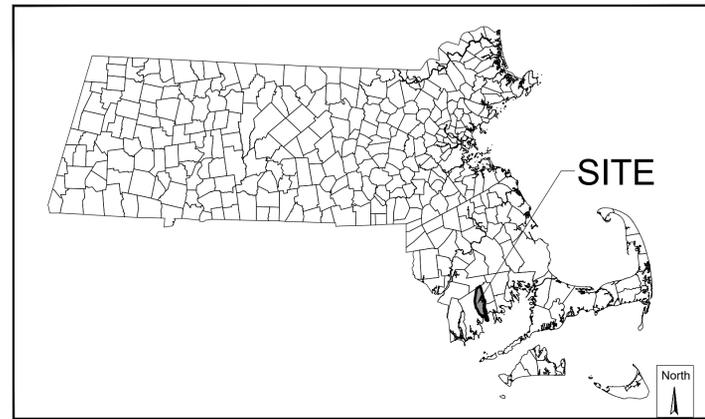
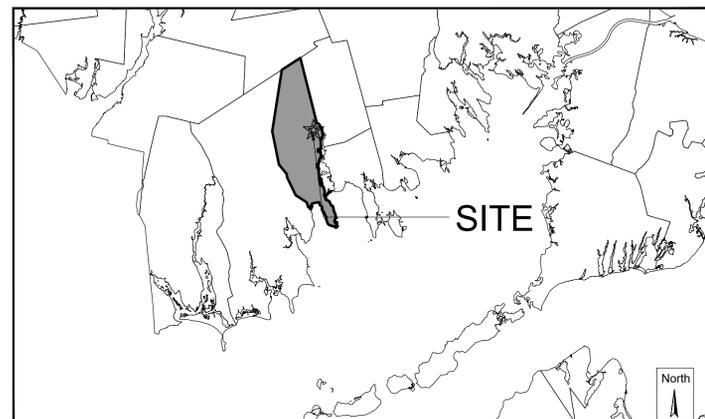


# BROOKLAWN PARK CONSTRUCTED WETLAND RETROFIT CONSTRUCTION PLANS NEW BEDFORD, MASSACHUSETTS APRIL 2022



MASSACHUSETTS

Graphic Scale  
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SCALE IN FEET  
1:150000



CITY OF NEW BEDFORD

Graphic Scale  
0 12000  
SCALE IN FEET  
1:12000



VICINITY MAP

Graphic Scale  
1-inch = 500-feet

Sheet List Table	
Sheet Number	Sheet Title
1	COVER
2	NOTES & LEGEND
3	EXISTING CONDITIONS
4	DEMO AND SITE PREPARATION
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7	DETAILS
8	SEEDING PLAN
9	PLANTING PLAN
10	PLANTING DETAILS

GENERAL NOTES:  
1. THIS PLAN SET IS FOR CONSTRUCTION.

Plan Set: **BROOKLAWN PARK CONSTRUCTED WETLAND  
RETROFIT  
CONSTRUCTION PLANS  
NEW BEDFORD, MASSACHUSETTS**

Prepared For: **Parks and Recreation, City of New Bedford  
133 William Street  
New Bedford, MA  
(508)979-1400**

Prepared By: **Horsley Witten Group, Inc.  
Sustainable Environmental Solutions  
www.horsleywitten.com**

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 294 Washington Street Suite 801, Boston, MA 02108, (857) 263-8193 voice, (617) 574-4799 fax  
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Date Issued: APRIL 2022	Registration: 	Revisions	Project Number: 21138
Designed By: KF/EB			Sheet Number: 1 of 10
Drawn By: KF/EB			Drawing Number: C-1
Checked By: BRK			

last modified: 04/14/22 printed: 04/14/22 by: ab 1:12p page: 02/02/21 08 Brooklawn Park, New Bedford Drawing: 0118 C-1.dwg

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GENERAL CONSTRUCTION NOTES:

- 1. ALL SITE WORK TO COMPLETE THIS PROJECT AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
2. IMMEDIATELY CONTACT AND COORDINATE WITH THE ENGINEER AND THE CITY IF ANY DEVIATION OR ALTERATION OF THE WORK PROPOSED ON THESE DRAWINGS IS REQUIRED.
3. UTILIZE ALL PRECAUTIONS AND MEASURES TO ENSURE THE SAFETY OF THE PUBLIC, ALL PERSONNEL AND PROPERTY DURING CONSTRUCTION IN ACCORDANCE WITH OSHA STANDARDS...

GENERAL DEMOLITION NOTES:

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE CITY AND PROJECT ENGINEER INVOLVED WITH THE PROPOSED CONSTRUCTION TO DEVELOP A SUITABLE DEMOLITION PLAN, WHICH WILL ALLOW THE FACILITIES TO REMAIN IN OPERATION DURING THE ENTIRETY OF CONSTRUCTION.
1. UNLESS OTHERWISE NOTED, THE CONTRACTOR IS RESPONSIBLE FOR THE RELOCATION, DEMOLITION, REMOVAL AND DISPOSAL, IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES...

EROSION & SEDIMENT CONTROL NOTES:

- 1. DESIGNATE THE SITE CONSTRUCTION FOREMAN AS THE ON-SITE PERSONNEL RESPONSIBLE FOR THE DAILY INSPECTION AND MAINTENANCE OF ALL SEDIMENT AND EROSION CONTROLS AND IMPLEMENTATION OF ALL NECESSARY MEASURES TO CONTROL EROSION AND PREVENT SEDIMENT FROM LEAVING THE SITE.
2. INSTALL ALL EROSION AND SEDIMENT CONTROL (ESC) MEASURES AS INDICATED ON DRAWINGS IN CONSULTATION WITH THE CONSERVATION AGENT, AND ENGINEER BEFORE ANY CONSTRUCTION ACTIVITIES BEGIN...

- 8. SURROUND THE PERIMETER OF SOIL STOCKPILES WITH SILT SOCK, SILT FENCE, STRAWBALES, OR A COMBINATION OF SILT FENCE WITH STRAWBALE, AS DETERMINED NECESSARY.
9. DISTURBED AREAS AND SLOPES MUST NOT BE LEFT UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON...
10. INSTALL A SILT SACK OR APPROVED EQUIVALENT IN EACH EXISTING CATCH BASIN RECEIVING RUNOFF FROM THE SITE...

CONSTRUCTION SEQUENCE AND REQUIRED INSPECTIONS:

THE FOLLOWING CONSTRUCTION SEQUENCE IS TO BE USED AS A GENERAL GUIDELINE. COORDINATE WITH THE CITY, ENGINEERS, AND LANDSCAPE ARCHITECTS AND SUBMIT A PROPOSED CONSTRUCTION SEQUENCE FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

- 1. PRECONSTRUCTION MEETING
2. SURVEY AND STAKE THE PROPOSED LIMIT OF DISTURBANCE, LIMIT OF SEDIMENTATION BARRIERS AND TREE PROTECTION FENCING.
3. PLACE SEDIMENTATION BARRIERS (STRAWBALES, SILT SOCK, SILT FENCE, ETC.) AS INDICATED ON DRAWINGS AND STAKED OUT IN THE FIELD...
4. INSTALL TEMPORARY CONSTRUCTION ENTRANCES IN LOCATIONS INDICATED ON DRAWINGS...

NOTES:
(1) MANDATORY NOTIFICATION/APPROVAL OF THE PROJECT ENGINEER IS REQUIRED PRIOR TO PROCEEDING WITH NEXT STAGE. CALL THE ENGINEER (HORSLEY WITTEN GROUP, INC.) AT 508-833-6600 PRIOR TO 12:00 NOON THE PROCEEDING DAY TO ARRANGE FOR INSPECTION.

DEWATERING:

- 12. A HIGH WATER TABLE IS ANTICIPATED. DEWATERING IS REQUIRED DURING EXCAVATION, TEMPORARILY LOWER THE WATER TABLE BY PUMPING. INSTALL A DEWATERING BASIN AS INDICATED IN THE DEWATERING BASIN DETAIL, AND PROVIDE A DEWATERING PLAN DEPICTING PROPOSED DEWATERING LOCATION FOR REVIEW AND APPROVAL...
13. PRIOR TO ANY DEWATERING, THE DEWATERING PLAN MUST BE APPROVED BY THE ENGINEER.

STORMWATER FACILITY OPERATION & MAINTENANCE:

THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER INSPECTION AND MAINTENANCE OF ALL STORMWATER MANAGEMENT FACILITIES WITHIN THE LIMIT OF WORK AS OUTLINED BELOW DURING CONSTRUCTION AND UNTIL SUCH TIME THAT THE PROJECT IS ACCEPTED BY THE CITY AND THE ENGINEER.

- 1. INSPECT AND RESTORE/CLEAN ALL FACILITIES (INLETS, CATCH BASINS, MANHOLES, INFILTRATION BASINS, STORMWATER MANAGEMENT AREAS AS DESCRIBED BELOW OF SEDIMENT AND DEBRIS PRIOR TO THE CITY'S ACCEPTANCE.
2. REMOVE AND DISPOSE ALL SEDIMENT AND DEBRIS TO A PRE-APPROVED LOCATION.
3. AT A MINIMUM INSPECT MONTHLY AND AFTER STORM EVENTS GREATER THAN OR EQUAL TO 1" OF RAINFALL AS NECESSARY FOR THE ENTIRE DURATION OF THE CONSTRUCTION PROJECT...

ROOT PRUNING:

- ALL ROOTS ABOVE 1" IN DIAMETER ENCOUNTERED DURING DEMOLITION OR CONSTRUCTION SHALL BE ROOT PRUNED.
1. CUT ROOT CLEAN WITH A SAW ON THE SURFACE OF THE ROOT, WHICH IS STILL ATTACHED TO THE TREE. DO NOT PAINT THE CUT ROOT END.
2. ROOT PRUNING WORK WILL NOT BE DONE WHEN MORE THAN THE TOP 1 INCH OF SOIL IS FROZEN. ROOT PRUNING WILL NOT BE UNDERTAKEN WHEN THE SOIL IS WET AND CONDITIONS ARE MUDDY.

Revisions table with columns for No., Date, By, Appr., Description.

Project information including: Project No. 21138, Sheet 2 of 10, Date APRIL 2022, and company details for Horsley Witten Group, Inc.

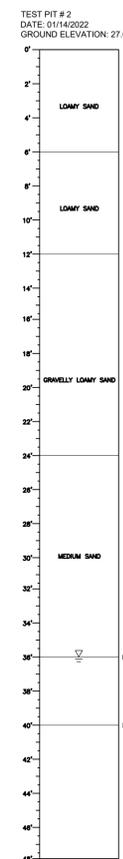
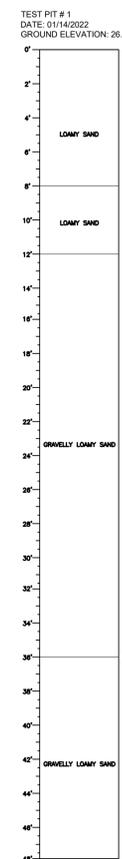
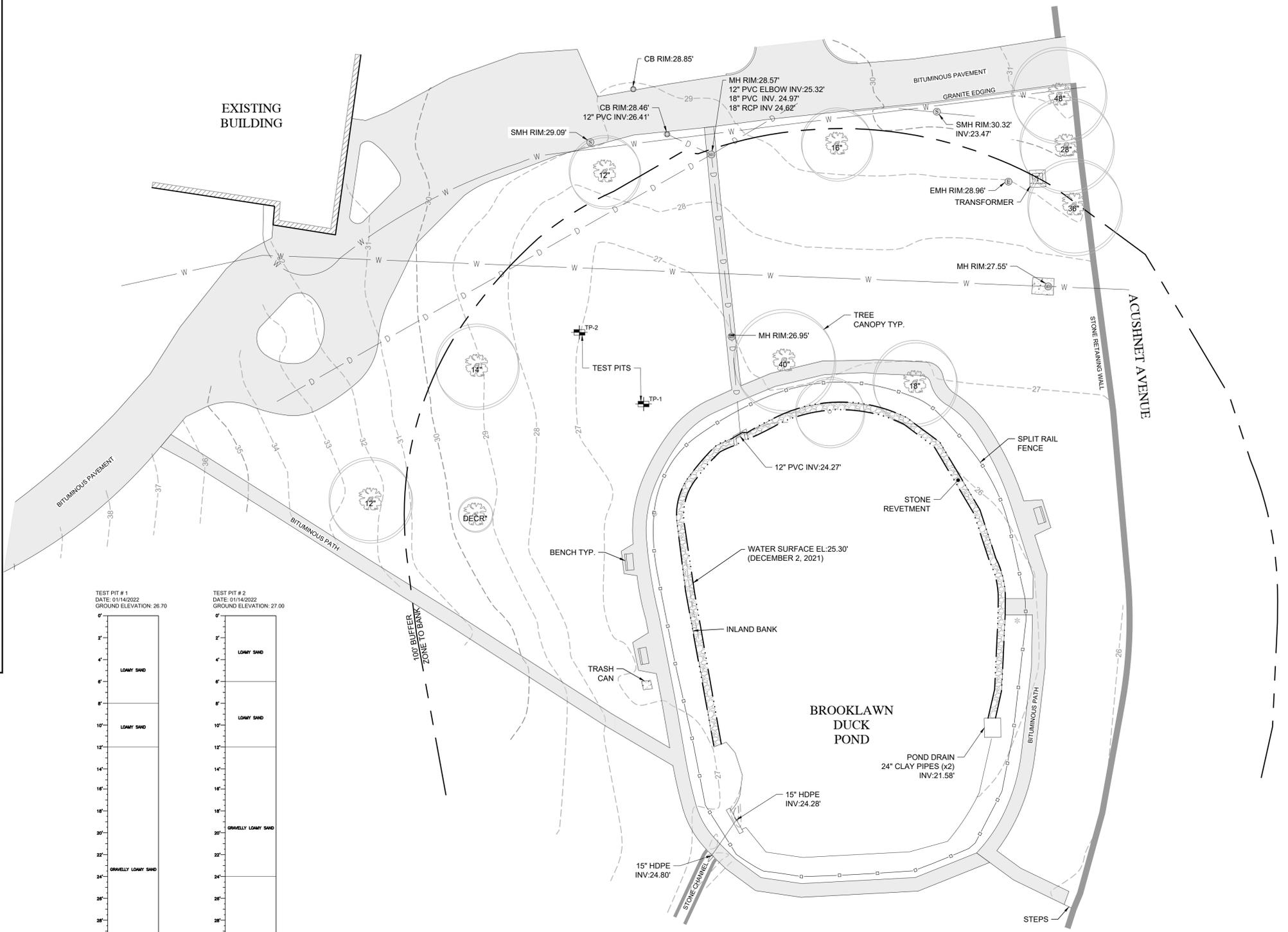
Project title: BROOKLAWN PARK CONSTRUCTED WETLAND RETROFIT CONSTRUCTION PLANS NEW BEDFORD, MASSACHUSETTS. Includes a CONSTRUCTION NOTES & LEGEND section.

Prepared For: Parks and Recreation, City of New Bedford. Contact information for 133 William Street, New Bedford, MA.

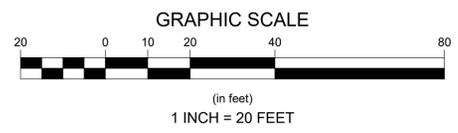
Survey Provided By: Horsley Witten Group, Inc. Registration information and a professional seal for Richard A. Clayton, Professional Engineer No. 45116.

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LEGEND:	
<b>GENERAL</b>	<b>SYMBOLS</b>
<b>PROPERTY INFORMATION</b>	
<b>UTILITIES</b>	
<b>ENVIRONMENTAL</b>	



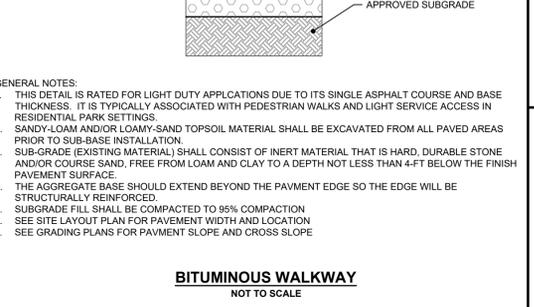
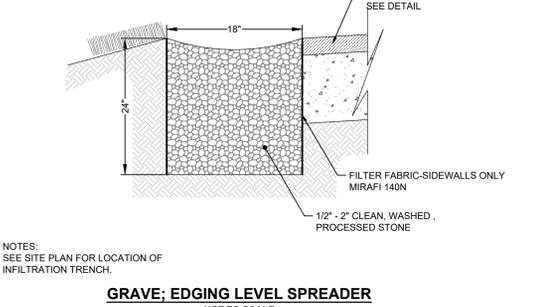
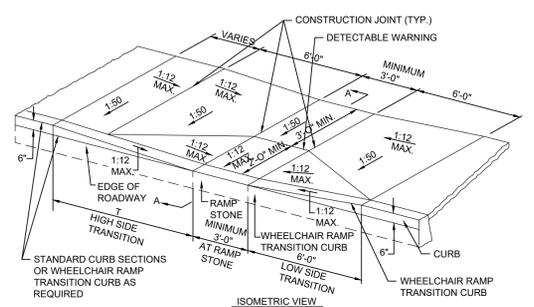
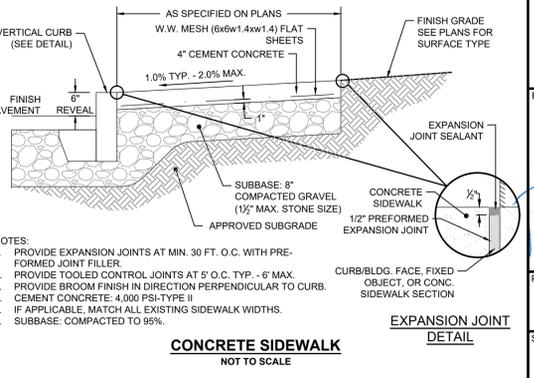
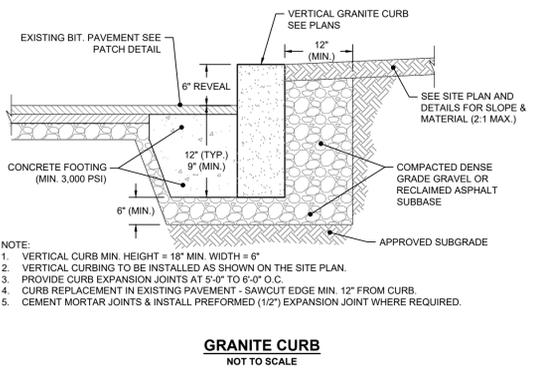
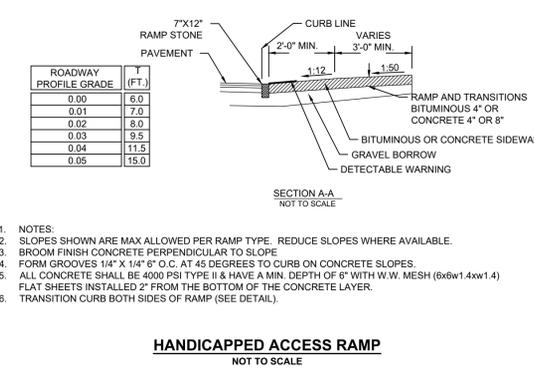
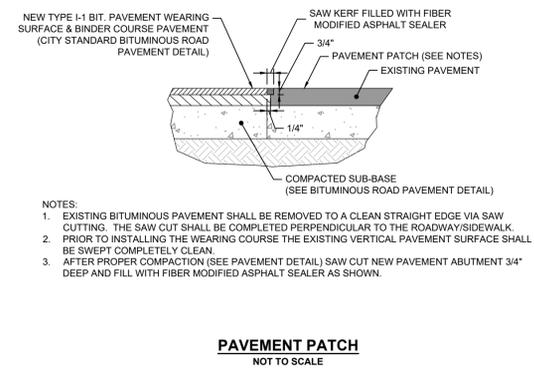
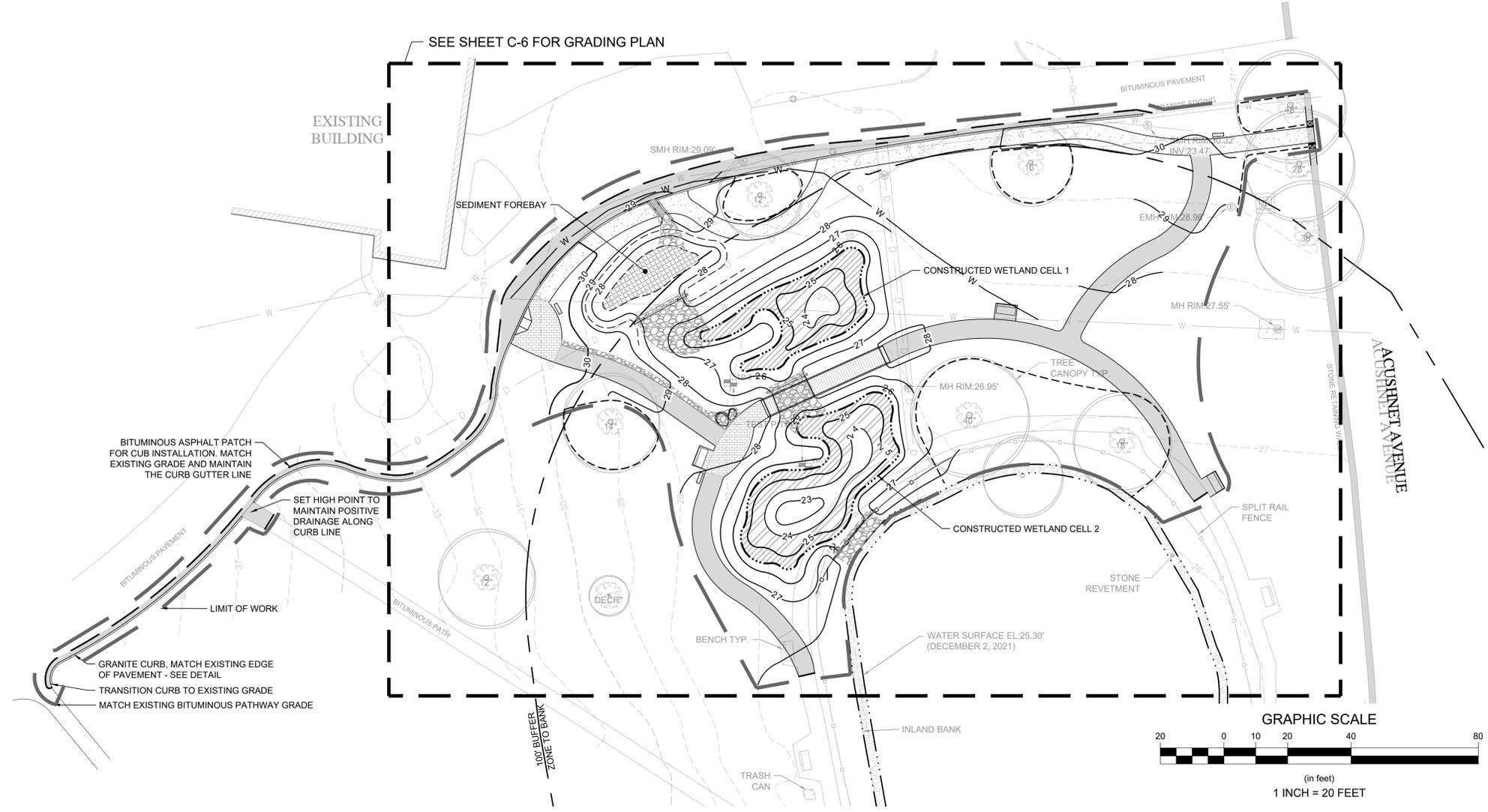
- SURVEY NOTES**
1. THE TOPOGRAPHY AND EXISTING SITE CONDITIONS DEPICTED HEREON ARE THE RESULT OF AN ON THE GROUND FIELD SURVEY CONDUCTED BY THE HORSLEY WITTEN GROUP, INC. DECEMBER 2, 2021.
  2. HORIZONTAL DATUM IS MASS STATE PLANE COORDINATE SYSTEM. DATUM ESTABLISHED BY GPS RTK.
  3. THE ELEVATIONS DEPICTED HEREON WERE BASED ON THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.
  4. THE ACCURACY OF MEASURED PIPE INVERTS AND PIPE SIZES IS SUBJECT TO FIELD CONDITIONS. THE ABILITY TO MAKE VISUAL OBSERVATIONS, DIRECT ACCESS TO THE VARIOUS ELEMENTS AND OTHER CONDITIONS.
  5. THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF VARIOUS UTILITY COMPANIES, AND WHEREVER POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD PRIOR TO THE START OF ANY CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY IN THE CITY OF NEW BEDFORD, AND "DIGSAFE" (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK IN PREVIOUSLY UNALTERED AREAS TO REQUEST EXACT FIELD LOCATION OF UTILITIES.
  6. THE LOCATION OF THE UNDERGROUND WATER LINES WAS TAKEN FROM THE PLAN ENTITLED, "PROPOSED BASEBALL FIELDS," BY THE CITY OF NEW BEDFORD DEPARTMENT OF PUBLIC INFRASTRUCTURE, DATED MARCH 24, 2010.



<p><b>Revisions</b></p> <table border="1"> <thead> <tr> <th>No.</th> <th>Date</th> <th>By</th> <th>Appr.</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>7</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>8</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>9</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>10</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		No.	Date	By	Appr.	Description	1					2					3					4					5					6					7					8					9					10				
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<p><b>Brooklawn Park Constructed Wetland Retrofit Construction Plans</b> New Bedford, Massachusetts</p>																																																								
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<p>Survey Provided By: <b>Horsley Witten Group, Inc.</b> 90 Route 6A Sandwich, MA 02563 Phone: (508) 833-6600 Fax: (508) 833-3150 Dated: December 2, 2021</p>																																																								
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Checked By: BRK  
Drawn By: KFEB  
Designed By: KFEB  
Date: APRIL 2022

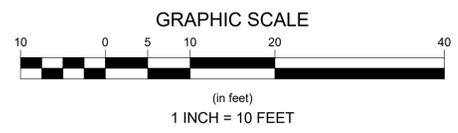
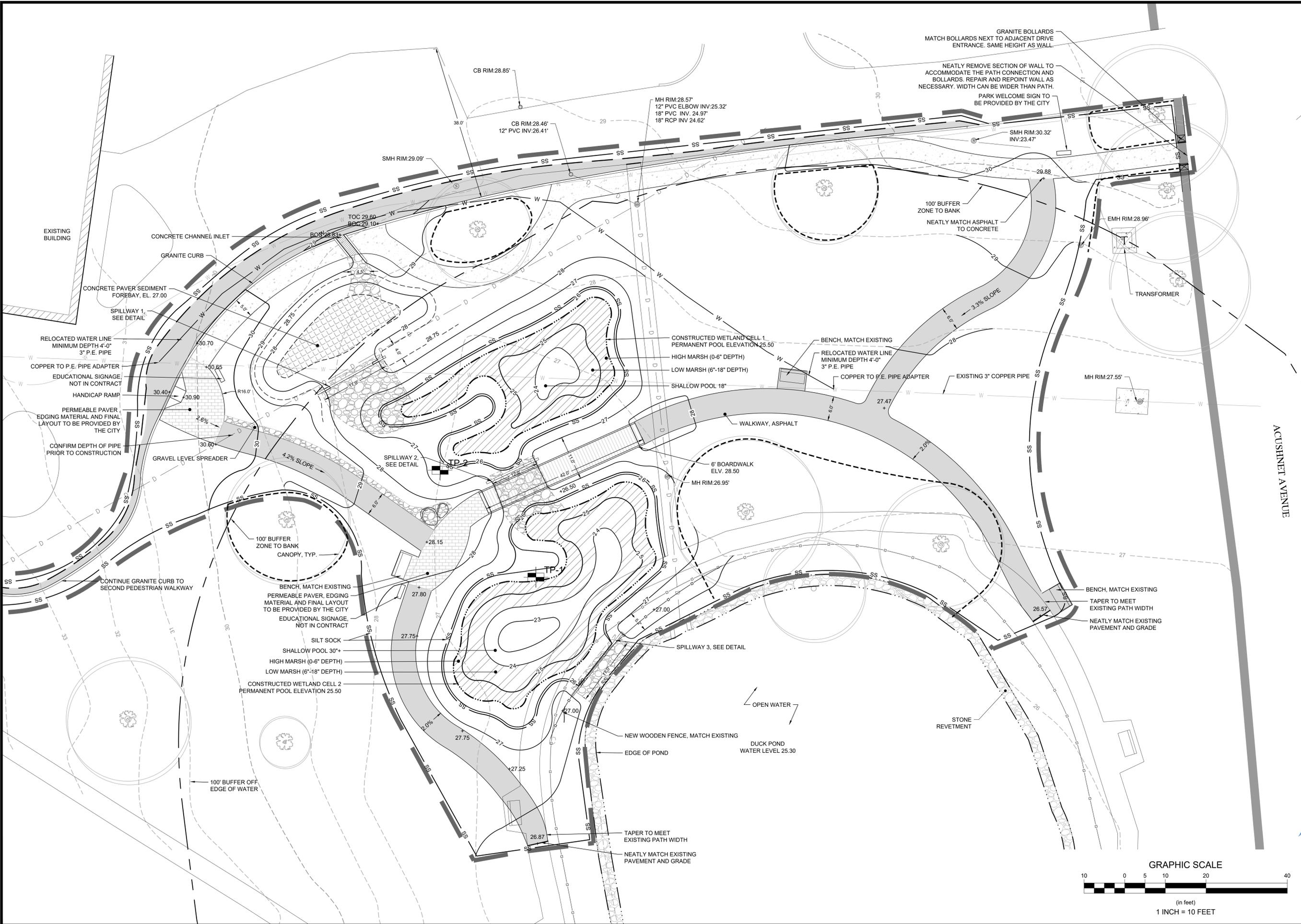
Plan Set: BROOKLAWN PARK CONSTRUCTED WETLAND RETROFIT CONSTRUCTION PLANS NEW BEDFORD, MASSACHUSETTS  
Overall Site Plan

Prepared For: Parks and Recreation, City of New Bedford  
133 William Street  
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Dated: DECEMBER 2021



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Revisions

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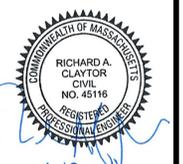
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Checked By: BRK  
 Drawn By: KFEB  
 Designated By: KFEB  
 Date: APRIL 2022

Plan Set: **BROOKLAWN PARK CONSTRUCTED WETLAND RETROFIT CONSTRUCTION PLANS NEW BEDFORD, MASSACHUSETTS**  
 Plan Title: **SITE AND GRADING DETAIL PLAN**

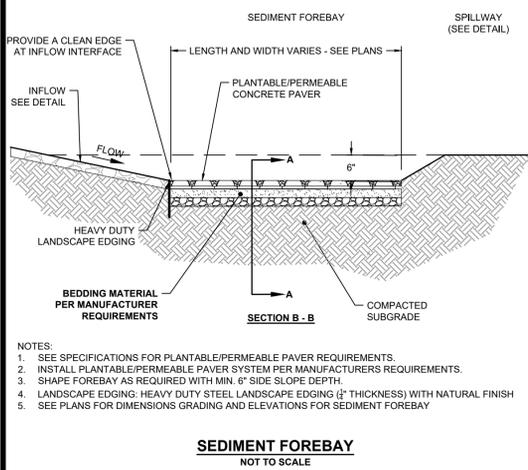
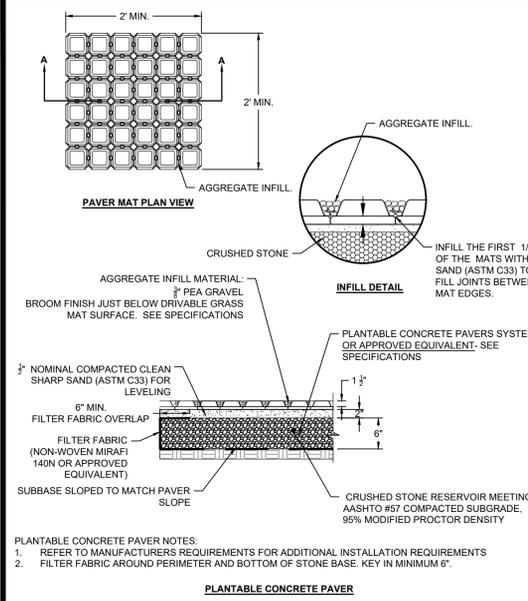
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Project Number: 21138 Sheet: 6 of 10  
 Sheet Number: **C-6**

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**CONSTRUCTION SPECIFICATIONS FOR CONSTRUCTED WETLAND SYSTEMS**

1. MATERIAL SPECIFICATIONS  
SUBGRADE SOIL: WELL COMPACTED, FINE-GRAINED STABLE SOIL. NATIVE MATERIALS MAY BE USED IF APPROPRIATE. USDA SOIL GROUPS C AND/OR D ARE BEST.

2. CONSTRUCTED WETLAND PLANTING SOIL  
THE CONSTRUCTED WETLAND PLANTING SOIL SHOULD BE AN APPROVED HIGH ORGANIC CONTENT MEDIUM TEXTURED LOAM OR SANDY LOAM, FREE OF STONES, STUMPS, ROOTS OR OTHER SIMILAR OBJECTS LARGER THAN TWO INCHES. NO OTHER MATERIALS OR SUBSTANCES SHOULD BE MIXED OR DUMPED WITHIN THE CONSTRUCTED WETLAND AREA THAT MAY BE HARMFUL TO PLANT GROWTH, OR PROVIDE A HINDRANCE TO THE PLANTING OR MAINTENANCE OPERATIONS. THE PLANTING SOIL SHOULD BE FREE OF NOXIOUS WEEDS.

THE CONSTRUCTED WETLAND SHALL UTILIZE PLANTING SOIL HAVING A COMPOSITION AS FOLLOWS:  
SAND: 45-55%  
SILT: 15-25%  
CLAY: 15-15%  
ORGANIC MATTER: 15-20%  
\*NOTE: ORGANIC MATTER SHALL BE WELL AGED (6-12 MONTHS), WELL AERATED, LEAF COMPOST OR APPROVED EQUIVALENT.

THE CONSTRUCTED WETLAND PLANTING SOIL SHALL BE TESTED AND MEET THE FOLLOWING CRITERIA:  
PH RANGE: 6.5 - 8.5  
ORGANIC MATTER: 15 - 20%  
ELECTRICAL CONDUCTIVITY: NOT TO EXCEED 4 MMH/CM  
CATION EXCHANGE CAPACITY: >15 MEQ/100 GRAMS OF SOIL

THE CONSTRUCTED WETLAND PLANTING SOIL SHALL ALSO CONTAIN MAGNESIUM, PHOSPHORUS (P2O5), & POTASSIUM (K2O) AT A STANDARD LEVEL TO FACILITATE PROPER PLANT GROWTH AS APPROVED BY THE ENGINEER OR LANDSCAPE ARCHITECT.

ALL CONSTRUCTED WETLAND AREA SHOULD HAVE A MINIMUM OF ONE TEST. EACH TEST SHOULD CONSIST OF BOTH THE STANDARD SOIL TEST FOR PH, PHOSPHORUS, AND POTASSIUM AND ADDITIONAL TESTS OF ORGANIC MATTER, ELECTRICAL CONDUCTIVITY, AND CATION EXCHANGE CAPACITY. A TEXTURAL ANALYSIS IS REQUIRED FROM THE SITE'S STOCKPILED TOPSOIL. IF TOPSOIL IS IMPORTED, THEN A TEXTURE ANALYSIS SHOULD BE PERFORMED FOR EACH LOCATION WHERE THE TOP SOIL WAS EXCAVATED.

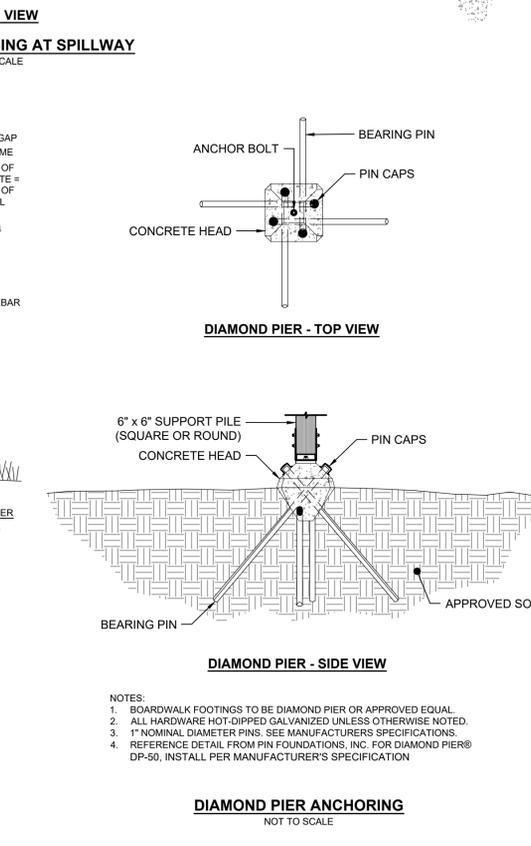
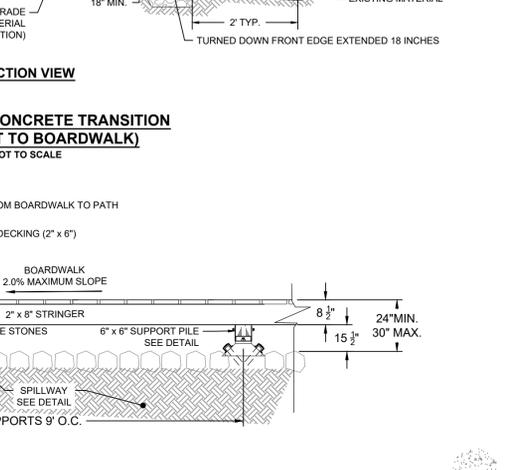
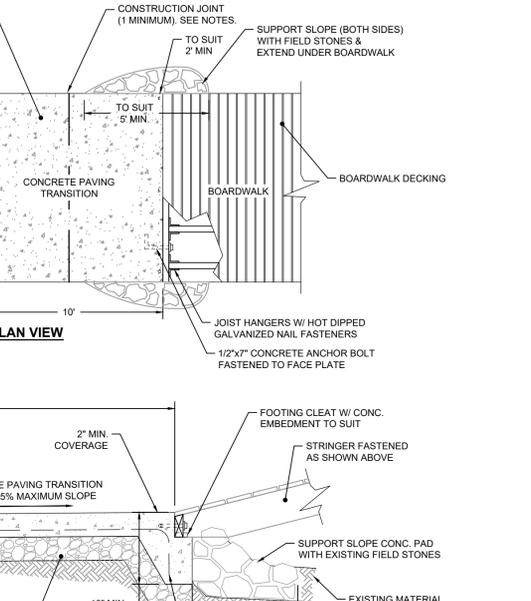
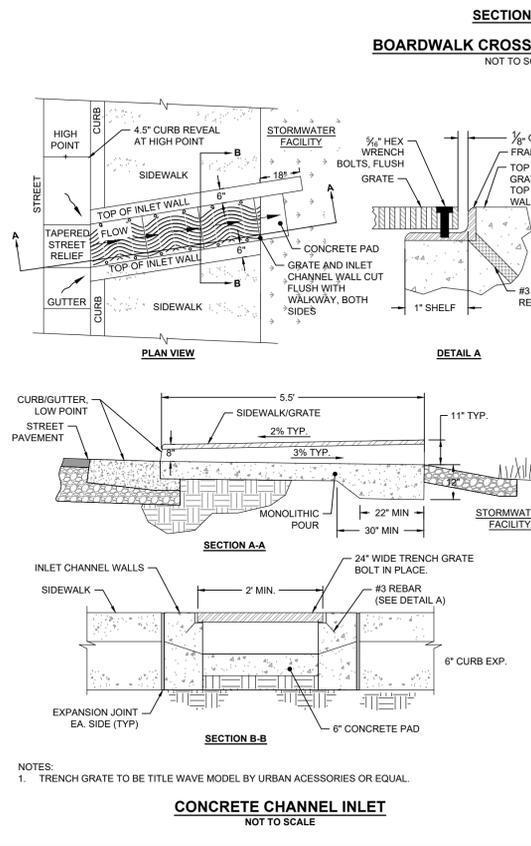
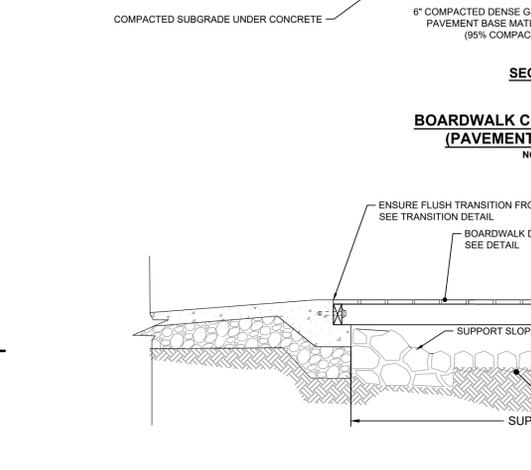
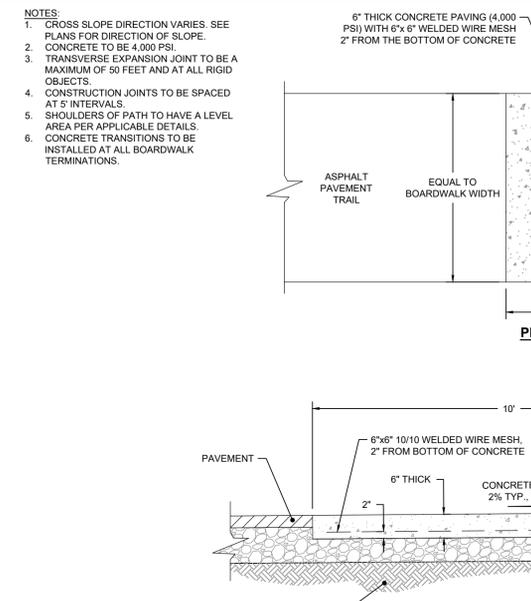
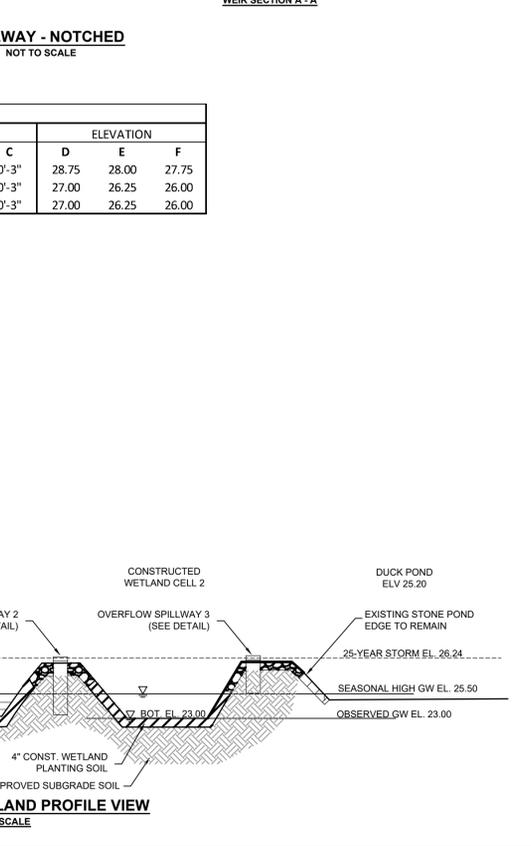
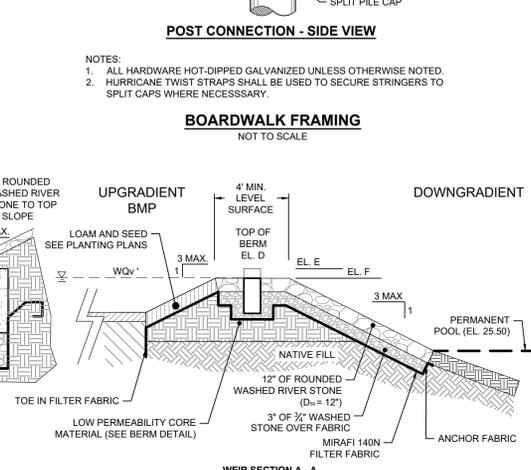
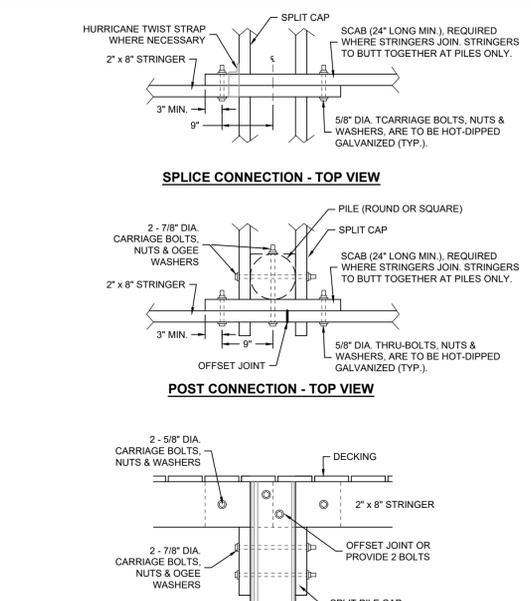
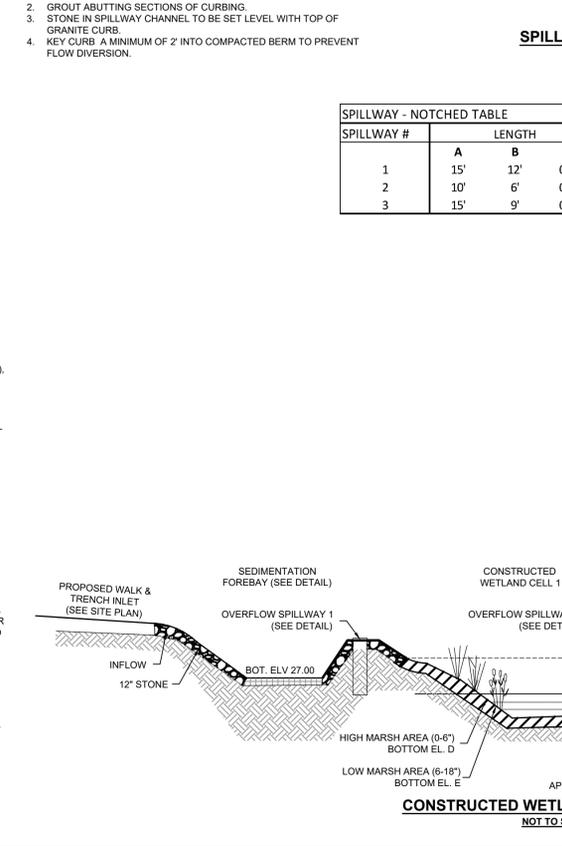
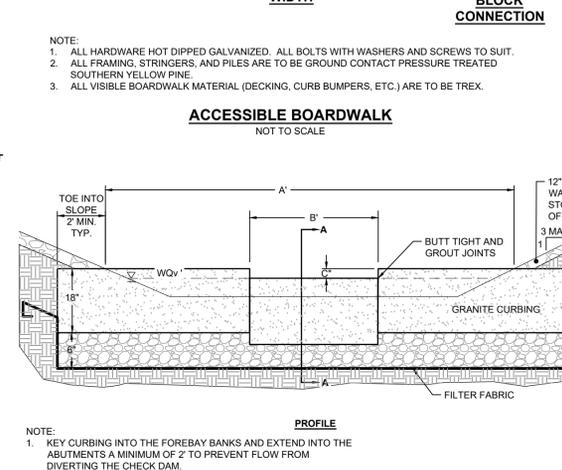
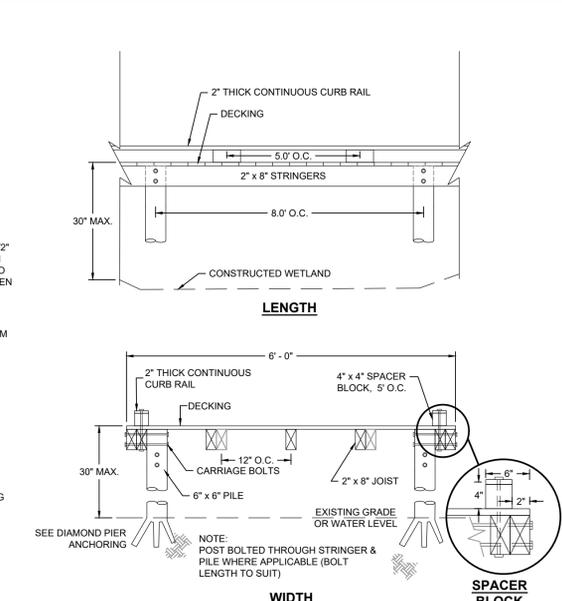
SINCE DIFFERENT LABS CALIBRATE THEIR TESTING EQUIPMENT DIFFERENTLY, ALL TEST RESULTS SHOULD COME FROM THE SAME TESTING FACILITY. THE TESTING RESULTS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.

SHOULD THE PH FALL OUT OF THE ACCEPTABLE RANGE, IT MAY BE MODIFIED (HIGHER) WITH LIME OR (LOWER) WITH IRON SULFATE PLUS SULFUR.

4. FACILITY BACKFILLING  
WHEN BACKFILLING THE CONSTRUCTED WETLAND, PLACE SUBGRADE SOIL IN LIFTS 12" OR GREATER. PLACE A MINIMUM OF 4" OF PLANTING SOIL ABOVE SUBGRADE SOIL FOR PROMOTING PLANT GROWTH. HEAVY EQUIPMENT CAN BE USED AROUND THE PERIMETER OF THE BASIN TO SUPPLY SOILS AND SAND. GRADE CONSTRUCTED WETLAND MATERIALS WITH LIGHT EQUIPMENT SUCH AS A COMPACT LOADER OR A DOZER/LOADER WITH MARSH TRACKS. SATURATE PLANTING SOIL AFTER PLACEMENT AND ALLOW TO SETTLE FOR AT LEAST ONE WEEK PRIOR TO INSTALLING PLANT MATERIAL.

5. PLANT INSTALLATION  
SEE PLANTING PLAN AND PLANTING DETAIL SHEET.

6. MISCELLANEOUS  
THE CONSTRUCTED WETLAND FACILITY MAY NOT BE CONSTRUCTED UNTIL ALL CONTRIBUTING DRAINAGE AREAS HAVE BEEN STABILIZED, AND SHALL REMAIN OFFLINE AND INOPERATIONAL UNTIL ALL VEGETATION IS STABILIZED.



NOTES:  
1. CROSS SLOPE DIRECTION VARIES. SEE PLANS FOR DIRECTION OF SLOPE.  
2. CONCRETE TO BE 4,000 PSI.  
3. TRANSVERSE EXPANSION JOINT TO BE A MAXIMUM OF 50 FEET AND AT ALL RIGID OBJECTS.  
4. CONSTRUCTION JOINTS TO BE SPACED AT 5' INTERVALS.  
5. SHOULDERS OF PATH TO HAVE A LEVEL AREA PER APPLICABLE DETAILS.  
6. CONCRETE TRANSITIONS TO BE INSTALLED AT ALL BOARDWALK TERMINATIONS.

**Revisions**

No.	Date	By	Appr.	Description
1				
2				
3				
4				
5				

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**Brooklawn Park Constructed Wetland Retrofit Construction Plans**  
NEW BEDFORD, MASSACHUSETTS

**DETAILS**

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Sheet: 7 of 10  
Sheet Number: **C-7**





