



**PLAN NOTES:**

- EXISTING CONDITIONS WERE OBTAINED BY FIELD SURVEY BY LEVEL DESIGN GROUP, LLC, ON MARCH 18, 2022. SOIL TESTING COMPLETED BY SEAN M. BARRY ON APRIL 26, 2022.
- THE LOCATION OF EXISTING UTILITIES IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. NOTIFY "DIG-SAFE" AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO ANY SITE DEMOLITION OR EXCAVATION.
- CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES IN THE DESIGN PLANS PRIOR TO THE START OF CONSTRUCTION.
- ALL DISTURBED AREAS NOT RECEIVING IMPROVEMENTS SHALL BE LOAMED AND SEEDED.

**SYSTEM NOTES:**

- THIS DESIGN PLAN AND SPECIFICATIONS ARE INTENDED TO BE EXPLANATORY OF THE WORK TO BE DONE AND OF EACH OTHER, BUT SHOULD ANY OMISSIONS, ERRORS OR DISCREPANCIES APPEAR THEY SHALL BE SUBJECT TO CORRECTION AND INTERPRETATION BY THE DESIGN ENGINEER.
- ALL CONSTRUCTION AND CONSTRUCTION ACTIVITIES SHALL CONFORM TO STATE AND LOCAL REQUIREMENTS, INCLUDING BUT NOT LIMITED TO THE TOWN OF FRANKLIN BOARD OF HEALTH, THE COMMONWEALTH OF MASSACHUSETTS AND, OSHA.
- ALTERNATIVE MANUFACTURERS FOR MATERIALS SHOWN ON THESE PLANS MAY BE USED ONLY UPON WRITTEN APPROVAL BY THE DESIGN ENGINEER. ALTERNATE MANUFACTURERS WILL NOT BE APPROVED IF THE USE OF THEIR EQUIPMENT REQUIRES DESIGN CHANGES.
- IF ANY PART OF THIS DESIGN IS TO BE ALTERED IN ANY WAY, THE DESIGN ENGINEER AND THE APPROVING AGENCIES SHALL BE NOTIFIED IN WRITING AND THEIR APPROVAL OBTAINED PRIOR TO CONSTRUCTION.
- NO RAINWATER LEADER OR ANY DRAIN OTHER THAN SANITARY SEWAGE LINES SHALL DISCHARGE OR BE CONNECTED TO THE SANITARY SYSTEM. NO INDUSTRIAL WASTE SHALL BE DISCHARGED INTO THE SANITARY SYSTEM.
- THE INSTALLER SHALL CONTACT THE FRANKLIN BOARD OF HEALTH PRIOR TO THE START OF CONSTRUCTION AND CONFORM TO ALL INSPECTION REQUIREMENTS OF THE FRANKLIN BOARD OF HEALTH BEFORE, DURING AND AFTER CONSTRUCTION.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SEE THAT ALL PERMITS AND APPROVALS ARE OBTAINED. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL SAFETY CODES IN THE CONSTRUCTION OF THIS SUBSURFACE SEWAGE DISPOSAL SYSTEM.
- THE LOCATION OF EXISTING UTILITIES IS APPROXIMATE; THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. NOTIFY "DIG-SAFE" AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO ANY SITE DEMOLITION OR EXCAVATION.
- NO WATER SUPPLY LINES ARE TO BE CONSTRUCTED WITHIN 10 FEET OF THE LEACHING AREA OR SEPTIC TANK.
- GRAVITY SEWER PIPING BELOW GRADE SHALL BE PVC PIPE, SCH. 40 AT A MINIMUM. JOINTS SHALL BE PUSH-ON BELL & SPIGOT WITH A RUBBER GASKET AND CONFORMING TO ASTM STANDARDS FOR THIS PIPE.
- PIPE CONNECTIONS AT INLET AND OUTLET OF SEPTIC TANKS AND DISTRIBUTION BOX SHALL BE GROUDED WITH HYDRAULIC CEMENT GROUT FOR WATER TIGHTNESS.
- THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE DESIGN ENGINEER IMMEDIATELY IF CONDITIONS ENCOUNTERED DIFFER FROM THOSE SHOWN.
- DEEP OBSERVATION HOLES WERE PERFORMED ON APRIL 26, 2022 BY SEAN M. BARRY, EIT OF LEVEL DESIGN GROUP, LLC, AND WITNESSED BY MR. WADE SAUCIER, HEALTH AGENT FOR THE TOWN OF FRANKLIN BOARD OF HEALTH.
- THE SEPTIC TANK AND DISTRIBUTION BOX ARE TO BE CONSTRUCTED TO WITHSTAND A MINIMUM OF H-20 LOADING.
- IN ACCORDANCE WITH TOWN OF FRANKLIN BOARD OF HEALTH REGULATIONS THE SYSTEM HAS NOT BEEN DESIGNED FOR USE OF A GARBAGE GRINDER. THE DESIGN ENGINEER DOES NOT RECOMMEND THE USE OF A GARBAGE GRINDER IN CONJUNCTION WITH A SEPTIC SYSTEM DUE TO THE POSSIBILITY OF SOLIDS CLOGGING THE EFFLUENT DISTRIBUTION LINES.
- THE SEWER LINE SHALL BE CONSTRUCTED OF FOUR (4) INCH DIAMETER SCH 40 PVC. PIPING SHALL BE WATER TIGHT AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. A CLEANOUT SHALL BE REQUIRED AT CHANGES OF LINE AND/OR GRADE.
- DISTRIBUTION LINES SHALL BE CONSTRUCTED OF CONSTRUCTED OF FOUR (4) INCH DIAMETER SCH 40 PVC. DISTRIBUTION LINES OUTSIDE THE LEACHING AREA SHALL BE UNPERFORATED WITH WATER TIGHT CONNECTIONS AND JOINTS. DISTRIBUTION LINES INSIDE THE LEACHING AREA SHALL BE PERFORATED AND LAID AT A SLOPE OF 0.005 FT/FT. DISTRIBUTION LINE ENDS SHALL BE VENTED.
- THE BOTTOM OF THE SOIL ABSORPTION SYSTEM SHALL BE EXCAVATED TO A LEVEL GRADE AND SCARIFIED. IF THE REMOVAL OF STONES OR BOULDERS IS REQUIRED, CREATING LOCALIZED DEPRESSIONS, FILLING TO GRADE WITH EXCAVATED SOIL IS NOT ACCEPTABLE.
- LEACHING AGGREGATE SHALL BE DOUBLE-WASHED STONE, FREE OF IRON, FINES, AND DUST IN PLACE.
- ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE OR A COMPARABLE MEANS IN ORDER TO LOCATE THEM ONCE BURIED.
- THE SOIL PLACED AS BACKFILL OVER THE SYSTEM SHALL BE A MINIMUM OF NINE (9) INCHES, EXCLUDING TOPSOIL, PLACED IN LIFTS AND SUFFICIENTLY COMPACTED TO PREVENT DEPRESSIONS DUE TO SETTLING WHICH MAY INTERCEPT OR COLLECT SURFACE WATER RUNOFF ABOVE THE SYSTEM. BACKFILL MUST BE CLEAN AND FREE OF STONES AND BOULDERS GREATER THAN SIX (6) INCHES IN SIZE.
- AN INSPECTION PORT SHALL BE INSTALLED WITHIN THE LEACH BED AND SHALL CONSIST OF A PERFORATED 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 AT GRADE AND BE CONSTRUCTED OF MATERIALS TO WITHSTAND H-10 LOADING.



**USGS LOCUS MAP**  
SCALE: 1" = 1,000'

- NO PUBLIC WELLS WITHIN 400 FEET EXCEPT AS SHOWN.
- NO PRIVATE WELLS WITHIN 200 FEET EXCEPT AS SHOWN.
- WETLANDS, INLAND BANKS, OR SURFACE WATERS WITHIN 200 FEET OF THE PROJECT EXCEPT AS SHOWN.
- NO SURFACE WATER SUPPLIES WITHIN 400 FEET EXCEPT AS SHOWN.
- NO SURFACE DRAINS EXCEPT AS SHOWN.
- NO SURFACE OR SUBSURFACE DRAINS WHICH INTERCEPT GROUND WATER EXCEPT AS SHOWN.
- LOCATION OF FLOODWAY SHOWN IF ANY.
- NO 100 YEAR FLOOD LIMIT, EXCEPT IF SHOWN.
- SITE IS NOT WITHIN A NITROGEN SENSITIVE AREA.

**TO ENSURE THE PERFORMANCE OF THE SYSTEM, MAINTENANCE SHOULD BE PERFORMED ANNUALLY BY A LICENSED SEWAGE PUMPING CONTRACTOR.**

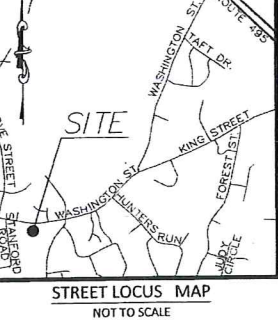
**LEVEL DESIGN GROUP, LLC WILL NOT BE RESPONSIBLE FOR THE PERFORMANCE OF THIS SYSTEM UNLESS CONSTRUCTED AND INSPECTED IN ACCORDANCE WITH THIS PLAN. INSPECTIONS TO BE DONE AFTER EXCAVATION FOR SYSTEM AND AFTER CONSTRUCTION, BUT PRIOR TO BACKFILLING. ANY ALTERATION MUST BE APPROVED IN WRITING BY LEVEL DESIGN GROUP, LLC.**

**TABLE OF INVERTS**

DESCRIPTION	PIPE SIZE	TOP	INVERT	BOTTOM	AS-BUILT
SEWER LINE CONNECTION (A)	4"	293.75			
SEWER LINE CONNECTION (B)	4"	293.75			
SEPTIC TANK (IN)	4"	292.65			
SEPTIC TANK (OUT)	4"	292.40			
DISTRIBUTION BOX (IN)	4"	292.32			
DISTRIBUTION BOX (OUT)	4"	292.15			
LATERALS (IN)	4"	292.14			
LATERALS (END)	4"	291.80			
TRENCHES		292.48		289.80	

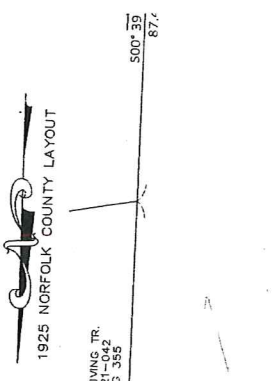
**DESIGN ANALYSIS:**  
**DESIGN FLOW:**  
 BOARDING SCHOOL  
 10 PEOPLE @ 65 GAL/PERSON = 650 GPD  
**SEPTIC TANK REQUIREMENTS:**  
 200X X 650 GPD = 1300 GAL  
 USE 1500 GALLON TANK  
**PRIMARY LEACHING FACILITY DESIGN:**  
 DESIGN PERCOLATION RATE: <2 MPH  
 SOIL TEXTURAL CLASS: CLASS 1  
 EFFLUENT LOADING RATE: 0.74 GPD/SF  
 EFFECTIVE LEACHING AREA REQUIRED:  
 650 GPD / 0.74 GPD/SF = 878.4 SF  
 EFFECTIVE LEACHING AREA PROVIDED:  
 USE 2 LEACHING TRENCHES  
 3' WIDE, 2' DEEP  
 945.95/7 S.F./F' = 135.14 LF REQUIRED  
 135.14/2 = 68 LF /TRENCH  
 68\*7/2 = 952 S.F. PROVIDED  
 952 SF LEACHING AREA PROVIDED

ZONING REQUIREMENTS		
ZONING DISTRICT: RURAL RESIDENTIAL 1		
	REQUIRED	PROVIDED
MIN. LOT AREA	40,000 S.F.	102,856 S.F.
FRONTAGE	200'	338.34'
FRONT YARD SETBACK	40'	40.66'
SIDE YARD SETBACK	40'	41.09'
REAR YARD SETBACK	40'	208.68'
MAX. BUILDING HEIGHT	3 STORY/35'	1 STORY/18'
PARKING REQUIREMENTS		
USE: GROUP HOME - GUEST HOUSES, LODGING HOUSES AND OTHER GROUP ACCOMMODATIONS: ONE SPACE PER GUEST UNIT.	20 GUESTS X (1 SPACE/ GUEST)	20 SPACES



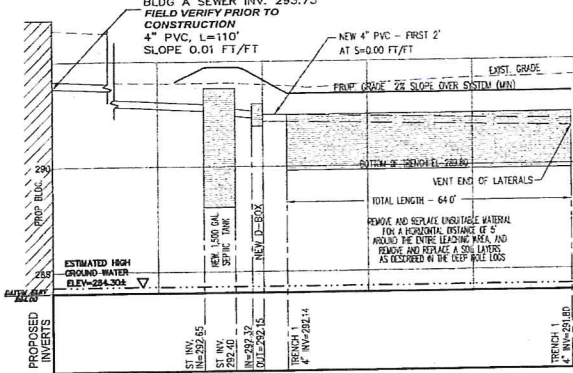
**STREET LOCUS MAP**  
NOT TO SCALE

**NOTE:**  
THERE ARE NO CLASSROOMS OR VOCATIONAL SCHOL ACTIVITIES IN THE PROPOSED BUILDINGS. NO USES ARE PROPOSED THAT WOULD REQUIRE AN INDUSTRIAL HOLDING TANK.

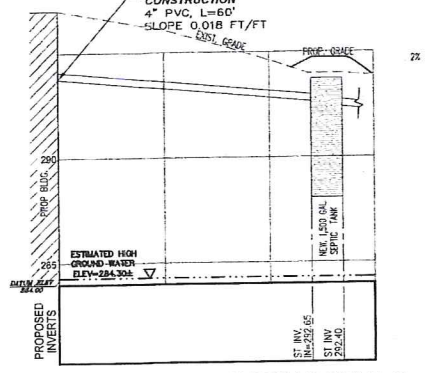


**1925 NORFOLK COUNTY LAYOUT**  
LEWIS FARM, N.F. MAP NO. 17, PARCEL ID 321-04-2, DB 36001 PG 365

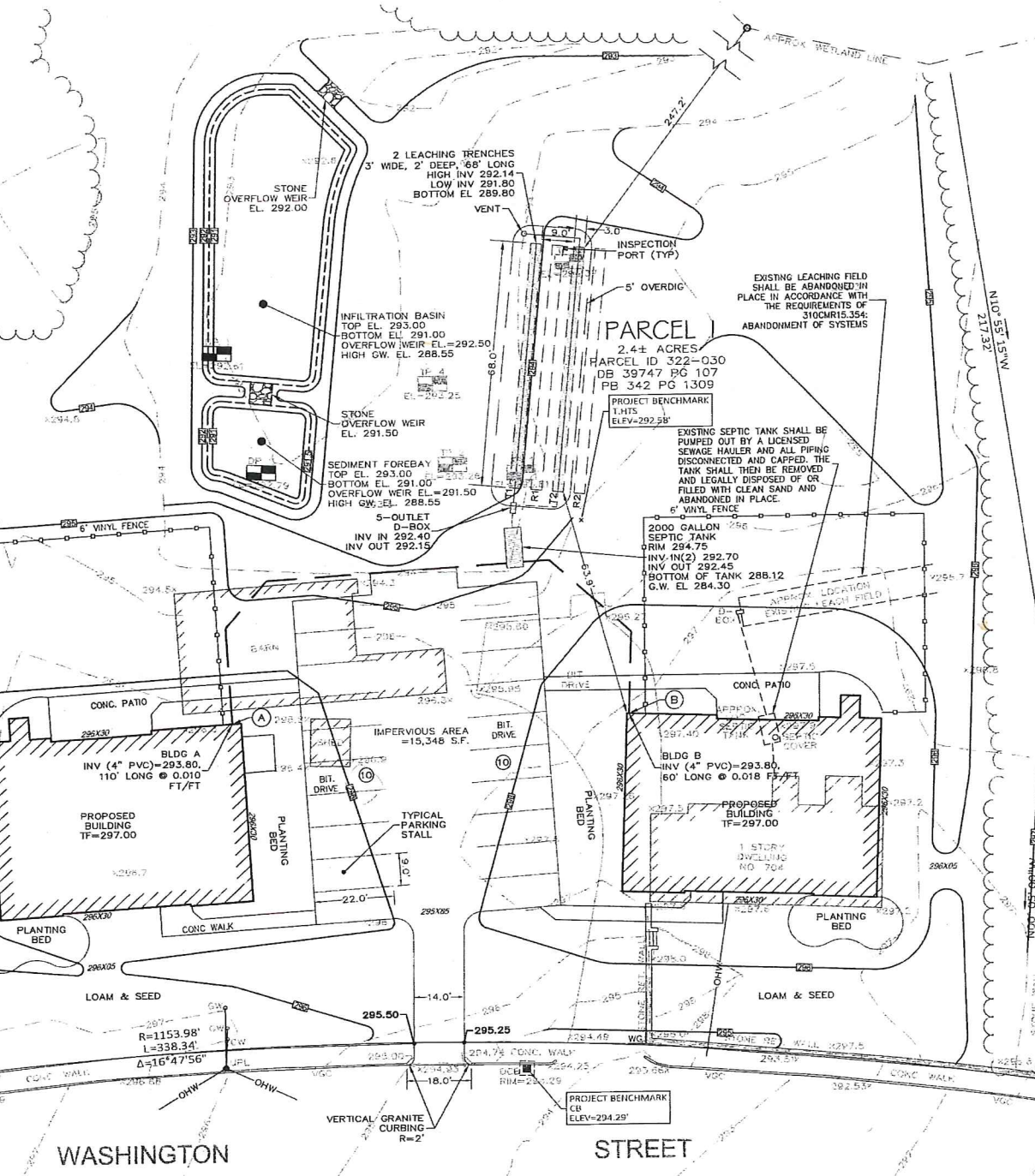
**ZONING DISTRICT**  
ZONED: RURAL RESIDENTIAL  
**MINIMUM BUILDING SETBACKS**  
 FRONT=40 FEET  
 SIDE=40 FEET  
 REAR=40 FEET  
**DEED REFERENCES**  
 LAWRENCE P. BENEDETTO  
 DEED BOOK 39747 PAGE 107  
**PLAN REFERENCES**  
 PLAN BOOK 105 PAGE 679  
 PLAN BOOK 342 PAGE 1309



**SEWAGE DISPOSAL SYSTEM PROFILE - A**  
TRENCH 1  
1" = 20' H, 1" = 4' V



**SEWAGE DISPOSAL SYSTEM PROFILE - B**  
TRENCH 1  
1" = 20' H, 1" = 4' V



NO	DATE	REVISIONS
1	7.11.22	COMMENT RESPONSE
2		

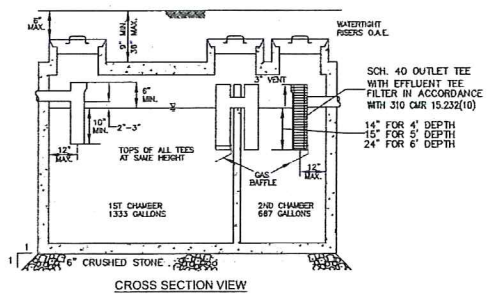
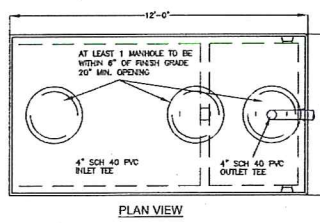
DATE: JUNE 21, 2022  
 DRAWN: APH/DRG  
 SCALE: H-1"=20', V-1"=4'

**AMEGO**  
 SITE PLAN  
 MAP SHEET 322, PARCEL 030  
 704 WASHINGTON STREET  
 FRANKLIN, MASSACHUSETTS

**LEVEL**  
 DESIGN GROUP  
 CIVIL ENGINEERING / LAND SURVEYING  
 249 SOUTH STREET  
 UNIT 1  
 PLAINVILLE, MA 02762  
 TEL (508) 695-2221 FAX (508) 695-2219

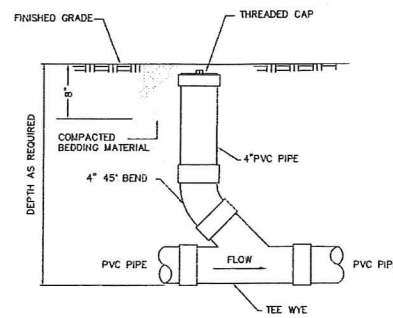
**SITE PLAN**  
**C-1.0**  
 SHEET 1 OF 2  
 0' 5' 10' 20'  
**2013.00**

RISER/COVER NOTES:  
 1. MIN 1 RISER SHALL BE BROUGHT WITHIN 6" OF FINISH GRADE  
 2. RISERS SHALL BE ORDENCO RR24(HEIGHT) WITH FL24 LID, PRTA24 AND RA24 FOR CONNECTIONS

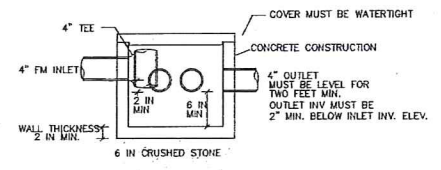


- NOTES:  
 1. SEPTIC TANK TO WITHSTAND H-20 LOADING.  
 2. ALL PIPE CONNECTIONS AND CONCRETE CONSTRUCTION TO BE WATERTIGHT.  
 3. INLET AND OUTLET TEES SHALL HAVE A MIN. 6" SEPARATION, AND TANK SHALL HAVE A MIN 3" WIDTH. INSIDE LENGTH TO WIDTH RATION SHALL BE NO LESS THAN 1.5 TO 1.  
 4. IF TOP OF TANK DEEPER THAN 9", TWO MANHOLES SHALL BE BROUGHT TO WITHIN 6" OF GRADE.

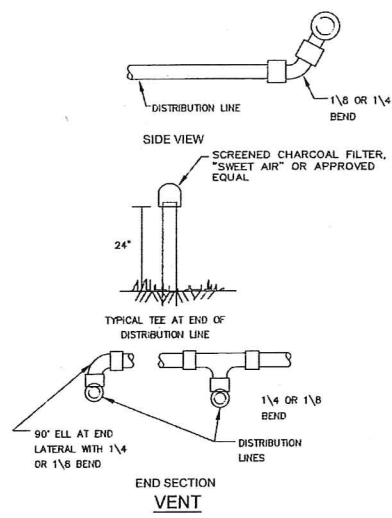
**2,000 GALLON PRECAST CONCRETE SEPTIC TANK**  
 NOT TO SCALE  
 MUST CONFORM TO 310 CMR 15.223 & 15.226



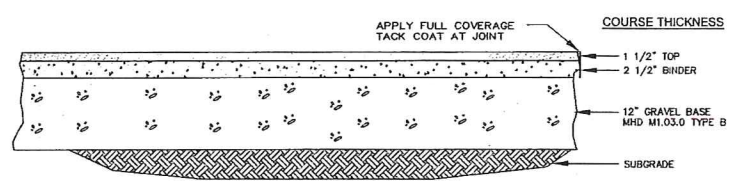
**CLEANOUT AT GRADE**  
 NOT TO SCALE



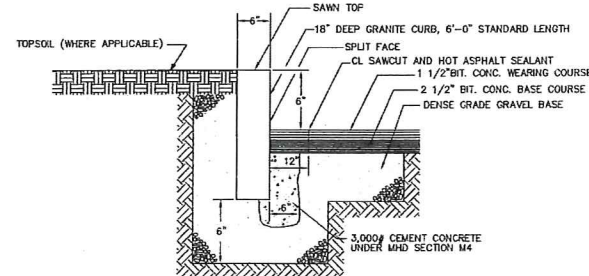
**5 OUTLET DISTRIBUTION BOX**  
 MUST CONFORM TO 310 CMR 15.232  
 NOT TO SCALE



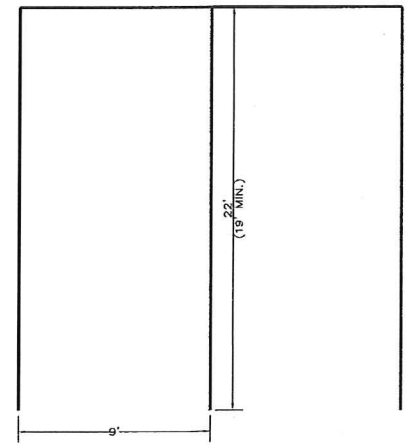
**VENT**



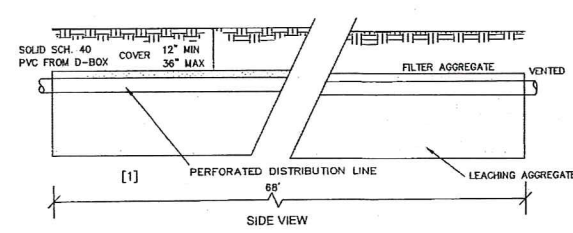
**AUTOMOTIVE AREAS - BITUMINOUS CONCRETE PAVEMENT**  
 NOT TO SCALE



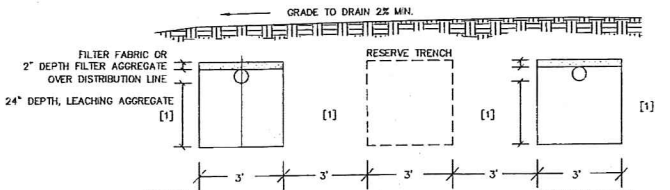
**VERTICAL GRANITE CURB**  
 NOT TO SCALE



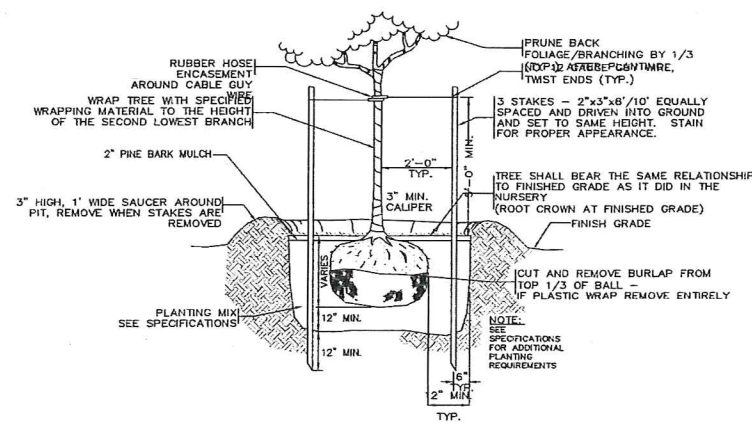
**PARKING STALL**  
 NOT TO SCALE



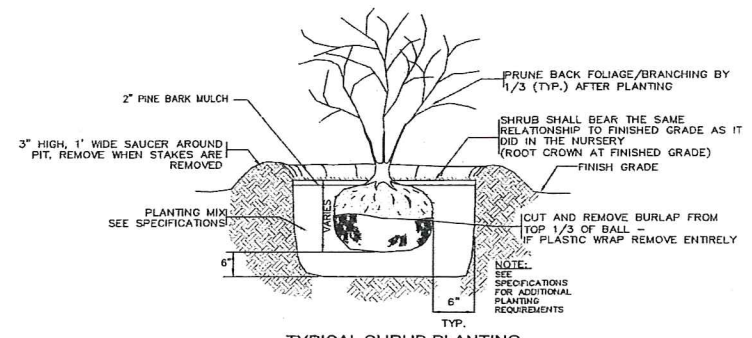
**SIDE VIEW**



- NOTES:  
 [1] COMPACTED SELECT SOIL FILL  
 TYPICAL CROSS SECTION  
**SOIL ABSORPTION AREA**  
 NOT TO SCALE  
 \* MINIMUM TRENCH SEPARATION PER 310CMR15.251.1D, MINIMUM TRENCH WIDTH PER 310CMR15.251.1A&B.

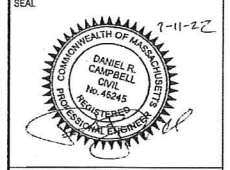


**TYPICAL TREE PLANTING**  
 NOT TO SCALE



**TYPICAL SHRUB PLANTING**  
 NOT TO SCALE

NO	DATE	REVISIONS
1	7-11-22	COMMENT RESPONSE
2		



DATE: JUNE 21, 2022  
 DRAWN: APH / DRC  
 SCALE: N.T.S.

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**TYPICAL DETAILS**  
**C-2.0**  
 SHEET 2 OF 2  
 0 5' 10' 20'  
**2013.00**