

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND PRESERVATION OF ALL PUBLIC AND PRIVATE UNDERGROUND AND SURFACE UTILITIES AND STRUCTURES AT OR ADJACENT TO THE SITE OF THE CONSTRUCTION INSURANCE AS THEY MAY BE ENDANGERED BY HIS OPERATIONS. THIS SHALL HOLD TRUE WHETHER OR NOT THEY ARE SHOWN ON THE PROPOSED PLAN, IF THEY ARE SHOWN ON THE PROPOSED PLAN THEIR LOCATIONS ARE NOT GUARANTEED EVEN THOUGH THE INFORMATION WAS OBTAINED FROM THE BEST AVAILABLE SOURCES, AND IN ANY EVENT, OTHER UTILITIES NOT SHOWN ON THESE PLANS MAY BE ENCOUNTERED IN THE FIELD. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, REPAIR OR REPLACE ANY STRUCTURES OR UTILITIES THAT HE DAMAGES AND SHALL CONSTANTLY PROCEED WITH CAUTION TO PREVENT UNNECESSARY INTERRUPTIONS TO UTILITY SERVICE.

THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES WHETHER UNDERGROUND OR OVERHEAD AND SHALL MAINTAIN IN PROPER WORKING AND OPERATING CONDITION ALL UTILITIES. IF TEMPORARY UTILITIES CONNECTIONS SERVICES ARE REQUIRED, THE CONTRACTOR SHALL SEE TO IT THAT THEY ARE PROVIDED, AND IT SHALL BE HIS RESPONSIBILITY TO MAINTAIN SUCH TEMPORARY FACILITIES FOR THE DURATION OF THE PROJECT.

THE CONTRACTOR SHALL CONTACT ALL OF THE APPROPRIATE PARTIES WITH JURISDICTION OVER THE UTILITIES ENTERING ON OR NEAR THE PROJECT AREA PRIOR TO THE INITIATION OF CONSTRUCTION ACTIVITIES.

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE STATE OF NEW YORK DEPARTMENT OF LABOR, BOARD OF STANDARDS AND APPEALS INDUSTRIAL CODE RULE 233-CONSTRUCTION, EXCAVATION AND DEMOLITION OPERATIONS AT OR NEAR UNDERGROUND FACILITIES' EFFECTIVE APRIL 1, 1975.

THE CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH ALL APPLICABLE REQUIREMENT OF INDUSTRIAL CODE RULE 233. INFORMATION IS AVAILABLE AT 1-800-682-7982.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED BY THE VILLAGE OF DOBBS FERRY, THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) OR ANY OTHER AGENCY WITH JURISDICTION OVER THE PROJECT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL ARRANGEMENTS FOR ALL NECESSARY INSPECTIONS REQUIRED BY THE VILLAGE OF DOBBS FERRY OR ANY OTHER AGENCY WITH JURISDICTION OVER THIS PROJECT.

THE CONTRACTOR IS RESPONSIBLE FOR THE RESTORATION OR REPLACEMENT OF ALL (OFF-SITE) NATURAL AND MAN MADE FEATURES DISTURBED BY (HIS) CONSTRUCTION ACTIVITIES WHEN SHOWN ON THE PROPOSED PLAN OR ENCOUNTERED IN THE FIELD. IT IS THE INTENTION OF THE PROPOSED PLAN TO SHOW ONLY MAJOR FEATURES TO BE PROTECTED, RESTORED OR REPLACED; HOWEVER, OTHER PHYSICAL FEATURES MAY BE ENCOUNTERED WHICH WILL REQUIRE RESTORATION OR REPLACEMENT WHETHER OR NOT THEY ARE SHOWN ON THE PLAN.

THE CONTRACTOR SHALL VERIFY ALL THE FIELD CONDITIONS AND DIMENSIONS AND SHALL BE RESPONSIBLE FOR FIELD FITTING AND QUANTITY OF WORK. NO ALLOWANCES SHALL BE MADE ON THE BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLECT ON HIS PART.

I HEREBY ACKNOWLEDGE THAT SUBSURFACE INVESTIGATIONS AND BORINGS HAVE NOT BEEN PERFORMED. SUBSURFACE INFORMATION IS NOT AVAILABLE FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL SUBSURFACE CONDITIONS AND SATISFYING ALL CONTRACTUAL CONDITIONS WITH RESPECT TO UNFORESEEN CONDITIONS PRIOR TO ENTERING INTO AGREEMENT TO PERFORM THE WORK SHOWN HEREON.

"THE BUILDING INSPECTOR OR VILLAGE ENGINEER MAY REQUIRE ADDITIONAL EROSION MEASURES, IF DEEMED APPROPRIATE TO MITIGATE UNFORESEEN SILTATION AND EROSION OF DISTURBED SOILS."

"AS-BUILT" DRAWINGS OF THE SITE IMPROVEMENTS SHALL BE SUBMITTED TO THE VILLAGE ENGINEER FOR REVIEW PRIOR TO OBTAINING CERTIFICATED OF OCCUPANCY.

"FILL IMPORTED TO THE SITE SHALL BE CERTIFIED IN WRITING BY A NEW YORK LICENSED PROFESSIONAL ENGINEER AS CLEAN, NON-CONTAMINATED FILL SUITABLE FOR THE INTENDED USE."

"THE RESTORATION FOR WORK PERFORMED WITHIN THE VILLAGE RIGHT - OF WAY SHALL BE PERFORMED TO THE SATISFACTION OF THE VILLAGE ENGINEER AND DEPARTMENT OF PUBLIC WORKS."

"BEFORE THE SITE PLANS ARE SIGNED BY THE CHAIRMAN OF THE PLANNING BOARD, THE APPLICANT SHALL BE REQUIRED TO POST A PERFORMANCE BOND OR OTHER TYPE OF APPLICABLE MONETARY GUARANTY WHICH SHALL BE IN AN AMOUNT DETERMINED BY THE PLANNING BOARD AND THE VILLAGE ENGINEER IN A FORM SATISFACTORY TO THE VILLAGE ATTORNEY."

CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR THE ADS N-12, SOIL-TIGHT (STB) UNDERSTORMWATER STORAGE UNITS, YARD DRAINS AND ALL DRAINAGE WORKS FOR APPROVAL BY THE ENGINEER OF RECORD PRIOR TO FABRICATION.

CONTRACTOR TO CALL FOR AN INSPECTION OF THE UNDERGROUND STORMWATER STORAGE SYSTEM, PIPING AND RELATED APPURTENANCES PRIOR TO BACK-FILLING THE WORKS TO BE INSTALLED. CONTRACTOR TO REQUEST AN INSPECTION OF THE WORKS AT A MINIMUM OF FORTY-EIGHT (48) HOURS PRIOR TO BACK-FILLING THE SYSTEM. THE ENGINEER OF RECORD WILL NOT CONFIRM OR CERTIFY TO THE OWNER, CONTRACTOR OF ANY AGENCY WITH JURISDICTION OVER THE PROJECT THE INSTALLATION WITHOUT PERFORMING THE NECESSARY AND CALLED FOR INSPECTIONS.

KEEP HEAVY EQUIPMENT OFF OF THE FOOT PRINT OF THE ADS N-12 STB SYSTEM.

ALL ADS N-12 STB OR RETENTION UNITS TO BE INSTALLED WITH THE TOP OF THE UNIT SET AT A MINIMUM OF ONE-FOOT, SIX INCHES (1'-6") BELOW THE EXISTING GRADE. (NOT THE PROPOSED GRADE).

ALL FILL MATERIAL AROUND THE UNITS TO BE PLACED IN A LOOSE STATE. DO NOT COMPACT THE FILL AROUND AND ON TOP OF THE UNITS.

SET RIM AND INVERTS AT THE ELEVATIONS SHOWN ON THE PLAN AND GRADE ALL SWALES TO THE CLEAN OUT RISERS.

PROTECT ALL ADS N-12 STB DETENTION/RETENTION SYSTEMS WITH HAY BALES AND SILT FENCE DURING CONSTRUCTION OPERATIONS AND COVER RISER CLEAN OUT INLET WITH FILTER-FABRIC UNTIL THE SITE IS STABILIZED WITH LAWN OR SOD AND LANDSCAPED.

PROVIDE INLET PROTECTION FOR ALL DROP INLETS, YARD DRAINS, DRAIN MANHOLES AND CATCH BASINS UNTIL THE SITE IS STABILIZED WITH LAWN OR SOD AND LANDSCAPED

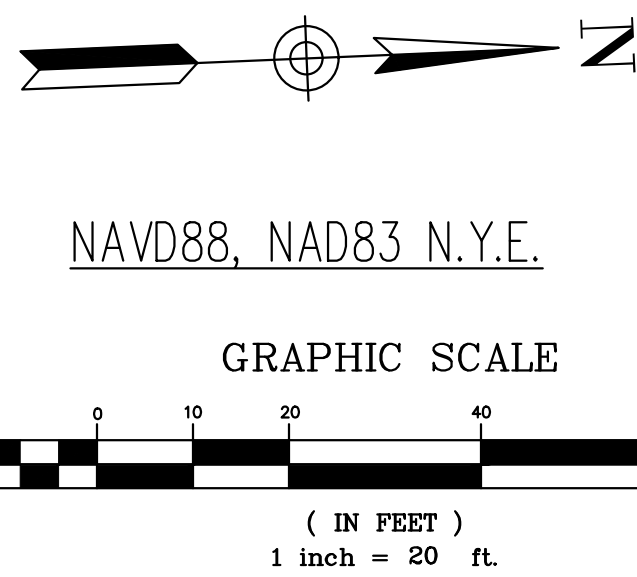
1. THE CONTRACTOR WILL ADHERE TO PROCEDURES AS SET FORTH IN THE WESTCHESTER COUNTY BEST MANAGEMENT PRACTICES MANUAL.
2. IMMEDIATELY AFTER SITE CLEARING AND GRUBBING ACTIVITIES HAVE BEEN COMPLETED THE CONTRACTOR SHALL INSTALL THE FILTER FABRIC EROSION CONTROL FENCE AS SHOWN.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE FOR EROSION CONTROL THROUGHOUT THE DURATION OF THE PROJECT. THIS SHALL INCLUDE, BUT IS NOT LIMITED TO, THE MAINTENANCE OF THE SITE ENTRANCE STONE FILTER APRONS, THE FILTER FABRIC CONTROL.
4. FENCING, DETENTION PONDS, DRAINAGE STRUCTURES AND STOCKPILE EROSION CONTROL MEASURES, UNDER NO CIRCUMSTANCE SHALL THE CONTRACTOR LEAVE CONSTRUCTION SURFACES OR ADJACENT DISTURBED SURFACES VULNERABLE TO EROSION. UNNECESSARY EROSION SHALL BE PREVENTED BY BACK FILLING, GRADING SEEDING, AND HAYING CONSTRUCTION SURFACES AND MAINTAIN EROSION CONTROL MEASURES ON A DAILY BASIS.
5. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED FOR PERFORMANCE ON A WEEKLY BASIS AND DURING AND AFTER MAJOR STORMS TO DETERMINE IF THEY ARE MITIGATING EROSION. THE CONTRACTOR SHALL MAKE ANY NECESSARY REVISIONS TO THE PROPOSED "SITE, DRAINAGE & GRADING PLAN", "GRADING, DRAINAGE & TREE PRESERVATION PLAN" OR THE "GRADING, DRAINAGE & EROSION CONTROL PLAN" AS CALLED FOR BY THE ENGINEER OF RECORD. THE TOWNSHIP OF WILMINGTON DEPARTMENT OF PUBLIC WORKS OR BUILDING DEPARTMENT, NYSOTD, WESTCHESTER COUNTY DEPARTMENT OF PUBLIC WORKS OR ANY OTHER AGENCY WITH JURISDICTION OVER THIS PROJECT.
6. ALL DISTURBED SURFACES SHALL BE RESTORED IN ACCORDANCE WITH NOTE 4 AS SOON AS POSSIBLE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND PRESERVATION OF ALL PUBLIC AND PRIVATE UNDERGROUND AND SURFACE UTILITIES AND STRUCTURES AT OR ADJACENT TO THE SITE OF THE CONSTRUCTION INsofar as they may BE ENDANGERED BY HIS OPERATIONS. THIS SHALL HOLD TRUE WHETHER OR NOT THEY ARE SHOWN ON THE PROPOSED PLAN. IF THEY ARE SHOWN ON THE PROPOSED PLAN THEIR LOCATIONS ARE NOT GUARANTEED EVEN THOUGH THE INFORMATION WAS OBTAINED FROM THE BEST AVAILABLE SOURCES, AND IN ANY EVENT, OTHER UTILITIES NOT SHOWN ON THESE PLANS MAY BE ENCOUNTERED IN THE FIELD. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, REPAIR OR REPLACE ANY STRUCTURES OR UTILITIES THAT ARE DAMAGED AND SHALL CONSTANTLY PROCEED WITH CAUTION TO PREVENT UNWANTED INTERFERENCE TO UTILITY SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXISTING UTILITIES WHETHER UNDERGROUND OR OVERHEAD AND SHALL MAINTAIN IN PROPER WORKING AND OPERATING CONDITION ALL UTILITIES. IF TEMPORARY UTILITIES CONNECTIONS SERVICES ARE REQUIRED, THE CONTRACTOR SHALL SEE TO IT THAT THEY ARE PROVIDED, AND IT SHALL BE HIS RESPONSIBILITY TO MAINTAIN SUCH TEMPORARY FACILITIES FOR THE DURATION OF THE PROJECT.

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THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE NYC DEPARTMENT OF DESIGN AND CONSTRUCTION CODE RULE 753; "CALL BEFORE YOU DIG" INFORMATION IS AVAILABLE AT 811.

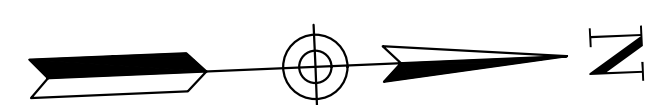
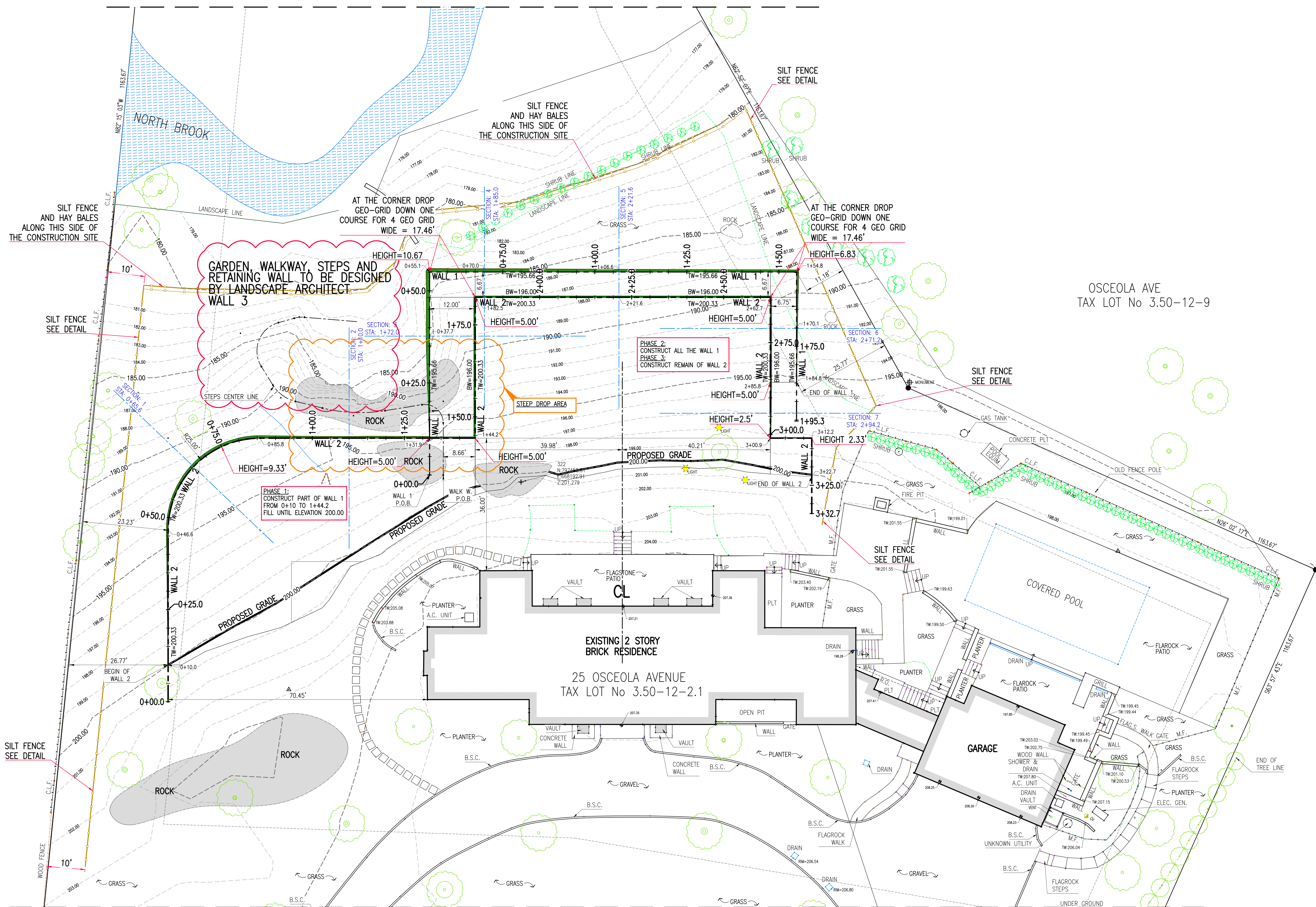
THE ACTUAL SURVEY WAS MADE WITHOUT THE BENEFIT OF UPDATED UTILITIES MARKOUT



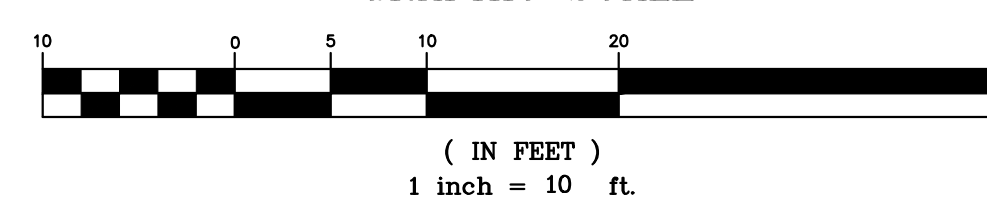
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK.
COUNTY SHEET No. 61 BLOCK No. 5831
SAID MAP FIELD AS MAP No. 28377, ON JUNE 10, 2010
IN THE WESTCHESTER COUNTY CLERK'S OFFICE
DIVISION OF LAND RECORD.

	MAJOR CONTOUR
	MINOR CONTOUR
	PROPOSED GRADE
TC:	TOP OF CURB
BC:	BOTTOM OF CURB
TW	TOP OF WALL
BW	BOTTOM OF WALL
	SPOT ELEVATION
	MONUMENT
	DRAINLINE
	SANITARY SEWER LINE
	WATER MAIN
	HOUSE SEWER SERVICE
	SEWER MANHOLE
	WATER MANHOLE
	TELEPHONE MANHOLE
	DRAIN MANHOLE
	MANHOLE
	CATCH BASIN
	DROP INLET
	AC UNIT
	GENERATOR
	PROPERTY CORNER
	GAS VALVE
	HYDRANT
	UTILITY POLE
	CHAIN LINK FENCE
	OVER HEAD WIRES
	SEWER CLEAN OUT
	WATER VALVE
	LIGHT POLE
	CURB
	STONE WALL
	MESA STANDARD UNIT WALL
	STABILIZED CONSTRUCTION ENTRANCE
	TREE
	STOCK PILE
	TREE PROTECTION

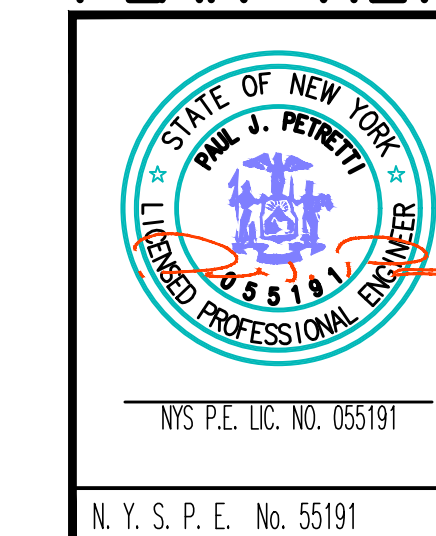
		REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">NO.</th> <th style="width: 10%;">DATE</th> <th style="width: 80%;">DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO.	DATE	DESCRIPTION										SITE IMPROVEMENT LEVEL REAR YARD PREPARED FOR: JULIE & MICHAEL CIVALE 25 OSCEOLA AVENUE, VILLAGE OF DOBBS FERRY, WESTCHESTER COUNTY, NEW YORK	01 09
NO.	DATE	DESCRIPTION														
N.Y.S. L.S.No. 49371	N.Y.S.P.E. No. 55191	ORIGINAL: DECEMBER 22, 2022	PAUL J. PETRETTI CIVIL ENGINEER & LAND SURVEYOR 30 GOULD AVENUE, DOBBS FERRY, NEW YORK 10522	CIVIL ENGINEERING – LAND SURVEYING & MAPPING – SITE DESIGN & PLANNING ENVIRONMENTAL & GEOTECHNICAL – DRAINAGE & STORMWATER QUALITY EROSION & SEDIMENT CONTROL STORMWATER POLLUTION PREVENTION PLANS Phone Number 914-674-9827 Cell 914-672-1518 E-Mail: PAJPC@GMAIL.COM												



NAVD88, NAD83 N.Y.E.
GRAPHIC SCALE



PLAN VIEW OF RETAINING WALL



REVISIONS		
NO.	DATE	DESCRIPTION
01	...	FIELD CHECK
02	03.08.23	WALL HEIGHT NOTES

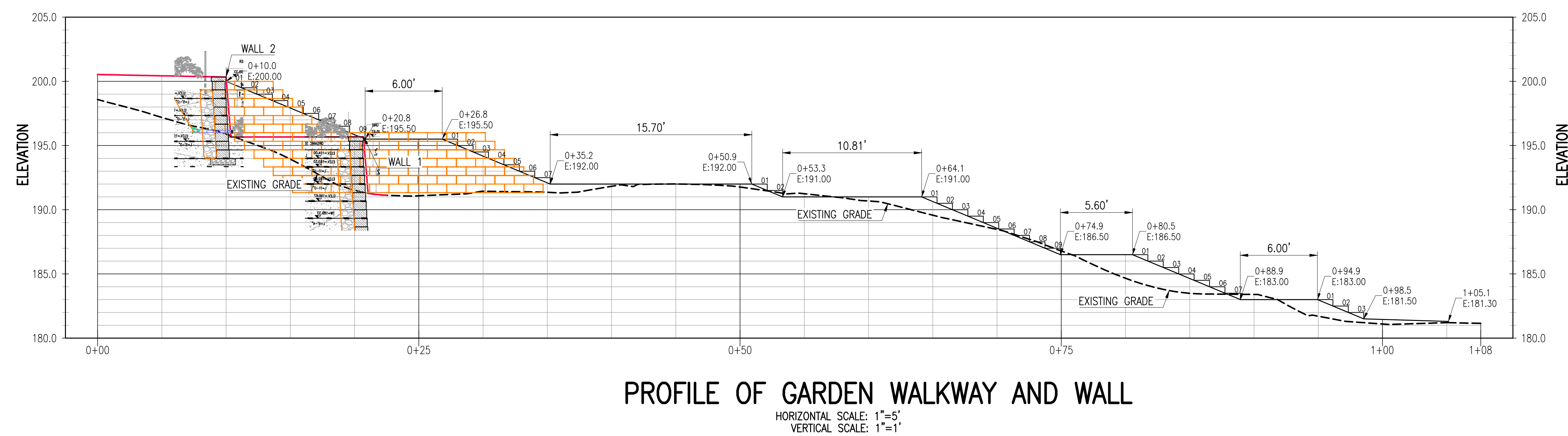
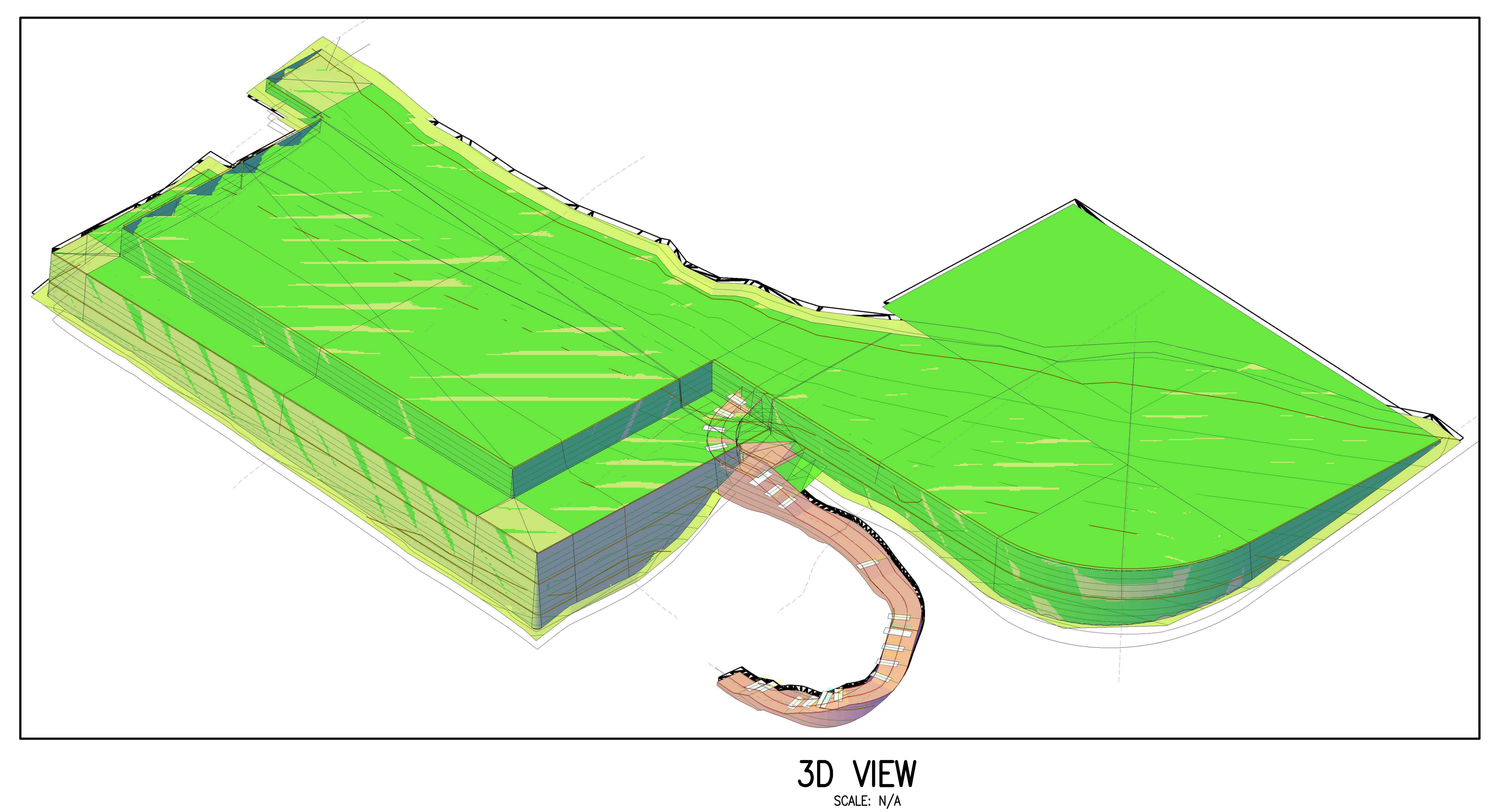
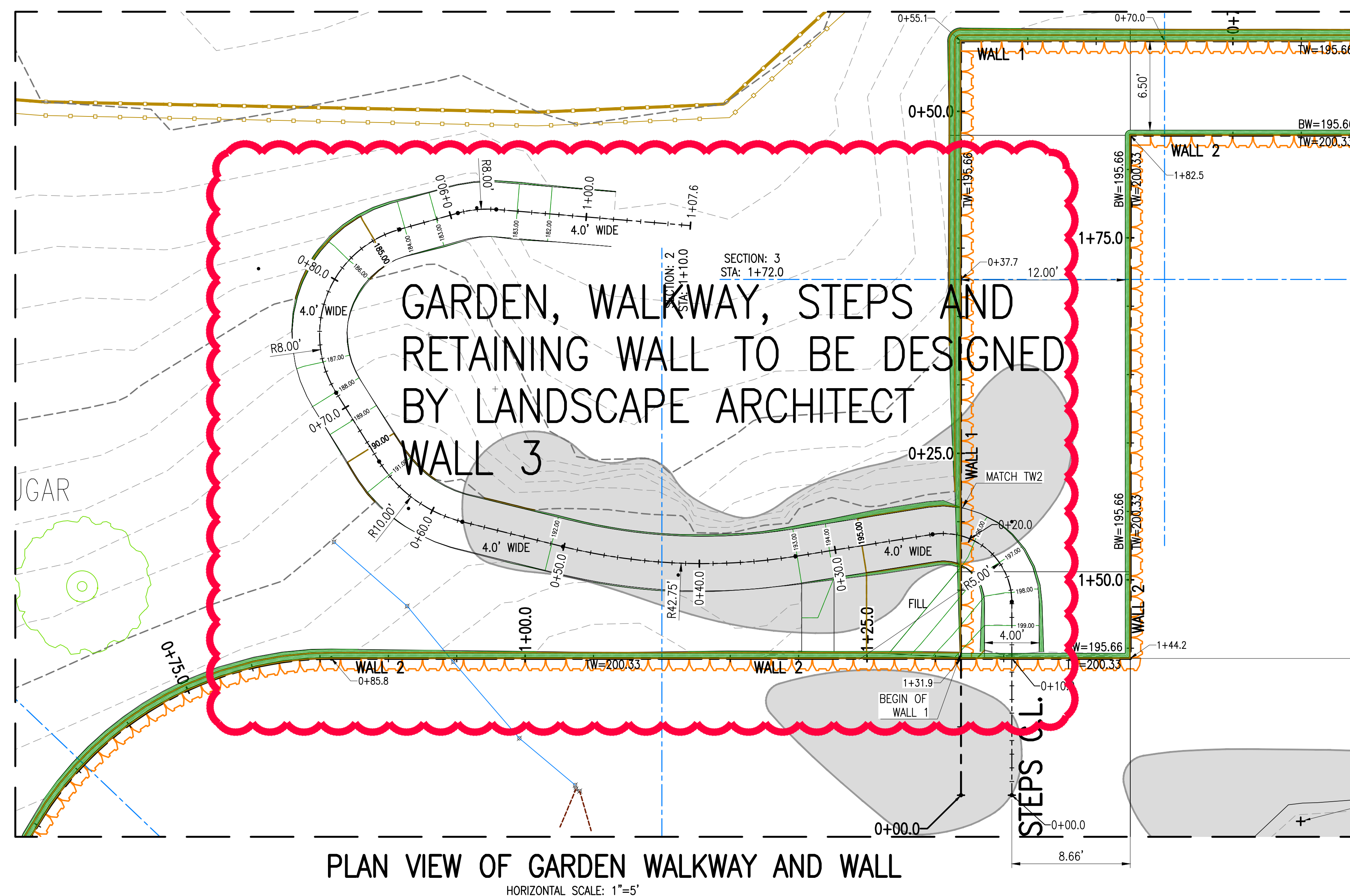
SITE IMPROVEMENT LEVEL REAR YARD

PREPARED FOR
JULIE & MICHAEL CIVALE
25 OSCEOLA AVENUE, VILLAGE OF DOBBS FERRY,
WESTCHESTER COUNTY, NEW YORK

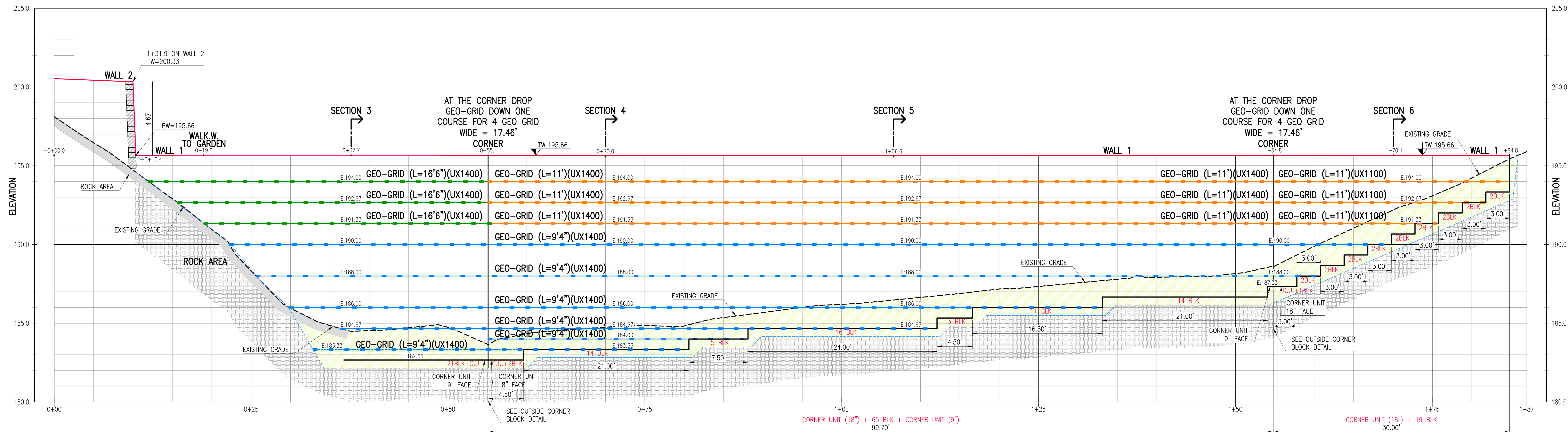
PAUL J. PETRETTI
CIVIL ENGINEER & LAND SURVEYOR
30 GOLD AVENUE, DOBBS FERRY, NEW YORK 10522.
Phone Number 914-674-3827

CIVIL ENGINEERING - LAND SURVEYING & MAPPING - SITE DESIGN & PLANNING
ENVIRONMENTAL & GEOTECHNICAL - DRAINAGE & STORMWATER QUALITY
EROSION & SEDIMENT CONTROL STORMWATER POLLUTION PREVENTION PLANS
E-Mail: PJP@CIVILS80.COM
Cell: 914-672-1518

02
09



GARDEN WALKWAY AND WALL					
 NYS P.E. LIC. NO. 055191	REVISIONS			SITE IMPROVEMENT LEVEL REAR YARD PREPARED FOR JULIE & MICHAEL CIVALE 25 OSCEOLA AVENUE, VILLAGE OF DOBBS FERRY, WESTCHESTER COUNTY, NEW YORK	03 09
	NO.	DATE	DESCRIPTION		
N. Y. S. P. E. No. 55191	ORIGINAL: DECEMBER 22, 2002			PAUL J. PETRETTI CIVIL ENGINEER & LAND SURVEYOR 30 GOLD AVENUE, DOBBS FERRY, NEW YORK 10522	CIVIL ENGINEERING – LAND SURVEYING & MAPPING – SITE DESIGN & PLANNING ENVIRONMENTAL & GEOTECHNICAL – DRAINAGE & STORMWATER QUALITY EROSION & SEDIMENT CONTROL STORMWATER POLLUTION PREVENTION PLANS Phone Number 914-674-3827 Cell 914-672-1518 E-Mail: PAJPC3@aol.com



PROFILE OF WALL 1

HORIZONTAL SCALE: 1"=5'
VERTICAL SCALE: 1"=1'

GRID SUMMARY WALL 1								
WALL	ELEVATION	STA BEG	STA END	EMBEDMENT LENGTH	UX TYPE	LENGTH	AREA	
1	194.00	TERRAIN	0+55.1	16'	6"	1400	43.12	711.48'
1	192.67	TERRAIN	0+55.1	16'	6"	1400	39.40	650.10'
1	191.33	TERRAIN	0+55.1	16'	6"	1400	36.09	595.47'
1	194.00	0+55.1	1+54.8	11'	0"	1400	99.70	1096.70'
1	192.67	0+55.1	1+54.8	11'	0"	1400	99.70	1096.70'
1	191.33	0+55.1	1+54.8	11'	0"	1400	99.70	1096.70'
1	194.00	1+54.8	TERRAIN	11'	0"	1100	30.00	330.00'
1	192.67	1+54.8	TERRAIN	11'	0"	1100	27.00	297.00'
1	191.33	1+54.8	TERRAIN	11'	1"	1100	21.00	232.75'
1	190.00	TERRAIN	TERRAIN	9'	4"	1400	147.54	1377.00'
1	188.00	TERRAIN	TERRAIN	9'	4"	1400	135.17	1261.56'
1	186.00	TERRAIN	TERRAIN	9'	4"	1400	103.22	963.41'
1	184.67	TERRAIN	TERRAIN	9'	4"	1400	75.75	706.97'
1	184.00	0+55.1	TERRAIN	9'	4"	1400	33.00	308.00'
1	183.33	TERRAIN	TERRAIN	9'	4"	1400	47.70	445.20'
UXTYPE SQ. FEET SQ. YARDS								
1400	10,309	1,145						
1100	860	96						

NOTE: LENGTH MAY VARY IN FIELD AS PER ROCK AND ENGINEER RECORDS

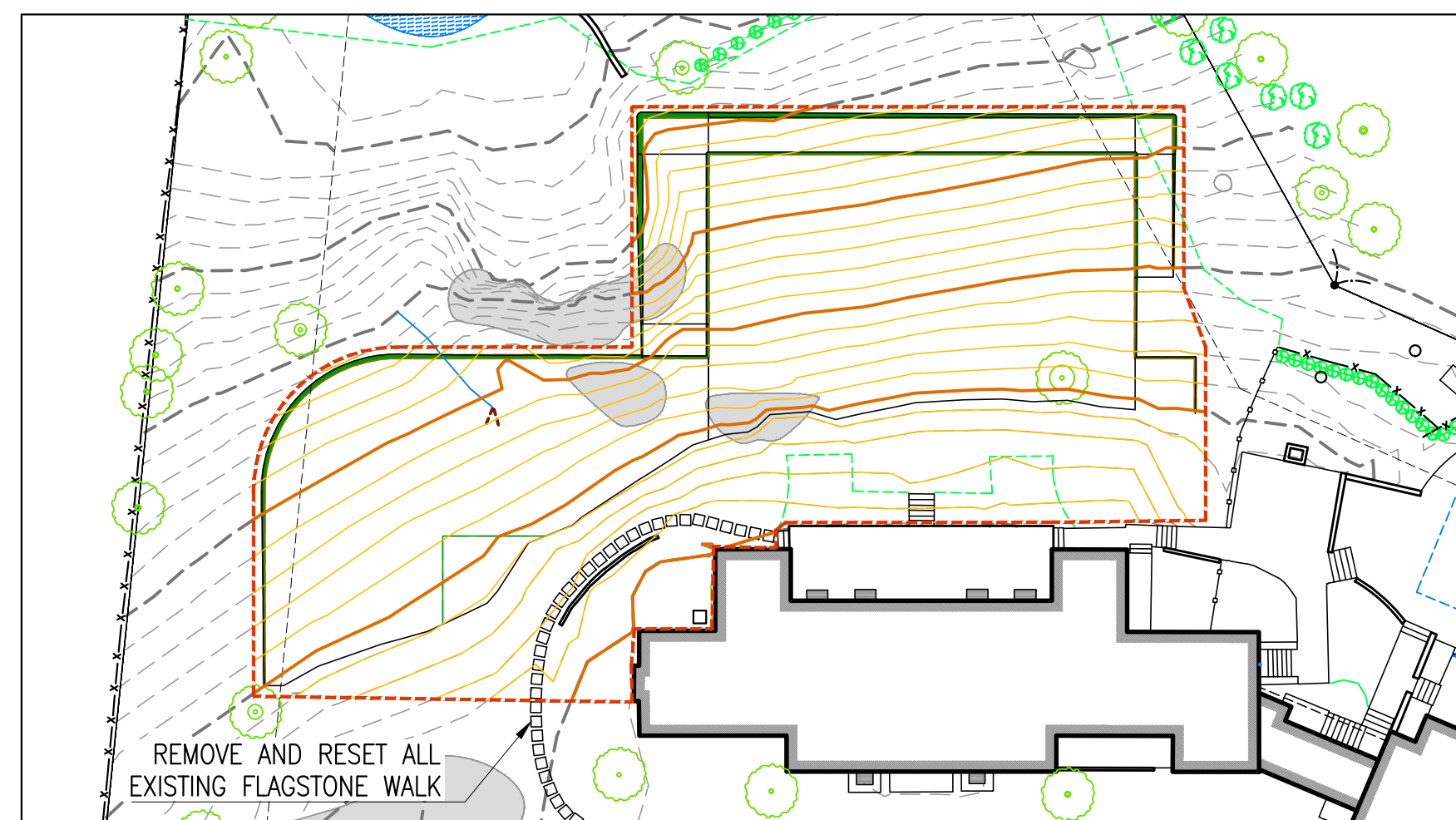
GRID SUMMARY WALL 2								
WALL	ELEVATION	STA BEG	STA END	EMBEDMENT LENGTH	UX TYPE	LENGTH	AREA	
2	198.67	TERRAIN	0+35.0	5'	4"	1100	25.00	133.33'
2	197.33	TERRAIN	0+35.0	5'	4"	1100	22.00	117.33'
2	195.33	TERRAIN	0+35.0	5'	4"	1100	8.50	45.33'
2	198.67	0+35.0	1+05.0	7'	3"	1100	70.00	507.50'
2	197.33	0+35.0	1+05.0	7'	3"	1100	70.00	507.50'
2	195.33	0+35.0	1+05.0	7'	3"	1100	70.00	507.50'
2	193.33	TERRAIN	1+05.0	7'	3"	1100	65.00	471.25'
2	192.00	TERRAIN	TERRAIN	7'	3"	1100	51.00	369.75'
2	190.67	TERRAIN	TERRAIN	7'	3"	1100	36.00	261.00'
2	198.67	1+05.0	TERRAIN	5'	4"	1100	217.70	1161.07'
2	197.33	1+05.0	TERRAIN	5'	4"	1100	217.70	1161.07'
2	195.33	1+05.0	TERRAIN	5'	4"	1100	187.70	1001.07'
2	193.33	1+05.0	TERRAIN	5'	4"	1100	7.50	40.00'
2	196.00	2+86.7	TERRAIN	5'	4"	1100	36.00	192.00'
UXTYPE SQ. FEET SQ. YARDS								
1100	6,476	720						

NOTE: LENGTH MAY VARY IN FIELD AS PER ROCK AND ENGINEER RECORDS

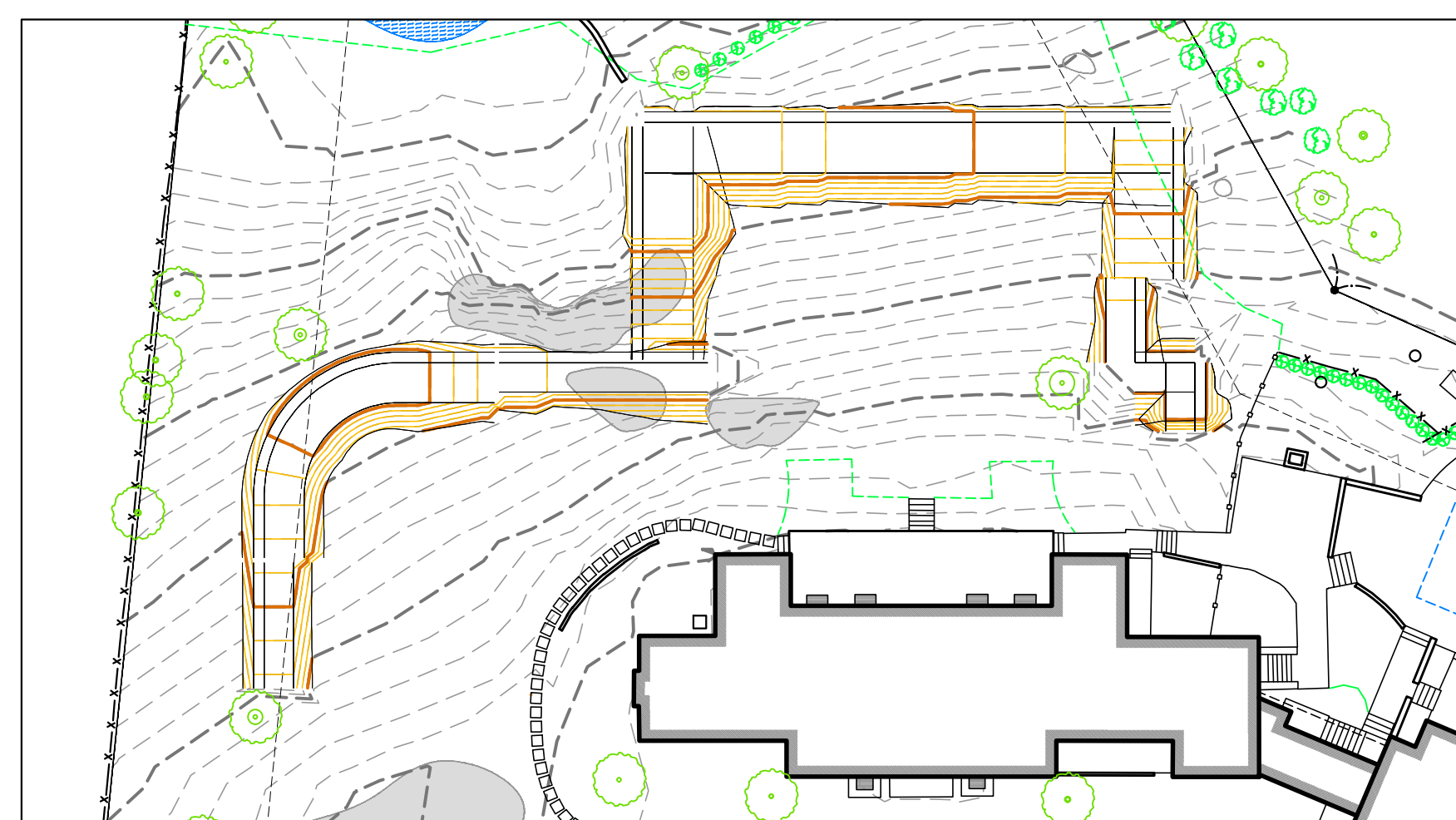
WALL 1			
CAP UNITS			
TOP WALL LENGTH	174	FT	
CAP LENGTH (18")	1.50	FT	
CAP UNITS	116	UNITS	
STANDARD BLOCK			
WALL AREA	1591	SQFT	
S.BLOCK AREA (8"X18")	1.00	SQFT	
BLK U. - CORNER U.	1560	UNITS	
CORNER UNITS			
CORNER	0+55.1	1+54.8	
TW	195.66	195.66	
BOW	182.66	187.33	
HEIGHT	13.00	8.33	
CAP HEIGHT (4")	0.33	0.33	
HEIGHT FOR CORNER U	12.67	8.00	
CORNER UNIT H (8")	0.67	0.67	
UNITS	19.00	12.00	
TOTAL CORNER UNITS	31	UNITS	
GRAVEL LEVELING PAD VOLUME			
GRAVEL W (24")	2.00	FT	
GRAVEL H (6")	0.50	FT	
NOMINAL AREA	1.00	SQFT	
LENGTH OF GRAVEL	188	FT	
VOLUME	188	CUBIC FT	
GRAVEL FOR DRAINAGE FILL (3/4") STONE			
WALL AREA	1591	SQFT	
THICKNESS	1.00	FT	
VOLUME	1591	CUBIC FT	

NOTE:
THE INFORMATION SHOWN HERE HAS BEEN PROVIDED
FOR THE CONVENIENCE OF THE CONTRACTOR AND SHALL
CONFIRM ALL QUANTITIES FOR HIS PROJECT COSTING AND
PRICING OF THE PROJECT

WALL 2			
CAP UNITS			
TOP WALL LENGTH	313	FT	
CAP LENGTH (18")	1.50	FT	
CAP UNITS	208	UNITS	
STANDARD BLOCK			
WALL AREA	1973	SQFT	
S.BLOCK AREA (8"X18")	1.00	SQFT	
BLK U. - CORNER U.	1948	UNITS	
CORNER UNITS			
CORNER	1+82.5	2+62.7	3+12.2
TW	200.33	200.33	200.33
BOW	194.00	194.00	195.33
HEIGHT	6.33	6.33	5.00
CAP HEIGHT (4")	0.33	0.33	0.33
HEIGHT FOR CORNER U	6.00	6.00	4.67
CORNER UNIT H (8")	0.67	0.67	0.67
CORNER UNITS	9.00	9.00	7.00
TOTAL CORNER UNITS	25	UNITS	
GRAVEL LEVELING PAD VOLUME (3/4") STONE			
GRAVEL W (24")	2.00	FT	
GRAVEL H (6")	0.50	FT	
NOMINAL AREA	1.00	SQFT	
LENGTH OF GRAVEL	326.04	FT	
VOLUME	326	CUBIC FT	
GRAVEL FOR DRAINAGE FILL (3/4") STONE			
WALL AREA	1973	SQFT	
THICKNESS	1.00	FT	
VOLUME	1973	CUBIC FT	



CLEAR AND GRUB AREA



ESTIMATE VOLUMES

CLEAR & GRUB AREA = 13,525 SQ-FT
VOLUME = 126 CUBIC YARDS
(ESTIMATE 3" OF DEEPTH *MAY VARY*)

THE VOLUME DOES NOT INCLUDE
EXPANSION

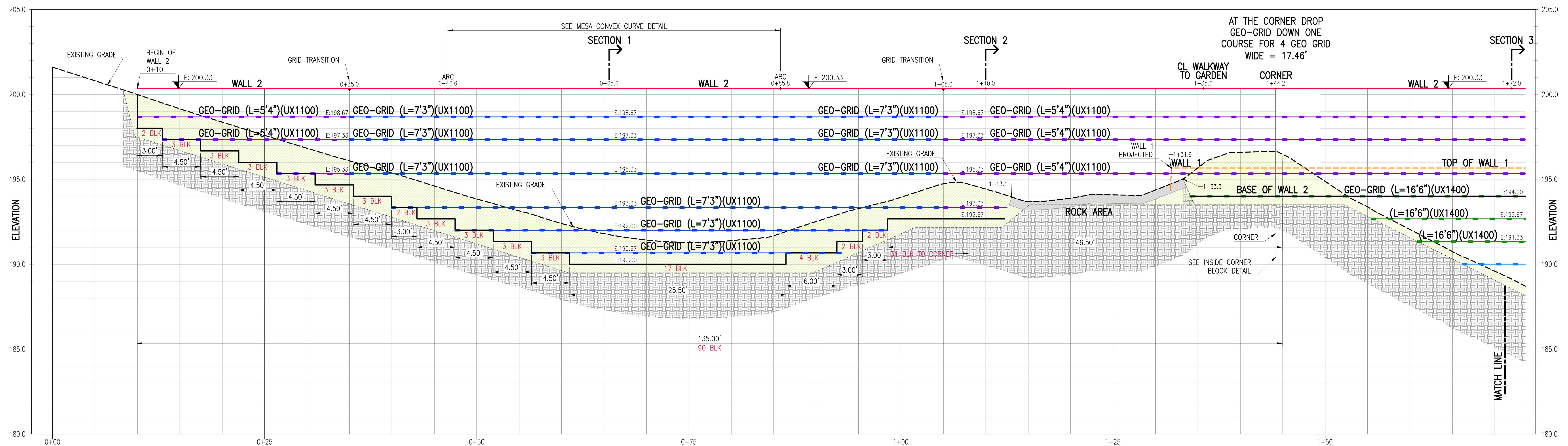
CUT VOL. FOR WALL EMBEDMENT:
VOLUME = 460 CUBIC YARDS

FILL VOLUME TO PLACE WALL SYSTEM
VOLUME = 2,120 CUBIC YARDS

ALL THE VOLUMES DO NOT INCLUDE
EXPANSION OR CONTRACTION

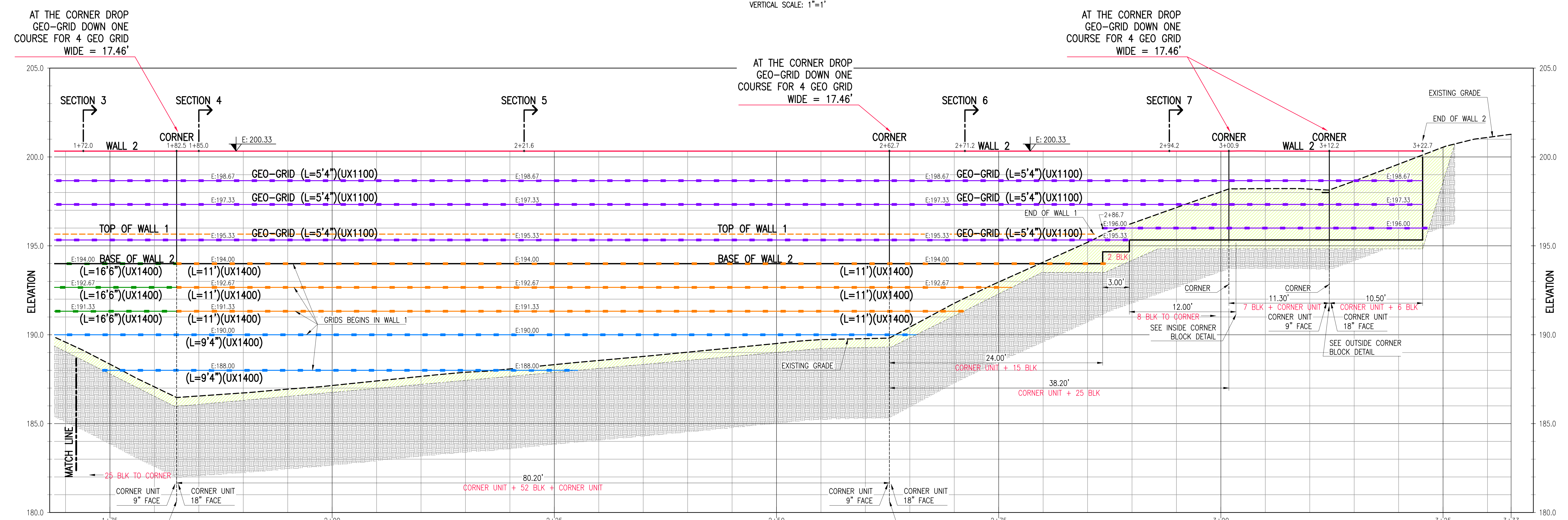
PROFILE OF WALL 1

	REVISIONS		SITE IMPROVEMENT LEVEL REAR YARD PREPARED FOR JULIE & MICHAEL CIVALE 25 OSCEOLA AVENUE, VILLAGE OF DOBBS FERRY, WESTCHESTER COUNTY, NEW YORK	04 09
	NO.	DATE		
N.Y.S.P.E. No. 55191		ORIGINAL: DECEMBER 22, 2022		
PAUL J. PETRETTI CIVIL ENGINEER & LAND SURVEYOR 30 GOULD AVENUE, DOBBS FERRY, NEW YORK 10522. Phone Number 914-674-3827		CIVIL ENGINEERING - LAND SURVEYING & MAPPING - SITE DESIGN & PLANNING ENVIRONMENTAL & GEOTECHNICAL - DRAINAGE & STORMWATER QUALITY EROSION & SEDIMENT CONTROL STORMWATER POLLUTION PREVENTION PLANS Cell 914-672-1518 E-Mail: PJP@CJSE@aol.com		



PROFILE OF WALL 2

HORIZONTAL SCALE: 1"=5'
VERTICAL SCALE: 1"=1'

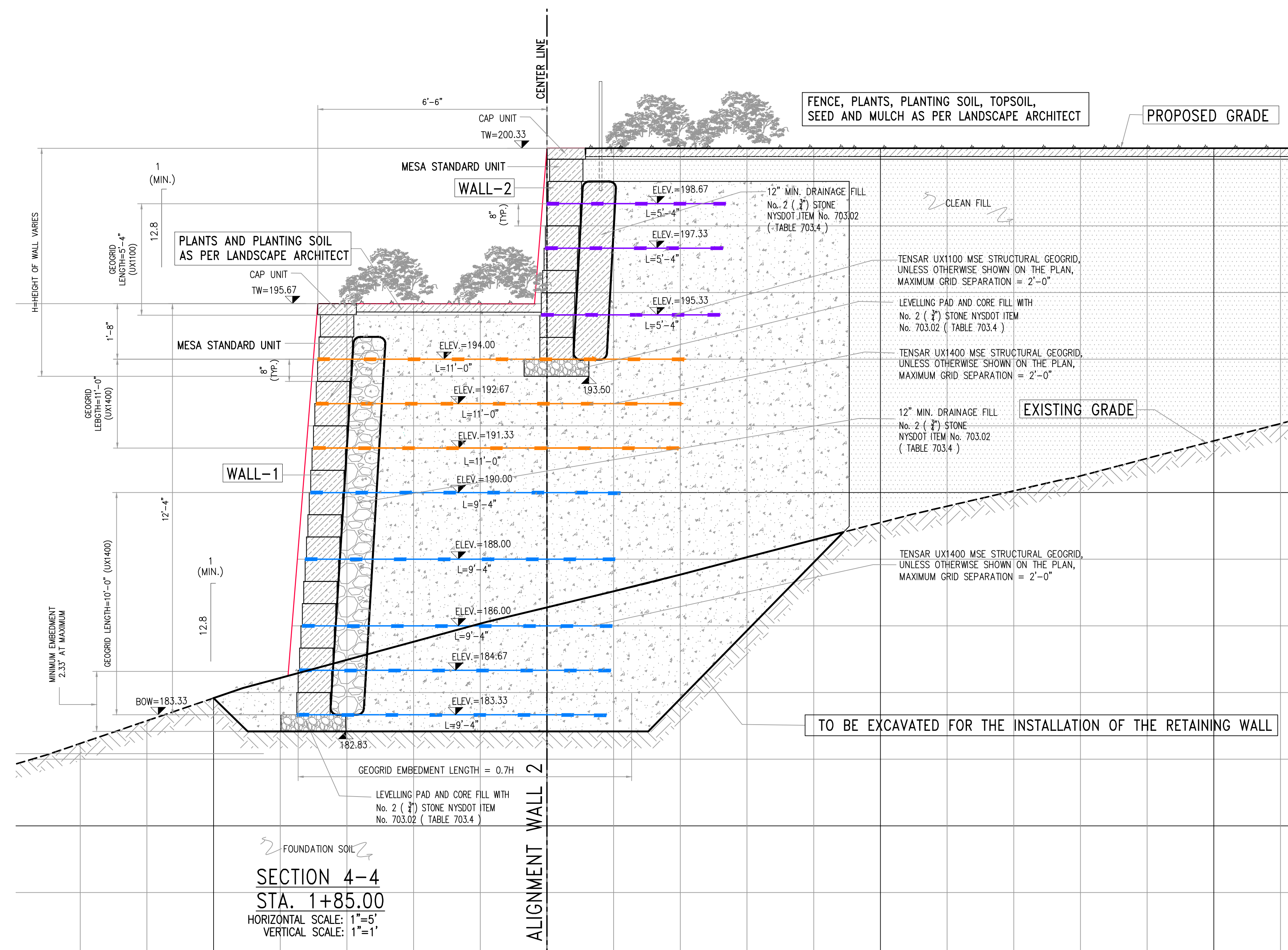
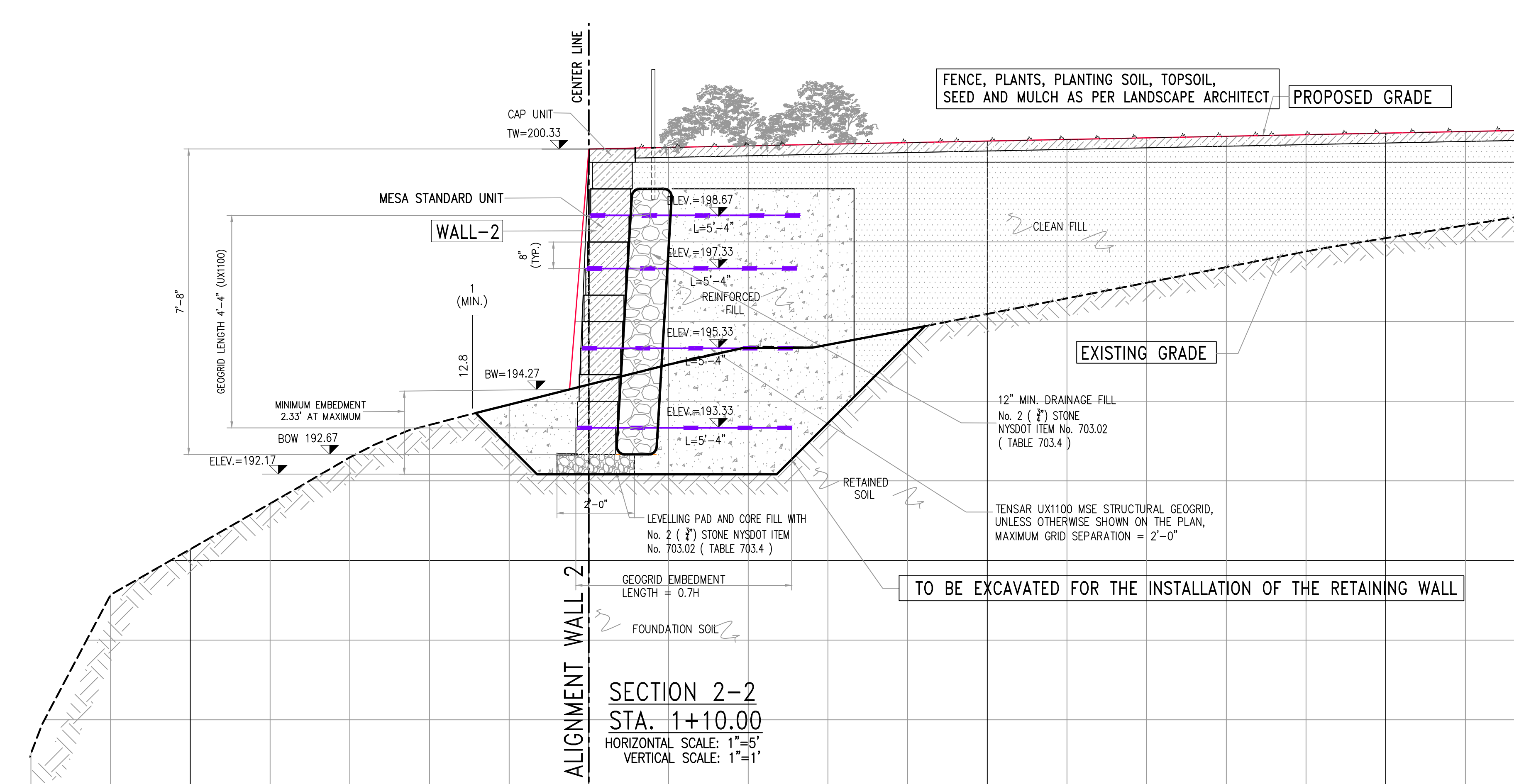


PROFILE OF WALL 2

HORIZONTAL SCALE: 1"=5'
VERTICAL SCALE: 1"=1'

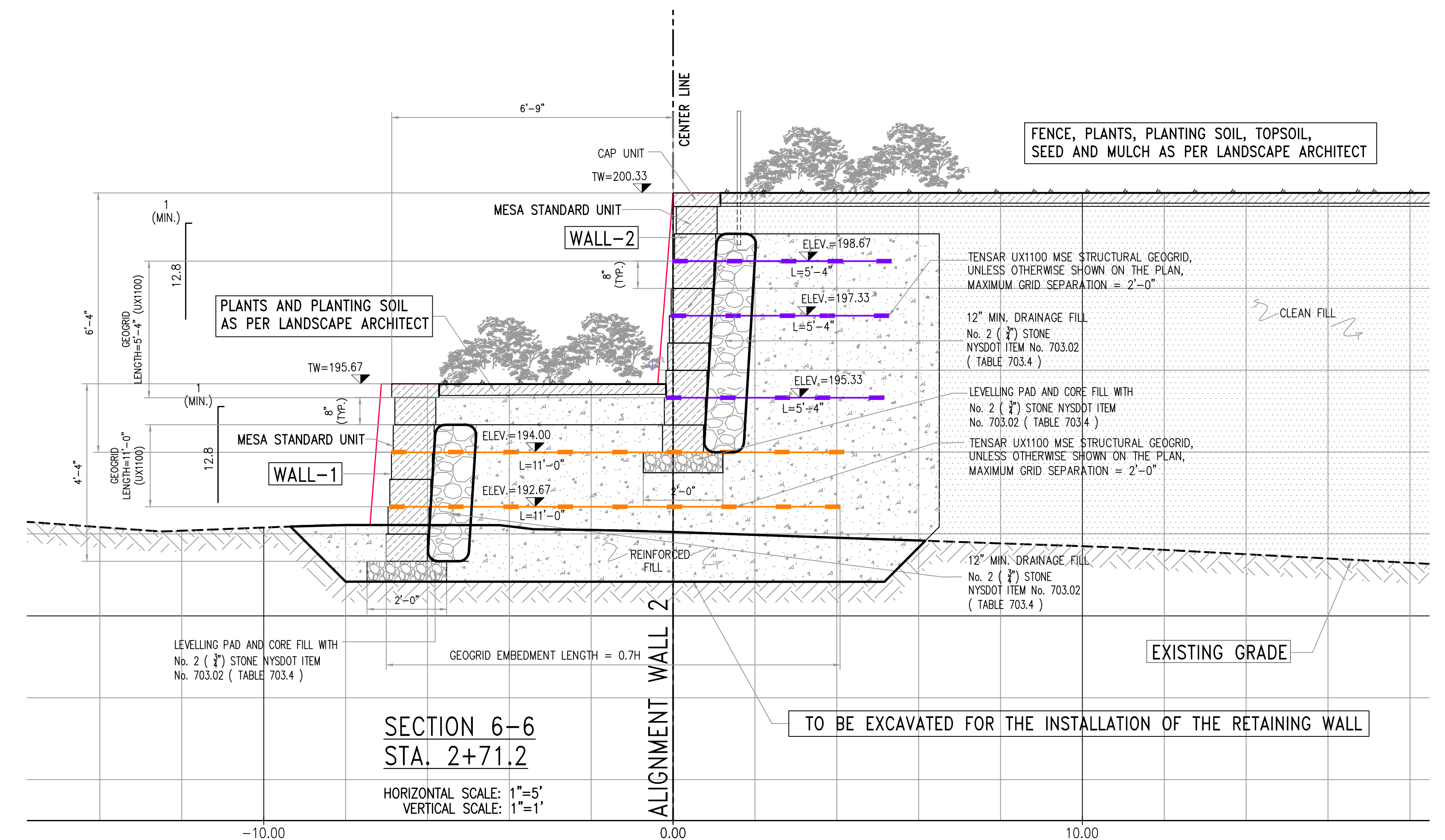
PROFILE WALL 2

	REVISIONS NO. DATE DESCRIPTION 		SITE IMPROVEMENT LEVEL REAR YARD PREPARED FOR JULIE & MICHAEL CIVALE 25 OSCEOLA AVENUE, VILLAGE OF DOBBS FERRY, WESTCHESTER COUNTY, NEW YORK PAUL J. PETRETTI CIVIL ENGINEER & LAND SURVEYOR 30 GOLD AVENUE, DOBBS FERRY, NEW YORK 10522. Phone Number 914-674-3827 Cell 914-672-1518 E-Mail PJP@C3S@aol.com	05 09
	ORIGINAL: DECEMBER 22, 2022			

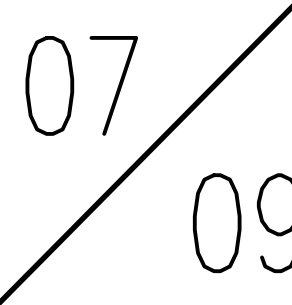


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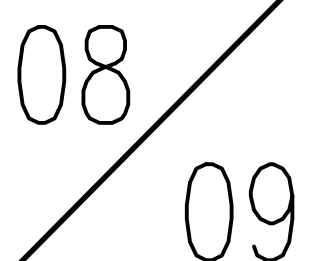
FOR REINFORCED FILL SEE EARTHWORK, EXCAVATION, REINFORCED FILL AND SITE FILL SHEET 07/09



THE ENGINEER OF RECORD HAS PROVIDED AN ESTIMATE OF THE FILL REQUIRED TO CONSTRUCT THE MSE WALL SYSTEM, 1,700 CUBIC YARDS. THE CONTRACTOR WILL PROVIDE A UNIT PRICE COST FOR FILL EXCEEDING THE ESTIMATE.



PAUL J. PETRETTI
 CIVIL ENGINEER & LAND SURVEYOR
 30 GOLD AVENUE, DOBBS FERRY, NEW YORK 10522
 CIVIL ENGINEERING – LAND SURVEYING & MAPPING – SITE DESIGN & PLANNING
 ENVIRONMENTAL & GEOTECHNICAL – DRAINAGE & STORMWATER QUALITY
 EROSION & SEDIMENT CONTROL STORMWATER POLLUTION PREVENTION PLANS
 Phone Number 914-674-9877 Cell 914-677-1518 E-Mail PAUPET@AOL.com



FABRIC AND GRAVEL FILL SPECIFICATION

WHEN THE SELECT FILL USED IN THE REINFORCEMENT ZONE FOR THE PROJECT IS CONSIDERED FREE-DRAINING (LESS THAN 15% PASSING THE No. 200 SIEVE), NO GEOTEXTILE OR GRAVEL FILL IS REQUIRED BEHIND MESA FACING UNITS, UNLESS PRESCRIBED BY THE PROJECT ENGINEER. WHEN THE SELECT FILL CONTAINS FINES BETWEEN 5% AND 15%, GEOTEXTILE FABRIC IS REQUIRED BEHIND THE MESA FACING UNITS, HOWEVER, NO GRAVEL FILL IS NEEDED, UNLESS PRESCRIBED BY THE PROJECT ENGINEER. SELECT FILL WITH FINES AND EXCESS OF 15% REQUIRES THE USE OF BOTH GEOTEXTILE FABRIC AND GRAVEL FILL BEHIND THE MESA FACING UNITS.

IF REQUIRED PER THE NOTE ABOVE, THE GEOTEXTILE SEPARATOR SHALL BE AN EIGHT (8) OZ. PER SQUARE YARD NONWOVEN NEED-POUNCHED AASHTO CLASS 1 FABRIC, UNLESS OTHERWISE APPROVED BY TENSAR. THE GEOTEXTILE SHALL BE DELIVERED TO THE PROJECT SITE IN ROLLS THAT HAVE BEEN FACTORY CUT TO THE SPECIFIED WIDTHS OR THE INSTALLATION.

INSTALLATION PROCEDURE

1. INSTALL EACH COURSE OF THE MESA FACING UNITS BETWEEN THE TOP OF THE LAST GEORGRID PLACED AND THE BOTTOM OF THE NEXT LAYER OF GEORGRID ABOVE AS SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. THE FACING UNITS SHALL BE ALIGNED AND LEVELLED IN ACCORDANCE WITH WALL INSTALLATION GUIDE.
2. PRIOR TO PLACING THE SELECT BACKFILL AND IF REQUIRED, GRAVEL FILL AND GEOTEXTILE FABRIC SHALL BE INSTALLED, GEOTEXTILE SHALL BE PLACED BEHIND THE UNITS SUCH THAT A MINIMUM OF SIX (6) INCHES OF MATERIAL IS TURNED INTO THE FILL AT THE TOP AND BOTTOM. THE GEOTEXTILE SHALL THEN BE ADJUSTED TO PREPARE A RELATIVELY SMOOTH SURFACE.
3. THE SELECT BACKFILL SHALL BE THEN BE PLACED AND COMPACTED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS.
4. AFTER THE SELECT BACKFILL HAS BEEN COMPACTED AND PROPERLY GRADED FOR THE INSTALLATION OF THE NEXT LAYER OF GEORGRID REINFORCEMENT, THE GEOTEXTILE ON THE TOP UNITS SHALL BE PULLED BACK ONTO THE BACKFILL.
5. INSTALL THE GEORGRID REINFORCEMENT BY PLACING TIE NESA CONNECTORS IN THE SLOTS AS SHOWN IN THE WALLINSTALLATION GUIDE. CONNECTORS WILL PUSH FABRIC INTO THE SLOP-T AS SHOWN IN TYPICAL SECTION THIS SHEET REPEAT THE PROCESS COMMENSING WITH ITEM NO. 1
6. INSTALL THE GEORGRID REINFORCEMENT AND REPEAT THE PROCESS COMMENSING THE STEP 1 ABOVE.
7. AFTER THE LAST ELEVATION LAYER OF PRIMARY GEORGRID REINFORCEMENT HAS BEEN PLACED, INSTALL THE REMAINING COURSES OF MESA FACING UNITS IN ACCORDANCE WITH THE DETAILS ON THE APPROVED SHOP DRAWINGS.
8. PRIOR TO INSTALLATION OF CAP UNIT, PLACE A LINE OF ADHESIVE IN THE DEPRESSED AREA BETWEEN THE CONNECTOR SLOT AND THE FACE OF THE UNIT PER DETAIL A1.
9. PLACE A LINE OF ADHESIVE ALONG THE TOP OF MESA FACING UNITS JUST BEHIND THE FACE PER DETAILS S2.
10. BUTT JOINTS OF A CAP UNITS AS SHOWN IN DETAILS S3

GEOTEXTILE WIDTHS REQUIRED FOR THE DETAIL "A" AASHTO CLASS 1: 36 INCH.

STAGES OF GEOTEXTILE LAYOUT

MESA WALL GEOTEXTILE SEPARATOR

STAGE 1
SET BACK BLOCKS
1 COURSE (MIN.)

STAGE 2
ROLL OUT GEOTEXTILE
PARALLEL TO WALL

STAGE 3
TOP UNGROUTED UNIT

STAGE 4
PLACE REINFORCED FILL

STAGE 5
ROLL OUT GEO-GRID PERPENDICULAR
TO WALL AND CONNECT GEO-GRID TO BLOCK

STAGE 6
ADD NEXT SET OF BLOCKS
3 COURSES (MAX.)

STAGE 7
ROLL OUT GEOTEXTILE
PARALLEL TO WALL
REPEAT STEPS 3 - 7

TYPICAL SECTION

FIRST GROUTED UNIT
(SEE GROUT DETAIL)

NON-WOVEN FILTER FABRIC
AASHTO M288 CLASS-2

6"

NON-WOVEN FILTER FABRIC
AASHTO M288 CLASS-2

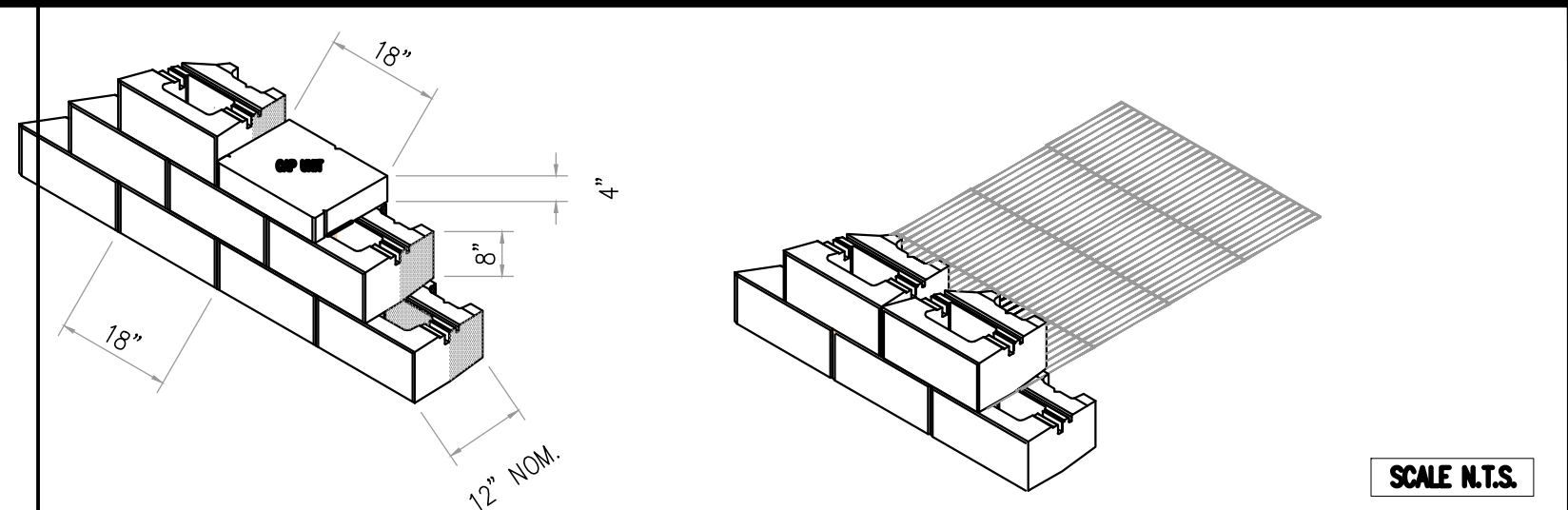
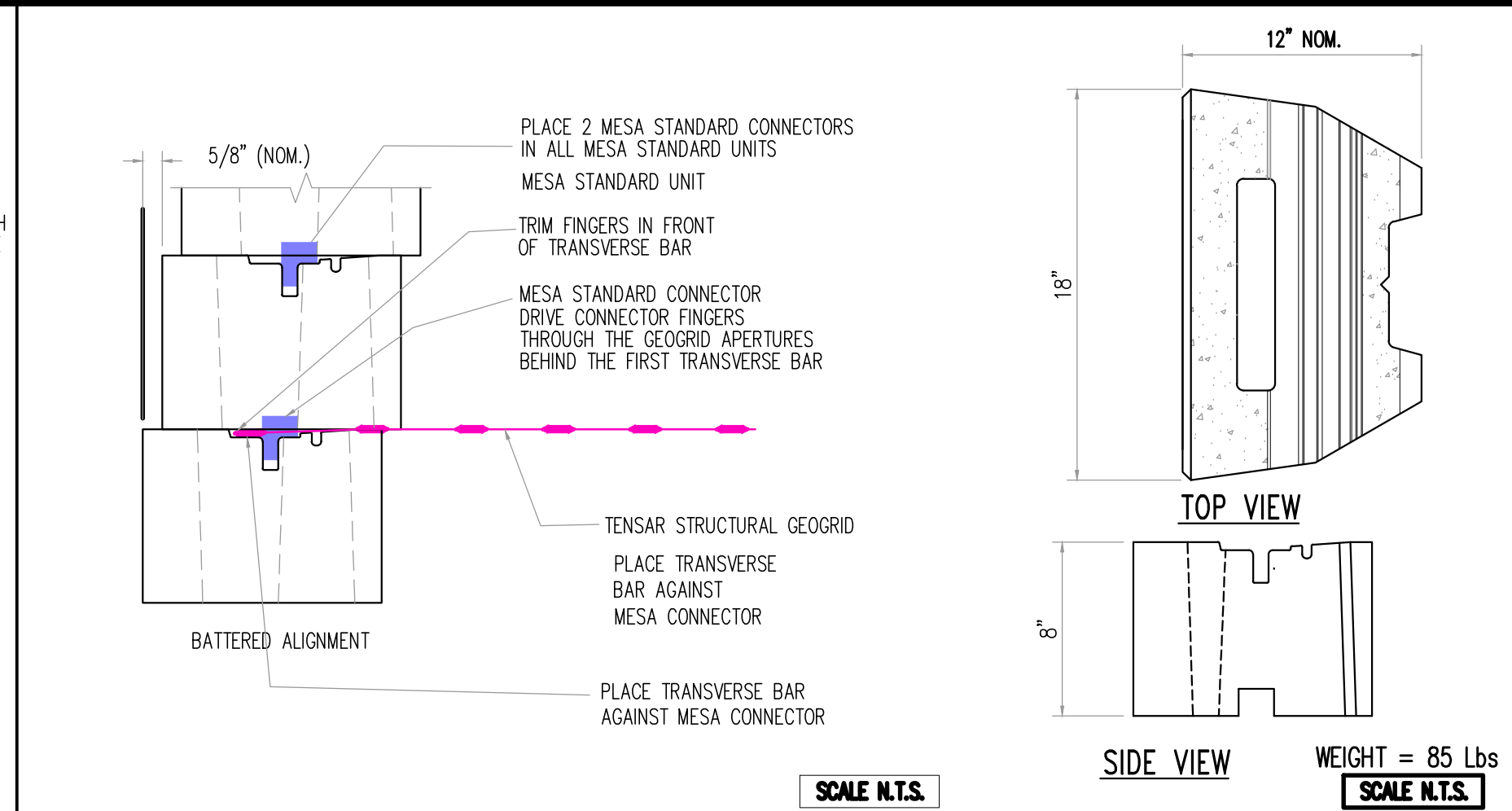
EXTEND NON-WOVEN FILTER FABRIC
AASHTO M288 CLASS-2
FABRIC TO THE FRONT OF BLOCK TO
PREVENT GROUT FROM RUNNING
THROUGH

TOP UNGROUTED UNIT

GEOTEXTILE WIDTHS REQUIRED FOR THE DETAIL "A" AASHTO CLASS 1: 36 INCH

GEOTEXTILE WIDTHS REQUIRED FOR THE DETAILS:
AASHTO M288 CLASS 1: 36 INCH

NOT TO SCALE



The image contains three technical drawings of a 'MESA STANDARD UNIT'.

- SECTION X-X:** A cross-section of the unit, showing a rectangular profile with a central cavity. The top surface is hatched with diagonal lines. Labels include 'MESA STANDARD UNIT' and '90° CORNER UNIT'.
- SECTION Y-Y:** A cross-section of the unit, showing a rectangular profile with a central cavity. The top surface is hatched with diagonal lines. Labels include '90° CORNER UNIT' and 'MESA STANDARD UNIT'.
- ELEVATION VIEW:** A perspective view of the unit, showing its rectangular shape and the hatched top surface. Labels include 'MESA STANDARD UNIT' and 'ELEVATION VIEW'.

NOTES

1. ALTERNATE CORNER UNIT DIRECTION FOR PROPER TUNING BOND.
2. GROUT CAVITY OF CORNER BLOCK.
3. INSURE THAT SPLIT FACE ARE EXPOSED

SCALE N.T.S.

The drawing shows a rectangular block with a U-shaped cutout. The isometric view shows the block from an angle. The side view shows the block from the side, with a height of 60 and a width of 4. The front view shows the block from the front, with a total width of 9 and a total height of 16. The cutout has a width of 4 and a height of 12. The dimensions are given in inches (").

ISOMETRIC VIEW

SIDE VIEW

FRONT VIEW

SCALE N.T.S.

TYPICAL GEO-GRID PERCENT COVERAGE

4" MAXIMUM

H/4

PROVIDE 3" MINIMUM SOIL COVER BETWEEN OVERLAPPING GEORGID LAYERS

BALTERNATE GEORGID THAT EXTEND BEYOND BEND POINT

H/4

SECTION 1-1

BEND POINT

FACE OF WALL

FILL OPEN CORES WITH GUNN MIX CONCRETE OR GROUT

REIN. BARS ARE SET WITH 100% GUNN CONSTRUCTION

ALL REIN. BARS ARE BENDING ANCHORED CONCRETE TO FILL WITH CONCRETE

1/2" IS SETBACK HEIGHT OF WALL

NOT TO SCALE

MESA WALL ALONG CORNER DETAIL

MESA STANDARD UNIT

± 6"

24"

6" (MIN.)

1/2" - 3/4" CRUSHED STONE OR GRAVEL (6" MINIMUM THICKNESS, 95% STANDARD PROCTOR DENSITY)

NOT TO SCALE

GRAVEL LEVELING PAD DETAIL

18"

5"

4"

12" NOM.

NOT TO SCALE

Diagram illustrating the 90° outside curve of a wall. The diagram shows the front face of the wall, the minimum radius (55' MINIMUM), and the block courses. The diagram is labeled "90° OUTSIDE CURVE".

FROM MINIMUM RADIUS SHOWN FOR TOP BLOCK COURSE.
RADIUS FOR BOTTOM AND SUBSEQUENT BLOCK COURSE
SHOULD BE CALCULATED AS A FUNCTION OF WALL HEIGHT AND BATTER.

NOT TO SCALE

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The diagrams illustrate the installation of MESA units in a corner. The left diagram shows the first course with units placed tightly against each other. The middle diagram shows the second course, alternating the direction of the corner unit and setting units on half-bond to the base units. The right diagram shows the third course, continuing the alternating pattern and securing the corner unit to the unit below.

THE ENGINEER OF RECORD, TO MAKE THIS CERTIFICATION, MUST APPROVE, INSPECT AND MONITOR THE MATERIALS TO BE PLACED AND WORKMANSHIP AS THE WALL IS CONSTRUCTED.

MATERIAL CERTIFICATION WILL BE REQUIRED FOR REINFORCED FILL MATERIAL AND GEO-GRIDS TO INCLUDE PRE-CONSTRUCTION QUALIFICATION OF THE MATERIALS TO INSURE THAT MATERIAL SPECIFICATIONS ARE MET. REINFORCED FILL FOR THE WALL SYSTEM WILL BE PROVIDED TO THE SITE FROM A PRE-SELECTED, PRE-TESTED SOLE SOURCE.

BACKFILL MATERIAL SHALL BE CLEAN FREE DRAINING SUITABLE ON-SITE SOIL OR IMPORTED SAND AND GRAVEL CONTAINING LESS THAN TWENTY PERCENT (20%) BY WEIGHT ASSING THE NO. 200 SIEVE. THE BACKFILL SHALL BE PLACED IN SIX (6) INCH (1 1/2") LAYERS AND COMPACTED TO AT LEAST NINETY-FIVE PERCENT (95%) OF ITS MAXIMUM MODIFIED DRY DENSITY (ASTM D1557). THE USE OF ON-SITE SOILS FOR BACKFILL SHALL BE APPROVED BY THE ENGINEER OF RECORD ON THE BASIS ON LABORATORY TESTS FOR GRADATION AND A COMPACTION TEST MADE BY A CERTIFIED TESTING FACILITY CERTIFYING THE SAME TO THE ENGINEER OF RECORD.

BACKFILL FOR THE RETAINING WALLS SHALL CONFORM TO THE SPECIFIED BACKFILL SHOWN ON THE PLAN AND ADEQUATE TESTING TO MEET THE BACKFILL SPECIFIED SHALL BE PROVIDED, INCLUDING BUT NOT LIMITED TO SIEVE ANALYSIS AND COMPACTION LAB TESTING TO DETERMINE BACKFILL GRADATION AND MAXIMUM DENSITY AND IN-PLACE COMPACTION TESTING TO INSURE MAXIMUM IN-PLACE DENSITY.

THE ELEVATION OF THE LEVELING PAD TO BE APPROVED BY THE ENGINEER OF RECORD.

GEO-GRID ELEVATIONS SHOWN HEREON ARE FOR RIDING PURPOSES AND MAY REVISED IN THE FIELD BY THE ENGINEER OF RECORD TO MEET FIELD CONDITIONS.

INSPECTION OF PLACEMENT OF THE WALL COMPONENTS, THE LEVELING PAD, DRAINAGE COMPONENTS AND ALL GEO-GRID PLACEMENT LIFTS.

THE CONTRACTOR IS REQUIRED TO CONSTANTLY AND CONTINUOUSLY ADVISE THE ENGINEER OF RECORD OF HIS OPERATIONS TO INSURE THAT ALL INSPECTIONS ARE MADE FOR THE PLACEMENT OF THE ENTIRE WALL SYSTEM. FAILURE TO NOTIFY THE ENGINEER OF RECORD OF ANY ACTION RELATED TO THE CONSTRUCTION OF THE WALL SYSTEM WILL ELIMINATE THE ABILITY OF THE ENGINEER OF RECORD TO PROVIDE ADVICE WITH JURISDICTION OVER THE BUILDING PERMIT FOR THIS ACTION AND PROVIDE THE OWNER A CERTIFICATION OF CONSTRUCTION COMPLIANCE.

24-HOUR NOTICE TO THE ENGINEER OF RECORD FOR ALL ACTIONS RELATED TO THE CONSTRUCTION OF THE WALL SYSTEM IS REQUIRED.

SUBSTITUTION OF ANOTHER SEGMENTAL RETAINING WALL / MECHANICALLY STABILIZED EARTH (MSE) RETAINING WALL SYSTEM REQUIRES A SIGNED SEAL/ DESIGN BY AN ENGINEER LICENSED TO PRACTICE IN THE STATE OF NEW YORK. THE CONTRACTOR IS RESPONSIBLE FOR ANY DESIGN REVIEW FEES, SUBMISSION OF A REVISED DESIGN TO THE VILLAGE OF DOBBS FERRY, RE-SUBMISSION TO THE VILLAGE OF DOBBS FERRY PLANNING BOARD AND DESIGN REVIEW COMMITTEE.

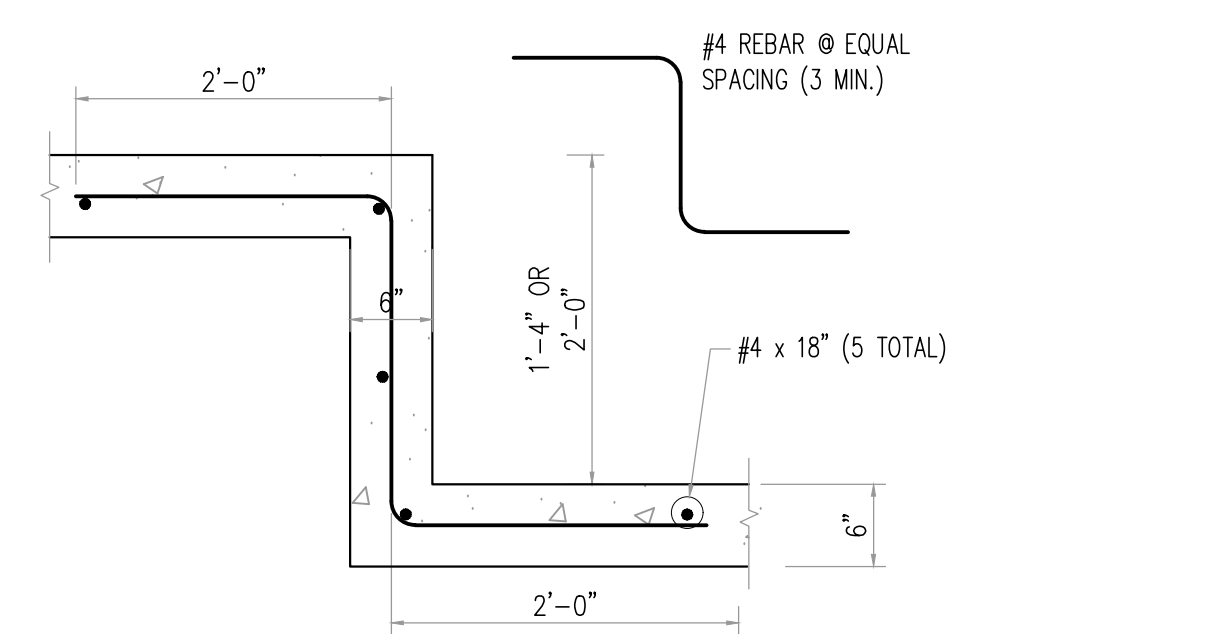
ELEVATIONS, GRADES AND DIMENSIONS SHOWN HEREON FOR THE PROPOSED WALL MAY VARY TO MEET FIELD CONDITIONS ENCOUNTERED IN THE FIELD. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE ENGINEER OF RECORD. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY OF ANY CHANGES AND/OR FIELD CONDITIONS THAT WILL IMPACT THE INSTALLATION OF THE RETAINING WALL.

A RAILING OR A FENCE ALONG THE TOP OF THE RETAINING WALL SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEW YORK STATE BUILDING CODE.

TEMPORARY FENCING WILL BE REQUIRED TO PREVENT ACCESS TO THE UNDER CONSTRUCTION WORK AREA TO PRECLUDE ACCESS AND IF NECESSARY AT THE TOP OF THE WALL UNDER CONSTRUCTION.

WORK AREA A RAILING OR A FENCE ALONG THE TOP OF THE RETAINING WALL SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEW YORK STATE BUILDING CODE.

AT COMPLETION THE APPLICANT'S (OWNER) ENGINEER OR THE ENGINEER OF RECORD SHALL SUBMIT A COMPLIANCE AND AN AS-BUILT PLAN, PROFILE AND SECTION OF THE RETAINING WALL WHICH WILL CERTIFY THAT THE WALL WAS INSTALLED IN SUBSTANTIAL ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS OR IN THE ALTERNATE, IF FIELD CONDITIONS DICTATED SUBSTANTIAL CHANGES TO THE ORIGINAL DESIGN, THEN A REVISED PLAN WILL BE SUBMITTED CERTIFYING THAT THE RETAINING WALLS ARE INSTALLED IN SUBSTANTIAL ACCORDANCE WITH THE REVISED PLAN.



Technical drawing of a concrete block step showing reinforcement details. The drawing includes a side elevation and a top-down view.

Side Elevation:

- Shows a concrete block with a sloped top surface and a vertical drop.
- Reinforcement bars (rebar) are shown within the concrete.
- Dimensions: 8" (width of the block), 2'-0" (length of the reinforcement cage), 16" (width of the reinforcement cage).
- Labels: #4 REBAR @ EQUAL SPACING (3 MIN.), 16", 8", 2'-0", 16", #4 x 18" (4 TOTAL).

Top-Down View:

- Shows the layout of the rebar, including a 4x18 inch reinforcement cage.
- Dimensions: 8" (width of the block), 2'-0" (length of the reinforcement cage), 16" (width of the reinforcement cage).
- Labels: 8", 2'-0", 16", #4 x 18" (4 TOTAL).

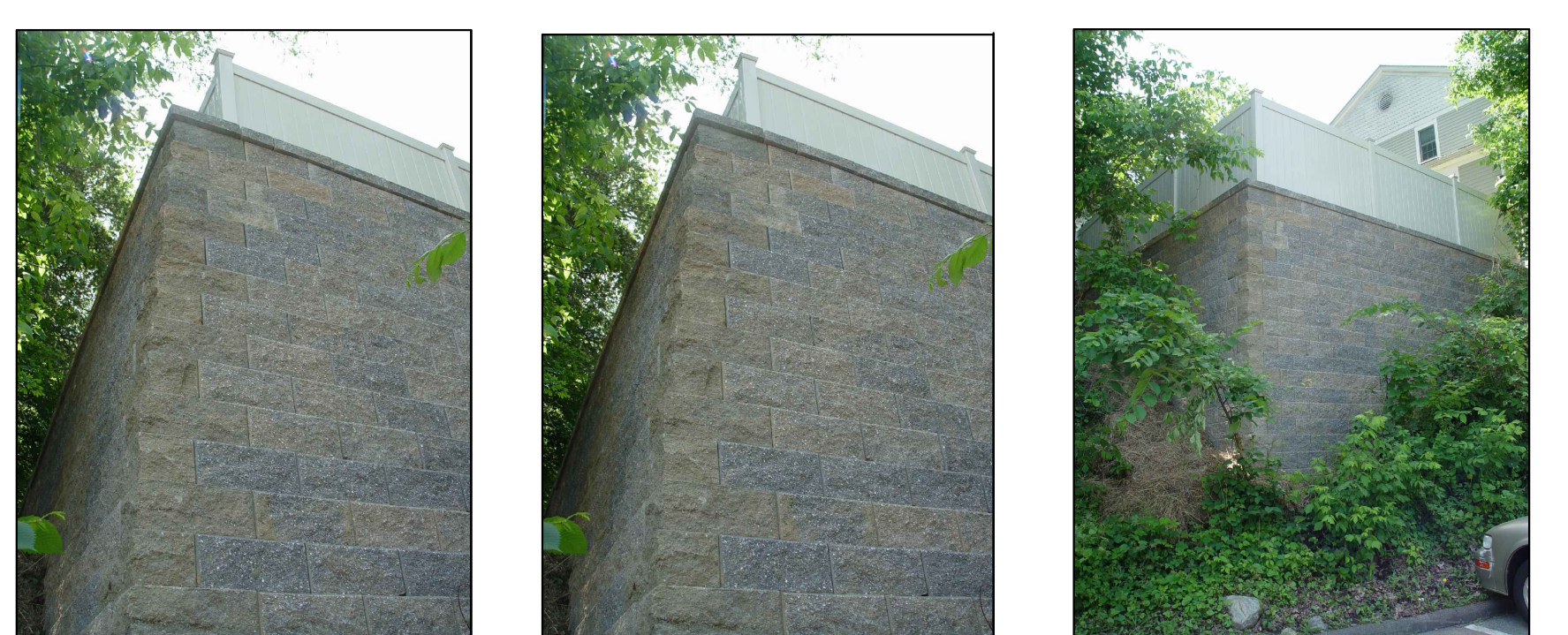
Labels:

- #4 REBAR @ EQUAL SPACING (3 MIN.)
- 16"
- 8"
- 2'-0"
- 16"
- #4 x 18" (4 TOTAL)

1 BLOCK STEP

NOT TO SCALE

CONCRETE LEVELING PAD IF REQUIRED, A.O.B.E.



NESA STANDARD UNIT CORNER WALL DETAILS
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	REVISIONS		SITE IMPROVEMENT LEVEL REAR YARD PREPARED FOR JULIE & MICHAEL CIVALE 25 OSCEOLA AVENUE, VILLAGE OF DOBBS FERRY, WESTCHESTER COUNTY, NEW YORK	09
	NO.	DATE		
NYS P.E. Lic. No. 055191			PAUL J. PETRETTI CIVIL ENGINEER & LAND SURVEYOR 30 GOULD AVENUE, DOBBS FERRY, NEW YORK 10522 CIVIL ENGINEERING - LAND SURVEYING & MAPPING - SITE DESIGN & PLANNING ENVIRONMENTAL & GEOTECHNICAL - DRAINAGE & STORMWATER QUALITY EROSION & SEDIMENT CONTROL STORMWATER POLLUTION PREVENTION PLANS Phone Number 914-674-3827 Cell 914-672-1518 E-Mail: PJP@CSBA.org	09
N.Y.S.P.E. No. 55191				

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