Providence Water Operations Facility

125 Dupont Drive
Providence, Rhode Island

OWNER/APPLICANT:

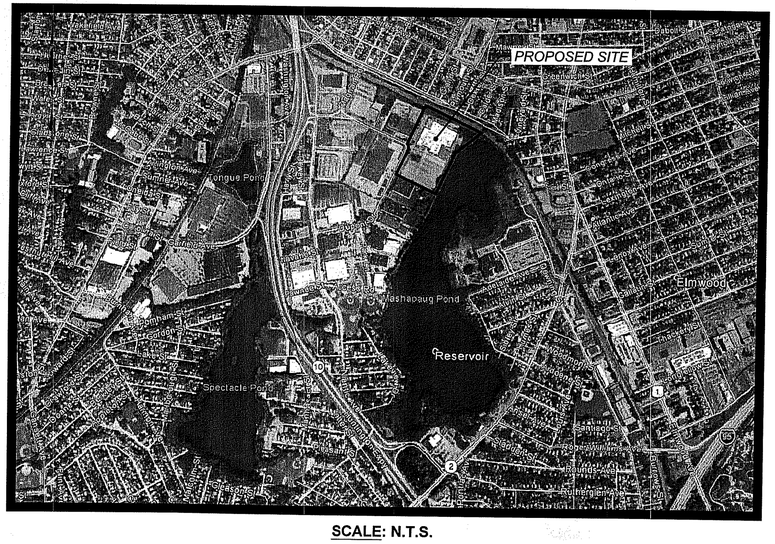
PROVIDENCE WATER
125 DUPONT DRIVE
PROVIDENCE, RI
(401) 521-6300

CIVIL ENGINEER:

PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

LANDSCAPE ARCHITECT:

BIRCHWOOD DESIGN GROUP
150 CHESTNUT STREET, 4TH FLOOR • PROVIDENCE, RI 02903 • 401.383.4950



SCALE: N.T.S.

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RIDEM SUBMISSION
MAY 24, 2016

RECEIVED MAY 25 2016

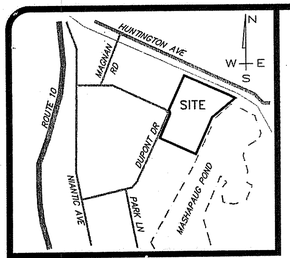
DAVID L. POTTER
No. 8665
5.24.16
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

RECEIVED MAY 25 2016 Department of Environmental Management Permit Application Center

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER
DATED JUL 1 2016
FILE # 16-0135
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

RECEIVED JUL 5 2016 Department of Environmental Management Permit Application Center

ALTA/ASCM SURVEY
FOR
ASSESSORS PLAT 50 LOT 724
SITUATED ON
125 DUPONT DRIVE
PROVIDENCE, RHODE ISLAND
PREPARED FOR
CITY OF PROVIDENCE WATER SUPPLY BOARD



LOCUS MAP
NOT TO SCALE

PARCEL DATA
ASSESSORS PLAT 50, LOT 724 N/F FIRST STATES INVESTORS 5200, LLC DEED BOOK 6868 / PAGE 187 #125 DUPONT DRIVE LOT AREA: 719,815 SQUARE FEET± OR 16.52 ACRES±

PARKING DATA
681 spaces; 11 Handicap Spaces; Total Spaces: 692

ZONING DATA
M1 DISTRICT
MIN. LOT AREA: NONE MIN. FRONT YARD: 0' * MIN. SIDE YARD: 0' * MIN. REAR YARD: 0' * MAX. BLDG. HEIGHT: 75'
* PLEASE REFER TO ZONING REGS. FOR ADDITIONAL INFORMATION.

NOTES:

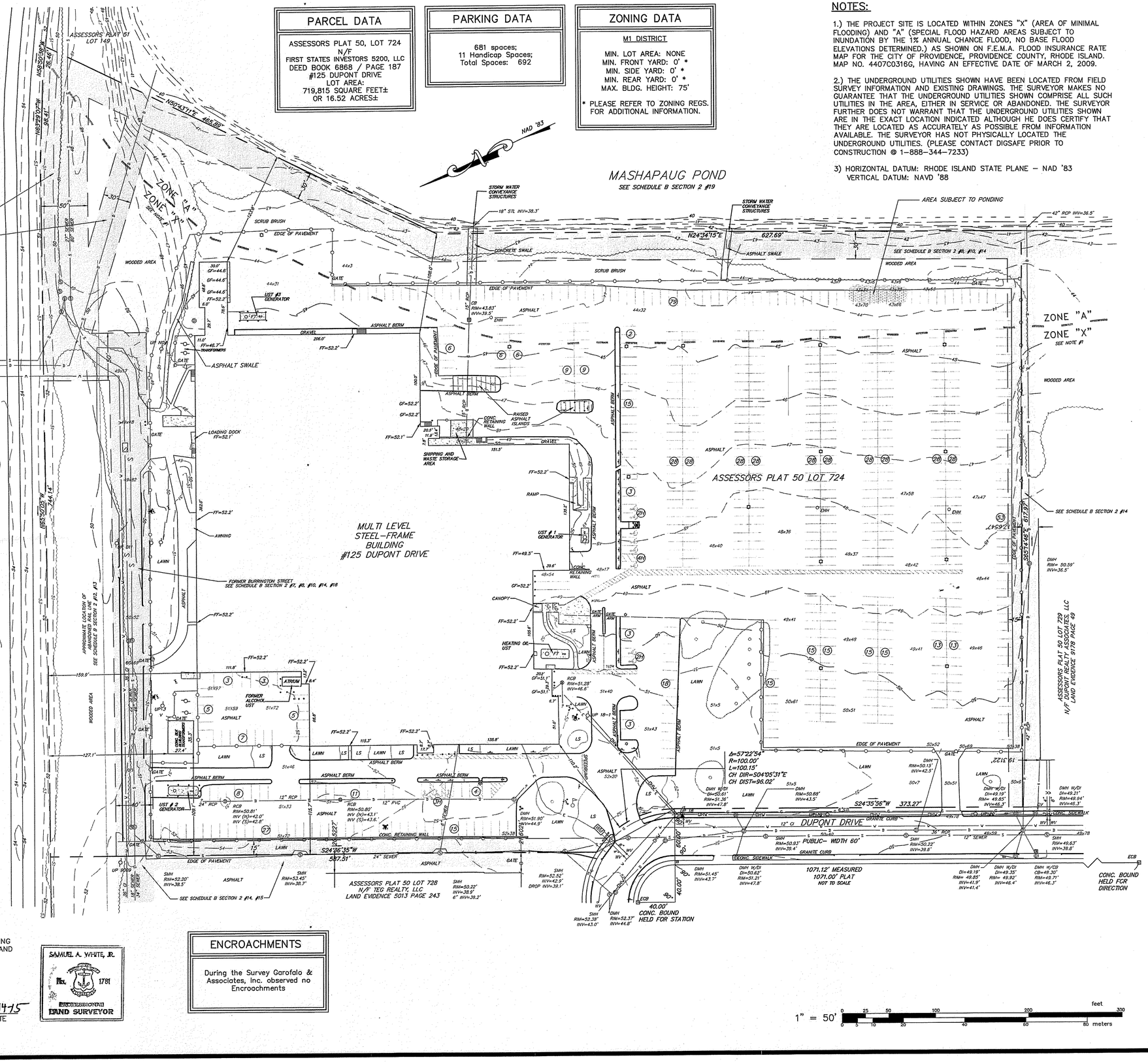
1.) THE PROJECT SITE IS LOCATED WITHIN ZONES "X" (AREA OF MINIMAL FLOODING) AND "A" (SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD, NO BASE FLOOD ELEVATIONS DETERMINED.) AS SHOWN ON F.E.M.A. FLOOD INSURANCE RATE MAP FOR THE CITY OF PROVIDENCE, PROVIDENCE COUNTY, RHODE ISLAND. MAP NO. 44070C0316G, HAVING AN EFFECTIVE DATE OF MARCH 2, 2009.

2.) THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. (PLEASE CONTACT DIGSAFE PRIOR TO CONSTRUCTION @ 1-888-344-7233)

3) HORIZONTAL DATUM: RHODE ISLAND STATE PLANE – NAD '83
VERTICAL DATUM: NAVD '88

GENERAL LEGEND & ABBREVIATIONS

N/F	NOW OR FORMERLY
CONC.	CONCRETE
FT	FUEL TANK
LS	LANDSCAPED AREA
FF	FINISH FLOOR
GF	GARAGE FLOOR
WM	WATER METER
(28)	PARKING SPACE COUNT
(5H)	PARKING SPACE COUNT (HANDICAPPED)
ECB	EXISTING CONCRETE BOUND
SIR	SET IRON ROD
S	SEWER MANHOLE
CB	CATCH BASIN
D	DRAIN MANHOLE
GV	GAS VALVE
WV	WATER VALVE
	HYDRANT
	FIRE VALVE
	UTILITY POLE
	GUY WIRE
	LIGHT POLE
	FIBER OPTICS BOX
	SIGNS
	FLAGPOLE
	CONCRETE AREA
	BOLLARD
	TREE
	TREELINE
	LOCUS PROPERTY LINE
	ASSESSORS LINE
	EASEMENT LINE
	FLOOD BOUNDARY LINE
50	CONTOUR (5')
47	CONTOUR (1')
49x48	SPOT GRADE
S	SEWER LINE
D	DRAIN LINE
W	WATER LINE
G	GAS LINE
OHW	OVERHEAD WIRES
	WROUGHT IRON STYLE FENCE
	CHAIN LINK FENCE
	RAILROAD TRACKS



NO.	REVISION	BY	DATE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUL
FILE # 160135
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

GAROFALO
GAROFALO & ASSOCIATES, INC.
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS
85 CORLISS STREET
P.O. BOX 6145
PROVIDENCE, R.I. 02940
TEL. 401-273-6000

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JOB NO.	DRAWN BY	MPH
7009.00		
DWG. NO. 7009–Alta.dwg	CALCS BY	MPH
SCALE: 1"=50'	APPROVED	SAW
	DATE:	JUNE, 2015

SHEET
1
OF 2 SHEETS

CERTIFICATION:

THIS SURVEY AND PLAN CONFORMS TO THE FOLLOWING CLASS STANDARDS AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.

BOUNDARY SURVEY: CLASS I
CULTURE & TOPOGRAPHY SURVEY: CLASS III

BY: _____ 1781 8-14-15
PROFESSIONAL LAND SURVEYOR REG. NO. DATE

SAMUEL A. WHITE, JR.
No. 1781
PROFESSIONAL LAND SURVEYOR

ENCROACHMENTS
During the Survey Garofalo & Associates, Inc. observed no Encroachments

VESTING DEED

EXHIBIT "A"

Legal Description

Record Legal

The real property and all buildings, structures, fixtures, improvements, machinery, equipment furnishings, and other personal property and air rights located on that certain tract or parcel of land situated on the easterly side of Dupont Drive in the City and County of Providence, State of Rhode Island, bounded and described as follows:

Beginning at a point of curvature on the easterly line of Dupont Drive, said point being sixty and 00/100 (60.00') feet radially from a concrete bound at a point of curvature on the westerly line of Dupont Drive;

Thence running S 24°39'50"W along said easterly line of Dupont Drive, a distance of three hundred seventy three and 27/100 (373.27') feet to a point on said street line;

Thence turning an interior angle of ninety degrees, nine minutes, eighteen seconds (90°09'18") and running S 65°10'52"E a distance of six hundred seventeen and 97/100 (617.97') feet to a point on the approximate top of slope line;

Thence turning an interior angle of eighty-nine degrees, forty-nine minutes, one second (89°49'01") and running bounded easterly by Mashapaug Pond, a distance of six hundred twenty-seven and 69/100 (627.69') feet to an angle point in said slope line;

Thence turning an interior angle of two hundred six degrees, eight minutes, fifty-six seconds (206°08'56") and running N 50°47'05"E along said approximate top of slope line and bounded easterly by Mashapaug Pond, a distance of four hundred sixty-five and 89/100 (465.89') feet to a point in said line, said point also being on the southerly line of that parcel of land now or formerly of the New York, New Haven and Hartford Railroad Company;

Thence turning an interior angle of seventy degrees, twenty-six minutes, eleven seconds (70°26'11") and running N 58°46'44"W along the southerly line of said railroad's land a distance of twenty-six and 46/100 (26.46') feet to an angle point in said line;

Thence turning an interior angle of one hundred seventy-five degrees twenty-one minutes, thirty-one seconds (175°21'31") and running one N 63°25'13"W along the southerly line of said railroad's land a distance of ninety-eight and 41/100 (98.41') feet to an angle point in said line;

Thence turning an interior angle of one hundred seventy-seven degrees, thirty-nine minutes, two seconds (177°39'02") and running N 65°46'11"W along the southerly line of said railroad's land a distance of seven hundred forty-four and 14/100 (744.14') feet to a point;

Thence turning an interior angle of ninety degrees, twenty-six minutes, forty seconds (90°26'40") and running S 24°40'29"W a distance of five hundred eighty-seven and 52/100 (587.52') feet to a point on a curve in said easterly line of Dupont Drive;

Thence turning left and curving to the right following a portion of said curve said portion having a radius of one hundred and 00/100 (100.00') feet and subtended by a central angle of fifty-seven degrees twenty-two minutes, thirty-four seconds (57°22'34") in an arc distance of one hundred and 14/100 (100.14') feet to a point of tangency in the easterly line of Dupont Drive, said point also being the point and place of beginning.

PARCEL DESCRIPTION AS SURVEYED:

The real property and all buildings, structures, fixtures, improvements, machinery, equipment furnishings, and other personal property and air rights located on that certain tract or parcel of land situated on the easterly side of Dupont Drive in the City and County of Providence, State of Rhode Island & Providence Plantations, bounded and described as follows:

Beginning at a point of curvature on the easterly line of Dupont Drive, said point being sixty and 00/100 (60.00') feet radially from the point of curvature on the westerly line of Dupont Drive;

Thence running S 24°35'56"W along said easterly line of Dupont Drive, a distance of three hundred seventy three and 27/100 (373.27') feet to a point on said street line;

Thence turning an interior angle of ninety degrees, nine minutes, eighteen seconds (90°09'18") and running S 65°14'46"E a distance of six hundred seventeen and 97/100 (617.97') feet to a point on the approximate top of slope line;

Thence turning an interior angle of eighty-nine degrees, forty-nine minutes, one second (89°49'01") and running N 24°34'15" E bounded easterly by Mashapaug Pond, a distance of six hundred twenty-seven and 69/100 (627.69') feet to an angle point in said slope line;

Thence turning an interior angle of two hundred six degrees, eight minutes, fifty-six seconds (206°08'56") and running N 50°43'11"E along said approximate top of slope line and bounded easterly by Mashapaug Pond, a distance of four hundred sixty-five and 89/100 (465.89') feet to a point in said line, said point also being on the southerly line of that parcel of land now or formerly of the New York, New Haven and Hartford Railroad Company;

Thence turning an interior angle of seventy degrees, twenty-six minutes, eleven seconds (70°26'11") and running N 58°50'38"W along the southerly line of said railroad's land a distance of twenty-six and 46/100 (26.46') feet to an angle point in said line;

Thence turning an interior angle of one hundred seventy-five degrees twenty-one minutes, thirty-one seconds (175°21'31") and running one N 63°29'07"W along the southerly line of said railroad's land a distance of ninety-eight and 41/100 (98.41') feet to an angle point in said line;

Thence turning an interior angle of one hundred seventy-seven degrees, thirty-nine minutes, two seconds (177°39'02") and running N 65° 50'05"W along the southerly line of said railroad's land a distance of seven hundred forty-four and 14/100 (744.14') feet to a point;

Thence turning an interior angle of ninety degrees, twenty-six minutes, four seconds (90°26'04") and running S 24°36'35"W a distance of five hundred eighty-seven and 51/100 (587.51') feet to a point on a curve in said easterly line of Dupont Drive;

Thence turning left and curving to the right following a portion of said curve said portion having a radius of one hundred and 00/100 (100.00') feet and subtended by a central angle of fifty-seven degrees twenty-two minutes, thirty-four seconds (57°22'54") in an arc distance of one hundred and 15/100 (100.15') feet to a point of tangency in the easterly line of Dupont Drive, said point also being the point and place of beginning.

SCHEDULE B SECTION 2

7.) Easement from The Providence Redevelopment Agency to The City of Providence recorded in Book 1128 at page 979 in the Providence Land Evidence Records. (shown)

8.) Easement from The Providence Redevelopment Agency to Narragansett Electric Company recorded in Book 1136 at Page 827 in the Providence Land Evidence Records. (shown)

9.) Easement from The Providence Redevelopment Agency to Narragansett Electric Company recorded in Book 1136 at Page 831 in the Providence Land Evidence Records. (shown)

10.)Easement from The Providence Redevelopment Agency to New England Telephone and Telegraph Company recorded in Book 1136 at page 834 in the Providence Land Evidence Records. (shown)

12.) Easement from the Providence Redevelopment Agency to Livermore and Knight Company recorded in Book 1145 at page 571 in the Providence Land Evidence Records. (shown)

13.) Agreement by and between the Providence Redevelopment Agency and Livermore and Knight Company recorded in Book 1145 at page 574 in the Providence Land Evidence Records. (shown)

14.) Easements as shown on the face of that certain plan recorded in Plan Book 44 at page 31 and amended in Plat Book 44 at page 36 in the Providence Land Evidence Records. (shown)

15.) Easements shown on the face of that certain plan recorded in Plan Book 76 at Page 60 in the Providence Land Evidence Records. (shown)

16.) Narragansett Bay Commission Permanent Easement recorded August 20, 2007 in Book 8817 at Page 25 in the Providence Land Evidence Records. (shown)

18.) Rights of others in and to the abandoned portions of Hamburg Street and Burrington Street comprising portions of the subject premises.

19.) Rights and easements of others to drain through or otherwise to use Mashapaug Pond forming a boundary of and/or located on the premises herein described, but this policy does not insure that the owner of the premises herein has any right to drain through or otherwise use said Mashapaug Pond across adjacent land. Further, title is not insured as to land now or formerly under the flow of said Mashapaug Pond, any land acquired by accretion or lost by erosion, any claims of accession, rights of alluvium and reliction.

CERTIFICATION:

TO: CITY OF PROVIDENCE WATER SUPPLY BOARD AND FIRST AMERICAN TITLE INSURANCE COMPANY:

COMMITMENT NUMBER: 3020-727331

EFFECTIVE DATE OF POLICY: APRIL 24, 2015

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH "MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS," JOINTLY ESTABLISHED AND ADOPTED BY ALTA, ACSM AND NSPS IN 2005, AND INCLUDES ITEMS 1,2,3,4,5,8,9,10,11B,&13 OF TABLE A THEREOF, PURSUANT TO THE ACCURACY STANDARDS AS ADOPTED BY ALTA, NSPS, AND ACSM AND IN EFFECT ON THE DATE OF THIS CERTIFICATION, UNDERSIGNED FURTHER CERTIFIES THAT THE SURVEY MEASUREMENTS WERE MADE IN ACCORDANCE WITH THE "MINIMUM ANGLE, DISTANCE, AND CLOSURE REQUIREMENTS FOR SURVEY MEASUREMENTS WHICH CONTROL LAND BOUNDARIES FOR ALTA/ACSM LAND TITLE SURVEYS."

Samuel A. White 8-14-15

DATE:

SAMUEL A. WHITE, JR.
No. 1781
PROFESSIONAL LAND SURVEYOR

PLAN REFERENCE:

1. "HUNTINGTON EXPRESSWAY INDUSTRIAL PARK PLAT" DEDICATED BY PROVIDENCE REDEVELOPMENT AGENCY, SCALE 1"=80' 1963 SHEETS 1-3. (PLAN BOOK 44, PAGE 31 IN PROVIDENCE CITY CLERKS OFFICE.)

ALTA/ASCM SURVEY
FOR
ASSESSORS PLAT 50 LOT 724
SITUATED ON
125 DUPONT DRIVE
PROVIDENCE, RHODE ISLAND
PREPARED FOR
CITY OF PROVIDENCE WATER SUPPLY BOARD

NO.	REVISION	BY	DATE

DEPARTMENT OF PLANNING AND DEVELOPMENT
DEVELOPMENT REVIEW PROGRAM
PRELIMINARY APPROVAL
JUL 1 2016
FILE # 16-0135
CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

GAROFALO
GAROFALO & ASSOCIATES, INC.
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS
85 CORLISS STREET
P.O. BOX 6145
PROVIDENCE, R.I. 02940
TEL. 401-273-6000

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JOB NO. 7009.00	DRAWN BY MPH
DWG. NO. 7009-Alta.dwg	CALCS BY MPH
SCALE: 1"=50'	APPROVED SAW
	DATE: JUNE, 2015

SHEET

2

OF 2 SHEETS

REFERENCE

1. EXISTING CONDITIONS TAKEN FROM PLAN "ALTA/ASCM SURVEY FOR ASSESSORS PLAT 50, LOT 724 SITUATED AT 125 DUPONT DRIVE PROVIDENCE, RI" PROVIDED BY GAROFALO & ASSOCIATES, INC. OF PROVIDENCE, RHODE ISLAND DATED AUGUST 14, 2015.
2. A PORTION OF THE SITE IS LOCATED WITHIN ZONE 'A' AS DEPICTED ON THE FEMA FLOOD INSURANCE RATE MAP 44007C0316G, DATED MARCH 2, 2009. REMAINING SITE AREA IS LOCATED WITHIN ZONE 'X'.

GENERAL NOTES

1. PER AVAILABLE RIDEM MAPPING, THE PROJECT SITE IS LOCATED WITHIN A NATURAL HERITAGE AREA.
2. THE STATE OF RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION OR LATEST REVISION, AND THE RHODE ISLAND STANDARD DETAILS ARE MADE A PART HEREOF AS FULLY AND COMPLETELY AS IF ATTACHED HERETO. THE 2004 EDITION OF THE STANDARD SPECIFICATIONS MAY BE OBTAINED AT THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION.
3. THE CONTRACTOR SHALL MAKE ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS, PAY ALL FEES AND POST ALL BONDS ASSOCIATED WITH THE SAME, AND COORDINATE WITH THE OWNER AND OWNER'S REPRESENTATIVE AS REQUIRED.
4. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY. THE CONTRACTOR SHALL PROVIDE TEMPORARY FENCING AND/OR BARRIERS AROUND ALL OPEN EXCAVATED AREAS IN ACCORDANCE WITH OSHA STANDARDS AND THE CITY OF PROVIDENCE REQUIREMENTS.
5. IF ANY DEVIATION OR ALTERATION OF THE WORK PROPOSED ON THESE DRAWINGS IS REQUIRED, THE CONTRACTOR IS TO IMMEDIATELY CONTACT AND COORDINATE WITH THE OWNER OR THE OWNER'S REPRESENTATIVE.
6. ANY AREA OUTSIDE OF THE LIMIT OF WORK THAT IS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO THE OWNER.
7. ALL SITE WORK SHALL MEET OR EXCEED THE SITE WORK SPECIFICATIONS PREPARED FOR THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK WHICH WOULD BE AFFECTED.
8. ALL UTILITIES (LOCATION & ELEVATION) SHOWN SHALL BE CONSIDERED APPROXIMATE ONLY. BEFORE COMMENCING SITE WORK IN ANY AREA, CONTACT "DIG SAFE" AT 1-888-344-7233 TO ACCURATELY LOCATE UNDERGROUND UTILITIES. ALL DAMAGE TO EXISTING UTILITIES OR STRUCTURES, AND THE COST TO REPAIR THE DAMAGES TO INITIAL CONDITIONS, AS SHOWN ON THE PLANS SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
9. NO EXCAVATION SHALL BE DONE UNTIL UTILITY COMPANIES ARE PROPERLY NOTIFIED IN ADVANCE. NOTE THAT NOT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT ALL RESPECTIVE UTILITY COMPANIES TO VERIFY AND LOCATE EXISTING UTILITIES.
10. ALL ROADWAY WORK SHALL CONFORM TO THE CITY OF PROVIDENCE DEPARTMENT OF PUBLIC WORKS, RHODE ISLAND DEPARTMENT OF TRANSPORTATION (RIDOT) REQUIREMENTS AND RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2004 EDITION OR LATEST REVISION.
11. ALL SIGNS SHALL BE REFLECTORIZED TYPE III SHEETING AND CONFORM WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST REVISION.

LAYOUT NOTES

1. ALL LINES ARE PERPENDICULAR OR PARALLEL TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED.
2. ACCESSIBLE RAMPS SHALL BE INSTALLED PER THE AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES.
3. CONTRACTOR SHALL PERFORM BENCHMARK FIELD LEVEL VERIFICATION AND COORDINATE LAYOUT CHECK PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONTACT PARE CORPORATION IF ANY DISCREPANCIES ARE FOUND.
4. DIMENSIONS OF PARKING SPACES AND DRIVEWAYS ARE FROM FACE OF CURB TO FACE OF CURB. DIMENSIONS FROM BUILDING ARE FROM FACE OF BUILDING TO FACE OF CURB.
5. THE PROPOSED WALKWAYS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2% AND RUNNING SLOPE OF 5% AS SHOWN ON THE CONSTRUCTION DETAILS AND GRADING PLAN.

DEMOLITION NOTES

1. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION OF STRUCTURES, PAVEMENT AND CONCRETE MATERIALS, AND UTILITIES WITH APPROPRIATE PROPOSED SITE GENERAL, GRADING, AND UTILITY DRAWINGS.
2. ALL NOTED UTILITIES TO BE REMOVED AND DISPOSED OF, RELOCATED, OR CAPPED REPRESENT ALL KNOWN SITE CONDITIONS TO BE DEMOLISHED. CONTRACTOR TO COORDINATE ALL UNFORESEEN CONDITIONS WITH THE PROJECT ENGINEER, OWNER AND/OR RESPECTIVE UTILITY COMPANIES PRIOR TO PROCEEDING WITH WORK.
3. WATER, SEWER, DRAINAGE, AND OTHER SITE UTILITIES SERVICING THE EXISTING FACILITIES ARE TO REMAIN ACTIVE THROUGHOUT CONSTRUCTION.

GRADING AND UTILITY NOTES

1. UNDERGROUND UTILITIES WERE COMPILED FROM AVAILABLE RECORD PLANS OF UTILITY COMPANIES AND PUBLIC AGENCIES AND ARE APPROXIMATE AND ASSUMED. BEFORE COMMENCING SITE WORK IN ANY AREA , CONTACT "DIG SAFE" AT 1-888-DIG-SAFE TO ACCURATELY LOCATE UNDERGROUND UTILITIES. ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES AS SHOWN ON THE PLANS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. COSTS OF SUCH DAMAGE SHALL BE THE CONTRACTOR'S RESPONSIBILITY. NO EXCAVATION SHALL BE DONE UNTIL UTILITY COMPANIES ARE PROPERLY NOTIFIED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK WHICH WOULD BE AFFECTED. NO FIELD ADJUSTMENTS IN THE LOCATION OF SITE ELEMENTS SHALL BE MADE WITHOUT THE ENGINEERS APPROVAL.
3. ALL WORK PERFORMED AND ALL MATERIALS FURNISHED SHALL CONFORM WITH THE LINES AND GRADES ON THE PLANS AND SITE WORK SPECIFICATIONS.
4. AT ALL LOCATIONS WHERE EXISTING CURBING OR PAVEMENT ABUT NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE. BLEND NEW PAVEMENT AND CURBS SMOOTHLY INTO EXISTING BY MATCHING LINES, GRADES AND JOINTS.
5. ALL UTILITY COVERS, GRATES, ETC. SHALL BE ADJUSTED TO BE FLUSH WITH THE SURROUNDING SURFACE OR PAVEMENT FINISH GRADE. RIM ELEVATIONS OF STRUCTURES AND MANHOLES ARE APPROXIMATE. FINAL ELEVATIONS ARE TO BE SET FLUSH AND CONSISTENT WITH THE GRADING PLANS.
6. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION OF PRIVATE UTILITIES BY THE UTILITY COMPANIES, AS REQUIRED.
7. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION.
8. THE CONTRACTOR SHALL PROTECT ALL UNDERGROUND DRAINAGE, SEWER, AND UTILITY FACILITIES FROM EXCESSIVE VEHICULAR LOADS DURING CONSTRUCTION. ANY DAMAGE TO THESE FACILITIES RESULTING FROM CONSTRUCTION LOADS WILL BE RESTORED TO ORIGINAL CONDITION.
9. DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES BY PROVIDING TEMPORARY SUPPORTS OR SHEETING AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
10. ALL DRAIN PIPING SHALL BE SMOOTH INTERIOR CORRUGATED HDPE PIPING, UNLESS OTHERWISE NOTED.
11. EXCAVATION REQUIRED WITHIN THE PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO ADDITIONAL COST TO THE OWNER.
12. PITCH EVENLY BETWEEN SPOT GRADES. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MIN. OF 1/8" PER FOOT UNLESS SPECIFIED.
13. ALL WATER DISTRIBUTION PIPING AND FITTINGS SHALL ADHERE TO THE "PROVIDENCE WATER SUPPLY BOARD" SPECIFICATIONS AND SHALL BE INSPECTED BEFORE, DURING, AND AFTER CONSTRUCTION, PRIOR TO TAPPING THE SERVICE MAIN. ALL WATER LINE BENDS AND TEES SHALL BE REINFORCED WITH THRUST BLOCKS.

PARKING REQUIREMENTS

	VEHICLE		BICYCLE	
	TOWN REQUIRED	PROVIDED	TOWN REQUIRED	PROVIDED
OFFICE SPACE (108,400 SF)	217	–	22	23
VEHICLE STORAGE/MAINTENANCE (57,575 SF)	58	–	–	–
TOTAL	275	315	22*	23**
VEHICLE PARKING REQUIREMENTS: OFFICE SPACE: 1 SPACE/500 SF PUBLIC WORKS: 1 SPACE/1000 SF			BICYCLE PARKING REQUIREMENTS: OFFICE SPACE: 1 SPACE/5,000 SF	

6 MOTORCYCLE PARKING SPACES ARE PROVIDED IN ADDITION TO THE VEHICLE PARKING SPACES.

* 50% OF OFFICE BICYCLE PARKING SPACES SHALL BE LONG-TERM
** 12 SPACES ARE PROVIDED FOR SHORT-TERM BICYCLE PARKING; 11 SPACES ARE PROVIDED WITHIN THE BUILDING FOR LONG-TERM BICYCLE PARKING

EROSION AND SEDIMENTATION CONTROL NOTES

1. SOIL EROSION AND SEDIMENTATION CONTROLS SHALL BE PROVIDED IN ACCORDANCE WITH THE "RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK", LATEST REVISION, AND AS DEPICTED ON THE PLANS.
2. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE CONDITIONS ISSUED FOR THE PROJECT BY RIDEM AND BE RESPONSIBLE FOR CONFORMANCE WITH ALL PERMIT REQUIREMENTS AND CONSTRUCTION DOCUMENTS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING OR INSTALLING ALL TEMPORARY SEDIMENT AND EROSION CONTROLS AS SHOWN ON THESE PLANS AND SHALL MAINTAIN ALL EROSION CONTROL MEASURES AS NECESSARY DURING THE ENTIRE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL REPLACE DAMAGED EROSION CONTROLS AT THE OWNERS AND ENGINEERS REQUEST AT NO ADDITIONAL EXPENSE TO THE OWNER.
4. EROSION CONTROL BARRIERS SHALL BE INSTALLED AS SHOWN ON THE EROSION CONTROL PLAN PRIOR TO COMMENCEMENT OF CONSTRUCTION OPERATIONS.
5. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED ON A WEEKLY BASIS AND AFTER EACH STORM EVENT OF 0.25 INCH OR GREATER DURING CONSTRUCTION TO INSURE THAT CHANNELS, DITCHES AND PIPES ARE CLEAR OF DEBRIS AND THAT THE EROSION CONTROL BARRIERS ARE INTACT. IDENTIFIED DEFICIENCIES SHALL BE CORRECTED IMMEDIATELY.
6. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS AS NECESSARY, OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
7. THE CONTRACTOR SHALL CLEAN AND MAINTAIN EROSION CONTROL BARRIER WHEN SEDIMENT ACCUMULATES TO ONE HALF THE HEIGHT OF THE COMPOST FILTER SOCK. MATERIAL COLLECTED FROM THE SILTATION BARRIERS SHALL BE REMOVED AS NECESSARY AND DISPOSED IN AN UPLAND AREA.
8. THE CONTRACTOR SHALL SCHEDULE HIS WORK TO ALLOW THE FINISHED SUB GRADE ELEVATIONS TO DRAIN PROPERLY WITHOUT PONDING. SPECIFICALLY, ALLOW WATER TO ESCAPE WHERE PROPOSED CURB MAY RETAIN RUNOFF PRIOR TO APPLICATION OF SURFACE PAVING. PROVIDE TEMPORARY POSITIVE DRAINAGE, AS REQUIRED, TO STABILIZED DISCHARGE POINTS.
9. INSTALLATION OF THE EROSION CONTROL BARRIERS AS ILLUSTRATED IS INTENDED TO REPRESENT THE MINIMUM SEDIMENTATION CONTROL FACILITIES NECESSARY TO MEET ANTICIPATED SITE CONDITIONS. ADDITIONAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
10. REQUIRED SEDIMENTATION CONTROL FACILITIES MUST BE PROPERLY ESTABLISHED, CLEARLY VISIBLE AND IN OPERATION PRIOR TO INITIATING ANY LAND CLEARING ACTIVITY AND/OR OTHER CONSTRUCTION RELATED WORK. SUCH FACILITIES SHALL REPRESENT THE LIMIT OF WORK. WORKERS SHALL BE INFORMED THAT NO CONSTRUCTION ACTIVITY IS TO OCCUR BEYOND THE LIMIT OF WORK AT ANY TIME THROUGHOUT THE CONSTRUCTION PERIOD.
11. THE CONTRACTOR SHALL MAINTAIN A SUFFICIENT RESERVE OF VARIOUS EROSION CONTROL MATERIALS ONSITE AT ALL TIMES FOR EMERGENCY PURPOSES OR ROUTINE MAINTENANCE.
12. DEWATERING WASTE WATERS PUMPED FROM EXCAVATIONS WILL BE CONVEYED BY HOSE TO AN UPLAND AREA AND DISCHARGED INTO DEWATERING BASINS OR SEDIMENTATION BAGS.
13. THE CONTRACTOR SHALL NOT REMOVE ANY COMPOST FILTER SOCKS OR OTHER EROSION CONTROLS UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED.
14. CONSTRUCTION SITE WASTE MATERIALS WILL BE PROPERLY CONTAINED ONSITE AND DISPOSED OFF SITE AT A LOCATION IN ACCORDANCE WITH THE LOCAL AND STATE REGULATIONS.
15. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS UPON COMPLETION OF WORK IN THAT AREA.
16. ALL DRAINAGE STRUCTURES SHALL BE CLEARED OF ACCUMULATED SEDIMENT PRIOR TO ACCEPTANCE OF FINAL PROJECT.
17. NEWLY VEGETATED AREAS SHALL BE MAINTAINED REGULARLY TO ENSURE STABLE VEGETATED SURFACES.
18. EROSION AND SEDIMENTATION CONTROLS WILL BE UTILIZED AS SHOWN ON THE PLANS. POTENTIAL EROSION AND SEDIMENTATION PROBLEMS ASSOCIATED WITH THE CONSTRUCTION OF THE PROJECT WILL BE AVOIDED THROUGH THE PROJECT SCHEDULING AND THE USE OF APPROPRIATE STANDARD CONTROLS (RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL HANDBOOK) AS ILLUSTRATED ON THE PROJECT PLANS.
19. WHERE EROSION CONTROLS ARE NEEDED ON IMPERVIOUS SURFACES, THE CONTRACTOR SHALL PROVIDE A SAND BAG EROSION CONTROL BARRIER.
20. CONSTRUCTION ENTRANCE PROTECTION STONE STABILIZATION PAD SHALL BE ESTABLISHED AT ALL POINTS OF INGRESS AND EGRESS.
21. TEMPORARY DIVERSION (TD) MAY CONSIST OF A DITCH OR SWALE, OR MAY BE ACHIEVED USING WOOD CHIPS, COIR LOGS, OR SIMILAR MATERIALS.
22. TEMPORARY SEDIMENT TRAPS (TST) AND TEMPORARY SWALES (TSW) SHALL BE SIZED BY THE CONTRACTOR USING THE PARAMETERS CONTAINED IN THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL MANUAL.
23. THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN SILT SACKS IN ALL EXISTING AND NEWLY INSTALLED CATCH BASINS UNTIL THE UPSTREAM AREA IS STABILIZED.

STORM WATER MANAGEMENT SYSTEM INSPECTION AND MAINTENANCE NOTES

DURING CONSTRUCTION

1. THE CONTRACTOR SHALL REMOVE SEDIMENT AND DEBRIS FROM ALL CATCH BASINS, MANHOLES, AND THE DRAINAGE SYSTEM ON A ROUTINE BASIS, IMMEDIATELY FOLLOWING SITE STABILIZATION, AND PRIOR TO PROJECT COMPLETION AND ACCEPTANCE.
2. THE CLOSED DRAINAGE SYSTEM AND ASSOCIATED STRUCTURES SHALL BE CLEANED AND FLUSHED BY THE CONTRACTOR AT THE COMPLETION OF CONSTRUCTION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTION AND MAINTENANCE OF THE DRAINAGE SYSTEM UNTIL ACCEPTANCE OF THE SYSTEM BY THE ENGINEER AND THE OWNER. FOLLOWING ACCEPTANCE OF THE PROPOSED DRAINAGE SYSTEM PROPOSED FOR THIS SITE, THE OWNER OF THE SITE SHALL BE RESPONSIBLE FOR THE LONG-TERM INSPECTION, OPERATION, AND MAINTENANCE OF THE DRAINAGE SYSTEM.
3. ANY ACCUMULATION OF PONDING WATER IN AREAS WITHIN THE LIMITS OF DISTURBANCE, OTHER THAN DESIGNATED AREAS, SHALL BE REMOVED ACCORDINGLY AND PREVENTED IN THE FUTURE.

POST CONSTRUCTION

1. TRASH, LITTER, SEDIMENT AND OTHER DEBRIS SHALL BE REMOVED FROM ANY STORM WATER FACILITY (INCLUDING CATCH BASINS, MANHOLES, INLET AND OUTLET STRUCTURES, AND THE STORMWATER TREATMENT SYSTEM) AT LEAST TWICE A YEAR, PREFERABLY SPRING AND FALL, AT THE COST OF THE OWNER.
2. THE PARKING LOT AND DRIVES SHALL BE SWEPT BY THE OWNER AS EARLY AS POSSIBLE EVERY SPRING AND ONCE IN THE FALL TO REMOVE SEDIMENTS.
3. ALL CLEANING AND MAINTENANCE OF DRAINAGE SYSTEM BMP'S SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER.

SAND FILTER NOTES

FOLLOWING CONSTRUCTION, THE COMPLETION OF THE INSPECTION AND MAINTENANCE REQUIREMENTS BELOW SHALL BE THE RESPONSIBILITY OF THE OWNER.

1. SAND FILTER AND SEDIMENT FOREBAY SHALL BE INSPECTED AFTER EVERY MAJOR STORM OF 2.7" OR GREATER FOR TRASH, DEBRIS, SEDIMENT, EROSION, STANDING WATER, AND OVERALL PERFORMANCE. DEFECTS SHALL BE REPAIRED BY THE OWNER.
2. WHEN THE FILTERING CAPACITY OF THE FILTER BED DIMINISHES, THE TOP FEW INCHES OF THE SAND FILTER SHALL BE REMOVED AND REPLACED WITH CLEAN FILTER SAND. THE REMOVED SEDIMENT SHALL BE DISPOSED OF AT AN APPROVED AND PERMITTED LOCATION.
3. IF RUNOFF TAKES MORE THAN 36 HOURS TO FLOW FROM THE SEDIMENT FOREBAY TO THE SAND FILTER, THE SEDIMENT FOREBAY CHECK DAM SHALL BE REPLACED.
4. THE SEDIMENT FOREBAY SHALL BE CLEANED OUT IF SEDIMENT REACHES 4.5" OR MORE IN DEPTH.
5. OWNER SHALL MOW GRASS WITHIN SAND FILTER A MINIMUM OF 3 TIMES ANNUALLY, TO MAINTAIN A MAXIMUM GRASS HEIGHT OF 12". VEGETATION IN THE SEDIMENT FOREBAY SHALL BE LIMITED TO A HEIGHT OF 18".
6. TRASH AND DEBRIS SHALL BE REMOVED FROM THE FOREBAY AND SAND FILTER AS NECESSARY.
7. REMOVE ACCUMULATED SEDIMENT FROM THE SAND FILTERS TWICE ANNUALLY, IN LATE SPRING OR EARLY FALL, IF SEDIMENT EXCEEDS 1" IN THE SAND FILTER.
8. IF PONDING EXCEEDS 48 HOURS, THE OWNER SHALL REMOVE AND REPLACE FILTER MEDIA.
9. FOLLOWING THE FIRST 6 MONTHS OF CONSTRUCTION, THE OWNER SHALL INSPECT FILTER PRACTICES AFTER THE FIRST TWO STORMS OF 1.0" OR GREATER.

BIORETENTION AREA INSPECTION, MAINTENANCE, AND REPAIR NOTES

FOLLOWING CONSTRUCTION, THE COMPLETION OF THE INSPECTION AND MAINTENANCE REQUIREMENTS BELOW SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER.

1. THE BIORETENTION AREA AND SEDIMENT FOREBAY SHALL BE INSPECTED AFTER EVERY STORM OF 2.7" INCH OR GREATER FOR TRASH, DEBRIS, SEDIMENT, EROSION, STANDING WATER, AND OVERALL PERFORMANCE. DEFECTS SHALL BE REPAIRED BY THE OWNER.
2. THE BIORETENTION AREA SHALL BE INSPECTED FOLLOWING THE FIRST 6 MONTHS AFTER CONSTRUCTION FOLLOWING THE FIRST TWO STORM EVENTS OF 1" OR MORE.
3. THE OWNER SHALL MOW GRASS WITHIN THE BIORETENTION AREA TWICE ANNUALLY, ONCE IN LATE SPRING AND ONCE IN EARLY FALL. THE VEGETATION SHALL NOT EXCEED 18" IN HEIGHT.
4. THE OWNER SHALL RE-MULCH BIORETENTION AREAS IN THE SPRING EACH YEAR.
5. IN SPRING, THE OWNER SHALL TRIM VEGETATION AND REMOVE DEAD VEGETATION FROM THE BIORETENTION AREA.
6. REMOVE ACCUMULATED SEDIMENT FROM THE SEDIMENT FOREBAY AND BIORETENTION CELLS TWICE ANNUALLY, ONCE IN THE LATE SPRING AND ONCE IN THE EARLY FALL, OR IF SEDIMENT EXCEEDS 1" IN THE BIORETENTION AREA CELLS. REMOVE ACCUMULATED SEDIMENT FROM THE SEDIMENT FOREBAY IF SEDIMENT REACHES 12" OR MORE IN DEPTH.
7. IF PONDING EXCEEDS 48 HOURS, REMOVE ALL DISCOLORED MATERIAL AND RE-MULCH FILTER SURFACE.
8. IF RUNOFF TAKES MORE THAN 36 HOURS TO FLOW FROM THE SEDIMENT FOREBAY TO THE BIORETENTION AREA, THE SEDIMENT FOREBAY CHECK DAM SHALL BE REPLACED.
9. TRASH AND DEBRIS SHALL BE REMOVED FROM THE BIORETENTION AREA AS NECESSARY.

LEGEND

	EXISTING	PROPOSED
PROPERTY LINE		
CONTOUR	55	262
SPOT ELEVATION	X 407.5	X 261.5
DRAINAGE LINE	D	D
WATER LINE	W	W
SANITARY SEWER LINE	S	S
GAS LINE	G	
ELECTRIC	E	
VENT		V
CATCH BASIN		
HYDRANT		
DRAINAGE MANHOLE		
SEWER MANHOLE		
CLEANOUT		
UTILITY POLE		
WATER VALVE	WV	
GAS GATE	GG	
LIGHT POLE		
TEST PIT	TP-5	
TREE LINE		
CHAIN LINK FENCE		
SIGN		
CURBING		
EDGE OF PAVEMENT		
SAWCUT LINE		
COMPOST FILTER SOCK		
LIMIT OF DISTURBANCE		LOD
NO. OF PARKING SPACES		#

(ATG) = ADJUST TO GRADE
(BB) = BITUMINOUS BERM
(BC) = BITUMINOUS CONCRETE (SEE DETAIL)
(BOL) = BOLLARD
(CFS) = COMPOST FILTER SOCK
(CLF) = CHAINLINK FENCE
(CM) = SAWCUT AND MATCH
(CP) = CONCRETE PAD
(CW) = CROSS WALK (SEE DETAIL)
(DB) = REMOVE & DISPOSE BOLLARD
(DC) = REMOVE & DISPOSE CURB AND BERM
(DCP) = REMOVE & DISPOSE CONCRETE PAD
(DCW) = REMOVE & DISPOSE CONCRETE WALK
(DD) = REMOVE & DISPOSE DRAINAGE
(DF) = REMOVE & DISPOSE FENCE
(DFP) = REMOVE & DISPOSE FLEXIBLE PAVEMENT
(DH) = REMOVE & DISPOSE HYDRANT
(DLP) = REMOVE & DISPOSE LIGHT POLE
(DS) = REMOVE & DISPOSE SIGN
(DSTR) = REMOVE & DISPOSE STAIR
(DUP) = REMOVE & DISPOSE UTILITY POLE
(DUST) = REMOVE & DISPOSE UNDERGROUND STORAGE TANK
(DWP) = DETECTABLE WARNING PAVER (SEE DETAIL)
(ETR) = EXISTING TO REMAIN. PROTECT DURING CONSTRUCTION.
(G) = GRAVEL DRIVE (SEE DETAIL)
(GV) = GATE VALVE
(HCPS) = HANDICAP ACCESSIBLE PARKING SIGN
(HYD) = HYDRANT
(JB) = JERSEY BARRIER
(PCFES) = PRECAST CONCRETE FLARED END SECTION (SEE R.I. STD. 2.3.0)
(PM) = PAVEMENT MARKINGS
(RCR) = REMOTE CARD READER
(RLS) = RIPRAP LEVEL SPREADER
(RR) = RIPRAP EDGE
(RS) = RIPRAP SPILLWAY
(R&D) = REMOVE AND DISPOSE
(R&R) = REMOVE AND RESET
(SFCD) = SEDIMENT FOREBAY CHECK DAM
(SHP) = HANDICAP PARKING PAVEMENT MARKING (SEE DETAIL)
(SLG) = SLIDING GATE
(SM) = SEDIMENT MARKER
(SRW) = SEGMENTAL BLOCK RETAINING WALL
(SWG) = SWING GATE
(TDS) = TEMPORARY DIVERSION SWALE
(TGP) = TREE GROUP PROTECTION DETAIL
(TIP) = TEMPORARY INLET PROTECTION
(TST) = TEMPORARY SEDIMENT TRAP
(4W) = 4" SOLID WHITE EPOXY RESIN PAVEMENT MARKING
(12W) = 12" SOLID WHITE EPOXY RESIN PAVEMENT MARKING

(2.1.0) = CONCRETE HEADWALLS FOR PIPE CULVERTS – R.I. STD. 2.1.0
(2.3.0) = PRECAST CONCRETE FLARED END SECTION – R.I. STD. 2.3.0
(4.2.0) = PRECAST 4'-0" ROUND MANHOLE – R.I. STD. 4.2.0
(4.2.2) = PRECAST 6'-0" ROUND MANHOLE – R.I. STD. 4.2.2
(4.4.0M) = PRECAST 4'-0", 5'-0", OR 6'-0" ROUND CATCH BASIN – R.I. STD. 4.4.0M
(4.7.2) = ALTERNATE TOP COVERS FOR ROUND PRECAST MANHOLES AND CATCH BASINS – R.I. STD. 4.7.2
(7.1.0) = PRECAST CONCRETE CURB – R.I. STD. 7.1.0
(7.1.2) = 6'-0" PRECAST CONCRETE TRANSITION CURB – R.I. STD. 7.1.2
(7.2.4) = PRECAST CONCRETE CAR STOPS – R.I. STD. 7.2.4
(7.3.0) = GRANITE CURB – R.I. STD. 7.3.0
(7.3.2) = 6'-0" GRANITE TRANSITION CURB – R.I. STD. 7.3.2
(7.3.3) = GRANITE WHEELCHAIR RAMP TRANSITION CURB – R.I. STD. 7.3.3
(7.3.4) = GRANITE 2'-0" RADIUS CORNER – R.I. STD. 7.3.4
(34.2.0) = STEEL BEAM GUARDRAIL – R.I. STD. 34.2.0
(34.3.2) = TERMINAL END SECTION (SINGLE FACE) – R.I. STD. 34.3.2
(43.1.0M) = CEMENT CONCRETE SIDEWALK (MODIFIED) – R.I. STD. 43.1.0M
(43.3.0) = WHEELCHAIR RAMP – R.I. STD. 43.3.0
(43.3.1) = WHEELCHAIR RAMP FOR LIMITED RIGHT-OF-WAY AREAS – R.I. STD. 43.3.1
(48.1.0) = DETECTABLE WARNING SYSTEM – R.I. STD. 48.1.0

ASSF = AREA SUBJECT TO STORM FLOWAGE
BIT. = BITUMINOUS
BM = BENCHMARK
BS = BOTTOM OF STAIR
CB = 4' DIA. CATCH BASIN UNLESS OTHERWISE NOTED
CI = CAST IRON
CL. = CLASS
CLDI = CEMENT-LINED DUCTILE IRON
CLF = CHAIN LINK FENCE
C.O. = CLEANOUT
CONC. = CONCRETE
DMH = DRAIN MANHOLE
ELEV.EL = ELEVATION
EOP = EDGE OF PAVEMENT
EXIST. = EXISTING
EXCB = EXISTING CATCH BASIN
EXDMH = EXISTING DRAIN MANHOLE
FFE = FINISH FLOOR ELEVATION
FND. = FOUND
GRAN. = GRANITE
GTD = GRADE TO DRAIN
HDPE = HIGH DENSITY POLYETHYLENE PIPE
HYD = HYDRANT
INV. = INVERT
LOD = LIMIT OF DISTURBANCE
LP = LIGHT POLE
MAX. = MAXIMUM
MIN. = MINIMUM
MON. = MONITORING
MUTCD = MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
PE = POLYETHYLENE
PERF. = PERFORATED
PVC = POLYVINYL CHLORIDE
RCP = REINFORCED CONCRETE PIPE
RIDEM = RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
R.I.D.O.T. = RHODE ISLAND DEPARTMENT OF TRANSPORTATION
R.I. STD. = RHODE ISLAND STANDARD
SDR = STANDARD DIMENSIONAL RATIO
SMH = SEWER MANHOLE
TD = TEMPORARY DIVERSION
TP = TEST PIT
TS = TOP OF STAIR
(TYP.) = TYPICAL
UP = UTILITY POLE
VCC = VERTICAL CONCRETE CURB
VGC = VERTICAL GRANITE CURB
W/ = WITH
YD = YARD DRAIN

ZONING TABLE

	REQUIRED	PROVIDED
ZONE: M-1 USE: OFFICE/VEHICLE STORAGE AND MAINTENANCE		
MINIMUM LOT AREA	NONE	16.52± AC
MAXIMUM BUILDING HEIGHT	75'	25'
FRONT SETBACK	0'	110'
CORNER SETBACK	0'	110'
SIDE SETBACK	0'	108'
REAR SETBACK	0'	108'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF
DATED JUL 1 2016 FILE # 160035
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
1 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Charles A. Horbert

PARE
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

OWNER/APPLICANT:

PROVIDENCE WATER
125 DUPONT DRIVE
PROVIDENCE, RI
(401) 521-6300

Providence Water - Operations Facility

125 Dupont Drive
Providence, Rhode Island

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER
(CIVIL)

REVISIONS:

PROJECT NO.:	15093.01
DATE:	MAY 24, 2016
SCALE:	NOT TO SCALE
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

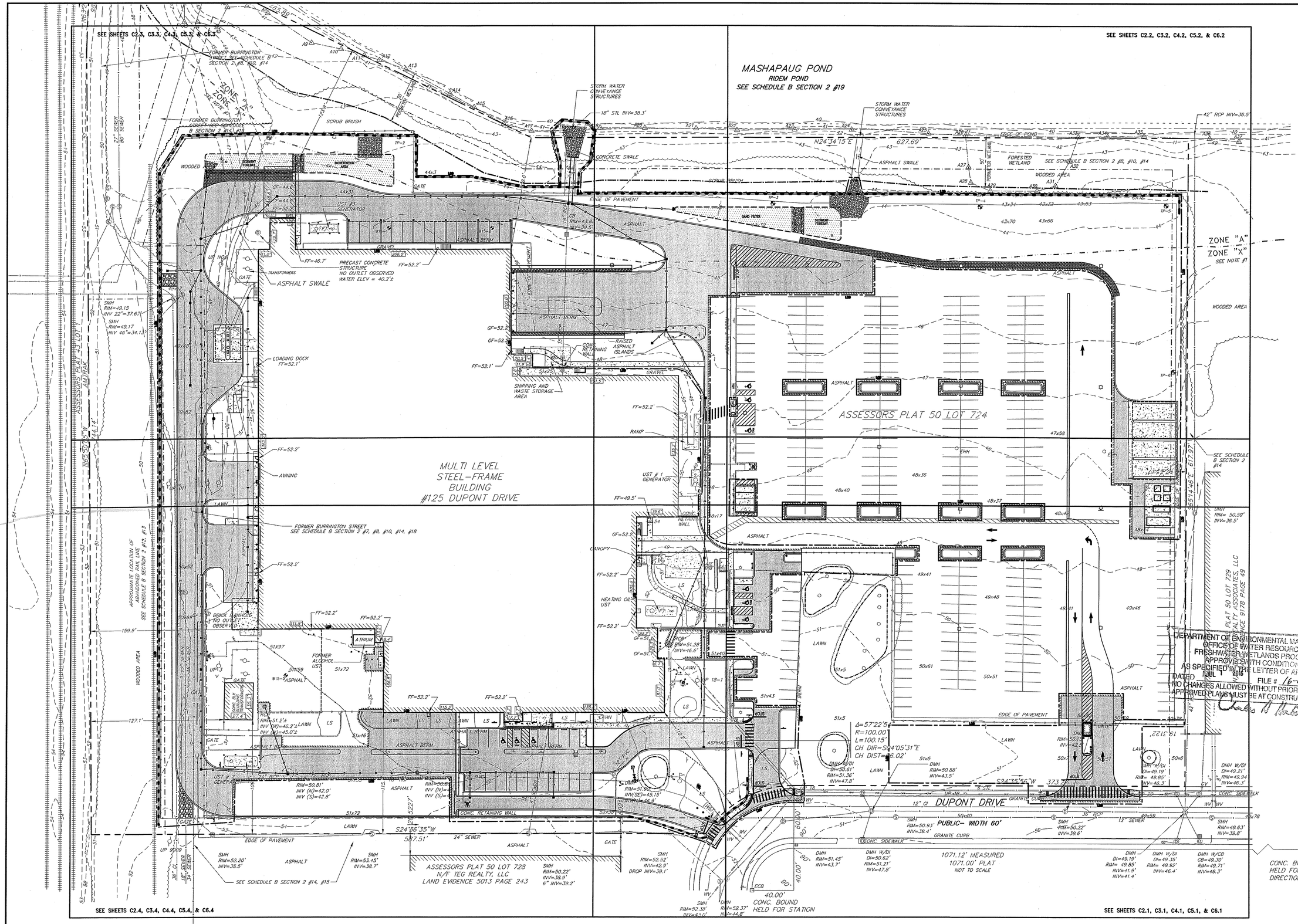
DRAWING TITLE:

NOTES & LEGEND

DRAWING NO.:

C1.1

SHEET NO. 3 OF 33



PARE
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125 Dupont Drive
Providence, Rhode Island

DAVID L. POTTER
No. 8665
5.24.16
REGISTERED PROFESSIONAL ENGINEER

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUL 1 2016
FILE # 16-0135
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

REVISIONS:

PROJECT NO.:	15093.01
DATE:	MAY 24, 2016
SCALE:	1"=40'
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:

OVERALL PLAN

DRAWING NO.:

C1.2

SHEET NO. 4 OF 33

MATCHLINE – SEE SHEET C2.2

MATCHLINE – SEE SHEET C2.4

SEE SCHEDULE B SECTION 2 #14

UST #1 GENERATOR

FF=49.5'

CONC. RETAINING WALL

GF=52.2

ASPHALT

ANOPY

FF=52.2'

HEATING OIL UST

LAWN

LS

GATE ARM

ASPHALT BERM

SLOW

FF=52.2'

GF=51

GF=51.

RCB RIM=51.28 INV=46.6'

TIP LAWN

UP 18-1

DESIGNATED FUELING AREA. KEEP SPILL KIT WITHIN FUELING VEHICLE.

51x43

STOP

LOD

EHH

48x36

48x40

48x37

48x42

48x44

49x41

49x48

49x46

50x61

50x51

51x40

51x5

50x40

50x69

50x38

52x38

EDGE OF PAVEMENT

S65°44'46"E 617.97'

DMH RIM= 50.59' INV=36.5'

ASSESSORS PLAT 50 LOT 729
N/F DUPONT REALTY ASSOCIATES, LLC
LAND EVIDENCE 9178 PAGE 49

Δ=57°22'54"
R=100.00'
L=100.15'
CH DIR=S04°05'31"E
CH DIST=96.02'

CONSTRUCTION ENTRANCE, SEE DETAIL

DMH W/DI DI=50.61' RIM=51.36' INV=47.8'

DMH RIM=50.88' INV=43.5'

S24°35'56"W 373.2'

PROVIDE BELOW GRADE CONCRETE WASHOUT AREA

CFS TYP.

DMH RIM=51.90' INV(SE)=45.15' INV(W)=44.9'

12" CI DUPONT DRIVE GRANITE CURB

PUBLIC– WIDTH 60'

SMH RIM=50.93' INV=39.4'

SMH RIM=50.22' INV=39.6'

SMH RIM=49.63' INV=39.8'

CONC. SIDEWALK

GRANITE CURB

36" RCP

12" SEWER

42" RCP

CONC. SIDEW

SMH RIM=52.52' INV=42.9' DROP INV=39.1'

SMH RIM=52.38' INV=43.0'

DMH RIM=52.37' INV=44.8'

ECB

DMH RIM=51.45' INV=43.7'

DMH W/DI DI=50.62' RIM=51.21'

1071.12' MEASURED
1071.00' PLAT

DMH DI=49.19' RIM= 49.85'

DMH W/DI DI=49.35' RIM= 49.92'

DMH W/CB CB=49.30' RIM=49.71'

DMH W/DI DI=49.19' RIM= 49.85' INV=46.3'

DMH W/DI DI=49.21' RIM=49.94' INV=46.3'

GATE

CV

NOTES:

1. THE EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE PLANS ARE INTENDED TO REPRESENT THE MINIMUM CONTROLS NECESSARY TO MEET ANTICIPATED SITE CONDITIONS. ADDITIONAL MEASURES SHALL BE IMPLEMENTED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
2. CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN SILT SACKS IN ALL EXISTING AND NEWLY INSTALLED CATCH BASINS UNTIL THE UPSTREAM AREA IS STABILIZED.
3. CONTRACTOR SHALL INSTALL AND MAINTAIN CONSTRUCTION ENTRANCES AT ALL POINTS OF EGRESS FROM THE SITE THROUGHOUT CONSTRUCTION.
4. THE CONTRACTOR SHALL MAINTAIN EROSION CONTROLS THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL REPLACE DAMAGED EROSION CONTROLS AT THE OWNER AND ENGINEER'S REQUEST AT NO ADDITIONAL EXPENSE TO THE OWNER.
5. THE CONTRACTOR SHALL NOT LEAVE DISTURBED AREAS UNSTABILIZED FOR PERIODS MORE THAN 14 DAYS. PROVIDE TEMPORARY SEED OR MULCH ON DISTURBED AREAS THAT WILL REMAIN EXPOSED FOR GREATER THAN 14 DAYS.
6. INSTALL EROSION CONTROLS DOWNSTREAM OF ANY DISTURBED AREAS TO REDUCE POTENTIAL FOR EROSION. CONTRACTOR SHALL INDICATE LOCATIONS OF EROSION CONTROLS FOR REVIEW WITH GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WORK.

LEGEND

TDS – TEMPORARY DIVERSION SWALE/BERM

TST – TEMPORARY SEDIMENT TRAP

Scale: 1"=20'
0 10' 20' 40'

PARE
PARE CORPORATION
ENGINEERS · SCIENTISTS · PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

OWNER/APPLICANT:

PROVIDENCE WATER
125 DUPONT DRIVE
PROVIDENCE, RI
(401) 521-6300

Providence Water - Operations Facility

125 Dupont Drive
Providence, Rhode Island

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER
DATED JUL 1 2016
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE ON CONSTRUCTION SITE
DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:

PROJECT NO.:	15093.01
DATE:	MAY 24, 2016
SCALE:	1"=20'
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:

EROSION & SEDIMENT CONTROL PLAN 1

DRAWING NO.: C2.1

SHEET NO. 5 OF 33

NOTES:

1. THE EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE PLANS ARE INTENDED TO REPRESENT THE MINIMUM CONTROLS NECESSARY TO MEET ANTICIPATED SITE CONDITIONS. ADDITIONAL MEASURES SHALL BE IMPLEMENTED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
2. CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN SILT SACKS IN ALL EXISTING AND NEWLY INSTALLED CATCH BASINS UNTIL THE UPSTREAM AREA IS STABILIZED.
3. CONTRACTOR SHALL INSTALL AND MAINTAIN CONSTRUCTION ENTRANCES AT ALL POINTS OF EGRESS FROM THE SITE THROUGHOUT CONSTRUCTION.
4. THE CONTRACTOR SHALL MAINTAIN EROSION CONTROLS THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL REPLACE DAMAGED EROSION CONTROLS AT THE OWNER AND ENGINEER'S REQUEST AT NO ADDITIONAL EXPENSE TO THE OWNER.
5. THE CONTRACTOR SHALL NOT LEAVE DISTURBED AREAS UNSTABILIZED FOR PERIODS MORE THAN 14 DAYS. PROVIDE TEMPORARY SEED OR MULCH ON DISTURBED AREAS THAT WILL REMAIN EXPOSED FOR GREATER THAN 14 DAYS.
6. INSTALL EROSION CONTROLS DOWNSTREAM OF ANY DISTURBED AREAS TO REDUCE POTENTIAL FOR EROSION. CONTRACTOR SHALL INDICATE LOCATIONS OF EROSION CONTROLS FOR REVIEW WITH GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WORK.

MASHAPAUG POND
RIDEM POND
SEE SCHEDULE B SECTION 2 #19

STORM WATER CONVEYANCE STRUCTURES
18" STL INV=38.3'
42" RCP INV=36.5'
CONCRETE SWALE
ASPHALT SWALE
SCRUB BRUSH
EDGE OF PAVEMENT
ASPHALT
N24°34'15"E 627.69'
EDGE OF POND
FORESTED WETLAND
PERIMETER WETLAND
50'
SEE SCHEDULE B SECTION 2 #8, #10, #14
WOODED AREA
PROVIDE TEMPORARY FENCING AROUND SAND FILTER. AT NO TIME SHALL ANY CONSTRUCTION MATERIAL OR EQUIPMENT BE STORED IN THE SAND FILTER FOOTPRINT. AVOID THE USE OF HEAVY MACHINERY WITHIN FOOTPRINT TO MINIMIZE POTENTIAL FOR COMPACTING EXISTING SOILS.
CFS TYP.
RS
LOD
SAND FILTER 44x32
SEDIMENT FOREBAY
TST
SM
TP-3
TP-4
TP-5
TP-6
43x34
43x32
43x30
43x70
43x66
ZONE "A"
ZONE "X"
SEE NOTE #1
SEE SCHEDULE B SECTION 2 #14
617.97'
S65°14'46"E
STOP
TEMPORARY STOCKPILE AREA
MATCHLINE - SEE SHEET C2.3
MATCHLINE - SEE SHEET C2.1
ASPHALT BERM
RAISED ASPHALT ISLANDS
GRAVEL
FF=52.2'
RAMP
UST # 1
GENERATOR
ASSESSORS PLAT 50 LOT 724
47x58
47x47
48x40
48x37
EHH
Scale: 1"=20'
0 10 20 40

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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APPROVED WITH CONDITIONS
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DAVID L. POTTER
No. 8665
5.24.16
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:

PROJECT NO.:	15093.01
DATE:	MAY 24, 2016
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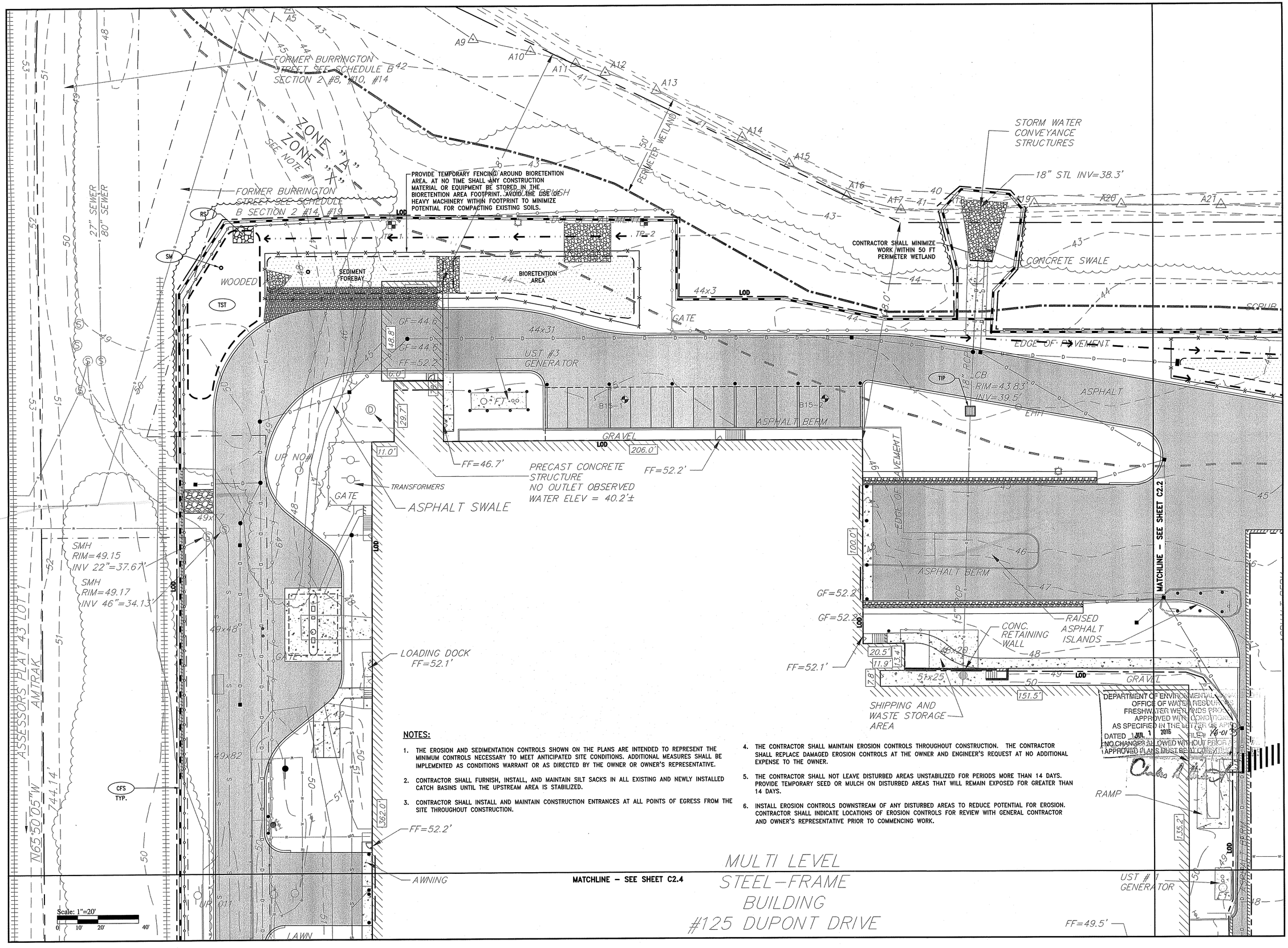
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
EROSION & SEDIMENT CONTROL PLAN 2

DRAWING NO.:
C2.2

SHEET NO. 6 OF 33



NOTES:

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DATED JUL 1 2016 FILE # 16-01 3
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DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:

EROSION & SEDIMENT CONTROL PLAN 3

DRAWING NO.: C2.3

SHEET NO. 7 OF 33

MATCHLINE – SEE SHEET C2.3

MULTI LEVEL
STEEL–FRAME
BUILDING
#125 DUPONT DRIVE

MATCHLINE – SEE SHEET C2.1

FF=52.2'
AWNING
LAWN
FORMER BURRINGTON STREET
SEE SCHEDULE B SECTION 2 #7, #8, #10, #14, #18
APPROXIMATE LOCATION OF ABANDONED RAIL LINE
SEE SCHEDULE B SECTION 2 #12, #13
WOODED AREA
50x52
50x69
BRICK MANHOLE
NO OUTLET
OBSERVED
159.9'
127.1'
ATRIUM
FORMER ALCOHOL UST
51X97
51X59
51x72
51x46
ASPHALT
ASPHALT BERM
CONC. BLK BUILDING TRANSFORMERS
27.4'
35.3'
GATE
TIP
RCB
RIM=51.2'±
INV (W)=46.2'±
INV (E)=45.0'±
RIM=50.81'
INV (N)=42.0'
INV (S)=42.8'
UST # 2 GENERATOR
24" RCP
12" RCP
12" PVC
115.3'
111.8'
166.8'
135.8'
LS
LAWN
CONC. RETAINING WALL
52x36
EDGE OF PAVEMENT
S24°36'35"W
587.51'
24" SEWER
ASPHALT
GATE
SMH
RIM=52.20'
INV=38.5'
SMH
RIM=53.45'
INV=38.7'
SEE SCHEDULE B SEC
36" CL
18" SEWER
34" SEWER
UP 9009
UP 18–1
UST # 1 GENERATOR
FF=49.5'
39.6'
CONC. RETAINING WALL
48x17
GF=52.2'
CANOPY
FF=52.2'
105.6'
HEATING OIL UST
FF=52.2'
135.2'
20.2'
GF=51.
29.3'
GF=51.
RCB
RIM=51.28
INV=46.6'
51x40
TIP
DMH
RIM=51.90'
INV(SE)=45.15'
INV(W)=44.9'
PROVIDE BELOW GRADE CONCRETE WASHOUT AREA
CFS TYP.
STOP
VAN
12" PVC
SEE SHEET C2.1

NOTES:

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Scale: 1"=20'
0 10' 20' 40'

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LINCOLN, RI 02865
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DAVID L. POTTER
No. 8665
5.24.16
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:

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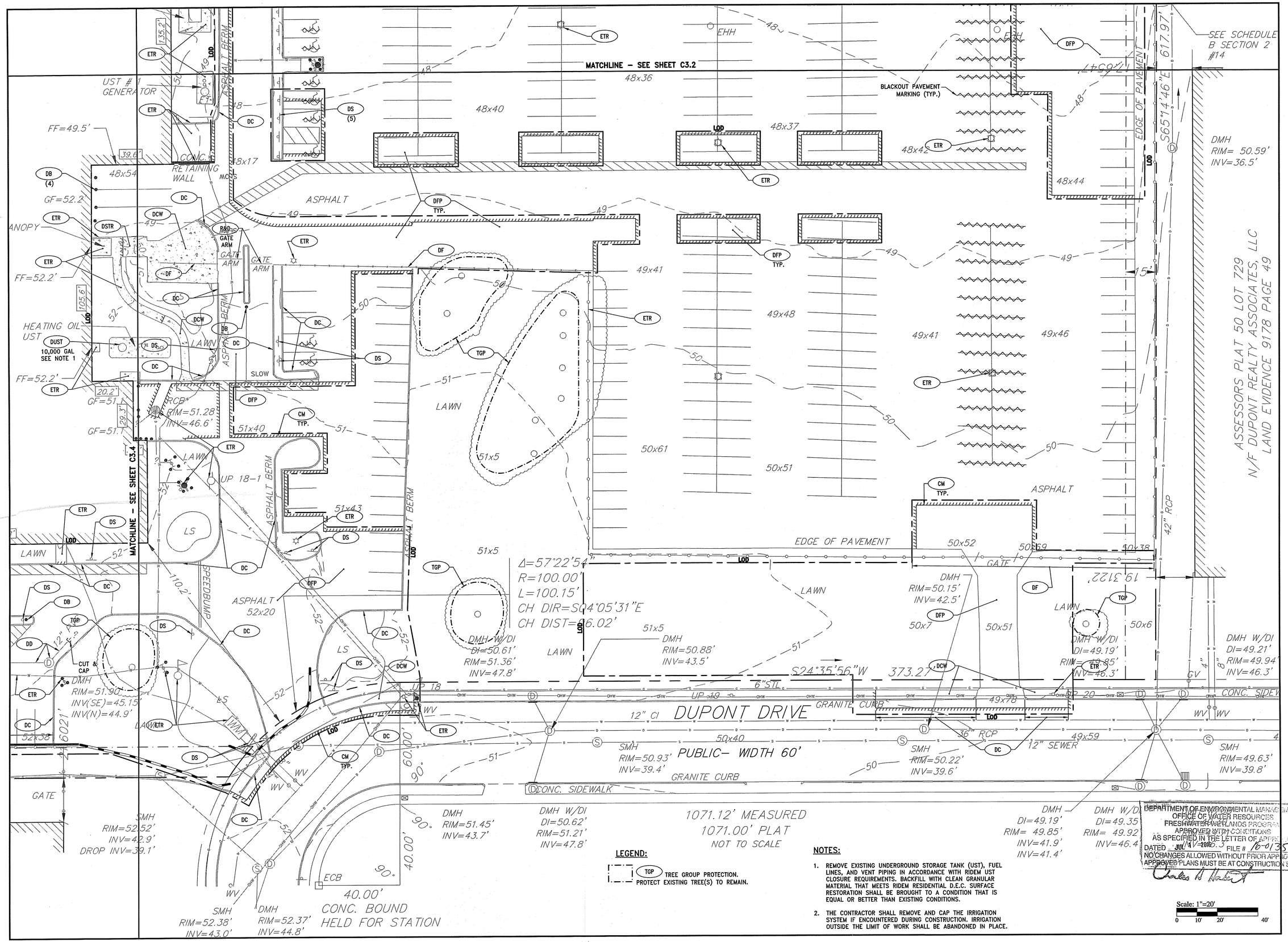
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:

EROSION & SEDIMENT CONTROL PLAN 4

DRAWING NO.: C2.4

SHEET NO. 8 OF 33



LEGEND:

TGP — TREE GROUP PROTECTION. PROTECT EXISTING TREE(S) TO REMAIN.

NOTES:

1. REMOVE EXISTING UNDERGROUND STORAGE TANK (UST), FUEL LINES, AND VENT PIPING IN ACCORDANCE WITH RIDEM UST CLOSURE REQUIREMENTS. BACKFILL WITH CLEAN GRANULAR MATERIAL THAT MEETS RIDEM RESIDENTIAL D.E.C. SURFACE RESTORATION SHALL BE BROUGHT TO A CONDITION THAT IS EQUAL OR BETTER THAN EXISTING CONDITIONS.
2. THE CONTRACTOR SHALL REMOVE AND CAP THE IRRIGATION SYSTEM IF ENCOUNTERED DURING CONSTRUCTION. IRRIGATION OUTSIDE THE LIMIT OF WORK SHALL BE ABANDONED IN PLACE.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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Scale: 1"=20'
0 10' 20' 40'

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OWNER/APPLICANT:

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(401) 521-6300

Providence Water - Operations Facility

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Providence, Rhode Island

DAVID L. POTTER
No. 8665
5.24.16
REGISTERED PROFESSIONAL ENGINEER (C/V/L)

REVISIONS:

PROJECT NO.:	15093.01
DATE:	MAY 24, 2016
SCALE:	1"=20'
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:

DEMOLITION PLAN 1

DRAWING NO.: C3.1

SHEET NO. 9 OF 33

MASHAPAUG POND
RIDEM POND
SEE SCHEDULE B SECTION 2 #19

NOTES:

1. REMOVE EXISTING UNDERGROUND STORAGE TANK (UST), FUEL LINES, AND VENT PIPING IN ACCORDANCE WITH RIDEM UST CLOSURE REQUIREMENTS. BACKFILL WITH CLEAN GRANULAR MATERIAL THAT MEETS RIDEM RESIDENTIAL D.E.C. SURFACE RESTORATION SHALL BE BROUGHT TO A CONDITION THAT IS EQUAL OR BETTER THAN EXISTING CONDITIONS.
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3. IMPROVEMENTS WILL BE CONSTRUCTED BY GROUNDWORK PROVIDENCE WITH FUNDING RECEIVED FROM THE RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT WATER RESOURCES DIVISION TO ENGAGE PROPERTY OWNERS IN THE HUNTINGTON BUSINESS PARK IN THE CREATION OF GREEN INFRASTRUCTURE PROJECTS THAT WOULD DIVERT POLLUTED STORMWATER FROM GOING INTO NEARBY MASHAPAUG POND AND ADD MUCH NEEDED SHADE AND COOLING GREEN SPACE TO THE OTHERWISE HOT, PAVED LANDSCAPE OF THE BUSINESS PARK.

TORM WATER
ONVEYANCE
TRUCTURES

18" STL INV=38.3'

STORM WATER CONVEYANCE STRUCTURES

42" RCP INV=36.5'

A20 A21 A22 A23 A24 A25 A26 A27 A28 A29 A30 A31 A32 A33 A34 A35 A36 A37

N24°34'15"E 627.69'

EDGE OF POND

CONCRETE SWALE

ASPHALT SWALE

SCRUB BRUSH

PERIMETER WETLAND 50' 30'

FORESTED WETLAND

SEE SCHEDULE B SECTION 2 #8, #10, #14

WOODED AREA

ETR

LOD

TP-3 TP-4 TP-5 TP-6

GATE

EDGE OF PAVEMENT

ASPHALT

44x32 43x34 43x32 43x53 43x70 43x66

EHH

DFP

DLP

ZONE "A"
ZONE "X"
SEE NOTE #1

MATCHLINE – SEE SHEET C3.3

CM TYP.

DC DS (6) DB

ASPHALT BERM

RAISED ASPHALT ISLANDS

WORK WITHIN THIS AREA SHALL BE CONSTRUCTED BY GROUNDWORK PROVIDENCE. SEE NOTE 3.

DFP TYP.

GRAVEL

FF=52.2'

RAMP

135.2'

DS (9)

ASSESSORS PLAT 50 LOT 724

47x58 47x47

SEE SCHEDULE B SECTION 2 #14

UST #1 GENERATOR

FF=49.5'

BLACKOUT PAVEMENT MARKING (TYP.)

MATCHLINE – SEE SHEET C3.1

48x40 48x37

617.97' S14°46'E

Scale: 1"=20'
0 10' 20' 40'

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No. 8665
5.24.16
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:

DEMOLITION PLAN 2

DRAWING NO.:

C3.2

SHEET NO. 10 OF 33

NOTES:

1. REMOVE EXISTING UNDERGROUND STORAGE TANK (UST), FUEL LINES, AND VENT PIPING IN ACCORDANCE WITH RIDEM UST CLOSURE REQUIREMENTS. BACKFILL WITH CLEAN GRANULAR MATERIAL THAT MEETS RIDEM RESIDENTIAL D.E.C. SURFACE RESTORATION SHALL BE BROUGHT TO A CONDITION THAT IS EQUAL OR BETTER THAN EXISTING CONDITIONS.
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FORMER BURRINGTON STREET SEE SCHEDULE B SECTION 2 #8, #10, #14

ZONE "A"

ZONE "A"

SEE NOTE #1

30'

50'

PERIMETER WETLAND

FORMER BURRINGTON STREET SEE SCHEDULE B SECTION 2 #14, #19

27" SEWER

80" SEWER

SCRUB BRUSH

EDGE OF PAVEMENT

TP-1

TP-2

LOD

ETR

WOODED AREA

DFP

R&D BUILDING, REFER TO ARCHITECTURAL DRAWINGS

30.0'

GF=44.6

GF=44.6

GF=44.6

FF=52.2

48.8'

6.0'

8.6'

44x31

44x3

GATE

STORM WATER CONVEYANCE STRUCTURES

18" STL INV=38.3'

R&D CONCRETE SWALE

CONCRETE SWALE

R&R FENCE

EDGE OF PAVEMENT

SCRUB

DF

R&D RAILROAD TRACKS

UST #3 GENERATOR

DUST

5,000 GAL SEE NOTE 1

DD

DC

B15-1

B15-2

ETR

GRAVEL

ASPHALT BERM

ASPHALT

CB

18" RCP

RIM=43.83'

INV=39.5'

EHH

29.7'

11.0'

206.0'

UP NO#

FF=46.7'

R&D GRAVEL

PRECAST CONCRETE STRUCTURE NO OUTLET OBSERVED WATER ELEV = 40.2'±

FF=52.2'

TRANSFORMERS

GATE

ASPHALT SWALE

DLP

EDGE OF PAVEMENT

100.0'

ASPHALT BERM

DB

DF

DCW

15" RCP

GF=52.2'

GF=52.2'

CONC. RETAINING WALL

RAISED ASPHALT ISLANDS

48x20

20.5'

11.9'

13.4'

7.8'

FF=52.1'

51x25

GRAVEL

151.5'

SHIPPING AND WASTE STORAGE AREA

SMH
RIM=49.15
INV 22"=37.67'

SMH
RIM=49.17
INV 46"=34.13'

49x17

49x48

49x82

CM TYP.

GATE

LOADING DOCK
FF=52.1'

DSTR

DCP

362.0'

FF=52.2'

AWNING

LAWN

DUP

ASSESSORS PLAT 43 LOT 1
AMTRAK

N65°50'05"W
744.14'

Scale: 1"=20'
0 10' 20' 40'

MATCHLINE - SEE SHEET C3.4

MATCHLINE - SEE SHEET C3.2

MULTI LEVEL
STEEL-FRAME
BUILDING
#125 DUPONT DRIVE

UST #1
GENERATOR

FF=49.5'

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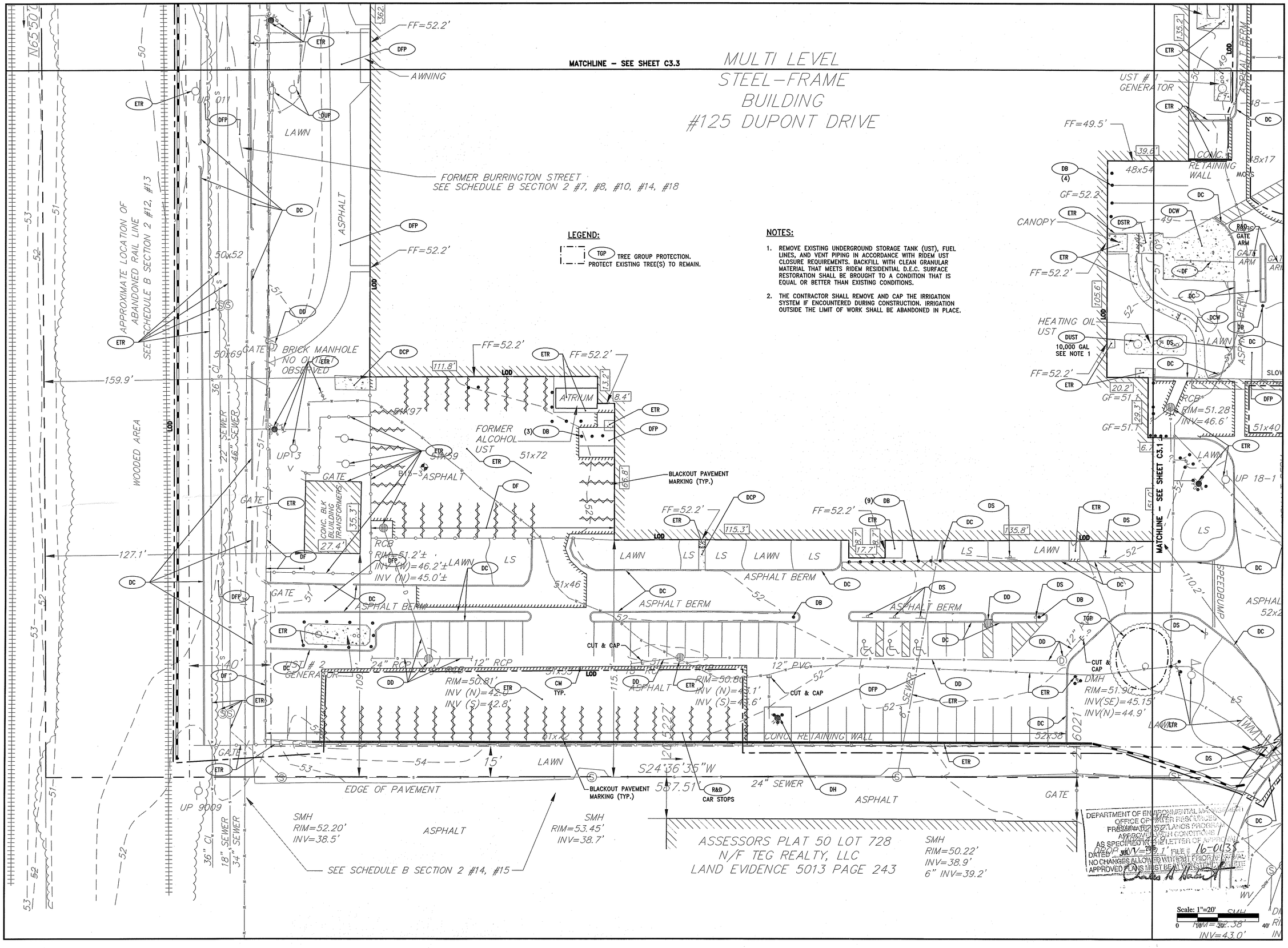
DRAWING TITLE:

DEMOLITION PLAN 3

DRAWING NO.:

C3.3

SHEET NO. 11 OF 33



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DRAWING TITLE:

DEMOLITION PLAN 4

DRAWING NO.:

C3.4

SHEET NO. 12 OF 33

MATCHLINE – SEE SHEET C4.2

MATCHLINE – SEE SHEET C4.4

UST # 1 GENERATOR

FF=49.5'

TYPICAL SECTION AT ENTRYWAY, REFER TO STRUCTURAL DRAWINGS

CONCRETE STAIR, CANOPY, AND ENTRANCE, REFER TO ARCHITECTURAL DRAWINGS

RETAINING WALL

DECORATIVE FENCE

5' WIDE DECORATIVE GATE

BICYCLE RACK, REFER TO LANDSCAPE DRAWINGS

SIGN, "MOTORCYCLE PARKING"

HEATING OIL UST

FF=52.2'

GF=51.7'

CONC. TRAINING WALL

ASPHALT

24' WIDE DECORATIVE FENCE SLIDING GATE

SIGN, "MOTORCYCLE PARKING" (4)

RCP 28" INV=46.6'

LAWN

UP 18-1

ASPHALT BERM

LS

SMH RIM=51.90' INV(SE)=45.15' INV(W)=44.9'

SMH RIM=52.52' INV=42.9' DROP INV=39.1'

SMH RIM=52.38' INV=43.0'

DMH RIM=52.37' INV=44.8'

DMH RIM=51.45' INV=43.7'

DMH W/DI DI=50.62' RIM=51.21' INV=47.8'

DMH W/DI DI=50.61' RIM=51.36' INV=47.8'

DMH RIM=50.88' INV=43.5'

DMH W/DI DI=49.19' RIM=49.85' INV=41.9'

DMH W/DI DI=49.35' RIM=49.92' INV=41.4'

DMH W/DI DI=49.21' RIM=49.94' INV=46.3'

DMH RIM=50.59' INV=36.5'

DUMPSTER (TYP.)

CANOPY, REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS

SCHEDULE SECTION 2 #14

EDGE OF PAVEMENT

ASPHALT TURNDOWN, SEE DETAIL

SIGN ↑ TRUCKS/DELIVERIES ← ALL OTHER TRAFFIC

Δ=57°22'54"
R=100.00'
L=100.15'
CH DIR=S04°05'31"E
CH DIST=96.02'

S24°35'56"W 373.2'

S65°14'46"E 61.97'

DUPONT DRIVE

PUBLIC– WIDTH 60'

GRANITE CURB

CONC. SIDEWALK

12" CI

36" RCP

42" RCP

12" SEWER

6" STL

4" GV

8" WV

CONNECT TO EXISTING FENCE

NEW 8'x12' PREFABRICATED GUARD SHACK ON CONCRETE PAD DEDUCT ALTERNATE

SIGN ↑ VISITORS ← BILLING

1071.12' MEASURED
1071.00' PLAT

NOT TO SCALE

ASSESSORS PLAT 50 LOT 729
N/F DUPONT REALTY ASSOCIATES, LLC
LAND EVIDENCE 9178 PAGE 49

NOTES:

1. CONTRACTOR SHALL PROVIDE LOAM AND SEED ON ALL DISTURBED AREAS. REFER TO LANDSCAPE DRAWINGS.
2. ALL ACCESSIBLE RAMPS SHALL BE CONSTRUCTED WITH DETECTABLE WARNING PAVERS.
3. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL EMPLOY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF RHODE ISLAND TO ESTABLISH CONTROL ON THE SITE AND TO PERFORM FIELD MEASUREMENTS AS REQUIRED TO LAYOUT THE PROPOSED BUILDING AND SITE IMPROVEMENTS. THE CONTRACTOR'S SURVEYOR SHALL COORDINATE THE BUILDING LAYOUT WITH THE PROJECT LAND SURVEYOR TO ACCURATELY LOCATE THE BUILDING ON THE SITE.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS
APPROVED AS SPECIFIED IN 49.71
DATED JUL 1 2016
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION

Scale: 1"=20'
0 10' 20' 40'

PARE
PARE CORPORATION
ENGINEERS · SCIENTISTS · PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

OWNER/APPLICANT:

PROVIDENCE WATER
125 DUPONT DRIVE
PROVIDENCE, RI
(401) 521-6300

Providence Water - Operations Facility

125 Dupont Drive
Providence, Rhode Island

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:

PROJECT NO.:	15093.01
DATE:	MAY 24, 2016
SCALE:	1"=20'
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:

GENERAL PLAN 1

DRAWING NO.: C4.1

SHEET NO. 13 OF 33

MASHAPAUG POND
RIDEM POND
SEE SCHEDULE B SECTION 2 #19

STORM WATER CONVEYANCE STRUCTURES

18" STL INV=38.3'

42" RCP INV=36.5'

A20 A21 A22 A23 A24 A25 A26 EDGE OF POND A33 A34 A35 A36 A37

N24°34'15"E 627.69'

OWNER WILL MAINTAIN VEGETATION OVER DRAIN PIPE

CONCRETE SWALE

50' PERIMETER WETLAND

OWNER WILL MAINTAIN VEGETATION WITHIN 10' FROM FENCE

ASPHALT SWALE

50' PERIMETER WETLAND

30'

FORESTED WETLAND

OWNER WILL MAINTAIN VEGETATION WITHIN 5' FROM FENCE

SEE SCHEDULE B SECTION 2 #8, #10, #14

A27 A28 A29 A30 A31 A32

WOODED AREA

SCRUB BRUSH

10' 10'

LOD

Revised Limit of Disturbance per R.I.D.E.M. See Condition No. 16

EDGE OF PAVEMENT

TP-3 TP-4 TP-5

SAND FILTER

SEDIMENT FOREBAY

LOAM AND SEED SHALL BE COMPLETED BY GROUNDWORK PROVIDENCE. SEE NOTE 4. SUBGRADE PREPARATION AND GRADING SHALL BE COMPLETED BY CONTRACTOR.

ASPHALT

BB

R=13

4W

12'

RR

ZONE "A"
ZONE "X"
SEE NOTE #1

7.1.2

R1-1 STOP

12W

24'

34.3.2

MATCHLINE - SEE SHEET C4.3

RAISED ASPHALT ISLANDS

R=30

CM TYP.

ASPHALT BERM

WORK WITHIN THIS AREA SHALL BE CONSTRUCTED BY GROUNDWORK PROVIDENCE. SEE NOTE 4.

GRAVEL

HCPS (3)

SHP

BC TYP.

BB TYP.

ASPHALT

24' 24'

43.1.0M

CW

FF=52.2'

RAMP

ASSESSORS PLAT 50 LOT 724

JB

ASPHALT TURNDOWN, SEE DETAIL

CP

PRECAST CONCRETE BLOCK BIN STORAGE

CANOPY, REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS SCHEDULE B SECTION 2 #14

40' TYP.

16' TYP.

135.2'

UST #1 GENERATOR

FF=49.5'

MATCHLINE - SEE SHEET C4.1

SIGN, "MOTORCYCLE PARKING" (4)

Scale: 1"=20'
0 10' 20' 40'

NOTES:

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2. ALL ACCESSIBLE RAMPS SHALL BE CONSTRUCTED WITH DETECTABLE WARNING PAVERS.
3. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL EMPLOY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF RHODE ISLAND TO ESTABLISH CONTROL ON THE SITE AND TO PERFORM FIELD MEASUREMENTS AS REQUIRED TO LAYOUT THE PROPOSED BUILDING AND SITE IMPROVEMENTS. THE CONTRACTOR'S SURVEYOR SHALL COORDINATE THE BUILDING LAYOUT WITH THE PROJECT LAND SURVEYOR TO ACCURATELY LOCATE THE BUILDING ON THE SITE.
4. IMPROVEMENTS WILL BE CONSTRUCTED BY GROUNDWORK PROVIDENCE WITH FUNDING RECEIVED FROM THE RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT WATER RESOURCES DIVISION TO ENGAGE PROPERTY OWNERS IN THE HUNTINGTON BUSINESS PARK IN THE CREATION OF GREEN INFRASTRUCTURE PROJECTS THAT WOULD DIVERT POLLUTED STORMWATER FROM GOING INTO NEARBY MASHAPAUG POND AND ADD MUCH NEEDED SHADE AND COOLING GREEN SPACE TO THE OTHERWISE HOT, PAVED LANDSCAPE OF THE BUSINESS PARK.

PARE
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OWNER/APPLICANT:

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125 DUPONT DRIVE
PROVIDENCE, RI
(401) 521-6300

Providence Water - Operations Facility

125 Dupont Drive
Providence, Rhode Island

DAVID L. POTTER
No. 8665
5.24.16
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER
DATED JUL 1 2016 FILE # 16-0135
NO CHANGES ALLOWED WITHOUT PRIOR
APPROVED PLANS MUST BE AT CONSTRUCTION

REVISIONS:

PROJECT NO.:	15093.01
DATE:	MAY 24, 2016
SCALE:	1"=20'
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP
DRAWING TITLE:	GENERAL PLAN 2
DRAWING NO.:	C4.2
SHEET NO.	14 OF 33

NOTES:

1. CONTRACTOR SHALL PROVIDE LOAM AND SEED ON ALL DISTURBED AREAS. REFER TO LANDSCAPE DRAWINGS.
2. ALL ACCESSIBLE RAMPS SHALL BE CONSTRUCTED WITH DETECTABLE WARNING PAVERS.
3. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL EMPLOY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF RHODE ISLAND TO ESTABLISH CONTROL ON THE SITE AND TO PERFORM FIELD MEASUREMENTS AS REQUIRED TO LAYOUT THE PROPOSED BUILDING AND SITE IMPROVEMENTS. THE CONTRACTOR'S SURVEYOR SHALL COORDINATE THE BUILDING LAYOUT WITH THE PROJECT LAND SURVEYOR TO ACCURATELY LOCATE THE BUILDING ON THE SITE.

FORMER BURRINGTON STREET SEE SCHEDULE B SECTION 2 #8, #10, #14

ZONE "A" ZONE "X" SEE NOTE #1

FORMER BURRINGTON STREET SEE SCHEDULE B SECTION 2 #14, #19

50' 27" SEWER 80" SEWER

30' 30' 123.8' 50' PERIMETER WETLAND

SCRUB BRUSH

LOD

CONNECT TO EXISTING FENCE

TP-1 TP-2

EDGE OF GRAVEL

10'

OWNER WILL MAINTAIN VEGETATION WITHIN 10' FROM FENCE

OWNER WILL MAINTAIN VEGETATION OVER DRAIN PIPE

STORM WATER CONVEYANCE STRUCTURES

18" STL INV=38.3'

CONCRETE SWALE

Revised Limit of Disturbance per R.I.D.E.M. See Condition No. 16.

50' PERIMETER WETLAND

SCRUB

WOODED AREA

SEDIMENT FOREBAY

BIORETENTION AREA

CLF

RR

GF=44.6

GF=44.0

FF=52.2'

45.8'

50'

6.0'

GATE

EDGE OF PAVEMENT

UST #3 GENERATOR

(6) BOL

BB

4W TYP.

10'

25'

24" RCP

CB RIM=43.83' INV=39.5'

EHH

ASPHALT

R=50

5'

43.1.0M

29.7'

B15-1

15

B15-2

20'

ASPHALT BERM

GRAVEL

LOD

206.0'

11.0'

24'

UP NO#

FF=46.7'

CANOPY, REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS

PRECAST CONCRETE STRUCTURE

NO OUTLET OBSERVED

WATER ELEV = 40.2'±

FF=52.2'

SRW

R=13

TRANSFORMER

TYPICAL SECTION AT ENTRYWAY, REFER TO STRUCTURAL DRAWINGS

ASPHALT SWALE

EDGE OF PAVEMENT

7.1.2

34.2.0

34.3.2

7.1.0

(4) BOL

100.0'

57'

MATCHLINE - SEE SHEET C4.2

TYPICAL SECTION AT ENTRYWAY, REFER TO STRUCTURAL DRAWINGS

GF=52.2

GF=52.1

15" RCP

CONC. RETAINING WALL

RAISED ASPHALT ISLANDS

R=30'

CM TYP.

20.5'

11.9'

13.4'

7.8'

FF=52.1'

SHIPPING AND WASTE STORAGE AREA

151.5'

43.1.0M

GRAVEL

12' WIDE SWING GATE

SMH RIM=49.15 INV 22"=37.67'

SMH RIM=49.17 INV 46"=34.13'

CM

BB

28'

14'

CP WITH POSITIVE LIMITING BARRIER

FUELING AREA AND 24'x24' PRE-ENGINEERED CANOPY

36'

14'

GATE

LOADING DOCK FF=52.1'

62'

43.1.0M

ASPHALT TURNDOWN (ALL SIDES), SEE DETAIL

BC TYP.

SEE STRUCTURAL DRAWINGS FOR AST PAD DETAIL

15' MIN.

DUAL 3,000 GALLON (3,000 DIESEL & 3,000 GASOLINE) ABOVE GROUND FUEL TANK (CONVAULT CONCRETE TANK OR APPROVED EQUIVALENT)

UTILITY POLE

BB

BOL (2)

FF=52.2'

ASPHALT TURNDOWN, SEE DETAIL

AWNING

TYPICAL SECTION AT ENTRYWAY, REFER TO STRUCTURAL DRAWINGS

BOL (4)

LAWN

ASSESSORS PLAT 43 LOT 1 AMTRAK

N65°50'05"W 744.14'

Scale: 1"=20'

0 10' 20' 40'

MATCHLINE - SEE SHEET C4.4

MULTI LEVEL STEEL-FRAME BUILDING #125 DUPONT DRIVE

UST #1 GENERATOR

FF=49.5'

FF=52.2'

CW

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED
AS SPECIFIED IN THE RAMP
DATED JUL 1 2016 FILE # 16-0135
NO CHANGES ALLOWED WITHOUT PRIOR APPROVED PLANS MUST BE AT CONSTRUCTION

135.2'

PARE
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

OWNER/APPLICANT:
PROVIDENCE WATER
125 DUPONT DRIVE
PROVIDENCE, RI
(401) 521-6300

Providence Water - Operations Facility

125 Dupont Drive
Providence, Rhode Island

DAVID L. POTTER
No. 8665
5.24.16
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:

PROJECT NO.:	15093.01
DATE:	MAY 24, 2016
SCALE:	1"=20'
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
GENERAL PLAN 3

DRAWING NO.:
C4.3

SHEET NO. 15 OF 33

MATCHLINE – SEE SHEET C4.3

MULTI LEVEL
STEEL–FRAME
BUILDING
#125 DUPONT DRIVE

MATCHLINE – SEE SHEET C4.1

NOTES:

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3. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL EMPLOY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF RHODE ISLAND TO ESTABLISH CONTROL ON THE SITE AND TO PERFORM FIELD MEASUREMENTS AS REQUIRED TO LAYOUT THE PROPOSED BUILDING AND SITE IMPROVEMENTS. THE CONTRACTOR'S SURVEYOR SHALL COORDINATE THE BUILDING LAYOUT WITH THE PROJECT LAND SURVEYOR TO ACCURATELY LOCATE THE BUILDING ON THE SITE.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUL 1 2016 FILE # 16-0135
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Scale: 1"=20'

PARE
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

OWNER/APPLICANT:

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125 DUPONT DRIVE
PROVIDENCE, RI
(401) 521-6300

Providence Water - Operations Facility

125 Dupont Drive
Providence, Rhode Island

DAVID L. POTTER
No. 8665
5.24.16
REGISTERED PROFESSIONAL ENGINEER (C/V/S)

REVISIONS:

PROJECT NO.:	15093.01
DATE:	MAY 24, 2016
SCALE:	1"=20'
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:

GENERAL PLAN 4

DRAWING NO.: C4.4

SHEET NO. 16 OF 33

MATCHLINE – SEE SHEET C5.2

MATCHLINE – SEE SHEET C5.4

UST #1 GENERATOR

FF=49.5'

CONC. RETAINING WALL

ASPHALT

CANOPY

FF=52.2'

GATE ARM

HEATING OIL UST

FF=52.2'

LAWN

ASPHALT BERM

GF=51.7'

RCB RIM=51.28' INV=46.6'

GF=51.7'

LAWN

UP

51x40

51x43

51x5

48x36

48x40

48x37

48x41

49x41

49x48

49x46

50x61

50x51

50x52

50x69

40x38

50x40

52x20

52x35

50x40

49x78

49x59

EHH

EDGE OF PAVEMENT

DMH RIM= 50.59' INV=36.5'

S65°14'6"E 617.97'

SEE SCHEDULE B SECTION 2 #14

ASSESSORS PLAT 50 LOT 729
N/F DUPONT REALTY ASSOCIATES, LLC
LAND EVIDENCE 9178 PAGE 49

Δ=57°22'54"
R=100.00'
L=100.15'
CH DIR=S04°05'31"E
CH DIST=96.02'

DMH W/DI DI=50.61' RIM=51.36' INV=47.8'

DMH RIM=50.88' INV=43.5'

DMH RIM=51.90' INV(SE)=45.15' INV(W)=44.9'

S24°35'56"W 373.27'

DMH W/DI DI=49.19' RIM= 49.85' INV=46.3'

DMH W/DI DI=49.21' RIM=49.94' INV=46.3'

12" PVC

6"STL

UP

GV

8" WM

12" CI

DUPONT DRIVE

PUBLIC– WIDTH 60'

GRANITE CURB

CONC. SIDEWALK

CONC. SIDEW

36" RCP

12" SEWER

42" RCP

SMH RIM=50.93' INV=39.4'

SMH RIM=50.22' INV=39.6'

SMH RIM=49.63' INV=39.8'

SMH RIM=52.52' INV=42.9' DROP INV=39.1'

DMH RIM=51.45' INV=43.7'

DMH W/DI DI=50.62' RIM=51.21' INV=47.8'

DMH DI=49.19' RIM= 49.85' INV=41.9' INV=41.4'

DMH W/DI DI=49.3 RIM= 49.85 INV=40.

1071.12' MEASURED
1071.00' PLAT
NOT TO SCALE

ECB

40.00'

CONC. BOUND HELD FOR STATION

SMH RIM=52.38' INV=43.0'

DMH RIM=52.37' INV=44.8'

GATE

Scale: 1"=20'
0 10' 20' 40'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUL 1 2016 FILE # 16-0135
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE ON CONSTRUCTION SITE

PARE

PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

OWNER/APPLICANT:

PROVIDENCE WATER
125 DUPONT DRIVE
PROVIDENCE, RI
(401) 521-6300

Providence Water - Operations Facility

125 Dupont Drive
Providence, Rhode Island

DAVID L. POTTER
No. 8665
5.24.16
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:

PROJECT NO.:	15093.01
DATE:	MAY 24, 2016
SCALE:	1"=20'
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:

GRADING PLAN 1

DRAWING NO.:

C5.1

SHEET NO. 17 OF 33

MASHAPAUG POND
RIDEM POND
SEE SCHEDULE B SECTION 2 #19

NOTE:

1. IMPROVEMENTS WILL BE CONSTRUCTED BY GROUNDWORK PROVIDENCE WITH FUNDING RECEIVED FROM THE RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT WATER RESOURCES DIVISION TO ENGAGE PROPERTY OWNERS IN THE HUNTINGTON BUSINESS PARK IN THE CREATION OF GREEN INFRASTRUCTURE PROJECTS THAT WOULD DIVERT POLLUTED STORMWATER FROM GOING INTO NEARBY MASHAPAUG POND AND ADD MUCH NEEDED SHADE AND COOLING GREEN SPACE TO THE OTHERWISE HOT, PAVED LANDSCAPE OF THE BUSINESS PARK.

STORM WATER CONVEYANCE STRUCTURES
18" STL INV=38.3'
STORM WATER CONVEYANCE STRUCTURES
42" RCP INV=36.5'
N24°34'15"E 627.69'
CONCRETE SWALE
ASPHALT SWALE
SCRUB BRUSH
EDGE OF PAVEMENT
EDGE OF POND
50' PERIMETER WETLAND
FORESTED WETLAND
SEE SCHEDULE B SECTION 2 #8, #10, #14
WOODED AREA
LOD
GATE
TP-3
TP-4
TP-5
TP-6
SAND FILTER
SEDIMENT FOREBAY
43x34
43x32
43x53
43x70
43x66
ASPHALT
ZONE "A"
ZONE "X"
SEE NOTE #1
MATCHLINE – SEE SHEET C5.3
ASPHALT BERM
WORK WITHIN THIS AREA SHALL BE CONSTRUCTED BY GROUNDWORK PROVIDENCE. SEE NOTE 1.
ASPHALT ISLANDS
GRAVEL
FF=52.2'
RAMP
ASSESSORS PLAT 50 LOT 724
47x58
EHH
SEE SCHEDULE B SECTION 2 #14
617.97'
S65°14'46"E
UST # 1 GENERATOR
MATCHLINE – SEE SHEET C5.1
48x40
48x37
Scale: 1"=20'
0 10 20 40'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUL 1 2016 FILE # 16-0135
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PARE
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

OWNER/APPLICANT:

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125 DUPONT DRIVE
PROVIDENCE, RI
(401) 521-6300

Providence Water - Operations Facility

125 Dupont Drive
Providence, Rhode Island

DAVID L. POTTER
No. 8665
5-24-16
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:

PROJECT NO.:	15093.01
DATE:	MAY 24, 2016
SCALE:	1"=20'
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
GRADING PLAN 2

DRAWING NO.:
C5.2

SHEET NO. 18 OF 33

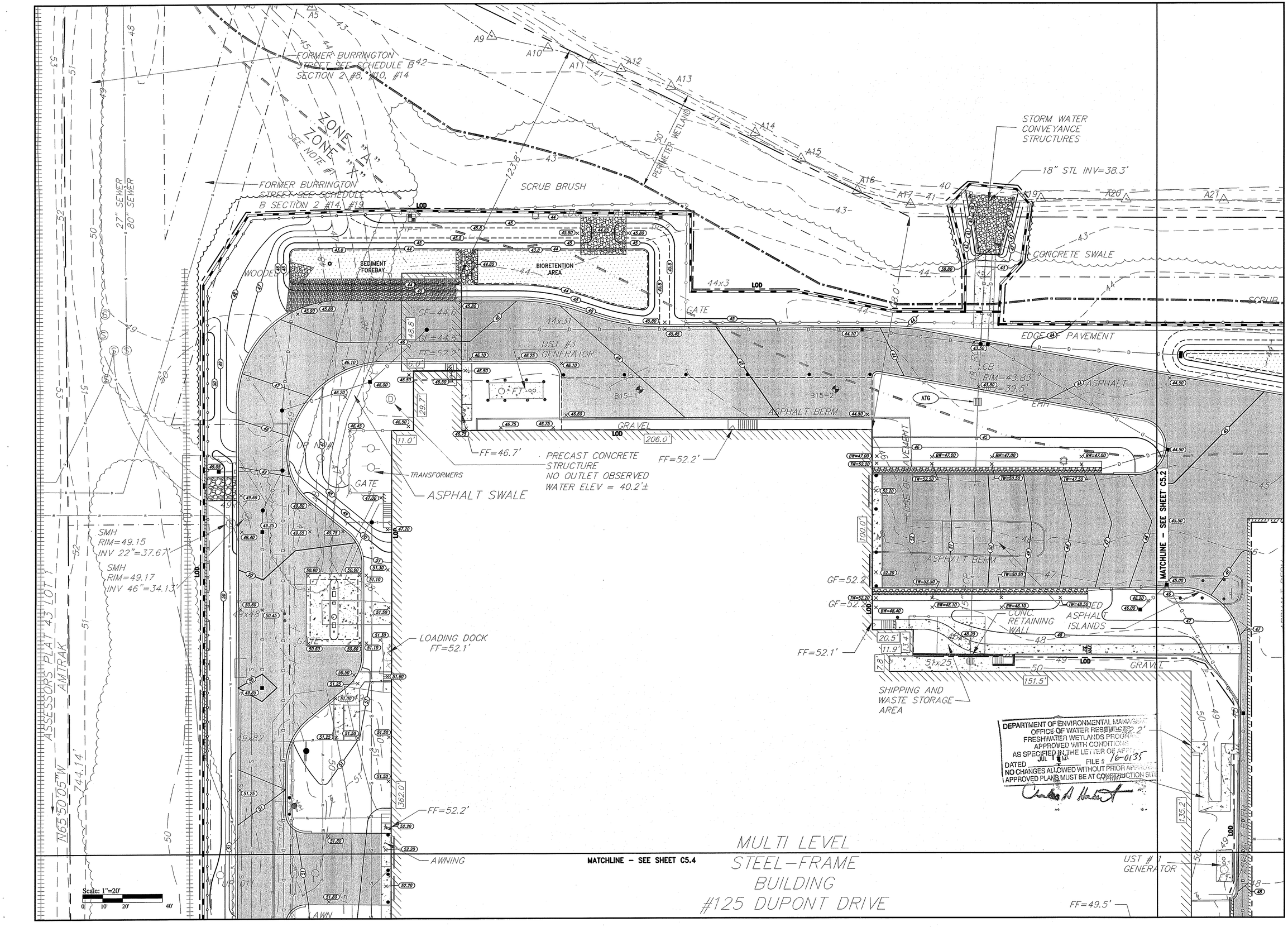
PARE
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

OWNER/APPLICANT:

PROVIDENCE WATER
125 DUPONT DRIVE
PROVIDENCE, RI
(401) 521-6300

Providence Water - Operations Facility

125 Dupont Drive
Providence, Rhode Island



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUL 12 FILE # 16-0135
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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DAVID L. POTTER
No. 8665
5.24.16
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:

PROJECT NO.:	15093.01
DATE:	MAY 24, 2016
SCALE:	1"=20'
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:

GRADING PLAN 3

DRAWING NO.:

C5.3

SHEET NO. 19 OF 33

MATCHLINE – SEE SHEET C5.3

MULTI LEVEL
STEEL–FRAME
BUILDING
#125 DUPONT DRIVE

MATCHLINE – SEE SHEET C5.1

FF=52.2'
AWNING
LAWN
FORMER BURRINGTON STREET
SEE SCHEDULE B SECTION 2 #7, #8, #10, #14, #18
APPROXIMATE LOCATION OF ABANDONED RAIL LINE
SEE SCHEDULE B SECTION 2 #12, #13
WOODED AREA
50x52
50x69
BRICK MANH
NO OUTLET
OBSERVED
159.9'
ATRIUM
FORMER ALCOHOL UST
51X97
51X59
51x72
UP 3
GATE
B15-3
ASPHALT
CONC. BLK BLUILDING TRANSFORMERS
35.3'
27.4'
RCB
RIM=51.2'±
INV (W)=46.2'±
INV (N)=45.0'±
51x46
ASPHALT BERM
UST # 2 GENERATOR
24" RCP
12" RCP
RIM=50.81'
INV (N)=42.0'
INV (S)=42.8'
RIM=50.80'
INV (N)=
INV (S)=
ASPHALT
51x72
LAWN
S24°36'35"W
587.51'
24" SEWER
EDGE OF PAVEMENT
UP 9009
36" CI
18" SEWER
34" SEWER
SMH
RIM=52.20'
INV=38.5'
SMH
RIM=53.45'
INV=38.7'
SEE SCHEDULE B SECTION 2 #14, #15
ASSESSORS PLAT 50 LOT 728
N/F TEG REALTY, LLC
LAND EVIDENCE 5013 PAGE 243
SMH
RIM=50.22'
INV=38.9'
6" INV=39.2'
UST # 1 GENERATOR
FF=49.5'
CONC. RETAINING WALL
48x17
CANOPY
GATE ARM
HEATING OIL UST
20.2'
GF=51
CB
RIM=51.28'
INV=46.6'
51x40
DMH
RIM=51.90'
INV(SE)=45.15'
INV(N)=44.9'
CONC. RETAINING WALL
52x38
12" PVC
6" SEWER
DMH
RIM=51.90'
INV(SE)=45.15'
INV(N)=44.9'
SMH
INV=43.0'
WV
Scale: 1"=20'
0 10' 20' 40'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF
DATED JUL 0 2016 FILE # 16-0135
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PARE
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

OWNER/APPLICANT:
PROVIDENCE WATER
125 DUPONT DRIVE
PROVIDENCE, RI
(401) 521-6300

Providence Water - Operations Facility

125 Dupont Drive
Providence, Rhode Island

DAVID L. POTTER
No. 8665
5.24.16
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:

PROJECT NO.:	15093.01
DATE:	MAY 24, 2016
SCALE:	1"=20'
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
GRADING PLAN 4

DRAWING NO.:
C5.4

SHEET NO. 20 OF 33

MATCHLINE – SEE SHEET C6.2

MATCHLINE – SEE SHEET C6.4

151LF 12" RCP S=0.010

UST #1 GENERATOR

FF=49.5'

39.6'

CONC. RETAINING WALL

GF=52.2

ASPHALT

ANOPY

FF=52.2'

CB-2

GATE ARM

GATE ARM

LS

105.6'

LOD

HEATING OIL UST

LAWN

ASPHALT BERM

68LF 12" HDPE S=0.015

FF=52.2'

20.2'

GF=51.7

RCP

RIM=51.28'

INV=46.6'

CONNECT TO EXISTING DRAIN INV.= 46:60

23.1'

178LF – 12" RCP S=0.010

CB-1

LAWN

LS

ASPHALT

102'

12" PVC

HYD

GV

6" CLDI WATER

8"x8"x6" TAPPING SLEEVE

DMH RIM=51.90' INV(SE)=45.15' INV(W)=44.9'

LAWN

WV

GATE

SMH RIM=52.52' INV=42.9' DROP INV=39.1'

SMH RIM=52.38' INV=43.0'

DMH RIM=52.37' INV=44.8'

CONC. BOUND HELD FOR STATION

ECB

40.00'

90°

60.00'

90°

40.00'

90°

LAWN

ASPHALT BERM

LOD

EHH

EHH

EDGE OF PAVEMENT

Δ=57°22'54"
R=100.00'
L=100.15'
CH DIR=S04°05'31"E
CH DIST=96.02'

DMH W/DI DI=50.61' RIM=51.36' INV=47.8'

DMH RIM=50.88' INV=43.5'

DMH RIM=50.15' INV=42.5'

DMH W/DI DI=49.19' RIM= 49.85' INV=46.3'

DMH W/DI DI=49.21' RIM=49.94' INV=46.3'

S24°35'56"W 373.27'

6" STL

UP 18

UP 19

UP 20

GRANITE CURB

12" CI DUPONT DRIVE

CONC. SIDEWALK

SMH RIM=50.93' INV=39.4'

PUBLIC–

DMH W/DI DI=50.61' RIM=51.21' INV=47.8

DMH RIM=51.45' INV=43.7'

1071.12'

1071.

NOT

GATE

42" RCP

19.312'

S65°14'46"E 617.97'

SEE SCHEDULE B SECTION 2 #14

DMH RIM= 50.59' INV=36.5'

ASSESSORS PLAT 50 LOT 729
N/F DUPONT REALTY ASSOCIATES, LLC
LAND EVIDENCE 9178 PAGE 49

ASPHALT

NOTES:

1. ALL CATCH BASINS AND DRAIN MANHOLES SHALL BE 4' DIA. PRECAST CONCRETE UNLESS NOTED OTHERWISE.
2. ALL DRAIN PIPES SHALL BE SMOOTH INTERIOR CORRUGATED HIGH DENSITY POLYETHYLENE UNLESS NOTED OTHERWISE.
3. REINFORCED CONCRETE PIPE (RCP) SHALL BE CLASS III UNLESS NOTED OTHERWISE.
4. ALL SLOPES PROVIDED ARE FT/FT.
5. ALL CATCH BASINS AND AREA DRAINS SHALL BE INSTALLED WITH A SUMP AND OUTLET TEE PER THE DETAIL.

DRAIN INVERT TABLE

LABEL	RIM (FT)	INV. IN (FT)	INV. OUT (FT)
CB-1	50.75		47.30 SE
CB-2	48.50	45.30 NW 45.50 NW	45.10 SE
CB-3	47.25	43.55 NW	41.75 E
CB-4	45.00	42.00 N 42.50 N 41.30 W	41.20 SE
CB-5	46.00		42.40 S
CB-6	44.50	42.00 N 40.80 NW	40.70 NE
CB-7	43.50	40.10 SW 40.00 SW	40.00 SE
CB-8	44.10	40.75 NE	40.75 SW
CB-9	46.00	42.90 N	42.90 S
CB-10	49.50		45.50 SW
CB-11	49.25	45.65 NW	45.65 SE
CB-12	49.85		46.25 SE
CB-13	50.30	45.55 NW	45.55 SE

DRAIN INVERT TABLE

LABEL	RIM (FT)	INV. IN (FT)	INV. OUT (FT)
CB-14	50.50	46.30 NW	46.30 SE
CB-15	51.10	46.80 SW	46.80 SE
CB-16	50.80	47.25 SW 47.45 E	47.25 NE
CB-17	51.30	48.15 SW 48.15 NW	48.15 NE
CB-18	51.60		48.30 SE
CB-19	51.30	48.55 NW	48.55 NE
CB-20	51.50		48.70 SE
CB-21	43.52	40.50 SW	40.50 NE
DIV-1	47.50	44.15 NW	43.30 S 44.15 SE
DMH-1	43.50	40.25 NE	39.15 SE
DMH-2	45.02	42.55 N	42.55 SW
DMH-3	48.90	44.35 NW 45.30 NE 45.10 NW	44.35 SE
DMH-4	49.50	45.50 NW	45.25 SE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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Scale: 1"=20'
0 10' 20' 40'

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Providence Water • Operations Facility

125 Dupont Drive
Providence, Rhode Island

DAVID L. POTTER
No. 8665
5.24.16
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:

PROJECT NO.:	15093.01
DATE:	MAY 24, 2016
SCALE:	1"=20'
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:

DRAINAGE & UTILITY PLAN 1

DRAWING NO.:

C6.1

SHEET NO. 21 OF 33

MASHAPAUG POND
RIDEM POND
SEE SCHEDULE B SECTION 2 #19

NOTES:

1. ALL CATCH BASINS AND DRAIN MANHOLES SHALL BE 4' DIA. PRECAST CONCRETE UNLESS NOTED OTHERWISE.
2. ALL DRAIN PIPES SHALL BE SMOOTH INTERIOR CORRUGATED HIGH DENSITY POLYETHYLENE UNLESS NOTED OTHERWISE.
3. REINFORCED CONCRETE PIPE (RCP) SHALL BE CLASS III UNLESS NOTED OTHERWISE.
4. ALL SLOPES PROVIDED ARE FT/FT.
5. ALL CATCH BASINS AND AREA DRAINS SHALL BE INSTALLED WITH A SUMP AND OUTLET TEE PER THE DETAIL.

DRAIN INVERT TABLE

LABEL	RIM (FT)	INV. IN (FT)	INV. OUT (FT)
CB-1	50.75		47.30 SE
CB-2	48.50	45.30 NW 45.50 NW	45.10 SE
CB-3	47.25	43.55 NW	41.75 E
CB-4	45.00	42.00 N 42.50 N 41.30 W	41.20 SE
CB-5	46.00		42.40 S
CB-6	44.50	42.00 N 40.80 NW	40.70 NE
CB-7	43.50	40.10 SW 40.00 SW	40.00 SE
CB-8	44.10	40.75 NE	40.75 SW
CB-9	46.00	42.90 N	42.90 S
CB-10	49.50		45.50 SW
CB-11	49.25	45.65 NW	45.65 SE
CB-12	49.85		46.25 SE
CB-13	50.30	45.55 NW	45.55 SE

DRAIN INVERT TABLE

LABEL	RIM (FT)	INV. IN (FT)	INV. OUT (FT)
CB-14	50.50	46.30 NW	46.30 SE
CB-15	51.10	46.80 SW	46.80 SE
CB-16	50.80	47.25 SW 47.45 E	47.25 NE
CB-17	51.30	48.15 SW 48.15 NW	48.15 NE
CB-18	51.60		48.30 SE
CB-19	51.30	48.55 NW	48.55 NE
CB-20	51.50		48.70 SE
CB-21	43.52	40.50 SW	40.50 NE
DIV-1	47.50	44.15 NW	43.30 S 44.15 SE
DMH-1	43.50	40.25 NE	39.15 SE
DMH-2	45.02	42.55 N	42.55 SW
DMH-3	48.90	44.35 NW 45.30 NE 45.10 NW	44.35 SE
DMH-4	49.50	45.50 NW	45.25 SE

STORM WATER CONVEYANCE STRUCTURES

18" STL INV=38.3'

A20 A21 A22 A23 A24 A25 A26 EDGE OF POND

N24°34'15"E 627.69'

CONCRETE SWALE

ASPHALT SWALE

RS

SCRUB BRUSH

SFCD

LOD

A27 A28 A29 A30 A31 A32

50' PERIMETER WETLAND

FORESTED WETLAND

WOODED AREA

SEE SCHEDULE B SECTION 2 #8, #10, #14

GATE

TP-3 TP-4 TP-5

EDGE OF PAVEMENT

96LF - 15" RCP S=0.005

CB-21 (DOUBLE)

SAND FILTER

SEDIMENT FOREBAY

RS

SM

ASPHALT

103LF - 15" HDPE S=0.006

CB-6

CONNECT TO WALL DRAIN

33LF - 6" PVC S=0.029

66LF - 15" HDPE S=0.006

MATCHLINE - SEE SHEET C6.3

39LF - 6" PVC S=0.013

CONNECT TO WALL DRAIN

CB-4

16LF - 12" HDPE S=0.022

CB-5

ASPHALT ISLANDS

ASPHALT BERM

LOD

GRAVEL

136LF - 12" HDPE S=0.006

CB-3

FF=52.2'

RAMP

135.2'

151LF 12" RCP S=0.010

UST #1 GENERATOR

ASPHALT

ASSESSORS PLAT 50 LOT 724

EHH

ZONE "A"

ZONE "X"

SEE NOTE #1

WOODED AREA

TP-6

SEE SCHEDULE B SECTION 2 #14

N65°14'46"E 617.97'

EDGE OF PAVEMENT

MATCHLINE - SEE SHEET C6.1

Scale: 1"=20'

0 10 20 40'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS
APPROVED WITH CONDITIONS
AS SPECIFIED IN ZONE LETTER
DATED JUL 2016 FILE # 16-0135
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401-334-4100

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PROVIDENCE, RI
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Providence Water - Operations Facility
125 Dupont Drive
Providence, Rhode Island

DAVID L. POTTER
No. 8665
5.24.16
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:

PROJECT NO.:	15093.01
DATE:	MAY 24, 2016
SCALE:	1"=20'
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:

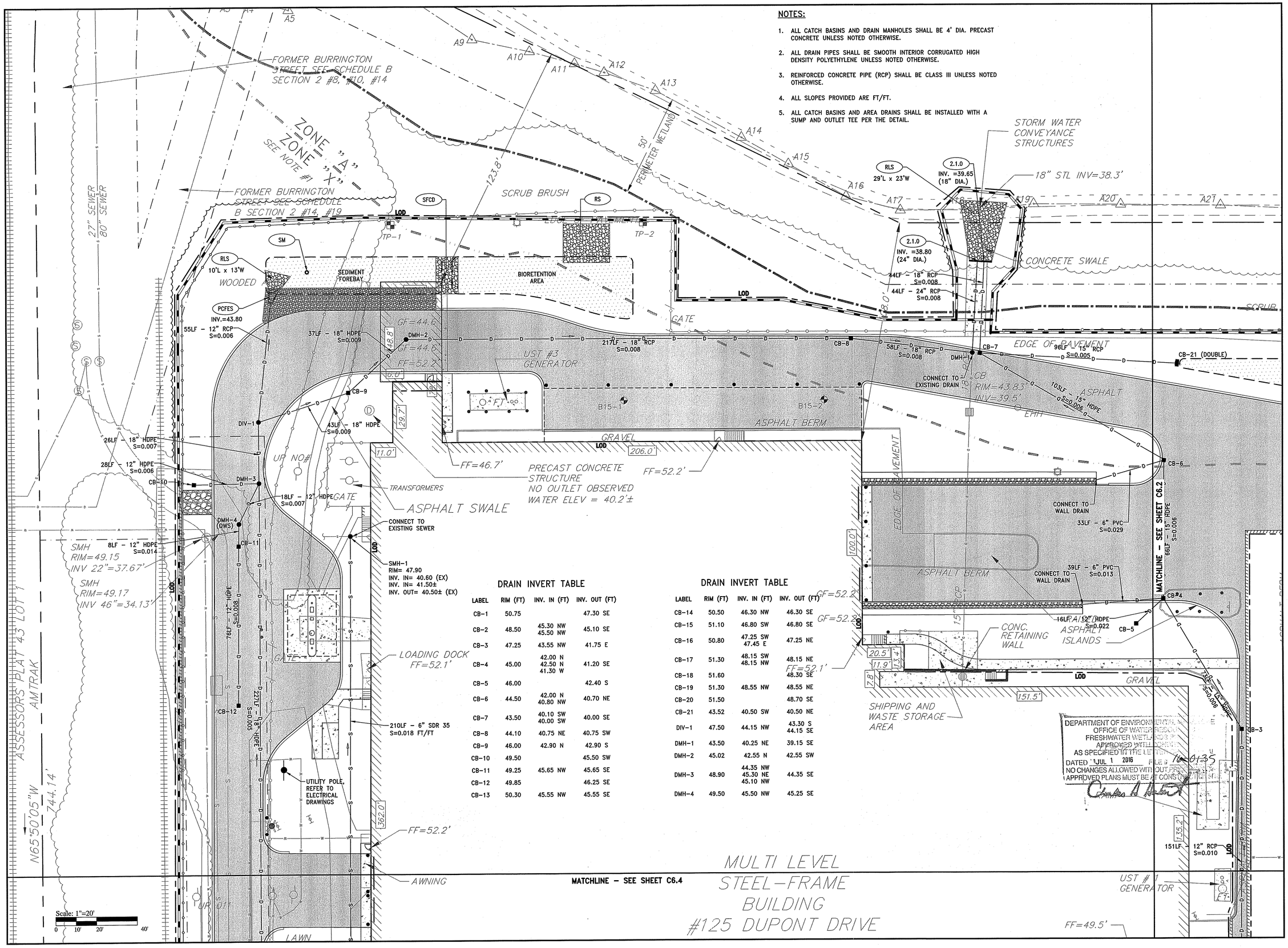
DRAINAGE & UTILITY PLAN 2

DRAWING NO.: C6.2

SHEET NO. 22 OF 33

NOTES:

1. ALL CATCH BASINS AND DRAIN MANHOLES SHALL BE 4' DIA. PRECAST CONCRETE UNLESS NOTED OTHERWISE.
2. ALL DRAIN PIPES SHALL BE SMOOTH INTERIOR CORRUGATED HIGH DENSITY POLYETHYLENE UNLESS NOTED OTHERWISE.
3. REINFORCED CONCRETE PIPE (RCP) SHALL BE CLASS III UNLESS NOTED OTHERWISE.
4. ALL SLOPES PROVIDED ARE FT/FT.
5. ALL CATCH BASINS AND AREA DRAINS SHALL BE INSTALLED WITH A SUMP AND OUTLET TEE PER THE DETAIL.



DRAIN INVERT TABLE

LABEL	RIM (FT)	INV. IN (FT)	INV. OUT (FT)
CB-1	50.75		47.30 SE
CB-2	48.50	45.30 NW 45.50 NW	45.10 SE
CB-3	47.25	43.55 NW	41.75 E
CB-4	45.00	42.00 N 42.50 N 41.30 W	41.20 SE
CB-5	46.00		42.40 S
CB-6	44.50	42.00 N 40.80 NW	40.70 NE
CB-7	43.50	40.10 SW 40.00 SW	40.00 SE
CB-8	44.10	40.75 NE	40.75 SW
CB-9	46.00	42.90 N	42.90 S
CB-10	49.50		45.50 SW
CB-11	49.25	45.65 NW	45.65 SE
CB-12	49.85		46.25 SE
CB-13	50.30	45.55 NW	45.55 SE

DRAIN INVERT TABLE

LABEL	RIM (FT)	INV. IN (FT)	INV. OUT (FT)
CB-14	50.50	46.30 NW	46.30 SE
CB-15	51.10	46.80 SW	46.80 SE
CB-16	50.80	47.25 SW 47.45 E	47.25 NE
CB-17	51.30	48.15 SW 48.15 NW	48.15 NE
CB-18	51.60		48.30 SE
CB-19	51.30	48.55 NW	48.55 NE
CB-20	51.50		48.70 SE
CB-21	43.52	40.50 SW	40.50 NE
DIV-1	47.50	44.15 NW	43.30 S 44.15 SE
DMH-1	43.50	40.25 NE	39.15 SE
DMH-2	45.02	42.55 N	42.55 SW
DMH-3	48.90	44.35 NW 45.30 NE 45.10 NW	44.35 SE
DMH-4	49.50	45.50 NW	45.25 SE

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PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

OWNER/APPLICANT:

PROVIDENCE WATER
125 DUPONT DRIVE
PROVIDENCE, RI
(401) 521-6300

Providence Water - Operations Facility

125 Dupont Drive
Providence, Rhode Island

DAVID L. POTTER
No. 8665
REGISTERED PROFESSIONAL ENGINEER
(CIVIL)
5.24.16

REVISIONS:

PROJECT NO.:	15093.01
DATE:	MAY 24, 2016
SCALE:	1"=20'
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:

DRAINAGE & UTILITY PLAN 3

DRAWING NO.: C6.3

SHEET NO. 23 OF 33

MATCHLINE – SEE SHEET C6.3

MULTI LEVEL
STEEL–FRAME
BUILDING
#125 DUPONT DRIVE

FF=52.2'
AWNING
LAWN
CB-3
GAS/OIL INTERCEPTOR, REFER TO PLUMBING DRAWINGS RIM= 52.10 INV. IN= 45.50 INV. OUT= 45.40
4" PVC VENT, REFER TO PLUMBING DRAWINGS FOR CONTINUATION
SEWER, REFER TO PLUMBING DRAWINGS FOR CONTINUATION
84LF – 6" SDR 35 S=0.020 FT/FT
FORMER BURRINGTON STREET
SEE SCHEDULE B SECTION 2 #7, #8, #10, #14, #15
APPROXIMATE LOCATION OF ABANDONED RAIL LINE
SEE SCHEDULE B SECTION 2 #12, #13
WOODED AREA
ASPHALT
148LF – 18" HDPE S=0.005
LOD
GATE
BRICK MANHOLE NO OUTLET OBSERVED
159.9'
111.8'
CB
RIM= 51.60
INV. OUT= 47.20
ATRIUM
13.2'
8.4'
FORMER ALCOHOL UST
166.8'
CB-14
UP 3
V
GATE
B15-3
ASPHALT
CONC. BLK BUILDING TRANSFORMERS
35.3'
27.4'
22" SEWER
48" SEWER
93LF – 15" HDPE S=0.005
127.1'
RCP
RIM=51.2'±
INV (W)=46.2'±
INV (E)=45.0'±
LAWN
LS
GATE
ASPHALT BERM
66LF – 12" RCP S=0.008
CB-15
81LF – 15" RCP S=0.005
CB-16
122LF – 12" RCP S=0.005
48LF – 12" RCP S=0.005
UST # 2 GENERATOR
24" RCP
12" RCP
109.2'
RIM=50.81'
INV (N)=42.0'
INV (S)=42.8'
CONNECT TO EXISTING CATCH BASIN INV.= 47.90
RIM=50.80'
INV (N)=42.0'
INV (S)=42.8'
LOD
GATE
LAWN
S24°36'35"W
587.51'
EDGE OF PAVEMENT
24" SEWER
ASPHALT
GATE
UP 9009
36" CL
18" SEWER
34" SEWER
SMH
RIM=52.20'
INV=38.5'
SEE SCHEDULE B SECTION 2 #14, #15
SMH
RIM=53.45'
INV=38.7'
ASSESSORS PLAT 50 LOT 728
N/F TEG REALTY, LLC
LAND EVIDENCE 5013 PAGE 243
SMH
RIM=50.22'
INV=38.9'
6" INV=39.2'
FF=52.2'
115.3'
135.8'
17.7'
ASPHALT BERM
CB-1
12" PVC
CB-17
78LF – 12" RCP S=0.005
CB-19
22LF – 12" RCP S=0.006
22LF – 12" RCP S=0.006
CB-18
CB-20
6" CLDI WATER
HYD
GV
8"x8"x6" TAPPING SLEEVE
DMH
RIM=51.90'
INV(SE)=45.15'
INV(N)=44.9'
CONC. RETAINING WALL
6" SEWER
602.2'
5227'
N
MATCHLINE – SEE SHEET C6.1
151LF 12" RCP S=0.010
135.2'
UST # 1 GENERATOR
FF=49.5'
39.6'
CONC. RETAINING WALL
GF=52.2'
CANOPY
FF=52.2'
CB-2
GATE ARM
105.6'
LS
12" HDPE S=0.015
86LF
HEATING OIL UST
LAWN
FF=52.2'
20.2'
GF=51.7'
CONNECT TO EXISTING DRAIN INV.= 46.60
29.3'
6.7'
CB
RIM=51.28
INV=46.6'
178LF – 12" RCP S=0.010
18-1
LAWN
LS
51.0'
MATCHLINE – SEE SHEET C6.1
110.2'
ASPHALT
WV
DROP INV=43.0'
Scale: 1"=20'
0 20' 40'

DRAIN INVERT TABLE

LABEL	RIM (FT)	INV. IN (FT)	INV. OUT (FT)
CB-1	50.75		47.30 SE
CB-2	48.50	45.30 NW 45.50 NW	45.10 SE
CB-3	47.25	43.55 NW	41.75 E
CB-4	45.00	42.00 N 42.50 N 41.30 W	41.20 SE
CB-5	46.00		42.40 S
CB-6	44.50	42.00 N 40.80 NW	40.70 NE
CB-7	43.50	40.10 SW 40.00 SW	40.00 SE
CB-8	44.10	40.75 NE	40.75 SW
CB-9	46.00	42.90 N	42.90 S
CB-10	49.50		45.50 SW
CB-11	49.25	45.65 NW	45.65 SE
CB-12	49.85		46.25 SE
CB-13	50.30	45.55 NW	45.55 SE

DRAIN INVERT TABLE

LABEL	RIM (FT)	INV. IN (FT)	INV. OUT (FT)
CB-14	50.50	46.30 NW	46.30 SE
CB-15	51.10	46.80 SW	46.80 SE
CB-16	50.80	47.25 SW 47.45 E	47.25 NE
CB-17	51.30	48.15 SW 48.15 NW	48.15 NE
CB-18	51.60		48.30 SE
CB-19	51.30	48.55 NW	48.55 NE
CB-20	51.50		48.70 SE
CB-21	43.52	40.50 SW	40.50 NE
DIV-1	47.50	44.15 NW	43.30 S 44.15 SE
DMH-1	43.50	40.25 NE	39.15 SE
DMH-2	45.02	42.55 N	42.55 SW
DMH-3	48.90	44.35 NW 45.30 NE 45.10 NW	44.35 SE
DMH-4	49.50	45.50 NW	45.25 SE

NOTES:

1. ALL CATCH BASINS AND DRAIN MANHOLES SHALL BE 4' DIA. PRECAST CONCRETE UNLESS NOTED OTHERWISE.
2. ALL DRAIN PIPES SHALL BE SMOOTH INTERIOR CORRUGATED HIGH DENSITY POLYETHYLENE UNLESS NOTED OTHERWISE.
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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF
DATED JUL 1 2016 FILE # 16-0135
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

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ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
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401-334-4100

OWNER/APPLICANT:
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125 DUPONT DRIVE
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Providence Water - Operations Facility

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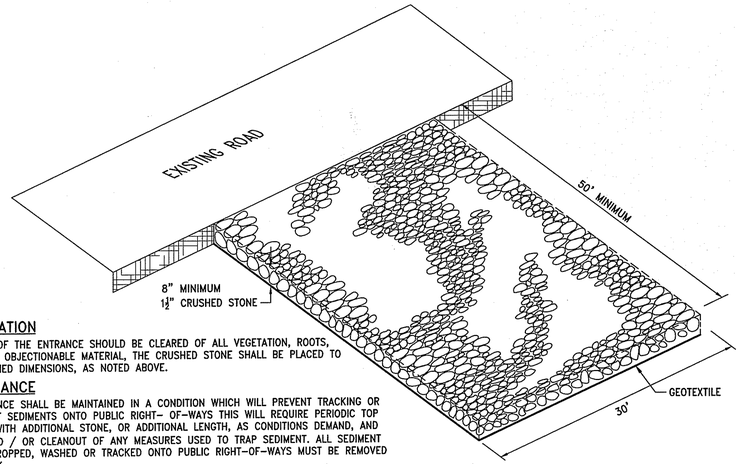
Providence, Rhode Island

DAVID L. POTTER
No. 8665
5.24.16
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:

PROJECT NO.:	15093.01
DATE:	MAY 24, 2016
SCALE:	1"=20'
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP
DRAWING TITLE:	DRAINAGE & UTILITY PLAN 4
DRAWING NO.:	C6.4
SHEET NO.	24 OF 33



INSTALLATION

THE AREA OF THE ENTRANCE SHOULD BE CLEARED OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL. THE CRUSHED STONE SHALL BE PLACED TO THE SPECIFIED DIMENSIONS, AS NOTED ABOVE.

MAINTENANCE

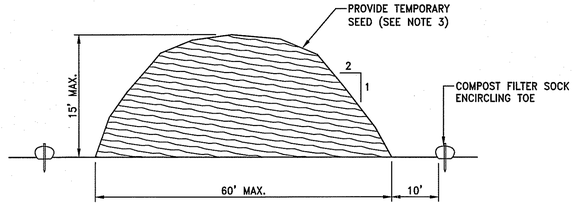
THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENTS ONTO PUBLIC RIGHT– OF–WAYS THIS WILL REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE, OR ADDITIONAL LENGTH, AS CONDITIONS DEMAND, AND REPAIR, AND / OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT–OF–WAYS MUST BE REMOVED IMMEDIATELY.

LOCATION

SEE PROJECT PLANS FOR LOCATION OF CONSTRUCTION ENTRANCE.

CONSTRUCTION ENTRANCE PROTECTION STONE STABILIZATION PAD

NOT TO SCALE

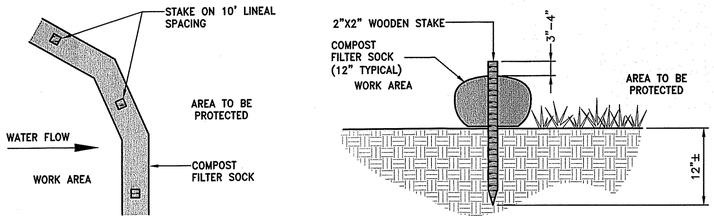


NOTES:

1. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL PREPARE A PLAN SHOWING THE PROPOSED LOCATION OF ALL STOCKPILE AREAS.
2. STOCKPILE AREA SHALL NOT EXCEED SPECIFIED DIMENSIONS WITHOUT APPROVAL FROM ENGINEER.
3. STOCKPILED ERODIBLE MATERIAL THAT WILL NOT BE USED FOR GREATER THAN 14 DAYS SHALL BE STABILIZED WITH TEMPORARY SEED IMMEDIATELY FOLLOWING PLACEMENT. USE MASSDOT STD. M6.03.1 EROSION SEED).

ERODIBLE MATERIAL STOCKPILE

NOT TO SCALE

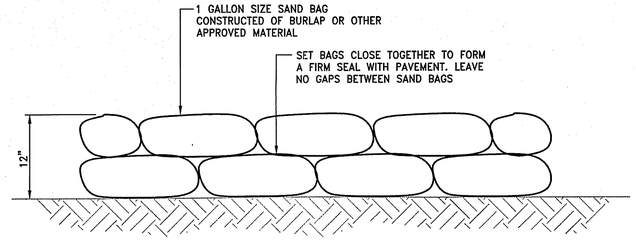


NOTES:

1. COMPOST/ SOIL/ ROCK/ SEED FILL TO MEET APPLICATION REQUIREMENTS.
2. COMPOST MATERIAL TO BE REMOVED OR DISPERSED ON SITE AS DETERMINED BY ENGINEER.

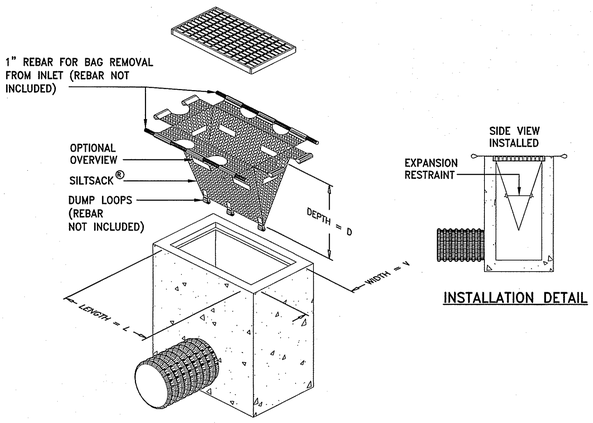
CFS COMPOST FILTER SOCK DETAIL

NOT TO SCALE



SB SAND BAG EROSION CONTROL BARRIER

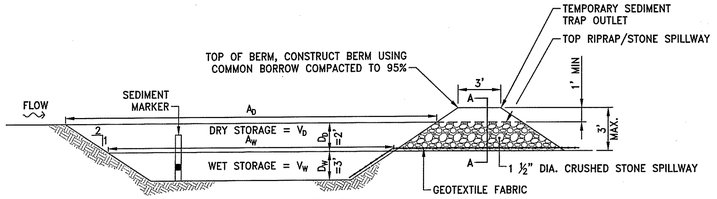
NOT TO SCALE



TIP TEMPORARY INLET PROTECTION

NOT TO SCALE

INSTALLATION DETAIL



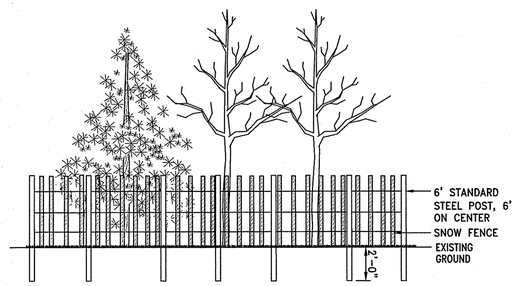
NOTES:

1. TEMPORARY SEDIMENT TRAPS SHALL BE CLEANED OR REMOVED EVERY 6 MONTHS.
2. RIPRAP SHALL MEET RIDOT STANDARD SPECIFICATION M.10.03.2.
3. STONE SHALL MEET RIDOT STANDARD SPECIFICATION M.01.09 TABLE I, COLUMN V (FILTER STONE).
4. SEDIMENT MARKER SHALL BE INSTALLED SUCH THAT TOP OF BLACK ENAMEL BAND IS 1.5' FROM THE BOTTOM OF THE SEDIMENT TRAP.
5. REFER TO SOIL EROSION AND SEDIMENT CONTROL PLANS FOR LIMITS OF A_D AND A_W.

	L_W (FT)	W_W (FT)	A_W (SF)	V_W (CF)	V_D (CF)	TOTAL STORAGE $V_W + V_D$ (CF)
TST	82	30	2460	6270	5840	12,110

TST TEMPORARY SEDIMENT TRAP DETAIL

NOT TO SCALE



TGP TREE GROUP PROTECTION DETAIL

NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF
DATED JUL 1 2016 FILE # 16-0135
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PARE
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

OWNER/APPLICANT:

PROVIDENCE WATER
125 DUPONT DRIVE
PROVIDENCE, RI
(401) 521-6300

Providence Water - Operations Facility

125 Dupont Drive
Providence, Rhode Island

DAVID L. POTTER
No. 8665
5.24.16
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:

PROJECT NO.:	15093.01
DATE:	MAY 24, 2016
SCALE:	NOT TO SCALE
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

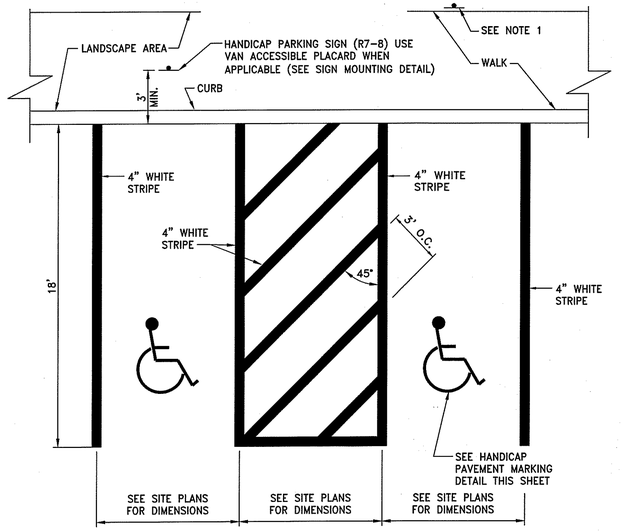
DRAWING TITLE:

DETAILS 1

DRAWING NO.:

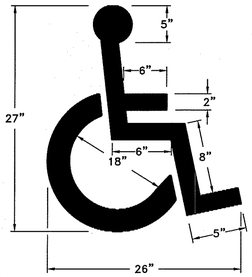
C7.1

SHEET NO. 25 OF 33



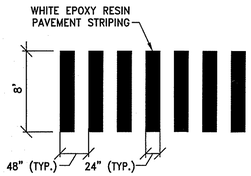
NOTE:
1. WHERE STALLS ABUT SIDEWALK, PARKING SIGNS SHOULD BE PLACED AT BACK EDGE OF SIDEWALK.
2. ALL PAVEMENT MARKINGS TO BE EPOXY RESIN.

SHP **HANDICAP PARKING STALLS @ 90°**
NOT TO SCALE

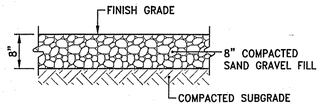


NOTE:
HANDICAP PARKING AND SIGNAGE SHALL BE IN CONFORMANCE WITH THE RULES & REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT.

HANDICAP PAVEMENT MARKING
NOT TO SCALE



CW **TYPICAL CROSSWALK DETAIL**
NOT TO SCALE

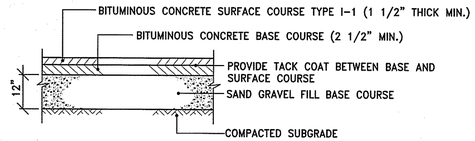


G **GRAVEL DRIVE**
NOT TO SCALE

LEGEND	DESIGNATION	SIZE
STOP	R1-1	(30" x 30")
DO NOT ENTER	R5-1	(24" x 24")
	R4-7	(18" x 24")

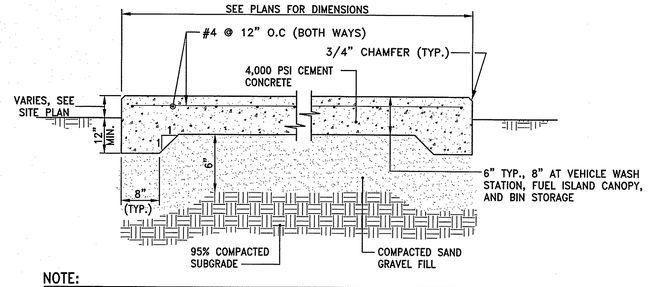
NOTE:
1. SIGNS SHALL BE CONSTRUCTED OF TYPE III REFLECTORIZED SHEETING AND IN ACCORDANCE WITH MUTCD REQUIREMENTS.
2. THE CONTRACTOR SHALL SUBMIT SAMPLE SIGNS TO THE OWNER FOR APPROVAL PRIOR TO FURNISHING.
3. LETTERS, COLOR, AND FONT FOR NON-STANDARD SIGNS SHALL BE SELECTED BY THE OWNER.

SIGN SCHEDULE



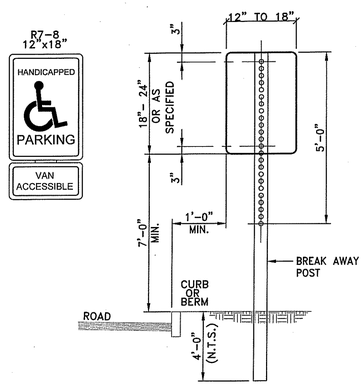
NOTES:
1. THE THICKNESS OF THE PROPOSED PAVEMENT COURSE SHALL MATCH THE EXISTING PAVEMENT. PROVIDE THE MINIMUM THICKNESS SHOWN.
2. SUBMIT JOB MIX FORMULAS TO ENGINEER FOR APPROVAL PRIOR TO PLACEMENT

BC **TYPICAL PAVEMENT DETAIL**
NOT TO SCALE



NOTE:
1. REINFORCING TO BE #4 GRADE 60 BARS AND SHALL CONFORM TO ASTM STANDARD A-615 OF THE LATEST DATA. REINFORCING RODS TO BE LOCATED IN THE CENTER OF THE SLAB, WITH A MINIMUM OF 2" CLEARANCE FROM FACE OF CONCRETE.
2. WHERE EQUIPMENT WILL BE LOCATED ON THE SLAB, CONTRACTOR SHALL COORDINATE ANY OPENINGS IN SLAB REQUIRED FOR UTILITIES, ETC. WITH EQUIPMENT MANUFACTURER.

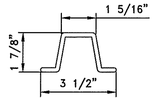
CP **CEMENT CONCRETE PAD**
NOT TO SCALE



NOTE:
5/16" x 2-1/2" GALVANIZED BOLTS & WASHERS

STEEL SPECIFICATION – A.S.T.M. DESIGNATION A499-64 ZINC (HOT GALVANIZED) SPECIFIED BY- A.S.T.M. A 123.

WT./FT.	3.00 #
Mom. Ix-x	0.484in^4
Sec Mod x-x	0.569in^3
Mon Iy-y	0.886in^4
Sec Mod y-y	0.506in^3

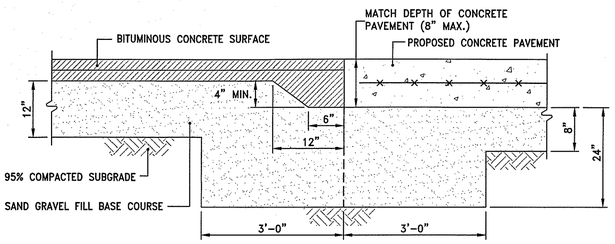


PARKING SIGNS SHALL BE SET AT AN ANGLE OF NOT LESS THAN 30° NOR MORE THAN 45° IN A LINE PARALLEL TO THE FLOW OF TRAFFIC.

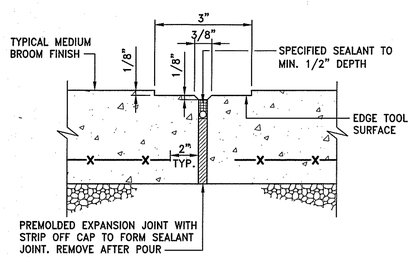
SIGN MOUNTING NOTES:
1. ALL LAG SCREWS, BOLTS AND WASHERS SHALL BE GALVANIZED 5/16"x2 1/2" LONG UNLESS OTHERWISE NOTED.
2. WASHERS SHALL BE 0.07" THICK.
3. ALL SIGN COLORS, RADII AND BORDERS AS SPECIFIED IN "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."
4. SHALL BE IN ACCORDANCE WITH SECTION T.15 OF THE STANDARD SPECIFICATIONS.
5. PARKING SIGNS SHALL BE SET AT AN ANGLE OF NOT LESS THAN 30° NOT MORE THAN 45° WITH A LINE PARALLEL TO FLOW OF TRAFFIC, 1'-6" (1'-0" MIN.) FROM THE EDGE OF CURB FACE.

HANDICAP SIGN NOTES:
1. ALL HANDICAP PARKING AND SIGNAGE SHALL BE IN CONFORMANCE WITH THE RULES & REGULATIONS AS SPECIFIED BY THE AMERICAN DISABILITES ACT (ADA).
2. SIGN(S) SHALL BE LOCATED SO THEY CANNOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE.
3. FOR HANDICAPPED VAN SPACE USE SIGN AS DETAILED.
4. FOR HANDICAPPED SPACE FOR AUTOMOBILES USE ONLY HANDICAPPED PARKING SIGN.

SIGN MOUNTING
NOT TO SCALE

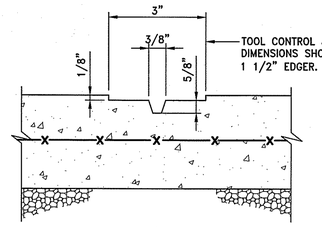


ASPHALT TURNDOWN DETAIL
NOT TO SCALE



EXPANSION JOINT AT 20' O.C. (TYP)

NOTES:
1. EXPANSION JOINTS (E.J.) 20 FEET O.C. UNLESS OTHERWISE NOTED.
2. CONTROL JOINTS (C.J.) 5 FEET O.C. UNLESS OTHERWISE NOTED.
3. WHERE EXISTING AND NEW CONCRETE SIDEWALKS MEET, SAWCUT EXISTING WALK AND INSTALL EXPANSION JOINT AND DOWELS AS SHOWN. DRILL EXISTING CONCRETE WALK EDGE TO RECEIVE STEEL DOWELS AT EXPANSION JOINT.



CONTROL JOINT AT 5' O.C. (TYP)

EXPANSION AND CONTROL JOINTS FOR SIDEWALK PAVING
NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF
DATED JUL 1 2016 FILE # 16-0135
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PARE
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

OWNER/APPLICANT:
PROVIDENCE WATER
125 DUPONT DRIVE
PROVIDENCE, RI
(401) 521-6300

Providence Water - Operations Facility
125 Dupont Drive
Providence, Rhode Island

DAVID L. POTTER
No. 8665
5.24.16
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

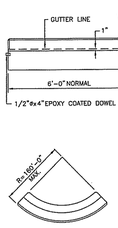
REVISIONS:

PROJECT NO.:	15093.01
DATE:	MAY 24, 2016
SCALE:	NOT TO SCALE
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
DETAILS 2

DRAWING NO.:
C7.2

SHEET NO. 26 OF 33



CIRCULAR CURB

NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0".
3. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
4. CIRCULAR CURB IS REQUIRED ON CURVES WITH RADII OF 160'-0" OR LESS. STRAIGHT CURB TO BE USED ON CURVES OF MORE THAN 160'-0" RADIUS.
5. EXPOSED EDGES TO HAVE A 3/4" CHAMFER.

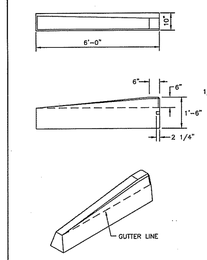
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS NO.	BY	DATE
1	MLP	Mar 05

PRECAST CONCRETE CURB

JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 7.1.0



NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. DRAWING SHOWS TRANSITION CURB FOR ONE DIRECTION. FOR OTHER DIRECTION USE OPPOSITE HAND AND INCLUDE A 1/2" ø x 4" EPOXY COATED DOWEL.
3. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
4. EXPOSED EDGES TO HAVE A 3/4" CHAMFER.

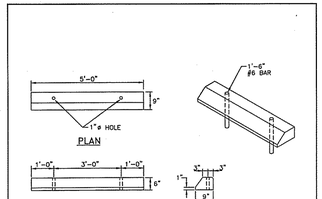
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS NO.	BY	DATE
1	MLP	Mar 05

6'-0" PRECAST CONCRETE TRANSITION CURB

JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 7.1.2



NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. ALL EXPOSED EDGES TO HAVE A 3/4" CHAMFER.
3. ALL SURFACES TO HAVE A SPONGE FLOAT FINISH.

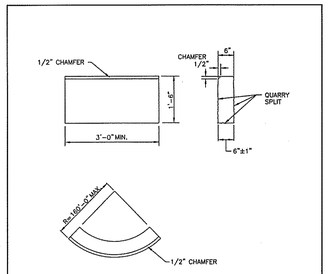
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS NO.	BY	DATE
1	MLP	Mar 05

PRECAST CONCRETE CAR STOPS

JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 7.2.4



CIRCULAR CURB

NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. TOP SURFACE TO BE DRESSED BY SAW. REMAINDER MAY BE QUARRY SPLIT.
3. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR PIECES TO BE 3'-0".
4. CIRCULAR CURB IS REQUIRED ON CURVES WITH RADII OF 160'-0" OR LESS. STRAIGHT CURB TO BE USED ON CURVES OF MORE THAN 160'-0" RADIUS.

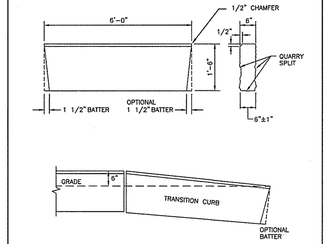
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS NO.	BY	DATE
1	MLP	Mar 2005
2	MLP	Sep 2013

GRANITE CURB

JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 7.5.0



NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. THE CONTRACTOR MAY CUT EXISTING CURB SECTIONS AS REQUIRED TO MEET THIS DETAIL AND THE R.I. STANDARD SPECIFICATIONS, WHERE OLD CURBING IS BEING REUSED.
3. TOP SURFACE TO BE DRESSED BY SAW. REMAINDER MAY BE QUARRY SPLIT.

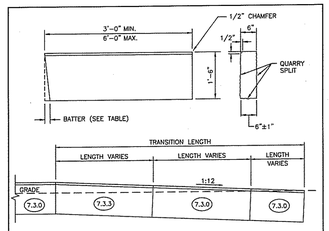
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS NO.	BY	DATE
1	MLP	Mar 2005
2	MLP	Sep 2013

6'-0" GRANITE TRANSITION CURB

JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 7.5.2



TRANSITION LENGTH (FT.)	BATTER (IN.)
6.0	1.5
7.0	1.3
8.0	1.2
9.5	1.0
11.5	0.8
15.0	0.6
18.0	0.5

NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. THE CONTRACTOR MAY CUT EXISTING CURB SECTIONS AS REQUIRED TO MEET THIS DETAIL AND THE R.I. STANDARD SPECIFICATIONS, WHERE OLD CURBING IS BEING REUSED.
3. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR CURB FILLER PIECES TO BE 3'-0" (GREATER LENGTHS PREFERRED).
4. TOP SURFACE TO BE DRESSED BY SAW. REMAINDER MAY BE QUARRY SPLIT.

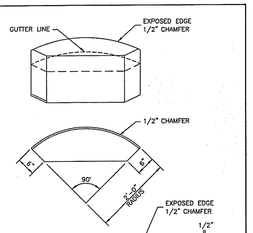
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS NO.	BY	DATE
1	MLP	Mar 2005
2	MLP	Jan 2013

GRANITE WHEELCHAIR RAMP TRANSITION CURB

JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 7.3.5



NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. TOP SURFACE TO BE DRESSED BY SAW. REMAINDER MAY BE QUARRY SPLIT.

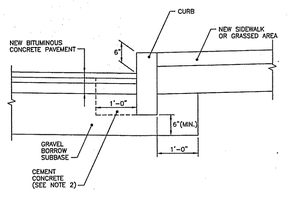
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS NO.	BY	DATE
1	MLP	Mar 2005
2	MLP	Sep 2012

GRANITE 2'-0" RADIUS CORNER

JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 7.3.4



NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
2. CEMENT CONCRETE CURB LOCK SHALL BE PROVIDED ON ALL CURB.

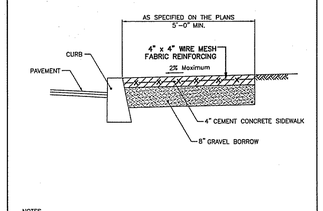
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS NO.	BY	DATE
1	MLP	Mar 05

CURB SETTING DETAIL

JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 7.6.0M



NOTES
1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
2. FOR CURB SETTING DETAIL REFERENCE STD. 7.6.0.
3. 4" x 4" WIRE MESH FABRIC REINFORCING SHALL BE IN ACCORDANCE TO RI STANDARD SPECIFICATIONS OF SECTION M.05.02.
4. PROVIDE MEDIUM BROOM FINISH.

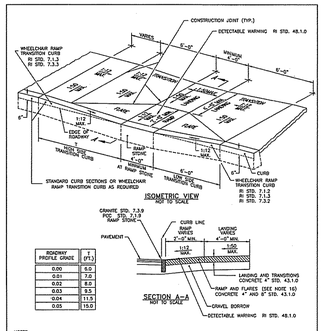
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS NO.	BY	DATE
1	MLP	3/7/05
2	MLP	05/01/10

CEMENT CONCRETE SIDEWALK

JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 43.1.0M



ROADWAY PROFILE GRADE	T (FT.)
0.00	6.0
0.01	7.0
0.02	8.0
0.03	9.5
0.04	11.5
0.05	15.0

NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE RI STANDARD SPECIFICATIONS.
2. WHERE ANY OBSTRUCTION LOCATED IN THE SIDEWALK FALLS WITHIN A CROSSWALK AREA, THE WHEELCHAIR RAMP SHALL BE PLACED SUCH THAT THE OBSTRUCTION FALLS OUTSIDE OF THE RAMP.
3. AT NO TIME IS ANY PART OF THE WHEELCHAIR RAMP TO BE LOCATED OUTSIDE OF THE CROSSWALK, AND IT IS TO BE CENTERED WHENEVER POSSIBLE.
4. DRAINAGE FACILITIES ARE TO BE LOCATED UP-GRADE OF ALL WHEELCHAIR RAMPS.
5. LOCATION OF WHEELCHAIR RAMPS IS AS SHOWN ON CONTRACT DRAWINGS.
6. ALL REQUIRED CUTTING OF CURB PIECES TO BE PAID FOR UNDER COST OF CURB.
7. WHERE THE ROAD PROFILE EXCEEDS 5% THE TRANSITION LENGTH (T) SHALL BE EIGHTEEN FEET (18'-0").
8. THE ENTRANCE OF THE WHEELCHAIR RAMP SHALL BE FLUSH WITH THE ROADWAY.
9. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0"(GREATER LENGTHS PREFERRED).
10. AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 4'-0" SHALL BE MAINTAINED.
11. AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 4'-0" SHALL BE MAINTAINED.
12. THE WHEELCHAIR RAMP SHALL BE CENTERED EQUALLY OPPOSITE THE RADIUS POINT WHEN POSSIBLE.
13. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0" (GREATER LENGTHS PREFERRED).
14. ALL CONCRETE SHALL BE 4000 PSI AT 28 DAYS AND AIR ENTRAINED.
15. DETECTABLE WARNINGS TO BE PAID FOR UNDER SECTION 843.12" AND IS STANDARD SPECIFICATIONS.
16. 8" CONCRETE DEPTH FOR RADIUS WHEELCHAIR RAMPS ONLY. USE 4" DEPTH FOR TANGENT (MID-BLOCK) LOCATIONS.

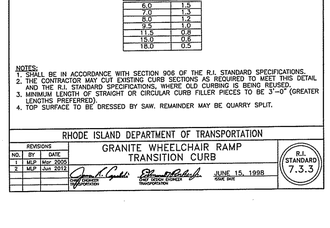
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS NO.	BY	DATE
1	MLP	Dec 2009
2	MLP	Sep 2013

WHEELCHAIR RAMP FOR LIMITED RIGHT-OF-WAY AREAS

JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 43.3.0



ROADWAY ROADWAY GRADE	T
0.00	6.0
0.01	7.0
0.02	8.0
0.03	9.5
0.04	11.5
0.05	15.0

NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
2. THIS DETAIL IS TO BE USED ONLY WHEN STATE RIGHT-OF-WAY IS LIMITED TO BACK OF SIDEWALK, AND SIDEWALK IS NARROW WITH LITTLE PEDESTRIAN TRAFFIC FROM SIDE STREET.
3. WHENEVER ANY OBSTRUCTION LOCATED IN THE SIDEWALK FALLS WITHIN A CROSSWALK AREA, IF POSSIBLE, THE OBSTRUCTION SHALL BE PLACED SUCH THAT IT FALLS OUTSIDE OF THE RAMP.
4. AT NO TIME IS ANY PART OF THE WHEELCHAIR RAMP TO BE LOCATED OUTSIDE OF THE CROSSWALK, AND IT IS TO BE CENTERED WHENEVER POSSIBLE.
5. DRAINAGE FACILITIES ARE TO BE LOCATED UP-GRADE OF ALL WHEELCHAIR RAMPS.
6. LOCATION OF WHEELCHAIR RAMPS IS AS SHOWN ON CONTRACT DRAWINGS.
7. ALL REQUIRED CUTTING OF CURB PIECES TO BE PAID FOR UNDER COST OF CURB.
8. WHERE THE ROAD PROFILE EXCEEDS 5% THE TRANSITION LENGTH (T) SHALL BE EIGHTEEN FEET (18'-0").
9. THE ENTRANCE OF THE WHEELCHAIR RAMP SHALL BE FLUSH WITH THE ROADWAY.
10. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0"(GREATER LENGTHS PREFERRED).
11. AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 4'-0" SHALL BE MAINTAINED.

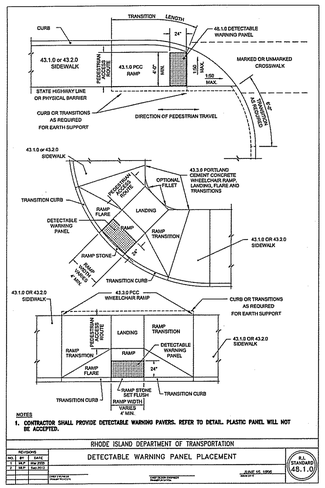
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS NO.	BY	DATE
1	MLP	Dec 2009
2	MLP	Dec 2013

WHEELCHAIR RAMP FOR LIMITED RIGHT-OF-WAY AREAS

JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 43.3.1



NOTES
1. CONTRACTOR SHALL PROVIDE DETECTABLE WARNING PAVERS. REFER TO DETAIL. PLASTIC PANEL WILL NOT BE ACCEPTED.

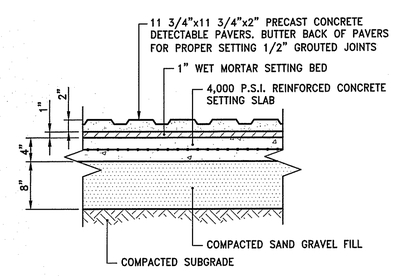
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS NO.	BY	DATE
1	MLP	Mar 2005
2	MLP	Jan 2013

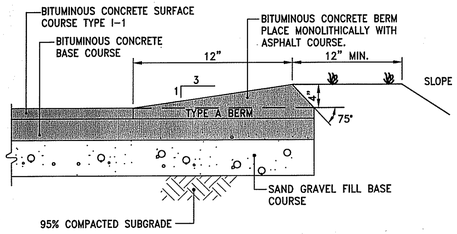
DETECTABLE WARNING PANEL PLACEMENT

JUNE 15, 1998 ISSUE DATE

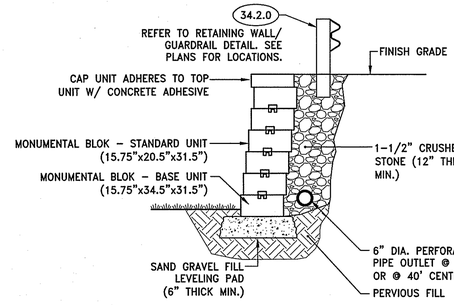
R.I. STANDARD 48.1.0



DWP **DETECTABLE WARNING PAVER**
NOT TO SCALE

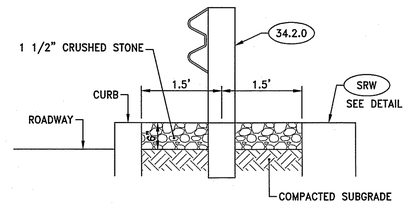


BB **BITUMINOUS BERM**
NOT TO SCALE



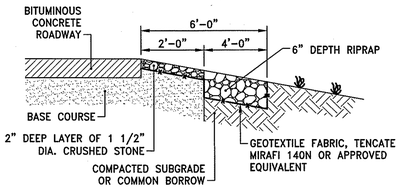
NOTES:
1. CONTRACTOR SHALL PROVIDE A DESIGN FOR THE PROPOSED WALL PREPARED AND STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF RHODE ISLAND.
2. WALL DESIGN SHALL CONFORM TO MANUFACTURER'S REQUIREMENTS. WALL DESIGN SHALL INCORPORATE PROPOSED GUARDRAIL WHERE INDICATED ON PLANS.

SRW **SEGMENTAL BLOCK RETAINING WALL DETAIL**
NOT TO SCALE

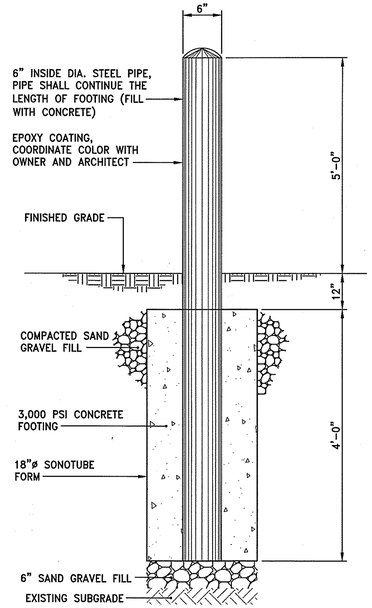


RETAINING WALL/GUARDRAIL DETAIL
NOT TO SCALE

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUL 1 2016 FILE # 16-0135
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



RR **RIPRAP EDGE**
NOT TO SCALE



BOL **BOLLARD DETAIL**
NOT TO SCALE

PARE
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

OWNER/APPLICANT:

PROVIDENCE WATER
125 DUPONT DRIVE
PROVIDENCE, RI
(401) 521-6300

Providence Water - Operations Facility

125 Dupont Drive
Providence, Rhode Island

DAVID L. POTTER
No. 8665
5.24.16
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:

PROJECT NO.:	15093.01
DATE:	MAY 24, 2016
SCALE:	NOT TO SCALE
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

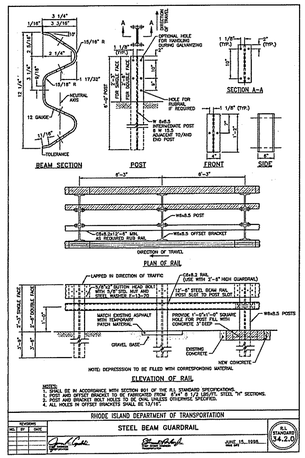
DRAWING TITLE:

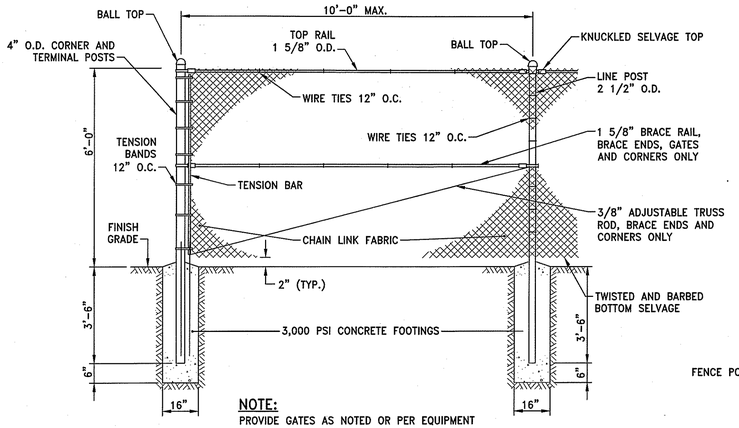
DETAILS 3

DRAWING NO.:

C7.3

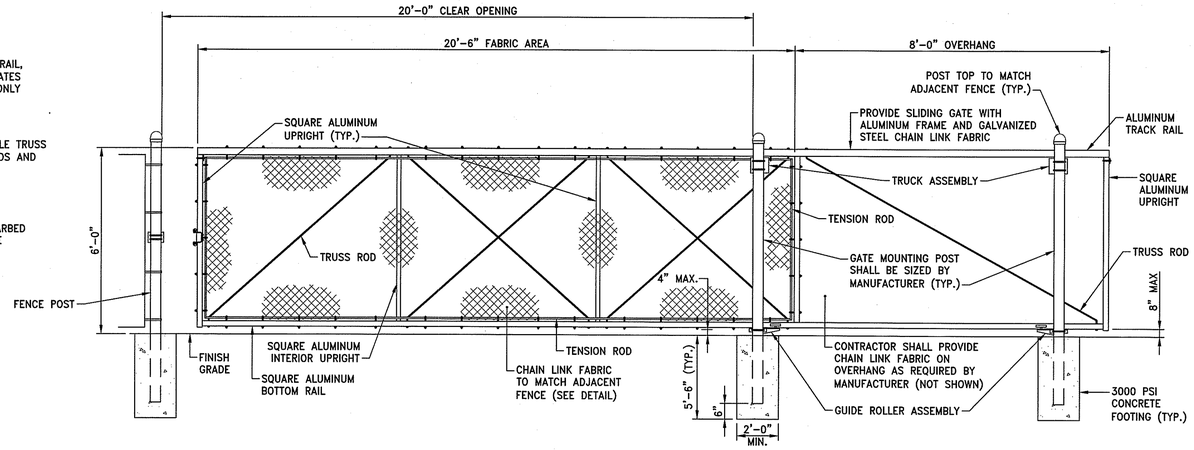
SHEET NO. 27 OF 33





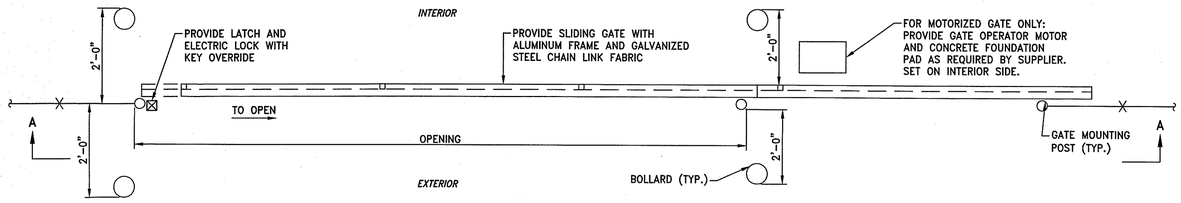
NOTE:
PROVIDE GATES AS NOTED OR PER EQUIPMENT MANUFACTURER'S SPECIFICATIONS.

CLF **CHAIN LINK FENCE**
NOT TO SCALE



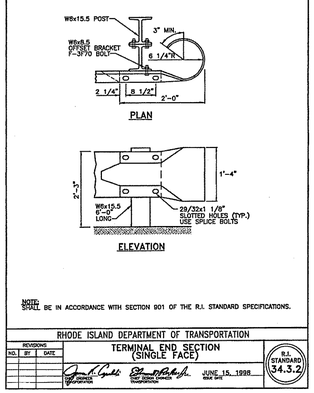
SECTION A-A

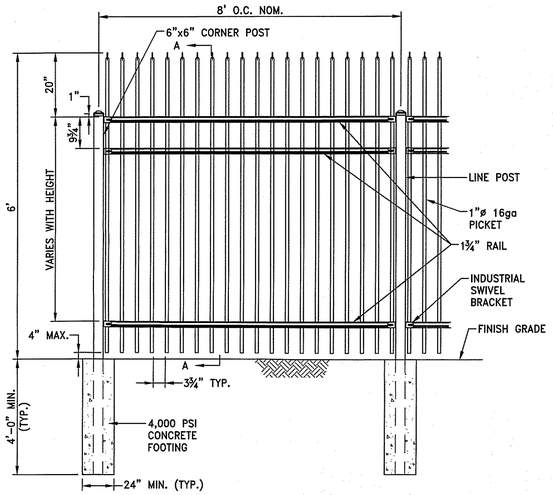
SLG **CANTILEVERED SLIDING GATE**
NOT TO SCALE



NOTES:
1. GATE DESIGN IS FOR GENERIC DETAIL ONLY. GATE MANUFACTURER SHALL SUBMIT ACTUAL DESIGN OF GATE MEETING THE INTENDED GATE HEIGHT AND CLEAR OPENING DIMENSIONS.
2. REFER TO ELECTRICAL DRAWINGS FOR AUTOMATIC OPERATING AND LOCKING SYSTEMS, INTERCOM, AND LIGHTING AT MOTORIZED GATE.

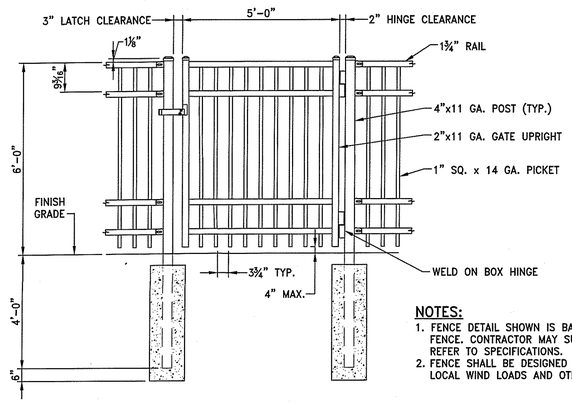
CANTILEVERED GATE PLAN





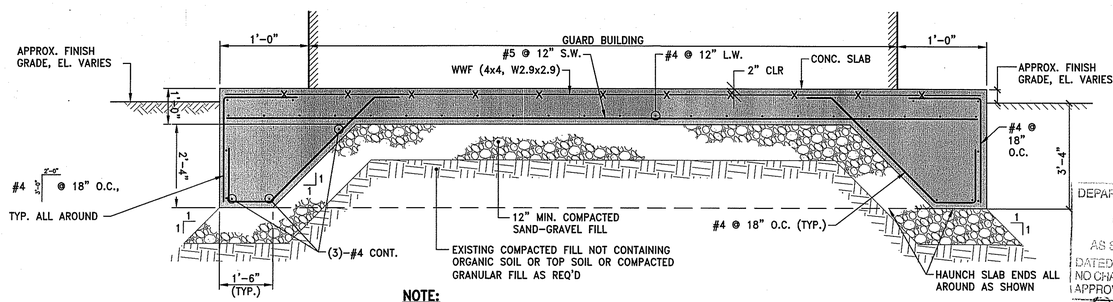
NOTE:
1. DECORATIVE FENCING SHALL MATCH DETAILS OF FENCING ALREADY INSTALLED ON SITE.

TYPICAL DECORATIVE FENCE DETAIL
NOT TO SCALE



NOTES:
1. FENCE DETAIL SHOWN IS BASED ON "AMERISTAR AEGIS II MAJESTIC" FENCE. CONTRACTOR MAY SUBMIT ALTERNATE FENCES FOR APPROVAL. REFER TO SPECIFICATIONS.
2. FENCE SHALL BE DESIGNED BY FENCE MANUFACTURER TO WITHSTAND LOCAL WIND LOADS AND OTHER ENVIRONMENTAL FACTORS.

SWG **PEDESTRIAN SWING GATE**
NOT TO SCALE



NOTE:
1. CONTRACTOR SHALL COORDINATE AND PROVIDE OPENINGS IN THE FOUNDATION SLAB FOR CONDUITS, PLUMBING, AND ALL OTHER REQUIRED UTILITIES.
2. REFER TO 'GUARD SHED BASE ATTACHMENT DETAIL' FOR BUILDING ATTACHMENT TO SLAB.

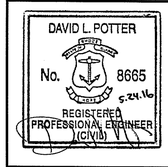
GUARD BUILDING FOUNDATION DETAIL
NOT TO SCALE

PARE
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

OWNER/APPLICANT:
PROVIDENCE WATER
125 DUPONT DRIVE
PROVIDENCE, RI
(401) 521-6300

Providence Water - Operations Facility

125 Dupont Drive
Providence, Rhode Island



REVISIONS:

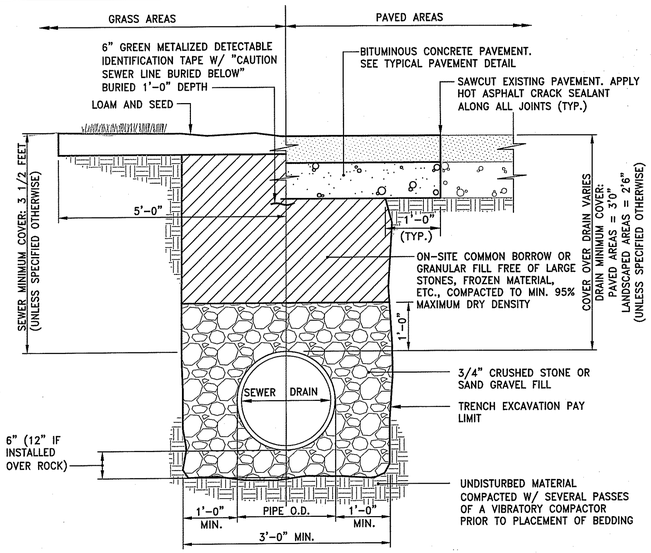
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUL 1 2016 FILE # 16-0135
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PROJECT NO.:	15093.01
DATE:	MAY 24, 2016
SCALE:	NOT TO SCALE
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
DETAILS 4

DRAWING NO.:
C7.4

SHEET NO. 28 OF 33

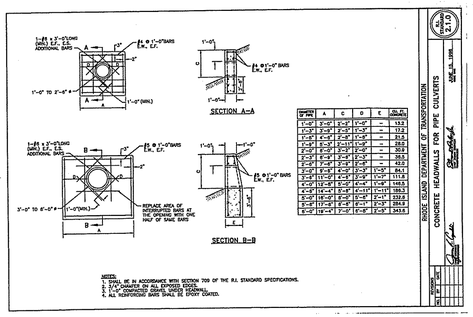


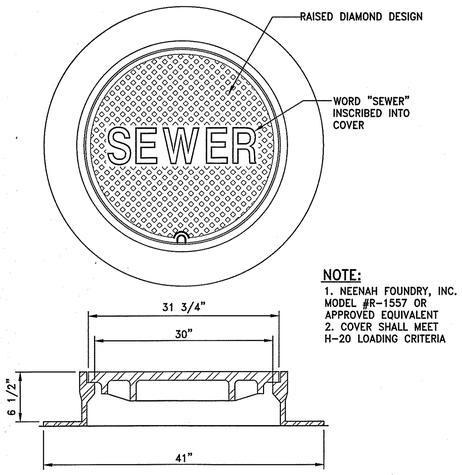
NOTES:

1. WHERE THE DISTANCE BETWEEN THE SAWCUT AND EDGE OF PAVEMENT IS 3' OR LESS, THE CONTRACTOR SHALL REPLACE THE PAVEMENT FROM THE TRENCH EDGE TO THE EXISTING EDGE OF PAVEMENT.
2. 3/4" DIA. CRUSHED STONE SHALL BE USED AS BEDDING WHERE TRENCH IS BELOW THE GROUND WATER TABLE.

GRAVITY SEWER/DRAIN TRENCH DETAIL

NOT TO SCALE



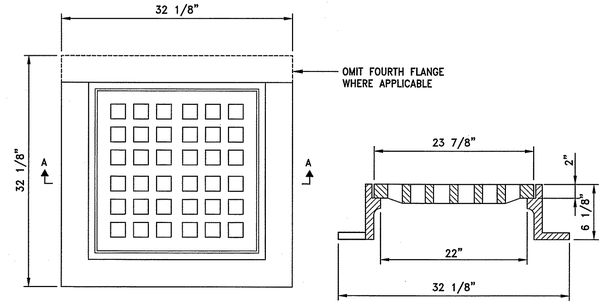


NOTE:

1. NEENAH FOUNDRY, INC. MODEL #R-1557 OR APPROVED EQUIVALENT
2. COVER SHALL MEET H-20 LOADING CRITERIA

SANITARY MANHOLE FRAME & COVER

NOT TO SCALE



PLAN

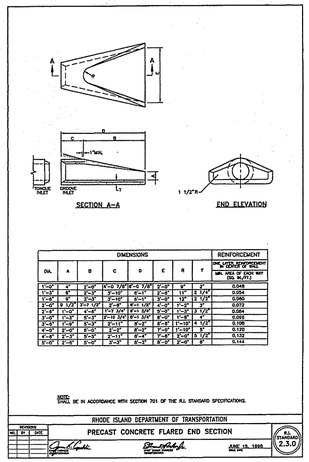
SECTION A–A

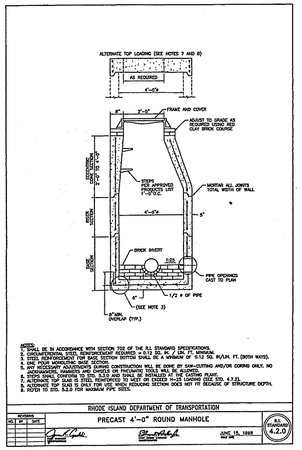
NOTES:

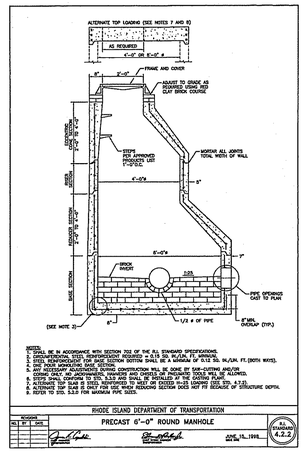
1. NEENAH FOUNDRY R-3405-A OR EQUIVALENT.
2. FRAME AND GRATE SHALL MEET H-20 LOADING CRITERIA.

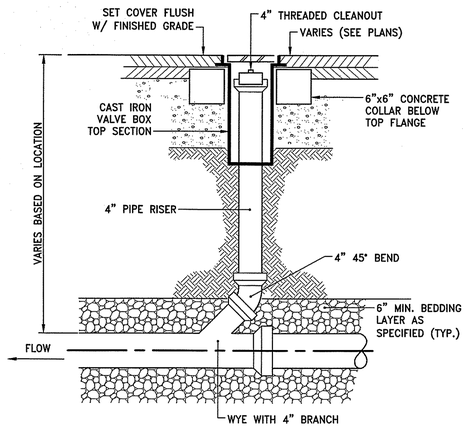
SQUARE CATCH BASIN FRAME & GRATE

NOT TO SCALE



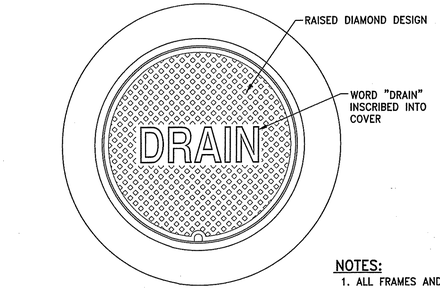






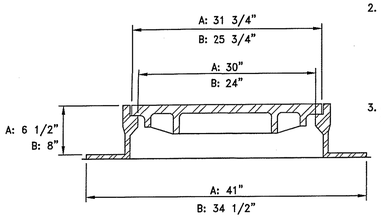
CLEANOUT DETAIL

NOT TO SCALE



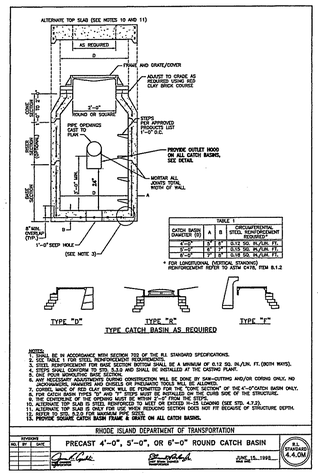
NOTES:

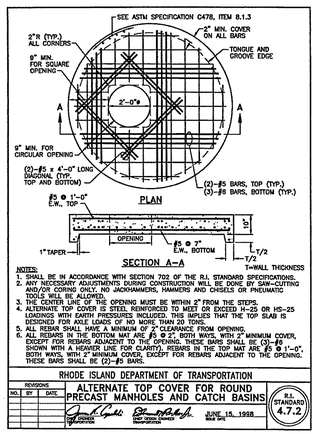
1. ALL FRAMES AND COVERS SHALL MEET H-20 LOADING CRITERIA.
2. PROVIDE:
   - A: 30" DIA. DRAIN MANHOLE FRAME AND COVER SHALL BE NEENAH FOUNDRY, INC. MODEL #R-1557 OR APPROVED EQUIVALENT.
   - B: 24" DIA. DRAIN MANHOLE FRAME AND COVER SHALL BE NEENAH FOUNDRY, INC. MODEL #R-1556 OR APPROVED EQUIVALENT.
3. ALL DRAIN MANHOLES SHALL HAVE 24" DIA. DRAIN MANHOLE COVER UNLESS NOTED OTHERWISE.

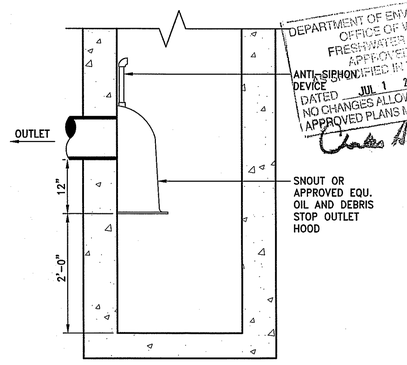


DRAIN MANHOLE FRAME & COVER

NOT TO SCALE







OUTLET HOOD DETAIL

NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS SECTION
APPROVED WITH CONDITIONS AS NOTED IN THIS LETTER
ANTI-SIPHON DEVICE DATED JUL 1 2016 FILE # 16-0135
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PARE
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

OWNER/APPLICANT:

PROVIDENCE WATER
125 DUPONT DRIVE
PROVIDENCE, RI
(401) 521-6300

Providence Water - Operations Facility

125 Dupont Drive
Providence, Rhode Island

DAVID L. POTTER
No. 8665
5.24.16
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:

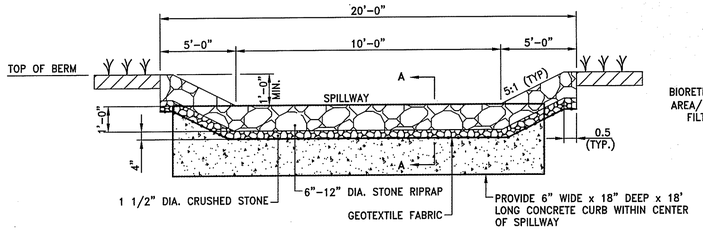
PROJECT NO.:	15093.01
DATE:	MAY 24, 2016
SCALE:	NOT TO SCALE
DESIGNED BY:	VAH
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

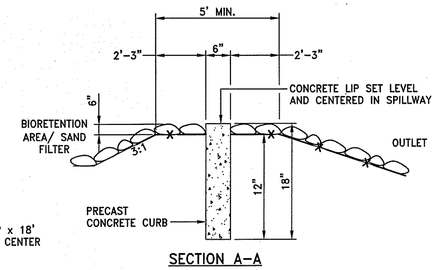
DRAWING TITLE:

DETAILS 5

DRAWING NO.: C7.5

SHEET NO. 29 OF 33

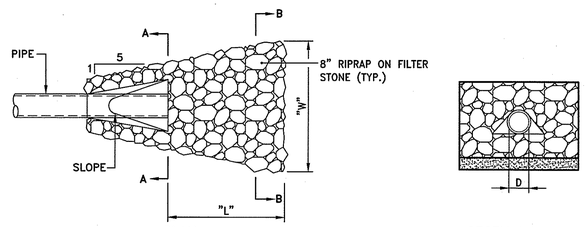




SECTION A–A

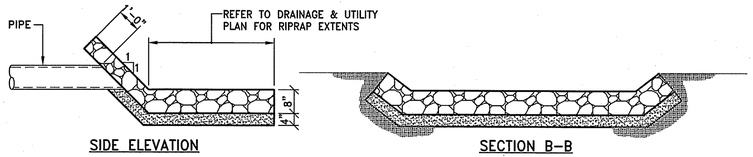
NOTE:
CONTRACTOR SHALL FILL VOIDS BETWEEN CURB SECTIONS WITH MORTAR

RS RIPRAP SPILLWAY DETAIL
NOT TO SCALE



PLAN

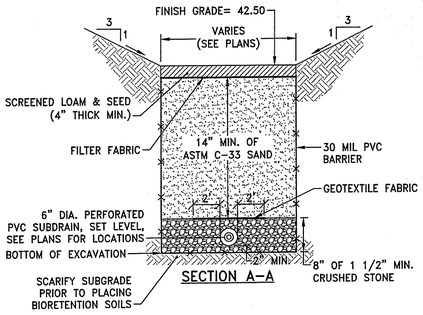
SECTION A–A



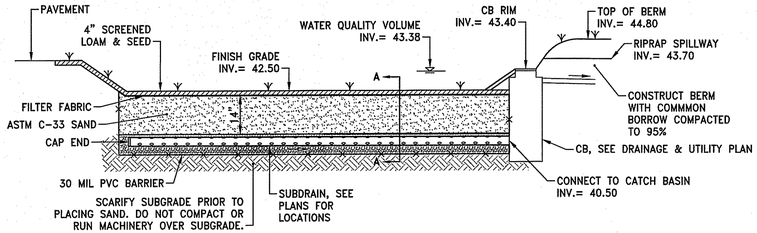
SIDE ELEVATION

SECTION B–B

RLS RIPRAP LEVEL SPREADER
NOT TO SCALE

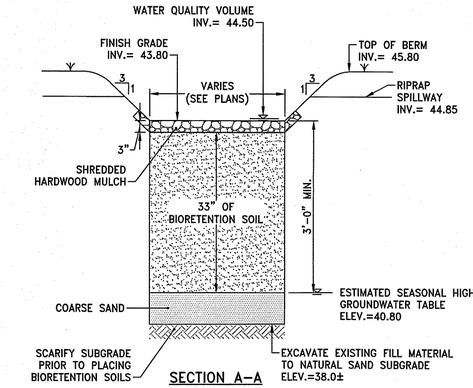


SECTION A–A



NOTES:
1. SEED WITHIN SAND FILTER SHALL BE NATIVE SEED MIX PER R.I. STD. M.18.10.6.
2. SCREENED LOAM SHALL CONFORM TO "SANDY LOAM" PER USDA TEXTURAL CLASSIFICATION SYSTEM.

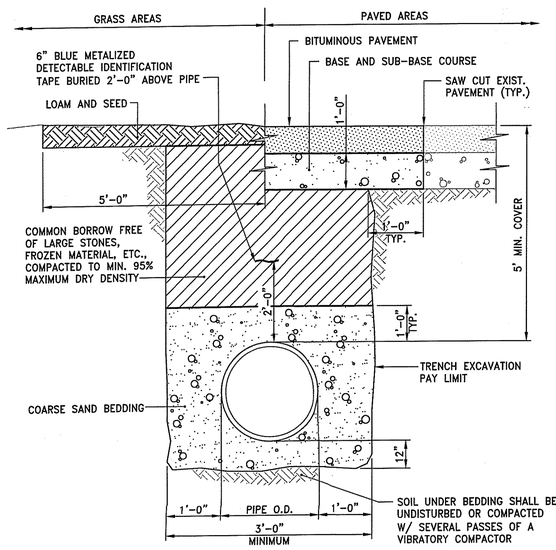
SAND FILTER DETAIL
NOT TO SCALE



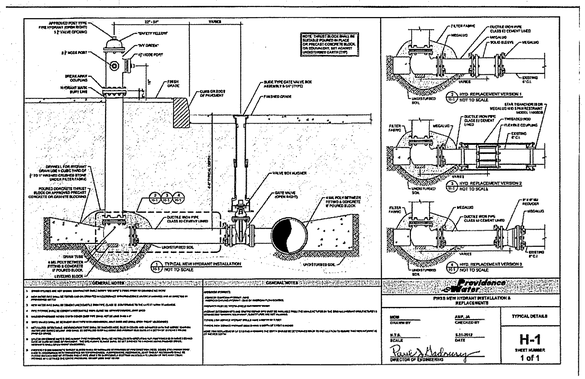
SECTION A–A

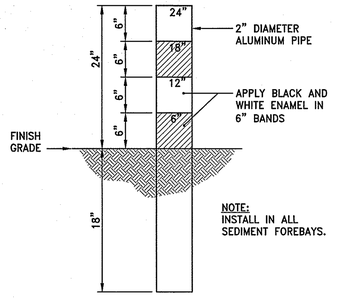
BIORETENTION SOIL: 85–88% SAND, 8–12% SILT, 3–5% COMPOST ORGANIC CONTENT SHALL BE 1.5%–3%

BIORETENTION DETAIL
NOT TO SCALE

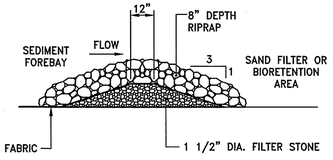


TYPICAL WATER MAIN TRENCH DETAIL
NOT TO SCALE





SM SEDIMENT MARKER DETAIL
NOT TO SCALE



SFCD SEDIMENT FOREBAY CHECK DAM
NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS SECTION
APPROVED
AS SPECIFIED IN THE PERMIT
DATED JUL 1 2016 FILE # 16-0135
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Charles A. Horbert

PARE
PARE CORPORATION
ENGINEERS · SCIENTISTS · PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

OWNER/APPLICANT:

PROVIDENCE WATER
125 DUPONT DRIVE
PROVIDENCE, RI
(401) 521-6300

Providence Water · Operations Facility
125 Dupont Drive
Providence, Rhode Island

DAVID L. POTTER
No. 8665
5.24.16
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:

PROJECT NO.:	15093.01
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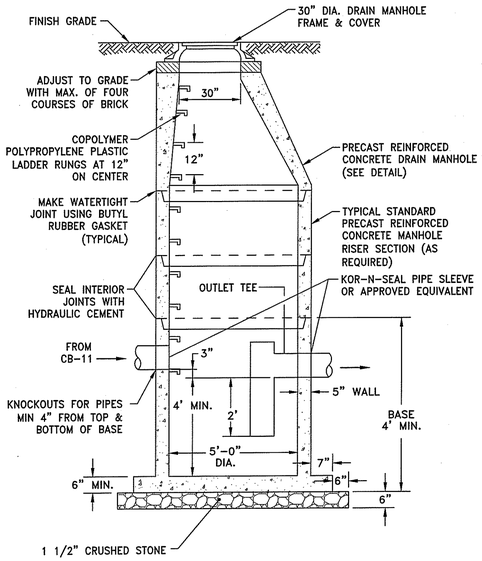
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:
DETAILS 6

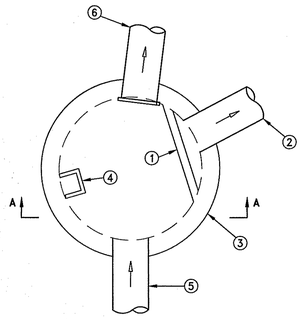
DRAWING NO.:
C7.6

SHEET NO. 30 OF 33



PRECAST CONCRETE OIL WATER SEPARATOR

NOT TO SCALE

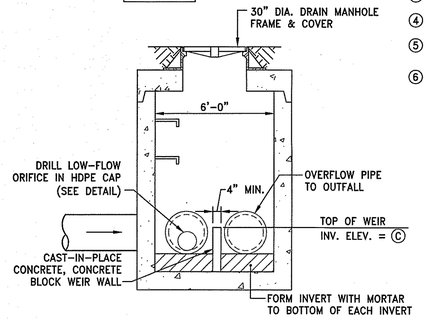


DIV 1

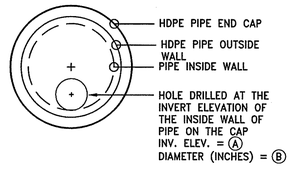
	Ⓐ	Ⓑ	Ⓒ
DIV 1	44.15	7.0	44.75

TYPICAL NOTES LEGEND

1. CAST IN PLACE CONCRETE DIVERSION WEIR WALL (4" WIDE)
2. OVERFLOW PIPE TO OUTFALL
3. PRECAST 6' DIAMETER MANHOLE (RIDOT STANDARD 4.2.2)
4. PROVIDE STEPS PER RIDOT STANDARD 4.2.1
5. PIPE IN
6. HDPE PIPE WITH CAP AND LOW FLOW WATER QUALITY ORIFICE (REFER TO CAP DETAIL) TO SAND FILTER OR



SECTION A–A DIVERSION WEIR WALL ELEVATION



CAP ELEVATION

TYPICAL DIVERSION MANHOLE DETAIL

NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS
APPROVED WITH CONDITIONS
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16-0135

PARE
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

OWNER/APPLICANT:

PROVIDENCE WATER
125 DUPONT DRIVE
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Providence Water - Operations Facility

125 Dupont Drive
Providence, Rhode Island

DAVID L. POTTER
No. 8665
5.24.16
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

REVISIONS:

PROJECT NO.:	15093.01
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CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	DLP

DRAWING TITLE:

DETAILS 7

DRAWING NO.:

C7.7

SHEET NO. 31 OF 33

PLANT SCHEDULE L1.0 SEE PLANT SCHEDULE THIS SHEET

2016-05-24 11:09

TREES	BOTANICAL NAME / COMMON NAME	CONT	CAL	SIZE	QTY
ACE	Acer rubrum 'October Glory' TM / October Glory Maple	B&B	2"-2.5" Cal.		5
AME	Amelanchier x grandiflora 'Autumn Brilliance' / 'Autumn Brilliance' Serviceberry	clump		8/10'	3
BNH	Betula nigra 'Heritage' / Heritage River Birch Multi-stem	clump		10/12'	3
CC	Carpinus betulus 'Columnaris' / Columnar European Hornbeam	B&B	2"-2.5" Cal.		7
PO	Prunus incisa x campanulata / Okame Flowering Cherry	B&B	2.5"-3" Cal.		2
PCB	Pyrus calleryana 'Bradford' / Bradford Flowering Pear	B&B	2"-2.5" Cal.		6
QRF	Quercus robur 'Fastigiata' / Pyramidal English Oak	B&B	2"-2.5" Cal.		3
TOS	Thuja occidentalis 'Smaragd' / Emerald Green Arborvitae	B&B		7/8'	11
TA	Thuja plicata 'Atrovirens' / Western Red Cedar	B&B		8/10'	8
UMP	Ulmus parvifolia 'Homestead' / Homestead Elm	B&B	2"-2.5" Cal.		11

SHRUBS	BOTANICAL NAME / COMMON NAME	CONT	QTY
CK	Calamagrostis x acutiflora 'Karl Foerster' / Feather Reed Grass	30"-36"	86
CAR	Clethra alnifolia 'Ruby Spice' / Ruby Spice Clethra	30"-36"	8
CS	Cornus sericea / Red Twig Dogwood	30"-36"	18
HV	Hamamelis virginiana / Common Witch Hazel	7 Gal.	7
HL	Hydrangea paniculata 'Little Lima' / Little Lima Hydrangea	30"-36"	61
IG	Ilex crenata 'Green Lustre' / Green Luster Japanese Holly	24"-36"	21
IVJ	Ilex verticillata 'Jim Dandy' / Jim Dandy Winterberry	24"-30"	1
IVS	Ilex verticillata 'Sparkleberry' / Winterberry	24"-30"	25
ID	Ilex x meserveae 'Dragon Lady' / Dragon Lady Meserve Holly	7 Gal.	3
INS	Ilex x 'Nellie R Stevens' / Nellie Stevens Holly	30"-36"	3
PH	Pennisetum alopecuroides 'Hameln' / Hameln Dwarf Fountain Grass	2 gal	51
RB	Rosa x 'Blushing Knockout' / Rose	3 gal	10

GROUND COVERS	BOTANICAL NAME / COMMON NAME	CONT	SPACING	QTY
HP	Hosta x 'Patriot' / Patriot Hosta	1 Gal.	36" o.c.	37
SM	Salvia x sylvestris 'May Night' / Sage	1 Gal.	36" o.c.	29

SOD/SEED	BOTANICAL NAME / COMMON NAME	CONT	SPACING	QTY
NB	New England Wetmix New England Plants / Bioretention mix Per manufacturers instructions	seed		1,992 sf

PLANT SCHEDULE PLANTS TO BE INSTALLED BY GROUNDWORK PROVIDENCE

2016-05-24 11:09

TREES	BOTANICAL NAME / COMMON NAME	CONT	CAL	QTY
GLE	Gleditsia triacanthos inermis 'Shademaster' TM / Shademaster Locust	B&B	2"-2.5" Cal.	3

SHRUBS	BOTANICAL NAME / COMMON NAME	CONT	QTY
PH	Pennisetum alopecuroides 'Hameln' / Hameln Dwarf Fountain Grass	2 gal	43

SOD/SEED	BOTANICAL NAME / COMMON NAME	CONT	SPACING	QTY
NB	New England Wetmix New England Plants / Bioretention mix Per manufacturers instructions	seed		20,486 sf

NOTE:
1. ALL DISTURBED AREAS SHALL BE LOAMED AND SEEDED
2. IMPROVEMENTS WILL BE CONSTRUCTED BY GROUNDWORK PROVIDENCE WITH FUNDING RECEIVED FROM THE RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT WATER RESOURCES DIVISION TO ENGAGE PROPERTY OWNERS IN THE HUNTINGTON BUSINESS PARK IN THE CREATION OF GREEN INFRASTRUCTURE PROJECTS THAT WOULD DIVERT POLLUTED STORMWATER FROM GOING INTO NEARBY MASHAPAUG POND AND ADD MUCH NEEDED SHADE AND COOLING GREEN SPACE TO THE OTHERWISE HOT, PAVED LANDSCAPE OF THE BUSINESS PARK.

LOAM AND BIORETENTION SEED MIX SHALL BE COMPLETED BY GROUNDWORK PROVIDENCE, SEE NOTE 2.

WORK IN THIS AREA SHALL BE COMPLETED BY GROUNDWORK PROVIDENCE, SEE NOTE 2.

CONSTRUCTION OF PLANTING BEDS SHALL BE COMPLETED BY GROUNDWORK PROVIDENCE, SEE NOTE 2.

RE-LOCATED ORNAMENTAL BENCH

BIORETENTION SEED MIX

BIORETENTION AREA

SEDIMENT FOREBAY

SAND FILTER

SEDIMENT FOREBAY

BIKE RACK

BIKE RACK

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUL 1 2016 FILE # 16-0135
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PARE
PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100

BIRCHWOOD DESIGN GROUP

REGISTERED LANDSCAPE ARCHITECT
ARTHUR J EDDY
No. 432

Providence Water - Operations Facility

125 Dupont Drive
Providence, Rhode Island

REVISIONS:

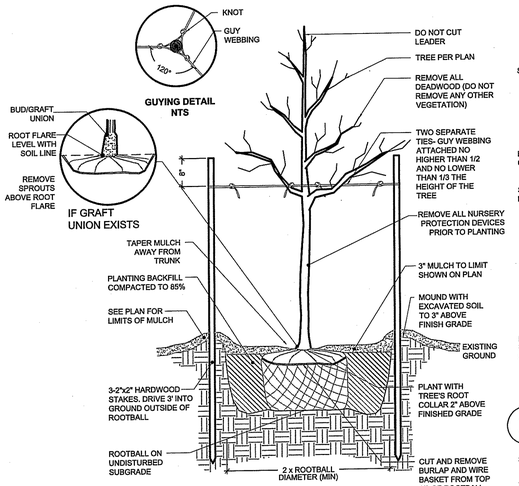
PROJECT NO.:	15093.01
DATE:	MAY 24, 2016
SCALE:	1"=30'-0
DESIGNED BY:	AI
CHECKED BY:	AI
DRAWN BY:	JL
APPROVED BY:	DLP

DRAWING TITLE:

PLANTING PLAN

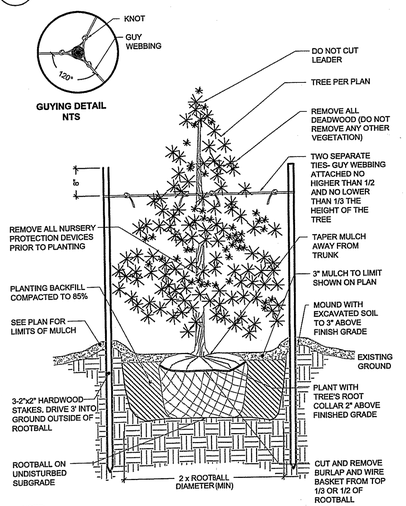
DRAWING NO.: L1.0

SHEET NO. 1 OF 2



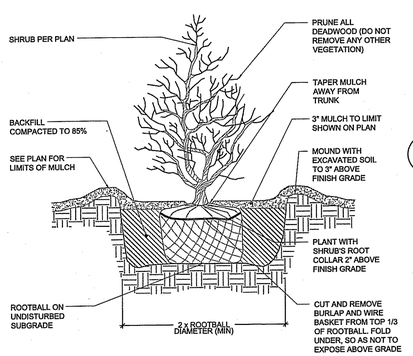
NOTE:
1. ALL TREES WITH A CALIPER SIZE GREATER THEN 3" SHALL BE STAKED.
ALL TREES SHALL BE SET SO THAT THE ROOT FLARE IS ABOVE EXISTING GRADE.
2. AFTER THE GUARANTEE PERIOD THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF STAKES AND GUY WEBBING.
3. ALL TREES NOT LOCATED WITHIN A LARGER MULCHED PLANTING BED SHALL RECEIVE A 5' DIAMETER MULCH BED AROUND THE BASE OF THE TREE. IN NO INSTANCE SHALL MULCH BE PILED UP AROUND THE ROOT FLARE.

1 DECIDUOUS TREE STAKING & PLANTING
SCALE: NOT TO SCALE

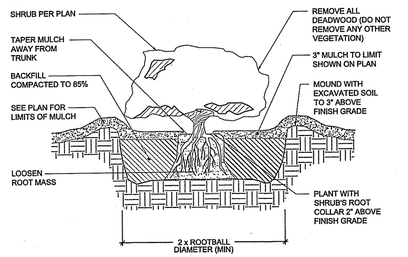


NOTE:
1. ALL TREES SHALL BE SET SO THAT THE ROOT FLARE IS ABOVE EXISTING GRADE.
2. AFTER THE GUARANTEE PERIOD THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF STAKES AND GUY WEBBING.
3. ALL TREES NOT LOCATED WITHIN A LARGER MULCHED PLANTING BED SHALL RECEIVE A 5' DIAMETER MULCH BED AROUND THE BASE OF THE TREE. IN NO INSTANCE SHALL MULCH BE PILED UP AROUND THE ROOT FLARE.

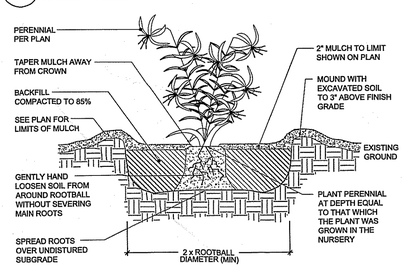
2 EVERGREEN TREE STAKING & PLANTING
SCALE: NOT TO SCALE



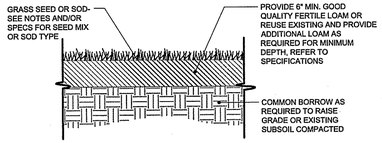
3 SHRUB PLANTING
SCALE: NOT TO SCALE



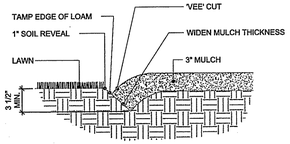
4 CONTAINER GROWN TREE & SHRUB PLANTING
SCALE: NOT TO SCALE



5 PERENNIAL GRASSES PLANTING
SCALE: NOT TO SCALE



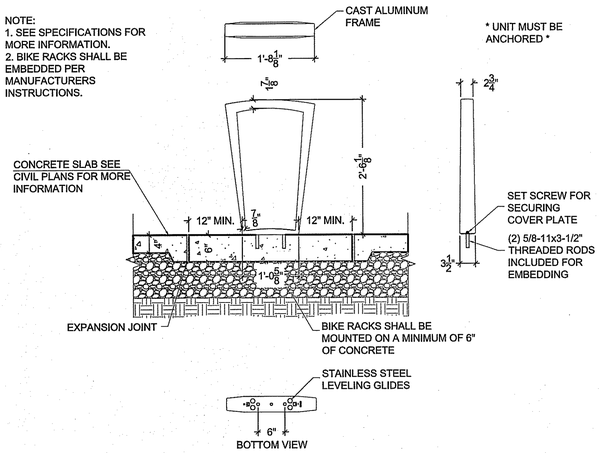
6 LOAM AND SEED OR LOAM AND SOD
SCALE: NOT TO SCALE



NOTE:1. LOCATE BEDLINE AS SHOWN ON PLAN.
2. LANDSCAPE ARCHITECT TO APPROVE ALL BEDLINES.

7 PLANTING BEDLINE EDGE
SCALE: NOT TO SCALE

NOTE:
1. SEE SPECIFICATIONS FOR MORE INFORMATION.
2. BIKE RACKS SHALL BE EMBEDDED PER MANUFACTURERS INSTRUCTIONS.



8 BIKE RACK
SCALE: 3/4"=1'

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APPROVED BY:	DLP

DRAWING TITLE:
PLANTING DETAILS

DRAWING NO.: L 1.1

SHEET NO. 2 OF 2

33 of 33