

- NOTES:**
1. LOCATION: 310 EAST BROADWAY
PARCEL ID: 469-187-34C-1
 2. DEED: NORTHERN ESSEX REGISTRY OF DEEDS
BOOK 27720 PAGE 347
 3. ZONE: RURAL RESIDENTIAL (RR)
 4. USE: VACANT
 5. OWNER: NORTH SHORE GOLF CLUB HOLDINGS
377 KENOZA ST.
HAVERHILL, MA 01830
 6. SOILS/WETLANDS: NORSE ENVIRONMENTAL SERVICES, INC.
2100 LAKEVIEW AVE., UNIT 3A
DRACUT, MA 01826
 7. EXISTING CONDITIONS INFORMATION GENERATED FROM RECORD DOCUMENTS, READILY AVAILABLE INFORMATION AS WELL AS AN ON THE GROUND SURVEY PERFORMED BY CIVIL DESIGN CONSULTANTS INC. IN SEPT. 2025.
 8. A PORTION OF THE PROPERTY IS LOCATED WITHIN A DESIGNATED FLOOD HAZARD AREA, ZONES AE AND X WITH A BASE FLOOD ELEVATION OF 17.8', PER FLOOD INSURANCE RATE MAP NUMBER 25009C0094G DATED JULY 8, 2025.
 9. PLAN BEARINGS ARE BASED UPON THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM (NAD83) - MAINLAND ZONE, PER GPS OBSERVATIONS.
 10. ALL ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM (NAVD88), PER GPS OBSERVATIONS.
 11. UTILITY LOCATIONS ARE SHOWN PER READILY AVAILABLE RECORD INFORMATION AND OBSERVABLE FIELD EVIDENCE. OTHER UNDERGROUND UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THIS PLAN. CDCI MAKES NO CLAIM TO THE ACCURACY OR COMPLETENESS OF UTILITY INFORMATION. 72 HOURS PRIOR TO ANY EXCAVATION ON SITE, THE CONTRACTOR SHALL CONTACT DIG-SAFE AT 811.
 12. WETLANDS WERE DELINEATED IN 2025 BY NORSE ENVIRONMENTAL SERVICES, INC.

- PLAN REFERENCES:**
RECORDED AT THE ESSEX REGISTRY OF DEEDS NORTH DISTRICT.
1. "PLAN OF LAND IN HAVERHILL, MA", DATED FEBRUARY 15, 1995, PREPARED BY MERRIMACK ENGINEERING SERVICES, RECORDED ON MARCH 8, 1995 AS PLAN BOOK 297 PLAN 24.
 2. "PLAN OF LAND IN HAVERHILL MASSACHUSETTS", DATED MARCH 14, 2003, PREPARED BY MERRIMACK ENGINEERING SERVICES, RECORDED ON JUNE 16, 2003 AS PLAN BOOK 368 PLAN 55.

- BENCH MARKS:**
- TBM-1 FOUND NAIL ON NORTHWESTERLY FACE OF UTILITY POLE #57 ELEV=20.38'
 - TBM-2 SET SPIKE ON EASTERLY FACE OF UTILITY POLE #56 ELEV=22.53'

LEGEND	
PROPERTY LINE	---
BUILDING SETBACK	---
EXISTING CONTOUR	---
LIMIT OF BORDERING VEGETATED WETLAND (BVW)	---
25 FT NO BUILD, NO DISTURB ZONE	---
50 FT NO BUILD ZONE	---
100 FT BUFFER TO BVW	---
FEMA FLOODPLAIN	---
EDGE OF PAVEMENT	---
CHAIN LINK FENCE	---
PROPOSED CURB	---
PROPOSED PAVEMENT	---
PROPOSED CONCRETE	---
PROPOSED CONTOUR	---
PROPOSED SPOT GRADE	---
PROPOSED SPOT GRADE (TW/BW)	---
PROPOSED DRAIN	---
PROPOSED DRAIN MANHOLE	---
PROPOSED SILT FENCE	---
PROPOSED RETAINING WALL	---
PROPOSED LANDSCAPE AREA	---
PROPOSED WATER	---
PROPOSED GATE VALVE/REDUCER & HYDRANT	---
PROPOSED GAS	---
PROPOSED ELECTRIC/TELEPHONE/CABLE	---
PROPOSED MONUMENT	---
PROPOSED IRON PIN	---
PROPOSED EASEMENT	---
PROPOSED LIMIT OF WORK	---
MAIL BOX	---
DECIDUOUS TREE	---
UTILITY POLE	---

PLAN INDEX:

TITLE	DATE ISSUED	REVISION
C-1 COVER SHEET	02/05/26	04/15/26
C-2 EXISTING CONDITIONS	04/15/26	
C-3 GRADING, DRAINAGE, & UTILITY PLAN	02/05/26	04/15/26
C-4 SEWAGE DISPOSAL PLAN	02/05/26	04/15/26
D-1 CONSTRUCTION DETAILS	02/05/26	
D-2 CONSTRUCTION DETAILS	02/05/26	04/15/26

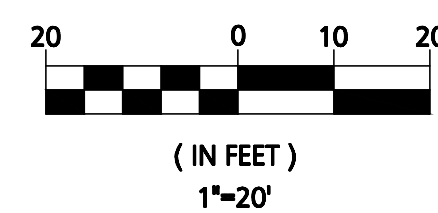
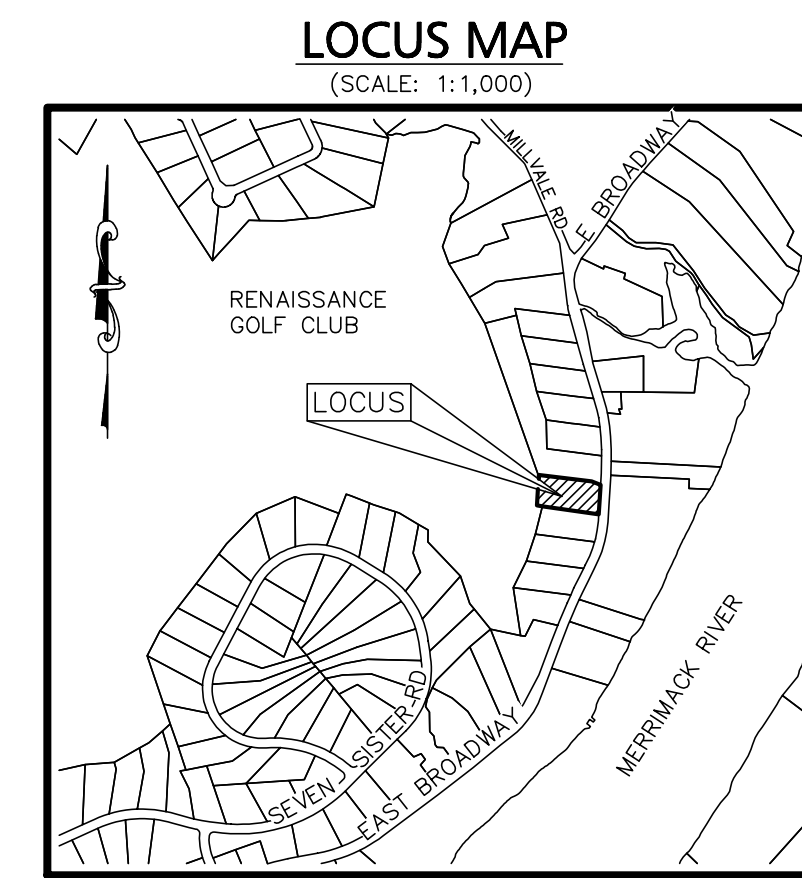
SITE DEVELOPMENT PLANS

FOR

310 EAST BROADWAY

(MAP 469/ BLOCK 187 / LOT 34C-1)

HAVERHILL, MASSACHUSETTS 01830

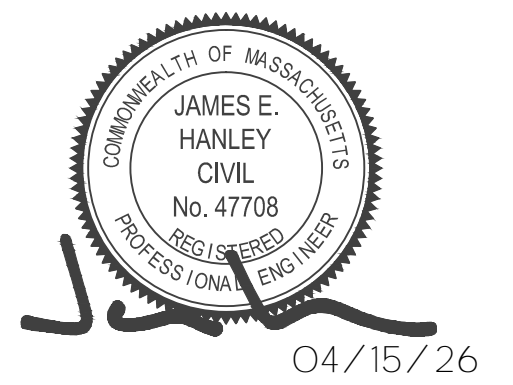


DATE	DESCRIPTION
04/15/2026	CONSERVATION COMMENT REVISIONS

APPLICANT:
MITCHELL MESSER
39 LAZARUS WAY
SALEM, NH 03079

PROJECT:
310 EAST BROADWAY
HAVERHILL, MA 01830

DATE ISSUED: FEBRUARY 05, 2026
PROJECT #: 25-10802
PREPARED BY: KC



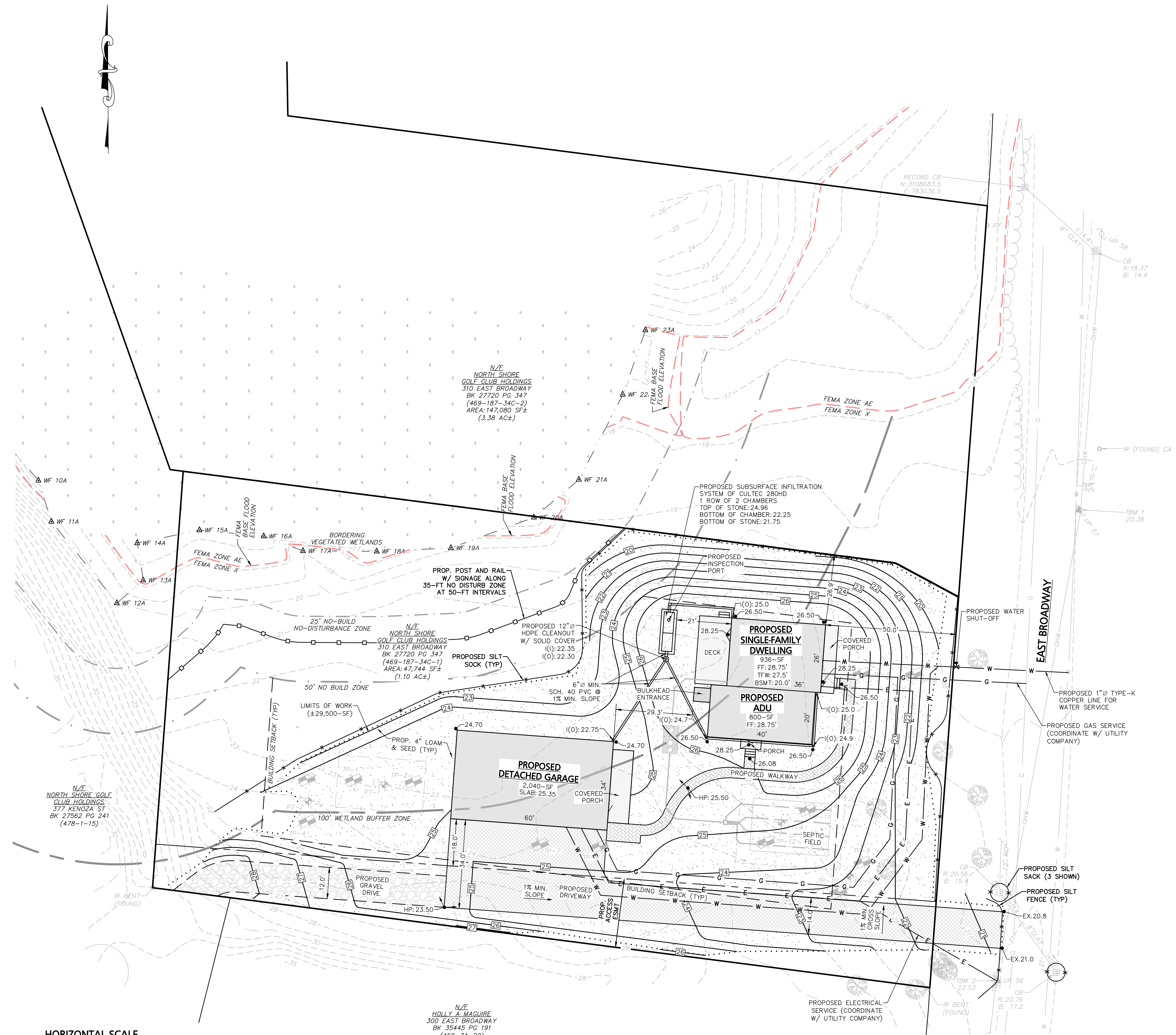
PROFESSIONAL ENGINEER FOR CIVIL DESIGN CONSULTANTS, INC.



DRAWING TITLE:
COVER SHEET

DRAWING #:

C-1



LAND USE TABLE			
LOCATION:	310 EAST BROADWAY (LOTS 469-187-34C-1) HAVERHILL, MA 01830		
ZONE:	RURAL RESIDENTIAL (RR)		
USE:	VACANT	EXISTING	PROPOSED
	REQUIRED	LOT 34C-1	LOT 34C-1
MINIMUM LOT AREA - SF	80,000	47,744 ⁽²⁾	47,744 ⁽²⁾
MINIMUM LOT FRONTAGE - FEET	200	150 ⁽³⁾	150 ⁽³⁾
MINIMUM LOT DEPTH - FEET	125	300	300
MINIMUM FRONT SETBACK - FEET	40	-	50.0
MINIMUM SIDE SETBACK - FEET	25	-	26.9
MINIMUM REAR SETBACK - FEET	40	-	111.9
MAX. BUILDING HEIGHT - FEET	35	-	<35
MAX. BUILDING HEIGHT - STORIES	2.5	-	2.5
MAX. BUILDING COVERAGE ⁽¹⁾	15%	0%	7.9%
MINIMUM OPEN SPACE	70%	100%	>70%

LAND USAGE NOTES:
 1. BUILDING COVERAGE CALCULATION:
 LOT 34C: 1,736-SF + 2,040-SF / 47,744-SF X 100 = 7.9%
 2. A VARIANCE TO REQUIRED AREA IS REQUESTED FOR THIS LOT.
 3. A VARIANCE TO REQUIRED FRONTAGE IS REQUESTED FOR THIS LOT.

SITE NOTES:
 1. CONTRACTOR TO COORDINATE ALL BUILDING PENETRATIONS AND ROOF LEADER LOCATIONS WITH ARCHITECTURAL DOCUMENTS PRIOR TO CONSTRUCTION.

STORMWATER DESIGN NOTES:
 LOT 34C-1
 COMBINED IMPERVIOUS AREA COLLECTED
 ROOF AREA: ±4,191-SF
 STORAGE VOLUME CRITERIA
 BASED ON 0.5-INCH OF RAINFALL & WQV (0.0416-FT)
 4,191-SF X 0.0416-FT = 175-CF
 STORAGE VOLUME PROPOSED
 THE PROPOSED SYSTEM CONSISTS OF
 TWO (2) CULTEC 280HD UNITS
 CHAMBER & STONE STORAGE VOLUME: 190-CF
 CHAMBER & STONE STORAGE OF 190-CF > 175-CF.
 THEREFORE DESIGN IS ACCEPTED

LEGEND	
EXISTING BFE: 17.8	

DATE	DESCRIPTION
04/15/2026	CONSERVATION COMMENT REVISIONS

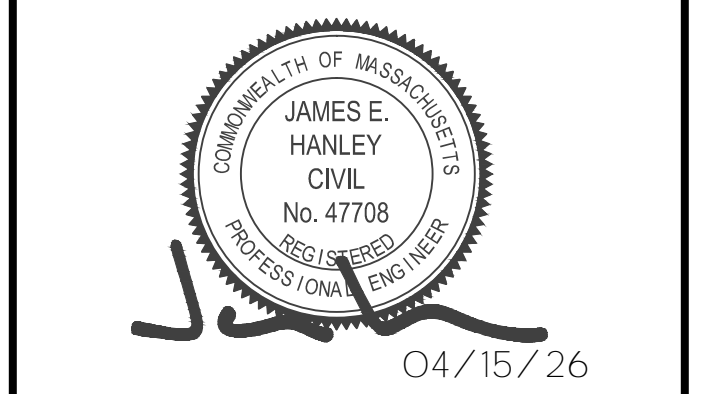
APPLICANT:
MITCHELL MESSER
 39 LAZARUS WAY
 SALEM, NH 03079

PROJECT:
310 EAST BROADWAY
 HAVERHILL, MA 01830

DATE ISSUED: FEBRUARY 05, 2026

PROJECT #: 25-10802

PREPARED BY: KC



PROFESSIONAL ENGINEER FOR CIVIL DESIGN CONSULTANTS, INC.



DRAWING TITLE:
GRADING, DRAINAGE & UTILITY PLAN

DRAWING #:
C-3

SOIL TEST DATA:

SOIL TESTING AND EVALUATION BY: TROY STEARNS, S.E. (# 15084)

SOIL TESTING WITNESSED BY: TIM WICKS
(ON BEHALF OF HAVERHILL B.O.H.)

DATE OF TEST: NOVEMBER 21, 2025

TEST PIT #1 - ELEVATION: 23.0

DEPTH	HOR.	COLOR	REDOX	TEXTURE
0"-12"	Ap	10YR3/4	---	LOAMY SAND
12"-16"	Bw	10YR4/3	---	LOAMY SAND
16"-120"	C	2.5Y6/4	84"	LOAMY SAND
(16.0)				

MOTTLES @ 84"
NO WEeping OBSERVED.

TEST PIT #2 - ELEVATION: 22.8

DEPTH	HOR.	COLOR	REDOX	TEXTURE
0"-46"	FILL	10YR3/4	---	---
46"-84"	C1	10YR4/3	---	SANDY LOAM
84"-125"	C1	2.5Y6/4	84"	SAND
(15.8)				

MOTTLES @ 84"
NO WEeping OBSERVED.

TEST PIT #3 - ELEVATION: 23.5

DEPTH	HOR.	COLOR	REDOX	TEXTURE
0"-60"	FILL	---	---	---
60"-120"	C	2.5Y6/4	70"	LOAMY SAND
(17.6)				

MOTTLES @ 70"
NO WEeping OBSERVED.

TEST PIT #4 - ELEVATION: 24.5

DEPTH	HOR.	COLOR	REDOX	TEXTURE
0"-42"	FILL	---	---	---
42"-72"	Bw	10YR5/8	---	LOAMY SAND
72"-120"	C	2.5Y5/4	80"	SANDY LOAM
120"-132"	2C	2.5Y5/4	---	CLAY LOAM
(17.6)				

MOTTLES @ 80"
NO WEeping OBSERVED.

TEST PIT #5 - ELEVATION: 20.4

DEPTH	HOR.	COLOR	REDOX	TEXTURE
0"-24"	Ap	10YR6/6	---	SANDY LOAM
24"-36"	Bw	10YR4/6	---	SANDY LOAM
36"-66"	C	2.5Y5/4	---	SANDY LOAM
66"-120"	2Cd	2.5Y5/4	---	SANDY LOAM

NO MOTTLES OBSERVED.
NO WEeping OBSERVED.

TEST PIT #6 - ELEVATION: 20.0

DEPTH	HOR.	COLOR	REDOX	TEXTURE
0"-55"	FILL	---	---	---
55"-100"	C	2.5Y5/4	---	SANDY LOAM
100"-120"	2Cd	2.5Y5/4	---	SANDY LOAM

NO MOTTLES OBSERVED.
NO WEeping OBSERVED.

TEST PIT #7 - ELEVATION: 24.2

DEPTH	HOR.	COLOR	REDOX	TEXTURE
0"-60"	FILL	---	---	---
60"-120"	C	2.5Y6/4	60"	LOAMY SAND
(19.2)				

MOTTLES @ 60"
NO WEeping OBSERVED.

TEST PIT #8 - ELEVATION: 24.5

DEPTH	HOR.	COLOR	REDOX	TEXTURE
0"-84"	FILL	---	---	---
84"-132"	C	2.5Y5/4	84"	SANDY LOAM
(17.8)				

MOTTLES @ 84"
NO WEeping OBSERVED.

TEST PIT #9 - ELEVATION: 22.5

DEPTH	HOR.	COLOR	REDOX	TEXTURE
0"-20"	FILL	---	---	---
20"-112"	C	10YR6/4	48"	SAND
(18.5)				

MOTTLES @ 48"
NO WEeping OBSERVED.

TEST PIT #10 - ELEVATION: 23.0

DEPTH	HOR.	COLOR	REDOX	TEXTURE
0"-24"	FILL	---	---	---
24"-112"	C	10YR6/4	48"	SAND
(19.0)				

MOTTLES @ 48"
NO WEeping OBSERVED.

TEST PIT #11 - ELEVATION: 22.5

DEPTH	HOR.	COLOR	REDOX	TEXTURE
0"-40"	FILL	---	---	---
40"-108"	C	10YR6/4	72"	SAND
(16.5)				

MOTTLES @ 72"
NO WEeping OBSERVED.

TEST PIT #12 - ELEVATION: 23.5

DEPTH	HOR.	COLOR	REDOX	TEXTURE
0"-12"	FILL	---	---	---
12"-108"	C	10YR6/4	79"	SAND
(16.6)				

MOTTLES @ 79"
NO WEeping OBSERVED.

PERC TEST PT-1:	5 MPI	=>	2 MPI DESIGN
PERC TEST PT-2:	5 MPI	=>	2 MPI DESIGN
PERC TEST PT-3:	<2 MPI	<	2 MPI DESIGN
PERC TEST PT-4:	<2 MPI	<	2 MPI DESIGN

SYSTEM SPECIFICATIONS FOR LOT 34C:

USE:	RES.
PROPOSED BEDROOM COUNT:	4 BR.
DESIGN FLOW:	440 GAL
DESIGN PERCOLATION RATE:	<2-MPH
LTAR (SAND CLASS I SOIL):	0.74 GPD/SF
SEPTIC TANK SIZE (1500 GAL MIN.):	1500 GAL
MIN. SOIL ABSORPTION SYSTEM SIZE:	595-SF

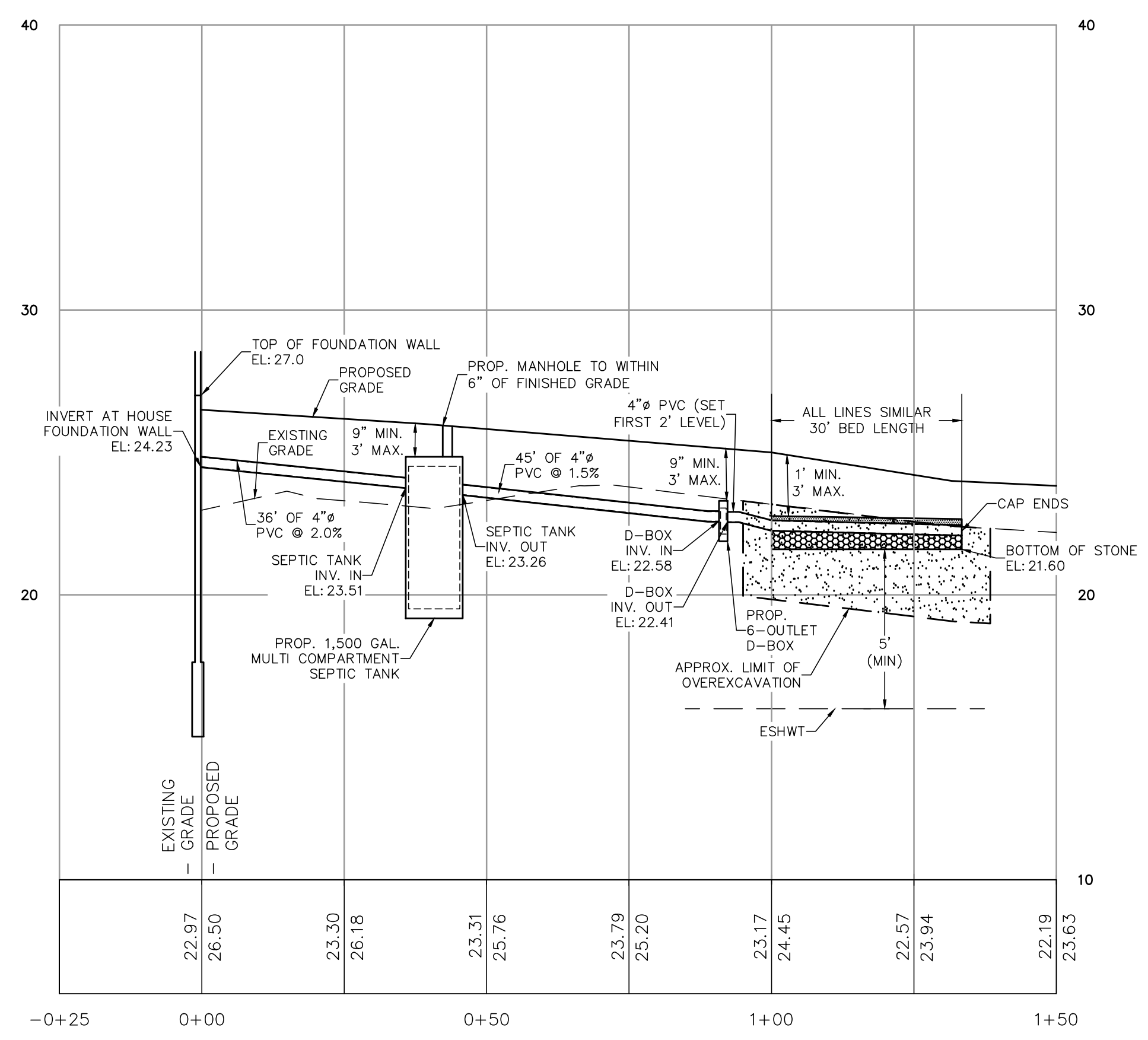
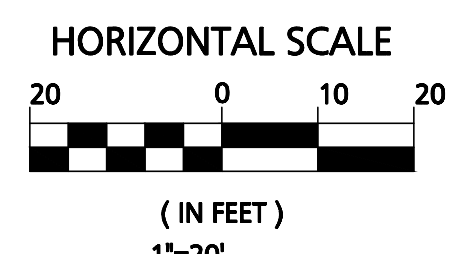
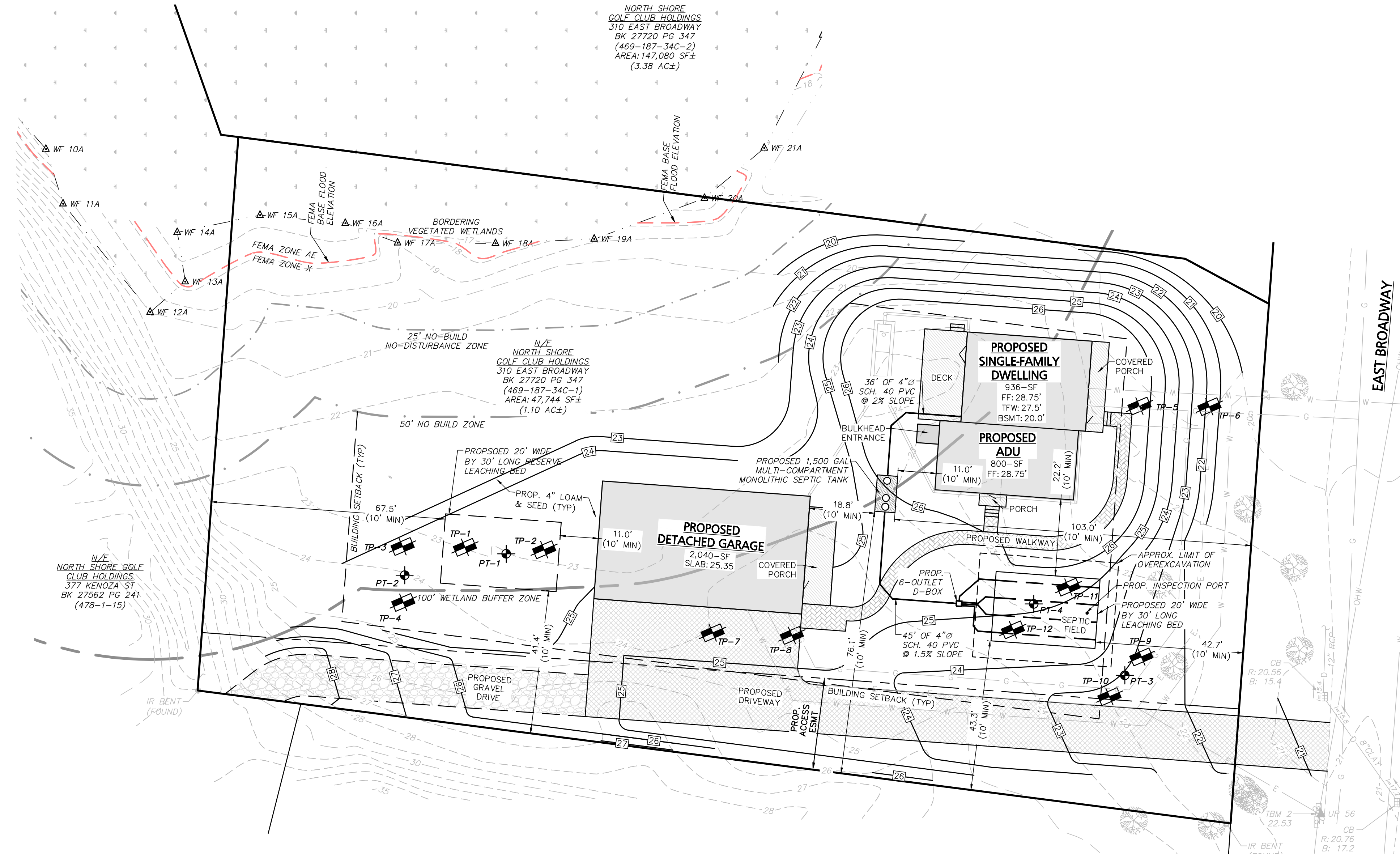
SAS SIZING (CLASS I SOIL LOADING RATE)	RES.
- REQUIRED:	440-GALLONS / 0.74 GPD/SF: 595-SF
- PROVIDED:	20'W x 6'D x 30'L: 600-SF
- RESERVE:	20'W x 6'D x 30'L: 600-SF

PIPE SCHEDULE:
ALL PIPING SHALL BE TIGHT JOINT PIPING TO CONSIST OF POLYVINYL CHLORIDE (P.V.C.) SCHEDULE 40, UNLESS OTHERWISE NOTED.

FOUNDATION WALL TO SEPTIC TANK: 36" OF 4" (SCH-40) @ 2%
SEPTIC TANK TO D-BOX: 45" OF 4" (SCH-40) @ 1.5%

CRITICAL SYSTEM ELEVATIONS:

TOP OF FOUNDATION WALL:	27.00
INVERT AT HOUSE FOUNDATION WALL:	24.23
SEPTIC TANK INVERT (IN):	23.51
SEPTIC TANK INVERT (OUT):	23.26
D-BOX INVERT (IN):	22.58
D-BOX INVERT (OUT):	22.41
TOP OF PEASTONE:	22.75
PIPE INV. BEGIN:	22.25
PIPE INV. END:	22.10
BOTTOM OF STONE:	21.60
DESIGN ESHGW:	16.60



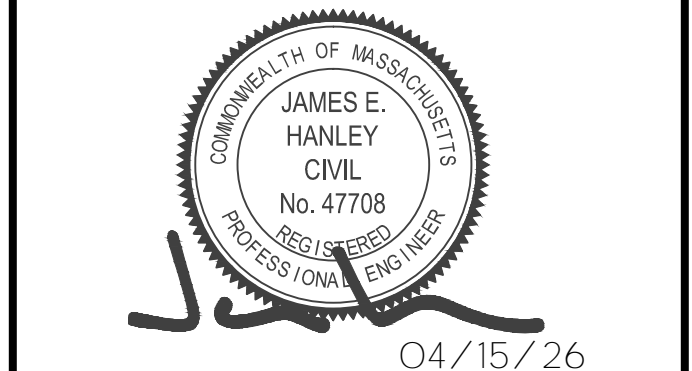
PROFILE (ALL LINES SIMILAR)
HORIZONTAL: 1"=20'
VERTICAL: 1"=4'

DATE	DESCRIPTION
04/15/2026	CONSERVATION COMMENT REVISIONS

APPLICANT:
MITCHELL MESSER
39 LAZARUS WAY
SALEM, NH 03079

PROJECT:
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PROFESSIONAL ENGINEER FOR CIVIL DESIGN
CONSULTANTS, INC.

CIVIL DESIGN
CONSULTANTS, INC.
344 North Main Street | Andover, MA 01810
(978) 416-0920 | www.civildesign.com

DRAWING TITLE:
SEWAGE DISPOSAL PLAN

DRAWING #:

C-4

GENERAL EROSION CONTROL NOTES:

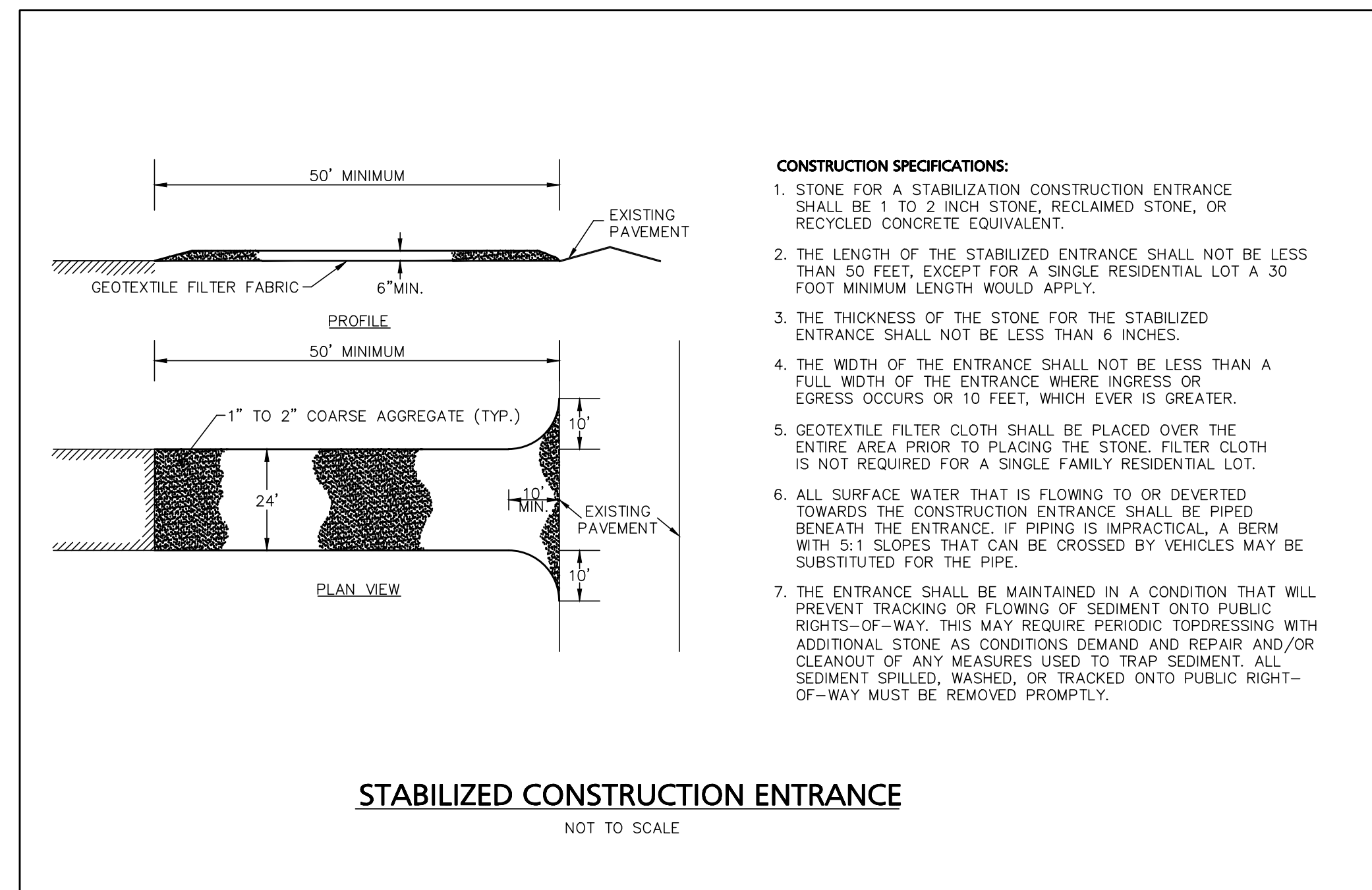
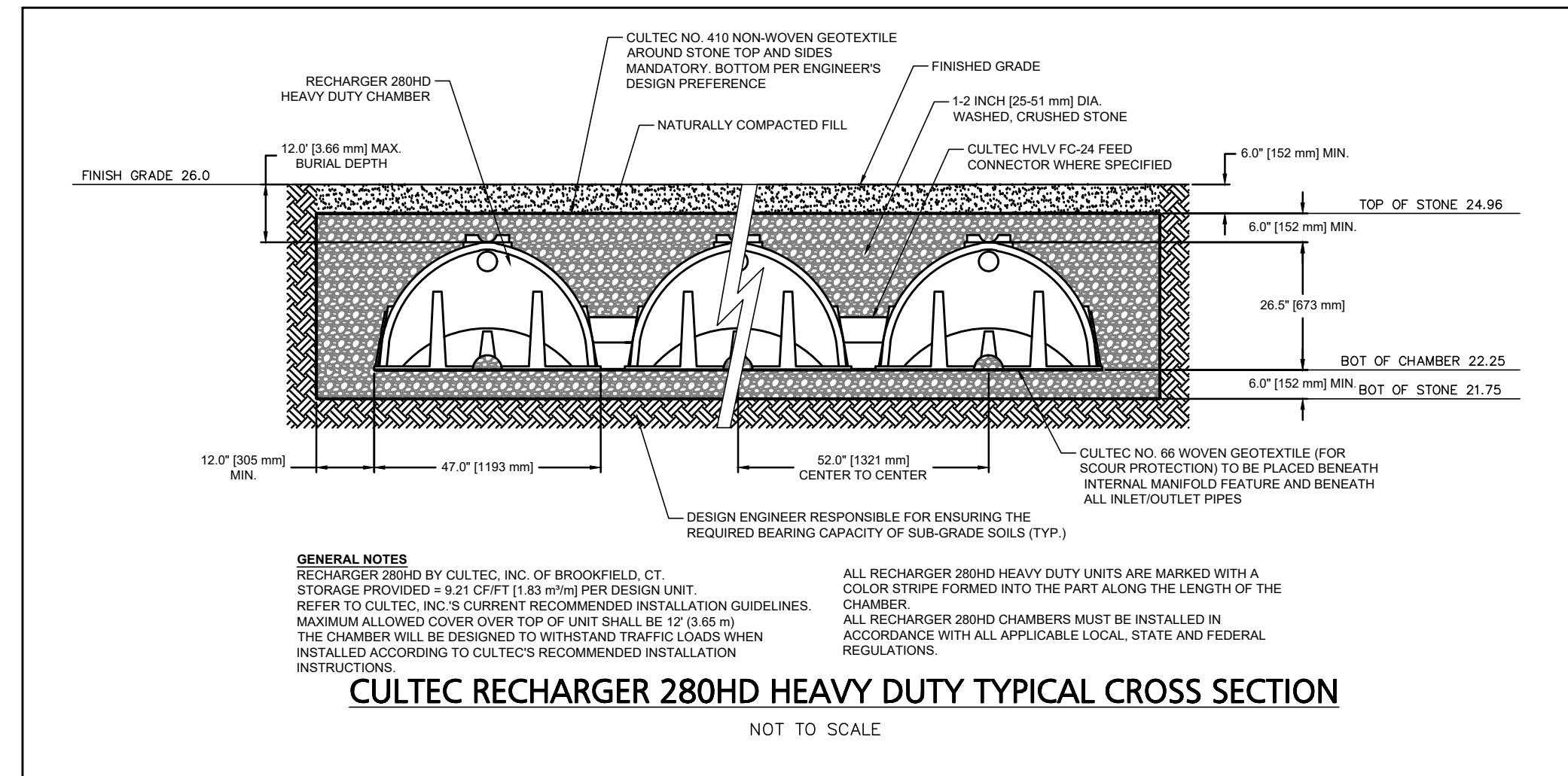
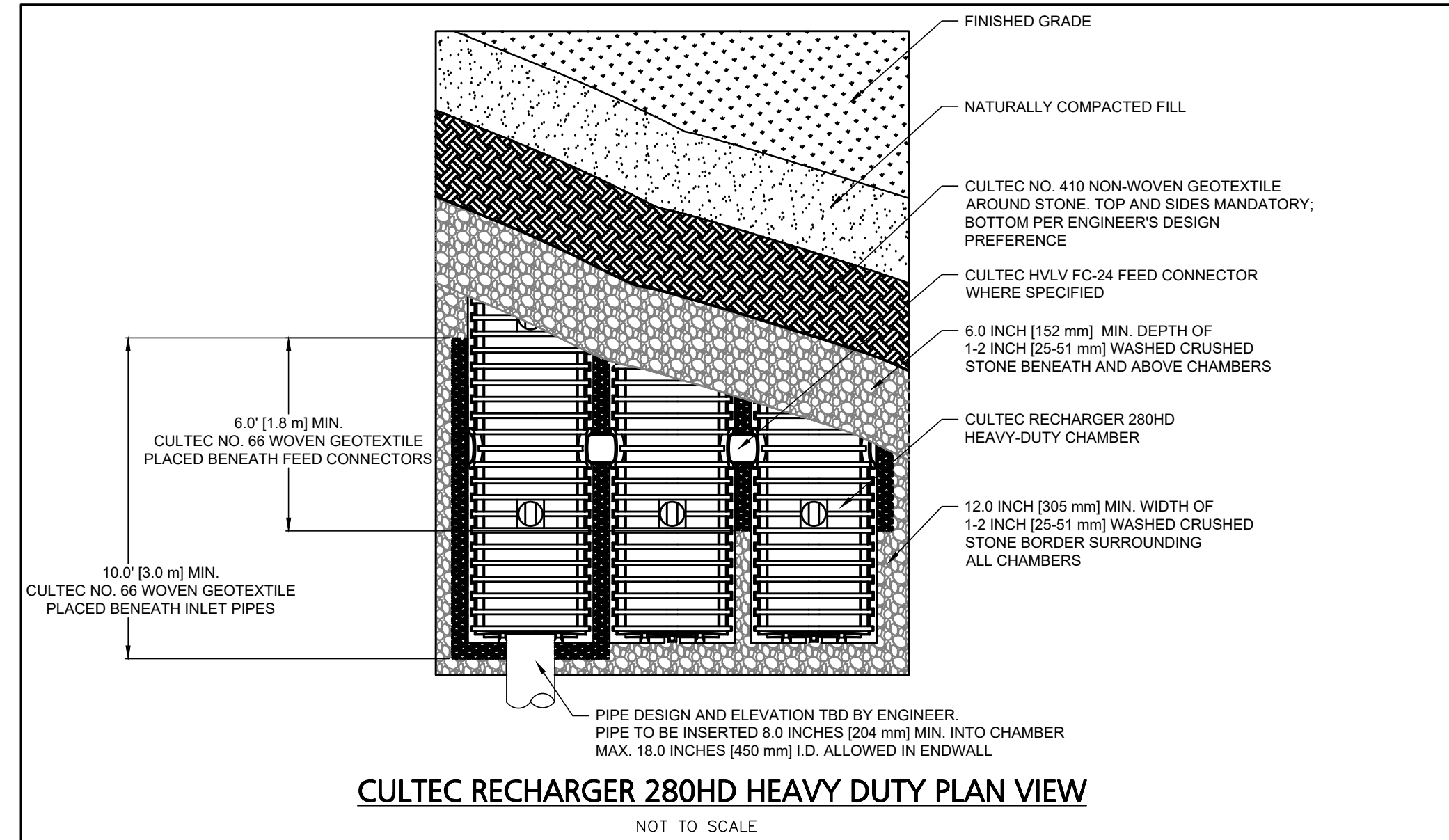
- PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENT CONTROL DEVICE AS SHOWN ON THE PLAN. ALL EROSION CONTROL DEVICES SHALL BE MAINTAINED IN EFFECTIVE CONDITION DURING CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE TIMELY INSTALLATION, INSPECTION, MAINTENANCE, AND/OR REPLACEMENT OF ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES TO ENSURE PROPER OPERATION THROUGHOUT THE LIFE OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF PERMANENT MEASURES UNTIL CONSTRUCTION OF THE PROJECT IS COMPLETED OR UNTIL IT IS ACCEPTED BY THE OWNER. THE OWNER IS RESPONSIBLE THEREAFTER.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DUST ROADS, CONTROL DUST, AND TAKE ALL NECESSARY MEASURES TO ENSURE THAT THE SITE AND ALL ROADS BE MAINTAINED IN A MUD AND DUST-FREE CONDITION AT ALL TIMES THROUGHOUT THE LIFE OF THE CONTRACT. DUST CONTROL SHALL INCLUDE, BUT IS NOT LIMITED TO, WATER, CALCIUM CHLORIDE, AND/OR CRUSHED STONE OR COARSE GRAVEL.
- ALL PROPOSED CONSTRUCTION ENTRANCES SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS AND DETAILS. ALL VEHICLE TRAFFIC ENTERING OR EXITING THE WORK AREA SHALL PASS OVER THE CONSTRUCTION ENTRANCES TO REDUCE THE TRACKING OR FLOWING OF SEDIMENT ONTO THE SURROUNDING ROADWAYS.
- THE CONTRACTOR SHALL INSTALL ALL PERIMETER SEDIMENT CONTROL BARRIERS AS SHOWN ON THE SITE DEVELOPMENT PLANS. SILT FENCE SHALL ALSO BE INSTALLED AROUND ANY SOIL STOCKPILE AREAS.
- THE CONTRACTOR SHALL RESTORE DISTURBED AREAS AS CLOSELY AS POSSIBLE. AREAS DAMAGED DURING CONSTRUCTION SHALL BE RESEEDDED, RESEEDDED, OR OTHERWISE RESTORED TO THEIR ORIGINAL STATE. TREES AND OTHER EXISTING VEGETATION SHALL BE RETAINED WHEREVER FEASIBLE.
- TEMPORARY VEGETATIVE COVER SHALL BE APPLIED TO ANY DISTURBED AREAS (INCLUDING SOIL STOCKPILE AREAS) THAT HAVE NOT YET REACHED FINISHED GRADE AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY CEASED, UNLESS THE ACTIVITY IS TO RESUME WITHIN TWENTY-ONE (21) DAYS. THE RECOMMENDED TEMPORARY SEEDING DATES ARE MARCH 1 TO JUNE 15 AND AUGUST 15 TO OCTOBER 1.
- PERMANENT VEGETATIVE COVER SHALL BE APPLIED TO ALL DISTURBED AREAS THAT HAVE REACHED FINISHED GRADE AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS PERMANENTLY CEASED. THE RECOMMENDED PERMANENT SEEDING DATES ARE APRIL 1 TO JUNE 15 AND AUGUST 15 TO OCTOBER 1.
- AREAS WHICH HAVE BEEN TEMPORARILY OR PERMANENTLY SEEDING SHOULD BE MULCHED IMMEDIATELY FOLLOWING SEEDING IN ADDITION TO AREAS WHICH CANNOT BE SEEDING WITHIN THE RECOMMENDED SEEDING DATES AND ANY SOIL STOCKPILE AREAS. TEMPORARY MULCHING SHOULD BE PERFORMED AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY CEASED UNLESS THE ACTIVITY IS TO RESUME WITHIN TWENTY-ONE (21) DAYS.
- STRAW OR HAY MULCH, WOOD FIBER MULCH, AND HYDROMULCH ARE RECOMMENDED. THE MATERIALS USED IN MULCHING SHALL CONFORM TO THE REQUIREMENTS LISTED IN SECTION M6.04.0 OF THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGES.
- IF SEEDING CANNOT BE COMPLETED IMMEDIATELY OR WITHIN THE RECOMMENDED SEEDING DATES, USE THE TEMPORARY MULCHING MEASURE TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.
- ANY EXISTING OR PROPOSED CATCH BASINS THAT MAY BE SUBJECT TO SEDIMENTATION PROCESSES SHALL HAVE SILT SACKS INSTALLED TO PREVENT SEDIMENT FROM ENTERING THE PROPOSED STORM DRAINAGE SYSTEM PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED SITE. THE PROPER INLET PROTECTION DEVICES SHALL BE INSTALLED WHERE STORM DRAIN INLETS ARE TO BE MADE OPERATIONAL BEFORE PERMANENT STABILIZATION OF ANY DISTURBED DRAINAGE AREA.
- ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN ACCORDANCE WITH THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGES AND VOLUME TWO OF THE MASSACHUSETTS STORM WATER MANAGEMENT HANDBOOK.
- WASTE DISPOSAL: MATERIALS WHICH COULD BE A POTENTIAL SOURCE OF STORM WATER POLLUTION SUCH AS GASOLINE, DIESEL FUEL, HYDRAULIC OIL, ETC., SHALL BE STORED AT THE END OF EACH DAY IN A STORAGE TRAILER OR COVERED LOCATION AND TAKEN OFF-SITE AND PROPERLY DISPOSED OF. ALL TYPES OF WASTE GENERATED AT THIS SITE SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH STATE LAW AND/OR REGULATIONS.
- GOOD HOUSEKEEPING: THE PROJECT SITE SHALL PROVIDE FOR THE MINIMIZATION OF EXPOSURE OF CONSTRUCTION DEBRIS (INCLUDING, BUT NOT LIMITED TO, INSULATION, WIRING, PAINTS AND PAINT CANS, SOLVENTS, WALL BOARD, ETC.) TO PRECIPITATION BY MEANS OF DISPOSAL AND/OR PROPER SHELTER OR COVER. IN ADDITION, CONSTRUCTION WASTE MUST BE PROPERLY DISPOSED OF IN ORDER TO AVOID EXPOSURE TO PRECIPITATION AT THE END OF EACH WORKING DAY.
- NO DUST WILL BE ALLOWED ON OR OFF WORK SITE. CONTRACTOR MUST CONDUCT CONTINUOUS EFFORT TO CONTROL DUST. LACK OF DUST CONTROL COULD CAUSE THE PROJECT TO BE STOPPED UNTIL ISSUES ARE RESOLVED.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTROL DUST AND TAKE ALL NECESSARY MEASURES TO ENSURE ALL ROADS ARE MAINTAINED IN A DUST FREE CONDITION AT ALL TIMES THROUGHOUT THE LIFE OF THE CONTRACT. REPETITIVE TREATMENTS SHOULD BE APPLIED AS NECESSARY.
- REPAIRS OR REPLACEMENT OF DRAINAGE STRUCTURES, RIP RAP CHANNELS, OR OTHER ELEMENTS OF THE FACILITY SHOULD BE DONE WITHIN 14 DAYS OF DEFICIENCY REPORTS. IF AN EMERGENCY SITUATION IS IMMINENT THEN REPAIR/REPLACEMENT MUST BE DONE IMMEDIATELY TO AVERT FAILURE OR DANGER TO NEARBY RESIDENTS.
- IMMEDIATELY PRIOR TO THE END OF CONSTRUCTION OR ACCEPTANCE BY THE OWNER, THE CONTRACTOR SHALL INSPECT ALL ON-SITE STORMWATER MANAGEMENT FACILITIES AND CLEAN AND FLUSH AS NECESSARY.
- THE GENERAL CONTRACTOR OR NOMINEE WILL BE THE PARTY RESPONSIBLE FOR THE INSPECTION, MAINTENANCE, AND REQUIRED DOCUMENTATION OF ALL STORM WATER STRUCTURES AS OUTLINED WITHIN.

GENERAL UTILITY CONSTRUCTION NOTES:

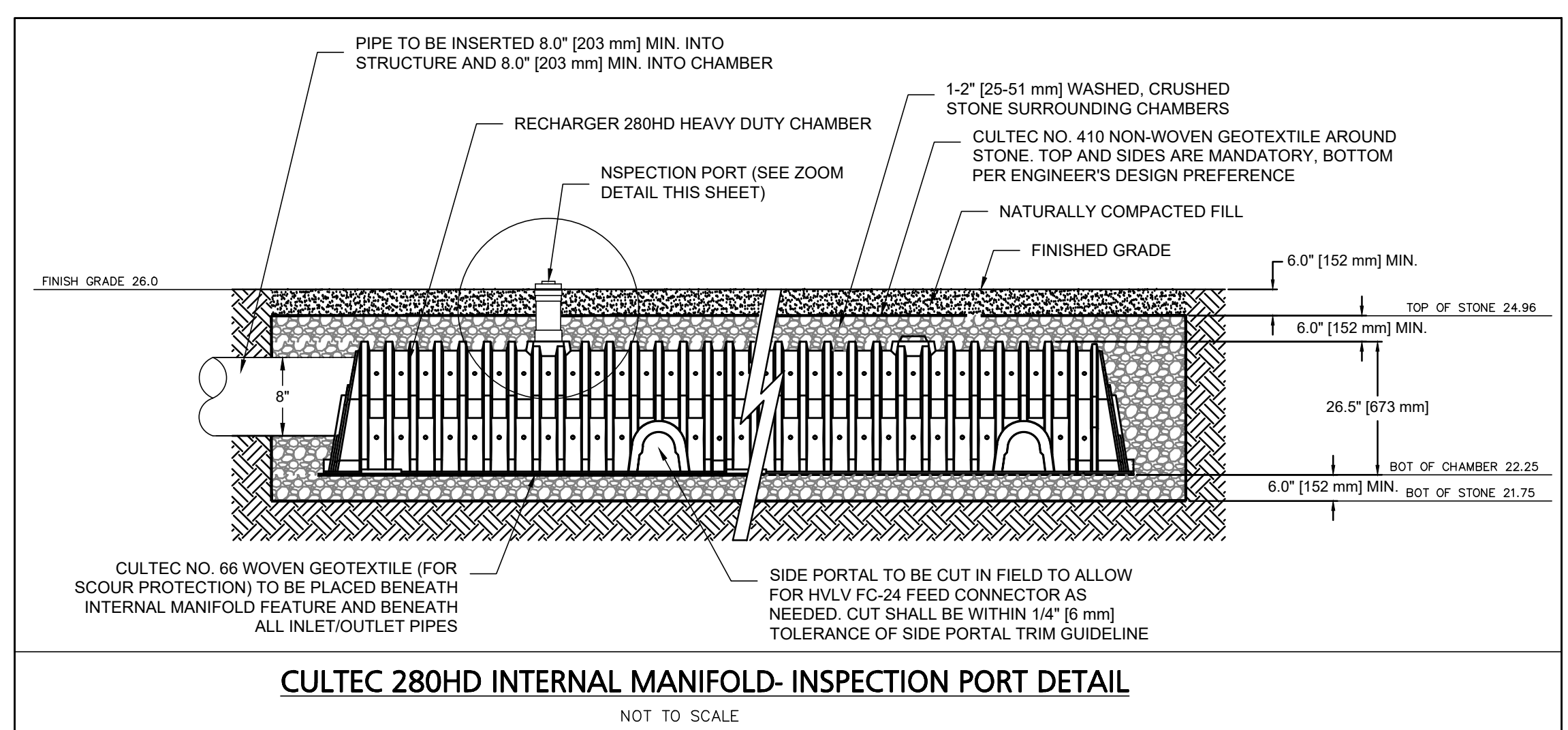
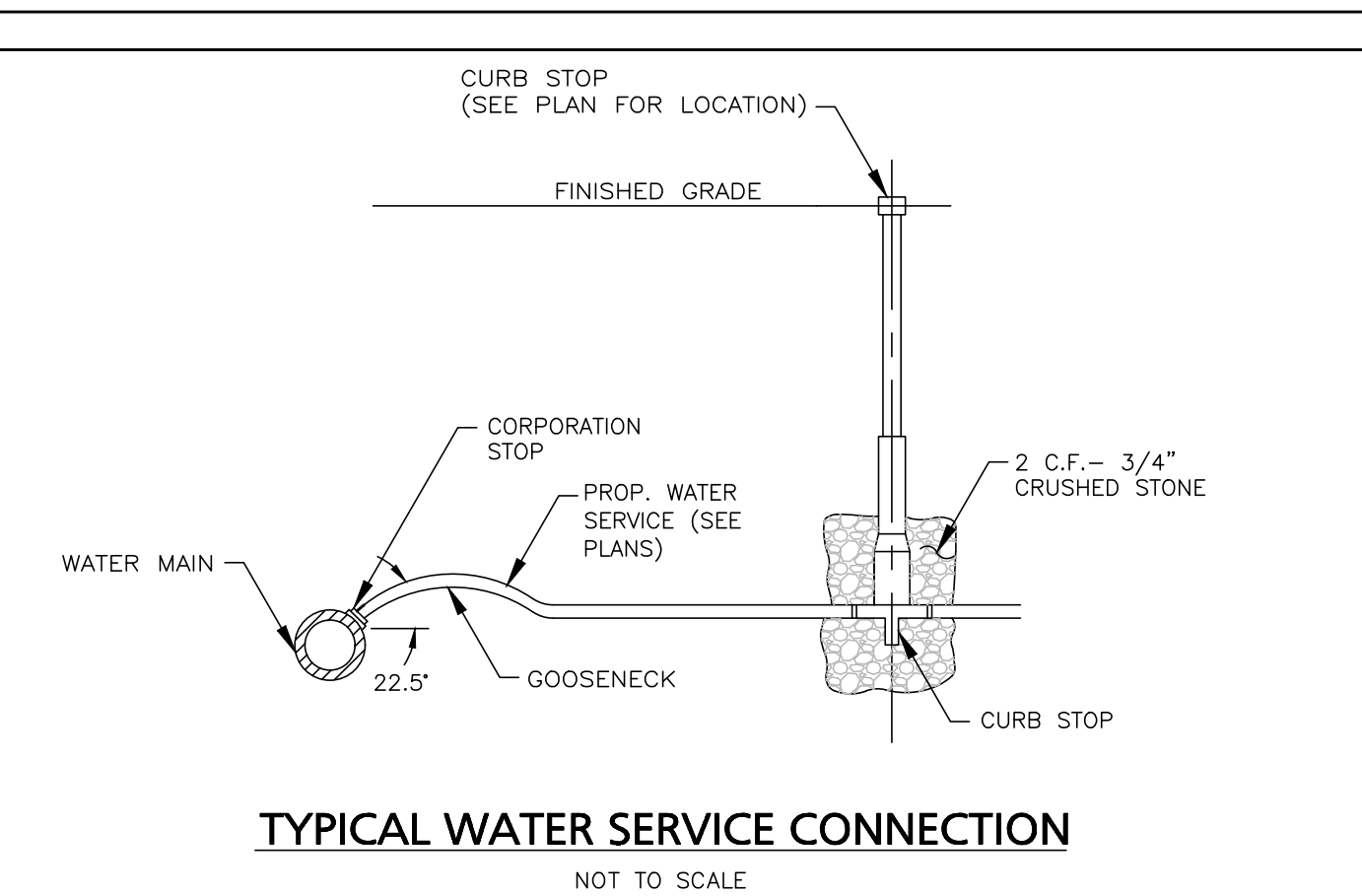
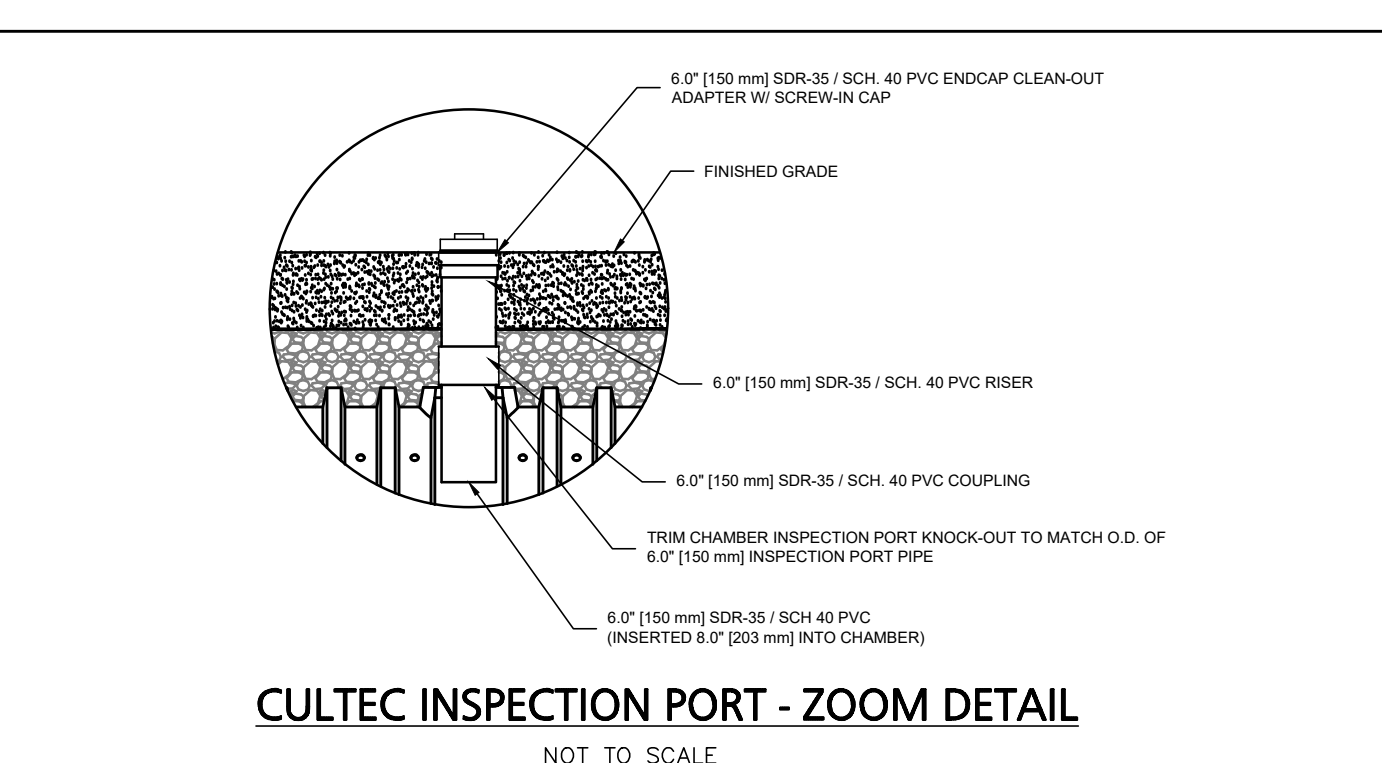
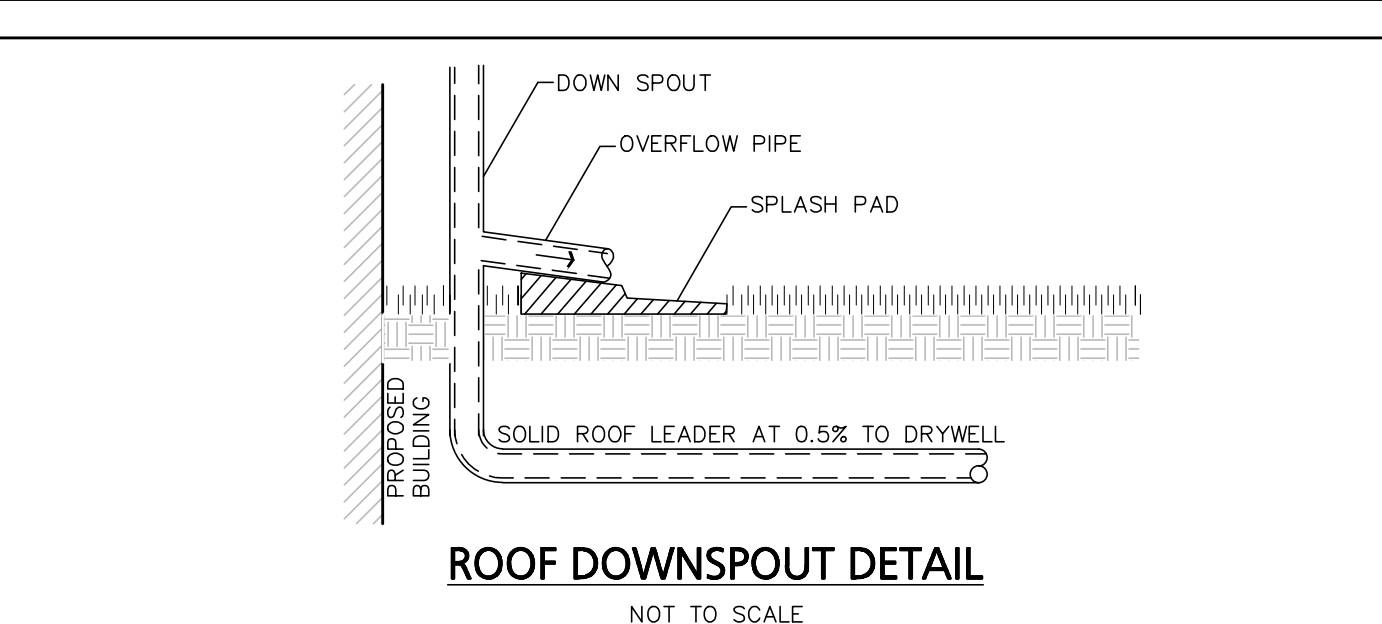
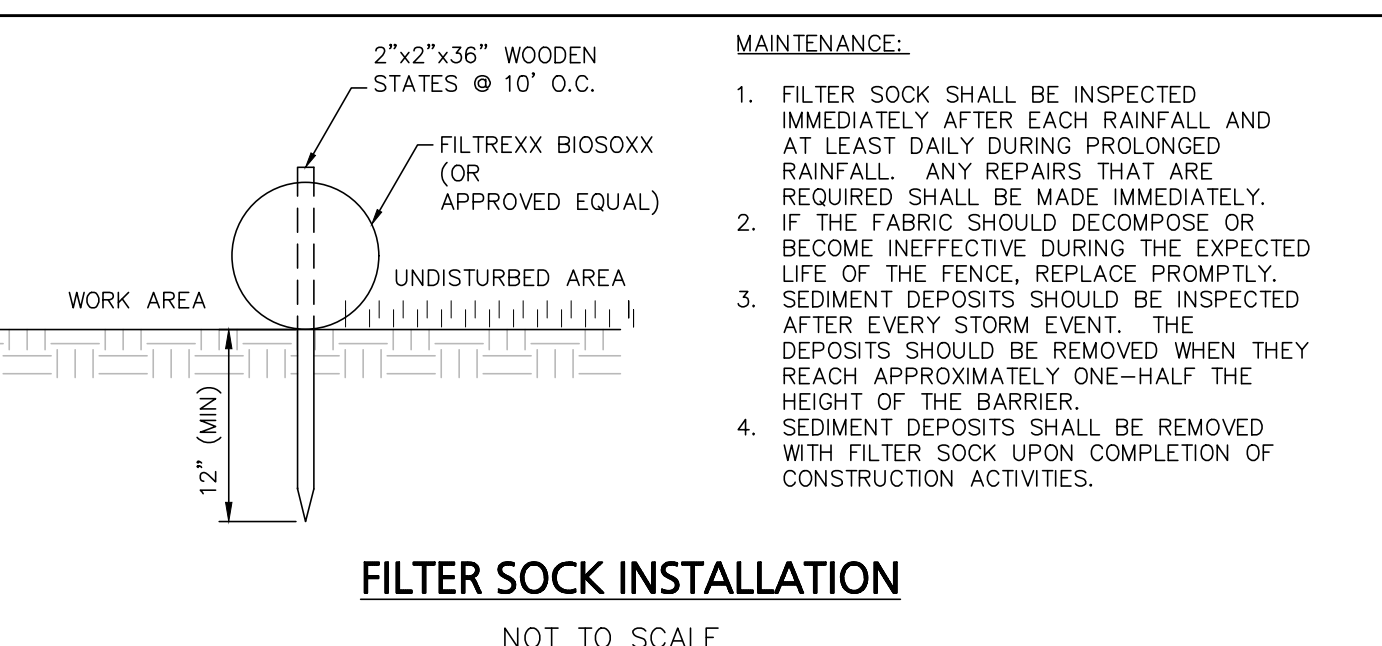
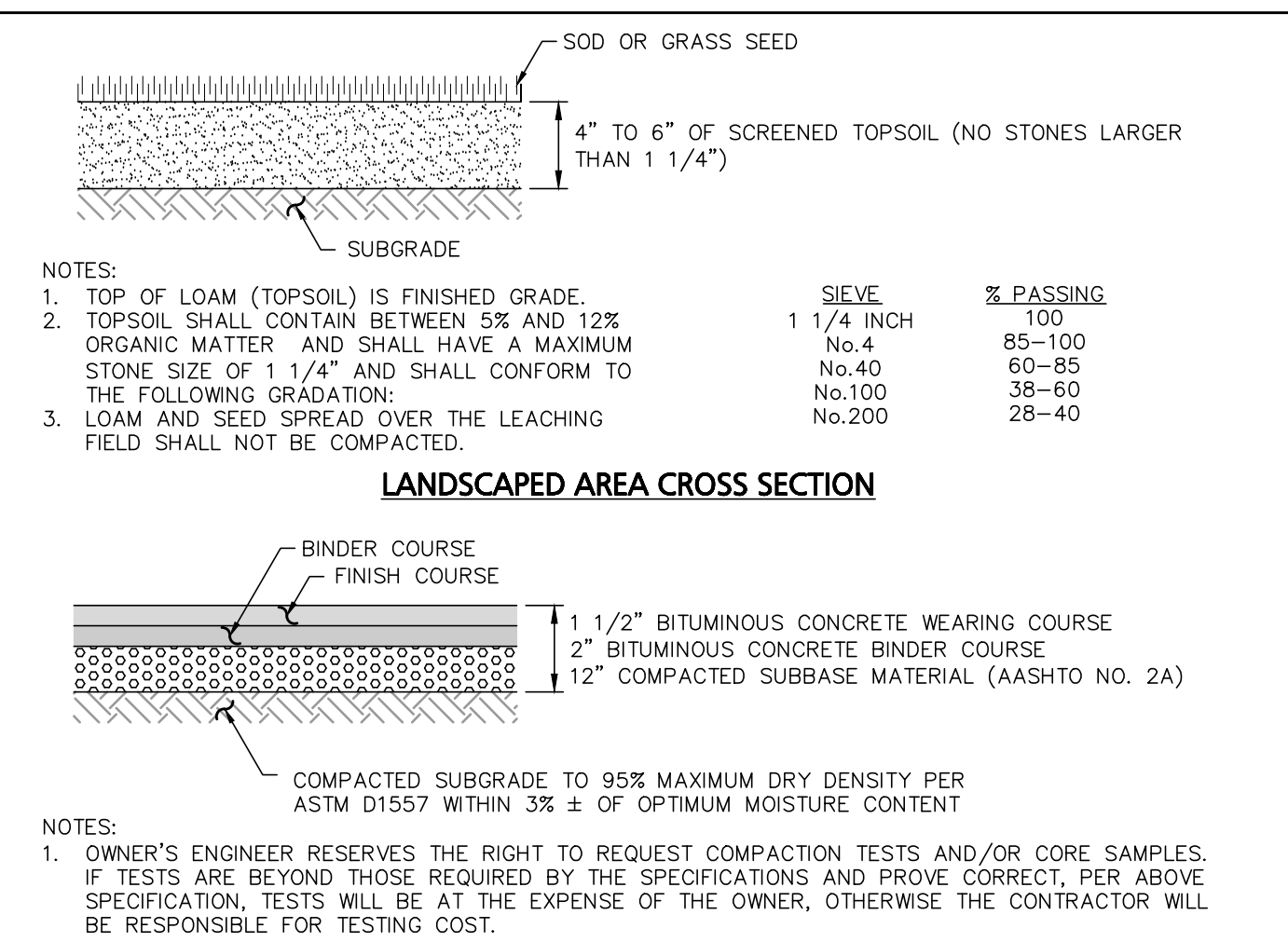
- THE CONTRACTOR SHALL VERIFY THE PROPOSED LAYOUT WITH ITS RELATIONSHIP TO THE EXISTING SITE SURVEY. THE CONTRACTOR SHALL ALSO VERIFY ALL DIMENSIONS, SITE CONDITION, AND MATERIAL SPECIFICATIONS AND SHALL NOTIFY THE OWNER AND ENGINEER OF ANY ERRORS, OMISSIONS OR DISCREPANCIES BEFORE COMMENCING OR PROCEEDING WITH CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, INSPECTIONS, BONDS, ETC. AND OTHER APPROVAL RELATED ITEMS. NO CONSTRUCTION SHALL COMMENCE UNTIL SUCH PERMITS HAVE BEEN SECURED.
- METHODS AND MATERIALS USED IN THE CONSTRUCTION OF IMPROVEMENTS FOR THIS PROJECT SHALL CONFORM TO THE CURRENT CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE MASSDOT AND THE LOCAL REGULATIONS.
- CONTRACTOR TO CONFIRM AND VERIFY THE VALIDITY, LOCATION, MATERIAL, AND AVAILABILITY TO USE EXISTING UTILITIES ON OR NEAR THE PROJECT SITE PROPERTY. CONTRACTOR TO LOCATE EXISTING UTILITIES AND CONFIRM SAID UTILITIES WITH ALL APPLICABLE MUNICIPALITIES AND UTILITY COMPANIES PRIOR TO ANY CONSTRUCTION. ONCE UTILITIES HAVE BEEN CONFIRMED IN THE FIELD BY CONTRACTOR AND VERIFIED BY APPLICABLE MUNICIPALITY AND UTILITY COMPANY AND CONNECTION HAS BEEN APPROVED BY ENTITY, ONLY THEN SHALL THE CONTRACTOR CONSTRUCT AND UTILIZE THESE UTILITIES. CONTRACTOR TO IMMEDIATELY INFORM THE ENGINEER OF RECORD OF ANY DEVIATIONS TO PLANS.
- THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE ANY EXISTING UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF NECESSARY. THE EXISTENCE AND/OR LOCATION OF UTILITIES SHOWN ON THESE PLANS MAY BE ONLY APPROXIMATELY CORRECT AND THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN HEREON AND ANY OTHER EXISTING UTILITIES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, AT HIS EXPENSE, ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY OPERATORS WHO MAINTAIN UNDERGROUND UTILITY LINES IN THE AREA OF PROPOSED EXCAVATION AT LEAST THREE WORKING DAYS, BUT NOT MORE THAN TEN WORKING DAYS, PRIOR TO COMMENCEMENT OF EXCAVATION OR DEMOLITION. ALL WATER, GAS, SEWER AND OTHER UTILITIES SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
- RELOCATION OF ANY UTILITIES SHALL BE AT THE OWNERS EXPENSE AND COMPLETED WITH THE UTILITY WORK. THE OWNER SHALL BE NOTIFIED AS TO THE RELOCATIONS REQUIRED PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING, WITH MATCHING MATERIALS, ANY PAVEMENT, WALKS, CURBS, ETC. THAT MUST BE CUT OR THAT ARE DAMAGED DURING CONSTRUCTION.
- AN APPROVED SET OF PLANS AND ALL APPLICABLE PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THESE DOCUMENTS AND SUBSEQUENT ISSUED PLAN REVISIONS. ANY DEVIATIONS FROM THESE DOCUMENTS SHALL REQUIRE NOTIFICATION TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF CONSTRUCTING ANY CHANGE. THE CONTRACTOR WILL BE WORKING AT HIS OR HER OWN RISK.

GENERAL UTILITY NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCHMARKS NECESSARY FOR THE WORK.
- ALL DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
- A DUST EMISSION CONTROL PLAN SHALL BE DEVELOPED AND IMPLEMENTED BY THE CONTRACTOR IF CONDITIONS WARRANT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL UTILITIES AS SHOWN ON THESE PLANS IN ACCORDANCE WITH THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS. ALL UTILITY CONSTRUCTION SHALL CONFORM TO THE APPROPRIATE UTILITY COMPANY STANDARDS FOR CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING SPECIFICATIONS OF MATERIALS AND INSTALLATION PROCEDURES AND INSTALL IN ACCORDANCE WITH APPLICABLE REGULATIONS.
- THE CONTRACTOR IS RESPONSIBLE TO CONTACT AND DETERMINE, COORDINATE AND SCHEDULE ALL NECESSARY INSPECTIONS AND MONITORING WITH ALL APPROPRIATE UTILITY COMPANIES.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ANY PERMITS AND/OR CONNECTION FEES REQUIRED TO PERFORM THE WORK.
- ALL ELEVATIONS SHOWN ARE IN REFERENCE TO THE PROJECT BENCHMARK AND MUST BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE RESTORATION AND CLEAN UP UPON COMPLETION OF THE PROJECT.
- CONTRACTOR TO COORDINATE ALL BUILDING PENETRATIONS AND ROOF LEADER LOCATIONS WITH ARCHITECTURAL DOCUMENTS PRIOR TO CONSTRUCTION.



- CONSTRUCTION SPECIFICATIONS:**
- STONE FOR A STABILIZATION CONSTRUCTION ENTRANCE SHALL BE 1 TO 2 INCH STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
 - THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET, EXCEPT FOR A SINGLE RESIDENTIAL LOT A 30 FOOT MINIMUM LENGTH WOULD APPLY.
 - THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.
 - THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN A FULL WIDTH OF THE ENTRANCE WHERE INGRESS OR EGRESS OCCURS OR 10 FEET, WHICHEVER IS GREATER.
 - GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE. FILTER CLOTH IS NOT REQUIRED FOR A SINGLE FAMILY RESIDENTIAL LOT.
 - ALL SURFACE WATER THAT IS FLOWING TO OR DEVERTED TOWARDS THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
 - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED PROMPTLY.

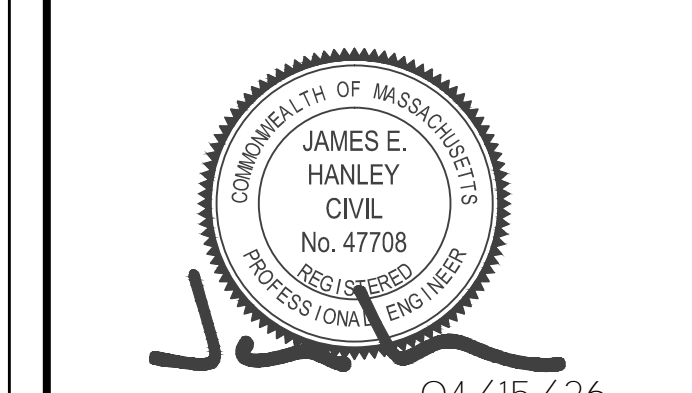


DATE	DESCRIPTION
REVISIONS	

APPLICANT:
MITCHELL MESSER
39 LAZARUS WAY
SALEM, NH 03079

PROJECT:
310 EAST BROADWAY
HAVERHILL, MA 01830

DATE ISSUED:	FEBRUARY 05, 2026
PROJECT #:	25-10802
PREPARED BY:	KC



PROFESSIONAL ENGINEER FOR CIVIL DESIGN CONSULTANTS, INC.

CIVIL DESIGN
CONSULTANTS, INC.
344 North Main Street | Andover, MA 01860
(978) 416-0920 | www.civildco.com

DRAWING TITLE:
CONSTRUCTION DETAILS

DRAWING #:
D-1

CONSTRUCTION NOTES:

- ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO MASSACHUSETTS ENVIRONMENTAL CODE (310 CMR 15.00, TITLE 5) AND THE LOCAL BOARD OF HEALTH.
- SYSTEM TO BE INSTALLED IN ACCORDANCE WITH THE PROCEDURES AND SPECIFICATIONS DESCRIBED IN THE TITLE 5, 310 CMR 15.00, THE STATE ENVIRONMENTAL CODE AS WELL AS THE LOCAL BOARD OF HEALTH REGULATIONS.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THIS PLAN IS BASED ON RECORDS OF VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE.
- THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY, AND "DIGSAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF UTILITIES PRIOR TO CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION TAKEN BEFORE PROCEEDING WITH THE WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLAN.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL HORIZONTAL AND VERTICAL CONTROL OF ALL SYSTEM COMPONENTS.
- ALL ELEVATIONS AND GRADES ARE TO BE SET FROM THE TEMPORARY BENCH MARK (TBM) AS ILLUSTRATED ON THE PLAN.
- NO DRAINS, HOT TUBS, SAUNAS, GARBAGE DISPOSALS ETC. SHALL BE INCORPORATED INTO THIS SYSTEM.
- ANY PIPING WITHIN TEN FEET OF THE BUILDING SHALL BE INSTALLED BY A PLUMBER LICENSED IN THE COMMONWEALTH OF MASSACHUSETTS IN COMPLIANCE WITH THE STATE BUILDING AND PLUMBING CODE.
- REMOVE ALL TOPSOIL, TREES, BUSHES, BOULDERS, AND DEBRIS FROM BENEATH THE S.A.S., FILL EXTENSION AND 3:1 SIDE SLOPES.
- WHERE FILL IS REQUIRED TO REPLACE UNSUITABLE SOILS, THE EXCAVATION OF THE UNSUITABLE MATERIAL SHALL EXTEND A MINIMUM OF FIVE FEET LATEROALLY IN ALL DIRECTIONS BEYOND THE OUTER PERIMETER OF THE SOIL ABSORPTION SYSTEM TO THE DEPTH OF NATURALLY OCCURRING PERVIOUS MATERIAL, OR AS DIRECTED BY THE ENGINEER OR APPROVING AUTHORITY, AS REQUIRED BY 310 CMR 15.240 AND REPLACED WITH FILL MATERIAL (SEE CONSTRUCTION NOTE 11).
- FILL MATERIAL FOR SYSTEMS CONSTRUCTED IN FILL SHALL CONSIST OF SELECT ON-SITE OR IMPORTED SOIL MATERIAL. THE FILL SHALL BE COMPRISED OF CLEAN GRANULAR SAND, BE FREE FROM ORGANIC MATTER AND DELETERIOUS SUBSTANCES, AND SHALL NOT CONTAIN REMEDIATION WASTE AS THAT TERM IS DEFINED IN 310 CMR 40.0000. MIXTURES AND LAYERS OF DIFFERENT CLASSES OF SOIL SHALL NOT BE USED. THE FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN TWO INCHES. A SIEVE ANALYSIS, USING A #4 SIEVE, SHALL BE PERFORMED ON A REPRESENTATIVE SAMPLE OF THE FILL, UP TO 45% BY WEIGHT OF THE FILL SAMPLE MAY BE RETAINED ON THE #4 SIEVE. SIEVE ANALYSES ALSO SHALL BE PERFORMED ON THE FRACTION OF THE FILL SAMPLE PASSING THE #4 SIEVE, SUCH ANALYSES MUST DEMONSTRATE THAT THE MATERIAL MEETS EACH OF THE FOLLOWING SPECIFICATIONS:

GENERAL NOTES:

- THIS SEPTIC DESIGN HAS BEEN PREPARED FOR THE CONSTRUCTION OF A 4 BEDROOM DWELLING AND SEWAGE DISPOSAL SYSTEM LOCATED AT 310 EAST BROADWAY IN HAVERHILL, MA IN COMPLIANCE WITH 310 CMR 15.00 AND THE RULES AND REGULATIONS OF THE HAVERHILL BOARD OF HEALTH.
- ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO MASSACHUSETTS ENVIRONMENTAL CODE (310 CMR 15.00, TITLE 5), AND THE HAVERHILL BOARD OF HEALTH.
- THERE SHALL BE NO CHANGES MADE IN THIS PLAN WITHOUT THE WRITTEN PERMISSION OF THE HAVERHILL BOARD OF HEALTH AND THE DESIGN ENGINEER.
- ALL ERRORS, OMISSIONS, AND CHANGE OF CONDITIONS AT THE SITE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- THIS PLAN HAS BEEN PREPARED SPECIFICALLY AS A SEPTIC SYSTEM DESIGN AND IS NOT TO BE USED TO ESTABLISH PROPERTY LINES OR BUILDING SETBACKS. PROPERTY LINES AND BUILDING LOCATIONS ARE GRAPHIC ONLY. NO REPRESENTATION OR CERTIFICATION AS TO THE ACCURACY OF THOSE SHOWN IS IMPLIED OR INTENDED.
- THIS SYSTEM HAS BEEN DESIGNED IN CONFORMANCE WITH THE HAVERHILL BOARD OF HEALTH REGULATIONS AND THE REQUIREMENTS OF TITLE 5, 310 CMR 15.000. NO GUARANTEE OF PERFORMANCE IS EXPRESSED OR IMPLIED.
- TEST HOLE INFORMATION SHOWN HEREON IS LIMITED TO SOIL CONDITIONS FOUND AT THAT PARTICULAR TEST HOLE LOCATIONS AND IS NOT CONSIDERED OR IMPLIED OR EXPRESSED WARRANTY OF SOIL CONDITIONS BEYOND LIMITS OF SUCH TEST HOLES.
- ALL KNOWN WELLS WITHIN 150' OF THE PROPOSED LEACHING AREA ARE INDICATED ON THE PLAN.
- THE PROPOSED SYSTEM IS NOT DESIGNED FOR THE USE OR INSTALLATION OF A GARBAGE GRINDER.
- MAGNETIC MARKING TAPE TO BE INSTALLED OVER ALL SYSTEM COMPONENTS PER 310 CMR 15.221(12).
- BUILDING SEWER TO HAVE WATERTIGHT JOINTS, TO BE LAID ON A COMPACTED AND FIRM BASE, AND IN A CONTINUOUS GRADE ON A STRAIGHT LINE PER 310 CMR 15.222.
- 2-INCH RIGID FOAMBOARD INSULATION (R-12 INSULATING VALUE) TO BE INSTALLED OVER UPPER HALF OF PROCESSOR, AIR AND WATER LINES.

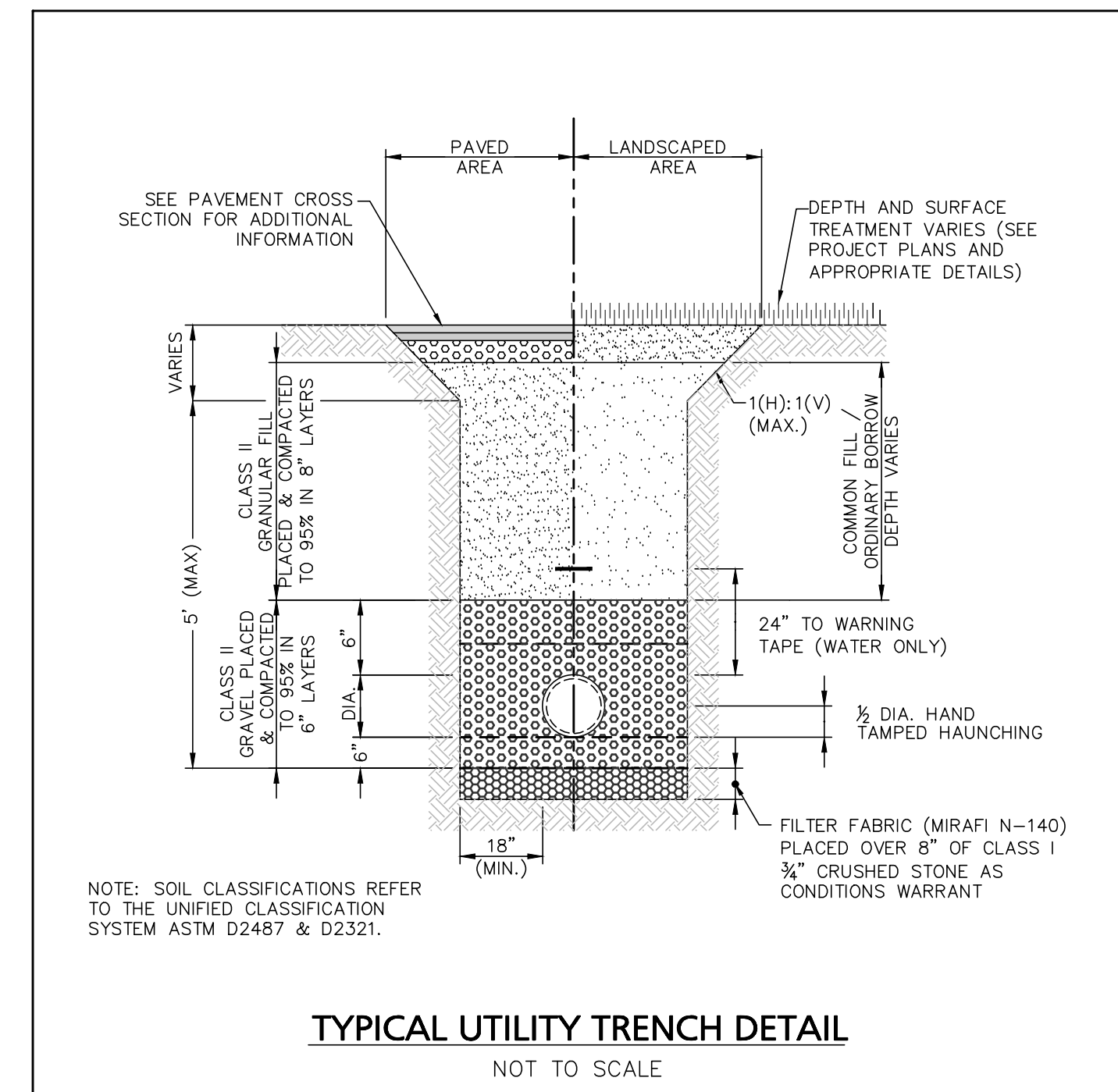
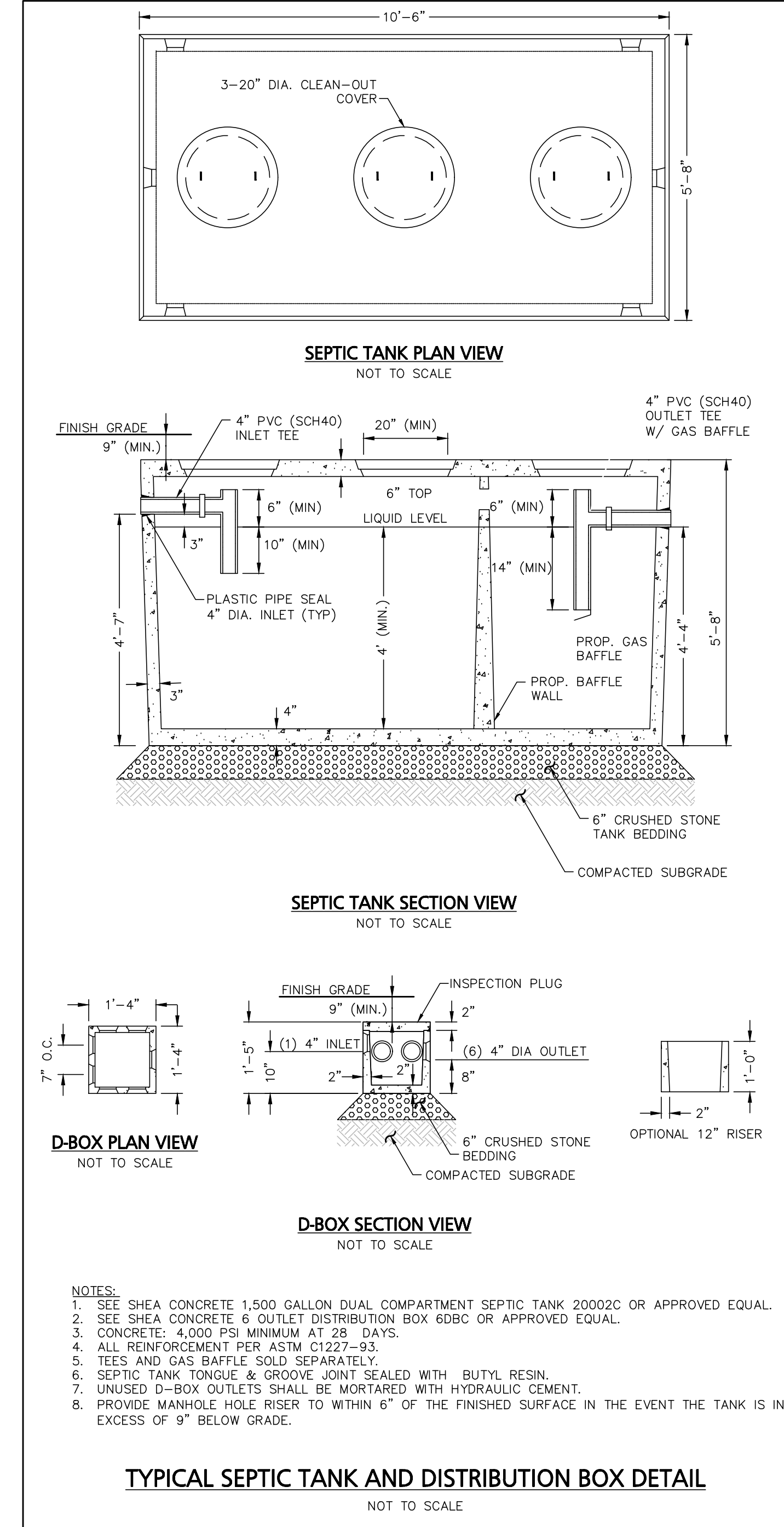
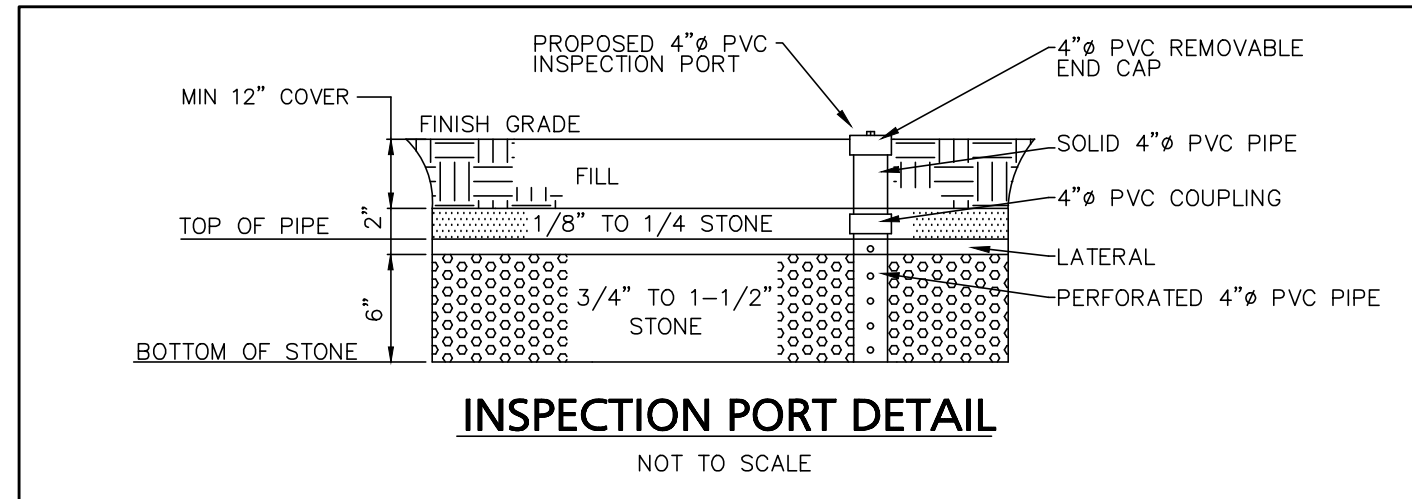
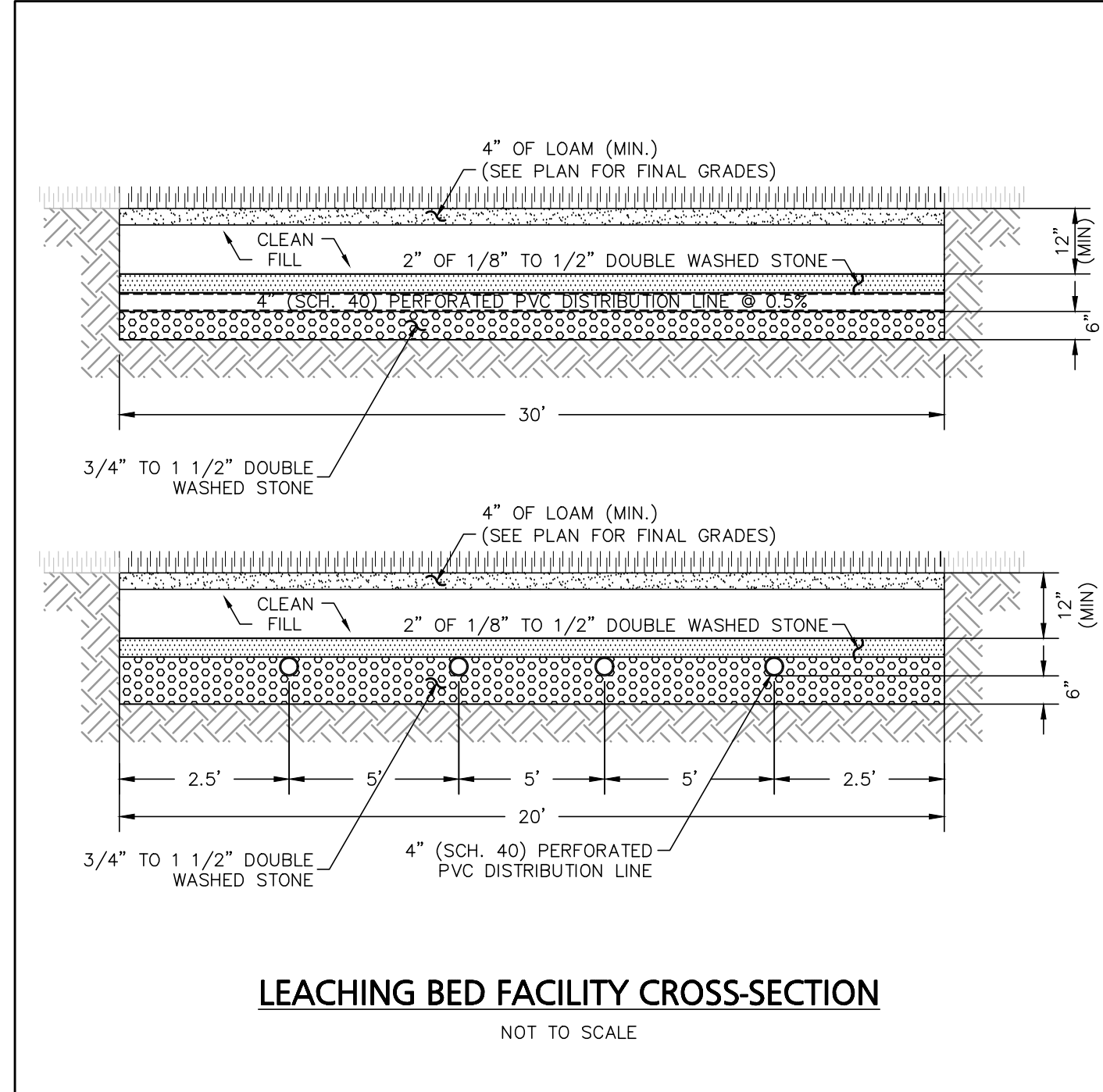
GENERAL CONSTRUCTION SEQUENCE:

- DESCRIBED BELOW ARE THE MAJOR CONSTRUCTION ACTIVITIES. THEY ARE PRESENTED IN THE ORDER (OR SEQUENCE) THEY ARE EXPECTED TO BEGIN, BUT EACH ACTIVITY WILL NOT NECESSARILY BE COMPLETED BEFORE THE NEXT BEGINS. ALSO, THESE ACTIVITIES COULD OCCUR IN A DIFFERENT ORDER IF NECESSARY TO MAINTAIN ADEQUATE EROSION AND SEDIMENTATION CONTROL. ALL ACTIVITIES AND THE TIMEFRAME (BEGINNING AND ENDING DATES) SHALL BE RECORDED BY THE GENERAL CONTRACTOR:
- CONTRACTOR TO REVIEW ALL LOCAL, STATE AND FEDERAL PERMITS.
 - DELINEATE THE LIMIT OF WORK AND INSTALL EROSION CONTROL.
 - CUT AND CLEAR TREES WITHIN THE AREA OF DISTURBANCE.
 - IMPORT FILL REQUIRED. THE AREA OF THE PROPOSED LEACHING FIELD SHALL NOT BE DISTURBED OR COMPACTED IN ANY WAY PRIOR TO CONSTRUCTION OF THE SYSTEM.
 - STRIP TOP AND SUBSOIL IN AREA OF PROPOSED LEACHING FIELD. IMPORT REQUIRED SAND, CONSTRUCT FIELD, AND INSTALL COMPONENTS.
 - BRING AREA TO GRADE AND PAVE AS REQUIRED, COMPLETE PERMANENT SEEDING AND LANDSCAPING.
 - ALL SLOPES SHALL BE STABILIZED IMMEDIATELY AFTER GRADING. ALL DISTURBED AREAS SHALL BE STABILIZED NO LATER THAN 72-HOURS AFTER CONSTRUCTION ACTIVITIES CEASE. IF EARTHWORK TEMPORARILY CEASES ON A PORTION OF OR ON THE ENTIRE SITE, AND WILL NOT RESUME WITHIN 21-DAYS, THE AREA SHALL BE STABILIZED. REMOVE TEMPORARY EROSION CONTROL MEASURES ONCE ALL AREAS ARE STABILIZED WITH A SUITABLE STAND OF GRASS, PAVEMENT, OR COMPACTED GRAVELS.

INSPECTIONS / AS-BUILT / CERTIFICATION NOTES:

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL INSPECTIONS WITH THE APPROVING AUTHORITY AND THE DESIGNER CONSISTENT WITH SECTION 15.021(2) OF TITLE 5.
- SUBSURFACE COMPONENTS SHALL NOT BE BACKFILLED OR OTHERWISE CONCEALED FROM VIEW UNTIL A FINAL INSPECTION HAS BEEN CONDUCTED BY THE APPROVING AUTHORITY, AND PERMISSION HAS BEEN GRANTED BY THE APPROVING AUTHORITY TO BACKFILL THE SYSTEM.
- AT A MINIMUM, THE DESIGNER SHALL INSPECT THE SYSTEM AFTER THE INITIAL EXCAVATION, PRIOR TO BACKFILLING, DURING BACKFILLING OPERATIONS AND DURING THE PLACEMENT OF THE IMPERVIOUS MEMBRANE IF SO PROVIDED.
- THE CONTRACTOR IS RESPONSIBLE TO COORDINATE THE PREPARATION OF AN AS-BUILT PLAN TO REFLECT ANY CHANGES TO THE APPROVED DESIGN PLAN AND SHOW THE EXACT LOCATION AND ELEVATION OF ALL SYSTEM COMPONENTS. IN THE EVENT NO CHANGES ARE MADE TO THE APPROVED PLAN, THE APPROVED PLANS SHOWING THE DISTANCES FROM A KNOWN STRUCTURE TO THE SYSTEM COMPONENTS SHALL BE SUBMITTED TO THE APPROVING AUTHORITY IN PLACE OF AN AS-BUILT PLAN.
- PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF COMPLIANCE, THE DISPOSAL SYSTEM INSTALLER AND DESIGNER SHALL CERTIFY IN WRITING THAT THE SYSTEM HAS BEEN CONSTRUCTED IN COMPLIANCE WITH THE APPROVED PLAN AND TITLE 5.
- SOIL EVALUATOR CERTIFICATION: I CERTIFY THAT I AM CURRENTLY APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION PURSUANT TO 310 CMR 15.017 TO CONDUCT SOIL EVALUATIONS AND THAT THE ABOVE ANALYSIS HAS BEEN PERFORMED BY ME CONSISTENT WITH THE REQUIRED TRAINING, EXPERTISE, AND EXPERIENCE DESCRIBED IN 310 CMR 15.017. I FURTHER CERTIFY THAT THE RESULTS OF MY SOIL EVALUATION, AS INDICATED IN THE ATTACHED SOIL EVALUATION FORM, ARE ACCURATE AND IN ACCORDANCE WITH 310 CMR 15.100 THROUGH 15.107.

TROY STEARNS, S.E.



04/15/2026	CONSERVATION COMMENT REVISIONS
DATE	DESCRIPTION
REVISIONS	
APPLICANT:	
MITCHELL MESSER	
39 LAZARUS WAY SALEM, NH 03079	
PROJECT:	
310 EAST BROADWAY	
HAVERHILL, MA 01830	
DATE ISSUED:	FEBRUARY 05, 2026
PROJECT #:	25-10802
PREPARED BY:	KC
04/15/26	
PROFESSIONAL ENGINEER FOR CIVIL DESIGN CONSULTANTS, INC.	
<small>344 North Main Street Andover - MA 01860 (978) 416-0920 www.civildco.com</small>	
DRAWING TITLE:	
CONSTRUCTION DETAILS	
DRAWING #:	
D-2	