



LOCUS
NOT TO SCALE

- GENERAL NOTES:
1. THE PARCEL IS PLAT 25, LOT 167.
 2. THE TOTAL PARCEL AREA IS 31,286 S.F. OR 0.7182 ACRES.
 3. THE PARCEL IS ZONED: A-2 (AREAS WITH PUBLIC WATER OR SEWER BUT NOT BOTH).
 4. SEE DEED BOOK 1830 AT PAGE 494 FOR TITLE REFERENCE.
 5. THE BASIS OF BEARING SHOWN WAS TAKEN FROM A MAGNETIC READING PERFORMED ON AUGUST 6, 2019.
 6. THE EXISTING WETLAND EDGE WAS DELINEATED BY NATURAL RESOURCE SERVICES, INC., ON AUGUST 7, 2019.
 7. THE PARCEL IS LOCATED WITHIN A DRINKING WATER SUPPLY WATERSHED.
 8. THERE WERE NO SOIL EVALUATION TEST HOLES OR WATER TABLE DETERMINATIONS PERFORMED ON THE SITE AT THE TIME OF PLAN PREPARATION. THE BASEMENT SLAB ELEVATION IS TO BE DETERMINED BY OTHERS.

- GENERAL CONTRACTOR'S NOTES:
1. ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE AND ARE TAKEN FROM EXISTING FIELD LOCATION AND/OR EXISTING PLANS.
 2. NO EXCAVATION IS TO OCCUR UNTIL "DIG SAFE" AND ALL APPROPRIATE UTILITY COMPANIES HAVE BEEN NOTIFIED AND MARKED THE EXACT LOCATION ON THE GROUND.

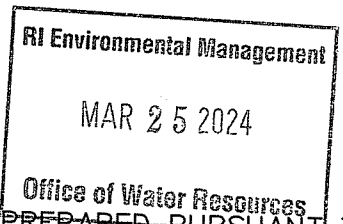
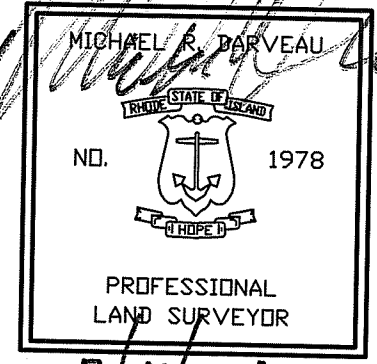
- PLAN REFERENCES:
1. PLAN ENTITLED "SUBDIVISION OF LAND IN CUMBERLAND, RHODE ISLAND, OWNED BY JAMES & LOIS W. TURNER, LOT 15 OF A.P. 25, PREPARED FOR RICHARD DUFALD, SURVEYED AND DRAWN BY DRURY SURVEYING, INC., SCALE: 1" = 80', DATED: AUG. 1992," WHICH IS RECORDED IN THE TOWN OF CUMBERLAND REGISTRY OF DEEDS ON PLAT CARD 941.
 2. RHODE ISLAND STATE HIGHWAY PLAT NO. 1226.

TEST HOLE DATA: GROUND WATER TABLE DATA: #1908-0972
 DATE DUG - 8/7/19 SOIL EVALUATION BY EDWARD J. AVIZINIS
 TEST HOLE: TH#1 W.T. DEPTH = 8'-2" W.T. ELEV. = 90.3
 TEST HOLE: TH#2 W.T. DEPTH = >12'-0" W.T. ELEV. = >88.0

REQUIRED CAPACITY OF LEACHING SYSTEM:
 4 BEDROOMS X 115 GALLONS PER BEDROOM = 460 GALLONS PER DAY

DESIGN GEOMATRIX GST ON CATEGORY 1M SOILS
 GST DESIGN RATE = 0.61 GAL/S.F./DAY
 GST AREA REQUIRED: 755 SQUARE FEET
 755 S.F. / 17.5 S.F./L.F. EFFECTIVE LEACHING CREDIT = 44 L.F. REQUIRED
 GST SIZE PROPOSED: 2 - 34' LONG GST TRENCHES = 68 L.F.
 GST OVERALL SIZE PROPOSED: 13.8' WIDE BY 36' LONG
 GST AREA PROPOSED: 1,190 SQUARE FEET

- ADDITIONAL SEPTIC NOTES:
1. ALL FILL AND/OR UNSUITABLE MATERIALS WITHIN 5- FEET OF THE PROPOSED GST TRENCH SHALL BE REMOVED AND REPLACED WITH CLEAN COARSE SEPTIC GRAVEL AS NEEDED.
 2. THE SEPTIC TANK IS TO BE AT LEAST 5- FEET OFF THE DWELLING AND 10- FEET OFF THE GST TRENCHES.
 3. THERE ARE NO FOUNDATION DRAINS PROPOSED WITHIN 25- FEET OF THE O.W.T.S.



THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 435-RICR-00-00-1.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON NOVEMBER 25, 2015, AS FOLLOWS:

TYPE OF SURVEY: LIMITED CONTENT BOUNDARY SURVEY
 DATA ACCUMULATION SURVEY
 TOPOGRAPHIC ACCURACY

MEASUREMENT SPECIFICATION:
 CLASS I
 CLASS III
 T-2

STATEMENT OF PURPOSE:
 THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS:
 1) PREPARE A PROPOSED O.W.T.S. PLAN.

BY: *[Signature]* 3/7/24
 MICHAEL R. DARVEAU, PLS#1978
 PRESIDENT, DARVEAU LAND SURVEYING, INC. DATE
 COA #LS-A497

DARVEAU LAND SURVEYING, INC.
 PROFESSIONAL LAND SURVEYORS
 P.O. BOX 7918
 CUMBERLAND, R.I. 02864
 PHONE (401) 475-5700
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PROPOSED O.W.T.S. PLAN FOR
ROBERT STANTON
 PLAT 25, LOT 167
 705 NATE WHIPPLE HIGHWAY
 CUMBERLAND, RHODE ISLAND

SCALE: 1" = 30'	DATE: 3-7-2024	SHEET: 1 OF 6	PROJECT: 2019_021
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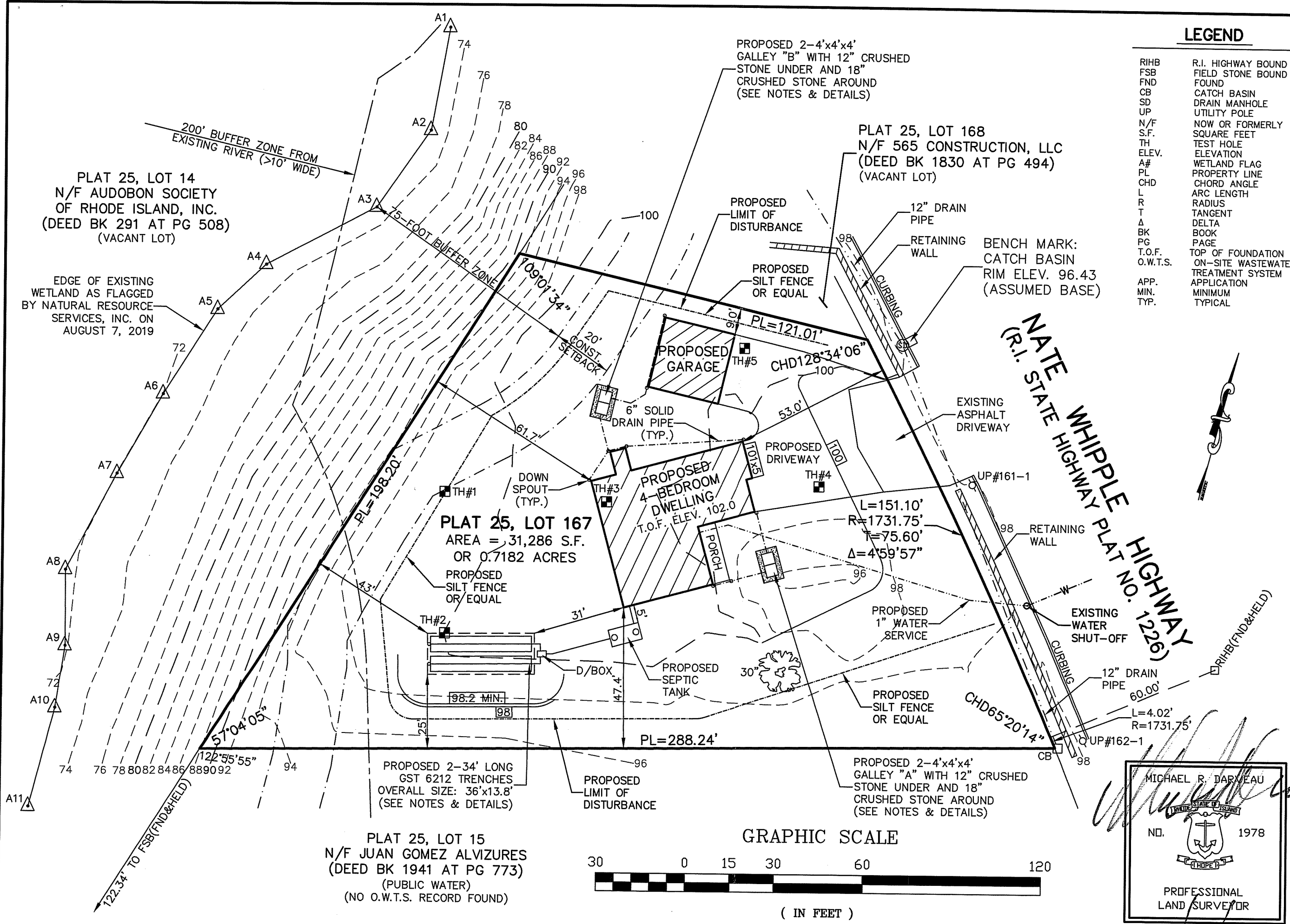
LEGEND

RIHB	R.I. HIGHWAY BOUND
FSB	FIELD STONE BOUND
FND	FOUND
CB	CATCH BASIN
SD	DRAIN MANHOLE
UP	UTILITY POLE
N/F	NOW OR FORMERLY
S.F.	SQUARE FEET
TH	TEST HOLE
ELEV.	ELEVATION
A#	WETLAND FLAG
PL	PROPERTY LINE
CHD	CHORD ANGLE
L	ARC LENGTH
R	RADIUS
T	TANGENT
Δ	DELTA
BK	BOOK
PG	PAGE
T.O.F.	TOP OF FOUNDATION
O.W.T.S.	ON-SITE WASTEWATER TREATMENT SYSTEM APPLICATION
APP. MIN. TYP.	MINIMUM TYPICAL

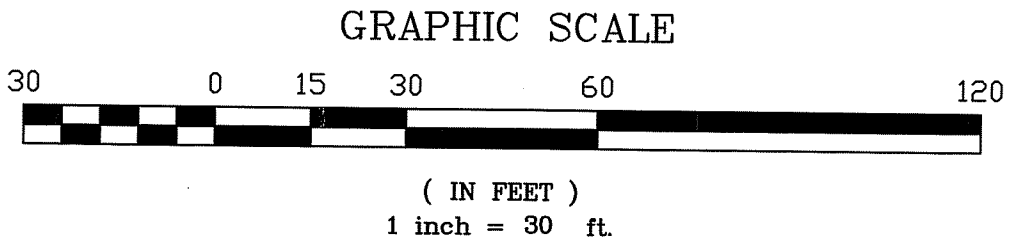
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SCALE: 1" = 30'	DATE: 3-7-2024	SHEET: 2 OF 6	PROJECT: 2019_021
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MICHAEL R. DARVEAU
 NO. 1978
 PROFESSIONAL LAND SURVEYOR
 3/7/24



PLAT 25, LOT 15
 N/F JUAN GOMEZ ALVIZURES
 (DEED BK 1941 AT PG 773)
 (PUBLIC WATER)
 (NO O.W.T.S. RECORD FOUND)

PROPOSED 2-34' LONG
 GST 6212 TRENCHES
 OVERALL SIZE: 36'x13.8'
 (SEE NOTES & DETAILS)

PROPOSED 2-4'x4'x4'
 GALLEY "A" WITH 12" CRUSHED
 STONE UNDER AND 18"
 CRUSHED STONE AROUND
 (SEE NOTES & DETAILS)

PROPOSED 2-4'x4'x4'
 GALLEY "B" WITH 12" CRUSHED
 STONE UNDER AND 18"
 CRUSHED STONE AROUND
 (SEE NOTES & DETAILS)

PLAT 25, LOT 168
 N/F 565 CONSTRUCTION, LLC
 (DEED BK 1830 AT PG 494)
 (VACANT LOT)

PLAT 25, LOT 14
 N/F AUDOBON SOCIETY
 OF RHODE ISLAND, INC.
 (DEED BK 291 AT PG 508)
 (VACANT LOT)

EDGE OF EXISTING
 WETLAND AS FLAGGED
 BY NATURAL RESOURCE
 SERVICES, INC. ON
 AUGUST 7, 2019

PLAT 25, LOT 167
 AREA = 31,286 S.F.
 OR 0.7182 ACRES

NATE WHIPPLE HIGHWAY
 (R.I. STATE HIGHWAY PLAT NO. 1226)

GENERAL NOTES:

1. THE SLOPE OF BUILDING SEWER FROM DWELLING TO SEPTIC TANK SHALL NOT BE LESS THAN 1% AND NOT GREATER THAN 5%.
2. THE OUTLET AND INLET PIPES SHALL BE CONNECTED TO THE SEPTIC TANK WITH A WATERTIGHT SEALED FLEXIBLE JOINT. THE PIPE GASKET SHALL BE AN INTEGRAL PART OF ALL TANKS AND THE PIPE GASKET SHALL BE FASTENED TO THE PIPE WITH A STAINLESS STEEL RETRACTABLE CLAMP. A FRICTION FIT CONNECTION IS ONLY ALLOWED IF THE TANK IS PERFORMANCE TESTED.
3. SURFACE WATER SHALL BE DIVERTED AWAY FROM THE SEPTIC TANK OPENING.
4. ACCESSIBILITY TO SEPTIC TANKS SHALL BE LOCATED ON THE LOT AS TO BE ACCESSIBLE FOR SERVICING AND CLEANING.
5. INSTALLATION OF ALL SEPTIC TANKS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S MINIMUM REQUIREMENTS. IN ADDITION, ALL SEPTIC TANKS MUST MEET THE INSTALLATION REQUIREMENTS SPECIFIED.
6. BACK FILL SHALL BE PLACED AROUND THE SEPTIC TANK IN SUCH A MANNER AS TO AVOID DAMAGE TO IT. ALL BACK FILL PLACED AROUND THE SEPTIC TANK SHALL BE FREE OF LARGE STONES, STUMPS, WASTE, CONSTRUCTION MATERIAL AND RUBBISH.
7. WHENEVER MORE THAN 25% OF THE DAILY DESIGN FLOW IS PUMPED INTO A SEPTIC TANK, THE TANK CAPACITY SHALL BE INCREASED BY 50% BEYOND THE MINIMUM CAPACITIES.
8. THE MINIMUM COVER OVER THE INVERT OF THE OUTLET SHALL BE 18". IF THE DEPTH OF COVER EXCEEDS 42", THE OWTS APPLICATION SHALL INCLUDE DOCUMENTATION OF THE TANK'S ABILITY TO STRUCTURALLY WITHSTAND THE LOADING, AND THE TANK'S DESIGN SHALL ALLOW FOR PROPER MAINTENANCE AND ACCESS.
9. WHEN A TIPPING DISTRIBUTION BOX IS USED, THE DISTRIBUTION BOX SHALL HAVE A MINIMUM 10" DIAMETER ACCESS OPENING BROUGHT TO FINISH GRADE. OWTS SYSTEMS WITH A FLOW OVER 2000 GALLONS PER DAY SHALL HAVE A MINIMUM 18" MANHOLE OVER EACH DISTRIBUTION BOX WITH AN EXTRA HEAVY DUTY FRAME AND COVER TO FINISHED GRADE.
10. LEACHING CONSTRUCTION WHERE THE INVERT OF DISTRIBUTION LINES IS BELOW GRADE, THE SOIL BETWEEN DISPERSAL TRENCHES SHALL REMAIN UNDISTURBED.
11. THE MINIMUM DISTANCE BETWEEN WALLS OF ADJACENT DISPERSAL TRENCHES SHALL BE 5' WHERE THE INVERT OF DISTRIBUTION LINES IS BELOW GRADE.
12. LEACHING CONSTRUCTION WHERE THE INVERT OF DISTRIBUTION LINES IS ABOVE THE ORIGINAL GRADE, THE LEACHING FIELD AREA AND 5' BEYOND SHALL BE STRIPPED OF ALL TOPSOIL.
13. A MINIMUM 10' HORIZONTAL SEPARATION DISTANCE SHALL BE PROVIDED BETWEEN THE OUTER EDGE OF THE GST IN THE TRENCHES AND ANY GROUND SURFACE ELEVATION LESS THAN THE INVERT OF THE DISTRIBUTION LINE. THE ADJACENT SIDE SLOPE SHALL NOT BE STEEPER THAN 3:1 FOR A 25' MINIMUM DISTANCE FROM THE EDGE OF THE GST IN THE DISPERSAL TRENCH OR UNTIL THE TOE OF THE SLOPE RETURNS TO THE ELEVATION OF THE ORIGINAL GRADE. THE TOE OF THE 3:1 SLOPE SHALL BE A MINIMUM OF 5' FROM ANY PROPERTY LINE.
14. USE SCHD 35 PVC PIPING OR EQUIVALENT THROUGHOUT SEWAGE SYSTEM, EXCEPT AS NOTED.
15. NO WELL EXISTS WITHIN 200' OF THE PROPOSED SEWAGE SYSTEM EXCEPT AS SHOWN.
16. IF A WELL IS PROPOSED, NO SEWAGE SYSTEM EXISTS WITHIN 200' OF THE PROPOSED WELL EXCEPT AS SHOWN.
17. ALL WELLS, EXISTING AND PROPOSED, WITHIN 200' OF THE SEWAGE SYSTEM ARE SHOWN. ALL PUBLIC WELLS, EXISTING AND PROPOSED, WITHIN 500' OF THE SEWAGE SYSTEM AREA ARE SHOWN.
18. IF A DRIVEWAY OR PAVEMENT IS TO BE NEAR THE SEWAGE SYSTEM, A PROTECTIVE BERM IS TO BE PLACED AROUND THE SEWAGE SYSTEM IN THE AREA OF THE DRIVEWAY OR PAVEMENT TO PREVENT VEHICULAR TRAFFIC TRAVELING OVER THE SEWAGE SYSTEM.
19. INSTALLER TO MEET ALL O.W.T.S. SPECIFICATIONS AND REQUIREMENTS.
20. NO DRAINS OF ANY KIND SHALL BE LOCATED WITHIN 25' OF THE PROPOSED SEWAGE SYSTEM.
21. THE FINISH GRADE AT 10' FROM ALL SIDES OF LEACHING FIELD SHALL NOT BE LOWER THAN ELEVATION OF 97.2 WITH 3:1 SLOPE.
22. REMOVE ALL TREES, ROOTS, BRUSH AND BOULDERS WITHIN 10- FEET OF ALL SIDES OF THE LEACHING FIELD.
23. OWNER AND/OR BUILDER IS RESPONSIBLE FOR BUILDING AND LEACHING FIELD MEETING LOCAL ZONING SETBACK REQUIREMENTS.
24. ALL UNDERGROUND UTILITIES AND STRUCTURES ARE APPROXIMATE AND MUST BE FIELD VERIFIED BEFORE THE START OF ANY CONSTRUCTION OR EXCAVATION.
25. THE PROPOSED SILT FENCE IS TO BE INSTALLED BEFORE THE START OF ANY CONSTRUCTION AND REMAIN IN PLACE UNTIL ALL DISTURBED AREAS ARE REVEGETATED.
26. THE SILT FENCE IS TO BE INSPECTED ONCE A MONTH OR AFTER ALL STORM EVENTS AND REPAIRED AS NEEDED.

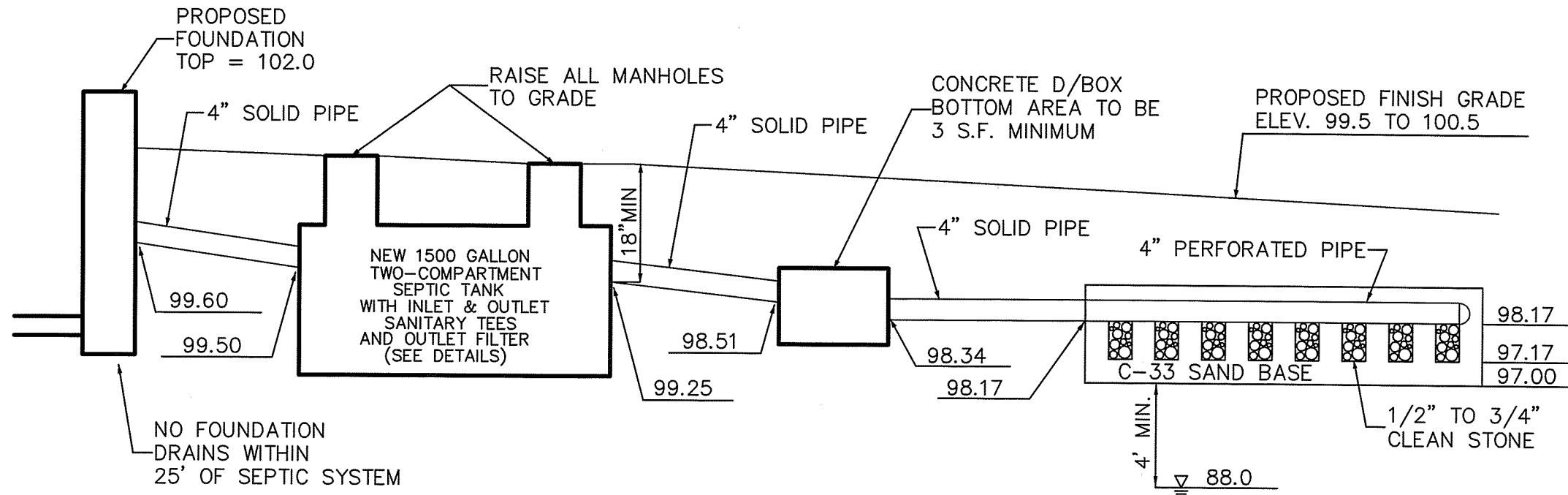
SEPTIC TANK NOTES:

1. ONE INLET AND ONE OUTLET SHALL BE PROVIDED THROUGH THE APPROPRIATE END OR SIDE WALL OF EACH TANK. WHERE MORE THAN ONE INLET IS REQUIRED FOR MULTIPLE BUILDING SEWERS, THE TANK SHALL BE MANUFACTURED WITH THE APPROPRIATE NUMBER OF INLETS.
2. THE INVERT ELEVATION OF THE OUTLET SHALL BE AT LEAST 3" BELOW THE INVERT ELEVATION OF THE INLET, AND ABOVE THE SEASONAL HIGH GROUNDWATER TABLE.
3. THE OUTLET AND INLET PIPES SHALL BE CONNECTED TO THE SEPTIC TANK WITH A WATERTIGHT SEALED FLEXIBLE JOINT. THE PIPE GASKET SHALL BE AN INTEGRAL PART OF ALL TANKS AND THE PIPE GASKET SHALL BE FASTENED TO THE PIPE WITH A STAINLESS STEEL RETRACTABLE CLAMP. A FRICTION FIT CONNECTION IS ONLY ALLOWED IF THE TANK IS PERFORMANCE TESTED.
4. SEPTIC TANKS SHALL BE PROVIDED WITH AN INLET SANITARY TEE AND OUTLET TEES OR OTHER NON-CORRODING EQUIVALENT DEVICE APPROVED BY THE DIRECTOR. THE INLET AND OUTLET TEES SHALL BE MINIMUM SDR 35 PVC SOLVENT WELDED. THE TOPS OF THE TEES SHALL EXTEND A MINIMUM OF 6" ABOVE THE FLOW LINE, AND SHALL BE LEFT OPEN TO PROVIDE VENTILATION. THERE SHALL BE AN AIR SPACE OF AT LEAST 3" BETWEEN THE TOP OF THE TEES AND TOP INTERIOR OF THE TANK.
5. THE INLET SANITARY TEE SHALL EXTEND DOWNWARD AT LEAST 12" BELOW THE FLOW LINE.
6. THE OUTLET TEE SHALL EXTEND DOWNWARD 1/3 OF THE DEPTH BELOW THE FLOW LINE. ALL OUTLET TEES OR OTHER APPROVED OUTLET DEVICES SHALL BE EQUIPPED WITH AN EFFLUENT SCREEN.
7. SPECIFICATIONS FOR INLET TEES AND OUTLET TEES ARE FOR NORMAL, LOW-FLOW CONDITIONS. HIGH-FLOW CONDITIONS, CREATED WITH LIQUID IS PUMPED FROM ANOTHER TANK, MAY REQUIRE OTHER DIMENSIONS AND CONSIDERATIONS.
8. A MINIMUM 20" INSIDE DIAMETER ACCESS OPENING SHALL BE LOCATED OVER BOTH THE INLET TEE AND OUTLET TEE. ALL SEPTIC TANK OPENINGS SHALL MEET THE FOLLOWING REQUIREMENTS.
9. THE ACCESS OPENING OVER THE OUTLET TEE SHALL BE BROUGHT TO FINISHED GRADE. OTHER ACCESS OPENINGS SHALL EITHER BE BROUGHT TO FINISHED GRADE OR WITHIN 12" OF FINISHED GRADE. WHERE A RISER IS REQUIRED, IT SHALL BE WATERTIGHT.
10. LIDS ON TOP OF THE SEPTIC TANK SHOULD REMAIN IN PLACE WHERE PRACTICAL. LIDS FOR THE OPENING AT FINISHED GRADE SHALL PREVENT UNAUTHORIZED ENTRY BY MEETING EITHER OF THE FOLLOWING: (A) LID SHALL WEIGHT A MINIMUM OF 59 POUNDS AND FIT TIGHTLY ONTO THE RISER OR (B) LID SHALL BE TAMPER RESISTANT AND MECHANICALLY FASTENED.
11. THE SEPTIC TANK MANUFACTURERS SHALL PROVIDE AND LICENSED OWTS INSTALLERS SHALL ATTACH A LABEL OF NON-CORROSIVE MATERIAL IN A PROMINENT LOCATION AT EACH ACCESS OPENING TO WARN THAT "ENTRANCE INTO THE TANK COULD BE FATAL."
12. SURFACE WATER SHALL BE DIVERTED AWAY FROM THE SEPTIC TANK OPENING.
13. ACCESSIBILITY TO SEPTIC TANKS SHALL BE LOCATED ON THE LOT AS TO BE ACCESSIBLE FOR SERVICING AND CLEANING.
14. INSTALLATION OF ALL SEPTIC TANKS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S MINIMUM REQUIREMENTS. IN ADDITION, ALL SEPTIC TANKS MUST MEET THE INSTALLATION REQUIREMENTS SPECIFIED.
15. THE SEPTIC TANK SHALL BE INSTALLED ON A LEVEL, STABLE BASE THAT WILL NOT SETTLE.
16. BACK FILL SHALL BE PLACED AROUND THE SEPTIC TANK IN SUCH A MANNER AS TO AVOID DAMAGE TO IT. ALL BACK FILL PLACED AROUND THE SEPTIC TANK SHALL BE FREE OF LARGE STONES, STUMPS, WASTE, CONSTRUCTION MATERIAL AND RUBBISH.
17. WHERE ANY PORTION OF A SEPTIC TANK IS INSTALLED BELOW THE SEASONAL HIGH GROUNDWATER TABLE, THE TANK'S SUSCEPTIBILITY TO FLOATATION SHALL BE DETERMINED, AND PROVISIONS SHALL BE MADE TO PREVENT FLOATATION, WHERE NECESSARY AS DETERMINED BY THE FLOATATION CALCULATIONS.
18. WHENEVER MORE THAN 25% OF THE DAILY DESIGN FLOW IS PUMPED INTO A SEPTIC TANK, THE TANK CAPACITY SHALL BE INCREASED BY 50% BEYOND THE MINIMUM CAPACITIES.
19. THE MINIMUM COVER OVER THE INVERT OF THE OUTLET SHALL BE 18". IF THE DEPTH OF COVER EXCEEDS 42", THE OWTS APPLICATION SHALL INCLUDE DOCUMENTATION OF THE TANK'S ABILITY TO STRUCTURALLY WITHSTAND THE LOADING, AND THE TANK'S DESIGN SHALL ALLOW FOR PROPER MAINTENANCE AND ACCESS.
20. THE SEPTIC TANK SHALL BE A MINIMUM OF 75' FROM ALL WELLS.
21. THE SEPTIC TANK CAPACITY IS TO BE INCREASED BY 250 GALLONS IF A GARBAGE GRINDER OR 100 GALLON TUB IS INSTALLED IN THE DWELLING.

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PROPOSED O.W.T.S. PLAN FOR
ROBERT STANTON
 PLAT 25, LOT 167
 705 NATE WHIPPLE HIGHWAY
 CUMBERLAND, RHODE ISLAND

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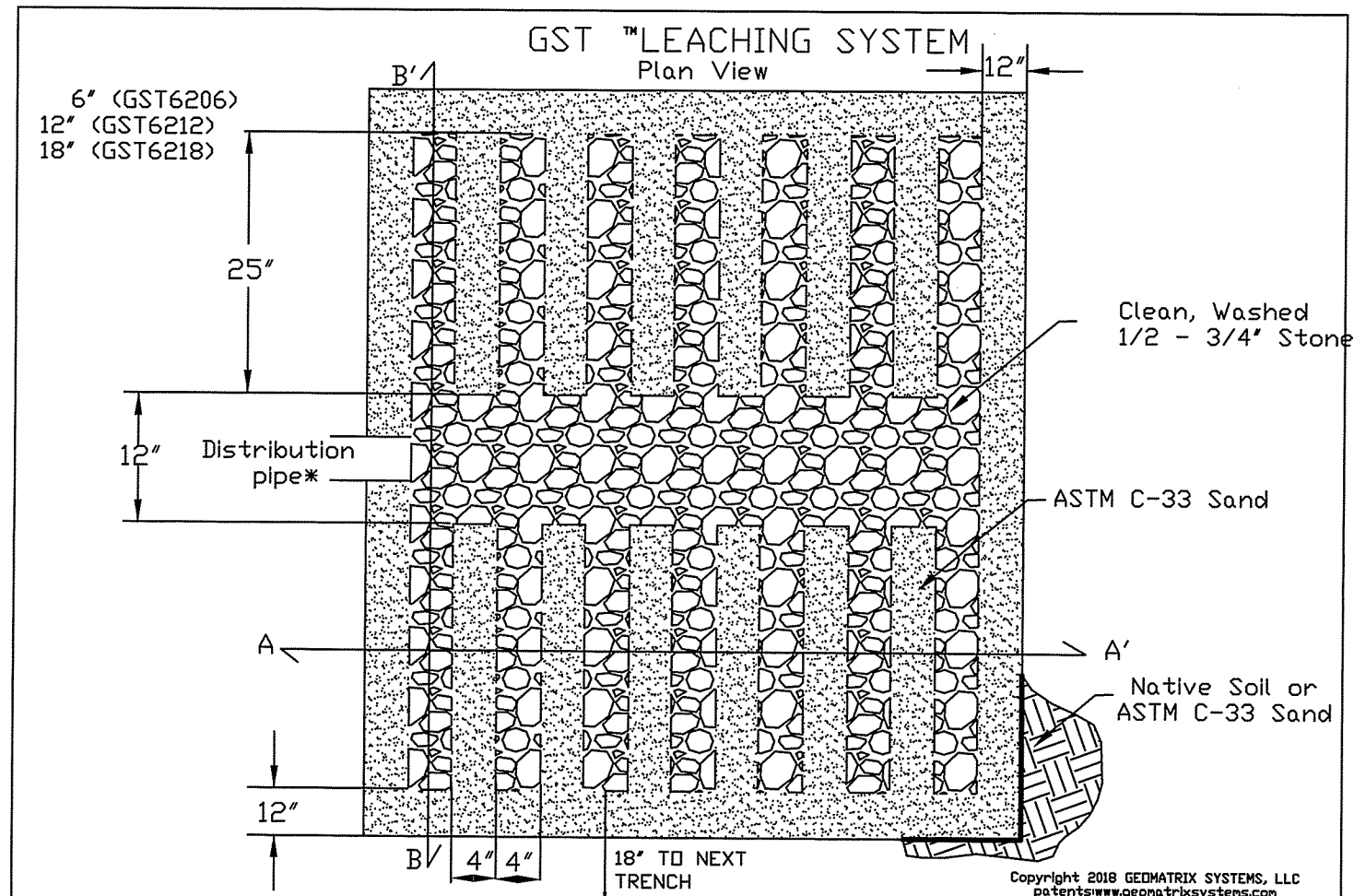
TYPICAL PROFILE THRU SYSTEM
NOT TO SCALE

SOIL EVALUATION TEST HOLE ELEVATIONS:

GROUND AT TH#1.....	98.5
WATER TABLE AT TH#1.....	90.3
GROUND AT TH#2.....	100.0
WATER TABLE AT TH#2.....	88.0
GROUND AT TH#3.....	100.5
WATER TABLE AT TH#3.....	92.5
GROUND AT TH#4.....	99.5
WATER TABLE AT TH#4.....	93.5
GROUND AT TH#5.....	100.6
WATER TABLE AT TH#5.....	94.8

TABLE OF O.W.T.S. ELEVATIONS:

INVERT OUT DWELLING.....	99.60
SEPTIC TANK ELEVATIONS:	
INVERT IN SEPTIC TANK.....	99.50
INVERT OUT SEPTIC TANK.....	99.25
TOP OF SEPTIC TANK RISER.....	101.83
GST6212 LEACH FIELD ELEVATIONS:	
BOTTOM OF C-33 SAND.....	97.00
BOTTOM OF CRUSHED STONE.....	97.17
INVERT IN GST TRENCH.....	98.17
FINISHED GRADE.....	99.5-100.5
10' AWAY BREAKOUT ELEVATION.....	98.2

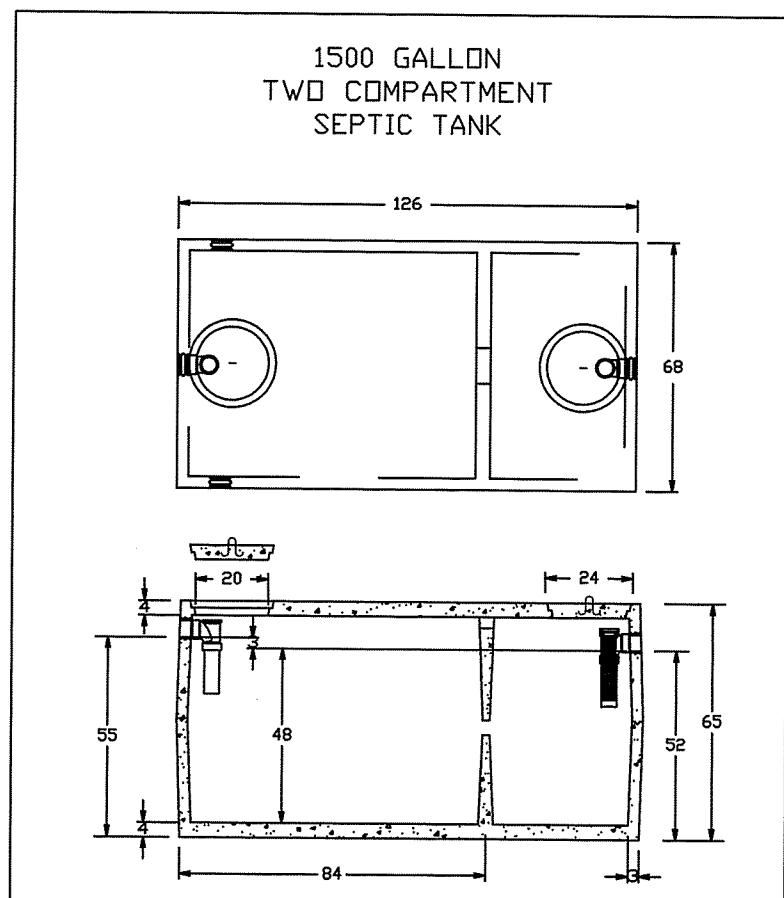


* Distribution pipe for gravity systems shall comply with RIDEM DWTS Rule 6.34C Distribution pipe for pressure applications shall comply with RIDEM Guidelines for the Design, Use and Maintenance of Pressurized Drainfields.

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GST LEACHING SYSTEM
Plan View
Geomatrix Systems, LLC, Dtd
Saybrook, CT 860-510-0730

Scale	None	REV. C-10/29/18
Date	9/4/2018	ACAD No. Geo st ls Plan View.DWG
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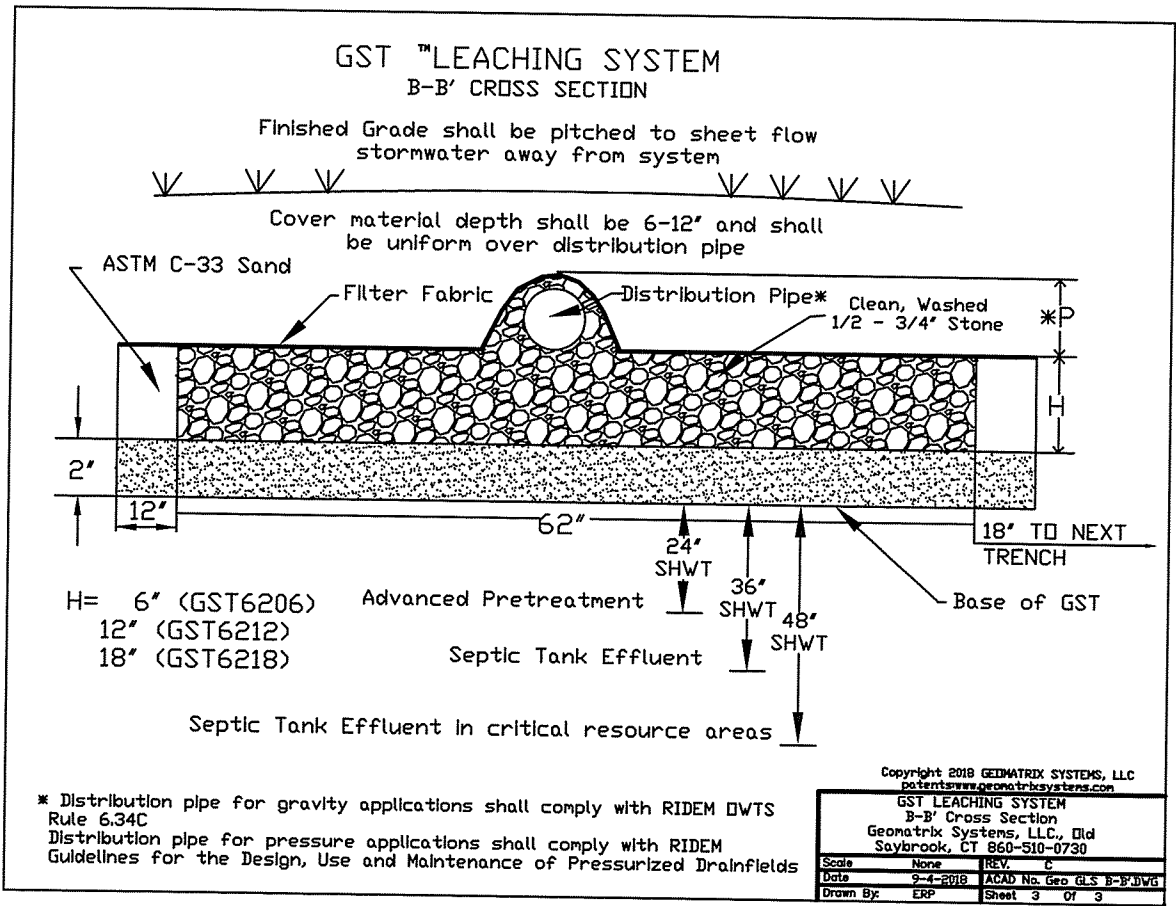
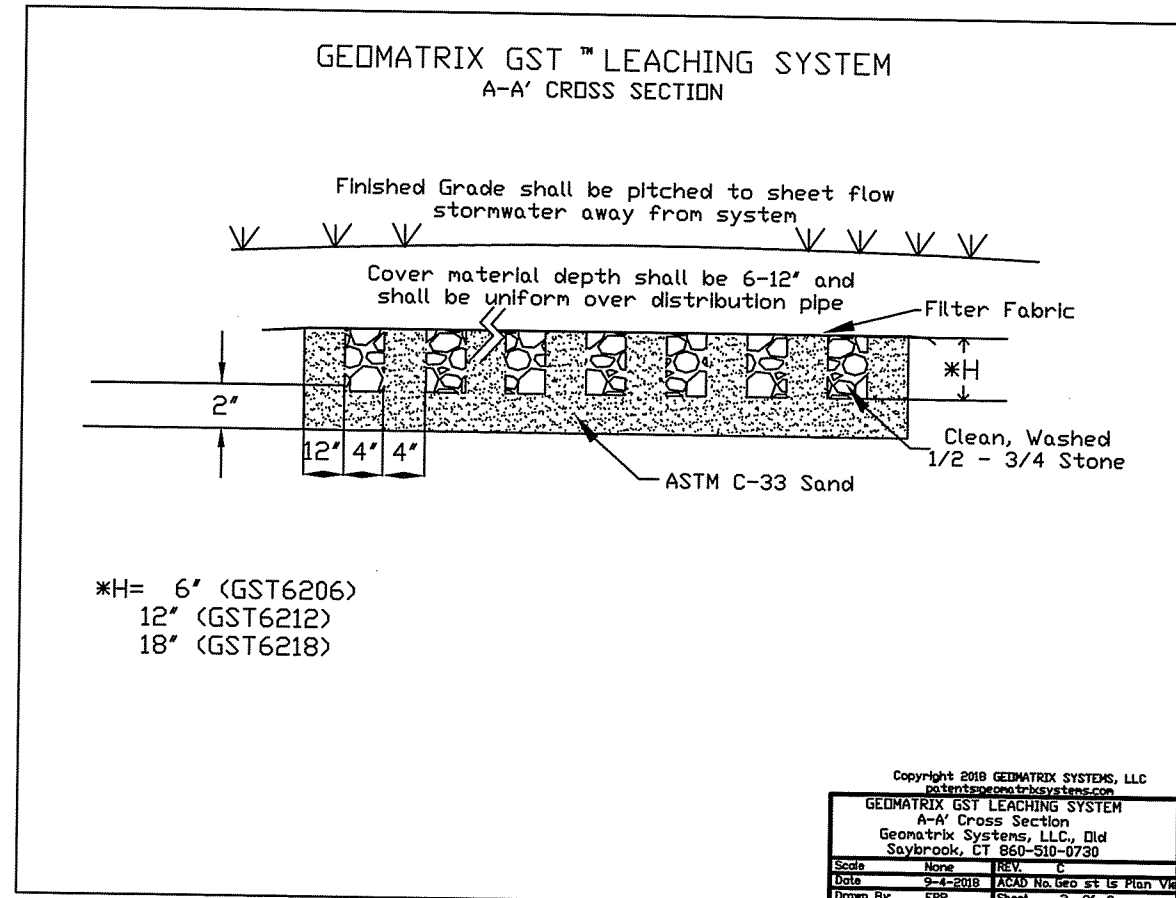
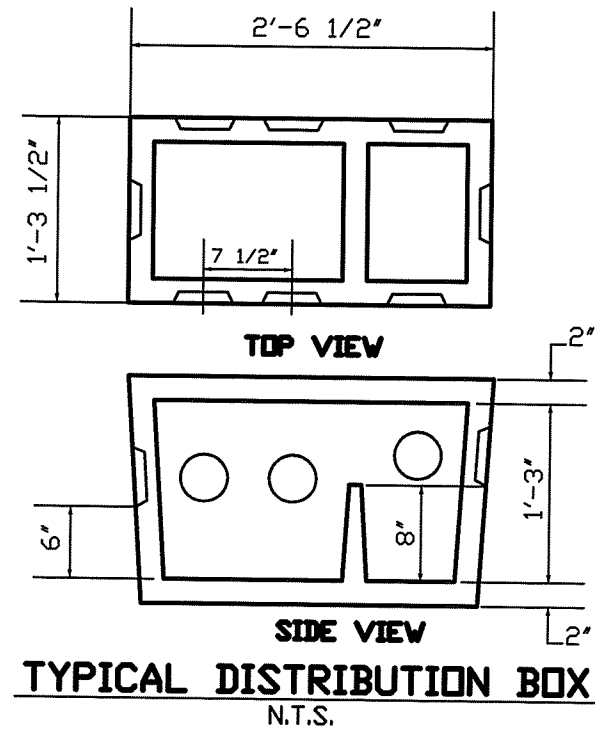
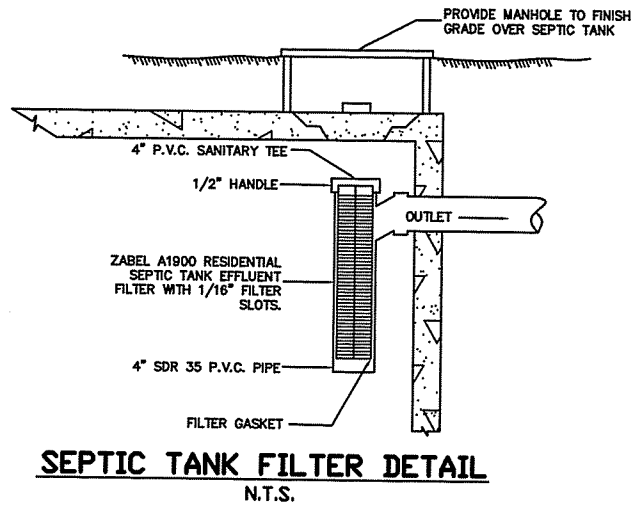
- DESIGN NOTES
- 1) ALL JOINTS SEALED WITH BUTYL RUBBER SEALANT.
 - 2) ALL INLETS AND OUTLETS HAVE STATE-APPROVED SEALS.
 - 3) AVAILABLE OUTLET FILTER SHOWN
 - 4) MEETS ASTM C 1227-97A
 - 5) CONCRETE STRENGTH 5000 PSL MIN. 28 DAYS

JOLLEY PRECAST, INC.
860-774-9066

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705 NATE WHIPPLE HIGHWAY
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SEDIMENTATION AND EROSION CONTROL:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY SEDIMENTATION & EROSION CONTROL.
2. EMBANKMENT SLOPES & ALL DISTURBED AREAS ARE TO RECEIVE A LAYER OF TOPSOIL (LOAM) AND SEED.
3. IMMEDIATELY UPON COMPLETION OF THE CLEARING AND GRUBBING AND PRIOR TO ANY ROUGH GRADING, A TEMPORARY SILT FENCE OR HAY BALES SHALL BE PLACED AT THE LIMIT OF PERMANENT DISTURBANCE PER PLAN.
4. ALL EROSION & SEDIMENTATION CONTROL SHALL BE PERIODICALLY MAINTAINED DURING BUILDING CONSTRUCTION BY THE CONTRACTOR.

EROSION & SOIL STABILIZATION PROGRAM:

1. TEMPORARY TREATMENTS SHALL CONSIST OF A SILT FENCE, HAY BALES OR PROTECTIVE COVERS SUCH AS FABRIC MATS.
2. THE SILT FENCE OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED COVER IS ESTABLISHED.
3. NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE APRIL 1 - OCT. 15.
4. ALL FILL, IF REQUIRED, SHALL BE CLEAN AND THOROUGHLY COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH RIDPW STANDARD SPECIFICATION SECTION 202.

SEDIMENTATION CONTROL PROGRAM:

1. A TEMPORARY SILT FENCE, HAY BALES OR PROTECTIVE COVER SHALL BE INSTALLED PRIOR TO CONSTRUCTION & SHALL BE MAINTAINED ON A DAILY BASIS. IN ADDITION TO THE LINE OF THE SILT FENCE AT THE LIMIT OF PERMANENT DISTURBANCE, TEMPORARY BARRIERS SHALL BE CONSTRUCTED AT THE TOE OF THE DISTURBED (CUT OR FILL) SLOPES UNTIL VEGETATIVE COVER HAS BEEN ESTABLISHED.
2. ALL HAY BALES USED WITH THE SILT FENCE ARE TO HAVE TWO STAKES DRIVEN INTO EACH HAY BALE.
3. THE SILT FENCE AND HAY BALES ARE TO BE INSPECTED DAILY AND REPLACED AS NEEDED.
4. ALL SEDIMENTATION AND EROSION CONTROLS MUST BE INSTALLED AND PASS THE TOWN'S INSPECTION PRIOR TO ANY CONSTRUCTION WORK.
5. DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE FLOW DURING STORMS AND PERIODS OF RAINFALL.
6. SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED CLOSELY AND MAINTAINED PROMPTLY AFTER EACH RAINFALL.

SLOPE STABILIZATION AND VEGETATION:

1. THE SILT FENCE OR HAY BALES SHALL BE PLACED AT THE TOE OF ALL DISTURBED SLOPES. THIS SHALL BE MAINTAINED AS A SEDIMENT BARRIER UNTIL THE SLOPES ARE STABILIZED WITH GRASS.
2. THE DISTURBED SLOPES (CUT OR FILL) SHALL BE IMMEDIATELY MULCHED AS AN EROSION PROTECTION MEASURE.
3. MAINTAIN MULCH UNTIL THE SLOPES ARE STABILIZED WITH A SATISFACTORY GROWTH OF GRASS.
4. VEGETATION REMOVED MAY BE SHREDDED AND CHIPPED ON SITE FOR USE AS MULCH, OR IT MAY BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER.
5. THE RESEEDING OF THE DISTURBED SLOPES SHALL BE CONDUCTED WITH SEED MATERIALS SELECTED FOR PRODUCTION OF A QUICK COVER AND HARDY STAND. PARTICULARLY A CONSERVATION GRASS SEED OR COMPARABLE. THE SEEDING SHALL BE IN ACCORDANCE WITH COMMON NURSERY PRACTICE IN THE RHODE ISLAND AREA.
6. PROVIDED THAT THE PROVISIONS OF THE SEDIMENTATION & EROSION CONTROL PLAN ARE IMPLEMENTED, THERE WILL BE NO ADVERSE ENVIRONMENTAL EFFECTS FROM THE PROPOSED CONSTRUCTION.

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PROPOSED O.W.T.S. PLAN FOR
ROBERT STANTON
 PLAT 25, LOT 167
 705 NATE WHIPPLE HIGHWAY
 CUMBERLAND, RHODE ISLAND

SCALE:	AS NOTED
DATE:	3-7-2024
SHEET:	5 OF 6
PROJECT:	2019_021

INFILTRATION TRENCH NOTES:

1. PRIOR TO CONSTRUCTION, A SOIL EVALUATION SHALL BE PERFORMED AT THE LOCATION OF THE PROPOSED INFILTRATION TRENCH TO VERIFY A MINIMUM OF 2- FEET OF SEPARATION BETWEEN THE BOTTOM OF THE SYSTEM AND THE ESTIMATED SEASONAL HIGH GROUNDWATER TABLE.
2. THE CONTRACTOR AND/OR OWNER IS RESPONSIBLE FOR CONTACTING THE DESIGNER IF THERE IS A CHANGE TO THE ESTIMATED SEASONAL HIGH GROUNDWATER TABLE AS A RESULT OF THE SOIL EVALUATION.
3. THE INFILTRATION TRENCH MAY NEED TO BE MODIFIED TO MEET THE MINIMUM RI DEM WATER QUALITY STANDARDS.
4. THE INFILTRATION TRENCH PROVIDES WATER QUALITY ONLY AND ARE NOT DESIGNED TO MITIGATE THE 1-100 YEAR STORM EVENTS. EACH DOWN SPOUT SHALL HAVE A SURCHARGE PIPE (OVERFLOW WYE) AND SPLASH BLOCK DIRECTING ROOF RUNOFF AWAY FROM THE DWELLING AND TOWARDS THE ROADWAY DRAINAGE NETWORK.
5. THE PROPOSED INFILTRATION TRENCH IS TO BE A MINIMUM OF 15- FEET OFF ALL PROPOSED O.W.T.S. COMPONENTS AND A MINIMUM OF 50- FEET OFF ALL PROPOSED PRIVATE WELLS.

INFILTRATION TRENCH "A" CALCULATIONS:

- * INFILTRATION AREA FOR THE SOUTHERLY PORTION OF THE PROPOSED DWELLING
- * TOTAL IMPERVIOUS AREA = 1,184 S.F.
- * INFILTRATION TRENCH CALCULATION PER RHODE ISLAND STORMWATER MANAGEMENT GUIDANCE DOCUMENT FOR INDIVIDUAL SINGLE-FAMILY RESIDENTIAL LOT DEVELOPMENT - TABLES 10 AND 11: SIZING GUIDANCE FOR INFILTRATION TRENCHES
- TOTAL DEPTH = 48 INCHES
- SOIL TYPE: SANDY SOILS = 0.054 SIZING FACTOR
- 1,184 S.F. AREA x 0.054 = 64 S.F. NEEDED
- * BOTTOM AREA OF PROPOSED INFILTRATION AREA = 77 S.F.

INFILTRATION TRENCH "B" CALCULATIONS:

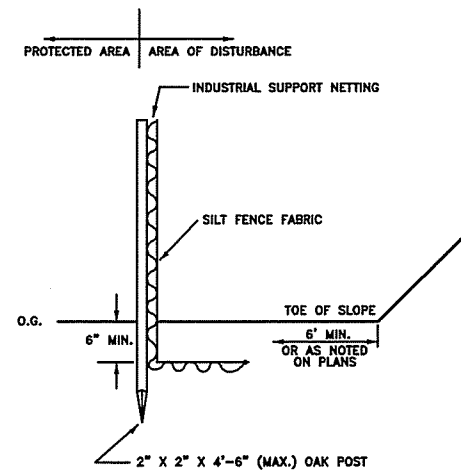
- * INFILTRATION AREA FOR THE NORTHERLY PORTION OF THE PROPOSED DWELLING AND GARAGE
- * TOTAL IMPERVIOUS AREA = 1,416 S.F.
- * INFILTRATION TRENCH CALCULATION PER RHODE ISLAND STORMWATER MANAGEMENT GUIDANCE DOCUMENT FOR INDIVIDUAL SINGLE-FAMILY RESIDENTIAL LOT DEVELOPMENT - TABLES 10 AND 11: SIZING GUIDANCE FOR INFILTRATION TRENCHES
- TOTAL DEPTH = 48 INCHES
- SOIL TYPE: SANDY SOILS = 0.054 SIZING FACTOR
- 1,416 S.F. AREA x 0.054 = 77 S.F. NEEDED
- * BOTTOM AREA OF PROPOSED INFILTRATION AREA = 77 S.F.

MAINTENANCE PLAN FOR THE STORMWATER MEASURES:

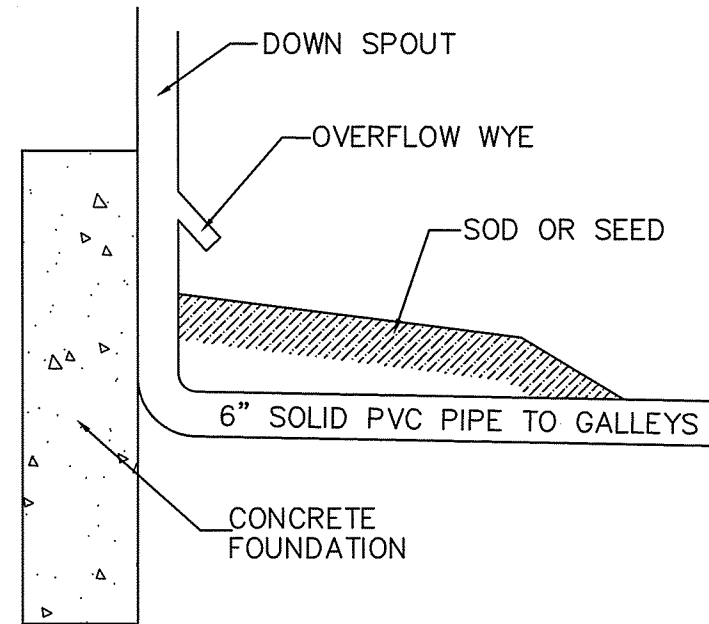
1. THE OWNER IS RESPONSIBLE TO INSURE THAT THE ON-SITE STORMWATER MEASURES ARE MAINTAINED PROPERLY AND FUNCTIONING AS DESIGNED.
2. THE ON-SITE STORMWATER MEASURES ARE TO BE INSPECTED ON AN ANNUAL BASIS OR AFTER ALL LARGE STORM EVENTS AND REPAIRED AS NEEDED.
3. THE INSPECTION OF THE STORMWATER MEASURES WILL INCLUDE:
 - * BUILDING GUTTERS AND DOWN SPOUTS
 - * THE INFILTRATION TRENCH (THROUGH THE OBSERVATION WELL) AND MEASUREMENT OF SILTATION AT THE BOTTOM OF THE TRENCH.
 - * ANY OTHER ITEMS THAT DO NOT ALLOW THE STORMWATER SYSTEMS TO OPERATE PROPERLY.
4. THE STORMWATER MEASURES ARE TO BE REPAIRED IF THE FOLLOWING IS ENCOUNTERED DURING THE INSPECTION PROCESS:
 - * CLOGGED GUTTERS AND/OR DOWN SPOUTS ARE TO BE CLEANED.
 - * A LAYER OF SEDIMENT GREATER THAN 3-INCHES THICK IN THE BOTTOM OF THE INFILTRATION TRENCH IS TO BE VACUUMED OUT AND/OR DUG UP AND REPLACED.
 - * ALL OTHER ISSUES THAT WILL NOT ALLOW THE STORMWATER SYSTEMS TO OPERATE PROPERLY ARE TO BE REPAIRED AS NEEDED.

WATER NOTES:

1. THE BEDDING FOR THE PROPOSED WATER SERVICE SHALL BE SAND, 8" AROUND THE SERVICE. IN AREAS OF LEDGE, THE SAND WILL BE 12" AROUND THE SERVICE.
2. THE PROPOSED WATER SERVICE IS TO BE 1" TYPE K COPPER TUBING.

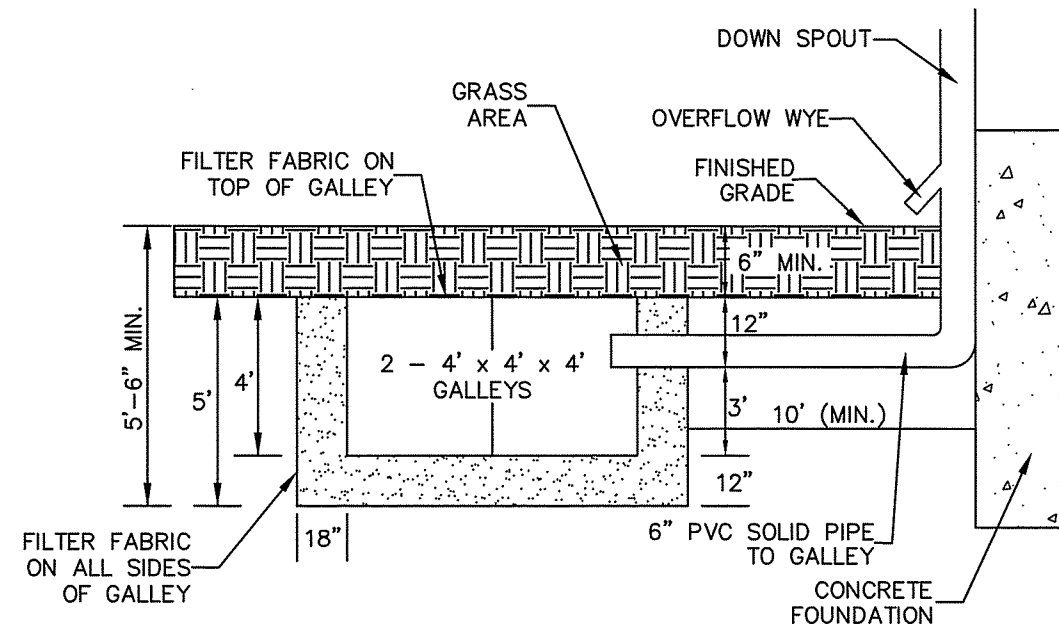


SILT FENCE DETAIL
NOT TO SCALE



OVERFLOW WYE DETAIL

NOT TO SCALE



TYPICAL GALLEY DETAIL

NOT TO SCALE

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