

SUBSURFACE SEWAGE DISPOSAL SYSTEM NOTES

1. THERE ARE NO WELLS WITHIN 75 FEET OF THE SUBSURFACE SEWAGE DISPOSAL SYSTEM.
2. THERE ARE NO FOOTING DRAINS WITHIN 25 FEET OF THE SUBSURFACE SEWAGE DISPOSAL SYSTEM.
3. A CONDITION OF THIS DESIGN IS THAT THE SUBSURFACE DISPOSAL SYSTEM SHALL BE STAKED BY A LICENSED LAND SURVEYOR PRIOR TO CONSTRUCTION.
4. THE LICENSED INSTALLER IS RESPONSIBLE FOR INSTALLING THE SUBSURFACE SEWAGE DISPOSAL SYSTEM IN ACCORDANCE WITH THE APPROVED PLANS. IN ADDITION, PER PUBLIC HEALTH CODE REQUIREMENTS THE LICENSED INSTALLER SHALL BE ON-SITE DURING THE CONSTRUCTION OF THE SYSTEM.
5. ALL TOPSOIL, STUMPS AND BOULDERS MUST BE REMOVED FROM THE AREA OF THE SUBSURFACE SEWAGE DISPOSAL SYSTEM. SILT FENCE SHALL BE INSTALLED PRIOR TO INSTALLATION OF THE SYSTEM.
6. THE LOCAL HEALTH DEPARTMENT/DISTRICT MUST BE NOTIFIED BEFORE ANY PORTION OF THE SUBSURFACE SEWAGE DISPOSAL SYSTEM IS CONSTRUCTED AND PRIOR TO BACKFILL OF ANY PORTIONS.
7. THE INSTALLER SHALL BE RESPONSIBLE FOR AND ADEQUATELY COMPACT ANY FILL THAT IS REQUIRED OR USED FOR OR IN CONJUNCTION WITH THE SUBSURFACE SEWAGE DISPOSAL SYSTEM. ALL FILL SHALL BE PLACED IN 6 TO 8 INCH LIFTS AND SHALL BE MECHANICALLY COMPACTED.
8. THERE SHALL BE NO CUTS WITHIN 50 FEET OF THE DOWNHILL SIDE OF THE SUBSURFACE SEWAGE DISPOSAL SYSTEM OR WITHIN 25 FEET OF THE SIDES OF THE SYSTEM. THERE SHALL BE NO STUMPS OR BOULDERS BURIED WITHIN 50 FEET OF THE DOWNHILL SIDE OF THE SYSTEM.
9. SHOULD ANY SIGNIFICANT VARIATIONS FROM TEST PIT DATA SHOWN (LEDGE, GROUNDWATER, MOTTLING, SOIL TYPE) BE DISCOVERED BY THE INSTALLER, THE ENGINEER SHALL BE NOTIFIED PRIOR TO PROCEEDING WITH THE INSTALLATION OF THE SUBSURFACE SEWAGE DISPOSAL SYSTEM.
10. IN GENERAL, ALL CONSTRUCTION PRACTICES, AS PER THE PUBLIC HEALTH CODE, SHALL BE ADHERED TO. THE FOLLOWING OUTLINES SOME OF THE MAJOR PROCEDURES, BUT DO NOT RELIEVE THE INSTALLER FROM FULL COMPLIANCE DUE TO THEIR LACK OF MENTION BELOW.
 - a. ALL TOPSOIL, STUMPS AND BOULDERS SHALL BE REMOVED FROM THE AREA OF THE SUBSURFACE SEWAGE DISPOSAL SYSTEM AND FILL THIS AREA SHOULD EXTEND TO A MINIMUM OF 5 FEET AROUND EACH LEACHING AREA. NO MACHINERY OR VEHICLES SHALL BE ALLOWED ON THE EXPOSED NATIVE SOIL. STRIPPING SHOULD NOT TAKE PLACE WITHIN 48 HOURS OF A RAIN STORM OR IF THERE IS STANDING WATER IN THE AREA.
 - b. THE EARTH SHALL BE SCARIFIED PRIOR TO FILL PLACEMENT. GRAVEL FILL SHALL MEET PUBLIC HEALTH CODE SPECIFICATIONS AND BE PLACED IN ACCORDANCE WITH NOTE 7.
 - c. NO TRUCKS OR HEAVY MACHINERY SHALL BE ALLOWED IN THE STRIPPED AREA.
11. THIS SUBSURFACE SEWAGE DISPOSAL SYSTEM IS NOT DESIGNED TO ACCEPT BACKWASH FROM A WATER SOFTENER.
12. ALL GEOMATRIX GST 6212 INSTALLATIONS UTILIZE A SPECIFIED SAND (SEE DESIGN NOTE ON SPECIFIED SAND) AROUND THE LENGTH OF LEACHING SYSTEM SPECIFIED - 2 INCH MINIMUM UNDERNEATH AND 2 INCH MINIMUM ON THE SIDES. THE DEPTH OF SPECIFIED SAND UNDERNEATH THE LEACHING SYSTEM SHALL BE INCREASED BASED ON EXISTING GRADES WITH TOPSOIL REMOVED TO MAINTAIN A LEVEL BASE ELEVATION FOR EACH LEACHING AREA.
13. THE SPACE BETWEEN THE GEOMATRIX GST 6212 SECTIONS CREATED AT ANGLED BENDS SHALL BE FILLED WITH ASTM C33, SPECIFIED SAND, WHERE APPLICABLE.
14. THE GEOMATRIX GST 6212 SYSTEM SHALL BE FED BY A 4 INCH SOLID SDR 35 PVC PIPE AND TRANSITION TO A 4 INCH PERFORATED SDR 35 PVC PIPE. THE LENGTH OF EACH LEACHING SYSTEM, THE END OF THE PERFORATED DISTRIBUTION PIPE SHALL BE PROVIDED WITH A SOLID CAP.
15. BACKFILL AND FINISH GRADING: CAREFULLY PLACE BACKFILL OVER THE LEACHING SYSTEM, A TOTAL MINIMUM DEPTH OF 6 INCHES OF WELL GRADED SANDY FILL (CLEAN, POROUS, AND DEVOID OF ROCKS) AS MEASURED FROM THE TOP OF THE FILTER FABRIC OVER THE DISTRIBUTION PIPE. FINISHED GRADE MUST DIVERT SURFACE RUNOFF FROM THE SOIL TREATMENT AREA AND PREVENT SURFACE PONDING PER THE PROPOSED CONTOUR LINES AND SPOT GRADES PROVIDED ON THE SITE PLAN. PROTECT THE SYSTEM AREA FROM EROSION BY LOAMING AND SEEDING OR BY USING OTHER APPROVED METHODS OF EROSION CONTROL.
16. THIS DESIGN COMPLIES WITH AND MUST BE INSTALLED IN ACCORDANCE WITH THE MOST CURRENT GEOMATRIX GST 62 SERIES DESIGN AND INSTALLATION MANUAL.
17. THE FILL OVER THE SEPTIC TANK SHALL NOT EXCEED 12 INCHES WITHOUT THE INSTALLATION OF PRECAST CONCRETE RISERS ABOVE THE MANHOLES. IF RISERS ARE INSTALLED, THE ORIGINAL COVERS ON THE SEPTIC TANK SHALL REMAIN.
18. A CLEAN OUT SHALL BE INSTALLED JUST INSIDE THE FOUNDATION WALL ON THE BUILDING SEWER PIPE FOR MAINTENANCE PURPOSES.

SUBSURFACE SEWAGE DISPOSAL SYSTEM DESIGN CALCULATIONS

BASIS OF DESIGN:

RESIDENTIAL HOME - 3 BEDROOMS
 NO GARBAGE GRINDER AND NO LARGE TUBS OF 100-200 GALLONS
 ASSUME 150 GALLONS PER BEDROOM PER DAY BASED ON DESIGN FLOW FOR SINGLE FAMILY RESIDENTIAL
 DESIGN FLOW = 3 BEDROOMS X 150 GPCD = 450 GALLONS PER DAY
 DESIGN PERCOLATION RATE = LESS THAN 10.0 MINUTES PER INCH

DESIGN COMPONENTS:

1,250 GALLON TWO COMPARTMENT SEPTIC TANK

EFFECTIVE LEACHING AREA REQUIRED = 495 SF PER TABLE 6 OF THE CTDPH TECHNICAL STANDARDS
 ASSUME 150 GALLONS PER BEDROOM PER DAY BASED ON DESIGN FLOW FOR SINGLE FAMILY RESIDENTIAL
 62"x12" GEOMATRIX GST 6212 LEACHING SYSTEM, ELA=10.0 SF/LF
 12 FOOT MINIMUM ROW SPACING (ON CENTER)

LENGTH OF LEACHING UNITS REQUIRED = 495 SF/10.0 SF/LF = 49.5 LF
 LENGTH OF LEACHING SYSTEM PROVIDED = 60 LF
 TOTAL EFFECTIVE LEACHING AREA PROVIDED = 600 SF

DEPTH TO RESTRICTIVE LAYER = 18 INCHES RESTRICTIVE LAYER/REDDX/GW MOTTLING
 MLSS HYDRAULIC GRADIENT - 6.1%
 MLSS = HF X FF X PF = 34 X 1.5 X 1.0 = 51.0 LF
 60 LF OF LEACHING SYSTEM SPREAD PROVIDED

LEACHING SYSTEM BOTTOM ELEVATION (UPGRADIENT SIDE) - 390.75 FT

LEACHING SYSTEM FILL - PER MANUFACTURER SPECIFICATIONS AND DETAIL DRAWINGS, GST 6212 SYSTEM USES A COMBINATION OF ASTM C33 SELECT SAND AND CT DOT FORM 816 NO. 6 STONE AGGREGATE PER SECTION VIII.A OF THE CTDPH TECHNICAL STANDARDS MEETING THE FOLLOWING STIPULATIONS AND GRADATION:

SELECT FILL SIEVE SIZE	PERCENT PASSING WET SIEVE	PERCENT PASSING DRY SIEVE
#4	100	100
#10	70-100	70-100
#40	10-50*	10-75
#100	0-20	0-5
#200	0-5	0-2.5

*PERCENT PASSING THE #40 SIEVE CAN BE INCREASED TO NO GREATER THAN 75% IF THE PERCENT PASSING THE #100 SIEVE DOES NOT EXCEED 10% AND THE #200 SIEVE DOES NOT EXCEED 5%. IF THE FILL FAILS THE DRY SIEVE BUT PASSES THE WET SIEVE, THEN THE FILL SHALL BE APPROVED.

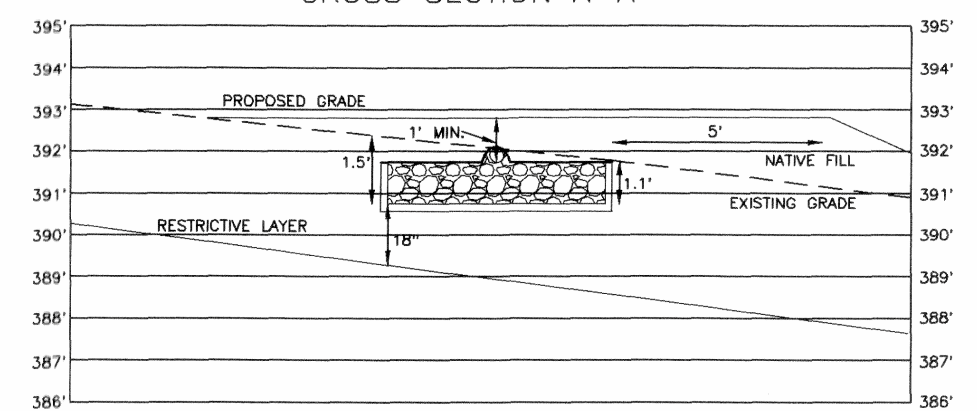
C33 SAND SIEVE SIZE	PERCENT PASSING
0.375"	100
#4	95.0-100.0
#8	80.0-100.0
#16	50.0-85.0
#30	25.0-60.0
#50	5.0-30.0
#100	<10
#200	<5

NOTE: ASTM C33 SELECT SAND SHALL NOT CONTAIN ANY MATERIAL LARGER THAN THE THREE (3) INCH SIEVE. UP TO 45% OF THE DRY WEIGHT OF THE REPRESENTATIVE SAMPLE MAY BE RETAINED ON THE #4 SIEVE. THE MATERIAL THAT PASSES THE #4 SIEVE IS THEN REWEIGHED AND THE SIEVE ANALYSIS STARTED.

SIEVE SIZE	PERCENT PASSING (BY WEIGHT)
NO. 6 STONE AGGREGATE (A.K.A. 3/4" STONE)	
2"	N/A
1.5"	N/A
1"	100
3/4"	90-100
1/2"	20-55
3/8"	0-15
#4	0-5

NOTE: STONE AGGREGATE MUST BE OF UNIFORM CONSISTENCY AND ONLY CONTAIN CLEAN, HARD, TOUGH, DURABLE FRAGMENTS THAT MEET THE SPECIFICATIONS CITED IN THE STONE AGGREGATE DEFINITION WITHIN THE CTDPH TECHNICAL STANDARDS, WHICH INCLUDES A FINES STANDARD OF A MAXIMUM OF 1% PASSING THE #200 SIEVE AT THE PIT/QUARRY SOURCE. THIS STANDARD SHOULD ALSO BE MET AT THE SDDS INSTALLATION SITE; HOWEVER IN NO CASE SHALL THE FINES EXCEED 1.5%.

LEACHING AREA CROSS SECTION DETAIL CROSS SECTION A-A'



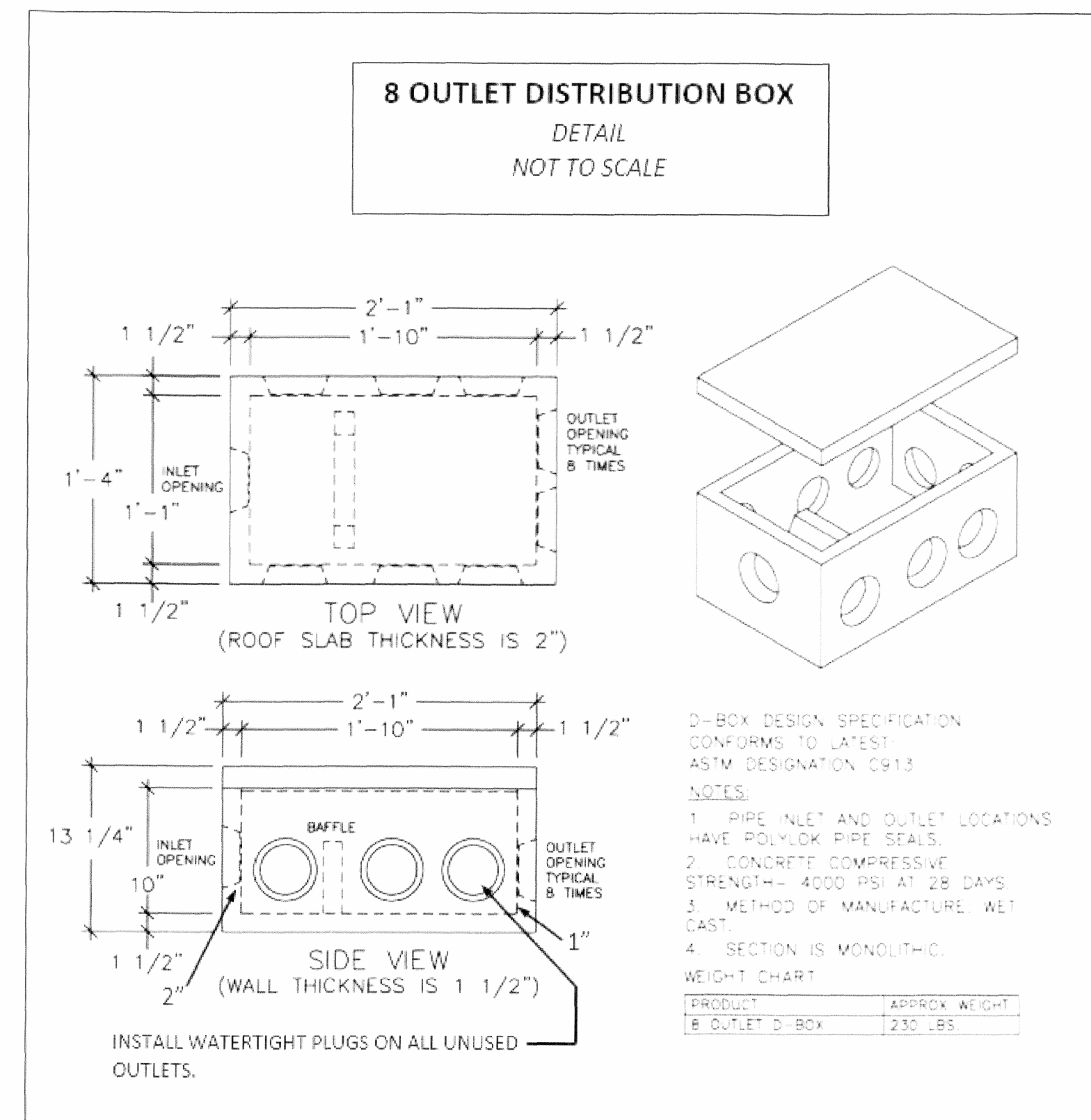
NOT TO SCALE

NOTES:

1. TOPSOIL SHALL BE STRIPPED WITHIN THE LEACHING AREA AND EXTEND A MINIMUM OF 5 FEET IN ALL DIRECTIONS BEYOND THE OUTER PERIMETER OF THE LEACHING SYSTEM.
2. ONCE TOPSOIL IS REMOVED, C33 SAND SHALL BE USED TO ESTABLISH THE BASE ELEVATION FOR THE LEACHING SYSTEM, AS NEEDED.
3. COMMON/NATIVE CLEAN FILL SHALL BE USED TO FILL THE REMAINING AREAS AND ESTABLISH PROPOSED GRADES AND ELEVATIONS AS SPECIFIED.
4. COMMON/NATIVE CLEAN FILL SHALL EXTEND AT LEAST 5 FEET IN ALL DIRECTIONS BEYOND THE OUTER PERIMETER OF THE LEACHING SYSTEM.

SEPTIC ELEVATIONS SCHEDULE

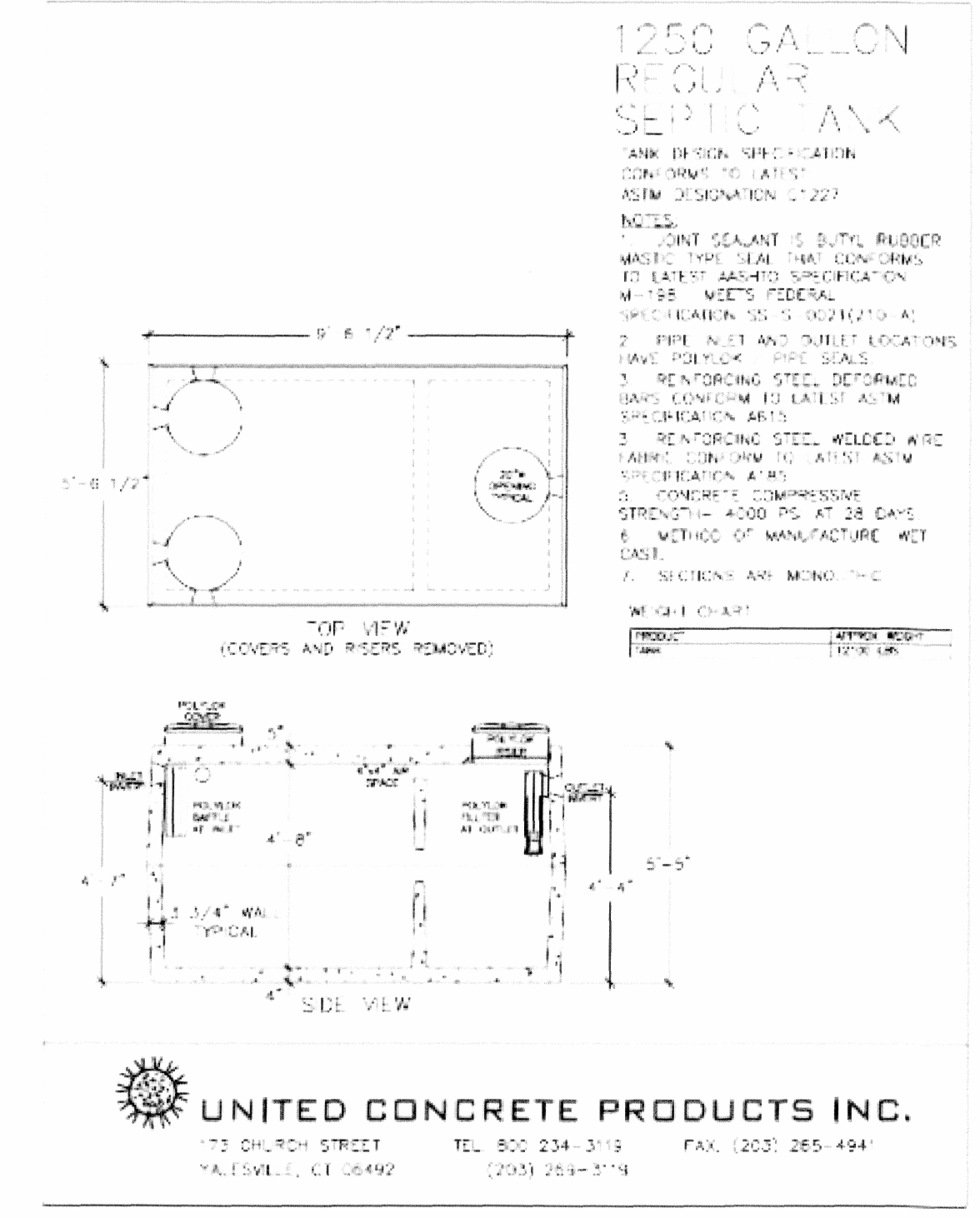
BUILDING SEWER AT FOUNDATION	ELEVATION
SEPTIC TANK	
INLET INVERT	392.94'
OUTLET INVERT	392.26'
TOP OF TANK	392.00'
BOTTOM OF TANK	393.09'
GRADE ON TOP OF TANK	387.67'
DISTRIBUTION BOX	
INLET INVERT	391.85'
LEACHING UNIT OUTLET INVERT	391.75'
LEACHING AREA	
INLET INVERT	391.75'
TOP ELEVATION	391.75'
BOTTOM ELEVATION	390.75'



- 0-BOX DESIGN SPECIFICATION CONFORMS TO LATEST ASTM DESIGNATION: C913
- NOTES:
1. PIPE INLET AND OUTLET LOCATIONS HAVE POLYLOK PIPE SEALS.
 2. CONCRETE COMPRESSIVE STRENGTH= 4000 PSI AT 28 DAYS.
 3. METHOD OF MANUFACTURE: WET CAST.
 4. SECTION IS MONOLITHIC.

PRODUCT	APPROX. WEIGHT
8 OUTLET D-Box	232 LBS

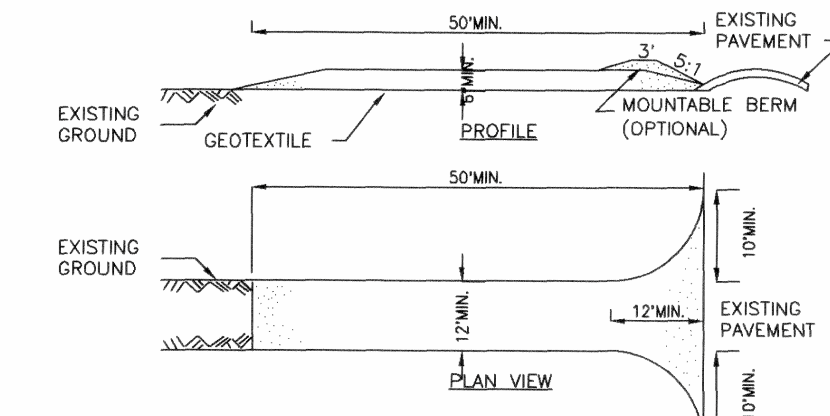
1250 GALLON SEPTIC TANK DETAILS



UNITED CONCRETE PRODUCTS INC.
 172 CHURCH STREET, TEL: 800 234-3119 FAX: (203) 265-4941
 MANSFIELD, CT 06409 (203) 269-3774

- NOTES:
1. SEE ELEVATION SCHEDULE FOR SEPTIC TANK INSTALLATION ELEVATIONS.
 2. SEPTIC TANK SHALL BE INSTALLED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

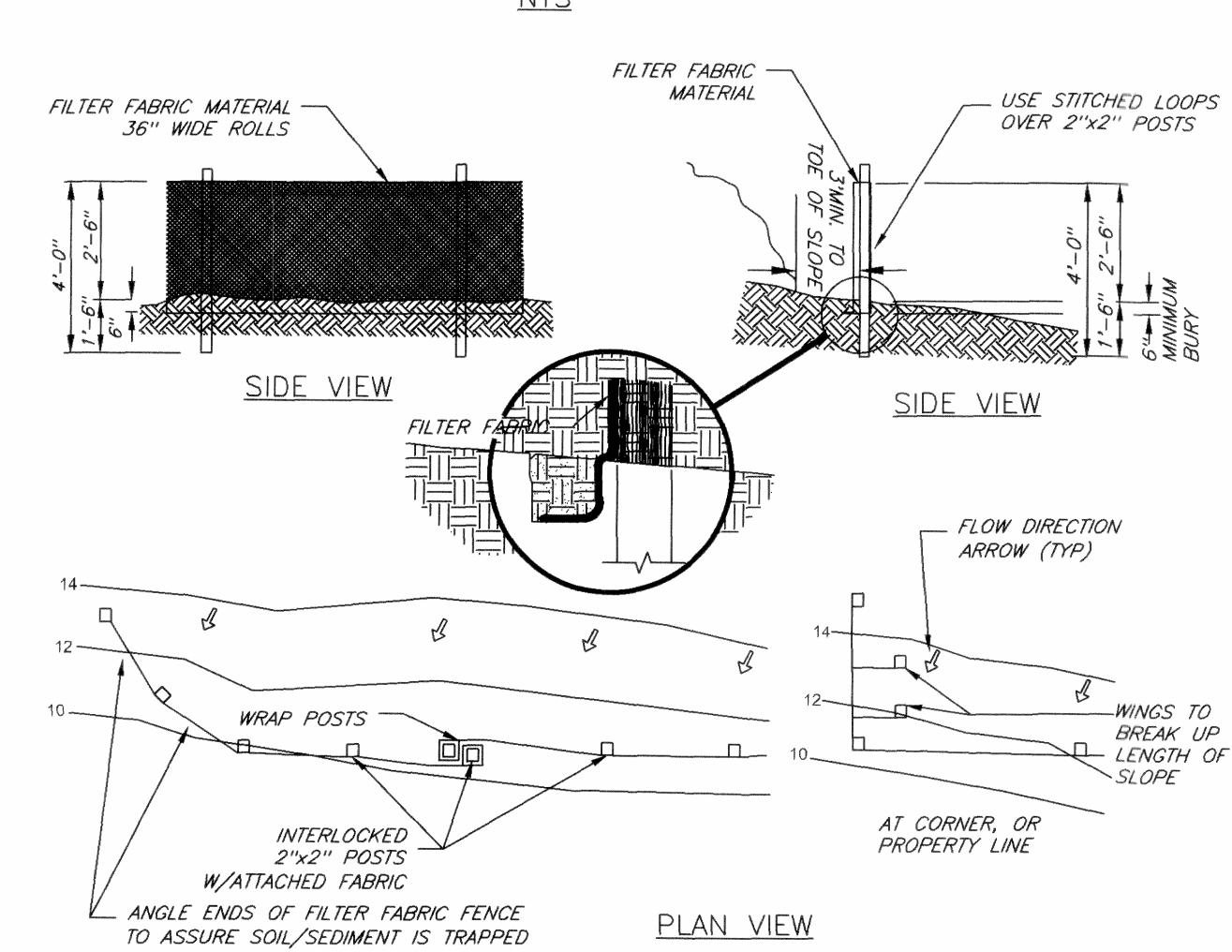
CONSTRUCTION ENTRANCE DETAIL



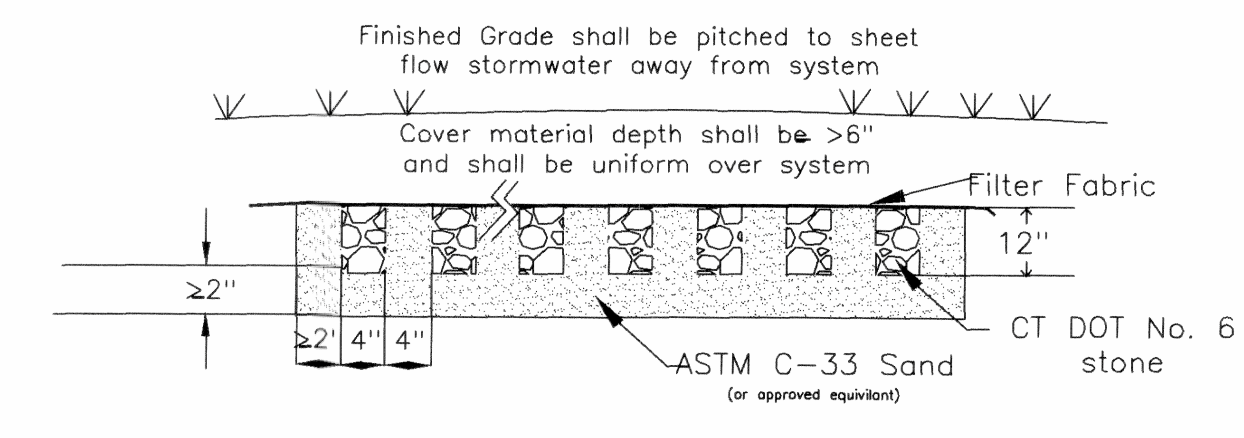
CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 1-4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ACCESS SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 2:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

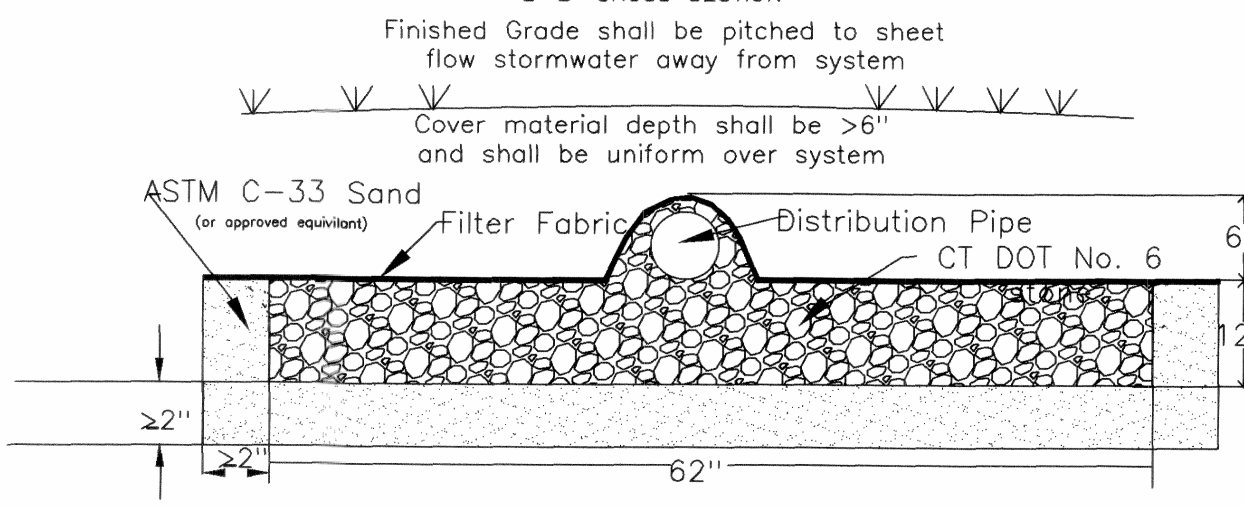
SILT FENCE DETAIL



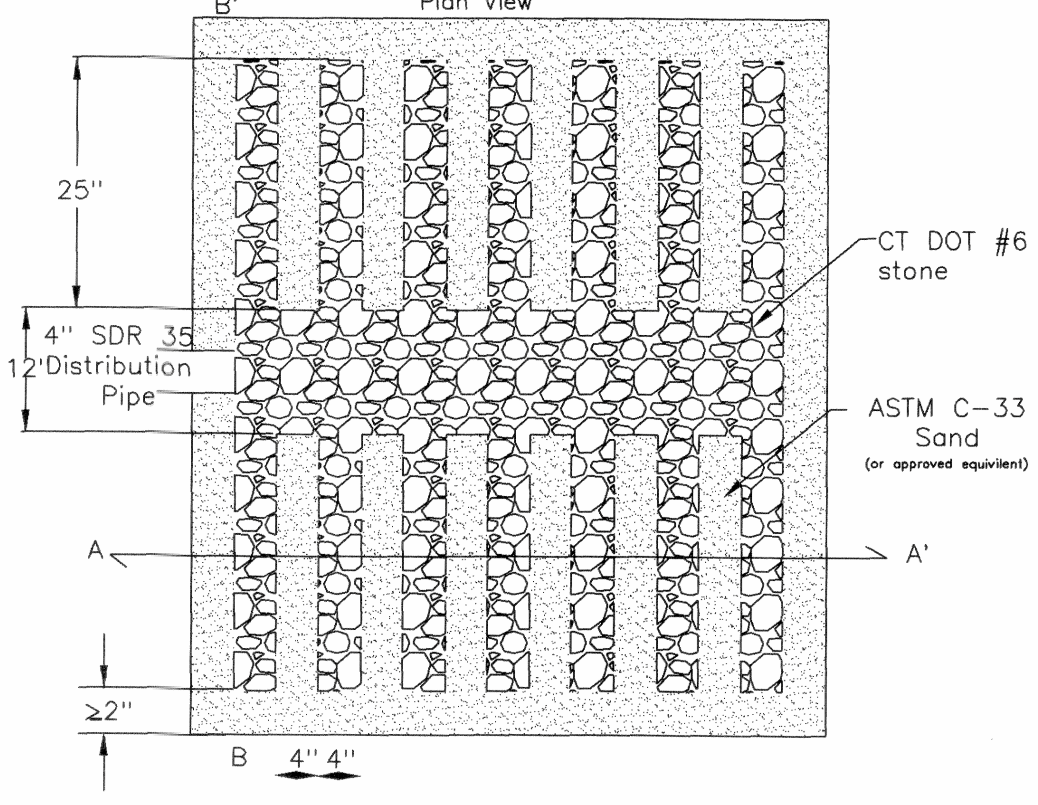
GEOMATRIX GST™ LEACHING SYSTEM A-A' CROSS SECTION



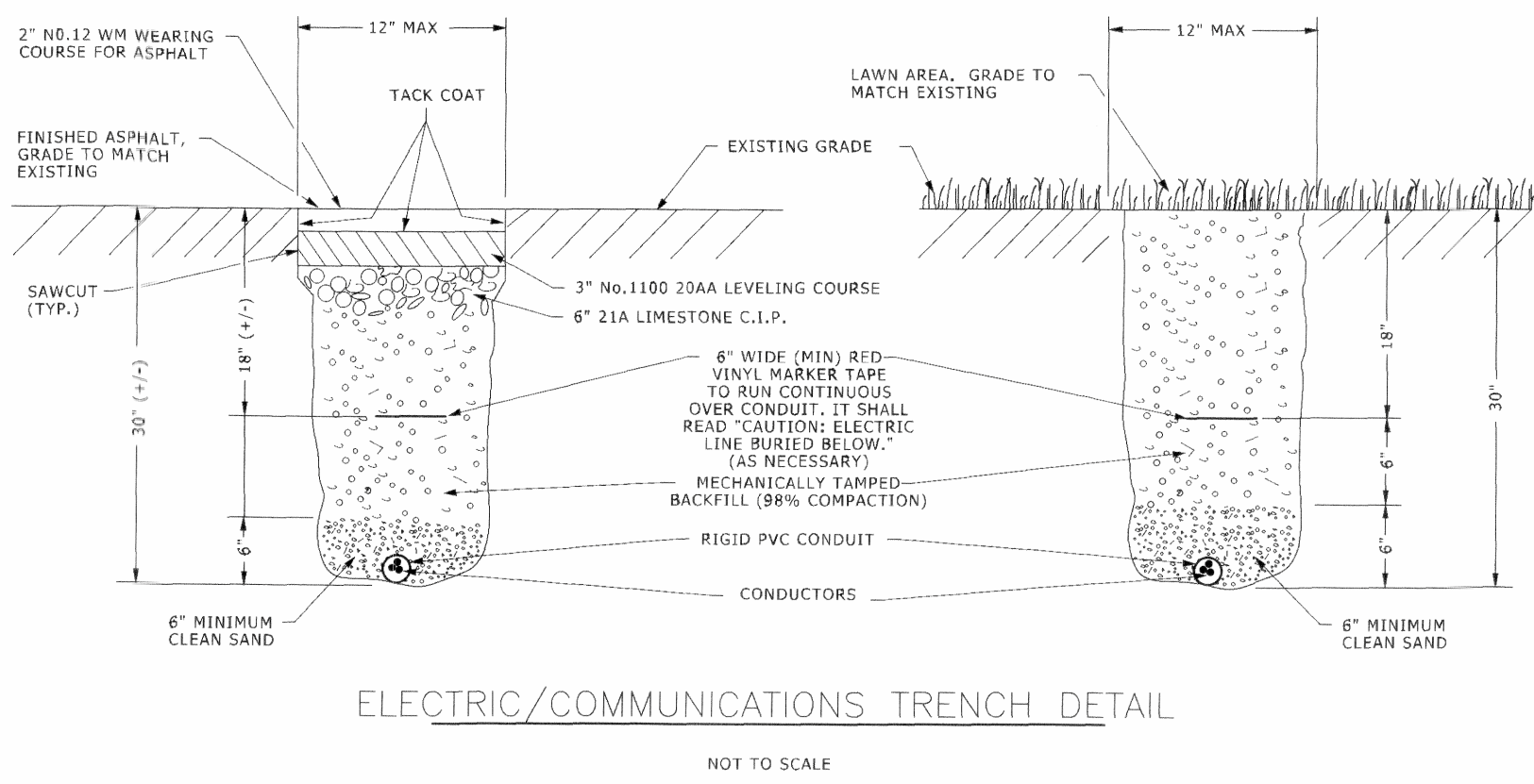
GEOMATRIX GST™ LEACHING SYSTEM B-B' CROSS SECTION



GEOMATRIX GST™ LEACHING SYSTEM Plan View



10/2/22
for review
10/2/22
for review



ELECTRIC/COMMUNICATIONS TRENCH DETAIL

NOT TO SCALE

FILING MYLAR produced by FLOREK SURVEYING LLC

DETAIL DRAWINGS
 LAND BELONGING TO:
ZACHARY F. CASH
CHESTERFIELD ROAD
MONTVILLE, CONNECTICUT
 SCALE: 1" = 40'

APRIL 28, 2021
 JULY 17, 2021
 AUGUST 19, 2021

Doc ID: 00385840001 Type: MAP
 File: 2871

"This plan was compiled from other maps, record research or other sources of information. It is not to be construed as having been obtained as the result of a field survey, and is subject to such change as an accurate field survey may disclose."

GENERAL NOTES:

- 1) North orientation is based on an RTK observation utilizing the SUPERIOR Network in February of 2021.
- 2) Not all underground utilities, if any, are shown on this plan. Call before you dig is recommended prior to any construction activities.
- 3) The word certify as used is understood to be an expression of professional opinion by the surveyor. It is a declaratory statement which is based on the surveyor's best knowledge, information and belief. As such it constitutes neither a guarantee nor warranty, expressed or implied, of any information contained herein.



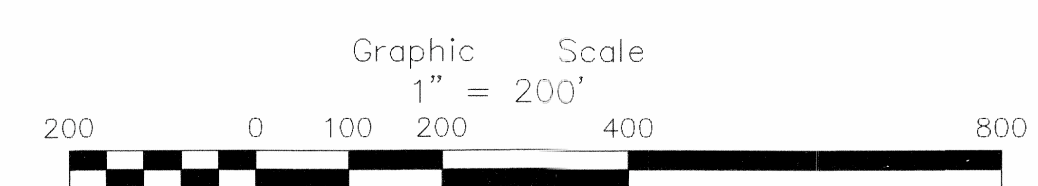
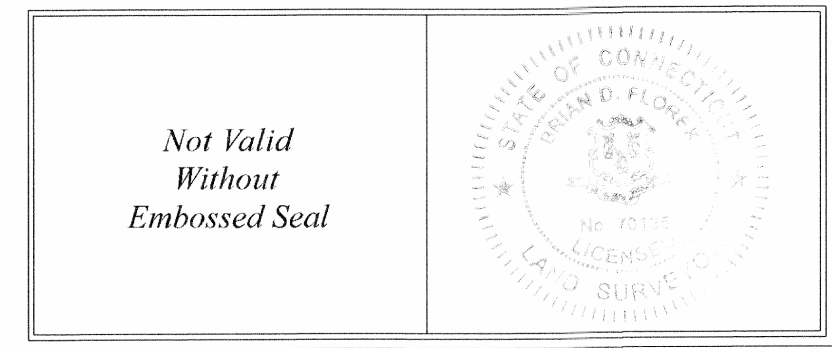
Plan Parcel	Parcel Number	Owner Name	Co Owner Name	Property Address
1	021-001-000	HOWARD ROBERT A & PAMELA A		311 CHESTERFIELD RD
2	029-069-00A	BRYCKI MICHAEL S SR & MARIAN T TRSTES	BRYCKI FAMILY LIVING TRUST	132 BLACK ASH RD
3	029-088-000	JOB CHRISTEN E	(WALENCZYK HARRY S & ELIZABETH C LUJ)	124 BLACK ASH RD
4	029-089-000	PONTON FRANCES J		118 BLACK ASH RD
5	029-107-000	ROSS JOSEPH		25 CARIBOU WAY
6	029-108-000	WILLIAMS CHARLES R & DIANNE E		23 CARIBOU WAY
7	029-109-000	SWIFT JONATHAN A		17 CARIBOU WAY
8	029-110-000	KOPIJ TADEUSZ JR & CHARLENE F		11 CARIBOU WAY
9	029-112-000	JONES DWIGHT W JR & ERIKA SWAN		46 ORTEGA DR
10	029-113-000	SANTACROCE CYNTHIA E		45 ORTEGA DR
11	029-067-000	CONNECTICUT LIGHT & POWER COMPANY		BLACK ASH RD
12	029-065-000	HUBBERT NANCY ANNE		213 CHESTERFIELD RD
13	029-064-000	FALCON JUAN MANUEL & TARA LEE		225 CHESTERFIELD RD
14	029-063-000	CLARK NANCY A		229 CHESTERFIELD RD
15	029-062-001	DESAUTELS MICHAEL A & TERRI		237 CHESTERFIELD RD
16	029-062-000	CIL REALTY INCORPORATED		245 CHESTERFIELD RD
17	029-061-000	DELACRUZ ANITA		253 CHESTERFIELD RD
18	029-060-000	TERRACCIANO DANIEL A		259 CHESTERFIELD RD
19	029-059-000	ANGELUS FRANK D & ANJANETTE M		263 CHESTERFIELD RD
20	029-058-000	NAZARKO THOMAS & DIANE		267 CHESTERFIELD RD
21	029-057-000	SMIAROWSKI EDWARD S & -----		271 CHESTERFIELD RD

Survey Notes:

1. This survey has been prepared pursuant to the regulations of the Connecticut State Agencies, Sections 29-300b-1 through 29-300b-29 and the "Standards for surveys and maps in the State of Connecticut" as adopted by the Connecticut Association of Land Surveyors, Inc. on September 26, 1996; Amended October 20, 2018. This survey is a COMPILATION SURVEY. It is intended to show PROPOSED FOUSE LOCATION IN RELATION TO THE PROPERTY LINES. This map is an resurvey.
2. This survey conforms to Class D horizontal accuracy.

To the best of my knowledge and belief this map is substantially correct as noted thereon.

Brian D. Florek 10/2/22
 Brian D. Florek, L.S. #70135 Date
 Managing Member, Florek Surveying, LLC
 239 Shore Road, Waterford, CT 06385
 bflorek@floreksurveyingllc.com (860) 271.6006



COMPILATION SURVEY
 PLAN PREPARED FOR
ZACHARY F. CASH
CHESTERFIELD ROAD
MONTVILLE, CONNECTICUT
ZONE: R - 80
 SCALE: 1" = 200'
 DATED: JULY 11, 2021

Received for Record at Montville, CT
 On 10/2/22 at 9:46:39 pm
Brian D. Florek