

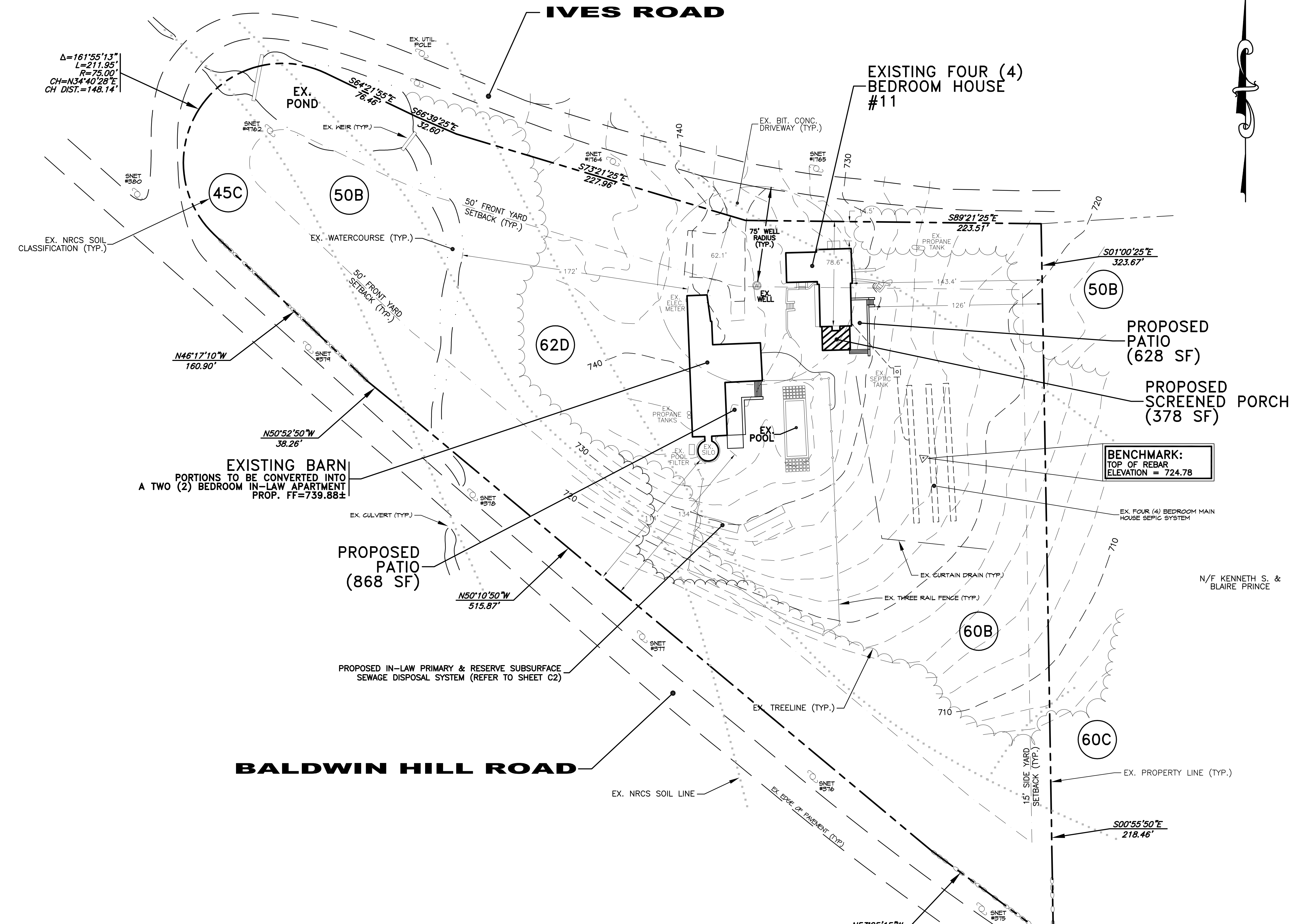
**NOTES:**

- This map has been prepared pursuant to the Regulations of Connecticut State Agencies Sections 20-300b-1 through 20-300b-20 and the "Standards for Surveys and Maps in the State of Connecticut" as adopted by the Connecticut Association of Land Surveyors, Inc. on September 26, 1996.
    - Type of Survey: **Property and Topographic**
    - Boundary Determination Category: **Resurvey**
    - Class of Accuracy: **A-2, T-2**
  - The intent of this map is to depict property lines, topography and existing improvements within the area of #11 Ives Road for the design of future improvements.
  - Zone: (R-1) Residence District.
  - Total Area of Parcel = 206,278 square feet or 4.735 acres.
  - Owner of Parcel: Kenneth S. & Blaire Prince.
  - Town of Washington Assessor's Map #09-10, Lot #10.
  - Filed in Volume 253, Page 211 of the Town of Washington clerk's office.
  - Survey was conducted in the field on June 23, 2022 by David A. Hughes, P.E., L.S.
  - Horizontal datum is based on the North American Datum of 1983. Datum obtained on November 19, 2021 with static GPS observations on the Connecticut Network (ACORN), utilizing a Carlson BRx6 receiver.
  - Vertical datum is based on the National Geodetic Vertical Datum of 1988. Datum obtained on November 19, 2021 with static GPS observations on the Connecticut Network (ACORN), utilizing a Carlson BRx6 receiver.
- This parcel is subject to the following easements and rights of record:
- Riparian rights of others in and to a pond or any other type of watercourse located on or crossing through the subject parcel.
  - Provisions set forth in Volume 35, Page 430 of the Washington Land Records.
  - All facts including, but not limited to, Snet Pole and Legend as shown on Map Reference #22A, to which reference may be made.
  - Calhoun-Ives Street Historic District Ordinance, recorded February 19, 1991, in Volume 116, Page 588 of the Washington Land Records.
  - Variance approved by WZBA recorded in Volume 156, Page 355 of the Washington Land Records.
  - Variance approved by WZBA recorded in Volume 168, Page 958 of the Washington Land Records.
  - Special Exception approved by WZBA recorded in Volume 195, Page 568 of the Washington Land Records.
  - Special Exception approved by WZBA recorded in Volume 206, Page 748 of the Washington Land Records.
- Contour interval is two (2) feet.
  - This survey does not include the location of any underground improvements or encroachments, subsurface utility lines or buried debris, other than the piping depicted as being "As-built". This survey does not include the location of any underground improvements or encroachments, subsurface utility lines or buried debris. Nor does it necessarily reflect the existence of any waste dumps or hazardous materials. The subsurface utility locations depicted on this survey have been interpreted from visible evidence or painted markings. However, the indicated existing utilities are based on limited information and all utilities may not be shown. The underground items depicted or noted are approximate and not guaranteed. Notify "CALL BEFORE YOU DIG" 1-800-922-4455 prior to any excavation operations.
  - This property is subject to any and all local, state and federal ordinances, statutes, rules and/or regulations, restrictions, public or private law or easement(s); or claims of adverse possession which may affect the premises.

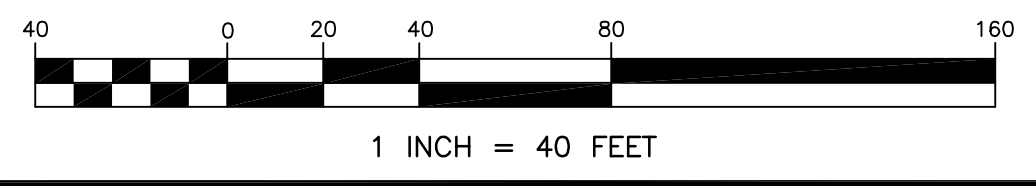
- Map References:
  - Map #874 filed in the Washington town clerk's office.
  - Map #1779 filed in the Washington town clerk's office.

ZONING DATA			
ZONING DISTRICT: RESIDENCE (R-1)			
	REQUIRED	EXISTING	PROPOSED
MINIMUM LOT AREA	3 ACRES	6.40 ACRES	6.40 ACRES
MINIMUM LOT FRONTAGE	250'	312.35'	312.35'
MINIMUM LOT WIDTH	225'	>250'	>250'
MINIMUM FRONT YARD BUILDING SETBACK	50'	493.0'	575.0'
MINIMUM SIDE YARD BUILDING SETBACK	15'	143.4'	126.0'
MINIMUM REAR YARD BUILDING SETBACK	N/A	N/A	N/A
MAXIMUM MEAN BUILDING HEIGHT			
MAIN HOUSE	35'	25'	25'
BARN	35'	28'	28'
MINIMUM GROUND FLOOR AREA	600 SF	1,989 SF	2,348 SF

SOIL TYPE & DENSITY CHART SIGHT DISTANCES		
SOIL TYPE	AREA (IN ACRES)	MAX. DENSITY (UNITS/ACRE)
CLASS A	2.32	1.16
CLASS B	-	-
CLASS C	1.67	0.55
CLASS D	0.74	0.18
TOTAL UNITS ALLOWED =		1.89



GENERAL LEGEND			
Ex. 10' Contours	---000---	Gas Main	—G—G—
Ex. 2' Contours	---000---	Force Main	—FM—FM—
Ex. Spot Elevation	x000.0	Underground Electric	—UGE—UGE—
Ex. Edge of Pavement	====	Underground Telecom	—TEL—TEL—
Ex. Bit. Curbing	=====	Unknown Underground Utility	—U—U—
Ex. Concrete Curbing	=====	Underground Traffic Control	—T—T—
Ex. Granite Curbing	=====	Wire Fence	x—x—x—x—
Ex. Well	⊙	Chain Link Fence	o—o—o—o—
Ex. Water Valve	⊕	Stockade Fence	□—□—□—□—
Ex. Fire Hydrant	⊕	Stone wall	— — — — —
Ex. Gas Valve	⊕	Treeline	~~~~~
Ex. Traffic Sign	⊕	Deciduous Tree	⊕
Ex. Monitoring Well	⊕	Coniferous Tree	⊕
		Ex. 'C' Catch Basin	⊕
		Ex. 'C-L' Catch Basin	⊕
		Ex. Drainage Manhole	⊕
		Ex. Drainage Pipe	— — — — —
		Ex. Sanitary Manhole	⊕
		Ex. Sanitary Pipe	— — — — —
		Ex. Utility Box	⊕
		Ex. Utility Pole	⊕
		Ex. Parking Lot Light	⊕
		Ex. Soil Boring	⊕
		Overhead Electric	—OHE—OHE—
		Water Main	—W—W—



DAVID A. HUGHES, P.E., L.S. REG. NO. #70111  
 NOT VALID UNLESS EMBOSSED SEAL IS AFFIXED HERETO

**IMPROVEMENT LOCATION SURVEY - PROPOSED**  
**#11 IVES ROAD WASHINGTON, CT**  
**PREPARED FOR MR. & MRS. KENNETH S. PRINCE**

REVISIONS
1
2
3
4
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DRAWN BY: DAH  
 DATE: 06/30/22  
 SCALE: 1" = 40'  
 APPROVED BY: DAH

**DAVID A. HUGHES**  
**PROFESSIONAL ENGINEER & LAND SURVEYOR**  
 57 NORWAY STREET  
 OAKVILLE, CT 06479  
 (860) 681-7483

PROJECT NO. 0346  
 DWG. NO. 01

**SEWAGE DISPOSAL SYSTEM DESIGN:**

1. THE DISPOSAL SYSTEM WILL BE DESIGNED FOR A TWO (2) BEDROOM IN-LAW APARTMENT.
2. THE SEPTIC TANK SIZE REQUIRED BY THE STATE OF CONNECTICUT HEALTH CODE IS 1,000 GALLON.
3. THE PROPOSED SEPTIC TANK SIZE IS 1,250 GALLON.
4. CONTROLLING RESTRICTIVE LAYER IS MOTTLING AT 19" BELOW THE NATURALLY OCCURRING GRADE, OBSERVED IN TEST LOCATION 'A'.
5. THE PRIMARY SYSTEM PERCOLATION RATE IS 1" IN 10.1-20.0 MINUTES, OBSERVED AT PERCOLATION TEST LOCATION '1'.
6. THE PRIMARY EFFECTIVE LEACHING AREA (ELA) REQUIRED BY THE STATE OF CONNECTICUT HEALTH CODE IS = 375 SF.
7. PRIMARY TRENCH LEACHING CHAMBER PROPOSED = STANDARD CAPACITY QUICK4, INSTALLED SIDE BY SIDE WITH END CAPS & BACKFILLED WITH WASHED STONE.
8. APPLICATION RATE FOR PRIMARY LEACHING CHAMBER = 5.9 SF/LF.
9. PRIMARY LEACHING AREA PROVIDED = 64LF OF TRENCH @ 5.9 SF/LF x ONE (1) TRENCH = 377.60 SF.
10. PRIMARY MINIMUM LEACHING SPREAD (MLSS) REQUIRED = (HF) x (FF) x (PF); HF = 28 (RECEIVING SOIL DEPTH = (A + B)/2) (A=MOTTLING @ 18" ('A'); B=MOTTLING @ 18" ('D')), THEREFORE; 18 + 18/2 = 18" AT HYDRAULIC GRADIENT OF 10.30%; FF = FOR A TWO BEDROOM = 1.0; PF = 1.0 (FOR A PERC RATE OF 1.0-10.0 M/L); THEREFORE MLSS IS (28) x (1.0) x (1.0) = 28.0 LF.
11. PRIMARY MINIMUM LEACHING SPREAD PROVIDED = 64 LF.
12. THE RESERVE SYSTEM PERCOLATION RATE IS 1" IN 10.1-20.0 MINUTES, OBSERVED AT PERCOLATION TEST LOCATION '1'.
13. THE RESERVE EFFECTIVE LEACHING AREA (ELA) REQUIRED BY THE STATE OF CONNECTICUT HEALTH CODE IS = 375 SF.
14. RESERVE TRENCH LEACHING CHAMBER PROPOSED = STANDARD CAPACITY QUICK4, INSTALLED SIDE BY SIDE WITH END CAPS & BACKFILLED WITH WASHED STONE.
15. APPLICATION RATE FOR RESERVE LEACHING CHAMBER = 5.9 SF/LF.
16. RESERVE LEACHING AREA PROVIDED = 64LF OF TRENCH @ 5.9 SF/LF x ONE (1) TRENCH = 377.60 SF.
17. RESERVE MINIMUM LEACHING SPREAD (MLSS) REQUIRED = (HF) x (FF) x (PF); HF = 28 (RECEIVING SOIL DEPTH = (A + B)/2) (A=MOTTLING @ 18" ('A'); B=MOTTLING @ 18" ('D')), THEREFORE; 18 + 18/2 = 18" AT HYDRAULIC GRADIENT OF 10.30%; FF = FOR A TWO BEDROOM = 1.0; PF = 1.0 (FOR A PERC RATE OF 1.0-10.0 M/L); THEREFORE MLSS IS (28) x (1.0) x (1.0) = 28.0 LF.
18. RESERVE MINIMUM LEACHING SPREAD PROVIDED = 64 LF.
19. THE PARCEL IS CURRENTLY SERVED BY A PRIVATE WELL.
20. THIS SYSTEM IS DESIGNED FOR A SINGLE BATH TUB WITH A CAPACITY LESS THAN ONE HUNDRED (100) GALLONS. THIS SYSTEM IS NOT DESIGNED FOR A BATH TUB GREATER THAN ONE HUNDRED (100) GALLONS, IF ONE IS TO BE INSTALLED THE OWNER IS REQUIRED TO CONTACT THE DESIGN ENGINEER FOR REQUIRED INCREASE TO THE SEPTIC TANK AND/OR LEACHING AREAS. ALL CHANGES MUST BE APPROVED BY THE DESIGN ENGINEER AND LOCAL HEALTH DEPARTMENT OFFICIALS.
21. ANY PROPOSED OIL TANK MUST BE LOCATED IN BASEMENT OF THE PROPOSED HOUSE.

**GENERAL SEPTIC NOTES AND SPECIFICATIONS:**

1. ALL CONSTRUCTION OF THE SEWAGE DISPOSAL SYSTEM IS TO BE DONE IN ACCORDANCE WITH THE STANDARDS OF THE TORRINGTON AREA HEALTH DISTRICT.
2. BEFORE ANY CONSTRUCTION BEGINS ON SITE, THE DISPOSAL AREA MUST BE MARKED OFF AND ISOLATED SO AS TO EFFECTIVELY PROTECT THE AREA AGAINST DAMAGE BY EROSION, STORAGE OF EARTH AND MATERIALS, OR COMPACTION BY MACHINES OR EQUIPMENT. DAMAGE TO ANY PORTION OF THE SYSTEM, DUE TO ANY CAUSE, SHALL BE REPAIRED.
3. PROPOSED HOUSE AND SEPTIC SYSTEM ARE TO BE STAKED OUT BY A REGISTERED LAND SURVEYOR. SURVEYOR MUST SET STABLE BENCHMARK IN DISPOSAL AREA FOR USE BY CONTRACTOR.
4. ALL PIPING FROM THE FOUNDATION WALL TO THE SEPTIC TANK SHALL BE FOUR INCH (4") DIAMETER. MATERIALS MAY BE CENTRICALLY CAST IRON (HUBLESS OR BELL AND SPIGOT) ASTM A-74, DUCTILE IRON ANSI A-21.51, PVC SCHEDULE 40 ASTM D1785 PRESSURE WATER PIPE, PVC ASTM D2665, OR APPROVED EQUAL AND LAID AT A MINIMUM GRADE OF ONE-QUARTER INCH (1/4") PER FOOT.
5. FOR THE SEPTIC TANK USE AN "UCS 1250 SEPTIC TANK", WITH H-20 LOADING AS MANUFACTURED BY UNITED CONCRETE, YALESVILLE, CT, OR APPROVED EQUAL. THE TANK SHALL BE EQUIPPED WITH MANHOLE COVERS WHICH HAVE BEEN PLACARDED WITH NOTIFICATION OF ITS TWO COMPARTMENT CONSTRUCTION AND THE DANGER OF ENTERING THE TANK DUE TO NOXIOUS GASES. THE TANK SHALL ALSO BE EQUIPPED WITH INLET AND OUTLET Baffles AND AN OUTLET NON-BYPASS EFFLUENT FILTER.
6. SEPTIC TANK SHALL BE INSTALLED SUCH THAT THE ACCESS COVERS ARE ACCESSIBLE WITHIN SIX INCHES (6") +/- OF THE FINISHED GRADE. IF THE DESIGN WARRANTS ACCESS MANHOLES BE CONSTRUCTED DUE TO THE DEPTH OF THE TANK, THEY SHALL BE PLACED OVER BOTH INLET AND OUTLET AND EXTEND TO WITHIN SIX INCHES (6") OF FINISHED GRADE.
7. ALL PIPING BETWEEN SEPTIC TANK AND LEACHING FIELDS TO BE TIGHT JOINTED FOUR INCH (4") DIAMETER PVC ASTM D3034, SDR35 AND SHALL BE PLACED ON A COMPACTED SURFACE.
8. ALL "TIGHT" PIPING FOR DISTRIBUTION WITHIN TWENTY FIVE FEET (25') OF AN OPEN WATERCOURSE, SURFACE OR GROUNDWATER DRAIN OR A SUBSURFACE SEWAGE DISPOSAL SYSTEM SHALL BE SCHEDULE 40 OR 80, PVC ASTM D1785 OR ASTM D2665, OR APPROVED EQUAL.
9. ALL STRUCTURES SHALL BE INSTALLED ON A SIX INCH (6") MINIMUM GRAVEL FOUNDATION. ALL PIPES SHALL BE INSTALLED ON A FOUR INCH (4") MINIMUM GRAVEL FOUNDATION AND THE BEDDING SHALL EXTEND TO THE TOP OF THE PIPE.
10. THE SEPTIC SYSTEM HAS BEEN DESIGNED AND APPROVED AS DEPICTED. IF ANOTHER TYPE OF LEACHING SYSTEM IS PROPOSED, THE REVISION MUST BE APPROVED BY THE DESIGN ENGINEER AND LOCAL HEALTH DEPARTMENT, PRIOR TO ANY FURTHER CONSTRUCTION.
11. ALL TRENCH AREAS MUST BE BACKFILLED, CAREFULLY LOADED, GRADED, AND SEEDED IMMEDIATELY FOLLOWING CONSTRUCTION. BACKFILL SHALL BE CLEAN EARTH ONLY AND SHALL NOT BE TAMPED, ROLLED OR PUDDLED OTHER THAN WITH THE USE OF A HAND ROLLER FOR TURF GROWTH.
12. ALL OTHER AREAS DISTURBED, DUE TO CONSTRUCTION, SHALL BE LOAMED SEEDED, AND MULCHED AS PER STATE D.E.E.P. SOIL EROSION AND SEDIMENT CONTROL REGULATIONS.
13. LEACHING AREAS SHALL BE PROTECTED AT ALL TIMES FROM SURFACE WATER RUNOFF BY APPROPRIATE BERMING AND SWALES. AT NO TIME SHALL SURFACE WATER RUNOFF BE PERMITTED TO ENTER ANY LEACHING SYSTEM COMPONENTS.
14. THE RESERVE AREA NEED NOT BE PREPARED AT THIS TIME, BUT WILL REQUIRE A DESIGN SYSTEM AS PREPARED BY A PROFESSIONAL ENGINEER.
15. ALL STONE WALLS WITHIN 25' OF THE SEPTIC LEACHING FIELDS ARE TO BE REMOVED UNLESS IT'S FOUNDATION IS WITHIN 12" OF EXISTING GROUND, AND APPROVED BY THE ENGINEER.
16. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE PLANS PRIOR TO PROCEEDING WITH CONSTRUCTION AND ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER WHO SHALL HAVE FINAL SAY AS TO ACTUAL DIMENSIONS BY WHICH TO CONSTRUCT.
17. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH STATE OF THE ART DESIGN TECHNIQUES BUT DOES NOT GUARANTEE AGAINST FAILURE DUE TO MISUSE, LACK OF MAINTENANCE OR INCREASED FLOWS.
18. THE OWNER IS RESPONSIBLE FOR SELECTING A CONTRACTOR TO INSTALL THE SYSTEM. THE OWNER SHALL BE RESPONSIBLE FOR RETAINING A PROFESSIONAL LICENSED ENGINEER TO INSPECT THE CONSTRUCTION OF THE SYSTEM. THE ENGINEER IS NOT RESPONSIBLE FOR METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES USED BY THE CONTRACTOR IN COMPLETING THE WORK OR FAILURE OF THE CONTRACTOR TO PERFORM THE WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR GIVING THE ENGINEER 48 HOURS NOTICE FOR ALL REQUIRED INSPECTIONS. THE OWNER IS FURTHER ADVISED TO HAVE THE CONTRACTOR NOTIFY THEM AND THE ENGINEER OF THE PROCEDURES AND SCHEDULE TO INSTALL THE SYSTEM PRIOR TO THE COMMENCEMENT OF WORK.
19. THE DEEP TEST HOLE AND PERCOLATION TESTS THAT WERE PERFORMED ON THE SITE ARE SPECIFIC TO THE TESTED LOCATION ONLY. THESE RESULTS DO NOT WARRANT THAT THESE CONDITIONS WILL PREVAIL WITHIN THE ENTIRE DISPOSAL AREA. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE OWNER SHOULD CONDITIONS DIFFER FROM THE ORIGINAL TEST DATA. THE OWNER SHALL BE RESPONSIBLE FOR NOTIFYING THE DESIGN ENGINEER.
20. NO BALLAST IS REQUIRED FOR THE SEPTIC TANK PROVIDING A MINIMUM COVER OF 1.50' IS MAINTAINED, RESPECTIVELY.

**PERCOLATION TEST DATA:**

INVESTIGATIONS & TESTS:  
TESTING PERFORMED BY DAVID A. HUGHES, P.E., L.S.  
TESTS PERFORMED ON FEBRUARY 16, 2022.

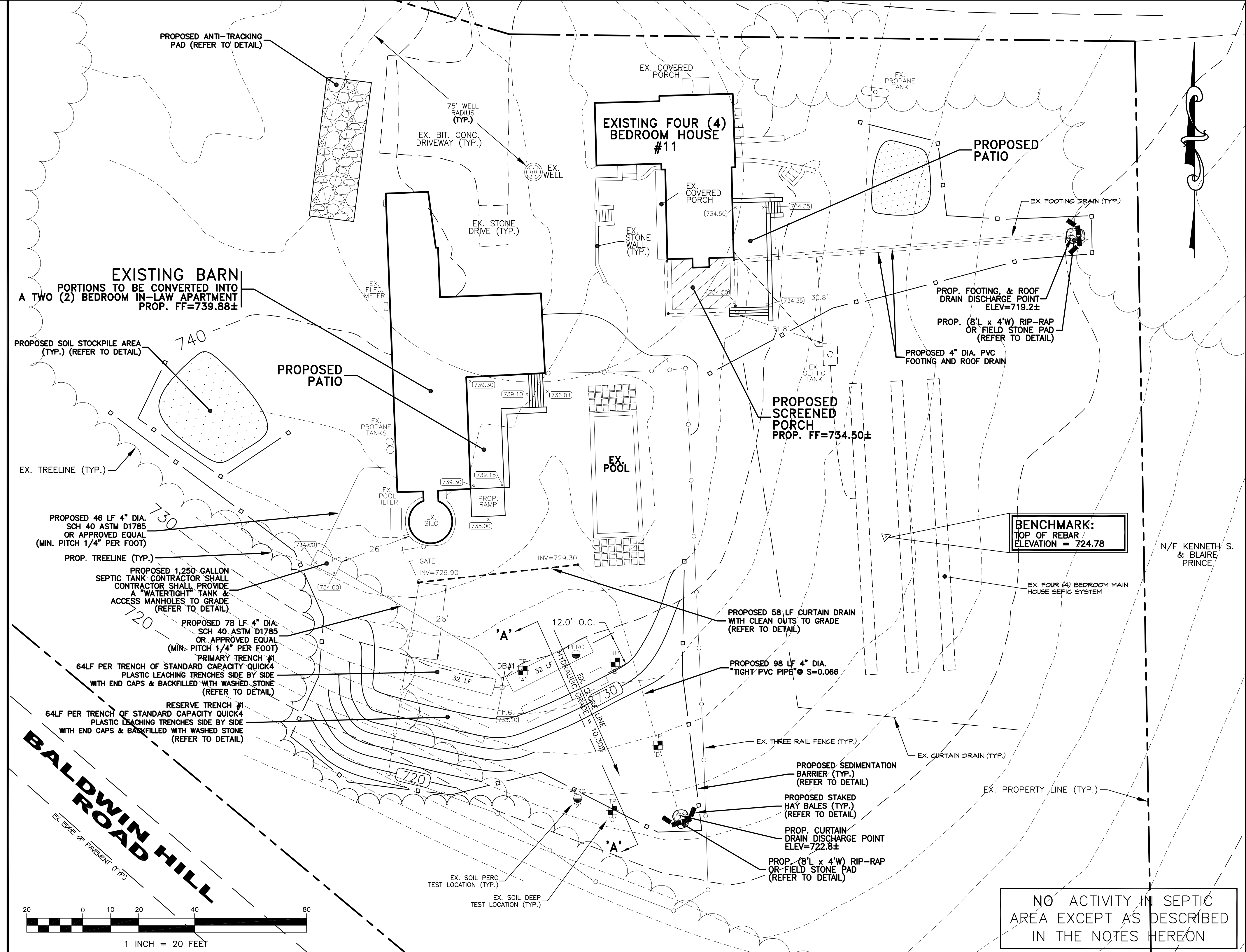
'1'		'2'	
DEPTH = 18.5" RAINFALL PREVIOUS DAY	DEPTH = 17" RAINFALL PREVIOUS DAY	DEPTH = 18.5" RAINFALL PREVIOUS DAY	DEPTH = 17" RAINFALL PREVIOUS DAY
TIME	READING (in)	TIME	READING (in)
12:25	1.75"	12:22	0.15"
12:30	3.5"	12:27	0.875"
12:35	4.5"	12:32	1"
12:40	5.5"	12:37	1"
12:45	6.375"	12:42	1"
1:00	6.875"	12:47	1"
1:10	7.375"	12:52	1"
1:20	7.875"	12:57	1"
1:30	8.375"	1:02	1"
1:40	8.875"	1:07	1.125"
1:50	9.375"	1:12	1.125"
1:55	9.875"	1:17	1.125"
2:00	9.875"	1:22	1.375"

RATE = 10.1-20.0 M/L      RATE = > 60.0 M/L

**OBSERVATION PIT DATA:**

INVESTIGATIONS & TESTS: TESTING PERFORMED BY POMPERAUG HEALTH DISTRICT AND DAVID A. HUGHES, P.E., L.S.  
OBSERVATION PITS PERFORMED ON MARCH 25, 2022.

Deep Test Pit 'A': 0-7" Topsoil	Deep Test Pit 'B': 0-8" Topsoil	Deep Test Pit 'C': 0-6" Topsoil	Deep Test Pit 'D': 0-7" Topsoil
7-19" Orange Fine Shady Loam	8-21" Orange Fine Shady Loam	6-20" Orange Fine Shady Loam	7-18" Orange Fine Shady Loam
19-85" Olive Grey Compact Fine Sand & Silt	21-90" Olive Grey Compact Fine Sand & Silt	20-83" Olive Grey Compact Fine Sand & Silt	18-90" Olive Grey Compact Fine Sand & Silt
Roots @ 40"; No Groundwater, No Ledge, Mottling @ 19"	Roots @ 44"; GW Seeping @ 50" No Ledge, Mottling @ 21"	Roots @ 25"; GW Seeping @ 49" No Ledge, Mottling @ 20"	Roots @ 35"; GW Seeping @ 31" No Ledge, Mottling @ 18"



**NOTES:**

1. REFER TO SHEET C3 FOR ALL CONSTRUCTION, SELECT FILL & INSPECTION NOTES.

**SUBSURFACE SEWAGE DISPOSAL SYSTEM - SITE PLAN**

1"=20'

**SCHEDULE OF INVERTS:**

INVERT AT FOUNDATION = 733.50
SEPTIC TANK: INLET = 732.00 OUTLET = 731.75
D-BOX #1: INLET = 730.12 OUTLET = 730.96 H/O = 731.04
TRENCH #1: TRENCH INVERT = 730.87 BOTTOM OF TRENCH = 730.20 LENGTH OF TRENCH = 64 LF

**IMPROVEMENT LOCATION SURVEY - PROPOSED**  
#11 IVES ROAD WASHINGTON, CT  
PREPARED FOR  
**MR. & MRS. KENNETH S. PRINCE**

REVISIONS

1	
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3	
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DRAWN BY: DAH  
DATE: 06/30/22  
SCALE: 1"= 20'  
APPROVED BY: DAH

NO ACTIVITY IN SEPTIC AREA EXCEPT AS DESCRIBED IN THE NOTES HEREON

**DAVID A. HUGHES**  
PROFESSIONAL ENGINEER & LAND SURVEYOR  
57 NORWAY STREET  
DAKVILLE, CT 06429  
(860) 681-7483

PROJECT NO. 0346  
DWG. NO. **C2**

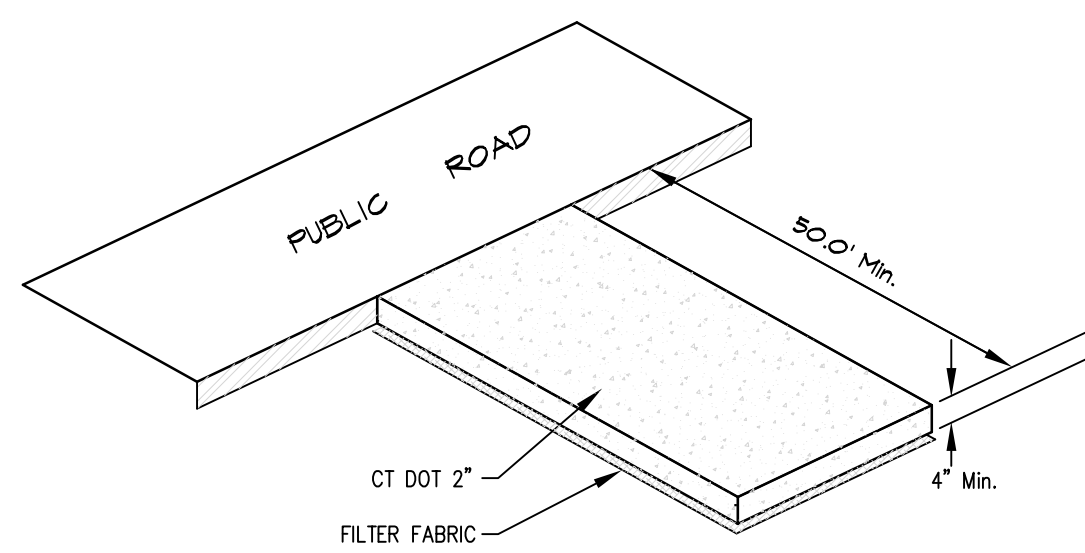
**PROJECT NOTES:**

1. THE CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION.
2. ALL CONSTRUCTION MATERIALS, PRACTICES AND PROCEDURES SHALL CONFORM TO THE TOWN OF WATER TOWN REGULATIONS, AS AMENDED TO DATE.
3. WHERE LAWS AND REGULATIONS OF PUBLIC AUTHORITY PRESCRIBE A HIGHER DEGREE OF PROTECTION THAN SPECIFIED HEREIN, THEN THE HIGHER DEGREE SO PRESCRIBED SHALL GOVERN.
4. ALL CONSTRUCTION MUST CONFORM TO CTDOT FROM 817, AS AMENDED TO DATE.
5. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND LICENSES REQUIRED BY FEDERAL, STATE OR LOCAL AUTHORITIES TO PERFORM THE WORK. PAY ALL FEES IN CONNECTION THEREWITH, AND ABIDE BY ALL REGULATIONS, ORDINANCES, CODES AND OTHER RULES OF SUCH AUTHORITIES HAVING JURISDICTION.
6. UNLESS OTHERWISE INDICATED, DETAILS SHOWN ON ANY DRAWINGS ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS.
7. THE INFORMATION SHOWN ON THE FOLLOWING SHEETS ARE LIMITED TO THE INFORMATION MADE AVAILABLE AT THE TIME OF THE DESIGN SERVICES WERE RENDERED.
8. THE CONTRACTOR SHALL PROPERLY PROTECT ADJOINING PROPERTY OUTSIDE THE PROJECT LIMITS FROM DAMAGE. ANY DAMAGE TO THE SAME SHALL BE SUBJECT TO REPAIRS BY THE CONTRACTOR WITHOUT COST TO THE OWNER.
9. ALL DRIVEWAYS, ROADS, SIDEWALK AND YARD AREAS DISTURBED BY CONSTRUCTION IN OR OUTSIDE THE PROJECT AREA SHALL BE RETURNED TO THEIR ORIGINAL CONDITION OR BETTER, AND SHALL BE GRADED TO MEET PROPOSED FINISHED GRADES. GRASSED AREAS DISTURBED BY CONSTRUCTION SHALL BE LOAMED, FERTILIZED AND SEEDED OR SODDED, AS IT APPLIES.
10. THE CONTRACTOR SHALL TAKE SPECIAL CAUTION TO PRESERVE AND PROTECT FROM INJURY ALL TREES AND VEGETATION LOCATED WITHIN WETLANDS AND AS INDICATED TO REMAIN, NO UNNECESSARY CUTTING OR TRIMMING OF TREES WILL BE PERMITTED, UNLESS AUTHORIZED BY THE OWNER.
11. LOCATIONS OF EXISTING UTILITIES HAVE BEEN TAKEN FROM UTILITY MAPS OR BY OTHER MEANS. ACTUAL FIELD LOCATIONS AND ELEVATIONS ARE TO BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ALL UTILITY COMPANIES AFFECTED BY THE WORK ON OR NEAR THE PROJECT AREA SHALL BE CONTACTED PRIOR TO COMMENCEMENT OF THE WORK.
12. ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD, AND DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK. THE ENGINEER SHALL HAVE FINAL SAY AS TO THE ACTUAL DIMENSIONS BY WHICH TO CONSTRUCT. NO ALLOWANCES SHALL BE MADE FOR DIFFERENCES BETWEEN ACTUAL MEASUREMENTS AND THOSE SHOWN ON THE DRAWINGS.

**INSPECTIONS:**

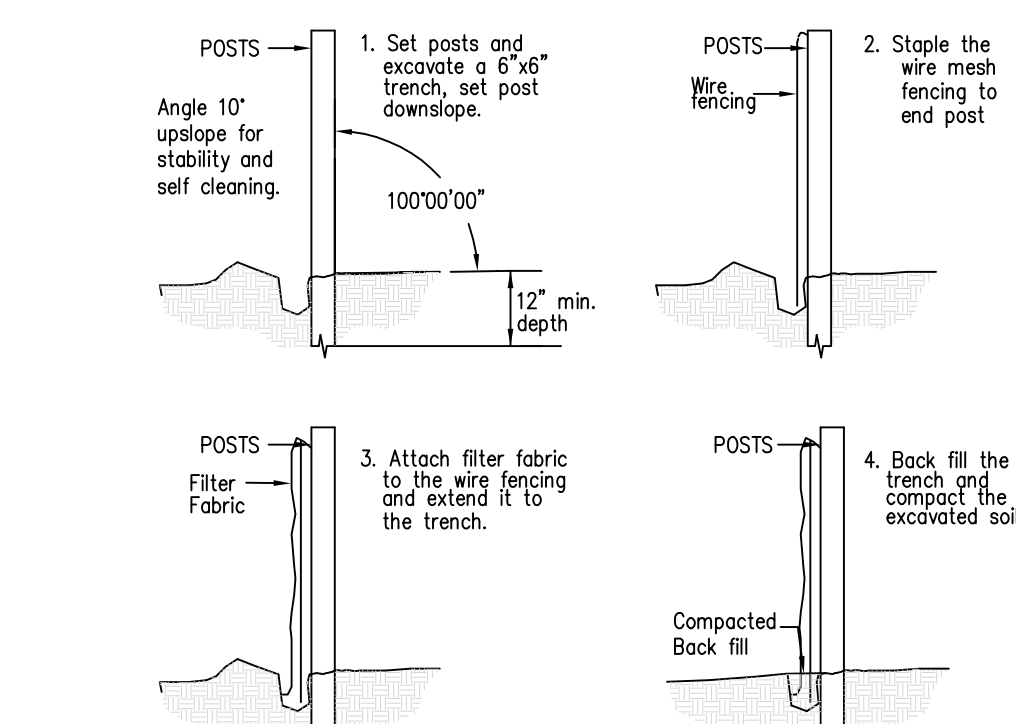
1. CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND THE POMPERAUG HEALTH DEPARTMENT AT LEAST 24 HOURS PRIOR TO STARTING CONSTRUCTION OR THE OR THE SYSTEM INSTALLATION WILL NOT BE CERTIFIED.
2. THE CONTRACTOR IS ALSO RESPONSIBLE FOR COORDINATING WITH THE DESIGN ENGINEER OR HIS AUTHORIZED AGENT, INSPECTIONS OF THE SYSTEM AT THE FOLLOWING MINIMUM STAGES OF CONSTRUCTION:
  - A. AFTER DISPOSAL AREA HAS BEEN STRIPPED AND SCARIFIED.
  - B. AFTER THE SELECT FILL HAS BEEN PLACED BUT PRIOR TO ANY PORTION ON THE DISPOSAL SYSTEM TRENCHING BEING INSTALLED.
  - C. AFTER THE SEPTIC TANK, PIPE, LEACHING SYSTEMS AND FILTER FABRIC HAVE BEEN PLACED, BUT PRIOR TO TOTAL BACKFILLING CONTRACTOR MAY BACKFILL OVER A PORTION OF THE TRENCHES LEAVING THE SEPTIC TANK, ALL DISTRIBUTION BOXES, AND THE ENDS AND ANGLE POINTS OF ALL TRENCHES OPEN FOR INSPECTION.

**SOIL EROSION & SEDIMENT CONTROL DETAILS:**



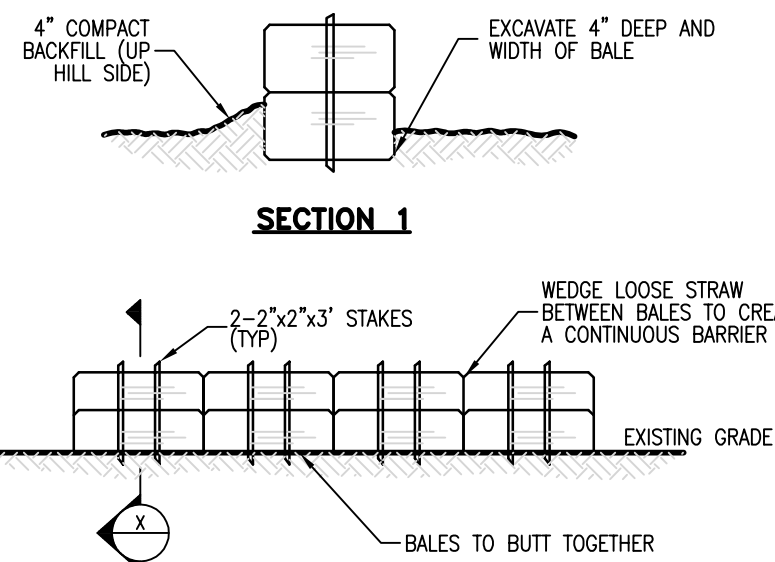
**CONSTRUCTION ENTRANCE**

N.T.S.



**SEDIMENTATION BARRIER DETAIL**

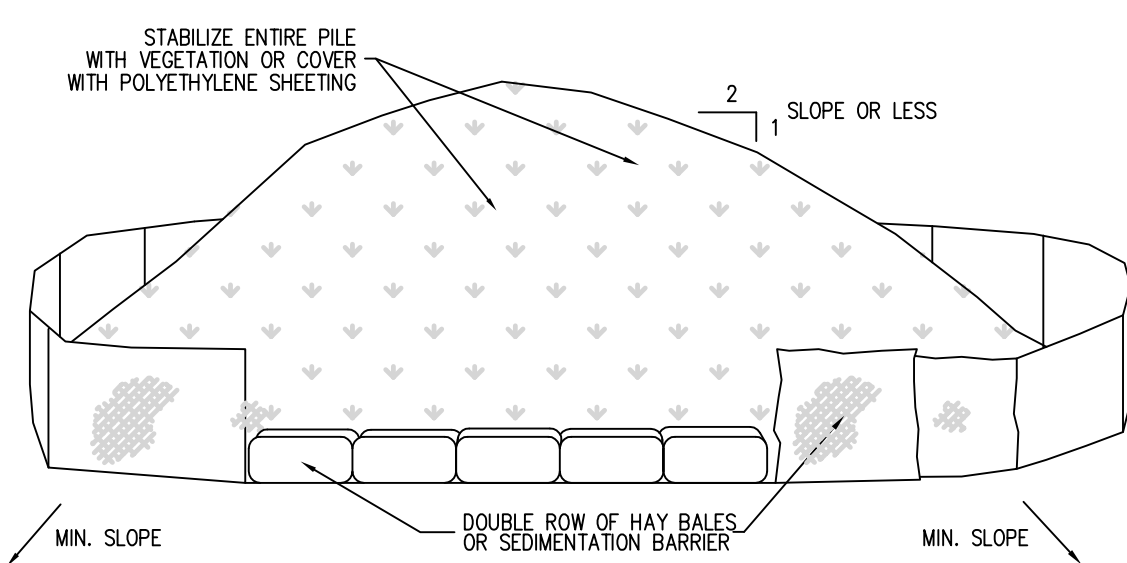
N.T.S.



**STAKED HAYBALE DETAIL**

N.T.S.

- NOTES:**
1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
  2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2:1.
  3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH DOUBLE ROW OF SILT FENCING OR STRAWBALES, THEN STABILIZED WITH VEGETATION OR COVERED WITH POLYETHYLENE SHEETING.
  4. TO BE USED WHERE TOPSOIL IS NECESSARY FOR REGRADING AND VEGETATING DISTURBED AREAS. TOPSOIL IS APPLIED TO SUBSOILS THAT ARE DRAUGHTY (HAVING LOW AVAILABLE MOISTURE FOR PLANTS), STONY, SALTY, HAVE LOW PERMEABILITY, OR ARE EXTREMELY ACID. IT IS ALSO USED TO BACKFILL AROUND SHRUB AND TREE TRANSPLANTS. PRESERVATION OF EXISTING TOPSOIL IS BENEFICIAL FOR ALL TYPES OF LAWN OR ORNAMENTAL PLANTINGS.
  5. TEMPORARY STOCKPILE STABILIZATION MEASURES INCLUDE VEGETATIVE COVER, MULCH, NONVEGETATIVE COVER, AND PERIPHERAL SEDIMENT TRAPPING BARRIERS. THE STABILIZATION MEASURE(S) SELECTED SHOULD BE APPROPRIATE FOR THE TIME OF YEAR, SITE CONDITIONS, AND REQUIRED PERIOD OF USE.
  6. SEE EROSION AND SEDIMENT CONTROL PLAN FOR LOCATIONS.



**SOIL STOCKPILE DETAIL**

N.T.S.

**EROSION AND SEDIMENTATION CONTROL NOTES & NARRATIVE:**

**A. PROJECT INFORMATION**

1. Area of Site - 4.74 Acres.
2. Area Proposed Disturbance Due to Construction Activities - 0.20 Acres.
3. Phases of Development - The estimated phases of construction have been detailed in the sequence of construction.
4. Estimated Start Date of Construction - Summer 2022.
5. Estimated Construction Completion Date - Fall 2023.

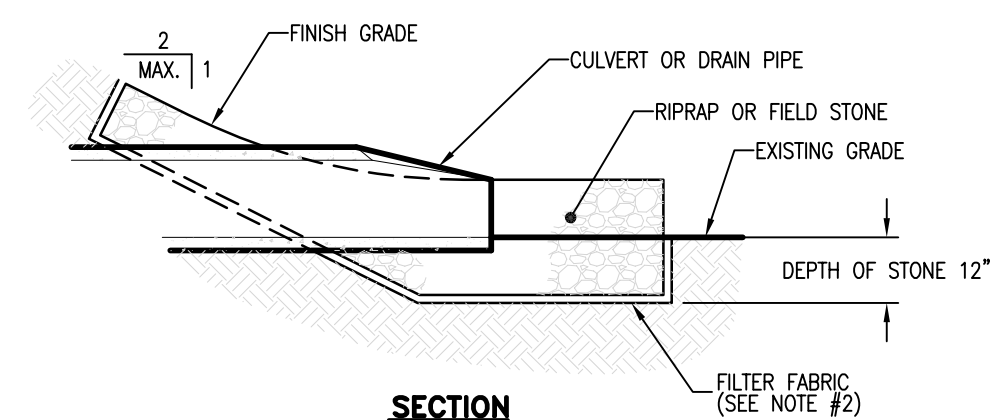
**B. SEQUENCE OF CONSTRUCTION**

1. Contractor must notify "Call Before You Dig" at least 72 hours prior to any excavation.
2. Install silt fence and erosion controls, according to plan.
3. Clear vegetation within project limits, except trees designated to remain.
4. After each rain storm, monitor the sedimentation and erosion control structures, routinely remove sediment during construction when controls exceed one half (1/2) their capacity.
5. Strip topsoil and subsoil materials as required and stockpile them.
6. Excavate for and construct patio and house addition foundations.
7. Excavate for and install all utilities, drainage and service laterals.
8. Construct septic system and install well.
9. Complete finish grading and landscaping areas.
10. Remove temporary erosion control measures once permanent measures have matured.

**C. NARRATIVE**

1. Land disturbance shall be kept to a minimum, restabilization shall be scheduled as soon as possible. For those areas which are left exposed for more than 30 days, temporary seeding for stabilization shall be utilized.
2. Slopes shall be restricted to two (2) feet horizontal to one (1) foot vertical maximum or flatter.
3. All disturbed areas, excluding paved areas, shall be covered with four (4) inches of loam, minimum and seeded.
4. All Erosion and Sedimentation Control Measures shall be constructed in accordance with the Standards and Specs of the Erosion and Sedimentation Control Handbook.
5. The application and specific details of Erosion and Sedimentation Control shall follow the Connecticut Council on Soil and Water Conservation Manual entitled "Guidelines for Soil Erosion and Sediment Control", Dated May 2002, as amended to date.
6. All control measures shall be maintained in effective condition throughout the completion of the project.
7. Additional control measures shall be installed throughout the completion of the project if deemed necessary by the Town or the Engineer of record.
8. Silt Fence must be installed according to this plan prior to any construction.
9. Contractor is responsible for correcting any unforeseen field conditions.
10. All construction shall conform to the Standards of the Town.
11. The CONTRACTOR of record or its agent shall be responsible for registering the project with the CTDEEP for "Discharge of Stormwater and Dewatering Wastewaters" per Section 22a-430b of the Connecticut General Statutes whenever five acres or more of accumulated disturbance will occur with the parcel's boundaries.
12. The CONTRACTOR shall be responsible for retaining a licensed Professional Engineer or Certified Soil Erosion & Sediment Control Specialist to inspect the site periodically in accordance with CT DEEP guidelines. Monitoring reports shall be prepared and filed with the OWNER, contractor and Inland-Wetland office of the Town of Watertown.
13. The responsibility for implementing and maintaining the Soil Erosion and Sedimentation Control Plan rests with the CONTRACTOR, where any development of the parcel gives cause to erosion and sedimentation. It is also to be said that the CONTRACTOR shall be held responsible for informing all concerned regarding responsibility of the SE&SC plan and seeing that the plan becomes a part of the deed in the event the title of the property is transferred. The costs of all drainage erosion and sedimentation control measures will therefore rest with the CONTRACTOR.
14. The CONTRACTOR shall be responsible for controlling dust and debris on the surrounding roadways during construction. Proper safety precautions and equipment must be utilized when working on public roadways and are the CONTRACTOR'S responsibility to provide.

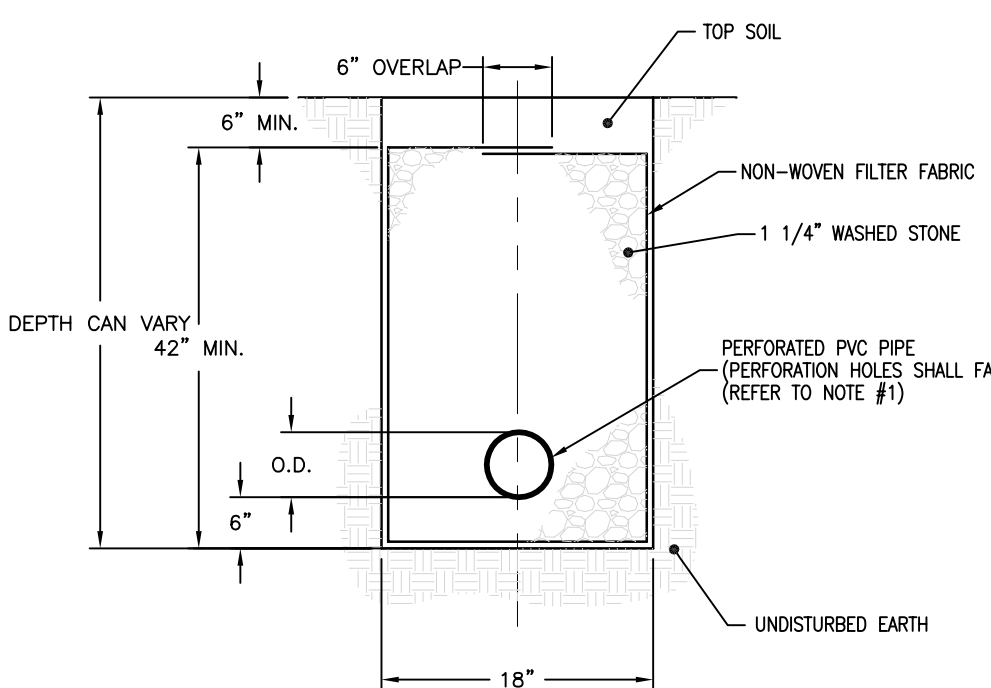
- NOTES:**
1. ALL TOTAL WIDTHS AND LENGTHS FOR SPREADER PAD INSTALLATIONS ARE AS INDICATED ON PLANS.
  2. FILTER FABRIC SHALL BE A WOVEN MONOFILAMENT FABRIC AS MANUFACTURED BY MIRAFI FABRIC, 600X OR AMOCO FABRICS CO PROPEX 1325



**RIPRAP OR FIELD STONE SPLASHPAD DETAIL**

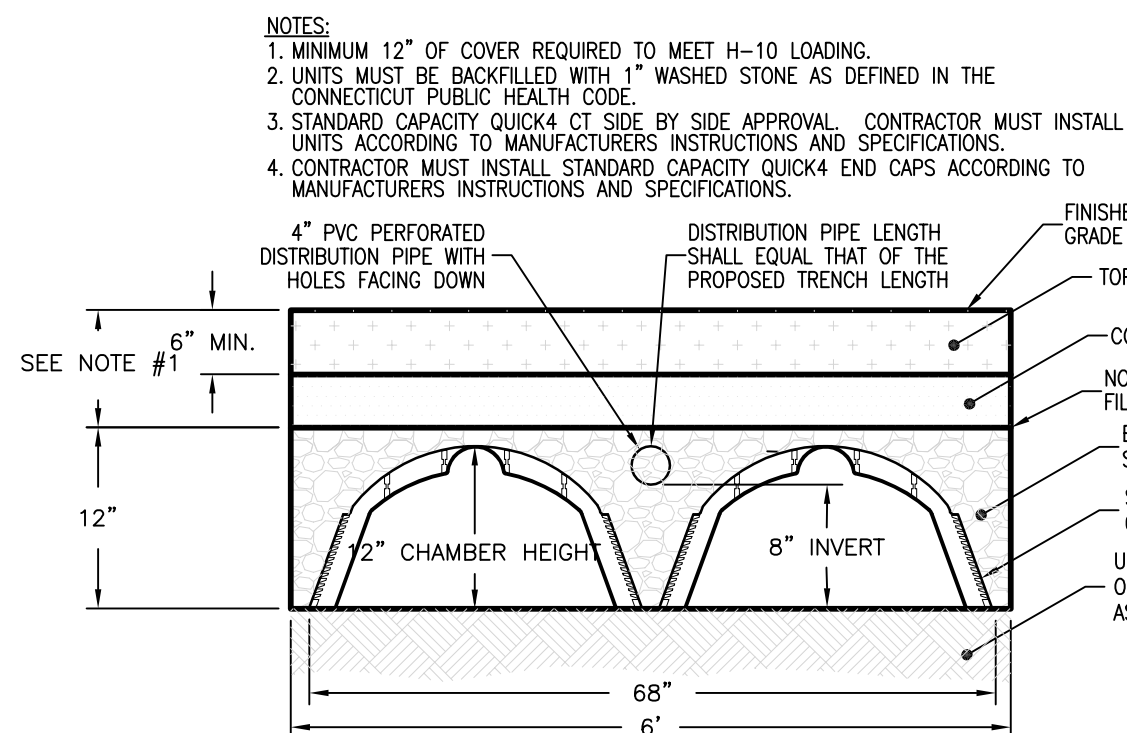
N.T.S.

- NOTES:**
1. THE CONTRACTOR SHALL INSTALL FOUR (4) INCH DIAMETER PIPE WHEN THE DISCHARGE SLOPE IS GREATER THAN ONE (1) PERCENT. CONTRACTOR SHALL INSTALL SIX (6) DIAMETER PIPE WHEN THE DISCHARGE SLOPE IS LESS THAN ONE (1) PERCENT.



**TYPICAL CURTAIN DRAIN DETAIL**

N.T.S.



**STANDARD CAPACITY QUICK4, SIDE BY SIDE LEACHING TRENCH DETAIL**

N.T.S.

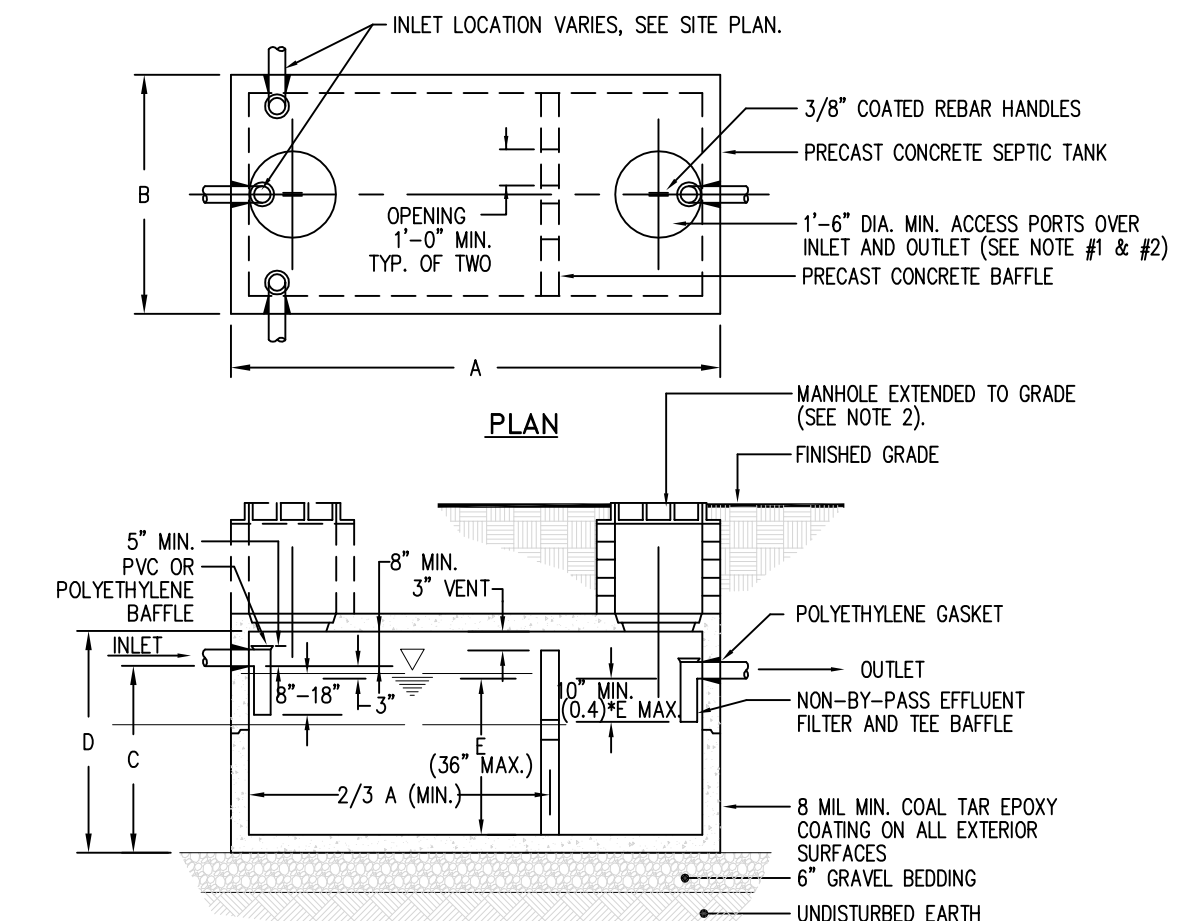
**CONSTRUCTION DETAILS:**

**NOTE:** DIMENSIONS MAY VARY DEPENDING ON MANUFACTURER. CONTRACTOR TO VERIFY SUITABILITY OF OTHER TANK DIMENSIONS PRIOR TO INSTALLATION.

SEPTIC TANK DIMENSION SCHEDULE						
LIQUID CAPACITY	A LENGTH	B WIDTH	C INVERT	D HEIGHT	E LIQUID LEVEL	UNIT(S) SPECIFIED
1000 GAL.	8'-0"	4'-4"	4'-3"	4'-9"	4'-0"	0
1250 GAL.	10'-0"	5'-2"	5'-3"	5'-11"	5'-2"	1
1500 GAL.	10'-0"	5'-2"	4'-3"	4'-9"	4'-0"	0
2000 GAL.	11'-3"	5'-10"	4'-2"	5'-0"	3'-11"	0
2500 GAL.	11'-3"	5'-10"	5'-2"	6'-0"	4'-11"	0

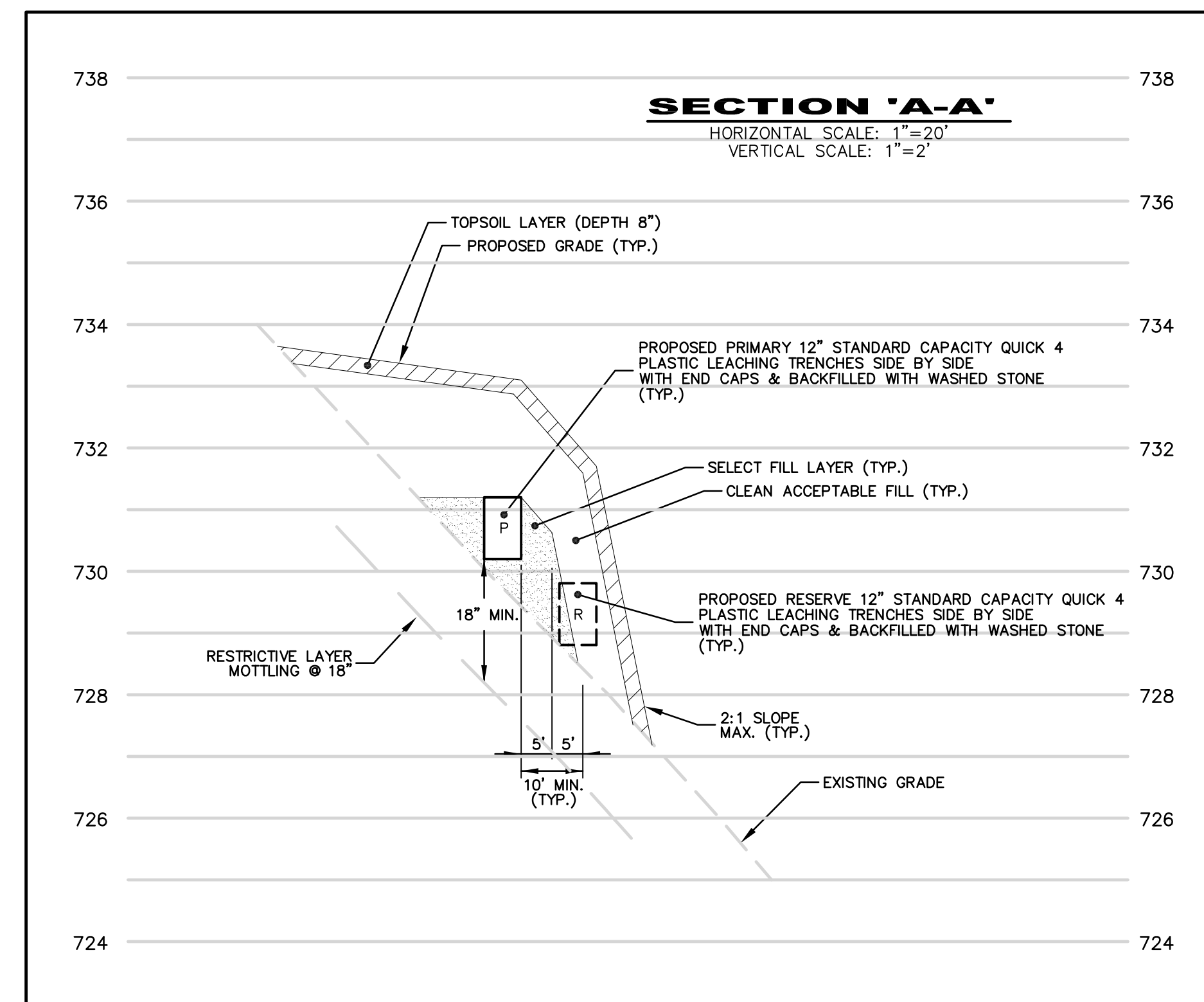
**NOTES:**

1. MANHOLE COVERS SHALL BE LABELED WITH NOTIFICATION OF ITS TWO COMPARTMENT CONSTRUCTION AND WARNING TO EVERYONE THAT "ENTRANCE INTO TANK COULD BE FATAL".
2. ACCESS MANHOLES ARE REQUIRED IN ALL AREAS.
3. ALL TANK INFORMATION AND TANK LIQUID CAPACITY SHALL BE MARKED ON THE TOP OF THE TANK, BETWEEN THE OUTLET ACCESS HOLE AND OUTLET WALL, OR ON THE VERTICAL OUTLET WALL BETWEEN THE TOP OF THE TANK AND THE TOP OF THE OUTLET OPENING.
4. SPECIFICATIONS: CONCRETE MINIMUM STRENGTH - 4,000 PSI @ 28 DAYS WITH A 4% TO 7% AIR ENTRAINMENT. STEEL REINFORCEMENT - ASTM A615, GRADE 60, 1" MINIMUM COVER. CONSTRUCTION JOINTS TO BE SEALED WITH 1" BUTYL RUBBER OR EQUAL AND PARDED WITH A WATERPLUG GROUT. TOTAL SYSTEM TO BE WATERIGHT. DESIGN LOADING - AASHTO H-20 FOR ALL TRAVELED AREAS. LIGHT DUTY SERVICE FOR ALL NON-TRAVELED AREAS. TANK TO BE ASTM C1227 COMPLIANT.



**PRECAST CONCRETE SEPTIC TANK**

N.T.S.



**SECTION 'A-A'**

HORIZONTAL SCALE: 1"=20'  
VERTICAL SCALE: 1"=2'

REVISIONS

1	
2	
3	
4	
5	
6	

DRAWN BY: DAH  
DATE: 06/30/22  
SCALE: AS NOTED  
APPROVED BY: DAH

**DAVID A. HUGHES**  
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PROJECT NO.  
0346

DWG. NO.  
**C3**