

THERE ARE NO KNOWN WELLS EXISTING OR PROPOSED WITHIN 200' OF THE PROPOSED WELLS OTHER THAN SHOWN ON PLAN.

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Site Testing

R.I.D.E.M. DIVISION OF ISDS APPROVAL
 a. GROUND WATER VERIFICATION NO. 9630-0424 DATE: 11/04/03
 b. SITE SUITABILITY APPROVAL NO. NA DATE: NA
 SITE TESTING DATE OF EXCAVATION: 11/24/03
 GROUNDWATER TABLE DESIGN SOIL CATEGORY 3
 TH - 1 3.0 GAL/SF/DAY LOADING RATE
 SOIL STRATA:
 A 0-3' c,s,10yr 3/2,v,sl, 1-sbk, vfr
 Bw1 3-16' c,s,10yr 4/6,sl,1-sbk,vfr
 Bw2 16-28' c,w,10yr 5/6,sl,1-sbk,vfr
 C1 28-35' c,s,2.5y 5/4,co,0-m,vfr
 C2 35-45' c,s,2.5y 6/4,sl,0-m,vfr
 C3 45-54' c,s, 2.5y 5/4,sl, 0-m,vfr
 C4 54-72' c,s,2.5y 6/4,sl,0-m,vfr
 R 72'

LEDGE TESTS	
2004	2005
LT 04-1 = 68"	LT 1 = 52"
LT 04-2 = 72"	LT 2 = 54"
LT 04-3 = 70"	LT 3 = 78"
LT 04-4 = 70"	1998
LT 04-5 = 72"	LT 1 = 24"
	LT 2 = 48"

Minimum Lot Requirements

AREA	60,000 SQ.FT.
FRONTAGE	200 FEET
FRONT YARD	50 FEET
SIDE YARD	35 FEET
REAR YARD	60 FEET
CORNER SIDE YARD	NA FEET

Legend

- LEDGE TEST
- OBSERVATION HOLE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- WATER SERVICE LINE
- DRAINAGE LINE
- BENCHMARK

NOTES:

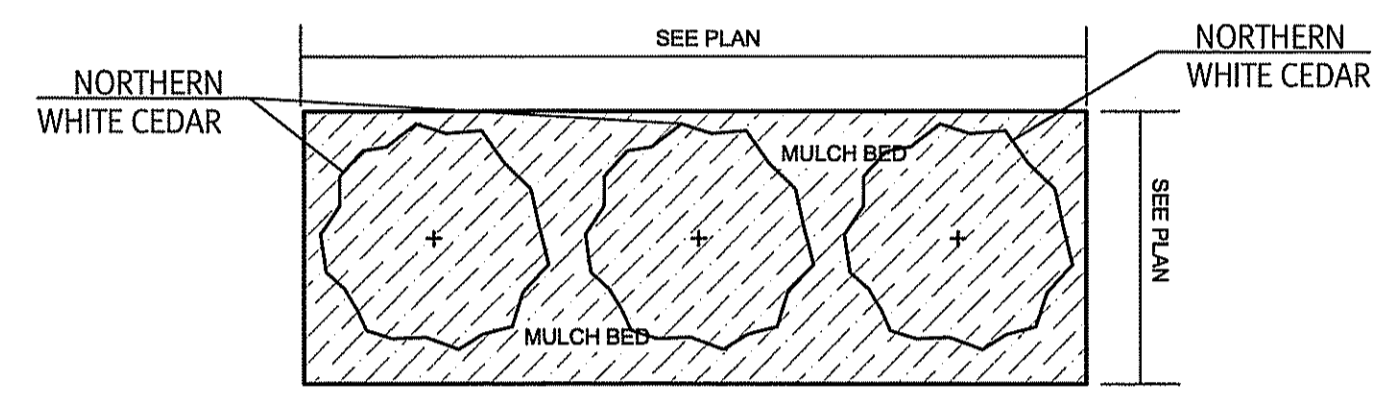
- BIORETENTION AREAS SHALL CORRESPOND WITH THE PROVIDED PLANTING PLAN.
- BIORETENTION AREAS SHALL BE HAND COMPACTED ONLY. NO MACHINES SHALL BE DRIVEN THROUGH OR OPERATED WITHIN THE BIORETENTION FOOTPRINT.
- BIORETENTION AREAS SHALL BE PROTECTED WITH SILT FENCE (RIDOT STD 9.2.0) OR APPROVED EQUAL ONCE BIORETENTION SOIL HAS BEEN INSTALLED. AREA IS TO REMAIN PROTECTED UNTIL ALL TRIBUTARY AREAS HAVE BEEN STABILIZED AND APPROVAL FROM THE DESIGN ENGINEER. NO CONSTRUCTION TRAFFIC IS ALLOWED ON BIORETENTION MEDIA.
- BIORETENTION AREAS DESIGNED AS AN INFILTRATION SYSTEM SHALL BE PROTECTED WITH SILT FENCE (RIDOT STD 9.2.0) OR APPROVED EQUAL AT THE START OF CONSTRUCTION. NO CONSTRUCTION TRAFFIC IS ALLOWED WITHIN BIORETENTION LIMITS THROUGHOUT CONSTRUCTION.
- THE MULCH LAYER SHALL BE SHREDDED HARDWOOD MULCH THAT IS WELL AGED STOCKPILED/STORED FOR AT LEAST 6 MONTHS), UNIFORM IN COLOR, AND FREE OF OTHER MATERIALS (WEED SEEDS, SOIL, ROOTS ETC.).

SIZING NOTE:

1. BIORETENTION AREA SIZED USING TABLE 7 OF THE STATE OF RHODE ISLAND STORMWATER MANAGEMENT GUIDANCE FOR INDIVIDUAL SINGLE-FAMILY RESIDENTIAL LOT DEVELOPMENT AND SOIL EVALUATION NUMBER 9630-0424

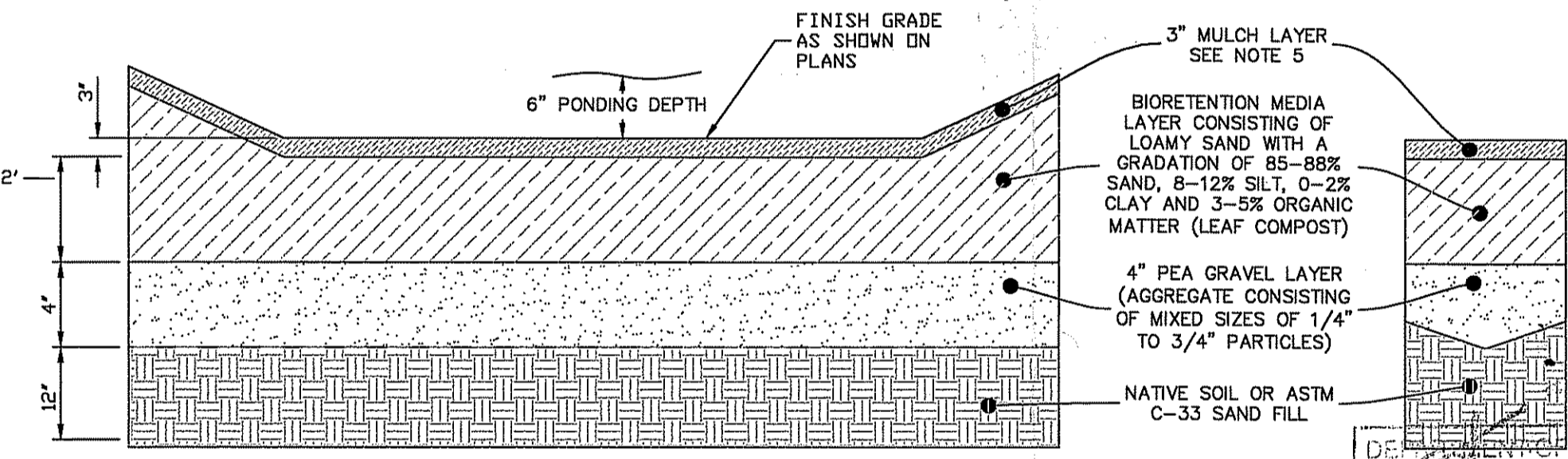
SIZING DATA

SOIL CONDITIONS	SANDY LOAM SOILS
BIO RETENTION DEPTH	6" DEPTH
DRAINAGE AREA	2,731 SF USE 2,800 SF
TOTAL AREA REQUIRED	420 SF
TOTAL AREA PROVIDED	427 SF



BIORETENTION PLANTING DETAIL

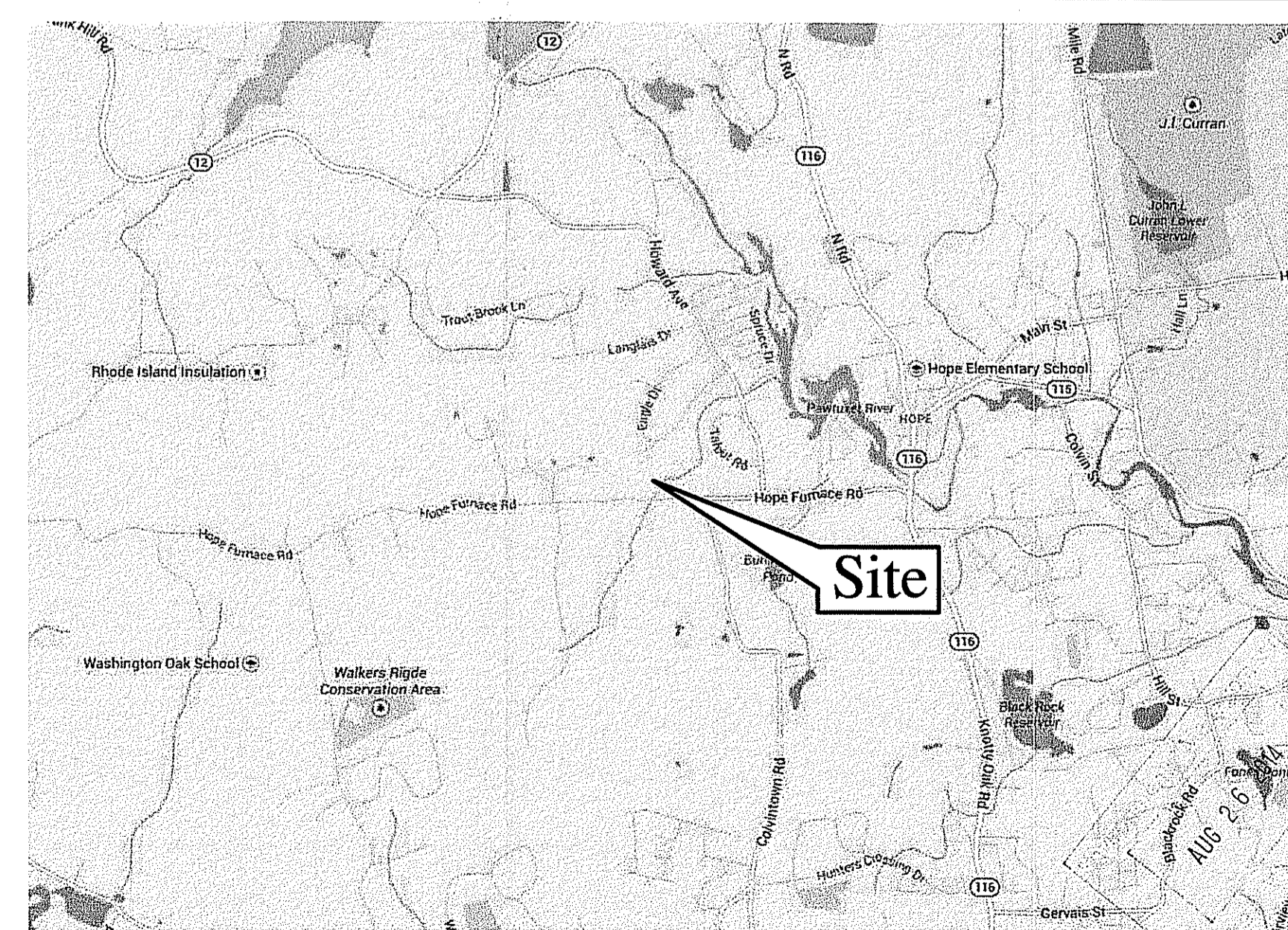
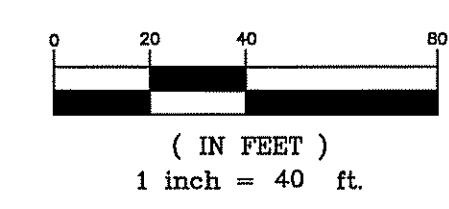
NOT TO SCALE



BIORETENTION CROSS SECTION DETAIL

NOT TO SCALE

DESIGNED BY: ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED SEP 23 2014 FILE # A-0155
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

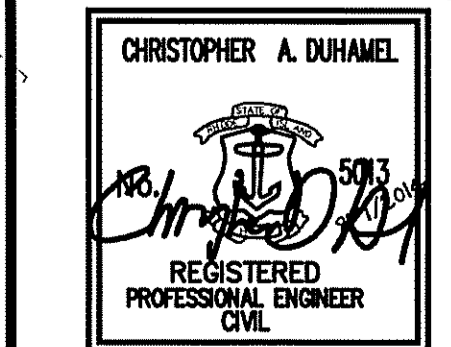


Locus Plan

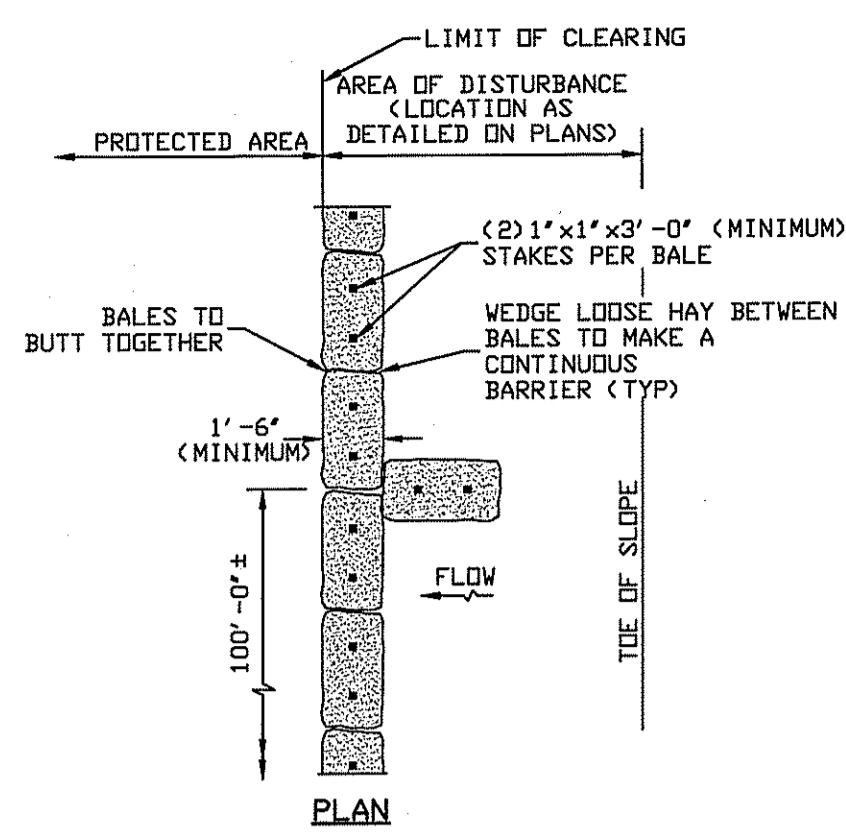
DiPrete Engineering Associates, Inc.
 ENGINEERS, SURVEYORS, AND PLANNING CONSULTANTS
 TWO STAFFORD COURT
 CRANSTON, RI 02920
 (401) 943-1000
 DATE: JANUARY 2004
 COPYRIGHT

DATE	DESCRIPTION	BY	DATE
8/7/14	WETLANDS SUBMISSION		
0			

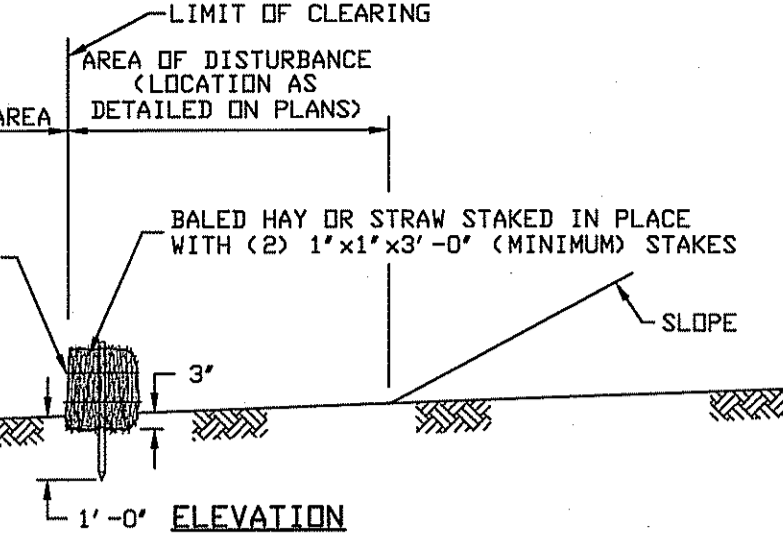
U.P. 30 HOPE FURNACE ROAD
 A.P. 48 LOT 68
 U.P. 30 HOPE FURNACE ROAD
 SCITUATE, RHODE ISLAND
 PREPARED FOR:
 W.F.D. ASSOCIATES, I.P. c/o The Picotone Real Estate Group
 75 Lambert Lind Highway
 Pawtucket, RI 02866
 (401) 732-3700



DEA NO.0161-187
 Sub. Lot 68

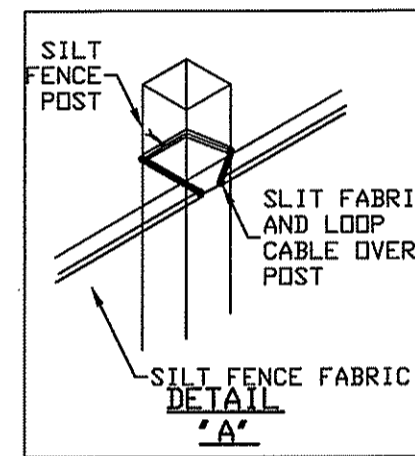


Baled Hay Erosion Check
NOT TO SCALE

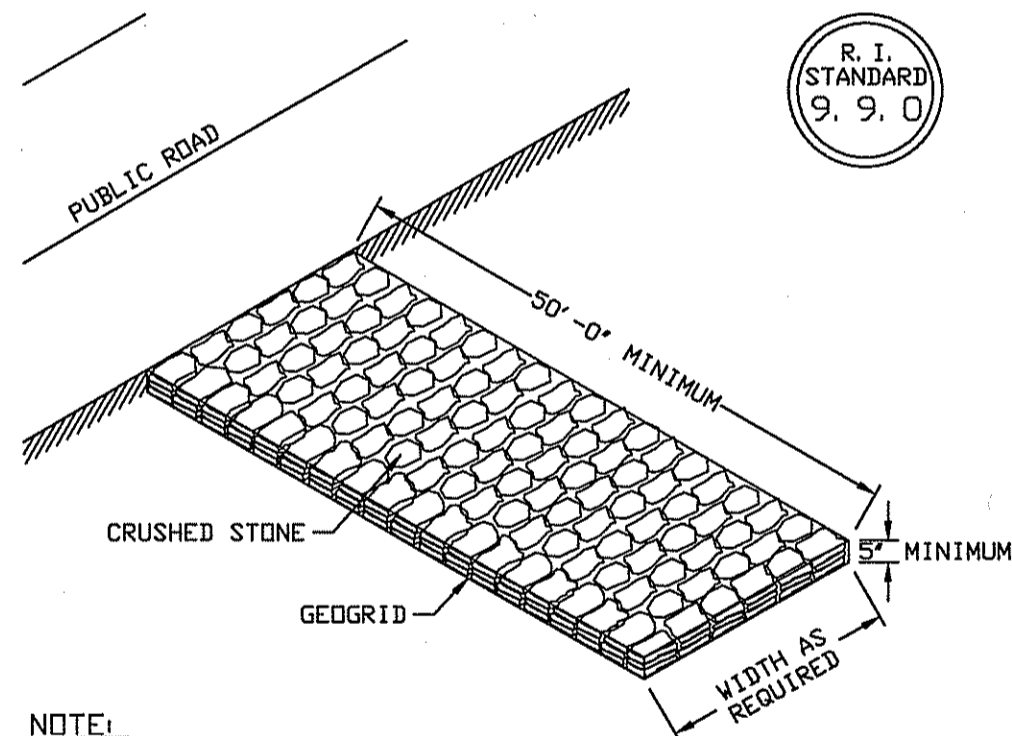
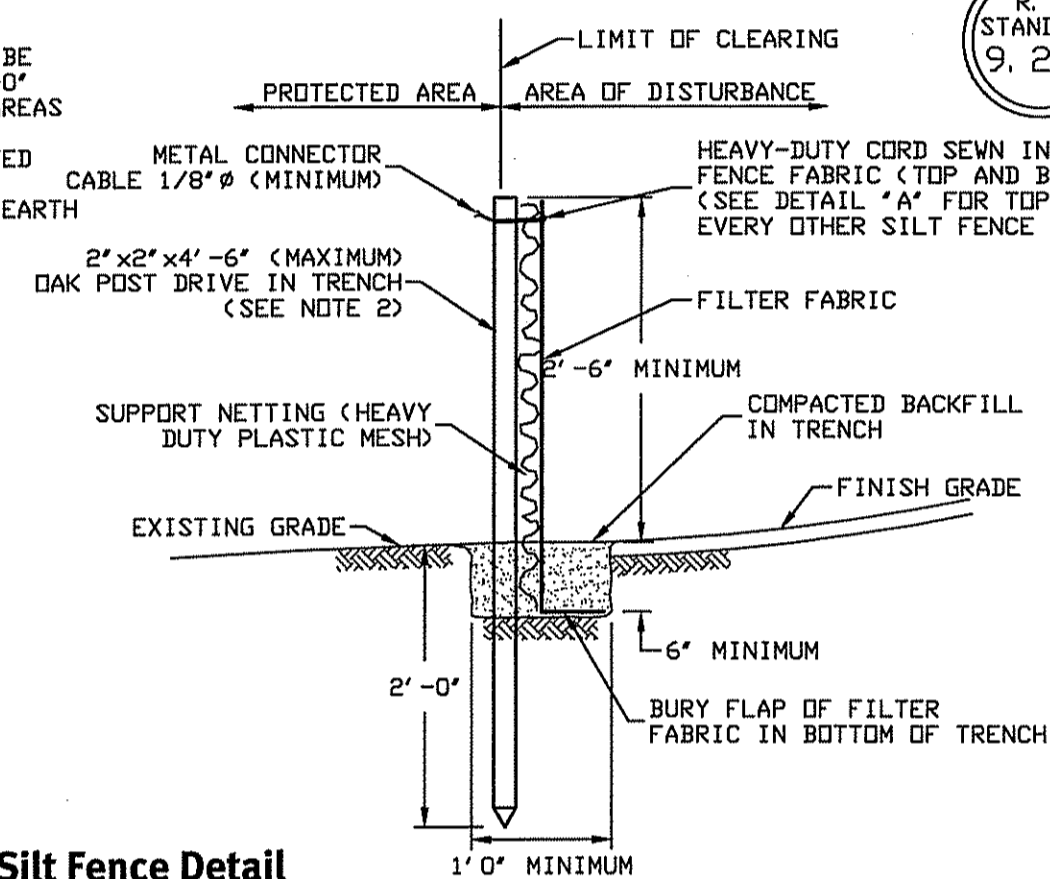


- NOTES:**
1. SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R. I. STANDARD SPECIFICATIONS.
 2. TO BE USED WHERE THE EXISTING GROUND SLOPES AWAY FROM THE HIGHWAY EMBANKMENT AS CALLED FOR ON PLANS.
 3. AT APPROXIMATE 100'-0" INTERVALS A BALE OF HAY IS TO BUTT PERPENDICULARLY.

- NOTES:**
1. SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R. I. STANDARD SPECIFICATIONS.
 2. 2" x 2" x 4'-6" (MAXIMUM) DAK POSTS FOR SILT FENCE SHALL BE LOCATED 8'-0" (MAXIMUM) O.C. IN WETLAND AREAS AND 4'-0" (MAXIMUM) O.C. IN WETLAND RAVIDE, GULLY OR DROP-OFF AREAS AS SHOWN ON PLANS.
 3. 1" x 1" x 4'-6" (MINIMUM) POSTS PERMITTED FOR PRE-FABRICATED SILT FENCE.
 4. SILT FENCE SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.



Silt Fence Detail
NOT TO SCALE



- NOTE:**
SHALL BE IN ACCORDANCE WITH SECTION 211 OF THE R. I. STANDARD SPECIFICATIONS.

Construction Access
NOT TO SCALE

MAINTENANCE: SHORT TERM

1. THE STONE STABILIZATION PADS AT THE SITE ENTRANCE SHALL BE MAINTAINED BY THE CONTRACTOR. THE MAINTENANCE SHALL INCLUDE TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND OR AS DIRECTED BY THE ENGINEER. ALL SEDIMENTS SPILLED, DROPPED, WASHED, OR TRACKED ON THE PUBLIC RIGHT OF WAY MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR.
2. ALL HAY BALES/SILT FENCE, TEMPORARY TREATMENTS (HAY, STRAW, ETC.), AND TEMPORARY PROTECTION SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION. HAY BALES/SILT FENCE SHALL BE INSPECTED BY THE CONTRACTOR WITHIN 24 HOURS AFTER EACH STORM EVENT OR EVERY 7 DAYS, WHICHEVER COMES FIRST. FOR UNDERMINING AND DETERIORATION, A STORM EVENT SHALL BE DEFINED AS 0.25 INCHES OF RAIN WITHIN A 24-HOUR PERIOD. THE HAY BALES/SILT FENCE SHALL BE REPAIRED OR REPLACED AS WARRANTED. THE CONTRACTOR SHALL CLEAN THE ACCUMULATED SEDIMENT IF HALF OF THE ORIGINAL HEIGHT OF THE HAY BALES/SILT FENCE BECOMES FILLED IN WITH SEDIMENT. THE HAY BALES/SILT FENCE SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED. FOLLOWING CONFIRMATION FROM THE PROJECT ENGINEER THAT AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER HAS BEEN ESTABLISHED THE HAY BALES/SILT FENCE SHALL BE REMOVED.
3. ALL STORM DRAIN INLETS TO BE PROTECTED WITH SILT SACK OR EQUAL UNTIL FINAL SITE STABILIZATION IS ATTAINED.
4. SPILLS AND LEAKS SHALL BE AVOIDED THROUGH FREQUENT INSPECTION OF EQUIPMENT AND MATERIAL STORAGE AREAS. HEAVY EQUIPMENT AND OTHER VEHICLES SHALL BE ROUTINELY INSPECTED FOR LEAKS AND REPAIRED AS NECESSARY. MATERIAL STORAGE AREAS SHALL BE ROUTINELY INSPECTED FOR LEAKY CONTAINERS, OPEN CONTAINERS, OR IMPROPER STORAGE TECHNIQUES THAT MAY LEAD TO SPILLS OR LEAKS. APPROPRIATE CLEANUP PROCEDURES AND SUPPLIES SHALL BE AVAILABLE ON-SITE AND SHOULD BE CLEARLY MARKED SO THAT ALL PERSONNEL CAN LOCATE AND ACCESS THESE SUPPLIES QUICKLY. SPILLS SHALL BE CLEANED UP IMMEDIATELY AND FOLLOWING PROPER RESPONSE PROCEDURES AND IN ACCORDANCE WITH ANY APPLICABLE REGULATORY REQUIREMENTS. AT NO TIME SHALL SPILLS BE CLEANED AND FLUSHED DOWN STORM DRAINS OR IN TO ANY ENVIRONMENTALLY SENSITIVE AREA (I.E. STREAM, POND, WETLAND).
5. VEHICLE MAINTENANCE, FUELING AND WASHING SHALL OCCUR OFF-SITE, OR IN DESIGNATED AREAS DEPICTED ON THE APPROVED PLANS OR APPROVED OF BY THE SITE OWNER. MAINTENANCE OR WASHING AREAS SHALL NOT BE WITHIN 50'-FEET OF THE STORM DRAIN SYSTEM. MAINTENANCE AREAS SHALL BE CLEARLY DESIGNATED, AND BERMS, SANDBARS, OR OTHER BARRIERS SHALL BE USED AROUND THE PERIMETER OF THE MAINTENANCE AREA TO PREVENT STORMWATER CONTAMINATION. CONSTRUCTION VEHICLES SHALL BE INSPECTED FREQUENTLY FOR LEAKS. REPAIRS SHALL TAKE PLACE IMMEDIATELY. DISPOSAL OF ALL USED OIL, ANTIFREEZE, SOLVENTS AND OTHER AUTOMOTIVE-RELATED CHEMICALS SHALL BE ACCORDING TO APPLICABLE REGULATIONS; AT NO TIME SHALL ANY MATERIAL BE WASHED DOWN THE STORM DRAIN OR IN TO ANY ENVIRONMENTALLY SENSITIVE AREA.
6. THE DETERIORATION OF CONTAMINATED NON-STORMWATER CANNOT BE DISCHARGED WITHOUT OBTAINING A RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT PERMIT. THE CONTRACTOR SHALL DO SO, IF DETERIORATION OF CONTAMINATED MATERIALS ANTICIPATED AT THE SITE, APPROPRIATE PERMITS MUST BE OBTAINED IN ADVANCE.
7. THE CONTRACTOR SHALL MAINTAIN ALL TOPSOIL STOCKPILES AND SEDIMENT BARRIERS THROUGHOUT CONSTRUCTION. EXTREME CARE SHALL BE TAKEN TO ENSURE THAT SEDIMENTS DO NOT SPILL OVER THE SEDIMENT BARRIER. HAY BALES OR SILT FENCE SHALL BE STAKED AROUND THE STOCKPILES.
8. ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEED, PROTECTED, AND MAINTAINED BY THE CONTRACTOR FOLLOWING FINAL GRADING AND CONSTRUCTION. THE CONTRACTOR SHALL CHECK ALL SEEDING AREAS REGULARLY TO SEE THAT A GOOD STAND OF VEGETATION IS MAINTAINED. THE CONTRACTOR MUST REPAIR OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND SHALL DO SO AT NO ADDITIONAL EXPENSE TO THE OWNER.
9. VEHICLE MAINTENANCE AND WASHING SHALL OCCUR OFF-SITE, OR IN DESIGNATED AREAS DEPICTED ON THE APPROVED PLANS OR APPROVED OF BY THE SITE OWNER.
10. DUST CONTROL PROCEDURES AND PRACTICES SHALL BE USED TO SUPPRESS DUST ON A CONSTRUCTION SITE DURING THE CONSTRUCTION PROCESS, AS APPLICABLE. DUST CONTROL MEASURES OUTLINED IN THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (AS AMENDED) OR THE RI DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (AS AMENDED) SHALL BE FOLLOWED.
11. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE AND INSPECTION OF THE BIORETENTION AREAS DURING AND UP TO A YEAR AFTER COMPLETION OF CONSTRUCTION AND ACCEPTANCE BY THE OWNER. THE OWNER IS RESPONSIBLE FOR INSPECTIONS AND MAINTENANCE THEREAFTER. THE CONTRACTOR'S MAINTENANCE/INSPECTION RESPONSIBILITIES SHALL INCLUDE RESEEDING ANY UNSTABILIZED AREAS WITHIN THE DRAINAGE BMPS AT NO ADDITIONAL EXPENSE TO THE OWNER, REMOVING ACCUMULATED SILT WHEN SEDIMENTS IN THE BASINS REACH THE HEIGHT SPECIFIED IN THE SEDIMENT VOLUME CALCULATIONS AND MAINTAINING THE GRASS TO A GROWING HEIGHT BETWEEN 2"-10". THE CONTRACTOR SHALL INSPECT RIP RAP PADS AFTER EACH STORM AND REPAIR AS NECESSARY. THE OWNER'S MAINTENANCE/INSPECTION RESPONSIBILITIES SHALL INCLUDE INSPECTION OF THE BASINS AND RIP RAP PADS SEMIANNUALLY AND AFTER MAJOR STORMS. IF REPAIRS ARE NEEDED, THEY SHALL BE CARRIED OUT IMMEDIATELY. THE OWNER SHALL MAINTAIN A GOOD VEGETATIVE COVER (GRASS BETWEEN 2"-10" OR VEGETATION AS SPECIFIED). THE BOTTOM OF THE BMPS SHALL BE INSPECTED MONTHLY AND ACCUMULATED SEDIMENTS SHALL BE REMOVED AS NEEDED OR EVERY 10 YEARS, WHICHEVER COMES FIRST.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTION, MAINTENANCE AND REPAIR TO ALL DRAINAGE STRUCTURES AND RELATED APPURTENANCES ON SITE DURING CONSTRUCTION AND IMMEDIATELY FOLLOWING CONSTRUCTION FOR A MAXIMUM OF ONE YEAR, OR UNTIL ACCEPTANCE BY THE ENGINEER AND THE OWNER. THE OWNER IS RESPONSIBLE FOR INSPECTIONS AND MAINTENANCE THEREAFTER.
13. THE CONTRACTOR SHALL MAINTAIN THE DRAINAGE NETWORK DURING CONSTRUCTION. THE ACCUMULATED SEDIMENTS IN THE CATCH BASINS SHALL BE REMOVED AND DRAINAGE PIPES FLUSHED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION. DURING CONSTRUCTION, THE CATCH BASIN SUMP SHALL BE CHECKED WEEKLY AND SEDIMENTS SHALL BE REMOVED IF THEY EXCEED 6" DEPTH.
14. DURING THE FIRST SIX (6) MONTHS OF OPERATIONS, INSPECTIONS SHALL BE ACCOMPLISHED IN EACH DRAINAGE BMP AFTER EVERY RAINFALL EVENT, TO CHECK FOR CLOGGING OR, CONVERSELY, TOO RAPID A STORMWATER RELEASE. FOLLOWING THE SIX (6) MONTHS, INSPECTIONS SHALL BE CONDUCTED, AT A MINIMUM, ANNUALLY.
15. IF STANDING WATER IS OBSERVED WITHIN THE DRAINAGE BMPS FOR MORE THAN THREE (3) DAYS AFTER A RAINFALL, THEN FAILURE OF THE SYSTEM MAY HAVE OCCURRED AND SHALL BE ADDRESSED THROUGH REPAIR OR REPLACEMENT.
16. IF STANDING WATER IS OBSERVED IN THE BIORETENTION AREAS FOR MORE THAN THREE DAYS AFTER A RAINFALL, THEN FAILURE OF THE INFILTRATION BASIN HAS OCCURRED AND SHALL BE ADDRESSED THROUGH EITHER REPAIR OR REPLACEMENT.
17. THE CONSTRUCTION SUPERINTENDENT SHALL HAVE OVERALL RESPONSIBILITY FOR THE MAINTENANCE PROGRAM DURING THE CONSTRUCTION PHASE AND FOR A PERIOD OF ONE YEAR AFTER CONSTRUCTION. THE SUPERINTENDENT SHALL SEE THAT THE APPROPRIATE WORKERS ARE AWARE OF THE PROVISIONS OF THE PLAN.
18. AFTER ACCEPTANCE OF THE SITE BY THE OWNER, THE OWNER SHALL HAVE OVERALL RESPONSIBILITY FOR IMPLEMENTING THE MAINTENANCE PROGRAM FOR THE STORMWATER MANAGEMENT PLAN.

ESTABLISHMENT OF VEGETATIVE COVER

1. SLOPES SHALL NOT BE LEFT UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON. THE CONTRACTOR SHALL INITIATE APPROPRIATE VEGETATIVE PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED, UNLESS THE ACTIVITY IS TO RESUME WITHIN TWENTY-ONE (21) DAYS.
 2. ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEED OR PROTECTED.
 3. THE TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS AND SHALL CONFORM WITH RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, M.20.
 4. THE TEMPORARY SEEDING DESIGN MIX SHALL BE COMPRISED OF THE FOLLOWING:
- | TYPE | % BY WEIGHT |
|--------------------|-------------|
| ANNUAL RYEGRASS | 40 |
| PERENNIAL RYEGRASS | 60 |
5. THE NEW ENGLAND EROSION CONTROL/RESTORATION SEED MIX SHALL BE COMPRISED OF THE FOLLOWING:
- | TYPE | % BY WEIGHT |
|-------------------------|-------------|
| UPLAND BENTGRASS | 1.0 |
| CREeping BENTGRASS | 1.0 |
| BEW BULLESTEM | 8.0 |
| NEW ENGLAND ASTER | 1.0 |
| FOX SEDGE | 8.0 |
| VIRGINIA WILD RYE | 28.0 |
| BONSEN LEAVED GOLDENROD | 1.0 |
| CREeping RED FESCUE | 24.0 |
| SOFT RUSH | 0.5 |
| SENSITIVE FERN | 1.0 |
| SWITCH GRASS | 8.0 |
| LITTLE BLUESTEM | 15.0 |
| GREEN BULLRUSH | 1.0 |
| WOOL GRASS | 0.5 |
| BLUE VERVAIN | 1.0 |
6. THE GENERAL PURPOSE SEED MIX SHALL BE URI #2 AND COMPRISED OF THE FOLLOWING:
- | TYPE | % BY WEIGHT |
|------------------------------|-------------|
| CREeping RED FESCUE | 40 |
| IMPROVED PERENNIAL RYE GRASS | 20 |
| IMPROVED KENTUCKY BLUEGRASS | 30 |
| KENTUCKY BLUEGRASS | 10 |
- EARLY SPRING OR LATE SUMMER SEEDING IS RECOMMENDED. SEEDING SCHEDULE SHOULD CONFORM WITH RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LO2.03.1 SEEDING DATES. PERMANENT SEEDING SHALL BE DURING THE APRIL 1 TO MAY 31 OR AUGUST 15 TO OCTOBER 15. TEMPORARY SEEDING MAY BE DONE ANYTIME BETWEEN MARCH 15 AND NOVEMBER 15 WITH THE APPROVAL OF THE ENGINEER OF RECORD. FERTILIZE AS REQUIRED BY SOIL TESTING TO COMPLEMENT OR UPGRADE EXISTING CONDITIONS. THE SEED MIX SHALL BE INOCULATED WITHIN 24 HOURS AND BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUMS FOR EACH VARIETY.
- 7. TEMPORARY TREATMENTS SHALL CONSIST OF HAY, STRAW, OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR FIBER LINING. TEMPORARY HAY MULCH TO BE TACKED IN PLACE WITH NYLON MESH NETTING. SIDE SLOPES OF BASINS SHALL BE TREATED WITH NORTH AMERICAN GREEN EROSION CONTROL BLANKETS SUCH AS SIS50 OR APPROVED EQUAL. THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER. HAY OR STRAW APPLICATIONS SHALL BE IN THE AMOUNT OF 2 TONS/ACRE.
- 8. ALL HAY BALES OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
- 9. ALL FILL SHALL BE THOROUGHLY COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 202.
- 10. STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 2:1 AND SHALL BE TEMPORARILY SEEDING AND/OR STABILIZED.
- 11. ALL AREAS PROPOSED TO BE VEGETATED THAT ARE DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY FOLLOWING FINISH GRADING. PERMANENTLY SEEDING AREAS SHALL BE PROTECTED DURING ESTABLISHMENT WITH MULCH. ALL SEEDING AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STANDARD IS MAINTAINED. WELL ESTABLISHED VEGETATION SHALL BE MAINTAINED. BARE OR ERODED AREAS SHALL BE IMMEDIATELY REPAIRED AND RESEED BY THE CONTRACTOR. ACTIVITIES SHALL BE CONFINED TO WITHIN THE LIMIT OF WORK AS SHOWN ON THE PLANS.
- 12. MAXIMUM PERMANENT GRADED SLOPE WITHIN THE SITE IS TO BE 3:1 UNLESS NOTED OTHERWISE.
- 13. THE CONSTRUCTION SUPERINTENDENT SHALL HAVE OVERALL RESPONSIBILITY FOR PLAN IMPLEMENTATION AND FOR SEEING THAT THE APPROPRIATE WORKERS ARE AWARE OF THE PROVISIONS OF THE PLAN. THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND SHALL DO SO AT NO ADDITIONAL EXPENSE TO THE OWNER.

NON-STRUCTURAL MEASURES

1. CONSTRUCTION TRAFFIC SHALL BE LIMITED TO THE ACCESS ROAD, UTILITY EASEMENTS AND AREAS TO BE GRADED.
2. TOPSOIL SHALL BE STRIPPED FROM AREAS TO BE GRADED AND STOCKPILED FOR LATER USE. STOCKPILE LOCATION SHALL BE SUBJECT TO APPROVAL BY THE PROJECT ENGINEER. A SEDIMENT BARRIER SHALL SURROUND ALL TOPSOIL STOCKPILES.
3. ALL TYPES OF WASTE GENERATED AT THE SITE SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH STATE LAW REGULATIONS. CONSTRUCTION DEBRIS SHALL BE DISPOSED OF DAILY TO AVOID EXPOSURE TO PRECIPITATION.
4. THE CONSTRUCTION SUPERINTENDENT SHALL HAVE OVERALL RESPONSIBILITY FOR PLAN IMPLEMENTATION OF NON-STRUCTURAL MEASURES AND FOR SEEING THAT THE APPROPRIATE WORKERS ARE AWARE OF THE PROVISIONS OF THE PLAN.
5. REFERENCE THE "RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" PREPARED BY THE USDA SOIL CONSERVATION SERVICE 1989, AS A GUIDE.

SEQUENCE OF CONSTRUCTION AND STAGING OF LAND DISTURBING ACTIVITIES

1. CONTRACTOR IS RESPONSIBLE FOR SOIL EROSION AND SEDIMENT CONTROL (SESC) ON-SITE. SEQUENCE OF CONSTRUCTION PROVIDED MAY BE MODIFIED AS FIELD CONDITIONS WARRANT WITH PRIOR APPROVAL FROM THE TOWN OR THEIR REPRESENTATIVE.
2. CONSTRUCTION TO BEGIN IN THE SPRING 2015 OR UPON RECEIPT OF ALL NECESSARY APPROVALS.
3. SURVEY AND STAKE THE DRAINAGE BMPS (BIO-RETENTION AREAS AND/OR OTHER DRAINAGE FEATURES), DRAIN LINES, WATER LINES, SEWER LINES AND LIMIT OF SEDIMENTATION BARRIERS/LIMIT OF DISTURBANCE.
4. PLACE SEDIMENTATION BARRIERS (HAY BALES OR SILT FENCE) AS SHOWN ON THE PLANS AND STAKED OUT IN THE FIELD. IN NO CASE IS THE LIMIT OF WORK TO EXTEND BEYOND THE SEDIMENTATION BARRIERS.
5. BEGIN CLEARING AND GRUBBING IN AREA OF THE BUILDING, DRAINAGE BMPS, PARKING AREAS AND OTHER AREAS AS INDICATED ON THE PLANS. TOPSOIL IS TO BE STRIPPED AND STOCKPILED IN APPROVED LOCATIONS. TOPSOIL STOCKPILES ARE TO BE PROTECTED BY A ROW OF SEDIMENTATION BARRIERS AND COVERED OR TEMPORARILY SEED.
6. INSTALL TEMPORARY SEDIMENTATION CONTROL MEASURES AND DEVICES AS WARRANTED. THE PROPOSED BASINS CAN BE USED DURING CONSTRUCTION. ALL TEMPORARY CONTROL DEVICES SHALL BE INSTALLED PER THE RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL HANDBOOK.
7. EXCAVATE AND GRADE THE PROPOSED BMPS, BUILDING, AND DRIVEWAY AREAS. INSTALL DRAINAGE STRUCTURES. THE DRAINAGE BMPS SHALL BE PERMANENTLY SEEDING FOLLOWING FINISH GRADING.
8. PLACE EROSION CONTROL AT THE DISCHARGE POINTS AND SEED THE DRAINAGE AREAS AND DISTURBED AREAS OUTSIDE OF THE AREA TO BE PAVED. INSTALL WATER, SEWER, ELECTRIC, TELEPHONE, CABLE, AND GAS IN ACCORDANCE WITH THE APPROVED FINAL CONSTRUCTION PLANS. SEED THE DISTURBED AREAS OUTSIDE OF THE PAVING LIMITS. THE BIORETENTION AREAS ARE TO BE PROTECTED FROM RUNOFF UNTIL ALL UNSTABILIZED AREAS ARE STABILIZED WITH VEGETATION.
9. PLACE COMPACTED GRAVEL FOUNDATION AND ROUGH GRADE THE DRIVEWAY AREA IN ACCORDANCE WITH THE SITE PLANS.
10. BEGIN CONSTRUCTION OF THE BUILDING FOUNDATION AND STRUCTURE.
11. PLACE BITUMINOUS ASPHALT PER SITE PLANS.
12. ONCE THE MAJORITY OF THE SITE IS STABILIZED THE DRAINAGE BMPS MAY BE BROUGHT ONLINE WITH THE APPROVAL OF THE DESIGN ENGINEER.
13. FINISH PERMANENT STABILIZATION. REPAIR DRAINAGE OUTLETS AND BIORETENTION AREAS AS STOCKPILED IN APPROVED LOCATIONS. TOPSOIL STOCKPILES ARE TO BE REMOVED FROM THE BOTTOM OF THE BASINS BEFORE THE APPLICATION OF TOPSOIL.
14. SWEEP THE DRIVEWAY TO REMOVE ALL SEDIMENTS.
15. ALL ACCUMULATED SEDIMENTS IN THE BIORETENTION AREA SHALL BE REMOVED.
16. REMOVE ALL TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES FOLLOWING VEGETATIVE ESTABLISHMENT OF ALL DISTURBED AREAS.
17. PRIOR TO ACTIVATION OF ALL UTILITIES (WATER, SEWER, AND STORM), UTILITY COMPANY AND TOWN ENGINEER TO BE NOTIFIED 48 HOURS IN ADVANCE TO SCHEDULE FINAL INSPECTION.

STRUCTURAL MEASURES

1. RUNOFF WATER QUALITY IS IMPROVED UTILIZING BIO-RETENTION AREAS. CONSTRUCTION OF THE BMPS SHALL BE SUPERVISED BY THE PROJECT ENGINEER. SIDE SLOPES WITHIN THE BIO-RETENTION AREAS SHALL BE 3:1 MAXIMUM, UNLESS NOTED OTHERWISE. ALL EMBANKMENTS OF THE BIO-RETENTION AREAS SHALL BE THOROUGHLY COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. A GRADUATED GAGE IS TO BE SET WITHIN THE BASIN TO MONITOR ACCUMULATED SEDIMENTS.
2. A STONE STABILIZATION PAD IS LOCATED AT THE SITE ENTRANCE TO REDUCE THE TRACKING OR FLOWING OF SEDIMENT ONTO THE PUBLIC RIGHT OF WAY.
3. HAY BALES OR SILT FENCE SHALL BE INSTALLED DOWNSTREAM OUTSIDE THE LIMITS OF ANY PROPOSED CONSTRUCTION AS SHOWN ON THE SITE PLANS AND PRIOR TO THE COMMENCEMENT OF THE PROPOSED ALTERATION.
4. TEMPORARY BERMS AND / OR SWALES SHALL BE USED DURING CONSTRUCTION TO DIRECT SURFACE TO TEMPORARY SEDIMENTATION BASINS TO CAPTURE AND TREAT THE MAXIMUM AMOUNT OF STORM WATER.
5. BIO-RETENTION AREAS ARE NOT TO BE USED AS SEDIMENTATION BASINS. THE CONTRACTOR SHALL CONSTRUCT ANY SEDIMENTATION BASINS WHICH ARE REQUIRED TO MEET ALL GUIDELINES IN THE RHODE ISLAND SOIL EROSION SEDIMENT CONTROL HANDBOOK.
6. THE CONSTRUCTION SUPERINTENDENT SHALL HAVE THE OVERALL RESPONSIBILITY FOR STRUCTURAL MEASURE IMPLEMENTATION AND FOR SEEING THAT THE APPROPRIATE WORKERS ARE AWARE OF THE PROVISIONS OF THE PLAN.
7. CONTRACTOR TO PROTECT POST DEVELOPMENT BMPS FROM RUNOFF UNTIL ALL TRIBUTARY AREAS ARE FULLY STABILIZED.
8. INFILTRATION BMPS SHALL BE STAKED PRIOR TO CONSTRUCTION. NO CONSTRUCTION OR EQUIPMENT IS ALLOWED WITHIN LIMITS OF INFILTRATION BMP. INFILTRATION BMPS CAN BE BROUGHT ONLINE ONCE ALL TRIBUTARY AREAS ARE FULLY STABILIZED.
9. REFERENCE THE "RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" PREPARED BY THE USDA SOIL CONSERVATION SERVICE 1989, AS A GUIDE.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
RI WETLANDS PROGRAM
RECEIVED FOR REVIEW AND COMMENT
IN THE LETTER OF APPROVAL
DATED SEP 23 2014 FILE # 14-0155
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

DiPrete Engineering Associates, Inc.
ENGINEERS, SURVEYORS, AND PLANNING CONSULTANTS
TWO STAFFORD COURT
CRANSTON, RI 02920
(401) 943-1000
DATE: JANUARY 2004
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DATE	DESCRIPTION
8/7/14	0 WETLANDS SUBMISSION

U.P. 30 HOPE FURNACE ROAD
A.P. 48 LOT 68
HOPE FURNACE ROAD
SCITUATE, RHODE ISLAND
PREPARED FOR:
W.F.D. ASSOCIATES, I.P. c/o The Pricer Real Estate Group
75 Lambert Lind Highway
Warwick, RI 02886
401-756-3786

CHRISTOPHER A. DUHAMEL
REGISTERED PROFESSIONAL ENGINEER
CIVIL

DEA NO.0161-187
Sub. Lot 68