

GENERAL NOTES:

1. WETLANDS SHOWN HEREIN WERE DELINEATED BY MASON & ASSOCIATES, INC. 771 PLAINFIELD PIKE, NORTH SCITUATE, RI.
2. THIS SITE DOES NOT LIE WITHIN ANY KNOWN AGRICULTURAL USE, SILVICULTURAL USE, NATURAL HERITAGE OR FARMLAND CONSERVATION AREAS.
3. THERE ARE NO KNOWN EASEMENTS OR RIGHTS OF WAY WITHIN OR ADJACENT TO THIS PARCEL.
4. THERE ARE NO KNOWN HISTORIC CEMETERIES WITHIN OR IMMEDIATELY ADJACENT TO THIS PARCEL.
5. HORIZONTAL DATUM IS BASED ON RHODE ISLAND STATE PLANE COORDINATES NAD 83 DATUM AND CONTOURS ON NAVD 88 DATUM.

REFERENCES:

1. PLAN ENTITLED "UTZ SUBDIVISION AP 127 LOT 1 532 PARADISE AVENUE MIDDLETOWN RHODE ISLAND SCALE 1"=30' DATED MAY 5, 2006 REVISED MAY 3, 2006 SHEET 2 OF 4 " BY NORTHEAST ENGINEERS & CONSULTANTS INC.

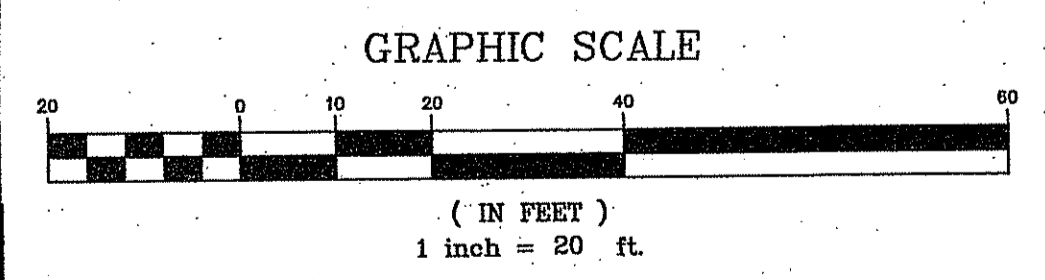
ZONING CRITERIA	
ZONING DISTRICT	R-30
MINIMUM LOT AREA	30,000 SQ. FT.
MINIMUM FRONT YARD SETBACK	40'
MINIMUM SIDE YARD SETBACK	20'
MINIMUM REAR YARD SETBACK	50'

NO.	DATE	DESCRIPTION	BY
2	1/3/2017	REVISED TITLE BLOCK	WCR
1	9/9/2016	ADDED STREAM & 100' BUFFER	WCR

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

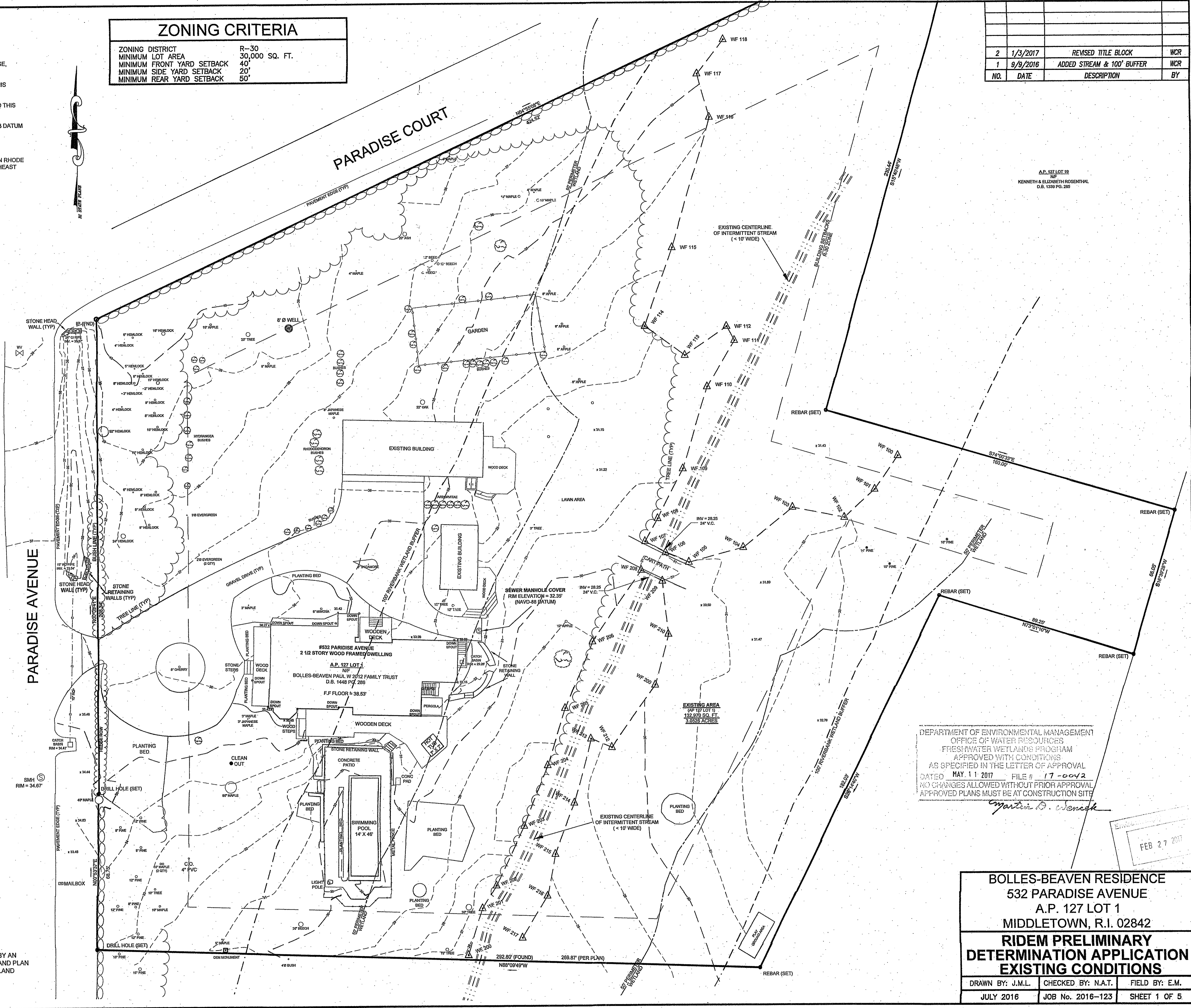
LEGEND
NOT TO SCALE

- BOUNDARY
- ABUTTER
- MAJOR CONTOUR
- MINOR CONTOUR
- STONEWALL
- TREELINE
- WETLANDS EDGE
- 50' PERIMETER WETLAND
- 100' RIVERBANK WETLAND
- STREAM
- BUILDING ENVELOPE
- DRAINAGE LINE
- ELECTRIC LINE
- IRON PIN
- BOUND
- DRILL HOLE



NORBERT A. THERIEN
No. 1739
PROFESSIONAL LAND SURVEYOR
NATIONAL Surveyors-Developers Inc.
42 Hamlet Ave., Woonsocket, R.I. (401) 769-7779

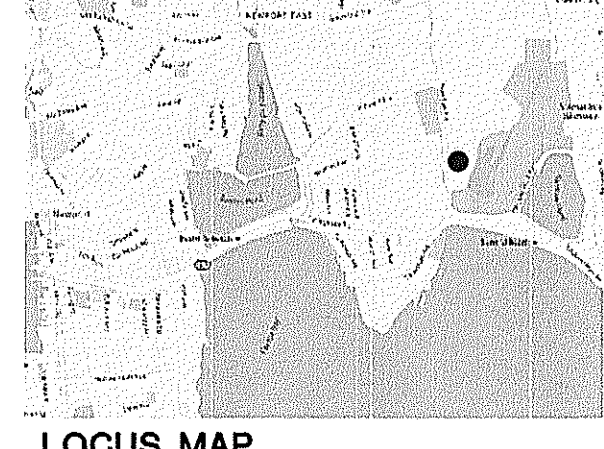
"I CERTIFY THAT THE INFORMATION SHOWN HEREON HAS BEEN OBTAINED BY AN ACTUAL SURVEY ON THE GROUND, THAT IT IS CORRECT AND THIS SURVEY AND PLAN CONFORM TO A CLASS "S" STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS."
BY: *Norbert A. Therien*
NORBERT A. THERIEN P.L.S.



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 11 2017 FILE # 17-00V2
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Matthew D. Wenzel

FEB 27 2017

BOLLES-BEAVEN RESIDENCE
532 PARADISE AVENUE
A.P. 127 LOT 1
MIDDLETOWN, R.I. 02842
RIDEM PRELIMINARY DETERMINATION APPLICATION EXISTING CONDITIONS
DRAWN BY: J.M.L. CHECKED BY: N.A.T. FIELD BY: E.M.
JULY 2016 JOB No. 2016-123 SHEET 1 OF 5



LOCUS MAP

GENERAL CONSTRUCTION NOTES:

- NOTIFY OWNERS AND LOCAL AUTHORITIES PRIOR TO ANY TYPE OF SITE PREPARATION OR CONSTRUCTION AT 1-800-322-4644.
- CONTRACTOR TO OBTAIN ALL PERMITS FOR CONSTRUCTION. LIMIT OF WORK LINE IS PROPERTY LINE UNLESS OTHERWISE INDICATED.
- LIMIT OF WORK IS PROPERTY LINE UNLESS OTHERWISE INDICATED.
- LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PRIOR TO CONSTRUCTION TO DETERMINE IN THE FIELD THE ACTUAL LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES WHETHER SHOWN ON THE PLANS OR NOT.
- THE CONTRACTOR SHALL CALL UTILITY PROTECTION SERVICE 12 HOURS PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT.
- CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT IF ADDITIONAL INFORMATION IS REQUIRED FOR BIDS OR CONSTRUCTION.
- ALL EXISTING UTILITIES TO REMAIN OPERABLE DURING CONSTRUCTION. ANY NECESSARY TEMPORARY DISCONNECTIONS MUST BE COORDINATED WITH THE OWNER AND UTILITY CONCERNED. CONTRACTOR SHALL TERMINATE SERVICE ACCORDING TO UTILITY COMPANY SPECIFICATIONS. DAMAGES SHALL BE REPAIRED AT NO ADDITIONAL COST TO OWNER AND TO OWNERS AND UTILITY COMPANY'S SATISFACTION.
- STORAGE AREAS FOR CONTRACTOR'S EQUIPMENT, PARKING, AND MATERIALS STOCKPILING SHALL BE IN THOSE AREAS APPROVED BY THE LANDSCAPE ARCHITECT AND OWNER.
- ALL AREAS OUTSIDE THE LIMIT OF WORK LINE SHALL BE PROTECTED AND RESTORED TO THEIR ORIGINAL CONDITION IF DAMAGED DURING CONSTRUCTION.
- CONDUCT ALL OPERATIONS WITH MINIMUM INTERFERENCE TO STREETS, SIDEWALKS AND ACCESS TO THE RESIDENCE. PROVIDE STREET AND MAINTAIN BARRICADES AS NECESSARY TO PROTECT USER'S SAFETY.
- CONTRACTOR TO MAINTAIN WORK SITE IN AN ORDERLY MANNER KEEPING THE PREMISES AND SURROUNDING AREAS FREE FROM ACCUMULATION OF DEBRIS AND TRASH RELATED TO WORK.
- CONTRACTOR SHALL CONFINE OPERATIONS AT THE SITE TO AREAS PERMITTED BY LAW, ORDINANCES, PERMITS, THE CONTRACT DOCUMENTS, AND THE OWNER.

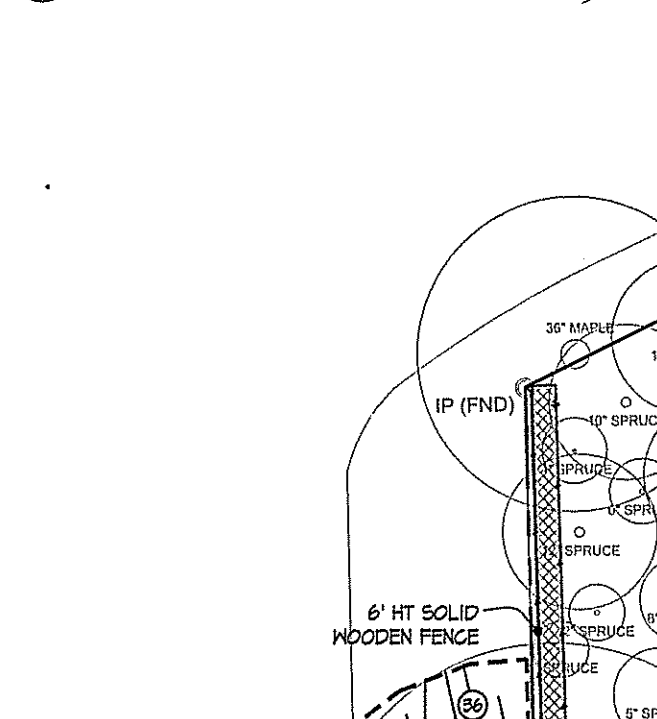
EROSION & SEDIMENTATION CONTROL NOTES:

- EROSION CONTROL BARRIER SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF EARTHWORK ALONG THE LIMITS OF DISTURBANCE AS SHOWN ON THE SITE PLANS AND PER THE RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL HANDBOOK, REVISION 1804 OR CURRENT VERSION.
- ALL EAS CONTROLS MUST BE PROPERLY MAINTAINED AND MUST REMAIN IN PLACE UNTIL SOILS HAVE BEEN STABILIZED TO THE SATISFACTION OF EITHER THE RESIDENT OR ENVIRONMENTAL REGULATORY AGENCY STAFF, KATHERINE FIELD AND ASSOCIATES, SITE ENGINEER AND/OR THE ENVIRONMENTAL CONSULTANT. EAS CONTROLS ARE TO BE INSPECTED WEEKLY AND IMMEDIATELY FOLLOWING ALL PRECIPITATION EVENTS THAT INCLUDE RAINFALL OF 1/4" OR MORE OR HIGH PROCEDES STORAGE WATER RAMP. ALL EAS CONTROLS MUST BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL RESTORATION OF THE SITE HAS BEEN ACHIEVED. ONCE VEGETATION IS ESTABLISHED, EROSION CONTROL MATERIALS SHALL BE REMOVED FOR OFF-SITE DISPOSAL.
- ALL DISTURBED SURFACES THAT REQUIRE STABILIZATION WILL BE COVERED WITH A PLANTABLE SOIL OR LOAM RELATIVELY FREE OF ROCKS, MATERIALS, STONES, LIMES, LINES OF SOILS, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS AND SEEDED WITH NATIVE, NON-INVASIVE MULCH OR SEEDING GRASS SEED MIX (OR EQUIVALENT). SOIL AREAS ARE TO BE PERMANENTLY STABILIZED WITH SEED MIX UNTIL TO COMPLETION OF PROJECT.
- AREAS EXPOSED FOR EXTENDED PERIODS OF TIME ARE TO BE COMPLETELY COVERED WITH TEMPORARY TREATMENTS, CONSISTING OF MAT STRIP, FIBER MESH OR PROTECTIVE COVERS SUCH AS MAT OR FIBER LININGS (BURLAP OR JUTE). THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY EITHER THE NEWPORT BUILDING OFFICIAL, REGULATORY AGENCY STAFF, KATHERINE FIELD AND ASSOCIATES, SITE ENGINEER AND/OR THE ENVIRONMENTAL CONSULTANT. MAT OR STRIP APPLICATIONS SHALL BE APPLIED AT A RATE OF 200 LBS/AC.
- ALL DISTURBED SOILS, EITHER NEWLY CREATED, OR EXPOSED PRIOR TO OCTOBER 15 OF ANY CALENDAR YEAR SHALL BE SEED OR PROTECTED BY THAT DATE. ANY AREAS THAT DO NOT HAVE ADEQUATE VEGETATIVE STABILIZATION BY NOVEMBER 15 OF THE SAME YEAR MUST BE STABILIZED BY INSTALLING EROSION CONTROL MATTING, MAT MULCH OR EQUIVALENT.
- SOILS, CONSTRUCTION DEBRIS, OR MATERIALS SHALL NOT BE STOCKPILED OR EXPOSED ON OR ON THE COASTAL ZONE, WITHIN 10 FEET OF THE INLAND EDGE OF COASTAL FEATURE, IN COASTAL WATERS, OR IN THE COASTAL BUFFER ZONE.
- ALL DISTURBED SOILS, EITHER NEWLY CREATED, OR EXPOSED PRIOR TO OCTOBER 15 OF ANY CALENDAR YEAR SHALL BE SEED OR PROTECTED BY THAT DATE. ANY AREAS THAT DO NOT HAVE ADEQUATE VEGETATIVE STABILIZATION BY NOVEMBER 15 OF THE SAME YEAR MUST BE STABILIZED BY INSTALLING EROSION CONTROL MATTING, MAT MULCH OR EQUIVALENT.

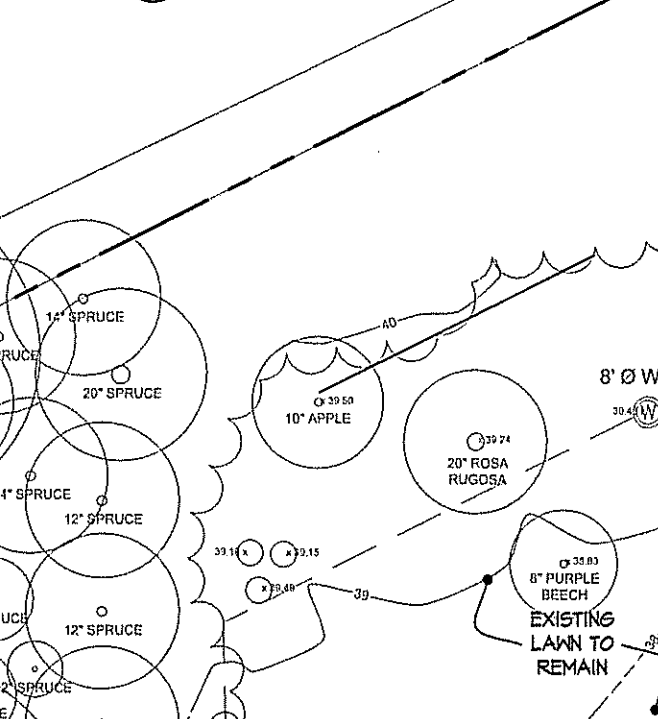
CONSTRUCTION SEQUENCE NOTES:

- PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR IS TO CONTACT DDP SAFE.
- PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR IS TO CONTACT THE RESIDENT BUILDING INSPECTOR.
- ALL EROSION CONTROL SYSTEMS AT THE SITE ARE TO BE INSTALLED PRIOR TO THE START OF CONSTRUCTION AND BE PROPERLY MAINTAINED UNTIL ALL DISTURBED AREAS ARE STABILIZED.
- UPON COMPLETION OF CONSTRUCTION AND PRIOR TO REMOVAL OF THE EROSION CONTROL DEVICES, THE CONTRACTOR IS TO CONTACT THE RESIDENT BUILDING INSPECTOR FOR A FINAL INSPECTION.
- EROSION CONTROL SYSTEMS ARE TO BE MAINTAINED IN THE CONDITION SHOWN ON PLANS THROUGHOUT THE DURATION OF THE PROJECT. ANY DAMAGED EROSION CONTROL SYSTEMS MUST BE IMMEDIATELY REPAIRED.
- EROSION CONTROL DEVICES ARE TO REMAIN IN PLACE AFTER COMPLETION OF THE PROJECT AND GRASS HAS ESTABLISHED.
- CONTRACTOR TO CLEAN DRIVEWAY DAILY TO PREVENT TRACKING OF DEBRIS OFF SITE.

1 EROSION CONTROL BARRIER

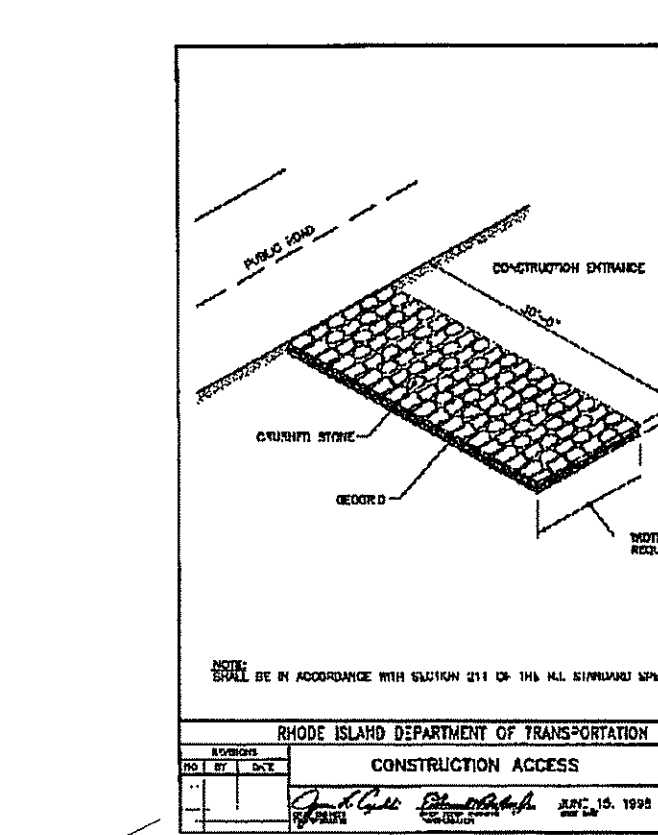
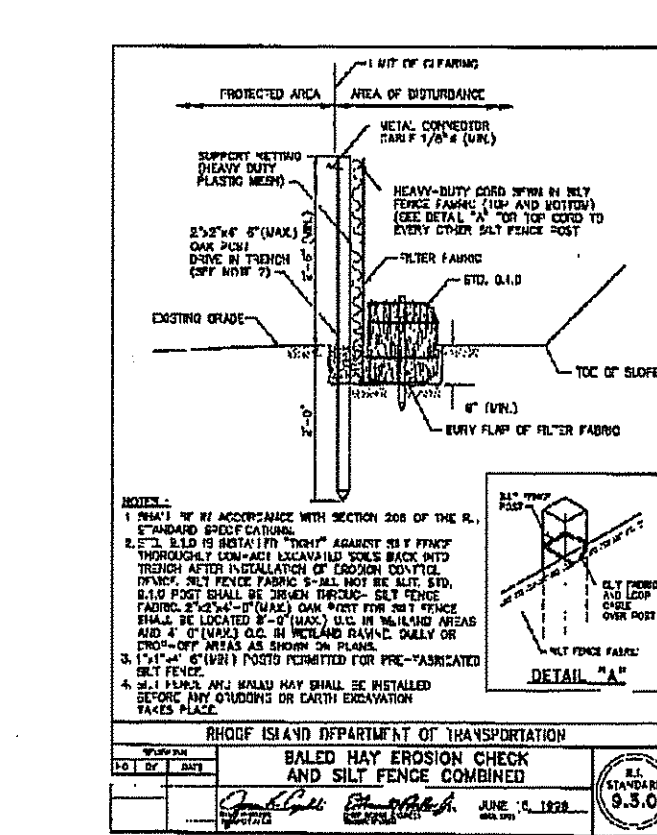


2 CONSTRUCTION ACCESS

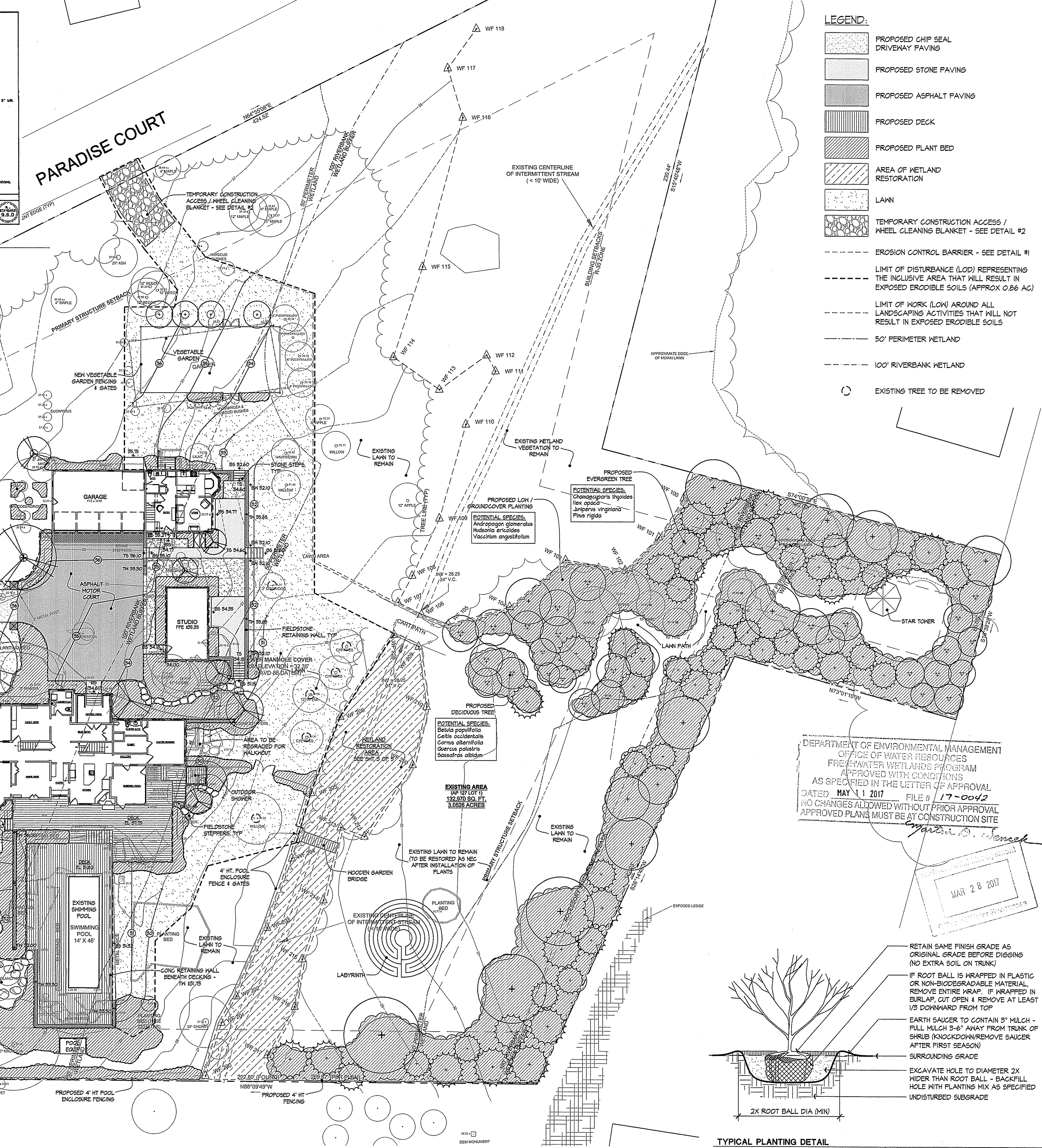


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OWNER'S INFORMATION:
MR. AND MRS. PAUL BOLLES-BEAVEN
532 PARADISE AVE.
MIDDLETOWN, RI 02842



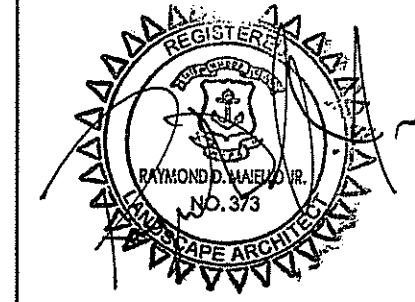
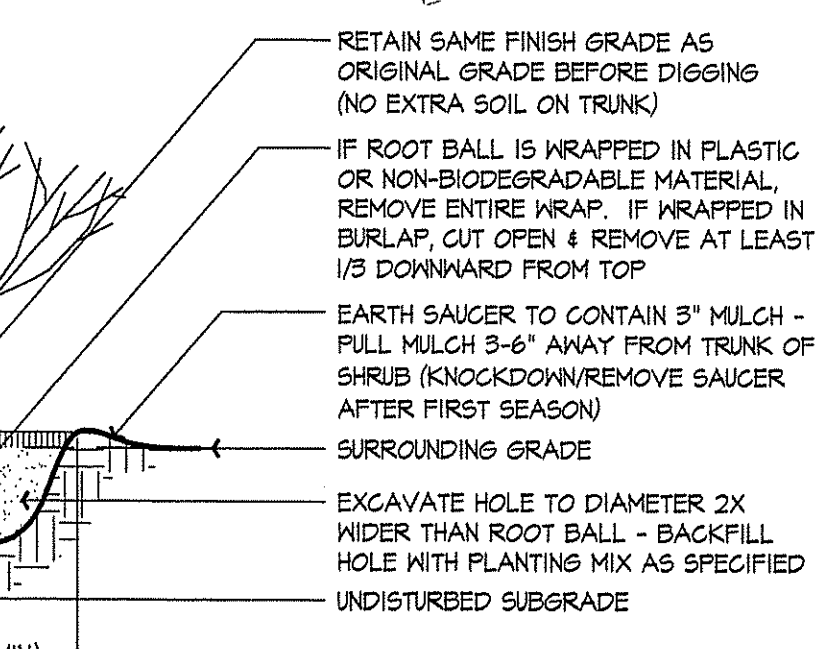
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- LEGEND:
- PROPOSED CHIP SEAL DRIVEWAY PAVING
 - PROPOSED STONE PAVING
 - PROPOSED ASPHALT PAVING
 - PROPOSED DECK
 - PROPOSED PLANT BED
 - AREA OF WETLAND RESTORATION
 - LAWN
 - TEMPORARY CONSTRUCTION ACCESS / WHEEL CLEANING BLANKET - SEE DETAIL #2
 - EROSION CONTROL BARRIER - SEE DETAIL #1
 - LIMIT OF DISTURBANCE (LOD) REPRESENTING THE INCLUSIVE AREA THAT WILL RESULT IN EXPOSED ERODIBLE SOILS (APPROX 0.86 AC)
 - LIMIT OF WORK (LOW) AROUND ALL LANDSCAPING ACTIVITIES THAT WILL NOT RESULT IN EXPOSED ERODIBLE SOILS
 - 50' PERIMETER WETLAND
 - 100' RIVERBANK WETLAND
 - EXISTING TREE TO BE REMOVED

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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AS SPECIFIED IN THE LETTER OF APPROVAL
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

MAR 28 2017



Katherine Field and Associates
Landscape Architects & Site Planners
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Newport, RI 02840
tel 401.848.2750
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www.katherinefield.com
A Rhode Island Corporation

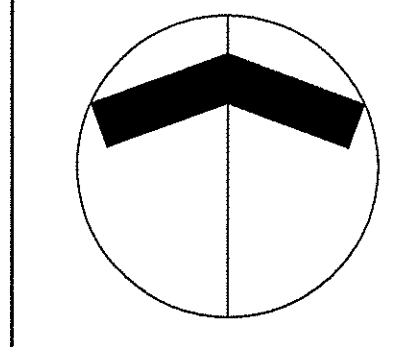
BOLLES-BEAVEN RESIDENCE
532 PARADISE AVE.
A.P. 127 LOT 1
MIDDLETOWN, RI 02842

REVISIONS:
3/23/17

DATE:
1/13/17

DRAWN BY: LT/RR/KAF
CHECKED BY: KAF

SCALE:
1"=20'-0"



RIDEM PRELIMINARY DETERMINATION APPLICATION - PROPOSED CONDITIONS PLAN

LOCUS MAP

GENERAL CONSTRUCTION NOTES:

1. NOTIFY DIG-SAFE AND LOCAL AUTHORITIES PRIOR TO ANY TYPE OF SITE PREPARATION OR CONSTRUCTION AT 400-322-4444.
2. CONTRACTOR TO OBTAIN ALL PERMITS FOR CONSTRUCTION. LIMIT OF WORK LINE IS PROPERTY LINE UNLESS OTHERWISE INDICATED.
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4. LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PRIOR TO CONSTRUCTION TO DETERMINE IN THE FIELD THE ACTUAL LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES WHETHER SHOWN ON THE PLAN OR NOT.
6. THE CONTRACTOR SHALL CALL UTILITY PROTECTION SERVICE 2 HOURS PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT.
7. CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT IF ADDITIONAL INFORMATION IS REQUIRED FOR BIDS OR CONSTRUCTION.
8. ALL EXISTING UTILITIES TO REMAIN OPERABLE DURING CONSTRUCTION. ANY NECESSARY TEMPORARY DISCONNECTIONS MUST BE COORDINATED WITH THE OWNER AND UTILITY CONCERNED. CONTRACTOR SHALL TERMINATE SERVICE PRIOR TO CONSTRUCTION. CONTRACTOR TO REPAIR ANY DAMAGE TO UTILITY LINES OR STRUCTURES DURING CONSTRUCTION. DAMAGES SHALL BE REPAIRED AT NO ADDITIONAL COST TO OWNER AND TO OWNER'S AND UTILITY COMPANY'S SATISFACTION.
9. STORAGE AREAS FOR CONTRACTOR'S EQUIPMENT, PARKING AND MATERIALS STOCKPILING SHALL BE IN THOSE AREAS APPROVED BY THE LANDSCAPE ARCHITECT AND OWNER.
10. ALL AREAS OUTSIDE THE LIMIT OF WORK LINE SHALL BE PROTECTED AND RESTORED TO THEIR ORIGINAL CONDITION IF DAMAGED DURING CONSTRUCTION.
11. CONDUCT ALL OPERATIONS WITH MINIMUM INTERFERENCE TO STREETS, SIDEWALKS AND ACCESS TO THE RESIDENCE. PROVIDE, ERECT, AND MAINTAIN BARRICADES AS NECESSARY TO PROTECT USER'S SAFETY.
12. CONTRACTOR TO MAINTAIN WORK SITE IN AN ORDERLY MANNER KEEPING THE PREMISES AND SURROUNDING AREAS FREE FROM ACCUMULATION OF DEBRIS AND TRASH RELATED TO WORK.
13. CONTRACTOR SHALL CONFINE OPERATIONS AT THE SITE TO AREAS PERMITTED BY LAH ORDINANCES, PERMITS, THE CONTRACT DOCUMENTS, AND THE OWNER.

EROSION & SEDIMENTATION CONTROL NOTES:

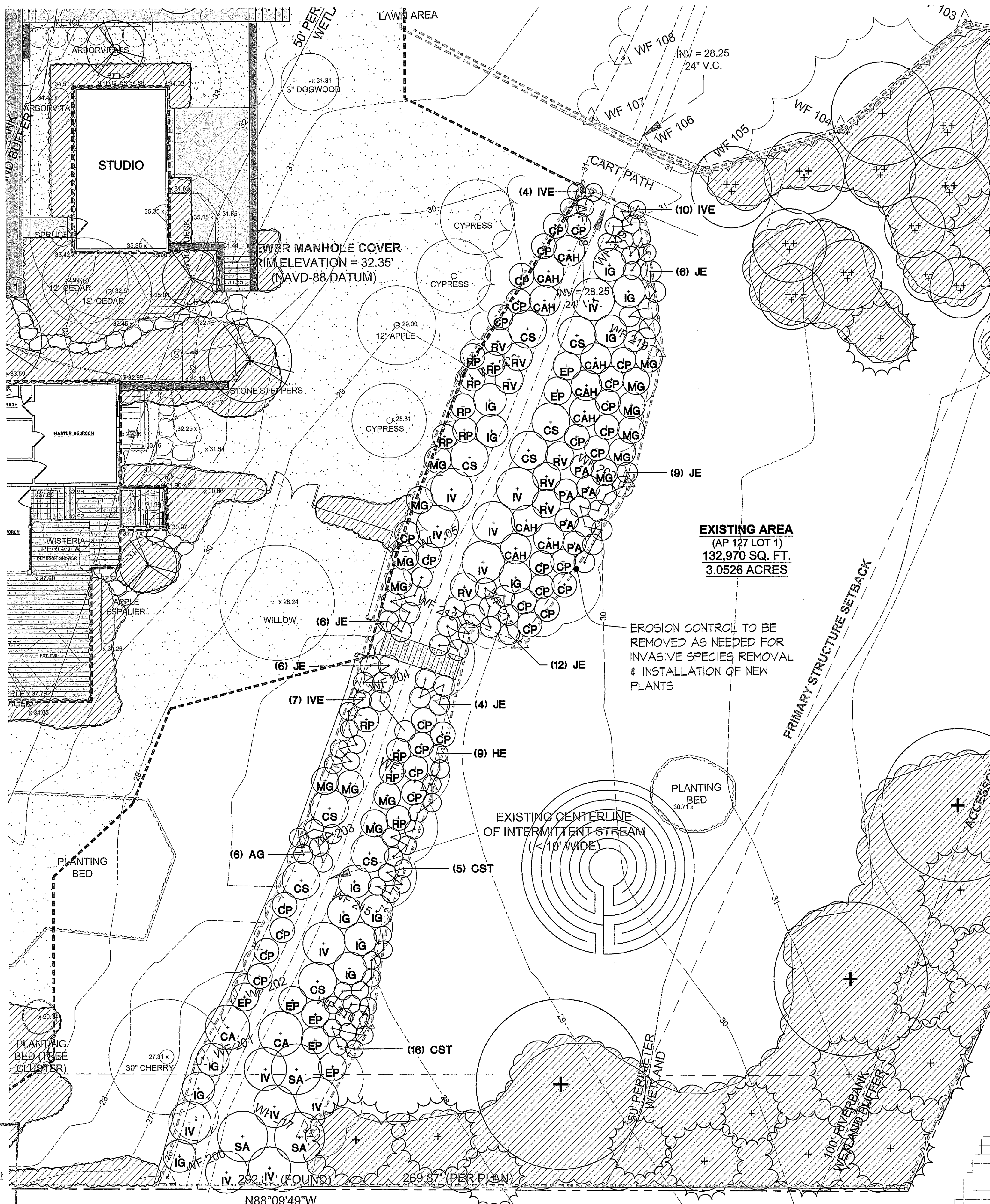
1. EROSION CONTROL BARRIER SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF EARTHWORK ALONG THE LIMITS OF DISTURBANCE AS SHOWN ON THE PLAN AND FOR THE RIDGE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL HANDBOOK, RISEN AND UOEN 1994, OR CORRESPONDING.
2. ALL EES CONTROLS MUST BE PROPERLY MAINTAINED AND MUST REMAIN IN PLACE UNTIL SOILS HAVE BEEN STABILIZED TO THE SATISFACTION OF EITHER THE MESTERY BUILDING OFFICIAL, REGULATORY AGENCY STAFF, KATHERINE FIELD AND ASSOCIATES, SITE ENGINEER AND/OR THE ENVIRONMENTAL CONSULTANT. EES CONTROLS ARE TO BE INSPECTED WEEKLY AND IMMEDIATELY FOLLOWING ALL PRECIPITATION EVENTS THAT INCLUDE RAINFALL, OR ON HOSE OR PROPOSED PROGRESS STORAGE WATER RUNOFF. ALL EES CONTROLS SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL VEGETATIVE STABILIZATION HAS BEEN ACHIEVED. ONCE VEGETATION IS ESTABLISHED, EROSION CONTROL MATERIALS SHALL BE REMOVED FOR OFF-SITE DISPOSAL.
3. ALL DISTURBED SURFACES THAT REQUIRE STABILIZATION WILL BE COVERED WITH A PLANTABLE SOIL OR LOAM RELATIVELY FREE OF SEEDS, MATERIALS, STONES, ROOTS, LIMBS OF TREES, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS AND SEEDS WITH NATIVE, NON-INVASIVE MIDDLE LIFE CONSERVATION GRASS SEED MIX OR EQUIVALENT. SOIL AREAS ARE TO BE PERMANENTLY STABILIZED WITH SEED MIX PRIOR TO COMPLETION OF PROJECT.
4. AREAS EXPOSED FOR EXTENDED PERIODS OF TIME ARE TO BE COMPLETELY COVERED WITH TEMPORARY TREATMENTS, CONSISTING OF HAY, STRAW, FIBER MULCH OR PROTECTIVE COVERS SUCH AS MAT OR FIBER LININGS BURLAP OR LIES. THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY EITHER THE MESTERY BUILDING OFFICIAL, REGULATORY AGENCY STAFF, KATHERINE FIELD AND ASSOCIATES, SITE ENGINEER AND/OR THE ENVIRONMENTAL CONSULTANT. HAY OR STRAW APPLICATIONS SHALL BE APPLIED AT A RATE OF 200 LBS/ACRE.
5. ALL DISTURBED SOILS, EITHER NEWLY CREATED, OR EXPOSED, PRIOR TO OCTOBER 31 OF ANY CALENDAR YEAR SHALL BE SEEDING OR PROTECTED BY THAT DATE. ANY AREAS THAT DO NOT HAVE ADEQUATE VEGETATIVE STABILIZATION BY NOVEMBER 15 OF THE SAME YEAR MUST BE STABILIZED BY INSTALLING EROSION CONTROL MATTING, HAY MULCH OR EQUIVALENT.
6. SOILS, CONSTRUCTION DEBRIS, OR MATERIALS SHALL NOT BE STOCKPILED OR DISPOSED OF ON THE COASTAL FEATURE, WITHIN 5 FEET OF THE INLAND EDGE OF THE COASTAL FEATURE, IN COASTAL WATERS, OR IN THE COASTAL BUFFER ZONE.
7. ALL DISTURBED SOILS, EITHER NEWLY CREATED, OR EXPOSED, PRIOR TO OCTOBER 31 OF ANY CALENDAR YEAR SHALL BE SEEDING OR PROTECTED BY THAT DATE. ANY AREAS THAT DO NOT HAVE ADEQUATE VEGETATIVE STABILIZATION BY NOVEMBER 15 OF THE SAME YEAR MUST BE STABILIZED BY INSTALLING EROSION CONTROL MATTING, HAY MULCH OR EQUIVALENT.

CONSTRUCTION SEQUENCE NOTES:

1. PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR IS TO CONTACT DIG SAFE.
2. PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR IS TO CONTACT THE MESTERY BUILDING INSPECTOR.
3. ALL EROSION CONTROL SYSTEMS AT THE SITE ARE TO BE INSTALLED PRIOR TO THE START OF CONSTRUCTION AND BE PROPERLY MAINTAINED UNTIL ALL DISTURBED AREAS ARE STABILIZED.
4. UPON COMPLETION OF CONSTRUCTION AND PRIOR TO REMOVAL OF THE EROSION CONTROL DEVICES, THE CONTRACTOR IS TO CONTACT THE MESTERY BUILDING INSPECTOR FOR A FINAL INSPECTION.
5. EROSION CONTROL SYSTEMS ARE TO BE MAINTAINED IN THE MANNER SHOWN ON PLANS THROUGHOUT THE DURATION OF THE PROJECT. ANY DAMAGED EROSION CONTROL SYSTEMS MUST BE IMMEDIATELY REPAIRED.
6. EROSION CONTROL DEVICES ARE TO REMAIN IN PLACE AFTER COMPLETION OF THE PROJECT AND GRASS HAS ESTABLISHED.
7. CONTRACTOR TO CLEAN DRIVEWAY DAILY TO PREVENT TRACKING OF DEBRIS OFF SITE.

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

OWNER'S INFORMATION:
 98 AND 100 FAIR BOLLES-BEAVEN
 532 PARADISE AVE.
 MIDDLETOWN, RI 02842



EXISTING AREA
 (AP 127 LOT 1)
 132,970 SQ. FT.
 3.0526 ACRES

EROSION CONTROL TO BE REMOVED AS NEEDED FOR INVASIVE SPECIES REMOVAL & INSTALLATION OF NEW PLANTS

EXISTING CENTERLINE OF INTERMITTENT STREAM (<10' WIDE)

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED MAY 11 2017 FILE # 17-0012
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MAY 28 2017

PLANT SCHEDULE

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING O.C.
6	AG	Andropogon glomeratus	Bushy Bluestem	#1 cont.	1.5'
21	CS	Carex stricta	Tussock Sedge	#1 cont.	1.5'
9	CAH	Clethra alnifolia 'Hummingbird'	Summersweet	#3 cont.	4'
30	CP	Comptonia peregrina	Sweet Fern	#3 cont.	4'
2	CA	Comus amomum	Dogwood	#3 cont.	10'
9	CS	Comus sericea	Red Twig Dogwood	#3 cont.	8'
7	EP	Eupatorium purpureum	Joe Pye Weed	#1 cont.	3'
9	HE	Hudsonia ericoides	Pine Barren Goldheather	#1 cont.	3'
14	IG	Ilex glabra	Inkberry	#3 cont.	8'
13	IV	Ilex verticillata	Winterberry	#3 cont.	8'
21	IVE	Iris versicolor	Blue Flag Iris	#1 cont.	1.5'
43	JE	Juncus effusus	Common Rush	#1 cont.	1.5'
14	MG	Morella gale	Northern Coastal Shrub Swale	#3 cont.	3'
5	PA	Panicum amarum	Bitter Panicgrass	#1 cont.	3'
7	RV	Rhododendron viscosum	Swamp Azalea	#3 cont.	5'
10	RP	Rosa Palustris	Swamp Rose	#3 cont.	4'
3	SA	Sassafras albidum	Sassafras	2.5/3" cal.	20'



Katherine
Field and
Associates

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& Site Planners
 29 Mary Street
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 www.katherinefield.com
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BOLLES-BEAVEN RESIDENCE
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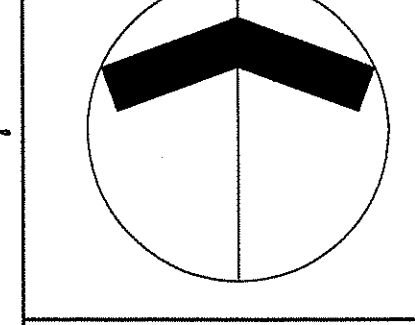
REVISIONS:
 3/23/17

DATE:
 1/13/17

DRAWN BY:
 LT/RM/KAF

CHECKED BY:
 KAF

SCALE:
 1"=10'-0"



RIDEM PRELIMINARY
 DETERMINATION
 APPLICATION -
 WETLAND
 RESTORATION /
 INVASIVE REMOVAL
 PLAN

SHEET:
 3 OF 5

WF 117 Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.



LOCUS MAP
NOT TO SCALE

SOIL TESTING RESULTS:
CONDUCTED BY: THOMAS J. PRINCIPE, III, PE

- TP-1
Ap-0-12, FSL
B, 12-26, SL
C, 26-66, SIL (Cat. 9)
ESHGWT @ 42"
LEDGE AT 66"
- TP-2
Ap-0-14, FSL
B, 14-22, SL
C, 22-60, SIL (Cat. 9)
ESHGWT @ 36"
LEDGE AT 60"
- TP-3
24-0- HTM
0-36- Cg, SIL
ESHGWT 0" (from O.G.)
- LT-A: 48" LEDGE
LT-B: 60" LEDGE
LT-C: 66" LEDGE
LT-D: 66" LEDGE

- DRAINAGE NOTES:
- EXISTING GRAVEL DRIVEWAY SURFACE = 6,304 SF
 - PROPOSED GRAVEL DRIVEWAY SURFACE = 0 SF
 - PROPOSED ASPHALT COURT = 2,320 SF
 - Stormwater BMP per RI Single Family Guidance Document:
 - Rain Garden 8" deep, silty soils - 160 sf required per 1,000 sf of drainage area.
 - Proposed Rain Garden #2 - 375 sf (371 sf required).
 - PROPOSED CHIP SEAL DRIVEWAY = 4,800 SF
 - Stormwater BMP per RI Single Family Guidance Document:
 - Rain Garden 8" deep, silty soils - 160 sf required per 1,000 sf of drainage area.
 - Proposed Rain Garden #2 - 280 sf
 - Vegetated Swale, silty soils - 160 sf required per 1,000 sf of drainage area.
 - Vegetated Swale #1 = 295 sf
 - Vegetated Swale #2 = 270 sf
 - Total area provided for Chip Seal Driveway BMP's 845 sf (768 sf required).
- * Note: vegetated swales to be 1' deep with side slopes 3:1.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 11 2017 FILE # 17-0042
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Walter D. Wencel

OWNER/APPLICANT:
MR. & MRS. PAUL BOLLES-BEAVEN
32 YALE STREET
MAPLEWOOD, NJ 07040

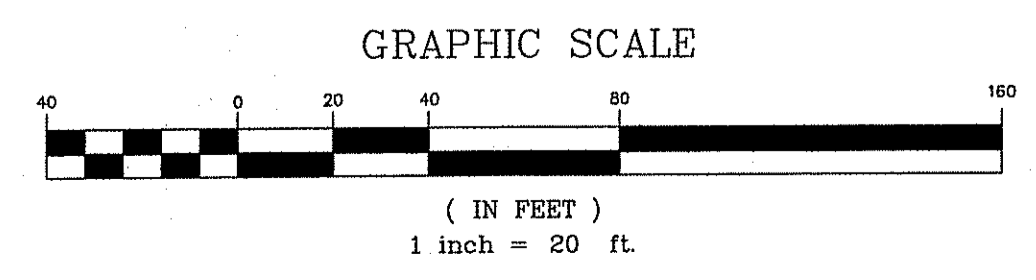
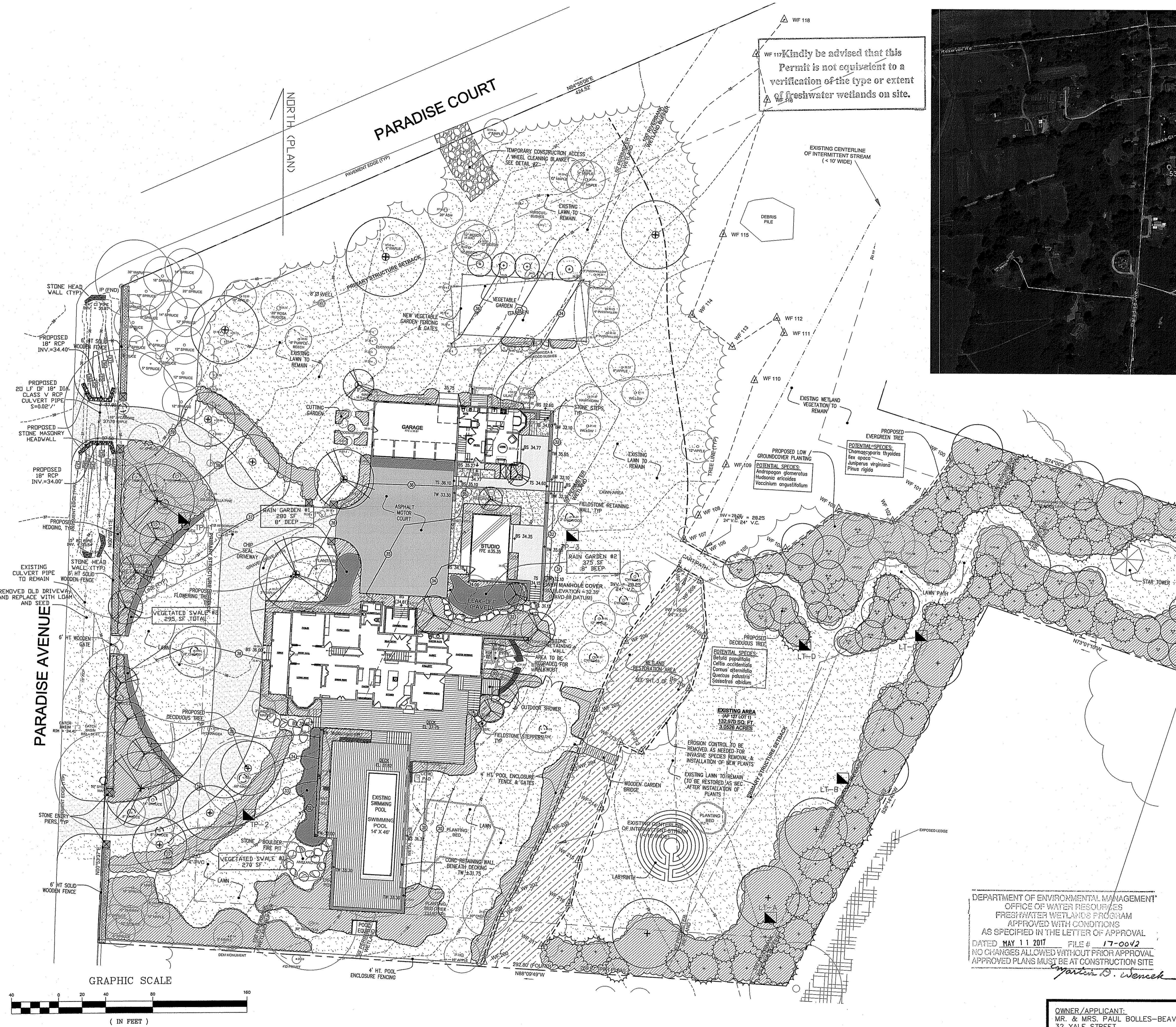
Thomas J. Principe, III
REGISTERED PROFESSIONAL ENGINEER

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WWW.PRINCIPEENGINEERING.COM

REVISIONS			
No.	DATE	DRWN	CHKD

RIDEM PRELIMINARY DETERMINATION
APPLICATION- STORMWATER PLAN
for
AP 127 LOT 1
532 Paradise Avenue
in
MIDDLETOWN, RHODE ISLAND

SCALE: 1"=20'
DRAWN BY: TJP DESIGN BY: TJP CHECKED BY: TJP
DATE: 12/13/16 SHEET NO: 4 OF 5 PROJECT NO.: 2016-1177



VEGETATIVE COVER AND PLANTING

1. THE NORMAL ACCEPTABLE SEASONABLE SEEDING DATES ARE APRIL 1ST THROUGH OCTOBER 15TH.
2. TOP SOIL FOR PERMANENT OR LONG TERM TEMPORARY SEEDING SHOULD HAVE A SANDY LOAM TEXTURE, RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS. TOP SOIL SHALL CONFORM WITH RHODE ISLAND SPECIFICATIONS M18.01.
3. THE DESIGN SEED MIX UTILIZED IN ALL DISTURBED AREAS TO BE SEEDDED SHALL BE COMPRISED OF THE FOLLOWING:

TYPE	% BY WEIGHT	SEEDING DATE
CREeping RED FESCUE	70	
ASTORIA BENTGRASS	5	APRIL 1 - JUNE 15
BIRDFOOT TREFLOIL	15	AUGUST 15 - OCTOBER 15
PERENNIAL RYE GRASS	10	
APPLICATION RATE - 100 LBS PER ACRE		

SEED MIX SHALL BE INOCULATED WITHIN 24 - HOURS BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULATION FOR EACH SEED VARIETY. ALTERNATE SEED TYPES DUE TO SITE SPECIFIC CONDITIONS AND SOILS ARE ACCEPTABLE WITH THE ENGINEER'S APPROVAL.

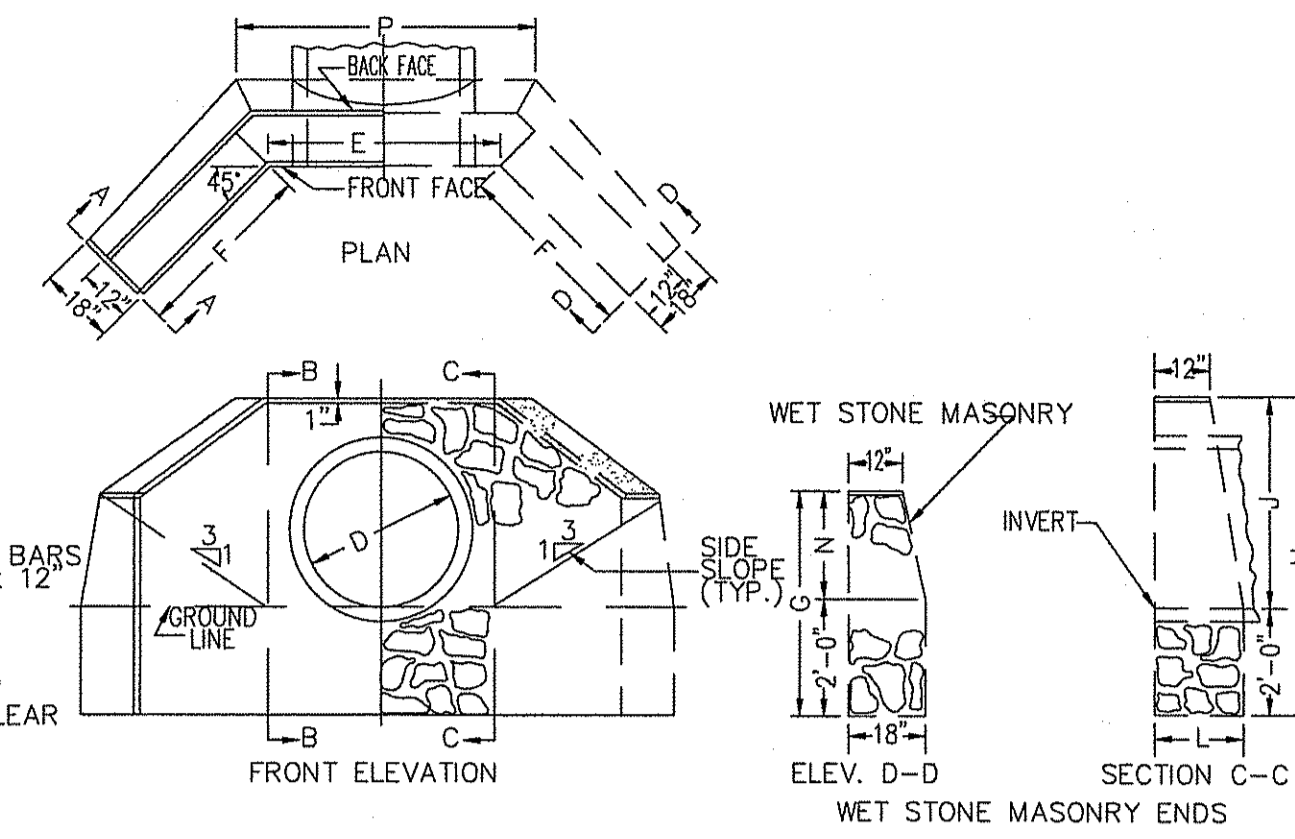
4. IN TOPSOIL SEEDING AREAS, THE CONTRACTOR WILL LIME AND FERTILIZE AS REQUIRED TO COMPLIMENT OR UPGRADE SOIL CONDITIONS.
5. THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY PERMANENT VEGETATIVE COVER AREAS THAT DO NOT DEVELOP OR WHICH ERODE WITHIN A ONE (1) YEAR PERIOD.

EROSION CONTROL, SOIL STABILIZATION AND SEDIMENT CONTROL PLAN

1. PRIOR TO THE COMMENCEMENT OF ANY CLEARING, GRUBBING, DEMOLITION OR EARTHWORK ACTIVITY, TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE PLANS ARE TO BE INSTALLED BY THE CONTRACTOR.
2. CONSTRUCTION ACCESS STABILIZATION ENTRANCE PADS ARE TO BE INSTALLED PRIOR TO THE COMMENCEMENT OF SITE GRUBBING OR EARTHWORK ACTIVITY.
3. EXISTING CATCH BASINS ARE TO BE PROTECTED WITH HAY BALES AND/OR SILT SACS PRIOR TO THE START OF SITE GRUBBING, EARTHWORK OR UNDERGROUND UTILITY AND DRAINAGE INFRASTRUCTURE INSTALLATION TO SERVE THE DEVELOPMENT SITE.
4. THE PROJECT CONSTRUCTION SEQUENCE, TO THE EXTENT PRACTICAL, SHOULD REQUIRE THE INSTALLATION OF DOWN GRADE AND OFF-SITE STORM DRAINAGE SYSTEM IMPROVEMENTS BEFORE THE START OF SITE GRUBBING AND EARTHWORK ACTIVITY.
5. TEMPORARY SITE SLOPE TREATMENTS FOR SOIL STABILIZATION SHALL CONSIST OF HAY, STRAW, FIBER MULCH, RIP RAP OR PROTECTIVE COVERS SUCH AS MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, AND EXCELSIOR OR EQUAL PRODUCTS). THESE AND OTHER ACCEPTABLE MEASURES SHALL BE INCORPORATED INTO THE SITE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER.
6. CONSTRUCTION SITES ARE DYNAMIC, THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND OR MOVEMENT AND MAINTENANCE OF EROSION CONTROLS, SOIL STABILIZATION AND SEDIMENT CONTROL MEASURES AS NEEDED TO MAXIMIZE THE INTENT OF THE PLAN FOR ALL SITE CONDITIONS THROUGHOUT THE CONSTRUCTION PERIOD.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERIODIC INSPECTION, MAINTENANCE, REPAIR, AND REPLACEMENT OF EROSION CONTROLS, SOIL STABILIZATION AND SEDIMENT CONTROL DEVICES UNTIL AN ACCEPTABLE PERMANENT VEGETATIVE GROWTH IS ESTABLISHED. THE CONTRACTOR SHALL MAINTAIN A DETAILED LOG OF ALL EROSION CONTROL INSPECTIONS, COMPLAINTS RELATED TO EROSION OR SEDIMENT, AND CORRECTIVE REMEDIAL MEASURES TAKEN THROUGHOUT THE COURSE OF THE PROJECT CONSTRUCTION.
8. SOIL EROSION AND SEDIMENT CONTROL IS NOT LIMITED TO DAMAGES CAUSED BY WATER BUT ALSO INCLUDES EROSION AND SEDIMENT RESULTING FROM WINDS. MEASURES, SUCH AS TEMPORARY GROUND COVERS, WATER AND CALCIUM APPLICATIONS ARE TO BE UNDERTAKEN AS NEEDED TO MINIMIZE WIND RELATED SOIL AND DUST CONTROL.
9. STOCK PILES OF EARTH MATERIALS SHALL NOT BE LOCATED NEAR WATERWAYS OR WETLANDS. STOCK PILES SHALL HAVE SIDE SLOPES NO GREATER THAN THIRTY PERCENT (30%). STOCK PILES SHALL BE SURROUNDED ON THE DOWN GRADIENT OF THE EXISTING GROUND SURFACE BY HAY BALES OR SILT FENCE. THE STOCK PILES SHALL ALSO BE SEEDDED OR STABILIZED IN SOME MANNER TO PREVENT SOIL EROSION.
10. THE SMALLEST POSSIBLE SITE AREAS SHALL BE DISTURBED OR EXPOSED AT ONE TIME AND DENUDED SLOPES OR WORK AREAS SHALL NOT BE LEFT EXPOSED FOR EXCESSIVE PERIODS OF TIME, SUCH AS INACTIVE PERIODS OR SITE WORK SHUT DOWNS.
11. TO THE EXTENT POSSIBLE, ALL DISTURBED AREAS MUST BE SEEDDED OR STABILIZED WITHIN THE CONSTRUCTION SEASON. STABILIZATION OF ONE FORM OR ANOTHER SHALL BE ACHIEVED WITHIN FIFTEEN (15) DAYS OF FINAL GRADING.
12. EXPOSED STEEP OR LONG SLOPES SHOULD BE TREATED WITH "CRIMPING" OR "TRACKING" TO REDUCE EROSION AND SEDIMENT AND TO TACK DOWN SEEDING OR MULCH APPLICATIONS.
13. IF CONCRETE IS TO BE USED ON SITE, THE CONTRACTOR MUST ESTABLISH AND MAINTAIN SPECIFIC WASHOUT AREAS FOR THE CONCRETE TRUCKS WITH APPROPRIATE PROTECTION CONTROLS.
14. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING COLLECTION AND STORAGE LOCATIONS ON-SITE FOR ALL CONSTRUCTION DEBRIS AND TRASH SO THAT THIS MATERIAL DOES NOT BECOME A NEIGHBORHOOD NUISANCE.
15. EXISTING TREES AND VEGETATION WILL BE RETAINED WHENEVER FEASIBLE.
16. SITE SOIL EROSION AND SOIL STABILIZATION AND SEDIMENT CONTROLS MUST CONFORM TO ALL REQUIREMENTS OF THE APPLICABLE LOCAL COMMUNITY ORDINANCES AND STATE REGULATIONS.

GENERAL NOTES:

1. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO FAMILIARIZE HIMSELF WITH ANY APPLICABLE LOCAL, STATE AND FEDERAL LAWS GOVERNING HIS INTENDED ACTIVITIES. OSHA REGULATIONS ARE APPLICABLE OF PROJECT SITE CONSTRUCTION ACTIVITIES.
2. ALL CONSTRUCTION WILL BE UNDERTAKEN IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE TOWN OF BRISTOL.
3. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF ALL EXISTING UTILITIES, STRUCTURES, AND ADJUTING PROPERTIES. THE COST OF ANY REPAIR OR REPLACEMENT OF DAMAGED ITEMS SHALL BE BORNE BY THE CONTRACTOR.
4. IF THE MUNICIPALITY REQUIRES A PROJECT PRE-CONSTRUCTION CONFERENCE, THE PROJECT DEVELOPER AND THE PROJECT CONTRACTOR WILL ATTEND AND WILL PROVIDE ALL REQUESTED MATERIALS PRIOR TO COMMENCING ANY WORK.
5. IF CEMENT CONCRETE MIX TRUCKS ARE TO BE WASHED OUT ON SITE, THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING A WASH OUT AREA WITH APPROPRIATE PROTECTION CONTROLS.
6. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING COLLECTION AND STORAGE LOCATIONS ON-SITE FOR ALL CONSTRUCTION DEBRIS AND TRASH SO THAT THIS MATERIAL DOES NOT BECOME A NEIGHBORHOOD NUISANCE.

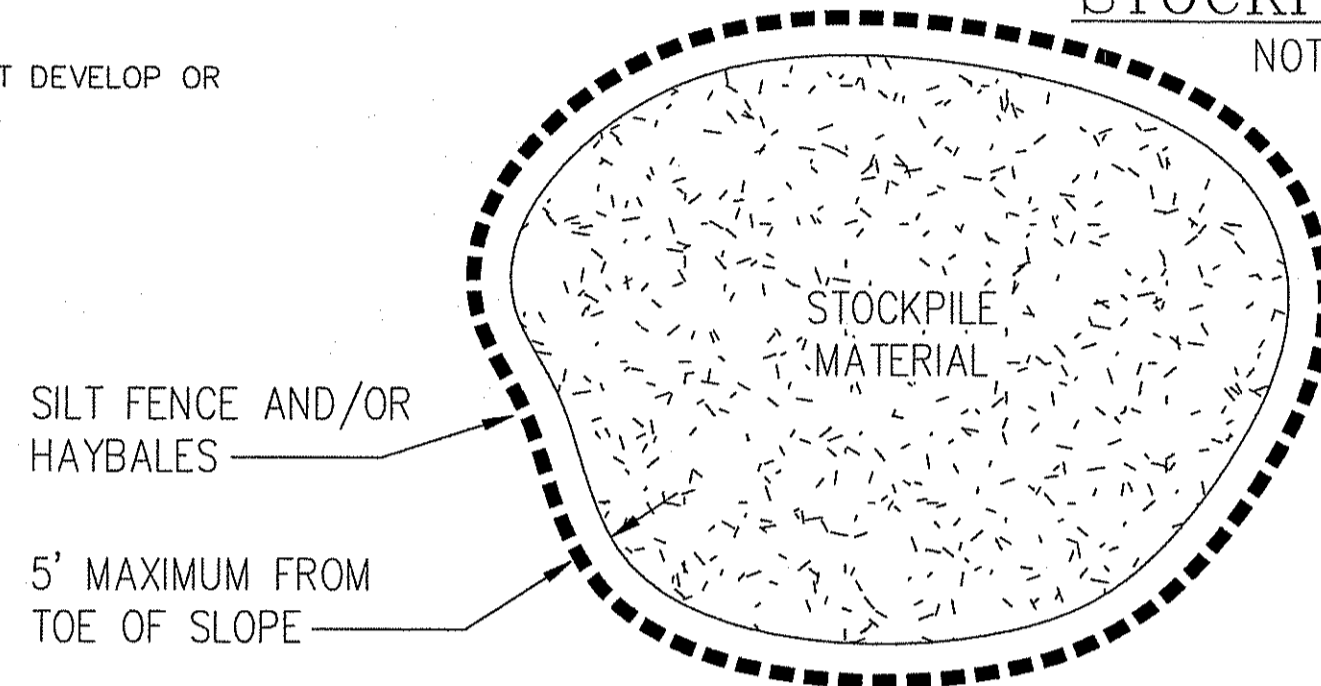


D	E	F	G	H	J	L	N	P
12"	2'-6"	4'-8"	2'-4"	0'-7"	0'-1"	6'-1"	2'-3"	5'
15"	2'-9"	4'-3"	3'-4"	3'-2"	3'-1"	6'-1"	3'-3"	9'
18"	3'-0"	4'-3"	6'-4"	6'-2"	5'-1"	6'-1"	6'-4"	1'
21"	3'-3"	0'-3"	8'-4"	9'-2"	9'-1"	6'-1"	8'-4"	4'
24"	3'-6"	5'-3"	9'-5"	9'-3"	0'-1"	6'-1"	9'-4"	7'
30"	4'-0"	8'-4"	4'-0"	5'-6"	6'-3"	6'-1"	6'-2"	0'-5"
36"	4'-6"	9'-6"	4'-3"	6'-0"	4'-0"	8'-2"	3'-5"	11'
42"	5'-0"	10'-7'-4"	6'-6"	6'-4"	6'-1"	10'-2"	6'-6"	6'
48"	5'-6"	11'-8'-4"	9'-7"	0'-5"	0'-2"	0'-2"	9'-7"	2'

- 1.) ALL CONCRETE DIMENSIONS SHOWN ARE MINIMUM
- 2.) CONCRETE SHALL BE 4000 P.S.I. MINIMUM
- 3.) ALL REINFORCING SHALL BE #5 MINIMUM
- 4.) ALL REINFORCING BARS SHALL BE EPOXY COATED
- 5.) INDICATED DIMENSIONS ARE MINIMUM UNLESS NOTED OTHERWISE ON PLANS.

STOCKPILE DETAIL

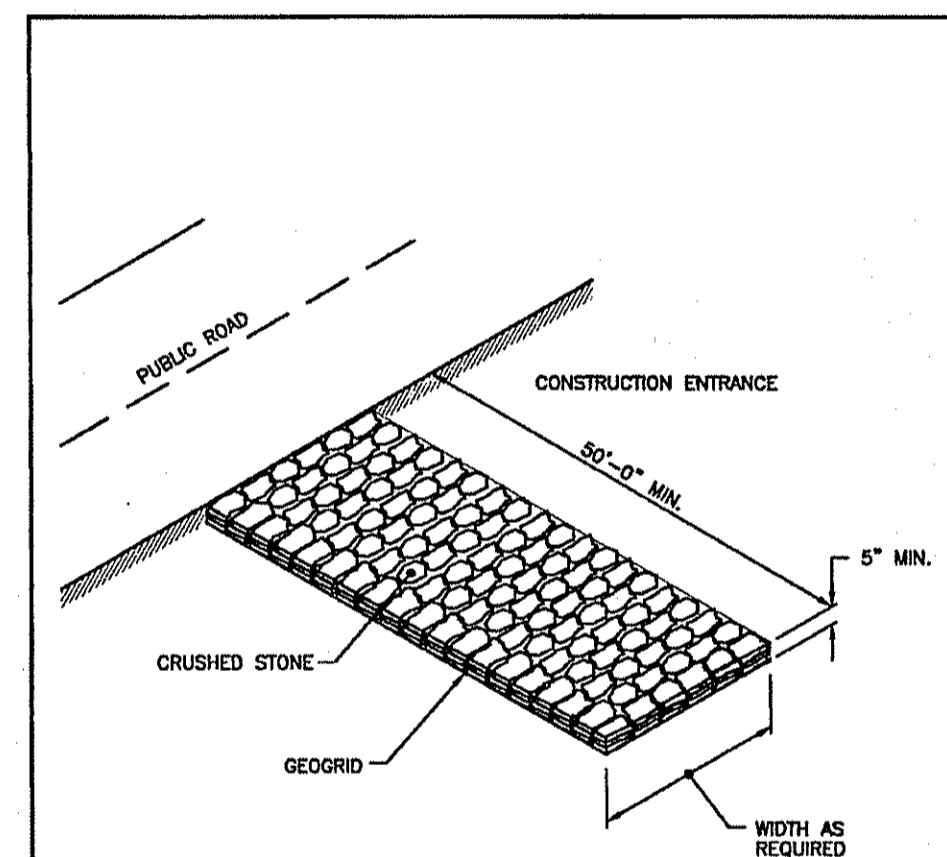
NOT TO SCALE



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 11, 2010 FILE # 17-0012
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Walter D. Weneck

RAIN GARDEN REQUIRED MAINTENANCE:

- MONTHLY:**
INSPECT AND REMOVE ANY TRASH
REMOVE ANY INVASIVE SPECIES PLANTS
- ANNUALLY:**
MULCH- SPRING, AS NEEDED
REPLACE ANY DEAD VEGETATION-SPRING
REMOVE DEAD VEGETATION-FALL OR SPRING
PRUNE-SPRING
- AS NEEDED:**
REPLACE SOIL MEDIA AND PLANTS WHEN PONDING DOES NOT SUBSIDE WITHIN 72 HRS
(CAREFUL MAINTENANCE SHOULD PROLONG THIS REQUIREMENT)
- *ALL PLANT MATERIAL SHALL BE WATERED AND MAINTAINED BY THE OWNER TO ASSURE THAT SUITABLE GROWTH HAS BEEN ESTABLISHED.



RHODE ISLAND DEPARTMENT OF TRANSPORTATION

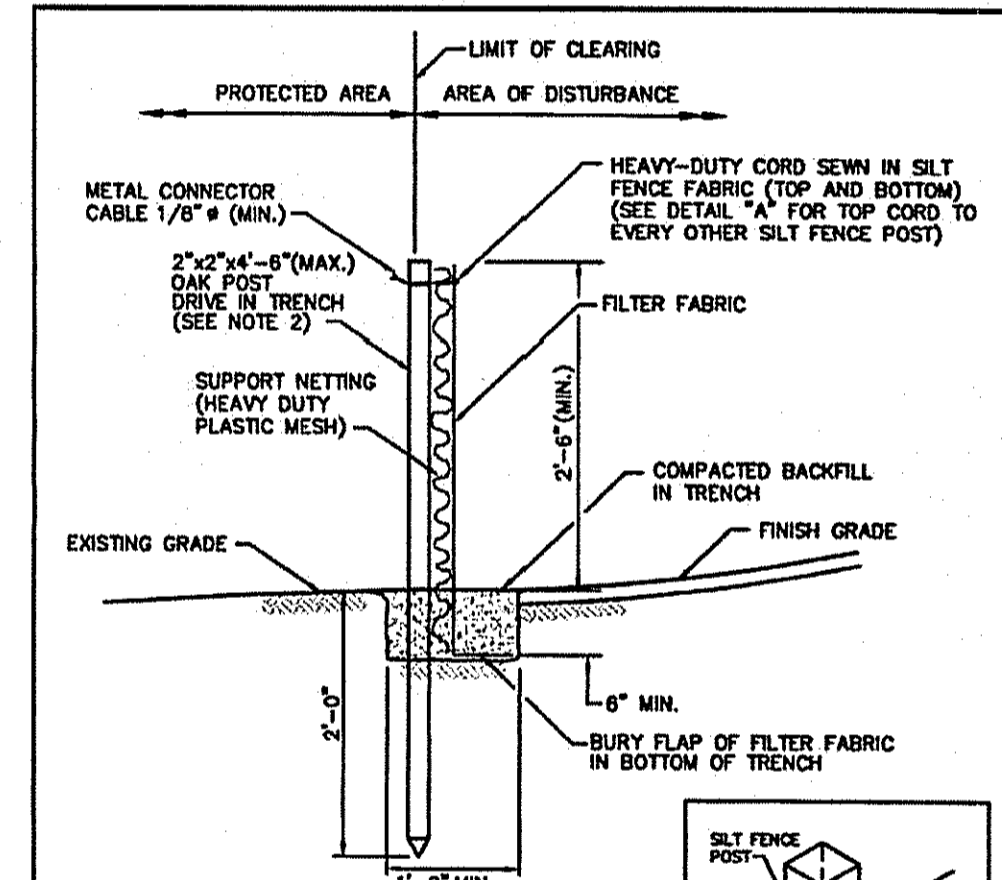
REVISIONS

NO.	BY	DATE

CONSTRUCTION ACCESS

John G. G... June 15, 1998

R.I. STANDARD 9.9.0



RHODE ISLAND DEPARTMENT OF TRANSPORTATION

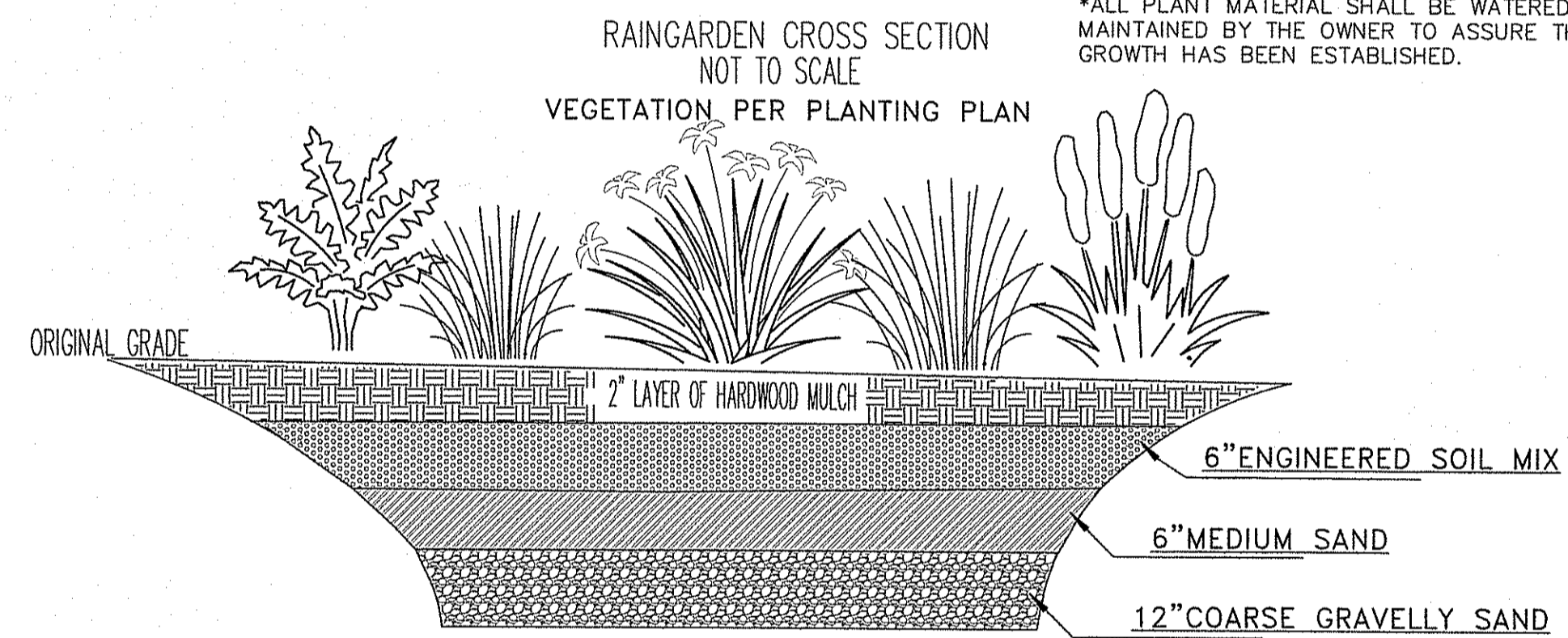
REVISIONS

NO.	BY	DATE

SILT FENCE DETAIL

John G. G... June 15, 1998

R.I. STANDARD 9.2.0



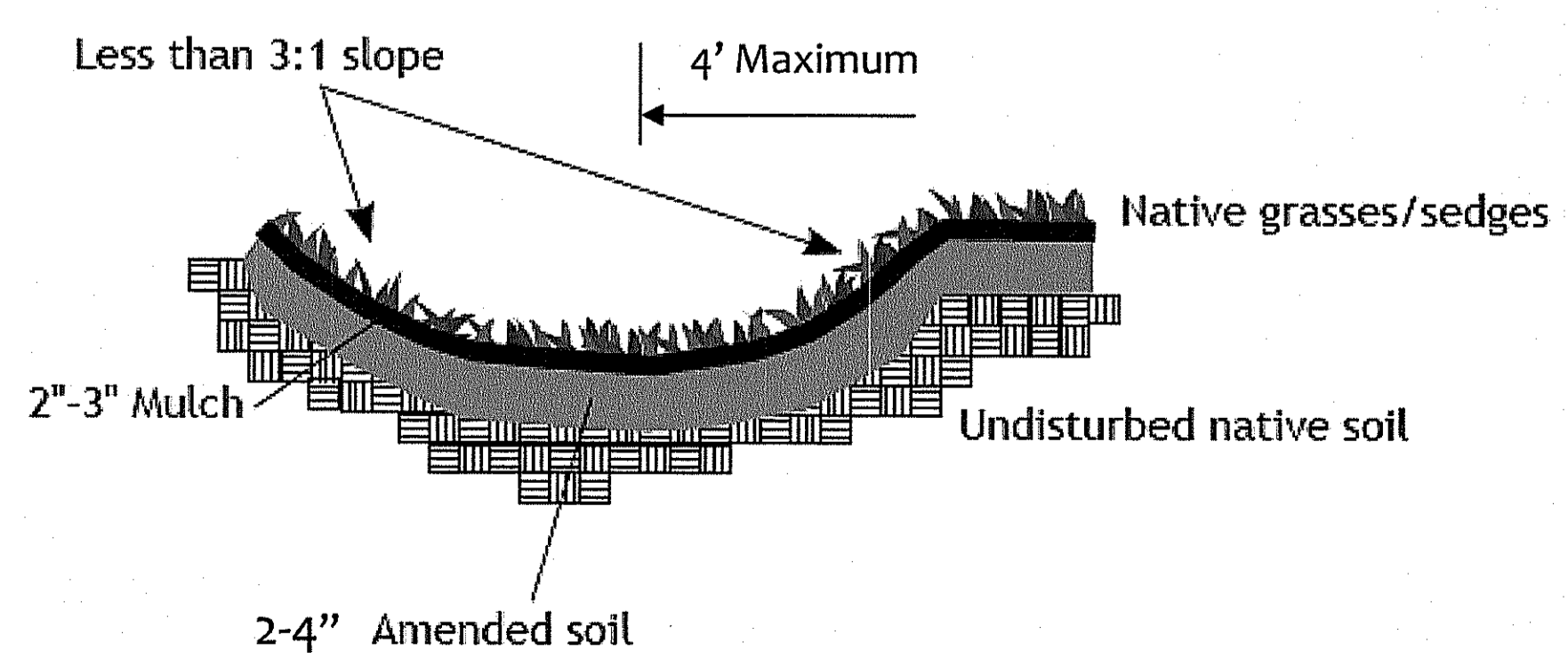
PLANT SCHEDULE

SYMBOL	SPECIES NAME	COMMON NAME
AD	ASTER DIVARICATUS	WHITE WOOD ASTER
CC	CAREX CRINITA	FRINGED SEDGE
CV	CAREX STRICTA	TUSsock SEDGE
LC	IRIS VERSICOLOR	BLUE FLAG IRIS
MS	LOBELIA CARDINALIS	CARDINAL FLOWER
OC	MATTEUCCIA STRUTHIOPTERIS	OSTRICH FERN
PC	OSMUNDA CINNAMOMEA	CINNAMON FERN
PC	PONTEFERIA CORDATA	PICKEREL PLANT

***RAINGARDEN ENGINEERED SOIL MIX:**
A UNIFORM MIX SHALL BE IMPORTED TO THE SITE CONSISTING OF:
40% SAND (ASTM D 422)
20-30% SAND LOAM TOPSOIL
MIN. 3% ORGANIC MATERIAL
<5% CLAY
<500 PPM SOLUBLE SALTS
30-40% COMPOST WITHOUT BIOSOLIDS
pH 5.5-6.5
FREE OF STONES & ORGANIC MATTER >2"
FREE OF ANY SYNTHETIC MATERIAL

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

VEGETATED SWALE TYPICAL CROSS SECTION NOT TO SCALE



VEGETATED SWALE TYPICAL MAINTENANCE

Maintenance	Description
<input type="checkbox"/>	Vegetated swales shall be inspected annually and should be inspected after large storm events.
<input type="checkbox"/>	Eroded side slopes and channel bottoms shall be stabilized as necessary.
<input type="checkbox"/>	If the surface of the dry swale becomes clogged to the point that standing water is observed on the surface 48 hours after precipitation events, the bottom shall be roto-tilled or cultivated to break up any hard-packed sediment, and then reseeded.
<input type="checkbox"/>	Vegetation in dry swales shall be mowed as required to maintain minimum grass heights in the 4-6 inch range.
<input type="checkbox"/>	Every five years, the channel bottom of dry swales should be scraped to remove sediment and to restore original cross section and infiltration rate, and should be seeded to restore ground cover, where necessary.

Thomas J. Principe, III
REGISTERED PROFESSIONAL ENGINEER

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RIDEM PRELIMINARY DETERMINATION APPLICATION- STORMWATER PLAN
for
AP 127 LOT 1
532 Paradise Avenue
in
MIDDLETOWN, RHODE ISLAND

SCALE: 1"=20' SHEET NO: 5 OF 5
DRAWN BY: TJP DESIGN BY: TJP CHECKED BY: TJP
DATE: 12/13/16 PROJECT NO.: 2016-1177

FEB 27 2017



LOCUS MAP
NOT TO SCALE

- DRAINAGE NOTES:**
- EXISTING GRAVEL DRIVEWAY SURFACE = 6,304 SF
 - PROPOSED GRAVELLY DRIVEWAY SURFACE = 0 SF
 - PROPOSED ASPHALT COURT = 2,320 SF
 - Stormwater BMP per RI Single Family Guidance Document:
 - Rain Garden #1 - 280 sf (371 sf required), 1,000 sf of drainage area.
 - Proposed Rain Garden #2 - 375 sf (371 sf required), 1,000 sf of drainage area.
 - Vegetated Swale, silty soils - 160 sf required per 1,000 sf of drainage area.
 - Vegetated Swale #1 = 295 sf
 - Vegetated Swale #2 = 270 sf
 - Total area provided for Chip Seal Driveway BMP's 845 sf (768 sf required).
 - PROPOSED CHIP SEAL DRIVEWAY = 4,800 SF
 - Stormwater BMP per RI Single Family Guidance Document:
 - Rain Garden #1 - 280 sf
 - Proposed Rain Garden #1 - 280 sf
 - Vegetated Swale, silty soils - 160 sf required per 1,000 sf of drainage area.
 - Vegetated Swale #1 = 295 sf
 - Vegetated Swale #2 = 270 sf
 - Total area provided for Chip Seal Driveway BMP's 845 sf (768 sf required).
 - PROPOSED DRAINAGE CATCHMENT OF NORTH SIDE OF HOUSE AND STUDIO = 316 SF
 - Stormwater BMP per RI Single Family Guidance Document:
 - Rain Garden #1 - 280 sf
 - Proposed Rain Garden #1 - 280 sf
 - Vegetated Swale, silty soils - 160 sf required per 1,000 sf of drainage area.
 - Vegetated Swale #1 = 295 sf
 - Vegetated Swale #2 = 270 sf
 - Total area provided for Chip Seal Driveway BMP's 845 sf (768 sf required).
 - PROPOSED DRAINAGE CATCHMENT OF SOUTH SIDE OF HOUSE = 336 SF
 - Stormwater BMP per RI Single Family Guidance Document:
 - Rain Garden #1 - 280 sf
 - Proposed Rain Garden #1 - 280 sf
 - Vegetated Swale, silty soils - 160 sf required per 1,000 sf of drainage area.
 - Vegetated Swale #1 = 295 sf
 - Vegetated Swale #2 = 270 sf
 - Total area provided for Chip Seal Driveway BMP's 845 sf (768 sf required).
 - PROPOSED DRAINAGE CATCHMENT OF NORTH AND SOUTHEAST PORTIONS OF HOUSE = 2,776 SF
 - Stormwater BMP per RI Single Family Guidance Document:
 - Rain Garden #1 - 280 sf
 - Proposed Rain Garden #1 - 280 sf
 - Vegetated Swale, silty soils - 160 sf required per 1,000 sf of drainage area.
 - Vegetated Swale #1 = 295 sf
 - Vegetated Swale #2 = 270 sf
 - Total area provided for Chip Seal Driveway BMP's 845 sf (768 sf required).
- * Note: vegetated swales to be 1' deep with side slopes 3:1.

DEPARTMENT OF ENVIRONMENT & PLANNING
OFFICE OF WATER RESOURCES PROGRAM
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 20 2018 FILE # 17-00-011
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED BY: *Thomas J. Principe, III*

SOIL TESTING RESULTS:
CONDUCTED BY: THOMAS J. PRINCIPE, III, PE

- TP-1**
Ap-0-12, FSL
B, 12-26, SL
C, 26-66, SIL (Cat. 9)
ESHGWT @ 42"
LEDGE AT 66"
- TP-2**
Ap-0-14, FSL
B, 14-22, SL
C, 22-60, SIL (Cat. 9)
ESHGWT @ 36"
LEDGE AT 60"
- TP-3**
24-0- HTM
0-36- Cg, SIL
ESHGWT 0" (from O.G.)
- LT-A:** 48" LEDGE
LT-B: 60" LEDGE
LT-C: 66" LEDGE
LT-D: 66" LEDGE

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REVISIONS

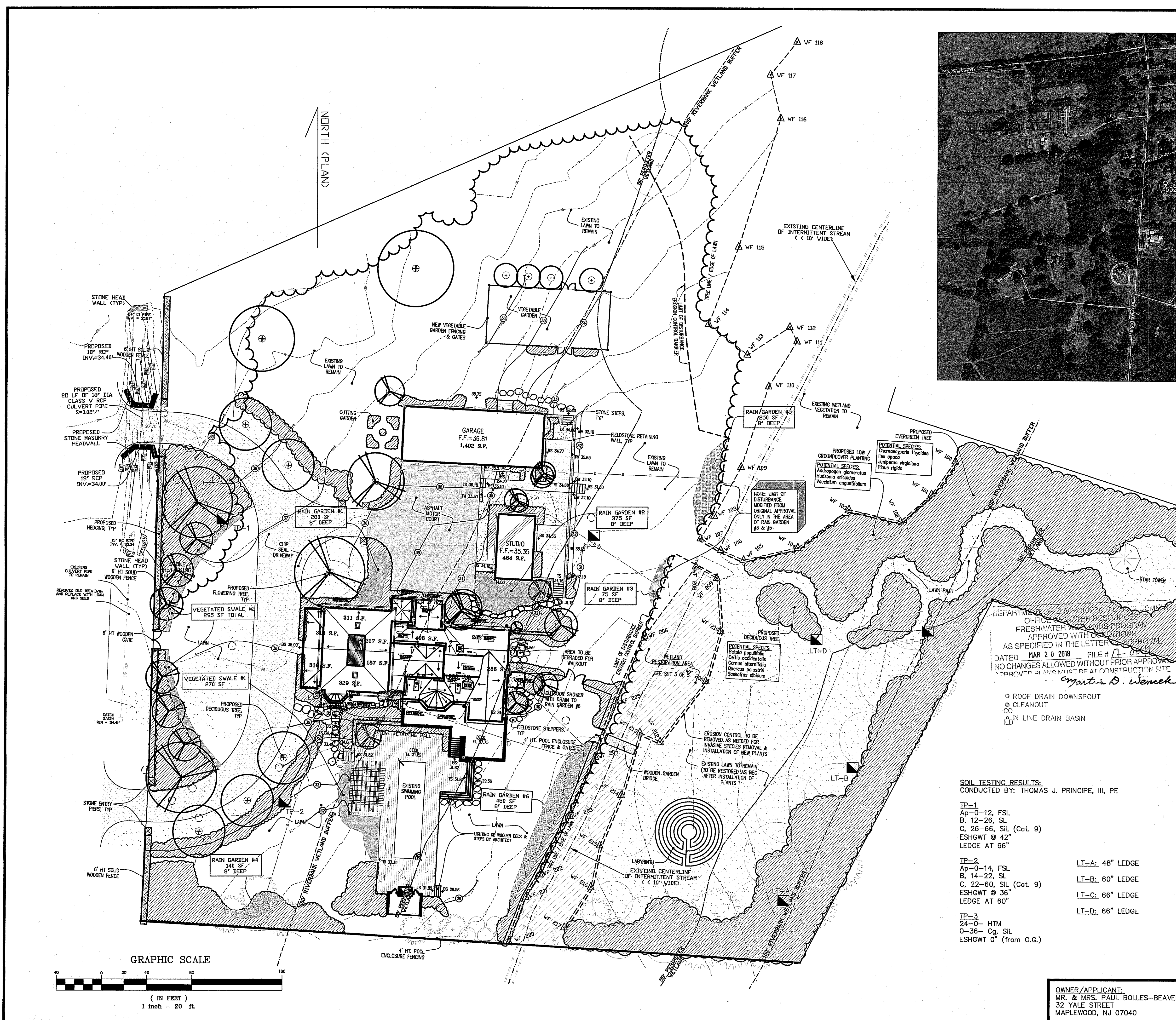
No.	DATE	DRWN	CHKD

STORMWATER PLAN
for
AP 127 LOT 1
532 Paradise Avenue
in
MIDDLETOWN, RHODE ISLAND

MAR - 1 2018
Office of Water Resources

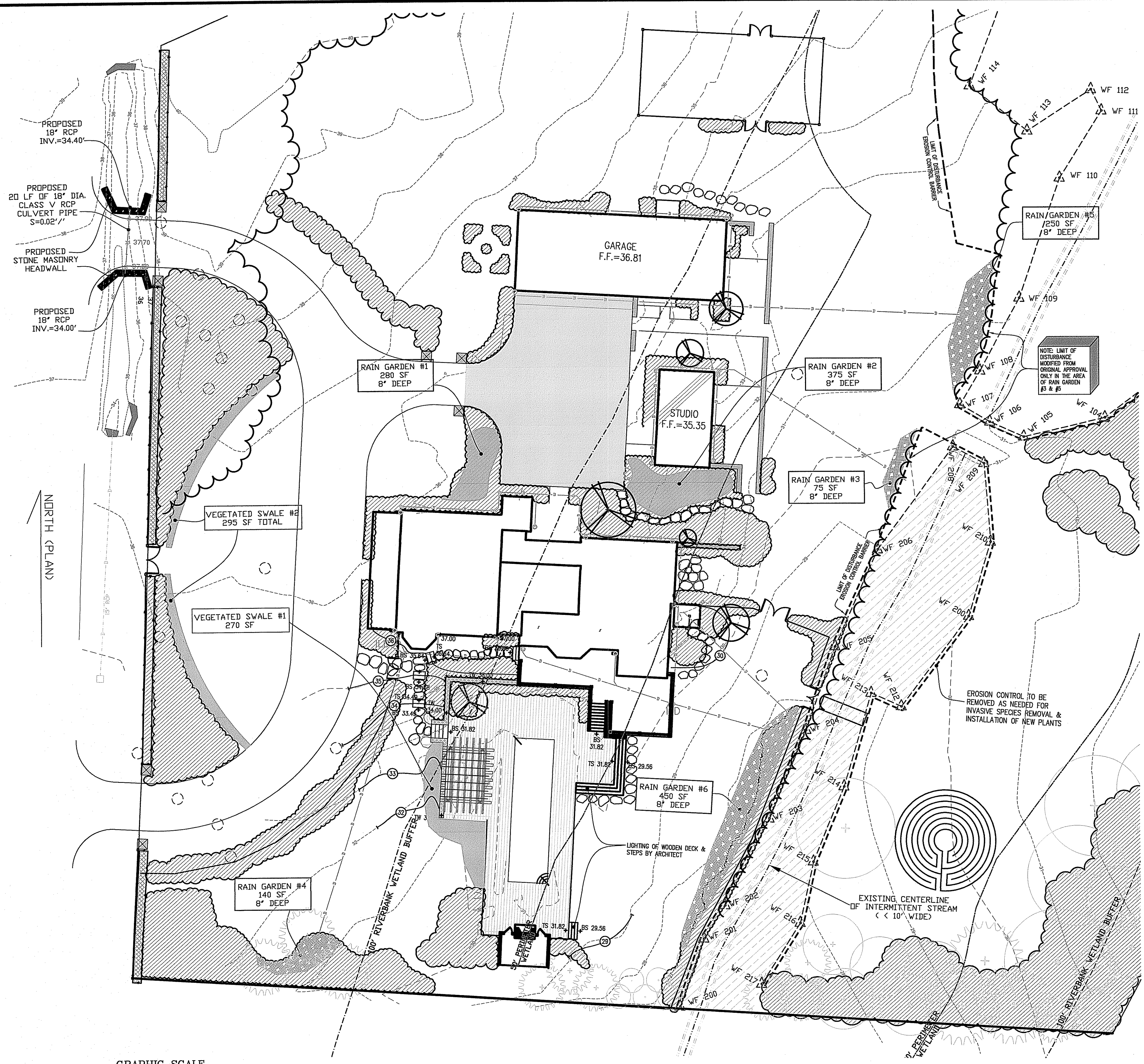
SCALE: 1"=20'	SHEET NO: 1 OF 3
DRAWN BY: TJP	DESIGN BY: TJP
DATE: 12/27/17	CHECKED BY: TJP
PROJECT NO: DRAINAGE BOLLIS	

OWNER/APPLICANT:
MR. & MRS. PAUL BOLLES-BEAVEN
32 YALE STREET
MAPLEWOOD, NJ 07040

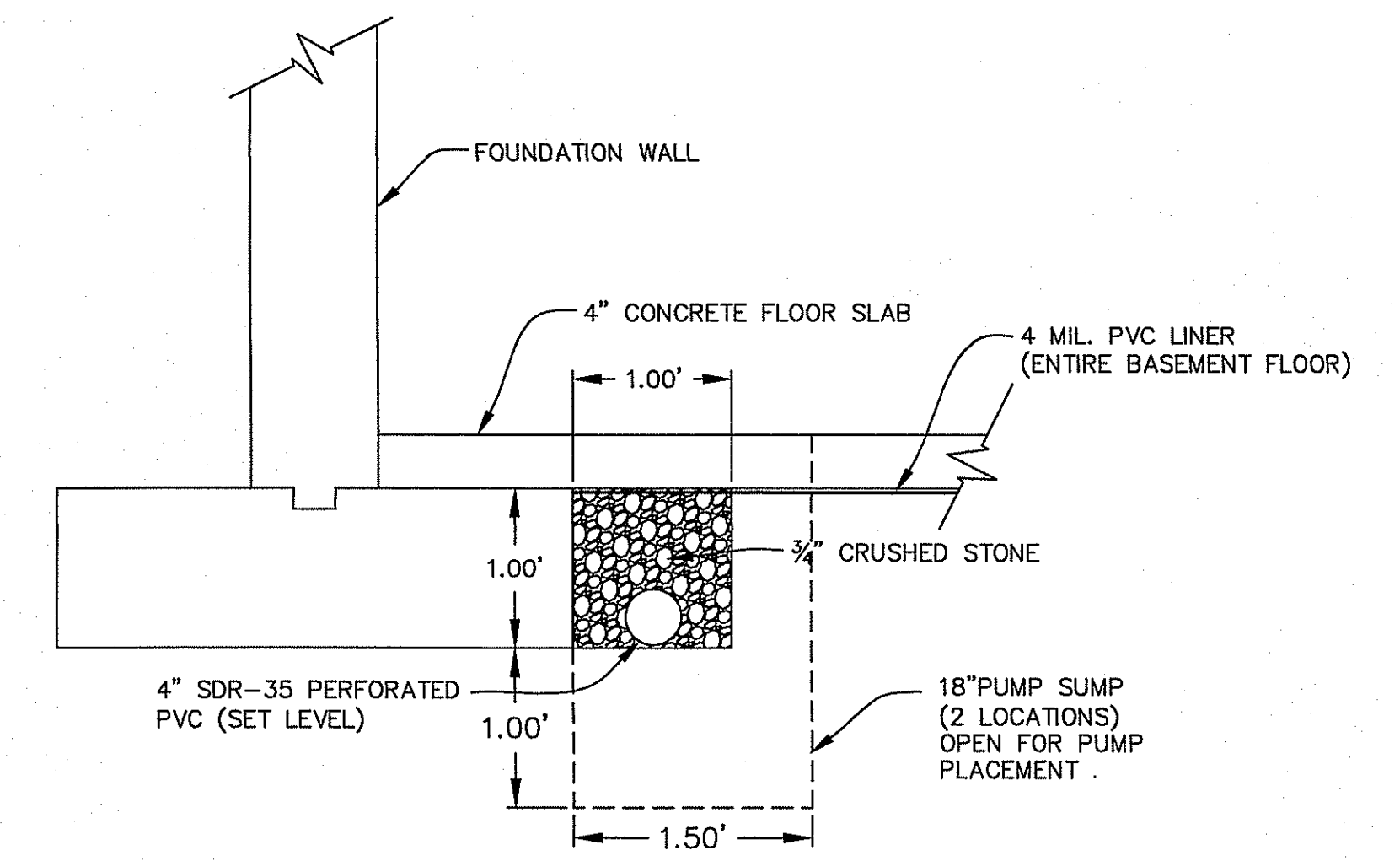
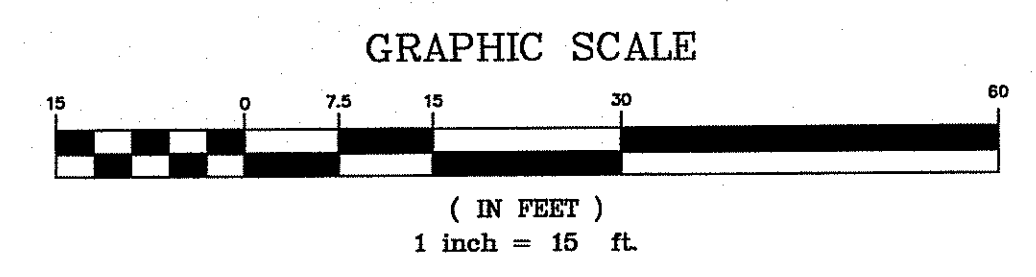


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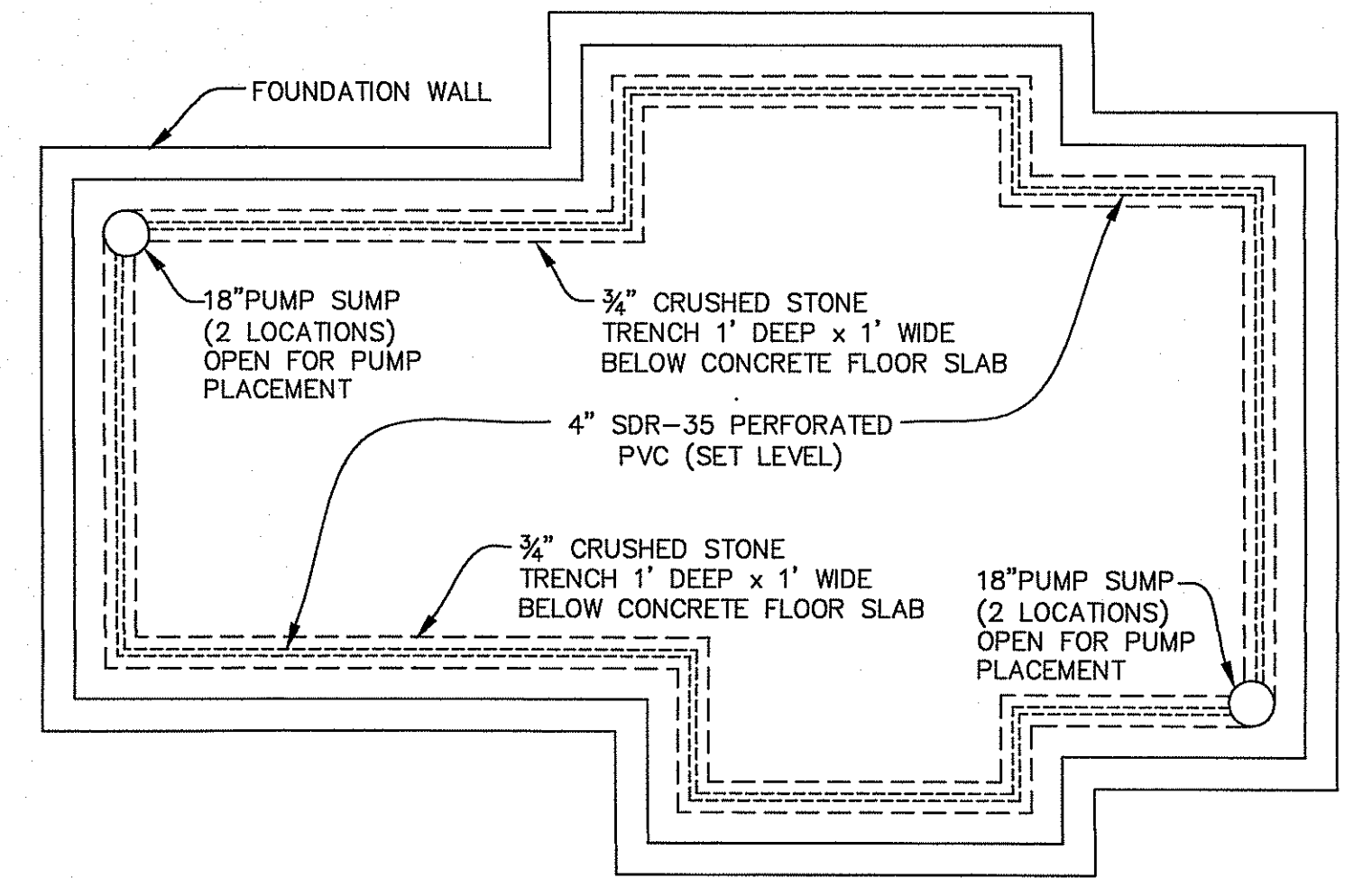
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NORTH PLAN



INTERIOR BASEMENT TRENCH DRAIN
TYPICAL SECTION VIEW
NOT TO SCALE



INTERIOR BASEMENT TRENCH DRAIN
PLAN SECTION VIEW
NOT TO SCALE

- ROOF DRAIN DOWNSPOUT
- CLEANOUT
- IN LINE DRAIN BASIN
- LD

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 20 2018 FILE # 17-047
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE:

Martin D. Wenczek

STORMWATER PIPING PLAN

Thomas J. Principe, III
No. 9107
REGISTERED PROFESSIONAL ENGINEER

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REVISIONS

No.	DATE	DRWN	CHKD

STORMWATER PLAN
for
AP 127 LOT 1
532 Paradise Avenue
in
MIDDLETOWN, RHODE ISLAND

SCALE: 1"=15'	SHEET NO: 2 OF 3
DRAWN BY: TJP	DESIGN BY: TJP
DATE: 12/27/17	CHECKED BY: TJP
OWNER/APPLICANT: MR. & MRS. PAUL BOLLES-BEAVER 32 YALE STREET MAPLEWOOD, NJ 07040	PROJECT NO: DRAINAGE BOLLIS

VEGETATIVE COVER AND PLANTING

1. THE NORMAL ACCEPTABLE SEASONABLE SEEDING DATES ARE APRIL 1ST THROUGH OCTOBER 15TH.
 2. TOP SOIL FOR PERMANENT OR LONG TERM TEMPORARY SEEDING SHOULD HAVE A SANDY LOAM TEXTURE, RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS. TOP SOIL SHALL CONFORM WITH RHODE ISLAND SPECIFICATIONS M18.01.
 3. THE DESIGN SEED MIX UTILIZED IN ALL DISTURBED AREAS TO BE SEEDDED SHALL BE COMPRISED OF THE FOLLOWING:
- | TYPE | % BY WEIGHT | SEEDING DATE |
|---------------------|-------------|------------------------|
| CREeping RED FESCUE | 70 | |
| ASTORIA BENTGRASS | 5 | APRIL 1 - JUNE 15 |
| BIRDFOOT TREFOIL | 15 | AUGUST 15 - OCTOBER 15 |
| PERENNIAL RYE GRASS | 10 | |
- APPLICATION RATE - 100 LBS PER ACRE

SEED MIX SHALL BE INOCULATED WITHIN 24 - HOURS BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULATION FOR EACH SEED VARIETY. ALTERNATE SEED TYPES DUE TO SITE SPECIFIC CONDITIONS AND SOILS ARE ACCEPTABLE WITH THE ENGINEER'S APPROVAL.

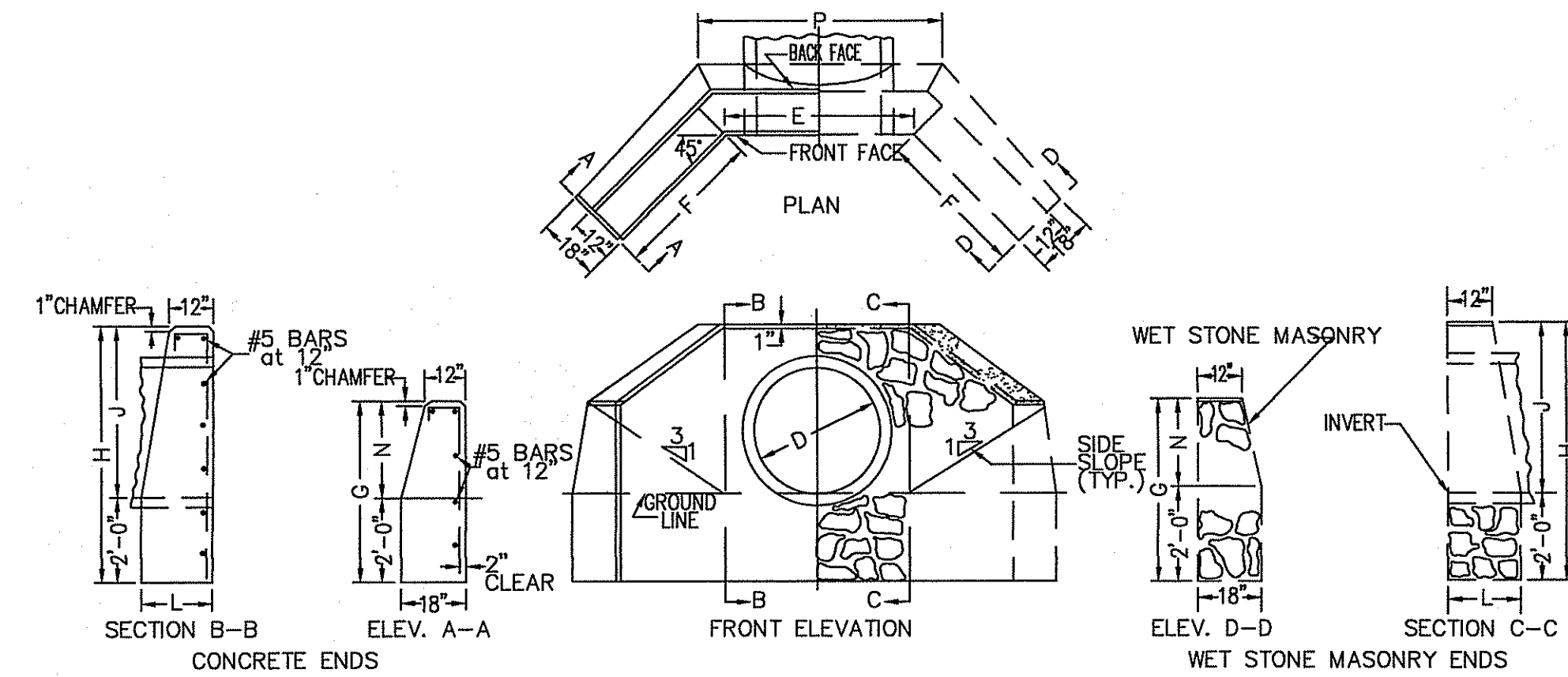
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5. THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY PERMANENT VEGETATIVE COVER AREAS THAT DO NOT DEVELOP OR WHICH ERODE WITHIN A ONE (1) YEAR PERIOD.

EROSION CONTROL, SOIL STABILIZATION AND SEDIMENT CONTROL PLAN

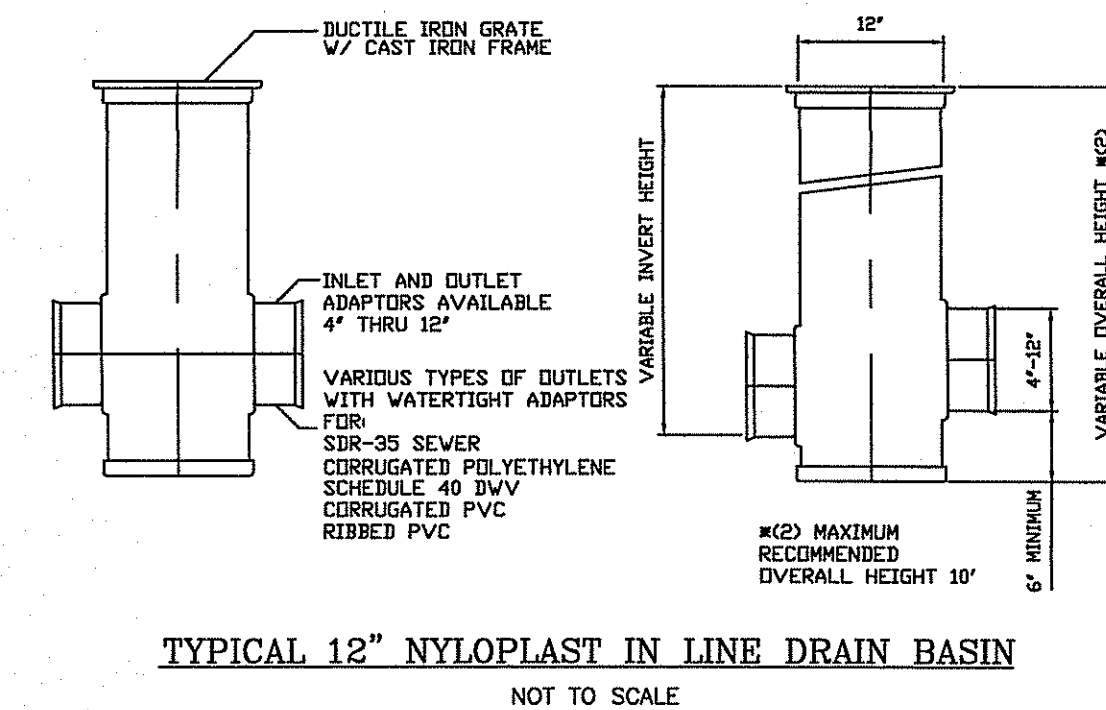
1. PRIOR TO THE COMMENCEMENT OF ANY CLEARING, GRUBBING, DEMOLITION OR EARTHWORK ACTIVITY, TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE PLANS ARE TO BE INSTALLED BY THE CONTRACTOR.
2. CONSTRUCTION ACCESS STABILIZATION ENTRANCE PADS ARE TO BE INSTALLED PRIOR TO THE COMMENCEMENT OF SITE GRUBBING OR EARTHWORK ACTIVITY.
3. EXISTING CATCH BASINS ARE TO BE PROTECTED WITH HAY BALES AND/OR SILT SACS PRIOR TO THE START OF SITE GRUBBING, EARTHWORK OR UNDERGROUND UTILITY AND DRAINAGE INFRASTRUCTURE INSTALLATION TO SERVE THE DEVELOPMENT SITE.
4. THE PROJECT CONSTRUCTION SEQUENCE, TO THE EXTENT PRACTICAL, SHOULD REQUIRE THE INSTALLATION OF DOWN GRADE AND OFF SITE STORM DRAINAGE SYSTEM IMPROVEMENTS BEFORE THE START OF SITE GRUBBING AND EARTHWORK ACTIVITY.
5. TEMPORARY SITE SLOPE TREATMENTS FOR SOIL STABILIZATION SHALL CONSIST OF HAY, STRAW, FIBER MULCH, RIP RAP OR PROTECTIVE COVERS SUCH AS MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, AND EXCELSIOR OR EQUAL PRODUCTS). THESE AND OTHER ACCEPTABLE MEASURES SHALL BE INCORPORATED INTO THE SITE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER.
6. CONSTRUCTION SITES ARE DYNAMIC, THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND OR MOVEMENT AND MAINTENANCE OF EROSION CONTROLS, SOIL STABILIZATION AND SEDIMENT CONTROL MEASURES AS NEEDED TO MAXIMIZE THE INTENT OF THE PLAN FOR ALL SITE CONDITIONS THROUGHOUT THE CONSTRUCTION PERIOD.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERIODIC INSPECTION, MAINTENANCE, REPAIR, AND REPLACEMENT OF EROSION CONTROLS, SOIL STABILIZATION AND SEDIMENT CONTROL DEVICES UNTIL AN ACCEPTABLE PERMANENT VEGETATIVE GROWTH IS ESTABLISHED. THE CONTRACTOR SHALL MAINTAIN A DETAIL LOG OF ALL EROSION CONTROL INSPECTIONS, COMPLAINTS RELATED TO EROSION OR SEDIMENT, AND CORRECTIVE REMEDIAL MEASURES TAKEN THROUGHOUT THE COURSE OF THE PROJECT CONSTRUCTION.
8. SOIL EROSION AND SEDIMENT CONTROL IS NOT LIMITED TO DAMAGES CAUSED BY WATER BUT ALSO INCLUDES EROSION AND SEDIMENT RESULTING FROM WINDS. MEASURES, SUCH AS TEMPORARY GROUND COVERS, WATER AND CALCIUM APPLICATIONS ARE TO BE UNDERTAKEN AS NEEDED TO MINIMIZE WIND RELATED SOIL AND DUST CONTROL.
9. STOCK PILES OF EARTH MATERIALS SHALL NOT BE LOCATED NEAR WATERWAYS OR WETLANDS. STOCK PILES SHALL HAVE SIDE SLOPES NO GREATER THAN THIRTY PERCENT (30%). STOCK PILES SHALL BE SURROUNDED ON THE DOWN GRADIENT OF THE EXISTING GROUND SURFACE BY HAY BALES OR SILT FENCE. THE STOCK PILES SHALL ALSO BE SEEDDED OR STABILIZED IN SOME MANNER TO PREVENT SOIL EROSION.
10. THE SMALLEST POSSIBLE SITE AREAS SHALL BE DISTURBED OR EXPOSED AT ONE TIME AND DENUDED SLOPES OR WORK AREAS SHALL NOT BE LEFT EXPOSED FOR EXCESSIVE PERIODS OF TIME, SUCH AS INACTIVE PERIODS OR SITE WORK SHUT DOWNS.
11. TO THE EXTENT POSSIBLE, ALL DISTURBED AREAS MUST BE SEEDDED OR STABILIZED WITHIN THE CONSTRUCTION SEASON. STABILIZATION OF ONE FORM OR ANOTHER SHALL BE ACHIEVED WITHIN FIFTEEN (15) DAYS OF FINAL GRADING.
12. EXPOSED STEEP OR LONG SLOPES SHOULD BE TREATED WITH "CRIMPING" OR "TRACKING" TO REDUCE EROSION AND SEDIMENT AND TO TACK DOWN SEEDING OR MULCH APPLICATIONS.
13. IF CONCRETE IS TO BE USED ON SITE, THE CONTRACTOR MUST ESTABLISH AND MAINTAIN SPECIFIC WASHOUT AREAS FOR THE CONCRETE TRUCKS WITH APPROPRIATE PROTECTION CONTROLS.
14. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING COLLECTION AND STORAGE LOCATIONS ON-SITE FOR ALL CONSTRUCTION DEBRIS AND TRASH SO THAT THIS MATERIAL DOES NOT BECOME A NEIGHBORHOOD NUISANCE.
15. EXISTING TREES AND VEGETATION WILL BE RETAINED WHENEVER FEASIBLE.
16. SITE SOIL EROSION AND SOIL STABILIZATION AND SEDIMENT CONTROLS MUST CONFORM TO ALL REQUIREMENTS OF THE APPLICABLE LOCAL COMMUNITY ORDINANCES AND STATE REGULATIONS.

GENERAL NOTES:

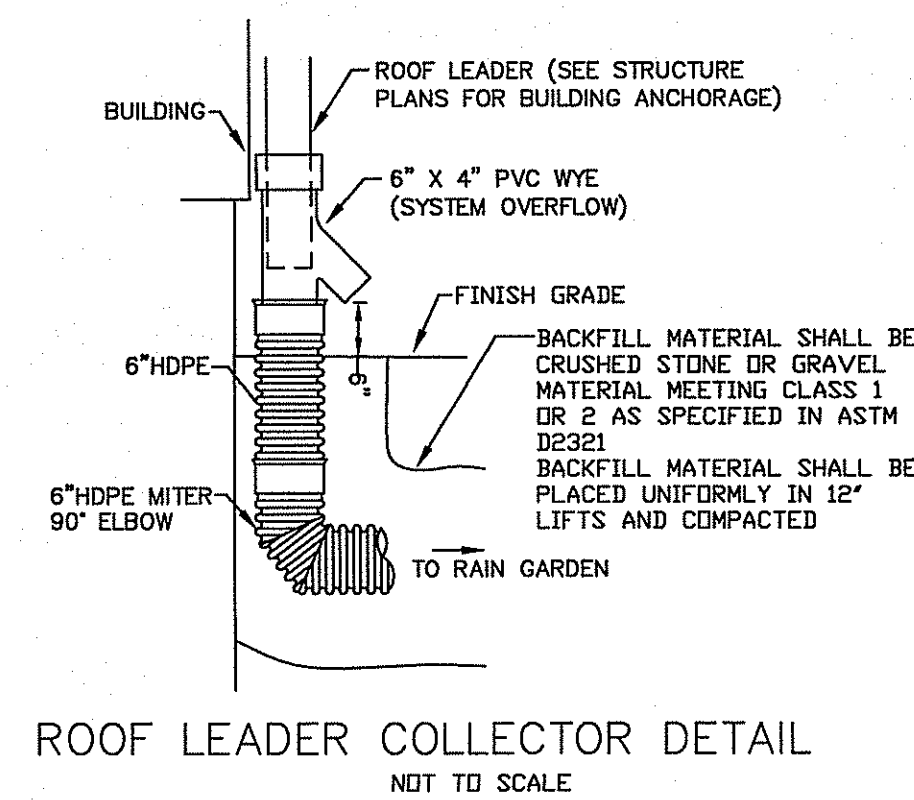
1. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO FAMILIARIZE HIMSELF WITH ANY APPLICABLE LOCAL, STATE AND FEDERAL LAWS GOVERNING HIS INTENDED ACTIVITIES. OSHA REGULATIONS ARE APPLICABLE OF PROJECT SITE CONSTRUCTION ACTIVITIES.
2. ALL CONSTRUCTION WILL BE UNDERTAKEN IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE TOWN OF BRISTOL.
3. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF ALL EXISTING UTILITIES, STRUCTURES, AND ABUTTING PROPERTIES. THE COST OF ANY REPAIR OR REPLACEMENT OF DAMAGED ITEMS SHALL BE BORNE BY THE CONTRACTOR.
4. IF THE MUNICIPALITY REQUIRES A PROJECT PRE-CONSTRUCTION CONFERENCE, THE PROJECT DEVELOPER AND THE PROJECT CONTRACTOR WILL ATTEND AND WILL PROVIDE ALL REQUESTED MATERIALS PRIOR TO COMMENCING ANY WORK.
5. IF CEMENT CONCRETE MIX TRUCKS ARE TO BE WASHED OUT ON SITE, THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING A WASH OUT AREA WITH APPROPRIATE PROTECTION CONTROLS.
6. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING COLLECTION AND STORAGE LOCATIONS ON-SITE FOR ALL CONSTRUCTION DEBRIS AND TRASH SO THAT THIS MATERIAL DOES NOT BECOME A NEIGHBORHOOD NUISANCE.



CONCRETE AND WET STONE MASONRY HEADWALL / WINGWALL DETAILS NOT TO SCALE



TYPICAL 12" NYLOPLAST IN-LINE DRAIN BASIN NOT TO SCALE



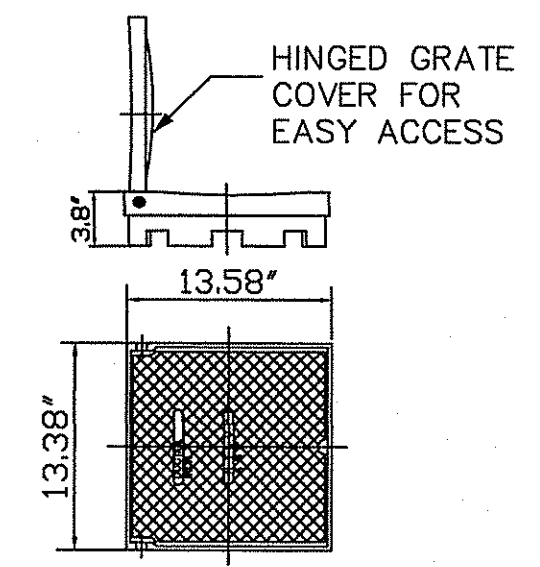
ROOF LEADER COLLECTOR DETAIL NOT TO SCALE

D	E	F	G	H	J	L	N	P
12"	2'-6"	4'-8"	3'-2"	0'-7"	0'-11"	6'-11"	2'-3"	5'
15"	2'-9"	4'-11"	3'-4"	3'-7"	3'-11"	6'-11"	3'-3"	9'
18"	3'-0"	5'-4"	4'-7"	4'-11"	5'-11"	6'-11"	4'-4"	1'
21"	3'-3"	6'-0"	5'-4"	5'-7"	6'-11"	6'-11"	4'-4"	4'
24"	3'-6"	6'-7"	6'-0"	6'-4"	6'-11"	6'-11"	4'-4"	7'
30"	4'-0"	7'-4"	6'-7"	7'-0"	7'-11"	6'-11"	4'-4"	3'
36"	4'-6"	8'-0"	7'-4"	7'-11"	8'-11"	6'-11"	4'-4"	11'
42"	5'-0"	8'-7"	8'-0"	8'-4"	8'-11"	6'-11"	4'-4"	6'
48"	5'-6"	9'-4"	8'-7"	8'-11"	9'-11"	6'-11"	4'-4"	2'

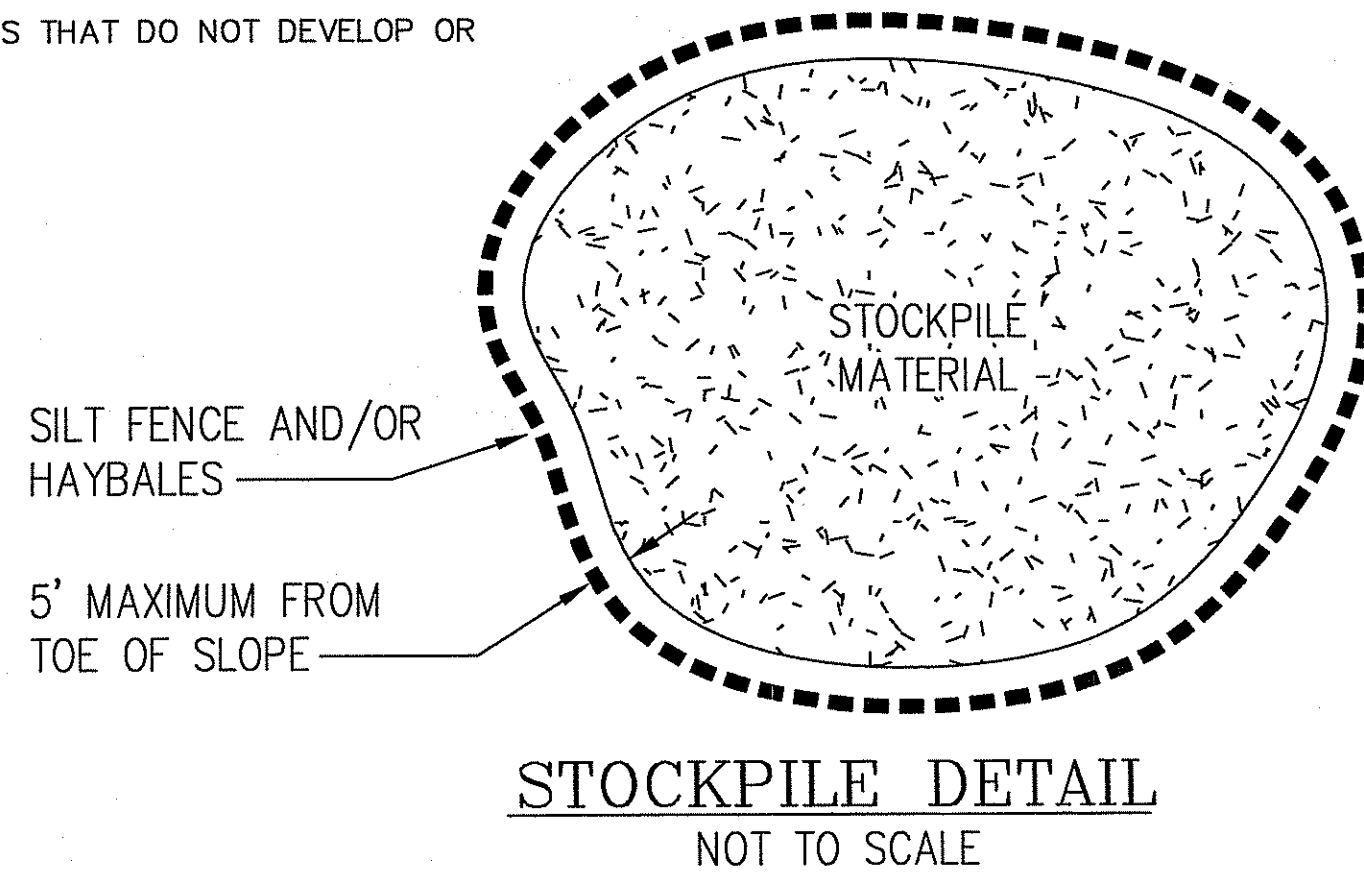
1. ALL CONCRETE DIMENSIONS SHOWN ARE MINIMUM
2. CONCRETE SHALL BE 4000 P.S.I. MINIMUM
3. ALL REINFORCING SHALL BE #5 MINIMUM
4. ALL REINFORCING BARS SHALL BE EPOXY COATED
5. INDICATED DIMENSIONS ARE MINIMUM UNLESS NOTED OTHERWISE ON PLANS.

NYLOPLAST 12" COVER

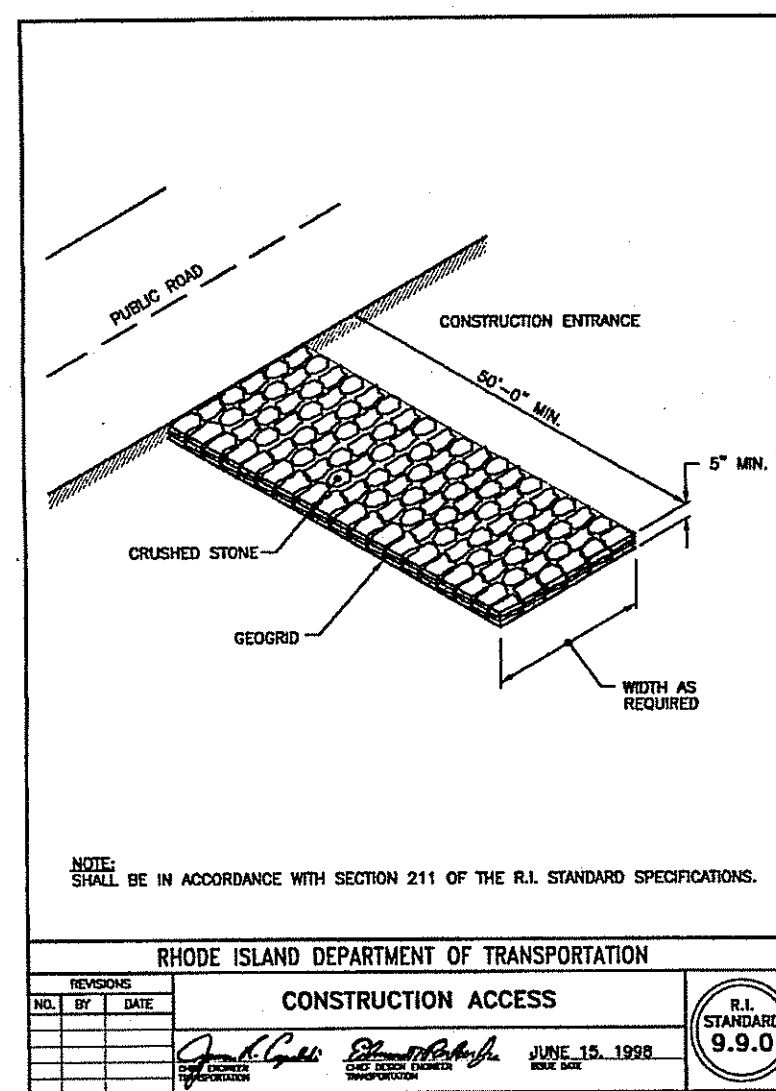
SOLID COVER HAS H-25 HEAVY DUTY RATING QUALITY. MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05 & A48-CLASS 30B MATERIAL: DUCTILE IRON GRATE W/CAST IRON FRAME
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
LOCKING DEVICE AVAILABLE UPON REQUEST



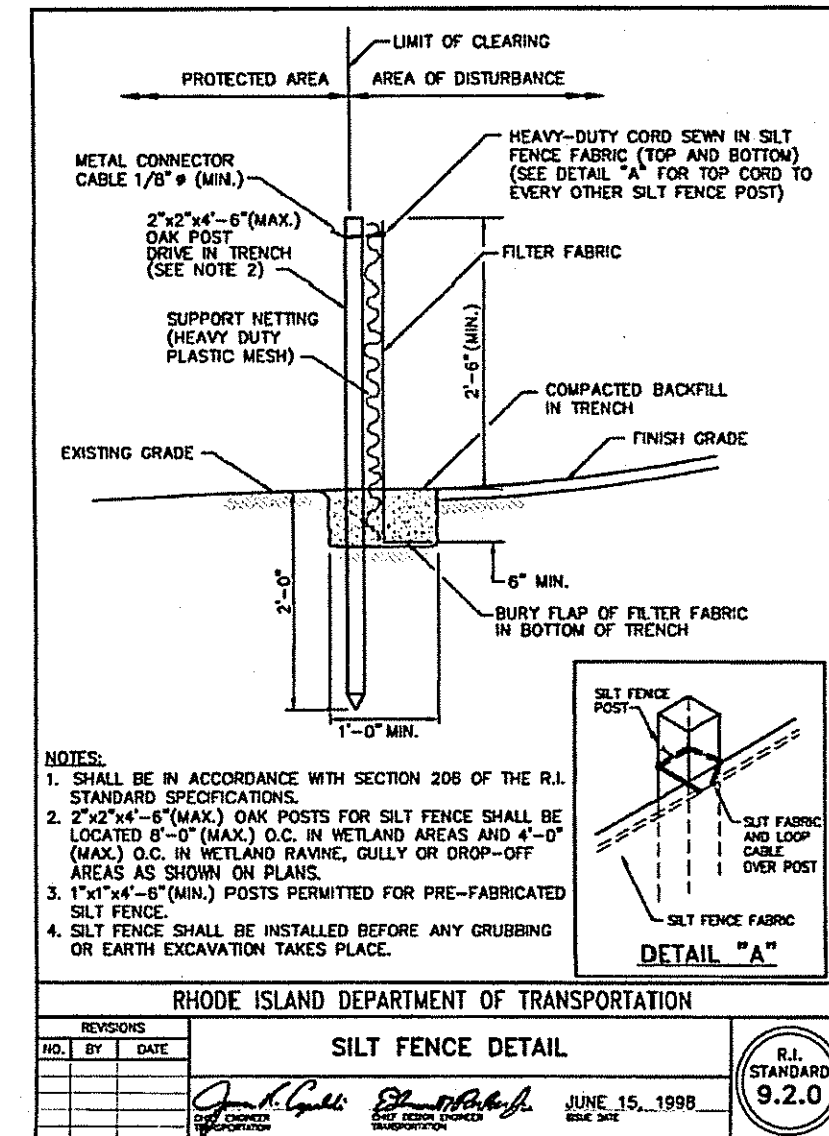
APPROX. WEIGHT WITH FRAME = 39.90 LBS.



STOCKPILE DETAIL NOT TO SCALE



RHODE ISLAND DEPARTMENT OF TRANSPORTATION CONSTRUCTION ACCESS



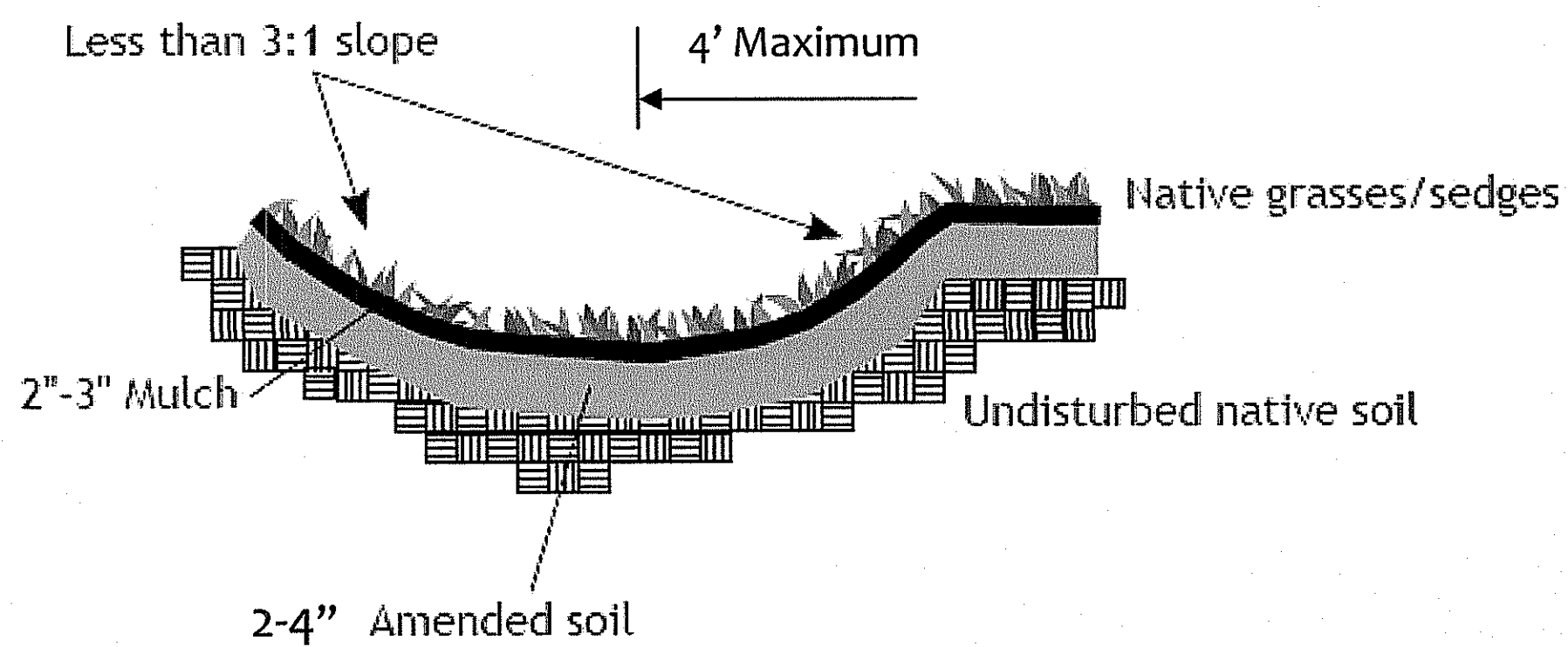
RHODE ISLAND DEPARTMENT OF TRANSPORTATION SILT FENCE DETAIL

RAIN GARDEN REQUIRED MAINTENANCE:

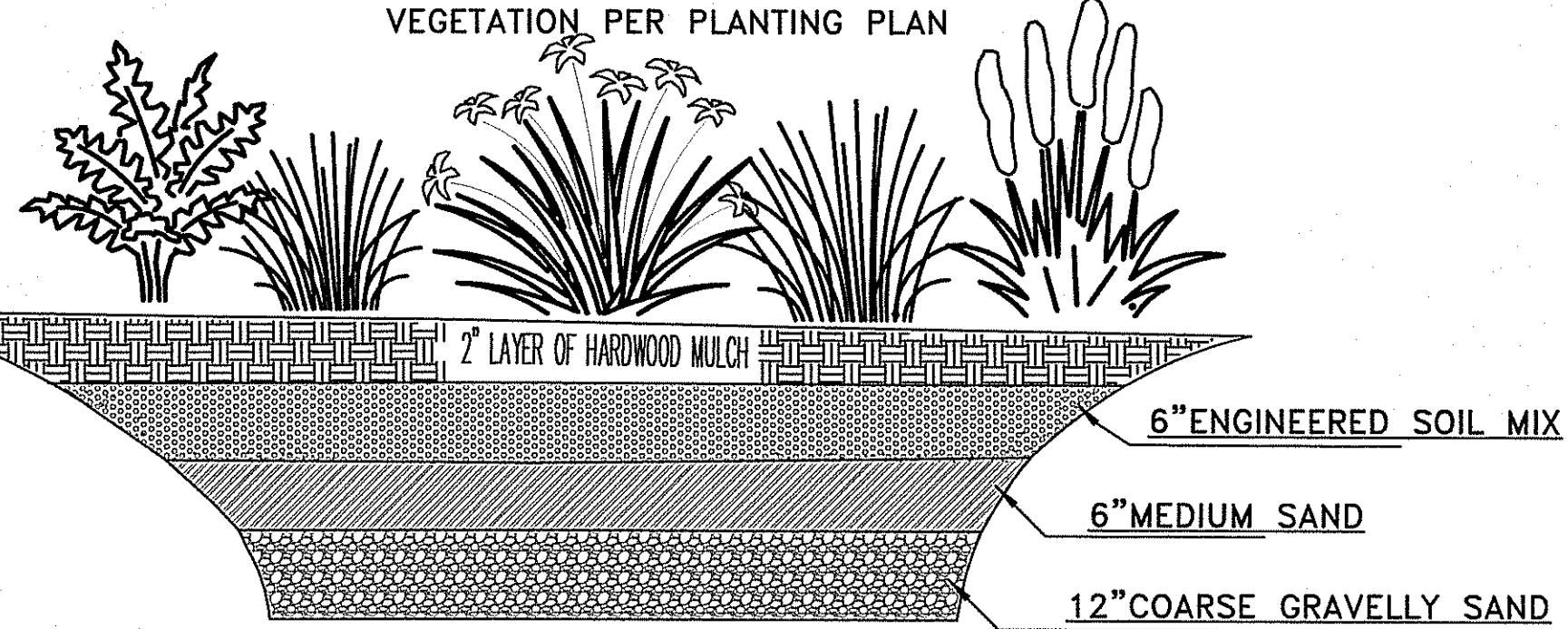
- MONTHLY:**
INSPECT AND REMOVE ANY TRASH
REMOVE ANY INVASIVE SPECIES PLANTS
- ANNUALLY:**
MULCH- SPRING, AS NEEDED
REPLACE ANY DEAD VEGETATION-SPRING
REMOVE DEAD VEGETATION-FALL OR SPRING
PRUNE-SPRING
- AS NEEDED:**
REPLACE SOIL MEDIA AND PLANTS WHEN PONDING DOES NOT SUBSIDE WITHIN 72 HRS
(CAREFUL MAINTENANCE SHOULD PROLONG THIS REQUIREMENT)

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
*ALL PLANT MATERIAL SHALL BE WATERED AND WATER RESOURCES MAINTAINED BY THE OWNER TO ASSURE THAT SUITABLE GROWTH PROGRAM GROWTH HAS BEEN ESTABLISHED.
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 20 2018 FILE # 17-0042
APPROVED BY: *Walter D. Wenzel*

VEGETATED SWALE TYPICAL CROSS SECTION NOT TO SCALE



- VEGETATED SWALE TYPICAL MAINTENANCE**
- Maintenance**
- Vegetated swales shall be inspected annually and should be inspected after large storm events.
 - Eroded side slopes and channel bottoms shall be stabilized as necessary.
 - If the surface of the dry swale becomes clogged to the point that standing water is observed on the surface 48 hours after precipitation events, the bottom shall be roto-tilled or cultivated to break up any hard-packed sediment, and then reseeded.
 - Vegetation in dry swales shall be mowed as required to maintain minimum grass heights in the 4-6 inch range.
 - Every five years, the channel bottom of dry swales should be scraped to remove sediment and to restore original cross section and infiltration rate, and should be seeded to restore ground cover, where necessary.



PLANT SCHEDULE

SPECIES NAME	COMMON NAME
ASTER DIVARICATUS	WHITE WOOD ASTER
CAREX CRINITA	FRINGED SEDGE
CAREX STRICTA	TUSsock SEDGE
IRIS VERSICOLOR	BLUE FLAG IRIS
LOBELIA CARDINALIS	CARDINAL FLOWER
MATTEUCCIA STRUTHIOPTERIS	OSTRICH FERN
OSMUNDA CINNAMOMEA	CINNAMON FERN
PONTERDERIA CORDATA	PICKEREL PLANT

***RAIN GARDEN ENGINEERED SOIL MIX:**
A UNIFORM MIX SHALL BE IMPORTED TO THE SITE CONSISTING OF:
40% SAND (ASTM D 422)
20-30% SAND LOAM TOPSOIL
MIN. 3% ORGANIC MATERIAL
<5% CLAY
<500 PPM SOLUBLE SALTS
30-40% COMPOST WITHOUT BIOSOLIDS
PH 5.5-6.5
FREE OF STONES & ORGANIC MATTER >2"
FREE OF ANY SYNTHETIC MATERIAL

Thomas J. Principe, III
No. 1107
REGISTERED PROFESSIONAL ENGINEER

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ENGINEERING DIVISION
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401.816.5385
PRINCIPEENGINEERING@GMAIL.COM
WWW.PRINCIPEENGINEERING.COM

REVISIONS

No.	DATE	DRWN	CHKD

STORMWATER PLAN
for
AP 127 LOT 1
532 Paradise Avenue
in
MIDDLETOWN, RHODE ISLAND

SCALE: 1"=20'	SHEET NO: 3 OF 3
DRAWN BY: TJP	DESIGN BY: TJP
DATE: 12/27/17	CHECKED BY: TJP
PROJECT NO.: DRAINAGE BOLLIS	