



# CITY OF MIAMI

OFFICE OF CAPITAL IMPROVEMENTS  
 HECTOR L. BADIA - INTERIM DIRECTOR

## SEWELL PARK SHORELINE IMPROVEMENTS

MIAMI, FL 33125

### PERMIT SET

Mayor  
 Francis Suarez

Commission:  
 Chairman - D5 Commissioner  
 Christine King

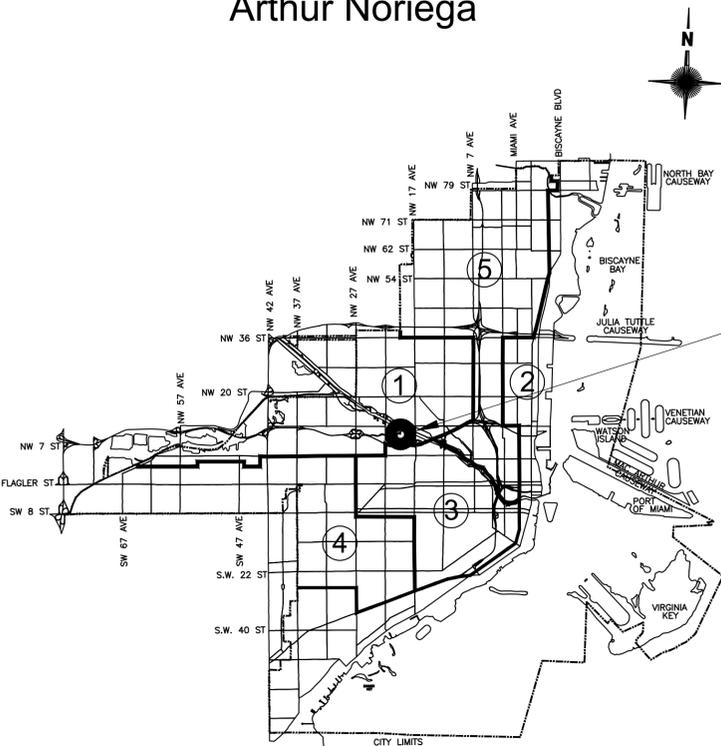
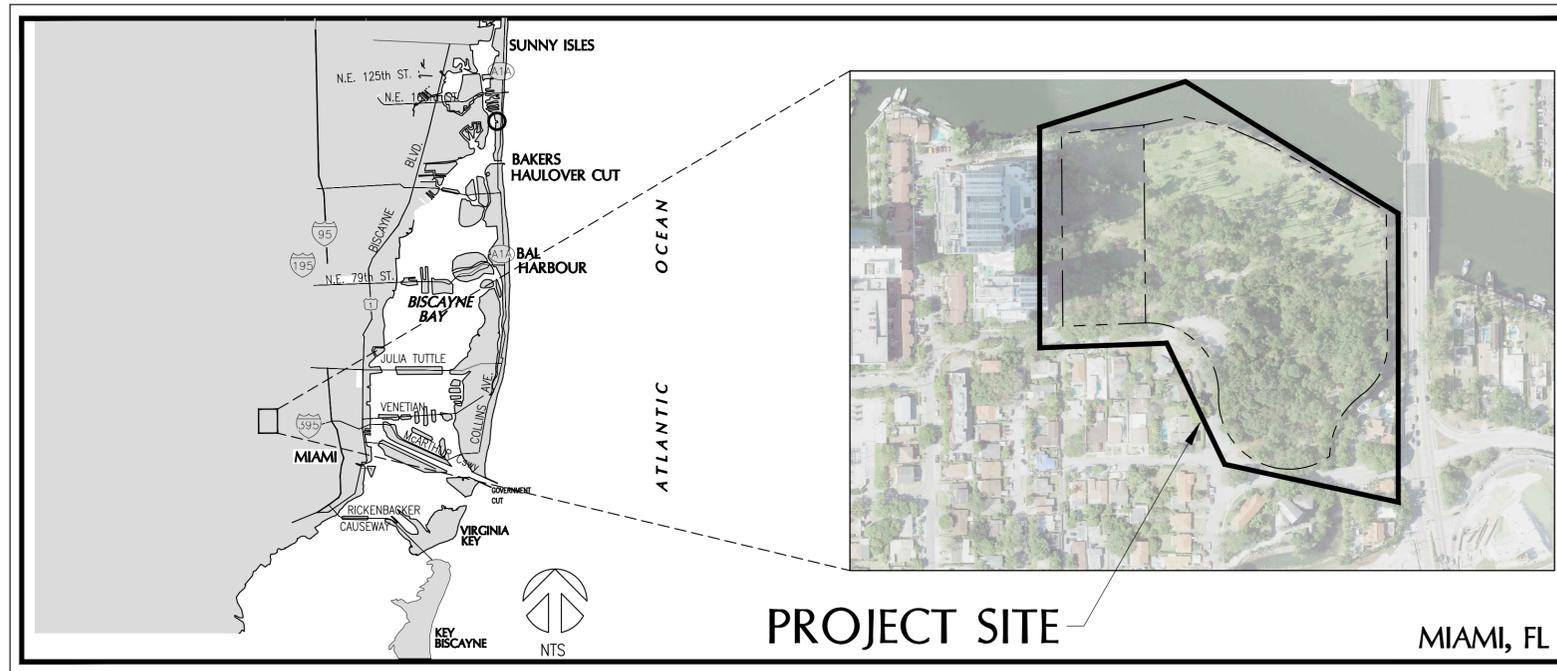
Vice Chairman - D2 Commissioner  
 Ken Russell

D1 Commissioner  
 Alex Diaz de la Portilla

D3 Commissioner  
 Joe Carollo

D4 Commissioner  
 Manolo Reyes

City Manager  
 Arthur Noriega



| Sheet List Table |  |
|------------------|--|
| Sheet Number     | Sheet Title                                    |
| G001             | COVER SHEET                                    |
| G002             | GENERAL NOTES                                  |
| G101             | EXISTING SITE CONDITIONS                       |
| SWPPP001         | STORMWATER POLLUTION PREVENTION PLAN NOTES - 1 |
| SWPPP002         | STORMWATER POLLUTION PREVENTION PLAN NOTES - 2 |
| SWPPP101         | STORMWATER POLLUTION PREVENTION PLAN           |
| SWPPP501         | STORMWATER POLLUTION PREVENTION PLAN DETAILS   |
| D101             | PROPOSED DEMOLITION PLAN                       |
| D301             | PROPOSED DEMOLITION SECTIONS                   |
| S100             | PROPOSED OVERALL SITE PLAN                     |
| S101             | PROPOSED SEAWALL SETBACK PLAN                  |
| S102             | PROPOSED SITE PLAN - 1                         |
| S103             | PROPOSED SITE PLAN - 2                         |
| S301             | PROPOSED SHORELINE SECTIONS - 1                |
| S302             | PROPOSED SHORELINE SECTIONS - 2                |
| S303             | PROPOSED SHORELINE SECTIONS - 3                |



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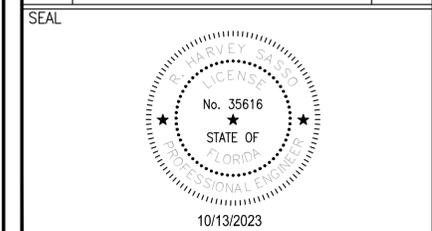
SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP



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PROJECT:  
**SEWELL PARK  
 SHORELINE  
 IMPROVEMENTS**

| No. | REVISIONS - SUBMITTALS | DATE     |
|-----|------------------------|----------|
| 1   | PERMIT SET             | 10/13/23 |
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SHEET No. **G001** 1 OF 16

**GENERAL NOTES:**

1. THE WORK CONSISTS OF FURNISHING ALL CONSTRUCTION, LABOR, EQUIPMENT AND MATERIALS AND PERFORMING ALL OPERATIONS IN CONNECTION WITH REMAINDER OF THE LOT IN THE SITE AS SHOWN ON THESE DRAWINGS.
2. THE CONTRACTOR SHALL ABIDE BY ALL NOTES AND CONDITIONS INDICATED ON THE CONSTRUCTION PLANS AND PERMITS. IF THE CONTRACTOR VIOLATES ANY CONDITION OF THE PERMIT AND WORK IS STOPPED BY THE STATE OR OTHER PUBLIC ENTITY, THEN ANY ADDITIONAL COSTS INCURRED BY THE CONTRACTOR SHALL BE PAID BY THE CONTRACTOR AND NOT CHARGED TO THE OWNER.
3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL LOCAL BUILDING PERMITS NECESSARY FOR THIS WORK. A PRE-CONSTRUCTION MEETING WILL BE HELD ON SITE TO VERIFY DETAILS AND METHODS OF CONSTRUCTION.
4. EXCEPT AS NOTED ON THE PLANS, ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH THE FLORIDA BUILDING CODE OR FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
5. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. ANY DISCREPANCIES IN THE PLANS WITH FIELD CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. CONSTRUCTION SHALL NOT CONTINUE UNTIL THE ENGINEER HAS ADDRESSED THE DISCREPANCIES.
6. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH OTHER UPLAND CONTRACTORS ON SITE.
7. FOR LEGEND SYMBOLS REFER TO INDIVIDUAL PLAN SHEETS.

**TOPOGRAPHIC SURVEY NOTES:**

1. TOPOGRAPHIC DATA TAKEN FROM SURVEY PERFORMED BY MILLER LEGG ON 4/27/2021.
2. HORIZONTAL COORDINATES ARE IN FEET AND REFERENCED TO FLORIDA STATE PLANE EAST ZONE (NAD 83).
3. ELEVATIONS ARE IN FEET AND REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).

**DEMOLITION NOTES:**

1. REMOVE ALL CONCRETE, PAVEMENT SURFACE, AND OTHER OBSTRUCTIONS WITHIN LIMITS OF CONSTRUCTION AS NOTED ON THE DEMOLITION PLAN.
2. ANY SIGNS TO BE REMOVED FOR CONSTRUCTION MUST BE RELOCATED AFTER CONSTRUCTION.
3. FOR TREE REMOVAL AND PROCEDURES, SEE LANDSCAPING PLANS.

**CONSTRUCTION SAFETY:**

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE OCCUPATION SAFETY AND HEALTH ADMINISTRATION (O.S.H.A.) AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) AS WELL AS ANY APPLICABLE LOCAL AND STATE ORDINANCES.

**LAYOUT AND TESTING:**

1. ALL CONSTRUCTION STAKEOUT SHALL BE PERFORMED BY AND PAID FOR BY THE CONTRACTOR UNDER THE SUPERVISION OF A FLORIDA REGISTERED SURVEYOR.
2. ALL TESTING AND INSPECTION FOR CONCRETE MATERIALS SHALL BE IN ACCORDANCE WITH FDOT SPECIFICATIONS AND SHALL BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY AND WILL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY.
3. CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SET OF AS-BUILT DRAWINGS IN SUFFICIENT DETAILS TO ILLUSTRATE THE HORIZONTAL AND VERTICAL COMPONENTS OF ABOVE AND BELOW GROUND STRUCTURES. AS-BUILTS DRAWINGS SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED ENGINEER OR SURVEYOR AS APPROPRIATE.

**PROJECT CLOSEOUT:**

1. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONSTRUCTION SITE DURING CONSTRUCTION AND FOR FINAL CLEAN-UP AT THE COMPLETION OF THE PROJECT.
2. THE CONTRACTOR SHALL RESTORE OR REPLACE ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS WORK, EQUIPMENT, EMPLOYEES OR SUBCONTRACTORS TO EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

**EARTHWORK AND COMPACTION NOTES:**

1. EXISTING ON-SITE BASE MATERIAL SHALL NOT BE REUSED FOR BASE CONSTRUCTION, BUT MAY BE USED FOR BACKFILL AROUND UTILITY AND DRAINAGE LINES, AND FOR SUBGRADE CONSTRUCTION, AND FOR GENERAL FILL AS APPROVED BY THE ENGINEER.
2. ALL SUBGRADE UNDER PAVED AREAS SHALL HAVE A MINIMUM L.B.R. VALUE OF 40 AND SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
3. ALL FILL MATERIAL IN AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
4. ALL ORGANIC AND OTHER UNSUITABLE MATERIAL WITHIN THREE (3) FEET OF FINISHED GRADE AREAS TO BE PAVED SHALL BE REMOVED.
5. SUITABLE BACKFILL SHALL BE MINIMUM L.B.R. 40 MATERIAL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 FOR A MINIMUM OF THREE (3) FEET BEYOND THE PERIMETER OF THE PAVING.
6. THE CONTRACTOR SHALL HIRE AN INDEPENDENT TESTING LABORATORY TO PERFORM DENSITY TESTING AT NO ADDITIONAL COST TO THE CITY.

**STEEL SHEET PILING NOTES:**

1. STEEL SHEET PILING SHALL BE OF THE SECTIONS INDICATED ON CONSTRUCTION PLANS OR APPROVED EQUAL, AND WILL BE ASTM A572, GRADE 50.
2. SHEET PILING SHALL BE COATED WITH TNEME (46H-413) COAL TAR EPOXY OR EQUIVALENT; TOP 15', BOTH SIDES EXCEPT AS NOTED.

3. COATING SHALL BE 16 MILS DRY FILM THICKNESS, AND APPLIED IN TWO COATS IN STRICT ACCORDANCE WITH MANUFACTURER INSTRUCTIONS.
4. DRIVE SHEET PILING IN ACCORDANCE WITH FDOT SPECIFICATION 455-9.
5. VIBRATIONS AND SETTLEMENT DURING PILE DRIVING IN ACCORDANCE WITH FDOT SPECIFICATION 455-1.1.
6. CONTRACTOR SHALL FILL-IN VOID BETWEEN EXISTING BULKHEAD AND NEW STEEL SHEET PILE WITH #57 STONE, FDOT SPECIFICATION 901-1. RECYCLED CONCRETE AT THE APPROPRIATE GRADATION IS AN ACCEPTABLE ALTERNATIVE.

**CONCRETE NOTES**

1. ALL CONCRETE MATERIALS, REINFORCEMENT, AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH FDOT SPECIFICATION 346, 400, AND 415 EXCEPT AS NOTED.
2. PROVIDE 3/4" CHAMFERS ON ALL EXPOSED EDGES AND CORNERS EXCEPT AS OTHERWISE NOTED.
3. 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.
4. ALL CAST-IN-PLACE CONCRETE TO BE A MINIMUM OF 5,500 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
5. PROVIDE MIX DESIGN FOR A CLASS IV CONCRETE FOR AN EXTREMELY AGGRESSIVE (MARINE) ENVIRONMENT. PROVIDE SUFFICIENT AMOUNT OF FLY ASH, MICROSILICA, OR SLAG TO THE CEMENT CONTENT TO INCREASE IMPERMEABILITY OF CONCRETE. MAX W/C = 0.40.
6. CURE PLACED CONCRETE IN ACCORDANCE WITH LATEST FDOT SPECIFICATION 400-16.1.
7. COAT CONCRETE CAP WITH THOROCOAT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. PROVIDE COURSE FINISH, OWNER TO SPECIFY COLOR.
8. EXPANSION JOINT MATERIAL SHALL BE ASPHALT IMPREGNATED FIBER EXPANSION BOARD, UNLESS OTHERWISE NOTED. CONTRACTOR TO SUBMIT PRODUCT CUT SHEETS AND SPECIFICATIONS FOR ENGINEER'S APPROVAL.

**REINFORCEMENT STEEL NOTES:**

1. ALL CONCRETE BEAMS, SLABS, PILE CAPS AND CLOSURE POURS TO USE ASTM A615 GRADE 60 STEEL REBAR, UNLESS OTHERWISE NOTED. WELDED REINFORCEMENT SHALL BE GRADE 60W (ASTM A706).
2. ALL DIMENSIONS PERTAINING TO LOCATION OF REINFORCING ARE TO CENTER LINE OF BARS EXCEPT WHERE THE CLEAR DIMENSION IS SHOWN TO FACE OF CONCRETE.
3. NO METAL CHAIRS OR OTHER METAL OBJECTS SHALL BE USED TO SUPPORT REINFORCING CAGES. PLASTIC CHAIRS OR MASONRY BLOCKS ARE ACCEPTABLE, PROVIDED SHOP DRAWINGS ARE SUBMITTED TO THE ENGINEER FOR REVIEW.
4. MINIMUM CONCRETE COVER SHALL BE 4" TO THE OUTSIDE OF REINFORCING BARS.
5. PLASTIC ZIP-TIES MAY BE SUBSTITUTED FOR WIRE TIES, PROVIDED SHOP DRAWINGS ARE SUBMITTED TO THE ENGINEER FOR REVIEW.
6. EPOXY FOR ANCHORING REINFORCEMENT DOWELS SHALL BE HILTI HIT-HY 150 OR APPROVED EQUAL.

**WOOD NOTES:**

1. WOOD SHALL BE STANDARD DRESSED SAWN WOOD, S4S, EXCEPT AS NOTED.
2. WOOD SHALL BE NO. 1 DENSE SOUTHERN YELLOW PINE.
3. ALL WOOD SHALL BE PRESSURE TREATED WITH CHROMATED COPPER ARSENATE (CCA) FOR MARINE USE WITH A MINIMUM RETENTION IN POUNDS PER CUBIC FEET AS FOLLOWS:  
JOIST = 0.60  
STRINGER = 0.60
4. ALL DECKING SHALL BE TROPICAL DECKING, SOUTHERN YELLOW PINE, 2x6 DSS GRADE.
5. ALL DECKING AND RAILING SHALL BE TREATED WITH ALKALINE COPPER QUATERNARY (ACQ) AT A MINIMUM RETENTION OF 0.40 PCF WITH WAX WATER REPELLENT COMPONENT.
6. RAILING POSTS SHALL BE NO. 1 DENSE SOUTHERN YELLOW PINE TREATED WITH 0.40 PCF ACQ.
7. TREATMENT SHALL BE IN CONFORMANCE WITH THE STANDARDS OF AWPA C18. CUT OR SAWED SURFACES IN PRESERVATIVE TREATED MEMBERS SHALL RECEIVE TWO COATS OF THE SAME PRESERVATION USED IN THE ORIGINAL TREATMENT OR APPROVED EQUIVALENT.
8. WOOD SHALL BE FREE OF SPLINTERS WARPAGE, BOW, OR OTHER STRUCTURAL DEFICIENCIES.
9. ALL BOLTS & HARDWARE SHALL BE 316 STAINLESS STEEL W/ A MINIMUM YIELD STRENGTH OF 45 KSI UNLESS OTHERWISE NOTED.

**WOOD PILE NOTES:**

1. ALL WOOD PILES SHALL BE SOUTHERN YELLOW PINE OTHERWISE NOTED.
2. WOOD PILES SHALL BE NO. 1 SOUTHERN PINE.
3. ALL WOOD PILES SHALL BE PRESSURE TREATED WITH 2.5 CCA RETENTION (PCF).

**CONCRETE FLOATING DOCK NOTES:**

1. FLOATING DOCKS MANUFACTURER TO BE DETERMINED.
2. TIP ELEVATION OF GUIDE PILES WILL BE SPECIFIED BY MANUFACTURER SELECTED.
3. GUIDE PILES TO BE 14" SQUARE FDOT PRESTRESSED PRECAST CONCRETE PILES INSTALLED ON THE OUTER SIDE OF THE FLOATING DOCKS (EXTERNAL GUIDE PILES).

**PRESTRESSED CONCRETE PILING NOTES:**

1. PROVIDE AND INSTALL CONCRETE PILING IN ACCORDANCE WITH FDOT SPECIFICATION 455.
2. PILES WILL BE MANUFACTURED BY AN FDOT-APPROVED FACILITY.

3. CONCRETE WILL BE FDOT CLASS IV (SPECIAL) FOR AN EXTREMELY AGGRESSIVE (MARINE) ENVIRONMENT. PROVIDE SUFFICIENT FLY ASH, MICRO SILICA OR SLAG TO THE CEMENT CONTENT TO INCREASE IMPERMEABILITY OF CONCRETE.
4. CONCRETE WILL HAVE A MINIMUM OF 6,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
5. PILES TO BE DRIVEN TO ACHIEVE THE ALLOWABLE CAPACITY DETERMINED BY THE FLOATING DOCK MANUFACTURER.
6. PILE DRIVING WILL BE INSPECTED BY AN INDEPENDENT THIRD PARTY GEOTECHNICAL ENGINEER APPROVED BY THE OWNER.
7. ALL TESTING AND INSPECTIONS FOR PRE-STRESSED CONCRETE PILES, PREVIOUSLY SCHEDULED BY THE CONTRACTOR, SHALL BE IN ACCORDANCE WITH FDOT SPECIFICATIONS, AND SHALL BE PERFORMED BY AN INDEPENDENT THIRD PARTY TESTING LABORATORY RETAINED BY THE OWNER.

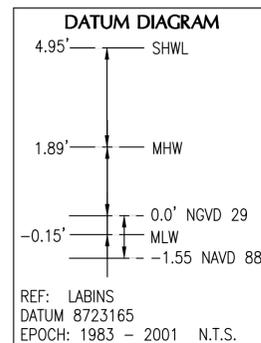
**INSTALLATION OF GEOTEXTILE AND RIPRAP NOTES:**

1. INSTALL GEOTEXTILE AS INDICATED ON THE DRAWINGS AND IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
2. OWNER SHALL STAKE LIMITS OF SEAGRASS, IF APPLICABLE, PRIOR TO PLACEMENT OF RIPRAP IN ACCORDANCE WITH ENVIRONMENTAL PERMIT CONDITIONS.
3. PLACE GEOTEXTILE ON A SMOOTH GRADED SURFACE APPROVED BY THE OWNER. PLACE GEOTEXTILE IN IMMEDIATE CONTACT WITH THE PREPARED SLOPE SUCH THAT THERE ARE NO VOIDS AND IN SUCH A MANNER THAT IT WILL NOT BE EXCESSIVELY STRETCHED OR TORN UPON PLACEMENT OF OVERLYING MATERIALS.
4. ANCHOR THE GEOTEXTILE USING ANCHOR PINS RECOMMENDED BY THE MANUFACTURER.
5. JOIN GEOTEXTILE SHEETS BY OVERLAPPING A MINIMUM OF 3 FEET.
6. PLACE EACH TYPE OF RIPRAP IN THE LOCATIONS AND TO THE ELEVATIONS, THICKNESS, AND DETAILS INDICATED ON THE DRAWINGS AND AS DIRECTED BY THE OWNER. USE METHODS TO ENSURE THAT THE FINER ONE-THIRD OF THE GRADATION IS EVENLY DISTRIBUTED THROUGHOUT THE LAYER AND OVER THE SURFACE BEING COVERED.
7. BEGIN PLACEMENT OF RIPRAP AT THE TOE OF THE SLOPE AND CONTINUE PLACEMENT WORKING UP THE SLOPE. PLACE THE ROCK IN SUCH A MANNER AS TO CREATE FIRM BEDDING AND INTERLOCKING OF INDIVIDUAL PIECES TO OBTAIN A TIGHTLY PACKED STRUCTURE. THE FINISHED SURFACE SHALL BE DENSELY PLACED, WELL-KEYED, AND UNIFORM. FILL VOIDS, REWORK ROCKS NOT PROPERLY EMBEDDED, AND REMOVE PROTUBERANCES TO THE SATISFACTION OF THE OWNER. REMOVE AND REPLACE THE PORTION OF ANY LAYER IN WHICH MATERIAL BECOMES SEGREGATED DURING SPREADING.
8. DO NOT DROP THE ROCK WHEN PLACING OVER GEOTEXTILE.
9. E-CONCRETE ARMOR BLOCKS OR APPROVED EQUAL WITH THE FOLLOWING SPECIFICATIONS SHALL BE INSTALLED PER MANUFACTURES INSTRUCTIONS:
  - a. MATERIAL COMPOSITION OF CONCRETE SHALL INCLUDE BIO-ENHANCING ADDITIVES TO GENERATE MARINE HABITATS.
  - b. THE SURFACE OF THE CONCRETE ARMOR BLOCKS SHALL EXHIBIT A PATTERN WITH SUFFICIENT COMPLEXITY TO PROVIDE A BIODIVERSE MARINE HABITAT.
10. SIZE OF ARMOR BLOCK SHALL BE 2'-3'

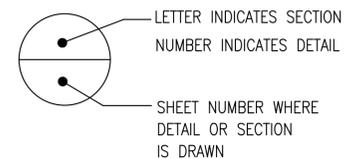
**SUBMITTALS:**

1. CONTRACTOR TO SUBMIT MATERIAL CUT SHEETS, SHOP DRAWINGS OR SPECIFICATIONS OF THE FOLLOWING ITEMS FOR ENGINEER'S APPROVAL, PRIOR TO PROCUREMENT OR INSTALLATION:
 

|   |  |
|---|--|
| A. DEMOLITION METHODS AND DISPOSAL PLAN                             | G. EXPANSION JOINT MATERIAL  |
| B. REINFORCING STEEL  | H. PLASTIC ZIP-TIES AND CHAIRS   |
| C. PILE DRIVING MEANS AND METHODS INCLUDING PILE HAMMER DATA        | I. MATERIALS DISPOSAL TRUCK TICKETS                                      |
| D. FORMWORK   | J. STEEL SHEET PILING  |
| E. SCHEDULE FOR COMPLETION OF WORK WITH TASKS AND DURATIONS DEFINED | K. PROCEDURE FOR THE PROTECTION OF FRESH CONCRETE FROM INCREMENT WEATHER |
| F. THOROCOAT  | L. GEOTEXTILE FABRIC   |



**SECTION DETAIL LABEL**



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SEWELL PARK SHORELINE IMPROVEMENTS MIAMI, FL 33125

GENERAL NOTES



DATE: 10/13/2023  
 NAME: R. HARVEY SASSO  
 FL. REGISTRATION No. 35616

| No. | REVISIONS - SUBMITTALS | DATE     |
|-----|------------------------|----------|
| 1   | PERMIT SET             | 10/13/23 |
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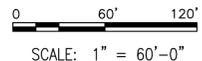
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### ABBREVIATIONS

|            |                            |        |                               |
|------------|----------------------------|--------|-------------------------------|
| ALUM.      | ALUMINUM                   | HDG.   | HOT DIPPED GALVANIZED         |
| B.         | BOTTOM                     | HKS.   | HOOKS                         |
| APPROX.    | APPROXIMATE                | I.J.   | ISOLATION JOINT               |
| C.J.P.     | COMPLETE JOINT PENETRATION | MAX.   | MAXIMUM                       |
| C.J.       | CONTROL JOINT              | MID.   | MIDDLE                        |
| CL.        | CENTER LINE                | MIN.   | MINIMUM                       |
| CLR.       | CLEAR                      | MHW.   | MEAN HIGH WATER               |
| CONC.      | CONCRETE                   | MLW.   | MEAN LOW WATER                |
| CONT.      | CONTINUOUS                 | NAVD.  | NAT'L AMERICAN VERTICAL DATUM |
| CTD.       | CENTERED                   | NGVD.  | NAT'L GEODETIC VERTICAL DATUM |
| DIA./Ø     | DIAMETER                   | OA.    | OVERALL                       |
| EA.        | EACH                       | O.C.   | ON CENTER                     |
| E.F.       | EACH FACE                  | P.E.   | PROFESSIONAL ENGINEER         |
| E.J.       | EXPANSION JOINT            | PSF.   | POUNDS PER SQUARE FOOT        |
| EOR.       | ENGINEER OF RECORD         | PSI.   | POUNDS PER SQUARE INCH        |
| ELEV.      | ELEVATION                  | SS.    | STAINLESS STEEL               |
| EW.        | EACH WAY                   | STL.   | STEEL                         |
| EXIST./EX. | EXISTING                   | T.     | TOP                           |
| FRP.       | FIBER REINFORCED PLASTIC   | T&B.   | TOP & BOTTOM                  |
| GALV.      | GALVANIZED                 | TYP.   | TYPICAL                       |
|            |                            | U.N.O. | UNLESS NOTED OTHERWISE        |



| Waterfront Structure Type        | Length Approx. | Unit | Address                   |
|----------------------------------|----------------|------|---------------------------|
| Total Waterfront Property Length | 200            | ft   | 1825 NW South River Drive |
| Total Waterfront Property Length | 846            | ft   | 1815 NW South River Drive |
| TOTAL                            | 1,046          | ft   | Combined                  |



 **EXISTING SITE CONDITIONS**  
SCALE: 1" = 60'-0"

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SEWELL PARK  
SHORELINE IMPROVEMENTS  
MIAMI, FL 33125

EXISTING SITE CONDITIONS

CONSULTANT SPACE



DATE: 10/13/2023  
NAME: R. HARVEY SASSO  
FL. REGISTRATION No. 35616

| No. | REVISIONS - SUBMITTALS | DATE     |
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**COUNTY REQUIREMENTS**

SITE DESCRIPTION:

PROJECT NAME AND LOCATION:  
SEWELL PARK SHORELINE IMPROVEMENTS  
1815 AND 1825 NW S RIVER DR.  
MIAMI, FLORIDA 33125

OWNER:

CITY OF MIAMI  
DEPARTMENT OF ASSET MANAGEMENT DIVISION  
444 SW 2nd AVE. #325  
MIAMI, FL 33130

DESCRIPTION:

THE PROJECT IS LOCATED AT 1815 AND 1825 NW S RIVER DR. MIAMI, MIAMI-DADE COUNTY, FLORIDA 33125. THE PROJECT WILL OCCUR WITHIN THE PROPERTY LIMITS AND THE MIAMI RIVER SHORELINE. THE PROPOSED CONSTRUCTION ACTIVITY CONSISTS OF REDESIGNING IT WITH A BAYWALK, KAYAK LAUNCH, LIVING SHORELINE, AND SHORELINE STABILIZATION TO INCLUDE RESTORATION OF THE UPLAND AND THE EXISTING CONCRETE SEAWALL. TOTAL PROJECT AREA IS 0.55 ACRES, NPDES PERMIT (0.5 ACRE OR MORE).

PUBLIC:

ON A 10.75 +/- ACRE SITE

SOIL DISTURBING ACTIVITIES WILL INCLUDE:

REGRADE THE PARK, REMOVAL AND RECONSTRUCTION OF PARK WALKWAY, CONSTRUCTION OF NEW PLAYGROUND WITH NEW RUBBERIZED SURFACE FOR PLAY AREA, SHORELINE RESTORATION, NEW SEAWALL INCREASED TO 7.55' NGVD.

REFER TO SHEET SWPPP-4 FOR LOCATION OF TEMPORARY STABILIZATION PRACTICES AND TURBIDITY BARRIERS. SEE GENERAL NOTES FOR REQUIREMENTS FOR TEMPORARY AND PERMANENT STABILIZATION.

SITE AREA:

- 1. TOTAL AREA OF SITE= 10.75 +/- ACRES
- 2. TOTAL AREA TO BE DISTURBED = 0.55 ACRES (APPROX.)

NAME OF RECEIVING WATERS: MIAMI RIVER

**CONTROLS**

THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES TO CONTROL EROSION AND TURBIDITY CAUSED BY STORM WATER RUN OFF. AN EROSION AND TURBIDITY PLAN HAS BEEN PREPARED TO INSTRUCT THE CONTRACTOR ON PLACEMENT OF THESE CONTROLS. IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL AND MAINTAIN THE CONTROLS PER PLAN AS WELL AS ENSURING THE PLAN IS PROVIDING THE PROPER PROTECTION AS REQUIRED BY FEDERAL, STATE AND LOCAL LAWS. REFER TO CONTRACTOR'S RESPONSIBILITY FOR A VERBAL DESCRIPTION OF CONTROLS THAT MAY BE IMPLEMENTED.

**TIMING OF CONTROLS / MEASURES**

REFER TO "CONTRACTOR'S RESPONSIBILITY" FOR THE TIMING OF CONTROL/MEASURES.

**POLLUTION PREVENTION PLAN CERTIFICATION**

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SIGNED:  
CONTRACTOR

DATED:

**GENERAL**

THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS. DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCCULENTS TO THE RETENTION SYSTEM PRIOR TO PLACING THE SYSTEM INTO OPERATION.

**SEQUENCE OF MAJOR ACTIVITIES:**

- 1. INSTALL STABILIZED CONSTRUCTION ENTRANCE AND SILT FENCE
- 2. INSTALL SILT AND SYNTHETIC BALES AS REQUIRED
- 3. CLEAR AND GRUB FOR DIVERSION SWALE/DIKES AND SEDIMENT BASIN
- 4. CONSTRUCT SEDIMENTATION BASIN
- 5. STOCK PILE TOP SOIL IF REQUIRED
- 6. STABILIZE DENUDED AREAS AND STOCKPILES AS SOON AS PRACTICABLE
- 7. SHORELINE STABILIZATION
- 8. DEMOLITION OF ALL CONCRETE SLABS (INCLUDING EXISTING KAYAK LAUNCH RAMP AND CONCRETE CAP)
- 9. CONSTRUCTION OF NEW PARK SEAWALL INCLUDING REARRANGEMENT OF RIP RAP
- 10. RE-GRADING THE PARK TO MEET PROPOSED DESIGN
- 11. CONSTRUCTION OF KNEE WALL

- 12. CONSTRUCTION OF NEW BAYWALK PER MIAMI-21 DESIGN CODE
- 13. INSTALL PARK ELECTRICAL COMPONENTS
- 14. INSTALL PARK FURNITURE
- 25. INSTALL ALL LANDSCAPING ITEMS (INCLUDING TREES AND PALMS)
- 26. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETED AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALE/DIKES AND RESEED/SOD AS REQUIRED

**TIMING OF CONTROLS/ MEASURES**

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES AND SYNTHETIC BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND THE EARTH DIKE/SWALES WILL BE REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN.

**CONTROLS**

IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED BY THE CONTRACTOR AS REQUIRED THE EROSION AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.

EROSION AND SEDIMENT CONTROLS STABILIZATION PRACTICES:

- 1. SYNTHETIC BALE BARRIER: HALE BALE BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:
  - A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.
  - B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.
  - C. WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS.
  - D. EVERY EFFORT SHOULD BE MADE TO LIMIT THE USE OF STRAW BALE BARRIERS CONSTRUCTED IN LIVE STREAMS OR IN SWALES WHERE THERE IS THE POSSIBILITY OF A WASHOUT. IF NECESSARY, MEASURE SHALL BE TAKEN TO PROPERLY ANCHOR BALES TO INSURE AGAINST WASHOUT.
- 2. FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:
  - A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.
  - B. MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.
- 3. STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.
- 4. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 10 ACRES. THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREA WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.
- 5. INLET PROTECTION: INLETS AND CATCH BASINS SHALL NOT DISCHARGE DIRECTLY OFF-SITE. INLETS SHALL BE PROTECTED FROM SEDIMENT-LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.
- 6. TEMPORARY SEEDING: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 30 DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING.
- 7. TEMPORARY REGRASSING: IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75 PERCENT OF GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER
- 8. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.
- 9. PERMANENT EROSION CONTROL: THE CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.

EROSION CONTROL DEVICES:

- 1. LOCATIONS AND TYPES OF ALL EROSION CONTROL DEVICES SHALL BE INSTALLED AS DIRECTED BY PLAN AND/OR BY THE CITY OF MIAMI. CONTRACTOR SHALL IMPLEMENT THE SWPPP AS PER CONTRACT PLANS. HOWEVER, IT MAY BE REVISED BASED ON ACTUAL FIELD CONDITIONS AT THE TIME WORK IS BEING PERFORMED. FIELD MODIFICATIONS WILL BE APPROVED BY THE CITY OF MIAMI. MONITORING SHALL BE PERFORMED ON A WEEKLY BASIS AND AFTER A 1/2" STORM EVENT WITH ROUTINE MAINTENANCE AND REPLACEMENT OF ANY DEVICES AS REQUIRED. CONTAINMENT OR REMOVAL OF POLLUTANTS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE AND CITY OF MIAMI REGULATIONS AND/OR FDOT STANDARD SPECIFICATIONS.

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY R. HARVEY SASSO ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDER SIGNED AND SEALED AND SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP



SEWELL PARK  
SHORELINE IMPROVEMENTS  
MIAMI, FL 33125

STORMWATER POLLUTION  
PREVENTION PLAN NOTES - 1



DATE: 10/13/2023  
NAME: R. HARVEY SASSO  
FL. REGISTRATION No. 35616

| No. | REVISIONS - SUBMITTALS | DATE     |
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DESCRIPTION OF STORMWATER MANAGEMENT:

1. CONTRACTOR SHALL INSTALL AND MAINTAIN THE EROSION AND SEDIMENT CONTROL, DESCRIBED HEREIN, AFTER ANY RAIN EVENT, THE CONTRACTOR WILL REPAIR OR REPLACE ANY AFFECTED CONTROLS (SILT FENCE, FILTER FABRIC, AND SYNTHETIC BALES).
2. DRAINAGE BASIN SHALL BE CLEANED PRIOR TO THE START OF CONSTRUCTION AND INSPECTED/CLEANED POST CONSTRUCTION.

STRUCTURAL PRACTICES:

1. TEMPORARY DIVERSION DIKE: TEMPORARY DIVERSION DIKES MAY BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT-TRAPPING FACILITY.
2. TEMPORARY SEDIMENT TRAP: A SEDIMENT TRAP SHALL BE INSTALLED IN A DRAINAGE WAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FROM A DISTURBED AREA. THE FOLLOWING SEDIMENT TRAPS MAY BE CONSTRUCTED EITHER INDEPENDENTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION DIKE:
  - A. BLOCK & GRAVEL SEDIMENT FILTER- THIS PROTECTION IS APPLICABLE WHERE HEAVY FLOWS AND/OR WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND STRUCTURE.
  - B. GRAVEL SEDIMENT TRAP- THIS PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.
  - C. DROP INLET SEDIMENT TRAP- THIS PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (Q  $\leq$  5%) AND WHERE SHEET OR OVERLAND FLOW (Q  $\geq$  0.5 CFS) ARE TYPICAL. THIS METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS SUCH AS IN STREET OR HIGHWAY MEDIANS.
3. OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE FLOW COULD CAUSE EROSION AND SEDIMENT PROBLEM TO THE RECEIVING WATER BODY. SILT FENCES AND HAY BALES ARE TO BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE DISCHARGING STRUCTURE AS SHOWN ON THE OUTLET PROTECTION DETAIL.

**OTHER CONTROLS**

WASTE DISPOSAL: (T.B.D.)

WASTE MATERIALS:

ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE THE CONSTRUCTION SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

HAZARDOUS WASTE:

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

SANITARY WASTE:

ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DEPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER SYSTEMS.

OFFSITE VEHICLE TRACKING:

A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEPED DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPULIN.

**INVENT. FOR POLLUTION PREVENTION PLAN**

THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ON SITE DURING CONSTRUCTION:

- CONCRETE
- ASPHALT
- TAR
- \_\_\_\_\_
- PAINTS
- PETROLEUM BASED PRODUCTS
- CLEANING SOLVENTS
- \_\_\_\_\_
- WOOD
- \_\_\_\_\_

| SIGNATURE | BUSINESS NAME AND ADDRESS OF CONTRACTOR & ALL SUBS | RESPONSIBLE FOR/DUTIES |
|-----------|--|------------------------|
|           |  | GENERAL CONTRACTOR     |
|           |  | SUB-CONTRACTOR         |
|           |  | SUB-CONTRACTOR         |
|           |  | SUB-CONTRACTOR         |

**SPILL PREVENTION**

MATERIAL MANAGEMENT PRACTICES:

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORMWATER RUNOFF.

**PLANT BED PREPARATION NOTES**

PROTECTION OF PLANTS:

THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT EXISTING TREES AND SHRUBS IN AND ADJACENT TO THE AREA OF WORK. ERECT BARRIERS AS NECESSARY TO KEEP EQUIPMENT AND MATERIALS, ANY TOXIC MATERIAL, AWAY FROM THE CANOPY DRIP LINE OF TREES AND SHRUBS. DO NOT PILE SOIL OR DEBRIS AGAINST TREE TRUNKS OR DEPOSIT NOXIOUS BUILDING SUPPLIES OR CHEMICALS WITHIN THE DRIP LINE. TREE PROTECTION SHOULD ADHERE TO THE CITY OF MIAMI TREE PROTECTION PLAN.

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**SEWELL PARK  
SHORELINE IMPROVEMENTS  
MIAMI, FL 33125**

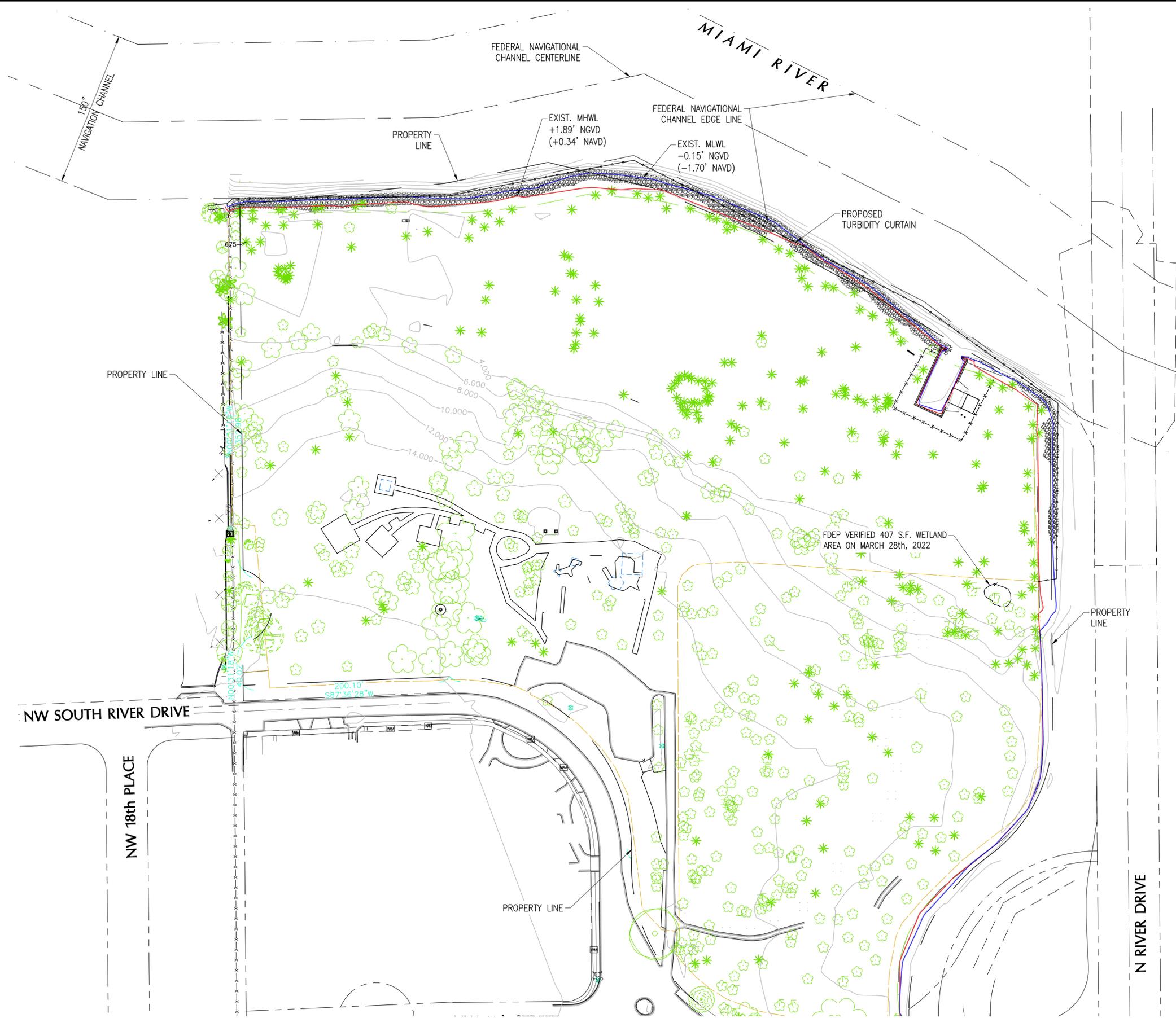
**STORMWATER POLLUTION  
PREVENTION PLAN NOTES - 2**

CONSULTANT SPACE

DATE: 10/13/2023  
 NAME: R. HARVEY SASSO  
 FL. REGISTRATION No. 35616

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SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP



**SEWELL PARK**  
**SHORELINE IMPROVEMENTS**  
 MIAMI, FL 33125

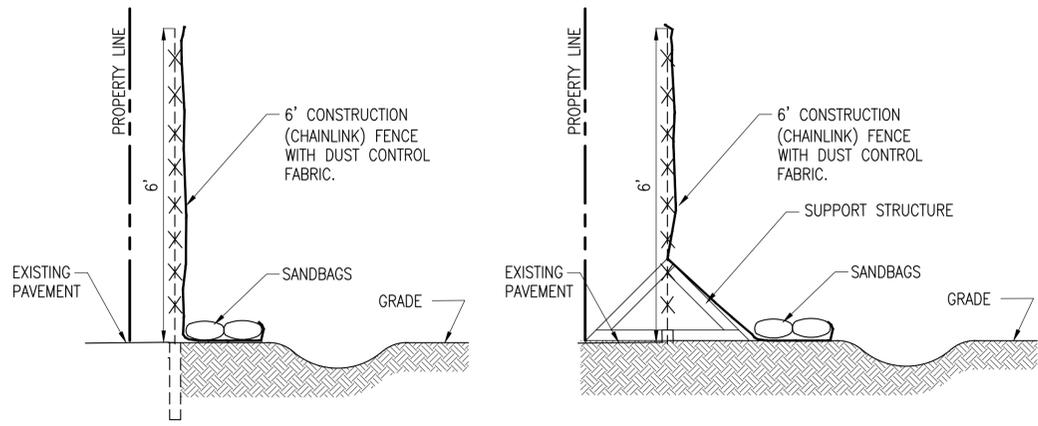
**STORMWATER POLLUTION PREVENTION PLAN**



DATE: 10/13/2023  
 NAME: R. HARVEY SASSO  
 FL. REGISTRATION No. 35616

| No. | REVISIONS - SUBMITTALS | DATE     |
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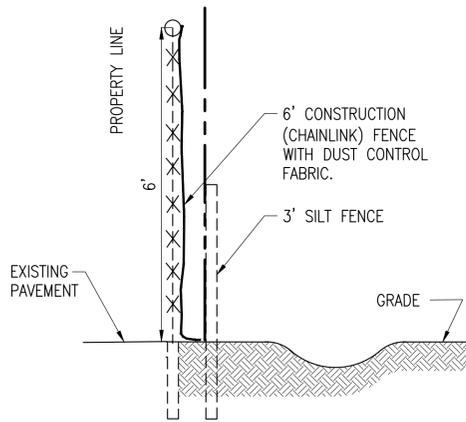
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ALTERNATIVE 1

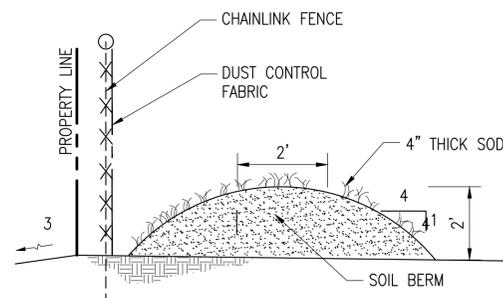
ALTERNATIVE 2

FENCE DETAIL WITH SEDIMENT TRAP



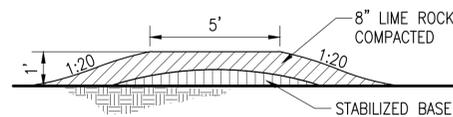
FENCE DETAIL WITH SEDIMENT TRAP

NOTE:  
ALL CONTROLS SHALL BE CONSISTENT WITH PERFORMANCE STANDARDS FOR EROSION AND SEDIMENT CONTROL AND STORMWATER TREATMENT SET FORTH IN S. 62-40.432, F.A.C., THE APPLICABLE STORMWATER OR ENVIRONMENTAL RESOURCE PERMITTING REQUIREMENTS OF THE DEPARTMENT OR A WATER MANAGEMENT DISTRICT, AND THE GUIDELINES CONTAINED IN THE FLORIDA DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT (DEP, 1988) AND ANY SUBSEQUENT AMENDMENTS.



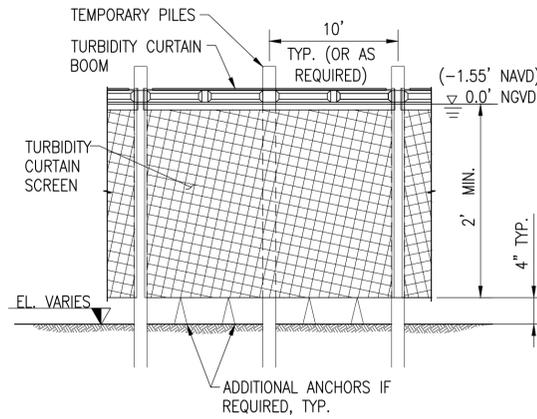
SEDIMENT CONTROL BARRIER

N.T.S.



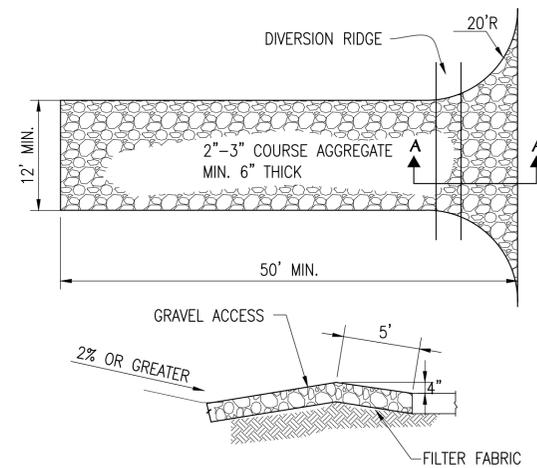
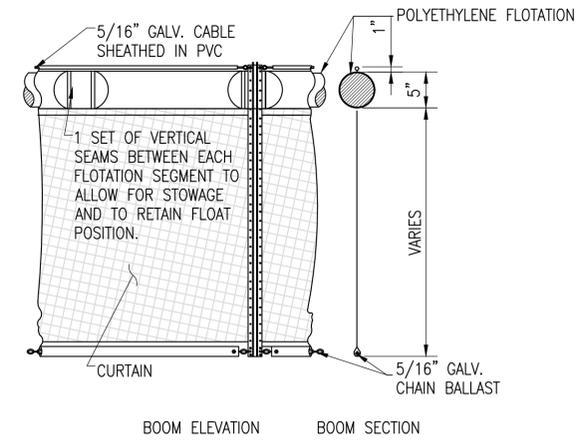
STONE BLANKET DETAIL

N.T.S.



TURBIDITY CURTAIN DETAILS

N.T.S.

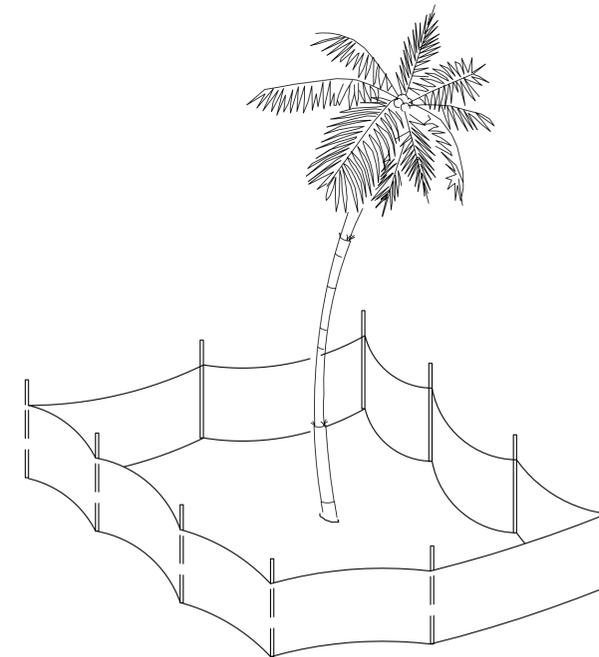


NOTE: DIVISION RIDGE REQUIRED WHERE GRADE EXCEEDS 2%

SECTION A-A

NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OF FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.



FENCE PROTECTION AROUND TREES

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CITY OF MIAMI

OFFICE OF CAPITAL IMPROVEMENTS  
444 S.W. 2nd Avenue, 8th Floor  
Miami, FL 33130

SEWELL PARK  
SHORELINE IMPROVEMENTS  
MIAMI, FL 33125

STORMWATER POLLUTION  
PREVENTION PLAN DETAILS

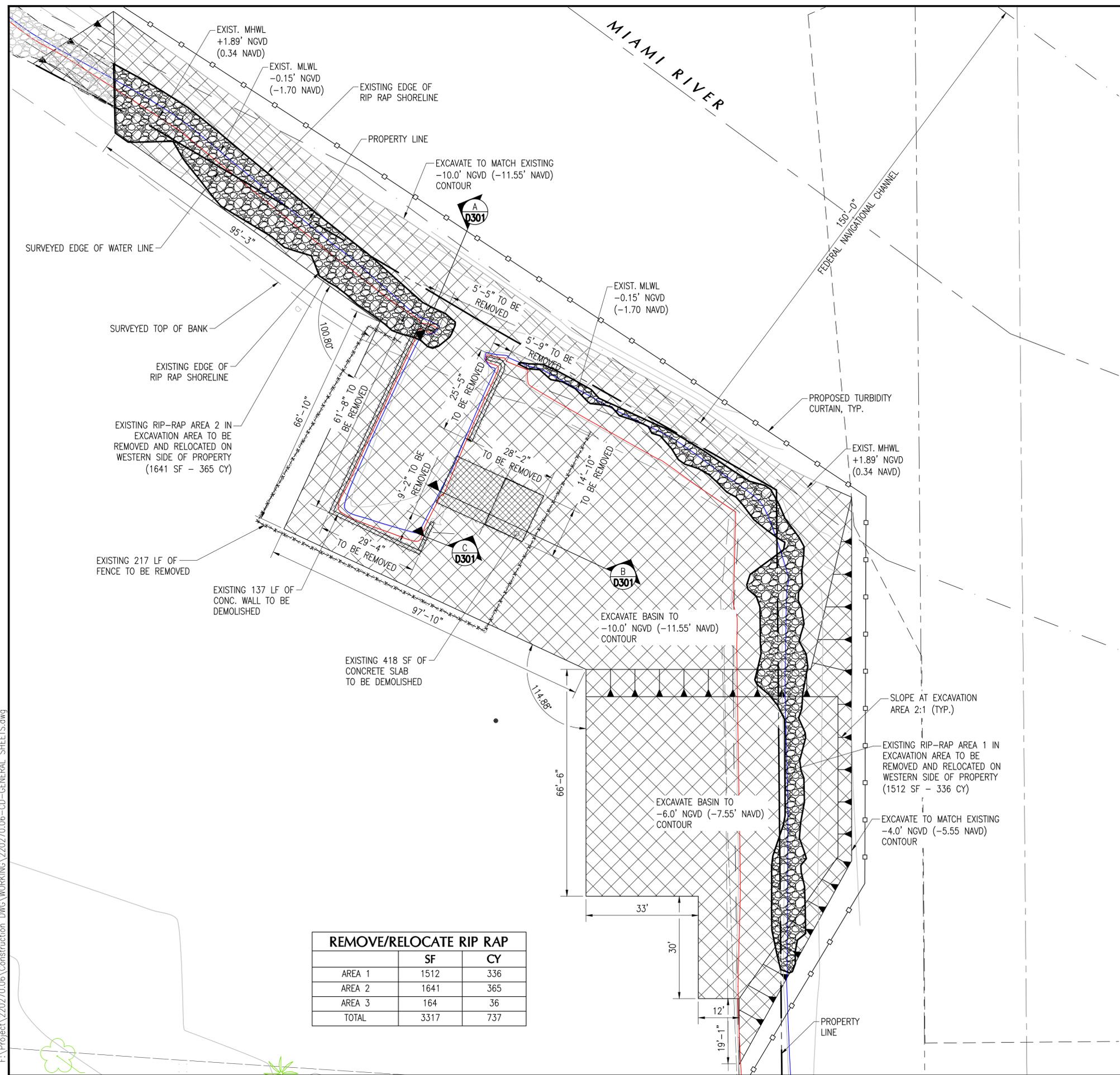
CONSULTANT SPACE



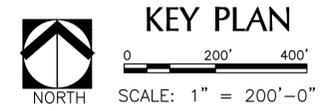
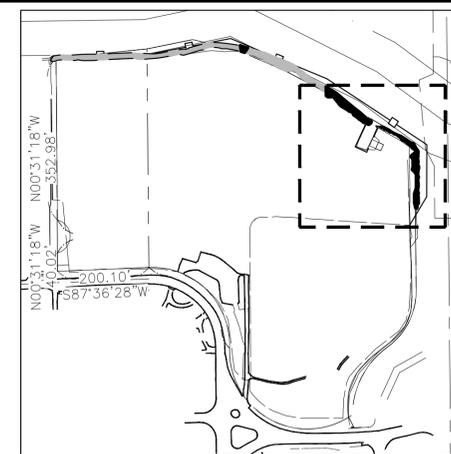
DATE: 10/13/2023  
NAME: R. HARVEY SASSO  
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| REMOVE/RELOCATE RIP RAP |      |     |
|-------------------------|------|-----|
|                         | SF   | CY  |
| AREA 1                  | 1512 | 336 |
| AREA 2                  | 1641 | 365 |
| AREA 3                  | 164  | 36  |
| TOTAL                   | 3317 | 737 |



- NOTES:**
- EXISTING UNCONSOLIDATED RIP RAP TO BE REMOVED AS NECESSARY.
  - TREES WITHIN PROPOSED BAYWALK FOOTPRINT TO BE REMOVED AND RELOCATED (BY OTHERS).
  - REMOVE ALL DOG WASTE STATIONS, BENCHES, AND FENCES WITHIN THE EXCAVATION AREA.

- RIP RAP NOTES:**
- REMOVE AND RELOCATE RIP RAP AT EAST SIDE OF PROPERTY ALONG THE PROPOSED FLOATING AND FIXED DOCK AREA TO THE WESTERN SIDE OF PROPERTY TO ACHIEVE A STABLE BASE.
  - ADD ADDITIONAL NEW 2'-3' Ø RIP RAP AT A CREST ELEVATION OF +4.0 NGVD WITH A CREST WIDTH OF 4'-0".
  - PLACE TO ACHIEVE A SLOPE OF 2:1 TO MATCH EXISTING GRADE.

| EXCAVATION OF CONC. RAMP |     |       |
|--------------------------|-----|-------|
|                          | SF  | CY    |
| ABOVE MHWL               | 183 | 4.54  |
| BELOW MHWL               | 235 | 5.83  |
| TOTAL                    | 418 | 10.37 |

| EXCAVATION OF CONC. WALL |     |       |
|--------------------------|-----|-------|
|                          | SF  | CY    |
| ABOVE MHWL               | 205 | 14.50 |
| BELOW MHWL               | 205 | 44.72 |
| TOTAL                    | 410 | 59.22 |

| EXCAVATION OF EARTHWORKS |        |       |
|--------------------------|--------|-------|
|                          | SF     | CY    |
| ABOVE MHWL               | 11,081 | 5,023 |
| BELOW MHWL               | 11,081 | 2,757 |
| TOTAL                    | 22,088 | 7,780 |



**PROPOSED DEMOLITION PLAN**  
 SCALE: 1" = 15'-0"

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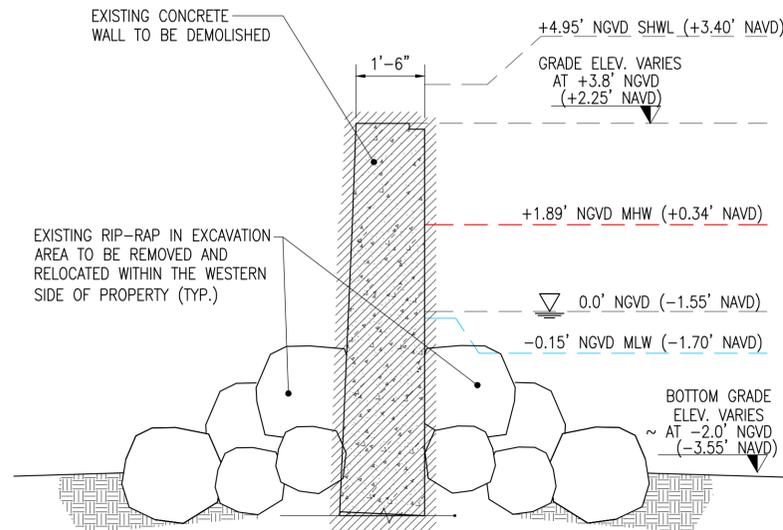
**SEWELL PARK**  
**SHORELINE IMPROVEMENTS**  
**MIAMI, FL 33125**  
**PROPOSED DEMOLITION PLAN**

CONSULTANT SPACE



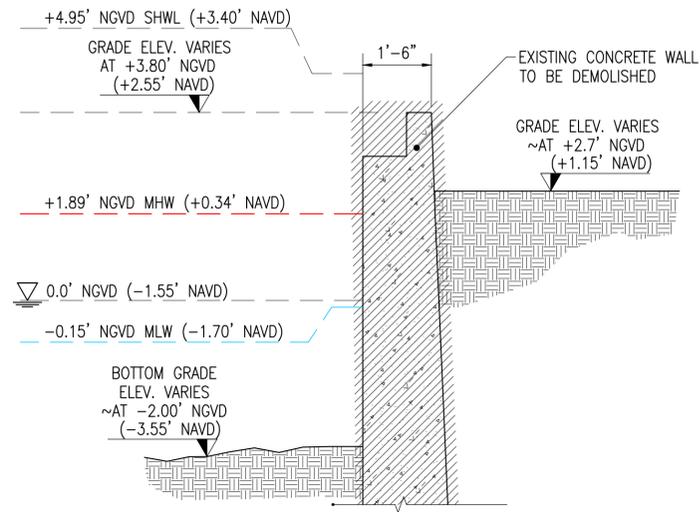
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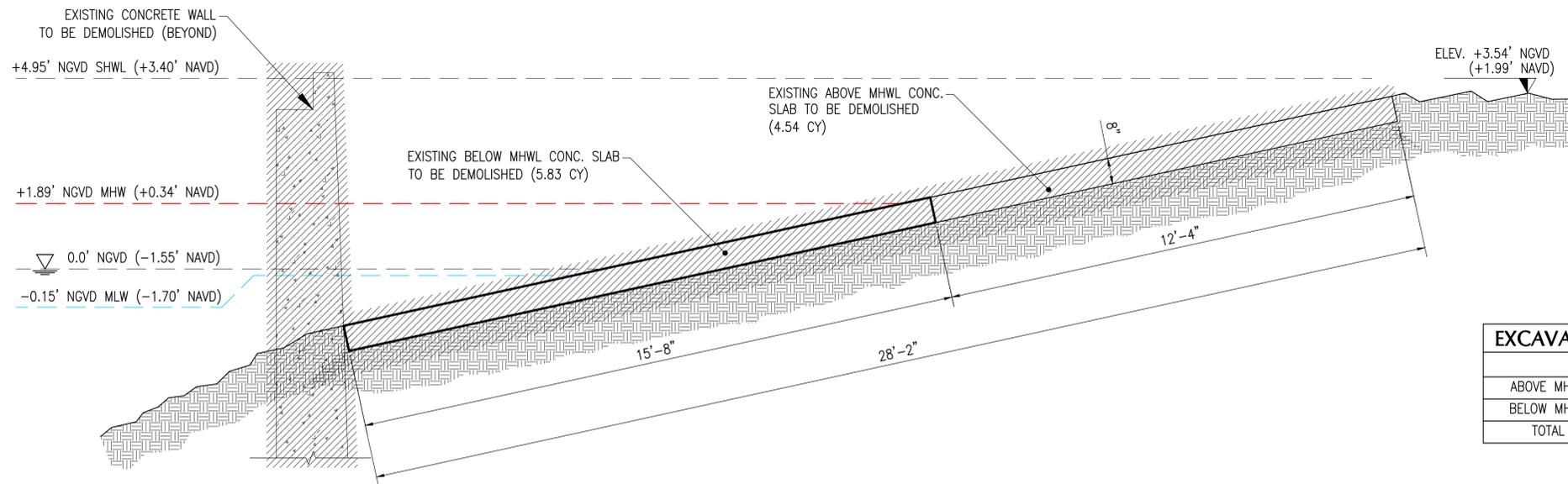
0 2' 4'  
SCALE: 1" = 2'-0"

**A SECTION**  
SCALE: 1" = 2'-0"



0 2' 4'  
SCALE: 1" = 2'-0"

**C SECTION**  
SCALE: 1" = 2'-0"



0 2' 4'  
SCALE: 1" = 2'-0"

**B SECTION**  
SCALE: 1" = 2'-0"

| EXCAVATION OF CONC. RAMP |     |       |
|--------------------------|-----|-------|
|                          | SF  | CY    |
| ABOVE MHWL               | 183 | 4.54  |
| BELOW MHWL               | 235 | 5.83  |
| TOTAL                    | 418 | 10.37 |

| EXCAVATION OF CONC. WALL |     |       |
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|                          | SF  | CY    |
| ABOVE MHWL               | 205 | 14.50 |
| BELOW MHWL               | 205 | 44.72 |
| TOTAL                    | 410 | 59.22 |

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PROPOSED DEMOLITION  
SECTIONS

CONSULTANT SPACE

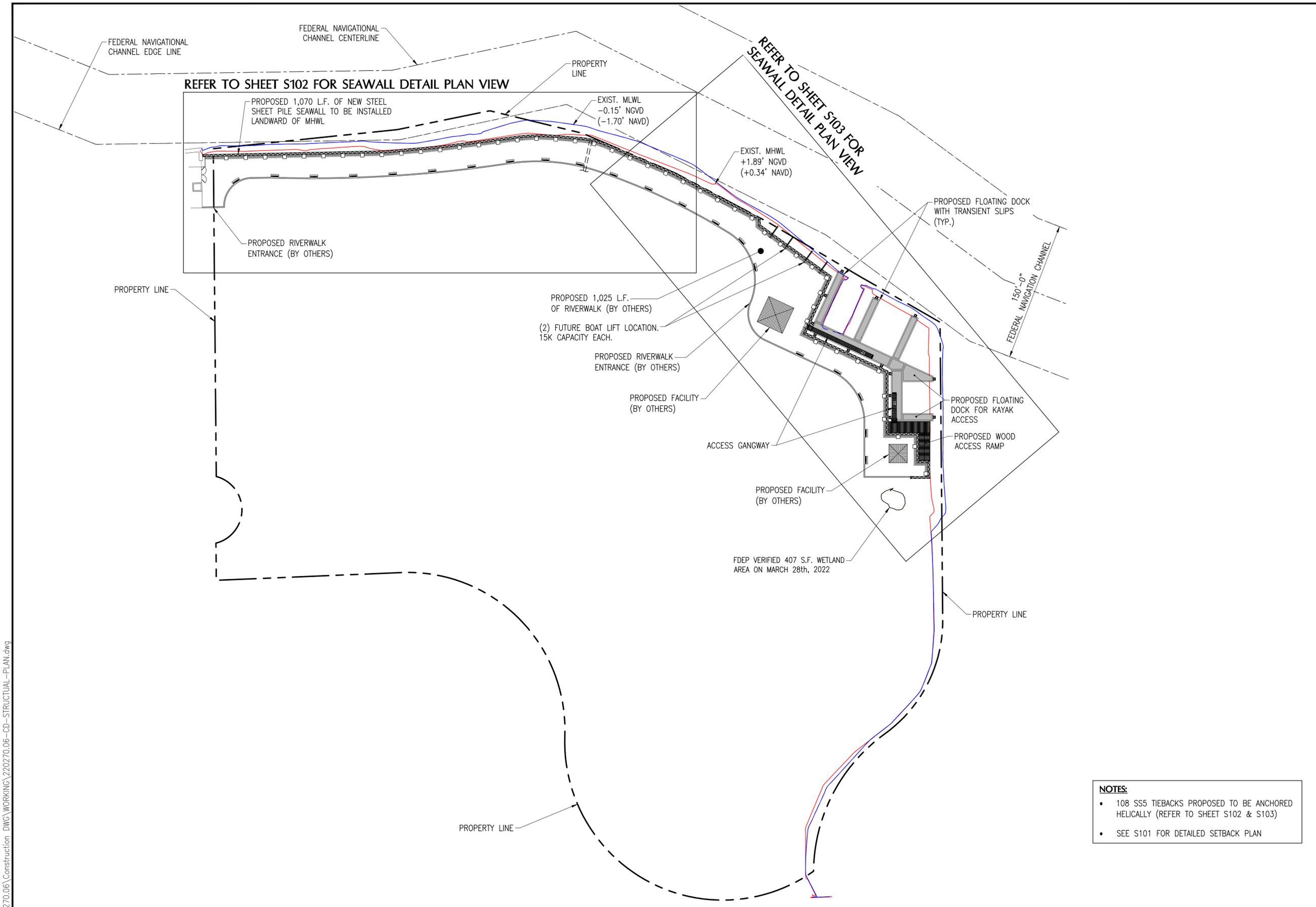


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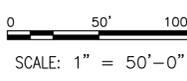
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REFER TO SHEET S102 FOR SEAWALL DETAIL PLAN VIEW

REFER TO SHEET S103 FOR SEAWALL DETAIL PLAN VIEW

- NOTES:**
- 108 SS5 TIEBACKS PROPOSED TO BE ANCHORED HELICALLY (REFER TO SHEET S102 & S103)
  - SEE S101 FOR DETAILED SETBACK PLAN



**PROPOSED OVERALL SITE PLAN**

SCALE: 1" = 50'-0"

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**PROPOSED OVERALL SITE PLAN**

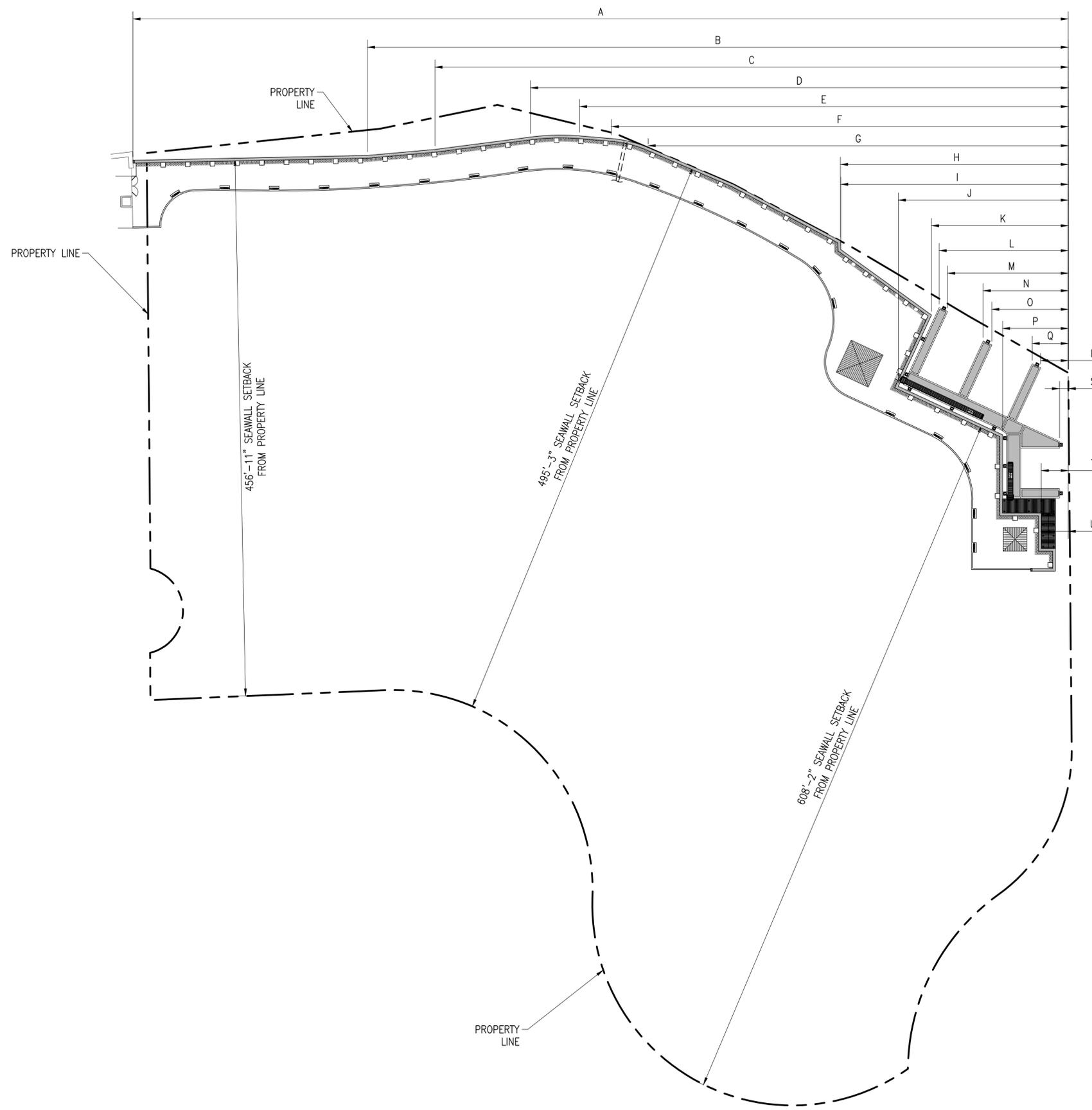
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0 50' 100'  
SCALE: 1" = 50'-0"



**PROPOSED SEAWALL SETBACK PLAN**  
SCALE: 1" = 50'-0"

| SETBACK TABLE |                                     |   |
|---------------|-------------------------------------|---|
| SETBACK       | DISTANCE FROM EASTERN PROPERTY LINE | SETBACK DESCRIPTION   |
| A             | 796'-4"                             | SETBACK TO PROPOSED STEEL SHEET PILE WALL END   |
| B             | 596'-8"                             | SETBACK TO PROPOSED STEEL SHEET PILE WALL AT 1825 PARCEL                                      |
| C             | 539'-4"                             | SETBACK TO PROPOSED STEEL SHEET PILE WALL INFLECTION POINT                                    |
| D             | 457'-11"                            | SETBACK TO PROPOSED STEEL SHEET PILE WALL CURB START POINT                                    |
| E             | 416'-2"                             | SETBACK TO PROPOSED STEEL SHEET PILE WALL CURB TERMINATION POINT                              |
| F             | 389'-0"                             | SETBACK TO PROPOSED STEEL SHEET PILE CURB START POINT   |
| G             | 357'-9"                             | SETBACK TO PROPOSED STEEL SHEET PILE WALL CURB TERMINATION POINT                              |
| H             | 194'-0"                             | SETBACK TO PROPOSED STEEL SHEET PILE WALL INFLECTION POINT                                    |
| I             | 193'-10"                            | SETBACK TO PROPOSED STEEL SHEET PILE WALL INFLECTION POINT EDGE OF PROPOSED KAYAK LAUNCH RAMP |
| J             | 144'-8"                             | SETBACK TO PROPOSED STEEL SHEET PILE WALL INFLECTION POINT                                    |
| K             | 116'-6"                             | SETBACK TO PROPOSED STEEL SHEET PILE WALL INFLECTION POINT                                    |
| L             | 109'-11"                            | SETBACK TO PROPOSED FLOATING DOCK PIER 'A' WEST EDGE  |
| M             | 102'-8"                             | SETBACK TO PROPOSED FLOATING DOCK PIER 'A' EAST EDGE  |
| N             | 72'-5"                              | SETBACK TO PROPOSED FLOATING DOCK PIER 'B' WEST EDGE  |
| O             | 65'-2"                              | SETBACK TO PROPOSED FLOATING DOCK PIER 'B' EAST EDGE  |
| P             | 55'-11"                             | SETBACK TO PROPOSED STEEL SHEET PILE WALL INFLECTION POINT                                    |
| Q             | 30'-9"                              | SETBACK TO PROPOSED FLOATING DOCK PIER 'C' WEST EDGE  |
| R             | 23'-5"                              | SETBACK TO PROPOSED FLOATING DOCK PIER 'C' EAST EDGE  |
| S             | 7'-6"                               | SETBACK TO PROPOSED FLOATING DOCK PIER 'D' & PIER 'E' EAST EDGE                               |
| T             | 22'-11"                             | SETBACK TO PROPOSED STEEL SHEET PILE WALL INFLECTION POINT                                    |
| U             | 10'-11"                             | SETBACK TO PROPOSED STEEL SHEET PILE WALL INFLECTION POINT                                    |

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**PROPOSED SEAWALL SETBACK PLAN**

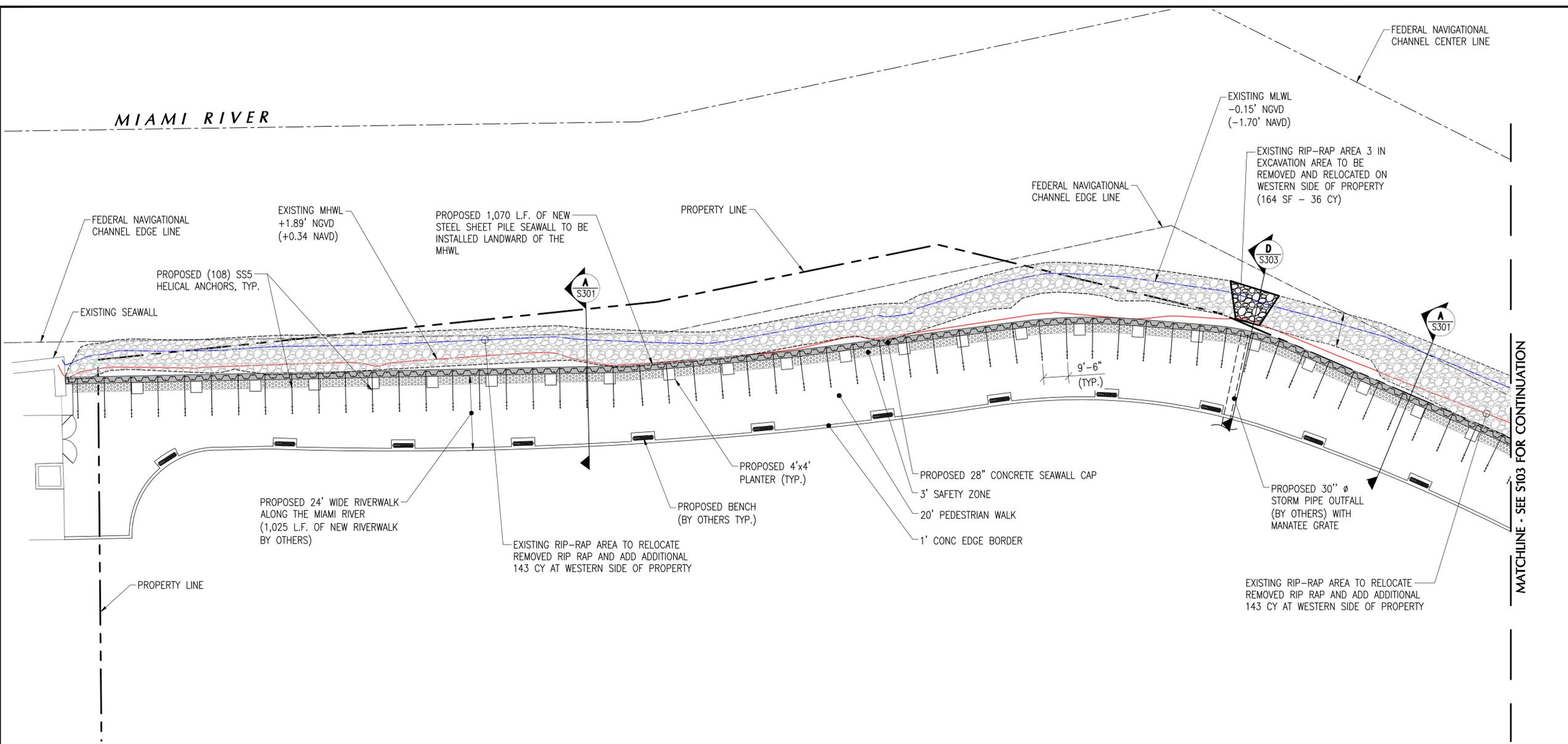
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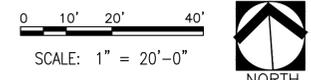
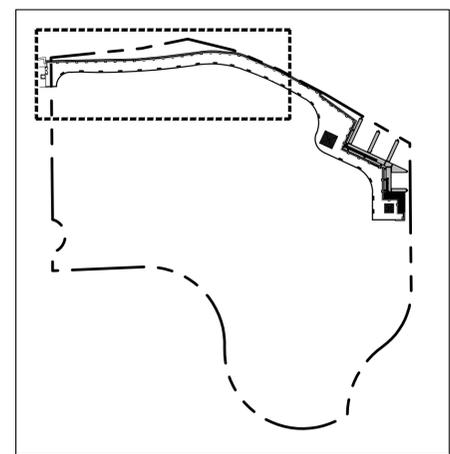
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| REMOVE/RELOCATE RIP RAP - REQUIRED RIP RAP    |      |     |
|---|------|-----|
|   | SF   | CY  |
| AREA 1  | 1512 | 336 |
| AREA 2  | 1641 | 365 |
| AREA 3  | 164  | 36  |
| TOTAL REMOVE/RELOCATE                         | 3317 | 737 |
| ADDITIONAL RIP RAP REQUIRED TO ACHIEVE DESIGN | -    | 143 |

- RIP RAP NOTES:**
1. REMOVE AND RELOCATE RIP RAP AT EAST SIDE OF PROPERTY ALONG THE PROPOSED FLOATING AND FIXED DOCK AREA TO THE WESTERN SIDE OF PROPERTY TO ACHIEVE A STABLE BASE.
  2. ADD ADDITIONAL NEW 2'-3' Ø RIP RAP AT A CREST ELEVATION OF +4.0 NGVD WITH A CREST WIDTH OF 4'-0".
  3. PLACE TO ACHIEVE A SLOPE OF 2:1 TO MATCH EXISTING GRADE.



**PROPOSED SITE PLAN - 1**

SCALE: 1" = 20'-0"



**KEY PLAN**

SCALE: 1" = 200'-0"

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**PROPOSED SITE PLAN - 1**

CONSULTANT SPACE

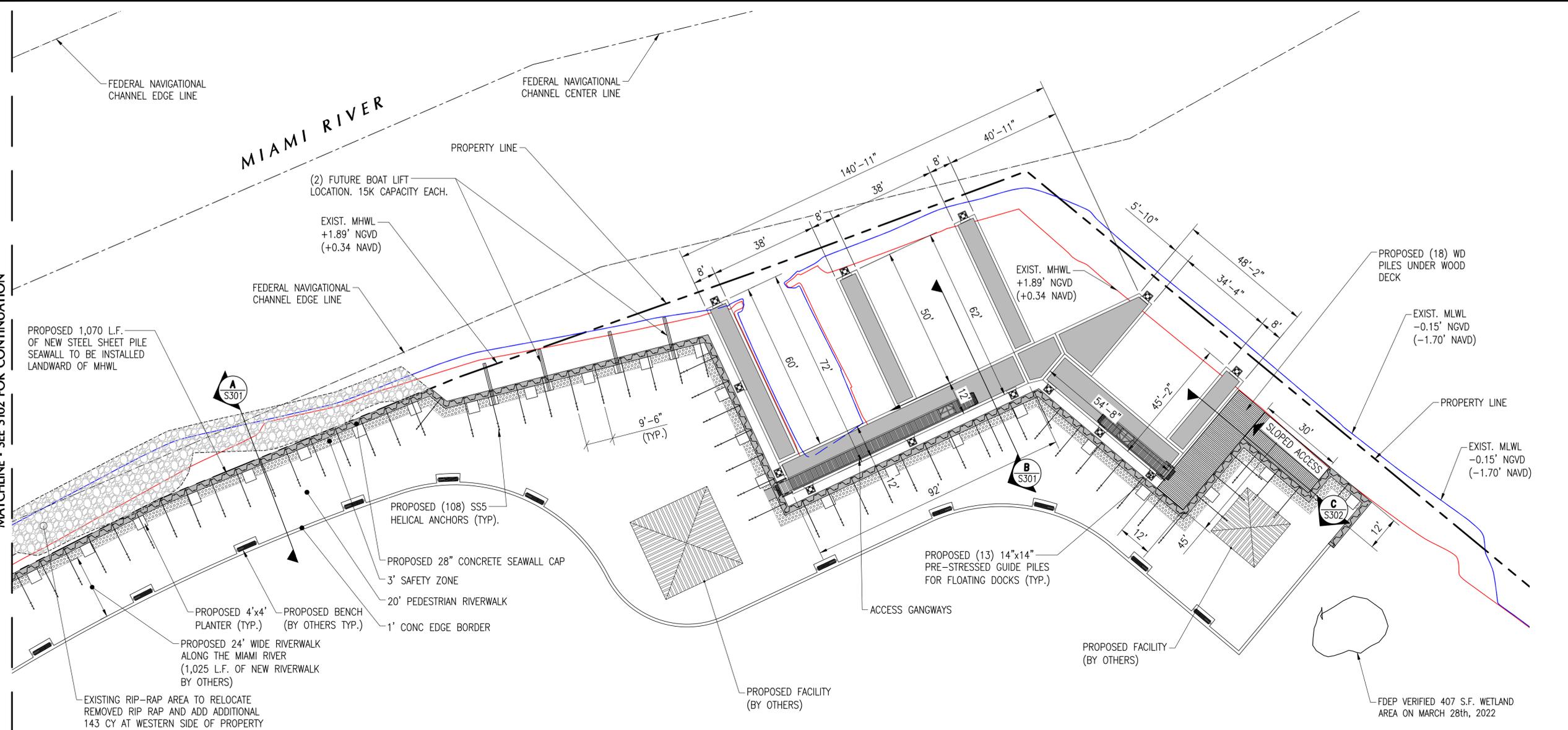
**COASTAL SYSTEMS INTERNATIONAL**

R. HARVEY SASSO  
LICENSE No. 35616  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

DATE: 10/13/2023  
NAME: R. HARVEY SASSO  
FL. REGISTRATION No. 35616

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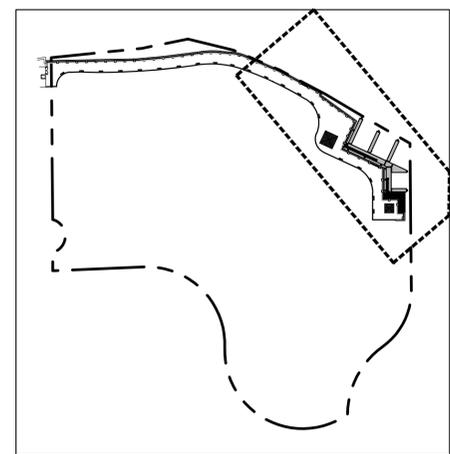
MATCHLINE - SEE S102 FOR CONTINUATION



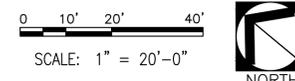
| REMOVE/RELOCATE RIP RAP - REQUIRED RIP RAP    | SF   | CY  |
|---|------|-----|
| AREA 1  | 1512 | 336 |
| AREA 2  | 1641 | 365 |
| AREA 3  | 164  | 36  |
| TOTAL REMOVE/RELOCATE                         | 3317 | 737 |
| ADDITIONAL RIP RAP REQUIRED TO ACHIEVE DESIGN | -    | 143 |

- RIP RAP NOTES:**
1. REMOVE AND RELOCATE RIP RAP AT EAST SIDE OF PROPERTY ALONG THE PROPOSED FLOATING AND FIXED DOCK AREA TO THE WESTERN SIDE OF PROPERTY TO ACHIEVE A STABLE BASE.
  2. ADD ADDITIONAL NEW 2'-3' Ø RIP RAP AT A CREST ELEVATION OF +4.0 NGVD WITH A CREST WIDTH OF 4'-0".
  3. PLACE TO ACHIEVE A SLOPE OF 2:1 TO MATCH EXISTING GRADE.

|                | OVER WATER (SF) | IN GROUND (S.F.) |
|----------------|-----------------|------------------|
| FLOATING DOCKS | 3918            | -                |
| CONCRETE PILES | -               | 23               |
| FIXED DOCK     | 900             | -                |
| WOOD PILES     | -               | 14               |
| TOTAL          | 4818            | 37               |



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**PROPOSED SITE PLAN - 2**  
SCALE: 1" = 20'-0"

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PROPOSED SITE PLAN - 2

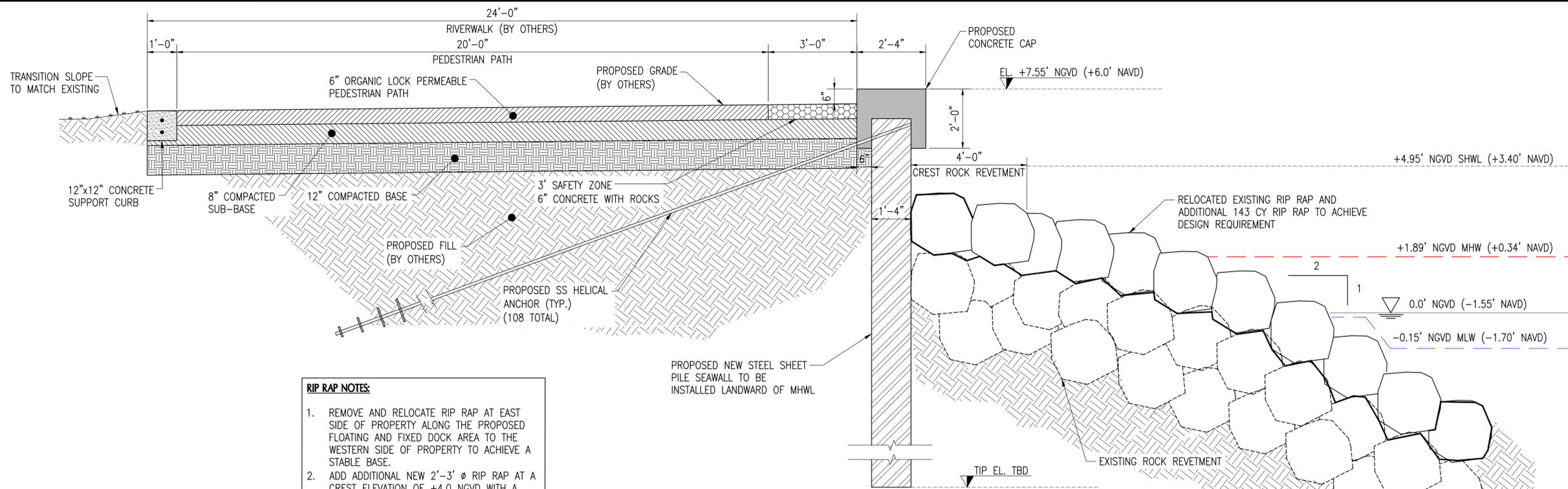
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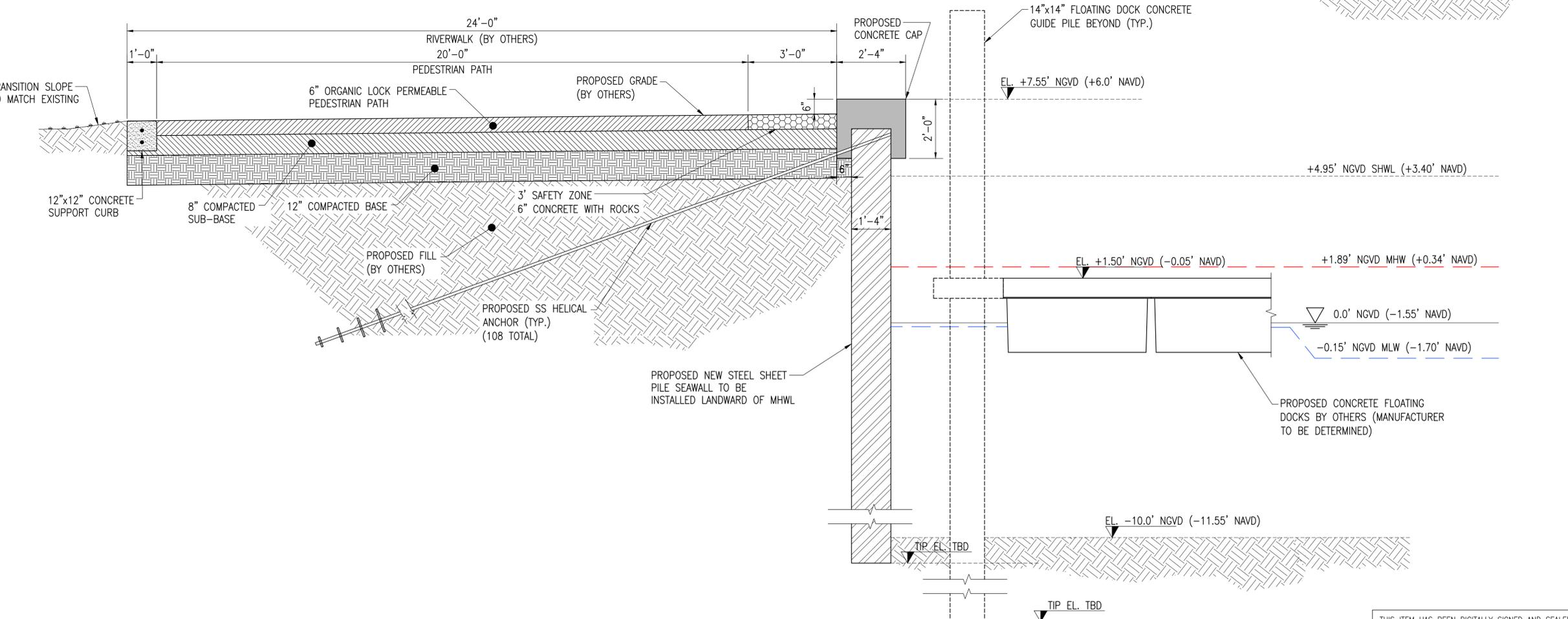
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- RIP RAP NOTES:**
1. REMOVE AND RELOCATE RIP RAP AT EAST SIDE OF PROPERTY ALONG THE PROPOSED FLOATING AND FIXED DOCK AREA TO THE WESTERN SIDE OF PROPERTY TO ACHIEVE A STABLE BASE.
  2. ADD ADDITIONAL NEW 2'-3' Ø RIP RAP AT A CREST ELEVATION OF +4.0 NGVD WITH A CREST WIDTH OF 4'-0".
  3. PLACE TO ACHIEVE A SLOPE OF 2:1 TO MATCH EXISTING GRADE.

**A SECTION THRU SEAWALL**  
SCALE: 1" = 2'-0"



**B SEAWALL SECTION THRU FLOATING DOCK**  
SCALE: 1" = 2'-0"

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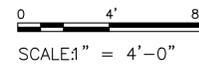
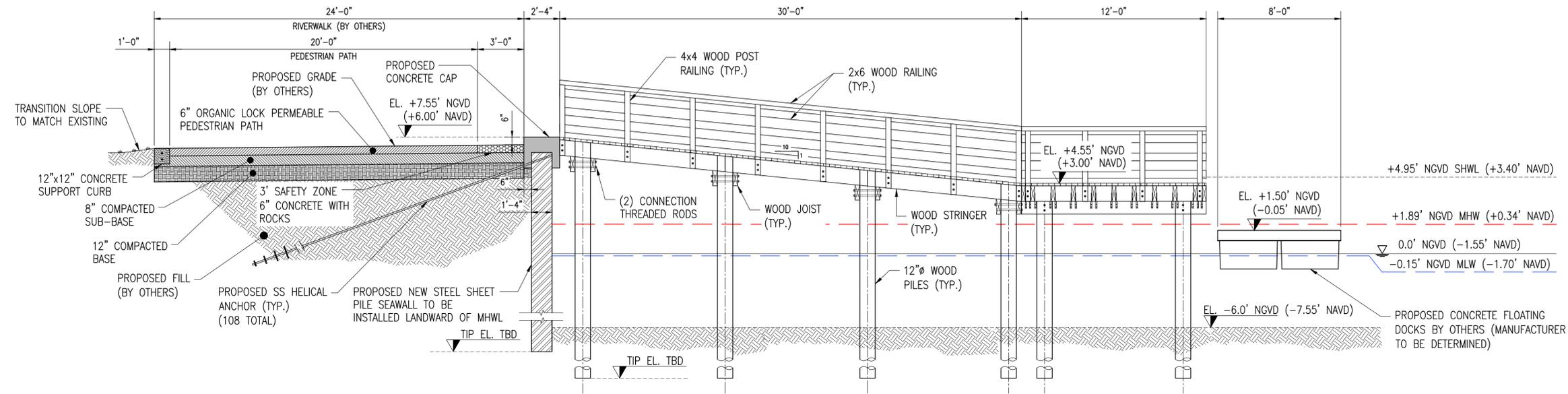
PROPOSED SHORELINE SECTIONS  
1



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**C** SECTION THRU SEAWALL, FIXED DOCKS, & FLOATING DOCKS  
SCALE: 1" = 4'-0"

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PROPOSED SHORELINE SECTIONS  
2

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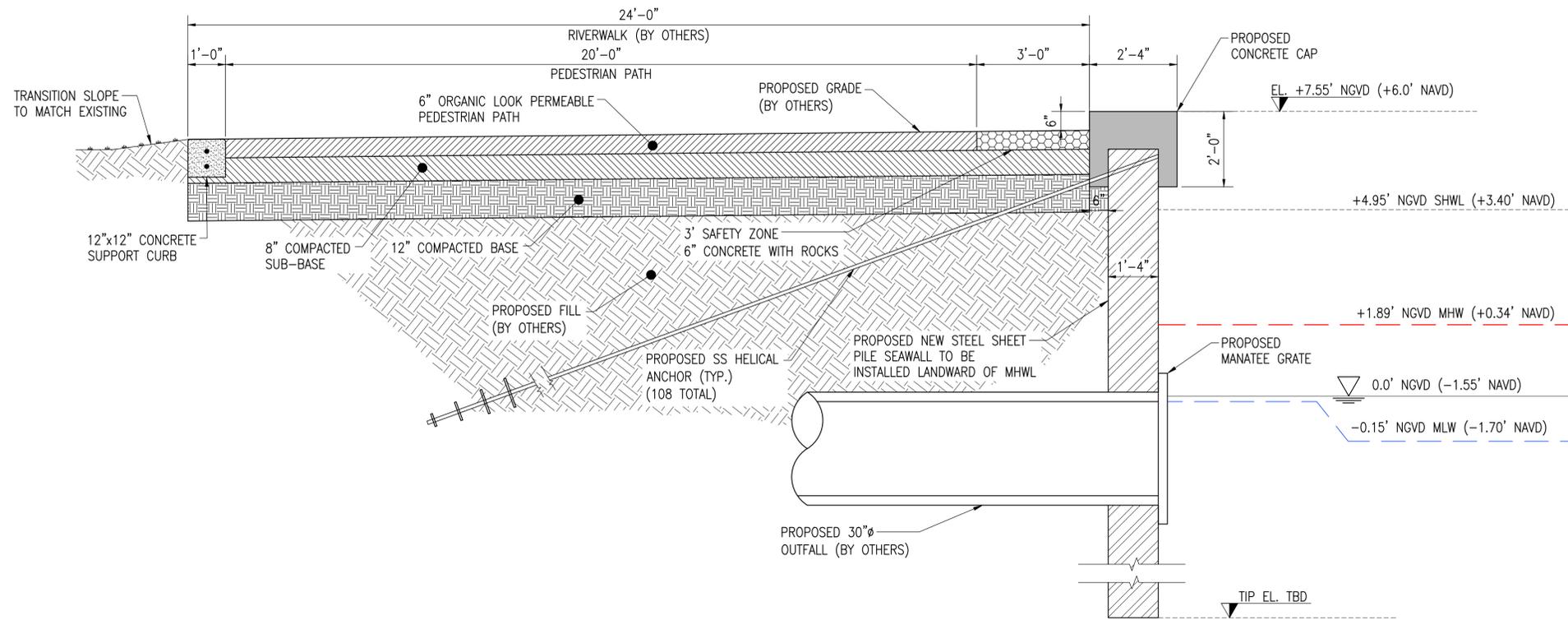


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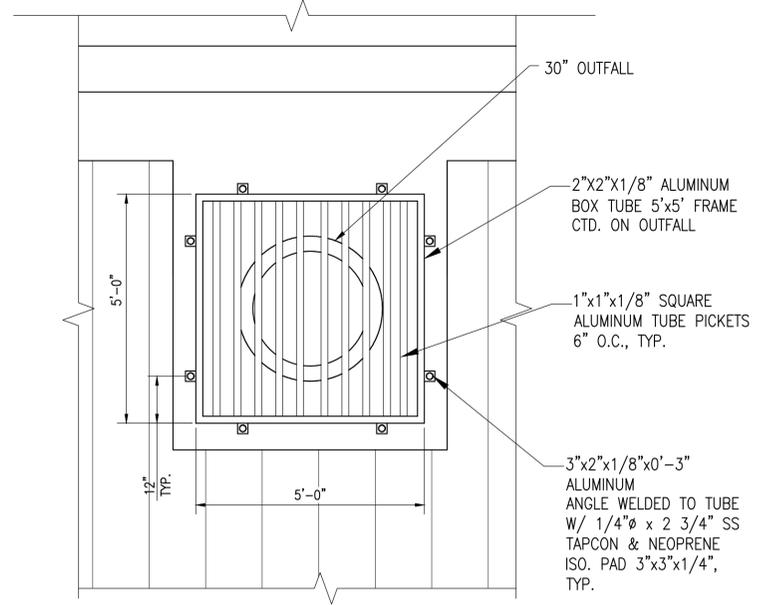
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0 2' 4'  
SCALE: 1" = 2'-0"

**D SECTION THRU OUTFALL**  
SCALE: 1" = 2'-0"

**NOTES:**  
1. 30"Ø OUTFALL LOCATION TO BE COORDINATED WITH UPLAND DESIGNERS.



0 2' 4'  
SCALE: 1" = 2'-0"

**1 TYPICAL OUTFALL ELEVATION DETAIL**  
SCALE: 1" = 2'-0"

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PROPOSED SHORELINE SECTIONS  
3



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