HydroEnvironmental SOLUTIONS, INC.

January 15, 2019

Mr. Chris Murphy
Mr. Sean Murphy
East Coast North Properties LLC
416 Waverly Avenue
Mamaroneck, New York 10538

RE: Scope of Work for Proposed Foundation Excavation
416 Waverly Avenue
Mamaroneck, New York

Dear Messrs. Murphy:

In accordance with the New York State Department of Environmental Conservation (NYSDEC) Regulations pertaining to construction on environmentally impacted sites, HydroEnvironmental Solutions, Inc. (HES) has compiled the following Scope of Work detailing the methods and approach for excavation and removal of soils from the proposed building footprint that will be implemented at the subject Site (**Figure 1**). This Scope of Work is submitted for review and approval by the Village of Mamaroneck (VOM) Zoning Board of Appeals (ZBA) and will be adhered to if petroleum hydrocarbon impacted or other constituents of concern impacted soil is encountered during foundation excavation activities at the subject site. If impacted soils are not encountered, then this Excavation Work Plan (EWP) will not be required, only standard construction practices will need to be followed.

Work will not proceed without an approved permit in accordance with the Village of Mamaroneck's Building Code pertaining to the Site. It should be noted that this Scope of Work is specific to the Site excavation proposed on the attached Drawings for the proposed building expansion, (provided by the property owner and attached hereto {**Appendix 1**}, Drawings C-1 through C-7 and Foundation Detail {by BETCO}) as described herein.

Environmental Work in Support of the Proposed Foundation Excavation

The environmental work proposed in this Scope will comply with NYSDEC-Technical Guidance Document DER-10, Part 375 Regulations for conducting cleanups and the recommendations and technical approach discussed and included therein.

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All work outlined in this document, Excavation Work Plan, is to be performed during the excavation of the foundation and will be conducted in accordance with a Village approved work scope unless otherwise stated in this document. A Site-Specific Health and Safety Plan (HASP), the Earthwork contractor's HASP, OSHA HAZWOPER training certifications and documentation, a Quality Assurance Project Plan (QAPP) and a Community Air Monitoring Plan (CAMP) will be implemented during this work as required (i.e.: if contaminated soil is encountered). In accordance with DER-10, a CAMP will be implemented to monitor air quality during all on-Site intrusive work and soil moving, loading, truck cleaning, backfilling, and stockpiling activities associated with the proposed foundation excavation in contaminated areas only. The "Work Area", which is defined as a 20-30 foot area measured from the sidewalls of the excavations (where possible, depending on the property fence line location relative to the excavation area), will be monitored continuously during excavation activities by an on-Site geologist/environmental scientist using: (1) a calibrated four gas meter (%LEL, %O_2, H_2S and CO); (2) photoionization detector (PID), both of which will be immediately adjacent to the excavation edge while the work is ongoing; and (3) a total of three CAMP monitors, two of which will be placed downwind and one upwind of the Work Area. Water and polyethylene sheeting (6 millimeter) will be available on-Site should dust and/or VOC/odor control become necessary during this work.

All field work will be conducted in accordance with the requirements of the HASPs and all soil samples will be collected in accordance with the requirements of the QAPP. Prior to or at the start of this work, soil erosion and sediment controls and Site fencing/signage will be installed along the Site perimeter in accordance with the approved Site-wide Storm Water Pollution Prevention Plan (SWPPP). In the event that soil stockpiling is necessary, stockpile staging areas will be constructed prior to the start of excavation activities. Areas of the Site disturbed during the excavation work will be covered as necessary to control odors or fugitive dusts. Covers will be maintained in accordance with the SWPPP.

Excavation Work Plan – Proposed Foundation

The Excavation Work Plan (EWP) outlined herein will be followed during all excavation activities. Although no soil has been analytically pre-characterized before excavation, soil will be screened in accordance with industry accepted practices. The New York One Call procedures will be completed by the excavation contractor prior to excavation startup. Documentation of the proposed excavation activities will include, but not be limited to, photographs of the work area and activities; soil excavation logs; disposal records for soils and materials excavated and removed from the Site; an accounting of daily activities and personnel on and off-Site; end-point sample data from all impacted excavation areas; and air monitoring logs from the excavation Work Areas in addition to the CAMP data. Additionally, the dimensions, depth, and location of the excavation upon completion will be surveyed and documented, as well as the location of all end-point samples as this will be required by the NYSDEC. This information will be provided to the NYSDEC and the Village in a written technical report; however, a summary of the work will be provided to the Village.

It should be noted that the general practices will be enhanced for excavation close to property lines. The excavation, along with continuous work area monitoring at the sides of excavation areas, will start in areas furthest away from the property line (and effectively work towards the property line, keeping pace with observations and field monitors during all work). A temporary fence will be deployed and maintained to preserve a minimum of 20-foot clearance around the excavation limits during the excavation of impacted soils only within 20 feet of the property boundary. This may include cordoning off a portion of the right of way on Waverly Avenue (i.e.: parking spaces). Proper permits, if required, will be obtained from the Village as required. All approved CAMP and Work Zone monitoring will be strictly adhered to during all intrusive on-Site work in impacted areas only.

Excavation of the foundation may encounter bedrock surfaces. During construction, the contractor and construction manager will adhere to safe work practices to ensure safe slope stability. The construction manager and contractor do not expect the depth of the excavation to create a condition where the excavation construction will impose on the property boundary or require shoring to maintain safety guidelines for slope stability outlined in the trenching and excavation requirements of OSHA 29 CFR 1926.651 and 1926.652. Should the contractor and construction manager determine that the excavation does not meet these safety standards noted above then they will provide necessary action to maintain slope stability and will implement stepped grading or sheet piles to meet such requirements.

Only NYSDEC and Village pre-approved off-site fill will be used to backfill the excavation(s) from grade to depth of the foundation footings.

Stockpiling

Stockpiling of soil from the excavation is not anticipated as current plans are to direct load during excavation. However, stockpiling may be utilized under the following conditions if necessary. Stockpiling on-Site soil/fill with no evidence of contamination (i.e., no staining or elevated PID measurements) may take place in approved areas in approximately 50 cubic yard piles, until removed from the Site or used for backfill. If stockpiling is to take place, stockpiles will be placed, graded, shaped, and covered for proper drainage. Soil materials shall be located and retained away from the edge of excavations.

Stockpiling of on-Site soil/fill with evidence of contamination (staining and/or elevated PID measurements) may take place in approved areas in approximately 50 cubic yard piles, until sample analysis is completed. Stockpiles will be placed, graded, shaped, and covered for proper drainage. This will ensure effective weather proofing of potentially contaminated soil stockpiles. Materials shall be located and retained away from edge of excavations.

Stockpiles will be kept covered at all times with appropriately anchored polyethylene sheeting or tarps. All stockpiles will be routinely inspected, and damaged tarp covers will be promptly replaced. The stockpiled soil/fill will be placed on top of and completely covered by polyethylene sheeting. All polyethylene sheeting will be a minimum thickness of 6 millimeter

(mm) to reduce the infiltration of precipitation and to eliminate the formation of dust. The stockpile area shall be protected from stormwater runoff. Soil stockpiles will be continuously encircled with a silt fence. Non-soil weights (e.g. tires or rock) may be necessary to inhibit movement of the cover sheeting by wind. Stockpiles will be inspected, at a minimum, once each week and after every storm event, and in accordance with the Site SWPPP. Results of inspections will be recorded in a logbook and maintained at the Site and available for inspection by the Village.

Soil Excavation and Direct Loading

As noted above, the plan for the proposed foundation excavation is to direct load the trucks unless one of the contingencies noted above occurs. A Roll-off container will be placed at the Site for disposal of any encountered/excavated debris. The roll-off container will be securely covered when not in use or when filled. A qualified environmental professional or person under their supervision will oversee all invasive work and the excavation and load-out of all excavated material in areas where impacted soils are encountered. The property owner and its contractor are solely responsible for safe execution of all invasive and other work performed under this Excavation Work Plan. The contractor will have an OSHA competent person (trained in accordance with 29 CFR 1926) on-Site and responsible for excavation safety. The excavation shall be completed in accordance with the following measures:

- Employ a transport vehicle tracking pad for vehicle loading operations to control and contain contaminated soil and debris spillage along with a truck cleaning station. The Site entrance and tracking pad detail and truck cleaning station description and detail are included at the end of this Scope ("**Appendix 2** – Alternative to Truck Washing Station"). The impacted excavation areas shall be an open excavation, which will comply with the trenching and excavation requirements of 29 CFR 1926.651 and 1926.652. During non-work hours – or when awaiting laboratory data from end-point samples – the excavations will be secured and covered with 6 mil polyethylene sheeting as required to control dust and vapor that could emanate from the open excavations. The excavations will be backfilled as soon as practicable (i.e., when sample results are received and reviewed with the Village, given there are no safety, odor, or other nuisance issues related to the excavation), or immediately (i.e., if odors or other nuisance issues are noted, or for any safety reasons) even if backfill material has to be removed to perform more sampling or excavation at a later time. A demarcation layer will be installed at completed excavations in case additional soil needs to be removed. The contractor will provide excavation protection system(s) required by ordinances, codes, laws and regulations to prevent injury to workers and to prevent damage to new and existing structures or utilities. Should the foundation excavation be required to remain open while awaiting and during construction of the foundation, the excavation will continue to comply with all environmental and safety protocols noted in this document. It is not anticipated that any on-Site staff will be required to enter excavation areas that are more than 4 feet deep.

Unless shown or specified otherwise, protection system(s) shall be utilized under the following conditions:

- Excavations Less Than 5 Feet Deep: Excavations in stable rock or in soil conditions where there is no potential for a cave-in may be made with vertical sides.
- During soil removal, all trucks will be direct loaded. Stockpiling is not planned for the excavation. During excavation, a covered Roll-off container will be staged on-Site for encountered/excavated debris (e.g. metal debris, tires, lumber, etc.). Materials contained in the roll-off will be disposed of off-Site in accordance with all applicable rules and regulations.
- Excavations More Than 5 Feet Deep: Excavations in stable rock may be made with vertical sides. Under all other conditions, the sidewalls of the excavations may be required to be sloped or shored to sufficiently provide for safe excavation, which may slightly expand the footprint. The OSHA excavation competent person overseeing the excavation activities will be responsible for the configuration of the excavation as it pertains to the trenching and excavation requirements of 29 CFR 1926.651 and 1926.652, and on decisions to backfill a source area that is completed. If the footprint is expanded, the material from outside of the proposed footprint shall be handled in the same manner as all material in this Scope of Work. It is anticipated that benching, shielding or shoring and bracing will be required. The excavation hole will be secured with a 6 millimeter (mm) polyethylene sheeting, as required, to control dust and vapor that could emanate from the open excavation as noted above or will be backfilled with material (from on-Site or off-Site sources) pre-approved by NYSDEC and the Village if material is imported from off-Site.
- Debris and Waste (non-soil) that are encountered: If debris and wastes (non-soil; wire, metal, scrap/metal) are encountered, a roll-off container will be available. All solid wastes, such as these, will be appropriately characterized and disposed of off-Site in accordance with all applicable local, State, and Federal rules and regulations. A roll-off for debris such as wire, metal, scrap/metal will be staged on-Site (see above comment) to address this potential waste stream

The excavation or disturbances will be temporarily covered with a tarp if odors are present until the end-point sample results have been received (as further described here) or backfilled with on-Site material for any nuisance condition or safety reasons. Backfill material which is sourced on Site shall be placed cautiously into the excavations to avoid generation of dust. Monitoring for dust and odors/emissions shall be performed per the CAMP. Excavation will proceed cautiously due to the possibility of previously unknown sources such as underground storage tanks that could be encountered. If such sources are encountered, they will be cautiously removed as further described below. Readings on the air monitors that are set up in

the excavation Work Areas will be constantly assessed so that the appropriate pace of work can be determined. Following OSHA excavation safety requirements, the excavations will be secured using orange snow fencing (at completion or at the end of each work day). If the excavation remains open prior to receiving backfill, it will be covered with 6 mil polyethylene sheeting as required based on Work Area monitoring to control dust and vapor that could emanate from the open excavation. The excavation may be kept open and secured, as described above, until end-point sample data is received.

- The excavation will ultimately be backfilled with approved material, as required and approved by the NYSDEC and the Village. Unless for safety reasons, the excavations will be secured in this manner until laboratory end-point soil samples are obtained.

- All loading and transportation activities will be conducted in accordance with all applicable Federal, State, and Local regulations, including but not limited to United States Department of Transportation (USDOT) and United States Environmental Protection Agency (USEPA) Regulations 40 CFR 172-179.

- The NYSDEC and the Village will be notified in writing when loading of contaminated soil/fill will occur and include the name and location of the disposal facility to be used.

- Loading and transport of contaminated soil and debris will not occur until receipt of approval from the disposal facility in which the contaminated soil and debris will be disposed.

- All loading activities will be conducted in a manner to minimize the formation of dust. Contaminated soil and debris transport containers will be covered to prevent release of dust and particulates and exposure of the contaminated soil and debris to precipitation.

- Confirmation sampling of the sidewalls per DER-10 Section 5.4(b) 5 will be used to determine that the excavation is complete. Any confirmation sampling results that demonstrate contaminated material is present (i.e., grossly contaminated soil) will require further excavation and sampling to a maximum depth of 15 feet below ground surface. In contaminated excavation areas, end-point samples will be collected for laboratory analysis and compared to the Commercial Soil Cleanup Objectives (CSCOs). Samples will be collected in areas biased towards visible contamination, odor and/or high VOC concentrations. If there are significant end-point exceedances of the CSCOs, the sidewall samples will be compared to existing data points from that area and applicable property boundary data to determine if further excavation is required. For example, the type of contaminant and whether it is volatile or not will be considered, and the location of the excavation in relation to other Site conditions and data will be considered. Observations made during excavations will also be considered to determine if the excavation is completed, or if further excavation is needed (e.g., debris or stained soil visible on sidewall).

- The documented contaminated excavation areas for the foundation will have end-point soil samples collected that will be analyzed for:
    - VOCs via EPA Method 8260
    - SVOCs via EPA Method 8270
    - TAL Metals
    - PCBs
    - Pesticides
- As required by the EWP, dust and odor suppression (water and polyethylene sheeting) will be available during all excavation work and documented.
- A truck cleaning and inspection station will be operated on-Site. The truck cleaning station will be used for all vehicles leaving the Site. Trucks will be brushed and/or scrubbed clean as required when exiting the Site and the Site truck exit areas will be inspected periodically. To the extent that any dirt has exited the Site, the exit ramp and street will be cleaned. If necessary, in order to prevent soil from collecting on truck tires and parts during loading, a polyethylene tarp will be constructed by attaching plastic to a large 2 x 8-inch board equivalent to the length of the triaxle bed that will be draped over the side of the dump trailer bed during loading. The tarp will protect the loading side of the truck from soil accumulation and dust during loading. All trucks transporting waste from the Site will adhere to the following load covering:
    - Solid vinyl or equivalent tops;
    - Trucks will be required to have gasketed or tightly fitting tail gates;
- Trucks transporting clean material on-Site (from off-Site sources or from on-Site borrow areas) will not be the same trucks removing contaminated material from the Site. The proposed truck cleaning and inspection station details for the project are included at the end of this document in **Appendix 2**.
- Egress points for truck and equipment transport from the Site will also be kept clean of dirt and other materials during Site remediation and development. Locations where vehicles enter or exit the Site will be inspected daily to ensure there is no off-Site soil tracking. Soil that has been tracked off-Site will be swept or cleaned as appropriate. The qualified environmental professional will be responsible for ensuring that all egress points for truck and equipment transport from the Site are clean of dirt and other materials derived from the Site during intrusive excavation activities. Cleaning of the adjacent streets will be performed as needed to maintain a clean condition with respect to Site-derived materials.

- Loaded transport vehicle tires and undercarriages will be inspected and cleaned to remove any adhering contaminated soil and debris prior to vehicle departure from the Site. Loaded vehicles leaving the Site will be appropriately tarped, securely covered, manifested (if needed), secured, and placarded in accordance with appropriate Federal, State, Local, and NYSDOT requirements (and all other applicable transportation requirements). Trucks used for transportation of contaminated soil and debris will travel on authorized roads in accordance with all Federal, State and Local regulations. Queuing of trucks will be performed on-Site in order to minimize off-Site disturbances around the Site entrance. Off-Site queuing will be prohibited.

- Planned truck transport routes are defined as follows:

  - Trucks coming from Interstate 95 will approach the Site from the west on Fenimore Road (northbound, Exit 18A). Trucks will then turn south (right) onto Waverly Avenue and enter the Site at a driveway along the western side of the property. Exiting trucks will travel north on Waverly Avenue, turn left (north) onto Mamaroneck Avenue and proceed to the Interstate 95 southbound entrance ramp ((see **Figure 2**). All trucks loaded with Site materials will enter and exit the vicinity of the Site using only these approved truck routes. This is the most appropriate route and takes into account: (a) limiting transport through residential areas and past sensitive Sites; (b) use of city mapped truck routes; (c) prohibiting off-Site queuing of trucks entering the facility; (d) limiting total distance to major highways; (e) promoting safety in access to highways; and (f) overall safety in transport. Trucks will be prohibited from stopping and idling in the neighborhood outside the Site. The planned truck route for the proposed excavation is included on **Figure 2.**

- All manifests will be signed by the on-Site contractor soil disposal representative on behalf of the Site owner and they will retain all disposal and waste characterization documentation, which shall be provided to HES and the Village.

Soil Disposal Off-Site

All soil/fill/solid waste excavated and removed from the Site will be treated as contaminated and regulated material and will be transported and disposed of in accordance with all Local, State (including 6 NYCRR Part 360) and Federal regulations. If disposal of soil/fill from this Site is proposed for unregulated off-Site disposal (i.e. clean soil removed for development purposes), a formal request with an associated plan will be made to the NYSDEC. However, this is not anticipated at this time. Unregulated off-Site management of materials from this Site will not occur without formal NYSDEC approval.

Off-Site disposal locations for excavated soils will be identified in the pre-excavation notification. This will include estimated quantities and a breakdown by class of disposal facility if appropriate, i.e. hazardous waste disposal facility, solid waste landfill, petroleum treatment

facility, C&D recycling facility, etc. Waste classification soil sampling will need to be completed for the excavation area.

Actual disposal quantities and associated documentation will be reported to the NYSDEC and the Village in the applicable report. This documentation will include: waste profiles, test results, facility acceptance letters, manifests, bills of lading and facility receipts. Non-hazardous historic fill and contaminated soils taken off-Site will be handled, at minimum, as a Municipal Solid Waste per 6 NYCRR Part 360-1.2.

Contingency Plan

If underground storage tanks (USTs), drums, free product, or other previously unidentified contaminant sources are found during excavation, excavation activities will be suspended and the NYSDEC will immediately be notified. The excavation will be re-covered if necessary, based on “at hole” air monitoring data. If necessary, the area will be secured and covered until an agency-approved plan is in place to delineate, characterize, and remedy any new source area finding. Any drums and/or USTs or other source material encountered will be evaluated and a removal plan will be submitted for NYSDEC approval. Appropriately trained personnel will excavate and handle all source area materials in accordance with all applicable Federal, State, and Local regulations. Removed drums and tanks will be properly characterized and disposed of off-Site. The soil/fill surrounding the buried drums or underground storage tanks will be considered as potentially contaminated and will be direct-loaded for off-Site disposal (or, temporarily stockpiled and characterized, as needed).

Sampling will be performed on product, sediment and surrounding soils, etc. as necessary to determine the nature of the material and proper disposal method. Chemical analysis will be performed for a full list of analytes (TAL metals; TCL volatiles and semi-volatiles, TCL pesticides and PCBs), unless the Site history and previous sampling results provide a sufficient justification to limit the list of analytes. In this case, a reduced list of analytes will be proposed to the NYSDEC for approval prior to sampling.

Identification of unknown or unexpected contaminated media by screening during invasive Site work will be promptly communicated by phone to the NYSDEC and Village representatives. Reportable quantities of petroleum product will also be reported to the NYSDEC Spills Hotline

Community Air Monitoring Plan

The number of CAMP monitoring stations in documented contaminated areas operating will be three (3). Considering the Work Area as defined above, there will be: two (2) stations in downwind locations and one (1) station in the upwind location of the Work Area. HES will monitor wind directions throughout the work day, and the CAMP stations will be re-positioned as necessary. It is noted that the locations and operations of the CAMP system are subject to

modification by the NYSDEC / NYSDOH and the Village, based on observations during work at the excavation and air results warranting such modification. As stated above, special requirements will be necessary for work within 20 feet of potentially exposed individuals or structures.

Monitoring for VOCs will be performed at each of the CAMP station locations with a PID. Upwind concentrations will be measured at the start of each workday and periodically thereafter to establish background concentrations.

Additionally, a PID and 4-gas meter will be used within the Work Area immediately adjacent to the excavation perimeter edge to monitor for VOCs and gas concentrations at the excavation during soil removal activities. A PID will also be used to scan the soils at the end-point sampling locations.

For the CAMP stations, if the ambient air concentration of total organic vapors (PID) at the downwind perimeter of the work area exceeds 5 parts per million (ppm) above background for a 15-minute average, work activities will be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities will resume with continued monitoring. If total organic vapor levels at the downwind perimeter of the Work Area persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities will be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps bring the vapor levels below 5 ppm over background for the 15-minute average, work activities will resume provided that the total organic vapor level 200 feet downwind of the work area or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less, remains below 5 ppm over background for the 15-minute average. If the organic vapor level is above 25 ppm at the perimeter of the work area, activities will be shutdown and the area backfilled or otherwise covered with foam and polyethylene sheeting.

Particulate concentrations will be monitored at each of the CAMP station locations. If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques will be employed. Work will continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m3 above the upwind level and provided that no visible dust is migrating from the work area. If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m3 above the upwind level, work will be stopped and re-evaluation of activities will be initiated. Work will resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m3 of the upwind level and in preventing visible dust migration.

If the proposed work area is within 20-feet or less of the property boundary then a reduction of CAMP monitoring levels is required. Any work occurring within 20-feet of the property perimeter will require the action level for VOCs to be lowered from exceeding 5 ppm

above background during a 15-minute average to 5 ppm above background level during a 5-minute average. Additionally, the action level for particulate concentrations at the downwind PM-10 particulate level will be lowered from 100 mcg/m3 greater than background over a 15-minute period to a 5-minute period.

Odor Control Plan

Based on the primary constituents of concern, metals, VOCs and SVOCs, as well as the field experience that odors were observed on-Site during past utility excavation along Waverly Avenue, odors may be anticipated to be a possible issue or concern.

This odor control plan is capable of controlling the migration of nuisance odors off-Site. If nuisance odors are identified at the Site boundary work will be halted and the source of odors will be identified and corrected. Work will not resume until all nuisance odors have been abated. NYSDEC and NYSDOH will be notified of all odor events. The agencies will be notified of any other complaints from the community such as dust or noise that arise directly from the project activities. Implementation of all odor controls, including the halt of work, is the responsibility of the property owner's remediation environmental consultant.

All necessary means will be employed to prevent on- and off-Site nuisance odors. These measures may include: (a) limiting the area of open excavations and size of soil stockpiles; (b) shrouding open excavations with tarps and other cover systems; (c) direct load-out of soils to trucks for off-Site disposal; (d) use of staff to monitor wind conditions and odors at the immediate excavation area, property line and, if necessary, beyond property lines.

Clean Fill Imported to the Site for Backfill

As stated above, all materials proposed for import onto the Site will be approved by the qualified environmental professional and will be in compliance with provisions in this EWP prior to receipt at the Site. Information on potential / proposed clean fill materials (source, soil / stone type, laboratory analytical data) will be submitted to NYSDEC and the Village, which requires, at a minimum, sampling of the material and disclosure of the source.

Material from industrial sites, spill sites, or other environmental remediation sites or potentially contaminated sites will not be imported to the Site.

All imported soils will meet the backfill and cover soil quality standards established in 6 NYCRR 375-6.7(d). Soils that meet "exempt" fill requirements under 6 NYCRR Part 360, but do not meet backfill or cover soil objectives for this Site, will not be imported onto the Site without prior approval by NYSDEC. Solid waste will not be imported onto the Site.

Trucks entering the Site with imported soils will be securely covered with tight fitting covers. Imported soils will be used immediately for backfill or stockpiled separately from excavated materials and covered to prevent dust releases.

Off-Site borrow soils will be documented as having originated from locations having no evidence of disposal or release of hazardous, toxic or radioactive substances, wastes or petroleum products. Off-Site borrow soils intended for use as Site backfill cannot otherwise be defined as a solid waste in accordance with 6 NYCRR Part 360-1.2(a).

If the contractor designates a source as "virgin" soil, it shall be further documented in writing to be native soil material from areas not having supported any known prior industrial or commercial development or agricultural use. Virgin soils should be subject to collection of one representative composite sample per source. The sample should be analyzed for TCL VOCs, SVOCs, pesticides, PCBs, and TAL metals. The soil will be acceptable for use as backfill provided that all parameters meet the Allowable Constituent Levels for Imported Fill or Soil, provided as Appendix 5 of DER-10 (May 2010) **Health and Safety Procedures for Intrusive Activities**.

Contractors engaged in subsurface excavation activities will be required to implement appropriate health and safety procedures. These procedures will involve, at a minimum, donning adequate personal protective equipment, performing appropriate air monitoring, and implementing other engineering controls, as necessary, to mitigate potential ingestion, inhalation and contact with residual constituents in the soils. A Site-specific, activity-specific Health and Safety Plan (HASP) will be prepared for the Site by the Construction Contractor (Contactor). All required on-Site construction and technical personnel who are required to be OSHA 40-hour HAZWOPER training and 10-hour OSHA Construction training will maintain up to date training. An OSHA Competent Person in accordance with 29CFR-1926 will be on-Site and responsible for excavation safety.

If you have any questions regarding the Scope of Work for the Proposed Foundation Excavation, please contact me at (914) 276-2560. We look forward to continuing to work with you on this project.

Very truly yours,
HydroEnvironmental Solutions, Inc.

Steven Verdibello, PG
Project Manager

William A. Canavan, PG, LSRP
President

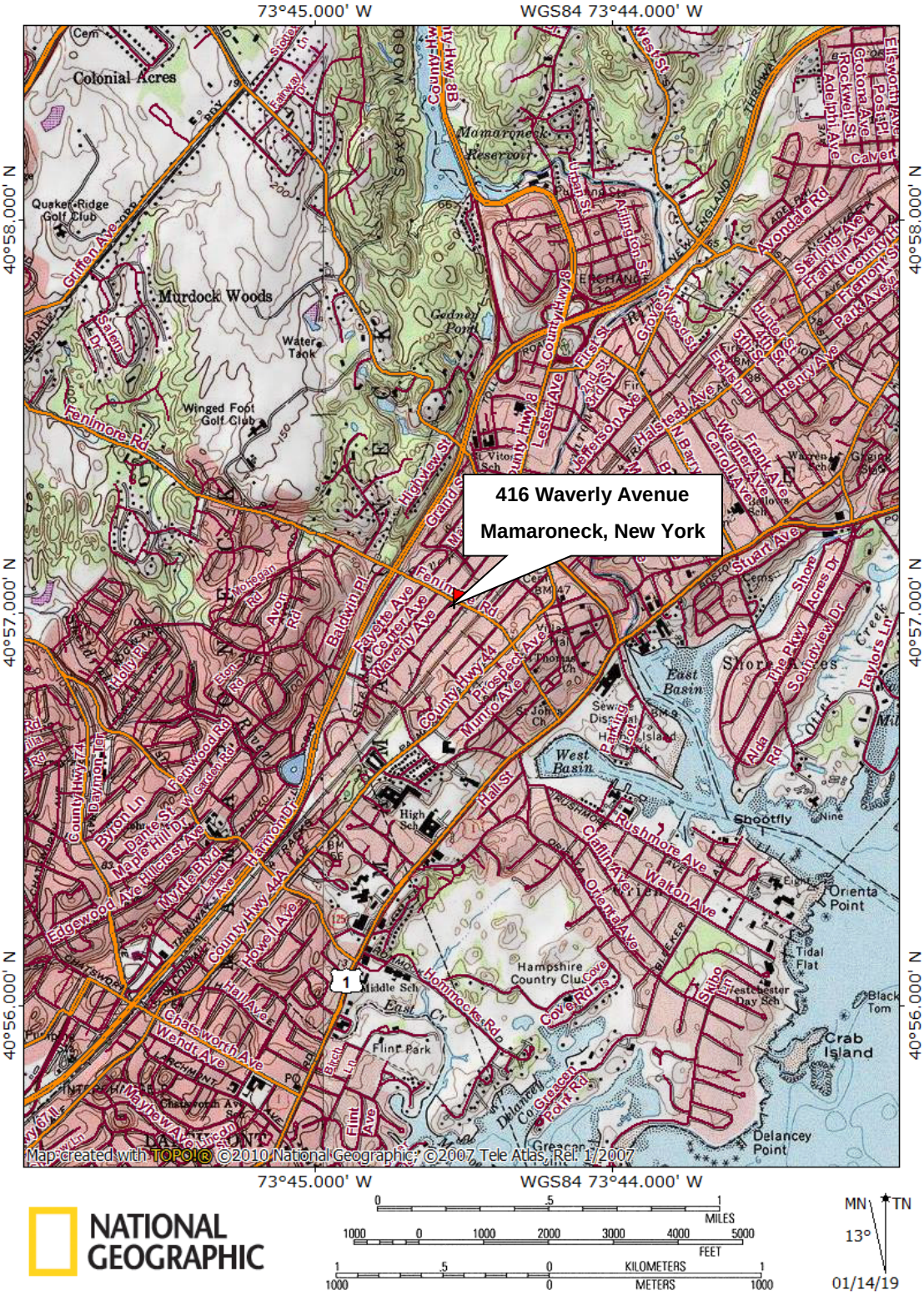
Enclosures

cc: Kristen Motel, Esq. – Cuddy & Feder
Village of Mamaroneck Building Inspector
File

FIGURES

FIGURE 1

Site Location Map



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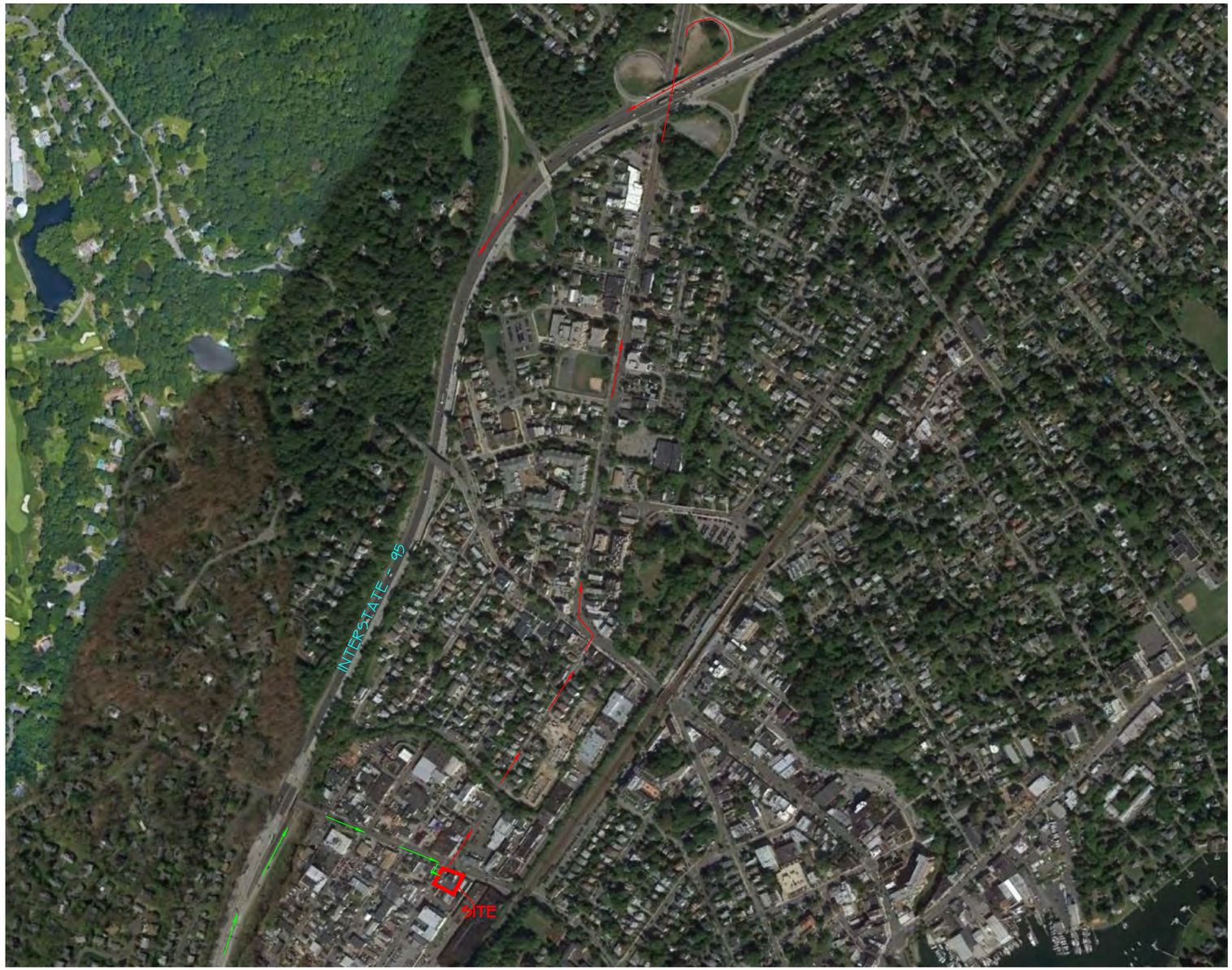


LEGEND

ROUTE TO SITE

ROUTE FROM SITE

FIGURE 2

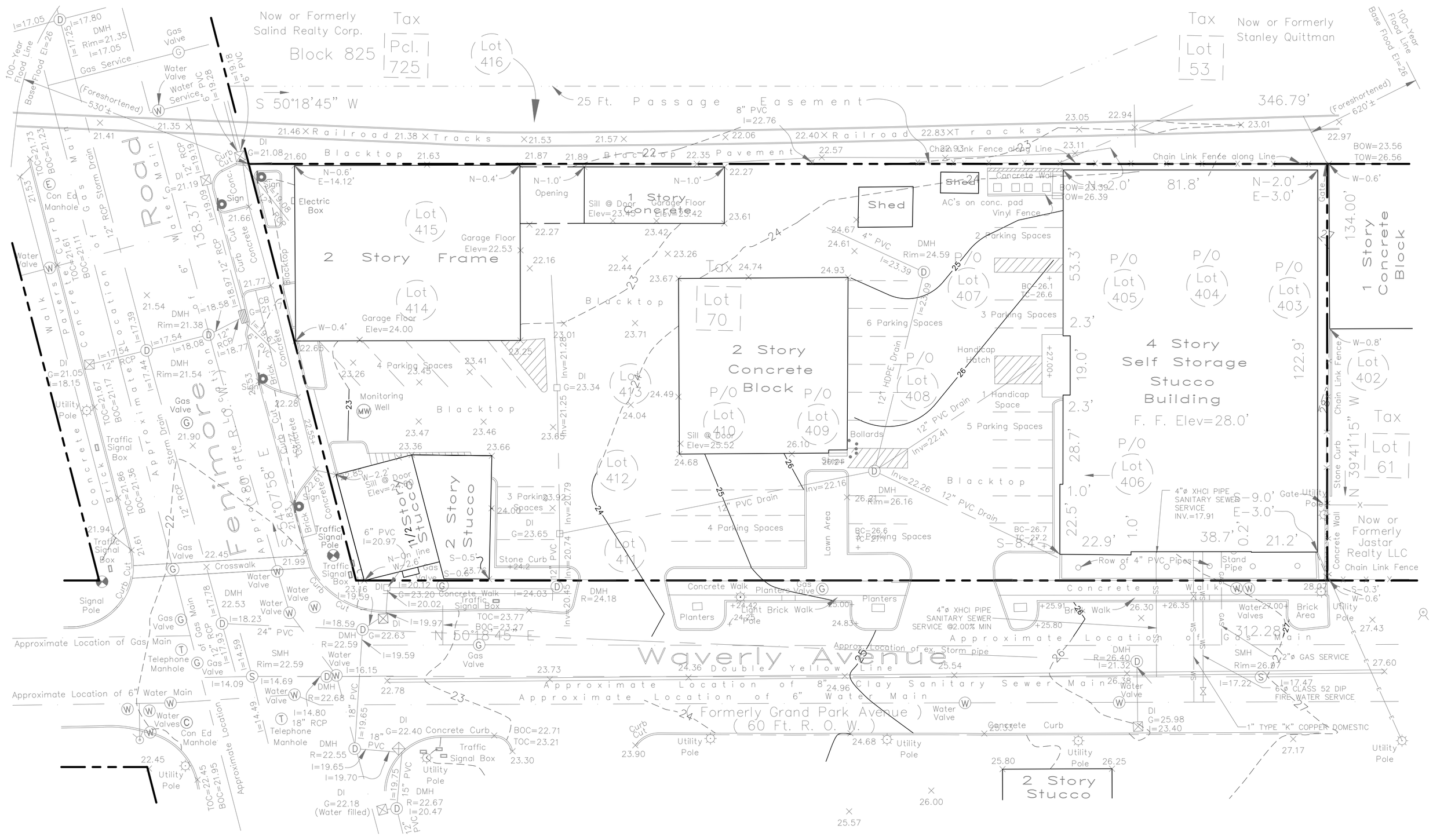
416 WAVERLY AVENUE MAMARONECK, NEW YORK	GENERALIZED SITE PLAN	NOT TO SCALE	JANUARY 2019
		TRUCK TRANSPORT ROUTE	

HydroEnvironmental
SOLUTIONS, INC.
One Deans Bridge Road
Somers, New York 10589

APPENDICES

APPENDIX 1

Construction Drawings and Foundation Detail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Elev=24.00
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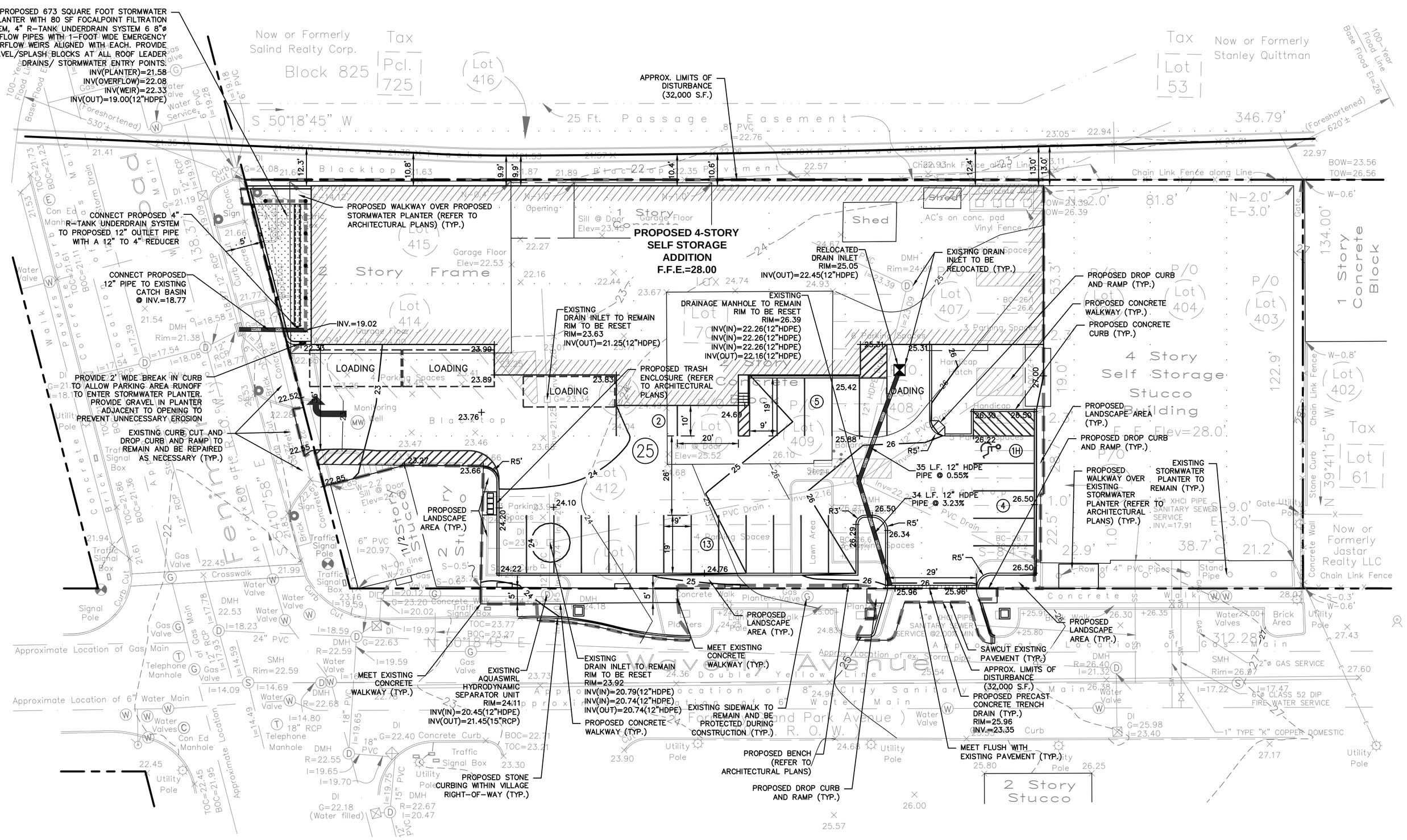
403
4 Story
Self Storage
Stucco
Building
F. F. Elev=28.0'
1 Story
Concrete
Block
Lot
402
Tax
Lot
61
Now or
Formerly
Jastar
Realty LLC
Chain Link Fence
Lot
413
Lot
412
Lot
411
2 Story
Stucco
Waverly Avenue
Approximate Location of 8" Clay Sanitary Sewer Main
Approximate Location of 6" Water Main
Approximate Location of Gas Main
Approximate Location of 6" Water Main
Formerly Grand Park Avenue
(60 Ft. R. O. W.)
N 50°18'45" E
Concrete Walk
Brick Walk
Approximate Location of Gas Main
2" GAS SERVICE
CLASS 52 DIP
FIRE WATER SERVICE
1" TYPE "K" COPPER DOMESTIC
4"ø XHCI PIPE
SANITARY SEWER
SERVICE @2.00% MIN
Concrete Curb
Crosswalk
Signal Pole
Utility Pole
Traffic Signal Box
Water Valve
Gas Valve
Telephone Manhole
Con Ed Manhole
Monitoring Well
Electric Box
Sign
Gate
Stone Curb
Chain Link Fence
Planters
Light Brick Walk
Lawn Area
Bollards
Handicap Space
Handicap Ramp
2 Parking Spaces
3 Parking Spaces
4 Parking Spaces
5 Parking Spaces
6 Parking Spaces
AC's on conc. pad
Vinyl Fence
Row of 4" PVC Pipes
Stand Pipe
Brick Area
Water Valves
Approximate Location of ex. Storm pipe
Concrete Curb
Concrete Wall
Stone Cut
Curb Cut
Approximate Location of 6" Water Main
Approximate Location of Gas Main
Approximate Location of 8" Clay Sanitary Sewer Main
Approximate Location of 6" Water Main
Approximate Location of Gas Main
Approximate Location of 6" Water Main
Approximate Location of Gas Main
Approximate Location of 6" Water Main
Approximate Location of Gas



GENERAL NOTES:

1. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE SUPERVISION OF THE CONSTRUCTION.
2. NO CHANGES SHALL BE MADE TO THESE PLANS EXCEPT AS PER NYS LAW CHAPTER 987.
3. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL APPLICABLE CODES, INCLUDING BUT NOT LIMITED TO ACI, AISC, ZONING, AND THE NEW YORK STATE BUILDING CODE.
4. ALL CONDITIONS, LOCATIONS AND DIMENSIONS SHALL BE FIELD VERIFIED AND THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED OF ANY DISCREPANCIES.
5. ALL CHANGES MADE TO THE PLANS SHALL BE APPROVED BY THE ENGINEER AND ANY SUCH CHANGES SHALL BE FILED AS AMENDMENTS TO THE ORIGINAL BUILDING PERMIT.
6. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
7. THE CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER FOR THE ACTS AND OMISSIONS OF HIS EMPLOYEES, SUBCONTRACTORS AND THEIR AGENTS AND EMPLOYEES, AND OTHER PERSONS PERFORMING ANY OF THE WORK UNDER A CONTACT WITH THE CONTRACTOR.
8. SAFETY DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO ALL LOCAL, STATE AND FEDERAL AGENCIES IN EFFECT DURING THE PERIOD OF CONSTRUCTION.
9. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL MAKE APPLICATION TO RECEIVE ALL NECESSARY PERMITS TO PERFORM THE WORK UNDER CONTRACT. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL BE LICENSED TO DO ALL WORK AS REQUIRED BY THE LOCAL, COUNTY, AND STATE AGENCIES WHICH MAY HAVE JURISDICTION OVER THOSE TRADES, AND SHALL PRESENT THE OWNER WITH COPIES OF ALL LICENSES AND INSURANCE CERTIFICATES.
10. FINAL GRADING AROUND THE BUILDING AREA SHALL SLOPE AWAY FROM THE STRUCTURE.
11. ALL WRITTEN DIMENSIONS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER ANY SCALED DIMENSIONS.
12. ADJOINING PUBLIC AND PRIVATE PROPERTY SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION, REMODELING AND DEMOLITION WORK. PROTECTION MUST BE PROVIDED FOR FOOTINGS, FOUNDATIONS, PARTY WALLS, CHIMNEYS, SKYLIGHTS AND ROOFS. PROVISIONS SHALL BE MADE TO CONTROL WATER RUNOFF AND EROSION DURING CONSTRUCTION OR DEMOLITION ACTIVITIES. THE PERSON MAKING OR CAUSING AN EXCAVATION TO BE MADE SHALL PROVIDE WRITTEN NOTICE TO THE OWNERS OF ADJOINING BUILDINGS ADVISING THEM THAT THE EXCAVATION IS TO BE MADE AND THAT THE ADJOINING BUILDING SHOULD BE PROTECTED. SAID NOTIFICATION SHALL BE DELIVERED NOT LESS THAN 10 DAYS PRIOR TO THE SCHEDULED STARTING DATE OF THE EXCAVATION.
13. OWNER SHALL INSURE THAT THE INSURANCE PROVIDED BY THE CONTRACTOR HIRED TO PERFORM THE WORK SHALL BE ENDORSED TO NAME HUDSON ENGINEERING & CONSULTING, P.C., AND ANY DIRECTORS, OFFICERS, EMPLOYEES, SUBSIDIARIES, AND AFFILIATES, AS ADDITIONAL INSURED ON ALL POLICIES AND HOLD HARMLESS DOCUMENTS, AND SHALL STIPULATE THAT THIS INSURANCE IS PRIMARY, AND THAT ANY OTHER INSURANCE OR SELF-INSURANCE MAINTAINED BY HUDSON ENGINEERING & CONSULTING, P.C., SHALL BE EXCESS ONLY AND SHALL NOT BE CALLED UPON TO CONTRIBUTE WITH THIS INSURANCE. ISO ADDITIONAL INSURED ENDORSEMENT FORM NUMBER CG2010 1185 UNDER GL. COPIES OF THE INSURANCE POLICIES SHALL BE SUBMITTED TO AND HUDSON ENGINEERING & CONSULTING, P.C., FOR APPROVAL PRIOR TO THE SIGNING OF THE CONTRACT.
14. INDUSTRIAL CODE RULE 753: THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS PRIOR TO THE START OF HIS OPERATIONS AND SHALL COMPLY WITH ALL THE LATEST INDUSTRIAL CODE RULE 753 REGULATIONS.

LEGEND

PROPERTY LINE	
PROPOSED CONCRETE CURB	
PROPOSED BITUMINOUS CONCRETE PAVEMENT	
PROPOSED WALKWAY	
PROPOSED CONTOUR	26
PROPOSED SPOT GRADE	+26.25
PROPOSED STORM PIPE	
PROPOSED DRAIN INLET	
PROPOSED TRENCH DRAIN	
PROPOSED LIMIT OF DISTURBANCE	

NOTES:

1. ANY IMPORTED SOIL SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS FOR QUALITY AND USE.
2. OFF-SITE DISPOSAL OF EXCESS CUT SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS.
3. UTILITIES TO ALL EXISTING BUILDINGS TO BE DEMOLISHED SHALL BE REMOVED, CUT AND AND CAPPED AT THE MAIN PER VILLAGE OF MAMARONECK STANDARDS.

Cut/Fill Summary

	Cut	Fill	Net
Totals	69.31 Cu. Yd.	127.91 Cu. Yd.	58.59 Cu. Yd.<Fill>

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

No.	Revisions	Date
1.	REVISED PER TOWN COMMENTS	9-27-18

THIS PLAN NOT VALID FOR CONSTRUCTION WITHOUT ENGINEER'S SEAL & SIGNATURE

PROJECT:

SELF STORAGE BUILDING ADDITION
560 FENIMORE ROAD
VILLAGE OF MAMARONECK
WESTCHESTER COUNTY – NEW YORK

STORMWATER MANAGEMENT PLAN

STATE OF NEW YORK · MICHAEL A. SIEGEL · LICENSED PROFESSIONAL ENGINEER · No. 80637

HEC

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Date: 2/8/18
Scale: 1" = 20'
Designed By: D.C.
Checked By: M.S.
Sheet: 2 / 7
Sheet No. C-2

ANY ALTERATIONS OR REVISIONS OF THESE PLANS, UNLESS DONE BY OR UNDER THE DIRECTION OF THE NYS LICENSED AND REGISTERED ENGINEER THAT PREPARED THEM, IS A VIOLATION OF THE NYS EDUCATION LAW.

INSTALLATION & MAINTENANCE OF EROSION CONTROL:

CONSTRUCTION SCHEDULE
NOTIFY APPROPRIATE MUNICIPAL AGENCY HAVING JURISDICTION AT LEAST 5 DAYS PRIOR TO START.

EROSION CONTROL MEASURES
INSTALL ALL EROSION CONTROL MEASURES PRIOR TO START OF CONSTRUCTION. CALL FOR INSPECTION FROM THE APPROPRIATE MUNICIPAL AGENCY HAVING JURISDICTION AT LEAST 2 DAYS PRIOR TO INSTALLATION.

INSPECTION BY MUNICIPALITY
MAINTENANCE (TO BE PERFORMED DURING ALL PHASES OF CONSTRUCTION)

AFTER ANY RAIN CAUSING RUNOFF, CONTRACTOR TO INSPECT HAYBALES, ETC. AND REMOVE ANY EXCESSIVE SEDIMENT AND INSPECT STOCKPILES AND CORRECT ANY PROBLEMS WITH SEED ESTABLISHMENT.
INSPECTIONS SHALL BE DOCUMENTED IN WRITING AND SUBMITTED TO THE APPROPRIATE MUNICIPAL AGENCY HAVING JURISDICTION.

INSPECTION BY MUNICIPALITY – FINAL GRADING
REMOVE UNNEEDED SUBGRADE FROM SITE.
CALL FOR INSPECTION FROM THE APPROPRIATE MUNICIPAL AGENCY HAVING JURISDICTION AT LEAST 2 DAYS PRIOR TO FINISH.

INSPECTION BY MUNICIPALITY – LANDSCAPING

SPREAD TOPSOIL EVENLY OVER AREAS TO BE SEEDED. HAND RAKE LEVEL. BROADCAST 1.25 LB. BAG OF JONATHAN GREEN "FASTGROW" MIX OR EQUAL OVER AREA TO BE SEEDED. APPLY STRAW MULCH AND WATER WITHIN 2 DAYS OF COMPLETION OF TOPSOILING. CALL FOR INSPECTION FROM THE APPROPRIATE MUNICIPAL AGENCY HAVING JURISDICTION AT LEAST 2 DAYS PRIOR TO FINISH.

INSPECTION BY MUNICIPALITY – FINAL LANDSCAPING

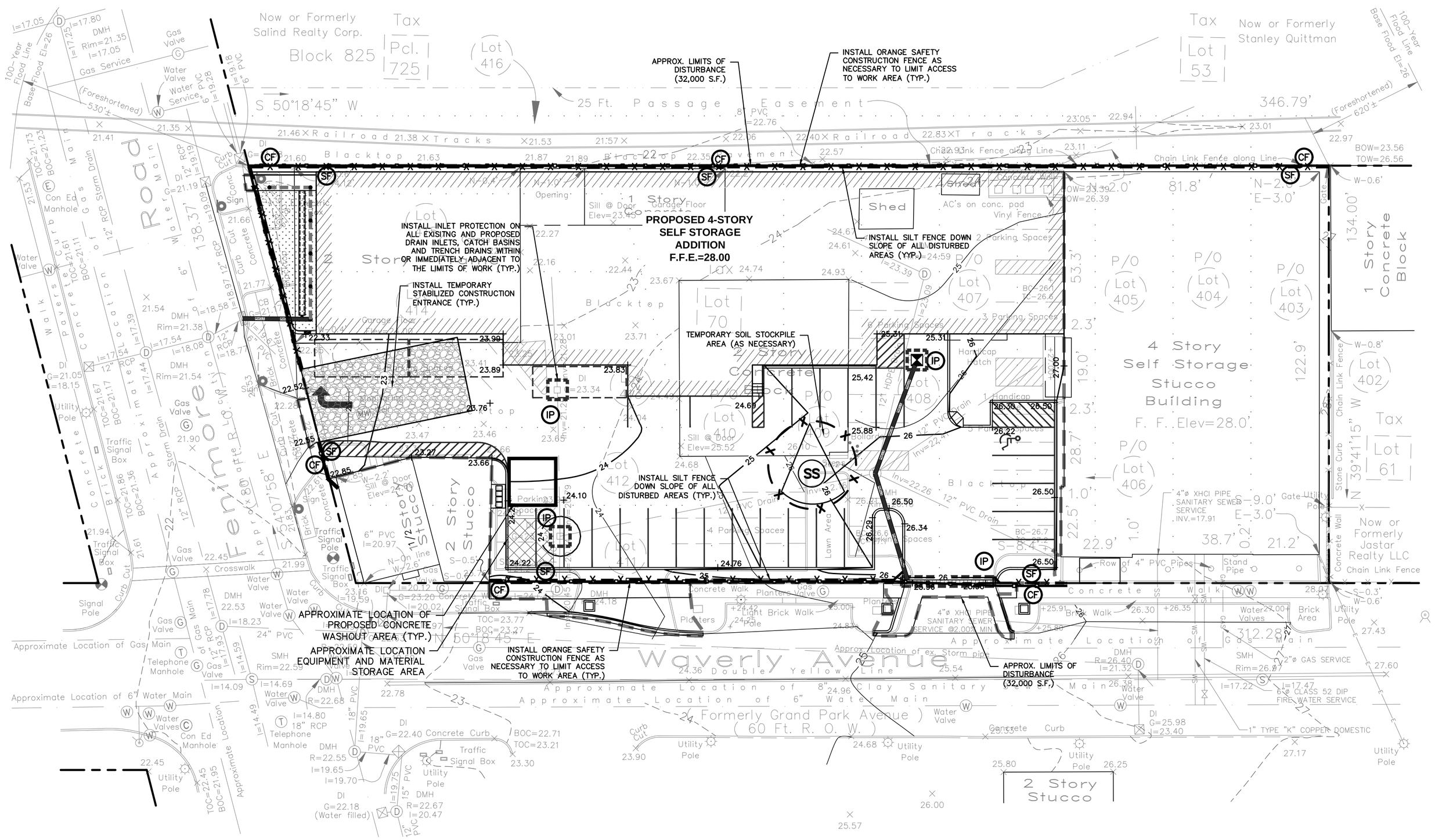
GRASS ESTABLISHED.
CALL FOR INSPECTION FROM THE APPROPRIATE MUNICIPAL AGENCY HAVING JURISDICTION AT LEAST 2 DAYS PRIOR TO FINISH.

INSPECTION BY MUNICIPALITY – FINAL INSPECTION

ALL EROSION CONTROL MEASURES REMOVED AND GRASS ESTABLISHED.
CALL FOR INSPECTION FROM THE APPROPRIATE MUNICIPAL AGENCY HAVING JURISDICTION AT LEAST 2 DAYS PRIOR TO FINISH.

LEGEND

- TEMPORARY INLET PROTECTION (IP)
- TEMPORARY SILT FENCE (SF)
- TEMPORARY CONSTRUCTION FENCE (CF)
- TEMPORARY SOIL STOCKPILE AREA (SS)
- STABILIZED CONSTRUCTION ENTRANCE
- PROPOSED LIMIT OF DISTURBANCE



GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

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No.	Revisions	Date
1.	REVISED PER TOWN COMMENTS	9-27-18

THIS PLAN NOT VALID FOR CONSTRUCTION WITHOUT ENGINEER'S SEAL & SIGNATURE

PROJECT:
SELF STORAGE BUILDING ADDITION
560 FENIMORE ROAD
VILLAGE OF MAMARONECK
WESTCHESTER COUNTY – NEW YORK

EROSION & SEDIMENT CONTROL PLAN

STATE OF NEW YORK · MICHAEL F. SHEIN · No. 80637 · LICENSED PROFESSIONAL ENGINEER

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Date: 2/8/18 Sheet: 3 / 7
Scale: 1" = 20'
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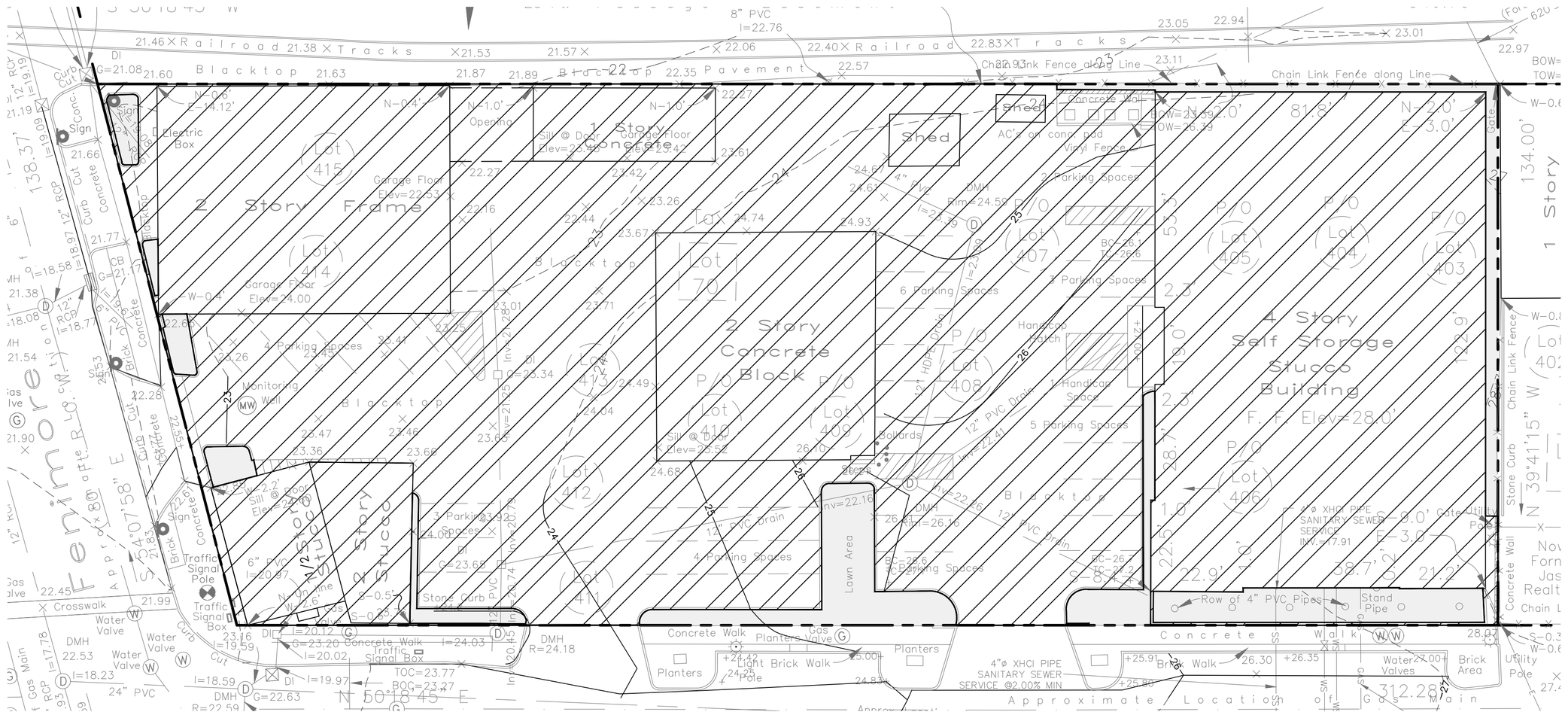
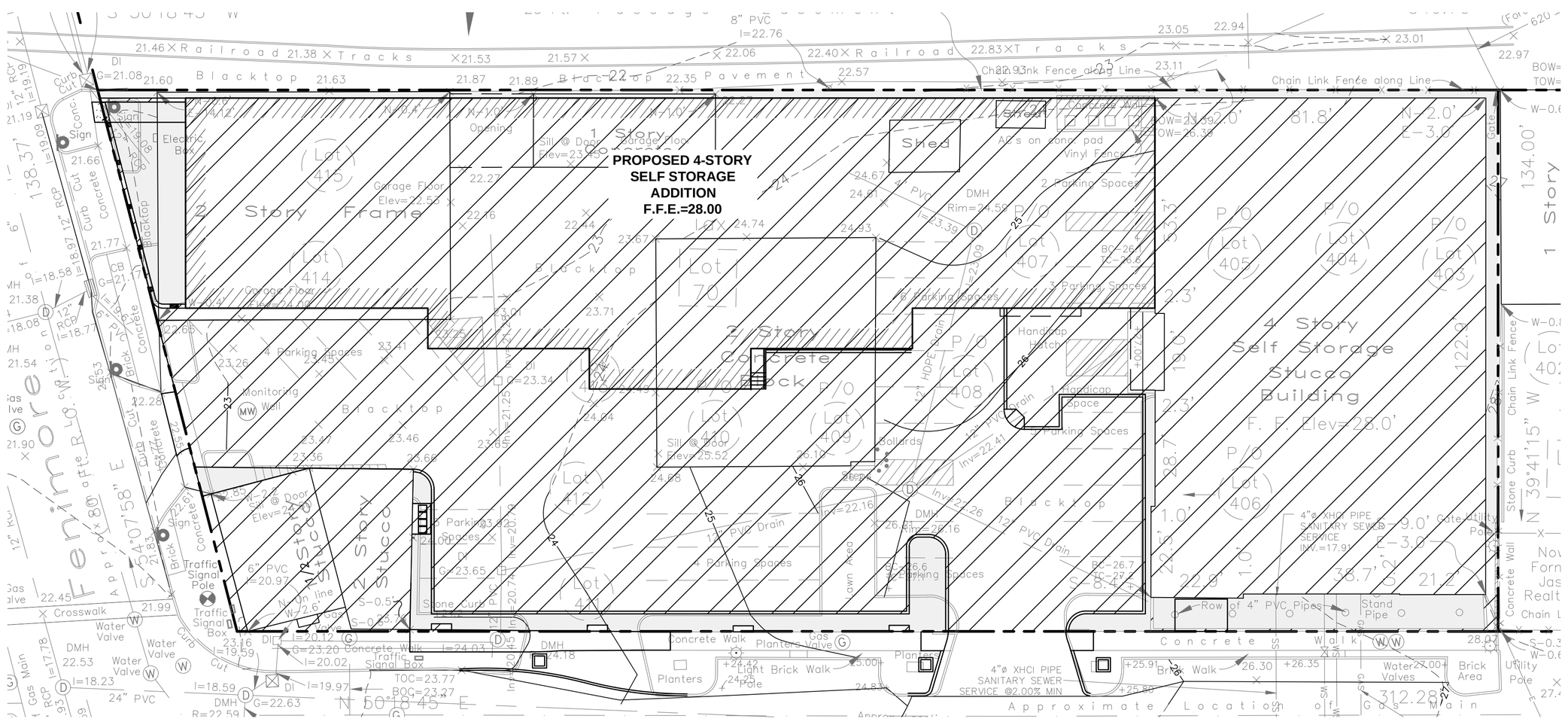
Checked By: M.S.
Sheet No. C-3



EXISTING SITE COVERAGE
SCALE: 1"=20'

Existing Site Coverage

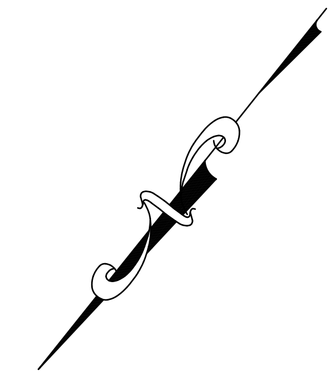
Impervious:	41,390 SF
Pervious:	2,766 SF



PROPOSED SITE COVERAGE
SCALE: 1"=20'

Proposed Site Coverage

Impervious:	40,675 SF
Pervious:	3,481 SF



LEGEND

IMPERVIOUS COVER

PERVIOUS COVER

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

ANY ALTERATIONS OR REVISIONS OF THESE PLANS, UNLESS DONE BY OR UNDER THE DIRECTION OF THE NYS LICENSED AND REGISTERED ENGINEER THAT PREPARED THEM, IS A VIOLATION OF THE NYS EDUCATION LAW.

No.	Description	Date
1.	REVISED PER TOWN COMMENTS	9-27-18

Revisions

THIS PLAN NOT VALID FOR CONSTRUCTION WITHOUT ENGINEERS SEAL & SIGNATURE

PROJECT:

SELF STORAGE BUILDING ADDITION
560 FENIMORE ROAD
VILLAGE OF MAMARONECK
WESTCHESTER COUNTY – NEW YORK

SITE COVERAGE PLAN

STATE OF NEW YORK · RICHARD A. STEIN · No. 80637 · LICENSED PROFESSIONAL ENGINEER

HEC

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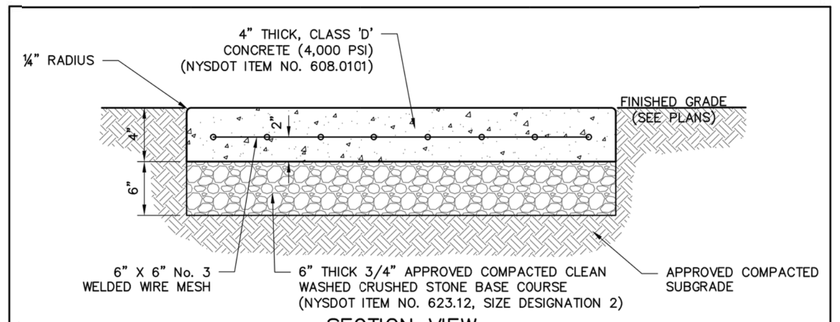
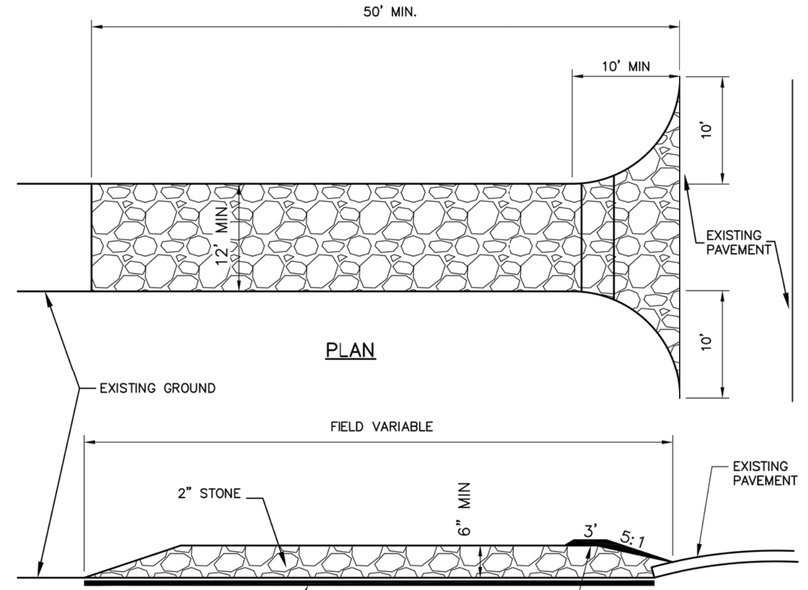


SECTION VIEW

NOTES:

1. WHEN SIDEWALK ABUTS A ROADWAY, CURB AND SIDEWALK SHALL BE MONOLITHICALLY CONSTRUCTED. REFER TO VILLAGE STANDARD MONOLITHIC CURB AND SIDEWALK CONSTRUCTION DETAIL.
2. UNLESS OTHERWISE NOTED, PORTLAND CEMENT CONCRETE SIDEWALKS SHALL MEET THE SPECIFICATIONS OUTLINED IN SECTION 608 AND SUBSECTION 700 OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, DATED JANUARY 9, 2014 WITH LATEST REVISIONS.
3. THE GENERAL CONSTRUCTION DETAILS FOR MANUFACTURING AND TRANSPORTING CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 501, PORTLAND CEMENT CONCRETE– GENERAL.
4. WELDED WIRE FABRIC REINFORCEMENT SHALL BE MADE OF W2.9 OR W3 WIRE AT 6 INCH CENTERS TRANSVERSELY CONVENTIONALLY FORMED CONCRETE SHALL MEET THE REQUIREMENTS FOR CLASS D IN ACCORDANCE WITH SECTION 501 "PORTLAND CEMENT CONCRETE––GENERAL." CONCRETE SHALL CONTAIN A WATER–REDUCING ADMIXTURE MEETING THE REQUIREMENTS OF §711–08 IN SUCH A QUANTITY AS TO PROVIDE A MINIMUM 10% REDUCTION OF THE DESIGN WATER CONTENT BY USING A NORMAL RANGEWATER–REDUCER. WWF SHALL BE MANUFACTURED IN SHEETS AND PLACED WITH IN CONCRETE BY CHAIRING.
5. REINFORCING SHALL NOT EXTEND THROUGH EXPANSION JOINTS.
6. INSTALL A PREMOULDED RESILIENT JOINT FILLER, §705–07, AT ALL JOINTS BETWEEN SIDEWALK AND CURB, PAVEMENT, BUILDING, ETC. THE PREMOULDED RESILIENT JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF ASTM D1751.
7. THE EXPANSION JOINTS SHALL BE LOCATED AT ALL IMMOVABLE OBJECTS (BRIDGE SUBSTRUCTURES, ETC.), WHERE SHOWN ON THE PLANS, AND/OR AS DIRECTED BY THE ENGINEER. EXPANSION JOINTS SHALL NOT BE REQUIRED AT 20 FOOT INTERVALS.
8. PREMOULDED RESILIENT JOINT FILLER (§705–07). USE 3/8 – 5/8 INCH THICK FILLER IN TRANSVERSE EXPANSION JOINT ASSEMBLIES ONLY. INCLUDE A ONE–PIECEPREMOULDED RESILIENT JOINT FILLER IN THE ASSEMBLY THAT EXTENDS COMPLETELY ACROSS THE SLAB WIDTH. THE JOINT FILLER MUST EITHER EQUAL THE FULL DEPTH OF THE SLAB, OR EXTEND FROM THE BOTTOM OF THE SLAB TO WITHIN 1 1/2 – 2 INCHES OF THE TOP OF THE SLAB WITH A FINISHING CAP THAT EXTENDS TO THE TOP OF THE SLAB.
9. UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS, THE CONCRETE SURFACE SHALL BE SCORED AND TOOLED AT INTERVALS OF 5 FEET. SCORE THE CONCRETE A MINIMUM 1/8 INCH TO A MAXIMUM 1/4 INCH IN WIDTH AND TO A MINIMUM DEPTH OF ONE–THIRD THE TOTAL THICKNESS.
10. 3 FOOT WIDE SIDEWALKS SHALL RECEIVE CONTRACTION JOINTS EVERY 4 FEET. 4 AND 5 FOOT WIDE SIDEWALKS SHALL RECEIVE CONTRACTION JOINTS EQUAL TO THE WIDTH OF THE SIDEWALK. SIDEWALKS MAY BE CONVENTIONALLY FORMED OR MACHINE FORMED.
11. ONLY MAGNESIUM FLOATS AND TROWELS ARE ALLOWED. THE USE OF ALUMINUM OR STEEL FINISHING TROWELS AND TOOLS IS PROHIBITED. THE CONCRETE SHALL BE FINISHED TO PRODUCE A SMOOTH SURFACE AND THEN LIGHTLY BROOMED TO A UNIFORM TEXTURE. THE EDGES AND SCORED JOINTS OF ALL SIDEWALK SLABS SHALL BE TOOLED WITH AN EDGING TOOL HAVING A 1/4 INCH RADIUS.
12. ALL WORK SHALL BE IN ACCORDANCE WITH NYSDOT SPECIFICATIONS AND IN REASONABLY CLOSE CONFORMITY WITH THE LINES AND GRADES SHOWN ON THE PLANS OR ESTABLISHED BY THE ENGINEER.
13. SIDEWALK SHALL BE PAID UNDER NYSDOT ITEM NO. 608.0101. CRUSHED STONE SHALL BE PAID UNDER NYSDOT ITEM NO. 623.12.

VILLAGE OF MAMARONECK STANDARD CONSTRUCTION DETAILS	CAST–IN–PLACE CONCRETE SIDEWALK	VILLAGE OF MAMARONECK, VILLAGE MUNICIPAL BUILDING, 169 MT. PLEASANT AVENUE (3RD FLOOR), WESTCHESTER COUNTY, VILLAGE OF MAMARONECK, NY 10543, PHONE: (914) 777–7731, FAX: (914) 777–7792	PROJECT: DETAILS; SCALE: NOT TO SCALE; DATE: 03/13/2014
PREPARED IN THE OFFICE OF THE VILLAGE ENGINEER	DESIGNED BY: ARC, PE; CHECKED BY: ARC, PE; DRAWN BY: ARC, PE; VOM PCC Sidewalk.dwg		SD-5D



PROFILE

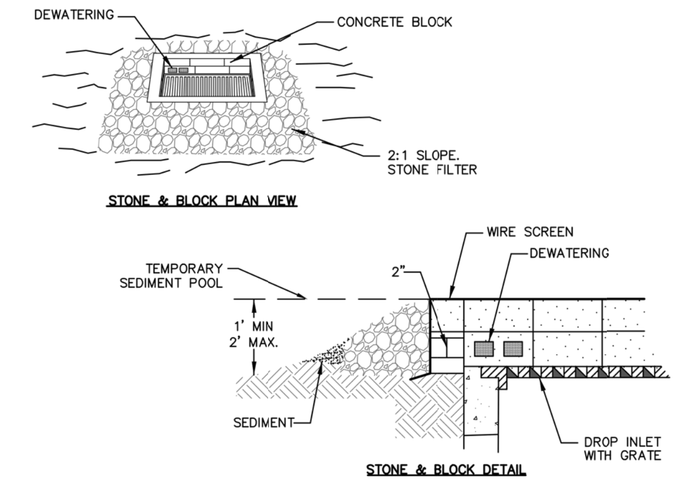
CONSTRUCTION SPECIFICATIONS:

1. USE 2" DIAMETER STONE OR RECLAIMED/RECYCLED CONCRETE EQUIVALENT.
2. RECOMMENDED LENGTH GREATER THAN 50 FEET WHERE PRACTICAL.
3. THICKNESS NOT LESS THAN 6 INCHES.
4. 10 FOOT MINIMUM WIDTH, BUT NOT LESS THAN FULL WIDTH AT POINTS WHERE INGRESS AND EGRESS OCCUR.
5. FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.

CONSTRUCTION SPECIFICATIONS:

6. ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WILL BE PERMITTED.
7. ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS–OF–WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS–OF–WAY MUST BE REMOVED IMMEDIATELY.
8. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED BY THE CONTRACTOR.
9. REMOVE STABILIZED CONSTRUCTION ENTRANCE PRIOR TO PLACEMENT OF BITUMINOUS CONCRETE PAVEMENT.

VILLAGE OF MAMARONECK STANDARD CONSTRUCTION DETAILS	STABILIZED CONSTRUCTION ENTRANCE	VILLAGE OF MAMARONECK, VILLAGE MUNICIPAL BUILDING, 169 MT. PLEASANT AVENUE (3RD FLOOR), WESTCHESTER COUNTY, VILLAGE OF MAMARONECK, NY 10543, PHONE: (914) 777–7731, FAX: (914) 777–7792	PROJECT: DETAILS; SCALE: NOT TO SCALE; DATE: 03/13/2014
PREPARED IN THE OFFICE OF THE VILLAGE ENGINEER	DESIGNED BY: ARC, PE; CHECKED BY: ARC, PE; DRAWN BY: ARC, PE; VOM Stabilized Construction Entr		SD-1C



STONE & BLOCK PLAN VIEW

STONE & BLOCK DETAIL

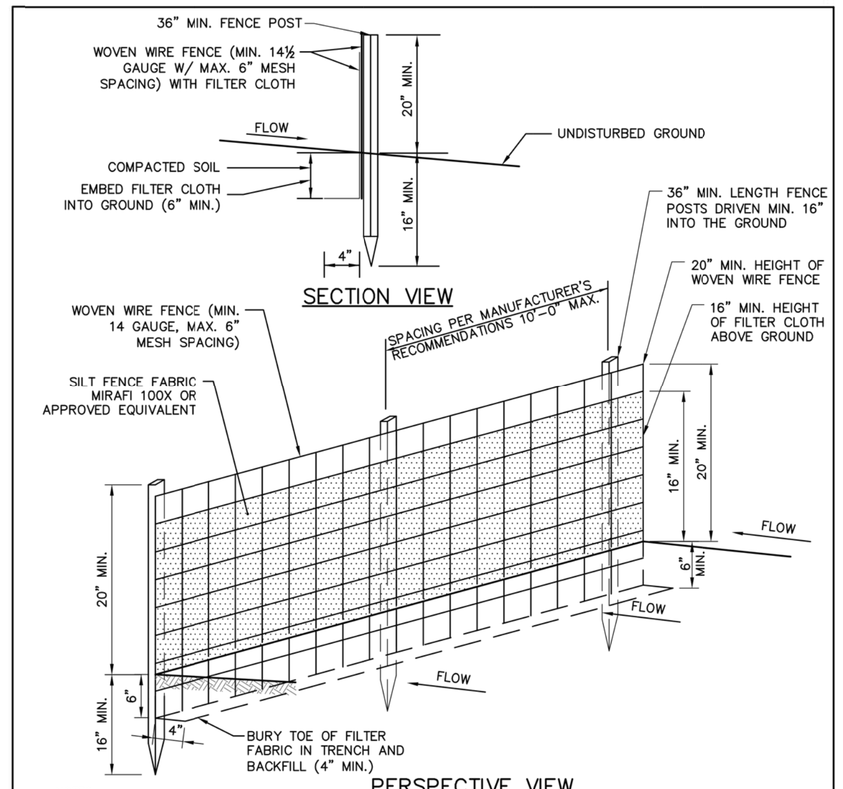
'DOUGHNUT' DETAIL

NOTES:

1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
2. HARDWARE CLOTH OR ½" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
3. USE CLEAN STONE OR GRAVEL ½ TO ¾ INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
4. FOR STONE STRUCTURES ONLY. A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS.

MAXIMUM DRAINAGE AREA 1 ACRE

VILLAGE OF MAMARONECK STANDARD CONSTRUCTION DETAILS	STONE AND BLOCK DRAIN INLET PROTECTION	VILLAGE OF MAMARONECK, VILLAGE MUNICIPAL BUILDING, 169 MT. PLEASANT AVENUE (3RD FLOOR), WESTCHESTER COUNTY, VILLAGE OF MAMARONECK, NY 10543, PHONE: (914) 777–7731, FAX: (914) 777–7792	PROJECT: DETAILS; SCALE: NOT TO SCALE; DATE: 03/13/2014
PREPARED IN THE OFFICE OF THE VILLAGE ENGINEER	DESIGNED BY: ARC, PE; CHECKED BY: ARC, PE; DRAWN BY: ARC, PE; VOM Stone & Block Inlet Protecti		SD-1G



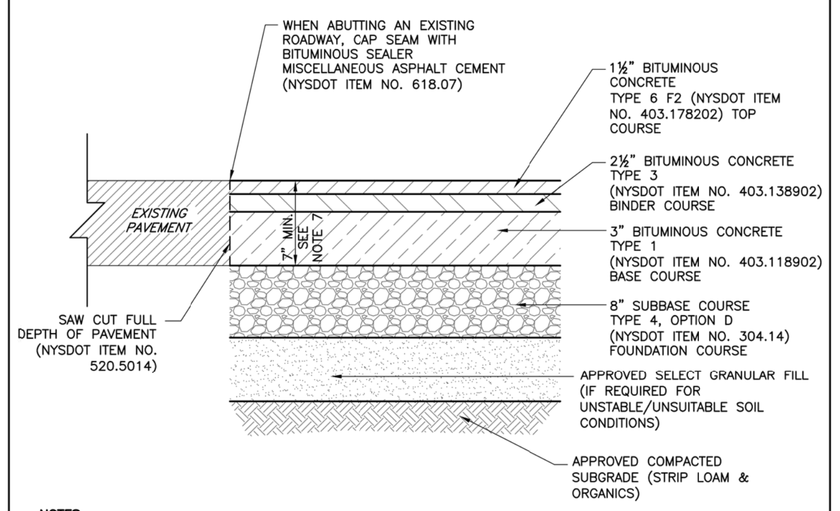
SECTION VIEW

PERSPECTIVE VIEW

NOTES:

1. WOVEN WIRE FENCE SHALL BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL, EITHER 'T' OR 'U' TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABLINKA T140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED AND REPLACED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
6. INSTALL FABRIC ON UPHILL SIDE OF SUPPORT POSTS.
7. SILT FENCE SHALL NOT BE USED IN DRAINAGE WAYS.

VILLAGE OF MAMARONECK STANDARD CONSTRUCTION DETAILS	SILT FENCE	VILLAGE OF MAMARONECK, VILLAGE MUNICIPAL BUILDING, 169 MT. PLEASANT AVENUE (3RD FLOOR), WESTCHESTER COUNTY, VILLAGE OF MAMARONECK, NY 10543, PHONE: (914) 777–7731, FAX: (914) 777–7792	PROJECT: DETAILS; SCALE: NOT TO SCALE; DATE: 03/13/2014
PREPARED IN THE OFFICE OF THE VILLAGE ENGINEER	DESIGNED BY: ARC, PE; CHECKED BY: ARC, PE; DRAWN BY: ARC, PE; VOM Silt Fence.dwg		SD-1A



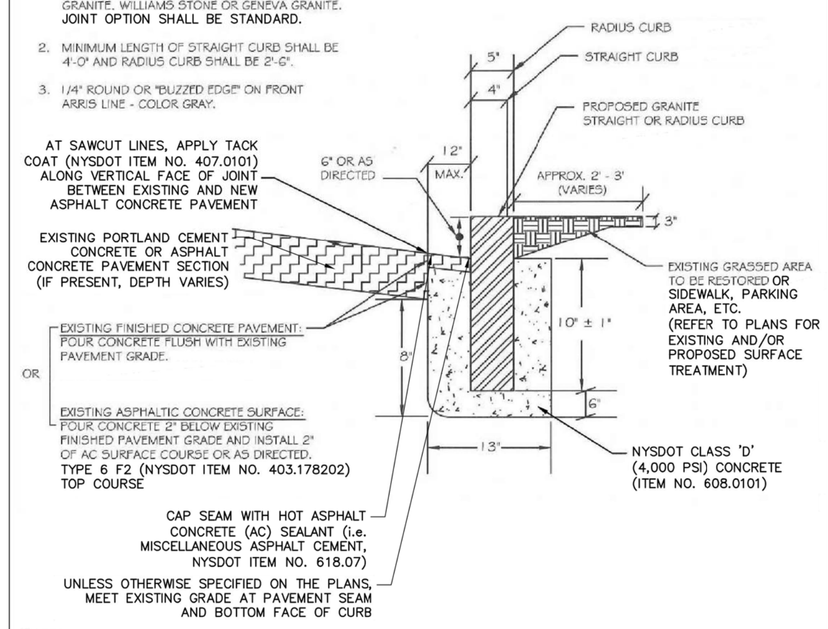
NOTES:

1. UNLESS OTHERWISE NOTED, BITUMINOUS CONCRETE SHALL MEET THE SPECIFICATIONS OUTLINED IN SECTION 403 OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, DATED MAY 1, 2008 WITH LATEST REVISIONS. NOTE, THIS SECTION IS NO LONGER INCLUDED IN THE NYSDOT STANDARD SPECIFICATIONS.
2. UNLESS OTHERWISE NOTED, SUBBASE COURSE SHALL MEET THE SPECIFICATIONS OUTLINED IN SECTION 300 OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, DATED MAY 1, 2008 WITH LATEST REVISIONS.
3. DETAIL DEPICTS COMPACTED PAVEMENT THICKNESS.
4. THIS DETAIL SHALL BE COORDINATED WITH THE VILLAGE STANDARD PIPE TRENCH AND ASPHALT PAVEMENT REPLACEMENT CONSTRUCTION DETAIL AND ALL OTHER PERTINENT VILLAGE STANDARD CONSTRUCTION DETAILS.
5. THIS ASPHALT CONCRETE PAVEMENT SECTION APPLIES ONLY TO LOCAL (i.e. VILLAGE) ROADS. PAVEMENT REPLACEMENT, REHABILITATION, CONSTRUCTION, ETC. FOR COUNTY AND STATE ROADWAYS SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE AGENCY HAVING JURISDICTION.
6. IF 403 HOT MIX ASPHALT (HMA) ITEM NUMBERS ARE UNAVAILABLE FROM THE ASPHALT PLANT, NYSDOT SUPERPAVE HMA 70 OR 80 SERIES COMPACTION SHALL BE SUBSTITUTED UPON REVIEW AND APPROVAL BY THE VILLAGE ENGINEER.
7. HOT MIX ASPHALT (HMA) PAVEMENT SHALL BE 7" MIN. THICK, OR MATCH EXISTING HMA PAVEMENT THICKNESS, WHICHEVER IS GREATER. IF EXISTING HMA PAVEMENT IS GREATER THAN 7", THE HMA DIFFERENCE SHALL CONSIST OF HMA BASE COURSE (OR BINDER COURSE FOR SMALL QUANTITIES)
8. THE VILLAGE ENGINEER RESERVES THE RIGHT TO MODIFY (e.g. INCREASE THICKNESS) THE PAVEMENT SECTION DUE TO SITE CONDITIONS (e.g. UNSUITABLE/UNSTABLE SUBGRADE, HIGH GROUNDWATER, ETC.).

VILLAGE OF MAMARONECK STANDARD CONSTRUCTION DETAILS	ASPHALT CONCRETE PAVEMENT (WITHIN RIGHT–OF–WAY)	VILLAGE OF MAMARONECK, VILLAGE MUNICIPAL BUILDING, 169 MT. PLEASANT AVENUE (3RD FLOOR), WESTCHESTER COUNTY, VILLAGE OF MAMARONECK, NY 10543, PHONE: (914) 777–7731, FAX: (914) 777–7792	PROJECT: DETAILS; SCALE: NOT TO SCALE; DATE: 03/13/2014; REV: 09/23/2014
PREPARED IN THE OFFICE OF THE VILLAGE ENGINEER	DESIGNED BY: ARC, PE; CHECKED BY: ARC, PE; DRAWN BY: ARC, PE; VOM Roadway Pavement Section		SD-6A

NOTES:

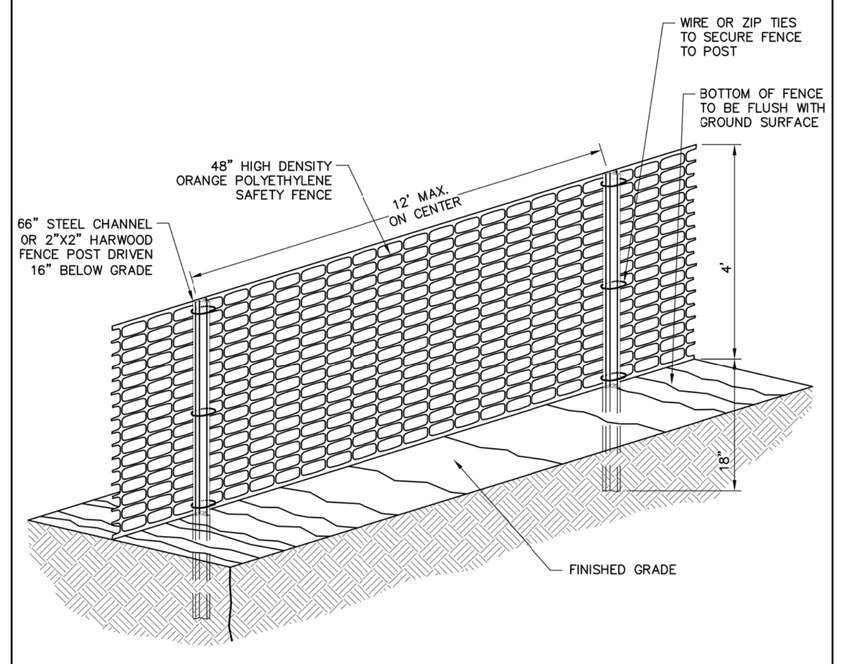
1. GRANITE CURB TO BE SPLIT FACE, SAWN TOP, EQUAL TO TYPE V4x16 FOR STRAIGHT CURB AND TYPE V5x16 FOR RADIUS CURB AS MANUFACTURED BY EITHER NORTH CAROLINA GRANITE, WILLIAMS STONE OR GENEVA GRANITE. JOINT OPTION SHALL BE STANDARD.
2. MINIMUM LENGTH OF STRAIGHT CURB SHALL BE 4'–0" AND RADIUS CURB SHALL BE 2'–0".
3. 1/4" ROUND OR "BUZZED EDGE" ON FRONT ARRIS LINE - COLOR GRAY.



NOTES:

1. UNLESS OTHERWISE NOTED, GRANITE CURB AND PORTLAND CEMENT CONCRETE CRADLE SHALL MEET THE SPECIFICATIONS OUTLINED IN SECTION 501, 609 AND SUBSECTION 700 OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, DATED JANUARY 9, 2014 WITH LATEST REVISIONS.
2. CURB SHALL CONFORM TO NYSDOT ITEM NO. 609.0201.
3. THE GENERAL CONSTRUCTION DETAILS FOR MANUFACTURING AND TRANSPORTING CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 501, PORTLAND CEMENT CONCRETE– GENERAL.
4. THE VERTICAL FACE OF THE COLD BUTT JOINT BETWEEN EXISTING AND PROPOSED PAVEMENT SHALL BE SEALED WITH TACK COAT AND THE SEAM SHALL BE SEALED WITH HOT AC SEALANT AS SHOWN ABOVE.

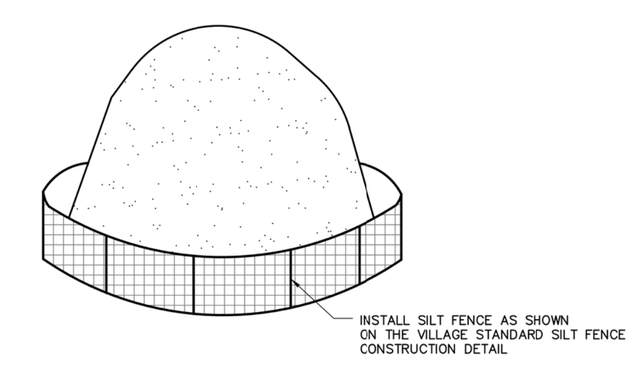
VILLAGE OF MAMARONECK STANDARD CONSTRUCTION DETAILS	GRANITE CURB	VILLAGE OF MAMARONECK, VILLAGE MUNICIPAL BUILDING, 169 MT. PLEASANT AVENUE (3RD FLOOR), WESTCHESTER COUNTY, VILLAGE OF MAMARONECK, NY 10543, PHONE: (914) 777–7731, FAX: (914) 777–7792	PROJECT: DETAILS; SCALE: NOT TO SCALE; DATE: 03/13/2014
PREPARED IN THE OFFICE OF THE VILLAGE ENGINEER	DESIGNED BY: ARC, PE; CHECKED BY: ARC, PE; DRAWN BY: ARC, PE; VOM Granite Curb.dwg		SD-5B



NOTES:

1. MAINTAIN TENSION ACROSS FULL HEIGHT AND LENGTH OF FENCE.
2. PROVIDE PERIODIC INSPECTION AND MAINTENANCE OF FENCE.
3. FENCE SHALL BE HIGH DENSITY ORANGE POLYETHYLENE SAFETY FENCE AS MANUFACTURED BY EROSION RUNNER® OR APPROVED EQUAL.

VILLAGE OF MAMARONECK STANDARD CONSTRUCTION DETAILS	CONSTRUCTION FENCE	VILLAGE OF MAMARONECK, VILLAGE MUNICIPAL BUILDING, 169 MT. PLEASANT AVENUE (3RD FLOOR), WESTCHESTER COUNTY, VILLAGE OF MAMARONECK, NY 10543, PHONE: (914) 777–7731, FAX: (914) 777–7792	PROJECT: DETAILS; SCALE: NOT TO SCALE; DATE: 03/13/2014
PREPARED IN THE OFFICE OF THE VILLAGE ENGINEER	DESIGNED BY: ARC, PE; CHECKED BY: ARC, PE; DRAWN BY: ARC, PE; VOM Construction Fence.dwg		SD-1B



NOTES:

1. ALL STOCKPILES SHALL BE SURROUNDED BY SILT FENCING.
2. STOCKPILES SHALL HAVE A MAXIMUM 2:1 (H:V) SIDE SLOPE.
3. REPAIR/OR REPLACE ANY SILT FENCING DAMAGED DUE TO CONSTRUCTION ACTIVITIES OR STOCKPILE MITIGATION.
4. STOCKPILE SHALL BE LOCATED IN AREAS AS SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER.

VILLAGE OF MAMARONECK STANDARD CONSTRUCTION DETAILS	TEMPORARY SOIL/MATERIAL STOCKPILE AREA	VILLAGE OF MAMARONECK, VILLAGE MUNICIPAL BUILDING, 169 MT. PLEASANT AVENUE (3RD FLOOR), WESTCHESTER COUNTY, VILLAGE OF MAMARONECK, NY 10543, PHONE: (914) 777–7731, FAX: (914) 777–7792	PROJECT: DETAILS; SCALE: NOT TO SCALE; DATE: 03/13/2014
PREPARED IN THE OFFICE OF THE VILLAGE ENGINEER	DESIGNED BY: ARC, PE; CHECKED BY: ARC, PE; DRAWN BY: ARC, PE; VOM Temporary Stockpile Area.dw		SD-1H

ANY ALTERATIONS OR REVISIONS OF THESE PLANS, UNLESS DONE BY OR UNDER THE DIRECTION OF THE NYS LICENSED AND REGISTERED ENGINEER THAT PREPARED THEM, IS A VIOLATION OF THE NYS EDUCATION LAW.

No.	Revisions	Date
1.	REVISED PER TOWN COMMENTS	9-27-18

THIS PLAN NOT VALID FOR CONSTRUCTION WITHOUT ENGINEER'S SEAL & SIGNATURE

PROJECT:

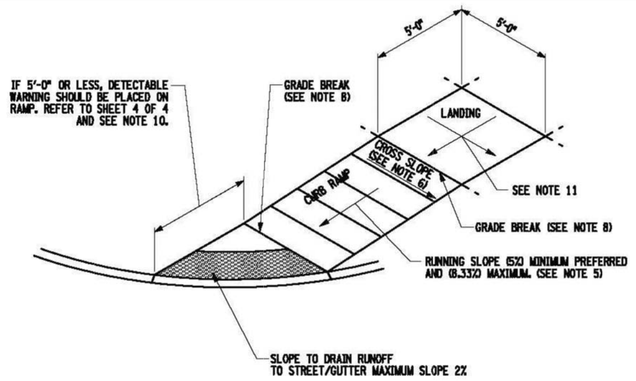
SELF STORAGE BUILDING ADDITION
560 FENIMORE ROAD
VILLAGE OF MAMARONECK
WESTCHESTER COUNTY – NEW YORK

SITE DETAILS

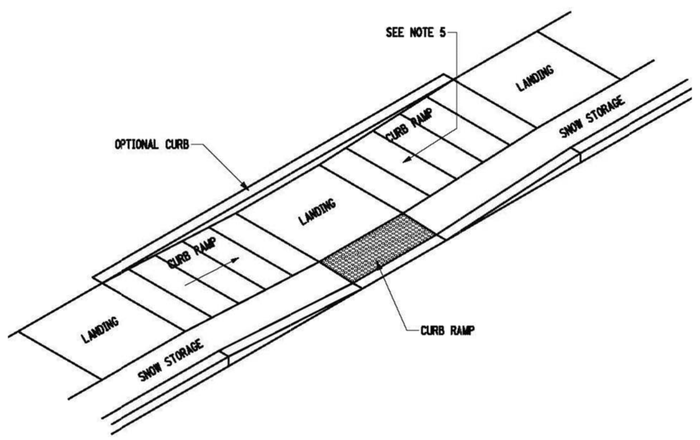
STATE OF NEW YORK · MICHAEL F. SHAW · No. 80831 · LICENSED PROFESSIONAL ENGINEER

HEC HUDSON ENGINEERING & CONSULTING, P.C.
45 Knollwood Road - Suite 201
Elmsford, New York 10523
T: 914-909-0420
F: 914-560-2086
© 2018

Date:	2/8/18
Scale:	1" = 20'
Designed By:	D.C.
Checked By:	M.S.
Sheet No.	C-5
Sheet:	5 of 7

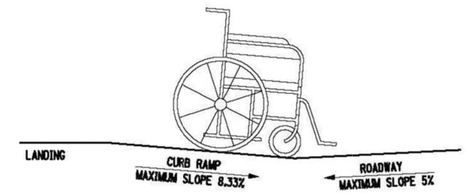


CURB RAMP WITHOUT SIDE FLARES
TYPICAL DIMENSIONING



MID-BLOCK CROSSING CURB RAMP
TYPICAL DIMENSIONING

VILLAGE OF MAMARONECK STANDARD CONSTRUCTION DETAILS	SIDEWALK CURB RAMPS (SHEET 1 OF 8)	VILLAGE OF MAMARONECK, VILLAGE MUNICIPAL BUILDING, 169 MT. PLEASANT AVENUE (3RD FLOOR), WESTCHESTER COUNTY, VILLAGE OF MAMARONECK, NY 10543, PHONE: (914) 777-7731, FAX: (914) 777-7792	PROJECT: DETAILS, SCALE:NOT TO SCALE, DATE: 03/13/2014
PREPARED IN THE OFFICE OF THE VILLAGE ENGINEER	DESIGNED BY: ARC, PE; CHECKED BY: ARC, PE; DRAWN BY: ARC, PE; VGM NYSDOT Sidewalk Curb Ramp		SD-5H



NOTE: THE COUNTER SLOPE OF THE GUTTER OR STREET AT THE FOOT OF A CURB RAMP, LANDING, OR BLENDED TRANSITION SHALL BE 5% MAXIMUM

COUNTER SLOPE CONDITIONS

GENERAL NOTES:

1. THE DIMENSIONS AND SLOPES PRESENTED IN THE DETAILS ARE THE MINIMUM NECESSARY TO COMPLY WITH THE ADA AND DOT STANDARDS. ANY DEVIATION LESS THAN THE MINIMUM WIDTH OR GREATER THAN THE MAXIMUM SLOPE FROM THESE STANDARDS MUST BE DOCUMENTED WITH THE STANDARDS BEING MET TO THE GREATEST EXTENT PRACTICABLE AND CONSISTENT WITH THE MOST CURRENT ADAAG.
2. CURB RAMPS, LANDINGS AND BLENDED TRANSITIONS MAY REQUIRE THE USE OF DETECTABLE WARNINGS. DETECTABLE WARNINGS ON THIS SHEET ARE SHOWN FOR ILLUSTRATION ONLY. REFER TO THE DETECTABLE WARNING DETAILS ON SHEET 4 OF 4 FOR DETAILS ON PLACEMENT, ORIENTATION & DIMENSIONS. REFER TO CHAPTER 18 OF THE HIGHWAY DESIGN MANUAL FOR MORE INFORMATION.

CURB RAMP NOTES:

3. THE MINIMUM WIDTH FOR SIDEWALK CURB RAMPS IS 5'-0".
4. THE RUNNING SLOPE OF A CURB RAMP SHALL BE 1:20 (5%) MINIMUM (PREFERRED) AND 1:12 (8.33%) MAXIMUM.
5. WHERE THE SLOPE OF THE ROADWAY EXCEEDS 8.33% THE CURB RAMP LENGTH IS THE LENGTH NECESSARY TO MEET THE EXISTING SIDEWALK. IT IS NOT NECESSARY THAT THE RAMP LENGTH EXCEED 15'-0".
6. THE CROSS SLOPE OF CURB RAMPS SHOULD BE AS FLAT AS POSSIBLE, NOT TO EXCEED 1:50 (2%). THE CROSS SLOPE AT MIDBLOCK CROSSINGS MAY BE WARPED TO MEET STREET OR HIGHWAY GRADE.
7. THE VERTICAL ALIGNMENT OF A CURB RAMP, EXCLUDING THE FLARES, SHALL BE PLANAR. GRADE BREAKS SHALL BE FLUSH AND PERPENDICULAR TO THE DIRECTION OF THE RAMP RUN.
8. RAMP TRANSITIONS BETWEEN WALKS, LANDINGS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT VERTICAL CHANGES (1/4" MAX).
9. WHERE A PEDESTRIAN CIRCULATION PATH CROSSES THE CURB RAMP, FLARED SIDES WITH A SLOPE OF 10% MAXIMUM, MEASURED PARALLEL TO THE CURB LINE, SHALL BE PROVIDED.

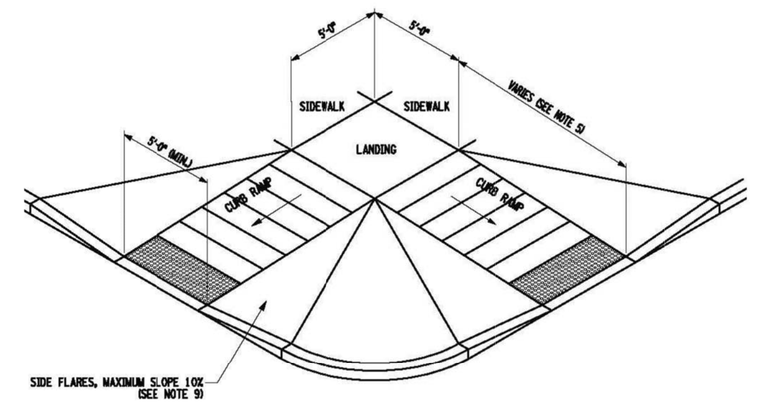
LANDING NOTES:

10. LANDINGS SHALL HAVE A MINIMUM CLEAR DIMENSION OF A 5'-0" BY 5'-0" EXCEPT AT THE BOTTOM OF RAMPS TYPE 1 & 2 ON SHEET 2 OF 4.
11. THE RUNNING AND CROSS SLOPES ON LANDINGS AT INTERSECTIONS IS 1:50 (2%) MAXIMUM. THE RUNNING AND CROSS SLOPES AT MIDBLOCK CROSSINGS MAY BE WARPED TO MEET STREET OR HIGHWAY GRADE.

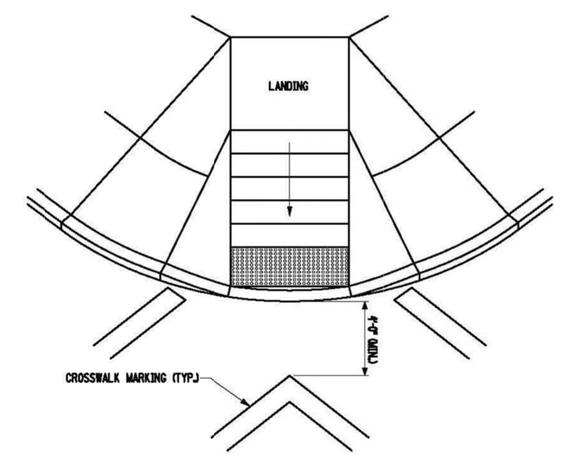
NOTES:

1. FOR DIMENSIONS & GEOMETRIC VALUES REFER TO SHEET 1 OF 4.
2. THE CONFIGURATIONS SHOWN GENERICALLY REPRESENT THE MOST COMMON SITUATIONS ENCOUNTERED ON NYSDOT PROJECTS. THEY ARE INTENDED TO PRESENT CURB RAMP DESIGN CONCEPTS. SITE CONDITIONS AT INDIVIDUAL LOCATIONS REQUIRE SPECIFIC DESIGNS. CURB RAMP DESIGNS MUST BE CONSISTENT WITH THE PROVISIONS OF SHEETS 1, 2, AND 3 OF 4. REFER TO REGIONAL LANDSCAPE ARCHITECT FOR ADDITIONAL DESIGN GUIDANCE.
3. COORDINATE TRAFFIC CONTROL DEVICES, UTILITY LOCATIONS, SIGNS, STREET FURNITURE AND DRAINAGE TO ENSURE A CONTINUOUS PEDESTRIAN ACCESS ROUTE AT ALL CURB RAMP LOCATIONS. GUIDANCE FOR CROSSWALK MARKINGS AND TRAFFIC CONTROL DEVICES IS PROVIDED IN THE MUTCD.
4. DETECTABLE WARNINGS SHOWN ON THIS SHEET ARE FOR ILLUSTRATION ONLY. FOR SPECIFIC PLACEMENT ORIENTATIONS AND DIMENSIONS REFER TO SHEET 4 OF 4. SEE NOTE 10.
5. THE CROSS SLOPE OF RAMPS AND/OR LANDINGS AT MID BLOCK CROSSINGS MAY BE WARPED TO MEET STREET OR HIGHWAY GRADE.
6. USE TYPE 8 ONLY WHERE OTHER RAMPS ARE UNUSABLE. SINGLE DIAGONAL OR DEPRESSED CORNER CURB RAMPS SERVING TWO STREET CROSSING DIRECTIONS SHOULD BE AVOIDED IN NEW CONSTRUCTION AND SHOULD ONLY BE CONSIDERED WHERE CONDITIONS REQUIRE THEIR USE.
7. GRATES SHALL NOT BE LOCATED ON CURB RAMPS, BLENDED TRANSITIONS OR LANDINGS. ACCESS COVERS OF SIMILAR SURFACES SHALL COMPLY WITH APPLICABLE SURFACE REQUIREMENTS.
8. UTILITIES, SIGNS, AND OTHER FIXED OBJECTS MAY NOT BE PLACED ON A CURB, OR IN A MANNER THAT INTERFERES WITH THE USE OF THE CURB RAMP.
9. THE SURFACE OF ALL CURB RAMPS SHALL BE STABLE, FIRM AND SLIP RESISTANT. A COARSE BROOM FINISH RUNNING PERPENDICULAR TO THE SLOPE IS RECOMMENDED ON CONCRETE RAMP SURFACES, EXCLUSIVE OF THE DETECTABLE WARNING FIELDS.
10. THERE SHALL BE A LANDING AT THE TOP OF EACH PERPENDICULAR CURB RAMP AND A LANDING AT THE BOTTOM OF RAMPS TYPE 1 & 2 ON SHEET 2 OF 4.
11. LANDINGS MAY OVERLAP WITH ADJACENT LANDINGS OR A SINGLE LANDING MAY SERVE MULTIPLE CURB RAMPS.
12. LANDINGS MAY OVERLAP WITH THE CLEAR GROUND SPACE REQUIRED AT PEDESTRIAN SIGNAL PUSH BUTTONS.

VILLAGE OF MAMARONECK STANDARD CONSTRUCTION DETAILS	SIDEWALK CURB RAMPS (SHEET 2 OF 8)	VILLAGE OF MAMARONECK, VILLAGE MUNICIPAL BUILDING, 169 MT. PLEASANT AVENUE (3RD FLOOR), WESTCHESTER COUNTY, VILLAGE OF MAMARONECK, NY 10543, PHONE: (914) 777-7731, FAX: (914) 777-7792	PROJECT: DETAILS, SCALE:NOT TO SCALE, DATE: 03/13/2014
PREPARED IN THE OFFICE OF THE VILLAGE ENGINEER	DESIGNED BY: ARC, PE; CHECKED BY: ARC, PE; DRAWN BY: ARC, PE; VGM NYSDOT Sidewalk Curb Ramp		SD-5H

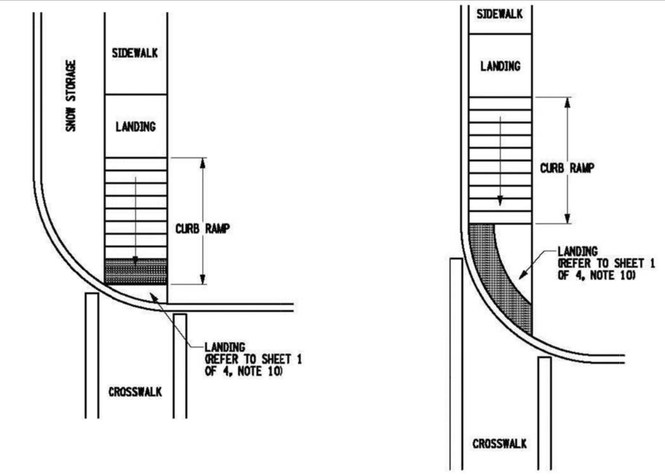


CURB RAMP WITH SIDE FLARES
TYPICAL DIMENSIONING



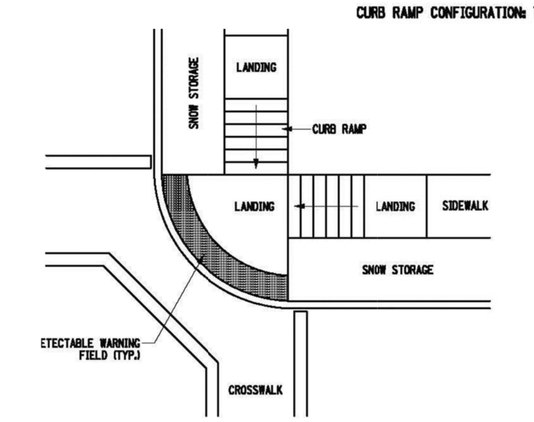
DIAGONAL SIDEWALK CURB RAMP

VILLAGE OF MAMARONECK STANDARD CONSTRUCTION DETAILS	SIDEWALK CURB RAMPS (SHEET 3 OF 8)	VILLAGE OF MAMARONECK, VILLAGE MUNICIPAL BUILDING, 169 MT. PLEASANT AVENUE (3RD FLOOR), WESTCHESTER COUNTY, VILLAGE OF MAMARONECK, NY 10543, PHONE: (914) 777-7731, FAX: (914) 777-7792	PROJECT: DETAILS, SCALE:NOT TO SCALE, DATE: 03/13/2014
PREPARED IN THE OFFICE OF THE VILLAGE ENGINEER	DESIGNED BY: ARC, PE; CHECKED BY: ARC, PE; DRAWN BY: ARC, PE; VGM NYSDOT Sidewalk Curb Ramp		SD-5H



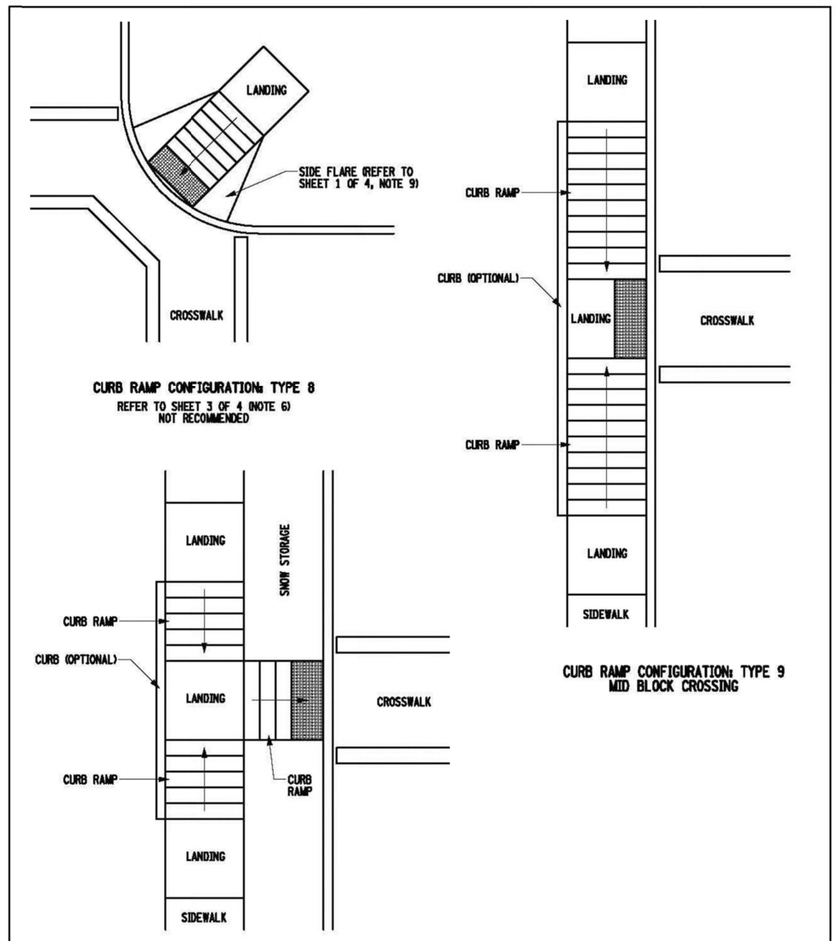
CURB RAMP CONFIGURATION: TYPE 1

CURB RAMP CONFIGURATION: TYPE 2



CURB RAMP CONFIGURATION: TYPE 3

VILLAGE OF MAMARONECK STANDARD CONSTRUCTION DETAILS	SIDEWALK CURB RAMPS (SHEET 4 OF 8)	VILLAGE OF MAMARONECK, VILLAGE MUNICIPAL BUILDING, 169 MT. PLEASANT AVENUE (3RD FLOOR), WESTCHESTER COUNTY, VILLAGE OF MAMARONECK, NY 10543, PHONE: (914) 777-7731, FAX: (914) 777-7792	PROJECT: DETAILS, SCALE:NOT TO SCALE, DATE: 03/13/2014
PREPARED IN THE OFFICE OF THE VILLAGE ENGINEER	DESIGNED BY: ARC, PE; CHECKED BY: ARC, PE; DRAWN BY: ARC, PE; VGM NYSDOT Sidewalk Curb Ramp		SD-5H

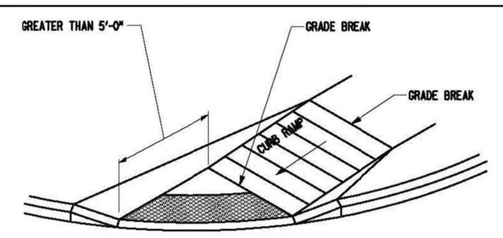


CURB RAMP CONFIGURATION: TYPE 8
REFER TO SHEET 3 OF 4 (NOTE 6)
NOT RECOMMENDED

CURB RAMP CONFIGURATION: TYPE 9
MID BLOCK CROSSING

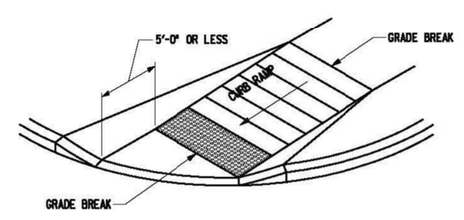
CURB RAMP CONFIGURATION: TYPE 10
MID BLOCK CROSSING

VILLAGE OF MAMARONECK STANDARD CONSTRUCTION DETAILS	SIDEWALK CURB RAMPS (SHEET 7 OF 8)	VILLAGE OF MAMARONECK, VILLAGE MUNICIPAL BUILDING, 169 MT. PLEASANT AVENUE (3RD FLOOR), WESTCHESTER COUNTY, VILLAGE OF MAMARONECK, NY 10543, PHONE: (914) 777-7731, FAX: (914) 777-7792	PROJECT: DETAILS, SCALE:NOT TO SCALE, DATE: 03/13/2014
PREPARED IN THE OFFICE OF THE VILLAGE ENGINEER	DESIGNED BY: ARC, PE; CHECKED BY: ARC, PE; DRAWN BY: ARC, PE; VGM NYSDOT Sidewalk Curb Ramp		SD-5H



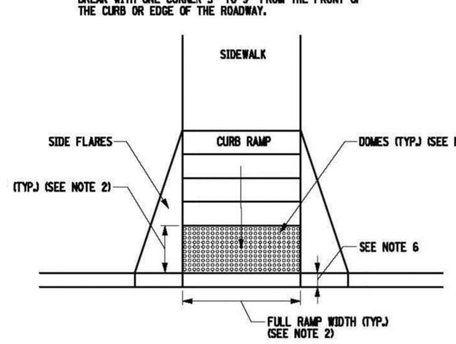
DETECTABLE WARNING PLACEMENT DETAIL 1

NOTE: IF THE DISTANCE FROM THE GRADE BREAK IS GREATER THAN OR EQUAL TO 5'-0", DETECTABLE WARNINGS SHOULD BE PLACED ALONG THE RADIUS OF THE CURVE AS SHOWN IN THE ABOVE DETAIL.



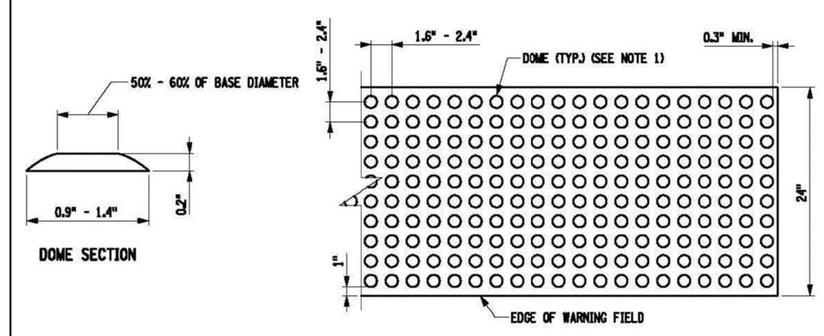
DETECTABLE WARNING PLACEMENT DETAIL 2

NOTE: IF THE DISTANCE FROM THE GRADE BREAK IS LESS THAN OR EQUAL TO 5'-0", DETECTABLE WARNINGS SHOULD BE PLACED ON THE CURB RAMP ALONG THE BOTTOM GRADE BREAK WITH ONE CORNER 5" TO 9" FROM THE FRONT OF THE CURB OR EDGE OF THE ROADWAY.



DETECTABLE WARNING AT CURB RAMP

VILLAGE OF MAMARONECK STANDARD CONSTRUCTION DETAILS	DETECTABLE WARNING PLACEMENT (SHEET 1 OF 3)	VILLAGE OF MAMARONECK, VILLAGE MUNICIPAL BUILDING, 169 MT. PLEASANT AVENUE (3RD FLOOR), WESTCHESTER COUNTY, VILLAGE OF MAMARONECK, NY 10543, PHONE: (914) 777-7731, FAX: (914) 777-7792	PROJECT: DETAILS, SCALE:NOT TO SCALE, DATE: 03/13/2014
PREPARED IN THE OFFICE OF THE VILLAGE ENGINEER	DESIGNED BY: ARC, PE; CHECKED BY: ARC, PE; DRAWN BY: ARC, PE; VGM Detectable Warning Unit.dwg		SD-5I



NOTES:

1. THE DETAILS PROVIDED ARE NOT DRAWN TO SCALE. THE QUANTITY OF DOMES DEPICTED ON THE DETECTABLE WARNING UNIT (THE DOMES AND THE ENTIRE 24" LEVEL SURFACE) IS FOR ILLUSTRATION ONLY.

DETECTABLE WARNING UNIT DIMENSIONS:

2. THE SIZE OF THE DETECTABLE WARNING FIELD SHALL BE 24" IN THE DIRECTION OF TRAVEL AND SHALL EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE, EXCLUSIVE OF SIDE FLARES.

DOME ALIGNMENT:

3. THE ROWS OF DOMES SHALL BE ALIGNED TO BE PERPENDICULAR OR RADIAL TO THE GRADE BREAK BETWEEN THE RAMP LANDING OR CURB RAMP AND THE STREET.
4. WHERE DOMES ARE ARRAYED RADIALLY THEY MAY DIFFER IN DOME DIAMETER AND CENTER-TO-CENTER SPACING WITHIN THE RANGES SPECIFIED ON THIS SHEET.

COLOR REQUIREMENTS:

5. THE DETECTABLE WARNING FIELD SHALL BE THE COLOR SPECIFIED IN THE CONTRACT DOCUMENTS OR MEET THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

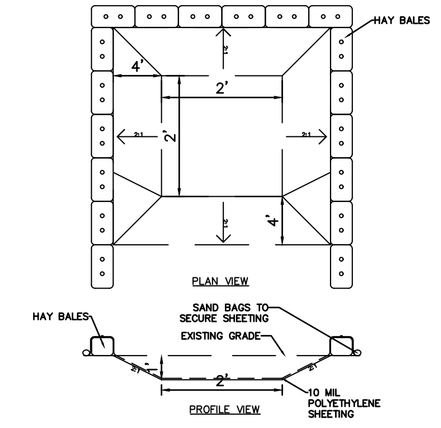
DETECTABLE WARNINGS LOCATION:

6. DETECTABLE WARNINGS SHALL BE LOCATED SO THAT THE EDGE OR CORNER OF THE WARNING FIELD NEAREST TO THE ROADWAY IS 5" TO 9" FROM THE FRONT OF THE CURB OR THE ROADWAY EDGE (12" WHERE TRAVERSABLE CURB IS USED).
7. THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 6'-0" MINIMUM AND 15'-0" MAXIMUM FROM THE CENTERLINE OF THE NEAREST RAIL.

NOTES:

1. DETECTABLE WARNINGS SHALL BE INSTALLED ON ALL CURB RAMPS. DETECTABLE WARNINGS SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 INCHES (23 mm), A HEIGHT OF NOMINAL 0.2 INCHES (5 mm), AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 INCHES (60 mm) AND SHALL CONTRACT VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. DETECTABLE WARNINGS SHALL BE IN ACCORDANCE WITH THE DEPARTMENT OF JUSTICE 28 CFR PART 36 "EXCERPT FROM 28 CFR PART 36: ADA STANDARDS FOR ACCESSIBLE DESIGN" LAST REVISED JULY 1, 1994.
2. DETECTABLE WARNING SYSTEM SHALL BE CAST-IN-PLACE TRUNCATED DOMES PART NUMBER ATS-C-2x5 MANUFACTURED BY ADVANTAGE™ TACTILE SYSTEMS OR APPROVED EQUAL. THE COLOR OF THE DETECTABLE WARNING SYSTEM SHALL BE BRICK RED (FEDERAL COLOR NO. 22144).
3. DETECTABLE WARNING UNITS SHALL BE PAID UNDER NYSDOT ITEM NO. 608.21.

VILLAGE OF MAMARONECK STANDARD CONSTRUCTION DETAILS	DETECTABLE WARNING PLACEMENT (SHEET 3 OF 3)	VILLAGE OF MAMARONECK, VILLAGE MUNICIPAL BUILDING, 169 MT. PLEASANT AVENUE (3RD FLOOR), WESTCHESTER COUNTY, VILLAGE OF MAMARONECK, NY 10543, PHONE: (914) 777-7731, FAX: (914) 777-7792	PROJECT: DETAILS, SCALE:NOT TO SCALE, DATE: 03/13/2014
PREPARED IN THE OFFICE OF THE VILLAGE ENGINEER	DESIGNED BY: ARC, PE; CHECKED BY: ARC, PE; DRAWN BY: ARC, PE; VGM Detectable Warning Unit.dwg		SD-5I



CLEANOUT WASHOUT AREA

CONCRETE WASHOUT AREA NOTES:

1. CONCRETE WASHOUT AREA TO BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE. CONCRETE WASHOUT AREA TO BE ENTIRELY SELF CONTAINED
2. HAY BALES SHALL BE PROVIDED AROUND THE PERIMETER OF CONCRETE WASHOUT AREA FOR CONTAINMENT.
3. WASHOUT AREA SHALL BE LINED WITH PLASTIC SHEETING NO THINNER THAN 10 MILS. SHEETING SHALL HAVE NO HOLES OR TEARS AND SHALL BE ANCHORED BY SAND BAGS ON ALL SIDES EXCEPT ACCESS SIDE. PLASTIC LINING TO BE REPLACED WITH EACH CLEANING
4. SIGNS SHALL BE PROVIDED AT THE CONSTRUCTION ENTRANCE AND CONCRETE AREAS INDICATING LOCATION OF WASHOUT AREA.
5. WASHOUT AREA TO BE ENCLOSED IN CONSTRUCTION FENCE.
6. WASHOUT AREAS TO BE INSPECTED DAILY TO ENSURE LINER IS INTACT AND ADEQUATE CAPACITY IS AVAILABLE AT ALL TIMES. WASHOUT AREAS SHALL BE INSPECTED IMMEDIATELY AFTER HEAVIER RAINS. DAMAGED OR LEAKING WASHOUT AREAS TO BE DEACTIVATED AND REPAIRED IMMEDIATELY.
7. CONCRETE WASTE SHALL BE REMOVED AND DISPOSED OF ONCE IT REACHES THREE-QUARTERS OF THE WASHOUT AREA'S HEIGHT. ALL WASTE SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH APPLICABLE LAWS, REGULATIONS, AND GUIDELINES OF MUNICIPALITY.

No.	Revisions Description	Date
1.	REVISED PER TOWN COMMENTS	9-27-18

THIS PLAN NOT VALID FOR CONSTRUCTION WITHOUT ENGINEER'S SEAL & SIGNATURE

PROJECT:

SELF STORAGE BUILDING ADDITION
560 FENIMORE ROAD
VILLAGE OF MAMARONECK
WESTCHESTER COUNTY – NEW YORK

SITE DETAILS

HEC

HUDSON ENGINEERING & CONSULTING, P.C.
45 Knollwood Road - Suite 201
Elmsford, New York 10523
T: 914-909-0420
F: 914-560-2086

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STATE OF NEW YORK · MICHAEL S. STEIN · No. 80637 · LICENSED PROFESSIONAL ENGINEER

Date:	2/8/18
Scale:	1" = 20'
Designed By:	D.C.
Checked By:	M.S.
Sheet No.	C-6
Sheet:	6 / 7

ANY ALTERATIONS OR REVISIONS OF THESE PLANS, UNLESS DONE BY OR UNDER THE DIRECTION OF THE NYS LICENSED AND REGISTERED ENGINEER THAT PREPARED THEM, IS A VIOLATION OF THE NYS EDUCATION LAW.

CONSTRUCTION PHASE:

DURING THE CONSTRUCTION PHASE OF THE PROJECT, A SEDIMENT AND EROSION CONTROL PLAN SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION'S BEST MANAGEMENT PRACTICES (BMP). THE PRIMARY GOALS OF THE SEDIMENT AND EROSION CONTROL PLAN ARE TO PREVENT THE TRACKING OF DIRT AND MUD ONTO ADJACENT ROADS, TO PREVENT MUD AND SILT FROM ENTERING INTO EXISTING AND PROPOSED DRAINAGE FACILITIES, AND TO PROTECT THE RECEIVING WATERS FROM CONTAMINATION DURING THE CONSTRUCTION.

DURING CONSTRUCTION, THE PARTY RESPONSIBLE FOR IMPLEMENTING THE TEMPORARY (DURING CONSTRUCTION) STORMWATER MANAGEMENT FACILITIES MAINTENANCE PROGRAM WILL BE THE OWNER. THE NAME AND CONTACT INFORMATION WILL BE FILED WITH THE VILLAGE OF CARMEL AND THE NYSDEC AT THE TIME OF THE PRECONSTRUCTION MEETING.

A NEW YORK STATE PROFESSIONAL ENGINEER OR CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (P.E. OR CPESC) SHALL CONDUCT AN ASSESSMENT OF THE SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND CERTIFY IN AN INSPECTION REPORT THAT THE APPROPRIATE EROSION AND SEDIMENT CONTROLS SHOWN ON THE PLAN HAVE BEEN ADEQUATELY INSTALLED AND/OR IMPLEMENTED TO ENSURE OVERALL PREPAREDNESS OF THE SITE FOR CONSTRUCTION. FOLLOWING THE COMMENCEMENT OF CONSTRUCTION, SITE INSPECTIONS SHALL BE CONDUCTED BY THE P.E. OR CPESC AT LEAST EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER.

DURING EACH INSPECTION, THE REPRESENTATIVE SHALL RECORD THE FOLLOWING:

1. ON A SITE MAP, INDICATE THE EXTENT OF ALL DISTURBED SITE AREAS AND DRAINAGE PATHWAYS. INDICATE SITE AREAS THAT ARE EXPECTED TO UNDERGO INITIAL DISTURBANCE OR SIGNIFICANT SITE WORK WITHIN THE NEXT 14-DAY PERIOD;
2. INDICATE ON A SITE MAP ALL AREAS OF THE SITE THAT HAVE UNDERGONE TEMPORARY OR PERMANENT STABILIZATION;
3. INDICATE ALL DISTURBED SITE AREAS THAT HAVE NOT UNDERGONE ACTIVE SITE WORK DURING THE PREVIOUS 14-DAY PERIOD;
4. INSPECT ALL SEDIMENT CONTROL PRACTICES AND RECORD APPROXIMATE DEGREE OF SEDIMENT ACCUMULATION AS A PERCENTAGE OF THE SEDIMENT STORAGE VOLUME;
5. INSPECT ALL EROSION AND SEDIMENT CONTROL PRACTICES AND RECORD ALL MAINTENANCE REQUIREMENTS. IDENTIFY ANY EVIDENCE OF RILL OR GULLY EROSION OCCURRING ON SLOPES AND ANY LOSS OF STABILIZING VEGETATION OR SEEDING/MULCHING. DOCUMENT ANY EXCESSIVE DEPOSITION OF SEDIMENT OR PONDING WATER ALONG THE BARRIER. RECORD THE DEPTH OF SEDIMENT WITHIN CONTAINMENT STRUCTURES AND ANY EROSION NEAR OUTLET AND OVERFLOW STRUCTURES.
6. ALL IDENTIFIED DEFICIENCIES.

THE P.E. OR CPESC SHALL MAINTAIN A RECORD OF ALL INSPECTION REPORTS IN A SITE LOGBOOK. THE SITE LOGBOOK SHALL BE MAINTAINED ON-SITE AND BE MADE AVAILABLE TO THE VILLAGE OF BRIARCLIFF MANOR AND THE NYSDEC. A SUMMARY OF THE SITE INSPECTION ACTIVITIES SHALL BE POSTED ON A MONTHLY BASIS IN A PUBLICLY ACCESSIBLE LOCATION AT THE SITE.

THE PROJECTS ANTICIPATED START DATE IS SEPTEMBER 2017 AND THE ANTICIPATED COMPLETION DATE IS ESTIMATED TO OCCUR IN SEPTEMBER APRIL 2018.

CONSTRUCTION SEQUENCING:

THE FOLLOWING EROSION CONTROL SCHEDULE SHALL BE UTILIZED:

1. INSTALL CONSTRUCTION ENTRANCE TO THE DEVELOPMENT AREA.
2. ESTABLISH CONSTRUCTION STAGING AREA.
3. INSTALL TREE PROTECTION ON TREES AS NOTED ON PLANS.
4. SELECTIVE VEGETATION REMOVAL FOR SILT FENCE INSTALLATION.
5. INSTALL SILT FENCE DOWN SLOPE OF ALL AREAS TO BE DISTURBED AS SHOWN ON THE PLAN.
6. REMOVE TREES WHERE NECESSARY (CLEAR & GRUB) FOR THE PROPOSED CONSTRUCTION.
7. STRIP TOPSOIL AND STOCKPILE AT THE LOCATIONS SPECIFIED ON THE PLANS (UP GRADIENT OF EROSION CONTROL MEASURES). TEMPORARILY STABILIZE TOPSOIL STOCKPILES (HYDROSEED DURING MAY 1ST THROUGH OCTOBER 31ST PLANTING SEASON OR BY COVERING WITH A TARPAULIN(S) NOVEMBER 1ST THROUGH APRIL 30TH. INSTALL SILT FENCE AROUND TOE OF SLOPE.
8. DEMOLISH ANY EXISTING SITE FEATURES AND/OR STRUCTURES NOTED AS BEING REMOVED ON THE CONSTRUCTION DOCUMENTS, AND DISPOSE OF OFF-SITE.
9. ROUGH GRADE SITE.
10. INSTALL ADDITIONAL SILT FENCING AS NECESSARY.
11. ROUGH GRADE PARKING LOT AND INSTALL TRENCH DRAINS AND DRAIN INLETS, AS WELL AS ALL ASSOCIATED ONSITE PIPING.
12. OBTAIN STREET OPENING PERMIT FOR DRAINAGE CONNECTION TO EXISTING CATCH BASIN IN FENIMORE ROAD, AS WELL AS PROPOSED CURB CUT WIDENINGS.
13. INSTALL DRAINAGE WORK TRIBUTARY TO EXISTING MUNICIPAL CATCH BASIN IN FENIMORE ROAD UP TO LOCATION OF PROPOSED STORMWATER PLANTER18. EXCAVATE AND CONSTRUCT FOUNDATIONS FOR NEW BUILDING.
14. CONSTRUCT STORMWATER PLANTER ADJACENT TO BUILDING ADDITION.
15. CONSTRUCT BUILDING. INSTALL AND CONNECT ALL ROOF DRAIN LEADERS TO PREVIOUSLY INSTALLED STORMWATER PLANTER.
16. INSTALL CURBING, AND SUB-BASE COURSES. FINE GRADE AND SEED ALL DISTURBED AREAS. SPREAD SALT HAY OVER SEEDED AREAS.
17. INSTALL BITUMINOUS CONCRETE TOP COURSE.
18. CLEAN PAVEMENT, DRAIN LINES, CATCH BASINS AND PRETREATMENT DEVICES. CLEAN EXFILTRATION/ATTENUATION GALLERIES.
19. REMOVE ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES AFTER THE SITE IS STABILIZED WITH VEGETATION.

*SOIL EROSION AND SEDIMENT CONTROL MAINTENANCE MUST OCCUR EVERY TWO WEEKS AND PRIOR TO AND AFTER EVERY ½" OR GREATER RAINFALL EVENT.

CONSTRUCTION PRACTICES TO MINIMIZE STORMWATER CONTAMINATION:

GENERAL:

ADEQUATE MEASURES SHALL BE TAKEN TO MINIMIZE CONTAMINANT PARTICLES ARISING FROM THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, GRADING OPERATIONS, AND THE RECLAMATION AND PLACEMENT OF PAVEMENT, DURING PROJECT CONSTRUCTION, INCLUDING BUT NOT LIMITED TO:

- BUILDING MATERIALS, GARBAGE, AND DEBRIS SHALL BE CLEANED UP DAILY AND DEPOSITED INTO DUMPSTERS, WHICH WILL BE PERIODICALLY REMOVED FROM THE SITE AND APPROPRIATELY DISPOSED OF. ALL DUMPSTERS AND CONTAINERS LEFT ON-SITE SHALL BE COVERED AND SURROUNDED WITH SILT FENCE IN ORDER TO PREVENT CONTAMINANTS FROM LEAVING THE SITE. SILT FENCING SHALL BE INSPECTED ON A WEEKLY BASIS.
- DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN.
- THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEPT DAILY TO REMOVE EXCESS MUD, DIRT, OR ROCK TRACKED FROM THE SITE.
- PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS THAT ARE CLEARLY LABELED.
- ALL VEHICLES ON SITE WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE.
- ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. SPILLS LARGE ENOUGH TO REACH THE STORM SYSTEM WILL BE REPORTED TO THE NATIONAL RESPONSE CENTER AT 1-800-424-8802.
- MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE TEMPORARY MATERIAL STORAGE TRAILER ONSITE. EQUIPMENT WILL INCLUDE, BUT NOT BE LIMITED TO, BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAW DUST, AND PLASTIC AND METAL TRASH CONTAINERS.
- ALL PAINT CONTAINERS AND CURING COMPOUNDS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SYSTEM, BUT WILL BE PROPERLY DISPOSED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- SANITARY WASTE WILL BE COLLECTED FROM PORTABLE UNITS A MINIMUM OF TWO TIMES A WEEK TO AVOID OVERFILLING. ALL SANITARY WASTE UNITS SHALL BE SURROUNDED BY SILT FENCE TO PREVENT CONTAMINANTS FROM LEAVING THE SITE. SILT FENCING SHALL BE INSPECTED ON A WEEKLY BASIS.
- ANY ASPHALT SUBSTANCES USED ON-SITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION.
- FERTILIZERS WILL BE STORED IN A COVERED SHED AND PARTIALLY USED BAGS WILL BE TRANSFERRED TO A SEALABLE BIN TO AVOID SPILLS AND WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER AND WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORMWATER.
- NO DISTURBED AREA SHALL BE LEFT UN-STABILIZED FOR LONGER THAN 14 DAYS DURING THE GROWING SEASON.
- WHEN EROSION IS LIKELY TO BE A PROBLEM, GRUBBING OPERATIONS SHALL BE SCHEDULED AND PERFORMED SUCH THAT GRADING OPERATIONS AND PERMANENT EROSION CONTROL FEATURES CAN FOLLOW WITHIN 24 HOURS THEREAFTER.
- AS WORK PROGRESSES, PATCH SEEDING SHALL BE DONE AS REQUIRED ON AREAS PREVIOUSLY TREATED TO MAINTAIN OR ESTABLISH PROTECTIVE COVER.
- DRAINAGE PIPES AND SWALES/DITCHES SHALL GENERALLY BE CONSTRUCTED IN A SEQUENCE FROM OUTLET TO INLET IN ORDER TO STABILIZE OUTLET AREAS AND DITCHES BEFORE WATER IS DIRECTED TO THE NEW INSTALLATION OR ANY PORTION THEREOF, UNLESS CONDITIONS UNIQUE TO THE LOCATION WARRANT AN ALTERNATIVE METHOD.

SPILL CONTROL & SPILL RESPONSE:

- FOR ALL HAZARDOUS MATERIALS STORED ON SITE, THE MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEAN UP WILL BE CLEARLY POSTED. SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES, AND THE LOCATIONS OF THE INFORMATION AND CLEANUP SUPPLIES.
- APPROPRIATE CLEANUP MATERIALS AND EQUIPMENT WILL BE MAINTAINED BY THE CONTRACTOR IN THE MATERIALS STORAGE AREA ON-SITE. AS APPROPRIATE, EQUIPMENT AND MATERIALS MAY INCLUDE ITEMS SUCH AS BOOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR CLEAN UP PURPOSES.
- ALL SPILLS WILL BE CLEANED IMMEDIATELY AFTER DISCOVERY AND THE MATERIALS DISPOSED OF PROPERLY.
- THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- AFTER A SPILL, A REPORT WILL BE PREPARED DESCRIBING THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES TAKEN. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING, AS WELL AS CLEAN UP INSTRUCTIONS IN THE EVENT OF REOCCURRENCES.
- THE CONTRACTOR'S SITE SUPERINTENDENT, RESPONSIBLE FOR DAY-TO-DAY OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE SITE SUPERINTENDENT HAS HAD APPROPRIATE TRAINING FOR HAZARDOUS MATERIALS HANDLING, SPILL MANAGEMENT, AND CLEANUP.
- THE CONTRACTOR'S SITE SUPERINTENDENT WILL BE NOTIFIED IMMEDIATELY WHEN A SPILL OR THE THREAT OF A SPILL IS OBSERVED. THE SUPERINTENDENT WILL ASSESS THE SITUATION AND DETERMINE THE APPROPRIATE RESPONSE.
- IF SPILLS REPRESENT AN IMMINENT THREAT OF ESCAPING EROSION AND SEDIMENT CONTROLS AND ENTERING RECEIVING WATERS, PERSONNEL WILL BE DIRECTED TO RESPOND IMMEDIATELY TO CONTAIN THE RELEASE AND NOTIFY THE SUPERINTENDENT AFTER THE SITUATION HAS BEEN STABILIZED.

ANY ALTERATIONS OR REVISIONS OF THESE PLANS, UNLESS DONE BY OR UNDER THE DIRECTION OF THE NYS LICENSED AND REGISTERED ENGINEER THAT PREPARED THEM, IS A VIOLATION OF THE NYS EDUCATION LAW.

- SPILL KITS CONTAINING APPROPRIATE MATERIALS AND EQUIPMENT FOR SPILL RESPONSE AND CLEANUP WILL BE MAINTAINED BY THE CONTRACTOR AT THE SITE.
- IF OIL SHEEN IS OBSERVED ON SURFACE WATER, ACTION WILL BE TAKEN IMMEDIATELY TO REMOVE THE MATERIAL CAUSING THE SHEEN. THE CONTRACTOR WILL USE APPROPRIATE MATERIALS TO CONTAIN AND ABSORB THE SPILL. THE SOURCE OF THE OIL SHEEN WILL ALSO BE IDENTIFIED AND REMOVED OR REPAIRED AS NECESSARY TO PREVENT FURTHER RELEASES.
- IF A SPILL OCCURS THE SUPERINTENDENT OR THE SUPERINTENDENT'S DESIGNEE WILL BE RESPONSIBLE FOR COMPLETING THE SPILL REPORTING FORM AND FOR REPORTING THE SPILL TO THE CONTACTS LISTED BELOW.
- PERSONNEL WITH PRIMARY RESPONSIBILITY FOR SPILL RESPONSE AND CLEAN UP WILL RECEIVE TRAINING BY THE CONTRACTOR'S SITE SUPERINTENDENT OR DESIGNEE. THE TRAINING MUST INCLUDE IDENTIFYING THE LOCATION OF THE SPILL KITS AND OTHER SPILL RESPONSE EQUIPMENT AND THE USE OF SPILL RESPONSE MATERIALS.
- SPILL RESPONSE EQUIPMENT WILL BE INSPECTED AND MAINTAINED AS NECESSARY TO REPLACE ANY MATERIALS USED IN SPILL RESPONSE ACTIVITIES.

SPILL CONTROL NOTIFICATION:

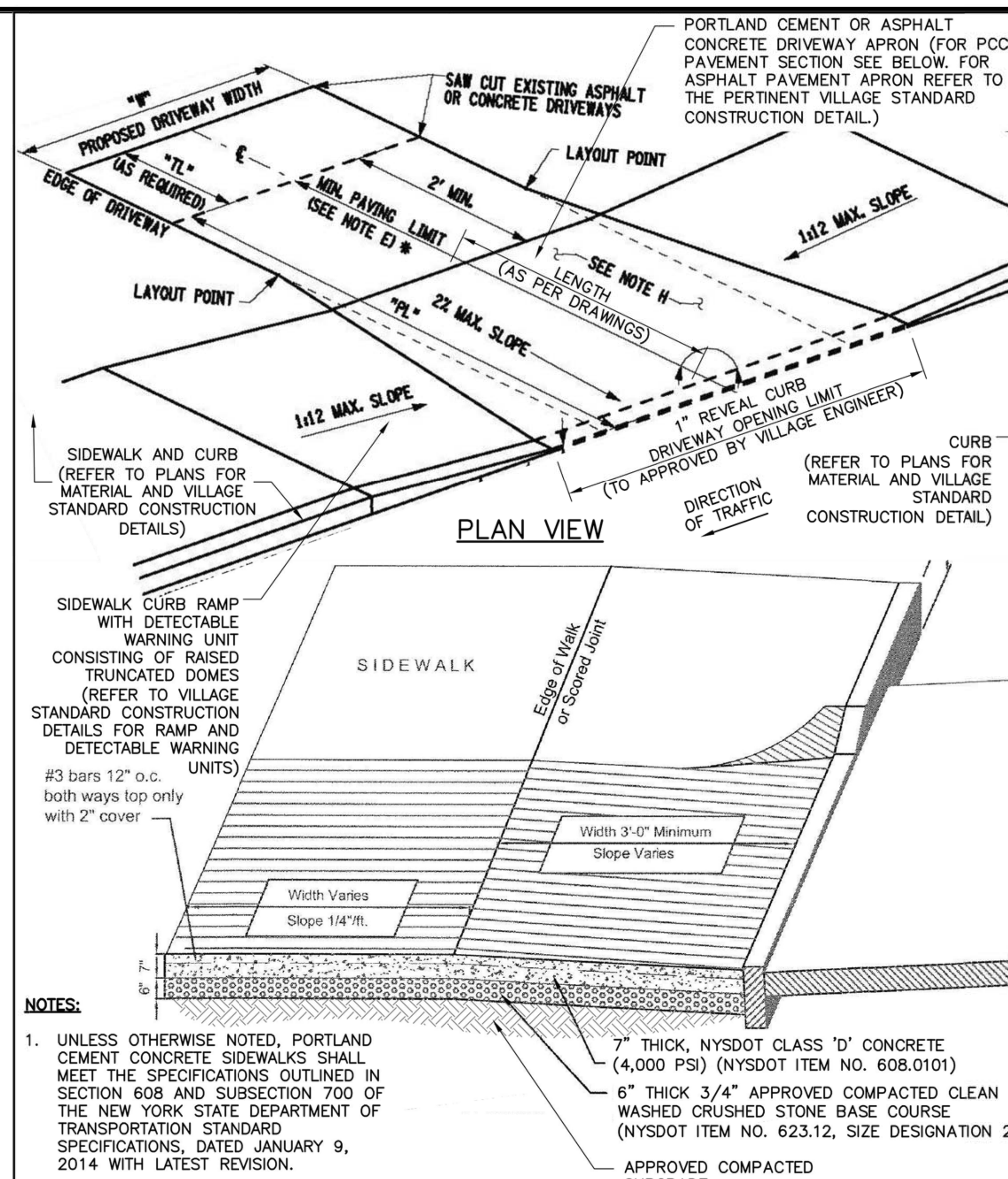
- A REPORTABLE SPILL IS A QUANTITY OF FIVE (5) GALLONS OR MORE OR ANY SPILL OF OIL WHICH: (1) VIOLATES WATER QUALITY STANDARDS, (2) PRODUCES A 'SHEEN' ON A SURFACE WATER, OR (3) CAUSES A SLUDGE OR EMULSION. THIS SPILL MUST BE REPORTED IMMEDIATELY TO THE AGENCIES LISTED BELOW.
- ANY SPILL OF OIL OR HAZARDOUS SUBSTANCE TO WATERS OF THE STATE MUST BE REPORTED IMMEDIATELY BY TELEPHONE TO THE FOLLOWING AGENCIES:

- 911 – POLICE, FIRE AND EMS
- VILLAGE OF MAMARONECK ENGINEERING DEPARTMENT
  169 MOUNT PLEASANT AVENUE
  MAMARONECK, NY 10543
  PHONE: (914) 777-7731
- VILLAGE OF MAMARONECK FIRE DEPARTMENT
  123 MAMARONECK AVENUE
  MAMARONECK, NY 10543
  PHONE: (914) 825-8777
- NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC)
  SPILL REPORTING HOTLINE
  (1800) 457-7362
- NATIONAL RESPONSE CENTER: (1800) 424-8802
- LOCAL EMERGENCY PLANNING COMMITTEE (LEPC)
  WESTCHESTER COUNTY OFFICE OF EMERGENCY MANAGEMENT
  200 BRADHURST AVENUE
  HAWTHORNE, NY 10532
  (914) 864-5450
- WESTCHESTER COUNTY DEPARTMENT OF HEALTH (WCDOH)
  SPILL REPORTING HOTLINE
  (914) 813-5000
- U.S. ENVIRONMENTAL PROTECTION AGENCY (USEPA)
  EPCRA INFORMATION HOTLINE
  (1800) 535-0202
- U.S. DEPARTMENT OF LABOR AND OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)
  TARRYTOWN, NY
  (914) 524-7510

STORMWATER MANAGEMENT FACILITIES MAINTENANCE PROGRAM

MEASURE	DATES FOR INSPECTION	TIMING, ACTIVITY, AND LOCATION
GENERAL MAINTENANCE (STORM SEWER, CATCH BASINS/ DRAIN INLETS, MANHOLES, PRE-TREATMENT DEVICE AND INFILTRATION BASIN)	ALL	ALL STORMWATER FACILITIES SHALL BE INSPECTED IMMEDIATELY AFTER COMPLETION OF CONSTRUCTION, AND THEN MONTHLY FOR THE FIRST THREE (3) MONTHS FOLLOWING THE COMPLETION OF THE PROJECT. WITHIN THE FIRST THREE (3) MONTHS, INSPECTIONS SHALL IMMEDIATELY BE PERFORMED FOLLOWING A LARGE STORM EVENT (I.E. PRODUCING 1/2" (ONE-HALF INCH) OF RAIN OR GREATER. THEREAFTER, THESE FACILITIES SHALL BE INSPECTED AS DESCRIBED AS FOLLOWS. UPON INSPECTION, FACILITIES SHALL BE IMMEDIATELY MAINTAINED AND/OR CLEANED AS MAY BE REQUIRED. ANY SITE AREAS EXHIBITING SOIL EROSION OF ANY KIND SHALL BE IMMEDIATELY RESTORED AND STABILIZED WITH VEGETATION, MULCH OR STONE, DEPENDING ON THE AREA TO BE STABILIZED. UPON EACH INSPECTION, ALL VISIBLE DEBRIS INCLUDING, BUT NOT LIMITED TO, TWIGS, LEAF AND FOREST LITTER SHALL BE REMOVED FROM THE BASIN, OVERFLOW DISCHARGE POINTS AND FRAMES AND GRATES OF DRAINAGE STRUCTURES.
SUMPS – CATCH BASIN/DRAIN INLETS AND DRAIN MANHOLES	UPON COMPLETION OF CONSTRUCTION: –ONCE A MONTH FOR THE FIRST THREE (3) MONTHS AFTER FIRST THREE (3) MONTHS: –EVERY FOUR (4) MONTHS THEREAFTER	ALL CATCH BASIN/DRAIN INLETS AND DRAIN MANHOLES WITH SUMPS HAVE BEEN DESIGNED TO TRAP SEDIMENT PRIOR TO ITS TRANSPORT TO THE INFILTRATION PRACTICE AND, ULTIMATELY, DOWNSTREAM. THESE SUMPS WILL REQUIRE PERIODIC INSPECTION AND MAINTENANCE TO ENSURE THAT ADEQUATE DEPTH IS MAINTAINED WITHIN THE SUMPS. THE OWNER, OR THEIR DULY AUTHORIZED REPRESENTATIVE, SHALL TAKE MEASUREMENTS OF THE SUMP DEPTH. IF SEDIMENT HAS ACCUMULATED TO 1/2 (ONE-HALF) THE DEPTH OF THE SUMP, ALL SEDIMENT SHALL BE REMOVED FROM THE SUMP. SEDIMENTS CAN BE REMOVED WITH HAND-LABOR OR WITH A VACUUM TRUCK. THE USE OF ROAD SALT SHALL BE MINIMIZED FOR MAINTENANCE OF ROADWAY AND DRIVEWAY AREAS.
EXISTING HYDRODYNAMIC SEPARATOR	UPON COMPLETION OF CONSTRUCTION: –QUARTERLY FOR FIRST YEAR AFTER FIRST YEAR: –EVERY SIX (6) MONTHS THEREAFTER (SPRING & FALL)	THE HYDRODYNAMIC SEPARATOR DEVICE LOCATED IMMEDIATELY UPSTREAM OF THE OUTFALL SHALL BE MAINTAINED DURING DRY WEATHER CONDITIONS. ANY ACCUMULATED SEDIMENTS SHALL BE VACUUMED OUT WHEN SEDIMENT HAS REACHED 1/2 (ONE-HALF) THE CAPACITY OF THE ISOLATED SUMP, OR WHEN AN APPRECIABLE LEVEL OF HYDROCARBONS AND TRASH HAS ACCUMULATED, WHICHEVER OCCURS FIRST. WHEN THE SEDIMENT PILE IS WITHIN 30 TO 36 INCHES OF THE WATER SURFACE, THE SYSTEM SHOULD BE MAINTAINED. A VACUUM TRUCK SHALL BE USED TO REMOVE THE ACCUMULATED SEDIMENT AND DEBRIS. REFER TO MANUFACTURER'S LITERATURE FOR DETAILED MAINTENANCE INSTRUCTIONS.
STORMWATER PLANTER	UPON COMPLETION OF CONSTRUCTION: –TWICE IN THE FIRST SIX(6) MONTHS & AFTER EACH STORM EVENT GREATER THAN 0.5-INCHES AFTER FIRST YEAR: –EVERY FOUR (4) MONTHS THEREAFTER & AFTER STORM EVENTS GREATER THAN THE 1-YEAR STORM	ROUTINE MAINTENANCE ACTIVITIES INCLUDE PRUNING AND REPLACING DEAD OR DYING VEGETATION, PLANT THINNING, AND EROSION REPAIR. SINCE STORMWATER PLANTERS ARE NOT TYPICALLY PRECEDED BY PRE-TREATMENT PRACTICES, THE SOIL SURFACE SHOULD BE INSPECTED FOR EVIDENCE OF SEDIMENT BUILD-UP FROM THE CONNECTED IMPERVIOUS SURFACE AND FOR SURFACE PONDING. ATTENTION SHOULD BE PAID TO ADDITIONAL SEASONAL MAINTENANCE NEEDS AS WELL AS THE FIRST GROWING SEASON.

- DURING CONSTRUCTION, THE PARTY RESPONSIBLE FOR IMPLEMENTING THE TEMPORARY (DURING CONSTRUCTION) STORMWATER MANAGEMENT FACILITIES MAINTENANCE PROGRAM WILL BE THE CONTRACTOR. THE NAME AND CONTACT INFORMATION WILL BE FILED WITH THE TOWN OF YORKTOWN AND THE NYSDEC AT THE TIME OF THE PRE-CONSTRUCTION MEETING. THE PERMANENT MAINTENANCE PROGRAM FOR ALL NEW STORMWATER MANAGEMENT FACILITIES WILL BE MANAGED BY THE INDIVIDUAL HOMEOWNERS UPON COMPLETION OF CONSTRUCTION AND ACCEPTANCE OF THE IMPROVEMENTS.



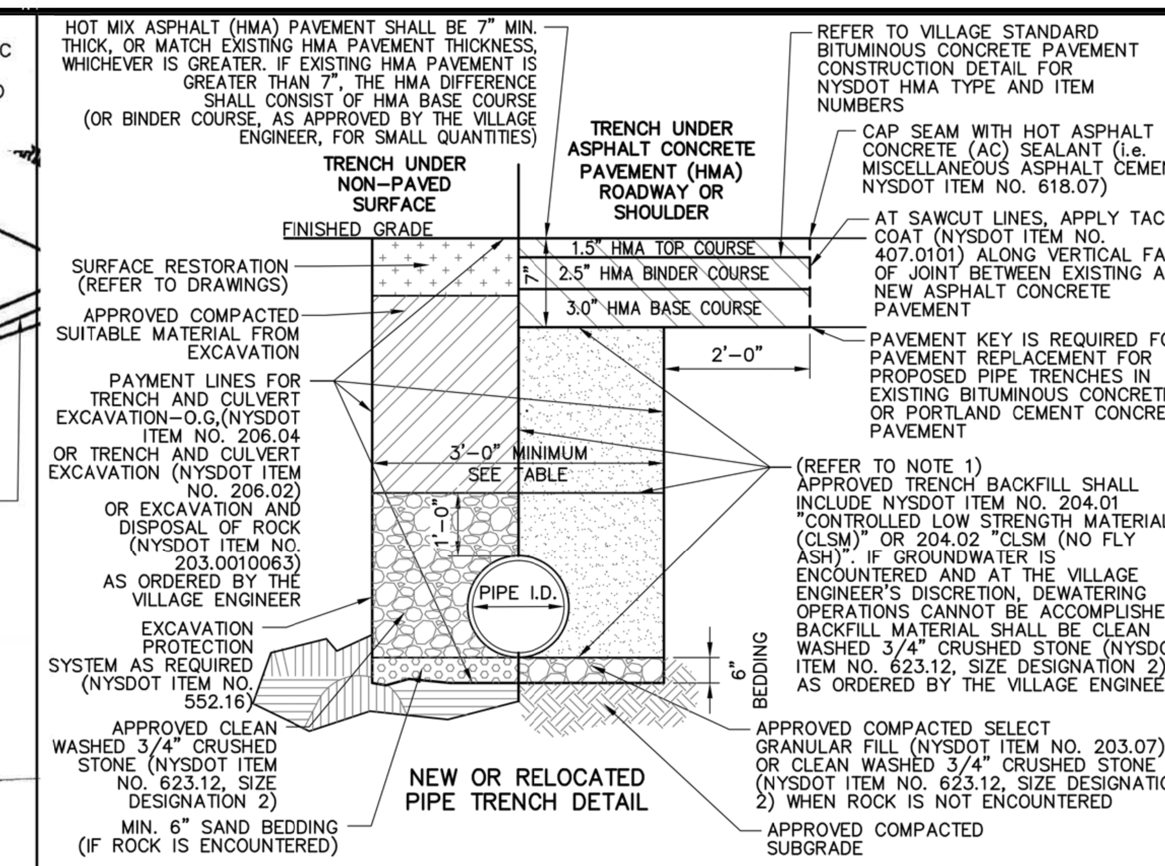
NOTES:

1. UNLESS OTHERWISE NOTED, PORTLAND CEMENT CONCRETE SIDEWALKS SHALL MEET THE SPECIFICATIONS OUTLINED IN SECTION 608 AND SUBSECTION 700 OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, DATED JANUARY 9, 2014 WITH LATEST REVISION.
2. CONVENTIONALLY FORMED CONCRETE SHALL MEET THE REQUIREMENTS FOR CLASS D IN ACCORDANCE WITH SECTION 501 "PORTLAND CEMENT CONCRETE--GENERAL."

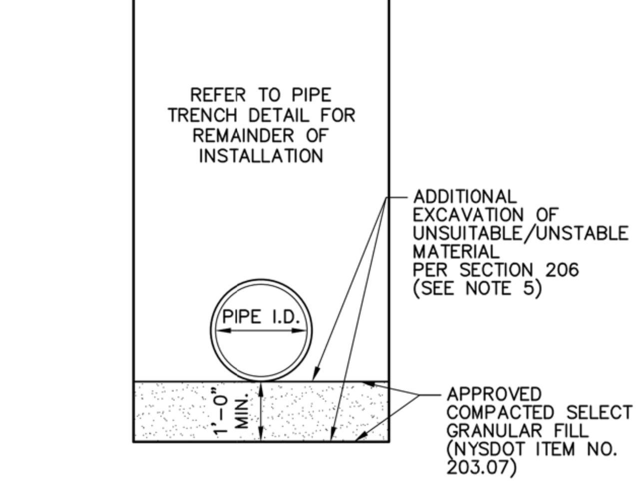
REINFORCED CONCRETE DRIVEWAY

TYPICAL SECTION

VILLAGE OF MAMARONECK STANDARD CONSTRUCTION DETAILS	PORTLAND CEMENT CONCRETE TAPERED DRIVEWAY APRON (SIDEWALK ABUTTING ROADWAY)	VILLAGE OF MAMARONECK	PROJECT: DETAILS
PREPARED IN THE OFFICE OF THE VILLAGE ENGINEER	DESIGNED BY: ARC, PE CHECKED BY: ARC, PE DRAWN BY: ARC, PE VOM PCC Driveway.dwg	VILLAGE MUNICIPAL BUILDING 169 MT. PLEASANT AVENUE (3RD FLOOR) WESTCHESTER COUNTY VILLAGE OF MAMARONECK, NY 10543 PHONE: (914) 777-7731 FAX: (914) 777-7792	SCALE: NOT TO SCALE DATE: 03/13/2014 SD-5E

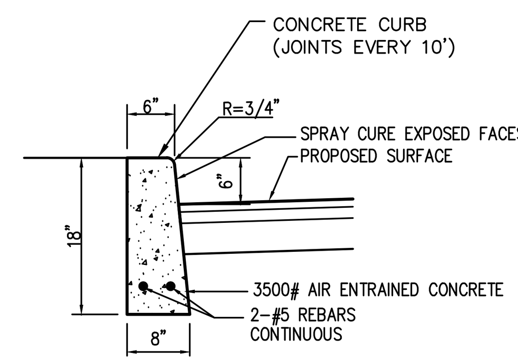


EXCAVATION PAYMENT WIDTHS	
PIPE INSIDE DIAMETER (I.D.)	TRENCH WIDTH
3	3'-0"
4	3'-0"
6	3'-0"
8	3'-0"
10	3'-0"
12	3'-0"
14	3'-6"
16	3'-6"
18	3'-6"
20	4'-0"
24	4'-0"
30	4'-6"
36	5'-0"
42	5'-6"
48	6'-0"
54	6'-6"
60	7'-0"
64	7'-6"



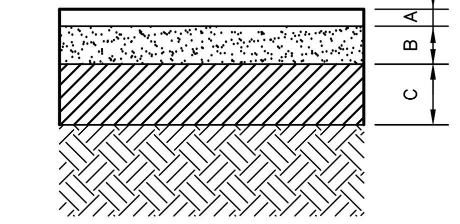
PIPE INSTALLATION IN UNSTABLE OR UNSUITABLE SOIL CONDITIONS

VILLAGE OF MAMARONECK STANDARD CONSTRUCTION DETAILS	PIPE TRENCH AND ASPHALT CONCRETE PAVEMENT RESTORATION	VILLAGE OF MAMARONECK	PROJECT: DETAILS
PREPARED IN THE OFFICE OF THE VILLAGE ENGINEER	DESIGNED BY: ARC, PE CHECKED BY: ARC, PE DRAWN BY: ARC, PE VOM Pipe Trench and Asphalt Re	VILLAGE MUNICIPAL BUILDING 169 MT. PLEASANT AVENUE (3RD FLOOR) WESTCHESTER COUNTY VILLAGE OF MAMARONECK, NY 10543 PHONE: (914) 777-7731 FAX: (914) 777-7792	SCALE: NOT TO SCALE DATE: 03/13/2014 REV: 10/16/2014 SD-2A



NOTE: EXPANSION JOINTS TO BE INSTALLED EVERY 10 FEET.

CONCRETE CURB (ON-SITE)

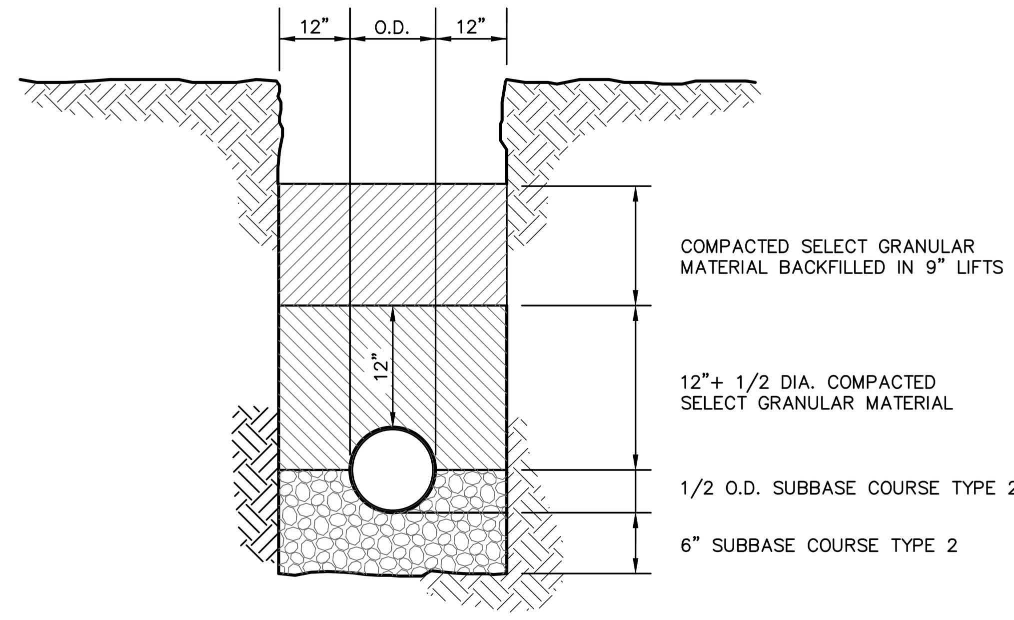


A– 2" TOP COURSE– N.Y.S.D.O.T. ITEM, 403.178202, TYPE 6 F2

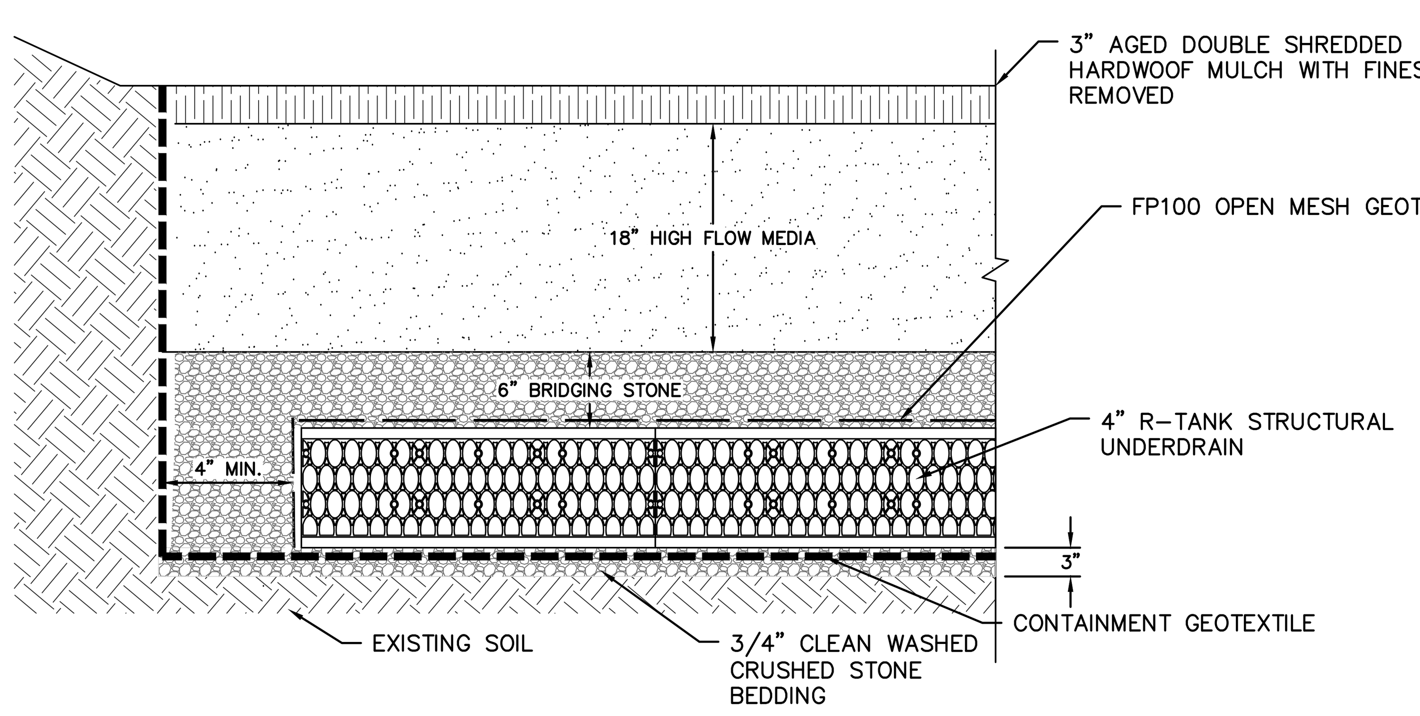
B– 4" BINDER COURSE N.Y.S.D.O.T. ITEM, 403.13, TYPE 3

C– 6" SUBBASE COURSE– N.Y.S.D.O.T. ITEM, 304.12, TYPE 2

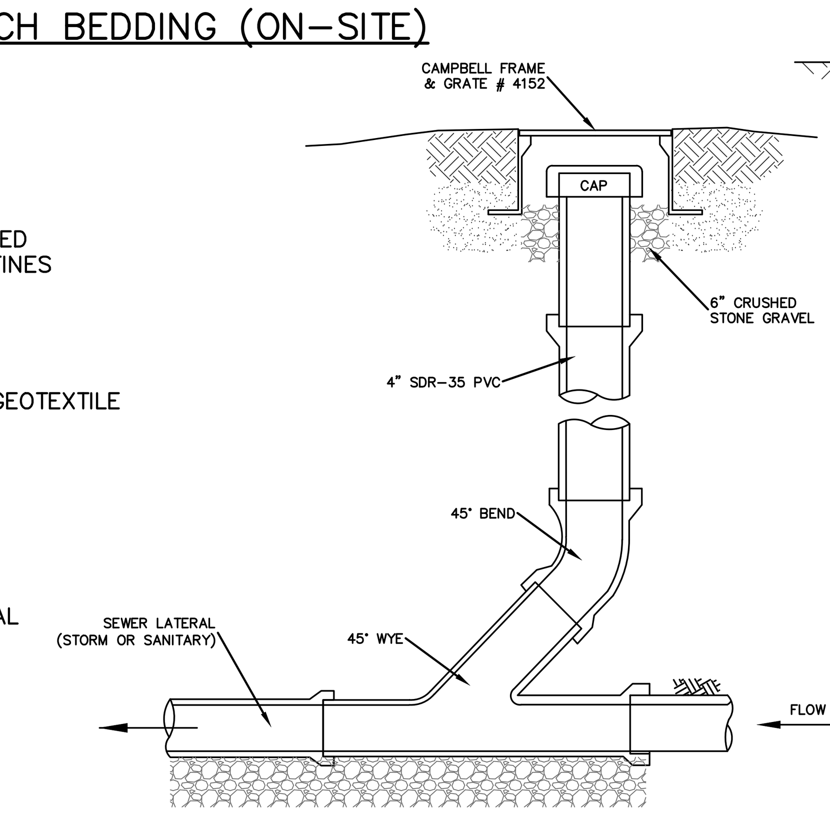
PAVEMENT SECTION (ON-SITE)



TRENCH BEDDING (ON-SITE)



FOCALPOINT FILTER



SEWER CLEANOUT DETAIL (GRAVITY)

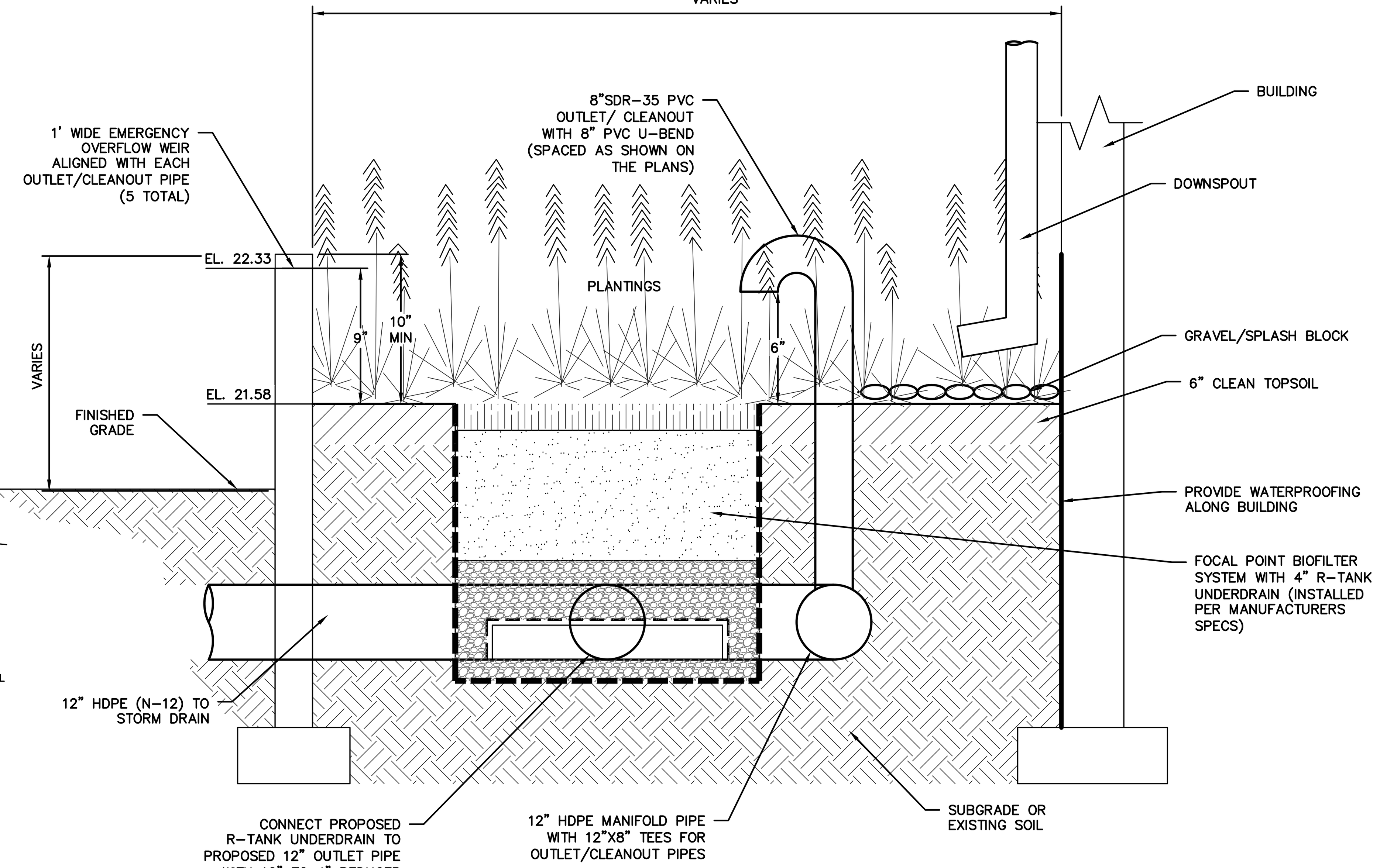
(STORM OR SANITARY)

NOTES (SANITARY SEWER SERVICES):

1. ALL SANITARY SEWER SERVICES TO BE 4"ø SDR-35 @ 1.0% MINIMUM.
2. IN ACCORDANCE WITH THE NYS RESIDENTIAL BUILDING CODE, THE FOLLOWING REQUIREMENTS APPLY:
   A. CLEANOUTS SHALL BE INSTALLED NOT MORE THAN 100 FEET APART IN HORIZONTAL DRAINAGE LINES (P3005.2.2).
   B. CLEANOUTS SHALL BE INSTALLED AT EACH CHANGE OF DIRECTION OF THE DRAINAGE SYSTEM GREATER THAN 45 DEGREES.
   C. CLEANOUTS SHALL BE INSTALLED SO THAT THE CLEANOUT OPENS TO ALLOW CLEANING IN THE DIRECTION OF THE FLOW OF THE DRAINAGE LINE (P3005.2.8).

NOTES (STORM SEWER):

1. REFER TO PLAN FOR SPECIFIC PIPE SIZING AND SLOPE SPECIFICATIONS; HOWEVER, IN GENERAL, ALL STORM SEWER SERVICES TO BE 6"ø SDR-35 @ 1.0% MINIMUM.
2. CLEANOUTS SHALL BE PLACED BEFORE SIGNIFICANT PIPE BEND LOCATIONS (I.E., JUNCTIONS, 90-DEGREE BENDS, ETC.) UNLESS A ROOF LEADER DOWNSPOUT CONNECTION IS PROPOSED.



STORMWATER PLANTER WITH FOCAL POINT FILTER SYSTEM

No.	Description	Date
1.	REVISED PER TOWN COMMENTS	9-27-18

Revisions

THIS PLAN NOT VALID FOR CONSTRUCTION WITHOUT ENGINEERS SEAL & SIGNATURE

PROJECT:

SELF STORAGE BUILDING ADDITION
560 FENIMORE ROAD
VILLAGE OF MAMARONECK
WESTCHESTER COUNTY – NEW YORK

SITE DETAILS

HEC

HUDSON ENGINEERING & CONSULTING, P.C.

45 Knollwood Road – Suite 201
Elmsford, New York 10523
T: 914-909-0420
F: 914-560-2086

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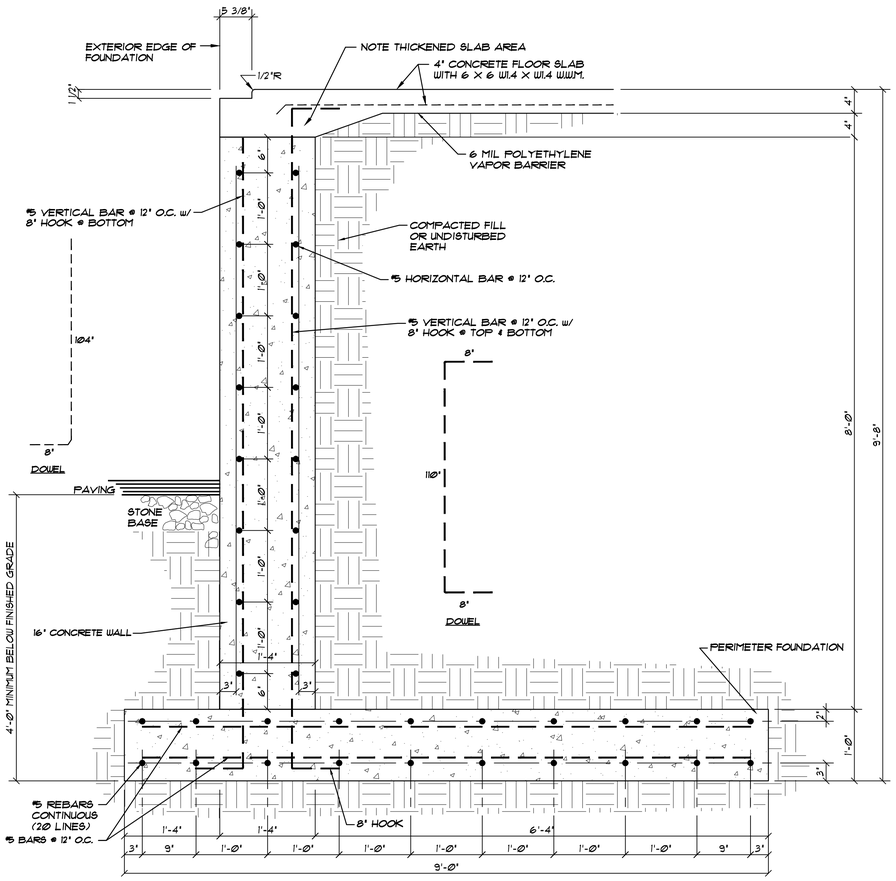
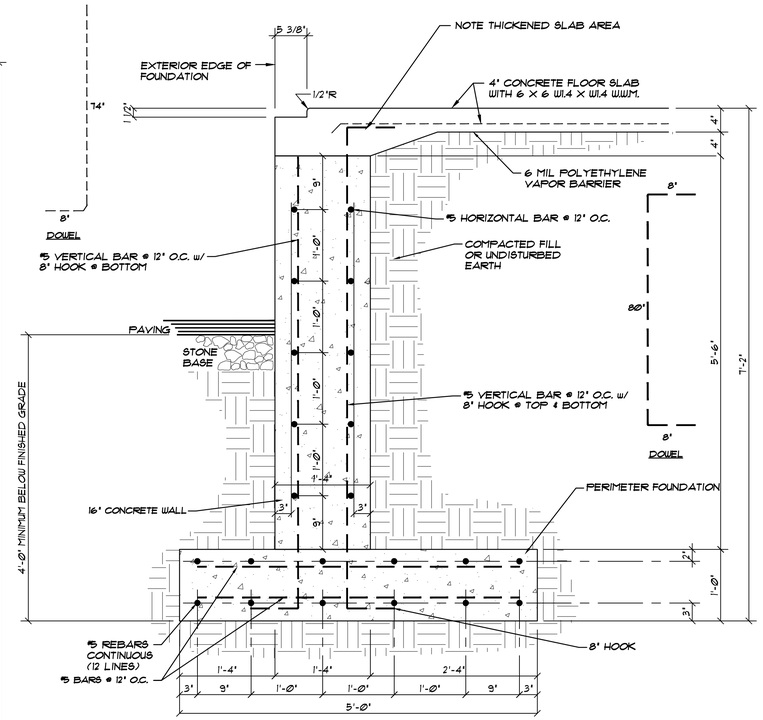
STATE OF NEW YORK · MICHAEL F. STEIN · No. 80637 · LICENSED PROFESSIONAL ENGINEER

Date:	2/8/18	Sheet:
Scale:	1" = 20'	7
Designed By:	D.C.	7
Checked By:	M.S.	
Sheet No.	C-7	



E / F5 PERIMETER FOUNDATION SECTION
NOT TO SCALE



D / F5 PERIMETER FOUNDATION SECTION
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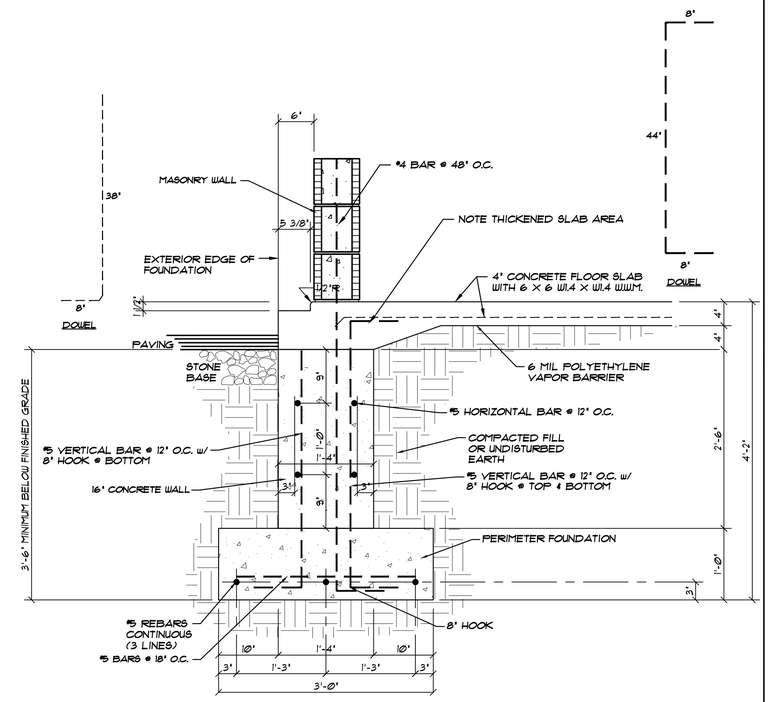
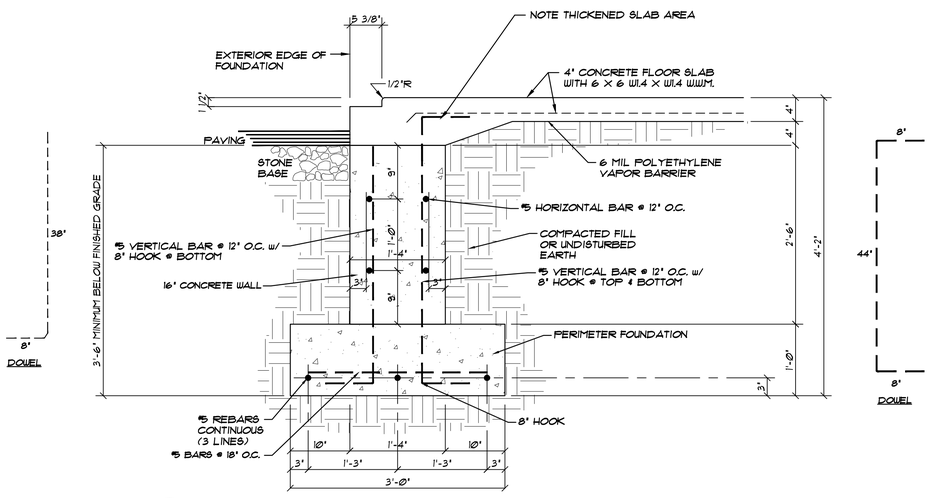
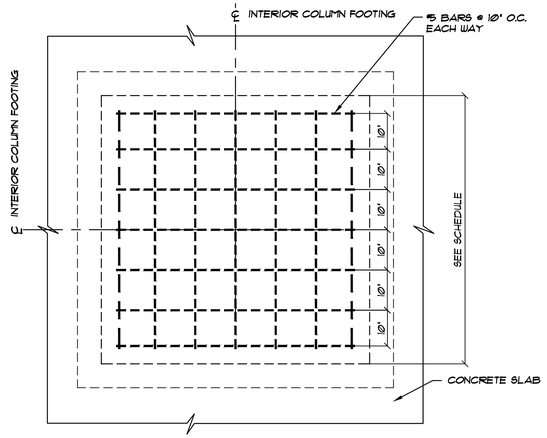


C / F5 PERIMETER FOUNDATION SECTION
NOT TO SCALE

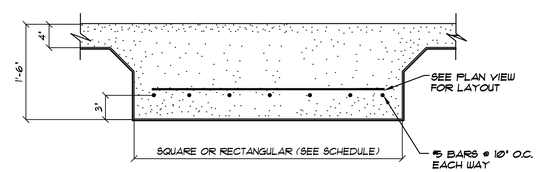


A / F5 PERIMETER FOUNDATION SECTION
NOT TO SCALE



B / F5 STEEL LAYOUT PLAN SQUARE/RECTANGULAR INTERIOR COLUMN FOOTING
NOT TO SCALE

FOOTING SCHEDULE	
ID	SIZE
F4	4'-0" x 4'-0"
F5	5'-0" x 5'-0"
F7	7'-0" x 7'-0"



SECTION @ FOOTING

REVISIONS	DATE	BY

DATE: 5/15/14
DRAWN BY: J. MORRISON
SCALE: AS NOTED
APPROVED BY:

BETCO
P.O. BOX 1650
STATESVILLE, NC 28687
(800)654-7813

PROJECT NAME: MAMARONECK SELF STORAGE
PROJECT ADDRESS: MAMARONECK, NEW YORK
OWNER: MAMARONECK SELF STORAGE, LLC.
PROJECT NO.: NY14056
SHEET TITLE: FOUNDATION DETAILS BUILDING "1"
DRAWING NUMBER: F5 OF 10

APPENDIX 2

Alternative to Truck Washing Station

APPENDIX 2

416 Waverly Avenue
Mamaroneck, New York

Excavation Work Plan
Truck Cleaning and Inspection Station

January 2019

The site excavation activities are planned following Town approval of the Application for the proposed building expansion. The following truck cleaning and maintenance plan is proposed during all Site excavation and cleanup activities as an alternative to a Truck Washing Station:

- Installation and maintenance of two stabilized construction entrances at the Site entry and exit points.

- Two truck access points will be installed on the west and north ends of the Site so that truck access will be feasible from two sides of the Site.

- Placement of a full-time gatekeeper at the Site to control truck entry and departure from the Site. The gatekeeper will be a competent person, OSHA HAZWOPER trained and experienced in construction, excavation and dump trailer operation. The gatekeeper will be responsible for ensuring that no truck leaves the Site with excavated soil from the Site on any part of the truck exterior.

- After each truck is loaded by the on-Site excavator, the gatekeeper will visually inspect the entire truck on the temporary access driveway or the stabilized construction entrance for the presence of fugitive soil before the truck leaves the Site. If soil is observed anywhere on the truck exterior, the material will be removed using a bristle broom or other hand tools to the satisfaction of the gatekeeper. The driveway and stabilized construction entrance will also be kept free of loose excavated material through maintenance with a shovel and broom. Polyethylene sheeting may be used to shroud the side of the truck that is being loaded. The sheeting will prevent fugitive soil from accumulating on the dump trailer exterior.

- Prior to departure and signing the soil manifests, the on-Site geologist or environmental scientist will visually observe each truck for the presence of

spillage on the truck exterior and, if present, will require that it be swept and removed.

- An on-Site water source will be maintained on standby at all times in case trucks need to be spot-washed to ensure that no soil from the Site leaves the designated loading and on-Site truck staging inspection area. Whenever required, a water and Alconox solution will be used to clean the trucks.

- If the above-outlined alternative truck cleaning plan is not effective at ensuring soil from the excavation area does not get tracked off-Site, then the Contractor shall be prepared to implement a full-blown truck washing station.