



• Civil
 • Transportation
 • Environmental
 • Site Planning
 • Surveying
 • Permitting
 • Landscape Architecture

CROSSMAN ENGINEERING
 Rhode Island: 151 Centerville Road, Warwick, RI 02886, Phone: (401) 738-5660
 Massachusetts: 103 Commonwealth Avenue, North Attleboro, MA 02763, Phone: (508) 695-1700
 Email: cel@crossmaneng.com

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PROJECT TITLE:
**STORMWATER
 MANAGEMENT
 IMPROVEMENTS
 OAKLAND BEACH**
 SUBURBAN PARKWAY
 AND STRAND AVENUE
 WARWICK, RHODE ISLAND

PREPARED FOR:
CITY OF WARWICK
 3275 POST ROAD
 WARWICK, RHODE ISLAND

DRAWING TITLE:
AERIAL MAP

DATE: MARCH 2016 SCALE: 1" = 100'
 DWG. NAME: 2082-C02-AERIAL.dwg

REVISIONS

NUMBER	REMARKS	DATE



GRAPHIC SCALE
 (IN FEET)
 1 inch = 100 ft.

DRAWING NUMBER
C2
 SHEET: 3 OF 11



CROSSMAN ENGINEERING

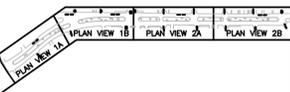
Rhode Island
151 Centerville Road
Warwick, RI 02886
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KEY PLAN:



PROJECT TITLE:

STORMWATER MANAGEMENT IMPROVEMENTS OAKLAND BEACH

SUBURBAN PARKWAY AND STRAND AVENUE WARWICK, RHODE ISLAND

PREPARED FOR:

CITY OF WARWICK
3275 POST ROAD
WARWICK, RHODE ISLAND

DRAWING TITLE:

EXISTING CONDITIONS PLAN NO. 1

DATE: MARCH 2016 SCALE: 1" = 20'

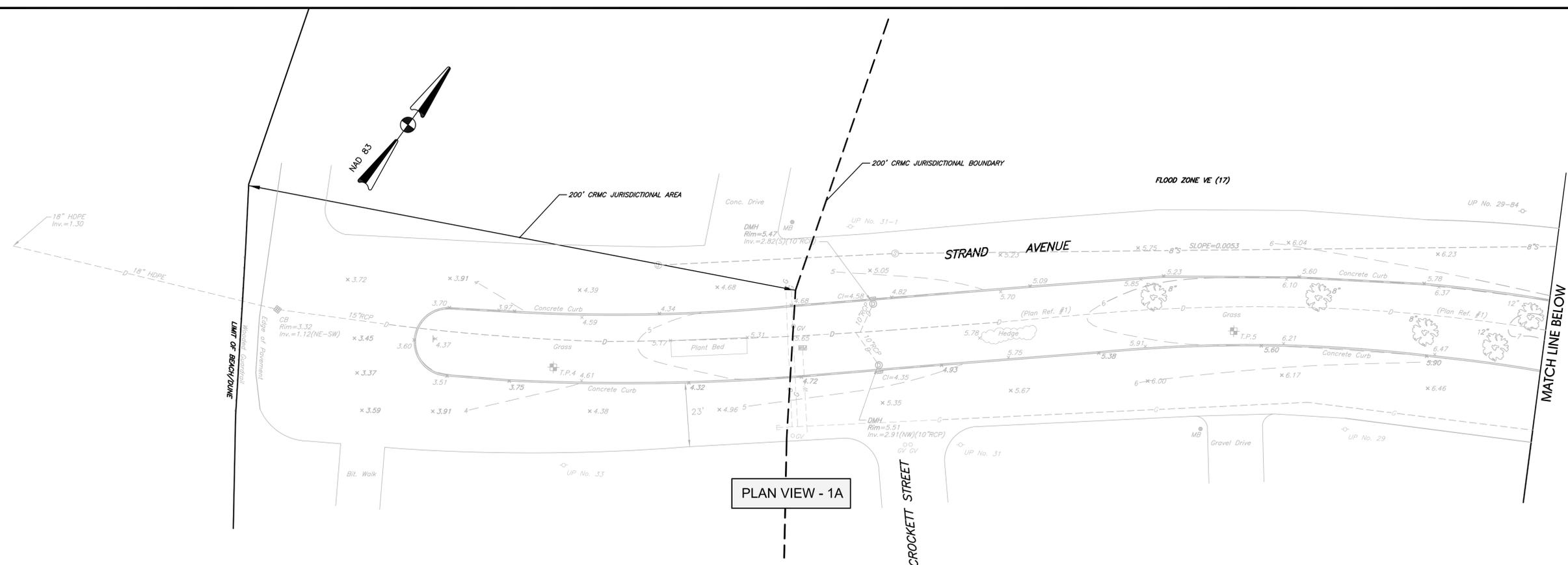
DWG. NAME: 2082-C03-BOULEVARD-EXCN.dwg

REVISIONS		
NUMBER	REMARKS	DATE

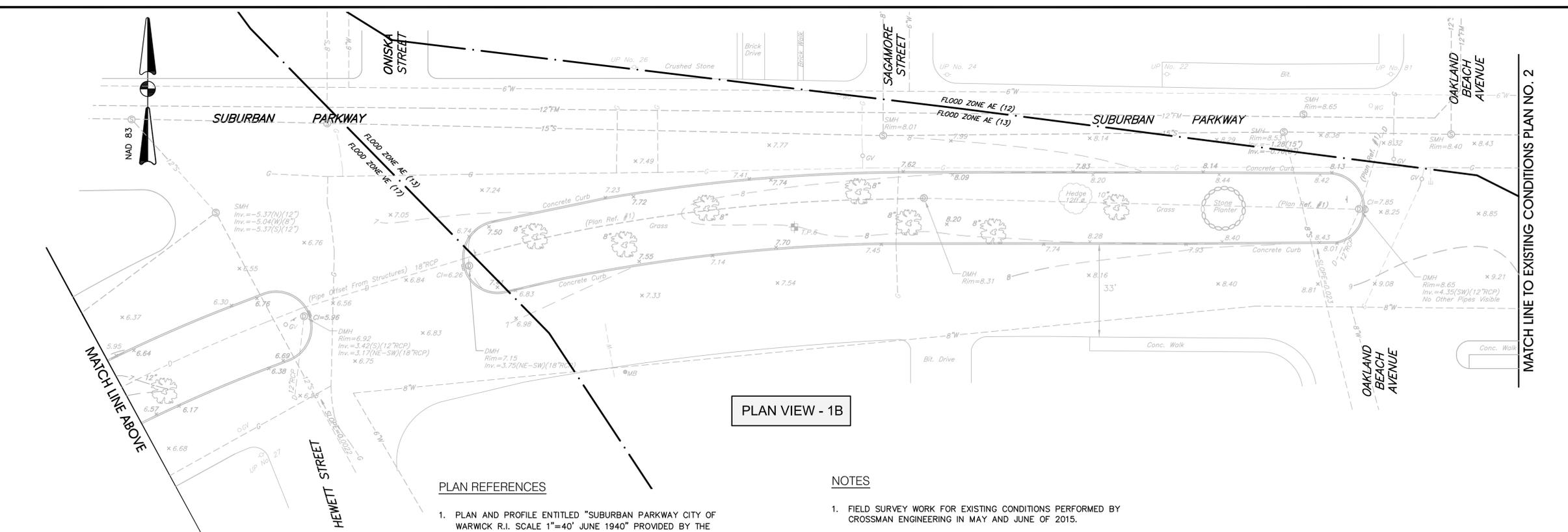
DRAWING NUMBER

C3.1

SHEET: 4 OF 11



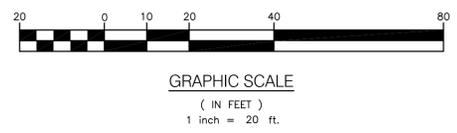
PLAN VIEW - 1A



PLAN VIEW - 1B

- PLAN REFERENCES**
1. PLAN AND PROFILE ENTITLED "SUBURBAN PARKWAY CITY OF WARWICK R.I. SCALE 1"=40' JUNE 1940" PROVIDED BY THE CITY OF WARWICK.
 2. GAS FACILITY MAPS PROVIDED BY NATIONAL GRID MAPS & RECORDS RHODE ISLAND DIVISION.
 3. PLAN, PROFILE AND SECTIONS OF PROPOSED CITY HIGHWAY, OAKLAND BEACH AVENUE, F.A. PROJECT NO. F-40 (6) PROVIDED BY THE CITY OF WARWICK.
 4. PLANS ENTITLED "CITY OF WARWICK RHODE ISLAND, WARWICK SEWER AUTHORITY SYSTEM OF SEWERS," CONTRACT NO. 29 & CONTRACT NO. 30" DATED 1978 AND PREPARED BY CE MAGUIRE, INC.
 5. A PLAN ENTITLED "BOARD OF WATER COMMISSIONERS, WARWICK, RHODE ISLAND, SECTION 9A," SHEET 27 OF 39.

- NOTES**
1. FIELD SURVEY WORK FOR EXISTING CONDITIONS PERFORMED BY CROSSMAN ENGINEERING IN MAY AND JUNE OF 2015.
 2. UTILITY NOTE: THE UTILITIES SHOWN HEREON ARE PLOTTED FROM FIELD LOCATION OF VISIBLE ABOVE GROUND STRUCTURES AND DRAINAGE INVERTS ALONG WITH PROVIDED RESEARCH. SEE PLAN REFERENCES. ALL UNDERGROUND UTILITY INFORMATION SHOWN HEREON MUST BE VERIFIED IN THE FIELD PRIOR TO ANY EXCAVATION OR CONSTRUCTION ON THIS SITE. THE CONTRACTOR OR USERS OF THIS PLAN SHOULD CONTACT DIGSAFE PRIOR TO ANY WORK.
 3. THE HORIZONTAL DATUM IS THE RHODE ISLAND STATE PLANE COORDINATE SYSTEM (NAD83) AND THE VERTICAL DATUM IS NAVD 88 UTILIZING GPS RTK NETWORK CONTROL.
 4. THE PURPOSE OF THIS PLAN IS TO SHOW EXISTING CONDITIONS FOR ENGINEERING DESIGN BY CROSSMAN ENGINEERING.





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KEY PLAN:

PLAN VIEW 1A	PLAN VIEW 1B	PLAN VIEW 2A	PLAN VIEW 2B
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PROJECT TITLE:
STORMWATER MANAGEMENT IMPROVEMENTS OAKLAND BEACH
 SUBURBAN PARKWAY AND STRAND AVENUE WARWICK, RHODE ISLAND

PREPARED FOR:
CITY OF WARWICK
 3275 POST ROAD WARWICK, RHODE ISLAND

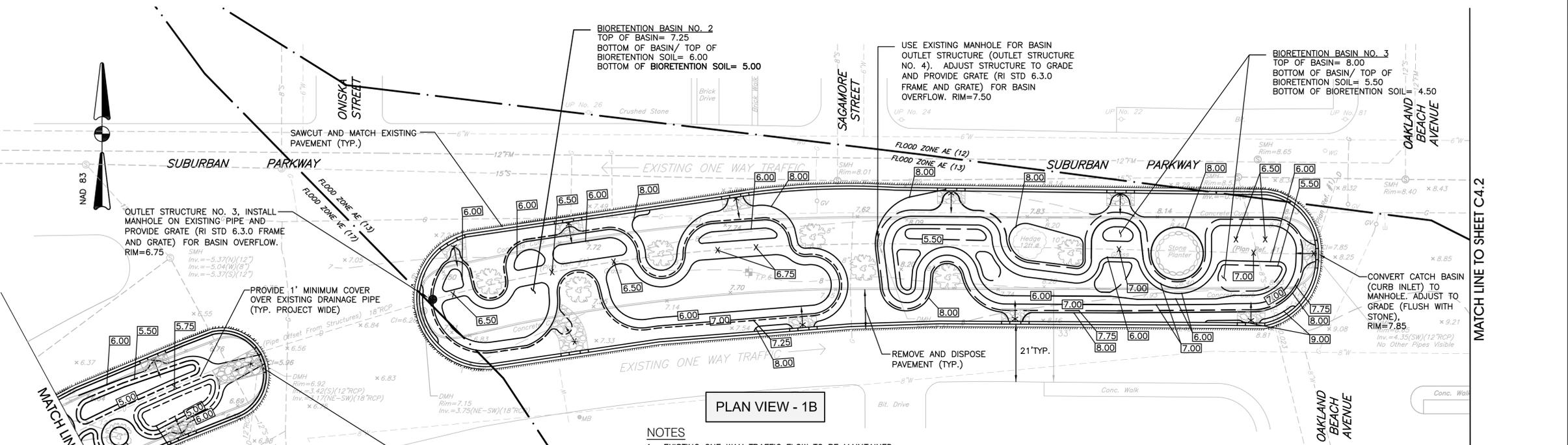
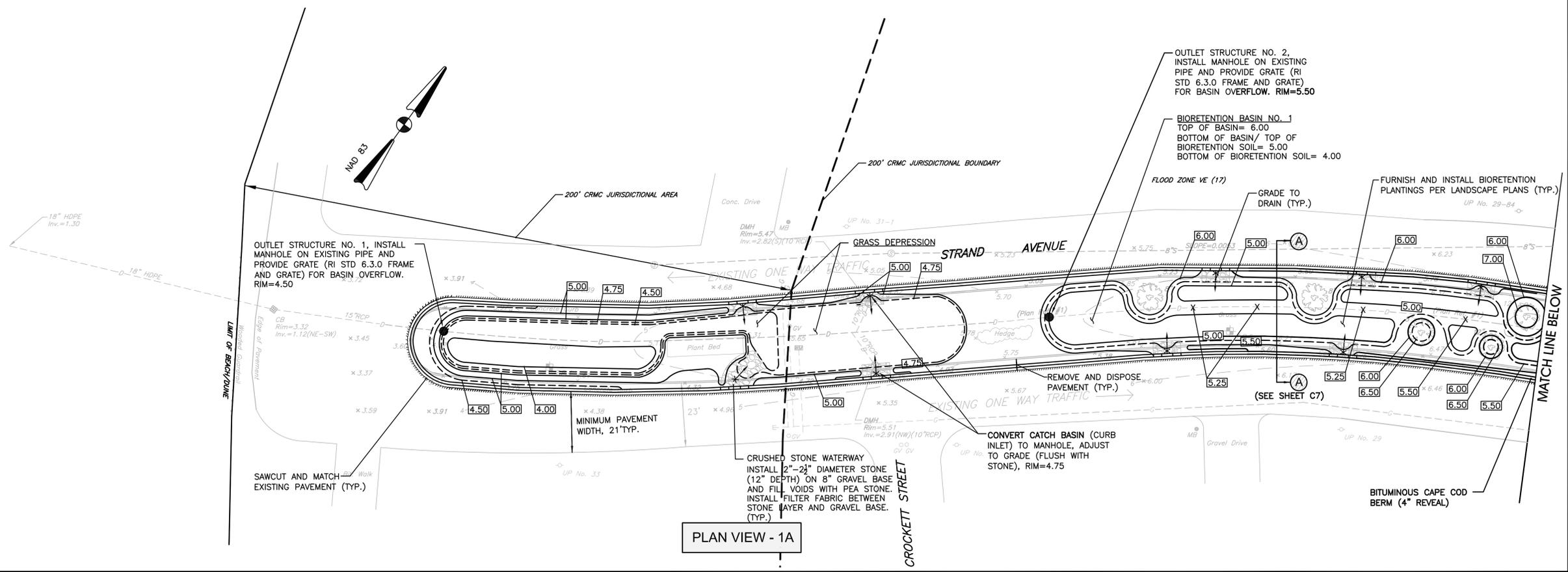
DRAWING TITLE:
SITE PLAN NO. 1

DATE: MARCH 2016 SCALE: 1" = 20'
 DWG. NAME: 2082-C04-BOULEVARD-SITE.dwg

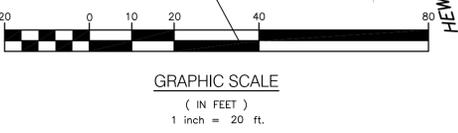
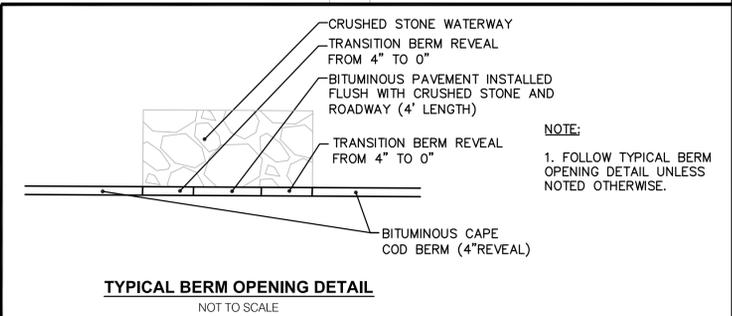
REVISIONS

NUMBER	REMARKS	DATE

DRAWING NUMBER
C4.1
 SHEET: 6 OF 11



- NOTES**
- EXISTING ONE WAY TRAFFIC FLOW TO BE MAINTAINED.
 - PROVIDE BERM OPENING AT CRUSHED STONE WATERWAYS, REFER TO DETAIL.
 - AFTER REMOVAL OF EXISTING CURB, THE TOWN WILL INSPECT THE CURB AND DETERMINE IF CURB WILL BE STOCKPILED OFFSITE FOR FUTURE USE.
 - CRUSHED STONE WATERWAYS ADJACENT TO CATCH BASIN GRATES SHALL HAVE 4" MINIMUM DIAMETER STONE. NOTE: STONE SIZE MAY VARY. PRIOR TO CONSTRUCTION ALL SIZES SHALL BE APPROVED BY CITY.
 - GRADES SHALL BE ADJUSTED AS NECESSARY TO MAINTAIN A MINIMUM COVER OF 12" OVER EXISTING DRAINAGE PIPE. CONTRACTOR IS RESPONSIBLE TO CONDUCT TEST PITS ALONG EXISTING DRAINAGE PIPE TO VERIFY.
 - THE FINAL GRADES OVER THE EXISTING GAS LINE SHALL BE NO LESS THAN THE EXISTING CONDITIONS. CONTRACTOR SHALL CONFIRM WITH TEST PITS.
 - REFER TO SHEET C7 FOR TYPICAL SECTION.
 - ONCE THE NEW BERM LINE IS SET IN FIELD, THE CONTRACTOR'S SURVEYOR SHALL PROVIDE A PROFILE OF EXISTING GRADES TO THE ENGINEER. THE CITY AND ENGINEER WILL DETERMINE THE FINAL LOCATION OF THE BERM OPENINGS.





CROSSMAN ENGINEERING

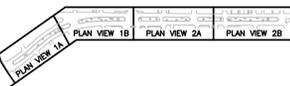
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PROJECT TITLE:

STORMWATER MANAGEMENT IMPROVEMENTS OAKLAND BEACH

SUBURBAN PARKWAY AND STRAND AVENUE WARWICK, RHODE ISLAND

PREPARED FOR:

CITY OF WARWICK
3275 POST ROAD
WARWICK, RHODE ISLAND

DRAWING TITLE:

SITE PLAN NO. 2

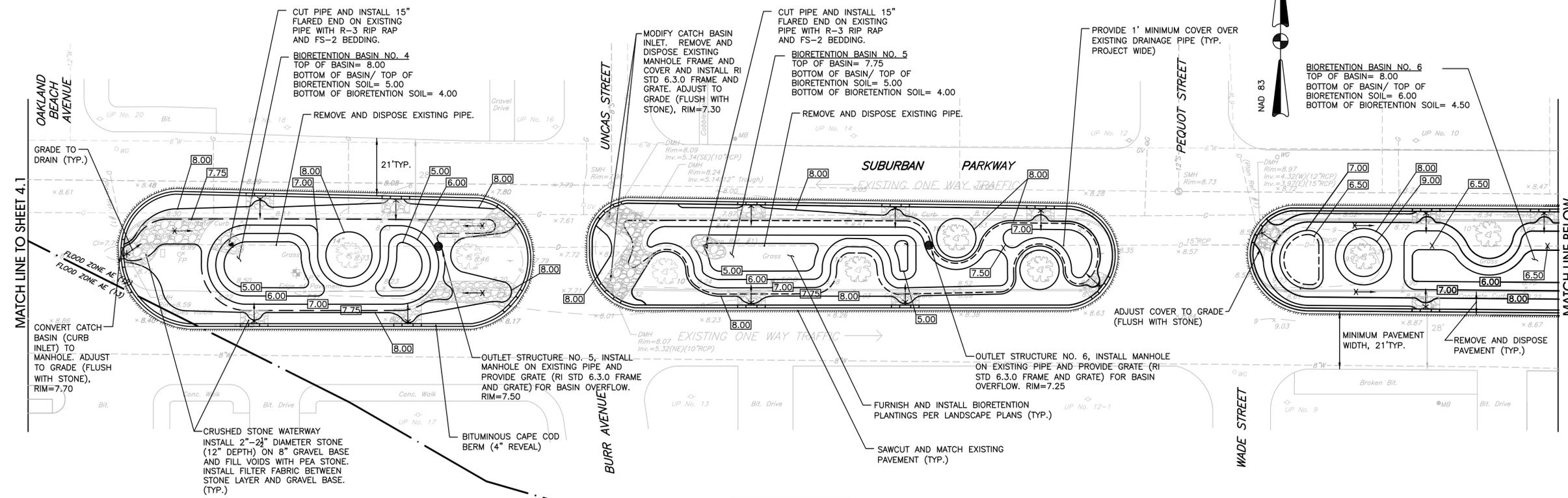
DATE: MARCH 2016 SCALE: 1" = 20'
DWG. NAME: 2082-C04-BOULEVARD-SITE.dwg

REVISIONS	NUMBER	REMARKS	DATE
△			

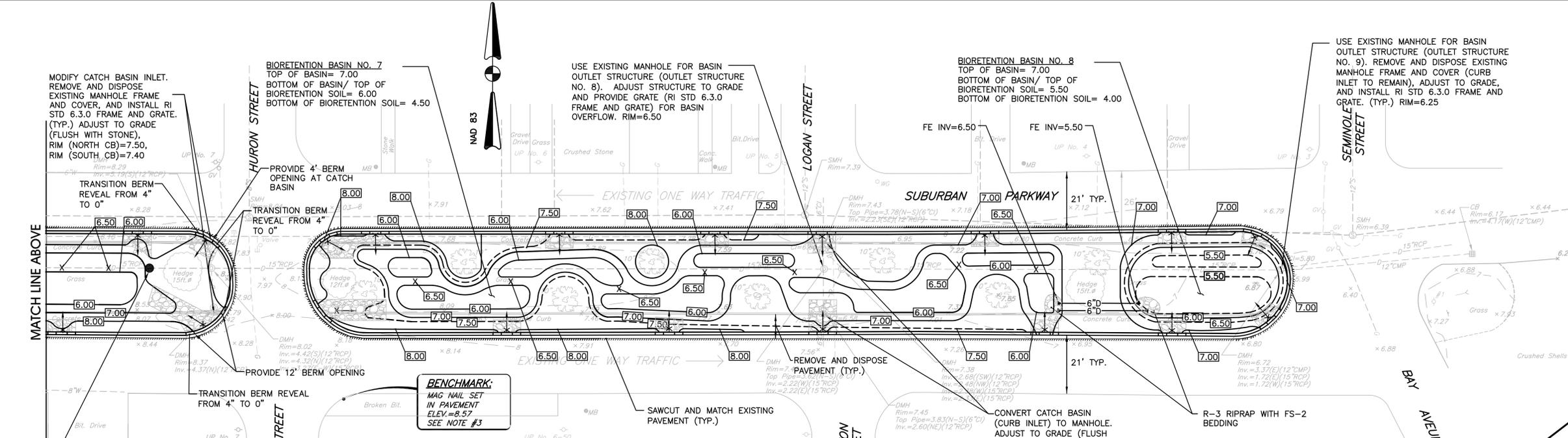
DRAWING NUMBER

C4.2

SHEET: 7 OF 11



PLAN VIEW - 2A



PLAN VIEW - 2B

NOTES

- EXISTING ONE WAY TRAFFIC FLOW TO BE MAINTAINED.
- PROVIDE BERM OPENING AT CRUSHED STONE WATERWAYS, REFER TO DETAIL.
- AFTER REMOVAL OF EXISTING CURB, THE TOWN WILL INSPECT THE CURB AND DETERMINE IF THE CURB WILL BE STOCKPILED OFFSITE FOR FUTURE USE.
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- GRADES SHALL BE ADJUSTED AS NECESSARY TO MAINTAIN A MINIMUM COVER OF 12" OVER EXISTING DRAINAGE PIPE. CONTRACTOR IS RESPONSIBLE TO CONDUCT TEST PITS ALONG EXISTING DRAINAGE PIPE TO VERIFY.
- THE FINAL GRADES OVER THE EXISTING GAS LINE SHALL BE NO LESS THAN THE EXISTING CONDITIONS. CONTRACTOR SHALL CONFIRM WITH TEST PITS.
- ONCE THE NEW BERM LINE IS SET IN FIELD, THE CONTRACTOR'S SURVEYOR SHALL PROVIDE A PROFILE OF EXISTING GRADES TO THE ENGINEER. THE CITY AND ENGINEER WILL DETERMINE THE FINAL LOCATION OF THE BERM OPENINGS.

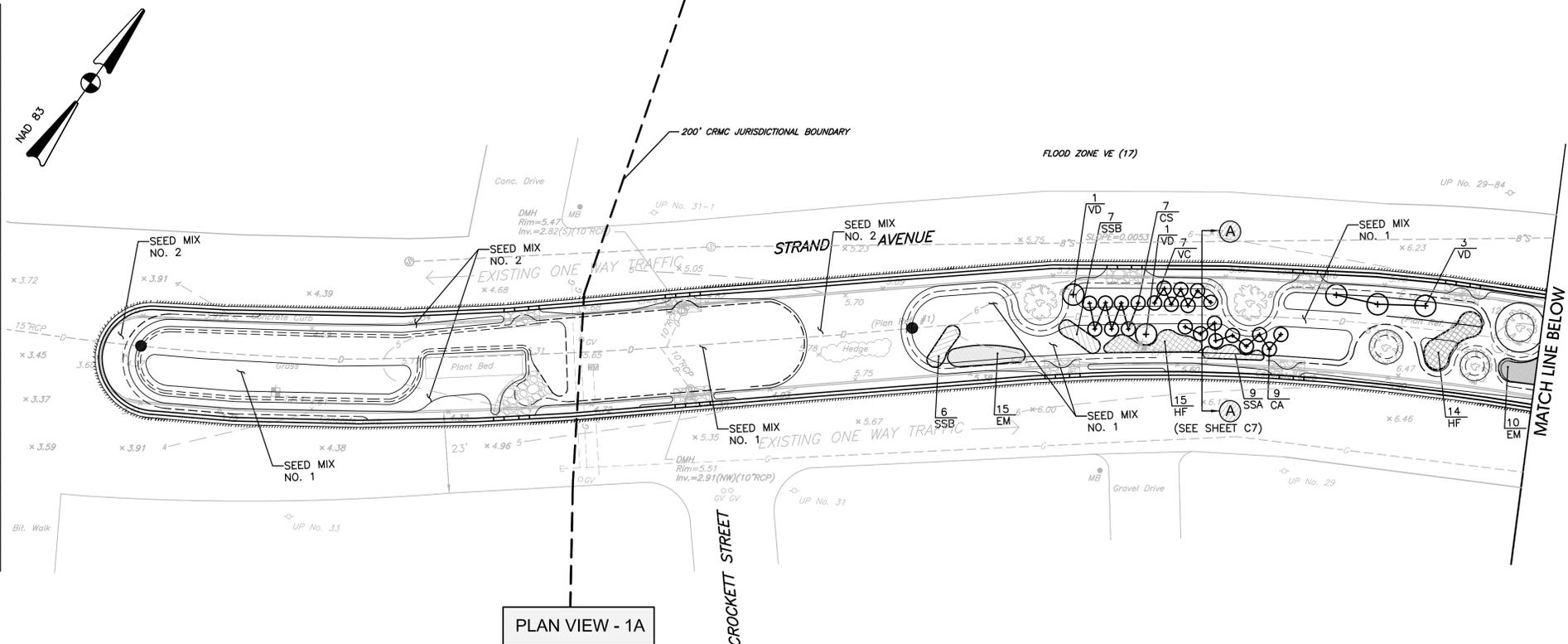
BENCHMARK:
MAG. INVAL. SET IN PAVEMENT ELEV.=8.57 SEE NOTE #3

GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.

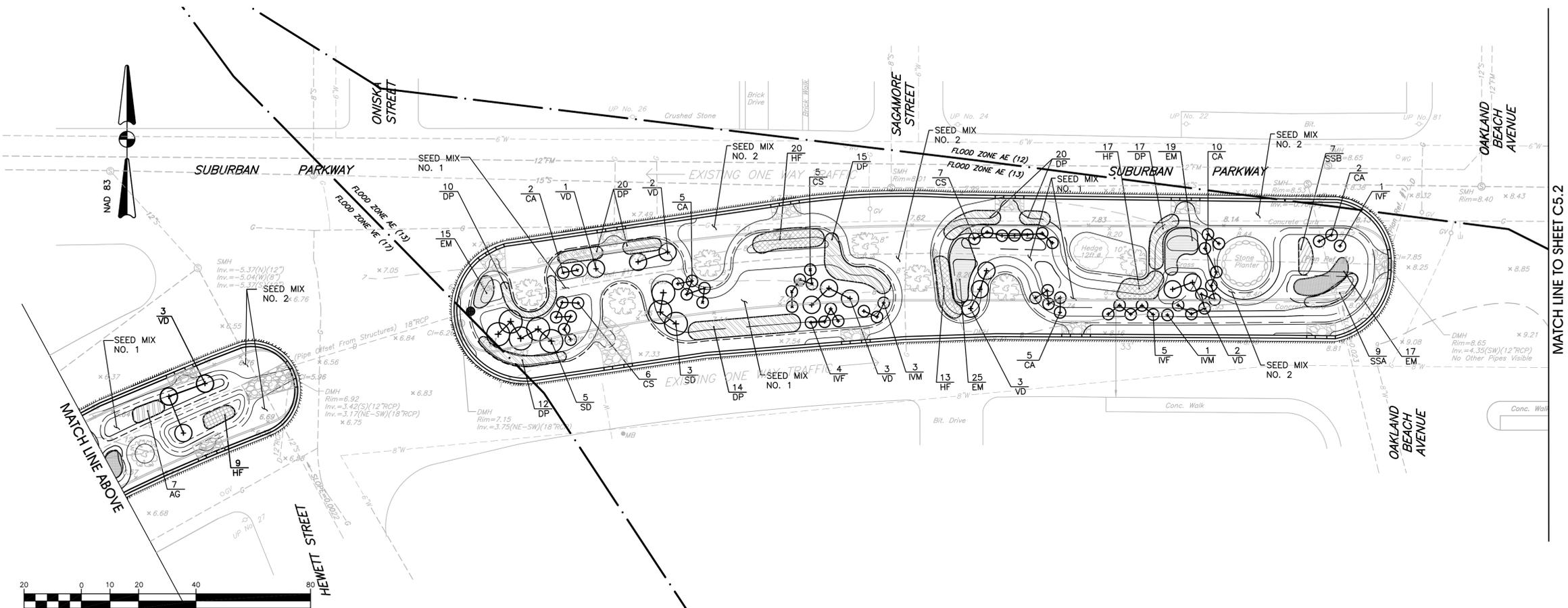
PLANTING SCHEDULE

SHRUBS			
Key	Botanical Name <i>Common Name</i>	Size	Remarks
CA	<i>Clethra alnifolia</i> White Summer Sweet	2 gallon	cont.
CS	<i>Cornus sericea</i> Bailey's Red Twig Dogwood	2 gallon	cont.
IGC	<i>Ilex glabra 'Compacta'</i> Compact Inkberry	5 gallon	cont.
IVF	<i>Ilex verticillata 'Sparkleberry' Female</i> Winterberry	5 gallon	cont.
IVM	<i>Ilex verticillata 'Sparkleberry' Male</i> Winterberry	2 gallon	cont.
SD	<i>Salix discolor</i> Pussy Willow	2 gallon	cont.
VC	<i>Vaccinium corymbosum</i> Highbush Blueberry	5 gallon	cont.
VD	<i>Viburnum dentatum</i> Arrowwood Viburnum	3 gallon	cont.

GROUND COVER, GRASSES			
Key	Botanical Name <i>Common Name</i>	Size	Remarks
AG	<i>Andropogon gerardii</i> Big Blue Stem	1 gallon	cont.
DP	<i>Dennstaedtia punctilobula</i> Hay Scented Fern	1 gallon	cont.
EM	<i>Eupatorium maculatum</i> Joe-Pye Weed	1 gallon	cont.
HF	<i>Hemerocallis fulva</i> Daylilies	1 gallon	cont.
OB	<i>Oenothera biennis</i> Evening Primrose	1 gallon	cont.
RH	<i>Rudbeckia hirta</i> Black Eyed Susan	1 gallon	cont.
SSA	<i>Schizachyrium scoparium</i> Bluestem	1 gallon	cont.
SSB	<i>Solidago sempervirens</i> Seaside Goldenrod	1 gallon	cont.
SV	<i>Solidago virgaurea</i> Goldenrod	1 gallon	cont.



PLAN VIEW - 1A



PLAN VIEW - 1B

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KEY PLAN:

PROJECT TITLE:
STORMWATER MANAGEMENT IMPROVEMENTS OAKLAND BEACH
SUBURBAN PARKWAY AND STRAND AVENUE WARWICK, RHODE ISLAND

PREPARED FOR:
CITY OF WARWICK
3275 POST ROAD WARWICK, RHODE ISLAND

DRAWING TITLE:
LANDSCAPE PLAN NO. 1

DATE: MARCH 2016 SCALE: 1" = 20'
DWG. NAME: 2082-C05-BOULEVARD-LAND.dwg

REVISIONS	NUMBER	REMARKS	DATE
△			

DRAWING NUMBER
C5.1
SHEET: 8 OF 11



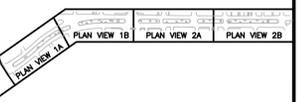
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KEY PLAN:



PROJECT TITLE:

STORMWATER MANAGEMENT IMPROVEMENTS OAKLAND BEACH

SUBURBAN PARKWAY AND STRAND AVENUE WARWICK, RHODE ISLAND

PREPARED FOR:

CITY OF WARWICK
3275 POST ROAD
WARWICK, RHODE ISLAND

DRAWING TITLE:

LANDSCAPE PLAN NO. 2

DATE: MARCH 2016 SCALE: 1" = 20'

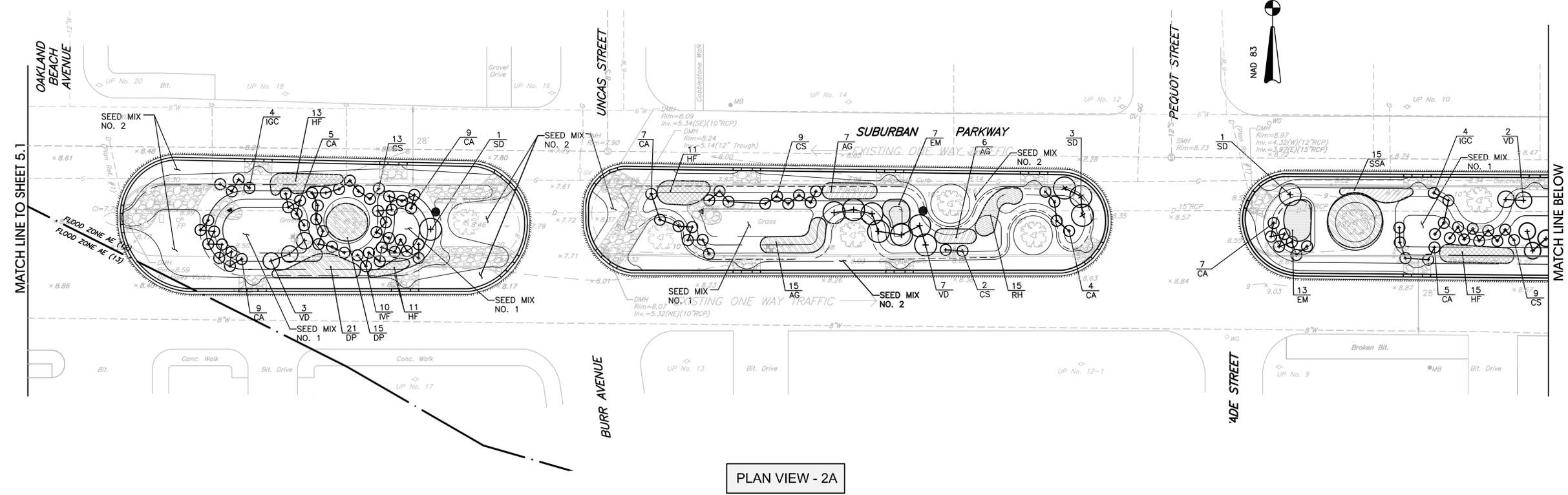
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REVISIONS		
NUMBER	REMARKS	DATE

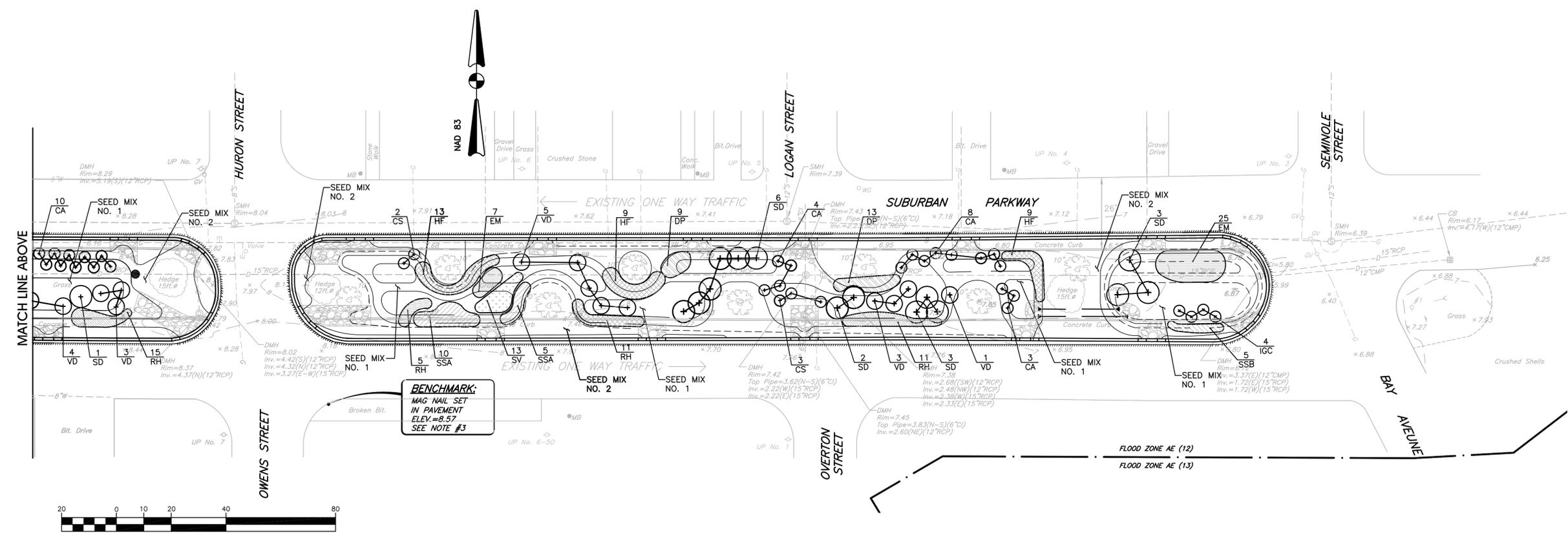
DRAWING NUMBER

C5.2

SHEET: 9 OF 11



PLAN VIEW - 2A



PLAN VIEW - 2B



GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.

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PROJECT TITLE:
STORMWATER MANAGEMENT IMPROVEMENTS OAKLAND BEACH

PREPARED FOR:
CITY OF WARWICK
 3275 POST ROAD
 WARWICK, RHODE ISLAND

DRAWING TITLE:
MISCELLANEOUS DETAIL PLAN NO. 2

DATE: MARCH 2016 SCALE: AS SHOWN
 DWG. NAME: 2082-C07-DETAIL2.dwg

REVISIONS

NUMBER	REMARKS	DATE

DRAWING NUMBER
C7
 SHEET: 11 OF 11

DUST CONTROL NOTES

ON AN AS-NEEDED BASIS OR AS DIRECTED BY THE CITY OR OWNER, THE CONTRACTOR SHALL UTILIZE ONE OF THE FOLLOWING METHODS (AS RECOMMENDED BY THE "R.I. SOIL EROSION AND SEDIMENT CONTROL HANDBOOK", ISSUED 1989, REVISED 2014) TO CONTROL DUST:

A. THE EXPOSED SOIL SURFACE SHOULD BE MOISTENED PERIODICALLY WITH ADEQUATE WATER TO CONTROL DUST.

INSPECTION/MAINTENANCE NOTES

- PRIOR TO COMMENCING CONSTRUCTION OPERATIONS, INLET PROTECTION AND TREE PROTECTION DEVICES SHALL BE PLACED TO PROTECT EXISTING TREES AND TO PREVENT SEDIMENT FROM ENTERING THE EXISTING DRAINAGE SYSTEM. ALL TREES AND SHRUBS SHALL BE PROTECTED UNLESS AUTHORIZED DIFFERENTLY BY THE CITY.
- EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY UNSUITABLE MATERIAL FROM ENTERING THE DRAINAGE SYSTEM.
- ALL DISTURBED AREAS WHICH BECOME SUBJECT TO EROSION TENDENCIES WHETHER THEY BE NEWLY FILLED OR EXCAVATED SHALL RECEIVE SLOPE PROTECTION - SUCH AS RIP-RAP.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING PERIODS OF RAINFALL.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL MAINTENANCE AND SHALL INSPECT / REPLACE DAILY DURING CONSTRUCTION, FOLLOWING RAINFALL AND WEEKLY DURING NON CONSTRUCTION PERIODS.
- ADDITIONAL PROTECTIVE MEASURES SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER.
- THE "R.I. SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" PREPARED BY THE RHODE ISLAND STATE CONSERVATION COMMITTEE, ISSUED 1989 (REVISED 2014), MUST BE UTILIZED BY THE CONTRACTOR AS A GUIDE.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL DUST CONTROL AND FOR THE ENTIRE PROJECT DURATION, INCLUDING TEMPORARY SHUT-DOWN PERIODS, MUST MONITOR AND REPAIR, AS NEEDED, ALL SLOPES TO ENSURE A STABLE PRODUCT.

GENERAL PROJECT WIDE NOTES

- EROSION CONTROLS SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, MAINTAINED ON A REGULAR BASIS, AND SHALL BE PLACED TO PREVENT SEDIMENTATION FROM ENTERING THE EXISTING DRAINAGE SYSTEM.
- THE CONTRACTOR MUST REPLACE AND/OR RESEED ANY VEGETATION THAT DOES NOT DEVELOP/SURVIVE WITHIN THE PERIOD OF ONE YEAR AND HE SHALL DO SO AT NO ADDITIONAL EXPENSE TO THE OWNER.
- INLET PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED AND POTENTIAL SEDIMENTATION SOURCES ARE REMOVED.
- TREES AND OTHER EXISTING VEGETATION SHALL BE RETAINED WHENEVER FEASIBLE; THE AREA BEYOND THE DRILLPIECE SHALL BE FENCED OR ROPED OFF TO PROTECT TREES FROM CONSTRUCTION EQUIPMENT.
- AREAS DAMAGED DURING CONSTRUCTION SHALL BE RESODDED, RESEEDDED, OR OTHERWISE RESTORED AT THE CONTRACTOR'S EXPENSE.
- STOCKPILES SHALL HAVE NO SLOPE STEEPER THAN 2:1 AND SHALL BE SURROUNDED BY STAKED FILTERSOXX.
- STOCKPILES EXPOSED FOR EXCESSIVE PERIODS SHALL RECEIVE TEMPORARY TREATMENT CONSISTING OF HAY, STRAW, FIBER MATTING OR APPROVED EQUAL.
- SILT SACK SHALL BE INSTALLED AT EXISTING AND PROPOSED CATCH BASINS (GRATE INLET) WITHIN THE VICINITY OF CONSTRUCTION. FILTREXX INLET SOXX SHALL BE INSTALLED AT CURB INLETS.
- THE CONTRACTOR IS RESPONSIBLE TO WATER NEW PLANTS AS NECESSARY FOR GROWTH. THERE WILL BE A ONE YEAR WARRENTTEE ON ALL PLANTINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SURVIVAL OF ALL PLANTINGS FOR A PERIOD OF 1 YEAR AFTER INSTALLATION, AND FULL REPLACEMENT SHALL BE PROVIDED BY THE CONTRACTOR DURING THAT ONE YEAR PERIOD IF PLANTINGS DO NOT SURVIVE. FULL REPLACEMENT SHALL BE AT NO ADDITIONAL COST TO THE CITY. IF THE EXISTING LANDSCAPING IS DAMAGED OR DIES WITHIN 1 YEAR OF CONSTRUCTION, THE CONTRACTOR SHALL REPLACE THE PLANTING IN-KIND AT NO ADDITIONAL COST TO THE CITY.

CONSTRUCTION NOTES

CONSTRUCTION OF BMP'S WITHIN THE LANDSCAPED ISLANDS IN SUBURBAN PARKWAY AND STRAND AVENUE SHALL OCCUR CONSECUTIVELY, STARTING AT THE ISLAND AT THE EASTERLY LIMIT OF SUBURBAN PARKWAY. ONCE CONSTRUCTION WITHIN ONE ISLAND IS COMPLETE, CONSTRUCTION CAN BEGIN WITHIN THE NEXT ISLAND. AT NO TIME SHALL CONSTRUCTION ACTIVITIES OCCUR WITHIN MORE THAN ONE ISLAND SIMULTANEOUSLY AT ANY GIVEN TIME. THE CONSTRUCTION SCHEDULE SHALL BE APPROVED BY THE CITY.

SEQUENCE OF CONSTRUCTION

- AS APPROVED BY THE CITY, INSTALL SILT SACK AND FILTREXX INLET SOXX AT EXISTING CATCH BASINS AND TREE PROTECTION DEVICES AT EXISTING TREES IN THE VICINITY OF CONSTRUCTION, SITE WIDE.
- CONTRACTOR SHALL BEGIN CONSTRUCTION AT THE ISLAND AT THE EASTERLY LIMIT OF SUBURBAN PARKWAY. ONCE CONSTRUCTION IS COMPLETE AT THIS ISLAND, THE CONTRACTOR SHALL WORK ONE ISLAND AT A TIME IN A WESTERLY DIRECTION (TOWARDS STRAND AVENUE). THE SEQUENCE OF CONSTRUCTION FOR EACH ISLAND IS AS FOLLOWS;
 - INSTALL TRAFFIC CONTROLS
 - REMOVE AND DISPOSE EXISTING CURB AND PAVEMENT AND ROUGH GRADE ISLAND.
 - INSTALL BERM AND STONE DIAPHRAGM.
 - CONSTRUCT BIORETENTION BASIN AND INSTALL/MODIFY PROPOSED OUTLET STRUCTURES (WITH SILT SACK UNDER GRATE).
 - LOAM AND SEED DISTURBED AREAS OR PROVIDE TEMPORARY VEGETATIVE COVER.
- INSTALL PLANTINGS SITE WIDE (ONE ISLAND AT A TIME) AND LOAM AND SEED ALL DISTURBED AREAS.
- REMOVE EROSION CONTROLS ONCE VEGETATIVE COVER IS ESTABLISHED SITE WIDE.

