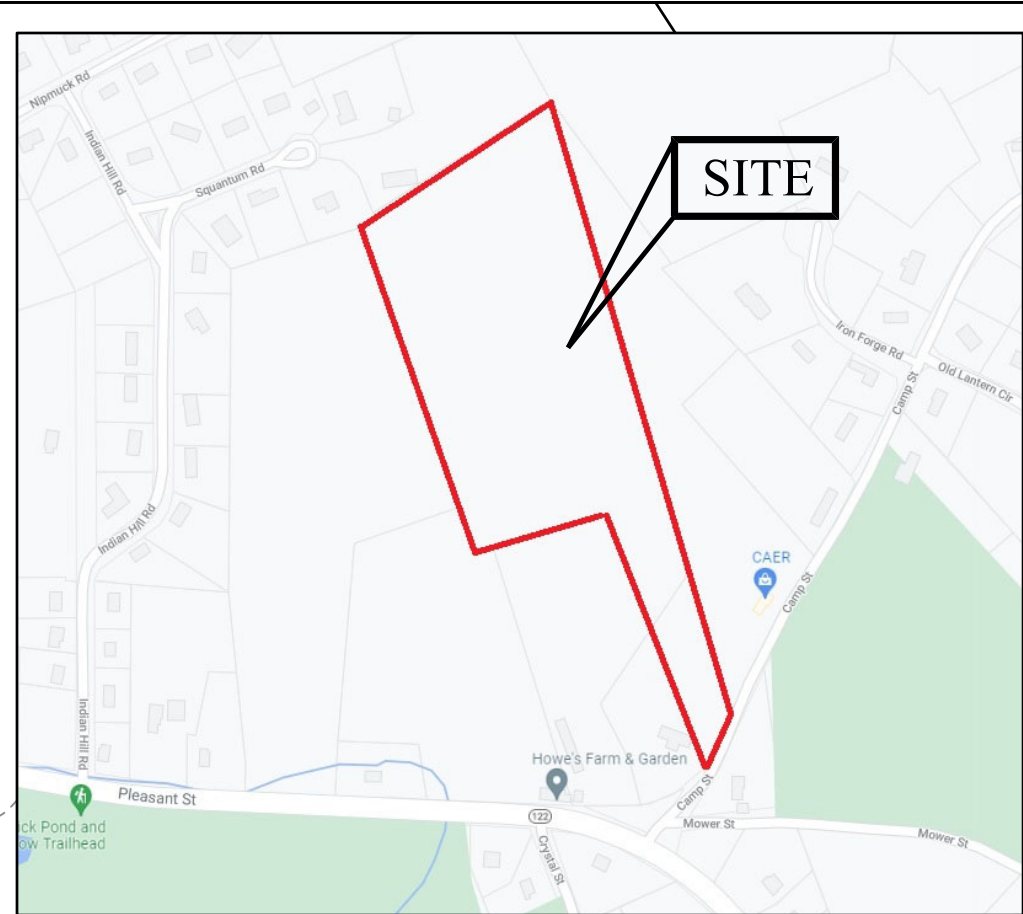
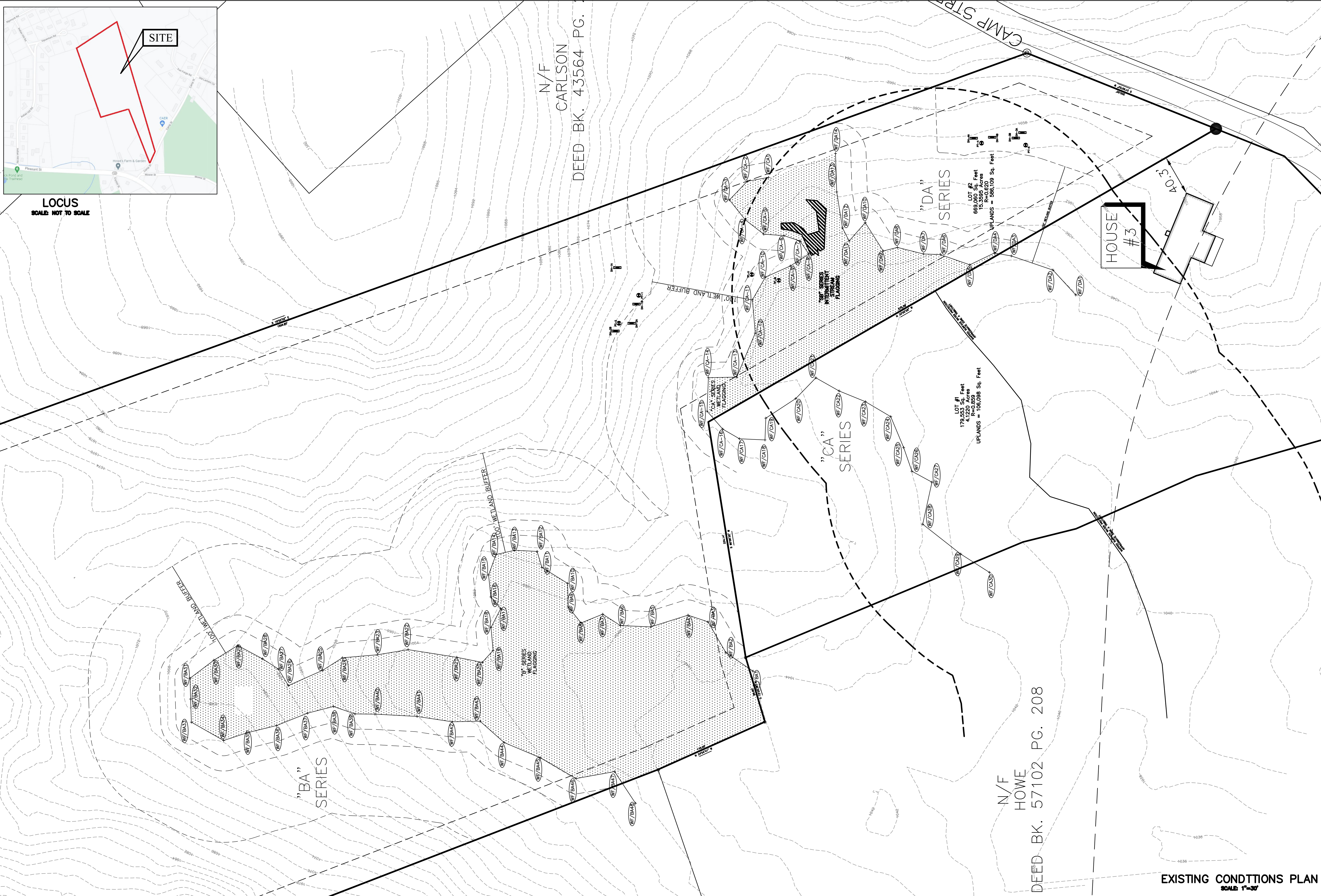




LOCUS
SCALE: NOT TO SCALE

QUINN
ENGINEERING, INC.
P.O. Box 107
Paxton, Massachusetts 01612
(508)753-7999 Fax: (508)795-0939

DATE: DECEMBER 23, 2021

EXISTING CONDITIONS
PLAN

CAMP STREET
SHEET 1 OF 4

PROPOSED SUBSURFACE SEWAGE DISPOSAL SYSTEM PLAN
PAXTON, MA
CAMP STREET

OWNER: A. FARRELL
3 CAMP STREET
PAXTON, MA 01612

APPLICANT:
CABEL MADDOX
3 CAMP STREET
PAXTON, MA 01612

SCALE: 1" = 30'

30 60 90 120

DIG
SAFE
DIAL-811

NO.	REVISION	DATE

KEVIN J. QUINN CIVIL #33922



LOCUS
SCALE: NOT TO SCALE

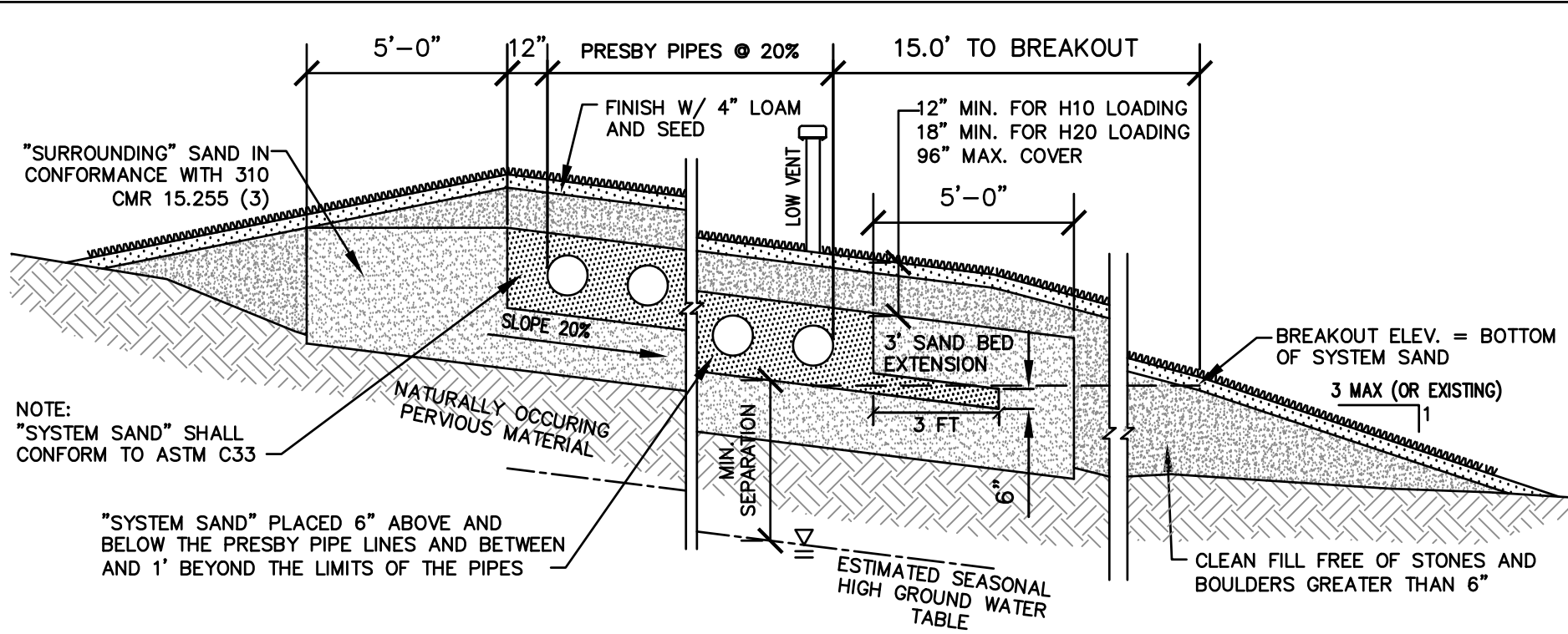
PROJECT NOTES:

- PROPERTY INFORMATION:
APPLICANT: CABELL MADDOUX
ADDRESS: CAMP STREET, PAXTON
ASSESSORS REF. MAP 20, PARCEL 1 + 1A
DEED REF. BOOK 49465 PAGE 84
OF THE PROPOSED SAS
- THE PROPERTY DOES NOT FALL WITHIN A FLOOD HAZARD ZONE AS INDICATED ON NRP FIRM COMMUNITY PANEL MAPS.
- NO PORTION OF THE PROPOSED WORK FALLS WITHIN A HARPED ESTIMATED HABITAT OF RARE WILDLIFE OR WITHIN A PRIORITY HABITAT OF RARE SPECIES.
- A PORTION OF THE PROPOSED SITE IS LOCATED WITHIN A ZONE A OF A SURFACE WATER PROTECTION AREA. THE LEACHING FIELD AND ITS COMPONENTS ARE OUTSIDE THE SURFACE WATER PROTECTION ZONE A.
- CONSERVATION APPROVAL IS REQUIRED FOR THE WORK SHOWN ON THIS PLAN.

RECORD DATA:

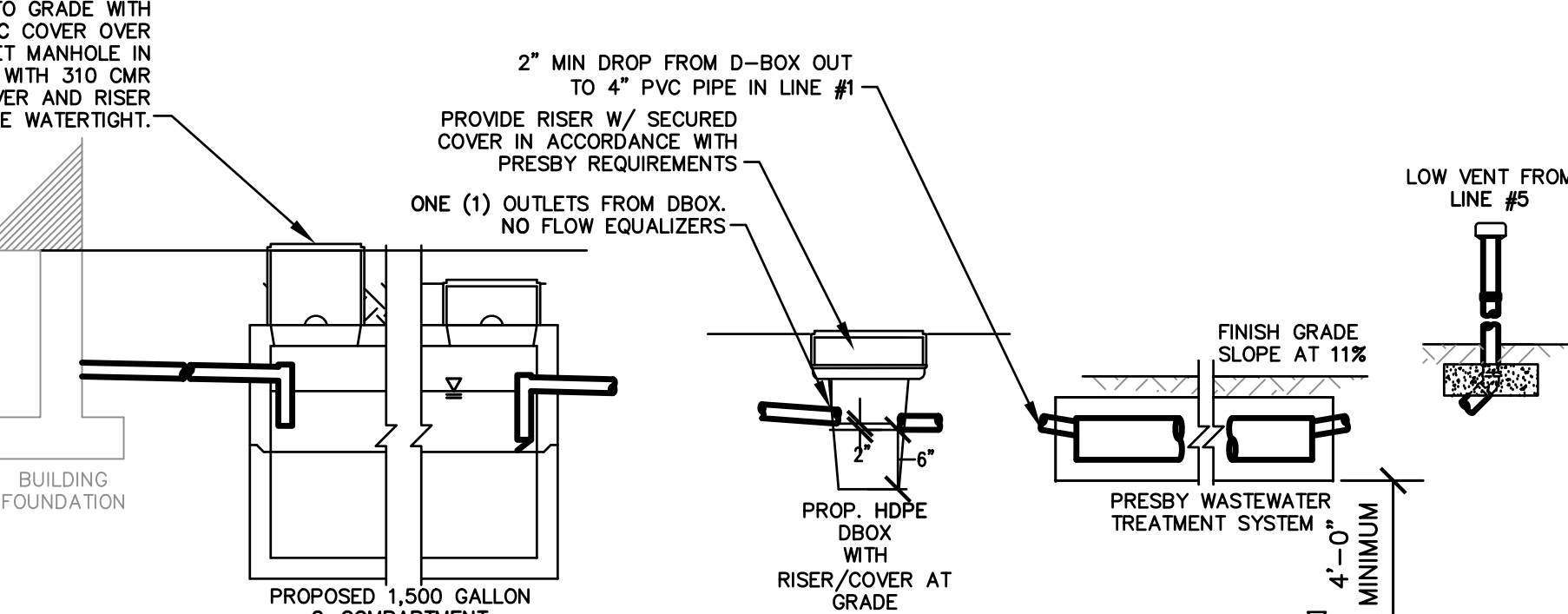
INV. AT FND	
INV. IN AT SEPTIC TANK	
INV. OUT AT SEPTIC TANK	
INV. IN AT DBOX	
INV. OUT AT DBOX	

LINE #	BOTTOM OF PIPE	INV. AT BEG./END
1		
2		
3		
4		
5		
6		
7		



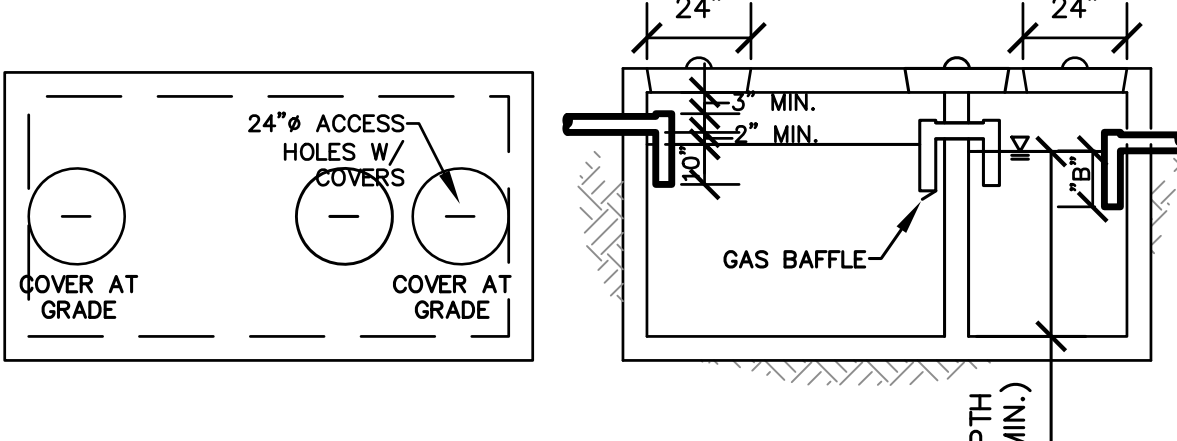
PRESBY ENVIRO-SEPTIC TREATMENT SYSTEM SECTION
SCALE: 1/4"=1'-0"

- NOTES:
- DIST. BOX TO BE PLACED ON A LEVEL & STABLE BASE THAT HAS BEEN COMPACTED BY A VIBRATORY COMPACTOR OR EQUAL.
 - MIN. 4'-0" ELEV. REQUIRED BETWEEN BOTTOM OF LEACHING AREA AND MAX. GROUNDWATER ELEVATION.
 - THE DESIGN ELEVATIONS INDICATED WILL PROVIDE AT LEAST THE MINIMUM SLOPES FOR THE LENGTHS INDICATED ON PLAN. IF ANY COMPONENT OF THE SYSTEM IS MOVED, THE DESIGN ELEVATIONS MAY NOT PROVIDE ADEQUATE SLOPE. CHECK WITH ENGINEER BEFORE MOVING ANY COMPONENT.
 - ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC TAPE OR A COMPARABLE MEANS IN ACCORDANCE WITH 310 CMR 15.221(12).

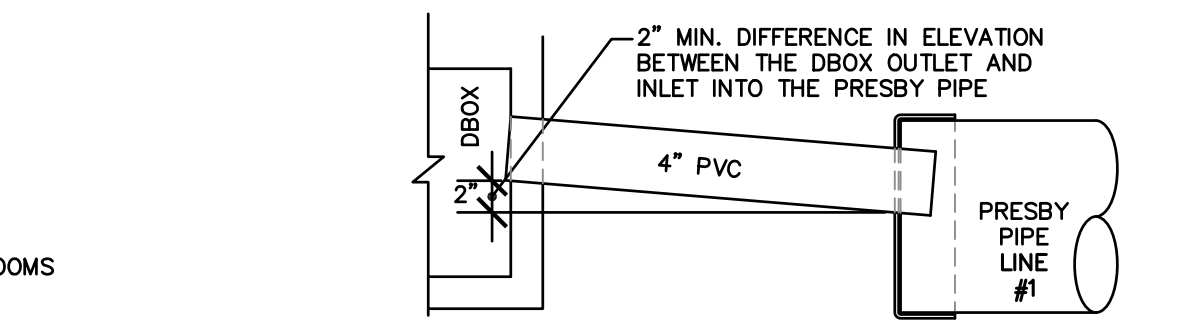


PROPOSED SEPTIC SYSTEM PROFILE
SCALE: NOT TO SCALE

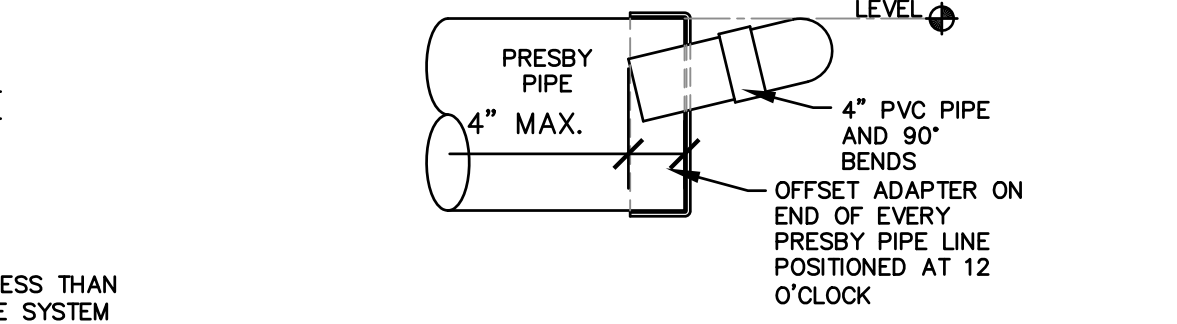
- NOTES:
- A = LIQUID DEPTH
 - B = 14" FOR 4" LIQUID DEPTH
 - B = 19" FOR 5" LIQUID DEPTH
 - B = 24" FOR 6" LIQUID DEPTH
 - TANK CONSTRUCTION SHALL CONFORM TO 310 CMR 15.000.
 - TANK SHALL BE CAPABLE OF CARRYING H10 WHEEL LOAD WITH THE PROP. SOIL OVERBURDEN.
 - PROVIDE RISERS WITH LOCKABLE, WATERTIGHT COVERS TO GRADE OVER BOTH TEE'S.



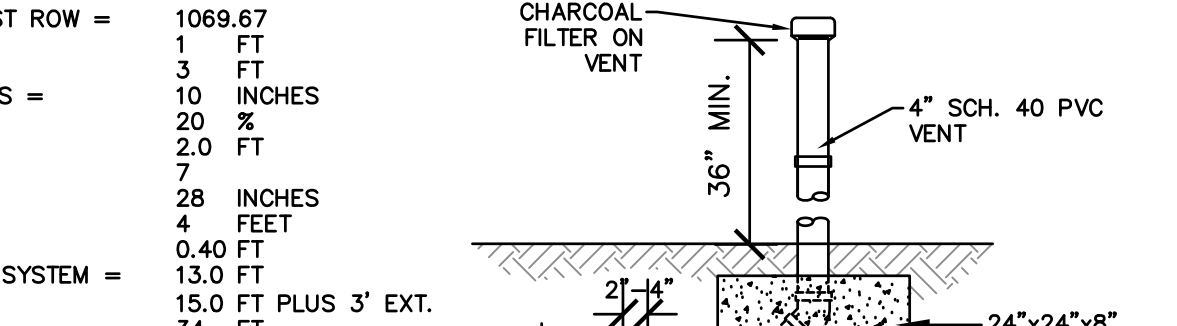
1,500 GALLON 2-COMPARTMENT SEPTIC TANK DETAIL
SCALE: NOT TO SCALE



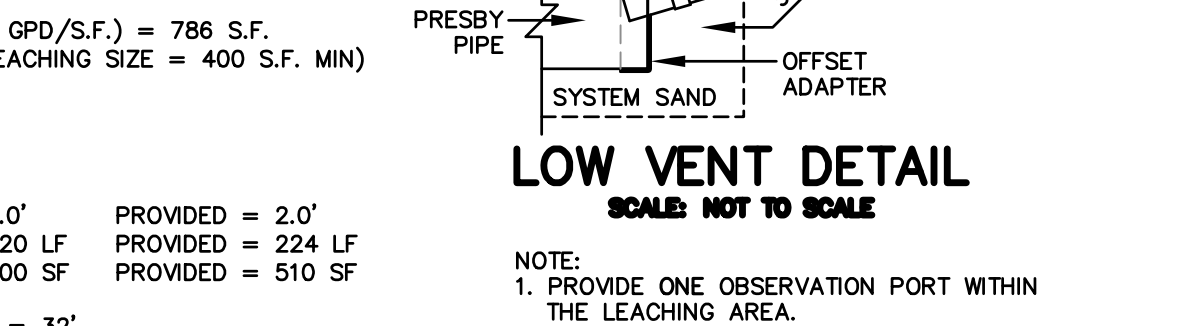
D-BOX CONNECTION DETAIL
SCALE: 1/4"=1'-0"



RAISED CONNECTOR END DETAIL
SCALE: NOT TO SCALE



LOW VENT DETAIL
SCALE: NOT TO SCALE



OBSERVATION PORT SECTION
SCALE: NOT TO SCALE

SYSTEM NOTES:

- PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE ENGINEER TO VERIFY THAT THE CONSTRUCTION PLANS ARE THE MOST CURRENT REVISION.
- ALL MODIFICATIONS TO THIS PLAN MUST BE PRE APPROVED IN WRITING BY THE DESIGN ENGINEER AND THE LOCAL BOARD OF HEALTH.
- ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM WITH THE LOCAL BOARD OF HEALTH AND THE STATE ENVIRONMENTAL CODE TITLE 5 (310 CMR 15.000) & THE MANUFACTURER'S SPECIFICATIONS.
- SEVENTY TWO HOURS PRIOR TO COMMENCING ANY EXCAVATION, THE CONTRACTOR SHALL NOTIFY DIG-SAFE AT 811. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF NEW UTILITIES WITHIN THE VICINITY OF EXISTING UTILITIES (UNDERGROUND AND OVERHEAD) WITH THE APPROPRIATE UTILITY PROVIDER.
- EXISTING UTILITY LOCATIONS ARE APPROXIMATE ARE TO BE FIELD VERIFIED. QUINN ENGINEERING, INC. DOES NOT WARRANT THAT ALL EXISTING UTILITIES HAVE BEEN INDICATED. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE EXISTING UTILITY LOCATIONS AND ENSURING THAT THE PROPOSED WORK DOES NOT CONFLICT WITH THE EXISTING UTILITIES (SHOWN OR NOT SHOWN).
- THE SYSTEM WAS NOT DESIGNED TO FACILITATE A GARBAGE DISPOSAL.
- A SURVEYOR REGISTERED IN THE COMMONWEALTH OF MASSACHUSETTS SHALL STAKE OUT THE SYSTEM LOCATION AND SHALL PROVIDE AS-BUILT LOCATION AND ELEVATIONS TO QUINN ENGINEERING, INC. THE INSTALLER SHALL NOT COVER THE SYSTEM OR PIPING UNTIL QUINN ENGINEERING, INC. VERIFIES FROM THE AS-BUILT INFORMATION PROVIDED THAT THE SYSTEM LOCATIONS AND ELEVATIONS ARE SUITABLE.
- ALL PORTIONS OF THE FILL, A AND B SOIL HORIZONS SHALL BE REMOVED FROM WITHIN THE LIMITS OF THE LEACHING FACILITY AND FOR A DISTANCE OF FIVE FEET IN ALL DIRECTIONS THEREFROM.(310 CMR 15.255 (5)). (SEE DEEP HOLE DATA FOR SOIL HORIZON INFORMATION.)
- WHERE A SEWAGE DISPOSAL SYSTEM IS TO BE CONSTRUCTED IN FILL, THE FILL SHALL BE PLACED AND COMPACTED IN 12 INCH LIFTS OR ALLOWED TO SETTLE FOR A MINIMUM OF ONE YEAR. THE FILL MATERIAL MUST CONFORM WITH THE LOCAL BOARD OF HEALTH AND STATE ENVIRONMENTAL CODE TITLE 5 SECTION 15.255.
- ALL INTERIOR PLUMBING SHALL BE CONNECTED TO PROPOSED LEACHING FACILITY WITH THE EXCEPTION OF WATER SOFTENING OR CONDITIONING SYSTEMS, BACKWASH FROM FILTRATION SYSTEMS, OR FLOOR DRAINS.
- THE INSTALLER SHALL SUBMIT TO THE ENGINEER A GRADATION ANALYSIS FOR THE FILL WITHIN THE SYSTEM TO DEMONSTRATE CONFORMANCE WITH 310 CMR 15.255(3) FOR "TITLE 5 FILL" & CONFORMANCE WITH THE MANUFACTURER'S SPECIFICATIONS FOR THE "SYSTEM SAND" PRIOR TO PLACING THE FILL.
- THE SYSTEM INSTALLATION SHALL BE INSPECTED BY THE LOCAL BOARD OF HEALTH AT THE MILESTONES AS DETERMINED BY THE LOCAL BOARD OF HEALTH.
- THE INSTALLER SHALL NOTIFY QUINN ENGINEERING, INC. AT LEAST 24 HOURS IN ADVANCE OF REQUESTING INSPECTIONS. QUINN ENGINEERING, INC. SHALL CONDUCT INSPECTIONS AT THE FOLLOWING MILESTONES:
A. EXCAVATION COMPLETE - PRIOR TO PLACING FILL
B. INSTALLATION OF PIPING
C. FINISH GRADING COMPLETE
D. COMPLETE STABILIZATION
- ALL SYSTEM PIPING SHALL BE MARKED WITH MAGNETIC MARKING TAPE IN ACCORDANCE WITH 310 CMR 15.221 (12).
- THE SYSTEM OWNER SHALL HAVE A SEPTAGE HANDLER, LICENSED BY THE LOCAL BOARD OF HEALTH, PUMP THE SEPTIC TANK IN ACCORDANCE WITH 310 CMR 15.351. ALL COMPONENTS OF THE SYSTEM SHALL BE MAINTAINED IN ACCORDANCE WITH 310 CMR 15.351, THE SYSTEM MANUFACTURER'S REQUIREMENTS OR OTHER APPLICABLE SECTION OF 310 CMR 15.
- MACHINERY WHICH MAY CRUSH OR DISTURB THE PIPE SHALL NOT BE ALLOWED ON THE DISPOSAL AREA.
- THE CONSTRUCTION OF PERMANENT STRUCTURES UPON THE DISPOSAL SYSTEM AND/OR RESERVE AREA IS NOT ALLOWED.

PRESBY LEACHING SYSTEM NOTES:

- INSTALLATION, MAINTENANCE, MONITORING, REPORTING, ETC. SHALL BE IN ACCORDANCE WITH THE ALTERNATIVE USE CERTIFICATION ISSUED BY DEP DATED OCTOBER 2019 AND IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
- MASS DEP AND PRESBY REQUIRE ALL DESIGNERS AND INSTALLERS TO BE CERTIFIED. SYSTEM TO BE INSTALLED IN ACCORDANCE WITH PRODUCT DESIGN AND INSTALLATION MANUAL, STATE AND LOCAL REGULATIONS. FOR PRODUCT INFORMATION OR THE NEAREST DEALER CONTACT PRESBY.
- INSTALLERS OF PRESBY SYSTEMS SHALL PROVIDE OWNER, MANUFACTURER, AND THE LOCAL APPROVING AUTHORITY WITH A COPY OF A COMPLETED "SYSTEM INSTALLATION REPORT FORM" FOR EACH NEW OR REMEDIAL SYSTEM INSTALLED.
- ALL SYSTEMS SHALL BE DESIGNED AND INSTALLED USING DISTRIBUTION BOXES AS INSPECTION PORTS. THE OUTLET OF THE D-BOX SHALL BE AT LEAST 2" ABOVE THE INLET OF THE HIGHEST PRESBY LINE WITH THE CONNECTING PIPE SLOPE NOT LESS THAN 2%.
- THE MINIMUM TOTAL DEPTH OF COVER ON PRESBY LINES IS 10'; 6" OF SYSTEM SAND PLUS 4" OF TOPSOIL. PRESBY PIPES WITH 12" OF STRUCTURAL COVER IS DESIGNED FOR H-10 LOADING, AND PRESBY PIPE WITH 18" OF STRUCTURAL COVER IS DESIGNED FOR H-20 LOADING.
- THE USE OF PRESSURE DISTRIBUTION LINES IN PRESBY WASTEWATER TREATMENT SYSTEMS IS PROHIBITED.
- SYSTEMS INCORPORATING PUMPS TO GAIN ELEVATION MUST USE DIFFERENTIATING VENTING AND VELOCITY REDUCTION TO CONTROL LIQUID FLOW. VELOCITY REDUCTION MAY BE ACCOMPLISHED THROUGH THE USE OF A DISTRIBUTION BOX WITH A TEE OR 90° ELBOW AT THE FORCE MAIN OUTLET.
- EACH PRESBY SYSTEM MUST BE INSTALLED WITH VENTING AT THE END OF EACH D-BOX LINE, SECTION OR SERIAL BED. VENT MANIFOLDS MAY BE USED TO CONNECT MULTIPLE VENTS TO ONE VENT OUTLET.
- EFFLUENT TEE FILTERS WILL NOT BE REQUIRED FOR SEPTIC TANKS USED IN GRAVITY PRESBY SYSTEMS.
- PRESBY SYSTEMS MAY BE INSTALLED IN AN AREA UP TO 40% SMALLER THAN A CONVENTIONAL TITLE 5 BED DESIGNED IN ACCORDANCE WITH 310 CMR 15.252. CURRENTLY MASSACHUSETTS LIMITS ALL SYSTEMS TO A MINIMUM BED SIZE OF 400 SF.
- ALL CONFIGURATIONS OF PRESBY SYSTEM REQUIRE A MINIMUM OF 6" OF SYSTEM SAND SURROUNDING THE CIRCUMFERENCE OF THE PIPE, AND 12" OF SAND BEYOND ALL PIPE ENDS AND THE OUTER PIPE ROWS (FIRST & LAST). ASTM STANDARD: C-33 (CONCRETE SAND) MEETS THE REQUIREMENTS FOR SYSTEM SAND.
- SAND BEDS SLOPING 10% OR LESS REQUIRE THE SYSTEM SAND AREA TO EXTEND A MINIMUM OF 1 FOOT AROUND THE PERIMETER OF THE PRESBY PIPE. (SEE EFFLUENT DISPOSAL AREA CROSS SECTION DETAIL).
- SAND BEDS SLOPING GREATER THAN 10% REQUIRE THE SYSTEM SAND AREA TO EXTEND A MINIMUM OF 1 FOOT AROUND THE PERIMETER OF THE PRESBY PIPE PLUS AN ADDITIONAL 3 FOOT EXTENSION SHALL BE PROVIDED ON THE DOWNSLOPE SIDE. (SEE EFFLUENT DISPOSAL AREA CROSS SECTION DETAIL).
- A COMBINATION DISTRIBUTION IS REQUIRED FOR SYSTEMS WITH GREATER THAN 500GPD. TO PREVENT MOVEMENT, BE SURE DISTRIBUTION BOX IS PLACED ON A STABLE SOIL BASE OR CONCRETE PAD.
- ALL DISTRIBUTION BOXES THAT DIVIDE EFFLUENT FLOW IN PUMP OR GRAVITY SYSTEMS REQUIRE FLOW EQUALIZERS IN THEIR OUTLETS. MOST FLOW EQUALIZERS ARE LIMITED TO A MAXIMUM OF 10 GALLONS/MINUTE IN GRAVITY SYSTEMS AND 20 GALLONS/MINUTE IN PUMPED SYSTEMS.
- DO NOT INSTALL SYSTEM ON FROZEN GROUND OR LEAVE SYSTEM UNCOVERED FOR EXTENDED PERIODS OF TIME.

CERTIFICATION:

I CERTIFY THAT I AM CURRENTLY APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION PURSUANT TO 310 CMR 15.017 TO CONDUCT SOIL EVALUATIONS AND THAT THE ABOVE ANALYSIS HAS BEEN PERFORMED BY ME CONSISTENT WITH THE REQUIRED TRAINING, EXPERTISE, AND THE EXPERIENCE DESCRIBED IN 310 CMR 15.017. I FURTHER CERTIFY THAT THE RESULTS OF MY SOIL EVALUATION, AS INDICATED ON THE ATTACHED SOIL EVALUATION FORM, ARE ACCURATE AND IN ACCORDANCE WITH 310 CMR 15.100 THROUGH 15.017.

KEVIN QUINN, PE

DESIGN CRITERIA:

- RESIDENTIAL LOADING: 4 BEDROOMS
PERC RATE: 11 MPI
SYSTEM SLOPE: 20 %
GARBAGE DISPOSAL / GRINDER: NOT ALLOWED
PIPE ROW LENGTH: 32 FT
ENVIRO-SEPTIC PIPE REQ'D: 220 FT
ENVIRO-SEPTIC PIPE PROVIDED: 224 FT
USE C/L TO C/L SPACING: 2.0 FT
NUMBER OF SECTIONS: 1
NUMBER OF PIPE ROWS: 7 ROWS
MIN. SAND AREA REQ'D: 400 SQ FT
SAND AREA PROVIDED: 510 SQ FT
SYSTEM SAND LENGTH: 34 FT
SYSTEM SAND WIDTH: 15 FT
- LEACHING AREA REQUIRED UNDER TITLE 5:
440 GPD/0.56 GPD/S.F. = 786 S.F.
(PRESBY SYSTEMS ARE REQUIRED TO BE NO LESS THAN 60% OF THE AREA OF A PIPE AND AGGREGATE SYSTEM AND NO LESS THAN 400 S.F.)

510 S.F. PROVIDED > (786 S.F.)/(60%)
510 S.F. PROVIDED > 400 S.F. REQ'D **OK**

- BOTTOM ELEV. OF ENVIRO-SEPTIC PIPE HIGHEST ROW = 1069.67
SYSTEM SAND BEYOND HIGHEST ROW = 1 FT
SYSTEM SAND BEYOND LOWEST ROW = 10 INCHES
MATERIAL COVER OVER ENVIRO-SEPTIC PIPE = 20 %
SYSTEM SLOPE = 2.0 %
CENTER-TO-CENTER SPACING = 2.0 FT
DEPTH TO SEASONAL HIGH GROUNDWATER = 28 INCHES
SEPARATION DISTANCE TO GROUNDWATER = 4 FEET
DROP IN ELEVATION FROM PIPE TO PIPE = 0.40 FT
OUTSIDE-TO-OUTSIDE PIPE LAYOUT WIDTH OF SYSTEM = 13.0 FT
TOTAL SYSTEM SAND WIDTH = 15.0 FT PLUS 3" EXT. 34 FT

DESIGN CALCULATIONS:

LEACHING AREA REQUIRED: (440 GPD)/(0.56 GPD/S.F.) = 786 S.F.
(PRESBY ALLOWS FOR 40% REDUCTION IN LEACHING SIZE = 400 S.F. MIN)

- CRITERIA:
4 BEDROOM HOUSE
PERC RATE = 11 MPI
% SLOPE OF SYSTEM = 20%
CTR. TO CTR. SPACING: MIN. REQ'D = 2.0' PROVIDED = 2.0'
LINEAR FT OF PRESBY PIPE: MIN. REQ'D = 220 LF PROVIDED = 224 LF
MINIMUM SAND BED AREA: MIN. REQ'D = 400 SF PROVIDED = 510 SF
- LENGTH OF EACH ENVIROSEPTIC PIPE LINE (L) = 32'
LAYOUT WIDTH OF PIPE (W) = 13' (OUTSIDE OF #1 TO OUTSIDE OF #7)
DIMENSIONS OF C-33 SYSTEM SAND BED = 34'L x 15'W = 510 SF
(5' OVERDIG WITH TITLE 5 SAND BEYOND C-33 SYSTEM SAND BED IS REQ'D)

RESERVE AREA 32'x25' = 800 SF > 786 SF = OK

DESIGN ELEVATIONS:

TOP OF FOUNDATION	1082.00
INV. @ FDN	1077.85
INV. IN AT PROP. SEPTIC TANK	1077.25
INV. OUT AT PROP. SEPTIC TANK	1077.00
INV. IN AT PROP. D-BOX	1070.59
INV. OUT AT PROP. D-BOX	1070.42

LINE #	EXIST. GRADE	HIGH G.W. ELEV	BOTTOM OF C33 SYSTEM SAND B.O.	BOTTOM OF PIPE	INV. AT BEG./END	TOP OF PIPE	MINIMUM FINISHED GRADE	PROPOSED FINISHED GRADE
1	1067.50	1065.17	1069.17	1069.67	1070.25	1070.87	1071.50	1071.50
2	1067.00	1064.67	1068.77	1069.27	1069.85	1070.27	1071.10	1071.10
3	1066.50	1064.17	1068.27	1068.77	1069.45	1069.87	1070.70	1070.70
4	1066.00	1063.67	1067.77	1068.27	1069.05	1069.47	1070.30	1070.30
5	1065.50	1063.17	1067.27	1067.77	1068.65	1069.07	1069.90	1069.90
6	1065.00	1062.67	1066.77	1067.27	1068.25	1068.67	1069.50	1069.50
7	1064.50	1062.17	1066.27	1066.77	1067.85	1068.27	1069.10	1069.10

NOTE: THE BREAKOUT ELEV. IS EQUAL TO THE BOTTOM OF THE C-33 SAND

DH-1A

SURFACE	Ap 0-4
SL 101R4/2	Bw 4-28
SL 2.5Y6/4	C 28-91

MOTTLES @ 28 10YR6/6
NO WEEP
NO WATER
NO REFUSAL

SOIL TESTING: PT-1

DATE PERFORMED: 7/17/19
BY: KEVIN QUINN, PE
WITNESS: WAYNE CURRAN, RS

DH-1B

SURFACE	Ap 0-6
SL 101R2/2	Bw 6-32
SL 10YR6/8	C 32-92

MOTTLES @ 32 10YR7/2
NO WEEP
NO WATER
NO REFUSAL

PT-1

DATE PERFORMED: 7/17/19
BY: KEVIN QUINN, PE
WITNESS: WAYNE CURRAN, RS
PERC RATE: 11 MPI

DH-2A

SURFACE	Ap 0-4
SL 101R4/2	Bw 4-31
SL 10YR6/6	C 31-87

MOTTLES @ 31 10YR6/8
NO WEEP
NO WATER
NO REFUSAL

PT-2

DATE PERFORMED: 7/17/19
BY: KEVIN QUINN, PE
WITNESS: WAYNE CURRAN, RS
PERC RATE: 8 MPI

DH-2B

SURFACE	Ap 0-4
SL 101R4/2	Bw 4-60
SL 10YR5/6	C 60-96

MOTTLES @ 39 2.5Y7/4
NO WEEP
NO WATER
NO REFUSAL

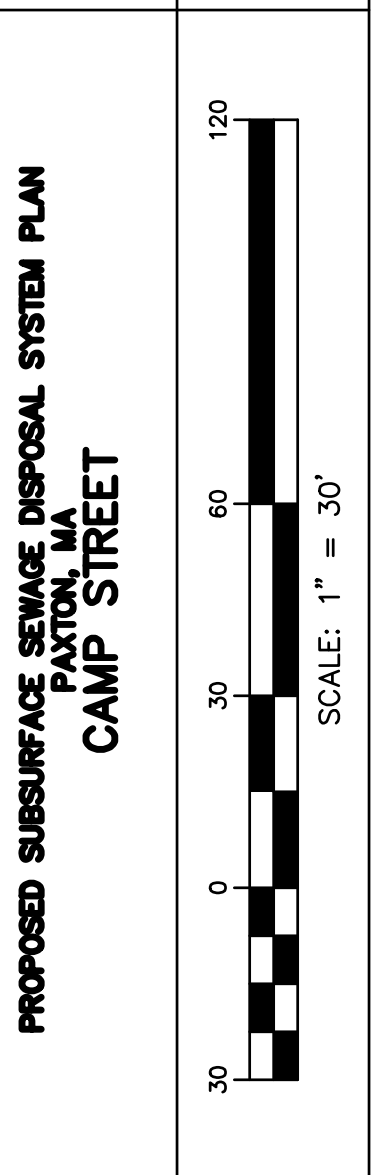


DATE	REVISION	NO.

KEVIN J. QUINN CIVIL #33922

OWNER: SAGEGH + FARRELL
3 CAMP STREET
PAXTON, MA 01612

APPLICANT: MADDOUX
CAMP STREET
PAXTON, MA 01612



PROPOSED SUBSURFACE SEWAGE DISPOSAL SYSTEM PLAN
PAXTON, MA
CAMP STREET

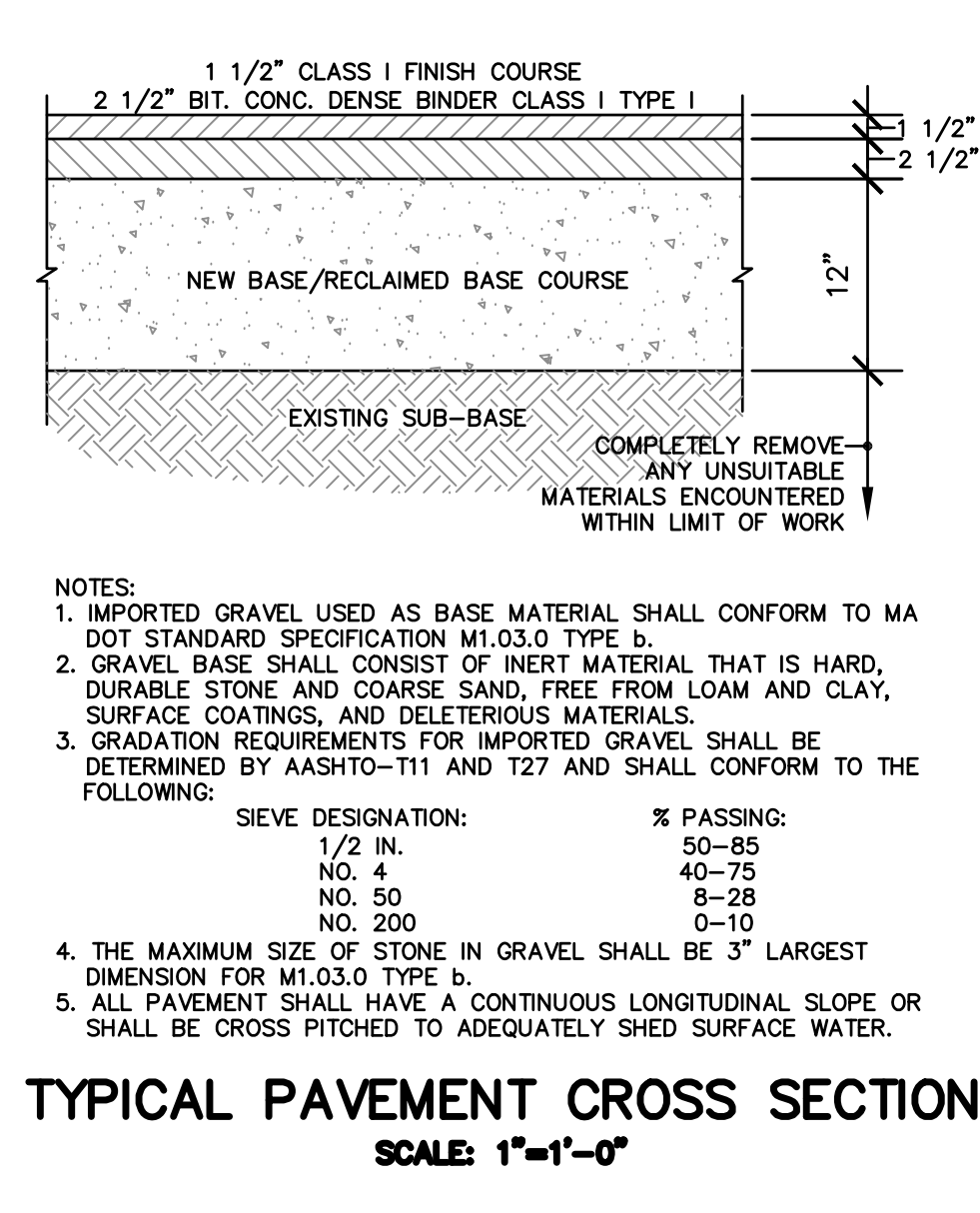
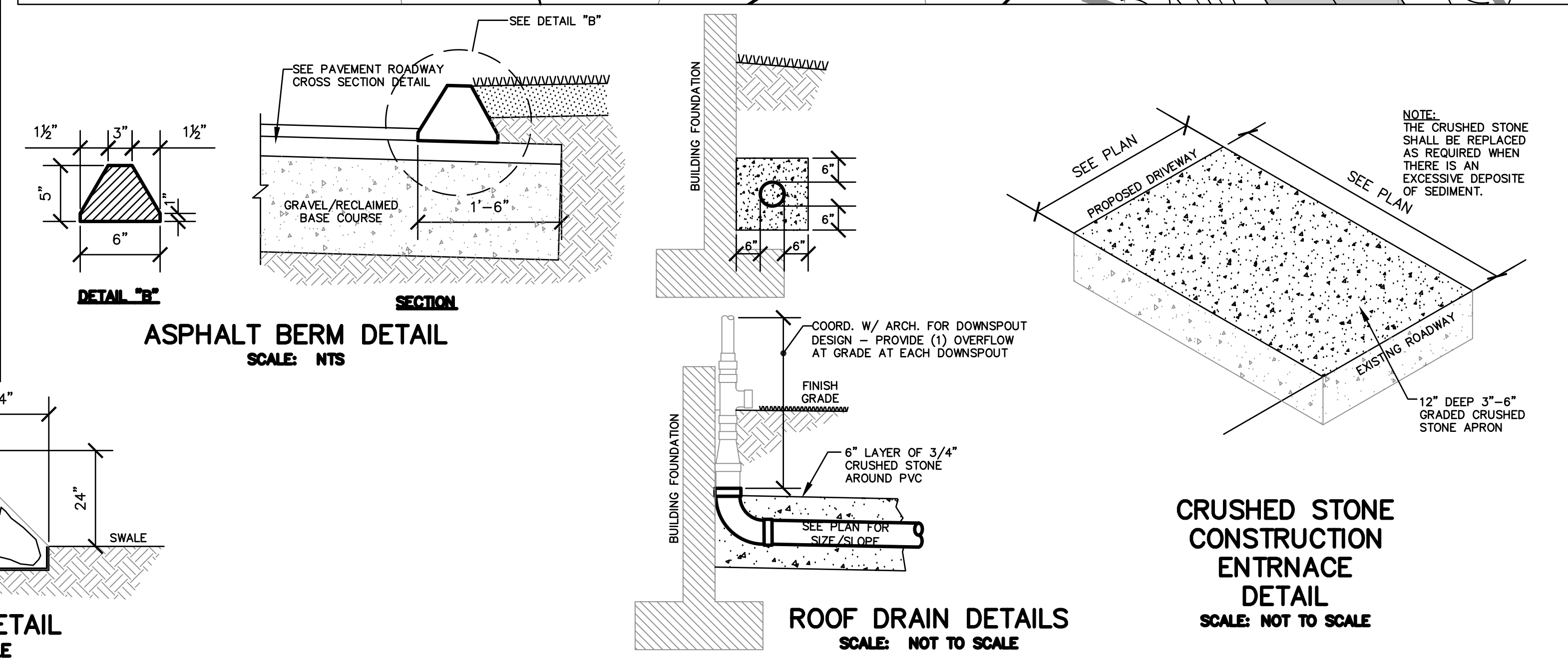
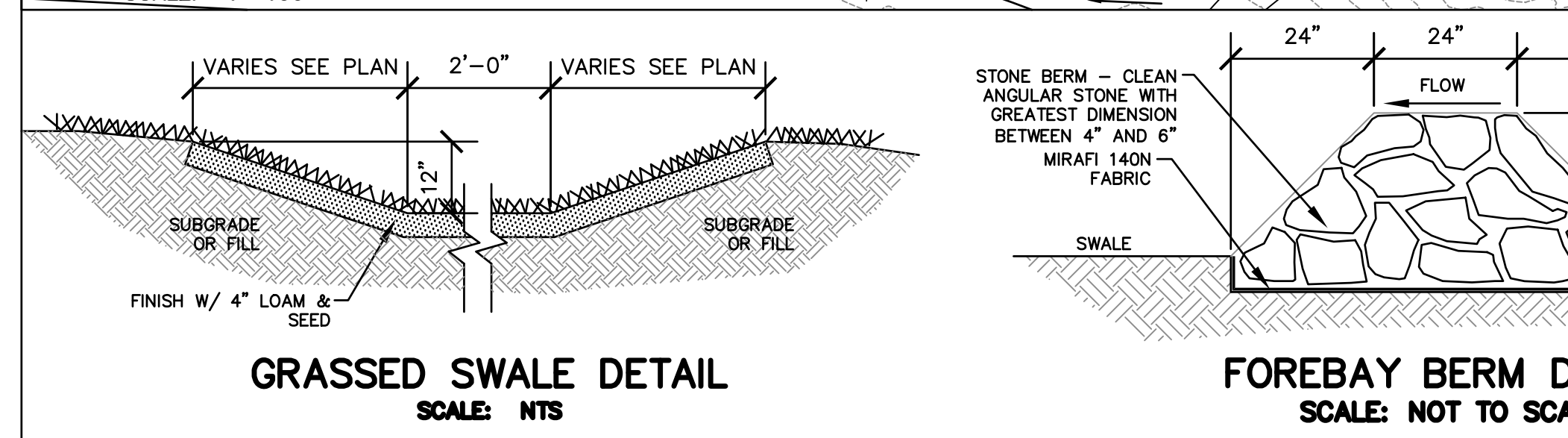
QUINN ENGINEERING, INC.
P.O. Box 107
Paxton, Massachusetts 01612
(508)753-7999 Fax:(508)795-0939

DATE: DECEMBER 23, 2021

PROPOSED SUBSURFACE SEWAGE DISPOSAL SYSTEM PLAN

CAMP STREET

SHEET 2 OF 4



QUINN ENGINEERING, INC. P.O. Box 107 Paxton, Massachusetts 01612 (508)753-7999 Fax:(508)795-0939	PROPOSED SUBSURFACE SEWAGE DISPOSAL SYSTEM PLAN PAXTON, MA CAMP STREET		OWNER: J. QUINN + FARRELL 31 CAMP STREET PAXTON, MA 01612	APPLICANT: CARELL MADDOUX CAMP STREET PAXTON, MA 01612		NO.	REVISION	DATE
	DATE: DECEMBER 23, 2021							
CONSERVATION AND STORMWATER PLAN		CAMP STREET		SHEET 3 OF 4				

1. ALL REQUIRED PERMITS SHALL BE SECURED PRIOR TO COMMENCING WORK. PRIOR TO COMMENCING ANY WORK ONSITE, CONTRACTOR SHALL NOTIFY THE TOWN OF PAXTON PLANNING AND ENGINEERING DEPARTMENTS, BUILDING DEPARTMENT, CONSERVATION COMMISSION, DEPARTMENT OF PUBLIC WORKS, SCHOOL DEPARTMENT, POLICE AND FIRE DEPARTMENTS.

2. ALL WORK SHALL CONFORM TO THE TOWN OF PAXTON REGULATIONS, ZONING BY-LAW, CONSERVATION COMMISSION LOCAL BY-LAW OR OTHER REGULATIONS AS APPLICABLE. ALL REQUIREMENTS OF THE TOWN OF PAXTON ARE HEREBY MADE CONDITIONS OF THIS WORK.

3. CONTRACTOR SHALL CONTROL AIRBORNE DUST WITH USE OF SPRAYED WATER AS REQUIRED TO MINIMIZE IMPACT ON NEIGHBORING PROPERTIES. USE OF CALCIUM CHLORIDE OR OTHER CHEMICALS IS NOT PERMITTED.

4. CONTRACTOR SHALL RETAIN A LICENSED SURVEYOR TO LAY OUT THE SITE CONSTRUCTION, WHO CERTIFY THAT ALL LOCATIONS ARE AS PER PLAN.

5. SEVENTY TWO HOURS PRIOR TO COMMENCING ANY EXCAVATION, THE CONTRACTOR SHALL NOTIFY DIG SAFE AT 811. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF NEW UTILITIES WITH THE VICINITY OF EXISTING UTILITIES (UNDERGROUND AND OVERHEAD) WITH THE APPROPRIATE UTILITY.

6. INTERIM AND/OR PERMANENT SOIL STABILIZATION MEASURE SHALL BE INSTITUTED AS SOON AS PRACTICABLE, BUT NO MORE THAN 14 DAYS AFTER CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED ON THAT PORTION OF THE SITE.

7. REMOVE ALL TOPSOIL, SUBSOIL, PRIOR TO PLACING ANY FILL ONSITE. WHERE GRAVEL IS CALLED FOR ONSITE, CONTRACTOR MAY USE ONSITE ONSITE MATERIALS, IF APPROVED BY OWNER.

8. CONTRACTOR SHALL MAINTAIN COMPLETE RECORDS OF AS-BUILT LOCATIONS OF ALL UNDERGROUND AND ABOVE GROUND FACILITIES. PROVIDE THE OWNER WITH COMPLETE AS-BUILT PLANS UPON COMPLETION OF PROJECT, INCLUDING UTILITIES NOT INDICATED ON THIS PLAN.

9. CONSTRUCTION SEQUENCE:

ALL WORK OF THIS PROJECT SHALL PROCEED ACCORDING TO THE FOLLOWING PROPOSED SEQUENCE:

- 1.) EROSION CONTROL PROVISIONS IN PLACE
- 2.) CLEARING/GRUBBING
- 3.) CONSTRUCTION OF STORMWATER FACILITIES AND THEN SITE DEVELOPMENT CONSTRUCTION.

10. CONTRACTOR SHALL PLACE A MINIMUM OF 6" (COMPACTED DEPTH) OF GOOD QUALITY LOAM AND GRASS SEED IN ALL AREAS NOT SUBJECT TO RESTORATION BY ANY OTHER MEANS.

11. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE HIS WORK WITH MUNICIPALITY TO LIMIT THE POTENTIAL DISRUPTIONS TO THE GENERAL PUBLIC. SHALL EMPLOY DUE CARE AND CAUTION TO PROTECT THE PUBLIC FROM DANGERS ASSOCIATED WITH THE OPERATION. SHALL INSTALL TEMPORARY FENCES, BARRICADES AND SIGNAGE TO ENSURE THAT NO PERSONS ENTER THE WORK AREA. SHALL COORDINATE POLICE DETAILS AS REQUIRED FOR WORK TO BE CONDUCTED IN THE STREET. SHALL EMPLOY DUE CARE WHEN WORKING AROUND PEDESTRIAN AND VEHICLE TRAFFIC.

12. NO EXCAVATION SHALL TAKE PLACE ONSITE UNTIL ALL SEDIMENTATION CONTROLS (STRAW WATTLES, TEMP BASINS, ETC.) ARE FULLY INSTALLED AS PER PLAN. FOLLOWING COMPLETION OF GRADING IN ANY AREA CONTRACTOR SHALL ACT TO PLACE PERMANENT SURFACE FINISH OR TO STABILIZE SURFACE SOILS AGAINST EROSION. LOAM AND SEED SHALL BE PLACED IMMEDIATELY UPON FINAL GRADING.

13. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT THE PROPOSED CONSTRUCTION ACTIVITIES DO NOT DAMAGE OR UNDERMINE EXISTING SLOPES, BUILDINGS, WALLS, STRUCTURES, ETC. IN THE AREA AROUND THE CONSTRUCTION. REPAIR OF EXISTING SLOPES, BUILDINGS, WALLS, STRUCTURES, ETC. THAT ARE DAMAGED OR UNDERMINED BY THE CONTRACTORS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

14. EXISTING UTILITY LOCATIONS ARE APPROXIMATE ARE TO BE FIELD VERIFIED. QUINN ENGINEERING, INC. DOES NOT WARRANT THAT ALL EXISTING UTILITIES HAVE BEEN INDICATED. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE EXISTING UTILITY LOCATIONS AND ENSURING THAT THE PROPOSED WORK DOES NOT CONFLICT WITH THE EXISTING UTILITIES NOT SHOWN.

15. SEWERS SHOULD BE LAID AT A MINIMUM OF 10 FEET, HORIZONTALLY, FROM ANY EXISTING OR PROPOSED WATER MAIN. SHOULD LOCATIONS PREVENT LATERAL SEPARATION OF 10 FEET TO A WATER MAIN, THE WATER MAIN SHOULD BE LAID IN A SEPARATE TRENCH AND THE ELEVATION OF THE CROWN OF THE SEWER PLACED AT LEAST 18 INCHES BELOW THE INVERT OF THE WATER MAIN. WHENEVER SEWERS MUST CROSS UNDER WATER MAINS, THE SEWER SHOULD BE LAID AT SUCH AN ELEVATION THAT THE CROWN OF THE SEWER IS AT LEAST 18 INCHES BELOW THE INVERT OF THE WATER MAIN. WHEN THE ELEVATION OF THE SEWER CAN NOT BE VARIED TO MEET THIS REQUIREMENT, THE WATER MAIN SHOULD BE RELOCATED TO PROVIDE THIS SEPARATION OR CONSTRUCTED WITH MECHANICAL-JOINT PIPE FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE SEWER. ONE FULL LENGTH OF WATER MAIN SHOULD BE CENTERED OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. WHEN IT IS IMPOSSIBLE TO OBTAIN HORIZONTAL OR VERTICAL SEPARATION AS STIPULATED ABOVE, BOTH SEWER AND WATER MAIN SHOULD BE ENCASED IN CONCRETE FOR 10 FEET EITHER SIDE OF THE CROSSING.

16. THE GROUND IMMEDIATELY ADJACENT TO FOUNDATIONS SHALL BE SLOPED AWAY FROM THE BUILDING, IN ACCORDANCE WITH 780 CMR 181.57, AT A SLOPE OF NOT LESS THAN 1:12 FOR A MINIMUM DISTANCE OF 10 FEET MEASURED PERPENDICULAR TO THE FACE OF THE WALL. ANY OTHER APPROVED ALTERNATE METHODS OF DIVERTING WATER AWAY FROM THE FOUNDATION MAY BE ACCEPTABLE.

17. ALL SDR35 PVC SEWER PIPE & FITTINGS SHALL CONFORM TO ASTM D3034 OR ASTM F679.

18. ALL SCH. 40 & SCH. 80 PVC PIPE & FITTINGS SHALL CONFORM TO ASTM D178M D3915, -4, ASTM D 1785, ASTM D3915, ASTM D4396

19. THE SITE IS NOT LOCATED WITHIN A TOWN OF PAXTON WATERSHED RESOURCE PROTECTION DISTRICT.

20. SUITABLE FILL SHALL CONSIST OF MATERIAL SOIL FREE OF ORGANIC MATERIALS, LOAM, AND ANY DELETERIOUS MATERIALS. SUITABLE COMFORMABLE FILL SHALL NOT CONTAIN STONES LARGER THAN 10" IN ANY DIMENSION, AND SHALL HAVE LESS THAN 75% PASSING THE NO. 4 SIEVE AND A MAXIMUM OF 20% PASSING THE NO. 200 SIEVE. SUITABLE FILL SHALL NOT CONTAIN ANY BUILDING BRICK, GRANITE, OR CONCRETE BLOCK, ROOFING MATERIALS, OR OTHER CONSTRUCTION REFUSE. AT THE TIME OF PLACEMENT SUITABLE FILL SHALL NOT CONTAIN FROST, SNOW, OR ICE AND SHALL NOT CONTAIN WATER GREATER THAN THE OPTIMAL MOISTURE CONTENT.

21. THE EROSION CONTROL LINE SHALL BE STAKED BY A MA REGISTERED SURVEYOR PRIOR TO THE INSTALLATION OF EROSION CONTROLS. THE EROSION CONTROL LINE SHALL SERVE AS THE LIMIT OF WORK.

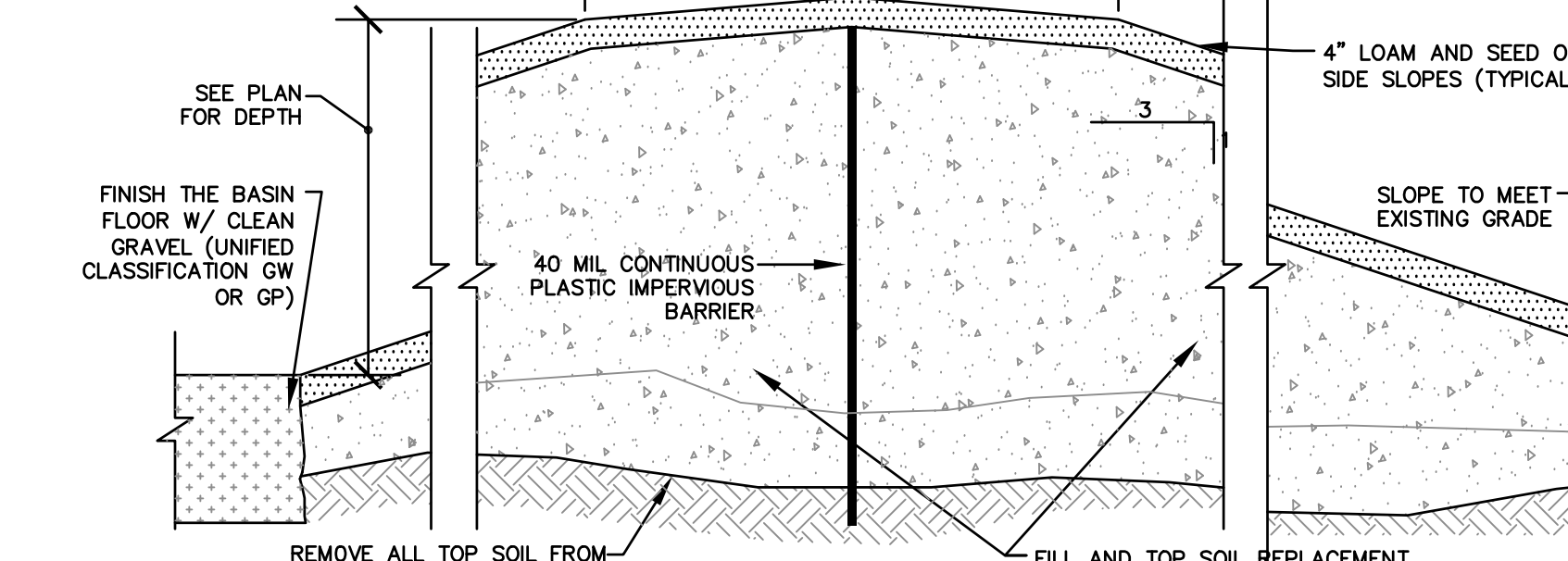
22. SITE OPERATIONS SHALL NOT DIRECT HAZARDOUS MATERIALS IN QUANTITIES SUBSTANTIALLY GREATER THAN THOSE ASSOCIATE WITH NORMAL HOUSEHOLD USE TO THE SOIL ABSORPTION SYSTEM.

1. THE IMPERVIOUS BARRIER SHALL EXTEND FROM THE TOP OF EMBANKMENT TO A DEPTH 24" BELOW THE BASIN FLOOR OR 12" INTO NATIVE SOIL (WHICHEVER IS DEEPER).

2. THE IMPERVIOUS BARRIER JOINTS SHALL BE OVERLAPPED AND FASTENED TO ENSURE WATERTIGHTNESS OF THE BARRIER.

10'-0"

CROWN ON TOP OF BERM



BOX-PENAGONAL COVER NUT

ROADWAY

SIDEWALK

STREET BOX SET 12" BELOW FINISHED GRADE UNLESS CONCRETE BASE EXISTS, IN WHICH CASE THE BOX SHALL BE SET TO FINISHED GRADE OF THE CONCRETE. BOX SUPPLIED BY CITY.

5'-0" MIN. COVER

WATER MAIN

COPPER TYPE K TUBING. EXISTING CORP. MUST BE DRILLED AND CLEANED WHEN A SERVICE IS RENEWED. IF REQUIRED IT SHALL BE CHANGED AT THE DISCRETION OF THE FIELD INSPECTOR. ALL TAPS SHALL BE DIRECT, NO SADDLES WILL BE ACCEPTED.

SCALE: NOT TO SCALE

1. GOOD HOUSEKEEPING PRACTICES SHALL BE EMPLOYED IN MAINTENANCE OF THE STORMWATER SYSTEM AREAS AND ON SITE AREAS. THE MINIMUM HOUSEKEEPING PRACTICES ARE IDENTIFIED IN THE STORMWATER COLLECTION AND TREATMENT SYSTEM OPERATION AND MAINTENANCE PLAN.
2. STORAGE OF MATERIALS AND WASTE PRODUCTS SHALL BE STORED IN A MANNER THAT MINIMIZES EXPOSURE TO STORMWATER, IE USE OF TARPULINS, INSIDE STORAGE, ETC. MATERIALS AND WASTE SHALL BE MAINTAINED IN AN ORDERLY MANNER SUCH THAT WASTE WILL BE COLLECTED IMMEDIATELY UPON SPILLS OR DISPERSION.
3. VEHICLE WASHING SHOULD OCCUR IN ACCORDANCE WITH THE "ILLICIT AND NON STORMWATER DISCHARGES" PORTION OF THE STORMWATER POLLUTION PREVENTION PLAN NOTES.
4. LONG TERM MAINTENANCE OF THE STORMWATER COLLECTION AND TREATMENT SYSTEM SHALL FOLLOW THE OPERATION AND MAINTENANCE REQUIREMENTS ON THESE PLANS AT A MINIMUM.
5. PARTIES RESPONSIBLE FOR MAINTENANCE OF THE STORMWATER SYSTEM SHOULD BE FAMILIAR WITH "CLEAN UP OF SITES AND SPILLS" INFORMATION AVAILABLE ON THE MA DEP WEB SITE (CURRENTLY AVAILABLE AT <http://www.mass.gov/dep/cleanup/laws/spillingmg.doc>) AND SHOULD BE PREPARED TO ACT ACCORDINGLY IN THE EVENT OF A SPILL.
6. THE MINIMUM PRACTICES EMPLOYED IN OPERATION AND MAINTENANCE OF THE ON SITE AREAS AND STORMWATER SYSTEM COMPONENTS ARE IDENTIFIED IN THE STORMWATER COLLECTION AND TREATMENT SYSTEM OPERATION AND MAINTENANCE PLAN.
7. THE MASSACHUSETTS BUREAU OF FARM PRODUCTS & PLANT INDUSTRIES FACT SHEET FOR "PROTECTING WATER RESOURCES FROM FERTILIZER" RECOMMENDS THAT:
UNUSED FERTILIZER SHOULD BE REMOVED FROM THE SPREADER AND RETURNED TO THE ORIGINAL BAG OR CONTAINER FOR FUTURE USE. FERTILIZER IN A DRY PLACE AWAY FROM ANY WATER SOURCE.
IF STORED FERTILIZER GETS WET YOU NOT ONLY LOSE NUTRIENT VALUE, THERE IS POTENTIAL FOR NITRATES TO LEACH INTO WATER SOURCES.
THE HANDLING OF HERBICIDES AND PESTICIDES SHOULD BE CONDUCTED IN ACCORDANCE WITH GUIDELINES AVAILABLE ON THE MA DEP WEB SITE (CURRENTLY AVAILABLE AT <http://www.mass.gov/dep/recycle/hazardous/pesticide.htm>)
8. MANAGEMENT OF PET WASTE SHOULD BE CONDUCTED IN ACCORDANCE WITH THE GUIDELINES AVAILABLE ON THE MA DEP WEB SITE (CURRENTLY AVAILABLE AT <http://www.mass.gov/dep/water/resources/petwaste.pdf>)
9. OPER / MAINTENANCE AND MAINTENANCE OF ANY ON SITE SEPTIC SYSTEM SHOULD BE CONDUCTED IN ACCORDANCE 310 OUR 15.00.
10. SOLID WASTE SHOULD BE MANAGED IN ACCORDANCE WITH LOCAL, STATE, FEDERAL REGULATIONS AND GUIDELINES.
11. SNOW DISPOSAL SHALL BE CONDUCTED IN ACCORDANCE WITH THE MA DEP GUIDELINE BRP001-01 (CURRENTLY AVAILABLE AT <http://www.mass.gov/dep/water/laws/snowdisp.htm>)
12. USE OF SALT ON ROADS AND WALKS IS TO BE MINIMIZED. STORAGE OF SNOW SALT AND OTHER DE-ICING MATERIALS SHALL BE IN ACCORDANCE WITH MA DEP POLICY DW5937-1 (CURRENTLY AVAILABLE AT <http://www.mass.gov/dep/water/laws/dw5937-1.htm>)
13. THE FOLLOWING PAVEMENT SWEEPING SCHEDULE IS RECOMMENDED WITH SWEEPING SCHEDULED PRIMARILY IN THE SPRING AND FALL:
- QUARTERLY AVERAGE USING A HIGH EFFICIENCY VACUUM SWEEPER
- QUARTERLY AVERAGE USING A REGENERATIVE AIR SWEEPER
- MONTHLY AVERAGE USING A MECHANICAL SWEEPER (ROTARY BROOM)
SWEEPINGS SHOULD BE HANDLED IN ACCORDANCE WITH MA DEP POLICY BRP-94-092.
14. ILICIT DISCHARGES TO THE STORMWATER SYSTEM ARE PROHIBITED.
15. FOR LAND USES NEAR CRITICAL AREAS OR FROM LAND USED WITH HIGHER POTENTIAL POLLUTANT LOADS THE STORMWATER SYSTEM SHOULD BE PROVIDED WITH A SHUTDOWN DEVICE.
16. PARTIES RESPONSIBLE FOR MAINTENANCE OF THE STORMWATER SYSTEM SHOULD BECOME FAMILIAR WITH THE REQUIREMENTS OF:
- THE STORMWATER POLLUTION PREVENTION PLAN AND NOTES
- THE STORMWATER COLLECTION AND TREATMENT SYSTEM OPERATION AND MAINTENANCE PLAN
- LONG TERM POLLUTION PREVENTION PLAN MEASURES
16. IN THE CASE OF AN EMERGENCY DIAL 911 OR CONTACT:
MASS DEP CENTRAL REGION
ATTN: NEW BOND STREET
WORCESTER, MA 01606
(508) 792-7650

1. WETLAND DELINEATION BY ECOTEC, INC., OF WORCESTER MA.
2. EROSION CONTROLS INCLUDING TEMPORARY BASINS SHALL BE IMPLEMENTED AND INSPECTED BY A TOWN REPRESENTATIVE PRIOR TO STARTING CONSTRUCTION.
3. APPROVAL FROM THE PAXTON CONSERVATION COMMISSION IS REQUIRED FOR THIS PROJECT. WETLAND AREAS IDENTIFIED IN THIS PLAN SET QUALIFY AS WETLANDS UNDER 310 CMR 10.00.

6. ALL EROSION CONTROL DEVICES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND SHALL NOT BE REMOVED UNTIL ALL DISTURBED SURFACES HAVE BEEN FULLY STABILIZED WITH VEGETATION.

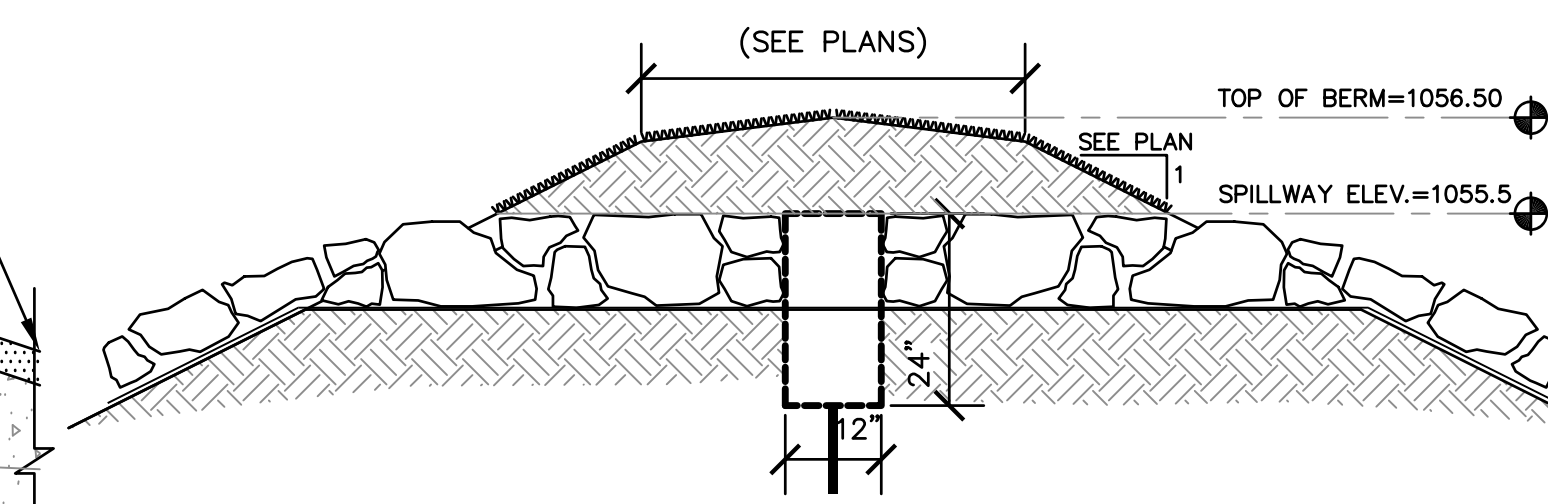
7. EXISTING ROADS CONNECTED TO THE PROJECT SITE WILL BE KEPT CLEAN OF SILT AND DEBRIS AT ALL TIMES.

8. THE SITE DOES NOT LIE WITHIN A FLOOD HAZARD ZONE AS INDICATED ON NFIP FIRM MAPS.

9. THE SITE DOES LIE WITHIN A ZONE A WATER SUPPLY PROTECTION AREA AS MAPPED ON THE MASS GIS WEBSITE.

10. THE SITE DOES NOT LIE WITHIN AN ESTIMATED HABITAT OR RARE WILDLIFE OR PRIORITY HABITAT OF RARE SPECIES.

10. THE SITE DOES NOT LIE WITHIN AN ESTIMATED HABITAT OR RARE WILDLIFE OR PRIORITY HABITAT OF RARE SPECIES.



6"Ø AND 12"Ø RIP RAP-PLACE IN A CLOSE PATTERN

MIRAFI 600X FABRIC

SEE PLANS

12"

PLACE 4" LOAM AND GRASS SEED ON BASIN SLOPES

SPILLWAY ELEV. 100.00

FILL SPILLWAY WITH CLEAN SAND

14"Wx2'Hx1'D CONCRETE WIER

ELEVATION

SECTION WALL

GROUT TO WATER PROOF

SCALE: 1/2"=1'-0"

1. CONTROLS TO REDUCE POLLUTANTS:

- A.) THE FOLLOWING IS A BRIEF DESCRIPTION OF EACH BMP IMPLEMENTED TO CONTROL POLLUTANTS IN STORM WATER DISCHARGES.
 - 1.) EROSION CONTROLS: STRAW WATTLERS PROVIDE MEASURES OF CONTROLLING EROSION AND SEDIMENTATION AND SHALL BE IMPLEMENTED BY THE CONTRACTOR WHERE NEEDED TO PREVENT SEDIMENT FROM LEAVING THE WORK SITE.
 - 2.) TEMPORARY DIKES AND TEMPORARY DRAINAGE SWALES, INTERCEPTOR DIKES AND/OR SWALES SHALL BE EMPLOYED BY THE SITE CONTRACTOR TO DIRECT STORMWATER RUNOFF FROM DISTURBED AREAS TO AREAS WHERE DISCHARGE IS ACCEPTABLE.
 - 3.) TEMPORARY CONSTRUCTION ENTRANCES OF CRUSHED STONE SHALL BE IMPLEMENTED BY THE CONTRACTOR WHEN NEEDED TO PREVENT SEDIMENT FROM TRACKING OFF-SITE AND INTO EXISTING ROADWAYS.
- B.) DISTURBED AREAS NOT SUBJECT TO RESTORATION BY OTHER MEANS SHALL BE STABILIZED UPON FINISH GRADING WITH 4" OF LOAM AND GRASS SEED. AREAS SLOPED AT GREATER THAN 3:1 SHALL BE STABILIZED WITH GEOTEXTILE FABRIC.
- C.) THE FOLLOWING RECORDS SHOULD BE MAINTAINED BY THE OPERATOR AS PART OF THE POLLUTION PREVENTION PLAN.
 1. DATES WHEN MAJOR GRADING ACTIVITIES OCCUR.
 2. DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE.
 3. DATES WHEN STABILIZATION MEASURES ARE INITIATED.
- D.) HAY BALES, SILT FENCE, STONE CONSTRUCTION ENTRANCES, EARTH DIKES, TEMPORARY DRAINAGE SWALES, INTERCEPTOR DIKES AND SWALES, AND OTHER STRUCTURAL PRACTICES SHALL BE EMPLOYED BY THE SITE CONTRACTOR TO DIRECT STORMWATER RUNOFF FROM DISTURBED AREAS TO AREAS WHERE DISCHARGE IS ACCEPTABLE. THE APPROPRIATE LOCATION AND INSTALLATION TIMING SHALL BE DETERMINED BY THE SITE CONTRACTOR.
- E.) THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO ANY WETLAND AREAS, CATCH BASIN, STORMWATER BASIN, OR CATCH BASIN PROTECTORS SHALL BE PROHIBITED.
- F.) THE CONTRACTOR SHALL MINIMIZE VEHICLE TRACKED SEDIMENT ON THE SURROUNDING ROADWAYS. AIRBORNE DUST SHALL BE CONTROLLED WITH WATER.
- G.) CONSTRUCTION MATERIALS AND CONSTRUCTION WASTE MATERIALS ASSOCIATED WITH THE PROPOSED DEVELOPMENT SHALL BE STORED IN A MANNER THAT MINIMIZES EXPOSURE TO STORMWATER, IE USE OF TARPULAINS, INSIDE STORAGE, ETC. DIRT AND WASTE SHALL BE MAINTAINED IN AN ORDERLY MANNER AND SHALL BE COLLECTED IMMEDIATELY UPON SPILLS OR DISPERSION.
- H.) DURING CONSTRUCTION, POLLUTANTS FROM SOURCES OTHER THAN THE CONSTRUCTION ACTIVITIES ARE NOT EXPECTED.

2. ILLIOT AND NON STORMWATER DISCHARGES:

A.) THE DEP IN MASSACHUSETTS STORMWATER HANDBOOK, AN ILLIOT DISCHARGE DOES NOT INCLUDE DISCHARGES FROM THE FOLLOWING ACTIVITIES OR FACILITIES: FIRE FIGHTING, WATER LINE FLUSHING, LANDSCAPE IRRIGATION, UNCONTAMINATED GROUNDWATER, POTABLE WATER SOURCES, FOUNDATION DRAINS, AIR CONDITIONING CONDENSATION, FOOTING DRAINS, INDIVIDUAL RESIDENT CAR WASHING, FLOWS FROM RIPARIAN HABITATS AND WETLANDS, DECHLORINATED WATER FROM SWIMMING POOLS, WATER FROM STREET CLEANING AND WATER USE TO MAINTAIN BUILDINGS AND HOUSEHOLD APPLIANCES.

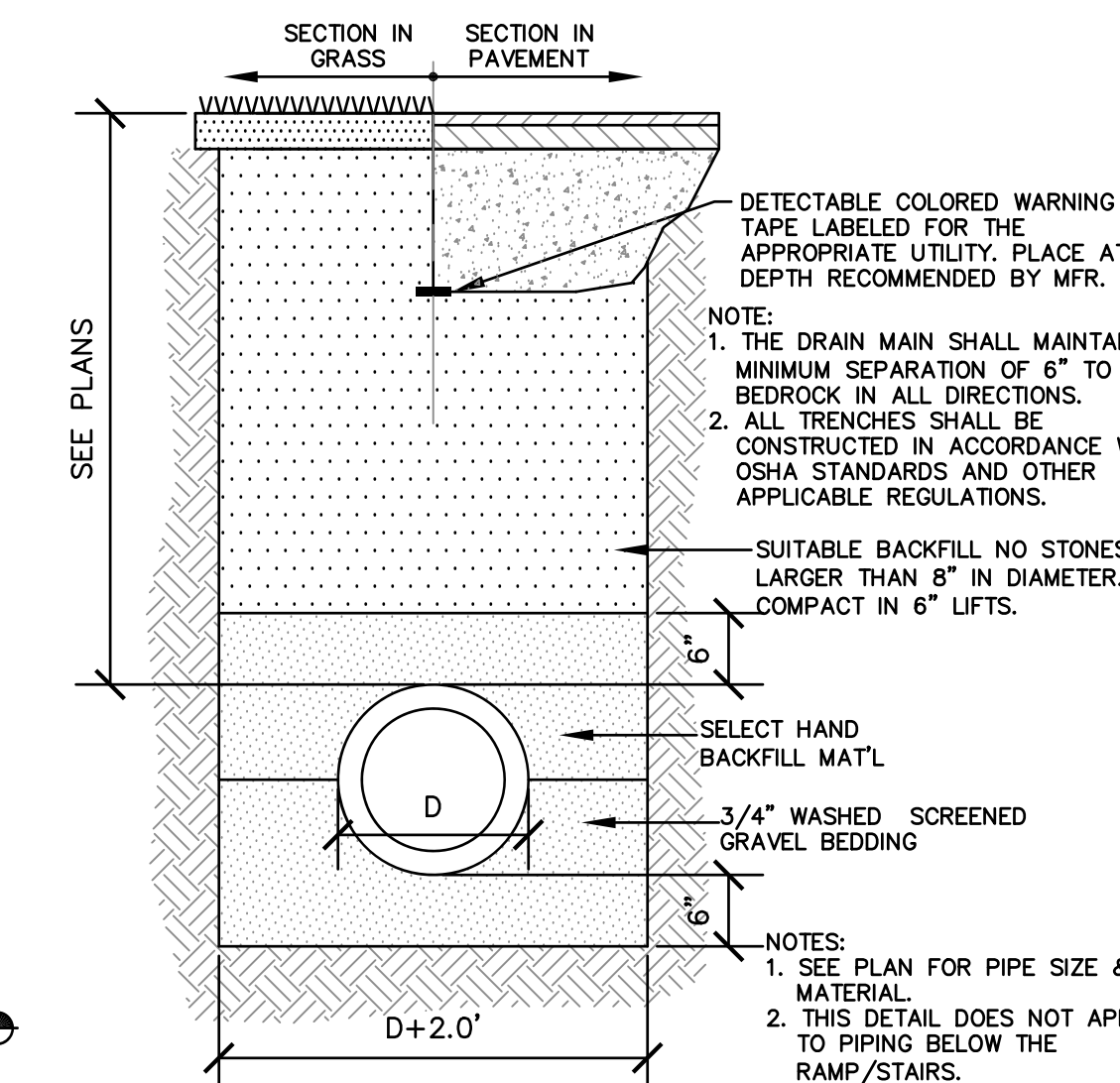
B.) ILLIOT DISCHARGE TO THE STORMWATER MANAGEMENT SYSTEM SHALL BE PROHIBITED. ILLIOT DISCHARGES INCLUDE WASTEWATER DISCHARGES AND DISCHARGES OF STORMWATER CONTAMINATED BY CONTACT WITH PROCESS WASTES, RAW MATERIALS, TOXIC POLLUTANTS, HAZARDOUS SUBSTANCES, OIL, OR GREASE.

3. MAINTENANCE AND CONTROLS:

- A.) DURING CONSTRUCTION, ALL SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN EFFECTIVE OPERATING CONDITION. IN THE EVENT THAT THE MEASURES ARE NOT WORKING PROPERLY OR IF ADDITIONAL MEASURES ARE REQUIRED, MAINTENANCE AND ADJUSTMENTS SHALL BE MADE PRIOR TO THE NEXT RAIN STORM.
- B.) DURING CONSTRUCTION, IN THE EVENT THAT MAINTENANCE OR IMPLEMENTATION CANNOT BE MADE PRIOR TO THE NEXT RAIN STORM, THE SITUATION SHALL BE DOCUMENTED BY THE OPERATOR AND ALTERNATIVE BMP'S IMPLEMENTED AS SOON AS POSSIBLE.
- C.) DURING CONSTRUCTION, CATCH BASINS SUMPS AND SEDIMENT TRAPS SHALL BE CLEANED OF SEDIMENT WHEN THE CAPACITY HAS BEEN REACHED BY 50%.

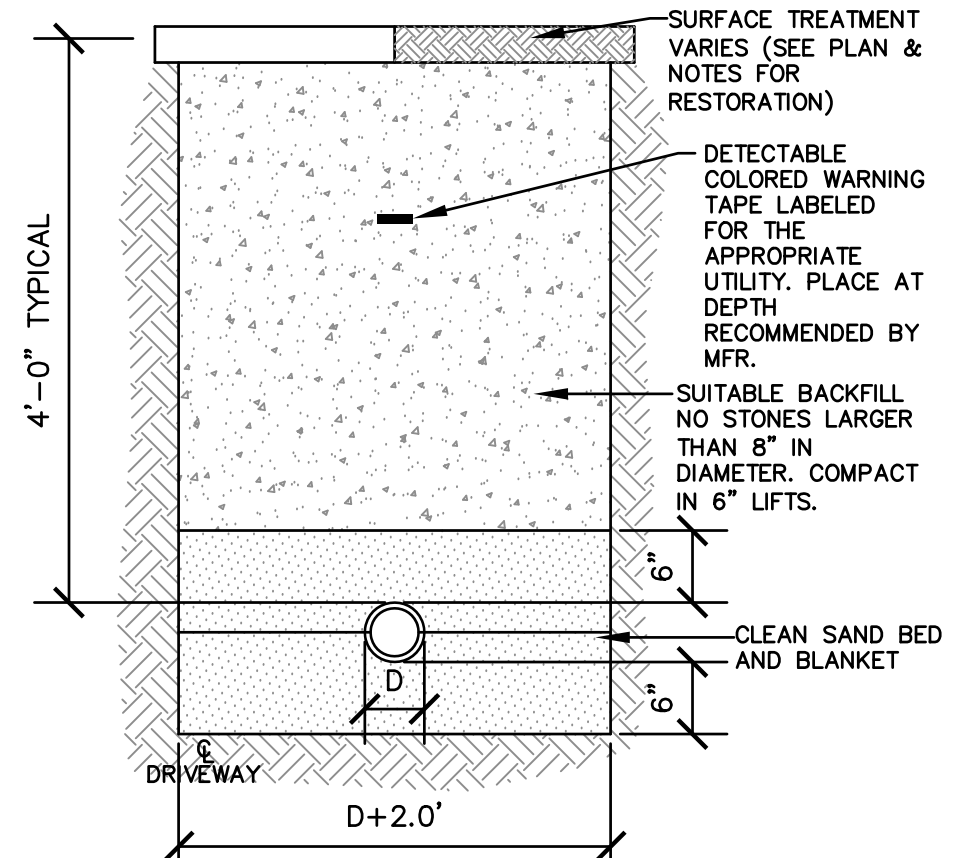
4. MANAGEMENT PRACTICES:

- A.) ALL CONTROL MEASURES SHALL BE PROPERLY INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND GOOD PRACTICES. INAPPROPRIATE OR INCORRECT USE OF THE CONTROL SHALL BE MODIFIED AS SOON AS FEASIBLE.
- B.) OFF-SITE ACCUMULATION OF SEDIMENT MUST BE REMOVED IMMEDIATELY.
- C.) LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORMWATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
- D.) STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS POSSIBLE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARY OR PERMANENTLY CEASED. IN THE CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED, ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED PRIOR TO AND DURING WINTER CONDITIONS.
- E.) A VEGETATED BUFFER SHALL BE MAINTAINED WHEREVER POSSIBLE BETWEEN THE WORK AREA AND DOWNSTREAM RESOURCE AREAS AND PROPERTY BOUNDARY.
- F.) PROVIDE VELOCITY DISSIPATORS OR RIP RAP AT ALL TEMPORARY AND PERMANENT STORMWATER POINT DISCHARGES.

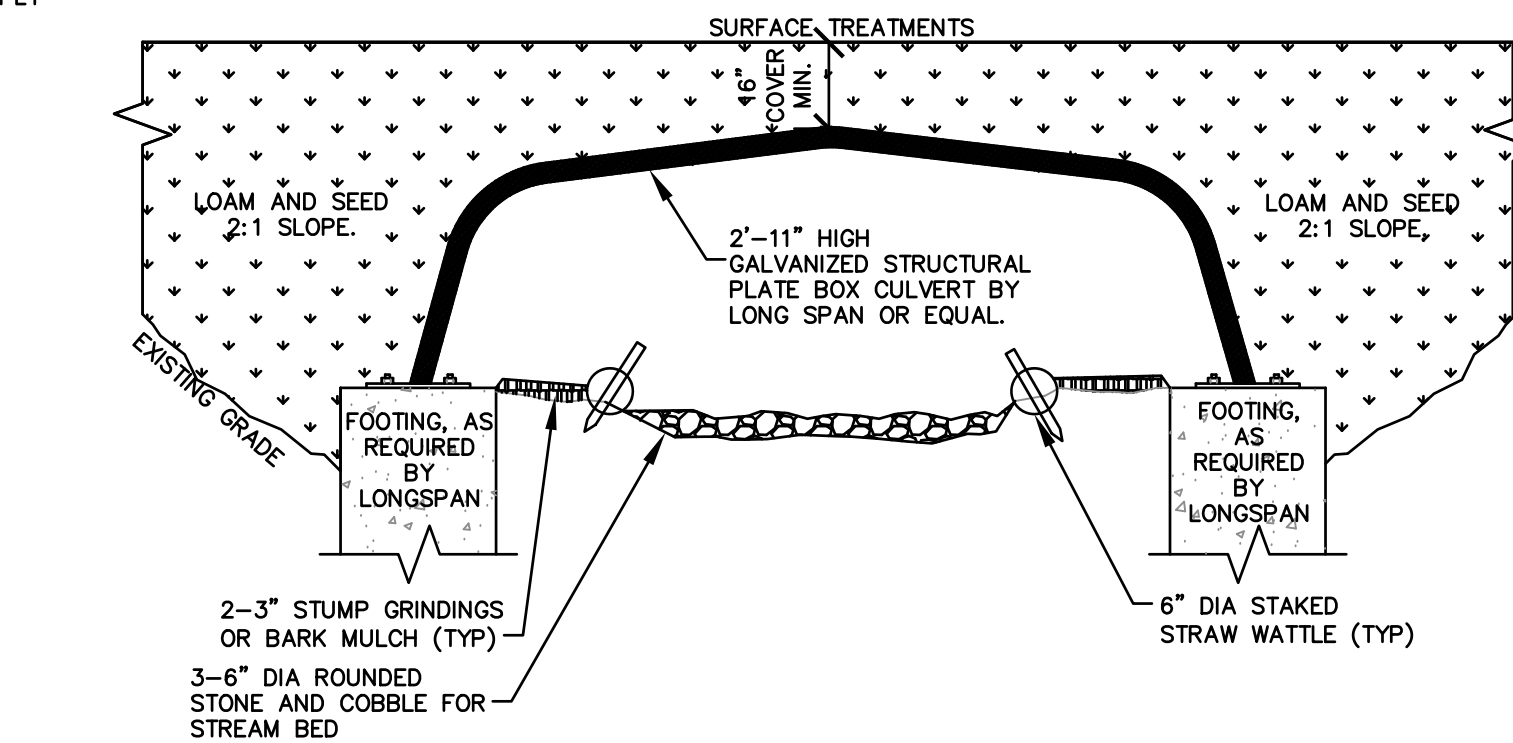


NOTES:

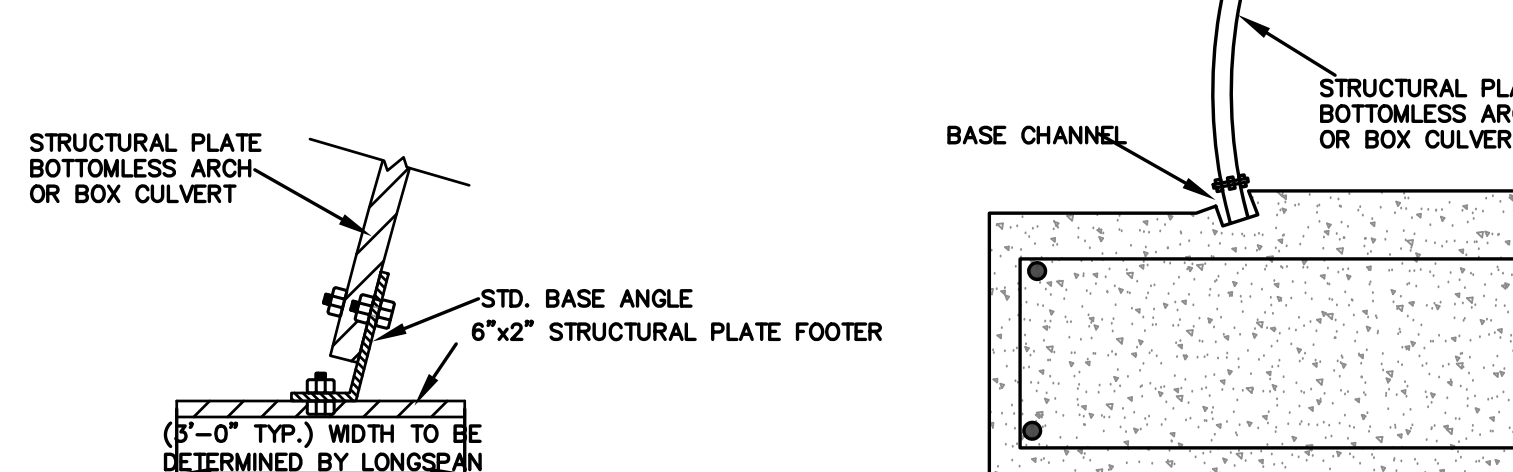
1. THIS DETAIL APPLIES TO UTILITY TRENCHES THAT HAVE NOT BEEN SPECIFIED IN THESE PLANS AND THAT ARE NOT SPECIFIED BY STATE BUILDING CODE, LOCAL REGULATIONS, OR BY THE UTILITY PROVIDER.
1. THE UTILITY CONDUIT, PIPE, ETC SHALL MAINTAIN A MINIMUM SEPARATION OF 6" TO BEDROCK IN ALL DIRECTIONS.
2. ALL TRENCHES SHALL BE CONSTRUCTED IN ACCORDANCE WITH OSHA STANDARDS AND OTHER APPLICABLE REGULATIONS.



SCALE: NOT TO SCALE



SCALE: NOT TO SCALE



SCALE: NOT TO SCALE

(SECTION VIEW)
SCALE: NOT TO SCALE

FENCE WHERE RET. WALL IS $\geq 4'$ 0"

CAP UNIT ADHERES TO TOP UNIT W/VERSA-LOK CONCRETE ADHESIVE

VERSA-LOK MODULAR CONCRETE UNITS

IMPERVIOUS FILL 12" DEEP

3/4" CRUSHED STONE LEVELING PAD MIN. 6" THICK

DRAINAGE AGGREGATE 12" THICK MIN.

4" DIA. DRAIN PIPE OUTLET @ END OF WALL OR @ 40' CENTERS MAX.

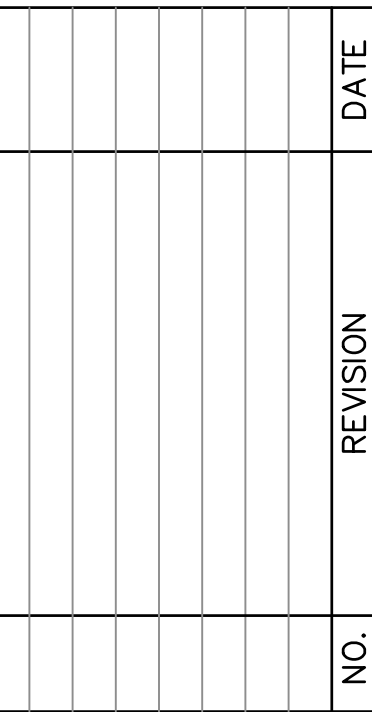
SCALE: NOT TO SCALE



The diagram illustrates the construction of a wetland replication area. It shows a cross-section with three main zones: 'EDGE OF EXISTING WETLANDS' on the left, 'REPLICATION AREA' in the center, and 'UPLANDS' on the right. A 'SILT FENCE BARRIER (TO BE MAINTAINED UNTIL REPLICATION AREA HAS BEEN ESTABLISHED)' is located at the edge of the existing wetlands. The 'EXISTING GRADE' is shown as a dashed line sloping down from the left. The 'REPLICATION AREA' is filled with a stippled pattern, representing the 'STABILIZE REPLICATION AREA WITH GRASS (WETLAND SPECIES) & PLANT TUBES TO ESTABLISH WETLAND VEGETATION'. Below this area, instructions specify to 'EXCAVATE TO 1' BELOW ELEVATION OF ADJACENT WETLAND' and 'REPLACE WITH 1" OF ORGANIC MATERIAL STOCKPILED FROM LOST WETLAND AREA'. The 'UPLANDS' area is shown with a solid line sloping up to the right, labeled 'SLOPE 3:1 (LOAM & SEED)'. A 'SLOPE TO MATCH EXISTING GRADE' is also indicated on the right side of the replication area.

SCALE: NOT TO SCALE

- 1.) CUT AWAY ALL WOODY PLANTS WITHIN THE WETLAND AREA TO BE FILLED. STRIP AND STORE THE HERBACEOUS PLANT COVER AND TOPSOIL FOR REUSE.
- 2.) REGRADE ALL AREAS SUBJECT TO REPLACEMENT, BUT REMOVE AT LEAST SIX INCHES OF TOPSOIL. GRADE ALL AREAS SUCH THAT THE FINISH ELEVATIONS IN THE REPLICATION AREA SHALL BE AT LEAST EQUAL TO THE ADJACENT EXISTING UPLANDS.
- 3.) PLACE SIX INCHES OF STOCKPILED WETLANDS SOILS IN THE REPLICATION AREA. IF NOT ENOUGH WETLAND SOILS ARE AVAILABLE, A 50% PEAT-SAND MIX SHALL BE ADDED AS A GROWTH MEDIUM.
- 4.) TRANSFER PLANTS AND PLANT PARTS (ROOT STOCK, SEEDS, ETC.) OF SELECTED SPECIES FROM ADJACENT WETLAND, AND PLANT WETLAND SPECIES SAVED FROM THE WETLAND AREA FILLED.
- 5.) AT LEAST 75% OF THE REPLICATION AREA SHALL BE REESTABLISHED WITH INDIGENOUS WETLANDS SPECIES WITHIN TWO GROWING SEASONS.
- 6.) THE WETLAND REPLICATION SHALL BE PROVIDED IN ACCORDANCE WITH THE GENERAL PERFORMANCE STANDARDS IN PART III OF 310 CMR 10.00.
- 7.) CONTRACTOR SHALL MAINTAIN A MINIMUM STOCK OF BIOFENCE ON-SITE AND PROTECTED FROM THE ELEMENTS.



KEVIN J. QUINN CIVIL #33922

OWNER:
SADEGH + FARRELL
3 CAMP STREET
PAXTON, MA 01612

APPLICANT:
CABELL MADDUX
CAMP STREET
PAXTON, MA 01612

PROPOSED SUBSURFACE SEWAGE DISPOSAL SYSTEM PLAN

CAMP STREET

SCALE: 1" = 30'

**QUINN
ENGINEERING, INC.**

P.O. Box 107
Paxton, Massachusetts 01612
(508)753-7999 Fax:(508)795-0939

DATE: DECEMBER 23,
2021

TYPICAL DETAILS AND NOTES

CAMP STREET

SHEET 4 OF 4