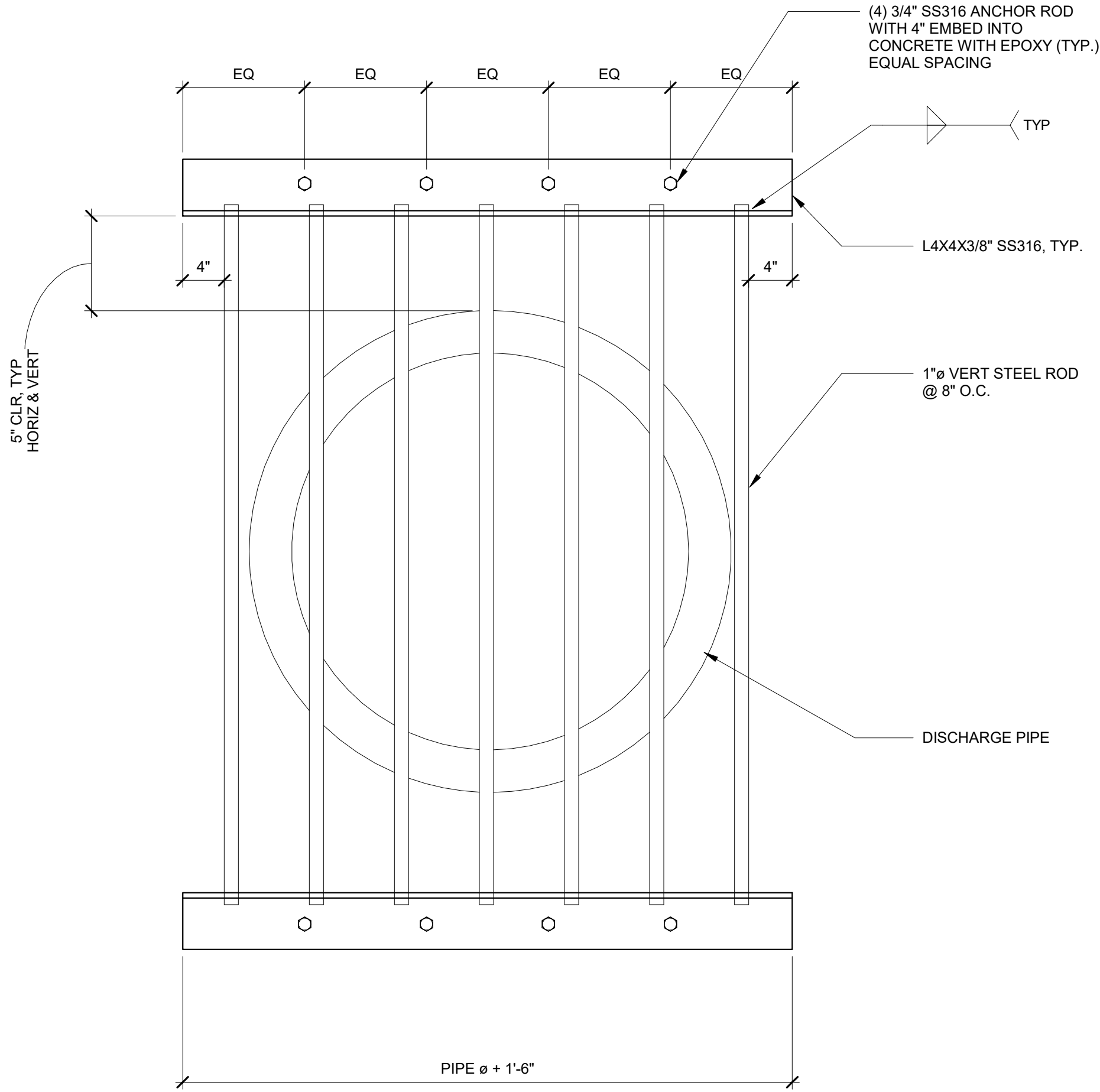
THE CITY OF DELRAY BEACH
HISTORIC MARINE WAY SEAWALL, ROADWAY,
AND DAMAGE IMPROVEMENT

MARINE WAY DETAILS

PROJECT NO.
17-047

SHEET NO.
~~55~~ 50

FILE ID. 17-047



NOTE: MANATEE GRATE SHALL BE IN ACCORDANCE
WITH FDOT DESIGN STANDARD INDEX NO. 280.

① MANTEE GRATE DETAIL
NTS



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2035 Vista Parkway
West Palm Beach, FL 33411
Phone No. 561.687.2220
Fax No. 561.687.1110
Registry No. 33574

| | | | | |
|-------------|----------|----------|------|-------------|
| DESIGNED BY | JRB | REVISION | DATE | DESCRIPTION |
| DRAWN BY | DAB | | | |
| CHECK BY | AS | | | |
| | | | | |
| | | | | |
| DATE | 12/23/22 | | | |

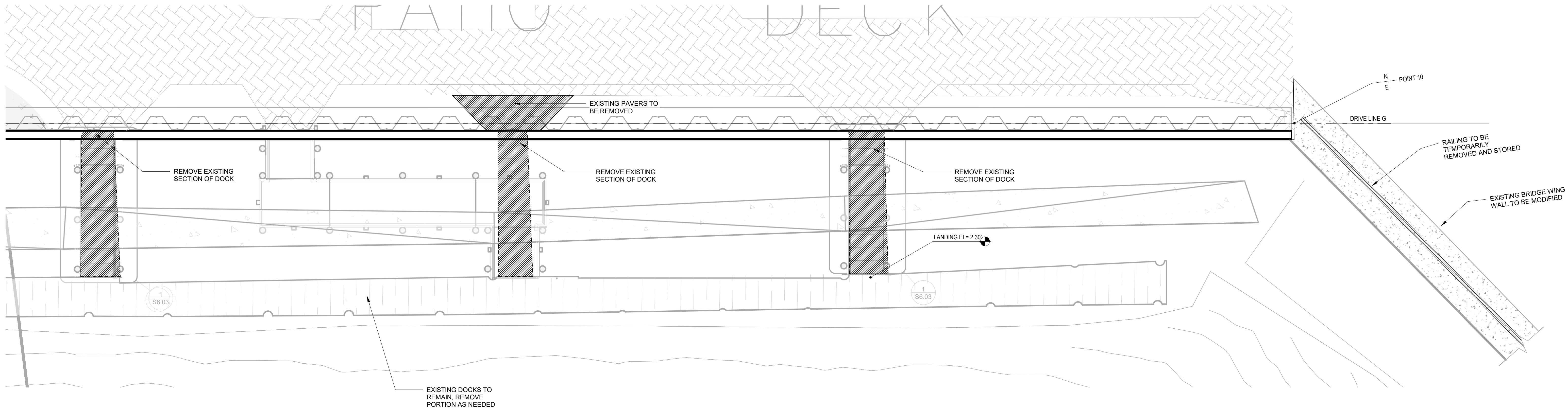
THE CITY OF DELRAY BEACH
HISTORIC MARINE WAY SEAWALL, ROADWAY,
AND DAMAGE IMPROVEMENT
MARINE WAY DETAILS

PROJECT NO.
17-047

SHEET NO.

SS.01

FILE ID. 17-047



1 ENLARGED PLAN - CC - DEMO
3/16" = 1'-0"



CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7322 FAX: (561) 243-7314 www.mydelraybeach.com

PREPARED BY:



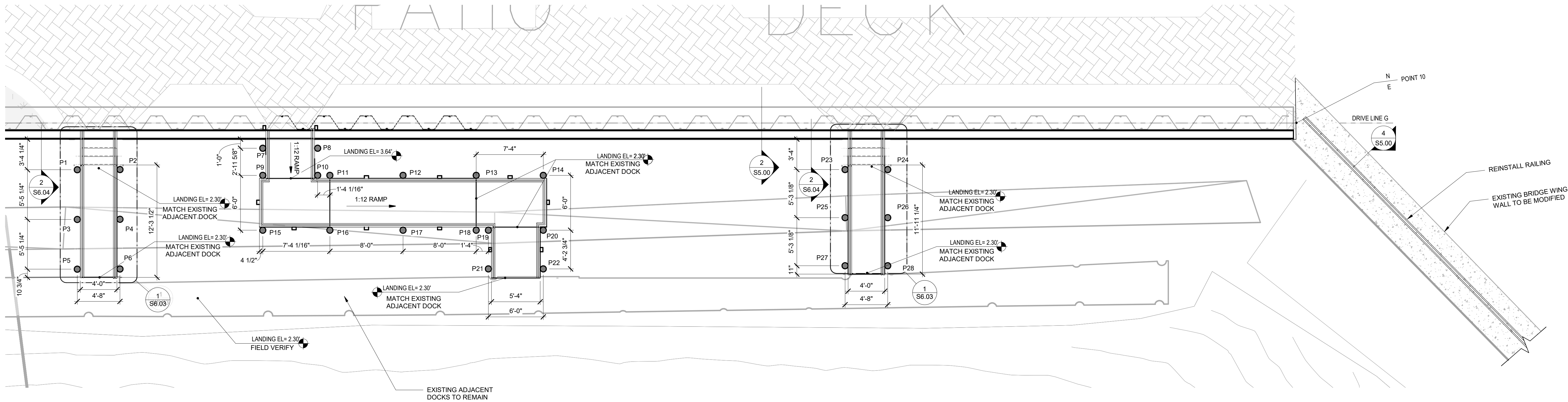
2035 Vista Parkway
West Palm Beach, FL 33411
Phone No. 561.687.2220
Fax No. 561.687.1110
Registry No. 33574

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|-------------|----------|----------|----------|-------------|
| DESIGNED BY | JRB | REVISION | DATE | DESCRIPTION |
| DRAWN BY | DAB | | 12/23/22 | 90% CD SET |
| CHECK BY | AS | | | |
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| | | | | |
| DATE | 12/23/22 | | | |

THE CITY OF DELRAY BEACH
HISTORIC MARINE WAY SEAWALL, ROADWAY,
AND DAMAGE IMPROVEMENT
ENLARGED MARINE WAY
SEAWALL-DEMO

| | |
|-------------|--------|
| PROJECT NO. | 17-047 |
| SHEET NO. | 56.00 |
| FILE ID. | 17-047 |

| PILE NUMBER | NORTHING | EASTING |
|-------------|-----------|-----------|
| P1 | 774416.95 | 962283.04 |
| P2 | 774421.58 | 962283.61 |
| P3 | 774416.26 | 962288.43 |
| P4 | 774420.90 | 962289.00 |
| P5 | 774415.58 | 962293.83 |
| P6 | 774420.21 | 962294.40 |
| P7 | 774437.36 | 962283.26 |
| P8 | 774443.32 | 962284.02 |
| P9 | 774436.99 | 962286.21 |
| P10 | 774442.94 | 962286.96 |
| P11 | 774444.27 | 962287.13 |
| P12 | 774452.20 | 962288.14 |
| P13 | 774460.14 | 962289.15 |
| P14 | 774467.41 | 962290.07 |
| P15 | 774436.23 | 962292.16 |
| P16 | 774443.51 | 962293.08 |
| P17 | 774451.45 | 962294.09 |
| P18 | 774459.38 | 962295.10 |
| P19 | 774460.71 | 962295.27 |
| P20 | 774466.66 | 962296.02 |
| P21 | 774460.17 | 962299.46 |
| P22 | 774466.13 | 962300.22 |
| P23 | 774500.23 | 962293.60 |
| P24 | 774504.86 | 962294.19 |
| P25 | 774499.57 | 962298.82 |
| P26 | 774504.20 | 962299.41 |
| P27 | 774498.90 | 962304.04 |
| P28 | 774503.53 | 962304.63 |



1 ENLARGED PLAN - CC - PROPOSED
3/16" = 1'-0"



CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT
434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444
Phone: (561) 243-7322 FAX: (561) 243-7314 www.mydelraybeach.com

PREPARED BY:

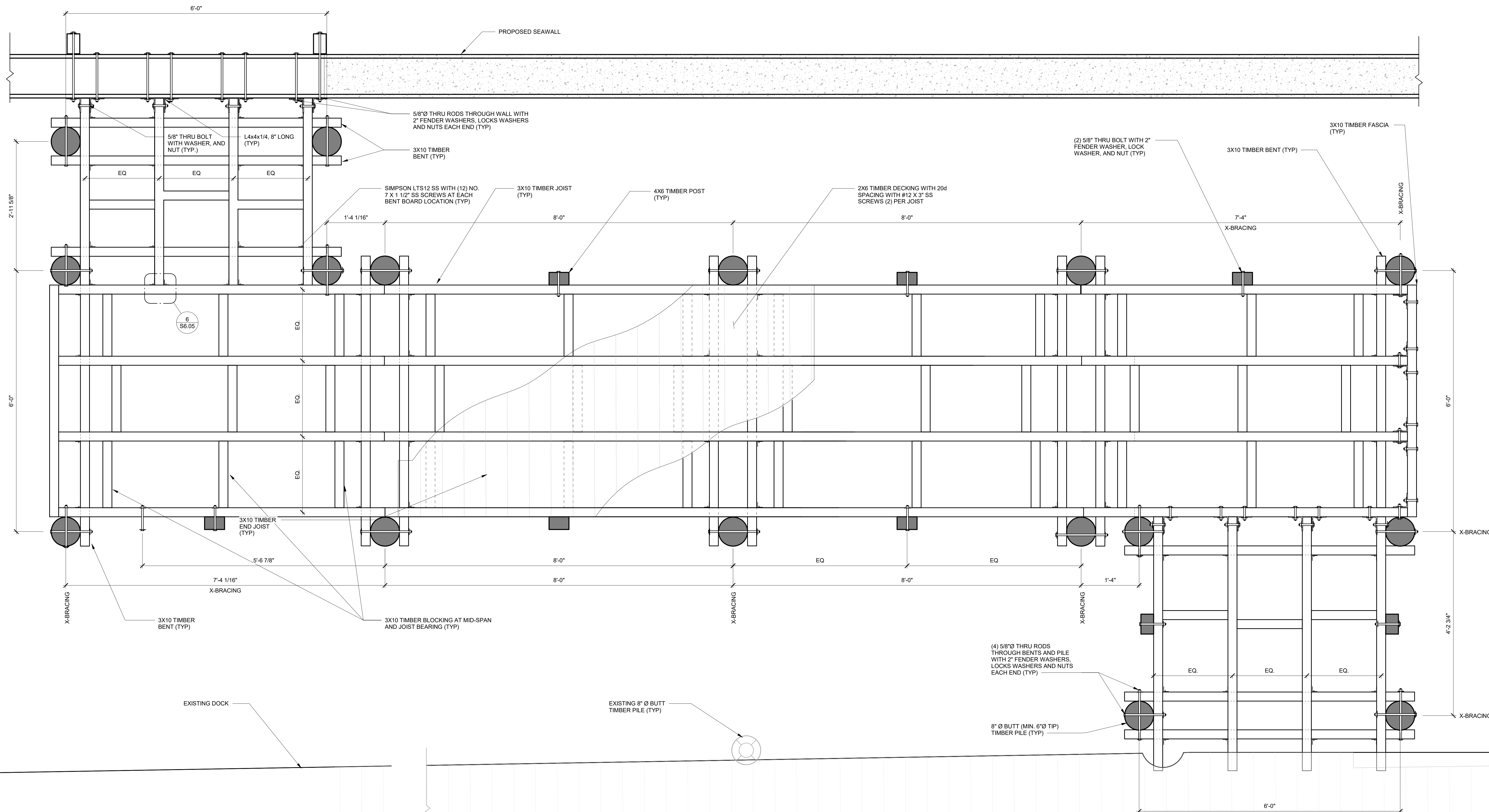


2035 Vista Parkway
West Palm Beach, FL 33411
Phone No. 561.687.2220
Fax No. 561.687.1110
Registry No. 33574

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|-------------|----------|----------|----------|-------------|
| DESIGNED BY | JRB | REVISION | DATE | DESCRIPTION |
| DRAWN BY | DAB | | 12/23/22 | 90% CD SET |
| CHECK BY | AS | | | |
| | | | | |
| | | | | |
| DATE | 12/23/22 | | | |

THE CITY OF DELRAY BEACH
HISTORIC MARINE WAY SEAWALL, ROADWAY,
AND DAMAGE IMPROVEMENT
ENLARGED MARINE WAY DOCKS

PROJECT NO.
17-047
SHEET NO.
S6.01
FILE ID. 17-047



CITY of DELRAY BEACH
PUBLIC WORKS DEPARTMENT

434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444

Phone: (561) 243-7322 FAX: (561) 243-7314 www.mydelraybeach.com

PREPARED BY: ENLARGED RAMP FRAMING PLAN



2035 Vista Parkway
West Palm Beach, FL 33411
Phone No. 561.687.2220
Fax No. 561.687.1110
® Registry No. 33574

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|-------------|----------|----------|----------|-------------|
| DESIGNED BY | JRB | REVISION | DATE | DESCRIPTION |
| DRAWN BY | DAB | | 12/23/22 | 90% CD SET |
| CHECK BY | AS | | | |
| | | | | |
| | | | | |
| DATE | 12/23/22 | | | |

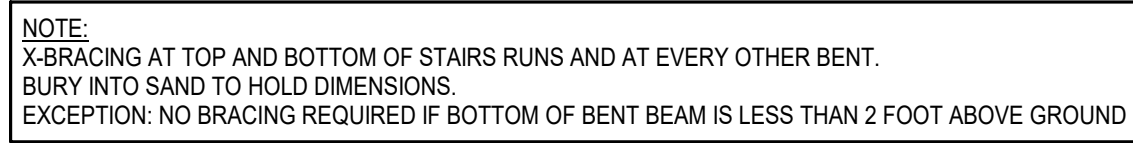
THE CITY OF DELRAY BEACH
HISTORIC MARINE WAY SEAWALL, ROADWAY,
AND DRAINAGE IMPROVEMENT
WOOD RAMP FRAMING PLAN

PROJECT NO.
17-047

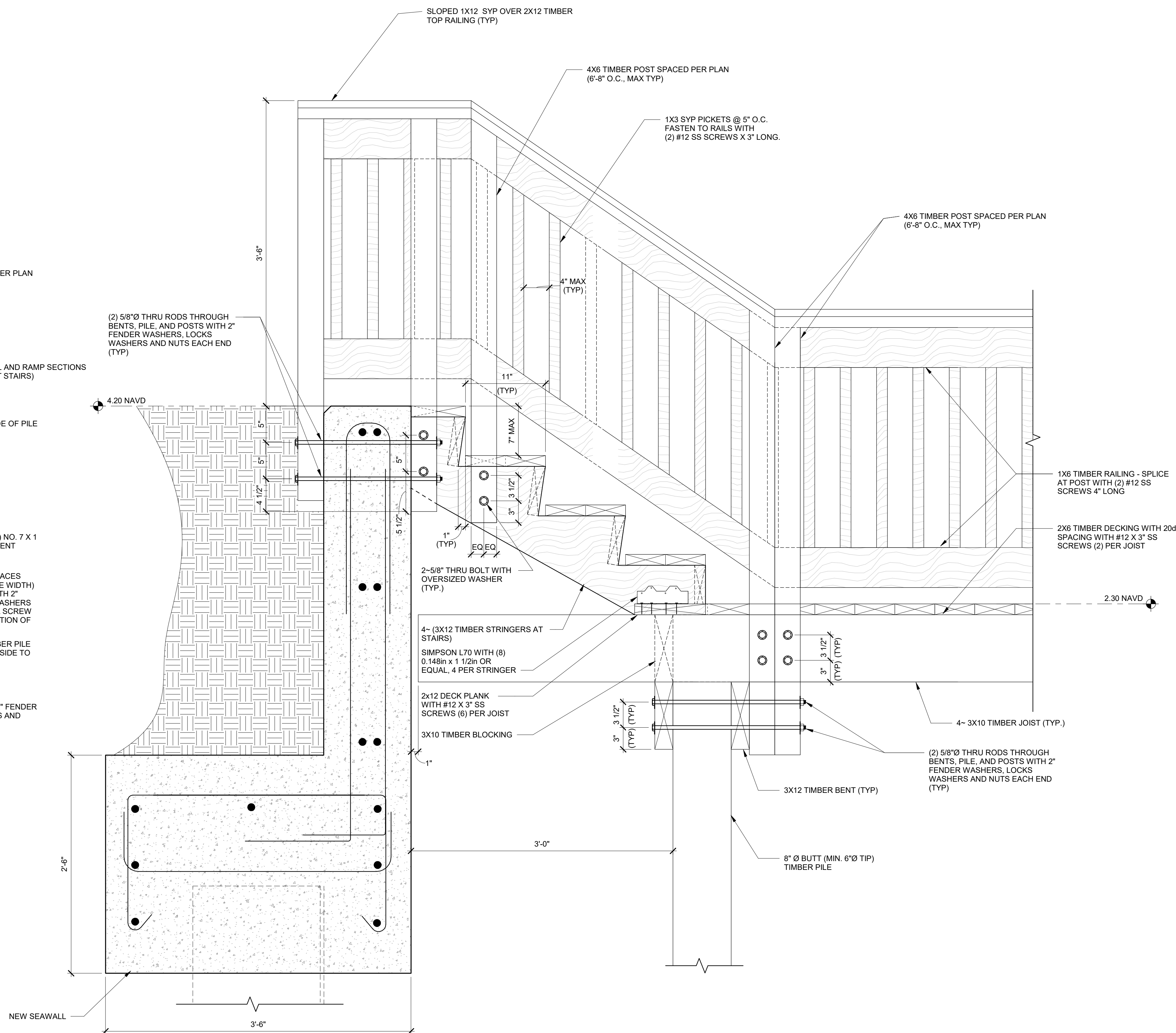
SHEET NO.

SS6.02

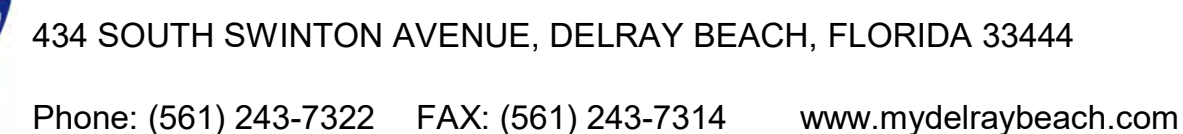
FILE ID. 17-047



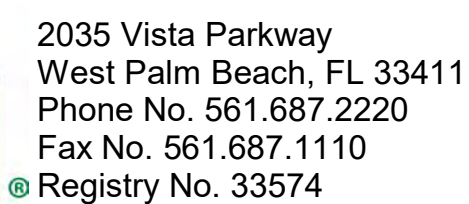
① TYPICAL SECTION THROUGH ACCESS
AT PILES
1" = 1'-0"



② TYPICAL BOARDWALK STAIR SECTION
1 1/2" = 1'-0"



PREPARED BY:



| | | | | |
|-------------|----------|----------|----------|-------------|
| DESIGNED BY | JRB | REVISION | DATE | DESCRIPTION |
| DRAWN BY | DAB | | 12/23/22 | 90% CD SET |
| CHECK BY | AS | | | |
| | | | | |
| | | | | |
| DATE | 12/23/22 | | | |

THE CITY OF DELRAY BEACH
HISTORIC MARINE WAY SEAWALL, ROADWAY,
AND DRAINAGE IMPROVEMENT
WOOD STAIRS AND ACCESS SECTIONS

| | |
|-------------|--------|
| PROJECT NO. | 17-047 |
| SHEET NO. | 36.04 |
| FILE ID. | 17-047 |