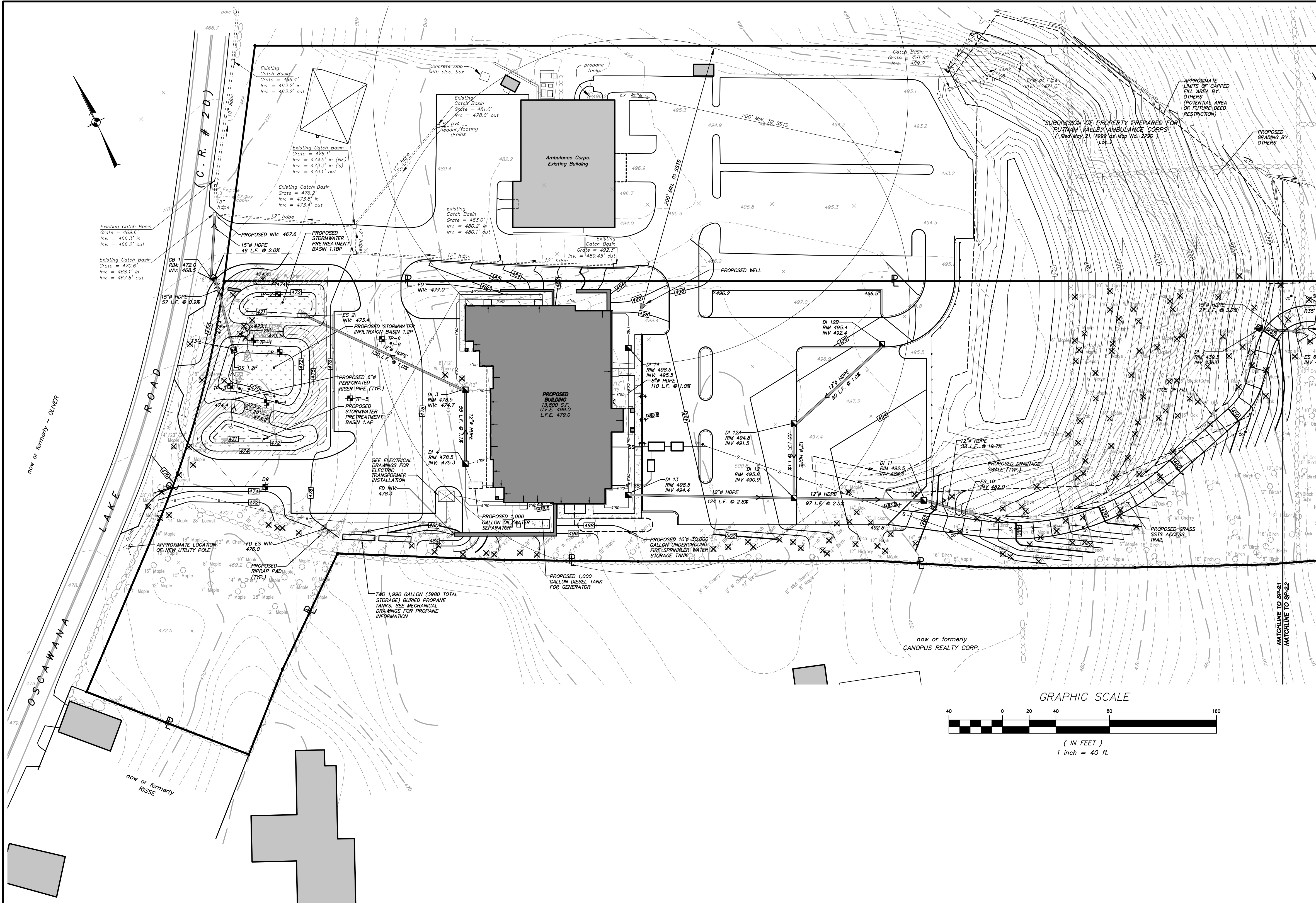




Z:\16\091001003 SP-2.1 - 2.dwg 7/18/2020 10:56:07 AM _insite_ 1:1



LEGEND	
	Existing Property Line
	Existing Wetland Limit Line w/ Flag
	Existing Watercourse
	Wetland Control Line
	Existing Stonewall
	Existing Guide Rail
	Existing 10' Contour
	Existing 2' Contour
	Existing Spot Grade
	Existing Catch Basin
	Existing Pipe (sizes shown)
	Existing Utility Pole
	Existing Tree
	Existing Tree to be Removed
	Proposed 10' Contour
	Proposed 2' Contour
	Proposed Retaining Wall
	Proposed Wood Guide Rail
	Proposed Inlet Protection
	Proposed Drainage Pipe
	Proposed End Section
	Proposed Roof Drain
	Proposed Drainage Swale
	Proposed Sewer Service
	Proposed Buried Electrical Line

STORMWATER MANAGEMENT PRACTICE TESTING RESULTS

DEEP TEST TP1 THROUGH TP6 WERE PERFORMED ON SEPTEMBER 19, 2019 AND OBSERVED BY INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE.

NOTE: NO GROUNDWATER, MOTTILING, OR ROCK ENCOUNTERED UNLESS NOTED.

- TP-1: 0-8" Topsoil
8-64" Light Brown/Tan Silty Sand
(Rock @ 64")
- TP-2: 0-8" Topsoil
8-30" Light Brown Silty Sand
(Rock @ 30")
- TP-3: 0-12" Topsoil
12-72" Light Brown Silty Sand
- TP-4: 0-8" Topsoil
8-36" Tan Silty Sand
36-70" Brown Silty Sand
- TP-5: 0-8" Topsoil
8-70" Light Brown Silty Sand
(Rock @ 70")
- TP-6: 0-8" Topsoil
8-112" Light Brown/Tan Silty Sand
(Rock @ 112")

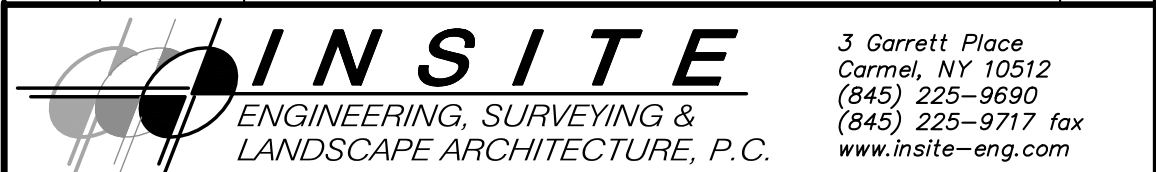
INFILTRATION TESTS WERE PERFORMED ON SEPTEMBER 26, 2019 BY INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE.

- I-3: 20 in/hr
I-4: 23 in/hr
I-6: 22 in/hr

FOR EXISTING TREES & TREES TO BE REMOVED, SEE TABLE ON DRAWING SP-2.2

FOR GENERAL NOTES SEE DRAWING SP-1

9	2-18-20	REVISED PER TOWN COMMENTS	GM
8	1-21-20	REVISED PER TOWN COMMENTS	GM
7	1-8-20	REVISED FOR ZBA SUBMISSION	GM
6	11-6-19	REVISED FOR ZBA SUBMISSION	GM
5	9-13-19	REVISED PER TOWN COMMENTS	MEU
4	07-29-19	REVISED FOR PLANNING BOARD SUBMISSION	KAM
3	12-4-17	GENERAL REVISION	MEU
2	02-24-17	REVISED FOR COORDINATED REVIEW	SJC
1	11-30-16	REVISED FOR TEAM REVIEW	MEU
NO.	DATE	REVISION	BY



PROJECT:
**PUTNAM VALLEY FIRE STATION #1
AND AMENDED SITE PLAN FOR
PUTNAM VALLEY AMBULANCE CORPS**
OSCAWANA LAKE ROAD, TOWN OF PUTNAM VALLEY, COUNTY OF PUTNAM, NEW YORK

DRAWING:
GRADING & UTILITIES PLAN

PROJECT NUMBER	09105.100	PROJECT MANAGER	J.J.C.	DRAWING NO.	SHEET
DATE	11-20-09	DRAWN BY	E.J.K.	SP-2.1	3
SCALE	1" = 40'	CHECKED BY	E.M.S.		

PERMANENT STORMWATER FACILITIES MAINTENANCE SCHEDULE					
PRACTICE/FACILITY	MONTHLY	AFTER MAJOR STORM EVENTS	BI-ANNUALLY	YEARLY	EVERY 5 TO 10 YEARS
GRASS SWALES	-	-	Inspect & clean Mow & remove debris & litter. Revegetate as needed.	-	Inspect for & remove accumulated sediment
SUBSURFACE STORMWATER COLLECTION SYSTEMS	-	-	Inspect & clean	Inspect, clean, repair and/or replace structures. Remove debris.	-
STORMWATER BASINS	Inspect first few months after construction for eroding soils & slumpage & repair immediately	Inspect orifices, inlets & outlets for clogging, eroding soils on the basin berm & embankments, & sources of erosion; & stabilize and/or repair immediately.	Mow berms and exterior embankments Remove debris & litter from basins & outlet structures.	-	Inspect for & remove accumulated sediment

Note: The party responsible for implementation of the maintenance schedule during and after construction is:
Putnam Valley Volunteer Fire Department Inc.
Oscawana Lake Road
Putnam Valley, NY 10579
and/or the current owners of the subject property.

ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE EDUCATION LAW.

SEED MIXES	
	SEED MIX # 1 - Seed Mix for lawn areas, mow strip along roads and all other disturbed areas not receiving other forms of permanent stabilization or seed mix at a rate of 100 lbs. per acre: Kentucky Bluegrass 20% Creeping Red Fescue 40% Perennial Ryegrass 20% Annual Ryegrass 20%
	SEED MIX # 2 - For seeding cut and fill slopes along road and around parking area, for berms, backslopes and interior slopes of stormwater basins, to and all other disturbed areas not receiving other forms of permanent stabilization or seed mix, at a rate of 60 lbs/acre: Native Steep Slopes w/ Annual Rye Grass Seed Mix (ERNMX-181) from Ernst Conservation Seeds of Meadville, PA.
	SEED MIX #3 - For bottoms of stormwater basins and for interior slopes and aquatic bench of pocket pond stormwater management areas, at a rate of 30 lbs/acre: Retention Basin Floor Mix - Low Maintenance (ERNMX-126) from Ernst Conservation Seeds of Meadville, PA.



LEGEND

	Existing Property Line
	Existing Wetland Limit Line #/ Flag
	Existing Watercourse
	Wetland Control Line
	Existing Stonewall
	Existing Guide Rail
	Existing 10' Contour
	Existing 2' Contour
	Existing Spot Grade
	Existing Catch Basin
	Existing Pipe (sizes shown)
	Existing Utility Pole
	Existing Tree
	Existing Tree to be Removed
	Proposed 10' Contour
	Proposed 2' Contour
	Proposed Retaining Wall
	Proposed Wood Guide Rail
	Proposed Inlet Protection
	Proposed Drainage Pipe
	Proposed End Section
	Proposed Roof Drain
	Proposed Drainage Swale
	Proposed Sewer Service
	Proposed Buried Electrical Line

STORMWATER MANAGEMENT PRACTICE TESTING RESULTS

DEEP TEST TP7 THROUGH TP11 WERE PERFORMED ON SEPTEMBER 25, 2019 AND OBSERVED BY
INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE.

NOTE: NO GROUNDWATER, MOTTLING, OR ROCK ENCOUNTERED UNLESS NOTED

TP-7: 0-10" Topsoil
10-72" Tan/Brown Silty Sand with Gravel and Cobble.
Rock @ 72"

TP-8: 0-9" Topsoil
9-76" Tan Brown Compacted Fine Sand and Silt with Gravel and Cobbles
Rock @ 76"

TP-9: 0-14" Topsoil
14-75" Tan Silty Sand with Gravel and Cobbles
75-124"+ Compact Tan Silty Sand with Gravel and Cobbles

TP-10: 0-15" Topsoil
15-53" Tan Silty Sand with Gravel and Cobbles
53-90" Compact Tan Silty Sand with Gravel and Cobbles

TP-11: 0-8" Topsoil
8-69" Brown Tan Silty Sand with Gravel and Cobbles
Rock @ 69"

INFILTRATION TESTS WERE PERFORMED ON SEPTEMBER 26, 2019 BY INSITE ENGINEERING, SURVEYING
& LANDSCAPE ARCHITECTURE.

1-7: 33 in/hr

1-9: 42 in/hr

1-11: 31 in/hr

REQUIRED POST-CONSTRUCTION STORMWATER
MANAGEMENT PRACTICE COMPONENTS:

- Pursuant to the NYSDEC "SPDES General Permit for Stormwater Discharges from Construction Activity" (GP-0-15-002), all construction projects needing post-construction stormwater management practices shall prepare a SWPPP that also includes practices designed in conformance with the most current version of the technical standard, New York State Stormwater Management Design Manual ("Design Manual"). Where post-construction stormwater management practices are not designed in conformance with this technical standard, the owner or operator must demonstrate equivalence to the technical standard. The following list of SWPPP components is provided in accordance with Part III.B.2-a-g and III.B.3:
- a. Identification of all post-construction stormwater management practices to be constructed as part of the project; This plan, and details/notes shown herein serve to satisfy this SWPPP requirement.
 - b. A site map/construction drawing(s) showing the specific location and size of each post-construction stormwater management practice; This plan, and details/notes shown herein serve to satisfy this SWPPP requirement.
 - c. A Stormwater Modeling and Analysis Report including pre-development conditions, post-development conditions, the results of the stormwater modeling, a summary table demonstrating the model results, and a design criteria in conformance with the sizing criteria, identification of and justification for any deviations from the Design Manual, and identification of any design criteria that are not required. The required analysis is provided in the report titled Preliminary Stormwater Pollution Prevention Plan for Putnam Parkway Fire Station #1.
 - d. Soil testing results and locations. This SWPPP requirement is to be completed.
 - e. Infiltration testing results. This SWPPP requirement is to be completed.
 - f. An operations and maintenance plan that includes inspection and maintenance schedules and actions to ensure continuous and effective operation of each post-construction stormwater management practice. The plan shall identify the entity that will be responsible for the long term operation and maintenance of each practice. The Permanent Stormwater Facilities Maintenance Schedule provided on these plans serves to satisfy this requirement.
2. **Enhanced Phosphorus Removal Standards** – Beginning on September 30, 2008, all construction projects identified in Table 2 of Appendix B that are located in the watersheds of Appendix C shall prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the Enhanced Phosphorus Removal Standards included in the most current version of the technical standard, New York Stormwater Management Design Manual. Because this project is not located within any of the identified watersheds, this requirement is not applicable to this project.

TABLE OF EXISTING TREES & TREES TO BE REMOVED (TM# 72.20-01-7.12)

18" MARLE	8" MARLE	6" MARLE	7" MARLE	10" MARLE	8" MARLE	10" BROWN	8" BROWN	14" HOKORY	20" LOGUST	12" CHERRY	22" OAK	8" OAK
14" MARLE	6" MARLE	6" MARLE	6" MARLE	8"7/8" MARLE	4"7/8" MARLE	16" BROWN	16" BROWN	12" HOKORY	20" LOGUST	12" CHERRY	12" OAK	6" OAK
14"5/8"24" MARLE	12" MARLE	7" MARLE	8"7/8" MARLE	10" MARLE	12" MARLE	16" BROWN	16" BROWN	16" HOKORY	8" LOGUST	16" CHERRY	18" OAK	42" OAK
8"1/4" MARLE	16" MARLE	7" MARLE	6" MARLE	20" MARLE	6" MARLE	10" BROWN	16" BROWN	7" HOKORY	24" LOGUST	10" CHERRY	20" OAK	10" OAK
12" MARLE	12" MARLE	10" MARLE	7" MARLE	7" MARLE	14" MARLE	12" BROWN	16" BROWN	6" HOKORY	15" LOGUST	8" CHERRY	12" OAK	16" OAK
14" MARLE	8" MARLE	6" MARLE	10" MARLE	6"7/8" MARLE	7" MARLE	14" BROWN	10" BROWN	8" HOKORY	16" LOGUST	14" CHERRY	10" OAK	7" OAK
16" MARLE	14" MARLE	8" MARLE	8" MARLE	6" MARLE	14" MARLE	10" BROWN	12" BROWN	6"7/8" HOKORY	14" LOGUST	6" CHERRY	10" OAK	15" OAK
18" MARLE	18" MARLE	14" MARLE	6" MARLE	8" MARLE	8" MARLE	16" BROWN	16" BROWN	10" HOKORY	12"7/8" LOGUST	16" CHERRY	18" OAK	14" OAK
16" MARLE	14" MARLE	16" MARLE	4"7/8" MARLE	16"7/8" MARLE	16" MARLE	10" BROWN	7" BROWN	8" HOKORY	16" LOGUST	14" CHERRY	16" OAK	15" OAK
16" MARLE	6" MARLE	5"1/8" MARLE	7" MARLE	6"7/8" MARLE	15" MARLE	6" BROWN	10" BROWN	7" HOKORY	28" LOGUST	16" CHERRY	6" OAK	10" OAK
7" MARLE	6" MARLE	8" MARLE	8" MARLE	6"7/8" MARLE	5"1/4" MARLE	16" BROWN	10" BROWN	8" HOKORY	18" LOGUST	6"7/8" CHERRY	14" OAK	10" OAK
12" MARLE	8" MARLE	16" MARLE	7"7"10" MARLE	16" MARLE	15" MARLE	14" BROWN	8" BROWN	18" HOKORY	30" TULIP	6"7/8"7/16" CHERRY	12" OAK	6" OAK
10" MARLE	8" MARLE	7" MARLE	12" MARLE	12" MARLE	6"10" MARLE	14" BROWN	10" BROWN	14" HOKORY	26" TULIP	6"7/8"12" CHERRY	12" OAK	15" OAK
7" MARLE	16" MARLE	6" MARLE	12" MARLE	6" MARLE CLUMP	6" MARLE	8" BROWN	10" BROWN	12" HOKORY	10" MALUS	16" CHERRY	42" OAK	15" OAK
10" MARLE	12" MARLE	12" MARLE	7"7/8" MARLE	10" MARLE	6"1/2" MARLE	8" BROWN	8" BROWN	18" HOKORY	12" CHERRY	4"7/8"7/8" CHERRY	12" OAK	15" OAK
10" MARLE	20" MARLE	20" MARLE	10" MARLE	10" MARLE	10" MARLE	10" BROWN	10" BROWN	6" CHERRY	14" CHERRY	14" OAK	15" OAK	12" OAK
7" MARLE	18" MARLE	6" MARLE	3"7/8" MARLE	12" MARLE	8"7/10"12" MARLE	16" BROWN	10" BROWN	6"7/8" CEDAR	6" MARLE	8" CHERRY	7" OAK	10" OAK
12" MARLE	16" MARLE	12" MARLE	7" MARLE	18" MARLE	12" MARLE	12" BROWN	12" BROWN	6" CEDAR	17" MARLE	12" OAK	16" OAK	7" OAK
28" MARLE	28" MARLE	8" MARLE	8" MARLE	7" MARLE	7" MARLE	14" BROWN	6" BROWN	8" CEDAR	12" MARLE	8" OAK	12" OAK	7" OAK
7" MARLE	7" MARLE	7" MARLE	6"7"7" MARLE	10" MARLE	10" MARLE	15" BROWN	6" BROWN	6" CEDAR	6" CEDAR	12" BLACK GUM	14" OAK	10" OAK
6" MARLE	6" MARLE	12" MARLE	6" MARLE	6" MARLE	8" MARLE	16" BROWN	16" BROWN	7" CEDAR	6" CEDAR	18" OAK	18" OAK	7" OAK
6" MARLE	16" MARLE	16" MARLE	16" MARLE	15" MARLE	15" MARLE	10" BROWN	8" BROWN	10" CEDAR	22" BLACK GUM	16" OAK	20" OAK	7" OAK
8" MARLE	6" MARLE	8" MARLE	6" MARLE	10" MARLE	14"1/8" MARLE	6" BROWN	8" BROWN	8" CEDAR	10" BLACK GUM	16" OAK	16" OAK	12" OAK
10" MARLE	10" MARLE	8" MARLE	12" MARLE	6" MARLE	10" MARLE	16" BROWN	6" BROWN	8" CEDAR	18" BLACK GUM	18" OAK	20" OAK	7" OAK
12" MARLE	8" MARLE	7" MARLE	10" MARLE	16" MARLE	7" MARLE	18" BROWN	12" BROWN	10" CEDAR	16" BLACK GUM	14" OAK	15" OAK	7" OAK
10" MARLE	16"7/8" MARLE	7"1/2" MARLE	10" MARLE	10" MARLE	7"7/8"10"14" MARLE	6" BROWN	12" BROWN	6"7"7" CEDAR	6" BLACK GUM	14" OAK	12" OAK	10" OAK
4"5" MARLE CLUMP	6" MARLE	8" MARLE	10"15" MARLE	16" MARLE	8" MARLE	8" BROWN	8" BROWN	3"7"7" CEDAR	6" BLACK GUM	12" OAK	10" OAK	15" OAK
12"20"20"24" MARLE	6" MARLE	8" MARLE	28" MARLE	12" MARLE	32" MARLE	12" BROWN	8" BROWN	8" CEDAR	10"7"10" BLACK GUM	12" OAK	8" OAK	8" OAK
4"12" MARLE	7" MARLE	7" MARLE	7"7/8" MARLE	10" MARLE	15" MARLE	16" BROWN	16" BROWN	8" CEDAR	6" CHERRY	16" OAK	12" OAK	12" OAK
6" MARLE	16" MARLE	7" MARLE	7"7/8" MARLE	7" MARLE	7" MARLE	18" BROWN	8" BROWN	4"7"8"				
6" MARLE	16" MARLE	6" MARLE	6"7/8" MARLE	30" MARLE	12" BROWN	10" BROWN	7" HOKORY	8" CEDAR	12" CHERRY	15" OAK	16" OAK	10" OAK
6" MARLE	12" MARLE	6" MARLE	8" MARLE	12" BROWN	10" BROWN	12" BROWN	12" HOKORY	12" CEDAR	14" CHERRY	16" OAK	24" OAK	10" OAK
6" MARLE	14" MARLE	12"15" MARLE	10" MARLE	8" MARLE	16" BROWN	16" BROWN	12" HOKORY	6" BEECH	12" CHERRY	18" OAK	18" OAK	10" OAK
8" MARLE	6" MARLE	6" MARLE	12" MARLE	12" MARLE	14" BROWN	15" BROWN	10" HOKORY	16"7/8" ASH	15" CHERRY	10" OAK	20" OAK	12" OAK
8" MARLE	6" MARLE	12"15" MARLE	10" MARLE	10" MARLE	20" BROWN	10" BROWN	14" HOKORY	18"1/8" ASH	6" CHERRY	6" OAK	16" OAK	15" OAK
10" MARLE	6" MARLE	6"7/8" MARLE	15" BROWN	15" BROWN	15" BROWN	14" HOKORY	8"7/8"10" ASH	14" CHERRY	20" OAK	16" OAK	18" OAK	10" OAK
5"6" MARLE	16" MARLE	17" MARLE	8" MARLE	16" BROWN	24" BROWN	10" BROWN	8" HOKORY	7" ASH	10" CHERRY	16" OAK	16" OAK	7" OAK
6" MARLE	6" MARLE	8" MARLE	7" MARLE	8" BROWN	6" BROWN	10" HOKORY	12" HOKORY	7" ASH	10"7/16" CHERRY	14" OAK	16" OAK	12" OAK
18" MARLE	7" MARLE	8" MARLE	6"8" MARLE CLUMP	10" MARLE	22" BROWN	10" BROWN	10" HOKORY	8" ASH	6" CHERRY	28" OAK	10" OAK	6" OAK
20" MARLE	7" MARLE	6" MARLE	10" MARLE	8" MARLE	6" BROWN	6" BROWN	12" HOKORY	8" ASH	8" CHERRY	16" OAK	10" OAK	6" OAK
7"8" MARLE	6" MARLE	6"12" MARLE	18" MARLE	14" MARLE	10" BROWN	7" BROWN	12" HOKORY	6" ASH	8" CHERRY	22" OAK	8" OAK	8" OAK

Removals for the remediation: 190
Removals in the Protected Zone: 28
Clear Cutting for the septic: 32
Other removals: 16
Total Removals: 266

ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION
OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF
SECTION 7209 OF ARTICLE 145 OF THE EDUCATION LAW.

FOR GENERAL NOTES SEE DRAWING SP-1

8	2-18-20	REVISED PER TOWN COMMENTS	GM
7	1-21-20	REVISED PER TOWN COMMENTS	GM
6	11-6-19	REVISED FOR ZBA SUBMISSION	GM
5	9-13-19	REVISED PER TOWN COMMENTS	MEU
4	07-29-19	REVISED FOR PLANNING BOARD SUBMISSION	KAM
3	12-4-17	GENERAL REVISION	MEU
2	02-24-17	REVISED FOR COORDINATED REVIEW	SJC
1	11-30-16	REVISED FOR TEAM REVIEW	MEU
NO.	DATE	REVISION	BY



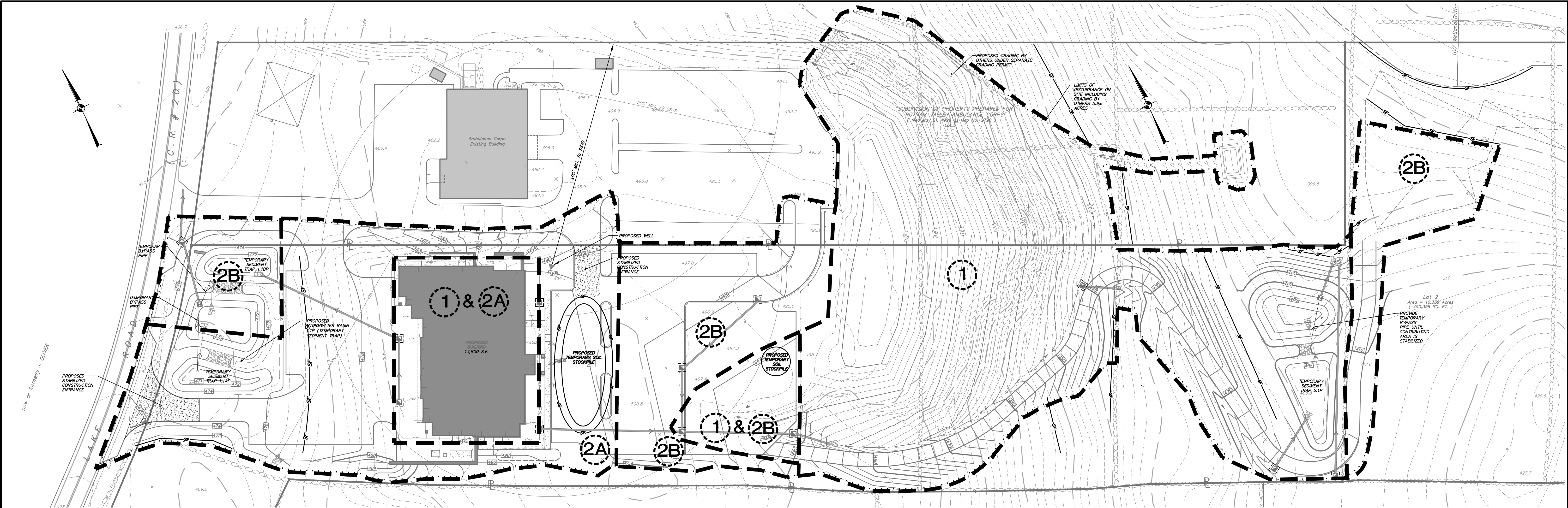
3 Garrett Place
Carmel, NY 10512
(845) 225-9690
(845) 225-9717 fax
www.insite-eng.com

PROJECT:
PUTNAM VALLEY FIRE STATION #1
AND AMENDED SITE PLAN FOR
PUTNAM VALLEY AMBULANCE CORP
OSCEOLA LAKE ROAD, TOWN OF PUTNAM VALLEY, COUNTY OF PUTNAM, NEW YORK

WING:

GRADING & UTILITIES PLAN

PROJECT NUMBER	09105.100	PROJECT MANAGER	J.J.C.	DRAWING NO. SP-2.2	SHEET 4 10
DATE	11-20-09	DRAWN BY	E.J.K.		
SCALE	1" = 40'	CHECKED BY	E.M.S.		



EROSION & SEDIMENT CONTROL NOTES:

- The owner's field representative (O.F.R.) will be responsible for the implementation and maintenance of sediment and erosion control measures on this site prior to and during construction.
- All construction activities involving the removal or disposition of soil are to be provided with appropriate protective measures to minimize erosion and contain sediment disposition within. Minimum soil erosion and sediment control measures shall be implemented as shown on the plans and shall be installed in accordance with "New York Standards and Specifications For Erosion and Sediment Control," latest edition.
- Wherever feasible, natural vegetation should be retained and protected. Disturbance shall be minimized in the areas required to perform construction. No more than 5 acres of unprotected soil shall be exposed at any one time.
- When land is exposed during development, the exposure shall be kept to the shortest practical period of time, but in no case more than 14 days after the construction activity in that portion of the site has ceased. Disturbance shall be minimized in the areas required to perform construction.
- All construction vehicles shall be kept clear of the watercourses and wetland control areas outside the areas of proposed development. Silt fence and orange construction fence shall be installed in the areas where the grading is in close proximity of the watercourses or wetland control areas.
- The stabilized construction entrances, silt fence, and orange construction fence shall be installed as shown on the plans prior to beginning any clearing, grubbing or earthwork.
- All topsoil to be stripped from the area being developed shall be stockpiled and immediately seeded with *Lolium perenne aristatum* or *Lolium perenne multiflorum* for temporary stabilization. *Lolium perenne aristatum* shall be used for winter seeding and *Lolium perenne multiflorum* shall be used for spring and summer seeding.
- Any graded areas not subject to further disturbance or construction traffic shall, within 10 days of final grading, receive permanent vegetation cover in combination with a suitable mulch. All seeded areas to receive a minimum 4" topsoil (from stockpile area) and be seeded and mulched as follows:
• Seed mixture to be planted between March 21 and May 20, or between August 15 and October 15 or as directed by project representative at a rate of 50 pounds per acre in the following proportions:
Kentucky Bluegrass 20%
Creeping Red Fescue 40%
Perennial Ryegrass 20%
Annual Ryegrass 20%
• Mulch: Salt hay or small grain straw applied at a rate of 90 lbs./1000 S.F. or 2 tons/acre, to be applied and anchored according to "New York Standards and Specification For Erosion and Sediment Control," latest edition.
- Grass seed mix may be applied by either mechanical or hydroseeding methods. Hydroseeding shall be performed in accordance with the current edition of the "NYSDOT Standard Specification, Construction and Materials, Section 610-3.02, Method No. 1".
- Cut or fill slopes 2H:1V or steeper shall be stabilized immediately after grading with Curlex I Single Net Erosion Control Blanket, or approved equal.
- Paved roadways shall be kept clean at all times.
- The site shall at all times be graded and maintained such that all stormwater runoff is diverted to soil erosion and sediment control facilities.
- All storm drainage outlets shall be stabilized, as required, before the discharge points become operational.
- Stormwater from disturbed areas must be passed through erosion control barriers before discharge beyond disturbed areas or discharged into other drainage systems.
- Sedimentation and erosion control measures shall be inspected and maintained on a daily basis by the O.F.R. to insure that channels, temporary and permanent ditches and pipes are clear of debris, that embankments and berms have not been breached and that all straw bales and silt fences are intact. Any failure of sediment and erosion control measures shall be immediately repaired by the contractor and inspected for approval by the O.F.R. and/or site engineer.
- Dust shall be controlled by sprinkling or other approved methods as necessary, or as directed by the O.F.R.
- Cut and fill shall not endanger adjoining property, nor divert water onto the property of others.
- All fills shall be placed and compacted in 6" lifts to provide stability of material and to prevent settlement.
- The O.F.R. shall inspect downstream conditions for evidence of sedimentation on a weekly basis and after rainstorms.
- As warranted by field conditions, special additional sedimentation and erosion control measures, as specified by the site engineer and/or the Town Engineer shall be installed by the contractor.
- Erosion control measures shall remain in place until all disturbed areas are suitably stabilized.

- After completion of the site improvements, the owner will assume responsibility for maintenance of the roads, parking lots, drainage systems and stormwater facilities. Each spring the paved areas shall be cleaned to remove the winter accumulation of traction sand. After this is completed all drain inlet and catch basin sumps should be cleaned. All pipes should be checked for debris and blockage and cleaned as required. During the cleaning process, the drain inlets, catch basins and pipes should be inspected for structural integrity and overall condition. Repairs and/or replacements should be made as required.
- Inspection of the stormwater basins should be performed every 6 months and after large storm events. These inspections should, at a minimum, check the outlet pipes for blockage and the general overall integrity of the basin and appurtenances.
- Maintain basin vegetation including removal of trees and replacement of vegetation that should die. Remove any litter which accumulates as necessary.
- Refer to the Stormwater Pollution Prevention Plan for additional details regarding long-term maintenance of the storm drainage facilities.

EROSION AND SEDIMENT CONTROL MAINTENANCE SCHEDULE

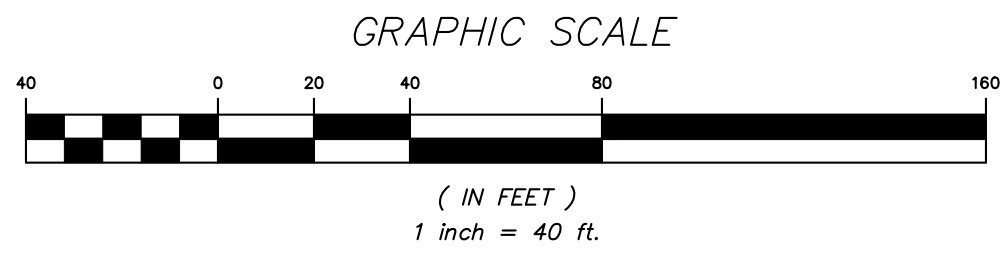
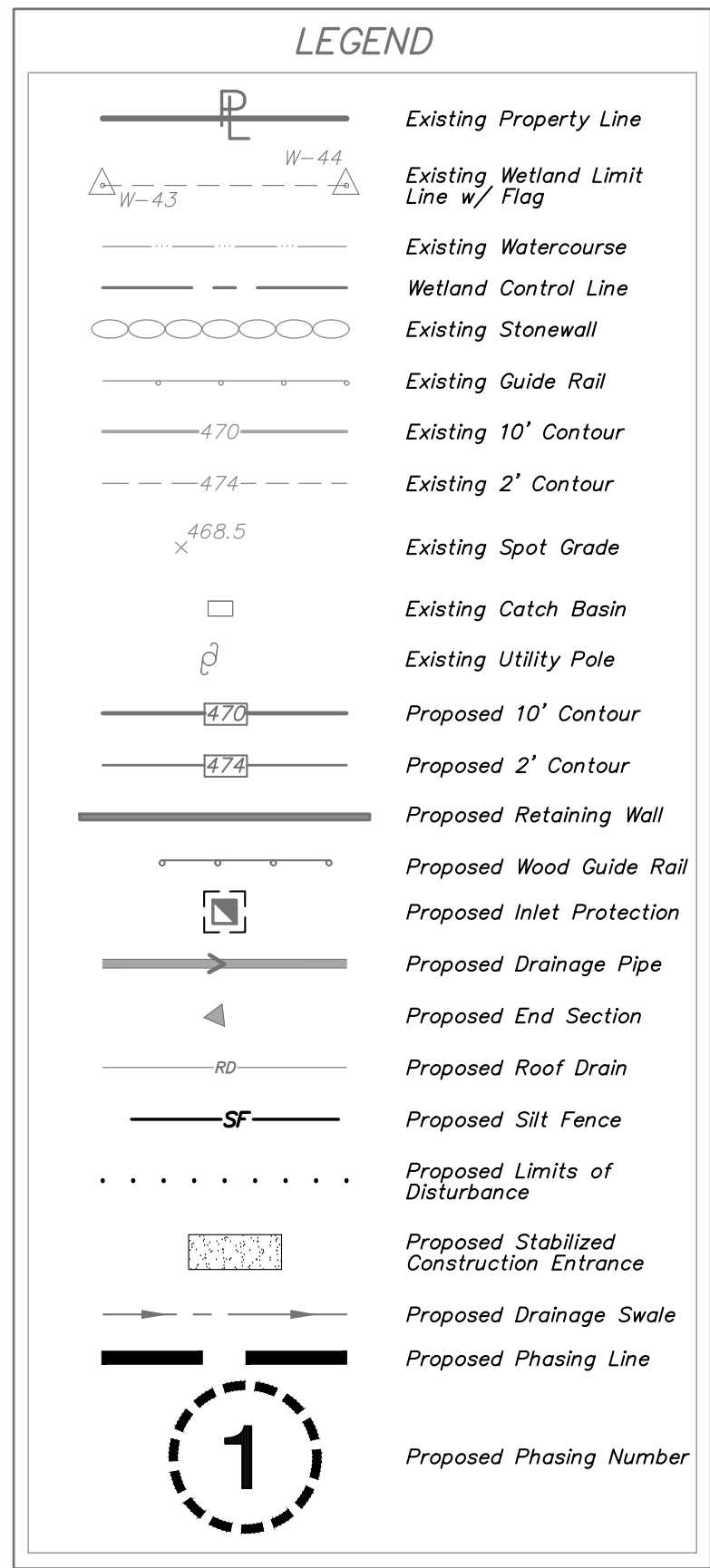
MONITORING REQUIREMENTS				MAINTENANCE REQUIREMENTS		
PRACTICE	DAILY	WEEKLY	AFTER RAINFALL	DURING CONSTRUCTION	AFTER CONSTRUCTION	
SILT FENCE BARRIER	—	Inspect	Inspect	Clean/Replace	Remove	
STABILIZED CONSTRUCTION ENTRANCE	Inspect	—	Inspect	Clean/Replace Stone and Fabric	Remove	
DUST CONTROL	Inspect	—	Inspect	Mulching/Spraying Water	N/A	
*VEGETATIVE ESTABLISHMENT	—	Inspect	Inspect	Water/Reseed/Renulch	Reseed to 80% Coverage	
INLET PROTECTION	—	Inspect	Inspect	Clean/Repair/Replace	Remove	
SOIL STOCKPILES	—	Inspect	Inspect	Mulching/Silt Fence Repair	Remove	
SWALES	—	Inspect	Inspect	Clean/Mulch/Repair	Mow Permanent Grass/Replace/Repair Rip Rap	
CHECK DAMS	—	Inspect	Inspect	Clean/Replace Stones/Repair	Clean/Replace Stones/Repair	
CONCRETE DRAINAGE STRUCTURES	—	Inspect	Inspect	Clean Sumps/Remove Debris/Repair/Replace	Clean Sumps/Remove Debris/Repair/Replace	
DRAINAGE PIPES	—	Inspect	Inspect	Clean/Repair	Clean/Repair	
ROAD & PAVEMENT	—	Inspect	Inspect	Clean	Clean	
*STORMWATER TRAP/BASIN	—	Inspect	Inspect	Clean/Mulch/Repair/Reseed	See Permanent Stormwater Facilities Maintenance Schedule	

* Permanent vegetation is considered stabilized when 80% of the plant density is established. Erosion control measures shall remain in place until all disturbed areas are permanently stabilized.
Note: The party responsible for implementation of the maintenance schedule during and after construction is:
Putnam Valley Volunteer Fire Department Inc.
Oscawana Lake Road
Putnam Valley, NY 10579
and/or the current owner(s) of the subject property.

REQUIRED EROSION CONTROL SWPPP CONTENTS:

Pursuant to the NYSDEC "SPDES General Permit for Stormwater Discharges from Construction Activity" (GP-0-15-002), all Stormwater Pollution Prevention Plan's (SWPPP) shall include erosion and sediment control practices designed in conformance with the most current version of the technical standard, "New York Standards and Specifications for Erosion and Sediment Control." Where erosion and sediment control practices are not designed in conformance with this technical standard, the owner or operator must demonstrate equivalence to the technical standard. The following list of required SWPPP components is provided in accordance with Part III.B.1a-l of General Permit GP-0-15-002:

- Background Information: The subject project consists of the construction of a firehouse to be serviced by a drilled well and subsurface sewage treatment system (SSTS).
- Site map / construction drawing: This plan serves to satisfy this SWPPP requirement.
- Description of the soils present at the site: Onsite soils located within the proposed limits of disturbance consist of Charlton-Clifffield complex (CrC), Charlton loam (ChE), Paxton fine sandy loam - 2-8% slopes (PnB), Paxton fine sandy loam - 8-15% slopes (PnB), Paxton fine sandy loam - 15-25% slopes (PnB), Paxton fine sandy loam - 8-15% slopes, very stony (PnB), Leicester loam (LeB) as identified on the Soil Conservation Service Web Soil Survey. These soil types belong to the Hydrologic Soil Groups "B" and "C".
- Construction phasing plan / sequence of operations: The project will not be phased. A Construction Sequence and Erosion and Sediment Control Maintenance Schedule has been provided. The Sedimentation and Erosion Control Notes contained hereon outline a general sequence of operations for the proposed project. In general all erosion and sediment control facilities shall be installed prior to commencement with land disturbing activities, and areas of disturbance shall be limited to the shortest period of time as practicable. As less than five acres of disturbance is proposed all site activity can occur concurrently and does not need to be phased.
- Description of erosion and sediment control practices: This plan, and details / notes shown hereon serve to satisfy this SWPPP requirement.
- Temporary and permanent soil stabilization plan: The Sedimentation and Erosion Control Notes and Details provided hereon identify temporary and permanent stabilization measures to be employed with respect to specific elements of the project, and at the various stages of development.
- Site map / construction drawing: This plan serves to satisfy this SWPPP requirement.
- The dimensions, material specifications, installation details, and operation and maintenance requirements for all erosion and sediment control practices: The details, Sedimentation and Erosion Control Notes and Erosion and Sediment Control Maintenance Schedule serve to satisfy this SWPPP requirement.
- An inspection schedule: Inspections are to be performed weekly and by a qualified professional as required by the General Permit GP-0-15-002. In addition the Owner's Field Representative (OFR) shall perform additional inspections as cited in the Sedimentation and Erosion Control Notes.
- A description of pollution prevention measures that will be used to control litter, construction chemicals and construction debris: In general, all construction litter / debris shall be collected and removed from the site. The general contractor shall supply either waste barrels or dumpster for proper waste disposal. Any construction chemicals utilized during construction shall either be removed from site daily by the contractor or stored in a structurally sound and weatherproof building. No hazardous waste shall be disposed of onsite, and shall ultimately be disposed of in accordance with all federal, state and local regulations. Material Safety Data Sheets (MSDS), material inventory, and emergency contact numbers shall be maintained by the general contractor for all construction chemicals utilized onsite. Finally, temporary sanitary facilities (portable toilets) shall be provided onsite during the entire length of construction, and inspected weekly for evidence of leaking holding tanks.
- A description and location of any stormwater discharges associated with industrial activity other than construction at the site: There are no known industrial stormwater discharges present or proposed at the site.
- Identification of any elements of the design that are not in conformance with the technical standard, "New York Standards and Specifications for Erosion and Sediment Control." All proposed elements of this SWPPP have been designed in accordance with the "New York Standards and Specifications for Erosion and Sediment Control."



**Construction Sequence
Phase 1 (3.4 Acres)**

- Install stabilized construction entrance and silt fence in general locations indicated on the plan.
- Clear and grub trees in limits of Phase 1.
- Complete capping activities per plans prepared by HDR.
- Construct drainage structures and piping from SDI 16 to ES 15.
- Construct temporary sediment trap 2.1P and stormwater basin 2.2P. Provide bypass pipe from 2.1P to outlet structure.

Phase 2A (1.4 Acres) (Excluding 0.4 Acres Phase 1 Overlap)

- Phase 2A can take place at the same time as Phase 1.
- Clear and grub trees in limits of disturbance.
- Install silt fence in general locations indicated on the plan.
- Construct temporary sediment trap 1.1P in front. Install outlet structure, drainage piping and temporary outlet.
- Begin clearing and grubbing operations associated with building and parking areas.
- Strip and stockpile topsoil on site for later use in lawn and landscape areas.
- Begin excavation for foundation and lower parking lot grading.

Phase 2B (1.4 Acres)

- Once Phase 1 areas are stabilized, begin Phase 2B.
- Install silt fence in general locations indicated on the plan.
- Install SSTS and well.
- Install drainage structures and piping, as well as other utilities as required.
- Upon completion of grading operations, install finished driveway surfaces.
- Topsoil, seed, and mulch all disturbed areas as soon as practical in accordance with the Sedimentation and Erosion Control Notes contained on this page.
- Construct stormwater basin 1.2P.
- After completion of construction activities and after all of the contributing areas to the stormwater practices have been permanently stabilized, convert the temporary sediment traps to permanent stormwater basins and remove temporary bypass pipe in accordance with the plans and details. Remove accumulated sediment from traps and outlet structures. Establish the final vegetation in the basins.

FOR GENERAL NOTES SEE DRAWING SP-1

2	2-18-20	REVISED PER TOWN COMMENTS	GM
1	1-21-20	REVISED PER TOWN COMMENTS	GM
NO.	DATE	REVISION	BY

ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.

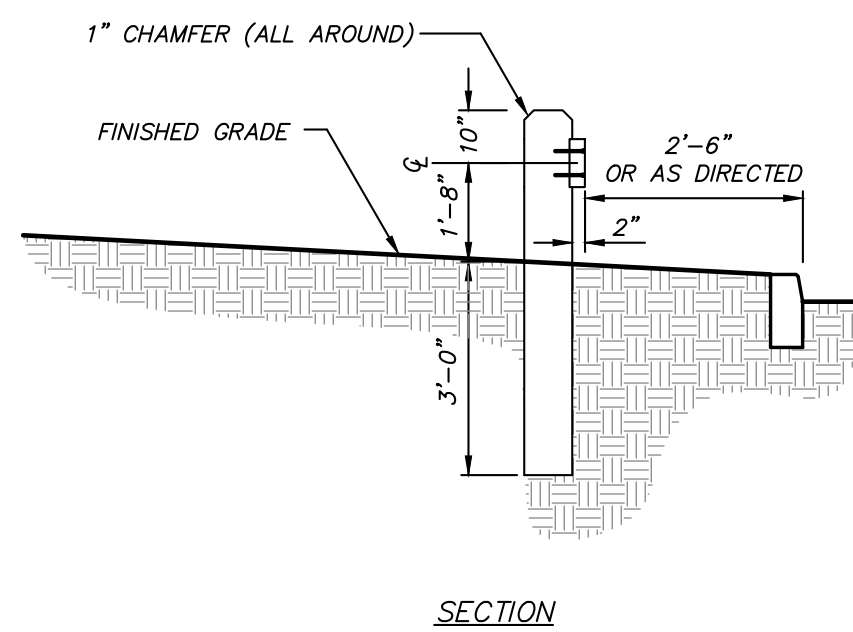
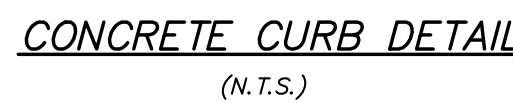
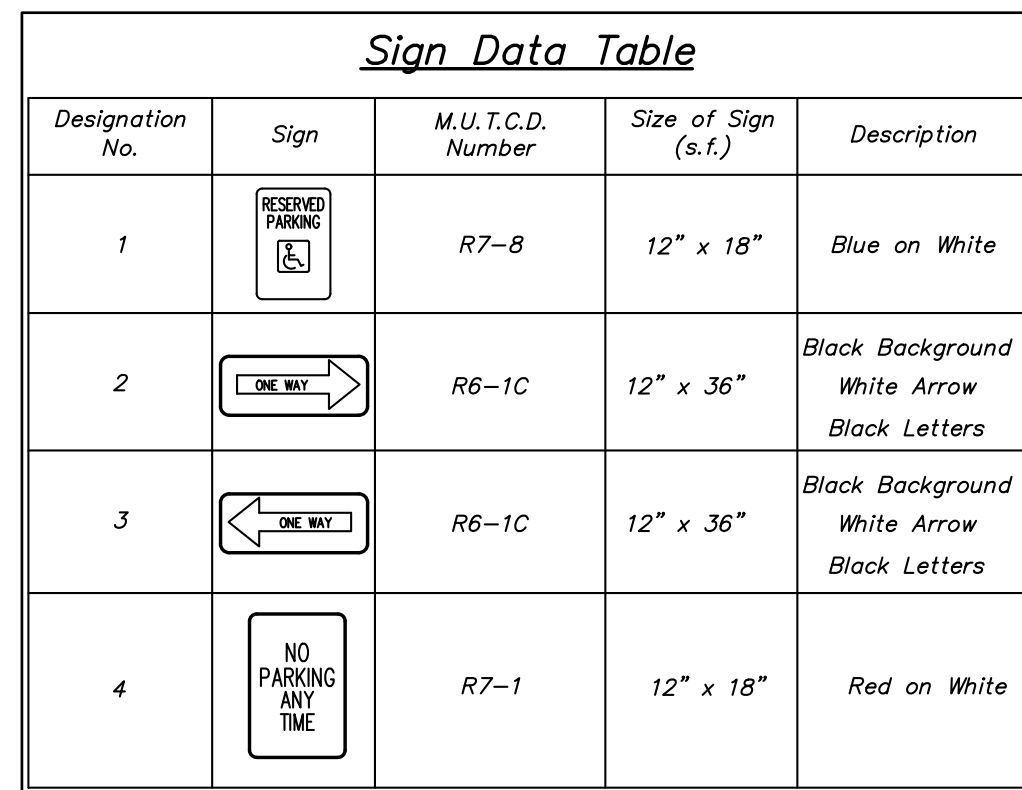
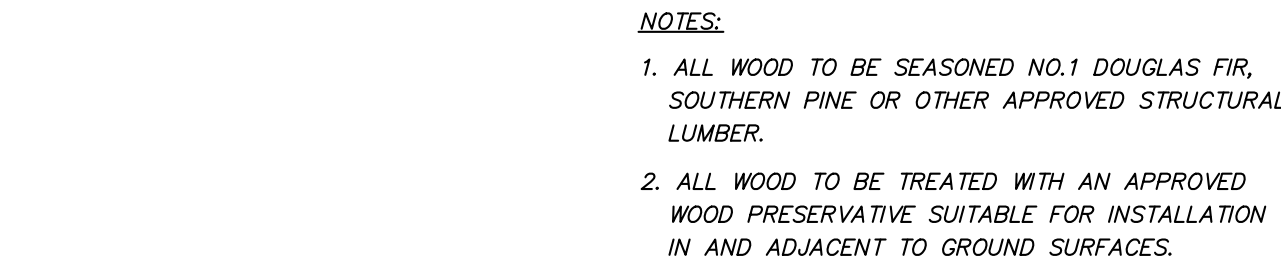
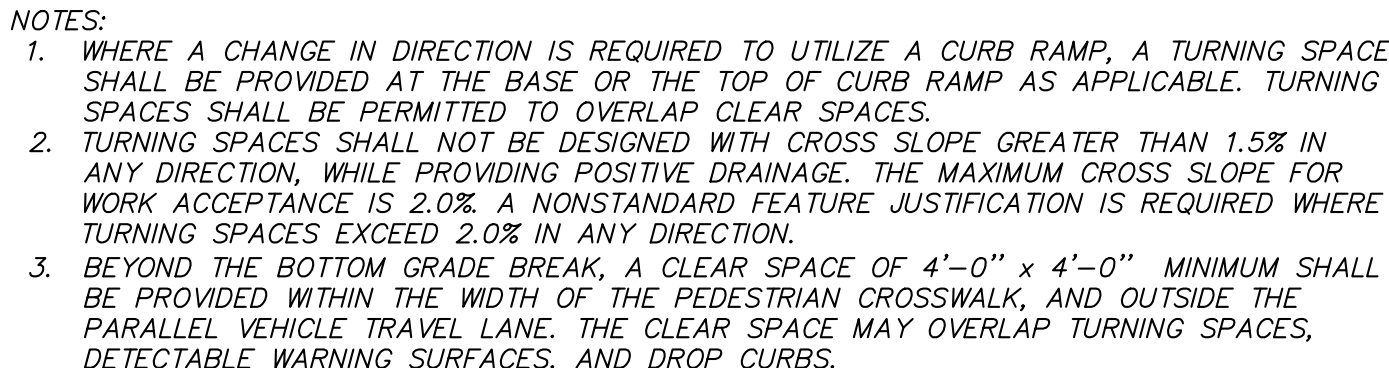
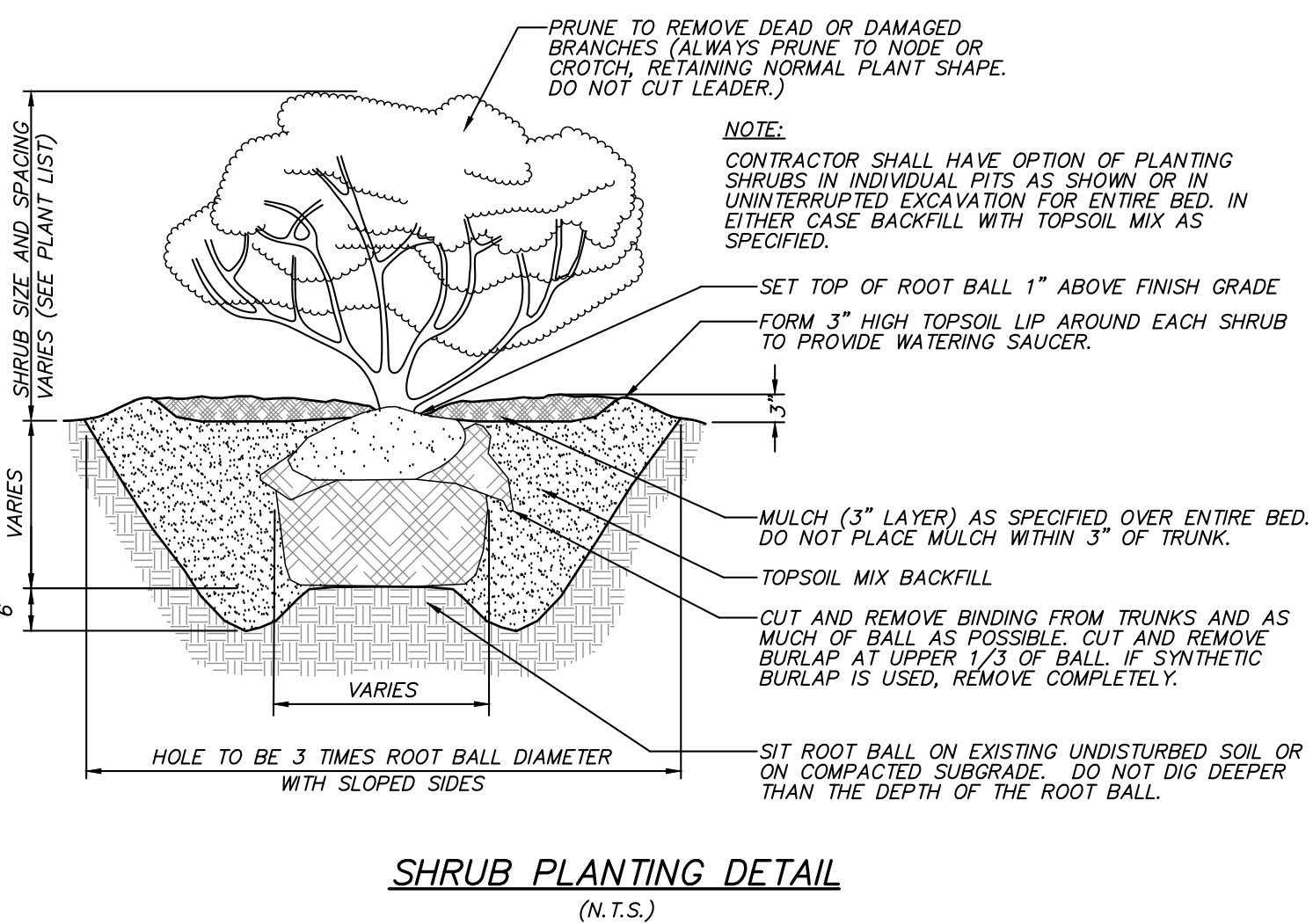
3 Garrett Place
Coronel, NY 10512
(845) 225-9690
(845) 225-9717 fax
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PROJECT:
**PUTNAM VALLEY FIRE STATION #1
AND AMENDED SITE PLAN FOR
PUTNAM VALLEY AMBULANCE CORPS**
OSCAWANA LAKE ROAD, TOWN OF PUTNAM VALLEY, COUNTY OF PUTNAM, NEW YORK


DRAWING:
**EROSION & SEDIMENT CONTROL &
PHASING PLAN**

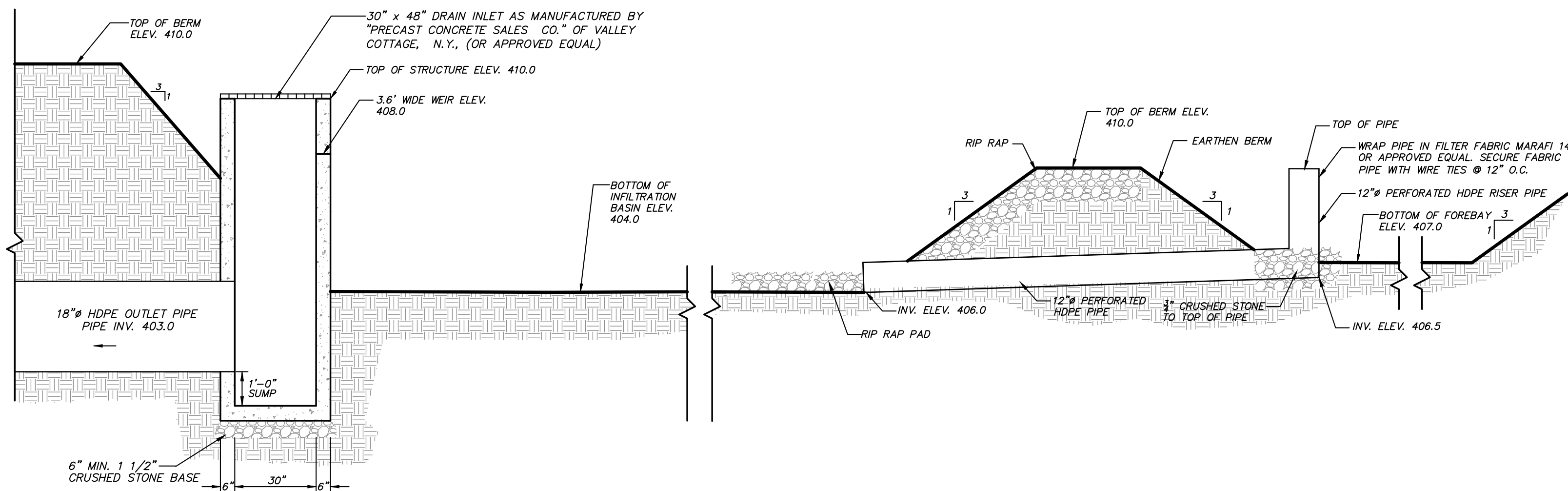
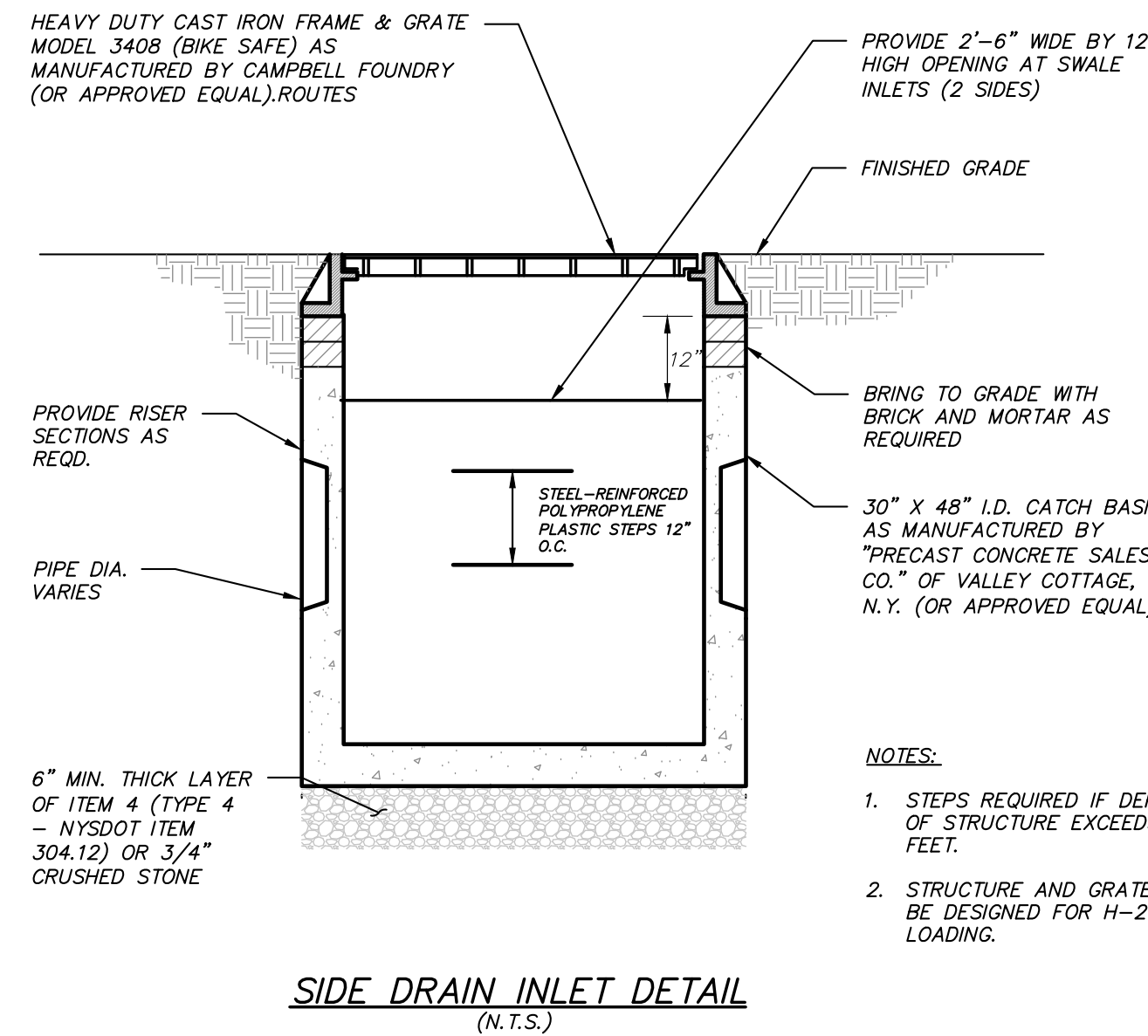
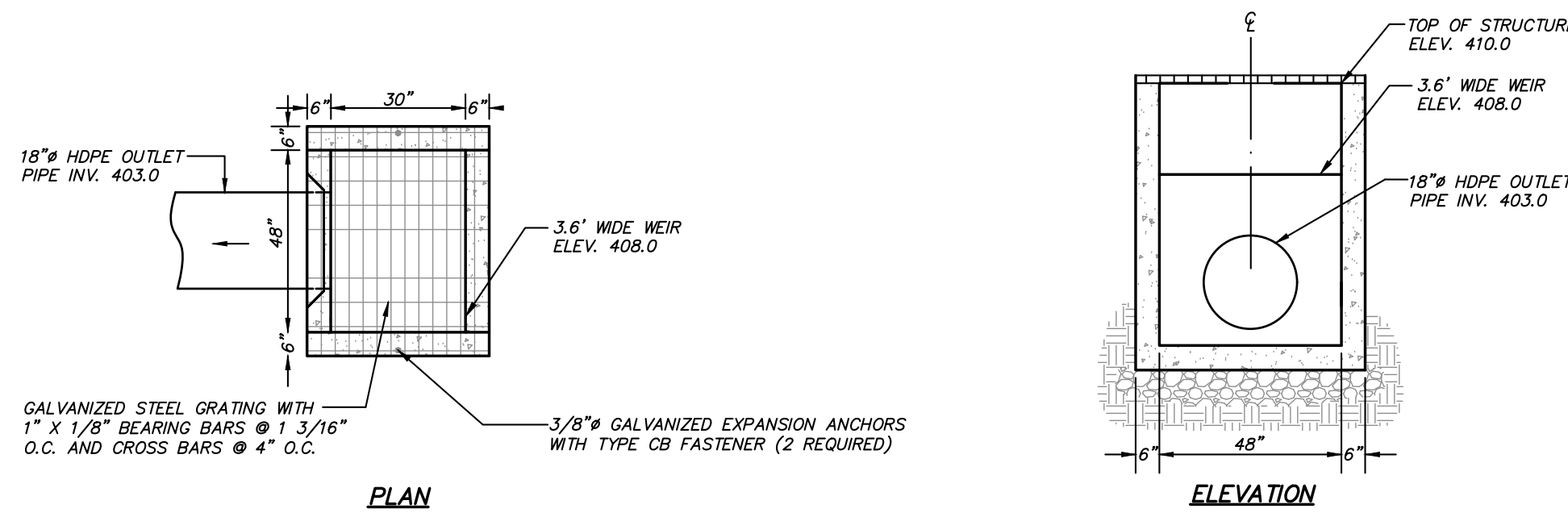
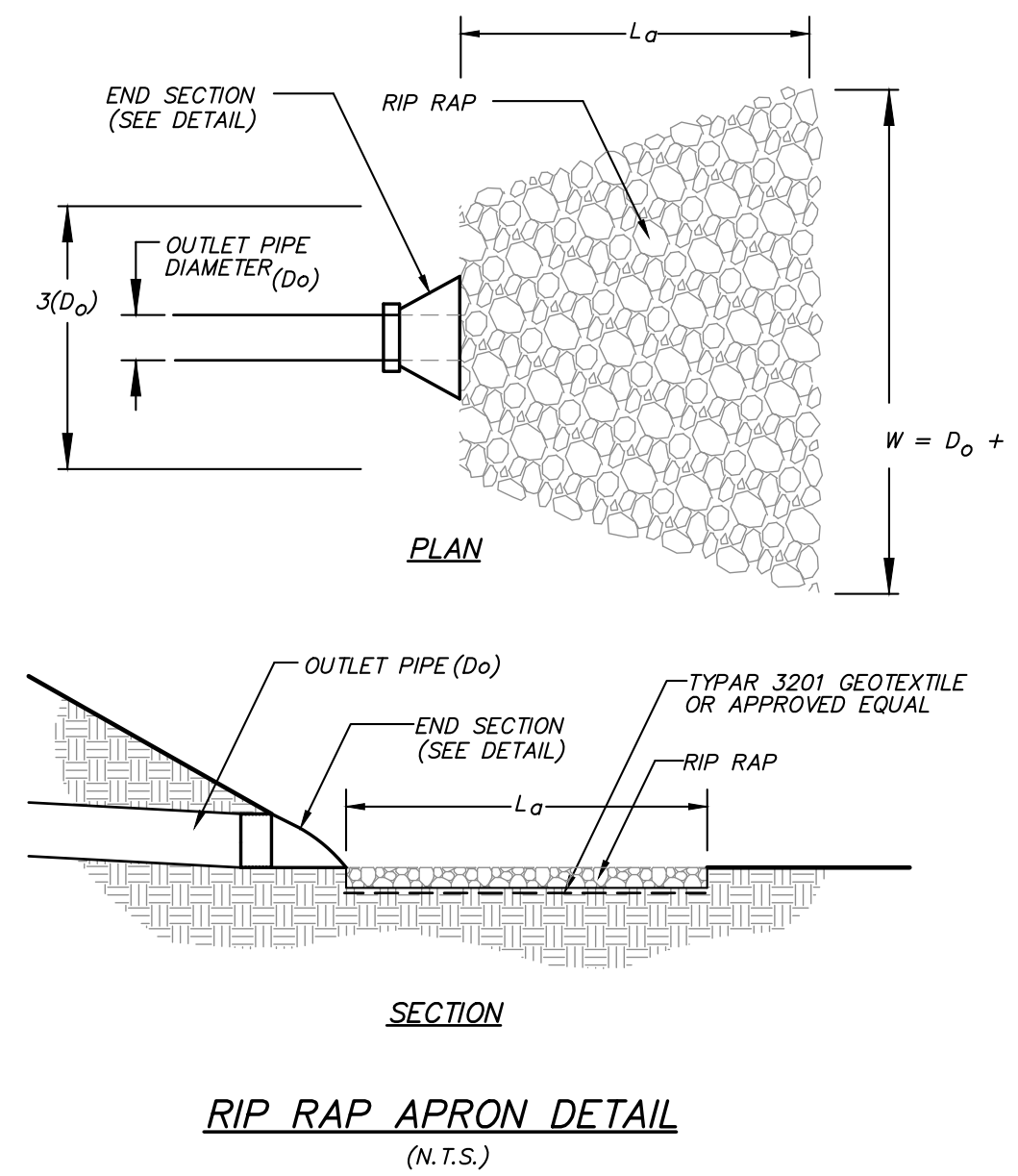
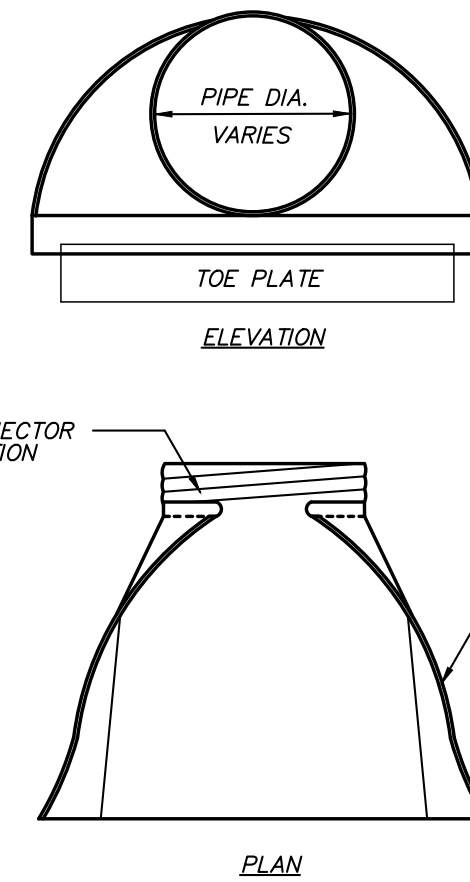
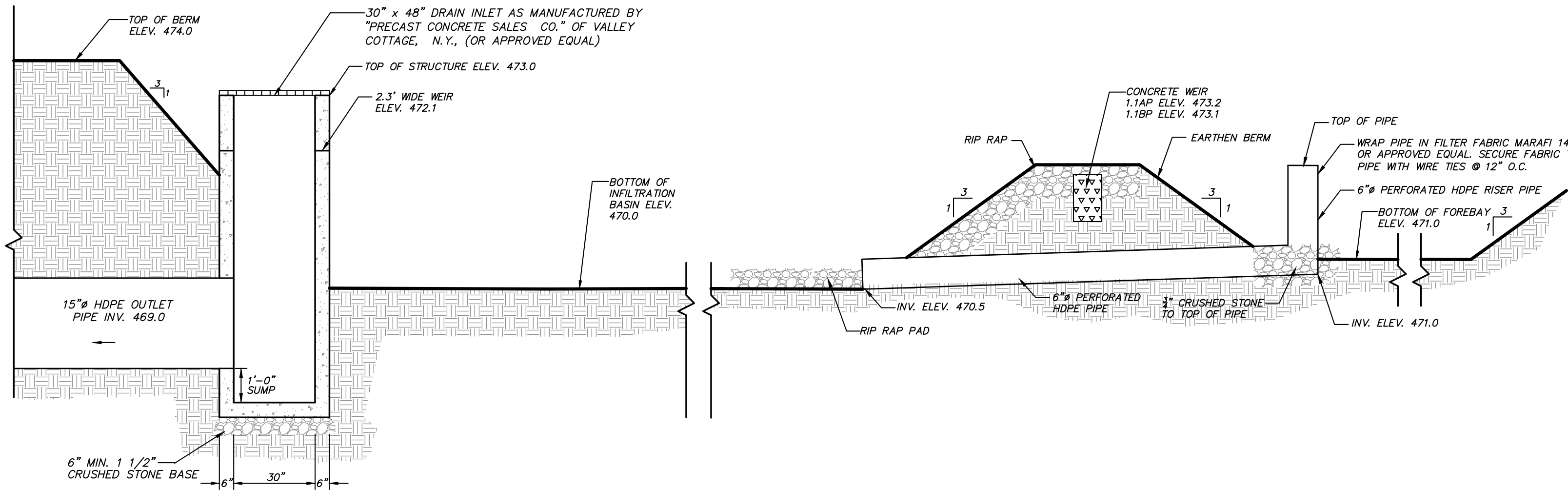
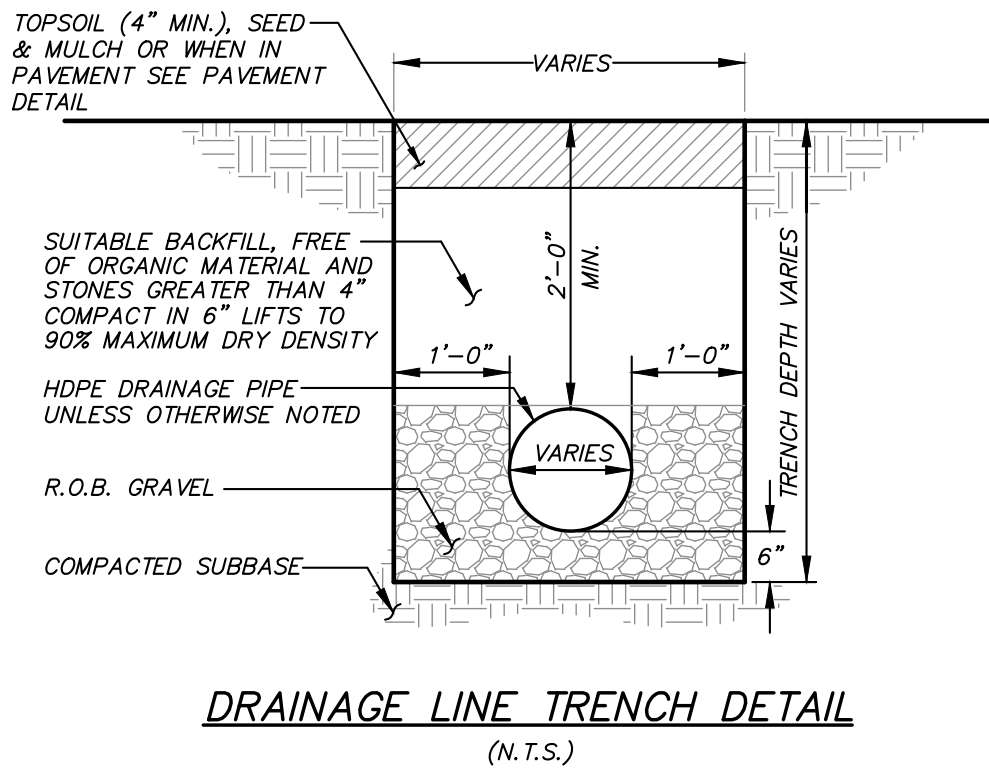
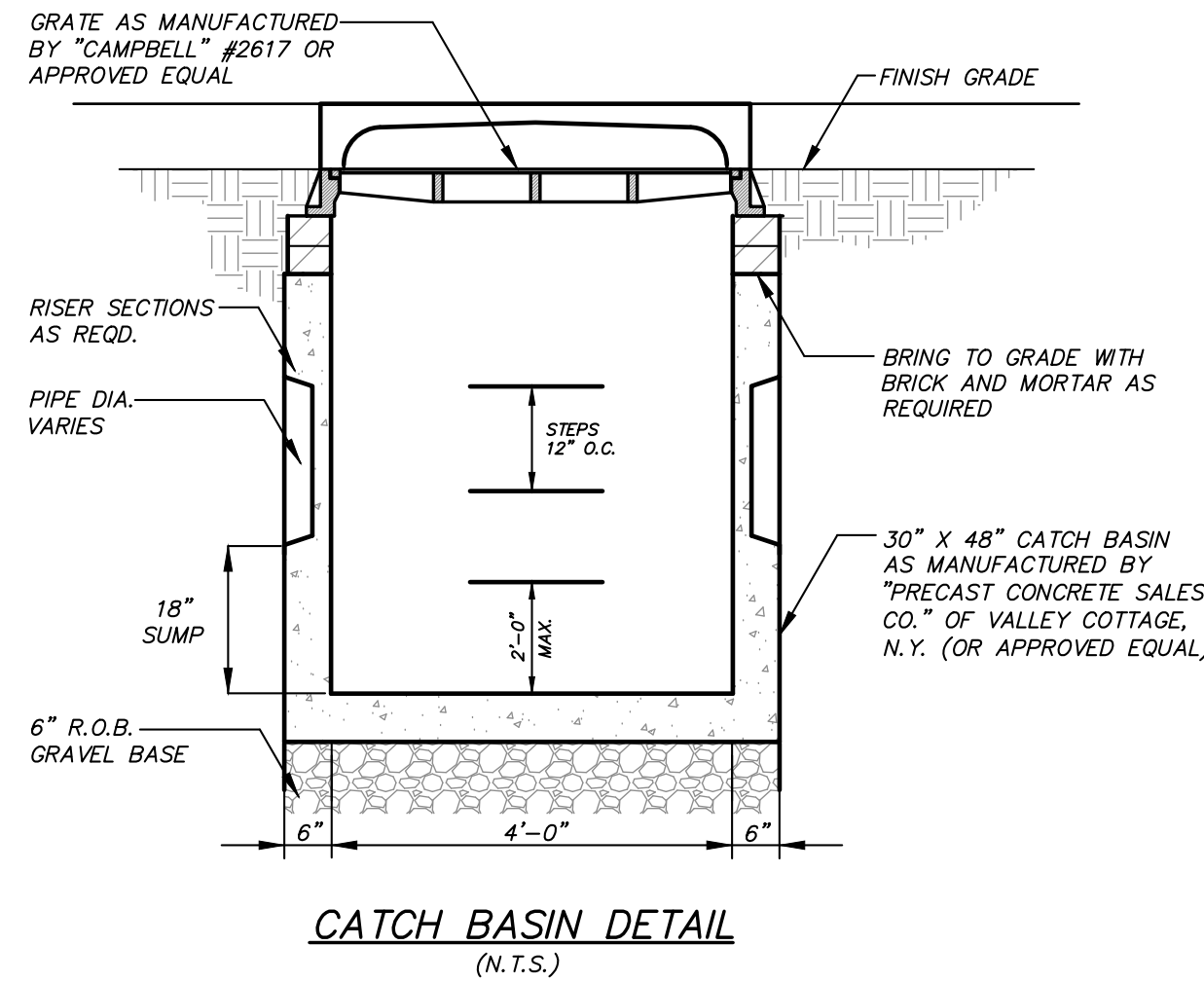
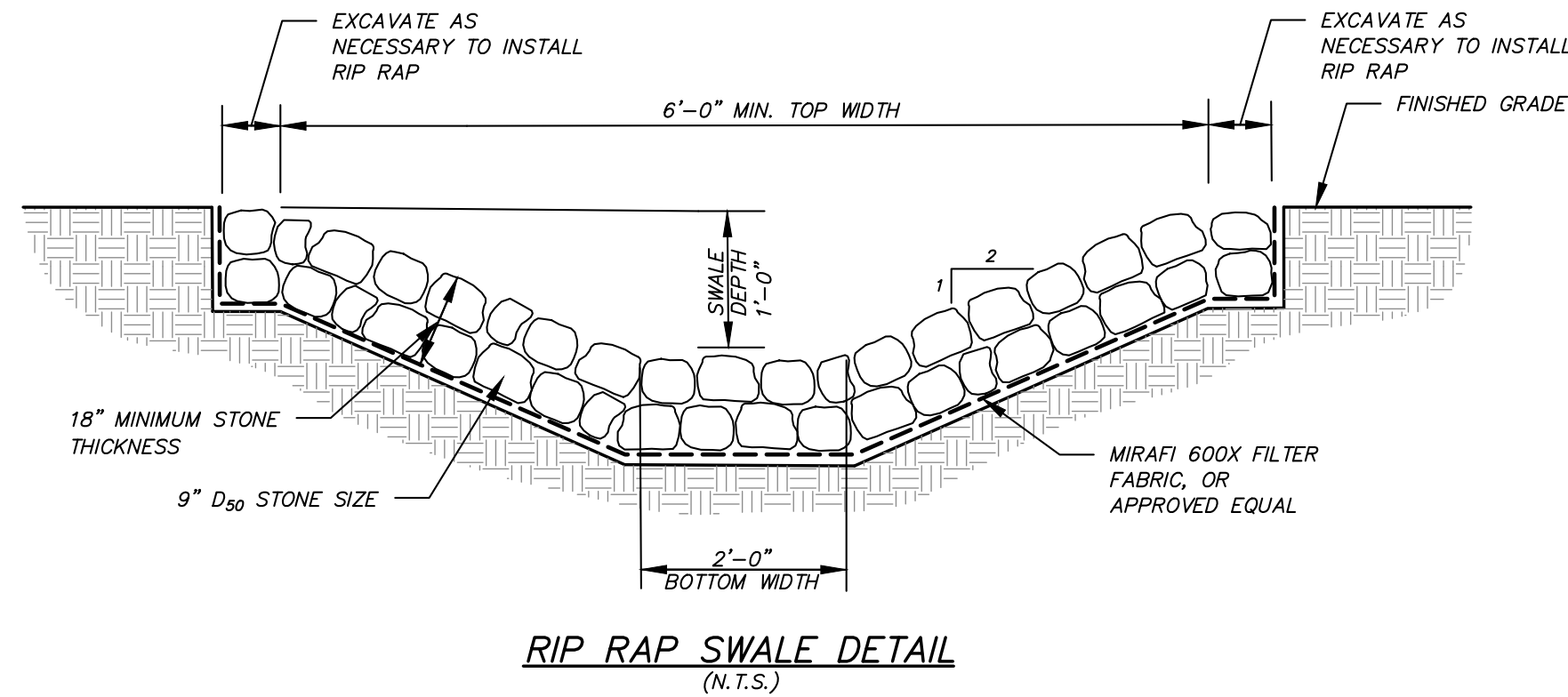
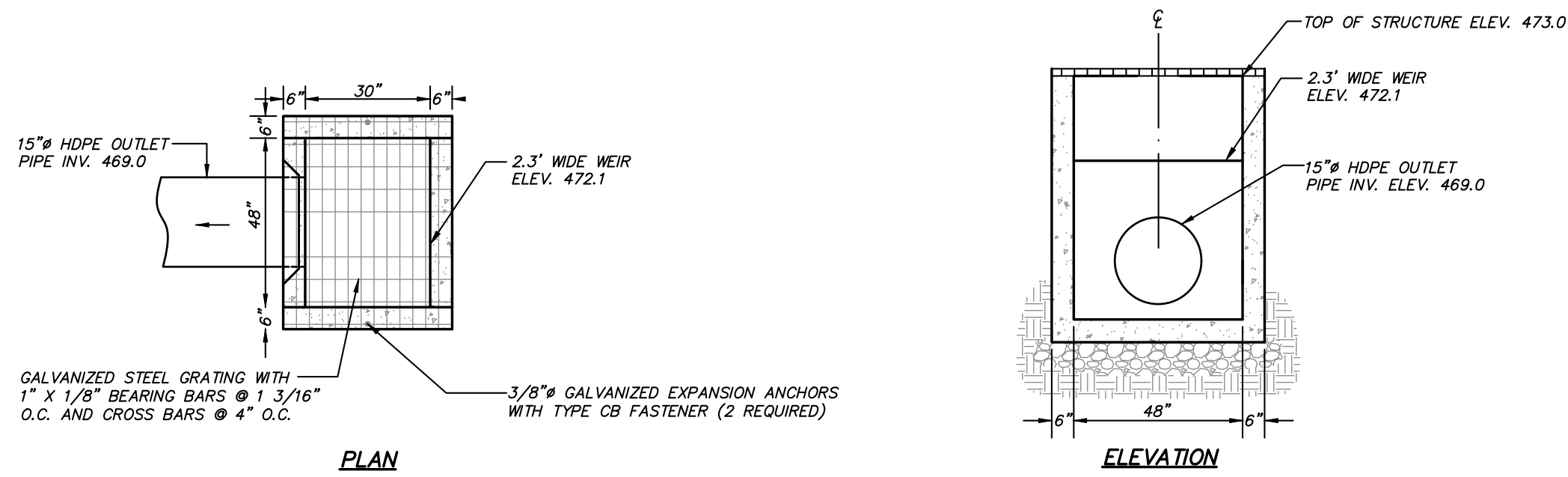
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DATE	9-13-19	DRAWN BY	E.J.K.	SP-3.1	5
SCALE	1" = 40'	CHECKED BY	E.M.S.		

10



8	2-18-20	REVISED PER TOWN COMMENTS	GM
7	1-21-20	REVISED PER TOWN COMMENTS	GM
6	1-8-20	REVISED FOR ZBA SUBMISSION	GM
5	11-6-19	REVISED FOR ZBA SUBMISSION	GM
4	9-13-19	REVISED PER TOWN COMMENTS	MEU
3	07-29-19	REVISED FOR PLANNING BOARD SUBMISSION	KAM
2	02-24-17	REVISED FOR COORDINATED REVIEW	SJC
1	11-30-16	REVISED FOR TEAM REVIEW	MUC
NO.	DATE	REVISION	BY

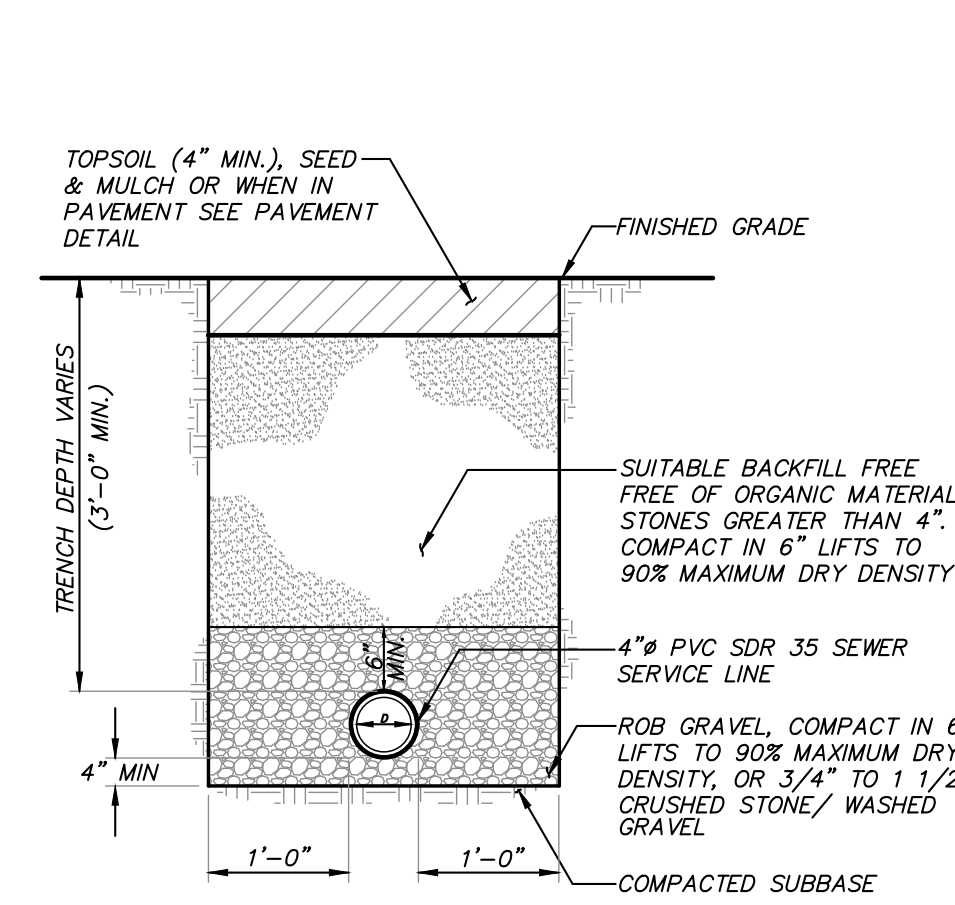
 INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.		3 Garrett Place Carmel, NY 12512 (845) 225-9690 (845) 225-9717 fax www.insite-eng.com	
PROJECT: PUTNAM VALLEY FIRE STATION #1 AND AMENDED SITE PLAN FOR PUTNAM VALLEY AMBULANCE CORPS OSCAWANA LAKE ROAD, TOWN OF PUTNAM VALLEY, COUNTY OF PUTNAM, NEW YORK			
DRAWING: <div style="text-align: center;"><u>SITE DETAILS</u></div>			
PROJECT NUMBER	09105.100	PROJECT MANAGER	J.J.C.
DATE	7-29-19	DRAWN BY	D.L.M.
SCALE	AS SHOWN	CHECKED BY	E.N.S.
		DRAWING NO.	SHEET <div style="text-align: center;"> <div style="font-size: 2em;">D-1</div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div>6</div> <div style="border-top: 1px solid black; width: 50px; text-align: center;">10</div> </div> </div>



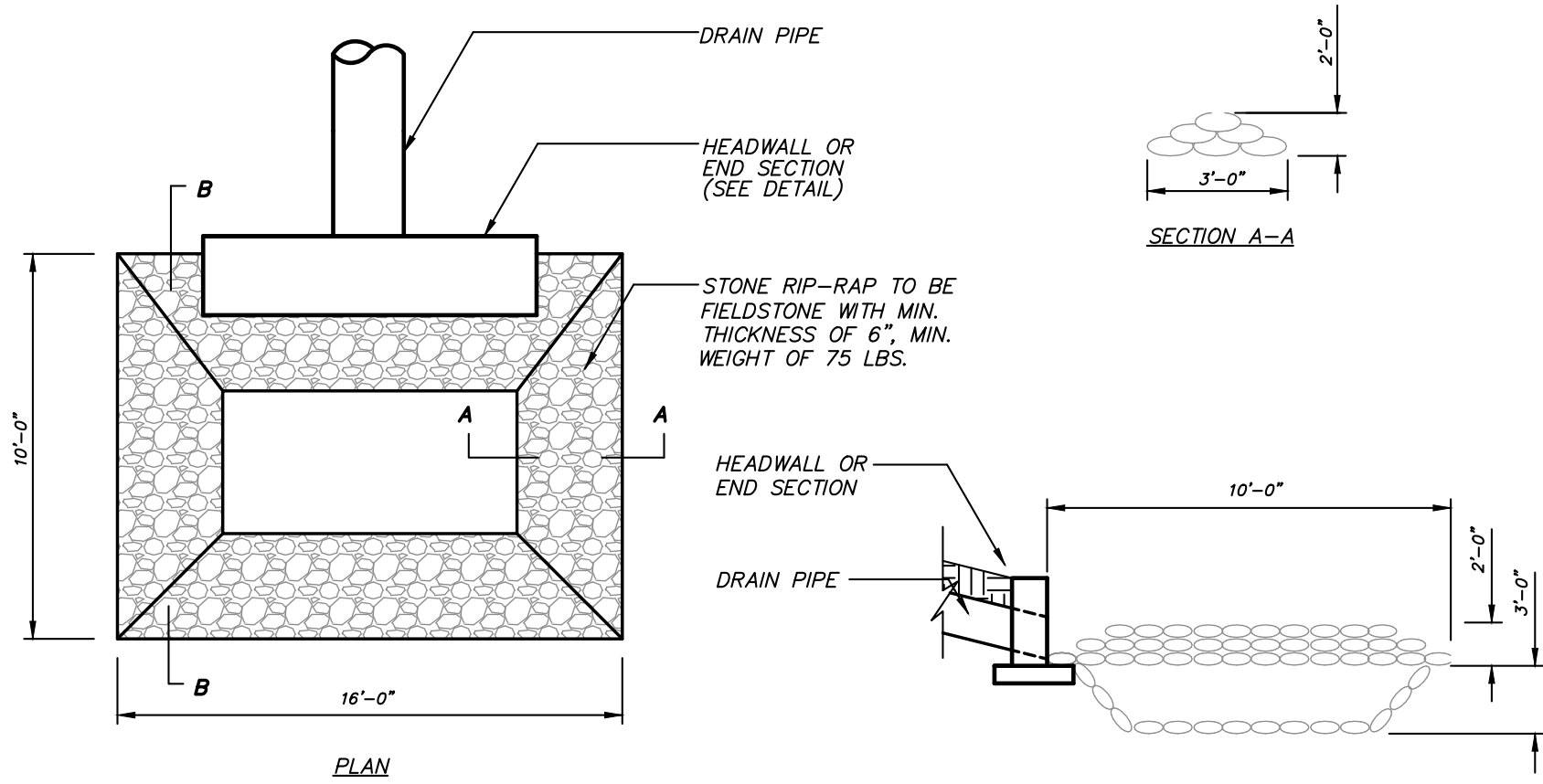
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7	1-21-20	REVISED PER TOWN COMMENTS	GM
6	1-8-20	REVISED FOR ZBA SUBMISSION	GM
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NO.	DATE	REVISION	BY

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DRAWING: SITE DETAILS			
PROJECT NUMBER	09105.100	PROJECT MANAGER	J.J.C.
DATE	7-29-19	DRAWN BY	D.L.M.
SCALE	AS SHOWN	CHECKED BY	E.N.S.
DRAWING NO.	D-2		
SHEET	7		
	10		

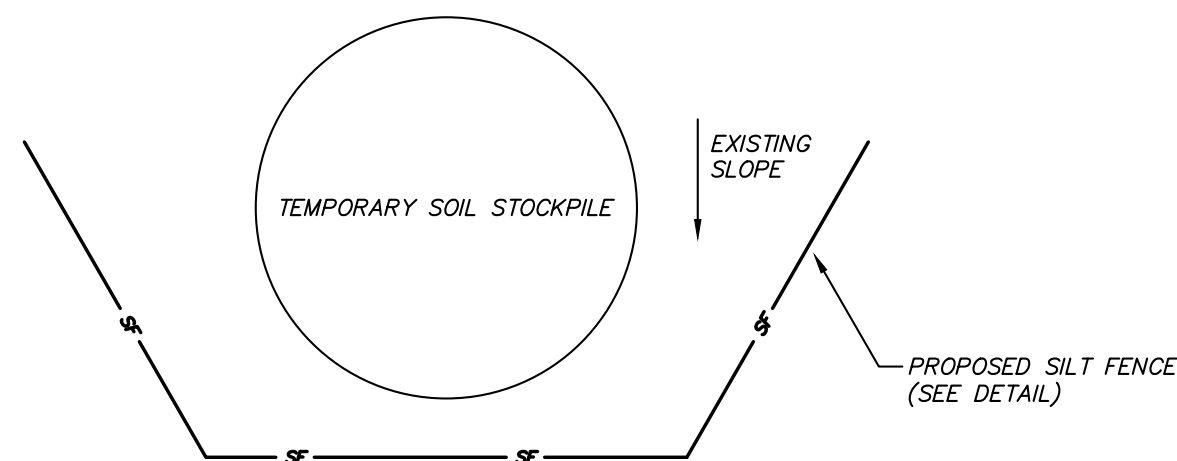


SEWER SERVICE LINE TRENCH DETAIL
(N.T.S.)



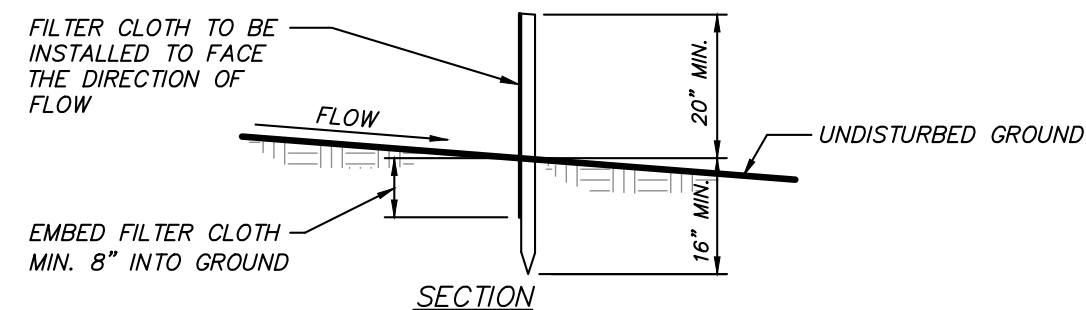
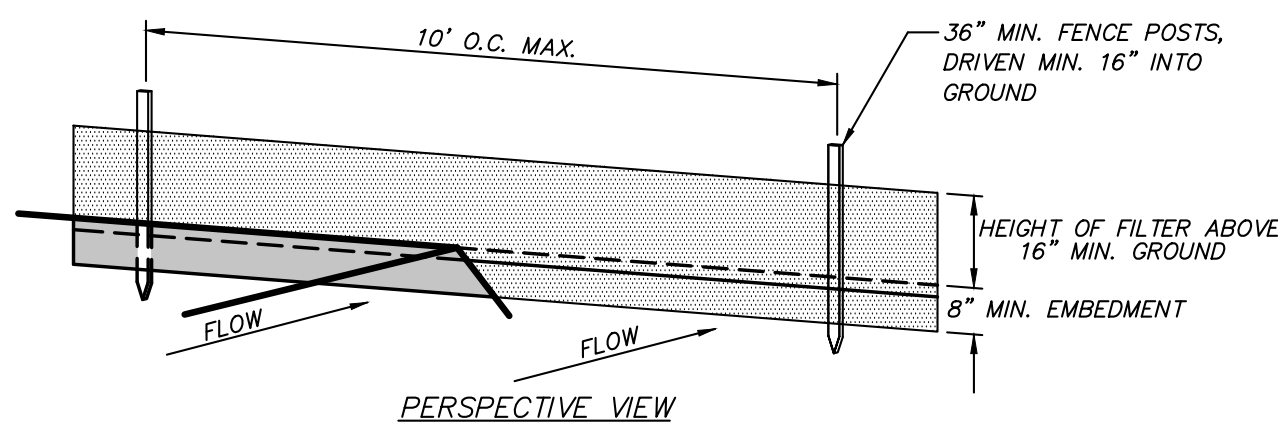
- NOTES:
- DISSIPATOR SHALL BE DUG AS TEMPORARY SILT TRAP DURING CONSTRUCTION. RIP-RAP AFTER PAVEMENT AND GRADING ARE COMPLETED.
 - DISSIPATOR SHALL BE LINED BENEATH RIP-RAP WITH TYPAR 3401 GEOTEXTILE OR APPROVED EQUAL.

VELOCITY DISSIPATOR DETAIL
(N.T.S.)



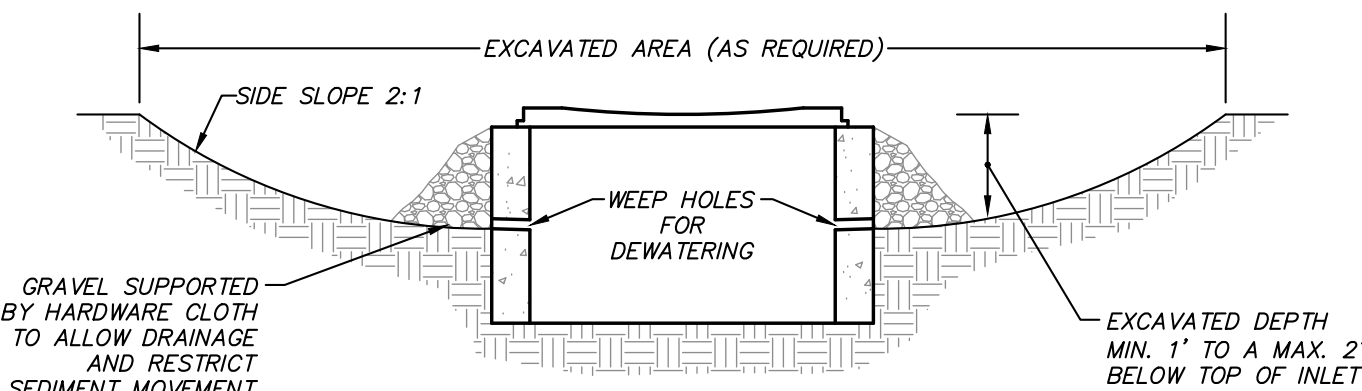
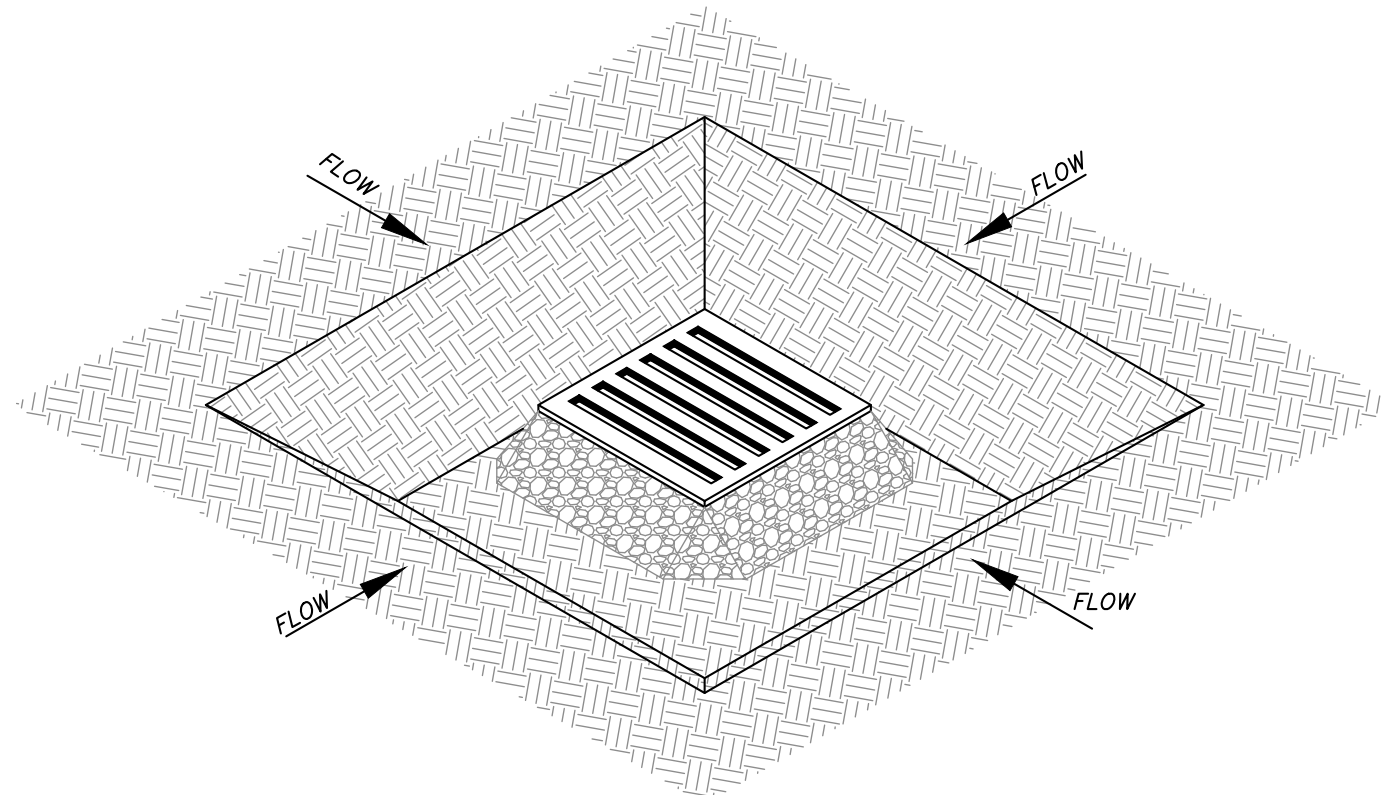
- NOTES:
- AREA CHOSEN FOR STOCKPILE LOCATION SHALL BE DRY AND STABLE.
 - MAXIMUM SLOPE OF STOCKPILE SHALL BE 2:1.
 - UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE IMMEDIATELY SEEDED WITH K31 PERENNIAL TALL FESCUE.
 - ALL STOCKPILES SHALL BE PROTECTED WITH SILT FENCING INSTALLED ON THE DOWNGRADIENT SIDE.

TEMPORARY SOIL STOCKPILE DETAIL
(N.T.S.)



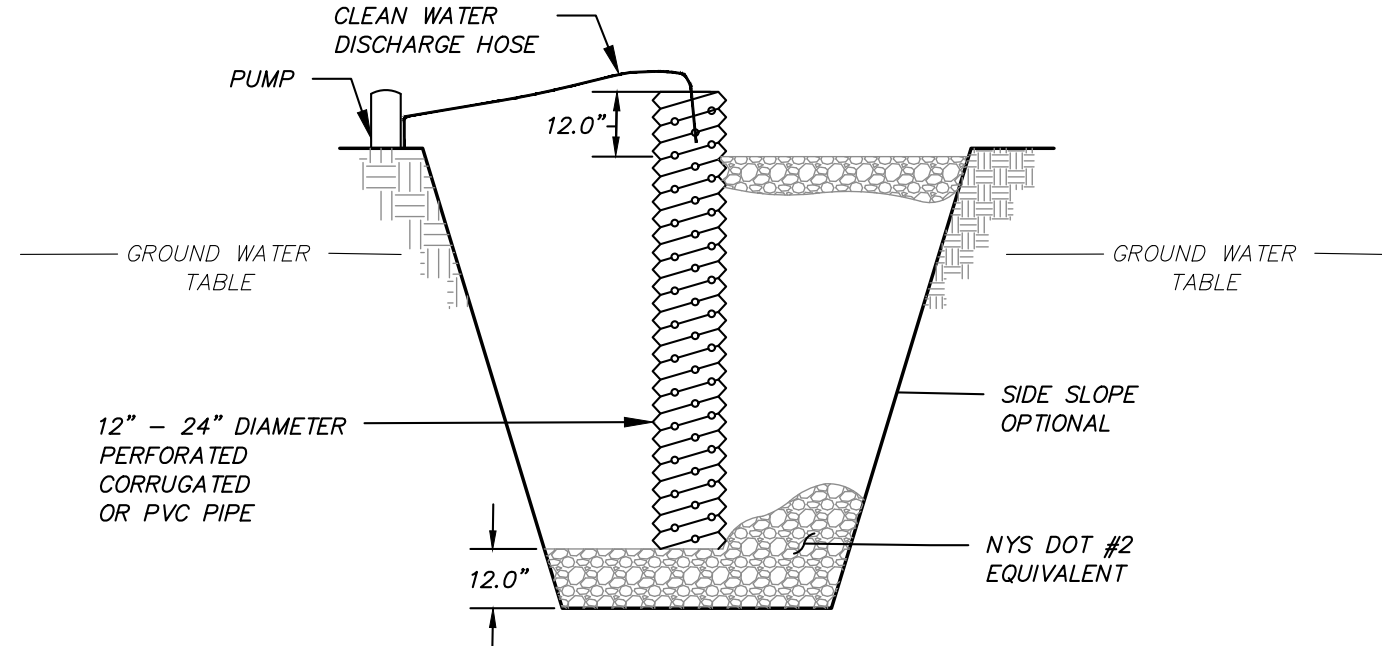
- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE
- FILTER CLOTH TO BE FASTENED SECURELY TO POSTS AT TOP AND MID SECTION.
 - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
 - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
- POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD
- FILTER CLOTH: FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUAL
- PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL

SILT FENCE DETAIL
(N.T.S.)



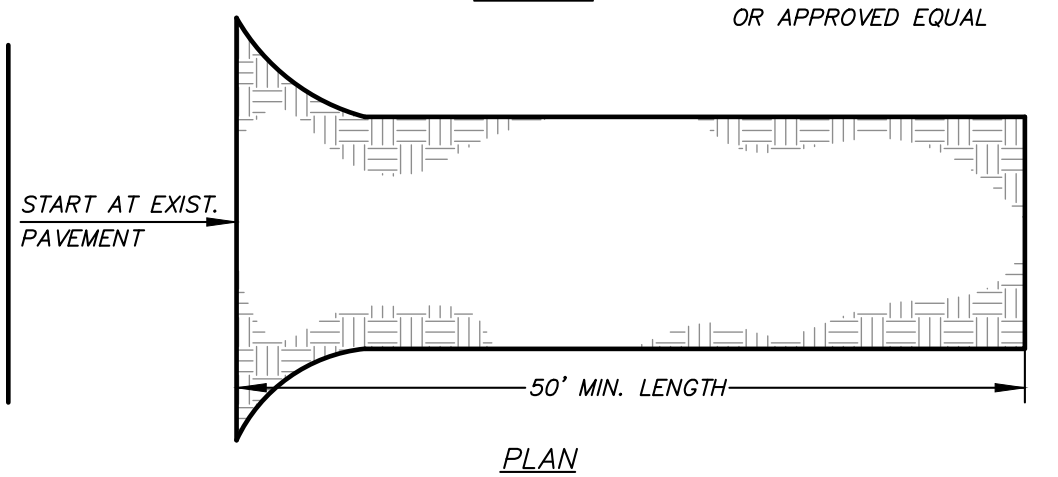
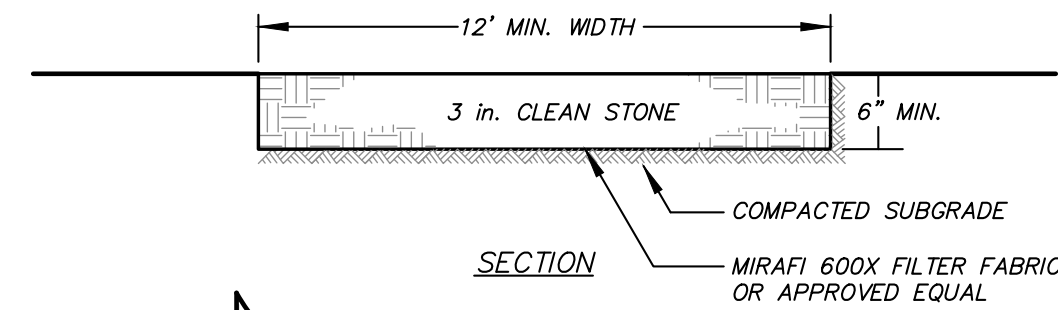
- CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION
- GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN
- WEEP HOLES SHALL BE PROTECTED BY GRAVEL
- UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEEP HOLES, FILL EXCAVATION WITH STABLE SOIL TO FINAL GRADE, COMPACT IT PROPERLY, AND STABILIZE WITH PERMANENT SEEDING
- MAXIMUM DRAINAGE AREA = 1 ACRE

EXCAVATED DROP INLET PROTECTION DETAIL
(N.T.S.)



- NOTES:
- PIT DIMENSIONS ARE OPTIONAL.
 - THE STANDPIPE SHOULD BE CONSTRUCTED BY PERFORATING A 12-24" DIAMETER CORRUGATED METAL OR PVC PIPE.
 - A BASE OF 2" AGGREGATE SHOULD BE PLACED IN THE PIT TO A DEPTH OF 12" AFTER INSTALLING THE STANDPIPE. THE PIT SURROUNDING THE STANDPIPE SHOULD BE BACKFILLED WITH 2" AGGREGATE.
 - THE STANDPIPE SHOULD EXTEND 12-18" ABOVE THE LIP OF THE PIT.
 - IF DISCHARGE WILL BE PUMPED DIRECTLY TO A STORM DRAINAGE SYSTEM, THE STANDPIPE SHOULD BE WRAPPED WITH FILTERCLOTH BEFORE INSTALLATION. IF DESIRED, 1/4"-1/2" HARDWARE CLOTH MAY BE PLACED AROUND THE STANDPIPE PRIOR TO ATTACHING THE FILTERCLOTH.

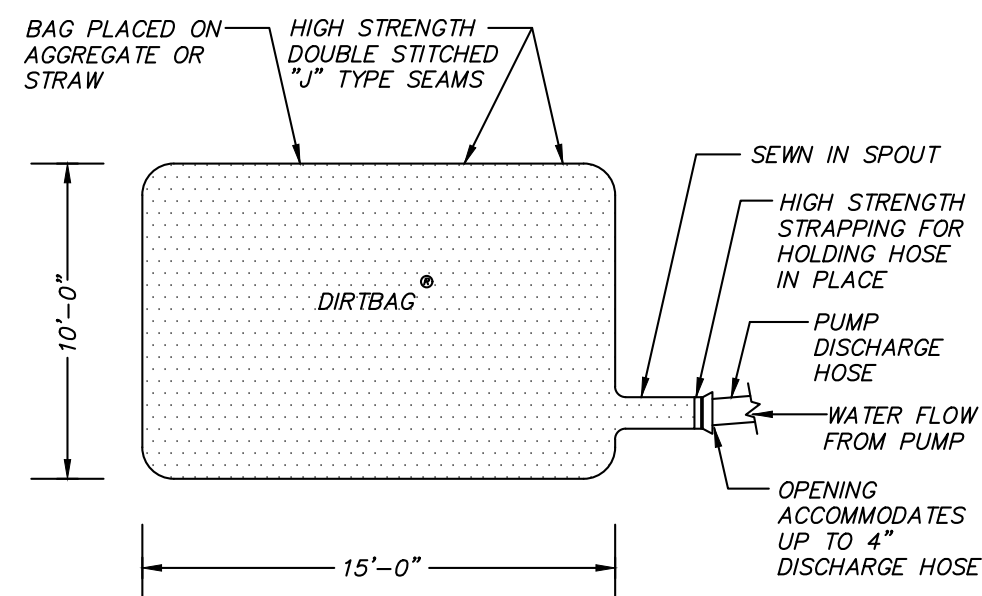
SUMP PIT DETAIL



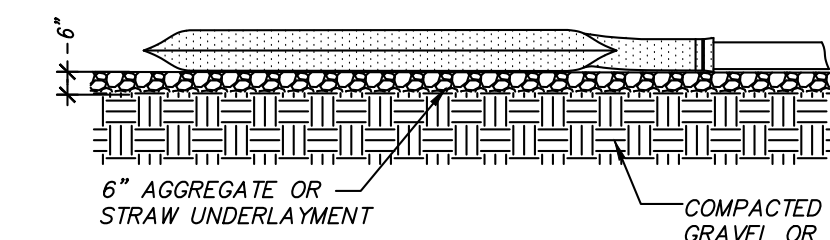
INSTALLATION NOTES

- STONE SIZE - USE 3" STONE
- LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.)
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - 12 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCUR.
- FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER CLOTH WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE, IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT 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 RIGHT OF WAY MUST BE REMOVED IMMEDIATELY.
- WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT OF WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION
ENTRANCE DETAIL
(N.T.S.)



TOP VIEW



SIDE VIEW

- NOTES:
- PUMPED SILT CONTROL SYSTEM TO BE LOCATED WHERE WATER, AFTER PASSING THROUGH SYSTEM, WILL NOT CAUSE EROSION.
 - PUMPED SILT CONTROL SYSTEM TO BE MONITORED AND MAINTAINED TO ASSURE ADEQUATE FILTRATION.
 - PUMPED SILT CONTROL SYSTEM TO BE MANUFACTURED BY ACF ENVIRONMENTAL (1-800-448-3636) OR APPROVED EQUAL.

"DIRTBAG" PUMPED SILT CONTROL SYSTEM DETAIL
(N.T.S.)

6	2-18-20	REVISED PER TOWN COMMENTS	GM
5	1-21-20	REVISED PER TOWN COMMENTS	GM
4	9-13-19	REVISED PER TOWN COMMENTS	MEU
3	07-29-19	REVISED FOR PLANNING BOARD SUBMISSION	KAM
2	02-24-17	REVISED FOR COORDINATED REVIEW	SJC
1	11-30-16	REVISED FOR TEAM REVIEW	MEU
NO.	DATE	REVISION	BY

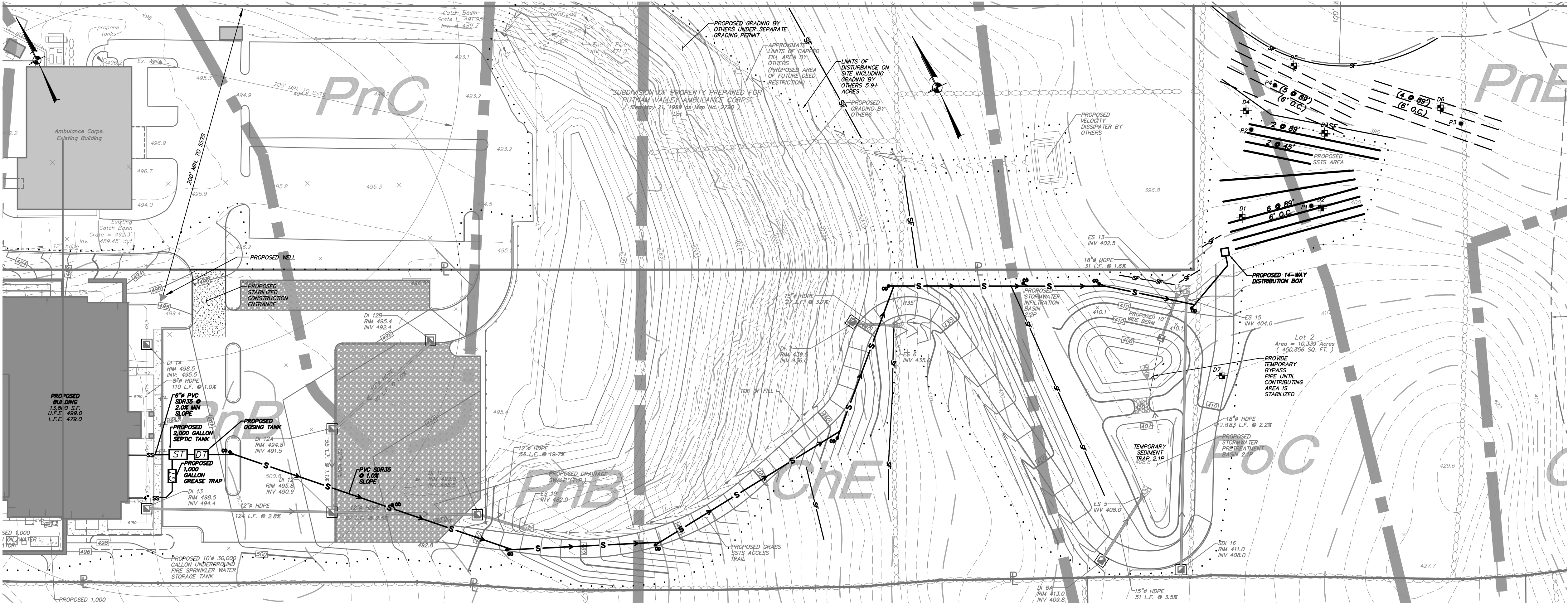
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Carmel, NY 10512
(845) 225-9690
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PROJECT:
**PUTNAM VALLEY FIRE STATION #1
AND AMENDED SITE PLAN FOR
PUTNAM VALLEY AMBULANCE CORPS**
OSCANNA LAKE ROAD, TOWN OF PUTNAM VALLEY, COUNTY OF PUTNAM, NEW YORK

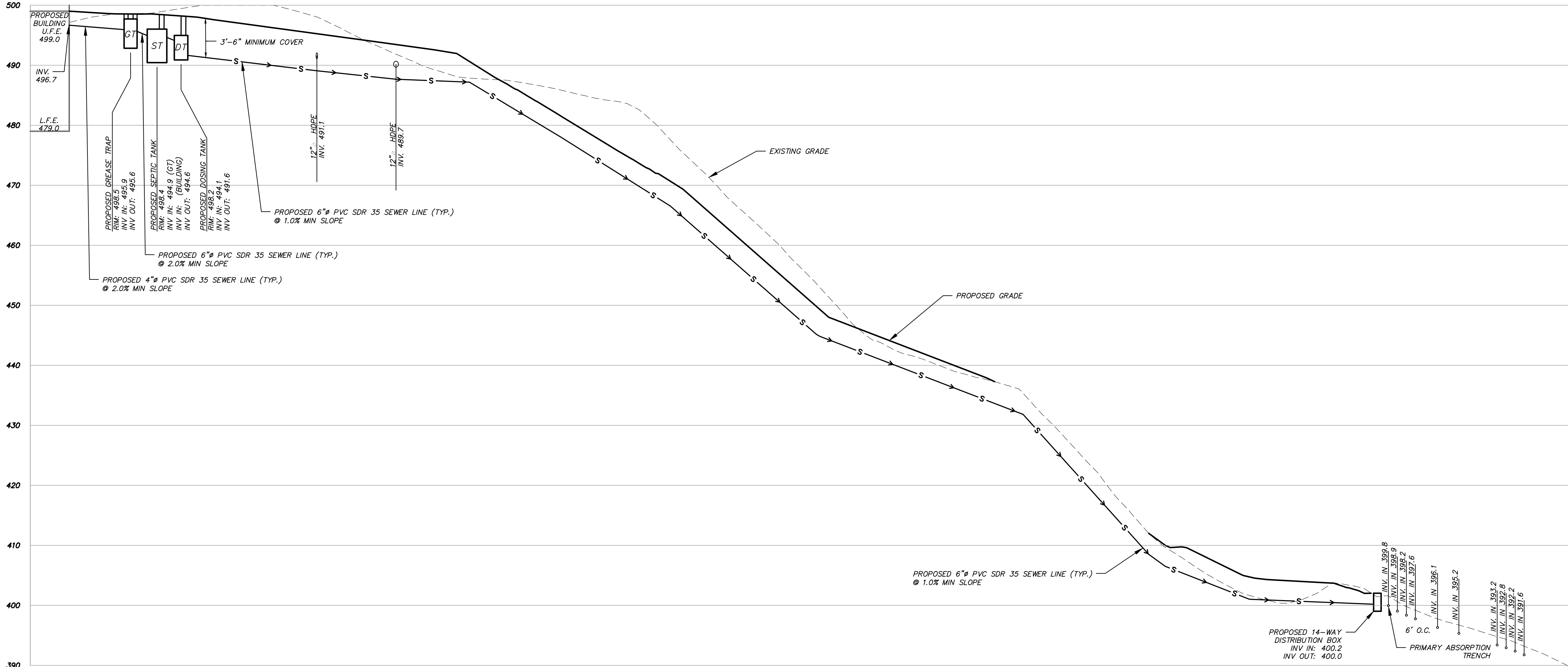
DRAWING: SITE DETAILS			
PROJECT NUMBER	09105.100	PROJECT MANAGER	J.J.C.
DATE	7-19-19	DRAWN BY	D.L.M.
SCALE	AS SHOWN	CHECKED BY	E.N.S.
DRAWING NO.	D-3		
SHEET	8		
10			

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SSSTS & WELL PLAN

SCALE: 1" = 40'



SEPTIC ALIGNMENT

SCALE: HORIZ. 1" = 40'
VER. 1" = 10'

LEGEND

	Existing Property Line
	Existing Wetland Limit Line w/ Flag
	Existing Watercourse
	Wetland Control Line
	Existing Stonewall
	Existing Guide Rail
	Existing 10' Contour
	Existing 2' Contour
	Existing Spot Grade
	Existing Catch Basin
	Existing Pipe (size shown)
	Existing Utility Pole
	Existing Tree
	Existing Tree to be Removed
	Proposed 10' Contour
	Proposed 2' Contour
	Proposed Retaining Wall
	Proposed Wood Guide Rail
	Proposed Inlet Protection
	Proposed Drainage Pipe
	Proposed End Section
	Proposed Roof Drain
	Proposed Silt Fence
	Proposed Limits of Disturbance
	Deep Test Hole
	Percolation Test
	Proposed Dosing Tank
	Proposed 2,000 Gallon Septic Tank
	Proposed 1,000 Gallon Grease Trap
	Proposed Primary Absorption Trench
	Proposed Expansion Absorption Trench

SOILS LEGEND		
SOILS	DESCRIPTION	HYDROLOGICAL GROUP
CrC	Charlton-Chatfield complex, rolling, very rocky	B
ChE	Charlton Loom, 25% to 35% Slopes	B
PnB	Paxton fine sandy loam, 2% to 8% slopes	C
PnC	Paxton fine sandy loam, 8% to 15% slopes	C
PnD	Paxton fine sandy loam, 15% to 25% slopes	C
PoC	Paxton fine sandy loam, 8% to 15% slopes, Very Stony	C
LeB	Leicester Loom, 3% to 8%, Very Stony	C

Note: Soils information shown is based on interpretation of the USDA SCS Soils Survey.

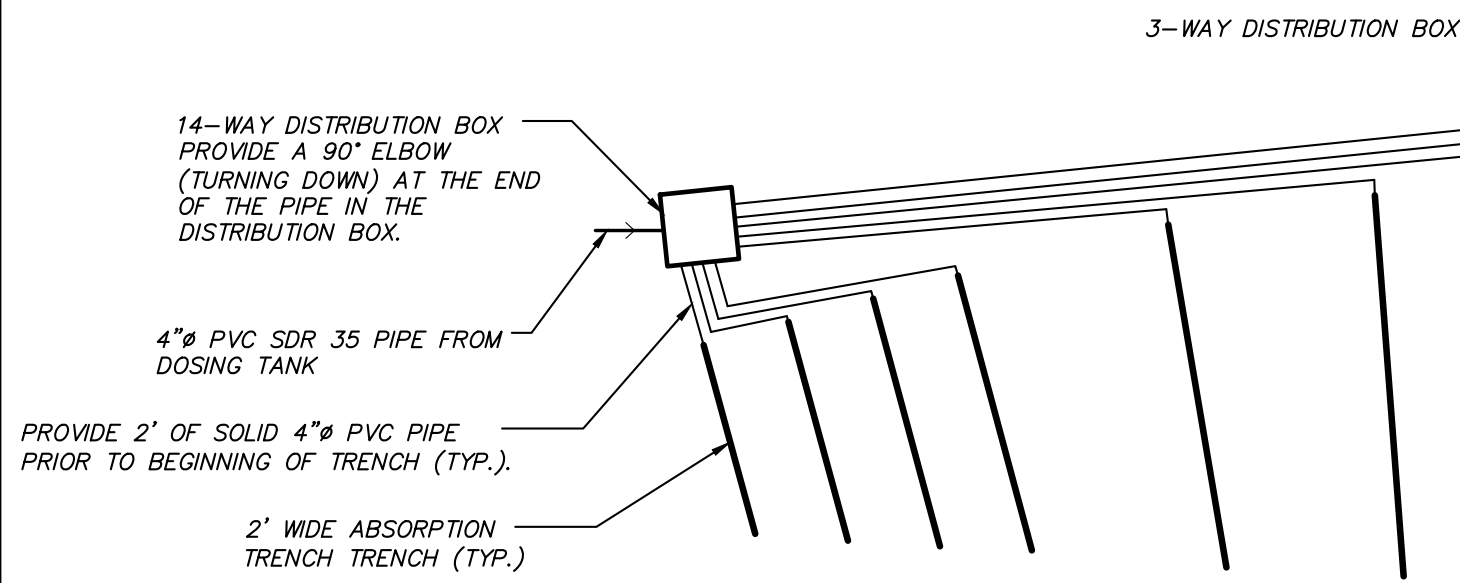
GRAPHIC SCALE



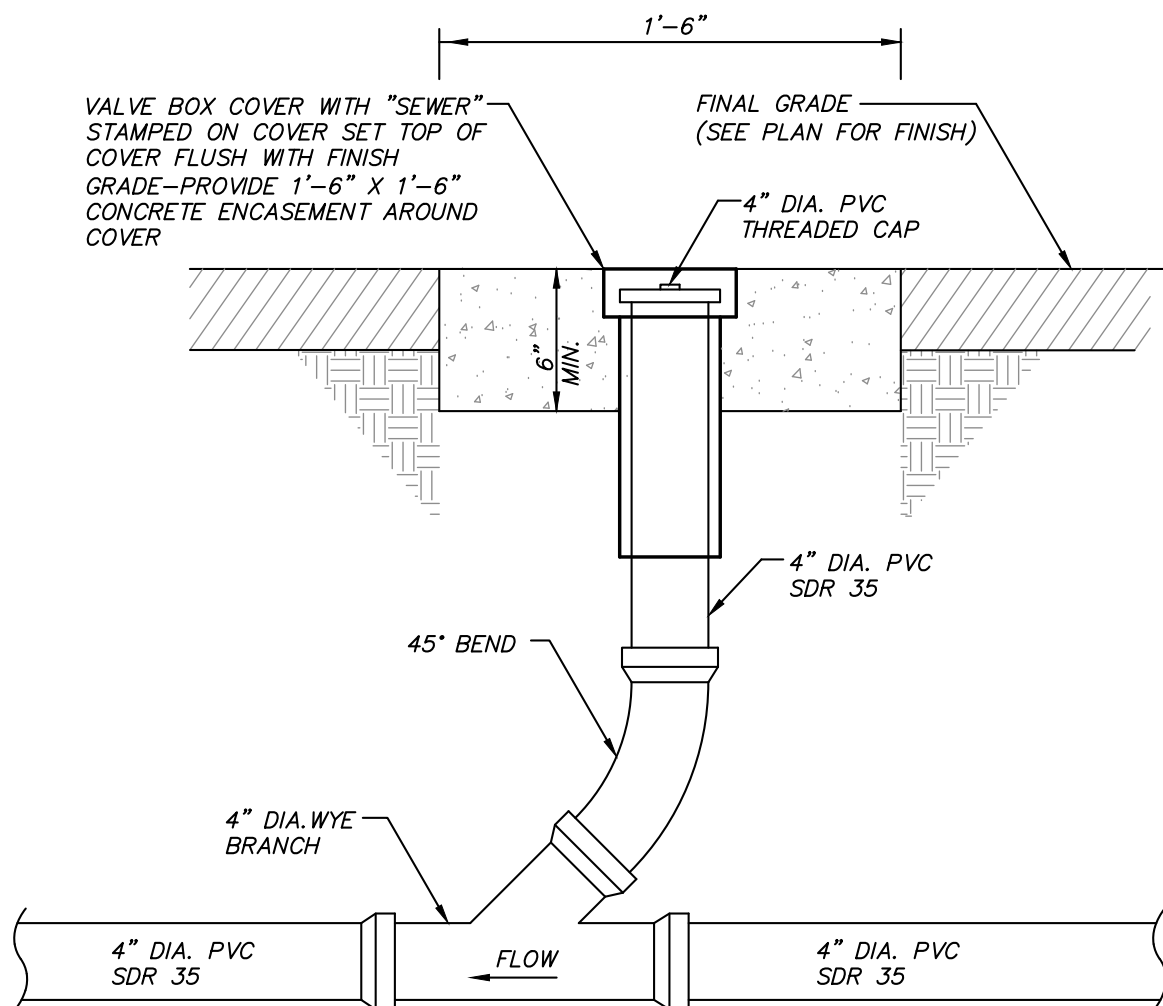
(IN FEET)
1 inch = 40 ft.

4	2-18-20	REVISED PER TOWN COMMENTS	GM
3	1-21-20	REVISED PER TOWN COMMENTS	GM
2	9-13-19	REVISED PER TOWN COMMENTS	MEU
1	07-29-19	REVISED FOR PLANNING BOARD SUBMISSION	KAM
NO.	DATE	REVISION	BY

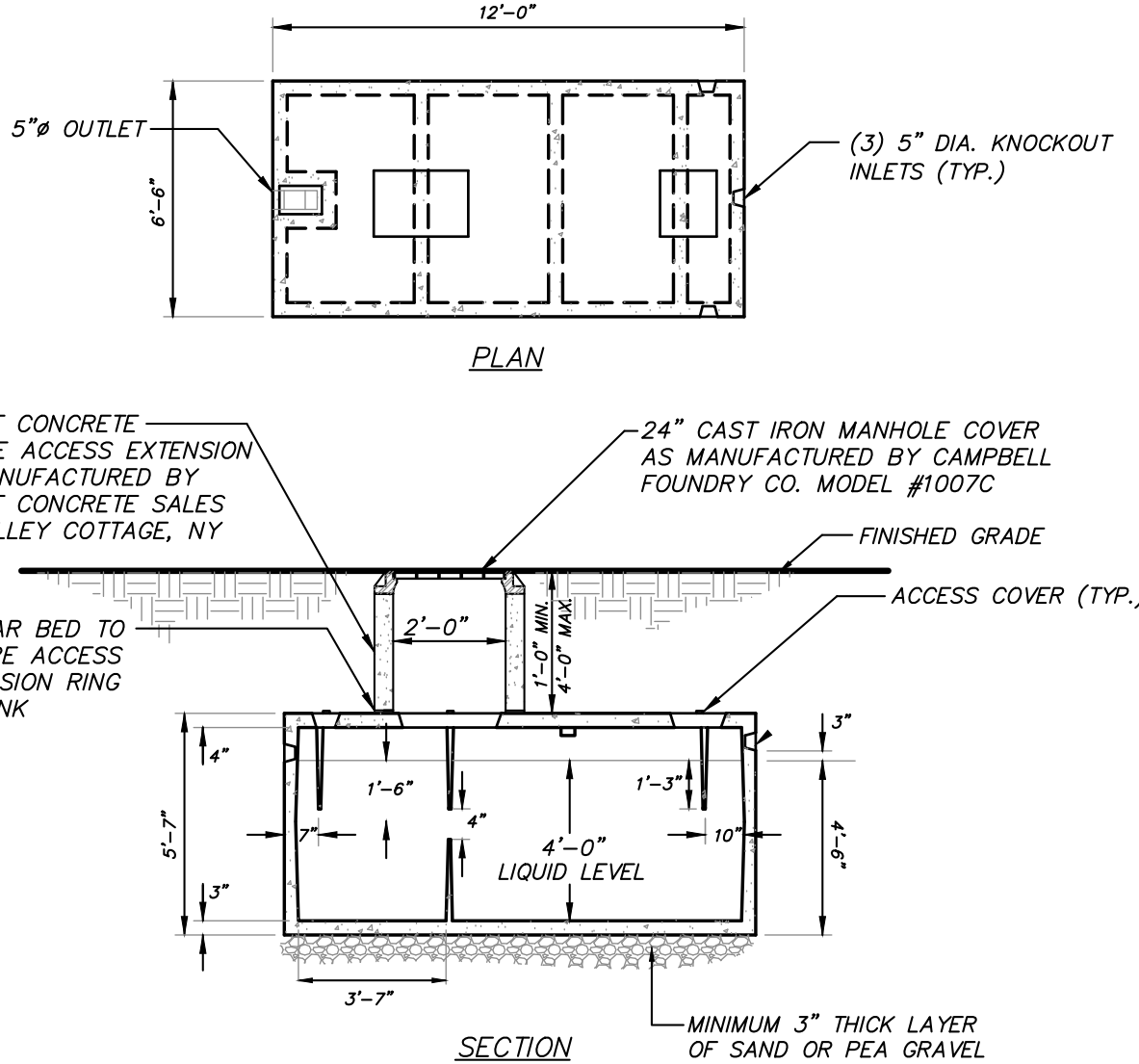
		3 Garrett Place Carmel, NY 10512 (845) 225-9690 (845) 225-9717 fax www.insite-eng.com	
PROJECT: PUTNAM VALLEY FIRE STATION #1 AND AMENDED SITE PLAN FOR PUTNAM VALLEY AMBULANCE CORPS			
DRAWING: SSSTS & WELL PLAN			
PROJECT NUMBER	09105.100	PROJECT MANAGER	J.J.C.
DATE	7-29-19	DRAWN BY	M.E.U.
SCALE	AS SHOWN	CHECKED BY	E.M.S.
DRAWING NO.	SHEET		9
HD-1		10	



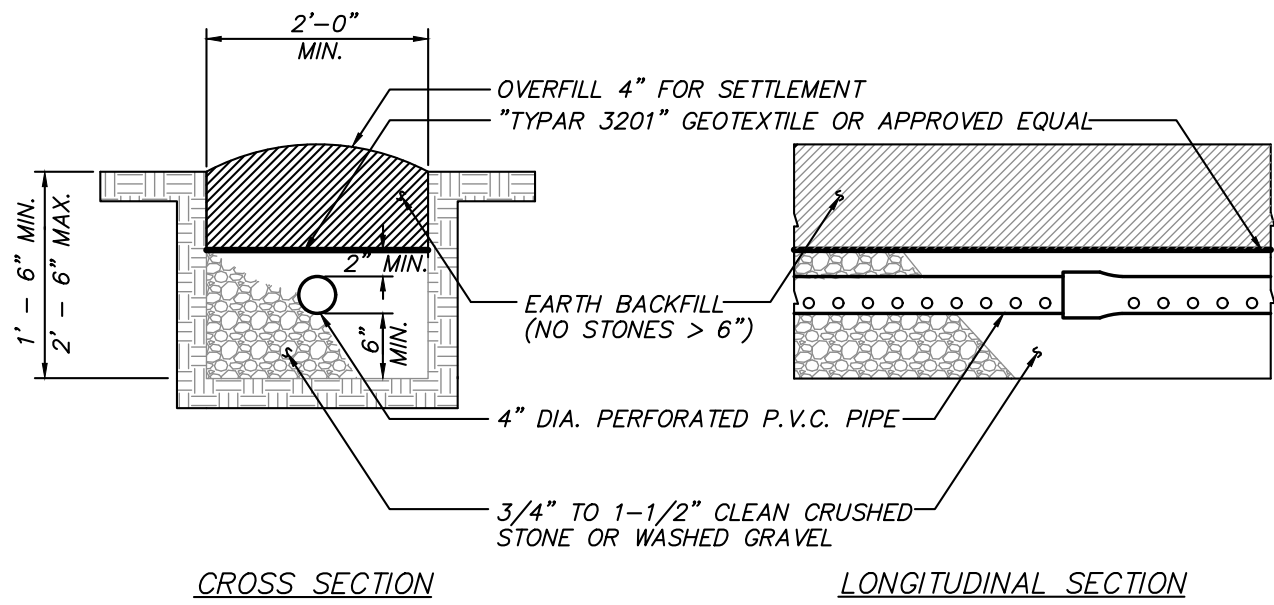
SSTS DISTRIBUTION SCHEMATIC
(N.T.S.)



SEWER LINE CLEANOUT DETAIL
(N.T.S.)



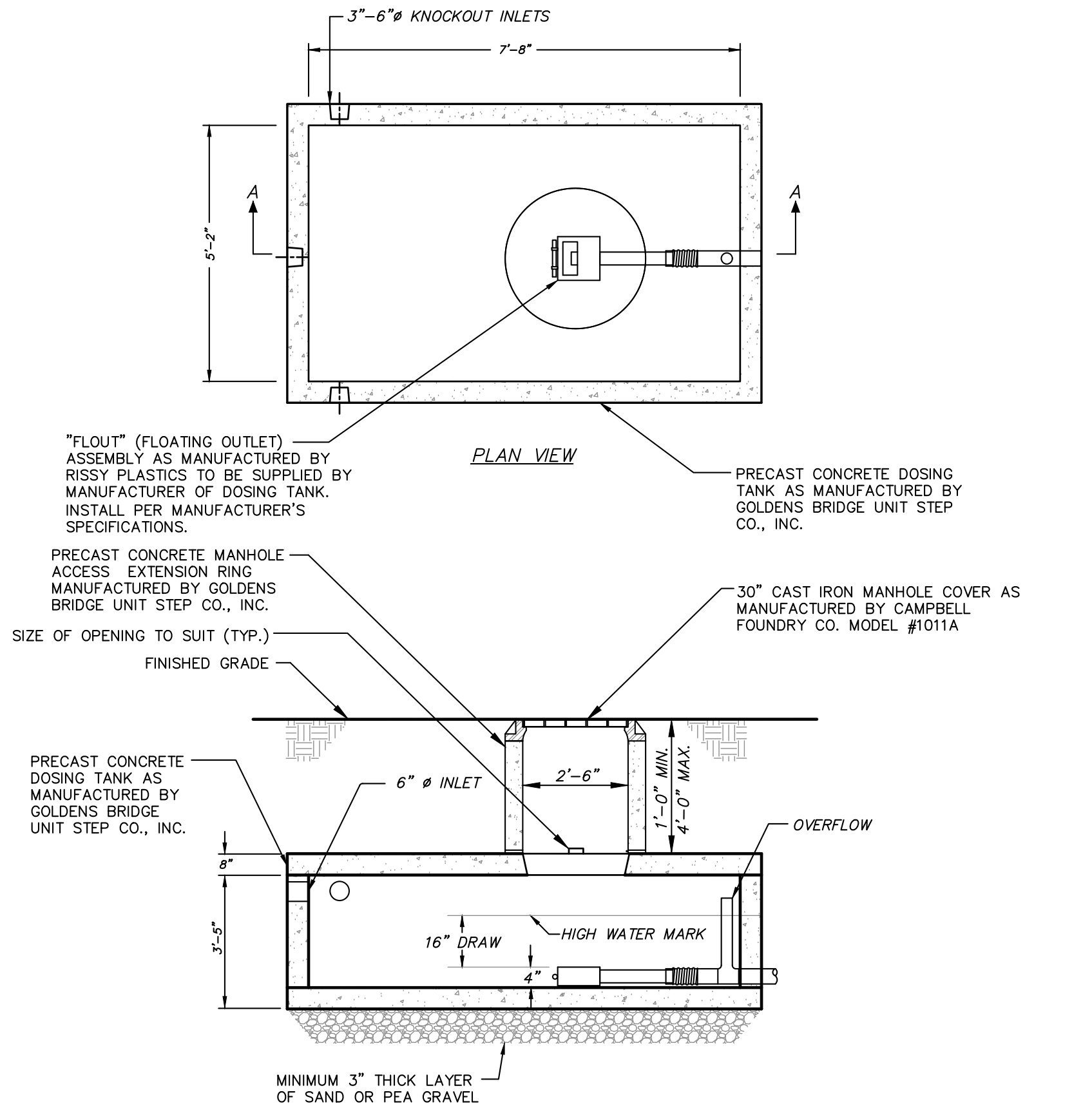
2000 GALLON SEPTIC TANK DETAIL
(TO BE DESIGNED FOR H-20 LOADING WHEN IN PAVEMENT)
(N.T.S.)



ABSORPTION TRENCH DETAIL
(N.T.S.)

ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE EDUCATION LAW.

WATER SERVICE LINE TRENCH DETAIL
(N.T.S.)



14 WAY DISTRIBUTION BOX DETAIL
(N.T.S.)

SSTS DESIGN DATA:

P1:	6	MIN/INCH	(4/07/17)
P2:	12	MIN/INCH	(4/07/17)
P3:	15	MIN/INCH	(4/07/17)
P4:	11	MIN/INCH	(4/19/17)

DEEP TEST RESULTS: 6/16/09

DEEP TESTS OBSERVED BY:
ERIC KINGSBURY (INSITE ENGINEERING)
GENE REED (PUTNAM COUNTY DEPARTMENT OF HEALTH)

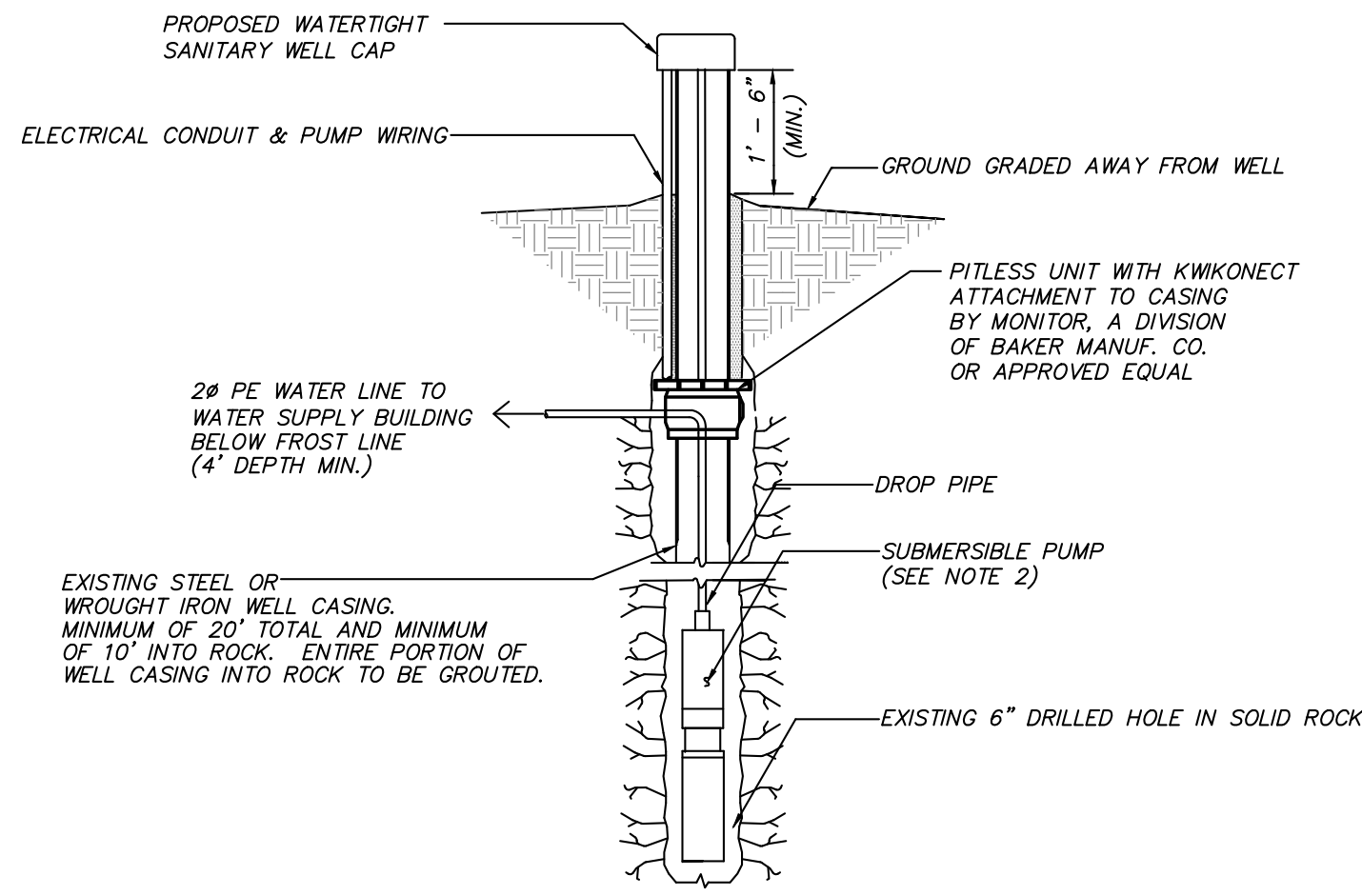
NOTE: NO GROUNDWATER, MOTTLING, OR ROCK ENCOUNTERED UNLESS NOTED.

Q.1:	0'-6": TOPSOIL 6"-36": YELLOW BROWN SANDY LOAM 36"-60": BROWN MODERATELY COMPACTED SAND & GRAVEL 60"-84"+: GRAY COARSE SAND & GRAVEL
Q.2:	0'-6": TOPSOIL 6"-36": YELLOW BROWN SANDY LOAM 36"-84"+: GRAY COMPACTED COARSE SAND & GRAVEL
Q.3:	0'-6": TOPSOIL 6"-36": YELLOW BROWN SANDY LOAM 36"-84"+: GRAY COMPACTED COARSE SAND & GRAVEL
Q.4:	0'-6": TOPSOIL 6"-36": YELLOW BROWN SANDY LOAM 36"-60": BROWN MODERATELY COMPACTED SAND & GRAVEL 60"-96"+: GRAY COARSE SAND & GRAVEL
Q.5:	0'-6": TOPSOIL 6"-36": YELLOW BROWN SANDY LOAM 36"-60": BROWN MODERATELY COMPACTED SAND & GRAVEL 60"-84"+: GRAY COARSE SAND & GRAVEL
Q.6:	0'-6": TOPSOIL 6"-36": YELLOW BROWN SANDY LOAM 36"-84"+: GRAY COMPACTED COARSE SAND & GRAVEL
Q.7:	0'-6": TOPSOIL 6"-36": YELLOW BROWN SANDY LOAM 36"-84"+: GRAY COMPACTED COARSE SAND & GRAVEL
Q.8:	0'-6": TOPSOIL 6"-24": YELLOW BROWN SANDY LOAM 24"-48": BROWN SANDY LOAM 48"-60"+: GRAY COMPACTED SAND & GRAVEL
Q.9:	0'-6": TOPSOIL 6"-24": YELLOW BROWN SANDY LOAM 24"-48": BROWN SANDY LOAM 48"-72"+: GRAY COMPACTED SAND & GRAVEL

SSTS DESIGN DATA

TOTAL DESIGN FLOW: = 1,280 GPD

DESIGN PERCOLATION RATE: 11-15 MIN/IN
REQUIRED LENGTH OF ABSORPTION TRENCH: 800 L.F. PRIMARY, 802 L.F. PROVIDED (801 L.F. EXPANSION)
PRECAST CONCRETE SEPTIC TANK: 2,000 GALLON
ADDITIONAL REQUIREMENTS: DOSING TANK



NOTES:

1. PROVIDE SANITARY SEALS WHERE NECESSARY.
2. FINAL PUMP SELECTION SHALL BE MADE BY ENGINEER, PRIOR TO CONSTRUCTION.
3. MINIMUM WELL YIELD SOUGHT IS XXX GPM

PITLESS UNIT WELL DETAIL
(N.T.S.)

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1	07-29-19	REVISED FOR PLANNING BOARD SUBMISSION	KAM
NO.	DATE	REVISION	BY

INSITE
ENGINEERING, SURVEYING &
LANDSCAPE ARCHITECTURE, P.C.

3 Garrett Place
Carmel, NY 10512
(845) 225-9690
(845) 225-9717 fax
www.insite-eng.com

PROJECT:
**PUTNAM VALLEY FIRE STATION #1
AND AMENDED SITE PLAN FOR
PUTNAM VALLEY AMBULANCE CORPS**
OSCANNA LAKE ROAD, TOWN OF PUTNAM VALLEY, COUNTY OF PUTNAM, NEW YORK

DRAWING:

SSTS & WELL DETAILS

PROJECT NUMBER	09105.100	PROJECT MANAGER	J.J.C.	DRAWING NO.	SHEET
DATE	7-29-19	DRAWN BY	M.E.U.	HD-2	10
SCALE	AS SHOWN	CHECKED BY	E.M.S.		10