

**HAROLD GARY**  
*Chairman*

**CRAIG PAEPRER**  
*Vice-Chair*

**BOARD MEMBERS**  
**CARL GREENWOOD**  
**ANTHONY GIANNICO**  
**DAVE FURFARO**  
**CARL STONE**  
**KIM KUGLER**

**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*

**PLANNING BOARD AGENDA**  
**AUGUST 26, 2015 – 7:00 P.M.**

**MEETING ROOM #2**

**TAX MAP # PUB. HEARING MAP DATE COMMENTS**

**PUBLIC HEARING**

- |   |           |          |          |                   |
|---|-----------|----------|----------|-------------------|
| 1. Jordano/Gervasi Subdivision – 182 Bullet Hole Rd | 63.-1-16  | 08/26/15 |          | Bond Reduction    |
| 2. Wallauer's Carmel at Putnam Plaza – 1924 Route 6 | 55-11-1-4 | 08/26/15 | 07/29/15 | Amended Site Plan |

**RESOLUTION**

- |                                      |            |  |          |                   |
|--------------------------------------|------------|--|----------|-------------------|
| 3. Baldwin Subdivision – 150 Route 6 | 86.11-1-1  |  | 07/24/15 | Final Subdivision |
| 4. Random Ridge – Kennicut Hill Road | 76.10-1-23 |  | 05/04/15 | Final Subdivision |

**SITE PLAN**

- |  |           |  |          |                   |
|--|-----------|--|----------|-------------------|
| 5. NYC DEP – Drewville Rd & Stoneleigh Ave | 66.-2-53  |  | 07/2015  | Site Plan         |
| 6. Cargain Funeral Home – 418 Route 6      | 75.15-1-6 |  | 10/28/14 | Amended Site Plan |

**SUBDIVISION**

- |  |               |  |          |                     |
|--|---------------|--|----------|---------------------|
| 7. Thomas Fisher, Inc & Joseph Simone -<br>418 Route 6 | 75.15-1-6 & 8 |  | 08/28/14 | Lot Line Adjustment |
|--|---------------|--|----------|---------------------|

**MISC.**

- |   |            |  |  |             |
|---|------------|--|--|-------------|
| 8. Mahopac Wastewater Treatment Plant -<br>35 Mud Pond Road | 65.17-1-41 |  |  | Bond Return |
| 9. Minutes – 06/24/15                                       |            |  |  |             |



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321 Railroad Avenue, Greenwich, Connecticut 06830  
Tel: 203-863-8200 Fax: 203-861-6755 Web site: [www.ubproperties.com](http://www.ubproperties.com)  
(New York Stock Exchange Symbols: UBA and UBP)

July 10, 2015

Carmel Town Hall  
Planning Board  
60 McAlpin Avenue  
Mahopac, NY 10541

To Who It May Concern:

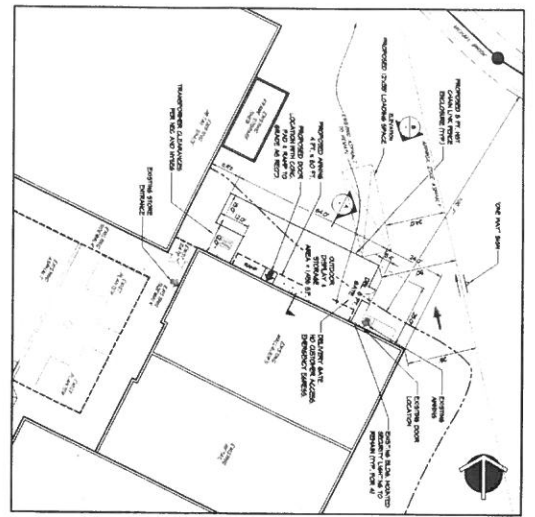
Urstadt Biddle Properties has authorized Wallauer's, located at Putnam Plaza Shopping Center at 1866 Route 6 to have large merchandise items to be picked up in the rear of the building.

Feel free to contact me with any questions.

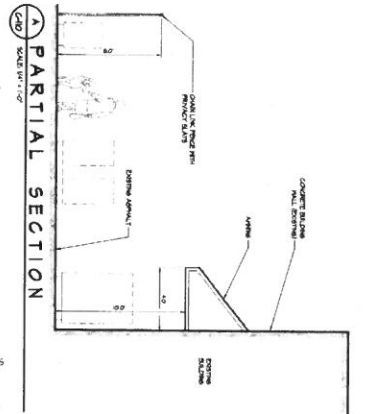
Sincerely

Debbie Nameth  
Assistant Director of Operations  
Urstadt Biddle Properties, Inc  
203-863-8218

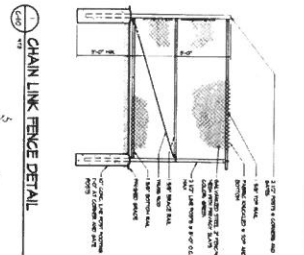
**UBA**  
**UBP**  
**Listed**  
**NYSE**



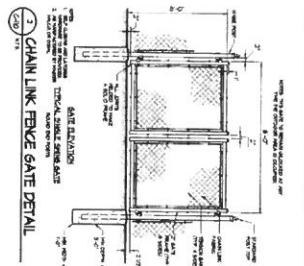
**ENLARGED PLAN**  
GRAPHIC SCALE  
1" = 20'-0"



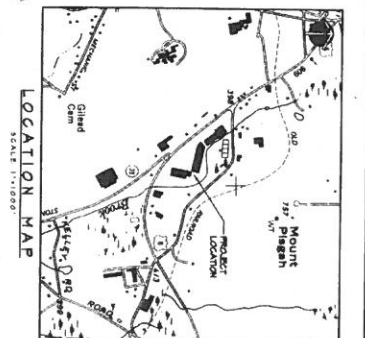
**PARTIAL SECTION**  
SCALE 1/4" = 1'-0"



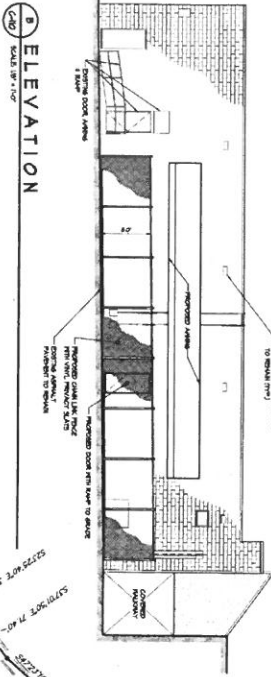
**CHAIN LINK FENCE DETAIL**



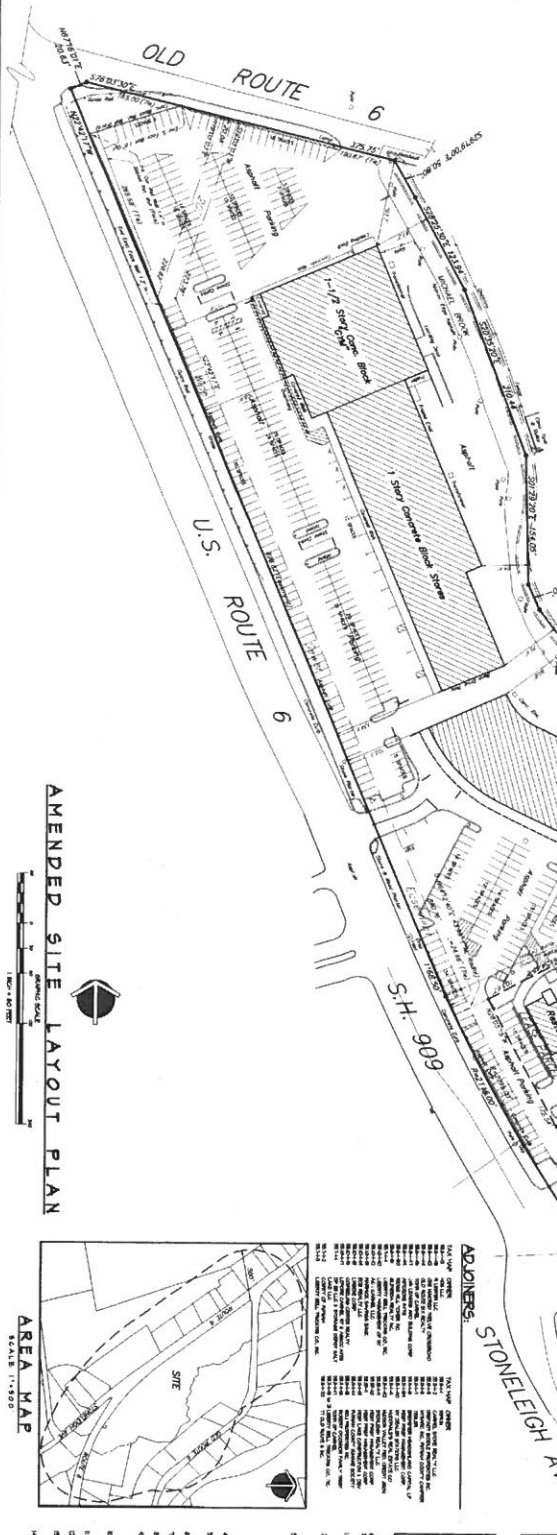
**CHAIN LINK FENCE GATE DETAIL**



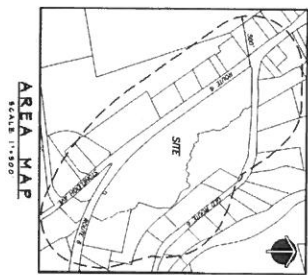
**LOCATION MAP**  
SCALE 1" = 1000'



**ELEVATION**  
SCALE 1/8" = 1'-0"



**AMENDED SITE LAYOUT PLAN**  
GRAPHIC SCALE  
1" = 40'-0"



**AREA MAP**  
SCALE 1" = 500'

**ADJACENTS**

| TO THE NORTH           | TO THE SOUTH           | TO THE EAST            | TO THE WEST            |
|------------------------|------------------------|------------------------|------------------------|
| 1. 100' CONCRETE BASE  | 1. 100' CONCRETE BASE  | 1. 100' CONCRETE BASE  | 1. 100' CONCRETE BASE  |
| 2. 100' CONCRETE BASE  | 2. 100' CONCRETE BASE  | 2. 100' CONCRETE BASE  | 2. 100' CONCRETE BASE  |
| 3. 100' CONCRETE BASE  | 3. 100' CONCRETE BASE  | 3. 100' CONCRETE BASE  | 3. 100' CONCRETE BASE  |
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| 7. 100' CONCRETE BASE  | 7. 100' CONCRETE BASE  | 7. 100' CONCRETE BASE  | 7. 100' CONCRETE BASE  |
| 8. 100' CONCRETE BASE  | 8. 100' CONCRETE BASE  | 8. 100' CONCRETE BASE  | 8. 100' CONCRETE BASE  |
| 9. 100' CONCRETE BASE  | 9. 100' CONCRETE BASE  | 9. 100' CONCRETE BASE  | 9. 100' CONCRETE BASE  |
| 10. 100' CONCRETE BASE | 10. 100' CONCRETE BASE | 10. 100' CONCRETE BASE | 10. 100' CONCRETE BASE |

**SCHEDULE of DISTRICT REGULATIONS**

| NO. | REQUIREMENT               | MINIMUM | MAXIMUM |
|-----|---------------------------|---------|---------|
| 1   | MINIMUM HEIGHT            | 10'     | 12'     |
| 2   | MINIMUM SETBACK           | 5'      | 10'     |
| 3   | MINIMUM LOT AREA          | 200     | 200     |
| 4   | MINIMUM LOT FRONTAGE      | 20'     | 20'     |
| 5   | MINIMUM LOT DEPTH         | 20'     | 20'     |
| 6   | MINIMUM LOT WIDTH         | 20'     | 20'     |
| 7   | MINIMUM LOT AREA PER FOOT | 100     | 100     |
| 8   | MINIMUM LOT AREA PER FOOT | 100     | 100     |
| 9   | MINIMUM LOT AREA PER FOOT | 100     | 100     |
| 10  | MINIMUM LOT AREA PER FOOT | 100     | 100     |

**OFF-STREET PARKING & LOADING**

PROVIDE OFF-STREET PARKING AND LOADING AREAS AS SHOWN ON THIS PLAN. ALL PARKING SPACES SHALL BE 8'0" WIDE BY 20'0" DEEP. ALL LOADING AREAS SHALL BE 10'0" WIDE BY 20'0" DEEP. ALL PARKING SPACES SHALL BE PAVED WITH ASPHALT. ALL LOADING AREAS SHALL BE PAVED WITH CONCRETE. ALL PARKING SPACES SHALL BE MARKED WITH WHITE PAINT. ALL LOADING AREAS SHALL BE MARKED WITH WHITE PAINT. ALL PARKING SPACES SHALL BE MARKED WITH WHITE PAINT. ALL LOADING AREAS SHALL BE MARKED WITH WHITE PAINT.

**SITE LAYOUT PLAN NOTES:**

1. ALL DIMENSIONS ARE IN FEET AND INCHES.
2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
3. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
4. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
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9. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
10. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.



July 30, 2015

Town of Carmel  
Planning Board  
Attn: Rose Trombetta  
60 McAlpin Avenue  
Mahopac, NY 10541

**RE: CRO-420 FAD-Related Stormwater Control/Management at  
Drewville Road**

Town of Carmel, Putnam County, New York

*Emily Lloyd  
Commissioner*

Dear Ms. Trombetta:

**Paul V. Rush, P.E.**  
Deputy Commissioner  
Bureau of Water Supply  
prush@dep.nyc.gov

465 Columbus Avenue  
Valhalla, NY 10595  
T: (914) 742-2020  
F: (914) 742-2027

New York City Department of Environmental Protection (DEP), is herein submitting the design drawings associated with proposed stormwater control improvements within the City's watershed in the Town of Carmel, Putnam County, New York. The proposed project is part of the City's efforts to comply with the U.S. Environmental Protection Agency's Filtration Avoidance Determination (FAD). Croton Falls Reservoir water quality will be protected by reducing the amount of sediment and other pollutants entering the reservoir as part of the stormwater runoff from Drewville Road.

The project site is adjacent to the Croton Falls Reservoir in the East of Hudson Watershed. It is located in a residential area within the central eastern section of the Town of Carmel, approximately 660 feet west of the intersection of Drewville Road and Stoneleigh Avenue (41° 23' 19.87" N, 73° 39' 56.84" W). The project area is bounded by the Croton Falls Reservoir to the north and by Drewville Road to the south. The ecology of the project area is comprised of a maple-dominant forest with topography sloping toward the Croton Falls Reservoir. Stormwater runoff from Drewville Road enters the site, flows toward the Reservoir, and deposits sediment and dissolved pollutants within and adjacent to the Reservoir.

The project's scope of work primarily includes:

- Installing a stormwater detention system consisting of a concrete diversion box, forebay, riprap-lined channel connecting the forebay to a retention pond (micropool), and riprap channel discharging into the reservoir.
- Constructing a permanent gravel road from an existing dirt vehicular entrance to the bottom of the forebay and micropool for maintenance access.

Town of Carmel Planning Board  
CRO-420 FAD-Related Stormwater Control/Management at Drewville Road  
Town of Carmel, Putnam County  
July 30, 2015

- Improving a portion of the roadside ditch along Drewville Road to prevent erosion and further failure of the stone wall.
- Improving a section of the stone wall along Drewville Road that has been damaged by erosion.

**Town of Carmel Approvals Background:**

- The initial application for the construction of the stormwater control and management system was submitted to the Town Planning Board on July 19, 2011; the project was reviewed by the Town Engineer and the Town Planner. Based on these reviews, modifications to the plans were made to incorporate a new landscaping.
- The project was presented to the Town Planning Board at the April 11, 2012 board meeting. Concerns regarding the visibility of the system from Drewville Road were raised, and requests to revise the tree cutting, proposed plantings and system location were made.
- During the Town Planning Board held on January 9, 2013 DEP presented three (3) alternative locations for the proposed drainage system to lessen environmental impacts, increase distance from Drewville road to the ponds and provide additional screening. The Planning Board requested renderings of the selected option.
- Renderings of the proposed system were presented to the Planning Board on March 13, 2013. The Planning Board reviewed the proposed plantings and determine that evergreens were not desired and requested the screening to match the existing conditions.
- The requests from March 13, 2013 were made and during the Planning Board held on May 8, 2013, the proposed project was accepted and referred to the Environmental Conservation Board (ECB).
- The tree cutting and wetlands permit applications were presented to the ECB during the board meeting held on May 7, 2015. A request to re-delineate the wetland boundary and re-survey the trees to be removed was made.
- On July 23, 2015 the revised tree cutting and wetland permit applications were presented to the ECB. Inspection reports from the Town Forester and the Town Wetland Inspector stating approval of the wetland delineation, wetland impact mitigation, proposed tree removal and plantings plans were incorporated in the permits application package. The ECB accepted the wetland and tree cutting permit applications.

**Submittal:**

Enclosed for your use are the inspection reports from the Town Forester and the Town Wetland Inspector along with five (5) full size copies of the design drawings. Should you have any questions

Town of Carmel Planning Board  
CRO-420 FAD-Related Stormwater Control/Management at Drewville Road  
Town of Carmel, Putnam County  
July 30, 2015

questions about this submittal, please contact me at (914) 742-2020 or Gloria Gutierrez from HDR/Gannett Fleming, Joint Venture (JV) at (516) 364-4140, extension 1243.

Respectfully,



Maria G. Mandarino, P.E.  
Chief, Capital Planning

Enclosure  
Town Wetland Inspector Report  
Town Forester Report  
Design Drawings

c: Zaidoun Ereifej, DEP  
Todd West, DEP  
Richard Wilhelm, DEP  
Gloria Gutierrez, JV  
Lina Posso, JV



July 9, 2015

Environmental Conservation Board  
Town of Carmel  
Town Hall  
Mahopac, NY 10541

RE: Application for Tree Cutting Permit on NYCDEP lands – Stormwater Control project on Drewville Road

Dear Environmental Conservation Board:

At your request, I have reviewed the application materials submitted by NYCDEP for the above referenced project. I reviewed the work area site today with Gloria Gutierrez and found the project to be as explained and laid out in the permit application materials. The following report addresses my findings and recommendations concerning this project in relation to the guidelines found in the town code.

The proposed work involves removing 197 live trees and 48 dead trees within the Limit of Disturbance zone outlined in the plans, or a total of 245 trees. The purpose of the tree removal is to allow for construction of the proposed access road and stormwater control structures. Each of the trees to be removed has been tagged and numbered, identified by species and diameter and plotted on a survey map. I observed the trees tagged for removal during my inspection. Aside from the 48 dead trees, an additional 16 white ash trees are tagged for removal. These ash trees can be expected to die in the coming years once the Emerald Ash Borer insect infests this area.

Many of the 245 trees to be removed are poor quality or poor health specimens, many of which are red maple. There are very few large diameter trees in the removal zones. The areas outside of the project area are forested lands and the removal of the designated trees will have minimal visual impact to the surrounding area. There is an area measuring 70 to 90 feet in width that is heavily forested separating the access road and Drewville Road, and these trees will screen the cleared access area from Drewville Road. The beginning of the access road at the entrance to Drewville Road is in a currently open area with few trees.

The applicant's planting plan will also serve to provide additional screening and will serve to restore the areas disturbed in the construction process. I have reviewed the planting plan and agree with species chosen for planting as well as planting locations. The placement of trees and shrubs has been well planned. I have also reviewed the wetland mitigation plan and I feel that the planned protection and restoration measures are adequate to protect and restore the site.

The actual tree removal work will be contracted out through a bid process which has not occurred to date. Therefore I was not able to learn exactly what procedures would be used in the tree removal procedure. I would request that this information be provided for review before any of the actual tree removal work begins.

I have no concerns with the proposed work in relation to the guidelines listed in the town code.

Recommendations: I recommend granting the permit covering the work detailed in the application and make the following further recommendations:

1. I recommend that the applicant provide the name of the tree removal contractor chosen to perform the work with a detailed explanation of the anticipated tree removal process and time frame for the work.
2. I recommend that I receive notification when the tree removal work is starting and I will make a site inspection of the work during the process.
3. I recommend a final inspection of the project when all reclamation is completed to confirm that all work was completed as proposed, and that the work sites are left in a safe and environmentally sound manner.

My review shows that this project necessary for water quality protection has been carefully planned, and it is my opinion that this project can be successfully accomplished with minimum environmental impacts by following these guidelines and recommendations. I would request that the escrow amount to cover my fees be set at \$1,500.

Respectfully submitted,

  
Doug Ramey

cc. Gloria Gutierrez



David J Klotzle Wetland  
Inspector

Carmel Town Hall  
60 McAlpin  
Avenue Mahop  
New York ,10541  
845 628-1500  
E-Mail: [dklotzle@bestweb.net](mailto:dklotzle@bestweb.net)

To: CARMEL ECB

Re: NYCDEP – Drewville road – TM # – 66.-2-53 –  
Stormwater detention system &  
wetland delineation/mitigation proposal

Date:7/7/2015

I have inspected the wetland determination and mapping and find them correct according to Town Code. The proposal for mitigating any damage to the existing wetland and buffer area is satisfactory although I will await the report from the Town Forestry Consultant on this matter.

Trees planted should be guaranteed through three growing seasons .

New plantings should be tagged for easy identification .

Open areas should be planted with a good riparian/woodland seed mixs.

Wetland inspector must be contacted five days in advance before the commencement of actual work and at all stages of the actual work through Rose Trombetta at Carmel Town Hall or by e mail at [dklotzle@bestweb.net](mailto:dklotzle@bestweb.net).

Yours Truly



David J Klotzle

Wetland Inspector



# NEW YORK CITY ENVIRONMENTAL PROTECTION BUREAU OF WATER SUPPLY

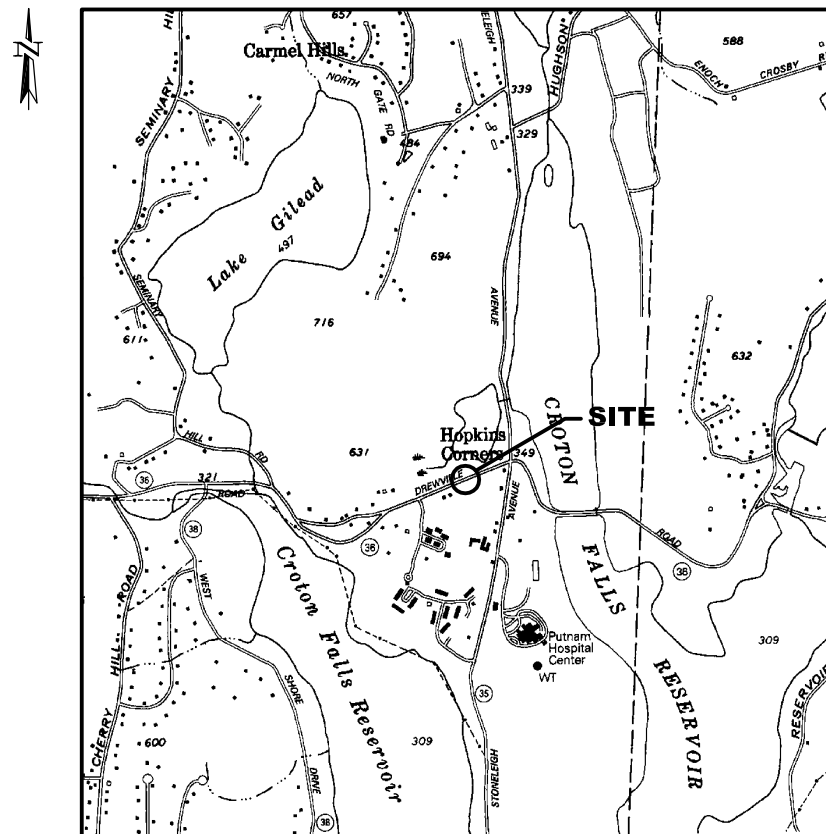
## FAD RELATED STORMWATER CONTROL DREWVILLE ROAD SITE PUTNAM COUNTY, NY

### CONTRACT CRO-420

JULY 2015

WARNING  
CONTRACT DRAWINGS  
NOT TO SCALE

DRAWING CONVERTED FROM THEIR ORIGINAL COMPUTER AIDED DRAFTING AND DESIGN (CADD) APPLICATION TO ADOBE ADOBE ACROBAT PORTABLE DOCUMENT FORMAT (PDF) MAY EXPERIENCE SCALING INACCURACIES, THEREFORE, THESE DRAWINGS SHALL BE CONSIDERED AS NOT TO SCALE (NTS).



DREWVILLE ROAD LOCATION MAP

| SHEET NO. | LIST OF DRAWINGS                           |
|-----------|--|
|           | COVER SHEET/INDEX                          |
| G-01      | GENERAL NOTES, SYMBOLS AND ABBREVIATIONS   |
| G-02      | MISCELLANEOUS DETAILS I                    |
| G-03      | MISCELLANEOUS DETAILS II                   |
| G-04      | MISCELLANEOUS DETAILS III                  |
| C-01      | EXISTING SITE PLAN                         |
| C-02      | SITE PLAN                                  |
| C-03      | STORMWATER TREATMENT SYSTEM GRADING PLAN   |
| C-04      | STORMWATER TREATMENT SYSTEM PROFILES I     |
| C-05      | STORMWATER TREATMENT SYSTEM PROFILES II    |
| C-06      | STORMWATER TREATMENT SYSTEM PROFILES III   |
| C-06A     | MAINTENANCE ACCESS ROAD PROFILE            |
| C-07      | STORMWATER DIVERSION DURING CONSTRUCTION   |
| C-08      | MAINTENANCE AND PROTECTION OF TRAFFIC PLAN |
| C-09      | EROSION AND SEDIMENT CONTROL PLAN          |
| C-10      | EROSION AND SEDIMENT CONTROL DETAILS       |
| C-11      | TREE REMOVAL PLAN                          |
| C-12      | TREE REMOVAL SCHEDULE                      |
| C-13      | LANDSCAPING PLAN                           |
| C-14      | LANDSCAPING SCHEDULES                      |
| C-15      | LANDSCAPING DETAILS                        |
| S-01      | DIVERSION BOX STRUCTURAL PLANS             |
| S-02      | DIVERSION BOX STRUCTURAL SECTIONS          |

WARNING  
IT IS A VIOLATION OF SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY WAY PLANS, SPECIFICATIONS, PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED, IF AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE, THE DATE, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

APPROVED FOR THE CITY OF NEW YORK

**GENERAL NOTES:**

- ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND REGULATIONS.
- THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE GENERAL ARRANGEMENT OF THE VARIOUS SYSTEMS AND APPROXIMATE RELATIVE LOCATIONS OF THE EQUIPMENT/DEVICES/ITEMS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THERE IS ADEQUATE SPACE AT THE LOCATION INDICATED FOR ALL THE EQUIPMENT/DEVICES/ITEMS PRIOR TO INSTALLATION OF SAME. ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL EXISTING ABOVEGROUND AND UNDERGROUND UTILITIES AND STRUCTURES AGAINST DAMAGE FROM EQUIPMENT MOBILIZATION AND/OR CONSTRUCTION OPERATIONS. NOTIFY ONE CALL UTILITY MARKOUT PRIOR TO EXCAVATION.
- LOCATION OF ALL PIPING, STRUCTURES AND PROPERTY LINES ARE BASED ON THE BEST AVAILABLE INFORMATION AND ARE NOT WARRANTED TO BE EXACT. IT IS NOT WARRANTED THAT ALL ARE SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION, AND FOR THE PROTECTION OF EXISTING PIPING AND STRUCTURES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL SUBSURFACE UTILITIES AND SERVICES WITHIN THE LIMIT OF WORK. THE LOCATION OF EXISTING SUBSURFACE UTILITIES AND STRUCTURES SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY LOCATIONS IN THE FIELD.
- ALL AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO THEIR ORIGINAL CONDITIONS AND TO SATISFACTION OF THE ENGINEER.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE ITSELF WITH THE SITE AND ALL REQUIREMENTS BEFORE BIDDING ON THE CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO BIDDING TO FAMILIARIZE ITSELF WITH THE NATURE AND EXTENT OF THE WORK AND LOCAL CONDITIONS THAT MAY AFFECT THE WORK TO BE PERFORMED AND THE EQUIPMENT, LABOR AND MATERIAL REQUIRED. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF COMPLETE PERFORMANCE UNDER THIS CONTRACT.
- PROVIDE HEAVY DUTY PLASTIC SECURITY FENCING TO PROTECT ALL OPEN EXCAVATIONS.
- ALL EXCAVATION SHALL BE DONE BY HAND WITHIN ONE FOOT OF EXISTING STRUCTURES, PIPING, AND OTHER UTILITIES.
- THE CONTRACTOR IS TO RETAIN A NYS PROFESSIONAL ENGINEER AND SUBMIT A PE STAMPED SHEETING DESIGN IN ACCORDANCE WITH SPECIFICATION SECTION 2250, 02461 AND 02316.
- ALL PROPOSED WORK SHALL BE DONE IN CONFORMANCE WITH THE LATEST STANDARDS OF THE NEW YORK CITY ENVIRONMENTAL PROTECTION AND THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION.
- CARE SHALL BE TAKEN NOT TO DAMAGE EXISTING UTILITIES OR STRUCTURES DURING CONSTRUCTION, ANY DAMAGE CAUSED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED TO THE SATISFACTION OF THE CITY BY THE CONTRACTOR AT NO EXTRA COST TO THE CITY.
- ALL MATERIALS ARE TO BE PROPERLY STORED AND SECURED AWAY FROM TRAFFIC AND PEDESTRIANS.
- THE CONTRACTOR MUST REMOVE ALL WASTE MATERIAL FROM ALL AREAS WHEN CONSTRUCTION IS COMPLETED.
- THE NORTHING AND EASTING LOCATIONS PROVIDED ARE BASED ON THE NEW YORK STATE PLANE COORDINATE SYSTEM NAD 1983.
- THE WATER TABLE VARIES SEASONALLY AND WITH RESERVOIR WATER ELEVATION. DEWATERING WILL BE REQUIRED DURING EXCAVATING, SEE SPECIFICATION 02240 - DEWATERING.

**GENERAL STRUCTURAL NOTES:**

**A. DESIGN CRITERIA**

- BUILDING CODE ..... BUILDING CODE OF NEW YORK STATE, LATEST EDITION
- NYCDEP GENERAL SPECIFICATIONS

**B. CONCRETE**

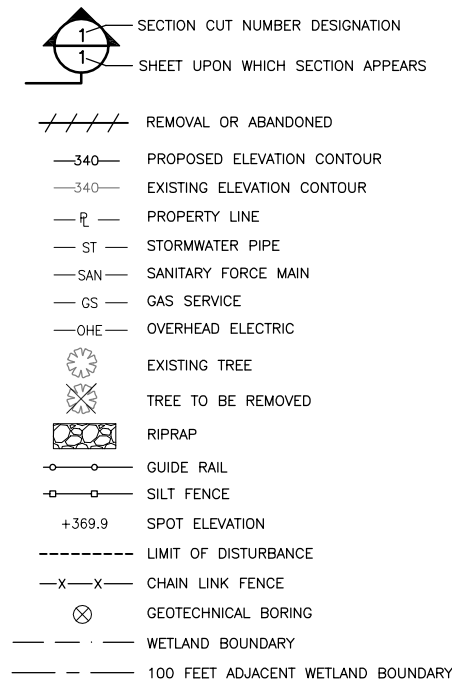
- ALL CONCRETE FOR STRUCTURES SHALL BE AIR-ENTRAINED STONE CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4000 POUNDS PER SQUARE INCH AT 28 DAYS.
- REINFORCEMENT BARS SHALL BE NEW BILLET STEEL CONFORMING TO A.S.T.M. DESIGNATION A615, GRADE 60, DEFORMED.
- WELDED WIRE FABRIC SHALL CONFORM TO A.S.T.M. DESIGNATION A185.
- WATERSTOPS SHALL BE POLYVINYL CHLORIDE, 6"x3/8" IN CONSTRUCTION JOINTS AND 9"x3/8" WITH CENTER BULB IN EXPANSION JOINTS UNLESS SHOWN OTHERWISE. PROVIDE BOND BREAKER AT EXPANSION JOINT UNLESS OTHERWISE NOTED.
- CONCRETE DESIGN IS IN CONFORMANCE WITH "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (LATEST A.C.I.)
- DETAIL, FABRICATE AND ERECT REINFORCEMENT BARS, INCLUDING BAR SUPPORTS, SPACERS, ETC. IN ACCORDANCE WITH "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT." (LATEST A.C.I.)
- NO MATERIAL OR CONSTRUCTION METHOD SHALL BE USED WHICH WILL ADD TASTE, ODOR OR TOXICITY TO THE WATER SUPPLY.
- CONCRETE COVER FOR REINFORCEMENT BARS SHALL CONFORM TO THE FOLLOWING, UNLESS INDICATED OTHERWISE ON THE DRAWINGS:
  - A. UNFORMED SURFACES IN CONTACT WITH GROUND ..... 3 INCHES
  - B. FORMED SURFACES IN CONTACT WITH GROUND OR EXPOSED TO WEATHER, AND ALL WALLS ..... 2 INCHES
  - C. ALL COLUMNS, BEAMS ..... 1-1/2 INCHES
  - D. EXTERIOR EXPOSURE, TOP OF SLABS ..... 1-1/2 INCHES
  - E. UNDERSIDE OF SLABS EXPOSED TO WATER ..... 1-1/2 INCHES
  - F. INTERIOR EXPOSURE TOP AND BOTTOM OF SLABS ..... 1 INCH
  - G. TOP OF SLABS EXPOSED TO WATER ..... 2 INCHES
- CHAMFER EXPOSED CONCRETE EDGES 3/4 INCH X 3/4 INCH UNLESS NOTED OTHERWISE.
- LATERAL LOADS SHALL NOT BE APPLIED TO ANY WALL PRIOR TO ACHIEVING THE 28 DAY CONCRETE COMPRESSIVE STRENGTH. ALL SUPPORTING FLOORS AND SLABS AT TOP OF WALLS MUST ALSO BE IN PLACE.

**SUGGESTED GENERAL CONSTRUCTION SEQUENCE:**

- INSTALL TRAFFIC CONTROL DEVICES, TREE PROTECTION AND ALL EROSION AND SEDIMENT CONTROL MEASURES, CONSTRUCTION STAGING AREA.
- CUT AND REMOVE FROM THE SITE, ALL TREES SHOWN ON THE TREE REMOVAL PLAN.
- CLEAR AND GRUB ALL VEGETATION WITHIN THE WORK AREA THAT WOULD INTERFERE WITH THE CONSTRUCTION WORK.
- INSTALL RIPRAP LINED BYPASS CHANNEL AND DISCHARGE CHANNEL.
- REMOVE SECTIONS OF STONE WALL REQUIRED TO INSTALL STORMWATER DIVERSION DURING CONSTRUCTION. STABILIZE WALL ENDS AS REQUIRED.
- INSTALL TEMPORARY SAND BAG DIVERSION AND ANY OTHER PROTECTION AS REQUIRED FOR THE TEMPORARY STORMWATER DIVERSION DURING CONSTRUCTION. THE LOCATION OF THE SAND BAG DIVERSION CAN BE MODIFIED BASED ON FIELD CONDITIONS AND REQUIREMENTS FOR CONSTRUCTION AS APPROVED BY NYCDEP.
- INSTALL EROSION CONTROL BLANKET OVER ALL DISTURBED AREAS WHICH DO NOT NEED TO BE ACCESSIBLE FOR ACTIVE CONSTRUCTION OPERATIONS. SOW GRASS SEED ON ALL DISTURBED AREAS AND INSTALL ROLLED EROSION CONTROL MAT (RECM).
- PERFORM SITE GRADING AND CONSTRUCT ACCESS ROADWAY, CHANNELS, FOREBAY AND MICROPOOL. INSTALL DIVERSION BOX, WEIR STRUCTURE, HEADWALLS, SPILLWAYS, OUTLET AND LOW FLOW ORIFICE.
- WORK ON THE CHANNEL ALONG DREWVILLE ROAD SHALL BE DONE DURING DRY PERIODS. TEMPORARILY PROTECT WORK IN THE CHANNELS DURING WET WEATHER AS REQUIRED.
- INSTALL ALL LANDSCAPING TO MEET THE REQUIREMENTS OF THE LANDSCAPING PLAN AND SCHEDULE.
- AFTER THE STORMWATER TREATMENT SYSTEM IS ACCEPTED BY NYCDEP, REMOVE ALL COMPONENTS OF THE TEMPORARY STORMWATER DIVERSION SYSTEM, PROPERLY DISPOSE OF ALL COMPONENTS, RESTORE STONE WALL AND RESTORE DISTURBED AREAS. RIPRAP LINED BYPASS CHANNEL NO. 1 AND NO. 2 TO REMAIN IN PLACE AFTER CONSTRUCTION IS COMPLETE.

**SYMBOLS AND ABBREVIATIONS**

|          |  |       |                                  |
|----------|--|-------|----------------------------------|
| ACI      | AMERICAN CONCRETE INSTITUTE                | NAD   | NORTHERN AMERICAN DATUM          |
| ASTM     | AMERICAN SOCIETY FOR TESTING AND MATERIALS | NAVD  | NORTHERN AMERICAN VERTICAL DATUM |
| AVE      | AVENUE                                     | NO    | NUMBER                           |
| CL       | CENTERLINE ELEVATION                       | NTS   | NOT TO SCALE                     |
| CMP      | CORRUGATED METAL PIPE                      | OC    | ON CENTER                        |
| CONT     | CONTINUOUS                                 | PE    | PLAIN END                        |
| D, Ø     | DIAMETER                                   | PVC   | POLY VINYL CHLORIDE              |
| DI       | DUCTILE IRON                               | ROW   | RIGHT OF WAY                     |
| E        | EAST, EASTERN                              | SCH   | SCHEDULE                         |
| EA       | EACH                                       | SF    | SQUARE FEET                      |
| EL, ELEV | ELEVATION                                  | SQ    | SQUARE                           |
| EXP      | EXPANSION                                  | SS    | STAINLESS STEEL                  |
| FT       | FOOT                                       | T/    | TOP                              |
| H        | HEIGHT                                     | VERT  | VERTICAL                         |
| HDPE     | HIGH DENSITY POLYETHYLENE                  | VIF   | VERIFY IN FIELD                  |
| INV EL   | INVERT ELEVATION                           | W     | WIDTH                            |
| L        | LENGTH                                     | WS EL | WATER SURFACE ELEVATION          |
| LOD      | LIMIT OF DISTURBANCE                       | YR    | YEAR                             |
| MAX      | MAXIMUM                                    |       |                                  |
| MJ       | MECHANICAL JOINT                           |       |                                  |
| MIL      | MILLIMETER                                 |       |                                  |
| MIN      | MINIMUM                                    |       |                                  |
| MUTCD    | MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES  |       |                                  |
| N        | NORTH, NORTHERN                            |       |                                  |



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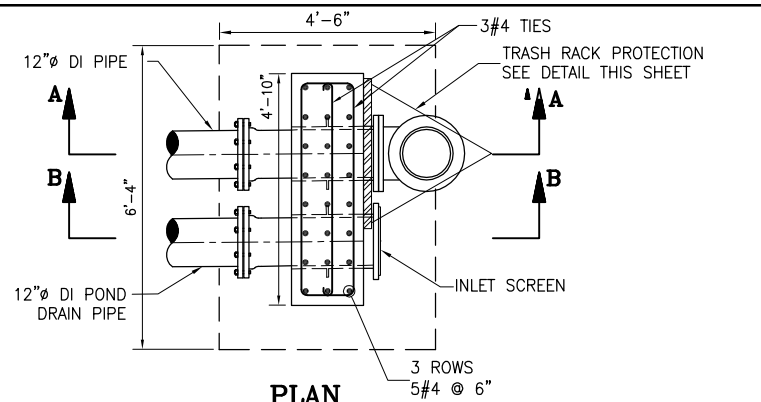
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**HDR • Gannett Fleming**  
A Joint Venture

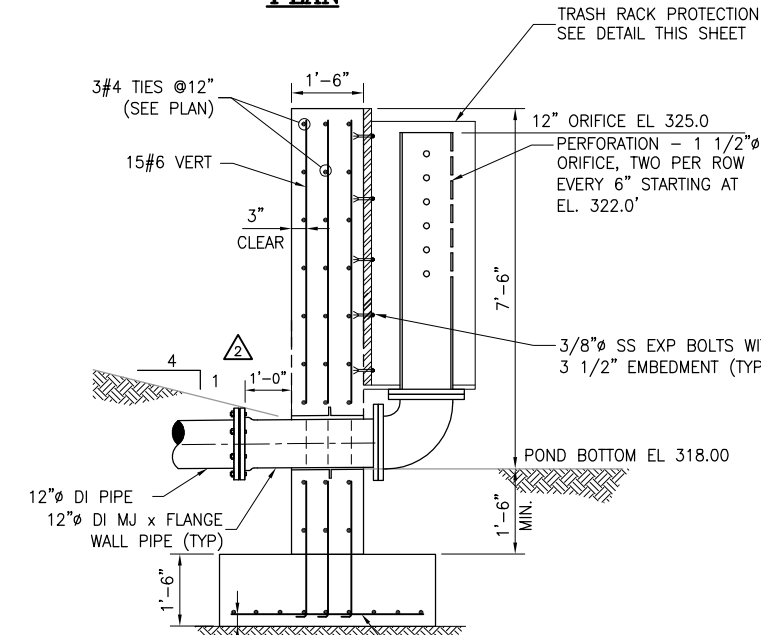
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**DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
BUREAU OF WATER SUPPLY  
CONTRACT CRO-420  
FAD RELATED STORMWATER CONTROL  
DREWVILLE ROAD, NEW YORK

TITLE **GENERAL NOTES, SYMBOLS AND ABBREVIATIONS**

SHEET No. **G-01**



**PLAN**

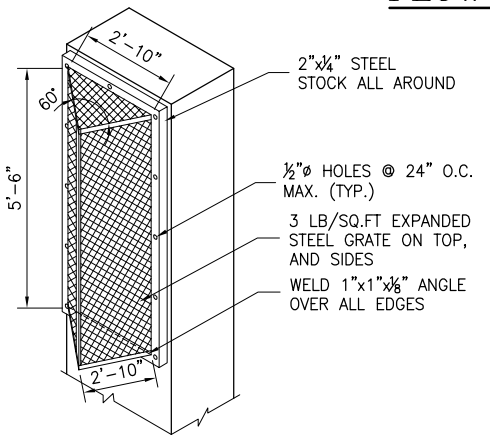
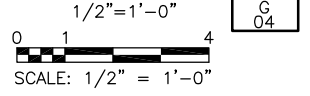


**SECTION A-A**

**NOTES:**

1. CONCRETE POST AND FOOTING TO BE CAST IN PLACE.
2. INLET SCREEN SHALL BE 1" SQUARE, 316 SS WIRE MESH, 0.120" WIRE DIAMETER SECURED WITH FILLER FLANGE.
3. EXTEND HDPE LINER UP HEADWALL, ANCHOR WITH SS STRAPS FASTENED 6" OC, PROVIDE STRAPS EVERY 12" VERTICAL CAULK TOP OF LINER.

**OUTLET RISER AND LOW FLOW ORIFICE DETAIL**

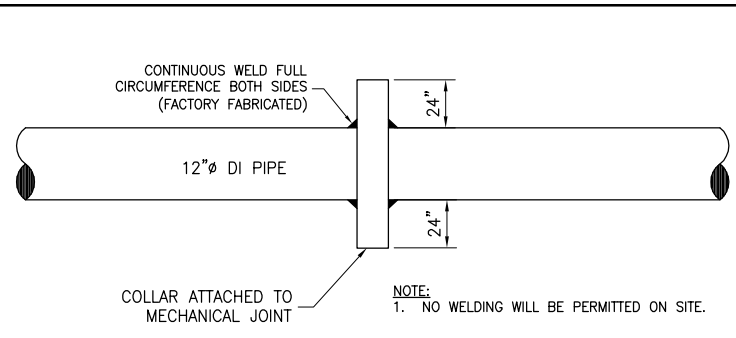


**TRASH RACK PROTECTION FOR LOW FLOW ORIFICE**

NTS

**NOTES:**

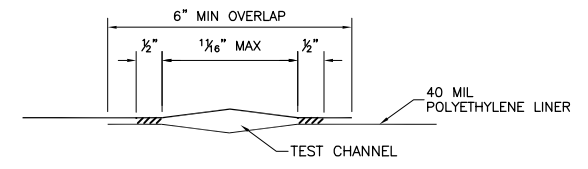
1. TRASH RACK TO BE CENTERED OVER OUTLET PIPE.
2. STEEL TO CONFORM TO ASTM A-36.
3. ALL SURFACES TO BE COATED WITH ZRC COLD GALVANIZED COMPOUND AFTER WELDING.
4. TRASH RACK TO BE ASSEMBLED PRIOR TO DELIVERY. NO WELDING TO BE PERFORMED ON SITE.



**ANTI-SEEP COLLAR DETAIL**

NTS

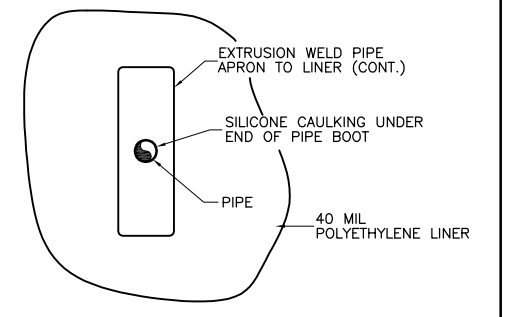
NOTE:  
1. NO WELDING WILL BE PERMITTED ON SITE.



**DOUBLE FUSION WELD**

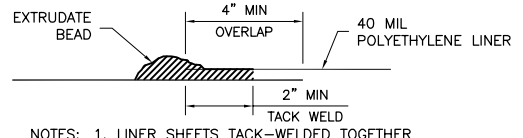
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NOTES:  
1. DOUBLE FUSION WELDING SHALL BE PRIMARY SEAMING TECHNIQUE.  
2. AIR PRESSURE TEST SHALL BE THE NON-DUCTRUCTIVE SEAM TEST METHOD FOR DOUBLE FUSION WELD.



**PIPE PENETRATION PLAN**

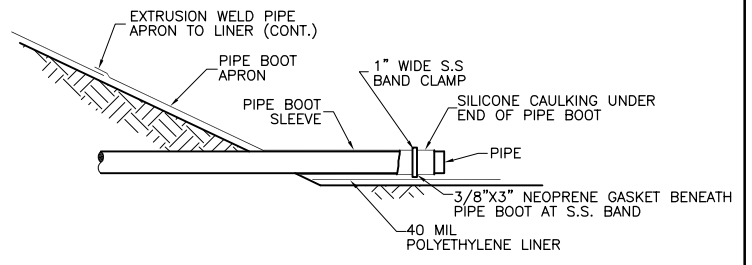
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**EXTRUSION WELD**

NTS

NOTES:  
1. LINER SHEETS TACK-WELDED TOGETHER AT OVERLAP PRIOR TO EXTRUDING.  
2. EXTRUSION WELDING USED FOR DETAIL WORK AND REPAIR WORK ONLY.  
3. VACUUM BOX TEST SHALL BE THE NON-DUCTRUCTIVE SEAM TEST METHOD FOR EXTRUSION WELD.

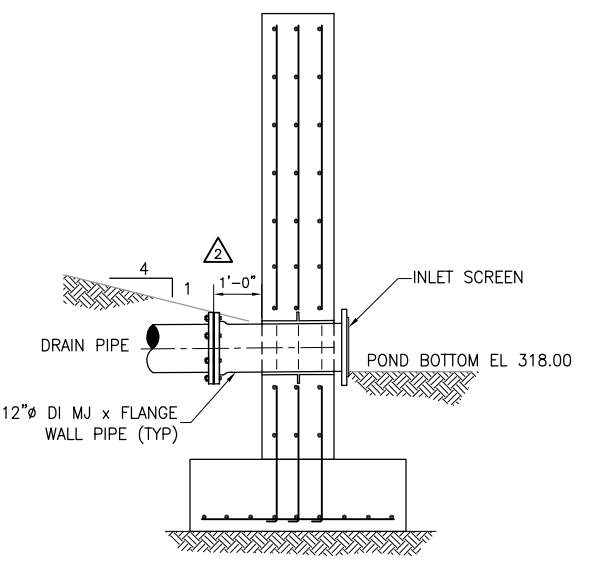


**TYPICAL PIPE PENETRATION SECTION**

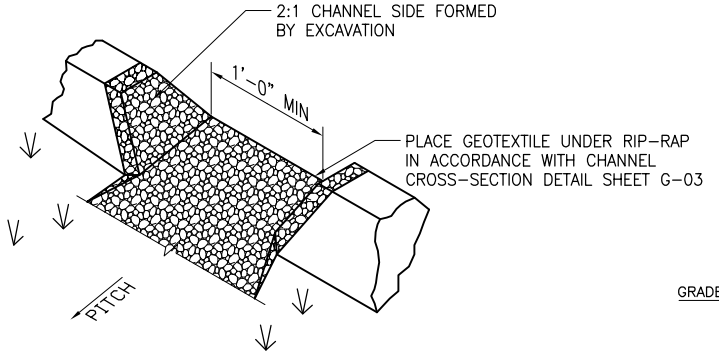
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**NOTES:**

1. HEADWALL AND GEOTEXTILE ABOVE AND BELOW LINER NOT SHOWN FOR CLARITY

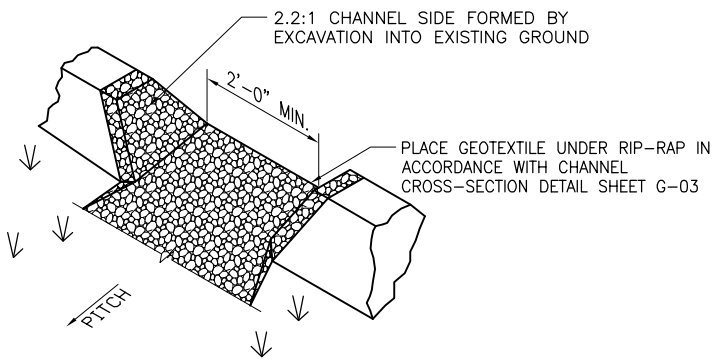


**SECTION B-B**



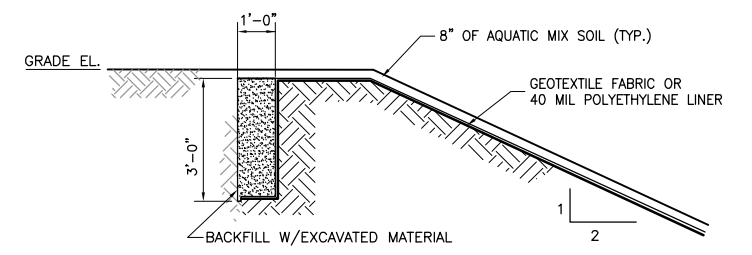
**FOREBAY SPILLWAY**

NTS



**MICROPOOL EMERGENCY SPILLWAY**

NTS



**TYPICAL ANCHOR TRENCH DETAIL FOR GEOTEXTILE OR POLYETHYLENE LINER**

NTS

**NOTES:**

1. THE ABOVE DIMENSIONS ARE MINIMUM STANDARDS; ACTUAL DISTANCES ARE TO BE DETERMINED BASED ON SITE SPECIFIC CRITERIA.
2. BACKFILL SHOULD BE SUFFICIENTLY COMPACTED TO PREVENT GEOTEXTILE AND LINER PULL OUT.

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| No.       | DESCRIPTION                     | DATE  | BY |
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| REVISIONS |                                 |       |    |

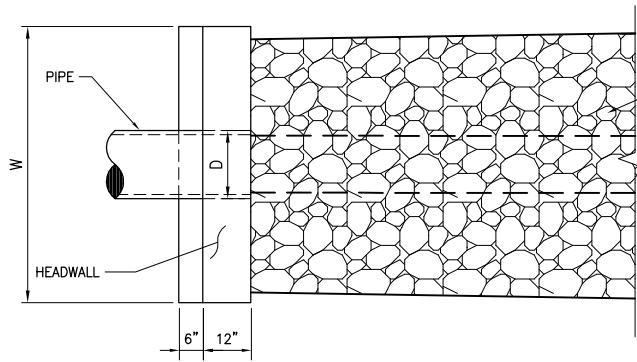
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| SH       | JUL. 2015  |



PROJECT  
**CITY OF NEW YORK**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
BUREAU OF WATER SUPPLY  
CONTRACT CRO-420  
FAD RELATED STPRM WATER CONTROL  
DREWVILLE ROAD, NEW YORK

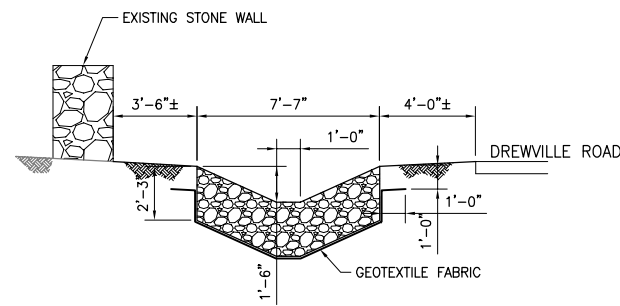
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**MISCELLANEOUS DETAILS I**

SHEET No.  
**G-02**

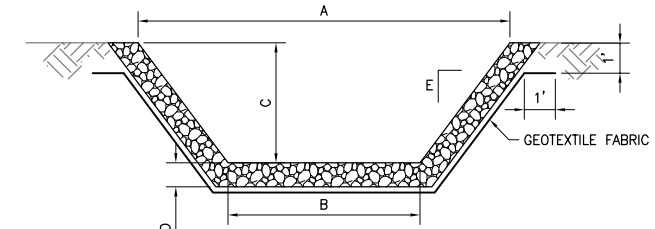


**PLAN**  
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SEE RIPRAP CHANNEL CROSS SECTION TABLE THIS SHEET FOR DIMENSIONS

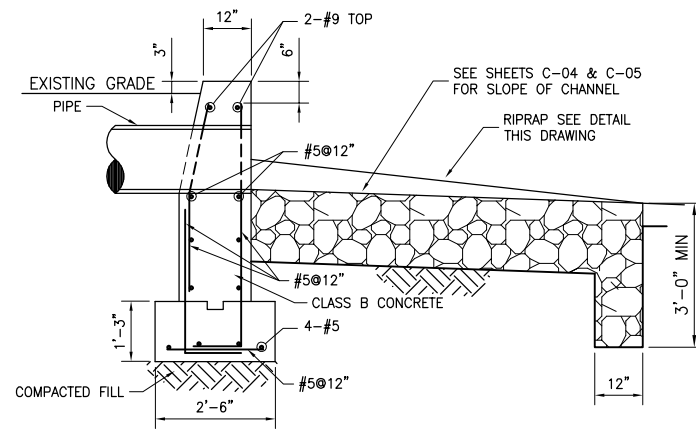


**INLET CHANNEL SECTION ON DREWVILLE ROAD**  
NTS



| CHANNEL                              | A - TOP WIDTH | B - BOTTOM WIDTH | C - DEPTH | D - RIPRAP DEPTH | E - SIDE SLOPE | D <sub>10</sub> RIPRAP SIZE (IN) | D <sub>50</sub> RIPRAP SIZE (IN) | D <sub>85</sub> RIPRAP SIZE (IN) | D <sub>100</sub> RIPRAP SIZE (IN) |
|--------------------------------------|---------------|------------------|-----------|------------------|----------------|----------------------------------|----------------------------------|----------------------------------|-----------------------------------|
| INLET CHANNEL                        | 7.60'         | 1'-0"            | 1'-6"     | 2'-3"            | 2.2:1          | 4                                | 8                                | 10                               | 12                                |
| INLET CHANNEL AT CULVERT OUTLET      | 7.60'         | 1'-0"            | 1'-6"     | 4'-6"            | 2.2:1          | 12                               | 25                               | 32                               | 36                                |
| BYPASS CHANNEL NO. 1                 | 10'           | 2'-0"            | 2'-0"     | 1'-6"            | 2:1            | 4                                | 8                                | 10                               | 12                                |
| FOREBAY INLET CHANNEL                | 7.60'         | 1'-0"            | 1'-6"     | 1'-6"            | 2.2:1          | 4                                | 8                                | 10                               | 12                                |
| MICROPOOL INLET CHANNEL              | 6.40'         | 2'-0"            | 1'-0"     | 1'-6"            | 2.2:1          | 4                                | 8                                | 10                               | 12                                |
| MICROPOOL EMERGENCY SPILLWAY CHANNEL | 5'            | 1'-0"            | 1'-0"     | 1'-6"            | 2:1            | 4                                | 8                                | 10                               | 12                                |
| BYPASS CHANNEL NO. 2                 | 12'           | 4'-0"            | 2'-0"     | 1'-6"            | 2:1            | 4                                | 8                                | 10                               | 12                                |
| DISCHARGE CHANNEL                    | 16'           | 4'-0"            | 2'-0"     | 1'-6"            | 3:1            | 4                                | 8                                | 10                               | 12                                |

**RIPRAP CHANNEL CROSS SECTION AND TABLE**  
NTS



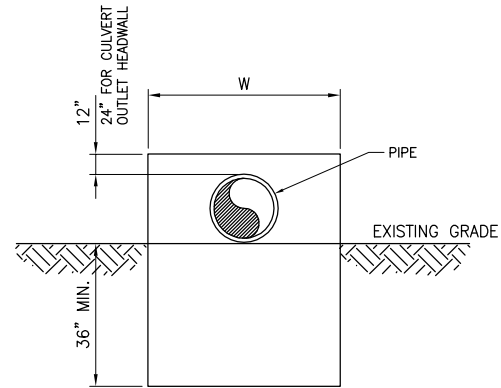
**TYPICAL SECTION**  
NTS

| TABLE OF DIMENSIONS    |      |       |
|------------------------|------|-------|
|                        | D    | W     |
| SITE ENTRANCE HEADWALL | 24"Ø | 6'-0" |
| MICROPOOL OUTLET       | 12"Ø | 4'-0" |

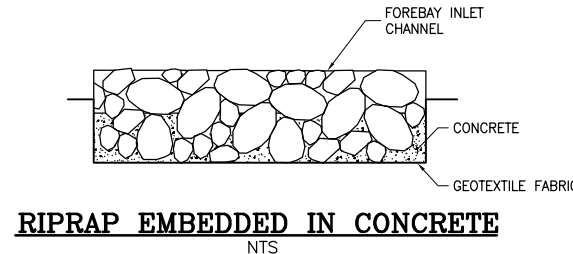
**TYPICAL HEADWALL DETAIL**  
NTS

**NOTES:**

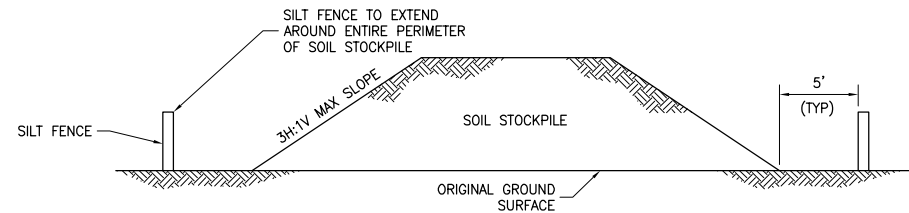
- SEE RIPRAP CHANNEL CROSS SECTION TABLE THIS SHEET FOR ACTUAL CHANNEL AND RIPRAP DIMENSIONS.
- RIPRAP SHALL COMPLY WITH REQUIREMENTS OF NEW YORK GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL
- AT THE MICROPOOL HEADWALL THE CHANNEL IS WIDER THAN THE HEADWALL. PLACE CHANNEL RIPRAP ADJACENT TO HEADWALL.
- GEOTEXTILE SHALL BE NON WOVEN COMPOSED OF 100% POLYPROPYLENE INERT TO BIOLOGICAL DEGRADATION. GEOTEXTILE SHALL MEET OR EXCEED AASHTO M288-06 STANDARDS FOR STABILIZATION, CLASS 1 NON WOVEN GEOTEXTILE.



**ELEVATION**  
NTS



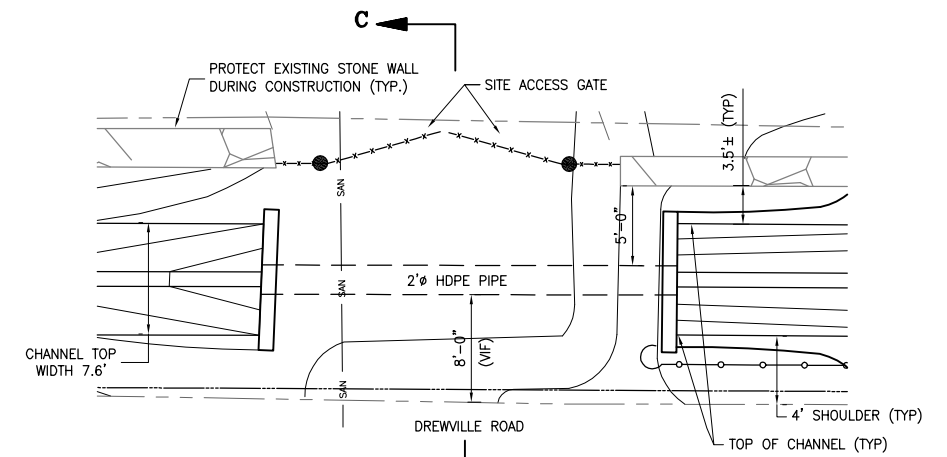
**RIPRAP EMBEDDED IN CONCRETE**  
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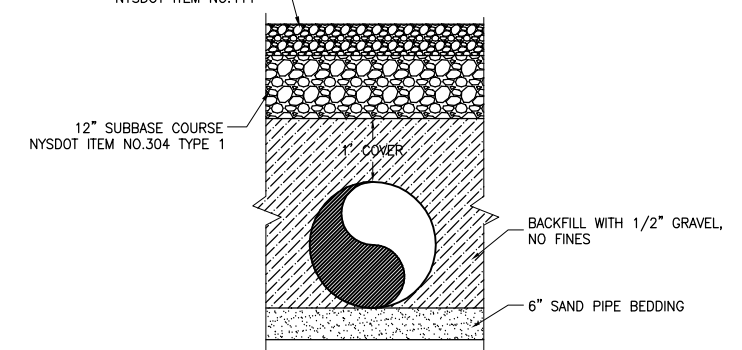
**TEMPORARY TOPSOIL STOCKPILE DETAIL**  
NTS

**NOTES:**

- STOCKPILE AREA SHALL BE DRY AND STABLE. AREA SHALL BE APPROVED BY THE ENGINEER.
- STOCKPILE SHALL BE COVERED WITH IMPERMEABLE FABRIC DURING NON-WORKING HOURS AND DURING PERIODS OF NO CONSTRUCTION ACTIVITY.
- MAXIMUM STOCKPILE HEIGHT SHALL BE DICTATED BY THE MAXIMUM SLOPE AND FOOTPRINT AVAILABLE AT THE STOCKPILE LOCATION.
- INSPECTION OF THE SILT FENCES SHALL BE ONCE PER DAY AND AFTER RAIN EVENTS. REPAIR OR REPLACEMENT SHALL BE MAID PROMPTLY AS NEEDED, AND AS DIRECTED BY THE ENGINEER.
- SEDIMENT TRAPPED BY THE FENCES SHALL BE REMOVED AND PROPERLY DISPOSED OF WHENEVER SIGNIFICANT ACCUMULATION OCCURS, AND AS DIRECTED BY THE ENGINEER.
- SILT FENCES SHALL BE MAINTAINED IN PLACE UNTIL SOIL STOCKPILE HAS BEEN ELIMINATED AND SHALL BE REMOVED ONLY WHEN DIRECTED BY THE ENGINEER.



**PLAN**  
NTS



**SECTION C-C**  
NTS

**DREWVILLE ROAD CULVERT DETAIL**  
NTS

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| No.       | DESCRIPTION                     | DATE  | BY |
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| REVISIONS |                                 |       |    |

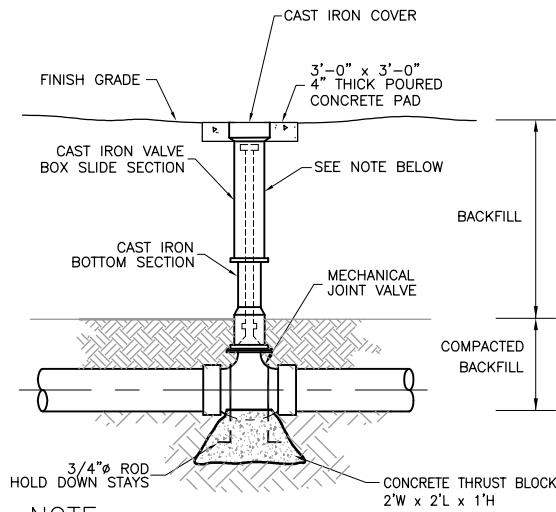
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| SH       | DATE JUL. 2015     |



PROJECT **CITY OF NEW YORK**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
BUREAU OF WATER SUPPLY  
CONTRACT CRO-420  
FAD RELATED STPRM WATER CONTROL  
DREWVILLE ROAD, NEW YORK

TITLE **MISCELLANEOUS DETAILS II**

SHEET No. **G-03**

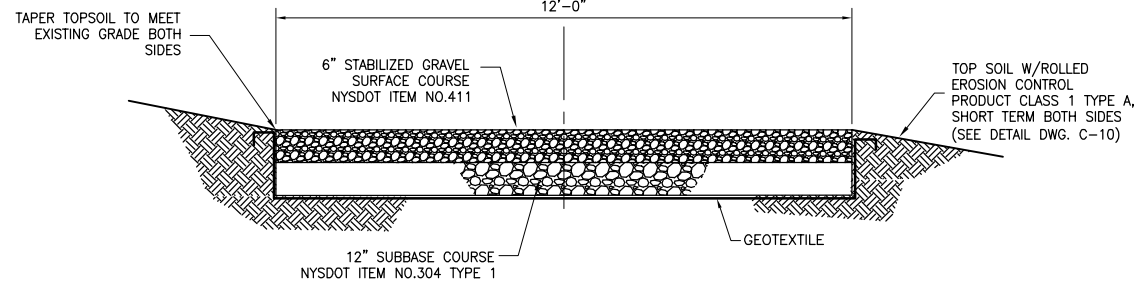


**NOTE:**  
 EXTENSION ROD W/2" OPERATING NUT 6" BELOW GRADE REQUIRED WHEN VALVE OPERATING NUT IS 4'-0" BELOW GRADE OR GREATER

**BURIED DUCTILE IRON GATE VALVE**

**DETAIL**

NTS

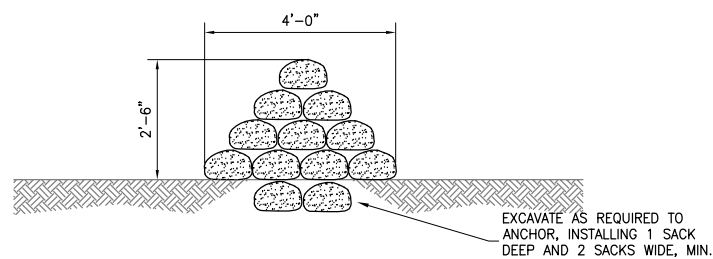


**GRAVEL ROADWAY TYPICAL SECTION**

NTS

**NOTES:**

1. GEOTEXTILE SHALL BE WOVEN COMPOSED OF 100% HIGH-TENACITY, SILT-FILM POLYPROPYLENE YARNS INERT TO BIOLOGICAL DEGRADATION. GEOTEXTILE SHALL MEET OR EXCEED AASHTO M288-06 STANDARDS FOR SEPERATION AND STABILIZATION, CLASS 1, WOVEN GEOTEXTILE.
2. ACCESS ROAD CONSTRUCTION SHALL BE IN ACCORDANCE WITH NYSDOT SPECIFICATIONS, LATEST EDITION
3. COMPACT BENEATH GEOTEXTILE TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557.

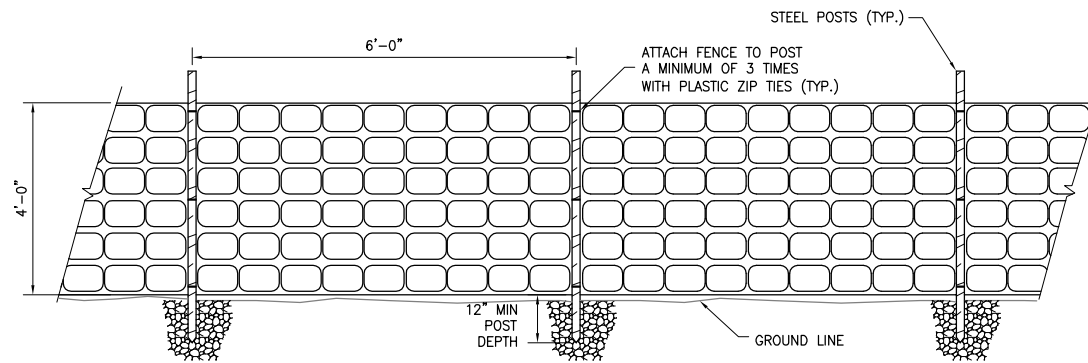


**SANDBAG BERM DETAIL**

NTS

**NOTES:**

1. MAINTAIN BERM THROUGHOUT BYPASS OPERATIONS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING AND MODIFYING THE SAND BAG BERM AS NEEDED. DIMENSIONS SHOWN ARE ONLY INTENDED TO CONVEY THE CONSTRUCTION CONCEPT.

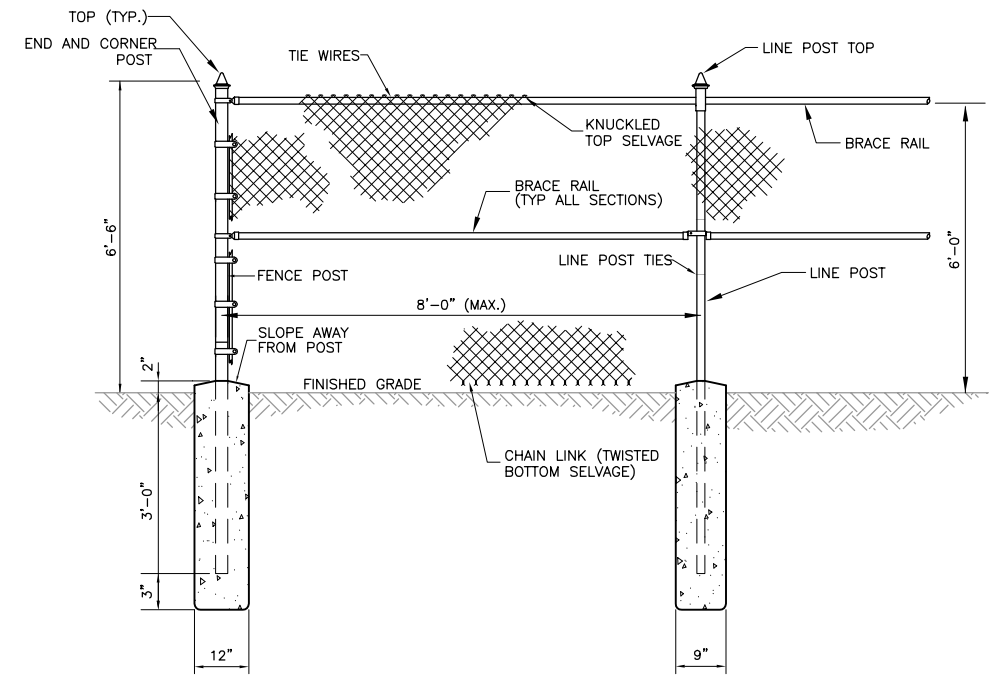


**HEAVY DUTY PLASTIC SECURITY FENCE**

NTS

**NOTES:**

1. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN THROUGHOUT THE DURATION OF THE WORK ORANGE HEAVY DUTY PLASTIC SECURITY FENCING AT LOCATIONS SHOWN ON THE CONTRACT DRAWINGS.

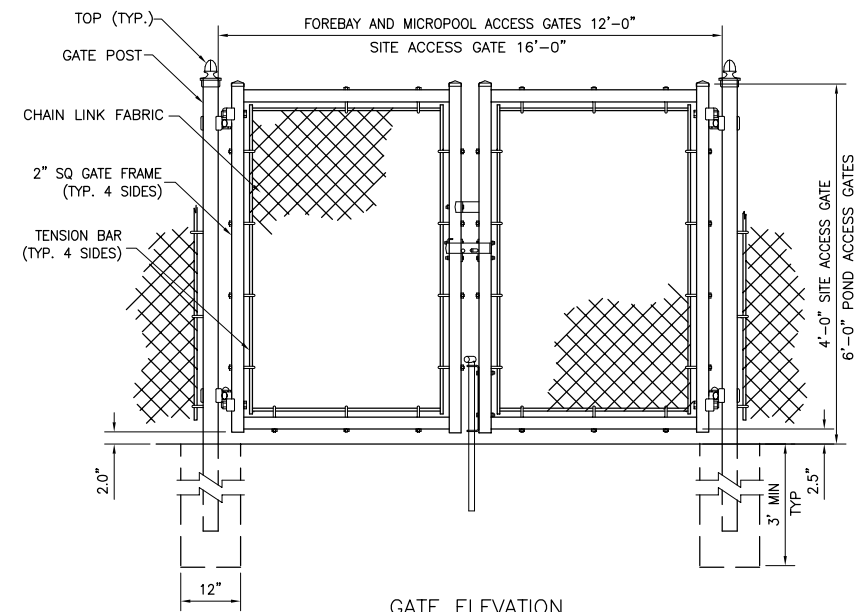


**CHAIN LINK FENCE DETAIL**

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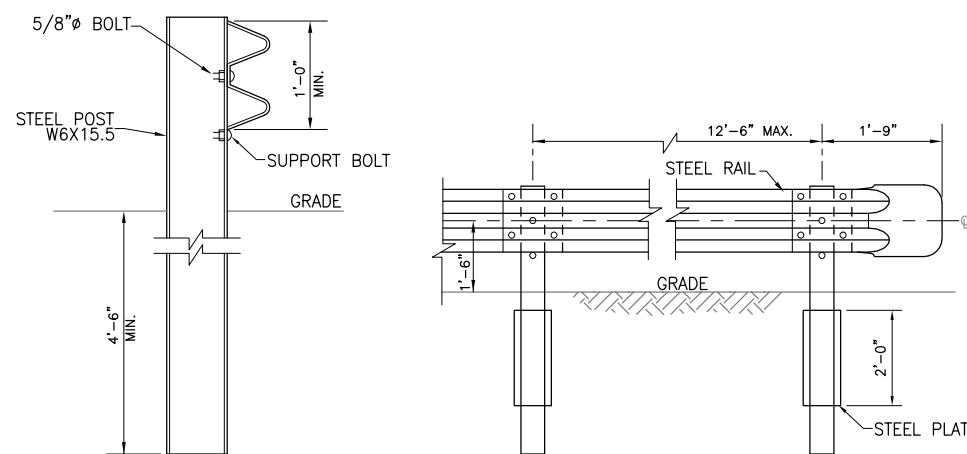
**GATE PLAN**



**GATE ELEVATION**

**DOUBLE LEAF CHAIN LINK GATE DETAIL**

NTS



**TYP. SECTION**

**ELEVATION**

**GUARDRAIL AND RAIL TERMINAL DETAIL**

NTS

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**WARNING**  
 IT IS A VIOLATION OF SECTION 2209.2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY WAY PLANS, SPECIFICATIONS, PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED, IF AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE, THE DATE, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

| No.       | DESCRIPTION      | DATE  | BY |
|-----------|------------------|-------|----|
| 2         | BEDC COMMENTS    | 2/15  | SH |
| 1         | GENERAL REVISION | 10/11 | EL |
| REVISIONS |                  |       |    |

| DESIGNED | SCALE | DATE       |
|----------|-------|------------|
| LK       | NTS   |            |
| MS       |       | 48649.W012 |
| SH       |       | JUL. 2015  |



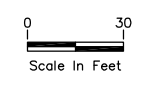
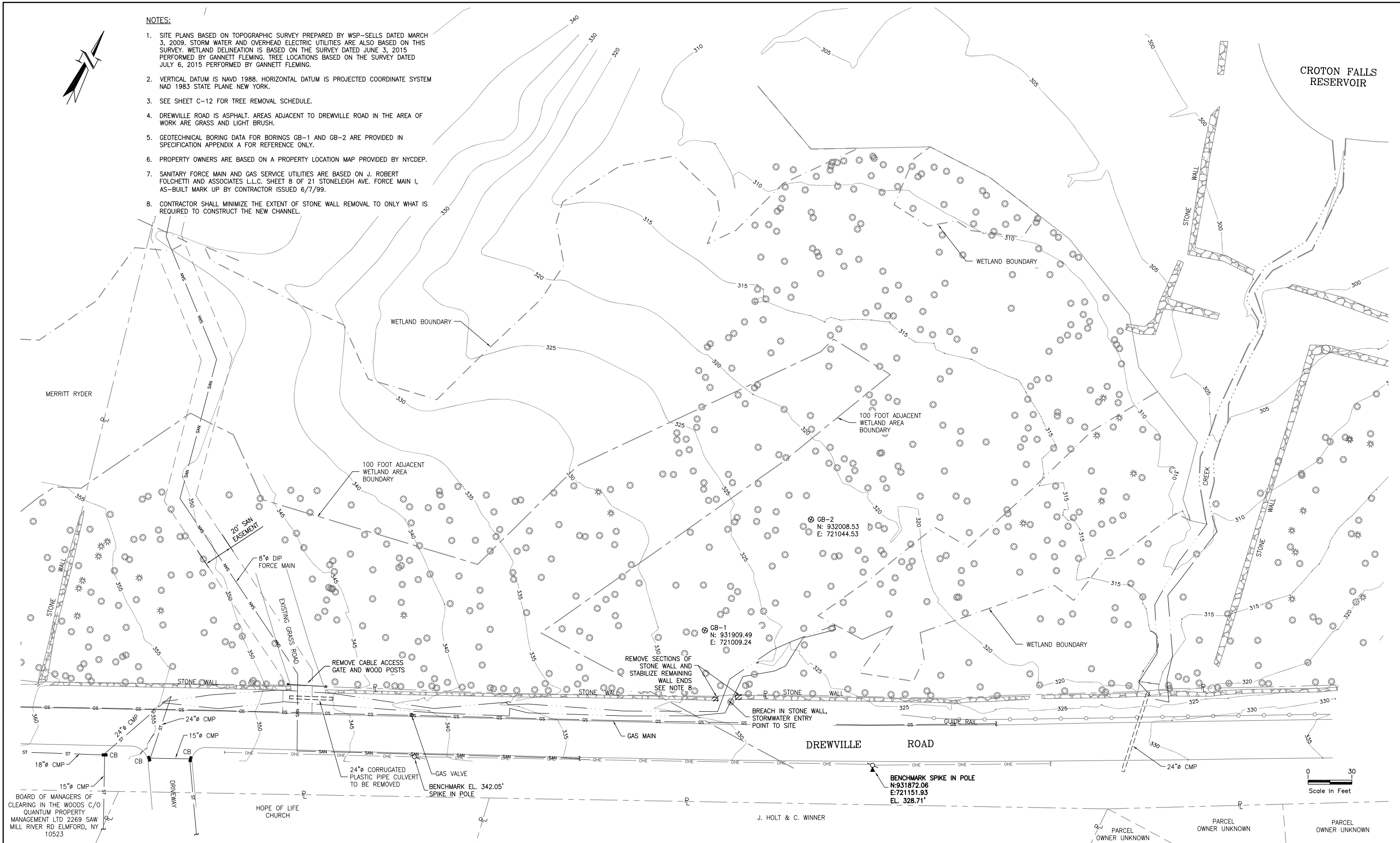
PROJECT  
**CITY OF NEW YORK**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
 BUREAU OF WATER SUPPLY  
 CONTRACT CRO-420  
 FAD RELATED STPRM WATER CONTROL  
 DREWVILLE ROAD, NEW YORK

TITLE  
**MISCELLANEOUS DETAILS III**

SHEET No.  
**G-04**

**NOTES:**

1. SITE PLANS BASED ON TOPOGRAPHIC SURVEY PREPARED BY WSP-SELLS DATED MARCH 3, 2009. STORM WATER AND OVERHEAD ELECTRIC UTILITIES ARE ALSO BASED ON THIS SURVEY. WETLAND DELINEATION IS BASED ON THE SURVEY DATED JUNE 3, 2015 PERFORMED BY GANNETT FLEMING. TREE LOCATIONS BASED ON THE SURVEY DATED JULY 6, 2015 PERFORMED BY GANNETT FLEMING.
2. VERTICAL DATUM IS NAVD 1988. HORIZONTAL DATUM IS PROJECTED COORDINATE SYSTEM NAD 1983 STATE PLANE NEW YORK.
3. SEE SHEET C-12 FOR TREE REMOVAL SCHEDULE.
4. DREWVILLE ROAD IS ASPHALT. AREAS ADJACENT TO DREWVILLE ROAD IN THE AREA OF WORK ARE GRASS AND LIGHT BRUSH.
5. GEOTECHNICAL BORING DATA FOR BORINGS GB-1 AND GB-2 ARE PROVIDED IN SPECIFICATION APPENDIX A FOR REFERENCE ONLY.
6. PROPERTY OWNERS ARE BASED ON A PROPERTY LOCATION MAP PROVIDED BY NYCDEP.
7. SANITARY FORCE MAIN AND GAS SERVICE UTILITIES ARE BASED ON J. ROBERT FOLCHETTI AND ASSOCIATES L.L.C. SHEET 8 OF 21 STONELEIGH AVE. FORCE MAIN I, AS-BUILT MARK UP BY CONTRACTOR ISSUED 6/7/99.
8. CONTRACTOR SHALL MINIMIZE THE EXTENT OF STONE WALL REMOVAL TO ONLY WHAT IS REQUIRED TO CONSTRUCT THE NEW CHANNEL.



BOARD OF MANAGERS OF CLEARING IN THE WOODS C/O QUANTUM PROPERTY MANAGEMENT LTD 2269 SAW MILL RIVER RD ELMFORD, NY 10523

J. HOLT & C. WINNER

PARCEL OWNER UNKNOWN  
PARCEL OWNER UNKNOWN  
PARCEL OWNER UNKNOWN

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| No.       | DESCRIPTION      | DATE  | BY |
|-----------|------------------|-------|----|
| 2         | BEDC COMMENTS    | 2/15  | SH |
| 1         | GENERAL REVISION | 10/11 | EL |
| REVISIONS |                  |       |    |

| DESIGNED | SCALE      |
|----------|------------|
| LK       | 1" = 30'   |
| MS       | 48649.W012 |
| SH       | JUL. 2015  |



PROJECT  
**CITY OF NEW YORK**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
BUREAU OF WATER SUPPLY  
CONTRACT CRO-420  
FAD RELATED STORMWATER CONTROL  
DREWVILLE ROAD, NEW YORK

TITLE  
**EXISTING SITE PLAN**

SHEET No.  
**C-01**

07/21/15 9:05am FILE= K:\PROJECTS\48000\48649\W0-12\Drawings\Design\2014\C-01\_Ext1\_Site Plans\Drawings\Ext1\_Site\_48649\_TITLE.SHT

**CENTERLINE BYPASS CHANNEL CURVE DATA**

| POINT ON C | NORTH      | EAST      |
|------------|------------|-----------|
| B1         | 932.008.33 | 721053.24 |
| B2         | 931009.67  | 721056.01 |
| B3         | 932017.45  | 721068.69 |
| B4         | 932027.58  | 721079.58 |
| B5         | 932034.04  | 721084.84 |
| B6         | 932041.03  | 721088.28 |
| B7         | 932056.55  | 721094.26 |
| B8         | 932076.76  | 721101.11 |
| B9         | 932086.61  | 721105.57 |
| B10        | 932094.38  | 721113.09 |
| B11        | 932104.57  | 721125.07 |
| B12        | 932118.35  | 721132.63 |
| B13        | 932129.54  | 721135.14 |
| B14        | 932140.98  | 721135.87 |
| B15        | 932155.31  | 721134.88 |
| B16        | 932169.45  | 721132.32 |
| B17        | 932189.61  | 721127.51 |
| B18        | 932208.69  | 721119.44 |
| B19        | 932221.71  | 721110.16 |
| B20        | 932231.59  | 721097.58 |

**CENTERLINE ROAD CURVE DATA**

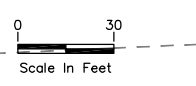
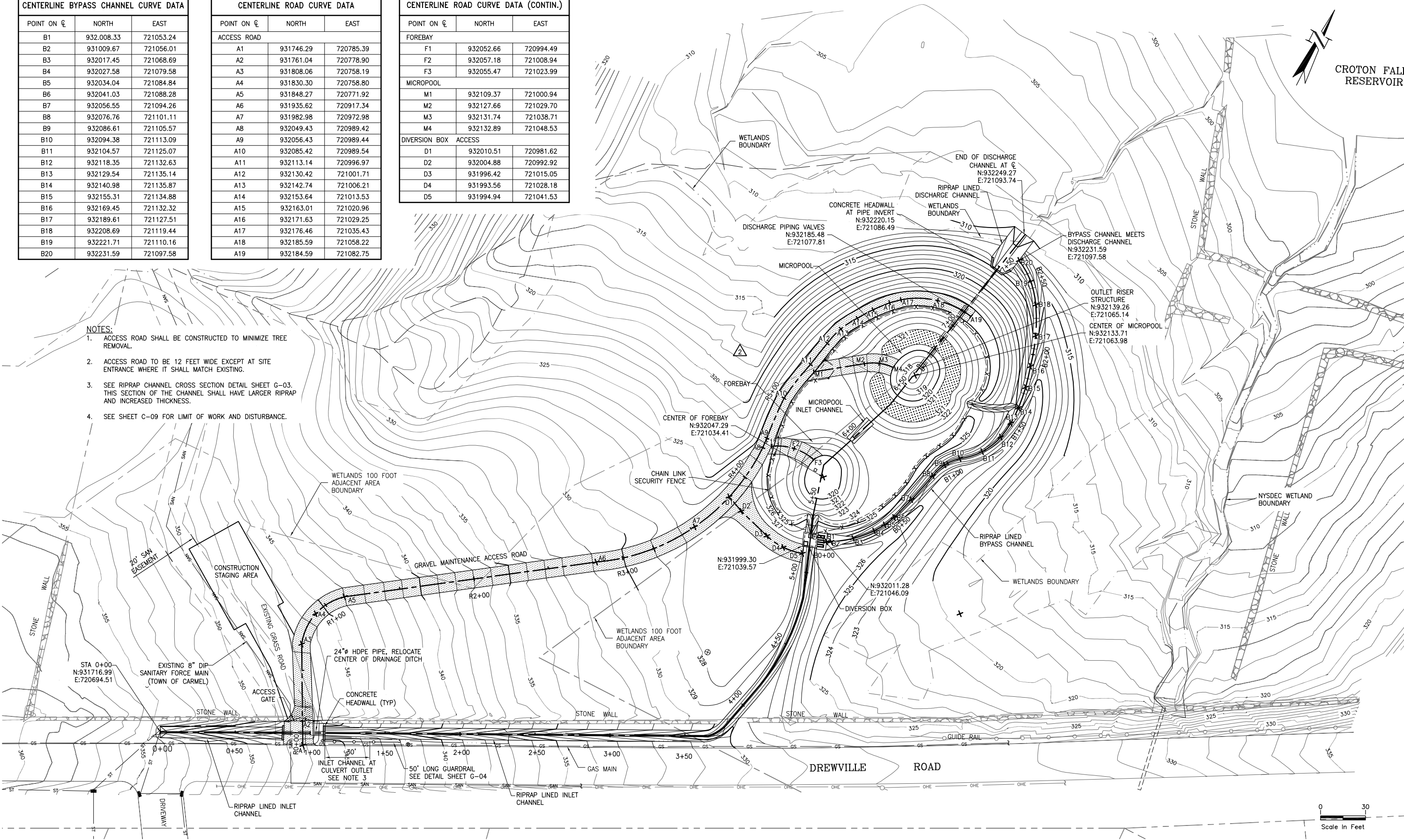
| POINT ON C  | NORTH     | EAST      |
|-------------|-----------|-----------|
| ACCESS ROAD |           |           |
| A1          | 931746.29 | 720785.39 |
| A2          | 931761.04 | 720778.90 |
| A3          | 931808.06 | 720758.19 |
| A4          | 931830.30 | 720758.80 |
| A5          | 931848.27 | 720771.92 |
| A6          | 931935.62 | 720917.34 |
| A7          | 931982.98 | 720972.98 |
| A8          | 932049.43 | 720989.42 |
| A9          | 932056.43 | 720989.44 |
| A10         | 932085.42 | 720989.54 |
| A11         | 932113.14 | 720996.97 |
| A12         | 932130.42 | 721001.71 |
| A13         | 932142.74 | 721006.21 |
| A14         | 932153.64 | 721013.53 |
| A15         | 932163.01 | 721020.96 |
| A16         | 932171.63 | 721029.25 |
| A17         | 932176.46 | 721035.43 |
| A18         | 932185.59 | 721058.22 |
| A19         | 932184.59 | 721082.75 |

**CENTERLINE ROAD CURVE DATA (CONTIN.)**

| POINT ON C           | NORTH     | EAST      |
|----------------------|-----------|-----------|
| FOREBAY              |           |           |
| F1                   | 932052.66 | 720994.49 |
| F2                   | 932057.18 | 721008.94 |
| F3                   | 932055.47 | 721023.99 |
| MICROPOOL            |           |           |
| M1                   | 932109.37 | 721000.94 |
| M2                   | 932127.66 | 721029.70 |
| M3                   | 932131.74 | 721038.71 |
| M4                   | 932132.89 | 721048.53 |
| DIVERSION BOX ACCESS |           |           |
| D1                   | 932010.51 | 720981.62 |
| D2                   | 932004.88 | 720992.92 |
| D3                   | 931996.42 | 721015.05 |
| D4                   | 931993.56 | 721028.18 |
| D5                   | 931994.94 | 721041.53 |

**NOTES:**

- ACCESS ROAD SHALL BE CONSTRUCTED TO MINIMIZE TREE REMOVAL.
- ACCESS ROAD TO BE 12 FEET WIDE EXCEPT AT SITE ENTRANCE WHERE IT SHALL MATCH EXISTING.
- SEE RIPRAP CHANNEL CROSS SECTION DETAIL SHEET G-03. THIS SECTION OF THE CHANNEL SHALL HAVE LARGER RIPRAP AND INCREASED THICKNESS.
- SEE SHEET C-09 FOR LIMIT OF WORK AND DISTURBANCE.



07/21/15 8:42am FILE: K:\PROJECTS\48849\48849\0 - 12\Drawings\RD\Design\2014\1-C-02 Site Plan.dwg by LVA/GRN XREF=D:\Drawings\Est\Site\_48849\_TITLESET.Dwg\Drawings\New Site-2011

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| No.       | DESCRIPTION                     | DATE  | BY |
|-----------|---------------------------------|-------|----|
| 2         | REVISED ROAD AND POND LOCATIONS | 01/15 |    |
| 1         | REVISED ROAD AND POND LOCATIONS | 10/11 | EL |
| REVISIONS |                                 |       |    |

| DRAWN    | SCALE      |
|----------|------------|
| LK       | 1" = 30'   |
| DESIGNED | JOB No.    |
| MS       | 48649.W012 |
| APPROVED | DATE       |
| SH       | JUL. 2015  |

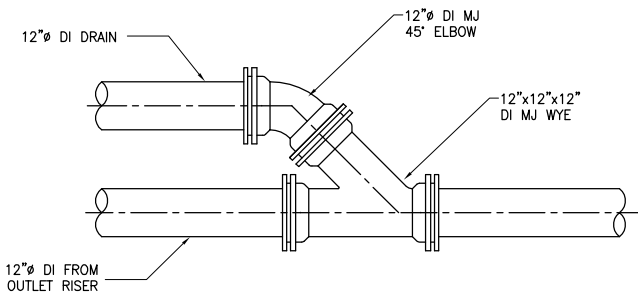


PROJECT  
**CITY OF NEW YORK**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
BUREAU OF WATER SUPPLY  
CONTRACT CRO-420  
FAD RELATED STORMWATER CONTROL  
DREWVILLE ROAD, NEW YORK

TITLE  
**SITE PLAN**

SHEET No.  
**C-02**



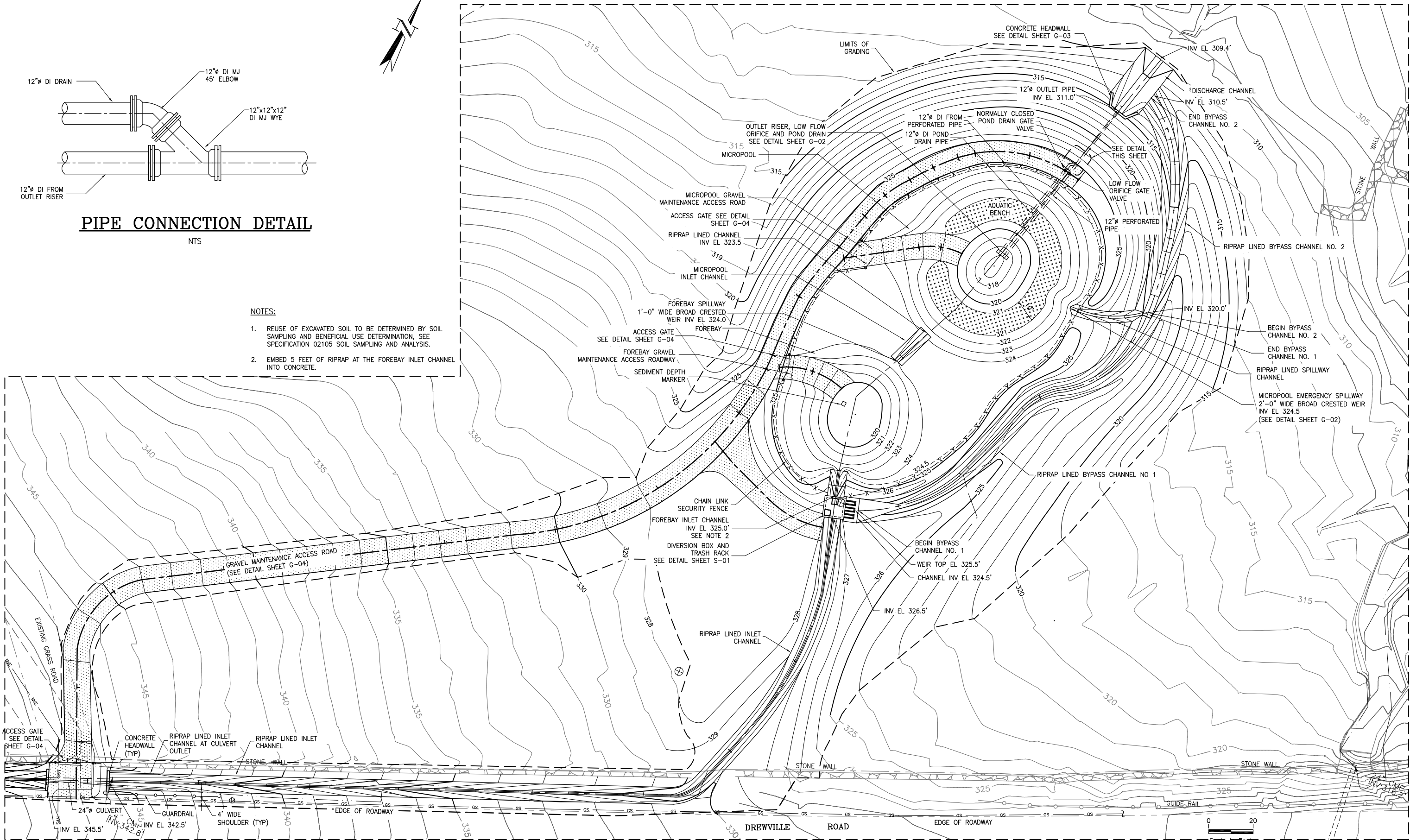


**PIPE CONNECTION DETAIL**

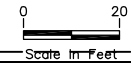
NTS

**NOTES:**

1. REUSE OF EXCAVATED SOIL TO BE DETERMINED BY SOIL SAMPLING AND BENEFICIAL USE DETERMINATION, SEE SPECIFICATION 02105 SOIL SAMPLING AND ANALYSIS.
2. EMBED 5 FEET OF RIPRAP AT THE FOREBAY INLET CHANNEL INTO CONCRETE.



07/21/15 8:45am FILE: K:\PROJECTS\48649\48649.W012\Drawings\ReDesign\2014\C-03 SW Treat Plan.dwg by LVA/DPK JRF-Drewville East Site - 88649 - JTES/ST, Drewville New Site



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| No. | DESCRIPTION                     | DATE  | BY |
|-----|---------------------------------|-------|----|
| 2   | REVISED ROAD AND POND LOCATIONS | 01/15 |    |
| 1   | REVISED ROAD AND POND LOCATIONS | 10/11 | EL |

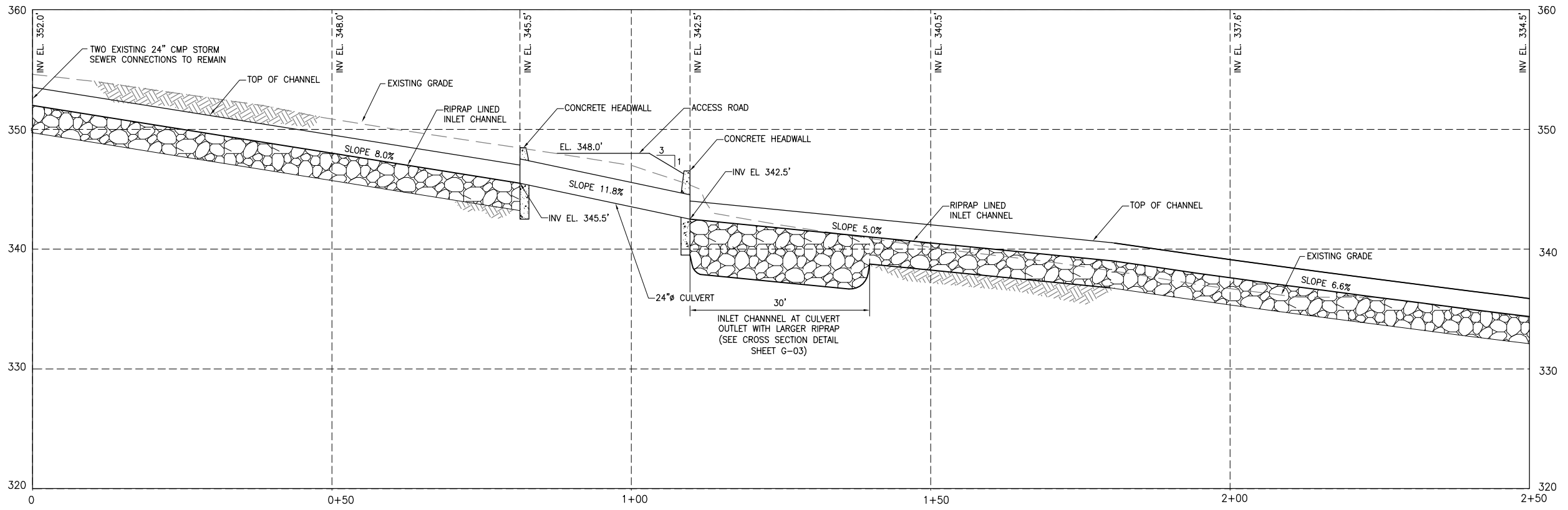
| DESIGNED | DATE      | BY |
|----------|-----------|----|
| LK       |           |    |
| MS       |           |    |
| SH       | JUL. 2015 |    |

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PROJECT  
**CITY OF NEW YORK**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
BUREAU OF WATER SUPPLY  
CONTRACT CRO-420  
FAD RELATED STORMWATER CONTROL  
DREWVILLE ROAD, NEW YORK

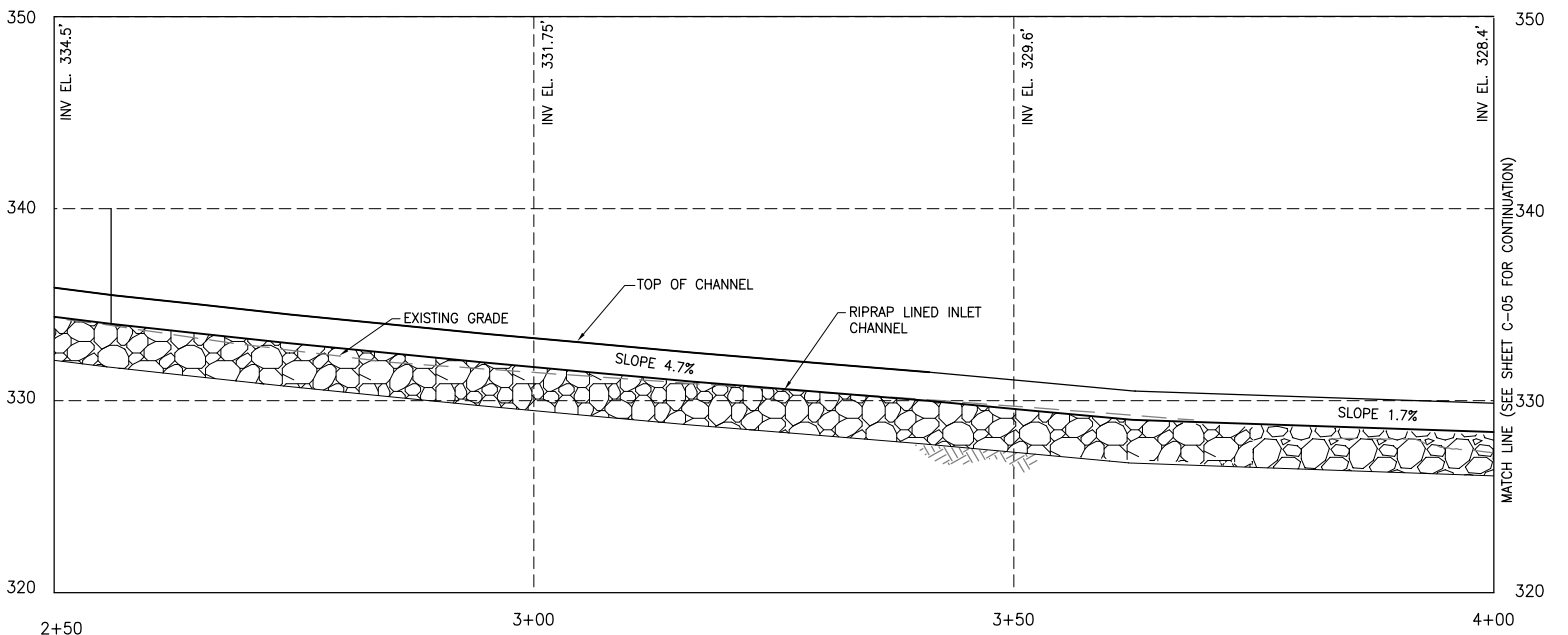
TITLE  
**STORMWATER TREATMENT SYSTEM AND GRADING PLAN**

SHEET No.  
**C-03**



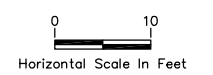
**DREWVILLE ROAD INLET CHANNEL PROFILE**

HORIZONTAL SCALE: 1"=10'  
 VERTICAL SCALE: 1"=5'



**DREWVILLE ROAD INLET CHANNEL PROFILE**

HORIZONTAL SCALE: 1"=10'  
 VERTICAL SCALE: 1"=5'



07/21/15 8:46am FILE= K:\PROJECTS\48649\48649.W0-12\Drawings\RD\Design\2014\C-04 SW Treat Profiles Long by LAMORNIK XREF=Drewville East Site\_48649\_TILESHT, Drewville New Site.

**WARNING**  
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| No.       | DESCRIPTION                     | DATE  | BY |
|-----------|---------------------------------|-------|----|
| 1         | REVISED ROAD AND POND LOCATIONS | 10/11 | EL |
| REVISIONS |                                 |       |    |

|          |    |         |            |
|----------|----|---------|------------|
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| DESIGNED | MS | JOB No. | 48649.W012 |
| APPROVED | SH | DATE    | JUL. 2015  |

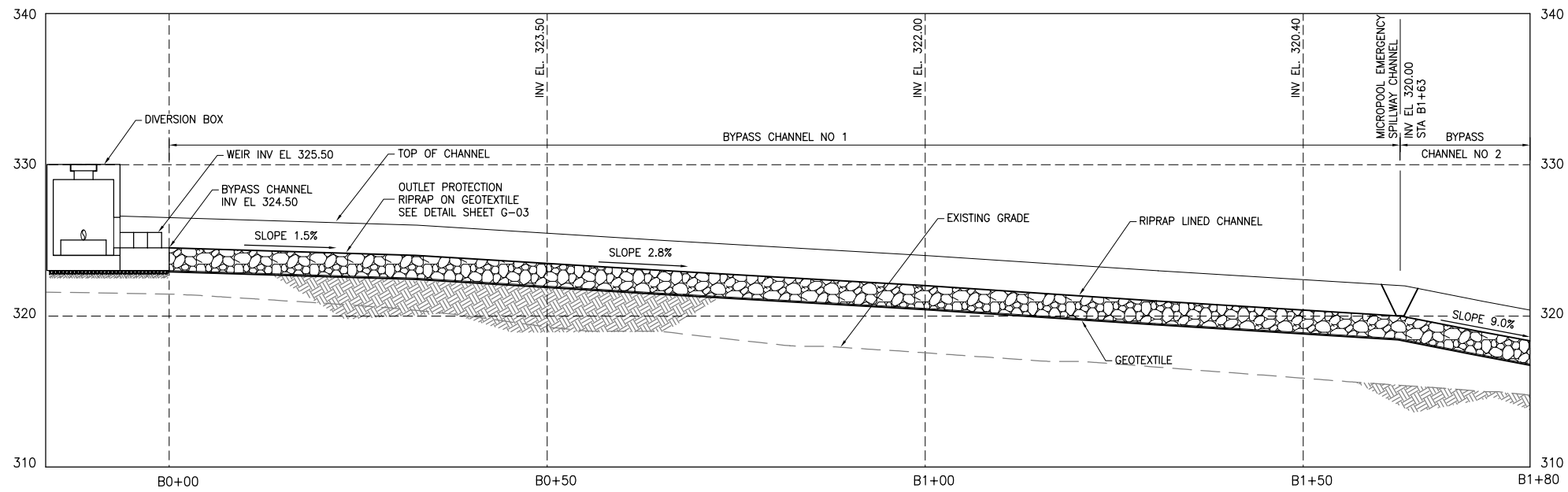


PROJECT  
**CITY OF NEW YORK**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
 BUREAU OF WATER SUPPLY  
 CONTRACT CRO-420  
 FAD RELATED STORMWATER CONTROL  
 DREWVILLE ROAD, NEW YORK

TITLE  
**STORMWATER TREATMENT SYSTEM**  
**PROFILES I**

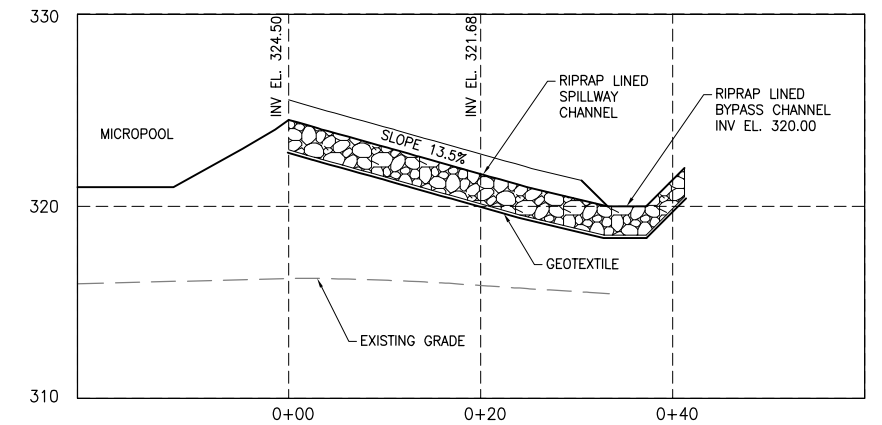
SHEET No.  
**C-04**





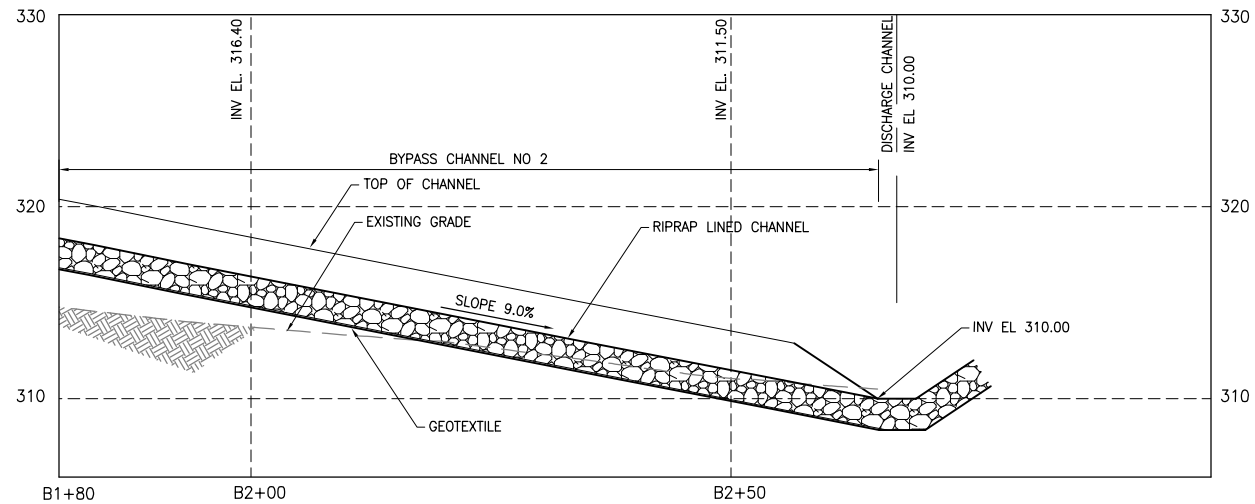
**BYPASS CHANNEL PROFILE**

HORIZONTAL SCALE: 1"=20'  
VERTICAL SCALE: 1"=10'



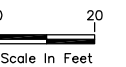
**MICROPOOL EMERGENCY SPILLWAY CHANNEL PROFILE**

HORIZONTAL SCALE: 1"=20'  
VERTICAL SCALE: 1"=10'



**BYPASS CHANNEL PROFILE**

HORIZONTAL SCALE: 1"=20'  
VERTICAL SCALE: 1"=10'



07/21/15 8:50am FILE= K:\PROJECTS\48649\48649.W0-12\Drawings\RD\Design\2014\10-05 SW Treat Profiles\dwg by LKAMORNIK XREF=Drawings\Drawings\48649\_TITLES.DWG, Drawings\New Site

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| No.       | DESCRIPTION                     | DATE  | BY |
|-----------|---------------------------------|-------|----|
| 2         | REVISED ROAD AND POND LOCATIONS | 1/15  | SH |
| 1         | REVISED ROAD AND POND LOCATIONS | 10/11 | EL |
| REVISIONS |                                 |       |    |

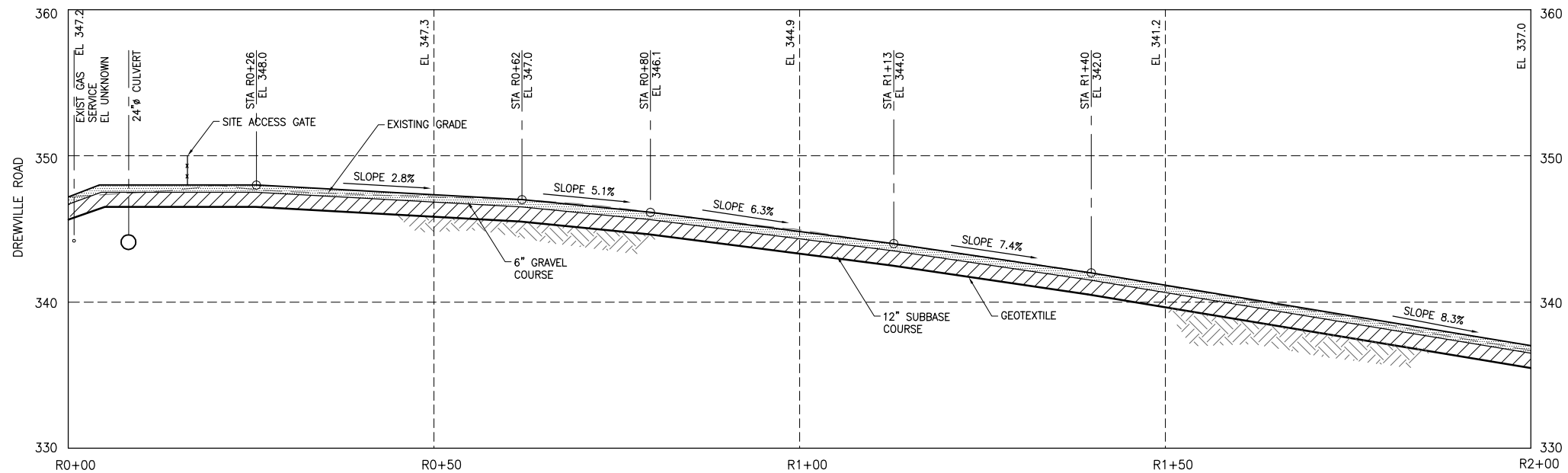
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| LK       | AS SHOWN   |
| DESIGNED | JOB No.    |
| MS       | 48649.W012 |
| APPROVED | DATE       |
| SH       | JUL. 2015  |



PROJECT  
**CITY OF NEW YORK**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
BUREAU OF WATER SUPPLY  
CONTRACT CRO-420  
FAD RELATED STORMWATER CONTROL  
DREWVILLE ROAD, NEW YORK

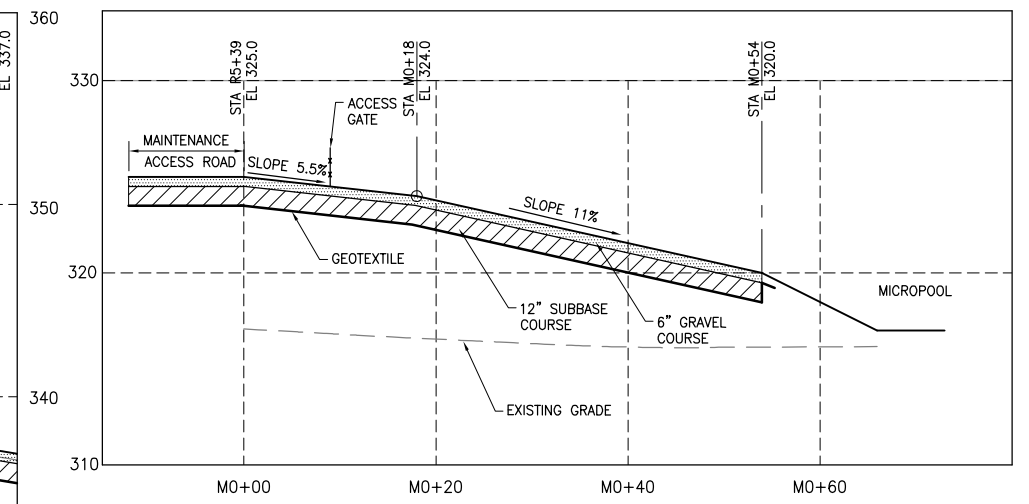
TITLE  
**STORMWATER TREATMENT SYSTEM**  
**PROFILES III**

SHEET No.  
**C-06**

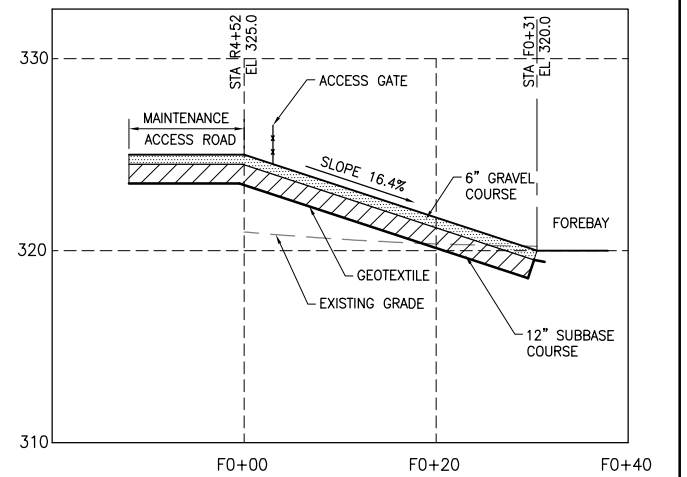


**ACCESS ROAD PROFILE**

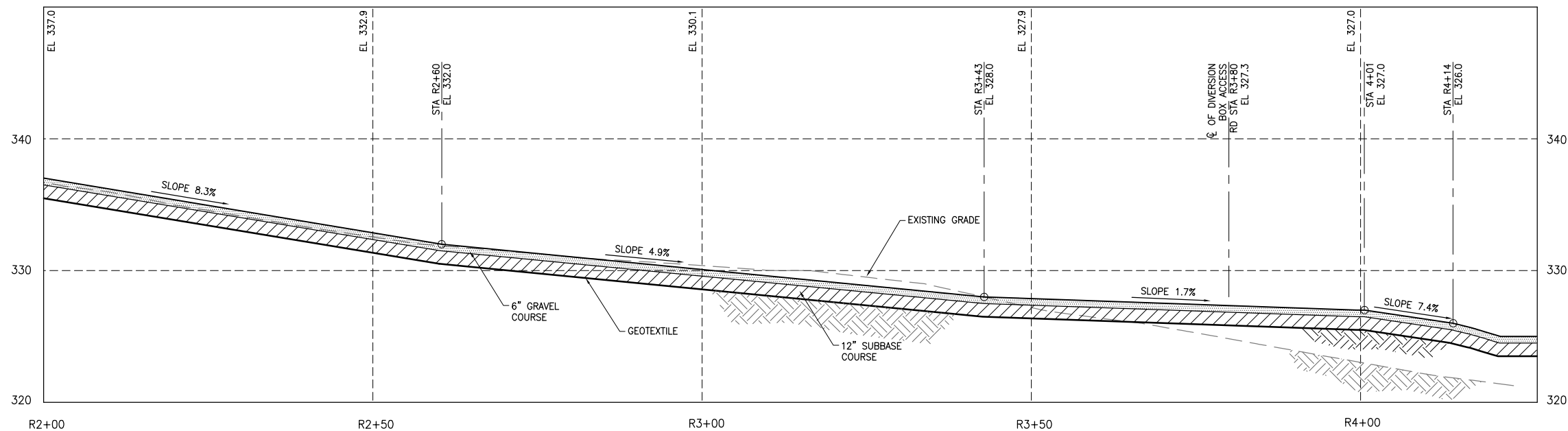
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 VERTICAL SCALE: 1"=10'



**MICROPOOL ACCESS ROAD PROFILE**



**FOREBAY ACCESS ROAD PROFILE**



**ACCESS ROAD PROFILE (CONTINUATION)**

HORIZONTAL SCALE: 1"=20'  
 VERTICAL SCALE: 1"=10'



07/21/15 8:58am FILE= K:\PROJECTS\48649\48649.W0-12\Drawings\RD\Design\2014\C-06A Road Profile.dwg by LKAMORNIK XREF=Drewville East Site\_48649\_TILESET.Dwg New Site.

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|-----------|-------------|------|----|
| REVISIONS |             |      |    |

|          |    |         |            |
|----------|----|---------|------------|
| DRAWN    | LK | SCALE   | AS SHOWN   |
| DESIGNED | MS | JOB No. | 48649.W012 |
| APPROVED | SH | DATE    | JUL. 2015  |



PROJECT  
**CITY OF NEW YORK**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
 BUREAU OF WATER SUPPLY  
 CONTRACT CRO-420  
 FAD RELATED STORMWATER CONTROL  
 DREWVILLE ROAD, NEW YORK

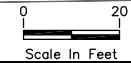
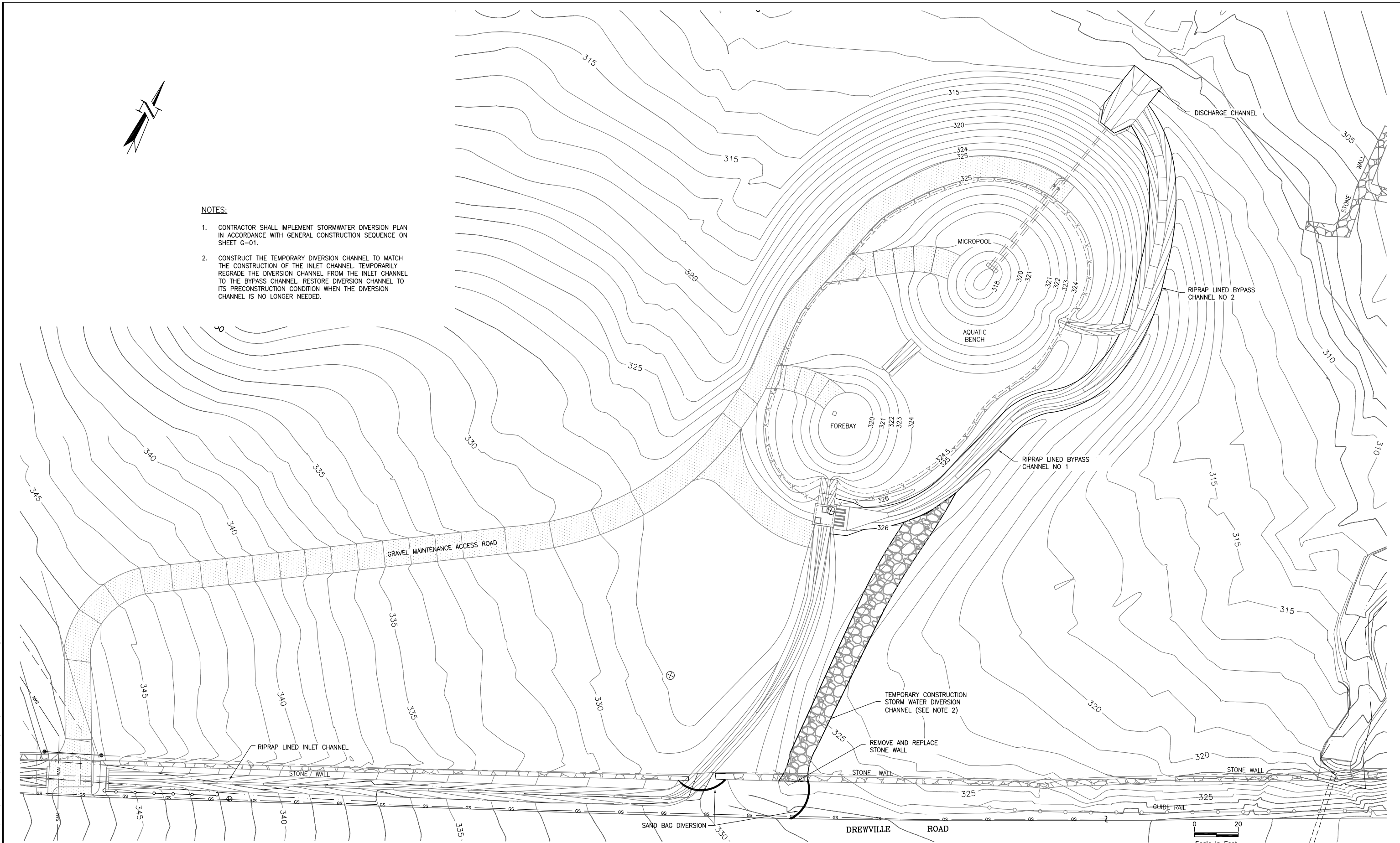
TITLE  
**MAINTENANCE ACCESS ROAD**  
**PROFILE**

SHEET No.  
**C-06A**



**NOTES:**

1. CONTRACTOR SHALL IMPLEMENT STORMWATER DIVERSION PLAN IN ACCORDANCE WITH GENERAL CONSTRUCTION SEQUENCE ON SHEET G-01.
2. CONSTRUCT THE TEMPORARY DIVERSION CHANNEL TO MATCH THE CONSTRUCTION OF THE INLET CHANNEL. TEMPORARILY REGRADE THE DIVERSION CHANNEL FROM THE INLET CHANNEL TO THE BYPASS CHANNEL. RESTORE DIVERSION CHANNEL TO ITS PRECONSTRUCTION CONDITION WHEN THE DIVERSION CHANNEL IS NO LONGER NEEDED.



07/21/19 8:53am FILE: K:\PROJECTS\48649\48649.W012\Drawings\RD\Design\2014\C-07 Const SW Diversion Plan.dwg by LYAMORNIK XREF: Drawings\East Site\_48649\_TILESIT\_Drewville New Site

**WARNING**  
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| No. | DESCRIPTION                     | DATE  | BY |
|-----|---------------------------------|-------|----|
| 2   | BEDC COMMENTS                   | 02/15 | SH |
| 1   | REVISED ROAD AND POND LOCATIONS | 10/11 | EL |

| DESIGNED | DATE  | BY |
|----------|-------|----|
| LK       | 10/11 | MS |

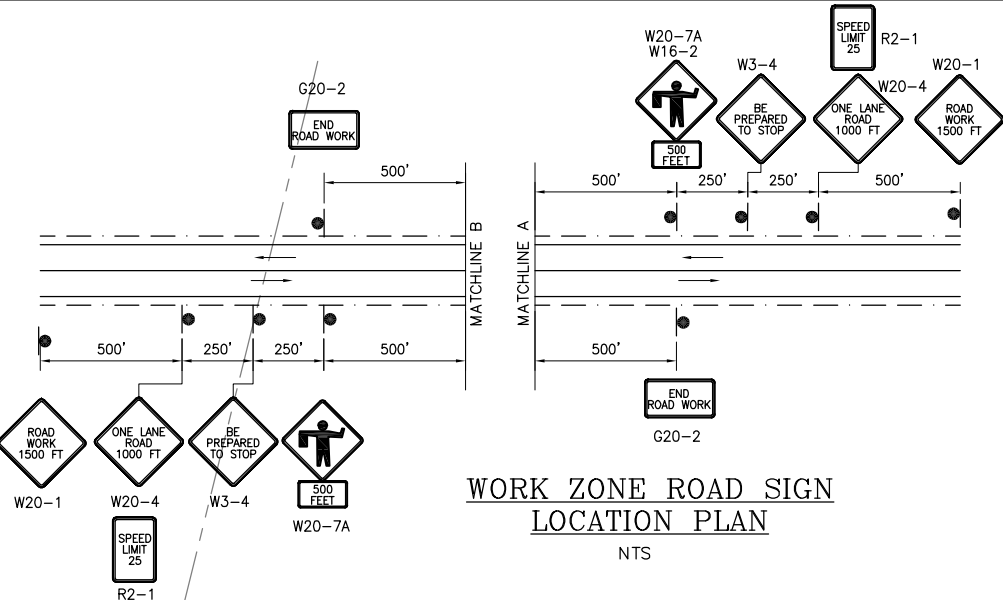
| APPROVED | DATE | BY |
|----------|------|----|
| SHJU\LN. | 2015 |    |

**HDR • Gannett Fleming**  
A Joint Venture

PROJECT  
**CITY OF NEW YORK**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
BUREAU OF WATER SUPPLY  
CONTRACT CRO-420  
FAD RELATED STORMWATER CONTROL  
DREWVILLE ROAD, NEW YORK

TITLE  
**STORMWATER DIVERSION DURING CONSTRUCTION**

SHEET No.  
**C-07**

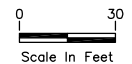
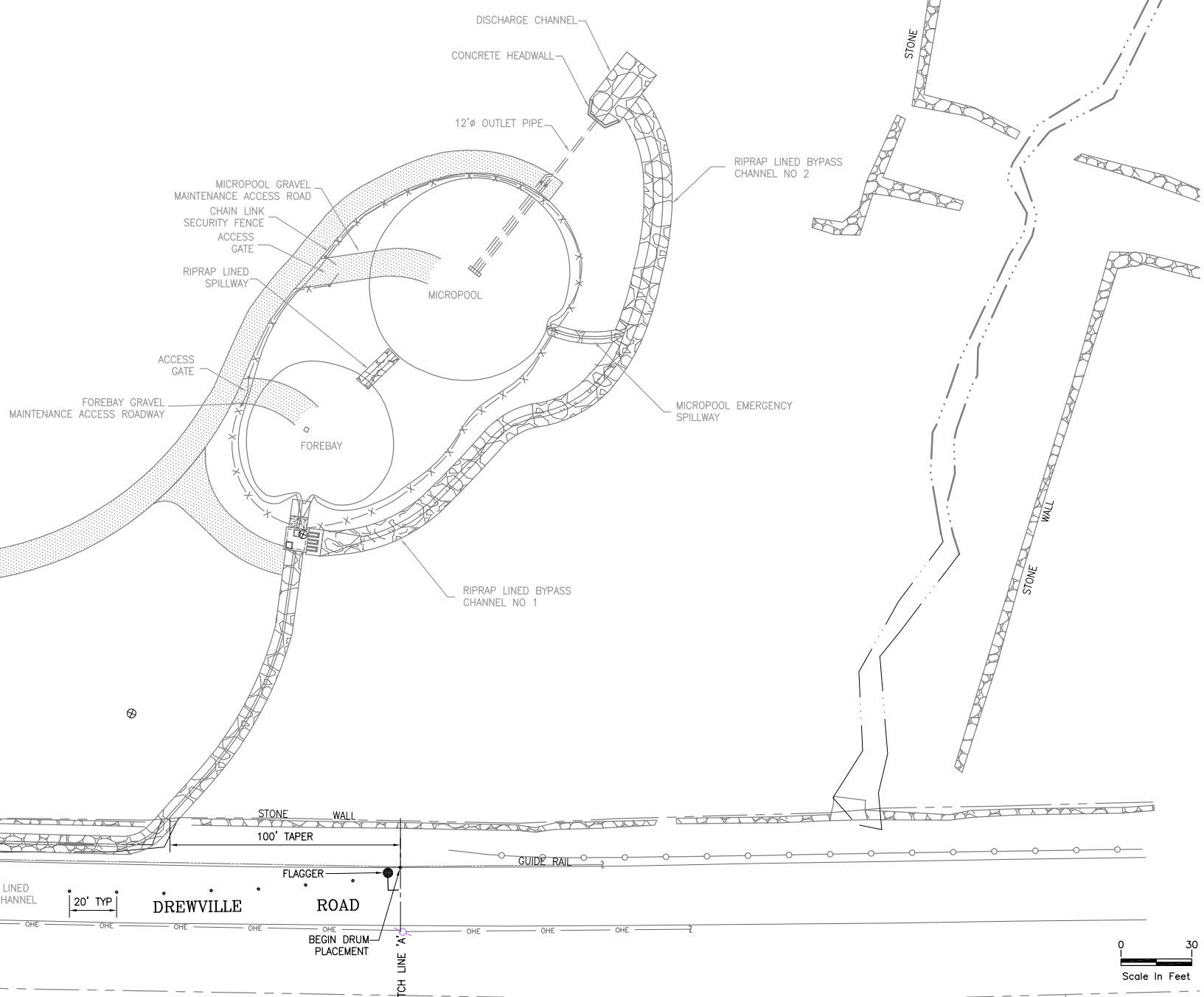


**WORK ZONE ROAD SIGN  
LOCATION PLAN**

NTS

**NOTES:**

1. THE CONTRACTOR SHALL BE AWARE THAT THE MAINTENANCE AND PROTECTION OF VEHICULAR AND PEDESTRIAN TRAFFIC IS A VERY CRITICAL ITEM OF THE PERMIT AND SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 619 "MAINTENANCE AND PROTECTION OF TRAFFIC" OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AND THE FEDERAL MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
2. ACTUAL FIELD CONDITIONS MAY REQUIRE OTHER SIGNS AND OTHER ARRANGEMENTS OF SIGNS.
3. DISTANCES SHALL BE ADAPTED TO PREVAILING CONDITIONS. SIGNS SHALL BE LOCATED TO PROVIDE OPTIMUM VISIBILITY.
4. SIGNS THAT ARE NOT APPLICABLE SHALL BE COVERED OR OBSCURED FROM SIGHT.
5. THE CONTRACTOR MAY SUBMIT REVISIONS TO THIS PLAN FOR APPROVAL BUT ANY CHANGE THAT ALTERS THE BASIC CONCEPTS OF THE PLAN MUST BE APPROVED BY THE NYSDOT.
6. DURING NON-WORKING HOURS, CONSTRUCTION EQUIPMENT AND MATERIALS SHALL NOT BE STORED WITHIN 30 FEET OF THE EDGE OF PAVEMENT.
7. VEHICLES BELONGING TO THE CONTRACTOR OR HIS WORKERS SHALL NOT BE PARKED WITHIN 30 FEET OF THE EDGE OF PAVEMENT ALONG A ROADWAY BEING USED BY THE GENERAL PUBLIC, UNLESS THEY ARE PARKED WITHIN A PROTECTED WORK ZONE.
8. DURING WORK HOURS, NO CONSTRUCTION MATERIAL MAY BE STORED OR PLACED ON THE ROADWAY OR ROADBED EXCEPT IN A PROTECTED WORK ZONE.
9. NO DROP-OFF GREATER THAN SIX INCHES SHALL BE LEFT OVERNIGHT WITHIN 30 FEET OF THE EDGE OF PAVEMENT. DROP-OFFS LESS THAN SIX INCHES WILL BE PERMITTED IF PROPER DELINEATION AND SIGNING IS PROVIDED.
10. PROPER DELINEATION SHALL CONSIST OF DRUMS OR BARRICADES, PROVIDED THEY ARE PROPERLY PAINTED AND REFLECTORIZED IN ACCORDANCE WITH THE FEDERAL M.U.T.C.D. PROPER SIGNING SHALL CONSIST OF A W8-1C ROAD WORK SIGN SERIES AND A W4-13D "NO SHOULDER" SIGN.
11. A DROP-OFF IS CONSIDERED ELIMINATED IF TAPERED AWAY BY A 1:6 SLOPE OR FLATTER.
12. WHEN DRUMS ARE USED FOR DELINEATION OR THE CHANNELIZATION OF TRAFFIC, ONLY PLASTIC DRUMS WHICH CONFORM TO THE M.U.T.C.D. AND ARE IN ACCORDANCE WITH NYSDOT STANDARD SPEC SECTION 729-01 MAY BE USED. THESE DRUMS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S DIRECTIONS. MAXIMUM DRUM SPACING SHALL NOT EXCEED 40 FEET.
13. ANY EXPOSED ROADSIDE HAZARD OR EXCAVATIONS SHALL BE FENCED AND CHANNELIZED TO PREVENT PEDESTRIAN ACCESS, WITH PARTICULAR ATTENTION TO OVERNIGHT HOURS.
14. THE FLAGGING STATIONS AND LANE CLOSURES SHALL BE LOCATED TO ENSURE MAXIMUM VISIBILITY.
15. CONTRACTOR SHALL HAVE MAINTENANCE AND PROTECTION OF TRAFFIC IN PLACE BEFORE AND DURING CONSTRUCTION.
16. WHEN NO WORK IS BEING PERFORMED (NIGHT OR WEEKENDS), THE DRUMS SHALL BE REMOVED AND TRAFFIC RESTORED TO NORMAL PATTERNS. ALL SIGNS ASSOCIATED WITH MPT SHALL BE COVERED WHEN NOT IN USE.
17. CONTRACTOR MUST USE WALKIE TALKIE RADIOS SINCE FLAGGERS ARE NOT IN EACH OTHERS' LINE OF SIGHT.
18. WORK MUST BE STAGED SO THAT IT IS NOT BEING PERFORMED ON THE TWO ROADSIDE DITCHES SIMULTANEOUSLY.
19. CONTRACTOR TO COORDINATE ANY AND ALL ROAD CLOSURES, OR ACTIVITIES WHICH MAY EFFECT NORMAL TRAFFIC, ETC. WITHIN PUTNAM COUNTY WITH THE PUTNAM COUNTY BUREAU OF EMERGENCY SERVICES: PCBES.ORG; (845) 808-4000.



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**WARNING**  
IT IS A VIOLATION OF SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY WAY PLANS, SPECIFICATIONS, PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED, IF AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE, THE DATE, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

| No.       | DESCRIPTION                     | DATE  | BY |
|-----------|---------------------------------|-------|----|
| 2         | BEDC COMMENTS                   | 2/15  | SH |
| 1         | REVISED ROAD AND POND LOCATIONS | 10/11 | EL |
| REVISIONS |                                 |       |    |

| DRAWN    | SCALE      |
|----------|------------|
| LK       | 1" = 30'   |
| DESIGNED | JOB No.    |
| MA       | 48649.WO12 |
| APPROVED | DATE       |
| SH       | JUL. 2015  |



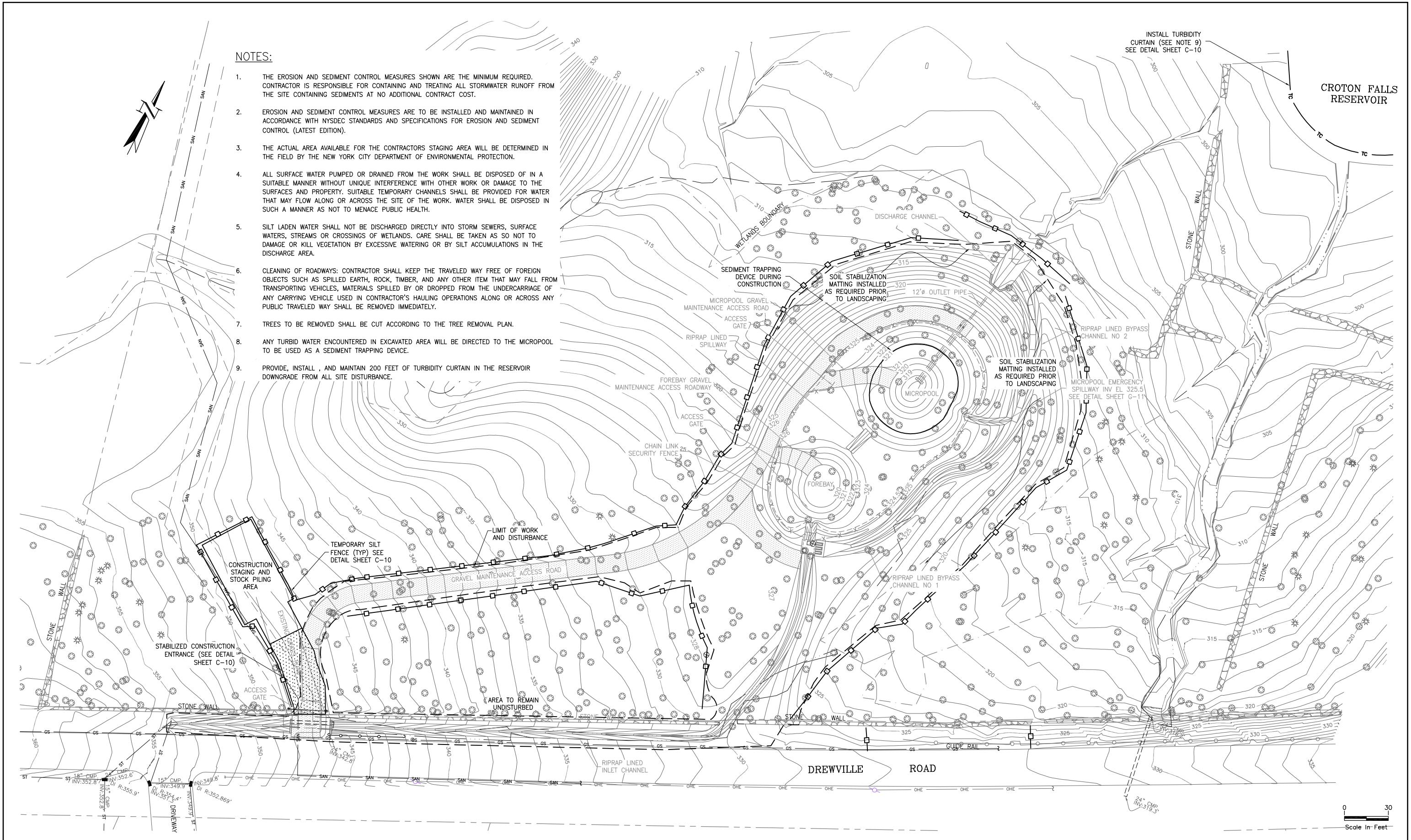
PROJECT  
**CITY OF NEW YORK**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
BUREAU OF WATER SUPPLY  
CONTRACT CRO-420  
FAD RELATED STORMWATER CONTROL  
DREWVILLE ROAD, NEW YORK

TITLE  
**MAINTENANCE AND PROTECTION  
OF TRAFFIC PLAN**

SHEET No.  
**C-08**

**NOTES:**

1. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ARE THE MINIMUM REQUIRED. CONTRACTOR IS RESPONSIBLE FOR CONTAINING AND TREATING ALL STORMWATER RUNOFF FROM THE SITE CONTAINING SEDIMENTS AT NO ADDITIONAL CONTRACT COST.
2. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH NYSDEC STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (LATEST EDITION).
3. THE ACTUAL AREA AVAILABLE FOR THE CONTRACTORS STAGING AREA WILL BE DETERMINED IN THE FIELD BY THE NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION.
4. ALL SURFACE WATER PUMPED OR DRAINED FROM THE WORK SHALL BE DISPOSED OF IN A SUITABLE MANNER WITHOUT UNIQUE INTERFERENCE WITH OTHER WORK OR DAMAGE TO THE SURFACES AND PROPERTY. SUITABLE TEMPORARY CHANNELS SHALL BE PROVIDED FOR WATER THAT MAY FLOW ALONG OR ACROSS THE SITE OF THE WORK. WATER SHALL BE DISPOSED IN SUCH A MANNER AS NOT TO MENACE PUBLIC HEALTH.
5. SILT LADEN WATER SHALL NOT BE DISCHARGED DIRECTLY INTO STORM SEWERS, SURFACE WATERS, STREAMS OR CROSSINGS OF WETLANDS. CARE SHALL BE TAKEN AS SO NOT TO DAMAGE OR KILL VEGETATION BY EXCESSIVE WATERING OR BY SILT ACCUMULATIONS IN THE DISCHARGE AREA.
6. CLEANING OF ROADWAYS: CONTRACTOR SHALL KEEP THE TRAVELED WAY FREE OF FOREIGN OBJECTS SUCH AS SPILLED EARTH, ROCK, TIMBER, AND ANY OTHER ITEM THAT MAY FALL FROM TRANSPORTING VEHICLES, MATERIALS SPILLED BY OR DROPPED FROM THE UNDERCARRIAGE OF ANY CARRYING VEHICLE USED IN CONTRACTOR'S HAULING OPERATIONS ALONG OR ACROSS ANY PUBLIC TRAVELED WAY SHALL BE REMOVED IMMEDIATELY.
7. TREES TO BE REMOVED SHALL BE CUT ACCORDING TO THE TREE REMOVAL PLAN.
8. ANY TURBID WATER ENCOUNTERED IN EXCAVATED AREA WILL BE DIRECTED TO THE MICROPPOOL TO BE USED AS A SEDIMENT TRAPPING DEVICE.
9. PROVIDE, INSTALL, AND MAINTAIN 200 FEET OF TURBIDITY CURTAIN IN THE RESERVOIR DOWNGRADE FROM ALL SITE DISTURBANCE.



CROTON FALLS RESERVOIR

Scale In Feet  
0 30

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| 2         | REVISED ROAD AND POND LOCATIONS | 01/15 |    |
| 1         | REVISED ROAD AND POND LOCATIONS | 10/11 | EL |
| REVISIONS |                                 |       |    |

| DRAWN    | SCALE      |
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| LK       | 1" = 30'   |
| DESIGNED | JOB No.    |
| MS       | 48649.W012 |
| APPROVED | DATE       |
| SH       | JUL. 2015  |

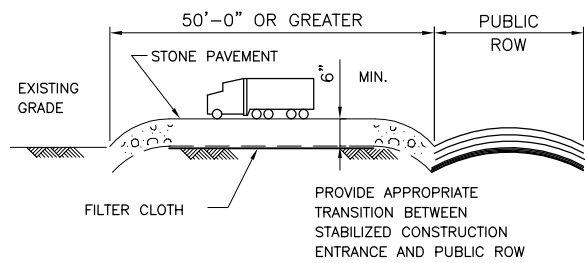


PROJECT  
**CITY OF NEW YORK**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
BUREAU OF WATER SUPPLY  
CONTRACT CRO-420  
FAD RELATED STORMWATER CONTROL  
DREWVILLE ROAD, NEW YORK

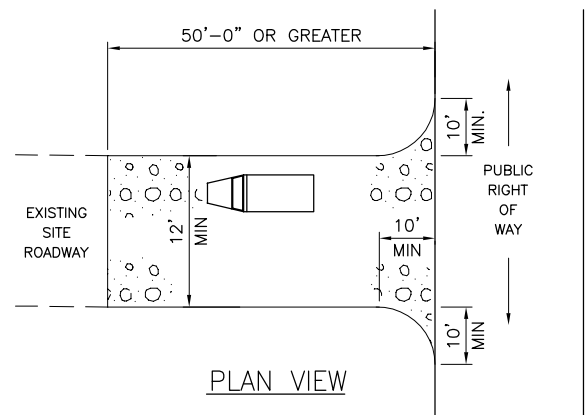
TITLE  
**EROSION AND SEDIMENT CONTROL PLAN**

SHEET No.  
**C-09**





PROFILE



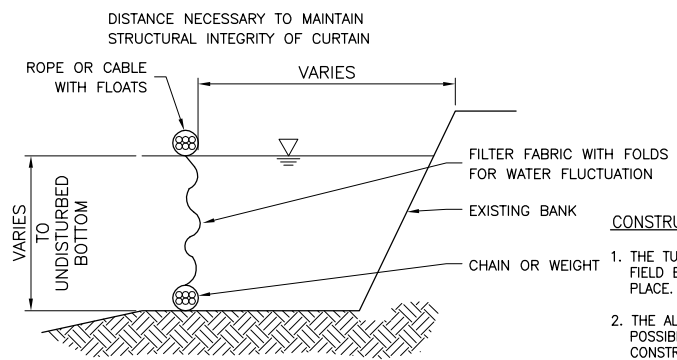
PLAN VIEW

CONSTRUCTION SPECIFICATIONS FOR STABILIZED ENTRANCE:

1. STONE SIZE - USE 2" STONE.
2. LENGTH - NOT LESS THAN 50 FEET.
3. THICKNESS - NOT LESS THAN (6) INCHES.
4. WIDTH - TWELVE (12) FEET MINIMUM.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING 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 FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED IT SHALL BE DONE ON AN 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

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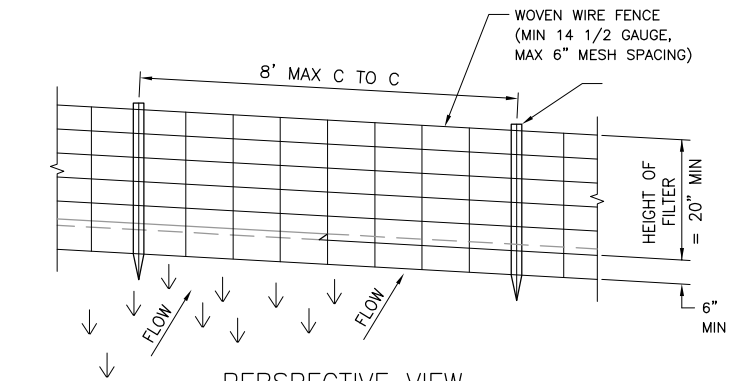


TURBIDITY CURTAIN DETAIL

NTS

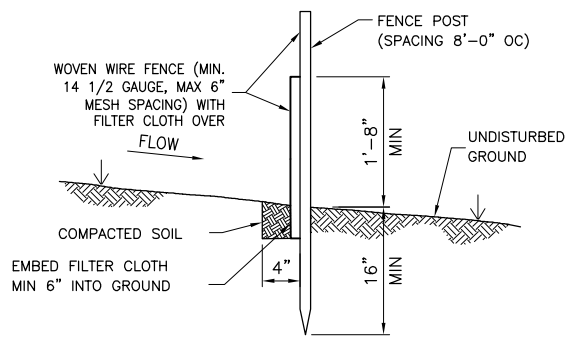
CONSTRUCTION NOTES FOR TURBIDITY CURTAIN:

1. THE TURBIDITY CURTAIN SHOULD BE LOCATED AS DIRECTED IN THE FIELD BASED ON RESERVOIR WATER LEVEL AND FIRMLY ANCHORED IN PLACE.
2. THE ALIGNMENT SHOULD BE SET AS CLOSE TO THE WORK AREA AS POSSIBLE BUT NOT SO CLOSE AS TO BE DISTURBED BY APPLICABLE CONSTRUCTION EQUIPMENT.
3. THE HEIGHT OF THE CURTAIN SHOULD BE 20 PERCENT GREATER THAN THE DEPTH OF THE WATER TO ALLOW FOR WATER LEVEL FLUCTUATIONS.
4. THE AREA OF PROPOSED INSTALLATION OF THE CURTAIN SHOULD BE INSPECTED FOR OBSTACLES AND IMPEDIMENTS THAT COULD DAMAGE THE CURTAIN OR IMPAIR ITS EFFECTIVENESS TO RETAIN SEDIMENT.



PERSPECTIVE VIEW

36" MIN FENCE POSTS DRIVEN MIN 16" INTO GROUND



SECTION

MATERIALS FOR FABRICATED SILT FENCE:

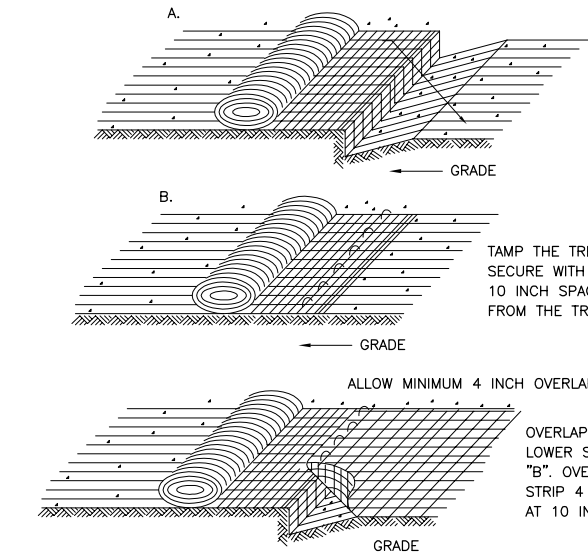
POSTS: STEEL, EITHER "T" OR "U" TYPE OR 2" HARDWOOD  
FENCE: WOVEN WIRE, 14 1/2 GA. 6" MAX MESH OPENING  
FILTER CLOTH: FILTER X, MIRAFI 100X, STABILINKA 7140N OR APPROVED EQUAL.  
PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE:

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
  2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
  3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.
  4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
  5. MAXIMUM ALLOWABLE SLOPE LENGTHS CONTRIBUTING RUNOFF TO A SILT FENCE ARE:
- | SLOPE STEEPNESS  | MAXIMUM SLOPE LENGTH (FT) |
|------------------|---------------------------|
| 2:1              | 50                        |
| 3:1              | 75                        |
| 4:1              | 125                       |
| 5:1              | 175                       |
| FLATTER THAN 5:1 | 200                       |
6. MAXIMUM DRAINAGE AREA FOR OVERLOAD FLOW TO A SILT FENCE SHALL NOT EXCEED 1/2 ACRE PER 100 FEET OF FENCE.

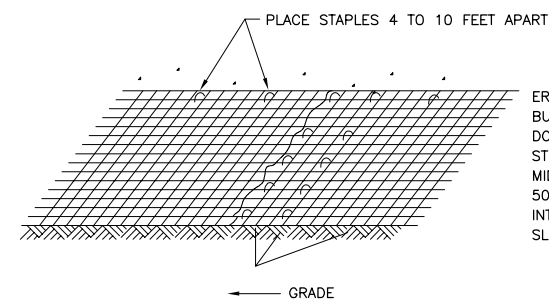
SILT FENCE DETAIL

NTS



EROSION PROTECTION WITH SOIL STABILIZATION MATTING

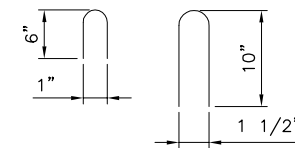
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DETAIL

APPLICABLE FOR JUTE MESH, BIODEGRADABLE MESH NETTING, AND EXCELSIOR MATTING (EXCEPT EXCELSIOR MATTING MAY BE BUTTED).

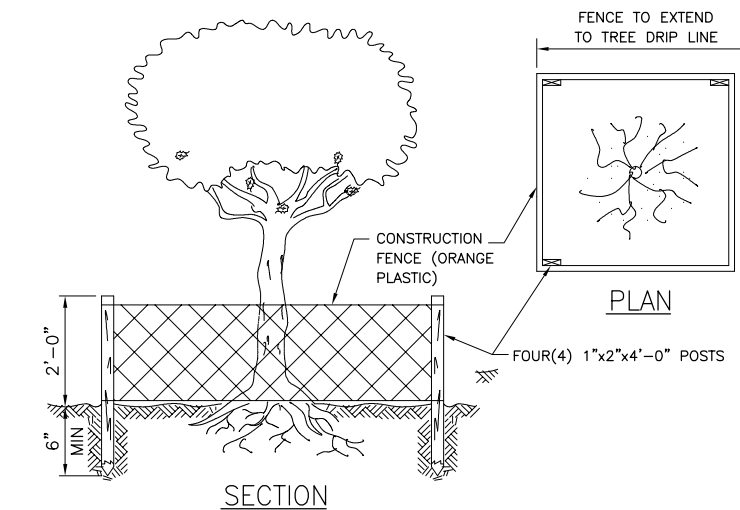
NOTE: LIME, FERTILIZE, AND SEED IN ACCORDANCE WITH THE APPLICABLE SEEDING STANDARD EXCEPT THAT FOR JUTE MESH, 1/2 OF THE SEED MAY BE APPLIED PRIOR TO LAYING THE MATTING AND THE REMAINING SEED APPLIED AFTER LAYING THE MATTING.



TYPICAL STAPLES

NTS

#8 GAUGE WIRE



TEMPORARY TREE PROTECTION DETAIL

NTS

| WARNING  |             |      |    |
|--|-------------|------|----|
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| No.  | DESCRIPTION | DATE | BY |
| REVISIONS  |             |      |    |

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| DRAWN    | SCALE      |
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| LK       | NTS        |
| DESIGNED | JOB No.    |
| MS       | 48649.W012 |
| APPROVED | DATE       |
| SH       | JUL. 2015  |



| PROJECT   |
|---|
| CITY OF NEW YORK<br>DEPARTMENT OF ENVIRONMENTAL PROTECTION<br>BUREAU OF WATER SUPPLY<br>CONTRACT CRO-420<br>FAD RELATED STPRM WATER CONTROL<br>DREWVILLE ROAD, NEW YORK |

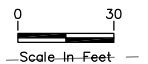
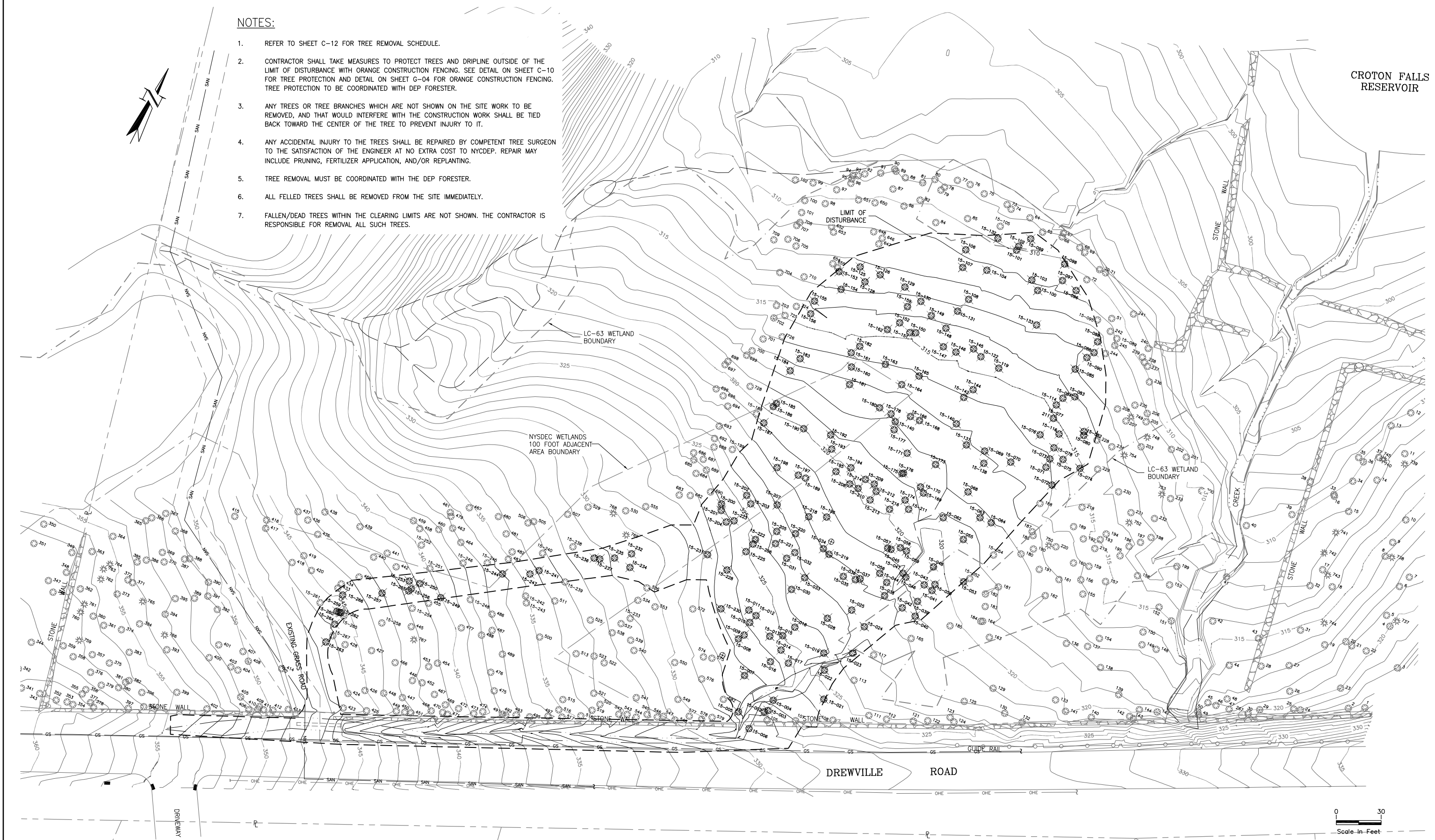
| TITLE                                |
|--------------------------------------|
| EROSION AND SEDIMENT CONTROL DETAILS |

| SHEET No. |
|-----------|
| C-10      |

**NOTES:**

1. REFER TO SHEET C-12 FOR TREE REMOVAL SCHEDULE.
2. CONTRACTOR SHALL TAKE MEASURES TO PROTECT TREES AND DRIPLINE OUTSIDE OF THE LIMIT OF DISTURBANCE WITH ORANGE CONSTRUCTION FENCING. SEE DETAIL ON SHEET C-10 FOR TREE PROTECTION AND DETAIL ON SHEET G-04 FOR ORANGE CONSTRUCTION FENCING. TREE PROTECTION TO BE COORDINATED WITH DEP FORESTER.
3. ANY TREES OR TREE BRANCHES WHICH ARE NOT SHOWN ON THE SITE WORK TO BE REMOVED, AND THAT WOULD INTERFERE WITH THE CONSTRUCTION WORK SHALL BE TIED BACK TOWARD THE CENTER OF THE TREE TO PREVENT INJURY TO IT.
4. ANY ACCIDENTAL INJURY TO THE TREES SHALL BE REPAIRED BY COMPETENT TREE SURGEON TO THE SATISFACTION OF THE ENGINEER AT NO EXTRA COST TO NYCDEP. REPAIR MAY INCLUDE PRUNING, FERTILIZER APPLICATION, AND/OR REPLANTING.
5. TREE REMOVAL MUST BE COORDINATED WITH THE DEP FORESTER.
6. ALL FELLED TREES SHALL BE REMOVED FROM THE SITE IMMEDIATELY.
7. FALLEN/DEAD TREES WITHIN THE CLEARING LIMITS ARE NOT SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL ALL SUCH TREES.

CROTON FALLS RESERVOIR



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| No.       | DESCRIPTION                     | DATE  | BY |
|-----------|---------------------------------|-------|----|
| 2         | REVISED ROAD AND POND LOCATIONS | 01/15 |    |
| 1         | REVISED ROAD AND POND LOCATIONS | 10/11 | EL |
| REVISIONS |                                 |       |    |

| DRAWN    | SCALE      |
|----------|------------|
| LK       | 1" = 30'   |
| DESIGNED | JOB No.    |
| MS       | 48649.W012 |
| APPROVED | DATE       |
| SH       | JUL. 2015  |



PROJECT  
**CITY OF NEW YORK**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
BUREAU OF WATER SUPPLY  
CONTRACT CRO-420  
FAD RELATED STORMWATER CONTROL  
DREWVILLE ROAD, NEW YORK

TITLE  
**TREE REMOVAL PLAN**

SHEET No.  
**C-11**

**TREE REMOVAL SCHEDULE**

| #  | TREE TAG | DESCRIPTION | #   | TREE TAG | DESCRIPTION | #   | TREE TAG | DESCRIPTION | #   | TREE TAG | DESCRIPTION |
|----|----------|-------------|-----|----------|-------------|-----|----------|-------------|-----|----------|-------------|
| 1  | 15-002   | 6" MAPLE    | 51  | 15-062   | 8" MAPLE    | 101 | 15-144   | 8" MAPLE    | 151 | 15-202   | 10" MAPLE   |
| 2  | 15-003   | 10" MAPLE   | 52  | 15-063   | 24" MAPLE   | 102 | 15-145   | 8" MAPLE    | 152 | 15-203   | 6" MAPLE    |
| 3  | 15-004   | 10" MAPLE   | 53  | 15-064   | 10" MAPLE   | 103 | 15-146   | 8" MAPLE    | 153 | 15-204   | 22" MAPLE   |
| 4  | 15-005   | 10" MAPLE   | 54  | 15-068   | 10" MAPLE   | 104 | 15-147   | 6" BIRCH    | 154 | 15-205   | 16" MAPLE   |
| 5  | 15-006   | 10" MAPLE   | 55  | 15-070   | 10" MAPLE   | 105 | 15-148   | 6" MAPLE    | 155 | 15-206   | 6" MAPLE    |
| 6  | 15-007   | 18" MAPLE   | 56  | 15-071   | 22" MAPLE   | 106 | 15-149   | 8" MAPLE    | 156 | 15-207   | 8" MAPLE    |
| 7  | 15-008   | 8" MAPLE    | 57  | 15-072   | 18" MAPLE   | 107 | 15-150   | 10" MAPLE   | 157 | 15-208   | 20" ASH     |
| 8  | 15-009   | 10" MAPLE   | 58  | 15-073   | 24" MAPLE   | 108 | 15-151   | 6" MAPLE    | 158 | 15-209   | 20" ASH     |
| 9  | 15-010   | 10" ASH     | 59  | 15-074   | 18" MAPLE   | 109 | 15-152   | 44" MAPLE   | 159 | 15-210   | 8" MAPLE    |
| 10 | 15-011   | 14" MAPLE   | 60  | 15-075   | 20" MAPLE   | 110 | 15-153   | 18" ASH     | 160 | 15-211   | 8" MAPLE    |
| 11 | 15-012   | 8" MAPLE    | 61  | 15-076   | 8" MAPLE    | 111 | 15-154   | 6" MAPLE    | 161 | 15-212   | 8" MAPLE    |
| 12 | 15-013   | 12" MAPLE   | 62  | 15-077   | 16" MAPLE   | 112 | 15-155   | 8" MAPLE    | 162 | 15-213   | 6" MAPLE    |
| 13 | 15-014   | 14" MAPLE   | 63  | 15-078   | 6" MAPLE    | 113 | 15-156   | 22" BIRCH   | 163 | 15-214   | 6" MAPLE    |
| 14 | 15-015   | 12" MAPLE   | 64  | 15-080   | 12" MAPLE   | 114 | 15-161   | 22" MAPLE   | 164 | 15-216   | 10" MAPLE   |
| 15 | 15-016   | 14" MAPLE   | 65  | 15-082   | 10" MAPLE   | 115 | 15-160   | 6" MAPLE    | 165 | 15-218   | 8" MAPLE    |
| 16 | 15-017   | 10" MAPLE   | 66  | 15-083   | 10" BIRCH   | 116 | 15-162   | 8" MAPLE    | 166 | 15-219   | 8" MAPLE    |
| 17 | 15-018   | 10" MAPLE   | 67  | 15-084   | 12" MAPLE   | 117 | 15-159   | 8" MAPLE    | 167 | 15-220   | 14" ASH     |
| 18 | 15-019   | 6" MAPLE    | 68  | 15-085   | 10" MAPLE   | 118 | 15-163   | 8" MAPLE    | 168 | 15-221   | 10" MAPLE   |
| 19 | 15-021   | 16" MAPLE   | 69  | 15-086   | 8" MAPLE    | 119 | 15-164   | 24" BIRCH   | 169 | 15-222   | 10" MAPLE   |
| 20 | 15-022   | 8" ASH      | 70  | 15-088   | 40" ASH     | 120 | 15-165   | 8" MAPLE    | 170 | 15-223   | 10" MAPLE   |
| 21 | 15-023   | 6" MAPLE    | 71  | 15-090   | 16" MAPLE   | 121 | 15-166   | 8" BIRCH    | 171 | 15-225   | 10" MAPLE   |
| 22 | 15-024   | 8" ASH      | 72  | 15-096   | 6" MAPLE    | 122 | 15-168   | 12" BIRCH   | 172 | 15-226   | 10" MAPLE   |
| 23 | 15-025   | 10" MAPLE   | 73  | 15-097   | 28" MAPLE   | 123 | 15-169   | 6" MAPLE    | 173 | 15-228   | 6" MAPLE    |
| 24 | 15-028   | 10" MAPLE   | 74  | 15-098   | 28" MAPLE   | 124 | 15-170   | 6" MAPLE    | 174 | 15-229   | 10" MAPLE   |
| 25 | 15-030   | 6" MAPLE    | 75  | 15-099   | 8" ELM      | 125 | 15-171   | 12" ASH     | 175 | 15-230   | 10" MAPLE   |
| 26 | 15-031   | 12" HICKORY | 76  | 15-100   | 8" MAPLE    | 126 | 15-173   | 6" ASH      | 176 | 15-231   | 44" MAPLE   |
| 27 | 15-032   | 12" HICKORY | 77  | 15-101   | 10" MAPLE   | 127 | 15-174   | 10" MAPLE   | 177 | 15-232   | 8" MAPLE    |
| 28 | 15-033   | 10" MAPLE   | 78  | 15-102   | 10" MAPLE   | 128 | 15-175   | 10" MAPLE   | 178 | 15-234   | 6" MAPLE    |
| 29 | 15-034   | 10" MAPLE   | 79  | 15-103   | 40" ASH     | 129 | 15-176   | 6" MAPLE    | 179 | 15-235   | 8" MAPLE    |
| 30 | 15-035   | 24" ASH     | 80  | 15-104   | 36" MAPLE   | 130 | 15-177   | 6" ASH      | 180 | 15-236   | 14" MAPLE   |
| 31 | 15-036   | 8" MAPLE    | 81  | 15-106   | 6" MAPLE    | 131 | 15-178   | 8" BIRCH    | 181 | 15-237   | 8" MAPLE    |
| 32 | 15-037   | 18" MAPLE   | 82  | 15-107   | 12" MAPLE   | 132 | 15-180   | 6" MAPLE    | 182 | 15-238   | 8" MAPLE    |
| 33 | 15-038   | 8" ASH      | 83  | 15-108   | 16" MAPLE   | 133 | 15-181   | 8" MAPLE    | 183 | 15-241   | 8" MAPLE    |
| 34 | 15-039   | 14" ASH     | 84  | 15-114   | 10" MAPLE   | 134 | 15-182   | 6" MAPLE    | 184 | 15-244   | 14" CHERRY  |
| 35 | 15-040   | 6" MAPLE    | 85  | 15-116   | 12" MAPLE   | 135 | 15-183   | 12" MAPLE   | 185 | 15-247   | 8" MAPLE    |
| 36 | 15-041   | 16" ASH     | 86  | 15-119   | 6" MAPLE    | 136 | 15-184   | 14" MAPLE   | 186 | 15-249   | 20" MAPLE   |
| 37 | 15-042   | 20" MAPLE   | 87  | 15-122   | 6" MAPLE    | 137 | 15-185   | 6" MAPLE    | 187 | 15-250   | 16" MAPLE   |
| 38 | 15-043   | 14" ASH     | 88  | 15-125   | 28" MAPLE   | 138 | 15-186   | 10" MAPLE   | 188 | 15-253   | 6" ELM      |
| 39 | 15-044   | 6" ELM      | 89  | 15-126   | 8" MAPLE    | 139 | 15-187   | 14" MAPLE   | 189 | 15-255   | 6" MAPLE    |
| 40 | 15-045   | 16" ASH     | 90  | 15-128   | 12" MAPLE   | 140 | 15-189   | 6" MAPLE    | 190 | 15-256   | 8" ASH      |
| 41 | 15-046   | 6" MAPLE    | 91  | 15-129   | 6" MAPLE    | 141 | 15-190   | 6" MAPLE    | 191 | 15-257   | 6" MAPLE    |
| 42 | 15-047   | 6" MAPLE    | 92  | 15-130   | 8" MAPLE    | 142 | 15-192   | 6" MAPLE    | 192 | 15-259   | 10" MAPLE   |
| 43 | 15-048   | 8" MAPLE    | 93  | 15-131   | 8" MAPLE    | 143 | 15-193   | 6" MAGNOLIA | 193 | 15-260   | 6" ASH      |
| 44 | 15-050   | 10" MAPLE   | 94  | 15-132   | 10" MAPLE   | 144 | 15-194   | 10" MAPLE   | 194 | 15-262   | 6" MAPLE    |
| 45 | 15-053   | 8" MAPLE    | 95  | 15-133   | 6" MAPLE    | 145 | 15-195   | 6" MAPLE    | 195 | 15-264   | 10" MAPLE   |
| 46 | 15-055   | 20" MAPLE   | 96  | 15-137   | 14" MAPLE   | 146 | 15-196   | 10" BIRCH   | 196 | 15-266   | 8" MAPLE    |
| 47 | 15-056   | 6" MAPLE    | 97  | 15-138   | 8" MAPLE    | 147 | 15-197   | 16" MAPLE   | 197 | 15-267   | 24" ASH     |
| 48 | 15-057   | 10" MAPLE   | 98  | 15-140   | 8" ASH      | 148 | 15-198   | 6" MAPLE    |     |          |             |
| 49 | 15-058   | 12" ASH     | 99  | 15-141   | 8" MAPLE    | 149 | 15-200   | 6" MAPLE    |     |          |             |
| 50 | 15-059   | 8" MAPLE    | 100 | 15-142   | 6" MAPLE    | 150 | 15-201   | 10" MAPLE   |     |          |             |

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**WARNING**  
IT IS A VIOLATION OF SECTION 2209.2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY WAY PLANS, SPECIFICATIONS, PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED, IF AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION ALTERED BY FOLLOWED BY HIS SIGNATURE, THE DATE, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

| No.       | DESCRIPTION                     | DATE  | BY |
|-----------|---------------------------------|-------|----|
| 2         | REVISED ROAD AND POND LOCATIONS | 01/15 |    |
| 1         | REVISED ROAD AND POND LOCATIONS | 10/11 | EL |
| REVISIONS |                                 |       |    |

| DRAWN    | SCALE      | DATE | BY |
|----------|------------|------|----|
| LK       | NTS        |      |    |
| DESIGNED | JOB No.    |      |    |
| MS       | 48649.WO12 |      |    |
| APPROVED | DATE       |      |    |
| SH       | JUL. 2015  |      |    |



PROJECT  
**CITY OF NEW YORK**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
BUREAU OF WATER SUPPLY  
CONTRACT CRO-420  
FAD RELATED STORMWATER CONTROL  
DREWVILLE ROAD, NEW YORK

TITLE  
**TREE REMOVAL SCHEDULE**

SHEET No.  
**C-12**

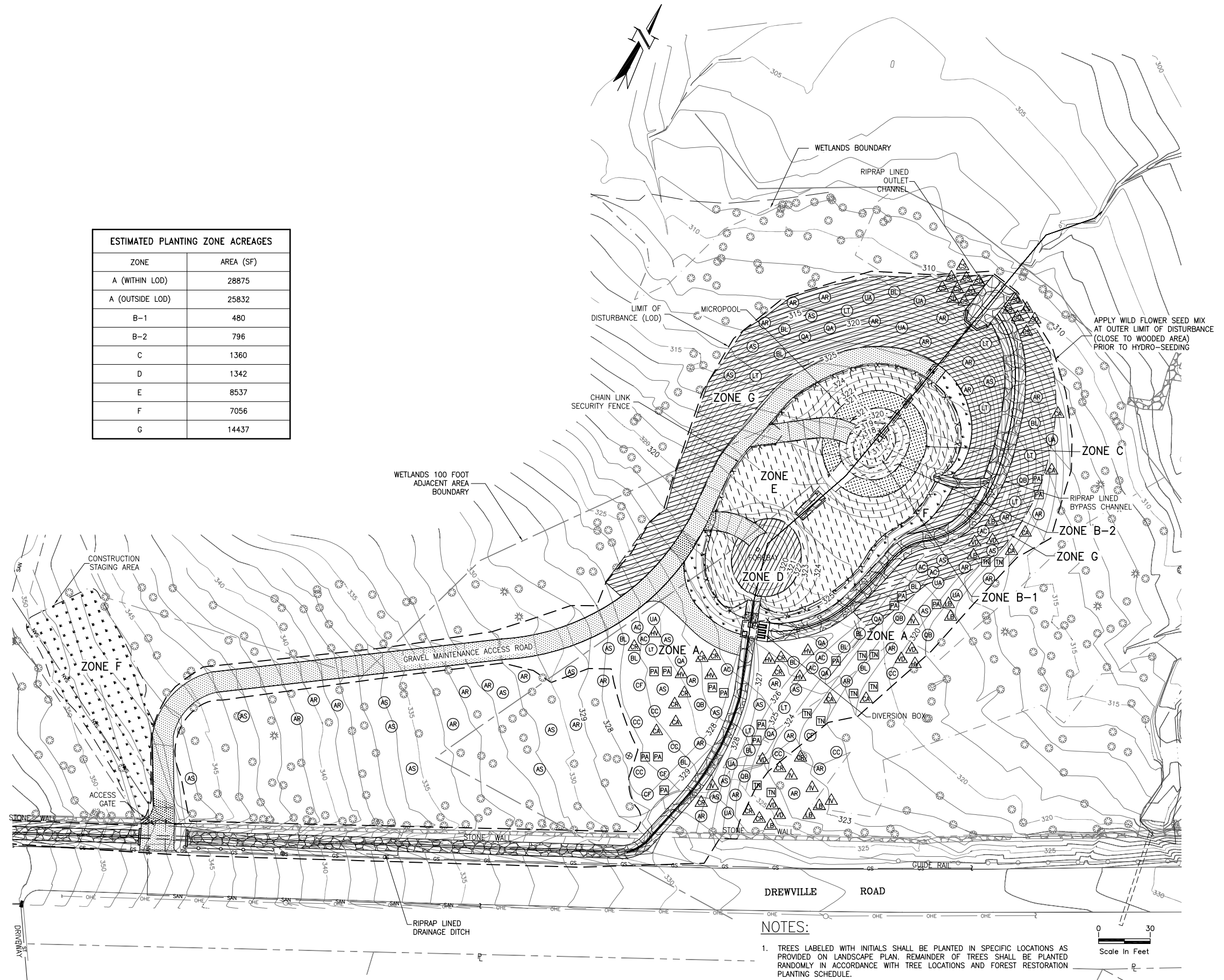
**NOTES:**

1. EROSION AND SEDIMENT CONTROL MEASURES AND DEVICES WILL BE IN PLACE PRIOR TO THE START OF CONSTRUCTION.
2. ALL CONSTRUCTION AREAS ARE TO BE SECURED FOR SAFETY WITH ORANGE CONSTRUCTION OR SILT FENCING.
3. THE CONSTRUCTION STAGING AREA WILL BE RESTORED TO ITS PRE-EXISTING CONDITION.
4. ALL WORK PERFORMED BY CONTRACTOR WILL BE IN ACCORDANCE WITH THE DETAILED SPECIFICATIONS IN ACCORDANCE WITH THE APPROVED PLANS.
5. NO SURFACE AREA SOILS ARE TO REMAIN EXPOSED OR UNTREATED. A TEMPORARY SEED MIXTURE WILL BE APPLIED FOR DISTURBED AREAS THAT WILL NOT BE PERMANENTLY STABILIZED WITHIN 30 DAYS OR WHEN WORK HAS BEEN POSTPONED FOR THE SEASON.
6. TEMPORARY SEEDING DATES: MARCH 1 - JUNE 15 AND AUGUST 1 - OCTOBER 15.
7. TEMPORARY VEGETATION STABILIZATION/TEMPORARY SEEDING: USE TILLER TO LOOSEN COMPACTED SOILS TO A DEPTH OF SIX (6) INCHES. PLACE LOAMY TOPSOIL WHERE NEEDED TO A DEPTH OF 2 INCHES ON 3:1 SLOPES AND 4 INCHES ON FLATTER SLOPES. APPLY APPROPRIATE SPECIFIED SEED MIX PROVIDED IN TABLE 1. FERTILIZE, LIME AND MULCH AS NEEDED. WATER THE SEEDED AREAS AS PER SEED SUPPLIER'S RECOMMENDATIONS.
8. ALL SEEDED AREAS SHOULD BE COVERED WITH CLEAN STRAW MULCH AT A RATE OF 90 LBS PER 1,000 SQUARE FEET.
9. PROPOSED PLANTINGS WILL PROCEED TO COMPLETION UNDER THE DIRECTION OF DEP OR AUTHORIZED AGENT, WHO WILL INSPECT ALL PLANT MATERIALS.
10. VEGETATION OUTSIDE OF CLEARING/PROJECT LIMIT OF DISTURBANCE SHALL BE CLEARLY MARKED IN THE FIELD AS AREAS TO BE PRESERVED.
11. THE RECOMMENDED PLANTING SCHEDULE FOR PLANT MATERIALS IS PROVIDED IN TABLE 2.
12. BALLED AND BURLAPPED PLANTS - MUST BE FREE OF WINTER DAMAGE. PLANT IN EARLY SPRING BEFORE BUD BREAK; CONTAINER-GROWN PLANTS ARE BEST PLANTED IN WARM SOILS DURING EARLY SUMMER AND FALL TO ENCOURAGE RAPID ROOT DEVELOPMENT.
13. HERBIVORY CONTROL MEASURES - IF HERBIVORY BY WATER FOWL/GEESE IS DETECTED HERBIVORY CONTROLS SUCH AS GOOSE EXCLUSION AND DEER FENCING SHALL BE INSTALLED.
14. AFTER INSTALLATION, ALL PLANTS SHALL BE WATERED THOROUGHLY AND DEEPLY UNTIL THE SURROUNDING SOIL IS SATURATED.
15. MULCH TO A DEPTH OF 2 TO 3 INCHES TAPERING INWARD AROUND TREES AND SHRUBS IN UPLAND ZONES. PREFERRED COMMON MULCHES ARE DOUBLE-SHREDDED PINE BARK AND AGED WOOD CHIPS.
16. GOOSE DETERRENT: FOR AREAS ADJACENT TO MICROPOOL AND FOREBAY PLANT A NATIVE WARM SEASON GRASS MIX AS TALL BUFFER STRIPS; NO MOWING OF BUFFER STRIPS IS PERMITTED. BUFFER TO RETAIN THEIR MATURE HEIGHT THROUGHOUT THE ENTIRE YEAR. IN ADDITION TO GRASS SEED MIX A CLUSTER OF DENSE SHRUBS WILL BE INSTALLED (PLANT ZONE C).

| ESTIMATED PLANTING ZONE ACREAGES |           |
|----------------------------------|-----------|
| ZONE                             | AREA (SF) |
| A (WITHIN LOD)                   | 28875     |
| A (OUTSIDE LOD)                  | 25832     |
| B-1                              | 480       |
| B-2                              | 796       |
| C                                | 1360      |
| D                                | 1342      |
| E                                | 8537      |
| F                                | 7056      |
| G                                | 14437     |

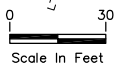
**LEGEND:**

- (X) TREE
- (Δ) SHRUB
- (XX) FERN (2 FERNS PER SYMBOL)
- (X X X X) ZONE A (RANDOM TREE PLACEMENT)
- (---) ZONE B-1
- (---) ZONE B-2
- (---) ZONE C
- (---) ZONE D
- (---) ZONE E
- (---) ZONE F
- (---) ZONE G



**NOTES:**

1. TREES LABELED WITH INITIALS SHALL BE PLANTED IN SPECIFIC LOCATIONS AS PROVIDED ON LANDSCAPE PLAN. REMAINDER OF TREES SHALL BE PLANTED RANDOMLY IN ACCORDANCE WITH TREE LOCATIONS AND FOREST RESTORATION PLANTING SCHEDULE.



07/21/15 8:07am FILE: K:\PROJECTS\48649\48649\13\Drawings\13\_Landscaping\Plan.dwg by LFA/MGR/MLR SHEET: DREWVILLE EXIST SITE 48649 TITLE: DREWVILLE EXIST SITE 48649

**WARNING**  
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| No. | DESCRIPTION                     | DATE  | BY |
|-----|---------------------------------|-------|----|
| 2   | REVISED ROAD AND POND LOCATIONS | 1/15  | SH |
| 1   | REVISED ROAD AND POND LOCATIONS | 10/11 | EL |

| DRAWN    | SCALE      |
|----------|------------|
| LK       | 1" = 30'   |
| DESIGNED | JOB No.    |
| TA       | 48649.W012 |
| APPROVED | DATE       |
| SH       | JUL. 2015  |

**HDR • Gannett Fleming**  
A Joint Venture

PROJECT  
**CITY OF NEW YORK**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
BUREAU OF WATER SUPPLY  
CONTRACT CRO-420  
FAD RELATED STORMWATER CONTROL  
DREWVILLE ROAD, NEW YORK

TITLE  
**LANDSCAPING PLAN**

SHEET No.  
**C-13**

| FOREST RESTORATION AREA – PLANTING SCHEDULE |                              |                            |                     |                |             |         |          |                 |
|---|------------------------------|----------------------------|---------------------|----------------|-------------|---------|----------|-----------------|
|   | COMMON NAME                  | SCIENTIFIC NAME            | CALIPER (INCH)/FORM | AVERAGE HEIGHT | SPEC. (MIM) | SPACING | QUANTITY | PLANTING PERIOD |
| TREES                                       | SWAMP WHITE OAK (QB)         | QUERCUS BICOLOR            | 2 1/2               | 12-14'         | B&B         | 15'     | 4        | SPRING ONLY     |
|   | SUGAR MAPLE (AS)             | ACER SACCHARUM             | 2 1/2               | 12-14'         | B&B         | 15'     | 18       | SPRING/FALL     |
|   | RED MAPLE (AR)               | ACER RUBRUM                | 2 1/2               | 12-14"         | B&B         | 15'     | 21       | SPRING ONLY     |
|   | WHITE OAK (QA)               | QUERCUS ALBA               | 2 1/2               | 10-12'         | B&B         | 15'     | 3        | SPRING ONLY     |
|   | AMERICAN ELM (UA)            | ULMUS AMERICANA            | 2 1/2               | 10'            | B&B         | 15'     | 5        | SPRING/FALL     |
|   | BLACK/SWEET BIRCH (BL)       | BETULA LENTA               | 2 1/2               | 10'            | B&B         | 15'     | 8        | SPRING ONLY     |
|   | TULIPTREE (LT)               | LIRIODENDRON TULIPIFERA    | 2 1/2               | 10-12'         | B&B         | 15'     | 3        | SPRING ONLY     |
|   | FLOWERING DOGWOOD (CF)       | CORNUS FLORIDA             | 2"                  | 10-12'         | B&B         | 15'     | 4        | SPRING/FALL     |
|   | HORNBEAM (CC)                | CARPINUS CAROLINIANA       | 2 1/2               | 12-14'         | B&B         | 15'     | 7        | SPRING/FALL     |
|   | SHADBUSH (AC) (SERVICEBERRY) | AMELANCHIER CANADENSIS     | 2"                  | 10-12'         | B&B         | 15'     | 5        | SPRING/FALL     |
|   |                              |                            |                     |                |             | TOTAL:  | 78       |                 |
| SHRUBS/<br>SMALL TREES                      | GRAY DOGWOOD (CR)            | CORNUS RACEMOSA            | -                   | 4'             | 2 GAL.      | 7' OC   | 12       | SPRING/FALL     |
|   | WINTERBERRY HOLLY (IV)       | ILEX VERTICILLATA          | -                   | 4'             | 2 GAL.      | 7' OC   | 5        | SPRING/FALL     |
|   | WITCH HAZEL (HV)             | HAMAMELIS VIRGINIANA       | -                   | 4'             | 2 GAL.      | 7' OC   | 7        | SPRING/FALL     |
|   | ARROWWOOD (VD)               | VIBURNUM DENTATUM          | -                   | 4'             | B&B         | 7' OC   | 2        | 5/1 - 7/1       |
|   | SPICEBUSH (LB)               | LINDERA BENZOIN            | -                   | 4'             | 2 GAL.      | 7' OC   | 5        | 5/1 - 7/1       |
|   | HAZELNUT (CA)                | CORYLUS AMERICANA          | -                   | 4'             | 2 GAL.      | 15' OC  | 8        | SPRING/FALL     |
|   |                              |                            |                     |                |             | TOTAL:  | 39       |                 |
| FERNS                                       | CHRISTMAS FERN (PA)          | POLYSTICHUM ACROSTICHOIDES |                     | -              | QUART       | 2' OC   | 30       | SPRING/FALL     |
|   | NEW YORK FERN (TN)           | THELYPTERIS NOVEBORACENSIS |                     | -              | QUART       | 2' OC   | 20       | SPRING/FALL     |
|   |                              |                            |                     |                |             | TOTAL:  | 50       |                 |

- NOTES:  
 1. APPLY WILD FLOWER SEED MIX AT THE OUTER LIMITS OF DISTURBED AREAS (CLOSE TO WOODED AREA) PRIOR TO HYDRO-SEEDING.  
 2. SEE SHEET C-15 FOR PLANTING DETAILS.

| MICROPOOL PLANTING SCHEDULE ZONE B-1 – HERBACEOUS (ELEVATION 317' – 319') |                                |         |           |          |                          |
|---|--------------------------------|---------|-----------|----------|--------------------------|
| COMMON NAME   | SCIENTIFIC NAME                | FORM*   | SPACING** | QUANTITY | PLANTING PERIOD          |
| SOFTSTEM BULRUSH  | SCHOENOPLECTUS TABERNAEMONTANI | 2" PLUG | 18" OC    | 67       | SPRING ONLY<br>4/1 – 6/1 |
| HARDSTEM BULRUSH  | SCHOENOPLECTUS ACUTUS          | 2" PLUG | 18" OC    | 67       | SPRING ONLY<br>4/1 – 6/1 |
| PICKERELWEED  | PONTEDERIA CORDATA             | 2" PLUG | 18" OC    | 70       | SPRING ONLY<br>4/1 – 6/1 |
| WHITE LILY  | NYPHEA ODORATA                 | 2" PLUG | 18" OC    | 10       | SPRING ONLY<br>4/1 – 6/1 |
|   |                                |         |           | TOTAL:   | 214                      |

| MICROPOOL PLANTING SCHEDULE ZONE B-2 – HERBACEOUS (ELEVATION 319' – 321') |                                |         |          |          |                 |
|---|--------------------------------|---------|----------|----------|-----------------|
| COMMON NAME   | SCIENTIFIC NAME                | FORM*   | SPACING* | QUANTITY | PLANTING PERIOD |
| COMMON THREE-SQUARE   | SCHOENOPLECTUS PUNGENS         | 2" PLUG | 18" OC   | 55       | 4/1 – 6/1       |
| SOFTSTEM BULRUSH  | SCHOENOPLECTUS TABERNAEMONTANI | 2" PLUG | 18" OC   | 50       | 4/1 – 6/1       |
| LESSER BUR-REED   | SPARGANIUM AMERICANUM          | 2" PLUG | 18" OC   | 55       | 4/1 – 6/1       |
| SWEETFLAG   | ACORCUS AMERICANUS             | 2" PLUG | 18" OC   | 55       | 4/1 – 6/1       |
| BLUE FLAG IRIS  | IRIS VERSICOLOR                | 2" PLUG | 18" OC   | 60       | 4/1 – 6/1       |
| TUSSOCK SEDGE   | CAREX STRICTA                  | 2" PLUG | 18" OC   | 70       | 4/1 – 6/1       |
|   |                                |         |          | TOTAL:   | 345             |

- \*FORM – 2" PLUG OR PEAT POT, MINIMUM 4"  
 \*\*SPACING – 18" ON CENTER, ALTERNATING GRID PATTERN

| MICROPOOL AQUATIC BENCH ZONE C – SHRUBS (ELEVATION 321') |                     |            |          |          |                 |
|--|---------------------|------------|----------|----------|-----------------|
| COMMON NAME  | SCIENTIFIC NAME     | FORM       | SPACING* | QUANTITY | PLANTING PERIOD |
| ELDERBERRY ((SC)   | SAMBUCUS CANADENSIS | #1 /2-3'   | 5' OC    | 15       | 4/1 – 6/1       |
| RED-OSIER DOGWOOD (CS)                                   | CORNUS SERICEA      | #2 /18-24" | 5' OC    | 20       | 4/1 – 6/1       |
| WINTERBERRY (IV)   | ILEX VERTICILLATA   | #1 /2-3'   | 5' OC    | 20       | 4/1 – 6/1       |
|  |                     |            |          | TOTAL:   | 55              |

\*SPACING: LINEAR ROWS – 3'x3' (THREE FEET BETWEEN ROWS AND 3' WITHIN EACH ROW)

| FOREBAY PLANTING SCHEDULE ZONE D – HERBACEOUS (ELEVATION 320' – 322.0') |                        |         |           |          |                 |
|---|------------------------|---------|-----------|----------|-----------------|
| COMMON NAME   | SCIENTIFIC NAME        | SIZE*   | SPACING** | QUANTITY | PLANTING PERIOD |
| COMMON THREE-SQUARE   | SCHOENOPLECTUS PUNGENS | 2" PLUG | 18" OC    | 75       | 4/1 – 6/1       |
| SOFTSTEM BULRUSH  | SCIRPUS VALIDUS        | 2" PLUG | 18" OC    | 100      | 4/1 – 6/1       |
| LESSER BUR-REED   | SPARGANIUM AMERICANUM  | 2" PLUG | 18" OC    | 100      | 4/1 – 6/1       |
| SWEETFLAG   | ACORCUS AMERICANUS     | 2" PLUG | 18" OC    | 100      | 4/1 – 6/1       |
| BLUE FLAG IRIS  | IRIS VERSICOLOR        | 2" PLUG | 18" OC    | 75       | 4/1 – 6/1       |
|   |                        |         |           | TOTAL:   | 450             |

- \*FORM – 2" PLUG OR PEAT POT, MINIMUM 4"  
 \*\*SPACING – 18" ON CENTER, ALTERNATING GRID PATTERN

| EXTENDED DETENTION SEEDING SCHEDULE ZONE E – (TO ELEVATION 325.0') |                      |              |                      |
|--|----------------------|--------------|----------------------|
| COMMON NAME  | SCIENTIFIC NAME      | SEEDING RATE | APPLICATION SCHEDULE |
| SWITCH GRASS   | PANICUM VIRGATUM     | 35 LBS/ACRE  | 4/1 – 6/15           |
| CREeping BENTGRASS   | AGROSTIS STOLONIFERA |              | 4/1 – 6/15           |
| VIRGINIA WILD RYE  | ELYMUS VIRGINICUS    |              | 4/1 – 6/15           |

NOTE:  
 MIX DERIVED FROM NEW ENGLAND WET MEADOW ROADSIDE MEADOW SEED MIX.

| DISTURBED AREAS SEEDING SCHEDULE ZONE F |                   |             |              |                      |
|---|-------------------|-------------|--------------|----------------------|
| COMMON NAME                             | SCIENTIFIC NAME   | PERCENT MIX | SEEDING RATE | APPLICATION SCHEDULE |
| SWITCH GRASS                            | PANICUM VERGATUM  | VARIES      | 23 LBS/ACRE  | 4/1 – 6/15           |
| INDIAN GRASS                            | SORGOSTRUM NUTANS | VARIES      |              | 4/1 – 6/15           |
| VIRGINIA WILD RYE                       | ELYMUS VIRGINICUS | VARIES      |              | 4/1 – 6/15           |
| ANNUAL RYEGRASS                         | LOLIUM SP         | VARIES      |              | 4/1 – 6/15           |

- NOTE:  
 1. DERIVED FROM NEW ENGLAND NATIVE WARM SEASON GRASS MIX.  
 2. ADDITIONAL AMENDMENT OF ANNUAL RYE-GRASS – APPLICATION RATE OF 10 LBS/ACRE.  
 3. RECOMMENDED SEEDING APPLICATION DATE – SPRING.  
 4. QUICK COVER CROP: 1/3 ANNUAL RYE-GRASS (I.E. NON-PERSISTING NURSE CROP) WITH 2/3 NATIVE SEED MIX.

| TABLE 1<br>TEMPORARY VEGETATION STABILIZATION |          |                |
|---|----------|----------------|
| SEED  | LBS/ACRE | LBS/1,000 S.F. |
| ANNUAL RYEGRASS                               | 40       | 1.0            |
| WINTER RYE                                    | 120      | 3.0            |

| TABLE 2<br>RECOMMENDED PLANTING SCHEDULE |         |          |
|--|---------|----------|
| PLANT                                    | SPRING  | FALL     |
| DECIDUOUS                                | 5/1-7/1 | 9/1-11/1 |
| HERBACEOUS (PLUGS)                       | 4/1-6/1 | -        |

| SLOPE STABILIZATION SEEDING SCHEDULE ZONE G (EROSION AND REGRADING AREA) |                    |             |              |                      |
|--|--------------------|-------------|--------------|----------------------|
| COMMON NAME  | SCIENTIFIC NAME    | PERCENT MIX | SEEDING RATE | APPLICATION SCHEDULE |
| REDDTOP  | AGROSTIS ALBA      | VARIES      | 35 LBS/ACRE  | 4/1 – 6/15           |
| UPLAND BENTGRASS   | AGOSTIS PERENNANS  | VARIES      |              | 4/1 – 6/15           |
| BLUE GRAMA   | BOUTELOUA GRACILIS | VARIES      |              | 4/1 – 6/15           |
| CANADA WILD RYE  | ELYMUS CANADENSIS  | VARIES      |              | 4/1 – 6/15           |
| ANNUAL AND PERENNIAL RYEGRASS  | LOLIUM SPECIES     | VARIES      |              | 4/1 – 6/15           |
| LITTLE BLUESTEM  | SCHIZACHYRIUM      | VARIES      |              | 4/1 – 6/15           |
| INDIAN GRASS   | SORGOSTRUM NUTANS  | VARIES      |              | 4/1 – 6/15           |

- PERMANENT SEEDING MIX  
 SOURCE: NEW ENGLAND EROSION CONTROL/RESTORATION MIX – PREMIXED.  
 ADDITIONAL NOTES:  
 1. APPLY BY HYDRO SEED METHOD FOR SLOPES.  
 2. SEEDING APPLICATION RATE: RECOMMENDED 35 LBS/ACRE – COVERS 1,250 SQ FT/LB.  
 3. APPLY FAST RELEASE FERTILIZER EXCLUDING PHOSPHORUS BASED ON SOIL CHEMISTRY RESULTS.  
 4. LIGHT MULCHING OF STRAW IS RECOMMENDED FOR SLOPE STABILIZATION.

| ZONE G – TREES AND SHRUBS ON SLOPES |                              |                         |                     |                |            |          |          |                 |           |
|-------------------------------------|------------------------------|-------------------------|---------------------|----------------|------------|----------|----------|-----------------|-----------|
|                                     | COMMON NAME                  | SCIENTIFIC NAME         | CALIPER (INCH)/FORM | AVERAGE HEIGHT | SPEC (MIM) | SPACING* | QUANTITY | PLANTING PERIOD |           |
| TREES                               | SUGAR MAPLE (AS)             | ACER SACCHARUM          | 1 1/2" – 2"         | 8-10'          | B&B        | 15'      | 6        | SPRING ONLY     |           |
|                                     | RED MAPLE (AR)               | ACER RUBRUM             | 1 1/2" – 2"         | 8-10'          | B&B        | 15'      | 11       | SPRING ONLY     |           |
|                                     | TULIPTREE (LT)               | LIRIODENDRON TULIPIFERA | 1 1/2" – 2"         | 8-10'          | B&B        | 15'      | 6        | SPRING ONLY     |           |
|                                     | BLACK/SWEET BIRCH (BL)       | BETULA LENTA            | 1 1/2" – 2"         | 8-10'          | B&B        | 15'      | 5        | SPRING ONLY     |           |
|                                     | WHITE OAK (QA)               | QUERCUS ALBA            | 1 1/2" – 2"         | 8-10'          | B&B        | 15'      | 3        | SPRING ONLY     |           |
|                                     | SWAMP WHITE OAK (QB)         | QUERCUS BICOLOR         | 1 1/2" – 2"         | 8-10'          | B&B        | 15'      | 1        | SPRING ONLY     |           |
|                                     | AMERICAN ELM (UA)            | ULMUS AMERICANA         | 1 1/2" – 2"         | 8-10'          | B&B        | 15'      | 5        | SPRING ONLY     |           |
|                                     | SHADBUSH (AC) (SERVICEBERRY) | AMELANCHIER CANADENSIS  | 1 1/2" – 2"         | 8-10'          | B&B        | 15'      | 3        | SPRING ONLY     |           |
|                                     |                              |                         |                     |                |            |          | TOTAL:   | 40              |           |
|                                     | SHRUBS                       | PUSSY WILLOW (SD)       | SALIX DISCOLOR      | #1 /2-3'       |            |          | 7' OC    | 7               | 4/1 – 6/1 |
| RED-OSIER DOGWOOD (CS)              |                              | CORNUS SERICEA          | #2 /18-24"          |                |            | 7' OC    | 8        | 4/1 – 6/1       |           |
| SPICEBUSH (LB)                      |                              | LINDERA BENZOIN         |                     | 4'             | 2 GAL.     | 7' OC    | 2        | 5/1 – 7/1       |           |
|                                     | ARROWWOOD (VD)               | VIBURNUM DENTATUM       |                     | 4'             | 2 GAL.     | 7' OC    | 2        | 5/1 – 7/1       |           |
|                                     |                              |                         |                     |                |            | TOTAL:   | 19       |                 |           |

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| No.       | DESCRIPTION                     | DATE  | BY |
|-----------|---------------------------------|-------|----|
| 2         | REVISED ROAD AND POND LOCATIONS | 1/15  | SH |
| 1         | REVISED ROAD AND POND LOCATIONS | 10/11 | EL |
| REVISIONS |                                 |       |    |

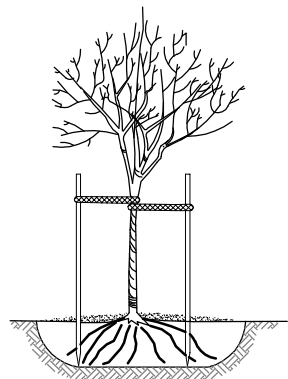
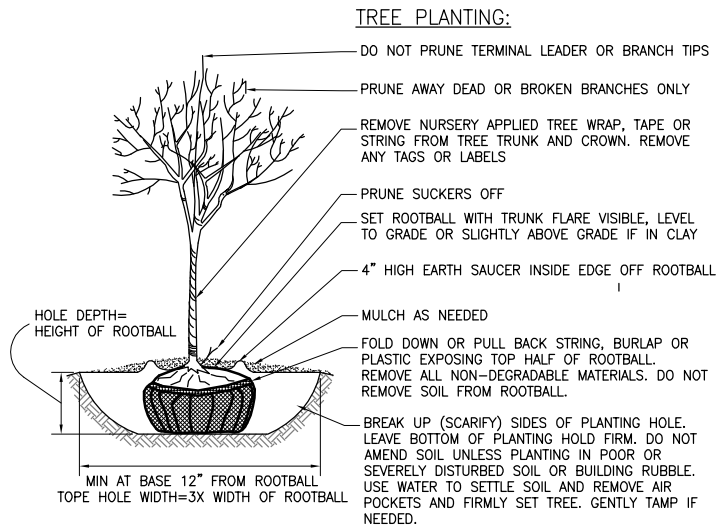
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|----------|------------|
| LK       | NONE       |
| DESIGNED | JOB No.    |
| MS       | 48649.WO12 |
| APPROVED | DATE       |
| SH       | JUL. 2015  |



PROJECT CITY OF NEW YORK  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 BUREAU OF WATER SUPPLY  
 FAD RELATED STORMWATER CONTROL  
 CONTRACT CRO-420  
 DREWVILLE ROAD, NEW YORK

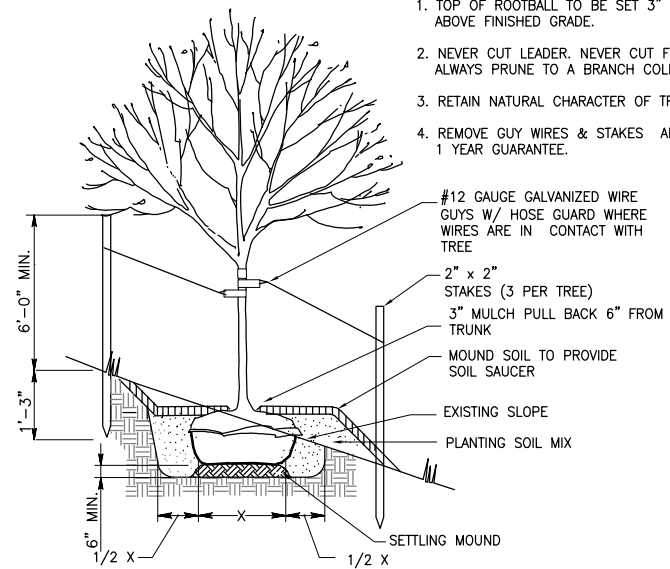
TITLE LANDSCAPING SCHEDULES

SHEET No. C-14



**STAKING:**

- DO NOT STAKE UNLESS IN HEAVY CLAY SOIL, WINDY CONDITIONS, 3" OR GREATER DIAMETER TREE TRUNK OR LARGE CROWN, SLOPES GREATER THAN 15%. IF STAKING IS NEEDED DUE TO THESE CONDITIONS:
- STAKE WITH 2x2 HARDWOOD STAKES OR APPROVED EQUAL DRIVEN 6"-8" OUTSIDE OF ROOTBALL.
  - LOOSELY STAKE TREE TRUNK TO ALLOW FOR TRUNK FLEXING.
  - STAKE TREES JUST BELOW FIRST BRANCH WITH 2"-3" WIDE BELT-LIKE, NYLON OR PLASTIC STRAPS (2 PER TREE ON OPPOSITE SIDES OF TREE, CONNECT FROM TREE TO STAKE HORIZONTALLY. DO NOT USE ROPE OR WIRE THROUGH A HOSE).
  - REMOVE ALL STAKING MATERIALS AFTER 1 YEAR.



**NOTES:**

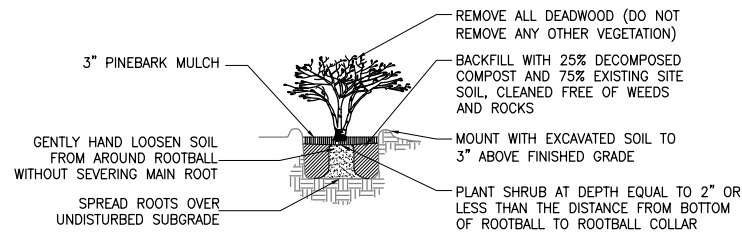
1. TOP OF ROOTBALL TO BE SET 3" ABOVE FINISHED GRADE.
2. NEVER CUT LEADER. NEVER CUT FLUSH. ALWAYS PRUNE TO A BRANCH COLLAR.
3. RETAIN NATURAL CHARACTER OF TREE.
4. REMOVE GUY WIRES & STAKES AFTER 1 YEAR GUARANTEE.

**DECIDUOUS TREE PLANTING**

NOT TO SCALE

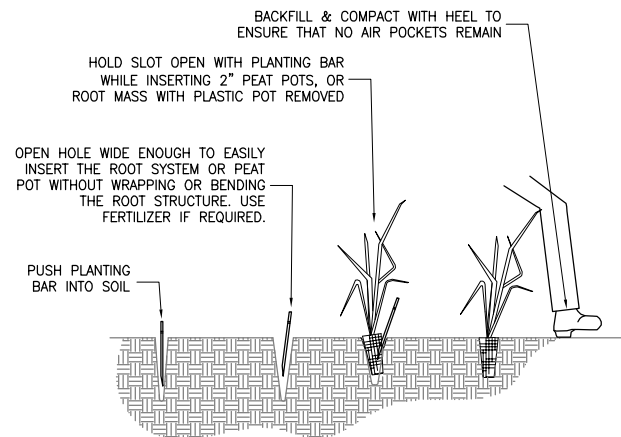
**TREE PLANTING ON SLOPES DETAIL**

NOT TO SCALE



**SHRUB PLANTING - CONTAINER GROWN**

NOT TO SCALE



**HERBACEOUS PLANT INSTALLATION DETAIL (TYPICAL)**

NOT TO SCALE

07/21/15 9:10am FILE= K:\PROJECTS\48000\48649\WD-12\Drawings\_Rd\Design\_2014\C-15 Landscaping Details.dwg by LAMORNIK XREF= 48649\_1TLESHT.

**WARNING**  
 IT IS A VIOLATION OF SECTION 7209.2 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER IN ANY WAY PLANS, SPECIFICATIONS, PLATS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED, IF AN ITEM BEARING THE SEAL OF A PROFESSIONAL ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE, THE DATE, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

| No.       | DESCRIPTION                     | DATE  | BY |
|-----------|---------------------------------|-------|----|
| 1         | REVISED ROAD AND POND LOCATIONS | 10/11 | EL |
| REVISIONS |                                 |       |    |

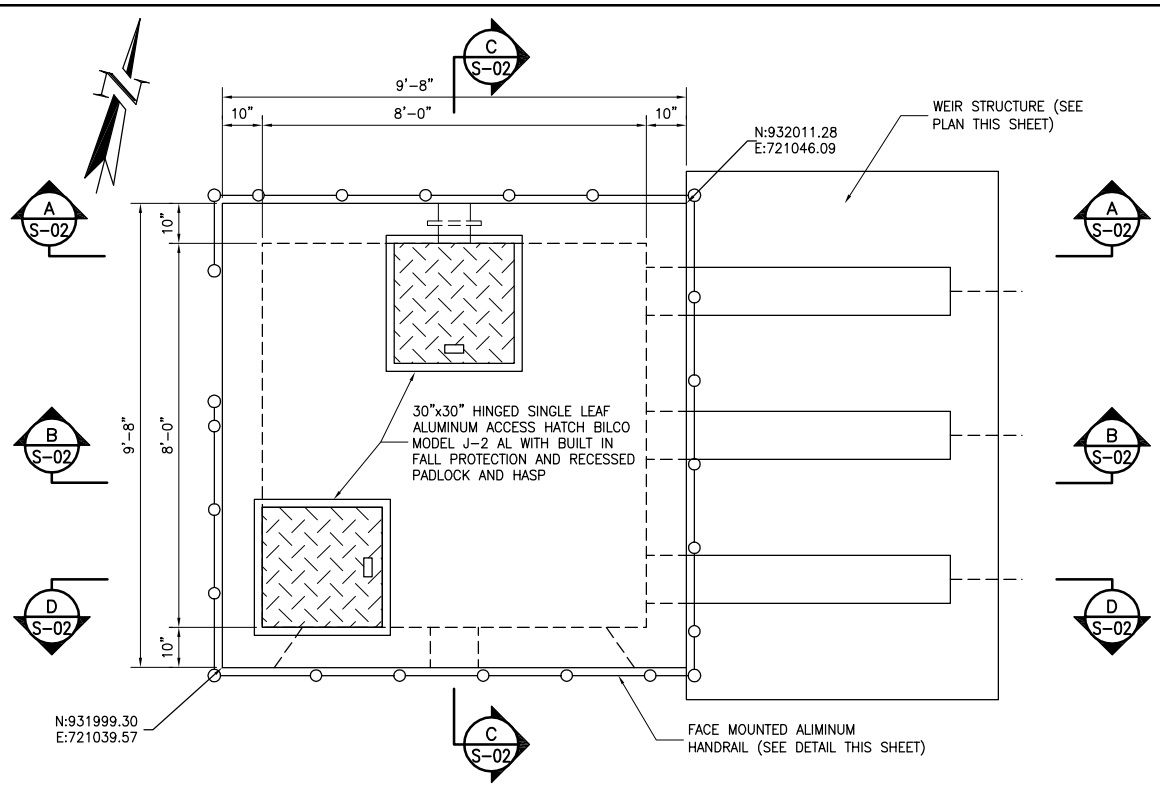
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| DESIGNED | TA | JOB No. | 48649.W012 |
| APPROVED | SH | DATE    | JUL. 2015  |



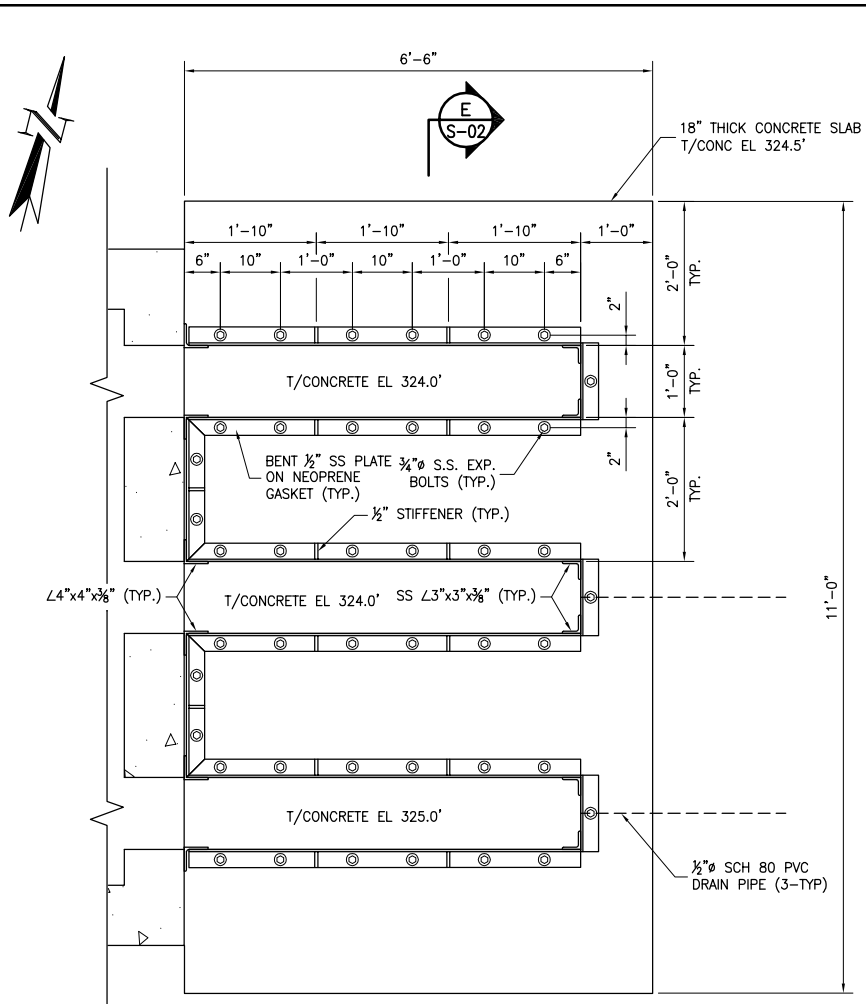
PROJECT  
**CITY OF NEW YORK**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
 BUREAU OF WATER SUPPLY  
 CONTRACT CRO-420  
 FAD RELATED STORMWATER CONTROL  
 DREWVILLE ROAD, NEW YORK

TITLE  
**LANDSCAPING DETAILS**

SHEET No.  
**C-15**

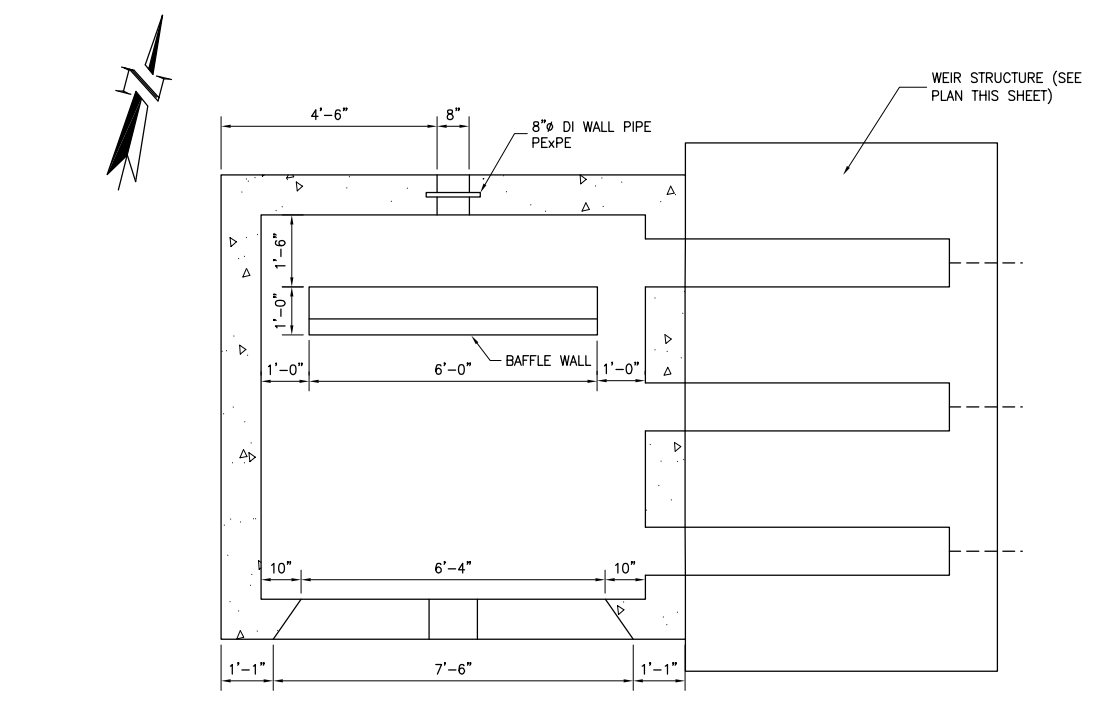


**PLAN AT ELEVATION 330.0'**  
SCALE: 1/2"=1'-0"

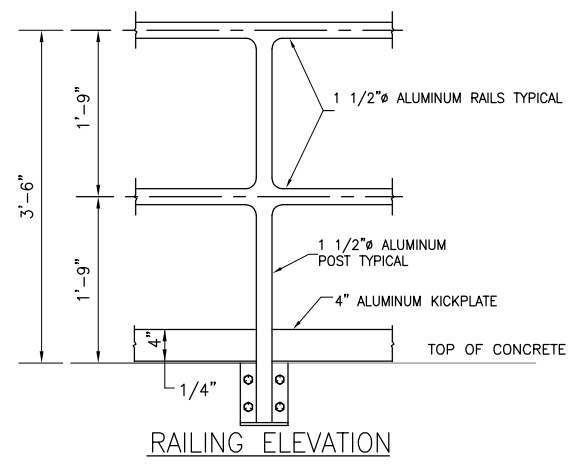


**WEIR STRUCTURE PLAN**  
SCALE: 3/4"=1'-0"

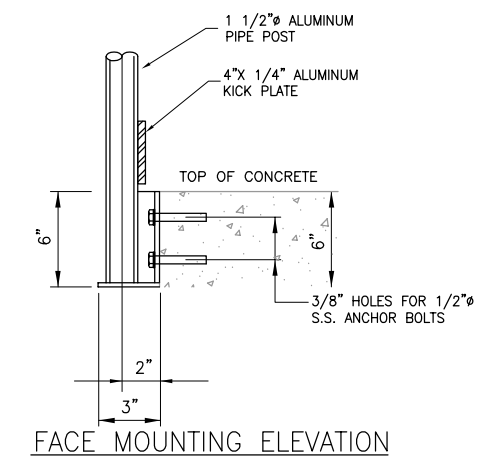
- NOTES:**
- WEIR SHALL BE FABRICATED WITH 316 STAINLESS STEEL.



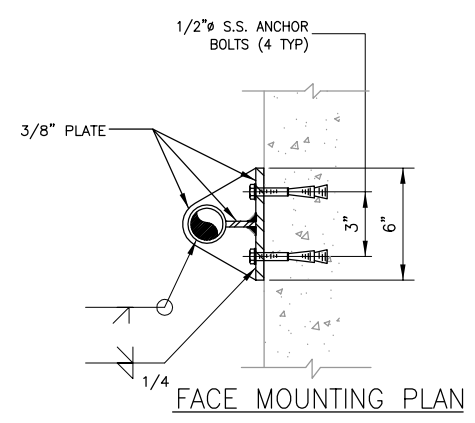
**PLAN AT ELEVATION 325.5'**  
SCALE: 1/2"=1'-0"



**RAILING ELEVATION**



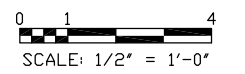
**FACE MOUNTING ELEVATION**



**FACE MOUNTING PLAN**

- NOTES:**
- FINISH FOR ALL ALUMINUM HANDRAILS TO BE ANODIZED BROWN, FINAL COLOR SELECTED BY OWNER.

**FACE MOUNTED ALUMINUM HAND RAIL DETAIL**



07/27/15 9:10am FILE= K:\PROJECTS\48649\WO-12\Drawings\RA\Design\30\AS-01\_Diversion Box\_Plan.dwg by LKAMORNIK XREFS=48649\_TITLESET

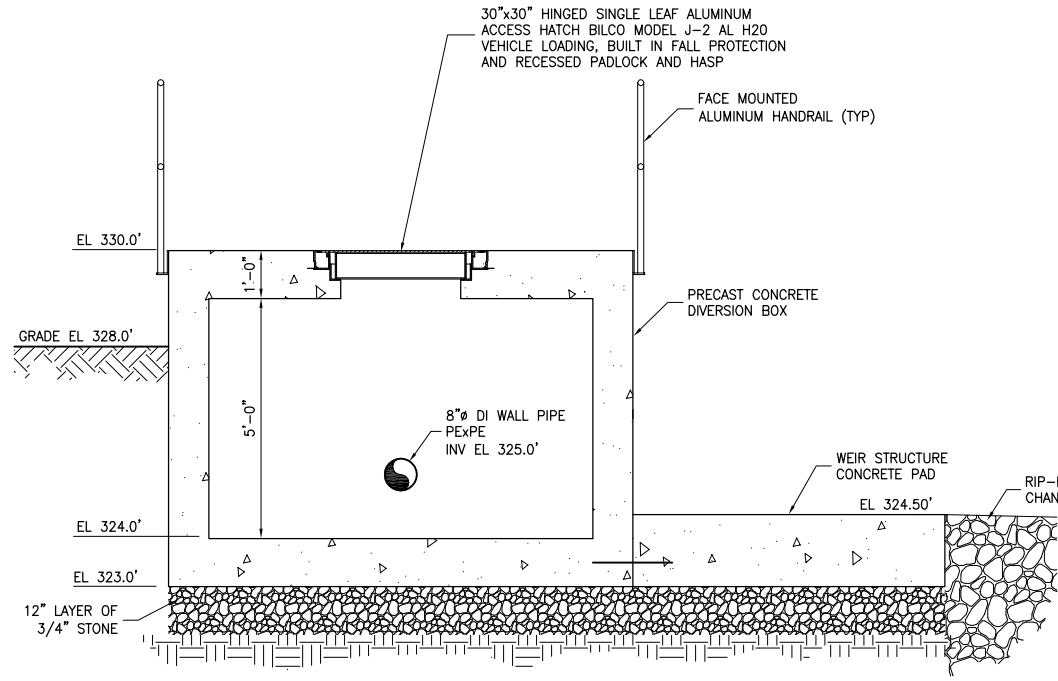
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|--|-------------|---------|------------|
| <b>WARNING</b>   |             |         |            |
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| No.  | DESCRIPTION | DATE    | BY         |
| REVISIONS  |             |         |            |
| DRAWN  | MSA         | SCALE   | AS SHOWN   |
| DESIGNED   | MS          | JOB No. | 48649.WO12 |
| APPROVED   | SH          | DATE    | JUL. 2015  |



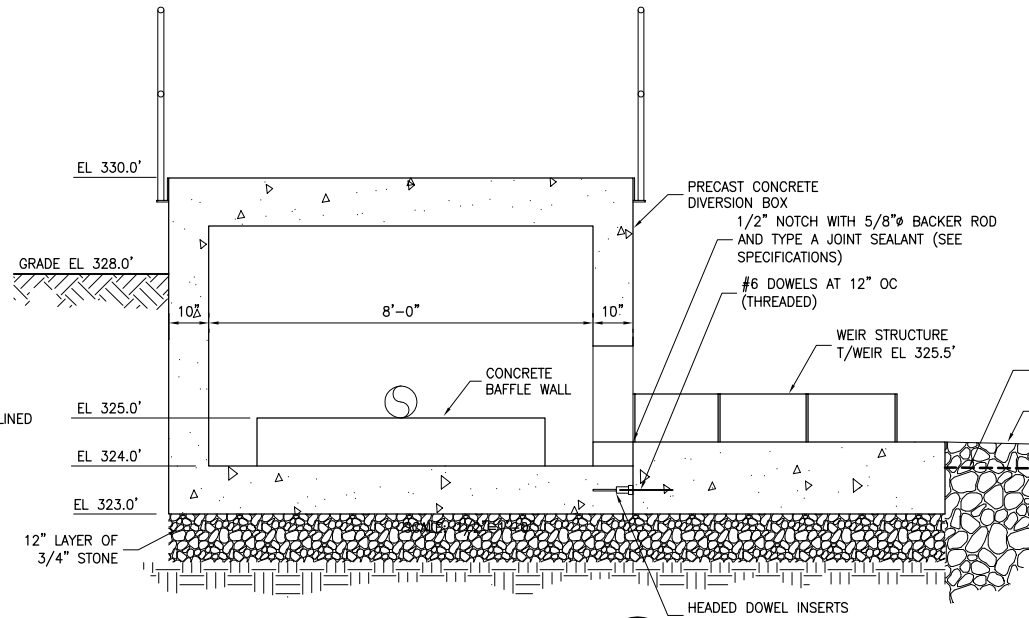
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**CITY OF NEW YORK**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
BUREAU OF WATER SUPPLY  
CONTRACT CRO-420  
FAD RELATED STPRMWER CONTROL  
DREWVILLE ROAD, NEW YORK

TITLE  
**DIVERSION BOX**  
**STRUCTURAL PLANS**

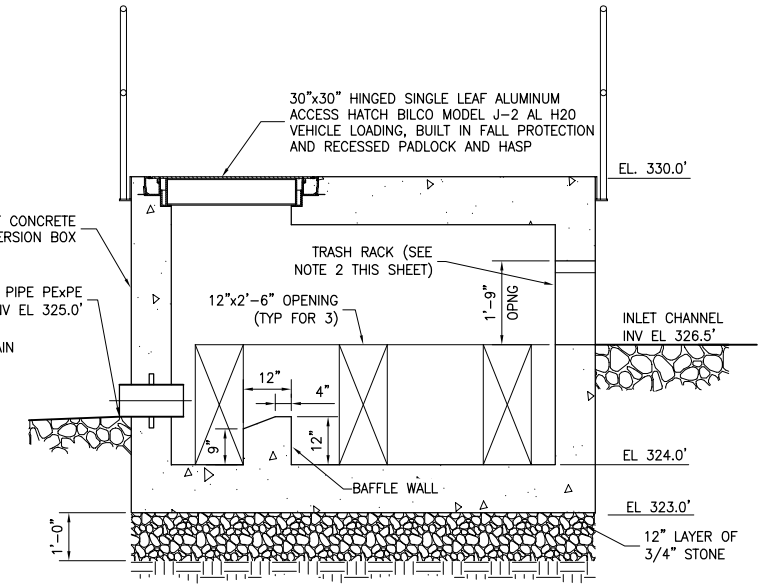
SHEET No.  
**S-01**



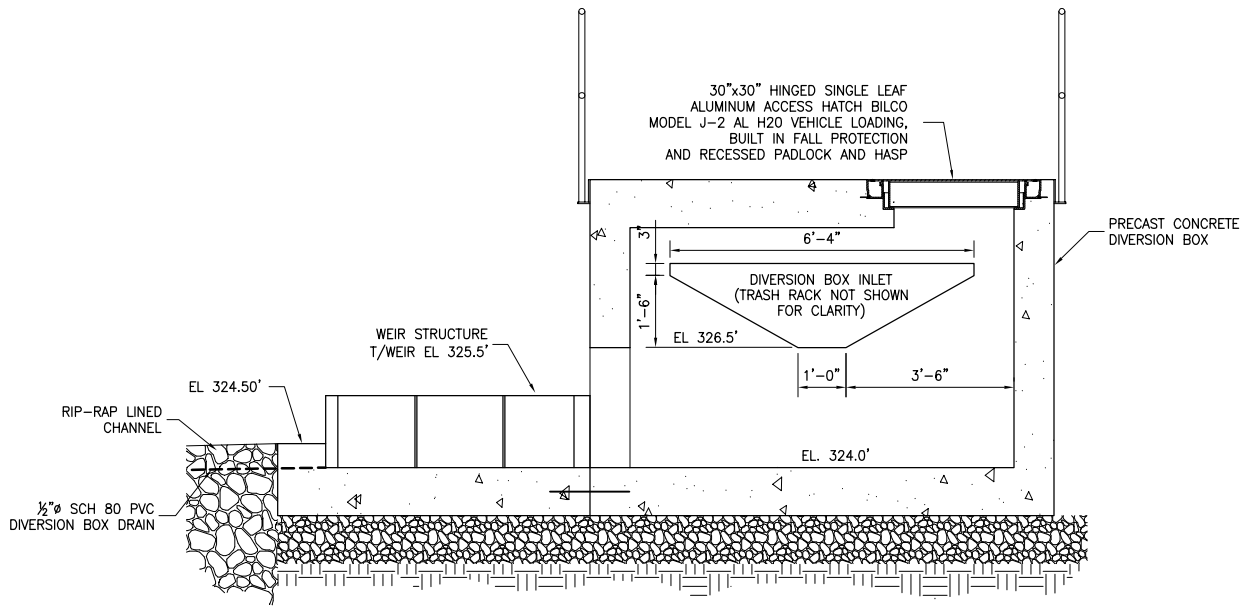
**SECTION A**  
SCALE: 1/2"=1'-0"  
S-01



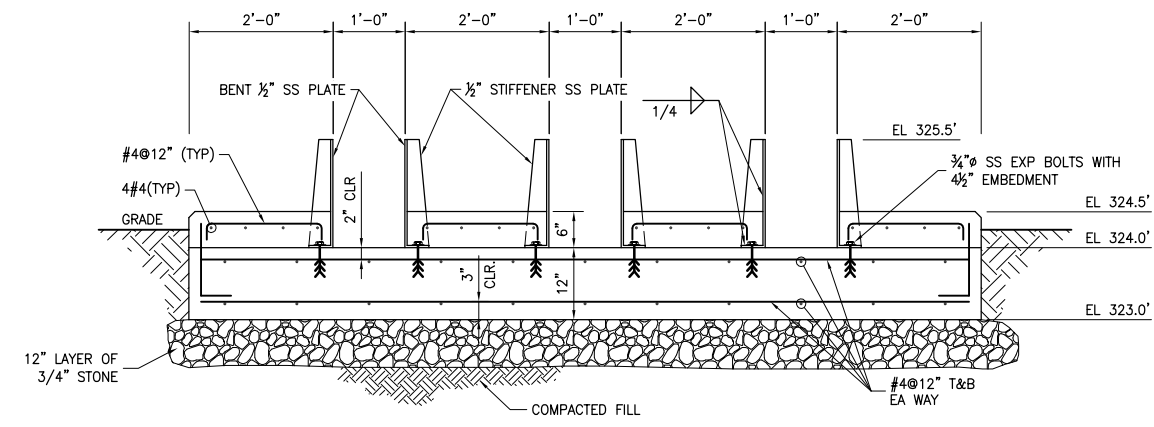
**SECTION B**  
SCALE: 1/2"=1'-0"  
S-01



**SECTION C**  
SCALE: 1/2"=1'-0"  
S-01



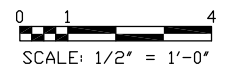
**SECTION D**  
SCALE: 1/2"=1'-0"  
S-01



**SECTION E**  
SCALE: 3/4"=1'-0"  
S-01

**NOTES:**

- CAST IN PLACE CONCRETE SHALL BE NORMAL WEIGH CLASS 40LW, SEE SPECIFICATIONS.
- TRASH RACK SHALL BE HOT DIPPED GALVANIZED FABRICATED USING #4 REBAR. BAR SPACING SHALL BE 3" HORIZONTAL AND VERTICAL. ATTACHMENT TO DIVERSION BOX SHALL BE THE PRECASTERS RESPONSIBILITY.



07/21/15 9:12am FILE= K:\PROJECTS\48649\WO-12\Drawings\RA\Design\_2015\S-02\_Diversion\_Box\_Sections.dwg by LAMORNIK XREFS=48649\_ITL1ESHT.

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| DRAWN    | MSA | SCALE   | AS SHOWN   |
| DESIGNED | MS  | JOB No. | 48649.WO12 |
| APPROVED | SH  | DATE    | JUL. 2015  |



PROJECT  
**CITY OF NEW YORK**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
BUREAU OF WATER SUPPLY  
CONTRACT CRO-420  
FAD RELATED STPRMWER CONTROL  
DREWVILLE ROAD, NEW YORK

TITLE  
**DIVERSION BOX**  
**STRUCTURAL SECTIONS**

SHEET No.  
**S-02**



ZARECKI  
&  
ASSOCIATES, L.L.C.

Engineers • Architects  
Surveyors

Joseph Zarecki, PE  
Jeffrey Hecker, LS  
Curt Johnson, RA

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Website: zarecki.com  
email: info@zarecki.com

Ridgefield, CT  
(203) 438-7094  
(203) 438-7157 Fax

July 28, 2015

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

Re: Cargain Funeral Home  
Amended Site Plan and Lot Line Realignment  
418 US Route 6  
Town of Carmel, Putnam County  
Tax Map #: 75.15-1-6 & 75.15-1-8 (Lot Line Realignment)  
75.15-1-6 (Amended Site Plan)

Dear Chairman Gary and Members of the Planning Board:

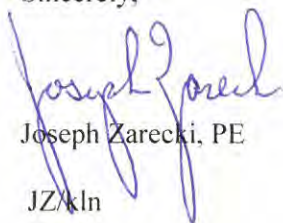
In September 2014, our office had submitted to the Planning Board an Amended Site Plan application for the above referenced project as well as a Lot Line Realignment between Thomas Fisher, Inc. and Joseph E. Simone.

The Planning Board subsequently prepared comments to both of the submittals, which our office had responded to (see enclosed detailed packages) and resubmitted to the Planning Board on October 29, 2014. Unfortunately, the Planning Board was unable to place this project on their agenda at that time.

We are enclosing for your convenience copies of our original submittal as well as the responses to the comments received from the Town Engineer and Code Enforcement Officer. At this time, we are respectfully requesting to be placed on the Wednesday, August 12, 2015 Planning Board agenda for both the Amended Site Plan and Lot Line Realignment.

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

Sincerely,



Joseph Zarecki, PE  
JZ/kln

enc.

cc: Client



ZARECKI  
&  
ASSOCIATES, LLC

Engineers • Architects  
Surveyors

Joseph Zarecki, PE  
Jeffrey Hecker, LS  
Curt Johnson, RA

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Ridgefield, CT  
(203) 438-7094  
(203) 438-7157 Fax

October 29, 2014

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

Re: Cargain Funeral Home - Amended Site Plan  
418 US Route 6  
Town of Carmel, Putnam County  
Tax Map #: 75.15-1-6

Dear Chairman Gary and Members of the Planning Board:

This letter is in response to the memorandum dated October 22, 2014 from Mr. Richard J. Franzetti, PE, Town Engineer regarding his comments from our October 2, 2014 submittal for the Amended Site Plan for the above referenced project. Please note that our responses to the comments are in **bold print**.

The following is enclosed for your review:

- Cover Sheet, Prepared for Cargain Funeral Homes, Inc., Sheet 1 of 9, dated September 30, 2014
- Amended Site Plan & Landscaping Plan, Prepared for Cargain Funeral Homes, Inc., Sheet 2 of 9, dated August 28, 2014; last revised October 28, 2014
- Existing Conditions, Demolition & Tree Plan, Prepared for Cargain Funeral Homes, Inc., Sheet 3 of 9, dated August 28, 2014
- Grading & Utility Plan, Prepared for Cargain Funeral Homes, Inc., Sheet 4 of 9, dated August 28, 2014; last revised October 28, 2014
- Sediment & Erosion Control Plan, Prepared for Cargain Funeral Homes, Inc., Sheet 5 of 9, dated August 28, 2014
- Retaining Wall Plan, Prepared for Cargain Funeral Homes, Inc., Sheet 6 of 9, dated August 28, 2014
- Lighting Plan & Details, Prepared for Cargain Funeral Homes, Inc., Sheet 7 of 9, dated August 28, 2014
- Site Details, Prepared for Cargain Funeral Homes, Inc., Sheet 8 of 9, dated August 28, 2014; last revised October 28, 2014
- Construction Phasing Plan, Prepared for Cargain Funeral Homes, Inc., Sheet 9 of 9, dated August 28, 2014



- Retaining Wall Rendering, Prepared for Cargain Funeral Homes, Inc., Sheet 1 of 1, dated October 31, 2014

## II. Detailed Comments

1. The snow storage area should be pervious pavement.  
**Response: It is our opinion that having an impervious pavement area would be more appropriate in that location due to concerns that runoff would infiltrate and undermine the adjoining parking lot.**
2. Consider removal of curb stops as the entire area is curbed. Curb stops are prone to damage during snow removal.  
**Response: Please note that anchors have been provided in the curb stops to help prevent damage during snow removal .**
3. Curbs should be concrete or cobble stone as asphalt curbs are prone to damage during snow removal.  
**Response: As requested, the asphalt curbs have been removed from the plan and replaced with reinforced concrete curbs.**
4. Protection should be provided for the proposed pedestrians walkways. The walkway should be relocated out of the 24' travel way.  
**Response: Comment acknowledged. The Owner will provide traffic safety cones to remain at the facility at all times. During an event, the traffic safety cones to be set along the hatched area(s) for the protection of the pedestrians as shown on the "Amended Site Plan & Landscaping Plan" Sheet 2 of 9. A note has also been added to Sheet 2 of 9 under General Notes #2 stating the same.**
5. Parking on east side in front of the building should be eliminated.  
**Response: The parking on the east side in front of the building is existing and therefore the Owner is not proposing any modifications the parking on the east side of the front of the building.**
6. It is unclear how swales on top of retaining walls will capture stormwater as a pervious swale will allow water to go behind the wall and not into the dry wells. Design of swales should be provided.  
**Response: The eight (8) inch PVC underdrains will be tied into the catch basins located behind the wall to collect excess stormwater runoff. The sizing of the swale was to not allow the water to overtop the wall and drain directly into the parking lot.**
7. Details regarding wall facade should be provided.  
**Response: The wall facade will be a stone veneer, at this time, the Owner has not made a final selection on the type of stone.**
8. Visual impacts of the walls look from the road should be provided.  
**Response: As requested, to better assist the Planning Board, please see the enclosed Retaining Wall Rendering, Sheet 1 of 1 showing the visual impacts of the retaining wall.**
9. Design details for the dry well should be provided. This includes but is not limited to the location and amount gravel being used.  
**Response: As requested, details have been provided for dry wells on the Grading & Utility Plan, Sheet 4 of 9.**

10. Perc tests for dry well should be provided.  
**Response: The dry wells onsite were sized based upon the previously approved Amended Site Plan for Cargain Funeral Home.**
11. Invert of the existing Storm drain on Route 6 should be provided to ensure that the proposed drainage will work.  
**Response: The invert has been provided on the Grading and Utility Plan, Sheet 4 of 9.**
12. The lighting spill plan should include the lights located in front and on the east side of the building.  
**Response: The existing lights at the front of the building are existing and provide adequate lighting for the building, the Owner is not proposing to replace the lighting in front and on the east side of the building.**
13. The NYSDOT right of ways limits should be provided.  
**Response: The NYSDOT right of way limits are along the property line at the front of the site, a note on the Amended Site and Landscaping Plan, Sheet 2 of 9 has been added to indicate this location.**
14. All planting should be verified by the Town of Carmel Wetlands Inspector.  
**Response: Comment acknowledged. If deemed necessary, we respectfully request the Planning Board forward the appropriate plan(s) to the Town of Carmel Wetlands Inspector.**
15. The location of the stabilized construction entrance and the erosion control matting is not shown on the drawing.  
**Response: As requested, the location of the stabilized construction entrances are now shown on Construction Phasing Plan, Sheet 9 of 9 and the erosion control matting is shown on the Sediment and Erosion Control Plan, Sheet 5 of 9.**
16. Construction sequence information should be provided on the drawings.  
**Response: Please note that a Construction Phasing Plan have been added to the drawing set, Sheet 9 of 9.**
17. The Stormwater flow patterns should be provided. They are not provided in the SWPPP.  
**Response: Stormwater flow patterns were included in the Erosion & Sediment Control SWPPP in Figure 1 - Post Watershed Map, dated August 28, 2014; last revised September 30, 2014 as previously submitted.**
18. Rainfall depth for the 1 year storm is 3.1 inches. All design calculations should be updated accordingly.  
**Response: Design calculations have been updated to reflect 1-year storm 3.1 inches and were also provided in the Erosion & Sediment Control SWPPP, dated August 30, 2014; last revised September 30, 2014 as previously submitted.**
19. The applicant should add an island on the west side of the site (similar to one in front of the site) and extend and round the curve on the east side of the property.  
**Response: While the existing exit on the west side of the site does not have a curb along the pavement, the existing asphalt does curve similar to the eastern entrance to the site. The Owner is not currently proposing the installation of curbing due to the fact that the area is located within the NYSDOT right of way.**

Please do not hesitate to contact me should you have any questions or require any additional information.

Sincerely,

Joseph Zarecki, PE  
A handwritten signature in black ink that reads "Joseph Zarecki, PE". The signature is written in a cursive style. Below the signature, the initials "JZ" are circled in black ink.

Joseph Zarecki, PE

JZ/kln

enc.

cc: Client

2014.010

ZARECKI  
&  
ASSOCIATES, L.L.C.

Engineers • Architects  
Surveyors

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October 31, 2014

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

Re: Cargain Funeral Home - Amended Site Plan  
418 US Route 6  
Town of Carmel, Putnam County  
Tax Map #: 75.15-1-6

Dear Chairman Gary and Members of the Planning Board:

This letter is in response to the memorandum dated October 22, 2014 from Mr. Michael G. Carnazza, Director of Code Enforcement regarding his comments from our October 2, 2014 submittal for the Amended Site Plan for the above referenced project. Please note that our responses to the comments are in **bold print**.

- Provide a setback line at the retaining wall to insure compliance with zoning. Any wall 6 ft. tall or more must meet the setback requirements.  
**Response: See Retaining Wall Plan, Sheet 6 of 9, showing the setback line which in is compliance with the zoning requirements.**

Please do not hesitate to contact me should you have any further questions or require any additional information.

Sincerely,

Joseph Zarecki, PE  


Joseph Zarecki, PE

JZ/kln

enc.

cc: Client

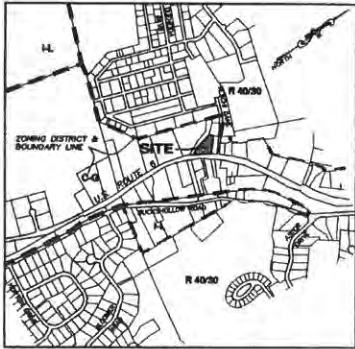


# AMENDED SITE PLAN

## PREPARED FOR

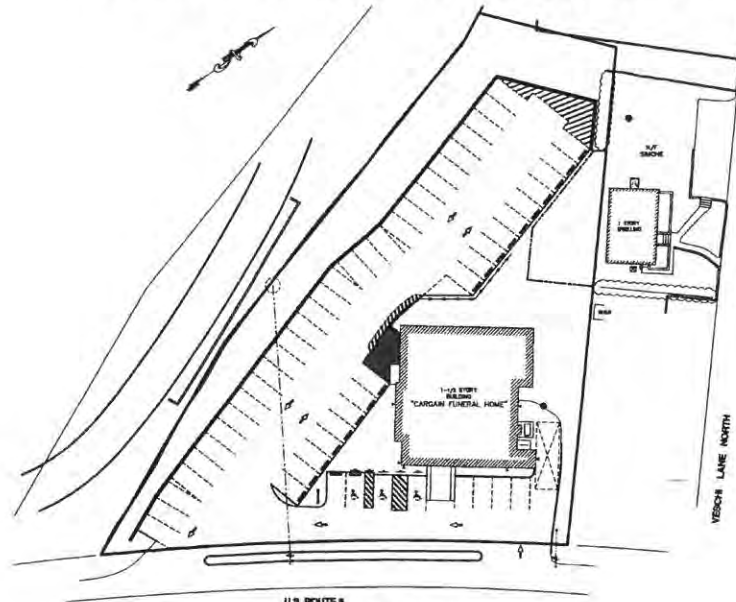
# CARGAIN FUNERAL HOMES, INC

SITUATE IN THE  
TOWN OF CARMEL  
PUTNAM COUNTY, NEW YORK  
PREPARED: SEPTEMBER 30, 2014



VICINITY MAP  
SCALE: 1"=500'

| DRAWING INDEX                               |           |            |              |
|---|-----------|------------|--------------|
| NAME OF DRAWING                             | SHEET NO. | ISSUE DATE | REVISED DATE |
| COVER SHEET                                 | 1 OF 9    | 09/30/2014 |              |
| AMENDED SITE PLAN & LANDSCAPING PLAN        | 2 OF 9    | 09/28/2014 | 10/28/2014   |
| EXISTING CONDITIONS, DEMOLITION & TREE PLAN | 3 OF 9    | 09/28/2014 | 10/28/2014   |
| GRADING & UTILITY PLAN                      | 4 OF 9    | 09/28/2014 | 10/28/2014   |
| SEWERAGE & SANITATION SYSTEMS PLAN          | 5 OF 9    | 09/28/2014 |              |
| RETAINING WALL PLAN                         | 6 OF 9    | 09/28/2014 |              |
| LANDING FLIGHT & DETAILS                    | 7 OF 9    | 09/28/2014 |              |
| SITE DETAILS                                | 8 OF 9    | 09/28/2014 | 10/23/2014   |
| CONSTRUCTION PHASING PLAN                   | 9 OF 9    | 10/28/2014 |              |

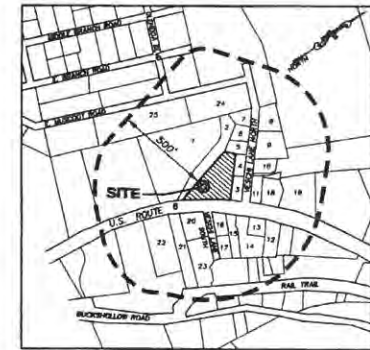


### SITE DATA

TAX MAP DESIGNATION: 75-15-1-6  
TOWN ZONING: CG-COMMERCIAL  
TOTAL LOT AREA: 1.045 ACRES

OWNER/APPLICANT:  
THOMAS FISHER, INC  
10 FOWLER AVE  
CARMEL, NEW YORK 10512

PREPARED BY:  
ZARECKI & ASSOCIATES, L.L.C.  
CONSULTING ENGINEERS-LAND SURVEYORS-ARCHITECTS  
PAWLING, N.Y. 12564 & RIDGEFIELD, C.T. 06877  
(845) 855-3771 (203) 438-7094



LOCATION MAP  
SCALE: 1"=500'

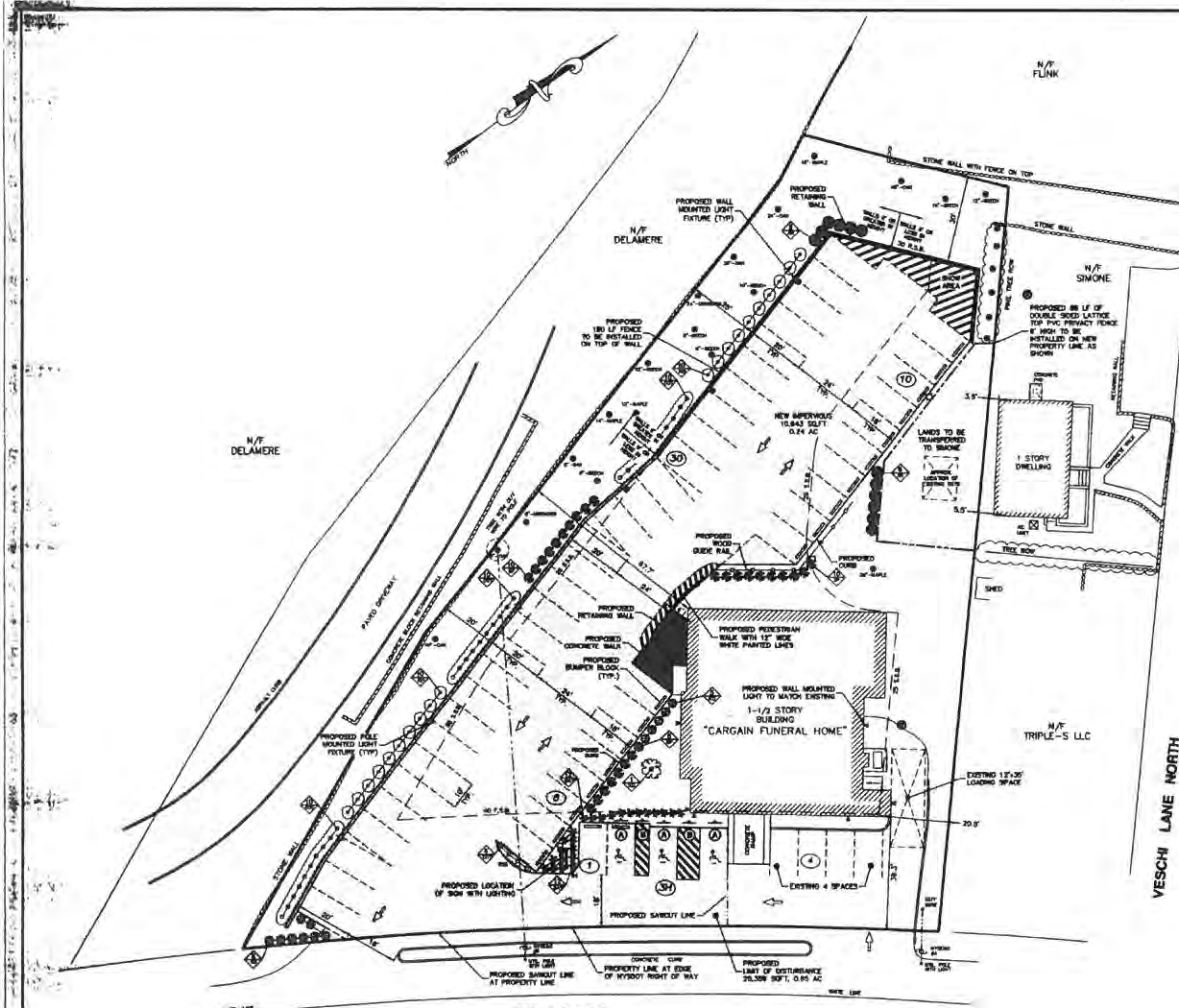
### ADJACERS WITHIN BOW OF SITE

|  |   |   |
|--|---|---|
| 1. PATRICK J. DELAMORE<br>TAX MAP # 75-15-1-4<br>P.O. BOX 705<br>MAHOOPAC, NEW YORK 10541        | 11. JOSEPH E. SHOME<br>TAX MAP # 75-15-1-18<br>3 HAZEN LANE<br>MAHOOPAC, NEW YORK 10512             | 21. MICHAEL STERN<br>TAX MAP # 75-20-2-3<br>888 ROUTE 8<br>MAHOOPAC, NEW YORK 10541                 |
| 2. KAREN F. DELAMORE<br>TAX MAP # 75-15-1-5<br>P.O. BOX 705<br>MAHOOPAC, NEW YORK 10541          | 12. THOMAS SHOME<br>TAX MAP # 75-15-1-21<br>100 BLACKBELLOW ROAD<br>MAHOOPAC, NEW YORK 10541        | 22. CONNELL PROPERTIES, INC.<br>TAX MAP # 75-20-2-4<br>18 TOWNSEND ROAD<br>TOWNSEND, NEW YORK 10710 |
| 3. THOMAS E. L.L.C.<br>TAX MAP # 75-15-1-7<br>422 ROUTE 8<br>MAHOOPAC, NEW YORK 10541            | 13. SCOTT WINDERS<br>TAX MAP # 75-15-1-22<br>427 ROUTE 8<br>MAHOOPAC, NEW YORK 10541                | 23. M&P BROS.<br>TAX MAP # 75-20-2-2<br>6 SOUTH VESCH ROAD<br>MAHOOPAC, NEW YORK 10541              |
| 4. JOSEPH E. SHOME<br>TAX MAP # 75-15-1-8<br>7 NORTH VESCH LANE<br>MAHOOPAC, NEW YORK 10541      | 14. SCOTT WINDERS<br>TAX MAP # 75-15-1-23<br>131 WEATHER DRIVE<br>MAHOOPAC, NEW YORK 10541          | 24. ANTHONY MORGANO<br>TAX MAP # 75-28-1-3<br>28 EAST WOODSTOCK ROAD<br>MAHOOPAC, NEW YORK 10541    |
| 5. ADOLF FLANK<br>TAX MAP # 75-15-1-9<br>P. O. BOX 590<br>MAHOOPAC, NEW YORK 10541               | 15. JACQUE REALTY CORPORATION<br>TAX MAP # 75-18-1-24<br>P.O. BOX 857<br>MAHOOPAC, NEW YORK 10541   | 25. MELVIN MENTHAUER<br>TAX MAP # 75-28-1-10<br>40 WOODLICK ROAD<br>ELMSFORD, NEW YORK 10523        |
| 6. FRANK BELCA<br>TAX MAP # 75-15-1-10<br>17 NORTH VESCH LANE<br>MAHOOPAC, NEW YORK 10541        | 16. LILIAN BARILE<br>TAX MAP # 75-16-1-25<br>888 ROUTE 8<br>MAHOOPAC, NEW YORK 10541                |   |
| 7. ROBERT A. PLACK<br>TAX MAP # 75-15-1-11<br>19 NORTH VESCH LANE<br>MAHOOPAC, NEW YORK 10541    | 17. DEBORAH A. DEESARE<br>TAX MAP # 75-18-1-26<br>20 STAMMERFIELD LANE<br>MAHOOPAC, NEW YORK 10541  |   |
| 8. JOSEPH E. TRICHALI<br>TAX MAP # 75-15-1-12<br>20 NORTH VESCH LANE<br>MAHOOPAC, NEW YORK 10541 | 18. KELLY REALTY, INC.<br>TAX MAP # 75-18-1-31<br>20 WYMAN ROAD<br>PATERSON, NEW YORK 12843         |   |
| 9. KATE J. ORCINO<br>TAX MAP # 75-15-1-13<br>14 NORTH VESCH LANE<br>MAHOOPAC, NEW YORK 10541     | 19. ERIC GRUBER<br>TAX MAP # 75-16-1-32<br>434 ROUTE 8<br>MAHOOPAC, NEW YORK 10541                  |   |
| 10. TRAVIS S. MOLL<br>TAX MAP # 75-15-1-14<br>10 NORTH VESCH LANE<br>MAHOOPAC, NEW YORK 10541    | 20. RICHARD SOULOVENSON<br>TAX MAP # 75-15-1-14<br>248 BLACKBELLOW ROAD<br>MAHOOPAC, NEW YORK 10541 |   |



COVER SHEET  
FOR  
**CARGAIN FUNERAL HOMES, INC**  
TOWN OF CARMEL, PUTNAM COUNTY, NEW YORK

SCALE: AS SHOWN APPROVED BY: [Signature] DRAWN BY: AS  
DATE: 09/28/2014 PROJECT NO.: 2014010 DESIGN BY: C&A  
**ZARECKI & ASSOCIATES, L.L.C.**  
Consulting Engineers, Land Surveyors, Architects  
11 Wood Lane N. Pawling NY 12564 Mahopac, CT 06877  
MAHOOPAC, NY 10541 SHEET No. 1 OF 9



**SCHEDULE OF BULK REQUIREMENTS**  
ZONE C-3 - COMMERCIAL DISTRICT

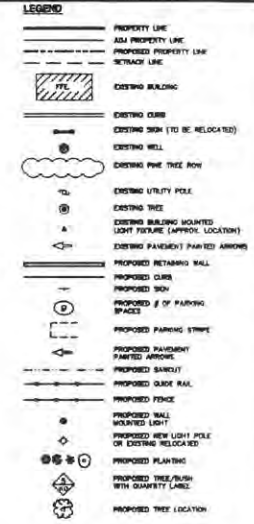
| ITEM   | REQUIRED | EXISTING | PROPOSED |
|--|----------|----------|----------|
| MINIMUM LOT SIZE (SQUARE FEET)                       | 45,000   | 45,500   | 43,570*  |
| MINIMUM ROAD FRONTAGE (FEET)                         | 100      | 107.88   | 20.88    |
| MINIMUM 5' OF LOT SETBACK SIDEWALK CORNER BY BALANCE | 50       | 11.5     | 11.5     |
| <b>MINIMUM YARD SETBACKS (FEET)</b>                  |          |          |          |
| - FRONT  | 40       | 38.34    | 38.34    |
| - SIDE   | 20       | 20.84    | 20.84    |
| - REAR   | 20       | 10.80    | 10.80    |
| - CORNER   | 35       | 31       | 31       |
| MAXIMUM BUILDING HEIGHT (FEET)                       | 35       | 31       | 31       |
| AVERAGE LOT DEPTH (FEET)                             | 300      | 285      | 285      |
| AVERAGE LOT WIDTH (FEET)                             | 300      | 153.44   | 153.44   |
| OFF-STREET PARKING                                   |          |          |          |
| 1 SPACE PER 200 SF                                   | 25       | 25       | 24       |
| 5000/200   | 1        | 1        | 1        |
| LOADING  | 1        | 1        | 1        |

\* AFTER APPROVED LOT LINE ADJUSTMENT APPLICATION (SEE LAYOUT PLAN)  
\*\* PER EXISTING  
\*\*\* VARIANCE GRANTED ON 04/23/1998

**PLANTING SCHEDULE**

| KEY | QUANTITY | BOTANICAL / COMMON NAME                           | SIZE (INCH)   | ROOT  | SPACING | REMARKS |
|-----|----------|---|---------------|-------|---------|---------|
| RD  | 1        | COMBES HOLLS / HOLLS DOWNWOOD                     | 3" CALIPER    | B & B | ---     | ---     |
| SH  | 30       | BRIDGEMAN YAM / P.M. BRIDGEMAN                    | 3 GALLON      | CONT. | 6' O.C. | ---     |
| SP  | 28       | SPIREA "ANTHONY WATERER" / ANTHONY WATERER SPIREA | 2" - 3 HT     | CONT. | 4' O.C. | ---     |
| COY | 34       | COTONEASTER DAMMER 'LOWFAS' / LOWFAS COTONEASTER  | 3 GALLON      | CONT. | 4' O.C. | ---     |
| DAY | 24       | HEMODICALIS 'HYPERION' / DAYLILY                  | 18" - 24" HT. | B & B | 3' O.C. | ---     |
| RD  | 13       | ROSA 'RAMAZZI' / RED KNOCKOUT ROSE                | 36" - 48" HT. | CONT. | 4' O.C. | ---     |
| AR  | 12       | BEGONIA OCCIDENTALIS / ORNAMENTAL GREEN ARBOREAL  | 36" - 48" HT. | B & B | 4' O.C. | ---     |

- PLANTING NOTES:**
- TREES SHALL BE PLANTED IN ACCORDANCE WITH THE APPROVED TREE PLAN, BASED ON THE POTENTIAL ROOT GROWTH OF THE TREE TO BE PLANTED, BUT IN NO CASE CLOSER THAN SIX FEET TO ANY ROAD, PARKING AREA, STRUCTURE OR OTHER IMPROVEMENT OR IN ANY MANNER WHICH WILL CAUSE OBSTRUCTION TO TRAFFIC OR VIOLATE ANY APPLICABLE TOWN REGULATIONS.
  - TREES SHALL BE BALLED AND UNPLANTED AND SHALL NOT BE LESS THAN TWO (2) TO THREE (3) INCHES CALIPER, MEASURED SIX INCHES ABOVE THE TOP OF THE BALL, NOR LESS THAN 10 FEET HIGH. THEY MUST BE WELL-BRANCHED, THE BRANCHES TO START NOT LESS THAN SIX FEET FROM THE CROWN OF THE ROOT SYSTEM. TREES SHALL BE HARDY, GROWN, AND A HARDY INSPECTOR CERTIFICATE SHALL BE AVAILABLE COVERING ALL TREES.
  - IN GENERAL, SPECIFICATIONS FOR PLANTING SHALL BE AT LEAST ONE FOOT DEEPER AND TWO FEET WIDER THAN THE BALL OF EARTH SUPPLIED WITH THE TREE. THE PIT SHALL BE FOUR FEET AND FIFTEEN INCHES WIDE FROM THE TOP OF THE BALL, AND ONE PART INCH AND THE PARENT SOIL, DISCARDED HANDED SHALL BE LOCATED FOR AN ADDITIONAL 12 INCHES FROM THE BOTTOM OF THE PIT. TREES SHALL BE ANNUALLY FERTILIZED AND WATERED AT THE TIME OF PLANTING AND MAINTAINED WITH THREE INCHES OF APPROVED MULCH IMMEDIATELY AFTER PLANTING. MULCH SHALL BE PLACED WITHIN A TYPICAL SAUCER THREE INCHES DEEP AND AS LARGE AS THE PIT IN DIAMETER.
  - TREES SHALL BE BALLED AND SHIPPED IMMEDIATELY AFTER PLANTING. TREES SHALL BE BOUND BY ONE (1) INCH STRIPS OF STRIP, NO LESS THAN TWO INCHES IN DIAMETER AND DRIVEN INTO THE BOTTOM OF THE TREE. TREES SHALL BE WATERED TO THE STAGES FROM NO. 15 WITH CORDED WITH NUMBER HOSE OR EQUAL. THE WIRE SHALL BE FASTENED TO THE STAKE IN SUCH A MANNER THAT IT WILL NOT SLIP OR COME INTO CONTACT WITH THE TREE TRUNK. THE TRUNK OF THE TREE SHALL BE PROTECTED WITH TREE WRAPPING PAPER.
  - REMOVAL OF EXCESSIVE TREES FROM THE PROPERTY SHALL BE LEFT IN A NEAT AND ORDERLY CONDITION IN ACCORDANCE WITH GOOD AND ACCEPTED PRACTICES AND THE SUBURBAN PRACTICE.
  - TREES SHALL NOT BE PLANTED BETWEEN MAY 15 AND SEPTEMBER 15 WITHOUT SPECIFIC AUTHORIZATION OF THE PLANNING BOARD.
  - NOTICE MUST BE GIVEN TO THE PLANNING BOARD 30 DAYS PRIOR TO THE START OF PLANTING IN ORDER THAT THE PLANTS AND TREES MAY BE INSPECTED AND APPROVED FOR TREE VARIETY, CONDITION, SIZE AND QUALITY. ALL WORK SHALL BE SUBJECT TO THE GENERAL SUPERVISION AND APPROVAL OF THE PLANNING BOARD.
  - ANY TREE SPECIFICALLY PLANTED OR NOT MEETING THE SPECIFICATIONS OF THE TREE PLAN AND THE CALIPER WILL BE DISCARDED UPON WRITTEN BOARD OF THE PLANNING BOARD AND REPLACED WITH PROPERLY PLANTED TREES THAT MEET THE SPECIFICATIONS OF THE TREE PLAN AND THIS CHART. ANY TREE THAT IS NOT PLANTED OR IS IN AN UNDESIRABLE CONDITION AT THE END OF ONE YEAR SHALL BE REPLACED BY THE OWNER OF THE PROPERTY AT NO COST TO THE TOWN OF CARMEL. THIS REPLACEMENT SHALL BE COMPLETED WITHIN 90 DAYS FOLLOWING WRITTEN BOARD FOR EACH REPLACEMENT OR WITHIN A MORE EXTENDED PERIOD AS MAY BE SPECIFIED BY THE PLANNING BOARD.



**SITE DATA:**  
TOWN TAX MAP DESIGNATION: 75-15-1-4  
EXISTING TOWN ZONING DISTRICT: ZC-COMMERCIAL  
TOTAL LOT AREA: 1.044 ACRES  
TOTAL LOT AREA: 45,500 SQ. FT.  
OWNER: CARGAIN FUNERAL HOMES, INC.  
ADDRESS: 100 VESCHI LANE, CARMEL, NY 12012  
USE: FUNERAL HOME  
NO. OF EMPLOYEES: 6

**AMENDED SITE PLAN NOTE:**  
1. THE AMENDED SITE PLAN APPLICATION IS FOR THE EXISTING APPROVED SITE PLAN PREPARED FOR CARGAIN FUNERAL HOMES, INC. DATED 07/15/1998.

- MAP REFERENCE NOTES:**
- PROPERTY LINES SHOWN HEREON TAKEN FROM ACTUAL FIELD SURVEY BY ZARECKI & ASSOCIATES, L.L.C. ON APRIL 21, 2014.
  - LANDSCAPING INFORMATION SHOWN HEREON PREPARED BY ZARECKI & ASSOCIATES, L.L.C. IN APRIL, 2014 ASSIGNED DATA.
  - DESIGNER AND ASSOCIATES, L.L.C. IN APRIL, 2014 ASSIGNED DATA.
  - THIS MAP IS NOT TO BE USED FOR OTHER PURPOSES.
  - THIS MAP IS NOT A GUARANTEE OF ACCURACY OR INSURANCE. CHANGE OF FLOOD AREA OF THE ANNUAL CHANCE FLOODS ON THE MAP IS NOT TO BE USED FOR OTHER PURPOSES. FLOOD AREAS LESS THAN ONE SQUARE MILE AND AREAS PROTECTED BY LEVEES FROM THE ANNUAL CHANCE FLOODS, AS SHOWN ON THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP FOR THE TOWN OF CARMEL, NY PUTNAM COUNTY, COMMUNITY NUMBER 32008 PANEL 208 OF 238 MAP SHEET E, EFFECTIVE DATE MARCH 4, 2013.

**GENERAL NOTES:**

- REFER TO ENVIRONMENTAL POLLUTION PREVENTION PLAN FOR CONSTRUCTION PHASING.
- OWNER WILL PROVIDE TEMPORARY SAFETY CONES ALONG PEDESTRIAN WALKWAYS AND SIGN AREA DURING EVENTS.

**CONSENT NOTE**  
THE UNDERSIGNED (OWNER) OF THE PROPERTY AND APPLICANT(S) OF THE PROJECT HEREBY STATE THAT THEY ARE FAMILIAR WITH THIS MAP, ITS CONTENTS AND ITS LIMITS AND HEREBY CONSENT TO ALL SAID TERMS AND CONDITIONS AS STATED HEREON.

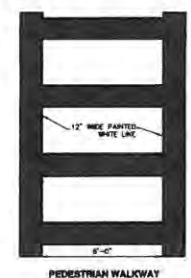
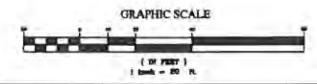
SIGNED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_  
BY: \_\_\_\_\_  
BY: \_\_\_\_\_

**TOWN OF CARMEL PLANNING BOARD APPROVAL**  
APPROVED BY RESOLUTION OF THE PLANNING BOARD OF THE TOWN OF CARMEL, NEW YORK, ON THE \_\_\_\_\_ DAY OF \_\_\_\_\_, 2014, AS APPROVED, SHALL VOID THIS APPROVAL.

SIGNED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_  
BY: \_\_\_\_\_ CHAIRMAN  
BY: \_\_\_\_\_ SECRETARY

**SIGN TABLE**

| DESIGNATION NUMBER | SIZE      | DESCRIPTION   | MOUNTING TYPE | MOUNTING HEIGHT | REGULATORY HEIGHT | REFLECTORIZED |
|--------------------|-----------|---------------|---------------|-----------------|-------------------|---------------|
| A                  | 12" x 18" | BLUE ON WHITE | STEEL CHANNEL | 7'-0"           | 88'-1"            | YES           |
| B                  | 12" x 18" | RED ON WHITE  | STEEL CHANNEL | 7'-0"           | 87'-1"            | YES           |



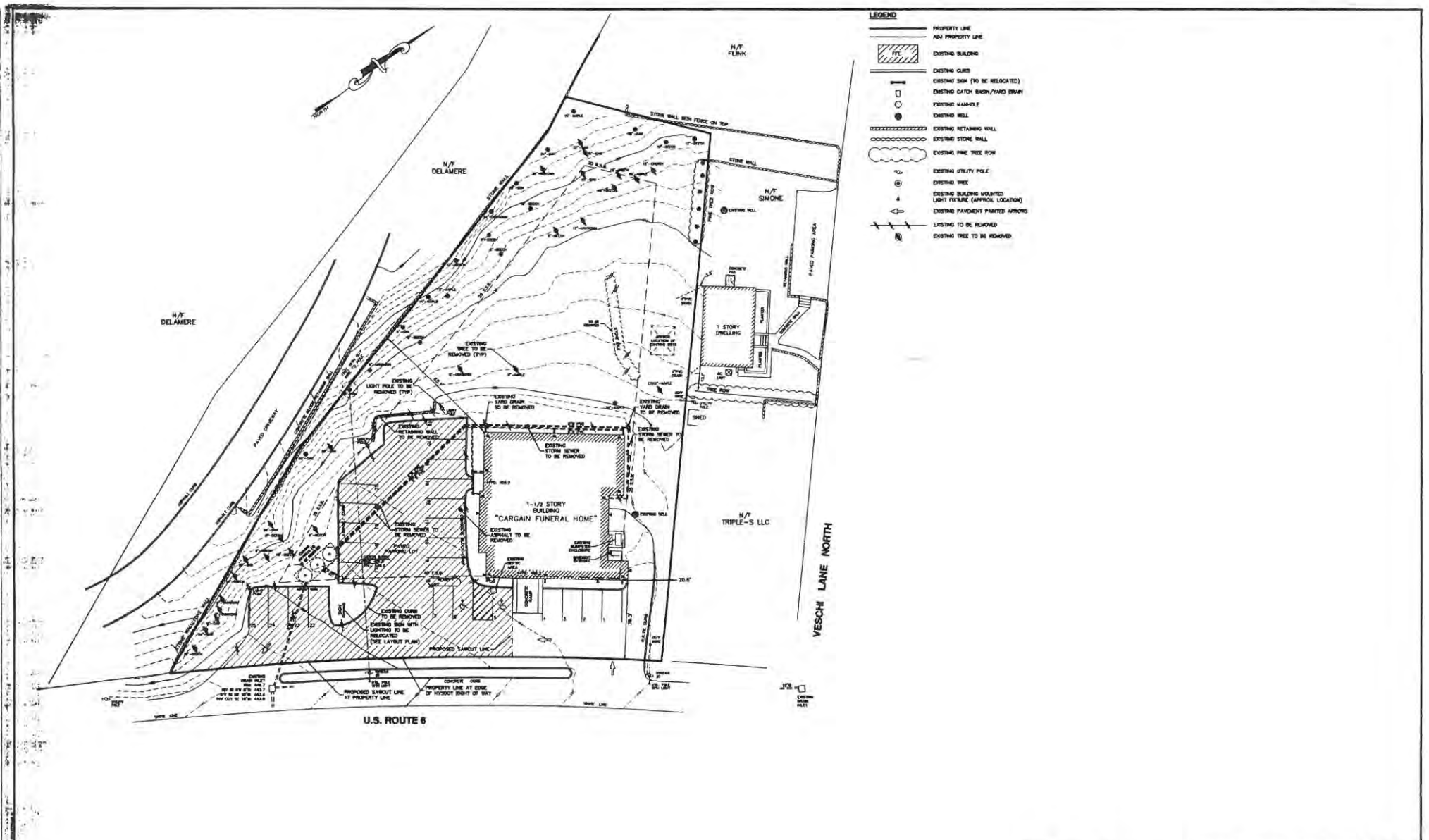
**AMENDED SITE PLAN & LANDSCAPING PLAN**  
FOR  
**CARGAIN FUNERAL HOMES, INC.**  
TOWN OF CARMEL, PUTNAM COUNTY, NEW YORK

SCALE: 1" = 20' APPROVED BY: JE DATE: 05/29/2014 PROJECT NO: 2014-010 DESIGN BY: JZ/ABD

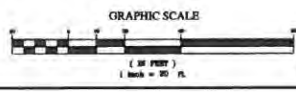
**ZARECKI & ASSOCIATES, L.L.C.**  
Consulting Engineers - Land Surveyors - Architects  
11 West 107th Street, New York, NY 10025  
646-237-7800

2 OF 8





- LEGEND**
- PROPERTY LINE
  - - - ADJ PROPERTY LINE
  - [Hatched Box] EXISTING BUILDING
  - EXISTING CURB
  - EXISTING SIDE (TO BE RELOCATED)
  - EXISTING CATCH BASIN/YARD DRAIN
  - EXISTING MANHOLE
  - EXISTING WELL
  - EXISTING RETAINING WALL
  - EXISTING STONE WALL
  - EXISTING PINE TREE ROW
  - ⊕ EXISTING UTILITY POLE
  - ⊙ EXISTING TREE
  - ⊙ EXISTING BUILDING MOUNTED LIGHT FIXTURE (APPROX. LOCATION)
  - ⊕ EXISTING PAVEMENT PAINTED ARROWS
  - EXISTING TO BE REMOVED
  - ⊙ EXISTING TREE TO BE REMOVED



**EXISTING CONDITIONS, DEMOLITION & TREE PLAN**  
FOR  
**CARGAIN FUNERAL HOMES, INC**  
TOWN OF CARBELL, PUTNAM COUNTY, NEW YORK

SCALE: 1" = 30'  
DATE: 05/26/2014  
PROJECT NO: 2014-DIG

APPROVED BY: JZ  
DRAWN BY: ASB  
DESIGN BY: JZ/ASB

**ZARNECKI & ASSOCIATES, L.L.C.**  
Consulting Engineers - Land Surveyors - Architects  
11 West Park Dr. Putnam, NY 12574  
914.886.2771  
914.886.2724

SHEET NO. **3 OF 9**



N/F DELAMERE

N/F DELAMERE

N/F FLINK

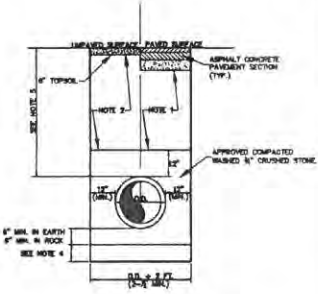
N/F SMOKE

N/F TRIPLE-S LLC

U.S. ROUTE 6

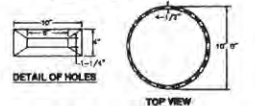
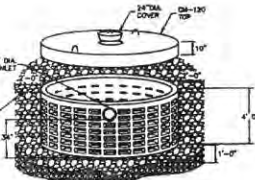
**LEGEND**

- PROPERTY LINE
- ADJ PROPERTY LINE
- - - PROPOSED PROPERTY LINE
- [Hatched Box] EXISTING BUILDING
- EXISTING 3 FT CONTAINS
- EXISTING 10 FT CONTAINS
- EXISTING RETAINING WALL
- EXISTING STONE WALL
- EXISTING UREI ROW
- EXISTING UTILITY POLE
- EXISTING CATCH BASIN/TWED DRAIN
- EXISTING MANHOLE
- EXISTING TEST PIT LOCATION
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED CURB
- PROPOSED RETAINING WALL
- PROPOSED CATCH BASIN
- PROPOSED STORM PIPE
- PROPOSED SPOT ELEVATION



**NOTES:**

1. BACKFILL MATERIAL UNDER PAVED SURFACES SHALL BE SUSTAINABLE 3/4-INCH-MINIMUM MATERIAL TO BE PLACED IN HORIZONTAL LIFTS NOT EXCEEDING 12 INCHES IN THICKNESS PRIOR TO COMPACTION. COMPACTION SHALL BE TO A MINIMUM OF 95% OF STANDARD PROCTOR MAXIMUM DENSITY. NO STONE SHALL BE GREATER THAN 3 INCHES IN SIZE.
2. BACKFILL MATERIAL UNDER IMPAVED SURFACES SHALL BE 3/4-INCH-MINIMUM MATERIAL TO BE PLACED IN HORIZONTAL LIFTS NOT EXCEEDING 12 INCHES IN THICKNESS PRIOR TO COMPACTION. COMPACTION SHALL BE TO A MINIMUM OF 95% OF STANDARD PROCTOR MAXIMUM DENSITY. NO STONE SHALL BE GREATER THAN 3 INCHES IN SIZE.
3. WHEN PLACING FILL OR BACKFILL AROUND CULVERTS AND PIPES, LIFTS SHALL BE PLACED TO PROGRESSIVELY BURY THE PIPE OR CULVERT TO EQUAL DEPTHS ON BOTH SIDES.
4. A MINIMUM OF 12\"/>



**SPECIFICATIONS:**  
 CONCRETE MINIMUM STRENGTH: 4,000 PSI AT 28 DAYS  
 REINFORCEMENT: #4 REBAR AIR ENTRAINMENT: 3% MINIMUM  
 CAPACITY: 1,000 GALLONS TO RAIN; 2,000 GAL. TOTAL  
 SQUARE AREA: 125 SQUARE FEET  
 LOAD RATING: 800 LBS. WEIGHT = 4,000 LBS.  
**PRECAST DRY WELL MODEL DW-4x10**  
 N.T.A.

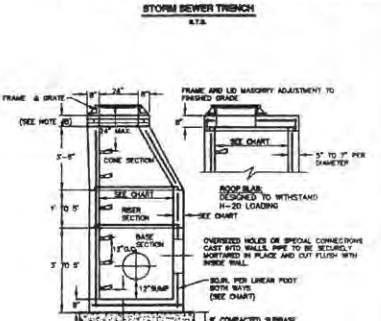
| DRY WELL No.1       |                     | DRY WELL No.4       |                         |
|---------------------|---------------------|---------------------|-------------------------|
| TOP OF WELL: 435.7' | TOP OF WELL: 430.7' | TOP OF WELL: 430.7' | TOP OF WELL: 428.7' (2) |
| INV. NO: 434.4'     | INV. NO: 428.4'     | INV. NO: 428.7' (2) | INV. NO: 427.7'         |
| MIN. DIRT: 434.4'   | MIN. DIRT: 428.4'   | MIN. DIRT: 428.7'   | MIN. DIRT: 427.7'       |

| DRY WELL No.2       |                     | DRY WELL No.5       |                     |
|---------------------|---------------------|---------------------|---------------------|
| TOP OF WELL: 434.7' | TOP OF WELL: 430.7' | TOP OF WELL: 430.7' | TOP OF WELL: 428.7' |
| INV. NO: 433.4' (2) | INV. NO: 428.4'     | INV. NO: 428.7'     | INV. NO: 427.7'     |
| MIN. DIRT: 433.4'   | MIN. DIRT: 428.4'   | MIN. DIRT: 428.7'   | MIN. DIRT: 427.7'   |

| DRY WELL No.3       |                     | DRY WELL No.6       |                     |
|---------------------|---------------------|---------------------|---------------------|
| TOP OF WELL: 434.0' | TOP OF WELL: 428.7' | TOP OF WELL: 428.7' | TOP OF WELL: 427.7' |
| INV. NO: 433.0'     | INV. NO: 427.7'     | INV. NO: 427.7'     | INV. NO: 426.7'     |
| MIN. DIRT: 433.0'   | MIN. DIRT: 427.7'   | MIN. DIRT: 427.7'   | MIN. DIRT: 426.7'   |



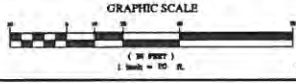
**NOTES:**

1. ALL MATERIALS IN STRICT CONFORMANCE WITH ASTM SPEC. LATEST REVISION, AND HYDROTEST SECTION 709-04.
2. CONCRETE TO TEST AGAINST AT 28 DAYS.
3. 3 LIFTING HOLES OR RINGS IN EACH SECTION.
4. FOR LIFTS OVER 12\"/>

- GRATES & COVER:**
1. TOPPER ROOF SLAB W/ FRAME AND DRIVE CHANNEL, FINISHED ON PATTERNS & SAND.
  2. TOPPER COVER OR SLAB ROOF W/ CHANNEL FRAME & GRATE 12\"/>

| MANHOLE CHART   |                |            |  |
|-----------------|----------------|------------|--|
| INSIDE DIAMETER | WALL THICKNESS | MAX. DEPTH | RECOMMENDATION, FEET TO BE SET PER VERT FOOT |
| 18"             | 8"             | 12'        | 0.12   |
| 24"             | 8"             | 20'        | 0.18   |
| 30"             | 8"             | 25'        | 0.18   |
| 36"             | 8"             | 25'+       | 0.21   |

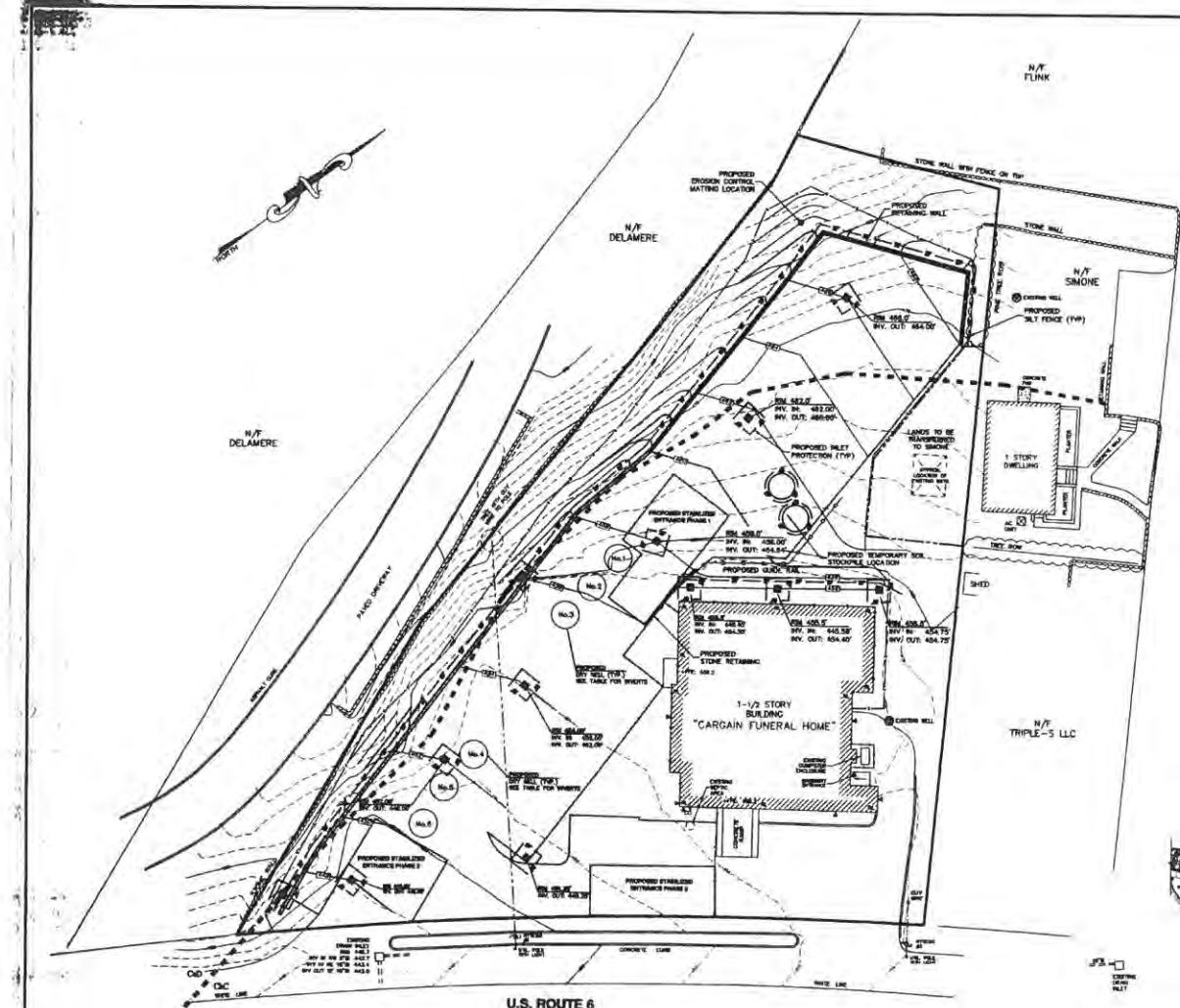
**TYPICAL DRAINAGE MANHOLE**



**GRADING & UTILITY PLAN**  
 FOR  
**CARGAIN FUNERAL HOMES, INC**  
 TOWN OF CARROLL, PUTNAM COUNTY, NEW YORK

SCALE: 1" = 20'  
 DATE: 08/29/2014 APPROVED BY: JZ DRAWN BY: JAD  
 PROJECT NO: 2014.010 DESIGNED BY: JAD/AB

**ZARECKI & ASSOCIATES, L.L.C.**  
 Consulting Engineers - Land Surveyors - Architects  
 11 South 10th Street, Putnam NY 12548  
 518.533.2777  
 4 OF 9



**LEGEND**



| SOILS LEGEND |                       |         |            |
|--------------|-----------------------|---------|------------|
| SYMBOL       | SOIL NAME/DESCRIPTION | SLOPE   | SOIL GROUP |
| CdC          | CHARLETON LOAM        | 8-10 %  | B          |
| CdC          | CHARFIELD-CHARLTON    | 15-20 % | B          |

**SOIL EROSION AND SEDIMENT CONTROL NOTES:**

1. LAND DISTURBANCE SHALL BE KEPT TO A MINIMUM. RE-STABILIZATION SHALL BE INSTALLED AS SOON AS PRACTICABLE.
2. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF ANY EROSION PROMOTING ACTIVITY.
3. SILT FENCES AS SHOWN ON THE PLANS SHALL BE INSTALLED ALONG THE TOE OF CRITICAL CUTS AND SLOPES.
4. ALL SOIL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE MAINTAINED IN ACCORDANCE WITH THE STATE EROSION CONTROL STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, LATEST EDITION.
5. ALL EROSION CONTROL STRUCTURES TO BE MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
6. ADDITIONAL MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PERIOD IF NECESSARY OR REQUIRED BY THE ENGINEER.
7. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN SEVEN (7) DAYS AND ARE NOT SUBJECT TO CONSTRUCTION TRAFFIC, SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PERMITS THE ESTABLISHMENT OF A TEMPORARY COVER, THE EXPOSED AREAS SHALL BE MULCHED WITH STRAW OR EQUIVALENT MATERIAL.
8. THE SEEDING SHALL BE DONE IN ACCORDANCE WITH THE BELOW CHECKLISTS, AS FOLLOWS:
  - a) SITE PREPARATION: INITIAL EROSION CONTROL MEASURES SCARIFY COMPACTED SOIL AREAS.
  - b) SEEDING: PREPARE SEED BED BY RAKING TO REMOVE STONES, TWIGS, LOGS AND OTHER FOREIGN MATERIAL. APPLY SOIL AMENDMENTS AND INTEGRATE INTO SOIL. APPLY SEED UNIFORMLY BY CYCLONE SEEDER, CULTIVATOR OR HYDRO-SEEDER AT RATES INDICATED. INCREASE SEEDING RATE BY 10 % WHEN HYDRO-SEEDING. INCREASE TO FULLY SATURATE SOIL LAVER, BUT NOT TO DISRUPT PLANTING SOIL.
  - c) SLOPES STEEPER THAN ONE ON THREE SHALL BE STABILIZED IMMEDIATELY AFTER DRAINAGE.
  - d) STOCKPILES SHALL NOT BE LOCATED WITHIN FIFTY (50) FEET OF CATCH BASINS AND AT LEAST 200' FROM ANY BODY OF WATER. THE BASE OF ALL STOCKPILES SHALL BE PROTECTED BY MAT BALE BARRIERS OR SILT FENCE.
  - e) SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED BY THE CONTRACTOR ON A DAILY BASIS TO ASSURE THAT TEMPORARY AND PERMANENT DITCHES, PILES AND STRUCTURES ARE CLEAR OF DEBRIS, THAT INSURMENTS AND BARRIERS ARE NOT RELAXED, AND THAT ALL BARRIERS ARE INTACT.
  - f) SILT FENCE SHALL REMAIN IN PLACE UNTIL PERMANENT VEGETATION IS ESTABLISHED.
  - g) THE CONTRACTOR SHALL MAINTAIN ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES UNTIL FINAL ACCEPTANCE OF THE WORK BY THE AGENCY. UPON ACCEPTANCE OF FINAL ACCEPTANCE, THE AGENCY WILL ASSUME RESPONSIBILITY FOR THE CONTINUED MAINTENANCE OF PERMANENT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.
  - h) THE CONTRACTOR SHALL INSTALL AND MAINTAIN THE STABILIZED CONSTRUCTION ENTRANCE DURING CONSTRUCTION.

**PERMANENT VEGETATIVE COVER NOTES:**

1. SITE PREPARATION
  - a) INITIAL EROSION CONTROL MEASURES.
  - b) SCARIFY COMPACTED SOIL AREAS.
  - c) LIMB AS REQUIRED TO PH 8.5.
  - d) FERTILIZE WITH 10-0-0 @ 50 LBS./ACRE.
  - e) HYDROSEED AND ANCHORS WITH SILT WITHIN ONE HOUR.
2. SEED MIXTURES FOR USE ON GRADES & CUT/FILL AREAS:
 

| MIXTURE  | LBS./ACRE               |
|----------|-------------------------|
| N.T.A. A | CRUICKING RED FESCUE 20 |
|          | RYE GRASS 20            |
| N.T.A. B | CRUICKING RED FESCUE 20 |
|          | RYE GRASS 20            |
|          | SMOOTH BROMGRASS 20     |
3. SEEDING
  - a) PREPARE SEED BED BY RAKING TO REMOVE STONES, TWIGS, LOGS AND OTHER FOREIGN MATERIAL.
  - b) APPLY SOIL AMENDMENTS AND INTEGRATE INTO SOIL.
  - c) APPLY SEED UNIFORMLY BY CYCLONE SEEDER.
  - d) SEED ON HYDRO-SEEDING AT RATE INDICATED.
  - e) STABILIZE SEEDING AREAS BY DRAGGING MATS.
  - f) DISCLOSE PLANTING SOIL IN SOIL LAYER, BUT NOT TO BE SEED BENEATH MATS. DO NOT USE MATS UNTIL SEPTEMBER 1ST TO NOVEMBER 30TH. SEEDING MAY OCCUR MAY 1ST AND ADOPT 1ST IF ADEQUATE PROTECTION IS PROVIDED.

**TEMPORARY VEGETATIVE COVER NOTES:**

1. SITE PREPARATION
  - a) INITIAL EROSION CONTROL MEASURES.
  - b) SCARIFY AREAS OF COMPACTED SOIL.
  - c) FERTILIZE WITH 10-0-0 @ 50 LBS./ACRE.
  - d) LIMB AS REQUIRED TO PH 8.5.
2. SEED MIXTURE
 

| MIXTURE | LBS./ACRE                               |
|---------|---|
| N.T.A.  | RAPIDLY GERMINATING ANNUAL HYDRANGEA 20 |
|         | PERENNIAL HYDRANGEA 20                  |
|         | ORANGE BLOSSOM 20                       |
3. SEEDING
  - a) MAKE AS PERMANENT VEGETATIVE COVER.

**TOPSOIL NOTES:**

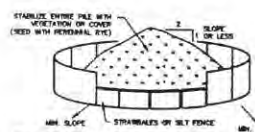
- EXISTING TOPSOIL WILL BE REMOVED AND STORED IN PILES. MATERIALS REMOVED FROM OTHER EXCAVATION TO AVOID MIXING. STOCKPILES SHALL BE SUPERSEDED BY EROSION CONTROL AS OUTLINE ON THESE PLANS.
- THE FURNISHING OF NEW TOPSOIL SHALL BE OF A MIXTURE OF EQUAL QUALITY OF THE EXISTING REMOVED TOPSOIL. IT SHALL BE STORED AS FOLLOWS:
1. THE PH OF THE MATERIAL SHALL BE 5.5 TO 7.0.
  2. THE ORGANIC CONTENT SHALL NOT BE LESS THAN 2% OR MORE THAN 7%.
  3. GRANULATION:
 

| SIZE        | WEIGHT BY WT. |
|-------------|---------------|
| 2" SIEVE    | 85 TO 100     |
| 1/2" SIEVE  | 85 TO 100     |
| NO. 20 MESH | 20 TO 80      |

**MULCHING NOTES:**

1. SITE PREPARATION
  - a) PRIOR TO MULCHING, INITIAL NECESSARY TEMPORARY OR PERMANENT EROSION CONTROL (STRUCTURAL) PRACTICES WITHIN OR ADJACENT TO AREA TO BE MULCHED.
  - b) SLOPE, GRADE AND SMOOTH THE SITE IF CONSTRUCTION EQUIPMENT IS TO BE USED IN APPLYING AND ANCHORING THE MULCH.
  - c) REMOVE ALL UNDESIRABLE STONES AND OTHER DEBRIS DISPENSING ON UNPROTECTED LAVER AND BEING COMPACTED TO UNIFORM SOIL SURFACE. SURFACE SHOULD BE LEVELLED BY AT LEAST TWO INCHES BY DRIVING OR OTHER SUITABLE METHODS.
2. MULCHING MATERIALS
 

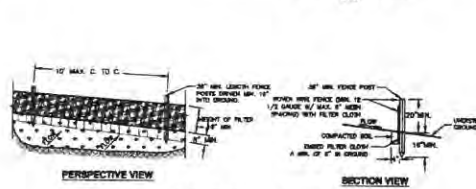
THE BEST COMBINATION FOR GRADE/ADJACENT ESTABLISHMENT IS STRAW (SMALL GRAIN) MULCH APPLIED AT 3 TON/ACRE (60 LBS./100 SQ. FT.) AND ANCHORED WITH WOOD FIBER MULCH (HYDROMULCH) AT 200-700 LBS./ACRE (11-17 LBS./100 SQ. FT.). THE WOOD FIBER MULCH MUST BE APPLIED THROUGH A FORTIFIED MANGLET AFTER MULCHING.



**INSTALLATION NOTES:**

1. AREA CHOSEN FOR STOCKPILE OPERATIONS SHALL BE DRY AND STABLE.
2. MINIMUM SLOPE OF STOCKPILE SHALL BE 1:5.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAWBALES THEN STABILIZED WITH VEGETATION OR COVERING.
4. SEE DETAIL SPECIFICATIONS FOR INSTALLATION OF SILT FENCE.
5. PREPARE ENTRANCE SHALL UP STRAIGHT LOCATION.

**SOIL STOCKPILE DETAIL**

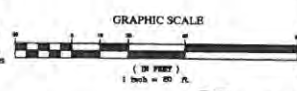


**CONSTRUCTION SPECIFICATIONS:**

1. WOOD FENCE SHALL BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR CHAINS.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOOD FENCE WITH WIRE SPACED EVERY 3" AT TOP AND BOTTOM. FENCE SHALL BE KEPT WITH 1 1/2" GAPS. 2" MAX. WHEN OPENING.
3. WHEN THE SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED SIX INCHES AND FASTENED. FILTER CLOTH SHALL BE OTHER FILTER & OVERLAP SHALL BE AT LEAST 6" LONG.
4. PREINSTALLED UNITS SHALL BE DESP. ENVELOPING, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED IMMEDIATELY.

**SILT FENCE DETAIL**

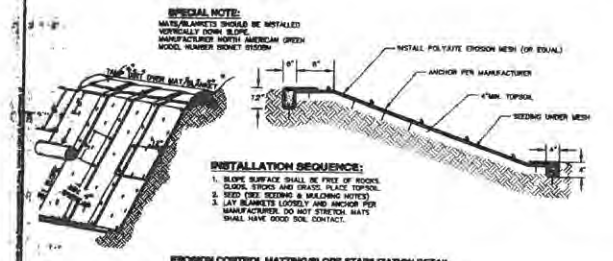
N.T.A.



**SEDIMENT & EROSION CONTROL PLAN**  
**CARGAIN FUNERAL HOMES, INC**  
 TOWN OF DANIEL, FURMAN COUNTY, NEW JERSEY

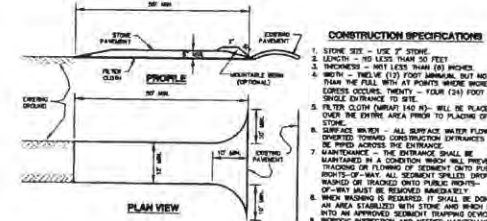
SCALE: 1" = 30'  
 DATE: 09/26/2014 PROJECT NO.: 2014.010 DRAWN BY: JZ  
 DESIGNED BY: JZ  
 ZARECKI & ASSOCIATES, L.L.C.  
 Consulting Engineers - Land Surveyors - Architects  
 111 Main Street, 3rd Floor, Danbury, CT 06801  
 203.748.7777 FAX: 203.748.7778

SHEET NO. 5 OF 9



**EROSION CONTROL MATTING/SLOPE STABILIZATION DETAIL**

N.T.A.



**STABILIZED CONSTRUCTION ENTRANCE DETAIL**

N.T.A.

**CONSTRUCTION SPECIFICATIONS**

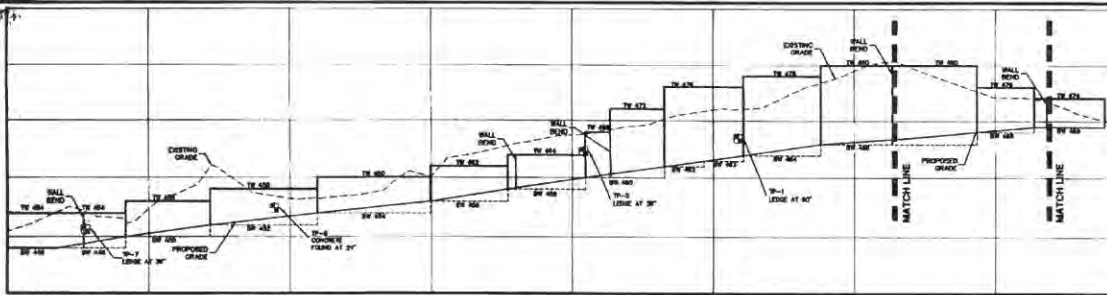
1. STONE SIZE - USE # 3/8" SIZES.
2. LENGTH - NO LESS THAN 30 FEET.
3. THICKNESS - NOT LESS THAN 6" INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE BARRIERS OR GATES OCCUR. TWENTY - FOUR (24) FOOT # 4 GROUND RODS (MIN. 140 LB) - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
5. SURFACE WATER - ALL SURFACE WATER FLOWING OR DRIPPED THROUGH CONSTRUCTION ENTRANCES SHALL BE FILTERED THROUGH CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT INTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, RANDED OR TRACKED ONTO RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
6. WOOD BARRIERS OR GATES IF THEY ARE TO BE USED ON AN AREA STABILIZED WITH STONE AND BRUSH DRAMS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
7. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

**SPECIAL NOTE:**

MAT BARRIERS SHOULD BE INSTALLED VERTICALLY DOWN SLOPE. MANUFACTURED NORTH AMERICAN GREEN MODEL NUMBER SIKENET 255000.

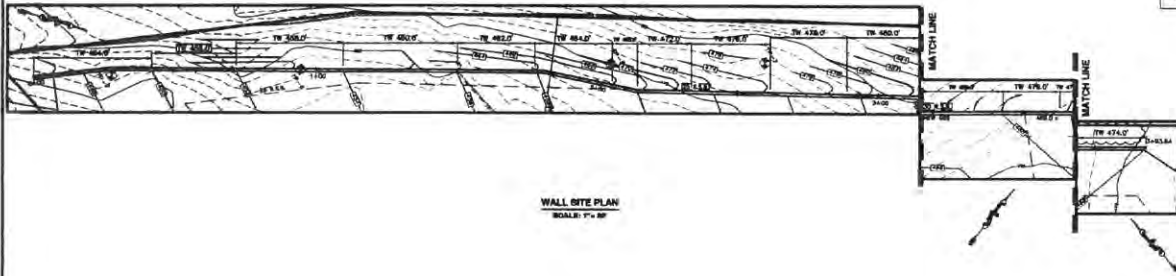
**INSTALLATION SEQUENCE:**

1. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLUMPS, STUMPS AND GRASS. PLACE TOPSOIL.
2. SEED (SEE SEEDING & MULCHING NOTES).
3. LAY BARRIERS LOOSELY AND ANCHOR PER MANUFACTURER. DO NOT STRETCH. MATS SHALL HAVE GOOD SOIL CONTACT.



CROSS SECTION CL WALL

SCALE:  
HORIZONTAL: 1" = 8'  
VERTICAL: 1" = 4'



WALL SITE PLAN

SCALE: 1" = 8'

**COLD WEATHER CONCRETE NOTES:**

PROVISIONS FOR CURING STRUCTURAL CONCRETE IN COLD WEATHER SHALL BE IMPLEMENTED IF THE AMBIENT AIR TEMPERATURE FALLS OR IS EXPECTED TO FALL BELOW 32°F (CONTACT ENGINEER FOR SPECIFICATIONS IF COLD WEATHER IS ANTICIPATED DURING PLACEMENT).  
ALL STRUCTURAL CONCRETE SHALL BE CURED FOR A MINIMUM OF SEVEN CURING DAYS. A CURING DAY IS DEFINED AS ANY DAY DURING WHICH THE AMBIENT AIR TEMPERATURE AT THE CONCRETE SURFACE IS 45° OR HIGHER FOR THE ENTIRE DAY.

| COLD WEATHER CURING REQUIREMENTS:  |  |
|--|--|
| AMBIENT TEMPERATURE (T) AT THE CURING SURFACE AND AN ANTICIPATED CURING DURATION | CURING REQUIREMENTS  |
| 32°F < T < 45°F  | CONTRACTOR PROPOSED ENGINEER APPROVED METHOD FOR MAINTAINING TEMPERATURES USED |
| 32°F < T < 45°F  | HEATING ENCLOSURE REQUIRED   |
| FOR MORE THAN 24 CONSECUTIVE HOURS   | AT < 32°F  |
|  | HEATING ENCLOSURE REQUIRED   |

**NOTES:**

IF THE CURING TEMPERATURE FALLS BELOW 32°F AT ANY TIME DURING THE CURING PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REWORKING AND RECURING ANY PORT OF THE REJECTED CONCRETE AND THE PLACEMENT OF NEW CONCRETE. IF THE EXISTING METHOD EMPLOYED BY THE CONTRACTOR TO MAINTAIN THE CURING TEMPERATURE FALLS, THE CONTRACTOR SHALL MODIFY THE EXISTING METHOD IMMEDIATELY TO REESTABLISH AN ACCEPTABLE CURING TEMPERATURE. THE LENGTH OF CURING DAYS WILL BE EXTENDED UNTIL THE REQUIRED NUMBER OF CURING DAYS ARE ACCUMULATED.  
IF THE CONTRACTOR ELECTS TO MAINTAIN CURING TEMPERATURES BY OPTIMAL HEAT, THE CONTRACTOR SHALL SUBMIT SUPPORTING CALCULUS AND TRANSMISSION ON DAILY TOP OF HOUSES, TO INCLUDE, TO PROTECT THE STRUCTURE IN SUCH A WAY THAT THE AIR SURROUNDING THE FRESH CONCRETE ON ALL SIDES BE KEPT AT A TEMPERATURE BETWEEN 45°F AND 65°F FOR THE SPECIFIED CURING PERIOD.

**MINIMUM TIME FOR FORM REMOVAL/FORMING/LOADING LIMITATIONS**

| STRUCTURAL MEMBER | FORMING   | FORMING NEXT PLACEMENT | LOADING                      |
|-------------------|---|------------------------|------------------------------|
| ALL FOOTINGS      | 2 DAYS  | 2 DAYS                 | 4 DAYS BEFORE NEXT PLACEMENT |
| RETAINING WALLS   | 2 DAYS IF LESS THAN 10 FEET, AND 5 DAYS FOR EACH ADDITIONAL 5 FEET TO 10 FEET MAXIMUM | N/A                    | 14 DAYS BEFORE BACKFILLING   |



CROSS SECTION CL WALL @ DRIVEWAY

SCALE:  
HORIZONTAL: 1" = 8'  
VERTICAL: 1" = 4'

**NOTE:**

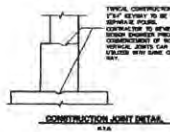
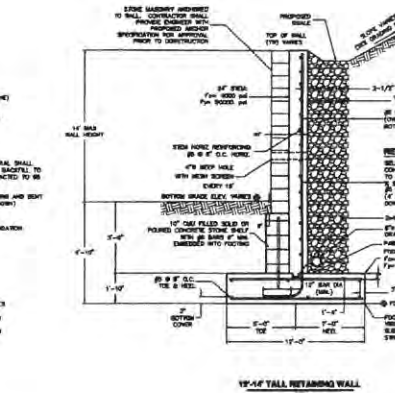
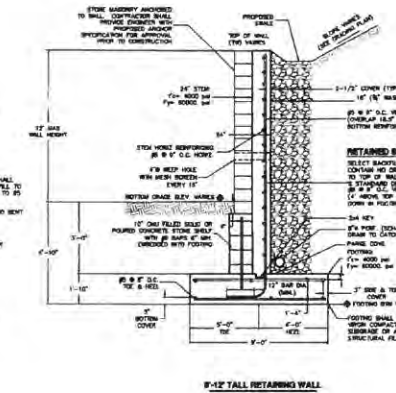
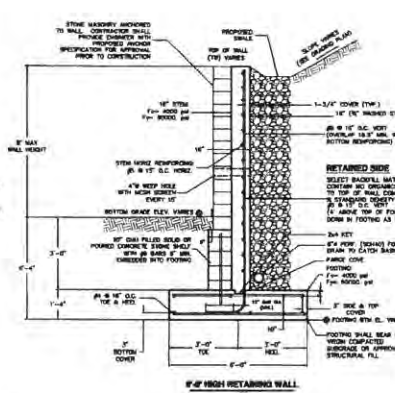
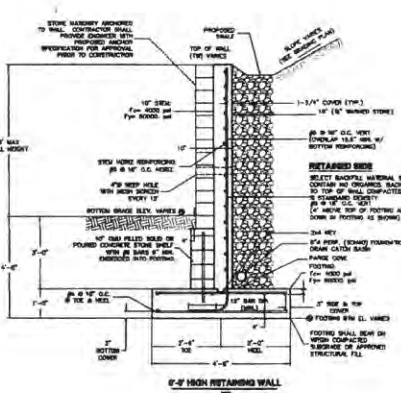
FORMS MAY BE REMOVED WITHOUT RESTRICTION, PROVIDED THE TEMPERATURE DIFFERENCE BETWEEN THE AIR AND THE SURFACE OF THE CONCRETE IS NOT MORE THAN 27°F.

**GENERAL FOUNDATION NOTES:**

- WHEN LEGS ARE ENCOUNTERED IT SHALL BE CUT, LEVEL & STREPPED AS NEEDED.
- ALL LEVELS/ROCKS SHOWN IN AND AROUND WALLS SHALL BE HELD HIGHER WITHOUT APPROVAL FROM DESIGN ENGINEER IS FORWARDED. NOTIFY ANY AND ALL DISCREPANCIES TO THE ENGINEER FOR CLARIFICATIONS PRIOR TO COMMENCEMENT OF WORK.
- ALL PROPOSED GRADE ELEVATIONS SHOWN ON THE SITE PLAN SHALL BE MEASURED IN THE FIELD.
- CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND PLANS.
- CONTRACTOR SHALL USE DIMENSIONS SHOWN ON THE PLAN. CONTRACTOR SHALL NOT USE SCALED DIMENSIONS.
- CONTRACTOR IS RESPONSIBLE FOR LOCATING AND RELOCATING ALL UTILITIES WITHIN THE LIMITS OF THE PROPOSED WORK, AS NEEDED.
- CONTRACTOR TO COORDINATE OTHER TRADES AS NEEDED TO COMPLETE SCOPE OF WORK.
- ANY AND ALL EXCAVATION/DEMOLITION MATERIAL NOT CLASSIFIED AS SUITABLE FILL WITH NO PARTICLES LESS THAN 6" IN DIAMETER SHALL BE DEPOSITED OFF SITE.
- ANY FIELD CHANGES OR VARIATION IN THE CONSTRUCTION PLANS MUST BE APPROVED BY THE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL CONSTRUCT FOUNDATION AS RETURNED WITH A MINIMUM OF TWO (2) FEET FOOTING & WALLS.
- CONTRACTOR SHALL PROVIDE ALL SLEEVES THROUGH WALL FOR UTILITIES AS DETAIL(S) WARRANTED.
- ALL CURVED MATERIAL SHALL BE RADIUS PER FEET OF FORM WARDEN AND SET. ALL FORM TIES SHALL BE REMOVED AND FILLED AND BE CONSISTENT WITH PROPOSED FINISHES.
- ALL BACKFILL MATERIAL SHALL BE SUITABLE FILL APPROVED BY ENGINEER PRIOR TO USE AND COMPACTED IN 6" LIFTS. MATERIAL SHALL BE COMPACTED TO USE STAMPAED DENSITY.

**GENERAL STRUCTURAL FOUNDATION NOTES:**

- ALL REINFORCED CONCRETE SHALL BE CURED FOR A MINIMUM OF SEVEN (7) DAYS. MAXIMUM SIZE AGGREGATE SHALL BE 3/4" FOR WALLS < 4,000 SQ FT AT 28 DAYS. MAXIMUM SIZE AGGREGATE SHALL BE 1 1/2" FOR WALLS > 4,000 SQ FT AT 28 DAYS. MAXIMUM SIZE AGGREGATE SHALL BE 2" FOR FOOTINGS > 4,000 SQ FT AT 28 DAYS. MAXIMUM SIZE AGGREGATE SHALL BE 3" FOR FOOTINGS > 4,000 SQ FT AT 28 DAYS.
- REINFORCING STEEL SHALL HAVE A MINIMUM YIELD STRENGTH OF 60,000 PSI.
- CONCRETE CAST AGAINST EARTH SHALL HAVE 2" MINIMUM COVER. ALL OTHER CONCRETE SHALL HAVE 3" MINIMUM COVER OVER REINFORCEMENT (UNLESS NOTED OTHERWISE IN DETAILS).
- ALL STEEL BAR REINFORCEMENT SHALL HAVE A MINIMUM LAP LENGTH OF 47 BAR DIAMETERS.
- ALL FOOTINGS AND WALL CORNERS SHALL HAVE CONTINUOUS REINFORCING.

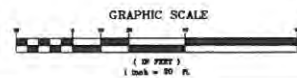


CONSTRUCTION JOINT DETAIL



CONTROL JOINT DETAIL

- NOTES:**
- TO BE SAVED FROM PAVING WALLS FROM TOP OF FIN TO TOP OF CONC. TOP.
  - FORMS SHALL BE REMOVED WITH CARE TO PREVENT DAMAGE TO UNDERWORKS. TO BE BROUGHT TO THE CONTRACTOR'S ATTENTION FOR ELIMINATION.
  - ALL WALLS TO BE APPROVED BEFORE START.
  - CONCRETE JOINTS SHALL BE PROVIDED AS SECTIONS AND NO CLOSURE JOINTS TO BE USED OTHER THAN APPROVED DETAILS.



GRAPHIC SCALE

( IN FEET )  
1 inch = 20 ft



JOSEPH ZARECKI, P.E.  
N.Y. LIC. NO. 01488



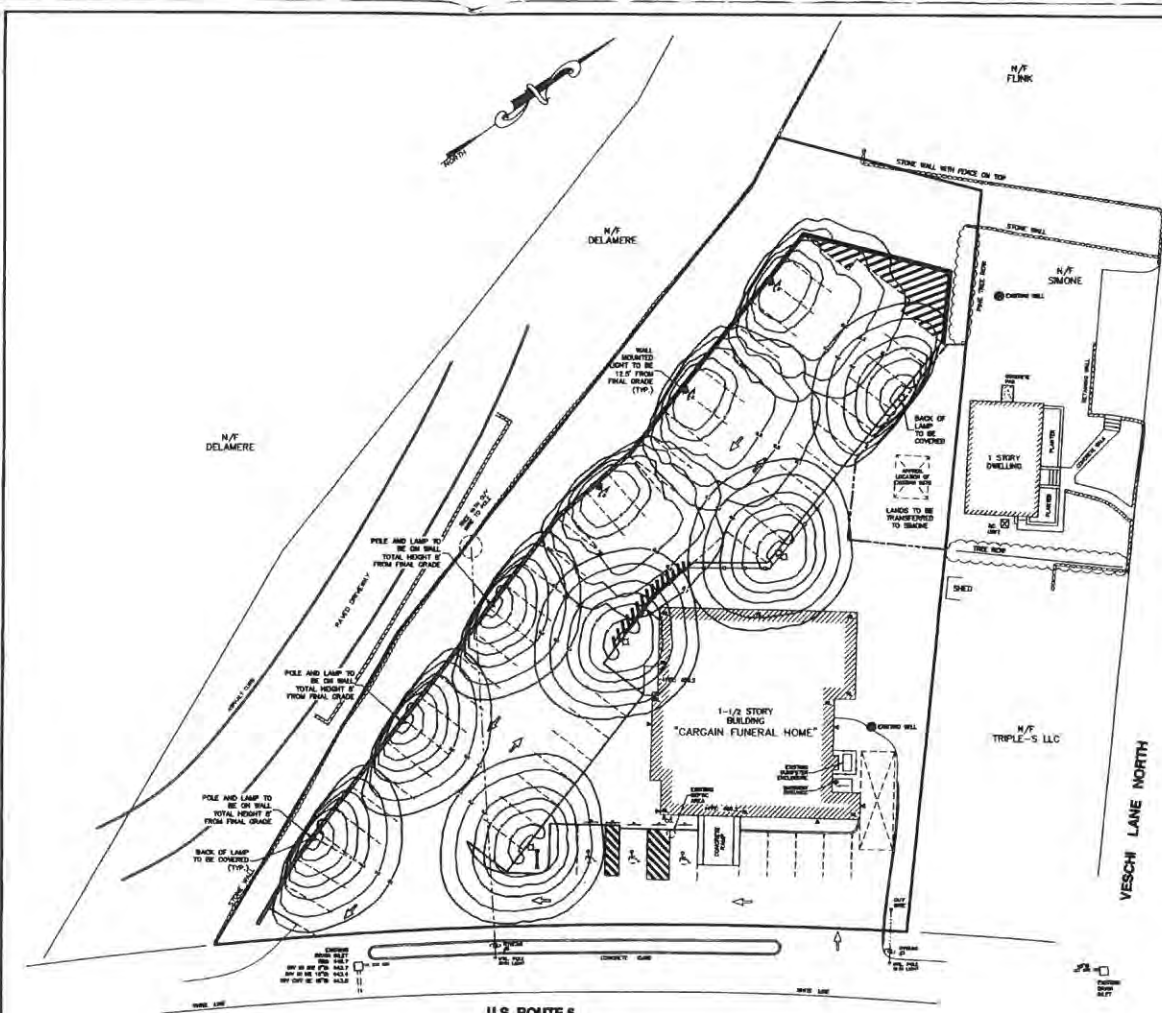
**RETAINING WALL PLAN**

**CARGAIN FUNERAL HOMES, INC**  
TOWN OF CARMEL, PUTNAM COUNTY, NEW YORK

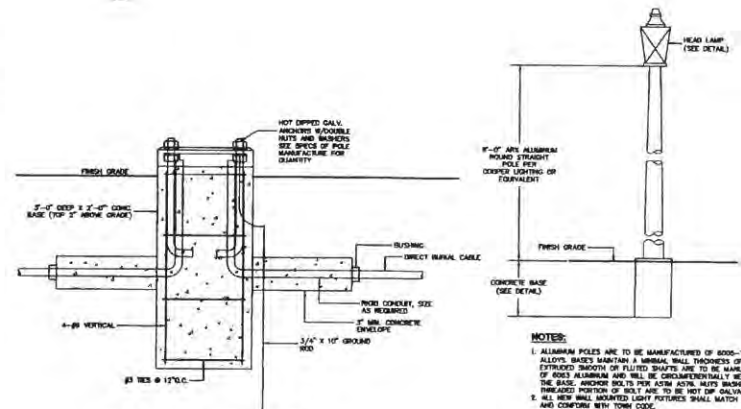
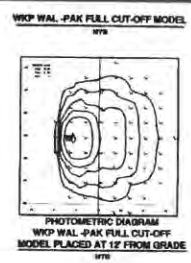
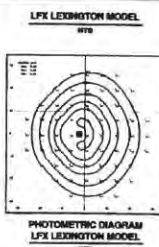
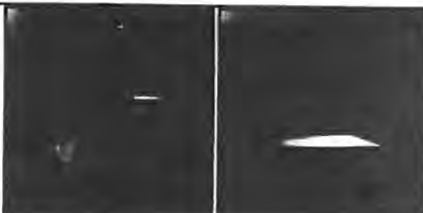
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DATE: 06/26/2014 PROJECT NO.: 2014-010 DESIGN BY: CSZ

**ZARECKI & ASSOCIATES, L.L.C.**  
Consulting Engineers - Land Surveyors - Architects  
11 West Main St., Putnam Co., NY 12572  
(845) 331-7171  
REG. NO. 01488

SHEET NO. **6 OF 8**



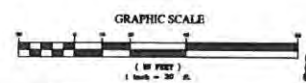
- LEGEND**
- PROPERTY LINE
  - - - - - ADJ PROPERTY LINE
  - PROPOSED PROPERTY LINE
  - ▨ EXISTING BUILDING
  - EXISTING WELL
  - ▤ EXISTING RETAINING WALL
  - ▧ EXISTING STONE WALL
  - ⋯ EXISTING PAVE WALK ROW
  - ⊕ EXISTING UTILITY POLE
  - ⊙ EXISTING TREE
  - △ EXISTING BUILDING MOUNTED LIGHT FIXTURE (APPROX. LOCATION)
  - ◇ EXISTING PAVEMENT PARKED AREAS
  - ▭ PROPOSED BITUMINOUS WALL
  - ▭ PROPOSED CURB
  - ▭ PROPOSED PARKING STRIPE
  - ▭ PROPOSED PAVEMENT PARKED AREAS
  - ▭ PROPOSED CURB RAIL
  - ▭ PROPOSED LATTICE FENCE
  - ⊕ PROPOSED WALL MOUNTED HILL LIGHT
  - ◇ PROPOSED NEW LIGHT POLE OR EXISTING RELOCATED



**LIGHT POLE CONCRETE BASE DETAIL**  
WTA

**PICTURE POLE DETAIL**  
WTA

- NOTES:**
1. ALUMINUM POLES ARE TO BE MANUFACTURED BY 6061-T6 ALUMINUM ALLOYS. BASES MAINTAIN A MINIMAL WALL THICKNESS OF .125\"/>

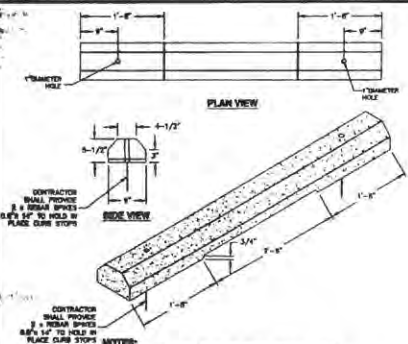


**LIGHTING PLAN AND DETAILS**  
**CARGAIN FUNERAL HOMES, INC**  
TOWN OF CARLED, PUTNAM COUNTY, NEW YORK

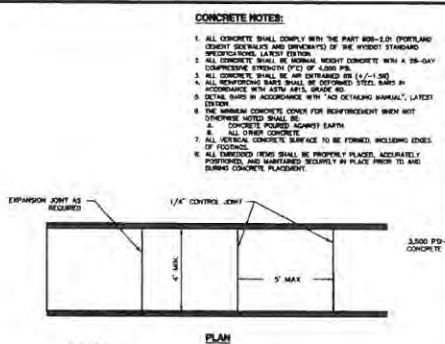
|                  |                      |               |
|------------------|----------------------|---------------|
| SCALE: 1" = 20'  | APPROVED BY: JZ      | DRAWN BY: AB  |
| DATE: 05/29/2014 | PROJECT NO.: 2014010 | DESIGN BY: AB |

**ZARECKI & ASSOCIATES, L.L.C.**  
Consulting Engineers - Land Surveyors - Architects  
11 Park Hill in Putnam, NY 12574  
914.853.5771  
914.853.5782

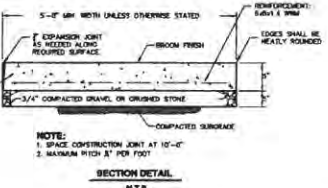
SHEET No. **7 OF 9**



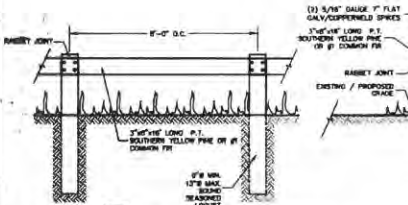
**CONCRETE BUMPER BLOCK**  
 NOTES:  
 1. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH A 28-DAY COMPRESSIVE STRENGTH (7'D) OF 4,000 PSI.  
 2. REINFORCEMENT SHALL BE AS NOTED (SH-1).



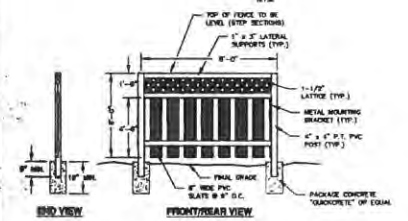
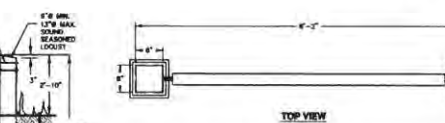
**CONCRETE NOTES:**  
 1. ALL CONCRETE SHALL COMPLY WITH THE PART 808-1.01 (PORTLAND CEMENT SIDEWALKS AND DRIVEWAYS) OF THE HIGHEST STANDARD SPECIFICATIONS LATEST EDITION.  
 2. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH A 28-DAY COMPRESSIVE STRENGTH (7'D) OF 4,000 PSI.  
 3. ALL CONCRETE SHALL BE AIR ENTRAINED (SH-1) (SH-2).  
 4. ALL REINFORCING BARS SHALL BE COATED STEEL BARS AS ACCORDANCE WITH ASTM A618, GRADE 60.  
 5. DETAIL BARS IN ACCORDANCE WITH "NO DETAILING MANUAL, LATEST EDITION".  
 6. THE MINIMUM CONCRETE COVER FOR REINFORCEMENT WHEN NOT OTHERWISE NOTED SHALL BE:  
 a. CONCRETE POURED AGAINST EARTH  
 b. ALL OTHER CONCRETE  
 7. ALL VERTICAL CONCRETE SURFACES TO BE FORMED INCLUDING EDGES OF FOOTINGS.  
 8. ALL REINFORCING BARS SHALL BE PROPERLY PLACED, ACCURATELY POSITIONED AND MAINTAINED SECURELY IN PLACE PRIOR TO AND DURING CONCRETE PLACEMENT.



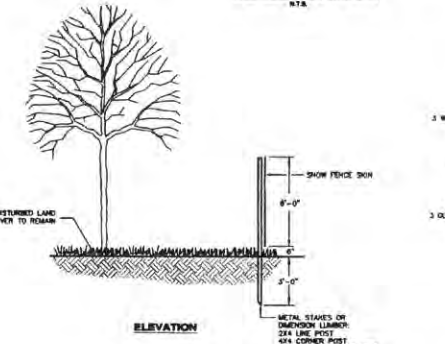
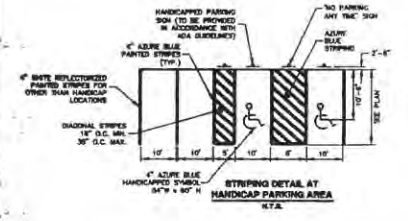
**CONCRETE CURB**  
 NOTES:  
 1. CONCRETE COMPRESSIVE STRENGTH SHALL BE 4,000 PSI AT 28 DAYS.



**WOOD GUIDE RAIL DETAIL**  
 NOTES:  
 AFTER INSTALLATION ALL POSTS AND GUIDE RAILS SHALL BE GIVEN TWO COATS OF EXTERIOR WHITE PAINT APPROVED BY THE CORNER LINE OF THIS DRAWING.



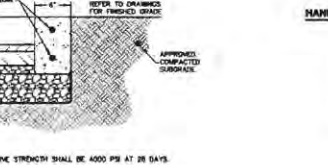
**DOUBLE-SIDED LATTICE-TOP PVC PRIVACY FENCE DETAIL**  
 NOTES:  
 1. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH A 28-DAY COMPRESSIVE STRENGTH (7'D) OF 4,000 PSI.  
 2. REINFORCEMENT SHALL BE AS NOTED (SH-1).



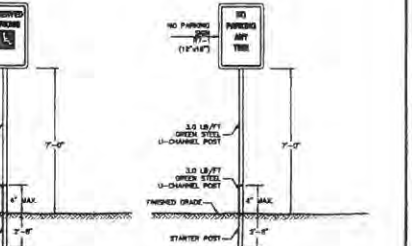
**TREE PROTECTION DETAIL**  
 NOTES:  
 1. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH A 28-DAY COMPRESSIVE STRENGTH (7'D) OF 4,000 PSI.  
 2. REINFORCEMENT SHALL BE AS NOTED (SH-1).



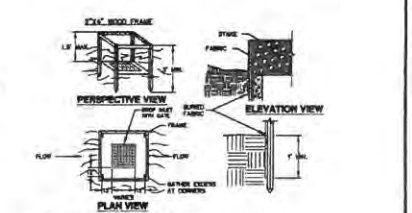
**PAVEMENT DETAIL WITH MATCH-OVERLAP TREATMENT**  
 NOTES:  
 1. OVERLAP WITH PROPOSED COURSE OVER EXISTING SUBGRADE.  
 2. UNMATCHED PAVEMENT SHOULD BE AS SAME AS PROPOSED MATCHING IN MATCH INDICATION OF EXISTING PAVEMENT, SHOW 1/2\"



**SHRUB (TYPICAL)**  
 NOTES:  
 1. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH A 28-DAY COMPRESSIVE STRENGTH (7'D) OF 4,000 PSI.  
 2. REINFORCEMENT SHALL BE AS NOTED (SH-1).



**HANDICAP PARKING SIGN**  
 NOTES:  
 1. ALL ASSEMBLY HARDWARE TO BE CAST ALUMINUM WITH BOLTS.  
 2. ALL TRAFFIC SIGNS MUST CONFORM WITH THE FEDERAL MUTCD AND ITS SUPPLEMENTS.  
 3. ALL SIGNS TO BE VULCANIZED.  
 4. THE SECTION U-SHOWN IN THE DRAWING SHOULD PROVIDE NO MORE THAN 18\"

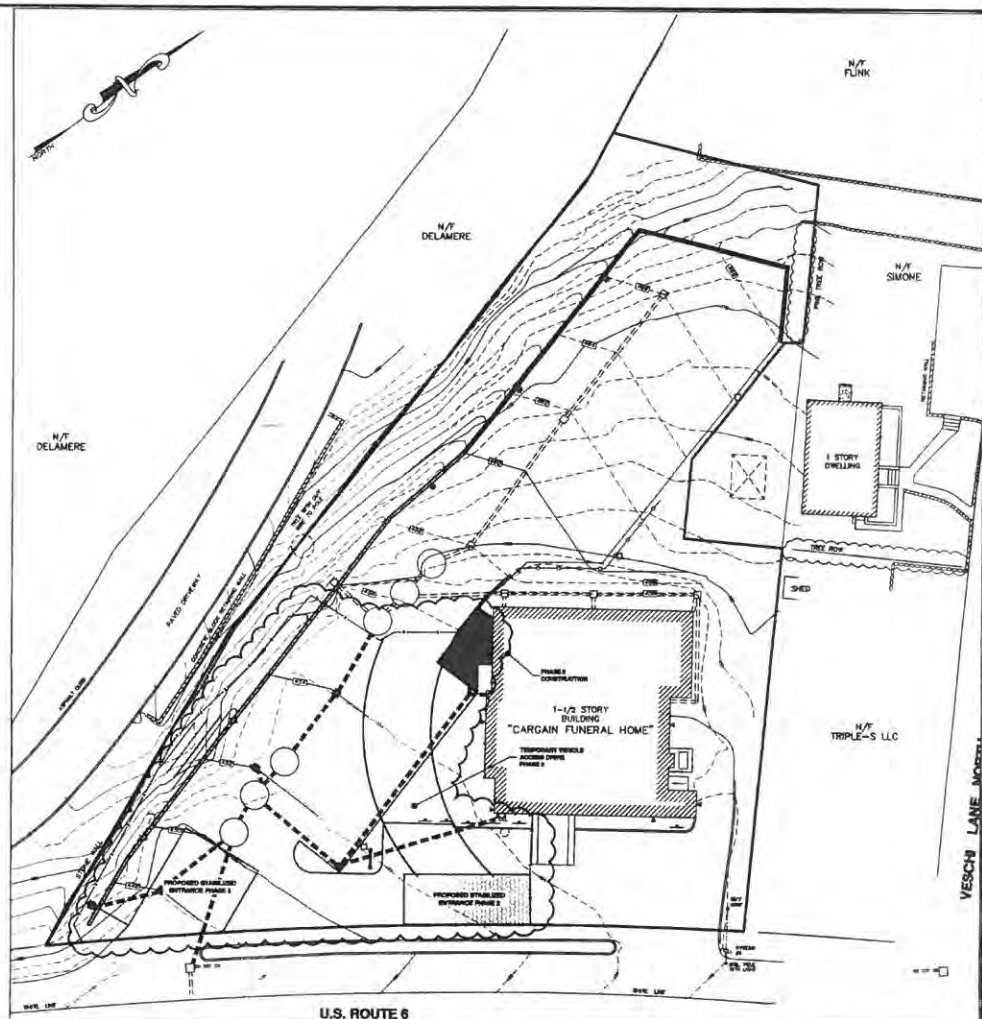
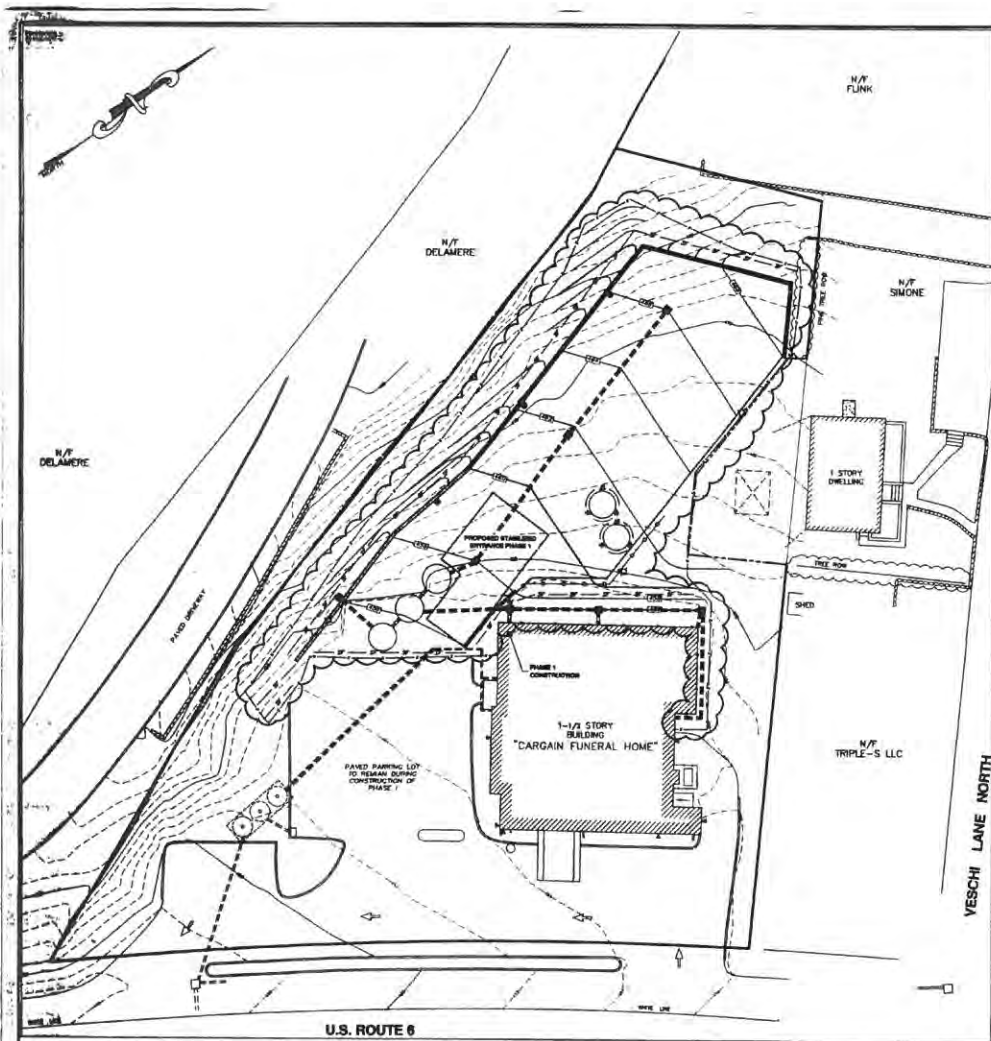


**2x4 WOOD FRAME**  
 NOTES:  
 1. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH A 28-DAY COMPRESSIVE STRENGTH (7'D) OF 4,000 PSI.  
 2. REINFORCEMENT SHALL BE AS NOTED (SH-1).



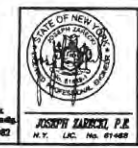
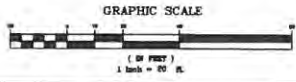
**CONSTRUCTION SPECIFICATIONS:**  
 1. FILTER FABRIC SHALL HAVE AN LOG OF 40-60. BURLAP MAY BE USED FOR SHORT TIME APPLICATIONS.  
 2. CUT FABRIC FROM A CONTIGUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.  
 3. STAKE MATERIALS WILL BE STANDARD 2\"

**SITE DETAILS**  
 FOR  
**CARGAIN FUNERAL HOMES, INC**  
 TOWN OF CUMBER, RUTHERFORD COUNTY, NEW JERSEY  
 SCALE: AS SHOWN APPROVED BY: [Signature]  
 DATE: 06/20/2014 PROJECT NO: 2014-010 DESIGN SET: 02/AS  
**ZARECKI & ASSOCIATES, L.L.C.** SHEET NO. 8 OF 9  
 11 West Lakeside Parkway, NJ 07044 Telephone: (908) 771-1000  
 2014-010



**Legend**

|  |  |  |   |
|--|--|--|---|
|  | PROPERTY LINE  |  | PROPOSED WALKER CONTOUR                       |
|  | ADJ PROPERTY LINE  |  | PROPOSED UNDER CONTOUR                        |
|  | PROPOSED PROPERTY LINE                                     |  | PROPOSED CURB                                 |
|  | EXISTING BUILDING  |  | PROPOSED RETAINING WALL                       |
|  | EXISTING CURB  |  | PROPOSED CATCH BASIN                          |
|  | EXISTING BOX   |  | PROPOSED STORM PIPE                           |
|  | EXISTING CATCH BASIN/YARD DRAIN                            |  | PROPOSED SPOT ELEVATION                       |
|  | EXISTING MANHOLE   |  | PROPOSED LIMITS OF DISTURBANCE                |
|  | EXISTING WELL  |  | PROPOSED SOIL STOCKPILE                       |
|  | EXISTING STONE WALL  |  | PROPOSED SILT FENCE                           |
|  | EXISTING FIRE TRUCK BOX                                    |  | PROPOSED WALL MOUNTED LIGHT                   |
|  | EXISTING UTILITY POLE                                      |  | PROPOSED NEW LIGHT POLE OR EXISTING RELOCATED |
|  | EXISTING TREE  |  |   |
|  | EXISTING BUILDING MOUNTED LIGHT FIXTURE (APPROX LOCATIONS) |  |   |
|  | EXISTING PAVEMENT PAINTED ARROWS                           |  |   |

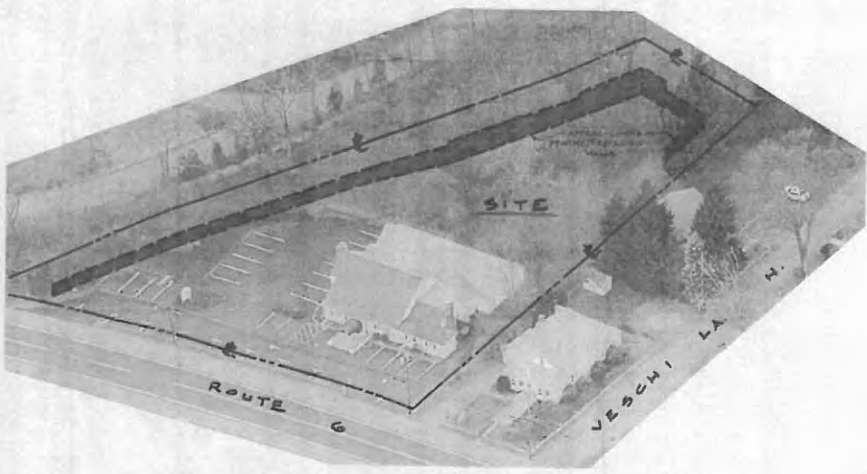
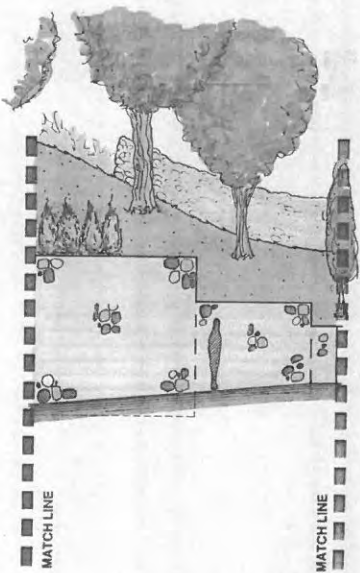
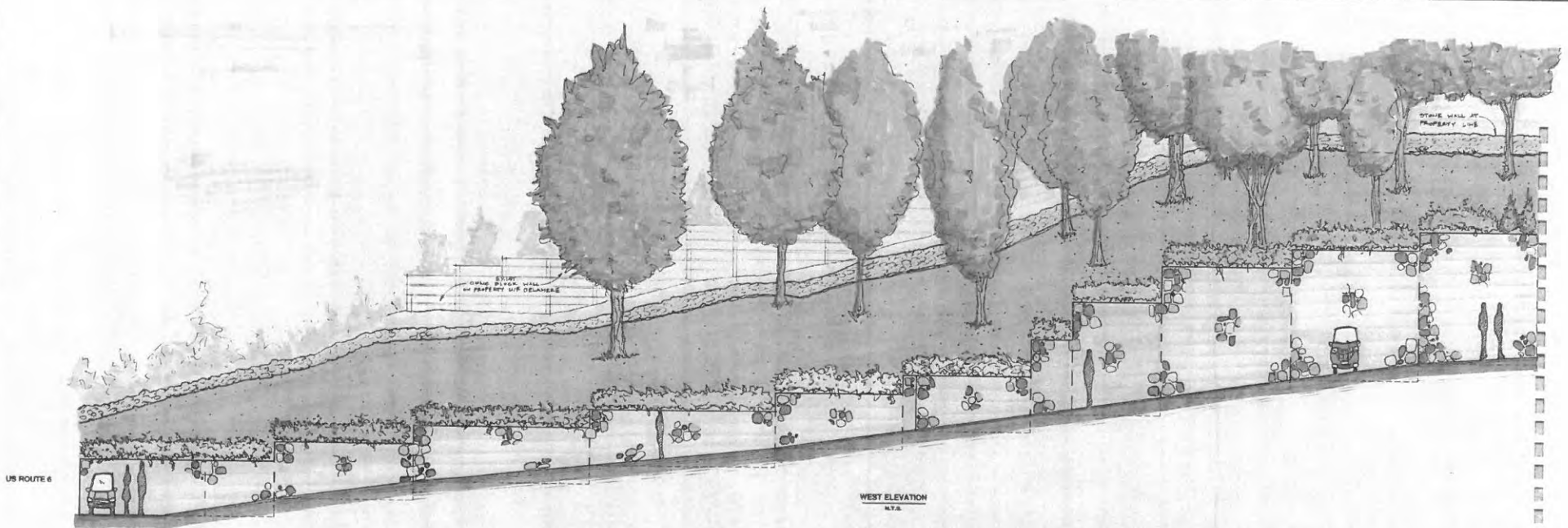


**CONSTRUCTION PHASING PLAN**  
**FOR**  
**CARGAIN FUNERAL HOMES, INC**  
 TOWN OF CARMEL, PUTNAM COUNTY, NEW YORK

SCALE: 1" = 20' APPROVED BY: [Signature] DRAWN BY: [Signature]  
 DATE: 12/28/2014 PROJECT NO.: 2014-010 DESIGN BY: CS/CSB

**ZARECKI & ASSOCIATES, L.L.C.**  
 Consulting Engineers - Land Surveyors - Architects  
 11 West Lake St., P.O. Box 107, Carmel, NY 12021  
 518-537-7721

9 OF 9



|   |                        |               |           |
|---|------------------------|---------------|-----------|
| RETAINING WALL RENDERING<br>FOR   |                        |               |           |
| <b>CARGAIN FUNERAL HOMES, INC</b>   |                        |               |           |
| <small>TOWN OF CARROLL, PUTNAM COUNTY, NEW YORK</small>                                       |                        |               |           |
| SCALE: N.T.S.   | APPROVED BY: <i>JS</i> | DESIGN BY: AB | SHEET No. |
| DATE: 10/25/2014  | PROJECT NO: 2014-010   | DESIGN BY: CS | 1 OF 1    |
| <b>ZARECKI &amp; ASSOCIATES, L.L.C.</b>   |                        |               |           |
| <small>Consulting Engineers - Land Surveyors - Architects</small>                             |                        |               |           |
| <small>11 West Main St., P.O. Box 17384<br/>Middletown, NY 13447<br/>845.863.8750 Fax</small> |                        |               |           |



ZARECKI  
&  
ASSOCIATES, L.L.C.

Engineers • Architects  
Surveyors

Joseph Zarecki, PE  
Jeffrey Hecker, LS  
Curt Johnson, RA

11 West Main St.  
Pawling, NY 12564  
(845) 855-3771  
(845) 855-3772 Fax  
Website: zarecki.com  
email: info@zarecki.com

Ridgefield, CT  
(203) 438-7094  
(203) 438-7157 Fax

July 28, 2015

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

Re: Cargain Funeral Home  
Amended Site Plan and Lot Line Realignment  
418 US Route 6  
Town of Carmel, Putnam County  
Tax Map #: 75.15-1-6 & 75.15-1-8 (Lot Line Realignment)  
75.15-1-6 (Amended Site Plan)

Dear Chairman Gary and Members of the Planning Board:

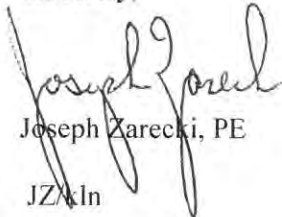
In September 2014, our office had submitted to the Planning Board an Amended Site Plan application for the above referenced project as well as a Lot Line Realignment between Thomas Fisher, Inc. and Joseph E. Simone.

The Planning Board subsequently prepared comments to both of the submittals, which our office had responded to (see enclosed detailed packages) and resubmitted to the Planning Board on October 29, 2014. Unfortunately, the Planning Board was unable to place this project on their agenda at that time.

We are enclosing for your convenience copies of our original submittal as well as the responses to the comments received from the Town Engineer and Code Enforcement Officer. At this time, we are respectfully requesting to be placed on the Wednesday, August 12, 2015 Planning Board agenda for both the Amended Site Plan and Lot Line Realignment.

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

Sincerely,



Joseph Zarecki, PE  
JZ/ln

enc.

cc: Client



ZARECKI  
&  
ASSOCIATES, L.L.C.

Engineers • Architects  
Surveyors

Joseph Zarecki, PE  
Jeffrey Hecker, LS  
Curt Johnson, RA

11 West Main St.  
Pawling, NY 12564  
(845) 855-3771  
(845) 855-3772 Fax  
Website: zarecki.com  
email: info@zarecki.com

Ridgefield, CT  
(203) 438-7094  
(203) 438-7157 Fax

October 29, 2014

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

Re: Cargain Funeral Home - Lot Line Adjustment Fisher/Simone  
418 US Route 6  
Town of Carmel, Putnam County  
Tax Map #: 75.15-1-6 & 75.15-1-8

Dear Chairman Gary and Members of the Planning Board:

This letter is in response to the memorandum dated September 12, 2014 from Mr. Michael G. Carnazza, Director of Code Enforcement regarding his comments from our October 2, 2014 submittal for the Lot Line Adjustment Fisher/Simone for the above referenced project. Please note that our responses to the comments are in **bold** print.

The following is enclosed for your review:

- Lot Line Realignment, Prepared for Thomas Fisher, Inc. & Joseph E. Simone, dated August 28, 2014
1. The application is for a Lot Line Adjustment to clear up an issue that the Simone parcel has the existing septic system on the adjoining property.  
**Response: Comment acknowledged.**
  2. Provide seal and signature of professional engineer or land surveyor preparing the plat. This must be on the submissions. Not just the final drawing.  
**Response: The enclosed Lot Line Realignment Plat has been signed by licensed NYS Land Surveyor.**

Please do not hesitate to contact me should you have any further questions or require any additional information.

Sincerely,

Joseph Zarecki, PE  
*(Signature)*

Joseph Zarecki, PE

JZ/kln

enc.

cc: Client

2014.010



ZARECKI  
&  
ASSOCIATES, L.L.C.

Engineers • Architects  
Surveyors

Joseph Zarecki, PE  
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11 West Main St.  
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October 29, 2014

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

Re: Cargain Funeral Home - Lot Line Adjustment Fisher/Simone  
418 US Route 6  
Town of Carmel, Putnam County  
Tax Map #: 75.15-1-6 & 75.15-1-8

Dear Chairman Gary and Members of the Planning Board:

This letter is in response to the memorandum dated October 20, 2014 from Mr. Richard J. Franzetti, PE, Town Engineer regarding his comments from our October 2, 2014 submittal for the Lot Line Adjustment Fisher/Simone for the above referenced project. Please note that our responses to the comments are in **bold** print.

- Per §155-61 of the Town of Carmel Town Code the registered professional should sign and seal the drawing.  
**Response: As requested, the Lot Line Realignment Plat has been signed and stamped by a licensed NYS Land Surveyor.**
- The applicant states that Putnam County Department of Health (PCDOH) is "okay" will the lot line adjustment. Documentation from the PCDOH should be provided to support this decision.  
**Response: Please note, that once the Putnam County Health Department signs off on the "Non-Jurisdictional" Approval Statement on the Lot Line Realignment Plat, a copy of the approved Plat will be provided the Planning Board as documentation of their approval.**

Please do not hesitate to contact me should you have any further questions or require any additional information.

Sincerely,

Joseph Zarecki, PE  
*(Signature)*

Joseph Zarecki, PE

JZ/kln

enc.

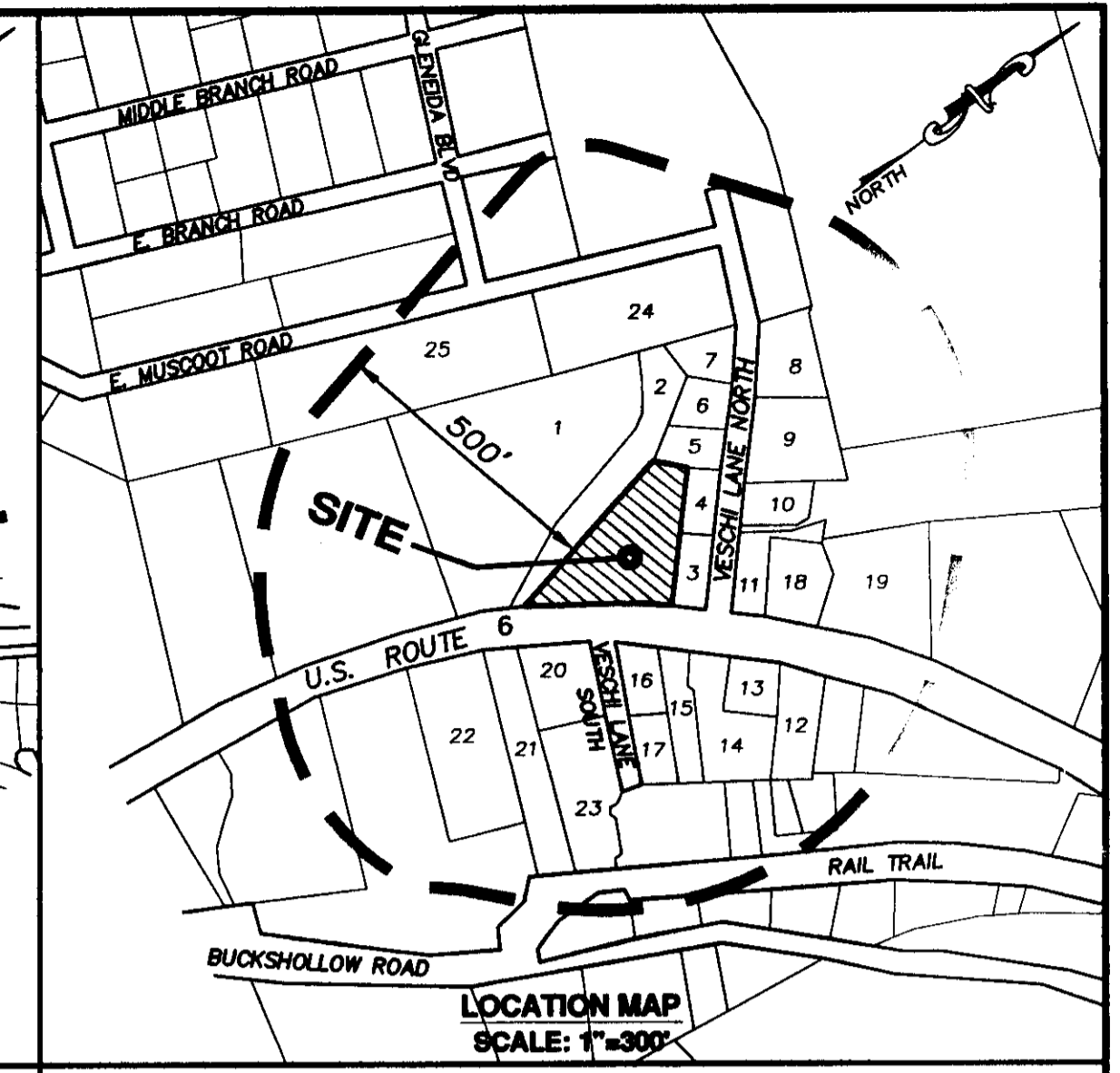
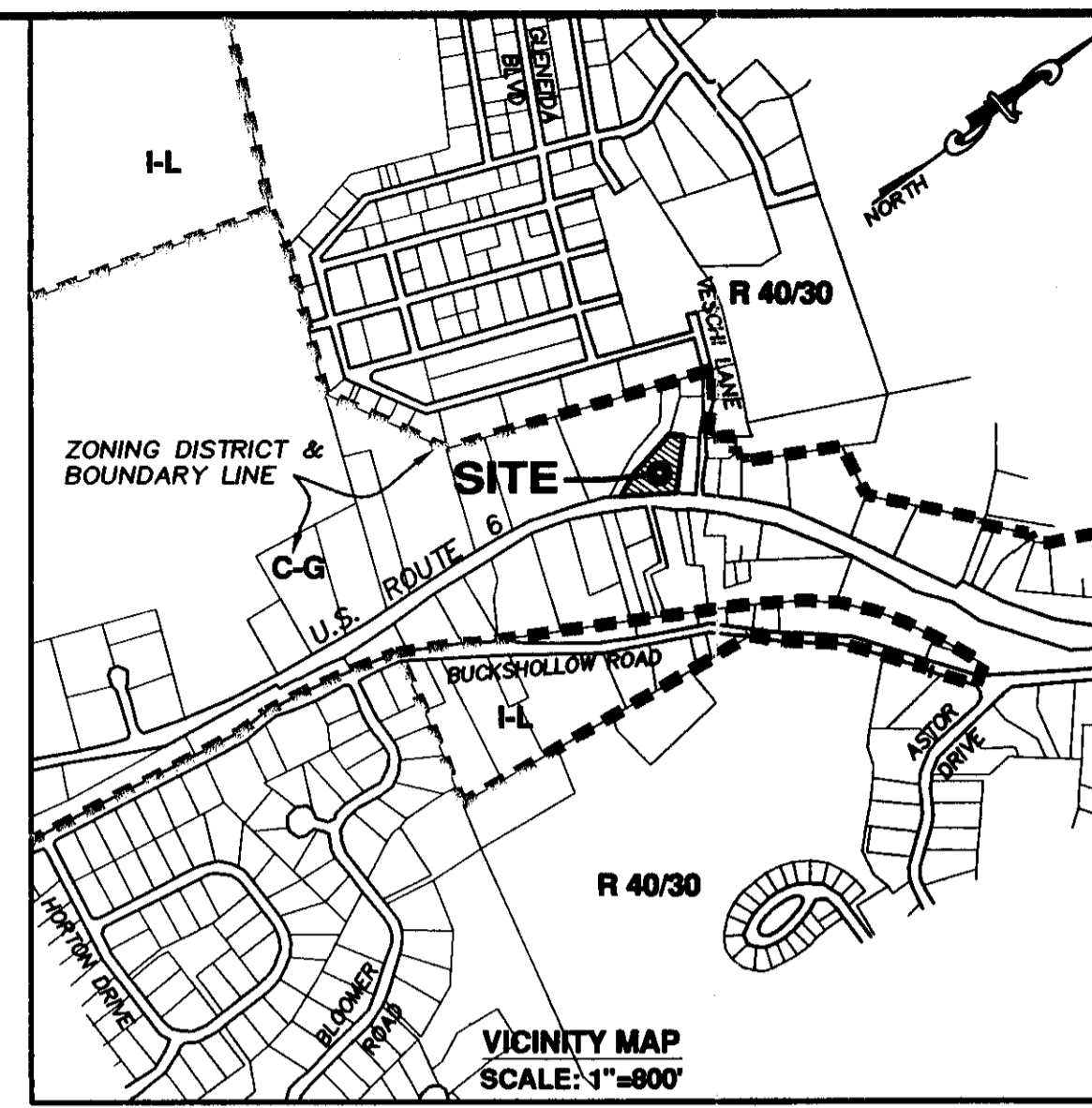
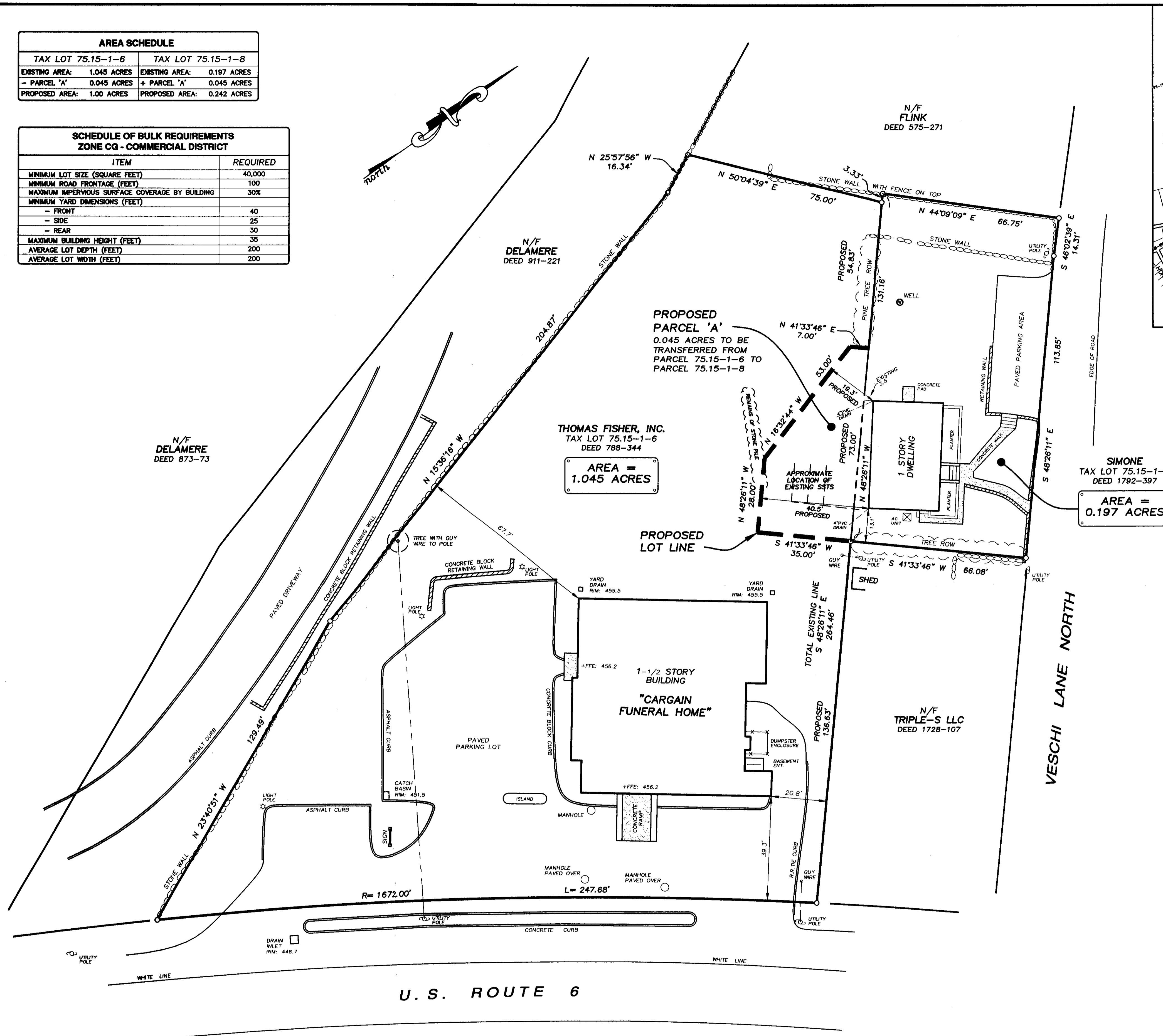
cc: Client

2014.010



| AREA SCHEDULE              |                            |
|----------------------------|----------------------------|
| TAX LOT 75.15-1-6          | TAX LOT 75.15-1-8          |
| EXISTING AREA: 1.045 ACRES | EXISTING AREA: 0.197 ACRES |
| - PARCEL 'A' 0.045 ACRES   | + PARCEL 'A' 0.045 ACRES   |
| PROPOSED AREA: 1.00 ACRES  | PROPOSED AREA: 0.242 ACRES |

| SCHEDULE OF BULK REQUIREMENTS<br>ZONE CG - COMMERCIAL DISTRICT |          |
|--|----------|
| ITEM   | REQUIRED |
| MINIMUM LOT SIZE (SQUARE FEET)                                 | 40,000   |
| MINIMUM ROAD FRONTAGE (FEET)                                   | 100      |
| MAXIMUM IMPERVIOUS SURFACE COVERAGE BY BUILDING                | 30%      |
| MINIMUM YARD DIMENSIONS (FEET)                                 |          |
| - FRONT  | 40       |
| - SIDE   | 25       |
| - REAR   | 30       |
| MAXIMUM BUILDING HEIGHT (FEET)                                 | 35       |
| AVERAGE LOT DEPTH (FEET)                                       | 200      |
| AVERAGE LOT WIDTH (FEET)                                       | 200      |



| PROPERTY OWNERS WITHIN 500'   |   |  |
|---|---|--|
| 1. PATRICK J. DELAMERE<br>TAX MAP # 75.15-1-4<br>P.O. BOX 158<br>MAHOPAC, NEW YORK 10541        | 10. TRAVIS B. MOLL<br>TAX MAP # 75.15-1-14<br>10 NORTH VESCHI LANE<br>MAHOPAC, NEW YORK 10541           | 19. ERIC GRUBER<br>TAX MAP # 75.16-1-32<br>426 ROUTE 6<br>MAHOPAC, NEW YORK 10541                  |
| 2. KATHLEEN F. DELAMERE<br>TAX MAP # 75.15-1-5<br>P.O. BOX 158<br>MAHOPAC, NEW YORK 10541       | 11. JOSEPH E. SIMONE<br>TAX MAP # 75.15-1-16<br>3 HAZEN LANE<br>CARMEL, NEW YORK 10512                  | 20. RICHARD SIGURJONSSON<br>TAX MAP # 75.19-1-7<br>246 BUCKSHOLLOW ROAD<br>MAHOPAC, NEW YORK 10541 |
| 3. TRIPLE-S, LLC<br>TAX MAP # 75.15-1-7<br>422 ROUTE 6<br>MAHOPAC, NEW YORK 10541               | 12. THOMAS SIMONE<br>TAX MAP # 75.16-1-21<br>150 BUCKSHOLLOW ROAD<br>MAHOPAC, NEW YORK 10541            | 21. NICOLE STERN<br>TAX MAP # 75.20-2-3<br>885 ROUTE 6<br>MAHOPAC, NEW YORK 10541                  |
| 4. JOSEPH E. SIMONE<br>TAX MAP # 75.15-1-8<br>7 NORTH VESCHI LANE<br>MAHOPAC, NEW YORK 10541    | 13. SCOTT NYGARD<br>TAX MAP # 75.16-1-22<br>427 ROUTE 6<br>MAHOPAC, NEW YORK 10541                      | 22. CONNELL PROPERTIES, INC.<br>TAX MAP # 75.20-2-4<br>18 TUCKAHOE ROAD<br>YONKERS, NEW YORK 10710 |
| 5. ADOLF FLINK<br>TAX MAP # 75.15-1-9<br>P.O. BOX 388<br>MAHOPAC, NEW YORK 10541                | 14. SCOTT NYGARD<br>TAX MAP # 75.16-1-23<br>121 HEATHER DRIVE<br>MAHOPAC, NEW YORK 10541                | 23. WM P. BINNS<br>TAX MAP # 75.20-2-2<br>5 SOUTH VESCHI ROAD<br>MAHOPAC, NEW YORK 10541           |
| 6. FRANK SELCA<br>TAX MAP # 75.15-1-10<br>17 NORTH VESCHI LANE<br>MAHOPAC, NEW YORK 10541       | 15. JACQUE REALTY CORPORATION<br>TAX MAP # 75.16-1-24<br>P.O. BOX 827<br>MAHOPAC, NEW YORK 10541        | 24. ANTHONY MORANDO<br>TAX MAP # 75.20-2-4<br>24 EAST MUSCOOT ROAD<br>MAHOPAC, NEW YORK 10541      |
| 7. ROBERT J. PLACKER<br>TAX MAP # 75.15-1-11<br>19 NORTH VESCHI LANE<br>MAHOPAC, NEW YORK 10541 | 16. LILLIAN BARRE<br>TAX MAP # 75.16-1-25<br>888 ROUTE 6<br>MAHOPAC, NEW YORK 10541                     | 25. MELVIN WENTHAUS<br>TAX MAP # 75.66-1-10<br>45 KNOWLEDGE ROAD<br>ELMSFORD, NEW YORK 10523       |
| 8. JOSEPH E. TINDALL<br>TAX MAP # 75.15-1-12<br>20 NORTH VESCHI LANE<br>MAHOPAC, NEW YORK 10541 | 17. DEBORAH A. DECESARE<br>TAX MAP # 75.16-1-26<br>20 STRAWBERRY FIELDS LANE<br>MAHOPAC, NEW YORK 10541 |  |
| 9. KATIE I. CROCCO<br>TAX MAP # 75.15-1-13<br>14 NORTH VESCHI LANE<br>MAHOPAC, NEW YORK 10541   | 18. KELY REALTY, INC.<br>TAX MAP # 75.16-1-31<br>30 RIAMORE ROAD<br>PATTERSON, NEW YORK 12563           |  |

**OWNER / APPLICANT:**  
TAX LOT:  
75.15-1-6  
THOMAS FISHER, INC  
10 FOWLER AVE  
CARMEL, NY 10512

THE UNDERSIGNED OWNER OF THE PROPERTY AND APPLICANT OF THE PROJECT HEREOF STATE THAT THEY ARE FAMILIAR WITH THIS MAP, ITS CONTENTS AND ALL SAID TERMS AND CONDITIONS AND HEREBY CONSENT TO THE FILING OF THIS PLAT.

OWNER \_\_\_\_\_ DATE \_\_\_\_\_

**OWNER / APPLICANT:**  
TAX LOT:  
75.15-1-8  
JOSEPH E. SIMONE  
7 VESCHI LANE NORTH  
MAHOPAC, NY 10541

THE UNDERSIGNED OWNER OF THE PROPERTY AND APPLICANT OF THE PROJECT HEREOF STATE THAT THEY ARE FAMILIAR WITH THIS MAP, ITS CONTENTS AND ALL SAID TERMS AND CONDITIONS AND HEREBY CONSENT TO THE FILING OF THIS PLAT.

OWNER \_\_\_\_\_ DATE \_\_\_\_\_

**PUTNAM COUNTY HEALTH DEPARTMENT  
"NON-JURISDICTIONAL" APPROVAL STATEMENT**

THIS IS TO CERTIFY THAT THE DIVISION OF LAND AS REPRESENTED ON THIS MAP DOES NOT FALL WITHIN THE DEFINITION OF SUBDIVISION AS SPECIFIED IN SECTION 1115 OF THE PUBLIC HEALTH LAW, AND SECTION 1117 OF THE PUBLIC HEALTH LAW, AND THEREFORE IS NOT APPLICABLE. THIS MAP IN NO WAY EXPLICIT OR IMPLIED, CONVEYS THE APPROVAL OF THE PUTNAM COUNTY DEPARTMENT OF HEALTH. APPROVAL OF THIS PLAT IS NOT REQUIRED, BUT ALL THE PROVISIONS OF THE PUTNAM COUNTY SANITARY CODE APPLY.

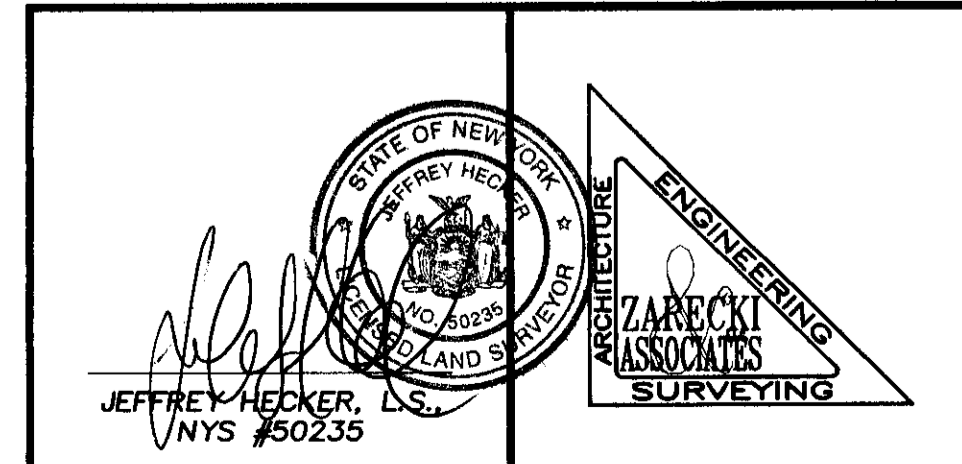
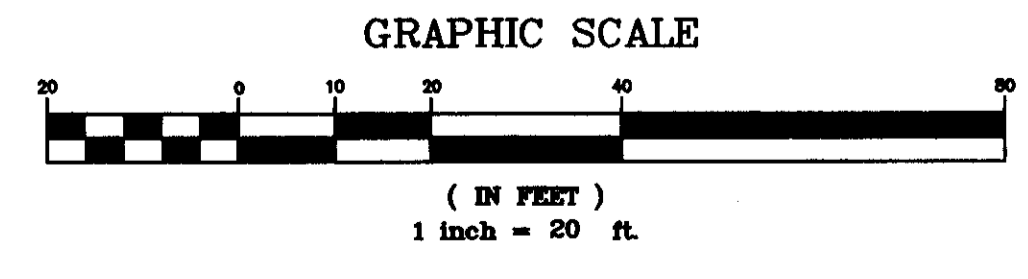
ENVIRONMENTAL HEALTH SERVICES \_\_\_\_\_ DATE \_\_\_\_\_

**TOWN OF CARMEL PLANNING BOARD APPROVAL**

APPROVED BY RESOLUTION OF THE PLANNING BOARD OF THE TOWN OF CARMEL, NEW YORK, ON THE \_\_\_\_\_ DAY OF \_\_\_\_\_, ANY CHANGES, ERASURE, MODIFICATION OR REVISION OF THIS PLAN, AS APPROVED, SHALL VOID THIS APPROVAL.

CHAIRMAN \_\_\_\_\_ DATE \_\_\_\_\_  
SECRETARY \_\_\_\_\_ DATE \_\_\_\_\_

CERTIFICATIONS HEREOF SIGNIFY THAT THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE EXISTING CODE OF PRACTICE FOR LAND SURVEYS ADOPTED BY THE NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS.  
UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW.  
ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH AN ORIGINAL OF THE LAND SURVEYOR'S INKED SEAL OR HIS EMBOSSED SEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES.



**LOT LINE REALIGNMENT**  
PREPARED FOR  
**THOMAS FISHER, INC &  
JOSEPH E. SIMONE**  
TOWN OF CARMEL, PUTNAM COUNTY, NEW YORK

SCALE: 1"=20' PROJECT NO.: 2014.010 DATE: 08/28/2014

**ZARECKI & ASSOCIATES, L.L.C.**  
Consulting Engineers - Land Surveyors - Architects  
11 West Main St., Pawling, NY 12564 Ridgefield, CT 06877  
845.855.3771 845.855.3772 (Fax) 203.438.7094

SHEET No.  
**1 OF 1**



**Emily Lloyd**  
Commissioner

August 3, 2015

Mr. Harold Gary  
Chairman  
Town of Carmel Planning Board  
60 McAlpin Avenue  
Mahopac, NY 10541

**Re:** Mahopac Wastewater Treatment Plant  
35 Mud Pond Road, Mahopac, NY  
Tax Map #65.17-1-41  
**Request for Release of Performance Bond**

Dear Mr. Gary:

The work at the NYC DEP Mahopac Wastewater Treatment Plant for the installation of a UV Disinfection System and Facility Improvements was performed in accordance with the approval granted by the Planning Board on October 12, 2011 (see attached Resolution). This work has been completed and an inspected was performed by the Town on June 29, 2015.

It is respectfully requested that the consideration for the release of the Perform Bond (copy attached) issued by Stratis Contracting Corp to the Town of Carmel be added to the Agenda of the next Planning Board Meeting.

If you require any additional information please do not hesitate to contact me at 914-406-5264.

Very truly yours,

A handwritten signature in blue ink that reads 'Patrick E. Sheehan'.

Patrick E. Sheehan  
Accountable Manager  
Water System Capital Program

cc: Ms. Rose Trombetta, Town of Carmel  
Ms. Marisa Landi, Haider Engineering  
Mr. Dennis Mulvey, Stratis Contracting

**Patrick E. Sheehan**  
Accountable Manager  
Bureau of Engineering  
Design & Construction  
[psheehan@dep.nyc.gov](mailto:psheehan@dep.nyc.gov)

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Valhalla, NY 10595  
T: (914) 406-5264