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Vice Chairman

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Secretary

TOWN OF CARMEL
ENVIRONMENTAL CONSERVATION BOARD



60 McAlpin Avenue
Mahopac, New York 10541
Tel. (845) 628-1500 - Ext. 190
www.ci.carmel.ny.us

BOARD MEMBERS

Edward Barnett
Vincent Turano
John Starace

ENVIRONMENTAL CONSERVATION BOARD AGENDA

JULY 20, 2017 – 7:30 P.M.

SUBMISSION OF AN APPLICATION OR LETTER OF PERMISSION

<u>APPLICANT</u>	<u>ADDRESS</u>	<u>TAX MAP #</u>	<u>COMMENTS</u>
1. Peckham Materials Corp.	1181 Route 6	65.-1-11	Tree Cutting Permit (360 Trees)
2. Central Hudson Gas & Electric Corp.	340 Bullet Hole Rd	53.17-1-38	Site Plan (Planning Board Referral)

MISCELLANEOUS

3. Minutes – 07/13/17

BRIAN BOWER, CERTIFIED FORESTER

Forestry / Wildlife / Environmental / Wetland Delineation / Planning Services

305 County Route 20 Cairo, New York 12413 Voice: 518-622-9362 Fax: 877-782-8524 email: bbowerforest@verizon.net
Society of American Foresters CF # 229 Massachusetts Licensed Forester # 328 Vermont Licensed Forester # 148.0123746

June 16, 2017

Town Of Carmel
Environmental Conservation Board
60 McAlpin Avenue
Mahopac, NY 10541

RE: Peckham Materials Corp, Commercial thinning; SBL 65-1-11; clarifications

Dear ECB,

Attached you will find the correct volume report. In printing the application material I inadvertently printed an earlier version.

Chris properly referenced the acreage difference between the NYSDEC letter dated May 4, 2017 and the ECB application. As the Certificate of Approval (CofA) is on file w/NYSDEC, that acreage was used for the NYSDEC Jurisdiction Review (see attached CofA). The difference is the buffers, withheld from the commercial thinning.

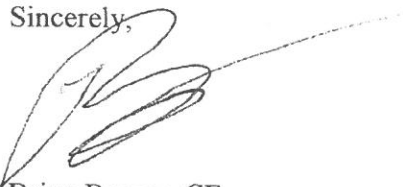
Also attached you will find a slightly revised Overview to meet other concerns made by the ECB. Namely the spill kit contents and location. A map of where it will be kept is attached.

Also attached you will find the deed and an email from Michael Simone, T/Carmel Highway Superintendent stating the road (US Route 6) falls under NYDOT jurisdiction and will not need a permit from his office.

As the property is enrolled in 480a of the Real Property Tax Law, as per 142-8 we would respectfully request a waiver of permit review under 142-8, part G.

Thank you,

Sincerely,



Brian Bower, CF
BB/mm
enc.

VOLUME REPORT

Owner: Peckham (*Carmel*)
 Harvest Area: 41 +/- acres
 Total Timber Volume: 49,771 bf Int. Rule
 Total Timber Trees: 221
 No. Culls: 30
 Volume/acre: 1100 +/- bf

Sawtimber

DBH	RO	BO	CO	WO	SO	BB	SM	Pop
12	56	-	112	-	-	56	-	-
14	78	78	729	78	78	234	183	-
16	318	360	890	212	-	1002	286	-
18	1504	824	3113	728	-	1688	-	184
20	1854	701	2041	1001	405	810	-	234
22	1213	1581	5403	-	211	422	-	-
24+	8575	8081	3522	346	-	130	441	-
TOT.	13598	11625	15810	2365	694	4342	916	421
No/Tr.	52	36	77	14	4	31	5	2
BF/Tree	261	323	205	168	173	140	183	210

Hardwood Pulp/firewood: 42 cords (139 trees, 10-24" DBH—primarily oak/birch).

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Lands and Forests

Certificate Number

CERTIFICATE OF APPROVAL

37-028

Property Owner(s)

Peckham Materials Corp.

c/o Matt Lazzari

20 Haarlem Ave.

White Plains NY 10603-

Telephone #: (914) 949-2000

Original Certification Date 10/11/2016

Date of Last Amendment

Last 5-Year Update

County	Town	Municipal Code	Roll Year	COMMITTED Acres	NON COMMITTED Acres	FULLY ASSESSED COMMITTED Acres	DATE ENDING
PUTNAM	CARMEL	372000	2016	57.00	38.48	0.00	
<u>Tax Map Number</u>	<u>Roll ID</u>	<u>Deed Liber. Page</u>	<u>Total Acres</u>	<u>Committed Acres</u>	<u>F.A.C. Acres</u>	<u>Date Ending F.A.C.</u>	
65-1-11		1869 223	95.48	57	0		
TOTALS		57.00 Committed Acres	38.48 Non-Committed Acres	0.00 F.A.C. Acres	95.48 Total Acres		

This is to certify that pursuant to Section 480-a of the Real Property Tax Law of the State of New York, the eligible tract described above has been accepted for certification by the Department of Environmental Conservation conditioned upon compliance with the work schedule below.

2017 To 2018 Commercial Harvest of 57 Acres in Stand(s) 1&2: Mark Property & Committed Acreage Boundary Lines as Necessary.

2018 To 2019 No Treatments Necessary

2019 To 2020 No Treatments Necessary

2020 To 2021 Re-mark Property & Committed Acreage Boundary Lines as Necessary.

2021 To 2022 Five-Year Update of Management Plan as required.

2022 To 2023 No Treatments Necessary

2023 To 2024 No Treatments Necessary

2024 To 2025 No Treatments Necessary

2025 To 2026 Re-mark Property & Committed Acreage Boundary Lines as Necessary.

2026 To 2027 Five-Year Update of Management Plan as required.

2027 To 2028 No Treatments Necessary

2028 To 2029 No Treatments Necessary

2029 To 2030 No Treatments Necessary

2030 To 2031 Re-mark Property & Committed Acreage Boundary Lines as Necessary.

2031 To 2032 Five-Year Update of Management Plan as required.

ACCEPTED BY REGIONAL FORESTER: Jeff Wiegert

REGION 3 21 SOUTH PUTT CORNERS ROAD, NEW PALTZ, NY 12561

11-Oct-16

DATE

BRIAN BOWER, CERTIFIED FORESTER

Forestry / Wildlife / Environmental / Wetland Delineation / Planning Services

305 County Route 20 Cairo, New York 12413 Voice: 518-622-9362 Fax: 877-782-8524 email: bbowerforest@verizon.net
Society of American Foresters CF # 229 Massachusetts Licensed Forester # 328 Vermont Licensed Forester # 148.0123746

Revised June 16, 2017

Peckham Material Corp. T/Carmel, Putnam County

Project Overview

Forest Management/Past and Present

The proposed timber harvest is called, in forestry terms, a commercial thinning. Like you would pull grass plants growing adjacent to your tomatoes plants, to reduce competition for water, light and nutrients and grow better tomatoes, we do the same thing in a forested environment to grow better and healthier trees.

The typical time between forest treatments (thinning, etc.) is 10-15 years and the last time we treated this forest was in 2001. Back then, we received a "waiver of permit" to harvest approximately 60 trees. That waiver was granted by the ECB as that treatment was below the 5 tree per acre criteria, cited in the T/Carmel law.

In 2016, Peckham Materials, after serious consideration, decide to enroll the property in the NYS Forest Tax Law (aka FTL; actual law is RPTL 480a) and a Forest Management Plan was prepared. The FTL provides for a partial tax exemption and requires a rolling ten year for the exemption. As such, it is a strong open space law and Peckham has made that commitment to maintain, the committed lands, as open space for the next ten years.

As the FTL requires forest treatments, this treatment is required and the *Certificate of Approval* (CofA) and the *Prescription Approval* form DEC are enclosed.

Access/Truck Traffic generated from Thinning

The subject property is located off US Route 6 and is an industrial property currently supplying Hot Mix Asphalt (HMA) to the local area. As such, it has it's own, long standing (industrial use) entrance, for truck ingress/egress.

The commercial thinning will generate approximately 14 truck loads of logs/firewood during the thinning. That duration is estimated at 4 weeks, so it will generate an average of 3+/- loads per week. That is negligible for this facility. As per above, the next treatment on this property will be 10-16 years out.

Trees Marked

All trees have been marked by a professional forester at two points so as to be readily visible. This includes what is referred to a butt mark that will be visible after the tree is removed.

Buffers

Substantial buffers of the boundary lines have been maintained with the minimum buffer being 100' where there are no homes, and 150'+ where there are homes.

Forest/Skid Roads

With the exception of the road from the landing to the existing forest road system, all forest roads are existing.

Water Resources

The harvest area is devoid of any water resources.

Threatened/Endangered Species

After completing the Short Form EAF w/EAF Mapper, Threatened and Endangered Species were noted. This led to a Natural Heritage Review by DEC Forester Robert Mackenzie who directed us to a Jurisdictional Determination (JD) by DEC (all attached).

As per the JD dated May 4, 2017, the commercial thinning will be conducted within the parameters listed.

Watershed Agricultural Council (WAC) and Best Management Practice (BMP) Cost Share

WAC BMP cost share will be employed and has been applied for (application attached). At completion of the sale all roads will be smoothed, leveled and protected with waterbars (a Best Management Practice). Additionally, the landing will be seeded.

Compliance w/Town of Carmel Chapter 142

This sale will be conducted within all requirements of T/Carmel Law Chapter 142.

Fueling and Spill Kit


Fueling for all equipment will be done on the landing.

Spill kit for trucks and heavy equipment will be on site, at the landing location. This kit will exceed forestry minimum requirements for large equipment in forestry applications. **Standard Contents:** 15 Absorbent Pads (Oil, Gas & Diesel) 5 Universal Pads (Antifreeze & Most Other Liquids) 2 3" x 48" Absorbent Socks (Oil, Gas & Diesel) 2 HD Disposal Bags 1 Pair of Nitrile Gloves.

-see attached description; spill kit will be similar or exceed this description

Process of Sale

It would be our desire to bid this sale and only reputable and competent concerns are on our bid list. Requirements of the sale will be a 10% performance bond (which we may waived depending on size of T/Carmel's bond) as well as \$2 million General Liability and Workman's Comp. Insurance certificates are issued prior to the start of activities. Additional requirements will be that a spill kit be on the log landing at all times.

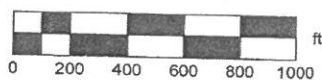


Brian Bower, CF

Stand Acreage

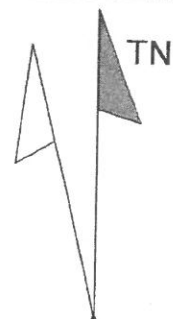
1	45
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Total	57
In/NC	38.48

Scale 1:7,925

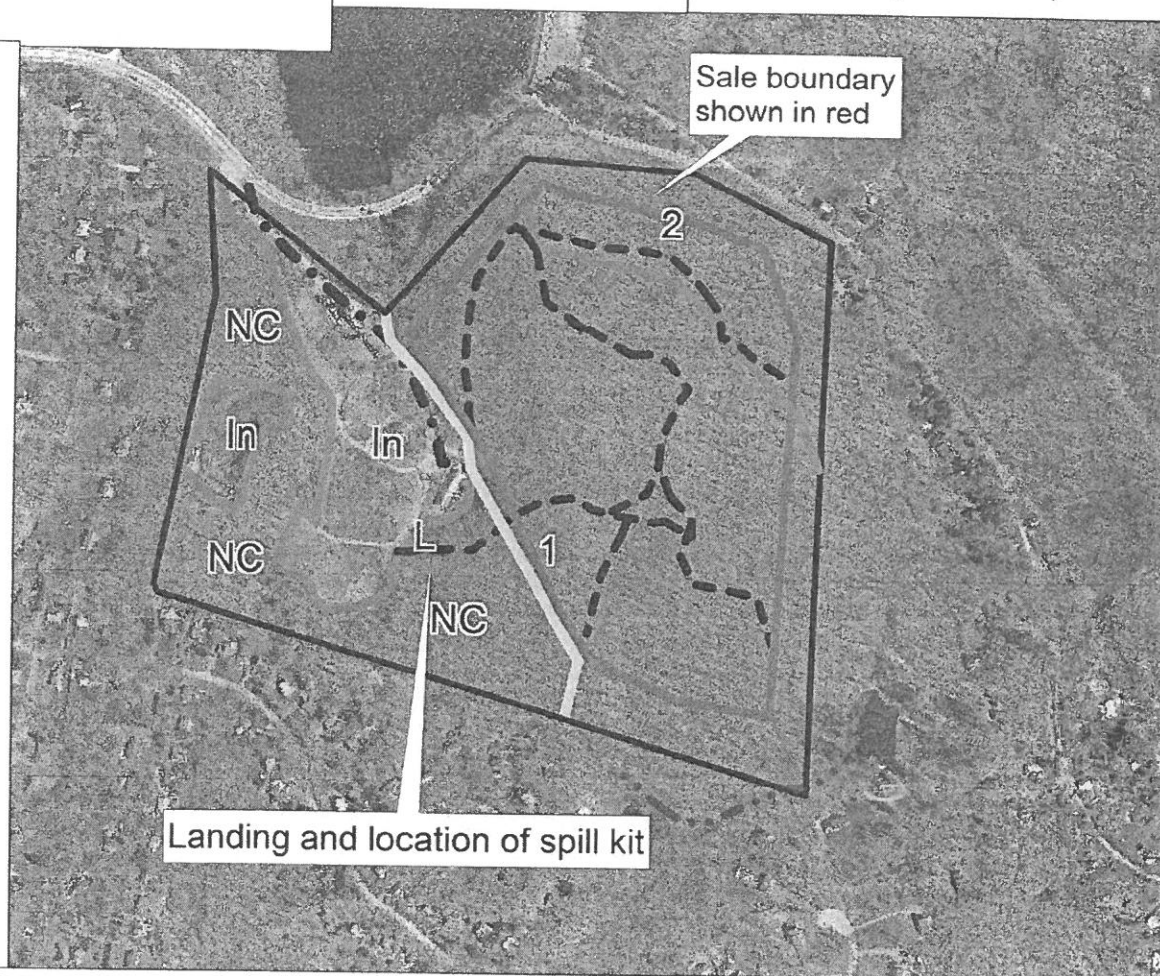


1" = 660.4 ft

Data Zoom 14-0



MN (13.1° W)

FOREST TYPE MAP for the lands of:
Peckham Materials Corporation

Situate in the Town of Carmel, Putnam County, NY

S=Seep 1=Forest Stand

= Non Committed Line

F=Field

Forest Type Boundary=

NC=Non Committed

B=Brush

L=Existing Landing LR=Recommended Landing In=Ineligible

Existing Forest Roads= Haul Road

Recommended Forest Roads=

Existing Culvert= Recommended Culvert= Stream= Waterbar=

Building(s) as Shown

Driveway=

Riparian Area Stands=

Forest Type Map Prepared by Brian Bower, CF

305 County Route 20, Cairo, NY 12413 518-622-9302, Fax: 518-622-0427

email: bbowerforest@verizon.net

All Maps Geo-referenced by Brian Bower

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SPILL RESPONSE KITS: FOREST INDUSTRY

KI-ESK-F1B Basic Equipment Spill Kit in Nylon Bag (Level 1+)



The perfect spill kit for trucks and heavy equipment. This kit is designed to exceed BCTS Forestry minimum requirements for large equipment in forestry applications.

Standard Contents:

- 15 Absorbent Pads (Oil, Gas & Diesel)
- 5 Universal Pads (Antifreeze & Most Other Liquids)
- 2 3" x 48" Absorbent Socks (Oil, Gas & Diesel)
- 2 HD Disposal Bags
- 1 Pair of Nitrile Gloves

Please contact us for further information on this product.

BCHAZMAT

BCHAZMAT Management Ltd.

#6 – 10114 McDonald Park Rd, Sidney, BC V8L 5X8

Tel: 250-656-3382 | 1-877-326-2832

www.bchazmat.com | info@bchazmat.com

Brian Bower

From: "Mike Simone" <msimone@bestweb.net>
Date: Friday, June 16, 2017 10:26 AM
To: "Brian Bower" <bbowerforest@verizon.net>
Cc: <msimone@bestweb.net>
Subject: RE: Peckham Materials US Route 6

Hi Brian yes as you stated the roads fall under the jurisdiction of NYS Dot and will not require any permit from this office.

From: Brian Bower [mailto:bbowerforest@verizon.net]
Sent: Friday, June 16, 2017 9:44 AM
To: msimone@bestweb.net
Cc: Christopher Prentis; Lou Merkle; Matt Lazzari
Subject: Peckham Materials US Route 6

Hi Michael,

We're before the the T/Carmel Env. Con. Board for a timber harvesting permit for the land of Peckham Material located off US Route 6. They have asked, that we have you review the entrance, to make sure it is a legitimate entrance and can handle the additional 17 truck loads that will be generated by the commercial thinning of these lands (it's a smaller sale). The log trucks will enter and exit at the main entrance.

They also want to know what bond you might require and it is our hope that given this is a US/NYS route, that it will be none. Any log truck entering and leaving the site would be only using US/NYS roads to and from it destination (they will head to I 84).

Thanks Michael and have a great weekend,

Brian

PS. Estimate an email back to me will be sufficient for the ECB.

Brian Bower, CF
305 CR 20
Cairo, NY 12413
518-622-9362
518-821-6156 (cell)
877-782-8524 (fax)

6/16/2017

**WARRANTY DEED WITH FULL COVENANTS
(INDIVIDUAL AND CORPORATION)**

FORM 8003 (short version), FORM 8008 (long version)

CAUTION: THIS AGREEMENT SHOULD BE PREPARED BY AN ATTORNEY AND REVIEWED BY ATTORNEYS FOR SELLER AND PURCHASER BEFORE SIGNING.

THIS INDENTURE, made January 25, 2011,

between,
PATTERSON BLACKTOP CORP., a New York corporation which was dissolved on February 22, 2008, having an address at 20 Harlem Avenue, White Plains, New York 10603

party of the first part, and

PECKHAM MATERIALS CORP., a New York corporation, having an address at 20 Harlem Avenue, White Plains, New York 10603

party of the second part,

WITNESSETH, that the party of the first part, in consideration of Ten dollars, lawful money of the United States, paid by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or successors and assigns of the party of the second part forever,

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the Town of Carmel, County of Putnam, State of New York, more particularly described on Exhibit "A" annexed hereto.

BEING and intended to be the same premises conveyed by HARLEM VALLEY MATERIALS, INC. to PATTERSON BLACKTOP CORP. by deed dated April 20, 1990 and recorded in the Putnam County Clerk's Office on April 20, 1990 in Liber 1090 of Deeds at Page 097.

This deed is executed in the course of winding up the affairs of Patterson Blacktop Corp.

TOGETHER with all right, title and interest, if any, of the party of the first part in and to any streets and roads abutting the above described premises to the center lines thereof,

TOGETHER with the appurtenances and all the estate and rights of the party of the first part in and to said premises,

TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

AND the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the costs of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose.

AND the party of the first part covenants as follows:

FIRST. That said party of the first part is seized of the said premises in fee simple, and has good right to convey the same;

SECOND. That the party of the second part shall quietly enjoy the said premises;

THIRD. That the said premises are free from encumbrances, except as aforesaid;

FOURTH. That the party of the first part will execute or procure any further necessary assurance of the title to said premises;

FIFTH. That said party of the first part will forever warrant the title to said premises.

The word "party" shall be construed as if it read "parties" whenever the sense of this indenture so requires.

IN WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above written.

SCHEDULE "A"

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the Town of Carmel, County of Putnam and State of New York and being more particularly bounded and described as follows:

BEGINNING at a point on the southerly side of Drew Ville Road the adjoining lands now or formerly of Sanchez;

RUNNING THENCE along said lands now or formerly of Sanchez, lands now or formerly of Strathatos, land now or formerly of Leavitt, and Lot No 2 as shown on filed Map No. 1834 entitled "Subdivision Plat... Pinello" and along the mean center line of a stone wall, the following courses and distances:

SOUTH 15 degrees 36 minutes 20 seconds West 170.56 feet;
SOUTH 15 degrees 22 minutes West 106.05 feet;
SOUTH 12 degrees 12 minutes 10 seconds West 37.57 feet;
SOUTH 12 degrees 43 minutes 10 seconds West 160.37 feet;
SOUTH 14 degrees 36 minutes 20 seconds West 247.39 feet;
SOUTH 14 degrees 23 minutes 20 seconds West 90.87 feet;
SOUTH 12 degrees 56 minutes West 190.64 feet;
SOUTH 14 degrees 04 minutes 10 seconds West 89.34 feet;
SOUTH 18 degrees 04 minutes 50 seconds West 79.97 feet;
SOUTH 17 degrees 05 minutes 20 seconds West 93.17 feet;
SOUTH 13 degrees 42 minutes 50 seconds West 318.81 feet;
SOUTH 15 degrees 26 minutes 40 seconds West 114.99 feet;
SOUTH 16 degrees 52 minutes 40 seconds West 216.60 feet and running across a brook, South 15 degrees 44 minutes 50 seconds West 153.73 feet to a point;

THENCE continuing westerly along the northerly line Lot No. 2 on filed Map No. 1834 entitled "Subdivision Plat... Pinello, North 60 degrees 09 minutes 50 seconds West 245.32 feet to a point;

RUNNING THENCE along the northerly line of Lot No. 2 and Lot No. 1 on filed Map No. 1438 of "Inga Acres", Lot No. 35, Lot No. 34, Lot No. 33, Lot No. 32 as shown on filed Map 724-D entitled "Lake Casse View", Lot No. 14, Lot No. 13, Lot No. 12, Lot No. 11, Lot No. 10, Lot No. 9, Lot No. 8, Lot No. 7 as shown on filed Map No. 724-C entitled "Lake Casse View" the following courses and distances:

NORTH 59 degrees 02 minutes 30 seconds West 59.39 feet;
NORTH 64 degrees 13 minutes 20 seconds West 39.00 feet;
NORTH 59 degrees 15 minutes 30 seconds West 198.60 feet;
NORTH 58 degrees 27 minutes 30 seconds West 128.52 feet;
NORTH 54 degrees 53 minutes 20 seconds West 142.54 feet;
NORTH 58 degrees 51 minutes 30 seconds West 145.42 feet;
NORTH 58 degrees 20 minutes 10 seconds West 142.57 feet;
NORTH 62 degrees 00 minutes 40 seconds West 165.49 feet;
NORTH 60 degrees 25 minutes 30 seconds West 147.11 feet;
NORTH 59 degrees 49 minutes 10 seconds West 220.27 feet;
NORTH 62 degrees 13 minutes 20 seconds West 68.26 feet;
NORTH 48 degrees 37 minutes 10 seconds West 11.90 feet;

NORTH 67 degrees 35 minutes 35 seconds West 17.21 feet;

NORTH 59 degrees 14 minutes 10 seconds West 49.42 feet;

NORTH 74 degrees 25 minutes 50 seconds West 14.87 feet;

NORTH 57 degrees 05 minutes 50 seconds West 135.73 feet;

NORTH 58 degrees 56 minutes West 225.56 feet;

NORTH 59 degrees 50 minutes 30 seconds West 154.09 feet;

NORTH 54 degrees 23 minutes 30 seconds West 43.54 feet;

NORTH 59 degrees 40 minutes 30 seconds West 76.81 feet;

NORTH 58 degrees 21 minutes 10 seconds West 58.74 feet to a point and lands now or formerly of Luc;

RUNNING THENCE along the easterly side of land now or formerly of Luc, Lands now or formerly of Flynn, Lands now or formerly of Ciulla, Lands now or formerly of Yablonsky, Lands now or formerly of Ruocco, Lands now or formerly of Blair and Lands now or formerly of Gentile, the following courses and distances:

NORTH 27 degrees 55 minutes 00 seconds East 193.98 feet;

NORTH 27 degrees 36 minutes 10 seconds East 193.30 feet;

NORTH 20 degrees 42 minutes 40 seconds East 61.13 feet;

NORTH 18 degrees 29 minutes 20 seconds East 173.37 feet;

NORTH 31 degrees 43 minutes 40 seconds East 86.94 feet;

NORTH 22 degrees 53 minutes 10 seconds East 89.26 feet;

NORTH 25 degrees 34 minutes 10 seconds East 127.74 feet;

NORTH 42 degrees 16 minutes 40 seconds West 14.89 feet;

NORTH 8 degrees 30 minutes 40 seconds East 410.03 feet to the southerly side of U.S. Route 6;

RUNNING THENCE along said southerly side of U.S. Route 6 and along lands of the City of New York the following course and distance:

SOUTH 37 degrees 03 minutes 10 seconds East 812.65 feet to a point;

THENCE continuing along lands of the City of New York:

NORTH 52 degrees 52 minutes 20 seconds East 773.17 feet and;

SOUTH 72 degrees 44 minutes 00 seconds East 774.62 feet to the southerly side of Drew Ville Road;

RUNNING THENCE along the southerly side of said Drew Ville Road the following courses and distances:

SOUTH 43 degrees 37 minutes 50 seconds East 52.35 feet;

SOUTH 43 degrees 54 minutes 05 seconds East 94.92 feet;

SOUTH 45 degrees 24 minutes 00 seconds East 104.32 feet;

SOUTH 49 degrees 15 minutes 10 seconds East 66.32 feet; and

SOUTH 46 degrees 23 minutes 15 seconds East 95.43 feet to the point and place of BEGINNING.

IN PRESENCE OF:

Michelle Zottiselli

Patterson Blacktop Corp.

Richard E. Antes

By: Richard E. Antes
Its Chief Financial Officer

STATE OF NEW YORK)

COUNTY OF Westchester ss.:

On the 25th day of January in the year 2011, before me, the undersigned, personally appeared Richard E. Antes, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is(are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Donna Marques
NOTARY PUBLIC

DONNA MARQUES
NOTARY PUBLIC STATE OF NEW YORK
QUALIFIED IN WESTCHESTER COUNTY
NO. 4970177
COMMISSION EXPIRES 08/08/ 14

Town of Carmel
County of Putnam
65.-1-11

Please record and return to:

DANIELS AND PORCO, LLP
517 Route 22
P. O. Box 668
Pawling, NY 12564

shown in red



NetLink

ImageReg

Draw

Profile

3-D

Route

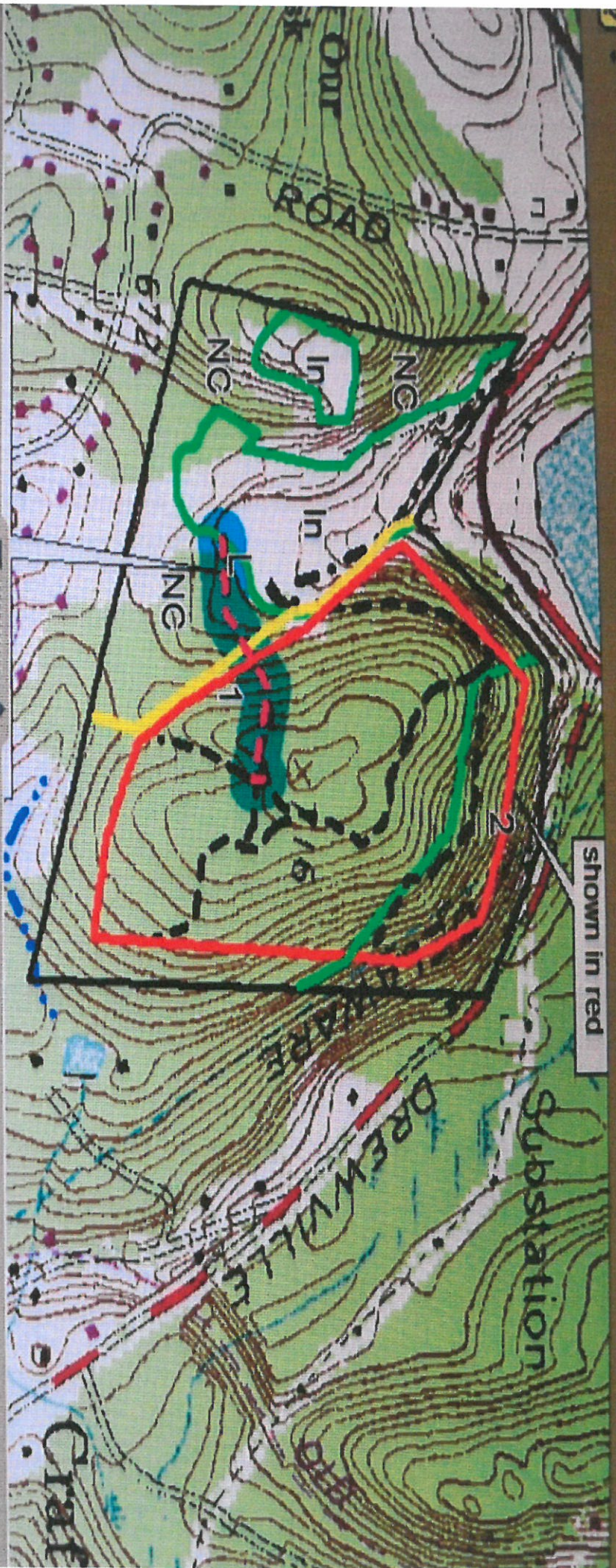
GPS

Voice

Handheld Export



Lin Dist:	830.8 ft
Terr Dist:	861.6 ft
Climb Dist:	5.7 ft
Desc Dist:	855.9 ft
Elev Gain:	-208.1 ft
Climb Elev:	4.7 ft
Desc Elev:	212.8 ft
Avg Grade:	26
Min. Elev:	493.5 ft



Phone Info NetLink ImageReg Draw Profile 3-D Route GPS Voice

Handheld Export



Lin Dist:	920.2 ft
Terr Dist:	926.2 ft
Climb Dist:	794.7 ft
Desc Dist:	131.5 ft
Elev Gain:	78.1 ft
Climb Elev:	83.4 ft
Desc Elev:	5.3 ft
Avg Grade:	9
Min Elev:	630.0 ft

240 ft 360 ft 480 ft 600 ft 720 ft 840 ft 926.2 ft

Show Text

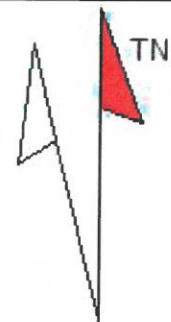
More

Stand Acreage

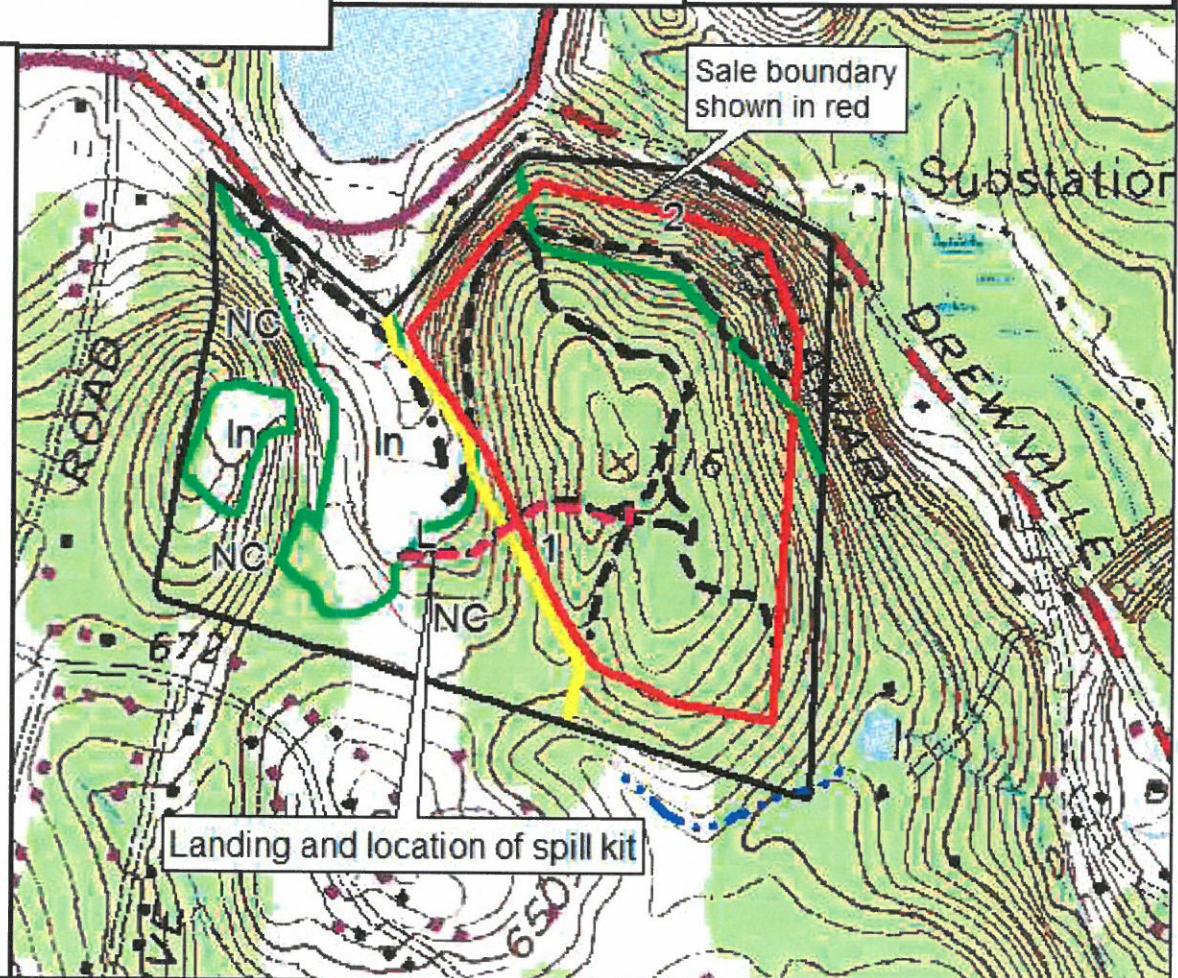
1	45
2	12
<hr/>	
Total	57
In/NC	38.48



Data Zoom 14-0



MN (13.1° W)



FOREST TYPE MAP for the lands of
Rockland State Park, Corporation

Situate in the Town of, Orange County, NY

S=Scrub 1=Forest Stand Non-Committed Land NC=Non-Committed
 Forest Type Boundary L=Existing Landings LK=Recommended Landings I=Intigible B=Brush
 Existing Forest Roads Recommended Forest Roads H=Hill Road
 Existing Culvert Recommended Culvert Stream Waterbar
 Building(s) as shown

Driveway Riparian Area Stand

Forest Type Map Prepared by Brian Rowan, CIP
 300 County Route 90, Canaan, NY 12919-0000, Tel: 518-832-0100, Fax: 518-832-0100
 email: brian@delorme.com
 All Maps files referenced by Brian Rowan

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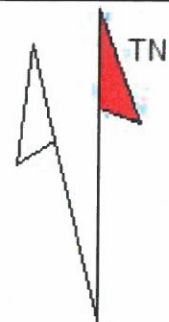
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Stand Acreage

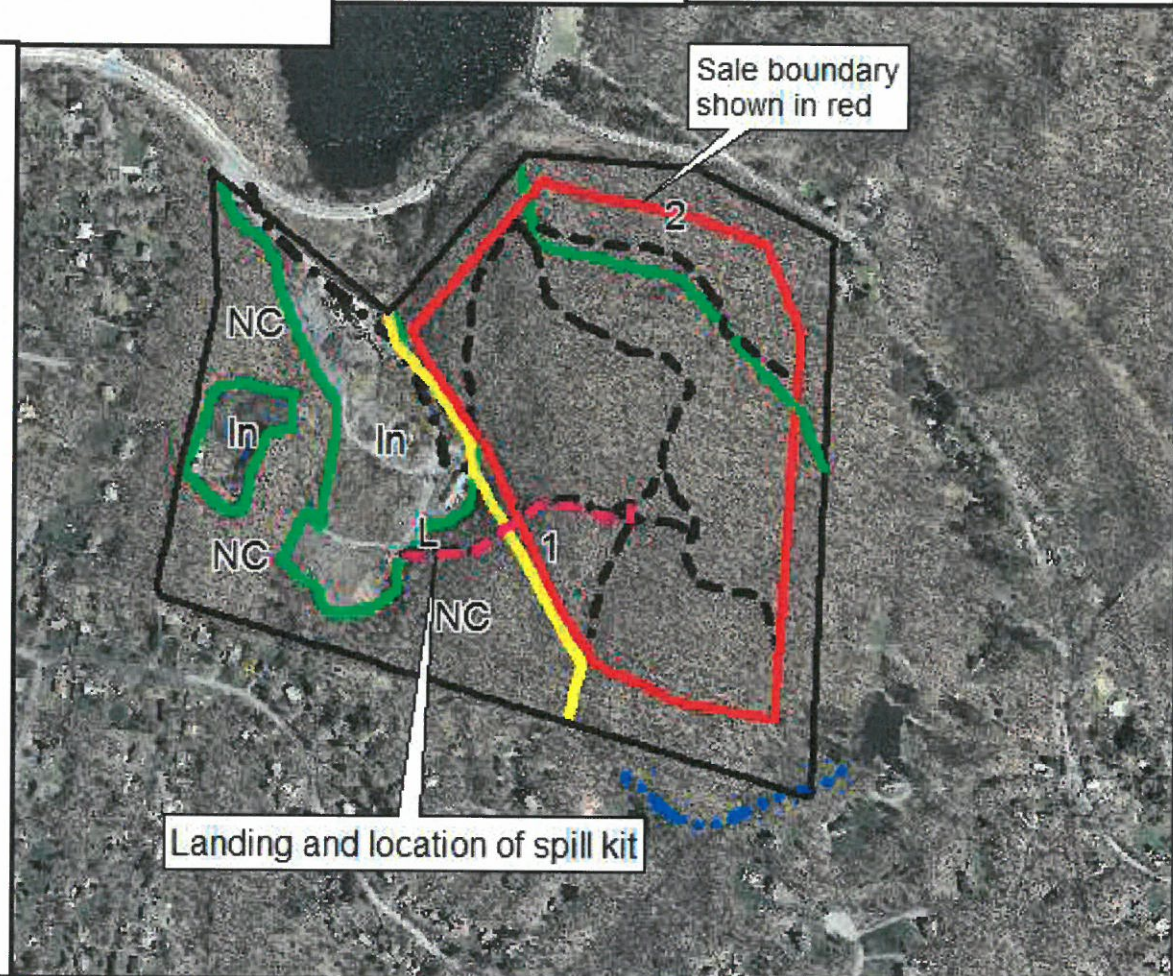
1	45
2	12
<hr/>	
Total	57
In/NC	38.48



Data Zoom 14-0



MN (13.1° W)

FOREST TYPE MAP for the lands of
Rockham Materials Corporation

Situated in the Town of, Orleans County, NY

S=Scrub 1=Forest Stand Non-Committed Land 1=Field
 Forest Type or Transition NC=Non-Committed
 L=Existing Landings LK=Recommended Landings I=Indigible B=Brush
 Existing Forest Roads Recommended Forest Roads Road Road
 Existing Culvert Recommended Culvert Stream Waterbar
 Building(s) as shown

DeLormé Riparian Area Stand=-----

Forest Type Map Prepared by Brian Bowen, GIS

400 County Route 90, Union, NY 12084-0000, Tel: 518-622-0100, Fax: 518-622-0100

e-mail: bbowen@rockham.com

All Maps Cites referenced by Brian Bowen

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June 13th, 2017
Updated July 14, 2017
Project Narrative

Project: Site Plan Application for Pressure Regulator Station at 340 Bullet Hole Road

Applicant: Central Hudson Gas & Electric Corp.

Engineers: Brett Reynolds P.E. and Daniel Farnan P.E. – Maser Consulting P.A.

Land Owner: Central Hudson Gas & Electric Corp.

Location: 340 Bullet Hole Road (Tax Map # 53.017-1-38)
Town of Carmel, New York

Project Background:

Central Hudson Gas & Electric Corp. (or “Central Hudson”) previously identified a need to reinforce the gas system on the Carmel-Mahopac Gas Distribution Line (or SM Line), based upon current system operating pressure and expected load growth for the affected area. The SM Line is a 120 psig system that supplies natural gas to the towns of Carmel and Mahopac. Studies were conducted by Central Hudson to understand the best potential reinforcement solutions for the SM Line. Central Hudson concluded that a second gas distribution line should be installed as reinforcement to the SM Line. The resulting project is the *SM Line: Gas Distribution and Reinforcement Project*. The project will include a gas regulator station to be installed at 340 Bullet Hole Rd., sited on property owned by Central Hudson, and connected to the existing 'MP' gas transmission line owned by Central Hudson (located on same property).

Pressure Regulator Station:

The proposed pressure regulator station is a key component of the *SM Line: Gas Distribution and Reinforcement Project*. The station has been sited next to an existing Gas Transmission Line on Central Hudson property located at 340 Bullet Hole Road. The station requires Site approval from the Town's Planning Board. The project was before the Planning Board on June 28, 2017 to begin this process. The Planning Board declared itself Lead Agency for SEQRA review and referred the project to the ECB.

The station itself will consist of both above and underground equipment. Ground covers for the station will be imported gravel and the station will be enclosed with a 6-ft high chain link fence with barbed wire top (total 7-ft tall). A gravel access road with turnaround will be installed for periodic inspection and maintenance. No full or part-time employees would man the station, and no parking spaces have been designed. A combination of existing wooded areas and proposed landscaping will help screen the site from view.



SM Line: Gas Distribution and Reinforcement Project:

This project includes a traverse of ~3.9 miles of 10" steel gas distribution main to be installed for reinforcement from the gas regulator station to a tiepoint with the existing 'SM' Gas Distribution Line near State Route 6. The reinforcement gas main, which would be installed within the road shoulder ('turf') and road pavement, would traverse from Bullet Hole Rd. east to intersection with Hill St. (County Route 32); then north on Hill St. which becomes Long Pond Rd. (County Route 32) to the intersection of Wixon Pond Rd.; then southeasterly along Wixon Pond Rd. to the intersection of Cooney Rd.; then continuing along Cooney Rd. and terminating adjacent to State Route 6. The Route Design Plans have been included in this submission for reference.

SEQRA:

On February 27, 2017 a pre-application meeting was held at the town offices with the Town Planner, Town Engineer, members of Central Hudson's design team and members of Maser Consulting's design team. During this meeting it was determined the entire *SM Line: Gas Distribution and Reinforcement Project* would be presented to the Town Planning Board for SEQRA review. The Pressure Regulator Station at 340 Bullet Hole Road would be subject to Site Plan review.

The attached Environmental Assessment Form (EAF) has been completed for the whole *SM Line: Gas Distribution and Reinforcement Project*. The Route Design Plans have been included in this submission for reference.

NYSDEC & U.S. Army Corps. Reviews (Updated July 14th, 2017):

In July, Central Hudson began coordination with the NYSDEC to schedule a pre-application meeting in anticipation of submitting the Joint Application for permitting. The project will traverse through NYSDEC 100' buffers with approximately 7,526 L.F. of new distribution main, disturbing approximately 22,580 sq. ft. of NYSDEC buffer area.

In addition the project will traverse through Town regulated 100' buffers (adjacent to US Army Corps Wetlands) with approximately 2123 L.F. of new distribution main, disturbing approximately 6,371 sq. ft. of Town regulated buffer area. A total of 28,951 sq. ft. of wetland buffers will be disturbed. There is 0 sq. ft. disturbance to wetlands proposed for this project.

We anticipate this project will require no permits from the US Army Corps of Engineers, and at minimum a permit from NYSDEC for work within their 100' buffers.

NYC DEP Reviews:

In April, Maser Consulting submitted the *SM Line: Gas Distribution and Reinforcement Project* for NYCDEP review. NYCDEP's initial review indicates this project is under their 2-acre disturbance threshold and will not require a SWPPP that conforms to their regulations. NYCDEP has requested data on the locations of staging areas to be utilized for this project. Central Hudson is pursuing leases for staging areas and will return this information to NYCDEP when ready. At such time we expect NYCDEP to issue a letter of review findings. That letter will be forwarded to the Town once received.



Stormwater Pollution Prevention Plan (Updated July 14th, 2017):

A Stormwater Pollution Prevention Plan (SWPPP) has been developed for the project. The SWPPP is currently under review with the Town of Carmel's Engineer/MS4 Officer. At the Town's June 28th Planning Board meeting the Town Engineer provided comments to the SWPPP which will be addressed and resubmitted. A SWPPP document has been provided with this submittal for ECB review.

Sincerely,

MASER CONSULTING P.A.

A handwritten signature in blue ink, appearing to read 'Daniel Farnan', is written over a horizontal line.

Daniel Farnan, PE, CPESC, CPSWQ
Senior Engineer

ROBERT LAGA
Chairman

NICHOLAS FANNIN
Vice-Chairman

ROSE TROMBETTA
Secretary

TOWN OF CARMEL
ENVIRONMENTAL CONSERVATION BOARD



60 McAlpin Avenue
Mahopac, New York 10541
Tel. (845) 628-1500 - Ext. 190
www.ci.carmel.ny.us

BOARD MEMBERS

Edward Barnett
Vincent Turano
John Starace

APPLICATION FOR WETLAND PERMIT OR LETTER OF PERMISSION

Name of Applicant: Central Hudson Gas & Electric Corp. - Brian Dimisko

Address of Applicant: 284 South Avenue

Email: BD@misko@cenhud.com

Telephone# 845-486-5791

Name and Address of Owner if different from Applicant:

Property Address: 340 Bullet Hole Road and various roadways *

Tax Map # 53.017-1-38

Agency Submitting Application if Applicable: N/A

Location of Wetland: Along Roadways *

Size of Work Section & Specific Location: Approximately 20,400+- Linear Feet of new Gas Main, 28,951 sf of buffer disturbance

Will Project Utilize State Owned Lands? If Yes, Specify: No

Type and extent of work (feet of new channel, yards of material to be removed, draining, dredging, filling, etc). A brief description of the regulated activity (attach supporting details).

A traverse of 3.9 miles of 10" steel gas distribution main to be installed from 340 Bullet Hole Road, through various roadways, and ending at NYS Route 6. A Gas Pressure Regulator Station will be installed at 340 Bullet Hole Road. Please see attached Project Narrative for more information.

Proposed Start Date: March 2018

Anticipated Completion Date: Fall 2018

Fee Paid \$ \$1000.00

CERTIFICATION

I hereby affirm under penalty of perjury that information provided on this form is true to the best of my knowledge and belief, false statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. As a condition to the issuance of a permit, the applicant accepts full legal responsibility for all damage, direct or indirect, or whatever nature, and by whomever suffered, arising out of the project described here-in and agrees to indemnify and save harmless the Town of Carmel from suits, actions, damages and costs of every name and description resulting from the said project.

SIGNATURE

7-15-17

DATE

* Please see Attached Project Narrative

Short Environmental Assessment Form

Part 1 - Project Information

Instructions for Completing

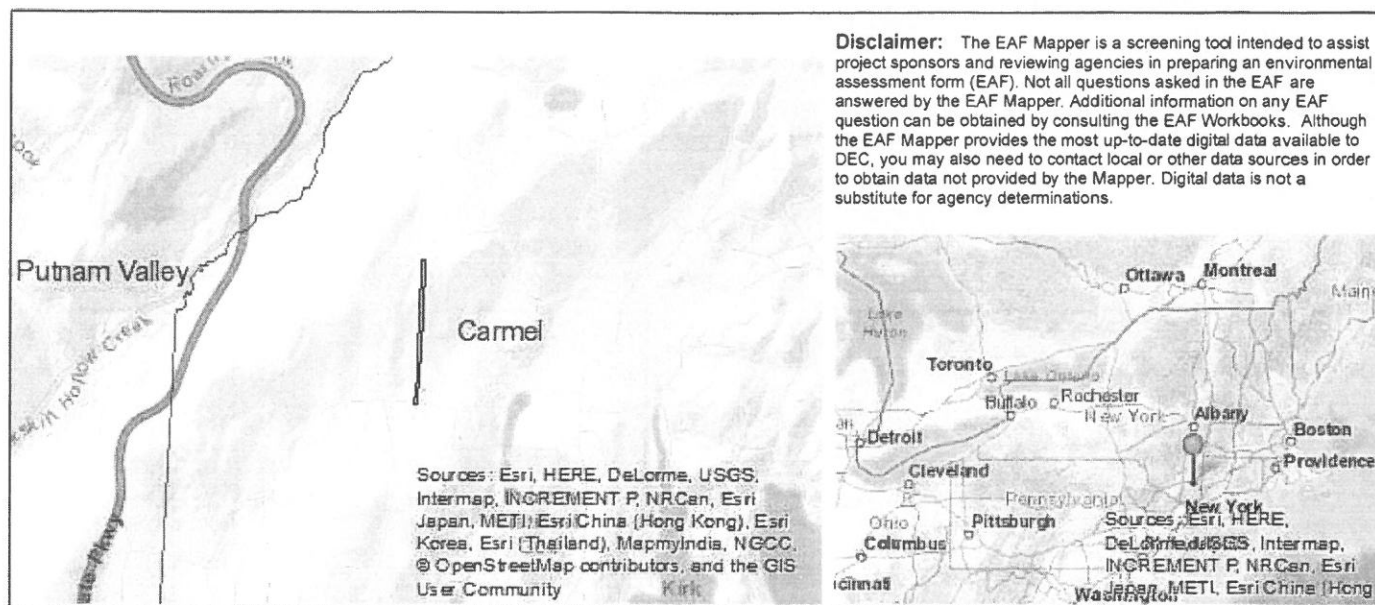
Part 1 - Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 - Project and Sponsor Information							
Name of Action or Project: S-M Gas Line Reinforcement Project							
Project Location (describe, and attach a location map): 340 Bullet Hole Road and ROW: Bullet Hole Road, Hill Street, Long Pond Road, Wixon Pond Road, & Cooney Road							
Brief Description of Proposed Action: Installation of a new gas regulator station at 340 Bullet Hole Road, property owned by Central Hudson Gas & Electric Corp, and connected to the existing 'MP' gas transmission line. Project also includes 3.9 miles of new gas distribution main to be installed for reinforcement from the new gas regulator station to a tie-point with the existing 'SM' Gas Line near State Route 6. The reinforcement gas main would traverse from Bullet Hole Road east to the intersection with County Route 32; then County Route 32 north to the intersection of Wixon Pond Road; then Wixon Pond Road to intersection of Cooney Road; then continuing along Cooney Road and terminating at the intersection of State Route 6.							
Name of Applicant or Sponsor: Central Hudson Gas & Electric Corp - Brian Dimisko		Telephone: 845-486-5791 E-Mail: BDimisko@cenhud.com					
Address: 284 South Avenue							
City/PO: Poughkeepsie		State: NY	Zip Code: 12601				
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.			<table border="1" style="width: 100%; text-align: center;"> <tr> <td>NO</td> <td>YES</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>	NO	YES	<input checked="" type="checkbox"/>	<input type="checkbox"/>
NO	YES						
<input checked="" type="checkbox"/>	<input type="checkbox"/>						
2. Does the proposed action require a permit, approval or funding from any other governmental Agency? If Yes, list agency(s) name and permit or approval: NYSDEC and U.S. Army Corps of Engineers			<table border="1" style="width: 100%; text-align: center;"> <tr> <td>NO</td> <td>YES</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> </table>	NO	YES	<input type="checkbox"/>	<input checked="" type="checkbox"/>
NO	YES						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
3.a. Total acreage of the site of the proposed action?		6.453 acres					
b. Total acreage to be physically disturbed?		1.483 acres					
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor?		4.97 acres					
4. Check all land uses that occur on, adjoining and near the proposed action. <input checked="" type="checkbox"/> Urban <input checked="" type="checkbox"/> Rural (non-agriculture) <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Residential (suburban) <input checked="" type="checkbox"/> Forest <input type="checkbox"/> Agriculture <input type="checkbox"/> Aquatic <input checked="" type="checkbox"/> Other (specify): Town Road Right of Way <input type="checkbox"/> Parkland							

5. Is the proposed action, a. A permitted use under the zoning regulations?	NO <input type="checkbox"/>	YES <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
b. Consistent with the adopted comprehensive plan?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	NO <input type="checkbox"/>	YES <input checked="" type="checkbox"/>	
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: _____	NO <input checked="" type="checkbox"/>	YES <input type="checkbox"/>	
8. a. Will the proposed action result in a substantial increase in traffic above present levels?	NO <input checked="" type="checkbox"/>	YES <input type="checkbox"/>	
b. Are public transportation service(s) available at or near the site of the proposed action?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c. Are any pedestrian accommodations or bicycle routes available on or near site of the proposed action?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies: _____	NO <input type="checkbox"/>	YES <input checked="" type="checkbox"/>	
10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water: _____	NO <input checked="" type="checkbox"/>	YES <input type="checkbox"/>	
11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: _____	NO <input checked="" type="checkbox"/>	YES <input type="checkbox"/>	
12. a. Does the site contain a structure that is listed on either the State or National Register of Historic Places?	NO <input checked="" type="checkbox"/>	YES <input type="checkbox"/>	
b. Is the proposed action located in an archeological sensitive area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?	NO <input type="checkbox"/>	YES <input checked="" type="checkbox"/>	
b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply: <input type="checkbox"/> Shoreline <input type="checkbox"/> Forest <input type="checkbox"/> Agricultural/grasslands <input type="checkbox"/> Early mid-successional <input type="checkbox"/> Wetland <input type="checkbox"/> Urban <input type="checkbox"/> Suburban			
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?	NO <input type="checkbox"/>	YES <input checked="" type="checkbox"/>	
16. Is the project site located in the 100 year flood plain?	NO <input checked="" type="checkbox"/>	YES <input type="checkbox"/>	
17. Will the proposed action create storm water discharge, either from point or non-point sources? If Yes, a. Will storm water discharges flow to adjacent properties? <input type="checkbox"/> NO <input type="checkbox"/> YES b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe: _____ <input type="checkbox"/> NO <input type="checkbox"/> YES	NO <input checked="" type="checkbox"/>	YES <input type="checkbox"/>	

18. Does the proposed action include construction or other activities that result in the impoundment of water or other liquids (e.g. retention pond, waste lagoon, dam)? If Yes, explain purpose and size: _____	NO	YES
_____	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? If Yes, describe: _____	NO	YES
_____	<input checked="" type="checkbox"/>	<input type="checkbox"/>
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? If Yes, describe: _____	NO	YES
_____	<input checked="" type="checkbox"/>	<input type="checkbox"/>
I AFFIRM THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE		
Applicant/sponsor name: Brian Dimisko - Central Hudson Gas & Electric Corp		Date: <u>JUNE 13, 2017</u>
Signature: <u>B. Dimisko</u>		



Part 1 / Question 7 [Critical Environmental Area] No

Part 1 / Question 12a [National Register of Historic Places] No

Part 1 / Question 12b [Archeological Sites] No

Part 1 / Question 13a [Wetlands or Other Regulated Waterbodies] Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.

Part 1 / Question 15 [Threatened or Endangered Animal] Yes

Part 1 / Question 16 [100 Year Flood Plain] No

Part 1 / Question 20 [Remediation Site] No

1933 643 163

This Indenture made the 27th day of August, Nineteen hundred and sixty-seven
Between The Mahopac Company, a partnership having its principal office at
150 Broadway, New York, New York,

part of the first part, and

Central Hudson Gas & Electric Corporation, a domestic corporation
having its principal office at 234 South Avenue, Poughkeepsie,
Dutchess County, New York,

part of the second part,

Witnesseth that the party of the first part, in consideration of

Lawful Money of the United States, and other good and valuable considerations
paid by the party of the second part does hereby grant and release unto the party of the second part
its successors and assigns forever

All those certain lots, pieces, or parcels of land situate, lying, and being in
the Town of Carmel, County of Putnam, and State of New York, being more particularly
bounded and described as follows:

Beginning at a point on the southerly boundary line of Bullet Hole Road at
its intersection with the division line between property now or formerly belonging
to Rusch as shown on map entitled "Greenac, etc." filed in the Office of the Clerk of
Putnam County as Map No. 776A on the west and property now or formerly belonging to
The Mahopac Company on the east; thence easterly along the southerly boundary line
of Bullet Hole Road, South 82° 53' 44" East 35.04 feet to a point; thence southerly
and easterly through property now or formerly belonging to The Mahopac Company, South
09° 57' 15" West 1079.19 feet, South 81° 34' 53" East 405.45 feet and South 05° 36'
55" West 36.00 feet to the northerly boundary line of property now or formerly belonging
to Sedat; thence westerly along the last mentioned boundary line and along the north-
erly boundary line of property now or formerly belonging to Central School District
No. 1, North 81° 21' 05" West 60.00 feet, North 81° 21' 05" West 29.04 feet, North
81° 53' 40" West 199.84 feet, and North 81° 30' 15" West 92.41 feet to the first
mentioned division line; thence northerly along said first mentioned division line,
North 09° 57' 15" East 1114.76 feet to the point or place of beginning.
Containing 1.231 acres, more or less.

Beginning at a point on the northerly boundary line of Bullet Hole Road
at its intersection with the division line of property now or formerly belonging to
Lorenzen on the west and property now or formerly belonging to The Mahopac Company
on the east; thence along the easterly boundary line of property now or formerly
belonging to Lorenzen along the easterly boundary line of property now or formerly
belonging to Roberts and Rothfeld along the easterly boundary line of property now
or formerly belonging to Caplan and along the easterly and southerly boundary line
of property now or formerly belonging to Wier, the following courses and distances:
North 09° 03' 25" East 127.37 feet, North 11° 06' 35" East 55.16 feet, North 03° 30'
35" West 71.21 feet, North 02° 20' 25" East 217.02 feet, North 02° 55' 30" East
228.74 feet, North 00° 57' 35" West 67.36 feet, North 01° 44' 10" East 538.06 feet,
North 04° 55' 15" West 3.25 feet, North 03° 21' 30" East 242.57 feet, North 00° 45' 45" East
05" West 110.82 feet, North 01° 50' 00" West 100.73 feet, North 00° 26' 50" West
65.36 feet, North 04° 23' 00" West 31.63 feet, North 03° 26' 00" West 49.15 feet,
North 07° 14' 00" East 154.20 feet, North 07° 33' 00" East 82.97 feet, North 01° 00'
10" East 64.77 feet, North 02° 36' 50" East 37.17 feet, North 03° 34' 40" East
44.56 feet, North 02° 03' 00" East 53.63 feet, North 03° 21' 30" East 80.03 feet,
North 02° 14' 19" East 63.03 feet, North 03° 13' 03" East 251.95 feet, and South
67° 21' 15" East 37.37 feet to a point; thence southerly through property now or
formerly belonging to The Mahopac Company, South 02° 07' 03" West 382.40 feet to
the northerly boundary line of Bullet Hole Road; thence westerly along the northerly
boundary line of Bullet Hole Road, North 83° 15' 58" West 66.12 feet to the point
or place of beginning.

Containing 3.239 acres.

Both parcels being portions of land conveyed to The Mahopac Company by
deed dated August 27, 1965 and recorded in the Office of the Clerk of Putnam County
in Liber 616 of Deeds at Page 488.



Together with the appurtenances and all the estate and rights of the part y of the first part in and to said premises,

To Have and to Hold the premises herein granted unto the part y of the second part, its successors and assigns forever.

And said The Mahopac Company covenant as follows:

First, That said The Mahopac Company seized of said premises in fee simple and has good right to convey the same.

Second, That the party of the second part shall quietly enjoy the said premises.

Third, That the said premises are free from incumbrances,

Fourth, That the party of the first part will execute or procure any further necessary assurance of the title to said premises

Fifth, That said The Mahopac Company will forever Warrant the title to said premises.

Sixth, That, in compliance with Sec. 13 of the Lien Law the Grantor will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose.

In Witness Whereof, the part y of the first part has hereunto set its hand and seal the day and year first above written.

In Presence of

The Mahopac Company
By *Hyman R. Katz* L. S.
Joseph G. Greig Planning Agents L. S.
Messrs. Greig Planning Agents

State of New York, } ss.
County of New York

On this 27th day of February, Nineteen hundred and sixty seven before me the subscriber personally appeared Hyman R. Katz and Joseph G. Greig Planning Agents of The Mahopac Company to me personally known and known to me to be the same person described in and who executed the within instrument and they acknowledged to me that they executed the same.

Edwin N. Waldman

EDWIN N. WALDMAN
Notary Public, State of New York
Qual. 12-1-66
Term Expires March 31, 1967

STATE OF NEW YORK)
COUNTY OF) ss.:

On this day of 1967, before me personally appeared to me known, who being by me duly sworn, did depose and say: that he resides at that he is the of THE MAHOPAC COMPANY, the corporation described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation; and that he signed his name thereto by this order.

R+R HA

Notary Public

PUTNAM COUNTY
MAR -3 PM 3:44
CLERK'S OFFICE

Fee Pd.	No.
Stamps Pd.	Indexed By

Heed

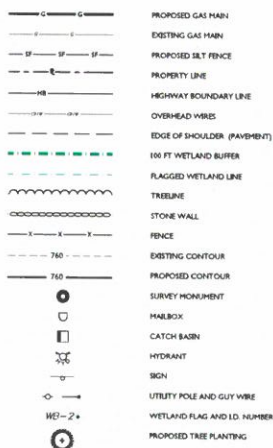
The Mahopac Company
TO
Central Hudson Gas & Electric Corporation

Leave this space for Recording Office
Recorded in the Clerk's Office of
the County of Putnam on the
3 day of March 1967
at 3 hours and 44 minutes P.M.
in Book No. 643 of Page
on page 163 and compared.

C. William Rich
HA Thomas Clerk



LEGEND:



ABBREVIATIONS

CB = CATCH BASIN
DI = DRAIN INLET
DS = SANITARY MANHOLE
DMM = DRAIN MANHOLE
EOA = EDGE OF ASPHALT
LP = LIGHT POLE
CO = CLEAN OUT
GM = GAS METER
OHW = OVERHEAD WIRES
EM = ELECTRIC METER
FE = FINISHED FLOOR ELEVATION
LS = LANDSCAPING
UTP = UTILITY POLE
MBX = MAILBOX
CIP = CAST IRON PIPE
CMP = CORRUGATED METAL PIPE
HDE = HIGH DENSITY POLYETHYLENE
CRS = CAPPED REBAR SET
RTBS = REBAR TO BE SET



SITE PLAN

PROPOSED PRESSURE REGULATOR STATION

1" = 20'

OWNER/ APPLICANT
CENTRAL HUDSON GAS & ELECTRIC
284 SOUTH AVE
POUGHKEEPSIE NY 12601

TAX LOT AND ADDRESS:

PARCEL # 53.017-1-30
339-349 BULLET HOLE RD.
MAHOPAC, NY 10541

SITE AREA:

TOTAL PARCEL: 4.978 ACRES
AREA OF CONSTRUCTION ON PARCEL: 0.103 ACRES

ZONING INFO & PROPOSED USE:

EXISTING ZONE: "R" RESIDENTIAL
ZONING DISTRICTS WITHIN 500 FT: "R" RESIDENTIAL

PROPOSED CONDITIONAL USE: PUBLIC UTILITY - GAS MAIN
REGULATOR SITE (PERMITTED PER
§156-27 OF TOWN ZONING CODE)

OFF-STREET PARKING/LOADING:

REQUIRED: ONE OFF-STREET PARKING SPACE SHALL BE PROVIDED FOR EACH FULL-TIME EMPLOYEE, PLUS ONE ADDITIONAL SPACE FOR EACH SERVICE VEHICLE, BUT NOT LESS THAN TWO.

NOTE: THIS FACILITY DOES NOT REQUIRE FULLPART TIME EMPLOYEES, ONLY SERVICE AND MAINTENANCE ACCESS.

LIMITS OF SITE DISTURBANCE

1. WORK UNITS DELINEATED ON THIS PLAN RESULT IN A MAXIMUM OF 4,500 SQ. FT. (0.103 AC) OF DISTURBANCE.

BULK TABLE

ZONE "R" RESIDENTIAL
PROPOSED USE PUBLIC UTILITY
CONDITIONAL USE PERMITTED BY RIGHT, SECTION 156-37 OF TOWN CODE. SUBJECT TO SITE PLAN REVIEW BY THE PLANNING BOARD.

REQUIREMENT	REQUIRED	EXISTING	PROVIDED
LOT AREA	120,000 SF	215,400 SF	286,470 SF
LOT COVERAGE	20 TO 15%	-	7%
LOT WIDTH	200 FT	VARIABLE 45 FT FRONTAGE	VARIABLE 45 FT FRONTAGE
LOT DEPTH	200 FT	1,300 FT	1,300 FT
FRONT YARD SETBACK	40 FT	-	NO PROPOSED BUILDING OR STRUCTURE
SIDE YARD SETBACK	40 FT	-	NO PROPOSED BUILDING OR STRUCTURE
REAR YARD SETBACK	40 FT	-	NO PROPOSED BUILDING OR STRUCTURE
LANDSCAPING BUFFER	100 FT	-	10 FT TO WEST, 5 FT TO EAST
HEIGHT	35 FT	-	3 FT
OTHER REQUIREMENTS	-	-	-

* NO FULL-TIME OR PART-TIME EMPLOYEES REQUIRED FOR SITE. SITE WILL ONLY BE ACCESSED FOR PERIODIC INSPECTION AND MAINTENANCE DURING SUCH INSPECTIONS THE SIDE DRIVE CAN ACT AS OFF-STREET PARKING.

SOIL EROSION CONTROL NOTES

1. ALL SOIL, EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY FAVOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
 2. ANY DISTURBED AREAS WILL BE LEFT EXPOSED MORE THAN SEVEN (14) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC. IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEARCH PERMITS THE ESTABLISHMENT OF TEMPORARY COVER, THE DISTURBED AREA WILL BE COVERED WITH GRASS OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.
 3. PERMANENT VEGETATION TO BE SEED OR SOODED ON ALL EXPOSED AREAS WITHIN FIVE (5) DAYS AFTER FINAL GRADING. MULCHING IS REQUIRED ON ALL SEEDING.
 4. ALL WORK TO BE DONE IN ACCORDANCE WITH THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
 5. THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A STONE PAD AT ALL CONSTRUCTION DRIVEWAYS. IMMEDIATELY AFTER INITIAL SITE DISTURBANCE.
- UNLTERED DRAINAGE IS NOT PERMITTED TAKE ALL NECESSARY PRECAUTIONS DURING ALL DRAINAGE OPERATIONS TO PREVENT SEVERE EROSION. DRAINAGE OPERATIONS MUST BE IN ACCORDANCE WITH STATE STANDARDS.
- SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET. TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED IN ACCORDANCE WITH STATE STANDARDS FOR WET CONSTRUCTION.
6. PAYMENT AREAS ARE TO BE KEPT CLEAN AT ALL TIMES. ALL SOIL, WASHED, DROPPED, SPILLED, OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC HIGH-ROAD-WAY, MUST BE REMOVED IMMEDIATELY.
 7. ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR SOIL, EROSION AND SEDIMENT CONTROL.
 8. DURING CONSTRUCTION, ANY ADDITIONAL CONTROL MEASURES AS DEEMED NECESSARY TO PREVENT EROSION OR CONTROL SEDIMENT BEYOND THOSE MEASURES SHOWN ON THE APPROVED PLAN SHALL BE INSTALLED OR COVERED AT THE DIRECTION OF MUNICIPAL ENGINEER.
 9. ALL TEMPORARY STRUCTURAL, EROSION AND SEDIMENT CONTROL MEASURES CAN BE REMOVED WHEN ALL CONSTRUCTION ACTIVITY HAS BEEN COMPLETED. ALL AREAS OF DISTURBANCE HAVE ACHIEVED FINAL STABILIZATION.
- "FINAL STABILIZATION" MEANS THAT ALL SOIL DISTURBANCE ACTIVITIES HAVE CEASED AND A UNIFORM, PERMANENT VEGETATIVE COVER WITH A DENSITY OF EIGHTY PERCENT OVER THE ENTIRE PERMANENT SURFACE HAS BEEN ESTABLISHED. OR OTHER EQUIVALENT STABILIZATION MEASURES SUCH AS PERMANENT LANDSCAPE PLANTING, ROCK RIPRAP OR WADSCRAUSHED STONE HAVE BEEN APPLIED ON ALL DISTURBED AREAS THAT ARE

*FINAL STABILIZATION - MEANS THAT ALL SOIL DISTURBANCE ACTIVITIES HAVE CEASED AND A UNIFORM, PERENNIAL VEGETATIVE COVER WITH A DENSITY OF EIGHTY (80) PERCENT OVER THE ENTIRE PERVIOUS SURFACE HAS BEEN ESTABLISHED; OR OTHER EQUIVALENT STABILIZATION MEASURES, SUCH AS PERMANENT LANDSCAPE MULCHES, ROCK, RIP-RAP OR WASHED/CRUSHED STONE HAVE BEEN APPLIED ON ALL DISTURBED AREAS THAT ARE NOT COVERED BY PERMANENT STRUCTURES, CONCRETE OR PAVEMENT.

MAP REFERENCE:

1. EXISTING CONDITIONS FROM A SURVEY BY MASER CONSULTING ENTITLED "SH GAS LINE", DATED JANUARY 3RD, 2017.

GENERAL NOTES:

7. WHENEVER THE CONTRACT REQUIRES MATERIALS TO BE REMOVED AND DEPOSED OF THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THAT AREA SHALL BE INCLUDED IN THE BID.
8. THERE SHALL BE NO CLAIM AGAINST THE OWNER MADE BY THE CONTRACTOR FOR WORK PERTAINING TO MODIFICATIONS AS SPECIFIED IN THE CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD CONDITIONS AND THOSE SHOWN BY THE DETAILS AND CONDITIONS ON THE CONTRACT PLANS.
9. CARE SHALL BE TAKEN TO RETAIN NATURAL GROWTH AND PREVENT DAMAGE TO TREES WITHIN AND OUTSIDE THE LIMITS OF THE PROJECT. AND NO DAMAGE TO THE TREES OR TO THE DAMAGE CAUSED BY THE NATURAL GROWTH SHALL BE COMPLETED BY THE CONTRACTOR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
10. THE CONTRACTOR IS TO VISIT THE SITE BEFORE BIDDING. TO GET FAMILIARIZED WITH THE FIELD CONDITIONS AND TO JUDGE FOR HIMSELF THE EXTENT OF THE WORK. ACTION OF THE WORK ACTION TO BE DONE UNDER THE CONTRACTOR. NO EXTRA COMPENSATION WILL BE ALLOWED BECAUSE OF THE DIFFICULTY OF THE WORK ACTION TO BE DONE UNDER THE BID. ALL MATERIALS, EQUIPMENT, TOOLS AND SUPPLIES REQUIRED TO FURNISH IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
11. ALL CONCRETE USED IN THE PROJECT, UNLESS OTHERWISE SPECIFIED, SHALL BE OF THE FOLLOWING STRENGTH: PRESTRESSIVE STRONG (F_c) AT DAYS OF 3000 POUNDS PER SQUARE INCH.
12. PAVEMENT SHALL BE KEPT CLEAN AND FREE OF MUD AND DEBRIS AT ALL TIME.
13. NEARBY EXISTING DRAINAGE SHALL BE MAINTAINED AND OPEN



DANIEL A. FARNAN
NEW YORK LICENSED PROFESSIONAL
ENGINEER - LICENSE NUMBER: 092516-1

**SITE PLAN OF
PRESSURE REGULATOR
STATION
FOR
CENTRAL HUDSON**

BLOCK 53.017
LOT 1
SECTION 38

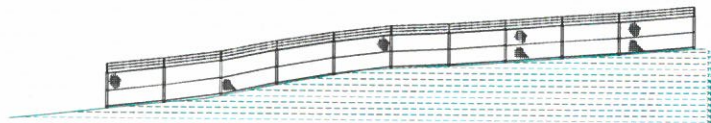
TOWN OF CARMEL
PUTNAM COUNTY
STATE OF NEW YORK



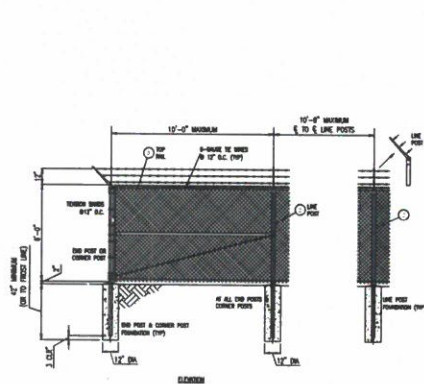
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DIMENSION PLAN

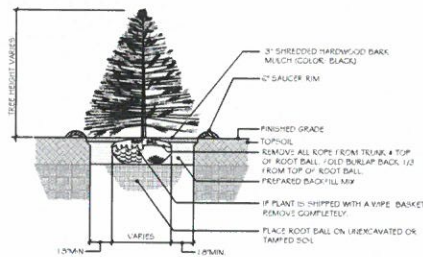
1 of 2



**EAST ELEVATION VIEW
PROPOSED FENCING**
1" = 10'



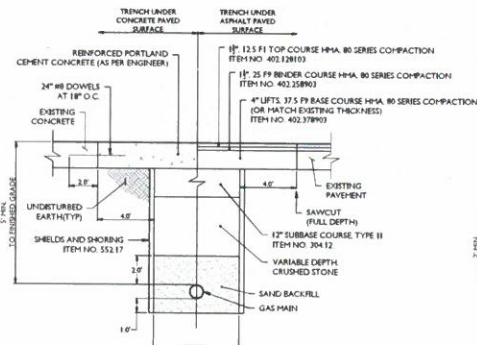
FENCING DETAIL
N.T.S.



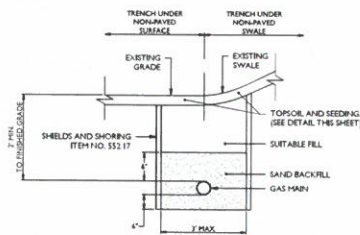
EVERGREEN TREE PLANTING DETAIL
NOT TO SCALE

PLANT DETAIL NOTES

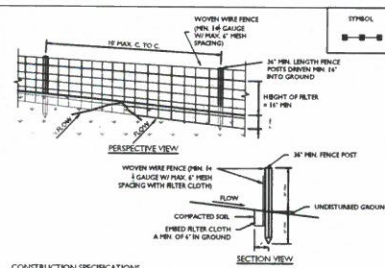
1. NO SOIL OR MULCH SHALL BE PLACED AGAINST ROOT COLLAR OF PLANT. MULCH SHALL NOT TOUCH THE TREE TRUNK.
2. PLANTING DEPTH SHALL BE THE SAME OR HIGHER AS GROWN IN NURSERY.
3. WIRE BASKETS AND NON-JUTE BURLAP MUST BE ENTIRELY REMOVED FROM THE ROOT BALL. JUTE BURLAP MUST BE REMOVED FROM THE TOP 1/3 OF THE ROOT BALL.
4. DEPTH OF PLANT PIT SHALL BE INCREASED BY 12" WHEREVER POOR SOIL CONDITIONS OCCUR WITH THE ADDITION OF LOOSE AGGREGATE.
5. CONTRACTOR SHALL PARTIALLY FILL WITH WATER A REPRESENTATIVE NUMBER OF PITS IN EACH AREA OF THE PROJECT PRIOR TO PLANTING TO DETERMINE IF THERE IS ADEQUATE PERCOLATION. IF PIT DOESN'T PERCOLATE, MEASURES MUST BE TAKEN TO ASSURE PROPER DRAINAGE BEFORE PLANTING.
6. PLANTINGS SUBJECT TO GUARANTEE CLAUSES WITHIN CONTRACT FOR WORK. WITH CONTRACTOR AND THEIR SUBCONTRACTORS AT MINIMUM PLANTINGS SHALL BE GUARANTEE FOR ONE (1) FULL GROWING YEAR FROM THE TIME OF FINAL ACCEPTANCE BY CENTRAL HUDSON.
7. BACKFILL MIXTURE TO BE SPECIFIED BASED UPON SOIL TEST AND CULTURAL REQUIREMENTS OF PLANT.
8. PRUNE DAMAGED AND/OR CONFLICTING BRANCHES HARMING ADJACENT TREE SHAPE. NEVER CUT CENTRAL TRUNK OR LEADER.



TRENCH DETAIL - IN PAVEMENT
N.T.S.



TRENCH DETAIL - NON-PAVED AREAS
N.T.S.



CONSTRUCTION SPECIFICATIONS

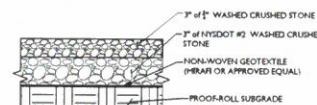
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL, EITHER "1" OR "1 1/2" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 36" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 36" INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER PERMANENTLY STABILIZED OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE GEOTAF, ENVIRONMENTAL OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILT FENCE
SCALE N.T.S.

GENERAL SEEDING NOTES

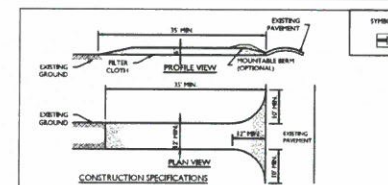
1. TEMPORARY SEEDING SHALL CONSIST OF PERMANENT RYEGRASS APPLIED AT A RATE OF 1.0 LBS. PER 1000 SF OR SPRING DATE APPLIED AT A RATE OF 3.0 LBS. PER 1000 SF. TEMPORARY SEEDING SHALL BE MULCHED AND MAINTAINED UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED WITH PERMANENT SEEDING.
2. PERMANENT SEEDING SHALL CONSIST OF THE FOLLOWING MIXTURE OR APPROVED EQUAL - OPTIMUM SEEDING DATES ARE BETWEEN APRIL 1 AND MAY 31 AND AUGUST 14 AND OCTOBER 15.

MIXTURE - HARD FESCUE	120 LBS/ACRE
PERENNIAL RYE GRASS	20 LBS/ACRE
KENTUCKY BLUE GRASS (BLD-1)	40 LBS/ACRE
MIXTURE - TALL FESCUE	140 LBS/ACRE
PERENNIAL RYE GRASS (BLD-1)	20 LBS/ACRE
KENTUCKY BLUE GRASS (BLD-1)	20 LBS/ACRE
3. PERMANENT SEEDING TO BE APPLIED BY RAKING OR DRILLING INTO THE SOILS AT A RATE OF 150# PER ACRE. SEEDING AREA TO BE COVERED WITH MULCH AS INDICATED IN NOTE 6.
4. FERTILIZER FOR THE ESTABLISHMENT OF TEMPORARY AND PERMANENT VEGETATIVE COVER SHALL BE IN COMPLIANCE WITH THE LATEST NYSDEC REGULATIONS. A SOIL TEST PRIOR TO FERTILIZER APPLICATION IS RECOMMENDED.
5. IF SEASON PREVENTS THE ESTABLISHMENT OF TEMPORARY OR PERMANENT SEEDING, EXPOSED AREA TO BE STABILIZED WITH MULCH AS INDICATED IN NOTE 6.
6. MULCH TO CONSIST OF SMALL GRAIN STRAW OR SALT HAY ANCHORED WITH A WOOD AND FIBER MULCH BINDER OR AN APPROVED EQUAL. MULCH WILL BE SPREAD AT RATES OF 10 TO 115 LBS. PER 1000 SF AND ANCHORED WITH A MULCH ANCHORING TOOL OR LIQUID MULCH BINDER. AND SHALL BE PROVIDED ON ALL SEEDINGS. HYDRO-MULCH SHALL ONLY BE USED DURING OPTIMUM GROWING SEASONS.
7. WORK LINE AND FERTILIZER INTO SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON ON THE GENERAL CONTIGUOUS COVERAGE TRAILER UNTIL A REASONABLY UNIFORM PINE SEEDING IS PREPARED. ALL BUT CLAY OR SILTY SOILS AND COARSE SANDS SHOULD BE ROLLED TO FIRM THE SEEDBED WHEREVER FEASIBLE.
8. REMOVE FROM THE SURFACE ALL STONES TWO INCHES OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBRIS SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, LIMBS, OR OTHER UNSUITABLE MATERIAL.
9. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AND PREPARED AS ABOVE.



NOTES:
1. ONLY THE PROPOSED SUBGRADE FOR THE GRAVEL AREA AND THE ACCESS DRIVE SHALL BE PROOF-ROLLED.

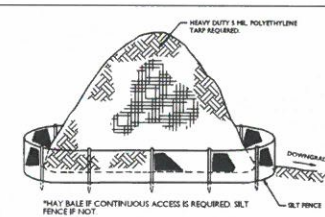
GRAVEL SURFACE DETAIL
N.T.S.



CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 2" STONE OR EQUIVALENT OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN 8X (8) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PREPARED ACROSS THE ENTRANCE. IF PAVING IS IMPRACTICAL, A MOVABLE BENT WITH 1:1 SLOPE WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT UNDEPOSITED, GROUNDED, WAIVED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WAIVING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE
SCALE N.T.S.



- NOTES:**
1. AREA CHOSEN FOR STOCKPILING SHALL BE DRY AND STABLE.
 2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2:1.
 3. UNIFORM CONSTRUCTION OF SOIL STOCKPILE SHALL BE SURROUNDED WITH SILT FENCING AND STABILIZED SEED AND MULCH OR JUTE MESH. MATRICES SHALL NOT BE USED IN PLACE OF SILT FENCE.
 4. SEE NYSDEC SPECIFICATIONS FOR REGULATION OF SILT FENCE.
 5. SIZE OF STOCKPILE SHALL NOT EXCEED THE LIMITATIONS OF DRAINAGE AREA PER SILT FENCE.
 6. INSTALL SILT FENCE AND/OR MATRICES A MINIMUM OF 7-10' FROM THE TOE OF THE STOCKPILE.

SOIL STOCKPILE DETAIL
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PROJECT LOCATION
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BLOCK 53.017, LOT 1, SECTION 38

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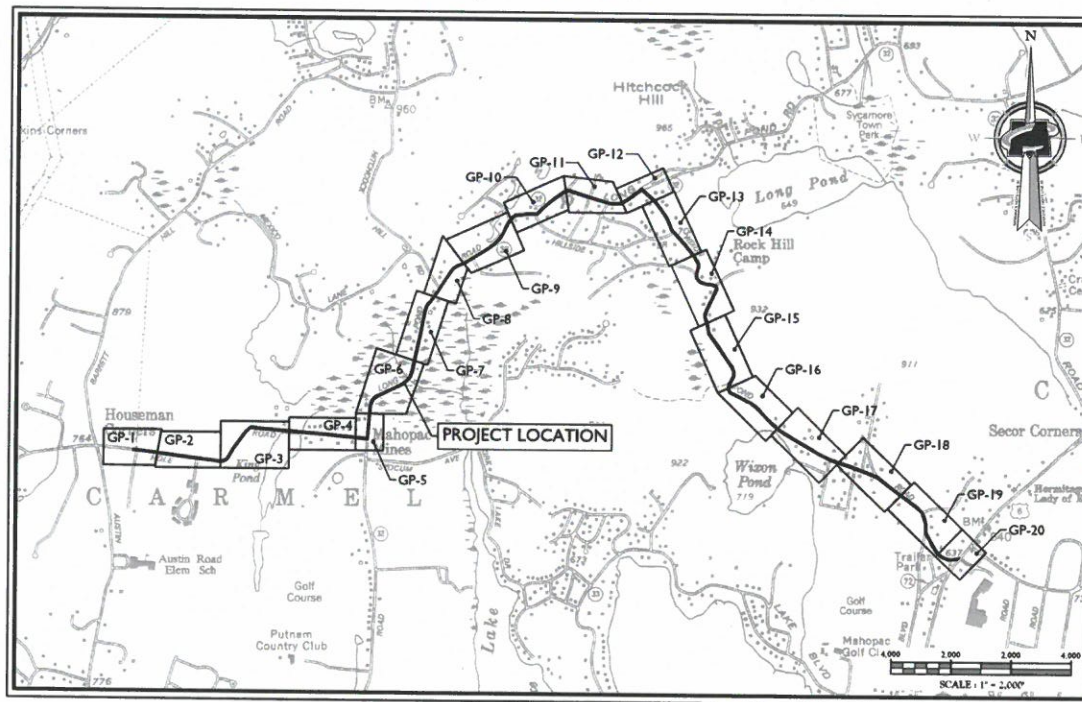
SITE PLAN OF PRESSURE REGULATOR STATION FOR CENTRAL HUDSON
Central Hudson
BLOCK 53.017, LOT 1, SECTION 38
TOWN OF CARMEL, PUTNAM COUNTY, STATE OF NEW YORK

ALBANY OFFICE
1000 STATE STREET, SUITE 300
ALBANY, NY 12208
Phone: 518.463.7251
Fax: 518.463.7250

CONSTRUCTION DETAILS

2 of 2

PROJECT ROUTE DESIGN PLANS
FOR
CENTRAL HUDSON GAS AND ELECTRIC CORP.
S-M LINE: GAS DISTRIBUTION REINFORCEMENT PROJECT
PROPOSED 10" STEEL GAS MAN & GAS REGULATOR STATION
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK
JUNE 2017



PROJECT LOCATION MAP

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25. EROSION CONTROL NOTES AND DETAILS (2 OF 2)
26. GENERAL DETAILS



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ENGINEER - LICENSE NUMBER 3496

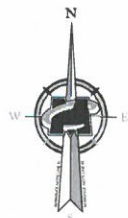
PROJECT ROUTE DESIGN
PLANS
FOR
Central Hudson
A CENTURY COMPANY
**S-M LINE GAS
REINFORCEMENT PROJECT**
TOWN OF CARMEL
PUTNAM COUNTY, NY

MASER OFFICE
10 Corporate Drive East
Albany, NY 12205
Phone: 518 459 3332
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COVER SHEET

SHEET NUMBER
1 of 26

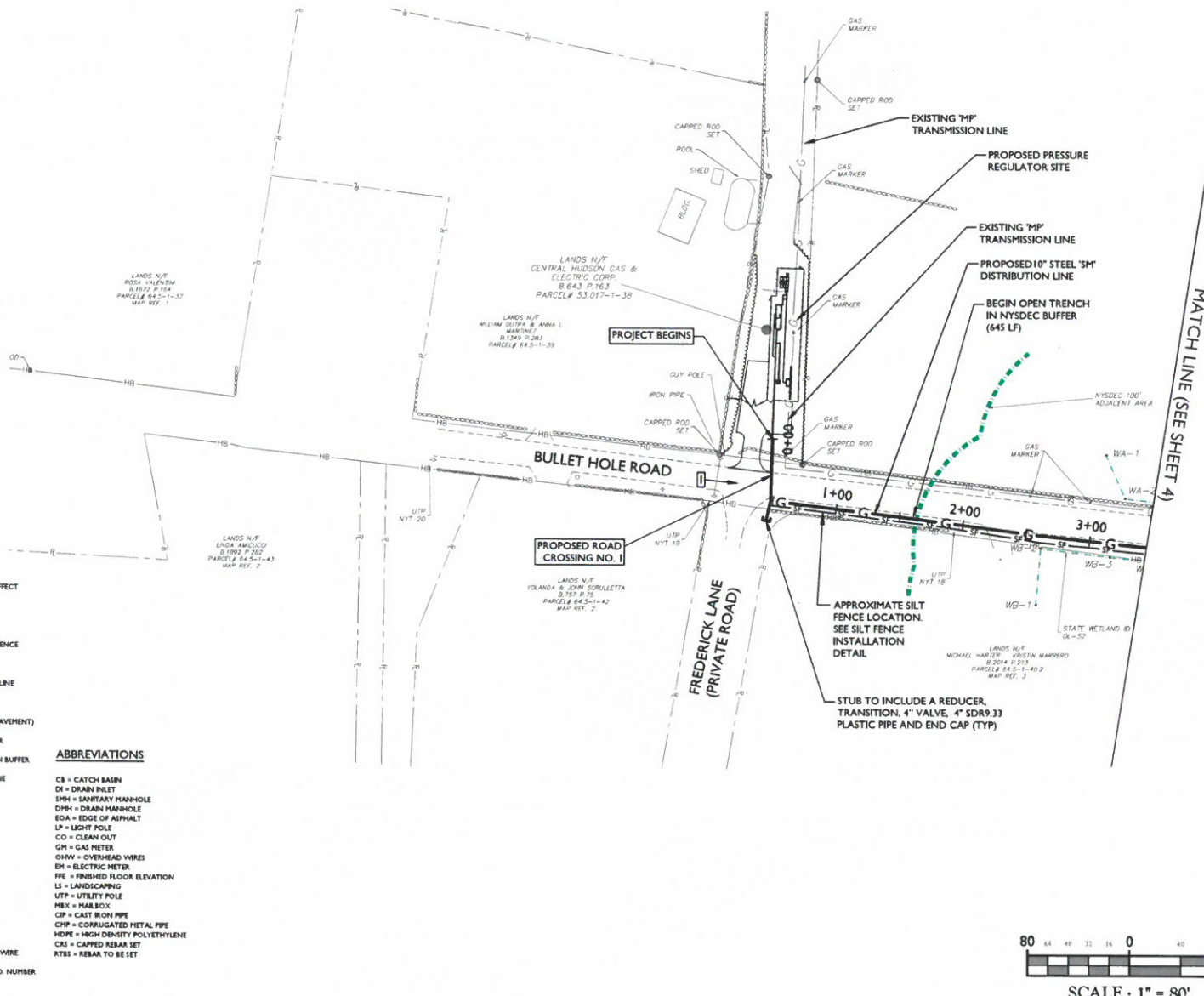


LEGEND:

- G — G — PROPOSED GAS MAIN
- APE — AREA OF POTENTIAL AFFECT
- E — EXISTING GAS MAIN
- SF — PROPOSED SILT FENCE
- SSF — PROPOSED SUPER SILT FENCE
- — — — — PROPERTY LINE
- HB — HIGHWAY BOUNDARY LINE
- — — — — OVERHEAD WIRES
- — — — — EDGE OF SHOULDER (PAVEMENT)
- — — — — 100 FT WETLAND BUFFER
- — — — — 100 FT WETLAND TOWN BUFFER
- — — — — FLAGGED WETLAND LINE
- — — — — TREELINE
- — — — — STONE WALL
- — — — — FENCE
- — SURVEY MONUMENT
- — MAILBOX
- — CATCH BASIN
- — — — — HYDRANT
- — — — — SIGN
- — — — — UTILITY POLE AND GUY WIRE
- WB-2 — WETLAND FLAG AND I.D. NUMBER
- — — — — PICTURE FOR SHPO

ABBREVIATIONS

- CB = CATCH BASIN
- DI = DRAIN INLET
- SHM = SANITARY MANHOLE
- DHM = DRAIN MANHOLE
- EOA = EDGE OF ASPHALT
- LP = LIGHT POLE
- CO = CLEAN OUT
- GM = GAS METER
- OHV = OVERHEAD WIRES
- EM = ELECTRIC METER
- FRE = FINISHED FLOOR ELEVATION
- LS = LANDSCAPING
- UTP = UTILITY POLE
- HEX = MAILBOX
- CIP = CAST IRON PIPE
- CHP = CORRUGATED METAL PIPE
- HDPE = HIGH DENSITY POLYETHYLENE
- CBS = CAPPED REBAR SET
- RTBS = REBAR TO BE SET



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ENGINEER - LICENSE NUMBER: 04966

**PROJECT ROUTE DESIGN
PLANS
FOR
Central Hudson
S - M LINE GAS
REINFORCEMENT PROJECT**

**TOWN OF CARMEL
PUTNAM COUNTY, NY**

ANALOG OFFICE
11 Corporate Drive, Suite 200
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**GENERAL PLAN
(1 OF 20)**

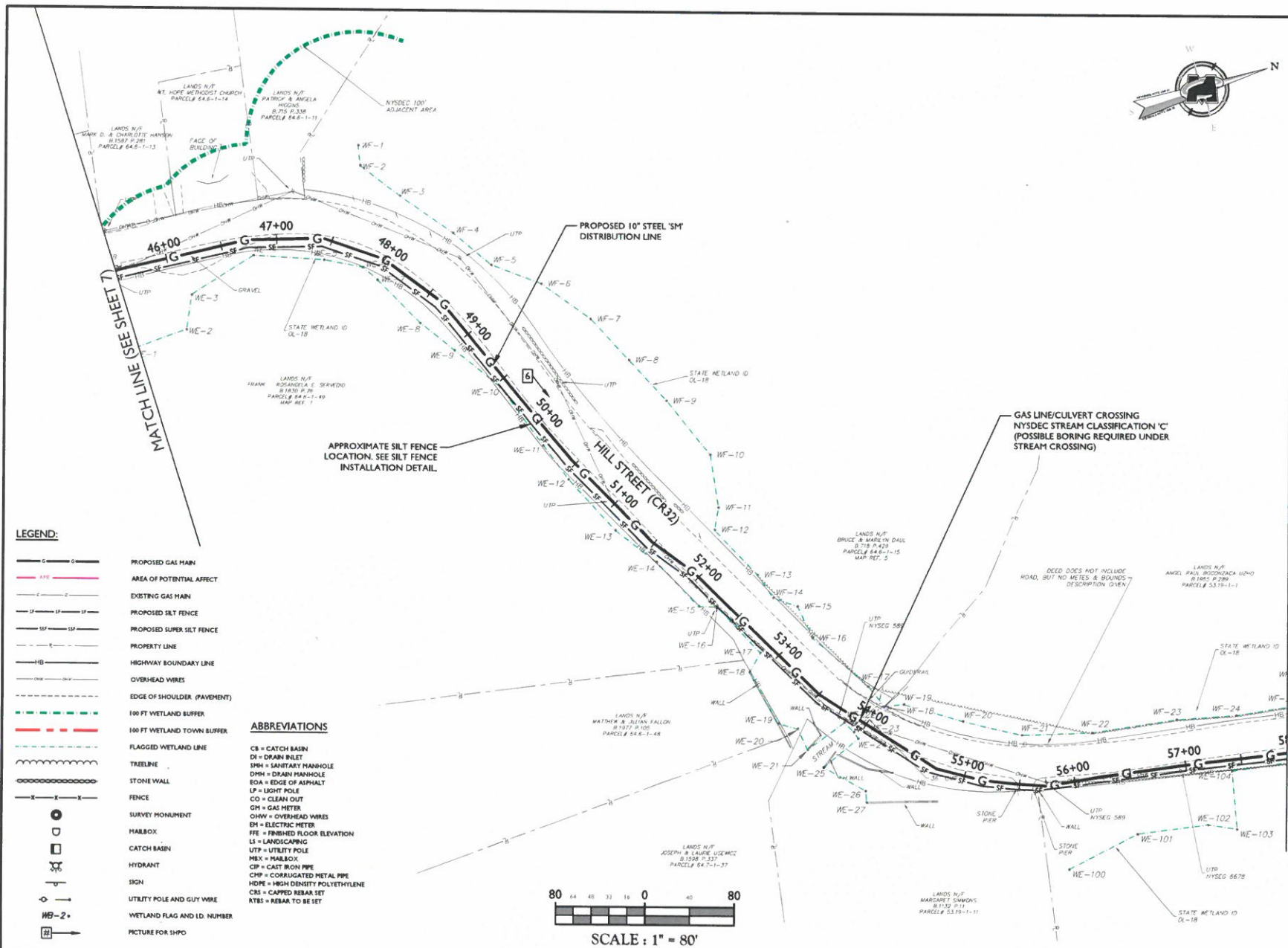
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- ## ABBREVIATIONS



SHEET TITLE
GENERAL PLAN
(5 OF 20)

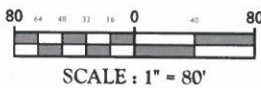


LEGEND:

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- AREA OF POTENTIAL AFFECT
- EXISTING GAS MAIN
- PROPOSED SILT FENCE
- PROPOSED SUPER SILT FENCE
- PROPERTY LINE
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- OVERHEAD WIRES
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- STONE WALL
- FENCE
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- PICTURE FOR SHPO

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- CBP = CAST BRON PIPE
- CHP = CORRUGATED METAL PIPE
- HDPE = HIGH DENSITY POLYETHYLENE
- CRS = CAPPED REBAR SET
- RTBS = REBAR TO BE SET



MATCH LINE (SEE SHEET 9)

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 NEW YORK LICENSED PROFESSIONAL
 ENGINEER - LICENSE NUMBER: 66966

**PROJECT ROUTE DESIGN
PLANS
FOR
S-M LINE GAS
REINFORCEMENT PROJECT**

**TOWN OF CARMEL
PUTNAM COUNTY, NY**

DESIGN OFFICE
 11 Corporate Drive, Suite 203
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**GENERAL PLAN
(6 OF 20)**

8 of 26



MATCH LINE (SEE SHEET 8)

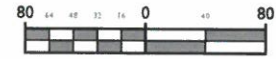
MATCH LINE (SEE SHEET 10)

LEGEND:

- G — G — PROPOSED GAS MAIN
- AFE — AREA OF POTENTIAL AFFECT
- E — EXISTING GAS MAIN
- SF — PROPOSED SILT FENCE
- SSF — PROPOSED SUPER SILT FENCE
- — — — — PROPERTY LINE
- HB — HIGHWAY BOUNDARY LINE
- — — — — OVERHEAD WIRES
- — — — — EDGE OF SHOULDER (PAVEMENT)
- — — — — 100 FT WETLAND BUFFER
- — — — — 100 FT WETLAND TOWN BUFFER
- — — — — FLAGGED WETLAND LINE
- — — — — TREE LINE
- — — — — STONE WALL
- — — — — FENCE
- — — — — SURVEY MONUMENT
- — — — — MAILBOX
- — — — — CATCH BASIN
- — — — — HYDRANT
- — — — — SIGN
- — — — — UTILITY POLE AND GUY WIRE
- — — — — WETLAND FLAG AND I.D. NUMBER
- — — — — PICTURE FOR SHPO

ABBREVIATIONS

- CB = CATCH BASIN
- DI = DRAIN INLET
- SHN = SANITARY MANHOLE
- DMH = DRAIN MANHOLE
- EOA = EDGE OF ASPHALT
- LP = LIGHT POLE
- CO = CLEAN OUT
- GM = GAS METER
- OHV = OVERHEAD WIRES
- DM = ELECTRIC METER
- PFE = FINISHED FLOOR ELEVATION
- LS = LANDSCAPING
- UTP = UTILITY POLE
- MBX = MAILBOX
- CIP = CAST IRON PIPE
- CHP = CORRUGATED METAL PIPE
- HDPE = HIGH DENSITY POLYETHYLENE
- CRS = CAPPED REBAR SET
- ATBS = REBAR TO BE SET



SCALE: 1" = 80'



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NO.	DATE	REVISION	DESCRIPTION

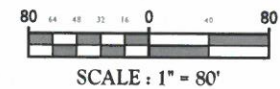
BRETT D. REYNOLDS
NEW YORK LICENSED PROFESSIONAL
ENGINEER - LICENSE NUMBER 94954




PROJECT ROUTE DESIGN
PLANS
FOR
Central Hudson
S. M LINE GAS
REINFORCEMENT PROJECT
TOWN OF CARMEL
PUTNAM COUNTY, NY

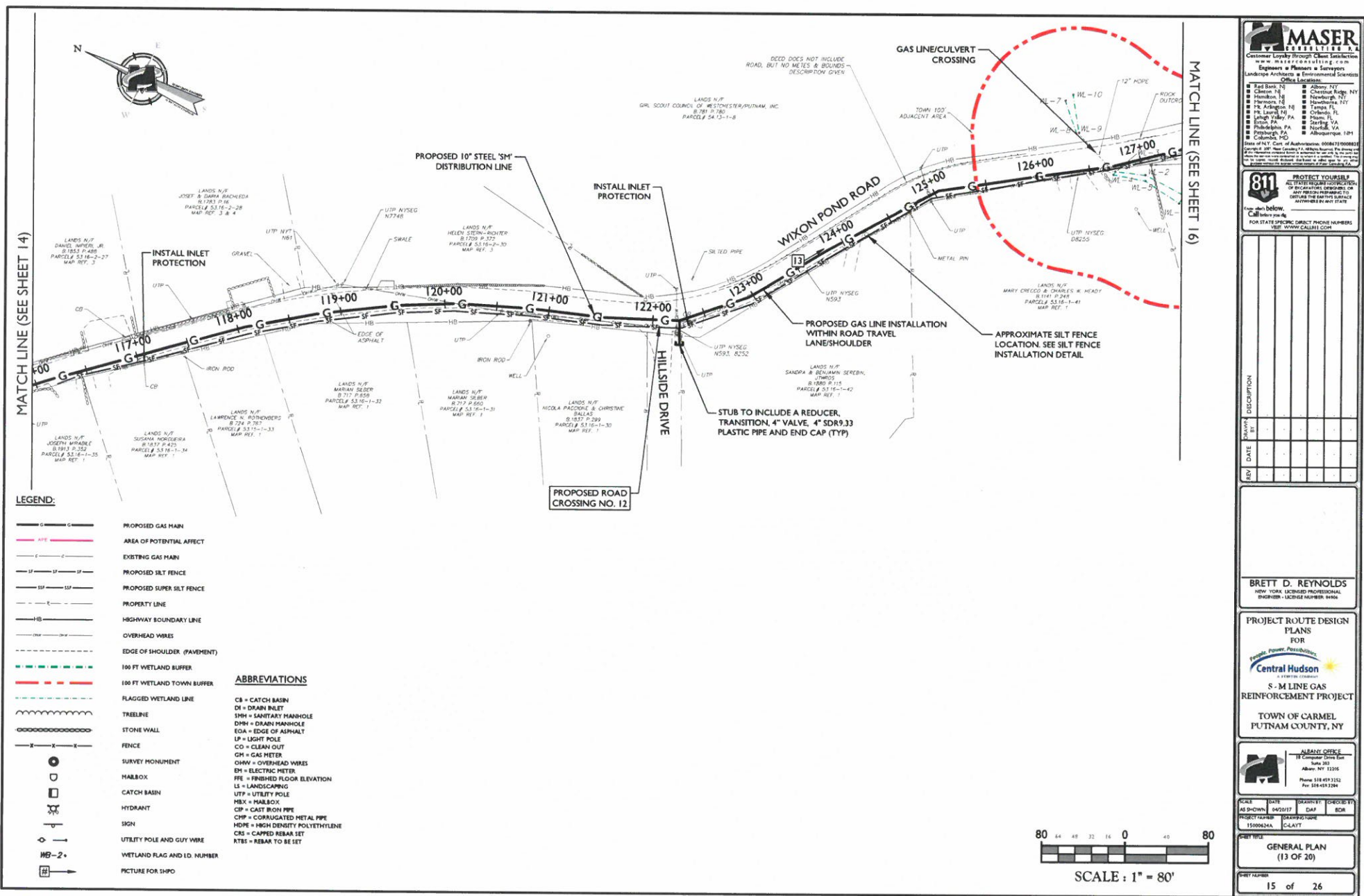


SCALE	DATE	DESIGNED	CHECKED
AS SHOWN	04/20/17	DAF	BDK
PROJECT NUMBER	1509000004	DRAWN	CLANT
SHEET NUMBER	9	OF	26

GENERAL PLAN
(7 OF 20)



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<div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 2px solid black; border-radius: 50%; width: 60px; height: 60px; display: flex; align-items: center; justify-content: center; margin-right: 10px;"> <div style="font-size: 24px; font-weight: bold; color: white;">811</div> </div> <div> PROTECT YOURSELF ALL TERRITORY CONTRACTORS OF EXCAVATION, DRILLING, OR ANY OTHER SERVICE MUST CALL 811 PRIOR TO ANY WORK. AN 811 SERVICE IS NOT NECESSARY IF YOU ARE NOT DIGGING. </div> </div> <p>Call before you dig.</p> <p>FOR STATE SPECIFIC CREDIT PHONE NUMBERS VISIT: WWW.CALL811.COM</p>					
REV	DATE	DRAWN BY	DESCRIPTION		
BRETT D. REYNOLDS NEW YORK LICENSED PROFESSIONAL SURVEYOR - LICENSE NUMBER: 9490					
PROJECT ROUTE DESIGN PLANS FOR  Central Hudson a Xcel Energy Company S - M LINE GAS REINFORCEMENT PROJECT TOWN OF CARMEL PUTNAM COUNTY, NY					
 <div style="float: right; text-align: right;"> ALBANY OFFICE 150 N. ALBANY STREET SUITE 301 ALBANY, NY 12205 Phone: 518-619-3252 Fax: 518-619-3284 </div>					
SCALE	DATE	DRAWN BY	CHECKED BY	DATE	BY
AS SHOWN	04/20/17	DAF	DAF		
PROJECT NUMBER	15000424	DISCREET/TYPE	CLAYTON		
SHEET TITLE					
GENERAL PLAN (12 OF 20)					
SHEET NUMBER					
14 of 26					

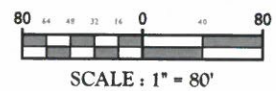


MATCH LINE (SEE SHEET 14)

MATCH LINE (SEE SHEET 16)

- LEGEND:**
- G — G — PROPOSED GAS MAIN
 - AFE — AREA OF POTENTIAL AFFECT
 - E — EXISTING GAS MAIN
 - SF — SF — PROPOSED SILT FENCE
 - SSF — SSF — PROPOSED SUPER SILT FENCE
 - — — — — PROPERTY LINE
 - HB — HIGHWAY BOUNDARY LINE
 - — — — — OVERHEAD WIRES
 - — — — — EDGE OF SHOULDER (PAVEMENT)
 - — — — — 100 FT WETLAND BUFFER
 - — — — — 100 FT WETLAND TOWN BUFFER
 - — — — — FLAGGED WETLAND LINE
 - — — — — TREELINE
 - — — — — STONE WALL
 - — — — — FENCE
 - — SURVEY MONUMENT
 - — MANHOLE
 - — CATCH BASIN
 - — — — — HYDRANT
 - — — — — SIGN
 - — — — — UTILITY POLE AND GUY WIRE
 - WB-2+ — WETLAND FLAG AND I.D. NUMBER
 - — — — — PICTURE FOR SHPO

- ABBREVIATIONS**
- CB = CATCH BASIN
 - DI = DRAIN INLET
 - SHM = SANITARY MANHOLE
 - DMH = DRAIN MANHOLE
 - EOA = EDGE OF ASPHALT
 - LP = LIGHT POLE
 - CO = CLEAN OUT
 - GM = GAS METER
 - OHV = OVERHEAD WIRES
 - DM = ELECTRIC METER
 - PFE = FINISHED FLOOR ELEVATION
 - LS = LANDSCAPING
 - UTP = UTILITY POLE
 - MBX = MANHOLE BOX
 - CBP = CAST IRON PIPE
 - CHP = CORRUGATED METAL PIPE
 - HDPE = HIGH DENSITY POLYETHYLENE
 - CRS = CAPPED REBAR SET
 - RTS = REBAR TO BE SET



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NEW YORK LICENSED PROFESSIONAL
ENGINEER - LICENSE NUMBER 34904

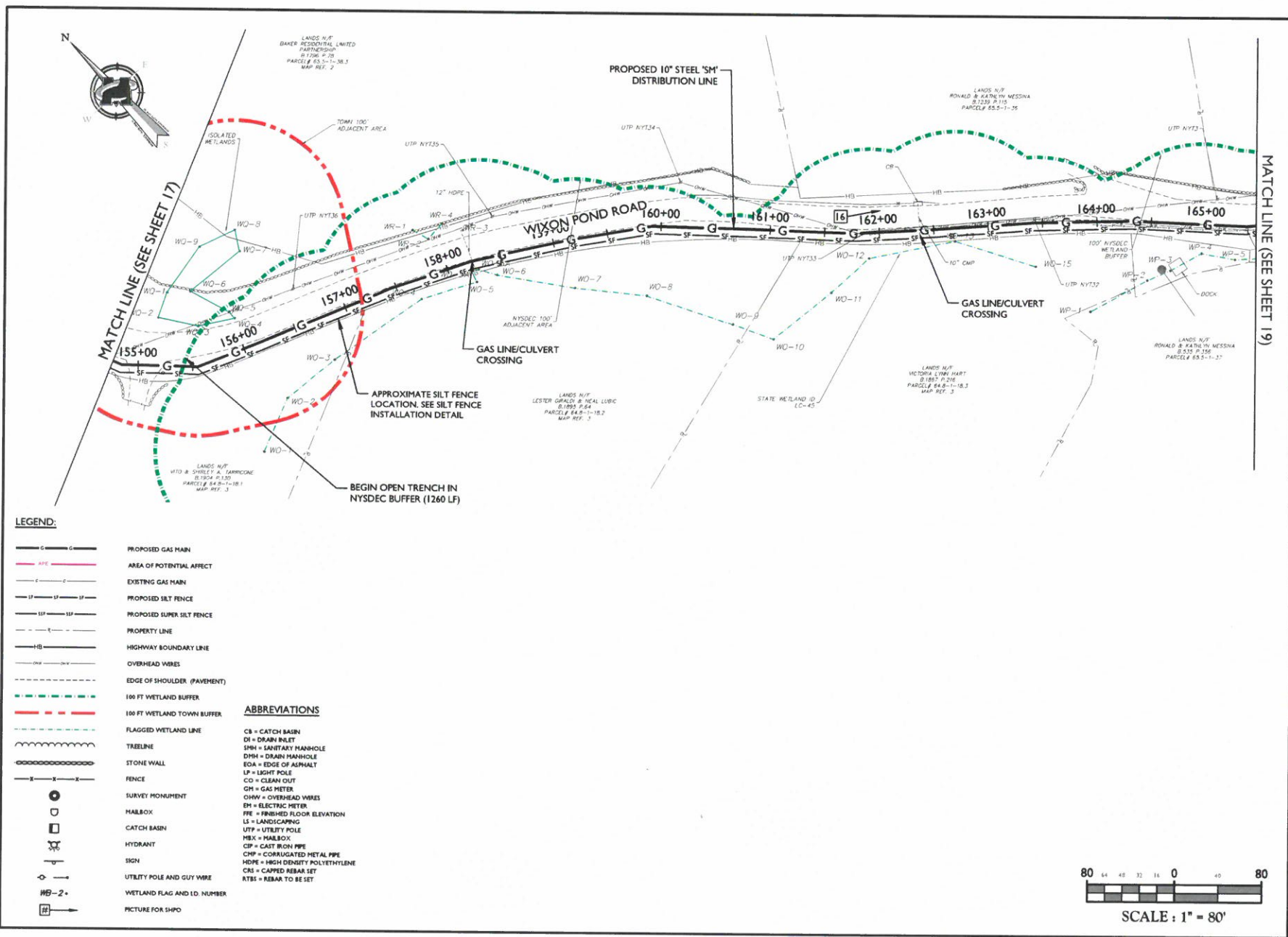
**PROJECT ROUTE DESIGN
PLANS
FOR
Central Hudson
S.M. LINE GAS
REINFORCEMENT PROJECT**

**TOWN OF CARMEL
PUTNAM COUNTY, NY**

ALBANY OFFICE
11 Central Hudson Dr.
Albany, NY 12205
Phone: 518-459-1111
Fax: 518-459-1294

DATE	BY	CHECKED	DATE
04/01/17	DAF	BCR	

PROJECT NUMBER: 15060000
SHEET NUMBER: 15 of 26



MATCH LINE (SEE SHEET 17) MATCH LINE (SEE SHEET 19)

- LEGEND:**
- G — G — PROPOSED GAS MAIN
 - APE — AREA OF POTENTIAL AFFECT
 - E — E — EXISTING GAS MAIN
 - SF — SF — PROPOSED SILT FENCE
 - SSF — SSF — PROPOSED SUPER SILT FENCE
 - P — P — PROPERTY LINE
 - HB — HB — HIGHWAY BOUNDARY LINE
 - OV — OV — OVERHEAD WIRES
 - ES — ES — EDGE OF SHOULDER (PAVEMENT)
 - 100 FT WETLAND BUFFER
 - 1260 FT WETLAND BUFFER
 - FLAGGED WETLAND LINE
 - TREELINE
 - STONE WALL
 - FENCE
 - SURVEY MONUMENT
 - MAILBOX
 - CATCH BASIN
 - HYDRANT
 - SIGN
 - UTILITY POLE AND GUY WIRE
 - WB-2 — WETLAND FLAG AND ID. NUMBER
 - PICTURE FOR SHPO

- ABBREVIATIONS**
- CB = CATCH BASIN
 - DI = DRAIN INLET
 - DSH = SANITARY MANHOLE
 - DSM = DRAIN MANHOLE
 - EDA = EDGE OF ASPHALT
 - LP = LIGHT POLE
 - CO = CLEAN OUT
 - GM = GAS METER
 - OHW = OVERHEAD WIRES
 - EM = ELECTRIC METER
 - PFE = FINISHED FLOOR ELEVATION
 - LS = LANDSCAPING
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NO.	DATE	DESCRIPTION

BRETT D. REYNOLDS
 NEW YORK LICENSED PROFESSIONAL ENGINEER - LICENSE NUMBER: 49950

PROJECT ROUTE DESIGN PLANS FOR

 S-M LINE GAS REINFORCEMENT PROJECT
 TOWN OF CARMEL PUTNAM COUNTY, NY

ALBANY OFFICE
 15 Catherine Street, Suite 302
 Albany, NY 12205
 Phone: 518-439-3352 Fax: 518-439-3394

SCALE	DATE	DESIGNED BY	CHECKED BY
AS SHOWN	04/01/17	DAF	BCR
PROJECT NUMBER	03000262A	DRAWING NUMBER	CALAT
SHEET TITLE			
GENERAL PLAN (16 OF 20)			
SHEET NUMBER			
18 of 26			

1. THE LOCATIONS OF THE SIGNS SHOWN ON THE WORK ZONE TRAFFIC CONTROL PLANS AND DETAILS MAY BE ADJUSTED BASED ON SIGHT DISTANCE AND OTHER CONSIDERATIONS. THE FINAL LOCATIONS OF SIGNS ARE SUBJECT TO APPROVAL OF THE ENGINEER.
2. ANY EXISTING SIGNS, INCLUDING OVERHEAD SIGNS, WHICH CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL SIGN LAYOUT SHALL BE COVERED, REMOVED, STORED OR RESET, AS APPROVED BY THE ENGINEER. ALL APPROPRIATE EXISTING SIGNS SHALL BE STORED OR RESET TO THE SAME LOCATION AND SIGN LOCATION UNLESS OTHERWISE REPLACED IN THIS CONTRACT.
3. SIGNS AT OR NEAR INTERSECTIONS SHALL BE PLACED SO THAT THEY DO NOT OBSTRUCT A MOTORIST'S LINE OF SIGHT.
4. ALL WARNING AND REGULATORY SIGNS SHALL BE POSTED ON BOTH SIDES OF MULTI-LANE DIVIDED HIGHWAYS, MULTI-LANE RAMPs, AND ONE-WAY STREETS. IN CASES WHERE LANE RESTRICTIONS REDUCE THE WIDTH OF THE TRAVEL LANE, SIGNS SHALL BE POSTED ON THE RIGHT SIDE OF THE ACTIVE TRAVEL LANE, UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.
5. SIGNS MOUNTED IN THE MEDIAN OF DIVIDED HIGHWAYS WHERE MEDIAN BARRIER IS IN PLACE MAY BE MOUNTED ON THE BARRIER WITH A SADDLE TYPE BRACKET, LAYING THE SIGN DOWN IN A HOUSING POSITION. THIS SHALL NOT BE PERMITTED.
6. THE DIMENSIONS OF WORK ZONE TRAFFIC CONTROL SIGNS ARE DESCRIBED IN THE MUTCD. IN ADDITION TO THE DIMENSIONS, SHALL BE APPROVED BY THE REGIONAL DIRECTOR, OR BY HIS/HER DESIGNEE FOR WORK, WITHIN THE NYSDOT RIGHT-OF-WAY.
7. NYRS-12 MAY BE USED IN PLACE OF NYRS-11.

1. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 500' LONGITUDINAL DISTANCE BETWEEN CONSTRUCTION OPERATIONS ON ALTERNATE SIDES OF THE ROADWAY, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
2. WHEN TWO OR MORE AREAS ARE ADJACENT, OVERLAP, OR ARE IN CLOSE PROXIMITY, THE CONTRACTOR SHALL ENSURE THERE ARE NO CONFLICTING SIGNS AND THAT LANE CONTINUITY IS MAINTAINED THROUGHOUT ALL WORK AREAS.

1. DRIVEWAY ACCESS SHALL BE MAINTAINED AT ALL TIMES WITH THE FOLLOWING ALLOWANCES:

ACCESS TO DRIVEWAYS WILL BE MAINTAINED WHEREVER PRACTICAL OR AS ORDERED BY THE ENGINEER. OWNERS WHOSE DRIVEWAYS WILL BE INACCESSIBLE SHALL BE NOTIFIED NO LESS THAN 24 HOURS IN ADVANCE. ACCESS SHALL BE RESTORED AT THE END OF EACH WORK DAY AND FOR THE WEEKEND UNLESS OTHER SUITABLE ARRANGEMENTS HAVE BEEN MADE WITH THE OWNER.

2. THE COST OF PROVIDING AND MAINTAINING SAFE AND ADEQUATE INGRESS AND EGRESS FOR INTERSECTING HIGHWAYS, HOMES AND COMMERCIAL ESTABLISHMENTS, AT ALL TIMES TO THE SATISFACTION OF THE ENGINEER, SHALL BE INCLUDED IN THE PRICE BID FOR TRAFFIC CONTROL.

1. PROPERTY OWNERS WHOSE DRIVEWAYS WILL BE MADE INACCESSIBLE SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 24 HOURS PRIOR TO RESTRICTING USE OF THE DRIVEWAY. FOR MULTIPLE ACCESS PROPERTIES, AT LEAST ONE DRIVEWAY SHALL BE OPEN AT ALL TIMES. ACCESS SHALL BE RESTORED TO ALL DRIVEWAYS AS SOON AS POSSIBLE.
2. SUITABLE RAMPS SHALL BE INSTALLED TO MAINTAIN SMOOTH TRANSITIONS FROM RESIDENTIAL AND COMMERCIAL DRIVEWAYS TO AND FROM THE WORK AREA.

1. THE CONTRACTOR SHALL LOCATE LANE CLOSURES TO PROVIDE OPTIMUM VISIBILITY, I.E. BEFORE CURVES AND CRESTS, TO THE EXTENT CONDITIONS PERMIT.
2. THE ENGINEER MAY REQUIRE THAT ALL LANES BE RE-OPENED AT ANY TIME IF THE ROUTE IS NEEDED FOR EMERGENCY PURPOSES. THIS COULD INCLUDE INCIDENTS AT LOCATIONS OUTSIDE THE CONTRACT LIMITS.

1. UNLESS AUTHORIZED BY THE ENGINEER, THE MINIMUM LANE WIDTHS FOR WORK ZONE TRAVEL LANES SHALL BE AS FOLLOWS: FREEWAYS AND/OR EXPRESSWAYS IS 11'. THE MINIMUM LANE WIDTH FOR ALL OTHER TYPES OF ROADWAYS IS 10'.
2. THE CONTRACTOR SHALL PROVIDE A WRITTEN NOTICE TO THE ENGINEER, A MINIMUM OF 21 CALENDAR DAYS IN ADVANCE OF PERFORMING ANY WORK THAT RESULTS IN THE REDUCED WIDTH OF AN EXISTING ROADWAY, SO THAT THE ENGINEER MAY NOTIFY THE REGIONAL PERMIT ENGINEER IN A TIMELY MANNER.

1. BARRIER AND SHADOW VEHICLES SHALL BE REQUIRED AS PER STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES".
2. NO WORK ACTIVITY, EQUIPMENT, VEHICLES AND/OR MATERIALS SHALL BE LOCATED BETWEEN THE BARRIER OR SHADOW VEHICLE AND THE ACTIVE WORK AREA (ROLL AHEAD DISTANCE).

I. NO DROP-OFFS SHALL EXIST BETWEEN ANY OF THE FOLLOWING PAVEMENTS OUTSIDE OF WORKING HOURS OR AS DIRECTED BY THE ENGINEER:

TRAVEL LANES

SHOULDER

DRIVEWAY ENTRANCES

SIDEWALKS AND PATHS

1. THE COST OF PROVIDING AND MAINTAINING SAFE AND ADEQUATE VEHICULAR, BICYCLE AND PEDESTRIAN TRAFFIC AT INTERSECTING PAVEMENTS, AT ALL TIMES TO THE SATISFACTION OF THE ENGINEER, SHALL BE INCLUDED IN THE PRICE BID FOR TRAFFIC CONTROL.


THE CONTRACTOR SHALL PROVIDE AN ADEQUATE NUMBER OF COMPETENT FLAGGERS TO CONTROL TRAFFIC WHEN NECESSARY TO MAINTAIN ALTERNATING ONE-WAY TRAFFIC IN ONE LANE OF A TWO-WAY LANE, TWO-WAY ROADWAY, AND AT ALL OTHER LOCATIONS WHERE NECESSARY TO PROVIDE SUFFICIENT TRAFFIC CONTROL TO PROTECT THE ENGINEER. THE CONTRACTOR SHALL NOT UNDERTAKE WORK AT HORE LOCATIONS THAN COMPETENT, TRAINED FLAGGERS ARE AVAILABLE TO SAFELY CONTROL TRAFFIC. ALL FLAGGERS SHALL BE ADEQUATELY TRAINED IN OPERATION OF FLAGGING DEVICES AND PROCEDURES. THIS INCLUDES THE AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA), THE NATIONAL SAFETY COUNCIL, UNIONS, OR CONSTRUCTION INDUSTRY ASSOCIATIONS, OR BY AN INDIVIDUAL WHO HOLDS A CURRENT CERTIFICATION FROM THE NATIONAL SAFETY COUNCIL OR A TRAINING PROGRAM. PRIOR TO THE START OF FLAGGING OPERATIONS, THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER A LIST OF CERTIFIED FLAGGERS TO BE USED ON THE PROJECT, IDENTIFYING THE SOURCE OF FLAGGER TRAINING FOR EACH FLAGGER, OR WHEN AN INDIVIDUAL IS REQUIRED TO BE A FLAGGER ARRIVES ON THE PROJECT, THE INDIVIDUAL WILL PROVIDE TO THE ENGINEER PROOF OF TRAINING. IF THE INDIVIDUAL IS NOT ON A LIST PROVIDED BY THE CONTRACTOR OR DOES NOT PROVIDE PROOF OF TRAINING, THE INDIVIDUAL WILL BE ALLOWED TO ACT AS A FLAGGER ON THE PROJECT, WHEN THE ENGINEER DETERMINE A FLAGGER IS A COMPETENT IN FLAGGING PROCEDURES, THE INDIVIDUAL SHALL BE REPLACED.



1. WORK OCCURRING AFTER SUNSET AND BEFORE SUNRISE WILL BE CONSIDERED NIGHTTIME OPERATIONS. ALL WORKERS INVOLVED IN NIGHTTIME OPERATIONS SHALL WEAR PROTECTIVE HELMETS AND NIGHTTIME APPAREL IN ACCORDANCE WITH ANSI 107, CLASS 3.
2. THE CONTRACTOR SHALL NOT WORK AFTER SUNSET OR BEFORE SUNRISE WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
3. VEHICLES OPERATING ON THE PAVEMENT OF A CLOSED ROADWAY OR TRAVEL LANE SHALL DISPLAY FOUR-WAY FLASHERS OR ROTATING AMBER BEACONS AT ALL TIMES. VEHICLES USING HEADLIGHTS, EXCEPT FOR ROLLERS AND VEHICLES RETRIEVING CHANNELIZING DEVICES SHALL TRAVEL IN THE SAME DIRECTION AS ADJACENT TRAFFIC IN ORDER TO AVOID GLARE AND CONFUSION TO DRIVERS.
4. THE ENGINEER'S APPROVAL FOR NIGHTTIME OPERATIONS SHALL BE CONTINGENT UPON THE CONTRACTOR HAVING SUBMITTED AND BEEN APPROVED A NIGHTTIME OPERATIONS AND LIGHTING PLAN. THE PLAN IS TO BE SUBMITTED TO THE ENGINEER AT LEAST 14 DAYS PRIOR TO THE START OF NIGHTTIME OPERATIONS. FOR DETAILS OF THE PLAN REQUIREMENTS THE CONTRACTOR IS TO CONSULT WITH THE ENGINEER.

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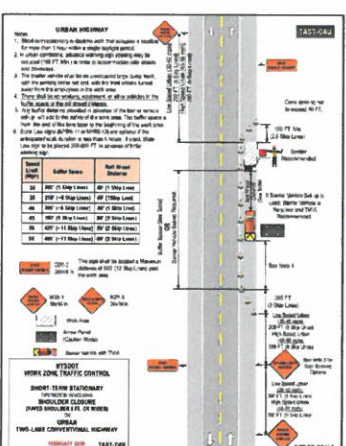
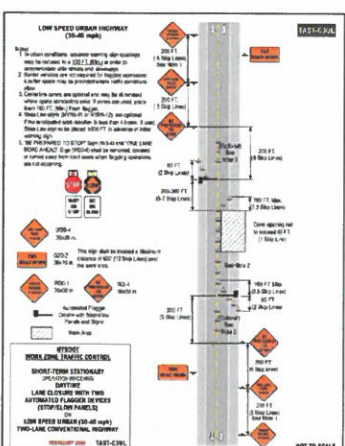
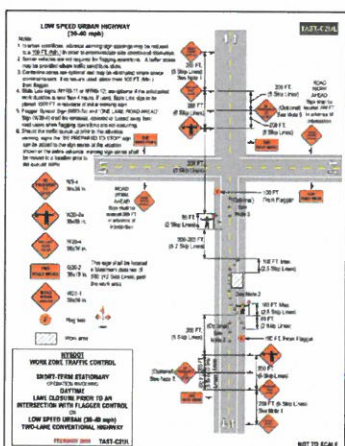
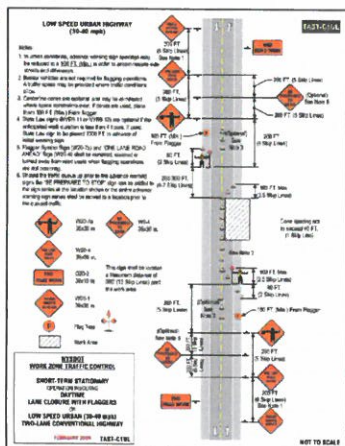
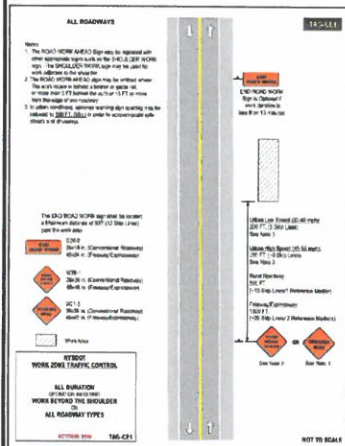
PROJECT ROUTE DESIGN
PLANS
FOR

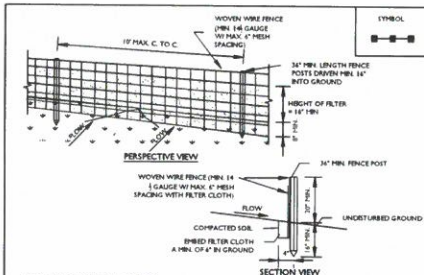


S - M LINE GAS
REINFORCEMENT PROJECT

TOWN OF CARMEL
PUTNAM COUNTY, NY

SCALE AS SHOWN	DATE 04/20/17	DRAWN BY DAF	CHECKED BY BDR
PROJECT NUMBER 15000624A		DRAWING NAME C-WZTC	
SHEET TITLE WORK ZONE TRAFFIC CONTROL NOTES & DETAILS			
SHEET NUMBER 23 of 26			

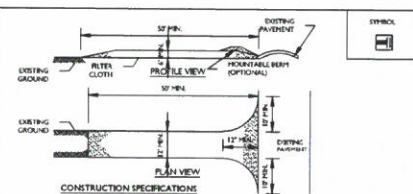




CONSTRUCTION SPECIFICATIONS

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER 1" OR 1 1/2" TYPE OR HARDWOOD.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 34" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12" X 14" GAUGE, 1/2" MAXIMUM MESH OPENING.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER 100% STABILIZATION, OR APPROVED EQUIVALENT.
- PREFABRICATED UNITS SHALL BE GEOTEXTURE OR APPROVED EQUIVALENT.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

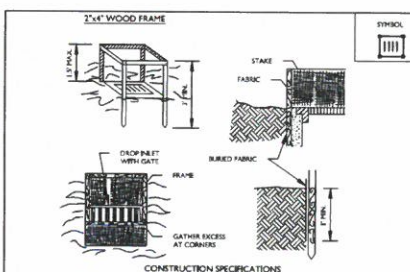
1 SILT FENCE
SCALE N.T.S.



CONSTRUCTION SPECIFICATIONS

- STONE SIZE - USE 3" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
- FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTAINABLE BERM WITH 1:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SHILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

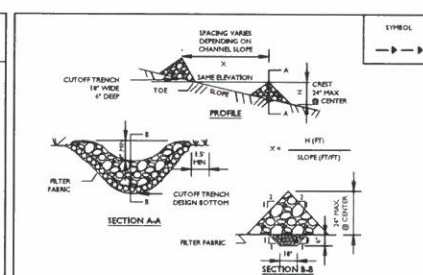
2 STABILIZED CONSTRUCTION ENTRANCE
SCALE N.T.S.



CONSTRUCTION SPECIFICATIONS

- FILTER FABRIC SHALL HAVE AN BOS OF 45-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
- CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
- STAKE MATERIALS WILL BE STANDARD 2" X 4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH OF 3 FEET.
- SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPACES GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
- FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
- A 2" X 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY. MAXIMUM DRAINAGE AREA 1 ACRE.

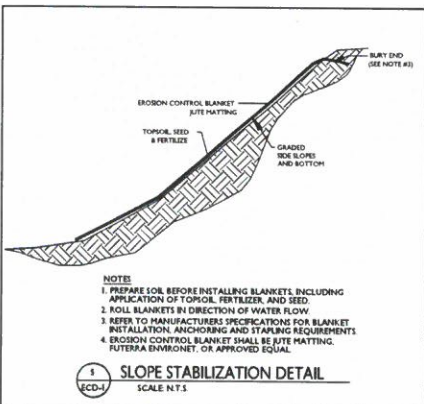
3 DROP INLET FILTER FABRIC PROTECTION
SCALE N.T.S.



CONSTRUCTION SPECIFICATIONS

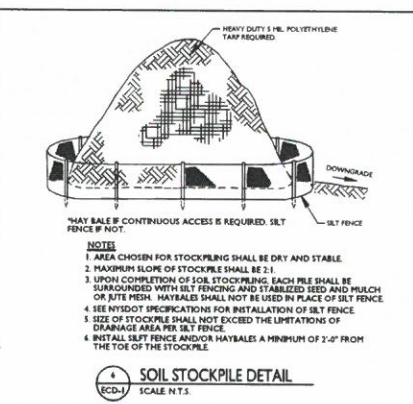
- STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
- SET SPACING OF CHECK DAMS TO ASSURE THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
- EXTEND THE STONE A MINIMUM OF 15 FEET BEYOND 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 STONE.
- MAXIMUM DRAINAGE AREA 1 ACRES.

4 CHECK DAM
SCALE N.T.S.



- NOTE
- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF TOPSOIL, FERTILIZER, AND SEED.
 - ROLL BLANKETS IN DIRECTION OF WATER FLOW.
 - REFER TO MANUFACTURERS SPECIFICATIONS FOR BLANKET INSTALLATION, ANCHORING AND STAKING REQUIREMENTS.
 - EROSION CONTROL BLANKET SHALL BE JUTE MATTING, RUTTERA ENHANCED, OR APPROVED EQUAL.

5 SLOPE STABILIZATION DETAIL
SCALE N.T.S.



- NOTE
- AREA CHOSEN FOR STOCKPILING SHALL BE DRY AND STABLE.
 - MAXIMUM SLOPE OF STOCKPILE SHALL BE 2:1.
 - UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH SILT FENCING AND STABILIZED SEED AND MULCH.
 - SEE NYSDOT SPECIFICATIONS FOR INSTALLATION OF SILT FENCE.
 - SIZE OF STOCKPILE SHALL NOT EXCEED THE LIMITATIONS OF DRAINAGE AREA PER SILT FENCE.
 - INSTALL SILT FENCE AND/OR HAYBALES A MINIMUM OF 2'-0" FROM THE TOE OF THE STOCKPILE.

6 SOIL STOCKPILE DETAIL
SCALE N.T.S.

STORM WATER POLLUTION PREVENTION AND TEMPORARY SOIL EROSION AND SEDIMENT CONTROL NOTES

- THE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF ANY APPLICABLE FEDERAL OR STATE CERTIFICATION/PERMITS THAT PERTAIN TO THIS PROJECT.
- EROSION CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH NYSDOT REQUIREMENTS AND DETAILS PROVIDED ON THE PLANS AND AS PER THE MANUFACTURERS REQUIREMENTS.
- ALL EROSION AND SEDIMENT CONTROLS NECESSARY SHALL BE INSTALLED PRIOR TO WORK IN THAT AREA. EROSION AND SEDIMENT CONTROLS MUST BE CHECKED A MINIMUM OF EVERY 7 CALENDAR DAYS. ANY MAINTENANCE NECESSARY SHOULD BE PERFORMED WITHIN 48 HOURS.
- CHECK DAMS SHOULD BE CHECKED AFTER EVERY STORM FOR DAMAGE, OVERTOPPING OR CLOGGING WITH SEDIMENT. REPAIRS OR MAINTENANCE SHOULD TAKE PLACE AS SOON AS DETEIORATION IS NOTICED.
- CONSTRUCTION ENTRANCE TRACKING PADS SHOULD BE CHECKED DAILY FOR CLOGGING OR BUILDUP AND MAINTAINED TO KEEP FROM TRACKING SEDIMENT ONTO THE TRAVEL LANES.
- ALL DEWATERING OR PUMPING OPERATIONS (IF NEEDED) REQUIRE DIRT BAGS, SILT SACKS, AND/OR TEMPORARY SEDIMENT CONTROL BARRIERS. ALL WATERS DISCHARGED SHALL BE CLEAR OF ALL SEDIMENT.
- ALL EROSION CONTROL MEASURES SHOULD BE CHECKED BY THE ENGINEER (OR INSPECTOR) TO INSURE PROPER PLACEMENT OF ALL FEATURES.
- ALL STABILIZING AREAS SHALL PROVIDE THE FOLLOWING:
 - STABILIZED CONSTRUCTION ENTRANCE
 - SILT FENCE
 - CATCH BASIN PROTECTION
 - OFFSITE STORMWATER DISCHARGE
- SEDIMENT REMOVED FROM EROSION AND SEDIMENT CONTROL MEASURES WILL BE EXPORTED FROM THE SITE OR STOCKPILED AT CONSTRUCTION STAGING AREA FOR LATER USE.

MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES

- PERMANENT AND TEMPORARY VEGETATION
 - INSPECT ALL AREAS THAT HAVE RECEIVED VEGETATION EVERY SEVEN DAYS. ALL AREAS DAMAGED BY EROSION OR WHERE SEED HAS NOT ESTABLISHED SHALL BE REPAIRED AND REESTABLISHED IMMEDIATELY.
- STABILIZED CONSTRUCTION ENTRANCE
 - INSPECT THE ENTRANCE PAD EVERY SEVEN DAYS. CHECK FOR MUD, SEDIMENT BUILD-UP AND PAD INTEGRITY. MAKE DAILY INSPECTIONS DURING WET WEATHER. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL. WASH AND REPLACE STONE AS NEEDED. THE STONE IN THE ENTRANCE SHOULD BE WASHED OR REPLACED WHENEVER THE ENTRANCE FAILS TO REDUCE MUD BEING CARRIED OFF-SITE BY VEHICLES. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. REMOVE TEMPORARY CONSTRUCTION ENTRANCE AS SOON AS THEY ARE NO LONGER NEEDED TO PROVIDE ACCESS TO THE SITE.
- SILT FENCE
 - INSPECT FOR DAMAGE EVERY SEVEN DAYS. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE UNDESIRABLE FACE OF THE FENCE BEFORE IT ACCUMULATES TO A HEIGHT EQUAL TO 1/3 THE HEIGHT OF THE FENCE. IF FENCE FABRIC TEARS, BEGINS TO DECOMPOSE OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED SECTION OF FENCE IMMEDIATELY.
- SOIL STOCKPILE
 - INSPECT SEDIMENT CONTROL BARRIERS (SILT FENCE OR HAY BALES) AND VEGETATION FOR DAMAGE EVERY SEVEN DAYS. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE DOWN-SLOPE FACE OF THE SEDIMENT CONTROL BARRIER BEFORE IT ACCUMULATES TO A HEIGHT EQUAL TO 1/3 THE HEIGHT OF THE SEDIMENT CONTROL BARRIER. IF SEDIMENT CONTROL BARRIER TEARS, BEGINS TO DECOMPOSE OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED SECTION OF SEDIMENT CONTROL BARRIER IMMEDIATELY. RE-VEGETATE DISTURBED AREA TO STABILIZED SOIL STOCK PILE. REMOVE THE SEDIMENT CONTROL BARRIER WHEN THE SOIL STOCKPILE HAS BEEN REMOVED.
- SOIL STOCKPILE
 - DISCUSS CONSTRUCTION OPERATIONS TO MINIMIZE THE AMOUNT OF DISTURBED AREAS AT ANY ONE TIME DURING THE COURSE OF WORK. APPLY TEMPORARY SOIL STABILIZATION PRACTICES SUCH AS MULCHING, SEEDING, AND SPRAYING (WATER). STRUCTURAL MEASURES (PULCHSEEDING) SHALL BE INSTALLED IN DISTURBED AREAS BEFORE SIGNIFICANT BLOWING PROBLEMS DEVELOP. WATER SHALL BE SPRAYED AS NEEDED. REPEAT AS NEEDED, BUT AVOID EXCESSIVE SPRAYING, WHICH COULD CREATE RUNOFF AND EROSION PROBLEMS.
- CHECK DAM
 - INSPECT CHECK DAMS EVERY SEVEN DAYS. IF SIGNIFICANT EROSION HAS OCCURRED BETWEEN STRUCTURES A LINER OF STONE OR OTHER SUITABLE MATERIAL SHOULD BE INSTALLED IN THAT PORTION OF THE CHANNEL. REMOVE SEDIMENT ACCUMULATED BEHIND THE DAM AS NEEDED TO ALLOW CHANNEL TO DRAINAGE THROUGH THE STONE CHECK DAM AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. REPLACE STONES AS NEEDED TO MAINTAIN THE DESIGN CROSS SECTION OF THE STRUCTURES. REMOVE CHECK DAMS AS PER APPROVAL OF THE ENGINEER.

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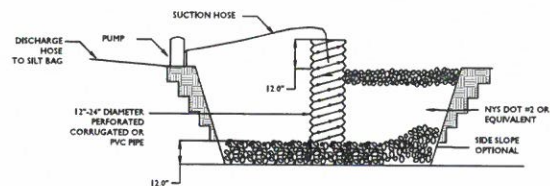
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PUTNAM COUNTY, NY

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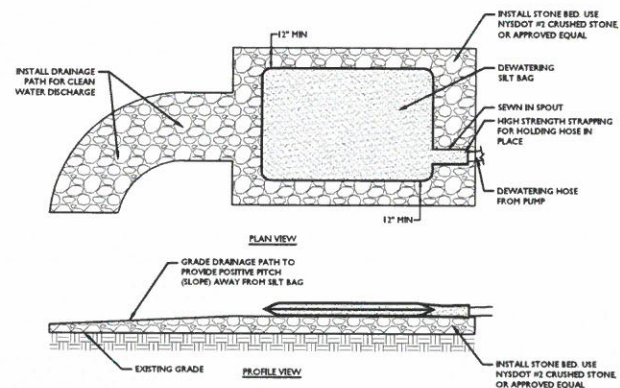
SOIL EROSION & SEDIMENT CONTROL PLAN

1. INSTALLATION AND USE.
 - a. PLACE DEWATERING TUBE ON THE GROUND OR ON A RELATIVELY LEVEL, STABILIZED AREA.
 - b. INSERT DISCHARGE PIPE A MINIMUM OF 3 FEET INSIDE DEWATERING TUBE AND SECURE PER MANUFACTURER'S RECOMMENDATIONS.
 - c. ALLOW DEWATERING TUBE TO FILL WITH SEDIMENT OR WHEN THE SEDIMENT HAS REDUCED THE FLOW RATE TO THE PUMP DISCHARGE TO AN IMPRACTICAL AMOUNT.
 - d. STOP PUMPING AND REMOVE THE TUBE. DO NOT ALLOW ANYTHING WATER BEING PUMPED ON THE SITE THE PURPOSE OF A DEWATERING TUBE IS TO COLLECT WATER CONTAINED IN THE DEWATERED WATER, TO PREVENT THE SCOUR AND EROSION FROM EXISTING AT THE PUMP AT HIGH VELOCITY, TO DRAIN THE WATER OVER A MEDIA AREA TO MINIMIZE EROSION AS THE WATER DRAINS AWAY, AND TO RETAIN OIL CONTAINED WITHIN EFFLUENT.
2. MAINTENANCE AND DISPOSAL.
 - a. REMOVE AND DRAIN OF ACCUMULATED SEDIMENT AWAY FROM WATERWAYS OR ENVIRONMENTALLY SENSITIVE AREAS. OPEN BOTH ENDS OF THE DEWATERING TUBE, PICK IT UP BY THE CENTER AND DROP ACCUMULATED SEDIMENT OUT OR BOTH ENDS ALLOW TO DRAIN FOR A FEW FEET.



CONSTRUCTION SPECIFICATIONS

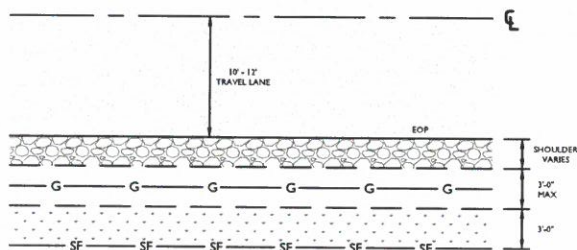
1. FIT DIMENSIONS ARE OPTIONAL.
2. THE STANDPIPE SHOULD BE CONSTRUCTED BY PERFORATING A 12-14" DIAMETER CORRUGATED OR PVC PIPE.
3. A BASE OF 2" AGGREGATE SHOULD BE PLACED IN THE PIT TO A DEPTH OF 12". AFTER INSTALLING THE STANDPIPE, THE PIT SURROUNDING THE STANDPIPE SHOULD BE BACKFILLED WITH 2" AGGREGATE.
4. THE STANDPIPE SHOULD EXTEND 12-18" ABOVE THE TOP OF THE PIT.
5. IF DISCHARGE WILL BE RUNNED DIRECTLY TO A STORM DRAINAGE SYSTEM, THE STANDPIPE SHOULD BE WRAPPED WITH FILTER CLOTH BEFORE INSTALLATION. IF DESIRED, 1/4"-1/2" HARDWARE CLOTH MAY BE PLACED AROUND THE STANDPIPE PRIOR TO ATTACHING THE FILTER CLOTH.



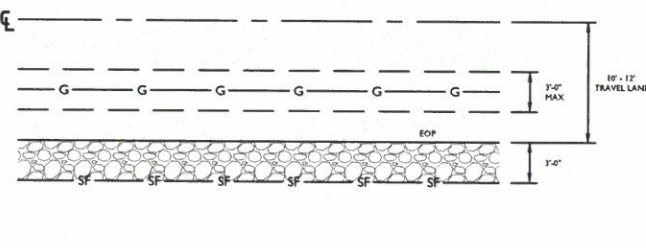
1 DEWATERING TUBE DETAIL
ECD-2 SCALE N.T.S.

2 PUMP PIT FOR TEMPORARY DEWATERING
EOD-2 SCALE: N.T.S.

3 SEDIMENT BAG DETAIL
ECD-2 SCALE N.T.S.



IN-SHOULDER INSTALLATION







IN ROAD INSTALLATION

4 TYPICAL SILT FENCE INSTALL DETAIL
ECD-2 SCALE N.T.S.

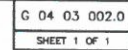
—— G —— G —— PROPOSED GAS LINE
—— SF —— SF —— PROPOSED SILT FENCE

NOTE:
SILT FENCE IS NOT REQUIRED IF THE
SHOULDER IS HIGHER IN ELEVATION THAN
THE EXISTING ROAD, THE SHOULDER IS A
ROCK OUTCROPPING, OR IF A STONE WALL
EXISTS WITHIN 3' OF THE EDGE OF PAVEMENT.

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			TITLE: SOIL EROSION AND SEDIMENT CONTROL PLAN		
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| GAS STANDARDS | | CENTRAL HUDSON GAS & ELECTRIC CORP. | DATE | 8/15 |
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ENGR.	DWS		APP.	EJK
APP	KJF			

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