

GENERAL NOTES

GENERAL

- STANDARDS OF CONSTRUCTION: ALL CONSTRUCTION SHALL CONFORM TO THE TOWN OF CARMEL STANDARDS, RULES AND REGULATIONS REGARDLESS OF WHAT MAY BE INDICATED ON THE PLANS.
- IMPORTED FILL: IF THE SITE REQUIRES IMPORTED FILL IN THE PROPOSED MUNICIPAL RIGHT OF WAY OR MUNICIPAL OWNED PROPERTY, ALL FILL MUST BE TESTED FOR COMPOSITION AND CHEMICALS IN ACCORDANCE WITH TOWN ENGINEER DIRECTIONS AND AT THE FULL EXPENSE OF THE OWNER. THESE TEST RESULTS MUST BE RECEIVED PRIOR TO DEPOSITING MATERIAL ON MUNICIPAL PROPERTY. A LICENSED PROFESSIONAL ENGINEER MUST BE ON SITE TO APPROVE THE FILL, KEEP RECORDS, AND REVIEW THE CHAIN OF CUSTODY DOCUMENTATION OF EACH TRUCK BROUGHT TO THE SITE. THE REQUIRED NUMBER OF SAMPLES MUST BE TAKEN AND TESTED BY A NEW YORK STATE CERTIFIED LABORATORY. IN ADDITION, POLLUTION INSURANCE MUST BE PROVIDED PRIOR TO CONSTRUCTION, IN THE AMOUNT TO BE DETERMINED BY THE TOWN ENGINEER.
- EROSION, DUST & SEDIMENT CONTROL: THE DEVELOPER SHALL BE RESPONSIBLE FOR PROVIDING PROPER EROSION, SEDIMENT AND DUST CONTROL. ALL EROSION AND SEDIMENT CONTROL MUST BE SIZED AND DESIGNED IN ACCORDANCE WITH THE STANDARDS AND GUIDELINES PRESENTED IN THE LATEST NYSDEC REGULATIONS. THE DEVELOPER SHALL SUBMIT TO THE COMMISSIONER FOR APPROVAL, A PLAN WITH DETAILS DELINEATING THE METHODS HE INTENDS TO USE FOR EROSION, SEDIMENTATION AND DUST CONTROL DURING THE CONSTRUCTION OF THIS PROJECT. SILT PROTECTION AND ANY WATER RETENTION BASINS WILL BE THE FIRST ITEMS OF CONSTRUCTION. THE EROSION, SEDIMENTATION AND DUST CONTROLS MUST BE MAINTAINED THROUGHOUT CONSTRUCTION OR A STOP WORK ORDER WILL BE ISSUED BY TOWN ENGINEER.
- ELEVATION DATUM: ELEVATIONS SHOWN ON THE PLANS ARE FROM THE FIELD SURVEY IN NAVD 83.
- INDUSTRIAL CODE RULE 753: THE DEVELOPER SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS PRIOR TO THE START OF HIS OPERATIONS AND SHALL COMPLY WITH ALL THE LATEST INDUSTRIAL CODE RULE 753 REGULATIONS.
- VERIFICATION AND PROTECTION OF EXISTING UTILITIES: THE DEVELOPER SHALL VERIFY THE SIZE, LOCATION, DEPTH AND INVERTS OF ALL EXISTING UTILITIES PRIOR TO COMMENCING HIS OPERATIONS. THE DEVELOPER SHALL PRESERVE AND PROTECT EXISTING PRIVATE AND MUNICIPAL UNDERGROUND AND OVERHEAD UTILITIES AND STRUCTURES, WHETHER OR NOT THEY ARE SHOWN ON THE APPROVED PLANS OR LOCATED UNDER INDUSTRIAL CODE RULE 753. THE COST OF REPAIRING DAMAGED UTILITIES OR STRUCTURES SHALL BE BORNE BY THE DEVELOPER. IF TEMPORARY UTILITIES ARE REQUIRED IT IS THE RESPONSIBILITY OF THE DEVELOPER TO PROVIDE AND MAINTAIN SAID UTILITIES.
- PIPE LAYOUT: THE DEVELOPER SHALL PERFORM ALL PROPOSED PIPE LAYOUT REQUIRED BY MEANS OF A LASER FOR EXACT VERTICAL AND HORIZONTAL ALIGNMENT. THE USE OF BATTER BOARDS, AS SPECIFIED IN THE MUNICIPAL STANDARD CONSTRUCTION SPECIFICATIONS ARTICLE 33.132 - "LAYOUT", SHALL NOT BE ALLOWED. THE DEVELOPER'S EQUIPMENT MUST HAVE BEEN CALIBRATED WITHIN THE PREVIOUS SIX (6) MONTHS PRIOR TO CONSTRUCTION. WRITTEN PROOF OF CALIBRATION MUST BE PROVIDED IF REQUIRED BY THE TOWN ENGINEER.
- INSPECTION & BACKFILL: NO BACKFILL SHALL BE PLACED OVER NEW CONSTRUCTION PRIOR TO INSPECTION AND APPROVAL BY TOWN ENGINEER. THE DEVELOPER MUST HAVE A SUFFICIENT STOCKPILE OF CLEAN FILL IF EXCAVATED MATERIAL IS UNSUITABLE FOR BACKFILL (IE. ROCK, ORGANIC MATERIAL). THE USE OF CONTROLLED BACKFILL MATERIAL MAY BE REQUIRED IN TRENCHES IF DETERMINED BY THE TOWN ENGINEER.

EROSION CONTROL:

- INSTALL ALL EROSION CONTROL DEVICES AS INDICATED ON DRAWINGS AND IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS & SPECIFICATIONS FOR EROSION & SEDIMENT CONTROL, LATEST REVISION.
- CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES DURING COURSE OF CONSTRUCTION.
- EROSION CONTROL DEVICES SHALL NOT BE REMOVED UNTIL FULL VEGETATION GROWTH HAS OCCURRED AND AS APPROVED BY THE TOWN INSPECTOR.
- SEEDING AND MULCHING SHALL BE AS FOLLOWS:
TEMPORARY SEEDING & MULCHING
 - LIME : 90LBS./1000 SQ.FT.; GROUND LIMESTONE, FERTILIZER : 4LBS./1,000 SQ.FT., 10-20-10 OR EQUIVALENT WORKED INTO SOIL, A MINIMUM OF 4 INCHES.
 - SEED : ANNUAL RYEGRASS 40 LBS./ACRE OR OTHER APPROVED SEED, PLANT BETWEEN MARCH 1 AND MAY 15 OR BETWEEN AUGUST 15 AND OCTOBER 1.
 - MULCH : SALT HAY OR SMALL GRAIN STRAW AT A RATE OF 70 TO 90 LBS./1,000 SQ.FT. TO BE APPLIED ACCORDING TO STANDARD PRACTICES. MULCH SHALL BE SECURED BY APPROVED METHODS.
- THE APPLICANT SHALL BE REQUIRED TO CLEAN ROADWAYS FROM ALL SILTATION AND CONSTRUCTION DEBRIS AS REQUIRED, AND UPON COMPLETION OF THE WORK, WITHIN THE VICINITY OF THE PROJECT SITE.
- ALL PLANS SHOULD FULLY INCORPORATE THE APPROPRIATE RECOMMENDATIONS FROM NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION'S STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, DATED AUGUST 2001, OR THE MOST CURRENT VERSION OR ITS SUCCESSOR. THE PLAN AND ITS IMPLEMENTATION SHALL BE SUBJECT TO THE APPROVAL OF THE TOWN ENGINEER.

SITE WORK:

- THE SITE SHALL BE GRADED AS INDICATED ON THE DRAWINGS. ALL PROPOSED CONTOURS SHALL BE GRADED TO BLEND EVENLY WITH THE EXISTING CONTOURS.
- ALL DISTURBED AREAS WHICH WILL BE LEFT EXPOSED FOR MORE THAN THIRTY (30) DAYS AND NOT SUBJECTED TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE TEMPORARY SEEDING. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREA WILL BE MULCHED WITH SALT HAY, OR APPROVED EQUAL, AND BOUND AS PER THE NEW YORK STATE STANDARDS & SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
- FILL MATERIAL SHALL BE CLEAN FILL AND SHALL BE INSTALLED IN 12 INCH LIFTS AND COMPACTED TO 95% OPTIMUM DENSITY.
- ALL STORM DRAIN PIPES SHALL BE HD.P.E. PIPES UNLESS OTHERWISE NOTED.
- ALL GRAVEL SHALL BE 3/4" CRUSHED STONE OR RECYCLED MATERIAL IF ALLOWED BY THE MUNICIPALITY.
- MAINTAIN POSITIVE PITCHES ON ALL DRAIN PIPES TO EXISTING & PROPOSED DRAINAGE STRUCTURES UNLESS OTHERWISE NOTED HEREON.
- PIPE LAYOUT MUST MEET TOWN CODE.

PROPOSED 1 FAMILY RESIDENCE FOR ARMONK ESTATES LLC

4 ARMONK HEIGHTS ROAD

TOWN OF NORTH CASTLE, NEW YORK

SEC. : 101.34 BLOCK : 1 TAX LOT : 34

MASTROGIACOMO
ENGINEERING, P.C.
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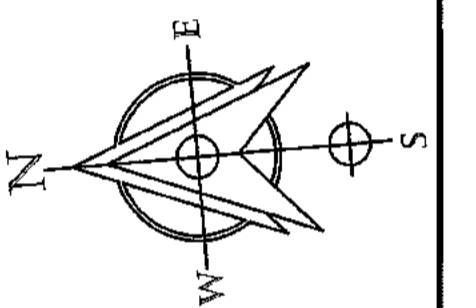
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Revisions

Revision	Description
1	3/24/24 REVISIONS MPER COMMENTS 1/1/24
2	
3	
4	
5	
6	
7	
8	
9	
10	

Drawing North



Client Name and Address

ARMONK ESTATES LLC
21 BRASSIE ROAD
EASTCHESTER, NY
10709

Project Information

PROPOSED 1 FAMILY RESIDENCE
Sited at
4 ARMONK HEIGHTS RD
TOWN OF NORTH CASTLE
WESTCHESTER CO.
NEW YORK

TAX ASSESSMENT INFO:

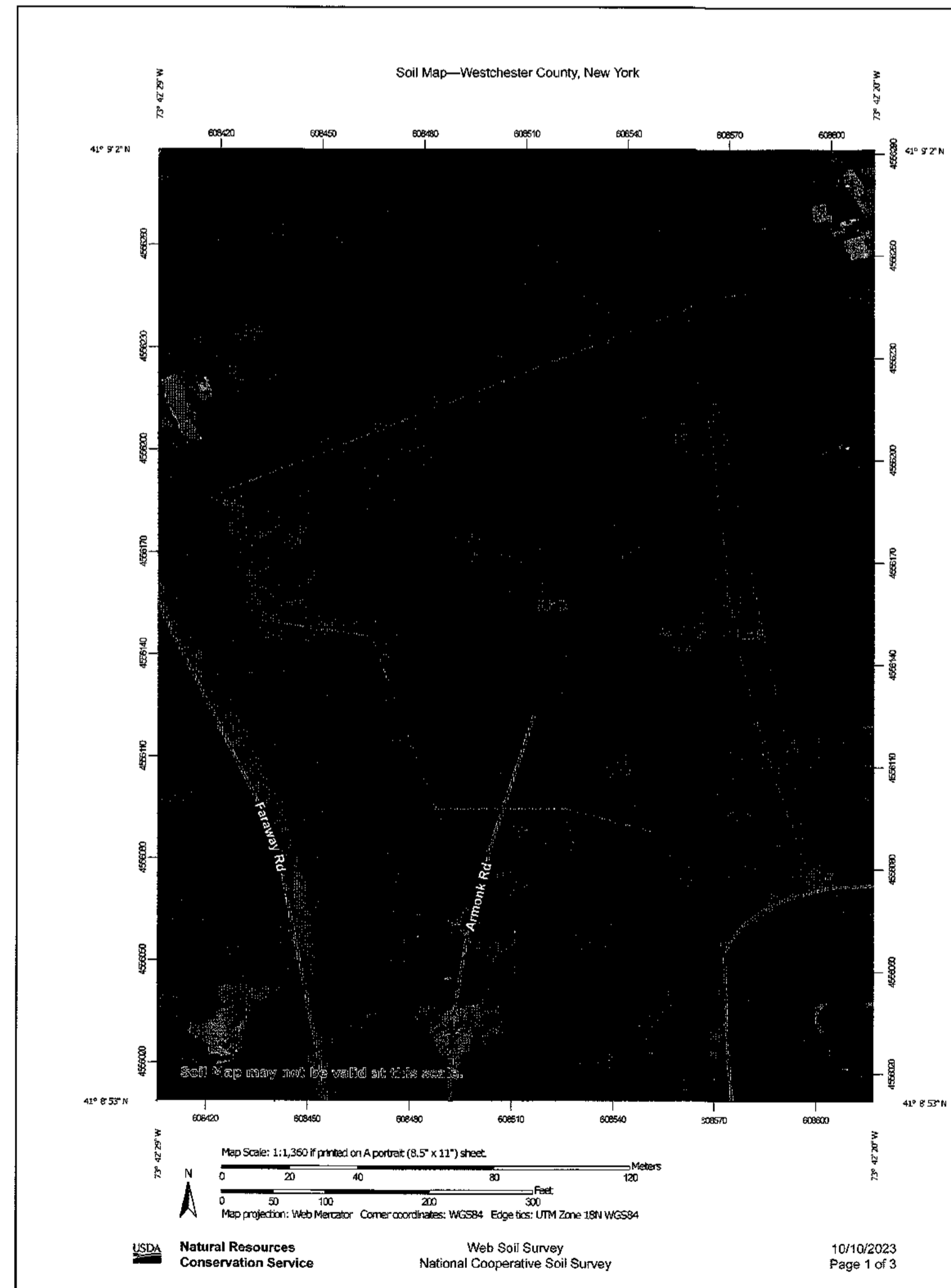
SEC. : 101.01
BLOCK : 1
TAX LOT : 34

Job No. : MISC
Scale : AS NOTED
Date : 1 OCT. 2023
Drawn By : M.M.
Checked By : M.M.
Sheet

T100

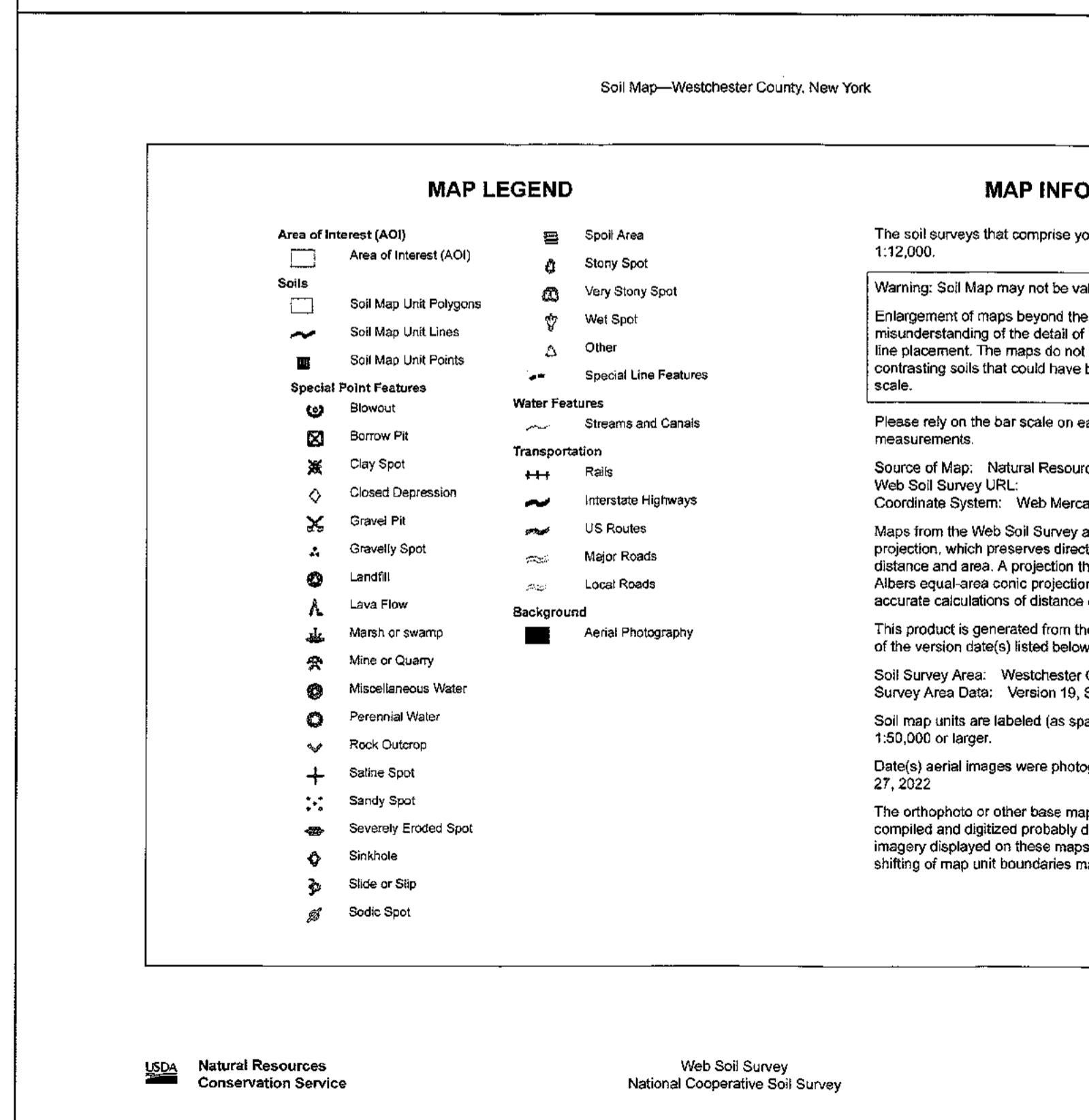
Seal & Signature

MICHAEL MASTROGIACOMO, P.E., L.S.
NEW YORK STATE P.E. NO. 02883
NEW YORK STATE L.S. NO. 27081
CONNECTICUT STATE P.E. & L.S. LIC. NO. 3078



Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Ff	Fluvisquents-Udfluvents complex, frequently flooded	0.0	0.6%
LcB	Leicester loam, 3 to 8 percent slopes, stony	0.2	4.8%
RhD	Riverhead loam, 15 to 25 percent slopes	4.1	94.6%
Totals for Area of Interest		4.3	100.0%



LIST OF DRAWINGS

- T100 - TITLE SHEET, VICINITY MAP & GENERAL NOTES
- T101 - TAX MAP
- TOPOGRAPHIC SURVEY
- C100 - EROSION CONTROL & TREE REMOVAL PLAN
- C101 - PARTIAL SITE PLAN & ZONING ANALYSIS TABLE
- C102 - PARTIAL GRADING & UTILITY PLAN
- C200 - STORMWATER DESIGN COMPUTATIONS & DETAILS
- C201 - CONSTRUCTION DETAILS
- C202 - CONSTRUCTION DETAILS
- C203 - CONSTRUCTION DETAILS
- A100 - ARCHITECTURAL ELEVATIONS
- A101 - ARCHITECTURAL ELEVATIONS
- A200 - FIRST FLOOR PLAN
- A201 - SECOND FLOOR PLAN

RECEIVED

APR 24 2024
TOWN OF NORTH CASTLE
BUILDING DEPARTMENT

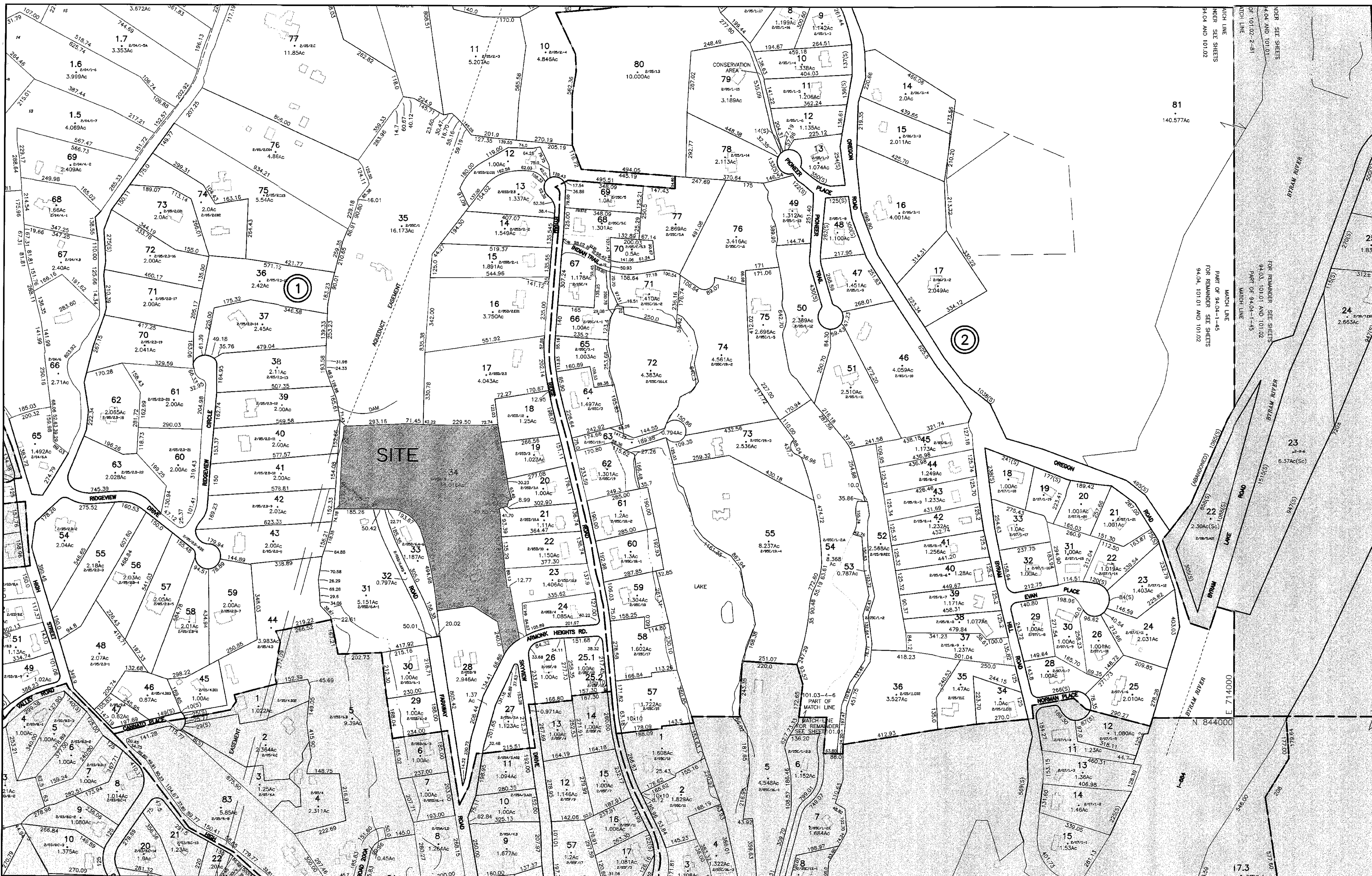
NORTH CASTLE PLANNING BOARD APPROVAL:

APPROVED BY THE TOWN OF NORTH CASTLE PLANNING BOARD AS PER RESOLUTION No. _____ DATED : _____

PLANNING BOARD CHAIRMAN _____ DATE _____

WEB SOIL SURVEY

Sheet Title: TITLE SHEET & GENERAL NOTES



MAP REVISIONS					
NEW ASSESSED			FORMERLY		
LOT	SH	BLOCK	LOT	SH	BLOCK

SCHOOL DISTRICT AND SPECIAL DISTRICTS					
SCHOOL: BYRAM HILLS CENT. SCHOOL DIST. 553601			WATER:		
FIRE: FIRE DISTRICT #2			SEWER:		
LIGHTING:			COORDINATE LOCATOR		

LEGEND	
PROPERTY LINE	TOWN LINE
ROAD BOUNDARY	COUNTY LINE
BLOCK LIMIT LINE	STATE LINE
ORIGINAL LOT LINE	DEED ACREAGE
RAILROAD BOUNDARY	CALCULATED ACREAGE
STREAM	DEED DIMENSION
RIGHT OF WAY/ESMT LINE	TAX MAP BLOCK NUMBER
	SCALED DIMENSION
	50(S)
	1.03AC
	1.03AC(SC)

FOR TAX PURPOSES ONLY

TOWN OF NORTH CASTLE

94.03 94.04

100.02 101.02

100.04 101.03 101.04

NOTE: THE INFORMATION CONTAINED ON THIS MAP IS NOT TO BE USED AS EVIDENCE IN ANY COURT OF LAW OR IN ANY PROCEEDING IN THE COUNTY CLERK'S OFFICE, AND IT IS NOT TO BE USED FOR PURPOSES OF CONFORMANCE.

NORTH CASTLE PLANNING BOARD APPROVAL:

APPROVED BY THE TOWN OF NORTH CASTLE PLANNING BOARD AS PER RESOLUTION No. _____ DATED: _____

PLANNING BOARD CHAIRMAN _____ DATE _____

TOWN OF NORTH CASTLE

WESTCHESTER COUNTY, NEW YORK

REVISED TO June 1, 2021

101.01

SCALE: 1"=200'

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Revisions

1/24/24 REVISIONS MPER COMMENTS 1/24/24

Drawing North

Client Name and Address

ARMONK ESTATES LLC
 21 BRASSIE ROAD
 EASTCHESTER, NY
 10709

Project Information

PROPOSED 1 FAMILY RESIDENCE

Situated At
 4 ARMONK HEIGHTS RD
 TOWN OF NORTH CASTLE
 WESTCHESTER CO.
 NEW YORK

TAX ASSESSMENT INFO:

SEC: 101.01
 BLOCK: 1
 TAX LOT: 34

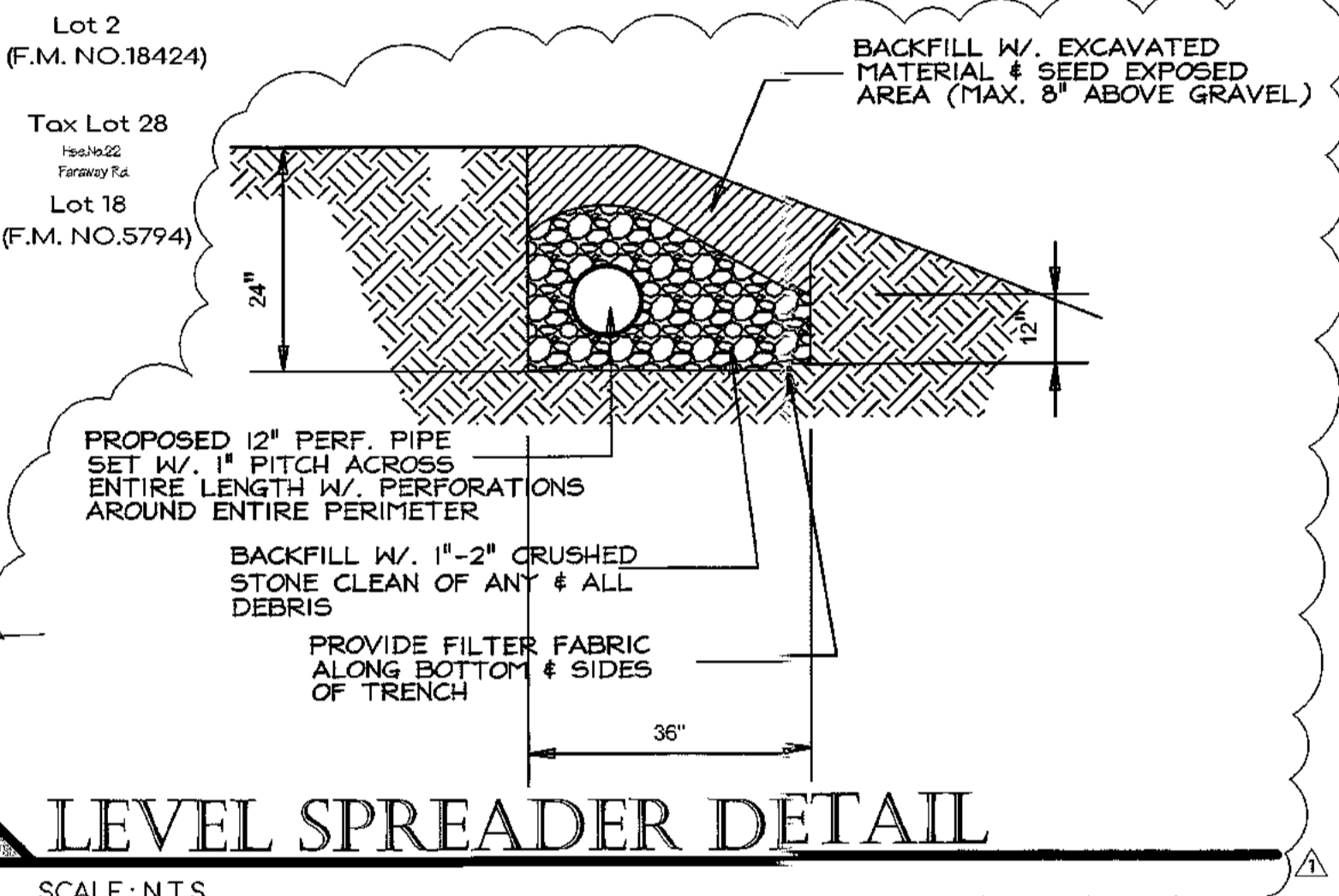
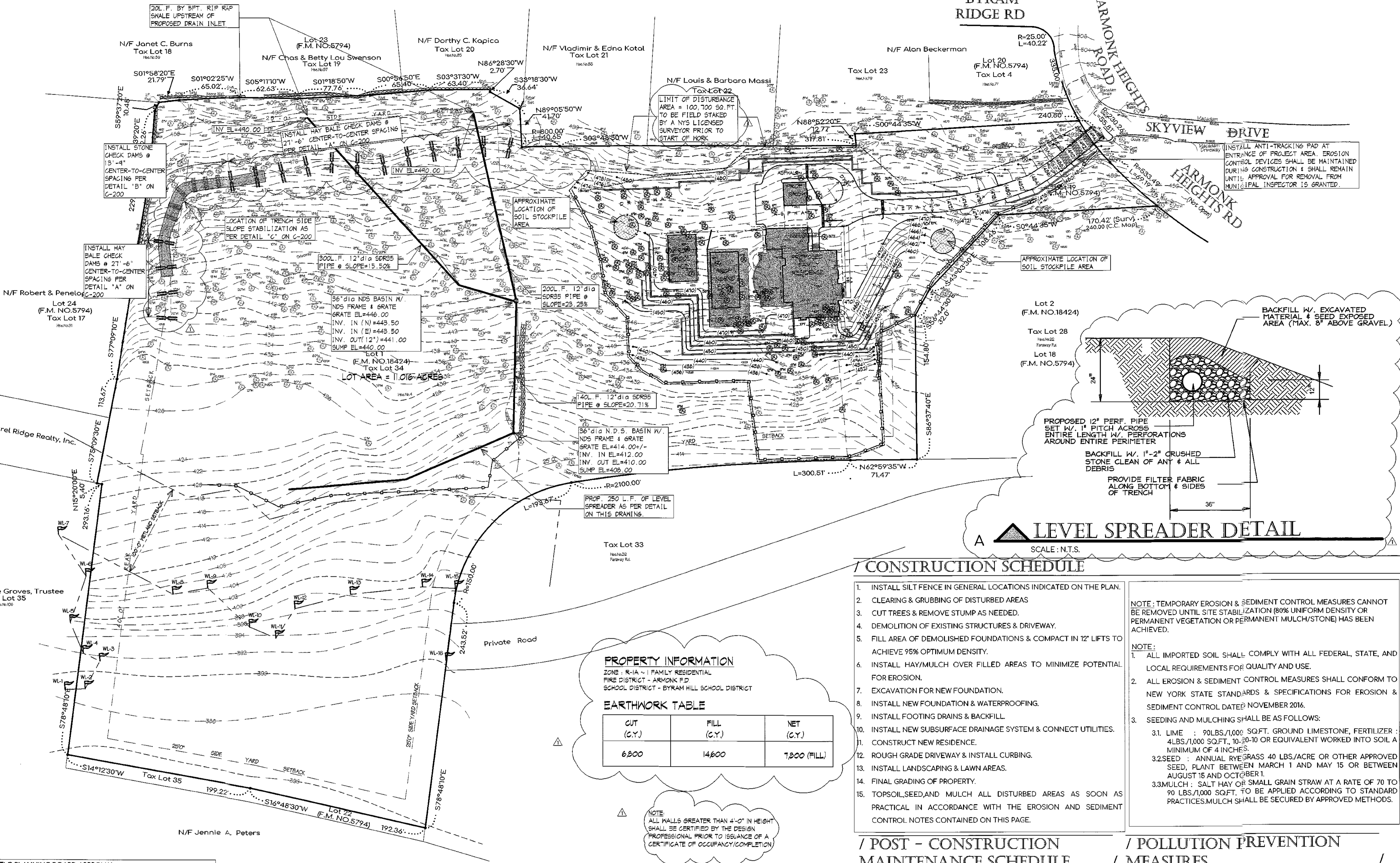
Job No. MISC
 Scale AS NOTED
 Date 1 OCT. 2023
 Drawn By M.M.
 Checked By M.M.
 Sheet

T101

Seal & Signature

Michael Mastrogio
 MICHAEL MASTROGIACOMO, P.E., L.S.
 NEW YORK STATE EX. NO. 38252
 CONNECTICUT STATE EX. NO. 2793

BYRAM RIDGE RD



CONSTRUCTION SCHEDULE

1. INSTALL SILT FENCE IN GENERAL LOCATIONS INDICATED ON THE PLAN.
2. CLEARING & GRUBBING OF DISTURBED AREAS
3. CUT TREES & REMOVE STUMP AS NEEDED.
4. DEMOLITION OF EXISTING STRUCTURES & DRIVEWAY.
5. FILL AREA OF DEMOLISHED FOUNDATIONS & COMPACT IN 12\"/>

NOTE: TEMPORARY EROSION & SEDIMENT CONTROL MEASURES CANNOT BE REMOVED UNTIL SITE STABILIZATION (80% UNIFORM DENSITY OR PERMANENT VEGETATION OR PERMANENT MULCH/STONE) HAS BEEN ACHIEVED.

NOTE:
 1. ALL IMPORTED SOIL SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS FOR QUALITY AND USE.
 2. ALL EROSION & SEDIMENT CONTROL MEASURES SHALL CONFORM TO NEW YORK STATE STANDARDS & SPECIFICATIONS FOR EROSION & SEDIMENT CONTROL DATED NOVEMBER 2016.
 3. SEEDING AND MULCHING SHALL BE AS FOLLOWS:
 3.1. LIME : 90 LBS./1,000 SQ.FT. GROUND LIMESTONE, FERTILIZER : 4 LBS./1,000 SQ.FT., 10-20-10 OR EQUIVALENT WORKED INTO SOIL A MINIMUM OF 4 INCHES.
 3.2. SEED : ANNUAL RYEGRASS 40 LBS./ACRE OR OTHER APPROVED SEED. PLANT BETWEEN MARCH 1 AND MAY 15 OR BETWEEN AUGUST 15 AND OCTOBER 1.
 3.3. MULCH : SALT HAY OR SMALL GRAIN STRAW AT A RATE OF 70 TO 90 LBS./1,000 SQ.FT. TO BE APPLIED ACCORDING TO STANDARD PRACTICES. MULCH SHALL BE SECURED BY APPROVED METHODS.

POST-CONSTRUCTION MAINTENANCE SCHEDULE

1. MAINTENANCE OF CONTROLS AFTER CONSTRUCTION: AREAS ALONG WEST STREET AND GRAY ROCK DRIVE SHOULD BE INSPECTED PERIODICALLY FOR THE FIRST FEW MONTHS AFTER CONSTRUCTION AND ON AN ANNUAL BASIS THEREAFTER. THEY SHOULD ALSO BE INSPECTED AFTER MAJOR STORM EVENTS.
2. DEBRIS AND LITTER REMOVAL: TWICE A YEAR, INSPECT FOR ACCUMULATED DEBRIS. ALSO, REMOVE ANY ACCUMULATIONS DURING EACH MOWING OPERATION.
3. EROSION CONTROL: UNSTABLE AREAS SHALL IMMEDIATELY BE STABILIZED WITH VEGETATION OR OTHER APPROPRIATE EROSION CONTROL MEASURES.
4. SEDIMENT REMOVAL: SEDIMENT SHOULD BE REMOVED AFTER IT HAS REACHED A MAXIMUM DEPTH OF FIVE INCHES ABOVE THE STORMWATER MANAGEMENT SYSTEM FLOOR.

POLLUTION PREVENTION MEASURES

1. CONTROL OF LITTER, CHEMICALS AND DEBRIS PER SEC. 171-78 (1)(a):
 • ALL CONSTRUCTION LITTER AND DEBRIS WILL BE CONTROLLED BY THE CONTRACTOR'S PERSONAL WHICH WILL INSPECT THE SITE DAILY AND ENSURE THAT ALL LITTER AND DEBRIS WILL BE PROPERLY PICKED UP AND PLACED INTO GARBAGE CONTAINER WHICH WILL BE MAINTAINED ON SITE FOR COLLECTION OF ALL DEBRIS AND LITTER.
 • STORAGE OF ANY LIQUIDS (I.E. GASOLINE) FOR POWER TOOLS WILL BE STORED IN A LOCKED CONTAINER ON SITE. NO OTHER CHEMICALS AND/OR LIQUIDS WILL BE MAINTAINED ON SITE.
2. CONSTRUCTION AND WASTE MATERIALS PER SEC. 171-78 (1)(b):
 • ALL CONSTRUCTION MATERIALS (I.E. LUMBER) SHALL BE STAGED IN THE DRIVEWAY AREA OF THE SITE ONLY TO MINIMIZE IMPACTS ON NEIGHBORING PROPERTIES.
 • ALL CONSTRUCTION WASTE WILL GO DIRECTLY INTO AVAILABLE CONTAINER TO BE PROPERLY DISPOSED OFF SITE.

NORTH CASTLE PLANNING BOARD APPROVAL:
 APPROVED BY THE TOWN OF NORTH CASTLE PLANNING BOARD AS PER RESOLUTION NO. _____ DATED: _____
 PLANNING BOARD CHAIRMAN _____ DATE _____

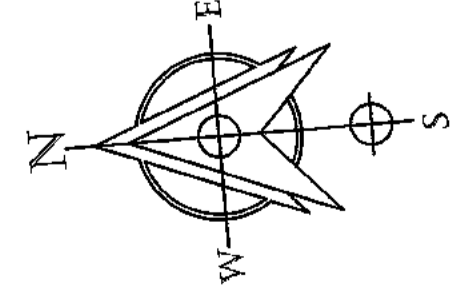
S = 1/8'	H = HEIGHT OF CHECK DAM (H) = 6 FT
S = 3/4'	C = CHANNEL SLOPE (H/H) = 0.24
S = 3/4'	SI = SPACING INTERVAL (H)
S = 3/4' / 0.24 = 2.958 H = 27'-6" Spacing	

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S = 3/4'	SI = SPACING INTERVAL (H)
S = 3/4' / 0.24 = 2.958 H = 27'-6" Spacing	

EROSION CONTROL & TREE REMOVAL PLAN

SCALE: 1" = 50'

TOPOGRAPHIC INFORMATION TAKEN FROM A SURVEY BY MASTROGIACOMO ENGINEERING PC DATED 12/1/2023



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Revisions
 3/24/24 REVISIONS MPER COMMENTS 1/8/24

Drawing North

Client Name and Address
ARMONK ESTATES LLC
 21 BRASSIE ROAD
 EASTCHESTER, NY 10709

Project Information
PROPOSED 1 FAMILY RESIDENCE
 Situated At
 4 ARMONK HEIGHTS RD
 TOWN OF NORTH CASTLE
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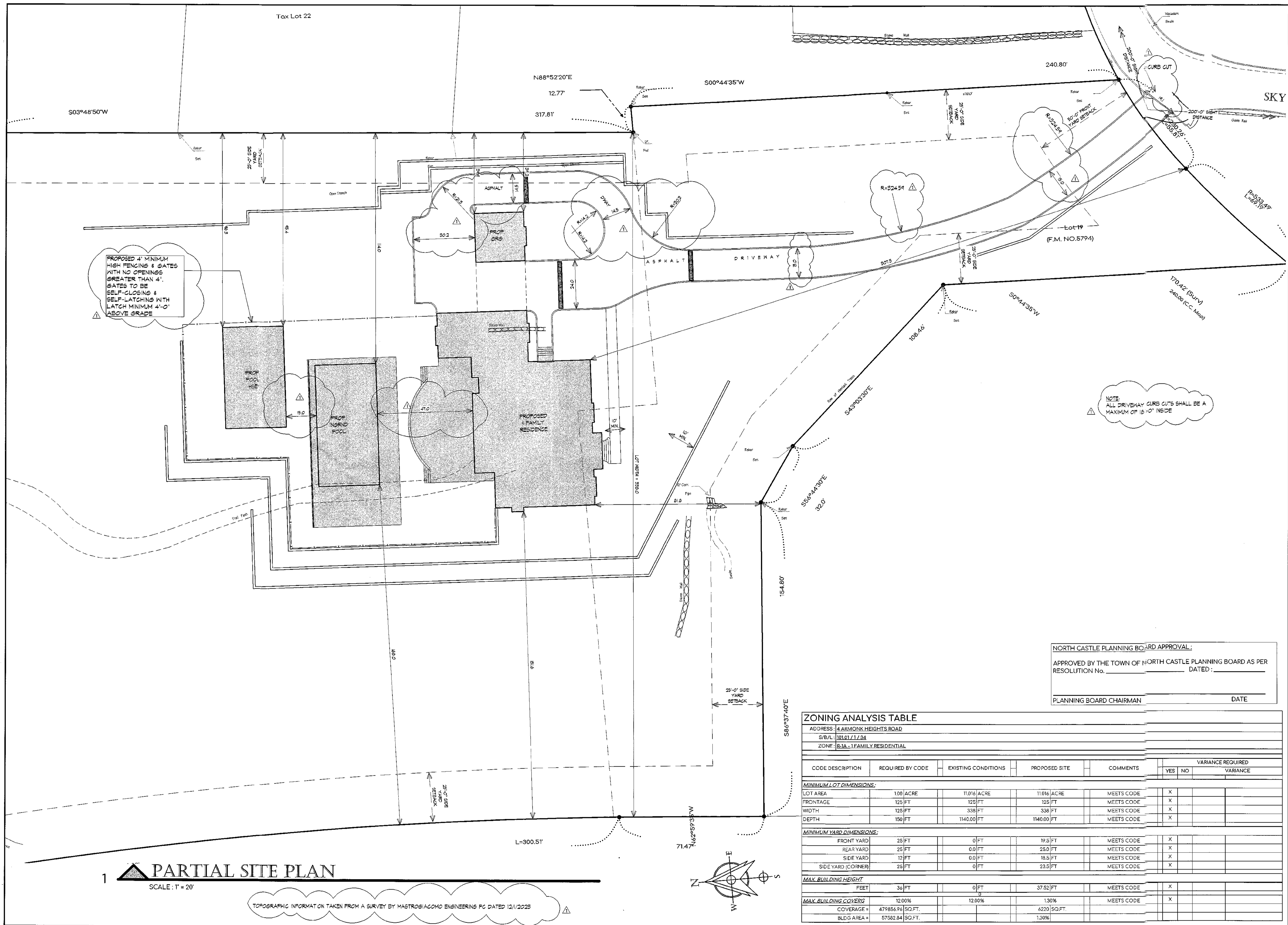
TAX ASSESSMENT INFO:
 SEC: 10101
 BLOCK: 1
 TAX LOT: 34

Job No. MISC
 Scale AS NOTED
 Date 1 OCT. 2023
 Drawn By M.M.
 Checked By M.M.
 Sheet

Seal & Signature

C100
 MICHAEL MASTROGIACOMO, P.E., E.S.
 NEW YORK STATE LICENSE NO. 27351
 CONNECTICUT STATE SE & LE LIC NO. 1393

EROSION CONTROL & TREE REMOVAL PLAN



PROPOSED 4' MINIMUM HIGH FENCING & GATES WITH NO OPENINGS GREATER THAN 4'. GATES TO BE SELF-CLOSING & SELF-LATCHING WITH LATCH MINIMUM 4'-0" ABOVE GRADE

NOTE: ALL DRIVEWAY CURB CUTS SHALL BE A MAXIMUM OF 18'-0" IN-SIDE

NORTH CASTLE PLANNING BOARD APPROVAL:
 APPROVED BY THE TOWN OF NORTH CASTLE PLANNING BOARD AS PER RESOLUTION No. _____ DATED: _____
 PLANNING BOARD CHAIRMAN _____ DATE _____

ZONING ANALYSIS TABLE

ADDRESS: 4 ARMONK HEIGHTS ROAD
 S/B/L: 101.01/1134
 ZONE: R1A - 1 FAMILY RESIDENTIAL

CODE DESCRIPTION	REQUIRED BY CODE	EXISTING CONDITIONS	PROPOSED SITE	COMMENTS	VARIANCE REQUIRED	
					YES	NO
MINIMUM LOT DIMENSIONS:						
LOT AREA	100 ACRE	11,016 ACRE	11,016 ACRE	MEETS CODE	X	
FRONTAGE	125 FT	125 FT	125 FT	MEETS CODE	X	
WIDTH	125 FT	338 FT	338 FT	MEETS CODE	X	
DEPTH	150 FT	1140.00 FT	1140.00 FT	MEETS CODE	X	
MINIMUM YARD DIMENSIONS:						
FRONT YARD	25 FT	0 FT	19.5 FT	MEETS CODE	X	
REAR YARD	25 FT	0.0 FT	25.0 FT	MEETS CODE	X	
SIDE YARD	12 FT	0.0 FT	18.5 FT	MEETS CODE	X	
SIDE YARD (CORNER)	25 FT	0 FT	23.5 FT	MEETS CODE	X	
MAX. BUILDING HEIGHT						
FEET	36 FT	0 FT	37.52 FT	MEETS CODE	X	
MAX. BUILDING COVERG						
COVERG	479856.96 SQ.FT.	12.00%	6220 SQ.FT.	MEETS CODE	X	
BLDG AREA	57582.84 SQ.FT.		1.30%			

1 PARTIAL SITE PLAN
 SCALE: 1" = 20'

TOPOGRAPHIC INFORMATION TAKEN FROM A SURVEY BY MASTROGIACOMO ENGINEERS PC DATED 12/1/2023

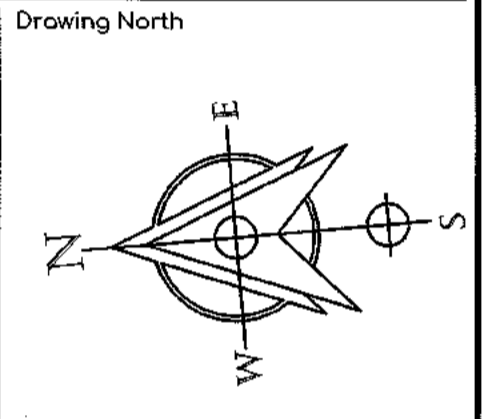
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- Revisions
- ▲ 3/24/24 REVISIONS MPER COMMENTS 1/8/24
 - ▲
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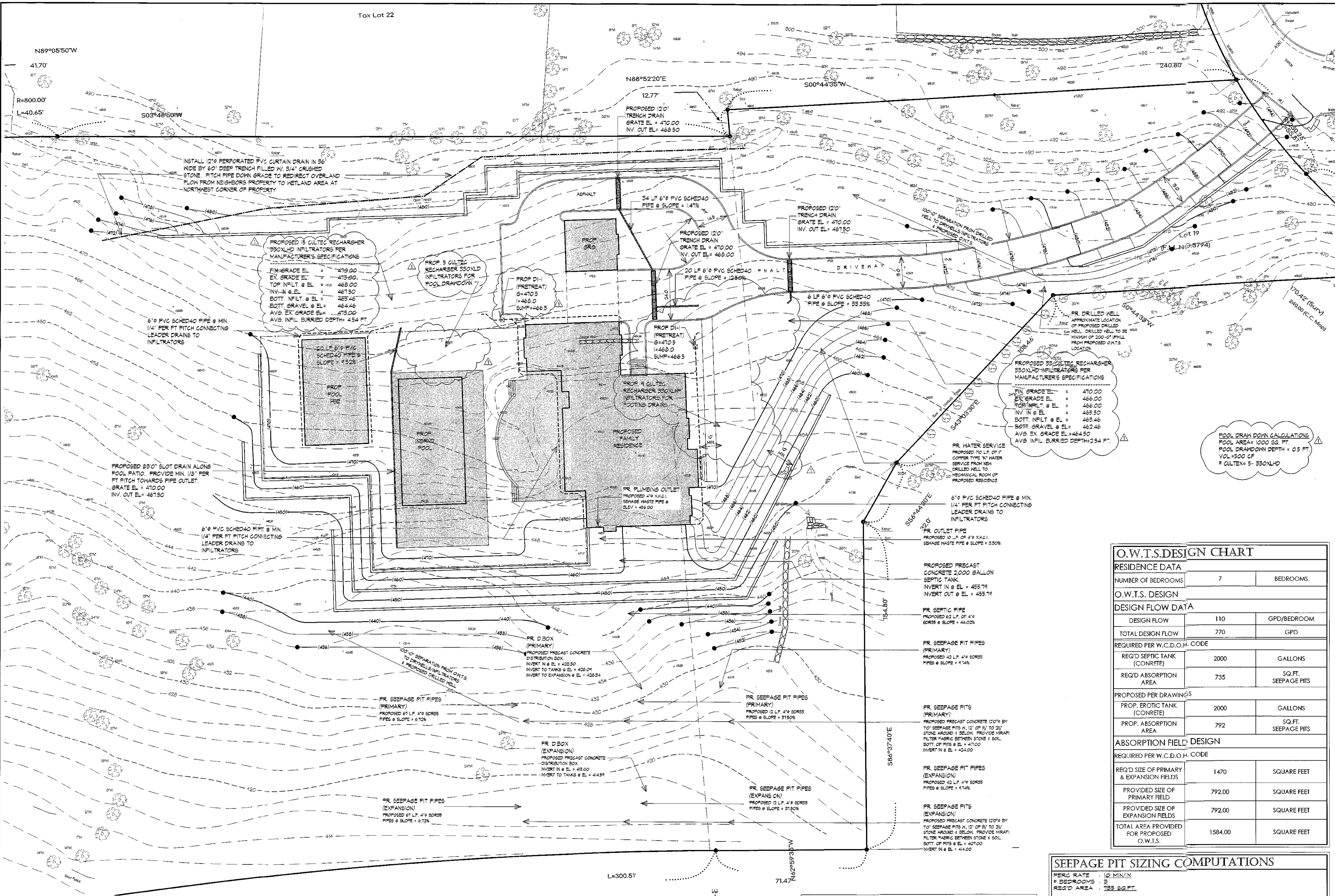
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 Drawn By M.M.
 Checked By M.M.
 Sheet

C101

Seq. & Signature

 MICHAEL MASTROGIACOMO, P.E., L.S.
 NEW YORK STATE PROFESSIONAL ENGINEER LICENSE NO. 11352
 CONNECTICUT STATE PROFESSIONAL ENGINEER LICENSE NO. 2792

PARTIAL SITE PLAN & ZONING ANALYSIS TABLE



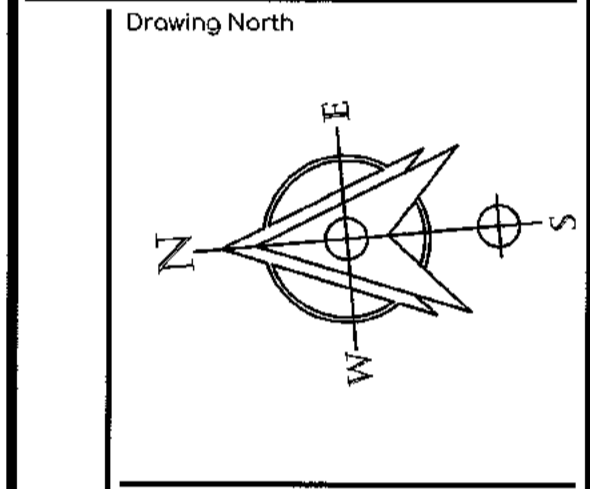
MASTROGIACOMO ENGINEERING, P.C.
 CONSULTING ENGINEERS & LAND SURVEYORS
 Licensed in New York and Connecticut
 10 MIDLAND AVENUE, SUITE 100, PO BOX 287, N.Y. 10573
 Tel.: 914-920-5372
 Email: admin@mastrogiacomop.com
 www.mastrogiacomop.com

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Revisions

3/24/24 REVISIONS MPER COMMENTS 1/8/24



Client Name and Address

ARMONK ESTATES LLC
 21 BRASSIE ROAD
 EASTCHESTER, NY
 10709

Project Information

PROPOSED 1 FAMILY RESIDENCE

Situated At
 4 ARMONK HEIGHTS RD
 TOWN OF NORTH CASTLE
 WESTCHESTER CO.
 NEW YORK

TAX ASSESSMENT INFO:

SEC: 10101
 BLOCK: 1
 TAX LOT: 34

Job No. MISC
 Scale AS NOTED
 Date 1 OCT 2023
 Drawn By M.M.
 Checked By M.M.
 Sheet

C102

Seal & Signature

MICHAEL MASTROGIACOMO, P.E., S.E.
 NEW YORK STATE LICENSE NO. 12589
 CONNECTICUT STATE P.E. & L.S. NO. 1073

O.W.T.S. DESIGN CHART			
RESIDENCE DATA			
NUMBER OF BEDROOMS	7	BEDROOMS	
O.W.T.S. DESIGN			
DESIGN FLOW DATA			
DESIGN FLOW	110	GPD/BEDROOM	
TOTAL DESIGN FLOW	770	GPD	
REQUIRED PER W.C.D.O.H. CODE			
REQ'D SEPTIC TANK (CONCRETE)	2000	GALLONS	
REQ'D ABSORPTION AREA	735	SQ.FT. SEEPAGE PITS	
PROPOSED PER DRAWINGS			
PROP. SEPTIC TANK (CONCRETE)	2000	GALLONS	
PROP. ABSORPTION AREA	792	SQ.FT. SEEPAGE PITS	
ABSORPTION FIELD DESIGN			
REQUIRED PER W.C.D.O.H. CODE			
REQ'D SIZE OF PRIMARY & EXPANSION FIELDS	1470	SQUARE FEET	
PROVIDED SIZE OF PRIMARY FIELD	792.00	SQUARE FEET	
PROVIDED SIZE OF EXPANSION FIELDS	792.00	SQUARE FEET	
TOTAL AREA PROVIDED FOR PROPOSED O.W.T.S.	1584.00	SQUARE FEET	

SEEPAGE PIT SIZING COMPUTATIONS	
PERC RATE	10 MIN/IN
# BEDROOMS	5
REQ'D AREA	735 SQ.FT.
ABSORPTION AREA FOR CYLINDER (Ca) = Pi x D x H	
MAX. DEPTH OF SEEPAGE PIT = 15.0' - 5' SEPARATION - 1' COVER = 9'-0" = H	
TRY 11'-0" SEEPAGE PIT W/ 12" OF STONE 1' D = 12.0'	
Ca = (3.142) x (12) x (9) = 263.95 SQ.FT.	
# SEEPAGE PITS = 735.00 / 263.95 = 2.79 USE 3 - 12' X 1' DEEP 6.0"	263.95

NORTH CASTLE PLANNING BOARD APPROVAL:

APPROVED BY THE TOWN OF NORTH CASTLE PLANNING BOARD AS PER RESOLUTION No. _____ DATED: _____

PLANNING BOARD CHAIRMAN _____ DATE _____

PARTIAL GRADING & UTILITY PLAN

SCALE: 1" = 20'

TOPOGRAPHIC INFORMATION TAKEN FROM A SURVEY BY MASTROGIACOMO ENGINEERING PC DATED 12/1/2023

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Revisions

▲	3/24/24 REVISIONS MFER COMMENTS 1/8/24
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Drawing North

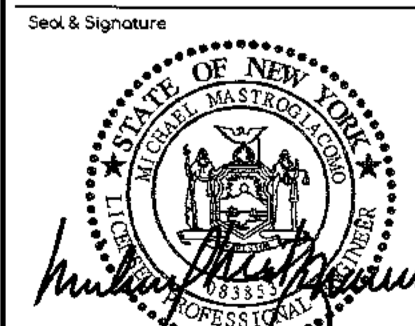
Client Name and Address
ARMONK ESTATES LLC
21 BRASSIE ROAD
EASTCHESTER, NY
10709

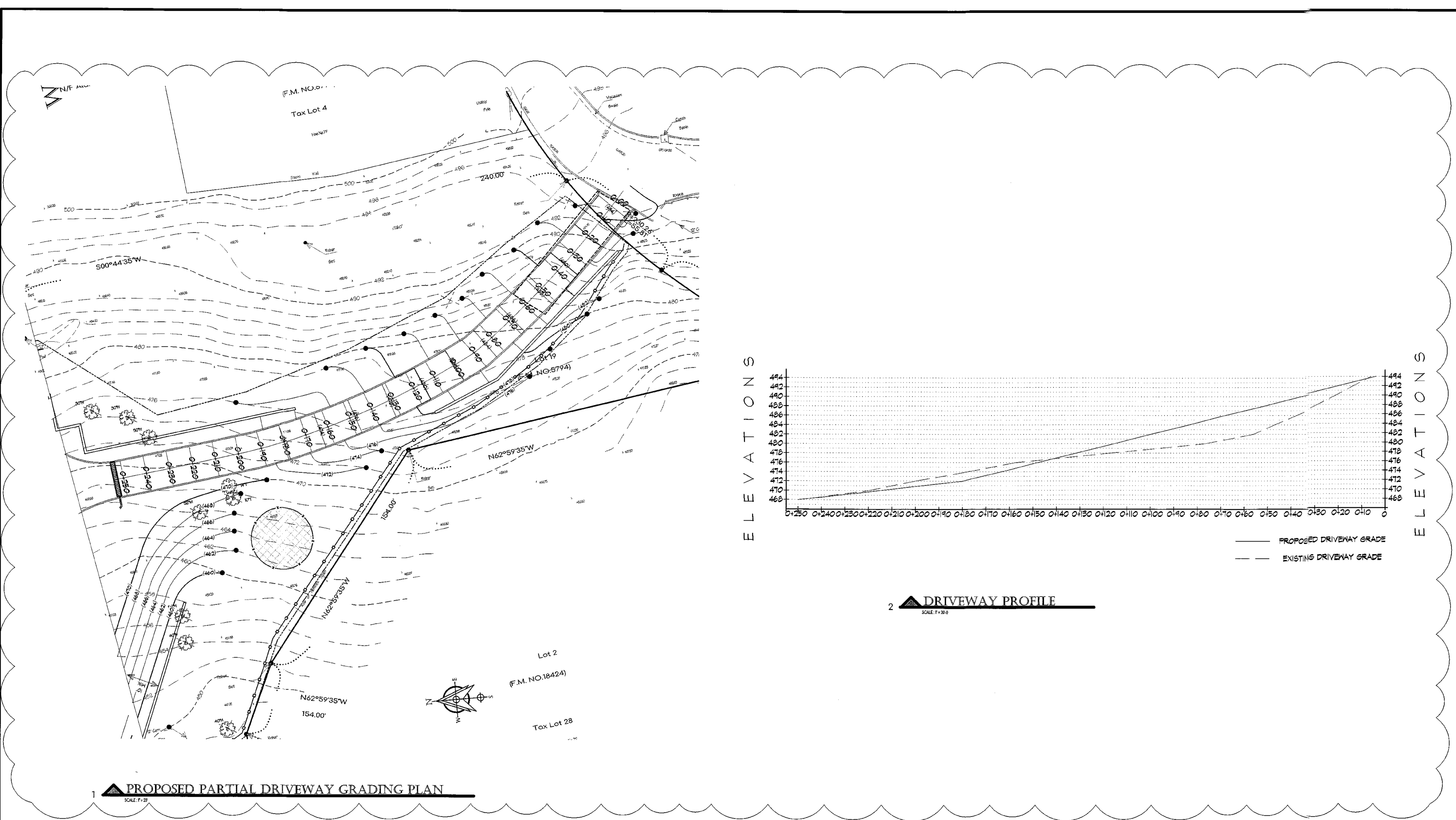
Project Information
PROPOSED 1 FAMILY RESIDENCE
Sited At
4 ARMONK HEIGHTS RD
TOWN OF NORTH CASTLE
WESTCHESTER CO.
NEW YORK

TAX ASSESSMENT INFO:
SEC: 101.01
BLOCK: 1
TAX LOT: 34

Job No. MISC
Scale AS NOTED
Date 1 OCT, 2023
Drawn By M.M.
Checked By M.M.
Sheet

C103

Seal & Signature

MICHAEL MASTROGIACOMO, P.E., L.S.
NEW YORK STATE LICENSE NO. 02862
CONNECTICUT STATE P.E. LICENSE NO. 2713



PROPOSED PARTIAL DRIVEWAY GRADING PLAN AND PROFILE



TECHNICAL SPECIFICATIONS

DURA SLOPE™ CHANNEL DRAINS

Specifications: NDS Dura Slope™ is a 6 1/2" wide, 48" long trench drain system with a built-in slope of 0.7%... Each channel section is molded of gray structural foam polypropylene with UV inhibitors and has a 4" inside diameter with a 2" radius bottom.

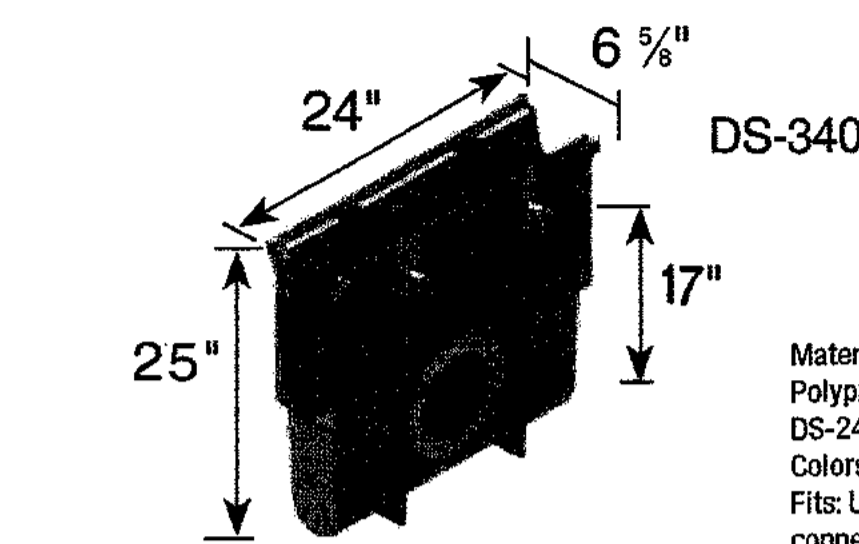
Technical drawing showing channel drain components, dimensions, and a detailed table of specifications for various sizes and materials.

851 N. Harvard Avenue, Lindero, CA 91327, 800-725-1194. Visit ndspro.com for specs, detail drawings, and case studies.

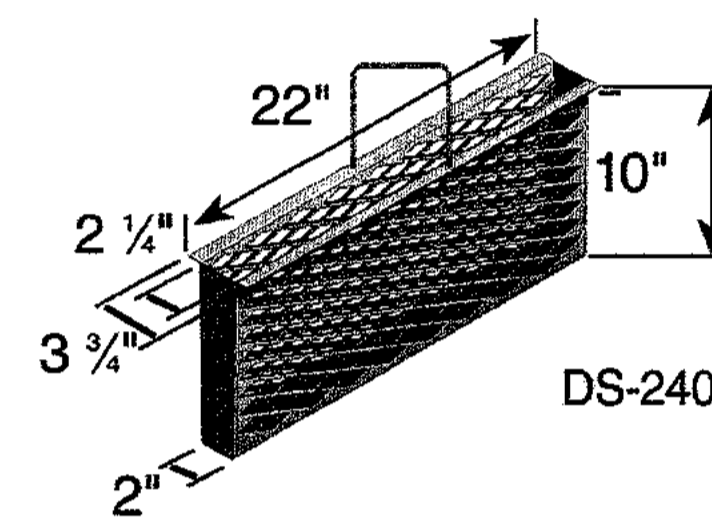


TECHNICAL SPECIFICATIONS

DURA SLOPE IN-LINE CATCH BASIN & DURA SLOPE TRASH BUCKET



Material: DS-340: UV Protected High Density Polypropylene (HDPE) DS-240: Zinc Plated Steel Colors: Gray (DS-340), Zinc Plated Steel (DS-240) Fits: Use with NDS Universal Outlets for pipe connections. DS-240 only works with DS-340 catch basin. DS-240 does not work with DS-200 frame.



851 N. Harvard Avenue, Lindero, CA 91327, 800-725-1194. Visit ndspro.com for specs, detail drawings, and case studies.

We put water in its place

We put water in its place

DURA SLOPE™ TRENCH DRAIN - PRE-SLOPED

Standard Grates

Technical drawing showing various grate options with dimensions and a table of specifications for different grate types and materials.

CHANNEL & TRENCH DRAINS

PROP GRATE TO USE

A

NDS TRENCH DRAIN & IN-LINE CATCH BASIN SPECIFICATIONS

SCALE: N.T.S.

POP-UP DRAINAGE EMITTERS

3" & 4" Pop-up Drainage Emitter (continued)

Technical drawing showing pop-up drainage emitter components, dimensions, and a table of specifications for different emitter sizes and materials.

DRAINAGE

POP-UP EMITTER TO USE

for videos, specs, detail drawings and case studies, visit ndspro.com

A

PIPE TRENCH DETAIL

N.T.S.

Technical drawing showing pipe trench detail with layers: FINAL BACKFILL, MIN. COVER TO FLEXIBLE PAVEMENT, H, INITIAL BACKFILL, HAUNCH, BEDDING, SUITABLE FOUNDATION, MIN. TRENCH WIDTH (SEE TABLE), SPRINGLINE, MIN. COVER TO RIGID PAVEMENT, H. Includes notes on installation and material requirements.

B

PATIO DETAIL

N.T.S.

Technical drawing showing patio detail with layers: 4" CONC. BASE (3500PSI) W/ 6/8x10/10 WWM, 2' MORTAR SETTING BED, BLUESTONE FINISH, 4" ITEM #4 BASE, COMPACTED EARTH SUB-BASE, PROP. BELGIUM BLOCK CURB, FIN. GRADE, 6" CURB REVEAL, PROP. 2" ASPHALT WEARING COURSE, 4" OF ITEM #4 BASE ON COMPACTED SOIL, MIN. 6" CONC. BASE BELOW & MIN. 6" CONC. BACKING @ CURB. Includes approval stamp for North Castle Planning Board.

D

DRIVEWAY DETAIL

N.T.S.

MASTROGIACOMO ENGINEERING, P.C. CONSULTING ENGINEERS & LAND SURVEYORS. Licensed in New York and Connecticut. 10 MILBURN AVENUE, SUITE 100, POCT CHESTER, N.Y. 10573. Tel: 914-929-6372. Email: admin@mastrogiacomopcc.com www.mastrogiacomopcc.com

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Revisions table with columns for revision number, date, and description.

Drawing North

Client Name and Address: ARMONK ESTATES LLC, 21 BRASSIE ROAD, EASTCHESTER, NY 10709

Project Information: PROPOSED 1 FAMILY RESIDENCE, Situated At 4 ARMONK HEIGHTS RD, TOWN OF NORTH CASTLE, WESTCHESTER CO., NEW YORK

TAX ASSESSMENT INFO: SEC: 10101, BLOCK: 1, TAX LOT: 34

Job No. MISC, Scale AS NOTED, Date 1 OCT. 2023, Drawn By M.M., Checked By M.M., Sheet

C201

Professional Engineer Seal for Michael Mastrogiacomo, P.E., License No. 11111, State of New York.

STORMWATER COMPUTATIONS & CONSTRUCTION DETAILS

CULTEC RECHARGER 330XLHD PRODUCT SPECIFICATIONS

GENERAL:
CULTEC RECHARGER 330XLHD CHAMBERS ARE DESIGNED FOR UNDERGROUND STORMWATER MANAGEMENT. THE CHAMBERS MAY BE USED FOR RETENTION, RECHARGING, DETENTION OR ON-SITE STORMWATER RUNOFF.

CHAMBER PARAMETERS:

- THE CHAMBER WILL BE MANUFACTURED IN THE U.S.A. BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832).
- THE CHAMBER WILL BE VACUUM THERMOFORMED OF BLACK POLYETHYLENE.
- THE CHAMBER WILL BE ARCHED IN SHAPE.
- THE CHAMBER WILL BE OPEN-TOPPED.
- THE CHAMBER WILL BE JOINED USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS OR SEPARATE END WALLS.
- THE NORMAL CHAMBER DIMENSIONS OF THE CULTEC RECHARGER 330XLHD SHALL BE 32.5 INCHES (828 mm) TALL, 12 INCHES (305 mm) WIDE AND 8.5 FEET (2.59 m) LONG. THE INSTALLED LENGTH OF A JOINED RECHARGER 330XLHD SHALL BE 1 FEET (305 mm).
- MAXIMUM INLET OPENING ON THE CHAMBER END WALL IS 24 INCHES (600 mm).
- THE CHAMBER WILL HAVE TWO SIDE PORTALS TO ACCEPT CULTEC HVLV FC-24 FEED CONNECTORS TO CREATE AN INTERNAL MANIFOLD. THE NORMAL DIMENSIONS OF EACH SIDE PORTAL WALL ARE 12.5 INCHES (318 mm) HIGH BY 11.5 INCHES (293 mm) WIDE. MAXIMUM ALLOWABLE OUTER DIAMETER (O.D.) PIPE SIZE IN THE SIDE PORTAL IS 11.75 INCHES (299 mm).
- THE NORMAL STORAGE VOLUME OF THE CULTEC RECHARGER 330XLHD FEED CONNECTOR SHALL BE 12 INCHES (305 mm) TALL, 18 INCHES (457 mm) WIDE AND 2.5 INCHES (64 mm) LONG.
- THE NORMAL STORAGE VOLUME OF THE RECHARGER 330XLHD CHAMBER SHALL BE 7.458 CF/FT (0.663 m³/m) WITHOUT STORAGE. THE NORMAL STORAGE VOLUME OF A JOINED RECHARGER 330XLHD SHALL BE 52.215 FT³/UNIT (1,478 M³/UNIT) WITHOUT STORAGE.
- THE NORMAL STORAGE VOLUME OF THE HVLV FC-24 FEED CONNECTOR SHALL BE 0.913 FT³/FT (0.026 M³/m) WITHOUT STORAGE.
- THE RECHARGER 330XLHD CHAMBER SHALL HAVE FIFTY-SEVEN DISCHARGE HOLES BORED INTO THE SIDEWALLS OF THE UNITS TO PROMOTE LATERAL CONVEYANCE OF WATER.
- THE RECHARGER 330XLHD CHAMBER SHALL HAVE 13 CORRUGATIONS.
- THE END WALL OF THE CHAMBER, WHEN PRESENT, WILL BE AN INTEGRAL PART OF THE CONTINUOUSLY FORMED UNIT. SEPARATE END PLATES CANNOT BE USED WITH THIS UNIT.
- THE RECHARGER 330XLHD STONE ALONE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO FULLY FORMED INTERNAL END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS.
- THE RECHARGER 330XLHD STARTER UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTERNAL END WALL AND ONE PARTIALLY FORMED INTERNAL END WALL WITH A LOWER TRANSFER OPENING OF 14 INCHES (356 mm) HIGH BY 24.5 INCHES (623 mm) WIDE.
- THE RECHARGER 330XLHD INTERMEDIATE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY OPEN END WALL AND ONE PARTIALLY FORMED INTERNAL END WALL WITH A LOWER TRANSFER OPENING OF 14 INCHES (356 mm) HIGH BY 24.5 INCHES (623 mm) WIDE.
- THE RECHARGER 330XLHD END UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTERNAL END WALL AND ONE FULLY OPEN END WALL HAVING NO SEPARATE END PLATES OR END WALLS.
- THE HVLV FC-24 FEED CONNECTOR MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT WILL FIT INTO THE SIDE PORTALS OF THE RECHARGER 330XLHD AND ACT AS CROSS FEED CONNECTIONS CREATING AN INTERNAL MANIFOLD.
- CHAMBERS MUST HAVE HORIZONTAL STIFFENING RIBS TO REDUCE DEFLECTION BETWEEN THE RIBS.
- HEAVY DUTY UNITS ARE DESIGNATED BY A COLOR STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.
- THE CHAMBER WILL HAVE A 5 INCH (127 mm) DIAMETER REMOTE INSPECTOR CAP LOCATED ON TOP OF THE ARCH IN THE CENTER OF EACH UNIT TO BE USED AS AN OPTIONAL INSPECTION PORT OR CLEAN-OUT.
- THE UNITS MAY BE PRIMED TO CUSTOM LENGTHS BY CUTTING BACK TO ANY CORRUGATION.
- THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED FACILITY.
- MAXIMUM ALLOWED COVER OVER TOP OF UNIT SHALL BE 12 FEET (3.66 m).
- THE CHAMBER WILL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.

CULTEC HVLV FC-24 FEED CONNECTOR PRODUCT SPECIFICATIONS

GENERAL:
CULTEC HVLV FC-24 FEED CONNECTORS ARE DESIGNED TO CREATE AN INTERNAL MANIFOLD FOR CULTEC RECHARGER 330XLHD STORMWATER CHAMBERS.

CHAMBER PARAMETERS:

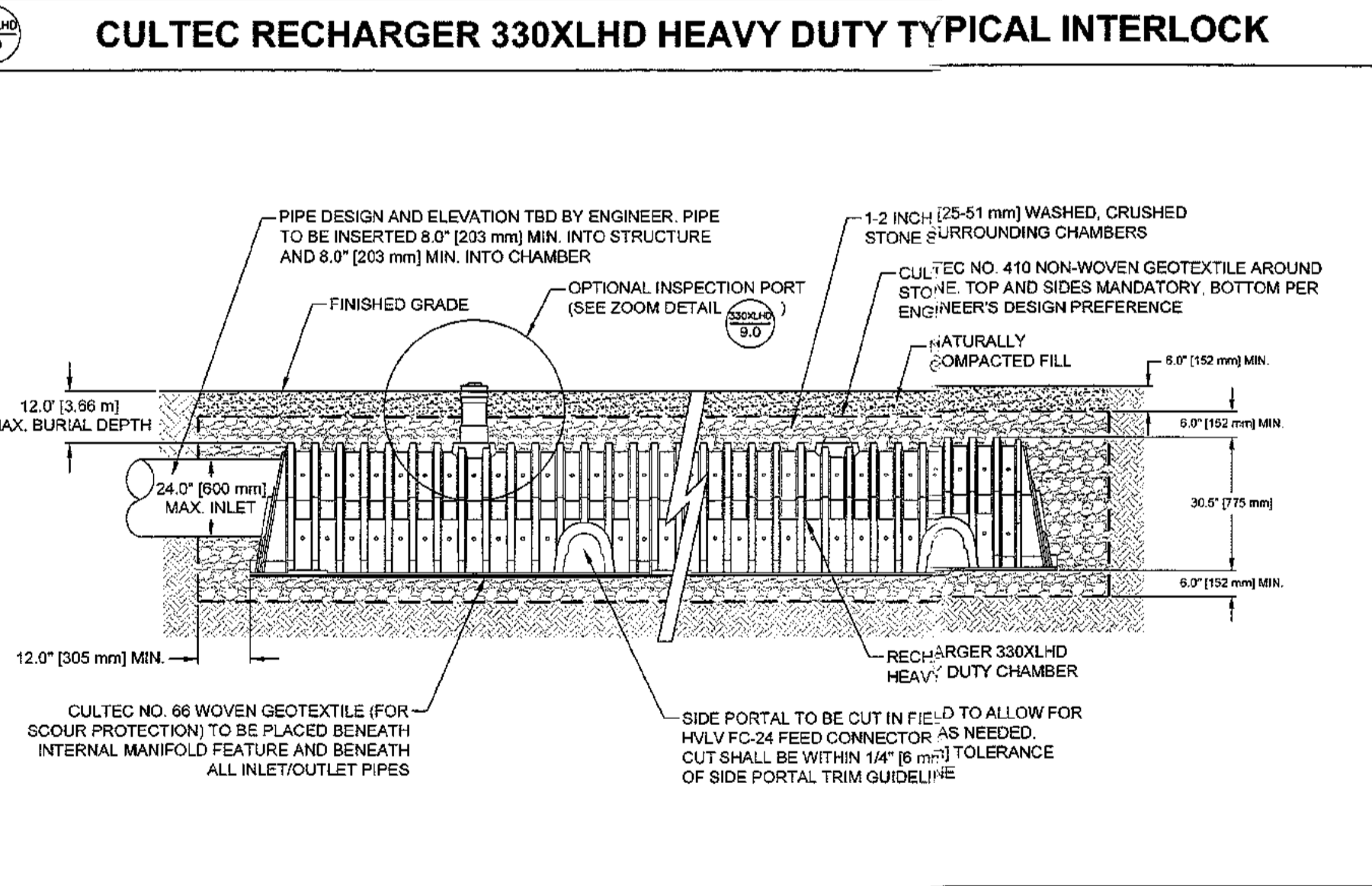
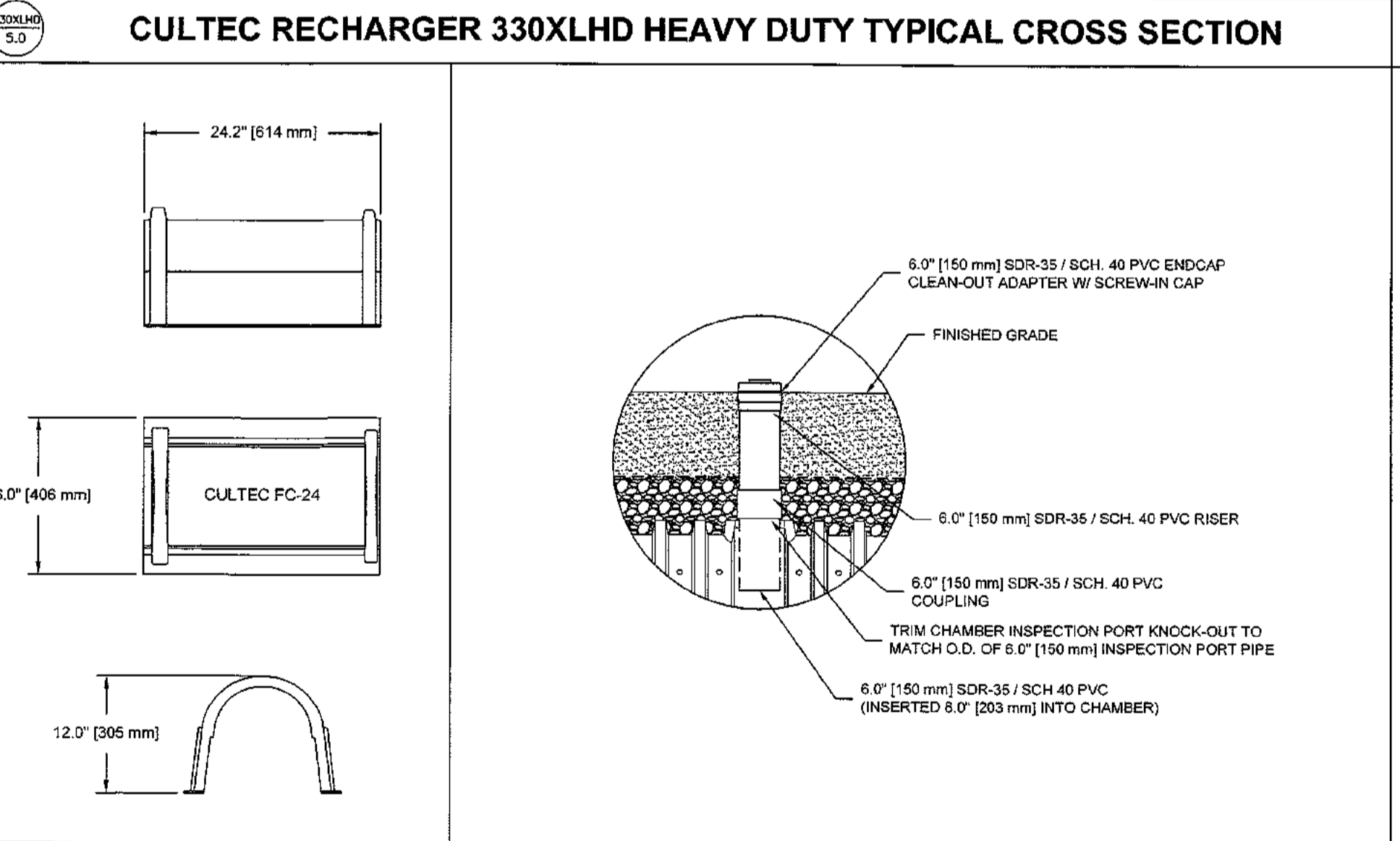
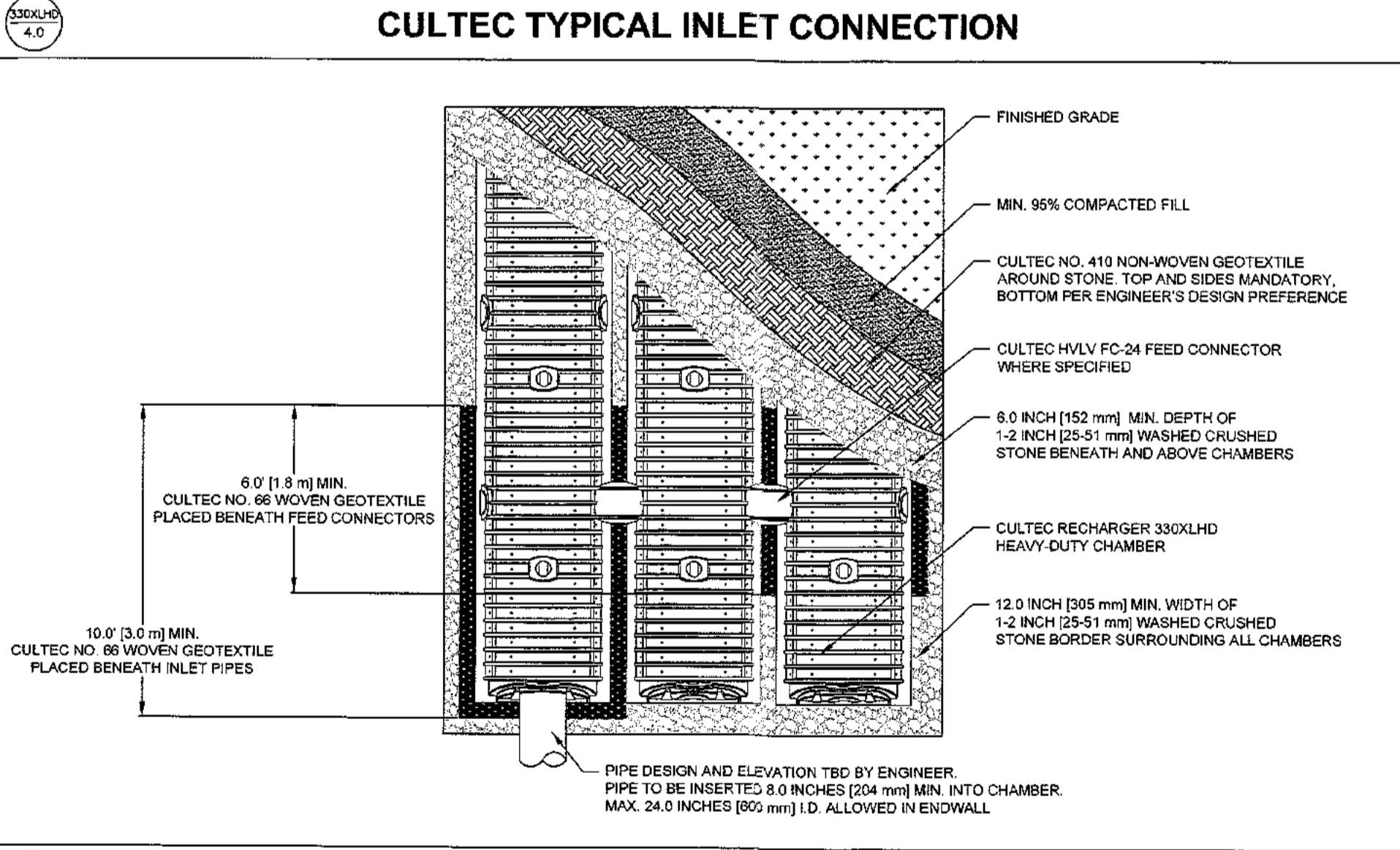
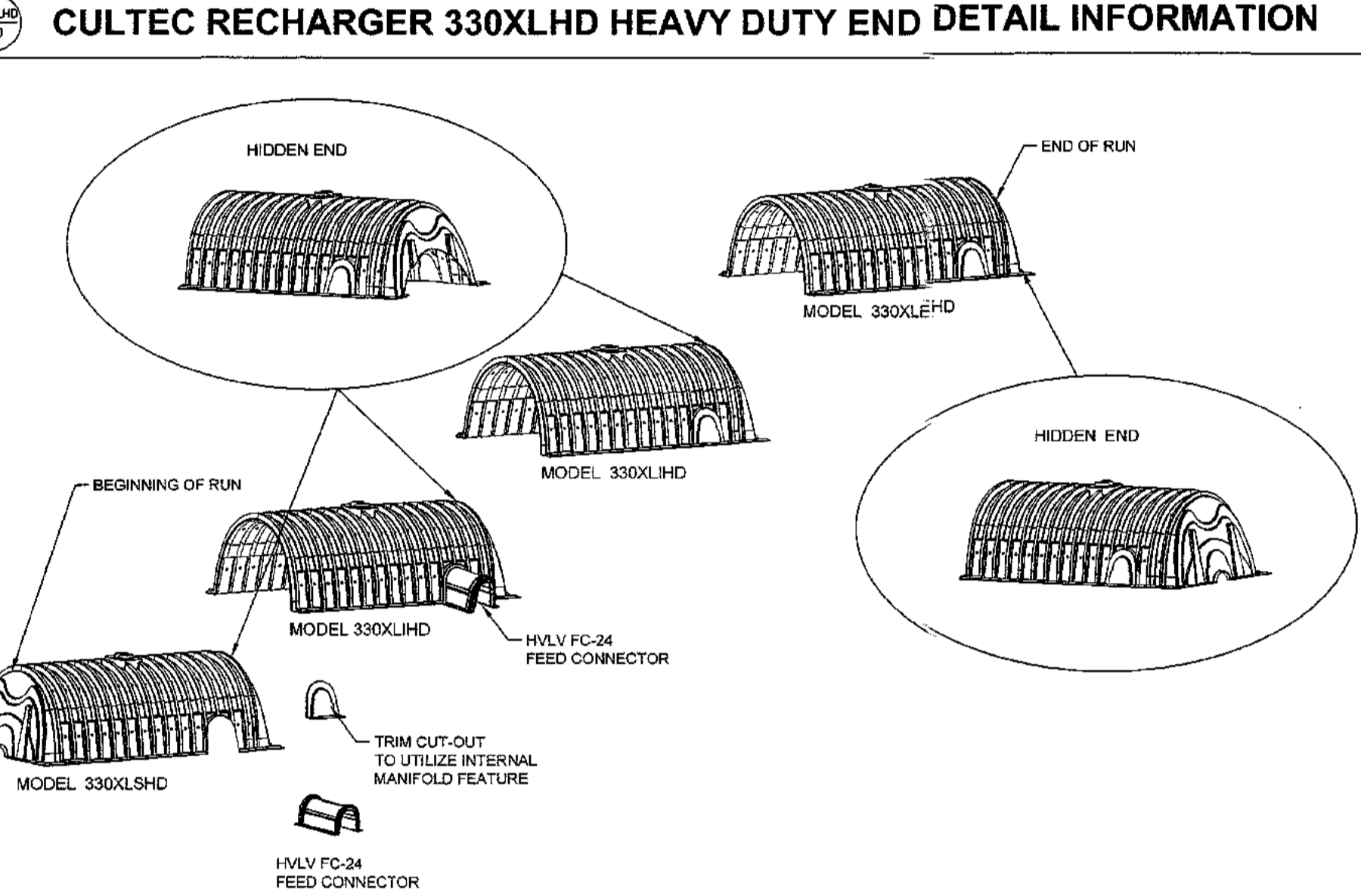
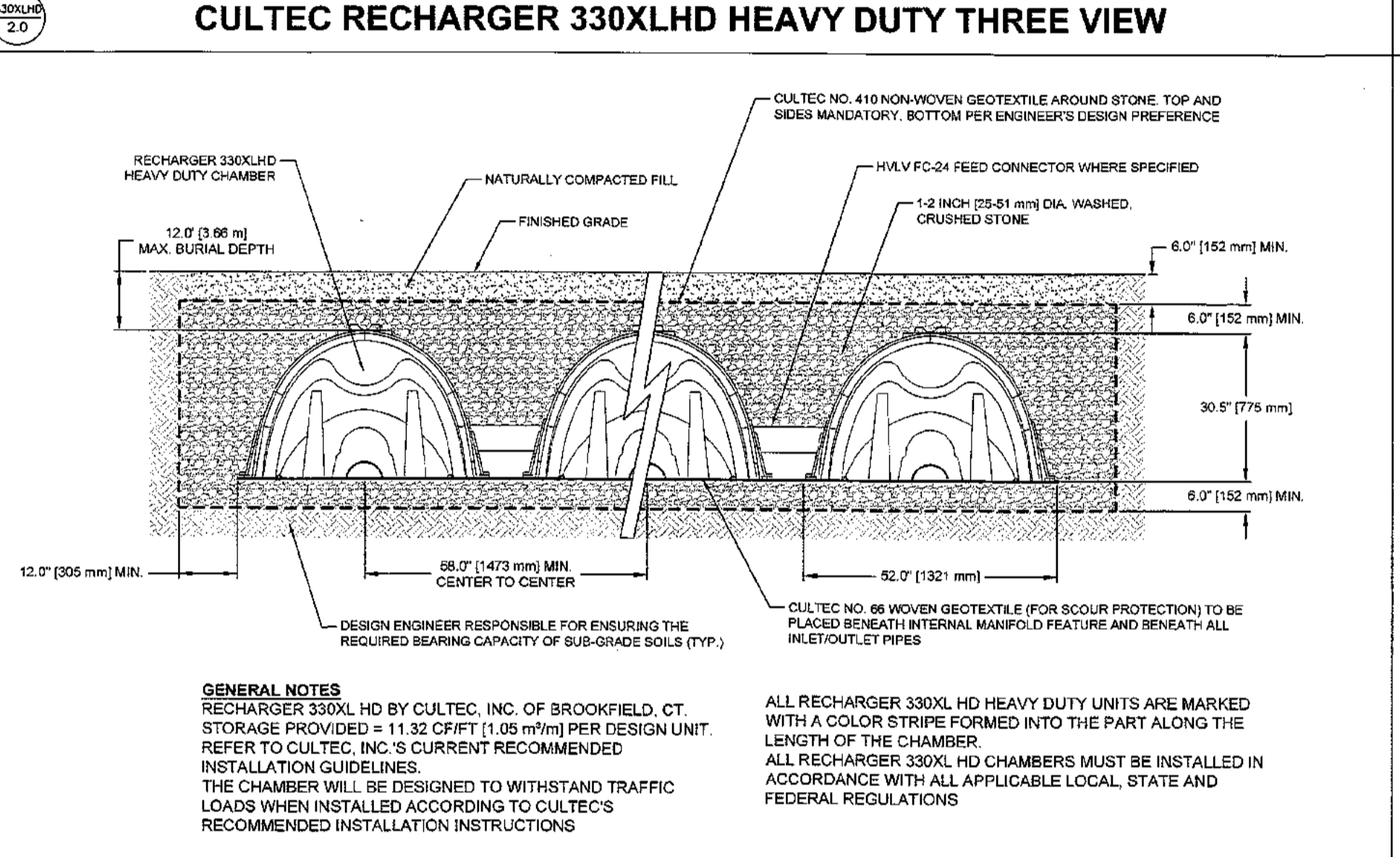
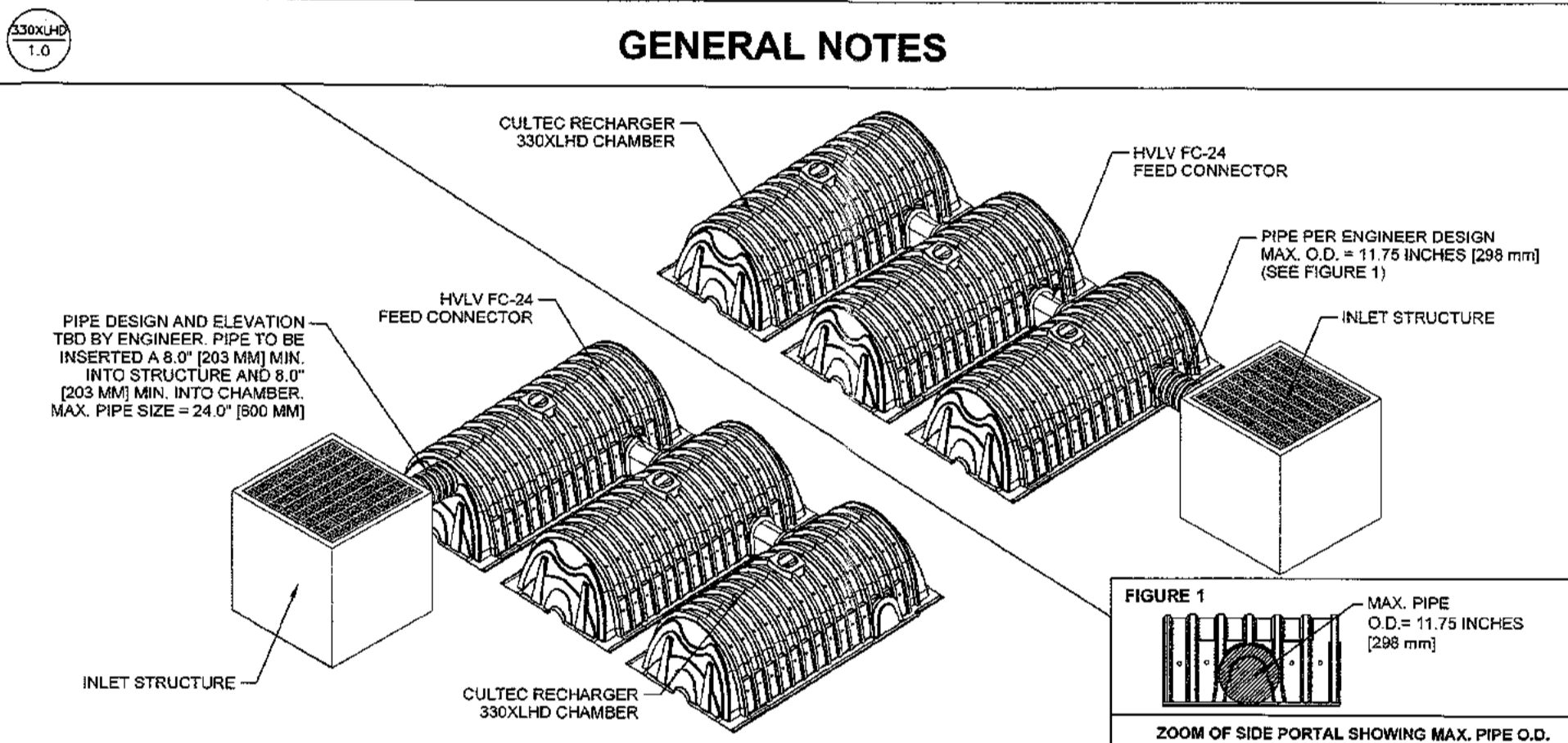
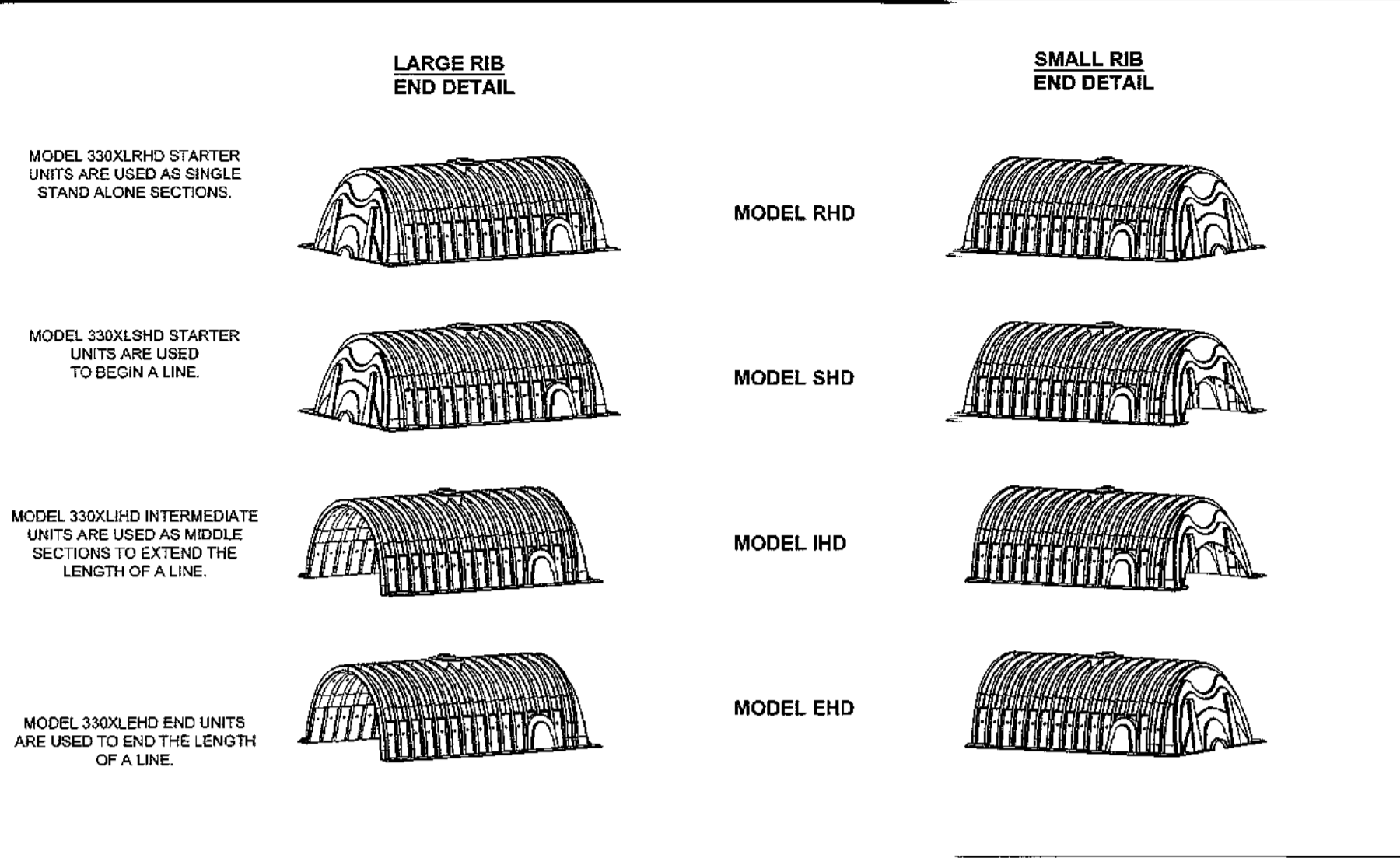
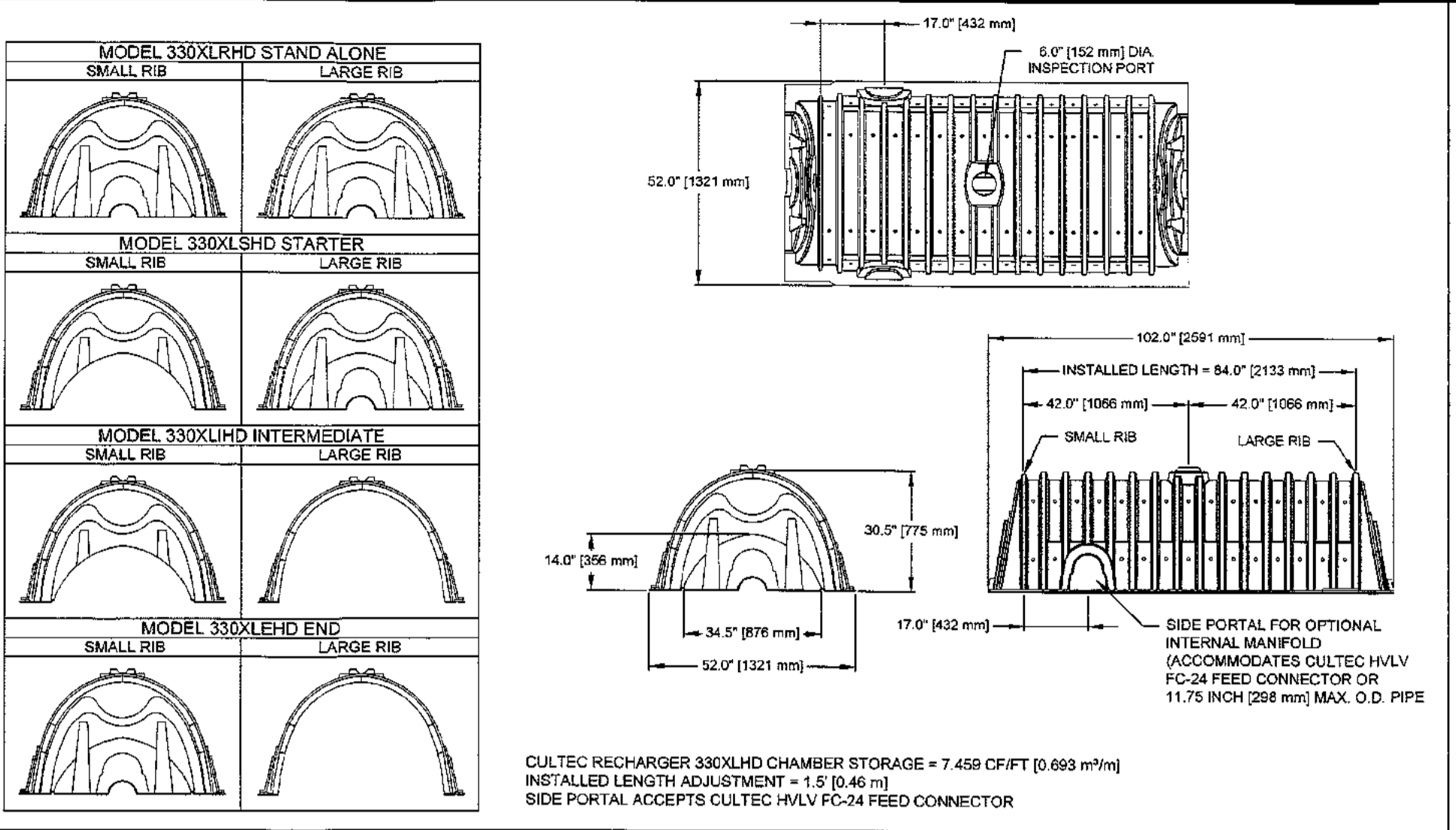
- THE CHAMBER WILL BE VACUUM THERMOFORMED OF BLACK HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HDPE).
- THE CHAMBER WILL BE ARCHED IN SHAPE.
- THE CHAMBER WILL BE OPEN-TOPPED.
- THE NORMAL CHAMBER DIMENSIONS OF THE CULTEC HVLV FC-24 FEED CONNECTOR SHALL BE 12 INCHES (305 mm) TALL, 18 INCHES (457 mm) WIDE AND 2.5 INCHES (64 mm) LONG.
- THE NORMAL STORAGE VOLUME OF THE HVLV FC-24 FEED CONNECTOR SHALL BE 0.913 FT³/FT (0.026 M³/m) WITHOUT STORAGE.
- THE HVLV FC-24 FEED CONNECTOR CHAMBER SHALL HAVE 2 CORRUGATIONS.
- THE HVLV FC-24 FEED CONNECTOR MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT WILL FIT INTO THE SIDE PORTALS OF THE CULTEC RECHARGER STORMWATER CHAMBER AND ACT AS CROSS FEED CONNECTIONS CREATING AN INTERNAL MANIFOLD.
- THE CHAMBER WILL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
- THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED FACILITY.

CULTEC NO. 66 WOVEN GEOTEXTILE

GENERAL:
CULTEC NO. 66 WOVEN GEOTEXTILE IS UTILIZED AS AN UNDERLAYMENT TO PREVENT SCOURING CAUSED BY WATER MOVEMENT WITHIN THE CULTEC CHAMBERS AND FEED CONNECTORS UTILIZING THE CULTEC MANIFOLD FEATURE.

GEOTEXTILE PARAMETERS:

- THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832).
- THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.
- THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH OF 315 LBS (1,400 N) PER ASTM D4832 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A TENSILE ELONGATION RESISTANCE OF 10% PER ASTM D4832 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A PUNCTURE RESISTANCE OF 800 PSI (4138 KPA) PER ASTM D5709 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A TEAR RESISTANCE OF 115 LBS (518 N) PER ASTM D4832 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A PUNCTURE RESISTANCE OF 150 LBS (680 N) PER ASTM D4832 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A GOR PUNCTURE RESISTANCE OF 800 LBS (4,000 N) PER ASTM D6741 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A BURST RESISTANCE OF 70% @ 800 PSI PER ASTM D4832 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A PERMITTIVITY RATING OF 0.05 SEC-1 PER ASTM D4811 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A WATER FLOW RATING OF 4 SMP/12 (150 LPM/42) PER ASTM D4811 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A PERCENT OPEN AREA OF 1% PER CHA215 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE AN APPARENT OPENING SIZE OF 45 US STD. SIEVE (0.425 MM) PER ASTM D4811 TESTING METHOD.
- THE GEOTEXTILE SHALL CONSIST OF A 100% HIGH-TENSILITY, SALT-AND-POLYPROPYLENE YARN.



CULTEC RECHARGER 330XLHD HEAVY DUTY PLAN VIEW

CULTEC HVLV FC-24 FEED CONNECTOR THREE VIEW

CULTEC INTERNAL MANIFOLD - OPTIONAL INSPECTION PORT DETAIL

CULTEC, Inc.
Subsurface Stormwater Management Systems
P.O. Box 280
878 Federal Road
Brookfield, CT 06804
www.cultec.com

PH: (203) 775-4416
PH: (800) 4-CULTEC
FX: (203) 775-1462
tech@cultec.com

THIS DRAWING WAS PREPARED TO SUPPORT THE DESIGN ENGINEER FOR THE PROPOSED SYSTEM. IT IS THE ULTIMATE RESPONSIBILITY OF THE DESIGN ENGINEER TO ASSURE THAT THE STORMWATER SYSTEM'S DESIGN IS IN FULL COMPLIANCE WITH ALL APPLICABLE LAWS AND REGULATIONS. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ENSURE THAT THE CULTEC PRODUCTS ARE DESIGNED IN ACCORDANCE WITH CULTEC'S MINIMUM REQUIREMENTS. CULTEC INC. DOES NOT APPROVE PLANS, SIZING, OR SYSTEM DESIGNS. THE DESIGNING ENGINEER IS RESPONSIBLE FOR ALL DESIGN DECISIONS.

**RECHARGER 330XLHD
DETAIL SHEET
NON- TRAFFIC APPLICATION**

CULTEC RECHARGER® 330XLHD	
PROJECT NO.:	DATE: 02/2016
DESIGNED BY: CULTEC, INC	DRAWN BY: TECH
SCALE: N.T.S.	SHEET NO: 2 OF 2

NORTH CASTLE PLANNING BOARD APPROVAL:
APPROVED BY THE TOWN OF NORTH CASTLE PLANNING BOARD AS PER RESOLUTION No. _____ DATED: _____
PLANNING BOARD CHAIRMAN _____ DATE _____

MASTROGIACOMO
ENGINEERING, P.C.
CONSULTING ENGINEERS & LAND SURVEYORS
Licensed in New York and Connecticut
10 MIDLAND AVENUE, SUITE 100, PO BOX CHESTER, N.Y. 10523
Tel.: 914-624-5372
Email: admin@mosegnpc.com
www.mosegnpc.com

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Revisions

No.	Revision	Date
1	3/24/24 REVISIONS MPER COMMENTS 1/8/24	
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Drawing North

Client Name and Address

ARMONK ESTATES LLC
21 BRASSIE ROAD
EASTCHESTER, NY 10709

Project Information

PROPOSED 1 FAMILY RESIDENCE

Situated At
4 ARMONK HEIGHTS RD
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WESTCHESTER CO.
NEW YORK

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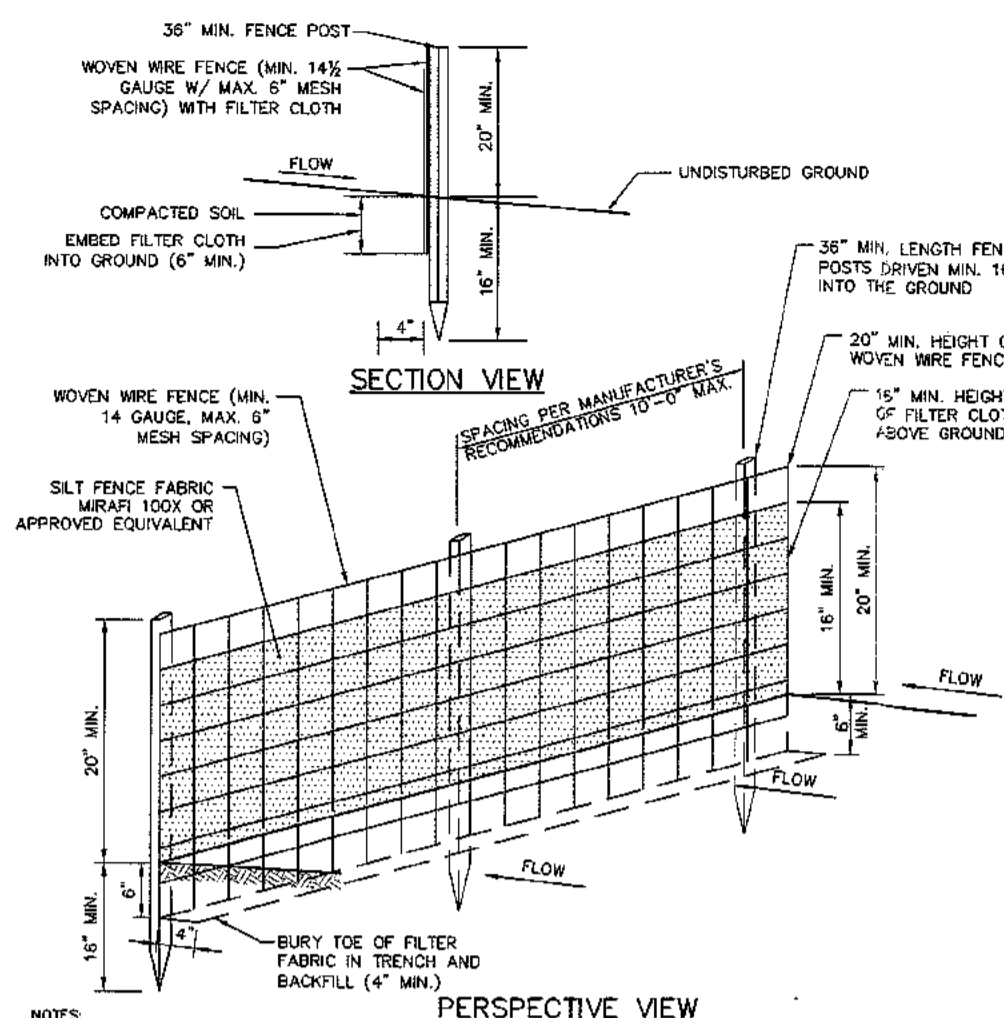
Job No. MSC
Scale AS NOTED
Date 1 OCT. 2023
Drawn By M.M.
Checked By M.M.
Sheet

C202

Tool & Signature

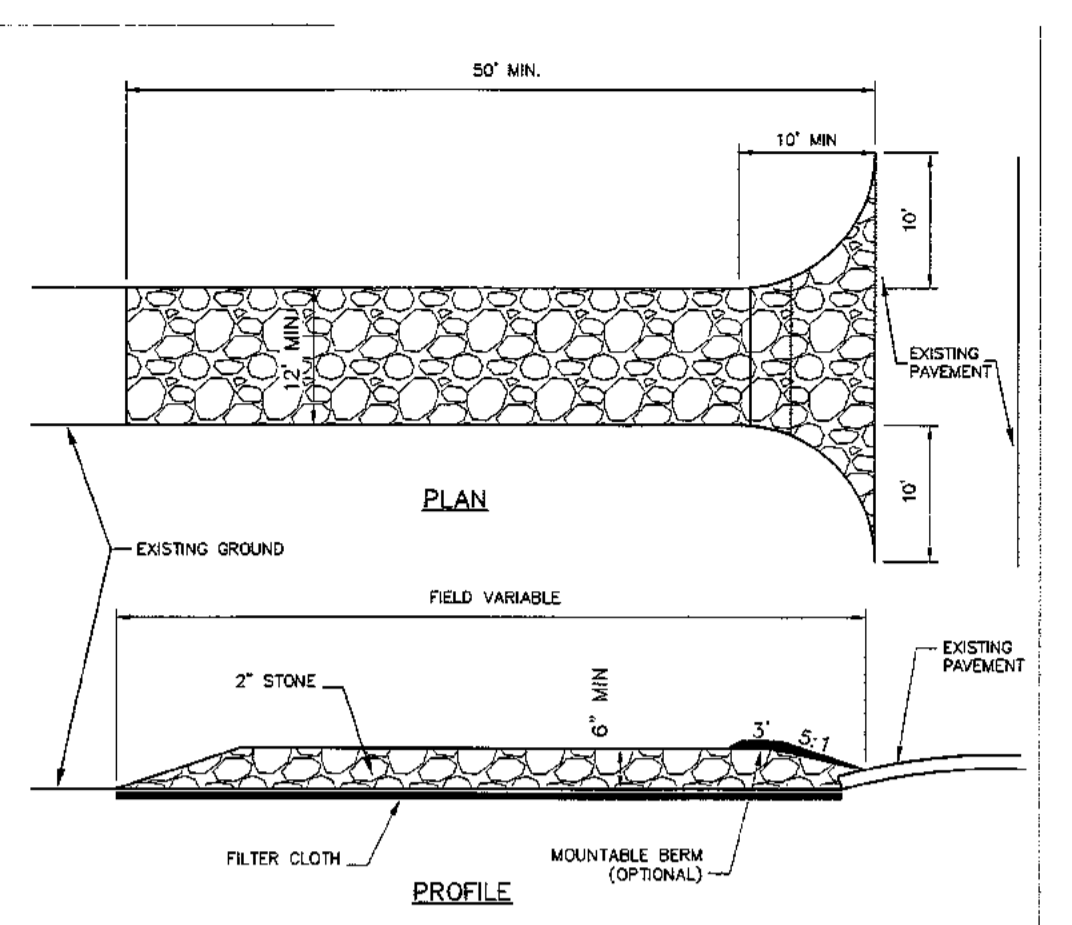
CONSTRUCTION DETAILS

STATE OF NEW YORK
COUNTY OF WESTCHESTER
MICHAEL MASTROGIACOMO, P.E., S.E.
NEW YORK STATE REG. NO. 10022
CONNECTION STATE # E & L.C. NO. 2016



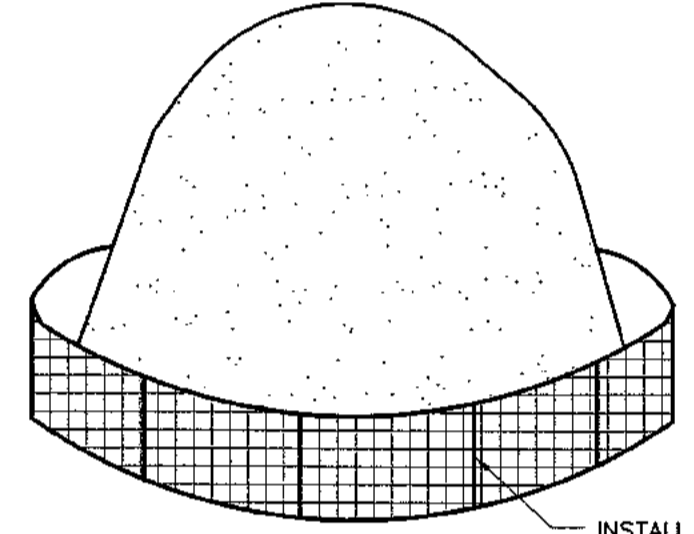
- NOTES:**
1. WHEN WIRE FENCE SHALL BE FACTURED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL, EITHER T OR U TYPE OR HARDWOOD.
 2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION FENCE SHALL BE WOVEN WIRE 4" MAXIMUM MESH SPACING.
 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER #1, MESH #100, STABILINA TH40N, OR APPROVED EQUIVALENT.
 4. PREFABRICATED UNITS SHALL BE GEOTEX, ENVIRONMENTAL, OR APPROVED EQUIVALENT.
 5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED AND REPLACED WHEN "DULDEST" DEVELOP IN THE SILT FENCE.
 6. INSTALL FABRIC ON UPRILL SIDE OF SUPPORT POSTS.
 7. SILT FENCE SHALL NOT BE USED IN DRAINAGE WAYS.

SILT FENCE



- CONSTRUCTION SPECIFICATIONS:**
1. USE 2" DIAMETER STONE OR RECLAIMED/RECYCLED CONCRETE EQUIVALENT.
 2. RECOMMENDED LENGTH GREATER THAN 50 FEET WHERE PRACTICAL.
 3. THICKNESS NOT LESS THAN 6 INCHES.
 4. 10 FOOT MINIMUM WIDTH, BUT NOT LESS THAN FULL WIDTH AT POINTS WHERE INCREASE AND DECREASE OCCUR.
 5. FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- CONSTRUCTION SPECIFICATIONS:**
6. ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE FIRED ACROSS THE ENTRANCE IF PRACTICAL. A MOUNTABLE BERM WILL BE PERMITTED.
 7. ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND BEANS AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLS, CROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
 8. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED BY THE CONTRACTOR.
 9. REMOVE STABILIZED CONSTRUCTION ENTRANCE PRIOR TO PLACEMENT OF BITUMINOUS CONCRETE PAVEMENT.

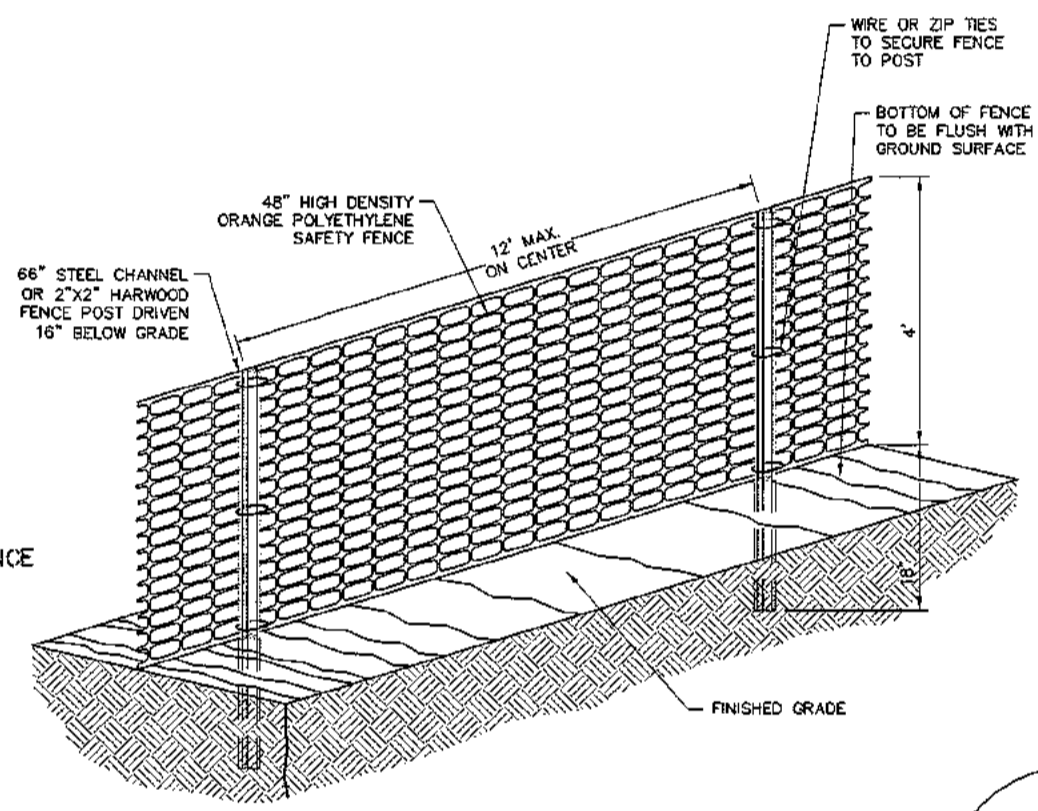
ANTI-TRACKING PAD



INSTALL SILT FENCE AS SHOWN ON THE VILLAGE STANDARD SILT FENCE CONSTRUCTION DETAIL.

- NOTES:**
1. ALL STOCKPILES SHALL BE SURROUNDED BY SILT FENCING.
 2. STOCKPILES SHALL HAVE A MAXIMUM 2:1 (H:V) SIDE SLOPE.
 3. REPAIR/OR REPLACE ANY SILT FENCING DAMAGED DUE TO CONSTRUCTION ACTIVITIES OR STOCKPILE MITIGATION.
 4. STOCKPILE SHALL BE LOCATED IN AREAS AS SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER.

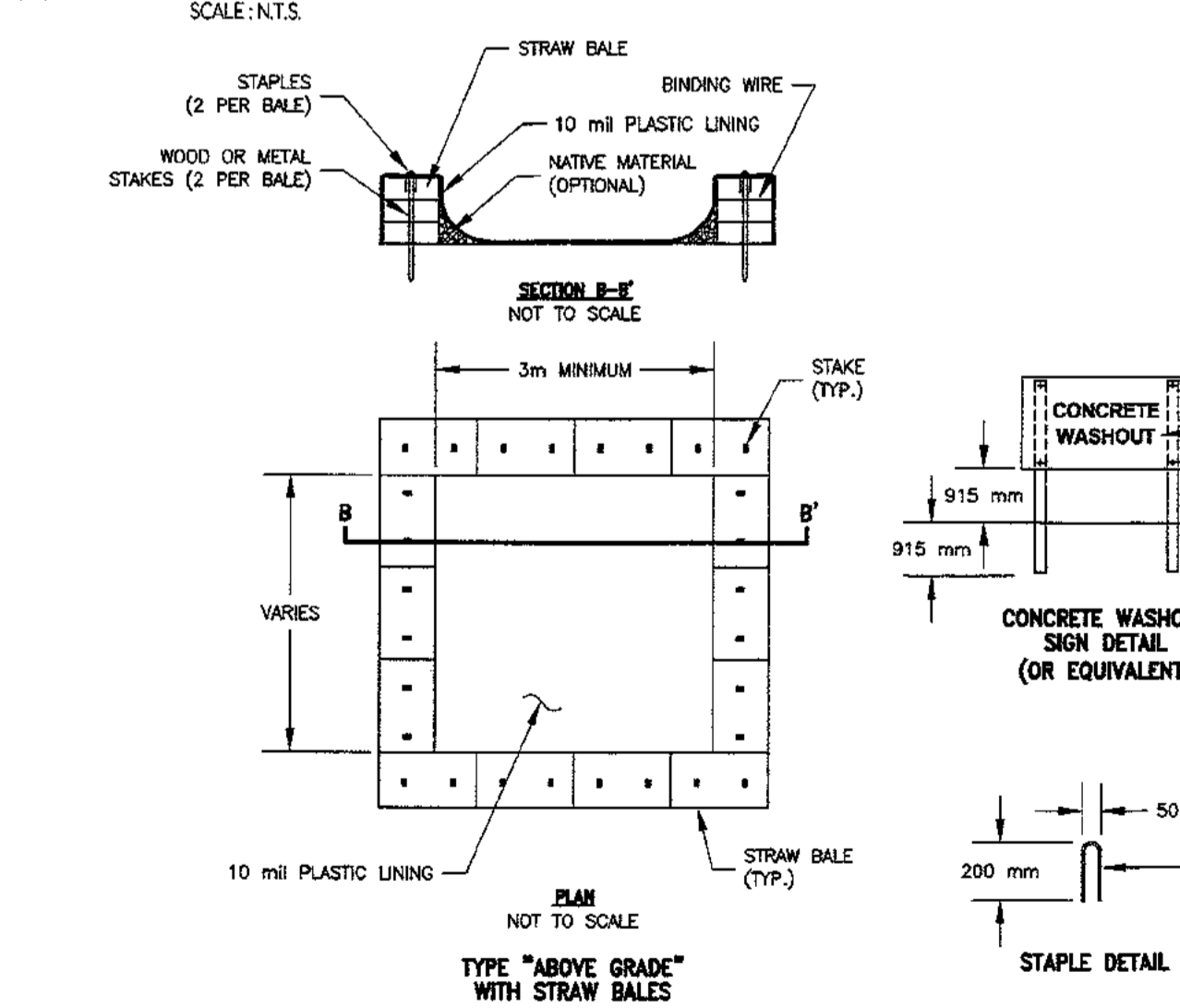
SOIL STOCKPILE



CONSTRUCTION FENCE

- NOTES:**
1. MAINTAIN TENSION ACROSS FULL HEIGHT AND LENGTH OF FENCE.
 2. PROVIDE PERIODIC INSPECTION AND MAINTENANCE OF FENCE.
 3. FENCE SHALL BE HIGH DENSITY ORANGE POLYETHYLENE SAFETY FENCE AS MANUFACTURED BY EROSION CONTROL PRODUCTS OR APPROVED EQUAL.

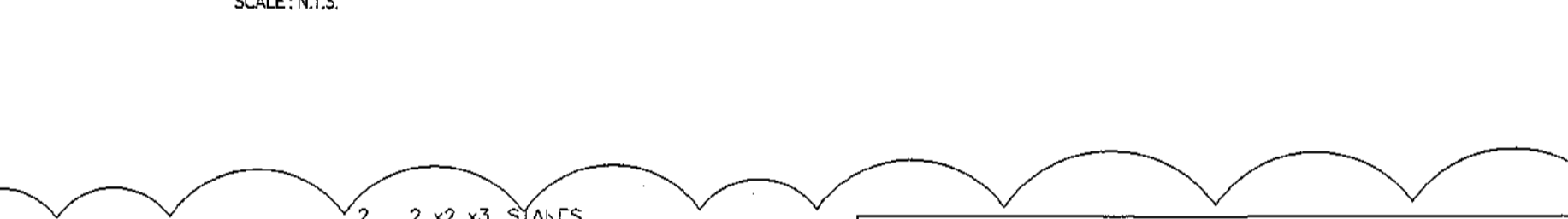
A EROSION CONTROL DETAILS



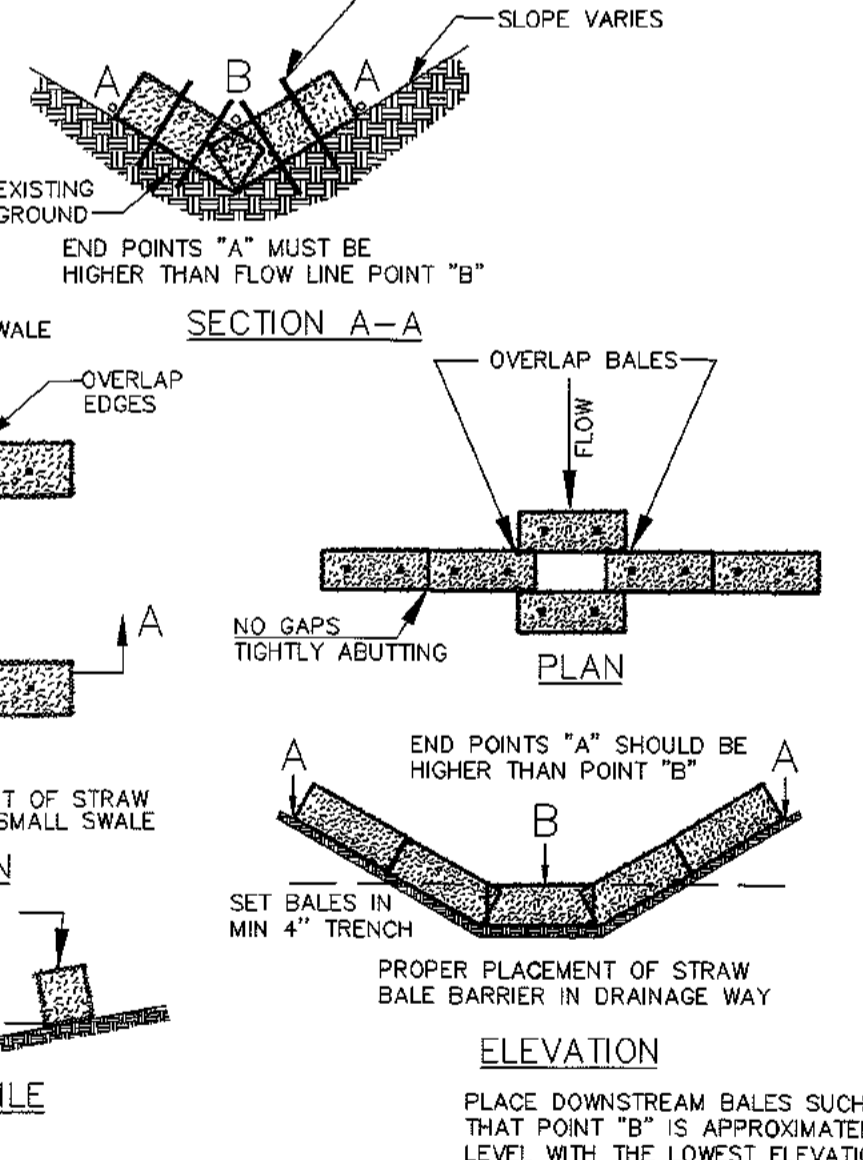
- NOTES:**
1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
 2. THE CONCRETE WASHOUT SIGN (SEE FIG. 4-15) SHALL BE INSTALLED WITHIN 10' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

B CONCRETE WASH-OUT DETAIL

C PRECAST CONC. 12"Ø SEEPAGE PIT DETAIL

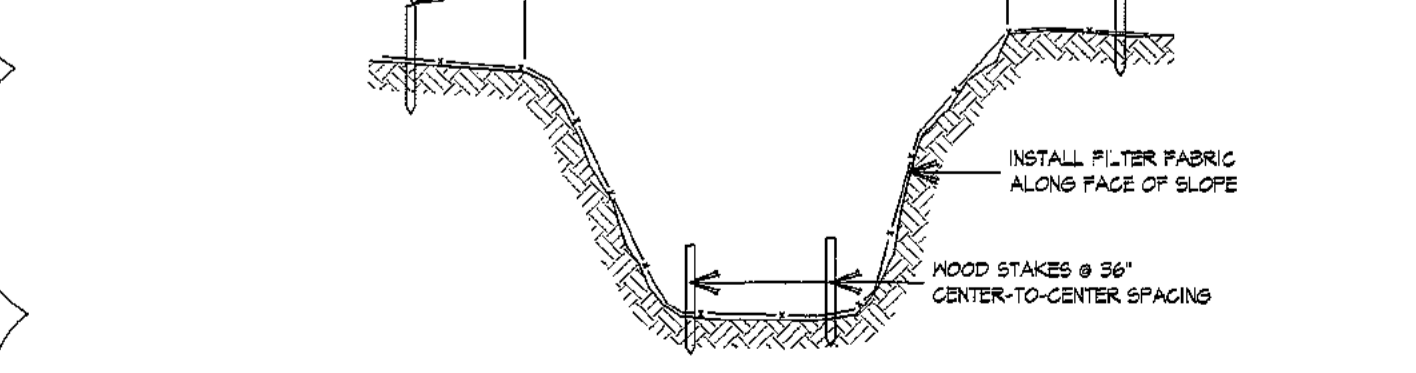


- NOTES:**
1. CONCRETE TO TEST 4000 PSI AT 28 DAYS. WELDED WIRE MESH TO COMPLY WITH ASTM A186.
 2. NOTES A-1, A-2, A-3, A-4, A-5, A-6, & A-7 UNDER "NOTES PERTAINING TO DRAIN INLETS" & "NOTES TO DRY WELLS" SHALL APPLY.
 3. MANUFACTURER SHALL PROVIDE NECESSARY OPENINGS IN PROPER LOCATIONS FOR INLET & OUTLET PIPES.

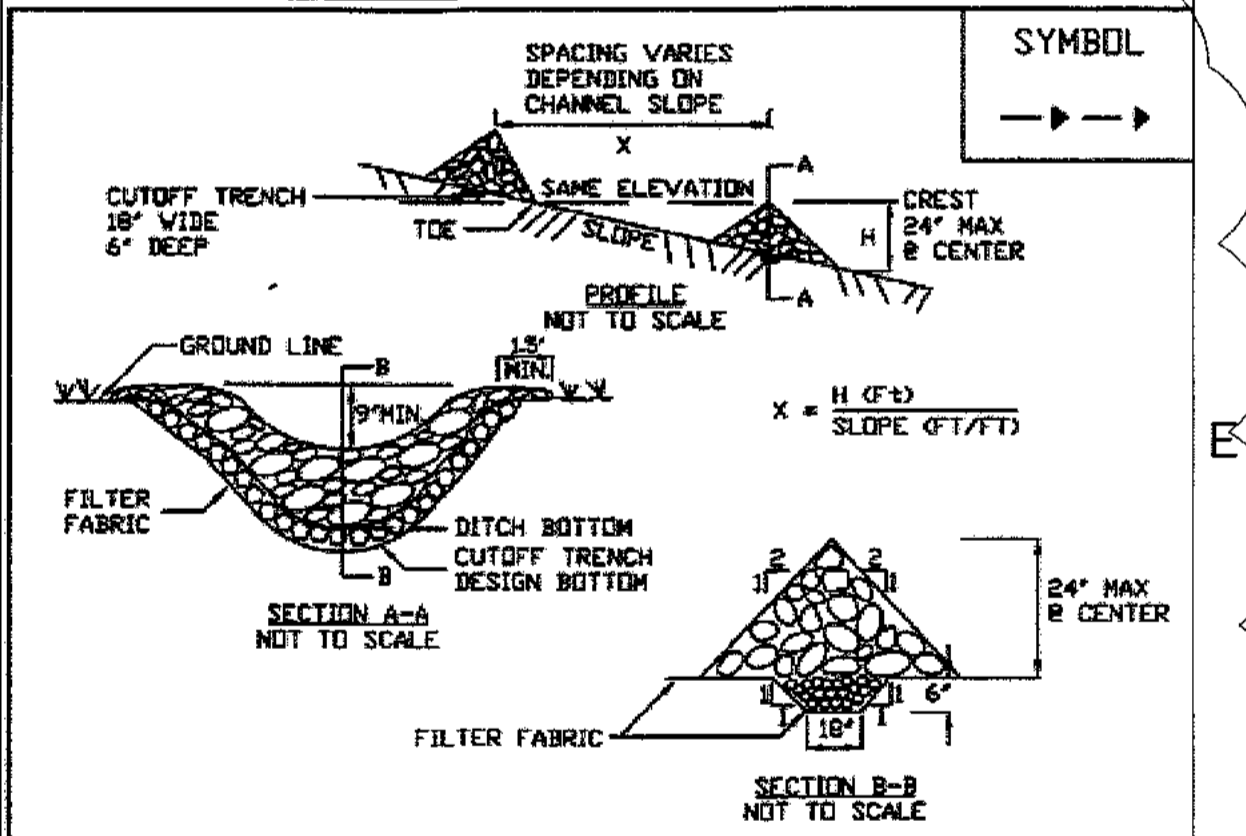


F HAY BALE CHECK DAM

- CONSTRUCTION SPECIFICATIONS:**
1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
 2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TIDE OF THE UPSTREAM DAM.
 3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
 4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
 5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE. MAXIMUM DRAINAGE AREA 2 ACRES.



G TRENCH SIDE SLOPE STABILIZATION



H STONE CHECK DAM

- CONSTRUCTION SPECIFICATIONS:**
1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
 2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TIDE OF THE UPSTREAM DAM.
 3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
 4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
 5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE. MAXIMUM DRAINAGE AREA 2 ACRES.

D DRILLED WELL DETAIL



- NOTES:**
1. BOTTOM OF THE J-BOX MUST BE LEVEL & SUPPORTED SOLIDLY TO BELOW FROST LINE & THE FOOTING TO BE EXTENDED TO 36" BELOW GRADE.



- NOTES:**
1. BOTTOM OF THE J-BOX MUST BE LEVEL & SUPPORTED SOLIDLY TO BELOW FROST LINE & THE FOOTING TO BE EXTENDED TO 36" BELOW GRADE.

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 www.msoengpc.com

Revisions

3/24/24	REVISE PER COMMENTS 1/8/24

Client Name and Address

ARMONK ESTATES LLC
 21 BRASSIE ROAD
 EASTCHESTER, NY 10709

Project Information

PROPOSED 1 FAMILY RESIDENCE

Situated At
 4 ARMONK HEIGHTS RD
 TOWN OF NORTH CASTLE
 WESTCHESTER CO.
 NEW YORK

TAX ASSESSMENT INFO:

SEC:	10101
BLOCK:	1
TAX LOT:	34
Job No.	MISC
Scale	AS NOTED
Date	1 OCT 2023
Drawn By	M.M.
Checked By	M.M.
Sheet	

C203

Seal & Signature

MICHAEL MASTROGIACOMO, P.E., I.S.
 NEW YORK STATE PROFESSIONAL ENGINEER
 CONSTRUCTION SPECIALIST LICENSE NO. 00516

NORTH CASTLE PLANNING BOARD APPROVAL:

APPROVED BY THE TOWN OF NORTH CASTLE PLANNING BOARD AS PER RESOLUTION No. _____ DATED: _____

PLANNING BOARD CHAIRMAN _____ DATE _____