General Notes

- 1. THE GENERAL CONTRACTOR IS TO BE RESPONSIBLE FOR THE HORIZONTAL AND VERTICAL CONTROL OF ALL SYSTEM COMPONENTS.
- 2. THIS PLAN IS TO SHOW THE DESIGN OF THE SUBSURFACE DISPOSAL THIS PLAN IS TO SHOW THE DESIGN OF THE SUBSURFACE DISPOSAL SYSTEM ONLY. THE SYSTEM IS DESIGNED FOR FLOWS ESTIMATED UNDER DESIGN CONDITIONS.
- 3. THE SYSTEM IS DESIGNED ONLY TO ACCOMMODATE SANITARY SEWAGE ASSOCIATED WITH NORMAL DOMESTIC USAGE AND CONSISTING OF WATER-CARRIED PUTRESCIBLE WASTE.
- 4. THIS SYSTEM IS NOT DESIGNED FOR GARBAGE GRINDERS.
- 5. THE SYSTEM SHALL BE VENTED THROUGH THE BUILDING PLUMBING AS REQUIRED BY BUILDING
- 6. PROPERTY LINES AND BUILDING LOCATIONS ARE GRAPHIC ONLY. PROPERTY LINES NOT HAVING BEEN VERIFIED, NO REPRESENTATION OR CERTIFICATION AS TO THE ACCURACY OF THOSE SHOWN IS IMPLIED OR INTENDED.
- 7. APPLICABLE ZONING REGULATIONS SHALL BE CONFIRMED BY THE OWNER PRIOR TO CONSTRUCTION.
- 8. THE PLAN SHOWS ONLY THOSE FEATURES THAT WERE VISUALLY APPARENT ON THE DATE OF SURVEY AND THE ABSENCE OF SUBSURFACE STRUCTURES, UTILITIES, ETC., IS NOT INTENDED OR IMPLIED.
- 9. THE INSTALLER OF THE SYSTEM MUST BE LICENSED BY THE LOCAL BOARD OF HEALTH.
- 10. THERE ARE NO EXISTING WELLS WITHIN 150' FEET OF THE PROPOSED SEWAGE DISPOSAL SYSTEM OR WITHIN 50' OF THE SEPTIC TANK.
- 11. DISPOSAL SYSTEM AREA IS TO BE RAKED (SCARIFIED) BEFORE DISPOSAL SYSTEM AREA IS TO BE RAKED (SCARIFIED) BEFORE INSTALLATION OF STONE. ALL STONES EXCEEDING 2-INCHES IN DIAMETER, ALL LOAM OR FOREIGN MATERIAL ENCOUNTERED DURING EXCAVATION SHALL BE REMOVED FROM THE LEACHING AREA BED SURFACE.
- 12. FINISHED SURFACE OF THE LEACHING AREA SHALL BE GRADED TO ASSURE WATER RUN-OFF.
- 13. ALL DISTURBED AREAS SHALL BE LOOMED, SEEDED, AND MAINTAINED TO PREVENT EROSION.
- 14. THE SEPTIC TANK SHOULD BE PERIODICALLY INSPECTED AND MAINTAINED AND SHOULD BE PUMPED WHEN SLUDGE IN THE BOTTOM EXCEEDS 1/4 OF DEPTH.
- 15. ALTERNATE MANUFACTURERS FOR CONCRETE STRUCTURES AND EQUIPMENT SHOWN ON THESE PLANS MAY BE USED UPON THE WRITTEN APPROVAL OF THE DESIGN ENGINEER. ALTERNATE MANUFACTURERS SHALL NOT BE USED IF THE USE OF THE EQUIPMENT REQUIRES DESIGN CHANGES.
- 16. IF ANY PART OF THE DESIGN IS TO BE ALTERED IN ANY WAY, THE DESIGN ENGINEER, AS WELL AS THE APPROVING AUTHORITIES SHALL BE NOTIFIED IN WRITING PRIOR TO CONSTRUCTION.
- 17. ALL WORK SHALL COMPLY WITH THE COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION STATE SANITARY CODE TITLE 5 AND ANY BOARD OF HEALTH SUPPLEMENTAL REGULATIONS.
- 18. THE LOCAL BOARD OF HEALTH WILL CONDUCT PERIODIC INSPECTIONS AS NEEDED.
- 19. A RESIDENT INSPECTOR FROM MF ENGINEERING SHALL BE ON SITE TO: (a) INSPECT THE INSTALLATION OF ALL CONCRETE STRUCTURES PRIOR TO BEING BACKFILLED, (b) INSPECT THE BOTTOM OF THE LEACH BED AT THE TIME IT IS SCARIFIED, AND (c) INSPECT THE LEACH BED AREA PRIOR TO BEING BACKFILLED. THE DESIGN ENGINEER AND THE LOCAL BOARD OF HEALTH SHALL BE GIVEN AT LEAST 48 HOURS NOTICE BY THE GENERAL CONTRACTOR PRIOR TO COMMENCEMENT OF THE ABOVE CONSTRUCTION OPERATIONS. THE DESIGN ENGINEER SHALL SUBMIT AN AS-BUILT SKETCH OF THE SYSTEM TO THE BOARD OF HEALTH WITHIN 2 WEEKS OF COMPLETION.
- 20. THESE PLANS AND SPECIFICATIONS ARE INTENDED TO ENCOMPASS THE PROPOSED WORK. SHOULD ANY OMISSIONS, ERRORS, OR DISCREPANCIES OCCUR, THE ENGINEER MUST BE NOTIFIED IMMEDIATELY AND THESE PLANS AND SPECIFICATIONS SHALL BE SUBJECT TO CORRECTION AND INTERPRETATION BY THE DESIGN ENGINEER. THEREBY DEFINING AND FULFILLING THE INTENT OF THE DESIGN.
- 21. THERE ARE NO SURFACE WATER SUPPLIES OR TRIBUTARIES TO RESERVOIRS WITHIN 100' OF THE PROPOSED LEACHING AREA AND OF THE PROPOSED SEPTIC TANK.
- 22. THERE ARE NO EXISTING OR PROPOSED CATCH BASINS, SUBSURFACE DRAINS, INCLUDING FOUNDATION DRAINS OR DRYWALLS WITHIN 25' OF THE 25' OF THE OF THE PROPOSED LEACHING AREA AND SEPTIC TANK.
- 23. ALL CONNECTIONS AND JOINTS SHALL BE MECHANICALLY SOUND AND TIGHT.
- 24. EFFLUENT DISTRIBUTION LINE OUTLET ORIFICES SHALL BE EVENLY SPACED ALONG TWO ROWS RUNNING THE LENGTH OF THE LINE, ON EACH SIDE, MIDWAY BETWEEN THE INVERT AND CENTERLINE WHICH SEPARATES THE UPPER AND LOWER HALVES OF THE PIPE. FOR GRAVITY DISTRIBUTION, ORIFICES SHALL BE NO SMALLER THAN 3/8-INCH AND NO LARGER THAN 5/8-INCH DIAMETER.
- 25. EFFLUENT DISTRIBUTION LINES SHALL HAVE A SLOPE OF 0.005 FEET PER FOOT AND SHALL HAVE ENDS CAPPED OR CONNECTED TOGETHER BY UNPERFORATED PIPE OF THE SAME MATERIAL SPECIFICATIONS.
- 26. DISTRIBUTION LINES CONNECTING THE DISTRIBUTION BOX OR PUMP CHAMBER TO THE SOIL ABSORPTION SYSTEM SHALL BE UNPERFORATED WITH WATER TIGHT CONNECTIONS AND JOINTS.
- 27. DISTRIBUTION LINES EXCEEDING 50-FEET IN LENGTH SHALL BE CONNECTED AND VENTING PROVIDED IN ACCORDANCE WITH 310 CMR 15.241.
- 28. THE 15' DISTANCE FOR BREAKOUT IS MEASURED HORIZONTALLY FROM THE TOP OF STONE. *SEE PLAN & PROFILE.
- 29. BOTTOM AND SIDEWALL AREA TO BE SCARIFIED TO A DEPTH OF 1-INCH PRIOR TO PLACEMENT OF STONE.
- 30. THE CONTRACTOR IS RESPONSIBLE FOR ALL PLUMBING FOR THE PROPOSED DWELLING AND IS TO ASSURE THAT ALL INTERIOR PLUMBING IS PROPERLY CONNECTED TO THE PROPOSED SEPTIC TANK. IN CASES OF REPAIRS, CONTRACTOR SHALL CONFIRM THAT ALL INTERIOR PLUMBING WILL BE ABLE TO FLOW TO THE PROPOSED SEPTIC TANK PRIOR TO CONSTRUCTION. AT A MINIMUM, THE CONTRACTOR SHALL USE A DYE TEST OR CAMERA TO CONFIRM EXISTING PLUMBING. CONTRACTOR SHALL REPORT ANY DISCREPANCY TO THE LOCAL BOARD OF HEALTH AND DESIGN ENGINEER PRIOR TO CONSTRUCTION.
- 31. WETLANDS: FLAGGED BY RIMMER ENVIRONMENTAL CONSULTING INC. AND APPROVED BY THE BOXFORD CONSERVATION COMMISSION.

NOTICE OF INTENT (NOI) SENA RESIDENCE 146 GEORGETOWN ROAD BOXFORD, MA



SHEET NO.	SHEET TITLE
	COVER SHEET
C-101	EXISTING CONDITIONS AND EROSION CONTROL PLAN
C-102	GRADING AND DRAINAGE PLAN
C-103	SEPTIC SYSTEM DESIGN AND CALCULATIONS
C-104	SEPTIC SYSTEM PROFILES AND DETAILS
C-105	EXISTING LANDSCAPE PLAN

PROPOSED LANDSCAPE PLAN

CONSTRUCTION DETAILS

C-106

C-501-502

SYSTEM AS-BUILT REQUIREMENTS

CONTRACTOR SHALL COORDINATE WITH THE DESIGN ENGINEER AND AT A MINIMUM MAKE THE FOLLOWING SYSTEM COMPONENTS OPEN & ACCESSIBLE FOR HORIZONTAL AND VERTICAL LOCATION FOR AS-BUILT PLANS:

ALL PIPES LEACHING FIELD, TRENCHES AND OR GALLERIES D-BOX SEPTIC TANK VENTS PUMP CHAMBER, ELECTRICAL HAND-HOLE IMPERVIOUS BARRIER (40 MIL HDPE POLYVINYL CHLORIDE FLEXIBLE MEMBRANE) - IF APPLICABLE. INVERT AT BUILDING ANY OTHER APPLICABLE SYSTEM COMPONENTS

AS-BUILT NOTES: WHEN AN IMPERVIOUS BARRIER (40 MIL HDPE POLYVINYL CHLORIDE FLEXIBLE MEMBRANE) IS INSTALLED CONTRACTOR SHALL LEAVE TOP EXPOSED FOR HORIZONTAL AND VERTICAL LOCATION. WHEN PRESSURE DOSING, CONTRACTOR SHALL HAVE ALL ELECTRICAL CONNECTIONS INCLUDING ALARM COMPLETED PRIOR TO AS-BUILT. PUMPS SHALL BE TESTED AND PUMP DRAW DOWN CONFIRMED. WHERE APPLICABLE, THE SQUIRT HEIGHT SHALL BE MEASURED AND RECORDED.

Material Notes

1. LEACH BEDDING A. CLEAN DOUBLE WASHED STONE SHALL BE FREE OF IRONS, FINES, DUST AND ORGANIC MATTER AS LAID. DOUBLE WASHED STONE SHALL CONFORM TO AASHO T-11-70. B. BOTTOM STONE IN LEACH SYSTEM SHALL BE 3/4" TO 1 1/2" DOUBLE WASHED STONE AS INDICATED IN NOTE 'A' ABOVE. C. TOP STONE IN LEACH SYSTEM SHALL BE 1/8" TO 3/8" DOUBLE WASHED STONE AS INDICATED IN NOTE 'A' ABOVE.

- 2. CONCRETE STRUCTURES: CONCRETE STRUCTURES SHALL BE 4000 PSI AT 28 DAYS WITH A 6" x 6" x 10" GAUGE STEEL WIRE MESH. USE HYDRAULIC COMPOUND CONNECTIONS TO PROVIDE WATER TIGHTNESS AT SEPTIC TANK AND DISTRIBUTION BOX INLET & OUTLETS. SEPTIC TANK CONSTRUCTION JOINTS SHALL BE SEALED WITH ASPHALT CEMENTS.
- 3. PIPE MATERIALS: PIPE MATERIALS: DISTRIBUTION LINES FOR LEACHING TRENCHES SHALL BE CONSTRUCTED OF POLYVINYL CHLORIDE (PVC) PLASTIC (ASTM 26655), SCHEDULE 40 NSF. FORCEMAIN LINES SHALL BE INSTALLED TO GUARD AGAINST FREEZING.
- 4. SYSTEM FILL: SYSTEM FILL: FILL MATERIAL FOR SYSTEMS CONSTRUCTED IN FILL SHALL CONSIST OF ON-SITE OR IMPORTED SOIL MATERIAL. THE FILL SHALL BE COMPRISED OF CLEAN GRANULAR SAND, FREE FROM ORGANIC MATTER AND DELETERIOUS SUBSTANCES. MIXTURES AND DIFFERENT CLASSES OF SOIL SHALL NOT BE USED. THE FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN 2 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 ANALYSIS 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.

<u>IE√E SIZE</u>	<u>PASS SIEVE</u>	
RTICLE SIZE	EFFECTIVE	
#4	4.75 MM	100%
#5 <i>0</i>	0.30 MM	10%-100
#100	0.15 MM	0%-20
#200	0.075 MM	0%-5%

PRIOR TO PLACEMENT OF THE FILL, WHICH SHALL BE STOCKPILED AT THE EDGE OF THE EXCAVATION AND FILLED IN GRADUALLY, THE BOTTOM SURFACE OF THE EXCAVATION SHALL BE SCARIFIED AND RELATIVELY DRY. FILL SHALL NOT BE PLACED DURING RAIN OR SHOW STORMS. IF THE WATER TABLE ELEVATION IS ABOVE THE ELEVATION OF THE BOTTOM OF THE EXCAVATION, THE EXCAVATION SHALL BE DEWATERED AS NECESSARY.

SUBSURFACE DISPOSAL SYSTEM & MAINTENANCE

A SEPTIC SYSTEM IS USED TO DISPOSE AND TREAT HOUSEHOLD SEWAGE. IT CONSISTS OF A RECTANGULAR WATER TIGHT BOX (THE SEPTIC TANK) AND A LEACHING AREA. WASTE WATER FROM THE HOUSE FLOWS DIRECTLY INTO THE SEPTIC TANK. THERE THE LARGER SOLIDS SETTLE TO THE BOTTOM, FORMING A LAYER OF SLUDGE. THE LIGHTER PARTICLES RISE TO THE SURFACE, FORMING A LAYER OF SCUM. BACTERIA IN THE TANK WORK TO DECOMPOSE THE SOLIDS IN THESE LAYERS. IN SPITE OF THIS DECOMPOSITION, REGULAR REMOVAL OF THE SLUDGE LAYER IS NECESSARY, EVEN UNDER NORMAL CONDITIONS, AS IT WILL EVENTUALLY BUILD UP TO THE POINT WHERE SLUDGE OVERFLOWS THROUGH THE OUTLET PIPE AND INTO THE LEACHING AREA. THIS MAY BLOCK THE ENTIRE LEACHING AREA, THUS CAUSING SYSTEM FAILURE. THEREFORE, A REGULAR SEPTIC TANK PUMPING SCHEDULE IS RECOMMENDED TO AVOID LEACHING AREA PROBLEMS. CONTACT THE LOCAL BOARD OF HEALTH FOR RECOMMENDED PUMPING SCHEDULE. THE LIQUID PORTION OF THE SEWAGE FLOWS FROM THE SEPTIC TANK TO THE LEACHING SYSTEM, WHICH CONSISTS OF A SERIES OF PERFORATED PIPES OR A PRECAST PIT PLACED IN TRENCHES OR BEDS OF WASHED STONE. THIS SYSTEM DISTRIBUTES THE LIQUID SEWAGE INTO THE SURROUNDING SOIL, WHERE IT IS FILTERED AND TREATED.

1. IN ACCORDANCE WITH CHAPTER 82 SECTION 40 IN ACCORDANCE WITH CHAPTER 82 SECTION 40 INCLUDING AMENDMENTS, THE CONTRACTOR SHALL NOTIFY IN WRITING ALL UTILITY COMPANIES AND GOVERNMENT AGENCIES PRIOR TO EXCAVATION WORK AND CALL DIG-SAFE AT 1-800-DIG-SAFE PRIOR TO COMMENCING WORK.

2. THE LOCATION OF EXISTING UNDERGROUND UTILITIES THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVES. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

3. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATIONS, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.

4. CONTRACTOR SHALL FIELD VERIFY AND LOCATE ALL CONTRACTOR SHALL FIELD VERIFY AND LOCATE ALL EXISTING UTILITIES AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO COMMENCING WORK.



7 03/27/23 STORMWATER MANAGEMENT
6 10/13/21 OL/WATER SEPARATOR & POOL FILTER
5 10/06/21 COMMISSION COMMENTS

4 09/27/21 COMMISSION COMMENTS
3 08/17/21 STORMWATER MANAGEMENT
2 07/15/21 EXISTING TREES AND VEHAND LINE
1 08/11/21 NOI SUBMITTAL
No. Date Description

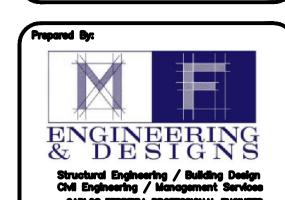
Prepared for:
CLAUDIO SENA
146 GEORGETOWN ROAD
BOXFORD, MA, 01921

Property of:

MF ENGINEERING

142 FISHER STREET

WESTBOROUGH, MA 01581



PHONE: 508–331–7261 SITE: WWW.MF-ENG.CO

Carlos E. Ferreira P.E. #41.423

Project Title

NOTICE OF INTENT SENA RESIDENCE

COVER SHEET

SCALE 1"=20'

DRAWN CMS

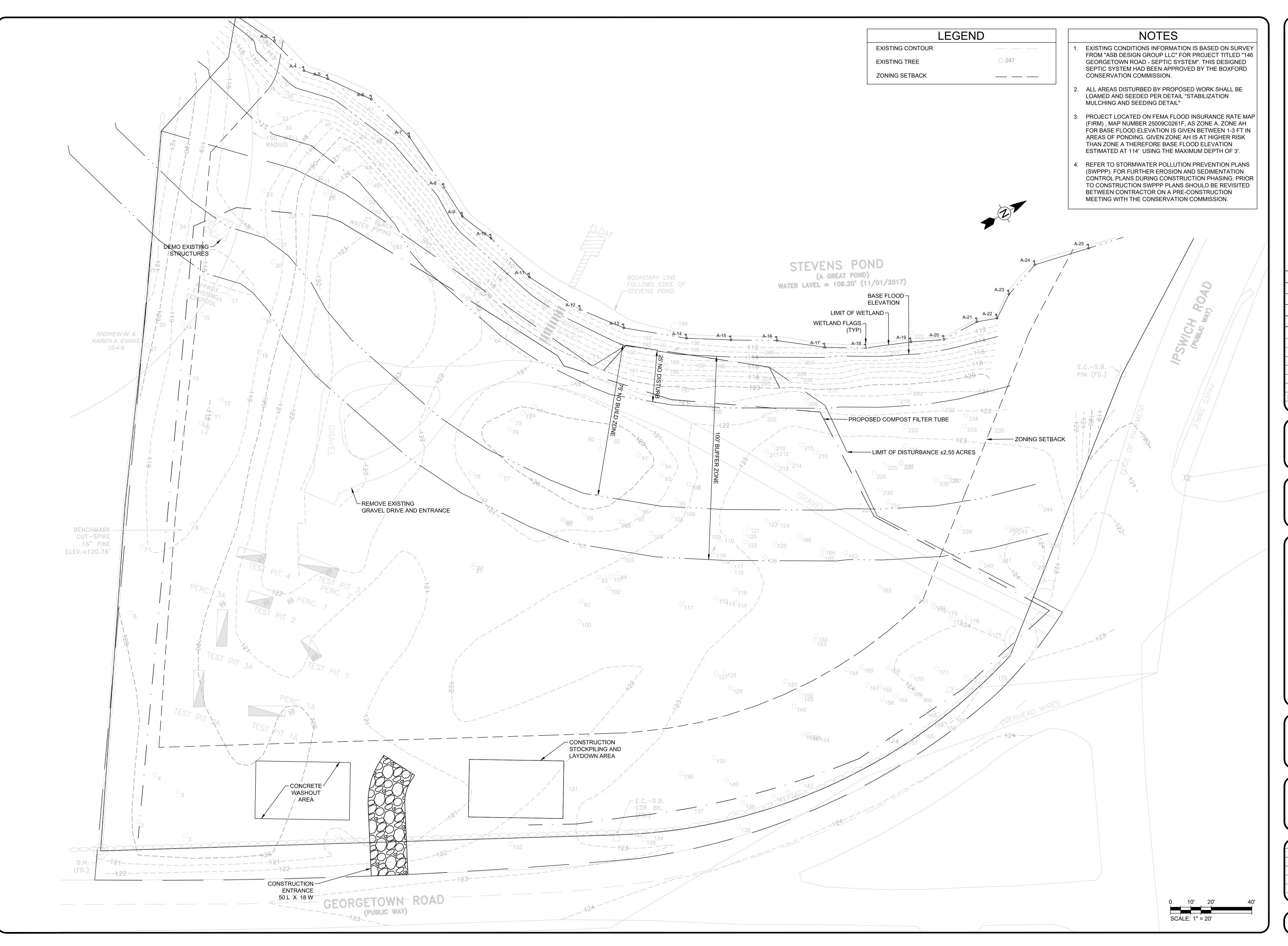
CHECKED CEF

FILE NAME 146 GEORGETOWN

PROJECT 146 GEORGETOWN ROAD

BSUE DATE 05/21/21

JOB NO. 146-0521





6 03/27/23 STORMWATER MANAGEMENT
5 10/06/21 COMMISSION COMMENTS

5 10/06/21 COMMISSION COMMENTS
4 09/27/21 COMMISSION COMMENTS
3 08/17/21 STORMWATER MANAGEMENT
2 07/15/21 EXISTING TREES AND WETLAND LINE
1 06/11/21 NOI SUBMITTAL

o. Date Description
Revisions

CLAUDIO SENA
146 GEORGETOWN ROAD
BOXFORD, MA, 01921

Property of:

142 FISHER STREET LLC

142 FISHER STREET

WESTBOROUGH, MA 01581

Prepared By:

ENGINEERING
BESIGNS

Structural Engineering / Building Design
Civil Engineering / Management Services
CARLOS FERREIRA PROFESSIONAL ENGINEER

PHONE: 508-331-7261 SITE: WWW.MF-ENG.COM EMAIL: CARLOS.FERREIRA@MF-ENG.COM

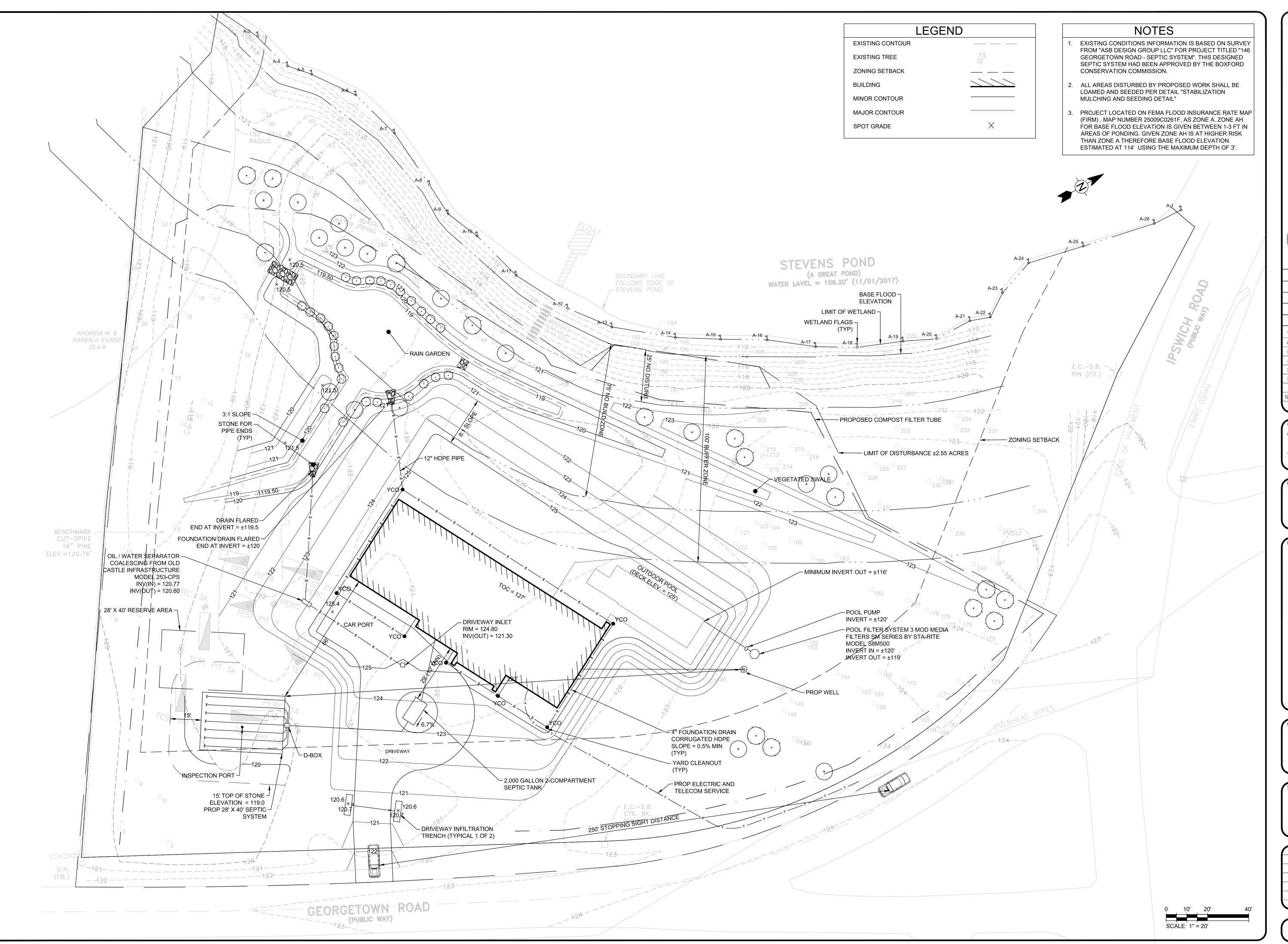
Carlos E. Ferreira P.E. #41.423

Project Title

NOTICE OF INTENT sena residence

EXISTING CONDITIONS
AND EROSION CONTROL

1	SCALE	1"=20'
	DRAWN	CMS
	CHECKED	CEF
	FILE NAME	146 GEORGETOWN
	PROJECT	146 GEORGETOWN RD
	ISSUE DATE	05/21/2021
	JOB NO.	146-0521





03/27/23 STORMWATER MANAGEMENT
10/13/21 OIL/WATER SEPARATOR & POOL FILTER

5 10/06/21 COMMISSION COMMENTS
4 09/27/21 COMMISSION COMMENTS
3 08/17/21 STORMWATER MANAGEMENT

3 08/17/21 STORMWATER MANAGEMENT
2 07/15/21 EXISTING TREES AND WETLAND LINI
1 06/11/21 NOI SUBMITTAL
No. Date Description

Revisions

CLAUDIO SENA 146 GEORGETOWN ROAD BOXFORD, MA, 01921

Property of: 142 FISHER STREET LLC 142 FISHER STREET WESTBOROUGH, MA 01581

Prepared By:

ENGINEERING

BUILDING

Structural Engineering / Building Design
Civil Engineering / Management Services

PHONE: 508–331–7261 SITE: WWW.MF-ENG.COM EMAIL: CARLOS.FERREIRA@MF-ENG.COM

CARLOS FERREIRA PROFESSIONAL ENGINEER

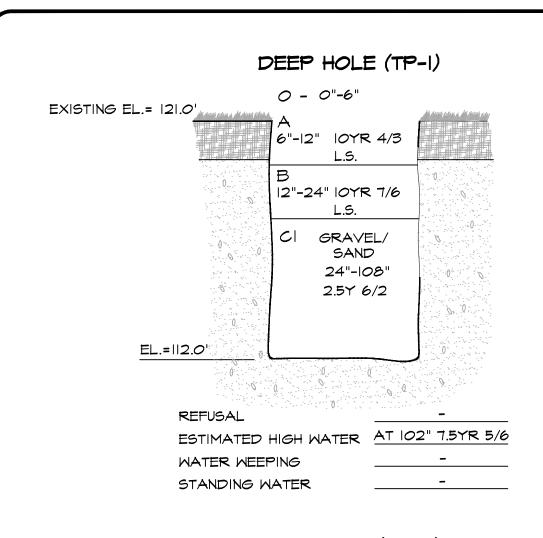
Carlos E. Ferreira P.E. #41.423

Project Title

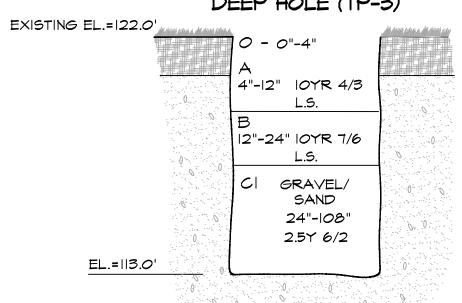
NOTICE OF INTENT sena residence

SITE PLAN

S	CALE	1"=20'
DI	RAWN	CEF
CHE	CKED	CEF
FILE 1	NAME	146 GEORGETOWN
PRO	JECT	146 GEORGETOWN RD
ISSUE	DATE	05/21/2021
JOE	NO.	146-0521

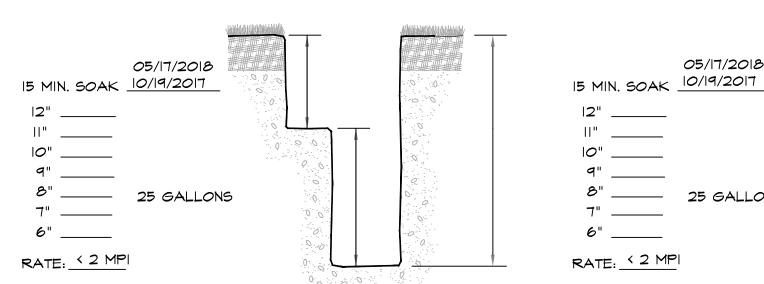


DEEP HOLE (TP-3)



ESTIMATED HIGH WATER WATER WEEPING STANDING WATER

PERC TEST I AND IA



CALCULATIONS

SOIL CLASS:

SOIL DATA

X CLASS I: SANDS, LOAMY SANDS ___ CLASS II: SANDY LOAMS, LOAM ___ CLASS III: SILTY LOAMS

* CLASS IV: CLAYS, SILTY CLAY, LOAM

* SOIL UNSUITABLE FOR SUBSURFACE DISPOSAL SYSTEM.

PERC. RATE: < 2 MIN/IN DESIGN RATE: USE IO MIN/IN

•				
PERC. RATE (MIN./INCH)	CLASS I	CLASS II	CLASS III	CLASS IV
< 5	0.74(3.0)	0.60(2.5)	_	_
6	0.70(2.9)	0.60(2.5)	-	-
7	0.68(2.8)	0.60(2.5)	-	-
8	0.66(2.7)	0.60(2.5)	-	-
10	-	0.60(2.5)	-	-
15	_	0.56(2.3)	0.37(1.5)	-
20	-	0.53(2.2)	0.34(1.4)	-
25	_	0.40(1.6)	0.33(1.3)	-
<i>30</i>	_	0.33(1.3)	0.29(1.2)	-

EFFLUENT LOADING RATE (GPD/SQ.FT)

LOADING RATE CRITERIA LISTED BELOW APPLY TO THE UPGRADE OF EXISTING SYSTEMS PURSUANT TO 310 CMR 15.405(1)(C), OR SYSTEMS CONSTRUCTED PURSUANT TO 310 CMR 15.417

40	-	-	0.25 (I.0)	-
5 <i>0</i>	-	-	0.20(0.8)	0.20(0.8)
60	-	-	0.15 (0.6)	0.15 (0.6)

SIZING CALCULATIONS

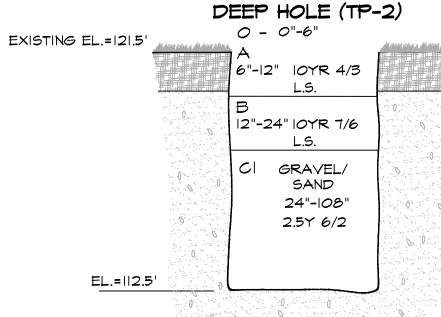
- DESIGN FLOW: 5 BEDROOMS X 110 GAL/BEDROOM = 550 GPD - ADD GARBAGE DISPOSAL: 825 GPD

*- LEACHING AREA REQUIRED: 825 GPD / 0.74 GPD/SF = 1,115 SF *- SYSTEM AREA PROVIDED: 28' WIDE x 40' LONG = 1,120 SF - RESERVE AREA PROVIDED: 28' WIDE x 40' LONG = 1,1,20 SF

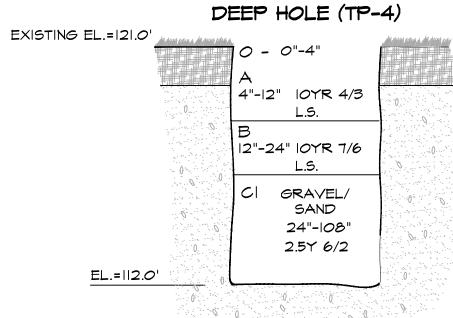
DEEP HOLE / PERC. TESTING

PERFORMED BY: THAD BERRY, P.E., ASB DESIGN GROUP, LLC WITNESSED BY: BOXFORD BOARD OF HEALTH - KENDELL LONGO DATE: OCTOBER 19, 2017 AND MAY 17, 2018

0 - 0"-6"



ESTIMATED HIGH WATER WATER WEEPING STANDING WATER

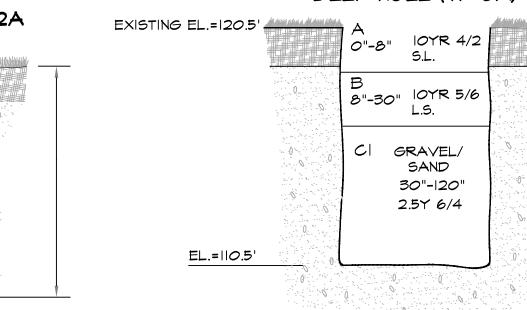


05/17/2018

25 GALLONS

ESTIMATED HIGH WATER WATER WEEPING STANDING WATER

PERC TEST 2 AND 2A



REFUSAL ESTIMATED HIGH WATER WATER WEEPING STANDING WATER

LEACHING AREA SIZING

NO. OF BEDROOMS	5
GALLONS PER. DAY/BEDROOM	
BASE DESIGN FLOW	550 GPD
ADD GARBAGE DISPOSAL	825 GPD
PERCOLATION RATE	5 MIN/IN
CLASS SOIL	0.74
* TOTAL AREA REQUIRED	I,II5 S.F.
* LEACHING AREA PROVIDED	1,120 S.F.
RESERVE AREA PROVIDED	

SEPTIC TANK SIZING

200% DESIGN FLOW

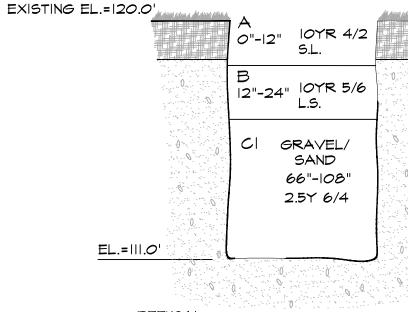
TOTAL DESIGN FLOW 825 GPD 200% x 825 GALS/DAY = 1,650 GPD (MIN. REQUIRED) * SEPTIC TANK USED 2000 GAL

2-COMPARTMENT

DESIGN ELEVATIONS

(ALSO SEE PROFILE, CROSS-SECTIONS & PLANS)

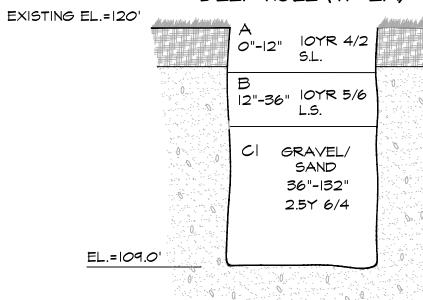
	BED
EXISTING DESIGN ELEVATION	<u> 120.5'</u>
S.H.W.T (NONE @ 9')	III.5 <i>0</i> '
BOTTOM OF BED (+6.5' MIN.)	<u> 8.00' </u>
BOTTOM OF PIPE (MIN. +0.5')	
TOP OF STONE (+0.5')	<u> 119.00'</u>
D-BOX OUT	
D-BOX IN (+0.17')	
SEPTIC TANK OUT	
SEPTIC TANK IN (+0.25')	
INV AT HOUSE	120.92
TOP OF FOUNDATION	<u> 125.00' </u>



REFUSAL NONE AT 108" ESTIMATED HIGH WATER WATER WEEPING STANDING WATER

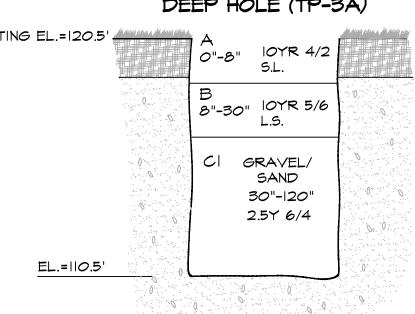
DEEP HOLE (TP-IA)

DEEP HOLE (TP-2A)

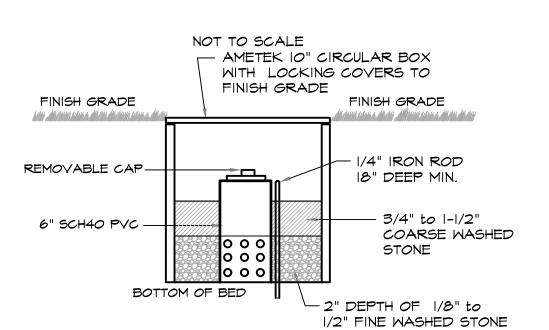


AT 120" 7.5YR 5/8 ESTIMATED HIGH WATER WATER WEEPING AT 126" STANDING WATER

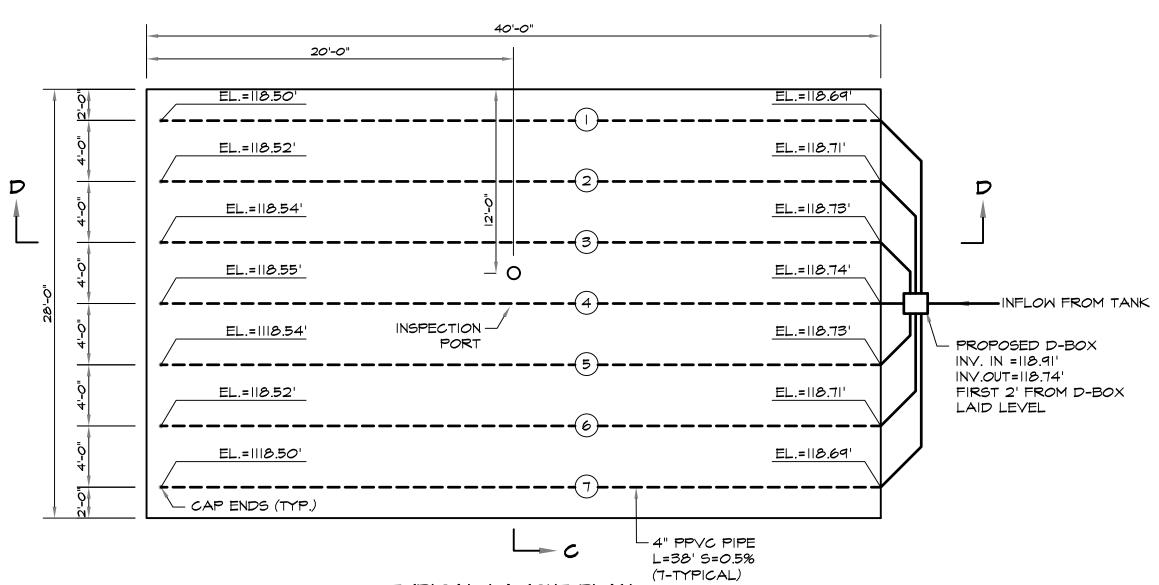
DEEP HOLE (TP-3A)



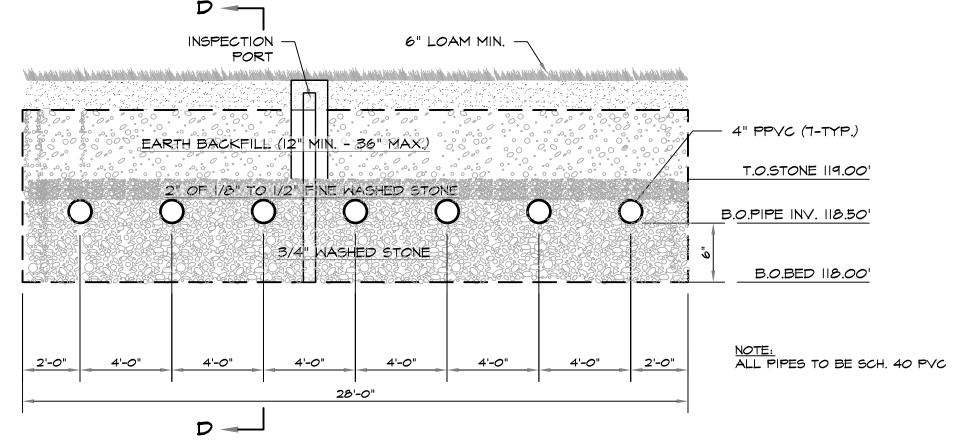
NOTE: CONTRACTOR SHALL EXCAVATE AND CONFIRM INVERT AT BUILDING. CONTRACTOR SHALL REPORT ANY DISCREPANCY TO THE BOARD OF HEALTH AND THE DESIGN ENGINEER. CONTRACTOR SHALL UPON APPROVAL MAKE ALL NECESSARY FIELD ADJUSTMENTS THAT MAY BE REQUIRED.



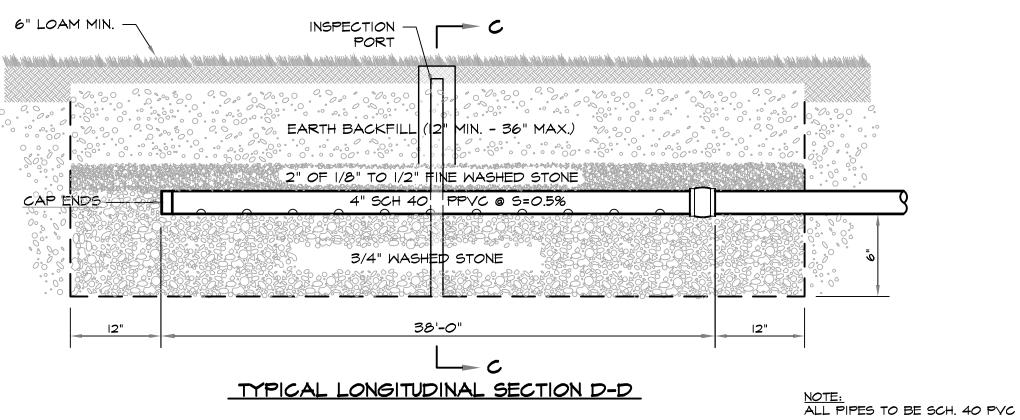
INSPECTION PORT DETAIL NOT TO SCALE



TYPICAL LAYOUT PLAN

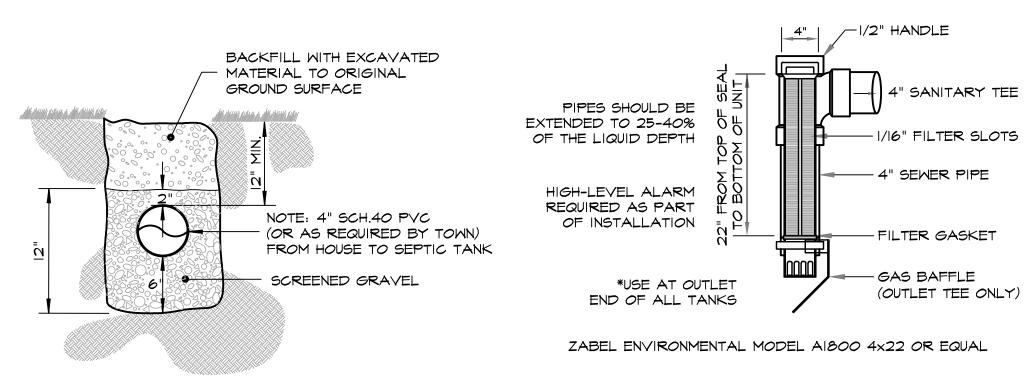


TYPICAL CROSS SECTION C-C



LEACHING BED DETAILS

NOT TO SCALE



TYPICAL CONNECTION TRENCH

NOT TO SCALE

OUTLET EFFLUENT FILTER NOT TO SCALE

NOTE: THIS SHEET WAS DESIGNED

BY ASB DESIGN GROUP LLC AND

PREVISOULY APPROVED BY

DATED 7/2/18.

BOXFORD BOARD OF HEALTH

CLAUDIO SENA 146 GEORGETOWN ROAD BOXFORD, MA, 01921

Revisions

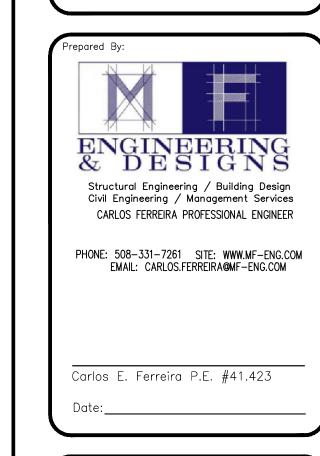
06/11/21

Date

NOI SUBMITTAL

Description

142 FISHER STREET LLC 142 FISHER STREET WESTBOROUGH, MA 01581

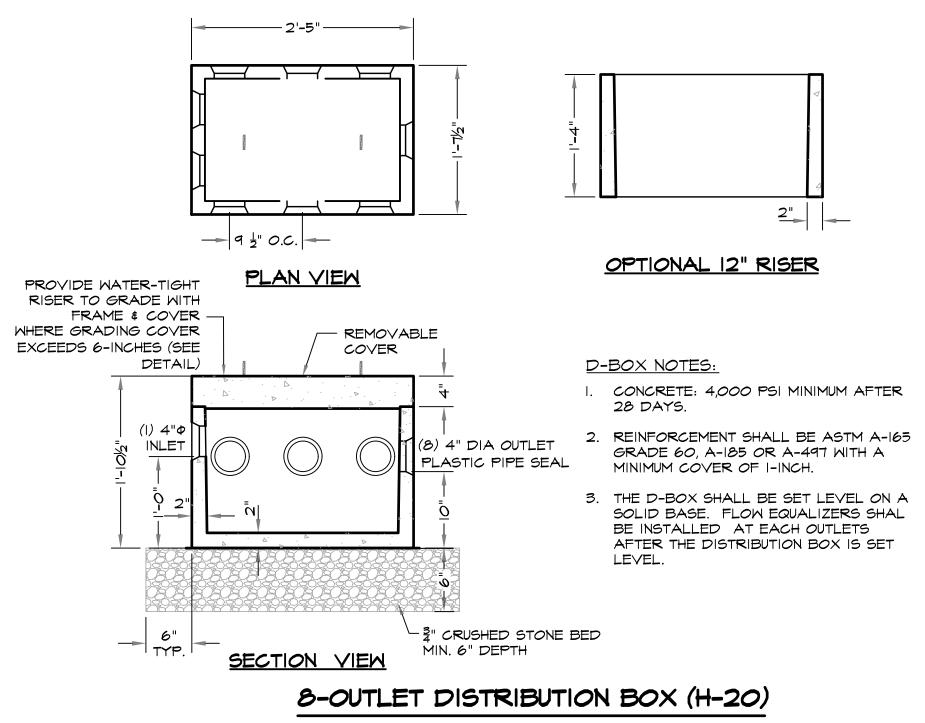


NOTICE OF INTENT SENA RESIDENCE

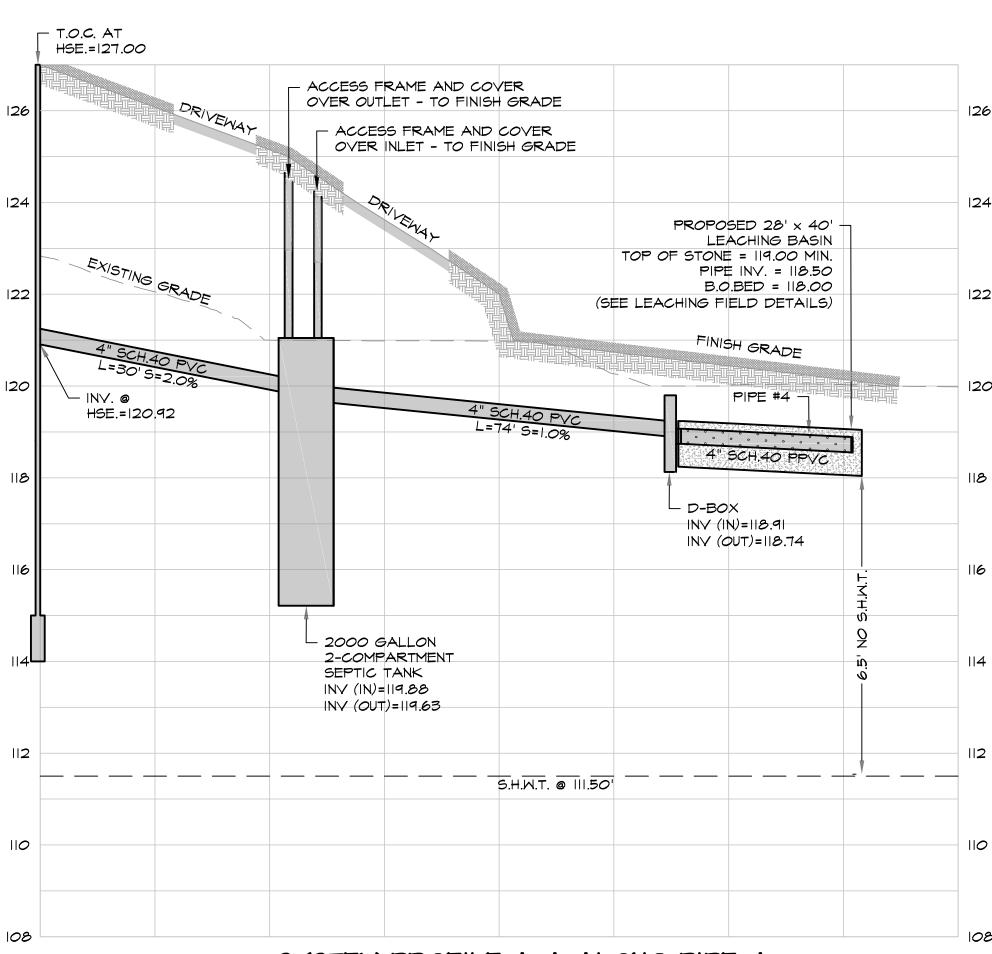
roject Title

SEPTIC SYSTEM DESIGN AND CALCULATIONS

 $SCALE \mid 1"=2$ DRAWN CMS CHECKED | CEF FILE NAME 146 GEORGETOWN PROJECT | 146 GEORGETOWN RD ISSUE DATE 05/21/2021 JOB NO. 146-0521



NOT TO SCALE

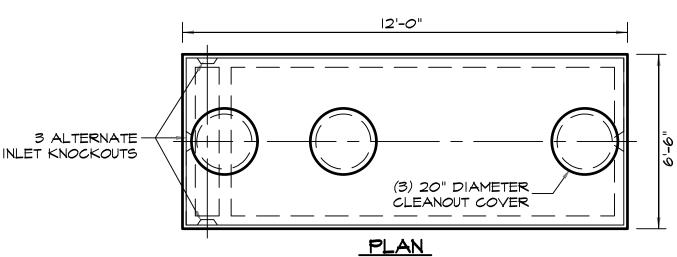


SYSTEM PROFILE A-A ALONG PIPE 4

SCALE: I" = 20' HORIZONTAL

NOTE: ALL PIPES TO BE SCH. 40 PVC

I" = 2' VERTICAL



INSTALL EFFLUENT -FILTER AT OUTLET ACCESS COVER \$ HANDLE -(ZABEL MODEL FINISH SURFACE 20" MIN. DIA. (TYP.) A1800-HIP) 6" MIN. COVER 4" PVC SCH 40 4"Φ¬ INLET LIQUID LEVEL 1500 GAL -4" PVC SCH 40 TEES (TYP.) CAST IN PLACE CONCRET TEES NOT ALLOWED 6" CRUSHED STONE TO -500 BE PLACED TO MINIMIZE GAL. UNEVEN SETTLING

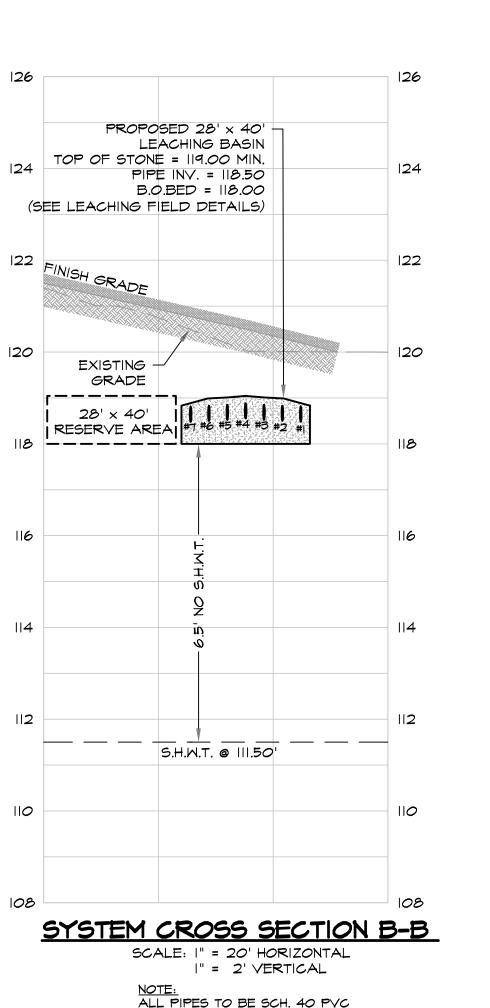
PROVIDE A MINIMUM 2,000 GALLON MONOLITHIC TANK.

SECTION

- 2. CONCRETE MINIMUM STRENGTH: 4,000 PSI AFTER 28 DAYS.
- 3. ALL JOINTS SHALL BE SEALED WITH I" BUTYL RUBBER OR EQUAL.
- 4. INSTALL LEVEL AND TRUE ON A LEVEL BASE THAT HAS BEEN MECHANICALLY COMPACTED.
- 5. USE SHEA CONCRETE MODEL 'TK-COMBO H-20' OR EQUAL.

SEPTIC TANK 2-COMPARTMENT 2,000 GALLON TANK

NOT TO SCALE



GENERAL NOTES

- I. CONTRACTOR SHALL INSTALL EROSION CONTROL SOCK PRIOR TO CONSTRUCTION.
- 2. CONTRACTOR SHALL STOCKPILE ALL LOAM AND SURROUND AREA WITH EROSION CONTROL SOCK.

LOAM & SEEDING NOTES

LOAMING, SEEDING AND FERTILIZING

- I. IF REQUIRED THE CONTRACTOR SHALL FURNISH ALL TOPSOIL OR ADDITIONAL TOPSOIL NEEDED TO COMPLETE THE JOB. IF THE EXISTING TOPSOIL IS SUFFICIENT TO COMPLETE THE JOB, ANY EXCESS TOPSOIL WILL REMAIN ON SITE. AN AREA WILL BE PROVIDED ON SITE FOR FINAL STORAGE.
- 2. THE TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED ON THE DESIGNATED AREAS AND IT SHALL BE A MINIMUM DEPTH OF SIX INCHES AFTER FIRMING. SPREADING SHALL BE PERFORMED IN SUCH A MANNER THAT SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS. TOPSOIL SHALL NOT BE PLACED WHILE IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBGRADE IS EXCESSIVLY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING OR PROPOSED SEEDING.
- 3. AFTER LOAM HAS BEEN PLACED, LIME AND FERTILIZER SHALL BE UNIFORMLY MIXED INTO THE TOP FOUR INCHES OF SOIL BY DISCING, HARROWING OR USING OTHER APPROVED METHODS.
- 4. ANY UNDULATIONS OR IRREGULARITIES IN THE SURFACE RESULTING FROM FERTILIZING, LIMING, SURFACE ROUGHINING OR OTHER CAUSES SHALL BE LEVELED PRIOR TO SEEDING. FLOODED, WASHED-OUT OR OTHERWISE DAMAGED AREAS SHALL BE RECONSTRUCTED AND ALL GRADES RE-ESTABLISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE DRAWINGS AND/ OR OTHER APPLICABLE SPECIFICATIONS.
- 5. PRIOR TO SEEDING THE SURFACE SHALL BE CLEARED OF ALL TRASH, DEBRIS AND STONES LARGER THAN ONE AND ONE-HALF INCHES IN DIAMETER, AND OF ALL ROOTS, BRUSH, WIRE, GRADE STAKES AND OTHER OBJECTS THAT WOULD INTERFERE WITH PLANTING OR MAINTENANCE OPERATIONS.
- 6. BROADCAST SEED AND MULCH. PLACE STRAW AND ANCHOR IT TO TOPSOIL. IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDLINGS WITH ADEQUATE WATER FOR PLANT GROWTH. (1/2"-I" EVERY 3-4 DAYS DEPENDING ON SOIL TEXTURE) UNTIL THEY ARE FIRMLY ESTABLISHED.

REPAIRS AND MAINTENANCE

INSPECT ALL SEEDED AREAS FOR FAILURES AND MAKE NECESSARY REPAIRS, REPLACEMENTS AND RESEEDINGS WITHIN THE PLANTING SEASON.

- I. ONCE THE VEGETATION IS ESTABLISHED, THE SITE SHALL HAVE 95% GROUNDCOVER TO BE CONSIDERED ADEQUATELY STABILIZED.
- IF THE STAND PROVIDES LESS THAN 40% GROUND COVERAGE, REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER, SEEDBED PREPARATION AND SEEDING RECOMMENDATIONS.
- 3. IF THE STAND PROVIDES BETWEEN 40% AND 94% GROUND COVER AGE, OVERSEEDING AND FERTILIZING USING HALF OF THE RATES ORIGINALLY APPLIED MAY BE NECESSARY.

SURFACE PREPARATION

- I. STRIP AND STOCKPILE ALL EXISTING LOAM FROM PROPOSED WORK AREAS. PROTECT LOAM FROM EROSION. ALL LOAM WILL REMAIN ON SITE UNLESS THE OWNER APPROVES OF OFF SITE REMOVAL.
- 2. SET FIELD GRADES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
 PROVIDE PROPER SURVEY CONTROL AND MAINTAIN THROUGHOUT
 CONSTRUCTION. PROVIDE ENGINEER WITH COPIES OF ALL SURVEY NOTES
 AND LOCATIONS OF BOTH VERTICAL AND HORIZONTAL CONTROL.
- 3. BRING BASE MATERIAL TO FINISH GRADE. PROVIDE ENGINEER WITH AS-BUILT DRAWINGS SHOWING FINISH ELEVATIONS AND CONTOURS PRIOR TO PLACEMENT OF LOAM.
- 4. SOIL TESTS SHALL BE MADE TO DETERMINE THE EXACT REQUIREMENTS FOR BOTH LIME AND FERTILIZER. SOIL TESTS SHALL BE CONDUCTED BY A STATE LABORATORY OR RECOGNIZED COMMERCIAL LABORATORY. PROVIDE ENGINEER WITH COPY OF TEST RESULTS AND RECOMENDATIONS FOR LIMING AND FERTILIZING.
- 5. AFTER THE AREAS TO BE TOPSOILED HAVE BEEN APPROVED BY THE OWNER OR ENGINEER, AND IMMEDIATLY PRIOR TO DUMPING AND SPREDDING THE TOPSOIL, THE SUBGRADE SHALL BE LOOSENED BY ROUGHENING TO THE DEPTH OF AT LEAST TWO INCHES TO PERMIT BONDING OF THE TOPSOIL TO THE SUBSOIL AND TO INCORPORATE THE LIME.
- 6. ACCEPTANCE SHALL BE GIVEN BY THE OWNER OR ENGINEER UPON SATISFACTORY COMPLETION OF EACH SECTION OR AREA AS INDICATED ON THE DRAWINGS OR AS OTHERWISE SPECIFIED BEFORE PLACEMENT OF TOPSOIL.

NOTE: THIS SHEET WAS DESIGNED BY ASB DESIGN GROUP LLC AND PREVISOULY APPROVED BY BOXFORD BOARD OF HEALTH DATED 7/2/18.



06/11/21 NOI SUBMITTAL
. Date Description

Revisions

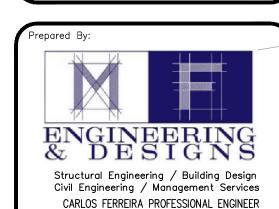
Prepared for:

CLAUDIO SENA

146 GEORGETOWN ROAD

BOXFORD, MA, 01921

Property of: 142 FISHER STREET LLC 142 FISHER STREET WESTBOROUGH, MA 01581



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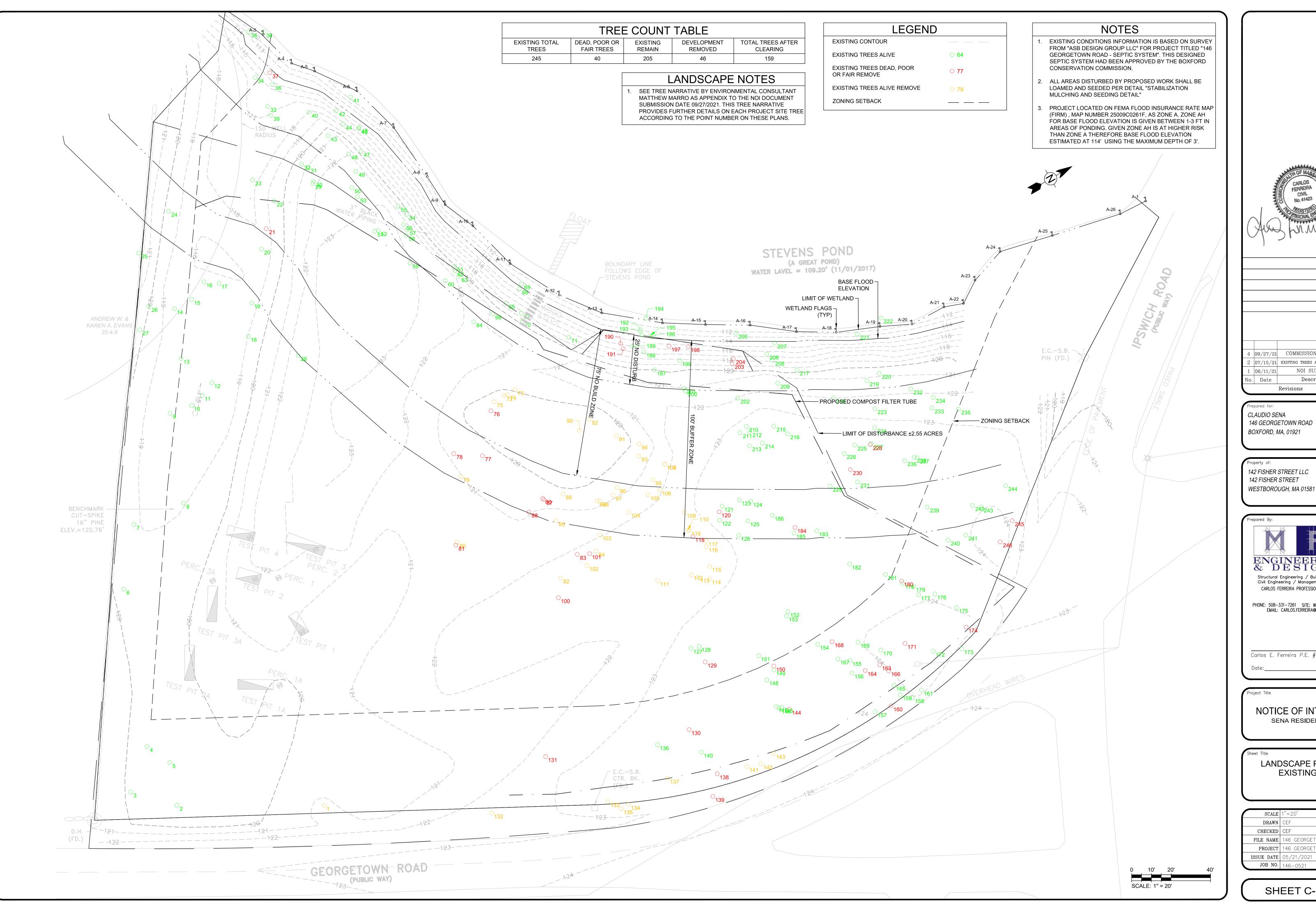
Carlos E. Ferreira P.E. #41.423

roject Title

NOTICE OF INTENT SENA RESIDENCE

SEPTIC SYSTEM
PROFILES AND
DETAILS

1	SCALE	1 = 20
	DRAWN	CMS
	CHECKED	CEF
	FILE NAME	146 GEORGETOWN
	PROJECT	146 GEORGETOWN RD
	ISSUE DATE	05/21/2021
1	JOB NO.	146-0521





4 |09/27/21 COMMISSION COMMENTS 2 | 07/15/21 | EXISTING TREES AND WETLAND LINI NOI SUBMITTAL 1 06/11/21

Date Description Revisions

142 FISHER STREET LLC 142 FISHER STREET WESTBOROUGH, MA 01581

Structural Engineering / Building Design Civil Engineering / Management Services CARLOS FERREIRA PROFESSIONAL ENGINEER

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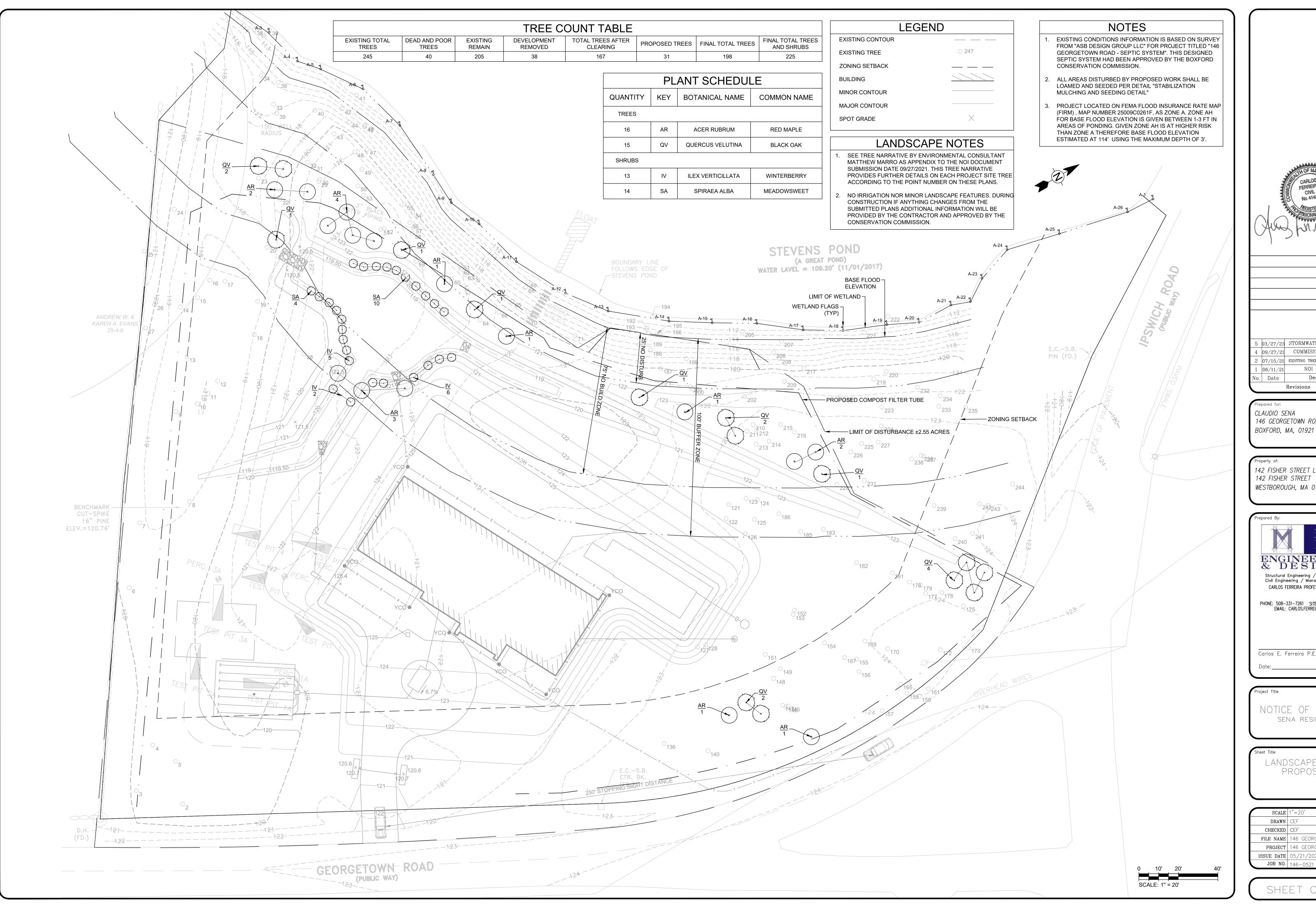
Carlos E. Ferreira P.E. #41.423

NOTICE OF INTENT SENA RESIDENCE

LANDSCAPE PLAN **EXISTING**

DRAWN CE CHECKED CEF FILE NAME 146 GEORGETOWN PROJECT 146 GEORGETOWN RD ISSUE DATE 05/21/2021

JOB NO. 146-0521





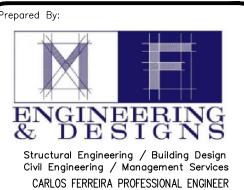
03/27/23 STORMWATER MANAGEMENT 4 |09/27/21| COMMISSION COMMENTS |07/15/21| EXISTING TREES AND WETLAND LINE NOI SUBMITTAL l |06/11/21

Description

CLAUDIO SENA 146 GEORGETOWN ROAD

Revisions

142 FISHER STREET LLC 142 FISHER STREET WESTBOROUGH, MA 01581



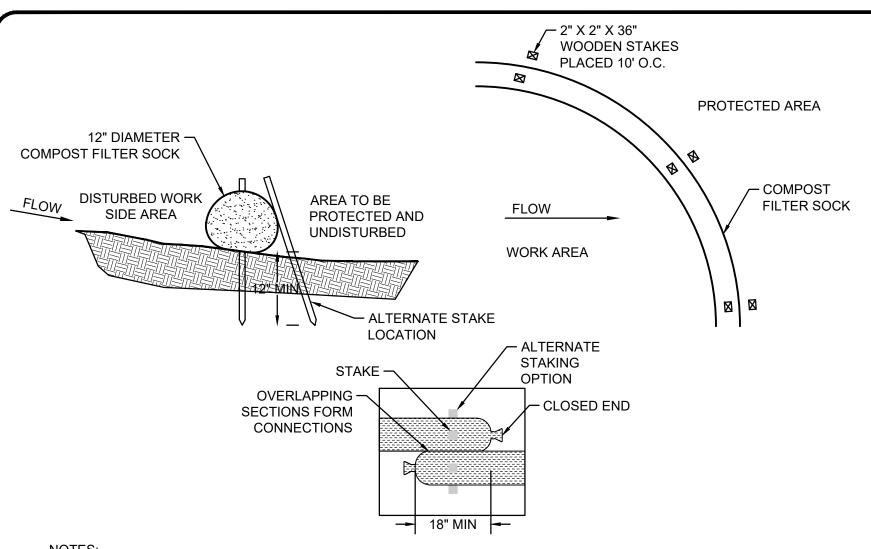
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Carlos E. Ferreira P.E. #41.423

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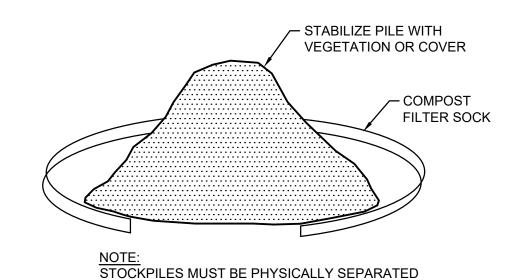
LANDSCAPE PLAN PROPOSED

- 1	SCALE	1 = 20
	DRAWN	CEF
	CHECKED	CEF
	FILE NAME	146 GEORGETOWN
	PROJECT	146 GEORGETOWN RD
	ISSUE DATE	05/21/2021
1	JOB NO.	146-0521
	*	



- 1. PREFABRICATED COMPOST SOCK SHALL BE FILTREXX SOXX OR APPROVED EQUAL.
- 2. MATERIAL FOR SOCKS SHALL CONSIST OF SANITIZED MATURE COMPOST, FREE OF VIABLE WEED SEEDS AND FOREIGN DEBRIS SUCH AS GLASS AND PLASTIC. COMPOST SHALL BE IN SHREDDED OR GRANULAR FORM AND FREE FROM HARD LUMPS. IN ADDITION, NO KILN-DRIED WOOD OR CONSTRUCTION DEBRIS SHALL BE ALLOWED. CONTRACTOR SHALL REFER TO MASSDOT SPECIFICATIONS M1.06.0 FOR MATERIAL SPECIFICATIONS.
- 3. SOCK SHALL CONSIST OF JUTE MESH OR OTHER APPROVED BIODEGRADABLE MATERIAL.

COMPOST FILTER TUBE NOT TO SCALE



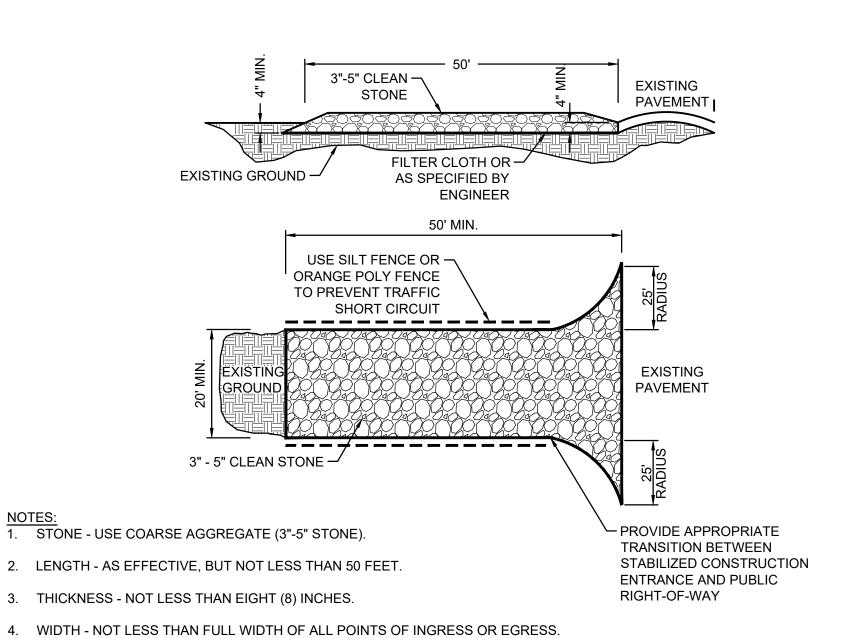
FROM OTHER STORMWATER CONTROLS.

STOCKPILES MUST BE PHYSICALLY SEPARATED FROM OTHER STORMWATER CONTROLS.

SOIL STOCKPILES: FOR ANY STOCKPILED OR LAND CLEARING DEBRIS COMPOSED, IN WHOLE OR IN PART, OF SEDIMENT OR SOIL, THE FOLLOWING MEASURES MUST BE FOLLOWED:

- LOCATE THE PILES OUTSIDE OF ANY NATURAL BUFFERS AND PHYSICALLY SEPARATED FROM OTHER STORMWATER CONTROLS.
- PROTECT FROM CONTACT WITH STORMWATER (INCLUDING RUN-ON) USING A TEMPORARY
- PERIMETER SEDIMENT BARRIER;
- PROVIDE COVER OR APPROPRIATE TEMPORARY STABILIZATION TO AVOID DIRECT
- CONTACT WITH PRECIPITATION OR TO MINIMIZE SEDIMENT DISCHARGE;
- DO NOT HOSE DOWN OR SWEEP SOIL OR SEDIMENT ACCUMULATED ON PAVEMENT OR OTHER IMPERVIOUS SURFACES INTO ANY STORMWATER CONVEYANCE (UNLESS CONNECTED TO A SEDIMENT BASIN, SEDIMENT TRAP, OR SIMILARLY EFFECTIVE CONTROL), STORM DRAIN INLET, OR SURFACE WATER;

SOIL STOCKPILING CONTROL NOT TO SCALE



STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

ALL CONCRETE TRUCKS SHALL+ BLACK LETTERS ON WASHOUT HERE WHITE BACKGROUND · ANCHOR BALES WITH (2) 2"x2"x4' STAKES PER BALE GALVANIZED "U' CHANNEL POST POLYETHYLENE -SHEETING — FINISH GRADE BALES TO BUTT SIGN SHALL BE PLACED IN A PROMINENT LOCATION - AGGREGATE AT WASHOUT AREA — 6" MIN IMBEDMENT BINDING WIRE (TYPICAL) EXISTING GRADE— STRAW BALE (TYPICAL) POLYETHYLENE SHEETING WOOD STAKE (TYPICAL) SHGWT — 6" MIN DEPTH AGGREGATE ALL AROUND

NOTES:

- CONTAINMENT MUST BE STRUCTURALLY SOUND AND LEAK FREE AND CONTAIN ALL LIQUID WASTES.
- 2. CONTAINMENT DEVICES MUST BE OF SUFFICIENT QUANTITY OR VOLUME TO COMPLETELY CONTAIN THE LIQUID WASTES GENERATED.
- 3. WASHOUT MUST BE CLEANED OR NEW FACILITIES CONSTRUCTED AND READY TO USE ONCE WASHOUT IS 75% FULL.
- 4. WASHOUT AREA(S) SHALL BE INSTALLED IN A LOCATION EASILY ACCESSIBLE BY CONCRETE TRUCKS.
- 5. ONE OR MORE AREAS MAY BE INSTALLED ON THE CONSTRUCTION SITE AND MAY BE RELOCATED AS CONSTRUCTION PROGRESSES.

- LINE WITH CLEAN

WASHED STONE

- CLEAN WASHED

STONE

FROM THE CATCH BASIN

TURNING THE BAG INSIDE OUT.

STITCHED WITH HEAVY DUTY MARINE

QUALITY THREADS.

GEOTEXTILE FABRIC INLET PROTECTION

NOT TO SCALE

CONSTRUCTED OF HIGH STRENGTH WOVEN

GEOTEXTILE FABRIC. ALL SEAMS DOUBLE

- EXCAVATE AROUND

PERIMETER OF CATCH BASIN

- INSTALL STONE BARRIER AROUND

CATCH BASIN STRUCTURE

PIPE POCKET TO ACCEPT UP TO 2" DIAMETER

FACILITATE THE HOISTING OF THE FILLED BAG

- INVERSION STRAPS. ONCE REMOVED FROM THE CATCH BASIN, THE BAG IS HOISTED FROM THE INVERSION STRAPS TO EMPTY THE CONTENTS

SCHEDULE 80 PIPE. PIPE IS INSTALLED TO

AT LEAST WEEKLY REMOVE ACCUMULATION OF SAND AND AGGREGATE AND DISPOSE OF PROPERLY.

EXISTING OR -

EXISTING OR -

PROPOSED GRATE

- GEOTEXTILE

GEOTEXTILE

FABRIC

FABRIC

PROPOSED GRATE

CATCH BASIN —

CATCH BASIN —

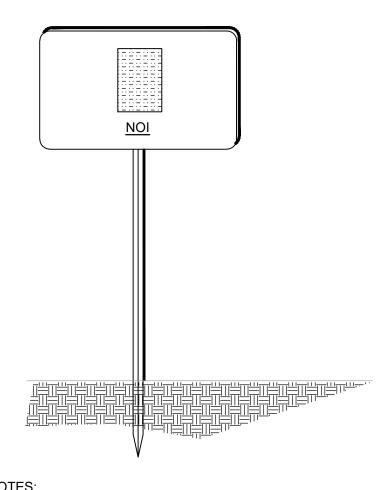
ALLOWS WATER FLOW -

WHILE TRAPPING SILT,

SAND, AND SEDIMENTS.

CONCRETE WASHOUT AREA

NOT TO SCALE



NOTES:

1. CONSTRUCTION SITE NOTICE SHALL BE

2. POSTING IS TO BE AT JOB SITE ENTRANCE WHERE IT WILL BE VISIBLE AND LEGIBLE FROM THE PUBLIC WAY.

3. POSTING IS REQUIRED FROM THE DAY CONSTRUCTION ACTIVITIES START UNTIL THE NOTICE OF TERMINATION (NOT) IS FILED.

JOB SITE PERMIT POSTING DETAIL NOT TO SCALE

TREE SHALL BE PLANTED SO THAT GRADE AFTER SETTLEMENT DO NOT CUT LEADER 2-3 INCHES AGED PINE BARK MULCH TREE WRAP SHALL NOT BE USED (PULL MULCH AWAY FROM TRUNK) TREE SHALL BE SET PLUMB BACKFILL MIX WATERING SAUCER SHALL BE FLOODED TWICE DURING THE - 3 INCH HIGH EARTH WATERING FIRST 24 HOURS AFTER PLANTING SAUCER AROUND TREE PIT CUT & ROLL BACK 1/3 OF 6 INCHES BURLAP BEFORE BACKFILLING. BELOW = COMPLETELY REMOVE SYNTHETIC BURLAP & LACING ROOTBALL ROOTBALL - ROOTBALL SHALL BE PLACED ON

TREE PLANTING

3 X ROOTBALL DIAMETER

SEEDING NOTES RECOMMENDED LBS/ACRE LBS/1000 S.F. **SEEDING DATES SPECIES APRIL 1 TO JUNE 1** ANNUAL RYEGRASS 40 **AUG 1 TO SEPT 15** MAY 1 TO JUNE 30 **FOXTAIL MILLET** 0.7 APRIL 1 TO JULY 1 OATS 80 **AUG 15 TO SEPT 15 AUG 15 TO OCT 15** WINTER RYE 120

─ MULCH AS NEEDED TO MAINTAIN SURFACE STABILITY LIMIT OF WORK - EXISTING CROP LAND SEE PLAN 4" LOAM AND SEED

PREPARED SUBGRADE (CLEAN FILL ONLY)

MULCHING AND SEEDING DETAIL

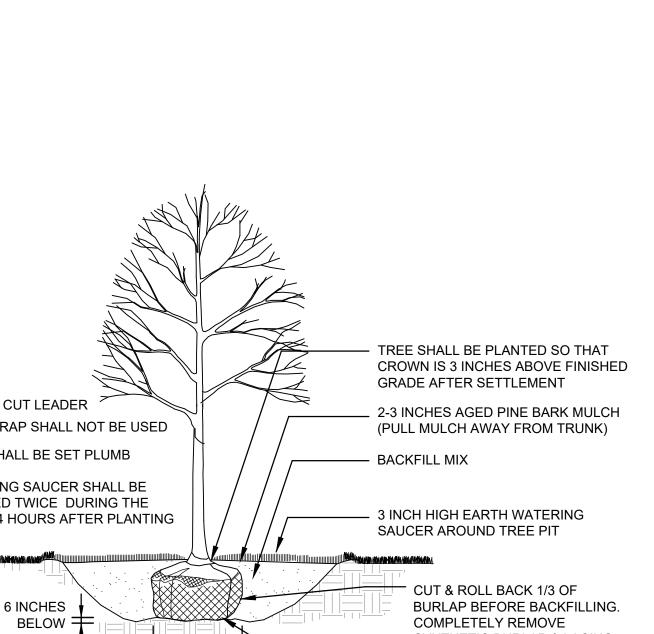
NOT TO SCALE

MULCH APPLICATION RATES:

HAY OR STRAW MULCH SHALL BE AIR-DRIED, FREE OF UNDESIRABLE SEEDS AND COARSE MATERIALS. APPLICATION RATE MUST BE 2 BALES (70-90 LBS) PER 1,000 SQUARE FEET OR 1.5 TO 2 TONS PER ACRE. NO BARE SPOTS SHOWING AND SHALL ONLY BE APPLIED TO SLOPES 3:1 OR FLATTER. ANCHORING METHODS INCLUDING NETTING WITH JUTE, WOOD FIBER OR PLASTIC; OR APPLY MULCH AND TRACK SURFACE UP AND DOWN THE SLOPE SO CLEAT MARKS ARE PARALLEL TO THE CONTOURS. FOR OVERWINTER APPLICATION, THE RATE SHALL BE 150 LBS PER 1,000 SQUARE FEET OR 3 TONS/ACRE. MULCH SHALL NOT BE SPREAD ON TOP OF SNOW; SNOW MUST BE REMOVED DOWN TO A ONE-INCH DEPTH OR LESS PRIOR TO APPLICATION.

STABILIZATION MULCHING AND SEEDING

(SEE SEEDING NOTES)



UNDISTURBED SUBGRADE

FILE NAME 146 GEORGETOWN PROJECT | 146 GEORGETOWN RD ISSUE DATE 05/21/2021 JOB NO. 146-0521

 $SCALE \mid 1"=2$

DRAWN CMS

CHECKED | CEF

NOI SUBMITTAL

Description

06/11/21

Date

CLAUDIO SENA

146 GEORGETOWN ROAD BOXFORD, MA, 01921

142 FISHER STREET LLC 142 FISHER STREET

WESTBOROUGH, MA 01581

Structural Engineering / Building Design

Civil Engineering / Management Services

PHONE: 508-331-7261 SITE: WWW.MF-ENG.COM

Carlos E. Ferreira P.E. #41.423

NOTICE OF INTENT

SENA RESIDENCE

CONSTRUCTION

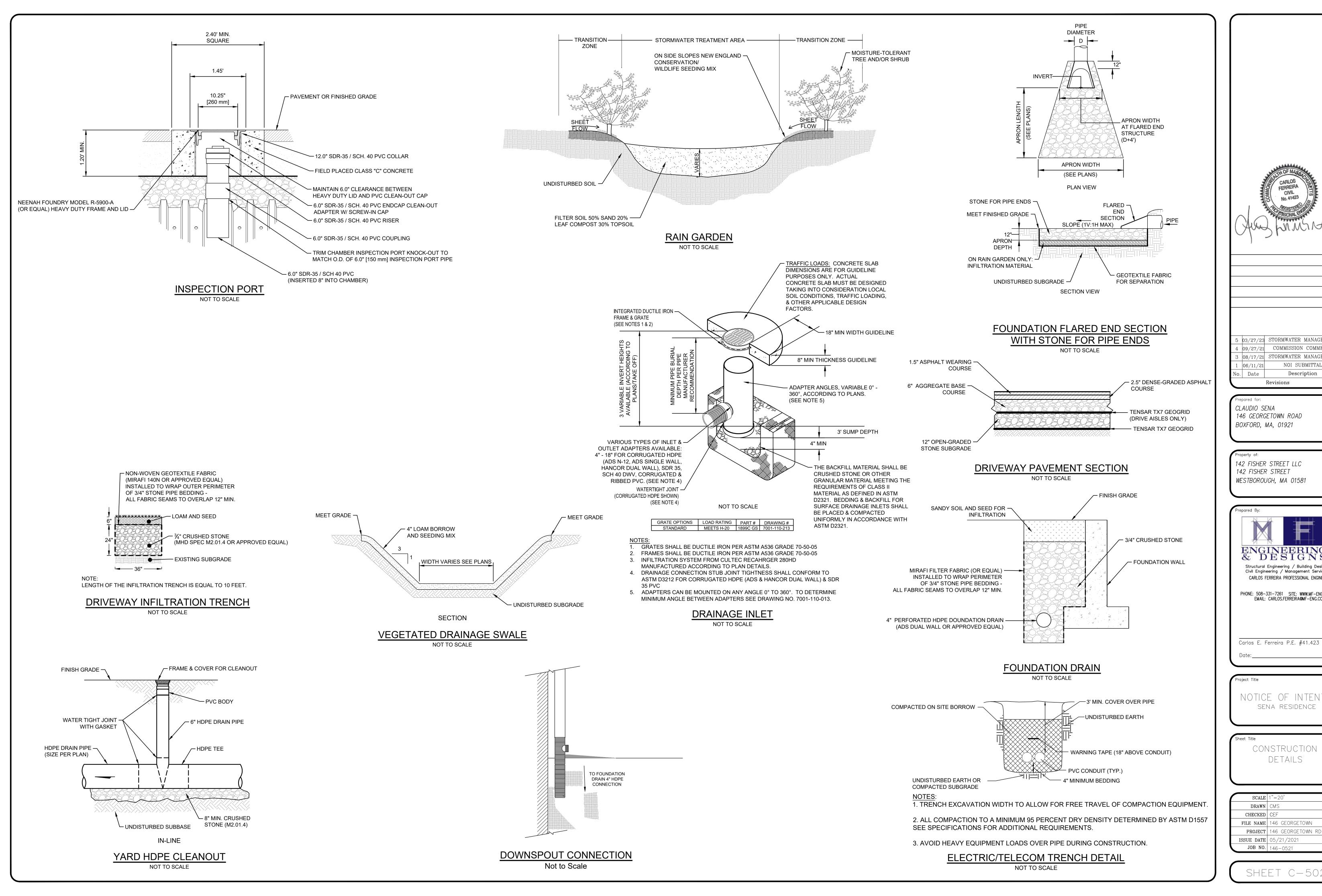
DETAILS

Project Title

EMAIL: CARLOS.FERREIRA@MF-ENG.COM

CARLOS FERREIRA PROFESSIONAL ENGINEER

Revisions





03/27/23 STORMWATER MANAGEMENT COMMISSION COMMENTS 08/17/21 STORMWATER MANAGEMENT NOI SUBMITTAL 06/11/21 Description Revisions

CLAUDIO SENA 146 GEORGETOWN ROAD BOXFORD, MA, 01921

142 FISHER STREET LLC 142 FISHER STREET WESTBOROUGH, MA 01581



NOTICE OF INTENT

CONSTRUCTION DETAILS

1	SCALE	1"=20'
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