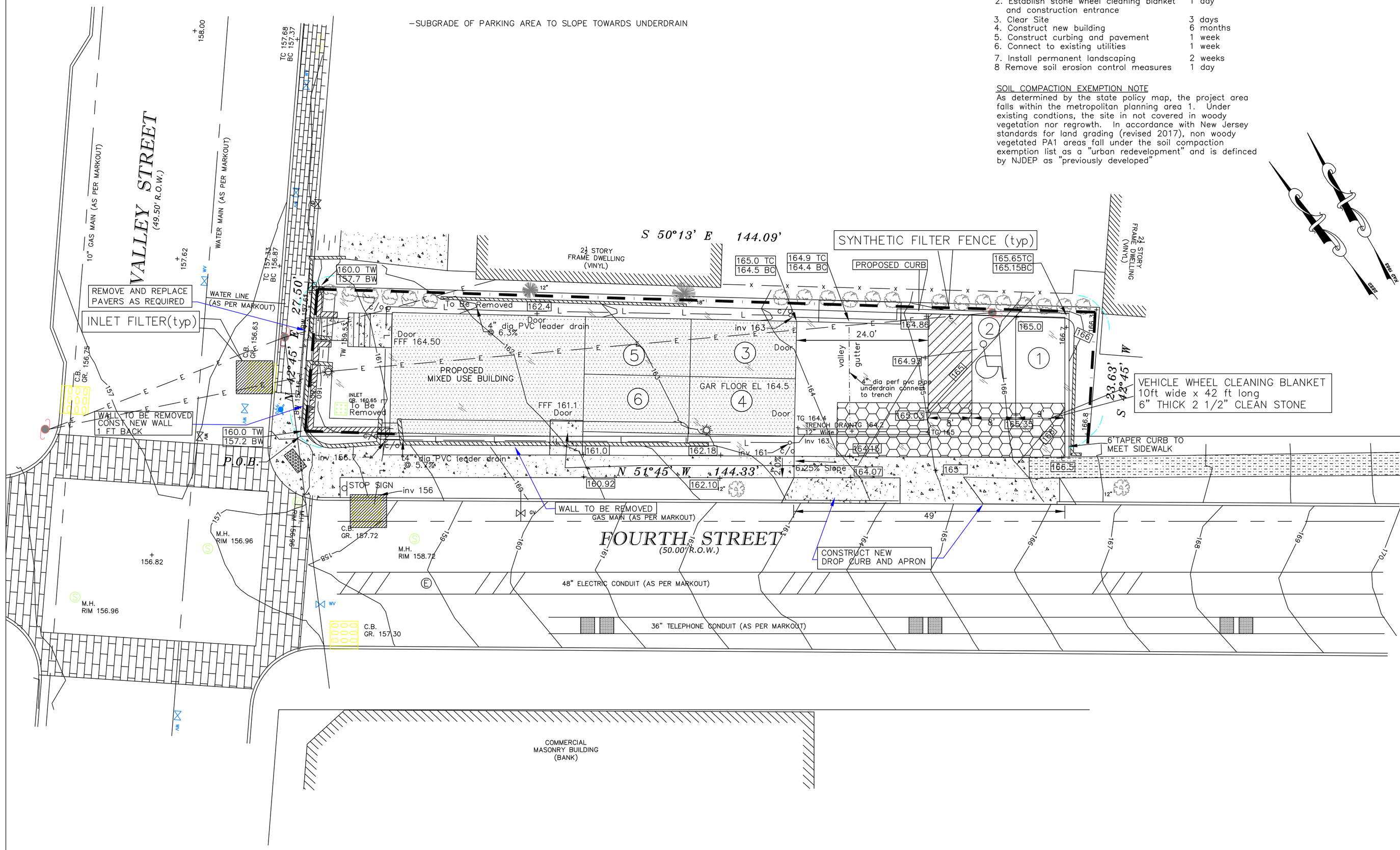
NOTES:
-ALL EXISTING SITE IMPROVEMENTS TO BE REMOVED
-BASED ON A BOUNDARY & TOPOGRPHIC SURVEY PREPARED BY BRAGINSKY SURVEYING, LLC DATED SEPT. 28, 2018

-SUBGRADE OF PARKING AREA TO SLOPE TOWARDS UNDERDRAIN

CONSTRUCTION SEQUENCE FOR SOIL EROSION CONTROL

1. Place silt fence	1 day
2. Establish stone wheel cleaning blanket and construction entrance	1 day
3. Clear Site	3 days
4. Construct new building	6 months
5. Construct curbing and pavement	1 week
6. Connect to existing utilities	1 week
7. Install permanent landscaping	2 weeks
8 Remove soil erosion control measures	1 day

SOIL COMPACTION EXEMPTION NOTE
As determined by the state policy map, the project area falls within the metropolitan planning area 1. Under existing condtions, the site in not covered in woody vegetation nor regrowth. In accordance with New Jersey standards for land grading (revised 2017), non woody vegetated PA1 areas fall under the soil compaction exemption list as a "urban redevelopment" and is definced by NJDEP as "previously developed"



SOIL EROSION AND SEDIMENT CONTROL NOTES

1. All soil erosion and sediment control practices on this plan will be constructed in accordance with the "New Jersey Standards for Soil Erosion and Sediment Control" 7th Edition last revised December 2017. These measures will be installed prior to any major soil disturbance or in their proper sequence and maintained until permanent protection is established.
2. All soil to be exposed or stockpiled for a period of greater than 14 days, and not under active construction, will be temporarily seeded and hay mulched or otherwise provided with vegetative cover. This temporary cover shall be maintained until such time whereby permanent restabilization is established.
3. Seeding Dates: The following seeding dates are best recommended to establish permanent vegetative cover within most locations in the HEPSCD Spring 3/1 – 5/15 and Fall 8/15 – 10/1
4. Sediment fences are to be properly trenched and maintained until permanent vegetative cover is established.
5. All storm drainage inlets shall be protected by one of the practices accepted in the Standards and remain until permanent stabilization has been established. Storm drainage outlet points shall be protected as required before they become functional.
6. Mulch materials shall be un-rotted small grain straw applied at the rate of 70 to 90 pounds per 1000 square feet and anchored with a mulch anchoring tool, liquid mulch binders or netting tie down. Other suitable materials may be used if approved by the Soil Conservation District.
7. All erosion control devices shall be periodically inspected, maintained and corrected by the contractor. Any damage incurred by erosion shall be rectified immediately.
8. The Hudson-Essex-Passaic Soil Conservation District will be notified in writing at least 48 hours prior to any soil distrubing activities. Fax 862-333-4507 email INFORMATION@HEPSCD.ORG
9. The applicant must obtain a District issued Report-of-Compliance prior to applying for the Certificate of Occupancy or Temporary Certificate of Occupancy from the respective municipality, NJ-DCA or any other controlling agency. Contact the District at 862-333-4505 to request a Final Inspection, giving advanced notice upon competion of restabilization measures. A performance deposit may be posted with the District when winter weather or snow cover prohibits the proper application of seed, mulch, fertilizer or hydro-seed.
10. Paved roadways must be kept clean at all times. Do not utilize a fire or garden hose to clean roads unless the runoff is directed to a properly designed and functioning sediment basin. Water pumped out of the excavated areas contains sediments that must be removed prior to discharging to receiving bodies of water using removable pumping stations, sump pits, portable sedimentation tanks and/or silt control bags.
11. All surfaces having lawn or landscaping as final cover are to be provided topsoil prior to re-seeding, sodding or planting. A depth of 5 inches (unsettled) is required as per the Standards for Topsoiling and Land Grading, last revised December 2017.
12. All plan revisions must be submitted to the District for proper review and approval.
13. A crushed stone wheel cleaning tracking-pad is to be installed at all site exits using 2 1/2-1" crushed angular stone (ASTM 2 or 3) to a minimum length of 50 feet and minimum depth of 6". All driveways must be provided with crushed stone until paving is complete.
14. Steep slopes incurring disturbance may require aditional stabilization measures. These "special" measures shall be designed by the applicants engineer and be approved by the Soil Conservation District.
15. The Hudson-Essex-Passaic Soil Conservation District shall be notified, in writing, for the sale of any portion of the project or for the sale of individual lots. New owner's information shall be provided. Additional measures deemed necessary by District officials shall be implemented as conditions warrant.

DUST CONTROL MEASURES

Mulches – See Standard for Stabilization with Mulches Only (page 5-1)
Vegetative Cover – See Standard for Temporary Vegetative Cover (page 7-1), Permanent Vegetative Cover for Soil Stabilization (page 4-1), and Permanent Stabilization with Sod (page 6-1)
Spray On Adhesives – On mineral soils (not effective on muck soils) Keep traffic off these areas.

Tillage – To roughen surface and bring clods to the surface. This is a temporary emergency measure which should be used before soil blowing starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12 inches apart, and spring-toothed harrows are examples of equipment which may produce the desired effect.

Sprinkling – Site is sprinkled until the surface is wet.

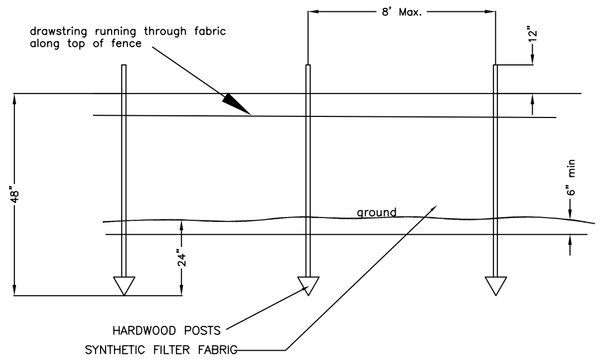
Barriers – Solid board fences, snow fences, burlap fences, crate walls, bales of hay, and similar material can be used to control air currents and soil blowing.

Calcium Chloride – Shall be in the form of loose, dry granules or flakes fine enough to feed through commonly used spreaders at a rate that will keep surface moist but not cause pollution or plant damage. If used on steeper slopes, then use other practices to prevent washing into streams, or accumulation around plants.

Stone – Cover surface with crushed stone or coarse gravel.

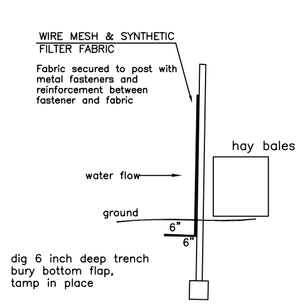
DUST CONTROL MATERIALS

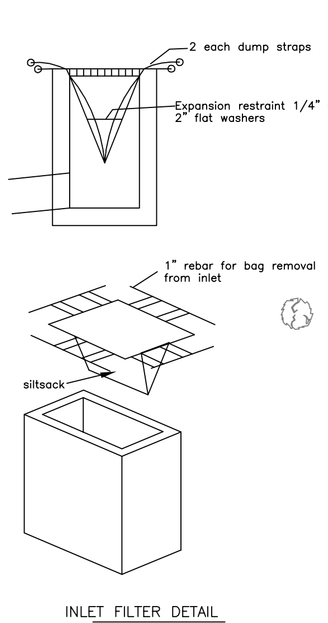
MATERIAL	WATER DILUTION	TYPE OF NOZZLE	APPLY GALLONS/ACRE
Anionic asphalt emulsion	7:1	Coarse Spray	1200
Latex emulsion	12.5:1	Fine Spray	235
Resin in water	4:1	Fine Spray	300
Polyacrylamide (PAM) spray	Apply according to manufacturer's instructions. May also be used as an additive to sediment basins to flocculate and precipitate suspended colloids.		
Polyacrylamide (PAM) dry spread			
Acidulated Soy Bean Soap Stick	None	Coarse Spray	1200



1. Fence posts shall be spaced 8 feet center to center or closer. They shall extend at least 2 feet into the ground and extend at least 2 feet above ground. Posts shall be constructed of hardwood with a minimum diameter thickness of 1 1/2 inches.
2. A metal fence with 6 inch-by smaller openings and at least 2 feet high may be utilized, fastened to the fence posts, to provide reinforcement and support to the geotextile fabric where space for using reinforce is limited and heavy sediment loading is expected.
3. A geotextile fabric, recommended for such use by the ,manufacturer, shall be buried at least 6 inches deep in the ground. The fabric shall extend at least 2 feet above the ground. The fabric must be securely fastened to the posts using a system consisting of metal fasteners (nails or staples) and a high strength reinforcement material (nylon webbing, grommets, washers, etc.) placed between the fastener and the geotextile fabric. The fastening system shall resist tearing away from the post. The incorporate a drawstring in the top portion of the fence for added strength.

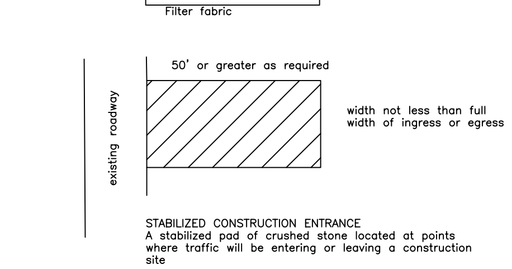
FILTER FABRIC DETAIL





INLET FILTER DETAIL

Installation notes for SILTSACK
1. Remove drain grate and insert siltsack
2. Replace grate to hold siltsack in position
3. Remove filled siltsack with front end loader or other equipment
4. Clean and reuse or discard and replace with new siltsack



LENGTHS OF CONSTRUCTION EXITS ON SLOPING ROADBEDS

Percent Slope of Roadway	Length of Stone Required Coarse Grained Soils	Fine Grained Soils
0 to 2%	50 ft	100 ft
2 to 5%	100 ft	200 ft
> 5%	Entire surface stabilized with FABC base course	

Where a stabilized construction exit traverses between two buildings, it shall be stoned the entire length of the right-of-way. Mountable stone berms placed across the width of the exit may also be required at the transition point between paved and non-paved areas to trap sediments which are carried by stormwater flowing along the curbline.

Individual lot entrance and egress – After interior roads are paved, individual lot ingress/egress points may require a stabilized construction entrance consisting of no. 3 stone (1" to 2") to prevent or minimize tracking of sediments. Width of the stone ingress/egress shall be equal to lot entrance and shall be a minimum of ten feet in length. If space is limited, vehicle tires may be washed with clean water before entering a paved area. A wash station must be located such that wash water will not flow onto paved roadways or into unprotected storm drainage systems.

When the construction access exits onto a major roadway, a paved transition area may be installed between the major roadway and the stoned entrance to prevent loose stones from being transported out onto the roadway by heavy equipment entering or leaving the site.

MAINTENANCE
The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto roadways. This may require periodic top dressing with additional stone or additional length as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed, or tracked onto roadways (public or private) or other impervious surfaces must be removed immediately.

Where accumulation of dust/sediment is inadequately cleaned or removed by conventional methods, a power broom or street sweeper will be required to clean paved or impervious surfaces. All other access points which are not stabilized shall be blocked off.

STABILIZED CONSTRUCTION ENTRANCE
A stabilized pad of crushed stone located at points where traffic will be entering or leaving a construction site

DATE	REVISION
APR 19, 2019	AS PER ENG REVIEW
MAR 19, 2019	AS PER ENG REVIEW
FEB 22, 2019	REVISE LAYOUT
FEB 21, 2019	REVISE LAYOUT

GRADING PLAN
184 VALLEY STREET
BLOCK 2003 LOT 1

TOWNSHIP of SOUTH ORANGE ESSEX COUNTY, NJ

Matarazzo Engineering, LLC
engineers surveyors planners
575 Route 46 West Fairfield, NJ 07004
Tel (973)808-8779 Fax (973)808-8789
Certificate of Authorization 24GA28051000

DATE DEC. 13, 2018

FRANK MATARAZZO professional engineer & land surveyor NJ Lic No 37513
CHARLES J. CARBONE professional engineer NJ Lic No 32367

SCALE	DRN BY	CHK BY	FILE No	DRAWING	SHT 1 OF 1
1"= 10'	CJC	FM	118690	118690-SP	

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