



**GENERAL NOTES:**

1. THE WORK CONSISTS OF FURNISHING ALL CONSTRUCTION, LABOR, EQUIPMENT AND MATERIALS AND PERFORMING ALL OPERATIONS IN CONNECTION WITH THE PARKING 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 SURVEY BY J. BONFILL & ASSOCIATES, INC. ON 4/25/17.
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 AMERICAN VERTICAL DATUM OF 1983 (NAVD 83).

**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.

**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.

**INSPECTION:**

1. ALL INSPECTIONS WILL BE DONE BY THE ENGINEER.
2. FOR SITE MEETINGS WITH THE ENGINEER OR FOR FIELD OBSERVATION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF 24 HOURS PRIOR TO THE INSPECTION OR MEETING.

**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 90% 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.

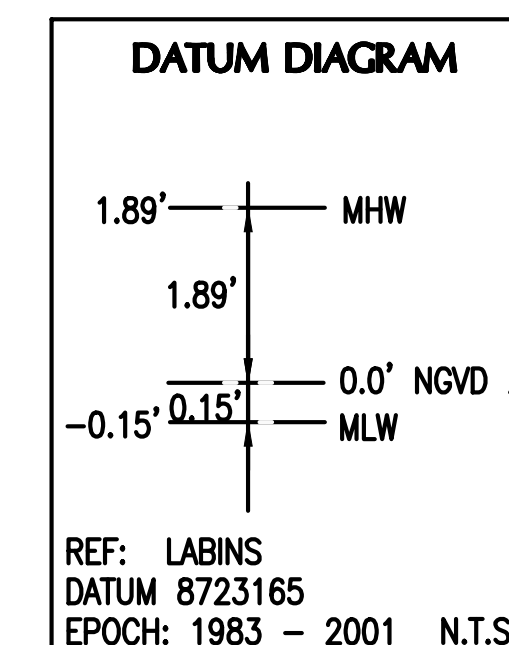
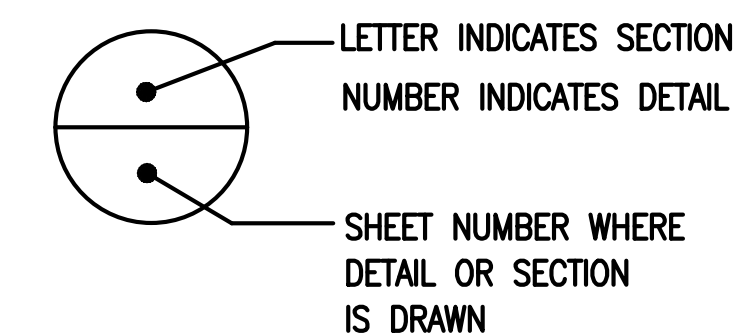
**PAVING NOTES:**

1. ALL REQUIRED DENSITY AND L.B.R. TEST RESULTS FOR LIMEROCK SHALL BE PROVIDED TO AND APPROVED BY THE ENGINEER OF RECORD AND THE PERMITTING AGENCIES PRIOR TO PLACING ASPHALT.
2. ALL EXISTING PAVEMENT CUT OR DAMAGED BY CONSTRUCTION SHALL BE PROPERLY RESTORED AT CONTRACTOR'S EXPENSE.
3. BASE COURSE SHALL BE CRUSHED LIMEROCK IN ACCORDANCE WITH FDOT SPECIFICATION 200.
4. ALL LIMEROCK BASE UNDER PAVED AREAS SHALL HAVE A MINIMUM L.B.R. VALUE OF 100, AND SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
5. LIMEROCK BASE MATERIAL SHALL BE IN THE COMPACTION THICKNESS SHOWN ON THE PLANS AND SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T180-C.
6. LIMEROCK BASE MATERIAL SHALL BE PLACED IN MAXIMUM 6" LIFTS. BASES GREATER THAN 6" SHALL BE PLACED IN TWO OR MORE EQUAL LIFTS.
7. THE FINISHED SURFACE OF THE PAVEMENT SHALL NOT VARY MORE THAN 1/8" FROM THE EXISTING. ANY IRREGULARITIES EXCEEDING THIS LIMIT SHALL BE CORRECTED.
8. DENSITY TESTS SHALL BE TAKEN BY AN INDEPENDENT TESTING LABORATORY AS DIRECTED BY THE ENGINEER AND THE PERMIT AGENCY.

**ABBREVIATIONS**

ALUM. _____ ALUMINUM	HDG. _____ HOT DIPPED GALVANIZED
B. _____ BOTTOM	HKS. _____ HOOKS
APPROX. _____ APPROXIMATE	I.J. _____ ISOLATION JOINT
CJP _____ 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	NGVD _____ NAT'L GEODETIC VERTICAL DATUM
CTD _____ CENTERED	OA _____ OVERALL
DIA./Ø _____ DIAMETER	O.C. _____ ON CENTER
EA. _____ EACH	P.E. _____ PROFESSIONAL ENGINEER
E.F. _____ EACH FACE	PSF _____ POUNDS PER SQUARE FOOT
E.J. _____ EXPANSION JOINT	PSI _____ POUNDS PER SQUARE INCH
EOR _____ ENGINEER OF RECORD	SS _____ STAINLESS STEEL
ELEV. _____ ELEVATION	STL. _____ STEEL
EW _____ EACH WAY	T _____ TOP
EXIST./EX. _____ EXISTING	T&B _____ TOP & BOTTOM
FRP _____ FIBER REINFORCED PLASTIC	TYP. _____ TYPICAL
GALV. _____ GALVANIZED	U.N.O. _____ UNLESS NOTED OTHERWISE

**SECTION DETAIL LABEL**



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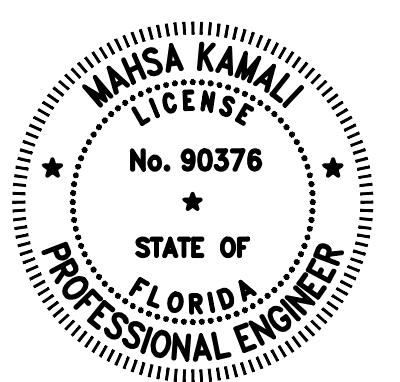


SEWELL PARK  
SHORELINE IMPROVEMENTS  
MIAMI, FL 33125

GENERAL NOTES

SHEET TITLE:

CONSULTANT SPACE



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NAME: .  
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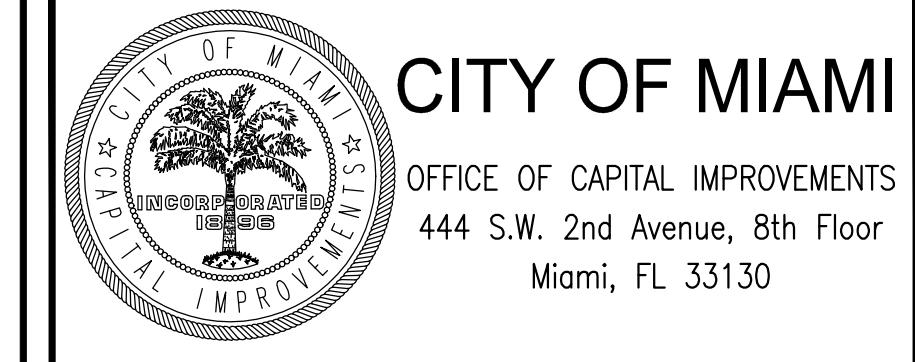
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SCALE: 1" = 60'

 **EXISTING SITE CONDITIONS**  
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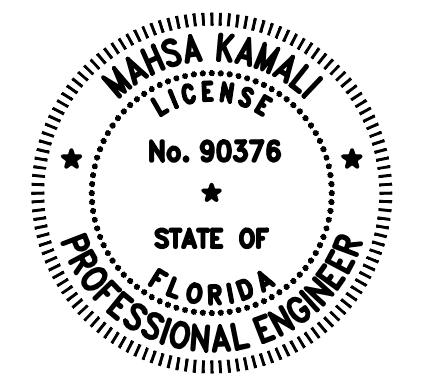
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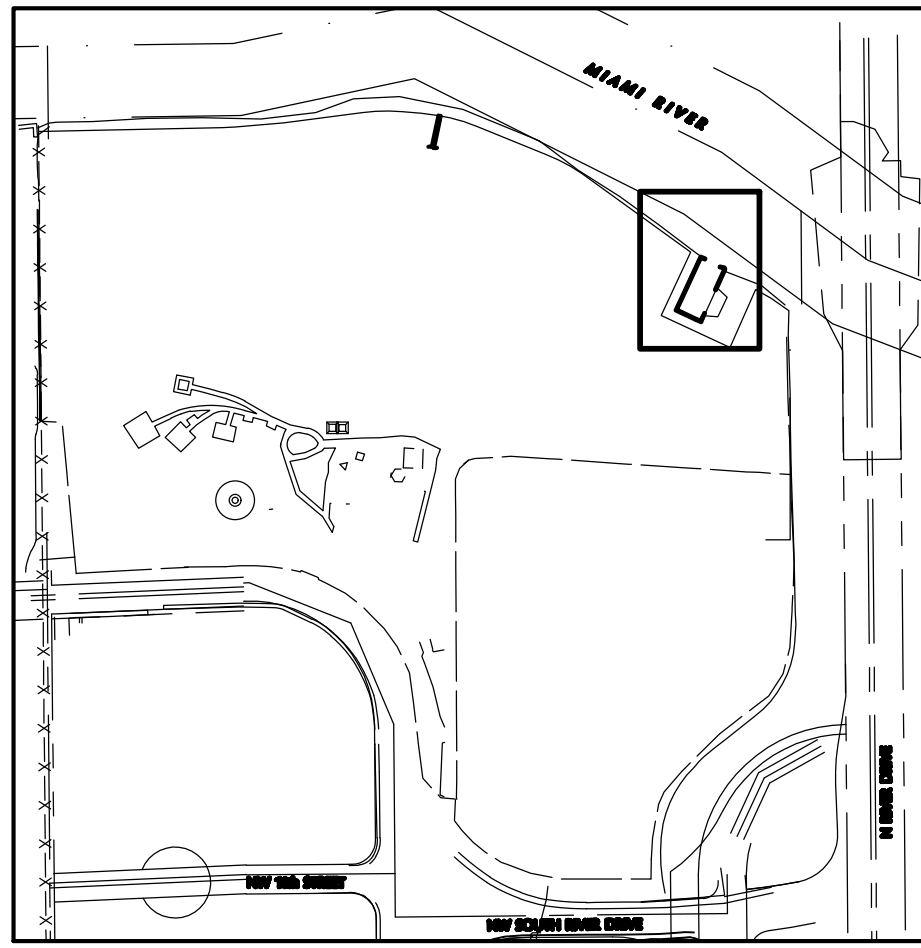
**EXISTING SITE CONDITIONS**

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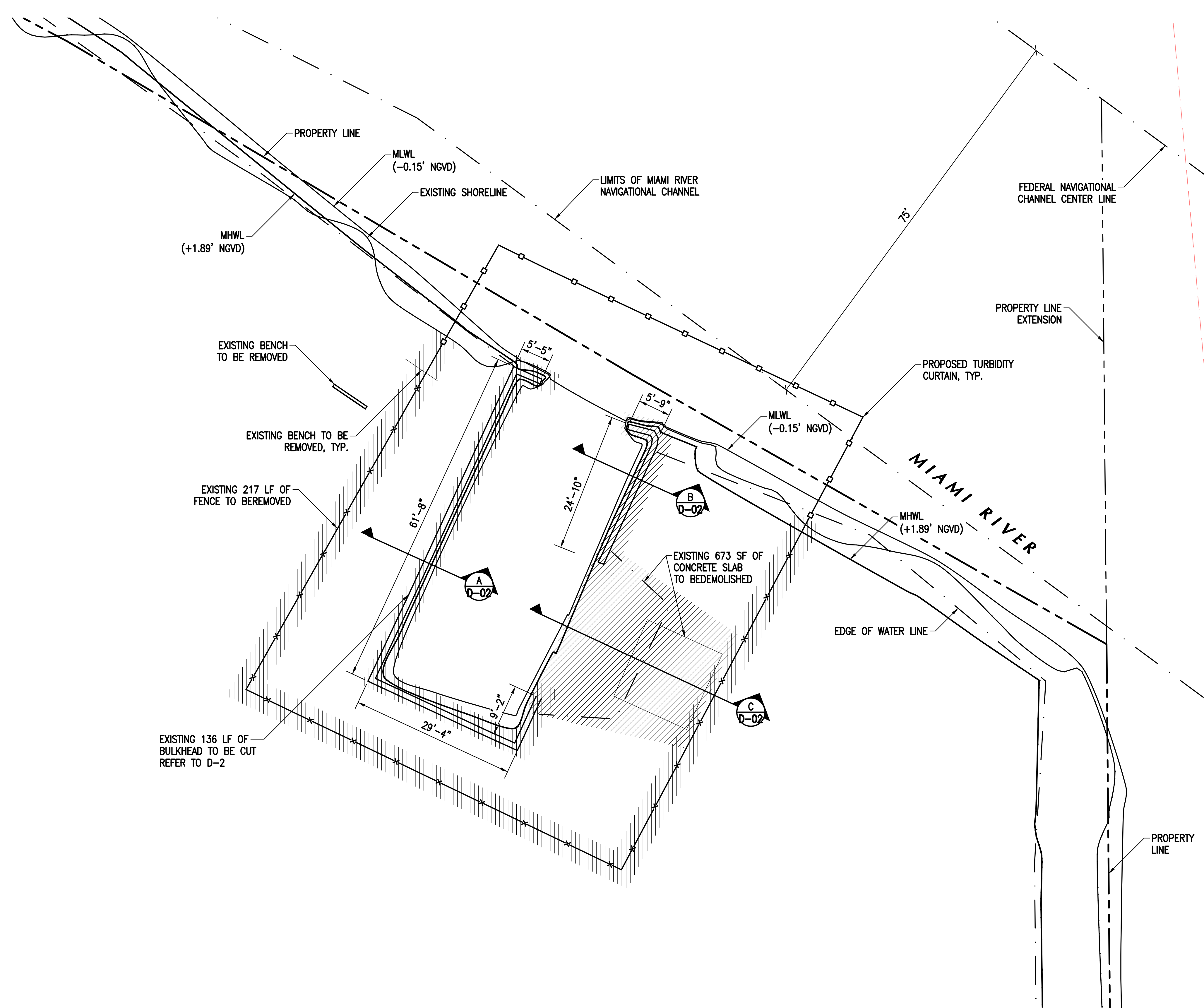
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**KEY PLAN**

0 200' 400'

SCALE: 1" = 200'-0"



- NOTES**
- EXISTING RIP RAP ALONG SHORELINE TO BE REARRANGED TO FACILITATE SHEET PILE INSTALLATION.
  - TREES WITHIN PROPOSED BAYWALK FOOTPRINT TO BE REMOVED OR RELOCATED

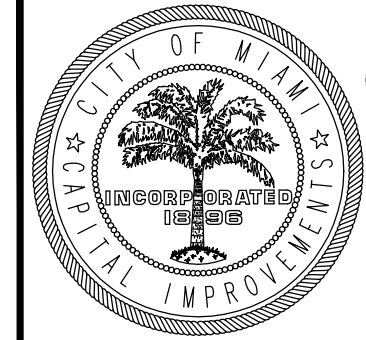
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**PROPOSED DEMOLITION PLAN**

SCALE: 1" = 10'

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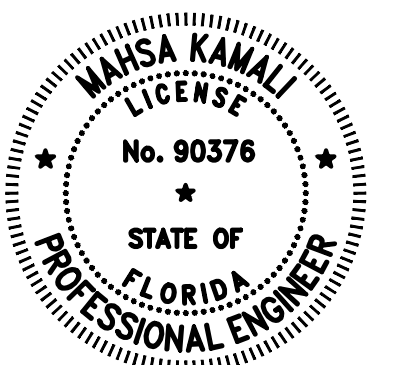
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**PROPOSED DEMOLITION PLAN**

CONSULTANT SPACE



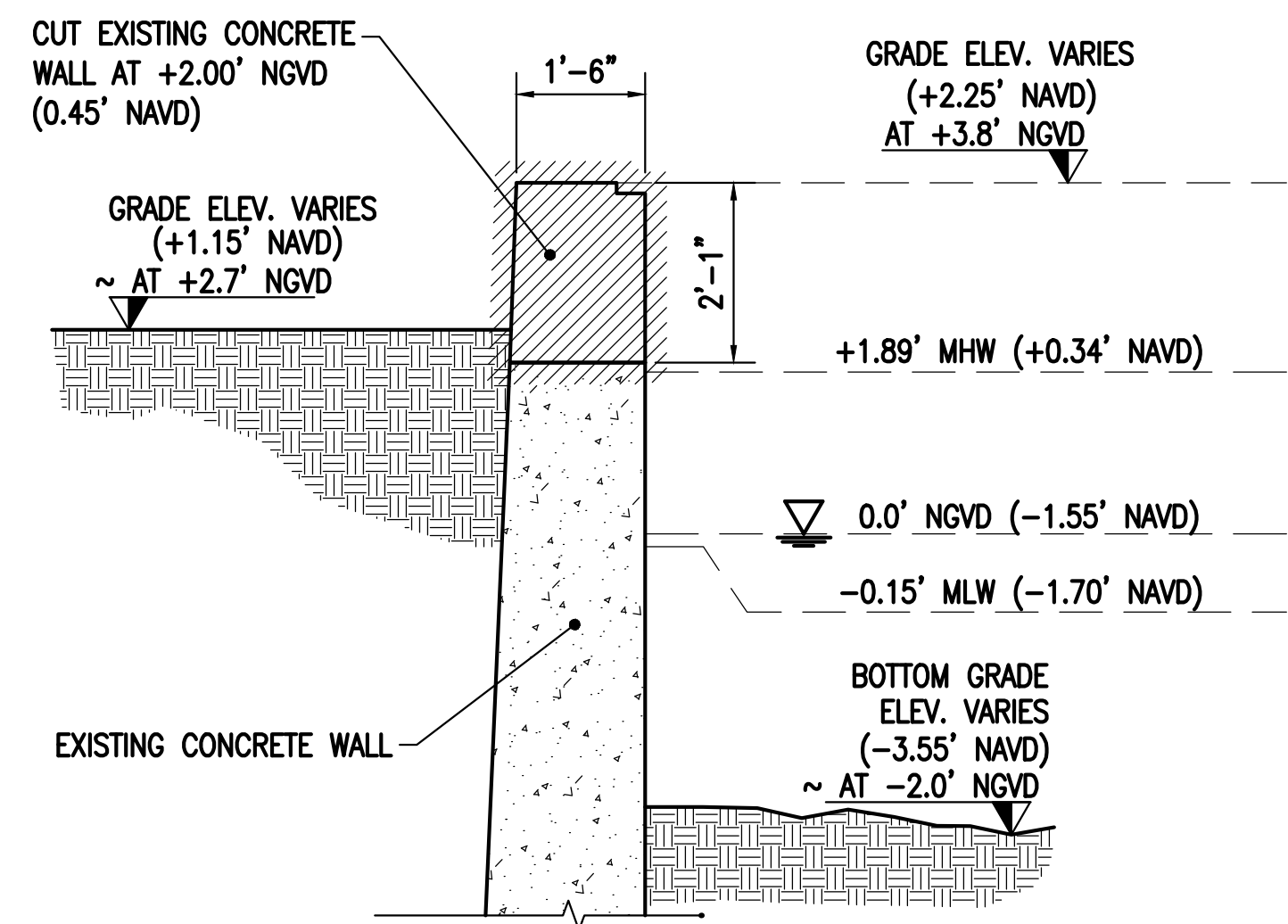
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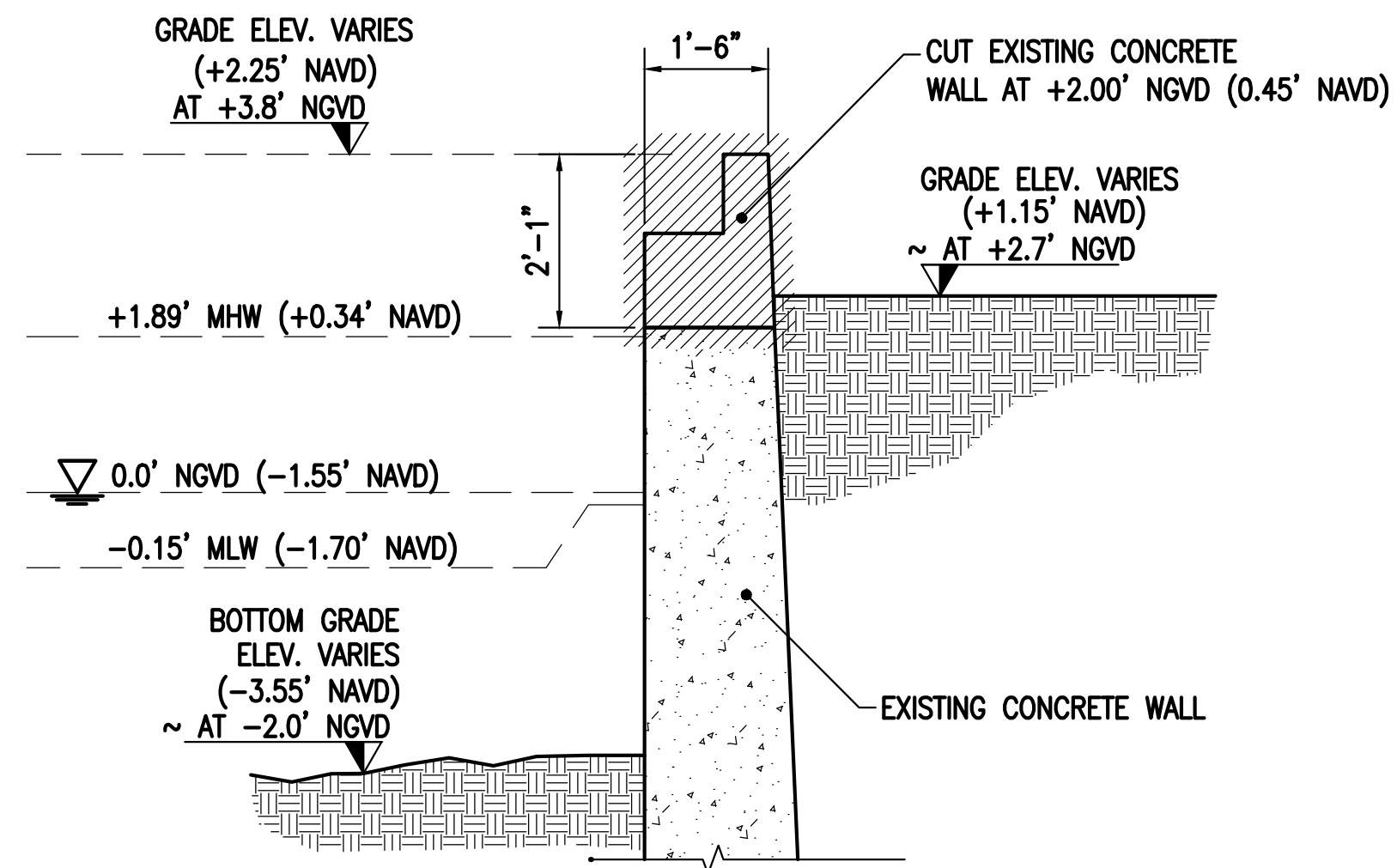
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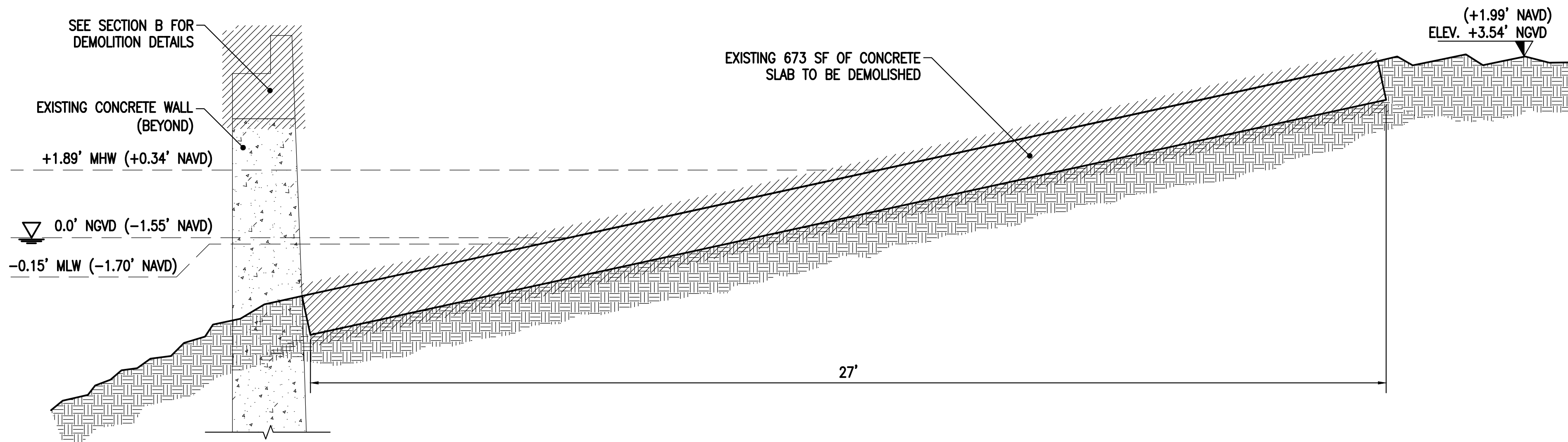
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SCALE: 1" = 2'

**A SECTION**  
1" = 2'



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

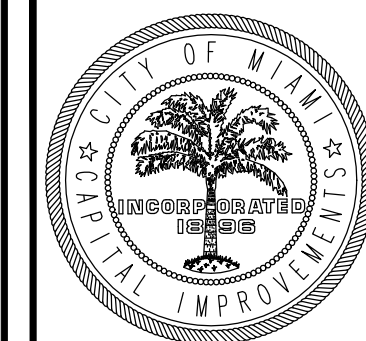
**B SECTION**  
1" = 2'



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

**C SECTION**  
1" = 2'

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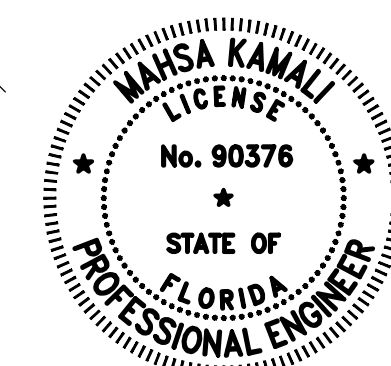


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**DEMOLITION SECTIONS**

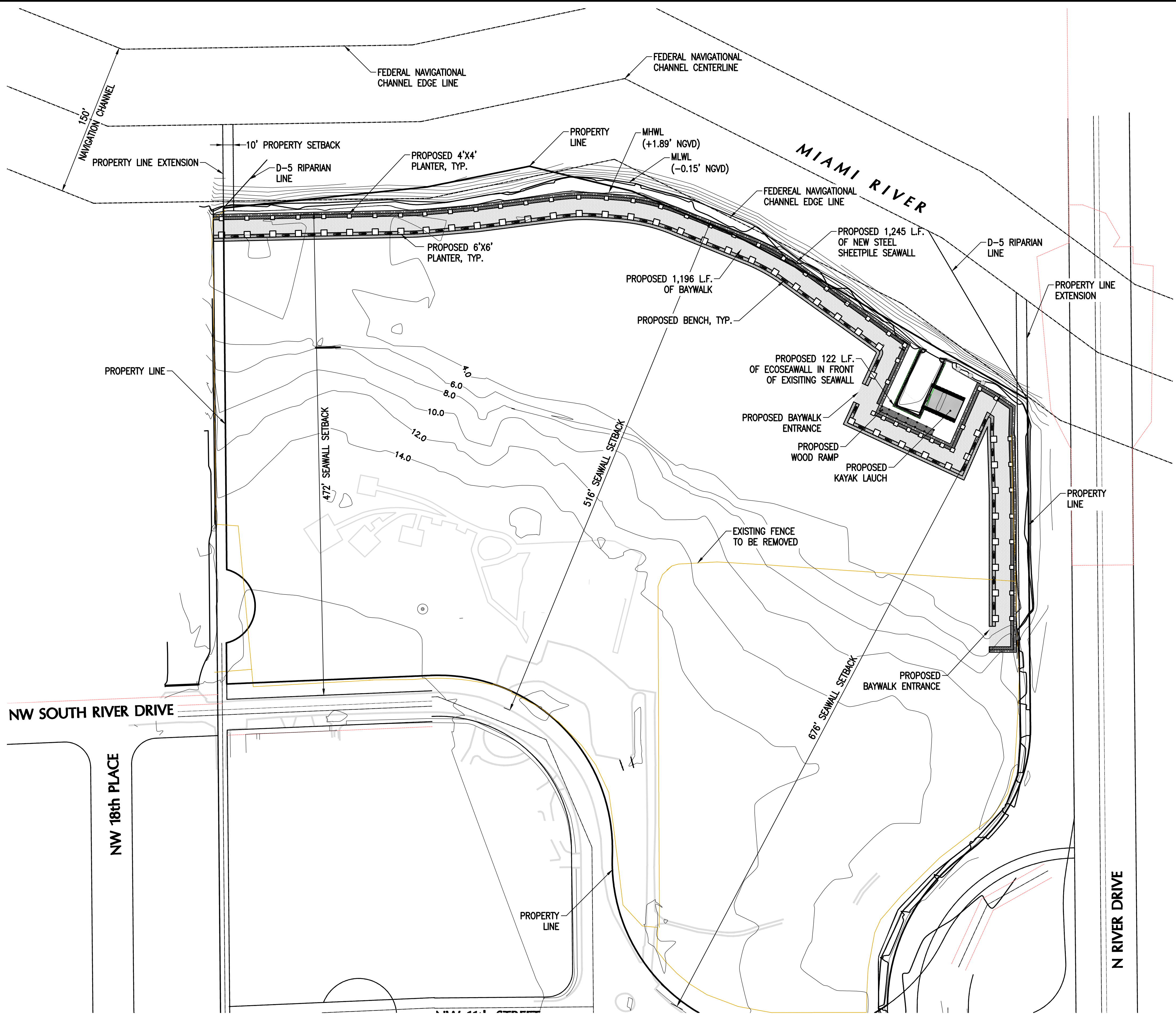
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0 50' 100'  
SCALE: 1" = 50'



**PROPOSED OVERALL SITE PLAN**  
SCALE: 1" = 50'

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**PROPOSED OVERALL SITE PLAN**

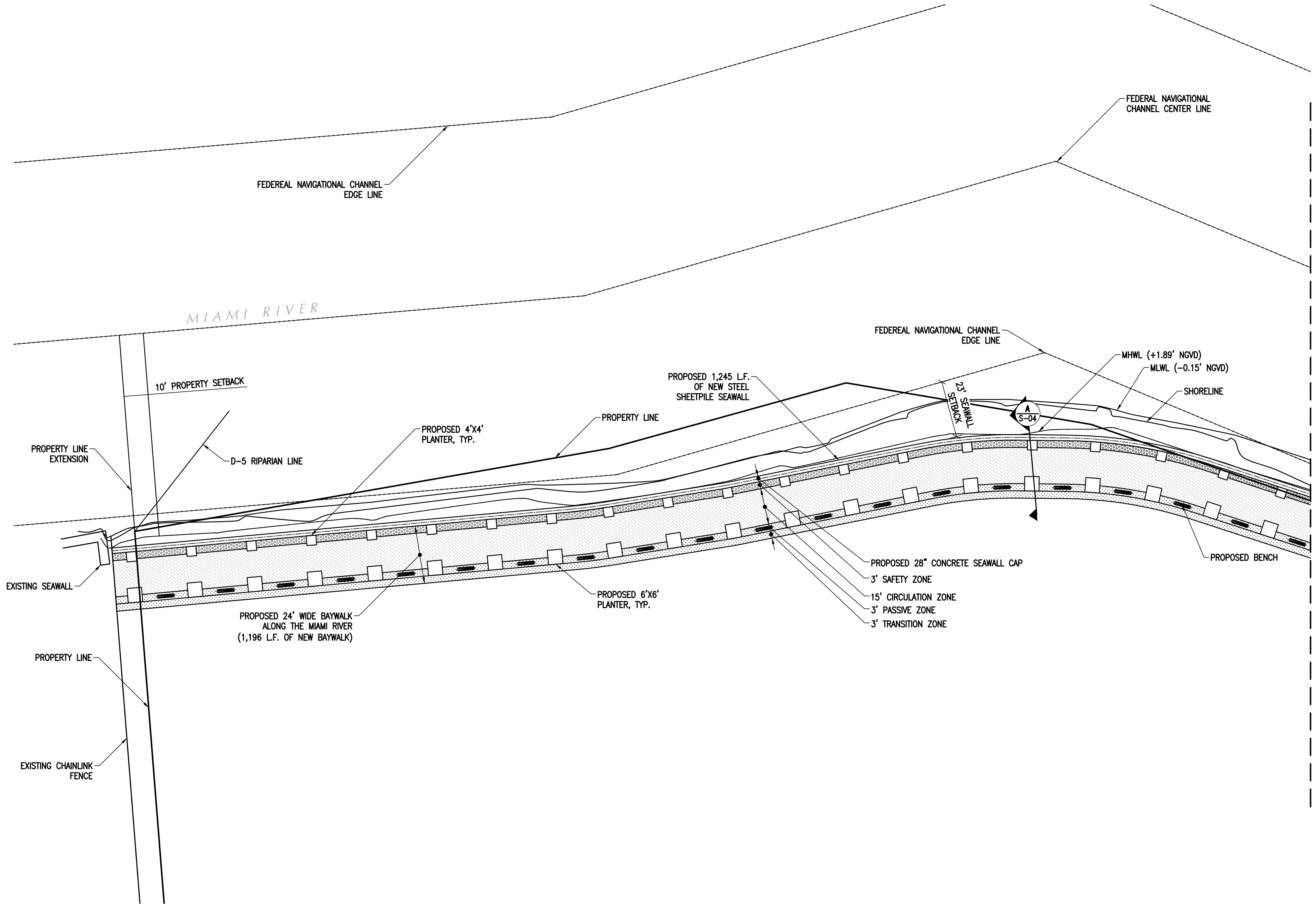
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MATCHLINE - SEE S-03 FOR CONTINUATION

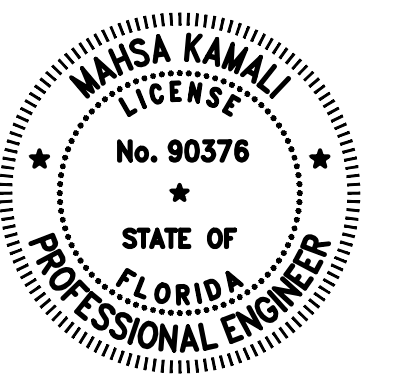


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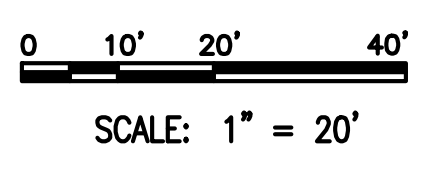
**PROPOSED SITE PLAN - 1**

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FL. REGISTRATION No. .

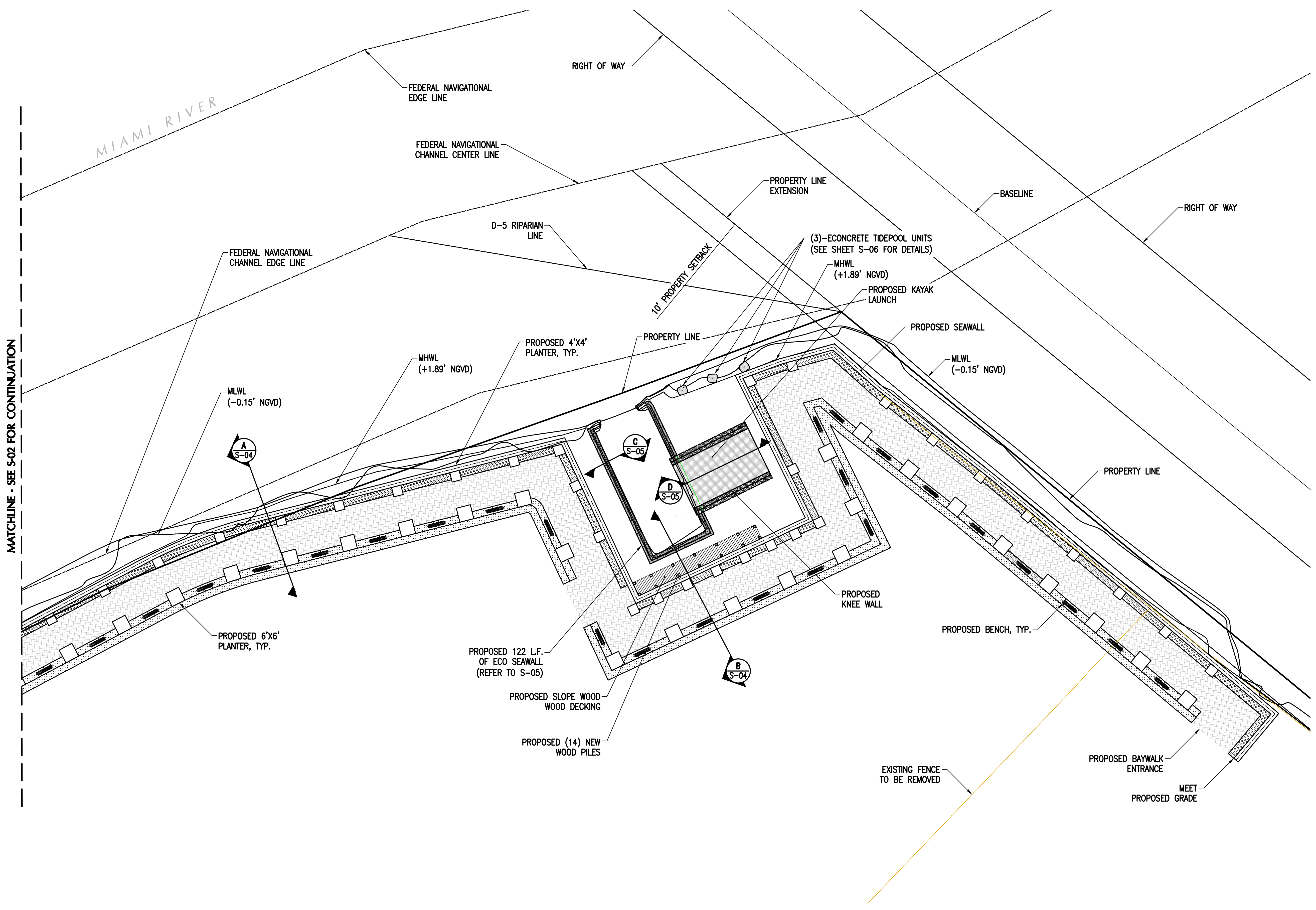
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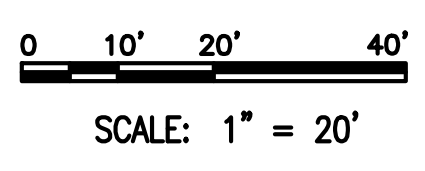
**PROPOSED SITE PLAN - 1**

SCALE: 1" = 20'

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MATCHLINE - SEE S-02 FOR CONTINUATION



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

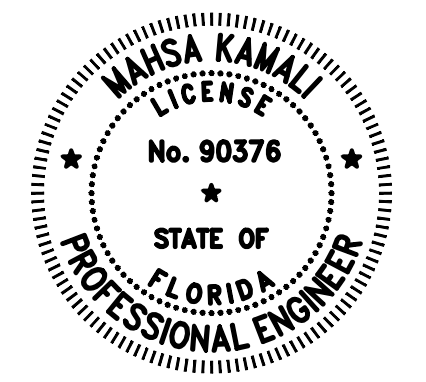
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**PROPOSED SITE PLAN - 2**

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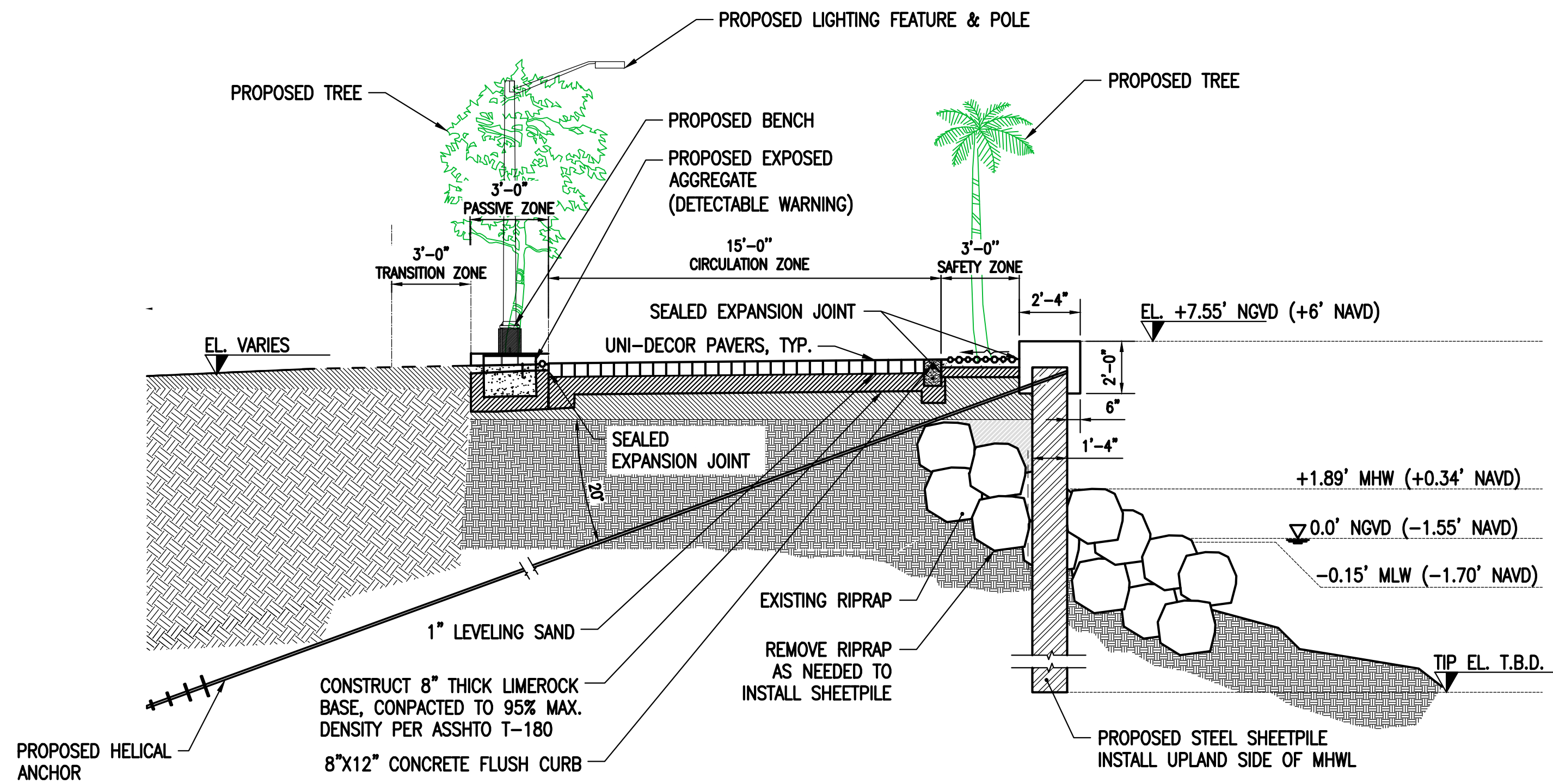
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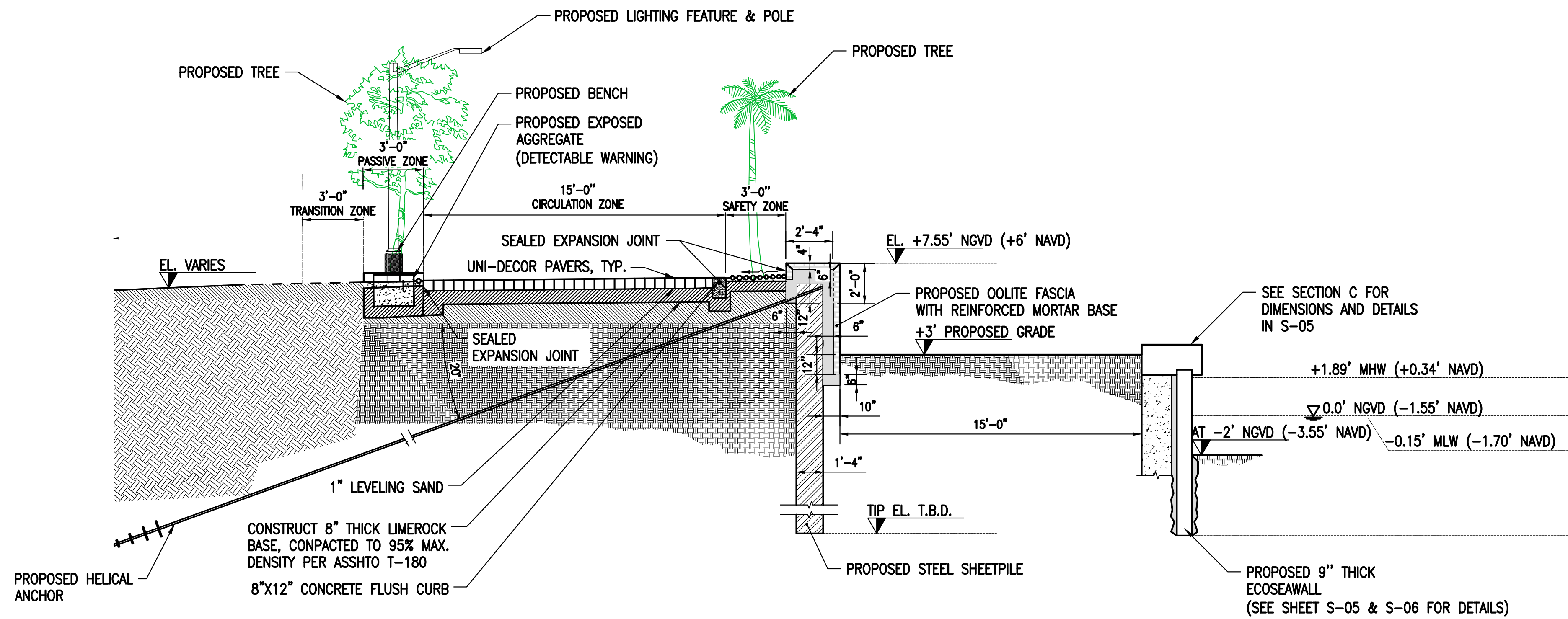
8 OF 15

S-03





SCALE: 1" = 4'  
**A SECTION**  
 1" = 4'



SCALE: 1" = 4'  
**B SECTION**  
 1" = 4'

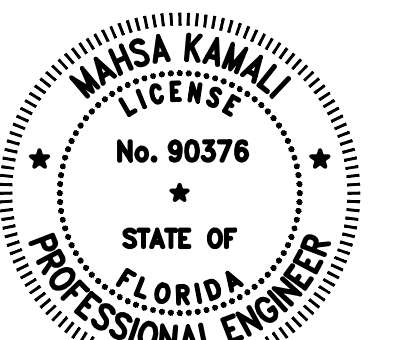
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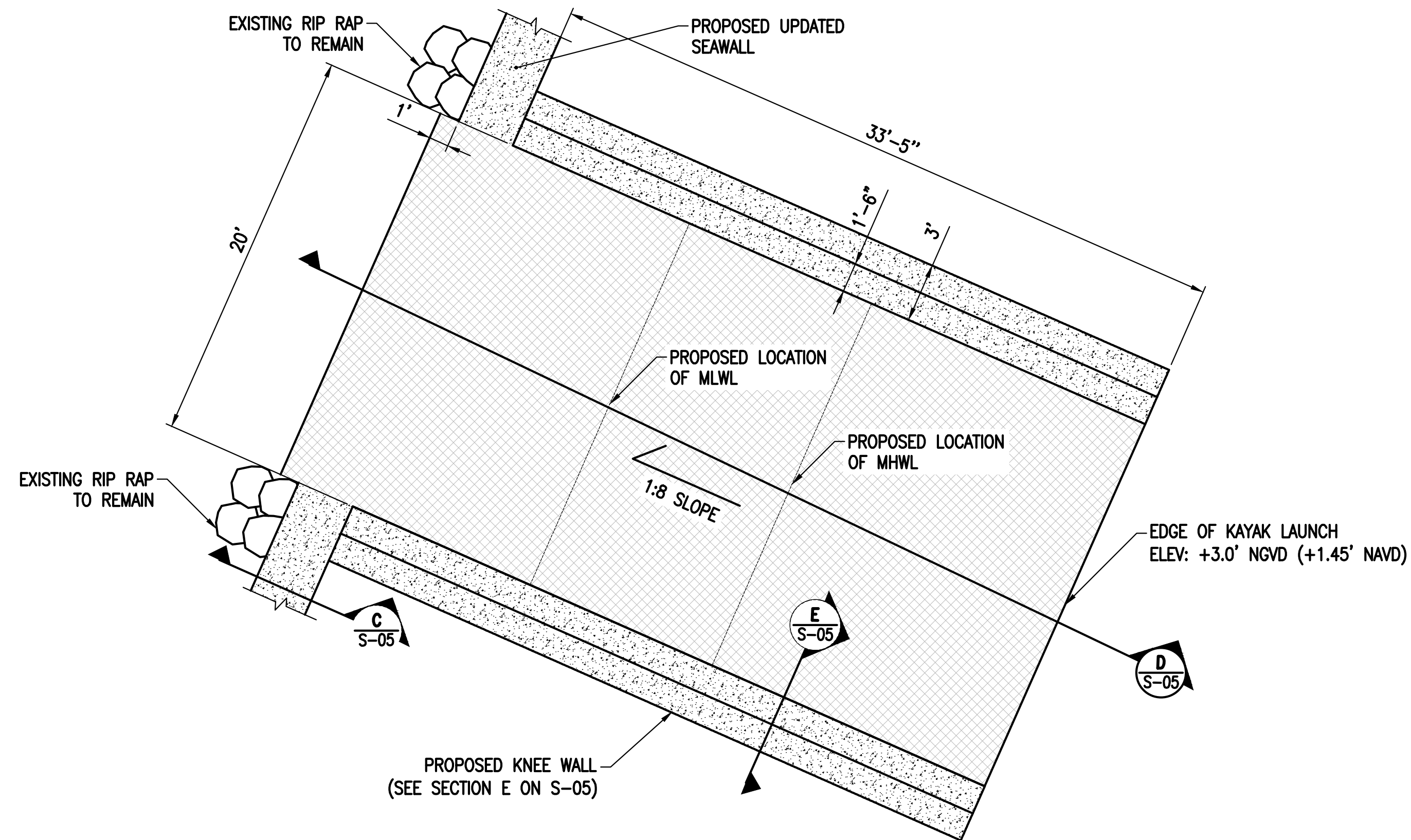
PROPOSED SECTIONS AND  
 DETAILS - 1

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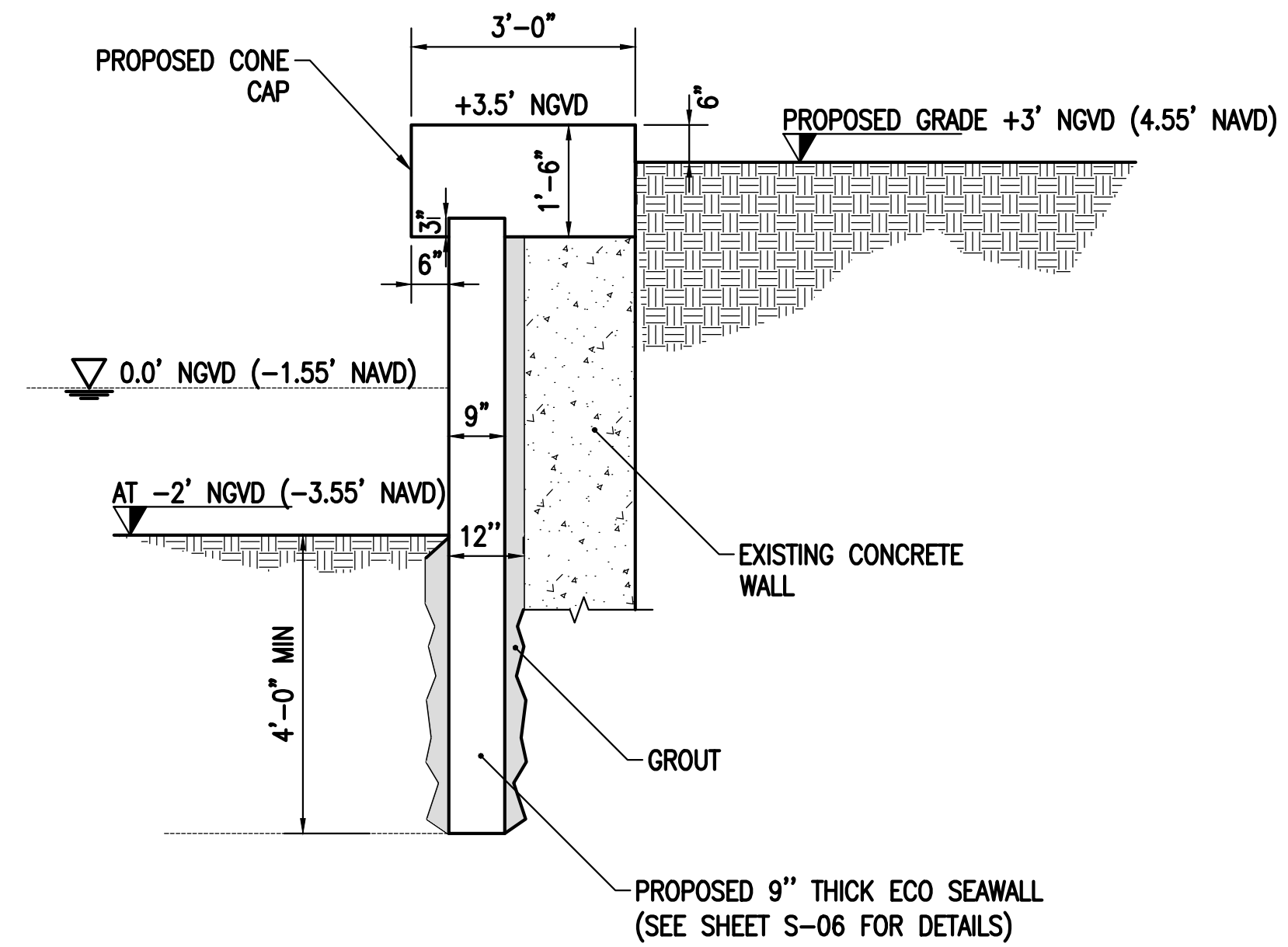
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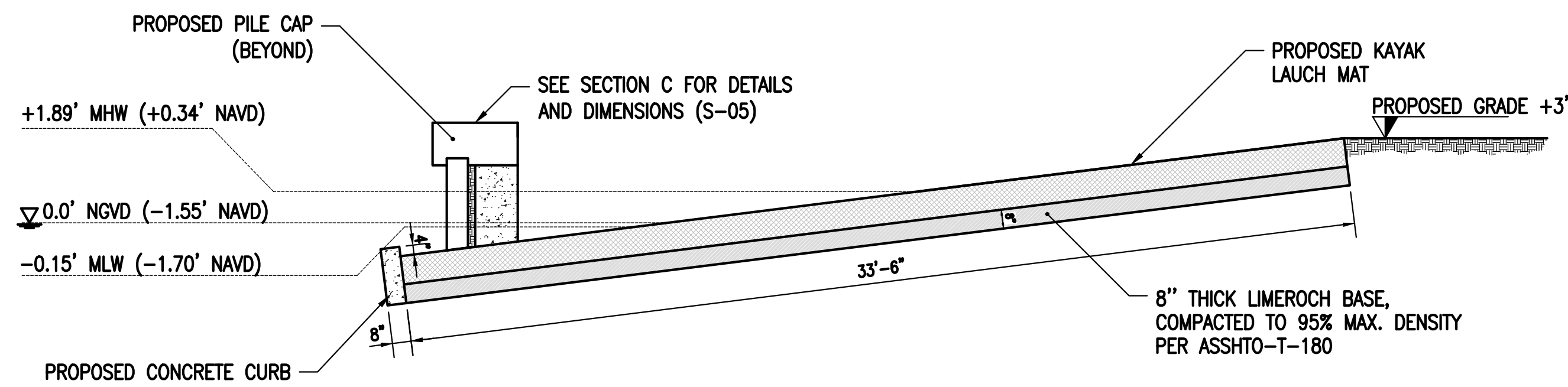
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**1** PROPOSED KAYAK LAUNCH RAMP PLAN  
1" = 5'



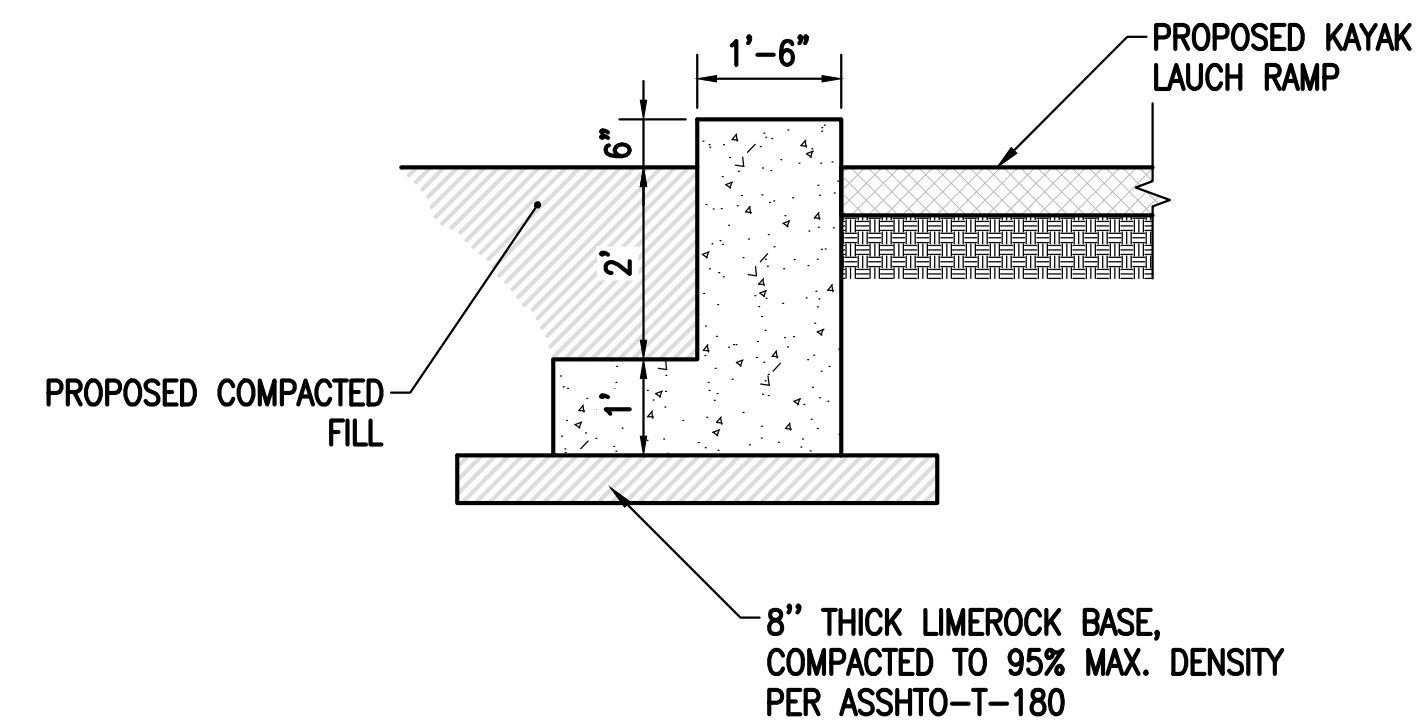
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**C** SECTION  
1" = 2'



0 4' 8'  
SCALE: 1" = 4'

**D** SECTION  
1" = 4'



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

**E** SECTION  
1" = 2'

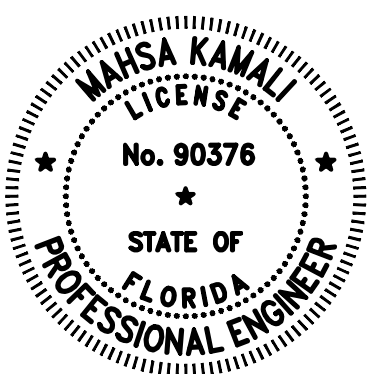
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**PROPOSED SECTIONS AND  
DETAILS - 2**

CONSULTANT SPACE



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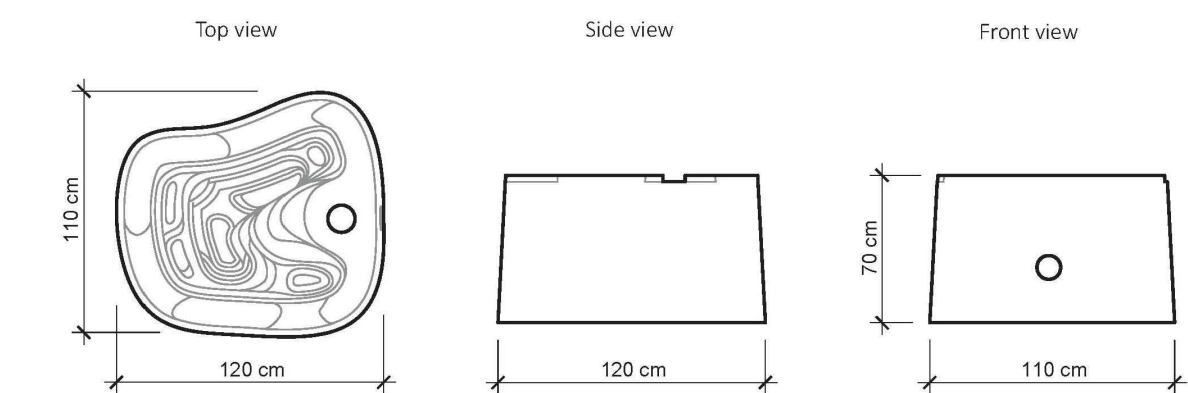
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Unit Length (cm)	Unit Width (cm)	Unit Height (cm)	Volume (Liters)	Weight (Kg)
120 (~4')	110 (~3.6')	70 (~2.3')	600 (~0.8 yd³)	1,400 (~3,100 lbs)



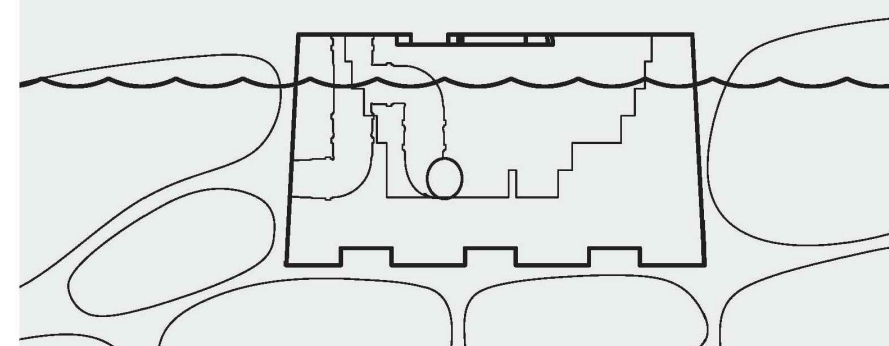
ECOcrete® Tide Pool's dimensions can be fitted to specific project requirements.

The specific concrete matrix used for the casting is defined according to the project's distinct constructive and biological requirements.

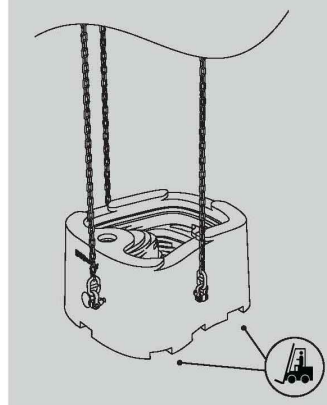


ECOcrete® Tide Pools are designed to mimic natural inter-tidal areas. With the Tide Pool's constructive abilities, it can be integrated within a breakwater system or biologically enhance a shoreline.

For optimal performance, the Tide Pool should be placed from the mean high water (MHW) to the mean low water (MLW). The outer taper of the unit allows for lockage between stones or armor units.



ECOcrete® Tide Pools can be transported by forklift and placed using lifting straps/pins.



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**1** PROPOSED ECONCRETE TIDE POOL UNITS  
N. T. S.

**ECOcrete Seawall Panel**

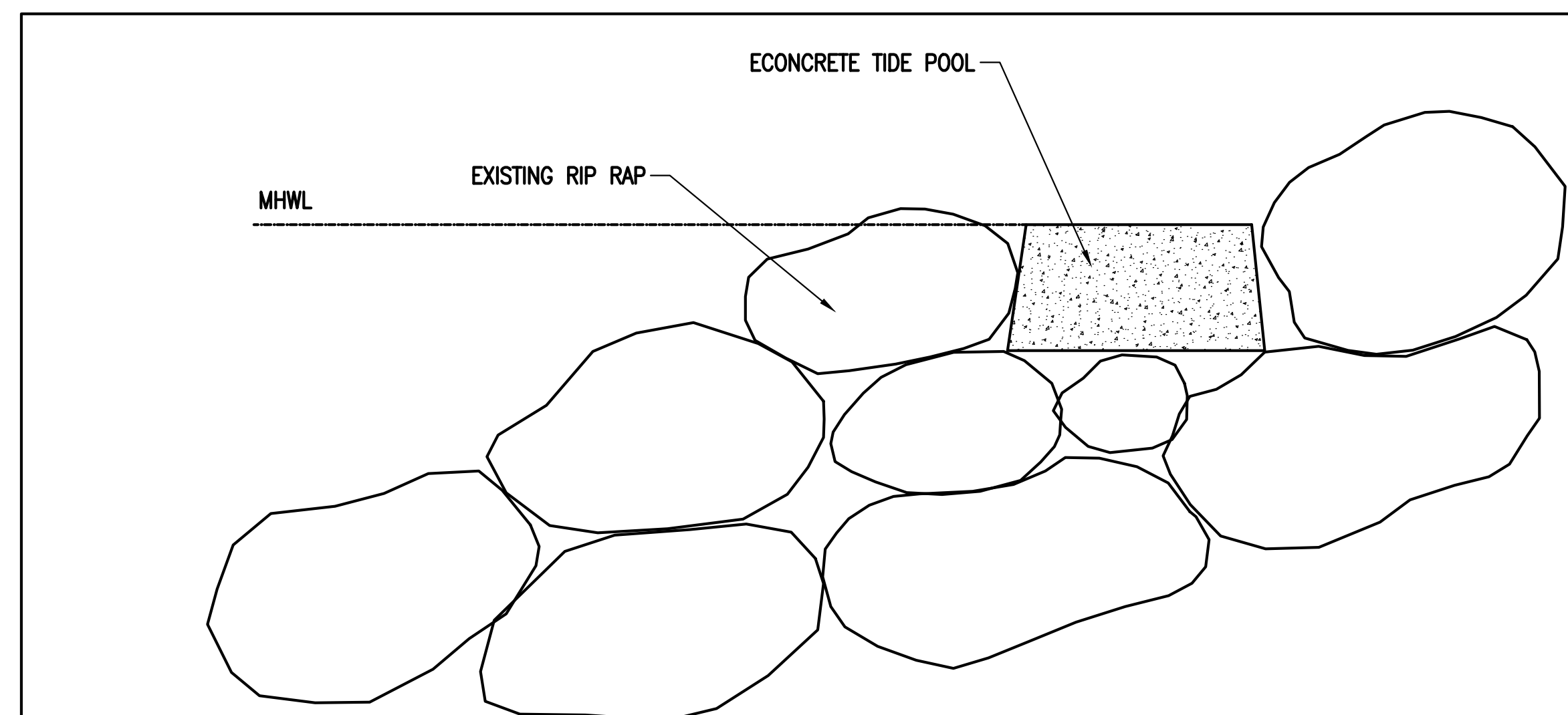
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Version: 1.2	Revised: 17-02-2021	Drawn By: Nisha Targan	Checked By: Ido Sella
File Name: ECOcrete_Seawall_Panel_2021	For Review: <input checked="" type="checkbox"/>	For Approval: <input type="checkbox"/>	For Release: <input type="checkbox"/>

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The sketches on this page are general product plans not for manufacturing, engineering and detailed drawings as well as shop drawings of the products are the sole responsibility of the manufacturer under the supervision of ECOcrete Inc. The final dimensions of the product will be determined in coordination with the manufacturer in the final planning stage. The manufacturer will provide construction and load calculations as well as detailed production drawings for ECOcrete's approval.

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**2** PROPOSED ECOSEAWALL  
N. T. S.



**3** ECONCRETE TIDE POOL BLOCK LOCATION  
N. T. S.

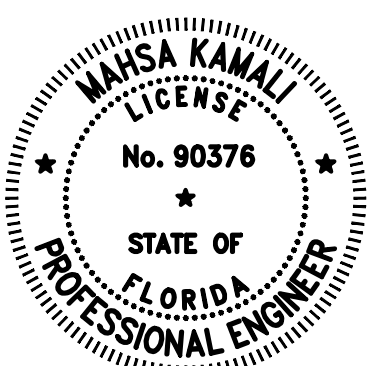
SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP



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

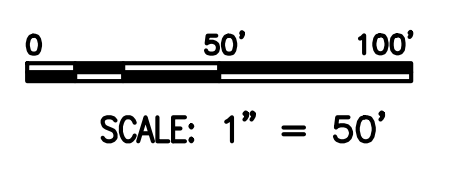
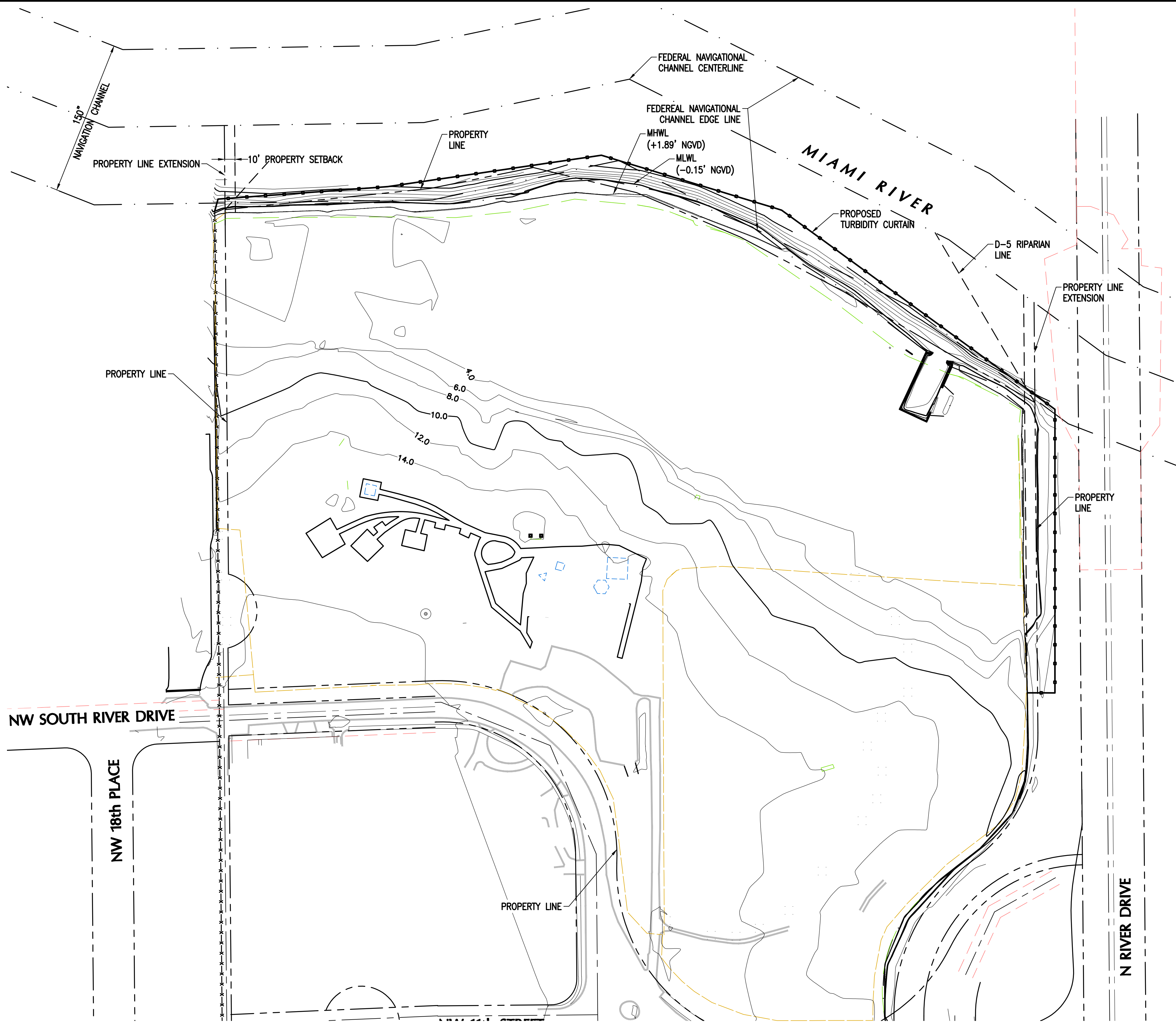
**PROPOSED SECTIONS AND  
DETAILS - 3**

CONSULTANT SPACE



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NAME: .  
FL. REGISTRATION No. .

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1	30% DESIGN SET	06/14/21
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**STORM WATER POLLUTION PREVENTION PLAN - 1**  
SCALE: 1" = 50'

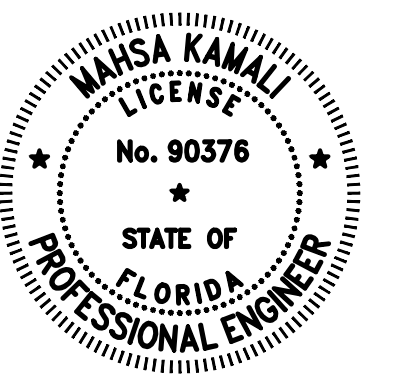
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**SEWELL PARK  
SHORELINE IMPROVEMENTS  
MIAMI, FL 33125**

**STORM WATER POLLUTION  
PREVENTION PLAN - 1**

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**COUNTY REQUIREMENTS**

**SITE DESCRIPTION:**

PROJECT NAME AND LOCATION:  
SEWELL PARK SHORELINE IMPROVEMENTS  
801 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 801 NW S RIVER DR. MIAMI, MIAMI-DADE COUNTY, FLORIDA 33125. THE PROJECT SITE WILL OCCUR WITHIN THE PROPERTY SITE 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 0.8 ACRES, NPDES PERMIT (0.5 ACRE OR MORE).

**PUBLIC:**

ON A 8.60 +/- 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 5.7' NAVD.

REFER TO SHEET SWPPP-2 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= 8.60 +/- ACRES
- 2. TOTAL AREA TO BE DISTURBED = 2.15 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. REMOVAL OF EXISTING LANDSCAPING (AS SPECIFIED ON THE LANDSCAPING PLANS)
- 9. DEMOLITION OF ALL CONCRETE SLABS (INCLUDING EXISTING KAYAK LAUNCH RAMP AND CONCRETE CAP)
- 10. CONSTRUCTION OF NEW PARK SEAWALL INCLUDING REARRANGEMENT OF RIP RAP
- 11. RE-GRADING THE PARK TO MEET PROPOSED DESIGN

- 12. CONSTRUCTION OF KNEE WALL
- 13. CONSTRUCTION OF NEW STORMWATER OUTFALL WITH CONTROL BOX
- 14. CONSTRUCTION OF NEW BAYWALK PER MIAMI-21 DESIGN CODE
- 15. INSTALL PARK ELECTRICAL COMPONENTS
- 16. 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 BEACH. 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 BEACH. 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.

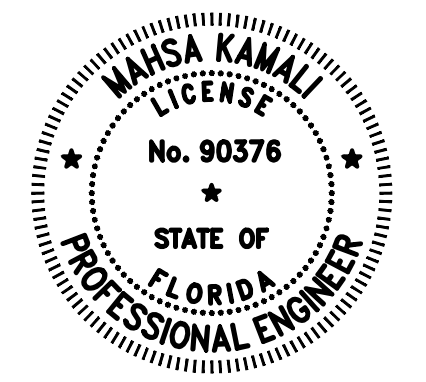
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SEWELL PARK SHORELINE IMPROVEMENTS MIAMI, FL 33125  
STORM WATER POLLUTION PREVENTION PLAN - 2

SHEET TITLE:

CONSULTANT SPACE



DATE: 7/21/2021

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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  $\leq$  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:**

**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
- \_\_\_\_\_

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

**SPILL PREVENTION**

**MATERIAL MANAGEMENT PRACTICES:**

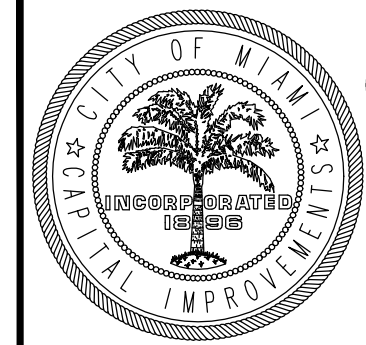
THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORMWATER RUNOFF.

**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 BEACH TREE PROTECTION PLAN.

SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP



**CITY OF MIAMI**

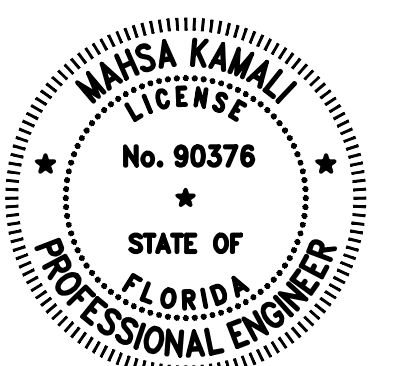
OFFICE OF CAPITAL IMPROVEMENTS  
444 S.W. 2nd Avenue, 8th Floor  
Miami, FL 33130

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

**STORM WATER POLLUTION  
PREVENTION CONTROL PLAN - 3**

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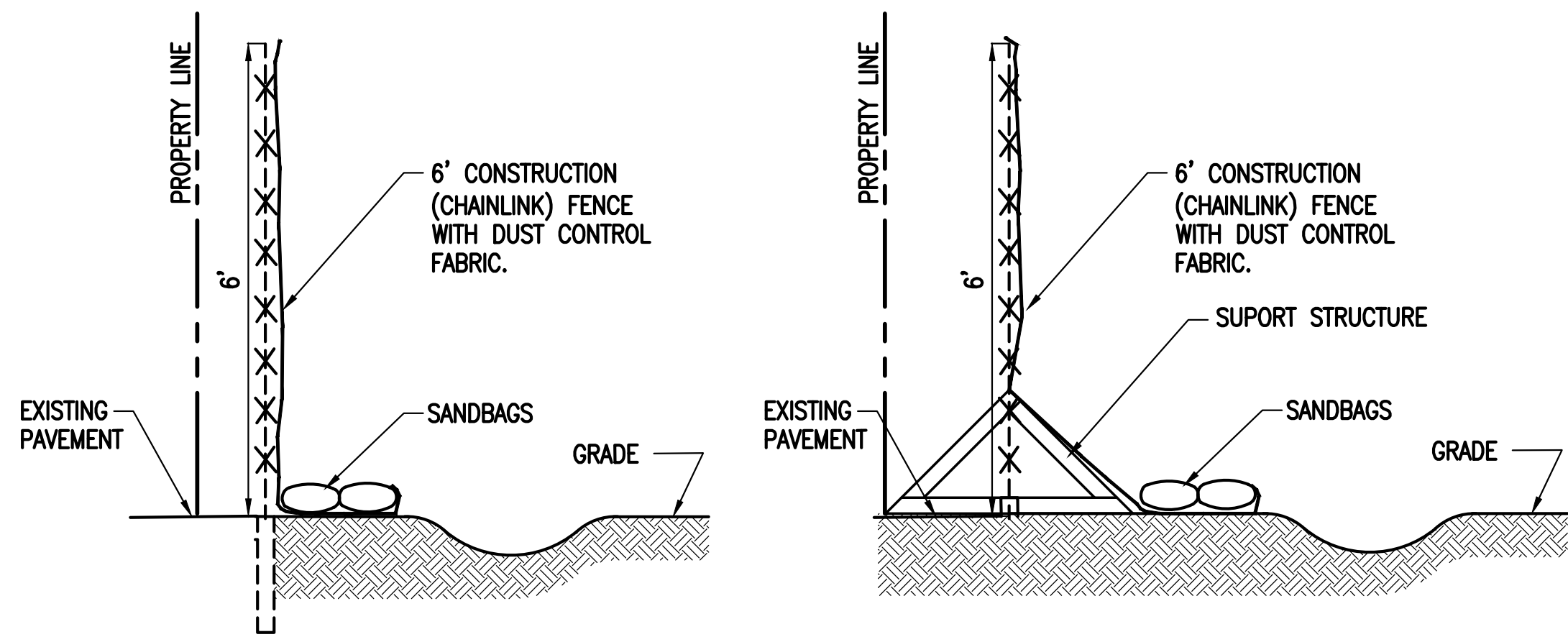


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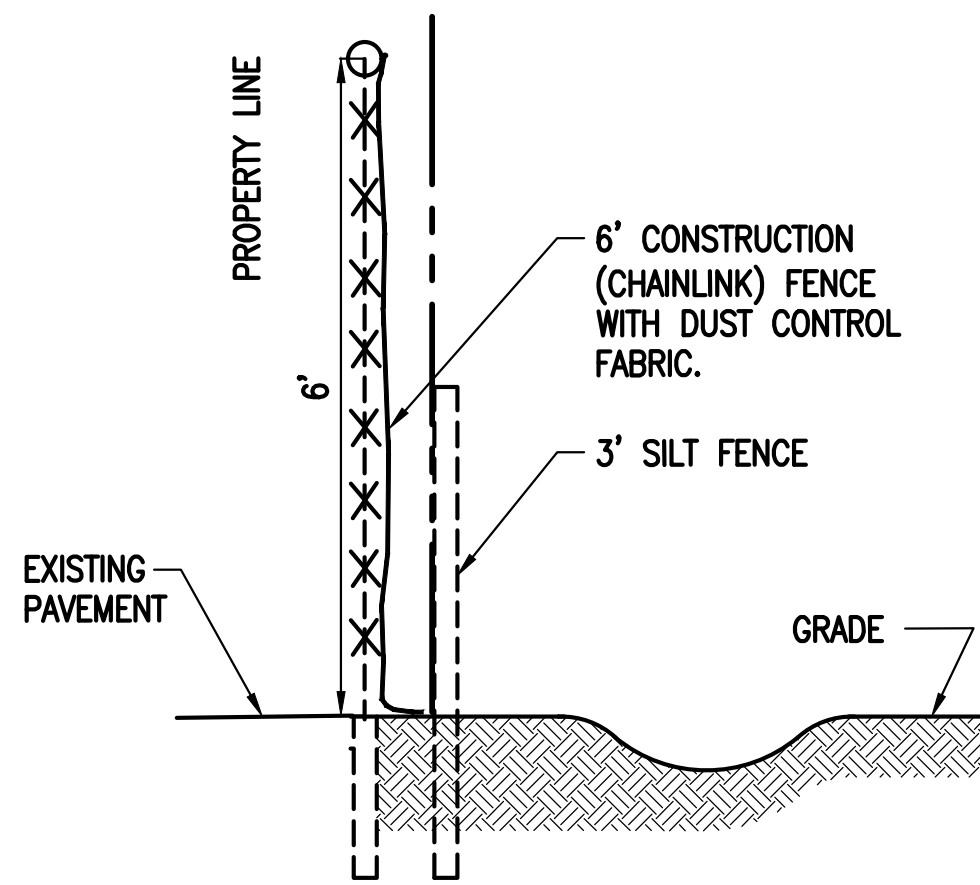
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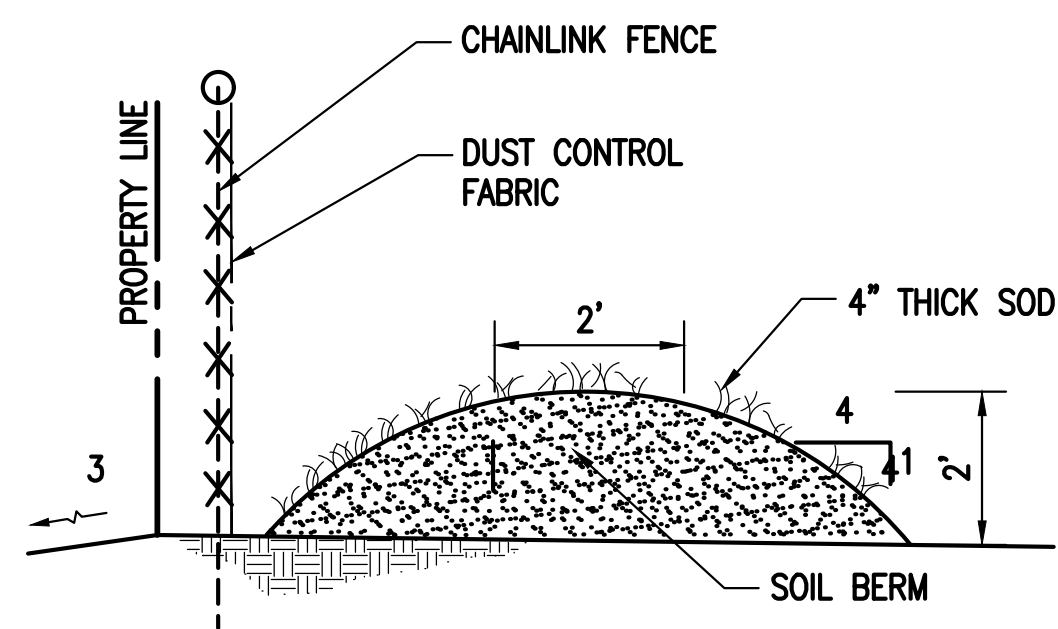
ALTERNATIVE 2

FENCE DETAIL WITH SEDIMENT TRAP



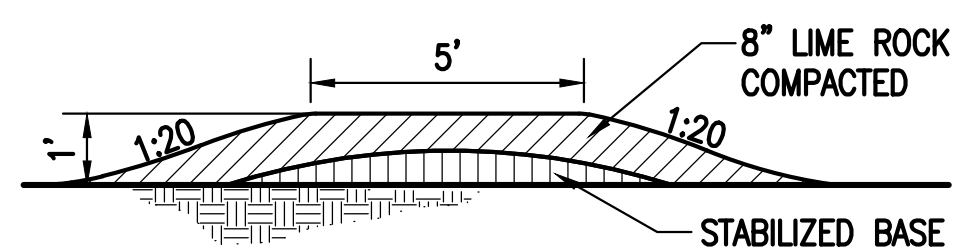
FENCE DETAIL WITH SEDIMENT TRAP

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.



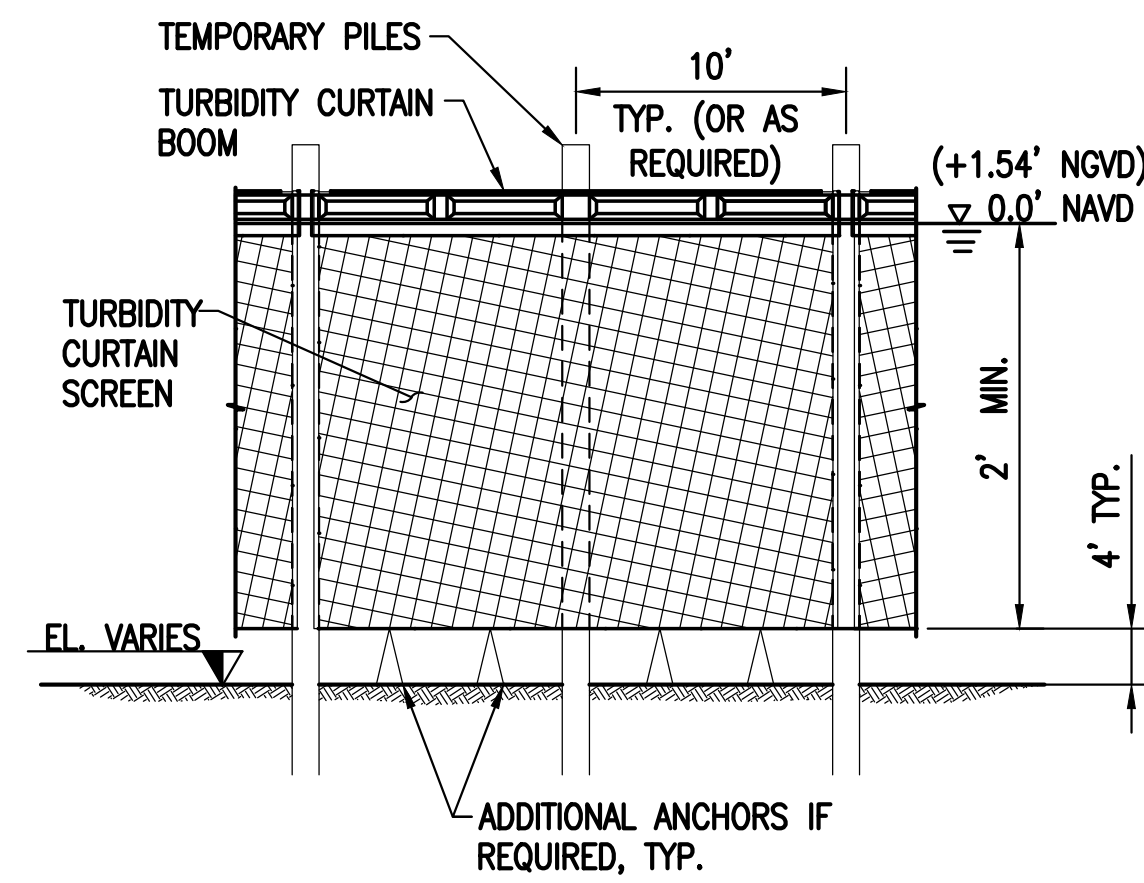
SEDIMENT CONTROL BARRIER

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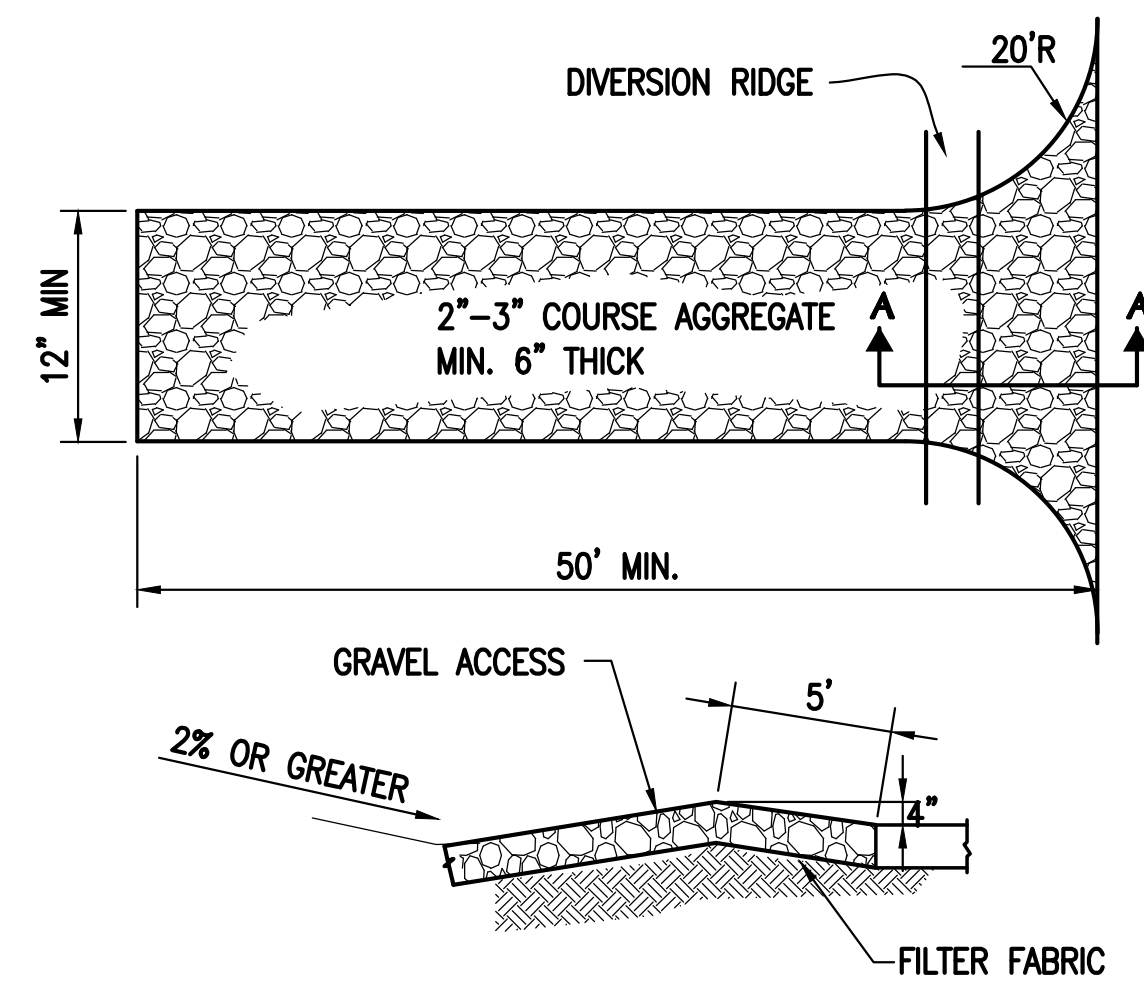
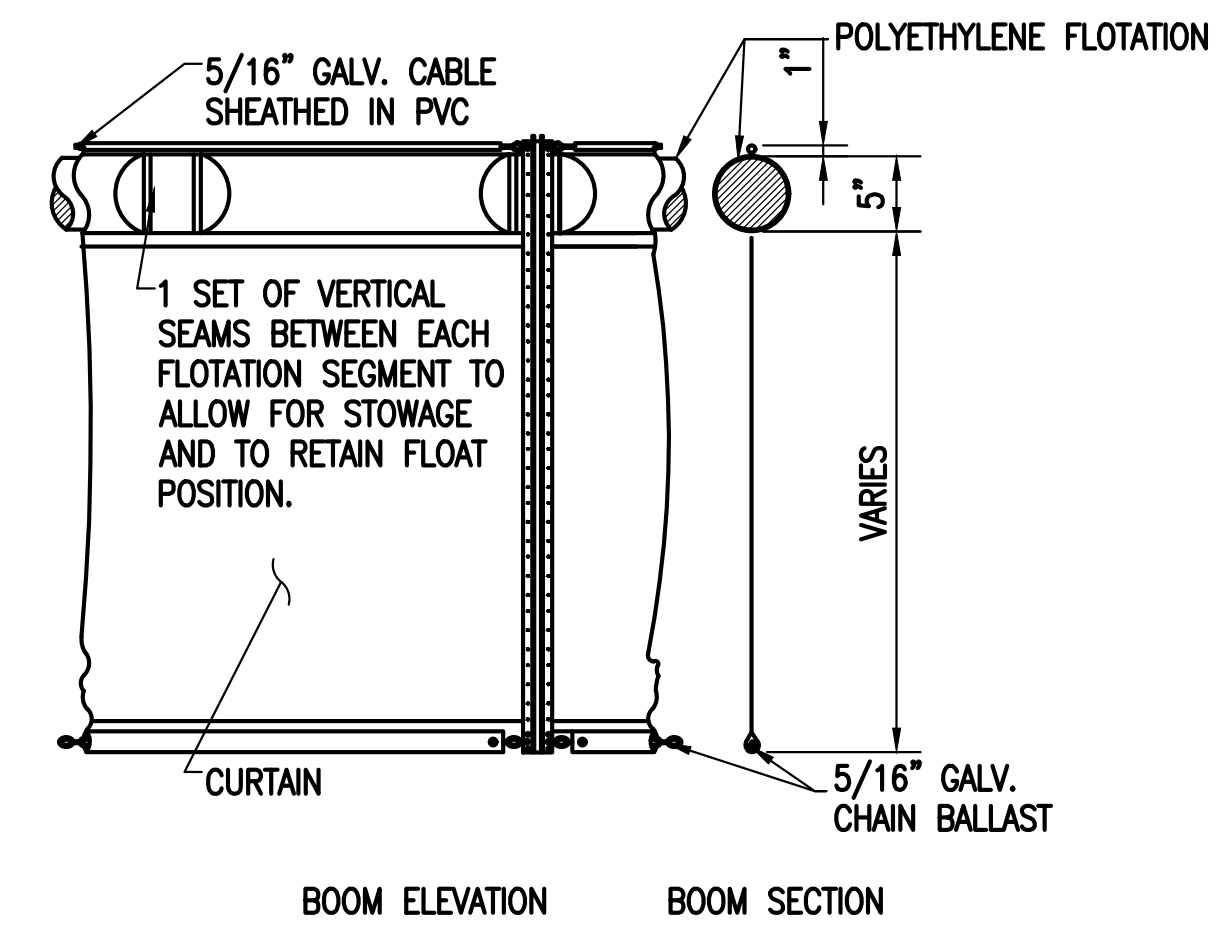


STONE BLANKET DETAIL

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A TURBIDITY CURTAIN DETAILS  
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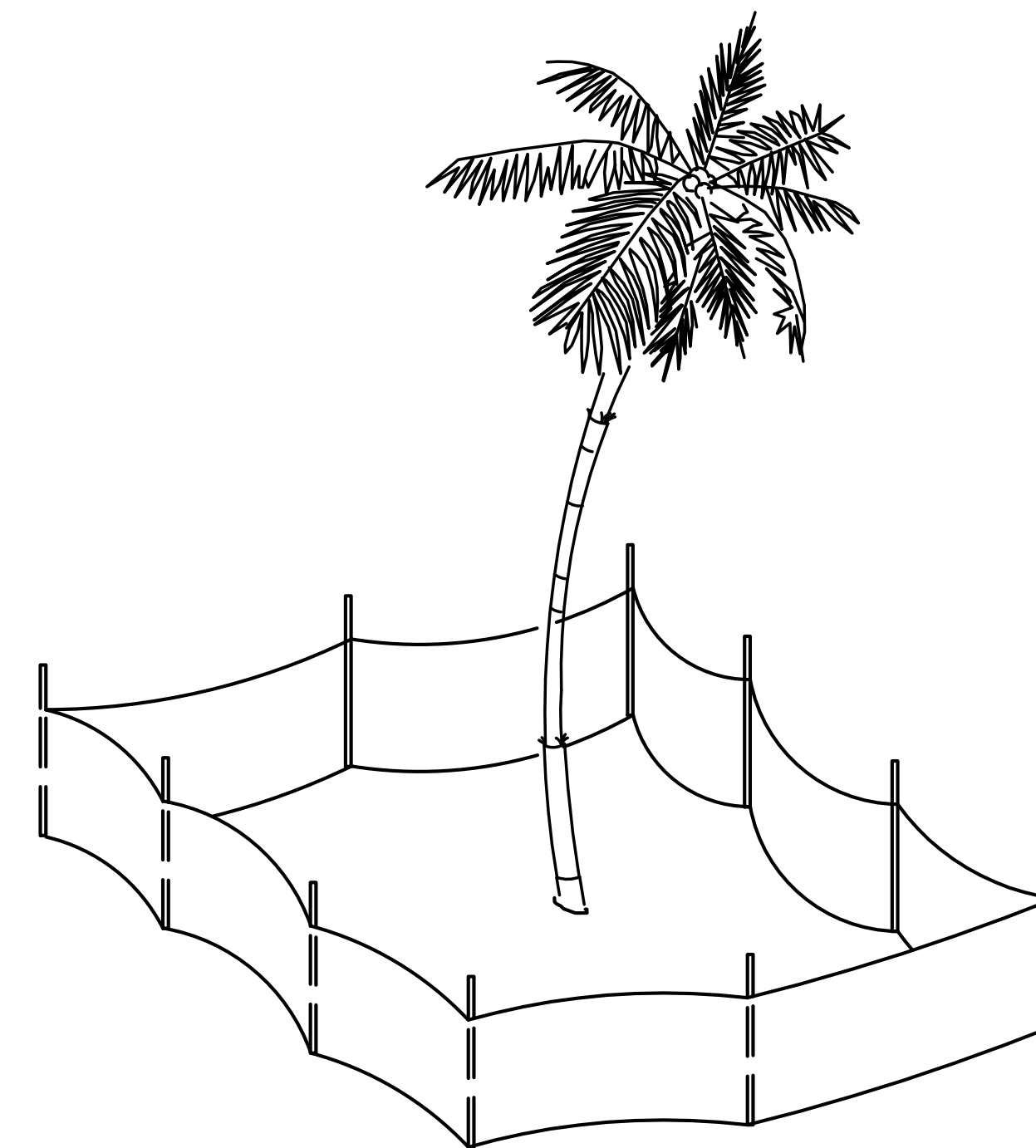


NOTE: DIVERSION RIDGE REQUIRED WHERE GRADE EXCEEDS 2%

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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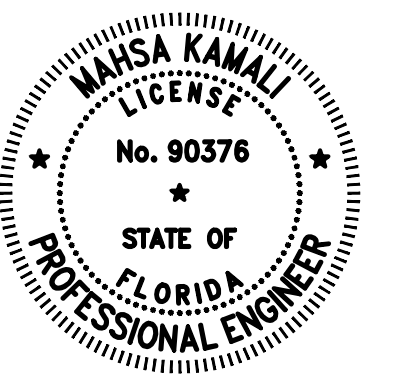


SEWELL PARK  
SHORELINE IMPROVEMENTS  
MIAMI, FL 33125

STORM WATER POLLUTION  
PREVENTION CONTROL DETAILS

SHEET TITLE:

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