



PUBLIC NOTICE

US Army Corps
of Engineers
New York District
Jacob K. Javits Federal Building
New York, N.Y. 10278-0090
ATTN: Regulatory Branch

In replying refer to:
Public Notice Number: NAN-2015-01391-WOM
Issue Date: August 3, 2016
Expiration Date: September 2, 2016

To Whom It May Concern:

The New York District, Corps of Engineers has received an application for a Department of the Army permit pursuant to Section 404 of the Clean Water Act (33 U.S.C. 1344).

APPLICANT: Giocondo DiPietro
54 Old Mount Kisco Road
Armonk, New York 10504

ACTIVITY: Construction of a single-family residence on an approximately 2-acre lot, as well as a bridge/culvert crossing of the Mianus River, a gravel access driveway and parking court, and a septic area.

WATERWAY: Mianus River

LOCATION: Town of North Castle, Westchester County, New York.

A detailed description and plans of the applicant's activity are enclosed to assist in your review.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

ALL COMMENTS REGARDING THE PERMIT APPLICATION MUST BE PREPARED IN WRITING AND MAILED TO REACH THIS OFFICE BEFORE THE EXPIRATION DATE OF THIS NOTICE, otherwise, it will be presumed that there are no objections to the activity. Comments submitted in response to this notice will be fully considered during the public interest review for

CENAN-OP-RW
PUBLIC NOTICE NO. NAN-2015-01391-WOM

this permit application. Comments provided will become part of the public record for this permit application. All written comments, including contact information, will be made a part of the administrative record, available to the public under the Freedom of Information Act. The Administrative Record, or portions thereof, may also be posted on a Corps of Engineers internet web site. Due to resource limitations, this office will normally not acknowledge the receipt of comments or respond to individual letters of comment.

Any person may request, in writing, before this public notice expires, that a public hearing be held to collect information necessary to consider this application. Requests for public hearings shall state, with particularity, the reasons why a public hearing should be held. It should be noted that information submitted by mail is considered just as carefully in the permit decision process and bears the same weight as that furnished at a public hearing.

Our preliminary determination is that the activity for which authorization is sought herein is not likely to adversely affect any Federally endangered or threatened species or their critical habitat. However, pursuant to Section 7 of the Endangered Species Act (16 U.S.C. 1531), the District Engineer is consulting with the appropriate Federal agency to determine the presence of and potential impacts to listed species in the project area or their critical habitat.

Based upon a review of the latest published version of the National Register of Historic Places, there are no known sites eligible for, or included in, the Register within the permit area. Presently unknown archeological, scientific, prehistorical, or historical data may be lost by work accomplished under the required permit.

Reviews of activities pursuant to Section 404 of the Clean Water Act will include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404 (b) of the Clean Water Act and the applicant will obtain a water quality certificate or waiver from the appropriate state agency in accordance with Section 401 of the Clean Water Act prior to a permit decision.


In addition to any required water quality certificate and coastal zone management program concurrence, the applicant has obtained or requested the following governmental authorization for the activity under consideration:

- New York State Department of Environmental Conservation

It is requested that you communicate the foregoing information concerning the activity to any persons known by you to be interested and who did not receive a copy of this notice. If you have any questions concerning this application, you may contact this office at (917) 790-8417 and ask for Melanie O'Meara.

In order for us to better serve you, please complete our Customer Service Survey located at <http://www.nan.usace.army.mil/Missions/Regulatory/CustomerSurvey.aspx>.

For more information on New York District Corps of Engineers programs, visit our website at <http://www.nan.usace.army.mil>.


Stephan A. Ryba
For : Chief, Regulatory Branch

Enclosures

WORK DESCRIPTION

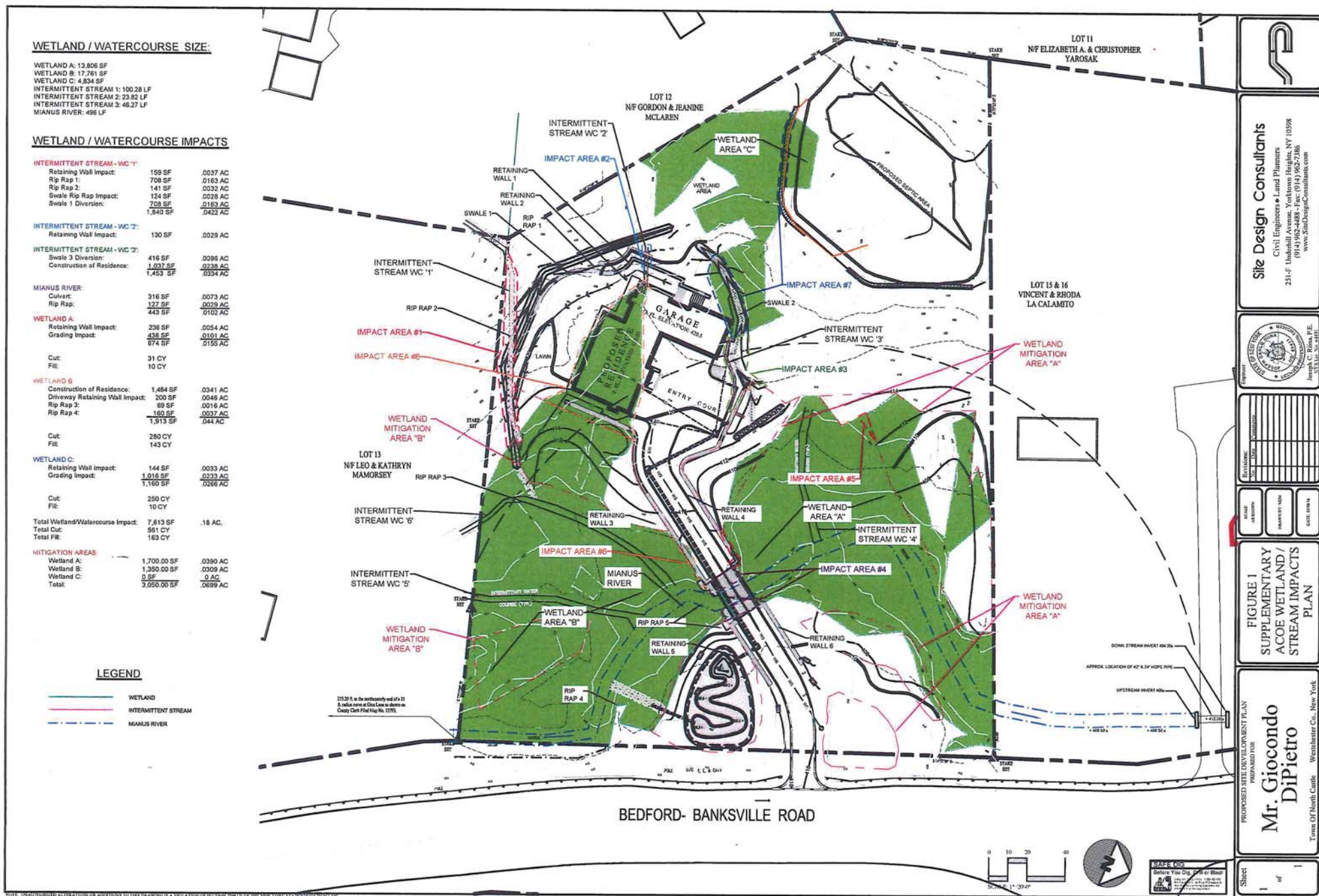
The applicant, Giocondo DiPietro, has requested Department of the Army authorization for a single-family residential development in the Mianus River watershed, in the Town of North Castle, Westchester County, New York.

The work would involve construction of a single-family residence on an approximately 2 acre lot, resulting in approximately 0.21 acres of permanent fill within the on-site waters. There are approximately 0.83 acres of wetland and approximately 415 linear feet of intermittent streams on the project site, which drain to the Mianus River, as well as a 496-foot-long portion of the Mianus River itself. The proposal includes the construction of a new residence, a bridge/culvert crossing of the Mianus River, a gravel access driveway and parking court, and a septic area. The proposed impact resulting from the crossing of the Mianus River would total approximately 0.01 acres and include the placement of a 24-foot-wide box culvert/bridge over the river and rip-rap along the banks. Wetland impacts would include construction of the residence, as well as retaining walls and grading for the driveway and septic area, and rip-rap at drainage outlets, and would result in a total of 0.16 acres of impact. Finally, impacts to the intermittent streams would total approximately 0.08 acres, and consist of diversion for the construction of the residence, residence and driveway retaining walls, and rip-rap along drainage areas.

Approximately 8,500 square feet (0.2 acres) of expanded and enhanced vegetative buffers along the edges of the wetland and the Mianus River, and restoration of previously disturbed areas, would be established as mitigation.

This project was previously authorized under Permit Number NAN-2006-385-EJE on June 4, 2008, and modified to include a time extension of the original permit (NAN-2006-00385-M1) on January 21, 2010. Work was not completed prior to either of the permit and extension expiration dates. Proposed impacts have not changed since the prior authorization.

The stated purpose of this project is to provide single family housing on the site.



APPLICANT: DIPIETRO, GIOCONDO

SITE PLAN NOTES:

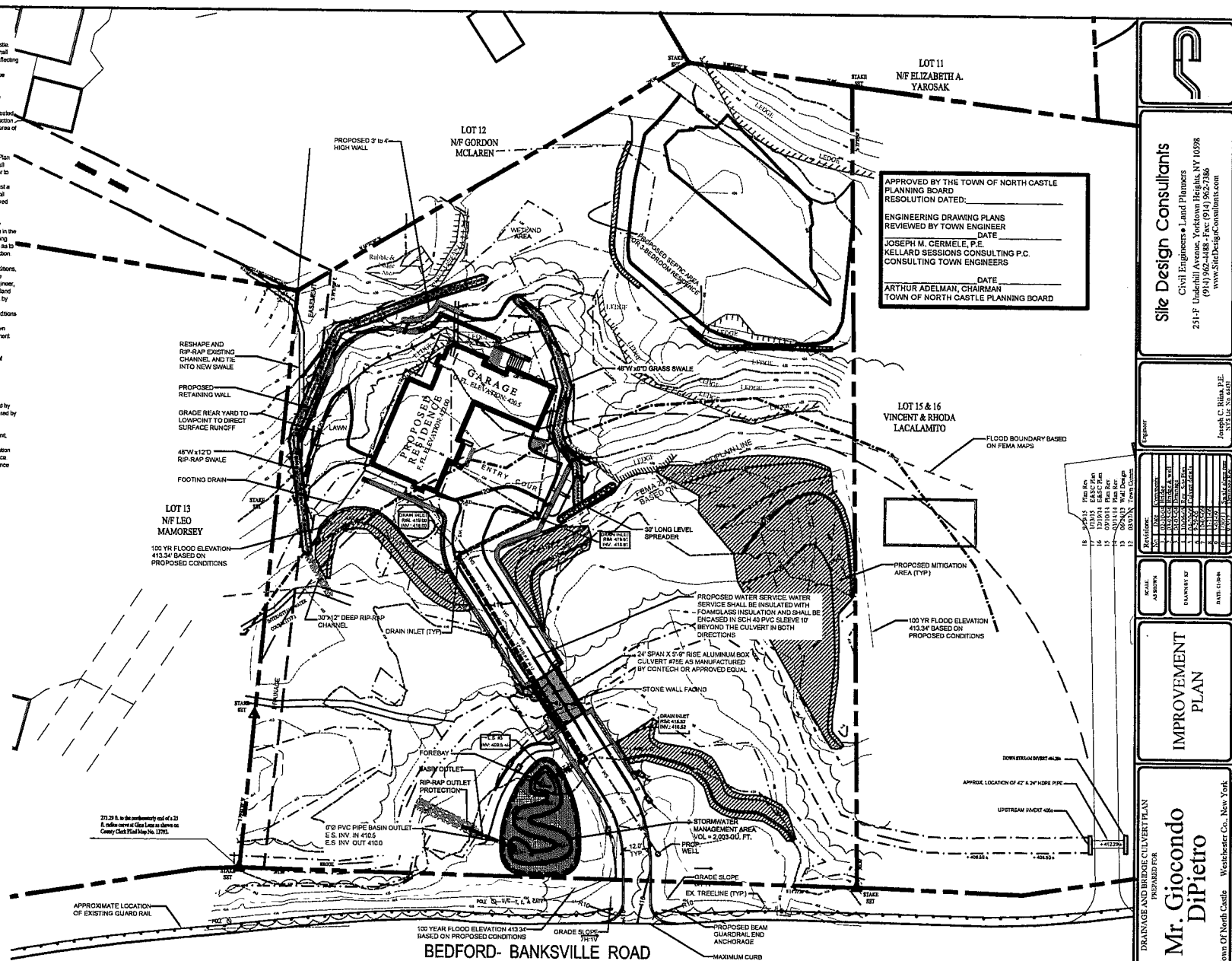
1. The Applicant shall comply with the wetland monitoring plan as provided by the Town of North Castle.
2. With the exception of the improvements shown on this plan, no construction or land disturbance shall take place within any Town-regulated wetland area or surrounding regulated buffer area or area affecting Town-regulated lines.
3. Prior to the start of construction and throughout the construction period, areas of disturbance shall be clearly delineated in the field with low fence or another demarcation acceptable to the Building Department and/or Town Engineer, which shall be placed around the entire proposed construction area. Except as necessary to provide mitigation plantings, no encroachment beyond these lines by workers or machinery shall be permitted.
4. Grading and clearing and other construction related activities shall take place only within the delineated area of disturbance lines. These areas of disturbance lines represent the maximum limits of construction activities. Every attempt shall be made to further reduce grading and clearing activities within the area of disturbance lines by maintaining natural vegetation and topography wherever practicable.
5. Prior to commencement of any site work, the Applicant shall stake the location of the proposed construction for inspection and approval by the Building Department and/or the Town Engineer.
6. All soil erosion and sedimentation control measures shown on the Erosion and Sediment Control Plan shall be in place prior to start of any site work. The Building Department and/or Town Engineer shall have inspected the installation of all required soil erosion and sedimentation control measures prior to the authorization to proceed with any phase of the site work.
7. Throughout the construction period, a qualified professional retained by the Owner shall, on at least a weekly basis, prior to any predicted rain event and after any runoff producing rain event, inspect soil erosion and sedimentation control measures to their proper functioning. Soil shall be removed from the site fence when bulges develop in the fence in accordance with Westchester County recommendations.
8. If during the course of construction, such conditions as flood areas, underground water, soft or sandy stream, improper drainage or any other unusual circumstances or conditions that were not forecast in the original planning are encountered, the Owner shall report such conditions immediately to the Building Department and/or Town Engineer. The Owner may submit if he so desires, his recommendations as to special treatment to be given such areas to secure adequate, permanent and satisfactory construction. The Building Department and/or Town Engineer, without unnecessary delay, shall investigate the condition or conditions, and shall either approve the Owner's recommendations to correct the conditions, order modification thereof, or issue his own specifications for the correction of the conditions. In the event of the Owner's disagreement with the decision of the Building Department and/or Town Engineer, or in the event of a significant change resulting to the site plan or any change that involves the wetland regulated areas, the matter shall be decided by the Planning Board. Any such conditions observed by the Planning Board or its agents shall be similarly treated.
9. Compliance with all applicable local laws and ordinances of the Town of North Castle and any conditions attached to permits issued thereunder.
10. The Owner shall provide erosion control and sedimentation measures to the satisfaction of the Town Engineer and in accordance with the measures set forth in the Westchester County Best Management Practices for Construction and Related Activities.
11. All landscaping shown on the Landscape Plan shall be maintained in a vigorous growing condition throughout the duration of this use. All plants not so maintained shall be replaced with new plants of comparable size and quality at the beginning of the next immediately following growing season.
12. The site improvements certify that there will be no flooding in the floodplain.

GENERAL NOTES:

1. In the event of an inconsistency between the information and details set forth on the plans prepared by Site Design Consultants, Sheets 1 through 5, last revised September 20, 2015 and the plans prepared by DiPietro & Associates, LLC, Sheets GP-1 through GP-10, last revised 09/25/14, the information and details contained in the Site Design Consultants' Plans shall control.
2. To comply with Condition #10 of the Planning Board Resolution granting "Site Plan, Wetlands Permit, Storm Water Permit and Tree Removal Approvals" originally issued on November 10, 2012, the "Wetland & Wetland Buffer Monitoring & Maintenance Plan" set forth on pages 11-13 of the Resolution has been attached to DiPietro & Associates, LLC's Sheet GP-8 and is incorporated herein by reference. The Owner of the Property must comply with the Wetland & Wetland Buffer Monitoring & Maintenance Plan as set forth in the Resolution.

LEGEND

- 222 --- EXISTING GRADING
- X-222-A- EXISTING SPOT GRADE
- 200 --- PROPOSED GRADING
- PROPERTY LINE / RIGHT OF WAY
- PROPOSED ROAD CENTERLINE
- PROPOSED CURB
- WS --- PROPOSED WATER SERVICE CONNECTION
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED HOUSE AND DRIVE
- PROPOSED DRAINAGE PIPE
- PROPOSED CATCH BASIN
- EXISTING WELL
- PROPOSED TEMPORARY SEDIMENT BASIN OUTLET
- EDGE OF WETLAND
- PROPOSED BEAM GUARD RAIL
- PROPOSED FOOTING DRAIN
- PROPOSED GRASS SWALE
- PROPOSED RETAINING WALLS



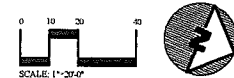
Site Design Consultants

Civil Engineers • Land Planners
251-17 Underhill Avenue, Yorktown Heights, NY 10598
(914) 941-1700
www.SiteDesignConsultants.com

Joseph C. Riccio, P.E.

IMPROVEMENT
PLANMr. Giocondo
DiPietro

Town of North Castle Westchester Co., New York



APPLICANT: DIPIETRO, GIOCONDO

[illegible]

Construction Sequence

- Prior to the beginning of any site work the major features of the construction must be field-staked by a licensed surveyor. These include the building, limits of disturbance, utility lines, and Shorewater markers.
- Prior to commencement of work, an on-site preconstruction meeting will be held. This will be attended by the owner responsible for any dunes or meadows, the Operator responsible for complying with the approved construction drawings including the EASC plan and details, the Environmental Planner responsible for EASC monitoring during construction, Town representatives from the Engineering Department and Code Enforcement.
- Temporary erosion and sediment controls (EASCs) on the approved construction drawings shall be installed as detailed. Install temporary sediment traps. The traps shall be constructed to suit requirements of the stormwater management basin and stabilized with seeding and crown barbs. Install firm stabilization of the site, and the traps will be removed to the final condition specified as per the Plan. Install permanent stabilization or vegetation where rock is exposed.

Phase I Culvert Installation

- 2 The driveway culvert shall be installed at the location shown. Work shall be done during wet conditions with no rain in the immediate forecast. The limits of the culvert shall be marked with survey offset stakes. All erosion measures shall be in place. A line of full fence shall be placed 4' to 6' to the top of the stream bank in parallel to the culvert. The fence shall be made of 1/2" x 4" wooden boards, nailed down and angled away from the stream at least 45°. It shall be in place on both sides of the culvert. Extreme care shall be taken to not damage the stream or allow any materials or debris to fall into the stream.
- 3 Clear and remove vegetation from the work area on the south side of the culvert. Create a level work area and install snow entrance abutments.
- 4 Reverse for the footing and pour the pour slab to the designated depth. Place all excavated material away from the stream. The footing on the north side shall be excavated by hand. Footing placed on concrete foundation or on deep shoring. Foundation shall be placed on stable soil or a maximum of 12" of compacted subgrade, crushed stone and concrete foundation shall be installed.
- 5 Once the foundation is set install culvert sections and secure the foundation as per the manufacturer's specifications. Then install and secure the end piers. Before to place a suitable amount of clean fill as per the manufacturer's requirements so that equipment may safely cross the culvert.
- 6 Construct the stone placement walls in the location and elevation shown. Excavate for the full foundations for the placement of crushed stone or concrete footings on the pier wall depths. For the foundation being set, begin constructing the walls. Upon completion backfill the culvert and abutments to 4" above the designated elevation to the top of the stream bank. The walls shall be constructed of 12" x 12" stone or concrete blocks with 4" concrete bordering the stream and the abutment. As shown on the plan and details section all disturbed areas on per permeable cover specifications. Install the stream rip-rap on the upstream side and stabilize the toe of the culvert abutment.

Phase II Driveway, Septic Area and Swales

- Work may then continue further into the estate. Install the remainder of the ground retention measures per the H&S Plan. Continue the driveway up to the house site. The remainder of the walls may be constructed along the driveway and the driveway stabilised with geotextiles.
- Perform the remainder of the clearing and grubbing. Remove the tree, break and stumps from the site and properly dispose of them. Retain some wood chips to be used for topsoil stabilisation. Perform general excavation to level the house pad.
- The improvements between the walls will be installed first. Once the house is placed there will be a limited amount of work. Following the path of the proposed formwork, construct a walk up to the house site. Install all of the mus-hemp-ramie fill as required by the approved septic plan. Move all of the fill into place and level to final grade. Transport the remainder of the materials needed to construct the septic system and store them from the house site. The house site will be covered with a 100mm layer of topsoil. The house site will be covered from rain from the location of construction to the septic system to a point of easy access near the house site.
- Simultaneously or just after, construct the two walls and level/sloped above the house site. Immediately stabilise the walls with geotextiles. The walls will be constructed with a 100mm layer of topsoil. The walls will be covered with geotextiles and gravel or hydro-mulch for final stabilisation. Prepare all of the floodplain stabilisation material and blanket the slope on the plain. Immediately plant and stabilise the areas as per the mitigation plan. The house site will be planted with the plant species listed in the H&S Plan. The house site will be planted with the grass and shrub species listed in the H&S Plan. The house site will be planted with the grass and shrub species listed in the H&S Plan. The house site will be planted with the grass and shrub species listed in the H&S Plan.

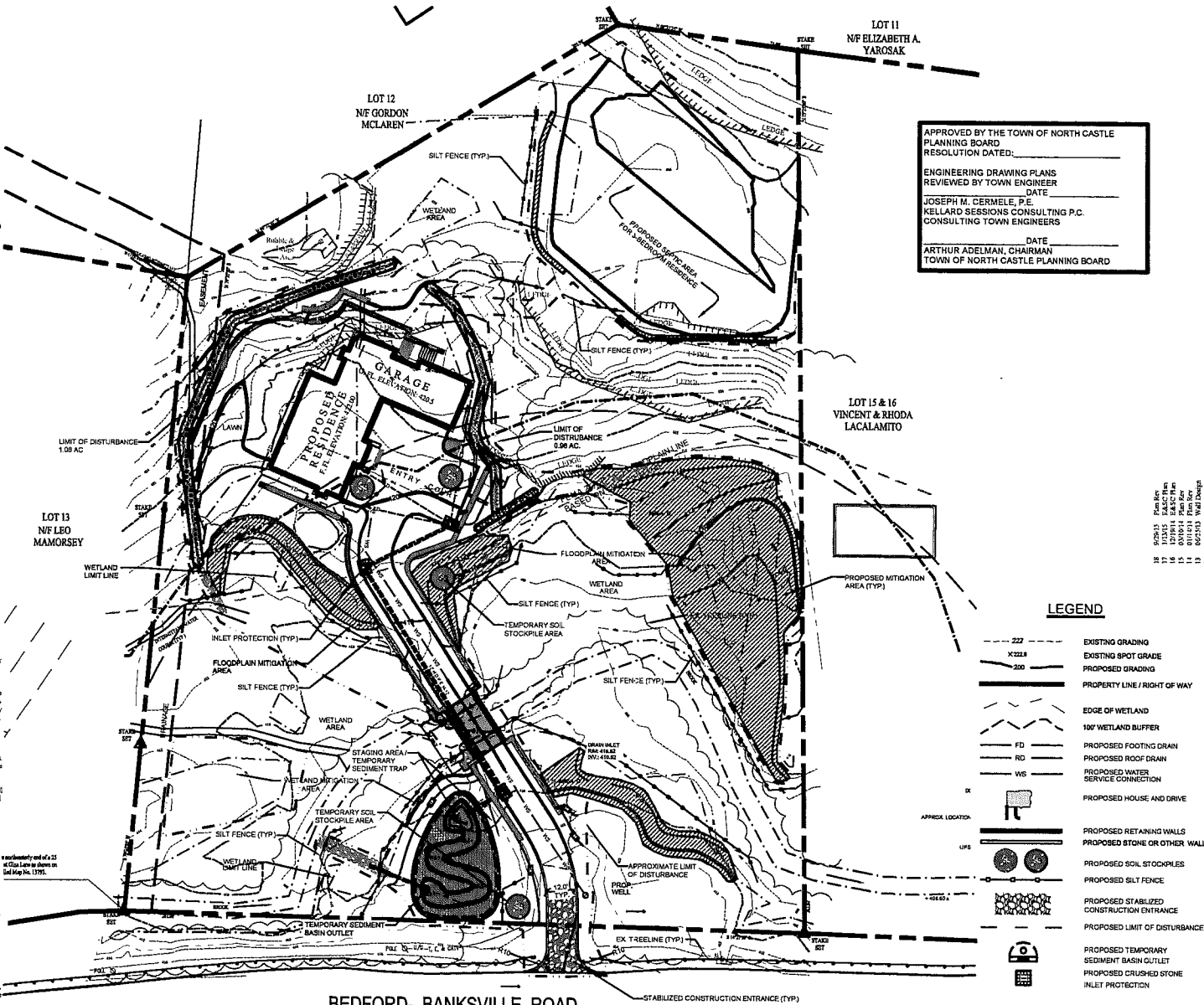
Phase III House and Retaining Wall

- 12 Excavate for and begin installation of the house foundation. Install footing drains and pipe to daylight as per plan. Upon completion of the foundation walls and drainage, backfill and grade the area around house. Begin landscaping construction.
- 13 Simultaneously complete the construction of the stone wall along the driveway and rear of the house. Install all underground utilities. Drill the proposed well and install the well and electric line up to the house. Insulate the well line to foundation. Install the drainage system up to the foundation and provide final erosion protection.
- 14 The septic system may be installed at any time after the septic pond has been met and the engineer has tested the fill section. All erosion controls shall be in place. The septic area shall have final stabilization upon completion.
- 15 Completion of the building can commence during steps 14 and 15.
- 17 Install curbing, base course material, and asphalt for the driveway and parking area. Complete the site improvements and final plantings including pools, walks, and steps.
- 18 Topsoil, rock, seed and mulch all disturbed areas.
- 19 Once all disturbances have received final stabilization measures remove the sediment trap and prepare to construct the stormwater basin. This shall be done during optional planting measures to insure plant survival. However, this shall not occur until after crop of precipitation is forecasted during the winter. Shape the final topography of basin. Construct outlet structure and rip-rap outlet protection. Install lawn and planting well in the basin. Plantings should occur in accordance with the planting plan. This shall be done from the site as deemed valid by the Town Engineer.
- 20 Upon stabilization of all disturbed areas and approval from the Town representative remove all temporary erosion and sediment controls.

The Construction Sequence is also shown on the Site Development Plans. A signature line for the Owner and Operator, if different, to certify that they have read, understand and agree to follow the Site Development, including the Construction Sequence and Erosion and Sedimentation Control Plan.

Responsible Party during and after Construction

Jack DiPietro
51 Old Mt. Kisco Road
Armonk, NY 10504
914-403-4130
21



APPROVED BY THE TOWN OF NORTH CASTLE
PLANNING BOARD
RESOLUTION DATED: _____

ENGINEERING DRAWING PLANS
REVIEWED BY TOWN ENGINEER
DATE

JOSEPH M. CERMELE, P.E.
KELLARD SESSIONS CONSULTING P.C.
CONSULTING TOWN ENGINEERS

DATE _____
ARTHUR ADELMAN, CHAIRMAN
TOWN OF NORTH CASTLE PLANNING BOARD

18	9/20/15	Plan Rev
17	1/13/15	E&SC Plan
16	12/19/14	E&SC Plan
15	03/10/14	Plan Rev
14	01/14/14	Plan Rev
13	06/25/13	Wall Design

LEGEND

- | | |
|--|---|
| | EXISTING GRADING |
| | EXISTING SPOT GRADE |
| | PROPOSED GRADING |
| | PROPERTY LINE / RIGHT OF WAY |
| | EDGE OF WETLAND |
| | 100' WETLAND BUFFER |
| | PROPOSED FOOTING DRAIN |
| | PROPOSED ROOF DRAIN |
| | PROPOSED WATER SERVICE CONNECTION |
| | PROPOSED HOUSE, AND DRIVE |
| | PROPOSED RETAINING WALLS |
| | PROPOSED STONE OR OTHER WALL |
| | PROPOSED SOIL STOODLES |
| | PROPOSED SILT FENCE |
| | PROPOSED STABILIZED CONSTRUCTION ENTRANCE |
| | PROPOSED LIMIT OF DISTURBANCE |
| | PROPOSED TEMPORARY SEDIMENT BASIN OUTLET |
| | PROPOSED CRUSHED STONE INLET PROTECTION |



SAFE DIG
Before You Dig

Site Design Consultants

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EROSION & SEDIMENT PLAN

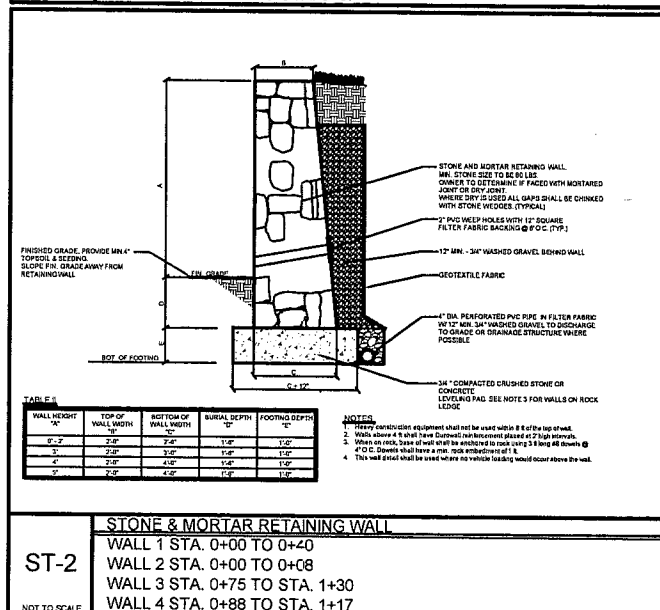
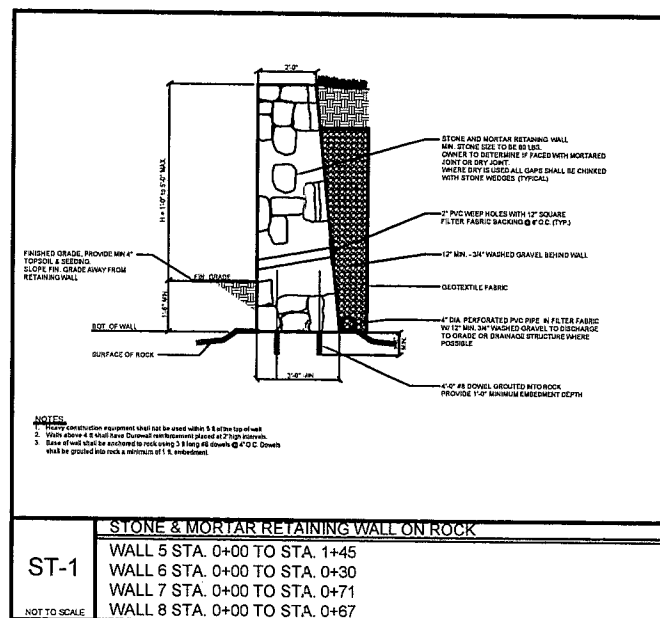
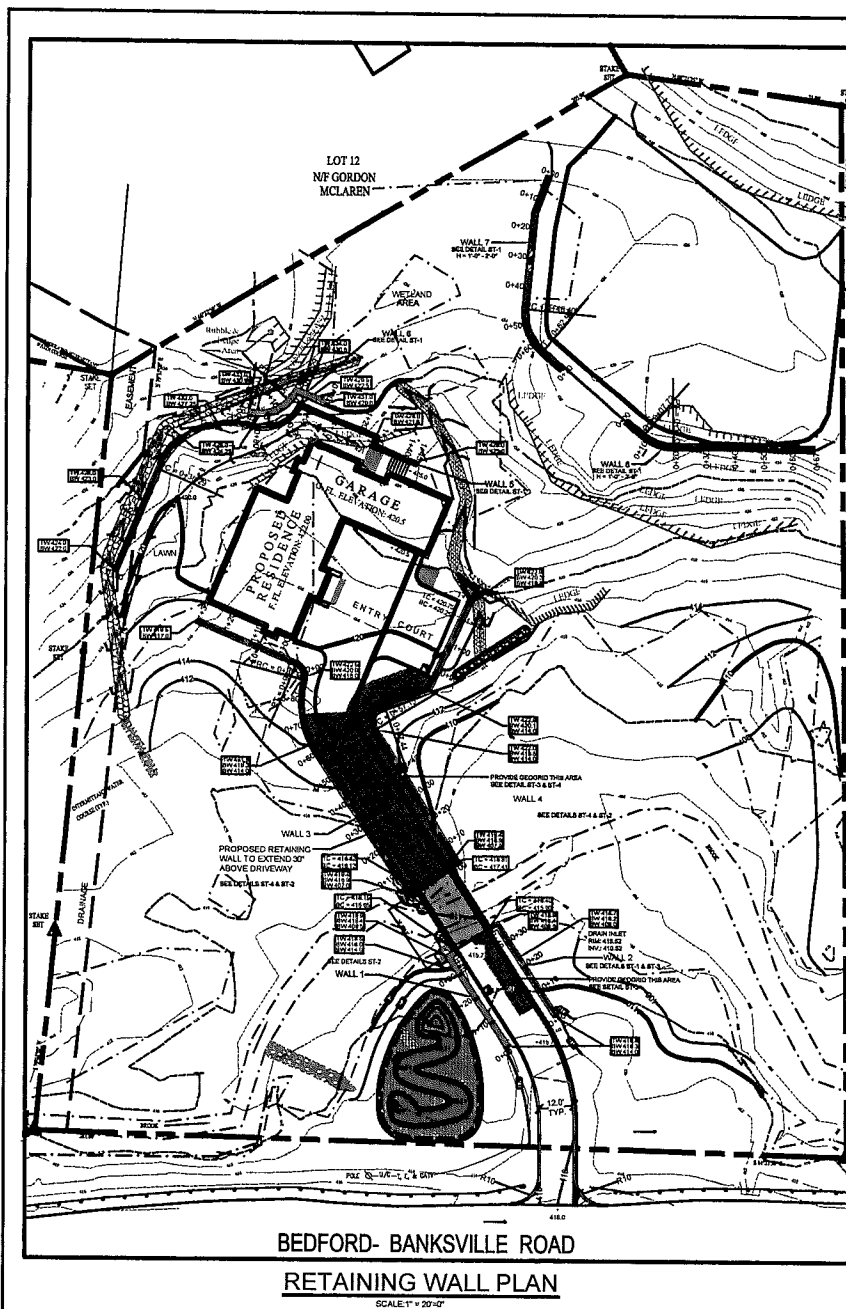
Mr. Giocondo
DiPietro

Town Of North Castle Westchester Co. New York

Sheet 2 of 9

NOTE: UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 1207.2 OF THE NEW YORK STATE EDUCATION LAW.

APPLICANT: DIPIETRO, GIOCONDO



APPROVED BY THE TOWN OF NORTH CASTLE
PLANNING BOARD
RESOLUTION DATED: _____
ENGINEERING DRAWING PLANS
REVIEWED BY TOWN ENGINEER
JOSEPH M. GERMEL, P.E.
DATE _____
KELLARD SESSIONS CONSULTING P.C.
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ARTHUR ADELMAN, CHAIRMAN
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(914) 962-4188 • Fax: (914) 962-7386
www.SiteDesignConsultants.com

Joseph C. Rina, P.E.
NY License No. 04181

Revisions	No.	Date	Description
1	02/26/15	Final Rev.	Final Design
2	03/03/15	Final Rev.	Final Design
3	03/03/15	Final Rev.	Final Design
4	03/03/15	Final Rev.	Final Design
5	03/03/15	Final Rev.	Final Design
6	03/03/15	Final Rev.	Final Design
7	03/03/15	Final Rev.	Final Design
8	03/03/15	Final Rev.	Final Design
9	03/03/15	Final Rev.	Final Design
10	03/03/15	Final Rev.	Final Design
11	03/03/15	Final Rev.	Final Design
12	03/03/15	Final Rev.	Final Design

SCALE: 1" = 20'-0"

WALL LAYOUT PLAN

Mr. Giocondo DiPietro
Town of North Castle, Westchester Co., New York

Sheet 4 of 9

APPLICANT: DIPIETRO, GIOCONDO

Wall Notes:

1. SOIL REINFORCEMENT/GEGRID SHALL BE AS SHOWN AND SHALL BE MANUFACTURED BY THE TENSAR CORPORATION, MORROW, GEORGIA.
2. THE GEGRID SHALL BE ORIENTED WITH THE ROLL DIRECTION PERPENDICULAR TO THE WALL FACE.
3. TENSAR GEGRIDS SHALL BE CONSTRUCTED IN ACCORDANCE WITH INSTALLATION PROCEDURES ESTABLISHED BY TENSAR EARTH TECHNOLOGIES.
4. THE CONTRACTOR SHALL PROVIDE PROPER SURFACE DRAINAGE DURING AND AFTER CONSTRUCTION TO MINIMIZE WATER INFILTRATION INTO THE REINFORCED SOIL ZONE.
5. GEGRIDS SHALL BE INSTALLED AT THE SPECIFIED ELEVATIONS SHOWN ON THE WALL SECTIONS.
6. TENSAR GEGRIDS SHALL BE PULLED TAUT UNTIL SUFFICIENT FILL IS PLACED OVER THE GEGRIDS TO MAINTAIN TENSION IN THE GEGRID. "U" SHAPED PINS SHALL BE USED TO FACILITATE INSTALLATION.
7. CONSTRUCTION EQUIPMENT SHALL NOT BE PERMITTED ON THE GEGRID PRIOR TO THE PLACEMENT OF A MINIMUM OF 8" THICKNESS OF SOIL.
8. EXCAVATION IN GENERAL SHALL CONFORM TO THE LINES AND GRADES SHOWN ON THE CONTRACT DRAWINGS.
9. SOILS USED AS BACKFILL WITHIN THE REINFORCED ZONE SHALL CONSIST OF SOUND DURABLE PARTICLES TO THE GRADATION SHOWN IN THE TABLE BELOW. THE MATERIAL SHALL BE GRANULAR AND FREE OF ORGANIC OR OTHER DELETERIOUS MATERIAL. IN GENERAL, THE SOIL SHALL BE NON-PLASTIC WITH A PLASTICITY INDEX LESS THAN 5 AND SHALL CONFORM TO THE AASHTO SOIL CLASSIFICATION SYSTEM FOR AN "A-1" SOIL. HOWEVER, THE MAXIMUM SIZE SHALL BE 2". IN GENERAL, ALL FILL SHALL BE APPROVED BY THE ENGINEER PRIOR TO ITS USE. WET MATERIAL OR UNSUITABLE MATERIAL SHOULD NOT BE USED WITHIN THE REINFORCED SOIL ZONE.
10. IF ON-SITE EXCAVATED MATERIAL IS USED IT MUST CONFORM TO THE SAME MINIMUM SIZE AS SPECIFIED.

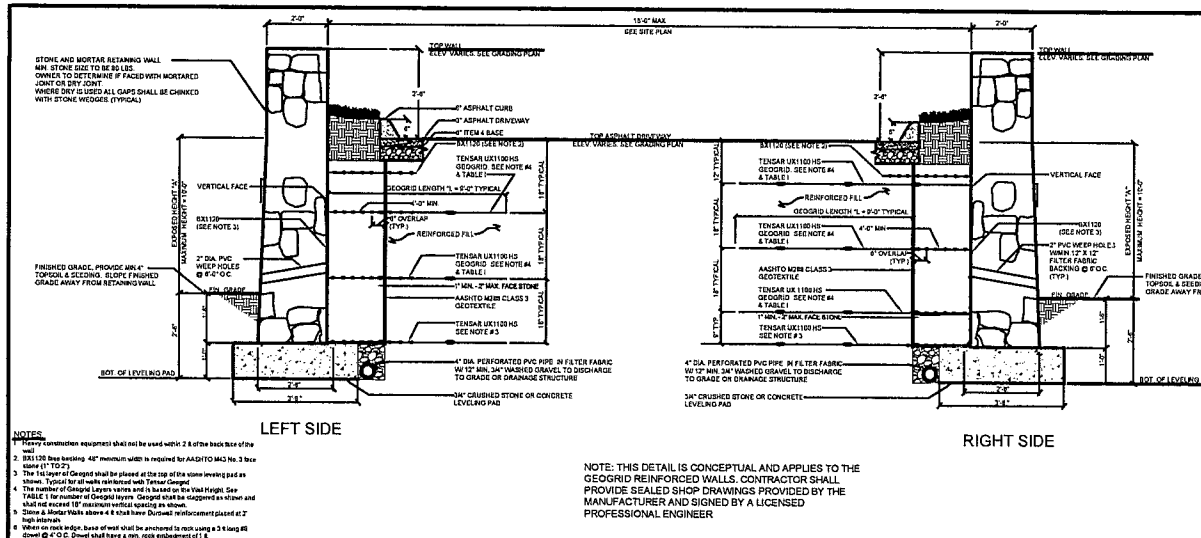
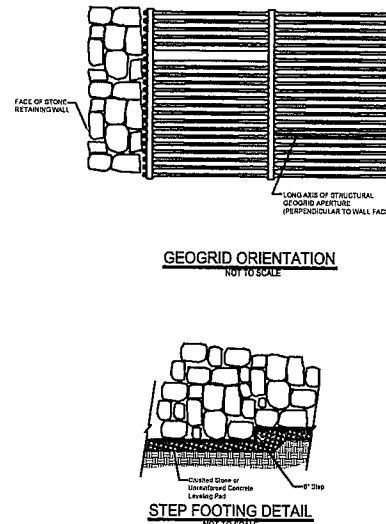
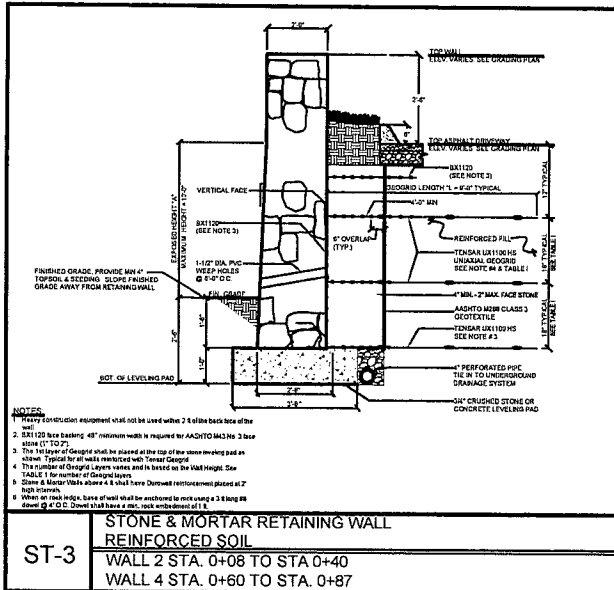
REINFORCED ZONE FILL

SEIVE SIZE	PERCENT PASSING BY WEIGHT
2"	100
No. 10	50 MAX
No. 40	30 MAX
No. 200	15 MAX

11. SOIL WITHIN THE REINFORCED ZONE SHALL BE PLACED IN LOOSE 8" LIFTS. EACH LIFT SHALL BE COMPACTED TO A MINIMUM OF 90% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY A.S.T.M. D1557 METHOD C.
12. EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH THE "CONSTRUCTION SAFETY AND HEALTH ACT" (O.S.H.A.) PART 1926 SUB-PART P.
13. GEOTEXTILE FABRIC SHALL BE TREVIRA SPUNBOND NON-WOVEN #125 OR APPROVED EQUAL. THE GEOTEXTILE SHALL BE INSTALLED AS PER THE MANUFACTURER'S RECOMMENDATIONS AND GUIDELINES.
14. THE CONTRACTOR SHALL NOT USE LARGE OR HEAVY CONSTRUCTION EQUIPMENT WITHIN 5' OF THE RETAINING WALLS. HAND OPERATED COMPACTING EQUIPMENT SHALL BE USED WITHIN 5' OF THE WALL FACE.
15. FOOTINGS CONSTRUCTED ON VIRGIN IN-SITU SOIL SHALL HAVE A MINIMUM ALLOWABLE BEARING CAPACITY OF 2 TSF.
16. TO INSURE A PROPER BEARING SURFACE FOR THE FOOTINGS CONSTRUCTED ON NATURAL IN-SITU SOIL, THE CONTRACTOR SHALL STRIP ALL TOP SOIL. PRIOR TO CONSTRUCTION OF THE FOOTINGS, THE AREA SHALL BE COMPACTED USING SUITABLE COMPACTION EQUIPMENT. A MINIMUM 3 PASSES SHALL BE MADE OF THE WALL SIMULTANEOUSLY.
17. ALL FOOTINGS SHALL BE LOCATED AS SHOWN ON THE DETAILS.
18. ALL CONCRETE SUPPLIED TO THE PROJECT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH $f'_c = 4000$ PSI AND SHALL CONTAIN A MINIMUM 5% AIR ENTRAINING ADMIXTURE IN ACCORDANCE WITH A.S.T.M. C 260. $f_y = 60,000$ PSI.
19. FOOTINGS SHALL NOT BE CONSTRUCTED ON WET OR FROZEN GROUND.
20. THE ENGINEER SHALL BE NOTIFIED OF UNSUITABLE SUB-GRADE SOILS PRIOR TO PLACEMENT OF THE GEGRID REINFORCED SOIL.

TABLE I

EXPOSED WALL HEIGHT "A"	TENSAR GEGRID TYPE	TOTAL NUMBER OF LAYERS
2'-0"	—	—
3'-0"	—	—
4'-0"	—	—
5'-0"	UX 1100 H	4
6'-0"	UX 1100 H	4
7'-0"	UX 1100 H	5
8'-0"	UX 1100 H	6
9'-0"	UX 1100 H	6
10'-0"	UX 1100 H	7



NOTE: THIS DETAIL IS CONCEPTUAL AND APPLIES TO THE GEGRID REINFORCED WALLS. CONTRACTOR SHALL PROVIDE SEALED SHOP DRAWINGS PROVIDED BY THE MANUFACTURER AND SIGNED BY A LICENSED PROFESSIONAL ENGINEER

Site Design Consultants
Civil Engineers & Land Planners
251-F. Hudson Avenue, Yonkers Heights, NY 10598
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Joseph C. Riba, P.E.
NY License No. 4481

DATE	REVISION	BY	CHKD
11/10/15	1	AS/JS	AS/JS
12/10/15	2	AS/JS	AS/JS
03/01/16	3	AS/JS	AS/JS
06/24/16	4	AS/JS	AS/JS
03/07/17	5	AS/JS	AS/JS

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RETAINING WALL DETAILS

Mr. Giocondo DiPietro
Town Of North Castle, Westchester Co., New York

Sheet 5 of 9

APPLICANT: DIPIETRO, GIOCONDO

GENERAL EROSION CONTROL NOTES:

- Contractor shall be responsible for compliance with all sediment and erosion control practices. The sediment and erosion control practices are to be installed prior to any major soil disturbances, and maintained until permanent protection is established. Road surface flows from the site should be discharged with tracking pad or appropriate measures during adjacent road shoulder grading. Contractor is responsible for the installation and maintenance of all soil erosion and sedimentation control devices throughout the course of construction.
- Catch basin inlet protection must be installed and operating at all times until tributary areas have been stabilized. When possible flows should be stabilized before reaching inlet protection structure. Timing of maintenance of sediment control structures is the responsibility of the Contractor.
- All structures shall be maintained in good working order at all times. The sediment level in all sediment traps shall be closely monitored and sediment removed promptly when maximum levels are reached or as ordered by the engineer. All sediment control structures shall be inspected on a regular basis, and after each heavy rain to insure proper operation as designed. An inspection schedule shall be set forth prior to the start of construction.
- The locations and the installation times of the sediment capturing standards shall be as specified in these plans, as ordered by the Engineer, and in accordance with the latest edition of the "New York Standards and Specifications for Erosion and Sediment Control" (NYSESC).
- All silt traps shall be placed in a stabilized stockpile for reuse on the site. All stockpile material required for final grading and stored on site shall be temporarily seeded and mulched within 7 days. Refer to soil stockpile details.
- Any disturbed area that will be left exposed more than 7 days and not subject to construction traffic, shall immediately receive temporary seeding. Mulch shall be used if the season prevents the establishment of a temporary cover. Disturbed areas shall not be limed and fertilized prior to temporary seeding.
- All disturbed areas within 500 feet of an occupied dwelling shall be seeded as necessary to provide dust control.
- The contractor shall keep the roadways within the project clear of soil and debris and is responsible for any street cleaning necessary during the course of the project.
- Sediment and erosion control structures shall be removed and the area stabilized when the drainage area has been properly stabilized by permanent measures.
- All sediment and erosion control measures shall be installed in accordance with current edition of NYSESC.
- Any seeded areas must be stabilized appropriately prior to any rock blasting, cutting, and/or filling of soils. Special care should be taken during construction to ensure stability during maintenance and integrity of control structures.
- Any slopes graded at 3:1 or greater shall be stabilized with erosion blankets to be staked into place in accordance with the manufacturer's requirements. Erosion blankets may also be required at the discretion of Town officials or Project Engineer. When stabilized blanket is utilized for channel stabilization, place all of the volume of seed mix prior to laying net, or as recommended by the manufacturer.
- To prevent heavy construction equipment and trucks from tracking soil off-site, construct a pervious crushed stone pad. Locate and construct pads as detailed in these plans.
- Contractor is responsible for controlling dust by sprinkling exposed soil areas periodically with water as required. Contractor to supply all equipment and water.
- Contractor shall be responsible for construction inspections as per NYSESC OP-10-001 and Town of North Castle Code.

MAINTENANCE OF TEMPORARY EROSION AND SEDIMENT CONTROL STRUCTURES:

NYSDOT E-10-001 EXPOSURE RESTRICTIONS - States that any exposed earthwork shall be stabilized in accordance with the guidelines of the plan.

- Trees and vegetation shall be protected at all times as shown on the detail drawing and as directed by the Engineer.
- Care should be taken as to not channel concentrated runoff through the areas of construction activity on the site.
- Fill and soil disturbances should not be created which causes water to pond off site or on adjacent properties.
- Runoff from land disturbances shall not be discharged or have the potential to discharge off without first being intercepted by a control structure, such as a sediment trap or silt fence. Sediment shall be removed before exceeding 50% of the retention structure's capacity.
- For limited grading, adequate grade shall be provided so that water will not pond on areas for more than 24 hours after rainfall, except in swale flow areas which may drain for as long as 48 hours after rainfall.
- All swales and other areas of concentrated flow shall be properly stabilized with temporary control measures to prevent erosion and sediment travel. Surface flows over cut and fill areas shall be stabilized at all times.
- All sites shall be stabilized with erosion control materials within 7 days of final grading.
- Temporary sediment trapping devices shall be removed from the site within 30 days of final stabilization.

MAINTENANCE SCHEDULE:

	DAILY	WEEKLY	MONTHLY	AFTER RAINFALL	NECESSARY TO MAINTAIN FUNCTION	AFTER APPROVAL OF INSPECTOR
SILT FENCE	—	—	—	—	—	REMOVE
WHOLE CLEANER	—	—	—	—	—	REMOVE
INLET PROTECTION	—	—	—	—	—	REMOVE

MAINTENANCE OF PERMANENT CONTROL STRUCTURES DURING CONSTRUCTION:

The stormwater management system and outlet structure shall be inspected on a regular basis and after every rainfall event. Sediment build up shall be removed from the inlet protection regularly to insure detention capacity and proper drainage. Outlet structure shall be free of obstructions. All piping and drain inlets shall be free of obstruction. Any sediment build up shall be removed.

MAINTENANCE OF CONTROLS AFTER CONSTRUCTION:

Controls (including respective outlet structures), should be inspected periodically for the first few months after construction, and on an annual basis thereafter. They should also be inspected after major storm events.

PERMANENT LITTER REMOVAL:

Once a year, inspect outlet structure and drain inlets for accumulated debris. Also, remove any accumulations during each mowing operation.

STRUCTURAL REPAIR/REPLACEMENT:

Outlet structure must be inspected twice a year for evidence of structural damage and repaired immediately.

EROSION CONTROL:

Unstable areas tributary to the basin shall immediately be stabilized with vegetation or other appropriate erosion control measures.

SEDIMENT REMOVAL:

Sediment should be removed after it has reached a maximum depth of two inches above the stormwater management system floor.

TOPSOIL:

Existing topsoil will be removed and stored in piles sufficiently as to avoid mixing with other excavations. Stockpiles shall be surrounded by erosion control as outlined on these plans. The topsoil of new topsoil shall be of a better or equal to the following (NYSDOT).

Gravel	Gravel Size	Graveling by Weight
1	2 INCH	100
2	1 INCH	85 TO 100
3	1/4 INCH	65 TO 100
4	NO 200 MESH	20 TO 80

PERMANENT VEGETATIVE COVER:**Site Preparation:**

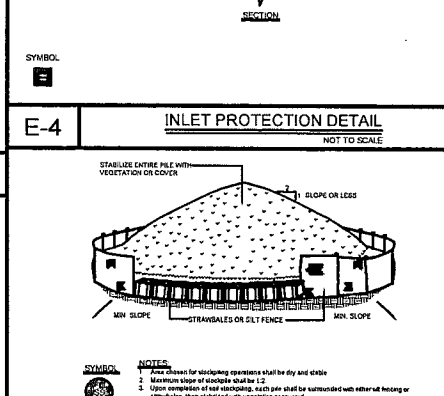
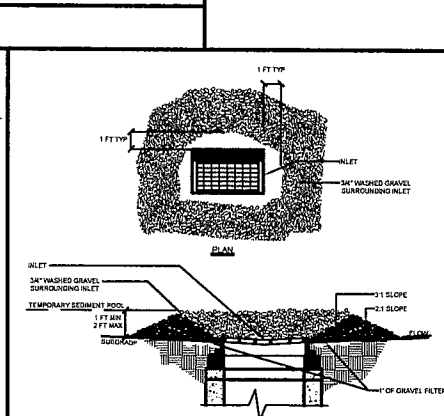
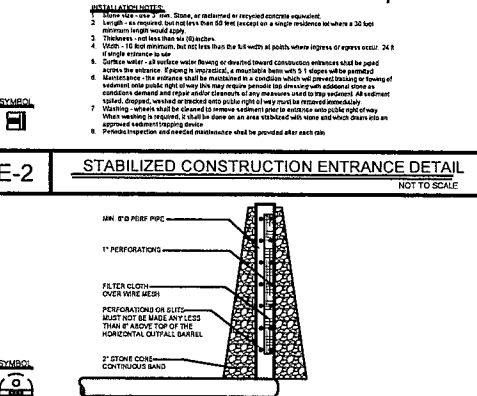
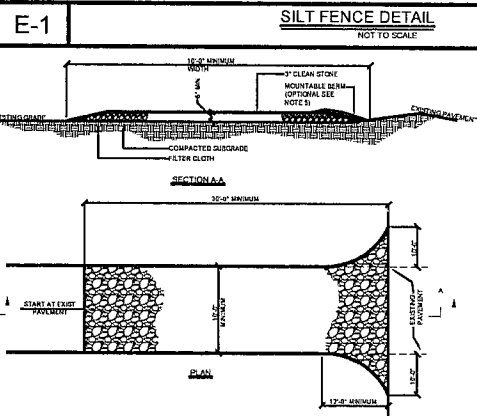
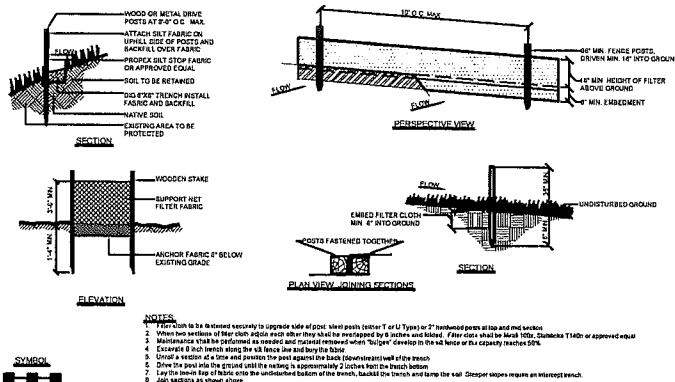
- 1.1 Install erosion control measures.
- 1.2 Scarify compacted soil area.
- 1.3 Lime as required to pH 6.5.
- 1.4 Fertilize with 10-6-4 4 lbs/1,000 S.F.
- 1.5 Incorporate amendments into soil with disc harrow.
2. Seed mixtures for use on wetlands and soil and fill areas.
3. SEEDING
- 3.1 Prepare seed bed by raking to remove stones, twigs, roots and other foreign material.
- 3.2 Apply soil amendments and integrate into soil.
- 3.3 Apply seed uniformly by cyclone seeder or hydro-seeder at rate indicated.
- 3.4 Stabilize seeded areas in drainage swales.
- 3.5 Irrigate to fully saturate soil layer, but not to dislodge planting mix.
- 3.6 Seed between April 1st and May 15th or August 15th and October 15th.
- 3.7 Seeding may occur May 15th and August 15th if adequate irrigation is provided.

TEMPORARY VEGETATIVE COVER:**Site Preparation:**

1. Install erosion control measures.
2. Scarify areas of compacted soil.
3. Fertilize with 10-10-10 at 400/lbs/acre.
4. Lime as required to pH 6.5.

Seed Species:

Mixture	Lbs/Acre	Seeding
1. Rapidly germinating annual ryegrass (or approved equal)	20	Same as permanent vegetative cover
2. Perennial ryegrass	20	
3. Cereal oats	30	



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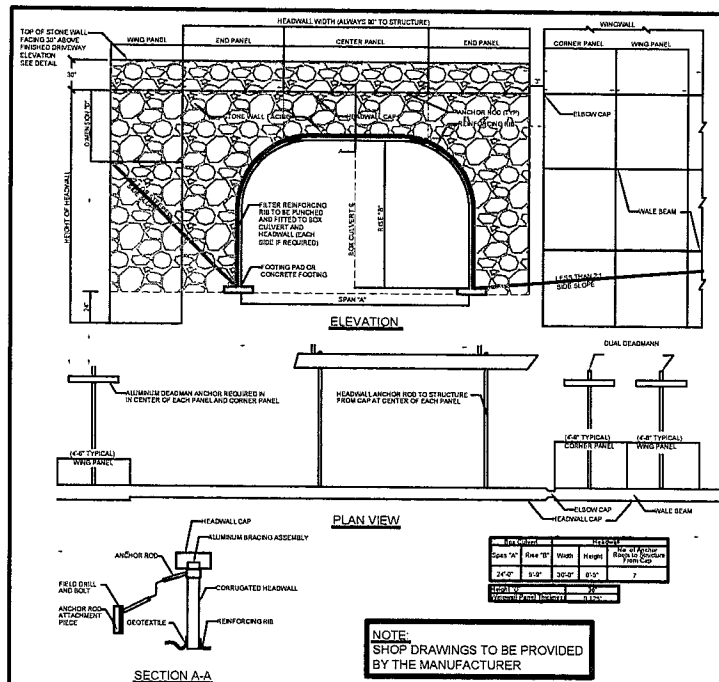
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Revisions:		
No	12356	Comments
1	121102	Bridge
2	121012	Bridge & well
3	121012	Demolish
4	121012	Rein. Superstr.
5	121012	Chamber walls
6	121012	Chamber walls
7	121012	Chamber walls
8	121152	
9	5-014-02	
10	12-011	Spoke a hole in concrete
11	12-011	Demolish bridge

EROSION & SEDIMENT CONTROL DETAILS

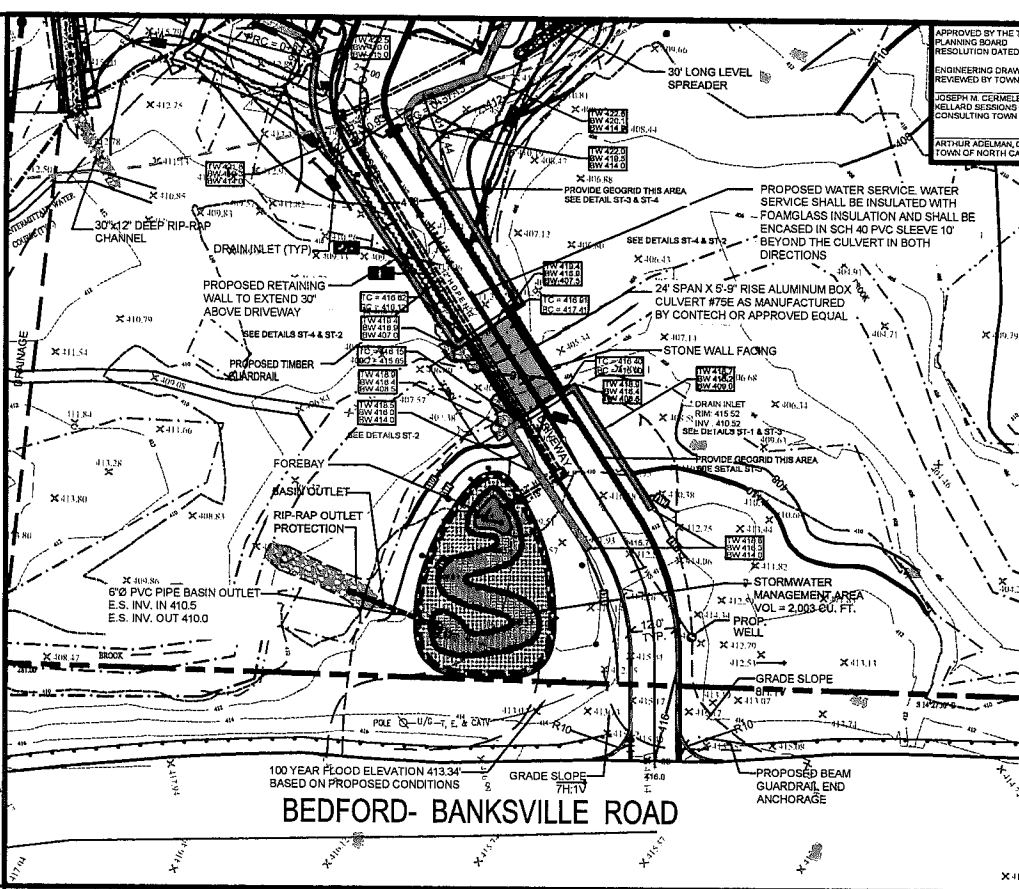
Mr. Giocondo DiPietro
DRAINAGE AND BRIDGE CULVERT PLAN
PREPARED FOR
Town of North Castle, Westchester Co., New York

Sheet 6 of 9

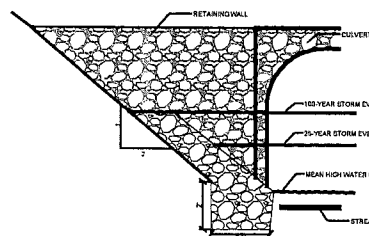
APPLICANT: DIPIETRO, GIOCONDO



- NOTES:**
1. All panels are fabricated from aluminum structural plate as specified in ASTM B 744.
 2. Center panels above the box culvert crown radius are 0.100" thickness for Structures 1-39 and 0.125" for Structures 40-67. End panels are 0.150" thickness.
 3. Height of headwall permits approximately 24" of overburden depth below the invert. All headwall panels must be trench into existing ground. If stable rock foundation is encountered, the panels may be trimmed and placed into a cement-grouted keyway.
 4. Number of corner panels and additional wing panels is optional.
 5. A vertical joint is used only when a wingwall is at an angle with respect to the headwall.
 6. The wingwall is to have a 0° horizontal rotation.
 7. The top of a headwall and its wingwall is always horizontal, unless beveled wingwalls are required. Specify the vertical drop in elevation for the wingwall. This will set the proper vertical angle location for the headwall elbow cap and the proper overall length of the wingwall cap.
 8. Headwall cap must be held drilled and bolted to the headwall panels.
 9. Standard headwalls shown are for vertical orientation only. Any design, other than vertical orientation, must be reviewed by the design engineer.
 10. If side slope is flatter than 2:1 a double setback assembly is required for each deadman.
 11. Standard headwalls are shown. HS 20 wheel loads must be kept a minimum distance of 30' from the wall face. Special headwall packages can be fabricated to meet other loading requirements.
 12. Center of deadman anchor is placed 6" below center of web beam.
 13. The crown rib used to connect the headwall must be oriented so that the flat surface is facing away from the headwall. This maximizes the load carrying capability of the connection shown in Section A-A.
 14. Structures on concrete beddings that use headwalls require field modification of the headwall plates so they fit around the footings. The need to attach the plates to the footings depends on the bedrock material and its potential erodibility.



R-2 HEADWALL DETAIL NOT TO SCALE

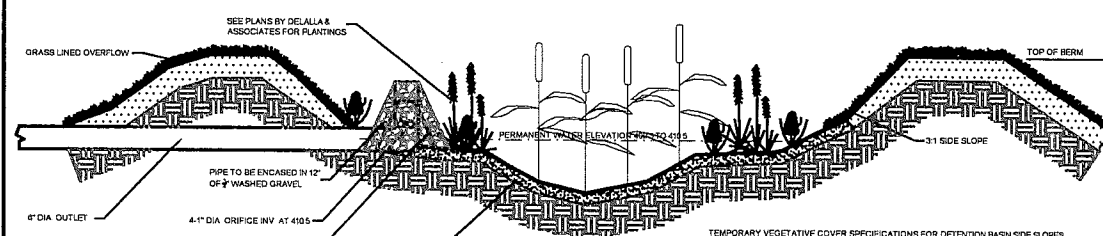


		010	020	030	040
Class	Thickness	Height	Width	Depth	Length
1	12"	3.00	6"	4"	100.00
2	12"	3.00	6"	4"	100.00
3	12"	3.00	6"	4"	100.00
4	12"	3.00	6"	4"	100.00
5	12"	3.00	6"	4"	100.00
6	12"	3.00	6"	4"	100.00
7	12"	3.00	6"	4"	100.00
8	12"	3.00	6"	4"	100.00
9	12"	3.00	6"	4"	100.00
10	12"	3.00	6"	4"	100.00

- CONSTRUCTION SPECIFICATIONS:**
1. Slope shall be graded to 2:1 or flatter prior to placing riprap.
 2. Riprap shall be placed to maintain a uniform gradient. Larger stones shall be placed at the toe.
 3. Ends of the riprap shall be keyed into a stable bank. When tying into other structures, larger riprap can be laid in steps or stacked as needed to fit. Stones larger than those designed for flow shall be used for this purpose.
 4. Remaining disturbed areas shall be graded and permanently seeded and mulched.
 5. Approximately 70 cubic yards of riprap is proposed for within the stream bank.

R-3 RIP-RAP STREAMBANK PROTECTION DETAIL NOT TO SCALE

SW-1 STORMWATER BASIN TYPICAL SECTION NOT TO SCALE



- TEMPORARY VEGETATIVE COVER SPECIFICATIONS FOR DETENTION BASIN SIDE SLOPES**
- NORTH EAST WETLAND GRASS SEED MIX AS SUPPLIED BY SOUTHERN TIER CONSULTING, INC. WEST GARDENVILLE NY (716) 888-8128
- ADONIS STOLONIFUM
POA TRIVIALIS
ALONCULUS ARUNDINACEUS
PANDANUS LANCEOLATUS
- SEEDING MIX GRASS/LEGUME AT 1 LB/500 SQ FT
RHYZOPHORUS
SEASON FERTILIZER
BENTONITE
1. PLANTING OF THE DETENTION BASIN SHOULD BE DONE IMMEDIATELY AFTER COMPLETION OF THE BASIN EXCEPT FOR THE MAJOR BOTTOM. THE MAJOR BOTTOM SHOULD BE PLANTED AFTER THE BASIN IS STABILIZED AND AT THE START OF THE SPRING OR FALL WET SEASON. THERE WILL BE TO ENSURE THE SURVIVAL OF THE PLANTINGS. THE PLANTINGS SHALL BE MONITORED FOR THE FIRST YEAR AND REPLACED AS NECESSARY.
 2. FOR PLANTING DETAILS AND SPECIFICATIONS, REFER PLANS PREPARED BY DELACIA & ASSOCIATES

SW-1

STORMWATER BASIN TYPICAL SECTION NOT TO SCALE

APPROVED BY THE TOWN OF NORTH CASTLE
PLANNING BOARD
RESOLUTION DATED
ENGINEERING DRAWING PLANS
REVIEWED BY TOWN ENGINEER
DATE
JOSEPH M. CERMELE, P.E.
KELLARD SESSIONS CONSULTING P.C.
CONSULTING TOWN ENGINEERS
DATE
ARTHUR AGELOMAN, CHAIRMAN
TOWN OF NORTH CASTLE PLANNING BOARD

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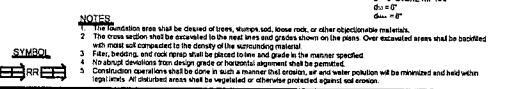
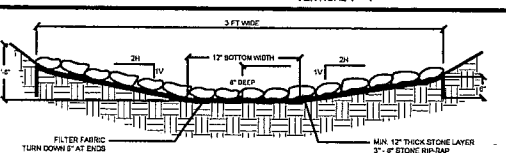
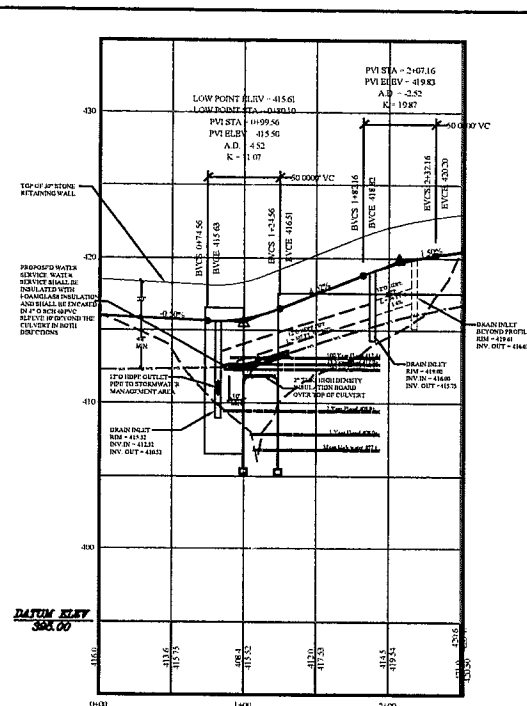
NO.	DATE	REVISION
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7	10/10/15	REVISION
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10	10/10/15	REVISION

IMPROVEMENT DETAILS & PROFILES

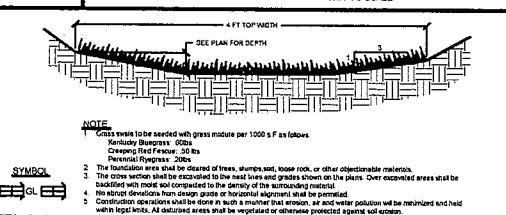
Mr. Giocondo DiPietro
DRAINAGE AND BRIDGE CULVERT PLAN
PREPARED FOR
TOWN OF North Castle
Westchester Co., New York

Sheet 7 of 9

APPLICANT: DIPIETRO, GIOCONDO

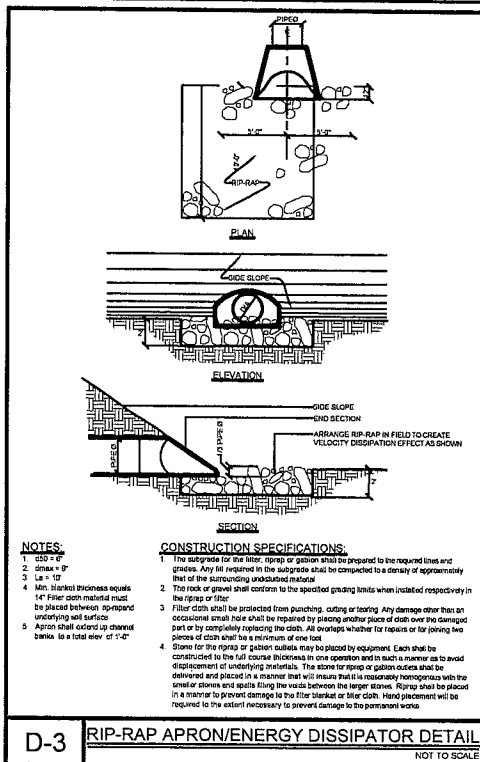


D-1 RIP-RAP SWALE DETAIL NOT TO SCALE

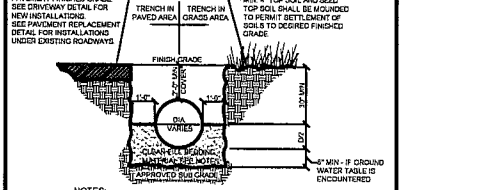


D-2 GRASS SWALE DETAIL NOT TO SCALE

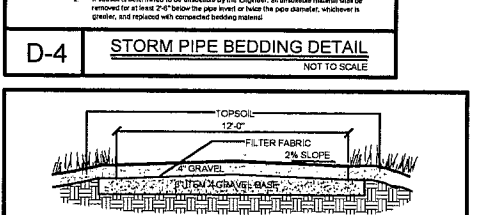
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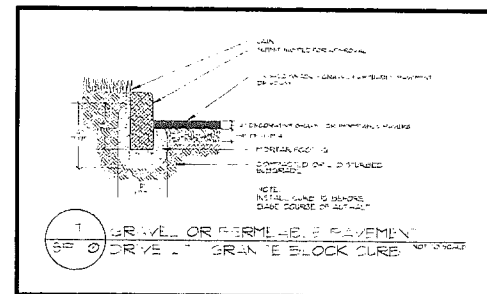
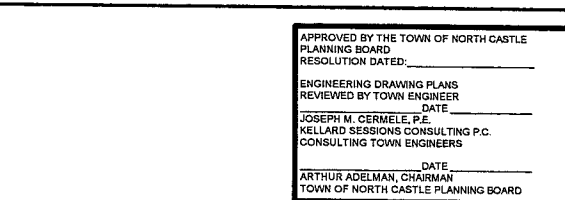
D-3 RIP-RAP APRON/ENERGY DISSIPATOR DETAIL NOT TO SCALE



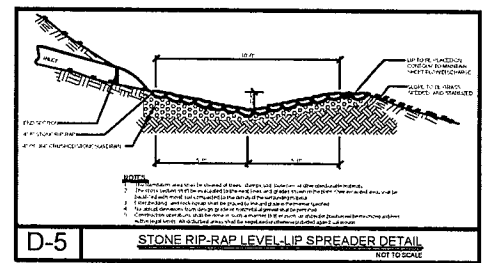
D-4 STORM PIPE BEDDING DETAIL NOT TO SCALE



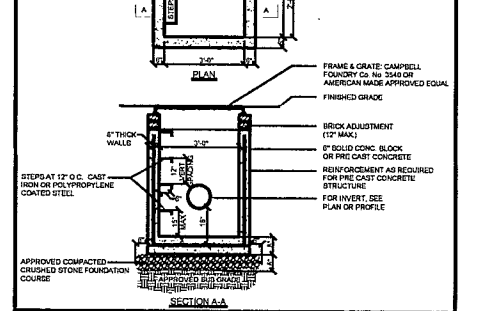
R-1 GRAVEL DRIVEWAY DETAIL NOT TO SCALE



D-5 GRAVEL OR FORMER PAVEMENT DRIVE - GRAVEL BLOCK CURE NOT TO SCALE



D-6 STONE RIP-RAP LEVEL-UP SPREADER DETAIL NOT TO SCALE



D-6 TYPICAL DRAIN INLET (TYPE L) DETAIL NOT TO SCALE

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Improvement Details & Profiles

Drainage and Stormwater Management

Sheet 9 of 9