

# Residential Resubdivision

## Map 001- Block 007- Lot 00A

### Silver Falls Road

### Town of Montville, Connecticut 06370

PREPARED FOR  
**Daniela Gjergjaj**

**PROPERTY OWNERS**

DANIELA GJERGJAJ  
301 CHESTERFIELD RD  
EAST LYME, CT 06333

**APPLICANT**

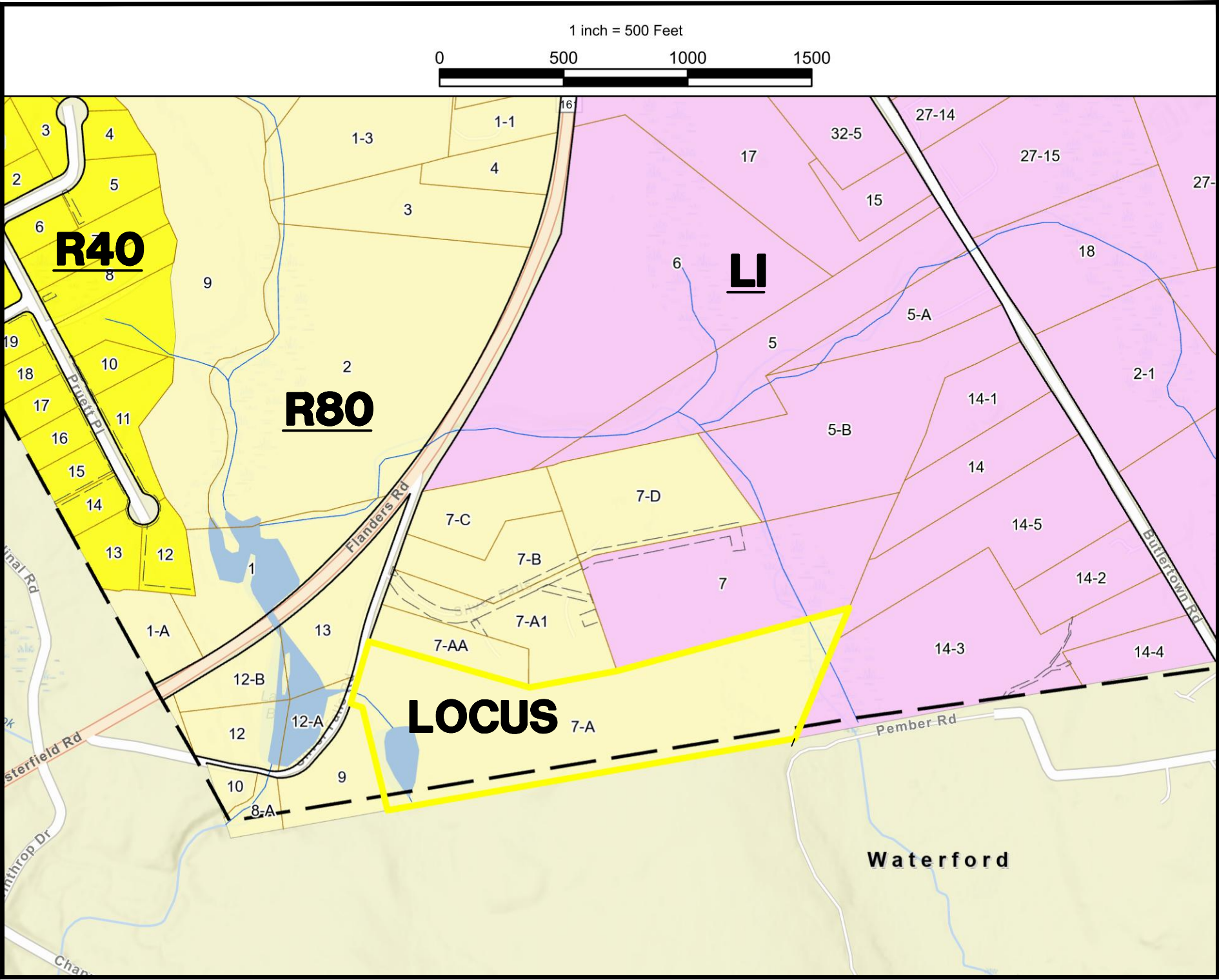
DANIELA GJERGJAJ  
301 CHESTERFIELD RD  
EAST LYME, CT 06333

**ZONE**

R80

**LEGEND TO DRAWINGS**

EXISTING		PROPOSED
---	PROPERTY LINE	
---	BUILDING SETBACK LINE	
---	CATCH BASIN & CULVERT	
W	WATER	W
S	SEWER	
FM	SEWER FORCE MAIN	
G	GAS	
126	CONTOUR	126
124.2 x	SPOT ELEVATION	124.2 x
Ø	UTILITY POLE	
E	ELECTRIC	
T	TELEPHONE	
	ELECTRIC & TELECOM.	ETC
---	SILT FENCE	SF
---	FENCE	
---	RETAINING WALL	
---	STONE WALL	
---	TREE/SHRUB LINE	



**LOCATION MAP**

SCALE: 1"=±500'

**INDEX TO DRAWINGS**

DRAWING NO.	DESCRIPTION OF DRAWINGS
1	Existing Conditions / Boundary Survey
2	Proposed Subdivision Map
3	Site Plan Lot 1 & 2
4	Site Plan Lot 3 & 4
5	Plan and Profile 1+00 - 9+50
6	Plan and Profile 9+50 - 17+50
7	Plan and Profile "Future Access Road"
	20+00 - 27+00
8	Construction Details
9	E&S Details and Notes & Test Pit Logs
10	Storm Water Quality Details

April 10, 2025  
REVISED May 7, 2025  
REVISED June 5, 2025

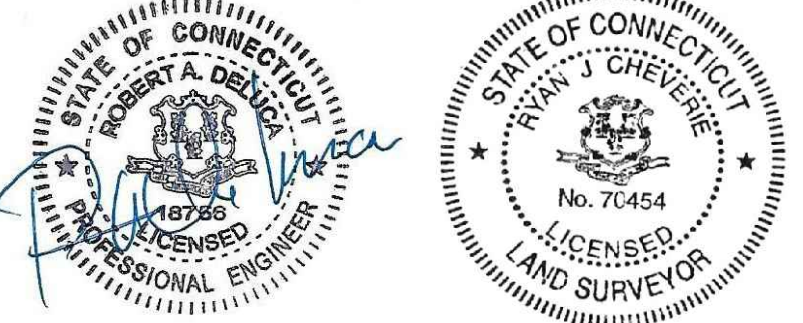
**CLA Engineers, Inc.**  
CIVIL • STRUCTURAL • SURVEYING

317 Main Street Norwich, CT 06360  
(860) 886-1966 Fax (860) 886-9165

APPROVED BY THE UNCAS HEALTH DEPARTMENT  
DATE

APPROVED BY THE MONTVILLE INLAND WETLAND COMMISSION  
CHAIRMAN  
DATE  
DATE OF COMPLETION OF ALL WORK

APPROVED BY THE MONTVILLE PLANNING & ZONING COMMISSION  
CHAIRMAN  
DATE  
DATE OF COMPLETION OF ALL WORK









# ZONING COMPLIANCE TABLES

ITEM	Zone: Residential R-80				
	REQUIRED	PROVIDED	LOT 2 INTERIOR LOT	LOT 3 INTERIOR LOT	LOT 4 INTERIOR LOT
LOT AREA *REAR LOT	80,000 OR 120,00 S.F. *	7.52 ACRES	3.33 ACRES	3.52 ACRES	5.05 ACRES
*LOT AREA (EXCLUDING ACCESS STRIP)	120,000 S.F. *	327,453 S.F.	122,590 S.F.	122,784 S.F.	175,298 S.F.
LOT FRONTAGE ** REAR LOT	150 FT. / 25' **	184 FT.	25 FT.	25 FT.	25 FT.
FRONT YARD SETBACK *** REAR LOT	50 FT. / 75' ***	730 FT.	230 FT.	80 FT.	75 FT.
SIDE YARD SETBACK	20 FT.	75 FT	125 FT	150 FT	40 FT
REAR YARD SETBACK	50 FT.	65 FT.	80 FT.	135 FT.	175 FT.
WATER SUPPLY		WELL	WELL	WELL	WELL
SEWAGE DISPOSAL		SEPTIC	SEPTIC	SEPTIC	SEPTIC

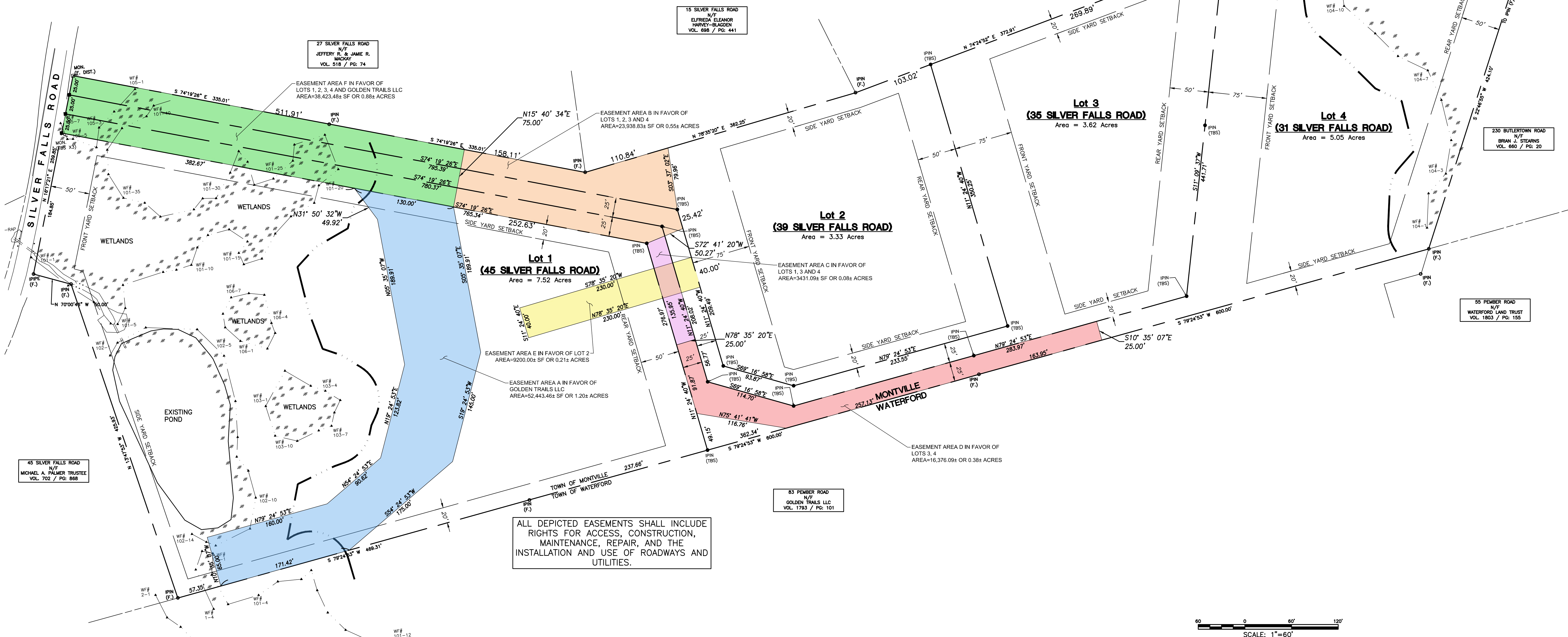
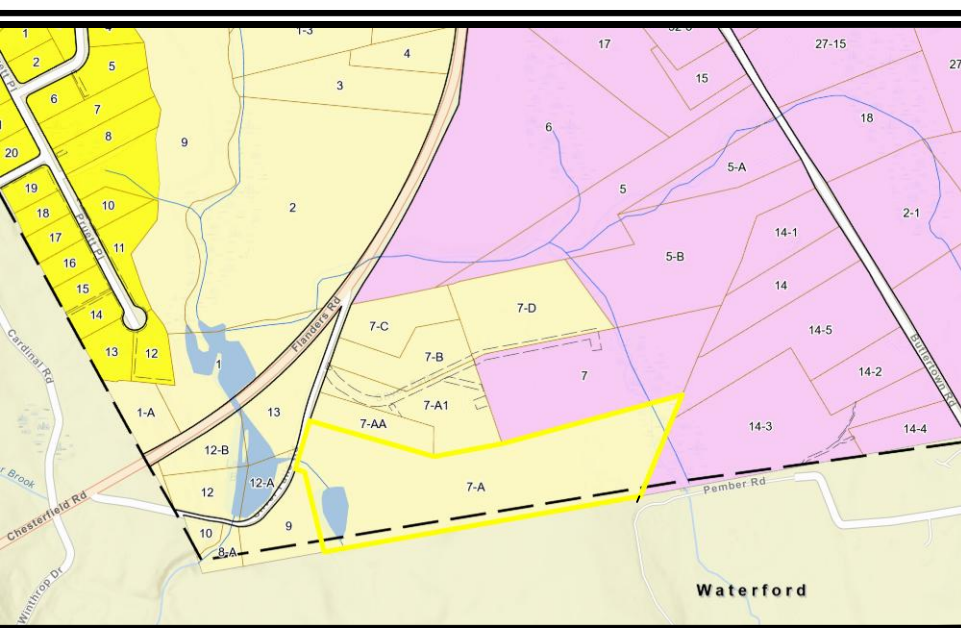
\* REGULATION 4.11.4.3 & 4.11.4.4 — all interior lots shall have a lot area to at least 1.5 times the minimum lot area for the zoning district in which the lot is located. For zoning bulk calculations only, the total lot area shall be the proposed lot lines, excluding the length and width of the access strip.

\*\* REGULATION 4.11.4.3 — Such strip of land shall be at all points a minimum of twenty-five feet (25') wide.

\*\*\* REGULATION 4.11.4.5 — The minimum side yard and rear yard requirements for the Zoning District in which the lot is located shall be required. The front lot line shall be measured at the point closest to the street where the lot width is equal to the minimum lot frontage for the subject. There shall be a minimum of 1.5 times the front yard setback required in the Zoning District from the front lot line to the principle building.

## KEY MAP

SCALE: 1"=±1,000'



ALL DEPICTED EASEMENTS SHALL INCLUDE RIGHTS FOR ACCESS, CONSTRUCTION, MAINTENANCE, REPAIR, AND THE INSTALLATION AND USE OF ROADWAYS AND UTILITIES.

## DEVELOPMENT

1. THE PROPOSED DEVELOPMENT IS A 4 LOT RESIDENTIAL SUBDIVISION. THE PROPOSED LIMITS OF DISTURBANCE HAVE BEEN SHOWN ON PLANS. THE PROPOSED DEVELOPMENT WILL DISTURB APPROXIMATELY 4.95 ACRES.
2. THERE IS APPROXIMATELY 4,590 S.F. OF PROPOSED INLAND WETLAND DISTURBANCE.
3. THERE IS PROPOSED WORK WITHIN THE 50-FOOT INLAND WETLAND UPLAND REVIEW AREA.
4. A PORTION OF THE SITE IS LOCATED IN THE 100-YEAR FLOOD PLAIN. (FIRM MAP #09011C03366, MAP EFF. JULY 18, 2011)
5. PORTION OF THE LOT LIES WITHIN A CT DEEP NATURAL DIVERSITY DATABASE AREA.
6. NO PORTION OF THE LOT LIES WITHIN THE COASTAL MANAGEMENT AREA.
7. NO PORTION OF THE LOT LIES WITHIN THE AQUIFER PROTECTION AREA.
8. THE RESIDENTIAL LOTS WILL BE SERVED BY AN ONSITE SEPTIC SYSTEM.
9. THE RESIDENTIAL LOTS WILL BE SERVED BY AN ONSITE WELL.

CLA

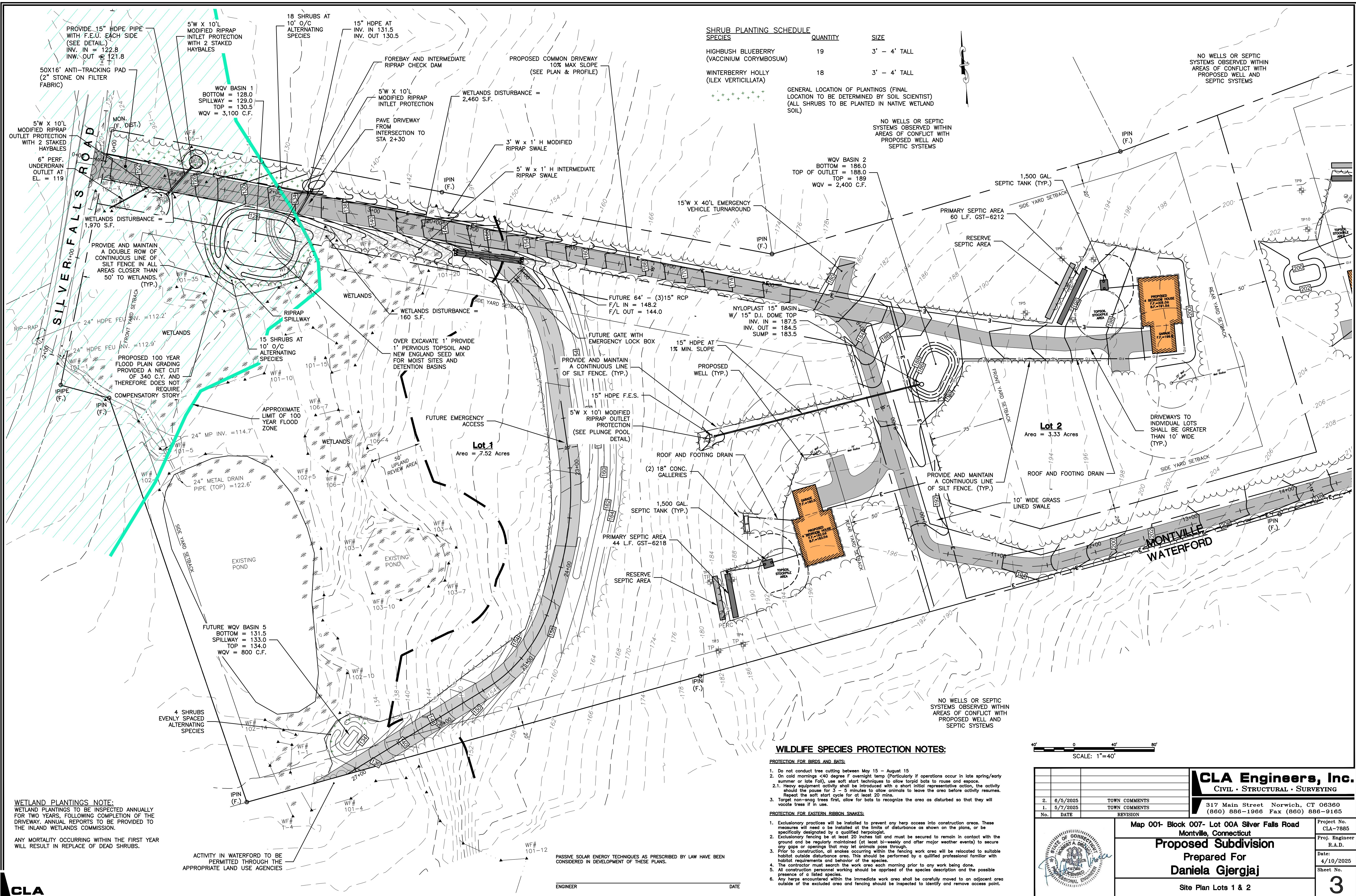
TO MY KNOWLEDGE AND BELIEF THIS PLAN IS SUBSTANTIALLY CORRECT AS NOTED OR DEPICTED HEREON.

RYAN J. CHEVERIE, L.L.S. #70454

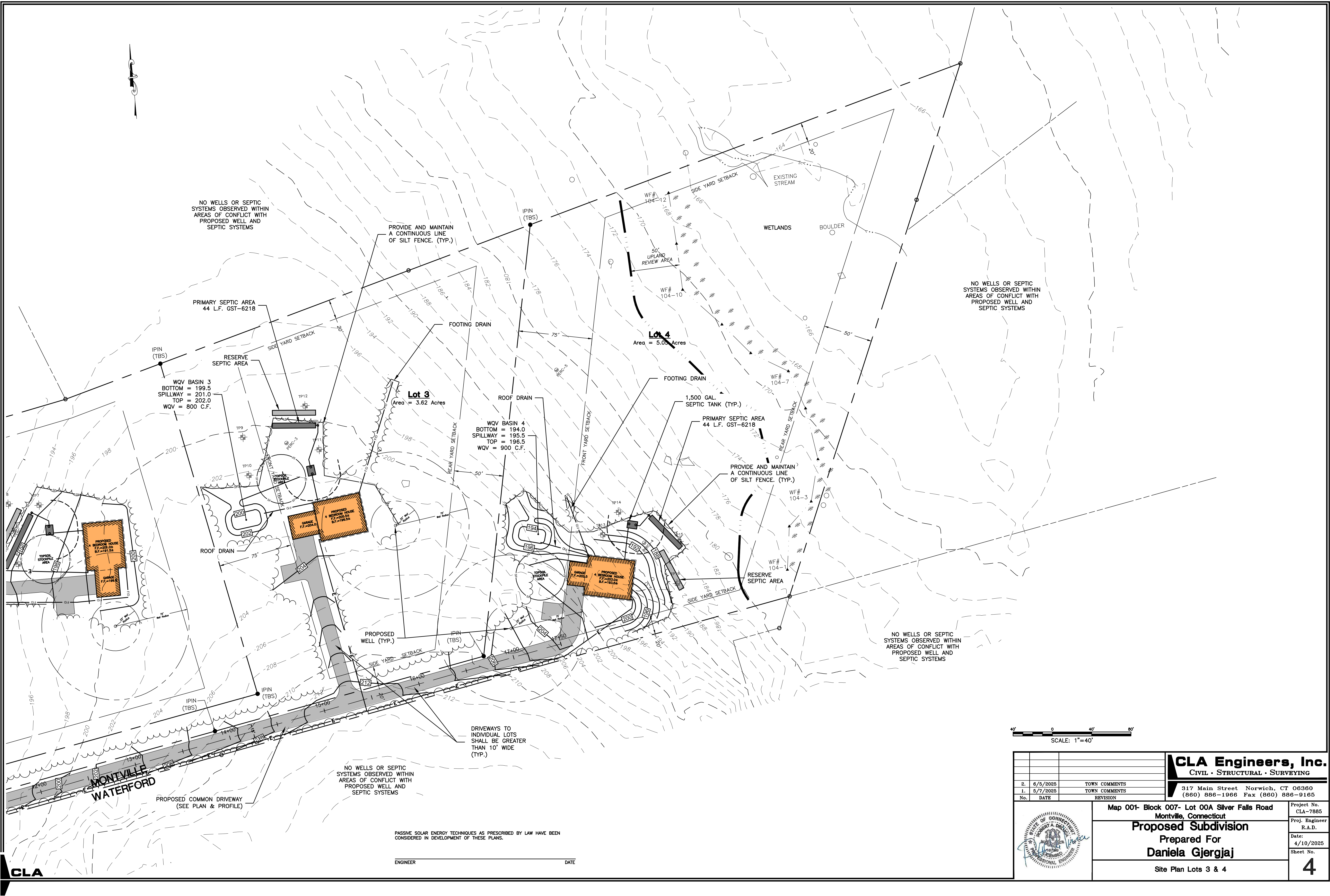
SCALE: 1"=60'

<b>CLA Engineers, Inc.</b> CIVIL • STRUCTURAL • SURVEYING 317 Main Street Norwich, CT 06360 (860) 886-1966 Fax (860) 886-9165		Project No. CLA-7885 Proj. Engineer R.A.D. Date: 4/10/2025 Sheet No. <b>2</b>
2. 6/5/2025 TOWN COMMENTS 1. 5/7/2025 TOWN COMMENTS No. DATE REVISION	Map 001- Block 007- Lot 00A Silver Falls Road Montville, Connecticut <b>Proposed Subdivision</b> Prepared For <b>Daniela Gjergaj</b> Subdivision Plan	








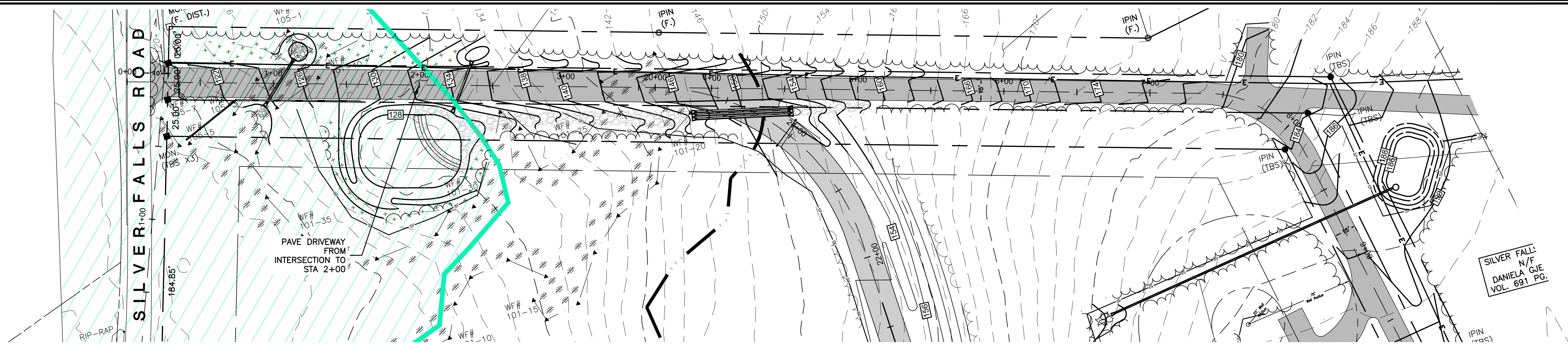


<b>CLA Engineers, Inc.</b> CIVIL • STRUCTURAL • SURVEYING	
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Map 001- Block 007- Lot 00A Silver Falls Road Montville, Connecticut <b>Proposed Subdivision</b> Prepared For <b>Daniela Gjergjaj</b> Site Plan Lots 3 & 4	
Project No. CLA-7885 Proj. Engineer R.A.D. Date: 4/10/2025 Sheet No. <b>4</b>	

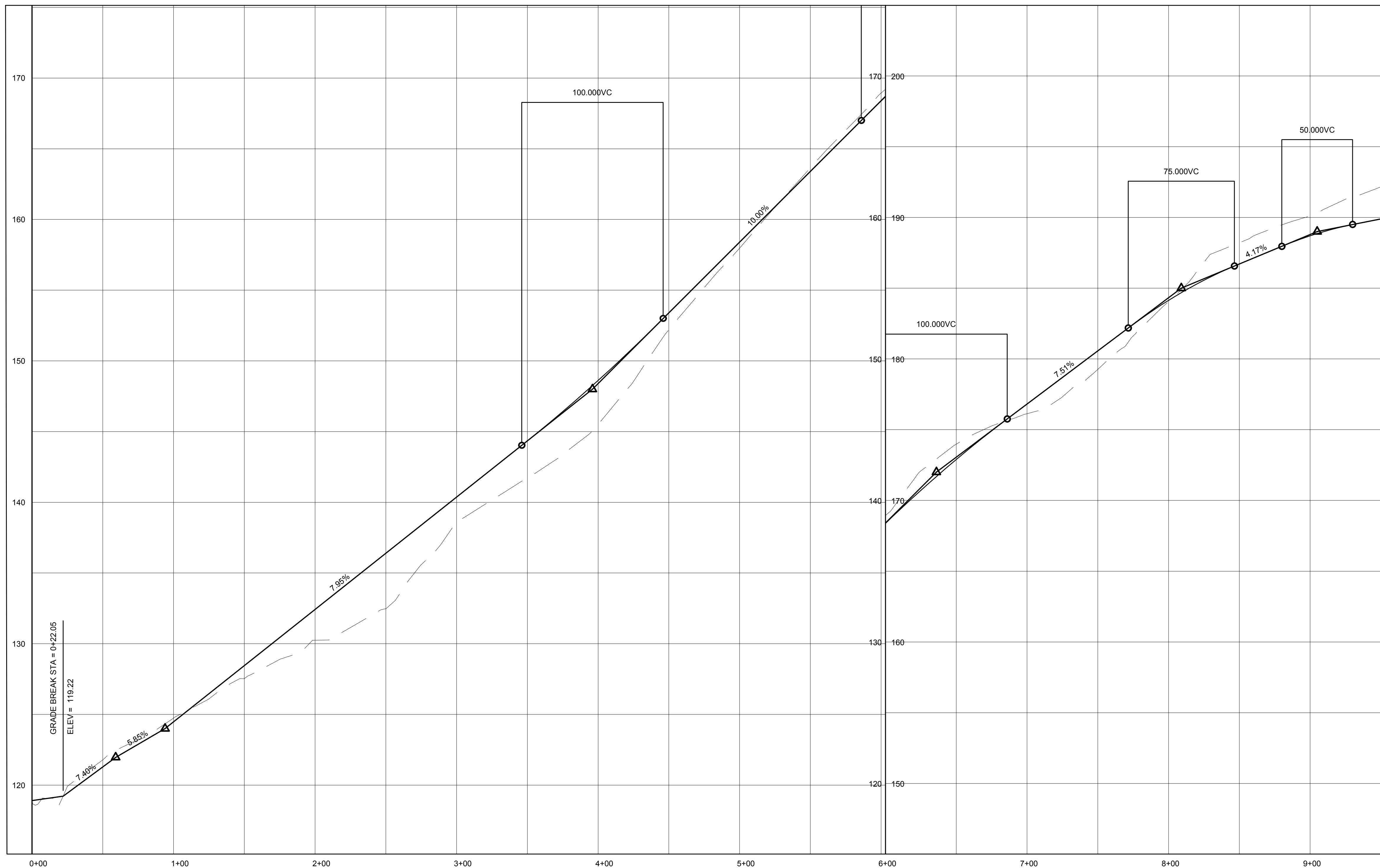
No.	DATE	REVISION
1.	5/7/2025	TOWN COMMENTS
2.	6/5/2025	TOWN COMMENTS








SILVER FALLS  
N/F  
DANIELA GJE  
VOL. 691 PG.



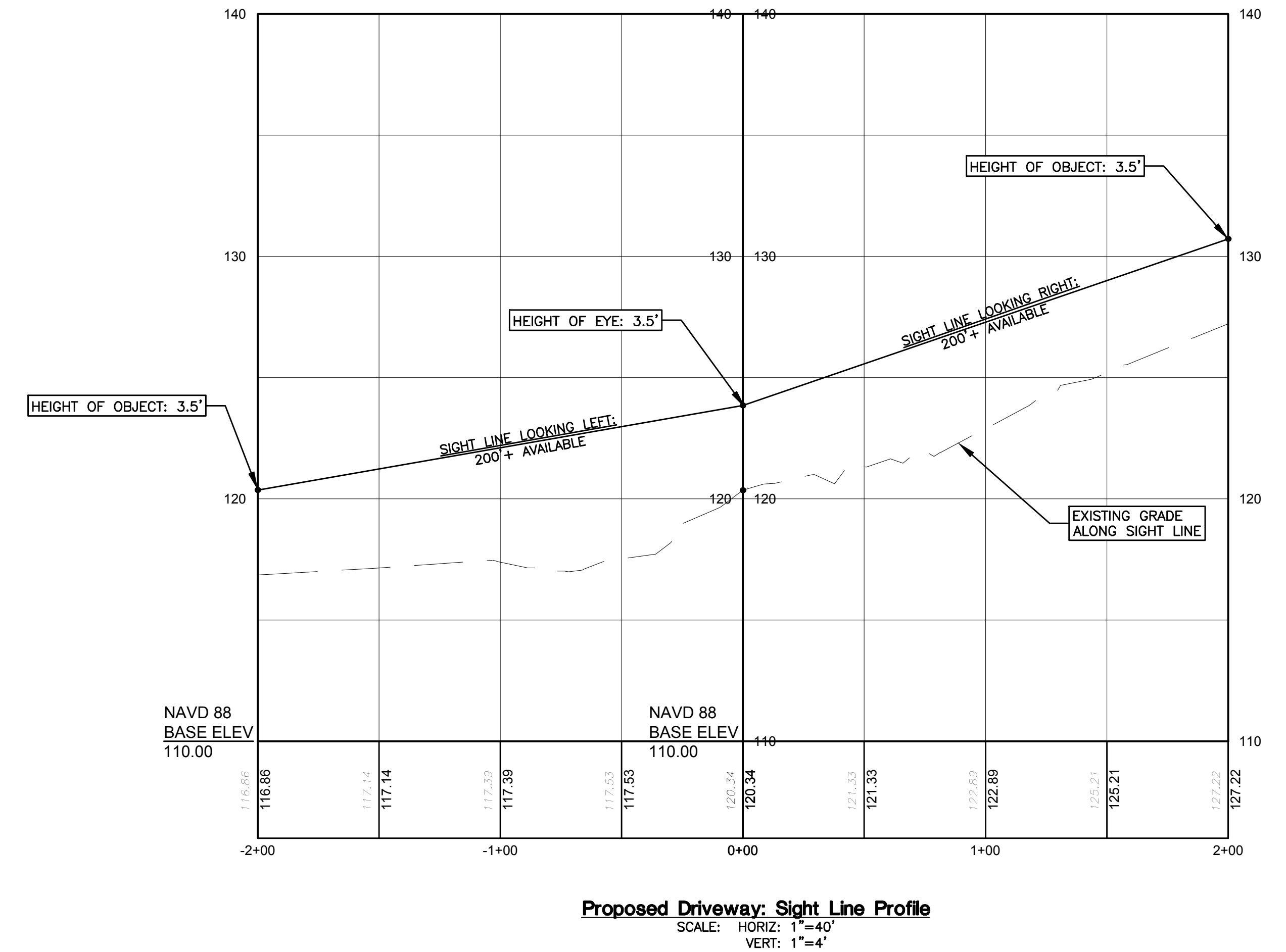
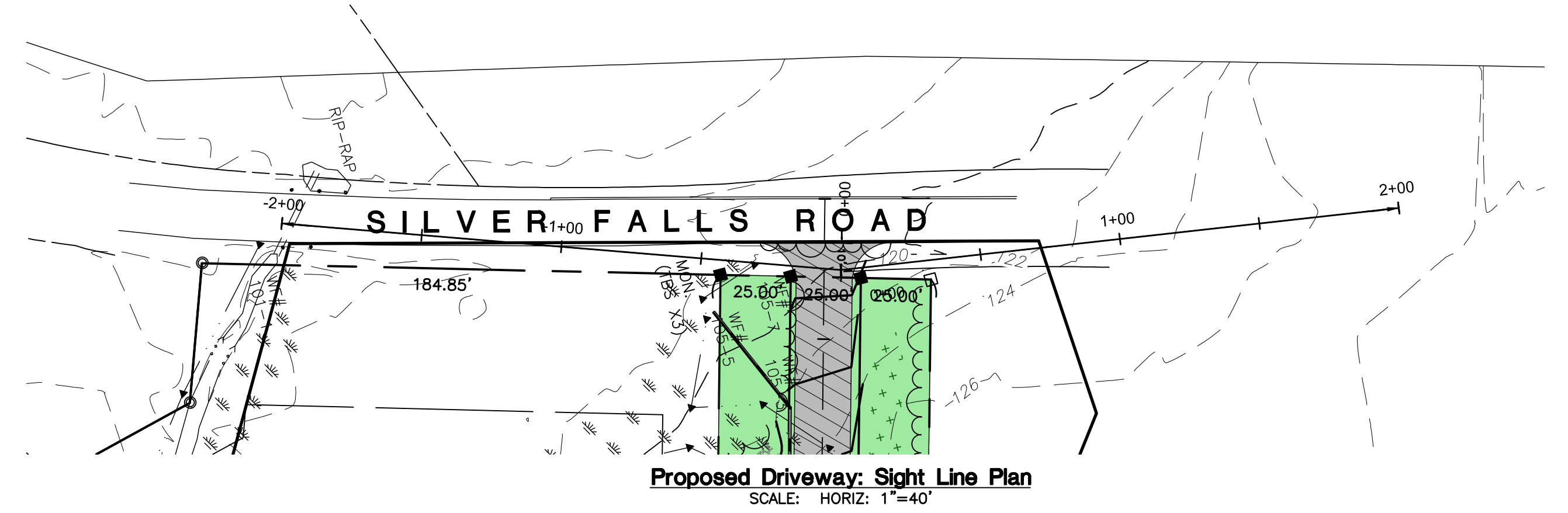
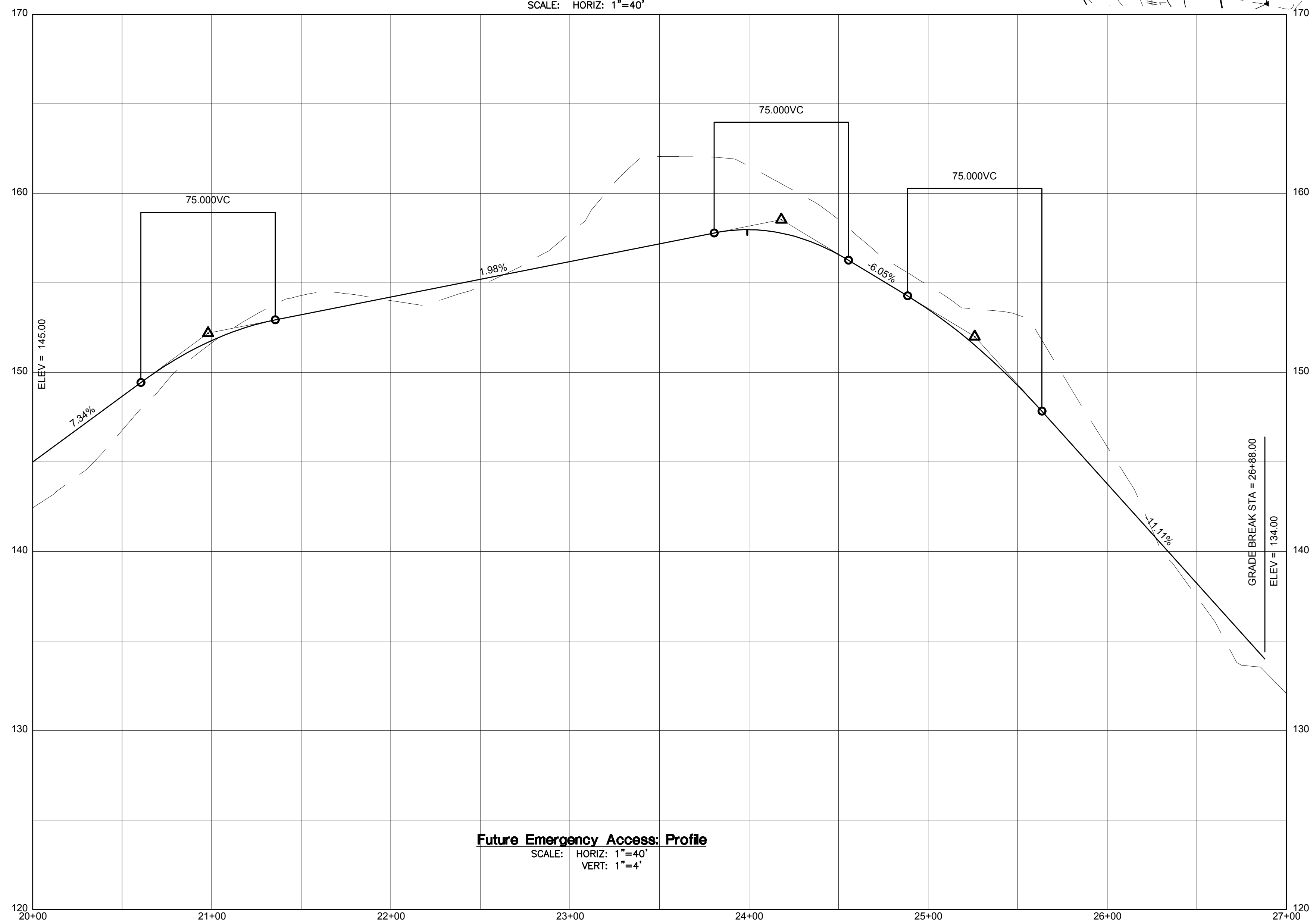
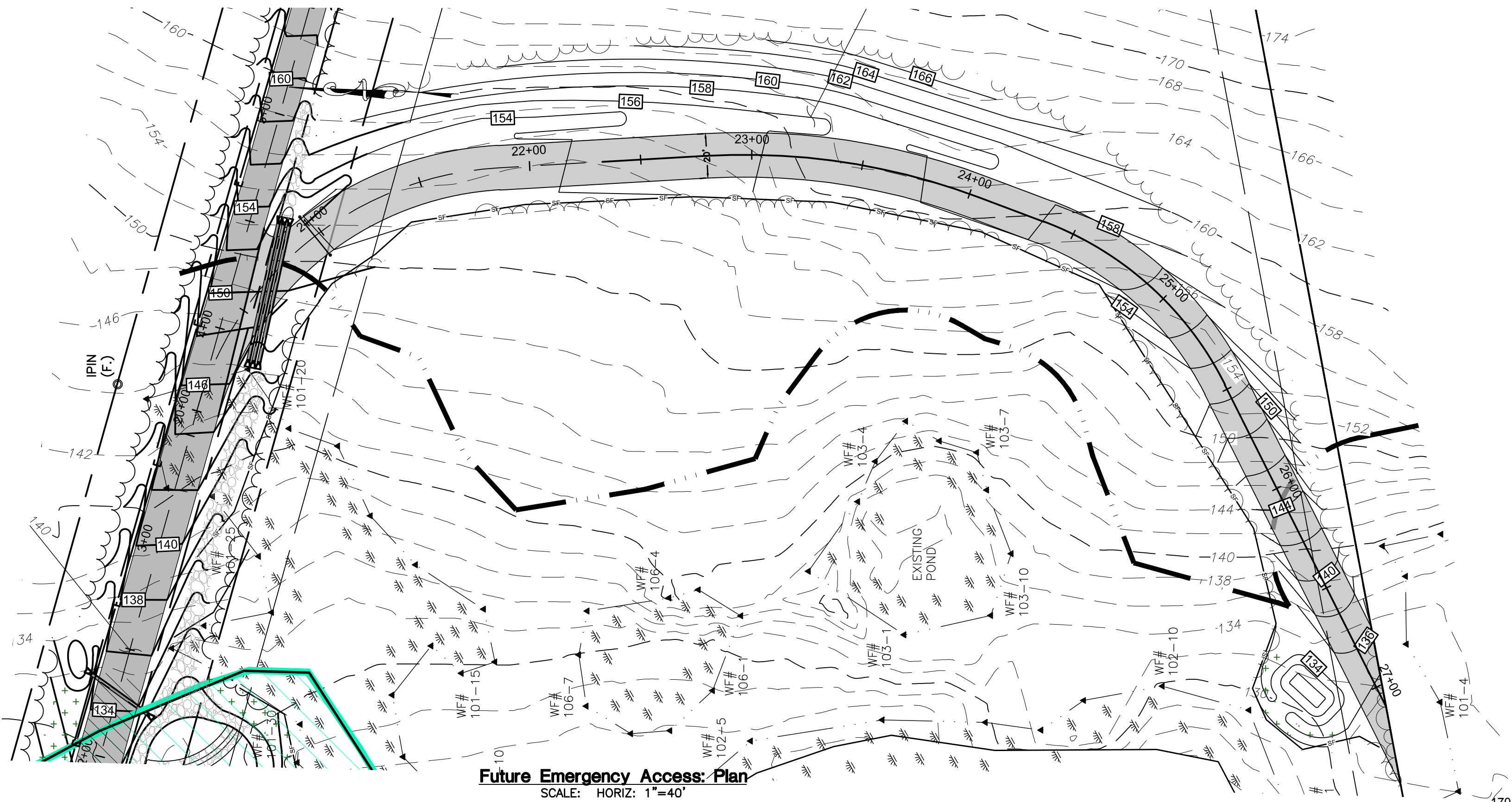
40' 0 40' 80'  
SCALE: 1"=40'

		<b>CLA Engineers, Inc.</b> CIVIL • STRUCTURAL • SURVEYING	
		317 Main Street Norwich, CT 06360 (860) 886-1966 Fax (860) 886-9165	
2.	6/5/2025	TOWN COMMENTS	Map 001- Block 007- Lot 00A Silver Falls Road Montville, Connecticut <b>Proposed Subdivision</b> Prepared For <b>Daniela Gjergaj</b> Plan & Profile 0+00 - 9+50
1.	5/7/2025	TOWN COMMENTS	
No.	DATE	REVISION	
		Project No. CLA-7885 Proj. Engineer R.A.D. Date: 4/10/2025 Sheet No. <b>5</b>	



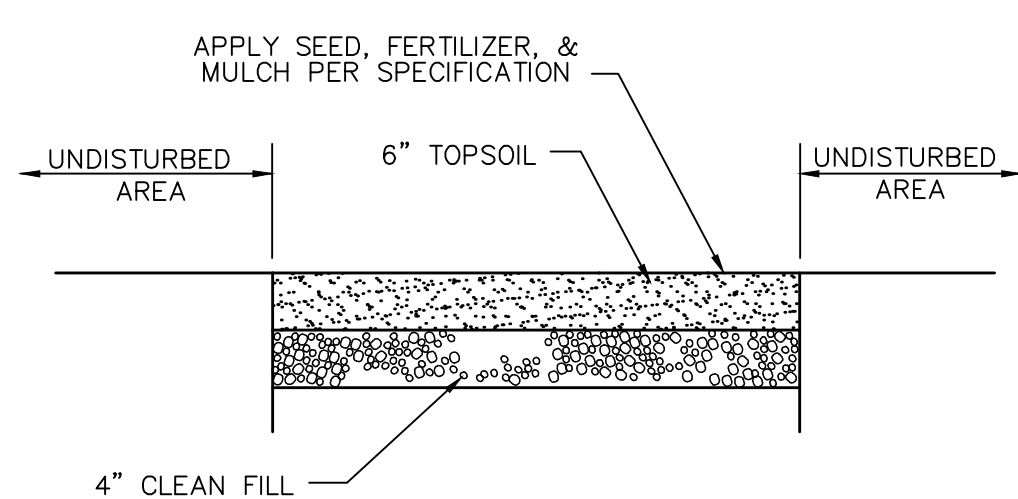




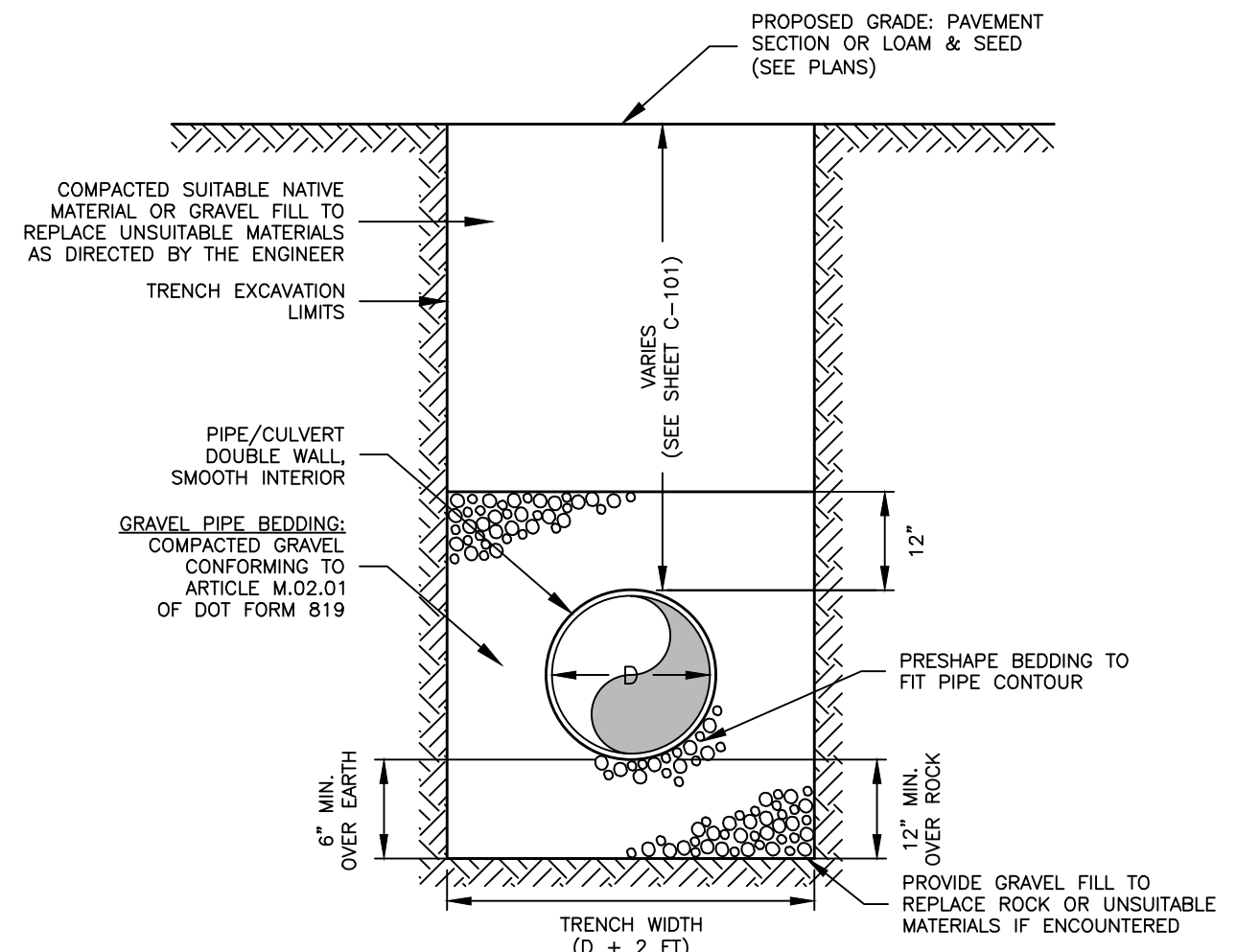


<b>CLA Engineers, Inc.</b> CIVIL • STRUCTURAL • SURVEYING 317 Main Street Norwich, CT 06360 (860) 886-1966 Fax (860) 886-9165		Project No. CLA-7885 Proj. Engineer R.A.D. Date: 4/10/2025 Sheet No. <b>7</b>
Map 001- Block 007- Lot 00A Silver Falls Road Montville, Connecticut <b>Proposed Subdivision</b> Prepared For <b>Daniela Gjergjaj</b> Plan & Profile "Future Access Road" 20+00 - 27+00		



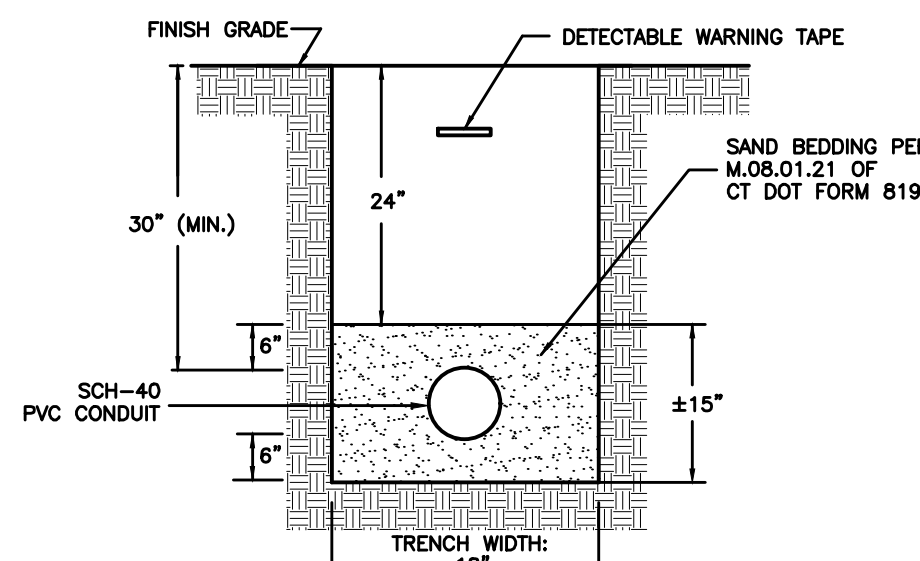


**TOPSOIL & SEED CROSS SECTION**  
NOT TO SCALE



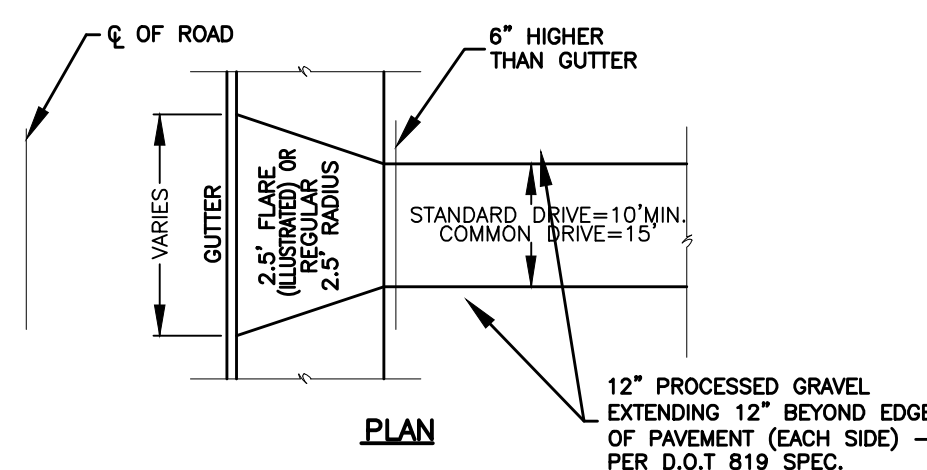
- NOTES:**
1. D=INSIDE DIAMETER OF PIPE/CULVERT.
  2. TRENCH WIDTHS NOTED ARE SET TO ESTABLISH PAY LIMITS ONLY.
  3. ALL EXCAVATIONS MUST MEET OSHA STANDARDS.
  4. CONTRACTOR TO PROVIDE COMPACTION ON ALL TRENCH BACKFILLS, EXCAVATIONS AND PAVEMENT BASES TO NOT LESS THAN 95% OF THE DRY DENSITY FOR THAT MATERIAL.

**TRENCH DETAIL: DRAINAGE CULVERT**  
NOT TO SCALE

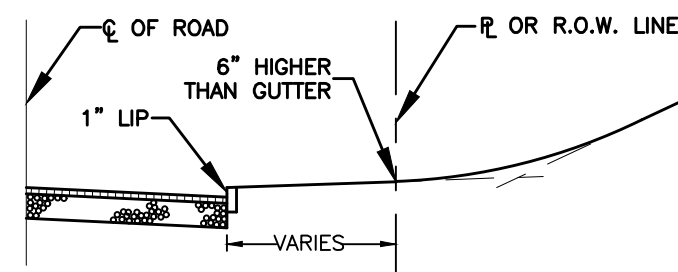


- NOTES:**
1. TRENCH WIDTHS NOTED ARE SET TO ESTABLISH PAY LIMITS ONLY.
  2. ALL EXCAVATIONS MUST MEET OSHA STANDARDS.
  3. ALL EXCAVATIONS MUST MEET OSHA STANDARDS.
  4. CONTRACTOR TO PROVIDE COMPACTION ON ALL TRENCH BACKFILLS, EXCAVATIONS AND PAVEMENT BASES TO NOT LESS THAN 95% OF THE DRY DENSITY FOR THAT MATERIAL.
  5. MAINTAIN 2" SEPARATION BETWEEN MULTIPLE CONDUIT TRENCHES

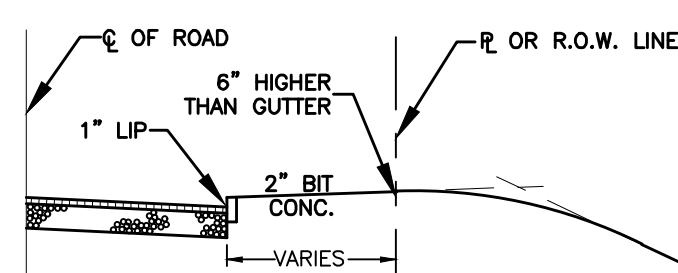
**TYPICAL CONDUIT TRENCH DETAIL**  
NOT TO SCALE



**PLAN**

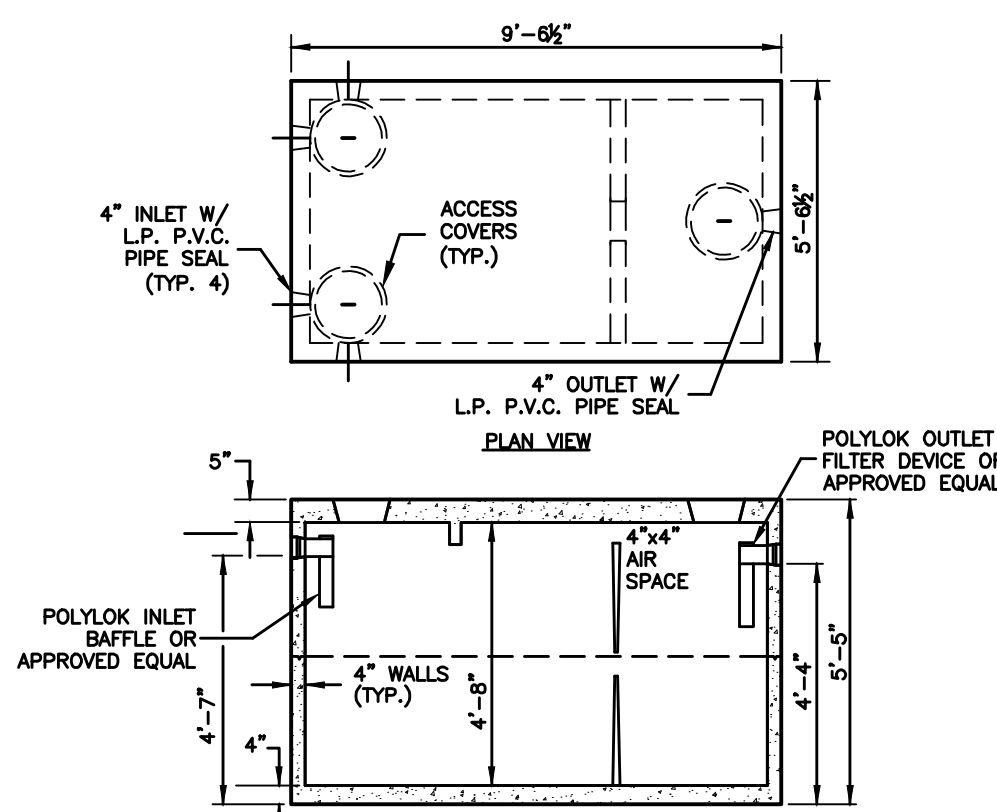


**SAG CURVE IN DRIVE**



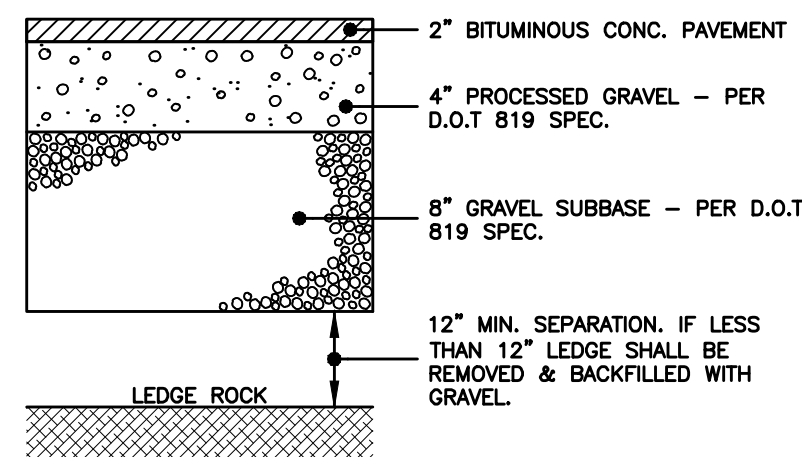
**CREST CURVE IN DRIVE**

**DRIVEWAY DETAIL**  
NOT TO SCALE



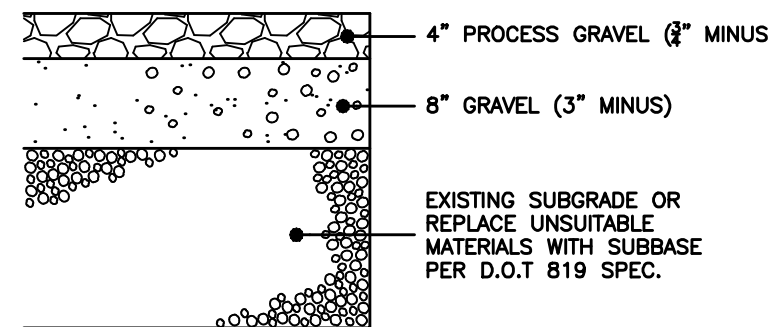
- CROSS SECTION VIEW**
1. DIMENSIONS MAY VARY DEPENDING ON TANK MANUFACTURER (UNITED CONCRETE SHOWN)
  2. CONCRETE - 4,000 P.S.I. AT 28 DAYS
  3. STEEL REINFORCEMENT - ASTM A-615 OR, 60, A-185 OR A-497, 1" MIN. COVER
  4. CONSTRUCTION JOINT-SEALED WITH 1" DIA. BUTYL RUBBER OR EQUIVALENT.
  5. SEPTIC TANK SHALL MEET THE REQUIREMENTS OF SECTION 5 OF THE CT PUBLIC HEALTH CODE
  6. PROVIDE RISERS AND ACCESS COVER TO WITHIN 12" OF FINISHED GRADE. TANK ACCESS COVERS TO REMAIN IN PLACE

**1500 GALLON SEPTIC TANK**  
NOT TO SCALE

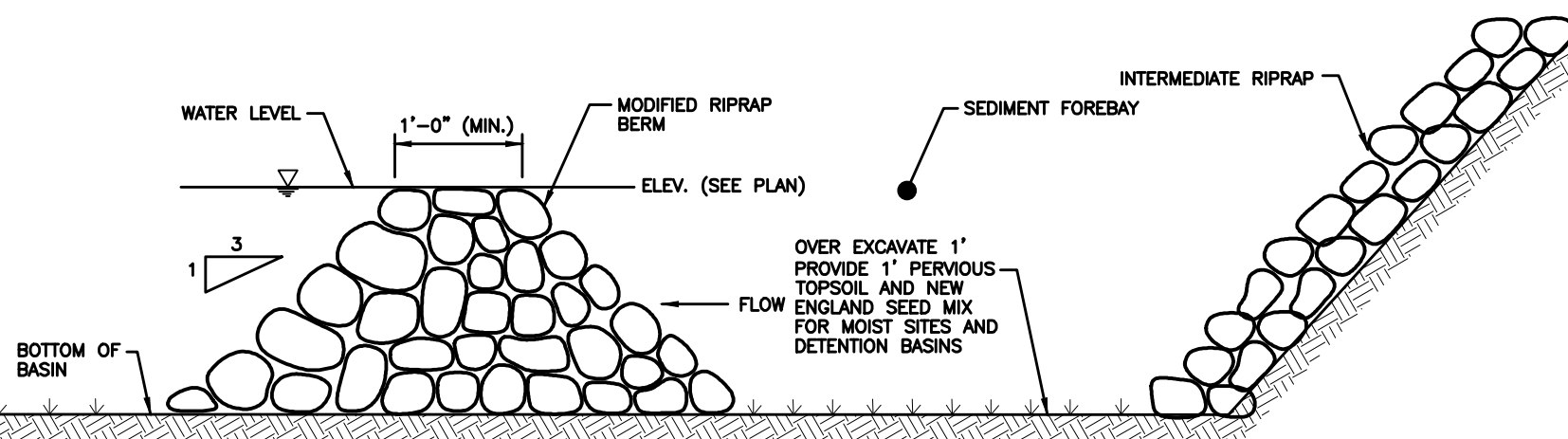


- NOTES:**
1. PROVIDE CONTINUOUS TACK COAT ALONG EDGE WHEN MATCHING EXISTING PAVEMENT
  2. CONTRACTOR TO PROVIDE COMPACTION ON ALL TRENCH BACKFILLS, EXCAVATIONS AND PAVEMENT BASES TO NOT LESS THAN 95% OF THE DRY DENSITY FOR THAT MATERIAL WHEN TESTED IN ACCORDANCE WITH ASHTO T180, METHOD D

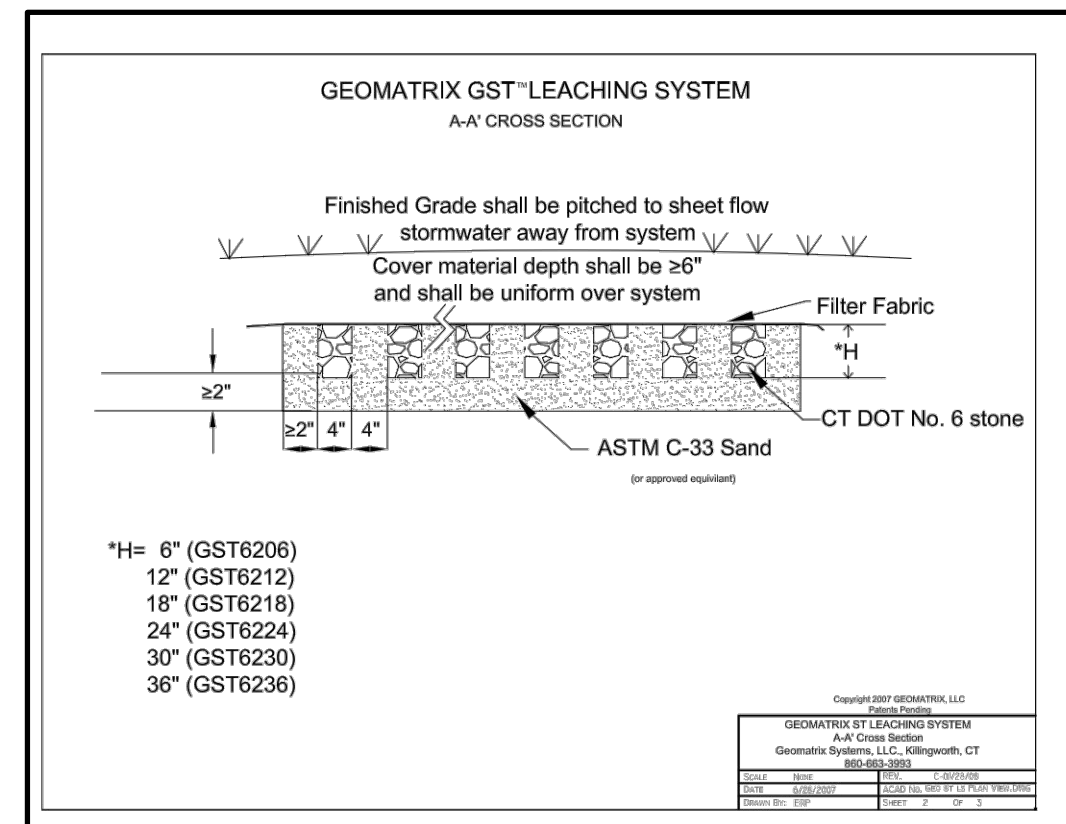
**TYPICAL PAVEMENT SECTION DETAIL**  
NOT TO SCALE



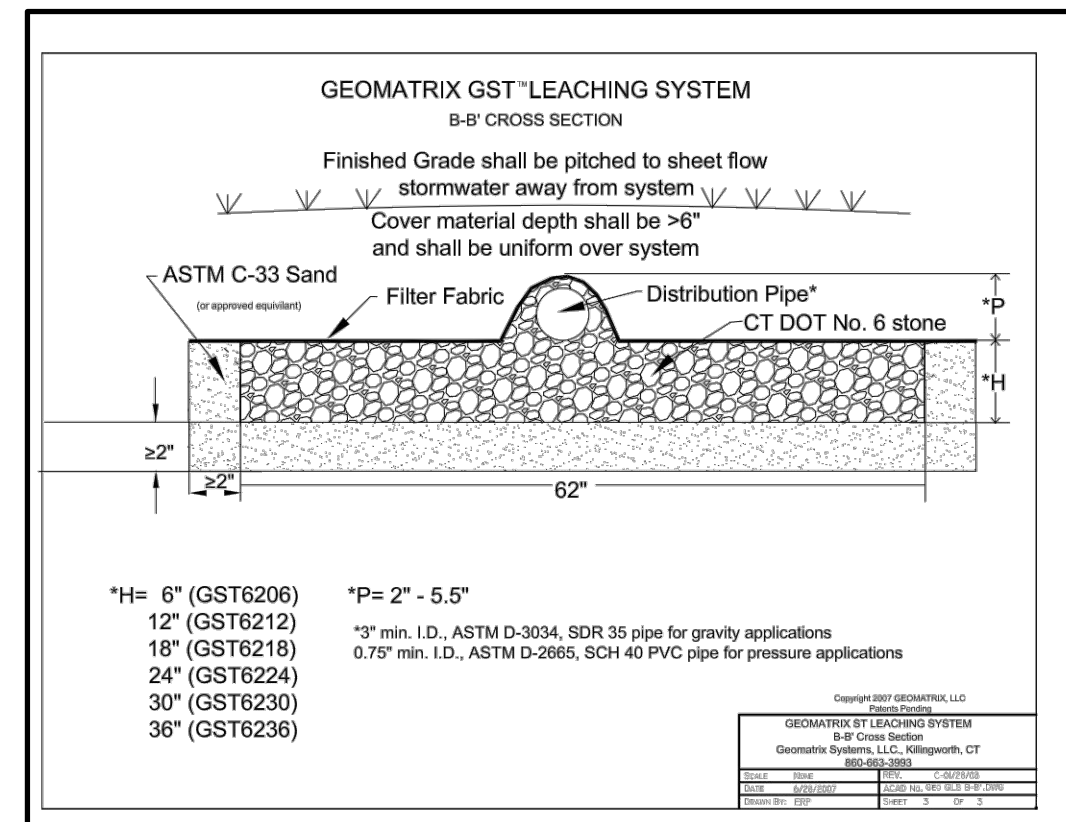
**TYPICAL DRIVEWAY SECTION DETAIL**  
NOT TO SCALE



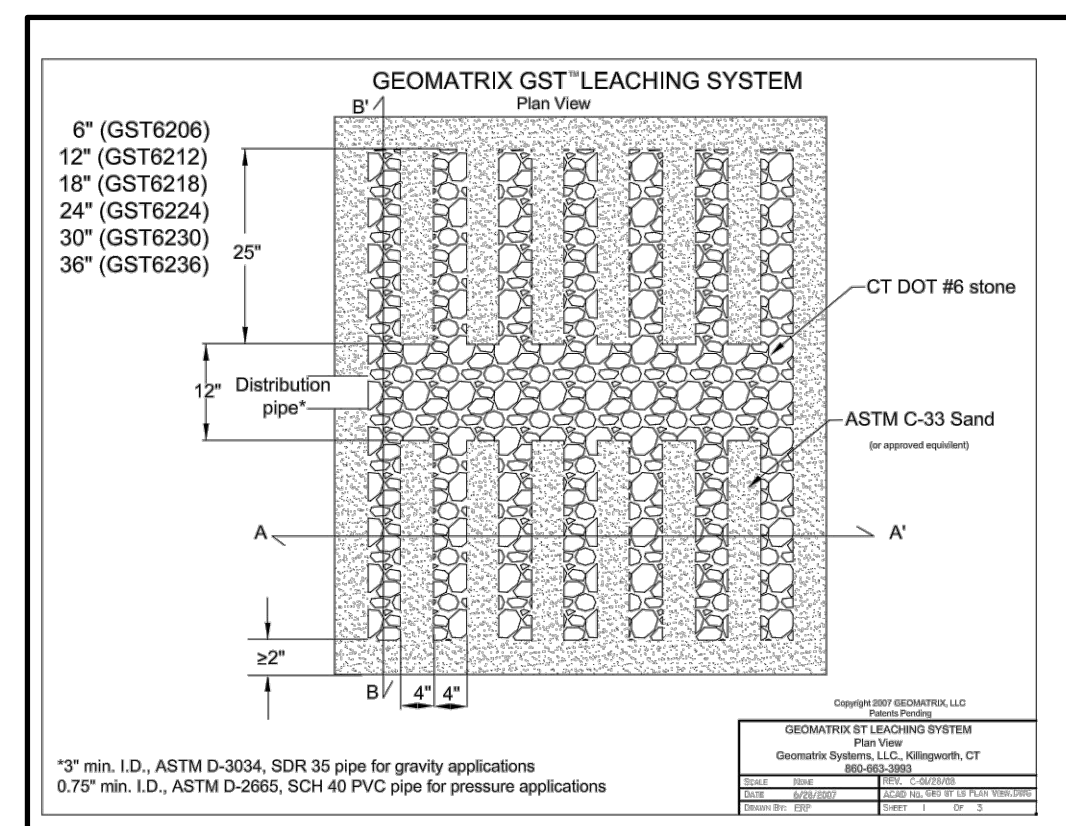
**FOREBAY AND STONE CHECK DAM**  
NOT TO SCALE



- \*H=** 6" (GST6206)  
12" (GST6212)  
18" (GST6216)  
24" (GST6224)  
30" (GST6230)  
36" (GST6236)



- \*H=** 6" (GST6206)  
12" (GST6212)  
18" (GST6216)  
24" (GST6224)  
30" (GST6230)  
36" (GST6236)
- \*P=** 2" - 5.5"  
3" min. I.D., ASTM D-3034, SDR 35 pipe for gravity applications  
0.75" min. I.D., ASTM D-2865, SCH 40 PVC pipe for pressure applications



- \*H=** 6" (GST6206)  
12" (GST6212)  
18" (GST6216)  
24" (GST6224)  
30" (GST6230)  
36" (GST6236)
- \*P=** 2" - 5.5"  
3" min. I.D., ASTM D-3034, SDR 35 pipe for gravity applications  
0.75" min. I.D., ASTM D-2865, SCH 40 PVC pipe for pressure applications

## GENERAL NOTES

1. CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 811 AT LEAST 2 FULL WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
2. INFORMATION SHOWN ON THE DRAWINGS RELATING TO MATERIALS, CONDITIONS, AND/OR LOCATIONS OF EXISTING STRUCTURES AND UTILITIES HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING FIELD SURVEY, UTILITY COMPANY AND TOWN RECORD MAPS AND DRAWINGS, AND IS NOT GUARANTEED ACCURATE OR COMPLETE.
3. THE CONTRACTOR SHALL EXCAVATE TEST PITS AS NEEDED OR AS DIRECTED TO VERIFY UTILITY INFORMATION.
4. PASSAGE OF TRAFFIC ON ROADWAYS/DRIVEWAYS: A MINIMUM OF ONE LANE FOR TRAFFIC SHALL BE MAINTAINED THROUGH THE SITE AT ALL TIMES. THE CONTRACTOR SHALL PERFORM HIS OPERATIONS TO MINIMIZE DISRUPTIONS TO TRAFFIC WITHIN THE PROJECT SITE. A SINGLE LANE OF TRAFFIC MUST BE MAINTAINED AT ALL TIMES FOR RESIDENTS, BUSINESSES AND EMERGENCY VEHICLES.
5. THE CONTRACTOR IS REQUIRED TO CHECK WITH THE MONTVILLE POLICE DEPARTMENT FOR ANY TRAFFIC INTERVENTION NEEDED, THE MONTVILLE POLICE DEPARTMENT WILL DETERMINE THE LEVEL AND TYPE OF TRAFFIC PROTECTION NEEDED. CONTINUOUS ACCESS FOR EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIMES.
6. CONSTRUCTION SIGNS MUST CONFORM TO THE SIGNING REQUIREMENTS OUTLINED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)". ALL SIGN FACES SHALL BE REFLECTORIZED.
7. THE CONTRACTOR SHALL CONFINE HIS OPERATIONS AND ACTIVITIES FOR CONSTRUCTION PURPOSES WITHIN THE STREET LINES, EASEMENTS AND PROPERTY AS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING PAVEMENT, ROADWAY, SIDEWALKS, ETC., OUTSIDE OF THE WORK AREA AND SHALL REPAIR SUCH DAMAGE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TEMPORARY AND PERMANENT SUPPORT OF ALL EXISTING UTILITY POLES IN AN ADJACENT TO THE CONSTRUCTION AREA AND SHALL COMPLY WITH ALL THE REQUIREMENTS AND SPECIAL DETAILS FOR THE SUPPORT OF UTILITIES REQUIRED BY UTILITY AGENCIES.
9. MATERIAL STOCKPILE AND STAGING AREAS: THE CONTRACTOR SHALL LOCATE STOCKPILE, MATERIAL STORAGE AND EQUIPMENT STORAGE AREAS AS SHOWN ON THE PLANS. PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL IDENTIFY THESE AREAS AND PROVIDE EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED. ADJUSTMENTS TO THESE LOCATIONS MAY BE MADE IN THE FIELD PROVIDED THAT EROSION AND SEDIMENTATION CONTROL MEASURES ARE FURNISHED & INSTALLED AND IN NO CASE MAY THEY BE LOCATED WITHIN THE 50-FOOT REGULATED AREAS.
10. IF BLASTING IS PERFORMED A PRE-BLAST SURVEY WILL BE REQUIRED. ANY AND ALL BLASTING SHALL CONFORM TO THE REGULATIONS SET FORTH BY THE TOWN AND SHALL BE APPROVED BY THE APPROPRIATE TOWN AGENCIES AND ADJACENT UTILITY OWNERS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESETTLE TO GRADE ALL FRAMES, GRATES, COVERS, VALVE BOXES, ACCESS COVERS, AND ALL OTHER ITEMS WHICH NORMALLY MUST HAVE A FIXED RELATION TO FINISHED GRADE.
12. ALL WORK TO CONFORM TO THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION FORM 819, DATED 2024, AS REVISED.
13. ALL FILL MATERIAL (BORROW) IMPORTED TO THE SITE SHALL BE "CLEAN FILL" IN ACCORDANCE WITH DEEP'S SOLID WASTE MANAGEMENT REGULATIONS (RCSA SECTION 22a-209-1).

## UTILITY NOTES

1. ALL UTILITY AND SERVICE INSTALLATIONS SHALL CONFORM TO THE UTILITY COMPANY REQUIREMENTS AS APPLICABLE.
2. SITE MUST BE AT SUBGRADE BEFORE UTILITIES CAN BE INSTALLED.
3. CONTRACTOR TO COORDINATE GAS/ELECTRIC INSTALLATION WORK WITH UTILITY COMPANY (IF APPLICABLE).

## CONSTRUCTION SEQUENCE

IT IS ANTICIPATED THAT THE CONSTRUCTION ACTIVITIES WILL BEGIN DURING THE FALL OF 2025 AND WILL BE COMPLETED IN APPROXIMATELY 18 MONTHS.

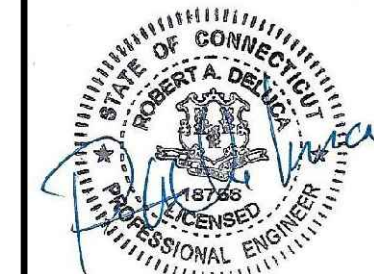
### CONSTRUCTION SEQUENCE:

1. PRIOR TO ANY SITE DISTURBANCE CONTACT "CALL BEFORE YOU DIG" 811 TO MARK EXISTING UTILITY LOCATIONS.
2. INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES PER THE EROSION AND SEDIMENTATION CONTROL PLAN & NARRATIVE, ZONING AND WETLANDS OFFICER SHALL INSPECT PRIOR TO ANY DISTURBANCE.
3. CLEAR AND GRUB THE PROPOSED WORK AREA.
4. CUT & FILL FOR THE DRIVEWAYS, SEPTIC SYSTEMS, AND FOUNDATIONS TO ESTABLISH THE SITE SUBGRADE.
5. INSTALL PROPOSED UNDERGROUND UTILITIES.
6. FINISH GRADE THE DRIVEWAYS PER THE SECTION DETAIL.
7. INSTALL ALL LANDSCAPING. LOAM, SEED, FERTILIZE AND MULCH ALL DISTURBED AREAS AROUND THE ROAD CONSTRUCTION.
8. AFTER ALL DISTURBED AREAS ARE STABILIZED AND WITH PRIOR APPROVAL FROM ZONING AND WETLANDS OFFICER, REMOVE EROSION AND SEDIMENTATION CONTROL MEASURES.



Know what's below.  
Call 811 before you dig.

				<b>CLA Engineers, Inc.</b> CIVIL • STRUCTURAL • SURVEYING	
				317 Main Street Norwich, CT 06360 (860) 886-1966 Fax (860) 886-9165	
2.	6/5/2025	TOWN COMMENTS		Project No. CLA-7885	
1.	5/7/2025	TOWN COMMENTS		Proj. Engineer R.A.D.	
No.	DATE	REVISION		Date: 4/10/2025	
				Sheet No. 8	
				Map 001- Block 007- Lot 00A Silver Falls Road Montville, Connecticut <b>Proposed Subdivision</b> Prepared For <b>Daniela Gjergaj</b> Construction Details	





TEST HOLE DATA:

RECORDED BY ALYSSA BROCHU, REHS/RS  
UNCAS HEALTH DISTRICT  
9/9/2024

TEST HOLE 1

0-8" TOPSOIL  
8"-23" ORANGE/BROWN SANDY LOAM  
23"-47" LIGHT BROWN LOAM  
47"-83" LIGHT BROWN SAND WITH ROCKS

\*SOMEWHAT COMPACT AT 38"

ROOTS TO 32"  
NO MOTTLING OBSERVED  
NO GROUNDWATER OBSERVED  
NO LEDGE OBSERVED  
RESTRICTIVE 83"

TEST HOLE 2

0-7" TOPSOIL  
7"-24" ORANGE/BROWN SANDY LOAM  
24"-86" LIGHT BROWN FINE SAND WITH ROCKS

\*SOMEWHAT COMPACT AT 39"

ROOTS TO 31"  
NO MOTTLING OBSERVED  
NO GROUNDWATER OBSERVED  
NO LEDGE OBSERVED  
RESTRICTIVE 86"

TEST HOLE 3

0-6" TOPSOIL  
6"-23" ORANGE/BROWN SANDY LOAM  
23"-80" LIGHT BROWN COARSE SAND AND GRAVEL

ROOTS TO 23"  
NO MOTTLING OBSERVED  
NO GROUNDWATER OBSERVED  
NO LEDGE OBSERVED  
RESTRICTIVE 80"

TEST HOLE 4

0-7" TOPSOIL  
0"-70" ORANGE/BROWN SANDY LOAM  
30"-79" LIGHT BROWN COARSE SAND AND GRAVEL

ROOTS TO 30"  
NO MOTTLING OBSERVED  
NO GROUNDWATER OBSERVED  
NO LEDGE OBSERVED  
RESTRICTIVE 79"

TEST HOLE 5

0-9" TOPSOIL  
9"-26" ORANGE/BROWN FINE SANDY LOAM  
26"-81" LIGHT BROWN FINE SAND AND GRAVEL

ROOTS THROUGHOUT TOPSOIL LAYER

MOTTLING AT 40"  
NO GROUNDWATER OBSERVED  
NO LEDGE OBSERVED  
RESTRICTIVE 40"

TEST HOLE 6

0-6" TOPSOIL  
6"-34" ORANGE/BROWN FINE SANDY LOAM  
34"-45" LIGHT GREY SILTY LOAM  
45"-70" LIGHT BROWN/GREY FINE SAND

ROOTS THROUGHOUT TOPSOIL LAYER

NO MOTTLING OBSERVED  
NO GROUNDWATER OBSERVED  
NO LEDGE OBSERVED  
RESTRICTIVE 34"

TEST HOLE 7

0-7" TOPSOIL  
7"-27" ORANGE/BROWN FINE SANDY LOAM  
27"-74" LIGHT BROWN COARSE SAND AND GRAVEL WITH ROCKS

ROOTS TO 27"  
NO MOTTLING OBSERVED  
NO GROUNDWATER OBSERVED  
NO LEDGE OBSERVED  
RESTRICTIVE 74"

TEST HOLE 8

0-7" TOPSOIL  
7"-30" ORANGE/BROWN FINE SANDY LOAM  
30"-80" LIGHT BROWN COARSE SAND AND GRAVEL

NO ROOTS OBSERVED  
MOTTLING AT 30"  
NO GROUNDWATER OBSERVED  
NO LEDGE OBSERVED  
RESTRICTIVE 30"

TEST HOLE 9

0-6" TOPSOIL  
6"-27" ORANGE/BROWN SANDY LOAM  
27"-79" LIGHT BROWN TO YELLOW BROWN COARSE SAND AND GRAVEL

ROOTS TO 40"  
NO MOTTLING OBSERVED  
NO GROUNDWATER OBSERVED  
NO LEDGE OBSERVED  
RESTRICTIVE 79"

TEST HOLE 10

0-8" TOPSOIL  
8"-32" ORANGE/BROWN SANDY LOAM  
32"-78" LIGHT BROWN COARSE SAND AND GRAVEL

NO ROOTS OBSERVED  
NO MOTTLING OBSERVED  
NO GROUNDWATER OBSERVED  
NO LEDGE OBSERVED  
RESTRICTIVE 78"

TEST HOLE 11

0-7" TOPSOIL  
7"-27" ORANGE/BROWN SANDY LOAM  
27"-78" LIGHT BROWN COARSE SAND AND GRAVEL

ROOTS TO 33"  
NO MOTTLING OBSERVED  
NO GROUNDWATER OBSERVED  
NO LEDGE OBSERVED  
RESTRICTIVE 78"

TEST HOLE 12

0-7" TOPSOIL  
7"-20" LIGHT BROWN COARSE SAND  
20"-27" BROWN SANDY LOAM  
27"-71" LIGHT BROWN SOARS SAND AND GRAVEL

NO ROOTS OBSERVED  
NO MOTTLING OBSERVED  
NO GROUNDWATER OBSERVED  
NO LEDGE OBSERVED  
RESTRICTIVE 71"

TEST HOLE 13

0-8" TOPSOIL  
8"-31" ORANGE BROWN SANDY LOAM  
31"-79" LIGHT BROWN COARSE SAND AND GRAVEL

ROOTS TO 28"  
NO MOTTLING OBSERVED  
NO GROUNDWATER OBSERVED  
NO LEDGE OBSERVED  
RESTRICTIVE 79"

TEST HOLE 14

0-7" TOPSOIL  
7"-28" ORANGE/BROWN SANDY LOAM  
28"-80" LIGHT BROWN COARSE SAND AND GRAVEL

ROOTS TO 28"  
NO MOTTLING OBSERVED  
NO GROUNDWATER OBSERVED  
NO LEDGE OBSERVED  
RESTRICTIVE 80"

TEST HOLE 15

0-9" TOPSOIL  
9"-35" ORANGE/BROWN SANDY LOAM  
35"-71" LIGHT BROWN COARSE SAND AND GRAVEL

NO ROOTS OBSERVED  
NO MOTTLING OBSERVED  
NO GROUNDWATER OBSERVED  
NO LEDGE OBSERVED  
RESTRICTIVE 71"

TEST HOLE 16

0-3" TOPSOIL  
3"-10" ORANGE/BROWN SANDY LOAM  
10"-90" LIGHT BROWN COARSE SAND AND GRAVEL

NO ROOTS OBSERVED  
NO MOTTLING OBSERVED  
GROUNDWATER SEEPAGE AT 80"  
NO LEDGE OBSERVED  
RESTRICTIVE 80"

PERCOLATION TEST DATA

PT#1  
DEPTH: 24"  
PRESOAK: YES

READING:	CHANGE:
9:16	7.75"
9:20	11.625"
9:24	15"
9:28	17.5"
9:32	19.5"
9:36	21.25"
9:40	22.25"
9:44	23.25"

MIN 9:28 TO 9:40 = 12 MIN  
IN = 17.5 TO 22.25 = 4.75"  
12MIN / 4.75IN = 2.5 MIN/IN

PERCOLATION RATE: 2.5 MIN/IN (1.0-10.0 MIN/IN)

PERCOLATION TEST CONDUCTED BY  
CLA Engineers, Inc. 9/9/2024

PERCOLATION TEST DATA

PT#2  
DEPTH: 24"  
PRESOAK: YES

READING:	CHANGE:
10:15	6.5"
10:19	10"
10:23	13.125"
10:27	16"
10:31	18.25"
10:35	19.75"
10:39	21"
10:43	22.375"
10:47	23.5"
10:51	EMPTY

MIN 10:31 TO 10:43 = 12 MIN  
IN = 18.25 TO 22.375 = 4.125"  
12MIN / 4.75IN = 2.9 MIN/IN

PERCOLATION RATE: 2.9 MIN/IN (1.0-10.0 MIN/IN)

PERCOLATION TEST CONDUCTED BY  
CLA Engineers, Inc. 9/9/2024

PERCOLATION TEST DATA

PT#3  
DEPTH: 25"  
PRESOAK: YES

READING:	CHANGE:
11:20	4"
11:24	7.625"
11:28	10.625"
11:32	13.75"
11:36	17.375"
11:40	20.125"
11:44	21.5"
11:48	23"
11:52	24"

MIN 11:36 TO 11:48 = 12 MIN  
IN = 17.375 TO 23 = 5.625"  
12MIN / 5.625IN = 2.1 MIN/IN

PERCOLATION RATE: 2.1 MIN/IN (1.0-10.0 MIN/IN)

PERCOLATION TEST CONDUCTED BY  
CLA Engineers, Inc. 9/9/2024

PERCOLATION TEST DATA

PT#4  
DEPTH: 24"  
PRESOAK: YES

READING: Too Fast to Measure.

PERCOLATION RATE: FASTER THAN 1 MIN/IN (1.0-10.0 MIN/IN)

PERCOLATION TEST CONDUCTED BY  
CLA Engineers, Inc. 9/9/2024

PERCOLATION TEST DATA

PT#5  
DEPTH: 23.25"  
PRESOAK: YES

READING:	CHANGE:
12:36	6.75"
12:40	12.5"
12:44	15.875"
12:48	18.875"
12:52	19.375"
12:56	20.125"
1:00	20.625"
1:04	21.75"
1:08	22.625"
1:12	EMPTY

MIN 12:48 TO 1:08 = 20 MIN  
IN = 18.875 TO 22.625 = 3.75"  
20MIN / 3.75IN = 5.3 MIN/IN

PERCOLATION RATE: 5.3 MIN/IN (1.0-10.0 MIN/IN)

PERCOLATION TEST CONDUCTED BY  
CLA Engineers, Inc. 9/9/2024

LOT 1  
PRIMARY LEACHING AREA  
4 BEDROOM RESIDENCE  
PERCOLATION RATE: 1-10 MIN./INCH  
LEACHING AREA REQUIRED: 577.5\_SF

USE GST-6218  
EFFECTIVE LEACHING AREA OF TRENCH = 14 SF/LF  
REQUIRED LENGTH = 577.5 SF / 14 SF/LF = 41.25 LF

MLSS CALCULATION  
RESTRICTIVE LAYER @ 79" AT TP#4  
Slope = 15%  
MLSS = NEEDS NOT BE CONSIDERED

PRIMARY SYSTEM  
GST 6218 = USE 1 ROW OF 44 LF  
LEACHING AREA PROVIDED = 616\_SF

RESERVE LEACHING AREA  
SAME AS PRIMARY

LOT 2  
PRIMARY LEACHING AREA  
4 BEDROOM RESIDENCE  
PERCOLATION RATE: 1-10 MIN./INCH  
LEACHING AREA REQUIRED: 577.5\_SF

USE GST-6212  
EFFECTIVE LEACHING AREA OF TRENCH = 10 SF/LF  
REQUIRED LENGTH = 577.5 SF / 10 SF/LF = 57.75 LF

MLSS CALCULATION  
RESTRICTIVE LAYER @ 30" AT TP#6  
Slope = 6.8%  
MLSS = 28X1.75X1=49.0

PRIMARY SYSTEM  
GST 6212 = USE 1 ROW OF 60 LF  
LEACHING AREA PROVIDED = 600\_SF

RESERVE LEACHING AREA  
SAME AS PRIMARY

LOT 3  
PRIMARY LEACHING AREA  
4 BEDROOM RESIDENCE  
PERCOLATION RATE: 1-10 MIN./INCH  
LEACHING AREA REQUIRED: 577.5\_SF

USE GST-6218  
EFFECTIVE LEACHING AREA OF TRENCH = 14 SF/LF  
REQUIRED LENGTH = 577.5 SF / 14 SF/LF = 41.25 LF

MLSS CALCULATION  
RESTRICTIVE LAYER @ 71" AT TP#12  
Slope = 4.1%  
MLSS = NEED NOT BE CONSIDERED

PRIMARY SYSTEM  
GST 6218 = USE 1 ROW OF 44 LF  
LEACHING AREA PROVIDED = 616\_SF

RESERVE LEACHING AREA  
SAME AS PRIMARY

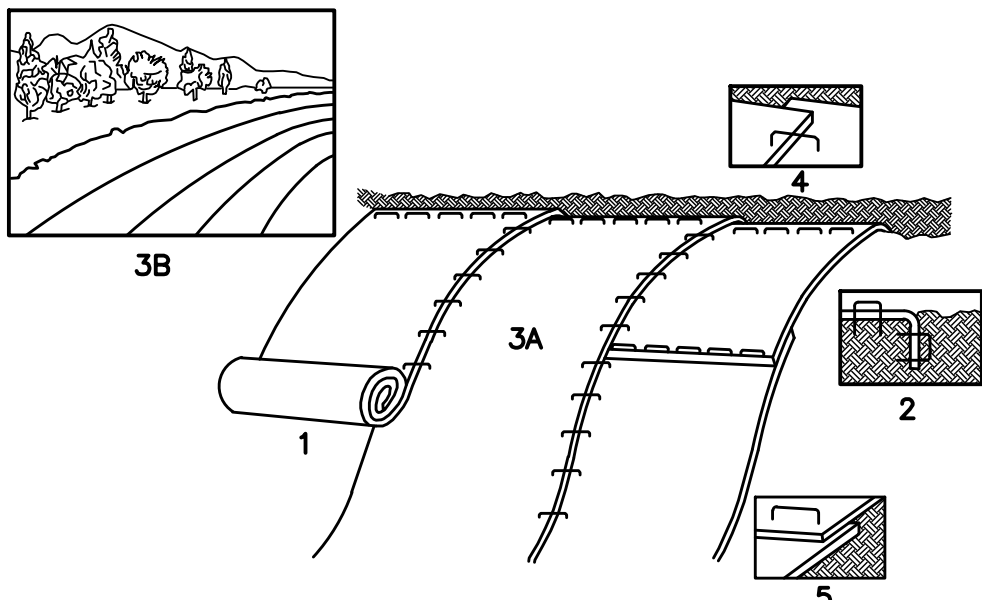
LOT 4  
PRIMARY LEACHING AREA  
4 BEDROOM RESIDENCE  
PERCOLATION RATE: 1-10 MIN./INCH  
LEACHING AREA REQUIRED: 577.5\_SF

USE GST-6218  
EFFECTIVE LEACHING AREA OF TRENCH = 10 SF/LF  
REQUIRED LENGTH = 577.5 SF / 14 SF/LF = 41.25 LF

MLSS CALCULATION  
RESTRICTIVE LAYER @ 71" AT TP#15  
Slope = 6.8%  
MLSS = NEED NOT BE CONSIDERED

PRIMARY SYSTEM  
GST 6218 = USE 1 ROW OF 44 LF  
LEACHING AREA PROVIDED = 616\_SF

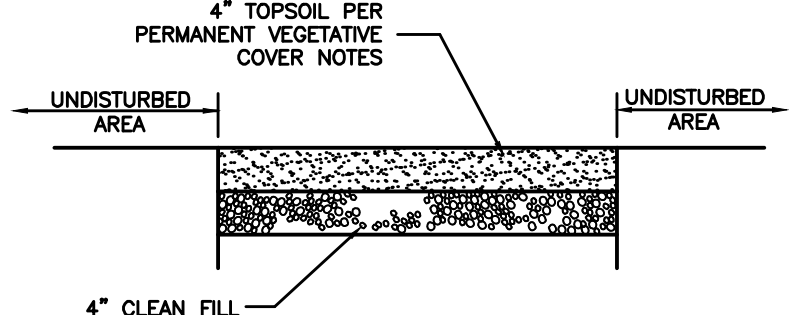
RESERVE LEACHING AREA  
SAME AS PRIMARY



- PROVIDE 4" THICKNESS OF TOPSOIL OVER CLEAN FILL. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED MIX PER PERMANENT VEGETATIVE COVER NOTES. (SHALL BE PAID FOR AT THE UNIT PRICE FOR LOAM, SEED, FERTILIZE & MULCH)
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP x 6" WIDE TRENCH, BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
- ROLL THE BLANKET (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE.
- THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
- WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.

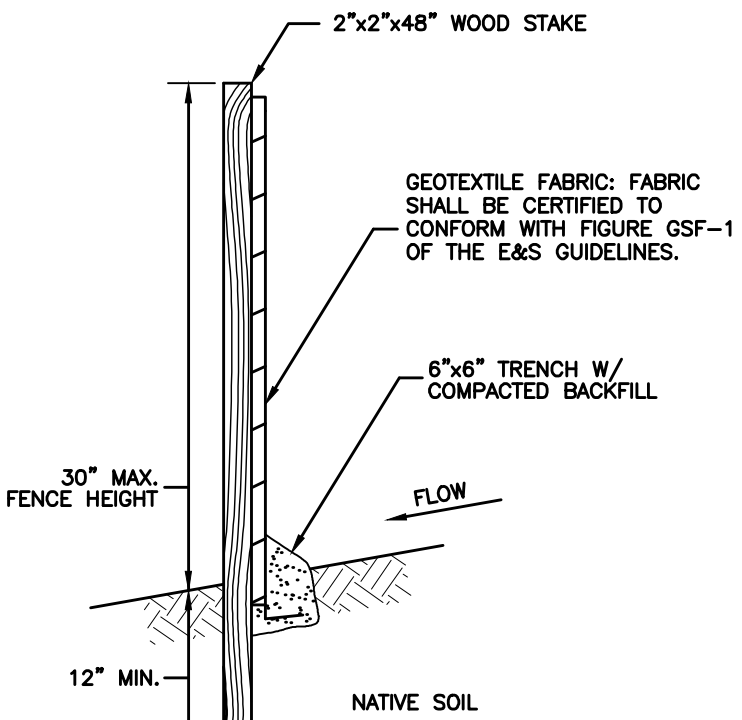
NOTE: ALL PERMANENT EROSION CONTROL BLANKETS ARE TO BE NORTH AMERICAN GREEN BIONET C12581 OR APPROVED EQUAL.

EROSION CONTROL MATTING DETAIL  
(FOR 3:1 SLOPES OR GREATER)

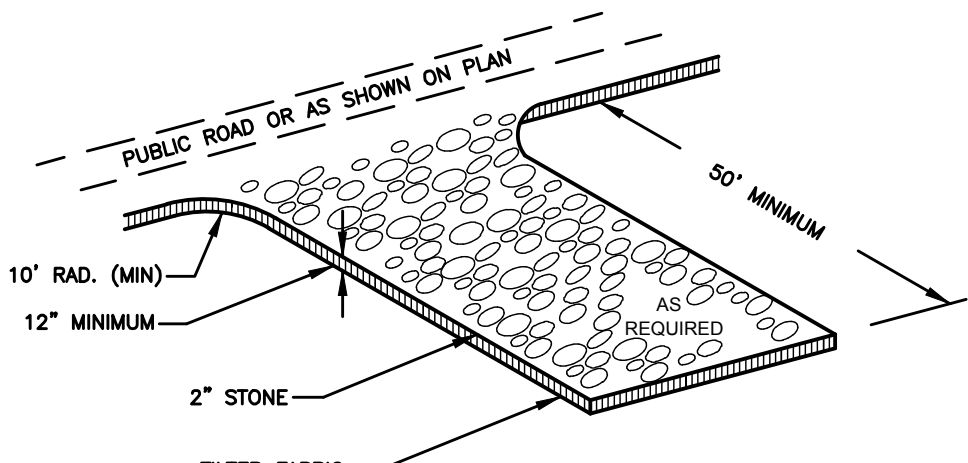


TYPICAL LOAM & SEED SECTION DETAIL  
(FOR ALL DISTURBED AREAS)

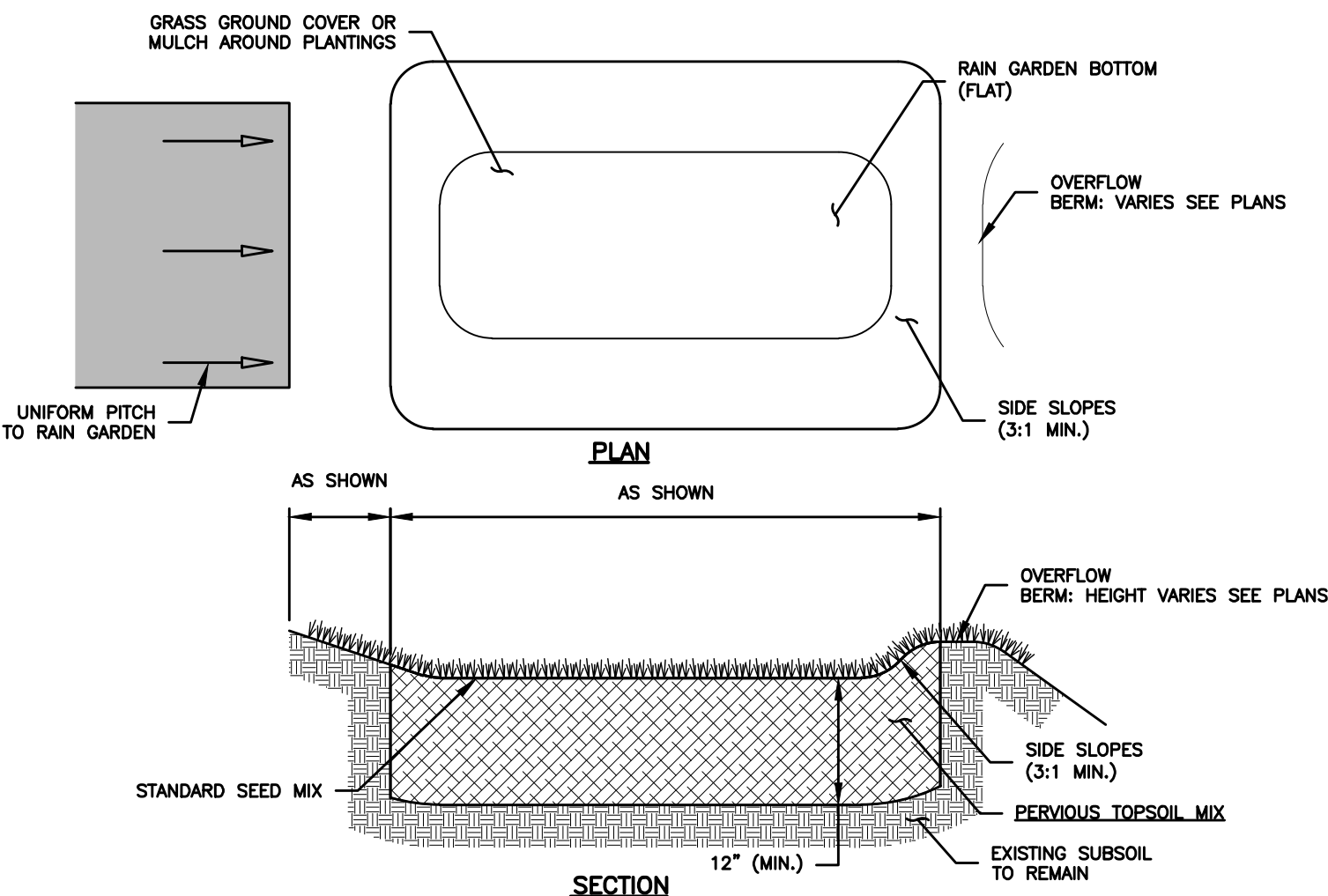
SLOPE STABILIZATION DETAILS  
NOT TO SCALE



SILT FENCE SECTION  
NOT TO SCALE



ANTI-TRACKING PAD DETAIL  
NOT TO SCALE



NOTES:

- PERVIOUS TOPSOIL MIX SHALL MEET THE REQUIREMENTS OF DOT FORM 819, ARTICLE M.13.01.1 WITH THE FOLLOWING GRADATION:

SIZE	% PASSING
#10	100%
#40	60-80%
#60	5%
#200	0%

DO NOT COMPACT MATERIAL DURING INSTALLATION.
- EXCAVATE RAIN GARDEN TO THE GRADES SPECIFIED WITH SIDEWALLS AS NEAR TO VERTICAL AS POSSIBLE. INSTALL PERVIOUS TOPSOIL MIX, DO NOT COMPACT TOPSOIL MIX.
- SEED MIX SHALL CONFORM THE REQUIREMENTS SPECIFIED IN THE VEGETATIVE COVER NARRATIVE HEREIN.

OPERATION AND MAINTENANCE:

- MOW BOTTOM, AS NEEDED.
- REMOVE SEDIMENT AND LEAF LITTER TWICE YEARLY.
  - BETWEEN NOVEMBER 15 AND DECEMBER 15 (AFTER LEAF FALL)
  - DURING APRIL (AFTER SNOW MELT)

TYPICAL RAIN GARDEN DETAILS

NOT TO SCALE

EROSION & SEDIMENTATION CONTROL NARRATIVE

- THE EROSION & SEDIMENTATION CONTROL PLAN AND DETAILS HAVE BEEN DEVELOPED AS A STRATEGY TO CONTROL SOIL EROSION AND SEDIMENTATION DURING AND AFTER CONSTRUCTION. THIS PLAN IS BASED ON THE "2024 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION IN COOPERATION WITH THE CONNECTICUT DEP.
- THE PROPOSED LOCATIONS OF SILTATION AND EROSION CONTROL MEASURES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL PROVIDED SILT FENCE, STONE CHECK DAMS AND/OR OTHER EROSION CONTROL MEASURES AS NEEDED OR DIRECTED BY THE ENGINEER OR TOWN STAFF TO ADEQUATELY PREVENT SEDIMENT TRANSPORT.
- EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO SITE DISTURBANCE. TOWN STAFF TO BE NOTIFIED 48 HOURS IN ADVANCE OF INSTALLATION E&S SO THEY MAY INSPECT.
- THE CONTRACTOR SHALL INSPECT, REPAIR AND/OR REPLACE EROSION CONTROL MEASURES EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT. SEDIMENT DEPOSITS MUST BE REMOVED WHEN WHEN DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPSLOPE ARE PERMANENTLY STABILIZED.
- STAKED HAY BALE SILT BARRIERS OR SILT FENCE SHALL BE INSTALLED AROUND ANY TEMPORARY STOCKPILE AREAS. TEMPORARY VEGETATIVE COVER MAY BE REQUIRED (SEE NOTE).
- INLET SEDIMENTATION CONTROL DEVICES SHALL BE INSTALLED UNDER THE GRATES OF ALL NEW CATCH BASINS AT THE TIME OF INSTALLATION, AND UNDER THE GRATES OF EXISTING CATCH BASINS IN THE CONSTRUCTION AREA.
- CONTINUOUS DUST CONTROL USING WATER SHALL BE PROVIDED FOR ALL EARTH STOCKPILES, EARTH PILED ALONG EXCAVATIONS, SURFACES OF BACKFILLED TRENCHES AND GRAVELED ROADWAY SURFACES.
- IF DEWATERING IS NECESSARY DURING ANY TIME OF CONSTRUCTION A CLEAR WATER DISCHARGE SHALL BE PROVIDED AS SHOWN IN THE HAY-BALE BARRIER DEWATERING DETAIL OR ALTERNATE METHOD PROPOSED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
- WETLAND CROSSINGS WILL BE CONSTRUCTED FROM JUNE 1 TO OCTOBER 1. ALL DISTURBED AREAS SHALL BE RESTORED PER THE SLOPE STABILIZATION AND PERMANENT VEGETATION DETAILS. ALL DISTURBED AREAS THAT ARE SLOPED LESS THAN THREE HORIZONTAL TO ONE VERTICAL (3:1) SLOPE SHALL BE LOAMED, SEEDED, FERTILIZED AND MULCHED PER THE PERMANENT VEGETATIVE COVER SPECIFICATIONS. EROSION CONTROL MATTING SHALL BE PROVIDED ON ALL DISTURBED AREAS THAT ARE SLOPED MORE THAN THREE HORIZONTAL TO ONE VERTICAL (3:1).
- IF FINAL SEDING OF DISTURBED AREAS IS NOT TO BE COMPLETED BEFORE OCTOBER 15, THE CONTRACTOR SHALL PROVIDE TEMPORARY MULCHING (DORMANT SEEDING MAY BE ATTEMPTED AS WELL) TO PROTECT THE SITE AND DELAY PERMANENT SEEDING.
- WHEN FEASIBLE, TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINISHED GRADED SHALL BE COMPLETED PRIOR TO OCTOBER 15.
- ANY EROSION WHICH OCCURS WITHIN THE DISTURBED AREAS SHALL BE IMMEDIATELY REPAIRED AND STABILIZED. DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT SHALL BE RETURNED TO THE SITE. TEST SEEDING, INTERCEPTED SEDIMENT, IF ANY, SHALL BE DISPOSED OF IN A MANNER APPROVED BY THE TOWN AND ENGINEER.
- EROSION AND SEDIMENTATION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL VEGETATION IS RE-ESTABLISHED OR SLOPES ARE STABILIZED AND REMOVAL IS APPROVED BY THE TOWN.
- UNFORESEEN PROBLEMS WHICH ARE ENCOUNTERED IN THE FIELD SHALL BE SOLVED ACCORDING TO THE "2024 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION IN COOPERATION WITH THE CONNECTICUT DEP.
- THE CONTRACTOR SHALL PROVIDE THE NAME AND EMERGENCY CONTACT INFORMATION FOR THE PROJECT PERSONNEL RESPONSIBLE FOR EROSION AND SEDIMENTATION CONTROLS PRIOR TO THE START OF CONSTRUCTION.
- THE WETLANDS ENFORCEMENT OFFICER SHALL BE NOTIFIED AT LEAST 2 BUSINESS DAYS PRIOR TO CONSTRUCTION TO INSPECT EROSION CONTROLS.
- THE WETLAND ENFORCEMENT OFFICER SHALL BE NOTIFIED AT THE COMPLETION OF WORK FOR FINAL INSPECTION AND SIGN OFF OF PERMIT COMPLIANCE.

PERMANENT VEGETATIVE COVER

TOPSOIL WILL BE REPLACED ONCE THE EXCAVATIONS HAVE BEEN COMPLETED AND THE SLOPES ARE GRADED AS SHOWN ON THE PLANS. PROVIDE SLOPE PROTECTION AS CALLED FOR ON THE PLANS AND DETAILS. TOPSOIL SHALL BE SPREAD AT A MINIMUM COMPACTED DEPTH OF 4 INCHES. ONCE THE TOPSOIL HAS BEEN SPREAD, ALL STONES TWO INCHES OR LARGER IN ANY DIMENSION WILL BE REMOVED AS WELL AS DEBRIS.

- APPLY AGRICULTURAL GROUND LESTONE AT THE RATE OF TWO TONS PER ACRE OR 100 LBS. PER 1000 S.F.
- APPLY 10-10-10 FERTILIZER OR EQUIVALENT AT A RATE OF 300 LBS. PER ACRE OR 7.5 LBS. PER 1000 S.F.
- WORK LESTONE AND FERTILIZER INTO THE SOIL TO A DEPTH OF 4 INCHES.
- INSPECT SEEDBED BEFORE SEEDING.
- IF TRAFFIC HAS COMPACTED THE SOIL, RETILL COMPACTED AREAS.
- APPLY THE FOLLOWING GRASS SEED MIX:

TYPICAL SEED MIXTURE

ALL DISTURBED AREAS	LBS./ACRE	LBS./1000 S.F.
KENTUCKY BLUEGRASS	20	0.45
CREeping RED FESCUE	20	0.45
PERENNIAL RYEGRASS	5	0.10
	45	1.00

TYPICAL SEED MIXTURE FOR STEEP SLOPES (2:1 OR GREATER)

CT DEP SEED MIX NO. 6	LBS./ACRE	LBS./1000 S.F.
CREeping RED FESCUE	20	0.50
REDTOP (STRECKER, COMMON)	2	0.05
PERENNIAL RYEGRASS	20	0.50
	42	1.05

THE RECOMMENDED SEEDING DATES ARE:

APRIL 1 - JUNE 15 AND AUGUST 15 - OCTOBER 15

IMMEDIATELY FOLLOWING SEEDING, FIRM SEED BED WITH A ROLLER AND MULCH WITH WEED FREE STRAW. IF PERMANENT VEGETATIVE COVER IS HAS NOT BEEN ESTABLISHED BY OCTOBER 15, APPLY A TEMPORARY VEGETATIVE COVER ON THE TOPSOIL.

TEMPORARY VEGETATIVE COVER

A TEMPORARY SEEDING OF RYE GRASS WILL BE COMPLETED WITHIN 15 DAYS OF THE FORMATION OF STOCKPILES. IF THE SOIL IN THE STOCKPILES HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS IT SHALL BE LOOSENEED TO A DEPTH OF 2 INCHES BEFORE THE FERTILIZER, LIME AND SEED IS APPLIED. 10-10-10 FERTILIZER AT A RATE OF 7.5 POUNDS PER 1000 S.F. LESTONE AT A RATE OF 90 LBS. PER 1000 S.F. SHALL BE USED. RYE GRASS APPLIED AT A RATE OF 1 LB. PER 1000 S.F. SHALL PROVIDE THE TEMPORARY VEGETATIVE COVER. STRAW FREE FROM WEEDS AND COARSE MATTER SHALL BE USED AT A RATE OF 70-90 LBS. PER 1000 S.F. AS A TEMPORARY MULCH. APPLY MULCH AND DRIVE TRACKED EQUIPMENT UP AND DOWN SLOPE OVER ENTIRE SURFACE SO CLEAT MARKS ARE PARALLEL TO THE CONTOURS.

			<b>CLA Engineers, Inc.</b> CIVIL • STRUCTURAL • SURVEYING	
			317 Main Street Norwich, CT 06360 (860) 886-1966 Fax (860) 886-9165	
2.	6/5/2025	TOWN COMMENTS	Map 001- Block 007- Lot 00A Silver Falls Road Montville, Connecticut <b>Proposed Subdivision</b> Prepared For <b>Daniela Gjergaj</b>	
1.	5/7/2025	TOWN COMMENTS		
No.	DATE	REVISION		
Project No. CLA-7885			Date: 4/10/2025	
Sheet No.			9	



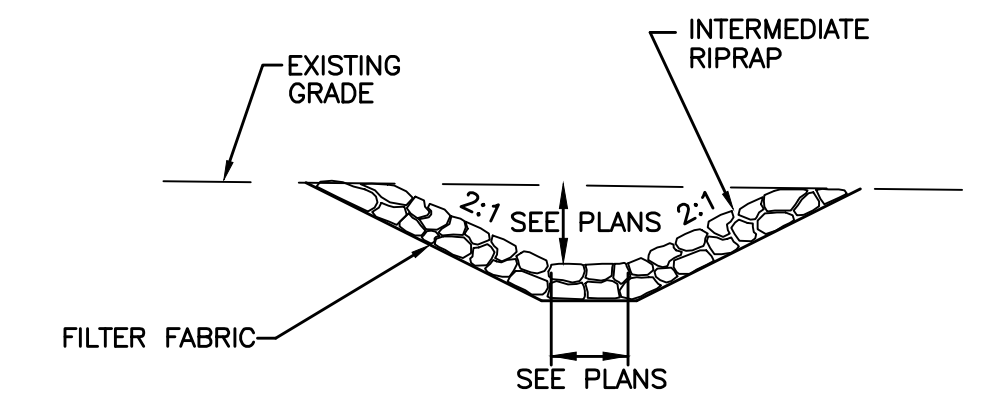
Water Quality Basin Sizing Basin 1	
Sizing in Accordance with Chapter 7.4 of the DEP 2024 Storm Water Quality Manual	
Water Quality Volume (WQV) = (1.3")R(A)/12	
R = 0.05 + 0.009(I)	
I = percent of impervious cover	
A = watershed area	
Total Watershed Area (Ac.):	1.82
Watershed Impervious Area (Ac.):	0.30
I =	16.5%
R =	0.198
Required WQV =	0.039
CF	1,703.6
WQV Provided :	3,100

Water Quality Basin Sizing Basin 2	
Sizing in Accordance with Chapter 7.4 of the DEP 2024 Storm Water Quality Manual	
Water Quality Volume (WQV) = (1.3")R(A)/12	
R = 0.05 + 0.009(I)	
I = percent of impervious cover	
A = watershed area	
Total Watershed Area (Ac.):	2.17
Watershed Impervious Area (Ac.):	0.33
I =	15.2%
R =	0.187
Required WQV =	0.044
CF	1,913.6
WQV Provided :	2,400

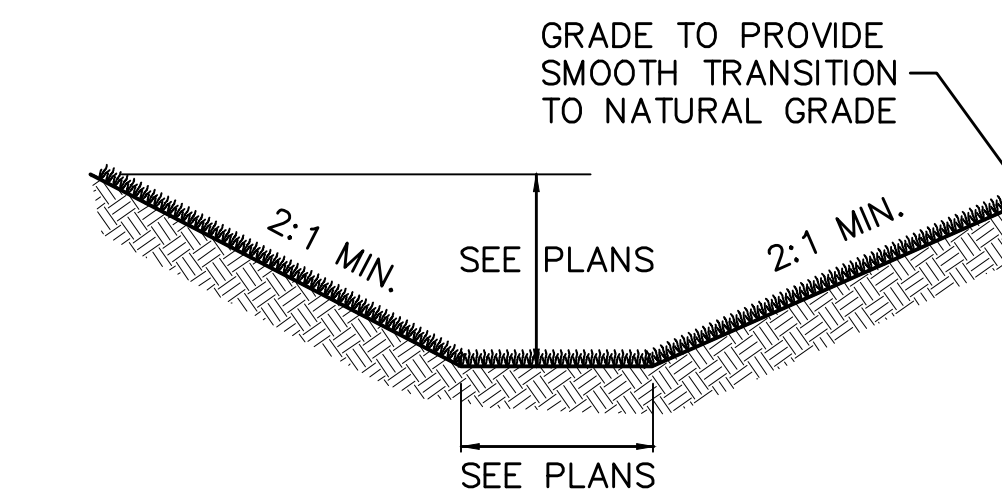
Water Quality Basin Sizing Basin 3	
Sizing in Accordance with Chapter 7.4 of the DEP 2024 Storm Water Quality Manual	
Water Quality Volume (WQV) = (1.3")R(A)/12	
R = 0.05 + 0.009(I)	
I = percent of impervious cover	
A = watershed area	
Total Watershed Area (Ac.):	0.68
Watershed Impervious Area (Ac.):	0.13
I =	19.1%
R =	0.222
Required WQV =	0.016
CF	712.6
WQV Provided :	800

Water Quality Basin Sizing Basin 4	
Sizing in Accordance with Chapter 7.4 of the DEP 2024 Storm Water Quality Manual	
Water Quality Volume (WQV) = (1.3")R(A)/12	
R = 0.05 + 0.009(I)	
I = percent of impervious cover	
A = watershed area	
Total Watershed Area (Ac.):	0.53
Watershed Impervious Area (Ac.):	0.17
I =	31.1%
R =	0.330
Required WQV =	0.019
CF	825.8
WQV Provided :	900

Water Quality Basin Sizing Basin 5	
Sizing in Accordance with Chapter 7.4 of the DEP 2024 Storm Water Quality Manual	
Water Quality Volume (WQV) = (1.3")R(A)/12	
R = 0.05 + 0.009(I)	
I = percent of impervious cover	
A = watershed area	
Total Watershed Area (Ac.):	1.34
Watershed Impervious Area (Ac.):	0.06
I =	4.5%
R =	0.090
Required WQV =	0.013
CF	571.0
WQV Provided :	800

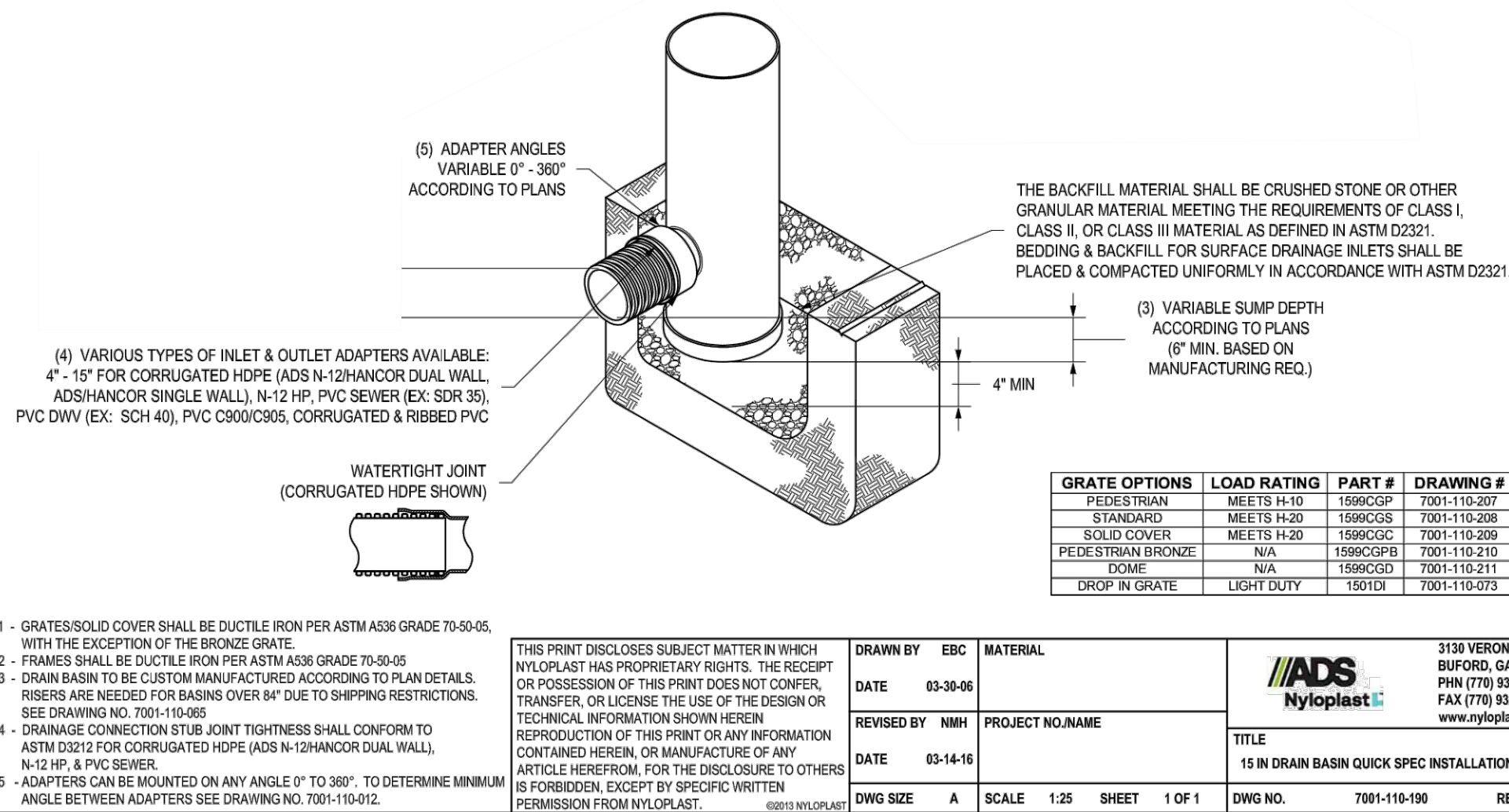


RIPRAP LINED DRAINAGE SWALE  
NOT TO SCALE



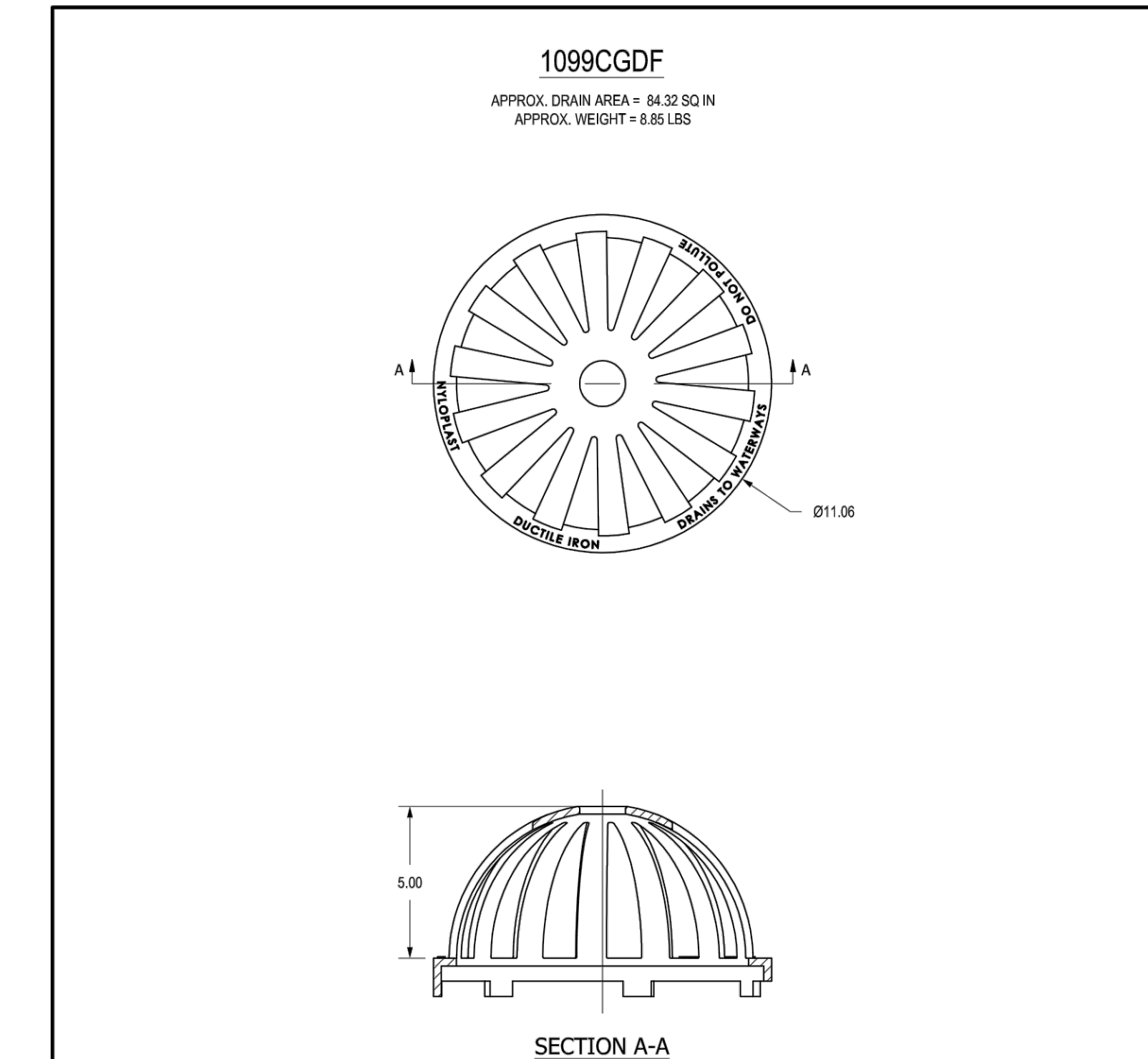
GRASS LINED DRAINAGE SWALE  
NOT TO SCALE

## NYLOPLAST 15" DRAIN BASIN: 2815AG \_ \_ X




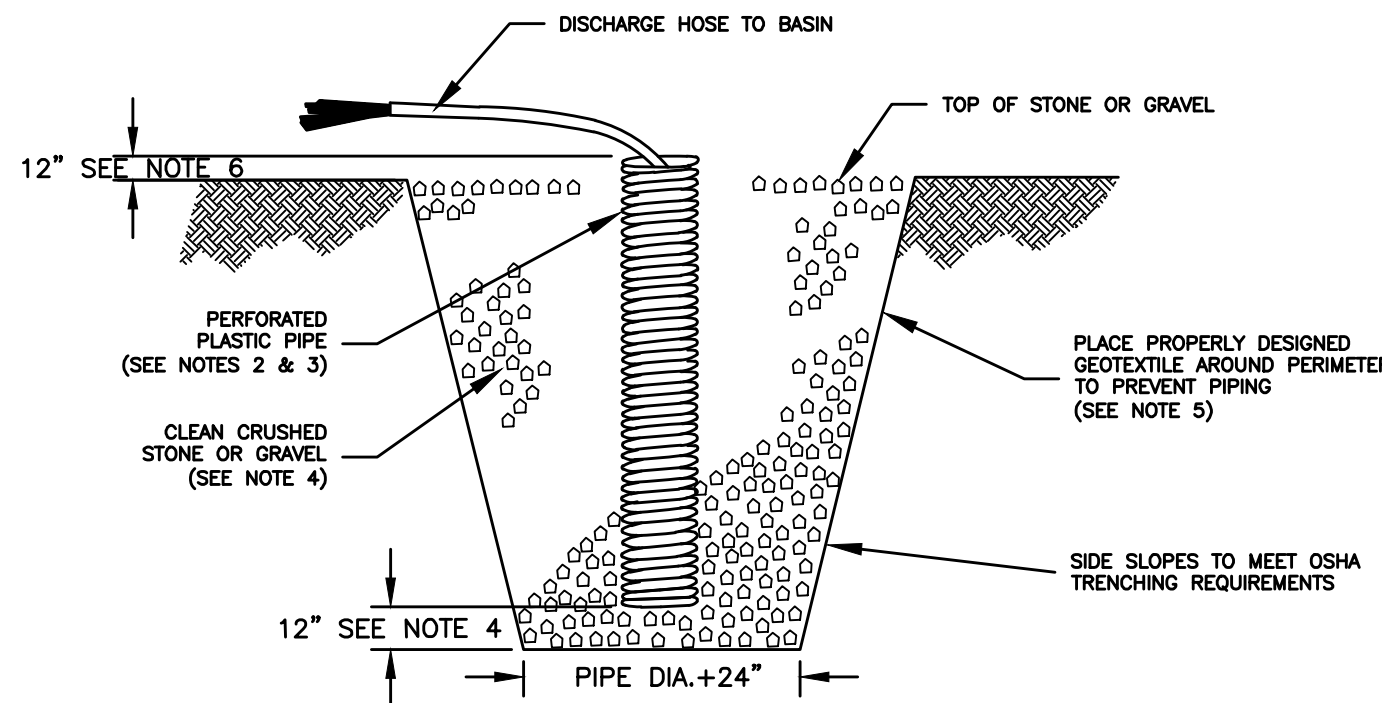
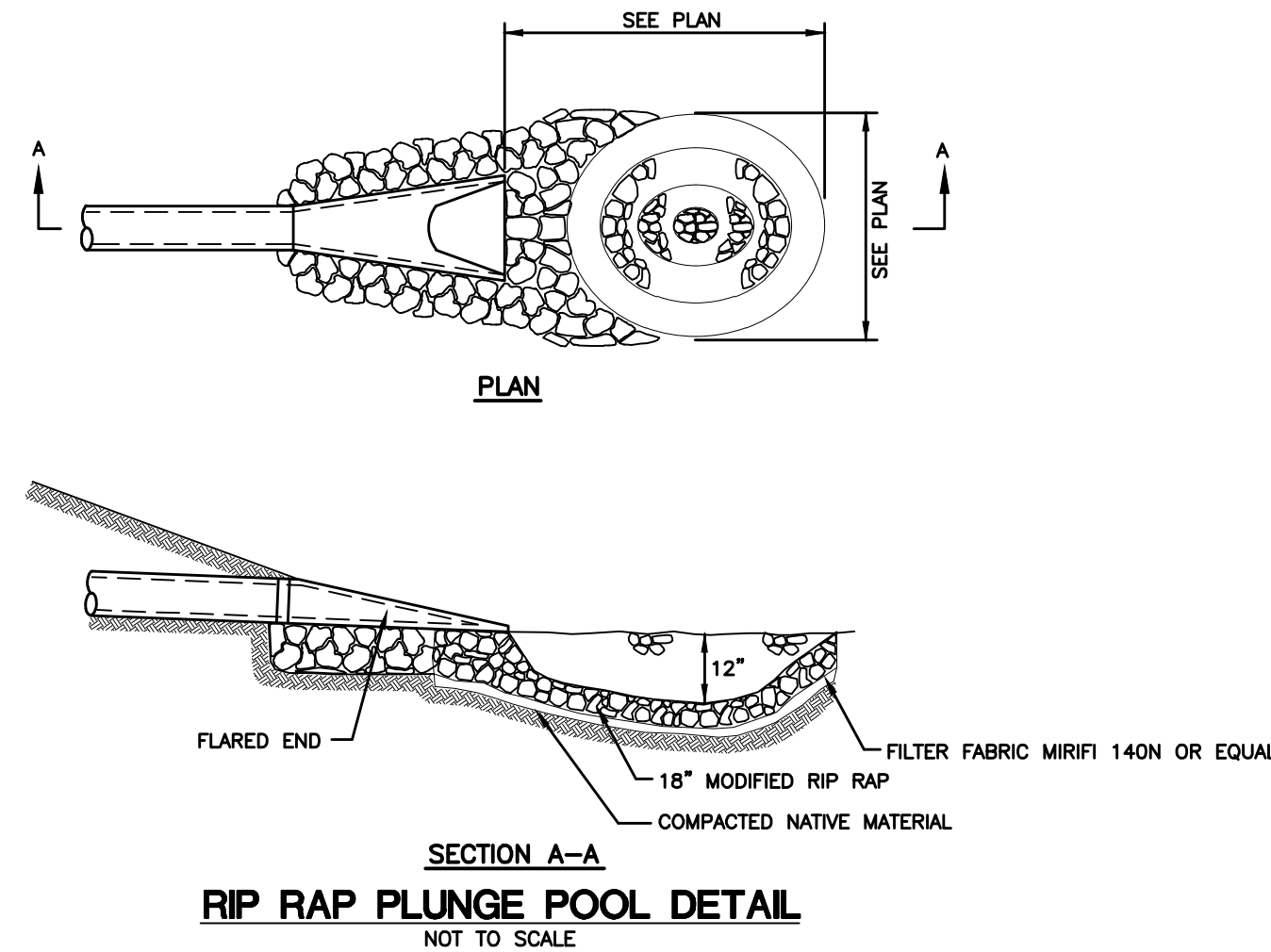
GRATE OPTIONS		LOAD RATING	PART #	DRAWING #
PEDESTAL	MEETS H-10	1599CGR	7001-110-207	
STANDARD	MEETS H-20	1599CGR	7001-110-208	
SOLID COVER	MEETS H-20	1599CGR	7001-110-209	
PEDESTAL BRONZE	N/A	1599CGRB	7001-110-210	
DOME	N/A	1599CGRD	7001-110-211	
DROP IN GRATE	LIGHT DUTY	1521GR	7001-110-203	

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.	THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN.	DRAWN BY: EBC	MATERIAL: DUCTILE IRON	3130 VERONA AVE SUFORD, GA 30518 PHN (770) 933-2443 FAX (770) 933-2400 www.nyloplast-usa.com
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05	REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST.	DATE: 03-30-06	PROJECT NO./NAME	
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE REQUIRED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-060		REVISED BY: NHH		
4 - DRAINAGE CONNECTION STUD JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE ADS N-12/HANDOR DUAL WALL, N-12 HP, & PVC SEWER.		DATE: 03-14-16		
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.		DWG SIZE: A	SCALE: 1:25	SHEET: 1 OF 1
		DWG NO.: 7001-110-190	REV: E	



DIMENSIONS ARE FOR REFERENCE ONLY  
ACTUAL DIMENSIONS MAY VARY  
DIMENSIONS ARE IN INCHES  
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05  
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT  
LOOKING DEVICE AVAILABLE UPON REQUEST

<p>THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN. REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF A TITLE HEREFROM, FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST.</p>	DRAWN BY	NMH	MATERIAL			3130 VERONA AVE BURLING, IA 50518 PHN (770) 933-2443 FAX (770) 932-2460 <a href="http://www.nyloplast-usa.com">www.nyloplast-usa.com</a>
	DATE	6-25-18	DUCTILE IRON			
	REVISED BY	NMH	PROJECT NO./NAME		TITLE	
	DATE	6-25-18			10 IN DOME GRATE ASSEMBLY - TYPE B	
	DWG SIZE	A	SCALE	NTS	SHEET	1 OF 1



- NOTES:
1. OVERALL SUMP PIT DIMENSIONS SHALL BE COMPATIBLE WITH ANTICIPATED SEEPAGE RATES AND PUMP SIZE TO BE USED.
  2. THE STANDPIPE DIAMETER AND NUMBER OF PERFORATIONS SHALL BE COMPATIBLE WITH THE PUMP SIZE BEING USED.
  3. PERFORATIONS IN THE STANDPIPE SHALL BE EITHER CIRCULAR OR SLOTS. PERFORATION SIZE SHALL NOT EXCEED 3/8" DIAMETER.
  4. CRUSHED STONE OR GRAVEL SHALL BE NO SMALLER THAN CT. DOT #67 SIZE NOR LARGER THAN CT. DOT #3 SIZE. CRUSHED STONE SHALL EXTEND A MINIMUM OF 12" BELOW THE BOTTOM OF THE STANDPIPE.
  5. IF EXCESSIVE MOVEMENT OF FINE SOIL PARTICLES FROM THE SURROUNDING EXISTING SOILS IS ANTICIPATED, A PROPERLY DESIGNED GEOTEXTILE SHALL BE PLACED BETWEEN THE EXISTING SOILS AND THE CRUSHED STONE OR GRAVEL BACKFILL. THE STANDPIPE SHALL EXTEND A MINIMUM OF 12" ABOVE THE SURROUNDING GROUND.

TYPICAL DEWATERING INLET DETAIL  
NOT TO SCALE

## NEW ENGLAND WETLAND PLANTS, INC

14 Pearl Lane South Hadley, MA 01075

PHONE: 413-548-8000 FAX 413-549-4000

EMAIL: INFO@NEWP.COM WEB ADDRESS: WWW.NEWP.COM

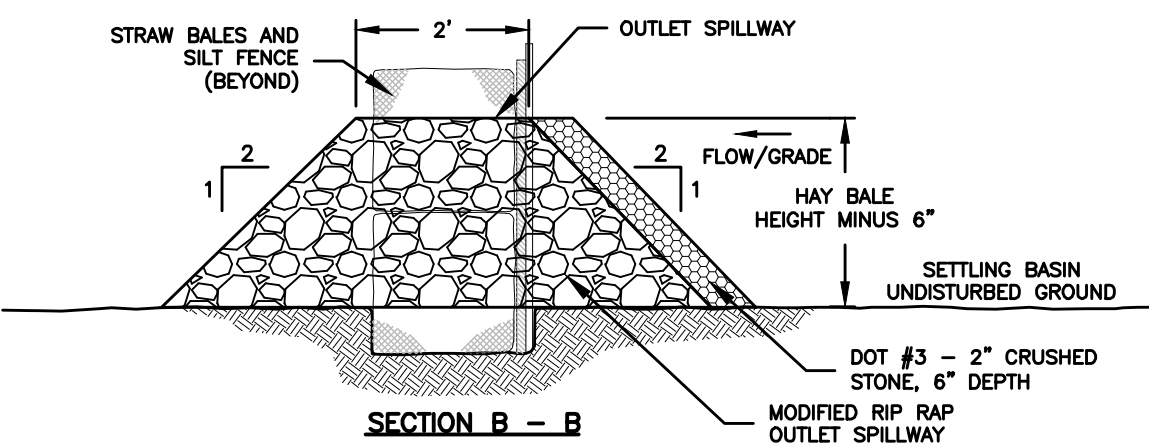
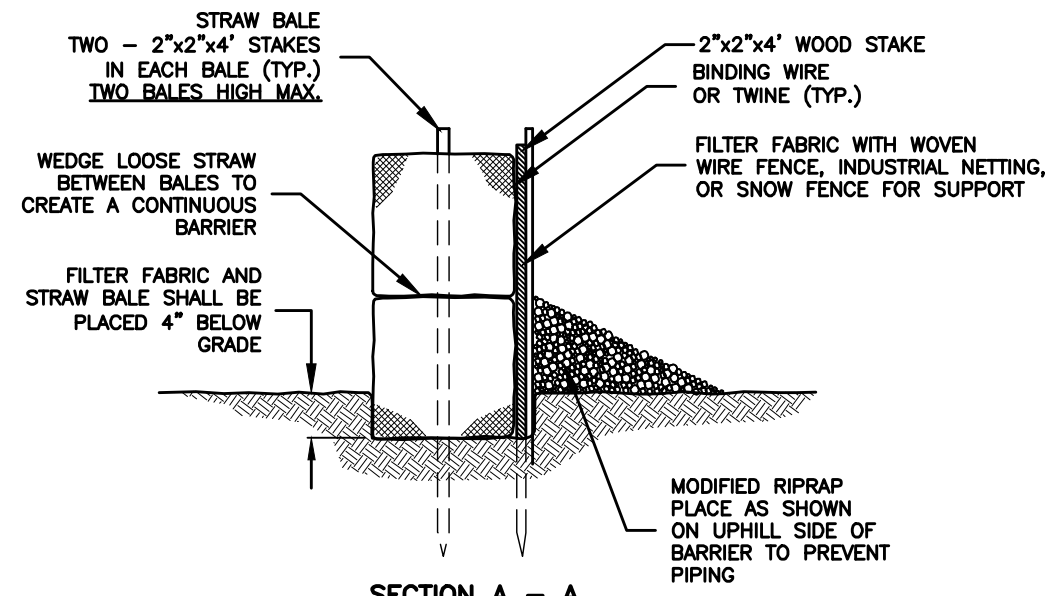
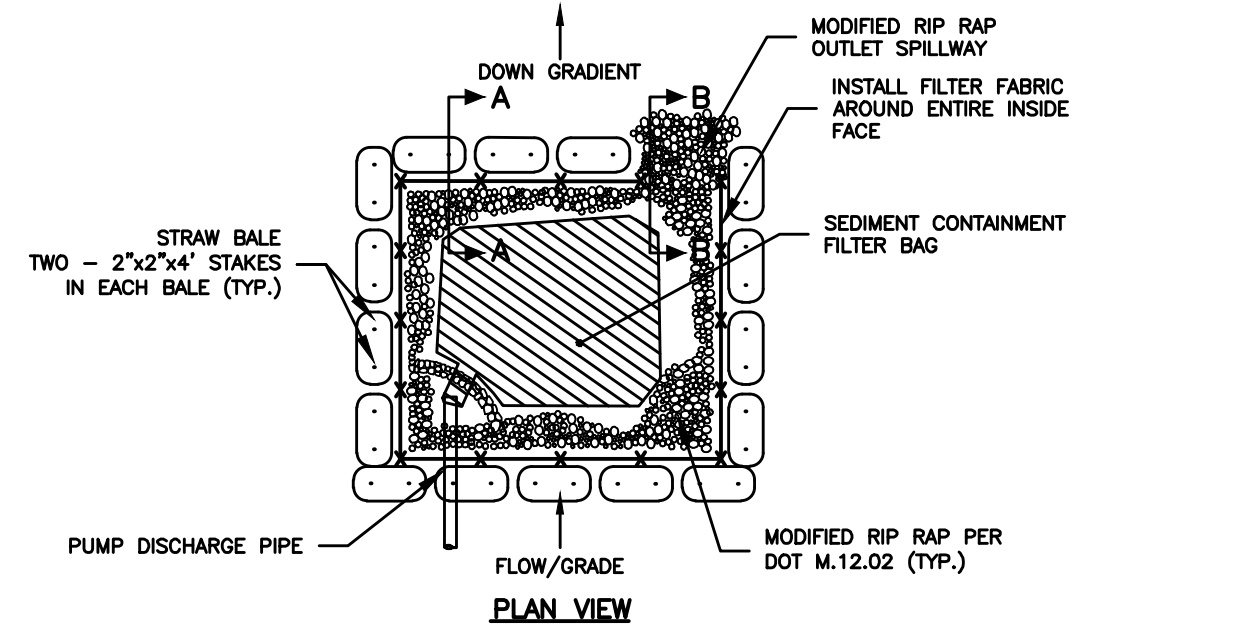
### New England Erosion Control/Restoration Mix For Detention Basins and Moist Sites

Botanical Name	Common Name	Indicator
<i>Elymus riparius</i>	Riverbank Wild Rye	FACW
<i>Schizachyrium scoparium</i>	Little Bluestem	FACU
<i>Festuca rubra</i>	Red Fescue	FACU
<i>Andropogon gerardii</i>	Big Bluestem	FAC
<i>Panicum virgatum</i>	Switch Grass	FAC
<i>Vernonia noveboracensis</i>	New York Ironweed	FACW+
<i>Agrostis perennans</i>	Upland Bentgrass	FACU
<i>Bidens frondosa</i>	Beggar Ticks	FACW
<i>Eupatorium maculatum</i> ( <i>Eutrochium maculatum</i> )	Spotted Joe Pye Weed	OBL
<i>Eupatorium perfoliatum</i>	Boneset	FACW
<i>Aster novae-angliae</i> ( <i>Symphoricaricum novae-angliae</i> )	New England Aster	FACW-
<i>Scirpus cyperinus</i>	Wool Grass	FACW
<i>Juncus effusus</i>	Soft Rush	FACW+

APPLY: 35 LBS/ACRE :1250 sq ft/b

The New England Erosion Control/Restoration Mix for Detention Basins and Moist Sites contains a selection of native grasses and wildflowers designed to colonize generally moist, recently disturbed sites where quick growth of vegetation is desired to stabilize the soil surface. It is an appropriate seed mix for ecologically sensitive restorations that require stabilization as well as long-term establishment of native vegetation. This mix is particularly appropriate for detention basins that do not hold standing water. Many of the plants in this mix can tolerate infrequent inundation, but not constant flooding. The mix may be applied by hand, by mechanical spreader, or by hydro-seeder. After sowing, lightly rake, roll or cultipack to insure good seed-to-soil contact. Best results are obtained with a Spring or late Summer seeding. Late Fall and Winter dormant seeding requires an increase in the application rate. A light mulching of clean, weed-free straw is recommended.

New England Wetland Plants, Inc. may modify seed mixes at any time depending upon seed availability. The design criteria and ecological function of the mix will remain unchanged. Price is 5/bul pound, FOB warehouse, Plus SH and applicable taxes.



### CONSTRUCTION NOTES:

1. SILT FENCE FILTER CLOTH TO BE SECURELY FASTENED TO GRADE STAKE WITH STAPLES, 6" ON CENTER.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN ONE ANOTHER THEY SHALL OVERLAP BY 6" AND BE FOLDED.
3. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.

### DEWATERING PLAN

- A CLEAR WATER DISCHARGE SHALL BE PROVIDED AS FOLLOWS:
1. PUMP INLET SHALL BE PROTECTED WITH FILTER FABRIC & CRUSHED STONE.
  2. PUMP SHALL BE STAGED OUTSIDE OF WETLANDS.
  3. THE WATER SHALL BE PUMPED TO A DEWATERING STRUCTURE WHICH SHALL BE LOCATED AT LEAST 50 FEET FROM ANY REGULATED WETLAND AREA OR AS SHOWN ON THE PLANS.
  4. THE DEWATERING STRUCTURE SHALL BE SIZED TO ACCOMMODATE PUMP DISCHARGE RATE: REQUIRED VOLUME (C.F.) = PUMP DISCHARGE (G.P.M.) x 18
  5. THE DEWATERING STRUCTURE SHALL DISCHARGE TO A VEGETATED AREA.
  6. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN AND PROPERLY DISPOSED OF WHEN ACCUMULATION REACHES HALF OF THE REQUIRED STORAGE VOLUME.
  7. DEWATERING AREA SHALL BE RESTORED WITH NEW ENGLAND EROSION CONTROL SEED MIX.

### HAY BALE BARRIER DE-WATERING DETAIL

NOT TO SCALE

		<b>CLA Engineers, Inc.</b> CIVIL • STRUCTURAL • SURVEYING	
2. 6/5/2025		TOWN COMMENTS	
1. 5/7/2025		TOWN COMMENTS	
No.	DATE	REVISION	
Map 001- Block 007- Lot 00A Silver Falls Road		Project No. CLA-7885	
Montville, Connecticut		Proj. Engineer R.A.D.	
Proposed Subdivision		Date: 4/10/2025	
Prepared For Daniela Gjergaj		Sheet No.	
STORM WATER QUALITY DETAILS		10	