

LOCATION PLAN SCALE: 1"=2000'

- GENERAL NOTES**
- THE DATA ACCUMULATION SURVEY DEPICTED HEREON IS A PRODUCT OF AERIAL PHOTOGRAMMETRY PREPARED BY AEROTECH CORPORATION IN 2016 FROM PHOTOGRAPHY DATED APRIL 1995. THE TOPOGRAPHY AND PLANNETRICS HAVE BEEN EDITED FROM CURRENT FIELD SURVEYS. THE DATA INCLUDES CONTOURS AT A TWO FOOT INTERVAL AS WELL AS PHYSICAL FEATURES (PLANIMETRIC) AND EXISTING SURFACE UTILITIES. VERTICAL DATUM IS NAVD 83. HORIZONTAL DATUM IS NAD 83. BOTH WERE DERIVED FROM CONTROL SURVEYS WHICH EMPLOYED GLOBAL POSITIONING TECHNOLOGY.
 - SURFACE EVIDENCE OF PUBLIC AND PRIVATE UTILITIES IS BASED UPON MAPS AND RECORDS OF VISIBLE FEATURES. SUBSURFACE EVIDENCE IS BASED UPON SURVEY LOCATION PROVIDED BY MUNICIPALITIES, UTILITY COMPANIES, AND OTHER SOURCES, TOGETHER WITH SUCH REASONABLE ASSUMPTIONS AS MAY BE DRAWN FROM THE FIELD AND RECORD DATA. INFORMATION MAY NOT BE ACCURATE OR COMPLETE, AND IS SUBJECT TO CHANGE BY CHANGES AS ADDITIONAL DATA MAY DISCLOSE. ALL EXCAVATION MUST BE PRECEDED BY CONTACTING "DIG-SAFE" FOR A MORE RECENT LAYOUT OF EXISTING UTILITIES.
 - THE SITE LIES WITHIN FLOOD HAZARD ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN). SEE FLOOD INSURANCE RATE MAP NUMBER 44020385 DATED MARCH 2, 2009.
 - THE WETLANDS DELINEATION WAS CONDUCTED IN APRIL 2016 BY ECOLOGICAL RESOURCE CONSULTANTS, LLC.
 - THERE ARE NO EXISTING OR PROPOSED PUBLIC WATER SUPPLY SOURCES WITHIN 500' OF THE PROPOSED LOT OTHER THAN THOSE SHOWN ON PLAN.
 - THERE ARE NO EXISTING OR PROPOSED INDIVIDUAL WATER SUPPLIES WITHIN 200' OF THE PROPOSED LOT. WASTEWATER TREATMENT SYSTEM OTHER THAN THOSE SHOWN ON THE PLAN SHALL BE INSTALLED ALONG THE LIMIT OF DISTURBANCE. PERMANENT BUFFER ZONE MARKERS SHALL BE MAINTAINED UNTIL ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY SEDIMENTATION AND EROSION CONTROLS. ALL DISTURBED AREAS SHALL BE STABILIZED WITH 4" LOAM AND SEED OR SOO, PROPOSED SLOPES SHALL BE 3:1 (MAXIMUM).
 - ALL WORK SHALL BE PERFORMED IN STRICT CONFORMANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF ALL STATE AND LOCAL PERMITS.
 - ALL IMPROVEMENTS SHALL BE ACCURATELY LOCATED AND STAKED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 - EACH STAGE OF CONSTRUCTION OF THE INDIVIDUAL SEWAGE DISPOSAL SYSTEMS MUST BE SUPERVISED BY THE SYSTEM DESIGNER.
 - THE SITE IS WITHIN THE CUMBERLAND, PAWBUCKETT AND WOODSOCKET DRINKING WATER SUPPLY WATER SHED.
 - PRIOR TO COMMENCEMENT OF ANY SITE ALTERATIONS, PERMANENT BUFFER ZONE MARKERS MUST BE INSTALLED ALONG THE LIMIT OF DISTURBANCE AT THE LOCATIONS INDICATED ON THE PLAN. PERMANENT BUFFER ZONE MARKERS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION OF THE PROJECT. PERMANENT BUFFER ZONE MARKERS MUST BE PLACED ON POINTS ON THE SITE THAT ARE CLEAR TO PRESENT AND FUTURE PROPERTY OWNERS. A PERMANENT-TYPE TAG OR SIGN LABELLED "RIPRIEN BUFFER ZONE" MUST BE PLACED ON EACH MARKER. NO ALTERATIONS OF ANY KIND ARE PERMITTED BEYOND THESE MARKERS WITHOUT FIRST OBTAINING THE NECESSARY PERMIT FROM RIDEM.

DESIGN CRITERIA

SEWAGE FLOW - 4 BEDROOMS - 115 GALLONS PER BEDROOM UNIT
 PERCOLATION RATE - SOIL CATEGORY 3 - .70 GALLONS/SQ. FT./DAY
 TOTAL DAILY FLOW: 115 GALLONS/DAY/BEDROOM - 115 X 3 = 460 GALLONS PER DAY
 MINIMUM REQUIRED LEACH FIELD AREA: 460 GALLONS PER DAY (MAX.) - .70 GALS./SQ. FT./DAY = 657.1 SQ. FT.
 LEACH FIELD AREA PROVIDED: 24 ELIEN UNITS X 4' X 7' = 672 SQ. FT.
 LEACH FIELD DESIGN POINT: ELEVATION 278.0'
 PER RULE 33.5.2 A PROPERLY COMPACTED GRAVEL BASE MEETING THE REQUIREMENTS OF RULE 32.12 SHALL BE PLACED THROUGHOUT THE EXCAVATION TO AN ELEVATION 2" ABOVE THE TOP OF THE DISTRIBUTION LINES.
 DISPERSAL TRENCHES SHALL BE EXCAVATED OUT OF THE COMPACTED GRAVEL. THERE SHALL BE A MINIMUM 6" GRAVEL BASE LAYER MEETING THE REQUIREMENTS OF RULE 32.12 BELOW THE SPECIFIED SAND.

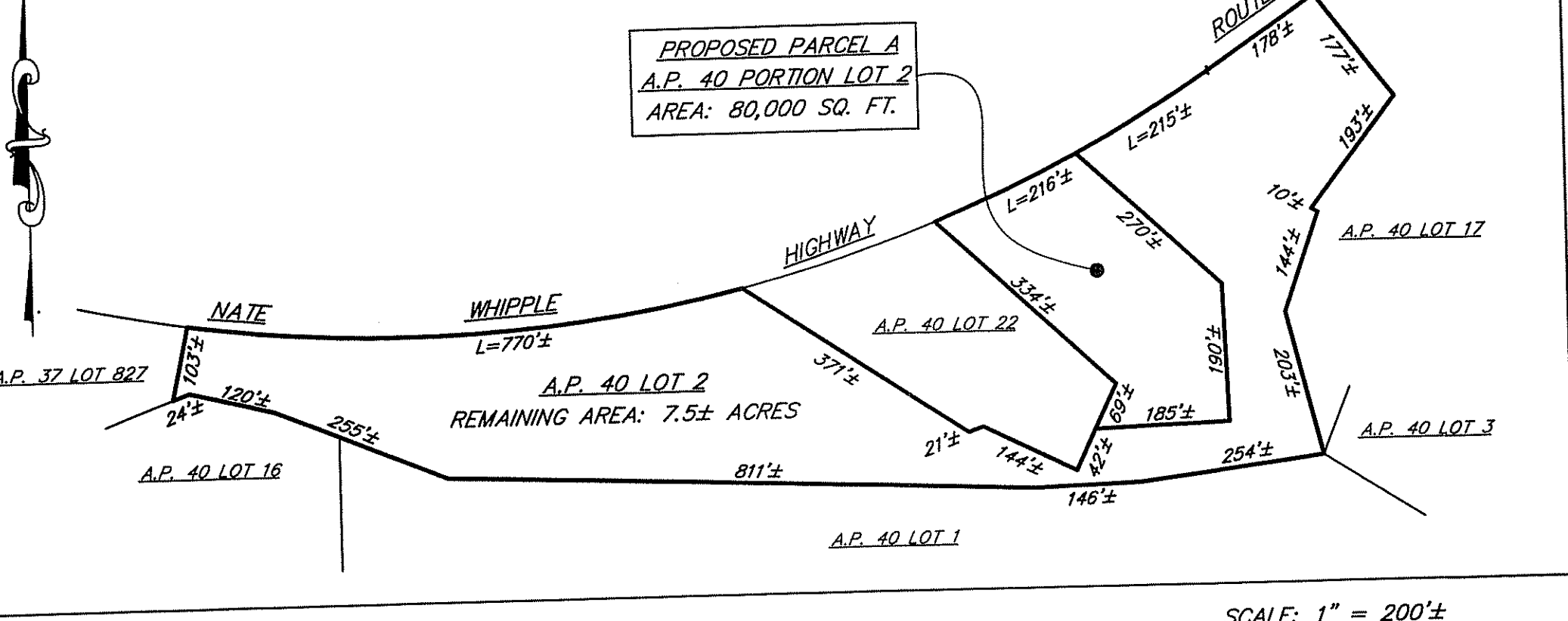
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED JUL 13 2017 FILE # 17-0067
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

Walter D. Wencel

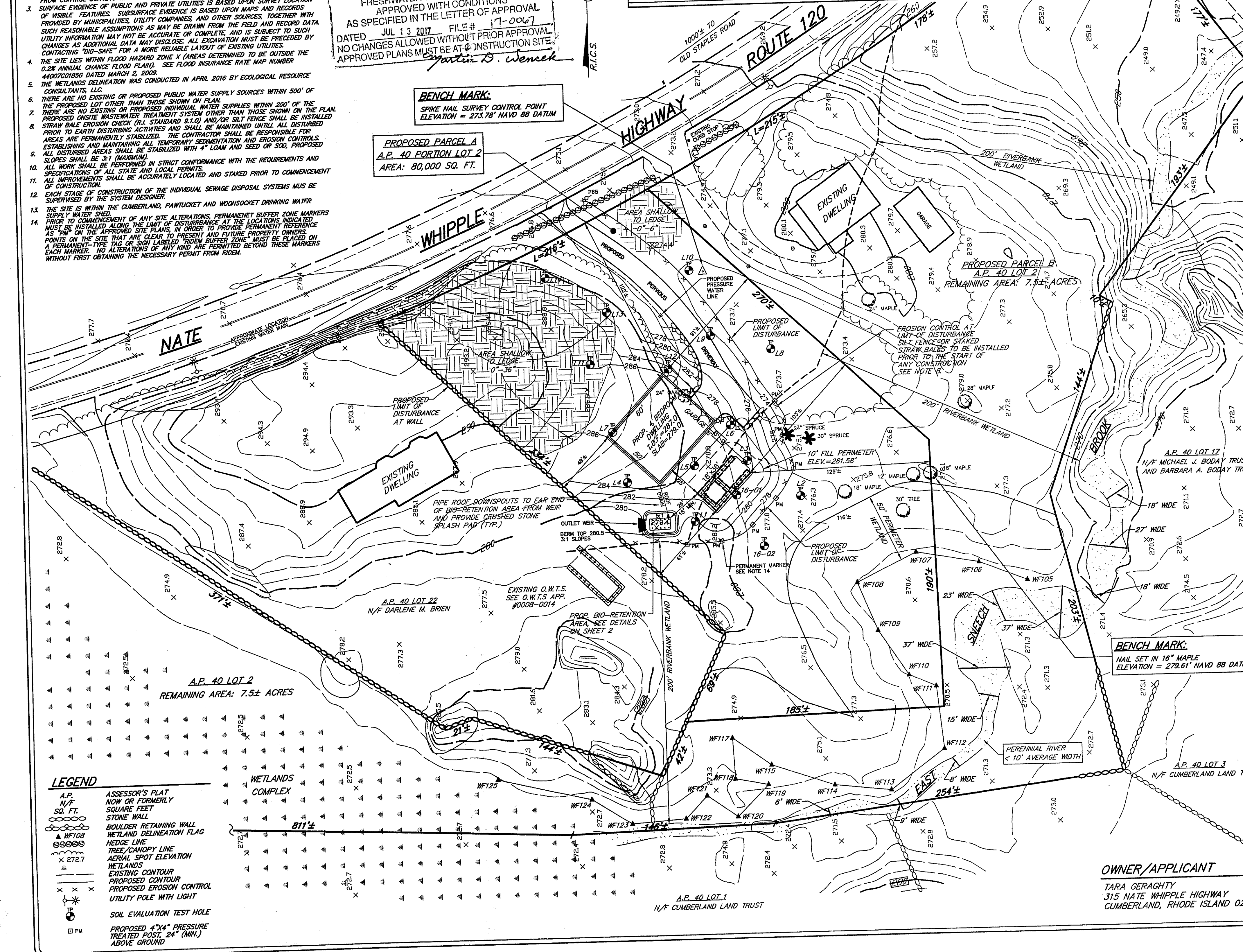
BENCH MARK:
 SPIKE NAIL SURVEY CONTROL POINT
 ELEVATION = 273.78' NAVD 88 DATUM

PROPOSED PARCEL A
 A.P. 40 PORTION LOT 2
 AREA: 80,000 SQ. FT.



COMPILATION PLAN SCALE: 1" = 200'

THIS COMPILATION PLAN IS A CLASS II BOUNDARY PREPARED FROM SOURCES OF INFORMATION AND DATA WHOSE POSITIONAL ACCURACY AND RELIABILITY HAS NOT BEEN VERIFIED. THE PROPERTY LINES HEREON DO NOT REPRESENT A BOUNDARY OPINION, AND ARE SUBJECT TO SUCH CHANGES AS AN AUTHORITY FIELD BOUNDARY SURVEY MAY (WOULD) DISCLOSE.

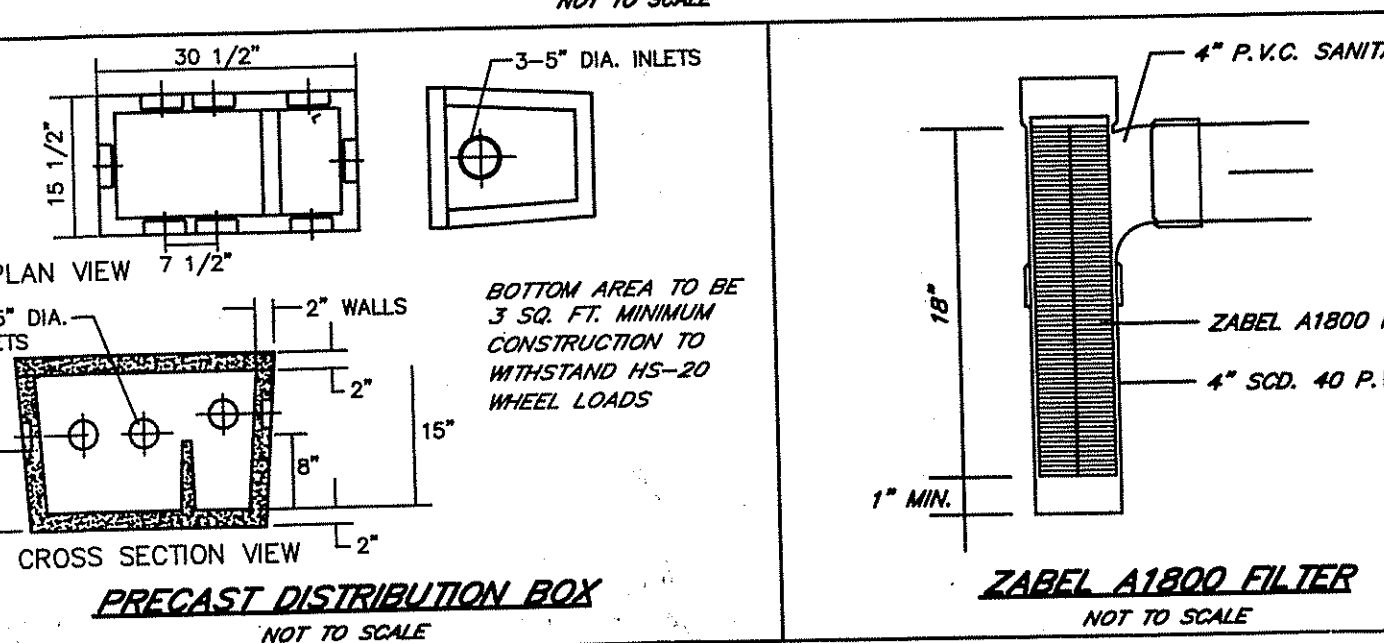
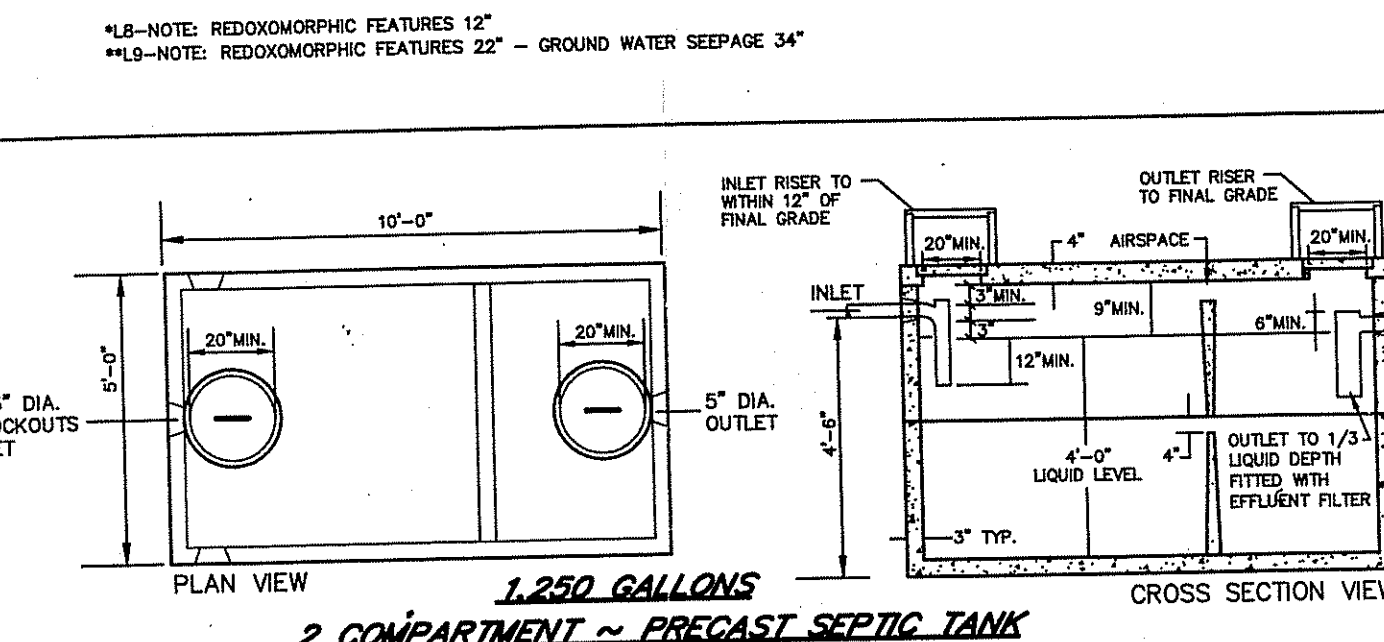


- LEGEND**
- A.P. ASSESSOR'S PLAT
 - N/F NOW OR FORMERLY
 - SQ. FT. SQUARE FEET
 - STONE WALL
 - BOULDER RETAINING WALL
 - WETLAND DELINEATION FLAG
 - WF108 HEDGE LINE
 - WF109 TREE CANOPY LINE
 - WF110 AERIAL SPOT ELEVATION
 - WF111 WETLANDS
 - WF112 EXISTING CONTOUR
 - WF113 PROPOSED CONTOUR
 - WF114 PROPOSED EROSION CONTROL
 - WF115 UTILITY POLE WITH LIGHT
 - WF116 SOIL EVALUATION TEST HOLE
 - WF117 PROPOSED 4" X 4" PRESSURE TREATED POST 24" (MIN.) ABOVE GROUND

GROUNDWATER & LEDGE DEPTH TABLE

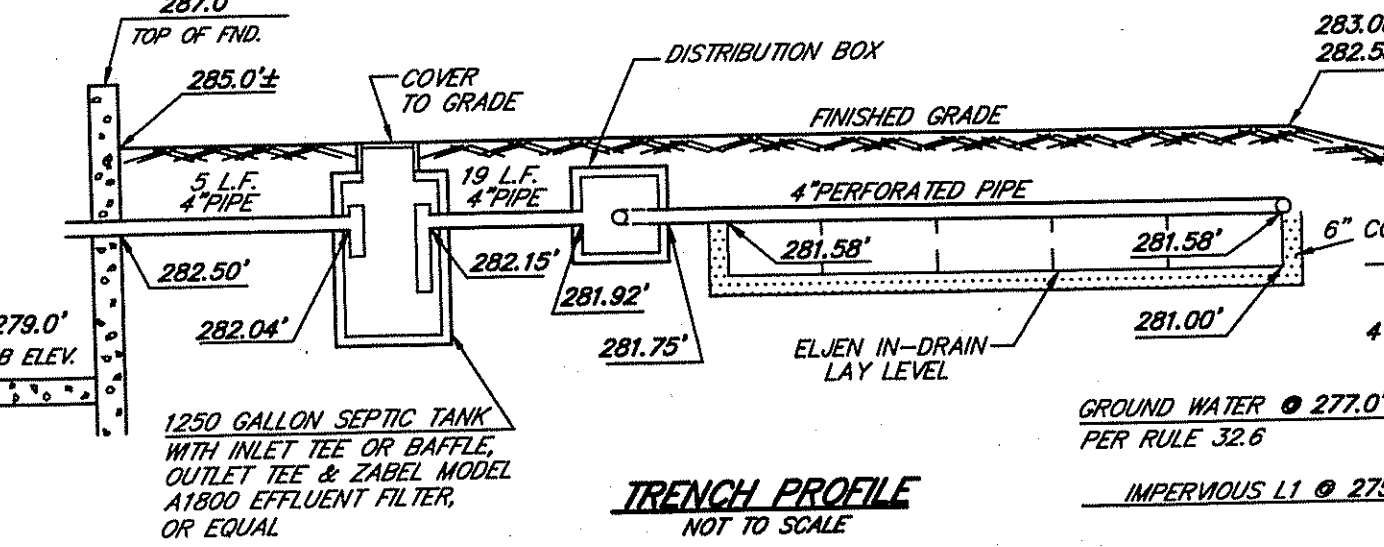
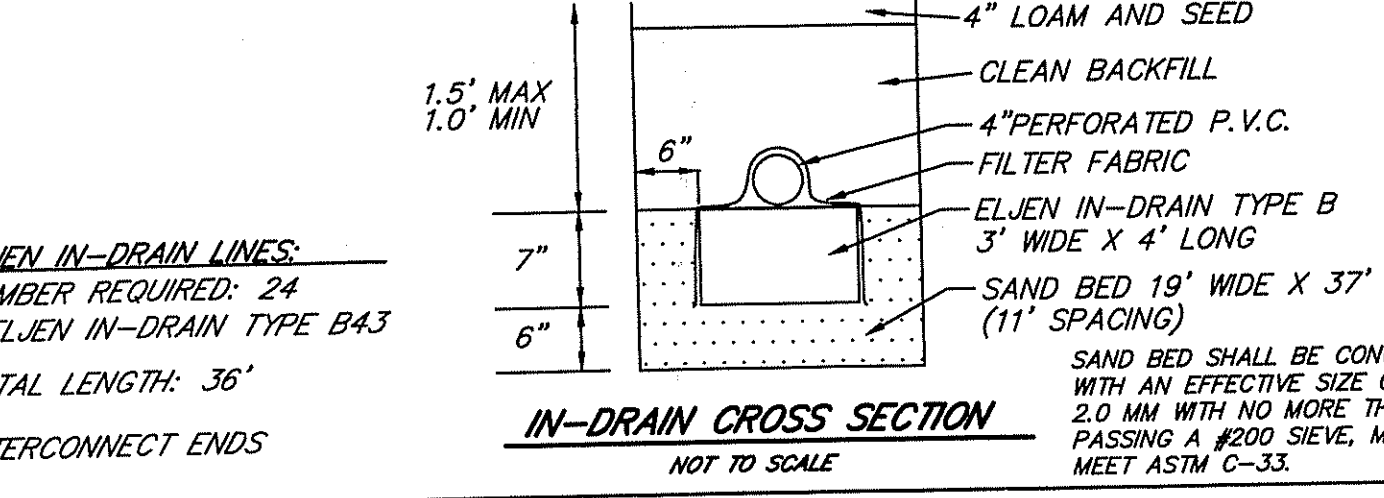
TEST PIT	GROUNDWATER DEPTH	GROUNDWATER ELEVATION	LEDGE DEPTH	LEDGE ELEVATION
16-01	2.0'	275.5'	9.5'	268.0'
16-02	2.0'	274.0'	8.0'	268.0'
L1	-	-	4.0'	275.0'
L2	-	-	5.5'	270.3'
L3	-	-	7.5'	269.6'
L4	-	-	1.6'	279.4'
L5	-	-	3.4'	275.6'
L6	-	-	2.1'	274.9'
L7	-	-	3.2'	281.3'
L8	-	-	3.5'	270.5'
WF9	-	-	4.0'	270.5'
L10	-	-	3.6'	270.2'
L11	-	-	0.7'-3.2'	286.3'-283.8'
L12	-	-	0.2'	278.8'
L13	-	-	0.5'-3.0'	281.5'-279.0'
L14	-	-	0.5'	279.5'

NOTE: REDUCED MORPHIC FEATURES 10"
 NOTE: REDUCED MORPHIC FEATURES 22" - GROUND WATER SEEPAGE 34"



DESIGN AND CONSTRUCTION NOTES:

- ALL WORK SHALL CONFORM TO THE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT RULES AND REGULATIONS.
- ALL AMENDMENTS TO THE PLAN SHALL BE PREPARED PURSUANT TO SECTION 9 OF THE RULES AND REGULATIONS AND SHALL BE APPROVED BY THE SYSTEM DESIGNER.
- THE CONTRACTOR SHALL NOTIFY THE DESIGNER OF ANY PROPOSED DEVIATIONS FROM THIS SITE PLAN. THE DESIGNER MUST PERFORM ALL NECESSARY INSPECTIONS, BOTH DURING AND AFTER INSTALLATION, BEFORE ANY COMPONENT OF THE SYSTEM IS COVERED.
- THE PROPERTY BOUNDARIES SHOWN HEREON HAVE BEEN COMPILED FROM MAPS, DEEDS, AND OTHER SOURCES OF INFORMATION, AND ARE SUBJECT TO SUCH MODIFICATIONS AS AN ACTUAL BOUNDARY SURVEY MAY DISCLOSE. TO THE EXTENT THAT SUCH BOUNDARIES ARE CRITICAL TO THE O.W.T.S. LOCATION, THEY MUST BE ESTABLISHED PRIOR TO CONSTRUCTION.
- ALL TREES, STUMPS, AND BRUSH WITHIN A 10' PERIMETER AROUND THE SYSTEM MUST BE REMOVED.
- THE EXCAVATION SHALL BE LEVEL AND SCAFFERED.
- ALL TOPSOIL AND SUBSOIL WITHIN A 5' PERIMETER OF THE SYSTEM SHALL BE STRIPPED AND BACKFILLED WITH CLEAN, COARSE GRAVEL. EXCAVATION INTO IMPERVIOUS MATERIAL IS PROHIBITED UNLESS OTHERWISE APPROVED BY THE DIRECTOR.
- MAINTAIN TRENCH INVERT ELEVATION FOR 10' BEYOND THE PERIMETER OF THE LEACHING FIELD. THE ADJACENT SIDE SLOPE SHALL NOT BE STEEPER THAN 3:1 FOR A 25' MIN. DISTANCE FROM THE EDGE OF LEACH FIELD. MAINTAIN 5' TO PROPERTY LINE FROM TOE OF 3:1 SIDE SLOPE.
- INSTALL CAST IRON PIPE OR EQUIVALENT FROM THE FOUNDATION TO THE SEPTIC TANK. ALL OTHER PIPES MUST BE SDR 35 P.V.C. OR EQUIVALENT.
- SUBSURFACE DRAINS AND WATER SUPPLY LINE TO BE INSTALLED IN CONFORMANCE WITH DISTANCES SPECIFIED IN TABLE 22.1.
- ALL KNOWN EXISTING AND PROPOSED PUBLIC WATER SUPPLY WELLS WITHIN 500' OF THE SYSTEM ARE SHOWN; ALL KNOWN EXISTING AND PROPOSED PRIVATE WELLS WITHIN 200' OF THE SYSTEM ARE SHOWN; ALL KNOWN EXISTING AND PROPOSED SEPTIC SYSTEMS WITHIN 100' OF THE WELL ARE SHOWN.
- ALL WORK MUST CONFORM TO THE REQUIREMENTS OF OTHER EXISTING PERMITS, IF ANY.
- WITH RESPECT TO MUNICIPAL ZONING REQUIREMENTS, THE DESIGNER HAS MADE A REASONABLE EFFORT TO ASCERTAIN THE APPLICABLE DIMENSIONAL SETBACKS AND OTHER CONSTRAINTS TO DEVELOPMENT. HOWEVER, THE POSSIBILITY OF UNRECORDED VARIANCES, NON-CONFORMING USES, AND OTHER RELEVANT DOCUMENTS, IT REMAINS THE RESPONSIBILITY OF THE OWNER TO VERIFY THAT THIS DESIGN SATISFIES LOCAL CODES.
- ALL STAGES OF CONSTRUCTION MUST BE SUPERVISED BY THE DESIGNER OF RECORD, UNLESS WAIVED BY THE DESIGNER. ALL IMPROVEMENTS MUST BE STAKED BY THE DESIGNER OR HIS AGENTS PRIOR TO CONSTRUCTION. THESE INCLUDE THE O.W.T.S., FOUNDATION, WELL, EROSION CONTROLS, CLEARING LIMITS AND ANY OTHER FEATURES DEEMED CRITICAL TO THE DESIGN.



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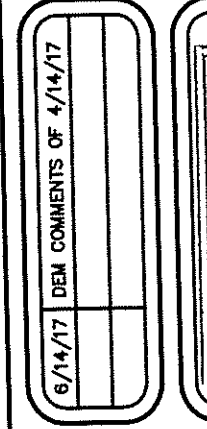
LAND SURVEYING/MAPPING/SITE PLANNING
 SCALE: 1"=40'

THIS SURVEY HAS BEEN CONDUCTED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE BOARD OF PROFESSIONAL LAND SURVEYORS OF THE STATE OF RHODE ISLAND AS FOLLOWS:

MEASUREMENT: ANGULAR
 DISTANCE: ELECTRONIC
 CLASS II: VERTICAL CONTROL STANDARD 1-3
 CLASS II: HORIZONTAL CONTROL STANDARD 1-3
 CLASS II: BOUNDARY PREPARED FROM SOURCES OF INFORMATION AND DATA WHOSE POSITIONAL ACCURACY AND RELIABILITY HAS NOT BEEN VERIFIED. THE PROPERTY LINES HEREON DO NOT REPRESENT A BOUNDARY OPINION, AND ARE SUBJECT TO SUCH CHANGES AS AN AUTHORITY FIELD BOUNDARY SURVEY MAY (WOULD) DISCLOSE.

STANDARD: AS PER THE SURVEY WAS TO CONDUCT A DATA ACCUMULATION SURVEY, AND TO COLLECT, TRANSMIT, AND PRESERVE LOCATION DATA FOR AERIAL PHOTOGRAMMETRY AND TO CONDUCT A DATA ACCUMULATION SURVEY FOR THE PURPOSE OF PREPARING A CLASS II BOUNDARY SURVEY. THIS SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE BOARD OF PROFESSIONAL LAND SURVEYORS OF THE STATE OF RHODE ISLAND AS FOLLOWS:

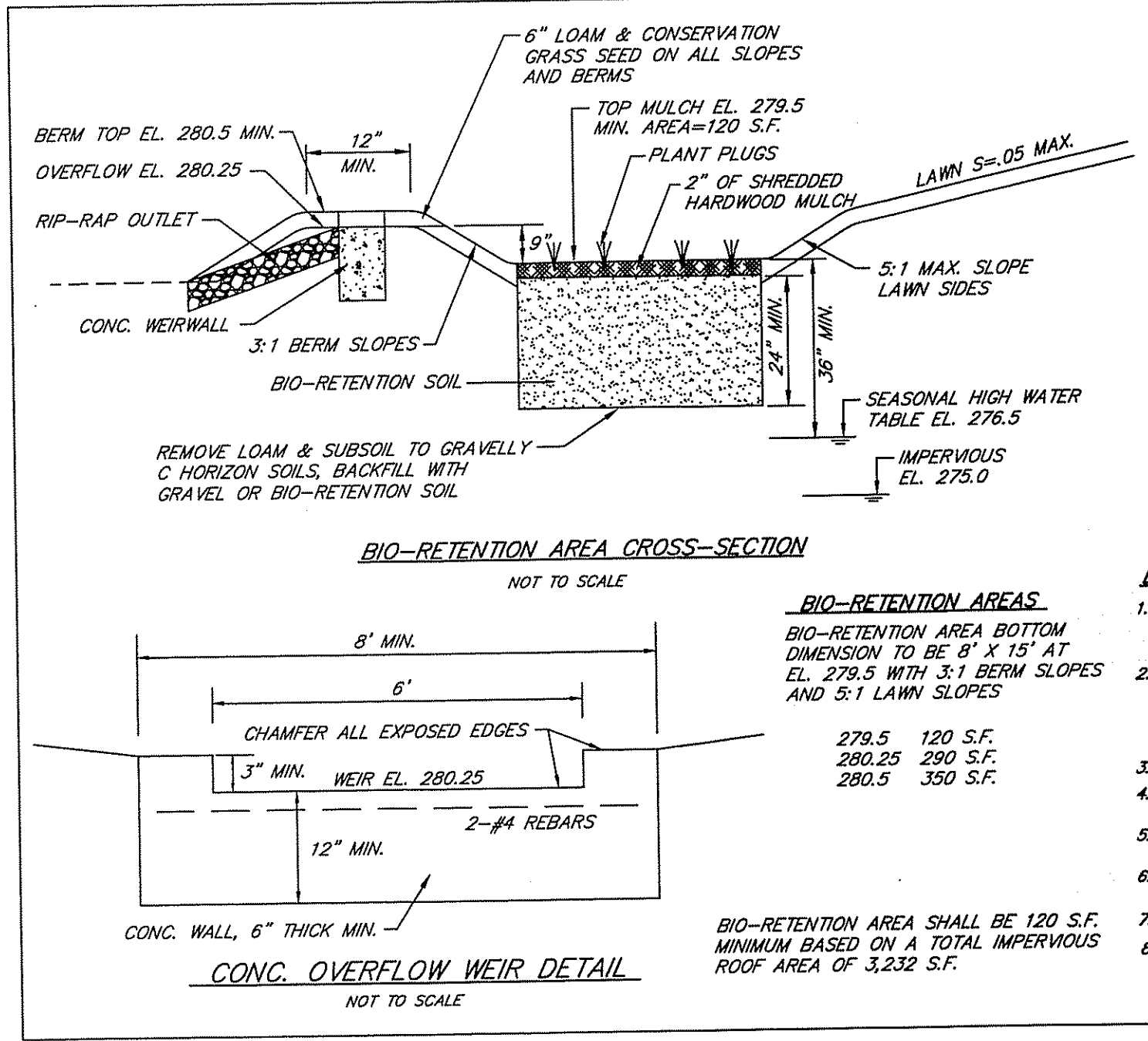
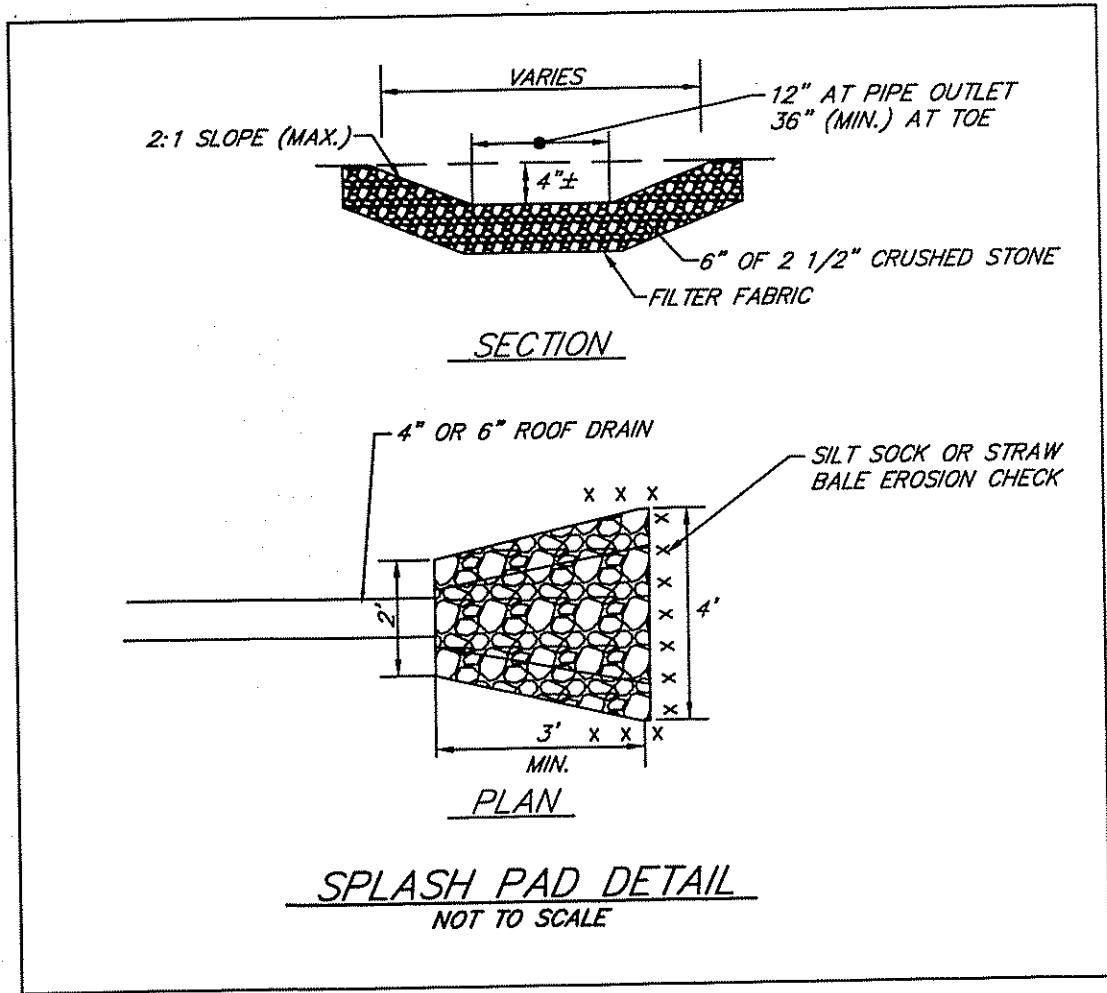
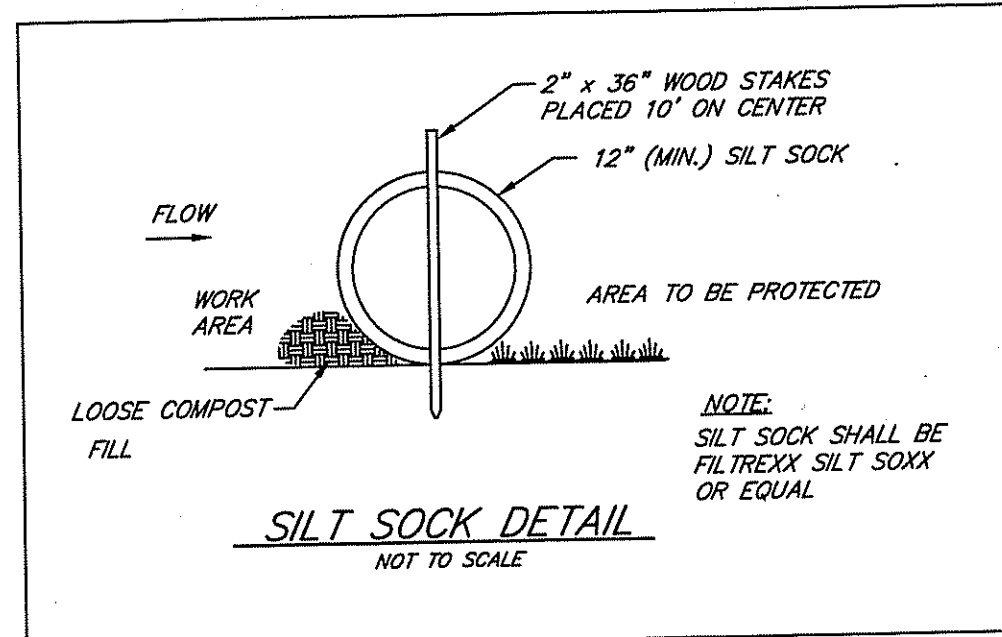
ANGELO M. RAIMONDI
 152
 PROFESSIONAL LAND SURVEYOR



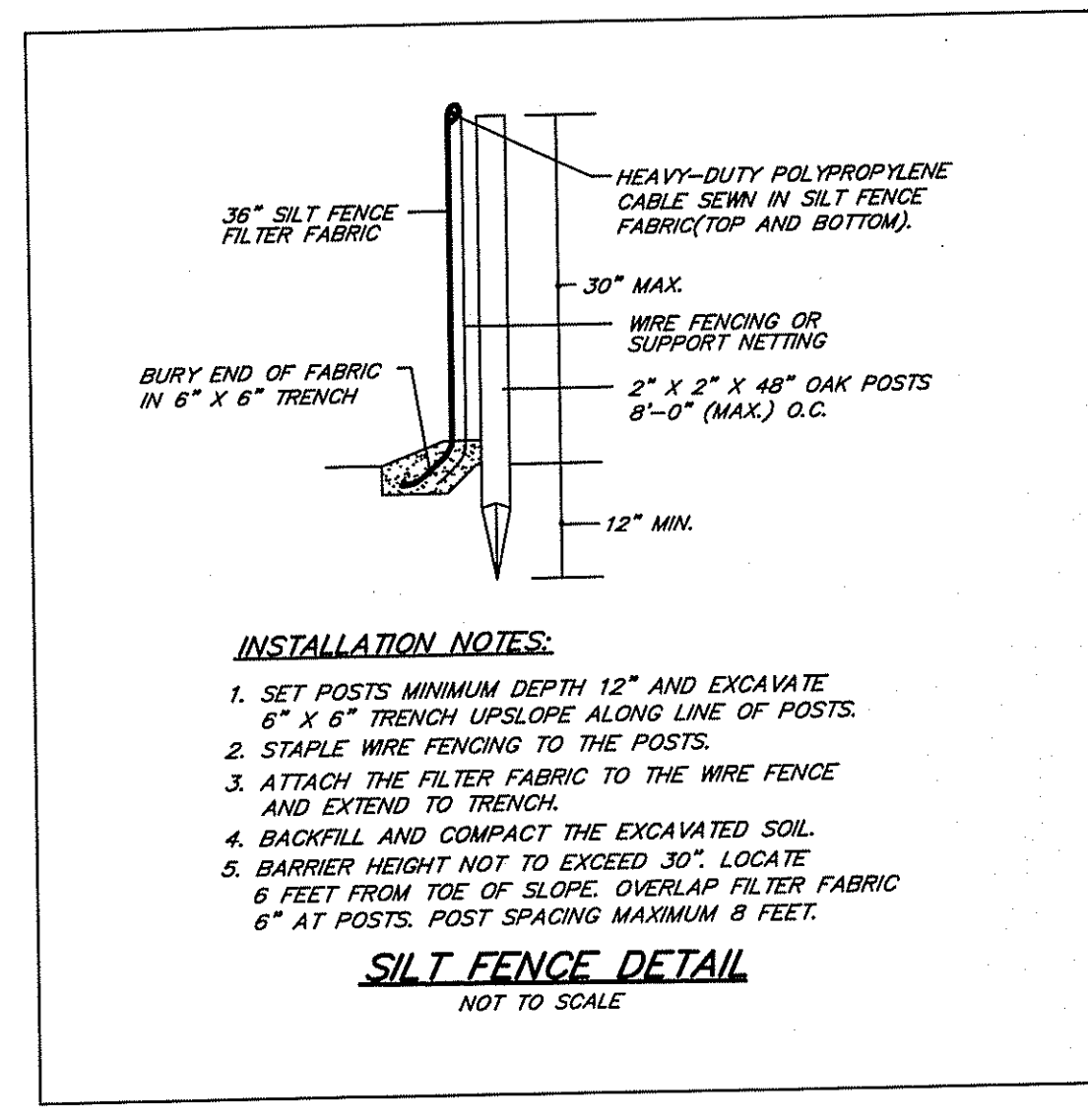
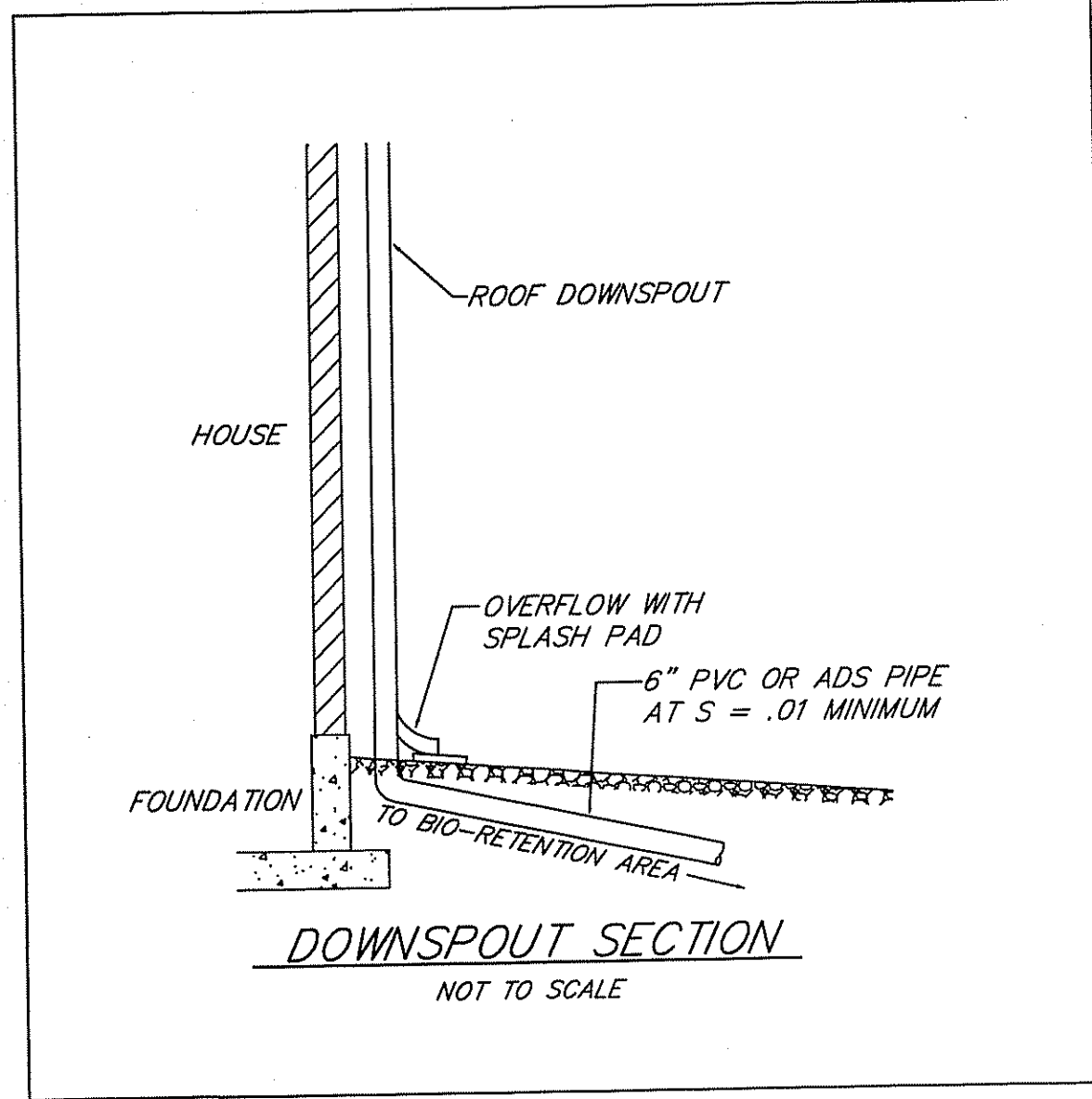
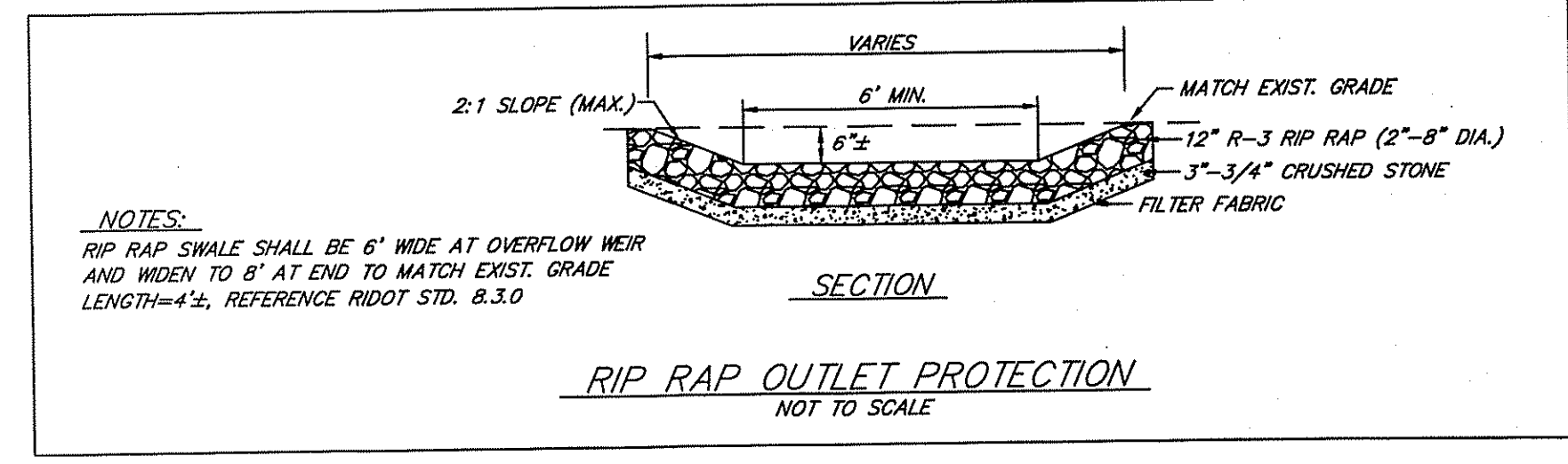
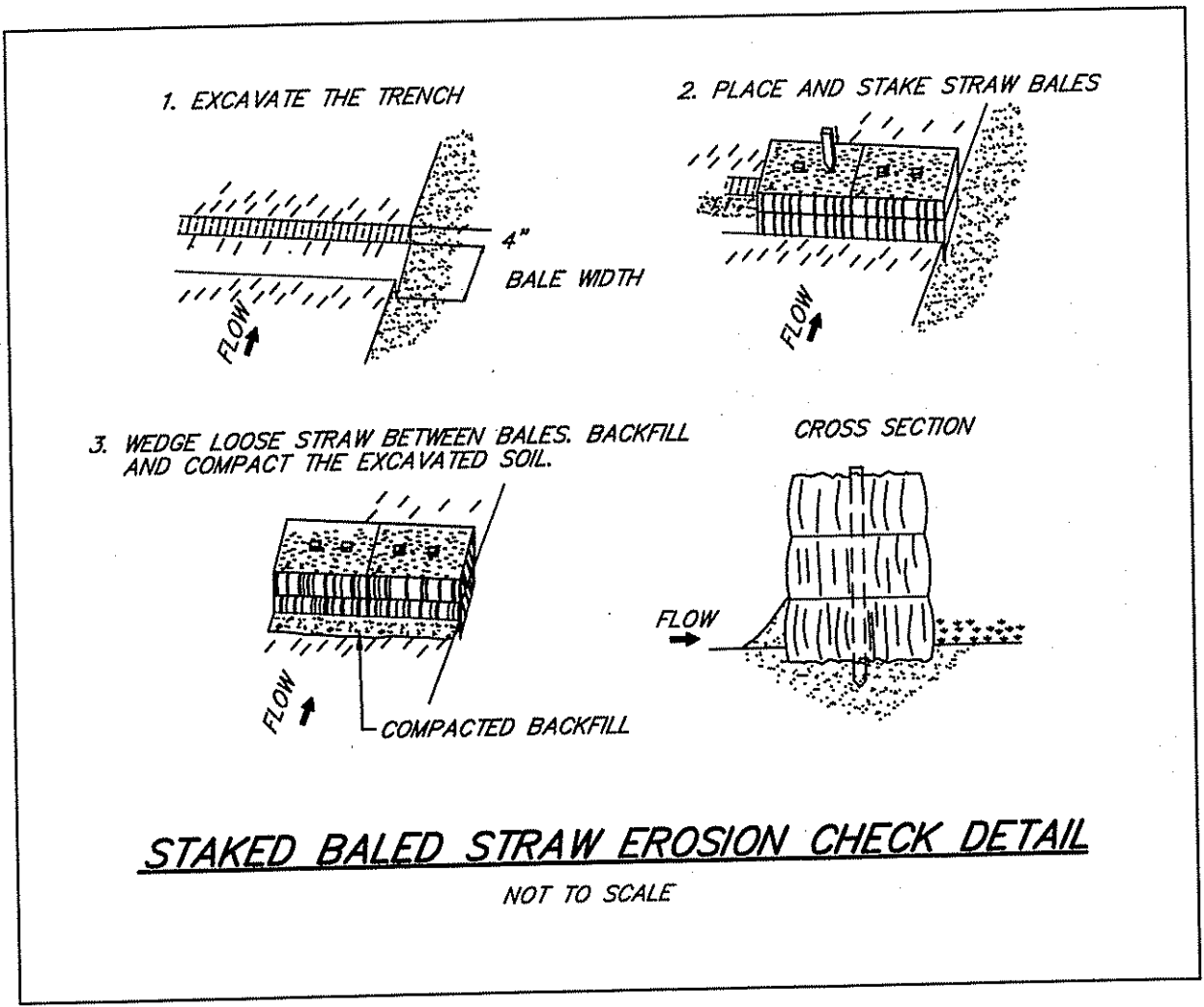
PLAN OF PROPOSED IMPROVEMENTS TO
PARCEL A
 ASSESSOR'S PLAT 40, PORTION LOT 2
 NATE WHIPPLE HIGHWAY ~ ROUTE 120
 CUMBERLAND, RHODE ISLAND
 PREPARED FOR: TARA GERAGHTY

PROJECT NO.: SS2759
 DRAWING NO.: SS4366
 SHEET 1 OF 2

SCALE: 1"=40' DATE: FEBRUARY 14, 2017 REVISION: JUNE 14, 2017



- BIO-RETENTION AREA NOTES**
- BIO-RETENTION AREAS SHALL BE PROTECTED FROM COMPACTION PRIOR TO AND DURING CONSTRUCTION.
 - ALL LOAM & SUBSOIL SHALL BE STRIPPED AND THE AREA EXCAVATED TO DESIGN BOTTOM GRADE. BIO-RETENTION SOIL SHALL BE PLACED TO A DEPTH OF 24" AND COVERED WITH 2" OF MULCH.
 - MULCH SHALL BE SHREDDED HARDWOOD MULCH.
 - BOTTOM OF BIO-RETENTION AREA SHALL BE PLANTED WITH AN EQUAL MIXTURE OF BLUELAG IRIS, WOOL GRASS AND PICKEREL WEED PLUGS AT 18" ON CENTER. PLANTINGS SHALL COMPLY WITH APPENDIX B.9.3 OF THE R.I. STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL (MARCH 2015).
 - BIO-RETENTION AREA PLANTINGS SHALL BE INSTALLED BY A LANDSCAPE CONTRACTOR. SURVIVAL SHALL BE GUARANTEED FOR ONE YEAR.
 - BIO-RETENTION SOIL SHALL HAVE A LOAMY SAND TEXTURE AND CONFORM TO THE FOLLOWING GRADATION:
SAND 85 - 88%
SILT 8 - 12%
CLAY 0 - 2%
ADD ORGANIC MATTER (LEAF COMPOST) TO LOAMY SAND, 3% - 5% BY VOLUME
- BIO-RETENTION AREA MAINTENANCE PLAN**
- BIO-RETENTION AREA SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL FINAL APPROVAL OF CONSTRUCTION. AFTER FINAL APPROVAL THE AREA SHALL BE MAINTAINED BY THE OWNER.
 - DURING THE SIX MONTHS IMMEDIATELY AFTER CONSTRUCTION, BIO-RETENTION AREA SHALL BE INSPECTED FOLLOWING THE FIRST TWO RAIN EVENTS EQUAL TO OR GREATER THAN THE 1-YEAR, 24 HOUR TYPE II STORM EVENT. AFTER THAT PERIOD, IT SHALL BE INSPECTED THREE TIMES PER YEAR.
 - SOIL EROSION GULLIES SHALL BE REPAIRED WHEN THEY OCCUR.
 - IF STANDING WATER REMAINS 48 HOURS AFTER A RAINFALL EVENT, THE BOTTOM SHALL BE ROTO-TILLED THEN RE-SEED.
 - MULCH LAYER SHALL BE REPLENISHED TO ORIGINAL DEPTH EVERY OTHER YEAR. PREVIOUS MULCH LAYER SHALL BE REMOVED.
 - PRUNING OR REPLACEMENT OF VEGETATION SHOULD OCCUR WHEN DEAD OR DYING VEGETATION IS OBSERVED.
 - SILT AND DEBRIS SHALL BE REMOVED WHEN ACCUMULATION EXCEEDS MINIMUM BASED ON A TOTAL IMPERVIOUS ROOF AREA OF 3,232 S.F.

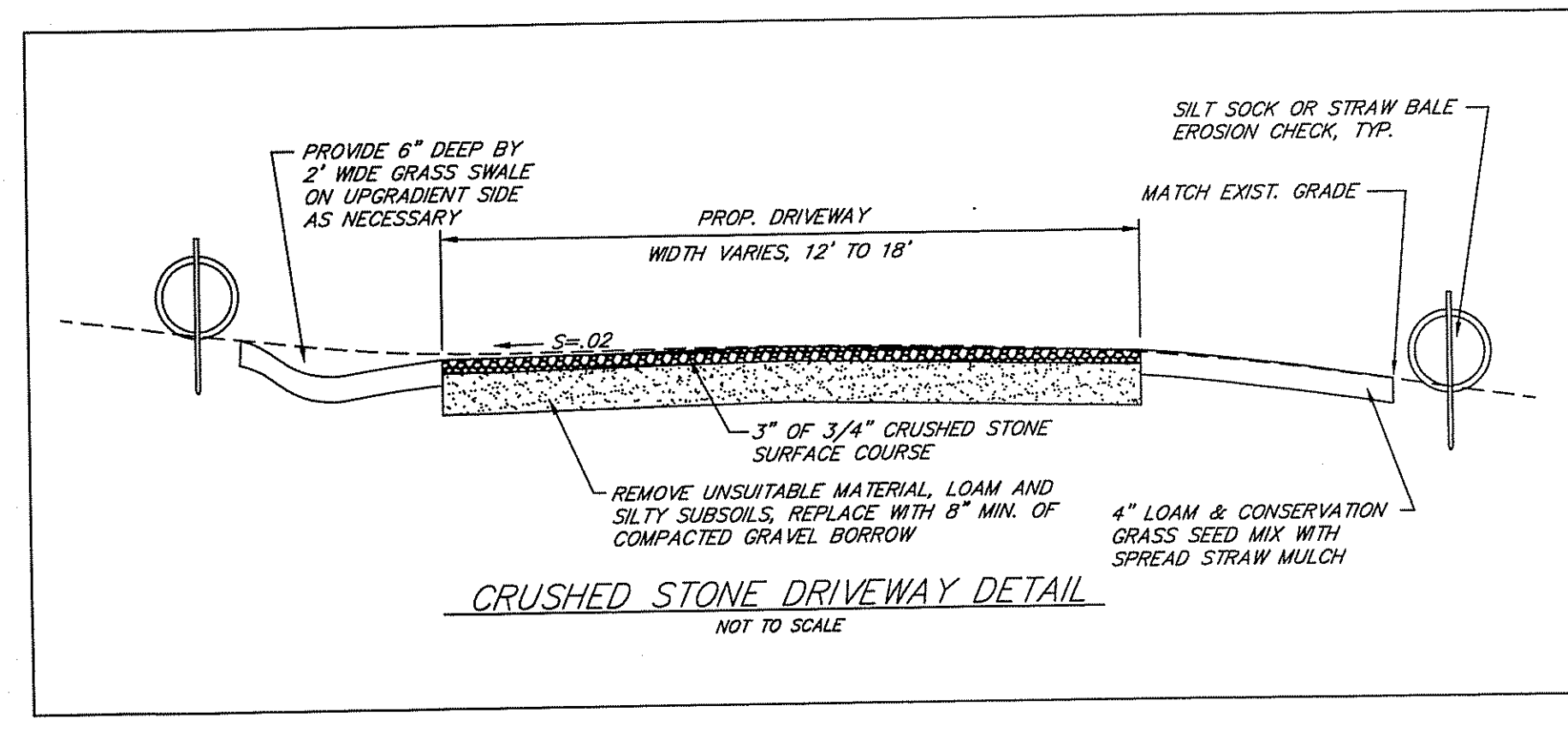


- INSTALLATION NOTES:**
- SET POSTS MINIMUM DEPTH 12" AND EXCAVATE 6" X 6" TRENCH UPSLOPE ALONG LINE OF POSTS.
 - STAKE WIRE FENCING TO THE POSTS.
 - ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND TO TRENCH.
 - BACKFILL AND COMPACT THE EXCAVATED SOIL.
 - BARRIER HEIGHT NOT TO EXCEED 30". LOCATE 6 FEET FROM TOE OF SLOPE. OVERLAP FILTER FABRIC 6" AT POSTS. POST SPACING MAXIMUM 8 FEET.

ROCK STABILIZATION PAD AT CONSTRUCTION ENTRANCE
NOT TO SCALE

SQUARE MESH SIEVES	RIDOT 2" CRUSHED STONE OR GRAVEL	% FINER
2 1/2"		100
2"		95-100
1 1/2"		30-55
1 1/4"		0-25
1"		0-5

REFERENCE R.I. SOIL EROSION & SEDIMENT CONTROL HANDBOOK CHAPTER 5 SECTION D



SCOTT F. MOOREHEAD
REGISTERED PROFESSIONAL ENGINEER
No. 4298

DRAINAGE DESIGNER/ENGINEER
S.F.M. ENGINEERING ASSOCIATES
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DATE: 3/3/16
REVISION: R.I.D.E.M. COMMENTS OF 1/15/18

CHK. BY: SFM
JOB. NO. SFM844

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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DATED JUL 13 2017 FILE # 17-0067
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Jonathan D. Wench

OWNER/APPLICANT
TARA GERAGHTY
315 NATE WHIPPLE HIGHWAY
CUMBERLAND, RHODE ISLAND 02864

SCITUATE SURVEYS, INC.
110 TIOGUE AVENUE
COVENTRY, R.I. 02816
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LAND SURVEYING/MAPPING/SITE PLANNING

PLAN OF PROPOSED IMPROVEMENTS TO PARCEL A
ASSESSOR'S PLAT 40, PORTION LOT 2
NATE WHIPPLE HIGHWAY ~ ROUTE 120
CUMBERLAND, RHODE ISLAND
PREPARED FOR: TARA GERAGHTY
JUN 16 2017

SCALE: 1"=40'
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PROJECT NO.: SS2759
DRAWING NO.: SS4366
SHEET 2 OF 2