

McGOEY, HAUSER and EDSALL
CONSULTING ENGINEERS D.P.C.

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Principal Emeritus:
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WILLIAM J. HAUSER, P.E. (NY, NJ & PA)

**TOWN OF NEWBURGH
PLANNING BOARD
TECHNICAL REVIEW COMMENTS**

PROJECT: ROCK CUT ESTATES
PROJECT NO.: 19-19
PROJECT LOCATION: SECTION 47, BLOCK 2, LOT 11, 12, 13.2, 14.2, 15.2
REVIEW DATE: 1 NOVEMBER 2019
MEETING DATE: 7 NOVEMBER 2019
PROJECT REPRESENTATIVE: ARDEN CONSULTING ENGINEERS

1. Status of the approval for the common driveway serving 3 lots should be received. Approval from the Town Board is required for such arrangement.
2. OC DPW approval for the driveway locations is required. Status of the OC DPW review should be identified.
3. Grading Plan depicts grading encroaching onto Tax Lot 28. Grading should be modified so that is not to encroach on adjoining property.
4. The removal of the existing structures located on proposed lot 2 will require a demolition permit from the Town of Newburgh. A note stating that permit is required should be added to the plans.
5. County Planning referral has been received with a local determination. County Planning comments recommended a limitation on tree removal to the greatest extend practicable and preservation of stonewalls on the site in order to maintain as much of stonewalls as possible.
6. This office is awaiting response from the NYSDEC regarding any potential impacts to Bald Eagles. The Applicant has provided copies of emails to the NYSDEC dated 9 October 2019.
7. The Applicants have revised the common driveway to provide swales along the driveway rather than the close pipe drainage system previously identified.

Respectfully submitted,

***McGoey, Hauser and Edsall
Consulting Engineers, D.P.C.***

Patrick J. Hines
Principal

PJH/jlc

Declaration of Common Driveway Easement
And
Maintenance Agreement

This declaration, made the _____ day of _____, 20__, made by Alexandra Development Inc, a New York corporation, with a principal place of business of 2100 Route 94, Salisbury Mills, New York 12577 (hereinafter referred to as "Declarant").

Witnesseth

Whereas, the Declarant is the owner in fee of certain real property located in the Town of Newburgh, Orange County, New York, containing _____ acres more or less, and described as set forth in schedule A, annexed hereto (the "premises"); and

Whereas, the Planning Board of the Town of Newburgh has granted final subdivision approval to the Declarant; and

Whereas, on _____, 20__, the Declarant filed a map with the County of Orange, map no. _____, entitled " _____", which map depicts a lot subdivision of the Premises; and

Whereas, the said Declarant is about to develop said real estate for residential occupancy in single family dwellings, each located on a separate plot; and

Whereas, it is the intention of the Declarant that access, ingress, and egress, between the lots and the nearest public highway shall be assured to the Purchasers of the Lots (the "owners"), their heirs and assigns, over a common shared driveway laid out upon the Subdivision (the "Common Driveway"); and

Whereas, the Declarant has laid out and developed ten (10) foot wide strips to be owned in fee to each lot owner, with each lot owner owning a ten foot wide strip of the Common Driveway, which are bound and described in Schedule "B"; and

Whereas, this instrument is to be construed as a covenant running with the land imposing affirmative obligations upon the Owners;

Now, therefore, is is declared as follows:

1. Owners, their heirs and assigns, shall each be subject to the rights, privileges, and obligations, herein set forth and, by taking title to a lot within the subdivision described in Schedule "A", agree to be bound hereby.

2. Owners for themselves, their families, their invitees, and their heirs and assigns, are hereby granted, in addition to their ten foot ownership, an easement and right of way in common with Declarant, its heirs, successors, and assigns, easements for ingress and egress, and the installation and maintenance of utilities, including but not limited to water, electric, sewer, gas, drainage, cable television, phone, whether underground or overhead, and the right to grant easements to public utility companies for such purpose and right, power, and authority to improve for purposes consistent with access and installation and maintenance of such utilities, over and through the Common Driveway as shown on the subdivision.
3. Owners agree that they will contribute to the repair and maintenance of the Common Driveway in accordance with the procedures as hereinafter set forth.
 - A. The Owners shall meet at least annually to determine the maintenance and repairs that are to be performed upon the Common Driveway for the ensuing twelve (12) months. Owners shall also agree upon a method of determining when and how contractors shall be hired to perform said maintenance.
 - B. Decisions concerning improvements and/or maintenance of the Common Driveway shall be made by a majority of Owners present. Each Owner shall have one vote for each lot owned by such Owner within the subdivision.
 - C. The first meeting of the Owners may be called by the Owner and shall be held within the Town of Newburgh, upon ten (10) days notice by certified mail, return receipt requested, to all other Owners. Subsequent meetings shall be held as may be agreed upon. In addition to the first meeting, any Owner shall have the right to call for a special meeting with the same notice requirements.
 - D. The Owners present at the first meeting and annually thereafter shall elect a manager (hereinafter "Manager") who shall chair the meetings and oversee the programs adopted by the Owners, including the preparation of budgets, arrangements for maintenance, snow removal and the like, and collection of assessments. The Manager need not be an Owner.
4. The determination by the Manager and the mailing by ordinary mail of a notice of the assessment for repair and maintenance of the Common Driveway against each Owner shall be conclusive evidence that the obligation is due and collection thereof may be asserted by any Owner acting on behalf of all Owners.
5. Invoices based upon a budgeted allowance shall be rendered annually by the Manager and shall be due within thirty (30) days of receipt. Late payments shall bear interest at the rate of eight (8%) percent per annum.
6. Each Owner, by accepting a deed to or owning land within the subdivision agrees:
 - A. To be bound by the act of the majority of the Owners.
 - B. To be responsible for the cost of the repair of damage to the Common Driveway caused by them, their agents, servants, and employees.
 - C. The failure of any Owner to pay his or her "proportionate share" shall subject Owner's real property to the lien of the contractor performing the services for the Owners, as if the Owner had executed the contract for the performance of work or services. For the purposes of this Declaration, the term "Proportionate share" shall mean the number of lots owned by the Owner divided by the total number of lots within the subdivision. For the purposes of this Declaration, each Owner hereby authorizes, and by accepting a deed to any lot, accepts the condition that a majority vote of the

Owners shall be sufficient to authorize the performance of work and that the acts of the Manager in carrying out the directive of the Owners shall be done by the Manager as an agent for the Owners and the Owners consent to Manager's actions and agree to be bound by them.

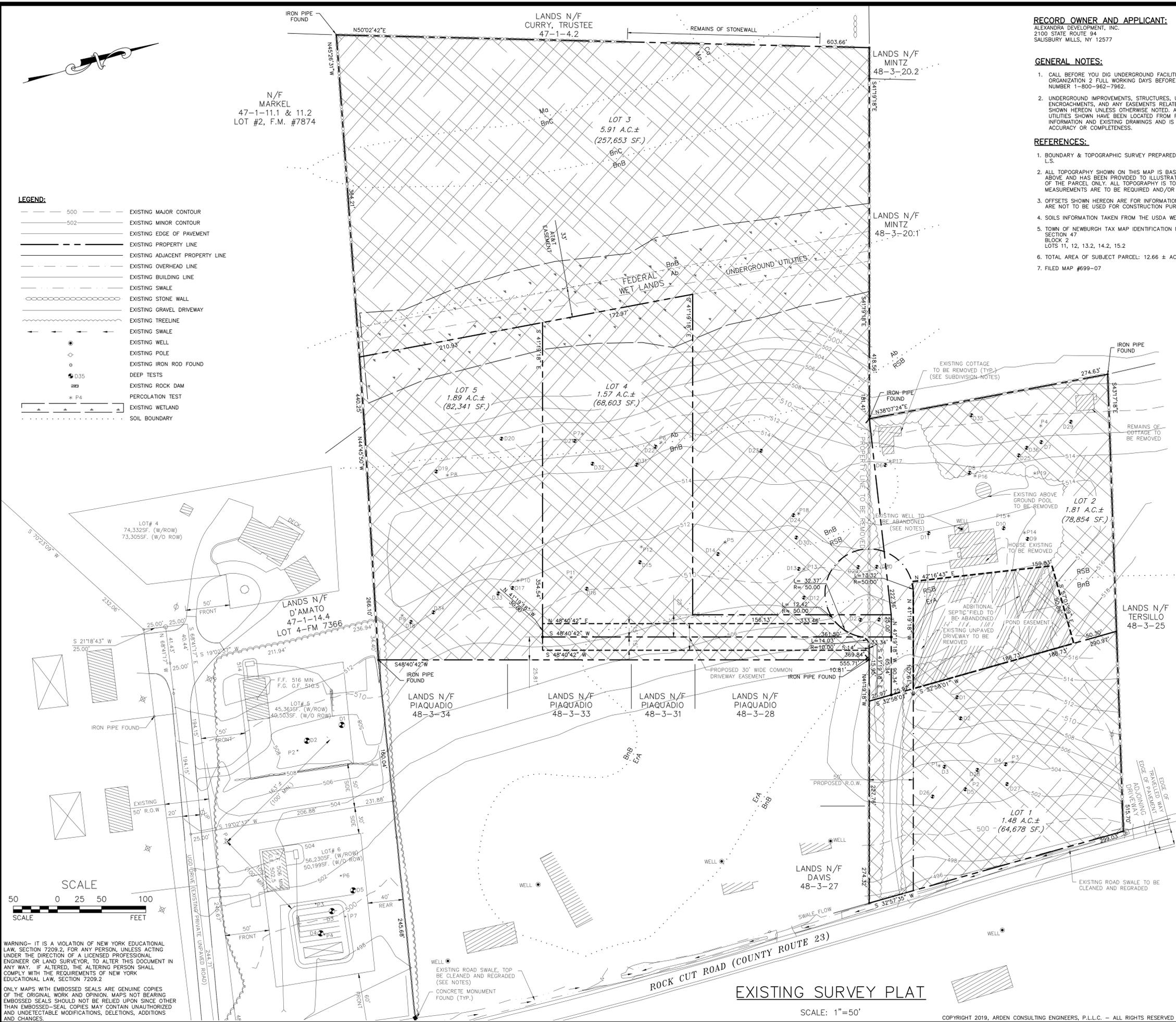
D. Unless otherwise agreed by Owners, it is hereby declared that in the event of the accumulation of three inches or more of snow, the Manager is authorized to engage a contractor to remove the snow from the Common Driveway without further authorization from the Owners and, if needed, to have the Common Driveway sanded or otherwise treated.

E. Potholes within the Common Driveway exceeding three inches in depth and restoration of the traveled way within the Common Driveway by grading, when differences in elevation or portions thereof are more than six inches, shall be deemed authorized repairs.

1. The use of the term "Owner" shall include the Declarant or its successors.
2. This Declaration shall be controlled by the laws of the State of New York.
3. This Declaration may not be changed orally but only by a revised Declaration in writing, signed and acknowledged by all Owners within the Subdivision.
4. This Declaration shall be binding upon and inure to the benefit of the heirs, successors, and assigns of the Declarant.

In witness whereof, the Declarant has hereunto set his hand and seal the day and year first above written.

Matthew J. Scopteuolo
President, Alexandra Development Inc.

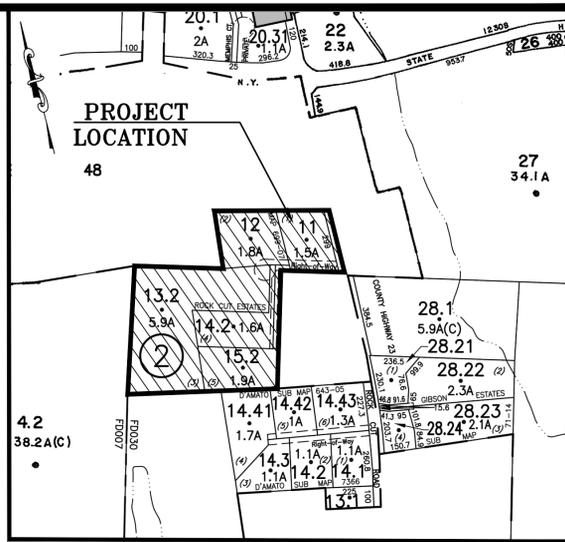


- LEGEND:**
- 500 --- EXISTING MAJOR CONTOUR
 - 502 --- EXISTING MINOR CONTOUR
 - EXISTING EDGE OF PAVEMENT
 - EXISTING PROPERTY LINE
 - EXISTING ADJACENT PROPERTY LINE
 - EXISTING OVERHEAD LINE
 - EXISTING BUILDING LINE
 - EXISTING SWALE
 - EXISTING STONE WALL
 - EXISTING GRAVEL DRIVEWAY
 - EXISTING TREELINE
 - EXISTING SWALE
 - EXISTING WELL
 - EXISTING POLE
 - EXISTING IRON ROD FOUND
 - D35 DEEP TESTS
 - RD EXISTING ROCK DAM
 - * P4 PERCOLATION TEST
 - EXISTING WETLAND
 - SOIL BOUNDARY

RECORD OWNER AND APPLICANT:
 ALEXANDRA DEVELOPMENT, INC.
 2100 STATE ROUTE 94
 SALISBURY MILLS, NY 12577

- GENERAL NOTES:**
- CALL BEFORE YOU DIG UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION 2 FULL WORKING DAYS BEFORE YOU DIG. TELEPHONE NUMBER 1-800-962-7962.
 - UNDERGROUND IMPROVEMENTS, STRUCTURES, UTILITIES OR ENCROACHMENTS, AND ANY EASEMENTS RELATED THERETO, ARE NOT SHOWN HEREON UNLESS OTHERWISE NOTED. ANY UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS AND IS NOT CERTIFIED TO ACCURACY OR COMPLETENESS.

- REFERENCES:**
- BOUNDARY & TOPOGRAPHIC SURVEY PREPARED BY ANTHONY VALDINA, L.S.
 - ALL TOPOGRAPHY SHOWN ON THIS MAP IS BASED ON THE REFERENCES ABOVE AND HAS BEEN PROVIDED TO ILLUSTRATE THE GENERAL SLOPE OF THE PARCEL ONLY. ALL TOPOGRAPHY IS TO BE VERIFIED IF EXACT MEASUREMENTS ARE TO BE REQUIRED AND/OR UTILIZED.
 - OFFSETS SHOWN HEREON ARE FOR INFORMATIONAL PURPOSES ONLY AND ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.
 - SOILS INFORMATION TAKEN FROM THE USDA WEB SOIL SURVEY.
 - TOWN OF NEWBURGH TAX MAP IDENTIFICATION NUMBERS: SECTION 47, BLOCK 2, LOTS 11, 12, 13.2, 14.2, 15.2
 - TOTAL AREA OF SUBJECT PARCEL: 12.66 ± ACRES
 - FILED MAP #699-07



LOCATION MAP
 SCALE: 1"=400'
 SOURCE: OCWAGIS TAX MAPS

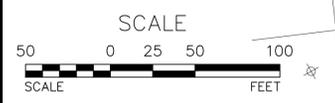
COUNTY NOTE:
 NO SITE PREPARATION OR CONSTRUCTION, INCLUDING UTILITY CONNECTIONS, SHALL COMMENCE UNTIL A VALID HIGHWAY WORK PERMIT HAS BEEN SECURED FROM THE ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS UNDER SECTION 1326 OF THE HIGHWAY LAW.

RECORD OWNER'S CONSENT NOTE:
 THE UNDERSIGNED OWNERS OF THE PROPERTY, HEREON STATE THAT THEY ARE FAMILIAR WITH THIS PLAN, ITS CONTENTS AND ITS LEGENDS AND HEREBY CONSENT TO ALL SAID TERMS AND CONDITIONS AS STATED HEREON AND TO THE FILING OF THIS PLAN IN THE OFFICE OF THE CLERK OF THE COUNTY OF ORANGE, IF SO REQUIRED.

SIGNATURE _____ ALEXANDRA DEVELOPMENT, INC.

DRAWING LIST

SHEET NO	SHEET TITLE	ORIGINAL DATE/LAST REVISED DATE
01 OF 10	EXISTING SURVEY PLAT	08-19-2019/10-2-19
02 OF 10	PROPOSED SURVEY PLAT	08-19-2019/10-2-19
03 OF 10	GRADING & DRAINAGE PLAN	08-19-2019/10-2-19
04 OF 10	SOIL TESTING AND SEPTIC DESIGNS	08-19-2019/10-2-19
05 OF 10	SEPTIC DETAILS	08-19-2019/10-2-19
06 OF 10	MISC. DETAILS	08-19-2019/10-2-19
07 OF 10	EROSION AND SEDIMENTATION CONTROL PLAN AND NOTES	08-19-2019/10-2-19
08 OF 10	EROSION AND SEDIMENTATION CONTROL DETAILS	08-19-2019/10-2-19
09 OF 10	DRIVEWAY PROFILES	08-19-2019/10-2-19
10 OF 10	TURNING DIAGRAM	08-19-2019/10-2-19



WARNING- IT IS A VIOLATION OF NEW YORK EDUCATIONAL LAW, SECTION 7209.2, FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER THIS DOCUMENT IN ANY WAY, IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATIONAL LAW, SECTION 7209.2

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PB# 2019-19

REVISION	BY	DATE	DESCRIPTION
1	MM	10/2/19	9/19/19 PB MTG. & 9/19/19 MHE COMMENTS

ARDEN CONSULTING ENGINEERS, PLLC
 P.O. BOX 340 MONROE, N.Y.
 TEL: (845) 782-8114
 WWW.ARDENCONSULTING.NET

AMENDED SUBDIVISION PLAN FOR
ROCK CUT ESTATES
 ROCK CUT ROAD
 TOWN OF NEWBURCH, ORANGE COUNTY, N.Y.

EXISTING SURVEY PLAT

SCALE: 1"=50'

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MICHAEL A. MORGANTE, P.E.
 LIC. NO. 78577

JOB#: 19-023
 SCALE: AS NOTED
 DATE: 08-19-19
 DRAWN: MM
 CHECKED: MM
 SHEET NO: 01 OF 10

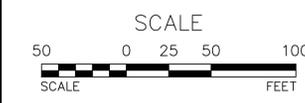
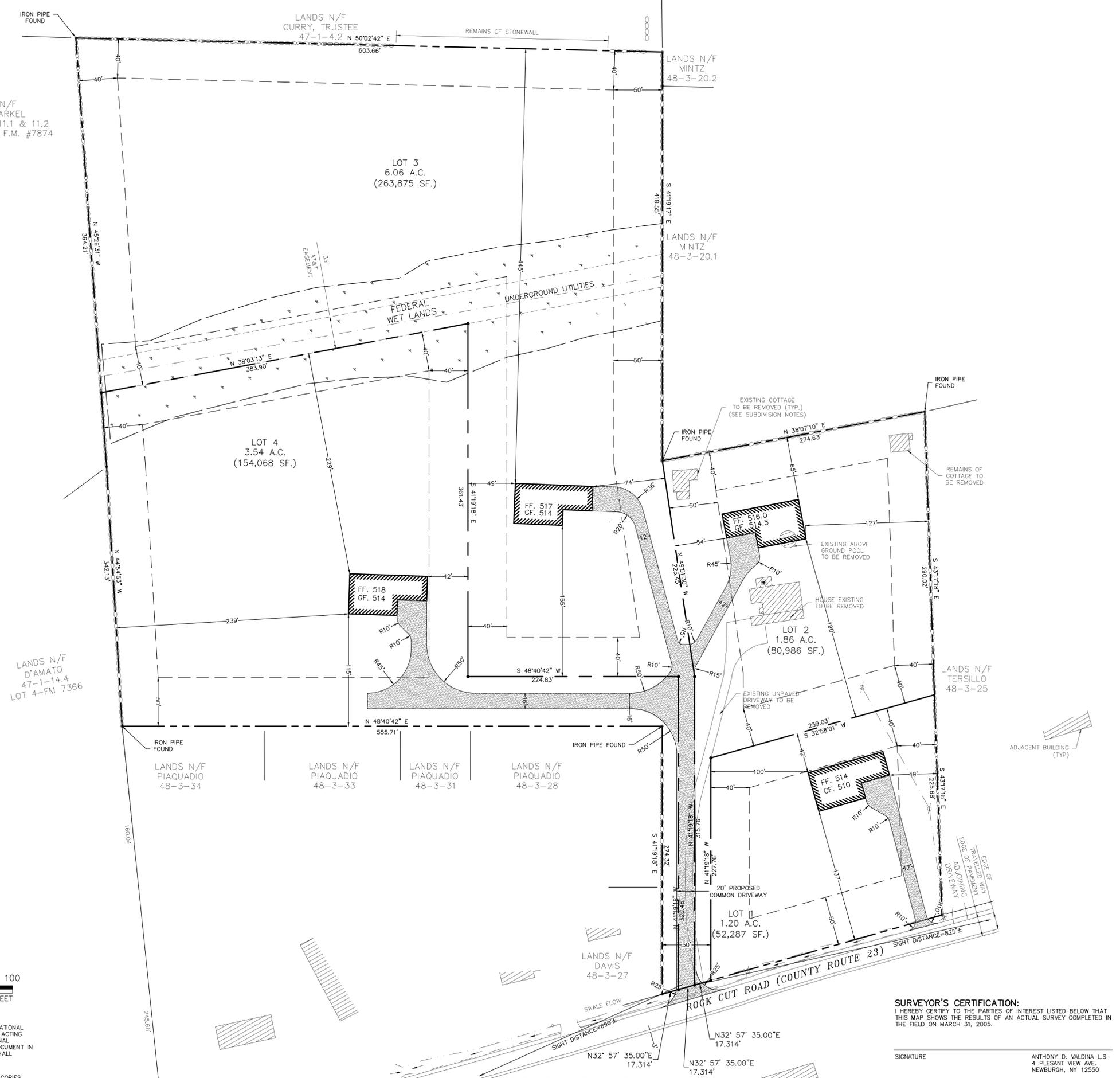
LEGEND:

---	EXISTING PROPERTY LINE
---	EXISTING ADJACENT PROPERTY LINE
---	EXISTING BUILDING LINE
---	EXISTING SWALE
○	EXISTING WELL
○	EXISTING POLE
○	EXISTING IRON ROD FOUND
---	EXISTING SWALE
○	EXISTING STONE WALL
---	PROPOSED PROPERTY LINE
---	PROPOSED BUILDING
---	ZONING SET BACK LINE
---	PROPOSED DRIVEWAY HATCH
---	PROPOSED DRIVEWAY

ZONING SCHEDULE

ZONE: R-1	REQUIRED	LOT #1	LOT #2	LOT #3	LOT #4
MINIMUM LOT AREA	40,000SF.	52,287 SF.	80,986 SF.	263,875 SF.	154,068 SF.
ACRES (W/ROW)	150'	247'±	307'±	643'±	359'±
LOT WIDTH	150'	226'±	259'±	592'±	372'±
LOT DEPTH					
MINIMUM YARDS (FEET)					
FRONT	50'	137'	54'	74'	115'
REAR	40'	42'	127'	49'	229'
SIDES					
ONE	30'	49'	65'	155'	42'
BOTH	80'	149'	255'	600'	281'
LOT BUILDING COVERAGE	10%	10% MAX	10% MAX	10% MAX	10% MAX
LOT SURFACE COVERAGE	20%	20% MAX	20% MAX	20% MAX	20% MAX

*REQUIRED FRONT YARD FOR COUNTY AND STATE ROADWAYS



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PROPOSED SURVEY PLAT

SCALE: 1"=50'

SURVEYOR'S CERTIFICATION:
I HEREBY CERTIFY TO THE PARTIES OF INTEREST LISTED BELOW THAT THIS MAP SHOWS THE RESULTS OF AN ACTUAL SURVEY COMPLETED IN THE FIELD ON MARCH 31, 2019.

SIGNATURE _____ ANTHONY D. VALDINA L.S.
4 PLEASANT VIEW AVE.
NEWBURGH, NY 12550

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PB# 2019-19

REVISION	BY	DATE	DESCRIPTION
1	MM	10/2/19	9/19/19 PB MTG. & 9/19/19 MHE COMMENTS

THIS SHEET IS NOT VALID WITHOUT ALL OF THE SHEETS THAT COMPRISE THE SET

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AMENDED SUBDIVISION PLAN FOR
ROCK CUT ESTATES
ROCK CUT ROAD
TOWN OF NEWBURGH, ORANGE COUNTY, N.Y.

PROPOSED SURVEY PLAT

JOB#: 19-023
SCALE: AS NOTED
DATE: 08-19-19
DRAWN: MM
CHECKED: MM
SHEET NO. 02 of 10

MICHAEL A. MORGANTE, P.E.
LIC. NO. 78577

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N/F
MARKEL
47-1-11.1 & 11.2
LOT #2, F.M. #7874

LANDS N/F
MINTZ
48-3-20.2

LANDS N/F
MINTZ
48-3-20.1

NO WELL WITHIN
100' UPHILL OR 200'
DOWNHILL OF ANY
PROPOSED SEPTIC,
UNLESS NOTED OTHERWISE

NO WELL WITHIN
100' UPHILL OR 200'
DOWNHILL OF ANY
PROPOSED SEPTIC,
UNLESS NOTED OTHERWISE

NO WELL WITHIN
100' UPHILL OR 200'
DOWNHILL OF ANY
PROPOSED SEPTIC,
UNLESS NOTED OTHERWISE

LANDS N/F
D'AMATO
47-1-14.4
LOT 4-FM 7366

LANDS N/F
PIAQUADIO
48-3-34

LANDS N/F
PIAQUADIO
48-3-33

LANDS N/F
PIAQUADIO
48-3-31

LANDS N/F
PIAQUADIO
48-3-28

NO WELL WITHIN
100' UPHILL OR 200'
DOWNHILL OF ANY
PROPOSED SEPTIC,
UNLESS NOTED OTHERWISE

LANDS N/F
TERSILLO
48-3-25

LANDS N/F
DAVIS
48-3-27

NO WELL WITHIN
100' UPHILL OR 200'
DOWNHILL OF ANY
PROPOSED SEPTIC,
UNLESS NOTED OTHERWISE

TOWN CERTIFICATION

I HEREBY CERTIFY TO THE TOWN OF NEWBURGH THAT THE SEWAGE DISPOSAL SYSTEM DEPICTED ON THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE NEW YORK STATE PUBLIC HEALTH LAW AND ALL REGULATIONS PROMULGATED THEREUNDER.

BUILDING PERMIT NOTE

NO BUILDING PERMIT SHALL BE ISSUED UNTIL THE COMMON DRIVEWAY AND RELATED IMPROVEMENTS ARE CONSTRUCTED OR A PERFORMANCE SECURITY FOR SUCH WORK IS PROVIDED AND ACCEPTED BY THE TOWN OF NEWBURGH.

WETLAND REFERENCE

WETLANDS WERE FLAGGED BY MIKE NOWICKI, WETLAND BIOLOGIST, IN THE MONTH OF JUNE 2005. SURVEYED BY TACONIC DESIGN 06/03/05

TOPOGRAPHY REFERENCE

AS PER AN EXISTING SITE PLAN, NAMED "ROCK CUT ESTATES" DESIGNED BY MICHAEL E. MIELE, P.E. DATED 11/03/03. FIELD CHECKED BY TACONIC DESIGN 06/07/05.

WELL ABANDONMENT NOTES

- BEFORE SEALING THE WELL, IT SHALL BE MEASURED FOR DEPTH AND CHECKED FOR OBSTRUCTIONS.
- IF NECESSARY TO ENSURE PROPER SEALING THE WELL CASING IS TO BE REMOVED.
- IF CASING CANNOT BE REMOVED IT MUST BE PERFORATED TO ENSURE THE PROPER SEALING.
- CEMENT IS TO BE USED AS THE PRIMARY SEALING MATERIAL. IT SHALL BE PLACED FROM THE BOTTOM UPWARD, SUCH THAT SEGREGATION OF MATERIALS IS AVOIDED.
- IN ABANDONING THE WELL, RECORDS OF THE PROCEDURE MUST BE KEPT THAT INCLUDE THE DEPTH OF EACH LAYER PLACED AND TOTAL QUANTITY OF SEALING MATERIALS THAT ARE USED.
- ABANDONMENT OF WELL IS TO BE WITNESSED AND CERTIFIED BY A NYS LICENSED PROFESSIONAL ENGINEER.

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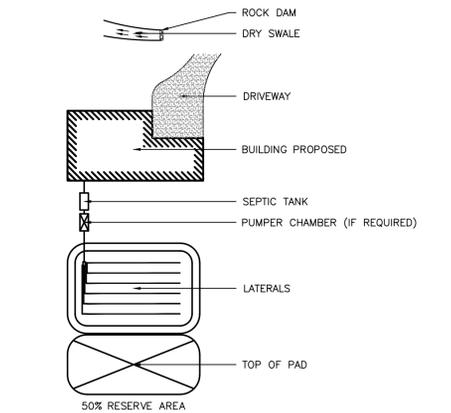
PAVEMENT NOTE

- THE FIRST 50' OF THE PROPOSED COMMON DRIVEWAY SHALL BE PREPARED IN CONFORMANCE WITH THE "COUNTY DEPARTMENT OF PUBLIC WORKS PAVEMENT SECTION" DETAIL ON SHEET 6 OF 10.
- THE REMAINDER OF THE ROAD SHALL BE PREPARED IN CONFORMANCE WITH THE "COMMON DRIVEWAY PAVEMENT SECTION" DETAIL ON SHEET 6 OF 10.

PROPOSED DRAINAGE				
	STRUCTURE	RIM	INV (IN)	INV (OUT)
A LINE	CB A-3	506.44	-	506.00
	CB A-2	507.66	505.19	505.19
B LINE	MH B-4	506.25	502.61	502.61
	MH B-3	496.00	495.05	495.05
	CB B-2	495.40	493.25	493.25
	CB B-2-1	495.40	-	493.50

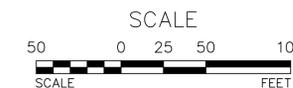
LEGEND:

- 500--- EXISTING MAJOR CONTOUR
- 502--- EXISTING MINOR CONTOUR
- EXISTING EDGE OF PAVEMENT
- EXISTING PROPERTY LINE
- EXISTING ADJACENT PROPERTY LINE
- EXISTING BUILDING LINE
- EXISTING SWALE
- EXISTING STONE WALL
- EXISTING GRAVEL DRIVEWAY
- EXISTING TREELINE
- EXISTING SWALE
- EXISTING WELL
- EXISTING ROCK DAM
- EXISTING POLE
- EXISTING IRON ROD FOUND
- DEEP TESTS
- PERCOLATION TEST
- EXISTING WETLAND
- PROPOSED PROPERTY LINE
- ZONING SET BACK LINE
- PROPOSED BUILDING
- PROPOSED DRIVEWAY
- PROPOSED SEPTIC SYSTEM
- PROPOSED DRAINAGE LINE
- PROPOSED SWALE
- 510 --- PROPOSED MAJOR CONTOUR
- 508 --- PROPOSED MINOR CONTOUR
- PROPOSED RIP RAP
- PROPOSED WELL
- PROPOSED CULVERT
- PROPOSED CATCH BASIN
- PROPOSED MANHOLE



GRADING & DRAINAGE PLAN

SCALE: 1"=50'



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THE PROPOSED SEWAGE DISPOSAL SYSTEM AND WATER SUPPLY SYSTEM SHOWN HAS BEEN DESIGNED IN ACCORDANCE WITH THE STANDARDS AND REQUIREMENTS ESTABLISHED BY THE NEW YORK STATE DEPARTMENT OF HEALTH FOR RESIDENTIAL LOTS. THE DESIGNS ARE BASED UPON ACTUAL SOIL AND SITE CONDITIONS FOUND UPON THE LOTS AT THE DESIGN LOCATION DURING THE TIME OF THE DESIGN.

PB# 2019-19

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AMENDED SUBDIVISION PLAN FOR
ROCK CUT ESTATES
TOWN OF NEWBURGH, ORANGE COUNTY, N.Y.

GRADING & DRAINAGE PLAN

DATE: 08-19-19
DRAWN: MM
CHECKED: MM
SHEET NO. 03 OF 10

STATE OF NEW YORK
MICHAEL A. MORGANTE, P.E.
LIC. NO. 78577

LOT	LOT 1 1.20 A.C.	LOT 2 1.86 A.C.	LOT 3 6.06 A.C.	LOT 4 3.54 A.C.																																																																																																																																																																																																																																																																																																																																																																																																								
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STANDARD NOTES:

STANDARD NOTES: THE DESIGN, CONSTRUCT/ON AND INSTALLATION SHALL BE IN ACCORDANCE WITH THIS PLAN AND GENERALLY ACCEPTED STANDARDS IN EFFECT AT THE TIME OF CONSTRUCTION WHICH INCLUDE:

- "APPENDIX 75-A, WASTE TREATMENT - INDIVIDUAL HOUSEHOLD SYSTEMS, NEW YORK STATE SANITARY CODE."
- "WASTE TREATMENT HANDBOOK, INDIVIDUAL HOUSEHOLD SYSTEMS, NEW YORK STATE DEPARTMENT OF HEALTH"
- "RURAL WATER SUPPLY, NEW YORK STATE DEPARTMENT OF HEALTH"
- "PLANNING THE SUBDIVISION AS PART OF THE TOTAL ENVIRONMENT, NEW YORK STATE DEPARTMENT OF HEALTH."

"THIS PLAN IS APPROVED AS MEETING THE APPROPRIATE AND APPLIED TECHNICAL STANDARDS, GUIDELINES, POLICIES AND PROCEDURES FOR ARRANGEMENT OF SEWAGE DISPOSAL AND TREATMENT WATER SUPPLY FACILITIES.

ALL WELLS AND S.D.S. EXISTING OR APPROVED WITHIN 200' OF THE PROPOSED WELLS AND S.D.S. ARE SHOWN ON THIS PLAN ALONG WITH ANY OTHER ENVIRONMENTAL HAZARDS IN THE AREA THAT MAY AFFECT THE DESIGN AND FUNCTIONAL ABILITY OF THE S.D.S. AND WELL.

IT SHALL BE DEMONSTRATED BY THE CONTRACTOR TO THE CERTIFYING ENGINEER THAT THE SEPTIC TANK IS SEALED, WATER TIGHT AND ACCEPTABLE FOR USE. THIS SHALL REQUIRE, AS A MINIMUM, THE FILLING OF THE TANK WITH WATER TO OBSERVE IF IT IS IN FACT SEALED, WATERTIGHT AND ACCEPTABLE FOR USE.

ALL PROPOSED WELLS AND SERVICE LINES ON THIS PLAN ARE ACCESSIBLE FOR INSTALLATION AND PLACEMENT.

INDIVIDUAL WELLS AND SEWAGE DISPOSAL SYSTEMS SHALL NO LONGER BE CONSTRUCTED OR USED FOR HOUSEHOLD PURPOSES WHEN PUBLIC FACILITIES BECOME AVAILABLE. CONNECTION TO THE PUBLIC SEWER SYSTEM IS REQUIRED WITHIN 1 YEAR OF AVAILABILITY.

A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER SHALL INSPECT THE SANITARY FACILITIES (WATER SUPPLY AND SEWAGE DISPOSAL FACILITY) AT THE TIME OF CONSTRUCTION. PRIOR TO OCCUPANCY OF THE HOUSE, THE ENGINEER SHALL CERTIFY TO THE TOWN OF NEWBURGH AND THE LOCAL CODE ENFORCEMENT OFFICER THAT THE FACILITIES ARE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND THAT ANY SEPTIC TANK JOINTS ARE SEALED AND TESTED FOR WATER TIGHTNESS.

SEPTIC SYSTEM GENERAL NOTES:

- ALL PORTIONS OF THE SEPTIC FIELD WILL BE A MINIMUM DISTANCE OF 200 FEET UP SLOPE AND 100 FEET DOWN SLOPE FROM ANY WELL.
- SEPTIC TANK TO BE LOCATED A MINIMUM DISTANCE OF 10 FEET FROM ANY BUILDING OR PROPERTY LINE.
- CELLAR DRAINS, ROOF DRAINS OR FOOTING DRAINS SHALL NOT BE DISCHARGED IN THE VICINITY OF ABSORPTION FIELD.
- SWIMMING POOLS, DRIVEWAYS, OR STRUCTURES THAT MAY COMPACT THE SOIL SHALL NOT BE CONSTRUCTED OVER ANY PORTION OF THE ABSORPTION FIELD.
- NO TRENCHES TO BE INSTALLED IN WET SOIL.
- RAKE SIDES AND BOTTOM OF TRENCH PRIOR TO PLACING GRAVEL IN ABSORPTION TRENCH.
- GROUT ALL PIPE PENETRATIONS TO CONC. SEPTIC TANK & DISTRIBUTION BOX.
- DISTRIBUTION LINES ARE TO BE CARPED.
- THE PERIMETER OF THE ABSORPTION FIELD SHOULD BE GRADED TO DIVERT SURFACE WATER.
- ALL NEWLY DISTURBED AREAS SHALL BE IMMEDIATELY STABILIZED UPON CONSTRUCTION COMPLETION USING GRASS SEED & MULCH.
- NO SEWAGE SYSTEM SHALL BE PLACED WITHIN 35' OF ANY WATER COURSE DRAINAGE DITCH.
- ALL LAUNDRY AND KITCHEN WASTES SHALL BE DISCHARGED INTO SEWAGE SYSTEM.
- BENDS SHALL BE USED WHEN ENTRANCE OR EXIT FROM SEPTIC TANK IS NOT APPROXIMATELY STRAIGHT. IF BENDS ARE USED AT POINTS OTHER THAN ENTRANCE OR EXIT POINTS, THEN A CLEANOUT IS REQUIRED.
- THE DESIGN AND LOCATION OF THE SANITARY FACILITIES SHALL NOT BE CHANGED WITHOUT RESUBMISSION FOR APPROVAL.
- HEAVY EQUIPMENT SHALL BE KEPT OFF THE AREA OF THE ABSORPTION FIELDS EXCEPT DURING THE ACTUAL CONSTRUCTION. THERE SHALL BE NO UNNECESSARY MOVEMENT OF CONSTRUCTION EQUIPMENT IN THE ABSORPTION FIELD AREA BEFORE, DURING, OR AFTER CONSTRUCTION.
- THIS SYSTEM WAS NOT DESIGNED TO ACCOMMODATE GARBAGE GRINDERS, JACUZZI TYPE SPA TUBS OVER 100 GALLONS, OR WATER CONDITIONERS. AS SUCH, THESE ITEMS SHALL NOT BE INSTALLED UNLESS THE SYSTEM IS REDESIGNED TO ACCOUNT FOR THESE.
- THERE MUST BE AN UNINTERRUPTED POSITIVE SLOPE FROM THE SEPTIC TANK (OR ANY PUMPING OR DOSING CHAMBER) TO THE HOUSE, ALLOWING SEPTIC GASES TO DISCHARGE THROUGH THE STACK VENT.
- THE PURCHASER OF THIS LOT SHALL BE PROVIDED WITH A COPY OF THE APPROVED PLANS AND AN ACCURATE AS-BUILT DRAWING OF ANY EXISTING SANITARY FACILITIES.

TOWN CERTIFICATION

"I HEREBY CERTIFY TO THE TOWN OF NEWBURGH THAT THE SEWAGE DISPOSAL SYSTEM DEPICTED ON THIS PLAT HAS BEEN DESIGNED IN ACCORDANCE WITH THE NEW YORK STATE PUBLIC HEALTH LAW AND ALL REGULATIONS PROMULGATED THEREUNDER."

INSTALLATION NOTE

ALL CORNERS OF SEWAGE DISPOSAL SYSTEMS MUST BE STAKED OUT BY A SURVEYOR PRIOR TO CONSTRUCTION.

CONSTRUCTION NOTE:

AN AS-BUILT SEPTIC PLAN CERTIFIED BY A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER MUST BE SUBMITTED TO TOWN OF NEWBURGH, PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY (CO.) FOR THE NEW RESIDENCE, WHEN CONSTRUCTED.

COUNTY NOTE:

NO SITE PREPARATION OR CONSTRUCTION, INCLUDING UTILITY CONNECTIONS, SHALL COMMENCE UNTIL A VALID HIGHWAY WORK PERMIT HAS BEEN SECURED FROM THE ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS UNDER SECTION 1326 OF THE HIGHWAY LAW.

REFERENCES:

THE SOIL TESTING DEPICTED ON THIS SHEET WERE PERFORMED BY TALCOTT ENGINEERING.



PB# 2019-19

REVISION	BY	DATE	DESCRIPTION
1	MM	10/2/19	9/19/19 PB MTG. & 9/19/19 MHE COMMENTS

ARDEN CONSULTING ENGINEERS, PLLC
P.O. BOX 340 MONROE, N.Y.
TEL: (845) 782-8114
WWW.ARDENCONSULTING.NET

AMENDED SUBDIVISION PLAN FOR
ROCK CUT ESTATES
ROCK CUT ROAD
TOWN OF NEWBURGH, ORANGE COUNTY, N.Y.

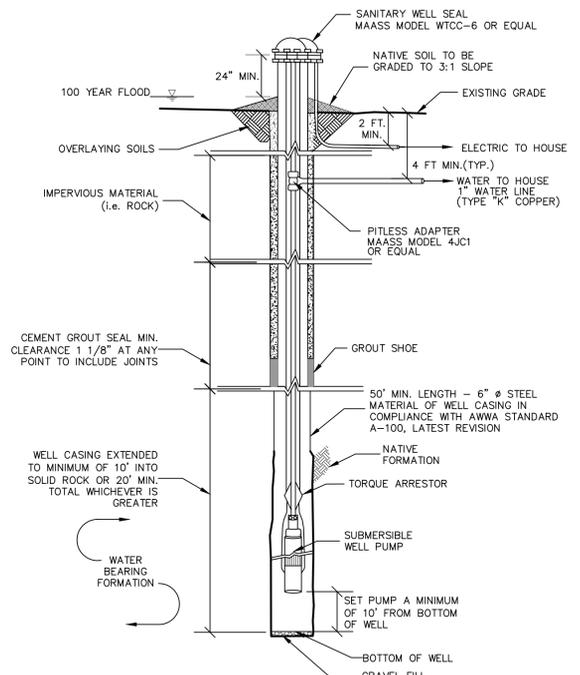
SOIL TESTING AND SEPTIC DESIGNS

MICHAEL A. MORGANTE, P.E.
LIC. NO. 078577

JOB#: 19-023
SCALE:
AS NOTED
DATE: 08-19-19
DRAWN:
CHECKED:
MM
SHEET NO. 04 of 10

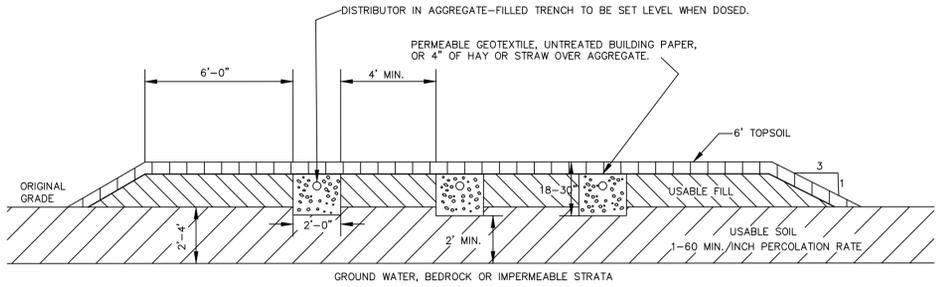
WARNING- IT IS A VIOLATION OF NEW YORK EDUCATIONAL LAW, SECTION 7209.2, FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATIONAL LAW, SECTION 7209.2

ONLY MAPS WITH EMBOSSED SEALS ARE GENUINE COPIES OF THE ORIGINAL WORK AND OPINION. MAPS NOT BEARING EMBOSSED SEALS SHOULD NOT BE RELIED UPON SINCE OTHER THAN EMBOSSED-SEAL COPIES MAY CONTAIN UNAUTHORIZED AND UNDETECTABLE MODIFICATIONS, DELETIONS, ADDITIONS AND CHANGES.



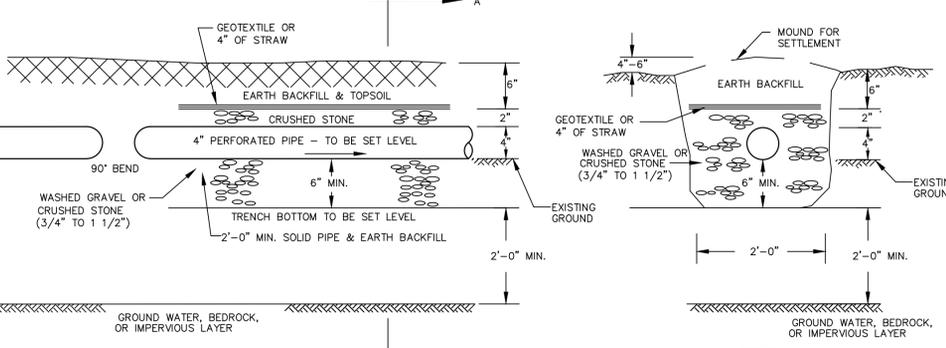
NOTES:
 1. THE LISTED WATER WELL SEPARATION DISTANCES FROM CONTAMINANT SOURCES SHALL BE INCREASED BY 50% WHENEVER AQUIFER WATER ENTERS THE WATER WELL AT LESS THAN 50 FEET BELOW GRADE. IF A 50% INCREASE IN SEPARATION DISTANCES CAN NOT BE ACHIEVED, THEN THE GREATEST POSSIBLE INCREASE IN SEPARATION DISTANCE SHALL BE PROVIDED WITH SUCH ADDITIONAL MEASURES AS NEEDED TO PREVENT CONTAMINATION. SEE ALSO NOTE 6 TO TABLE 2 OF APPENDIX 5-B.
 2. WELL TO BE INSTALLED IN ACCORDANCE WITH TONYORR APPENDIX 5-B STANDARDS FOR WATER WELLS.
 3. SANITARY WELL SEAL & PITLESS ADAPTER SHALL BE APPROVED BY THE WATER SYSTEMS COUNCIL.

WELL DETAIL
NOT TO SCALE

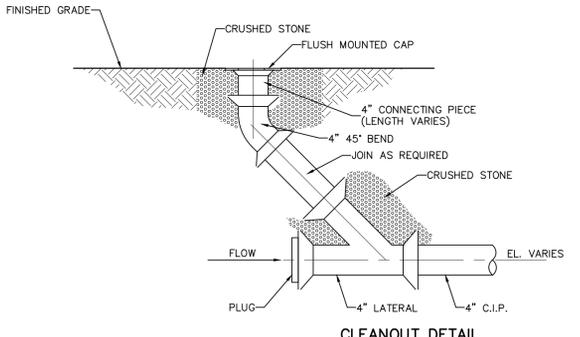


SHALLOW ABSORPTION TRENCH SYSTEM
NOT TO SCALE

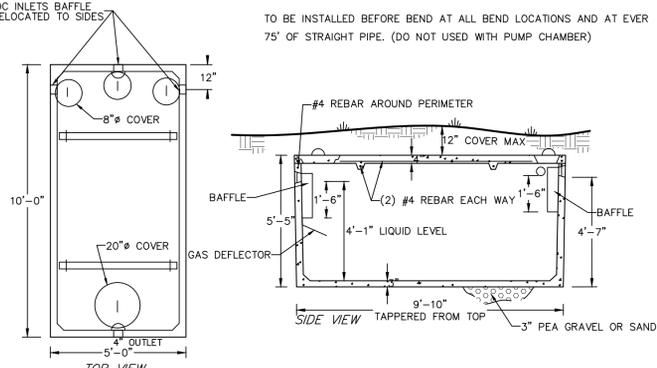
NOTES:
 BOTTOM OF ALL TRENCHES SHALL NOT BE ABOVE ORIGINAL USABLE SOIL AND TRENCH BOTTOM SHALL BE AT 6" BELOW ORIGINAL GRADE.
 USABLE FILL SHOULD HAVE A PERCOLATION RATE SIMILAR TO BUT NOT FASTER THAN THE USABLE SOIL PERCOLATION RATE.
 MAXIMUM DEPTH OF USABLE FILL PLUS SIX INCHES OF TOPSOIL SHALL NOT EXCEED 30 INCHES.
 TRENCH BOTTOMS SHALL BE LEVEL. TRENCHES SHALL BE PARALLEL TO GROUND CONTOURS.
 ON SLOPED SITES, A DIVERSION DITCH SHALL BE CONSTRUCTED UPHILL FROM THE FILL TO PREVENT SURFACE RUNOFF FROM ENTERING THE FILL.
 FILL SHALL EXTEND AT LEAST SIX FEET BEYOND ENDS OF TRENCHES BEFORE STARTING 1 ON 3 EDGES OF FILL.



SHALLOW ABSORPTION TRENCH DETAIL
NOT TO SCALE



CLEANOUT DETAIL
N.T.S.

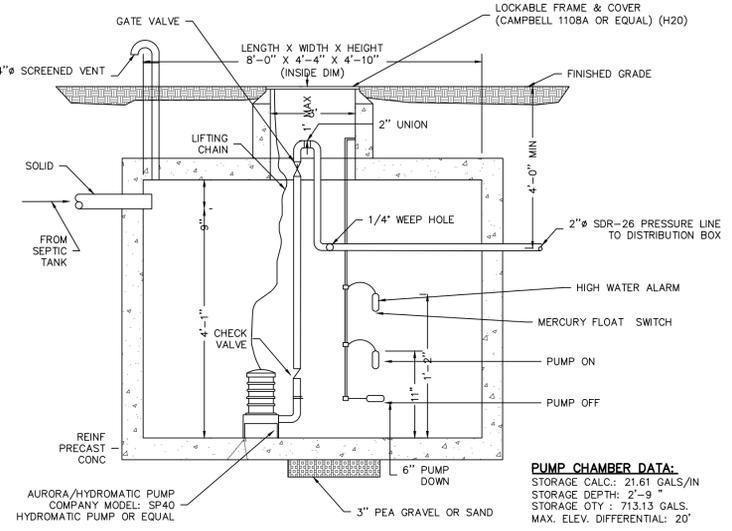


WOODARD'S 1250gal. SEPTIC TANK OR EQUAL
N.T.S.

SPECIFICATIONS:
 CONCRETE MINIMUM STRENGTH- 4,000 PSI AT 28 DAYS REINFORCEMENT- 6"x6" @ 10GA. WWF, #4 REBAR AIR ENTRAPMENT- 5% CONSTRUCTION JOINT- BUTYL RUBBER - BASE CEMENT PIPE CONNECTION- POLYLOC SEAL (PATENTED) LOAD RATING- 300PSF WEIGHT = 9,500LBS

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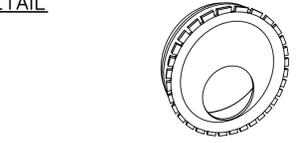
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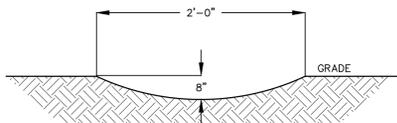
PUMP CHAMBER
N.T.S.

# OF BEDROOMS	75% VOL. LATS.	VOL. FORCE MAIN	TOTAL	PUMP DOWN	X	Y	DOSE QTY.
3	134.68 GALS.	11.41 GALS.	146.09 GALS.	7"	1'-0"	1'-4"	151.27 GALS.
4	161.62 GALS.	11.41 GALS.	146.09 GALS.	8"	1'-1"	1'-4"	172.88 GALS.

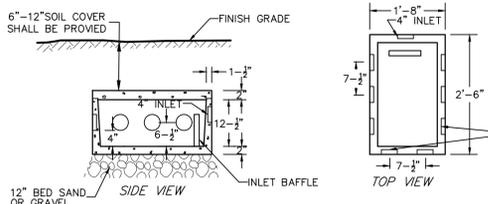
PUMP CHAMBER NOTES:
 1. CONTRACTOR SHALL DETERMINE LENGTHS OF REQUIRED ELECTRICAL CABLE AND AVAILABLE VOLTAGE PRIOR TO ORDERING EQUIPMENT.
 2. ALL WIRING SHALL CONFORM TO NATIONAL ELECTRICAL CODE & LOCAL CODE REQUIREMENTS.
 3. THE POWER AND CONTROL WIRING SHALL BE MADE DIRECTLY TO THE CONTROL PANEL WITHOUT AND OUTSIDE SPLICES. CONTROL PANEL TO BE LOCATED INSIDE BASEMENT OF HOUSE AUDIBLE ALARMS AND FLASHING LIGHT.
 4. A N.Y.S. PROFESSIONAL ENGINEER MUST CERTIFY TO THE CONSTRUCTION OF THE SYSTEM.
 5. QUANTITY DOSED IS BASED UPON 75% OF 4" PIPE AND 100% OF FORCE MAIN.
 6. QUANTITY STORED IS BASED UPON (1) DAYS FLOW MINIMUM.
 7. AS-BUILT MUST SHOW FORCE MAIN LOCATION.



SPEED LEVELER
NOT TO SCALE



SEPTIC/SWALE CROSS SECTION
NOT TO SCALE



WOODARD'S PRECAST 8 OUTLET DISTRIBUTION BOX
N.T.S.

SPECIFICATIONS:
 CONCRETE MINIMUM STRENGTH- 4,000 PSI AT 28 DAYS REINFORCEMENT- FIBER AIR ENTRAPMENT- 5% PIPE CONNECTION- POLYLOC SEAL (PATENTED) LOAD RATING- 300 PSF WEIGHT= 290 lbs

TABLE 2 REQUIRED SEPARATION DISTANCES FROM WASTEWATER SYSTEM COMPONENTS (FEET)

SYSTEM COMPONENTS	WELL OR SUCTION LINE (a) (g)	STREAM, LAKE, WATERCOURSE (b), or WETLAND	DWELLING	PROPERTY LINE	DRAINAGE DITCH or RAIN GARDENS (h)
HOUSE SEWER DRAIN (WATERTIGHT JOINTS)	25 IF CAST IRON 50 OTHERWISE	25	3	10	10
SEPTIC TANK, DOSING TANK & WATERTIGHT ETU	50	50	10	10	10
EFFLUENT LINE TO DISTRIBUTION BOX/DROP BOX	50	50	10	10	10
DISTRIBUTION BOX/DROP BOX	100	100	20	10	50
ABSORPTION FIELD (c) (d)	100 (a)	100	20	10	50
SEEPAGE PIT (d)	150 (a)	100	20	10	50
RAISED SYSTEM or MOUND (c) (d)	100 (a)	100	20	10	50
INTERMITTENT SAND FILTER (d)	100 (a) (f)	100 (f)	20	10	50
NON WATERBORNE SYSTEMS WITH OFFSITE RESIDUAL DISPOSAL	50	50	20	10	50
NON WATERBORNE SYSTEMS WITH ONSITE DISCHARGE	100	50	20	10	50

NOTES:
 A) WHEN WASTEWATER TREATMENTS SYSTEMS ARE LOCATED UPGRADE AND IN THE DIRECT PATH OF SURFACE WATER DRAINAGE TO A WELL, THE CLOSEST PART OF THE TREATMENT SYSTEM SHALL BE AT LEAST 200 FEET AWAY FROM THE WELL.
 B) MEAN HIGH WATER MARK, WETLAND OR WATERCOURSE DETERMINATIONS SHOULD BE ADDRESSED WITH THE LHD OR OTHER AGENCY HAVING JURISDICTION AND THE APPLICABLE NYSDEC REGIONAL OFFICE.
 C) FOR ALL SYSTEMS INVOLVING THE PLACEMENT OF FILL MATERIAL, SEPARATION DISTANCES ARE MEASURED FROM THE TOE OF SLOPE OF THE FILL, EXCEPT FOR SOME SHALLOW ABSORPTION TRENCH SYSTEMS AS DESCRIBED IN 9.12.2 OF THIS HANDBOOK.
 D) SEPARATION DISTANCES SHALL ALSO BE MEASURED FROM THE EDGE OF THE DESIGNATED ADDITIONAL USABLE AREA [i.e. RESERVE AREA], WHEN AVAILABLE.
 E) THE CLOSEST PART OF THE WASTEWATER TREATMENT SYSTEM SHALL BE LOCATED AT LEAST TEN (10) FEET FROM ANY WATER SERVICE LINE (e.g., PUBLIC WATER SUPPLY MAIN, PUBLIC WATER SERVICE LINE OR RESIDENTIAL WELL WATER SERVICE LINE).
 F) WHEN INTERMITTENT SAND FILTERS ARE DESIGNED TO BE WATERTIGHT AND COLLECT ALL EFFLUENT, THE SEPARATION DISTANCE CAN BE REDUCED TO 50 FEET.
 G) THE LISTED WATER WELL SEPARATION DISTANCES FROM CONTAMINANT SOURCES SHALL BE INCREASED BY 50% WHENEVER AQUIFER WATER ENTERS THE WATER WELL AT LESS THAN 50 FEET BELOW GRADE. IF A 50% INCREASE CANNOT BE ACHIEVED, THEN THE GREATEST POSSIBLE INCREASE IN SEPARATION DISTANCE SHALL BE PROVIDED WITH SUCH ADDITIONAL MEASURES AS NEEDED TO PREVENT CONTAMINATION.
 H) RECOMMENDED; USE SITE EVALUATION TO AVOID OWTs SHORT-CIRCUITING TO THE SURFACE OR GROUNDWATER AND TO MINIMIZE IMPACTS ON OWTs FUNCTIONALITY.
 EMBANKMENT OR VERY STEEP SLOPE: IT IS RECOMMENDED THAT SYSTEM COMPONENTS BE LOCATED A MINIMUM OF 25 FEET AND THE ABSORPTION FIELD BE LOCATED A MINIMUM OF 50 FEET FROM AN EMBANKMENT OR VERY STEEP SLOPE. MAXIMIZE SEPARATION DISTANCES AND USE SITE EVALUATION TO AVOID SHORT-CIRCUITING TO SURFACE (BREAKOUT OR SEEPAGE).
 SWIMMING POOLS (ABOVE OR BELOW GROUND): IT IS RECOMMENDED THAT SYSTEM COMPONENTS BE LOCATED A MINIMUM OF 20 FEET AND THE ABSORPTION FIELD BE LOCATE A MINIMUM OF 35 FEET FROM SWIMMING POOLS. MAXIMIZE SEPARATION DISTANCES AND USE SITE EVALUATION TO MINIMIZE IMPACTS ON OWTs ACCESSIBILITY AND FUNCTIONALITY.

- ACCEPTED AS ORANGE COUNTY HEALTH DEPARTMENT POLICY & STANDARD WITH THE FOLLOWING ADDITIONS**
- SEPARATION: WELL TO SWALE, STREAM OR WATERCOURSE - 25'
 - SEPARATION: ABSORPTION FIELD TO THE HIGH WATER LINE OF A WET POND - 100'
 - SEPARATION: ABSORPTION FIELD TO INTERMITTENT STREAM, DRY WELL, CULVERT OR STORM SEWER (NON-GASKETED PIPE), OR CATCH BASIN - 50'
 - SEPARATION: ABSORPTION FIELD TO CULVERT OR STORM SEWER (GASKETED, TIGHT PIPE) - 35'
 - SEPARATION: ABSORPTION FIELD TO CURTAIN DRAIN - 15'
 - SEPARATION: ABSORPTION FIELD, PITS, EXPANSION AREA, TO TOP OF EMBANKMENT OR STEEP (1 ON 3) SLOPE - 25'
 - SEPARATION: ABSORPTION FIELD TO SOLID CURTAIN DRAIN, ROOF OR FOOTING PIPES, SNOW STORAGE ESMT - 10'
 - DRAINAGE PIPES WITHIN 25' OF ANY WELL MUST BE WATERTIGHT.
 - SEPARATION: WELL TO CEMETERY PROPERTY LINE - 100'
 - SEPARATION: WELL TO SUBDIVISION BOUNDARY - 50'
 - SEPARATION: EVAPOTRANSPIRATION-ABSORPTION SYSTEM TO DRAINAGE DITCH - 50'
 - SEPARATION: DRY WELL (ROOF AND FOOTING) TO DRAINAGE DITCH - 50'.

REQUIRED SEPTIC SYSTEM INSPECTIONS

THE SYSTEM MUST BE INSTALLED IN ACCORDANCE WITH THE APPROVED DRAWINGS. THE ENGINEER MUST INSPECT THE SITE AT EACH OF THE FOLLOWING POINTS DURING THE SYSTEM INSTALLATION AND GRANT APPROVAL PRIOR TO CONTINUING WITH THE NEXT STAGE OF WORK. NYS SHALLOW ABSORPTION AND RAISED SYSTEMS ARE ENGINEERED SYSTEMS THAT REQUIRE INSPECTION, VERIFICATION AND A LETTER OF COMPLETION BY A LICENSED ENGINEER.

1. SITE MEETING WITH CONTRACTOR	1. LOCATE AND PLACE CORNER STAKES FOR FIELD.
2. INSPECTION OF THE FILL IN PLACE. PERC TEST TO BE DONE BY ENGINEER PRIOR TO TRENCH INSTALLATION AT THE ENGINEER'S DISCRETION.	2. TREES IN FIELD AREA TO BE CUT. GROUND TO REMAIN UNDISTURBED. STUMPS TO BE CUT FLUSH TO THE GROUND. FIELD AREA TO BE PLOWED PARALLEL TO DIRECTION OF LATERAL LINES. 3. CONTRACTOR SHALL OBTAIN A PERC. RATE TEST OF ACCEPTABLE RANGE FROM THE SOURCE PIT OF THE INTENDED FILL MATERIAL - PRIOR TO EXCAVATION AT THE PIT AND DELIVERY TO THE SITE. 4. FILL MATERIAL TO BE PLACED ON SEPTIC FIELD SITE ACCORDING TO GUIDELINES PER THIS DESIGN AND DETAILS.
3. INSPECTION BY ENGINEER AND ULSTER COUNTY DEPT. OF HEALTH	5. TRENCHES TO BE CUT INTO FILL MATERIAL. SEE PLAN FOR DEPTH. 6. BASE AGGREGATE TO BE PLACED IN TRENCHES. SEE PLAN FOR DEPTH. 7. LATERAL DISTRIBUTION PIPES AND DISTRIBUTION BOX TO BE INSTALLED AND LEFT EXPOSED.
4. INSPECTION BY ENGINEER AND ULSTER COUNTY DEPT. OF HEALTH	8. AGGREGATE COVER LAYER AND PERMEABLE GEOTEXTILE COVER TO BE INSTALLED OVER LATERALS IN TRENCHES. SEE PLAN FOR DEPTH OF AGGREGATE COVER LAYER. 9. SEPTIC TANK TO BE SET IN HOLE AND LEFT EXPOSED. 10. INLET AND OUTLET LINES TO TANK TO BE INSTALLED AND LEFT EXPOSED.
5. INSPECTION BY ENGINEER OF FINISHED SYSTEM.	11. COVER TANKS, LINES AND SEPTIC FIELD WITH FINISH COVER MATERIAL. 12. FINISH DIVERSION SWALES, FINE GRADING AND SEEDING.

REVISION	BY	DATE	DESCRIPTION
1	MM	10/2/19	9/19/19 PB MTG. & 9/19/19 MHE COMMENTS

THIS SHEET IS NOT VALID WITHOUT ALL OF THE SHEETS THAT COMPRISE THE SET

ARDEN CONSULTING ENGINEERS, PLLC
 P.O. BOX 340 MONROE, N.Y.
 TEL: (845) 782-8114
 WWW.ARDENCONSULTING.NET

AMENDED SUBDIVISION PLAN FOR
ROCK CUT ESTATES
 ROCK CUT ROAD
 TOWN OF NEWBURCH, ORANGE COUNTY, N.Y.

SEPTIC DETAILS

MICHAEL A. MORGANTE, P.E.
 LIC. NO. 78577

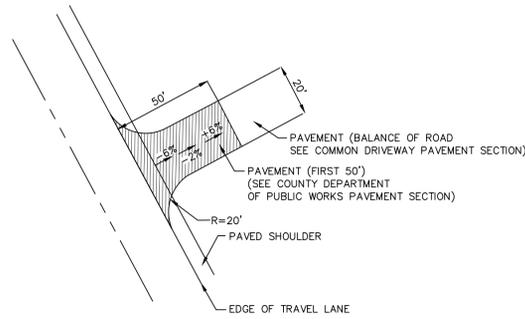
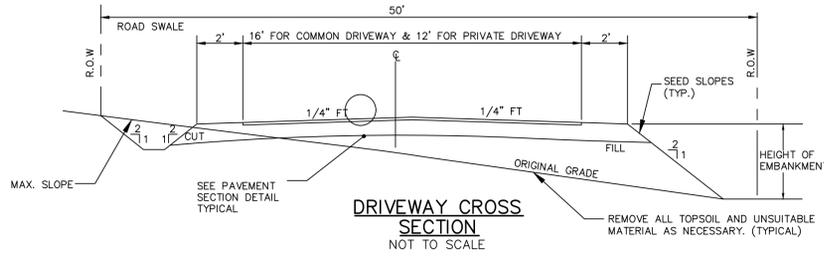
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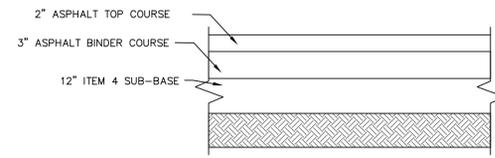
PB# 2019-19

COUNTY NOTE:

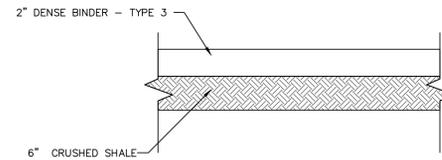
NO SITE PREPARATION OR CONSTRUCTION, INCLUDING UTILITY CONNECTIONS, SHALL COMMENCE UNTIL A VALID HIGHWAY WORK PERMIT HAS BEEN SECURED FROM THE ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS UNDER SECTION 1326 OF THE HIGHWAY LAW.



**COMMON DRIVEWAY
ENTRANCE**
NOT TO SCALE



COUNTY DEPARTMENT OF PUBLIC WORKS PAVEMENT SECTION
(FIRST 50')
NOT TO SCALE



**COMMON DRIVEWAY
PAVEMENT SECTION**
(BALANCE OF ROAD)
NOT TO SCALE

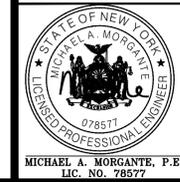
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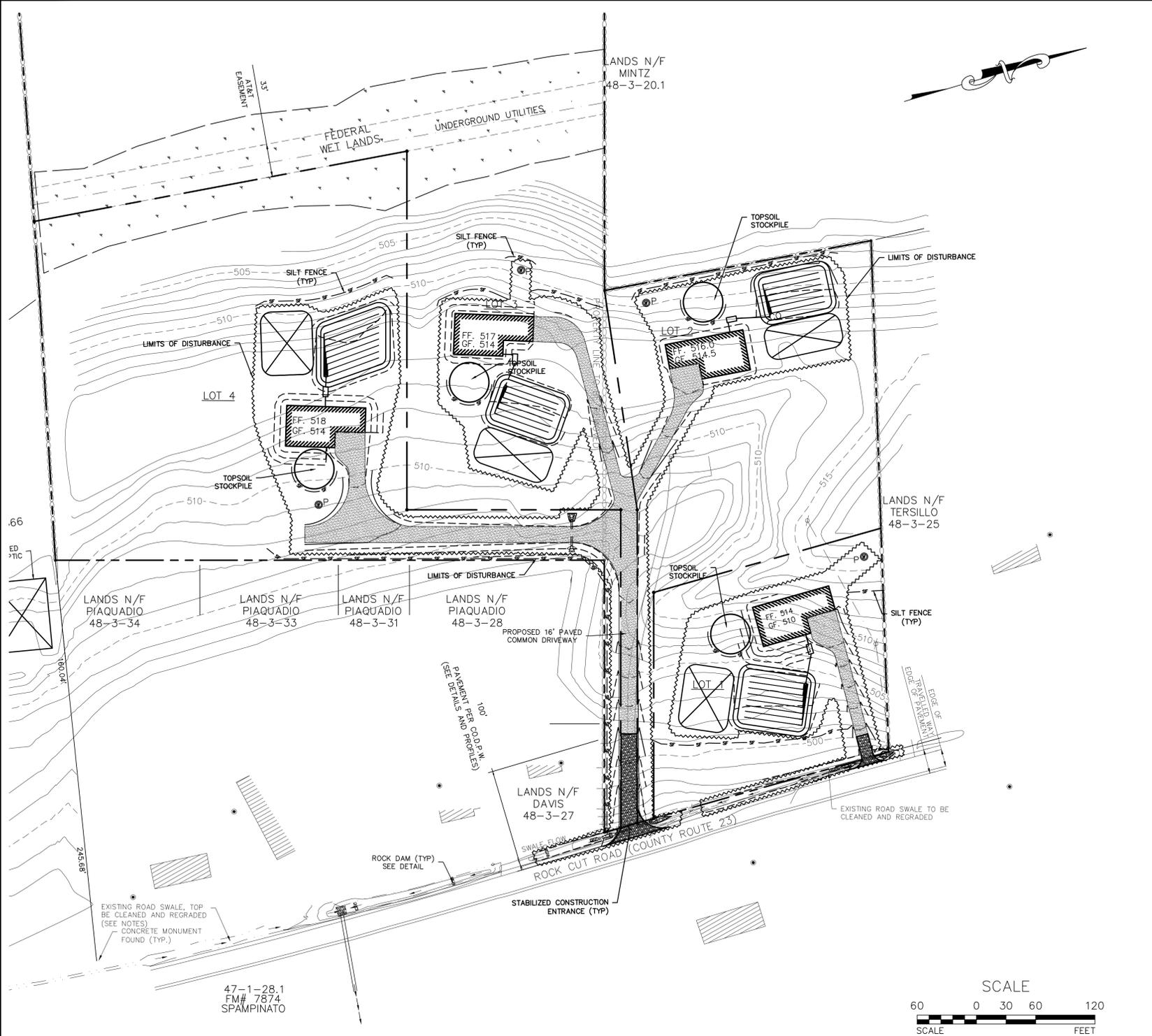
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ROCK CUT ESTATES
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MISC. DETAILS

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WARNING- IT IS A VIOLATION OF NEW YORK EDUCATIONAL LAW, SECTION 7209.2, FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATIONAL LAW, SECTION 7209.2

ONLY MAPS WITH EMBOSSED SEALS ARE GENUINE COPIES OF THE ORIGINAL WORK AND OPINION. MAPS NOT BEARING EMBOSSED SEALS SHOULD NOT BE RELIED UPON SINCE OTHER THAN EMBOSSED-SEAL COPIES MAY CONTAIN UNAUTHORIZED AND UNDETECTABLE MODIFICATIONS, DELETIONS, ADDITIONS AND CHANGES.



LEGEND:

---	EXISTING MAJOR CONTOUR
- - -	EXISTING MINOR CONTOUR
---	EXISTING PROPERTY LINE
---	EXISTING ADJACENT PROPERTY LINE
---	EXISTING BUILDING LINE
---	EXISTING SWALE
---	EXISTING STONE WALL
---	EXISTING GRAVEL DRIVEWAY
---	EXISTING TREETLINE
---	EXISTING SWALE
---	EXISTING ROCK DAM
○	EXISTING WELL
○	EXISTING POLE
○	EXISTING IRON ROD FOUND
○	DEEP TESTS
○	PERCOLATION TEST
---	EXISTING WETLAND
---	PROPOSED PROPERTY LINE
---	PROPOSED BUILDING
---	PROPOSED DRIVEWAY
---	PROPOSED SEPTIC SYSTEM
---	PROPOSED DRAINAGE LINE
---	PROPOSED SWALE
---	PROPOSED MAJOR CONTOUR
---	PROPOSED MINOR CONTOUR
---	LIMITS OF DISTURBANCE
---	SILT FENCE
---	PROPOSED RIP RAP
---	PROPOSED DRIVEWAY HATCH
---	STABILIZED CONSTRUCTION ENTRANCE
---	PROPOSED CULVERT
---	PROPOSED WELL
---	PROPOSED CATCH BASIN
---	PROPOSED MANHOLE

BEST MANAGEMENT PRACTICES FOR SITE FACILITY MAINTENANCE
 THE OWNER WILL BE RESPONSIBLE FOR THE MAINTENANCE AND OPERATION OF ALL SITE RELATED FACILITIES, INCLUDING THE STORM WATER SEDIMENT AND DETENTION BASINS AND THE FOLLOWING MEASURES AND/OR STRUCTURES, AS APPLICABLE AND SHOWN ON THE PLANS:

WATER QUALITY INLETS
 1. WATER QUALITY INLETS SHALL BE CLEANED OUT AT LEAST TWICE A YEAR TO REMOVE POLLUTANTS. REMOVED MATERIAL SHOULD BE TAKEN TO A TREATMENT PLANT OR APPROVED LANDFILL FOR DISPOSAL.
 2. STORM WATER INLETS THROUGHOUT THE SITE SHALL BE INSPECTED ANNUALLY FOR ACCUMULATED SEDIMENT OR OTHER PROBLEMS AND REPAIRED AS NECESSARY.

PARKING AND ROADWAY PAVEMENTS
 1. PARKING AREA AND ROADWAY PAVEMENTS SHALL BE SWEEPED ON A REGULAR BASIS TO REMOVE ACCUMULATED SEDIMENT. COLLECTED SEDIMENT SHALL BE REMOVED TO AN APPROVED DISPOSAL SITE WHICH WILL NOT ALLOW THE RE-ENTRANCE OF SILT INTO THE STORM WATER DRAINAGE SYSTEM.

VEGETATIVE STABILIZATION
 1. ALL VEGETATIVE PLANTING ON AREAS WHICH HAVE BEEN DISTURBED AND ARE FINISH GRADED SHALL BE INSPECTED AFTER EACH RAIN EVENT. PLANTING (OR SEEDING) SHALL BE MAINTAINED IN A VIABLE CONDITION TO STABILIZE THE SOIL AND TO PREVENT SOIL EROSION. RESTORE ALL SITE PLANTING AND/OR SEEDING WHICH HAS BEEN DAMAGED TO A VIABLE CONDITION.
 2. IF VEGETATIVE STABILIZATION HAS BEEN DAMAGED FROM STORM WATER EROSION, CORRECT UPSTREAM CONDITIONS WHICH CAUSED THE EROSION. CHECK DAMS MAY BE REQUIRED IN DRAINAGE WAYS, AND STONE OUTFALL APRONS MAY BE REQUIRED TO BE REPAIRED AT STORM WATER OUTLETS.

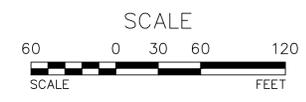
CONSTRUCTION ACTIVITY
 1. CONSTRUCTION ACTIVITIES WILL OCCUR DURING WEEKDAYS COMMENCING AT 7:00 AM AND TERMINATING AT 6:00 PM

EROSION AND SILTATION CONTROL NOTES:
 1. GRADED AREAS - UPPER ELEVATIONS: PROVIDE TEMPORARY DRAINAGE SWALES, 1% GRADE MIN., TO DIRECT RUNOFF AWAY FROM CONSTRUCTION SITES. DISCHARGE AREAS AND ENERGY DISPERSION REQUIREMENTS TO BE ACCEPTABLE TO OWNER.
 2. GRADED AREAS - LOWER ELEVATIONS: PROVIDE DRAINAGE SWALES, 1% MIN. GRADES, WITH STAKED AND SECURED HAY BALE BERMS TO PREVENT DOWN STREAM AND DOWN GRADIENT SILTATION.

SEDIMENT & EROSION CONTROL NOTES & CONSTRUCTION SEQUENCING
 1. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES FOR ALL ROAD AND DRIVE ENTRANCES. STREETS SHALL BE CLEANED DAILY.
 2. INSTALL SEDIMENT BARRIERS/SWALES/DITCHES/DIKES AT DOWN SLOPE AREAS FROM ALL PROPOSED GRADING OPERATIONS, AND INSTALL OTHER SEDIMENTATION AND EROSION CONTROL STRUCTURES OR MEASURES AS SHOWN ON THE DRAWINGS.
 3. LAND DISTURBANCE SHALL BE LIMITED TO ONLY THAT AREA NECESSARY FOR DEVELOPMENT. NO MORE THAN FIVE (5) ACRES OF UNPROTECTED SOIL SHALL BE DISTURBED AT ONE TIME. PREVIOUS EARTHWORK SHALL BE STABILIZED AS SPECIFIED BEFORE ADDITIONAL AREA IS EXPOSED.
 4. CLEAR EXISTING TREES AND VEGETATION FROM AREAS TO BE EXCAVATED OR FILLED, THEN STRIP AND STOCKPILE TOPSOIL FROM ALL AREAS TO BE DISTURBED. SEED STOCKPILED TOPSOIL WITH TEMPORARY RYEGRASS COVER AS SPECIFIED BELOW (SEE NOTE B), AND ERECT A SILT FENCE AROUND THE STOCKPILE.
 5. PROTECT ALL TREES WHICH ARE TO REMAIN AND WHICH ARE IN OR NEAR CONSTRUCTION AREAS.
 6. PERFORM NECESSARY EXCAVATION OR FILL OPERATIONS TO BRING SITE TO DESIRED SUBGRADE.
 7. INSTALL SEDIMENT BARRIERS AROUND ALL STORM DRAIN INLETS, OR MODIFY SEDIMENT CONTROL MEASURES INSTALLED IN #2 ABOVE AND MAINTAIN UNTIL ALL DISTURBED AREAS ARE STABILIZED WITH VEGETATION AND ALL PAVEMENTS ARE PAVED WITH A BASE COURSE.
 8. TEMPORARILY SEED ALL DISTURBED AREAS WHICH WILL REMAIN UNDISTURBED FOR A PERIOD OF 15 DAYS OR MORE AND WHICH WILL NOT BE UNDER CONSTRUCTION WITHIN 30 DAYS IN ACCORDANCE WITH SPECIFICATION FOR VEGETATIVE ESTABLISHMENT.
 9. IF CONSTRUCTION IS SUSPENDED OR COMPLETED, ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED IMMEDIATELY. ALL SLOPES STEEPER THAN ONE ON THREE (V/H) AND PERIMETER TRENCHES AND TRAP EMBANKMENTS SHALL, ON COMPLETION, BE IMMEDIATELY STABILIZED WITH TEMPORARY SEEDING AND MULCHING.
 10. AFTER COMPLETION OF SITE CONSTRUCTION, FINE GRADE AND SPREAD TOPSOIL ON ALL LAWN AREAS AND SEED WITH PERMANENT LAWN MIX AS DISCUSSED ON THE SPECIFICATIONS FOR VEGETATIVE ESTABLISHMENT ON THIS SHEET.
 11. DURING THE PROGRESS OF CONSTRUCTION, MAINTAIN ALL SEDIMENT TRAPS, BARRIERS, AND FILTERS AS NECESSARY TO PREVENT THEIR BEING CLOGGED UP WITH SEDIMENT.
 12. AFTER PAVEMENTS ARE INSTALLED AND PERMANENT VEGETATIVE COVER AND PLANTINGS ARE ESTABLISHED, REMOVE SEDIMENT BARRIERS AND SEED THOSE DISTURBED AREAS.
 13. MAINTAIN ALL SEEDED AND PLANTED AREAS TO INSURE A VIABLE STABILIZED VEGETATIVE COVER.
 14. STRUCTURAL MEASURES MUST BE MAINTAINED TO BE EFFECTIVE. IN GENERAL, THESE MEASURES MUST BE PERIODICALLY INSPECTED TO INSURE STRUCTURAL INTEGRITY, TO DETECT VANDALISM DAMAGE, AND FOR CLEANING AND REPAIR WHENEVER NECESSARY.
 15. DURING CONSTRUCTION, ALL STRUCTURES SHOULD BE INSPECTED WEEKLY AND AFTER EVERY RAIN. REMOVE ACCUMULATED SEDIMENT AND STOCKPILE AND STABILIZE IN AN AREA NOT SUBJECT TO FURTHER EROSION.
 16. AFTER CONSTRUCTION IS COMPLETED, PERMANENT SEDIMENT OR EROSION CONTROL STRUCTURES SHOULD BE INSPECTED AT LEAST SEMI-ANNUALLY AND AFTER EVERY RAIN.

SPECIFICATIONS FOR VEGETATIVE ESTABLISHMENT:

- PERMANENT SEEDING:**
 - SEEDBED PREPARATION: AREA TO BE SEEDED SHALL BE LOOSE AND FRIABLE TO A DEPTH OF AT LEAST 3 INCHES. THE TOP LAYER SHALL BE LOOSENEED BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING OCCURS. FOR SITES LESS THAN 5 ACRES, APPLY 100 POUNDS OF DOLOMITIC LIMESTONE AND 21 POUNDS OF 10-20-20 FERTILIZER PER 1,000 SF. HARROW OR DISK LIME AND FERTILIZER INTO THE SOIL TO A DEPTH OF AT LEAST 3 INCHES ON SLOPES FLATTER THAN 3:1.
 - SEEDING: APPLY 5-6 POUNDS PER 1,000 SF OF SEED MIX BETWEEN FEBRUARY 1 AND MAY 15 OR BETWEEN AUGUST 15 AND OCTOBER 31. APPLY SEED UNIFORMLY ON A MOIST FIRM SEEDBED WITH A CYCLONE SEEDED DRILL, CULPACKER SEEDER OR HYDROSEEDER (SLURRY INCLUDES SEEDS AND FERTILIZER, RECOMMENDED ON STEEP SLOPES ONLY). MAXIMUM SEED DEPTH SHOULD BE 1/4 INCH IN CLAYEY SOILS AND 1/2 INCH IN SANDY SOILS WHEN USING OTHER THAN THE HYDROSEEDER METHOD. IRRIGATE IF SOIL MOISTURE IS DEFICIENT TO SUPPORT ADEQUATE GROWTH UNTIL VEGETATION IS FIRMLY ESTABLISHED. SELECT SEED MIXTURES FROM SECTION 3, NYS GUIDELINES FOR URBAN EROSION & SEDIMENT CONTROL.
 - MULCHING: MULCH SHALL BE APPLIED TO ALL SEEDED AREAS IMMEDIATELY AFTER SEEDING. DURING THE TIME PERIODS WHEN SEEDING IS NOT PERMITTED, MULCH SHALL BE APPLIED IMMEDIATELY AFTER GRADING. MULCH SHALL BE UNROTATED, UNCHOPPED, SMALL GRAIN STRAW APPLIED AT A RATE OF 2 TONS PER ACRE OR 90 POUNDS PER 1,000 SQUARE FEET (2 BALES). IF A MULCH ANCHORING TOOL IS USED, APPLY 2.5 TONS PER ACRE. MULCH MATERIALS SHALL BE RELATIVELY FREE OF ALL KINDS OF WEEDS AND SHALL BE COMPLETELY FREE OF PROHIBITED NOXIOUS WEEDS. SPREAD MULCH UNIFORMLY, MECHANICALLY OR BY HAND TO A DEPTH OF 1-2 INCHES.
 - SECURING STRAW MULCH: STRAW MULCH SHALL BE SECURED IMMEDIATELY FOLLOWING MULCH APPLICATIONS TO MINIMIZE MOVEMENT OF WIND OR WATER. THE FOLLOWING METHODS ARE PERMITTED:
 - USE A MULCH ANCHORING TOOL WHICH IS DESIGNED TO PUNCH AND ANCHOR FABRIC TYPE MULCH INTO THE SOIL SURFACE TO A MINIMUM DEPTH OF 2 INCHES. THIS IS THE MOST EFFECTIVE METHOD FOR SECURING MULCH, HOWEVER, IT IS LIMITED TO RELATIVELY FLAT AREAS WHERE EQUIPMENT CAN OPERATE SAFELY.
 - WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. APPLY THE FIBER BINDER AT A NET DRY WEIGHT OF 750 POUNDS PER ACRE. IF MIXED WITH WATER, USE 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER.
 - LIQUID BINDERS MAY BE USED AND APPLIED HEAVIER AT THE EDGES WHERE WIND CATCHES MULCH, SUCH AS IN VALLEYS AND ON CRESTS OF SLOPES. THE REMAINDER OF THE AREA SHOULD APPEAR UNIFORM AFTER BINDER APPLICATION.
 - LIGHTWEIGHT NETTING, MAY BE USED TO SECURE MULCH. THE NETTING WILL BE STAPLED TO THE GROUND ACCORDING TO MANUFACTURERS' RECOMMENDATIONS.
- TEMPORARY SEEDING:**
 - LIME: 100 POUNDS OF DOLOMITIC LIMESTONE PER 1,000 SF
 - FERTILIZER: 15 POUNDS OF 10-10-10 PER 1,000 SF
 - SEED: PERENNIAL RYE-0.92 POUNDS PER 1,000 SF
- FILL:**
 - NO FILLS MAY BE PLACED ON FROZEN GROUND. ALL FILL TO BE PLACED IN APPROXIMATELY HORIZONTAL LAYERS, EACH LAYER HAVING A LOOSE THICKNESS OF NOT MORE THAN 8 INCHES. ALL FILL IN ROADWAYS AND PARKING AREAS IS TO BE CLASSIFIED TYPE 2 COMPACTED TO 90% DENSITY; COMPACTION TO BE DETERMINED BY ASTM D-1557-66T (MODIFIED PROCTOR). ANY FILL WITHIN THE BUILDING AREA IS TO BE COMPACTION TO A MINIMUM OF 95% AS DETERMINED BY METHODS PREVIOUSLY MENTIONED. FILLS FOR POND EMBANKMENTS SHALL BE COMPACTION AS FOR THE PROJECT ENGINEER'S SPECIFICATIONS. ALL OTHER FILLS SHALL BE COMPACTION SUFFICIENTLY SO AS TO BE STABLE AND PREVENT EROSION AND SLIPPAGE.
- PERMANENT SOD:**
 - INSTALLATION OF SOD SHOULD FOLLOW THE PERMANENT SEEDING DATES. PERMANENT SOD IS TO BE STATE APPROVED SOD; LIME AND FERTILIZER PER PERMANENT SEEDING SPECIFICATIONS AND LIGHTLY IRRIGATE SOIL PRIOR TO LAYING SOD. SOD IS TO BE LAID ON THE CONTOUR WITH ALL ENDS TIGHTLY ABUTTING. JOINTS ARE TO BE STAGGERED BETWEEN ROWS. WATER AND ROLL OR TAMP SOD TO INSURE POSITIVE ROOT CONTACT WITH THE SOIL. ALL SLOPES STEEPER THAN 3:1, AS SHOWN, ARE TO BE PERMANENTLY SODDED OR PROTECTED WITH APPROVED EROSION CONTROL NETTING. ADDITIONAL WATERING FOR ESTABLISHMENT MAY BE REQUIRED. SOD IS NOT TO BE APPLIED ON FROZEN GROUND. SOD SHALL NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (DRY OR WET) AND/OR EXTREME TEMPERATURE MAY ADVERSELY AFFECT ITS SURVIVAL. IN THE ABSENCE OF ADEQUATE RAINFALL, IRRIGATION SHOULD BE PERFORMED TO INSURE ESTABLISHED SOD.



EROSION AND SEDIMENTATION CONTROL PLAN AND NOTES

SCALE: 1"=60'

- CONSTRUCTION SEQUENCE**
- REMOVE ALL EXISTING STRUCTURES.
 - APPLY FOR BUILDING PERMIT
 - STAKEOUT DRIVEWAY CENTERLINE, CATCH BASINS AND PIPING SWALES.
 - INSTALL TEMPORARY EROSION CONTROL DEVICES AND STABILIZED CONSTRUCTION ENTRANCE.
 - CLEAR DRIVEWAY AREA AND STOCKPILE SOIL.
 - BUILD SWALES AND DRAINAGE STRUCTURES.
 - PERFORM ROUGH GRADING FOR DRIVEWAY.
 - FINE GRADE SITE, PLACE DRIVEWAY SUBBASE, AND SEED UNPAVED AREAS.
 - COMPLETE CONSTRUCTION.
 - REMOVE TEMPORARY EROSION CONTROL DEVICES.

- ADDITIONAL TREE PROTECTION NOTES**
- LIMITS OF DISTURBANCE SHALL BE STAKED OUT FOR CONSTRUCTION OF THE COMMON DRIVEWAY AND STORMWATER MANAGEMENT POND AND IDENTIFIED WITH TREE PROTECTION FENCING PRIOR TO ISSUANCE OF A BUILDING PERMIT FROM THE TOWN OF NEWBURGH BUILDING DEPARTMENT.
 - PROTECTION FENCING SHALL INCLUDE THE IMMEDIATE LIMITS OF DISTURBANCE ALONG WITH TREES WITHIN 50' OF THE ROAD AND STORMWATER MANAGEMENT POND.
 - TREE PROTECTION FENCING SHALL BE INSTALLED ALONG THE LIMITS OF DISTURBANCE ON THE INDIVIDUAL LOTS AS THEY ARE DEVELOPED.

NOTES:
 LIMITS OF DISTURBANCE IS 3.27 ACRES.
 FOR ALL CONSTRUCTION SPECIFICATIONS REFER TO "NY GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL"

SLOPE STABILIZATION, SEEDING METHOD & MULCHING

SLOPES OR 4:1 OR GREATER (HORIZONTAL : VERTICAL)
 SLOPES SHALL BE HYDROSEEDED WITH THE MIXTURES AND RATES INDICATED IN THE PERMANENT SEEDING MIXTURE SCHEDULE. STRAW OR HAY MULCH SHALL BE APPLIED AT A RATE OF 2,000 LBS./ACRE. STRAW OR HAY MULCH SHALL BE ANCHORED WITH BioD-Mesh60 NETTING AS MANUFACTURED BY ROLANKA INTERNATIONAL OR APPROVED EQUIVALENT. NETTING TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS.

GENTLE SLOPE AND FLAT AREAS
 AREA SHALL BE SEED BY HYDROSEEDING OR BROADCASTING WITH THE MIXTURES AND RATES INDICATED ON THE PERMANENT SEEDING MIXTURE SCHEDULE. HYDROSEEDED AREAS SHALL BE MULCHED WITH A WOOD FIBER MULCH APPLIED AT A RATE OF 500 LBS./ACRE. BROADCAST AREAS SHALL BE MULCHED WITH HAY OR STRAW AT A RATE OF 2,000 LBS./ACRE. AREAS SEEDED BY BROADCASTING SHALL BE LIGHTLY RAKED AND PAVED PRIOR TO PLACING MULCH.

AREAS REMAINING DISTURBED FOR 20 DAYS OR MORE SHALL BE STABILIZED AS FOLLOWS:
 SCARIFY SOILS IF COMPACTION, LIME TO pH OF 6.0 IF REQUIRED, FERTILIZE WITH 600 LBS./ACRE. 5-10-10 FERTILIZER IF REQUIRED. SEED WITH SPECIES AND RATE SHOWN BELOW. MULCH WITH HAY OR STRAW AT A RATE OF 2,000 LBS./ACRE. ANCHOR MULCH WITH NETTING OF WOOD FIBER OR JUTE IF STEEP SLOPE OR HIGH POTENTIAL FOR EROSION.

SPECIES	APPLICATION RATE
RYEGRASS (ANNUAL OR PERENNIAL)	30 LBS./ACRE
(USE WINTER RYE IF SEEDING IN OCT./NOV.)	(0.7 LBS./1,000 SF)

STANDARD COUNTY NOTE:

- NO SITE PREPARATION ION OR CONSTRUCTION, INCLUDING UTILITY CONNECTIONS, SHALL COMMENCE UNTIL A VALID HIGHWAY WORK PERMIT HAS BEEN SECURED FROM THE ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS UNDER SECTION 136 OF THE HIGHWAY LAW

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THIS EROSION CONTROL PLAN SHALL BE USED FOR EROSION CONTROL METHODS AND LOCATIONS ONLY. DO NOT USE THIS PLAN FOR BUILDING, PAVED AREA, UTILITY LOCATIONS, etc.

THE OWNER IS ASSIGNED THE RESPONSIBILITY FOR THE CONSTRUCTION & MAINTENANCE OF THE MEASURES AS DETAILED ON THIS PLAN INCLUDING THE TECHNICAL SPECIFICATIONS ON THIS PLAN

REVISION	BY	DATE	DESCRIPTION
1	MM	10/2/19	9/19/19 PB MTG. & 9/19/19 MHE COMMENTS

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AMENDED SUBDIVISION PLAN FOR
ROCK CUT ESTATES
 ROCK CUT ROAD
 TOWN OF NEWBURCH, ORANGE COUNTY, N.Y.

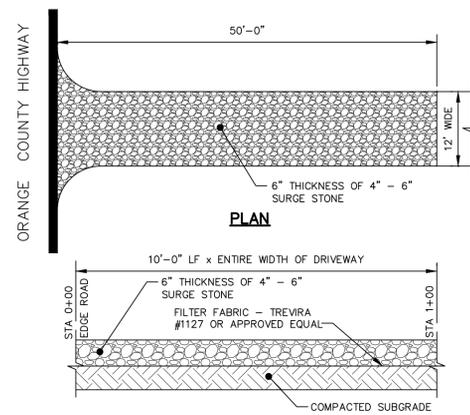
EROSION AND SEDIMENTATION CONTROL PLAN AND NOTES

JOB#: 19-023
 SCALE: AS NOTED
 DATE: 08-19-19
 DRAWN: MM
 CHECKED: MM
 SHEET NO. 07 OF 10

MICHAEL A. MORGANTE, P.E.
 LIC. NO. 78577

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PB# 2019-19

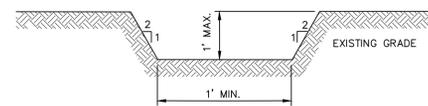


NOTES:

- ENTRANCE SHALL BE MAINTAINED AS CONDITIONS DEMAND TO PREVENT TRACKING OF SEDIMENT INTO PUBLIC RIGHTS OF WAY.
- ALL SEDIMENTATION STRUCTURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS.
- A CRUSHED STONE, VEHICLE WHEEL CLEANING BLANKET WILL BE INSTALLED WHENEVER A CONSTRUCTION ACCESS ROAD INTERSECTS ANY PAVED ROADWAY. SAID BLANKET WILL BE COMPOSED OF 6" DEPTH OF 4"-6" SURGE STONE, WILL BE AT LEAST 45' X 100' AND SHOULD BE PLACED ON COMPACTED SUBGRADE.
- ALL DRIVEWAYS MUST BE STABILIZED WITH 1"-1 1/2" CRUSHED STONE OR SUBBASE DURING CONSTRUCTION.
- PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
- ALL CATCH BASIN INLETS WILL BE PROTECTED WITH CRUSHED STONE OR HAYBALE FILTER.
- ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED, AS REQUIRED, BEFORE DISCHARGE POINTS BECOME OPERATIONAL.

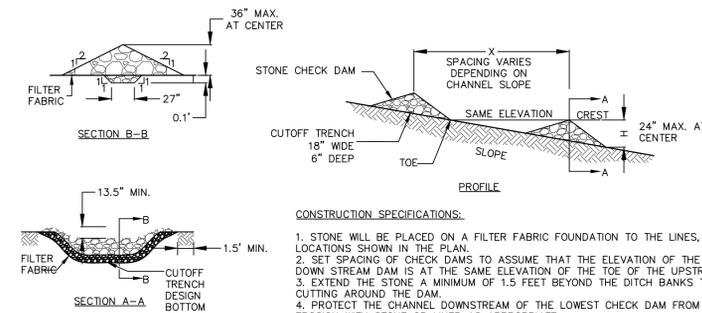
STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE



GRASS SWALE DETAIL

NOT TO SCALE

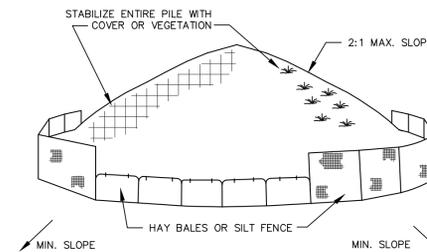


CHECK DAM DETAILS

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS:

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



INSTALLATION NOTES:

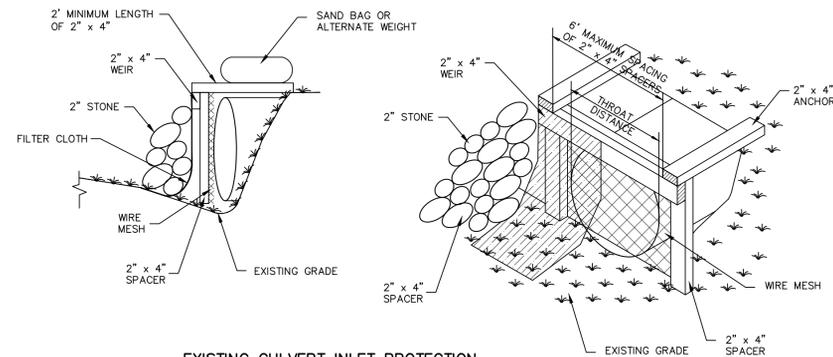
- AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE
- MAXIMUM SLOPE OF STOCKPILES SHALL BE 2:1.
- UPON COMPLETION OF SOIL STOCKPILING EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR HAY BALES, THEN STABILIZED WITH VEGETATION OR COVERED.
- SEE SPECIFICATIONS FOR INSTALLATION OF SILT FENCE.

SOIL STOCKPILE DETAIL

NOT TO SCALE

GRASSED SWALE CONSTRUCTION SPECIFICATIONS

- ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE WATERWAY.
- THE WATERWAY SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN, AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
- FILLS SHALL BE COMPACTED AS NEEDED TO PREVENT UNEQUAL SETTLEMENT THAT WOULD CAUSE DAMAGE IN THE COMPLETE WATERWAY.
- ALL EARTH REMOVED AND NOT NEEDED TO IN CONSTRUCTION SHALL BE SPREAD OR DISPOSED OF SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE WATERWAY.
- STABILIZATION SHALL BE DONE ACCORDING TO THE APPROPRIATE STANDARD AND SPECIFICATIONS FOR THE VEGETATIVE PRACTICES.
 - FOR DESIGN VELOCITIES OF LESS THAN 3.5 FT. PER SEC. SEEDING AND MULCHING MAY BE USED FOR THE ESTABLISHMENT OF THE VEGETATION. IT IS RECOMMENDED THAT, WHEN CONDITIONS PERMIT, TEMPORARY DIVERSIONS OR OTHER MEANS SHOULD BE USED TO PREVENT WATER FROM ENTERING THE WATERWAY DURING THE ESTABLISHMENT OF THE VEGETATION.
 - FOR DESIGN VELOCITIES OF MORE THEN 3.5 FT. PER SEC., THE WATERWAY SHALL BE ESTABLISHED WITH SOD, WITH SEEDING PROTECTED BY JUTE OR EXCELSIOR MATTING OR WITH SEEDING AND MULCHING, INCLUDING TEMPORARY DIVERSION OF THE WATER UNTIL THE VEGETATION IS ESTABLISHED.
 - STRUCTURAL — VEGETATIVE PROTECTION
 - SUBSURFACE DRAIN FOR BASE FLOW SHALL BE CONSTRUCTED AS SHOWN ON THE STANDARD DRAWING AND AS SPECIFIED IN THE STANDARD AND SPECIFICATIONS FOR SUBSURFACE DRAIN.



EXISTING CULVERT INLET PROTECTION

NOT TO SCALE

- FILTER FABRIC SHALL HAVE AN ADS OF 40-85.
- WOODEN FRAME SHALL BE CONSTRUCTED OF 2" x 4" CONSTRUCTION GRADE LUMBER.
- WIRE MESH ACROSS THROAT SHALL BE A CONTINUOUS PIECE 30 INCH MINIMUM WIDTH WITH A LENGTH 4 FEET LONGER THAN THE THROAT IT SHALL BE SHAPED AND SECURELY NAILED TO A 2" x 4" WEIR.
- THE WEIR SHALL BE SECURELY NAILED TO THE 2" x 4" SPACERS 9 INCHES LONG SPACED NO MORE THAN 6 FEET APART
- THE ASSEMBLY SHALL BE PLACED AGAINST THE INLET AND SECURED BY 2" x 4" ANCHORS 2 FEET LONG EXTENDING ACROSS THE TOP OF THE INLET AND HELD IN PLACE BY SANDBAGS OR ALTERNATE WEIGHTS.

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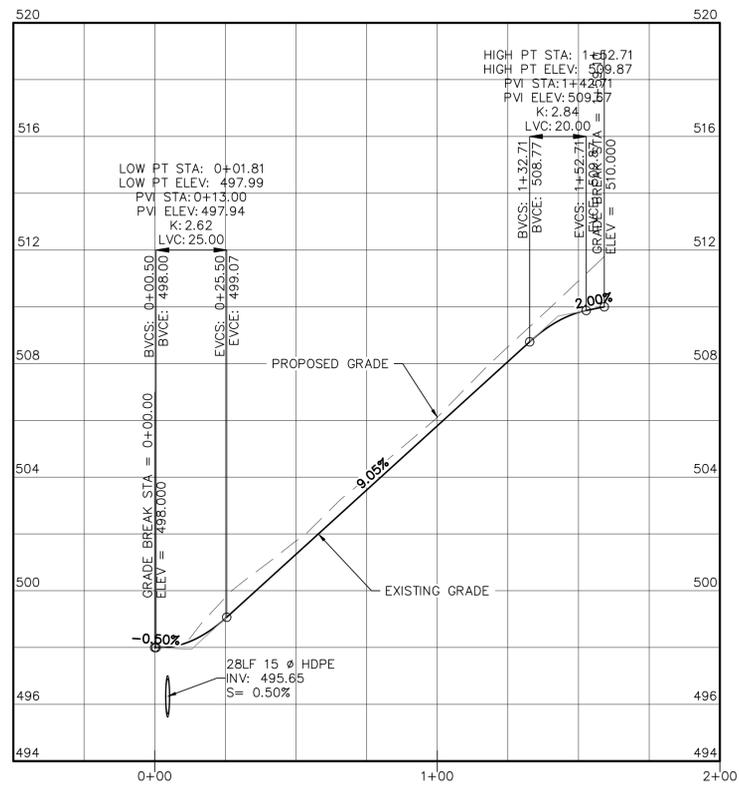
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AMENDED SUBDIVISION PLAN FOR
ROCK CUT ESTATES
ROCK CUT ROAD
TOWN OF NEWBURCH, ORANGE COUNTY, N.Y.

EROSION AND SEDIMENTATION CONTROL DETAILS

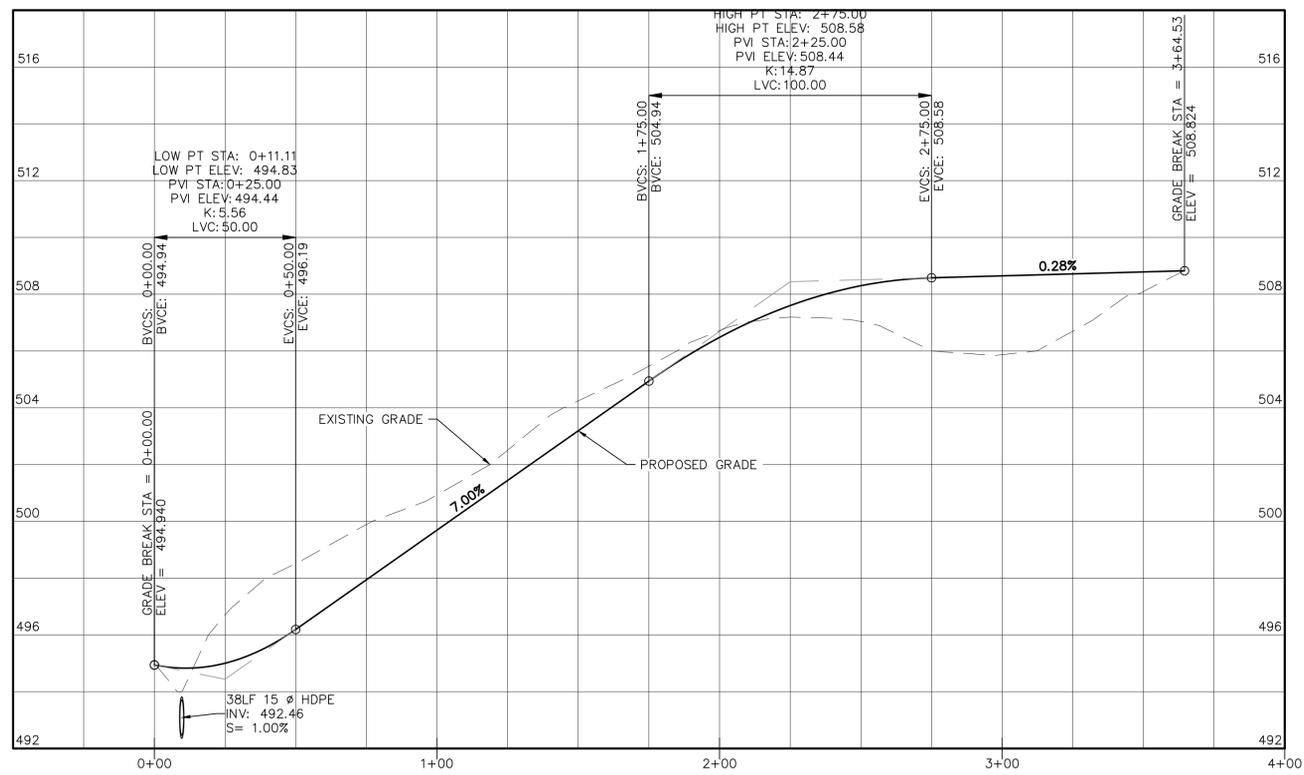
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MICHAEL A. MORGANTE, P.E.
LIC. NO. 78577



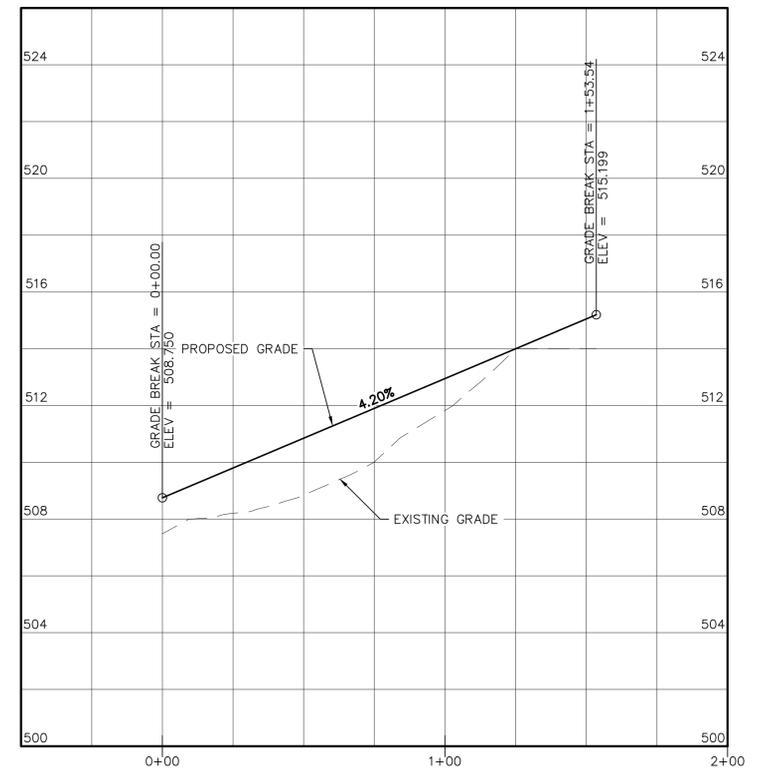
DRIVEWAY LOT 1

HORIZONTAL: 1"=30'
VERTICAL: 1"=3'



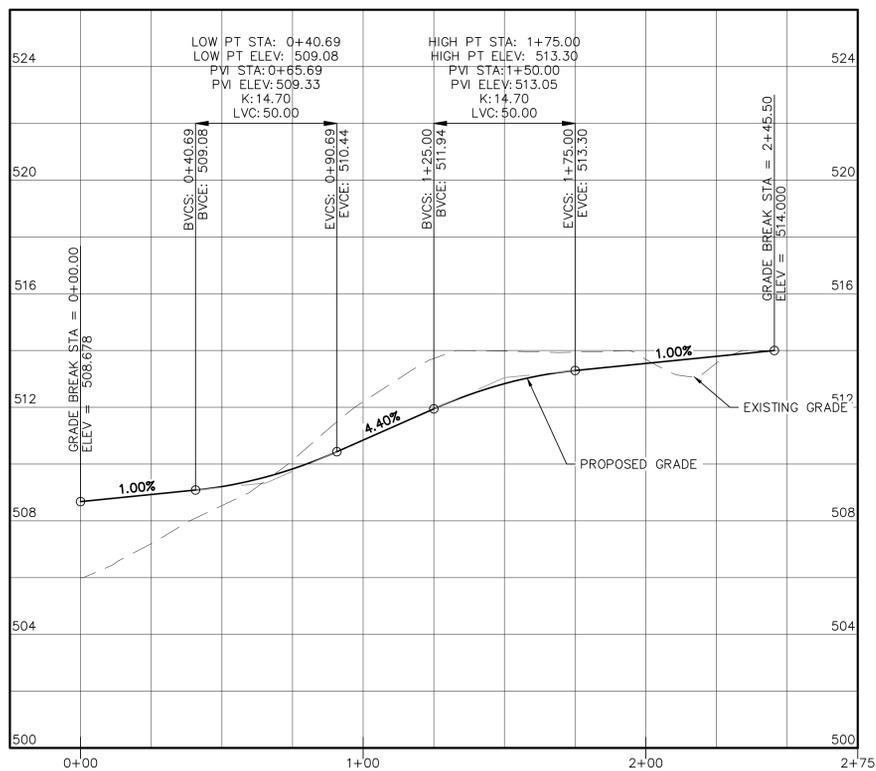
COMMON DRIVEWAY

HORIZONTAL: 1"=30'
VERTICAL: 1"=3'



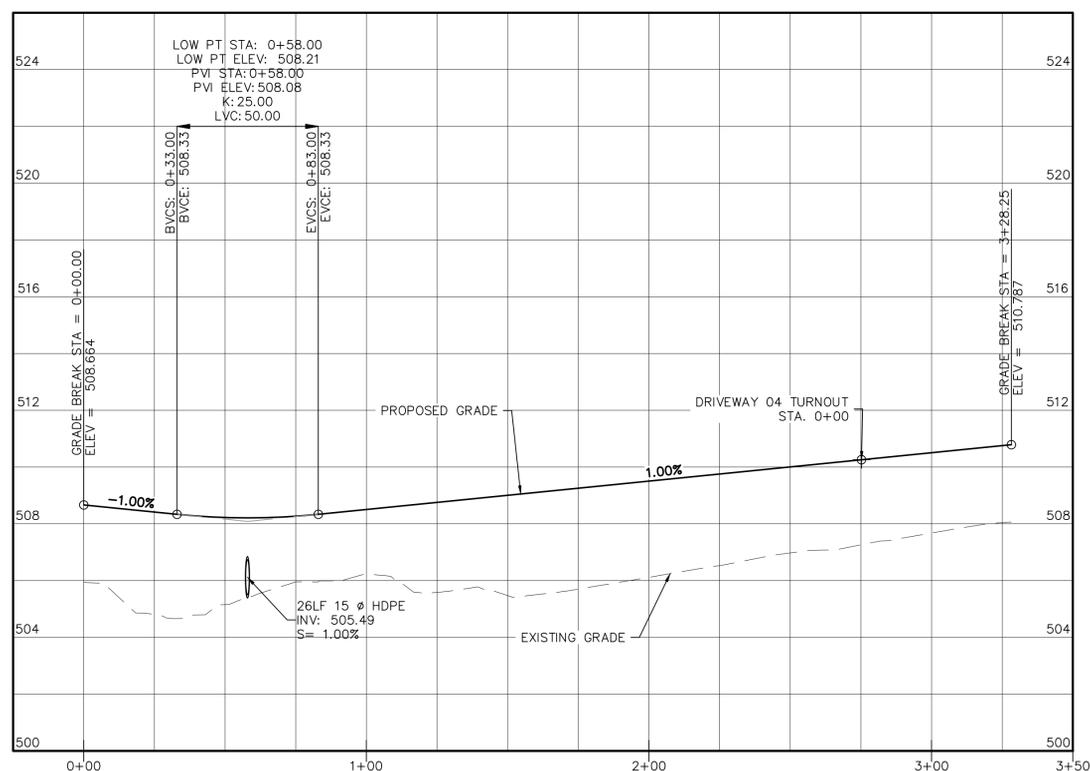
DRIVEWAY LOT 2

HORIZONTAL: 1"=30'
VERTICAL: 1"=3'



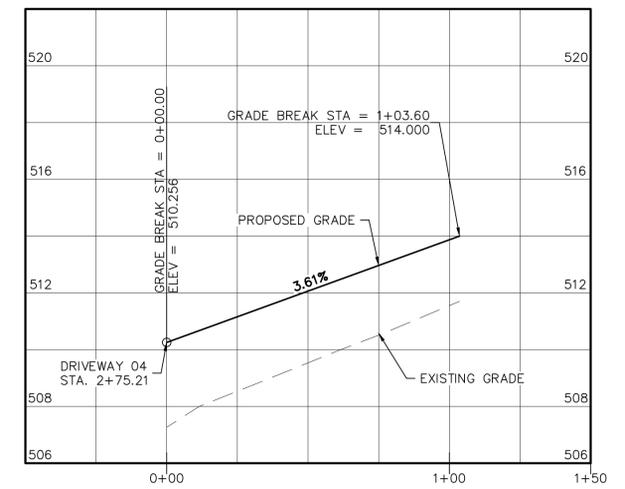
DRIVEWAY LOT 3

HORIZONTAL: 1"=30'
VERTICAL: 1"=3'



DRIVEWAY LOT 4

HORIZONTAL: 1"=30'
VERTICAL: 1"=3'



DRIVEWAY LOT 4 TURNOUT

HORIZONTAL: 1"=30'
VERTICAL: 1"=3'

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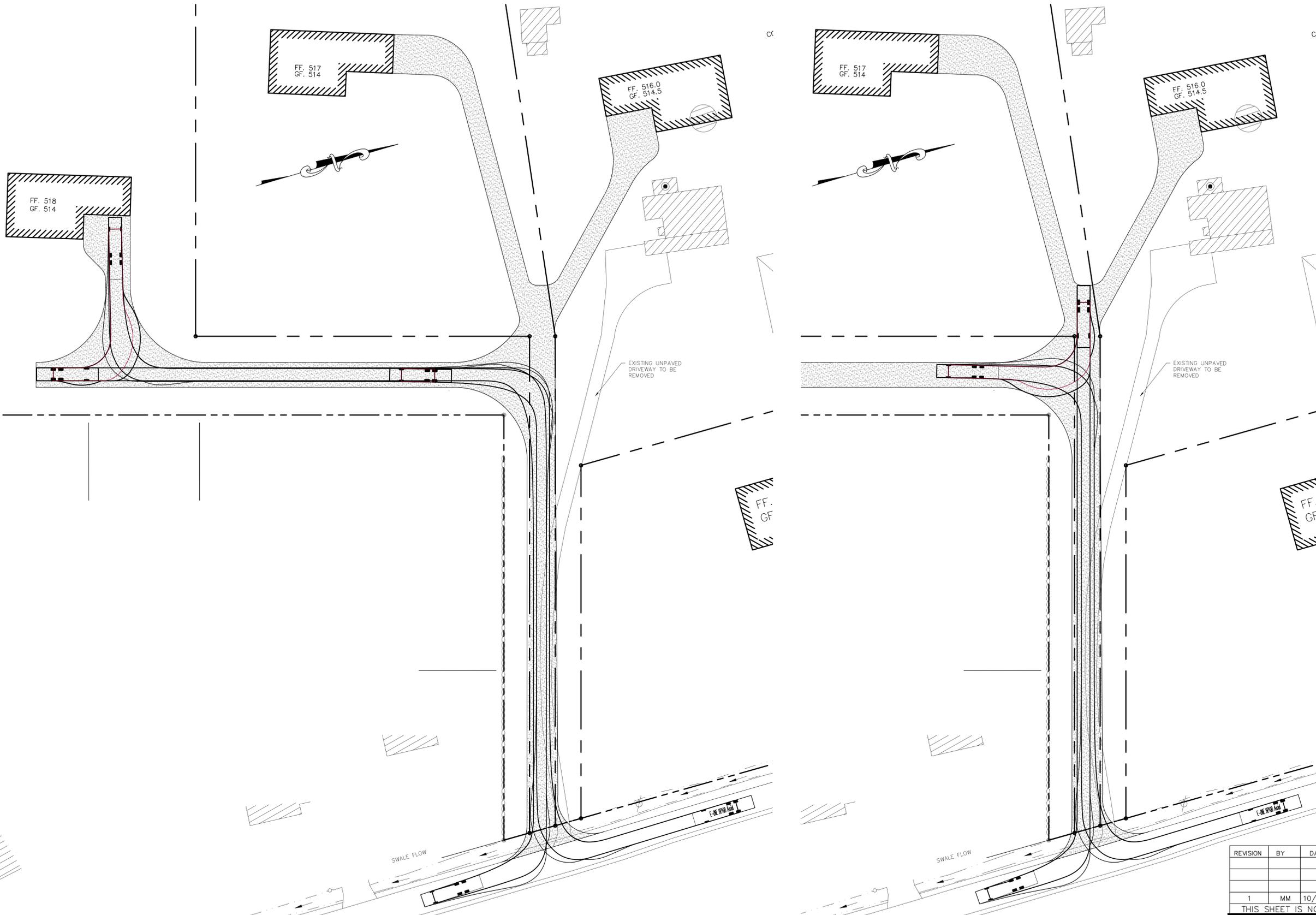
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DRIVEN: MM
CHECKED: MM
SHEET NO. 09 of 10

MICHAEL A. MORGANTE, P.E.
LIC. NO. 78577



TURNING DIAGRAM

SCALE: 1"=30'



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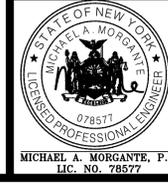
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