

Environmental Assessment Neversink Ball Fields Replacement Project

Appendix D

Environmental Evaluation

Town of Neversink Ball Fields

Environmental Evaluation

7752 State Route 42, Grahamsville, NY
Town of Neversink
Sullivan County, New York

Prepared for:
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TABLE OF CONTENTS

1.0	OVERVIEW
1.1	Purpose
1.2	Background
1.3	Site Selection
1.4	Reservoir
1.5	Floodplain Evaluation Process
1.6	Conclusion
2.0	SITE DEVELOPMENT INFORMATION
2.1	Site Preparation and Demolition
2.2	Grading
2.3	Duration
2.4	Building Size
2.5	Vegetation
2.6	Sewer/Water
2.7	Landscaping
2.8	Lighting
2.9	Parking
2.10	Stormwater
2.11	Estimated Construction Costs
3.0	DATA REVIEWED:
3.1	Cultural Resources
3.2	Natural Resources
3.3	Endangered Species
3.4	Site Plans

LIST OF APPENDICES

Appendix A Figures

Figure 1	Site Location Map
Figure 2	USGS Vicinity Map
Figure 3	Town of Neversink Tax Map; Section 32
Figure 4	USDA Soils Map
Figure 5	National Wetlands Map
Figure 6	FEMA Flood Map
Figure 7	Results from NYSDEC Environmental Resource Mapper
Figure 8	Results from OPRHP Historic Preservation Website

Appendix B Documents and Correspondence

- Full Environmental Assessment Form (dated July 31, 2013)
- Letter from NYS OPRHP (dated May 3, 2013)
- Letter from NYSDEC (dated September 25, 2013)
- Estimated Construction Costs
- Site Plans

Appendix C Site Photographs

1.0 OVERVIEW

- 1.1. **PURPOSE:** The purpose of this document is to describe the Town of Neversink's search for a replacement site for its flood-damaged ball fields (i.e. Little League Complex). The key to this search was to find a practicable alternative which avoids rebuilding the ball fields in the current floodplain location or any other floodplain area.
- 1.2. **BACKGROUND:** The Town of Neversink's original baseball fields, which were located along Chestnut Creek on New York State (NYS) Route 55A, were destroyed by Hurricane Irene in 2011. The proposed ball fields site, which is located on the east side NYS Route 42 (at intersection with Big Hollow Road), would replace the Town's flood-damaged Little League Complex. The Town has leased the four damaged ball fields on NYS Route 55A from the New York City Department of Environmental Protection (NYCDEP) since the 1980s. All but one of the fields was destroyed beyond repair when flooding from Hurricane Irene swelled the Chestnut Creek, which, as noted above, runs alongside the fields. The Creek eroded its banks and washed away most of the original Little League Complex. The extensive damage included the loss of fences, dugouts and scorekeeper booths. Some of these same fields and structures were rebuilt after a similar flood in 2002 destroyed them. The Town is determined to find a location that would not be food-damaged again.
- 1.3. **SITE SELECTION:** For the location of the new Little League Complex, the Town of Neversink considered and evaluated any piece of vacant land within the Town that consisted of a 20 percent or less slope grade and could accommodate four baseball fields. The evaluation process took approximately two months. The Town found an area suitable for the development of new ball fields on land purchased from a private land owner. This 16.7 total acreage consists of several benefits including frontage on a NYS highway, municipal sewer availability, a drilled water supply well, open fields (without of shrubs or forested land), and a central location for community access.
- 1.4. **RESERVOIR:** The proposed site is approximately 3,300 feet upstream of Chestnut Creek and 7,500 feet upstream of Rondout Reservoir, which is part of the NYCDEP Aqueduct System for New York City. The proposed location is significantly distant from the Creek and the drinking water Reservoir. The NYCDEP operates and maintains a drinking water reservoir system (including the downstream Rondout Reservoir) for the City of New York and owns extensive lands in the Town of Neversink as well as in surrounding Towns. The purpose of the land ownership is to prevent or minimize development to protect the reservoirs from surface water and groundwater pollutants.
- 1.5. **FLOODPLAIN EVALUATION PROCESS:** Executive Order #11988 "Floodplain Management" requires that Federal agencies avoid funding activities that directly or indirectly support occupancy, modification, or development of the 100-year floodplain (BFE) whenever there are practicable alternatives. Critical Federal actions within the 100-year

floodplain or within 500-year floodplain require that Federal agency to conduct the Federal Emergency Management Agency's (FEMA) Eight-Step Decision-Making Process.

As the attached documents will show, the proposed site is not located in or near any flood hazard areas. Therefore, because the Town avoided land that contains any portion the 100-year floodplain or the 500-year floodplain within the site, there is no need to conduct FEMA's Eight-Step Decision-Making Process. See Appendix A, Figures, for documentation.

- 1.6. **CONCLUSION:** The Town of Neversink site evaluation process concluded that a practicable alternative to repairing the flood-damaged Little League Complex exists for development of new ball fields. The Town found a suitable area on 16+ acres of land located within the Town. Since the buildable portion of proposed site does not lie in or near any floodplain, and has adequate land for at least four new ball fields plus associated parking and recreation buildings, it is an practicable alternative to rebuilding on the old flood-prone location.

2.0 SITE DEVELOPMENT INFORMATION

- 2.1 **SITE PREPARATION AND DEMOLITION:** The 16.7 acre site is vacant fields, except for the one acre house lot that was included in the Town's purchase. This lot is situated directly across from the intersection of NYS Route 42 and Big Hollow Road. The house located on this lot was demolished and removed on August 31, 2013 by private contractor after Town bid process. One building, the garage, currently remains and will be used as storage for the new ball field complex. There are no other buildings on the site. Approximately 14.2 acres of the total 16.7 acres would be disturbed as a result of the new Little League Complex construction.
- 2.2 **GRADING:** The site is generally level but there are mounds and valleys that would need to be cut and filled to create four baseball fields with the associated parking areas and driveways. Maximum cut at center of site and maximum fill depth at northerly side of site are both approximately 14 feet to 15 feet. Each of the four proposed ball fields would have its own dugout, bleachers, backstop, scorer's booth and fences.
- 2.3 **DURATION:** The estimated construction period is five months. The Town is interested in having at least two ball fields operating by the spring of 2014.
- 2.4 **BUILDING SIZE:** Proposed buildings on site total 4,136 square feet (SF) and include the following: 28' x 74' Picnic Pavilion (with bathrooms), 24' x 36' Maintenance Garage, 20' x 20' Storage Building, and a 20' x 40' barn. A 480 SF existing garage located on the one acre house lot will remain and be used as storage for the proposed project.

- 2.5 VEGETATION: The proposed project site is open farm field except for the house lot, which includes a few specimen trees. There is a treeline off-site to the north, east and south of the proposed site along Red Brook. However, no off-site disturbances are proposed.
- 2.6 SEWER/WATER: There is an existing eight inch diameter sanitary sewer line running along the west edge of NYS Route 42. Wastewater from the proposed project would be pumped to that sewer main, which would convey to the NYC Wastewater Treatment Plant in Grahamsville. That treatment plant discharges into Chestnut Creek which ultimately flows into Rondout Reservoir. The estimated wastewater produced by ball fields would be 500 gallons per day (gpd) when fields are in use. The eight inch sewer main and the wastewater treatment plant have sufficient capacity to handle this additional flow.
- There is an existing water supply well on the one acre house lot that would be sufficient for the water needs of the proposed ball fields.
- 2.7 LANDSCAPING: No landscaping, except for the planting of grass, is proposed at this time. However, a four to five foot chain-link fence would be constructed around each of the four baseball fields proposed.
- 2.8 LIGHTING: For public safety reasons, three to four wall mounted lights are proposed for the pavilion exterior walls and four to five pole lights are proposed within the parking areas. All lights would be downward facing luminaires. The ball fields themselves would not be lighted. Night games would not be played at this proposed location.
- 2.9 PARKING: Parking for 102 cars would be located near the center of the site in order to serve all four fields. Access to this parking lot would be from a proposed 24 foot wide access road connected to NYS Route 42. There is a northern 20-car parking lot also proposed but may not be built due to limited site distance at the exit onto NYS Route 42.
- 2.10 STORMWATER: During and after construction, stormwater on the site would be controlled and managed to prevent a turbid discharge off the site. The design of the stormwater system would meet all the requirements of the NYS Stormwater SPDES General Permit for Construction Activities.
- 2.11 ESTIMATED CONSTRUCTION COSTS: Construction details of the proposed Little League Complex include the following: soil excavation and fill, gravel surfaced access driveway, gravel surfaced parking lot, baseball backstops and fencing, concession building, sewage pumpstation and sewer forcemain, security lighting, signage, stormwater management (infiltration trenches, catchbasins and bioretention beds). Refer to Appendix B, Estimated Construction Costs, for the complete list of construction details. The total cost of these construction activities is estimated at \$950,000.

3.0 DATA REVIEWED:

- 3.1 CULTURAL RESOURCES: New York State Office of Parks, Recreation and Historic Preservation (OPRHP) is the NYS agency with the primary responsibility for identifying, cataloguing, and protecting Historic and Archaeological sites (aka cultural resources). OPRHP was consulted about the conversion of the proposed site to ball fields. Based on their review, OPRHP concluded that the *“project will have No Effect upon cultural resources in or eligible for inclusion in the National Registers of Historic Places.”* Please refer Appendix B of this document for the letter from OPRHP dated May 3, 2013.
- 3.2 NATURAL RESOURCES: The New York State Department of Environmental Conservation (NYSDEC) is responsible for identifying, cataloguing and protecting streams, wetlands and endangered species. Wetland and Streams: NYSDEC operates an on-line search tool (the Environmental Resource Mapper) that identifies such resources on sites around New York State. The search results of the proposed project site concluded that there is a Class B(ts) stream located adjacent to site. The “B” in this classification indicates that the highest and best use for this stream is fishing and possibly bathing. The “ts” indicates that this stream has the potential to support trout spawning. Trout spawning streams are some of the highest quality streams in the State. However, the proposed project would not disturb the bed or banks of this adjacent, but off-site stream. There are no wetlands located on the project site.
- 3.3 ENDANGERED SPECIES: Bald Eagles: The NYSDEC’s online Environmental Resource Mapper search results also indicated that the proposed ball field site is at the edge of a 1+ mile circle surrounding the endangered Bald Eagle habitat. The NYSDEC requires an on-site review of each site within such a circle to determine whether a site contains bald eagles and/or their habitat. Refer to Appendix A, Figure 7 for the search results from NYSDEC Environmental Resource Mapper.
- On September 11, 2013, a request was made to the NYS Department of Environmental Conservation (NYSDEC) to start the on-site review of the proposed site. In a letter dated September 25, 2013, the NYSDEC responded that there were no bald eagles or bald eagle habitat on or adjacent to the site. Please refer to Appendix B of this document for a copy of that letter from NYSDEC.
- 3.4 SITE PLANS: Attached are a set of plan sheets depicting the site preparation and site design of the proposed ball field site. The plan sheets are numbered 1 through 9. Please note that Sheet #2 has been deleted because it was essentially a duplicate of Sheet 1. These plans show the elevation changes needed to cut, fill and grade the site in preparation for the ball fields. The plans also show the construction of four ball fields, associated parking, fencing, driveways and several small buildings.

Appendix A

Figures

Figure 1	Site Location Map
Figure 2	USGS Vicinity Map
Figure 3	Town of Neversink Tax Map; Section 32
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Figure 6	FEMA Flood Map
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Figure 8	Search Results from OPRHP's Historic Preservation Website

Please see Appendix A of this EA to view maps and figures listed on the previous page.

Appendix B

Documents & Correspondence

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Please see Appendix B of this EA to view SEQRA documents listed on the previous page.

Please see Appendix C of this EA to view letters listed on the previous page.

Please see Appendix A of this EA to view siteplan listed on the previous page.

A. Stormwater Basin (NYSDOT Section 5.13)

A vegetated swale is an open, vegetated channel or depression specifically designed to detain and promote the infiltration of stormwater runoff into the underlying soils. The amount of runoff reduction is dependent to the underlying soils. For systems in hydraulic soil groups A and B, a reduction value of 20% may be used. C and D soils are allowed a 15% reduction unless the soil is modified. For modified C soils, a 10% reduction is allowed. For modified D soils, a 12% reduction is allowed.

Landscaping
Landscaping of the swale will involve grass seeding and mulching in compliance with the standards outlined on the erosion and sediment control plan for this site.

Check Data
Where swale slopes are greater than 4% or where additional detention is desired, stone check dams can be installed to slow down the flow and provide detention. This will also allow for greater infiltration and treatment.

Maintenance of Vegetated Swales
Maintenance shall be the responsibility of the owner. Sediment build-up within the bottom of the channel shall be removed when sediment depth reaches 6 inches. Vegetation should be mowed as required during the growing season to maintain grass heights between 4 and 6 inches.

Full Inspections shall take place yearly. Full inspections involve checking for sediment, erosion, poor vegetation growth and excessive ponding. If a report is necessary, it shall be initiated in a timely fashion. Remove sediment build up associated with dry check dams.

B. Stormwater Filter Strip (NYSDOT Section 5.13)

Vegetated filter strips and undisturbed natural areas are used to treat and control runoff. Vegetated filter strips are often maintained grass buffers between impervious areas and natural areas.

Landscaping
Good grass or plant cover chosen for the soil and sun exposure. Natural cover is also acceptable.

Maintenance
Bare patches and dead plants should be reseed or replaced as soon as possible. Area of erosion should be repaired when discovered. The ribs or channels form, methods of spreading the refuse to sheet flow should be installed.

C. Stormwater Trench and Basin (NYSDOT Section 5.14)

Stormwater system captures and stores the water quality volume for infiltration into the subsoil. Specified as a standard practice in Chapters 5 and 6 of the Green/Runoff Reduction method in Chapter 4.

This practice can be a shallow basin (Infiltration Basin) or an excavated trench (Infiltration Trench). The basin has a vegetation cover over the underlying receiving soil. Shallow excavation of a basin allows for the storage of the design volume. The excavated trench is filled with aggregate, geotextile, stone, gravel, sand, or other infiltration material. Runoff Reduction Capacity for this practice is 100%.

Landscaping
The cover for the infiltration basin is grass. The grass shall be suitable for conditions that vary from occasional inundation to wet dry conditions.

Maintenance of Infiltration Practices
Maintenance shall be the responsibility of the owner. Treatment area plants and components should be repaired or replaced when needed. The vegetation shall be mowed to maintain a height between 4 and 6 inches. Sediment shall be removed before it reaches 1 inch deep and each spring. Debris shall be removed as it accumulates. The filtration material over the trench shall be cleaned or replaced as needed or replaced if necessary.

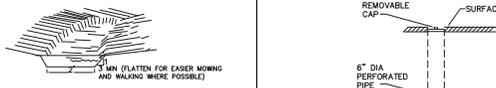
Full Inspections shall take place yearly. Full inspections involve checking all components of the infiltration practices thoroughly. If a report is necessary, it shall be initiated in a timely fashion.

D. Roofing Disconnection (NYSDOT Section 5.13)

Disconnecting rooftops is allowing the runoff from roofs to flow overland to a filtration or infiltration area. This allows for the initial treatment prior to the practice and slows down the runoff rate.

E. Soil Restoration (NYSDOT Section 5.14)

Soil Restoration is required where soils have been disturbed and will be vegetated. For this project, the majority of the heavy traffic disturbance will be areas that will be sealing or parking areas. Sealing or parking areas will be covered with vegetated areas. The common practice in preparing an area for landscape is to loosen the soil and apply topsoil. The native soil is disturbed and removed and replaced with imported soil. The need for full soil restoration is not warranted for the disturbed, proposed vegetated area. If excessive compaction occurs during construction, mitigation including but not limited to deep tilling and de-compaction as outlined in the NYSDOT Stormwater Manual, Section 5.18, may be ordered by the site engineer.



CONSTRUCTION SPECIFICATIONS

- ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE WATERWAY.
- THE WATERWAY SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE OTHER SPECIFIED DESIGN, AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPED NORMAL FLOW.
- FILLS SHALL BE COMPACTED AS NEEDED TO PREVENT UNEQUAL SETTLEMENT THAT WOULD CAUSE DAMAGE TO THE COMPLETE WATERWAY.
- ALL EARTH REMOVED AND NOT NEEDED IN CONSTRUCTION SHALL BE SPREAD OR DISPOSED OF SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE WATERWAY.
- STABILIZATION SHALL BE DONE ACCORDING TO THE APPROPRIATE STANDARD AND SPECIFICATIONS FOR VEGETATIVE PRACTICES.
- A. FOR DESIGN VELOCITIES OF LESS THAN 3.5 FT. PER SEC., SEEDING AND MULCHING MAY BE USED FOR THE ESTABLISHMENT OF THE VEGETATION. IT IS RECOMMENDED THAT, WHEN CONDITIONS PERMIT, TEMPORARY WATERWAYS OR OTHER MEANS SHOULD BE USED TO PREVENT WATER FROM ENTERING THE WATERWAY DURING THE ESTABLISHMENT OF THE VEGETATION.
- B. FOR DESIGN VELOCITIES OF MORE THAN 3.5 FT. PER SEC., THE WATERWAY SHALL BE STABILIZED WITH SOIL WITH SEEDING PROTECTED BY JUTE OR EXPOSURE MATTING OR WITH SEEDING AND MULCHING FOLLOWING TEMPORARY DIVERSION OF THE WATER UNTIL THE VEGETATION IS ESTABLISHED.
- PERMANENT GRASS MIXTURE AS SPECIFIED SHALL BE USED IN GRASS SWALES.

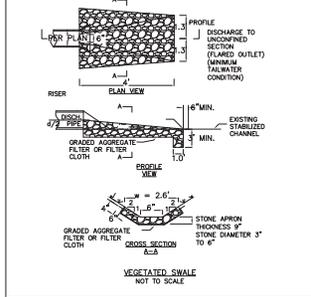
VEGETATED SWALE
NOT TO SCALE

SEEDING AND MULCHING: SUNNY ATHLETIC FIELDS

ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED FOR MORE THAN 21 DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE SEEDING AND MULCHING. DISTURBED AREAS SHALL BE LIMITED AND COVER WITH A LAYER OF TOPSOIL PRIOR TO SEEDING. SEEDING WILL BE NEEDED FOR BARE SPOTS, WASH OUTS, AND HEALTHY GROWTH. IF REQUIRED ADDITIONAL SEEDING SHALL BE PERFORMED. THE SEED MIX SPECIFIED FOR THIS SITE IS FROM THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, TABLE 3.2 (SITE CHOICE 1A) WHICH IS AS FOLLOWS:

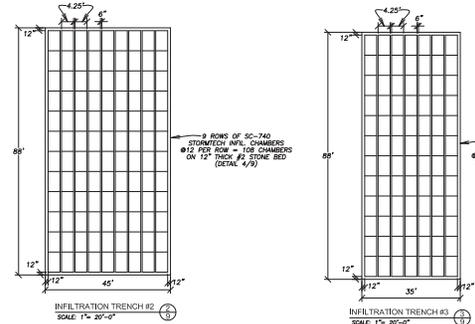
Species (% by weight)	Min./No. Seed	Max./No. Seed
50% perennial ryegrass	1.5 - 2.0	60 - 87
50% Kentucky bluegrass blend	1.5 - 2.0	60 - 87
	50 - 60	50 - 75

IF SEED MIXTURE IS SPECIFIED ON LANDSCAPE OR ATHLETIC FIELD PLANS, USE THAT SEED MIXTURE INSTEAD.

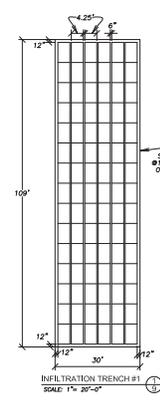
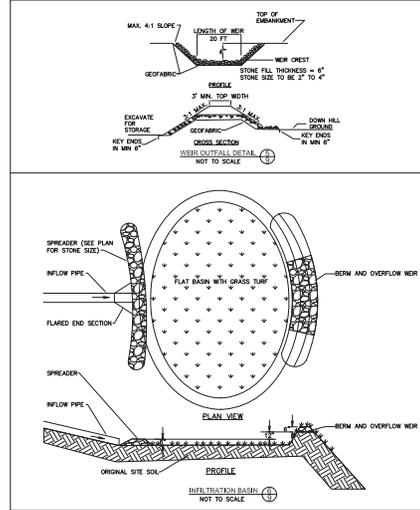


STORMWATER MANAGEMENT DETAILS 7/9

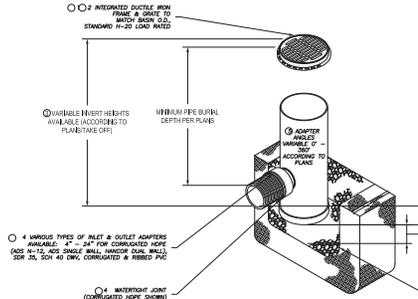
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INFILTRATION TRENCH LAYOUT PLANS



NYLOPLAST 24" DRAIN BASIN: 2824AG - X

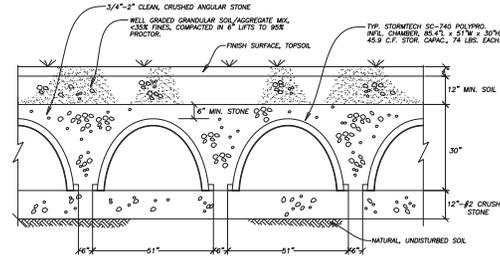


- GRATES/GRID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS.
- BASE SHALL BE 1.5" MIN. COMPACTED SAND OR 6" MIN. TO SUPPORT RESTRICTIONS.
- SEE DRAWING NO. 7001-110-008.
- DRAINAGE CONNECTIONS SHALL CONFORM TO ASTM A532.
- FOR COMPACTED HOPE (ACS) & SAND/GRASS DUAL WALL & 6" MIN. 35 PVC ADAPTERS CAN BE ORDERED ON ANY ANGLE OF 30 DEG. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-013.

DATE	BY	SCALE	INSET	TITLE
08/27/13	AK	1/4"	1	24" WIDEN BASIN QUICK SPEC INSTALLATION DETAIL
08/27/13	AK	1/4"	1	24" WIDEN BASIN QUICK SPEC INSTALLATION DETAIL

OUTLET RISER DETAIL 8/9

N. T. S.



TYP. SECTION - INFILTRATION TRENCH WITH CHAMBERS 4/9

SCALE: 1/2" = 1'-0"

REV.	DR.	CK.	DATE	DESCRIPTION

GLENN L. SMITH
CONSULTING ENGINEER, P.C.
P.O. BOX 156 - MONTICELLO - NEW YORK - 12701
PH. (845) 796-2216

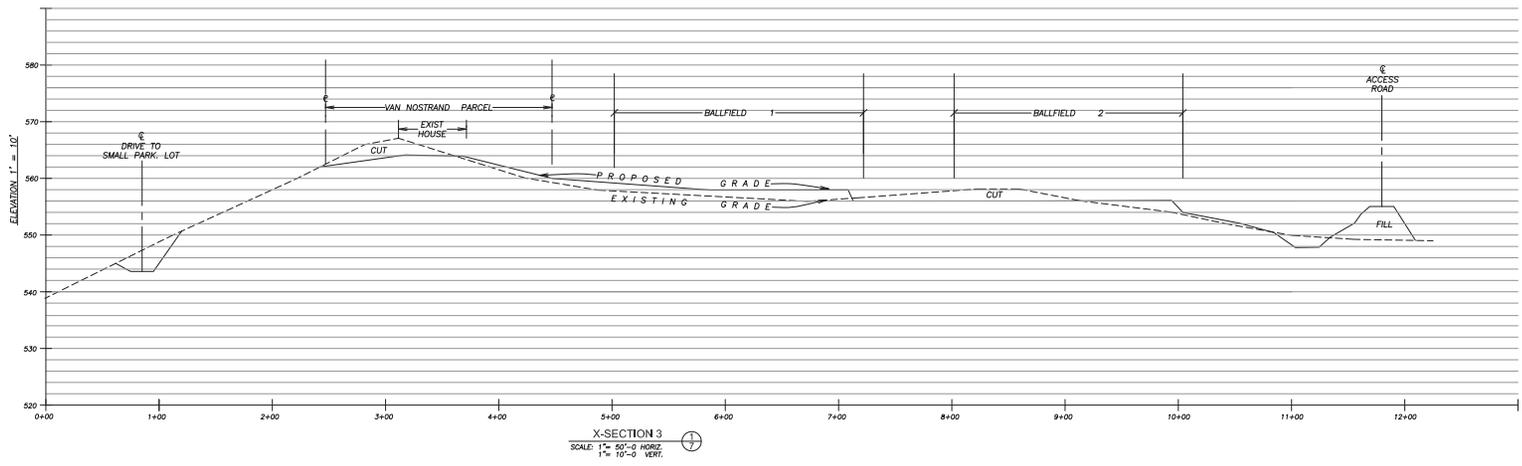
STORMWATER DETAILS

TOWN OF NEVERSINK
N.Y.S. ROUTE 42
(T) NEVERSINK * SULLIVAN COUNTY * NEW YORK

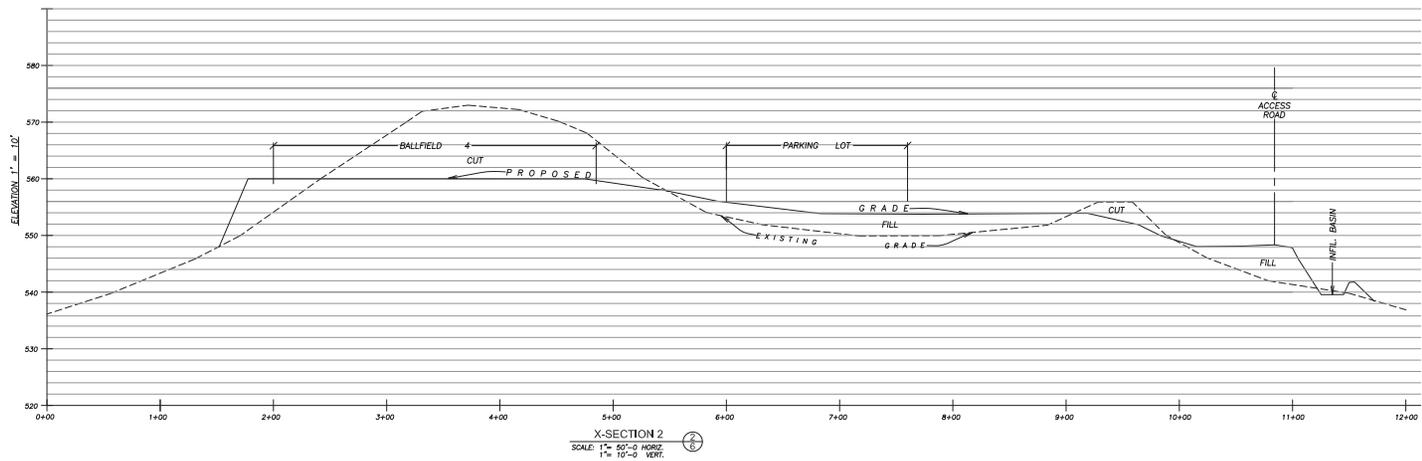
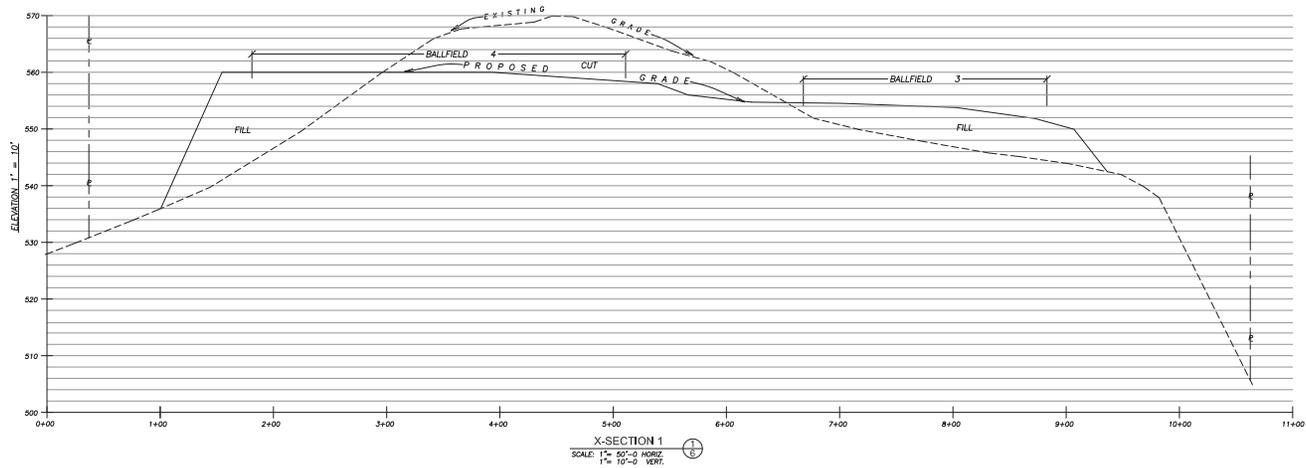
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SHEET NO. 9 OF SHEETS

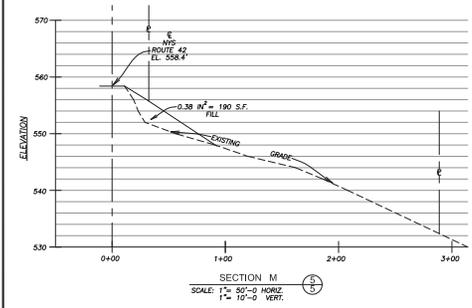
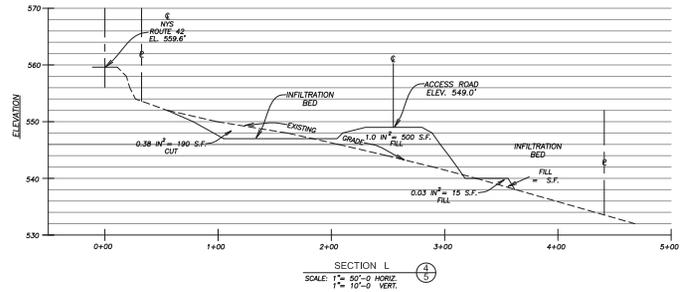
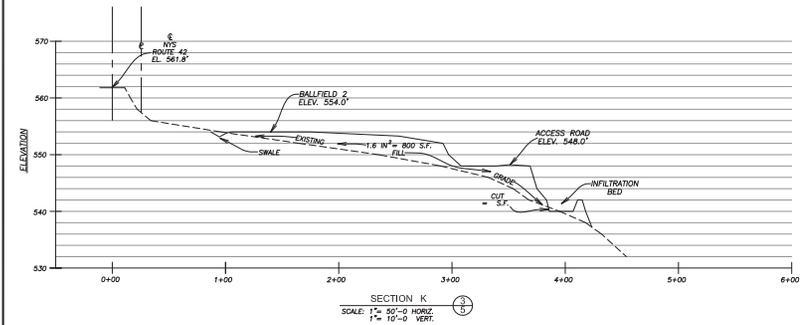
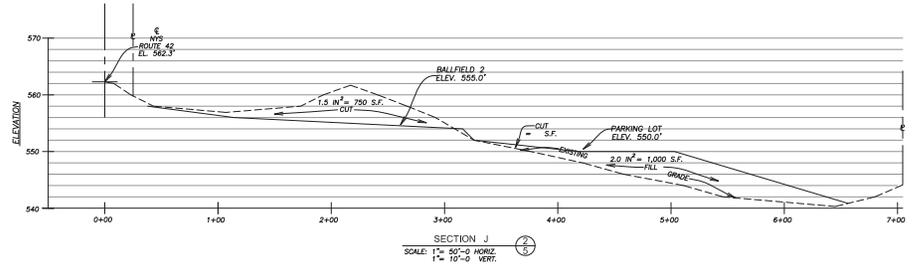
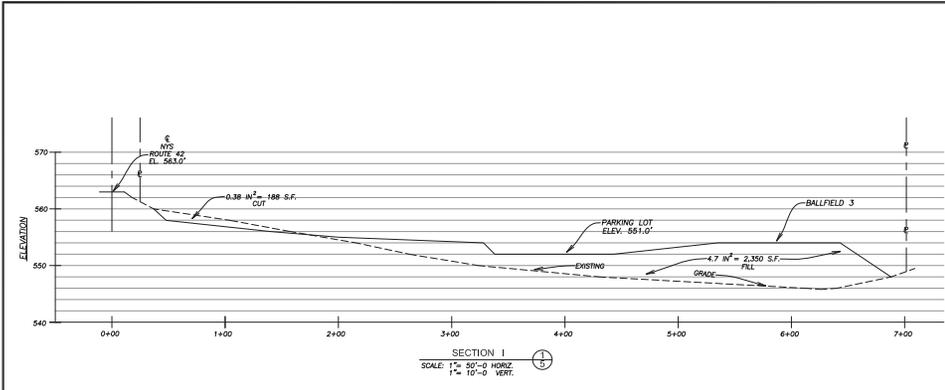
JOB NO. 11-028



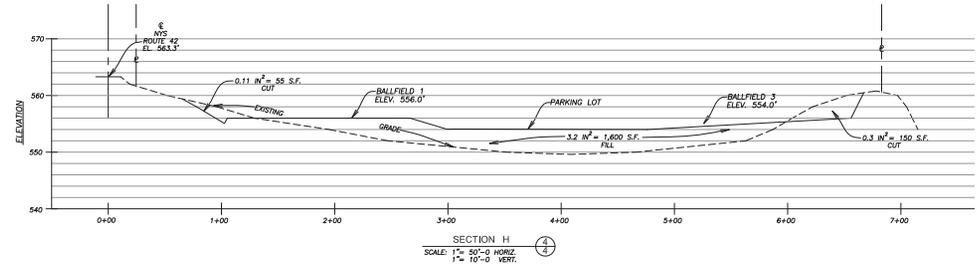
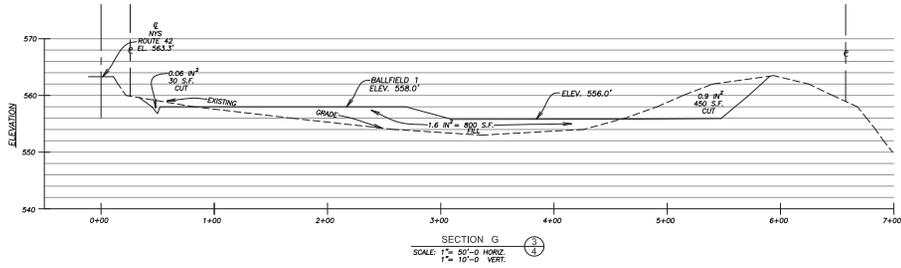
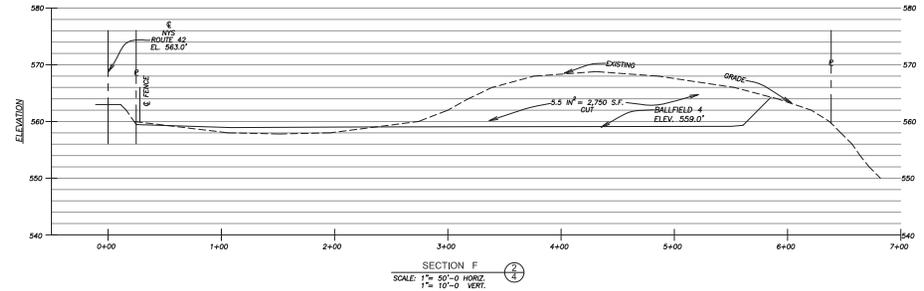
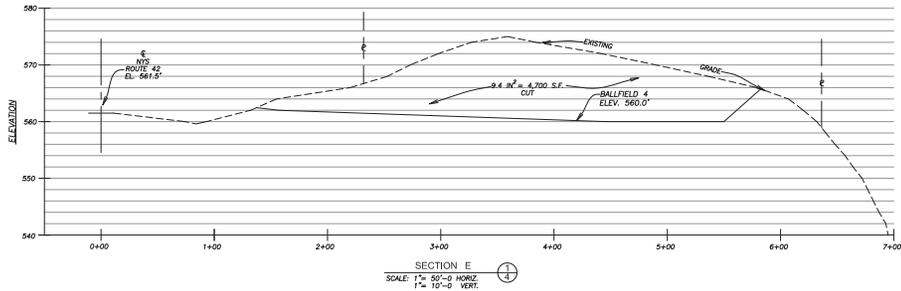
REV.	DR.	CK.	DATE	DESCRIPTION
GLENN L. SMITH CONSULTING ENGINEER, P.C. P.O. BOX 156 - MONTICELLO - NEW YORK - 12701 PH. (845) 796-2216				
BALLFIELDS SECTION PROFILES				
TOWN OF NEVERSINK N.Y.S. ROUTE 42 (T) NEVERSINK * SULLIVAN COUNTY * NEW YORK				
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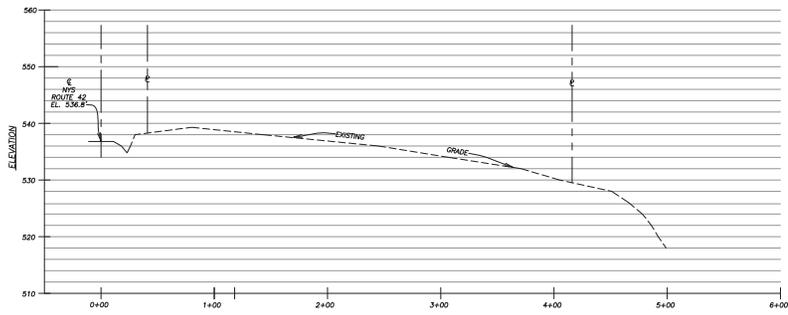
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BALLFIELDS SECTION PROFILES				
TOWN OF NEVERSINK N.Y.S. ROUTE 42 (T) NEVERSINK * SULLIVAN COUNTY * NEW YORK				
DATE			JULY 15, 2013	SHEET NO.
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SCALE			AS SHOWN	
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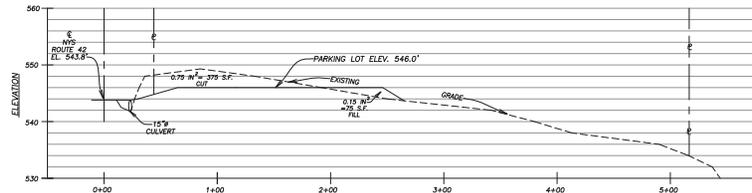
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TOWN OF NEVERSINK N.Y.S. ROUTE 42 (T) NEVERSINK * SULLIVAN COUNTY * NEW YORK				
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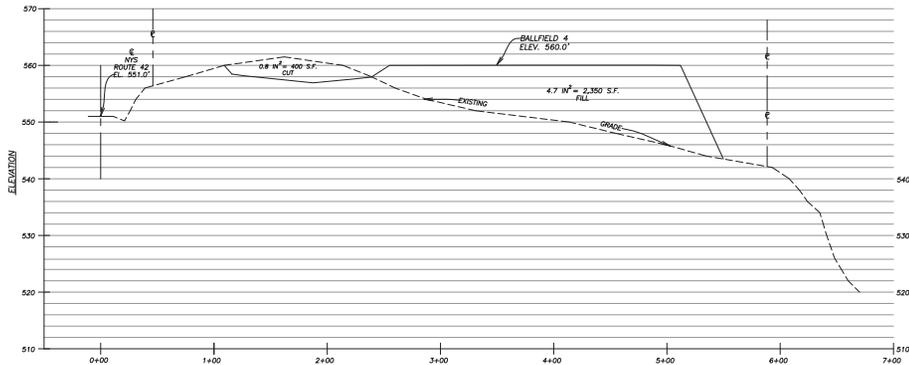
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BALLFIELDS SECTION PROFILES				
TOWN OF NEVERSINK N.Y.S. ROUTE 42				
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SCALE AS SHOWN				
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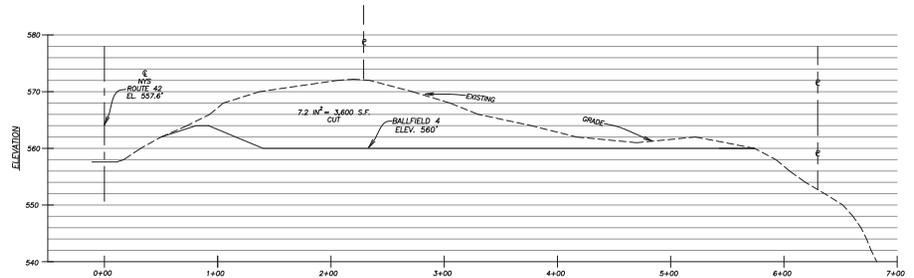
SECTION A
SCALE: 1" = 50'-0" HORIZ.
1" = 10'-0" VERT.



SECTION B
SCALE: 1" = 50'-0" HORIZ.
1" = 10'-0" VERT.



SECTION C
SCALE: 1" = 50'-0" HORIZ.
1" = 10'-0" VERT.



SECTION D
SCALE: 1" = 50'-0" HORIZ.
1" = 10'-0" VERT.

REV.	DR.	CK.	DATE	DESCRIPTION
GLENN L. SMITH CONSULTING ENGINEER, P.C. P.O. BOX 156 - MONTICELLO - NEW YORK - 12701 PH. (845) 796-2216				
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Appendix C

Site Photographs



Looking North at House on One-Acre Lot before Demolition



Looking South at House on One-Acre Lot before Demolition



Garage on One-Acre Lot



Shed on One-Acre Lot



Looking South Across the Site



Looking North Across the Site