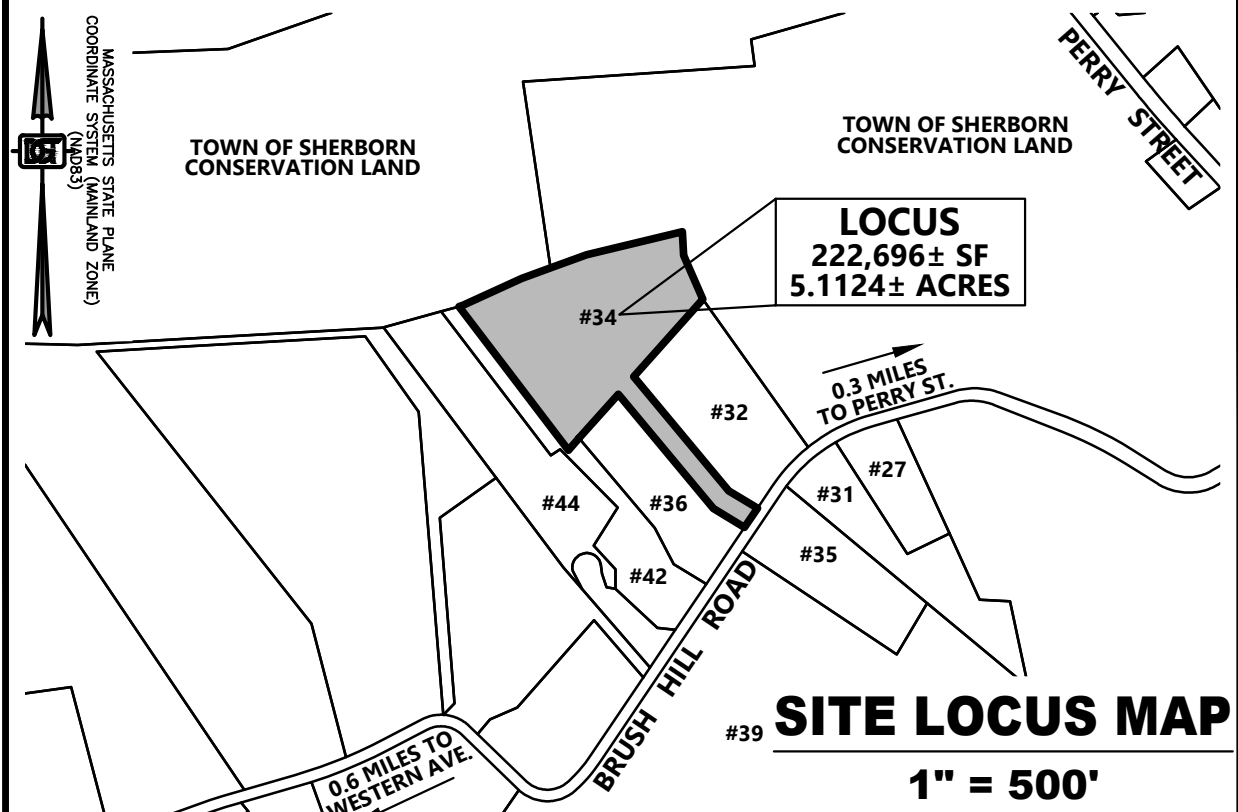


## SCHEDULE OF ELEVATIONS

FIRST FLOOR ELEVATIONS	=	SEE PLAN
BUILDING SEWER INVERT AT FOUNDATIONS	=	SEE PLAN
SEPTIC TANK #1 INLET INVERT	=	220.25
SEPTIC TANK #1 OUTLET INVERT	=	220.00
SEPTIC TANK #2 INLET INVERT	=	214.25
SEPTIC TANK #2 OUTLET INVERT	=	214.00
PUMP CHAMBER INLET INVERT	=	213.90
PUMP CHAMBER OUTLET INVERT	=	213.70
DISTRIBUTION BOX INLET INVERT	=	219.70
DISTRIBUTION BOX OUTLET INVERT	=	219.50

## LEGEND

123	PROPOSED CONTOUR ELEVATION
D	PROPOSED DRAIN LINE
RD	PROPOSED ROOF DRAIN
DMH	PROPOSED DRAIN MANHOLE
STU	PROPOSED STORMWATER TREATMENT UNIT
CB	PROPOSED DEEP SUMP CATCH BASIN
AD	PROPOSED AREA DRAIN
OCS	PROPOSED OUTLET CONTROL STRUCTURE
SMH	PROPOSED SEWER MANHOLE
HDPE	HIGH DENSITY POLYETHYLENE
+223.4	PROPOSED SPOT ELEVATION
T.C.=223.4	PROPOSED TOP OF CURB ELEVATION
B.C.=223.4	PROPOSED BOTTOM OF CURB ELEVATION
T.W.=223.4	PROPOSED TOP OF WALL ELEVATION
B.W.=223.4	PROPOSED BOTTOM OF WALL ELEVATION
L.O.E.	PROPOSED LIMIT OF EXCAVATION



## GENERAL NOTES

- PROPERTY LINE, LEGAL BOUNDARIES AND TOPOGRAPHIC INFORMATION SHOWN HEREON WAS OBTAINED FROM DGT ASSOCIATES. ELEVATIONS SHOWN HEREON REFER TO NAVD1988.
- THE PROPOSED BUILDINGS CONFIGURATION AS SHOWN HEREON SHALL BE CONSIDERED CONCEPTUAL AND SHALL BE VERIFIED WITH THE ARCHITECTURAL PLANS AND CURRENT ZONING ORDINANCES PRIOR TO CONSTRUCTION.
- IN CASES WHERE LEDGE OR BOULDERS ARE PRESENT, DGT ASSOCIATES WILL NOT BE RESPONSIBLE FOR THE AMOUNT OF ROCK ENCOUNTERED.
- DGT ASSOCIATES WILL NOT BE RESPONSIBLE FOR THE PERFORMANCE OF THE SYSTEM UNLESS CONSTRUCTED AS SHOWN. ANY ALTERATIONS MUST BE APPROVED IN WRITING BY DGT ASSOCIATES.
- NO CONSTRUCTION SHALL TAKE PLACE UNTIL A DISPOSAL WORKS CONSTRUCTION PERMIT HAS BEEN ISSUED BY THE SHERBORN BOARD OF HEALTH.
- PURSUANT TO 310 CMR 246(2) THE PERIMETER OF THE SOIL ABSORPTION SYSTEM SHALL BE STAKED AND FLAGGED, FROM THE DATE OF INSTALLATION UNTIL THE ISSUANCE OF A CERTIFICATE OF COMPLIANCE. VEHICULAR TRAFFIC AND PARKING, STOCKPILING OF MATERIALS AND STORAGE OF EQUIPMENT OVER THE SOIL ABSORPTION SYSTEM SHALL BE PROHIBITED AT ALL TIMES.
- THE SYSTEM INSTALLER IS RESPONSIBLE FOR NOTIFYING DGT ASSOCIATES AND THE SHERBORN BOARD OF HEALTH 48 HOURS BEFORE BEGINNING CONSTRUCTION AND 48 HOURS PRIOR TO SIGNIFICANT CONSTRUCTION EVENTS TO SCHEDULE NECESSARY INSPECTIONS.
- PURSUANT TO 310 CMR 15.021 (3) THE DISPOSAL SYSTEM INSTALLER IS REQUIRED TO CERTIFY IN WRITING, ON A FORM APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, THAT THE SYSTEM HAS BEEN CONSTRUCTED IN COMPLIANCE WITH 310 CMR 15.000, THE APPROVED DESIGN PLANS AND ALL LOCAL REQUIREMENTS, AND THAT ANY CHANGES TO THE DESIGN PLANS HAVE BEEN REFLECTED ON THE AS-BUILT PLANS PREPARED BY THE DESIGNER.
- SUBSURFACE COMPONENTS OF A SYSTEM 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.
- PRIOR TO COVERING, ALL SYSTEM COMPONENTS AND THE SOIL ABSORPTION SYSTEM SHALL BE MARKED WITH MAGNETIC MARKING TAPE OR A COMPARABLE MEANS IN ORDER TO LOCATE THEM ONCE BURIED.
- STRUCTURAL DETAILS FROM INDEPENDENT VENDORS ARE CONSTANTLY CHANGING, PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THAT DETAILS SHOWN HEREON MATCH THE CURRENT DETAILS AND SPECIFICATIONS FROM VENDORS.
- THIS PLAN IS NOT INTENDED TO SHOW AN ENGINEERED BUILDING FOUNDATION DESIGN WHICH WOULD INCLUDE DETAILS AND ELEVATIONS FOR FOOTINGS, FOUNDATION WALL DESIGN AND ANY SUBSURFACE DRAINAGE TO PREVENT FLOODING. COORDINATE WITH THE ARCHITECTURAL AND STRUCTURAL PLANS.
- SEE PERMIT SITE PLAN SET SHEET C-2 (INCLUDED HEREIN) FOR SETBACK DISTANCES FROM THE PROPOSED SOIL ABSORPTION SYSTEM TO ON-SITE AND ABUTTING WELLS. ALL SETBACKS EXCEED 150'.

## REGULATORY NOTES

- THE LOCATION OF ALL UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR BY CONTACTING "DIG-SAFE" AT 811.
- THE CONTRACTOR SHALL MAKE HIMSELF AWARE OF ALL CONSTRUCTION REQUIREMENTS, CONDITIONS AND LIMITATIONS IMPOSED BY PERMITS AND APPROVALS ISSUED BY REGULATORY AUTHORITIES PRIOR TO THE COMMENCEMENT OF ANY WORK. CONTRACTOR SHALL COORDINATE AND OBTAIN ALL CONSTRUCTION PERMITS REQUIRED BY REGULATORY AUTHORITIES.
- ALL CONSTRUCTION SHALL CONFORM TO TITLE 5 OF THE MASSACHUSETTS STATE ENVIRONMENTAL CODE (310 CMR 15.000).
- ALL WORK OUTSIDE OF THE BUILDING THAT IS LESS THAN 10 FEET FROM THE INSIDE FACE OF THE BUILDING FOUNDATIONS SHALL CONFORM WITH THE UNIFORM STATE PLUMBING CODE OF MASSACHUSETTS, 248 CMR.
- CONSTRUCTION ACTIVITIES SHALL CONFORM TO THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
- A PRECONSTRUCTION MEETING WITH THE BOARD OF HEALTH, CONSERVATION COMMISSION, DESIGN ENGINEER, AND SITE CONTRACTOR SHALL TAKE PLACE PRIOR TO ANY CONSTRUCTION ACTIVITIES.
- THE SOIL ABSORPTION SYSTEM HAS BEEN DESIGNED WITHOUT THE ADDITIONAL 50% REQUIRED FOR THE USE OF A GARBAGE GRINDER. A GARBAGE GRINDER DEED RESTRICTION SHALL BE RECORDED AT THE REGISTRY OF DEEDS.

## SOIL SPECIFICATION NOTES

- BASE AGGREGATE FROM BELOW THE CROWN OF THE DISTRIBUTION LINES TO THE BOTTOM OF THE SOIL ABSORPTION SYSTEM SHALL CONSIST OF DOUBLE WASHED STONE RANGING FROM 3/4" TO 1-1/2" IN DIAMETER AND BE FREE OF IRON, FINES AND DUST.
- ALL TOPSOIL, SUBSOIL AND DELETERIOUS MATERIAL, IF ANY, MUST BE EXCAVATED AND REMOVED TO A DISTANCE OF FIVE (5) FEET FROM ALL SIDES OF THE LEACHING AREA AND TO A DEPTH OF SIX (6) INCHES BELOW THE SURFACE OF THE NATURAL PERMEABLE SOIL.
- FILL REQUIRED FOR THE LEACHING AREAS SHALL BE COMPROMISED OF CLEAN GRANULAR SAND, FREE FROM ORGANIC MATTER AND DELETERIOUS SUBSTANCES. MIXTURES AND LAYERS OF DIFFERENT MATERIALS SHALL NOT BE USED.
- A SIEVE ANALYSIS SHALL BE PERFORMED FROM THE FILL IN PLACE.
- THE FILL SHALL MEET THE GRADATION REQUIREMENTS OF 310 CMR 15.55(3).
- THE GRADATION PORTION OF THE FILL PASSING A NO. 4 SIEVE SHALL MEET THE FOLLOWING SPECIFICATIONS:

SIEVE SIZE	EFFECTIVE PARTICLE SIZE	PERCENT THAT MUST PASS SIEVE
#4	4.75mm	100%
#60	0.30mm	10%-100%
#100	0.15mm	0%-20%
#200	0.075mm	0%-5%

## SPECIAL NOTES

- THE SUBJECT PROPERTY IS WITHIN A NITROGEN SENSITIVE AREA AS DEFINED IN 310 CMR 15.215 DUE TO THE PRESENCE OF PRIVATE WELLS.
- STATEMENTS RELATIVE TO OTHER SETBACKS: TO OUR KNOWLEDGE THERE ARE: NO PUBLIC WELLS WITHIN 400 FT. OF THE PROPOSED SYSTEM. YES PRIVATE WELLS WITHIN 200 FT. OF THE PROPOSED SYSTEM. YES WETLAND RESOURCE AREAS, AS DEFINED UNDER THE MASS. WETLANDS PROTECTION ACT REGULATIONS (310 CMR 10.00), INCLUDING VERNAL POOLS WITHIN 150 FT. OF THE SUBJECT LOT. (SEE PLAN) NO INLAND BANKS WITHIN 150 FT. OF THE PROJECT. NO WETLANDS BORDERING SURFACE WATER SUPPLY OR TRIBUTARIES ARE LOCATED ON THIS PROJECT. NO SURFACE WATERS ARE LOCATED WITHIN 150 FT. OF THE PROJECT. NO REGULATED FLOODPLAINS OR FLOODWAYS ARE LOCATED ON THE SUBJECT LOT. NO LEACHING CATCH BASINS OR DRYWELLS ARE LOCATED NEAR COMPONENTS OF THE PROPOSED SEWAGE DISPOSAL SYSTEM. YES FOUNDATION DRAINS ARE PROPOSED FOR UNITS 3 AND 4 ONLY; THESE OUTLETS SHALL BE LOCATED OVER 200 FEET FROM THE SEWAGE DISPOSAL SYSTEM ABSORPTION AREA. NO INDUSTRIAL CATEGORY OR PROHIBITED WASTEWATERS ARE PROPOSED FOR THIS PROJECT.

## SOIL TESTING & ESHGWT NOTES

- SOIL TESTING COMPLETED WITHIN THE LIMIT OF THE PROPOSED SOIL ABSORPTION SYSTEM WAS COMPLETED BY DGT ASSOCIATES AND WITNESSED BY MARK ORAM OF THE SHERBORN BOARD OF HEALTH ON OCTOBER 25 AND 26, 2023 AND ON NOVEMBER 4, 2024. ADDITIONAL SOIL TESTING WAS COMPLETED BY CREATIVE LAND & WATER ENGINEERING AND WITNESSED BY MARK ORAM OF THE SHERBORN BOARD OF HEALTH ON AUGUST 19, 2024.
- THE DESIGN ESTIMATED SEASONAL HIGH GROUNDWATER TABLE (ESHGWT) WAS DETERMINED BY SIGNS OF REDOXIMIC FEATURES OBSERVED IN EACH TEST HOLE. SOIL TESTING WAS COMPLETED BY DGT ASSOCIATES FOR THE DESIGN OF THE PROPOSED STORMWATER MANAGEMENT FACILITIES. SEE THE PERMIT SITE PLAN SET PREPARED BY DGT ASSOCIATES LATEST REVISION DATE DECEMBER 20, 2024 FOR DEEP TEST HOLE INFORMATION OUTSIDE OF THE LIMIT OF THE SAS.

## DESIGN DATA

### FLOW CALCULATIONS

- BUILDING USE: SINGLE FAMILY RESIDENTIAL DWELLINGS
- DESIGN FLOW - TITLE 5: 110 GPD/BEDROOM
- FOUR (4) 3-BEDROOM DWELLINGS: 1,320 GPD
- TOTAL DAILY FLOW - TITLE 5: 1,320 GALLONS

### SYSTEM REQUIREMENTS

- DESIGN PERCOLATION RATE: 39 MINUTES PER INCH
- SOIL CLASS: CLASS III
- LONG TERM ACCEPTANCE RATE (LTAR): 0.25 GAL/SF
- GARBAGE GRINDER: NO - DEED RESTRICTION REQUIRED
- TOTAL AREA REQUIRED - TITLE 5: 5,280 SF
- TOTAL AREA PROVIDED: 5,292 SF (12 TRENCHES @ 73.5' LONG - BUTTERFLY FIELD)

### SEPTIC TANK #1 CALCULATIONS - UNIT #1 AND UNIT #2

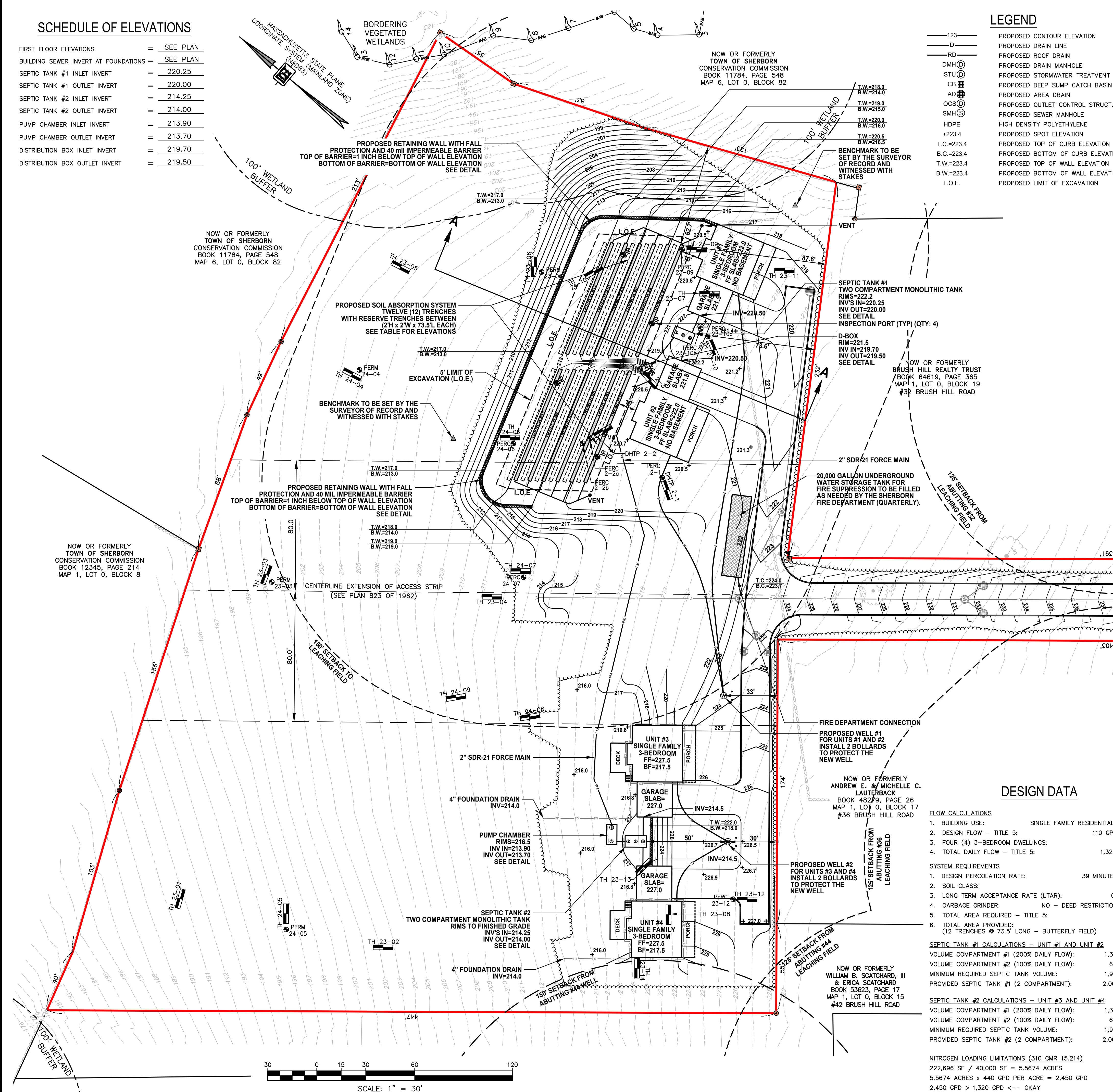
VOLUME COMPARTMENT #1 (200% DAILY FLOW):	1,320 GALLONS
VOLUME COMPARTMENT #2 (100% DAILY FLOW):	660 GALLONS
MINIMUM REQUIRED SEPTIC TANK VOLUME:	1,980 GALLONS
PROVIDED SEPTIC TANK #1 (2 COMPARTMENT):	2,000 GALLONS

### SEPTIC TANK #2 CALCULATIONS - UNIT #3 AND UNIT #4

VOLUME COMPARTMENT #1 (200% DAILY FLOW):	1,320 GALLONS
VOLUME COMPARTMENT #2 (100% DAILY FLOW):	660 GALLONS
MINIMUM REQUIRED SEPTIC TANK VOLUME:	1,980 GALLONS
PROVIDED SEPTIC TANK #2 (2 COMPARTMENT):	2,000 GALLONS

### NITROGEN LOADING LIMITATIONS (310 CMR 15.214)

222,696 SF / 40,000 SF = 5.5674 ACRES  
5.5674 ACRES x 440 GPD PER ACRE = 2,450 GPD  
2,450 GPD > 1,320 GPD <- OKAY



APPLICANT:  
**FENIX PARTNERS BRUSH HILL, LLC**  
177 LAKE STREET  
SHERBORN, MA 01770

OWNER:  
**FENIX PARTNERS BRUSH HILL, LLC**  
ref.  
**MIDDLESEX REGISTRY OF DEEDS**  
BOOK: 81892 PAGE: 265

PARCEL ID:  
**MAP 1, LOT 0, BLOCK 18**



4	BEC	1/24/25	RAISE LEACH FIELD BY 1.0'
3	BEC	1/15/25	PER BOH REVIEW COMMENTS
2	BEC	12/23/24	REVISED SITE DESIGN
1	BEC	9/23/24	PER BOH REVIEW COMMENTS

NO. APP DATE DESCRIPTION

DATE: **JUNE 26, 2024**

SCALE: **1" = 30'**

DESIGN:	DRAFTED:	CHECKED:
<b>KMR</b>	<b>KMR</b>	<b>BEC</b>

PROJECT TITLE:

## BRUSH HILL HOMES

34 BRUSH HILL ROAD  
SHERBORN, MA 01770

SHEET TITLE:

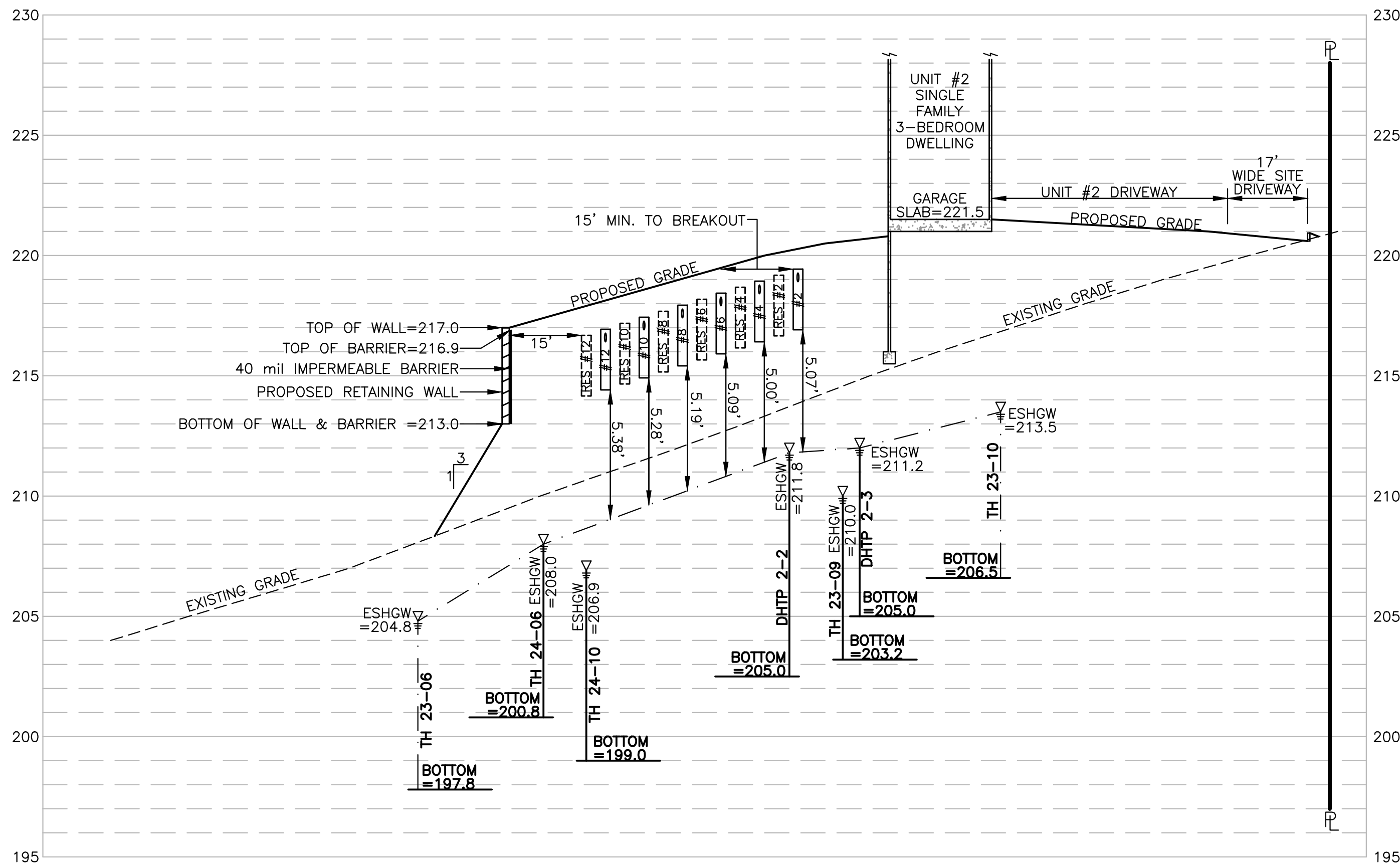
## SUBSURFACE SEWAGE DISPOSAL SYSTEM PLAN

SHEET:  
**1 OF 5**

PROJECT NO.:  
**F-25889**

**BOH-1**





CROSS SECTION A-A

HORIZONTAL SCALE: 1" = 20'

VERTICAL SCALE: 1" = 4'

PRIMARY TRENCH DESIGN DATA

TRENCH NO.	1 & 2	3 & 4	5 & 6	7 & 8	9 & 10	11 & 12
BREAKOUT ELEVATION AT BEGINNING	219.80	219.30	218.80	218.30	217.80	217.30
BREAKOUT ELEVATION AT END	219.40	218.90	218.40	217.90	217.40	216.90
INVERT ELEVATION AT BEGINNING	219.30	218.80	218.30	217.80	217.30	216.80
INVERT ELEVATION AT END	218.90	218.40	217.90	217.40	216.90	216.40
BOTTOM OF STONE ELEVATION	216.90	216.40	215.90	215.40	214.90	214.40
DESIGN GROUNDWATER ELEVATION	211.83	211.40	210.81	210.21	209.62	209.09

RESERVE TRENCH DESIGN DATA

TRENCH NO.	1 & 2	3 & 4	5 & 6	7 & 8	9 & 10	11 & 12
BOTTOM OF STONE ELEVATION	216.65	216.15	215.65	215.15	214.65	214.15
DESIGN GROUNDWATER ELEVATION	211.65	211.10	210.51	209.91	209.32	208.72



APPLICANT:

**FENIX PARTNERS BRUSH HILL, LLC**  
177 LAKE STREET  
SHERBORN, MA 01770

OWNER:

**FENIX PARTNERS BRUSH HILL, LLC**  
ref.  
**MIDDLESEX REGISTRY OF DEEDS**  
BOOK: 81892 PAGE: 265

PARCEL ID:

**MAP 1, LOT 0, BLOCK 18**



4	BEC	1/24/25	RAISE LEACH FIELD BY 1.0'
3	BEC	1/15/25	PER BOH REVIEW COMMENTS
2	BEC	12/23/24	REVISED SITE DESIGN
1	BEC	9/23/24	PER BOH REVIEW COMMENTS
NO.	APP	DATE	DESCRIPTION

DATE: **JUNE 26, 2024**

SCALE: **AS NOTED**

DESIGN:	DRAFTED:	CHECKED:
<b>KMR</b>	<b>KMR</b>	<b>BEC</b>

PROJECT TITLE:

**BRUSH HILL HOMES**

**34 BRUSH HILL ROAD**  
**SHERBORN, MA 01770**

SHEET TITLE:

**SEWAGE DISPOSAL**  
**SYSTEM PROFILE**  
**& CROSS SECTION A-A**

SHEET:

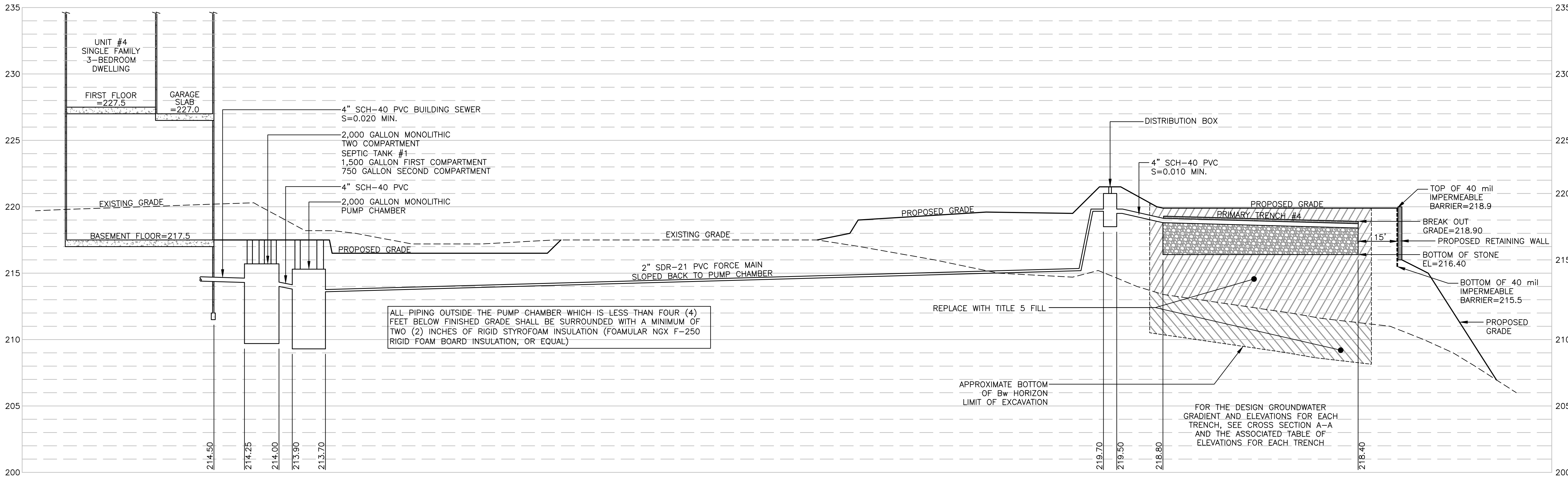
**2 OF 5**

PROJECT NO.:

**F-25889**

**BOH-2**

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SUBSURFACE SEWAGE DISPOSAL SYSTEM PROFILE

HORIZONTAL SCALE: 1" = 20'

VERTICAL SCALE: 1" = 4'



SEWAGE DISPOSAL SYSTEM GENERAL PERFORMANCE, INSTALLATION AND STANDARDS NOTES

I. GENERAL CONSTRUCTION REQUIREMENTS FOR SEWAGE DISPOSAL SYSTEM COMPONENTS

- A. ALL COMPONENTS SHALL BE CONSTRUCTED OF PRECAST REINFORCED CONCRETE, OR APPROVED EQUAL.
- B. ALL COMPONENTS SHALL BE CONSTRUCTED TO THE DIMENSIONAL REQUIREMENTS SHOWN ON THE ACCOMPANYING DETAILS.
- C. ALL CONSTRUCTION MATERIALS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:
- (1) CONCRETE STRENGTH:  $f_{cm}$ =4,000 PSI AT 28 DAYS, DENSITY 140 PCF.
  - (2) CEMENT: PORTLAND TYPE I OR III PER ASTM C150-81.
  - (3) ADMIXTURES: PER ASTM C233-82.
  - (4) MINIMUM DESIGN LOADING: H-20
  - (5) MINIMUM WALL THICKNESS: (SEE DETAILS)
- D. COMPONENTS SHALL BE EMBOSSED WITH A SEAL STATING THAT THE QUALITY CONTROL / QUALITY ASSURANCE STANDARD OUTLINED IN ASTM C 1227-93, HAS BEEN MET.
- E. ALL COMPONENTS SHALL BE PLACED ON A LEVEL STABLE BASE THAT HAS BEEN MECHANICALLY COMPACTED AND ONTO WHICH SIX (6) INCHES OF CRUSHED STONE HAS BEEN PLACED. FOR COMPONENTS PLACED IN FILL, THE BASE MATERIAL SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR DENSITY, BEFORE PLACEMENT OF CRUSHED STONE.
- F. NO STRUCTURES SHALL BE LOCATED DIRECTLY UPON OR ABOVE ANY COMPONENT ACCESS LOCATIONS WHICH INTERFERE WITH PERFORMANCE, ACCESS, INSPECTION, PUMPING OR REPAIR.
- G. ALL COMPONENTS SHALL BE EITHER:
- (1) WATERTIGHT THROUGH MANUFACTURER'S SPECIFICATIONS AND WARRANTY; OR
  - (2) MADE WATERTIGHT BY THE MANUFACTURER, EQUIPMENT SUPPLIER OR INSTALLER USING ASPHALT OR SYNTHETIC POLYMER SEALER SPECIFIED BY THE CONCRETE OR SYNTHETIC POLYMER MATERIAL MANUFACTURER.
- H. ALL SYSTEM COMPONENTS MUST BE MARKED WITH MAGNETIC TAPE BEFORE BACKFILLING OCCURS.

II.CONSTRUCTION REQUIREMENTS BY SYSTEM COMPONENT

- A. BUILDING SEWERS
1. THE BUILDING SEWERS SHALL BE SEPARATED FROM PRIVATE WATER SUPPLY WELLS, OR SUCTION LINES, BY A MINIMUM OF TEN (10) FEET.
  2. THE BUILDING SEWERS SHALL BE CONSTRUCTED OF CORROSION RESISTANT MATERIAL AS SPECIFIED ON THE DESIGN PLANS.
  3. THE BUILDING SEWERS SHALL BE LAID ON A COMPACTED FIRM BASE AT A CONTINUOUS UNIFORM GRADE AND IN A STRAIGHT LINE, AS NEARLY AS POSSIBLE.
  4. ALL PIPE JOINTS SHALL BE MADE WATERTIGHT AND PROTECTED AGAINST ROOT DAMAGE. POURED-TYPE JOINTS SHALL BE PROPERLY WIPED ON THE INSIDE TO PREVENT OBSTRUCTION OF FLOW.
  5. THE BUILDING SEWERS SHALL BE VENTED THROUGH THE MAIN VENT STACK OR MAIN VENT OF THE BUILDING SERVED BY IT. NO TRAP SHALL BE INSTALLED IN THE BUILDING SEWERS OR BUILDING DRAIN.
  6. ALL BUILDING SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STATE PLUMBING CODE 248 CMR.
  7. ALL SEWER PIPES SHOWN LABELED AS SCH-40 PVC IS TO CONFORM TO ASTM D 1785 GENERAL PURPOSE SEWER PIPE.
- B. SEPTIC TANK:
1. A MINIMUM 20-INCH DIAMETER OPENING SHALL BE CAST IN THE CENTER OF THE TANK AND OVER THE INLET AND OUTLET TEES. MANHOLE COVERS SHALL BE RAISED AS REQUIRED BY PROVIDING WATERTIGHT PRECAST 24-INCH I.D. RISERS, OR APPROVED EQUAL. EACH RISER SHALL BE TOPPED WITH A WATERTIGHT FRAME AND COVER (AS SHOWN ON THE DETAILS).
  2. FOR PROPER PERFORMANCE, THE SEPTIC TANK SHOULD BE INSPECTED ANNUALLY AND PUMPED WHENEVER THE TOP OF THE SLUDGE OR SOLIDS LAYER IS WITHIN 12 INCHES OF THE BOTTOM OF THE OUTLET TEE, OR THE TOP OF THE SCUM LAYER IS WITHIN TWO INCHES OF THE TOP OF THE OUTLET TEE, OR IF THE BOTTOM OF THE SCUM LAYER IS WITHIN 2 INCHES OF THE BOTTOM OF THE OUTLET TEE. MINIMALLY THE TANKS SHOULD BE PUMPED ONCE EVERY TWO YEARS.
  3. THE EFFLUENT FILTER INSTALLED IN THE OUTLET TEE OF THE TANK SHOULD BE INSPECTED ANNUALLY AND CLEANED AS NECESSARY.
  4. THE SEPTIC TANK SHALL HAVE A MINIMUM OF 9" OF COVER AND A MAXIMUM OF 3' OF COVER.
- C. SOIL ABSORPTION SYSTEM:
1. NO IMPERVIOUS AREA SHALL BE LOCATED ABOVE A SOIL ABSORPTION SYSTEM UNLESS THE SOIL ABSORPTION SYSTEM IS VENTED TO THE ATMOSPHERE IN ACCORDANCE WITH 310 CMR 15.241 AND APPROVED BY THE SHERBORN BOARD OF HEALTH.
  2. THE TOPSOIL (A HORIZON) AND SUBSOIL (B HORIZON) IS TO BE REMOVED WITHIN THE FOOTPRINT OF THE SOIL ABSORPTION SYSTEM PRIOR TO INSTALLATION.
  3. THE SOIL ABSORPTION SYSTEM SHALL BE COVERED WITH A MINIMUM OF NINE (9) INCHES OF BACKFILL, EXCLUDING TOPSOIL, AND SUFFICIENTLY COMPACTED TO PREVENT DEPRESSIONS. BACKFILL MUST BE CLEAN AND FREE OF STONES AND BouldERS GREATER THAN SIX (6) INCHES IN SIZE. TAILINGS AND CLAY OR SIMILAR MATERIALS, ARE NOT ACCEPTABLE.
  4. THE FINAL GRADE OVER THE SYSTEM SHALL HAVE A MINIMUM SLOPE OF 2% AND SURFACE DRAINAGE SHALL BE DIRECTED AWAY FROM IT.
  5. CARE SHALL BE TAKEN TO ENSURE THAT THE BOTTOM OF THE SOIL ABSORPTION SYSTEM IS NOT SMEARED DURING EXCAVATION. THE BOTTOM AND SIDES OF THE LEACHING INTERFACES SHALL BE SCARIFIED PRIOR TO CONSTRUCTION. THE BOTTOM OF THE LEACHING TRENCHES SHALL BE LEVEL.
  6. AGGREGATE REQUIRED FOR SOIL ABSORPTION SYSTEMS SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:

- A. BASE AGGREGATE FROM BELOW THE CROWN OF THE DISTRIBUTION LINES TO THE BOTTOM OF THE SOIL ABSORPTION SYSTEM SHALL CONSIST OF DOUBLE WASHED STONE RANGING FROM 3/4" TO 1-1/2" IN DIAMETER AND SHALL BE FREE OF IRON, FINES AND DUST.
- B. A MINIMUM 1/8"-1/2" IN DIAMETER (FREE OF IRON, FINES AND DUST) SHALL BE PLACED OVER THE BASE AGGREGATE.
7. FILL REQUIRED FOR THE LEACHING AREA AS SHOWN ON THE DESIGN PLAN, SHALL BE COMPRISED OF CLEAN GRANULAR SAND, FREE FROM ORGANIC MATTER AND DELETERIOUS SUBSTANCES. MIXTURES AND LAYERS OF DIFFERENT MATERIALS SHALL NOT BE USED. THE FILL SHALL MEET THE GRADATION REQUIREMENTS OF 310 CMR 15.255 (3) WHICH IS AS FOLLOWS:
- A. THE FILL SHALL CONTAIN NO MATERIAL LARGER THAN 2 INCHES.
- B. NO GREATER THAN 45% BY WEIGHT SHALL BE RETAINED ON A NO.4 SIEVE.
- C. THE GRADATION OF THE PORTION OF THE FILL PASSING A NO.4 SIEVE SHALL MEET THE FOLLOWING SPECIFICATIONS:

SIEVE / SIEVE #	EFFECTIVE PARTICLE SIZE	PERCENT THAT MUST PASS SIEVE
#4	4.75mm	100%
#50	0.30mm	10%-100%
#100	0.15mm	0%-20%
#200	0.075mm	0%-5%

- D. A SIEVE ANALYSIS SHALL BE PERFORMED FROM THE FILL IN PLACE.
8. NO PERMANENT STRUCTURE MAY BE CONSTRUCTED OVER THE SOIL ABSORPTION SYSTEM INCLUDING ITS 100% EXPANSION AREA.
9. EXCAVATION TO BE DRY AND SCARIFIED.
10. FILL TO BE STOCKPILED NEAR THE PROPOSED SOIL ABSORPTION SYSTEM LOCATION SUCH THAT IT CAN BE PUSHED OR CAST INWARD OVER EXCAVATED AREA.
11. FILL SHALL NOT BE PLACED DURING RAIN OR SNOW STORMS.
12. DEWATERING IS REQUIRED FOR FILL TO BE PLACED BELOW THE ACTIVE GROUNDWATER TABLE.
13. THE SOIL ABSORPTION SYSTEM SHALL HAVE FOUR (4) INSPECTION PORTS CONSISTING OF A PERFORATED FOUR (4) INCH PIPE PLACED VERTICALLY DOWN INTO THE STONE TO THE NATURALLY OCCURRING SOIL OR SAND FILL BELOW THE STONE. THE PIPE SHALL BE CAPPED WITH A SCREW TYPE CAP AND ACCESSIBLE TO WITHIN THREE (3) INCHES OF FINISHED GRADE.
- D. DUPLEX PUMP SYSTEM AND PUMP CHAMBER
1. GENERAL:
- A. FURNISH AND INSTALL ONE COMPLETE PUMPING SYSTEM CONSISTING OF TWO SUBMERSIBLE SEWAGE EJECTOR PUMPS AND MOTORS, DISCHARGE PIPING AND VALVES, MECHANICAL FLOAT SWITCH LEVEL CONTROLS, HIGH WATER ALARM, DUPLEX CONTROL PANEL AND A PRECAST CONCRETE DOSING CHAMBER (AKA PUMP CHAMBER).
- B. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND WARRANTED FOR A PERIOD OF AT LEAST ONE YEAR.
- C. UPON COMPLETION OF THE INSTALLATION, THE CONTRACTOR SHALL PROVIDE A SUFFICIENT QUANTITY OF CLEAN WATER TO CONDUCT TWO PUMP OPERATION TESTS FOR EACH PUMP UNDER THE DIRECTION AND SUPERVISION OF THE DESIGN ENGINEER AND THE SHERBORN BOARD OF HEALTH.
2. PUMP CHAMBER:
- A. PUMP CHAMBER SHALL BE A 2,000 GALLON MONOLITHIC PRECAST CONCRETE TANK AS MANUFACTURED BY SHEA PRODUCTS, OR APPROVED EQUAL.
- B. CONSTRUCTION JOINTS AND OPENINGS SHALL BE SEALED WITH PROVIDE KOR-N-SEAL OR APPROVED EQUAL EPDM RUBBER SEAL WITH STAINLESS STEEL BAND AND CLAMPS. THE EXTERIOR SURFACES SHALL BE WATERPROOFED WITH TWO COATS OF A WATERPROOFING EPOXY PAINT, OR APPROVED EQUAL.
- C. A MINIMUM 30" ACCESS COVER SHALL BE INSTALLED OVER THE PUMPS. THE ACCESS COVER SHALL BE BROUGHT TO FINISHED GRADE AND EMBEDDED IN A CONCRETE COLLAR TO MAINTAIN AN H-20 LOADING.

3. PUMPS AND MOTORS:
- A. THE PUMPS AND MOTORS SHALL BE A HEAVY DUTY SEWAGE EJECTOR PUMP WITH A MINIMUM 2 INCH DISCHARGE AND ABLE TO PASS A 2 INCH SOLID. THE PUMPS AND MOTORS SHALL BE FULLY SUBMERSIBLE AND SHALL OPERATE AT 1,750 RPM WITH A 230V, SINGLE PHASE AC POWER SOURCE. THE ELECTRICAL CONTRACTOR SHALL VERIFY THAT THE PROPER VOLTAGE IS AVAILABLE AT THE CONTROL PANEL.
- B. USE TWO GOULD'S W80312B PUMPS WITH A 4.69 INCH (STANDARD) IMPELLER, OR AN EQUIVALENT APPROVED BY DGT ASSOCIATES. THE PUMP SHALL BE RATED AS FOLLOWS:
- A) 0.33 HORSEPOWER
  - B) 36 GALLONS PER MINUTE
  - C) 15 FEET, TOTAL DYNAMIC HEAD (VELOCITY=3.7 ft/sec IN THE FORCE MAIN)

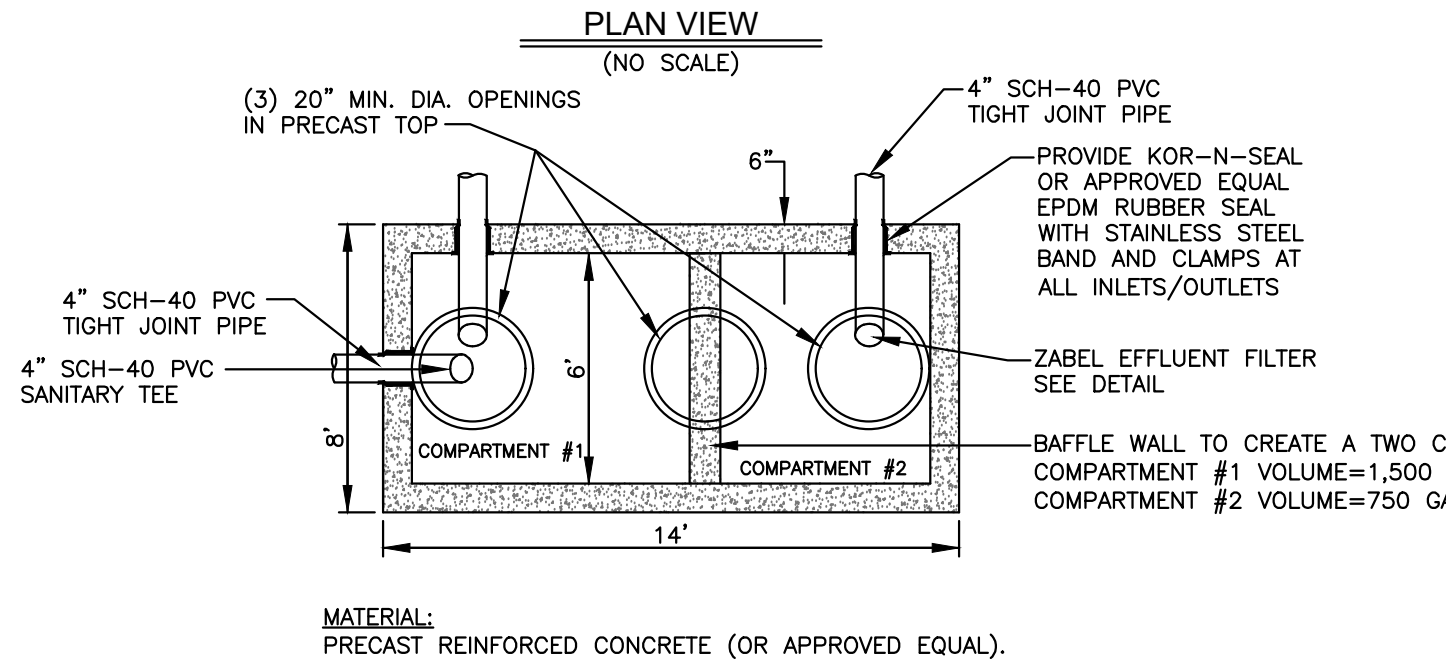
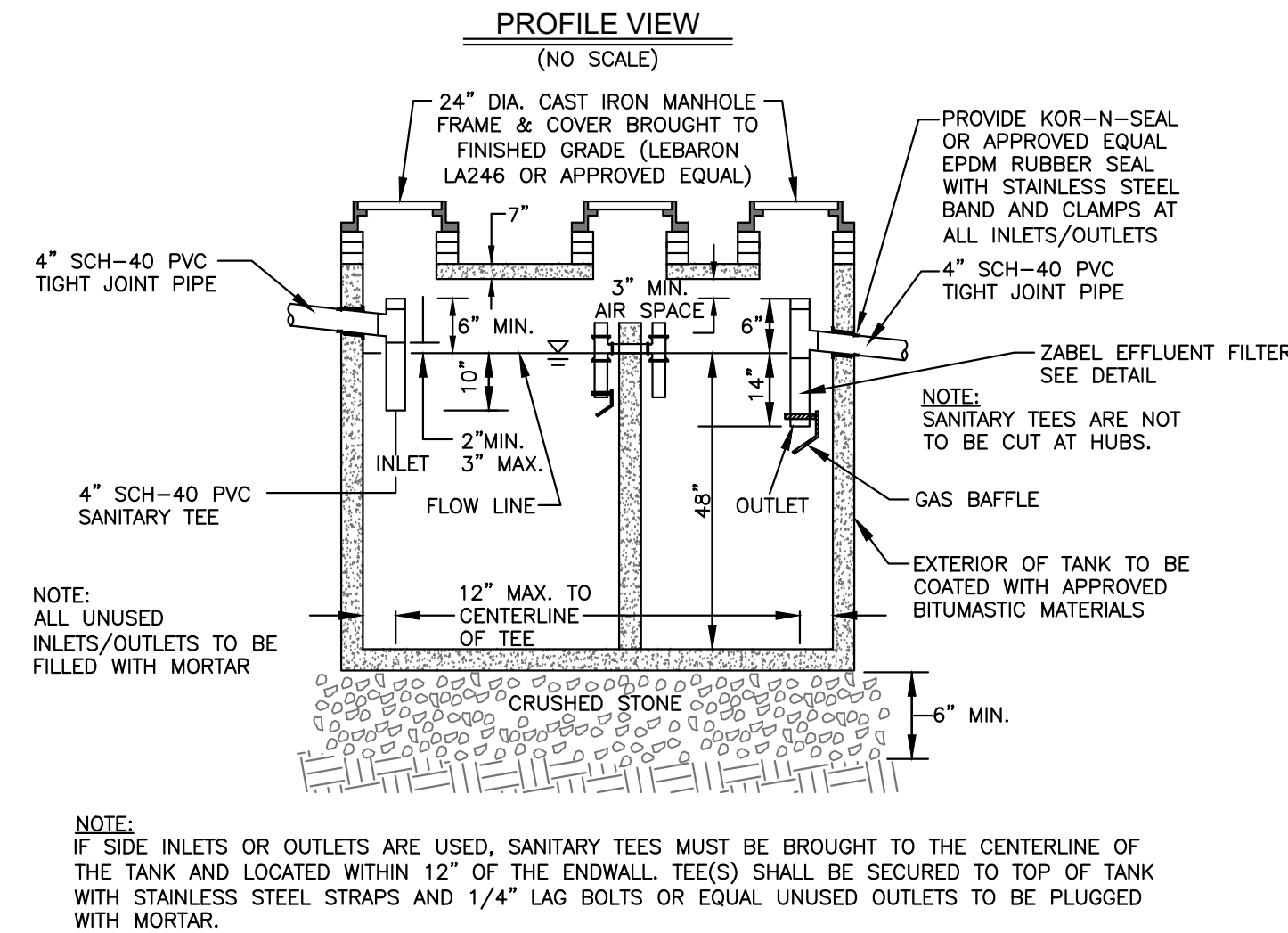
4. LEVEL CONTROLS:
- A. SEALED MECHANICAL FLOAT SWITCHES SHALL BE SUPPLIED TO CONTROL THE SUMP LEVEL, ALARM SIGNAL, AND LAG PUMP ON. TWO FLOAT SWITCHES SHALL BE USED TO CONTROL THE SUMP LEVEL; ONE FOR PUMP "OFF" AND ONE FOR PUMP "ON". A THIRD SWITCH SHALL BE PROVIDED WITH A POWER SOURCE SEPARATE FROM THE PUMP POWER AND SHALL BE FOR THE ALARM UNIT. A FOURTH SWITCH SHALL BE PROVIDED TO CONTROL THE LAG PUMP "ON" IN THE EVENT THAT THE LEAD PUMP DOES NOT OPERATE. A NEMA-4 JUNCTION BOX FOR THE FLOAT SWITCHES SHALL BE INSTALLED ABOVE THE HIGH WATER LEVEL.
- B. THE FLOAT LEVEL CONTROLS SHALL BE SET TO OPERATE AT THE ELEVATIONS INDICATED ON THE PLANS.

- (5) CONTROL PANEL:
- (A) THE DUPLEX CONTROL PANEL SHALL BE EQUIPPED WITH A RUN LIGHT FOR EACH PUMP, PROPERLY SIZED CIRCUIT BREAKERS, A TRANSFORMER TO GIVE PROPER VOLTAGE TO THE CONTROL CIRCUITS AND ONE THREE-WAY PUMP CONTROL SWITCH. THE SWITCH POSITIONS ARE AS FOLLOWS: 1) PUMP OFF, 2) AUTOMATIC, 3) MANUAL PUMP ON.
- (B) AN ALTERNATOR RELAY SHALL BE PROVIDED IN THE DUPLEX CONTROL PANEL TO ALTERNATE THE OPERATION OF THE PUMPS EACH TIME THE "PUMP ON" SWITCH IS ACTIVATED.
- (C) THE DUPLEX CONTROL PANEL SHALL BE FOR A 230V, SINGLE PHASE AC POWER SUPPLY AND HOUSED IN A NEMA-4 ENCLOSURE. THE PANEL SHALL BE INSTALLED IN A SUITABLE LOCATION OUTSIDE WITHIN A COMMON AREA.
- (D) THE DUPLEX CONTROL PANEL SHALL BE EQUIPPED WITH A RUN TIME METER AND COUNTER FOR EACH PUMP.

- (6) ALARM:
- (A) A HIGH WATER ALARM SHALL BE SUPPLIED WITH BOTH AN AUDIBLE AND VISUAL ALARM WITH A POWER SUPPLY SEPARATE FROM THE PUMP. THE ALARM SHALL BE MOUNTED IN A NEMA-4 ENCLOSURE. AN ALARM SILENCER BUTTON SHALL BE PROVIDED TO SILENCE THE AUDIBLE ALARM WHILE THE VISUAL REMAINS ILLUMINATED UNTIL MANUALLY RESET.

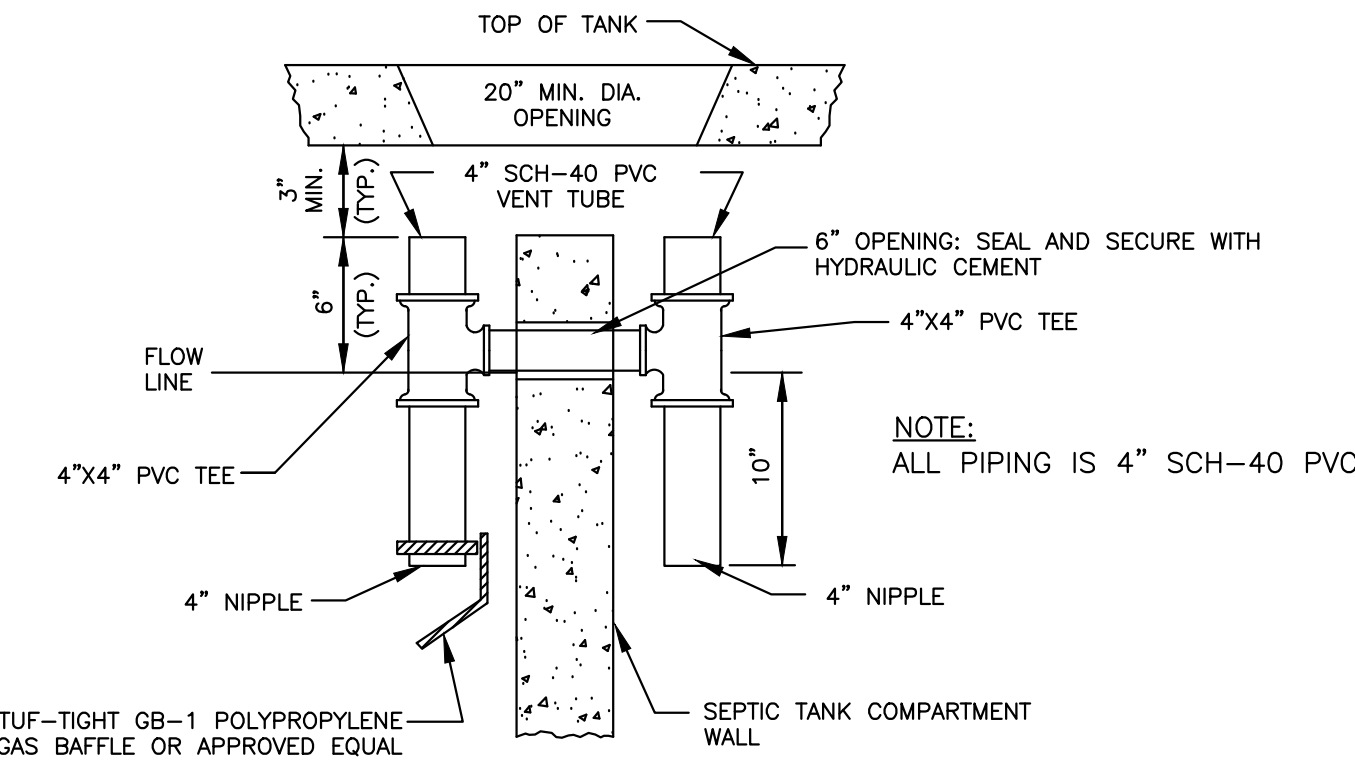
- (7) PIPING:
- A. THE PUMP CHAMBER DISCHARGE PIPING AND FITTINGS SHALL BE 2-INCH SCH-40 PVC WITHIN THE PUMP CHAMBER TO INCLUDE THE FOLLOWING FOR EACH PUMP: IN THE VERTICAL POSITION: A 2-INCH BALL-TYPE CHECK VALVE; IN THE HORIZONTAL POSITION: A 2-INCH QUICK DISCONNECT UNION, AND A 2-INCH BALL-TYPE GATE VALVE. PIPING AND VALVES SHALL BE ARRANGED SO THAT THEY ARE EASILY ACCESSIBLE FROM THE PUMP CHAMBER ACCESS COVER.
- B. THE FORCE MAIN PIPING SHALL BE 2-INCH 200 PSI SDR-21 PVC PIPE WITH BELL AND SPIGOT JOINTS, AND SHALL BE LAID AS SHOWN IN THE BEDDING DETAIL. THE FORCE MAIN SHALL DISCHARGE INTO THE SPLITTER BOX WITH A 4-INCH TEE CUT 1-INCH ABOVE THE FLOW LINE.
- C. ALL PIPING OUTSIDE THE PUMP CHAMBER WHICH IS LESS THAN FOUR (4) FEET BELOW FINISHED GRADE SHALL BE SURROUNDED WITH A MINIMUM OF TWO-INCHES OF RIGID STYROFOAM INSULATION.
- D. THE FORCE MAIN SHALL BE LAID ON A CONTINUOUS UNIFORM GRADE WITH NO SAGS.

- (8) DOSING REQUIREMENTS:
- A. PURSUANT TO 310 CMR 15.254: DOSING, THE SYSTEM HAS BEEN DESIGNED TO PROVIDE 6 DOSES PER DAY INCLUDING THE FLOW BACK VOLUME IN THE FORCE MAIN; EQUAL TO 284.4 GALLONS PER DOSE.
- B. ADDITIONAL STORAGE PROVIDED IN THE PUMP CHAMBER, ABOVE THE HIGH WATER ALARM LEVEL IS APPROXIMATELY 1,137 GALLONS. IN THE EVENT OF A POWER FAILURE, THERE IS SUFFICIENT CAPACITY TO PROVIDE APPROXIMATELY 25.9 HOURS OF STORAGE.

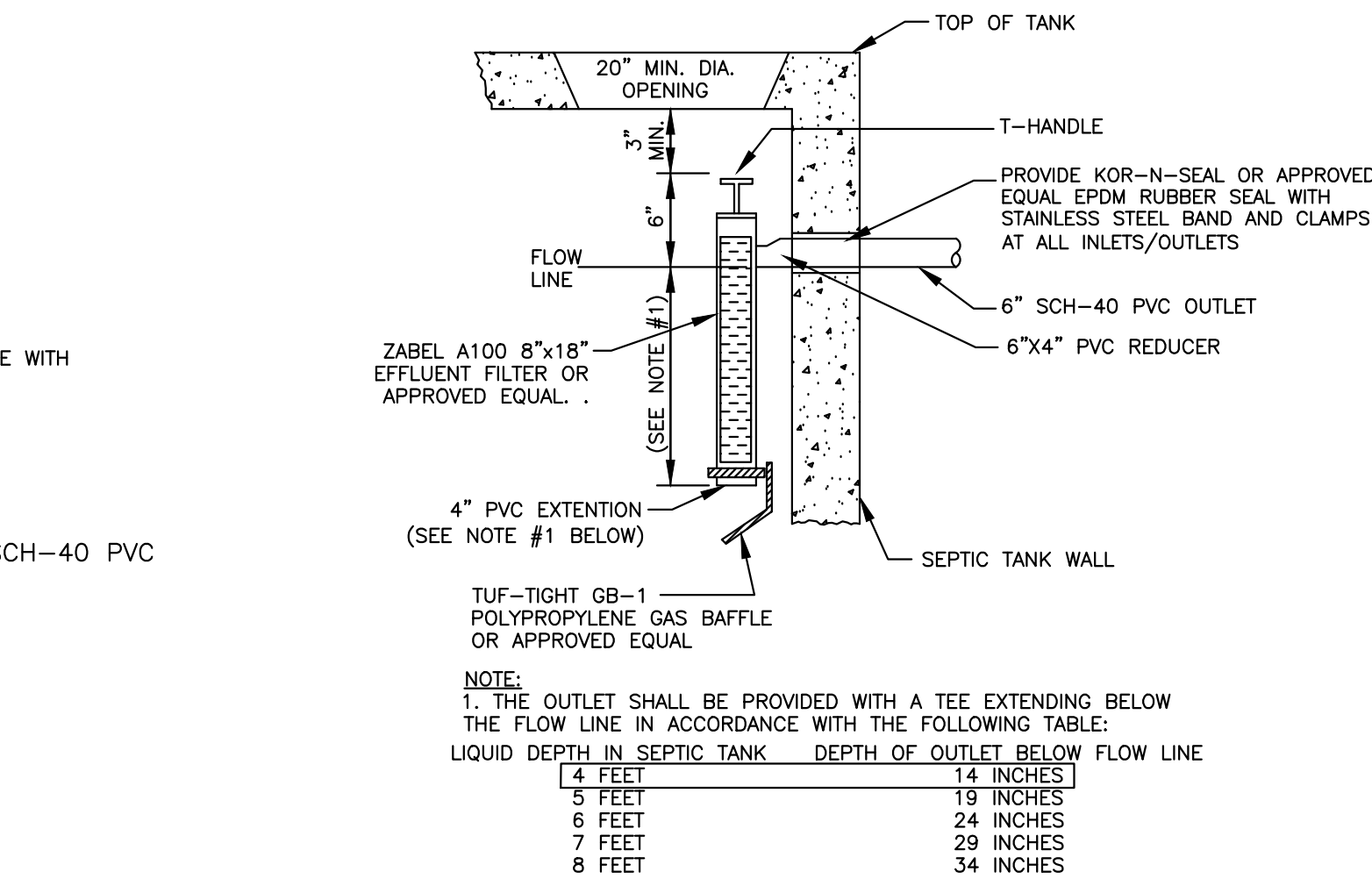


DIMENSIONS SHOWN ARE BASED ON SHEA CONCRETE PRODUCTS, INC. ITEM NO. M20002CH MONOLITHIC TANK (OR APPROVED EQUAL).

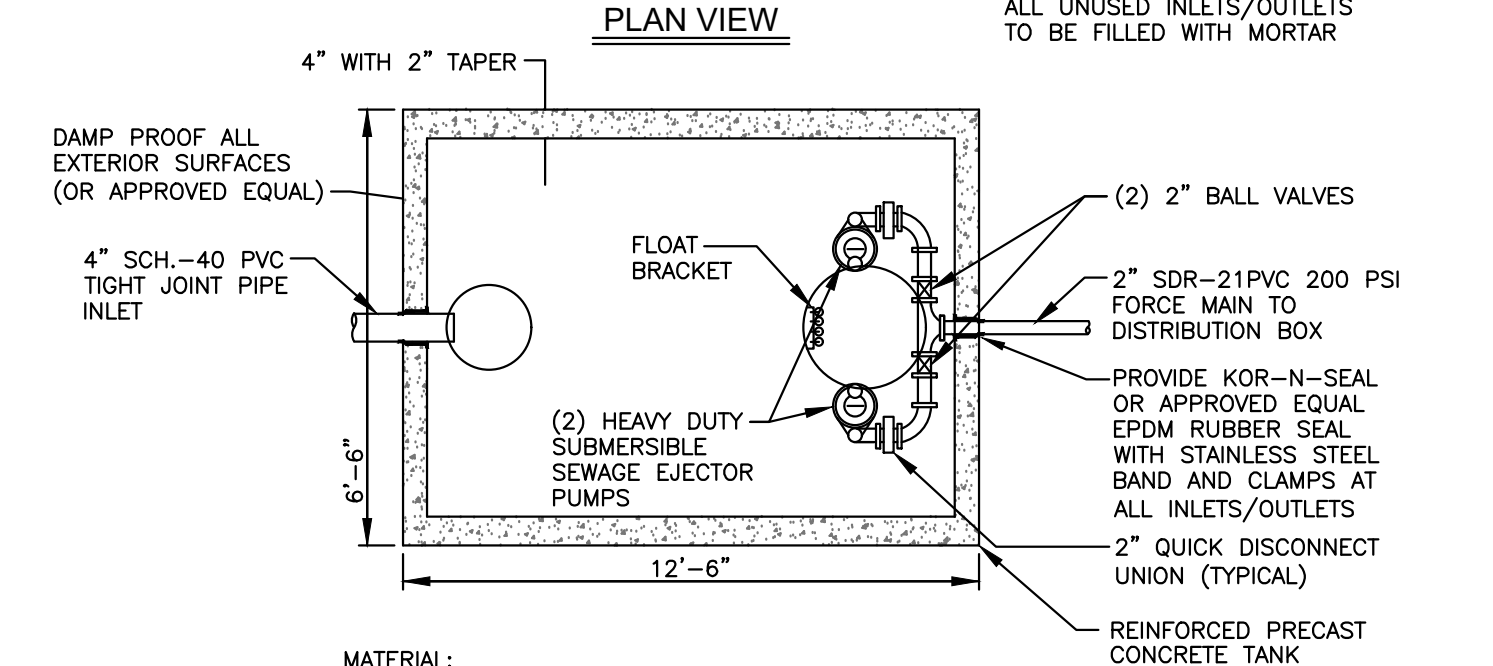
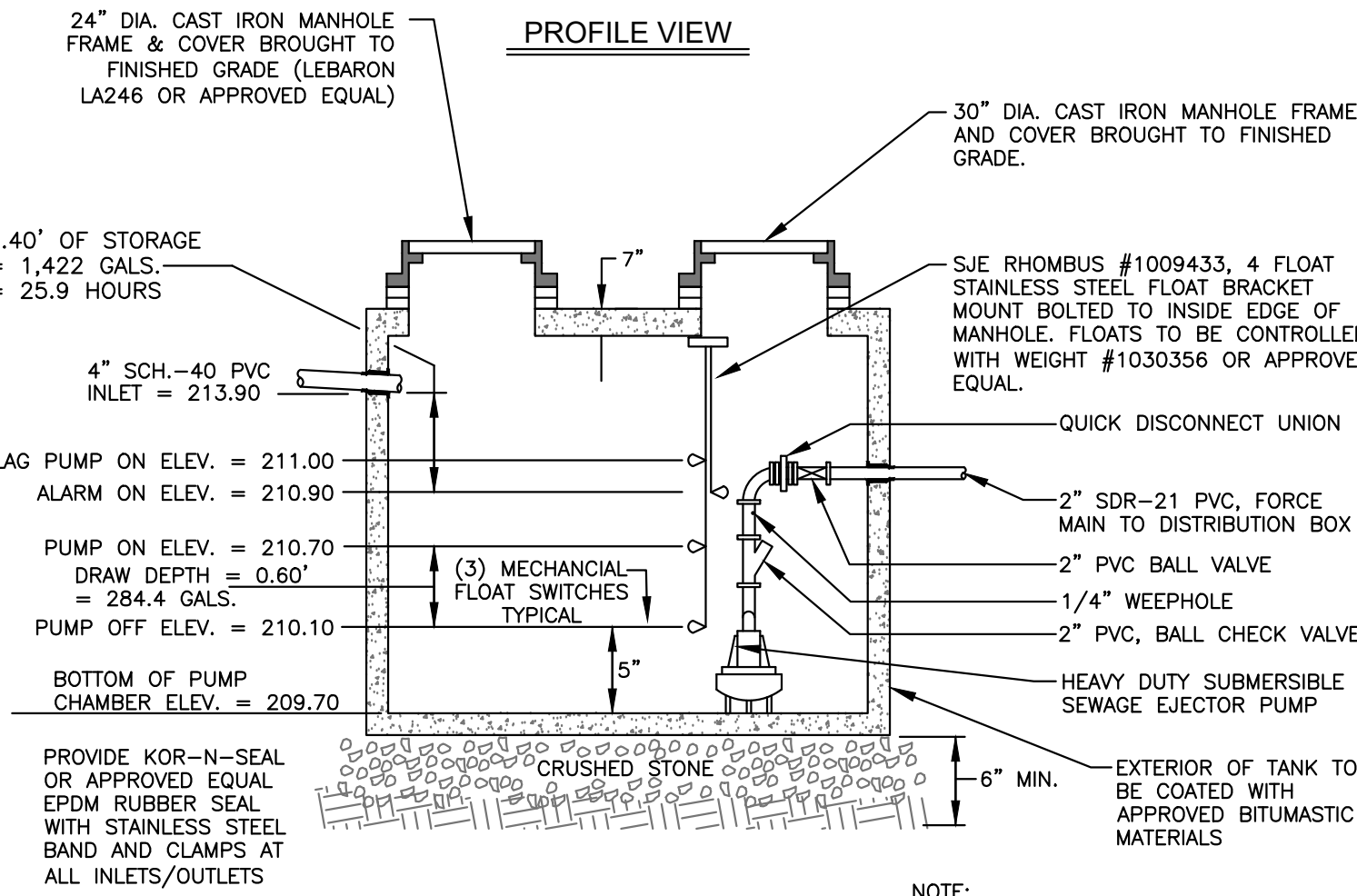
SEPTIC TANK #1 AND #2  
(310 CMR 15.223-15.229)  
(NO SCALE)



TWO COMPARTMENT SEPTIC TANK INVERTED "U"  
(NO SCALE)



OUTLET TEE WITH EFFLUENT FILTER  
(NO SCALE)



DIMENSIONS SHOWN ARE BASED ON SHEA CONCRETE PRODUCTS, INC. ITEM NO. TM2000H MONOLITHIC TANK (OR APPROVED EQUAL).

PUMP CHAMBER  
(310 CMR 15.231)  
(NO SCALE)

APPLICANT:  
**FENIX PARTNERS BRUSH HILL, LLC**  
177 LAKE STREET  
SHERBORN, MA 01770

OWNER:  
**FENIX PARTNERS BRUSH HILL, LLC**  
ref.  
**MIDDLESEX REGISTRY OF DEEDS**  
BOOK: 81892 PAGE: 265

PARCEL ID:  
**MAP 1, LOT 0, BLOCK 18**

4	BEC	1/24/25	RAISE LEACH FIELD BY 1.0'
3	BEC	1/15/25	PER BOH REVIEW COMMENTS
2	BEC	12/23/24	REVISED SITE DESIGN
1	BEC	9/23/24	PER BOH REVIEW COMMENTS
NO.	APP	DATE	DESCRIPTION

DATE: **JUNE 26, 2024**

SCALE: **AS NOTED**

DESIGN:	DRAFTED:	CHECKED:
<b>KMR</b>	<b>KMR</b>	<b>BEC</b>

PROJECT TITLE:

**BRUSH HILL HOMES**

**34 BRUSH HILL ROAD  
SHERBORN, MA 01770**

SHEET TITLE:

**SEWAGE DISPOSAL  
SYSTEM COMPONENT  
NOTES & DETAILS**

SHEET:  
**3 OF 5**

PROJECT NO.:  
**F-25889**

**BOH-3**



APPLICANT:

**FENIX PARTNERS BRUSH HILL, LLC**  
177 LAKE STREET  
SHERBORN, MA 01770

OWNER:

**FENIX PARTNERS BRUSH HILL, LLC**  
ref.  
**MIDDLESEX REGISTRY OF DEEDS**  
BOOK: 81892 PAGE: 265

PARCEL ID:

**MAP 1, LOT 0, BLOCK 18**



NO.	APP	DATE	DESCRIPTION
4	BEC	1/24/25	RAISE LEACH FIELD BY 1.0'
3	BEC	1/15/25	PER BOH REVIEW COMMENTS
2	BEC	12/23/24	REVISED SITE DESIGN
1	BEC	9/23/24	PER BOH REVIEW COMMENTS

DATE: **JUNE 26, 2024**

SCALE: **AS NOTED**

DESIGN:	DRAFTED:	CHECKED:
<b>KMR</b>	<b>KMR</b>	<b>BEC</b>

PROJECT TITLE:

## BRUSH HILL HOMES

**34 BRUSH HILL ROAD**  
**SHERBORN, MA 01770**

SHEET TITLE:

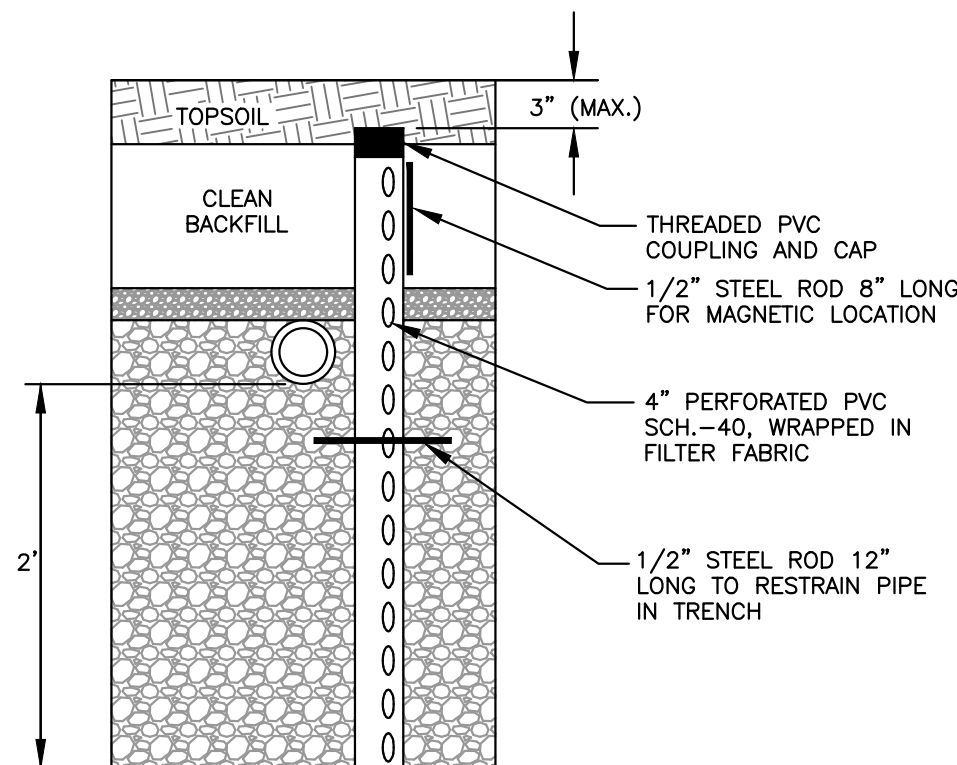
## SEWAGE DISPOSAL SYSTEM DETAILS AND CROSS SECTION

SHEET:  
**4 OF 5**

PROJECT NO.:  
**F-25889**

**BOH-4**

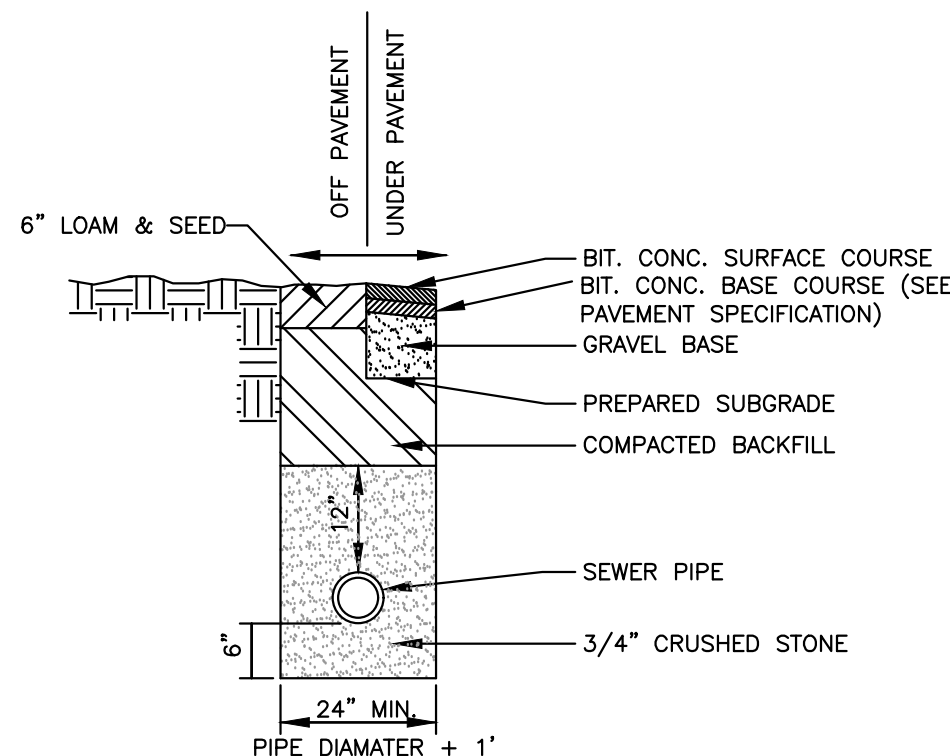
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SECTION VIEW

### INSPECTION PORT

1"=1'

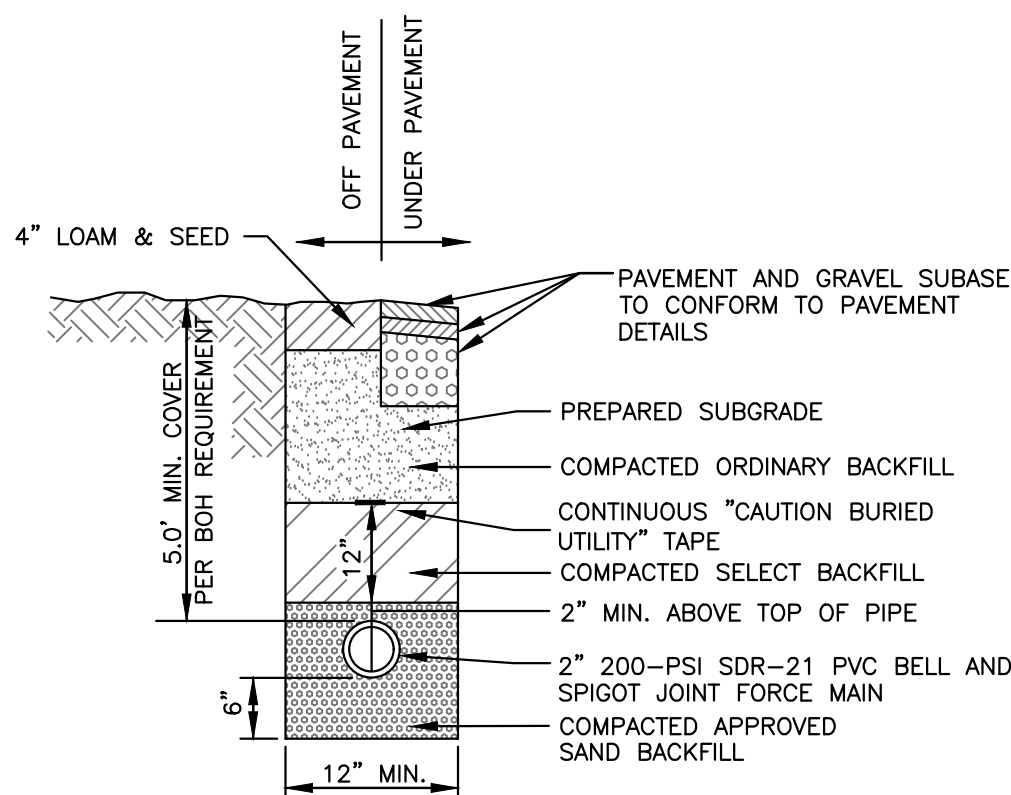


NOTES:

- TRENCH BACKFILL SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS AS CONTAINED IN MASSACHUSETTS HIGHWAY DEPARTMENT, STANDARDS AND SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, 1986.

### TYPICAL SEWER PIPE BEDDING

(NO SCALE)

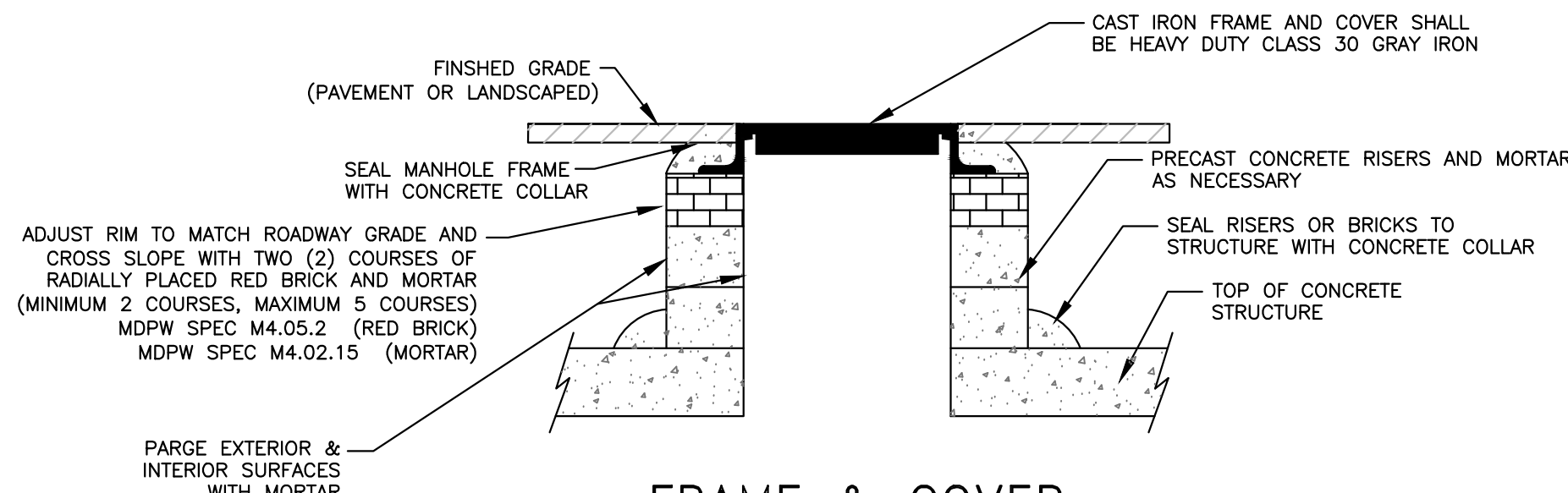


NOTES:

- TRENCH BACKFILL SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS AS CONTAINED IN MASSACHUSETTS HIGHWAY DEPARTMENT, STANDARDS AND SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, 1986.
- SAND BACKFILL FOR FORCE MAIN BEDDING SHALL CONFORM WITH M1.04.0 TYPE B "SAND BORROW".
- SELECT BACKFILL SHALL BE ON-SITE SOIL OR IMPORTED BACKFILL CONFORMING WITH M1.02.0 (a) "SPECIAL BORROW" WITH NO STONES LARGER THAN 3 INCHES.
- ORDINARY BACKFILL SHALL CONSIST OF ON-SITE OR IMPORTED BACKFILL MEETING M1.01.0 WITH NO STONES LARGER THAN 6 INCHES.

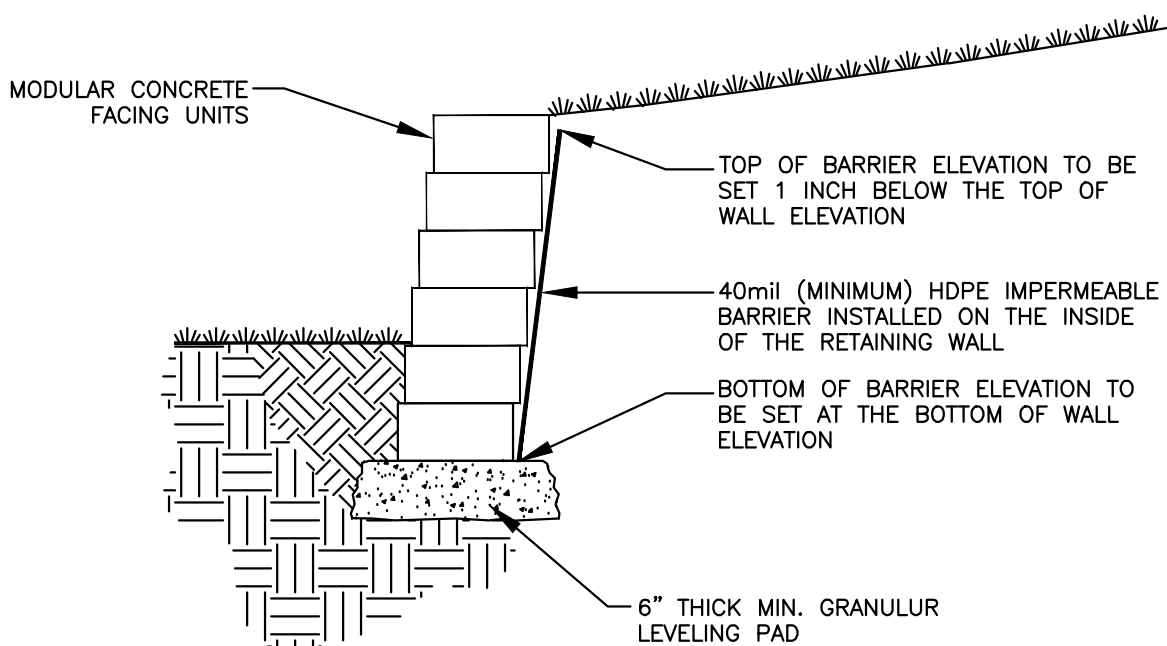
### TYPICAL FORCE MAIN BEDDING

(NO SCALE)



### FRAME & COVER INSTALLATION DETAIL

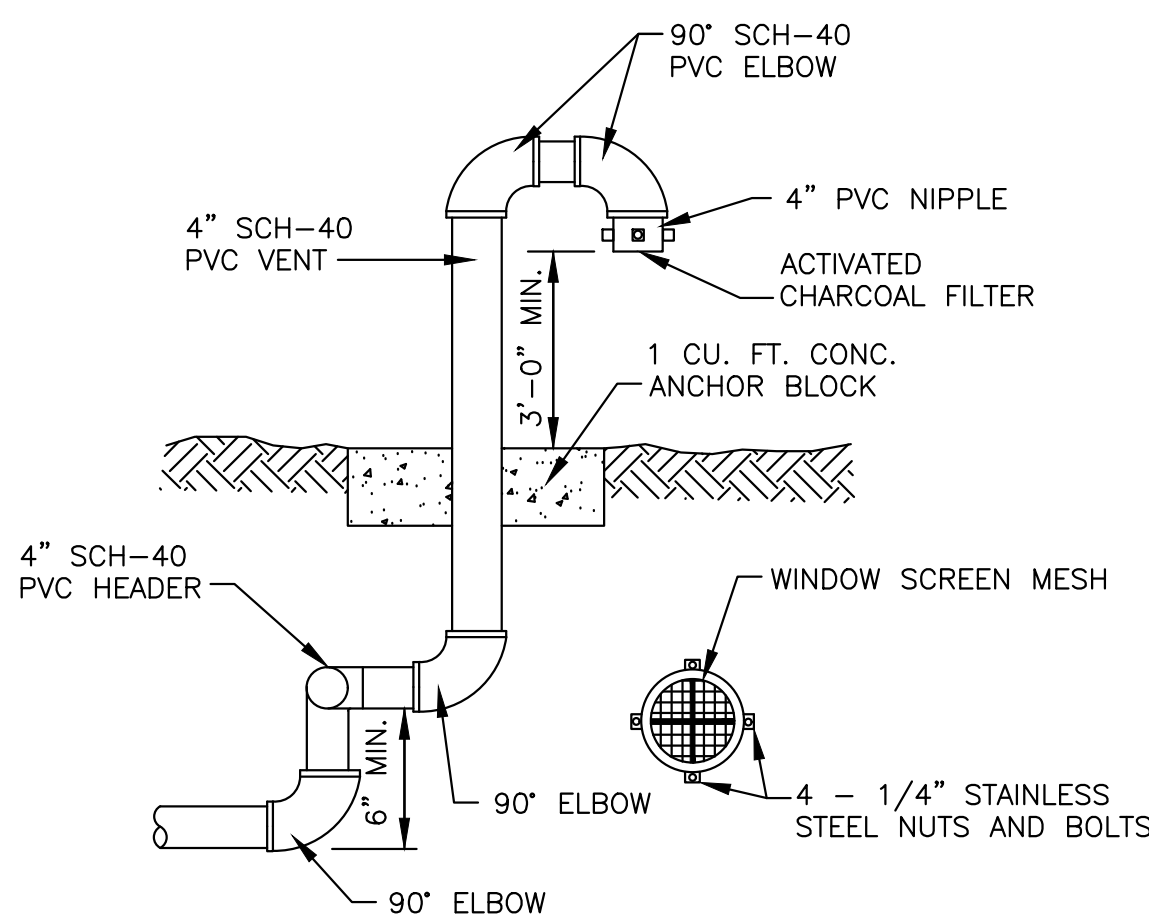
(NO SCALE)



NOTE: RETAINING WALLS TO BE DESIGNED BY OTHERS.

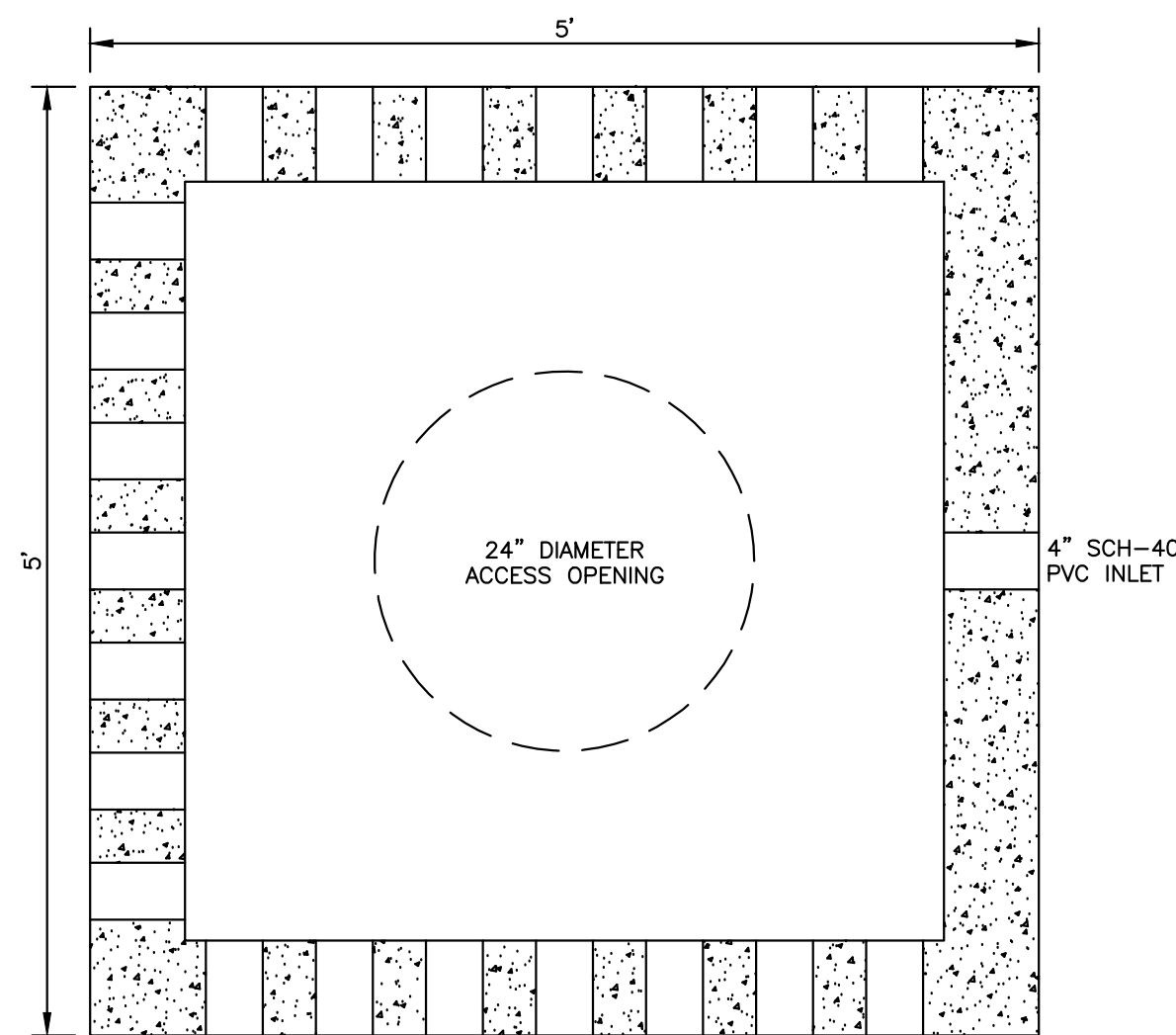
### TYPICAL SECTION-RETAINING WALL

(NO SCALE)

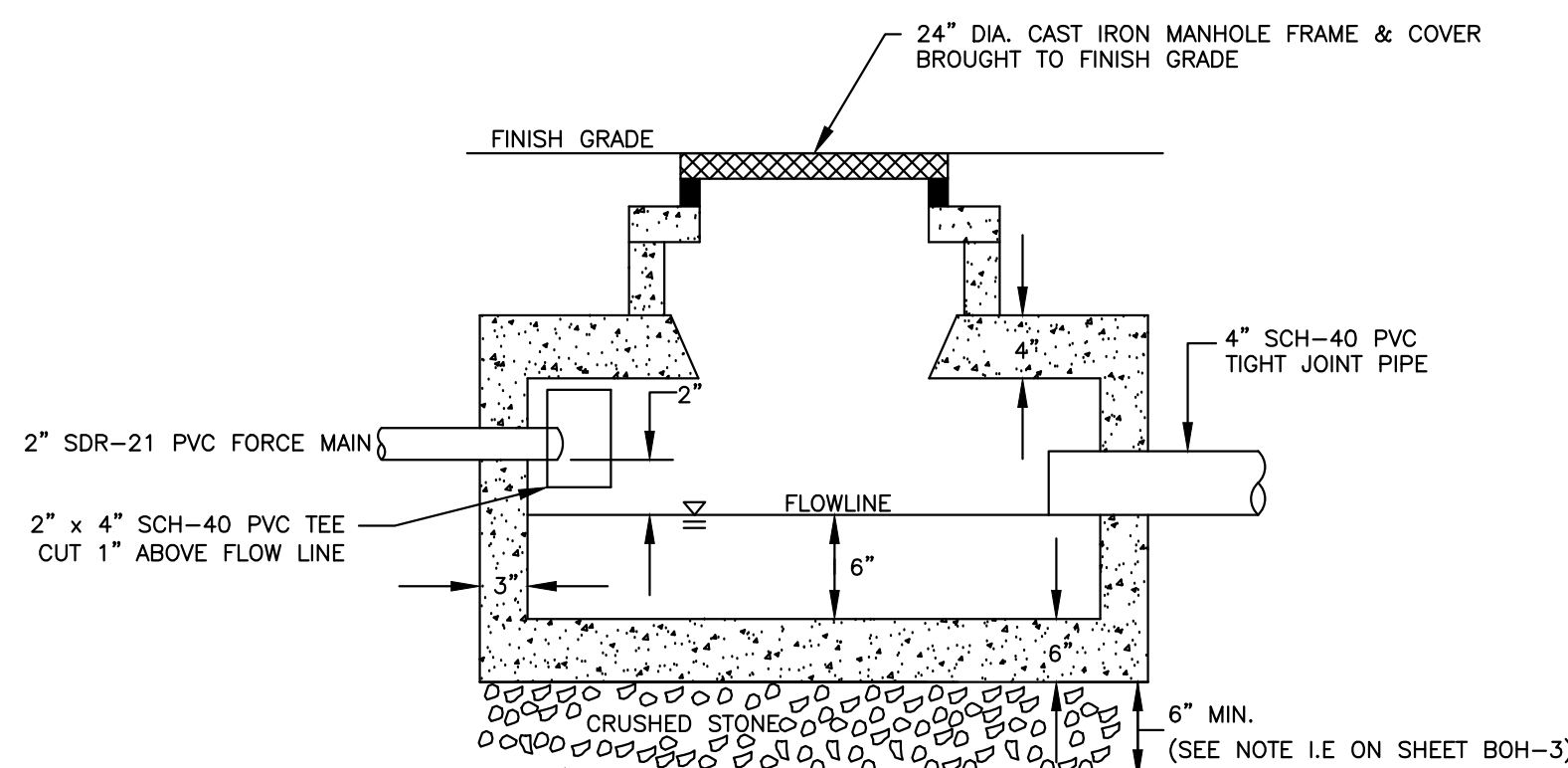


VENT

(NO SCALE)



PLAN VIEW



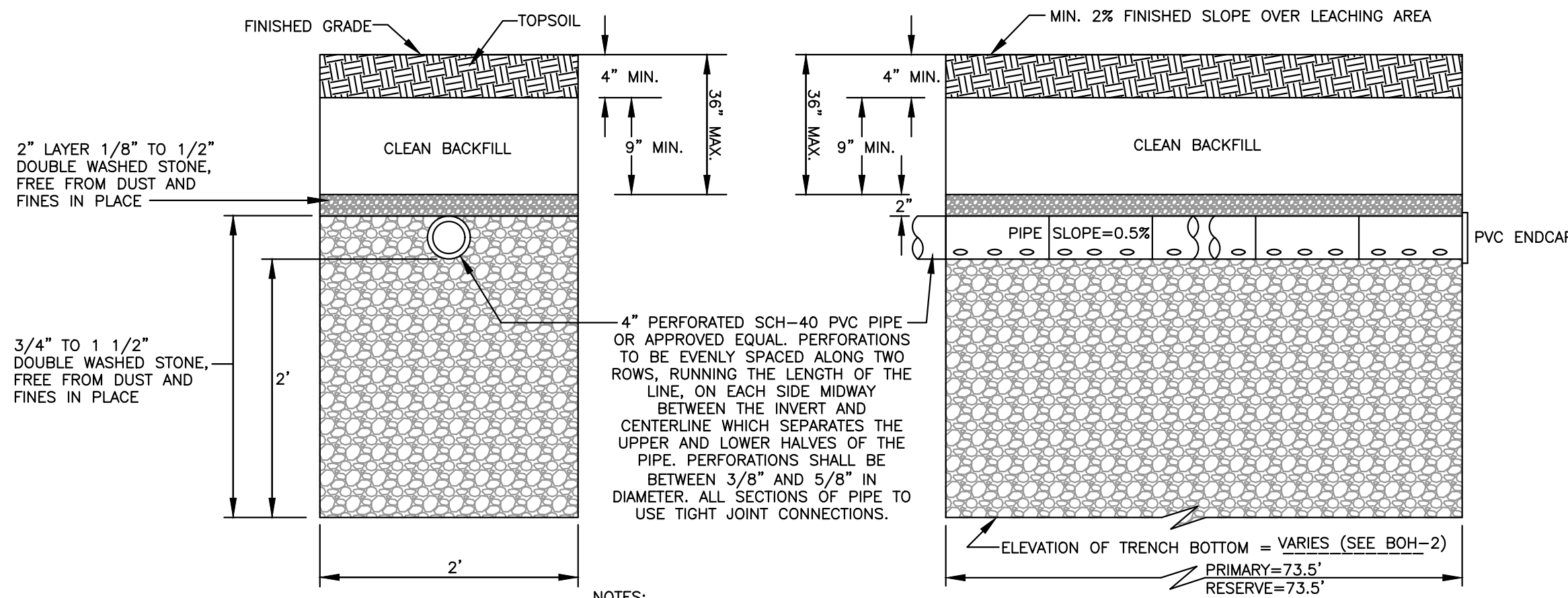
PROFILE VIEW

NOTES:

- OUTLET PIPES TO BE 4" SCH-40 PVC TIGHT JOINT.
- ALL OUTLET INVERT ELEVATIONS TO BE EQUAL. OUTLET PIPES SHALL BE LEVEL FOR AT LEAST TWO FEET. UNUSED OUTLETS TO BE PLUGGED WITH MORTAR.
- SEE PLAN FOR PIPING LAYOUT.
- DIMENSIONS SHOWN ARE BASED ON SHEA CONCRETE PRODUCTS, INC. ITEM NO. 21DBH.
- LOADING: H-20

### DISTRIBUTION BOX #1

1"=1'



NOTES:

- SIDES AND BOTTOM OF LEACHING INTERFACES TO BE SCARIFIED PRIOR TO PLACEMENT OF STONE.
- BOTTOM OF LEACHING TRENCHES TO BE LEVEL.

SECTION VIEW

PROFILE VIEW

### SOIL ABSORPTION SYSTEM

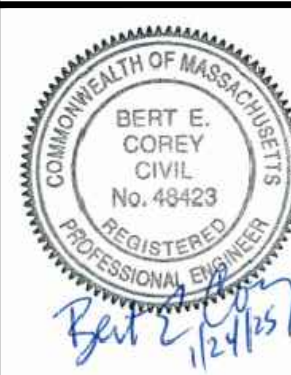
(310 CMR 15.240-15.253)  
1"=1'



APPLICANT:  
**FENIX PARTNERS BRUSH HILL, LLC**  
177 LAKE STREET  
SHERBORN, MA 01770

OWNER:  
**FENIX PARTNERS BRUSH HILL, LLC**  
ref.  
**MIDDLESEX REGISTRY OF DEEDS**  
BOOK: 81892 PAGE: 265

PARCEL ID:  
**MAP 1, LOT 0, BLOCK 18**



4	BEC	1/24/25	RAISE LEACH FIELD BY 1.0'
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DATE: **JUNE 26, 2024**

SCALE: **AS NOTED**

DESIGN:	DRAFTED:	CHECKED:
<b>KMR</b>	<b>KMR</b>	<b>BEC</b>

PROJECT TITLE:

**BRUSH HILL  
HOMES**

**34 BRUSH HILL ROAD  
SHERBORN, MA 01770**

SHEET TITLE:

**SOILS  
INFORMATION**

SHEET:  
**5 OF 5**

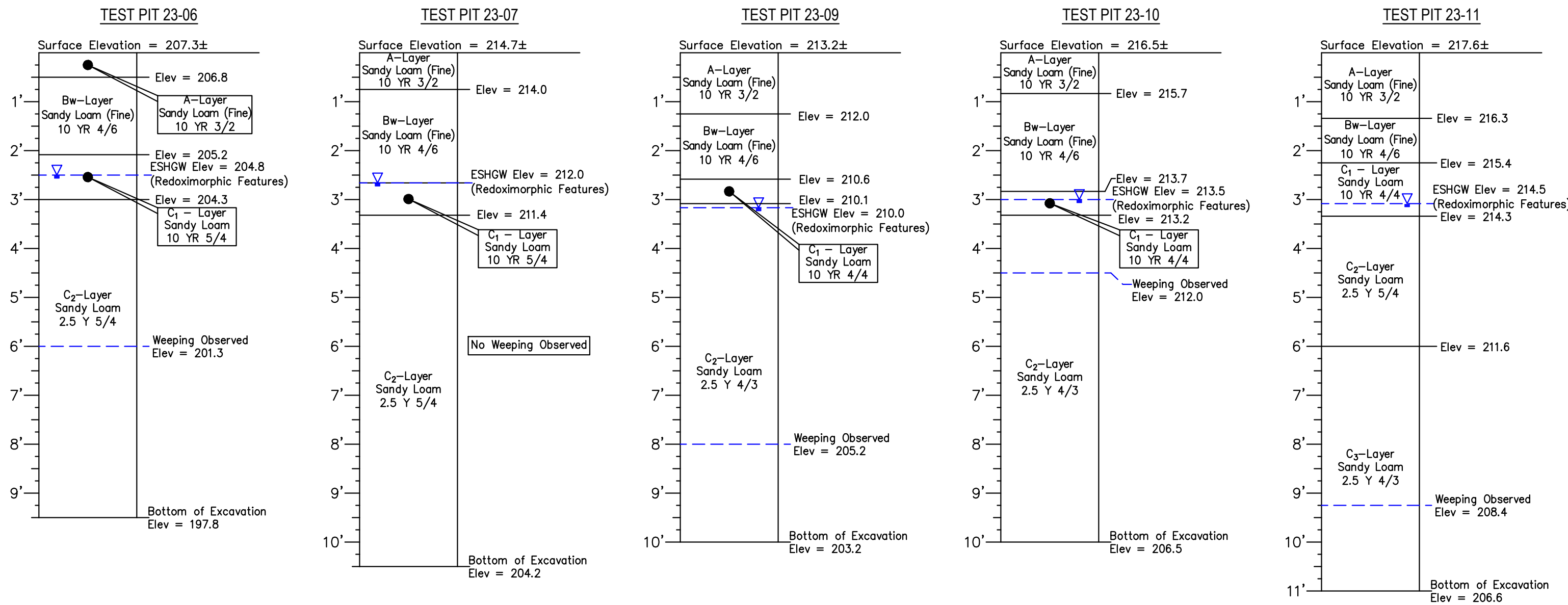
PROJECT NO.:  
**F-25889**

**BOH-5**

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### SOIL TEST DATA

DATE: OCTOBER 25 & 26, 2023  
WITNESSED BY: MARK ORAM  
OF THE SHERBORN BOARD OF HEALTH  
SOIL EVALUATOR: FREDERICK J. SCHOBEL III, E.I.T.  
SE 14561



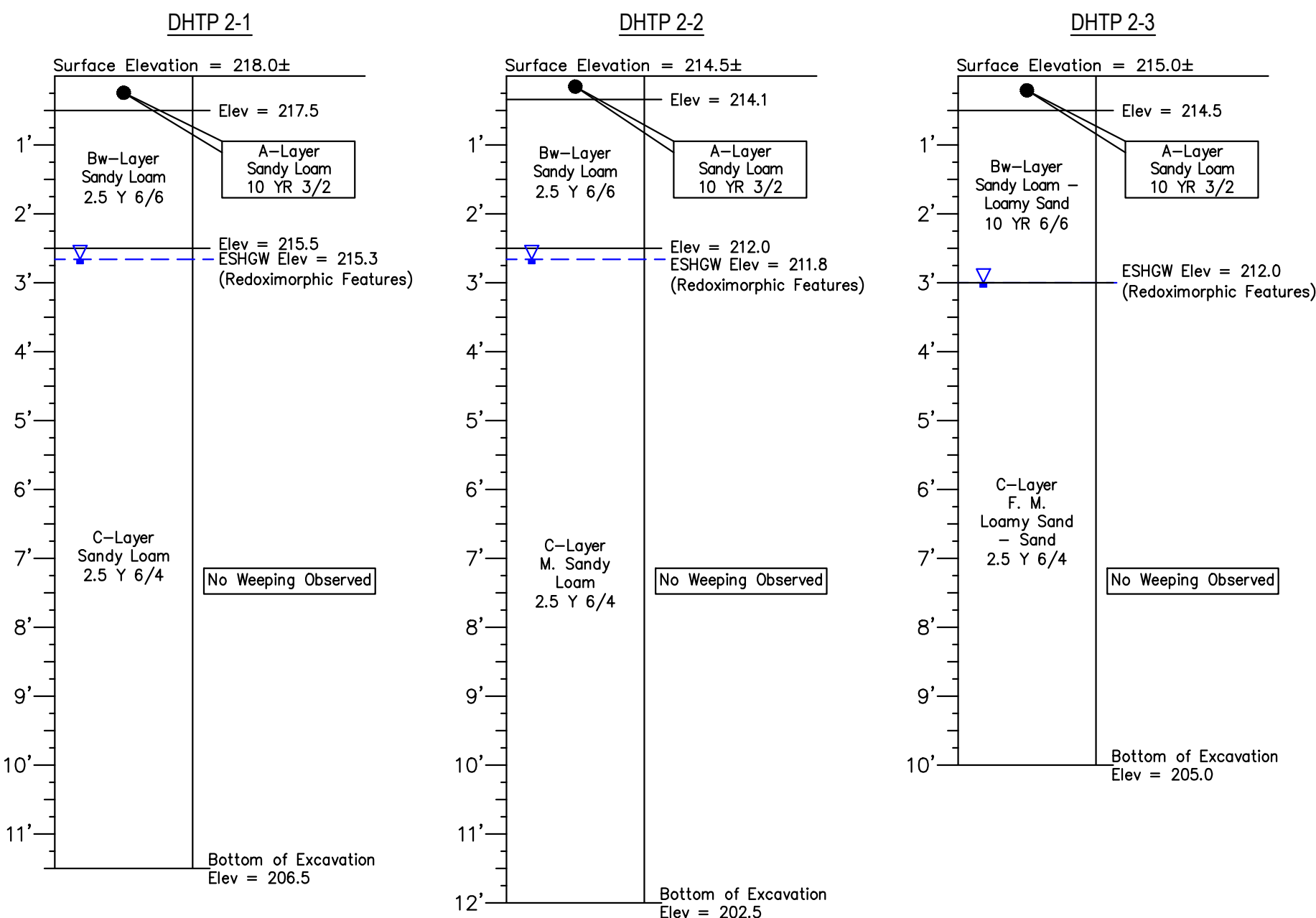
### PERCOLATION TEST DATA

TEST PIT NO.	DATE	SURFACE ELEVATION	TOP OF 12" OF WATER		INTERVAL TIME (MINUTES)		RATE: MINUTES/INCH
			DEPTH FROM TOP OF PIT	ELEVATION	12" - 9"	9" - 6"	
TH 23-09	10/26/2023	213.2	54"	208.7	41	60	20 MPI
TH 23-10a	10/26/2023	216.5	53"	212.1	TEST ABANDONED DUE TO GW INTRUSION		
TH 23-10b	10/26/2023	216.5	30"	214.0	23	42	14 MPI
TH 23-11	10/26/2023	217.6	52"	213.3	120	141	47 MPI

OUTSIDE OF SYSTEM. NOT USED IN DESIGN.

### SOIL TEST DATA

DATE: AUGUST 19, 2024  
WITNESSED BY: MARK ORAM  
OF THE SHERBORN BOARD OF HEALTH  
SOIL EVALUATOR: DESHENG WANG, PE  
SE 2545



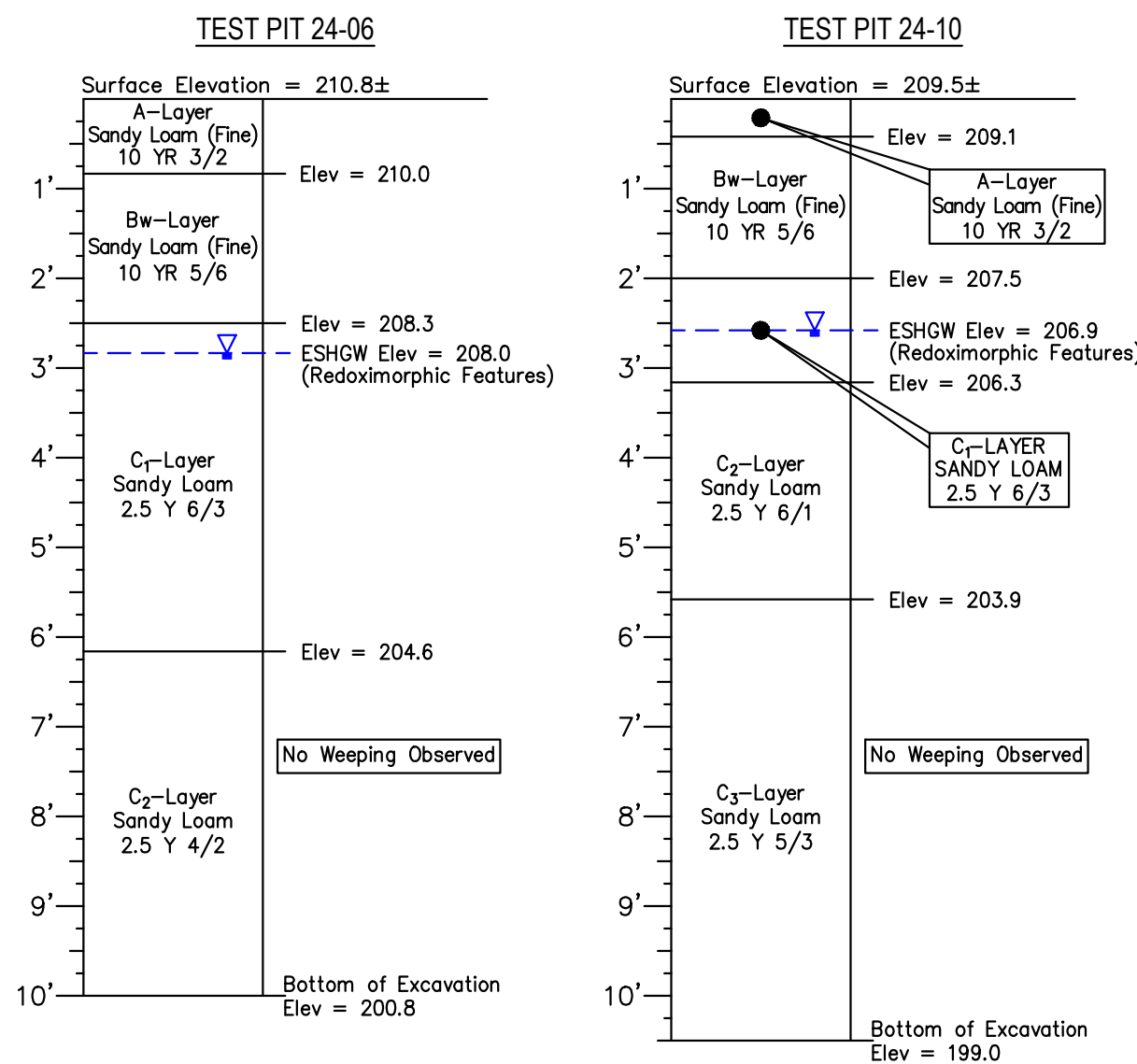
### PERCOLATION TEST DATA

TEST PIT NO.	DATE	SURFACE ELEVATION	TOP OF 12" OF WATER		INTERVAL TIME (MINUTES)		RATE: MINUTES/INCH
			DEPTH FROM TOP OF PIT	ELEVATION	12" - 9"	9" - 6"	
DHTP 2-1	8/19/2024	217.5	54"	213.9	98	199	67 MPI
DHTP 2-3	8/19/2024	214.5	50"	210.3	43	115	39 MPI
DHTP 2-2a	8/19/2024	214.0	72"	208.0	11	18	6 MPI
DHTP 2-2b	8/19/2024	214.0	30"	211.5	4	7	3 MPI

OUTSIDE OF SYSTEM. NOT USED IN DESIGN.

### SOIL TEST DATA

DATE: NOVEMBER 4, 2024  
WITNESSED BY: MARK ORAM  
OF THE SHERBORN BOARD OF HEALTH  
SOIL EVALUATOR: FREDERICK J. SCHOBEL III, E.I.T.  
SE 14561



### PERCOLATION TEST DATA

TEST PIT NO.	DATE	SURFACE ELEVATION	TOP OF 12" OF WATER		INTERVAL TIME (MINUTES)		RATE: MINUTES/INCH
			DEPTH FROM TOP OF PIT	ELEVATION	12" - 9"	9" - 6"	
TH 24-06	11/4/2024	210.8	48"	206.8	36	58	20 MPI

F:\1-258901\F-25889 Fenix 34 Brush Hill Rd Sherborn MA Correspondence\Sent\2025-01-24 to Sherborn (BOH RA)\F-25889 BOH RA.dwg