

SITE/CIVIL
LAND PLANNING
WATER FRONT
SURVEYING
GEOTECHNICAL
ENVIRONMENTAL
TRANSPORTATION
STRUCTURAL

A KNOWLEDGE CORPORATION®
55 JOHN CLARKE ROAD MIDDLETOWN RHODE ISLAND 02842
PHONE (401) 849-0810 FAX (401) 846-4169
WWW.NORTHEASTENGINEERS.COM

- NOTES**
- EXISTING CONDITIONS ARE A RESULT OF AN AERIAL SURVEY BY EASTERN TOPOGRAPHICS. PHOTO DATE APR 20, 1995 AND COMPILED IN DEC 2010. GROUND CONTROL AND FIELD EDITS PROVIDED BY NORTHEAST ENGINEERS & CONSULTANTS, INC.
 - ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING PLANS. NEAC 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 DISSAFE PRIOR TO CONSTRUCTION AT 1-888-344-7233, AND/OR ALL LOCAL UTILITY COMPANIES).
 - WETLAND FLAGGINGS SHOWN ON THIS PLAN DELINEATED BY NATURAL RESOURCE SERVICES, INC. IN DECEMBER 2010.
 - BASE OF ELEVATIONS NAVD 88 AS ESTABLISHED BY GPS OBSERVATIONS.
 - THE INTENTION OF THIS PLAN IS TO MINIMIZE AND CONTROL THE EROSION AND RUNOFF DURING CONSTRUCTION OF THE RESIDENCE AND DRIVEWAY. IF SITE CONDITIONS WARRANT, THE NEWPORT BUILDING OFFICIAL MAY REQUIRE OTHER MEASURES.
 - EXISTING DRAINAGE PATTERNS HAVE BEEN MINIMALLY ALTERED TO THE EXTENT POSSIBLE.
 - CONTRACTOR IS TO VERIFY ALL EXISTING UTILITY LOCATIONS AND SITE ELEVATIONS PRIOR TO COMMENCING ANY FIELD WORK.
 - IF WORK IS COMPLETED IN ACCORDANCE WITH THIS PLAN, THERE SHOULD BE NO ADVERSE IMPACTS TO NEIGHBORING PROPERTIES.
 - THIS PLAN DOES NOT GUARANTEE THAT ALL UNDERGROUND UTILITIES PRESENT ARE SHOWN ON THIS PLAN, NOR THAT THOSE UTILITIES SHOWN ARE ACCURATELY REPRESENTED.
 - SOIL CHARACTERISTICS OF THE AREA OF WORK IS CATEGORY 'Cd', CANTON-CHARLTON-ROCK OUTCROP COMPLEX, AS SHOWN ON THE USDS NCRS SOIL SURVEY.

- EARTHWORK NOTES:**
- 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.
 - NO DRAINAGE AREA SHALL BE USED FOR STOCKPILES OR STORAGE OF MATERIALS OR EQUIPMENT.
 - 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.
 - AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOP SOIL TO REMOVE VEGETATION, ROOTS, AND ANY OTHER OBJECTIONABLE MATERIAL.
 - ALL FILL SHALL BE COMPACTED TO 95% MAX. DENSITY TO REDUCE EROSION, SLIPPAGE, SETTLEMENT SUBSIDENCE, OR OTHER RELATED PROBLEMS.
 - FILL INTENDED TO SUPPORT BUILDING STRUCTURES AND CONDUITS, ETC., SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL CODES AND SPECIFICATIONS.
 - ALL FILL SHALL BE PLACED IN LAYERS NOT TO EXCEED 12" IN THICKNESS FILLS.
 - 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.
 - FROZEN, SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIAL SHALL NOT BE INCORPORATED INTO FILLS.
 - FILL SHALL NOT BE PLACED ON A FROZEN FOUNDATION SUBGRADE.
 - SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER.
 - ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS OF FINISH GRADING IN ACCORDANCE WITH THE VEGETATIVE PRACTICE NOTES.
 - EXCESS QUANTITIES OF SOIL WILL BE REMOVED FROM SITE BY CONTRACTOR AND DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.

- VEGETATIVE PRACTICE:**
- PERMANENT MEASURES:**
- EROSION CONTROL BLANKET SHALL BE INSTALLED ON ANY SLOPES STEEPER THAN 3:1 (SEE PLAN).
 - 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.
 - THE FOLLOWING SEEDING MIXTURE SHALL BE APPLIED AT THE INDICATED RATE UNLESS OTHERWISE APPROVED BY THE BUILDING OFFICIAL.

RED FESCUE:	40 LBS/ACRE
KENTUCKY BLUEGRASS:	40 LBS/ACRE
PERENNIAL RYEGRASS:	20 LBS/ACRE
 - HAY MULCH SHALL BE APPLIED AT THE RATE OF 1.5 TONS/ACRE
- TEMPORARY MEASURES (FOR TEMPORARY PROTECTION OF DISTURBED AREAS)**
- LIMESTONE AND FERTILIZER SHALL BE APPLIED AT THE FOLLOWING RATE:

LIMESTONE:	2 TONS/ACRE
FERTILIZER:	(10-10-10); 600 LBS/ACRE
 - SEED SHALL BE APPLIED AT THE FOLLOWING RATE:

WINTER RYE:	100 LBS/ACRE
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 - HAY MULCH SHALL BE APPLIED AT THE RATE OF 1.5 TONS/ACRE.

- CONSTRUCTION SEQUENCE:**
- DO NOT BEGIN CONSTRUCTION UNTIL ALL LOCAL, STATE, AND FEDERAL PERMITS HAVE BEEN APPLIED FOR AND RECEIVED. CONTRACTOR/OWNER SHALL NOTIFY THE BUILDING OFFICIAL IN ADVANCE OF HIS INTENT TO BEGIN CONSTRUCTION.
 - CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE LOCATED AS SHOWN ON PLANS. CONSTRUCTION TRAFFIC SHALL ENTER AND EXIT THE SITE VIA THIS ENTRANCE.
 - 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.
 - FLAG AREA OF BIORETENTION AREA SUCH THAT CONSTRUCTION DISTURBANCE IS MINIMAL. REMOVE TREES AND VEGETATION ONLY WHERE NECESSARY. ALL STUMPS TO BE GROUND OR DISPOSED OF OFF SITE.
 - EXCAVATE SITE IN ACCORDANCE WITH THE PLANS AND DETAILS. ONLY THOSE AREAS UNDER CONSTRUCTION WILL BE DISTURBED BY EARTHWORK. THE REMAINDER OF THE LOT WILL NOT BE STRIPPED OR DISTURBED UNTIL CONTRACTOR IS DONE WITH THE RESIDENCE / CARRIAGE HOUSE CONSTRUCTION AND READY FOR THE FINAL LAWN / LANDSCAPING INSTALLATION.
 - TEMPORARY SOIL STOCKPILES SHALL BE PROTECTED WITH ADDITIONAL EROSION CONTROL MEASURES AS NECESSARY.
 - EXCAVATE FOR AND CONSTRUCT UTILITY SERVICES.
 - ESTABLISH A VEGETATIVE GROWTH THAT MEETS THE APPROVAL OF THE BUILDING OFFICIAL. COMPLETE AREAS OF LANDSCAPING.
 - UPON COMPLETION OF CONSTRUCTION AND PRIOR TO REMOVAL OF EROSION & SEDIMENT CONTROLS, CONTRACTOR SHALL CONTACT BUILDING OFFICIAL FOR A FINAL INSPECTION.
 - 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.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: SEP 28 2023 FILE #: 21-0065
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

ZONING DATA TABLE
R160 RESIDENTIAL DISTRICT
SINGLE-FAMILY DWELLING

	REQUIRED	PROPOSED
MINIMUM LOT AREA	160,000 SQ. FT.	174,397 SQ. FT.
MINIMUM LOT WIDTH @ FRONTAGE	400 FT.	492.5 FT.
MAXIMUM % OF LOT TO BE OCCUPIED	6%	3.2%
MAX. HEIGHT OF PRINCIPAL BUILDING	35 FT.	MAX 35 FT.
MINIMUM YARD DIMENSIONS		
FRONT	100 FT.	166 FT.
SIDE	50 FT.	50 / 310 FT.
REAR	50 FT.	138

1	RIDEM PERMIT MODIFICATION	19JUL23
0	RIDEM SUBMISSION	16JAN23
No.	Revision	Date App.
Designed By:	Drawn by: JJR	Checked by: GES
Scale:	1"=40'	Date: REV. 19JUL23

PROPOSED RESIDENCE
A.P. 41 LOT 411
BEACON HILL ROAD / BRENTON ROAD
NEWPORT, RHODE ISLAND

Client/Owner:
BEACON HILL ROAD LLC
174 BELLEVUE AVE UNIT 204
NEWPORT RI, 02840

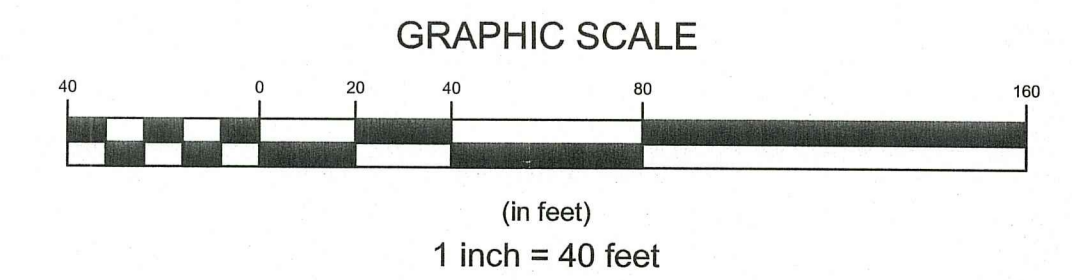
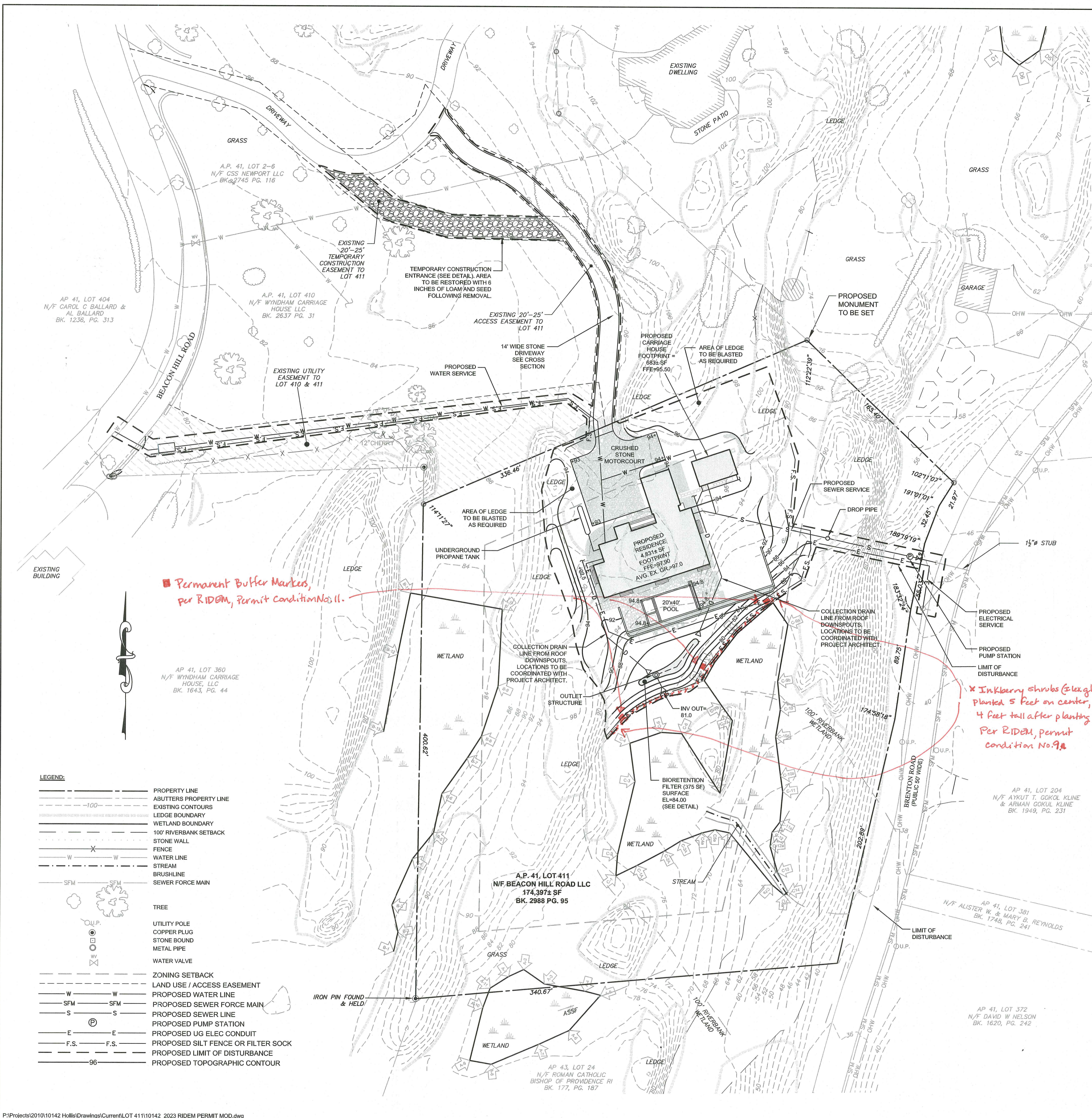
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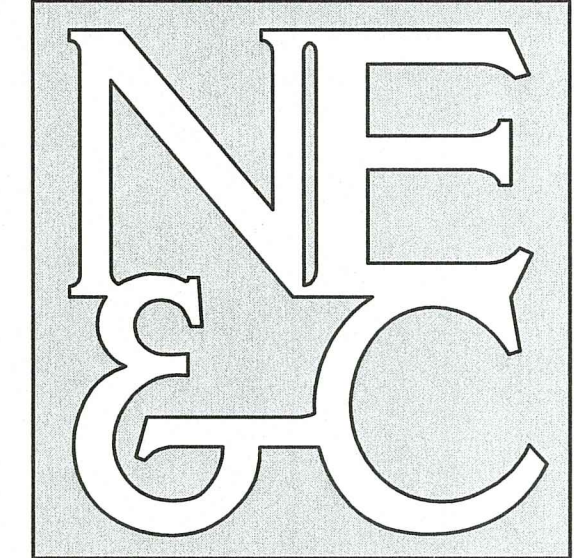
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SITE PLAN

Drawing Number:
C-1

Sheet 1 of 2
Project Number:
10142.6
Survey Index:

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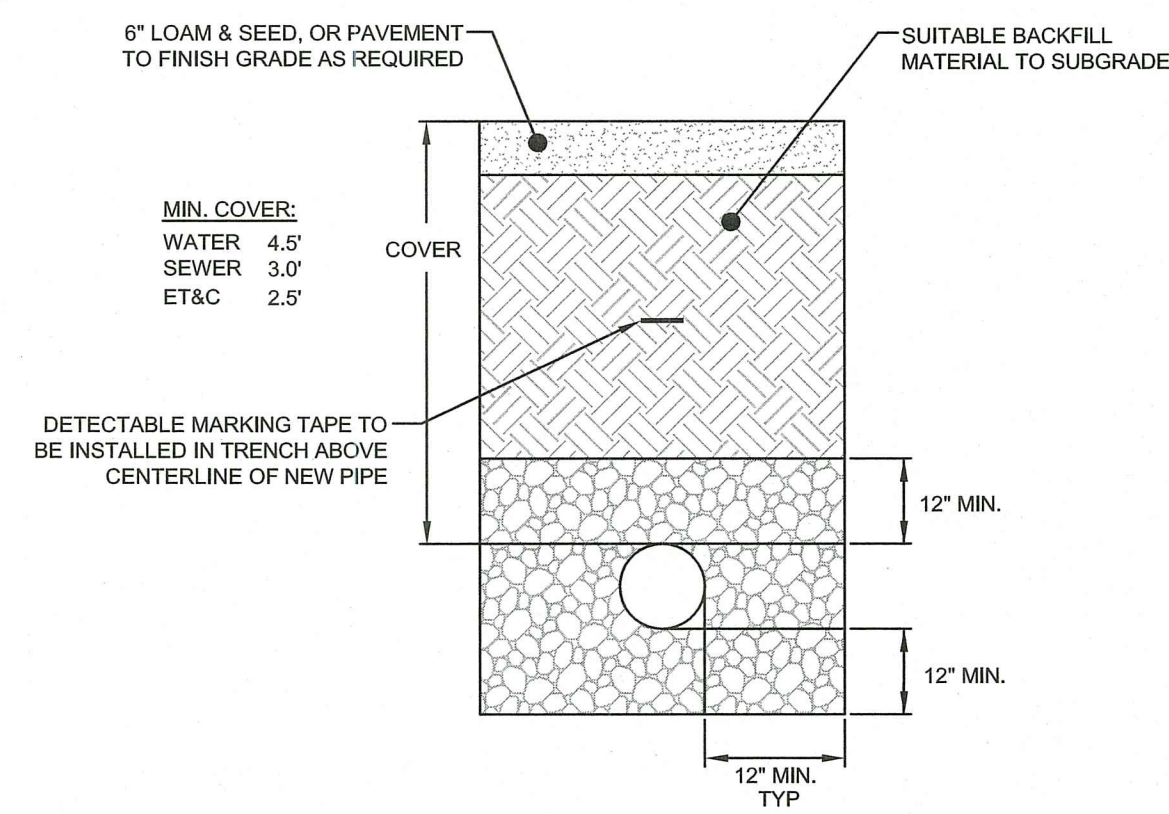




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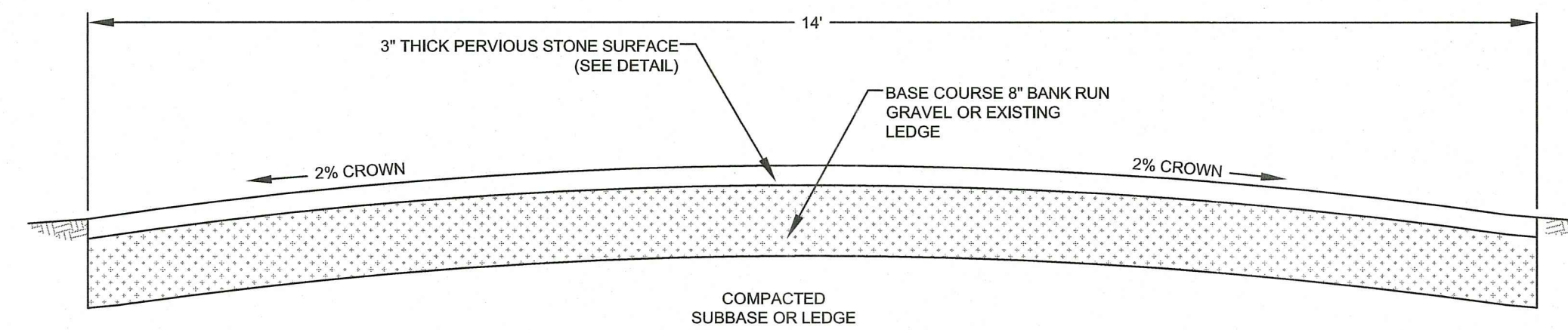
55 JOHN CLARKE ROAD MIDDLETOWN RHODE ISLAND 02842
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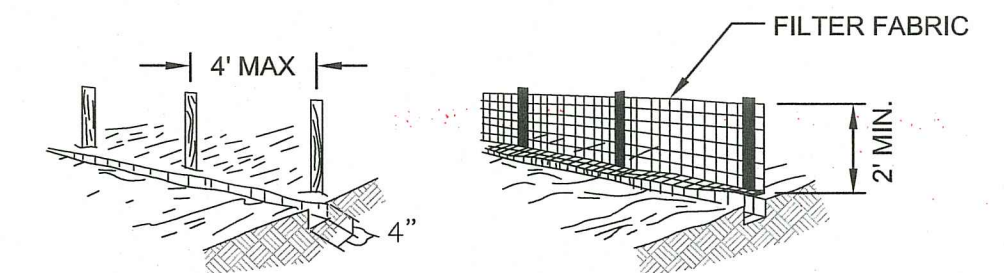


UTILITY TRENCH DETAIL
SCALE: NOT TO SCALE

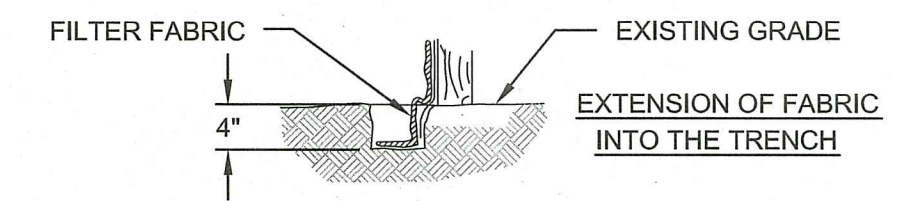
- NOTES:**
- UNSUITABLE MATERIAL SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 12-INCHES BELOW THE DESIGN INVERT ELEVATION.
 - TRENCH PROTECTION SHALL BE REQUIRED IN ACCORDANCE WITH OSHA REGULATIONS, AND AS OTHERWISE REQUIRED TO PROTECT UTILITIES, ROADWAYS, AND ADJACENT STRUCTURES.
 - SEWER PIPES SHALL BE LAID BEGINNING AT THE DOWNSTREAM END OF THE PIPE LINE.
 - ALL PVC SEWER PIPES SHALL BE IPEX RING-TITE SDR 35, OR SIMILAR APPROVED.
 - ALL SEWER PIPE AND GASKETS SHALL CONFORM TO ASTM 3034 AND ASTM F679.
 - ALL NEW SEWER MANHOLES SHALL HAVE KOR-N-SEAL CONNECTIONS, TYPICAL OR EQUAL.
 - 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 (AASHTO T190). SUITABLE BACKFILL SHALL BE FREE OF LOAM, CLAY, ORGANIC MATTER AND PARTICLES LARGER THAN 2 INCHES IN DIAMETER.
 - SEWER PIPE TRENCHES SHALL BE BEDDED WITH CRUSHED STONE OR SCREENED GRAVEL. THESE MATERIALS MUST CONFORM TO RIDOT STANDARD M.01.09 TYPE II MATERIAL.
 - WATER PIPE TRENCHES MUST BE BEDDED WITH SAND CONTAINING NO PARTICLES LARGER THAN 3/8". THIS MATERIAL MUST CONFORM TO AASHTO M6 REQUIREMENTS.
 - UTILITY INSTALLATIONS SHALL CONFORM TO ALL REQUIREMENTS OF THE NEWPORT WATER AND DEPARTMENT OF UTILITIES RULES AND REGULATIONS.
 - TRENCHING FOR SEWER SERVICE SHALL BE ACCOMPLISHED WITH MINIMAL LEDGE BLASTING.



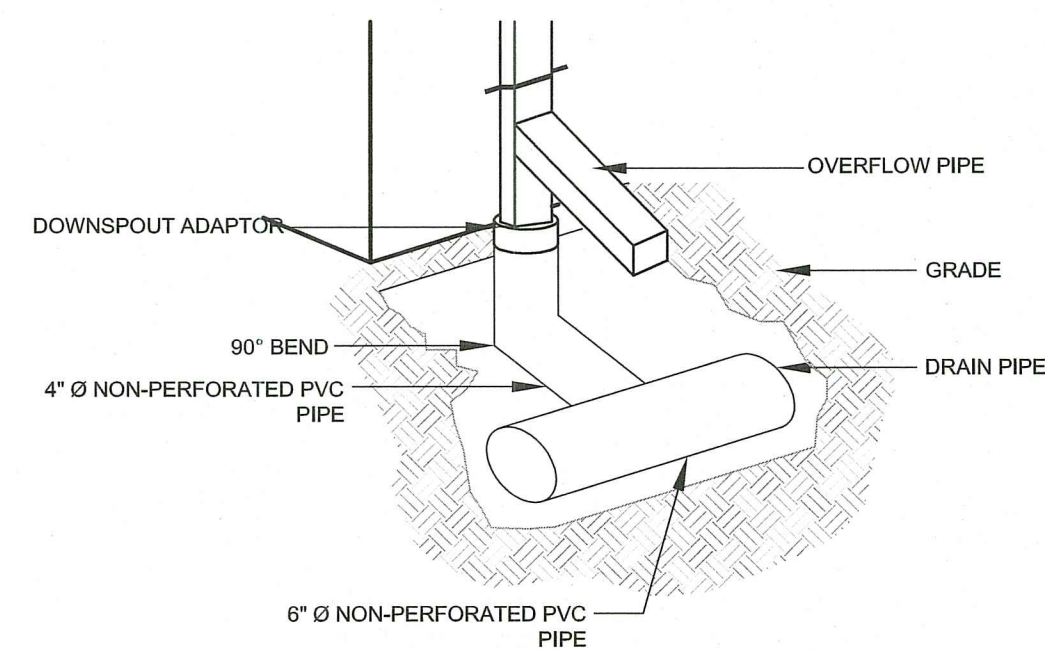
MAIN DRIVEWAY SECTION
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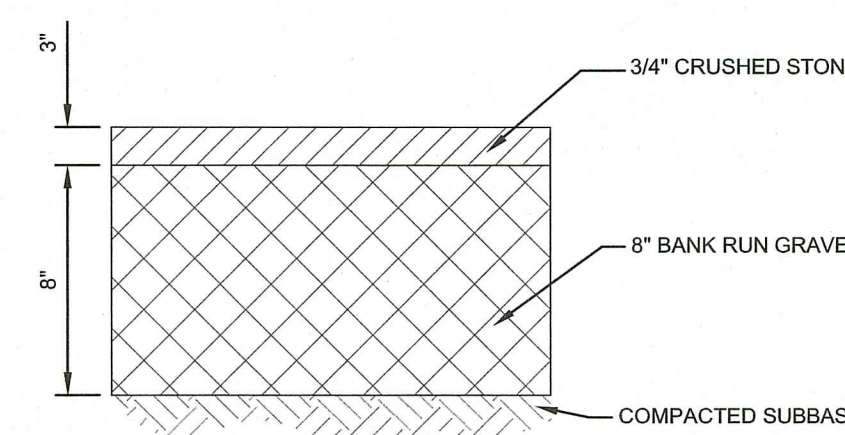
- SET POSTS AND EXCAVATE A 4" X 4" TRENCH UPSLOPE ALONG THE LINE OF POSTS.
- STAPLE FILTER FABRIC TO THE POSTS AND EXTEND INTO TRENCH.
- BACK FILL AND COMPACT THE EXCAVATED SOIL INTO THE TRENCH.



SILT FENCE
SCALE: NOT TO SCALE

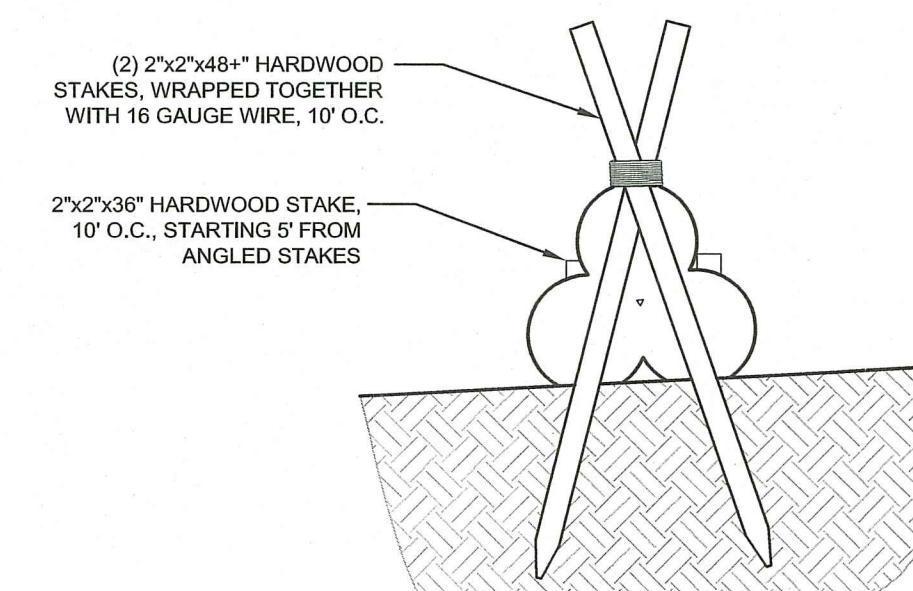


ROOF DOWNSPOUT DETAIL
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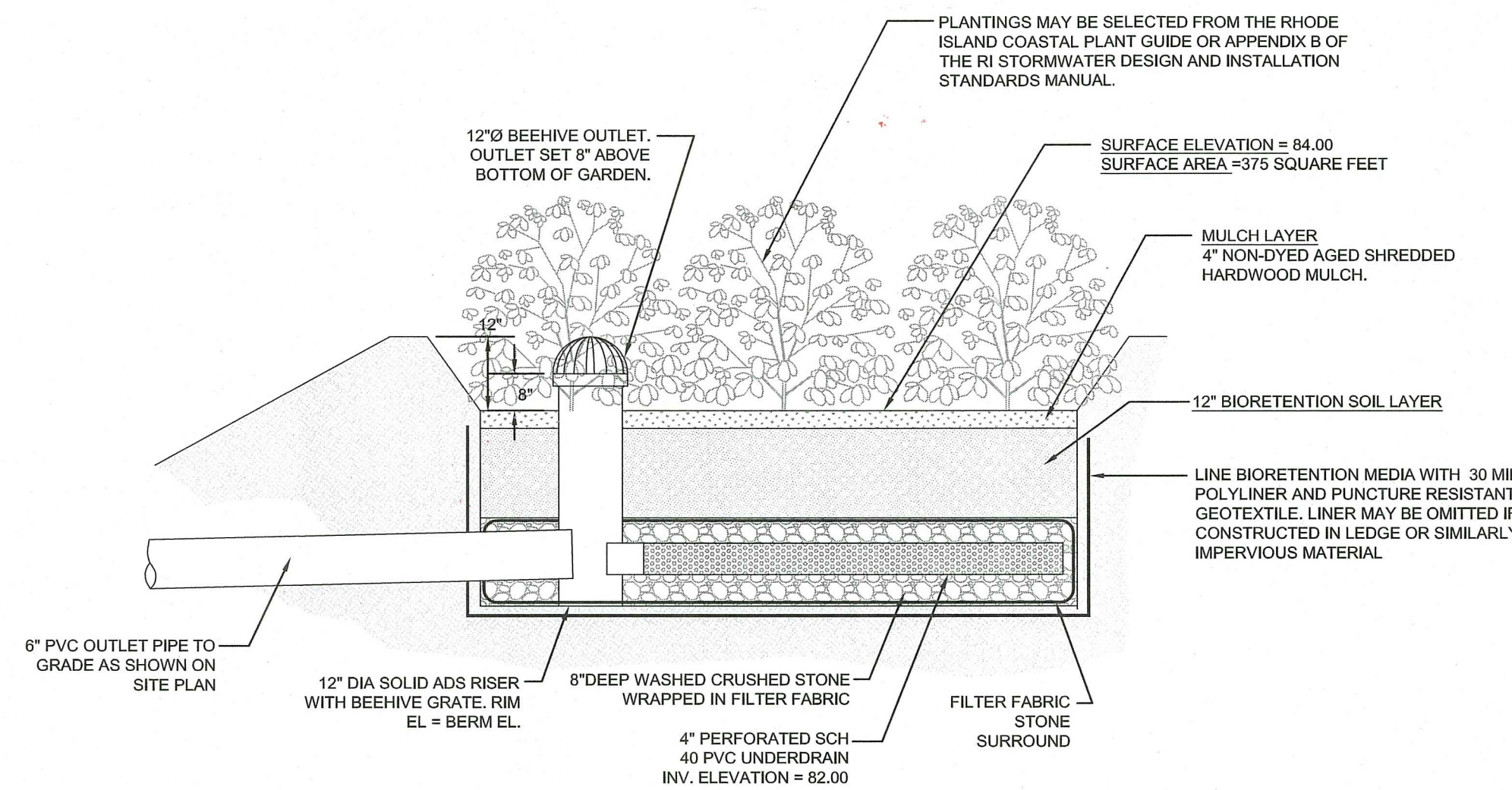
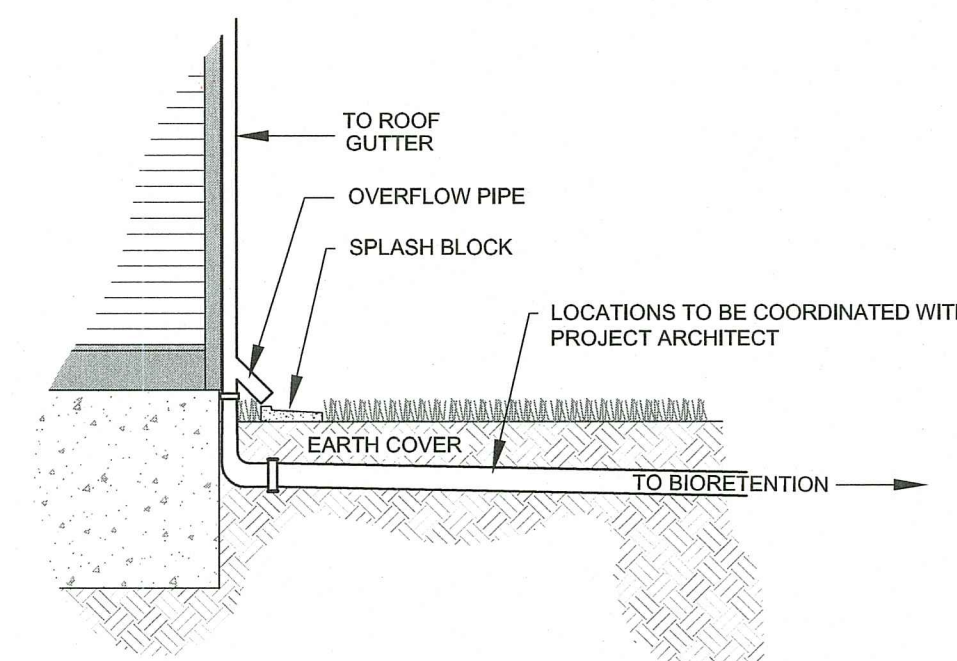


CRUSHED STONE MOTOR COURT SECTION
SCALE: NOT TO SCALE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: SEP 28 2023 FILE # 21-0045
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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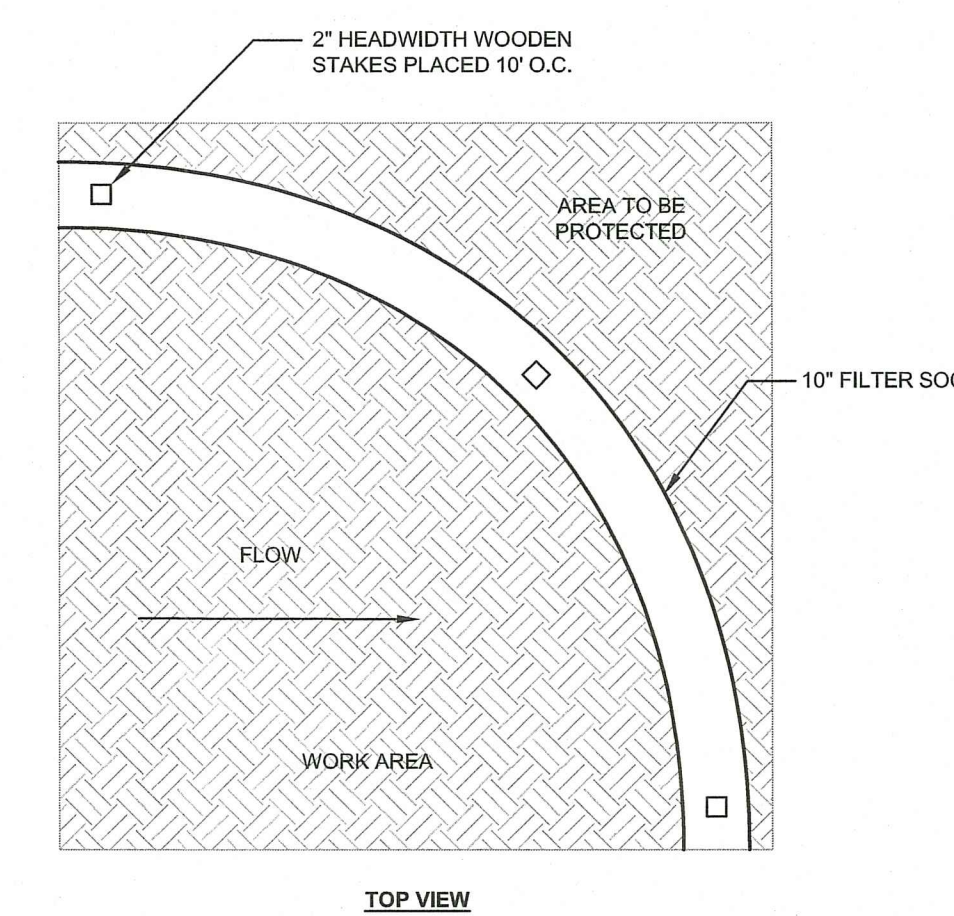
PYRAMID SECTION VIEW (FOR HIGH FLOW CONDITIONS)



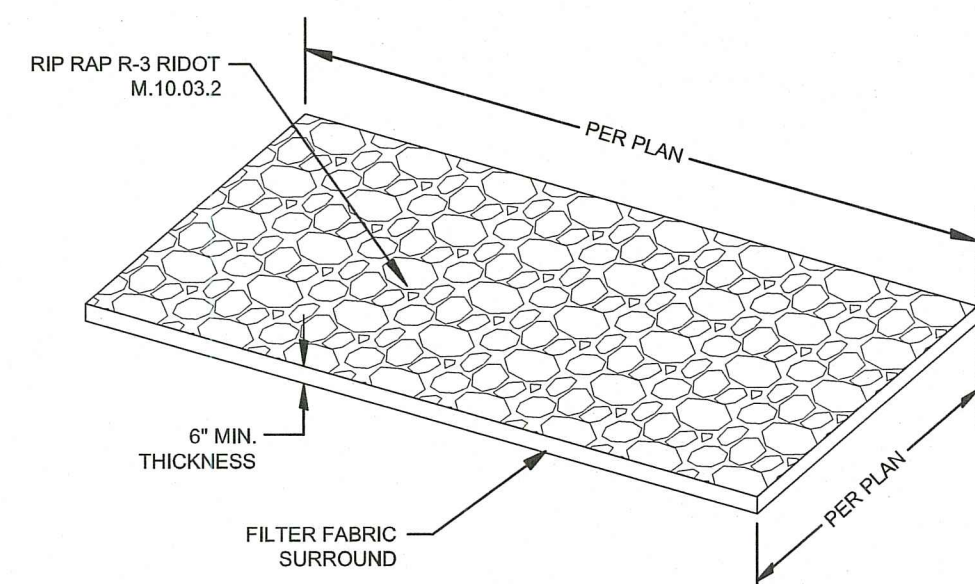
BIORETENTION FILTER NOTES:

- BIORETENTION FILTER PLANTINGS MAY BE SELECTED FROM THE RHODE ISLAND COASTAL PLANT GUIDE OR APPENDIX B OF THE RI STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL AND SHOULD BE SELECTED BY A REGISTERED RI LANDSCAPE ARCHITECT.
- PLANTINGS MUST BE DENSE AND COVER THE ENTIRETY OF THE FILTER SURFACE.
- BIORETENTION SOIL SHALL CONSIST OF USDA LOAMY SAND AND MEET THE FOLLOWING GRADATIONS: SAND 85-88% SILT 8-12%, CLAY 0-2%, AND ORGANIC MATTER (LEAF COMPOST) 3-5%.
- UNDERDRAIN STONE SHALL CONFORM TO AASHTO M-43, 0.25" TO 0.75". MATERIAL MUST BE WASHED CLEAN CRUSHED STONE. STONE PIPE TO BE WRAPPED IN GEOTEXTILE FABRIC CONFORMING TO FLOWRATE IN NOTE 5.
- POLYLINER SHALL BE 30 MIL IN THICKNESS (ASTM D 751), SHALL HAVE A TENSILE STRENGTH OF 1,100 LBS AND AN ELONGATION OF 200% (ASTM D 412) A TEAR RESISTANCE OF 190 LBS/IN (ASTM D 624) AND WATER ADSORPTION OF +8 TO -2% MASS (ASTM D 471). LINER SHALL BE ULTRAVIOLET RESISTANT. GEOTEXTILE FABRIC SHALL HAVE A PUNCTURE STRENGTH OF 125 LBS, A BURST STRENGTH OF 400 PSI (ASTM D 1117) AND A TENSILE STRENGTH OF 300 LBS (ASTM D 1682). FABRIC SHALL BE MIN 0.08" THICK WITH AN EQUIVALENT OPENING SIZE OF #80 SIEVE AND A MINIMUM FLOW RATE OF 125 GPM PER SQUARE FOOT.
- 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 STONE OVER PIPE.

BIORETENTION FILTER CROSS SECTION :
OVERFLOW OUTLET AND UNDERDRAIN RISER COMBINED
SCALE: NOT TO SCALE



10" FILTER SOCK DETAIL
SCALE: NOT TO SCALE



CONSTRUCTION ENTRANCE DETAIL
SCALE: NOT TO SCALE

1	RIDEM PERMIT MODIFICATION	19JUL23	
0	RIDEM SUBMISSION	16JAN23	
No.	Revision	Date	App.
Designed by:	JJR	Drawn by:	JJR
Scale:	AS SHOWN	Date:	REV. 19JUL23
Checked by:	GES		

Project Title:
PROPOSED RESIDENCE
A.P. 41 LOT 411
BEACON HILL ROAD / BRENTON ROAD
NEWPORT, RHODE ISLAND

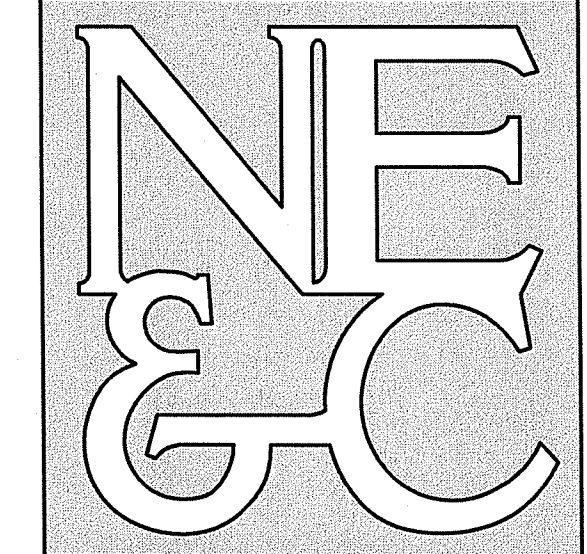
Client/Owner:
BEACON HILL ROAD LLC
174 BELLEVUE AVE UNIT 204
NEWPORT, RI 02840

Issued for:
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Drawing Title:
DETAIL SHEET

Drawing Number:	C-2
Sheet	2 of 2
Project Number:	10142.6
Survey Index:	-

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Nancy L. Freeman

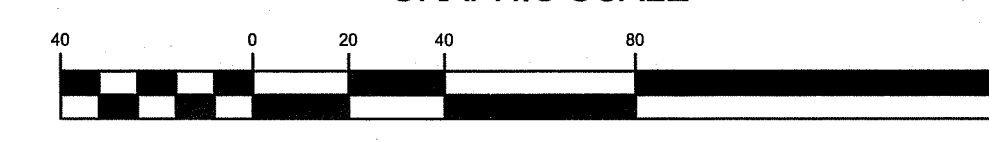
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- WETLAND FLAGS SHOWN ON THIS PLAN DELINEATED BY NATURAL RESOURCE SERVICES, INC. IN DECEMBER 2010.
- BASE OF ELEVATIONS NAVD 88 AS ESTABLISHED BY GPS OBSERVATIONS.
- PLANTINGS SHALL CONSIST OF A SINGLE ROW OF ARBORVITAE (*Thuja occidentalis*) SPACED 10 FEET ON CENTER, 4-5 FEET TALL AFTER PLANTING AS SPECIFIED BY PROJECT WETLANDS BIOLOGIST (MASON & ASSOCIATES, INC).

LEGEND:

- PROPERTY LINE
- - - ABUTTERS PROPERTY LINE
- - - EXISTING CONTOURS
- - - LEDGE BOUNDARY
- - - WETLAND BOUNDARY
- - - 100' RIVERBANK SETBACK
- - - STONE WALL
- - - FENCE
- - - WATER LINE
- - - STREAM
- - - BRUSHLINE
- - - SEWER FORCE MAIN
- TREE
- UTILITY POLE
- COPPER PLUG
- STONE BOUND
- METAL PIPE
- WATER VALVE
- - - ZONING SETBACK
- - - LAND USE / ACCESS EASEMENT
- - - PROPOSED WATER LINE
- - - SFM PROPOSED SEWER FORCE MAIN
- - - S PROPOSED SEWER LINE
- PROPOSED PUMP STATION
- - - PROPOSED UG ELEC CONDUIT
- - - F.S. PROPOSED SILT FENCE OR FILTER SOCK
- - - PROPOSED LIMIT OF DISTURBANCE
- - - 96 PROPOSED TOPOGRAPHIC CONTOUR
- PROPOSED ARBORVITAE

GRAPHIC SCALE



(in feet)
 1 inch = 40 feet

RIDEM REVISIONS		19APR21	
No.	Revision	Date	App.
1			

Designed By: _____ Drawn by: JJR Checked by: GES
 Scale: 1"=40' Date: 08MAR21

PROPOSED RESIDENCE
 A.P. 41 LOT 411
 BEACON HILL ROAD / BRENTON ROAD
 NEWPORT, RHODE ISLAND

Client/Owner:
 MR. SAL CARRABBA
 58 ORCHARD ROAD WEST
 HARTFORD, CT 06117

Issued for:
 PERMITTING

Drawing Title:
 APR 30 2021
 SITE PLAN

Drawing Number:
 C-1

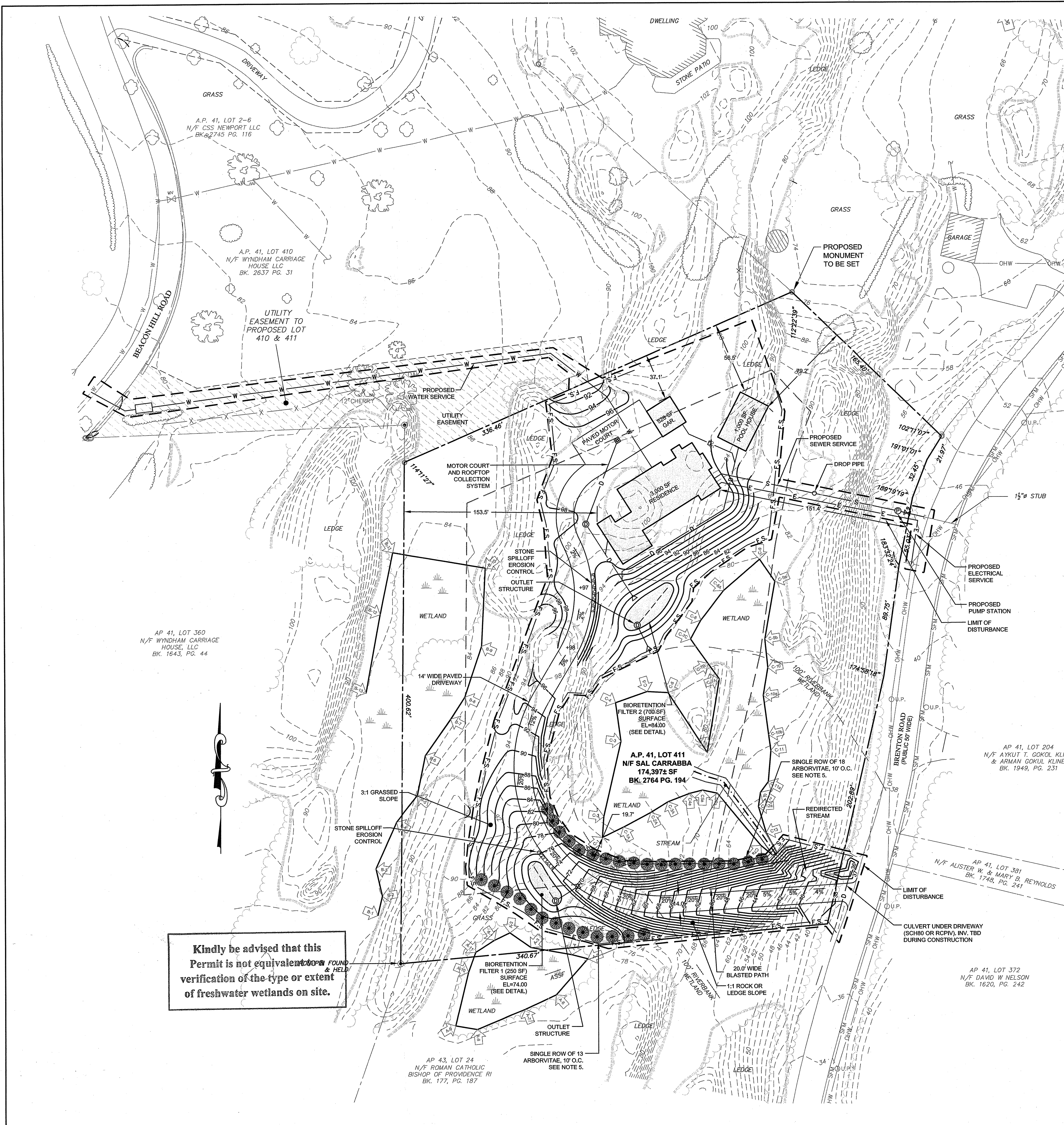
Sheet 1 of 2

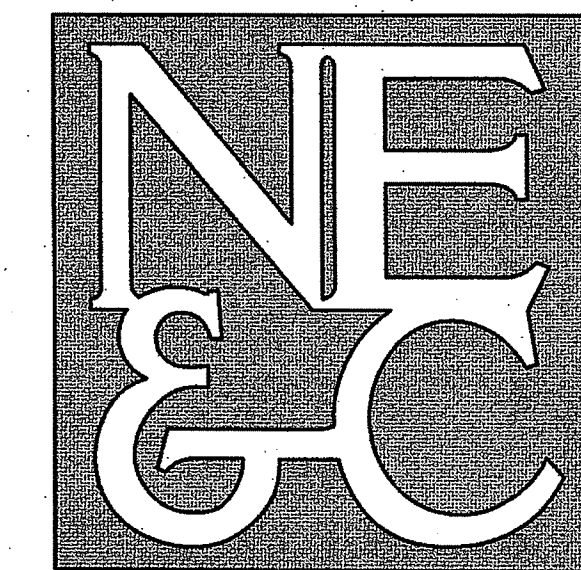
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Kindly be advised that this Permit is not equivalent to a FOUND & HELD verification of the type or extent of freshwater wetlands on site.

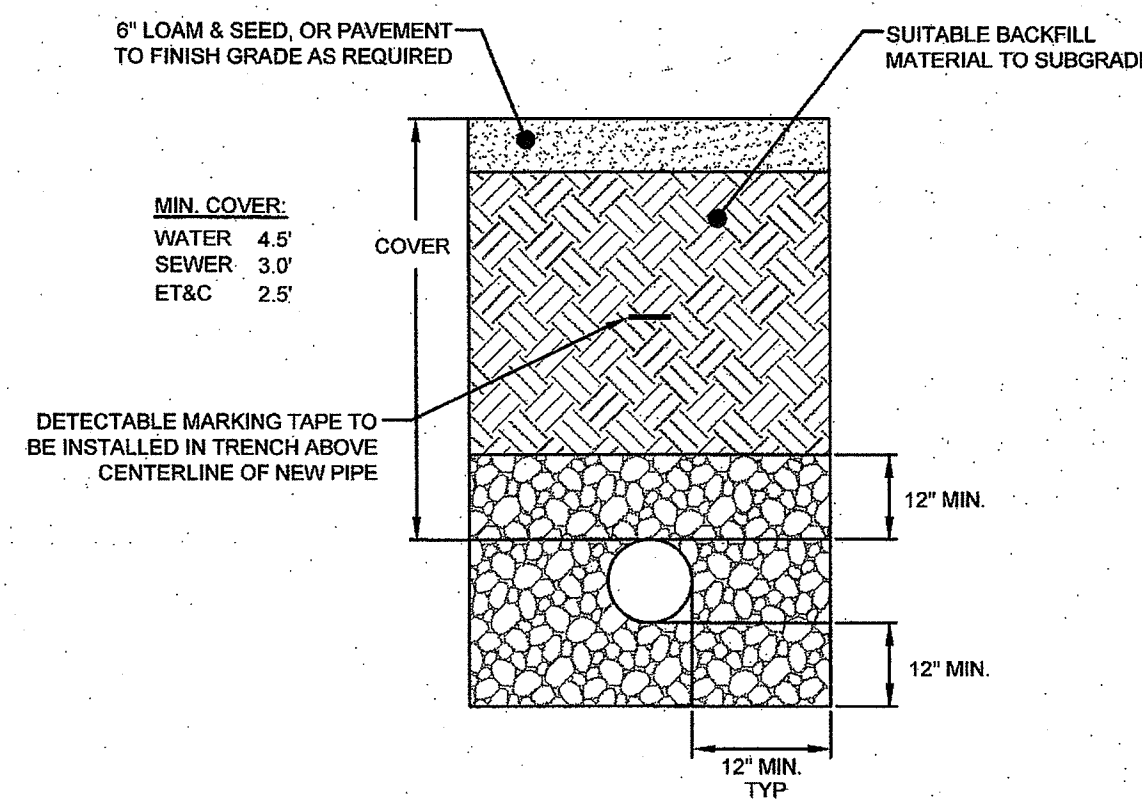




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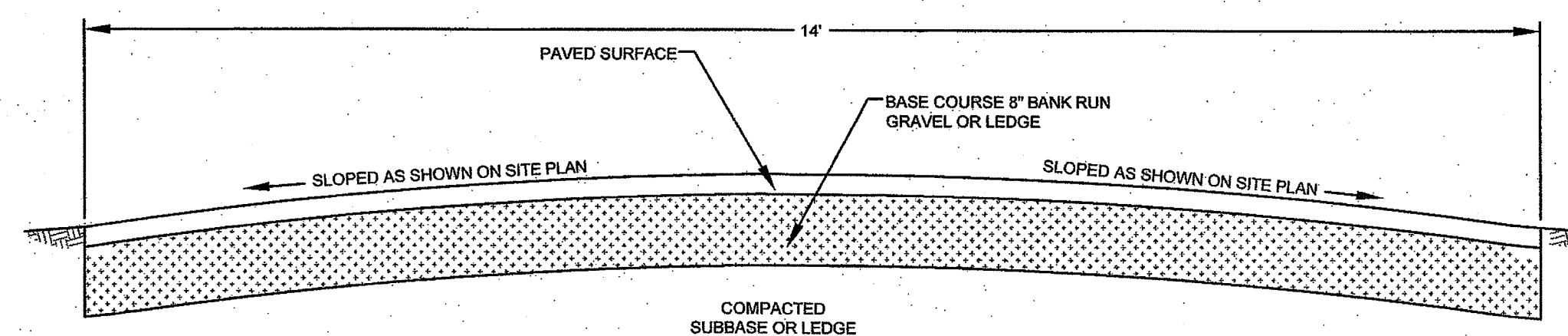
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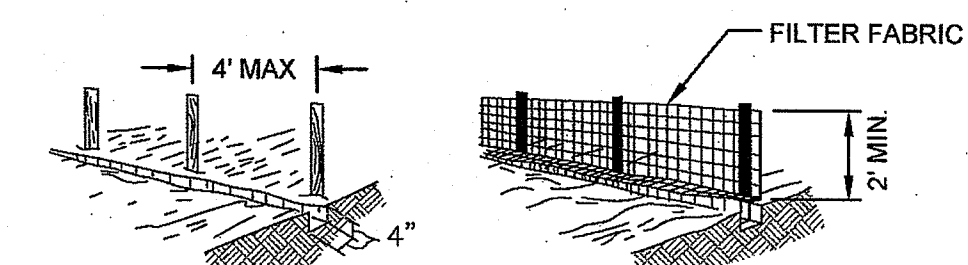


UTILITY TRENCH DETAIL
 SCALE: NOT TO SCALE

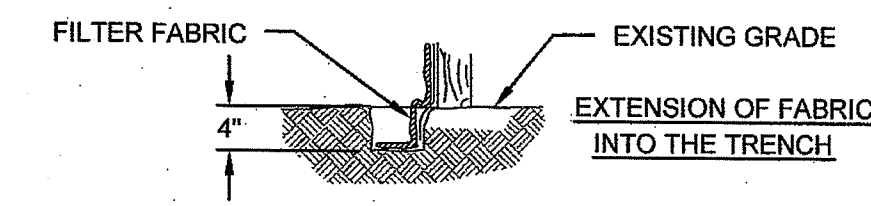
- NOTES:**
- UNSATURABLE MATERIAL SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 12-INCHES BELOW THE DESIGN INVERT ELEVATION.
 - TRENCH PROTECTION SHALL BE REQUIRED IN ACCORDANCE WITH OSHA REGULATIONS, AND AS OTHERWISE REQUIRED TO PROTECT UTILITIES, ROADWAYS, AND ADJACENT STRUCTURES.
 - SEWER PIPES SHALL BE LAID BEGINNING AT THE DOWNSTREAM END OF THE PIPE LINE.
 - ALL PVC SEWER PIPES SHALL BE IPEX RING-TITE SDR 35, OR SIMILAR APPROVED.
 - ALL SEWER PIPE AND GASKETS SHALL CONFORM TO ASTM 3034 AND ASTM F679.
 - ALL NEW SEWER MANHOLES SHALL HAVE KOR-N-SEAL CONNECTIONS, TYPICAL OR EQUAL.
 - 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 8" IN HEIGHT. THESE LAYERS SHALL BE COMPACTED TO 96% MAXIMUM DENSITY (AASHTO T190). SUITABLE BACKFILL SHALL BE FREE OF LOAM, CLAY, ORGANIC MATTER AND PARTICLES LARGER THAN 2 INCHES IN DIAMETER.
 - SEWER PIPE TRENCHES SHALL BE BEDDED WITH CRUSHED STONE OR SCREENED GRAVEL. THESE MATERIALS MUST CONFORM TO RIDOT STANDARD M.01.09 TYPE II MATERIAL.
 - WATER PIPE TRENCHES MUST BE BEDDED WITH SAND CONTAINING NO PARTICLES LARGER THAN 3/8". THIS MATERIAL MUST CONFORM TO AASHTO M5 REQUIREMENTS.
 - UTILITY INSTALLATIONS SHALL CONFORM TO ALL REQUIREMENTS OF THE NEWPORT WATER AND DEPARTMENT OF UTILITIES RULES AND REGULATIONS.
 - TRENCHING FOR SEWER SERVICE SHALL BE ACCOMPLISHED WITH MINIMAL LEDGE BLASTING.



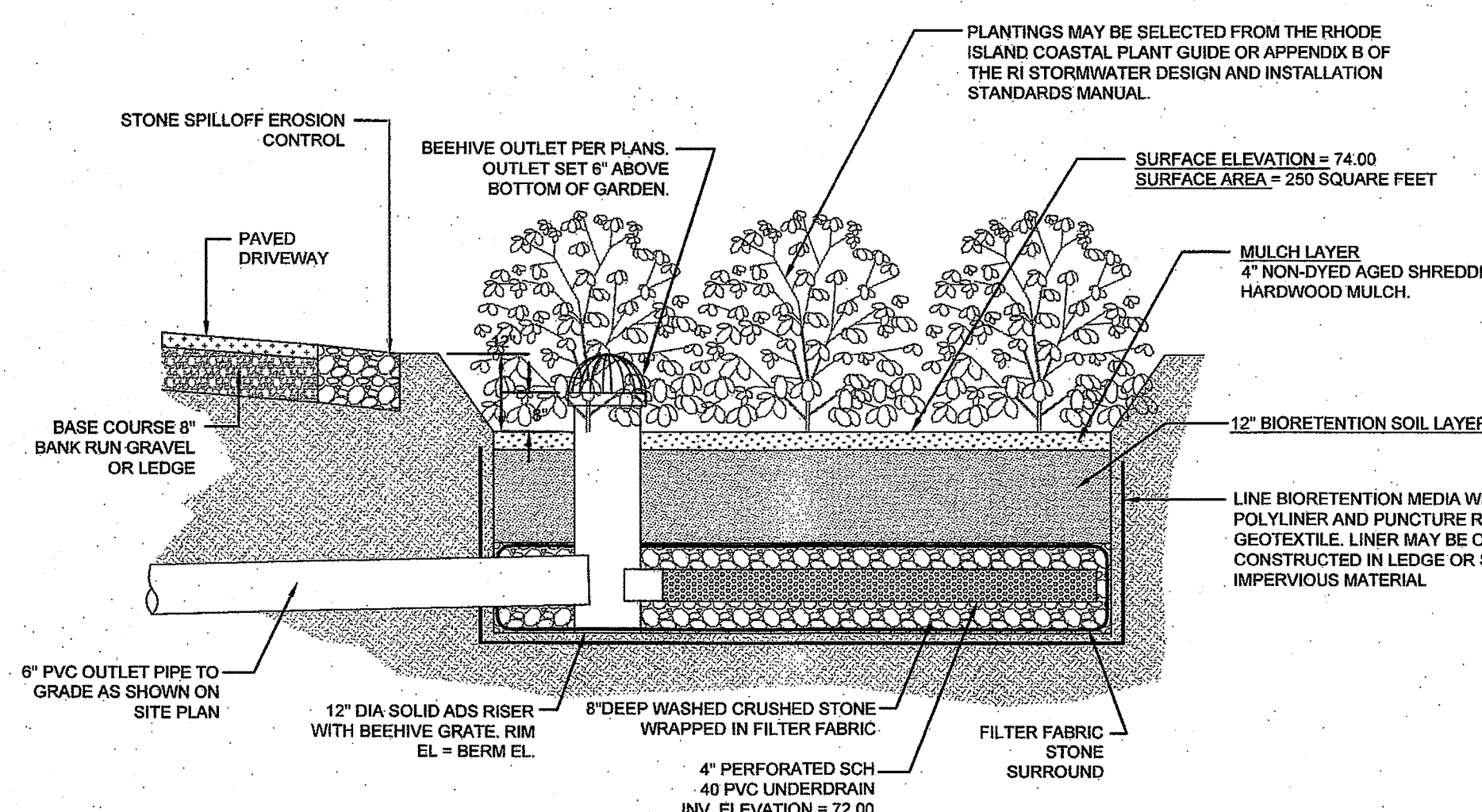
MAIN DRIVEWAY SECTION
 SCALE: NOT TO SCALE



- SET POSTS AND EXCAVATE A 4" X 4" TRENCH UPSLOPE ALONG THE LINE OF POSTS.
- STAPLE FILTER FABRIC TO THE POSTS AND EXTEND INTO TRENCH.
- BACK FILL AND COMPACT THE EXCAVATED SOIL INTO THE TRENCH.



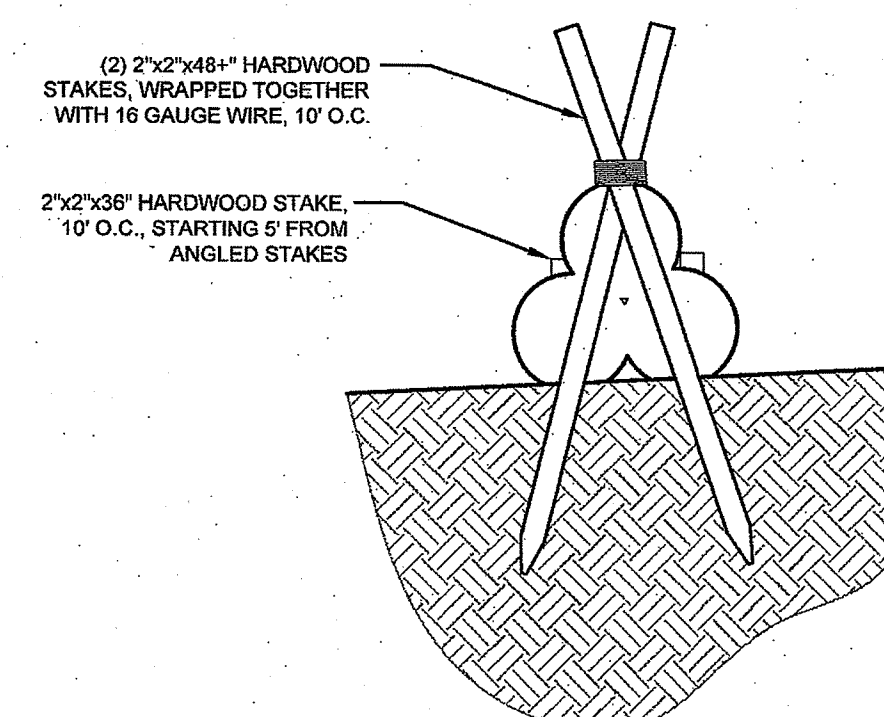
SILT FENCE
 SCALE: NOT TO SCALE



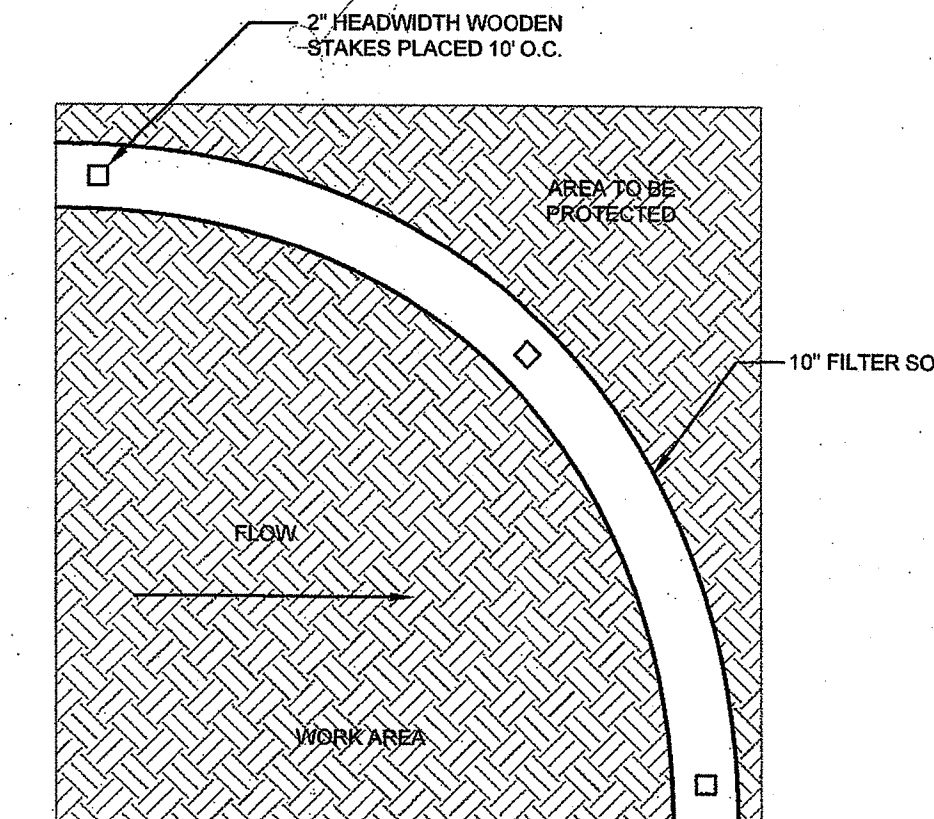
**BIORETENTION FILTER 1 CROSS SECTION :
 OVERFLOW OUTLET AND UNDERDRAIN RISER
 COMBINED**
 SCALE: NOT TO SCALE

BIORETENTION FILTER NOTES:

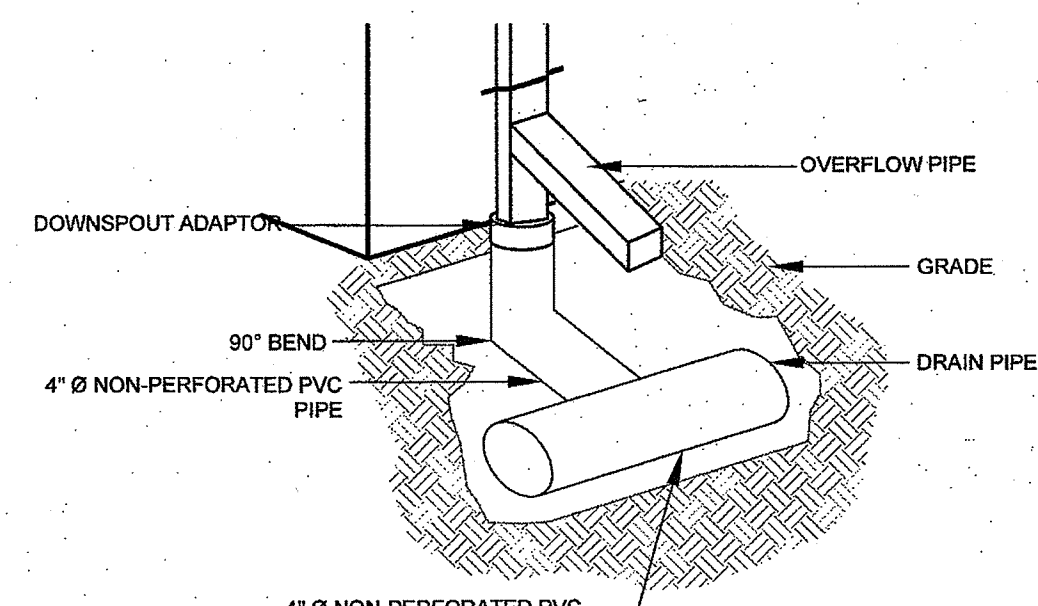
- BIORETENTION FILTER PLANTINGS MAY BE SELECTED FROM THE RHODE ISLAND COASTAL PLANT GUIDE OR APPENDIX B OF THE RI STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL AND SHOULD BE SELECTED BY A REGISTERED RI LANDSCAPE ARCHITECT.
- PLANTINGS MUST BE DENSE AND COVER THE ENTIRETY OF THE FILTER SURFACE.
- BIORETENTION SOIL SHALL CONSIST OF USDA LOAMY SAND AND MEET THE FOLLOWING GRADATIONS: SAND 85-88% SILT 8-12%, CLAY 0-2%, AND ORGANIC MATTER (LEAF COMPOST) 3-5%.
- UNDERDRAIN STONE SHALL CONFORM TO AASHTO M-43, 0.25" TO 0.75". MATERIAL MUST BE WASHED CLEAN CRUSHED STONE. STONE PIPE TO BE WRAPPED IN GEOTEXTILE FABRIC CONFORMING TO FLOWRATE IN NOTE 5.
- POLYLINER SHALL BE 30 MIL IN THICKNESS (ASTM D 751), SHALL HAVE A TENSILE STRENGTH OF 1,100 LBS AND AN ELONGATION OF 200% (ASTM D 412) A TEAR RESISTANCE OF 150 LBS/IN (ASTM D 824) AND WATER ADSORPTION OF +8 TO -2% MASS (ASTM D 471). LINER SHALL BE ULTRAVIOLET RESISTANT. GEOTEXTILE FABRIC SHALL HAVE A PUNCTURE STRENGTH OF 125 LBS, A BURST STRENGTH OF 400 PSI (ASTM D 1117) AND A TENSILE STRENGTH OF 300 LBS (ASTM D 1582). FABRIC SHALL BE MIN 0.02" THICK WITH AN EQUIVALENT OPENING SIZE OF #80 SIEVE AND A MINIMUM FLOW RATE OF 125 GPM PER SQUARE FOOT.
- 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 STONE OVER PIPE.



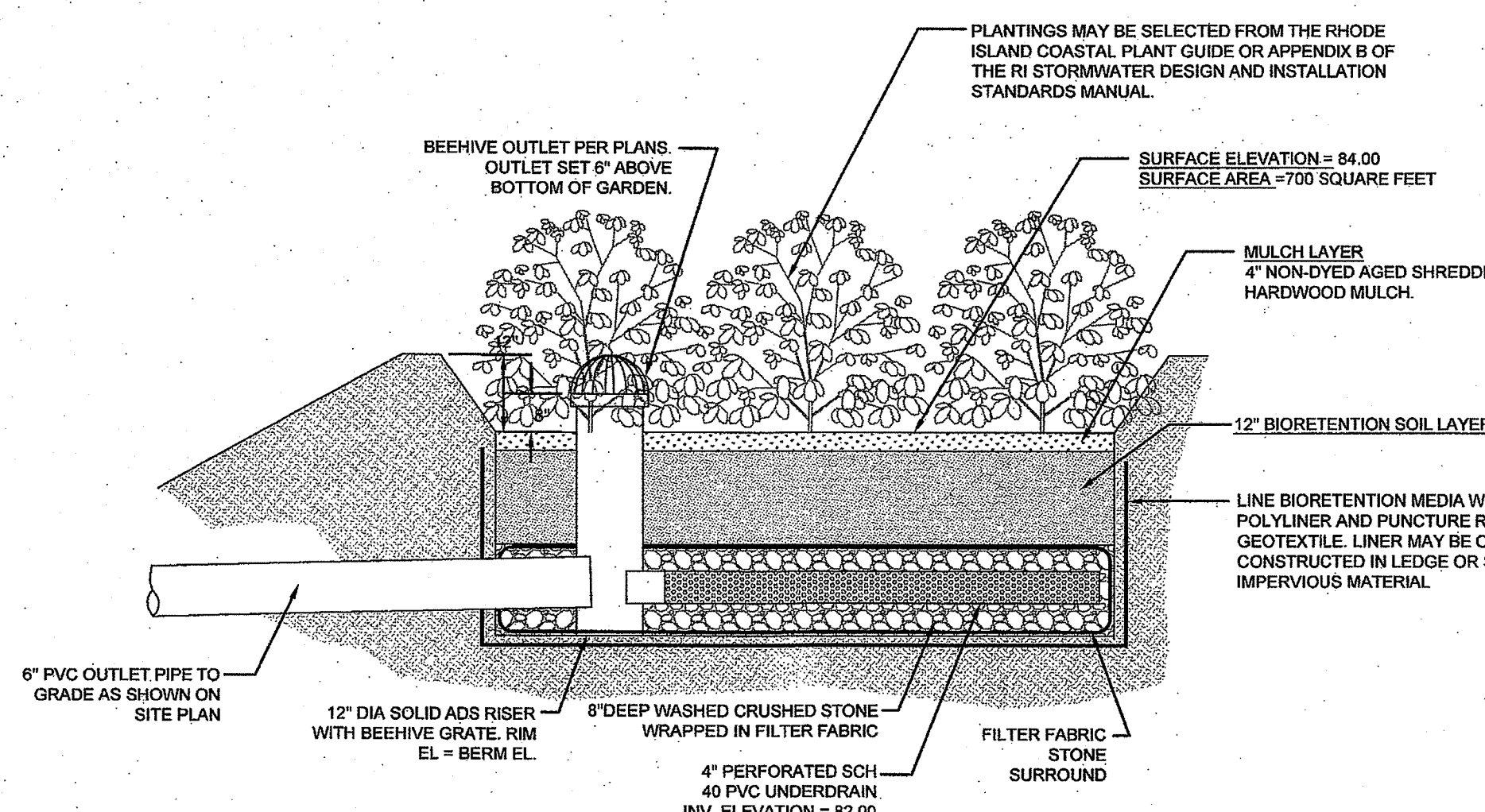
PYRAMID SECTION VIEW (FOR HIGH FLOW CONDITIONS)



**10\"/>
 SCALE: NOT TO SCALE**



ROOF DOWNSPOUT DETAIL
 SCALE: NOT TO SCALE



**BIORETENTION FILTER 2 CROSS SECTION :
 OVERFLOW OUTLET AND UNDERDRAIN RISER COMBINED**
 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 11/2/2021 FILE # 21-0066
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Douglas H. Freeman

No.	Revision	Date	App.
Designed By:	Drawn by: JJR	Checked by: GES	
Scale:	AS SHOWN	Date:	08MAR21
Project Title:			
PROPOSED RESIDENCE			
A.P. 41 LOT 411			
BEACON HILL ROAD / BRENTON ROAD NEWPORT, RHODE ISLAND			
Client/Owner:			
MR. SAL CARRABBA 58 ORCHARD ROAD WEST HARTFORD, CT 06117			
Issued for:			
PERMITTING			
Drawing Title:			
DETAIL SHEET			
Drawing Number:		C-2	
Sheet		2 of 2	
Project Number:		10142.6	
Survey Index:		-	
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