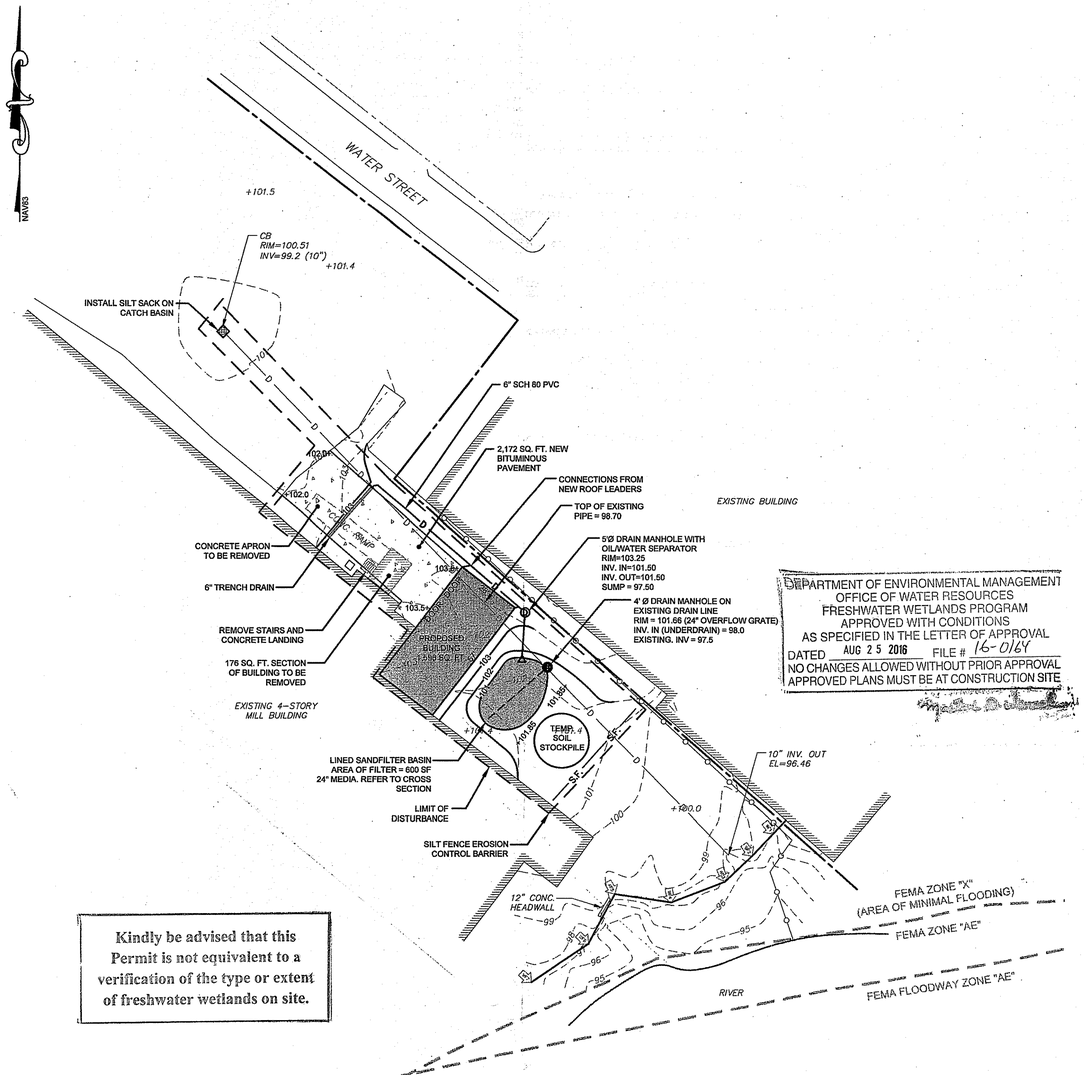

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED AUG 25 2016 FILE # 16-0164
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

GENERAL NOTES:

1. EXISTING CONDITIONS TAKEN FROM GROUND SURVEY PERFORMED BY NE&C IN APRIL OF 2016 AND SUPPLEMENTED BY EXISTING PROPERTY LINE DATA BY OTHERS.
2. EXISTING PROPERTY LINE IS APPROXIMATE AND IS NOT THE RESULT OF A CLASS I SURVEY.
3. NORTH ARROW REFERENCES NAV83.
4. ELEVATIONS REFERENCE AN ASSUMED DATUM.
5. AREA OF PROPOSED DEVELOPMENT LOCATED WITHIN FEMA FLOOD ZONE X PER FIRM 25021C0300E, MAP REVISED: 7/4/2011 AS SHOWN.
6. WETLAND FEATURE FLAGGED BY WETLANDS BIOLOGIST IN APRIL OF 2016.
7. ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING PLANS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM ALL AVAILABLE INFORMATION. (PLEASE CONTACT DIGSAFE PRIOR TO CONSTRUCTION AT 1-888-344-7233, AND/OR ALL LOCAL UTILITY COMPANIES)
8. SOIL TYPE IN THE VICINITY OF CONSTRUCTION IS 'Ur' URBAN LAND PER MAP 005 OF THE RI SOIL SURVEY.
9. CLASS IV SOIL EVALUATION PERFORMED IN THE VICINITY OF THE PROPOSED DRAINAGE SYSTEM BY A LICENSED RI EVALUATOR. DEPTH TO SEASONAL HIGH WATER TABLE WAS DETERMINED TO BE 10' FROM EXISTING GRADE.

DRAINAGE NOTES:

1. ALL PROPOSED DRAIN PIPES ARE SCH 80 PVC UNLESS OTHERWISE SPECIFIED.
2. PIPING FROM PROPOSED ROOF DOWNSPOUTS TO BE COORDINATED BY THE ARCHITECT AND CONTRACTOR.
3. SURFACE DRAINAGE SYSTEM SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAIL PROVIDED.
4. MAINTENANCE OF THE STORMWATER SYSTEM DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE SITE CONTRACTOR. ONCE CONSTRUCTION OF THE SITE IS COMPLETE, MAINTENANCE OF THE SYSTEM SHALL BE THE RESPONSIBILITY OF THE OWNER. MAINTENANCE OF THE UNDERGROUND INFILTRATION SYSTEM SHALL BE COMPLETED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

LEGEND:

——— – ———	APPROXIMATE PROPERTY LINE
– – – –100– – – –	TOPOGRAPHIC CONTOUR
———	EDGE OF FRESHWATER WETLANDS
———	EDGE OF WATER
—o—o—o—	FENCE LINE
+100.0	SPOT ELEVATION
———D———	DRAIN LINE
WF	WETLAND FLAG
———100———	PROPOSED CONTOUR
———D———	PROPOSED DRAIN LINE
D	PROPOSED DRAIN MANHOLE
———S.F.———	PROPOSED SILT FENCE
— — — — —	PROPOSED LIMIT OF DISTURBANCE
+100.0	PROPOSED SPOT ELEVATION

WATER QUALITY CALCULATIONS

PROPOSED NEW IMPERVIOUS	AREA	WQ REQUIRED
- NEW ADDITION	1,596 SF	133 CF
- NEW PAVEMENT	2,172 SF	181 CF
TOTAL	3,768 SF	314 CF

PROPOSED WATER QUALITY DEVICES

WATER QUALITY IS PROVIDED BY A LINED SURFACE SAND FILTER. UNDERDRAIN OUTFLOW AND OVERFLOW WILL DISCHARGE VIA THE EXISTING STORMWATER INFRASTRUCTURE.

PRE-TREATMENT FOR THE SAND FILTER PROVIDED BY A DEEP SUMP STRUCTURE WITH OIL WATER SEPARATOR.

REFER TO ACCOMPANYING WATER QUALITY CALCULATIONS.

SOIL EROSION AND SEDIMENT CONTROL NOTES

1. CONSTRUCTION SEQUENCE

A. DO NOT BEGIN CONSTRUCTION UNTIL ALL LOCAL, STATE, AND FEDERAL PERMITS HAVE BEEN APPLIED FOR AND RECEIVED. CONTRACTOR/OWNER SHALL NOTIFY THE WOONSOCKET BUILDING OFFICIAL. IN ADVANCE OF HIS INTENT TO BEGIN CONSTRUCTION.

B. CONSTRUCTION TRAFFIC SHALL ENTER AND EXIT THE SITE VIA THE EXISTING PAVED ACCESS. PAVED ACCESS SHALL BE SWEPT ON A WEEKLY BASIS DURING WHILE THE SITE IS UNDERGOING EARTHWORK.

C. INSTALL SILT FENCES, SILT SACKS, CHECK DAMS AND/OR HAY BALES AS INDICATED ON THE DRAWINGS TO CONTROL EROSION AND PREVENT SEDIMENT CONTAMINATION OF DOWNSTREAM AREAS PRIOR TO ANY EARTH MOVING ACTIVITIES. EROSION CONTROLS SHALL BE IN PLACE BEFORE ANY OTHER SITE WORK IS UNDERTAKEN.

D. FLAG AREA OF INFILTRATION GALLEYS SUCH THAT CONSTRUCTION DISTURBANCE IS MINIMAL. REMOVE TREES AND VEGETATION ONLY WHERE NECESSARY. ANY STUMPS TO BE GROUND OR DISPOSED OF OFF SITE.

E. DEMOLISH EXISTING LOADING DOCK, STAIRS, AND CONCRETE APRON.

F. EXCAVATE AREA OF PROPOSED ADDITION IN ACCORDANCE WITH THE ARCHITECTURAL PLANS AND DETAILS. ONLY THOSE AREAS UNDER CONSTRUCTION WILL BE DISTURBED BY EARTHWORK. THE REMAINDER OF THE AREA OF CONSTRUCTION WILL NOT BE STRIPPED OR DISTURBED UNTIL CONTRACTOR IS DONE WITH THE ADDITION CONSTRUCTION AND READY FOR THE FINAL LAWN INSTALLATION.

G. TEMPORARY SOIL STOCKPILES SHALL BE PROTECTED WITH ADDITIONAL EROSION CONTROL MEASURES AS NECESSARY.

H ESTABLISH A VEGETATIVE GROWTH THAT MEETS THE APPROVAL OF THE BUILDING OFFICIAL. COMPLETE ANY AREAS OF LANDSCAPING IF DESIGNATED BY THE OWNER.

I. UPON COMPLETION OF CONSTRUCTION AND PRIOR TO REMOVAL OF EROSION & SEDIMENT CONTROLS, CONTRACTOR SHALL CONTACT THE WOONSOCKET BUILDING OFFICIAL FOR A FINAL INSPECTION.

J. MAINTAIN SITE IN ACCORDANCE WITH THE MAINTENANCE NOTES. EROSION CONTROLS MUST BE MAINTAINED AND REMAIN IN PLACE UNTIL THE LAWN HAS RECEIVED TWO (2) MOWINGS.

2. EARTHWORK NOTES:

A. DURING CONSTRUCTION AND THEREAFTER, EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED. ONLY THE SMALLEST PRACTICAL AREA OF LAND SHOULD BE EXPOSED AT ANY ONE TIME DURING DEVELOPMENT. WHEN LAND IS EXPOSED DURING DEVELOPMENT, THE EXPOSURE SHOULD BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME.

B. NO DRAINAGE AREA SHALL BE USED FOR STOCKPILES OR STORAGE OF MATERIALS OR EQUIPMENT.

C. ANY DISTURBED AREAS WHICH ARE TO BE LEFT TEMPORARILY AND WHICH WILL BE REGRADED LATER DURING CONSTRUCTION SHALL BE STABILIZED WITHIN FOURTEEN DAYS IN ACCORDANCE WITH TEMPORARY MEASURES IN THE VEGETATIVE PRACTICE NOTES.

D. AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOP SOIL TO REMOVE VEGETATION, ROOTS, AND ANY OTHER OBJECTIONABLE MATERIAL.

E. ALL FILL SHALL BE COMPACTED TO 95% MAX. DENSITY TO REDUCE EROSION, SLIPPAGE, SETTLEMENT SUBSIDENCE, OR OTHER RELATED PROBLEMS.

F. FILL INTENDED TO SUPPORT BUILDING STRUCTURES AND CONDUITS, ETC., SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL CODES AND SPECIFICATIONS.

G. ALL FILL SHALL BE PLACED IN LAYERS NOT TO EXCEED 12" IN THICKNESS FILLS.

H. FILL MATERIAL SHALL BE FREE OF BRUSH, RUBBISH, ROCKS, LOGS, STUMPS, BUILDING DEBRIS, AND OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.

I. FROZEN, SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIAL SHALL NOT BE INCORPORATED INTO FILLS.

J. FILL SHALL NOT BE PLACED ON A FROZEN FOUNDATION SUBGRADE.

K. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER.

L. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS OF FINISH GRADING IN ACCORDANCE WITH THE VEGETATIVE PRACTICE NOTES.

M. EXCESS QUANTITIES OF SOIL WILL BE REMOVED FROM SITE BY CONTRACTOR AND DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.

3. VEGETATIVE PRACTICE:

PERMANENT MEASURES:

A. EROSION CONTROL BLANKET SHALL BE INSTALLED ON ANY SLOPES STEEPER THAN 3:1 (SEE PLAN).

B. A MINIMUM OF 4" OF LOAM SHALL BE INSTALLED. THE LOAM SHALL BE GRADED TO A SMOOTH CONDITION AND STONES AND OTHER OBJECTS LARGER THAN 2" SHALL BE REMOVED.

C. THE FOLLOWING SEEDING MIXTURE SHALL BE APPLIED AT THE INDICATED RATE UNLESS OTHERWISE APPROVED BY THE WOONSOCKET BUILDING OFFICIAL.

RED FESCUE:	40 LBS/ACRE
KENTUCKY BLUEGRASS:	40 LBS/ACRE
PERENNIAL RYEGRASS:	20 LBS/ACRE

D. HAY MULCH SHALL BE APPLIED AT THE RATE OF 1.5 TONS/ACRE

TEMPORARY MEASURES (FOR TEMPORARY PROTECTION OF DISTURBED AREAS)

D. LIMESTONE AND FERTILIZER SHALL BE APPLIED AT THE FOLLOWING RATE:
LIMESTONE: 3 TONS/ACRE
FERTILIZER: (10-10-10): 600 LBS/ACRE

E. SEED SHALL BE APPLIED AT THE FOLLOWING RATE:
WINTER RYE: 100 LB/ACRE

F. HAY MULCH SHALL BE APPLIED AT THE RATE OF 1.5 TONS/ACRE.

4. SHORT-TERM MAINTENANCE

DURING THE PERIOD OF CONSTRUCTION AND/OR UNTIL LONG TERM VEGETATION IS ESTABLISHED, THE EROSION CONTROL MEASURES SHALL BE INSPECTED.

A. SILT FENCES SHALL BE INSPECTED AS INDICATED IN THE PLAN DETAILS. AT A MINIMUM THE SILT FENCING SHALL BE INSPECTED AND REPAIRED ONCE A WEEK AND/OR IMMEDIATELY FOLLOWING A SIGNIFICANT RAINFALL OR SNOWMELT. SEDIMENT TRAPPED BEHIND THE BARRIERS SHALL BE EXCAVATED WHEN IT REACHES A DEPTH OF 6" AND REGRADED ON THE SITE.

B. ANY EROSION CONTROL BLANKETS SHALL BE INSPECTED ON A WEEKLY BASIS.

C. PAVED CONSTRUCTION ACCESS SHALL BE SWEPT ON A WEEKLY BASIS DURING EARTHWORK OPERATIONS.

D. SEEDED AREAS SHALL BE FERTILIZED AND RESEEDED AS NECESSARY TO INSURE ESTABLISHMENT OF A VEGETATIVE GROWTH THAT MEETS THE APPROVAL OF REVIEWING ENTITIES.

E. DURING CONSTRUCTION, THE SUBSURFACE GALLEY DRAIN MANHOLE SUMP SHALL BE INSPECTED WEEKLY FOR THE PRESENCE OF SEDIMENTS. SHOULD THE AVERAGE DEPTH OF SEDIMENT EXCEED 2 INCHES AT THE BOTTOM OF THE SUMP, THE SEDIMENT SHALL BE REMOVED AND DISPOSED OF IN A MANNER CONSISTENT WITH THE MANDATES OF THE RIDEM.

F. MAINTENANCE OF THE STORMWATER SYSTEM DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE SITE CONTRACTOR. ONCE CONSTRUCTION OF THE SITE IS COMPLETE, MAINTENANCE OF THE SYSTEM SHALL BE THE RESPONSIBILITY OF THE OWNER.

5. LONG TERM STORMWATER MAINTENANCE PLAN

A. SAND FILTER MAINTENANCE:
a. GRASSES AND/OR SPECIFIED VEGETATION SHALL BE PLANTED AROUND AND WITHIN THE SAND FILTER IMMEDIATELY FOLLOWING CONSTRUCTION TO STABILIZE SLOPES AND PREVENT EROSION.
b. THE FILTER SHOULD BE INSPECTED FOLLOWING AT LEAST THE FIRST TWO PRECIPITATION EVENTS OF AT LEAST 1.0 INCH TO ENSURE THAT THE SYSTEM IS FUNCTIONING PROPERLY. THEREAFTER, THE FILTER SHOULD BE INSPECTED AT LEAST ANNUALLY AND AFTER STORM EVENTS OF GREATER THAN OR EQUAL THE 1-YEAR, 24-HOUR TYPE III PRECIPITATION EVENT (2.7 INCHES). SEDIMENTS COLLECTED WITHIN THE TOP STRATA OF THE FILTER SHALL BE GRASSES AND/OR SPECIFIED VEGETATION SHALL BE PLANTED AROUND AND WITHIN EACH SAND FILTER IMMEDIATELY FOLLOWING CONSTRUCTION TO STABILIZE SLOPES AND PREVENT EROSION.
c. THE FOLLOWING SHALL ALSO BE COMPLETED ON AN ANNUAL BASIS:
i. THE SLOPES OF THE FILTER SHOULD BE INSPECTED FOR EROSION AND GULLYING.
ii. REINFORCE ANY EXISTING RIPRAP IF IT IS FOUND TO BE DEFICIENT, EROSION IS PRESENT AT THE OUTLET STRUCTURES, OR ANY EXISTING RIPRAP HAS BEEN COMPROMISED.
iii. THE OUTLET STRUCTURE SHALL BE INSPECTED FOR LEAKY JOINTS OR CRUSHED LINES. UNDERDRAIN AND OUTLET PIPE SHALL BE CLEAN AND FREE OF MATERIALS THAT CAN REDUCE FLOW.
iv. ANY AREAS WITHIN THE EXTENTS OF THE FILTER THAT ARE SUBJECT TO EROSION OR GULLYING SHOULD BE REPLENISHED WITH THE ORIGINAL DESIGN MATERIAL AND RE-VEGETATED ACCORDING TO DESIGN DRAWINGS. SLOPE PROTECTION MATERIAL SHOULD BE PLACED IN AREAS PRONE TO EROSION. EMBANKMENT STABILITY SHOULD BE INSPECTED FOR SEEPAGE AND BURROWING ANIMALS.
v. MOW THE GRASS AROUND THE PERIMETER OF AND WITHIN THE FILTER, SEED BARE AREAS, AND REMOVE LITTER AND DEBRIS AT LEAST THREE TIMES PER GROWING SEASON TO MAINTAIN MAXIMUM GRASS HEIGHTS LESS THAN TWELVE INCHES. REMOVE ANY INVASIVE VEGETATION WITHIN THE EXTENTS OF THE FILTERS. ANY INVASIVE VEGETATION ENCROACHING UPON THE PERIMETER OF THE FILTER SHOULD BE PRUNED OR REMOVED IF IT IS PROHIBITING ACCESS TO THE FILTER, COMPROMISING SIGHT VISIBILITY, AND/OR COMPROMISING THE ORIGINAL DESIGN INTENT. IF DEAD OR DYING GRASS ON THE BOTTOM IS OBSERVED, CHECK TO ENSURE THAT WATER INFILTRATES WITHIN TWO DAYS FOLLOWING STORMS.
vi. SILT/SEDIMENT SHOULD BE REMOVED FROM THE FILTER BED ANNUALLY, WHEN ACCUMULATION EXCEEDS 1 INCH, OR WHEN THE FILTERING CAPACITY DIMINISHES SUBSTANTIALLY. IF STANDING WATER IS OBSERVED MORE THAN 48 HOURS AFTER A STORM EVENT, THEN THE TOP 6 INCHES OF SAND SHOULD BE REMOVED AND REPLACED. IF DISCOLORED OR CONTAMINATED MATERIAL IS FOUND BELOW THIS REMOVED SURFACE THEN THAT MATERIAL SHOULD ALSO BE REMOVED AND REPLACED UNTIL ALL CONTAMINATED SAND HAS BEEN REMOVED FROM THE FILTER MEDIA. THE SAND SHOULD BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

B. CONVEYANCE STRUCTURE MAINTENANCE:
a. ALL INLET / OUTFLOW PIPES ARE TO BE INSPECTED AT LEAST THREE TIMES IN THE FIRST SIX MONTHS OF OPERATION. EVIDENCE OF CLOGGING, OR RAPID RELEASE OF FLOW SHALL BE REPORTED TO THE PROJECT ENGINEER AND REMEDIED IMMEDIATELY.
b. CONVEYANCE PIPES SHOULD BE INSPECTED BIANNUALLY. ANY STRUCTURAL FAULTS SHOULD BE REPAIRED AS NECESSARY FOR PROPER FUNCTION OF THE STRUCTURE.
c. ROOF RUNOFF STRUCTURES SUCH AS GUTTERS AND DOWNSPOUTS SHOULD BE CLEAN AND FREE OF OBSTRUCTIONS THAT REDUCE FLOW. A REGISTERED PROFESSIONAL ENGINEER SHOULD BE CONSULTED IF NECESSARY TO DETERMINE WHETHER A STRUCTURE HAS BEEN COMPROMISED.

GRAPHIC SCALE

30 0 15 30 60 120

(in feet)
1 inch = 30 feet

NORTHEAST ENGINEERS & CONSULTANTS, INC.

SITE/CIVIL
LAND PLANNING
WATERFRONT
SURVEYING
GEOTECHNICAL
ENVIRONMENTAL
TRANSPORTATION
STRUCTURAL

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55 JOHN CLARKE ROAD MIDDLETOWN RHODE ISLAND 02842
PHONE (401) 849-0810 FAX (401) 846-4169
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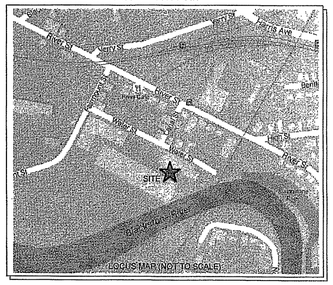

No.	Revision	Date	App.
1	DEM COMMENTS	08AUG16	

Designed By: JJR | Drawn by: JJR | Checked by: GES
Scale: 1"=30' | Date: 31MAY16

Project Title:

84 FAIRMOUNT STREET
A.P. 97 LOT 9
WOONSOCKET, RHODE ISLAND

Client/Owner:
FAIRMOUNT REALTY
84 FAIRMOUNT STREET
WOONSOCKET, RI

Issued for:
RIDEM

Drawing Title:
PROPOSED SITE PLAN

Environmental Management
AUG 10 2016
Office of Water Resources

JEREMY J. ROSA
No. 9826
8-10-16
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Drawing Number: C-1
Sheet 1 of 2
Project Number: 16058.0
Survey Index: – –

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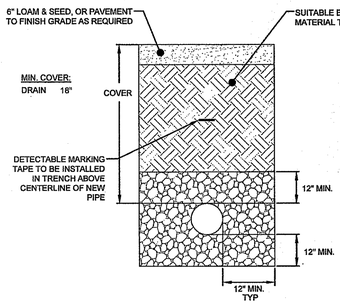
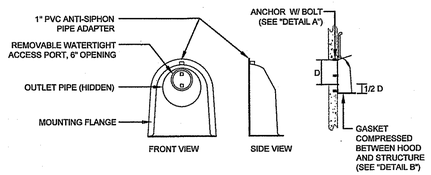


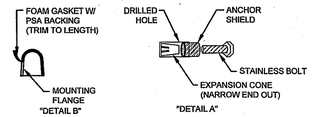
TRENCH NOTES:

1. UNSUITABLE MATERIAL SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 12-INCHES BELOW THE DESIGN INVERT ELEVATION.
2. TRENCH PROTECTION SHALL BE REQUIRED IN ACCORDANCE WITH OSHA REGULATIONS, AND AS OTHERWISE REQUIRED TO PROTECT UTILITIES, ROADWAYS, AND ADJACENT STRUCTURES.
3. DRAIN PIPES SHALL BE LAID BEGINNING AT THE DOWNSTREAM END OF THE PIPE LINE.
4. ALL DRAIN PIPES SHALL BE ADS-N12 OR SCH 40 PVC UNLESS OTHERWISE INDICATED.
5. BACKFILL MATERIAL SHALL BE PLACED IN LAYERS NOT TO EXCEED 12" IN HEIGHT WHEN INSTALLED UNDER LANDSCAPED AREAS ONLY. INSTALLATIONS UNDER PAVEMENT REQUIRE BACKFILL MATERIAL TO BE PLACED IN LAYERS NOT TO EXCEED 6" IN HEIGHT. THESE LAYERS SHALL BE COMPACTED TO 95% MAXIMUM DENSITY (AASHITO T180). SUITABLE BACKFILL SHALL BE FREE OF LOAM, CLAY, ORGANIC MATTER AND PARTICLES LARGER THAN 2 INCHES IN DIAMETER.
6. DRAINAGE PIPE TRENCHES SHALL BE BEDDED WITH CRUSHED STONE OR SCREENED GRAVEL, THESE MATERIALS MUST NOT CONTAIN PARTICLES LARGER THAN 3/4".

DRAIN TRENCH DETAIL
SCALE:NOT TO SCALE



CONFIGURATION DETAIL

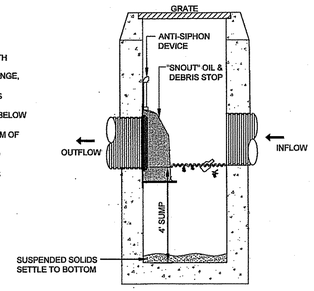


INSTALLATION NOTE:
POSITION HOOD SUCH THAT BOTTOM FLANGE IS A DISTANCE OF 1/2 OUTLET PIPE DIAMETER (MIN.) BELOW THE PIPE INVERT. MINIMUM DISTANCE FOR PIPES < 12" I.D. IS 6".

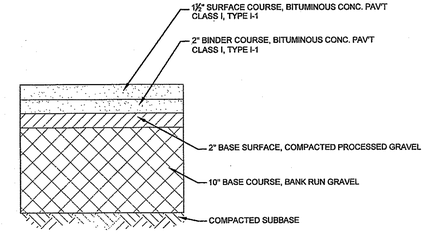
NOTES:

1. ALL HOODS AND TRAPS FOR CATCH BASINS AND WATER QUALITY STRUCTURES SHALL BE AS MANUFACTURED BY: BEST MANAGEMENT PRODUCTS, INC.
   53 MT. ARCHER RD.
   LYME, CT 06371
   (860) 434-0277, (860) 434-3195 FAX
   TOLL FREE: (800) 504-8008 OR (888) 354-7585
   WEB SITE: www.bmpinc.com
   OR PRE-APPROVED EQUAL
2. ALL HOODS SHALL BE CONSTRUCTED OF A GLASS REINFORCED RESIN COMPOSITE WITH ISO GEL COAT EXTERIOR FINISH WITH A MINIMUM 0.125" LAMINATE THICKNESS.
3. ALL HOODS SHALL BE EQUIPPED WITH A WATERTIGHT ACCESS PORT, A MOUNTING FLANGE, AND AN ANTI-SIPHON VENT AS DRAWN. (SEE CONFIGURATION DETAIL)
4. THE SIZE AND POSITION OF THE HOOD SHALL BE DETERMINED BY OUTLET PIPE SIZE AS PER MANUFACTURER'S RECOMMENDATION.
5. THE BOTTOM OF THE HOOD SHALL EXTEND DOWNWARD A MINIMUM DISTANCE OF 24" BELOW THE OUTLET PIPE INVERT. INSTALL PVC RISER AS NECESSARY.
6. THE ANTI-SIPHON VENT SHALL EXTEND ABOVE HOOD BY MINIMUM OF 3" AND A MAXIMUM OF 24" ACCORDING TO STRUCTURE CONFIGURATION.
7. THE SURFACE OF THE STRUCTURE WHERE THE HOOD IS MOUNTED SHALL BE FINISHED SMOOTH AND FREE OF LOOSE MATERIAL.
8. THE HOOD SHALL BE SECURELY ATTACHED TO STRUCTURE WALL WITH 3/8" STAINLESS STEEL BOLTS AND OIL-RESISTANT GASKET AS SUPPLIED BY MANUFACTURER. (SEE INSTALLATION DETAIL)
9. INSTALLATION INSTRUCTIONS SHALL BE FURNISHED WITH MANUFACTURER SUPPLIED INSTALLATION KIT.
   INSTALLATION KIT SHALL INCLUDE: A. INSTALLATION INSTRUCTIONS
   B. PVC ANTI-SIPHON VENT PIPE AND ADAPTER
   C. OIL-RESISTANT CRUSHED CELL FOAM GASKET WITH PSA BACKING
   D. 3/8" STAINLESS STEEL BOLTS
   E. ANCHOR SHIELDS
10. SIZE AND INVERTS OF INLET AND OUTLET PIPES VARIES. REFER TO MANUFACTURER'S SIZING TABLE FOR SNOUT DIMENSIONS.

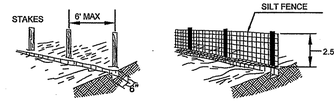
INSTALLATION DETAIL



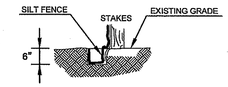
OIL / WATER HOOD DETAILS
SCALE: NOT TO SCALE



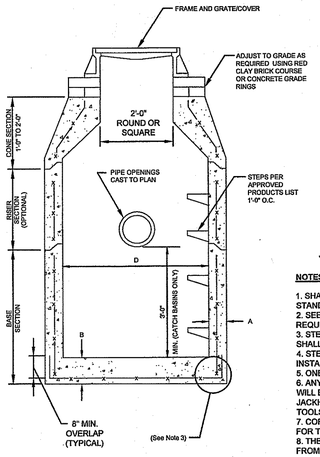
TYPICAL BITUMINOUS PAVEMENT SECTION
SCALE: NOT TO SCALE



1. SET 2-2" X 2" X 4' X 6" (MAX.) POSTS AND EXCAVATE A 6" X 6" TRENCH UPSLOPE ALONG THE LINE OF POSTS.
2. STAPLE SILT FENCE TO THE POSTS AND EXTEND INTO TRENCH AS SHOWN.
3. BACKFILL AND COMPACT THE EXCAVATED SOIL INTO THE TRENCH.



SILT FENCE DETAIL
SCALE: NOT TO SCALE



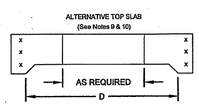


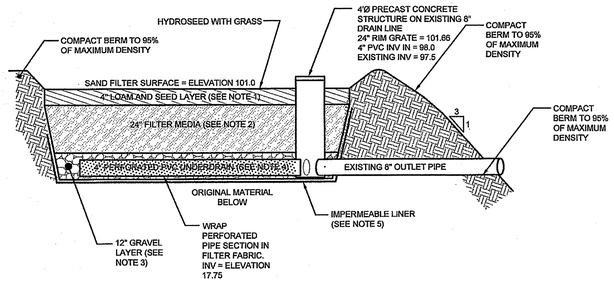
TABLE 1			
CATCH BASIN DIAMETER (D)	A	B	CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED*
4'-0"	5"	6"	0.12 SQ. IN./LIN. FT.
5'-0"	6"	7"	0.15 SQ. IN./LIN. FT.
6'-0"	7"	8"	0.18 SQ. IN./LIN. FT.
8'-0"	9"	8"	REFER TO MANUFACTURER

* FOR LONGITUDINAL (VERTICAL STANDING) REINFORCEMENT REFER TO ASTM C478, ITEM 8.1.2

NOTES:

1. SHALL BE ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATION
2. SEE TABLE 1 FOR STEEL REINFORCEMENT REQUIREMENTS.
3. STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT. (BOTH WAYS).
4. STEPS SHALL CONFORM TO STD. 6.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
5. ONE POUR MONOLITHIC BASE SECTION.
6. ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW-CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.
7. CORBEL MADE OF RED CLAY BRICK WILL BE PERMITTED FOR THE "CONE SECTION" OF THE 4'-0" CATCH BASIN ONLY.
8. THE CENTERLINE OF THE OPENING MUST BE WITHIN 2'-0" FROM THE STEPS
9. ALTERNATIVE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H-25 LOADING (SEE STD. 4.7.2).
10. ALTERNATIVE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.
11. REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.

PRECAST ROUND CATCH BASIN & DRAIN MANHOLE (RIDOT 4.4.0)
SCALE: NOT TO SCALE

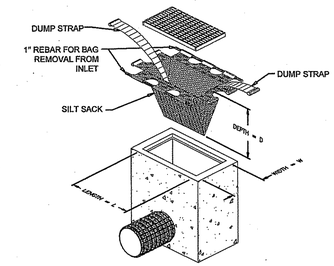


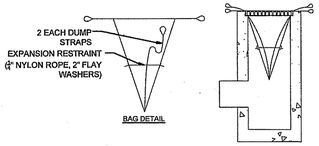
SAND FILTER NOTES:

1. SAND FILTER SHALL BE PLANTED WITH NEW ENGLAND WETMIX (WETLAND SEED MIX) BY NEW ENGLAND WETLAND PLANTS, INC. OR APPROVED EQUAL.
2. SAND FILTER SAND TO BE CLEAN AASHTO M-6 OR ASTM C-33 CONCRETE SAND (0.02" TO 0.04"). SAND SUBSTITUTIONS SUCH AS DIABASE AND GRAYSTONE #10 ARE NOT ACCEPTABLE. NO CALCIUM CARBONATED OR DOLOMITIC SAND SUBSTITUTIONS ARE ACCEPTABLE. NO ROCK DUST CAN BE USED AS SAND.
3. UNDERDRAIN GRAVEL SHALL CONFORM TO AASHTO M-43, 0.25" TO 0.75". MATERIAL MUST BE WASHED CLEAN GRAVEL.
4. UNDERDRAIN SHALL BE SCHEDULE 40 PVC PIPE CONFORMING TO ASTM D-1785 OR AASHTO M-278. PERFORATIONS SHALL BE 3/8" @ 6" ON CENTER. PIPE SHALL HAVE 3" OF GRAVEL OVER PIPE. PIPE TO BE WRAPPED IN GEOTEXTILE FABRIC CONFORMING TO FLOWRATE INDICATED IN NOTE 5.
5. IMPERMEABLE LINER MAY BE ONE OF THE FOLLOWING: (A) MIN. OF 8 INCHES OF CLAYSOIL (MINIMUM 15% PASSING THE #200 SIEVE AND A MAXIMUM PERMEABILITY OF 1 X 10^-5 CM/SEC), (B) A 30 MIL POLY-LINER (C) BENTONITE

LINED SAND FILTER CROSS SECTION
SCALE: NOT TO SCALE

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.





MAINTENANCE SCHEDULE:

1. EACH SILTSACK SHOULD BE INSPECTED AFTER EVERY MAJOR RAIN EVENT (~0.25" OF PRECIPITATION IN 24 HOURS).
2. IF THERE HAVE BEEN NO MAJOR EVENTS, SILTSACKS SHALL BE INSPECTED EVERY 2-3 WEEKS.
3. THE YELLOW RESTRAINT CORD SHOULD BE VISIBLE AT ALL TIMES. IF THE CORD IS COVERED WITH SEDIMENT, THE SILTSACK SHOULD BE EMPTIED.

SILT SACK DETAIL
SCALE: NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED AUG 25 2016 FILE # 16-0164
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NORTHEAST ENGINEERS & CONSULTANTS, INC.
A KNOWLEDGE CORPORATION®
55 JOHN CLARKE ROAD MIDDLETOWN RHODE ISLAND 02842
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SITE/CIVIL
LAND PLANNING
WATERFRONT
SURVEYING
GEOTECHNICAL
ENVIRONMENTAL
TRANSPORTATION
STRUCTURAL

No.	Revision	Date	App.
1	DEM COMMENTS	08AUG16	

Designed By:	JJR	Drawn by:	JJR	Checked by:	GES
Scale:	AS SHOWN	Date:		06JUN16	

Project Title:
84 FAIRMOUNT STREET
A.P. 97 LOT 9
WOONSOCKET, RHODE ISLAND

Client/Owner:
FAIRMOUNT REALTY
84 FAIRMOUNT STREET
WOONSOCKET, RI

Issued for:
RIDEM

Drawing Title:
PROPOSED DETAILS

Environmental Management
AUG 10 2016
Office of Water Resources

JEREMY J. ROSA
No. 9826
8/10/16
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Drawing Number: C-2
Sheet 2 of 2
Project Number: 16058.0
Survey Index: – –