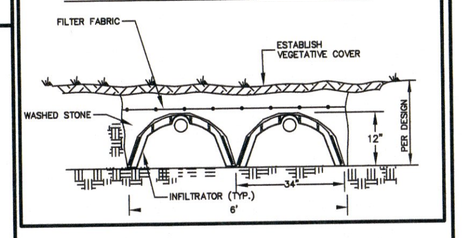
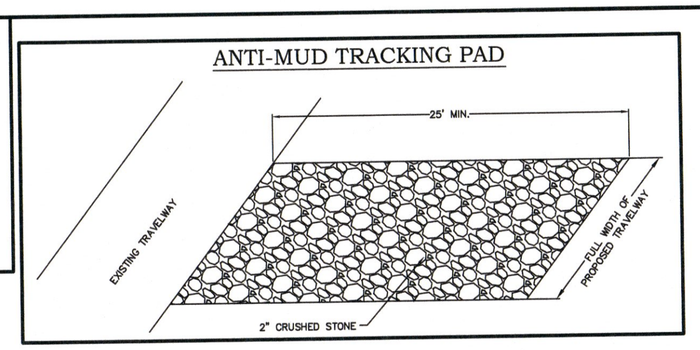
LEGEND

- PROPERTY LINE
- ADJOINING PROPERTY LINE
- BUILDING SETBACK LINE
- EXISTING EDGE OF PAVING
- WETLAND BOUNDARY
- WETLAND SETBACK
- PROPOSED WELL
- ANTI-MUD TRACKING PAD
- SILT FENCE
- LIMIT OF CLEARING
- 123 EXISTING CONTOURS
- 123 PROPOSED CONTOURS
- IRON PIN FOUND
- x 123.4 PROPOSED SPOT GRADE
- DT-9 DEEP TEST HOLES
- P-2 PERCOLATION TESTS
- BENCH MARK

INFILTRATOR TRENCH DETAIL



ANTI-MUD TRACKING PAD



GENERAL SEPTIC NOTES

1. WATER SERVICE BY PRIVATE WELL.
2. THIS SYSTEM IS TO BE CONSTRUCTED IN ACCORDANCE WITH ALL STATE AND LOCAL HEALTH REGULATIONS.
3. THE INSTALLATION OF THE SEPTIC SYSTEM SHALL BE UNDER THE SUPERVISIONS OF A PROFESSIONAL ENGINEER.
4. IT IS THE RESPONSIBILITY OF THE INSTALLER TO KEEP LOCAL HEALTH DEPARTMENT AND THE ENGINEER OF RECORD INFORMED OF CONSTRUCTION PROGRESS.
5. ALL PIPING BETWEEN HOUSE AND SEPTIC TANK SHALL BE FOUR INCHES IN DIAMETER. MATERIALS MAY BE CAST IRON (HUBLESS OR BELL AND SPIGOT) ASTM A74, DUCTILE IRON ANSIA21.51, PVC SCHEDULE 40, ASTM D 2665, EXTRA STRENGTH PVC AWWA C-900 100 PSI MIN, DUCTILE IRON ANDI A 21.51, OR PVC ASTM 7 1760. MINIMUM SLOPE SHALL BE 1/4" PER FOOT.
6. ALL PIPE USED BETWEEN THE SEPTIC TANK AND LEACHING AREA SHALL BE 4" SDR-35 PVC PIPE WITH WATERTIGHT JOINTS OR EQUIVALENT EQUAL. PIPE SHALL BE SET ON A MINIMUM SLOPE OF 1/4" PER FOOT.
7. STRIP AND STOCKPILE TOPSOIL AND REMOVE BOULDERS PRIOR TO PLACING FILL. ALL TOPSOIL MUST BE REMOVED IN FILL SYSTEMS.
8. D'AMICO ASSOCIATES ASSUMES NO RESPONSIBILITY FOR COMPLIANCE WITH PLAN SPECIFICATIONS UNLESS D'AMICO ASSOCIATES SUPERVISES ALL PHASES OF THE INSTALLATION.
9. AS-BUILT DRAWING TO BE PREPARED BY PROFESSIONAL ENGINEER PRIOR TO BACKFILLING.
10. FINAL GRADING TO BE COMPLETED IMMEDIATELY AFTER COMPLETION OF AS-BUILT DRAWING.
11. THERE ARE NO WELLS WITHIN 75' OF PROPOSED SEPTIC SYSTEM.

DETENTION CALCULATIONS

USE SCS METHOD, TR-55 MANUAL
100 YEAR DESIGN STORM
24-HOUR RAINFALL, 7.2 INCHES
(FIG. B8, TR-55 MANUAL)

CN NUMBERS
RUNOFF NUMBER FOR CN=98 (DWELLING)
RUNOFF NUMBER FOR CN=98 (DRIVEWAY)
RUNOFF NUMBER FOR CN=90 (STONE PATIO)
RUNOFF NUMBER FOR CN=65 (GRASS)
RUNOFF NUMBER FOR CN=60 (UNDEVELOPED)

NEW CN NUMBER

AREA x CN = AVE CN			
DWELLING	2200	x 98 =	215,600
DRIVEWAY	3000	x 98 =	294,000
STONE PATIO	600	x 90 =	54,000
GRASS	10,000	x 65 =	650,000
	15,800		1,213,600

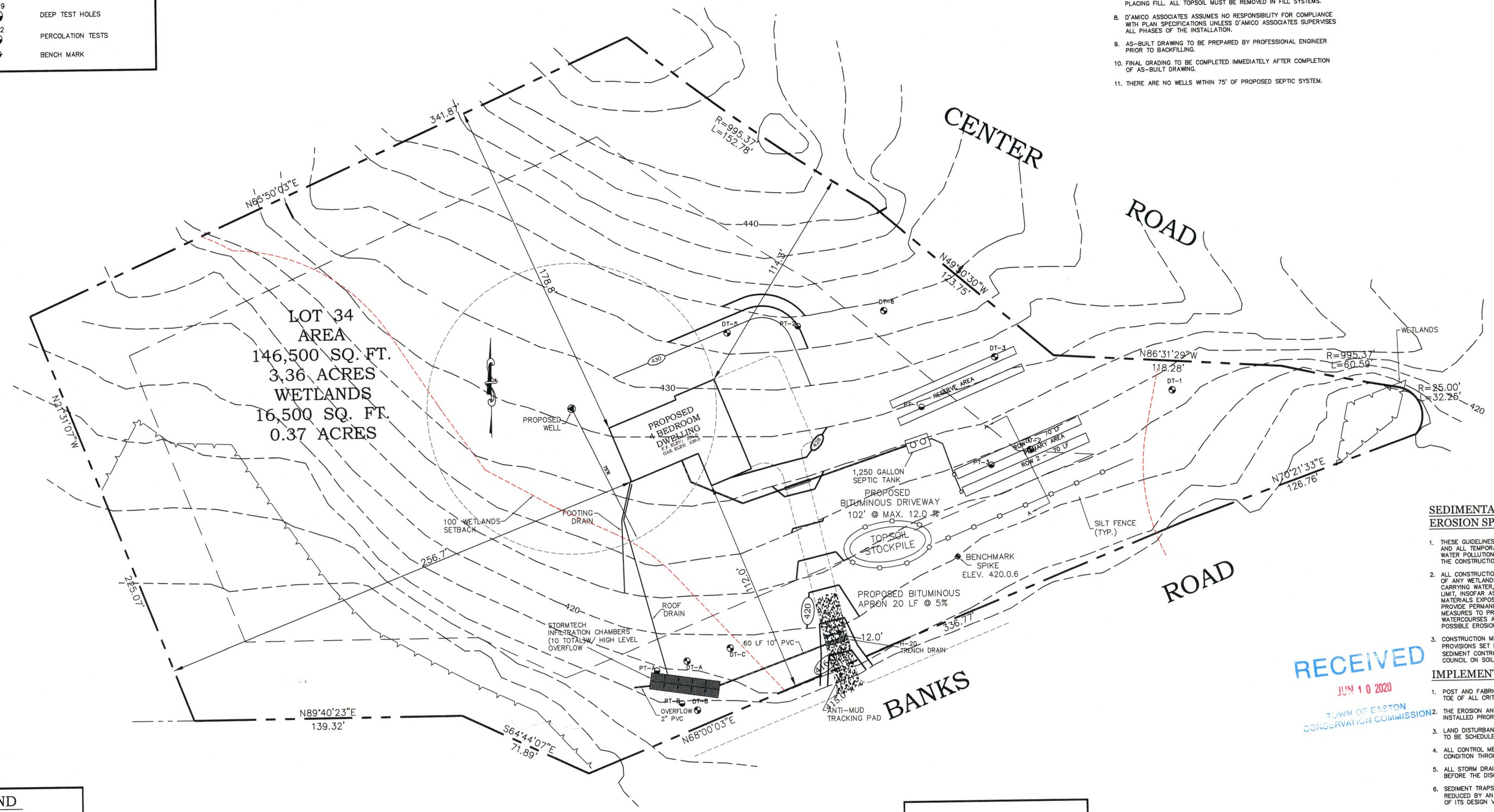
TOTAL AVE CN = NEW CN
TOTAL AREA

1,213,600 = 76.8 (USE 77)
15,800

RUNOFF DEPTHS (TABLE 2-1)
NEW (CN=77) = 4.55
EXISTING (CN=60)= 2.75
NEW – EXISTING= RUNOFF DEPTH
4.55 – 2.75 = 1.8
RUNOFF DEPTH x TOTAL AREA / 12
= STORAGE REQUIRED
15,800 SF ((1.8 IN.)/12 IN./FT.) = 2,370 CF

STORAGE PROVIDED

10 STORMTECH UNDERGROUND GALLEYS
@ 71 CF PER UNIT
UNITS WILL DRAIN FOUR TIMES IN 24 HOURS
TOTAL STORAGE PROVIDED = 4 x 71
= 284 CF PER UNIT
10 x 284 = 2,840 CF PROVIDED



SEDIMENTATION & EROSION SPECIFICATIONS

1. THESE GUIDELINES SHALL APPLY TO ALL WORK CONSISTING OF ANY AND ALL TEMPORARY AND OR PERMANENT MEASURES TO CONTROL WATER POLLUTION AND SOIL EROSION AS MAY BE REQUIRED, DURING THE CONSTRUCTION OF THE PROJECT.
2. ALL CONSTRUCTION ACTIVITIES SHALL PROCEED SO THAT POLLUTION OF ANY WETLANDS, WATERCOURSES, WATERBODY, AND OR CONDUIT CARRYING WATER, ETC. DOES NOT OCCUR. THE CONTRACTOR SHALL LIMIT, INSOFAR AS POSSIBLE, THE SURFACE AREA OF EARTH MATERIALS EXPOSED BY CONSTRUCTION METHODS AND IMMEDIATELY PROVIDE PERMANENT AND TEMPORARY POLLUTION CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT WETLANDS, WATERCOURSES AND WATERBODIES, AND TO PREVENT, INSOFAR AS POSSIBLE EROSION ON THE SITE.
3. CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE PROVISIONS SET FORTH IN THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" (2002) BY THE STATE OF CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION.

IMPLEMENTATION NOTES

1. POST AND FABRIC SILTATION BARRIERS SHALL BE INSTALLED AT THE TOE OF ALL CRITICAL CUT AND FILL SLOPES.
2. THE EROSION AND SEDIMENTATION CONTROL MEASURES ARE TO BE INSTALLED PRIOR TO CONSTRUCTION WHENEVER POSSIBLE.
3. LAND DISTURBANCE SHALL BE KEPT TO A MINIMUM. RESTABLIZATION TO BE SCHEDULED AS SOON AS PRACTICAL.
4. ALL CONTROL MEASURES ARE TO BE MAINTAINED IN AN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
5. ALL STORM DRAINAGE OUTLETS MUST BE STABILIZED, AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
6. SEDIMENT TRAPS MUST BE CLEANED WHEN CAPACITY HAS BEEN REDUCED BY AN AVERAGE OF 2' OVER ITS TOTAL AREA OR TO 80% OF ITS DESIGN VOLUMES, WHICHEVER OCCURS FIRST.
7. ALL EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSPECTED ON A DAILY BASIS AND CLEANED IMMEDIATELY AFTER EACH STORM.
8. ADDITIONAL MEASURES ARE TO BE INSTALLED IF NECESSARY OR REQUIRED DURING CONSTRUCTION PERIOD.
9. SEDIMENT REMOVED FROM THE CONTROL STRUCTURES SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH THE INTENT OF THE PLAN.
10. PAVEMENT BASE COURSE MUST BE PLACED IN ALL NEW ROADWAY AREAS UPON COMPLETION OF FINE GRADING.
11. ALL EXPOSED SUBSURFACES WILL BE TREATED WITH 6" OF TOPSOIL PRIOR TO FINAL STABILIZATION, WHERE APPROPRIATE.
12. THE CONTRACTOR/OWNER IS RESPONSIBLE FOR ALL PAVED ROADWAYS ON AND OFF SITE AND MUST ENSURE THE SITE IS FREE OF SITE GENERATED SEDIMENT AT ALL TIMES. DUST SHALL BE CONTROLLED BY SPRINKLING OR ANOTHER APPROVED METHOD.
13. ALL EROSION AND SEDIMENTATION CONTROL MEASURES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL."
14. THE RESPONSIBILITY FOR; IMPLEMENTING THE EROSION AND SEDIMENT CONTROL PLAN, INFORMING ALL CONCERNED OF THE REQUIREMENT OF THE PLAN; NOTIFYING THE PLANNING AND ZONING COMMISSION, ITS DESIGNATED REPRESENTATIVE OF ANY TRANSFER OF RESPONSIBILITY AND SEEING THAT A COPY OF THE PLAN IS RECEIVED BY ANY SUCCESSOR IN INTEREST TO THE TITLE OF THE LAND OR ANY PORTION THEREOF IS ASSIGNED TO THE OWNER OF RECORD.

RECEIVED
JUN 10 2020
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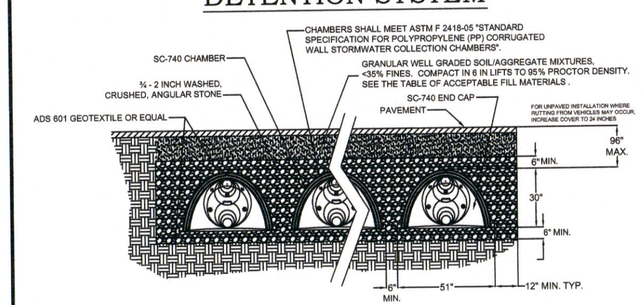
CONSERVATION COMMISSION

STORMTECH UNDERGROUND DETENTION SYSTEM

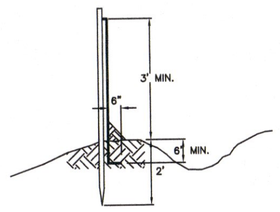


NOTES:
SEE PLAN FOR QUANTITY, LOCATION, & ARRANGEMENT OF CHAMBERS.

INSTALLATION OF THE CHAMBERS SHALL CONFORM TO THE REQUIREMENTS AND SPECIFICATIONS OF THE MANUFACTURER, STORMTECH.

FOR STORMTECH INFORMATION, CALL 1-888-892-2694 OR VISIT ONLINE WWW.STORMTECH.COM

SILT FENCE



INSTALLATION NOTES:
1. EXCAVATE AND SECURE BOTTOM 8" OF SILT FENCE BELOW GRADE AS SHOWN.
2. EXCEPT FOR THE END POST, DRIVE ALL POSTS INTO THE GROUND AT BACK SIDE OF TRENCH SPACED A MAXIMUM OF 8 FT O. C.

"SELECT FILL" SPECIFICATIONS

1. FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN 3 INCHES.
2. UP TO 45% OF THE DRY WEIGHT OF THE SAMPLE MAY BE RETAINED ON THE #4 SIEVE.
3. OF THE MATERIAL THAT PASSES THE #4 SIEVE, IT MUST PASS THE FOLLOWING CRITERIA:

SIEVE SIZE	PERCENT PASSING	
	WET SIEVE	DRY SIEVE
#4	100	100
#10	70–100	70–100
#40	10–50[1]	10–75
#100	0–20	0–5
#200	0–5	0–2.5

NOTES:
1. 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%.
2. SIEVE ANALYSIS TO BE SUBMITTED TO THE DESIGN ENGINEER AND THE HEALTH DEPARTMENT BEFORE THE START OF CONSTRUCTION.

No.	Date	REVISION DESCRIPTION	No.	Date	REVISION DESCRIPTION

THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 20-300B-1 TO 20-300B-20 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES. IT IS A MAP BASED ON A DEPENDENT RESURVEY CONFORMING TO HORIZONTAL ACCURACY CLASS A-2. TO THE BEST OF MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

FRED D'AMICO CONN. P.E., L.S. 10833

D'AMICO ASSOCIATES
SURVEYING & ENGINEERING CONSULTANTS
9 PARK ROAD
OXFORD, CONNECTICUT 06478
P: (203) 881-3184
F: (203) 881-0248
damicoassociates@sbcglobal.net

Job No.	Drn By
3835	JVD
Scale	Date
1"=30'	3/17/2020

Project Name
ELIZABETH CAPELA
20 BANKS ROAD
EASTON CONNECTICUT

Drawing Title
DETAIL SHEET