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TOWN OF CARMEL PLANNING BOARD



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

Director of Code

Enforcement

RICHARD FRANZETTI, P.E. Town Engineer

> PATRICK CLEARY, AICP,CEP, PP, LEED AP Town Planner

VINCENT FRANZE
Architectural Consultant

PLANNING BOARD AGENDA SEPTEMBER 27, 2017 – 7:00 P.M.

MEETING ROOM #2

TAX MAP # PUB. HEARING MAP DATE COMMENTS

Pl	JBLIC HEARING				
1.	Hilltop Manor Realty – 164 East Lake Blvd	76.22-1-5	09/27/17	07/15/17	Public Hearing/Resolution
2.	NY Fuel Distributors (Coco Farms) 1923 Route 6	55.11-1-40	09/27/17	06/20/17	Amended Site Plan
SI	TE PLAN				
3.	Central Hudson Gas & Electric Corp – 340 Bullet Hole Road	53.17-1-38		08/30/17	Site Plan
4.	Easter Seals New York – 97 Old Route 6	55.11-1-23,24 25 & 27		09/13/17	Amended Site Plan
M	SC.				
5.	Wixon Pond Estates – 243 Wixon Pond Road	53.20-1-19			Extension of Preliminary Subdivision Approval
6.	Smajlaj, Zef – 803 South Lake Blvd	75.42-1-39			Extension of Final Site Plan Approval
7.	PCSB/Mahopac Branch – 150 Route 6	86.11-1-1			Bond Return
8.	Gateway Summit Senior Housing – Lot 6 Gateway Drive	55. -2-24 .6-1 55 2-24 .6-2			Extension of Final Amended Site Plan
9.	The Fairways Senior Housing - Lot 7 Gateway Drive	552-24.8-1 552-24.8-2			Extension of Final Amended Site Plan

TOWN BOARD REFERRAL

10. Proposed Ordinance Regarding Wireless Telecommunications

Discussion



September 20, 2017

New York State Department of Transportation 4 Burnett Boulevard Poughkeepsie, NY 12603 Attn: Gregory V. Bentley Sr., P.E.

RE: NYSDOT SEQR #: 14-0078
Proposed CoCo Farms Gasoline Station and Convenience Market
Map 55.11, Block 1, Lot 40
1923 U.S. Route 6
Town of Carmel
Putnam County, New York 10512
SE&D Job No.: S-14141

Dear Mr. Bentley:

Stonefield Engineering and Design, LLC ("Stonefield") is pleased to resubmit documents for the above-referenced project. Revisions were made to the Site Plan to address the comments issued by the Department's review letter dated September 13, 2017. The following is an itemized response to each comment:

The proposal to allow left turns into the site from Route 6 at the eastern entrance is conditionally approved. Should operational difficulties or an accident pattern develop the Department will impose a left turn ingress restriction. We require that the following note be added to the plans, called out to the eastern driveway: "OPERATION OF THE SITE EXIT DRIVEWAY IS TO BE MONITORED AFTER OPENING OF THE SITE TO ENSURE SAFE AND EFFICIENT DRIVEWAY OPERATION. IF DEEMED NECESSARY, AND AT THE SOLE DESCRETION OF THE NYSDOT, ADDITIONAL DRIVEWAY TURN RESTRICTIONS MAY BE IMPOSED IN THE FUTURE."

Response: This comment is noted. The requested note was added to the Site Plan and is called out at the easterly driveway along U.S. Route 6.

 The channelization island between the two driveways on Route 6 must be reconstructed to facilitate two-way traffic at the eastern entrance.

Response: As shown on the Site Plan, the easterly driveway has been designed to accommodate two-way traffic.

3) No left turn egress will be permitted from either access drive on Route 6. Signage must be installed prohibiting left turns out of both driveways on the State Highway.

Response: As shown on the Site Plan, MUTCD-compliant signage restricting left-turn egress is provided at both driveways along U.S. Route 6.

4) The shoulder on Route 6 adjacent to the site must be milled and re-paved. This can be done under the required Highway Work Permit (HWP).

Response: The Site Plan shows milling and repaving of the shoulder adjacent to the site. This improvement was requested by Mr. Rock DeNigro during earlier reviews of the Site Plan.

5) It is noted that the subject proposal has no sidewalk along either frontage.

Response: This comment is noted.

6) A crosswalk on Route 6 would improve pedestrian safety for users of the PARC facility.

Response: Based on our discussions following the issuance of the Department's September 13, 2017 letter, it is Stonefield's understanding that this comment pertains to a potential midblock, unsignalized pedestrian crossing of U.S. Route 6 between the subject site and the adjacent McDonald's property to the east for the benefit of the PARC facility on the north side of U.S. Route 6. Stonefield has a concern with a midblock crossing of U.S. Route 6 given the prevailing speeds, vertical and horizontal curvature conditions (primarily east of the site near the Old Route 6 intersection), and driver expectations on this arterial roadway. The 85th-percentile speed on U.S. Route 6 near the subject site was calculated in 2015 to be 47.8 miles per hour in the eastbound direction and 44.4 miles per hour in the westbound direction; the posted speed limit on the roadway is 40 miles per hour, so the majority of drivers exceeded the speed limit when the study was performed. Introducing a midblock, unsignalized pedestrian crossing on a roadway that does not currently provide such features may violate driver expectations and give pedestrians the false sense of security that drivers will stop for them because they happen to be in the crosswalk (source: Highway Design Manual, 18.7.8). Additionally, Exhibit 18-19 in the Highway Design Manual indicates that "marked crosswalks alone are insufficient" on a two-lane arterial with an AADT between 12,000 and 15,000 vehicles per day and posted speed limit of 40 miles per hour, which are the characteristics of U.S. Route 6 in the vicinity of the subject site.

Since the PARC facility and pedestrian desire lines are existing conditions that would need to be addressed regardless of the proposed development, the applicant is not proposing a midblock, unsignalized crosswalk on U.S. Route 6. However, the applicant understands and is sympathetic to the pedestrian concerns and is willing to construct a new sidewalk (where none exists) along the south side of U.S. Route 6 between its property and McDonald's so there is a landing place for pedestrians should the Department decide to install the midblock, unsignalized pedestrian crossing with enhanced traffic safety/calming features in the future.

7) The proposed permit work is near a NYSDOT traffic signal, highway light, or other device with loop detection and/or buried conduit. The permittee shall locate all such underground facilities and note such on the construction plans. Damage to underground facilities are the responsibility of the permittee. Signal loops and conduit are not covered by UFPO call out and require a separate call out notification to the NYSDOT.

Response: This comment is noted. Note 18 was added to the Site Plan to address the above.

8) Please submit subsequent plans and documents for this project as well as those for any future development proposals in DIGITAL (.pdf) FORMAT -CD, DVD or Thumb drive.

Response: This comment is noted. Digital (.pdf) format plans are provided herein with this Comment Response Letter.

9) Lead Agency approval under SEQR is required in advance of permitting.

Response: This comment is noted.

10) Please reference the SEQRA number 14-0078 on all future correspondence.

Response: This comment is noted.

Additionally, in support of the revisions, we have enclosed the following documents:

1. Site Plan (Sheet 4), prepared by Stonefield and dated September 20, 2017.

Should you have any questions, or require any additional information, please do not hesitate to contact our office.

Best regards,

Jeffrey Martell, PE, PP, CME, LEED AP

Stonefield Engineering and Design, LLC

Frank A. Filiciotto, PE

Stonefield Engineering and Design, LLC

cc: Danny Porco - NY Fuel Distributors, LLC

Leo Napior, Esq. - Harfenist Kraut & Perlstein, LLP

Rock DeNigro – NYSDOT Putnam County Permit Engineer Harold Gary – Chairman, Town of Carmel Planning Board Craig Paeprer – Vice Chairman, Town of Carmel Planning Board Richard Franzetti, PE – Town of Carmel Engineering Department

Dr. John Collins, PE, PhD - Maser Consulting (Traffic Consultant to the Town of Carmel)

S\2014\S-14141 Coco Farms, Carme\Correspondence\Letters-Memos\2017-09 Comment Response Letter\2017-09-20_DOT Comment Response Letter docx

TABLE OF LAND USE AND ZONING	PARKING REQUIREMENT	CONDITIONAL USE CR			SIGNAGE REQUIREMENTS				
BLOCK I, LOT 40 COMMERCIAL (C)	ORDINANCE SECTION REQUIRED PROPOSED	§ 156-30 AUTOMOTIVE USES REQUIRED MINIMUM LOT AREA 20,000 SF	PROPOSED 40,048 SF	§SECTION 156-41-C.4	NOT MORE THAN ONE EXTERIOR	PROPOSED 2 BUILDING			
PROPOSED USE	200 SF = 1,824/200 = 10 SPACES SPACES 10 PARKING SPACES REQUIRED	MINIMUM LOT WIDTH 200 FT MINIMUM SEPARATION FROM 1,000 FT	228 FT ± 940 FT (EN)		SIGN SHALL BE PERMITTED FOR EACH COMMERCIAL ESTABLISHMENT ON EACH WALL	MOUNTED WALL SIGNS AND 2 CANOPY MONTED	`		M M M E N T (
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Engineers
Planners
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September 9th, 2017

Town of Carmel Planning Department Town of Carmel Town Hall 60 McAlpin Ave Mahopac, NY 10541

In response to the initial comments offered by various Town offices after their review of the S-M Line Gas Distribution Reinforcement Project, Maser Consulting responds with the following information.

Town Code Enforcement Office:

The comments noted below correspond to comments received from the Code Enforcement Officer through memos, in-person meeting and phone conversations:

Memo dated June 14, 2017

No Comments.

Town Engineer's Office:

The comments noted below correspond to comments received from the Town Engineer through memos, in-person meeting and phone conversations:

Memo dated June 21, 2017:

General Comments:

- 1. Permits from the following would appear necessary:
 - a) New York State Department of Transportation
 - b) Putnam County Highway (Highway work permit)
 - c) New York State Department of Environmental Conservation (wetlands and, stormwater)
 - d) Town of Carmel Highway (Driveway and work within right of way)
 - e) Town of Carmel Environmental Conservation Board (wetlands)

<u>Response:</u> We agree with this list. Central Hudson will be applying to various agencies in October to obtain necessary permits. Copies of those permits, along with a comprehensive list of permit expiration dates will be supplied to the Town prior to construction. It is anticipated all permits will be in place by the end of 2017.

2. Should any public improvements be deemed necessary as part of the development of the tract, a Performance Bond and associated Engineering Fee must eventually be established for the work. This includes erosion and sediment control and permanent stormwater management practices.



Response to Town Comments S-M Gas Line Project MC Project No. 15000624A September 9, 2017 Page 2 of 7

<u>Response</u>: Central Hudson will prepare a Letter of Undertaking in lieu of a Construction Performance Bond. Various inspection fees will be paid to the Town. Central Hudson will require notification of Inspection Fee amounts so they may be paid.

Pressure Regulator System – 340 Bullet Hole Road:

1. Additional silt fence should be provided along the west and south sides of the property.

Response: Additional Site Fence has been added to revised plans.

2. The applicant does not address stormwater runoff from the site. There is concern about additional runoff entering onto Bullet Hole Road.

<u>Response:</u> Under NYSDEC's GP-0-15-002 permit, Appendix B Table 1, this project is not required to address post construction stormwater management. However, we propose the use of open graded stone at the pressure regulator station to help infiltrate stormwater runoff that may be generated from the site.

3. The applicant now proposes work in the Town of Carmel Right of Way (R.O.W.) and therefore, approval is required from the Town of Carmel Highway Department.

<u>Response:</u> Central Hudson and Maser Consulting has met separately with the Town Highway Department to address their concerns. The project will be applying for Town road opening permits.

4. Available sight distances at each driveway location should be specified on plan. Any clearing along the edge of the roadway R.O.W. that may be necessary to assure appropriate sight distances are provided, should be identified.

Response: Site Distance information will be provided.

5. Driveway cross-sections should be added to the plan.

<u>Response:</u> Typical driveway cross section details have been provided on revised plans.

6. It is recommended that a gate be provided at the entrance to deter unwanted vehicle access to the site.

<u>Response</u>: During in-person meetings with various Town offices, this comment was retracted by the Town. Please note, there will be a gate further into the site to allow vehicles to clear the roadway and park before they encounter the gate.

7. All re-grading required to accomplish the intended development must be shown.

Response: Grading has been provided on revised plans.

8. Additional screening plants should be provided along the west side of the property.



Response to Town Comments S-M Gas Line Project MC Project No. 15000624A September 9, 2017 Page 3 of 7

<u>Response:</u> During in-person meetings with various Town offices the Town Planner stated the proposed plantings were sufficient. No further plantings have been provided.

9. All plantings shall be installed per §142 of the Town of Carmel Town Code.

Response: Notes have been added to the revised plans to reflect this comment.

Gas Line Installation:

1. A detailed traffic safety plan should be provided for the project. Copies should be provided to the Putnam County and Town of Carmel Highway Departments for review/approval.

<u>Response</u>: A Traffic and Detour Plan have been provided in revised plans. This plan will be submitted to NYSDOT and Putnam County as part of their permitting process.

Town Planning Office:

The comments noted below correspond to comments received from the Town Planner through memos, inperson meeting and phone conversations:

Memo dated June 28, 2017

Site Plan Review Comments:

1. Highway work permits will be required for the gas line installation from the NYSDOT, Putnam County Highway Dept. and Town Highway Dept.

<u>Response</u>: Central Hudson will be applying to various agencies in October to obtain necessary permits. Copies of those permits, along with a comprehensive list of permits expiration dates will be supplied to the Town prior to construction. It is anticipated all permits will be in place by the end of 2017.

2. Details of the proposed evergreen landscaping at the regulator station is required.

<u>Response:</u> Tree Planting details, and a revised planting plan have been provided on revised plans.

3. It is recommended that vinyl slating be installed in the chain link fence to screen the equipment. What type of gate is proposed?

<u>Response:</u> During in-person meetings with various Town offices, this comment was retracted by the Town. Vinyl Slating would create an issue for Central Hudson's security inspections. A black coated chain link fence will be provided instead of slats. Regulator Station equipment will be painted a dark green color to help mitigate visual impacts of the site. A double-leaf, chain-link swing gate is proposed.



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4. It appears that razor ribbon or barbed wire is proposed along the top of the fence. As the site is located within a residential area, are other less menacing security measures available?

<u>Response:</u> Barbed Wire is no longer proposed. Fencing will be increased from 6-ft to 8-ft tall to mitigate security concerns.

5. Is any site lighting proposed?

Response: No, site lighting is not proposed.

6. Clarify if the operation of the regulator station will routinely produce odor, noise or emissions of any type.

<u>Response:</u> No routine emissions will be produced by the new regulator station. Similar to the regulator station located at Stillwater Road in the Town of Carmel, the new regulator station may produce an intermittent, low-level "whooshing" hum sound during cold winter periods when natural gas throughput is high. A high-efficiency, low-sound natural gas heater at the new regulator station may operate intermittently during similar cold winter periods, expelling its exhaust from an exhaust stack within the regulator station.

Environmental Review Board:

The comments noted below correspond to comments received from the Environmental Review Board on July 20th, 2017. The 5-member ECB lacked a quorum due to two members being unable to attend. Therefore, the ECB held a semi-informal meeting for our team to discuss the project and receive comments. However, the ECB was unable to take any official actions without a quorum in place.

ECB Meeting on July 20, 2017:

1. The project's SWPPP and notes on the Plans need to include provisions for Spill Kits (multiple) to be kept on the construction site at all times.

<u>Response:</u> Notes concerning Spill Kits have been provided on revised plans and within the revised SWPPP.

2. The project's SWPPP and notes on the Plans need to include provisions for Equipment Fueling Plans.

<u>Response:</u> Notes concerning Fueling Plans have been provided on revised plans and within the revised SWPPP.

3. In the event equipment is stored overnight, in any area not on asphalt or protected from spills, it will need to be placed on top of a "poly" mat to protect from leaks.

<u>Response:</u> Notes concerning this requirement have been provided on revised plans. Please note it is the intent of this project to typically mobilize and demobilize the work zone at the end of each day. Construction Equipment should



Response to Town Comments S-M Gas Line Project MC Project No. 15000624A September 9, 2017 Page 5 of 7

typically be stored in the Staging Area on existing pavement although any equipment that is stored along the project route will be stored on poly sheeting.

4. The Construction Sequence Plan provided in the SWPPP needs to be revised to provide more detail, including approximate dates for construction and how the gas line will be constructed (linear or varying sections). The construction sequence also needs to be provided to the ECB as its own standalone document.

<u>Response:</u> Construction Sequence Plan has been revised in the SWPPP. A standalone copy is also provided in this submittal. Please note, at the Pre-Construction meeting the Contractor (yet to be retained) will provide a construction schedule; at such time, the Construction Sequence Plan will be updated.

5. The applicant will need to provide a finalized SWPPP to the ECB with Town Engineer signed approval.

<u>Response:</u> During in-person meetings with various Town offices this comment was discussed. It is our understanding this is not required for the ECB to accept our wetland permit application. It is however required before the ECB signs the permit. We will coordinate with the Town Engineer and other involved boards so a finalized SWPPP is prepared before the ECB issues their wetlands permit.

6. The ECB will need Certifications of Clean Fill to be used on site.

<u>Response:</u> A note will be added to the plans instructing the contractor of this requirement. Certifications will be provided during construction.

7. All other environmental permits need to be completed and evidence of permits provided to the ECB.

Response: During in-person meetings with various Town offices, this comment was discussed. It is our understanding that other environmental permits are not required for the ECB to accept our wetland permit application. However, it is required before the ECB issues their permit. We will coordinate with other permitting agencies to provide proof the project has begun a permitting process so ECB can accept our application. Once other environmental permits have been received, a copy of each will be forwarded to the ECB.

8. All conditions the ECB places on the project must be reflected in the form of notes on the Final Plans.

<u>Response:</u> To date, ECB comments have been added to revised plans. Any further conditions from the ECB will also be added to plans.

9. The ECB requires silt fencing to be placed in front of construction path and then inspected for proper installation. The contractor will not be allowed to move forward with excavation and construction until silt fence is installed properly and inspected.

Response: Notes concerning silt fence inspections have been added to the SWPPP.



Response to Town Comments S-M Gas Line Project MC Project No. 15000624A September 9, 2017 Page 6 of 7

Town Highway Department:

The comments noted below correspond to comments received from the Superintendent of Highways through e-mails and in-person meetings:

Meeting Held on Aug 22, 2017

1. Culverts and how you plan work around them – additional details will be required;

<u>Response</u>: Work around most culverts will be by open-cut. Details have been provided on revised plans for culvert crossings. Also, various tables have been provided on revised plans to show locations of known culvert crossings, including the municipal ownership (Town, County, State) of each.

2. Road crossing permits (note there are 17 which you have identified on the drawings, however we count \sim 14 more once you start adding the various stubs).

<u>Response</u>: Central Hudson will be applying to various agencies in October to obtain necessary permits. A table has been provided in revised plans to inventory and show locations of road crossings.

3. Road bonds;

<u>Response:</u> Central Hudson will prepare a Letter of Undertaking in lieu of a Construction Performance Bond. The Letter of Undertaking will stay in effect 1 calendar year after the project is completed, as requested by the Superintendent of Highways.

4. How road work is being performed and the associated restoration;

<u>Response</u>: The project will generally be constructed in a linear fashion, starting at Bullet Hole Road and ending at NYS Route 6. Full restorations (pavement or turf) are proposed. This includes a full asphalt section (Top, Binder, Base & Subbase) at all road openings. As discussed in the meeting, Wixon Pond Road will be restored with Binder Asphalt only. The Road will be paved (or overlaid) by Town forces at a later date. Central Hudson and the Town Highway Department will determine a mutually acceptable fee that Central Hudson will submit to the Town Highway Department in lieu of Central Hudson completing this task.

5. Staging area(s) location(s)

<u>Response:</u> The Staging area for this project is located at 870 NYS Route 6. No Staging areas are proposed along the project limits.



Response to Town Comments S-M Gas Line Project MC Project No. 15000624A September 9, 2017 Page 7 of 7

6. Protection and management of traffic (no plan has been provided). The Town needs to receive a traffic plan that includes any detours (minor/major) or road closures with all the appropriate signage that would be provided.

<u>Response:</u> A Work Zone Traffic Control Plan ("Details") was provided in previous project plan submittals. However, during the meeting it was noted the Superintendent of Highways did not receive a set of project plans to review. This submittal includes an extra set of plans specifically for the Superintendent of Highway, and now includes a Detour Plan, Road Closure Plan and Sign Text Detail Plan along with the pre-existing Work Zone Traffic Control Plan ("Details").

7. A Noise mitigation plan will be required.

Response: Noise mitigation notes have been added to revised plans.

END



18 Computer Drive East Suite 203 Albany, NY 12205 T: 518.459.3252 F: 518.459.3284 www.maserconsulting.com

Intersection Sight Distance Analysis

Project: S-M Gas Line

Location: Regulator Station Driveway onto Bullet Hole Road

Town: Town of Carmel

Code: Requires 200-ft of Sight Distance per Town's Driveway Permit

1.0 Sight Distance Methodology

A typical intersection is divided into areas between each leg known as quadrants. There may be three quadrants, such as for a "T" intersection, or four, such as for a four-legged intersection. Sight triangles are the specified areas along an intersection's approach legs and across the included corners (see Figures 1.1 per AASHTO, Green Book, 2001). These areas should be clear of obstructions that might block a driver's view of conflicting vehicles or pedestrians. The two types of sight triangles are approach sight triangles and departure sight triangles (per AASHTO, Green Book, 2001)

Approach sight triangles provide the driver of a vehicle approaching an intersection an unobstructed view of any conflicting vehicles or pedestrians. These triangular areas should be large enough that drivers can see approaching vehicles and pedestrians in sufficient time to slow or stop and avoid a crash. Approach sight triangles are illustrated in Figure 1.1.

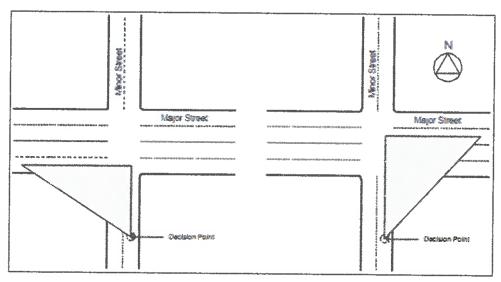


Figure 1.1 – Typical Sight Triangles

2.0 Intersection Location:

As part of the S-M Gas Line Distribution Reinforcement project, a gas regulator station will be built at 340 Bullet Hole Road. The intersection to be analyzed is a proposed driveway that will provide an egress for the regulator station from Bullet Hole Road. An attached sketch shows the location and sight distance measurements.



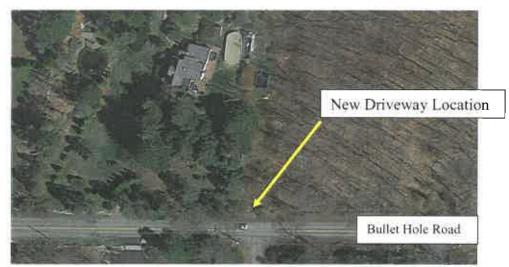


Figure 2.1 – New Intersection Location

To measure the existing Intersection Sight distance at the location of the proposed driveway, Maser Consulting took 2 pictures looking in either direction on Bullet Hole Road. Objects that where visible in the pictures were compared to the project survey, and distance measurements were derived. The clearest viewable objects were determined to be existing utility poles within the Right of Way of Bullet Hole Road.

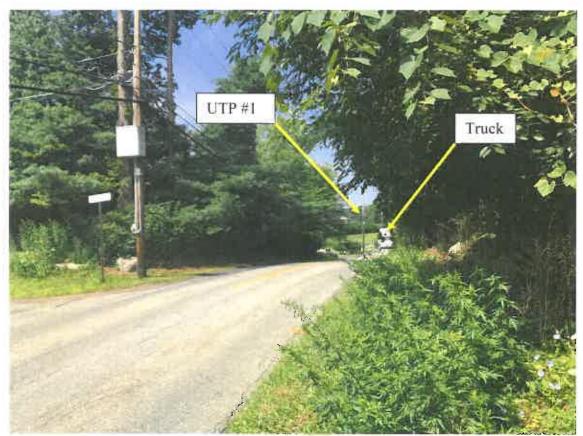
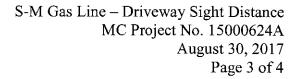


Figure 2.2 - View from Proposed Driveway looking west on Bullet Hole Road





Sight distance to the west was measured at 246.39 ft. to existing utility pole #1 shown in Figure 2.2. At the time, the picture in Figure 2.2 was taken a Ryder rental truck was approaching the site. It can be seen from the proposed driveway location at a farther distance then utility pole #1. However, it's location cannot be compared to the project's survey. It is estimated to be approximately 275 ft. in the background from the proposed driveway.



Figure 2.3 - View from Proposed Driveway looking east on Bullet Hole Road

Sight distance to the east was measured at 359.25 ft. to existing utility pole #4 shown in Figure 2.3. On the opposite side of Bullet Hole Road, a mailbox and existing driveway can be seen in the middle-ground of Figure 2.3. This existing driveway is approximately 200 ft. from the proposed driveway location.

In the attached Sight Distance Sketch, the Town's required 200 ft sight distance triangles are shown. This sketch, and Figures 2.2 & 2.3 also included on the sketch demonstrate existing sight distance exceeds the Town's requirements.



S-M Gas Line – Driveway Sight Distance MC Project No. 15000624A August 30, 2017 Page 4 of 4

3.0 Conclusion

Sight distance measurements show the proposed driveway for 340 Bullet Hole Road will meet and exceed the requirements of 200 ft. per Town of Carmel's code. In proposed conditions, the sight distance may improve when existing brush/vegetation in the ROW in front of 340 Bullet Hole Road is removed. Proposed landscaping trees will be set approximately 12 ft. into the property from the edge of pavement and therefore, should not hinder intersection sight distances.

Should you have any questions, please feel free to contact me at 518-459-3252, or via e-mail: dfarnan@maserconstulting.com.

Sincerely, MASER CONSULTING P.A.



Daniel Farnan, PE, CPESC, CPSWQ Senior Engineer

Enclosures - Sight Distance Sketch

R:\Projects\2015\15000624A\Calculations\Intersection Sight Distance\Intersection Sight Distance Letter.docx

BULLET HOLE ROAD



EXISTING SIGHT DIS MEASURES: 2





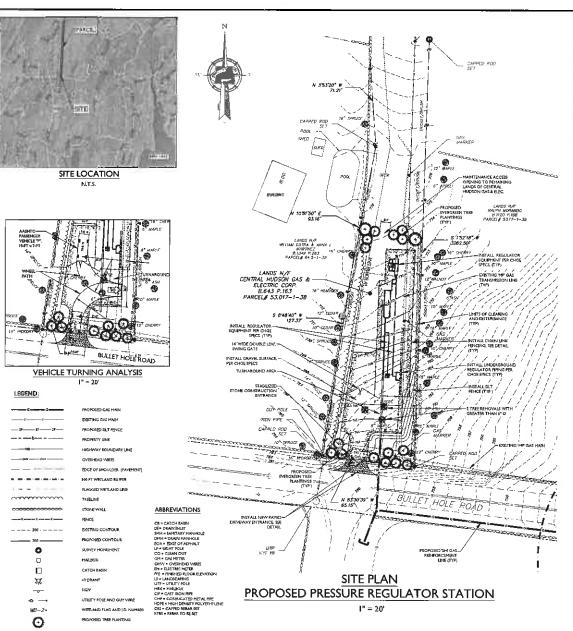
7.0 - Construction Sequence

What is the funct	tion of the construction	on activity?		
Residential	☐ Commercial	Industrial	Road Construction X Linear	-
Utility				
Other (please s	pecify):			
Estimated Projec	t Start Date:	03/01/2	<u>2018</u>	
Estimated Projec	t Completion Date:	10/01/2	2018	

Estimated timeline of activity	Permitting, Construction Activity and BMP Descriptions
10/01/2017 - 01/31/2018	Permitting 1. Obtain all Town, State & Federal Permits and Approvals 2. Bid and Award Project 3. Obtain all signatures from Town for MS4 and NOI signoff. 4. Submit NOI
01/31/2018 - 03/31/2018	 Pre-Construction Phase 1.If requested by the town, hold a Pre-Construction Meeting with Contractor, CHGE, Town and any other agency necessary to attend. 1.A) All parties required to sign the SWPPP document do so. Signed copy of the SWPPP document shall remain on site until the project has ended. Finalize Construction Schedule and Share with involved Agencies If requested by the town, Hold Public Open House to review the project. Staging Area – Install: temporary fencing, silt fencing (in turf), fueling area, spill kits. Post all Permits at Staging Area. Post NOI and store copy of SWPPP in conspicuous location for weekly inspection. Import & Stock Pipe materials. Mobilize Equipment. Perform necessary Tree Clearing prior to Endangered Species window. Install silt fencing at regulator station site. Begin clearing and grubbing, grading, and installation of access road for Pressure Regulator Station.



04/01/2018 - 07/01/2018	 Infrastructure Construction Install Work Zone Traffic Controls in locations where trenching will commence. Install perimeter silt fencing ahead of trenching. Silt Fence to be inspected by Town before trenching may commence. Excavate and install new gas main and regulator stations. Install Surface Restoration (Turf or Pavement) Sweep road in work zone at end of each day. Conduct weekly Inspections by a Qualified Inspector. Address any issues from inspections
07/01/2018 - 09/01/2018	Infrastructure Construction with Road Closures 1. Install Traffic Controls for Detours 2. Install Work Zone Traffic Controls in locations where trenching will commence. 3. Install perimeter silt fencing ahead of trenching. Silt Fence to be inspected by Town before trenching may commence. 4. Excavate and install new gas main and regulator stations. 5. Install Surface Restoration (Turf or Pavement) 6. Conduct weekly Inspections by a Qualified Inspector. Address any issues from inspections
09/01/2018 - 10/01/2018 -	Finalize Construction, Final Stabilization 1. Construct any remaining Gas Infrastructure sections. 2. Inspect all previously restored Turf areas and if necessary, re-seed & mulch to achieve final stabilization. 3. Remove Silt Fence and other Sediment Controls. 4. Demobilize the staging area, safely remove portable fueling equipment, remove temporary fencing, remove silt fencing. 5. Conduct final site inspection by a Qualified Inspector or Professional. 6. File the Notice of Termination.
10/01/2018 - 10/01/2019 -	Long-Term monitoring 1. Monitor Work zones throughout all project area for issues with grass/landscaping until the end of Letter of Undertaking Terms. 2. Fix/reseed any areas where grass/landscaping did not fully establish from prior disturbances. 3. Maintain site landscaping at pressure regulator station in accordance with Town Codes.



SCALE : 1" = 20"

OWNER/ APPLICANT CENTRAL HUDSON GAS & ELECTRIC 294 SOUTH AVE

TAX LOT AND ADDRESS:

PARCEL#53.017.1138 339-347 BULLET HOLE ROAD MAHOPAC NY IDSAI

SITE AREA:

TOTAL PARCEL 4974 ACRES
AREA OF CONSTRUCTION ON PARCEL B. 103 ACRES

ZONING INFO & PROPOSED USE:

EXISTING ZONE <u>"R" RESIDENTIAL</u> ZONING DISTRICTS WITHIN 500 FT: <u>"R" RESIDENTIAL</u>

PROPOSED CONDITIONAL USE: PUBLIC UTILITY - GAS MAIN REGULATOR STE (PERNITTED PER \$156-31 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.

DTE THIS FACILITY DOES NOT REQUIRE FULL/PART TIME

LIMITS OF SITE DISTURBANCE

WORK LIMIT'S DELINEATED ON THIS PLAN RESULT IN A MAXIMUM OF 4500 SQ FT. (0 100 AC) OF DISTURBANCE MAP REFERENCE:

DISTING CONDITIONS FROM A SURVEY BY MASER
CONSULTING ENTITLED ISM GAS LINE, DATED JANUARY 3RD
2017

GENERAL NOTES:

- WHENEVER THE CONTRACT REQUIRES MATERIALS TO BE REHOVED AND DISPOSED OF THE COST OF SUPPLIFIED A DISPOSAL AREA AND TRANSPORTATION TO THAT AREA SHALL BE INCLUDED IN THE BID.
- THERE SHALL BE NO CLAIM AGAINST THE OWNER MADE BY THE CONTRACTOR FOR WORK PERTAINING TO MODIFICATIONS AS HAY BE ROUMED DUE TO ANY DETRIENING BETWEEN ACTUAL FIELD CONDITIONS AND THOSE SHOWN BY THE DETAILS AND DE-PENSION DITTE CONTRACT PLANS.
- CARE SHALL BE TAKEN TO RETAIN NATURAL GROWTH AND PROPERT DAMAGETO TRESS WITHIN AND QUISING THE LIMITS OF PROPERTY OF THE PROPERTY OF THE STATEMAN OF THE STATEMAN OF DAMAGE CAUSED TO THE INSTITUTE CONTINUED AS BESTORED AT THE SOURCES OF THE CONTRACTOR AS DIRECTED BYTHE OWNERS REPRESENTATIVE
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- ALL CONGRETE USED ON THIS PROJECT UNLESS OTHERWISE SPECIFIED, SHALL BE DESIGNED WITH A COMPRESSIVE STRENGTH (fc), AT 28 DAYS, OF 2009 POUNDS PER SQUARE INCH (pii)
- 6 PAYEMENT SHALL 86 KEPT CUBAN AND FREE OF MUD AND DEBNIS AT ALL TIME
- NEARBY EXISTING ORAINAGE SHALL BE MAINTAINED AND OPEN AT ALL TIMES.

BULK TABLE

ZONE TECHNOLOGIAL
PROPOSED USE PRIME UTILITY
CONCITIONAL USE PRIMITED BY RIGHT, SECTION 154-37 OF TOWN CODE SUBJECT TO SITE PLAN REVIEW BY THE PLANNING SOARD

	zo	NING BULK TABLE	
REQUIREMENT	REQUIRED	EXISTING	PROVIDED.
LOT AREA	110 000 SF	275.4973 55	314.493 SE
LOT COVERAGE	9 TO 85%	grs.	Pt.
LOT VHOTH	200 FT	VARIES, IS IT FRONTAGE	VANES, AS FT PRONTAGE
LDT DØTH	No FT	3.309 FT	3.310 FT
FRONT YARD SETBACK	ΦĦ	-	NO PROPOSED BUILDING OR STRUCTURE
SER YARD SETBACK	25 FT	-	NO PROPOSED BUILDING OR STRUCTURE
NEAR YARD SETBACK	44 FT		NO PROPOSED BUILDING OR STRUCTURE
LANDSCAPING BUNESA	te-T		IN IT TO WIST, S PT TO DATE
HEIGHT	35 FT	-	7 FT

ORIGINATE PARENCE P

*NO PULL TIME ON PART-TIME EMPLOYEES REQUIRED FOR SITE WILL ONLY BE ACCESSED FOR PERIODIC INSPECTION

SOIL EROSION CONTROL NOTES

- ALL SOIL EROSION AND SECRETARY CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, ON IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED HORE THAN SEVEN (14) DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL
 PRECEATELY RECEIVE A TEMPORARY SESSION BY THE SEASON PREPORT THE ESTABLISHMENT OF TEMPORARY COVER, THE DISTURBED AREAS
 WILL BE FRILDING WITH STRAY ON REQUINALLY HATERIAL, AT A BATE OF TWO (2) TONS PER ACRE, ACCORDING TO STEAMDARDS.
- 2. PREMANENT VEGETATION TO BE SEEDED OR SOCIOED ON ALL EXPOSED AREAS WITHIN FIVE (5) DAYS AFTER FINAL GRADING, MULCHING IS REQUIRED ON ALL SECONG
- IN ALL WORK TO BE DONE IN ACCORDANCE WITH THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EXCESON AND SECTION OF CONTROL
- 5 THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A STONE PAD, AT ALL CONSTRUCTION DRIVEWAYS IN-HEDIATELY AFTER INITIAL SITE DISTURBANCE.
- 6 UNFILTERED DEWATERING IS NOT PRINTTED. TAKE ALL INCRESARY PRECAUTIONS DURING ALL DEWATERING OPERATIONS TO MINIMIZE SEDIMENT TRANSFER, ANY DEWATERING METHODS USED MUST BEIN ACCORDANCE WITH STATE STANDARDS.
- 7 SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY. THE SITE WILL BE SPANKLED UNTIL THE SURFACE IS WET, TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED OR MUICH SHALL BE APPLIED IN ACCORDANCE WITH STATE STANDARDS FOR EXOSION CONTROL.
- 8. PAVEMENT ABEAS ARE TO BE KEPT CLEAN AT ALL TIMES ALL SOIL WASHED, DROPPED, SMILED, OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHT-OF-WAY WILL BEREMOVED PHILEDATELY.
- ALL SOIL STOCKPILES ARE TO BE TEMPORABILY STABILIZED IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR SOIL BROSION AND SEDMENT CONTROL.
- 10. DURING CONSTRUCTION, ANY ADDITIONAL CONTROL HEASURES AS DEEPED. INCCESSARY TO PREVENT PROSON OR CONTROL SECIMENT 88YOND THOSE. HEASURES SHOWN ON THE APPROVED PLAN SHALL BE INSTALLED OR EMPLOYED. AT THE DIRECTION OF THE MUNICIPAL BIOGREEM.
- I. ALL TEMPORARY, STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES CAN BE REMOVED, WHEN ALL CONSTRUCTION ACTIVITY

"HINES TREED/TION - HON'S THAT ALL TOO, DOTUBNICS ACTIVITIES HAVE CUSTO AND A DIRECTIVE RESIDENCE STEET, THIS COOKS WITH A DIRECTIVE OWN THE PROPERTY OF BOTH TO RESIDENCE AND THE STITLER PROVIDENCE WHICH AND ADDRESS WE WITH A DIRECTIVE HAVE BOTH HAVE BOTH

Control of the contro

DANIEL A. FARNAN

SITE PLAN OF PRESSURE REGULATOR STATION

CENTRAL HUDSON

Central Hudson

BLOCK 53.017 LOT 1 SECTION 38

TOWN OF CARMEL PUTNAM COUNTY STATE OF NEW YORK

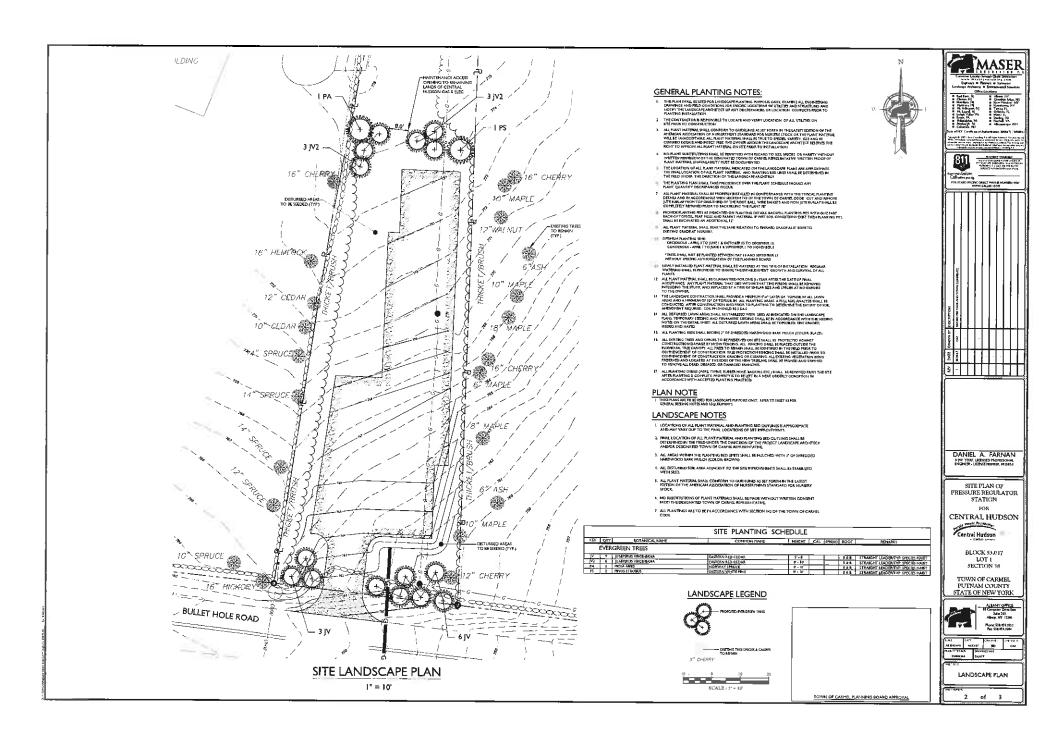


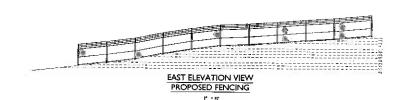
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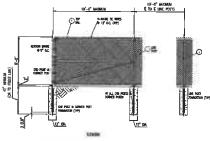
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TOWN OF CARMEL PLANNING BOARD APPROVAL



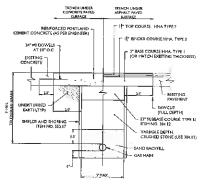




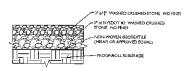
FENCING NOTES:

- I CHAIN LINK FENCING FABAIC TO BEYINYL COATED COLOR: BLACK
- FENCING TO BES.FT TALL

8' HIGH FENCING DETAIL



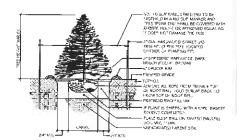
TRENCH DETAIL - IN PAVEMENT



NOTES:

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

GRAVEL SURFACE DETAIL



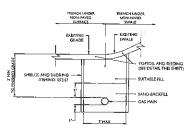
EVERGREEN TREE PLANTING DETAIL

NOT TO SCALE

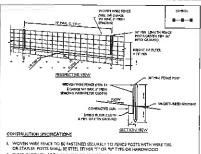
PLANT DETAIL NOTES

NO SOIL OR HALLCH SHALL BE PLACED AGAINST ROOT COLLAR OF PLANT MULCH SHALL NOT TOUGHTHE TREE TRUNK.

- 2. PLANTING DEPTH SHALL BETHE SAME OR HIGHER AS GROWN IN NURSERY
- 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.
- DEPTH OF PLANT PIT SHALL BE INCREASED BY 12" WHEREVER POOR SOIL CONDITIONS OCCUR, WITH THE ADDITION OF LOOSE AGGREGATE
- CONTRACTOR SHALL PARTIALLY FILL WITH HWATER A REPRESENTATIVE RUMBER OF RTS SHEACH AREA OF THE ROJECT PRIOR TO PLANTING TO DETERMINE FIT PRIBES IS ADDICATE PRECOLATION. IF PRIOR DETERMINES THE RESCULATION I PRI DODSETT RECOLATION OF THE DESCRIPTION OF THE DESCR
- PLANTINGS SUBJECT TO GUARANTEE CLAUSES WITHIN CONTRACT FOR WORK WITH CONTRACTOR AND THER SUBCONTRACTORS, AT HINNIN PLANTINGS SHALL BE GUARANTEE FOR ONE (I) NOLL GROWING YEAR FROM THE TIPE OF RINAL ACCEPTANCE BY CENTRAL HADSON.
- BACKRILL MIXTURE TO SE SPECIFIED BASED UPON SOIL TEST AND CULTURAL REQUIREMENTS OF PLANT
- PRUNE DAMAGED AND CONFLICTING BRANCHES MAINTAINING NORMAL TREE SHAPE, NEVER OUT CENTRAL TRUNK OR LEADER



TRENCH DETAIL-NON-PAVED AREAS



- FILTER CUOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION FENCE SHALL BE WOVEN WIRE, 12 IQ GAUGE, 6" MAXIMUM MESH OPENING.
- WHEN TWO SECTIONS OF FIXTER CLOTH ADJOINLEACH OTHER THEY SHALL BE OVER-LAFFED 61 SIX BICHES AND FOLDED. FILTER CLOTH SHALL BE EITHER MIRAFI 100X. STABILIZATION. OR APPROVED EQUIVALIBIT.
- 4. PREFABRICATED UNITS SHALL BE GEGRAB, ENVIROPENCE, OR APPROVED FOUNTAINT
- 5 MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL, REMOVED WHEN "BUILGES" DEVELOP IN THE SILT PENCE

SILT FENCE

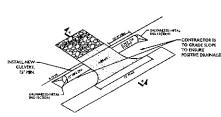
GENERAL SEEDING NOTES

- TEMPORARY SECTING SHALL CONSIST OF PERENNIAL INTEGRASS APPUED AT A RATE OF 10 LBS FER 1080 5° OR SPIRING DATS APPLED AT A RATE OF 20 LBS FER 1080 5° TEMPORANT SECTIONS SHALL BE PHILICARD AND ANNIANIED UNTIL DISTURBED AREAS ARE PERHAMENTLY STABILIZED WITH PERHAMENT SECTING.
- PERMANENT SEEDING SHALL CONSIST OF THE FOLLOWING MIXTURE OR APPROVED EQUAL OFFINDIN SEEDING DATES ARE BETWEEN APRIL I AND MAY 31, AND AUGUST 16. 120 LBS/ACRE 30 LBS/ACRE 40 LBS/ACRE

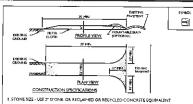
MIXTURE - HARD FESCUE PERBANAL RYE GRASS KENTUCKY BLUE GRASS (BLEND)

MIXTURE - TALL PESCUE PERENNIAL RYE GRASS (BLEND) KENT UCKY BLUE GRASS (BLEND) 160 LBS/ACRE PERMANENT SEEDING TO BE APPLIED BY RAKING OR DRILLING INTO THE SOILS AT A RATE OF LSOM PER ACRE. SLOPED AREA TO BE COVERED WITH MILLICH AS INDICATED IN

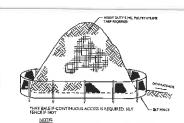
- FERTILIZER FOR THE ESTABUSHMENT OF TEMPORARY AND PERMANENT VEGETATIVE COVER SHALL BE IN COMPULANCE WITH THE LATEST INSDECREGULATIONS A SOIL TEST PRIOR TO FERTILIZER APPLICATION IS RECOMMENDED.
- IF SEASON PREVENTS THE ESTABLISHMENT OF TEMPORARY OR PERMAMENT SEEDING, EXPOSED AREA TO BE STABILIZED WITH MULCH AS INDICATED IN NOTE 6
- MAICH TO CONSTE DE SMALL GRAIN STRAW OR SALT HAY ANCHONED WITH A WOOD AND REER MULCH BINDER OR AN APPROVED EQUAL, MULCH WILL SE SPECIA OR FARTS OF NYTO 1151. ET RE 100 SE AND ANCHORED WITH A PALICH AND HORNED TOOL OF UTUNING MULCH BINDER, AND SMALL BE ROOVED ON ALL SECONGS HYDROMILLOU SMALL ONLY SEED DURING OFFENDER GOVERNOON SECONG.
- WORK LIFE AND DEPTLESS AND JOB AS HEARLY AS PRACTICAL TO A DEPTH OF A DICESSIVE HIGH DEPTH OF A
- REMOVE FROM THE SURFACE ALL STONES TWO INCHES OR LARGER IN ANY DIMENSION. BEMOVE ALL OTHER DEBIES SUCH AS WIRE, CASEL TREE ROOTS, PRECES OF CONCRETE, CLOSS, LIMPS OR OTHER UNSUIT ABLE PRATERIAL.
- INSPECT SEEDBED JUST BEFORE SEEDING IF TRAFFIC HAS LEFT THE SOIL COMPACTED. THE AREA MUST BE RETILLED AND FIRMED AS AROVE



TYPICAL DRIVEWAY WITH CULVERT DETAIL



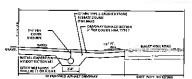
- LENGTH NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY)
- 3 THICKNESS NOT LESS THAN SIX (6) INCHES,
- 4. WIDTH TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURL TWENTY-FOUR (24) FOOT IF SINGLE ENTRAINCE TO STE.
- 5. FILTER CLOTH WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE A FILE AND A STATE OF THE STATE
- * PRANTENANCE THE ENTRANCE SHALL BE HAINTAINED IN A CONDITION WHICH WILL REVENT TRACKING OR ROWING OF SEDIMENT ONTO AUBLIC RIGHTS-OF-WAY, ALL SECRETIF SHELD, DROPPIO, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY PLIST 66 R9-KOYED INHEDRATELY
- WHEN WASHING 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



NOTES I AREA CHOSEN FOR STOCKPILING SHALL BE DRY AND STABLE.

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SOIL STOCKPILE DETAIL



DRIVEWAY SECTION A-A SCALE: NTS



MASER

DANIEL A. FARNAN

SITE PLAN OF PRESSURE REGULATOR STATION FOR

CENTRAL HUDSON Party Philadelphilips Central Hudson

> BLOCK 53.017 LOTI SECTION 18

TOWN OF CARMEL PUTNAM COUNTY STATE OF NEW YORK



DATE CHANGE CHOOSES. CONSTRUCTION DETAILS

PROJECT ROUTE DESIGN PLANS

FOR

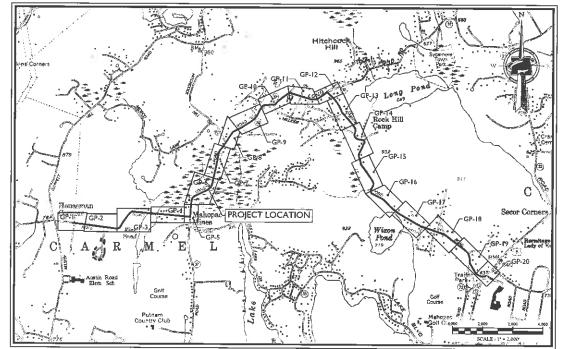
CENTRAL HUDSON GAS AND ELECTRIC CORP.

S-M LINE: GAS DISTRIBUTION REINFORCEMENT PROJECT

PROPOSED 10" STEEL GAS MAN & GAS REGULATOR STATION TOWN OF CARMEL PUTNAM COUNTY, NEW YORK

SEPTEMBER 2017

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PROJECT LOCATION MAP

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GENERAL NOTES

- PROJECT SHALL FOLLOW CENTRAL HUDSON GAS AND ELECTRIC CORP. GAS CONSTRUCTION AND MATERIAL STANDARDS UNLESS OTHERWISE NOTED.
- THESE PLANS REFERENCE ITEM NUMBERS FROM: STANDARD SPECIFICATIONS. CONSTRUCTION AND MATERIALS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, OFFICE OF ENGINEERING, DATED MAY 1, 2008, WITH CURRENT ADDITIONS AND MODIFICATIONS
- ALL SHOP DRAWINGS SUBMITTED FOR THIS PROJECT SHALL BE IN US CUSTOMARY
- WHENEVER ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED OF, THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THAT AREA SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THOSE ITEMS.
- THE CONTRACTOR IS ADVISED THAT ADDITIONAL "NOTES" WILL BE FOUND ON SUBSEQUENT SHEETS OF THE CONTRACT PLANS AND SUCH "NOTES", WHILE PERTAINING TO THESE SPECIFIC SHEETS THEY ARE PLACED ON, ALSO SUPPLEMENT THE GENERAL NOTES LISTED HEREIN.
- NO ADDITIONAL PAYMENT WILL BE MADE FOR WORK CALLED FOR BY NOTES ON THE PLANS OR IN THE SPECIFICATIONS FOR WHICH NO ITEM NUMBER IS INDICATED. THE COST OF SUCH WORK SHALL BE INCLUDED IN THE PRICES FOR VARIOUS ITEMS OF THIS
- 7. CARE SHALL BE TAKEN TO RETAIN NATURAL GROWTH AND PREVENT DAMAGE TO TREES WITHIN AND OUTSIDE THE LIMITS OF CONSTRUCTION, AND NOT SCHEDULED FOR REMOVAL ANY DAMAGE CAUSED TO THIS NATURAL GROWTH SHALL BE RESTORED AT THE EXPENSE OF THE CONTRACTOR AS DIRECTED BY CENTRAL
- THE CONTRACTOR IS TO VISIT THE SITE BEFORE BIDDING, TO FAMILIARIZE THEMSELVES WITH THE FIELD CONDITIONS AND TO JUDGE FOR THEMSELVES THE EXTENT AND NATURE OF THE WORK TO BE DONE UNDER THIS CONTRACT, NO EXTRA COMPENSATION WILL BE ALLOWED BECAUSE OF THE CONTRACTORS FAILURE TO INCLUDE IN THEIR BID ALL ITEMS AND MATERIALS WHICH THEY ARE REQUIRED TO FURNISH IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- ALL CONCRETE USED ON THIS PROJECT SHALL BE DESIGNED WITH A COMPRESSIVE STRENGTH (fc), AT 28 DAYS, OF 3000 POUNDS PER SOUARE INCH (psi).

SPUR LINE NOTE:

THE END OF EACH "STUB" OR "SPUR LINE" SHALL BE LOCATED IN THE SHOULDER OF THE ROADWAY AS SHOWN ON THE DRAWINGS. THE SPUR SHALL CONSIST OF A 10" X 10" X 4" STEEL IN-LINE TEE, A 4 INCH PIPE-TYPE TRANSITION TO PLASTIC, A MINIMUM OF 5 FEET OF 4" PLASTIC PIPE, A 4 INCH FULL PORT PLASTIC BALL VALVE, A MINIMUM OF S' FEET OF 4" PLASTIC PIPE A PURGE POINT ASSEMBLY, AND A 4" PLASTIC END CAP, THESE SPUR LINES SHALL BE PRESSURE TESTED ALONG WITH ALL OTHER PIPING. PURGING SHALL BE COMPLETED IN ACCORDANCE WITH CENTRAL HUDSON'S OPERATING AND MAINTENANCE PROCEDURES #120.

SCOPE OF PROJECT:

- INSTALL ALL WORK ZONE TRAFFIC CONTROL (AS REQUIRED PER NYSDOT & MUTCO STANDARDS), THESE PLANS AND PERMIT RESTRICTIONS
- 2. INSTALL PROPOSED GAS FACILITIES AND INSTALL SERVICES TO THE NEW GAS MAIN (AS REQUIRED).
- 3. BACKFILL AND RE-PAVE TRENCH AS REQUIRED (SEE MISCELLANEOUS DETAILS AS PART OF THIS SET).

ELECTRICAL SAFETY NOTE:

I. HIGH VOLTAGE AND/OR OVERHEAD ELECTRIC UTILITY WIRES MAY BE PRESENT WITHIN THE PROJECT LIMITS, CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS WHILE WORKING IN OR AROUND THESE LITILITIES.

UTILITY QUALITY LEVEL NOTES:

1. FOUR SEPARATE QUALITY LEVELS OF SUBSURFACE UTILITY FACILITY INFORMATION ARE GENERALLY RECOGNIZED AND ARE AS FOLLOWS:

SUBSURFACE UTILITY FACILITY INFORMATION SHOWN HEREIN IS CONSIDERED: OLC

QUAUTY LEVEL C (QLC): QUALITY LEVEL C IS THE THIRD HIGHEST DEGREE OF ACCURACY. THE INFORMATION SHOWN ON THE PLANS HAS BEEN OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGEMENT IN CORRELATING THIS INFORMATION TO QUALITY LEVEL D INFORMATION. (SHOWN AS QLC)

NON-PAVED SURFACES NOTES:

- THE CONTRACTOR SHALL NOT EXPOSE ANY SUBGRADE THAT CANNOT BE BACKFILLED AND COMPACTED WITH SUBBASE MATERIAL BY THE END OF EACH WORK DAY OR AS APPROVED BY THE ENGINEER. STEEL PLATING WITH PINS AND RAMPED EDGES IS ALSO ACCEPTABLE FOR OVERNIGHT AND TEMPORARY PURPOSES.
- COMPACTED SUBBASE MATERIAL SHALL NOT BE EXPOSED FOR MORE THAN SEVEN CALENDAR DAYS OR AS APPROVED BY THE ENGINEER.

RESTORATION NOTES:

- ALL AREAS DISTURBED DURING TRENCHING AND WORK OPERATIONS MUST BE STABILIZED WITHIN 14 DAYS.
- ALL TRENCHING ACTIVITIES SHOULD BE BACKFILLED (OR STEEL PLATED WITH PINS AND EDGE RAMPING) AND TEMPORARILY STABILIZED AT THE END OF FACH WORK DAY
- ALL TRENCHING IN PAYEMENT SHOULD BE SAWCLIT PRIOR TO TRENCHING. PAVEMENT RESTORATIONS MAY REQUIRE ADDITIONAL CUTBACKS (ALSO AS DETAILED IN THIS SET) AFTER TRENCHING OPERATIONS HAVE BEEN COMPLETED.
- ALL PAVED AREAS MUST BE RESTORED WITHIN A MINIMUM OF 4" TEMPORARY PAVING AT THE CLOSE OF EACH DAYS WORK
- PERMANENT PAYING MUST BE COMPLETED AT DAILY TEMPERATURES COMPLIANT WITH THE NYSDOT STANDARD SPECIFICATIONS.

GENERAL WETLAND NOTE:

1. THE WETLAND FLAGGING AND LOCATIONS WERE DELINEATED BY MASER CONSULTING ON NOVEMBER 18 & 22, 2016 AND DECEMBER 2, 2016.

REPORTING OF SPILLS, DISCHARGES OR CONTAMINATED SOILS:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING ANY FINDING OF SPILLS, LEAKS OF PETROLEUM PRODUCTS, CONTAMINATED SOILS, BURIED DRUMS OF UNKNOWN SUBSTANCES, OR ANY OTHER POTENTIALLY HAZARDOUS MATERIALS TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) WITHIN TWO (2) HOURS OF THE DISCOVERY. NOTIFICATION MUST BE MADE BY CALLING THE NYSDEC SPILLS HOTLINE I (800) 457-7362.
- THE CONTRACTOR SHALL ALSO NOTIFY CENTRAL HUDSON IMMEDIATELY UPON FINDING OF SPILLS, LEAKS OF PETROLEUM PRODUCTS, CONTAMINATED SOILS, BURIED DRUMS OF UNKNOWN SUBSTANCES, OR ANY OTHER POTENTIALLY HAZARDOUS MATERIALS.
- 3. THE CONTRACTOR IS REQUIRED TO KEEP SPILL KITS AT THE FOLLOWING LOCATIONS DURING THE ENTIRE DURATION OF CONSTRUCTION:
- KITS SHALL BE KEPT. IN THE STAGING AREA AT ALL TIMES
- 3.2 ONE (I) KIT SHALL BE KEPT AT THE LOCATION OF WORK VEHICLES. EXCAVATORS, TRUCKS OR OTHER PIECES OF CONSTRUCTION EQUIPMENT WHICH HAVE THE POTENTIAL TO SPILL/DISCHARGE POTENTIALLY
- ONE (I) KIT KEPT AT THE LOCATION OF EACH HORIZONTAL DIRECTIONAL
- IN THE EVENT A KIT IS USED OR DAMAGED, IT SHALL BE REPLACED IMMEDIATELY BEFORE COMMENCING WITH CONSTRICTION.

NOISE MITIGATION NOTES:

- THE CONTRACTOR WILL BE REQUIRED TO DEVELOP AND IMPLEMENT A NOISE CONTROL PLAN.
- THE TOWN OF CARMEL TOWN CODE LIMITS CONSTRUCTION NOISE LEVELS TO: 70 dBA WITHIN 400 FEET OF A RESIDENTIAL BUILDING. MONDAY THROUGH FRIDAY, AND 65 dBA ON SATURDAYS. THE CONTRACTOR SHALL COMPLY WITH THIS LIMITS FOR THE DURATION OF
- POTENTIAL NOISE IMPACTS WILL BE MINIMIZED BY PROHIBITING TRUCK DRIVERS FROM USING ENGINE BRAKES (EXCEPT IN EMERGENCY SITUATIONS) OR FROM IDLING THEIR VEHICLES FOR MORE THAN 15
- CONSTRUCTION EQUIPMENT WILL USE A SYSTEM OF MUFFLERS TO LIMIT OPERATIONAL NOISE.
- CONTRACTOR SHALL USE HIGH FREQUENCY/VARIABLE MOMENT VIBRATORY HAMMER, AND LIMIT HAMMERING OPERATIONS TO TIMES OF DAY WITH MINIMAL IMPACT TO RESIDENTIAL NEIGHBORHOODS: MONDAY - FRIDAY, 9 AM TO 4PM.
- CONSTRUCTION TRAFFIC WILL GENERALLY BE LIMITED TO THE HOURS OF 8:00 AM TO 6:00 PM, MONDAY THROUGH FRIDAY, LIGHT CONSTRUCTION WORK THAT GENERATES LOW NOISE IMPACTS TO RESIDENTIAL NEIGHBORHOODS MAY TAKE PLACE 8:00 AM TO 4:00 PM, ON SATURDAYS, NO CONSTRUCTION, EXCEPT FOR INSTANCES OF EMERGENCY WORK, SHALL TAKE PLACE ON SUNDAYS.

TREE PROTECTION

THE AREA BENEATH THE DRIP LINE OF ALL TREES WITH A TRUNK DIAMETER OF 3 INCHES OR GREATER LOCATED OUTSIDE OF THE PROJECT CLEARING LIMITS OR IN PROXIMITY TO STAGING AND STOCKPILING AREAS SHALL NOT BE DISTURBED. DISTURBANCE INCLUDES REMOVING TREES, STOCKPILING MATERIAL STORING EQUIPMENT. OR DRIVING AND PARKING VEHICLES BENEATH DRIP LINES OF TREES, ADDITIONAL TREES REQUIRING PROTECTION MAY BE DESIGNATED BY THE ENGINEER-IN-CHARGE (EIC). THE CONTRACTOR SHALL SUBMIT A PLAN TO THE EIC FOR APPROVAL SHOWING THE PROPOSED STAGING, STORAGE AND STOCKPILE AREAS FOR EACH SITE PRIOR TO PLACEMENT OF ANY EQUIPMENT OR MATERIALS AT THE SUBJECT AREA.

TIME OF YEAR CUTTING RESTRICTIONS FOR INDIANA BAT & NORTHERN LONG-EARED BAT

IN ORDER TO PREVENT ANY DIRECT TAKINGS OF INDIANA BAT (MYOTIS SODALIS), A FEDERAL AND STATE LISTED ENDANGERED SPECIES AND NORTHERN LONG-EARED BAT (MYOTIS SEPTENTRIONALIS), A FEDERAL AND STATE LISTED THREATENED SPECIES, THE CONTRACTOR'S ATTENTION IS HEREBY DIRECTED TO THE FACT THAT TREE CUTTING SHALL ONLY BE PERFORMED FROM OCTOBER 31 THROUGH MARCH 31, TIME OF YEAR TREE CUTTING RESTRICTIONS APPLY TO TREES THAT ARE 3 INCHES OR GREATER DIAMETER AT BREAST HEIGHT (DBH).

ENDANGERED SPECIES - BOG TURTLE

BOG TURTLE (CLEMY'S MUHLENBERGII), A FEDERALLY THREATENED AND STATE ENDANGERED SPECIES, IS KNOWN TO HAVE HISTORICALLY EXISTED NEAR THIS WORK LOCATION. A FACT SHEET DESCRIBING THIS SPECIES AND ITST HABITAT WILL BE DISTRIBUTED AT THE FRE-CONSTRUCTION MEET AND SHALL BE DISTRIBUTED. TO ALL EMPLOYEES AND SUBCONTRACTORS WORKING ON THE PROJECT. THE FACT SHEET CAN ALSO BE FOUND AT: http://www.acris.nynhp.org/guide.php/id=7507. IF THIS SPECIES IS ENCOUNTERED. NOTIFY THE ENGINEER-IN-CHARGE IMMEDIATELY.

MIGRATORY BIRD PROTECTION NOTE

UNDER THE MIGRATORY BIRD TREATY ACT (MBTA), IT IS UNLAWFUL BY ANY MEANS OR MANNER TO INTENTIONALLY OR UNINTENTIONALLY TAKE, CAPTURE, OR KILL ANY MIGRATORY BIRD UNLESS A PERMIT IS FIRST SECURED. VIOLATIONS OF MBTA REGULATIONS ARE SUBJECT TO PENALTIES OF UP TO \$16,000 AND SIX MONTHS

PROTECTED MIGRATORY BIRDS INCLUDE ALL WATERFOWL, HERONS, HAWKS, OWLS, EAGLES AND SONGBRIDS, INCLUDING SWALLOWS, ROBINS, AND EASTERN PHOEBES, THEIR FEATHERS, NESTS, AND EGGS ARE ALSO PROTECTED UNDER THE MRTA.

EXEMPT FROM THE MBTA ARE ROCK DOVES (DOMESTIC PIGEONS), HOUSE SPARROWS (ENGLISH SPARROWS), EUROPEAN STARLINGS, AND MONK PARAKEETS. NON-NATIVE HUMAN-INTRODUCED BIRD SPECIES ARE NOT PROTECTED BY THE MBTA, ALTHOUGH THESE SPECIES ARE NOT PROTECTED UNDER THE MBTA, THEY SHOULD STILL BE TREATED AS HUMANELY AS POSSIBLE. IF ANY BIRD NESTS ARE ENCOUNTERED PRIOR TO OR DURING WORK CONTACT THE ENGINEER-IN-CHARGE (EIC) IMMEDIATELY.

AREAS SCHEDULED FOR WORK FROM APRIL 15 TO AUGUST 15 (THE PERIOD IN WHICH NESTS ARE TYPICALLY FOUND WITH EGGS OR UNFLEDGED CHICKS) SHALL BE INSPECTED FOR BIRD NESTING ACTIVITY PRIOR TO COMMENCING ANY WORK ACTIVITY. IF THE NEST(S) IS DETERMINED TO BE OCCUPIED, AVOID DISTURBING, DAMAGING OR REMOVING THE NEST UNTIL THE YOUNG ARE FLEDGED (LEAVE THE NEST). AT NO TIME SHOULD THE NESTS OF HAWKS, FALCONS, OR EAGLES BE DESTROYED, AS THESE SPECIES RETURN TO THE SAME NEST SITE YEAR AFTER YEAR AND REUSE THE SAME NEST

AFTER FLEDGING OCCURS (OF SPECIES OTHER THAN HAWKS, FALCONS OR EAGLES), AND ALL NESTING ACTIVITY IS BELEVED TO HAVE CEASED (TYPICALLY INDICATED BY ADULT BIRDS MOVING TO AND FROM THE INST. SOUNDS OF TOUNG IN THE NEST, OR BIRDS PERSISTING IN THE VICINITY OF THE NEST), THEN THE NEST(S) CAN BE PRESUMED TO BE UNDOCUMED AND CAN BE REMOVED SO THAT WORK MAY PROCEED, UNDOCUMED NEST(S) SHOULD BE REMOVED AS QUICKLY AS POSSIBLE TO PREVENT BIRDS FROM BEGINNING A SECOND NEST BROOD AT

FROM AUGUST 16 TO APRIL 14 NESTS CAN BE PRESUMED TO BE UNOCCUPIED AND CAN BE REMOVED AFTER CONFIRMING THAT THE NEST IS INDEED INACTIVE.

IF THERE ARE ANY QUESTIONS REGARDING HOW TO PROCEED WITH NESTING MIGRATORY BIRDS, IMMEDIATELY CONTACT THE EIC. NO NESTS OF PROTECTED MIGRATORY BIRDS SHALL BE REMOVED OR DISTURBED IN ANY WAY WITHOUT PERMISSION FROM THE EIC.

THIS PROJECT REQUIRES THE FOLLOWING PERMITS:

-TOWN PLANNING BOARD APPROVAL & SEQRA DETERMINATION

TOWN DRIVEWAY DERMIT

-TOWN WETLAND DISTURBANCE PERMIT -TOWN ROAD OPENING PERMIT (50)

- PUTNAM COUNTY ROAD OPENING PERMIT

-NYSDOT UTILITY WORK PERMIT

-NYSDOT DETOUR PERMIT

-PUTNAM COUNTY DETOUR PERMIT -NYSDEC 401 WATER QUALITY CERTIFICATION

-NYSDEC WETLAND BUFFER DISTURBANCE PERMIT



BRETT D. REYNOLDS NEW YORK EKENSED PROFESIONAL BYDINEER - DICENSE NUMBER 64906

PROJECT ROUTE DESIGN PLANS FOR Central Hudson

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





5000624A C-NOTE

GENERAL NOTES

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			TA	BLE OF ROAD CROSSING	S/OPENING	3 S			
					ROAD JURISDICTION				
NO.	DRAWING SHEET #	PIPE STATION	TYPE	DESCRIPTION	PRIVATE	TOWN	PUTNAM COUNTY	NEW YORK STATE	
1	4	0+50	90° TURN	CROSSING INTO REG. STATION	1	1			
2	1	0+50	STUB	FUTURE EXPANSION	l l				
3	6	19+00	STUB	FUTURE EXPANSION		i		<u> </u>	
4	6	19400	STUB	FUTURE EXPANSION		i			
5	7	28+00	90" TURN	AVOID C.L. PROPERTY		ı		T	
6	8	41+00	90° TURN	CROSSING TO SHOULDER			1		
7	ii ii	69+00	90° TURN	WETLAND AVOIDANCE			1	T	
В	Ü	70+60	STUB	FUTURE EXPANSION		1		T	
9	11	70+60	INLINE	CROSS SIDE STREET		1,			
10	12	87+50	STUB	FUTURE EXPANSION	 	1			
11	12	87+50	INLINE	CROSS SIDE STREET	+	1	<u> </u>		
12	13	92+60	STUB	FUTURE EXPANSION	—	ī		T .	
13	13	92+60	INLINE	CROSSING SIDE STREET	+	1			
14	13	93+00	STUB	FUTURE EXPANSION	+	r	1	1	
15	13	93+00	2108	FUTURE EXPANSION	+		 	+	
16	14	99+75	90° TURN	NARROW ROW	+			+	
17	13	103+50	INLINE	CROSSING SIDE STREET	+	<u> </u>	 	+	
18	14	103+50	STUB	FUTURE EXPANSION	+	i -	 		
19	14	106+60	STUB	FUTURE EXPANSION	+ ,	· -	ļ	+	
20	14	106+60	INCINE	CROSSING SIDE STREET	+			 	
21	15	113+00	STUB	FUTURE EXPANSION	 	 	-	+	
22	16	122+00	INLINE	CROSSING SIDE STREET		- :		 	
23	16	122+00	STUB	FUTURE EXPANSION	-+!	 	 	+	
		130+00	STUB	FUTURE EXPANSION	+		 	+	
24	17			CROSSING SIDE STREET	+	 	+	+	
25		130+00	INLINE	FUTURE EXPANSION	+		 	+	
26	20	170+75	STUB		 			+	
27	20	170+75	STUE	FUTURE EXPANSION	┼		 		
28	20	175+50	STUB	FUTURE EXPANSION	+	 	 	+	
29	20	175+50	INLINE	CROSSING SIDE STREET			Ļ		
30	21	180+00	INLINE	CROSSING SIDE STREET	+	<u> </u>			
31	21	180+00	STUB	FUTURE EXPANSION		ļ		1	
32	25	161+00	STUB	FUTURE EXPANSION		1	ļ		
33	21	181+00	STUB	FUTURE EXPANSION		1	ļ	4-	
34	22	193+75	STUB	FUTURE EXPANSION		1		1	
35	22	193+75	STUB	FLITURE EXPANSION					
36	22	197+00	45° TURN	CROSSING TO COONEY ROAD		<u> </u>		<u> </u>	
37	23	203+00	INLINE	CROSSING INTO NYS ROW	T	1	<u> </u>		
38	23	203+40	BND	TEE INTO "SM" LINE				I	
				TOTAL	1.00	32.00	4.00	1.00	

lab	te of Construction	on Lengths and Land D	isturbance
Length of Piping	Length of Open Trench	Length of Directional Boring	Trenching Width (MAX)
(fi.)	(fL)	(fL)	(fL)
20,436.00	20,036.00	400.00	3.00
	Lan	d Disturbances:	
Trenching	Reg. Station	Spoils Area*	Staging Area*
(Acres)	(Acres)	(Acres)	(Acres)
1.380	0.103	0.000	0.000
(Acres)	Reg. Station (Acres)	Spoils Area* (Acres)	(Acres)
	Land Disturbance:	1.483	Acres

			TABLE OF STE	REAM CROSSINGS						
NO.	DRAWING SHEET #	PIPE STATION	STREAM NAME	STREAM CLASS	MEATHOD OF CROSSING	STREAM DISTURBANCE (SF)				
	7	28+95	TRIBUTARY OF KING POND	B - PROTECTED	HDD UNDER EXISTING CULVERT	0.00				
2	9	54+00	TRIBUTARY OF KIRK LAKE	C - NON PROTECTED	HDD UNDER EXISTING CULVERT	0.00				
_					TOTAL	0,00				
		HDD: HORIZONTAL DIRECTIONAL DRILLING NOTE: HDD SHALL PLACE NEW PIPING 5 FT MIN UNDER EXISTING CULVERTS.								

		l	PIPE/C	ULVERT			
NO.	DRAWING SHEET #	PIPE STATION	SIZE (INCHES)	MATERIAL	OWNED BY (ASSUMED)	METHOD OF CROSSING	MIN. SEPARATION DISTANCE (FT)
	5	4+10	12	HDPE	MWOT	OPEN TRENCH	1.00
2	5	5+75	(2	HDPE	TOWN	OPEN TRENCH	1.00
3	6	16+60	UNK.	UNK.	TOWN	OPEN TRENCH	1,00
4	7	28+90	UNK.	UNK.	TOWN	HDD	5.00
-5	7	34+60	UNK.	UNK.	TOWN	OPEN TRENCH	1.00
6	9	54+00	36 (2)	CMP	PUTNAM CO.	HDD	5.00
7	11	77+00	15	CPP/HDPE	PUTNAM CO.	OPEN TRENCH	5.00
8	[3	89+75	18	UNK.	TOWN	OPEN TRENCH	1.00
9	16	117+00	UNK.	UNK.	TOWN	OPEN TRENCH	1,00
10	16	126+60	12	HDP£	TOWN	OPEN TRENCH	1.00
Ш	18	143+75	12	CMP	TOWN	OPEN TRENCH	1,00
12	19	144+75	12	HOPE	TOWN	OPEN TRENCH	1.00
13	19	158+25	12	HDPE	TOWN	OPEN TRENCH	1.00
14	19	162+40	10	CMP	TOWN	OPEN TRENCH	1.00
15	20	167+50	12	HDPÉ	TOWN	OPEN TRENCH	1,00
16	20	172+50	12	HDPE	TOWN	OPEN TRENCH	1.00
17	20	174+90	15	CMP	TOWN	OPEN TRENCH	1.00
18	22	194+00	24	UNK,	TOWN	OPEN TRENCH	1.00

			1	ABLE O	F TRENCH	LOCATIONS	
DRAWING SHEET#	STATION TO STATION		LOCATED	LENGTH (FT)			
	START	END	INSTALL UNDER	TURF	PAVEMENT	ROAD	REASON FOR UNDER PAVEMENT
4	0+00	0+25	ROW TURF	25		BULLET HOLE ROAD	
4	0+25	0+50	PAVEMENT		. 25	BULLET HOLE ROAD	CROSSING
4 TO 5	0+50	5+00	ROW TURF	450		BULLET HOLE ROAD	
5	\$+00	8+00	PAVEMENT]	300	BULLET HOLE ROAD	WETLAND AVOIDANCE
5 TO 6	8+00	28+00	ROW TURF	2000		BULLET HOLE ROAD	
7	28+00	28+50	PAVEMENT		50	BULLET HOLE ROAD	CROSSING
7	28+50	32+50	ROW TURF	400		BULLET HOLE ROAD	
7	32+50	42+30	PAVEMENT		980	BULLET HOLE ROAD	NARROW ROW & PROPERTY AT CENTERLINE
7 TO 8	42+30	51+50	ROW TURF	920		HILL STREET (CR 32)	
9	S1+50	54+75	PAVEMENT		325	HILL STREET (CR 32)	WETLAND AVOIDANCE
9 TO 10	54+75	58+75	ROW TURF	400		HILL STREET (CR 32)	
10	58+75	69+00	PAVEMENT		1025	HILL STREET (CR 32)	NARROW ROW & WETLAND AVOIDANCE
11	69+00	73+75	ROW TURF	475		HILL STREET (CR 32)	
11 TO 12	73+75	80+50	PAVEMENT		675	LONG POND RD (CR 32)	WETLAND AVOIDANCE
12	80+50	83+25	ROW TURF	275		LONG POND RD (CR 32)	
12	83+25	97+50	PAVEMENT		425	LONG POND RD (CR 32)	WETLAND AVOIDANCE
12 TO 14	87+50	99+50	ROW TURF	1200		LONG POND RD (CR 32)	<u> </u>
14	99+50	108+50	PAVEMENT		900	LONG POND RD (CR 32)	CROSSING
14 TO 15	108+50	1 3+00	ROW TURF	450		LONG POND RD (CR 32)	
IS TO IS	113+00	144+D0	PAVEMENT		3100	WIXON POND ROAD	NARROW ROW
18 TO 19	144+00	164+25	ROW TURF	2025		WIXON POND ROAD	
19 TO 21	164+25	187+00	PAVEMENT		2275	WIXON POND ROAD	NARROW ROW & WETLAND AVOIDANCE
21	187+00	190+00	ROW TURF	300		WIXON POND ROAD	
21 TO 22	(90+00	198+00	PAVEMENT		800	WIXON POND ROAD	NARROW ROW
22 TO 23	198+00	203+50	ROW TURF	550		COONEY ROAD	
23	203+50	204+00	PAVEMENT		50	COONEY ROAD	CROSSING
23	204+00	201+36	ROW TURE	36		NYS ROUTE 6	
	TOTAL	20436.00		9506.00	10930.00		



BRETT D. REYNOLDS

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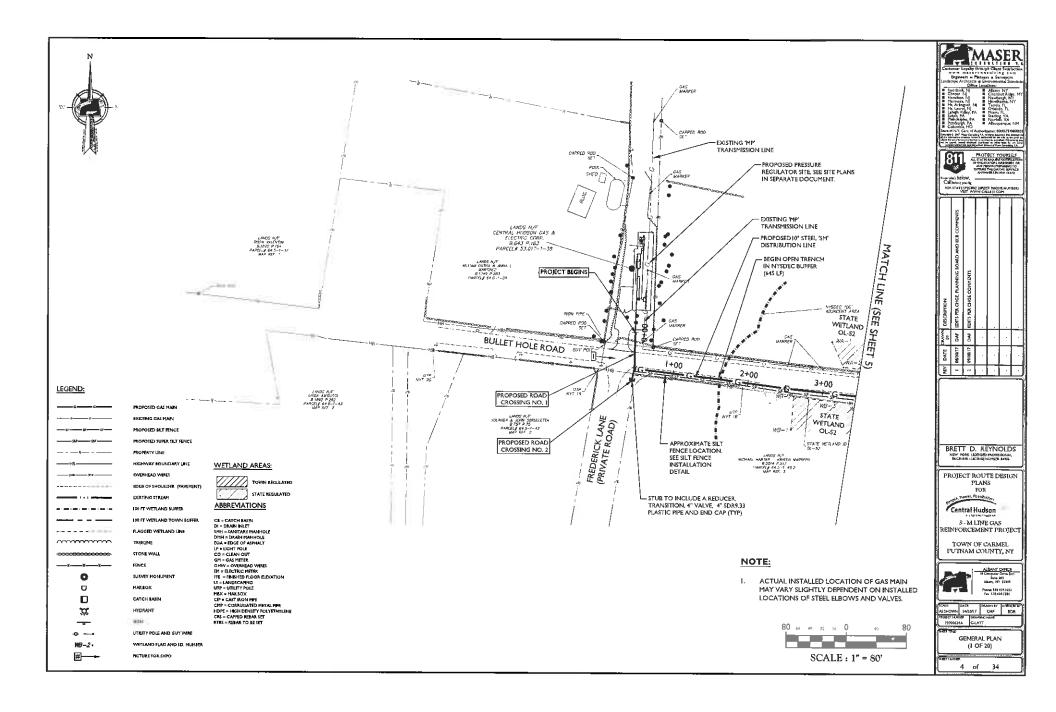
PROJECT ROUTE DESIGN
PLANS
FOR
Central Hudson
S-M LINE GAS
REINFORCEMENT PROJECT

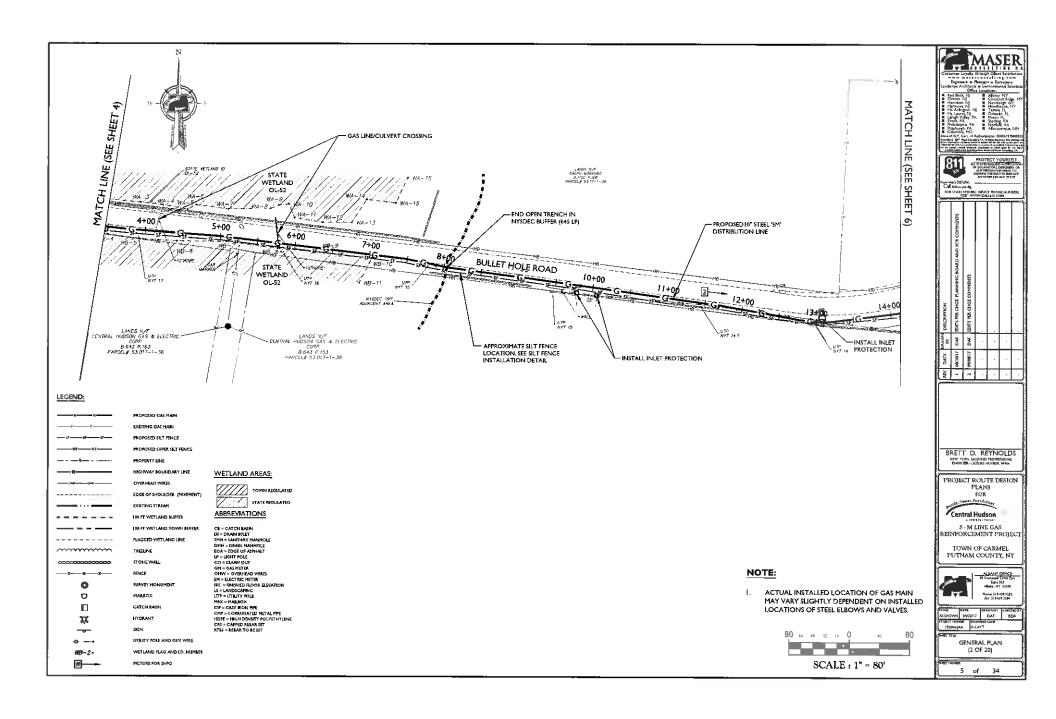
TOWN OF CARMEL PUTNAM COUNTY, NY

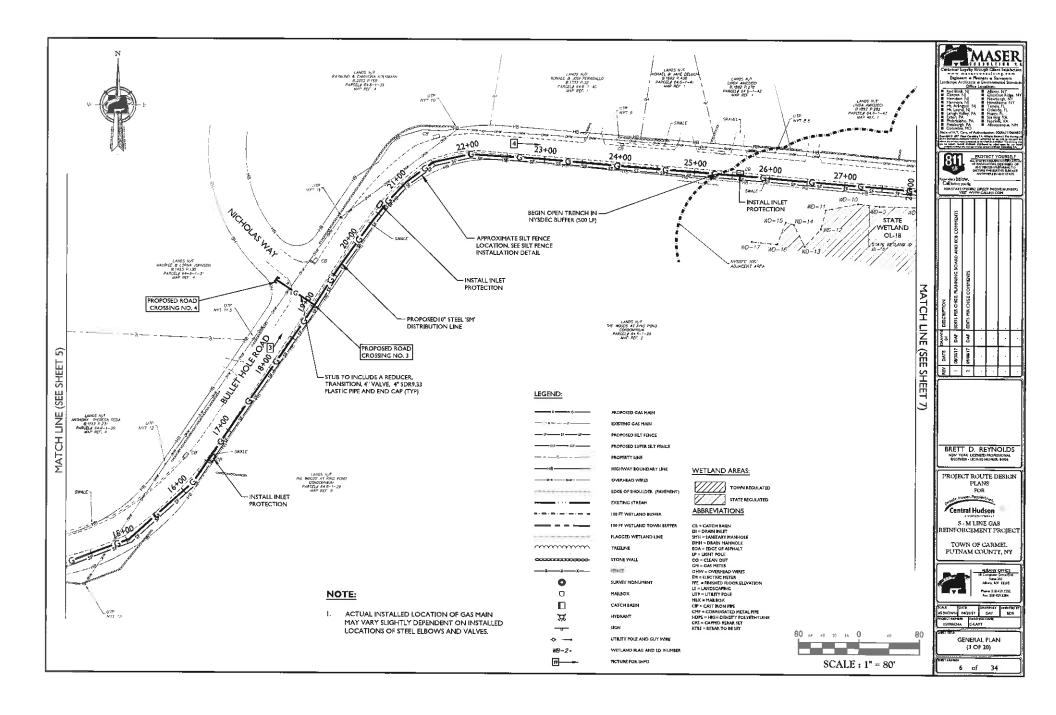


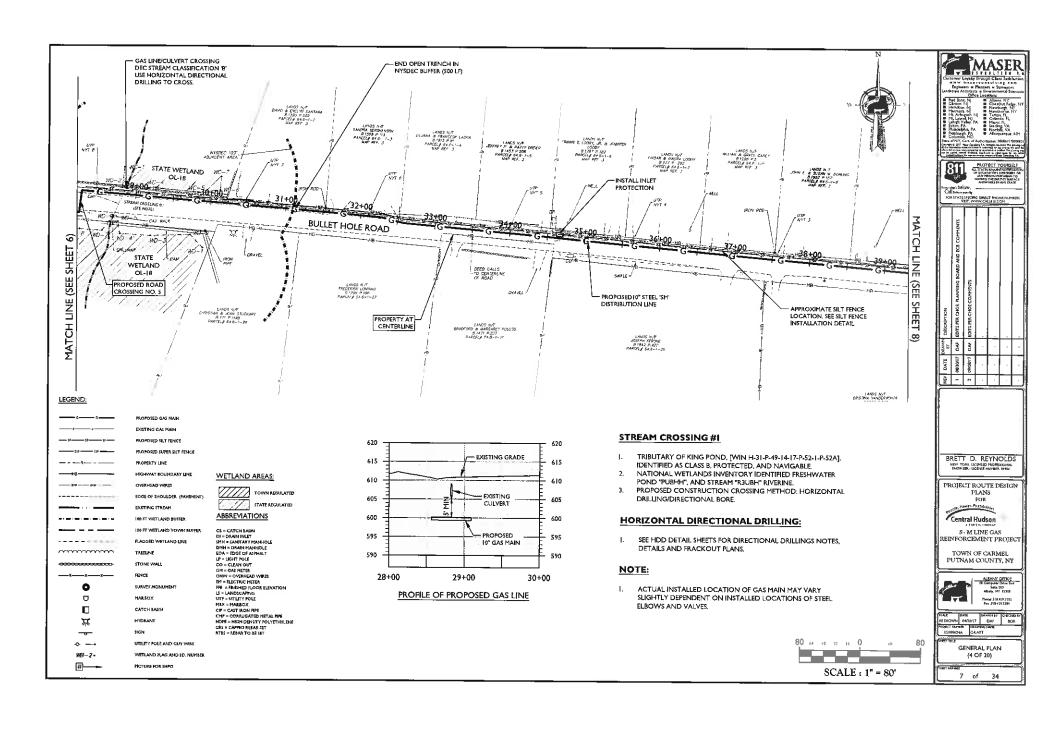
MISC. TABLES

3 of 34











LEGEND:

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PROPOSED GAS HAIN

EXISTING GAS MAIN

OVERHEAD WIRES EDGE OF SHOULDER (PAVEMENT)

100 FT WETLAND BUFFER

FLAGGED WETLAND LINE

TREELINE

MARLOX

HYDRANT

CATCH BASIN

UTILITY POLE AND GUY WIRE

WETLAND FLAG AND I.D. NUMBER

STONE WALL

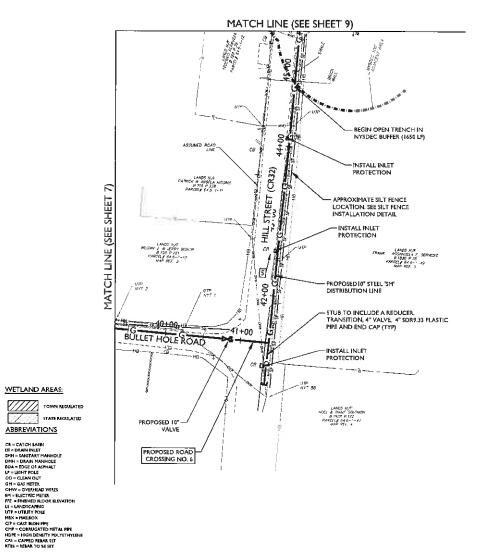
100 FT WETLAND TOWN BUFFER

PROPOSED SILT FENCE

PROPOSED SUPER SILT FENCE PROPERTY LINE HIGHWAY BOUNDARY LINE

WETLAND AREAS:

ABBREVIATIONS



NOTE:

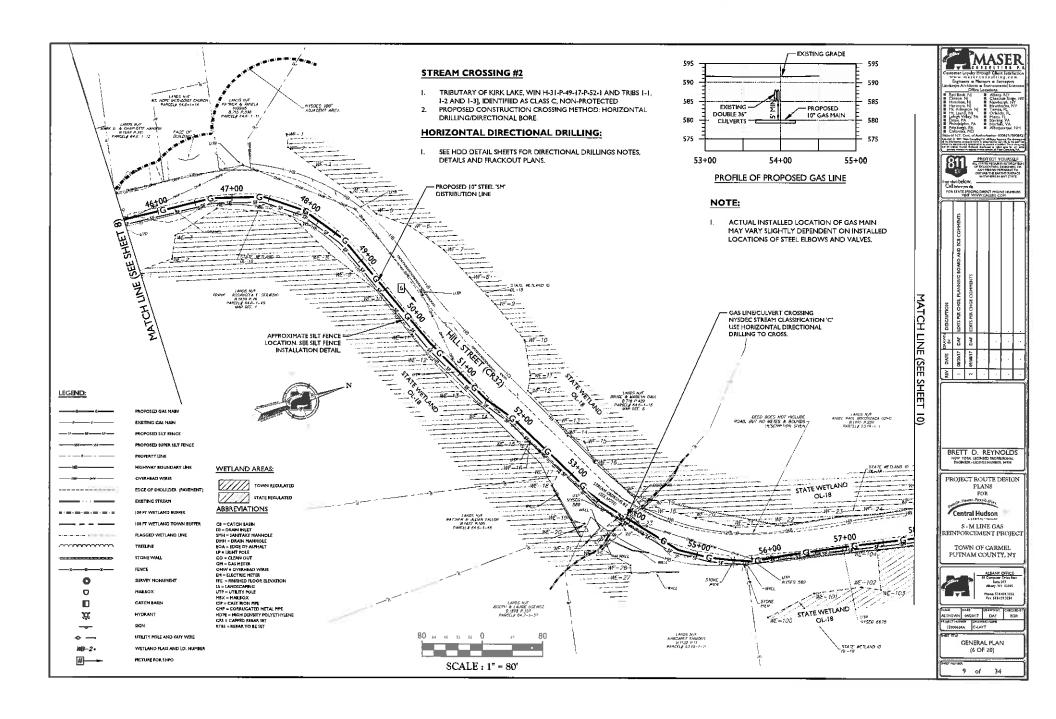
ACTUAL INSTALLED LOCATION OF GAS MAIN MAY VARY SLIGHTLY DEPENDENT ON INSTALLED LOCATIONS OF STEEL ELBOWS AND VALVES.

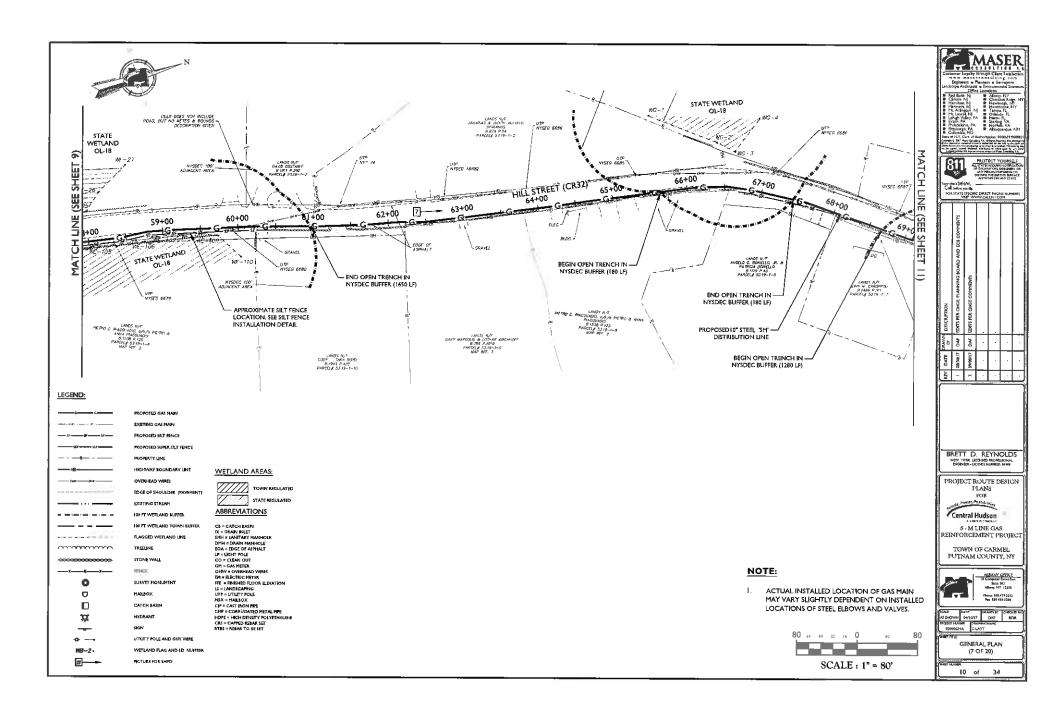


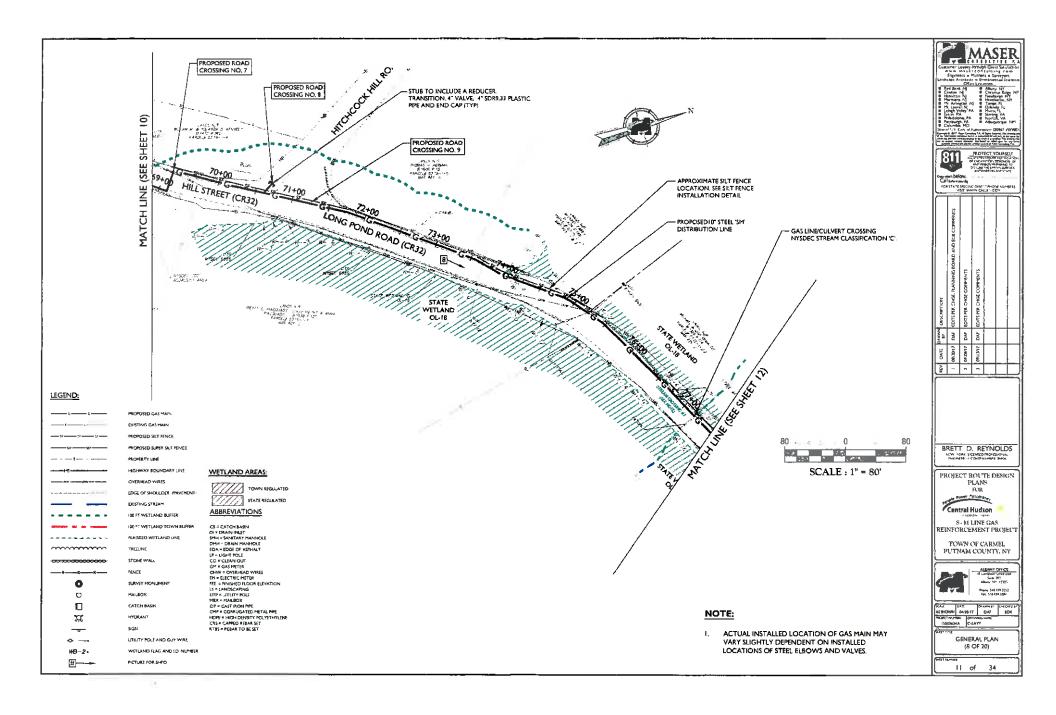
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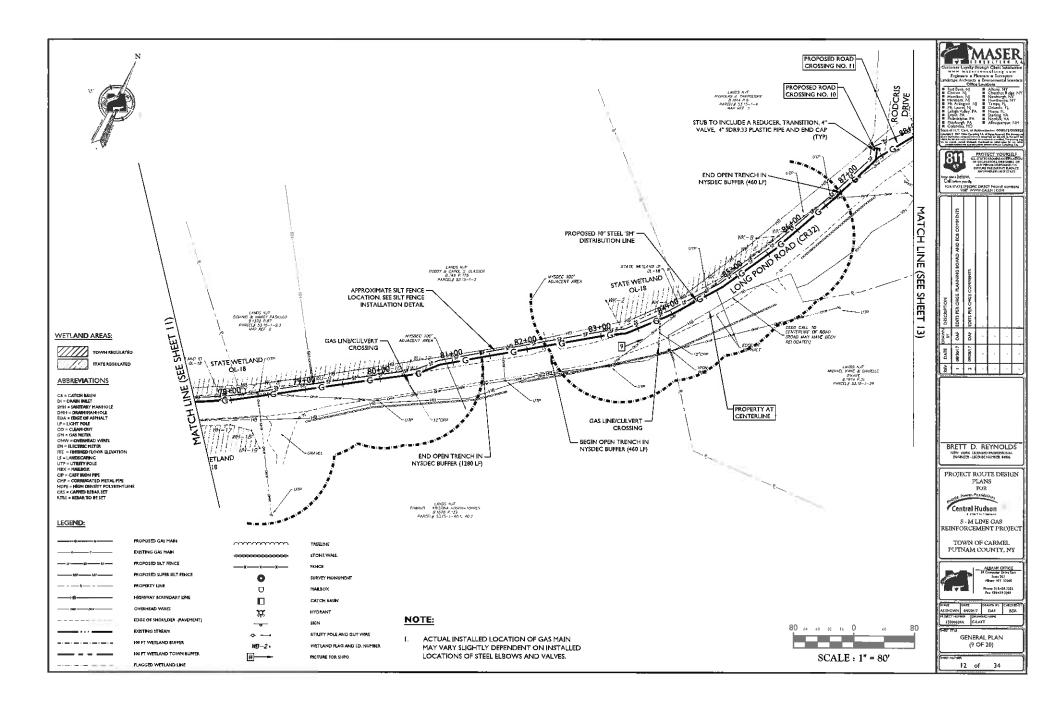
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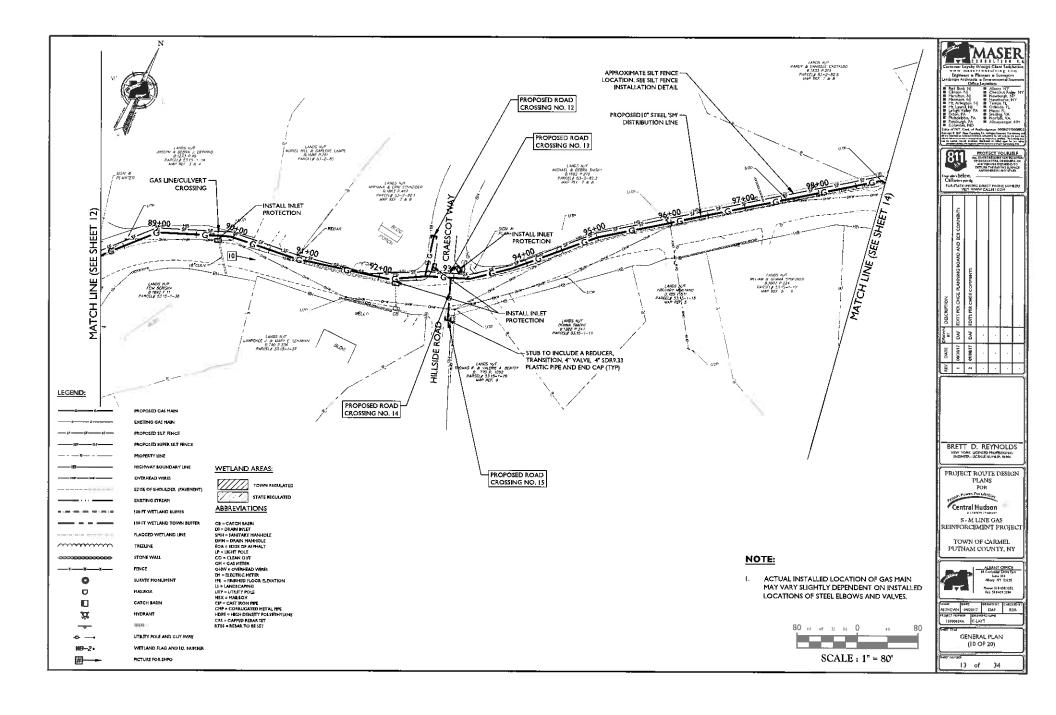
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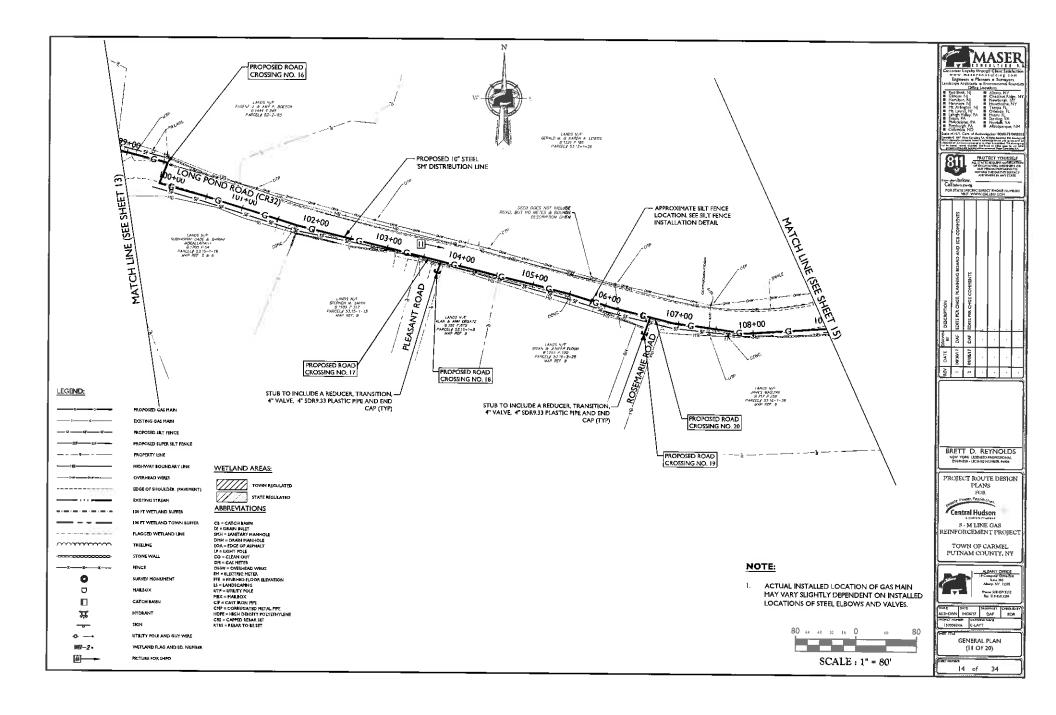


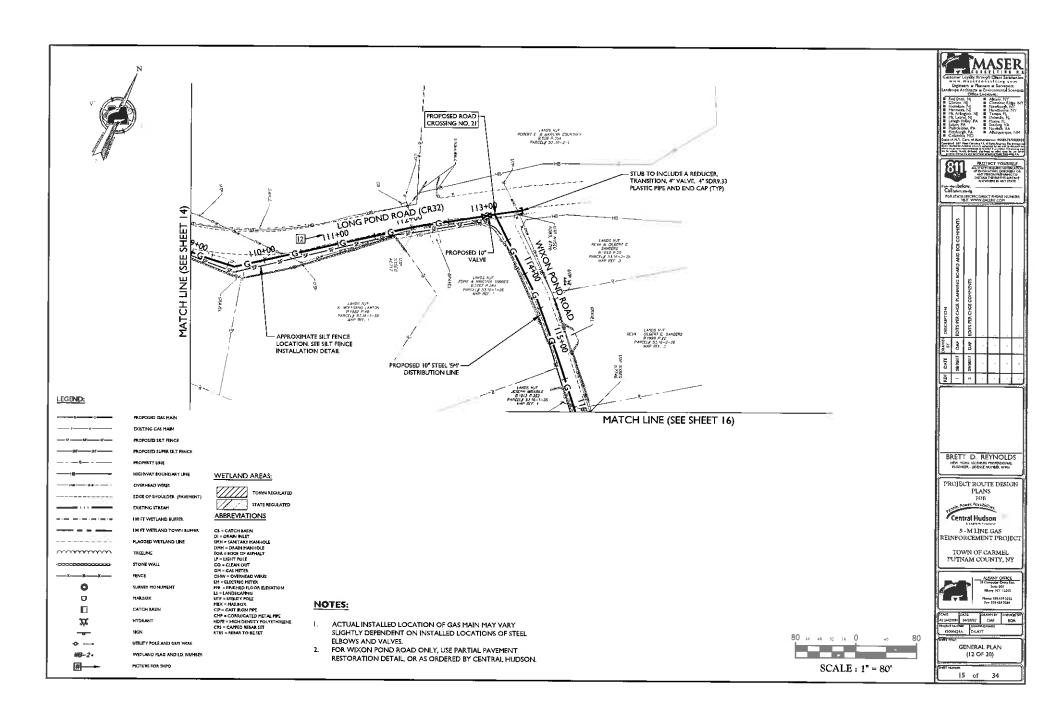


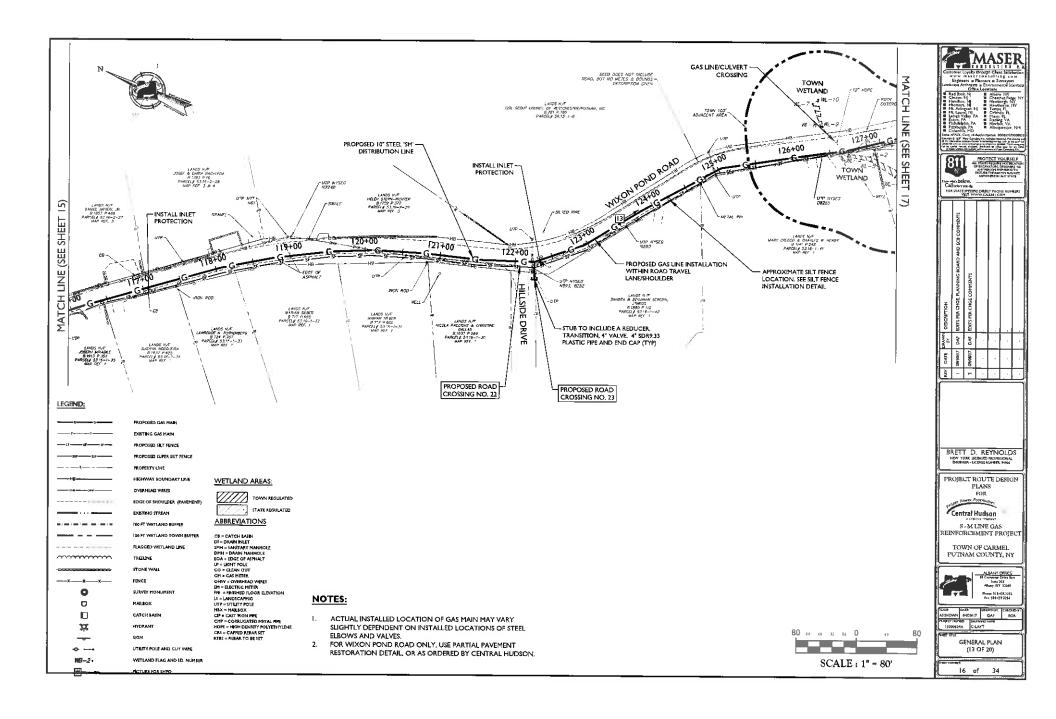


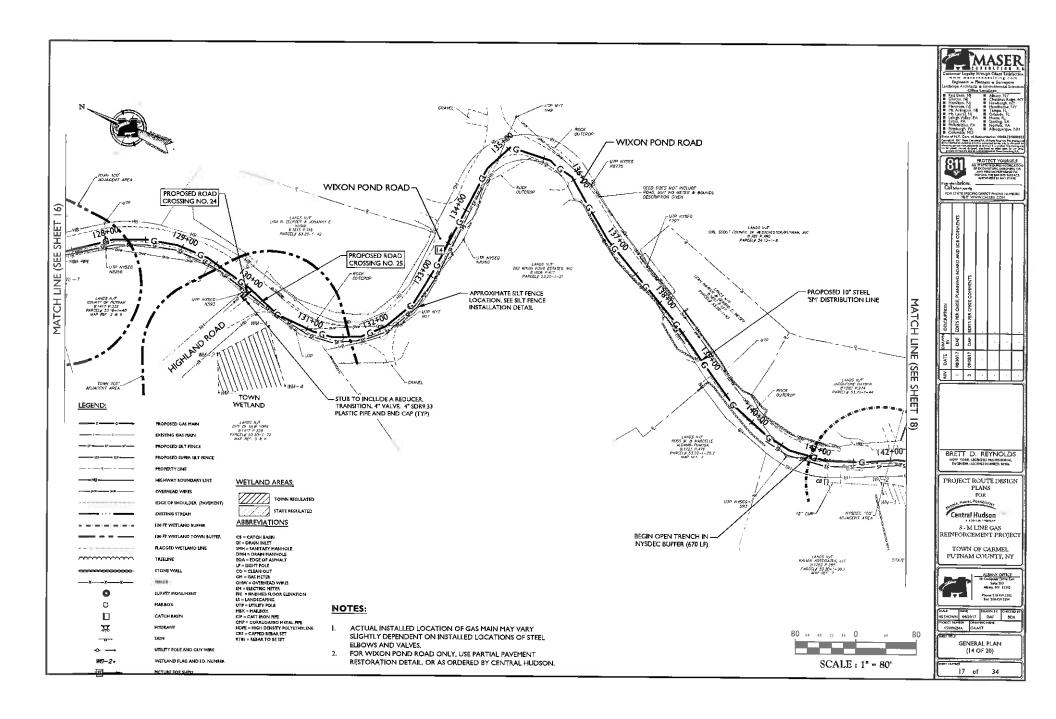


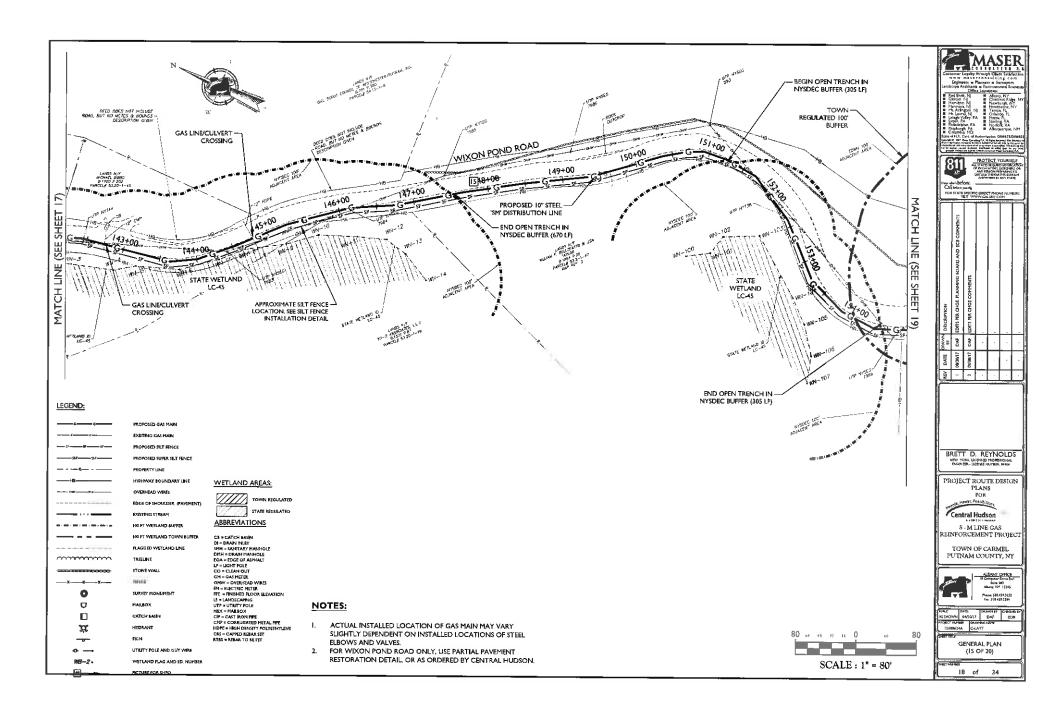


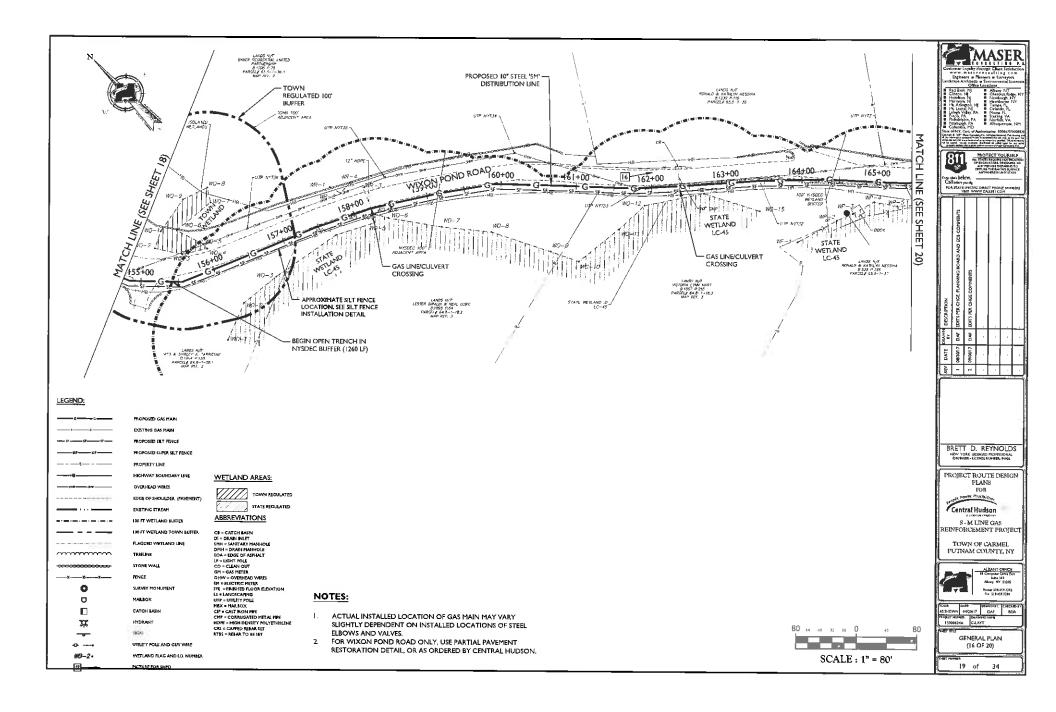


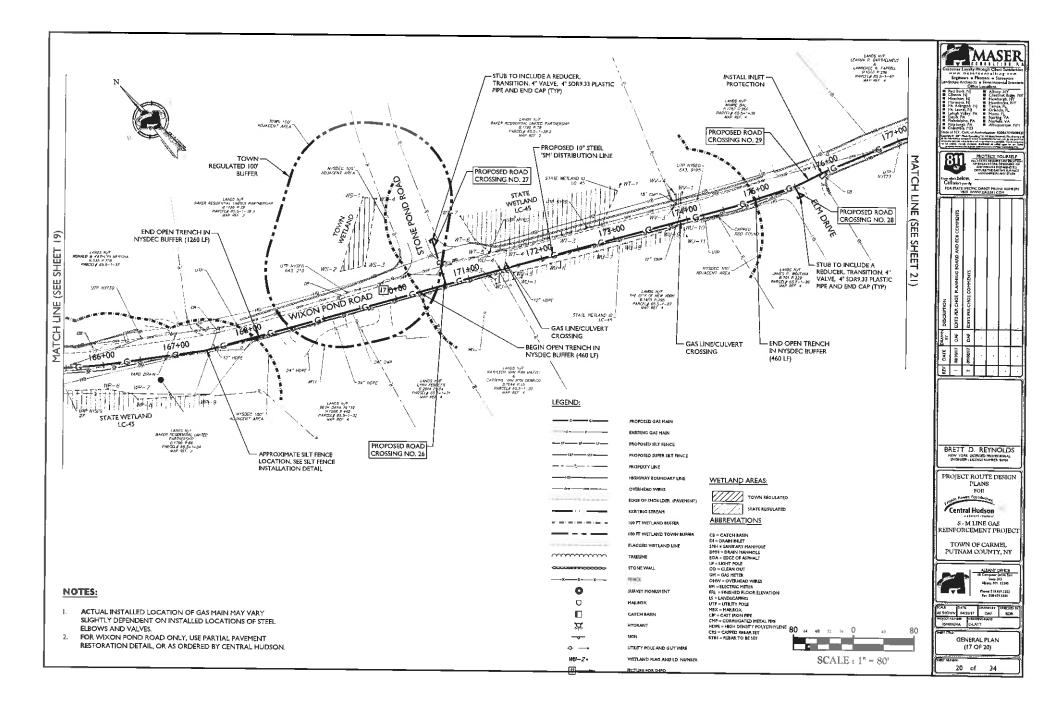


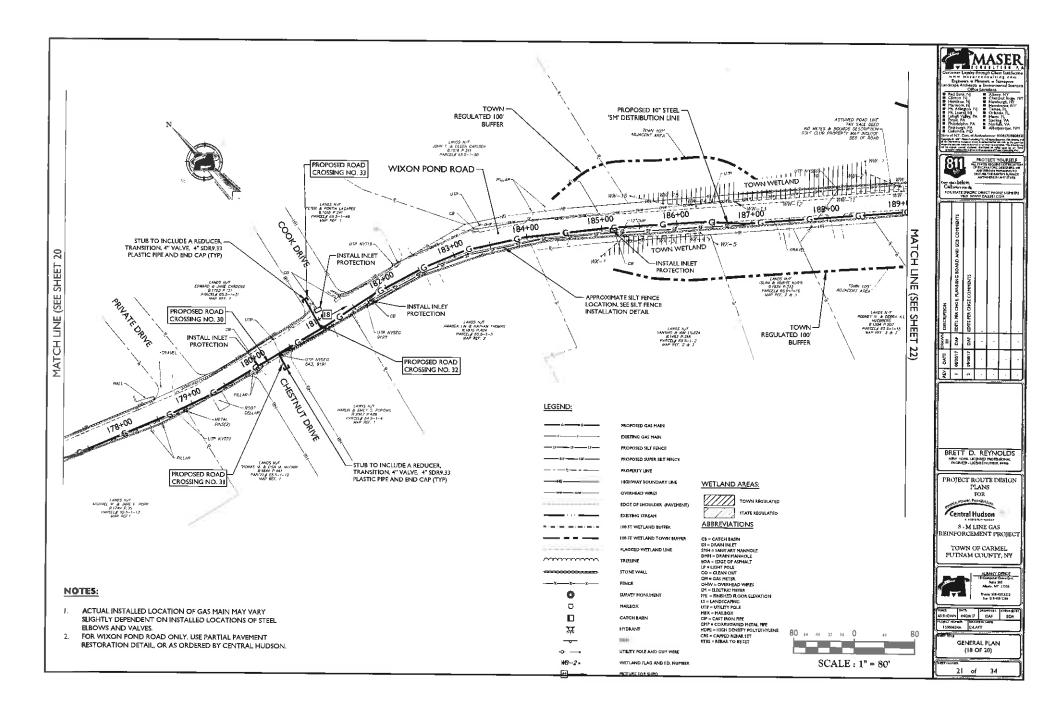


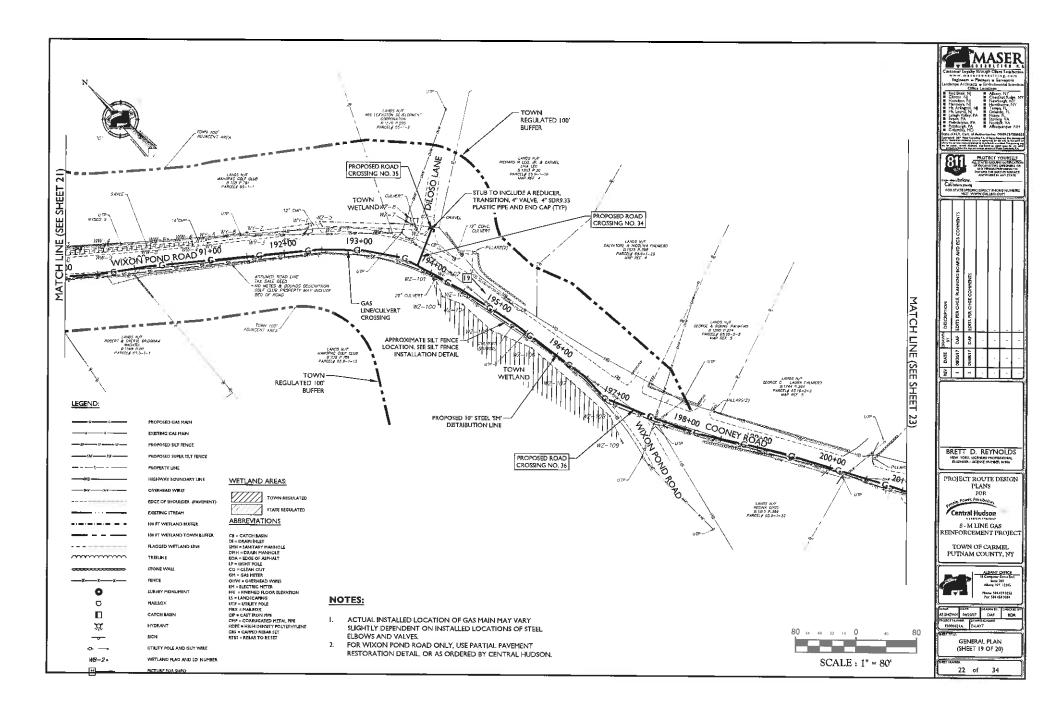


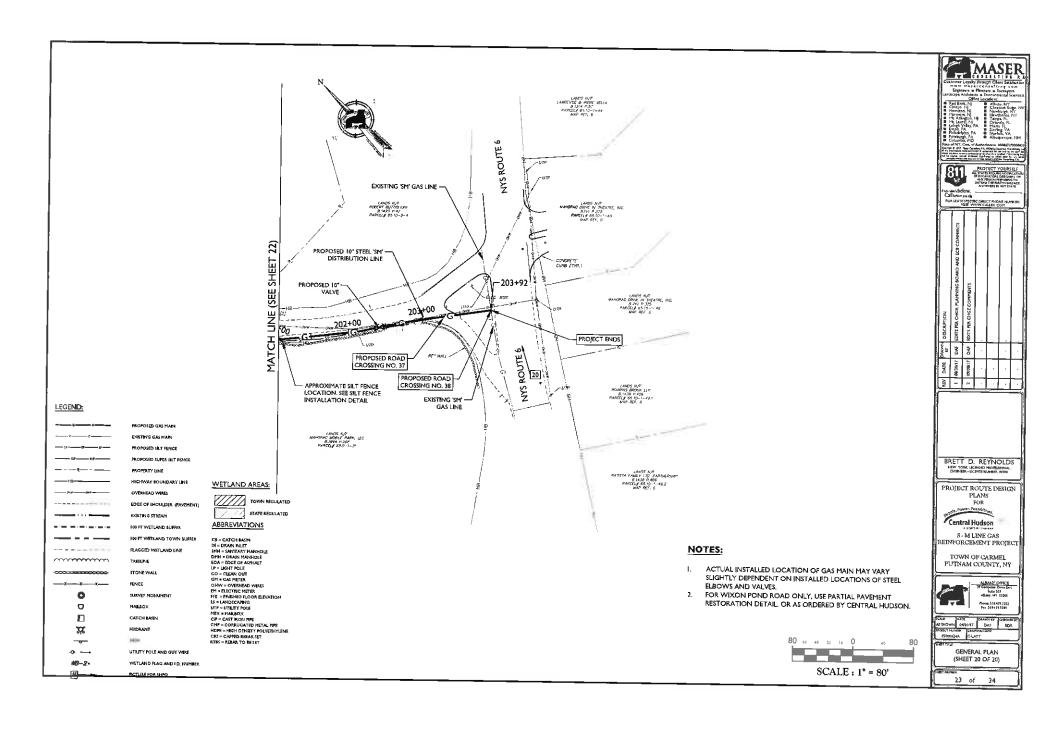












WORK ZONE TRAFFIC CONTROL GENERAL NOTES:

- THE CONTRACTOR SHALL MAINTAIN TRAFFIC THROUGHOUT THE LENGTH OF THE CONTRACT IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 619 OF THE CURRENT STANDARD SPECIFICATIONS (FOR WORK WITHIN THE NYSDOT RIGHT-OF-WAY), THE NYSDOT WORK ZONE TRAFFIC CONTROL MANUAL FOR ALL PROJECTS, THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) WITH THE NEW YORK SUPPLEMENT, THE TEMPORARY TRAFFIC CONTROL DETAILS IN THE PLANS AND PROPOSAL OF THIS CONTRACT, AND AS ORDERED BY THE ENGINEER (AOBE).
- WORK ZONE TRAFFIC CONTROL SHALL CONFORM TO ANY AND ALL REQUIREMENTS OF NYSDOT WORK PERMITS.
- FOR TYPICAL APPLICATIONS OF TRAFFIC CONTROL DEVICES IN CONSTRUCTION AREAS NOT SPECIFIED IN THE PLANS, THE PROVISIONS OF PART 5 AND 6 OF THE MUTCH WITH THE NYS SUPPLEMENT SHALL APPLY. THE STANDARDS OF APPLICATION NOTED THEREIN AND ON THE PLANS ARE TO BE CONSIDERED MINIMUM STANDARDS.
- ROADWAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES.
- ALL PAVEMENT AND NON-PAVEMENT AREAS TEMPORARILY CLOSED FOR TRENCH, OR CONDUIT EXCAVATION OR EXCAVATION REQUIRED FOR ALTERING EXISTING UNDERGROUND UTILITIES AND/OR DRAINAGE STRUCTURES SHALL BE REOPENED AT THE END OF THE WORK DAY.
- THE TYPICAL DETAILS DEPICTED ON THE STANDARD SHEETS AND IN THE MUTCO, REFLECT THE MINIMUM REQUIREMENTS
- THE CONTRACTOR MUST SUBMIT TO THE ENGINEER, IN WRITING. PROPOSED REVISIONS TO THE TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE. FOR WORK WITHIN THE NYSDOT RIGHT-OF-WAY, FIVE (5) WORK DAYS PRIOR TO THE PLANNED IMPLEMENTATION OF SUCH PROPOSED REVISIONS, EXCEPT FOR CHANGES THAT ALTER THE SCOPE OF THE TRAFFIC CONTROL PLAN, SUCH CHANGES IN SCOPE MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE THIRTY (30) WORKING DAYS PRIOR TO IMPLEMENTATION FOR SUCH REVISIONS.
- THE CONTRACTOR SHALL PROVIDE THE ENGINEER, IN WRITING, WITH THE NAMES, ADDRESSES, AND TELEPHONE NUMBERS OF STAFF WHO ARE AUTHORIZED TO SECURE LABOR, MATERIALS, AND EQUIPMENT FOR EMERGENCY REPAIRS OUTSIDE NORMAL WORKING HOURS, THE ENGINEER WILL PROVIDE THE SUBMITTED INFORMATION TO REGIONAL MANAGEMENT, THE NEW YORK STATE POLICE, THE RESIDENT ENGINEER, AND THE LOCAL POLICE.
- THE WORK ZONE TRAFFIC CONTROL TYPICALS SHOWN (TAST-CIUL, C2UL, C3UL, C4, AND TAG-CEI), ARE CONTAINED IN THE NYSDOT WORK ZONE TRAFFIC CONTROL MANUAL, FEBRUARY 2015, AND APPLY TO ALL PROJECTS

LANE WIDTHS

- 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'.
- 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.

LANE CLOSURES

- THE CONTRACTOR SHALL LOCATE LANE CLOSURES TO PROVIDE OPTIMUM VISIBILITY, I.E. BEFORE CURVES AND CRESTS, TO THE EXTENT CONDITIONS PERMIT.
- 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.

PAVEMENT EDGE DROPOFF NOTES:

- NO DROP-OFFS SHALL EXIST BETWEEN ANY OF THE FOLLOWING PAVEMENTS OUTSIDE OF WORKING HOURS OR AS DIRECTED BY THE
- TRAVEL LANES, SHOULDERS, DRIVEWAY ENTRANCES, SIDEWALKS AND PATHS
- THE COST OF PROVIDING AND MAINTAINING SAFE AND ADEQUATE VEHICULAR, BICYCLE AND PEDESTRIAN TRAFFIC AT INTERSECTING PAVEMENTS SHALL BE INCLUDED IN THE PRICE BID FOR TRAFFIC

ACTIVITY AREA

- THE CONTRACTOR SHALL MAINTAIN A MINIMUM SOO LONGITUDINAL DISTANCE BETWEEN CONSTRUCTION OPERATIONS ON ALTERNATE SIDES OF THE ROADWAY, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- 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.

DRIVEWAY ACCESS NOTES:

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 LINESS OTHER SUITABLE ARRANGEMENTS HAVE BEEN MADE WITH THE

THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE DRIVEWAY ENTRANCE AT ALL TIMES WHERE AN OWNERS FACILITY HAS TWO OR MORE DRIVEWAY ENTRANCES.

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

FLAGGERS

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 FOR SAFE, EFFICIENT TRAFFIC OPERATIONS, OR AT LOCATIONS AS DIRECTED BY THE ENGINEER THE CONTRACTOR SHALL NOT UNDERTAKE WORK AT MORE LOCATIONS THAN COMPETENT, TRAINED FLAGGERS ARE AVAILABLE TO SAFELY CONTROL TRAFFIC. ALL FLAGGERS SHALL BE ADEQUATELY TRAINED IN FLAGGING OPERATIONS BY RECOGNIZED TRAINING PROGRAMS, TO INCLUDE THE AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (AYSSA), THE NATIONAL SAFETY COUNCIL, UNIONS, OR CONSTRUCTION INDUSTRY
ASSOCIATIONS, OR BY AN INDIVIDUAL WHO HOLDS A CURRENT CERTIFICATION AS A FLAGGER TRAINING INSTRUCTOR FROM SUCH 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 INDIVIDUAL OR WHEN AN INDIVIDUAL PROPOSED TO BE A FLAGGER ARRIVES ON THE PROJECT THE INDIVIDUAL WILL PROVIDE THE ENGINEER WITH 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 NOT BE ALLOWED TO ACT AS A FLAGGER ON THE PROJECT, WHEN THE ENGINEER DEEMS A FLAGGER IS NOT COMPETENT IN FLAGGING PROCEDURES THE INDIVIDUAL SHALL BE REPLACED

NIGHTTIME OPERATIONS

- WORK OCCURRING AFTER SUNSET AND BEFORE SUNRISE WILL BE CONSIDERED NIGHTTTIME OPERATIONS, ALL WORKERS INVOLVED IN NIGHTTIME OPERATIONS SHALL WEAR PROTECTIVE HELMETS AND NIGHTTIME APPAREL IN ACCORDANCE WITH ANSI 107, CLASS
- THE CONTRACTOR SHALL NOT WORK AFTER SUNSET OR BEFORE SUNRISE WITHOUT THE PRIOR APPROVAL OF THE ENGINEER
- 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 LISING 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.
- THE ENGINEERS APPROVAL FOR NIGHTTIME OPERATIONS SHALL BE CONTINGENT UPON THE CONTRACTOR HAVING SUBMITTED AND BEEN APPROVED A NIGHTIME OPERATIONS AND LIGHTING PLAN. THE PLAN IS TO BE SUBMITTED TO THE ENGINEER A MINIMUM OF 30 DAYS PRIOR TO THE START OF NIGHTTIME OPERATIONS, FOR DETAILS OF THE PLAN REQUIREMENTS THE CONTRACTOR IS TO CONSULT WITH THE ENGINEER.

WORK ZONE SIGNS

- 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 IN CHARGE
- 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 RESTORED TO THEIR ORIGINAL CONDITION AND/OR LOCATION UNLESS OTHERWISE REPLACED IN THIS CONTRACT.
- SIGNS AT OR NEAR INTERSECTIONS SHALL BE PLACED SO THAT THEY DO NOT OBSTRUCT A MOTORIST'S LINE OF SIGHT
- 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 TRAVEL LANE TO ONE LANE, SIGNS SHALL BE POSTED ON THE RIGHT SIDE OF THE ACTIVE TRAVEL LANE, UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER
- 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 HORIZONTAL POSITION IS NOT PERMITTED.
- THE DIMENSIONS OF WORK ZONE TRAFFIC CONTROL SIGNS ARE DESCRIBED IN THE MUTCO. ANY CHANGES TO THE DIMENSIONS SHALL BE APPROVED BY THE REGIONAL DIRECTOR OR BY HIS/HER DESIGNEE FOR WORK WITHIN THE NYSDOT RIGHT-OF-WAY.
- NYR9-12 MAY BE USED IN PLACE OF NYR9-11.

BARRIER/SHADOW VEHCLES

- BARRIER AND SHADOW VEHICLES SHALL BE REQUIRED AS PER STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES".
- 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).

REQUIREMENTS FOR PORTABLE VARIABLE MESSAGE SIGNS:

- PORTABLE VARIABLE MESSAGE SIGNS SHALL BE PLACED AT ALL MAJOR APPROACHES TO THE PROJECT OR, FOR CONTRACTS WITH MULTIPLE LOCATIONS, AT ALL MAJOR APPROACHES TO EACH LOCATION, AS DIRECTED BY THE CENTRAL HUDSON.
- 2. PORTABLE VARIABLE MESSAGE SIGNS WILL BE USED TO NOTIFY MOTORISTS AT LEAST TWO WEEKS IN ADVANCE OF THE ANTICIPATED START OF WORK DATE AT EACH LOCATION AND. WHEN APPLICABLE, THE ANTICIPATED START OF EACH SUBSEQUENT STAGE THAT REQUIRES A NEW WORK ZONE TRAFFIC CONTROL PATTERN, THE SIGNS SHALL REMAIN IN PLACE UNTIL UNTIL ALL WORK IS COMPLETED AT A LOCATION OR IN A STAGE, OR AS DIRECTED BY CENTRAL HUDSON
- THE FOLLOWING IS A SUMMARY OF THE ANTICIPATED NEED FOR PORTABLE VARIABLE MESSAGE SIGNS:

LOCATION (SEE DETOUR PLAN): PVMS I

LOCATION: LONG POND ROAD (CR 32) DURATION: LENGTH OF PROJECT PVMS 2

LOCATION: NYS ROUTE 6 NORTHBOUND DURATION: LENGTH OF PROJECT PVMS 3

LOCATION: NYS ROUTE 6 SOUTHBOUND DURATION: LENGTH OF PROJECT

STANDARD (TYPICAL) MESSAGES FOR PORTABLE VARIABLE MESSAGE SIGNS SHALL BE SUPPLIED TO THE CONTRACTOR BY THE ENGINEER. THE CONTRACTOR SHALL SUBMIT ANY UNIQUE MESSAGES TO THE CENTRAL HUDSON FOR APPROVAL BY THE SURFACE CENTRAL MUDSON FOR APPROVAL BY THE SURFACE TRANSPORTATION CONTROLLER. REQUESTS FOR MESSAGE APPROVAL SHOULD ACCOMPANY THE ROAD WORK FORM DESCRIBED IN THE TEMPORARY LANE AND SHOULDER CLOSURES

CHANGES TO THE WORK ZONE TRAFFIC CONTROL PLAN:

THE CONTRACTOR MUST SUBMIT TO THE ENGINEER, IN WRITING, PROPOSED REVISIONS TO THE WORK ZONE TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE A MINIMUM OF SEVEN (7) CALENDAR DAYS PRIOR TO THE PLANNED IMPLEMENTATION OF SUCH PROPOSED REVISIONS, EXCEPT FOR CHANGES THAT ALTER THE BASIC CONCEPT OR SCOPE OF THE WORK ZONE TRAFFIC CONTROL PLAN, SUCH CHANGES TO THE BASIC CONCEPT OR SCOPE MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE A MINIMUM OF FORTY-FIVE (45) CALENDAR DAYS PRIOR TO IMPLEMENTATION OF SUCH REVISIONS.

WORK TIME RESTRICTIONS:

EXCEPT IN THE CASE OF EMERGENCIES, OR WITH PRIOR WRITTEN APPROVAL FROM TOWN OF CARMEL, THE FOLLOWING WORK HOURS SHALL BE OBSERVED:

MONDAY - FRIDAY: 8AM TO 6PM SATURDAY: 6AM TO 4PM SUNDAY: NO WORK ALLOWED

2. THERE SHALL BE NO WORK WITHIN THE TOWN OF CARMEL ON THE FOLLOWING DAYS:

- COLUMBUS DAY MONDAY, OCTOBER 8. BEGINNING 6:00 AM FRIDAY OCTOBER 5 AND ENDING 10:00 AM TUESDAY OCTOBER 9. ST PATRICK'S DAY - SATURDAY, MARCH 17, BEGINNING 6:00 AM FRIDAY MARCH 16 AND ENDING 8:00 AM MONDAY MARCH 19.
- CENTRAL HUDSON, TOWN OF CARMEL PUTNAM COUNTY AND/OR NYSDOT MAY IMPOSE FURTHER TIME RESTRICTIONS ON WORK CORRIDORS AS TRAFFIC CONDITIONS WARRANT.

WORK WITHIN MYS ROUTE 6 ROW:

THERE SHALL BE NO TEMPORARY LANE CLOSURES ON ROADWAY FACILITIES OWNED AND/OR MAINTAINED BY NYSDOT ON THE MAJOR HOLIDAYS LISTED BELOW.

- NEW YEAR'S DAY MONDAY JANUARY I. BEGINNING 6:00 AM FRIDAY, DECEMBER 29 AND ENDING 6:00 AM TUESDAY, JANUARY 2.
- MOTHERS DAY SUNDAY, MAY 13. BEGINNING 6:00 AM FRIDAY MAY 11 AND ENDING 10:00 AM MONDAY MAY 14.
- MEMORIAL DAY MONDAY MAY 28. BEGINNING 6:00 AM FRIDAY, MAY 25 AND ENDING 6:00AM TUESDAY, MAY 29. INDEPENDENCE DAY - WEDNESDAY JULY 4. BEGINNING 6:00 AM TUESDAY, JULY 3 AND ENDING 6:00 AM THURSDAY, JULY 5.
- LABOR DAY MONDAY, SEPTEMBER 3. BEGINNING 6:00 AM FRIDAY, AUGUST 31 AND ENDING 6:00 AM TUESDAY, SEPTEMBER 4.
- COLUMBUS DAY MONDAY, OCTOBER 8. BEGINNING 6:00 AM FRIDAY OCTOBER 5. AND ENDING 10:00 AM TUESDAY OCTOBER 9.
- THANKSGIVING DAY THURSDAY, NOV. 22. BEGINNING 6:00 AM WEDNESDAY, NOVEMBER 21 AND ENDING 6:00 AM MONDAY
- CHRISTMAS DAY TUESDAY, DECEMBER 25. BEGINNING 6:00 AM FRIDAY, DECEMBER 21 AND ENDING 6:00 AM WEDNESDAY, DECEMBER 26.



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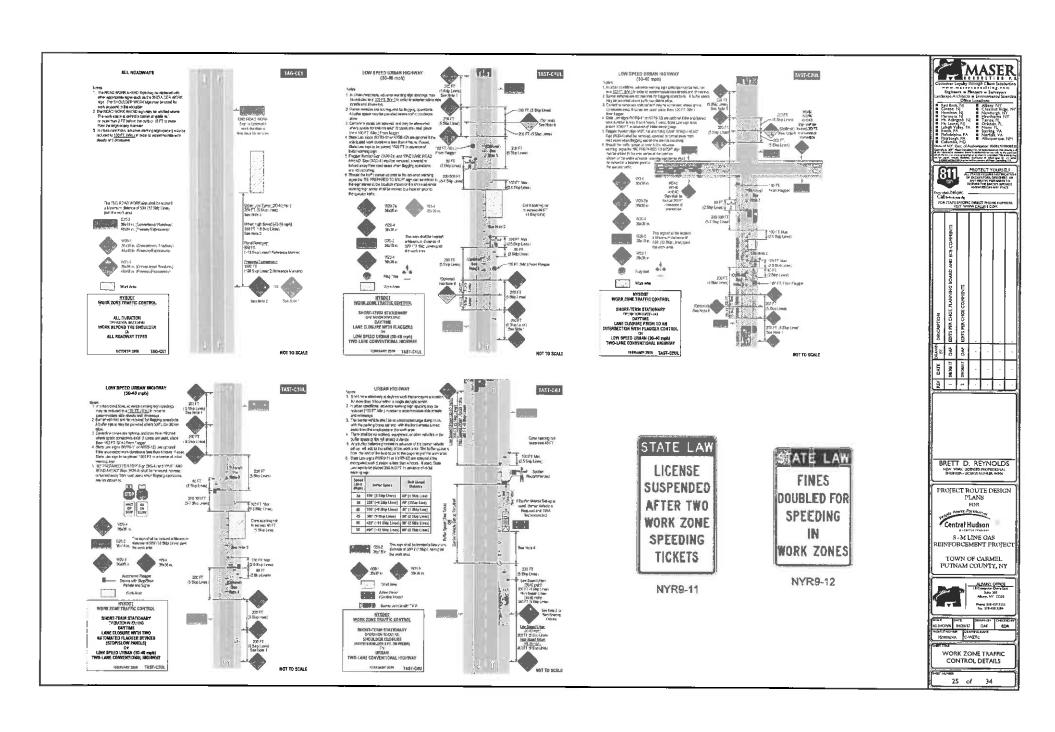
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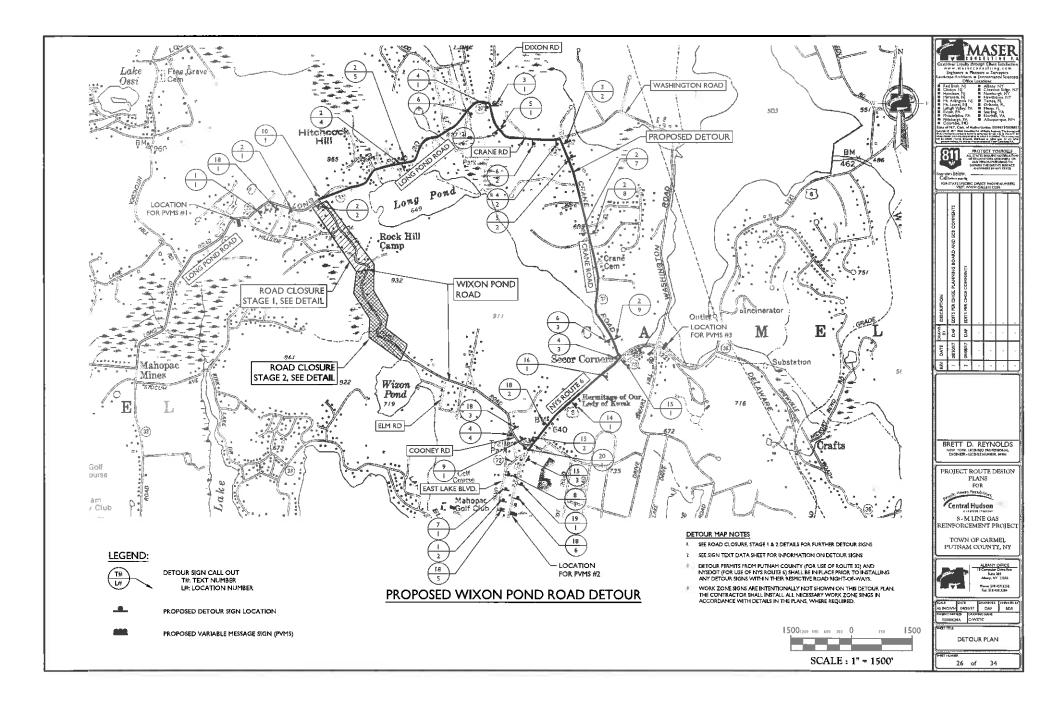
S-M LINE GAS REINFORCEMENT PROJECT

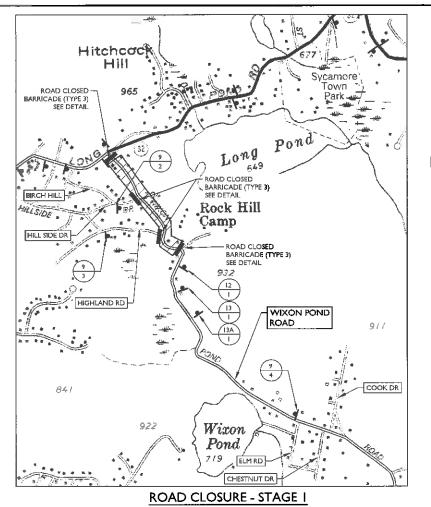
TOWN OF CARMEL PUTNAM COUNTY, NY

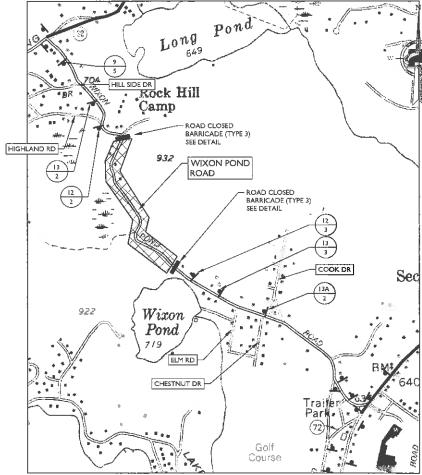


WORK ZONE TRAFFIC CONTROL NOTES









WIXON POND ROAD DETOUR

ROAD CLOSURE - STAGE 2 WIXON POND ROAD DETOUR

LEGEND:



DETOUR SIGN CALL OUT T#: TEXT NUMBER L#: LOCATION NUMBER



PROPOSED DETOUR SIGN LOCATION

BARRICADE (TYPE 3) - SEE DETAIL

STAGED DETOUR MAP NOTES

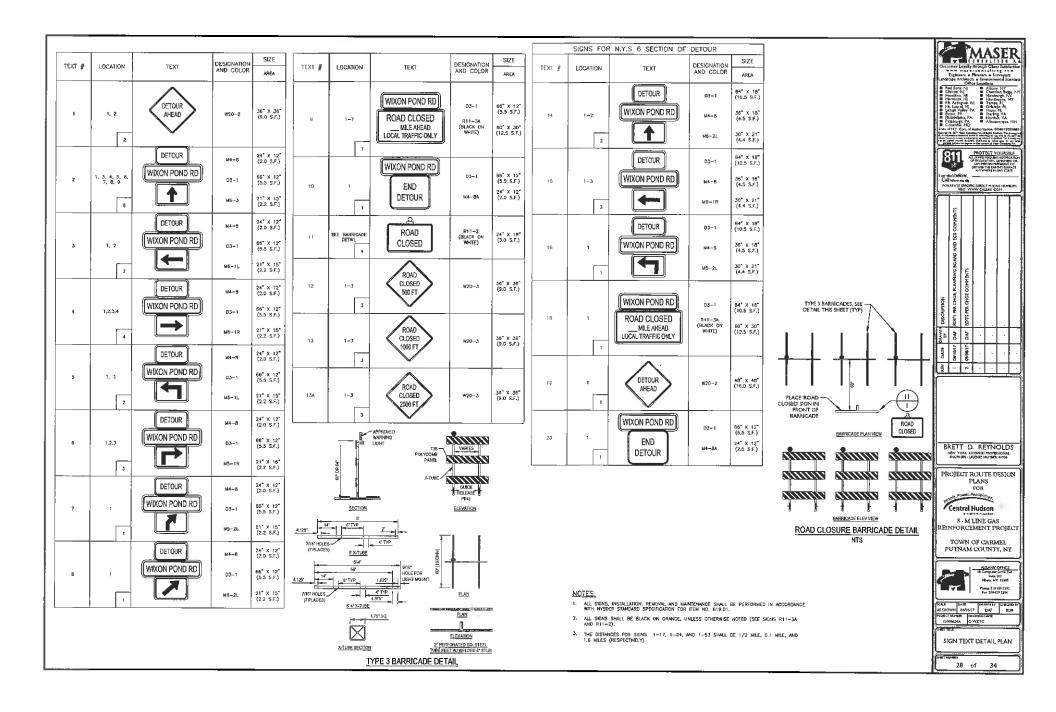
- SEE DETOUR PLAN FOR FURTHER DETOUR SIGNS
- SEE SIGN TEXT DATA SHEET FOR INFORMATION ON DETOUR SIGNS
- WORK ZONE SIGNS ARE INTENTIONALLY NOT SHOWN ON THIS DETOUR PLAN. THE CONTRACTOR SHALL INSTALL ALL NECESSARY WORK ZONE SINGS IN ACCORDANCE WITH DETAILS IN THE PLANS, WHERE REQUIRED.

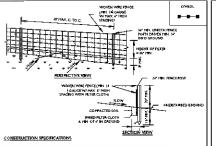




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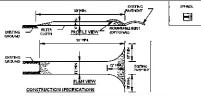
ROAD CLOSURE PLAN





- WOMEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TEST OR STAINES, POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
- 2. HENER CLOTH TO SETO SE FASTENED SECURELY TO WOVEN WARE RENCE WITH THE SPACED EVERY 24" AT TOP AND MID SECTION FENCES HALL BE WOVEN WARE 12 1/2 GRAUGE 6" MAXIMUM MESH OPENING.
- WHISH TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPTER BY SIX MICHES AND FOLIDED. RETEX CLOTH SHALL BE ETHER MINARI 180X, STABLEZATION, OR APPROVED EQUIVALENT.
- I, PREFABRICATED UNITS SHALL BE GEOFAS, ENVIROPENCE, OR APPROVED EQUIVALENT.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL RÉMOVED WHEN TULIGES DEVELOS IN THE SILT FENCE.





I. STONE SIZE - USE 2" STONE, OR RECUAINED OR RECYCLED CONCRETE EQUIVALENT, 2. LENGTH - NOT LESS THAN SO FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY)

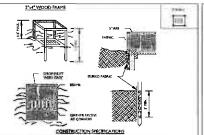
- 3. THICKNESS NOT LESS THAN SIX (6) INCHES
- 4. WIDTH A TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO 5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE

6. SURFACE WATER - ALL SURFACE WATER PLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE IF PIPENG IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.

7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR PLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SMILLED, DROPPED, WASHED ON TRACKED ONTO PUBLIC RIGHTS OF WAY MUST BE REMOVED IMMEDIATELY.

I WHEN WASHING IS REQUIRED. IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE. 7 PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.





. FILTER FABRIC SHALL HAVE AN ROS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.

2. GUT FABRIC FROM A CONTÍNUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE

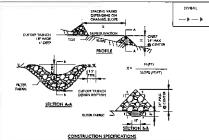
3. STAKE MATERIALS WILL BE STANDARD 2" X 4" WOOD OR EQUIVALENT, METAL WITH A

4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM IS INCHES DEED SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER PABLIC FOR SUPPORT

5. FABRIC SHALL BE SHBEDDED I FOOT MINIMUM BRLOW GROUND AND BACKFILLED, IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME

6. A 2" X 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABLITY, MAXIMUM DRAINAGE AREA I ACRE





I. STONE WILL BE PLACED ON A FILTER FASRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.

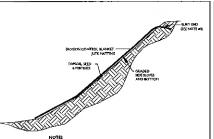
2. SET SPACING OF CHECK DAYS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE LIPSTREAM DAM. 3. EXTEND THE STONE A MINIMUM OF I.S REET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.

4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.

5. ENSURE THAT CHANNEL APPLIETENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE 6. MAXIMUN DRAINAGE AREA 1 ACRES.







- NOTICE

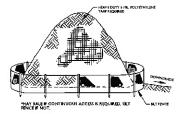
 1. PREPARE SOIL MEPORE INSTALLING BLANKETS, INCLUDING

 ARRICATION OF FOTOSOIL FENTELERS AND SEED.

 2. ROLL BARNKETS IN DRECTION OF WATER FLOW

 3. REPER TO HANUPACTURES SPECIFICATIONS FOR BLANKET
 INSTALLATION, ANCHORING AND STAUMING REQUIREMENTS.

SLOPE STABILIZATION DETAIL



- ICEE NOT.

 NOTE:

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 I AREA CHOISIN FOR STOCKPENS SHALL BE DRY AND STABLE

 SHANDHING BOY OF STOCKPENS SHALL BE DRY AND STABLE BY

 SHANDHOED WITH SIT FENCING AND STABLEDD SEED AND MULCIN

 OR FITH HIGH. MAYERAS SHALL FOR BE USED IN RACE OF SHIT FENCING

 OF FITH HIGH. MAYERAS SHALL FOR SHALL BE SHALL FROM

 SHALL BOY THE SHALL NOT SKIED THE LIMITATION OF

 DRAMAGE ARM FERS. IT SIDES.

 INTO LLEAT TINCE AND CONTINUES A MINIMUM OF 2-4" FROM

 THE TIES OF THE STOCKPE.

SOIL STOCKPILE DETAIL
SCALE NTS.

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 CERTIFICATIONS/PERMITS THAT PERTAINS TO THIS PROJECT.
- EROSION CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH NYSDEC REQUIREMENTS, NYSDOT REQUIREMENTS AND DETAILS PROVIDED ON THE PLANS AND AS PER THE HABURGAUTURGS REQUIREMENTS.
- ALL EROSION AND SEDIMENT CONTROLS NECESSARY SHALL BE INSTALLED PRIOR TO WORK IN THAT AREA. EROSION AND SEDIMENT CONTROLS MUST BE CHECK A MINIBUM OF EVERY? CALENDARD ADVS., ANY MARTITRANICE INCESSARY SHOULD BE FERENOMED WITHIN 4H HOUSE.
- CHECK DAMS SHOULD BE CHECKED AFFER EVERY STORM FOR DAMAGE, OVERTOPPING OR CLOGGING WITH SEDIMENT. REPAIRS OR HAINTENANCE SHOULD TAKE PLACE AS SOON AS DETERIORATION IS NOTICED
- CONSTRUCTION ENTRANCE TRACKING PADS SHOULD BE CHECKED DAILY FOR CLOGGING OR BUILTUP AND MAINTEINED TO KEEP FROM TRACKING SEDMENT ONTO THE TRAVEL LANES.
- ALL DEWATERING OR PUHRING OPERATIONS (IF NEEDED) REQUIRE DIRT BAGS, SLT SACKS, AND/OR TEMPORARY SEDIMENT CONTROL BARRIERS. ALL WATERS DISCHARGED SHALL BE CLEAN OF ALL SEDIMENT.
- ALL EROSION CONTROL MEASURES SHOULD BE CHECKED BY THE ENGINEER (OR INSPECTOR) TO INJURE PROPER PLACEMENT OF ALL FEATURES.
- 8. ALL STABILIZING AREAS SHALL PROVIDE THE FOLLOWING
 - A STABILIZED CONSTRUCTION ENTRANCE IS SILT FENGE

 - C. CATCH BASIN PROTECTION
 D. OFFSITE STORMWATER DISCHARGE
- SEDIMENT REMOVED FROM EROSION AND SEDIMENT CONTROL MEASURES WILL BE EXPORTED FROM THE SITE OR STOCKMIED AT CONSTRUCTION STAGING AREA FOR LATER USE

MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES:

PERHANENT AND TEMPORARY VEGETATION

INSPECT ALL AREAS THAT HAVE RECEIVED VEGETATION EVERY SEVEN DAYS. ALL, AREAS OATHAGED BY EROSION OR WHERE SEED HAS NOT ESTABLISHED SHALL BE REPAIRED AND RESETABLISHED MYMEDIATELY

STABILIZED CONSTRUCTION ENTRANCE

NOTES THE BIT MANGE AND SYRY LEGAL ONES, CARGO ON HID STONED IN MILLS AND AND STREET AND SALE AND STREET AND SALE AND SA TEMPORARY CONSTRUCTION ENTRANCE AS SOON AS THEY ARE NO LONGER NEEDED TO PROVIDE ACCESS TO THE SITE

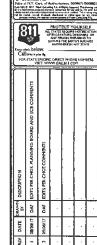
SHIT FENCE

INSPECT FOR DAHAGE EVENT SEVEN DAYS. HANE ALL REPAIRS IMPEDIATELY REMOVES SEDIMENT FROM THE UPSLOPE FACE OF THE ENCE SEPORE THACOUPLINETS TO A HEBITE EQUAL TO 10 THE HEBITE OF THE SPICE. FE FRIENE FARME TRAIN EXCENT TO DECONDED ON ANY WAY BECOMES INISPECTIVE, REPLACE THE AFFECTED SECTION OF FENCE BYHEDIATELY.

NUMECT SEDMENT CONTROL BAMBERS (BLT FENCE OR HAY BALE) AND VEGETATION FOR DAMAGE EVERY SIVEN DAYS. HAVE ALL REPAIRS MINDUNELY REPOVE SEDMENT ROUNT THE UNAQUE FEACE OF THE SEDMENT CONTROL BARRIER BONGE THE ACCUMULATE TO A HOBIT EQUAL TO JUT THE HIGHT OF THE SEDMENT CONTROL BARRIER. IF SEDMENT CONTROL BAMBER THASE, SEGIRE TO DECORROS, OR N. ANY WAY SECONES INSECTIVE, SEPLICE THE AFFECTED SECTION OF FEDERAL CONTROL BARNER MINEDIATELY, REVOCETATE DISTURBED AFFECT STABILIZED SOIL STOCK PILE. REMOVE THE SEDIMENT CONTROL BARRIER WHEN THE SOIL STOCK PILE HAS BEEN REMOVED.

DUST CONTROL

RISHET CHIESE DAME DEBTY [VIVII DAY). IF BOWNEAUT BOJION HAS OCCUPED DETWEN-TRAILCTURES ABRO OF TOME OF OTHER WITHAIL HAPPIAL HAPPIAL DETAILED IN THAI PORTION OF THE CHANNER. DEBOWS ESDIMENT ACCUMULATED BANKS THE DAM AN REQUID TO ALLOW CHANNER TO DEBANGER HOUGHT HET DION CHECK DAM AND PRESENT LAND THE DEBIG CHOOS SECTION OF THE STRUCTURES. REPORT ECHECK DAM AND PRESENT LAND THE DEBIG CHOOS SECTION OF THE STRUCTURES. REPORT ECHECK DAM AS TO PAPERIAN. AND



BRETT D. REYNOLDS NEW YORK LICENSED PROPESSIONAL ENGINEER - LICENSE NUMBER 54906

PROJECT ROUTE DESIGN PLANS

othe Power Possibility Central Hudson

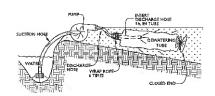
S-M LINE GAS REINFORCEMENT PROJECT TOWN OF CARMEL PUTNAM COUNTY, NY



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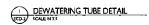
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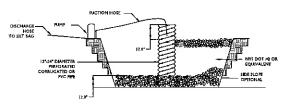
SOIL EROSION & SEDIMENT CONTROL PLAN



- NOTE:
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 ARACE DENVATERIOR THAS ON THE GROUND OR ON A RELATIVITY LEVEL. STABLIZED AREA
 IN MISS TO DECHARGE RIPE A MORRIUM OF SIT. MIDDE DEWATERING TUSE AND SECURE FOR
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 SEDUCED THE TOWN ART OF THE MIPP DECHARGET OR WHEN THE SEDIMENT HAS
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 ON HAND ON THE HITE THE PRINCES OF A DEWATERIAN OTHER IS TO COLLICET SEDIMENT
 CONTAINED IN THE DISCHARGED WATER, TO PREVENT THE SCOULE AND BROSION FROM
 WATER DESTRICA FEET AND VISCOUTT, OR DESIDS THE WATER OWNER ANDERS MEAN TO
 HIMMETE ENGINE AND THE WATER DRAINS AWAY, AND TO RATIAN OIL CONTAINED
 WHENCE ENGINEERS.

MAINTENANCE AND DISPOSAL
 REMOVE AND DISPOSE OF ACCUMULATED SEMINAT AWAY FROM WATERWAYS OR
DIVINON-MONTALLY SEMINITIM AMAS, OWN BOTH ENDS OF THE DEWATERING TUSE, HICK IN
 IN HILL CENTER, AND DUMP ACCUMULATED SEMINATION OUT OF BOTH ENDS, ALLOW TO
 DAY AND STORE FOR RESIDE, OR A DEMECTION OF PROPERTY.

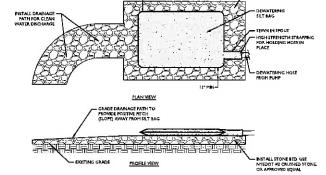




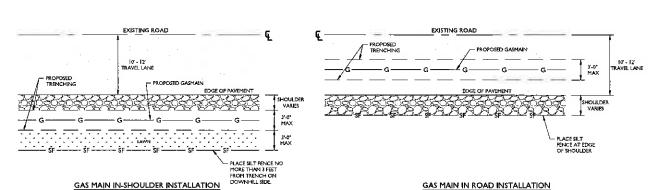
CONSTRUCTION SPECIFICATIONS

- I. FIT DIMENSIONS ARE OFTIONAL
- 2. THE STANDHEE SHOULD BE CONSTRUCTED BY PERFORATING A 12-24" DIAMETER CORRUGATED OR PVC PIPE.
- A BASE OF 2" AGGREGATE SHOULD BE MACED IN THE MT TO A DEFTH OF 12".
 AFTER INSTALLING THE STANDARD THE PIT SURROUNDING THE STANDARD. SHOULD BE BACKFILLED WITH 2" AGGREGATE.
- 4. THE STANDARE SHOULD EXTEND 12-18" ASOVE THE UP OF THE MT.
- IF DISCHARGE WILL BE PUMPED DIRECTLY TO A STORM DRAINAGE SYSTEM.
 THE STANDPPE SHOULD BE WRAPPED WITH FILTERCLOTH ABFORE INSTALLATION IF DESIRED, IN"- IN" HARDWARE CLOTH MAY BE PLACED AROUND THE STANDPPE. PRIOR TO ATTACHING THE FILTERCLOTH





SEDIMENT BAG DETAIL



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.



FOR STATE SPECIFIC DIRECT PHONE NUMBERS
YOUR WYON GALLETT COM PROJECT ROUTE DESIGN PLANS FOR

NSTALL STONE BED USE NYSDOT #2 CRUSHED STONE,

- PROPOSED GAS LINE

BRETT D. REYNOLDS

Central Hudson

S - M LINE GAS REINFORCEMENT PROJECT

TOWN OF CARMEL PUTNAM COUNTY, NY



ALBANY OFFICE

E DRAWNEY CHECKED 220/17 DAF 8DR

SOIL EROSION & SEDIMENT CONTROL PLAN

STABILIZED STAGING AREA INSTALLATION NOTES:

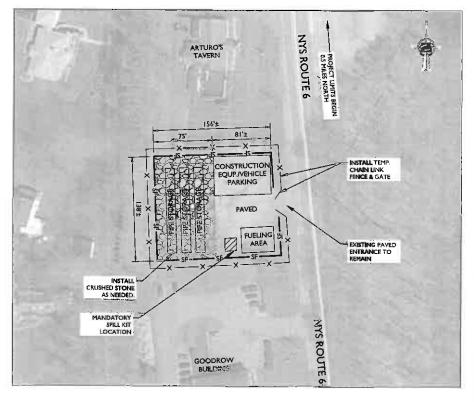
- I. CONTRACTOR TO COORDINATE ARRANGEMENT OF EQUIPMENT, CONSTRUCTION MATERIALS, AND FUELING AREAS WITHIN STAGING AREA WITH CENTRAL HUDSON BEFORE START OF CONSTRUCTION
- 2. STAGING AREA SHALL BE INSTALLED PRIOR TO OTHER OPERATIONS ON THE SITE.
- ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING, BUT NOT LIMITED TO SILT FENCE, STABILIZATION, DUST CONTROL AND CONSTRUCTION FENCING.
- 4. ALL CONSTRUCTION VEHICLES AND EQUIPMENT SHALL BE PLACED ON PAYED SURFACES TO PREVENT ANY POTENTIALLY LEAKING FLUIDS/OILS/GAS FROM SEEPING INTO SOILS. IF EQUIPMENT IS PLACED ON SOIL OR GRAYEL A LAYER OF POLY-LYNER SHALL BE PLACED ON GROUND FOR PROTECTION FROM FLUIDS/OILS/GAS LEAKS
- THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE AREA SHALL
 BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER
 APPROVED BY LOCAL JURISDICTION AND LOT OWNER.
- 6. STAGING AREA SHALL BE KEPT NEAT AND CLEAN AT ALL TIMES.

ON-SITE FUEL/OIL STORAGE NOTES:

- FUEL HANDLING AND STORAGE FACILITIES WILL COMPLY WITH APPLICABLE FEDERAL AND STATE REGULATIONS
- ABOVE-GROUND BULK STORAGE: WITH THE EXCEPTION OF MOBILE TANK TRUCKS, THESE UNITS WILL HAVE SECONDARY CONTAINMENT OR BE ADEQUATELY BERMED WITH IMPERVIOUS MATERIAL TO CONTAIN A POTENTIAL LOSS FROM COMPLETE TANK FAILURE.
- FUELS USED IN THE CONSTRUCTION PROCESS WILL BE STORED AT SPECIFIED EQUIPMENT STAGING AREAS.
 WHERE PRACTICAL, REFUELING WILL BE CONDUCTED AT THE STAGING AREAS.
- IF REFUELING ALONG THE ROW IS REQUIRED, FUEL WILL BE TRUCKED IN USING APPROPRIATE EQUIPMENT AND APPROPRIATE ENVIRONMENTAL PRECAUTIONS TAKEN AS OUTLINED BELOW:
 - A FUEL TANKS OF SUCH EQUIPMENT WILL BE INITIALLY FILLED IN AN UPLAND LOCATION GREATER THAN 100 FEET FROM WETLANDS OR STREAMS TO MINIMIZE THE AMOUNT OF REFUELING WITHIN THESE SENSITIVE AREAS.
 - B. ABSORBENT PADS OR PORTABLE BASINS WILL BE DEPLOYED UNDER THE REFUELING OPERATION. IN ADDITION, THE FUEL NOZZLE WILL BE WRAPPED AN ABSORBENT PAD AND THE NOZZLE WILL BE PLACED IN A SECONDARY CONTAINMENT VESSEL (E.G., BUCKET) WHEN MOVING THE NOZZLE FROM THE FUEL TRUCK TO THE EQUIPMENT TO BE REFUELED.
 - C. CREWS WILL HAVE SUFFICIENT SPILL CONTAINMENT EQUIPMENT ON HAND AT THE SECONDARY CONTAINMENT LOCATION TO PROVIDE PROMPT CONTROL AND CLEANUP IN THE EVENT OF A RELEASE
- 5. THE HANDLING, TRANSPORTATION, STORAGE AND DISPOSAL OF DIL, FUELS, USED DILS, AND (IF ANY) HAZARDOUS WASTES WILL BE CONDUCTED IN AN ENVIRONMENTALLY SAFE MANNER. ANY HAZARDOUS SUBSTANCES WILL BE TRANSPORTED, STORED, AND HANDLED AS RECOMMENDED BY THE SUPPLIERS AND/OR MANUFACTURERS AND IN COMPLIANCE WITH ALL APPLICABLE FEDERAL OR STATE REGULATIONS.
- 6. CONSTRUCTION STAGING AND LAY DOWN AREAS WILL HAVE AN ADEQUATE SUPPLY OF SUITABLE ABSORBENT MATERIAL AND ANY OTHER SUPPLIES AND EQUIPMENT NECESSARY TO IMMEDIATELY CLEAN-UP INADVERTENT WASTE OR FUEL SPILLS. SPILL KITS SHALL BE KEPT IN CONSTRUCTION VEHICLES AND AT STAGING AREAS WHERE EQUIPMENT IS STORED.

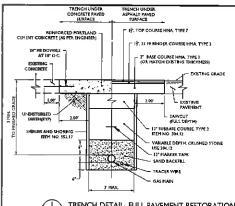
EQUIPMENT STORAGE:

I. UNLESS OTHERWISE AUTHORIZED BY BOTH CENTRAL HUDSON AND TOWN OF CARMEL, ALL EQUIPMENT SHALL BE STORED AT STAGING AREA, CONTRACTOR SHALL MOBILIZE AND DEMOBILIZE EQUIPMENT DAILY. NO EQUIPMENT OR MATERIAL, OTHER THAN TRAFFIC WORK ZONE SIGNAGE, SHALL BE LEFT ON ROAD SIDES OR IN WORK ZONES AT THE END OF EACH WORKDAY.

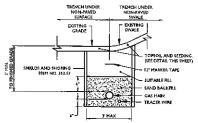


PROJECT STAGING AREA
AT 870 NYS ROUTE 6

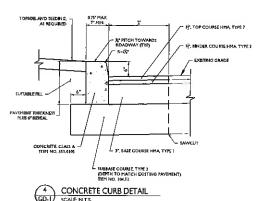
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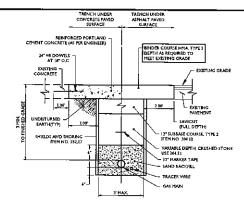


TRENCH DETAIL- FULL PAVEMENT RESTORATION SCALE: N.T.S.

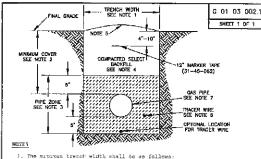


TRENCH DETAIL-NON-PAVED AREAS SCALE: N.T.S.





TRENCH DETAIL- PARTIAL RESTORATION



1. The minimum trench width shall be as follows

3" - 16" TRENCH WIDTH FIRE Q.D. + 12"

3" - 16" FIRE 0.2. - 12"

2. Mainimum depth of cover from final grade to top of pipe shall be as follows:

18 EMBTE 18 900 pp. 24"

Refer to G 21 31 001.0 for apecial cover requirements in cultivated indo or navigable materways and of 01 30 001.1 for shallow cover.

Uncoror depths may be required by the governing authority.

3. Sand padding is required in the place tor. Effect to G 01 03 005.6 for the definition of sand padding. It shall be thoroughly compacted in 12" lifts or as required by the governing authority.

4. Compacted melect bankfall may be or-mate material provided at contains no rocks or stones over 6" in diameter, roots, stupps, or connectuation debries. It shall be thoroughly compacted in 12" lifts or a required by the governing authority.

5. The backfalled tranch shall be crowned slightly to allow for future settlament.

settlement.

6. For plastic gipe, trader wire shall be it.stalled per S G2 C3 005.0 and G O2 O3 006.0.

7. In aroas where plastic pipe less than 8° in diameter is installed below the water table, an unopened 75 Db. bag of boncrete mix shall be plaused directly over the pipe severy 40 (set to prevent the pipe from floating up after installation. The bogs shall be beakfilled along with the principle.

ators with the pipe.

Mefer to 0 UP (1 UPT.) to determine the need for shoring or sloping.

Mefer to 0 UP (1 UPT.) to determine the need for shoring or sloping.

Mefer to 0 UP (1 UPT.) to determine below grade clearances.

In shorp tarrair, brench brashwar and erozaon control may be required. Consult with Cas 6 Meghanizel Degineering.

CENTRAL HUDSON GAS & ELECTRIC CORP. DATE 9/15 ISSUE 3 TRENCHING AND BACKFILL REQUIREMENTS DISTRIBUTION MAINS KER APP. LRC

> 5 TYPICAL PROJECT TRENCH DETAIL - CHGE SCALE: N.T.S.

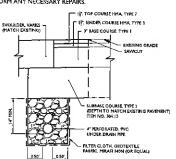
TRENCHING AND INSTALLATION NOTES:

THIS PROJECT REQUIRES THE PLACEMENT OF A PROPOSED GAS MAIN TO BE PLACED ALONGSIDE AND/OR UNDER THE ADJACENT STATE HIGHWAY JUNDER INTERSECTING ROADWAYS AND DRIVEWAYS). THE PROPOSED GAS LOCATION WILL BE WITHIN THE NYSDOT R.O.W. AND CONFORM TO ALL FEDERAL REGULATIONS GOVERNING GAS PIPE INSTALLATION (TITLE 49, PART 192). THE PROPOSED PIPE DESIGN CRITERIA FOR THIS PROJECT IS AS FOLLOWS:

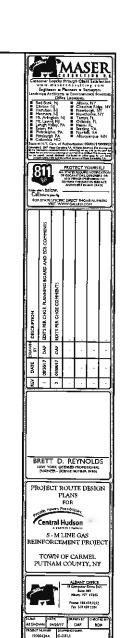
MEDIUM: NATURAL GAS OPER, PRESS: 120 PSIG PIPE: 10" STEEL

ALL GAS WORK SHALL BE PERFORMED TO CENTRAL HUDSON GAS AND ELECTRIC CORPORATION STANDARDS OPERATING AND MAINTENANCE PLAN AND GAS CONSTRUCTION. THE CONTRACTOR SHALL PERFORM ALL TESTING OF NEW GAS PIPING. INCLUDING INSTALLATION OF ANY NECESSARY TESTING PIECES UNDER THE DIRECTION OF A CENTRAL HUDSON GAS AND ELECTRIC CORPORATION REPRESENTATIVE.

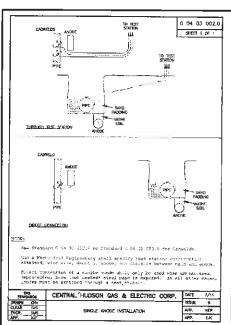
- ALL PROPOSED PIPES SHALL BE PLACED AT THE APPROPRIATE DEPTHS SHOWN ON THE GENERAL PLANS, DETAILS AND APPROVED BY THE HIGHWAY PERMIT, MINIMUM SEPARATION OF 1'-0" HORIZONTAL AND/OR 1'-0" VERTICAL FROM EXISTING UNDERGROUND UTILITIES (INCLUDING EXISTING STORMWATER CATCH BASINS, PIPES, ETC.) SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. ANY LOCATIONS NOT MEETING THESE CRITERIA SHALL BE APPROVED PRIOR TO INSTALLATION AND CLEARLY DOCUMENTED ON AS-BUILT DRAWINGS. WARNING TAPE AND LINE MARKERS SHALL BE INSTALLED AT ALL PIPE PLACEMENTS.
- ALL TRENCHING ACTIVITIES SHOULD BE BACKFILLED (OR STEEL PLATED WITH PINS AND EDGE RAMPING) AND TEMPORARILY STABILIZED AT THE END OF EACH WORK DAY.
- THE CONTRACTOR IS REQUIRED TO MAINTAIN ACCESS TO ALL PROPERTIES AT ALL TIMES. WORK SHALL BE SCHEDULED AND PROGRESSED TO ALLOW FOR EMERGENCY VEHICLE ACCESS AT ALL TIMES.
- ALL TRENCH DEPTHS, COMPACTION, AND BACKFILL MATERIALS SHALL BE AS NOTED IN TRENCH DETAILS. ALL BACKFILL MATERIALS SHALL CONFORM TO NYSDOT STANDARDS (AND AS DETAILED IN THIS PLAN SET) AND BE OBTAINED FROM APPROVED NYSDOT SOURCES. MATERIAL TICKETS ARE REQUIRED TO BE SUPPLIED TO CENTRAL HUDSON AT THE END OF CONSTRUCTION.
- ALL EXCAVATIONS REQUIRE A MEANS OF INGRESS AND EGRESS NO MORE THAN 25'-0" APART. LADDERS USED TO SATISFY THESES REQUIREMENTS MUST EXTEND A MINIMUM OF 42" ABOVE GRADE. EXCAVATIONS 5'-0" OR MORE IN DEPTH SHALL BE PROTECTED BY MEANS OF SHEETING AND SHORTING, BENCHING OR SLOPING ACCORDING TO OSHA REGULATIONS. ALL TRENCH EXCAVATION PROTECTION SYSTEMS SHALL MEET THE REQUIREMENTS OF OSHA REGULATIONS.
- THE CONTRACTOR MAY BE INSTRUCTED TO INSTALL TRENCH BREAKS ALONG THE GAS PIPE TRENCH ANYWHERE THE TRENCH EXCEEDS 5% GRADE TO MINIMIZE FLOW ALONG THE PIPELINE
- WHERE TRENCHING LIES WITHIN EXISTING SWALES, PROPER DEPTH SHALL BE MAINTAINED BELOW THE BOTTOM OF THE SWALE. THE CONTRACTOR IS REQUIRED TO MAINTAIN SWALE FLOW AT ALL TIMES IN A MANNER TO PRECLUDE FLOW FROM ENTERING ONTO THE TRAVEL LANE
- ANY DRAINAGE STRUCTURES OR PIPES DAMAGED IN THE COURSE OF CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER OR REGULATORY AGENCY.
- ALL UTILITIES ENCOUNTERED DURING TRENCHING OPERATIONS SHALL BE PROTECTED. MAINTAINED, SUPPORTED, AND SATISFACTORILY BACKFILLED ACCORDING TO THE UTILITY OWNERS REQUIREMENTS. SHOULD ANY UTILITY DAMAGED BY THE CONTRACTOR DURING THE COURSE OF PERFORMING WORK OPERATIONS, THE OWNER OF THE UTILITY SHALL BE NOTIFIED IMMEDIATELY TO OVERSEE OR EFFECT REPAIR. TRENCHING, PIPE PLACEMENT, AND BACKFILL OPERATIONS SHALL ALLOW FOR SAFE AREAS TO PERFORM ANY NECESSARY REPAIRS.



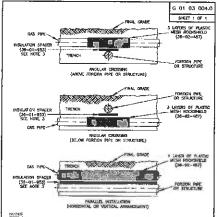
6 UNDERDRAIN REPLACEMENT DETAIL



GENERAL DETAILS (SHEET | OF 2)







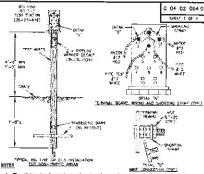
- All gas transmission and distribution major and requires shall be constructed with a plantames of not less than 12", Whenever practical, from Jay subsurface symptogram.
- 2. When 12^{n} of Gleanance is not practical, a minimum plearance of 4^{n} drall be maintained and the pupuline protected from damage an operated above.
- An Innuistron Spacer (36 01 953) shall be installed with steel pape to prevent also bridge with structure.

1			- 1
STANDANOS	CENTRAL HUDSON GAS & ELECTRIC CORP.	DATE	9/15
DRAWN FLIS		RSUE	4
CLEAR NFB	PROTECTION OF GAS PIPE FOR BELOW GRADE CLEARANCES 4" TO 12"	APP,	ÆK
APP CLED	DELLOW GROUP CLEADONIES 4 TO 12		LNC

NOTE:

I. IF EXISTING UTILITY PIPING IS FOUND IN POOR CONDITION ONCE EXPOSED, OR 12" MIN OF SEPARATION CANNOT BE MET, THE CONTRACTOR SHALL NOTIFY CENTRAL HUDSON AND THE MUNICIPALITY OWNING THE UTILITY. CONTRACTOR MAY BE REQUIRED TO REPAIR/REPLACE EXISTING UTILITY ON THE DIRECTION OF MUNICIPALITY AND CENTRAL HUDSON.



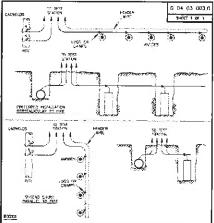


- Triangulation measurements shall be taken from known dield monuments, recorded on Form \$105, forcosion Control Test Seariem Record, and rowted to User & Estabanical Empineering Cathodic Empineer.
- 3. That wires shall be attached to terminel board as shown in Detail "A". Book the solid wires electwise around each textural. Tellow traces wires for nearby placent as mine can be termined on what terminals. Provide sufficient ercess wise to enable the terminel board to be reported.
- 4. Restring straps shall be installed on terminals on the outside of mines requel the and of the helt. All wires shall be tagged as shown in Betail "B" per Stendard 6 of 00 001.0.
- Nastall but pipeline marker details (36-30-524) on apposite sides of the test station just below the cap. Install the details facing up and down the light-of-439 or codemy.

CAS STANDARDS		CENTRAL HUDSON GAS & ELECTRIC CORP.	DATE	10/15
	L-14		75SUE	3
	e.s	CATHODIST PROTECTION TEST STATION APP. APP.		#CF
ENGR. I	DMS	ABOVE GRADE INSTALLATION APP. 197		

8 TEST STATION DETAIL

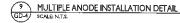
SCALE: N.T.S.

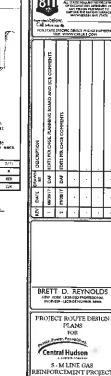


See Standard 6 84 81 602,0 or Standard 8 64 91 909.0 for Eudwelds. Gos a Mechanical Engineering shall specify cast stactom construction Standard, wire site, doubt of anodes, distance between moin and first mode, and distance between subsequent modes.

It header is \$12 ANS, use Tracer Wire Lug (36-70-597) to splice smade leads to header cable. For larger orizes, use Bearing Triags and wrep each splice with three [3] layers of electrical cape (31-69-051).

GAS STANDARDS	CENTRAL HUDSON GAS & ELECTRIC CORP.	DATE	7244		
ORAMIN CHA	1590C				
CLEAR R.*	MULTIPLE VERTICAL ANQUE INSTALLATION APP STR				
APP E	APP, COX				





BRETT D. REYNOLDS NEW YORK LICENSED PROFESSIONAL PICKNESS - LICENSE NUMBER SANS

PROJECT ROUTE DESIGN

TOWN OF CARMEL PUTNAM COUNTY, NY



GENERAL DETAILS (SHEET 2 OF 2)

FRAC-OUT CONTINGENCY PLAN (FCP):

1.0 INTRODUCTION AND PURPOSE

DIRECTIONAL BORE OPERATIONS HAVE A POTENTIAL TO RELEASE DRILLING FLUIDS INTO THE SURFACE ENVIRONMENT THROUGH FRAC-GUTS. (A FRAC-OUT IS THE CONDITION WHERE DRILLING MUD IS RELEASED THROUGH FRACTURED SUBSURFACE SOIL AND TRAVELS TOWARD THE SURFACE.) BECAUSE DRILLING MUDS CONSIST LARGELY OF A BENTONITE CLAY-WATER MIXTURE, THEY ARE NOT CLASSIFIED AS TOXICOR HAZARDOUS SUBSTANCES.

WHILE DRILLING FLUID SEPAGE ASSOCIATED WITH A FRAC-OUT IS MOST LIKELY TO OCCUR IN EAR THE BORE ENTRY AND EXIT POINTS WHERE THE DRILL HEAD IS SHALLOW, FRAC-OUTS CAN OCCUR IN ANY LOCATION ALONG A DIRECTIONAL BORE. THIS FRAC-OUT CONTINGENCY PLAN (FCP) ESTABLISHED OPERATIONAL PROCEDURES. PREVENTION, CONTAINMENT, AND CLEAN-UP OF FRAC-OUTS ASSOCIATED WITH THE PROPOSED DIRECTIONAL DRILLING PROJECT. CONTRACTOR FOR THE HORIZONTAL DIRECTIONAL DIRECTIONAL DRILLING PROJECT. CONTRACTOR FOR THE HORIZONTAL DIRECTIONAL DRILLING PROJECT.

THE SPECIFIC OBJECTIVES OF THIS PLAN ARE TO:

- I. MINIMIZE THE POTENTIAL FOR A FRAC-OUT ASSOCIATED WITH DIRECTIONAL DRILLING ACTIVITIES;
- 2. PROMIDE FOR THE TIMELY DETECTION OF FRAC-OUTS-
- 3. PROTECT THE ENVIRONMENTALLY SENSITIVE RIVERBED AND ASSOCIATED RIPARIAN VEGETATION:
- 4. ENSURE THE ORGANIZED, TIMELY, AND "MINIMUM-IMPACT" RESPONSE IN THE EVENT OF A FRAC-OUT AND RELEASE OF DRILLING BENTONITE; AND
- ENSURE THAT ALL APPROPRIATE NOTIFICATIONS ARE MADE IMMEDIATELY TO THE SUPERVISORY SITE BNGINEER

2.0 DESCRIPTION OF WORK

IN THE EVENT OF A DROP IN THE DRILLING PRESSURE AND DRILLING FILID VOLUME VARIATIONS OR OTHER EVENDENCE OF A FRACOULT DRILLING, OPERATIONS WILL BE MALTED BY THE DRILL GOPERATORS WILL BE MALTED BY THE DRILL GOPERATORS IMMEDIATELY. MANAGEMENT AND SARETY DEPARTMENT SHALL BE MOTHED IMMEDIATELY OF ANY SHILLS AND SHALL BE CONSULTED A STRAW BALES. SHALL ALSO BE ON-SITE PRIOR TO AND DURING ALL OPERATIONS. THE SITE SUPERVISOR WILL BE PREDICATED AND SHALL BE CONSULTED AS STRAW BALES. SHALL ALSO BE ON-SITE PRIOR TO AND DURING ALL OPERATIONS. THE SITE SUPERVISOR WILL BE IMPRODUCTED AND THE DIST. OF THE SITE SUPERVISOR WILL CONDUCT AN EVALUATION OF THE SITUATION AND DIRECT RECOMMENDED MITIGATION ACTIONS. BASED ON THE FOLLOWING QUIDELINES.

- a. IF THE FRAC-OUT IS MINOR, EASILY CONTAINED, HAS NOT REACHED THE SURFACE AND IS NOT THREATENING SENSITIVE RESOURCES, DRILLING OPERATION MAY RESUME AFTER USE OF A LEAK STOPPING COMPOUND (DIAMOND SEALS OR EQUAL) OR REDIRECTION OF THE BORD.
- b. IF THE FRAC-OUT HAS REACHED THE SURFACE. ANY MATERIAL CONTAMINATED WITH BENTONITE SHALL BE REMOYED BY A VACUUM TRUCK AND PROPERLY DISPOSED OF, AS REQUIRED BY LAW. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE BENTONITE IS EITHER PROPERLY DISPOSED OF AT AN APPROVED DISPOSAL FACILITY OR PROPERLY RECYCLED IN AN APPROVED HANNER.

3.0 SITE SUPERVISOR / FOREMEN RESPONSIBILITIES

THE SITE SUPERVISOR/FOREMEN IS FAMILIAR WITH ALL ASPECTS OF THE DRILLING ACTIVITY, THE CONTENTS OF THIS FRAC-OUT CONTINGENCY PLAN AND THE CONDITIONS OF APPROVAL UNDER WHICH THE ACTIVITY IS PERMITTED TO TAKE PLACE. THE SITE SUPERVISOR/FOREMEN HAS THE AUTHORITY TO STOP WORK AND COMMIT THE RESOURCES (PERSONNEL AND EQUIPMENT) NECESSARY TO IMPLEMENT THIS PLAN.

4.0 EQUIPMENT

THE SITE SUPERVISOR/FOREMEN WILL ENSURE THAT:

- a. ALL EQUIPMENT AND VEHICLES WILL BE MAINTAINED DAILY TO PREVENT LEAKS OF HAZARDOUS MATERIALS:
- b. SPILL KITS AND SPILL CONTAINMENT MATERIALS WILL BE AVAILABLE ON-SITE AT ALL TIMES AND THAT THE EQUIPMENT IS IN GOOD WORKING ORDER; AND
- c. EQUIPMENT REQUIRED TO CONTAIN AND CLEAN-UP A FRAC-OUT RELEASE WILL EITHER BE AVAILABLE AT THE WORK SITE OR READILY AVAILABLE AT AN OFF-SITE LOCATION WITHIN IS-MINUTES OF THE BORE SITE.

5.0 DRILLING PROCEDURES

THE FOLLOWING PROCEDURS SHALL BE FOLLOWED EACH DAY PRIOR TO THE START OF WORK. THE FRAC-OUT CONTINGENCY PLAN SHALL BE AVAILABLE ON-SITE DURING ALL CONSTRUCTION. THE SITE SUPERVISION/FOREMEN SHALL BE ON-SITE AT ANY TIME THAT DRILLING IS OCCURRING OR IS PLANNED TO OCCUR. THE SITE SUPERVISION/FOREMEN SHALL ENSURE THAT A JOB BRIEFING MEETING IS HELD AT THE START OF EACH DAY OF DRILLING TO REVIEW THE APPROPRIATE PROCEDURES TO BE FOLLOWED IN CASE OF A FRACCOUT. QUESTIONS SHALL BE ANSWERED AND CLARIFICATION GIVEN ON ANY POINT OWNER WHICH THE DRILLING CREW OR ON THE PROCEDURES AS CONCERNS.

EXIT AND ENTRY PTS SHALL BE ENCLOSED BY SILT FENCES AND STRAW. A VACUUM TRUCK SHALL BE READLY AVAILABLE ON-SITE PRIOR TO AND DURING ALL DRILLING OPERATIONS. CONTAINENT MATERIALS (STRAW). SILT FENCING, SAND BAGS, FRAC-OUT SPILL KITS, ETC.) SHALL BE STAGED ON-SITE AT LOCATION WHERE THEY ARE READILY AVAILABLE AND EASILY MOBILIZED FOR IMMEDIATE USE IN THE VENT OF AN ACCIDENTAL RELEASE OF DRILLING MUD (FRAC-OUT). IF NECESSAY, BARRIERS (STRAW BALES OR SEDIMENTATION FENCES) BETWEEN THE BORE STREAM AND THE EDGE OF THE WATER

SOURCE SHALL BE CONSTRUCTED PRIOR TO THE DRILLING TO PREVENT RELEASED BENTONITE MATERIAL FROM REACHING THE WATER

ONCE THE DRILL RIG IS IN PLACE AND DRILLING BEGINS. THE DRILL OPERATOR SHALL STOP WORK WHENEVER THE PRESSURE IN THE DRILL RIG DROPS OR THERE IS A LACK OF RETURNS IN THE ENTERANCE PIT. AT THIS TIME. THE SITE SUPERVISOR/FOREMEN SHALL BE INFORMED OF THE POTENTIAL FRACOUT. THE SITE SUPERVISOR/FOREMEN AND THE DRILL RIG OPERATOR(S) SHALL WORK TO COORDINATE THE LIKELY LOCATION OF THE FRACOUT. THE LOCATION OF THE FRACOUT SHALL BE RECORDED AND NOTES MADE ON THE LOCATION AND MEASURES TAKEN TO ADDRESS THE CONCERN. THE FOLLOWING SUBSECTIONS SHALL BE ADHERED TO WHEN ADDRESSING A FRACOUT SITUATION.

WATER CONTAINING MUD. SILT, BENTONITE, OR OTHER POLLUTANTS FROM EQUIPMENT WASHING OR OTHER ACTIVITIES SHALL NOT BE ALLOWED TO ENTER A LAKE, FLOWING STREAM OR OTHER WATER SOURCE. THE BENTONITE USED IN THE DRILLING PROCESS SHALL BE EITHER DISPOSED OF AT AN APPROVED DISPOSAL FACILITY OR RECYCLED IN AN APPROVED MANNER. OTHER CONSTRUCTION MATERIALS AND WASTES SHALL BE RECYCLED OR DISPOSED OF AS APPROPRIATE.

5.1 VAC-TRUCK

A VACUUM TRUCK SHALL BE STAGED AT A LOCATION FROM WHICH IT CAN BE MOBILIZED AND RELOCATED SO THAT ANY PLACE ALONG THE DRILL SHOT CAN BE REACHED BY THE APPARATUS WITHIN 10 MINUTES OF A FRAC-OUT.

5.2 FIELD RESPONSE TO FRAC-OUT OCCURRENCE

THE RESPONSE OF THE FIELD CREW TO A FRAC-OUT RELEASE SHALL BE IMMEDIATE AND IN ACCORDANCE WITH PROCEDURES IDENTIFIED IN THIS PLAN. ALL APPROPRIATE EMERGENCY ACTIONS THAT DO NOT POSE ADDITIONAL THREATS TO SENSITIVE RESOURCES WILL BE TAKEN AS FOLLOWS:

- a. DIRECTIONAL BORING WILL STOP IMMEDIATELY.
- b. THE BORE STEM WILL BE PULLED BACK TO RELIEVE PRESSURE ON THE FRAC-OUT.
- c. THE SITE SUPERVISOR/FOREMEN WILL BE NOTIFIED TO ENSURE THAT MANAGEMENT AND THE SAFETY DEPARTMENT IS NOTIFIED, ADEQUATE RESPONSE ACTIONS ARE TAKEN AND NOTIFICATIONS MADE.
- d. THE SITE SUPERVISOR/FOREMEN SHALL EVALUATE THE SITUATION AND RECOMMEND THE TYPE AND LEVEL OF RESPONSE WARRANTED INCLUDING THE LEVEL OF NOTIFICATION REQUIRED.
- e. IF THE FRAC-OUT IS MINOR, EASILY CONTAINED, HAS NOT REACHED THE SURFACE AND IS NOT THREATENING SENSITIVE RESOURCES, A LEAK STOPPING COMPOUND SHALL BE USED TO BLOCK THE FRAC-OUT. IF THE USE OF LEAK STOPPING COMPOUND IS NOT FULLY SUCCESSFUL THE BORE STEM SHALL BE REDIRECTED TO A NEW LOCATION ALONG THE DESIRED DRILL PATH WHERE THE FRAC-OUT HAS NOT OCCURRED.
- f. IF THE FRAC-OUT HAS REACHED THE SURFACE, ANY MATERIAL CONTAMINATED WITH BENTONITE SHALL BE CONTAINED. A DIKE OR BERM MAY BE CONSTRUCTED AROUND THE FRAC-OUT TO ENTRAP RELEASED DRILLING FLUID IF NECESSARY. CLEAN SAND SHALL BE PLACED AND THE AREA RETURNED TO PRE-PROJECT CONTOURS.
- E, IF A FRAC-OUT OCCURS, REACHES THE SURFACE AND BECOMES WIDESPREAD, THE SITE SUPERVISOR/FOREIGN SHALL AUTHORIZE A READILY ACCESSIBLE VACUUM TRUCK AND BULLDOZER STORED OFFSITE TO BE MOBILIZED. THE VACUUM TRUCK MAY BE POSITIONED AT EITHER END OF THE LINE OF THE DRILL SO THAT THE FRAC-OUT CAN BE REACHED BY CREWS ON FOOT OR MAY BE PULLED BY A BULLDOZER SO THAT CONTAMINATED SOILS CAN BE VACUUMED.

5.3 RESPONSE CLOSE-OUT PROCEDURES

WHEN THE RELEASE HAS BEEN CONTAINED AND CLEANED UP, RESPONSE CLOSE-OUT ACTIVITIES WILL BE CONDUCTED AT THE DIRECTION OF THE SITE SUPERVISOR/FOREMEN AND SHALL INCLUDE THE FOLLOWING:

- a. THE RECOVERED DRILLING FLUID WILL WITHER BE RECYCLED OR HAULED TO AN APPROVED FACILITY FOR DISPOSAL. NO RECOVERED DRILLING FLUIDS WILL BE DISCHARGED INTO STREAMS, STORM DRAIN OR ANY OTHER WATER SOURCE.
- ALL FRAC-OUT EXCAYATION AND CLEAN-UP SITES WILL BE RETURNED TO PRE-PROJECT CONTOURS USING CLEAN FILL AS NECESSARY; AND
- c. ALL CONTAINMENT MEASURES (FIBER ROLLS, STRAW BALES, ETC.) WILL BE REMOVED UNLESS OTHERWISE SPECIFIED BY THE SITE SUPERVISOR/FOREMEN.

5.4 CONSTRUCTION RE-START

FOR SMALL RELEASES NOT REQUIRING EXTERNAL NOTIFICATION, DRILLING MAY CONTINUE IF 100 PERCENT CONTAINNENT IS ACHIEVED THROUGH THE USE OF A LEAK STOPPING COMPOUND OR REDIRECTION OF THE BORE AND THE CLEAN-UP CREW REMAINS AT THE FRAC-OUT LOCATION THROUGHOUT THE CONSTRUCTION PERIOD.

5.5 BORE ABANDONMENT

ABANDONMENT OF THE BORE WILL ONLY BE REQUIRED WHEN ALL EFFORTS TO CONTROL THE FRAC-OUT WITHIN THE EXISTING DIRECTIONAL BORE HAVE FAILED.

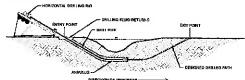
5.6 NOTIFICATION

IN THE EVENT OF A FRAC-OUT, THE SITE SUPERVISOR MUST NOTIFY THE SITE INSPECTION ENGINEER AND THE GENERAL CONTRACTOR SUPERVISOR FOREMAN.

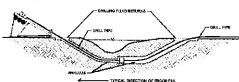
.0 PROJECT COMPLETION AND CLEAN-UP

- ALL MATERIALS AND ANY RUBBISH-CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE CONSTRUCTION ZONE AT THE END OF EACH WORK DAY.
- b. SUMP PITS AT BORE ENTRY AND EXITS WILL BE FILLED AND RETURNED TO NATURAL GRADE.

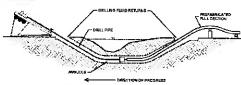
PILOT HOLE



PREREAMING



PULLBACK



B DIRECTIONAL BORE DETAIL GD-2 SCALE: N.T.S.

HORIZONTAL DIRECTIONAL DRILLING NOTES

- CONTRACTOR SHALL BE FAMILIAR WITH THE WORK AREA AND THE REQUIREMENTS OF THE DRILLING PATH.
- 2 CONTRACTOR SHALL MONITOR AND RECORD THE PIPE ALIGNMENT AND DEPTH READINGS ALONG THE DRILL PATH.
- CONTRACTOR SHALL MAINTAIN DRILLING FLUID CIRCULATION THROUGHOUT THE DRECTIONAL DRILLING PROCESS. ALSO SHALL MOINTOR FLUID PRESSURE AND LENGTH OF BORE FOR ANY "FRACK-OUTS" OF DRILLING FLUID. CONTRACTOR SHALL SUBMIT FRACK-OUT PLAN FOR REVIEW PRIOR TO PROCEEDING.
- CONTRACTOR SHALL PLAN THEIR REAMING AND PULLBACK OPERATIONS TO ENSURE THAT, ONCE STARTED THEY CAN BE COMPLETED WITHOUT STOPPING AND WITHIN THE WORK HOURS.
- CONTRACTOR SHALL TAKE PRECAUTIONS TO PREVENT OIL AND DRILLING FLUID SPILLS USING ENVIRONMENTALLY FRIENDLY MATS AND OTHER ACCEPTABLE METHODS. EXCESS ERILLING FLUID SHALL BE CONFINED IN A CONTRINMENT PT UNITL RECYCLED
- CONTRACTOR TO ENSURE THAT ACCEPTABLE NOISE LEVELS ARE NOT EXCEEDED DURING THE DRILLING AND PULLBACK OPERATIONS.
- CONTRACTOR TO USE BMPS TO INSURE SAFETY AND PROTECTION ON THE JOB SITE. REFER TO HORIZONTAL DIRECTION DRILLING PROCEDURES DEVELOPED BY THE NASTT HDD CONSORTHUM, 2004, 2001 FOR FURTHER DETAILS.
- CONTRACTOR TO ENSURE THAT TENSILE LOADS EXERTED ON PIPING DO NOT EXCEED SAFE LEVELS SPECIFIED BY THE DESIGN ENGINEER.
- SENDING AND RECEIVING PITS SHALL BE LOCATED IN UNPAVED AREAS, UNLESS BOUNDARY RESTRAINTS DEEM OTHERWISE.
- 10 ALL OTHER UTILITIES, RUNNING PARALLEL (OR PERPENDICULAR) TO THE DIRECTIONAL DRILLING MUST BE LOCATED VISIBLY PRIOR TO THE START OF THE DRILLING.
- 11. CONSTRUCTION DRAWNICS, SHOWING THE PROPOSED NETHOD AND PROCEDURE OF TRENCHLESS INSTALLATION, CONSTRUCTION OF ENTRANCE AND EXIT MTS, AND SCHEDULE OF ACTIVITIES REQUIRE TO PERSON ALL TRENCHLESS INSTALLATIONS INDICATED IN THE CONTRACT DOCUMENTS SHALL BE SUBMITTED TO THE ENGINEER POR APPROVAL BEFORE WORK ON THE TRENCHLESS INSTALLATION OPERATIONS IS STARTED. THE CONTRACT SHALL REFRIENCE INSIDOT STANDARD SPECIFICATIONS SECTION 450. TRENCHLESS INSTALLATION OPERATIONS IS STARTED. THE CONTRACT SHALL REFRIENCE INSIDOT STANDARD SPECIFICATIONS SECTION 450. TRENCHLESS INSTALLATION OF CASING IF REQUIRED.
- 12. PER THE "REQUIREMENTS FOR THE DESIGN AND CONSTRUCTION OF UNDERGROUND UTILITY INSTALLATIONS WITHIN THE STATS HIGHWAY RIGHT-OF-WAY" CASING PIPE (IF REQUIRED) SHALL MEET THE FOLLOWING SPECIFICATIONS REQUIRENTS: STEEL PIPE: ACTH 193, GRADE B (OR EQUAL), 35,000 PB ININ, 19LD STRENGTH
- APPROVAL OF CONSTRUCTION DRAWINGS SHALL NOT RELIEVE THE CONTRACTORS RESPONSIBILITY YO PERFORM THE WORK WITHOUT DAMAGE TO EXISTING FACILITIES.



BRETT D. REYNOLDS

NEW YORK EIGENSTO PROFESSIONAL
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TOWN OF CARMEL PUTNAM COUNTY, NY



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HDD DETAILS & NOTES



Site Planning
Civil Engineering
Landscape Architecture
Land Surveying
Transportation Engineering

Environmental Studies Entitlements Construction Services 3D Visualization Laser Scanning

September 14, 2017

Chairman Harold Gary and Members of the Planning Board Town of Carmel Planning Board 60 McAlpin Avenue Mahopac, New York 10541

RE: JMC Project 17155
Easter Seals New York
97 Old Route 6
Town of Carmel, NY

Dear Chairman Gary and Members of the Board:

On behalf of Easter Seals New York c/o Fedcap Rehabilitation Services, Inc, we are pleased to submit the following documents in support of their application for Amended Site Plan Approval for the addition of an outdoor play area and parking modifications:

- 1. Town of Carmel Site Plan Application (11 copies)
- 2. SEQR Environmental Assessment Form (11 copies)
- 3. JMC Drawings (5 copies):

<u>Dwg. No</u> .	<u>Title</u>	Rev. #/Date
C-010	"Layout Plan"	09/13/2017
C-020	"Grading, Utilities and Erosion Control Plan"	09/13/2017
C-900	"Construction Details"	09/13/2017
C-910	"Construction Details"	09/13/2017

- 4. CD containing the electronic files of the submission
- 5. Disclosure Statement (2 copies)
- 6. Site Plan Completeness Certification Form (1) copies)
- 7. Property Deed (2 copies)
- 8. Easements covenants and restrictions (2 copies)
- 9. Fed Rehabilitation Services Inc. check number 2362 in the amount of \$3,000.00 for the fee for an Amendment to a Previous Approved Site Plan

JMC Planning Engineering Landscape Architecture & Land Surveying, PLLC JMC Site Development Consultants, LLC

The project involves reoccupying a vacant portion of the existing building with a day-care center for Easter Seals of New York. There are proposed internal renovations to the building to change it from its previous use which was an adult learning center for disabled adults to a day-care center for small children with disabilities. As part of the requirements for a day-care center, the project proposes the construction of an outdoor play area to be surrounded by fencing. The area will be lawn and asphalt surface. The location of the proposed outdoor play area has been indicated by the property owner and will be within the existing lawn area in the rear of the property. Due to the topography, an accessible ramp with hand rails is proposed to provide access from the existing parking area to the play area. A striped pedestrian safe access route is proposed from the outdoor play area to the rear of the building. A striped designated drop-off/pick-up area for a bus and a sign are shown behind the building.

The current property differs from the Site Plan approved by the Planning Board in 1998 in that there is an additional parking area. The enclosed plans also show the current surveyed conditions. Minor modifications are required to the existing striping to demonstrate the parking meets the zoning requirements for aisle widths.

We trust the enclosed and above are sufficient for your review and look forward to our discussion at the meeting on September 27th. If you have any questions or require any additional information, please contact our office. Thank you for your consideration.

Sincerely,

Stephen Spina, PE Project Manager

cc: Chief of Carmel Fire Department, w/enc.

Mr. Pat Cleary, AICP, PP Ms. Marianne Gribbon

Mr. Jay Feiertag

Darius Chafizadeh, Esq.

Mr. Kevin Dwyer

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SITE PLAN APPLICATION INSTRUCTIONS



The Town of Carmel Planning Board meetings are held twice a month, on the second and fourth Wednesday's, at 7:00 PM at Carmel Town Hall, 60 McAlpin Avenue, Carmel

The submission deadline is 10 days prior to the Planning Board meeting. New site plan applications that have been deemed complete will be placed on the agenda in the order they are received.

No application will be placed on the agenda that is incomplete

Pre-Submission:

Prior to the formal submission of the site plan, a pre-submission conference may be requested by the applicant to be conducted with representatives from the Town, which may include the Town Planner, Town Engineer, Director of Code Enforcement and/or the Planning Board Attorney. This conference will serve to educate the applicant on the process he/she must follow, clarify the information required to submit a complete site plan application, and to highlight any specific areas of concern. You may arrange a presubmission conference through the Planning Board Secretary at (845) 628-1500 extension 190.

Submission Requirements:

At least 10 days prior to the Planning Board meeting, the site plan application shall be submitted to the Planning Board Secretary as follows:



SITE PLAN APPLICATION



Per Town of Carmel Code - Section 156 - Zoning

No.633 Street: Third Avenue, 6th Floor Town: New York State: NYZip: 10017 Individual/ Firm Responsible for Preparing Site Phone #: 914 683-1200 Email:		TION INFORMATION	
Site Address: No. 97 Street: Old Route 6 Hamlet. Carmel Property Location: (Identity landmarks, distance from intersections, etc.) Approximately 130 Feet Northwest of Old Route 6's intersection with Route 6 Town of Carmel Tax Map Designation: Section 55.11 Block 1 Lot(s) 23.24, 25.8.27 Property Deed Recorded in County Clerk's Office Date 2/27/02 Liber 1579 Page 203 Existing Easements Relating to the Site No. Yes X Describe and attach copies: Temporary grading easements that have been terminated. Have Property Owners within a 500' Radius of the Site Been identified? Yes X No. Attached List to this Application Form Property Owner: Durkin Water Realty, LLC Owners Address: No. 120 Street: Fields Lane Applicant If different then owner): Sester Seals New York clo Fedap Rehab Services Applicant If different than owner): No. 633 Street: Third Avenue, 6th Floor Town: New York State:NYZip: 10017 Individual/ Firm Responsible for Preparing Site Harris Beach, PLLC Address: No. 445 Street.Hamilton Ave, Ste. 1206 Owners Address: MC. PLLC Owners Address: Phone #: 914 273 5225 Fax#: 914 273 2102 State: NYZip: 10601 Other Representatives: JMC. PLLC Owners Address: No. 120 Street: Bedford Road Town: Armonk State: NYZip: 10504 PROJECT DESCRIPTION Describe the project, proposed use and operation thereof: Interior renovation of suites 7 and 8 on Lot 25, as well as the construction of an exterior children's play area on Lot 27. Modifications to existing striping on Lots 24 and 25 to	Application Name:		
Property Cocation: (Identity landmarks, distance from intersections, etc.) Approximately 130 Feet Northwest of Old Route 6's intersection with Route 6 Town of Carmel Tax Map Designation: Section 55.11 Block 1 Lot(s) 23.24, 25.8.27 Property Deed Recorded in County Clerk's Office Date 2/27/02 Liber 1579 Page 203 Existing Easements Relating to the Site No Yes X Describe and attach copies: Temporary grading easements that have been terminated. Have Property Owners within a 500' Radius of the Site Been Identified? Yes X No Attached List to this Application Forum APPLICANT/OWNER INFORMATION Property Owner: Durkin Water Realty, LLC Property O		17-0012	09/14/2017
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comon to Town requirements. Striped cross walk and pick-up/drop-off area on Lot 25.	Interior renovation of suites 7 and 8 on Lot 2 children's play area on Lot 27. Modification	25, as well as the constr s to existing striping on l	ots 24 and 25 to
	conform to 10wn requirements. Striped cros	ss walk and pick-up/drop	o-off area on Lot 25.

TOWN OF CARMEL SITE PLAN APPLICATION

PROJECT INFORMATION						
Lot size: Acres: 5.55 Square Feet:241,557	Square footage of all existing structures (by floor): 20,900 gross floor area					
# of existing parking spaces: 89	# of proposed parking spaces: 82					
# of existing dwelling units: N/A	# of proposed dwelling units N/A					
Is the site served by the following public utili	ity infrastructure: *82 spaces to remain					
If yes to Sanitary Sewer answer the for	ate septic system(s) be installed? Sewer District					
*Existing sewer connection to remain. No nev						
▶ Does approval exist to	connect to sewer main? Yes: No: A/4					
▶ is this an in-district co	nnection? Out-of district connection?					
What is the total sewe	r capacity at time of application?					
For Town of Carmel Town Engineer	ed average and maximum daily flow					
► What is the sewer cap	aritu					
r renders sits somer sug	uorey					
■ Water Supply	Yes: 🖾 No: 🗆					
*Existing water connection to remain. No new	demand added,					
If Yes: Does approval exist to	connect to water main? Yes: \(\sigma \) No: \(\sigma \)					
P What is your anticipate	capacity at time of application?					
Storm Sewer	Yes: 🖾 No: 🗔					
	100.00 110.00					
 Electric Service 	Yes: ☑ No: □					
Gas Service	Yes: Ø No: □					
Telephone/Cable Lines Yes: ☑ No: □						
	For Town of Carmel Town Engineer					
Water Flows Not opplicated Rose Algert						
sewer Flows 9/9//	7					
1.11						
Town Engineer; Date						
What is the predominant soil type(s) on the	What is the approximate depth to water table?					
site?HSG C (HSG B in play area)	2 feet or greater					
Site slope categories: 15-25% 5.5 %	25-35% <u>6.6</u> % >35% 7.5 %					
	i.Y.) 20 Fill (C.Y.) 20					
Is Blasting Proposed Yes:	No: ☑ Unknown: □					
Is the site located in a designated Critical En-	vironmental Area? Yes: No: K					
Does a curb cut exist on the Are new curt	cuts proposed? What is the sight distance?					
site? Yes: ☑ No: ☐ Yes: ☐ No: ☑	I LeftRightN/A					
Is the site located within 500' of:						
• The boundary of an adjoining city, town or village Yes: ☐ No: ☒						
• The boundary of a state or county park, recreation area or road right-of-way Yes: No: No:						
A county drainage channel line.	Yes: ☐ No: ☒					
• The boundary of state or county owned land on which a building is located Yes: ☐ No: ☒						

TOWN OF CARMEL SITE PLAN APPLICATION

Is the site listed on the State or Federal Register of Historic Place (or substantially contiguous) Yes: □ No: ☒					
Is the site located in a designated floodplain?					
Yes: □ No: ☑					
Will the project require coverage under	the Current NYSDE	C Stormwater Regul	ations		
			Yes: ☐ No: ☒		
Will the project require coverage under	the Current NYCOF	P Stormwater Regul	atione		
		a distribution regul	ations.		
			Yes: ☐ No: 🗵		
Franch - its distant		V. 50 0 50			
Does the site disturb more than 5,000 s	ις π	Yes: □ No: 🗵			
Does the site disturb more than 1 acre		Yes: □ No: Xi			
BOCO THE SITE GISTARD HISTOCHIAN PAGE		res. Li No. El			
Does the site contain freshwater wetlan	nds?				
Yes: □ No: ☑					
Jurisdiction:					
NYSDEC: Town of Carm					
If present, the wetlands must be delineated	ed in the field by a W	'etland Professional, a	nd survey located on		
the Site Plan.	ala				
Are encroachments in regulated wetlar Does this application require a			s:□ No:⊠		
Conservation Board?	reterral to tile E	Environmental Yes:	D No: 🖸		
Does the site contain waterbodies, stre	ams or watercourse	s? Yes D No	: 🔯		
Are any encroachments, crossings or a	elterations proposed	l? Yes: □ No	: 🛛		
Is the site located adjacent to New York			1 🗆		
Is the project funded, partially or in total	al, by grants or loans	s from a public sourc	e?		
Yes: ☐ No: ☒					
Will municipal or private solid waste di	sposal be utilized?				
Public: ☐ Private: ☑		. 5			
Has this application been referred to the Fire Department? Submitted concurrently to Town of Carmel Fire Department No: □ No: □					
What is the estimated time of construction for the project?					
	non for the project?				
±1 - 2 months					
ZONING	COMPLIANCE INFO	RMATION			
Zoning Provision	Required	Existing	Proposed		
Lot Area	40,000	241,557	241,557		
Lot Coverage	30%	9	9		
Lot Width	200	1163	1163		
Lot Depth	200	352	352		
Front Yard	40	56	56		
Side Yard	25	.55	55		
Rear Yard	30	52	52		
Minimum Required Floor Area	5,000	20,900	20,900		
Floor Area Ratio	N/A				
Height Off Street Parking	35	<35	<35		
Off-Street Parking Off-Street Loading	43	89 2	82 2		
fitt-Stroot Loading					

TOWN OF CARMEL SITE PLAN APPLICATION.

Will variances be required? Yes: ☑ No: □	If yes, identify variances: 50 foot setback from outdoor play space to rear lot line and 15 foot landscape buffer from outdoor play area to rear lot line.
PR	OPOSED BUILDING MATERIALS
Foundation N/A Structural System Roof Exterior Walls	
	PLICANTS ACKNOWLEDGEMENT
information contained in the support of the support	the above statements and information, and all statements and porting documents and drawings attached hereto are true and Applicants Signature
Sworn before me this/_/	day of Thursday 20/7
Buchle Stewn	MICHELE STEWART Notary Public - State of New York No. 01ST6324893 Qualified in Bronx County My Commission Expires May 18, 2019



SITE PLAN COMPLETENSS CERTIFICATION FORM



All Site Plans submitted to the Planning Board for review shall include the following information and details, as set forth in Section 156-61 B of the Town of Carmel Zoning Ordinance.

This form shall be included with the site plan submission

	Requirement Data	To Be Completed by the Applicant	Waived by the Town
1	Name and title of person preparing the site plan		
2	Name of the applicant and owner (if different from applicant)		
3	Original drawing date, revision dates, scale and pertharrow		
4(Tax map, block and lot number(s), zoning district		
5	All existing property lines, name of owner of each property within a 500' radius of the site		
6	Contour lines at two-foot intervals, grades of all roads, driveways, sanitary and storm sewers		
7	The location of all water bodies, streams, watercourses, wetland areas, wooded areas, rights-of-way, streets, roads, highways, railroads, buildings, structures		
8	The location of all existing and proposed easements		
9	The location of all existing and proposed structures, their use, setback dimensions, floor plans, front, side and rear elevations, buildable area.		
10	On site circulation systems, access, egress ways and service roads, emergency service access and traffic mitigation measures		
11	Sidewalks, paths and other means of pedestrian circulation		
12	On-site parking and loading spaces and travel aisles with dimensions		
13	The location, height and type of exterior lighting fixtures	☒. ✓	
14	Proposed signage		
15	For non-residential uses, an estimate of the number of employees who will be using the site, description of the operation, types of products sold, types of machinery and equipment used		



TOWN OF CARMEL SITE PLAN COMPLETENSS CERTIFICATION FORM



16	The location of clubhouses, swimming poels, open spaces, parks or other recreational areas, and identification of who is responsible for maintenance.		
17	The location and design of buffer areas, screening or other landscaping, including grading and water management. A comprehensive landscaping plan in accordance with the Tree Conservation Law	N/A D	
18	The location of public and private utilities, maintenance responsibilities, trash and garbage areas	×	
19	A list, certified by the Town Assessor, of all property owners within 500 feet of the site boundary		
20	The state of the s		

Applicants Certification (to be completed by the licensed professional preparing the site plan:

hereby certify that the size plan to which I have attached my seal and signature, meets all of the requirements of §156-618 of the Town of Carmel Zoning Ordinance:

Signature - Applicant

Baymond C. Duiker

9/14/17 Pata

9-/3-/7 Date Professionale Seal



SITE PLAN COMPLETENSS CERTIFICATION FORM



Town Certification (to be completed by the Town)

hereby confirm that the site plan meets all of the requirements of §156-61B of the Town of Carmel Zoning Ordinance:

Signature - Planning Board Secretary

Date

Date

617.20 Appendix B Short Environmental Assessment Form

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					
Easter Seals New York					
Name of Action or Project: Pre-K Center for special needs students.			<u></u>		
Project Location (describe, and attach a location map):					
97 Old Route 6, Suites 7 & 8 Carmel, New York 10512					
Brief Description of Proposed Action: Easter Seals is proposing to open a center to accommodate 20 at 97 Old Route 6 (Suites 7 & 8) in the Town of Carmel (Tax Lot to buildout the interior space and install an outdoor play space for	55.11	-1-25) Faster Seal	/staff mer	mbers) osing	
Name of Applicant or Sponsor:	Telep	hone			
Easter Seals of New York c/o Fedap Rehabilitation Services Inc.	Telep	none.			
The state of the s	E-Ma	^{il:} mgribbon@easter	rsealsny.d	org	
Address: 633 Third Avenue, 6th Floor					
City/PO:		State:	Zip Code:	_	
New York		New York	10017-6		
1. Does the proposed action only involve the legislative adoption of a plan, le	ocal lav	, ordinance,	NO	YES	
administrative rule, or regulation?				1	
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.					
2. Does the proposed action require a permit, approval or funding from any of the second seco	other go	overnmental Agency?	NO	YES	
Site Plan Approval from the Town of Carmel Planning Board					
· ·				X	
3.a. Total acreage of the site of the proposed action? 5.5	55	acres	1	 	
b. Total acreage to be physically disturbed?					
c. Total acreage (project site and any contiguous properties) owned					
or controlled by the applicant or project sponsor?	0	acres		ĺ	
4. Cheek all land uses that occur on, adjoining and near the proposed action.					
)	
		E Residential rankL.	nmî	1	
□ Urban □ Rural (non-agriculture) □ Industrial 🛣 Comme	ercial	□ Residential (suburba	an)	ļ	
□ Urban □ Rural (non-agriculture) □ Industrial 🛣 Commo	ercial		an)		
□ Urban □ Rural (non-agriculture) □ Industrial 🛣 Commo □ Forest □ Agriculture □ Aquatic □ Other (s	ercial		an)		

5. Is the proposed action.	NO	VES	N/A
a. A permitted use under the zoning regulations?		X	1107.5
b. Consistent with the adopted comprehensive plan?		X	
6. Is the proposed action consistent with the predominant character of the existing built or natural		NO	YES
randscape?			X
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental A	irea?	NO	YES
If Yes, identify	· · · · · · · · · · · · · · · · · · ·	Х	
8. a. Will the proposed action result in a substantial increase in traffic above present levels?		NO	YES
b. Are public transportation service(s) available at or near the site of the proposed action?		X	
c Are any pedestrian accommodations or bicycle routes available on or near site of the proposed ac	ation?		
9. Does the proposed action meet or exceed the state energy code requirements?		NO	YES
If the proposed action will exceed requirements, describe design features and technologies:			
			Х
10. Will the proposed action connect to an existing public/private water supply?		NO	YES
If No. describe method for providing potable water:			
		X	
11. Will the proposed action connect to existing wastewater utilities?		NO	YES
If No. describe method for providing wastewater treatment:			
waster treatment.	-· -		Х
12. a. Does the site contain a structure that is listed on either the State or National Register of Historic Places?		NO	YES
b. Is the proposed action located in an archeological sensitive area?		Х	
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	YES
	L	X	
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:		Х	
and the control of th			
14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check a ☐ Shoreline ☐ Forest ☐ Agricultural/grasslands ☐ Early mid-succession	II that a	oply:	
☐ Shoreline ☐ Forest ☐ Agricultural/grasslands ☐ Early mid-succession ☐ Wetland ☐ Urban	onal		
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed	- Т	NO	YES
by the State or Federal government as threatened or endangered?	-	,,,,	1 E.3
16. Is the project site located in the 100 year flood plain?		X NO	VEC
	-		YES
17. Will the proposed action create storm water discharge, either from point or non-point sources? If Yes,		X NO	YES
a Will storm water discharges flow to adjacent properties? ☑ NO ☐ YES			х
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains	-		
11 3 CS, enerty describe:		1	
Proposed play area will sheet flow over the lawn to the existing drainage collection system	m.		
	—]		

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)?	NO	YES
If Yes, explain purpose and size:	X	- Programme Communication
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility?	NO	YES
If Yes. describe.	X	Personal transfer of the second
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste?	NO	YES
If Yes, describe:	X	
1 AFFIRM THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE KNOWLEDGE	BEST O	FMY
Applicant/sponsor name: Easter Seals New York, Marianne Gribbon Date: 09/14/2017 Signature:		

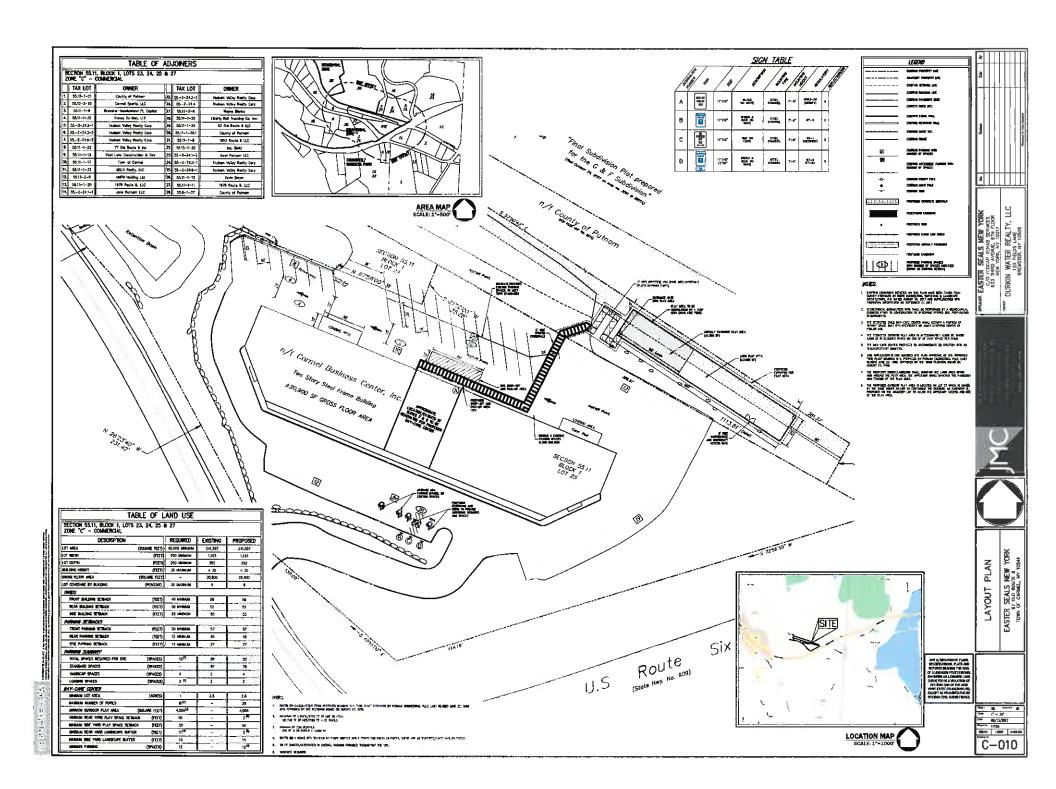
Part 2 - Impact Assessment. The Lead Agency is responsible for the completion of Part 2. Answer all of the following questions in Part 2 using the information contained in Part 1 and other materials submitted by the project sponsor or otherwise available to the reviewer. When answering the questions the reviewer should be guided by the concept "Have my responses been reasonable considering the scale and context of the proposed action?"

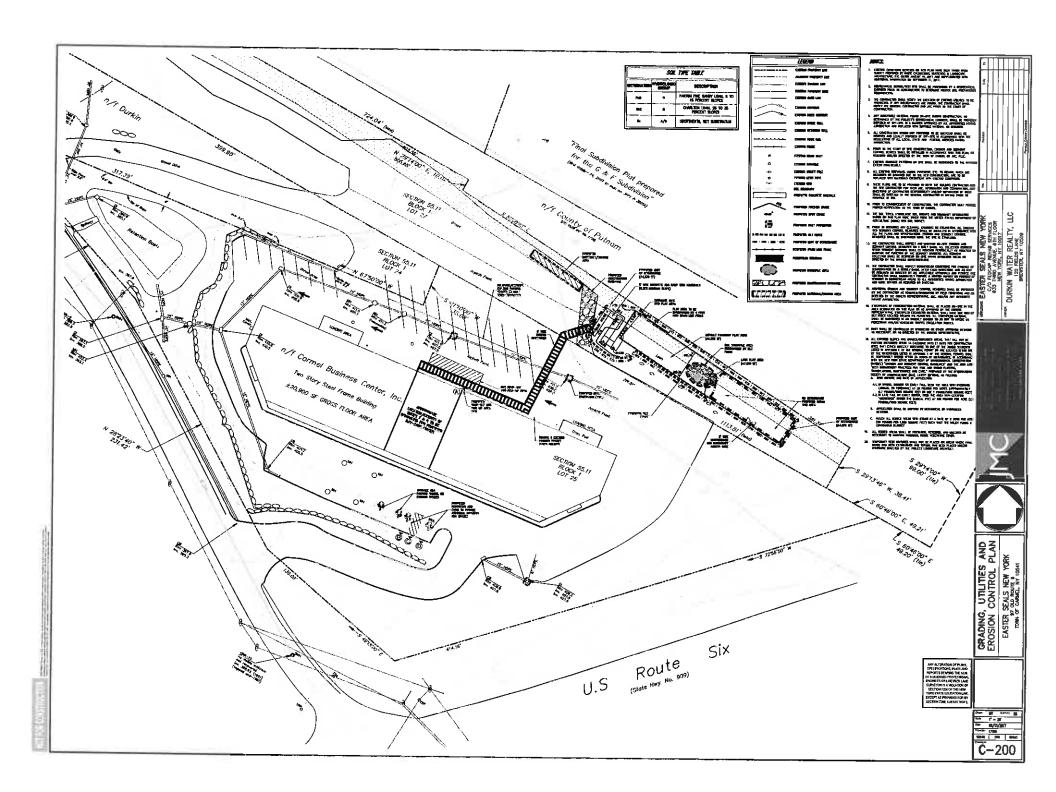
•		No, or small impact may occur	Moderate to large impact may occur
1.	Will the proposed action create a material conflict with an adopted land use plan or zoning regulations?		
2.	Will the proposed action result in a change in the use or intensity of use of land?		
3.	Will the proposed action impair the character or quality of the existing community?		
4.	Will the proposed action have an impact on the environmental characteristics that caused the establishment of a Critical Environmental Area (CEA)?		
5.	Will the proposed action result in an adverse change in the existing level of traffic or affect existing infrastructure for mass transit, biking or walkway?		
6.	Will the proposed action cause an increase in the use of energy and it fails to incorporate reasonably available energy conservation or renewable energy opportunities?		·
7.	Will the proposed action impact existing: a. public / private water supplies?		
	h. public private wastewater treatment utilities?		
8.	Will the proposed action impair the character or quality of important historic, archaeological, architectural or aesthetic resources?		
9.	Will the proposed action result in an adverse change to natural resources (e.g., wetlands, waterbodies, groundwater, air quality, flora and fauna)?		

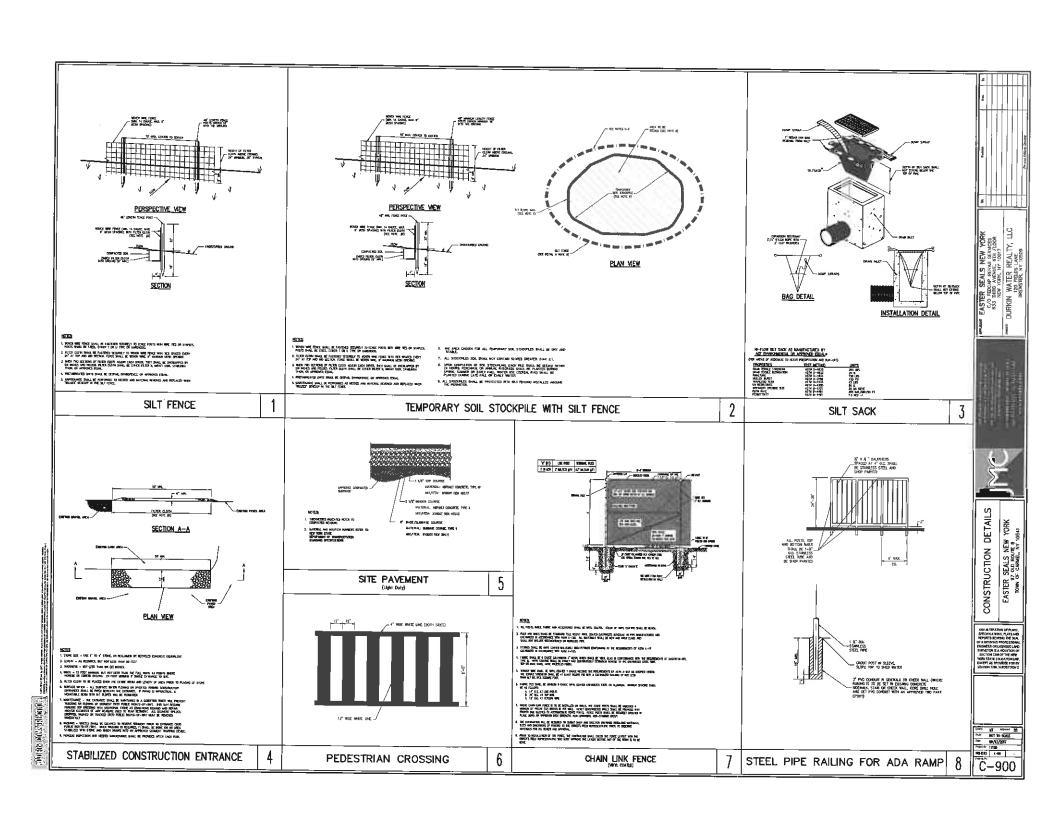
	No. 61 small impact may occur	Moderate to large impact may occur
10 Will the proposed action result in an increase in the potential for crosion, flooding or drainage problems?	The measurement of the state of	Apply Versicalish consolided decreases and the six
11. Will the proposed action create a hazard to environmental resources or human health?		

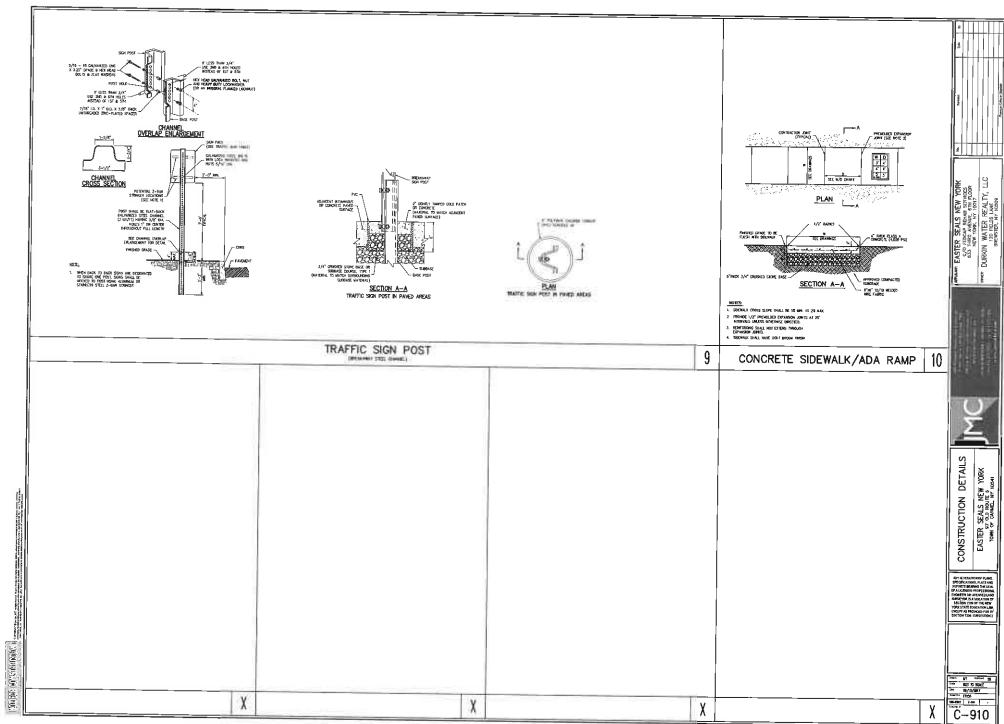
Part 3 - Determination of significance. The Lead Agency is responsible for the completion of Part 3. For every question in Part 2 that was answered "moderate to large impact may occur", or if there is a need to explain why a particular element of the proposed action may or will not result in a significant adverse environmental impact, please complete Part 3. Part 3 should, in sufficient detail, identify the impact, including any measures or design elements that have been included by the project sponsor to avoid or reduce impacts. Part 3 should also explain how the lead agency determined that the impact may or will not be significant. Each potential impact should be assessed considering its setting, probability of occurring, duration, irreversibility, geographic scope and magnitude. Also consider the potential for short-term, long-term and cumulative impacts

Check this box if you have determined, based on the information and analysis above, and any supporting that the proposed action may result in one or more potentially large or significant adverse impacts an environmental impact statement is required.		
D)	Check this box if you have determined, based on the info that the proposed action will not result in any significant	rmation and analysis above, and any supporting documentation, adverse environmental impacts.
-	Name of Lead Agency	Date
Pri	in or Type Name of Responsible Officer in Lead Agency	Title of Responsible Officer
	Signature of Responsible Officer in Lead Agency	Signature of Preparer (if different from Responsible Officer)











TWO MUSCOOT ROAD NORTH MAHOPAC, NY 10541 P 845-628-6613 F 845-628-2807 e-mail: joel.greenberg@arch-visions.com

September 19, 2017

Harold Gary, Chairman and Members of the Planning Board Town of Carmel 60 Mcalpin Avenue Mahopac, New York 10541

Re;

Wixon Pond Estates Wixon Pond Road T.M. # 53.20-1-19

Dear Mr. Gary and Members of the Board,

On behalf of my client, I respectfully request a six month extension of our preliminary approval. After many years, the project has finally been approved by the NYC-DEP. Our next step is to get Putnam County Health Department approval.

Thanking you in advance for your interest and cooperation in this matter. If you have any questions, please do not hesitate to contact me.

Very truly yours

Joel Greenberg, AIA

Trombetta, Rose

From:

Zef Smajlaj <zef510park@aol.com>

Sent:

Thursday, September 14, 2017 1:23 PM

To:

Trombetta, Rose

Subject:

Re: My email

Hi Rose

It was nice talking to you today.

I need to extend my building permit, I understand that I have to attend a meeting on the 27th of September, Please let me know by wen i need to drop my check of for a \$1000.00.

Kind regards.

Zef Smajlaj.

Zef Smajlaj 510 Park Avenue 212-355-1490 p 212-355-2867 f

----Original Message-----

From: Trombetta,Rose < rtrombetta@ci.carmel.ny.us>

To: zef510Park <<u>zef510Park@aol.com</u>> Sent: Thu, Sep 14, 2017 12:11 pm

Subject: My email

Rose Trombetta

Planning Office Carmel Town Hall 60 McAlpin Ave Mahopac, NY 10541 845-628-1500 Ext. 190



September 13, 2017

Town of Carmel Planning Board 60 McAlpin Avenue Mahopac, New York 10541

RE: PCSB Amended Site Plan

Route 6

Tax Map No. 86.11-1-1 - Lot 1

Dear Chairman Gary and Members of the Board:

Enclosed please find four copies of the construction as-built survey entitled "Survey of Property Prepared for Putnam County Savings Bank." last revised May 15, 2017. By way of this letter we respectfully request this item be placed on the September 27, 2017 Planning Board agenda for recommendation of a bond return. It is our understanding the Engineering Department has already reviewed the as-built survey and found it to be acceptable.

If you should have any questions or comments, please feel free to contact our office.

Very truly yours,

INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.

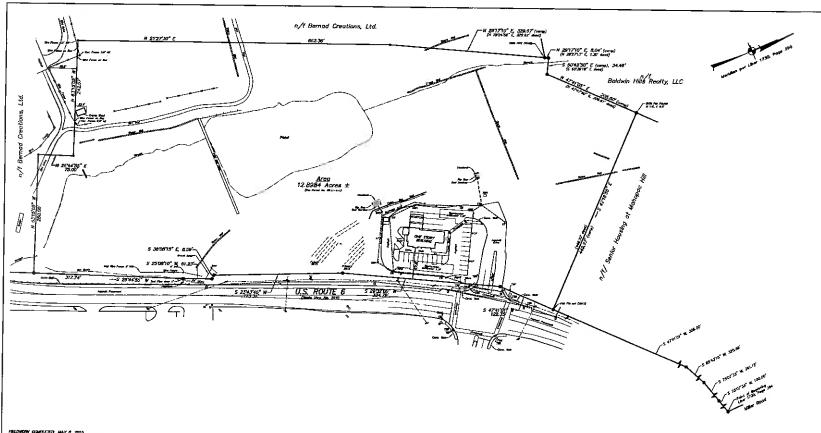
Senior Principal Engineer

JJC/dlm

Enclosures

Robert Farrier, w/enclosures

Insite File No. 15130,100



FELDWORK COMPLETED: MAY & 2015 FELDWORK BROUGHT TO DATE: MAY 14, 2017

MAP PREPARED: JANE 8, 2015 MAP REMISED: MAY 15, 2017

MINSITE

LEGEND	
00000000000	Store Wat
	Hire Fances
	Concrete Curb
g.cs	Cutah Bosin
o ^{ce}	Drein Intel
o ^{HDS}	Hydrodynamic Separator
-214	Santery Henhele
	Utility Pale (see assess asses)
۰	Lightpole
D.Dec	Destric Sas
CI TSP	Dolla Signal Pale
_ TSS	Troffic Signal Bax

Survey of Property

Prepared for

PUTNAM COUNTY SAVINGS BANK

Situate in the

Town of Carmel Putnam County, New York

Scale 7 = 60"



September 13, 2017

Town of Carmel Planning Board 60 McAlpin Avenue Mahopac, New York 10541

RE: Gateway Summit Senior Housing Lot 6

Gateway Drive

Tax Map No. 55.-2-24.6-1 & 55.-2-24.6-2

Dear Chairman Gary and Members of the Board:

As the Board is aware, approval for the subject project was regranted effective February 8, 2017, which will expire on February 8, 2018. Since that time, there has been no substantial change in the condition of the site and/or its environs. The applicant requests a 1 year extension of the Site Plan approval. Please place this item on the Board's upcoming September 27th, 2017 agenda for consideration of an extension of approval.

A check is enclosed for the \$1,000.00 application fee.

Should you have any questions or comments regarding this information, please feel free to contact our office.

Very truly yours,

INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.

Senior Principal Engineer

JJC/dlm

Enclosure

cc: Fred Koelsch, CRI

Jeffrey J. Contellato, PE

Insite File No. 04232.106



September 13, 2017

Town of Carmel Planning Board 60 McAlpin Avenue Mahopac, New York 10541

RE: The Fairways Senior Housing Lot 7
Gateway Drive
Tax Map No. 55.-2-24.8-1 & 55.-2-24.8-2

Dear Chairman Gary and Members of the Board:

As the Board is aware, approval for the subject project was regranted effective February 8, 2017, which will expire on February 8, 2018. Since that time, there has been no substantial change in the condition of the site and/or its environs. The applicant requests a 1 year extension of the Site Plan approval. Please place this item on the Board's upcoming September 27th. 2017 agenda for consideration of an extension of approval.

A check is enclosed for the \$1,000.00 application fee.

Should you have any questions or comments regarding this information, please feel free to contact our office.

Very truly yours,

INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.

By:

Jeffrey J. Contelpro, PE Senior Principal Engineer

JJC/dlm

Enclosure

cc: Fred Koelsch, CRI Insite File No. 05140.100 KENNETH SCHMITT Town Supervisor

FRANK D. LOMBARDI Town Councilman Deputy Supervisor

JOHN D. LUPINACCI
Town Councilman
SUZANNE MC DONOUGH
Town Councilwoman
JONATHAN SCHNEIDER
Town Councilman

TOWN OF CARMEL

TOWN HALL



60 McAlpin Avenue Mahopac, New York 10541 Tel. (845) 628-1500 • Fax (845) 628-6836 www.carmelny.org ANN SPOFFORD Town Clerk

KATHLEEN KRAUS
Receiver of Taxes

MICHAEL SIMONE Superintendent of Highways Tel. (845) 628-7474

MEMORANDUM

To:

Harold Gary, Chairman

Town of Carmel Planning Board

Date:

August 17, 2017

From:

Supervisor Kenneth Schmitt



RE:

Town Board Voting Meeting, November 19, 2014

The Town Board at their Work Session held on Wednesday, August 16, 2017, made a motion to forward to the Planning Board the attached Proposed Ordinance Regarding Wireless Telecommunications.

Please have the Planning Board review the attached draft and provide any comments or recommendations to the Town Board within 45 days of receipt of this memo.

Thank you in advance for your cooperation.

Cc:

Town Board

Town Legal Counsel

file

TOWN OF CARMEL WIRELESS TELECOMMUNICATIONS ORDINANCE

§ I. Legislative intent.

- 1. The Telecommunications Act of 1996 preserved, with certain limitations, local government land use and zoning authority concerning the placement, construction, and modification of wireless telecommunications facilities. The purpose of this Wireless Telecommunications Ordinance is to provide the Town of Carmel with the authority to properly regulate necessary utility infrastructure for the provision of wireless telecommunications facilities within the Town,
- 2. The Town Board finds that the regulation of wireless telecommunications facilities is necessary to protect the predominantly suburban and rural residential character of the Town and the property values of the community; such regulation is needed to protect schools, parks, churches, playgrounds and historic structures; to preserve scenic areas; important commercial corridors; to minimize aesthetic impacts; to preserve the health and safety of residents; and to respect the need of wireless telecommunications service providers to relay signals without electronic interference from other service providers' operations, while not unreasonably limiting competition among them.
- 3. The Town Board declares that the protection of residential areas of the Town is of paramount importance and that any local regulations of wireless telecommunications facilities must furnish all possible protection for residential areas, and further declares that the provisions of this article are to be interpreted to favor protection of residential areas. The Planning Board shall, before issuing a special exception use permit for a wireless telecommunications facility in a residentially zoned area, satisfy itself that all other alternatives have been exhausted.
- 4. The Town Board finds that the aesthetic appearance of wireless telecommunication facilities is a paramount concern, particularly along the Town's important commercial corridors.
- 5. In general, shared use and collocation of antennas and antenna- mounting structures are preferred to the construction of new facilities.

§ II. Definitions.

As used in this article, the following terms shall have the meanings indicated:

ADMINISTRATIVE APPROVAL — Zoning approval that the Director of Code Enforcement or designee is authorized to grant after administrative review.

ADMINISTRATIVE REVIEW — Nondiscretionary evaluation of an application by the Director of Code Enforcement or designee. The process is not subject to a public hearing. The procedures for administrative review are established in § of this chapter.

ANSI — The American National Standards Institute.

ANTENNA — A system of electrical conductors for radiating or receiving radio waves.

ANTENNA, WIRELESS TELECOMMUNICATIONS — Any device, including the supporting structure and all related appurtenances, used for the transmission and reception of radio waves as part of wireless two-way communications.

BASE STATION

- 1. A structure or equipment at a fixed location that enables FCC-licensed or authorized wireless communications between user equipment and a communications network. The term does not encompass a tower as defined herein or any equipment associated with a tower. "Base station" includes, without limitation:
 - 1. Equipment associated with wireless communications services such as private, broadcast, and public safety services, as well as unlicensed wireless services and fixed wireless services such as microwave backhaul.
 - 2. Radio transceivers, antennas, coaxial or fiber-optic cable, regular and backup power supplies, and comparable equipment, regardless of technological configuration.
 - 3. Any structure other than a tower that, at the time the relevant application is filed with the Town under this section, supports or houses equipment defined as a "wireless telecommunications facility" that has been reviewed and approved under the applicable zoning or siting process, or under another state or local regulatory review process, even if the structure was not built for the sole or primary purpose of providing that support.
- 2. The term does not include any structure that, at the time the relevant application is filed with the Town under this article, does not support or house equipment defined as a "wireless telecommunications facility."

COLLOCATION — The mounting or installation of a subsequent wireless telecommunications antennas and related transmission equipment on an eligible support structure for the purpose of transmitting and/or receiving radio frequency signals for communications purposes.

ELIGIBLE FACILITY REQUEST OR ELIGIBLE FACILITIES REQUEST — Any request for a wireless communications facility that does not involve substantial change to the physical conditions of a tower, base station or building involving:

- 1. Collocation of new transmission equipment in a high priority area as defined in § IX; or
- 2. Removal of transmission equipment; or
- 3. Replacement of transmission equipment.

ELIGIBLE SUPPORT STRUCTURE — Any tower or base station as defined in this section, provided that it is existing at the time the relevant application is filed with Building Department under this article.

EXISTING FACILITY — A constructed tower or base station is existing for purposes of this article if it has been reviewed and approved under the applicable zoning or siting process, or under another state or local regulatory review process, provided that a tower that has not been reviewed because it was not in a zoned area when it was built, but was lawfully constructed, is existing for purposes of this article.

FCC — The Federal Communications Commission.

FREQUENCY — The number of sinusoidal cycles made by electromagnetic radiation in one second; usually expressed in units of hertz (Hz).

NIER (NONIONIZING ELECTROMAGNETIC RADIATION) — Electromagnetic radiation of such frequency that the energy of the radiation does not dissociate electrons from their constituent atoms when an atom absorbs the electromagnetic radiation.

RF — Radio frequency.

SUBSTANTIAL CHANGE — A modification substantially changes the physical dimensions of an eligible support structure if it meets any of the following criteria:

- 1. The mounting of the proposed antenna on existing towers, other than towers in the public rights-of-way, would increase the existing height of the tower by more than 10%, or by the height of one additional antenna array with separation from the nearest existing antenna not to exceed 20 feet, whichever is greater; for other eligible support structures, it increases the height of the structure by more than 10% or more than 10 feet, whichever is greater, except that the mounting of the proposed antenna may exceed the size limits set forth in this subsection if necessary to avoid interference with existing antennas;
- 2. The mounting of the proposed antenna would involve the installation of more than the standard number of new equipment cabinets for the technology involved, not to exceed four, or more than one new equipment shelter;
- 3. The mounting of the proposed antenna would involve adding an appurtenance to the body of existing towers, other than towers in the public rights-of-way, that would protrude from the edge of the towers more than 20 feet, or more than the width of the tower structure at the level of the appurtenance, whichever is greater; for other eligible support structures, it involves adding an appurtenance to the body of the structure that would protrude from the edge of the structure by more than six feet, except that the mounting of the proposed antenna may exceed the size limits set forth in this subsection if necessary to shelter the antenna from inclement weather or to connect the antenna to the tower via cable;
- 4. The mounting of the proposed antenna would involve excavation outside the current existing structure site, defined as the current boundaries of the leased or owned property surrounding the existing structure and any access or utility easements currently related to the site;
- 5. The modification defeats concealment and/or stealth elements of the support structure; or
- 6. The modification does not comply with prior conditions of the approval for the existing structure site; provided, however, that this limitation does not apply to any modification

that is noncompliant only in a manner that would not exceed the thresholds identified above.

STEALTH TECHNOLOGY- a cellular telecommunications facility that is designed to blend into the surrounding environment. Examples of stealth facilities include:

- 1. Architecturally screened roof-mounted antennas;
- 2. Building-mounted antennas painted to match the existing structure;
- 3. Antennas integrated into architectural elements; and
- 4. Antenna structures designed to look like light poles, trees, clock towers, bell steeples, or flag poles.

TOWER — Any structure built for the sole or primary purpose of supporting any FCC- licensed or authorized antennas and their associated facilities, including structures that are constructed for wireless communications services, including, but not limited to, private, broadcast, and public safety services, as well as unlicensed wireless services and fixed wireless services such as microwave backhaul, and the associated site.

TRANSMISSION EQUIPMENT — Equipment that facilitates transmission for any FCC-licensed or authorized wireless communication service, including, but not limited to, radio transceivers, antennas, coaxial or fiber-optic cable, and regular and backup power supplies. The term includes equipment associated with wireless communications services, including, but not limited to, private, broadcast, and public safety services, as well as unlicensed wireless services and fixed wireless services such as microwave backhaul.

WIRELESS TELECOMMUNICATION FACILITIES — Any facility for the receiving or transmitting of wireless signals for commercial purposes, such as cellular telephone services, personal communication services (PCS), specialized mobile radio (SMR), enhanced mobile radio (ESMR), paging, satellite digital audio radio service (SDARS), fleet communication systems and similar commercial facilities, whether operated in support of another business activity or available for the transmission of signals on a sale or rental basis. As used herein the term shall include any necessary support structure, connection cables and equipment buildings as well as towers or monopoles.

§ III. Special exception use permit; policies and goals.

In order to assure that the placement, construction and modification of wireless telecommunications facilities conforms to the Town of Carmel's purpose and intent of this article, such facilities shall require the approval of a special permit. Consideration of a wireless telecommunications facility special permit shall address the following goals:

- 1. Establish an application procedure for person(s) seeking a special permit for a wireless telecommunications facility.
- 2. Establish a policy for examining an application for and issuing a special permit for a wireless telecommunications facility that is both fair and consistent.

- 3. Establish reasonable time frames for granting or not granting a special exception use permit for a wireless telecommunications facility.
- 4. Promote and encouraging, wherever possible, the sharing and/or collocation of a wireless telecommunications facility among service providers.
- 5. Promote and encouraging, wherever possible, the placement of a wireless telecommunications facility in such a manner as to cause minimal disruption to the land, property, buildings and other facilities adjacent to, surrounding and in generally the same area as the requested location of such facility.
- 6. Minimize any adverse aesthetic impacts to the community through the proper siting, location, screening, buffering or through the application of effective and innovative design measures and stealth technology.

§ IV. Eligible Facilities Request; administrative approval.

- 1. The Town has determined that the full special permit review procedure is unnecessary for certain wireless communications facilities that do not involve a substantial change to the physical characteristics of an existing tower, base station or building involving:
 - 4. Collocation of new transmission equipment in a high priority area as defined in § IX; or
 - 5. Removal of transmission equipment; or
 - 1. Replacement of transmission equipment.
- 2. Type of review. Upon receipt of an application for an Eligible Facilities Request, the Director of Code Enforcement or designee shall review such application to determine whether the application so qualifies as an Eligible Facility Request as defined in this chapter. If determined to be an Eligible Facility Request, such application shall undergo an administrative review, as defined herein. If it is determined that there will be a substantial change to an existing facility, this section shall not apply.
- 3. Application. An application form provided by the Building Department shall be provided which shall establish the information necessary for the Town to consider whether an application is an Eligible Facilities Request. Each application shall include the following:
 - (1) An application form provided by the Building Department.
 - (2) A radio frequency safety report demonstrating compliance with FCC safety standards.
 - (3) Certification that the installation will comply with visual standards set forth in § XIV.
 - (4) The payment of a fee for an eligible facilities request, as stated in the Town of Carmel Schedule of User Fees.

- 4. Timeframe for review. Within 60 days after an Eligible Facilities Request has been received, the Director of Code Enforcement or his designee shall approve the application unless it has been determined that the application creates a substantial change or otherwise does not meet the criteria of an Eligible Facilities Request. Once an Eligible Facilities Request application has been approved, the Director of Code Enforcement shall issue a building permit.
- 4. Tolling of time frame for review.
 - (1) The sixty-day review period begins to run when the application is filed, and may be tolled by mutual agreement by the Director of Code Enforcement and the applicant.
 - (2) The time frame for review may also be tolled when the Director of Code Enforcement or his designee determines that the application is incomplete. When an application has been determined to be incomplete, the following process shall be used to toll the time frame for review:
 - (a) The Director of Code Enforcement or designee shall provide written notice to the applicant within 30 days of receipt of the application, specifically delineating all missing documents or information required in the application or such other reasons why the application has been determined to be incomplete.
 - (b) Within 10 days of a supplemental submission, the Director of Code Enforcement or designee will notify the applicant if his or her application has been deemed complete. If application is still found to be incomplete after a supplemental submission, the applicant must provide additional supplemental submissions until the application has been deemed complete.
 - (c) The time frame for review will not begin to run again until the application has been deemed complete.
- 5. Failure to act. In the event the Director of Code Enforcement or designee fails to approve or deny a request seeking approval under this section within the time frame for review, accounting for any tolling, the application shall be approved. However, such approval does not become effective until the applicant notifies the Director of Code Enforcement in writing after the review period has expired, accounting for any tolling, that the application has been approved.
- 6. Interaction with §n (c)(7). If it is determined that the applicant's request is not covered by § 6409(a)¹ as delineated under this section, the presumptively reasonable time frame under § (c)(7),² as prescribed by the FCC's Shot Clock order, will begin to run from the issuance of the decision that the application is not a covered request. To the extent such

information is necessary, the Town may request additional information from the applicant to evaluate the application under \S 332(c)(7), pursuant to the limitations applicable to other \S (c)(7) reviews.

1. Editor's Note: See 47 U.S.C. § 1455(a).

2. Editor's Note: See 47 U.S.C. § 332(c)(7).

§ V. Procedure for special permit application; fee.

- 1. All applicants for a special permit for a wireless telecommunications facility or any modification of such facility and renewal thereof shall comply with the requirements set forth in this section.
- 2. The applicant shall be required to provide sufficient funds to an escrow account to allow the Planning Board to retain such technical experts as may be necessary to review the proposal, provided that no funds shall be deposited until a scope of work is agreed upon among the applicant, the expert and the Planning Board. In any event, the initial deposit shall be a minimum of \$3,500. A larger deposit may be required if, in the judgment of the Planning Board, the complexity and scope of the proposal requires additional expert review. The applicant shall maintain the escrow account at the amount of the initial deposit and replenish same in a timely manner. Payment in full thereto shall be a condition precedent to any approval by the Planning Board. Any unused funds will be returned to the applicant upon completion of the review. The withdrawal of an application shall not relieve the applicant of the payment obligations of this section.
- 3. The Planning Board is hereby authorized to issue a special permit under the provisions of this article subject to all of the special requirements and conditions herein and any requirements which may be made a part hereof. Every special permit shall also conform to all special findings that are specified herein.
- 4. Application to the Planning Board for a special permit under this article shall be accompanied by a fee in accordance with the current Town fee schedule.
- 5. Prior to or concurrent with the filing of a formal application to the Planning Board to obtain a special permit under this article, the applicant shall submit information needed to meet the requirements of the New York State Environmental Quality Review Act (SEQR). The Planning Board may hold a joint public hearing under the provisions of SEQR and this article whenever practicable. In the event that a final SEQR determination has not been made, no application for a special permit under this article shall be granted. The time periods in which the Planning Board may take action may be extended with the consent of the applicant.
- 6. The owner of the subject property shall be joined as a co-applicant.
- 7. In addition to any other applicable notice requirements established elsewhere in the Town Code, the applicant shall cause notice of the public hearing by notifying all property owners by certified mail, return receipt requested, within 500 feet of the boundary line of the subject property.

8. The applicant is required to provide a physical mockup of the proposed project

§ VI. Information required for wireless telecommunications antennas.

A. For all proposed wireless telecommunications antennas the following information shall be provided:

- 1. Name and address of the property owner and the applicant.
- 2. Address, lot and block and/or parcel number of the property.
- 3. Zoning district in which the property is situated.
- 4. Name and address of the person preparing the plan.
- 5. Size of the property and the location of all lot lines.
- 6. Approximate location of nearest residential structure.
- 7. Approximate location of nearest occupied structure.
- 8. Location of all structures on the property which is the subject of the application.
- 9. Location, size and height of all proposed and existing antennas and all appurtenant structures on the property.
- 10. Type, size and location of all proposed landscaping.
- 11. A report by a New York State licensed professional engineer documenting compliance with applicable structural standards and describing the general structural capacity of any proposed installation.
- 12. The number and type of antennas proposed.
- 13. A description of the proposed antennas and all related fixtures, structures, appurtenances and apparatus, including height above grade, materials, color and lighting.
- 14. A description of the antenna's function and purpose.
- 15. The make, model and manufacturer of the antenna.
- 16. The frequency, modulation and class of service.
- 17. Transmission and maximum effective radiated power.
- 18. Direction of maximum lobes and associated radiation and compliance with FCC regulations.
- 19. Consent to allow additional antennas (for purposes of collocating) on any new antenna towers, if feasible.
- 20. If a collocation, the cumulative impacts, visual and otherwise, of the proposed antenna.
- B. The items in Subsection A(12) through (18) shall be included in a report prepared by a radio frequency engineer, health physicist or other qualified professional.

§ VII. Facility service plan.

All proposals to provide or operate wireless telecommunications facilities shall be accompanied by a facility service plan, which shall include all the information necessary to allow the Planning Board to understand the existing, proposed and long-range plans of the applicant. The facility service plan shall include at least the following information:

1. The location, height and operational characteristics of all existing facilities of the applicant in and immediately adjacent to the Town.

- 2. A two-to-five-year plan for the provision of additional facilities in and immediately adjacent to the Town, indicating whether each proposed facility is for initial coverage or capacity-building purposes and showing proposed general locations or areas in which additional facilities are expected to be needed. Subsequent applications will confirm or modify the facility service plan so that the Planning Board may be kept up-to-date on future activities.
- 3. A commitment to collocate or allow collocation wherever possible on all existing and proposed facilities.

§ VIII. Requirements applicable to all wireless telecommunications antennas.

For all proposed wireless telecommunications antennas the following requirements are applicable:

- For proposed sites within 100 feet of other sources of RF energy, emanating from other wireless telecommunications facilities, the applicant shall provide an estimate of the maximum total exposure from all nearby stationary sources and a comparison with relevant standards. This assessment shall include individual and ambient levels of exposure. It shall not include such residentially based facilities such as cordless telephones.
- 2. All obsolete or unused wireless telecommunications antennas (including tower supports) shall be removed within 60 days of cessation of operations at the site. The Town may remove such facilities upon reasonable notice and an opportunity to be heard and treat the cost as a tax lien on the property. The Planning Board may also require at the time of approval, the posting of a bond sufficient to cover the costs of removing an abandoned wireless telecommunications facility.
- 3. All antennas shall be identified with signs not to exceed six square feet, listing the owner's or operator's name and emergency telephone number, and shall be posted in a conspicuous place.
- 4. New antennas may not be sited within 500 feet of any existing antenna. This restriction does not apply to the siting of new antennas at an existing site.
- 5. No source of NIER, including facilities operational before the effective date of this article, shall exceed the federal or state NIER emission standard.
- 6. New antennas and supporting towers shall be designed to accommodate additional antennas for purposes of collocating.

§ IX. Location of wireless telecommunications facilities.

1. Applicants for wireless telecommunications facilities shall locate, site and erect said wireless telecommunications facilities, including towers and other tall structures, in

accordance with the following priorities, one being the highest priority and six being the lowest priority:

- a. On existing tall structures or wireless telecommunications towers in nonresidential zoning districts.
- b. Collocation on a site with existing wireless telecommunications towers or structures in nonresidential districts, not fronting on NYS Routes 6, 6N, 52 and 301.
- c. Collocation on a site with existing wireless telecommunications towers or structures in any other nonresidential districts.
- d. Installation of a new wireless telecommunications facility in any nonresidential district.
- e. Installation of a new wireless telecommunications facility in any residential district.
- f. On other property in the Town.
- 2. If the proposed site for a wireless telecommunications facility is not the highest priority listed above, then a detailed explanation must be provided as to why a site of higher priority was not selected. The applicant must satisfactorily demonstrate the reason or reasons why such a permit should be granted for the proposed site and the hardship that would be incurred by the applicant if the permit were not granted for the proposed site.
- 3. An applicant may not bypass a site of higher priority by stating that the site presented is the only site selected or secured. An applicant shall address collocation as an option, and, if such option is not proposed, the applicant shall explain why collocation is impracticable. Agreements between providers limiting or prohibiting collocation shall not be considered a valid basis for a claim of impracticability. Notwithstanding the above, the Planning Board may approve any site located within an area in the above list of priorities, provided that the Planning Board finds that the proposed site is in the best interests of the health, safety and welfare of the Town of Carmel and its inhabitants.
- 4. The applicant shall submit a report demonstrating the applicant's review of the above priorities demonstrating the technical reasons for the site selection and, if the site selected is not the highest priority, a detailed explanation of why sites of higher priority were not selected.
- 5. Notwithstanding that a potential site may be situated in an area of highest priority or highest available priority, the Planning Board may disapprove an application for any of the following reasons:
 - (a) Conflict with safety and safety-related codes and regulations.

- (b) Conflict with traffic needs or traffic laws, or definitive plans for changes in traffic flow or traffic laws.
- (c) Conflict with the historic nature of a neighborhood.
- (d) The use of a wireless telecommunications facility which is contrary to an already stated purpose of a specific zoning or land use designation.
- (e) The placement and location of a wireless telecommunications facility which would create an unacceptable risk, or the probability of such, to residents, the public, employees and agents of the Village or employees of the service provider or other service providers.
- (f) Conflicts with the provisions of this article.

§ X. Antenna locations where public exposure is likely.

For roof-mounted, collocated or other situations in which public exposure is likely, the application shall include:

- 1. An assessment of potential public exposure to radio frequency (RF) energy from the proposed facility indicating the facility's compliance with applicable federal or state standards. The applicant shall identify the maximum exposure level, the locations at which this occurs and the estimated RF levels at specific locations of community interest, such as schools, residences or commercial buildings. Assumptions used in the calculations shall be stated, including building heights and topography.
- 2. A multiple-source exposure impact assessment shall be prepared if the wireless telecommunications facility is to be situated on the same site as existing facilities, such as a tower or roof.
- 3. Evidence that the maximum exposure to the general public will not exceed federal or state standards.
- 4. An identification of rooftop areas to which the public may have access. The exposure in these areas shall be in compliance with the standards established by any federal or state agencies.
- 5. An identification of how much of the roof, if any, should be designated a "controlled environment" due to RF field levels in accordance with the applicable federal or state standard.
- 6. Notification of the building management if any portion of the roof needs to be identified as a "controlled environment" due to RF levels in excess of the guidelines in the applicable federal or state standards.

§ XI. Roof-mounted antennas.

Requirements applicable to roof-mounted antennas are as follows:

- 1. Antennas shall not be placed more than 15 feet higher than the height limitation for buildings and structures within the zoning district in which the antenna is proposed to be erected.
- 2. Antennas may be set back from the outer edge of the roof a distance equal to or greater than 10% of the rooftop length and width, or such antennas may be attached directly to the roof parapet wall, whichever, in the Planning Board's opinion, will have the minimal visual impact while achieving signal coverage requirements.
- 3. If the Planning Board requests, antennas shall be the same color of the exterior of the top floor or parapet of the building except to the extent required by law.

§ XII. New wireless telecommunications towers.

- 1. The applicant shall demonstrate to the satisfaction of the Planning Board that there exists no tower on which the antenna may collocate or that collocation is not feasible for any of the following reasons:
 - (a) The applicant has been unable to come to a reasonable agreement to collocate on another tower. The names, addresses, phone and fax numbers of other service providers approached shall be provided, accompanied by a written statement as to the reason an agreement could not be reached.
 - (b) The antenna will not unreasonably interfere with the view of or from any park, designated scenic area, historic district, site or structure.
 - (c) The radio, television, telephone or reception of similar signals for nearby properties will not be disturbed or diminished.
 - (d) The applicant's network of antenna locations is not adequate to properly serve its customers, and the use of facilities of other entities is not suitable for physical reasons.
 - (e) Adequate and reliable service cannot be provided from existing sites in a financially and technologically feasible manner consistent with the service providers' system requirements.
 - (f) Existing sites cannot accommodate the proposed antenna due to structural or other engineering limitations (e.g., frequency incompatibilities).

- (g) For proposed monopole or tower facilities, there is a report by a New York State licensed professional engineer specializing in structural engineering certifying that the proposed design is structurally sound.
- b. Any application for the approval of a special permit for a wireless telecommunications facility shall include a report by a qualified radio frequency engineer, health physicist or other qualified professional, as determined by the Planning Board, which calculates the maximum amount of nonionizing electromagnetic radiation (NIER) which will be emitted from the proposed wireless telecommunications facility upon its installation and demonstrates that the facility will comply with the applicable federal or state standards.

§ XIII. NIER measurements and calculations.

All applicants for wireless telecommunications facilities in any district shall submit calculations of the estimated NIER output of the antenna(s). For antennas mounted on an existing structure not requiring a special permit, the calculations shall be provided to the Director of Code Enforcement prior to the issuance of a permit. For antenna applications requiring a special permit, the calculations shall be provided to the Planning Board at the time of making the application for special permit. NIER levels shall be measured and calculated as follows:

- 1. Measuring equipment used shall be generally recognized by the Environmental Protection Agency (EPA), National Council on Radiation Protection and Measurement (NCRPM), American National Standards Institute (ANSI), or National Bureau of Standards (NBS) as suitable for measuring NIER at frequencies and power levels of the proposed and existing sources of NIER.
- 2. Measuring equipment shall be calibrated as recommended by the manufacturer in accordance with methods used by the NBS and ANSI, whichever has the most current standard.
- 3. The effect of contributing individual sources of NIER within the frequency range of a broadband measuring instrument may be specified by separate measurement of these sources using a narrow band measuring instrument.
- 4. NIER measurements shall be taken based on maximum equipment output. NIER measurements shall be taken or calculated when and where NIER levels are expected to be highest due to operating and environmental conditions.
- 5. NIER measurements shall be taken or calculated along the property lines at an elevation six feet above grade at such locations where NIER levels are expected to be highest and at the closest occupied structure.
- 6. NIER measurements shall be taken or calculated following spatial averaging procedures generally recognized and used by experts in the field of RF measurement or other procedures recognized by the FCC, EPA, NCRPM, ANSI or NBS.

- 7. NIER calculations shall be consistent with the FCC, Office of Science and Technology (OST) Bulletin 65 or other engineering practices recognized by the EPA, NCRPM, ANSI, MBS or similarly qualified organization.
- 8. Measurements and calculations shall be certified by a New York State licensed professional engineer, health physicist or a radio frequency engineer. The measurements and calculations shall be accompanied by an explanation of the protocol, methods and assumptions used.

§ XIV. NIER monitoring and enforcement.

- 1. The owner and/or operator of the antenna shall perform a NIER level reading as set forth above and shall submit the results of the test to the Town of Carmel Director of Code Enforcement Department within 90 days of initially operating the antenna system, and annually thereafter. The owner or operator shall provide a report from a qualified professional who shall certify, under penalties of perjury, that the installation does not expose the general public to NIER standards in excess of those of any federal or state agency regulating RIF-energy.
- 2. The Town may measure NIER levels as necessary to ensure that the federal or state standards are not exceeded. Any approval of a wireless telecommunications facility shall be conditioned upon an offer of perpetual consent to allow the Town access to the premises to conduct the required NIER monitoring, should the operator of the wireless communications facility fail to do so.
- 3. If the standards of any federal or state agency are exceeded at the location of a proposed transmitting antenna, the proposed facility shall not be permitted.

§ XV. Bulk regulations and height.

- 1. In all zoning districts, all wireless telecommunications facilities shall comply with yard requirements of the Zoning Ordinance for principal buildings. No wireless telecommunications facilities may be located between the principal structure and the street.
- 2. In residential districts, wireless telecommunications facilities shall not exceed 50 feet in height unless the requirements of Subsection 3 below are met. In nonresidential districts, wireless telecommunications facilities shall not exceed 100 feet in height unless the requirements of Subsection C below are met.
- 3. In the event that applicants propose a height greater than that listed above, the applicant must demonstrate to the satisfaction of the Planning Board that:
 - a. Alternative means of mounting the antenna have been considered and are not feasible for the applicant.

- b. The height is the minimum height necessary for adequate operation to meet the applicants' communications needs and the aesthetic intrusion has been minimized to the greatest extent practicable.
- c. The height does not exceed 50% of the maximum height listed in Subsection 2. above.
- d. The site or building on which the facility is proposed to be installed does not become nonconforming or increase in nonconformity by reason of the installation of wireless telecommunications facilities. This includes, but is not limited to, yard, buffer, height, floor area ratio for equipment buildings, parking, open space and other requirements. The height requirements of this chapter shall apply to buildings and equipment shelters.
- 4. Notwithstanding anything stated herein, the Planning Board shall be permitted to increase the height of any tower beyond any limitations set forth herein in order to accommodate additional users. In reviewing a request for greater height, the Planning Board shall balance the effect of a greater height against the provision of one or more additional towers, collocating or other alternatives.
- 5. In residential districts, wireless telecommunications towers and monopoles shall be separated from residential buildings on adjacent or abutting properties for a distance by not less than two times the height of the tower or monopole. This provision shall apply to the proposed use for wireless telecommunications facilities of towers or monopoles existing at the time of adoption of this article.

§ XVI. Visual impact.

- 1. For all new wireless telecommunication facilities, the applicant shall provide to the Planning Commission a short Environmental Assessment Form (EAF), Part I and Visual EAF Addendum, Appendix A and B, including graphic information that accurately portrays the visual impact of the proposed facility from various vantage points selected by the Planning Board or the Planning Board's consultants, such as, but not limited to, residential areas, major commercial corridors, parks, historic buildings or scenic areas, including nighttime visual impacts. This graphic information may be provided in the form of photographs or computer-generated images with the tower superimposed, as may be required by the Planning Board or it's consultants.
- 2. The applicant shall provide a temporary physical mockup of the proposed project. The mockup shall be mounted in the same location(s) at the project site as the proposed project and shall be the same dimensions, color and set at the same height and width as proposed project. The mockup shall be installed two (2) weeks prior to the initial appearance before the Planning Board, and shall remain in place until the Planning Board renders its decision on the application. The applicant shall obtain authorization for the installation of this temporary mockup from the Building Department, to ensure the mockup is installed safely, and does not represent a hazard to public safety. The mockup

- shall be removed no later than two days after the close of the public hearing where the proposed project is considered.
- 3. For all buildings or equipment shelters to be located in a residential zoning district, the equipment shelter shall be treated in an architectural manner compatible with the residences in the vicinity.
- 4. Careful consideration of design details including color, texture, and materials shall be made to ensure the stealth design of the wireless telecommunication facility.
- 5. All building-mounted wireless telecommunication facilities shall be, at a minimum, designed as stealth facilities. Design techniques shall be employed to minimize visual impacts and provide appropriate camouflage.
- 6. All building-Mounted wireless telecommunication facility components, including all antenna panels, shall be painted or be designed to match the predominant color and/or design of the structure so as to be visually inconspicuous.
- 7. A minimum of three (3) live trees with a minimum height of 20-feet shall be planted in close proximity to a wireless telecommunications facility designed as a faux tree. The Planning Board may require additional live mature plantings to assist in mitigating visual impacts of wireless telecommunication facilities designed as faux trees.
- 8. Where a wireless telecommunications facility is proposed to be located on a building rooftop, the associated equipment shall be enclosed within an architecturally integrated penthouse or otherwise be completely screened to the satisfaction of the Planning Board. Required screening shall be decorative, of a design, color, and texture that is architecturally integrated with the building it is on.
- 9. Associated equipment shall be enclosed by a fence, landscaped screening decorative wall, or other screening and buffering measures found to be acceptable by the Planning Board.

§ XVII. Color and lighting standards.

Except as specifically required by the Federal Aviation Administration (FAA) or the FCC, antennas, including the supporting structure and all related appurtenances, shall:

- 1. Be colored to reduce the visual impact to the greatest degree possible.
- 2. Not be illuminated, except that buildings may use lighting required by the New York State Fire Prevention and Building Code or when required for security reasons. When lighting is used, it shall be compatible with the surrounding neighborhood to the greatest degree practicable.

§ XVIII. Fencing and NIER warning signs.

1. The area surrounding the facility shall:

- a. Be fenced or otherwise secured in a manner which prevents unauthorized access by the general public to areas where the standards of any federal or state agency are exceeded.
- b. Contain appropriate signage to warn of areas of the site where:
 - 1. NIER standards are exceeded.
 - 2. High risks for shocks or burns exist.
- 2. For wall-mounted antennas, the signage shall be placed no more than five feet off the ground.
- 3. No other signage, including advertising, shall be permitted at the facility, antenna or tower or supporting structure, unless required by law.

§ XIX. NIER exposure standards.

No antenna or combination of antennas shall expose the general public to NIER levels exceeding the standard of any federal or state agencies having jurisdiction. In addition, no antenna facility shall emit radiation such that the general public will be exposed to shock and bum in excess of the standards contained in ANSI C-95.1.

§ XX. Registration of antenna operators.

The Building Department shall keep a list of the names, addresses, type and maximum emissions of all antenna operators in the Town. This list shall be maintained from applications to the Planning Board and Building Department and from FCC or similar inventories of facilities in the Town. If the name or address of the owner or operator of the antenna facility is changed, the Building Department shall be notified of the change within 30 days.

§ XXI. Expiration of special permit.

- 1. The special permit shall be issued to the use that was the subject of the application and shall expire upon the termination of such use.
- 2. The Director of Code Enforcement shall require issuance of a revised or new special permit prior to the issuance of a building permit where the proposal requires a special permit use under this article.
- 3. After issuance of a building permit, the applicant shall provide a report to the Director of Code Enforcement prepared by a New York State licensed professional engineer certifying that any monopole or tower has been constructed in accordance with the plans approved by the Director of Code Enforcement.
- 4. All special permits issued for any wireless telecommunications facility shall be renewed every two years from the effective date of the approval of the facility. An application for renewal shall be made to the Planning Board. The Planning Board shall review any and

all changes in circumstances influencing the wireless telecommunications facility, or the actual facility itself, including its operation and use. If circumstances have materially changed, then the Planning Board shall reconsider the special permit approval. Failure to renew the special exception permit use, or the denial of the renewal by the Planning Board, shall result in the removal of the wireless telecommunications facility in accordance with this article.

§ XXII. Existing installations.

Any wireless telecommunications facility legally existing at the time that this article takes effect shall be permitted to continue, provided that the operator submits proof within six months of the enactment of this article that a valid building permit has been issued for the facility and that the facility complies with the standards adopted by the Federal Communications Commission and all requirements of this article, as certified by a professional engineer with qualifications acceptable to the Town of Carmel.

§ 345-99. Severability.

Should any section, paragraph, sentence, clause, word or provision of this article be declared void, invalid or unenforceable, for any reason, such decision shall not affect the remaining provisions of this article.