

# 30 % DESIGN, PERMITTING, AND CONSTRUCTION PLANS FOR: HARRY HARRIS PARK RESILIENT REDESIGN

TAVERNIER, FLORIDA  
WSP PROJECT NUMBER: 600837X1



5015 S. Florida Avenue, Suite 301  
Lakeland, FL 33813  
P+ 1 863-667-2345  
wsp.com

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PROJECT:

## Harry Harris Park Resilient Redesign

MONROE COUNTY, FLORIDA



MONROE COUNTY  
1100 SIMONTON ST  
KEY WEST, FL

WSP PROJECT No:  
600837X8

REVISIONS

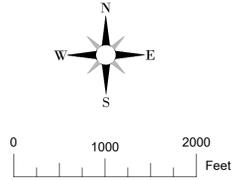
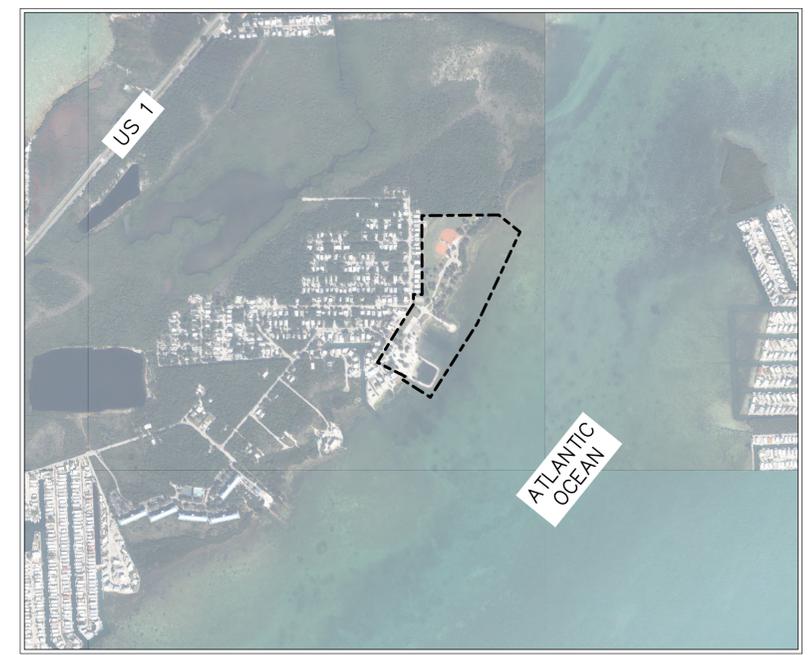
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SHEET TITLE:  
  
**COVER SHEET**

SHEET NUMBER:	REV. #
G-001	
SHEET OF SHEETS	

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ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN  
REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN  
OBTAINING SCALED DATA.



Know what's below.  
Call before you dig.

CONTRACTOR IS TO VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

NOTE:  
CONSTRUCTION PLANS ARE AVAILABLE IN AUTODESK CIVIL 3D FORMAT ONLY. ANY  
FILE CONVERSIONS WILL BE AT THE CONTRACTOR'S EXPENSE.

SITE LOCATION MAP:  
MONROE COUNTY, FLORIDA  
SECTION 34, TOWNSHIP 3 NORTH, RANGE 69 WEST

GOVERNING SPECIFICATIONS:  
FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST  
EDITION, AND FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE  
CONSTRUCTION, LATEST EDITION AND HAINES CITY LAND DEVELOPMENT REGULATIONS.

NOTES:

A. GENERAL

1. PROPERTY OWNER'S NAME AND ADDRESS:

MONROE COUNTY  
1100 SIMONTON ST  
KEY WEST, FL 33040  
PARCEL ID# 00089220-000000

PROJECT LOCATION: LAT: 25.0257 LONG: -80.494

DESCRIPTION:

2. THE TYPES OF SOIL DISTURBANCE ACTIVITIES INCLUDE: GRADING AND EXCAVATING
3. CONSTRUCTION AND DEMOLITION DEBRIS SHOULD BE REMOVED FROM THE SITE AND DISPOSED ACCORDING TO FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION CHAPTER 62-701.
4. SEQUENCE OF MAJOR ACTIVITIES:
  - a. INSTALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS AND MAINTAIN THROUGHOUT PROJECT.
  - b. CONSTRUCT STAGING AREAS.
  - c. CONSTRUCT FEATURES ACCORDING TO ENGINEERING DESIGN PLANS AND TECHNICAL SPECIFICATIONS.
  - d. OBTAIN FINAL APPROVAL, REMOVE EROSION AND SEDIMENTATION CONTROLS AND STABILIZE ANY AREA DISTURBED BY THEIR REMOVAL.
5. AREA ESTIMATES: TOTAL PARCEL BOUNDARY = 19.0 ACRES,
6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DEVELOP AND IMPLEMENT A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH THE EPA NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES, THE FDEP GENERIC PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES AND ALL OTHER FEDERAL, STATE AND LOCAL REQUIREMENTS.
7. MONROE COUNTY AND THE CONTRACTOR SHALL HAVE A PRE-CONSTRUCTION MEETING TO DISCUSS THE COMPLEXITY AND POTENTIAL PUBLIC CONCERNS WITH THE PROJECT.
8. BEARINGS, DISTANCES, COORDINATES & ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), RESPECTIVELY, BASED ON NATIONAL SPATIAL REFERENCE SYSTEM CONTROL STATIONS:
9. ANY MATERIAL TO BE STOCKPILED FOR PERIODS GREATER THAN 24 HOURS SHALL BE PROTECTED BY THE APPROPRIATE EROSION CONTROL MEASURES.
10. THE CONTRACTOR IS ALERTED TO THE PRESENCE OF OVERHEAD WIRES AND POLES IN THE AREA. THE METHOD OF CONSTRUCTION FOR THESE LOCATIONS MUST COMPLY WITH OSHA SAFETY STANDARDS. THE CONTRACTOR SHALL INSPECT THESE SITES AND WILL BE RESPONSIBLE FOR DETERMINING WHAT METHOD OF PREPARATION AND INSTALLATION WILL BE USED TO COMPLY WITH THESE REQUIREMENTS. THE METHOD OF PREPARATION AND INSTALLATION MUST HAVE THE ENGINEER'S AND UTILITY OWNER'S APPROVAL.
11. ANY DISCREPANCIES BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD.
12. NO FIELD CHANGES OR DEVIATIONS FROM THE DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE ENGINEER OF RECORD.

B. TEMPORARY EROSION AND SEDIMENT CONTROL

1. CONTRACTOR SHALL INSTALL PRIOR TO AND MAINTAIN DURING CONSTRUCTION ALL SEDIMENT CONTROL MEASURES AS REQUIRED TO RETAIN ALL SEDIMENTS ON THE SITE. IMPROPER SEDIMENT CONTROL MEASURES MAY RESULT IN CODE ENFORCEMENT VIOLATIONS.
2. ALL SILT FENCE AND TURBIDITY BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL BE DONE UNTIL SILT FENCE AND TURBIDITY BARRIERS ARE INSTALLED.
3. SILT FENCE AND TURBIDITY BARRIERS ARE TO BE PLACED AS SHOWN AND/OR DIRECTED BY ENGINEER.
4. EROSION CONTROL MEASURES WILL BE INSPECTED AT LEAST DAILY, AFTER EACH RAIN AND REPAIRED BY THE GENERAL CONTRACTOR. CLEAN OUT OF SEDIMENT CONTROL STRUCTURES WILL BE PERFORMED BY THE CONTRACTOR WHEN SEDIMENT HAS ACCUMULATED TO ONE-THIRD (1/3) OF THE HEIGHT OF THE INDIVIDUAL STRUCTURE FOR TEMPORARY SEDIMENT BASINS & RETROFITTED DETENTION PONDS, ONE-HALF (1/2) FULL FOR SILT FENCE, TURBIDITY BARRIERS, CHECK DAMS, ROCK FILTER DAMS, AND INLET SEDIMENT TRAPS.
5. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING SEDIMENT AND EROSION CONTROL MEASURES TO PROVIDE OPTIMUM SEDIMENT AND EROSION CONTROL. SEDIMENT AND EROSION CONTROL MEASURES SHALL COMPLY WITH STATE OF FLORIDA EROSION AND SEDIMENT CONTROL MANUAL, DATED JULY 2013.
6. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION OF MONROE COUNTY DESIGNATED REPRESENTATIVE.
7. THE CONTRACTOR SHALL PROTECT ANY EXISTING DITCHES, WETLAND VEGETATION, STORM DRAIN PIPES, AND INLETS IN THE VICINITY OF WORK TO BE PERFORMED FROM DAMAGE OR SILTATION, WHETHER OR NOT SPECIFICALLY IDENTIFIED IN THE PLANS.
8. EROSION CONTROL MEASURES DESCRIBED SHALL BE MAINTAINED UNTIL GRASS ON PLANTED SLOPES IS SUFFICIENTLY ESTABLISHED TO BE AN EFFECTIVE EROSION DETERRENT.
9. ALL GRASSING SHALL BE IN ACCORDANCE WITH THE ATTACHED SPECIFICATIONS.
10. CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD INTO PUBLIC STREETS. IF TRACKING OR FLOW OF MUD OCCURS, CONTRACTOR SHALL CONSTRUCT A SOIL TRACKING PREVENTION DEVICE IN ACCORDANCE WITH FDOT DESIGN STANDARD 2010, INDEX NO. 106.
11. TEMPORARY PROTECTION DEVICES MUST BE MAINTAINED UNTIL PROJECT COMPLETION OR VEGETATION MEASURES ARE ESTABLISHED.
12. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES UPON ESTABLISHMENT OF PERMANENT VEGETATION OR PROJECT COMPLETION.
13. SILT FENCE AND TURBIDITY BARRIERS SHALL MEET THE REQUIREMENTS OF FDOT DESIGN STANDARDS 2010, INDEX NO. 102 AND 103.
14. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONTROL OF EROSION WITHIN THE WORK SITE AND PREVENTION OF SEDIMENTATION OF ANY ADJACENT OR DOWNSTREAM WATERWAYS. THE EROSION AND SEDIMENTATION CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. THE CONTRACTOR'S METHODS OF OPERATION MAY DICTATE ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND INSTALLING ADDITIONAL MEASURES.
15. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 20 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
16. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
17. NOTIFY APPROPRIATE MONROE COUNTY REPRESENTATIVE 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

18. THE CONTRACTOR SHALL BE SOLE RESPONSIBLE FOR ENSURING ALL PERMIT REQUIREMENTS FOR TURBIDITY ARE MET. THE TURBIDITY LEVELS OUTSIDE THE CANAL (OUTSTANDING FLORIDA WATERS) SHALL NOT EXCEED 0 NTU'S ABOVE BACKGROUND. THE TURBIDITY MONITORING WILL BE PERFORMED BY MONROE COUNTY REPRESENTATIVE AND SHALL BE LOGGED DURING IN WATER WORK.

C. EXISTING INFRASTRUCTURE

1. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING EXISTING INFRASTRUCTURE THAT IS IMPACTED DURING CONSTRUCTION TO MATCH EXISTING CONDITIONS. SEE CONSTRUCTION PLAN SHEET FOR DETAILS.



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SHEET TITLE:  
  
**GENERAL NOTES**

SHEET NUMBER:	REV. #
G-002	
SHEET OF SHEETS	

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**HARRY HARRIS PARK AREA EXPLANATION OF FEATURES**

1. BEACH / SWIMMING AREAS
2. PICNIC AREAS AND PLAYGROUND
3. ACCESS ROADS & PUBLIC PARKING, RESTROOM BUILDING
4. BOAT RAMP, TIMBER PIER, & SEAWALL
5. WILKINSON POINT CIRCLE
6. NORTHERN SHORELINE & WALKING TRAILS, PICNIC PAVILIONS
7. BASEBALL FIELDS & RELATED STRUCTURES
8. BASKETBALL COURT & OPEN SPACE

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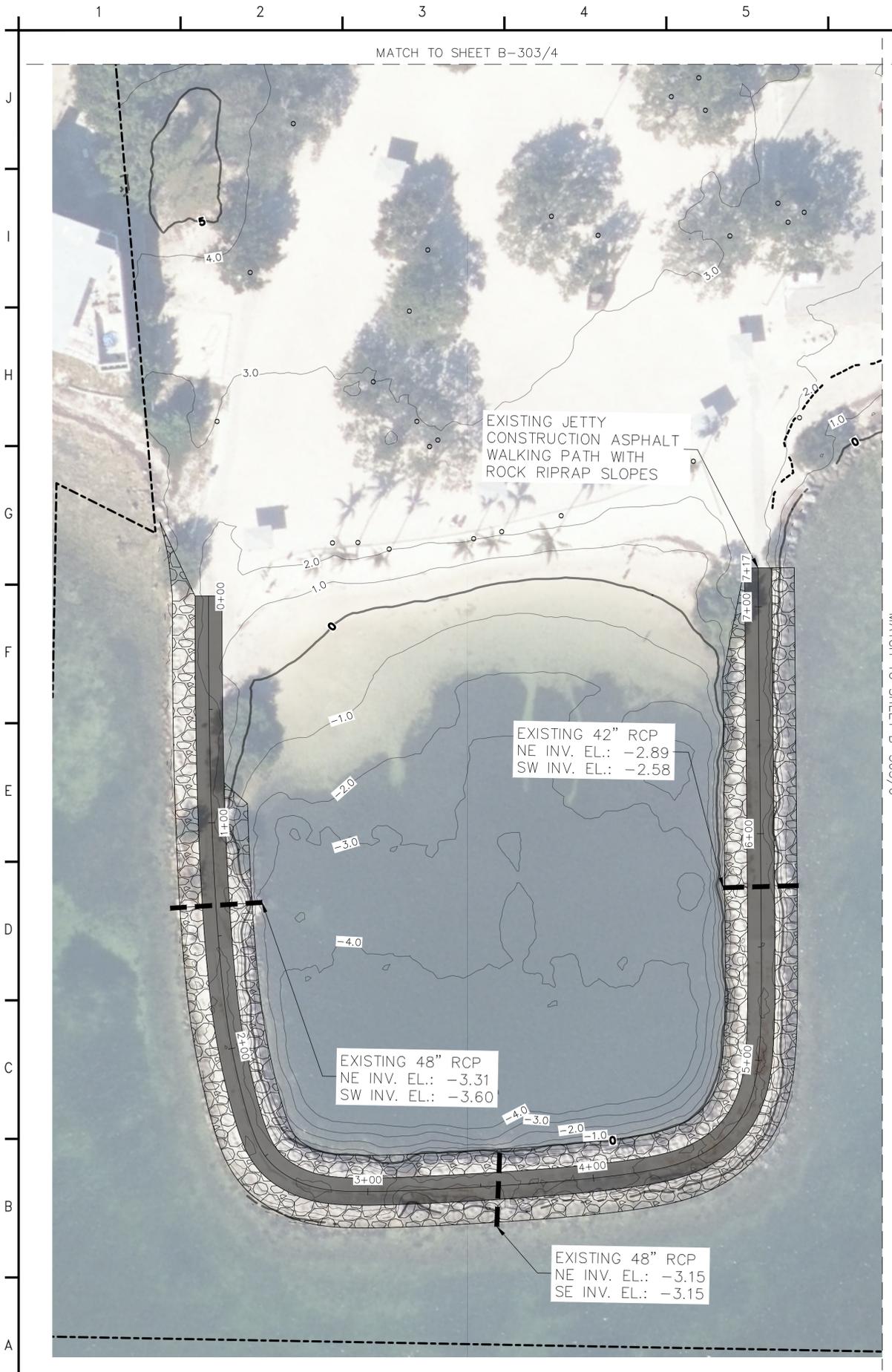
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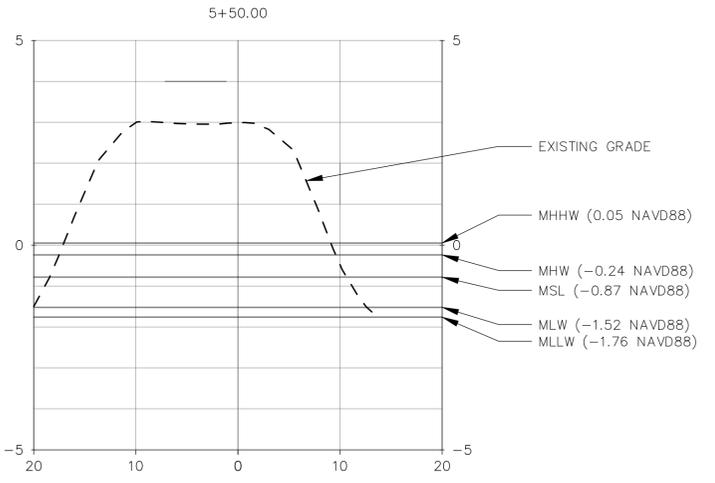
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SHEET TITLE:  
**ZONE MAP**

SHEET NUMBER:	REV. #
<b>G-003</b>	
SHEET OF SHEETS	

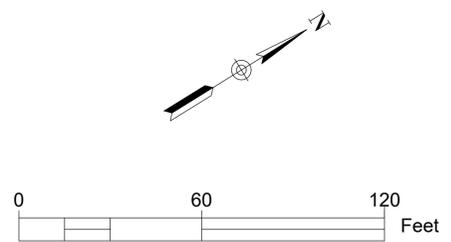


MATCH TO SHEET B-305/6



**LEGEND:**

- PROJECT BOUNDARY
- STONE
- EXISTING CULVERT
- TREE
- EXISTING WETLAND LINE
- PROPOSED PERVIOUS PAVER
- PROPOSED COMPOSITE BOARDWALK



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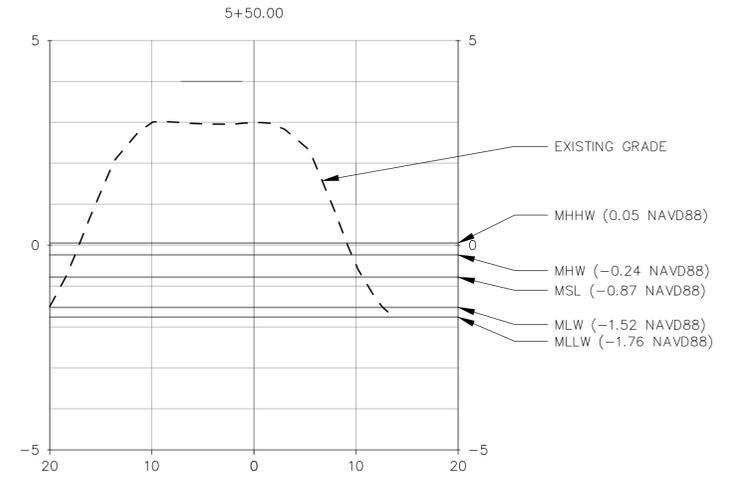
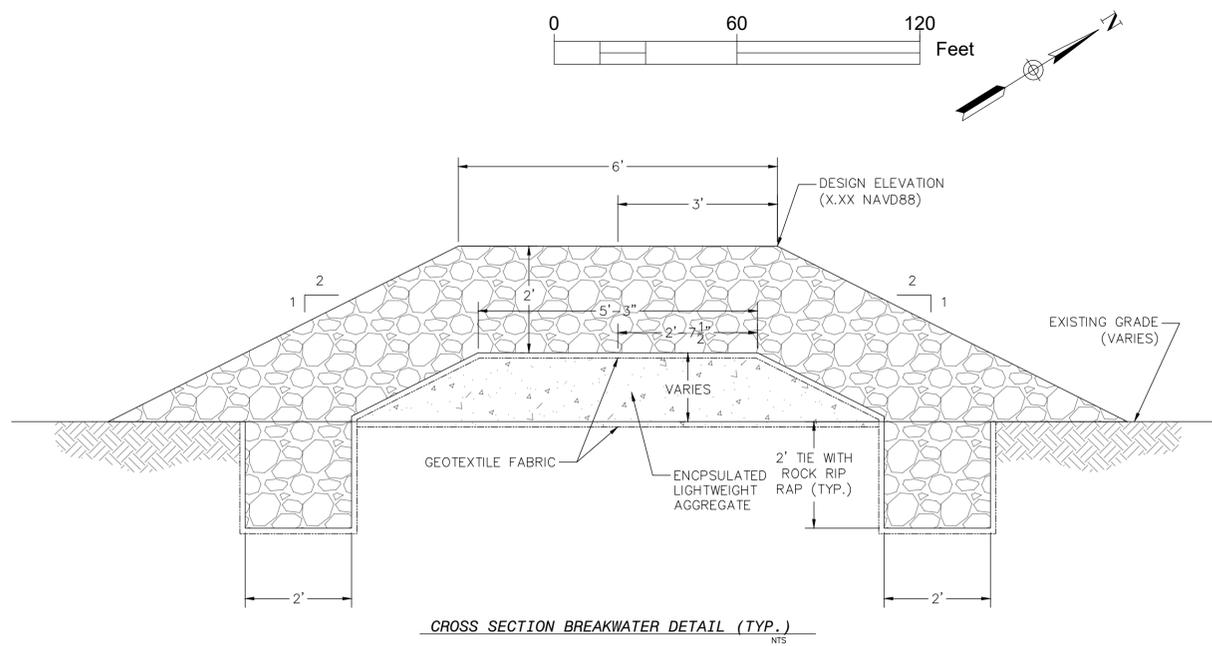
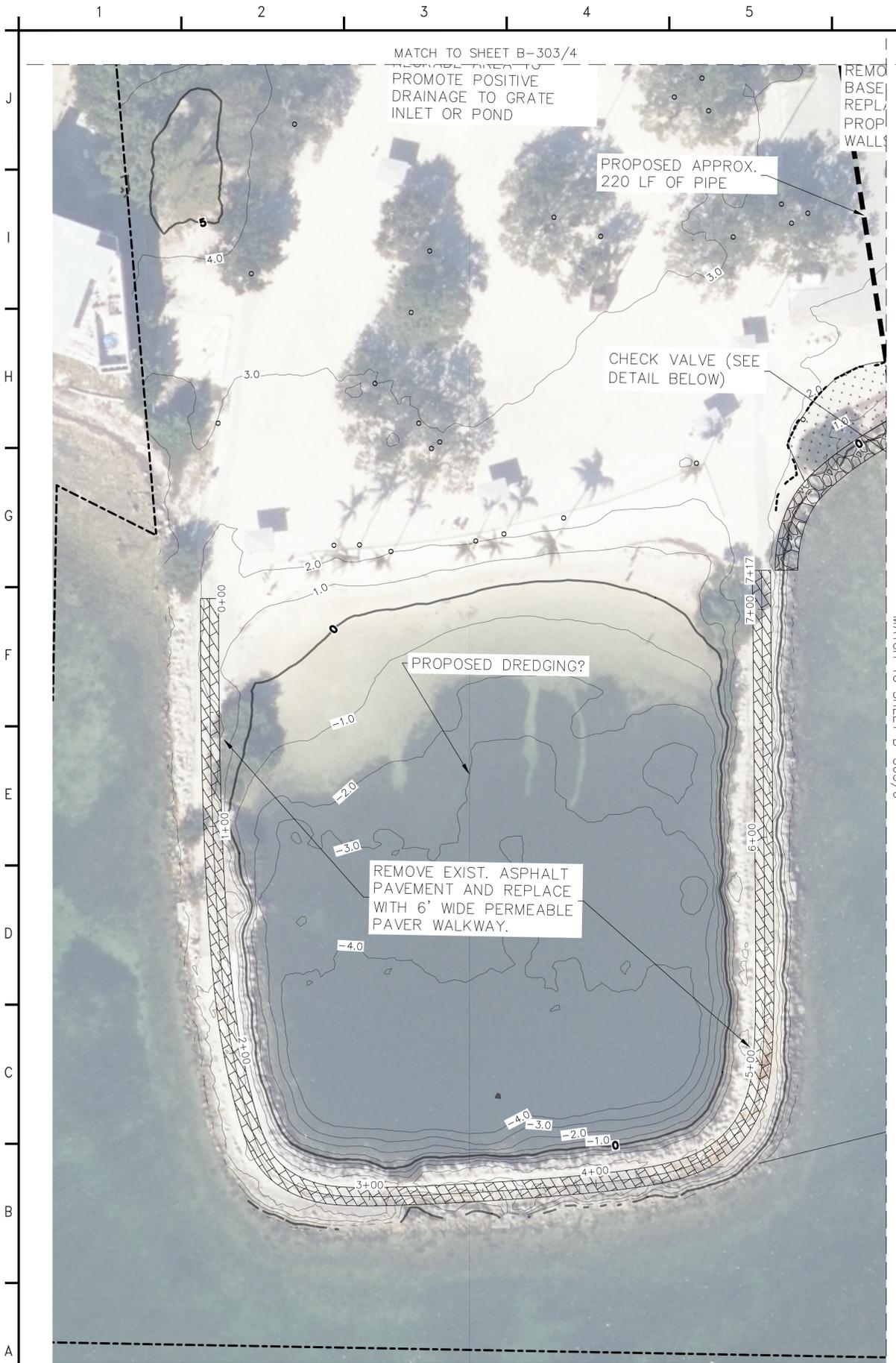
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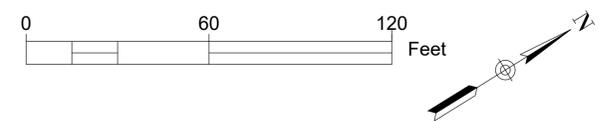
**SHEET TITLE:**  
**ZONE 1 EXISTING CONDITIONS**

SHEET NUMBER:	REV. #
B-301	
SHEET OF SHEETS	



**LEGEND:**

- PROJECT BOUNDARY
- STONE
- EXISTING CULVERT
- TREE
- EXISTING WETLAND LINE
- PROPOSED PERVIOUS PAVER
- PROPOSED COMPOSITE BOARDWALK



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SHEET TITLE:

**ZONE 1 PROPOSED WORK**

SHEET NUMBER:	REV. #
<b>B-302</b>	
SHEET OF SHEETS	



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SHEET TITLE:  
**ZONE 2, 3, & 4  
EXISTING  
CONDITIONS**

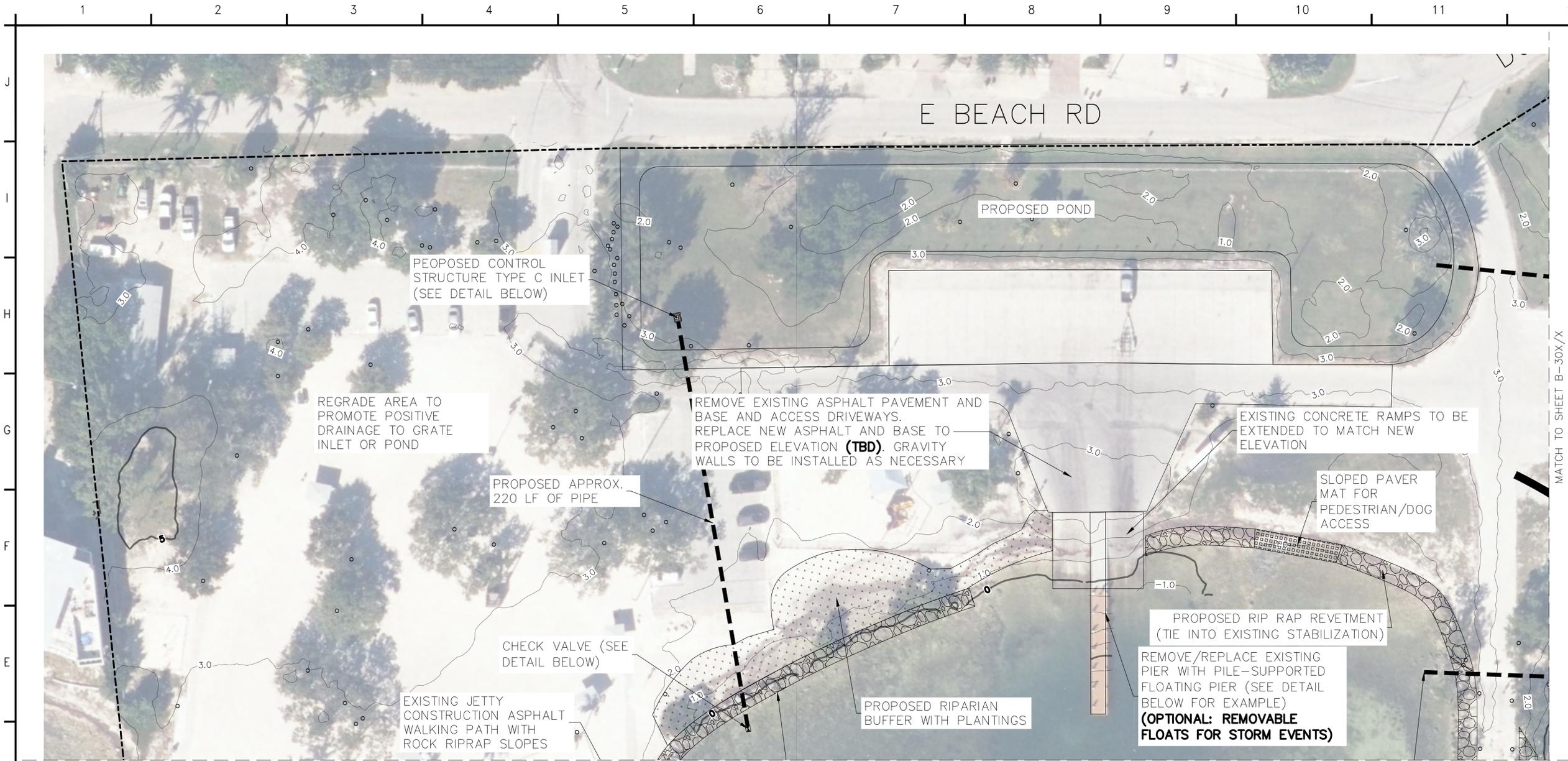
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<b>B-303</b>	
SHEET OF SHEETS	



**LEGEND:**

- PROJECT BOUNDARY
- [STONE PATTERN] STONE
- [DASHED LINE] EXISTING CULVERT
- [CIRCLE] TREE
- [DASHED LINE] EXISTING WETLAND LINE
- [PERVIOUS PAVER PATTERN] PROPOSED PERVIOUS PAVER
- [COMPOSITE BOARDWALK PATTERN] PROPOSED COMPOSITE BOARDWALK





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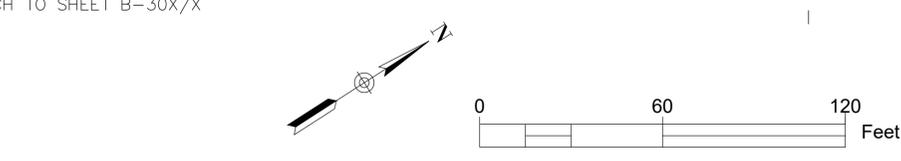
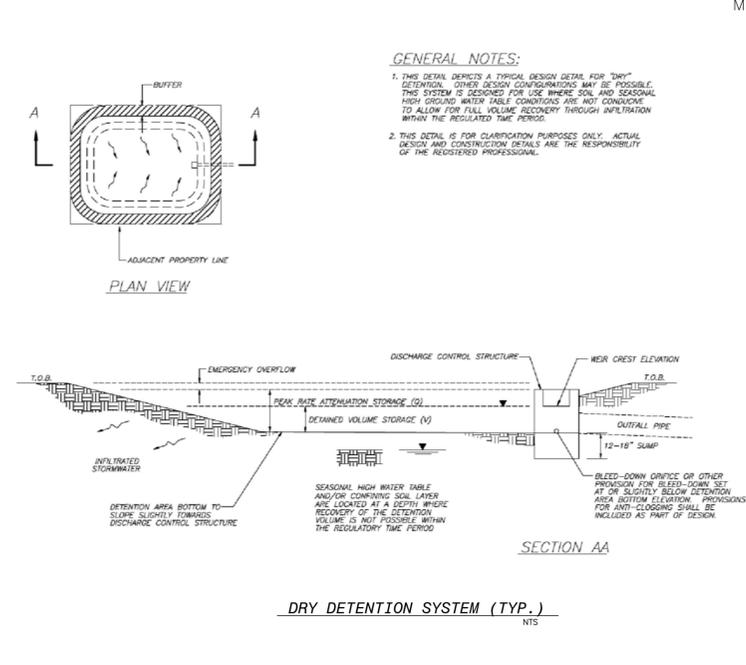
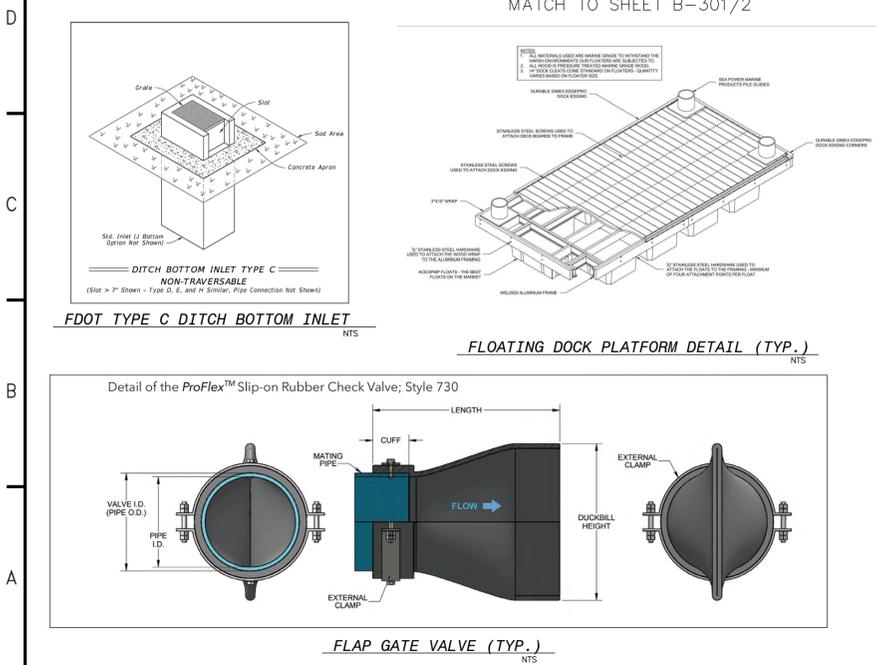
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SHEET TITLE:

**ZONE 2, 3, & 4 PROPOSED WORK**

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B-304	
SHEET OF SHEETS	

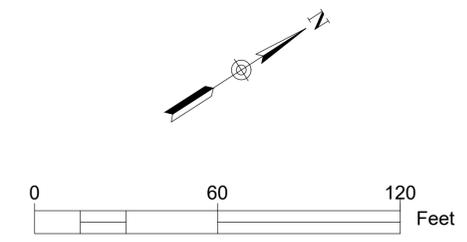
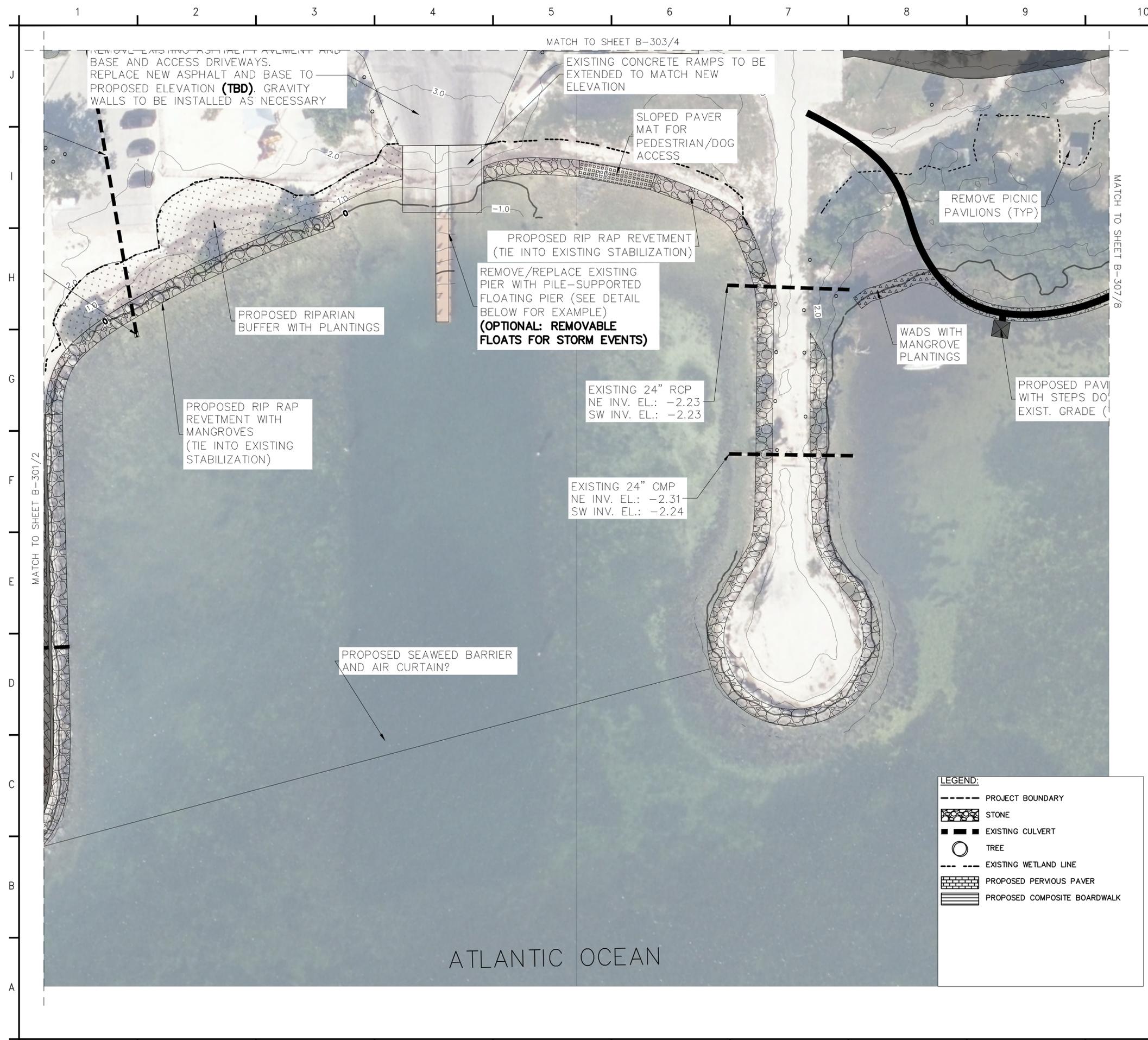


**LEGEND:**

- PROJECT BOUNDARY
- STONE
- EXISTING CULVERT
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- EXISTING WETLAND LINE
- PROPOSED PERVIOUS PAVER
- PROPOSED COMPOSITE BOARDWALK







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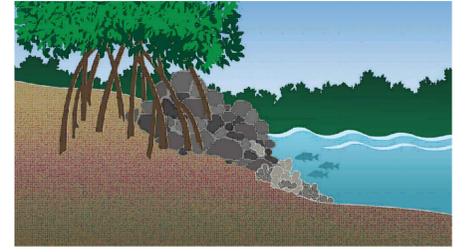
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PARTIAL LIVING SHORELINE (TYP.)  
NTS

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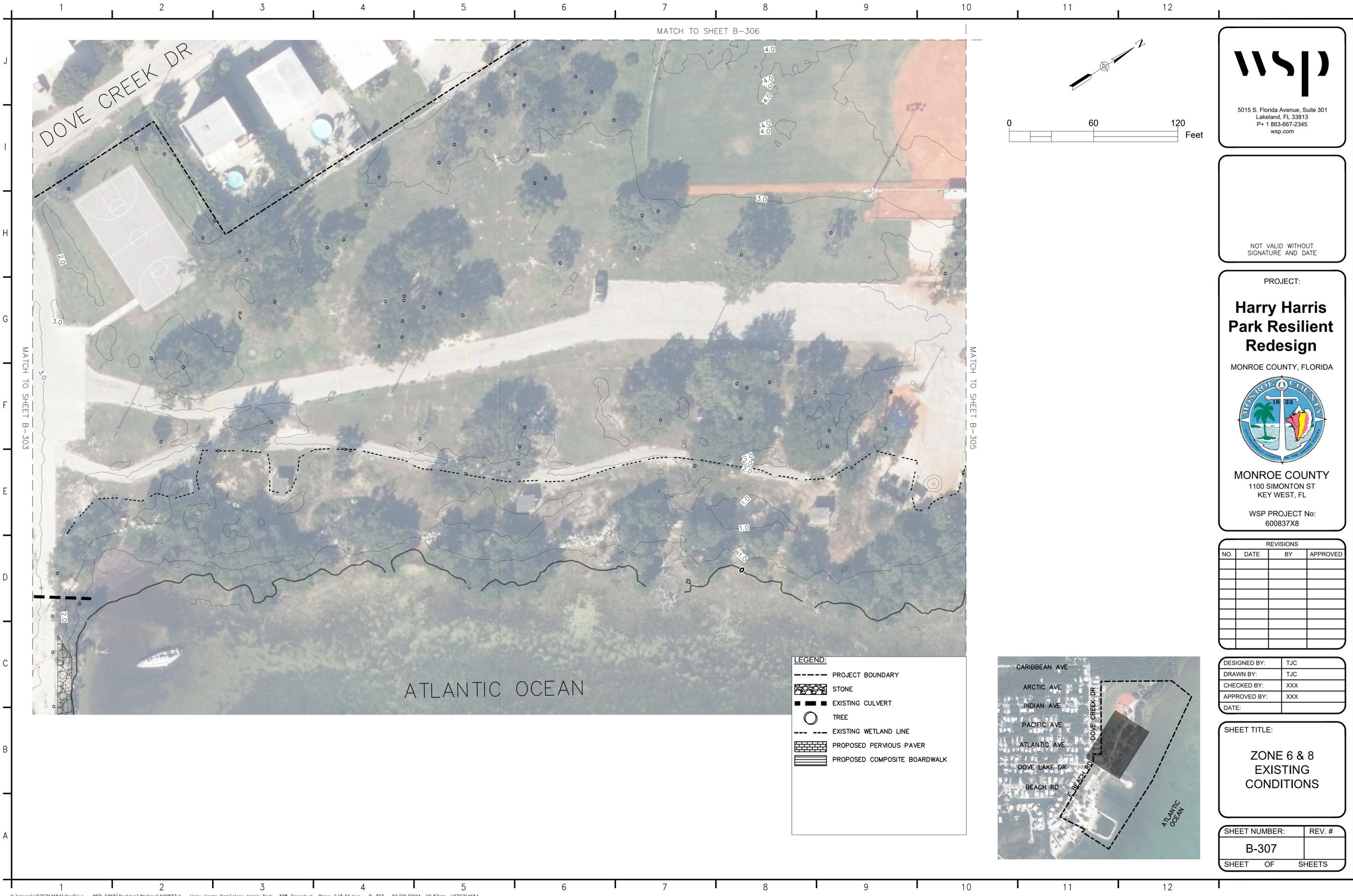
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**ZONE 4 & 5 PROPOSED WORK**

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SHEET OF SHEETS	

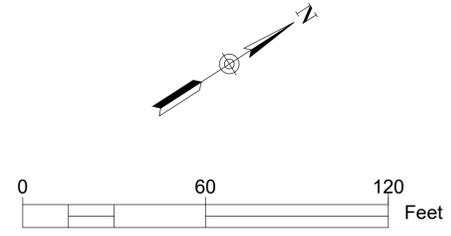


**LEGEND:**

- PROJECT BOUNDARY
- STONE
- EXISTING CULVERT
- TREE
- EXISTING WETLAND LINE
- PROPOSED PERVIOUS PAVER
- PROPOSED COMPOSITE BOARDWALK



MATCH TO SHEET B-306



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APPROVED BY:	XXX
DATE:	

SHEET TITLE:  
**ZONE 6 & 8  
EXISTING  
CONDITIONS**

SHEET NUMBER:	REV. #
<b>B-307</b>	
SHEET OF SHEETS	

**LEGEND:**

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- STONE
- EXISTING CULVERT
- TREE
- EXISTING WETLAND LINE
- PROPOSED PERVIOUS PAVER
- PROPOSED COMPOSITE BOARDWALK

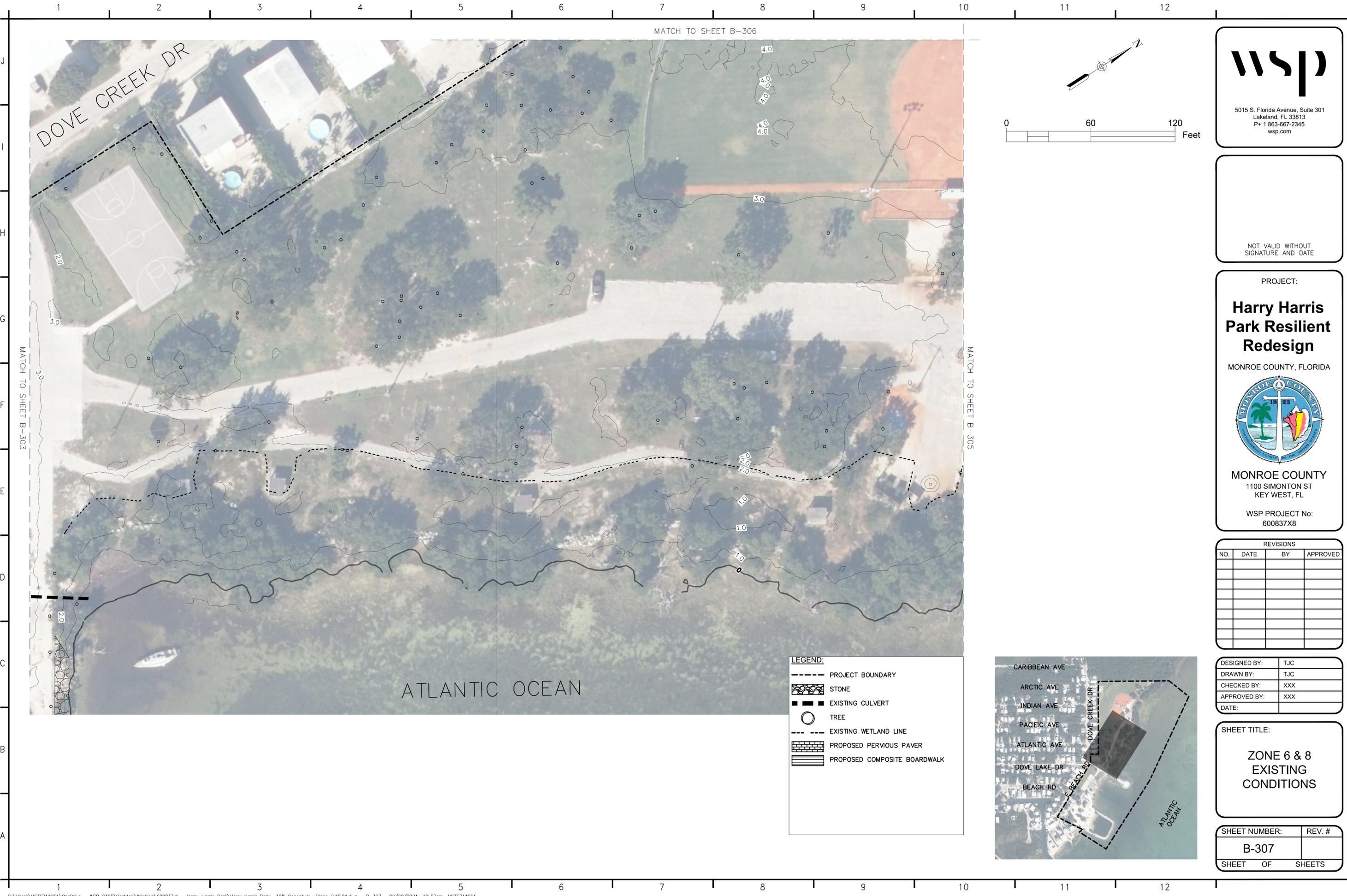


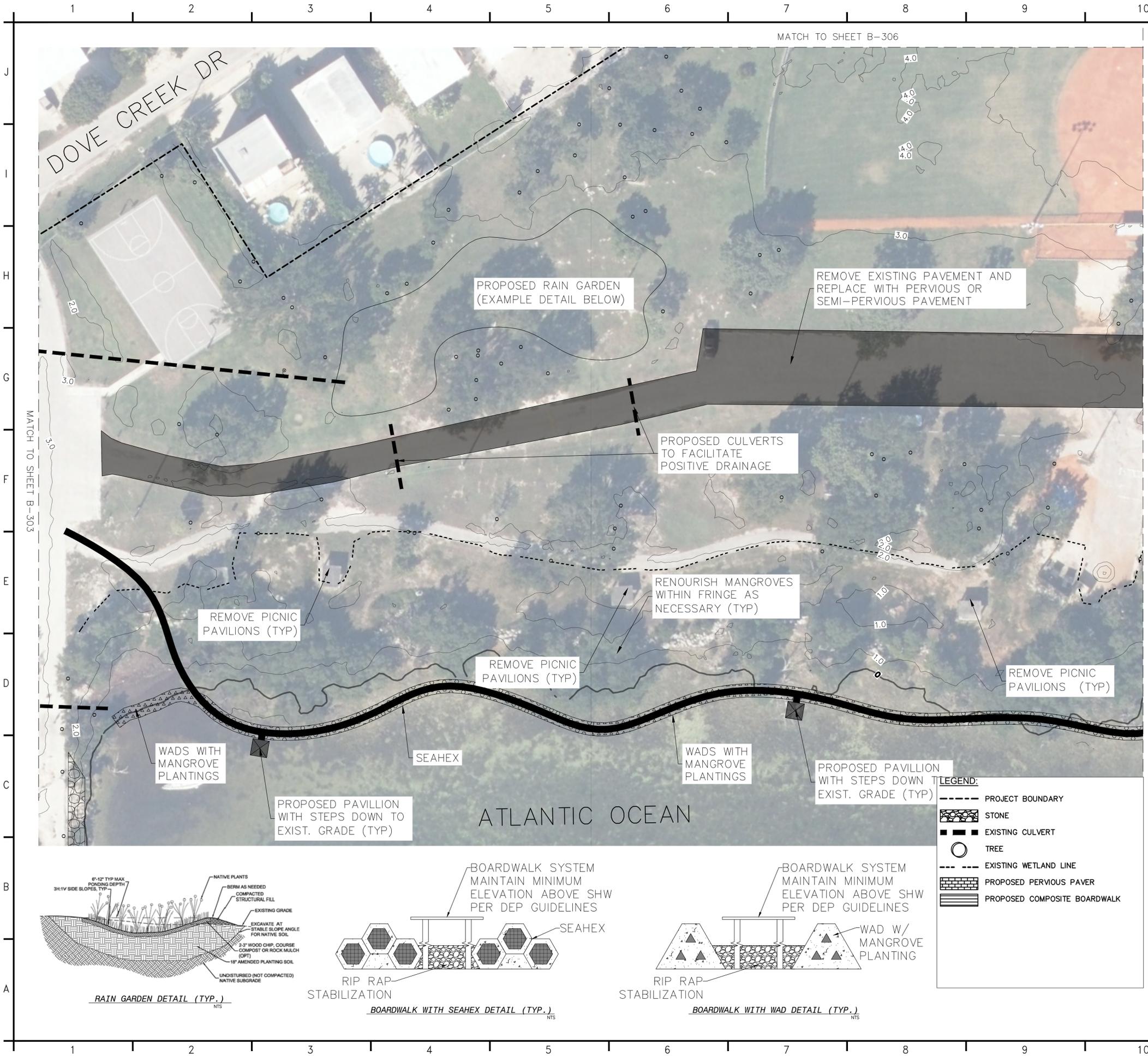
ATLANTIC OCEAN

DOVE CREEK DR

MATCH TO SHEET B-303

MATCH TO SHEET B-305

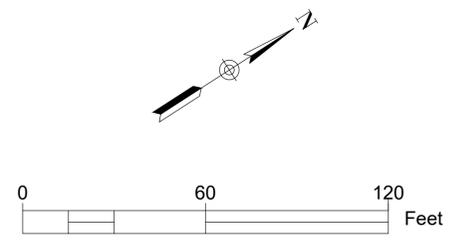




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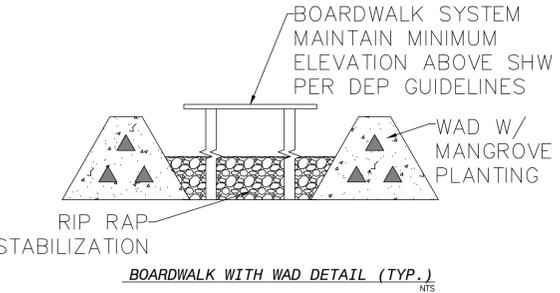
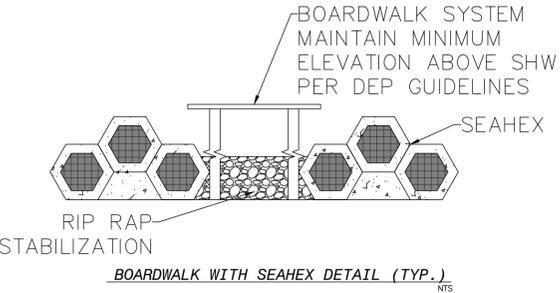
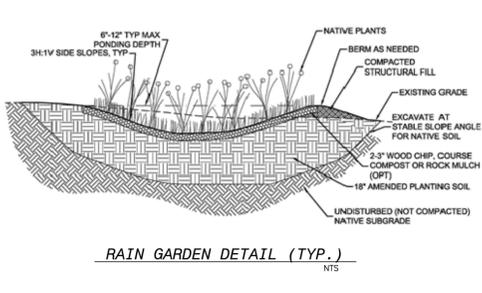
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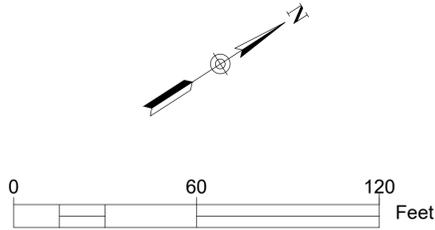
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SHEET TITLE:  
**ZONE 6 & 8 PROPOSED WORK**

SHEET NUMBER:	REV. #
<b>B-308</b>	
SHEET OF SHEETS	



- LEGEND:**
- PROJECT BOUNDARY
  - STONE
  - EXISTING CULVERT
  - TREE
  - EXISTING WETLAND LINE
  - PROPOSED PERVIOUS PAVER
  - PROPOSED COMPOSITE BOARDWALK



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PROJECT:  
**Harry Harris  
Park Resilient  
Redesign**

MONROE COUNTY, FLORIDA



MONROE COUNTY  
1100 SIMONTON ST  
KEY WEST, FL

WSP PROJECT No:  
600837X8

REVISIONS			
NO.	DATE	BY	APPROVED

DESIGNED BY:	TJC
DRAWN BY:	TJC
CHECKED BY:	XXX
APPROVED BY:	XXX
DATE:	

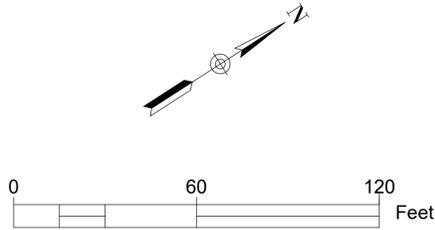
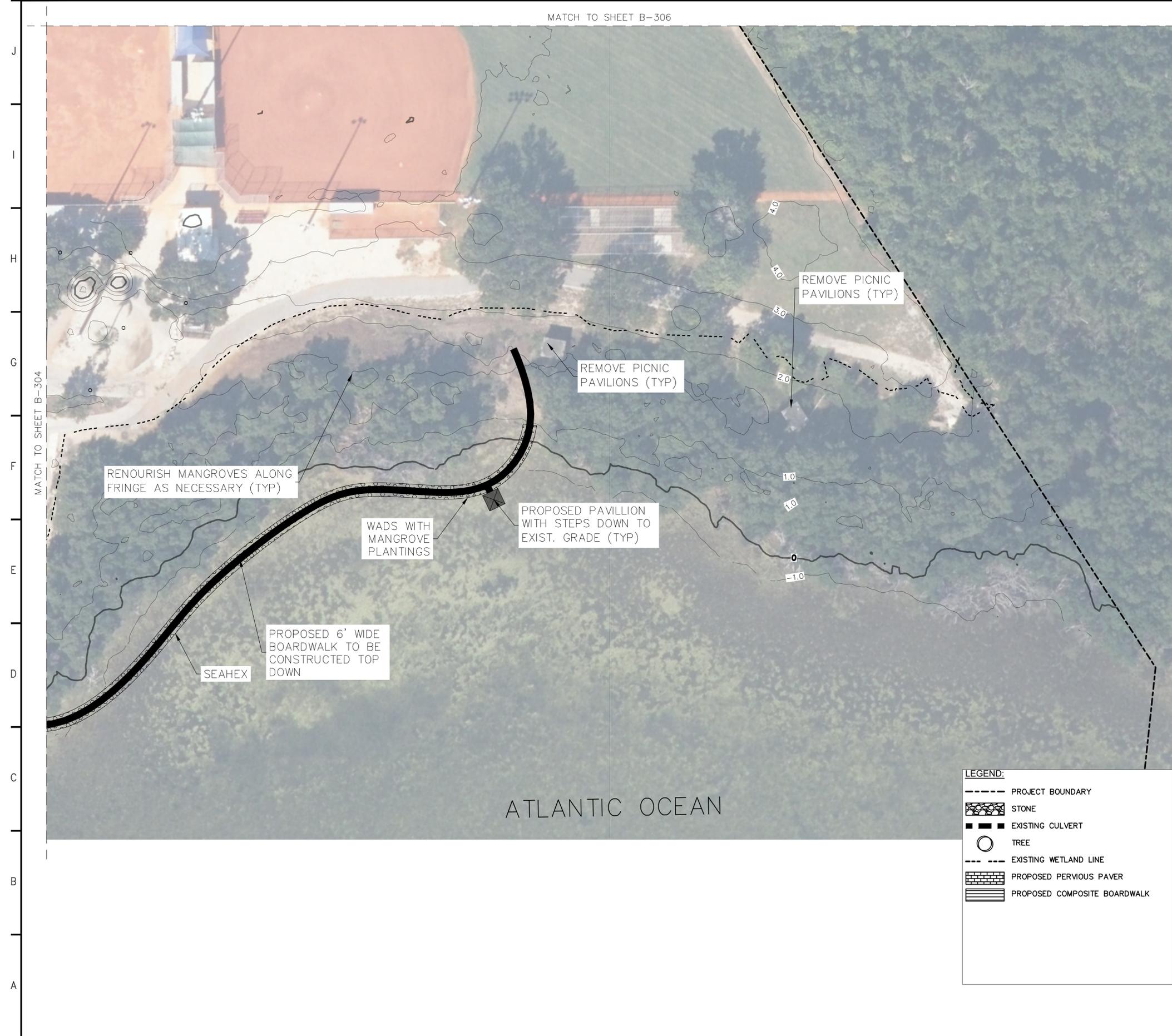
SHEET TITLE:  
**ZONE 6 EXISTING  
CONDITIONS**

SHEET NUMBER:	REV. #
<b>B-309</b>	
SHEET OF SHEETS	

**LEGEND:**

- PROJECT BOUNDARY
- STONE
- EXISTING CULVERT
- TREE
- EXISTING WETLAND LINE
- PROPOSED PERVIOUS PAVER
- PROPOSED COMPOSITE BOARDWALK





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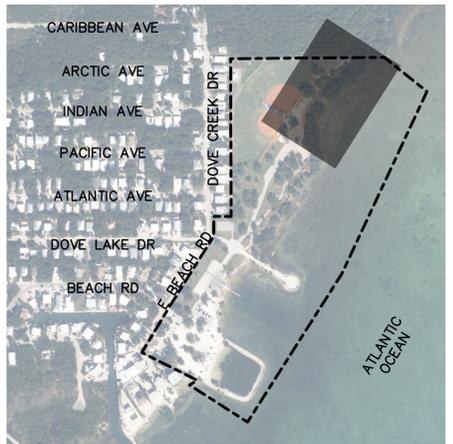
DESIGNED BY:	TJC
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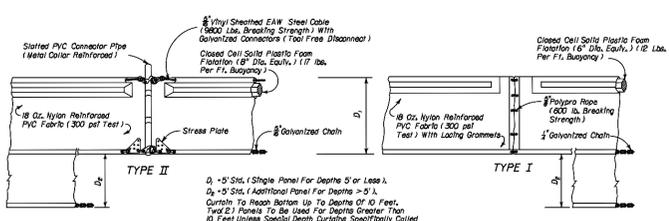
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**ZONE 6 PROPOSED WORK**

SHEET NUMBER:	REV. #
<b>B-310</b>	
SHEET OF SHEETS	

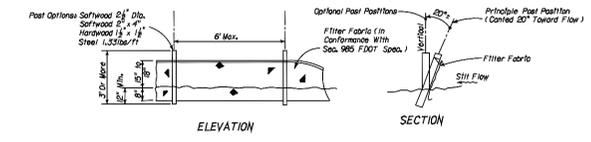
**LEGEND:**

- PROJECT BOUNDARY
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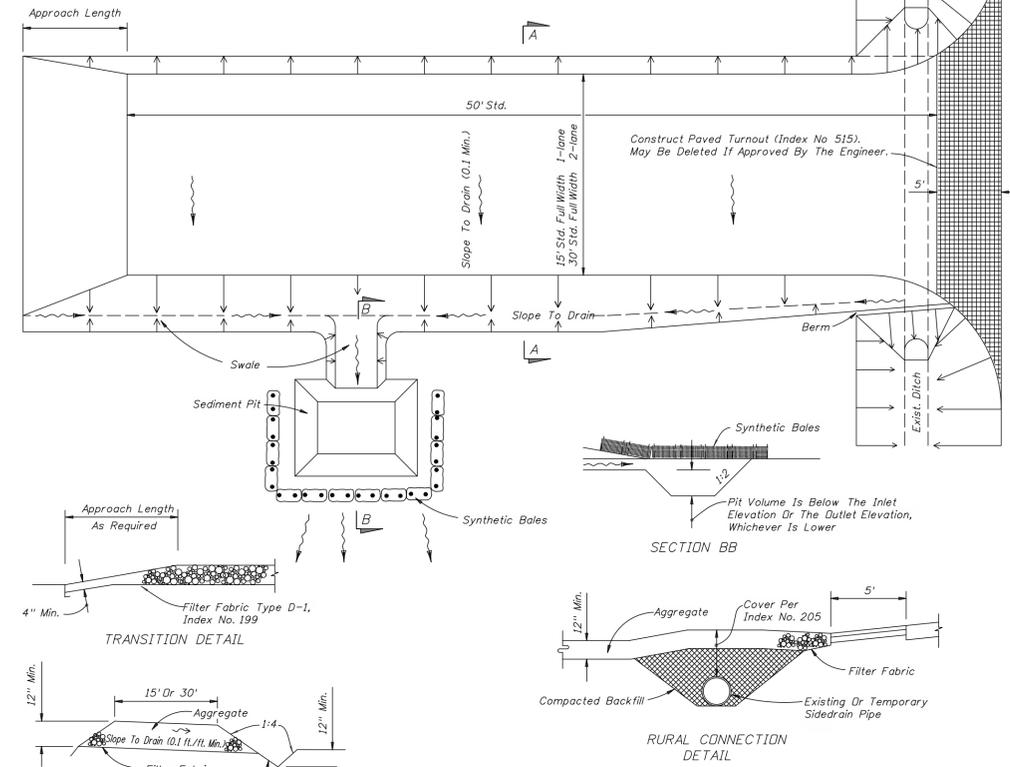




**FLOATING TURBIDITY BARRIERS**  
 NTS



**TYPE III SILT FENCE**  
 NTS



- GENERAL NOTES**
1. A Soil Tracking Prevention Device (STPD) shall be constructed at locations designated by the engineer for points of egress from unstabilized areas of the project to public roads where off-site tracking of mud could occur. Traffic from unstabilized areas of the construction project shall be directed thru a STPD. Barriers, flagging, or other positive means shall be used as required to limit and direct vehicular egress across the STPD.
  2. The Contractor may propose an alternative technique to minimize off-site tracking of sediment. The alternative must be reviewed and approved by the Engineer prior to its use.
  3. All materials spilled, dropped, or tracked onto public roads (including the STPD aggregate and construction mud) shall be removed daily, or more frequently if so directed by the Engineer.
  4. Aggregates shall be as described in Section 901 excluding 901-2.3. Aggregates shall be FDOT size #1. If this size is not available, the next available smaller size aggregate may be substituted with the approval of the Engineer. Sizes containing excessive small aggregate will track off the project and are unsuitable.
  5. The sediment pit should provide a retention volume of 3600 cubic feet/acre of surface area draining to the pit. When the STPD is isolated from other drainage areas, the following pit volumes will satisfy this requirement:  
 15' x 50' = 100 ft.<sup>3</sup>    30' x 50' = 200 ft.<sup>3</sup>  
 As an option to the sediment pit, the width of the swale bottom can be increased to obtain the volume. When the sediment pit or swale volume has been reduced to one half, it shall be cleaned. When a swale is used, synthetic bales or silt fence shall be placed along the entire length.
  6. The swale ditch draining the STPD shall have a 0.02% minimum and a 1.0% maximum grade along the STPD and to the sediment pit.
  7. Mitered end sections are not required when the sidedrain pipe satisfies the clear zone requirements.
  8. The STPD shall be maintained in a condition that will allow it to perform its function. To prevent off-site tracking, the STPD shall be rinsed (daily when in use) to move accumulated mud downward thru the stone. Additional stabilization of the vehicular route leading to the STPD may be required to limit the mud tracked.
  9. A STPD shall be paid for under the contract unit price for Soil Tracking Prevention Device, E.A. The unit price shall constitute full compensation for construction, maintenance, replacement of materials, removal, and restoration of the area utilized for the STPD; including but not limited to excavation, grading, temporary pipe (including MES when required), filter fabric, aggregate, paved turnout (including asphalt and base construction), ditch stabilization, approach route stabilization, sediment removal and disposal, water, rinsing and cleaning of the STPD and cleaning of public roads, grassing and sod. Synthetic Bale or Bale Type Barrier shall be paid for under the contract unit price for Synthetic Bales, L.F. Silt fence shall be paid for under the contract unit price for Staked Silt Fence, L.F.
  10. The nominal size of a standard STPD is 15' x 50' unless otherwise shown in the plans. If the volume of entering and existing vehicles warrant, a 30' width STPD may be used if approved by the Engineer. When a double width (30') STPD is used, the pay quantity shall be 2 for each location.



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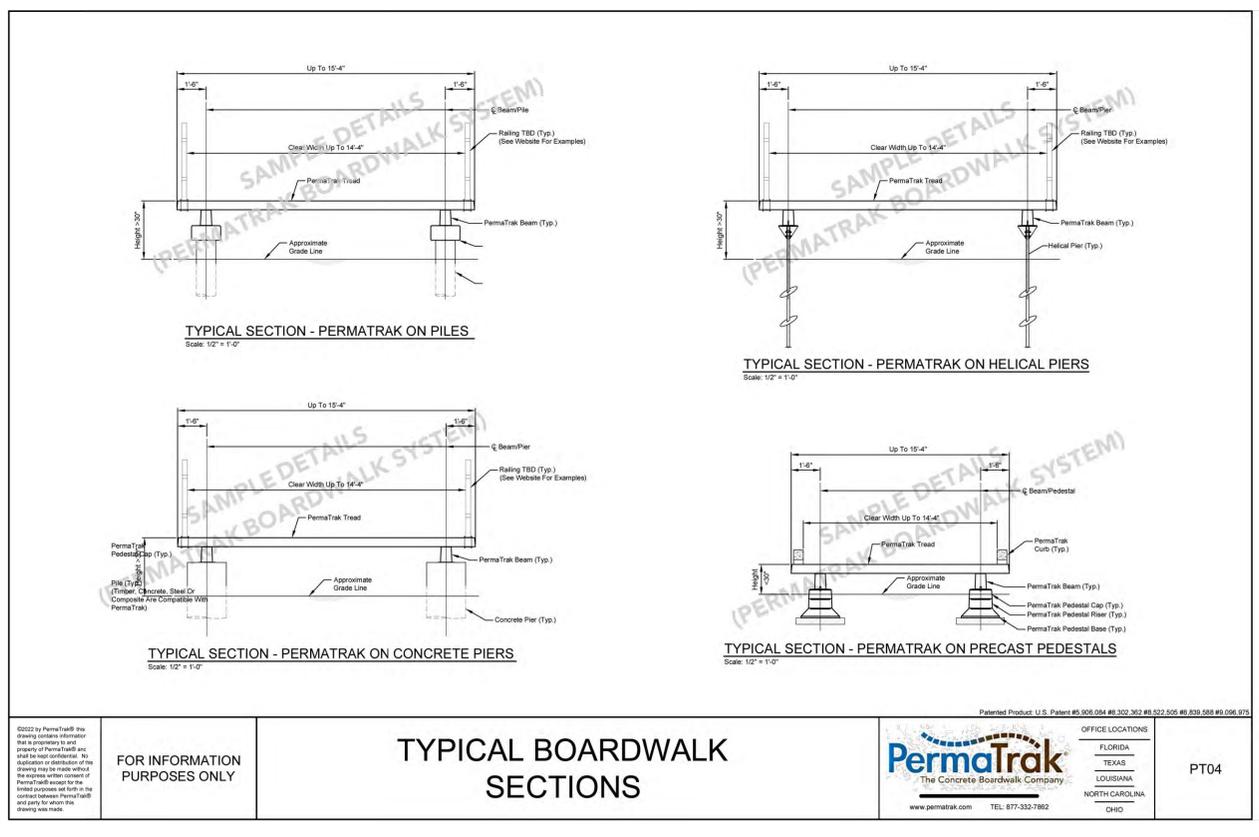
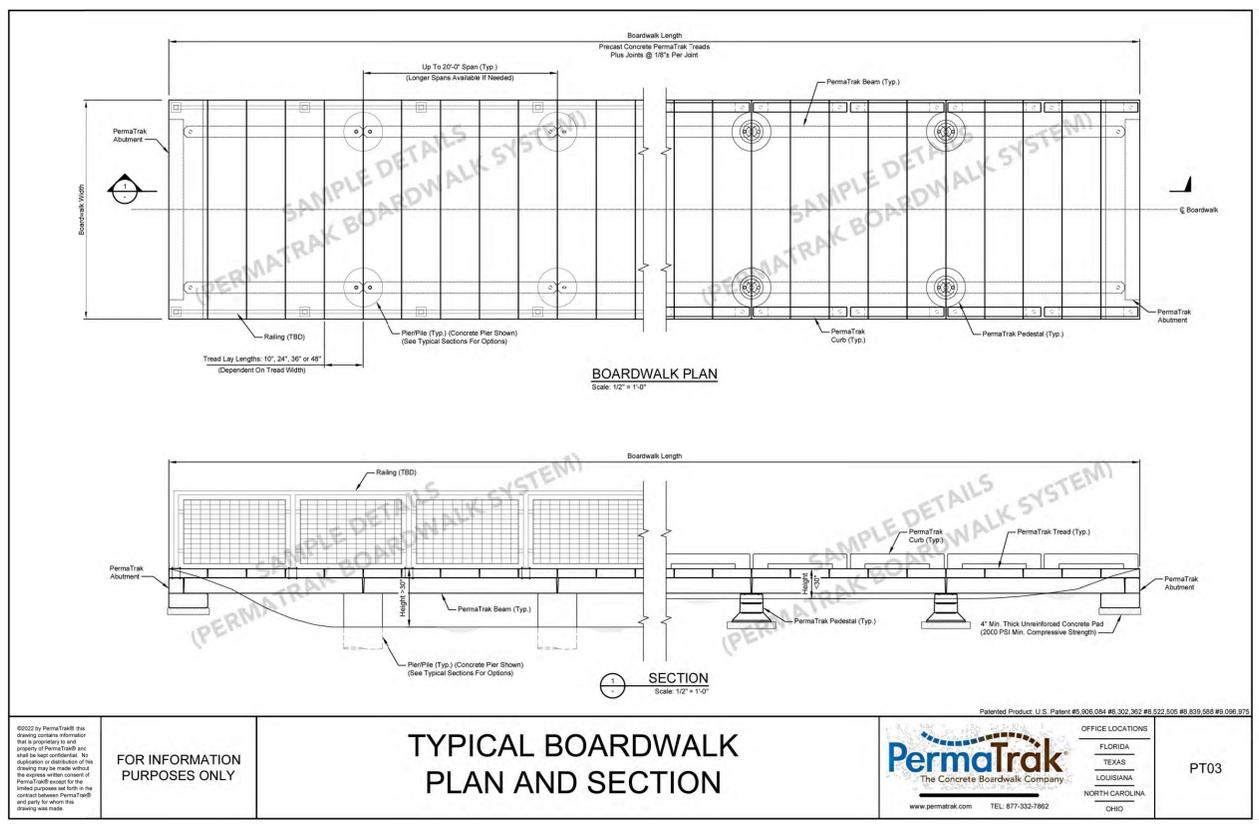
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SHEET TITLE:  
**DESIGN DETAILS**

SHEET NUMBER:	REV. #
<b>B-311</b>	
SHEET OF SHEETS	



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SHEET TITLE:  
**BOARDWALK DETAILS**

SHEET NUMBER:	REV. #
B-312	
SHEET OF SHEETS	