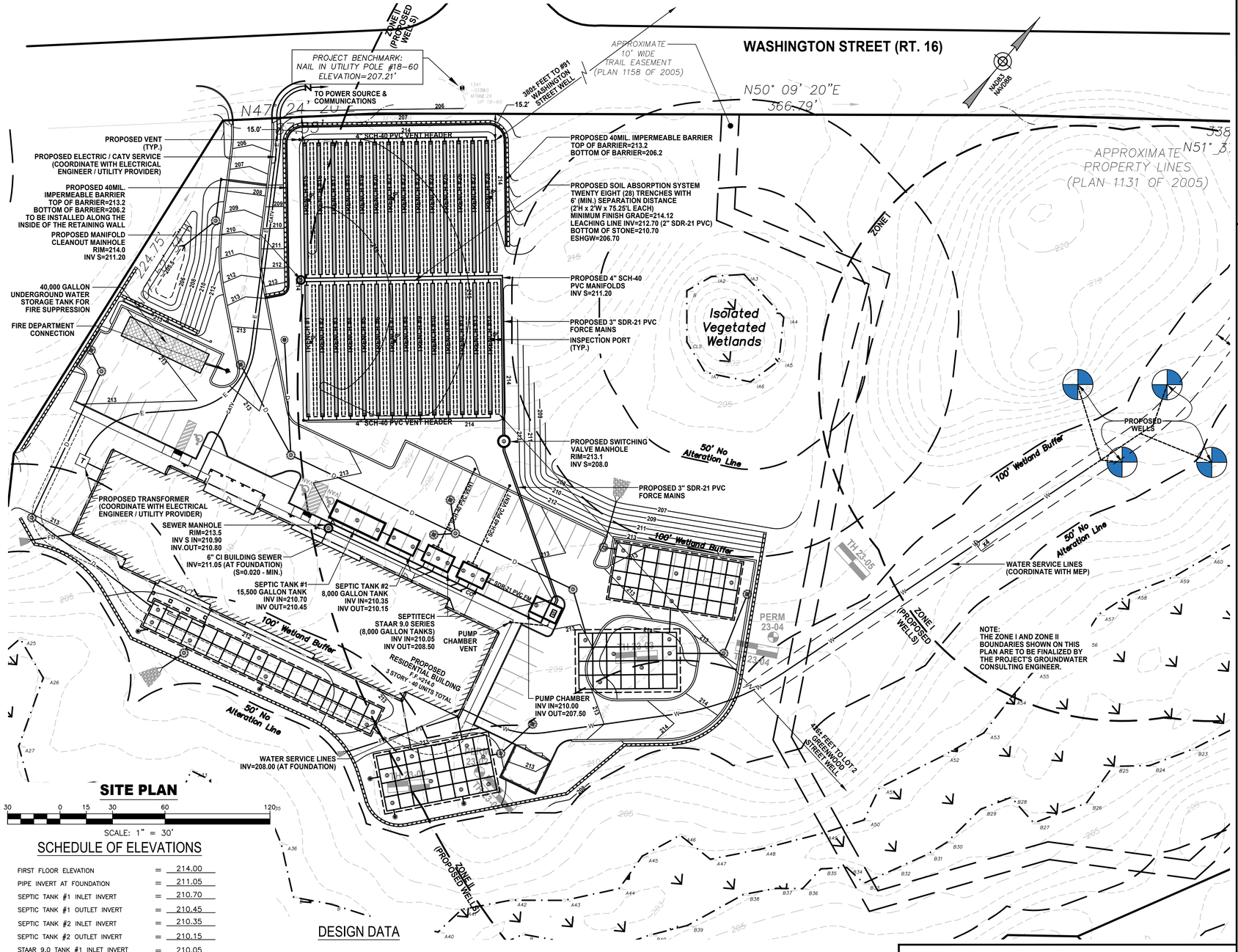

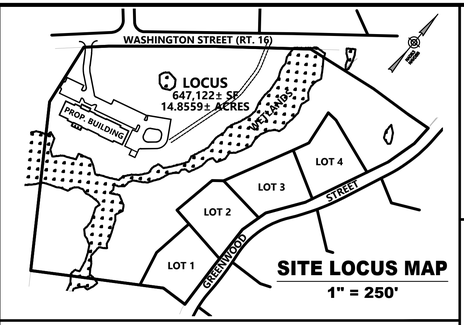

SITE LOCUS MAP
1" = 250'

GENERAL NOTES

1. PROPERTY LINE AND TOPOGRAPHIC INFORMATION SHOWN HEREON WAS OBTAINED FROM SAMIOTES CONSULTANTS, INC.
2. THE PROPOSED BUILDING CONFIGURATION AS SHOWN HEREON SHALL BE CONSIDERED CONCEPTUAL AND SHALL BE VERIFIED WITH THE FINAL ARCHITECTURAL PLANS AND CURRENT ZONING ORDINANCES PRIOR TO CONSTRUCTION.
3. IN CASES WHERE LEDGE OR BOULDERS ARE PRESENT, DGT ASSOCIATES WILL NOT BE RESPONSIBLE FOR THE AMOUNT OF ROCK ENCOUNTERED.
4. 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.
5. NO CONSTRUCTION SHALL TAKE PLACE UNTIL A DISPOSAL WORKS CONSTRUCTION PERMIT HAS BEEN ISSUED BY THE SHERBORN BOARD OF HEALTH.
6. 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.
7. THE SYSTEM INSTALLER IS RESPONSIBLE FOR NOTIFYING DGT ASSOCIATES 48 HOURS BEFORE BEGINNING CONSTRUCTION AND 48 HOURS PRIOR TO SIGNIFICANT CONSTRUCTION EVENTS TO SCHEDULE NECESSARY INSPECTIONS.
8. 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.
9. SUBSURFACE COMPONTS 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.
10. 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.
11. 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.
12. 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.
13. SEE PERMIT SITE PLAN FOR EROSION AND SEDIMENT CONTROL INSTALLATION, DETAILS, AND PERFORMANCE STANDARDS.

REGULATORY NOTES

1. THE LOCATION OF ALL UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR BY CONTACTING "DIG-SAFE" AT 811.
2. 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.
3. ALL CONSTRUCTION SHALL CONFORM TO TITLE 5 OF THE MASSACHUSETTS STATE ENVIRONMENTAL CODE (310 CMR 15.000).
4. 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.
5. CONSTRUCTION ACTIVITIES SHALL CONFORM TO THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
6. A PRECONSTRUCTION MEETING WITH THE BOARD OF HEALTH, CONSERVATION COMMISSION, DESIGN ENGINEER, AND SITE CONTRACTOR SHALL TAKE PLACE PRIOR TO ANY CONSTRUCTION ACTIVITIES.
7. 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

1. 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.
2. 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.
3. FILL REQUIRED FOR THE LEACHING AREA AS SHOWN ON THE PLANS SHALL BE COMPROMISED OF CLEAN GRANULAR SAND, FREE FROM ORGANIC MATTER AND DELETERIOUS SUBSTANCES. MIXTURES AND LAYERS OF DIFFERENT MATERIALS SHALL NOT BE USED.
4. A SIEVE ANALYSIS SHALL BE PERFORMED FROM THE FILL IN PLACE.
5. THE FILL SHALL MEET THE GRADATION REQUIREMENTS OF 310 CMR 15.55(3).
6. 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%
#50	0.30mm	10%-100%
#100	0.15mm	0%-20%
#200	0.075mm	0%-5%

SPECIAL NOTES

1. THE SUBJECT PROPERTY IS WITHIN A NITROGEN SENSITIVE AREA AS DEFINED IN 310 CMR 15.215.
2. STATEMENTS RELATIVE TO OTHER SETBACK REQUIREMENTS: TO OUR KNOWLEDGE THERE ARE:
   - YES PUBLIC WELLS WITHIN 400 FT. OF THE PROPOSED SYSTEM.
   - NO 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 OF THE PROJECT.
   - NO REGULATED FLOODPLAINS OR FLOODWAYS ARE LOCATED ON THE SUBJECT LOT.
   - YES LEACHING CATCH BASINS OR DRYWELLS ARE LOCATED NEAR COMPONENTS OF THE PROPOSED SEWAGE DISPOSAL SYSTEM.
   - NO OPEN SURFACE OR SUBSURFACE DRAINS, OR INTERCEPTOR DRAINS ARE PROPOSED FOR THIS PROJECT AND THERE ARE NO SUCH EXISTING DRAINS WITHIN 125' OF THE SOIL ABSORPTION SYSTEM.
   - YES FOUNDATION DRAINS ARE PROPOSED FOR THE SUBJECT BUILDING.
   - NO BOUNDARY OF REGULATORY FLOODWAYS.
   - NO INDUSTRIAL CATEGORY OR PROHIBITED WASTEWATERS ARE PROPOSED FOR THIS PROJECT.

SOIL TESTING & ESHGWT NOTES

1. SOIL TESTING COMPLETED WITHIN THE LIMIT OF THE PROPOSED SOIL ABSORPTION SYSTEM WAS COMPLETED BY DESHENG WANG, Ph.D., P.E. AND WITNESSED BY MARK ORAM OF THE SHERBORN BOARD OF HEALTH ON NOVEMBER 14 AND 15, 2022.
2. PER 310 CMR 15.240(12) THE DESIGN ESTIMATED SEASONAL HIGH GROUNDWATER TABLE (ESHGWT) INCLUDES ADDING 1.2' TO THE ESHGWT, AS DETERMINED BY SIGNS OF REDOXIMORPHIC FEATURES, BASED ON A MOUNDING ANALYSIS USING THE THE HANTUSH TIME & DISTANCE MOUNDING ANALYSIS APPLICATION BY GEOHYDROCYCLE, INC.
3. ADDITIONAL SOIL TESTING WAS COMPLETED BY DGT ASSOCIATES FOR THE DESIGN OF THE PROPOSED STORMWATER MANAGEMENT FACILITIES ON DECEMBER 5, 2023. SEE THE PERMIT SITE PLAN SET PREPARED BY DGT ASSOCIATES DATED JANUARY 23, 2024 FOR DEEP TEST HOLE INFORMATION OUTSIDE OF THE LIMIT OF THE SAS.

SCHEDULE OF ELEVATIONS

FIRST FLOOR ELEVATION	=	214.00
PIPE INVERT AT FOUNDATION	=	211.05
SEPTIC TANK #1 INLET INVERT	=	210.70
SEPTIC TANK #1 OUTLET INVERT	=	210.45
SEPTIC TANK #2 INLET INVERT	=	210.35
SEPTIC TANK #2 OUTLET INVERT	=	210.15
STAAR 9.0 TANK #1 INLET INVERT	=	210.05
STAAR 9.0 TANK #1 OUTLET INVERT	=	209.85
STAAR 9.0 TANK #2 INLET INVERT	=	209.75
STAAR 9.0 TANK #2 OUTLET INVERT	=	208.50
PUMP CHAMBER INLET INVERT	=	210.00
PUMP CHAMBER OUTLET INVERT	=	207.50
MANIFOLD CLEANOUT MH INLET INVERT	=	211.20
MANIFOLD CLEANOUT MH OUTLET INVERT	=	211.20
LATERAL ELEVATIONS (INVERTS)	=	212.70
MANIFOLD ELEVATION	=	211.20
BOTTOM OF STONE ELEVATION	=	210.70
*DESIGN GROUNDWATER ELEVATION	=	206.70
NUMBER OF ORIFICES PER LATERAL	=	17
MANIFOLD TO FIRST ORIFICE	=	3.25 FEET
ORIFICE SPACING	=	4.5 FEET
DIAMETER OF ORIFICES	=	3/16"

*SEE SOIL TESTING AND ESHGW NOTE #2

DESIGN DATA

FLOW CALCULATIONS

1.	BUILDING USE:	RESIDENTIAL
2.	NUMBER OF BEDROOMS:	70
3.	DESIGN FLOW - TITLE 5:	110 GPD/BEDROOM
4.	TOTAL DAILY FLOW - TITLE 5:	7,700 GALLONS

SYSTEM REQUIREMENTS

1.	DESIGN PERCOLATION RATE:	13 MINUTES PER INCH
2.	SOIL CLASS:	CLASS II
3.	LONG TERM ACCEPTANCE RATE (LTAR):	0.61 GAL/SF
4.	TOTAL AREA REQUIRED - TITLE 5:	12,623 SF
5.	TOTAL AREA PROVIDED:	12,642 SF

SEPTIC TANK CALCULATIONS

VOLUME COMPARTMENT #1 (200% DAILY FLOW):	15,400 GALLONS
VOLUME COMPARTMENT #2 (100% DAILY FLOW):	7,700 GALLONS
MINIMUM REQUIRED SEPTIC TANK VOLUME:	23,100 GALLONS
PROVIDED SEPTIC TANK #1:	15,500 GALLONS
PROVIDED SEPTIC TANK #2:	8,000 GALLONS
TOTAL VOLUME PROVIDED:	23,500 GALLONS

LEGEND

123	PROPOSED CONTOUR ELEVATION
D	PROPOSED DRAIN LINE
RD	PROPOSED ROOF DRAIN
DMH(D)	PROPOSED DRAIN MANHOLE
STU(D)	PROPOSED STORMWATER TREATMENT UNIT
CB	PROPOSED DEEP SUMP CATCH BASIN
AD	PROPOSED AREA DRAIN
OCS(D)	PROPOSED OUTLET CONTROL STRUCTURE
SMH(S)	PROPOSED SEWER MANHOLE
HDPE	HIGH DENSITY POLYETHYLENE
+123.4	PROPOSED SPOT ELEVATION
T.C.=123.4	PROPOSED TOP OF CURB ELEVATION
B.C.=123.4	PROPOSED BOTTOM OF CURB ELEVATION
T.W.=123.4	PROPOSED TOP OF WALL ELEVATION
B.W.=123.4	PROPOSED BOTTOM OF WALL ELEVATION

BIO-MICROBICS OF MAINE, INC. - SEPTITECH STAAR 9.0 NOTES

1. SYSTEM TO BE INSTALLED IN ACCORDANCE WITH PRODUCT DESIGN AND INSTALLATION MANUAL, STATE AND LOCAL REGULATIONS. FOR PRODUCT INFORMATION OR THE NEAREST DEALER CONTACT BIO-MICROBICS OF MAINE, INC., 69 HOLLAND STREET, LEWISTON, ME 04240 - PHONE 1-800-753-3278 WWW.BIOMICROBICS.COM.
2. THE SYSTEM IS TO BE INSPECTED, OPERATED, AND MAINTAINED BY A CERTIFIED PROFESSIONAL PER THE DEPARTMENT OF ENVIRONMENTAL PROTECTION'S MODIFIED PROVISIONAL USE APPROVAL/RENEWAL LETTER LATEST MODIFIED AUGUST 31, 2023, THE SEPTITECH OPERATION AND MAINTENANCE MANUAL UPDATED SEPTEMBER 8, 2014, AND THE DEP APPROVED INSPECTION AND O&M FORM FOR TITLE 5 I/A TREATMENT AND DISPOSAL SYSTEMS.
3. A DEED DISCLOSURE NOTICE FOR THE USE OF THIS SYSTEM WILL BE RECORDED AT THE SOUTH MIDDLESEX REGISTRY OF DEEDS PRIOR TO USE OF THE SYSTEM AND THE OWNER WILL NOTIFY ANY FUTURE OWNER OR OPERATOR OF THE SYSTEM'S REQUIREMENTS.

DGT Associates
Surveying & Engineering

Framingham
Boston • Worcester • Preston, CT

1071 Worcester Road
Framingham, MA 01701
508-879-0030

www.DGTassociates.com

APPLICANT:
WASHINGTON STREET SHERBORN HOMES, LLC
177 LAKE STREET
SHERBORN, MA 01770

OWNER:
AB REALTY TRUST
JANE HAMROCK & MARY BUNTIN, TRUSTEES
7 JOSEPH STREET
HYANNIS, MA 02601

PARCEL ID:
MAP 7, LOT 0, BLOCK 49

ISSUED FOR:
SUBSURFACE SEWAGE DISPOSAL SYSTEM DESIGN

JOSEPH A. LOSANNO CIVIL No. 56015 REGISTERED PROFESSIONAL ENGINEER
2/9/24

NO.	APP	DATE	DESCRIPTION

DATE: **FEBRUARY 9, 2024**

SCALE: **1" = 30'**

DESIGN:	DRAFTED:	CHECKED:
KMR/JAL	KMR/JAL	JAL/BEC

PROJECT TITLE:
WASHINGTON STREET SHERBORN HOMES
0 WASHINGTON STREET
SHERBORN, MASSACHUSETTS 01770

SHEET TITLE:
SUBSURFACE SEWAGE DISPOSAL SYSTEM PLAN

SHEET: **1 OF 5**

PROJECT NO.: **F-25902**

BOH-1

F:\F-25900\F-25902 Murchison Washington St Sherborn_Correspondence\Jan\1_2024-02-09 Submittal to Town\F25902 BOH.dwg

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SEWAGE DISPOSAL SYSTEM GENERAL PERFORMANCE, INSTALLATION AND STANDARDS NOTES

I. GENERAL CONSTRUCTION REQUIREMENTS FOR SEPTIC TANKS AND PUMP CHAMBER

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'c=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: (SEE DETAILS)
(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 OF 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 SEWER:
1. THE BUILDING SEWER SHALL BE SEPARATED FROM A PRIVATE WATER SUPPLY WELL, OR SUCTION LINE, BY A MINIMUM OF TEN (10) FEET.
2. THE BUILDING SEWER SHALL BE CONSTRUCTED OF CORROSION RESISTANT MATERIAL AS SPECIFIED ON THE DESIGN PLANS.
3. THE BUILDING SEWER 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 SEWER 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 SEWER OR BUILDING DRAIN.
6. ALL BUILDING SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STATE PLUMBING CODE 248 CMR.
7. ALL SEWER PIPE SHOWN LABELED AS SCH–40 PVC IS TO CONFORM TO ASTM D 1785 GENERAL PURPOSE SEWER PIPE.

B. SEPTIC TANKS: (UNLESS OTHERWISE SHOWN ON THE PLAN)
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 TANKS 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.

C. SOIL ABSORPTION SYSTEM: (UNLESS OTHERWISE SHOWN ON THE PLAN)
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 AND FILL 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 FACILITY 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 TWO (2) INCH LAYER OF DOUBLE WASHED STONE RANGING FROM 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 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. ALL SOIL ABSORPTION SYSTEMS SHALL HAVE A MINIMUM OF ONE (1) INSPECTION PORT CONSISTING OF A PERFORATED FOUR (4) INCH PIPE PLACED VERTICALLY DOWN INTO THE STONE TO THE NATURALLY OCCURING 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.
14. SOIL ABSORPTION SYSTEM PIPING
   A. THE MANIFOLD SHALL BE 4 INCH SCH–40 PVC OR APPROVED EQUAL AND SHALL SLOPE TO DRAIN BACK TO THE FORCEMAIN AT 0.005 FT/FT.
   B. ALL CONNECTIONS AND JOINTS SHALL BE WATER TIGHT AND MECHANICALLY SOUND.
   C. EFFLUENT DISTRIBUTION LINES (LATERALS) SHALL BE 2 INCH SDR–21 PVC OR APPROVED EQUAL.
   D. EFFLUENT DISTRIBUTION LINE ORIFICES SHALL BE EVENLY SPACED ALONG THE BOTTOM OF THE LINE (6 O'CLOCK POSITION) EXCEPT FOR THE LAST ORIFICE (WHICH IS TO BE AT THE 12 O'CLOCK POSITION). ALL ORIFICES SHALL BE COVERED WITH AN ORIFICE SHIELD. THERE SHALL BE 17 ORIFICES IN EACH LATERAL AT 4.5' SPACING.

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. DOSING CHAMBER:
   A. DOSING CHAMBER SHALL BE A 10,500 GALLON 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 48"X30" ACCESS DOOR SHALL BE INSTALLED OVER THE PUMPS. THE ACCESS DOOR SHALL BE BROUGHT TO FINISHED GRADE AND EMBEDDED IN A CONCRETE COLLAR TO MAINTAIN AN H–20 LOADING. THE ACCESS DOOR (ALUMINUM, H–20 LOADING, SINGLE LEAF, WATERTIGHT, AIRTIGHT; OR APPROVED EQUAL) SHALL BE SECURED TO PREVENT UNAUTHORIZED ACCESS.

3. PUMPS AND MOTORS:
   A. THE PUMPS AND MOTORS SHALL BE A HEAVY DUTY SEWAGE EJECTOR PUMP WITH A MINIMUM 3 INCH DISCHARGE AND ABLE TO PASS A 2.5 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 GOULDS WS2012D3 PUMPS WITH A 7.00 INCH (STANDARD) IMPELLER, OR AN EQUIVALENT APPROVED BY DGT ASSOCIATES.
      THE PUMP SHALL BE RATED AS FOLLOWS:
      A) 2.0 HORSEPOWER
      B) 180 GALLONS PER MINUTE
      C) 30.5 FEET, TOTAL DYNAMIC HEAD (VELOCITY=8.4 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 THE BUILDING.
   (D) THE DUPLEX CONTROL PANEL SHALL BE EQUIPPED WITH A RUN TIME METER AND COUNTER FOR EACH PUMP.

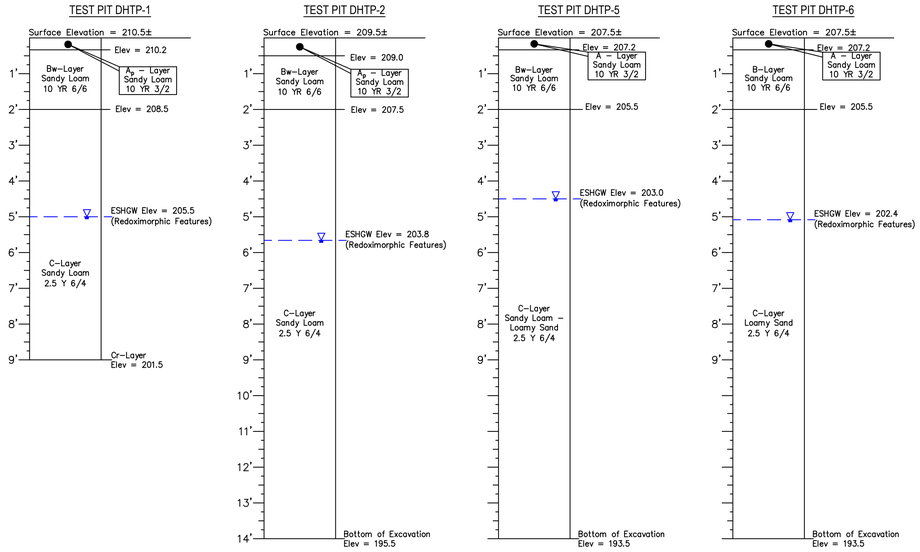
   (6) ALARM:
   (A) A HIGH WATER ALARM SHALL BE SUPPLIED WITH BOTH AN AUDIBLE AND VISUAL ALARM WITH A POWER SUPPLY SEPARATE FROM THE PUMP. THE ALARM SHALL BE MOUNTED IN A NEMA–4 ENCLOSURE. AN ALARM SILENCER BUTTON SHALL BE PROVIDED TO SILENCE THE AUDIBLE ALARM WHILE THE VISUAL REMAINS ILLUMINATED UNTIL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

   (7) PIPING:
   A. THE PUMP CHAMBER DISCHARGE PIPING AND FITTINGS SHALL BE 3–INCH SDR–21 PVC WITHIN THE PUMP CHAMBER TO THE VALVE VAULT. THE FOLLOWING SHALL BE INSTALLED WITHIN THE PUMP CHAMBER FOR EACH PUMP. IN THE VERTICAL POSITION: A 3–INCH BALL–TYPE CHECK VALVE; IN THE HORIZONTAL POSITION: A 3–INCH QUICK DISCONNECT UNION. PIPING, VALVES, AND FITTINGS SHALL BE ARRANGED SO THAT THEY ARE EASILY ACCESSIBLE FROM THE PUMP CHAMBER COVER. NOTE:BALL VALVES FOR EACH PUMP AND A CROSS OVER VALVE ARE TO BE LOCATED IN A VALVE MANHOLE.
   B. THE FORCE MAIN PIPING SHALL BE 3–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 4–INCH DISTRIBUTION MANIFOLD AT THE SOIL ABSORPTION SYSTEM.
   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.

   (8) DOSING REQUIREMENTS:
   A. PURSUANT TO 310 CMR 15.254: DOSING, THE SYSTEM HAS BEEN DESIGNED TO PROVIDE 6 DOSES PER DAY, EQUAL TO 1,453 GALLONS PER DOSE.
   B. ADDITIONAL STORAGE PROVIDED IN THE PUMP CHAMBER, ABOVE THE HIGH WATER ALARM LEVEL IS APPROXIMATELY 7,700 GALLONS. IN THE EVENT OF A POWER FAILURE, THERE IS SUFFICIENT CAPACITY TO PROVIDE APPROXIMATELY 24 HOURS OF STORAGE.

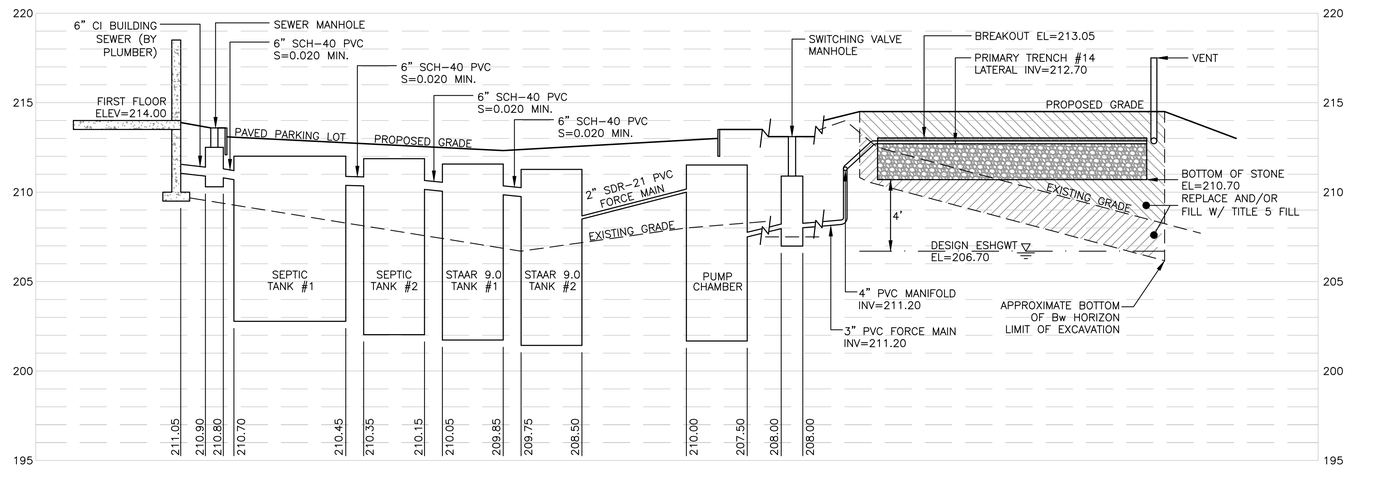
SOIL TEST DATA

DATE: NOVEMBER 14 & 15, 2022
WITNESSED BY: MARK ORAM
OF THE SHERBORN BOARD OF HEALTH
SOIL EVALUATOR: DESHENG WANG, Ph.D., P.E.
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–1	11/14/2022	209.5	48"	205.5	23	30	10 MPI
DHTP–2	11/14/2022	209.5	54"	205.0	34	38	13 MPI
DHTP–5	11/15/2022	207.5	48"	203.5	13	13	5 MPI



SUBSURFACE SEWAGE DISPOSAL SYSTEM PROFILE

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 4'

DGT Associates
Surveying & Engineering
Framingham
Boston • Worcester • Preston, CT
1071 Worcester Road
Framingham, MA 01701
508-879-0030
www.DGTassociates.com

APPLICANT:
WASHINGTON STREET SHERBORN HOMES, LLC
177 LAKE STREET
SHERBORN, MA 01770

OWNER:
AB REALTY TRUST
JANE HAMROCK & MARY BUNTIN, TRUSTEES
7 JOSEPH STREET
HYANNIS, MA 02601

PARCEL ID:
MAP 7, LOT 0, BLOCK 49

ISSUED FOR:
SUBSURFACE SEWAGE DISPOSAL SYSTEM DESIGN

COMMONWEALTH OF MASSACHUSETTS
JOSEPH A. LOSANNO
CIVIL
No. 56015
REGISTERED PROFESSIONAL ENGINEER
2/4/24

NO.	APP	DATE	DESCRIPTION

DATE: **FEBRUARY 9, 2024**

SCALE: **1" = 30'**

DESIGN:	DRAFTED:	CHECKED:
KMR/JAL	**KMR/JAL**	**JAL/BEC**

PROJECT TITLE:
WASHINGTON STREET SHERBORN HOMES
0 WASHINGTON STREET
SHERBORN, MASSACHUSETTS 01770

SHEET TITLE:
SEWAGE DISPOSAL SYSTEM COMPONENT PROFILE & NOTES & SOILS INFO.

SHEET: **2 OF 5**
PROJECT NO.: **F-25902**
BOH-2

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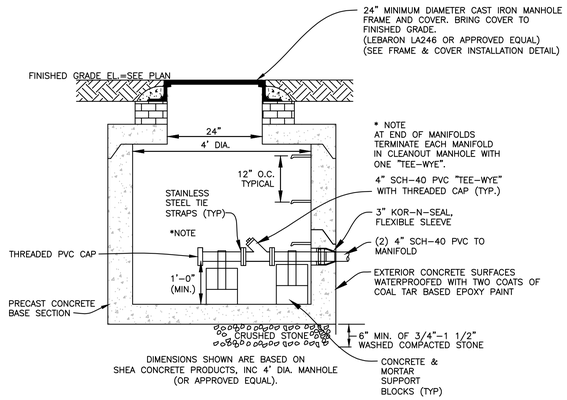
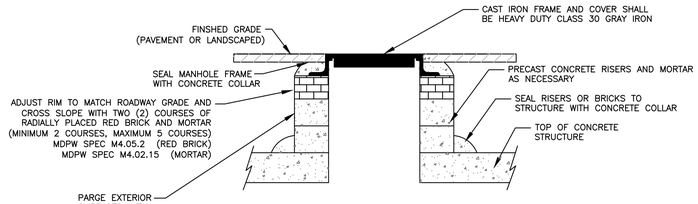
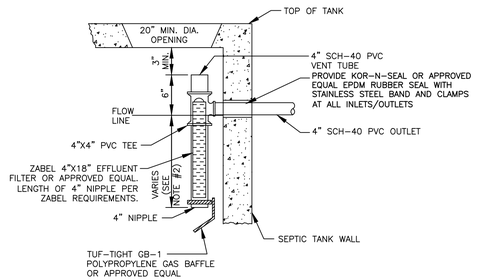


MANIFOLD CLEANOUT MANHOLE
(NO SCALE)



FRAME & COVER INSTALLATION DETAIL
(NO SCALE)

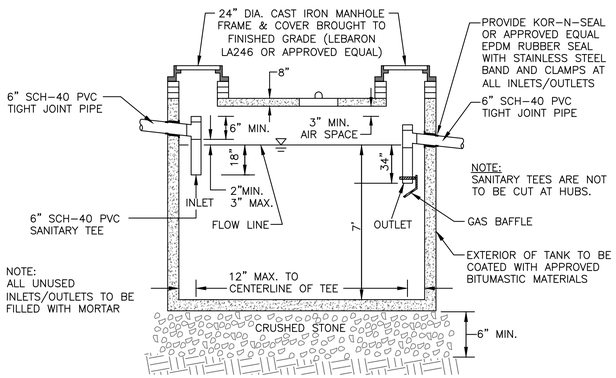


NOTES:
1. ALL PIPING IS 4" SCH-40 PVC
2. THE OUTLET SHALL BE PROVIDED WITH A TEE EXTENDING BELOW THE FLOW LINE IN ACCORDANCE WITH THE FOLLOWING TABLE:

LIQUID DEPTH IN SEPTIC TANK	DEPTH OF OUTLET BELOW FLOW LINE
4 FEET	14 INCHES
5 FEET	19 INCHES
6 FEET	24 INCHES
7 FEET	29 INCHES
8 FEET	34 INCHES

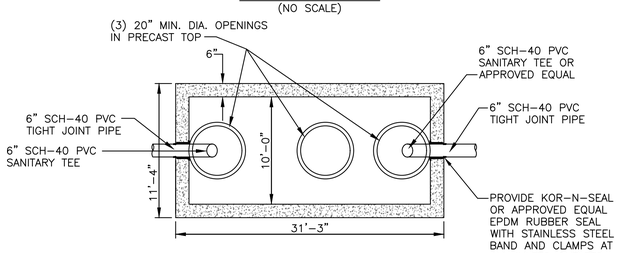
OUTLET TEE WITH EFFLUENT FILTER
(NO SCALE)

PROFILE VIEW
(NO SCALE)



NOTE:
IF SIDE INLETS OR OUTLETS ARE USED, SANITARY TEES MUST BE BROUGHT TO THE CENTERLINE OF THE TANK AND LOCATED WITHIN 12" OF THE ENDWALL. TEE(S) SHALL BE SECURED TO TOP OF TANK WITH STAINLESS STEEL STRAPS AND 1/4" LAG BOLTS OR EQUAL UNUSED OUTLETS TO BE PLUGGED WITH MORTAR.

PLAN VIEW
(NO SCALE)



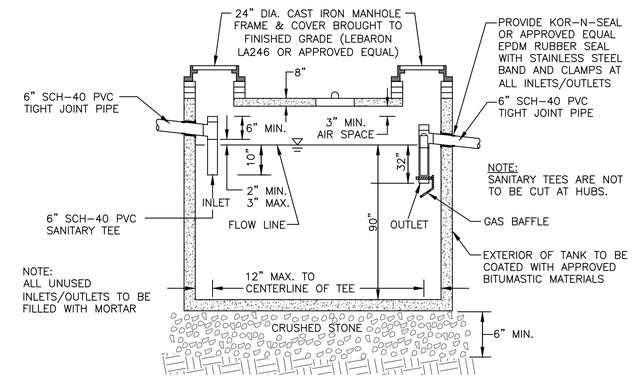
MATERIAL:
PRECAST REINFORCED CONCRETE (OR APPROVED EQUAL).

CAPACITY = 15,500 GALLONS
H-20 LOADING (MINIMUM)

DIMENSIONS SHOWN ARE BASED ON SHEA CONCRETE PRODUCTS, INC. TUNNEL TANK (OR APPROVED EQUAL).

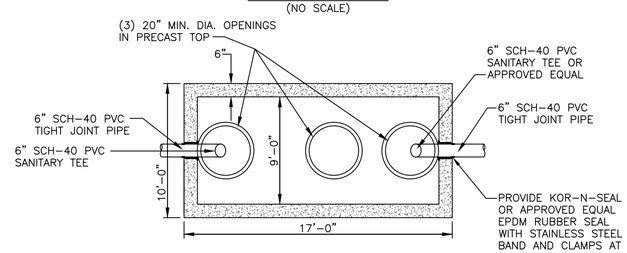
SINGLE COMPARTMENT SEPTIC TANK #1
(310 CMR 15.223-15.229)
(NO SCALE)

PROFILE VIEW
(NO SCALE)



NOTE:
IF SIDE INLETS OR OUTLETS ARE USED, SANITARY TEES MUST BE BROUGHT TO THE CENTERLINE OF THE TANK AND LOCATED WITHIN 12" OF THE ENDWALL. TEE(S) SHALL BE SECURED TO TOP OF TANK WITH STAINLESS STEEL STRAPS AND 1/4" LAG BOLTS OR EQUAL UNUSED OUTLETS TO BE PLUGGED WITH MORTAR.

PLAN VIEW
(NO SCALE)

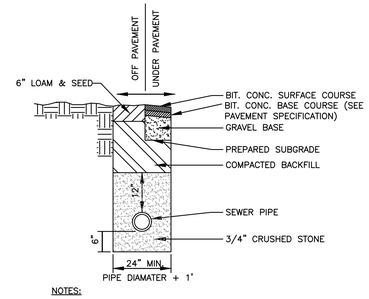


MATERIAL:
PRECAST REINFORCED CONCRETE (OR APPROVED EQUAL).

CAPACITY = 8,000 GALLONS
H-20 LOADING (MINIMUM)

DIMENSIONS SHOWN ARE BASED ON SHEA CONCRETE PRODUCTS, INC. ITEM NO. 10X17-802C (OR APPROVED EQUAL).

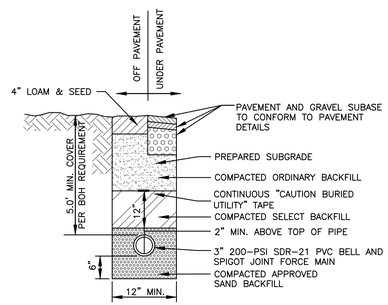
SINGLE COMPARTMENT SEPTIC TANK #2
(310 CMR 15.223-15.229)
(NO SCALE)



NOTES:

1. TRENCH BACKFILL SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS AS CONTAINED IN MASSACHUSETTS HIGHWAY DEPARTMENT; STANDARDS AND SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, 1988.

TYPICAL SEWER PIPE BEDDING
(NO SCALE)



NOTES:

1. TRENCH BACKFILL SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS AS CONTAINED IN MASSACHUSETTS HIGHWAY DEPARTMENT; STANDARDS AND SPECIFICATIONS FOR HIGHWAYS AND BRIDGES.
2. SAND BACKFILL FOR FORCE MAIN BEDDING SHALL CONFORM WITH M1.04.0 TYPE B "SAND BORROW".
3. SELECT BACKFILL SHALL BE ON-SITE SOIL OR IMPORTED BACKFILL CONFORMING WITH M.1.02.0 (a) "SPECIAL BORROW" WITH NO STONES LARGER THAN 3 INCHES.
4. 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)

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Framingham
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COMMONWEALTH OF MASSACHUSETTS
JOSEPH A. LOSANNO
CIVIL
No. 56015
REGISTERED PROFESSIONAL ENGINEER
2/9/24

NO.	APP	DATE	DESCRIPTION

DATE: **FEBRUARY 9, 2024**

SCALE: **1" = 30'**

DESIGN:	DRAFTED:	CHECKED:
KMR/JAL	KMR/JAL	JAL/BEC

PROJECT TITLE:
WASHINGTON STREET SHERBORN HOMES
0 WASHINGTON STREET
SHERBORN, MASSACHUSETTS 01770

SHEET TITLE:
DETAILS #1

SHEET: **3 OF 5**

PROJECT NO.: **F-25902**

BOH-3

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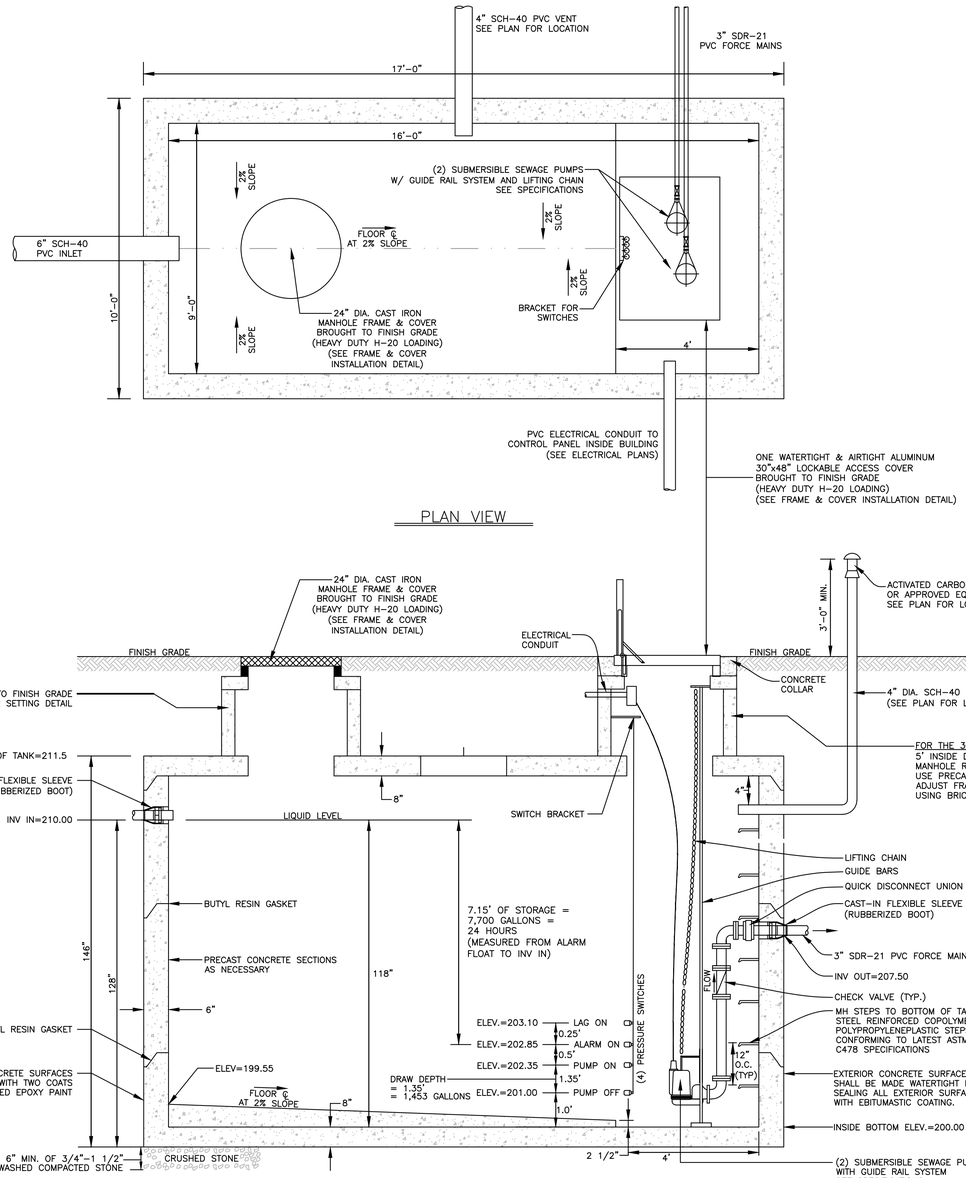
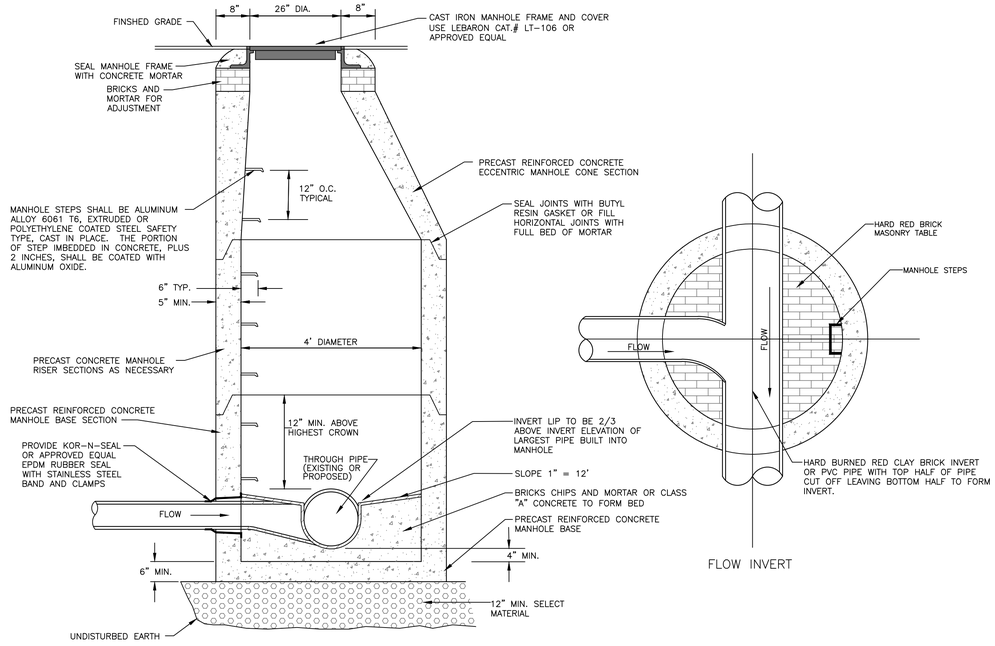


DIMENSIONS SHOWN ARE BASED ON
SHEA CONCRETE PRODUCTS 10,500 GALLON COMMERCIAL LINE TANK
ITEM NO. 10X17-105 (OR APPROVED EQUAL)

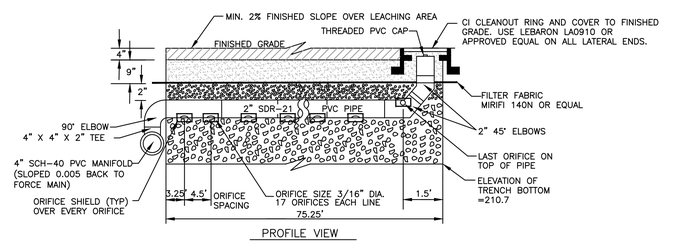
PUMP CHAMBER DETAIL

(NO SCALE)



SEWER MANHOLE DETAIL

(NO SCALE)



SOIL ABSORPTION SYSTEM

(NO SCALE)

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JANE HAMROCK & MARY BUNTIN, TRUSTEES
7 JOSEPH STREET
HYANNIS, MA 02601

PARCEL ID:

MAP 7, LOT 0, BLOCK 49

ISSUED FOR:

SUBSURFACE SEWAGE DISPOSAL SYSTEM DESIGN

COMMONWEALTH OF MASSACHUSETTS
JOSEPH A. LOSANNO
CIVIL
No. 56015
REGISTERED PROFESSIONAL ENGINEER
2/9/24

NO.	APP	DATE	DESCRIPTION

DATE: **FEBRUARY 9, 2024**

SCALE: **1" = 30'**

DESIGN:	DRAFTED:	CHECKED:
KMR/JAL	KMR/JAL	JAL/BEC

PROJECT TITLE:

WASHINGTON STREET SHERBORN HOMES

0 WASHINGTON STREET
SHERBORN, MASSACHUSETTS 01770

SHEET TITLE:

DETAILS #2

SHEET: **4 OF 5**

PROJECT NO.: **F-25902**

BOH-4

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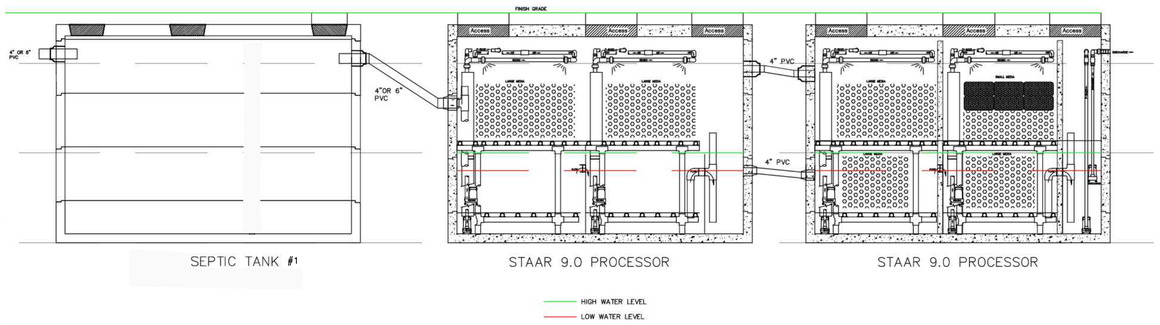
GENERAL NOTES

- Tank(s) shall not be installed at a depth any greater than 24-inches. Tank installations requiring a depth greather than 24-inches shall do so with prior approval by SeptiTech only. Any risers required to bring the aluminum hatches to grade are the responsibility of the contractor.
- Tank(s) shall be installed with a minimum of 12-inches of compacted crushed stone bedding. Select fill shall be used for backfilling around tanks. Native material may be used if approved by the design engineer.
- Water Testing: Contractor is responsible for water testing the concrete tank(s) once the tank(s) installation has been completed and allowed to set overnight. Water testing shall be conducted in accordance with ASTM C1227.9.2. Installing contractor shall be responsible for providing clean water for the testing, filling the tanks, and pumping the tanks dry once testing is completed.
- Exterior Piping: Contractor is responsible for supplying and installing all exterior piping per SeptiTech installation drawings.
- Air Intake Piping: Air intake snorkel shall be installed within 100 feet of the processor tank. Air intake piping shall be installed such that a positive pitch is provided back towards the processor tank such that any condenstation build up is free to drain.
- Pipe Insulation: Contractor is responsible for insulating all piping exterior to the SeptiTech processor including the discharge line from the processor to the disposal field.
- Tank Insulation: After concrete tanks have been installed and water testing is completed, contractor shall insulate the top and sides of the processor tank below frost depth (4-feet minimum) down the sides of the tank with 2" rigid foam (blue) board insulation and then complete backfilling. Contractor is also responsible for installing insulation over the top of the forcemain from the SeptiTech system to the disposal field if not buried below frost level in order to prevent freezing.
- Electrical: All electrical work is the responsibility of the contractor's licensed electrician and is not provided by SeptiTech. System Controller should be installed in a heated building where an ambient temperature range of 60 to 90 degrees F is maintained. If the control panel must be located outside, please notify SeptiTech, Inc. so a heater may be installed within the enclosure.

  SeptiTech processors can also be built to 3-phase power requirements. If 3-phase is required, please notify SeptiTech at the time of contract signing.
- Internet: Contractor is responsible for installing a internet line to the processor control panel for the Telemetry. Any work performed on the system without the installation of the internet line shall be at the expense of the owner.

SeptiTech a subsidiary of Bio-Microbics, Inc	DES.BY: JSC
	DR.BY: JSC
	CK.BY: DRR
	PROJECT NO.:
STAAR 9.0 PROCESSOR INSTALLATION PLAN	
DATE: 07/09/15	DWG. NO.:
SCALE: 3/16"=1'-0"	REV.: 1

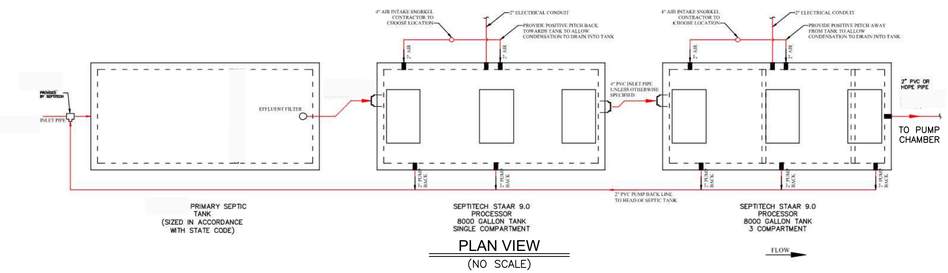


SEPTIC TANK #1 | STAAR 9.0 PROCESSOR | STAAR 9.0 PROCESSOR

STAAR 9.0 SERIES
ELEVATIONAL PLAN

FLOW

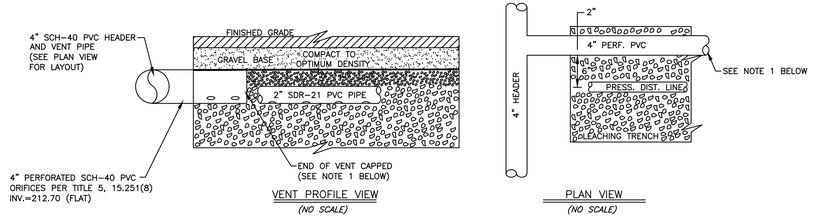
PROFILE VIEW
(NO SCALE)



PLAN VIEW
(NO SCALE)

BIO-MICROBICS, INC. – SEPTITECH STAAR 9.0

(SOURCE: SEPTICTECH A SUBSIDIARY OF BIOMICROBIC, INC EDITED BY DGT ASSOCIATES FOR USE)
(NO SCALE)



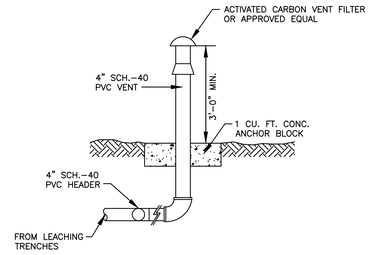
VENT PROFILE VIEW (NO SCALE) | PLAN VIEW (NO SCALE)

NOTES:

1. VENT TO EXTEND ALONG THE ENTIRE TRENCH LENGTH AND THROUGH TO THE OPPOSITE END OF THE FIELD.

SOIL ABSORPTION SYSTEM VENT INSTALLATION

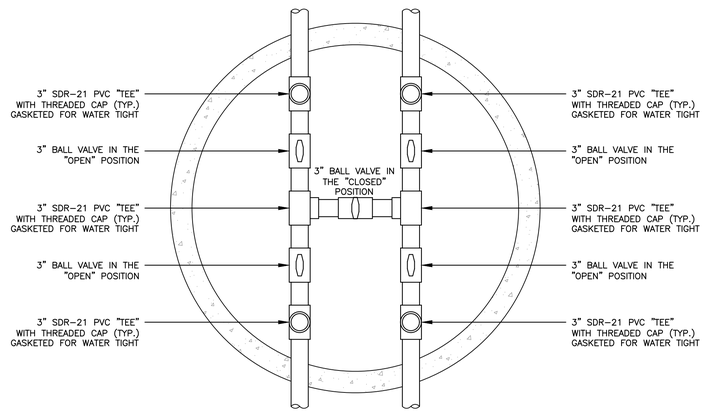
(NO SCALE)



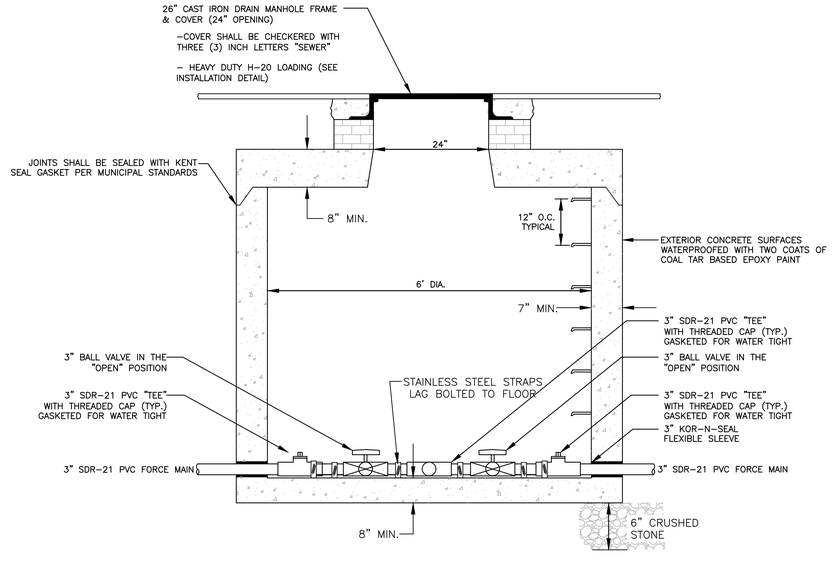
SOIL ABSORPTION SYSTEM (SAS) VENT

(NO SCALE)

PLAN VIEW
(NO SCALE)



PROFILE VIEW
(NO SCALE)



SWITCHING VALVE MANHOLE

(NO SCALE)

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0 WASHINGTON STREET
SHERBORN, MASSACHUSETTS 01770

SHEET TITLE:

DETAILS #3

SHEET: **5 OF 5**

PROJECT NO.: **F-25902**

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