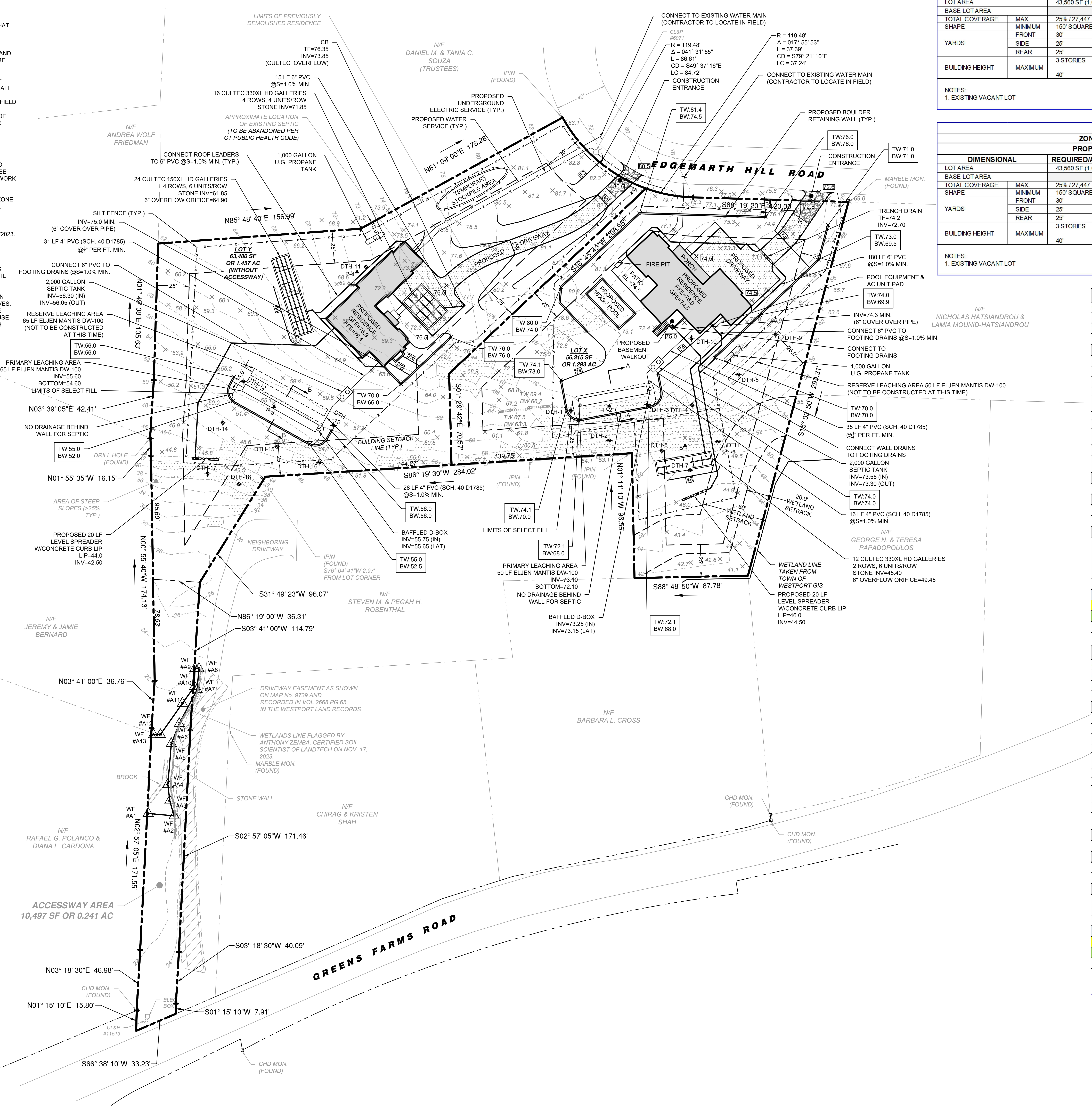
GENERAL NOTES

1. LOT LINE & TOPOGRAPHIC INFORMATION FOR 11 EDGEMARTH HILL ROAD TAKEN FROM ZONING LOCATION & TOPOGRAPHIC SURVEY PREPARED BY LANDTECH DATED JANUARY 5, 2024.
2. DATUM: NAVD 88
3. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UNDERGROUND PIPING, UTILITIES, AND OTHER FEATURES ARE TAKEN FROM EXISTING AS-BUILT MAPPING AND OTHER SOURCES OF INFORMATION AND ARE APPROXIMATE. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. IN ADDITION, THERE MAY BE OTHER UNDERGROUND PIPING, UTILITIES, AND OTHER FEATURES PRESENT THAT ARE NOT SHOWN. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE PRESENCE OF ANY OF THESE EXISTING ELEMENTS BY WHATEVER MEANS NECESSARY AND PROTECTING THESE ELEMENTS AS REQUIRED OR RELOCATING THEM IF THEY ARE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CALL "CALL BEFORE YOU DIG," 1-800-922-4455, THREE FULL WORKING DAYS PRIOR TO ANY EXCAVATION WORK ON THE PROPERTY.
5. SUBJECT PROPERTY IS LOCATED IN FEMA FLOOD ZONE "X" AS SHOWN ON FEMA FIRM PANEL 09001C 0414G, EFFECTIVE JULY 8, 2013.
6. WETLAND LINES FLAGGED BY ANTHONY ZEMBA, CERTIFIED SOIL SCIENTIST OF LANDTECH ON 11/17/2023.
7. A NEW BENCHMARK SHALL BE SET PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
8. ALL EROSION AND SEDIMENT CONTROL MEASURES SPECIFIED IN THE PLAN SHALL BE MAINTAINED UNTIL DISTURBED AREAS.
9. THE SITE DEVELOPMENT LAYOUT OF LOT Y HEREON REPRESENTS ONE OF MANY POSSIBLE ALTERNATIVES. ACTUAL DEVELOPMENT ON THE LOT WILL REQUIRE APPROVAL/SIGN OFF FROM ALL WESTPORT LAND USE DEPARTMENTS PRIOR TO ISSUANCE OF A BUILDING PERMIT
10. THE SITE DEVELOPMENT FOR LOT X IS UNDER A SEPARATE PERMIT.

LANDTECH



ZONING DATA - LOT X

ZONING DISTRICT: RESIDENCE AA DISTRICT

PROPOSED USE: SINGLE-FAMILY RESIDENCE

DIMENSIONAL		REQUIRED/ALLOWED	EXISTING	PROVIDED	CONFORMS
LOT AREA		43,560 SF (1.0 AC.)	56,315 SF (1.293 AC.)	56,315 SF (1.293 AC.)	Y
BASE LOT AREA			49,643 SF (1.140 AC.)	49,643 SF (1.140 AC.)	
TOTAL COVERAGE	MAX.	25% / 27,447 SF	0.0% / 0 SF	14.2% / 7,028 SF	Y
SHAPE	MINIMUM	150' SQUARE	>150'	>150'	Y
YARDS	FRONT	30'	N/A[1]	30.5'	Y
	SIDE	25'	N/A[1]	28.0'	Y
	REAR	25'	N/A[1]	102.3'	Y
BUILDING HEIGHT	MAXIMUM	3 STORIES 40'	N/A[1]	3 STORIES <40'	Y

NOTES:
1. EXISTING VACANT LOT

ZONING DATA - LOT Y

ZONING DISTRICT: RESIDENCE AA DISTRICT

PROPOSED USE: SINGLE-FAMILY RESIDENCE

DIMENSIONAL		REQUIRED/ALLOWED	EXISTING	PROVIDED	CONFORMS
LOT AREA		43,560 SF (1.0 AC.)	73,977 SF (1.698 AC.)	73,977 SF (1.698 AC.)	Y
BASE LOT AREA			60,146 SF (1.381 AC.)	60,146 SF (1.381 AC.)	
TOTAL COVERAGE	MAX.	25% / 27,447 SF	0.0% / 0 SF	11.1% / 6,704 SF	Y
SHAPE	MINIMUM	150' SQUARE	>150'	>150'	Y
YARDS	FRONT	30'	N/A[1]	151.7'	Y
	SIDE	25'	N/A[1]	25.0'	Y
	REAR	25'	N/A[1]	78.9'	Y
BUILDING HEIGHT	MAXIMUM	3 STORIES 40'	N/A[1]	3 STORIES <40'	Y

NOTES:
1. EXISTING VACANT LOT

PROPERTY INFORMATION

OWNER: SCOTT MARONA

SITE: 11 EDGEMARTH HILL ROAD - LOT X

ZONE: RESIDENCE AA DISTRICT

TOTAL SITE AREA: 1.293 AC; 56,315 SF

LOT AREA / COVERAGE CALCULATIONS

1.	TOTAL LOT AREA (GROSS)		56,315 SF
2.	ABOVE GROUND UTILITY EASEMENTS	0	
3.	STREETS, ROADS, & ACCESSWAYS	0	
4.	OTHER EXCLUSIVE SURFACE EASEMENTS	0	
5.	TOTAL EASEMENTS & ROADS (SUM OF LINES 2, 3, AND 4)		0 SF
6.	WETLAND AREAS	0	
7.	STEEP SLOPES >25%	8340	
8.	TOTAL WETLANDS & STEEP SLOPES (SUM OF LINES 6 & 7)	8340	
9.	WETLANDS / SLOPES REDUCTION	0.80 x LINE 8	6672 SF
10.	BASE LOT AREA (LINE 1 MINUS LINES 5 AND 9)		49,643 SF
	ALLOWABLE LOT COVERAGE		
11.	BASE LOT AREA x 25%	LINE 10 x 0.25	12,411 SF
	EXISTING LOT COVERAGE		
12.	VACANT LOT	0 SF	
13.		SUM OF LINE 12	0,000 SF
	PROPOSED LOT COVERAGE		
14.	PROPOSED RESIDENCE & PORCH	3685 SF	
	PROPOSED DRIVEWAY	2749 SF	
	PROPOSED POOL	576 SF	
	PROPOSED FIRE PIT	18 SF	
15.		SUM OF LINE 14	7,028 SF
16.	**ALLOWABLE LOT COVERAGE**	25%	12,411 SF
17.	**EXISTING LOT COVERAGE**	0.0%	0,000 SF
18.	**PROPOSED LOT COVERAGE**	14.2%	7,028 SF

NOTES:

PROPERTY INFORMATION

OWNER: SCOTT MARONA

SITE: 11 EDGEMARTH HILL ROAD - LOT Y

ZONE: RESIDENCE AA DISTRICT

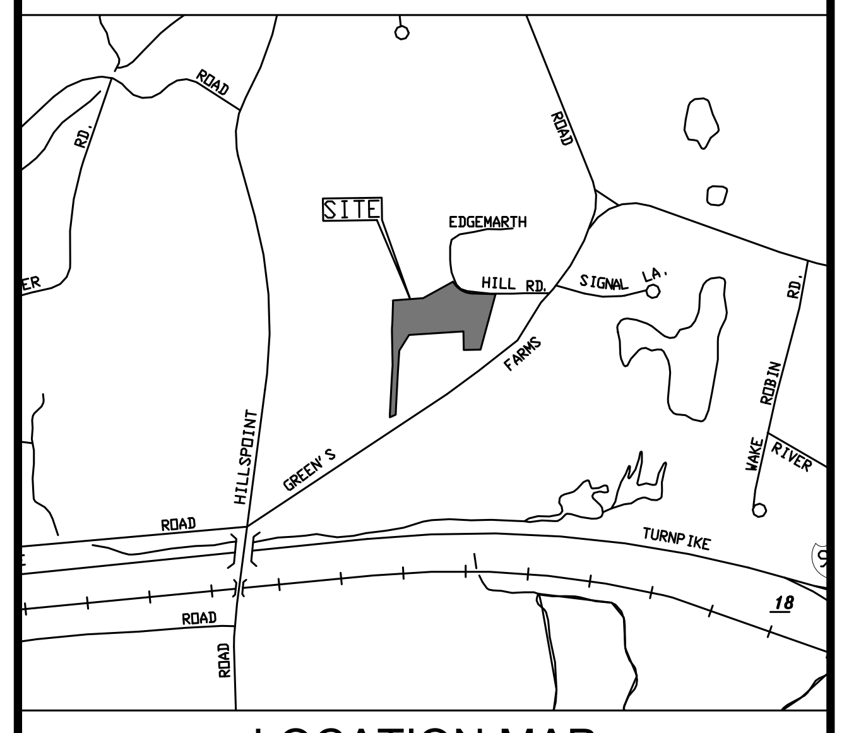
TOTAL SITE AREA: 1.698 AC; 73,977 SF

LOT AREA / COVERAGE CALCULATIONS

1.	TOTAL LOT AREA (GROSS)		73,977 SF
2.	ABOVE GROUND UTILITY EASEMENTS	0	
3.	STREETS, ROADS, & ACCESSWAYS	10497	
4.	OTHER EXCLUSIVE SURFACE EASEMENTS	0	
5.	TOTAL EASEMENTS & ROADS (SUM OF LINES 2, 3, AND 4)		10497 SF
6.	WETLAND AREAS	0	
7.	STEEP SLOPES >25%	4167	
8.	TOTAL WETLANDS & STEEP SLOPES (SUM OF LINES 6 & 7)	4167	
9.	WETLANDS / SLOPES REDUCTION	0.80 x LINE 8	3334 SF
10.	BASE LOT AREA (LINE 1 MINUS LINES 5 AND 9)		60,146 SF
	ALLOWABLE LOT COVERAGE		
11.	BASE LOT AREA x 25%	LINE 10 x 0.25	15,037 SF
	EXISTING LOT COVERAGE		
12.	VACANT LOT	0 SF	
13.		SUM OF LINE 12	0,000 SF
	PROPOSED LOT COVERAGE		
14.	PROPOSED RESIDENCE & PORCH	3148 SF	
	PROPOSED DRIVEWAY	3556 SF	
15.		SUM OF LINE 14	6,704 SF
16.	**ALLOWABLE LOT COVERAGE**	25%	15,037 SF
17.	**EXISTING LOT COVERAGE**	0.0%	0,000 SF
18.	**PROPOSED LOT COVERAGE**	11.1%	6,704 SF

NOTES:

N



LOCATION MAP
(NTS)

REVISION DATE	ISSUE

LANDTECH

SITE/CIVIL • ENVIRONMENTAL • SURVEYING • PLANNING
518 RIVERSIDE AVENUE • WESTPORT, CT 06880 • 203-454-2110
HELLO@LANDTECHCONSULT.COM • WWW.LANDTECHCONSULT.COM

PREPARED FOR:
SCOTT MARONA

PROJECT LOCATION:
11 EDGEMARTH HILL ROAD
WESTPORT, CT

PROJECT TITLE:
SITE IMPROVEMENTS FOR A
PROPOSED 2 LOT SUBDIVISION

DRAWING TITLE:
SITE DEVELOPMENT PLAN

PROJECT No. 23051-01

DATE: 5/7/2024
DESIGNED BY: SM
CHECKED BY: AS

SCALE: 1" = 40'
IN FEET
0 40 80 120

PROJECT STATUS:
DESIGN DEVELOPMENT
NOT FOR CONSTRUCTION

ANDY SOUMELIDIS 27803

C-1.0

T:\1. ACTIVE PROJECTS\23051-01 MARONA - 11 EDGEMARTH HILL RD., WESTPORT\DRAWINGS\SUBDIVISION PLAN\11 EDGEMARTH HILL ROAD - SITE PLAN.DWG

LANDTECH

GENERAL SEPTIC NOTES

1. THE PROPOSED SEPTIC SYSTEM IS TO BE CONSTRUCTED TO CONFORM TO THE LATEST REVISION OF THE STATE OF CONNECTICUT PUBLIC HEALTH CODE.

2. IT IS THE RESPONSIBILITY OF THE INSTALLER TO CALL "CALL BEFORE YOU DIG," 1-800-922-4455, TWO FULL WORKING DAYS PRIOR TO ANY EXCAVATION WORK ON THE PROPERTY.

3. IT IS THE RESPONSIBILITY OF THE INSTALLER TO KEEP THE LOCAL HEALTH DEPARTMENT AND THE ENGINEER OF RECORD INFORMED OF CONSTRUCTION PROGRESS. NO DEVIATIONS FROM THE APPROVED DESIGN PLAN SHALL BE ALLOWED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER AND SANITARIAN. ENGINEER AND SANITARIAN WILL BE CONTACTED IF SOIL CONDITIONS OTHER THAN THOSE SHOWN ON PLAN ARE ENCOUNTERED AND WORK WILL BE HALTED PENDING REVIEW OF THOSE CONDITIONS.

4. THE INSTALLATION OF THE SEPTIC SYSTEM SHALL BE UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER.

5. ELEVATIONS SHOWN REFER TO THE INVERT (FLOW LINE) OF THE PROPOSED LEACHING SYSTEM UNLESS NOTED OTHERWISE.

6. UTILIZATION OF EXISTING SEPTIC TANK WILL BE BASED UPON THE INTEGRITY OF THE TANK AND BAFFLES DETERMINED PRIOR TO LEACHING SYSTEM CONSTRUCTION.

7. PROVIDE A 1,500 GALLON, TWO COMPARTMENT SEPTIC TANK MADE OF CONCRETE WITH A MINIMUM 4,000 PSI CONCRETE PER ASTM STANDARDS. SEPTIC TANK ACCESS SHALL BE OUTFITTED WITH 24" DIAMETER RISERS TO FINISHED GRADE WHERE SOIL COVER OVER THE TANK EXCEEDS 12 INCHES. SEAL ALL JOINTS WATERTIGHT. ALL TANK INLET AND OUTLET PIPING SHALL BE SEALED WITH A POLYETHYLENE GASKET, "POLYLOK" OR EQUIVALENT. TANK TO BE WATERTIGHT.

8. ALL RISER ASSEMBLIES UTILIZED SHALL BE EQUIPPED WITH SECONDARY SAFETY LIDS OR DEVICES EVEN IF THE RISER COVER WEIGHS MORE THAN 59 LBS. SECONDARY SAFETY DEVICES SHALL BE IN ACCORDANCE WITH THE STATE OF CONNECTICUT PUBLIC HEALTH CODE, LATEST REVISION.

9. SEPTIC TANK BAFFLES SHALL CONFORM TO TECHNICAL STANDARDS OF THE PUBLIC HEALTH CODE.

10. SEPTIC TANK SHALL HAVE AN APPROVED NON-BYPASS EFFLUENT FILTER AT THE OUTLET.

11. ALL PIPING BETWEEN HOUSE AND SEPTIC TANK SHALL BE FOUR INCHES IN DIAMETER WITH A MINIMUM SLOPE OF ¼" PER FOOT OR SIX INCHES IN DIAMETER WITH A MINIMUM SLOPE OF ⅛" PER FOOT. PIPE SHALL BE LAID WITH TIGHT JOINTS AND IN A STRAIGHT LINE WITH UNIFORM GRADES. ACCESSIBLE MANHOLES OR SURFACE CLEANOUTS SHALL BE PROVIDED AT ONE OR MORE CUMULATIVE CHANGES OF DIRECTION EXCEEDING 45 DEGREES OR WHERE BUILDING SEWER EXCEEDS 75 FEET IN LENGTH. MATERIALS TO BE ALLOWED BY TECHNICAL STANDARDS.

12. ALL PIPE USED BETWEEN SEPTIC TANK AND LEACHING AREA SHALL BE 4" SDR-35 PVC PIPE WITH WATERTIGHT JOINTS OR EQUIVALENT ALLOWED BY TECHNICAL STANDARDS. PIPE SHALL BE SET ON A MINIMUM SLOPE OF ⅛" PER FOOT.

13. DISTRIBUTION BOXES ARE TO BE SET ON A STABLE FOOTING OF 12" MINIMUM DEPTH OF 1" CRUSHED STONE.

14. ALL FILTER FABRIC SHALL BE 1.5 OZ./YD. (ASTM D-5261), PERMEABILITY OF 1.0/SEC. (AS TM D-4491) AND A TRAPEZOID TEAR OF 15 LBS. (ASTM D-4533) OR EQUIVALENT.

15. NO FOOTING DRAINS OR OTHER GROUNDWATER DRAINS SHALL BE INSTALLED WITHIN 25' OF PROPOSED SEPTIC SYSTEM OR WITHIN 50 FEET OF SEPTIC SYSTEM IF DRAIN IS DOWN GRADIENT.

16. PRIOR TO CONSTRUCTION ACTIVITIES THE LEACHING SYSTEM AREAS SHALL BE ROPED OFF OR OTHERWISE DELINEATED SO AS TO KEEP CONSTRUCTION TRAFFIC OFF THE SEPTIC AREA.

17. STRIP AND STOCKPILE TOPSOIL AND REMOVE BOULDERS PRIOR TO PLACING FILL. ALL TOPSOIL MUST BE REMOVED IN FILL SYSTEMS.

18. GRAVEL FILL TO BE DUMPED AT THE EDGE OF PREPARED LEACHING AREA AND PUSHED ONTO HARROWED SURFACE WITH TRACK MACHINE IN 12" (MAX) LIFTS. GRAVEL TO BE COMPACTED TO 90-95% STANDARDS PROCTOR DENSITY - ASTM D-698. THE ENGINEER OF RECORD AND THE HEALTH DEPARTMENT MUST APPROVE THE SELECT GRAVEL PRIOR TO ITS PLACEMENT.

19. SELECT FILL SHALL BE COMPRISED OF CLEAN SAND, OR SAND AND GRAVEL, FREE FROM ORGANIC MATTER AND FOREIGN SUBSTANCES. SELECT FILL SHALL MEET THE FOLLOWING REQUIREMENTS:

    A. THE SELECT FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN THE 3 INCH SIEVE.

    B. UP TO 45% OF THE DRY WEIGHT OF THE REPRESENTATIVE SAMPLE MAY BE RETAINED ON THE #4 SIEVE.

    C. THE MATERIAL THAT PASSES THE #4 SIEVE IS TO BE REWEIGHED AND A SECOND SIEVE ANALYSIS COMPLETED.

    D. THE REMAINING SAMPLE SHALL MEET THE FOLLOWING GRADATION CRITERIA.

SIEVE SIZE	PERCENT PASSING	
	WET SIEVE	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%.

20. NON-SELECT FILL SHALL BE A CLEAN LOAM OR BETTER FREE OF ORGANIC MATTER.

21. THIS SYSTEM IS NOT DESIGNED FOR BACKWASH FROM A WATER SOFTENING SYSTEM OR THE OUTFLOW FROM A GARBAGE DISPOSAL OR TUB (BATHTUB, WHIRLPOOL, JACUZZI, ETC.) IN EXCESS OF 100 GALLONS.

22. MEASUREMENTS FOR AS-BUILT DRAWING TO BE COMPLETED BY PROFESSIONAL ENGINEER PRIOR TO BACKFILLING.

23. FINAL GRADING TO BE COMPLETED IMMEDIATELY AFTER INSPECTION AND COMPLETION OF MEASUREMENTS FOR AS-BUILT DRAWING.

24. THERE ARE NO WELLS WITHIN 75' OF PROPOSED SEPTIC SYSTEM.

25. THIS DESIGN CONFORMS TO APPLICABLE CODES AND ACCEPTED PRACTICE. NO OTHER WARRANTY IS EXPRESSED OR IMPLIED.

26. LAND-TECH CONSULTANTS, INC., ASSUMES NO RESPONSIBILITY FOR SEPTIC SYSTEM SITE PREPARATION, LOCATION OR INVERT ELEVATIONS IN COMPLIANCE WITH THE APPROVED PLAN, UNLESS IT SUPERVISES EACH PHASE OF SYSTEM INSTALLATION.

27. BASED ON A VISUAL INSPECTION OF NEIGHBORING PROPERTIES AND A REVIEW OF AVAILABLE RECORDS, NO PART OF THE PROPOSED SEPTIC SYSTEM IS WITHIN THE REQUIRED SEPARATION DISTANCE FROM A WATER SUPPLY WELL, OR CLOSED LOOP GEOTHERMAL SYSTEM BOREHOLE/TRENCH AS DEFINED IN TABLE 1 OF THE "TECHNICAL STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL SYSTEMS", LATEST REVISION.

MLSS CALCULATION - PRIMARY LOT X

HYDRAULIC FACTOR (HF):
HYDRAULIC GRADIENT AT BOTH ENDS OF SYSTEM:
(72.0 - 52.0) / 50 = 40.0%; (72.1 - 52.0) / 50 = 40.2%
AVG. HYDRAULIC GRADIENT = (40.0 + 40.2) / 2 =40.1%
HYDRAULIC GRADIENT = >15.0%

AVERAGE DEPTH OF TEST HOLES WITHIN THE SYSTEM:
DTH-1 = 60", DTH-3 = 48"
(60 + 48) / 2 = 54"
DEPTH OF DOWNGRADIENT TEST HOLE:
DTH-2 = 34"
AVERAGE DEPTH OF RESTRICTIVE LAYER = (54 + 34) / 2 = 44"
HF = 14

FLOW FACTOR (FF):
NUMBER OF BEDROOMS = 8
FF = 2.75

PERCOLATION FACTOR (PF):
PERCOLATION RATE = 1" IN 10.0 MINUTES
PF = 1.0

MLSS = HF X FF X PF
MLSS = 14 X 2.75 X 1.0
MLSS = 38.5 FEET

PRIMARY LEACHING SYSTEM SPREAD = 50 FEET

SEPTIC SYSTEM DESIGN CALCULATIONS - LOT X

\# OF BEDROOMS = 8
PERCOLATION RATE = 1 INCH LESS THAN 10.1 MINUTES USED FOR DESIGN
(OBSERVED PERCOLATION RATE OF 1" IN 10.0 MINUTES)
SQUARE FEET OF LEACHING AREA REQUIRED = 907.5 SF
1,625 GAL. SEPTIC TANK REQUIRED

PROPOSED SEPTIC SYSTEM LEACHING FIELD
50 LF OF ELJEN MANTIS DW-100
50 LF X 20.0 SF/LF = 1,000 SF OF LEACHING AREA PROVIDED
2,000 GAL. SEPTIC TANK PROVIDED

PROPOSED RESERVE AREA
50 LF OF ELJEN MANTIS DW-100
50 LF X 20.0 SF/LF = 1,000 SF OF LEACHING AREA PROVIDED

INVERT ELEVATIONS - LOT X

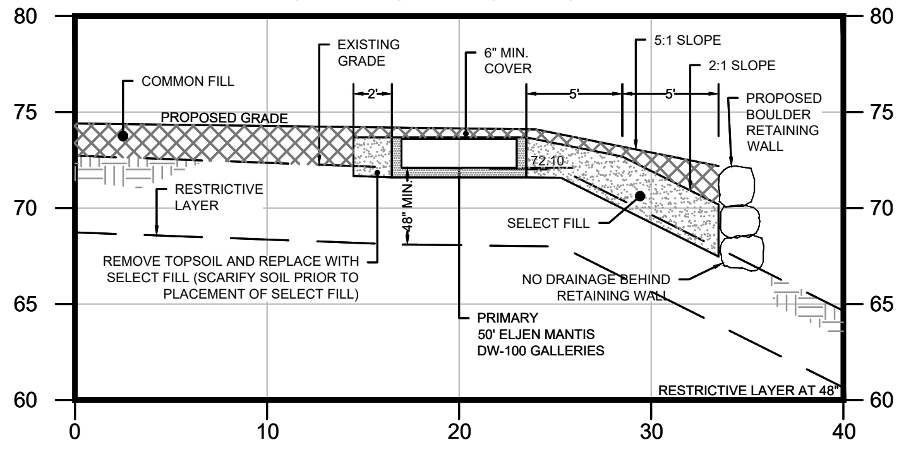
HOUSE SEWER AT FOUNDATION = 74.30 MIN.

SEPTIC TANK
INLET = 73.55
OUTLET = 73.30

BAFFLED DISTRIBUTION BOX
INLET = 73.25
LATERALS = 73.15

LEACHING GALLERY
INVERT = 73.10
BOTTOM = 72.10

LOT X - SEPTIC PROFILE



SECTION A-A
SCALE: 1" = 10'

MLSS CALCULATION - PRIMARY LOT Y

HYDRAULIC FACTOR (HF):
HYDRAULIC GRADIENT AT BOTH ENDS OF SYSTEM:
(57.3 - 48.3) / 50 = 18.0%; (57.1 - 46.0) / 50 = 22.2%
AVG. HYDRAULIC GRADIENT = (18.0 + 22.2) / 2 =20.1%
HYDRAULIC GRADIENT = >15.0%

AVERAGE DEPTH OF TEST HOLES WITHIN THE SYSTEM:
DTH-12 = 69" (USE 60"), DTH-13 = 65" (USE 60")
(60 + 60) / 2 = 60"
DEPTH OF DOWNGRADIENT TEST HOLE:
DTH-14 = 24", DTH-15 = 43", DTH-16 = 68" (USE 60")
(24 + 43 + 60) / 3 = 42.33
AVERAGE DEPTH OF RESTRICTIVE LAYER = (60 + 42.33) / 2 = 51.17"
HF = 10

FLOW FACTOR (FF):
NUMBER OF BEDROOMS = 8
FF = 2.75

PERCOLATION FACTOR (PF):
PERCOLATION RATE = 1" IN 20.0 MINUTES
PF = 1.25

MLSS = HF X FF X PF
MLSS = 10 X 2.75 X 1.25
MLSS = 34.375 FEET

PRIMARY LEACHING SYSTEM SPREAD = 65 FEET

SEPTIC SYSTEM DESIGN CALCULATIONS - LOT Y

\# OF BEDROOMS = 8
PERCOLATION RATE = 1 INCH 10.1 - 20.0 MINUTES USED FOR DESIGN
(OBSERVED PERCOLATION RATE OF 1" IN 20.0 MINUTES)
SQUARE FEET OF LEACHING AREA REQUIRED = 1237.5 SF
1,625 GAL. SEPTIC TANK REQUIRED

PROPOSED SEPTIC SYSTEM LEACHING FIELD
65 LF OF ELJEN MANTIS DW-100
65 LF X 20.0 SF/LF = 1,300 SF OF LEACHING AREA PROVIDED
2,000 GAL. SEPTIC TANK PROVIDED

PROPOSED RESERVE AREA
65 LF OF ELJEN MANTIS DW-100
65 LF X 20.0 SF/LF = 1,300 SF OF LEACHING AREA PROVIDED

INVERT ELEVATIONS - LOT Y

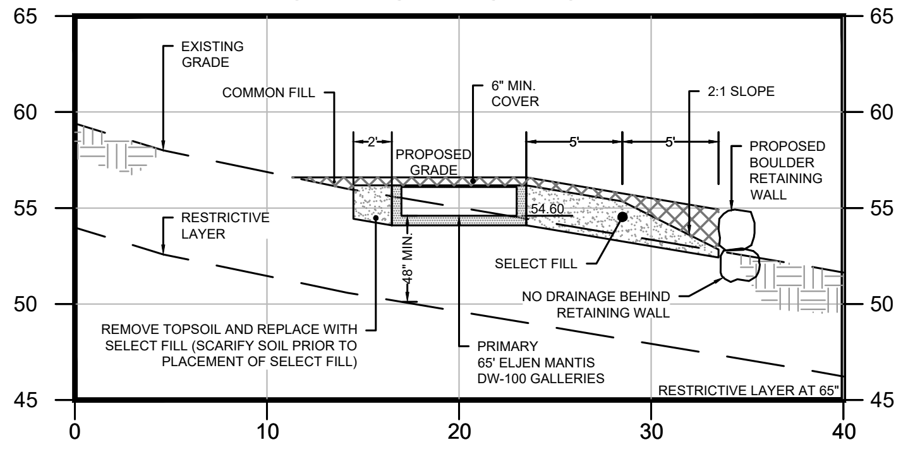
HOUSE SEWER AT FOUNDATION = 74.30 MIN.

SEPTIC TANK
INLET = 56.30
OUTLET = 56.05

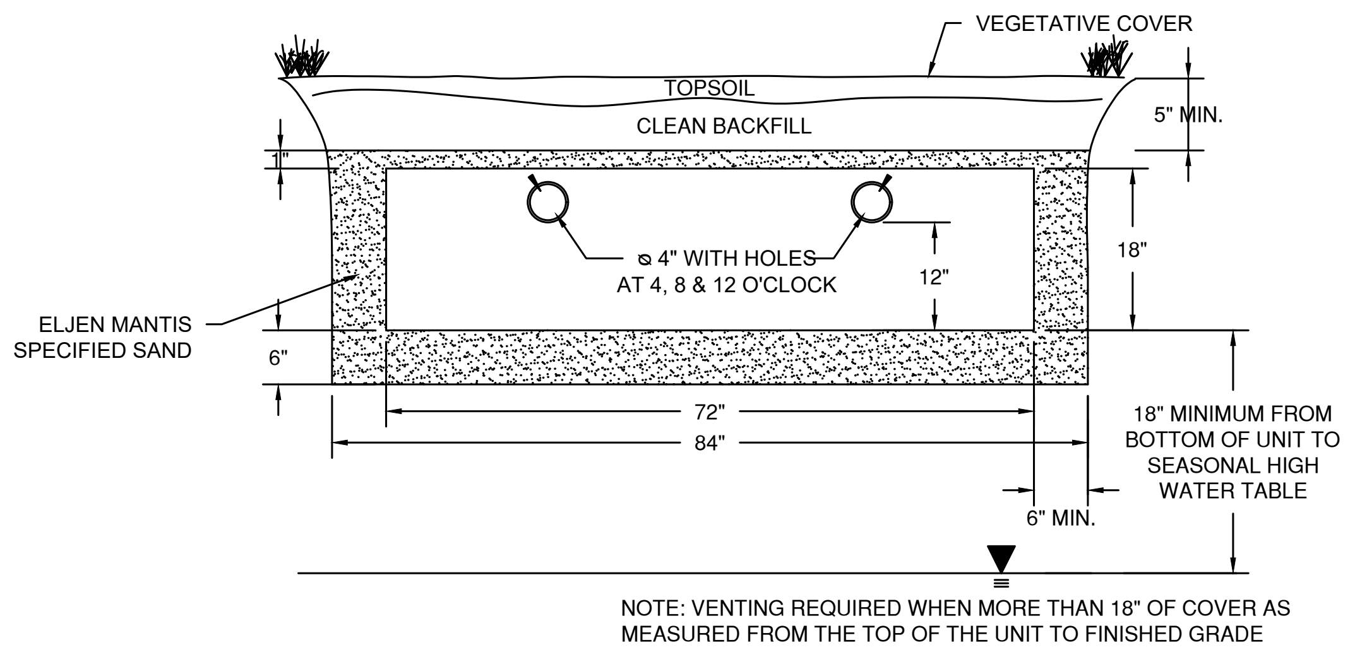
BAFFLED DISTRIBUTION BOX
INLET = 55.75
LATERALS = 55.65

LEACHING GALLERY
INVERT = 55.60
BOTTOM = 54.60

LOT Y - SEPTIC PROFILE

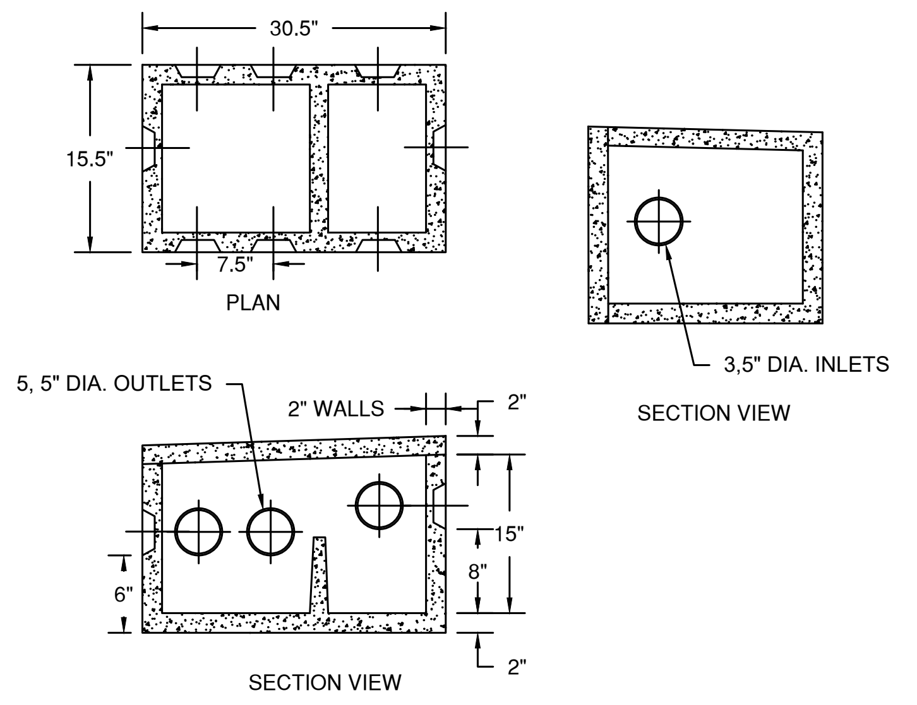


SECTION B-B
SCALE: 1" = 10'

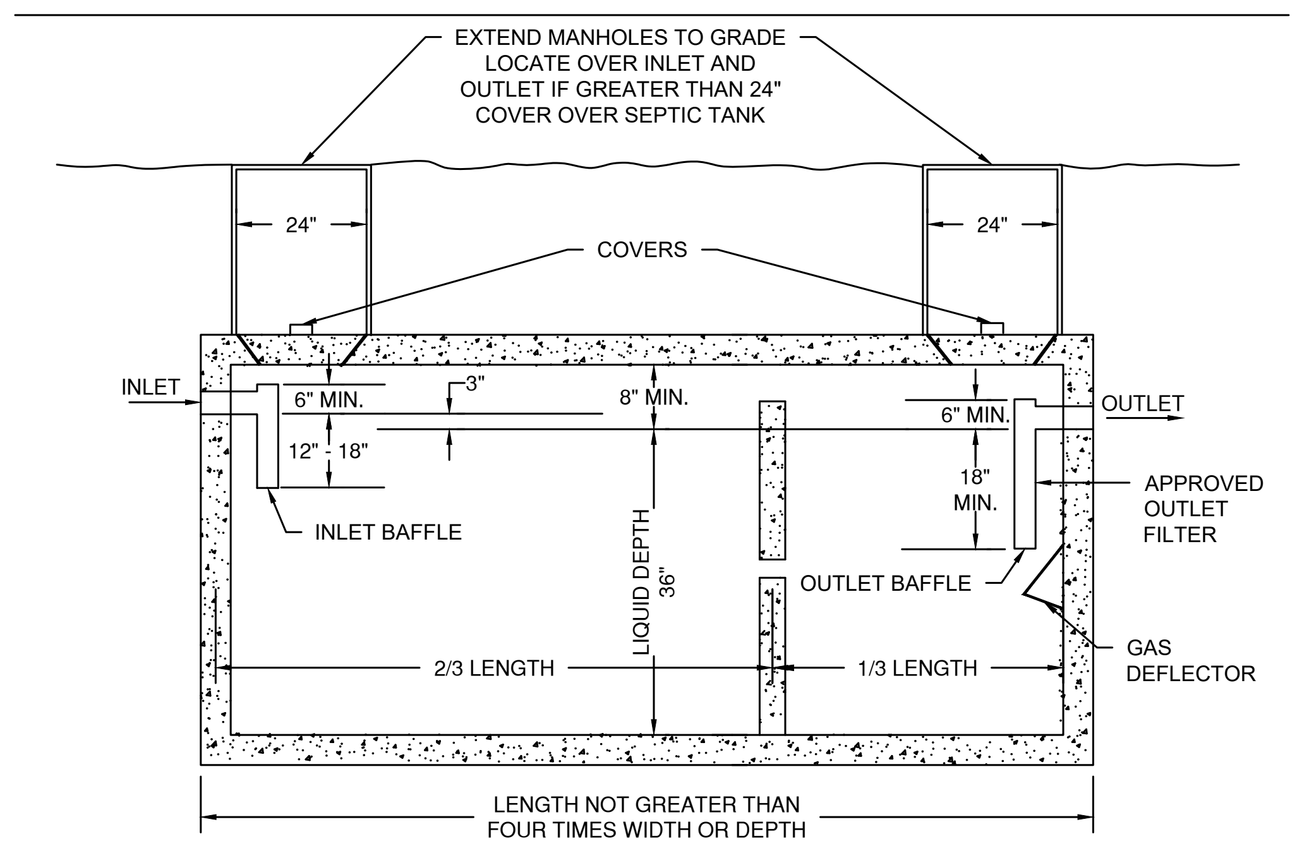


NOTE: VENTING REQUIRED WHEN MORE THAN 18" OF COVER AS MEASURED FROM THE TOP OF THE UNIT TO FINISHED GRADE

ELJEN MANTIS DW-100 TYPICAL CROSS SECTION
(NTS)

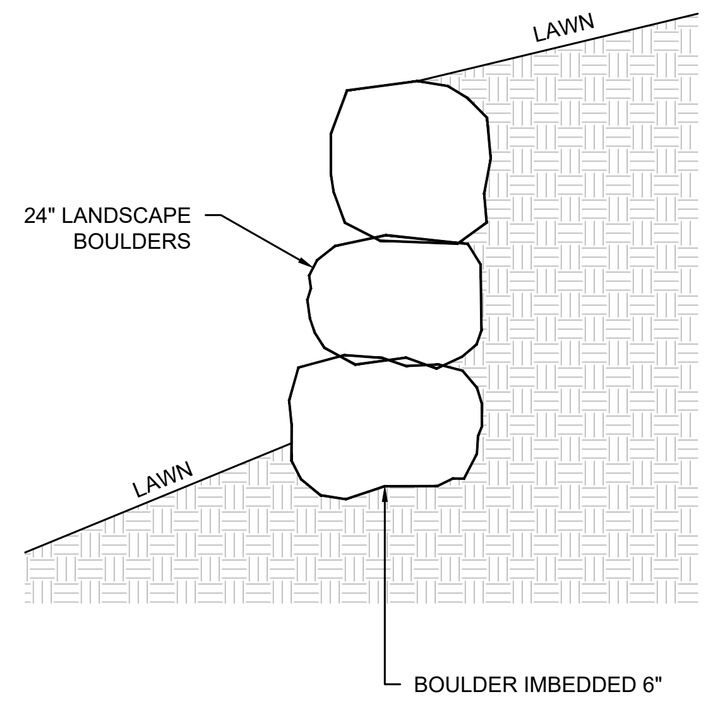


DISTRIBUTION BOX WITH BAFFLE
(NTS)



SEPTIC TANK
(NTS)

SEPTIC TANK DIMENSIONS			
CAPACITY (GALLONS)	LENGTH	WIDTH	HEIGHT
1,000	8'-2"	4'-6"	5'-11"
1,250	9'-6.5"	5'-6.5"	5'-5"
1,500	12'-0"	6-6"	4'-8"
2,000	9'-7.75"	5'-7.75"	7'-7"
2,500	9'-8"	5'-8"	9'



BOULDER WALL SECTION
(NTS)

PERCOLATION TEST DATA

Perc Hole 1 — Date: 12/1/2023
Depth: 30 in. — Presoak: 1 hr

Time	Depth (in.)	Drop (in.)	Interval (min.)	Rate (min./in.)
10:00	1.00			
10:10	10.00	9.00	00:10	1.11
10:20	13.00	3.00	00:10	3.33
10:30	15.50	2.50	00:10	4.00
10:40	16.50	1.00	00:10	10.00
10:50	17.50	1.00	00:10	10.00
11:00	19.00	1.50	00:10	6.67

Final Rate: 1" in 10.00 minutes

Perc Hole 2 — Date: 12/1/2023
Depth: 30 in. — Presoak: 1 hr

Time	Depth (in.)	Drop (in.)	Interval (min.)	Rate (min./in.)
10:05	1.00			
10:15	10.50	9.50	00:10	1.05
10:25	14.00	3.50	00:10	2.86
10:35	16.00	2.00	00:10	5.00
10:45	18.00	2.00	00:10	5.00
10:55	19.00	1.00	00:10	10.00
11:05	20.00	1.00	00:10	10.00

Final Rate: 1" in 10.00 minutes

Perc Hole 3 — Date: 12/1/2023
Depth: 30 in. — Presoak: 1 hr

Time	Depth (in.)	Drop (in.)	Interval (min.)	Rate (min./in.)
10:20	1.00			
10:30	3.00	2.00	00:10	5.00
10:40	6.00	3.00	00:10	3.33
10:50	6.50	0.50	00:10	20.00
11:00	8.00	1.50	00:10	6.67
11:10	9.00	1.00	00:10	10.00
11:20	10.00	1.00	00:10	10.00

Final Rate: 1" in 20.00 minutes

Perc Hole 4 — Date: 5/2/2024
Depth: 30 in. — Presoak: 1 hr

Time	Depth (in.)	Drop (in.)	Interval (min.)	Rate (min./in.)
10:25	8.00			
10:35	12.00	4.00	00:10	2.50
10:45	15.50	3.50	00:10	2.86
10:55	19.00	3.50	00:10	2.86
11:05	21.00	2.00	00:10	5.00
11:15	23.00	2.00	00:10	5.00
11:25	24.00	1.00	00:10	10.00

Final Rate: 1" in 10.00 minutes

TEST HOLE DATA

SOIL TEST CONDUCTED ON DECEMBER 1, 2023

TEST HOLE 1

0 – 9"	TOPSOIL
9 – 42"	LIGHT BROWN SAND & SILT
42 – 60"	BROWN SILT
	ROOTS TO 47"
	NO MOTTLING, NO GROUNDWATER, LEDGE AT 60"
	RESTRICTIVE LAYER AT 60"

TEST HOLE 2

0 – 12"	TOPSOIL
12 – 42"	BROWN SILT
	ROOTS TO 30"
	NO MOTTLING, NO GROUNDWATER, LEDGE AT 34"
	RESTRICTIVE LAYER AT 34"

TEST HOLE 3

0 – 10"	TOPSOIL
10 – 30"	LIGHT BROWN SAND & SILT
30 – 48"	BROWN SILT
	ROOTS TO 32"
	NO MOTTLING, NO GROUNDWATER, LEDGE AT 48"
	RESTRICTIVE LAYER AT 48"

TEST HOLE 4

0 – 11"	TOPSOIL
11 – 33"	BROWN SILT
	ROOTS TO 32"
	NO MOTTLING, NO GROUNDWATER, LEDGE AT 33"
	RESTRICTIVE LAYER AT 33"

TEST HOLE 5

0 – 12"	TOPSOIL
12 – 32"	BROWN SAND & SILT
32 – 84"	TAN SAND
	ROOTS TO 48"
	NO MOTTLING, NO GROUNDWATER, LEDGE AT 84"
	RESTRICTIVE LAYER AT 84"

TEST HOLE 6

0 – 10"	TOPSOIL
10 – 30"	LIGHT BROWN SAND & SILT
30 – 64"	BROWN SILT
	ROOTS TO 48"
	NO MOTTLING, NO GROUNDWATER, LEDGE AT 64"
	RESTRICTIVE LAYER AT 64"

TEST HOLE 7

0 – 12"	TOPSOIL
12 – 41"	BROWN SAND & SILT
41 – 80"	TAN SAND
	ROOTS TO 42"
	NO MOTTLING, NO GROUNDWATER, LEDGE AT 80"
	RESTRICTIVE LAYER AT 80"

TEST HOLE 8

0 – 12"	TOPSOIL
12 – 35"	BROWN SAND & SILT
35 – 89"	TAN SAND
	ROOTS TO 68"
	NO MOTTLING, NO GROUNDWATER, LEDGE AT 89"
	RESTRICTIVE LAYER AT 89"

TEST HOLE 9

0 – 12"	TOPSOIL
12 – 30"	LIGHT BROWN SAND & SILT
30 – 55"	BROWN SILT
	ROOTS TO 35"
	NO MOTTLING, NO GROUNDWATER, LEDGE AT 55"
	RESTRICTIVE LAYER AT 55"

TEST HOLE 10

0 – 20"	TOPSOIL
20 – 48"	ORANGE BROWN SILT
48 – 88"	LIGHT BROWN SILT
	ROOTS TO 32"
	MOTTLING AT 48", NO GROUNDWATER, LEDGE AT 88"
	RESTRICTIVE LAYER AT 48"

TEST HOLE 11

0 – 14"	TOPSOIL
14 – 62"	TAN SAND
62 – 106"	GREY MOTTLED SILT
	ROOTS TO 37"
	MOTTLING AT 62", NO GROUNDWATER, NO LEDGE
	RESTRICTIVE LAYER AT 62"

TEST HOLE 12

0 – 10"	TOPSOIL
10 – 69"	TAN SAND & SILT
	ROOTS TO 10"
	NO MOTTLING, NO GROUNDWATER, LEDGE AT 69"
	RESTRICTIVE LAYER AT 69"

TEST HOLE 13

0 – 21"	TOPSOIL
21 – 65"	TAN SAND & SILT
	ROOTS TO 21"
	NO MOTTLING, NO GROUNDWATER, LEDGE AT 65"
	RESTRICTIVE LAYER AT 65"

TEST HOLE 14

0 – 10"	TOPSOIL
10 – 50"	TAN SAND & SILT
	NO MOTTLING, NO GROUNDWATER, LEDGE AT 24"
	RESTRICTIVE LAYER AT 24"

TEST HOLE 15

0 – 12"	TOPSOIL
12 – 28"	ORANGE BROWN SILT
28 – 43"	TAN SAND & SILT
	NO MOTTLING, NO GROUNDWATER, LEDGE AT 43"
	RESTRICTIVE LAYER AT 43"

TEST HOLE 16

0 – 8"	TOPSOIL
8 – 16"	ORANGE BROWN SILT
16 – 68"	TAN SAND & SILT
	NO MOTTLING, NO GROUNDWATER, LEDGE AT 68"
	RESTRICTIVE LAYER AT 68"

TEST HOLE 17

0 – 9"	TOPSOIL
9 – 20"	ORANGE BROWN SILT
20 – 43"	TAN SAND & SILT
	NO MOTTLING, NO GROUNDWATER, LEDGE AT 43"
	RESTRICTIVE LAYER AT 43"

TEST HOLE 18

0 – 11"	TOPSOIL
11 – 32"	ORANGE BROWN SILT
32 – 62"	TAN SAND & SILT
	NO MOTTLING, NO GROUNDWATER, LEDGE AT 462"
	RESTRICTIVE LAYER AT 62"

REVISION DATE	ISSUE

LANDTECH
SITE/CIVIL • ENVIRONMENTAL • SURVEYING • PLANNING
518 RIVERSIDE AVENUE • WESTPORT, CT 06880 • 203-454-2110
HELLO@LANDTECHCONSULT.COM • WWW.LANDTECHCONSULT.COM

PREPARED FOR:
SCOTT MARONA

PROJECT LOCATION:
11 EDGEMARTH HILL ROAD
WESTPORT, CT

PROJECT TITLE:
SITE IMPROVEMENTS FOR A
PROPOSED 2 LOT SUBDIVISION

DRAWING TITLE:
NOTES AND DETAILS

PROJECT No. 23051-01
DATE: 5/7/2024
DESIGNED BY: SM
CHECKED BY: AS
SCALE: N.T.S.

PROJECT STATUS:
DESIGN DEVELOPMENT
NOT FOR CONSTRUCTION

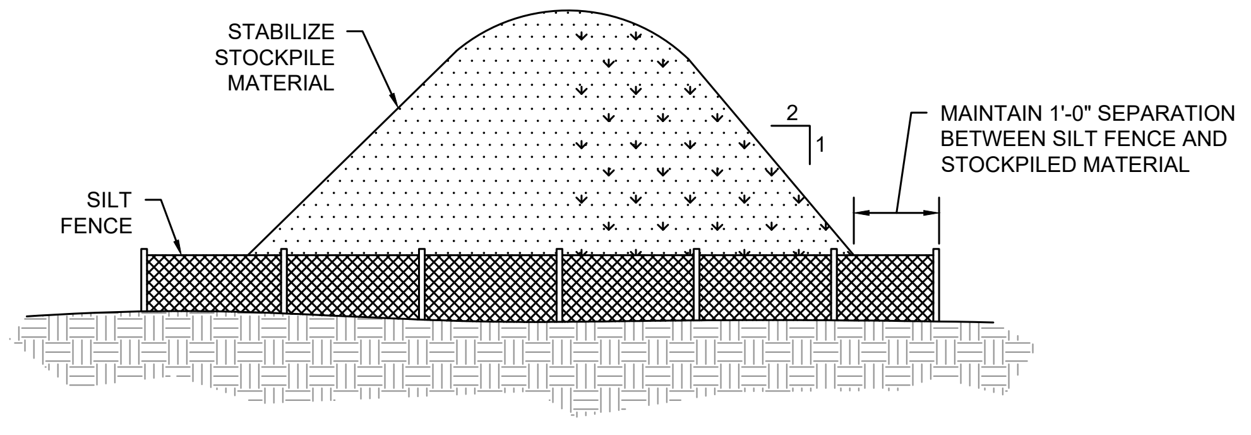
ANDY SOUMELIDIS
27803

C-2.0

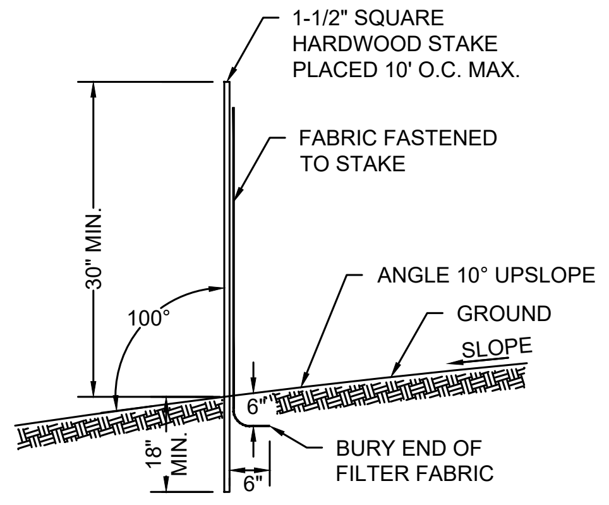
LANDTECH

GENERAL EROSION AND SEDIMENT CONTROL NOTES

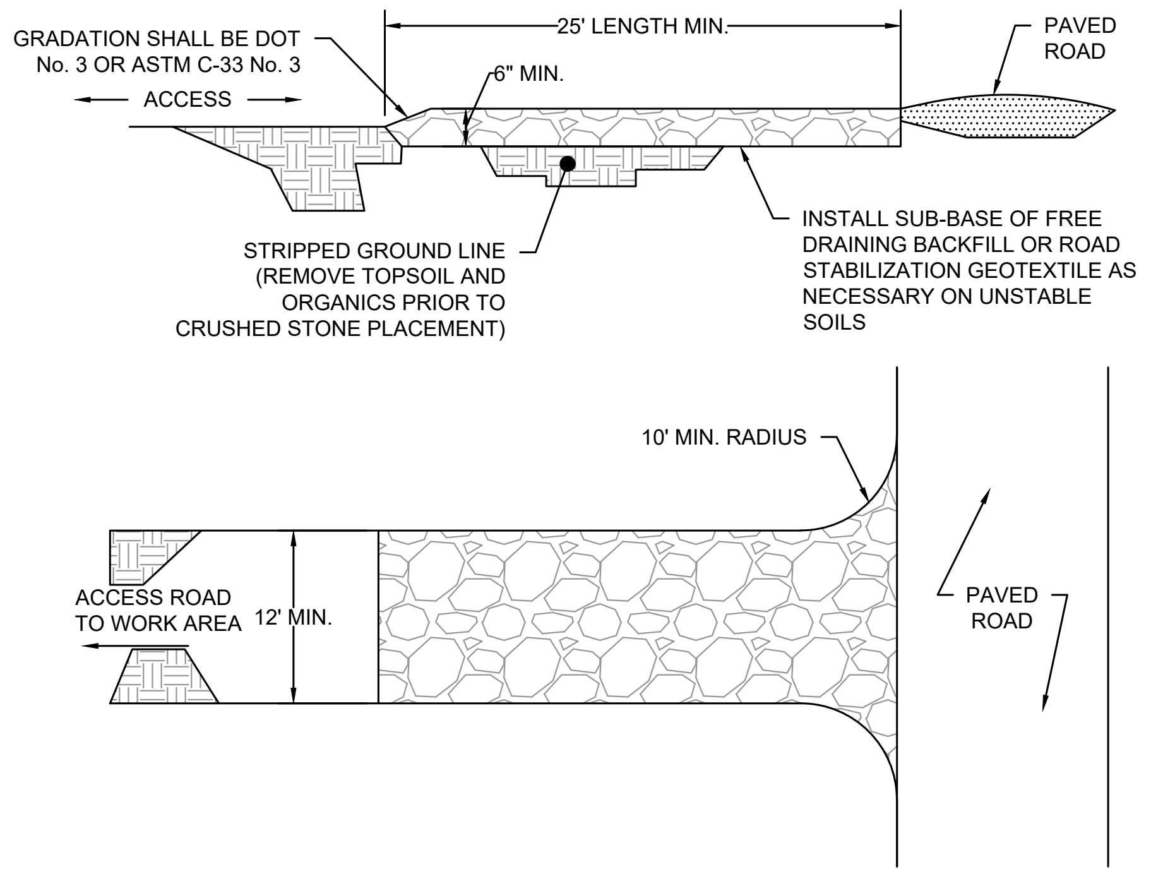
1. LAND DISTURBANCE WILL BE KEPT TO A MINIMUM; RESTABILIZATION WILL BE SCHEDULED AS SOON AS POSSIBLE.
2. SILT FENCE WILL BE INSTALLED ALONG THE TOE OF ALL CRITICAL CUT AND FILL SLOPES, SOIL STOCKPILE AREAS, AND IN THOSE AREAS SHOWN ON THE PLAN.
3. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE STATE OF CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL. 2002.
4. EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED PRIOR TO LAND DISTURBANCE WHENEVER POSSIBLE.
5. ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE PROPERLY MAINTAINED UNTIL STABILIZATION HAS BEEN ACHIEVED.
6. ADDITIONAL CONTROL MEASURES WILL BE INSTALLED DURING THE CONSTRUCTION PERIOD IF NECESSARY OR REQUIRED. A MINIMUM OF 50 FEET OF SILT FENCE SHALL BE STORED AT THE SITE FOR EMERGENCY USE.
7. ANY EXCAVATIONS THAT MUST BE DEWATERED WILL BE PUMPED INTO A 15'x15' DIRTBAG ON-SITE. THE INLETS OF ALL PUMPS ARE TO BE FLOATED A MINIMUM OF 24 INCHES OFF THE BOTTOM OF THE EXCAVATION. THE CONTRACTOR SHALL KEEP A MINIMUM OF (2) 15'x15' DIRTBAGS ON-SITE THROUGHOUT THE EXCAVATION OF PROPOSED FOUNDATIONS.
8. WATER AND CALCIUM CHLORIDE SHALL BE APPLIED TO UNPAVED ACCESSWAYS TO PREVENT WIND GENERATED SEDIMENTS AND DUST.
9. DEBRIS AND OTHER WASTES RESULTING FROM EQUIPMENT MAINTENANCE AND CONSTRUCTION ACTIVITIES WILL NOT BE DISCARDED ON-SITE.
10. SEDIMENT REMOVED FROM CONTROL STRUCTURES WILL BE DISPOSED OF IN A MANNER WHICH IS CONSISTENT WITH INTENT OF THE PLAN.
11. SILT FENCES SHALL HAVE SEDIMENT REMOVED WHEN THE DEPTH OF THE SEDIMENT IS EQUAL TO ⅓ TO ½ THE HEIGHT OF THE FENCE. FENCES SHALL BE PROPERLY INSTALLED AND RIPPED FENCE OR BROKEN POSTS REPAIRED AS SOON AS PRACTICAL.
12. ANTI-TRACKING PADS AND GRAVEL CHECK DAMS SHALL BE REPLACED WHEN VOID SPACES ARE FULL OR STRUCTURES ARE BREACHED, AS APPLICABLE.
13. TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AND THE SOIL SURFACE STABILIZED WHEN CONSTRUCTION IS COMPLETE AND THE SOIL SURFACES ARE PERMANENTLY STABILIZED. STRUCTURAL COMPONENTS SHALL BE CLEANED OF ALL SEDIMENT UPON COMPLETION OF CONSTRUCTION.
14. THE OWNER IS ASSIGNED THE RESPONSIBILITY FOR IMPLEMENTING THIS EROSION AND SEDIMENT CONTROL PLAN. THIS RESPONSIBILITY INCLUDES INSTALLATION AND MAINTENANCE OF CONTROL MEASURES. INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN, NOTIFYING THE PLANNING AND ZONING COMMISSION OF ANY TRANSFER OF THIS RESPONSIBILITY, AND FOR CONVEYING A COPY OF THE EROSION AND SEDIMENT PLAN IF AND WHEN THE TITLE OF LAND IS TRANSFERRED.



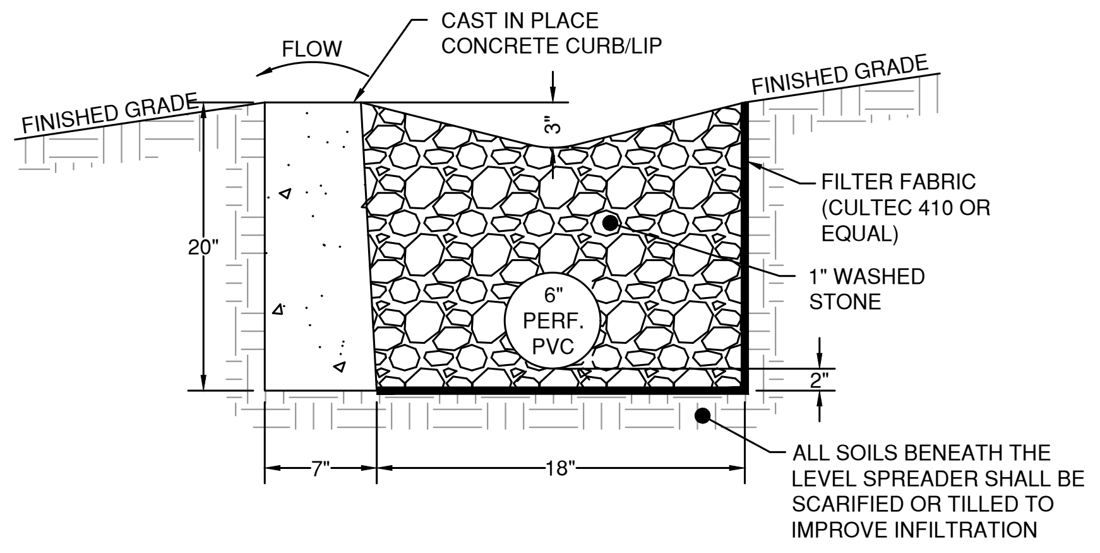
STOCKPILE DETAIL
(NTS)



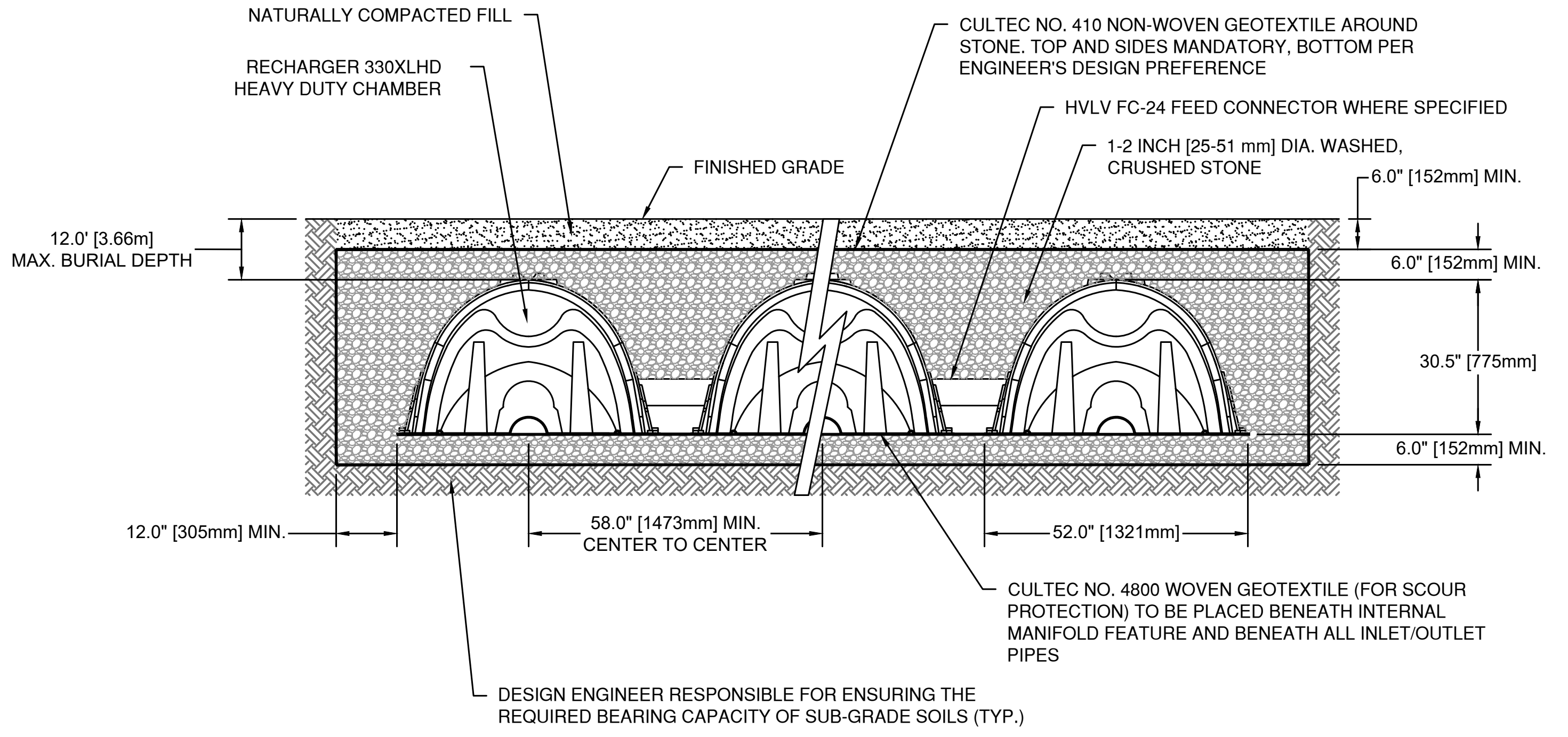
GEOTEXTILE SILT FENCE
(NTS)



CONSTRUCTION ENTRANCE
(NTS)



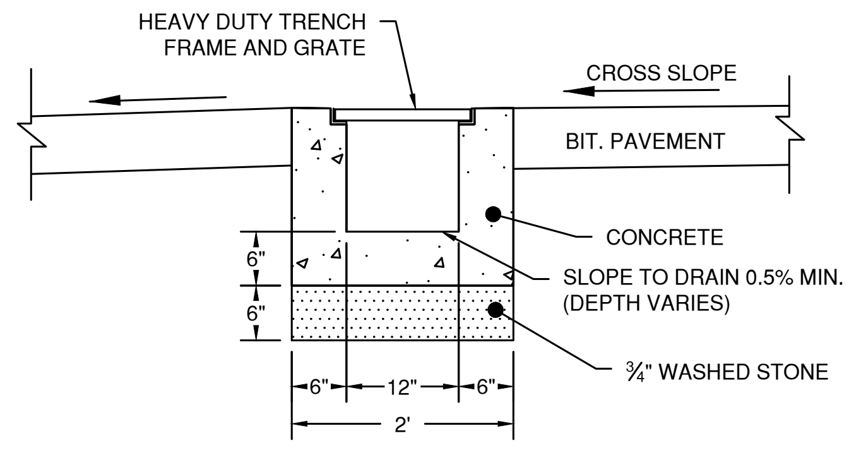
LEVEL SPREADER W/ CONCRETE CURB/LIP
(NTS)



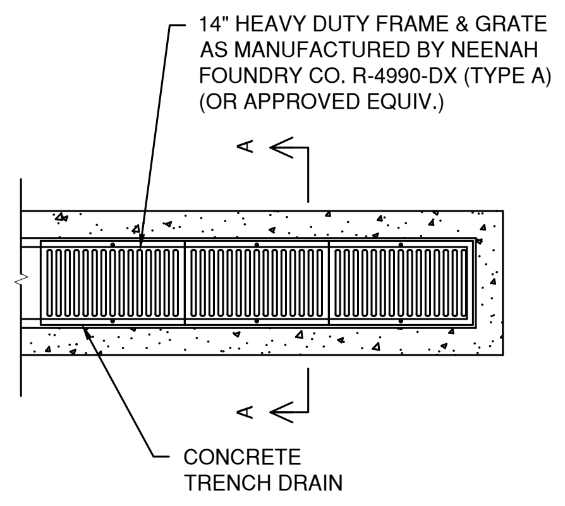
GENERAL NOTES
RECHARGER 330XL HD BY CULTEC, INC. OF BROOKFIELD, CT.
STORAGE PROVIDED = 11.32 CF/FT [1.05 m^3/m] PER DESIGN UNIT.
REFER TO CULTEC, INC.'S CURRENT RECOMMENDED INSTALLATION GUIDELINES.
THE CHAMBER WILL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS

ALL RECHARGER 330XL HD HEAVY DUTY UNITS ARE MARKED WITH A COLOR STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.
ALL RECHARGER 330XL HD CHAMBERS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

CULTEC RECHARGER 330XLHD HEAVY DUTY (NON-TRAFFIC APP.) TYPICAL CROSS SECTION
(NTS)

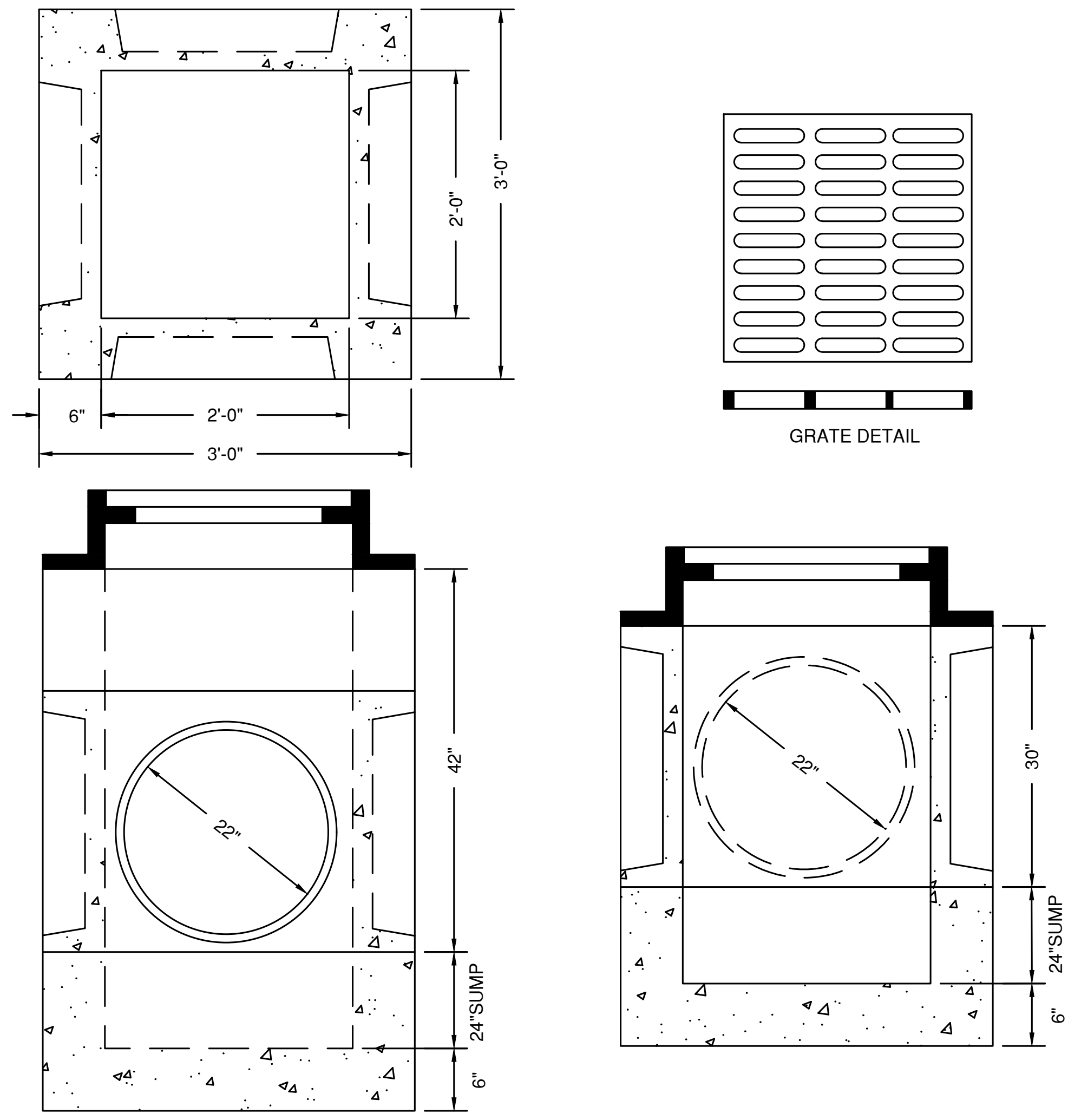


SECTION A-A



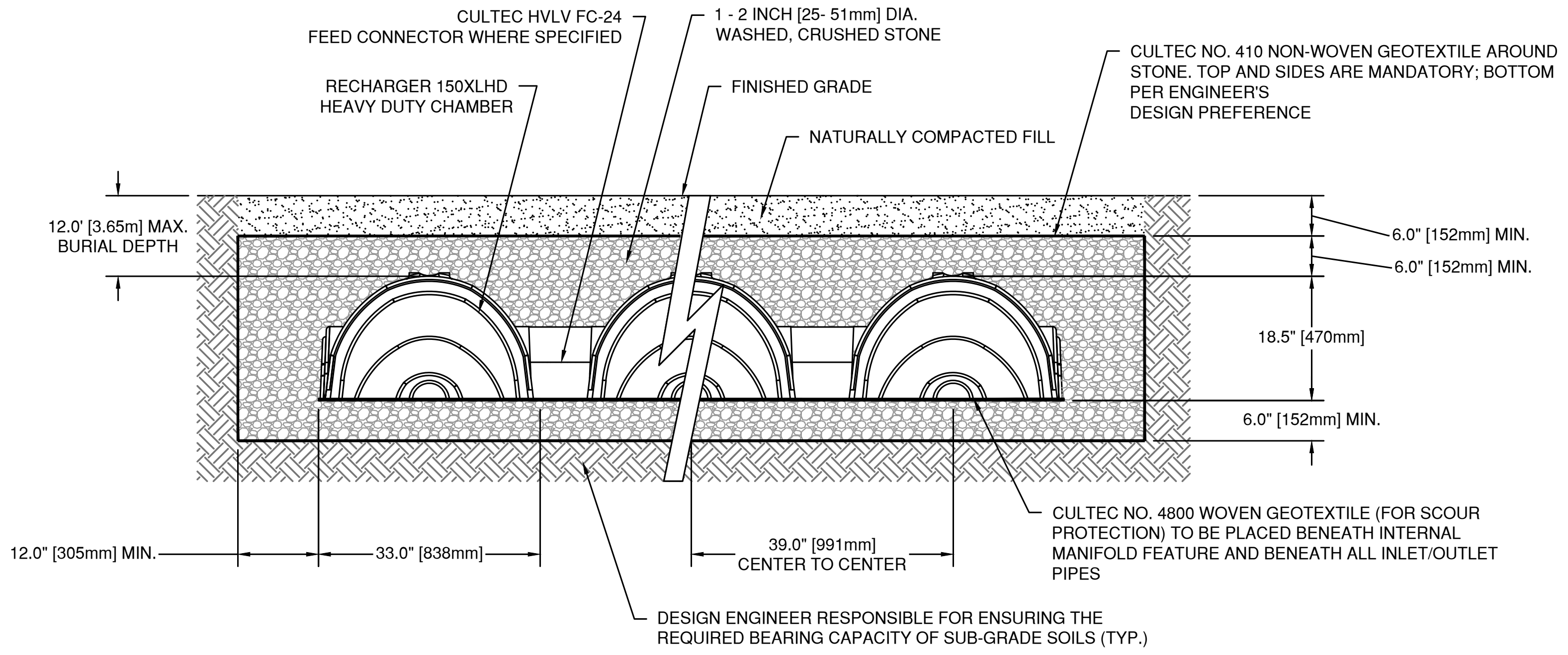
PLAN

TRENCH DRAIN
(NTS)



GENERAL NOTES
1. REINFORCED 6 X 6 X 10 GUAGE MESH OR TO SPECIFICATIONS.
2. GRATE - STEEL OR CAST IRON.
3. 4' HIGH SUMP HAS TWO KNOCKOUTS LOW AND 2 KNOCKOUTS UP HIGH.
4. APPROXIMATE WEIGHTS:
3' - 2100 LBS.
4' - 2800LBS.

2' X 2' PRECAST CONCRETE CATCH BASIN
(NTS)



GENERAL NOTES
RECHARGER 150XLHD BY CULTEC, INC. OF BROOKFIELD, CT.
STORAGE PROVIDED = 4.89 CF/FT (0.45 m^3/m) PER DESIGN UNIT.
REFER TO CULTEC, INC.'S CURRENT RECOMMENDED INSTALLATION GUIDELINES.
MAXIMUM ALLOWED COVER OVER TOP OF UNIT SHALL BE 12 '(3.65m).
THE CHAMBER WILL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.

ALL RECHARGER 150XLHD HEAVY DUTY UNITS ARE MARKED WITH A COLORED STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.
ALL RECHARGER 150XLHD CHAMBERS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

CULTEC RECHARGER 150XLHD HEAVY DUTY (NON-TRAFFIC APP.) TYPICAL CROSS SECTION
(NTS)

REVISION DATE	ISSUE

LANDTECH
SITE/CIVIL • ENVIRONMENTAL • SURVEYING • PLANNING
518 RIVERSIDE AVENUE • WESTPORT, CT 06880 • 203-454-2110
HELLO@LANDTECHCONSULT.COM • WWW.LANDTECHCONSULT.COM

PREPARED FOR:
SCOTT MARONA

PROJECT LOCATION:
11 EDGEMARTH HILL ROAD
WESTPORT, CT

PROJECT TITLE:
SITE IMPROVEMENTS FOR A
PROPOSED 2 LOT SUBDIVISION

DRAWING TITLE:
NOTES AND DETAILS

PROJECT No. 23051-01

DATE:	DESIGNED BY:	CHECKED BY:
5/7/2024	SM	AS

SCALE:
N.T.S.

PROJECT STATUS:
DESIGN DEVELOPMENT
NOT FOR CONSTRUCTION

ANDY SOUMELIDIS
27803

C-3.0

T:\1. ACTIVE PROJECTS\23051-01 MARONA - 11 EDGEMARTH HILL RD., WESTPORT\DRAWINGS\SUBDIVISION PLAN\11 EDGEMARTH HILL ROAD - SITE PLAN.DWG