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ANTHONY GIANNICO
Vice Chairman

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KIM KUGLER
RAYMOND COTE
ROBERT FRENKEL
MARK PORCELLI
VICTORIA CAUSA

**TOWN OF CARMEL
PLANNING BOARD**



60 McAlpin Avenue
Mahopac, New York 10541
Tel. (845) 628-1500 – Ext.190
www.ci.carmel.ny.us

MICHAEL CARNAZZA
*Director of Code
Enforcement*

RICHARD FRANZETTI, P.E.
Town Engineer

PATRICK CLEARY,
AICP, CEP, PP, LEED AP
Town Planner

**PLANNING BOARD AGENDA
OCTOBER 21, 2020 – 7:00 P.M.**

TAX MAP # PUB. HEARING MAP DATE COMMENTS

PUBLIC HEARING

1. Carmel Fire Department – 94 Gleneida Ave (Lot Line Adjustment)	44.14-1-24	10/21/20	9/8/20	Public Hearing/Resolution
2. Carmel Fire Department – 94 Gleneida Ave (Site Plan)	44.14-1-24	10/21/20	9/8/20	Open Public Hearing
3. Melchner, Charles & Stephanie – 417 Seminary Hill Road, Carmel	66.-2-37	10/21/20	7/28/20	Public Hearing/Resolution

SITE PLAN

4. Mahoven LLC (Kaneti) – 737 South Lake Blvd	75.42-1-13		9/3/20	Special Site Plan
5. 14 Nicole Way LLC (Zakon) – 14 Nicole Way	65.6-1-22		9/29/20	Site Plan

SUBDIVISION

6. Old Forge Estates – Baldwin Place Road	75.15-1-19-40		8/20/20	Cluster Subdivision
7. Itzla Subdivision – 9 Mechanic Street	55.14-1-6		12/5/19	2 Lot Subdivision

MISCELLANEOUS

8. 70 Old Route 6, LLC – 70 Old Route 6, Carmel (formerly Tompkins Recycling Facility)	55.11-1-15		12/8/16	Extension of Final Site Plan Approval
9. Centennial Golf Club of New York, LLC	44.-2-2,3,4			Resolution
10. Minutes – 08/19/20				



October 9, 2020

Town of Carmel Planning Board
60 McAlpin Avenue
Mahopac, New York 10541

RE: Carmel Fire Department
94 Gleneida Avenue
Town of Carmel
TM# 44.14-1-24

Dear Chairman Paepre and Members of the Board:

Please find enclosed five (5) copies of the following documents in support of an amended site plan application for the above referenced project:

- Site Plans prepared by Insite Engineering, Surveying, and Landscape Architecture P.C. dated May 20, 2020 revised October 8, 2020.
- Letter by Michael Liguori of Hogan & Rossi dated October 9, 2020.

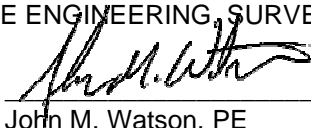
Since the last submission, a traffic study was completed for MSB United Hudson Bank analyzing the use of the eastern driveway between the Bank Parcel and the Carmel Fire Department Parcel. Based on those findings MSB United Hudson Bank is stating that two-way traffic will need to be provided, as it currently exists, from the Bank Parcel connecting to Garrett Place / Vink Drive. Drawing SP-2 has been updated to include additional directional pavement markings, signage, and a note stating that "A member of the Carmel Fire Department will be present when a fire apparatus returns and enters the apparatus bay in order to direct non-fire department traffic generated by the Bank Parcel." It should be noted that a variance was granted by the Zoning Board of Appeals for two-way traffic at the 20' wide driveway.

We respectfully request this project be placed on the October 21, 2020 Planning Board meeting for the discussion of the attached material and continuation of a Public Hearing. Should you have any questions or comments regarding this information, please feel free to contact our office.

Very truly yours,

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

By: _____


John M. Watson, PE
Principal Engineer

JMW/kms

Enclosures

Cc: Michael Hengel / Carmel Fire Department
Michael T. Liguori / Hogan & Rossi, Esqs.
Eric Neiler, H2M Architects

HOGAN & ROSSI

Attorneys At Law
3 Starr Ridge Road - Suite 200
Brewster, New York 10509

John J. Hogan
Donald M. Rossi
Michael T. Liguori*
Jamie Spillane**
Courtney J. Day**
* Also Admitted in CT
** Also Admitted in NJ

Telephone: (845) 279-2986
Facsimile: (845) 279-6425
(845) 278-6135

Of Counsel
Nancy Tagliaferro*
Mary Jane MacCrae
Scott J. Steiner
Bonnie N. Fienzig

October 9, 2020

Hon. Craig Paeprer, Chairman and Members of the
Town of Carmel Planning Board
67 McAlpin Avenue
Mahopac, New York 10541

Re: Carmel Fire Department, Inc.
Two Way Traffic on Access Drive

Dear Chairman and Members:

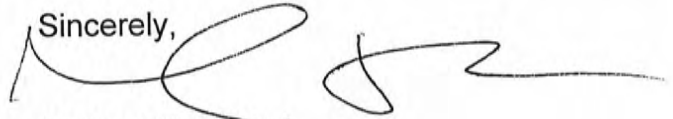
The purpose of this letter is to supplement the current submittal by Insite Engineering, Surveying and Landscape Architecture, P.C. for the Carmel Fire Department, Inc. about two-way traffic on the access drive.

Following the recent traffic study prepared by Creighton Manning, we were able to obtain consent from TD that traffic could be limited to one way only based on the limited percentage of usage, however, this posed a new problem. TD would give its consent, but only if the easement was limited to all party's usage of the access drive was one way only instead of just TD's traffic. While the Fire Department traffic's circulation is intended to be an ingress into the fire house with an exit direction of Vink, it does not want to give up its right to be able to exit the new driveway should the need ever arise. Further, one way only on the entirety of the easement could potentially affect the Volunteer Ambulance Corp.'s usage and that simply does not work.

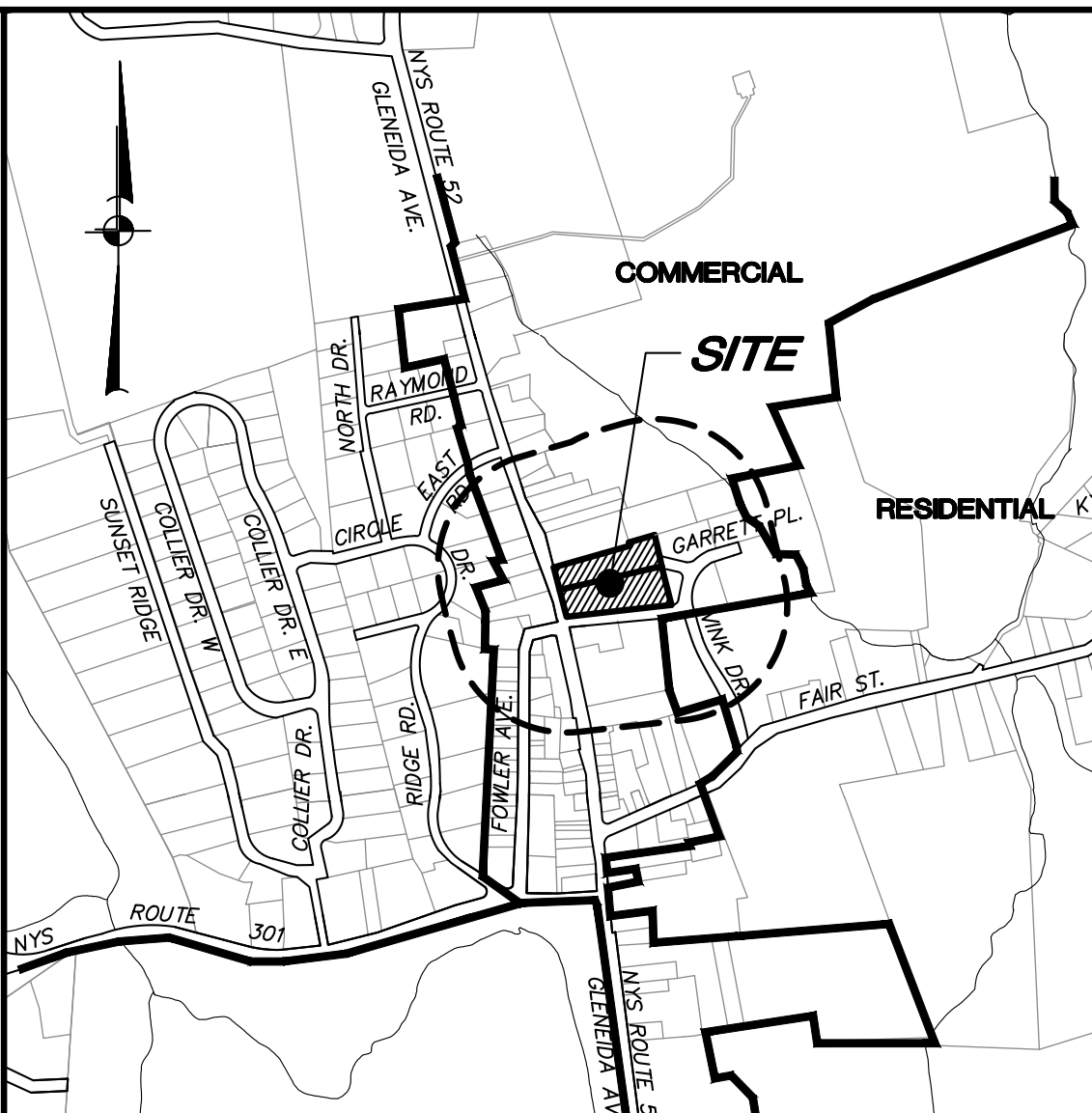
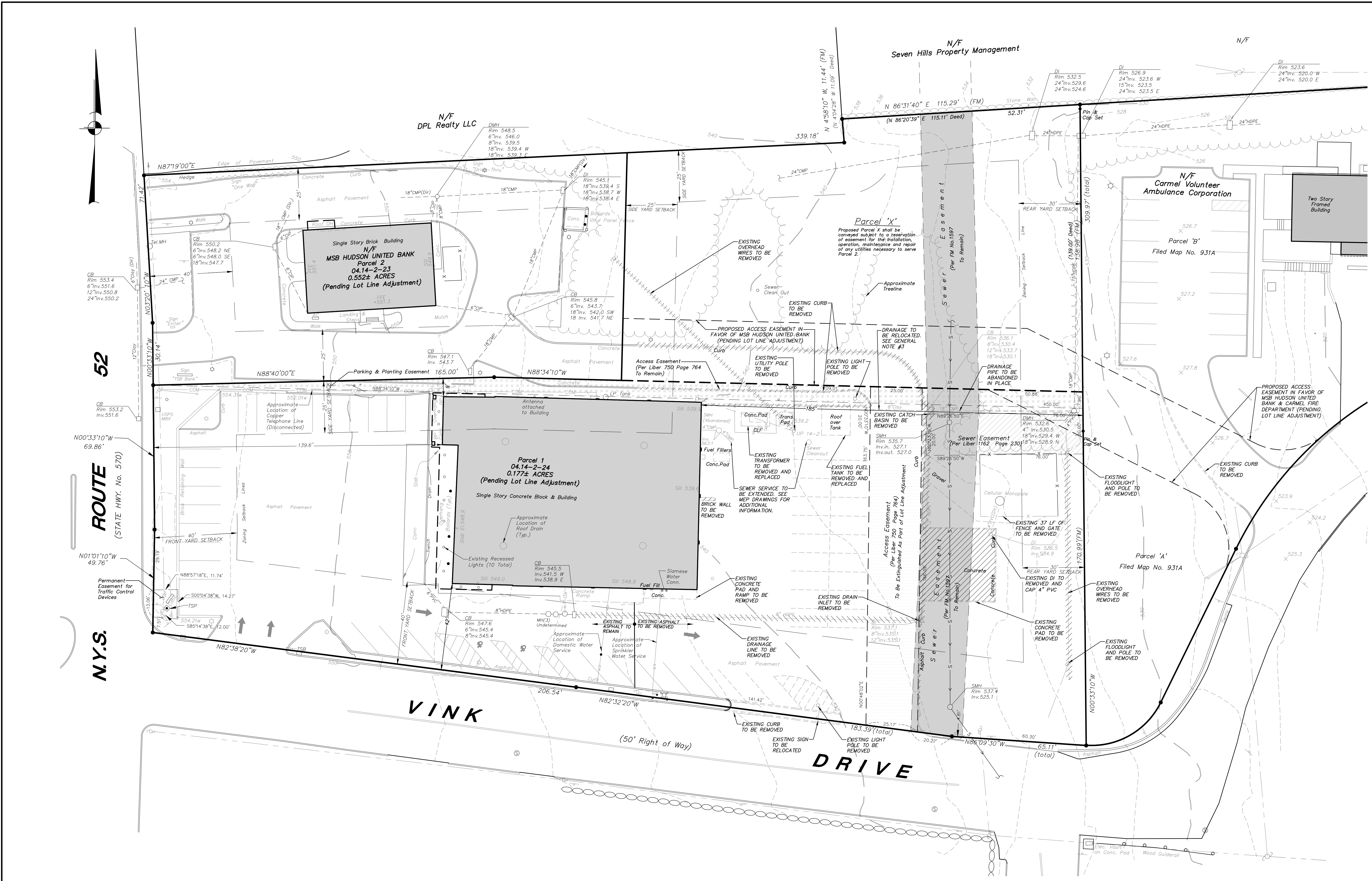
Our proposal, therefore, in addition to the installation of traffic signage, is to implement standard operating procedures for the Fire Department for the use of the driveway to provide that when an apparatus is using the driveway that it give the right of way to vehicular traffic and that volunteers exit the apparatus and physically direct traffic while the driveway is in use. The Fire Department is already experienced with situations like this as it regularly directs traffic as a significant part of its operations. Moreover, driver training and apparatus usage are also an integral part of its operations and all of the drivers and members can be trained about usage of the driveway and these requirements can be consistently applied.

We thank the Board in advance for consideration of the foregoing and ask it note that we have used our best efforts to achieve a solution for the Board's concern and while we were hopeful that we could accommodate the Board's request, we simply were unable to. We believe, however, that the current proposal is safe and can be consistently applied.

Sincerely,

A handwritten signature in black ink, consisting of a large, stylized initial 'M' followed by a series of loops and a long horizontal stroke extending to the right.

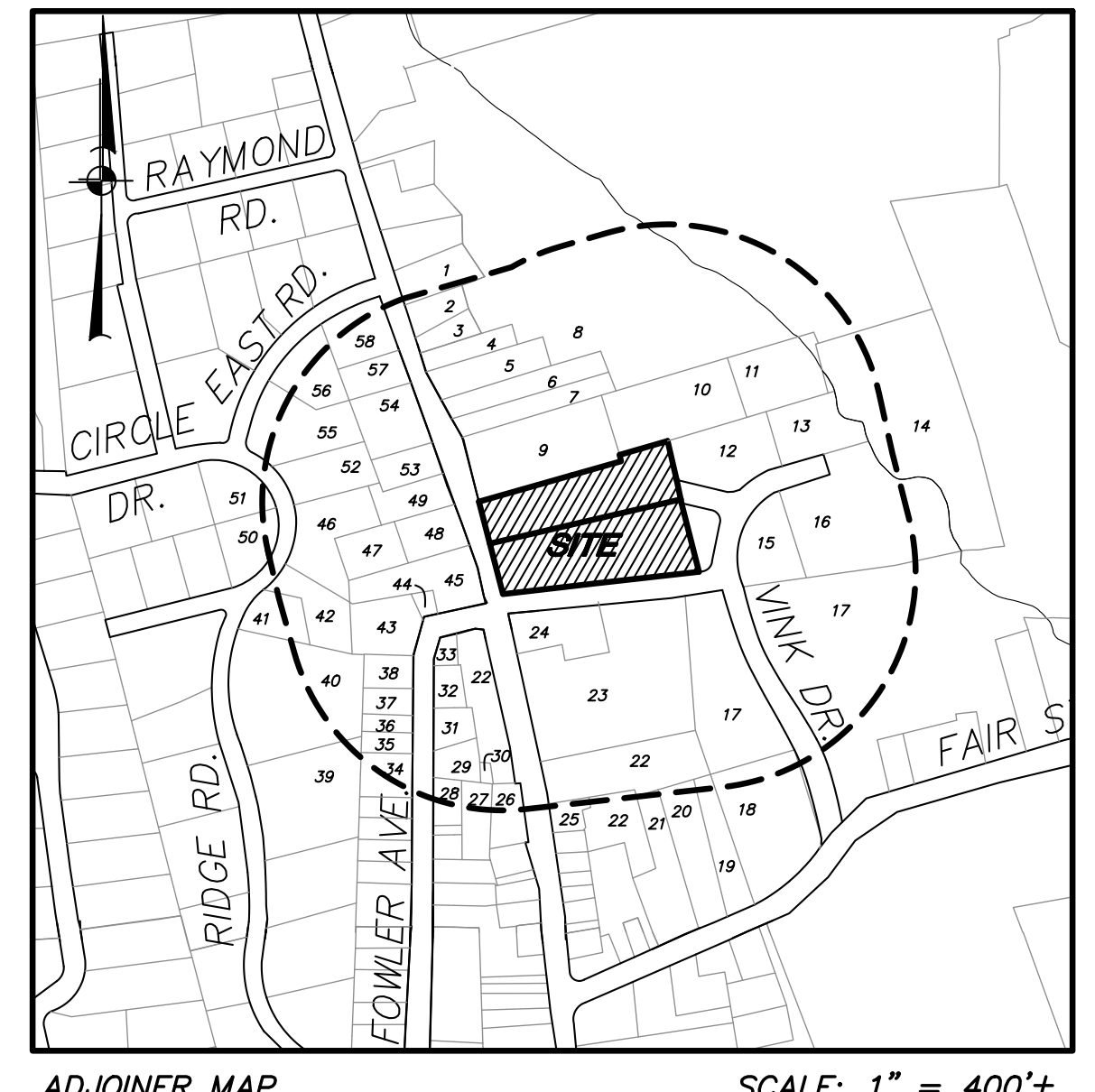
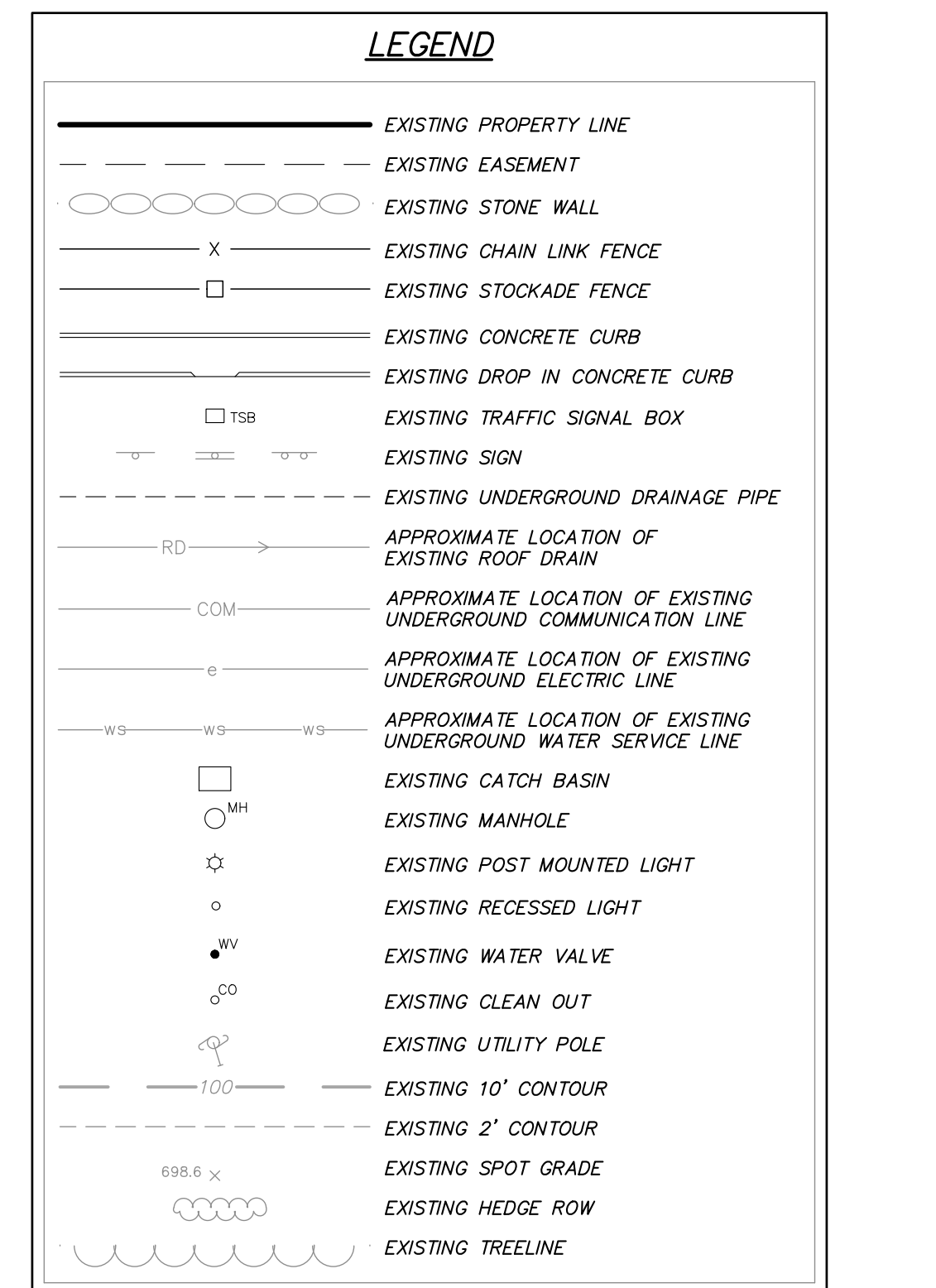
Michael T. Liguori



OWNER/APPLICANT:
CARMEL FIRE DEPARTMENT, INC.
94 GLENIDA AVENUE
CARMEL, NY 12012

SITE DATA:
Zone: Commercial
Total Acreage 2.2 AC
Tax Map No.: 44.14-1-24

- GENERAL NOTES:**
- Location map boundary information shown hereon is taken from the Putnam County Tax Map.
 - Property boundary, site features and existing topography shown hereon is based upon fieldwork performed by Insite Engineering, Surveying & Landscape Architecture, P.C., completed December 13, 2019. Elevations shown hereon are in NAVD83. The contour interval is 2'.
 - Contractor to determine roof drain and footing drain locations and relocate as required.



- 500' ADJOINERS:**
TOWN OF CARMEL
- | | |
|----------------------------------|-------------------------------------|
| 1. Rodolfo A Roque | 30. Carmel Board of Fire Commission |
| 2. Susan P Alm | 31. Longview Realty Corp |
| 3. Marcel Carrillo | 32. Maria J Casti |
| 4. Louis Solofani | 33. Mary T Kipp |
| 5. Joyce McGlasson | 34. Augusto Sacchetti |
| 6. Rick Montes | 35. Marlon Ramlogan |
| 7. Edward M Schaffer | 36. Kevin D O'Donnell |
| 8. Rt 52 Housing Devel Fund Co | 37. JRP Associates LLC |
| 9. DPL Realty, LLC | 38. Ernest Fernandez |
| 10. Seven Hills Property Mgmt | 39. David Chau |
| 11. Michael Yodanis | 40. Yocasta Doss |
| 12. Carmel Vol Ambulance Corp | 41. Allan J Eyring |
| 13. John Mitchell | 42. Michelle Hides |
| 14. Hugo Hayes LLC | 43. BND Fowler Property, LLC |
| 15. Harman Holdings Ltd | 44. David Radovich |
| 16. Harman Holdings Ltd | 45. Fowler Ave Corp |
| 17. Main Woodland Trail | 46. William Rippey |
| 18. United States Postal Service | 47. Richard McGlasson |
| 19. Ranic Enterprises Corp | 48. 91 Glenida LLC |
| 20. 17 Fair St, LLC | 49. 91 Glenida LLC |
| 21. Wenco Properties Corp | 50. Josephine Alessi |
| 22. Mt Carmel Baptist Church | 51. Eleanor Vitalis |
| 23. Kelly Connelly Inc | 52. James P McGuire |
| 24. 90 Glenida Ave Corp | 53. P & R Estate Corp |
| 25. Mt Carmel Baptist Church | 54. 99 Glenida Avenue LLC |
| 26. Wayne Ryder | 55. Carla D Taylor |
| 27. Robert A Hall | 56. Philip P Ford |
| 28. Peter Falbach | 57. Wayne Ryder |
| 29. Robert Hall | 58. 105 Glenida Ave Corp. |

3	10-8-20	PLANNING BOARD SUBMISSION	ERA
2	8-7-20	PLANNING BOARD SUBMISSION	KMG
1	7-17-20	PLANNING BOARD SUBMISSION	ERA
NO.	DATE	REVISION	BY

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

3 Garrett Place
Carmel, NY 12012
(845) 225-9690
(845) 225-9177 fax
www.insite-eng.com

PROJECT:
CARMEL FIRE DEPARTMENT
94 GLENIDA AVENUE, CARMEL, PUTNAM COUNTY, NEW YORK

DRAWING:
EXISTING CONDITIONS & REMOVALS PLAN

PROJECT NUMBER: 19135.100
DATE: 5-20-20
SCALE: 1" = 20'

PROJECT MANAGER: J.M.W.
DRAWN BY: C.B.Z.
CHECKED BY: K.M.G.

DRAWING NO. SHEET: EX-1 / 10

GRAPHIC SCALE:
0 10 20 30
(IN FEET)
1 inch = 20 ft.

ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 2209 OF ARTICLE 145 OF THE EDUCATION LAW.

PLANT LIST				
QUANTITY	KEY	BOTANICAL/COMMON NAME	SIZE	ROOT/SPACING
23	TO	<i>Thuja occidentalis</i> 'Emerald Green' / Emerald Green Arborvitae	6'-7"	8&8
11	IN	<i>Ilex 'Nellie R. Stevens'</i> / Nellie R. Stevens' Holly	5'-6"	#25

APPARATUS BAY ENTRANCE NOTES:

- A member of the Carmel Fire Department will be present when a fire apparatus returns and enters the apparatus bay in order to direct non-fire department traffic generated by the Bank Parcel.

LEGEND	
	EXISTING PROPERTY LINE
	EXISTING EASEMENT
	EXISTING STONE WALL
	EXISTING CHAIN LINK FENCE
	EXISTING STOCKADE FENCE
	EXISTING CONCRETE CURB
	EXISTING DROP IN CONCRETE CURB
	EXISTING SIGN
	EXISTING HEDGE ROW
	EXISTING TREELINE
	EXISTING POST MOUNTED LIGHT
	EXISTING UTILITY POLE
	PROPOSED # OF STALLS TO BE STRIPED
	PROPOSED CONCRETE CURB
	PROPOSED PAINTED HANDICAP PARKING SYMBOL
	PROPOSED STRIPED ISLAND
	PROPOSED SINGLE POLE SIGN
	PROPOSED POLE MOUNTED LIGHT
	PROPOSED BUILDING MOUNTED LIGHT

SIGN DATA TABLE				
LOCATION NO.	TEXT	M.U.T.C.D. NUMBER	SIZE OF SIGN (S.F.)	DESCRIPTION
1		NY R7-8*	12" x 18"	Green on White Blue Symbol
		R7-8P	12" x 6"	Green on White
2		R7-1	12" x 18"	Red on White
3		R5-1C	30" x 30"	White on Red

C ZONE REQUIREMENTS:

	Requires/Permits:	Existing:	Proposed:
Minimum Lot Area:	40,000 SF	94,830 SF	94,830 SF
Minimum Lot Width:	200'	261'±	261'±
Minimum Lot Depth:	200'	450'±	450'±
Minimum Road Frontage:	100'	574.7'±	574.7'±
Minimum Yard Setbacks:			
Front:	40'	42'±	41'±
Side:	25'	8.9'±**	8.9'±**
Rear:	30'	185'±	78'±
Maximum Building Height:	35'	Less Than 35'	Less Than 35'
Minimum Building Floor Area:	5,000 SF	>5,000 SF±	26,900 SF±
Maximum Building Coverage:	30%	14%±**	22%±**

- * Pre-existing nonconforming condition
- ** Includes a 775 sf allocation for structures within the cellular tower facility.
- *** The applicant was granted a variance for a driveway less than 24' (§ 145-42 D) by the Town of Carmel Zoning Board of Appeals on August 27, 2020. The variance was granted for a 20' driveway.

PARKING SUMMARY	
REQUIRED:	
FIRE DEPARTMENT SPACES (CALCULATED AS WHOLESALE, WAREHOUSE, STORAGE HEAVY COMMERCIAL ESTABLISHMENTS) 12,524 S.F. @ 1 SPACE/1,000 S.F. = 12 REQUIRED	
6,976 S.F. OF OFFICE SPACE @ 1 SPACE/200 S.F. = 35 REQUIRED	
* 2,400 S.F. OF APPARATUS BAYS ARE NOTE INCLUDED PARKING CALCULATIONS	
TOTAL PARKING SPACE REQUIRED	= 48 REQUIRED
TOTAL PARKING SPACE PROVIDED	= 48 PROVIDED

OUTDOOR TRAINING NOTES:

- Outdoor training will occur offsite at the county fire training center. If outdoor training does occur on site, it will occur nights and weekends when possible, and training area will be closed off to preserve necessary vehicular circulation.

GENERAL PLANTING NOTES:

- All proposed planting beds to receive a 12" min. depth of topsoil. Soil amendments and fertilizer application rates shall be determined based on specific testing of topsoil material.
- Any new soils added will be amended as required by results of soil testing and placed using a method that will not cause compaction.
- All plant material to be nursery grown.
- Plants shall conform with ANSI Z60.1 American Standard for Nursery Stock in all ways including dimensions.
- Plant material shall be taken from healthy nursery stock.
- All plants shall be grown under climate conditions similar to those in the locality of the project.
- Plants shall be planted in all locations designed on the plan or as staked in the field by the Landscape Architect.
- The location and layout of landscape plants shown on the site plan shall take precedence in any discrepancies between the quantities of plants shown on the plans and the quantity of plants in the Plant List.
- Provide a 3" layer of shredded pine bark mulch (or as specified) over entire watering saucer of all tree sites or over entire planting bed. Do not place mulch within 3" of tree or shrub trunks.
- All landscape plantings shall be maintained in a healthy condition at all times. Any dead or diseased plants shall immediately be replaced "in kind" by the contractor (during warranty period) or project owner.
- All plantings shall be installed per § 142 of the Town of Carmel Town Code. In addition, plantings shall be verified by the Town of Carmel Wetland Inspector.

3	10-8-20	PLANNING BOARD SUBMISSION	ERA
2	8-7-20	PLANNING BOARD SUBMISSION	KMG
1	7-17-20	PLANNING BOARD SUBMISSION	ERA
NO.	DATE	REVISION	BY

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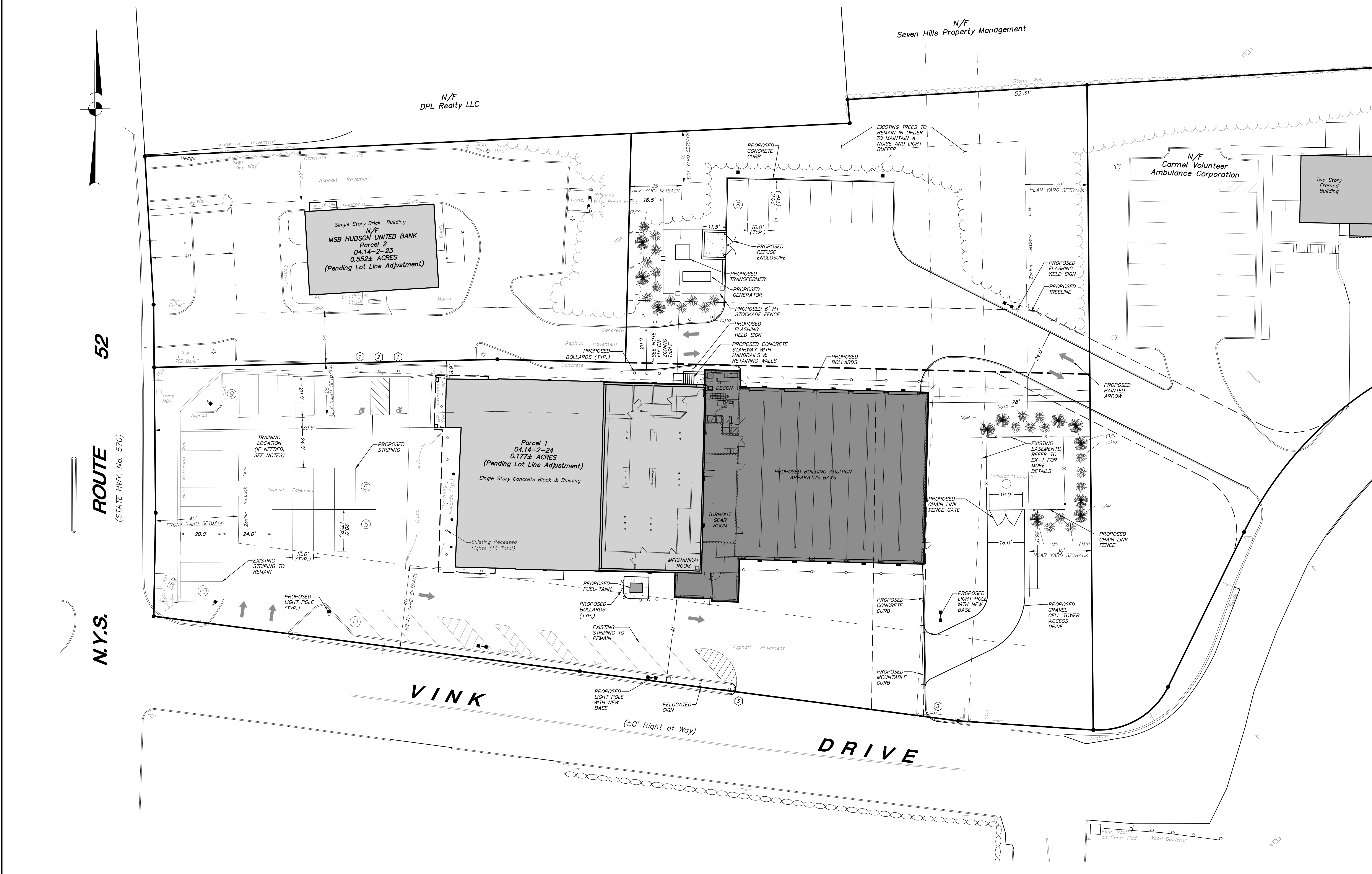
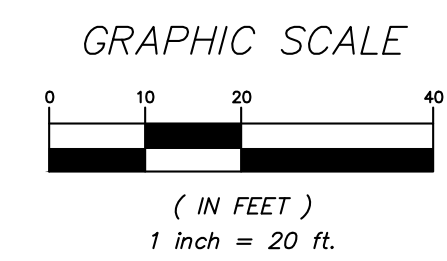
3 Garrett Place
Carmel, NY 12012
(845) 225-9690
(845) 225-9717 fax
www.insite-eng.com

PROJECT: **CARMELO FIRE DEPARTMENT**
94 GLENEDA AVENUE, CARMELO, PUTNAM COUNTY, NEW YORK

DRAWING: **LAYOUT AND LANDSCAPE PLAN**

PROJECT NUMBER: 19135.100 PROJECT MANAGER: J.M.W.
DATE: 5-20-20 DRAWN BY: C.B.Z.
SCALE: 1" = 20' CHECKED BY: K.M.G.

DRAWING NO. SHEET
SP-1 2
10



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EARTHWORK SUMMARY:

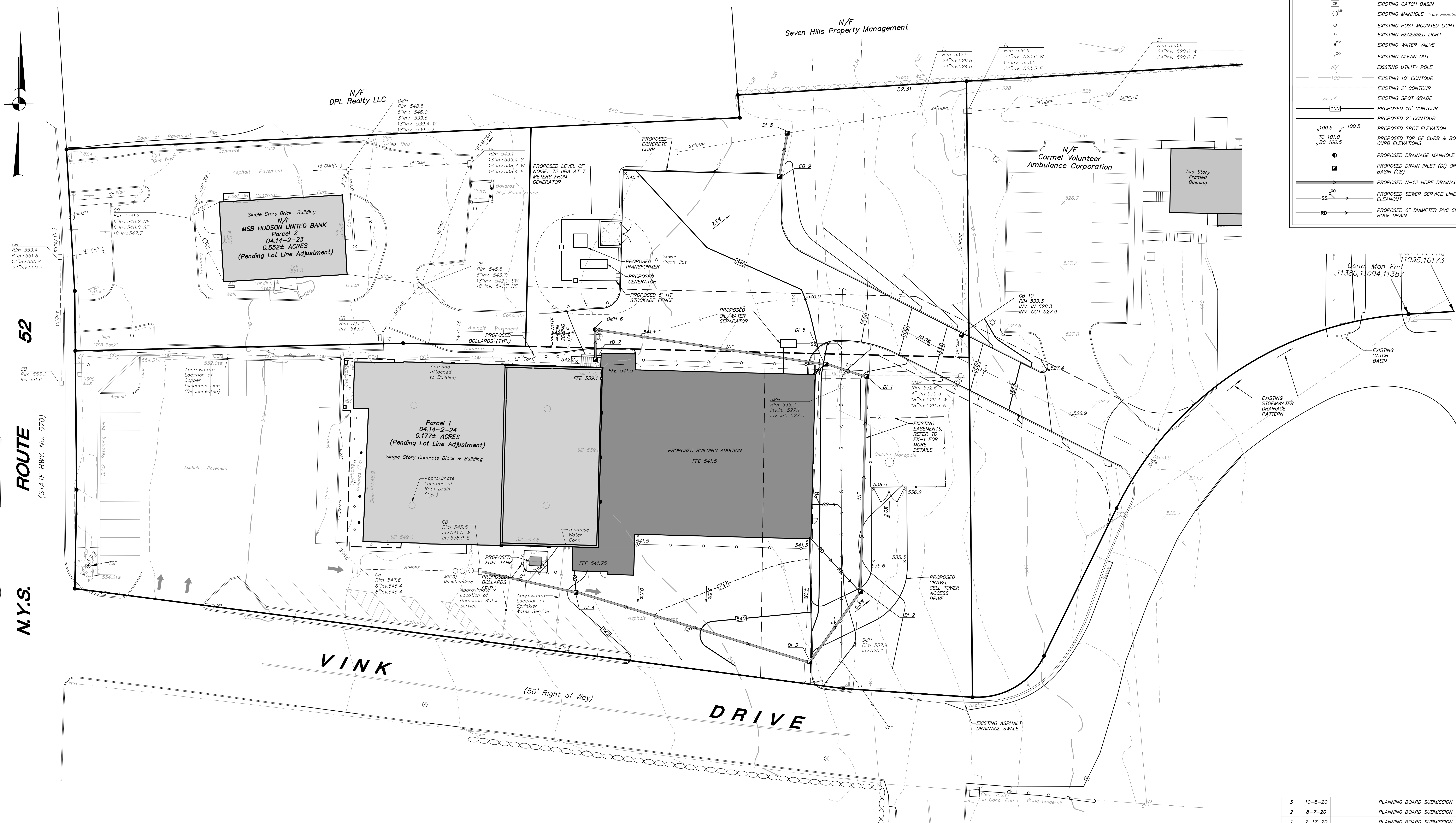
CUT: 280 C.Y.
 FILL: 1,760 C.Y.
 TOTAL: 1,480 C.Y. (FILL)

EARTHWORK NOTES:

1. THE EARTHWORK CALCULATIONS ILLUSTRATES THE CUTS AND FILLS BASED ON THE DIFFERENCE BETWEEN THE EXISTING AND PROPOSED FINISHED GRADES.
2. ALL VOLUMES WERE ROUNDED TO THE NEAREST 10 CUBIC YARDS.
3. FACTORS FOR SWELL OR COMPACTION WERE NOT APPLIED IN THIS ANALYSIS.
4. THIS ANALYSIS IS PRELIMINARY AND PROVIDED FOR PERMITTING ONLY. THESE NUMBERS SHOULD NOT BE USED BY A CONTRACTOR FOR BIDDING PURPOSES. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THEIR OWN EARTHWORK ANALYSIS.

LEGEND

	EXISTING PROPERTY LINE
	EXISTING EASEMENT
	EXISTING STONE WALL
	EXISTING CHAIN LINK FENCE
	EXISTING STOCKADE FENCE
	EXISTING CONCRETE CURB
	EXISTING DROP IN CONCRETE CURB
	EXISTING TRAFFIC SIGNAL BOX
	EXISTING SIGN
	EXISTING UNDERGROUND DRAINAGE PIPE
	EXISTING CATCH BASIN
	EXISTING MANHOLE (Type unidentified)
	EXISTING POST MOUNTED LIGHT
	EXISTING RECESSED LIGHT
	EXISTING WATER VALVE
	EXISTING CLEAN OUT
	EXISTING UTILITY POLE
	EXISTING 10' CONTOUR
	EXISTING 2' CONTOUR
	EXISTING SPOT GRADE
	PROPOSED 10' CONTOUR
	PROPOSED 2' CONTOUR
	PROPOSED SPOT ELEVATION
	PROPOSED TOP OF CURB & BOTTOM OF CURB ELEVATIONS
	PROPOSED DRAINAGE MANHOLE
	PROPOSED DRAIN INLET (DI) OR CATCH BASIN (CB)
	PROPOSED N-12 HDPE DRAINAGE PIPE
	PROPOSED SEWER SERVICE LINE WITH CLEANOUT
	PROPOSED 6" DIAMETER PVC SDR 35 ROOF DRAIN

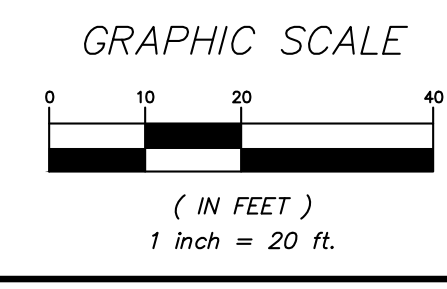


52

ROUTE
(STATE HWY. No. 570)

N.Y.S.

VINK DRIVE
(50' Right of Way)



3	10-8-20	PLANNING BOARD SUBMISSION	ERA
2	8-7-20	PLANNING BOARD SUBMISSION	KMG
1	7-17-20	PLANNING BOARD SUBMISSION	ERA
NO.	DATE	REVISION	BY

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

PROJECT: **CARMELO FIRE DEPARTMENT**
 94 GLENEDA AVENUE, CARMELO, PUTNAM COUNTY, NEW YORK

DRAWING: **GRADING AND UTILITIES PLAN**

PROJECT NUMBER: 19135.100 PROJECT MANAGER: J.M.W.
 DATE: 5-20-20 DRAWN BY: C.B.Z.
 SCALE: 1" = 20' CHECKED BY: K.M.G.

DRAWING NO. SHEET
SP-2 3
 10

ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 2209 OF ARTICLE 145 OF THE EDUCATION LAW.

EROSION AND SEDIMENT CONTROL MAINTENANCE SCHEDULE

PRACTICE	MONITORING REQUIREMENTS			MAINTENANCE REQUIREMENTS	
	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
INLET PROTECTION	-	Inspect	Inspect	Clean/Repair/Replace	Remove
DUST CONTROL	Inspect	-	Inspect	Mulching/Spraying Water	N/A
VEGETATIVE ESTABLISHMENT	-	Inspect	Inspect	Water/Reseed/Remulch	Reseed to 80% Coverage
SOIL STOCKPILES	-	Inspect	Inspect	Mulching/Silt Fence Repair	Remove
CONCRETE DRAINAGE STRUCTURES	-	Inspect	Inspect	Clean Sumps/Remove Debris/Repair/Replace	See Permanent Stormwater Facilities Maintenance Schedule on Drawing D-10
DRAINAGE PIPES	-	Inspect	Inspect	Clean/Repair	
ACCESS ROAD / PAVEMENT	-	Inspect	Inspect	Clean	Clean

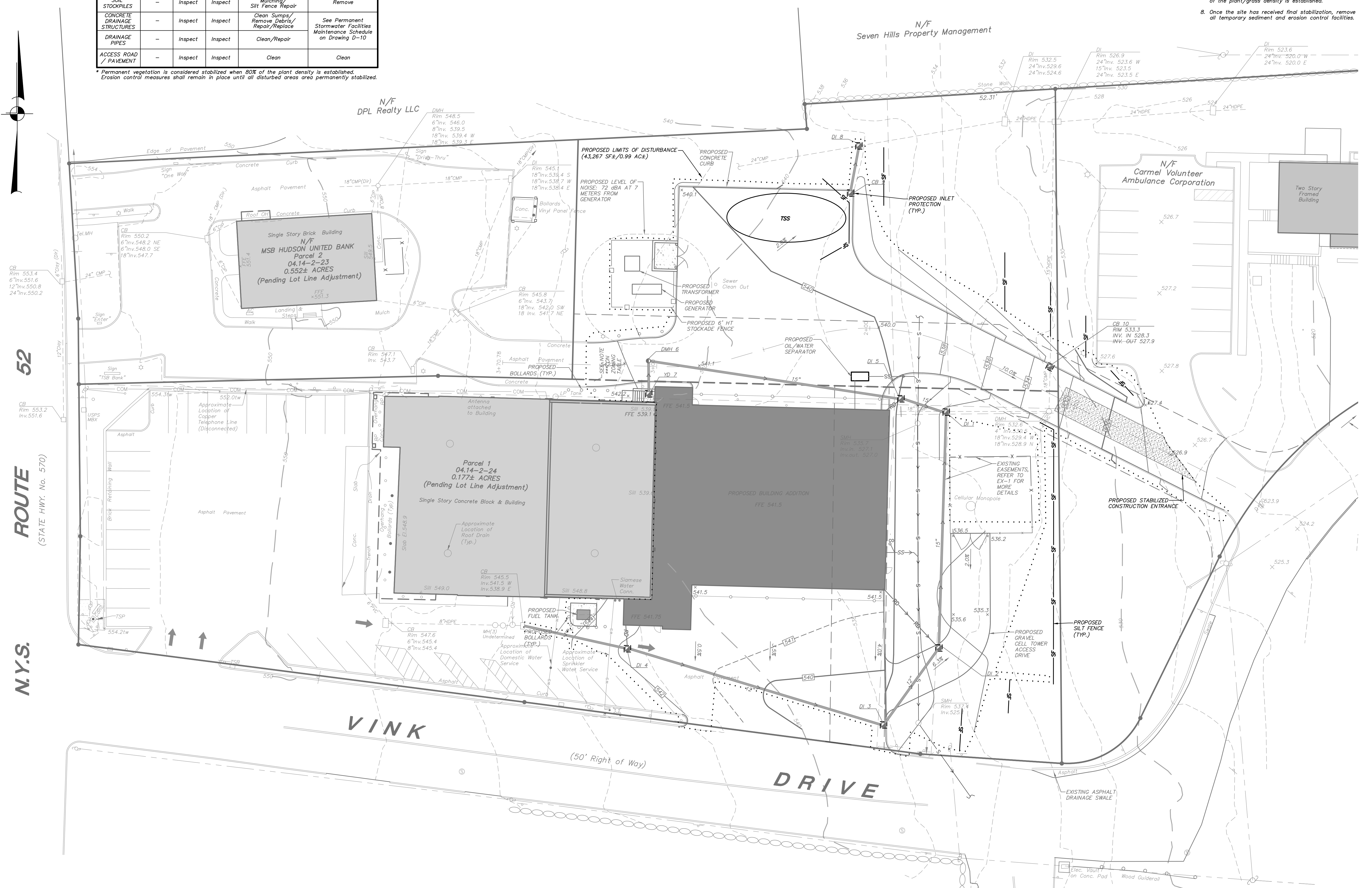
* Permanent vegetation is considered stabilized when 80% of the plant density is established. Erosion control measures shall remain in place until all disturbed areas are permanently stabilized.

CONSTRUCTION SEQUENCE:

- Schedule Pre-Construction meeting with Site Engineer / Town.
- Install silt fence and stabilized construction entrance as shown on plans in accordance with the plan and detail. Install orange construction fence in locations shown on the plan.
- Begin clearing and grubbing operations associated with the site work improvements.
- Begin building addition, stormwater system and sewer connection construction.
- Upon completion of stormwater system, connect roof leader drains.
- Install subbase and pavement for parking lot and driveway areas.
- Upon completion of all work, stabilize disturbed areas in accordance with the Sediment and Erosion Control Notes. Permanent stabilization is achieved when 80% of the plant/grass density is established.
- Once the site has received final stabilization, remove all temporary sediment and erosion control facilities.

LEGEND

	EXISTING PROPERTY LINE
	EXISTING EASEMENT
	EXISTING STONE WALL
	EXISTING CHAIN LINK FENCE
	EXISTING STOCKPADE FENCE
	EXISTING CONCRETE CURB
	EXISTING DROP IN CONCRETE CURB
	EXISTING TRAFFIC SIGNAL BOX
	EXISTING SIGN
	EXISTING UNDERGROUND DRAINAGE PIPE
	EXISTING CATCH BASIN
	EXISTING MANHOLE (Type indicated)
	EXISTING POST MOUNTED LIGHT
	EXISTING RECESSED LIGHT
	EXISTING WATER VALVE
	EXISTING CLEAN OUT
	EXISTING UTILITY POLE
	EXISTING 10' CONTOUR
	EXISTING 2' CONTOUR
	EXISTING SPOT GRADE
	PROPOSED 10' CONTOUR
	PROPOSED 2' CONTOUR
	PROPOSED SPOT ELEVATION
	PROPOSED TOP OF CURB & BOTTOM OF CURB ELEVATIONS
	PROPOSED DRAIN INLET (DI) OR CATCH BASIN (CB) WITH INLET PROTECTION
	PROPOSED SILT FENCE
	PROPOSED CONSTRUCTION FENCE
	PROPOSED TEMPORARY SOIL STOCKPILE
	PROPOSED STABILIZED CONSTRUCTION ENTRANCE

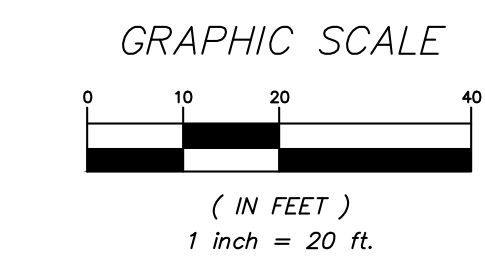


EROSION & SEDIMENT CONTROL NOTES:

- The owner's field representative (O.F.R.) will be responsible for the implementation and maintenance of erosion and sediment 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. In the areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased. Disturbance shall be minimized to the areas required to perform construction.
- Silt 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 for temporary stabilization. Ryegrass (annual or perennial) at a rate of 30 lbs. per acre shall be used for temporary seeding in spring, summer or early fall. "Aristook" Winter Rye (cereal rye) shall be used for temporary seeding in late fall and winter.
- Any disturbed areas not subject to further disturbance or construction traffic, permanent or temporary, shall have soil stabilization measures initiated for permanent vegetation cover in combination with a suitable mulch within 1 business day of final grading. 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 as directed by project representative at a rate of 100 pounds per acre in the following proportions:
 - Kentucky Bluegrass 30%
 - 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. Seeding shall be performed in accordance with the current edition of the "NYS DOT Standard Specification, Construction and Materials, Section 612-3.02, Method No. 1". Hydroseeding shall be performed using materials and methods as approved by the site engineer.
- Cut or fill slopes steeper than 3:1 shall be stabilized immediately after grading with Curlex J 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.
- Erosion and sediment 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 erosion and sediment 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 fills 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 erosion and sediment control measures, as specified by the site engineer and/or the Town Engineer shall be installed by the contractor.
- Erosion and sediment control measures shall remain in place until all disturbed areas are suitably stabilized.

REQUIRED SWPPP CONTENTS PER GP-0-20-001:

- Pursuant to the NYSDEC "SPDES General Permit for Stormwater Discharges from Construction Activity" (GP-0-20-001), all Stormwater Pollution Prevention Plans (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-1 of General Permit GP-0-20-001:
 - Background information: The proposed project includes a building addition which consists of a new apparatus bay space, support spaces for equipment, storage and training as well as the addition of a new driveway, relocation of utilities and site amenities. The existing SWPPP components is provided to include office, meeting and display spaces.
 - Site map / construction drawing: These plans serve to satisfy this SWPPP requirement.
 - Description of the soils present at the site: Onsite soils located within the proposed limits of disturbance consist of Urban (and) Chariton complex (Uhs), as identified on the Soil Conservation Service Web Soil Survey. These soil types belong to the Hydrologic Soil Group "D."
 - Construction phasing plan / sequence of operations: The Construction Sequence and phasing found on these plans provide the required phasing. A Construction Sequence and Erosion and Sediment Control Maintenance Schedule has been provided. The Sedimentation and Erosion Control Notes contained herein 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.
 - Description of erosion and sediment control practices: This plan, and details / notes shown herein serve to satisfy this SWPPP requirement.
 - Temporary and permanent soil stabilization plan: The Sedimentation and Erosion Control Notes and Details provided herein 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 showing the specific locations, sizes, and lengths of each erosion and sediment control practice: 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, Erosion and Sediment Control Notes, and Erosion and Sediment Control Maintenance Schedule serve to satisfy this SWPPP requirement.
 - An inspection schedule: Inspections are to be performed daily by a NYSDEC Trained Contractor as cited in the Erosion and Sediment 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 dumpsters 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."



3	10-8-20	PLANNING BOARD SUBMISSION	ERA
2	8-7-20	PLANNING BOARD SUBMISSION	KMG
1	7-17-20	PLANNING BOARD SUBMISSION	ERA
NO.	DATE	REVISION	BY

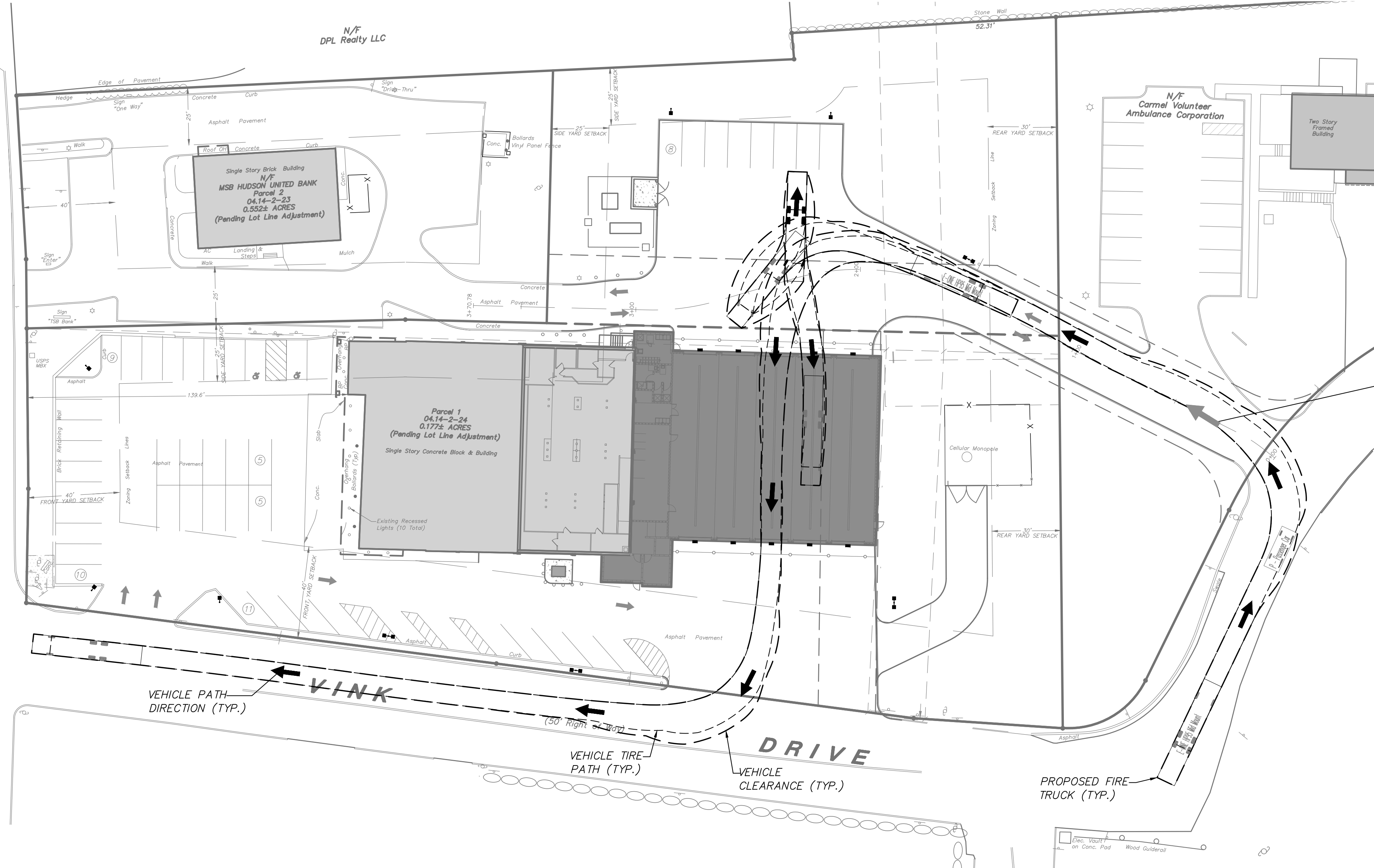
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ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.

PROJECT: **CARMELO FIRE DEPARTMENT**
94 GLENDALE AVENUE, CARMELO, PUTNAM COUNTY, NEW YORK

DRAWING: **EROSION AND SEDIMENT CONTROL PLAN**

PROJECT NUMBER	19135.100	PROJECT MANAGER	J.M.W.	DRAWING NO.	SHEET
DATE	5-20-20	DRAWN BY	C.B.Z.		4
SCALE	1" = 20'	CHECKED BY	K.M.G.		10

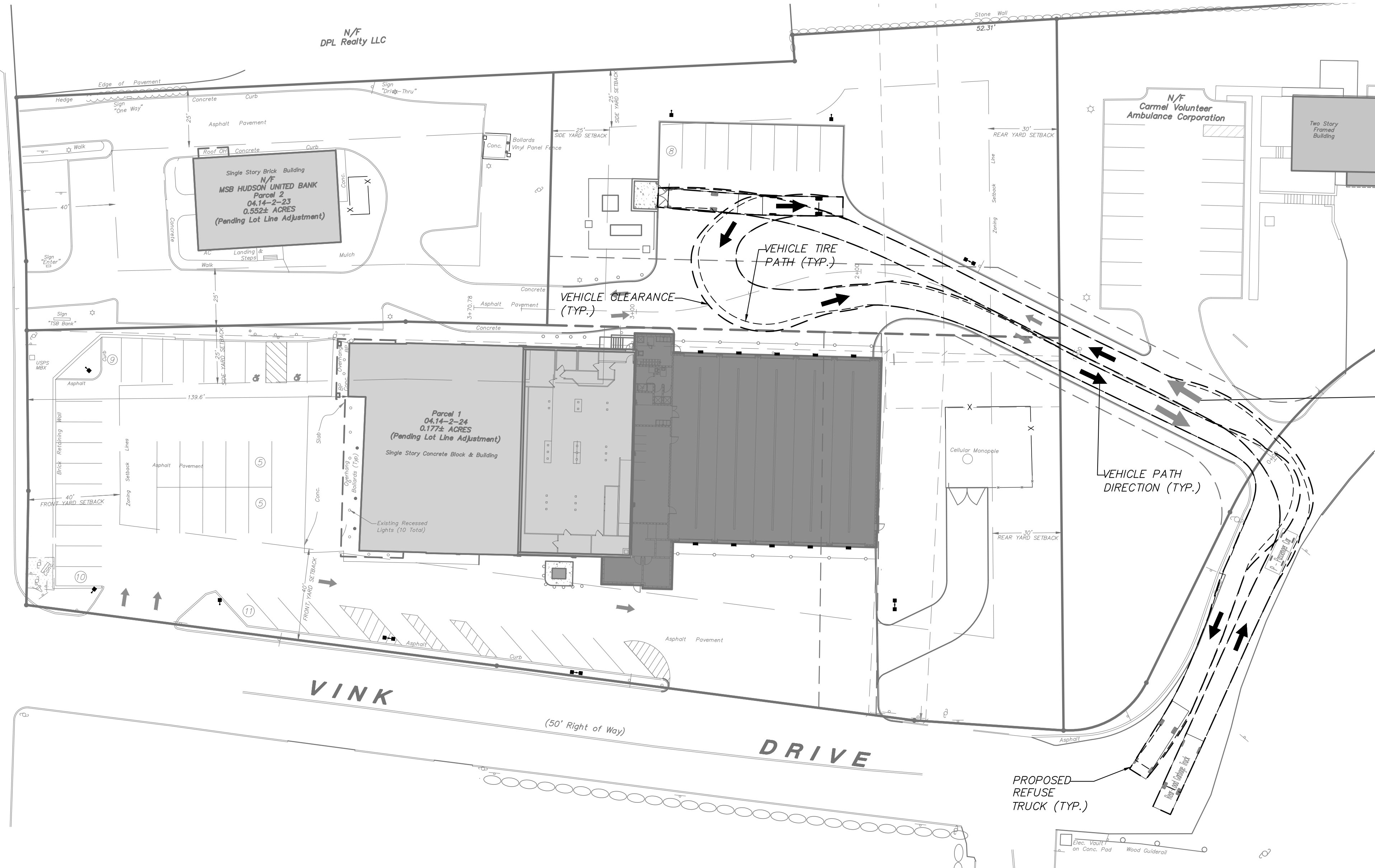
52
ROUTE
(STATE HWY. No. 570)
N.Y.S.



FIRE TRUCK VEHICLE MANEUVER

SCALE: 1" = 30'
NOTE: The fire truck used for vehicle maneuvering is an "E-ONE HP95 Mid Mount". The overall length is 47'-9" and width is 8'-4". The dimensions show that a fire truck of this size, or similar, will be able to maneuver through the property.

52
ROUTE
(STATE HWY. No. 570)
N.Y.S.



REFUSE TRUCK VEHICLE MANEUVER

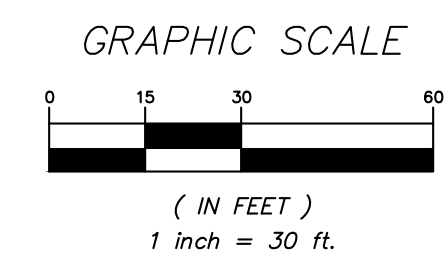
SCALE: 1" = 30'
NOTE: The refuse truck used for vehicle maneuvering is a standard truck with an overall length of 33'-0" and width of 8'-4". These standard dimensions show that a garbage truck of this size, or similar, will be able to maneuver through the property.

LEGEND

	EXISTING PROPERTY LINE
	EXISTING EASEMENT
	EXISTING STONE WALL
	EXISTING CHAIN LINK FENCE
	EXISTING STOCKADE FENCE
	EXISTING CONCRETE CURB
	EXISTING DROP IN CONCRETE CURB
	EXISTING SIGN
	EXISTING POST MOUNTED LIGHT
	EXISTING RECESSED LIGHT
	EXISTING UTILITY POLE
	PROPOSED # OF STALLS TO BE STRIPED
	PROPOSED CONCRETE CURB
	PROPOSED PAINTED HANDICAP PARKING SYMBOL
	PROPOSED STRIPED ISLAND
	PROPOSED SINGLE POLE SIGN
	PROPOSED POLE MOUNTED LIGHT
	PROPOSED BUILDING MOUNTED LIGHT

EMERGENCY VEHICLE ACCESS ONLY

REFUSE ENTRANCE AND EXIT



2	10-8-20	PLANNING BOARD SUBMISSION	ERA
1	8-7-20	PLANNING BOARD SUBMISSION	KMG
NO.	DATE	REVISION	BY

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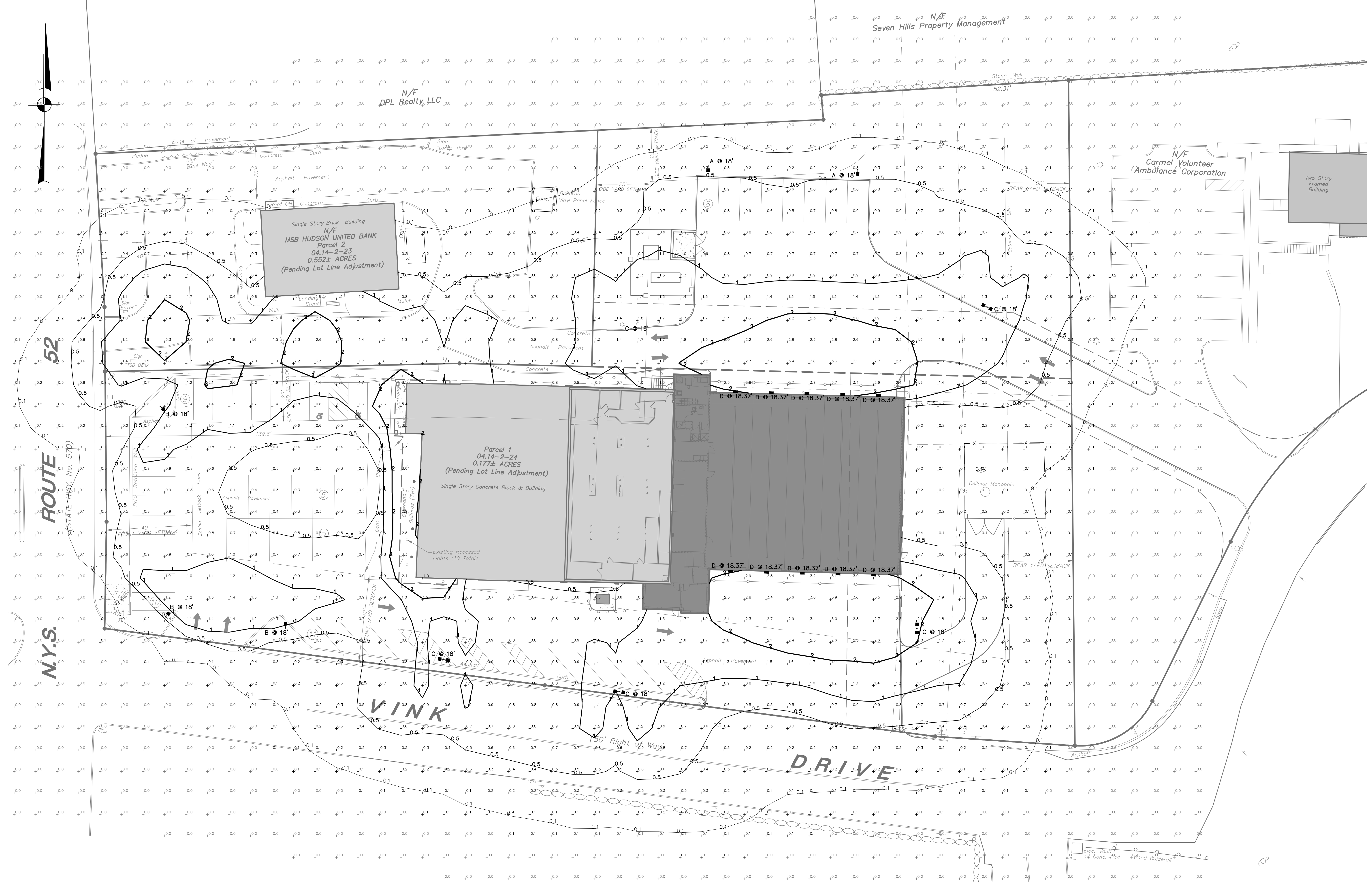
PROJECT: **CARMEL FIRE DEPARTMENT**
94 GLENEDA AVENUE, CARMEL, PUTNAM COUNTY, NEW YORK



DRAWING: **VEHICLE MANEUVERING PLAN**

PROJECT NUMBER	19135.100	PROJECT MANAGER	J.M.W.	DRAWING NO.	SP-4	SHEET	5
DATE	7-17-20	DRAWN BY	J.F.R.				10
SCALE	1" = 30'	CHECKED BY	K.M.G.				

ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 2209 OF ARTICLE 145 OF THE EDUCATION LAW.



LEGEND

	EXISTING PROPERTY LINE
	EXISTING EASEMENT
	EXISTING STONE WALL
	EXISTING CHAIN LINK FENCE
	EXISTING STOCKADE FENCE
	EXISTING CONCRETE CURB
	EXISTING DROP IN CONCRETE CURB
	EXISTING SIGN
	EXISTING HEDGE ROW
	EXISTING TREELINE
	EXISTING POST MOUNTED LIGHT
	EXISTING RECESSED LIGHT
	EXISTING UTILITY POLE
	PROPOSED # OF STALLS TO BE STRIPED
	PROPOSED CONCRETE CURB
	PROPOSED PAINTED HANDICAP PARKING SYMBOL
	PROPOSED STRIPED ISLAND
	PROPOSED SINGLE POLE SIGN
	PROPOSED POLE MOUNTED LIGHT
	PROPOSED BUILDING MOUNTED LIGHT

- LIGHTING NOTES:**
- All lighting shall be as noted on the plan or approved equal.
 - Style and finish of all luminaires to be selected by owner.
 - Calculation values shown in this plan are taken on a horizontal plane at ground level using a 0.90 light loss factor for LEDs. Topographical information and landscaping have not been accounted for in these calculations.
 - Photometric modeling based on similar or specified fixtures.
 - Lighting plan assumes that certain light fixtures will utilize existing foundations. Contractor verify prior to ordering fixtures and shall notify Project Landscape Architect if built pattern differs.
 - Light levels generated from lighting on adjacent properties are approximate and shown for informational purposes only.

LUMINAIRE SCHEDULE

Symbol	Qty	Catalog Number	Description	Lamp	Mounting Height
A	2	UCM2-ANC-36L-260-3K7-4W-10	ARCHITECTURAL AREA LIGHTING, UNIVERSE COLLECTION, MEDIUM 2.0, HOUSE-SIDE SHIELD	LED	18' - 0"
B	8	UCM2-ANC-36L-260-3K7-4W	ARCHITECTURAL AREA LIGHTING, UNIVERSE COLLECTION, MEDIUM 2.0	LED	AS NOTED
C	10	UCM2-ANC-36L-260-3K7-4W	ARCHITECTURAL AREA LIGHTING, UNIVERSE COLLECTION, MEDIUM 2.0	LED	18' - 4 1/2"
	10	N/A	EXISTING RECESSED BUILDING MOUNTED LIGHTING, MODELED FOR REFERENCE ONLY.	LED	N/A
	3	N/A	EXISTING FIXTURES LOCATED ON NEIGHBORING PARCEL, MODELED FOR REFERENCE ONLY.	LED	N/A

STATISTICS

DESCRIPTION	SYMBOL	AVG	MAX	MIN	AVG/MAX	AVG/MIN
Project Area		0.5 fc	5.4 fc	0.0 fc	N/A	N/A

LIGHT CONTOUR LEGEND

	0.10 Foot Candles
	0.50 Foot Candles
	1.00 Foot Candles
	2.00 Foot Candles

* Photometric calculations shown on plan are in foot candles.

UNIVERSE®

architectural arealighting

UCM2
ARCHITECTURAL AREA/SIDE

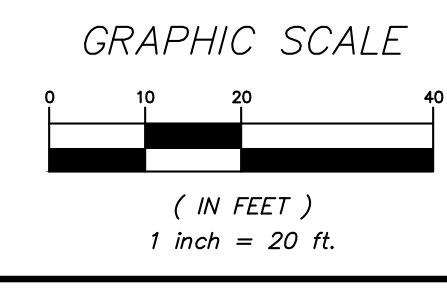
FEATURES

- Reliable, uniform, glare free illumination
- Types II, III, IV, V and custom distributions
- 3000K, 4000K, 5000K CCT
- 0-10V dimming ready
- Integral surge suppression
- 15 standard powder coat finishes
- Upgrade Kits

CONTROL TECHNOLOGY

wISCAPE HUBBELL HUBBELL Lighting

ETL **ida** **UL**



2	10-8-20	PLANNING BOARD SUBMISSION	ERA
1	8-7-20	PLANNING BOARD SUBMISSION	KMG
NO.	DATE	REVISION	BY

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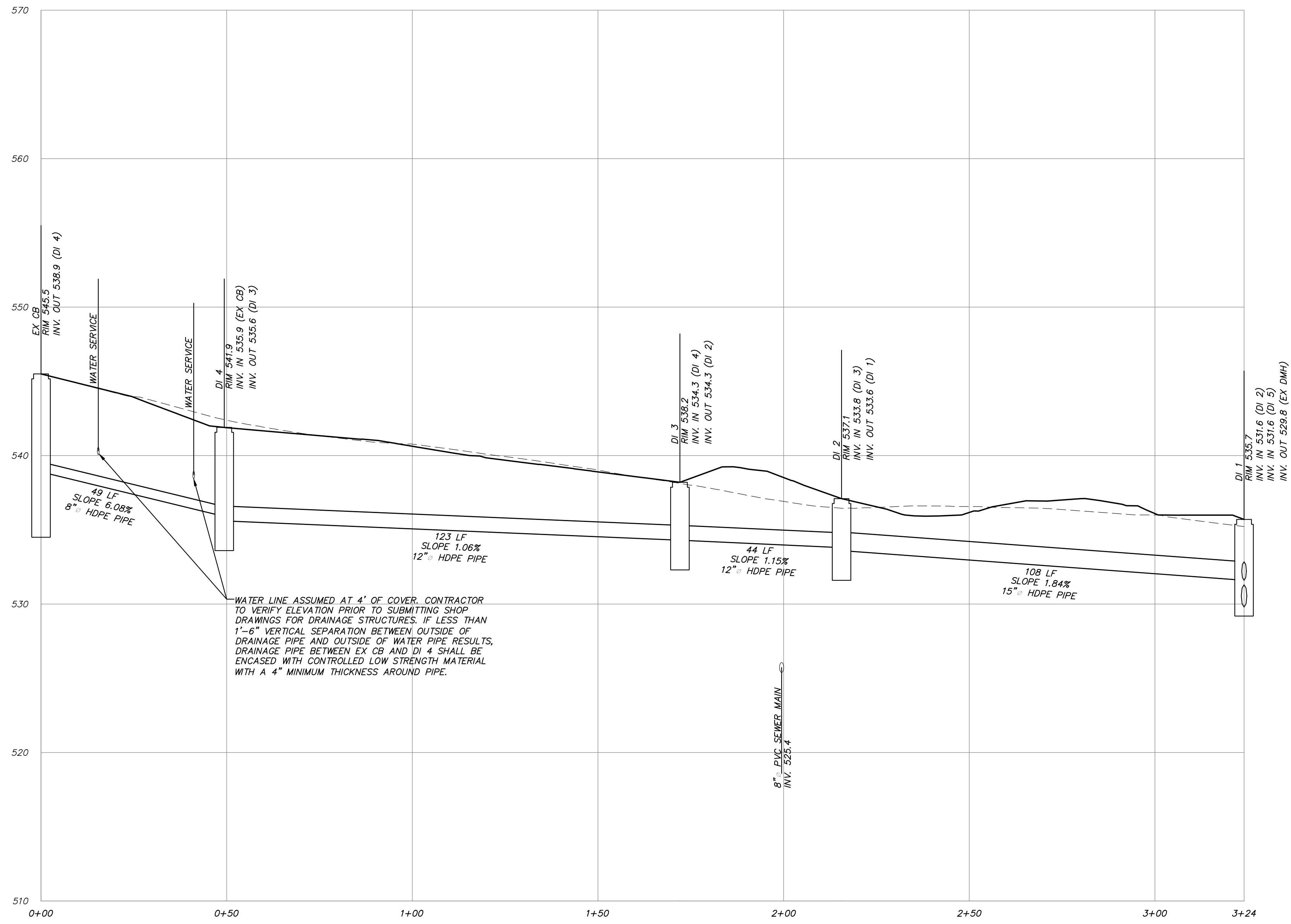
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PROJECT: **CARMEI FIRE DEPARTMENT**
94 GLENEDA AVENUE, CARMEI, PUTNAM COUNTY, NEW YORK

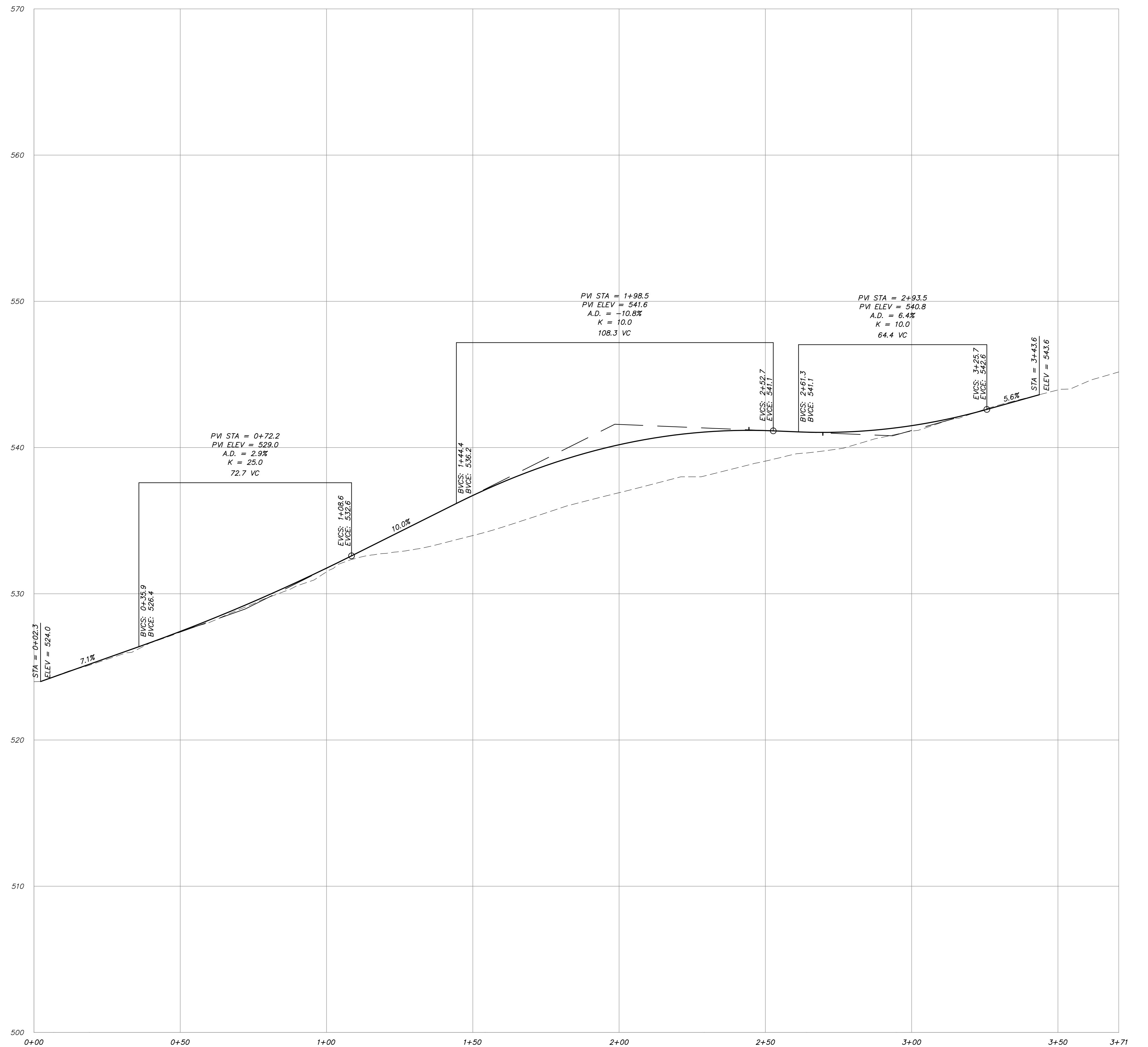
DRAWING: **LIGHTING PLAN**

PROJECT NUMBER	19135.100	PROJECT MANAGER	J.M.W.	DRAWING NO.	SHEET
DATE	7-17-20	DRAWN BY	J.F.R.		7
SCALE	1" = 20'	CHECKED BY	K.M.G.		10

ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 2209 OF ARTICLE 145 OF THE EDUCATION LAW.

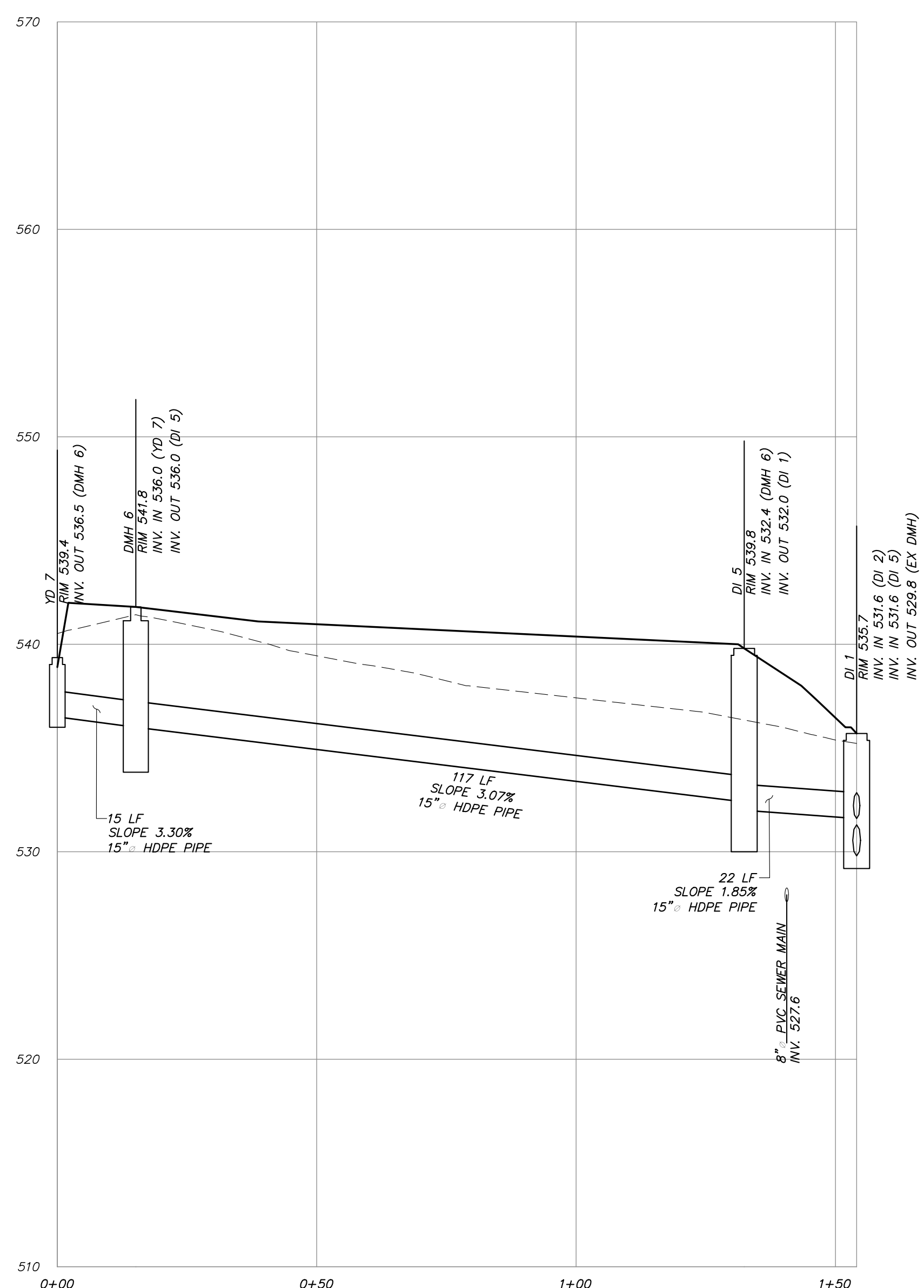


EX CB TO DI 1
SCALE: HORIZ. 1" = 20'
VER. 1" = 5'

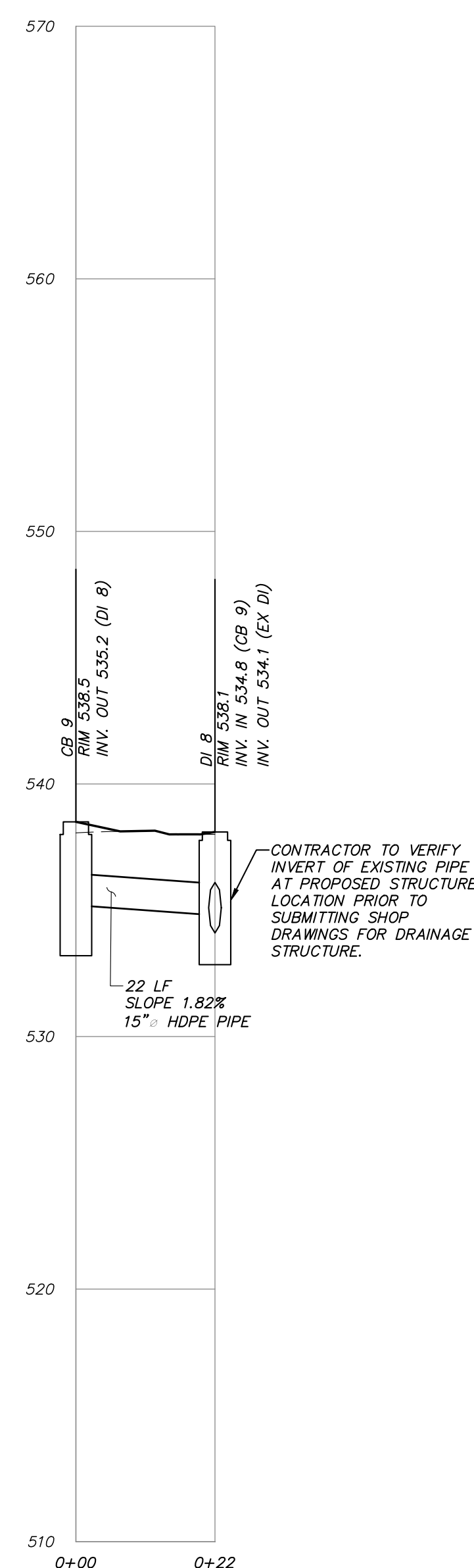


PROPOSED DRIVEWAY PROFILE

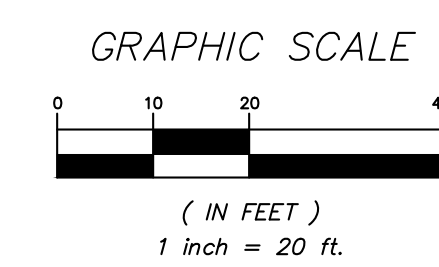
SCALE: HORIZ. 1" = 20'
VER. 1" = 4'



YD 7 TO DI 1
SCALE: HORIZ. 1" = 20'
VER. 1" = 5'



CB 9 TO DI 8
SCALE: HORIZ. 1" = 20'
VER. 1" = 5'



2	10-8-20	PLANNING BOARD SUBMISSION	ERA
1	8-7-20	PLANNING BOARD SUBMISSION	KMG
NO.	DATE	REVISION	BY

PROJECT: **CARMEL FIRE DEPARTMENT**
94 GLENEDA AVENUE, CARMEL, PUTNAM COUNTY, NEW YORK

DRAWING: **PROFILES**

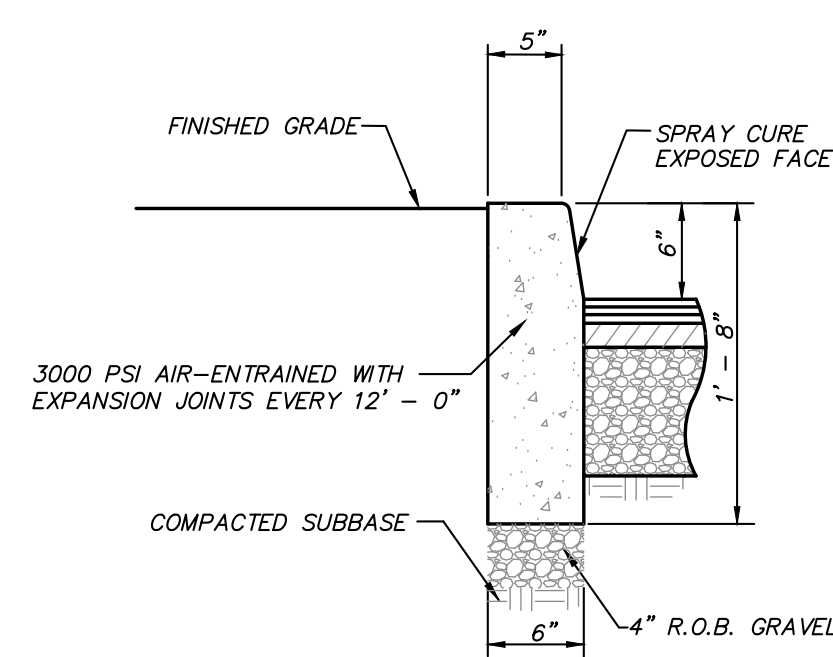
PROJECT NUMBER: 19135.100
DATE: 7-17-20
SCALE: AS SHOWN

PROJECT MANAGER: J.M.W.
DRAWN BY: C.B.Z.
CHECKED BY: K.M.G.

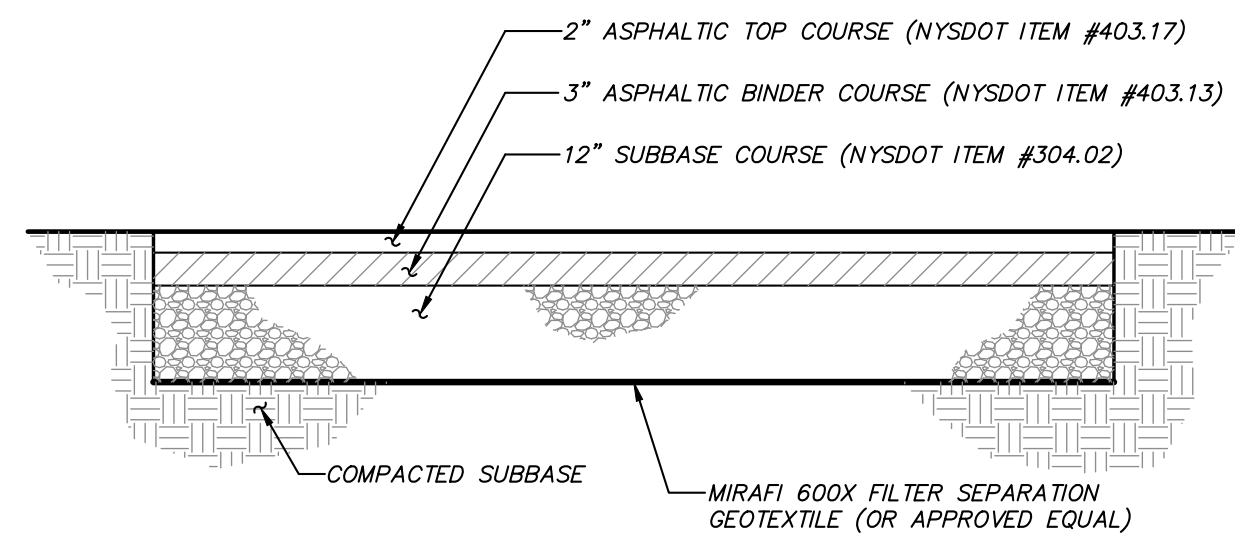
DRAWING NO. SHEET: PR-1 8/10

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LANDSCAPE ARCHITECT
No. 7793

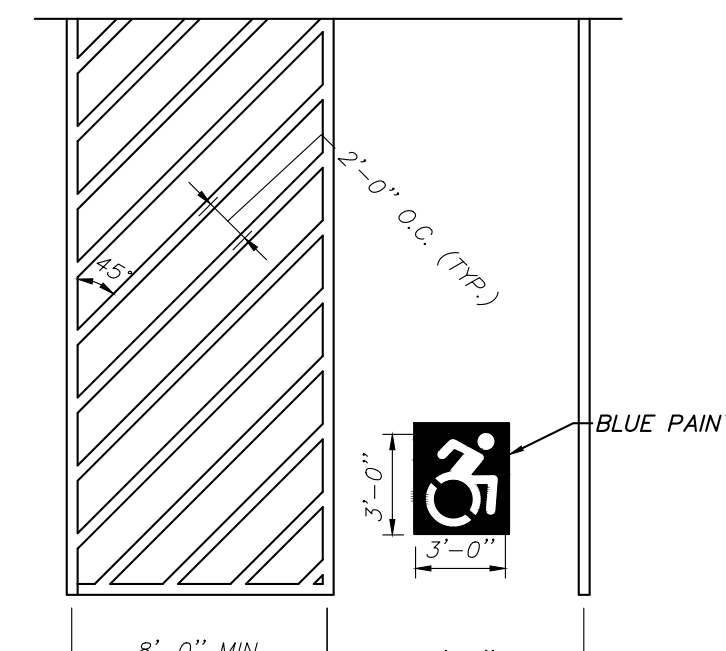


CONCRETE CURB DETAIL
(N.T.S.)

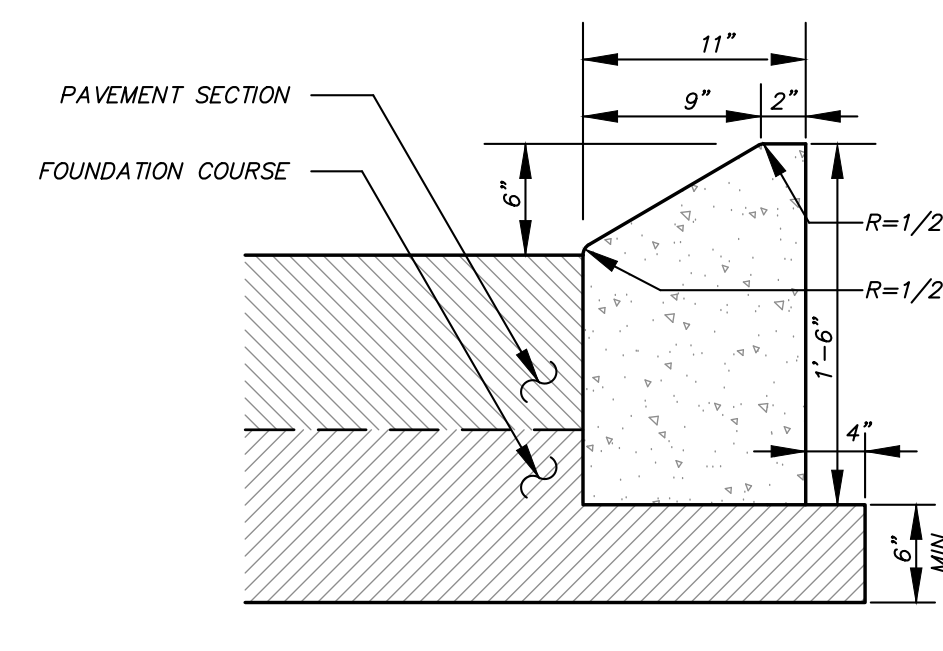


ASPHALT PAVEMENT DETAIL
(N.T.S.)

NOTE: DRIVEWAYS SHALL MEET CONSTRUCTION REQUIREMENTS AS OUTLINED IN THE TOWN OF CARMEL CODE §128 STREETS AND SIDEWALKS.

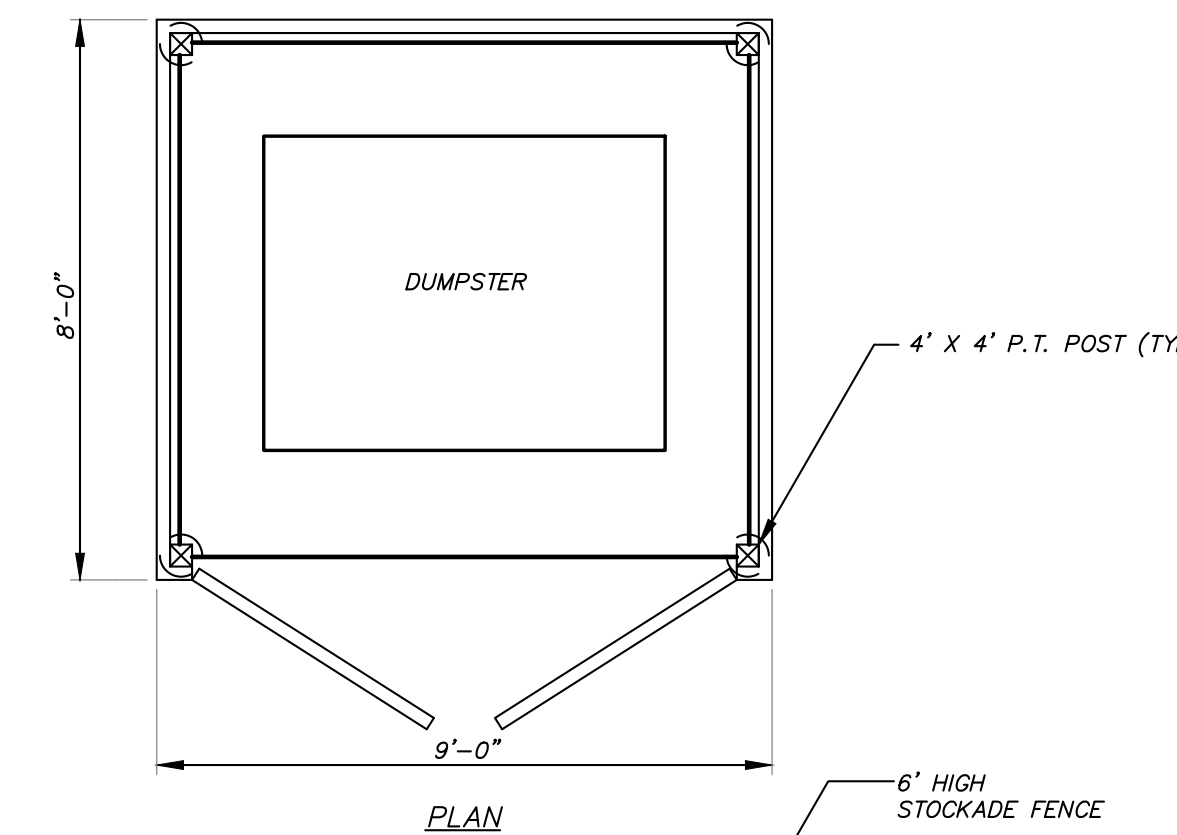


PAINTED NYS ACCESSIBLE PARKING DETAIL
(N.T.S.)

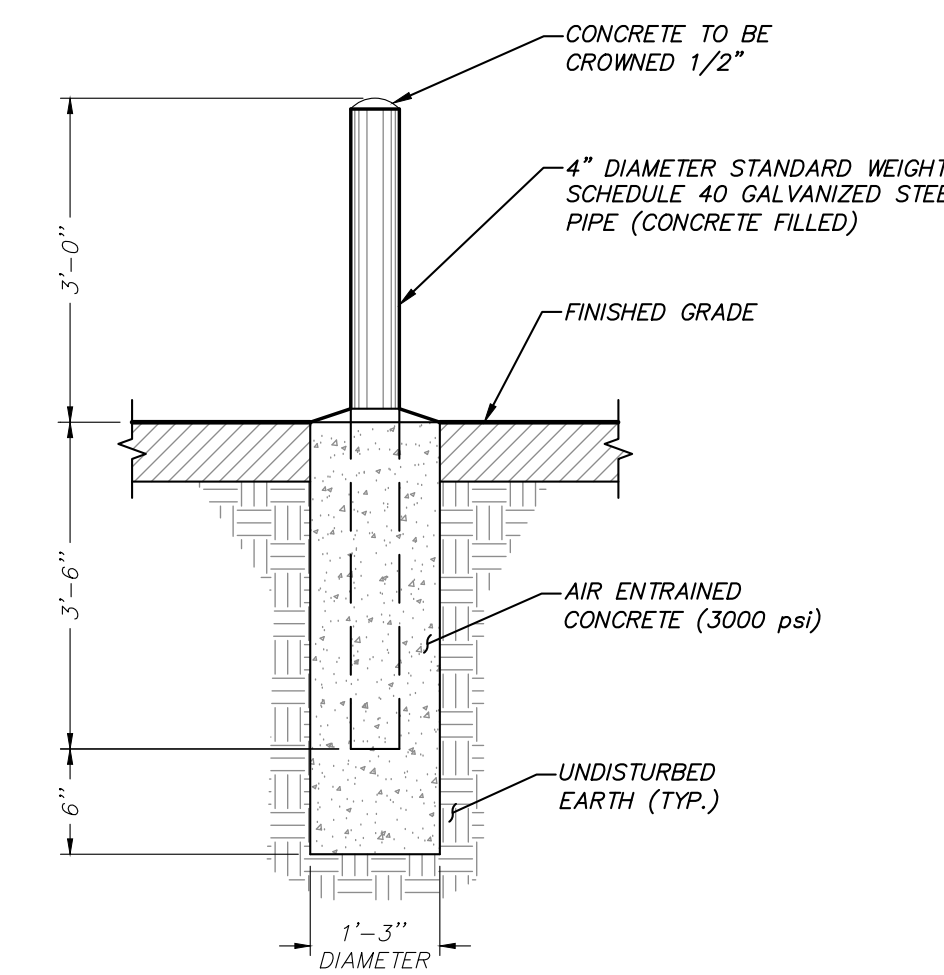


NOTE: TRANSVERSE JOINTS 1/2" WIDE SHALL BE INSTALLED IN THE CURB 10'-0" APART AND SHALL BE FILLED WITH CELLULAR COMPRESSION MATERIALS AS SPECIFIED, RECESSED 1/4" IN FROM FRONT FACE AND TOP OF CURB.

MOUNTABLE CONCRETE CURB DETAIL
(N.T.S.)

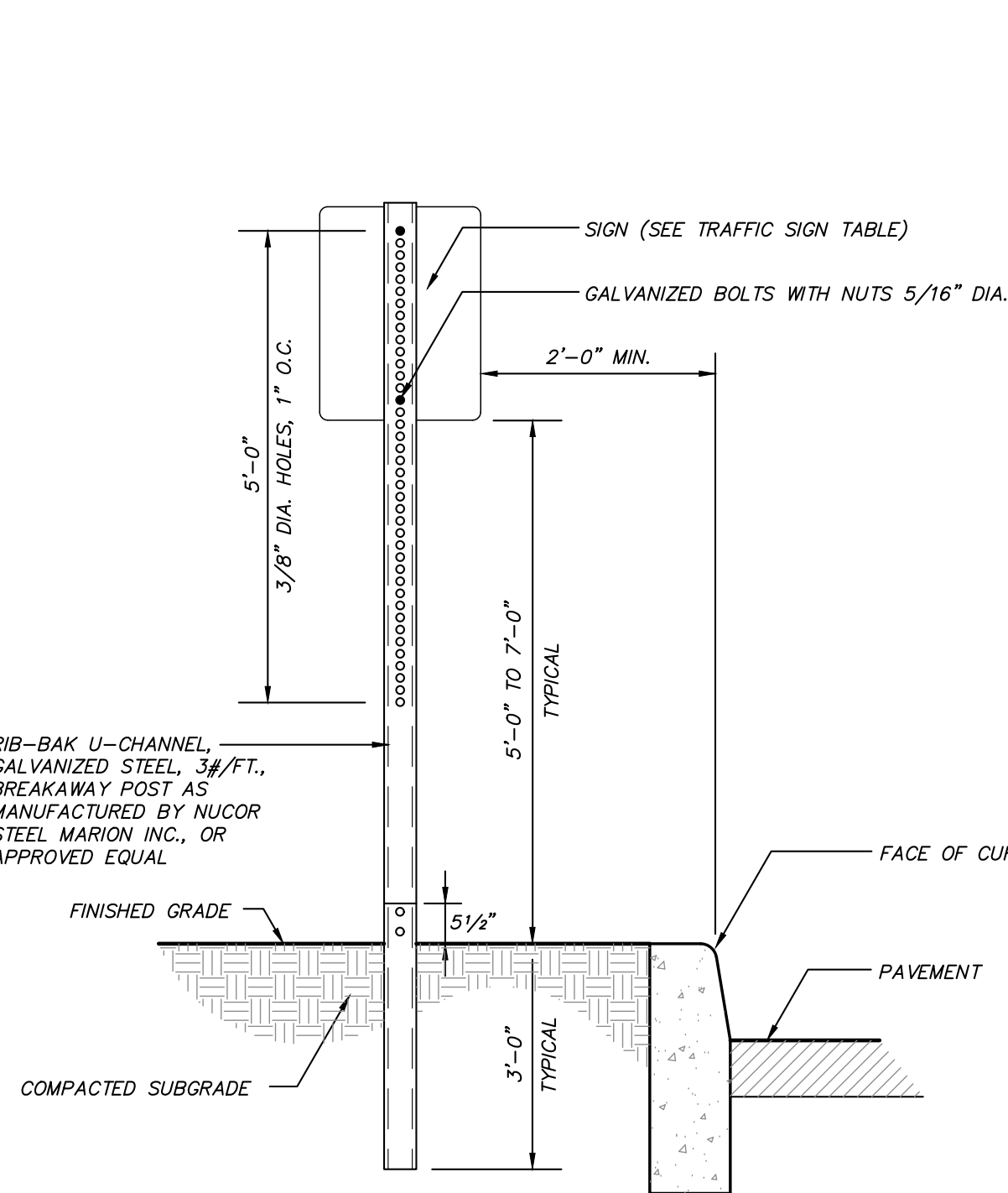


DUMPSTER ENCLOSURE DETAIL
(N.T.S.)



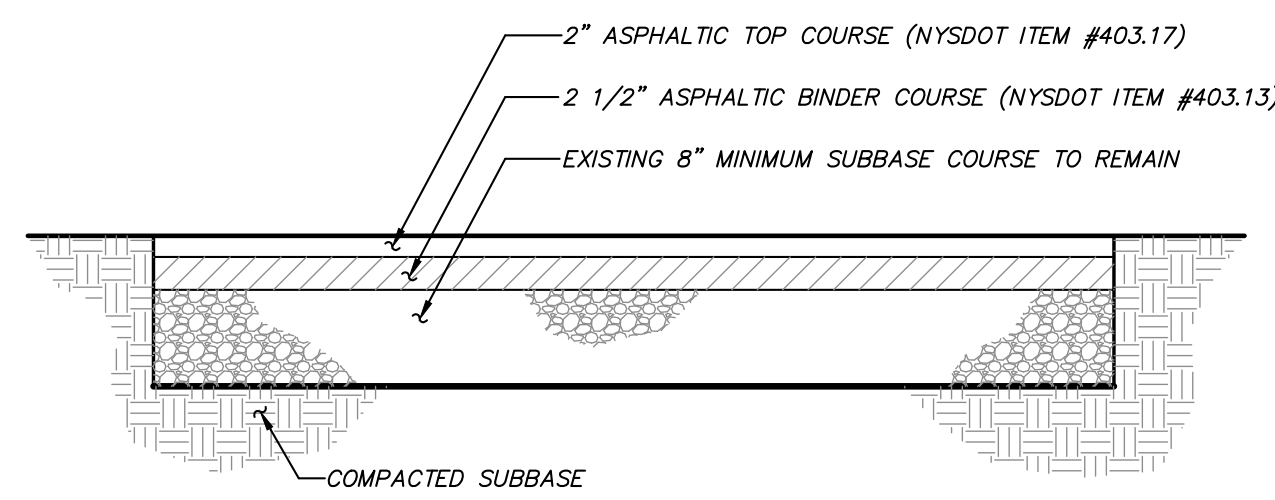
NOTES:
1. WHEN BOLLARDS ARE TO BE USED FOR PROTECTION OF COMBUSTIBLE OBJECTS, POSTS SHALL BE OFFSET A MINIMUM OF THREE (3) FEET FROM THE OBJECT BEING PROTECTED.
2. BOLLARDS (WHEN MORE THAN ONE IS REQUIRED) SHALL BE SPACED NOT MORE THAN FOUR (4) FEET ON CENTER WHEN PROTECTING COMBUSTIBLE OBJECTS.

STEEL BOLLARD DETAIL
(N.T.S.)

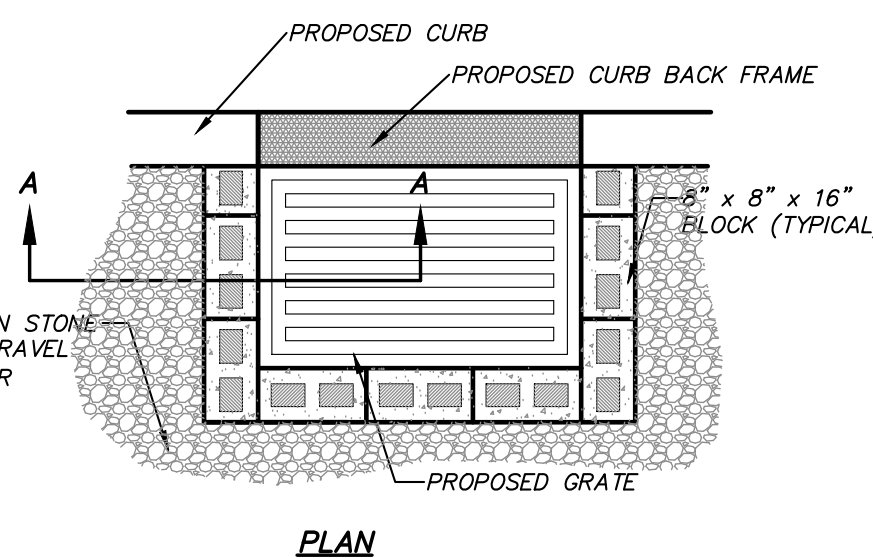


NOTE: FOR HANDICAP PARKING SIGNAGE, SIGNS SHALL BE INSTALLED AT A CLEAR HEIGHT OF BETWEEN 5'-0" AND 7'-0" ABOVE GRADE OF PARKING SPACE AND SUCH THAT SIGNS SHALL NOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE.

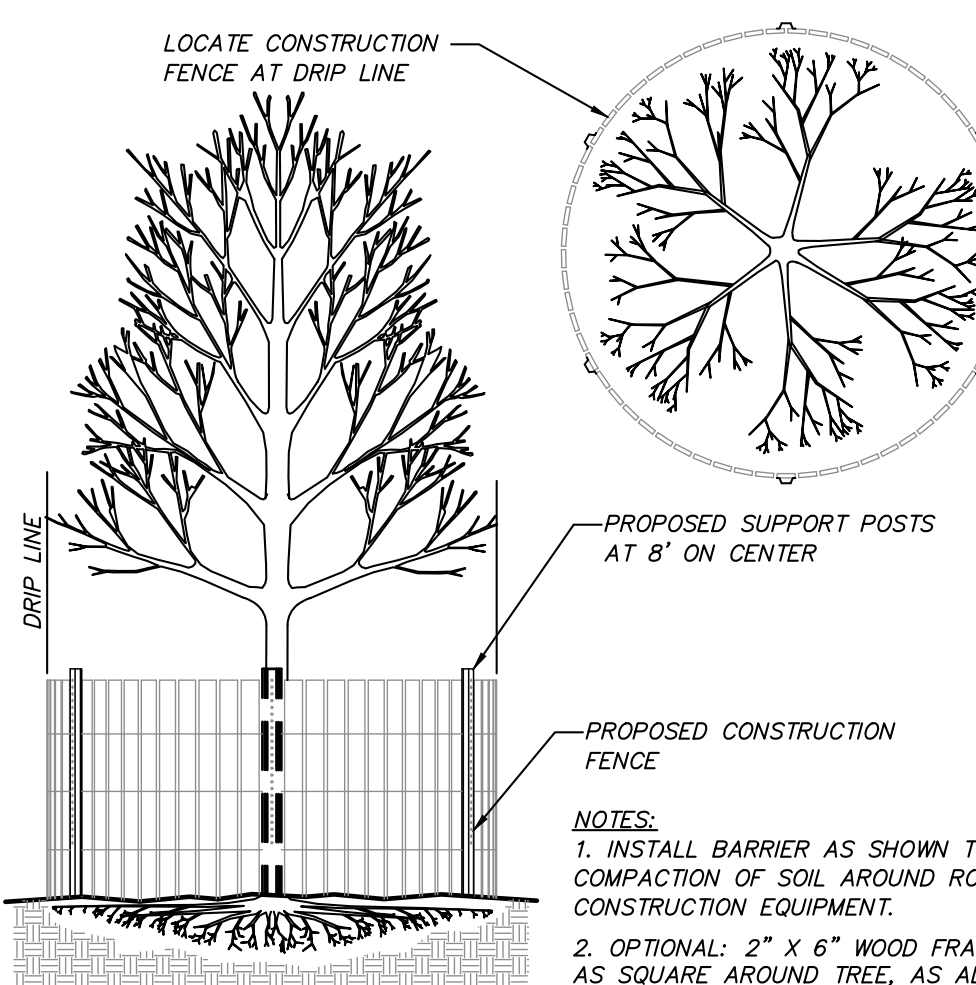
TRAFFIC SIGN DETAIL
(N.T.S.)



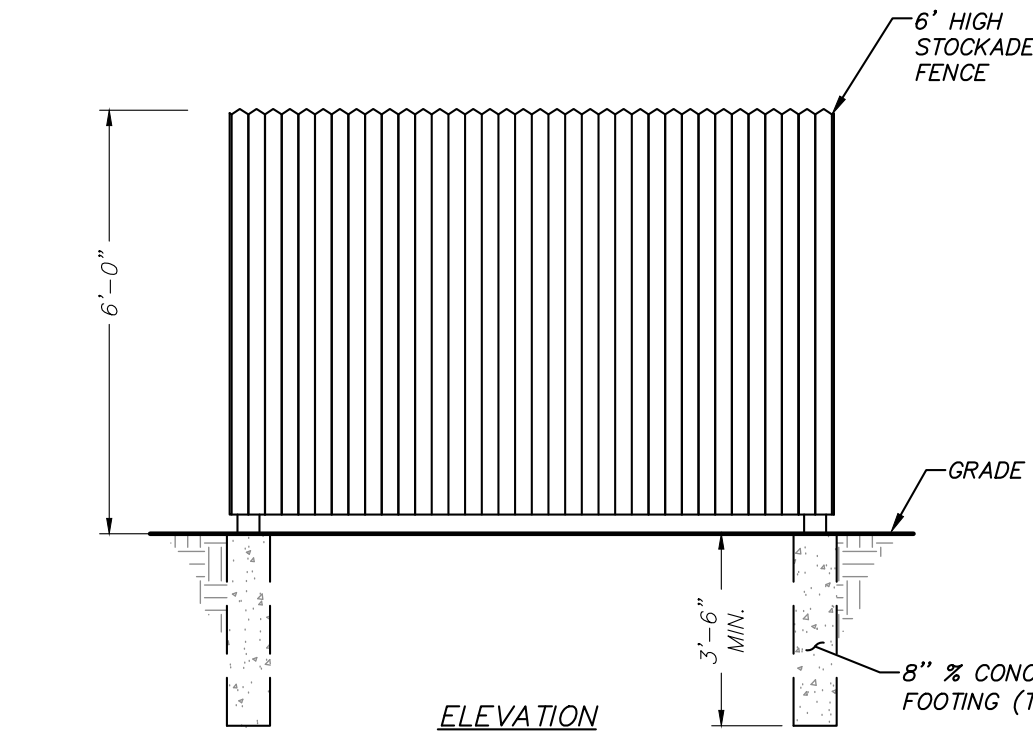
REPLACEMENT ASPHALT PAVEMENT DETAIL
(N.T.S.)



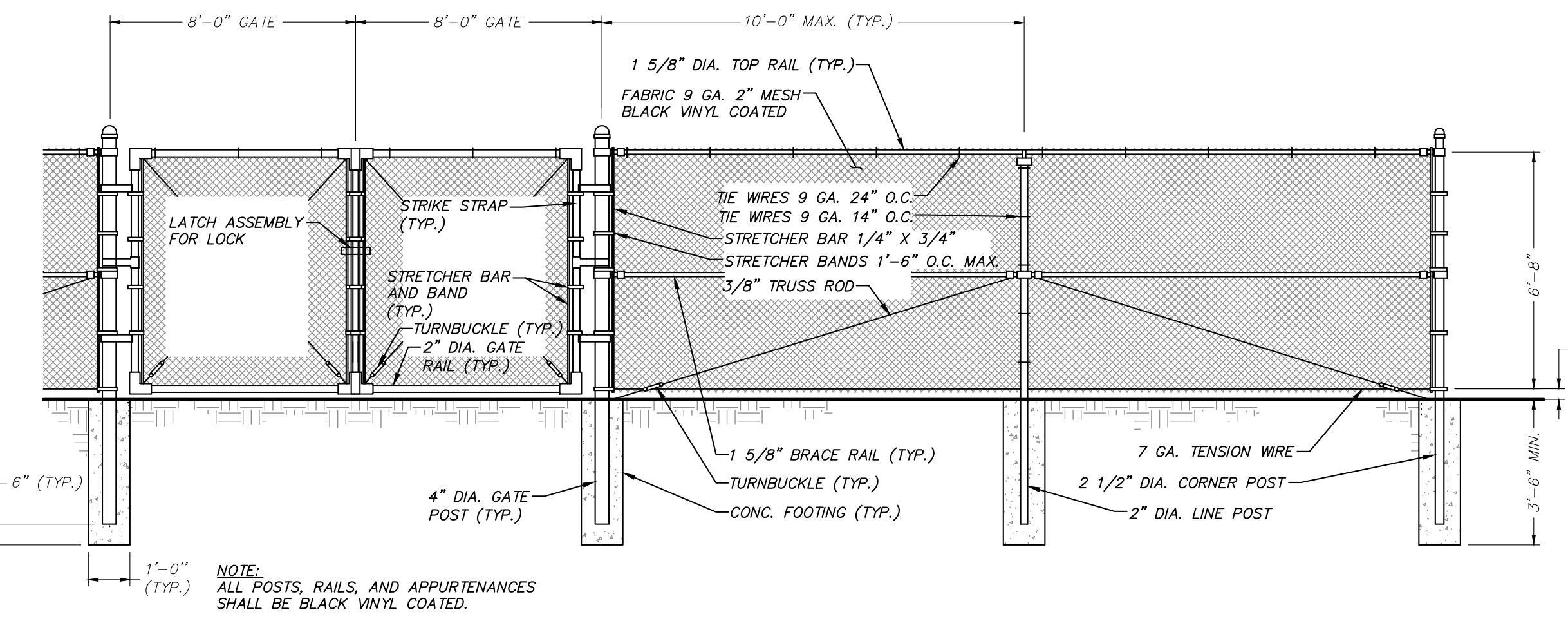
TREE PROTECTION DETAIL
(N.T.S.)



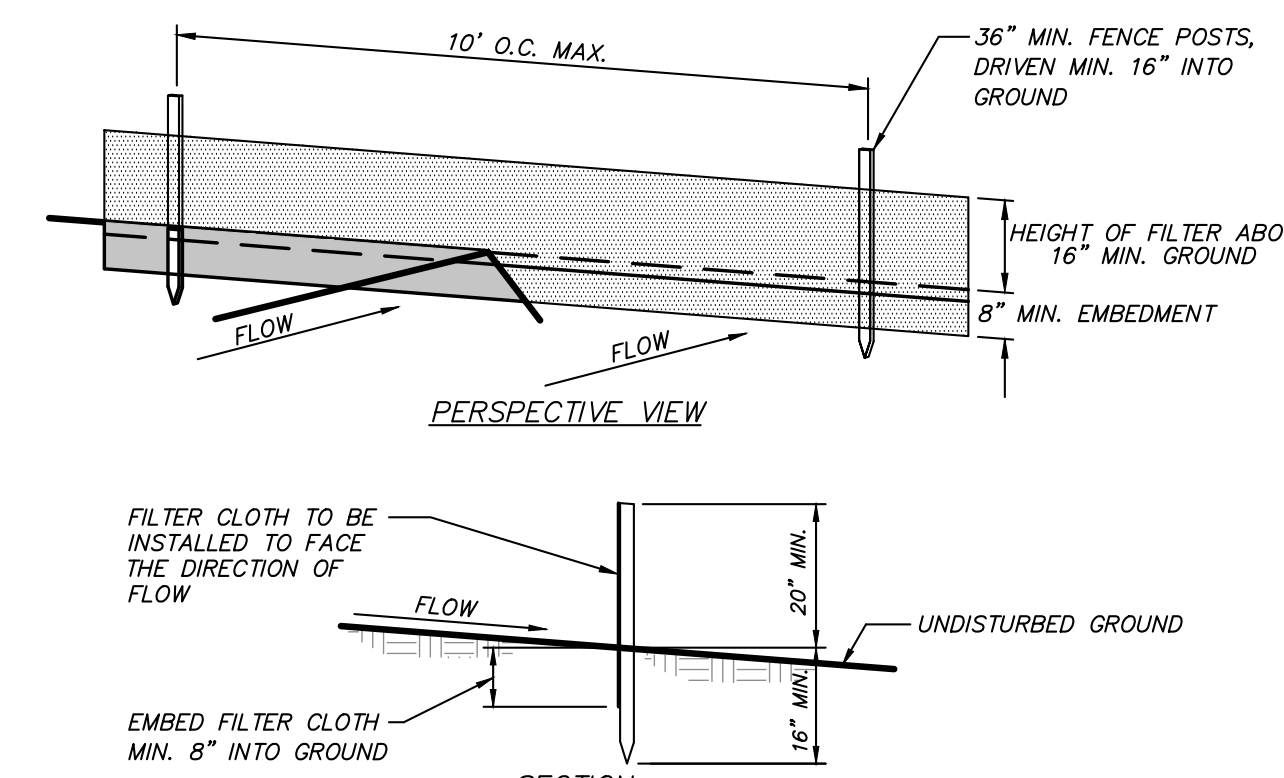
STOCKADE FENCE DETAIL
(N.T.S.)



CHAIN LINK FENCE DETAIL
(N.T.S.)

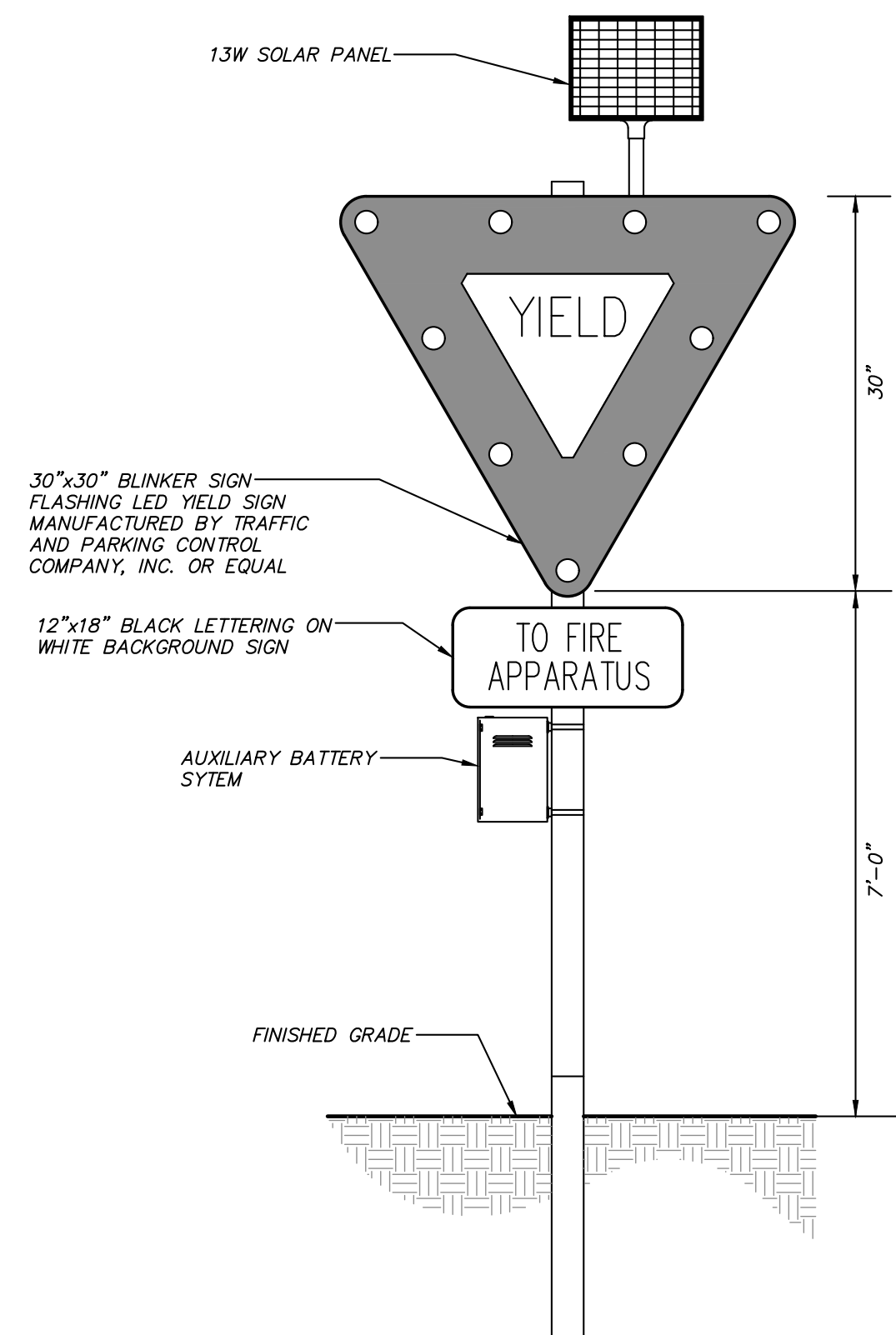


SILT FENCE DETAIL
(N.T.S.)

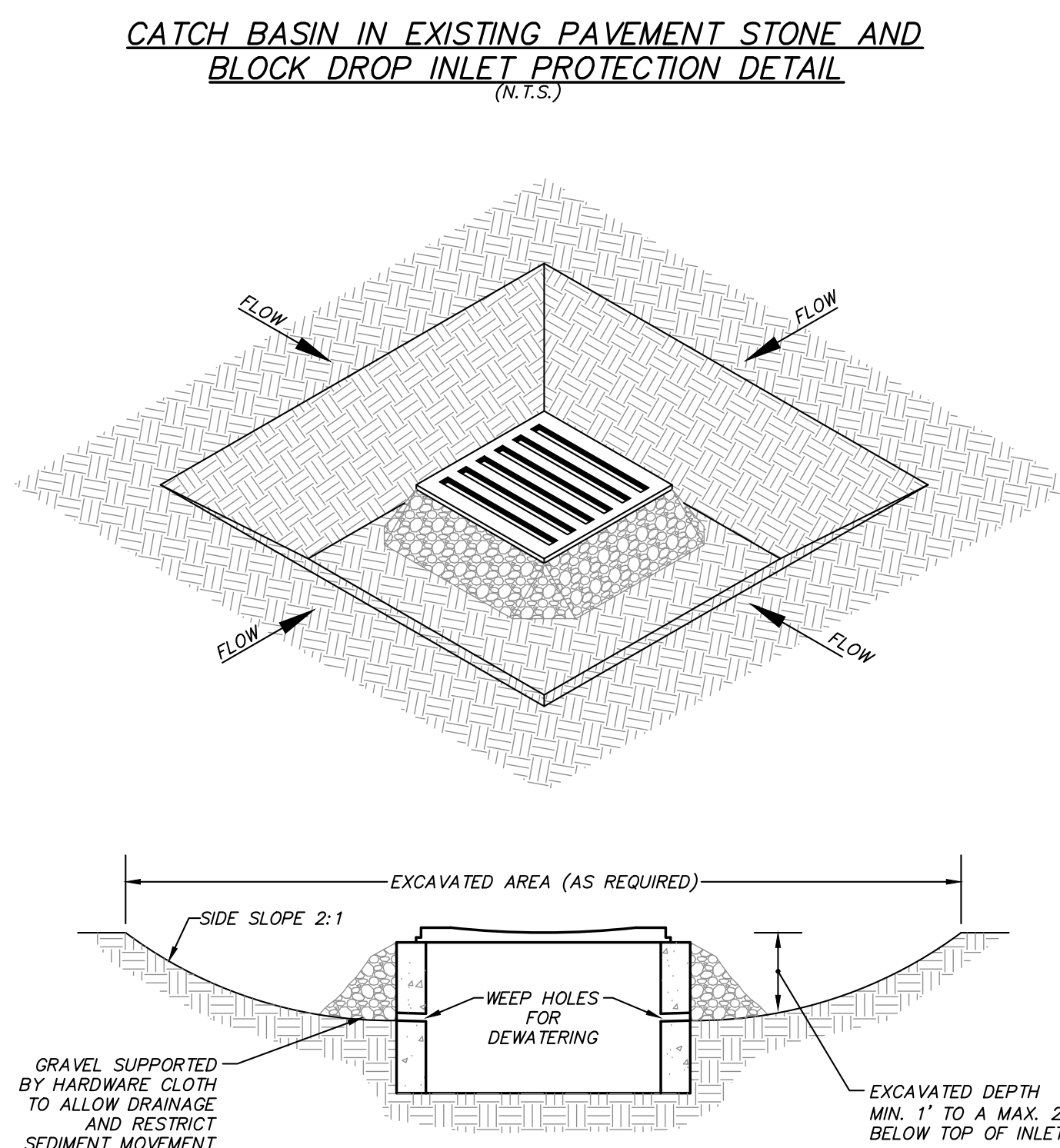


CONSTRUCTION NOTES FOR FABRICATED SILT FENCE:
1. FILTER CLOTH TO BE FASTENED SECURELY TO POSTS AT TOP AND MID SECTION.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

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

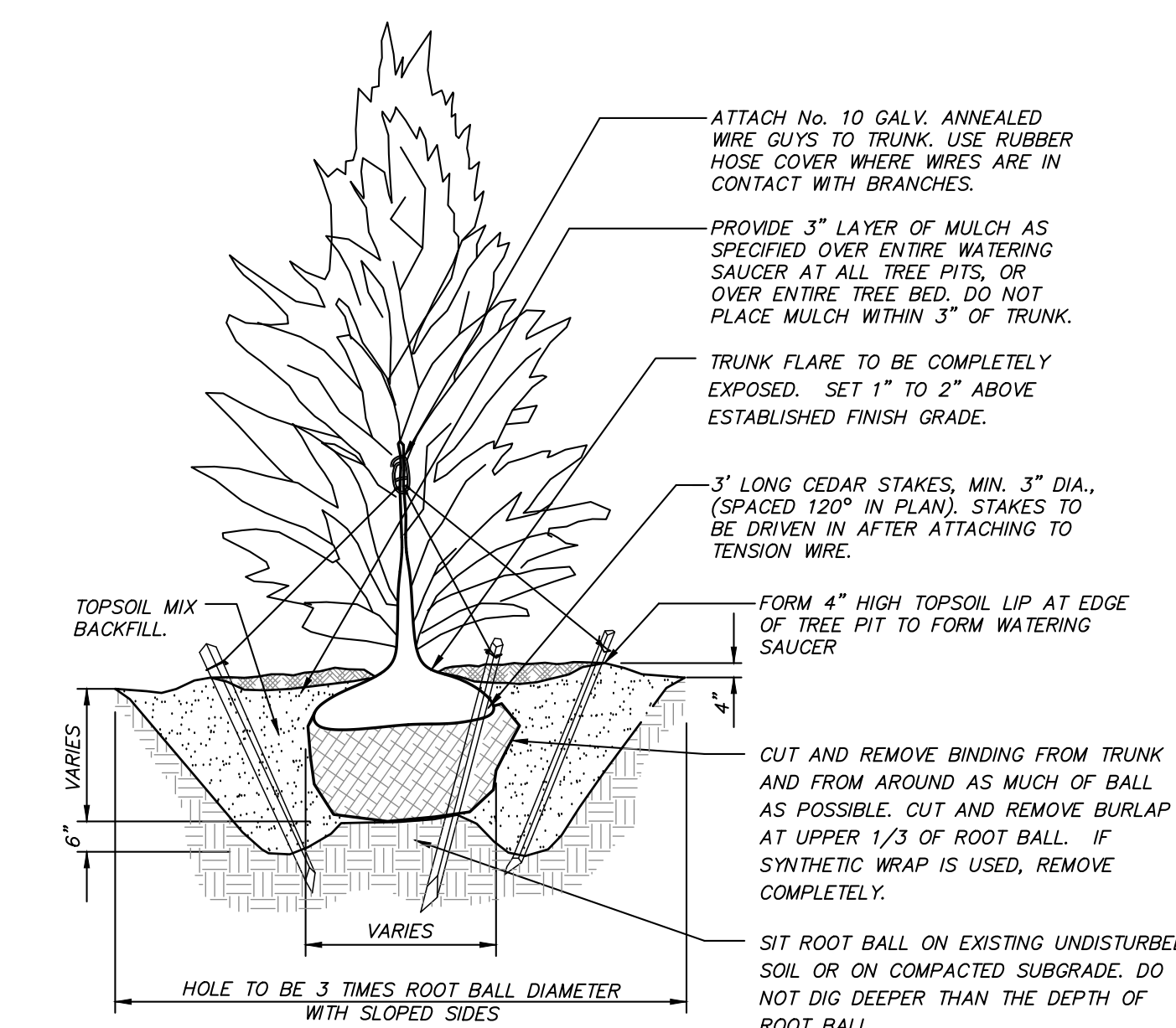


FLASHING YIELD SIGN DETAIL
(N.T.S.)



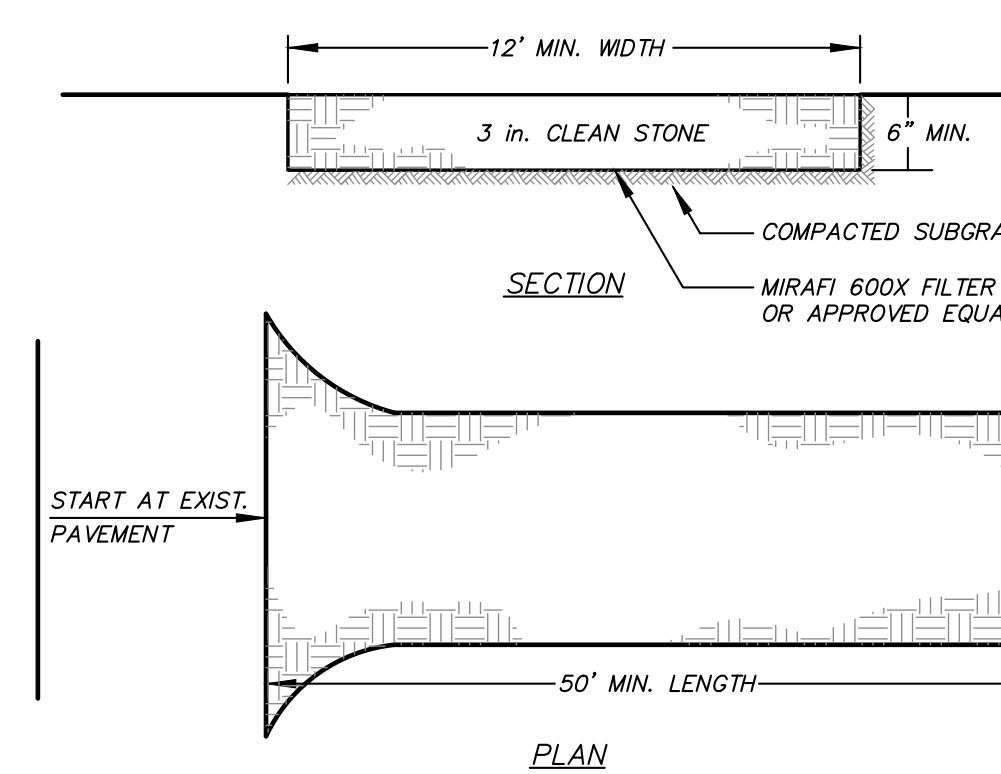
EXCAVATED DROP INLET PROTECTION DETAIL
(N.T.S.)

- 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



EVERGREEN TREE PLANTING DETAIL
(N.T.S.)

NOTE: PROVIDE STAKING AND GUYING FOR TREES PLANTED ON SLOPES GREATER THAN 3H:1V, IN EXPOSED, WINDY AREAS AND AS SPECIFIED BY LANDSCAPE ARCHITECT. GUY WIRES AND STAKES SHALL BE REMOVED WITHIN TWELVE MONTHS OF PLANTING.



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

- 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.

NO.	DATE	REVISION	BY
3	10-8-20	PLANNING BOARD SUBMISSION	ERA
2	8-7-20	PLANNING BOARD SUBMISSION	KMG
1	7-17-20	PLANNING BOARD SUBMISSION	ERA

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PROJECT: **CARMEL FIRE DEPARTMENT**
94 GLENEDA AVENUE, CARMEL, PUTNAM COUNTY, NEW YORK

DRAWING: **DETAILS**

PROJECT NUMBER: 19135.100
DATE: 5-20-20
SCALE: AS NOTED

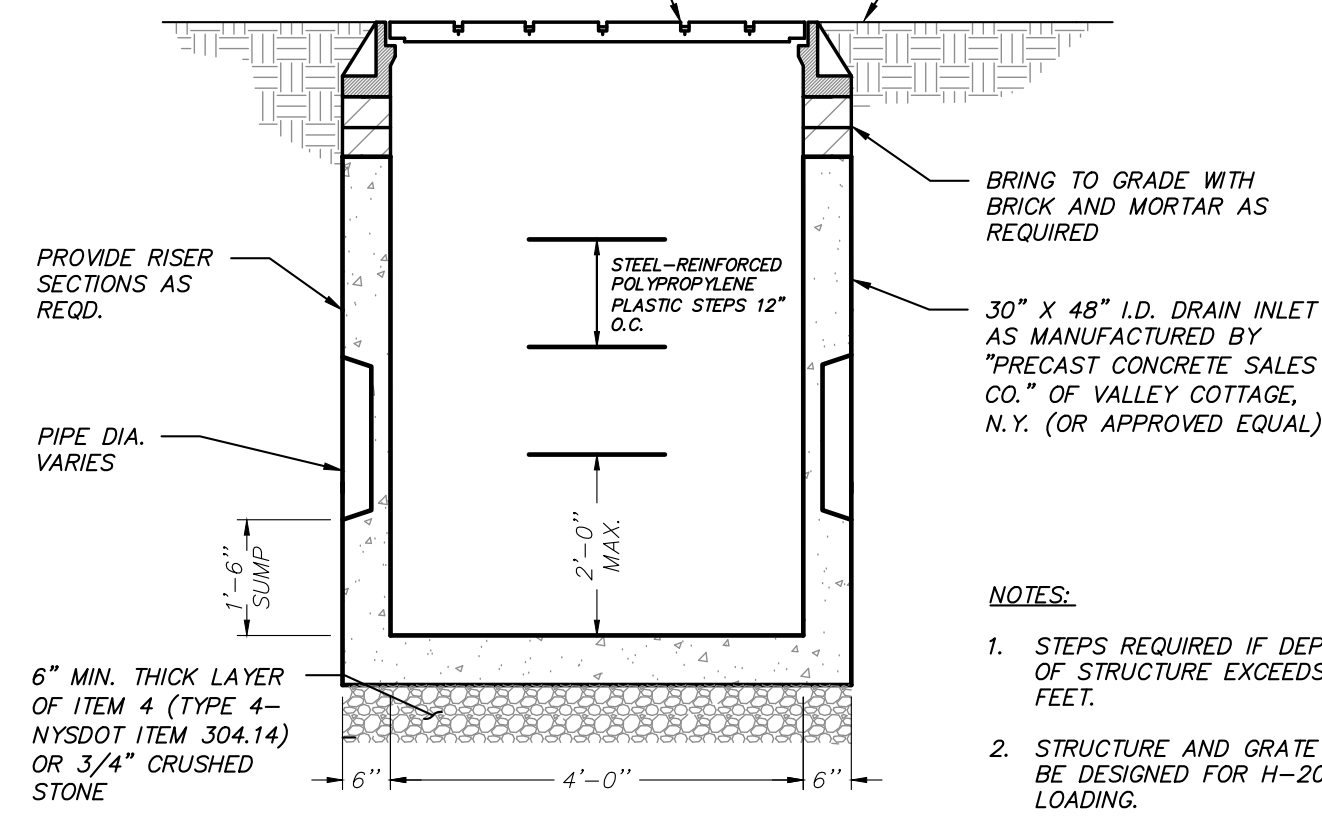
PROJECT MANAGER: J.M.W.
DRAWN BY: J.F.R.
CHECKED BY: K.M.G.

DRAWING NO. SHEET: **D-1** 9 10

SEWER SERVICE NOTES

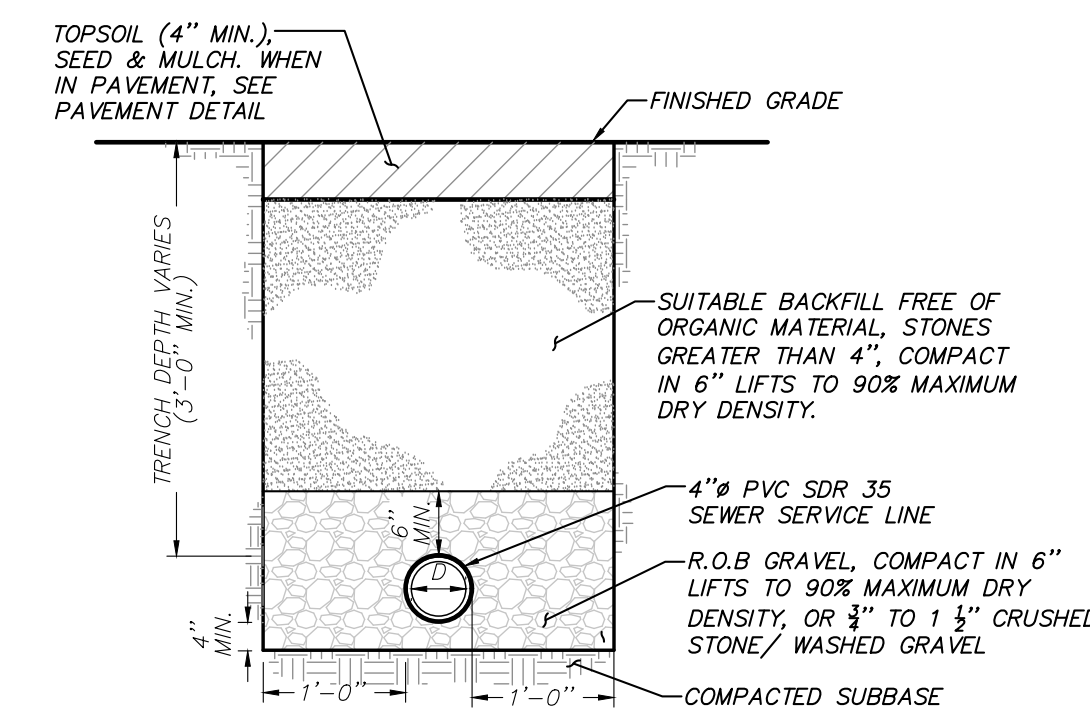
- All sewer services shown on these plans shall be polyvinyl chloride (PVC) SDR 35 with factory installed push on gaskets.
- Sanitary Sewers shall be laid at least 10 feet horizontally from any existing or proposed water main. The distance shall be measured edge to edge. In cases where it is not practical to maintain a 10 foot horizontal separation, the Design Engineer and the Town of Carmel may allow deviation with prior approval on a case-by-case basis, if supported by data from the Design Engineer prior to sewer line installation. The horizontal separation also applies to service connections.
- Sewers crossing water mains shall be laid to provide a minimum vertical separation of 18 inches between the outside of the sewer main and the water main. The crossing shall be arranged so that the sewer joints will be equidistant and as far as possible from the water main joints. Where a water main crosses under a sewer, adequate structural support shall be provided for the sewer to maintain line and grade. In cases where it is not practical to maintain a 18" vertical separation, the Design Engineer and the Town of Carmel may allow deviation with prior approval on a case-by-case basis, if supported by data from the Design Engineer prior to the sewer line installation. The vertical separation also applies to service connections.

HEAVY DUTY CAST IRON FRAME & GRATE MODEL 3408 (BIKE SAFE) AS MANUFACTURED BY CAMPBELL FOUNDRY (OR APPROVED EQUAL). PROVIDE ADA COMPLIANT GRATE WHERE LOCATED IN PEDESTRIAN AREAS/ADA ACCESSIBLE ROUTES

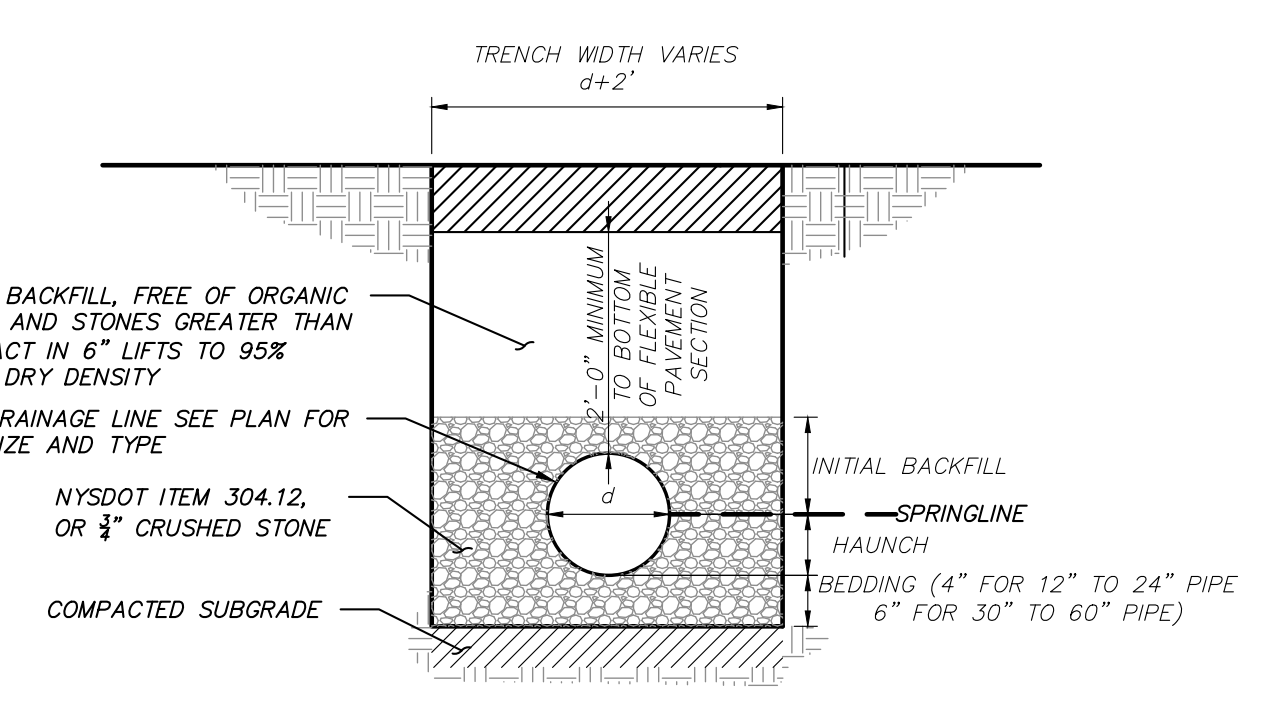


30" X 48" DRAIN INLET DETAIL
(N.T.S.)

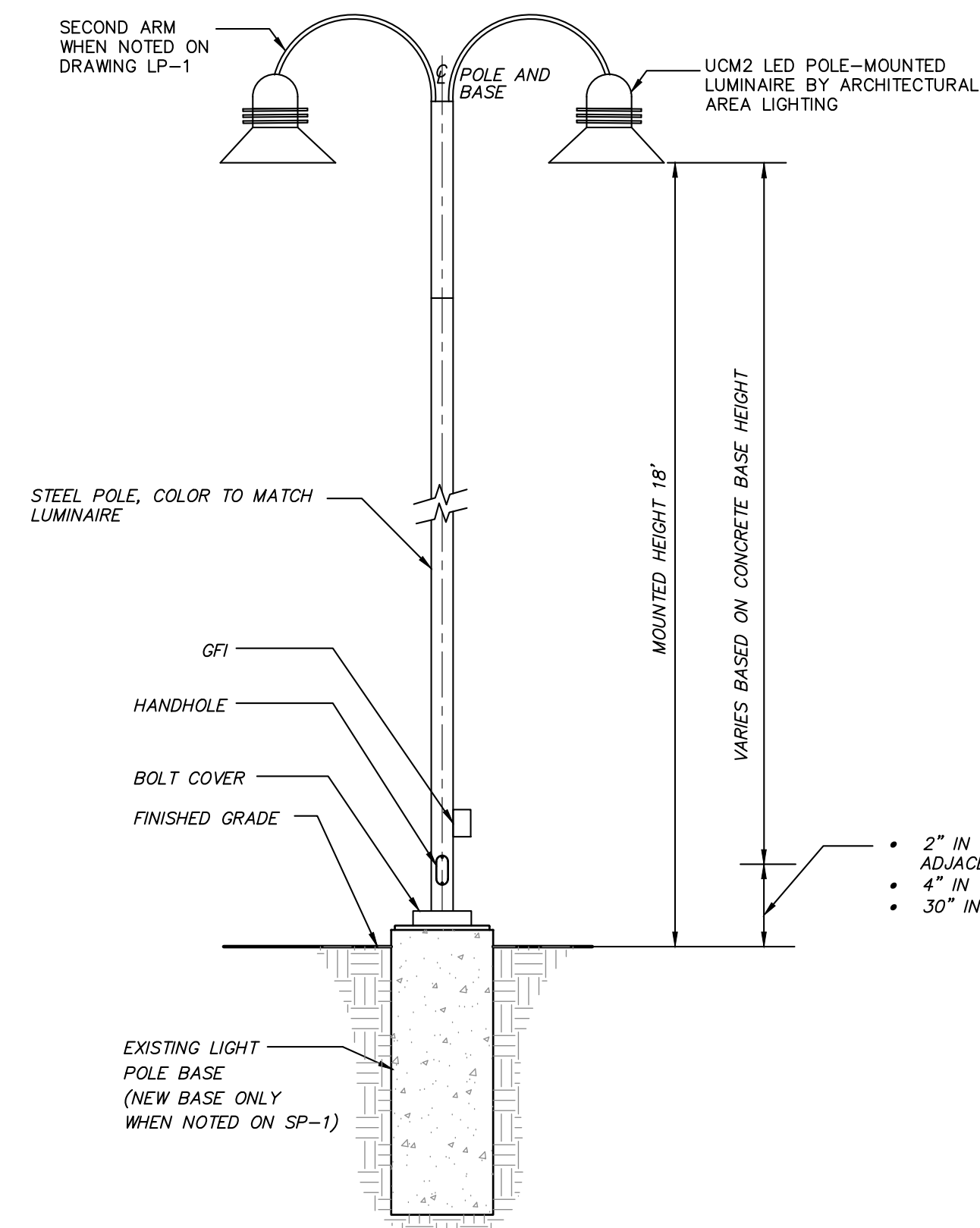
- NOTES:
- STEPS REQUIRED IF DEPTH OF STRUCTURE EXCEEDS 4 FEET.
 - STRUCTURE AND GRATE TO BE DESIGNED FOR H-20 LOADING.



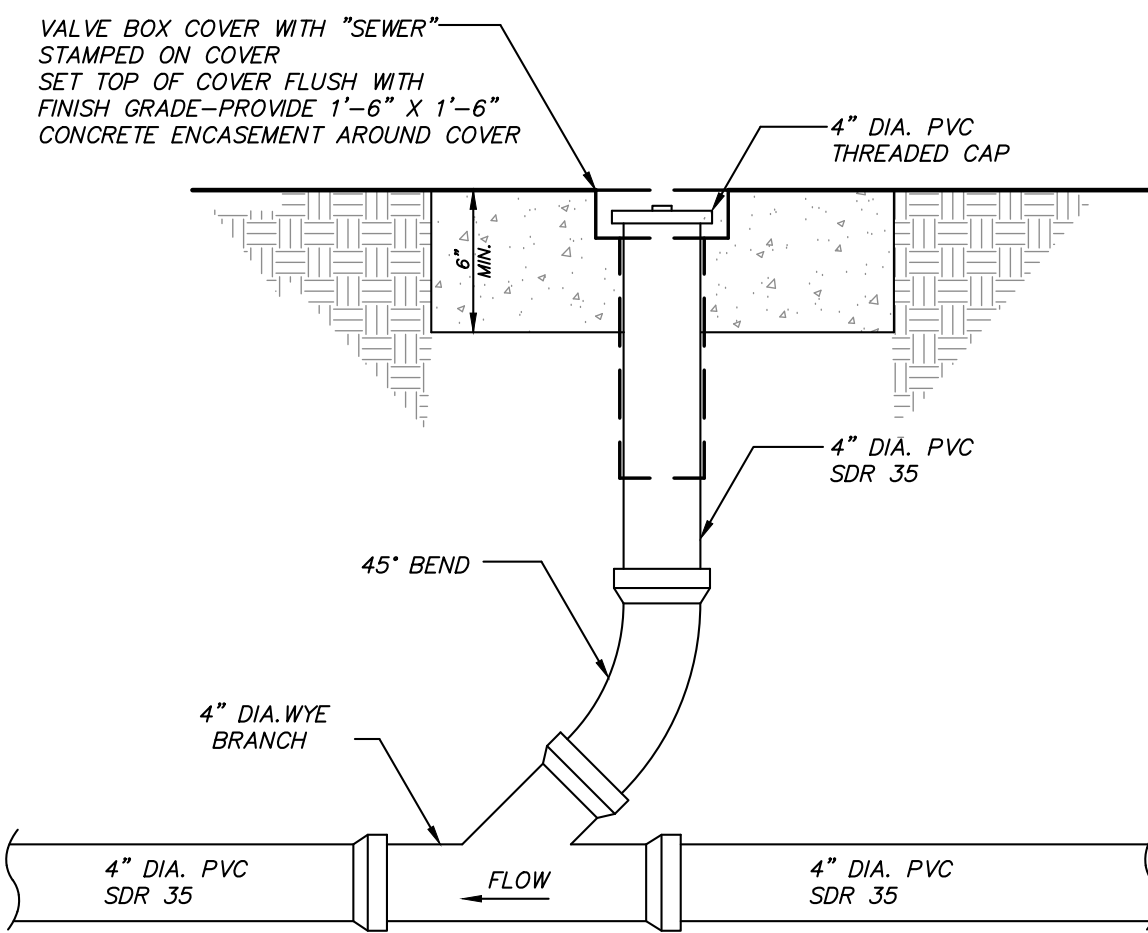
SEWER SERVICE LINE TRENCH DETAIL
(N.T.S.)



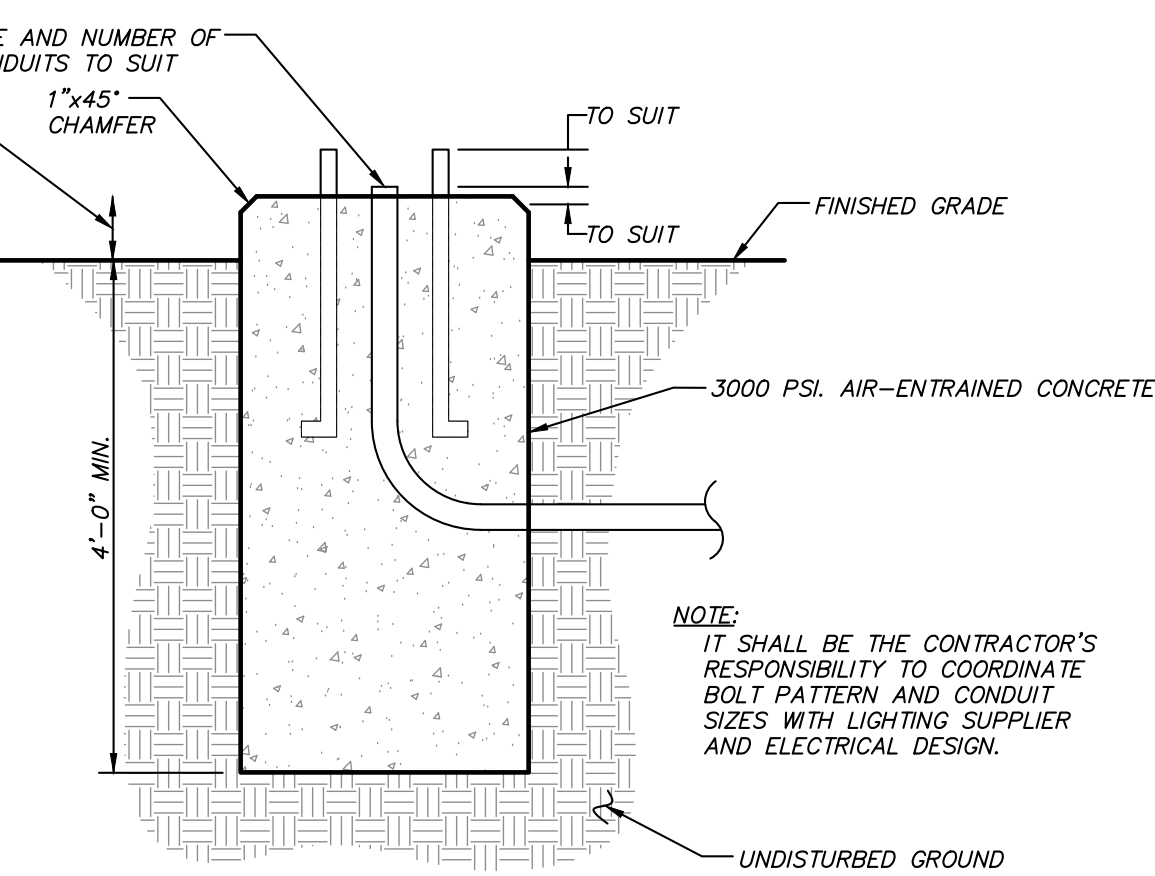
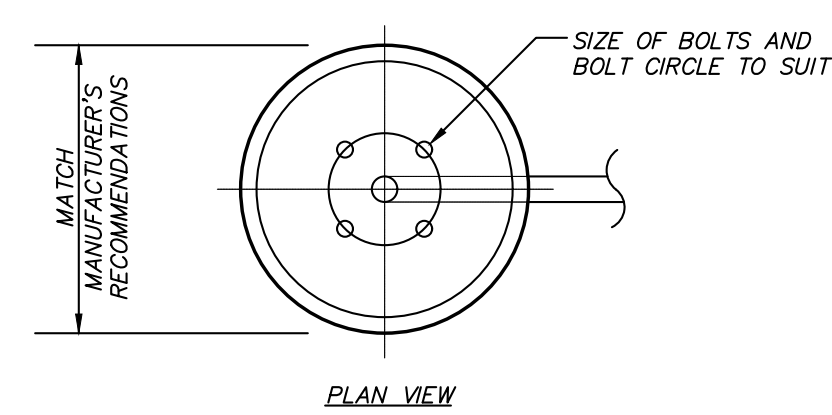
DRAINAGE LINE TRENCH DETAIL
(N.T.S.)



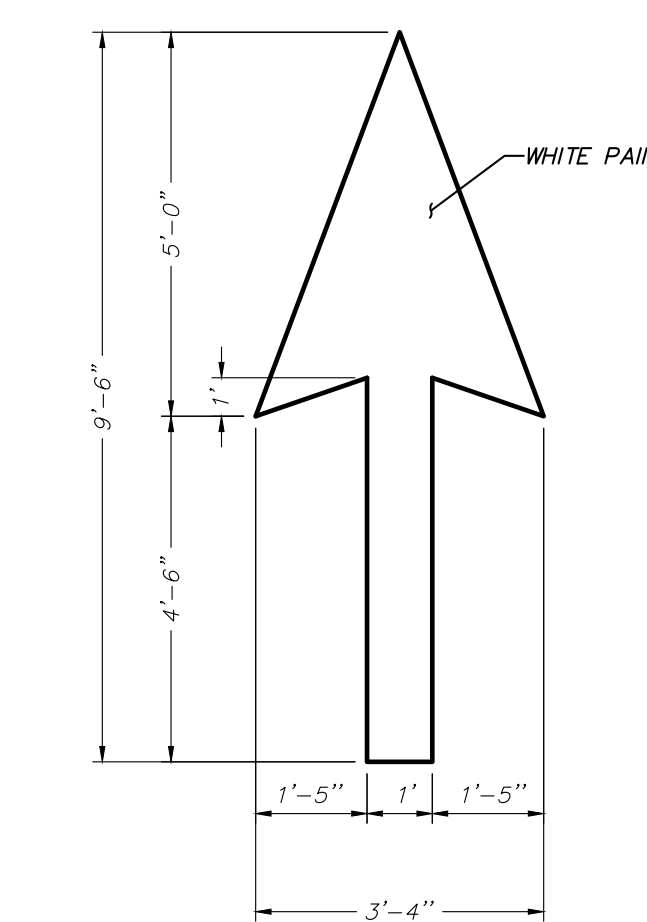
POLE-MOUNTED AREA LIGHT DETAIL
(N.T.S.)



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



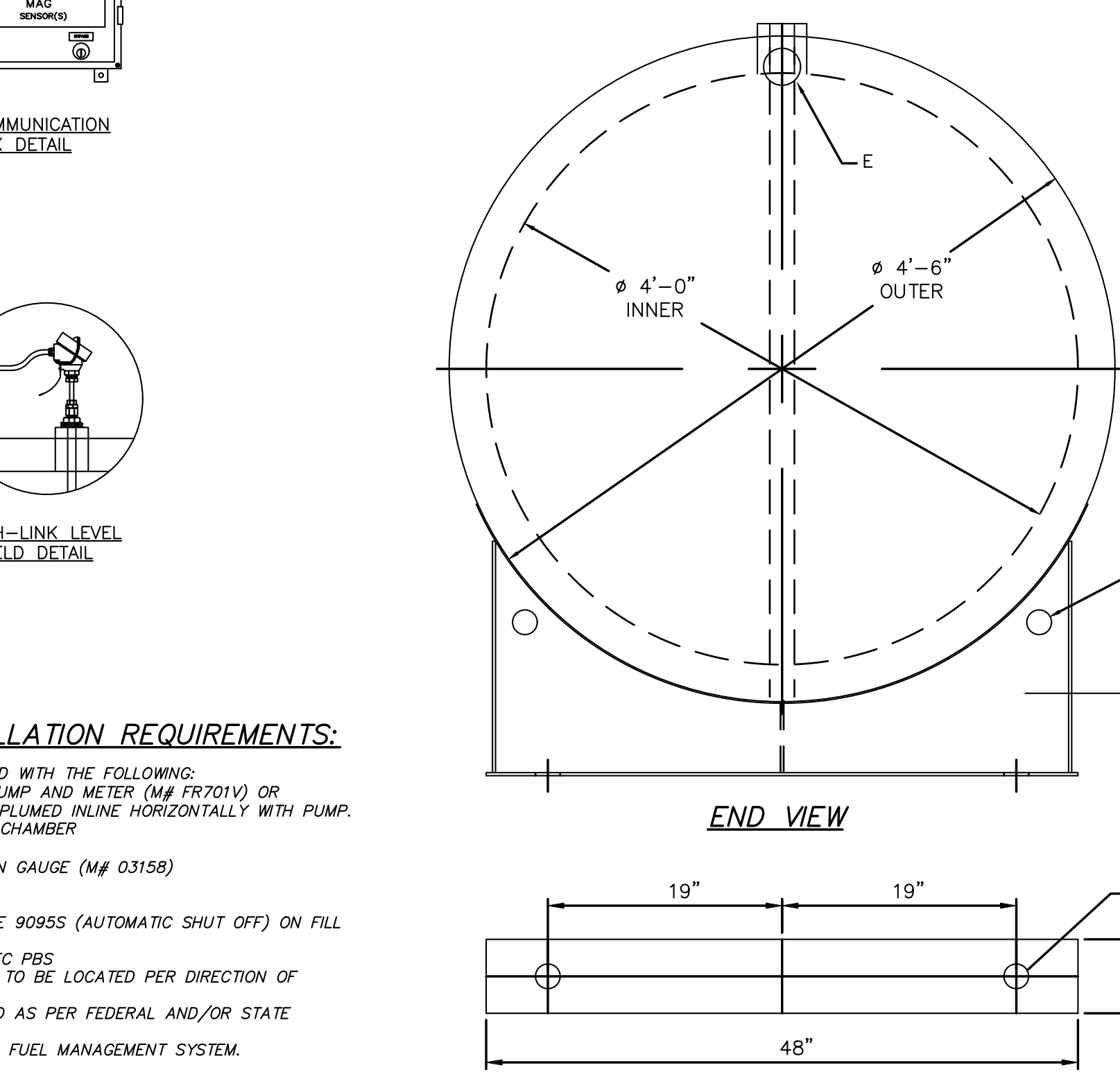
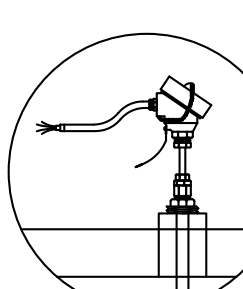
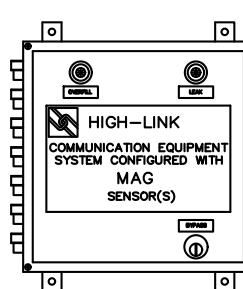
LIGHT POLE BASE DETAIL
(N.T.S.)



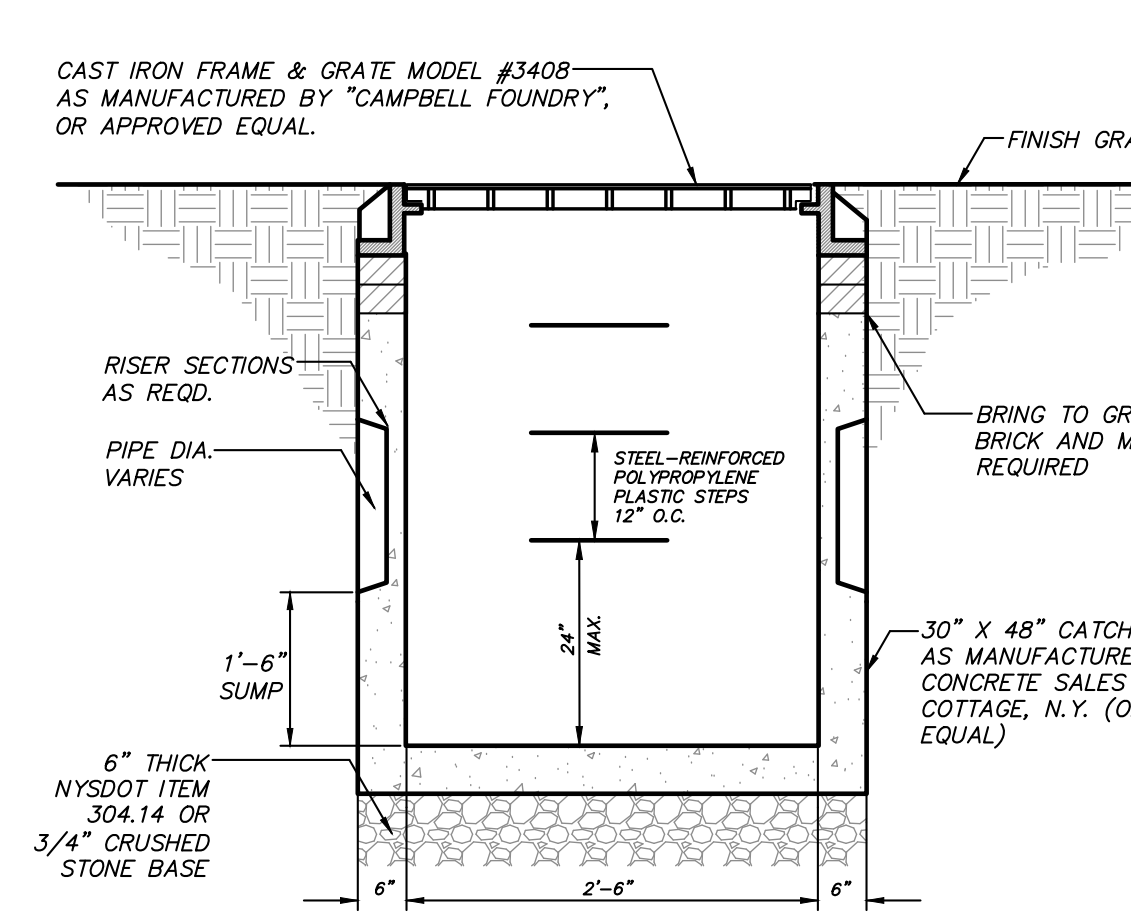
DIRECTIONAL ARROWS DETAIL
(N.T.S.)

FUEL TANK INSTALLATION REQUIREMENTS:

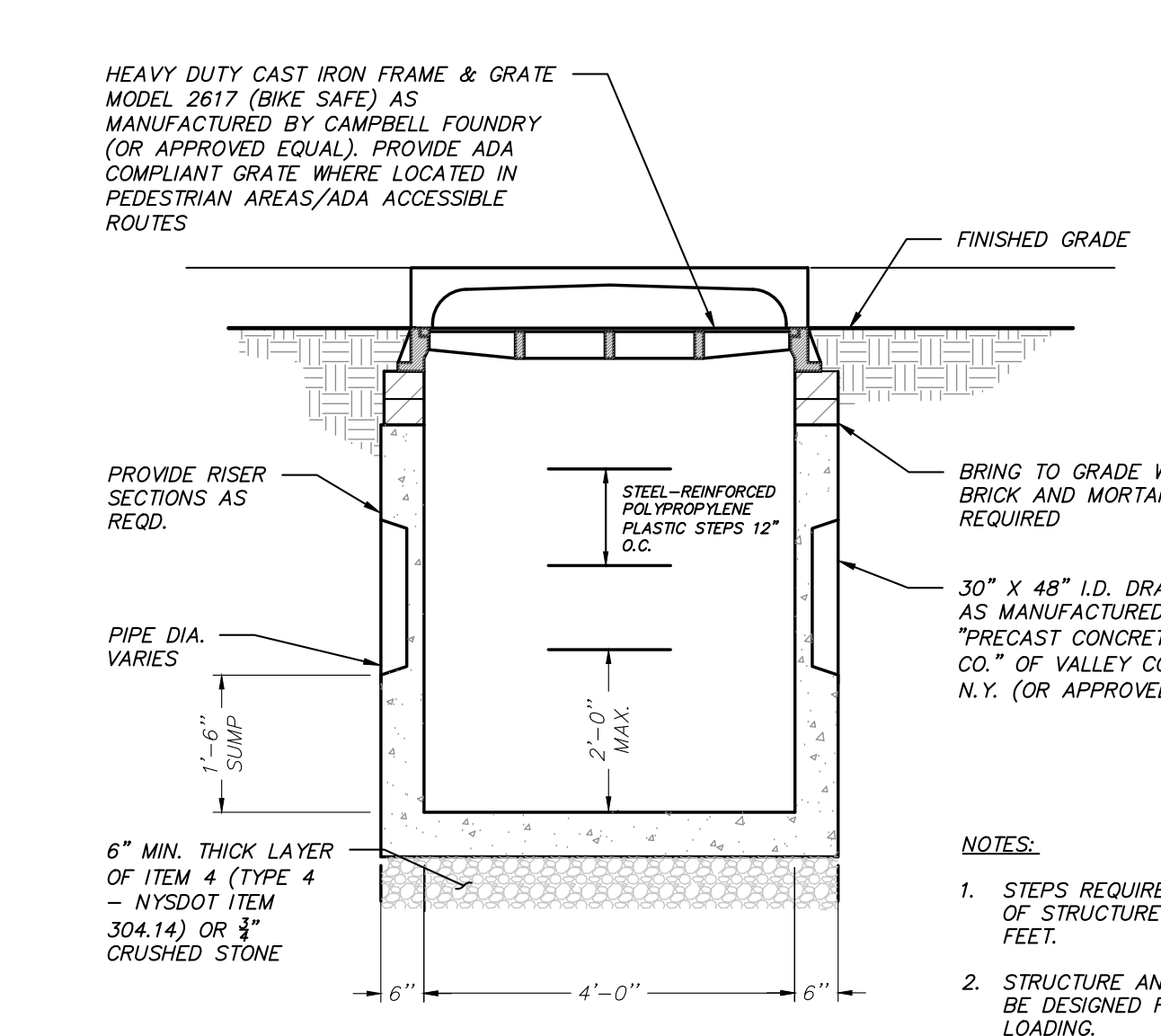
- FILLRITE FUEL DISPENSER PUMP AND METER (MP FR701V) OR EQUIVALENT METER TO BE PLUMED INLINE HORIZONTALLY WITH PUMP.
- REMOVE FILL CONTAINMENT CHAMBER
- TWO 4" EMERGENCY VENTS
- 46" SCULLY GOLDEN GALLON GAUGE (M# 03158)
- LEAK DETECTION GAUGE
- VENT PIPE WITH CAP
- OVERFILL PROTECTION VALVE 90855 (AUTOMATIC SHUT OFF) ON FILL PORT
- LABEL TANK AS PER NYSDEC PES
- ALL TANK APPURTENANCES TO BE LOCATED PER DIRECTION OF CARMEL FIRE DEPARTMENT
- TANK SHOULD BE GROUNDED AS PER FEDERAL AND/OR STATE REGULATIONS
- HIGH-LINK FUEL-SHIELD-MINI FUEL MANAGEMENT SYSTEM.



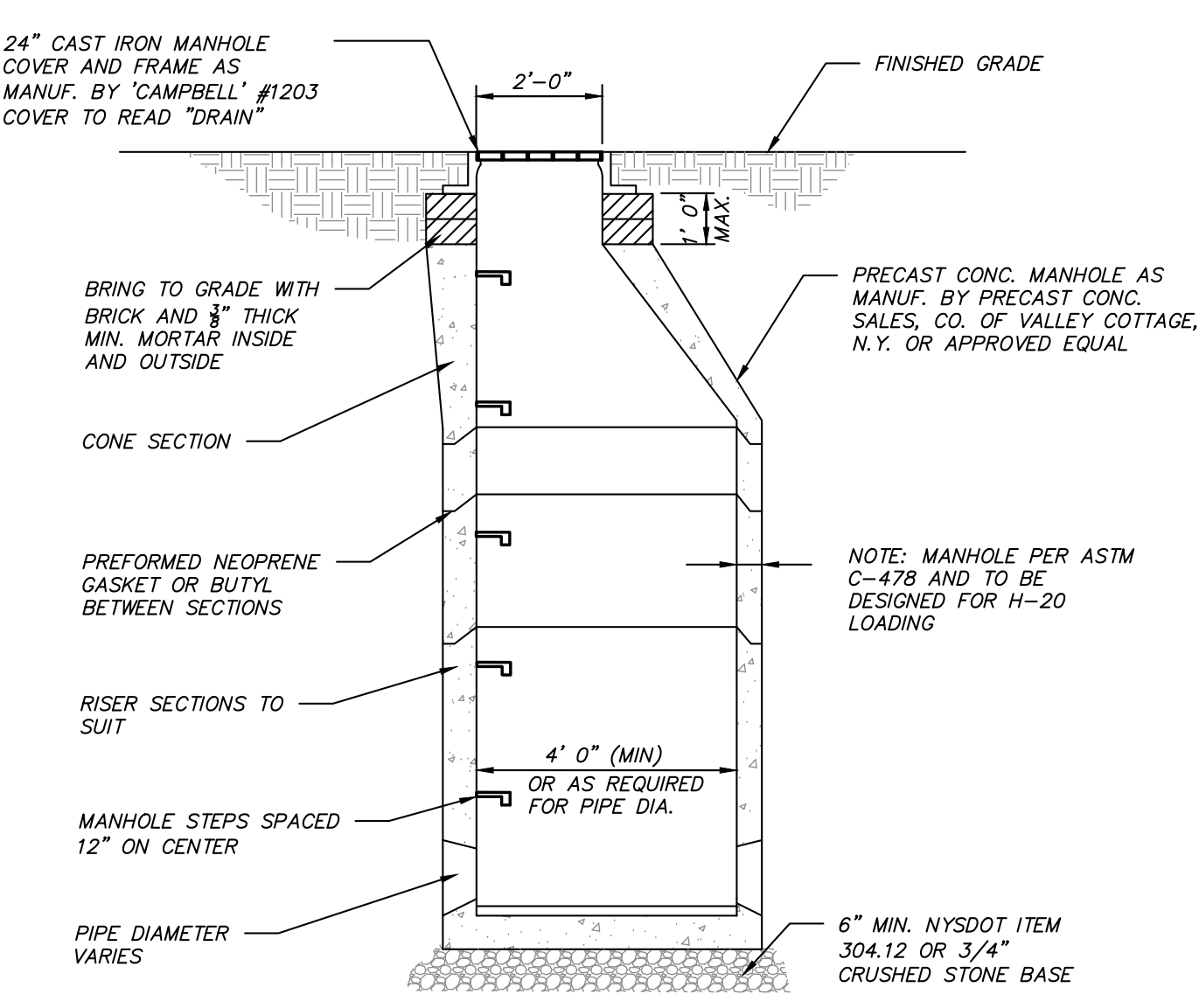
500 GAL 48\"/>



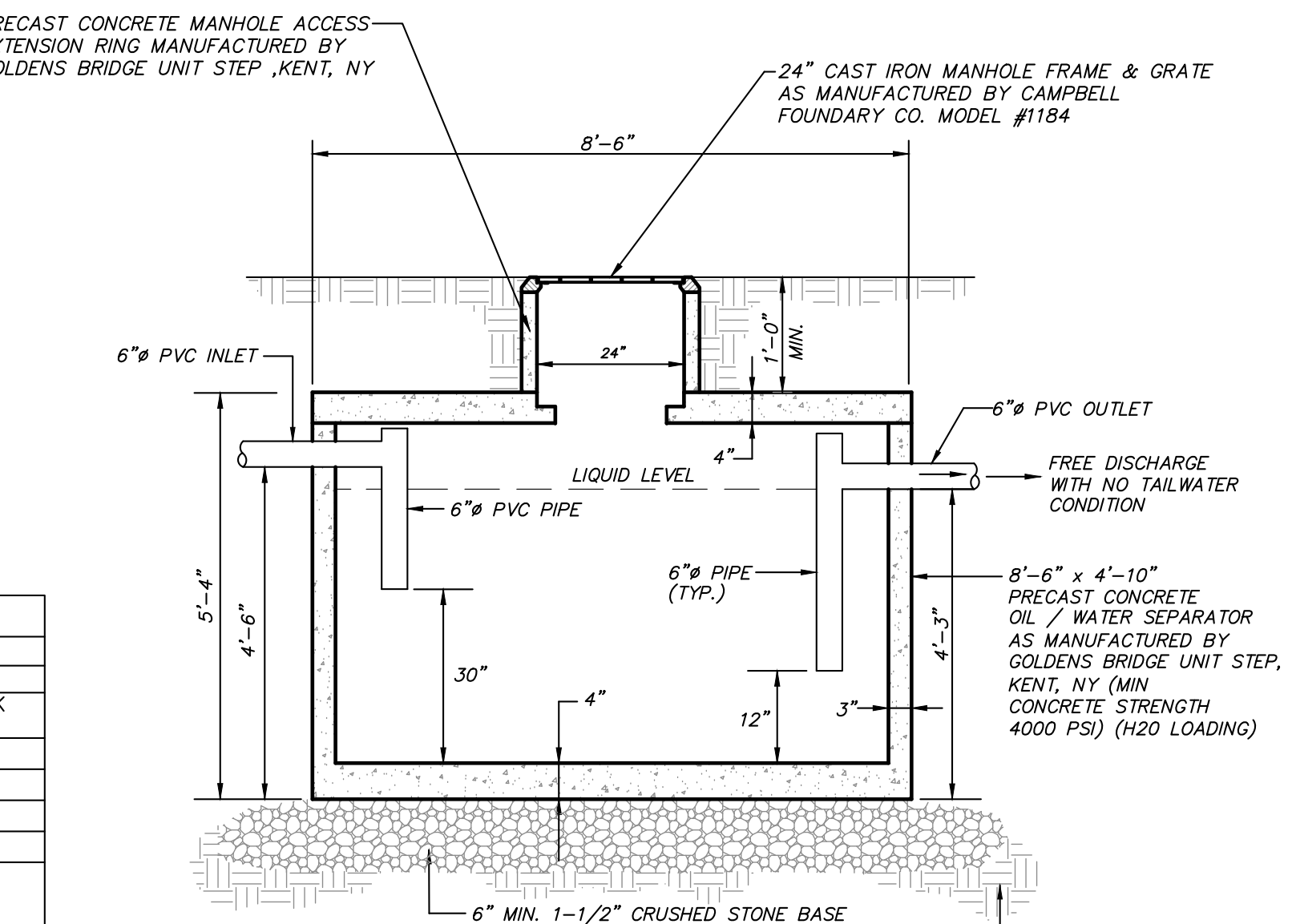
DRAIN INLET (DI) DETAIL
(N.T.S.)
(STRUCTURE AND GRATE TO BE DESIGNED FOR H-20 LOADING)



30\"/>



DRAINAGE MANHOLE (DMH) DETAIL
(N.T.S.)



1,000 GALLON OIL/WATER SEPARATOR DETAIL
(N.T.S.)

DESIGN DATA	
CAPACITY :	500 GALLONS
TYPE:	FIREGUARD® CYLINDRICAL
FIREGUARD® IS A TRADEMARK OF THE STEEL TANK INSTITUTE	
NO. REQ.	—
OPERATING PRESSURE —	ATMOSPHERIC
SPECIFIC GRAVITY =	1.0
TANK MATERIAL —	MILD CARBON STEEL
THICKNESS — INNER —	7 GAUGE
THICKNESS — OUTER —	7 GAUGE
MIN. GAUGE OR THICKNESS (PER U.L. 2085)	
CONSTRUCTION — INNER —	LAP WELD OUTSIDE ONLY
CONSTRUCTION — OUTER —	LAP WELD OUTSIDE ONLY
TANK TEST — PER UL 2085	
INT. FINISH —	NONE
EXT. FINISH —	SP-6 BLAST, FINISH PAINT WHITE
LABEL —	UL 2085 AND FIREGUARD® PER stl

LEGEND	
A	2" FEMALE FIREGUARD COUPLING
B	4" FEMALE FIREGUARD COUPLING
C	4" FEMALE FIREGUARD COUPLING
	— FOR PRIMARY EMERGENCY VENT USE
	— 4" FITTING THROUGH OUTER SHELL ONLY,
	INTERSTITIAL EMERGENCY VENT USE ONLY
E	4" FITTING THROUGH OUTER SHELL ONLY
	WITH CAST IRON PLUG— MFG USE ONLY
F	2" INTERSTITIAL MONITOR PIPE — MALE NPT END

NO.	DATE	REVISION	BY
3	10-8-20	PLANNING BOARD SUBMISSION	ERA
2	8-7-20	PLANNING BOARD SUBMISSION	KMG
1	7-17-20	PLANNING BOARD SUBMISSION	ERA

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

3 Garrett Place
Carmel, NY 12012
(845) 225-9690
(845) 225-9717 fax
www.insite-eng.com

PROJECT: **CARMEL FIRE DEPARTMENT**
94 GLENEDA AVENUE, CARMEL, PUTNAM COUNTY, NEW YORK

DRAWING: **DETAILS**

PROJECT NUMBER	19135.100	PROJECT MANAGER	J.M.W.	DRAWING NO.	SHEET
DATE	5-20-20	DRAWN BY	J.F.R.	D-2	10
SCALE	AS NOTED	CHECKED BY	K.M.G.		10

ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 2209 OF ARTICLE 145 OF THE EDUCATION LAW.



October 7, 2020

Chairman Craig Paeprer and Members of the Planning Board
Town of Carmel
60 McAlpin Ave
Mahopac, NY 10541

RE: Site Plan for The Mahoven LLC (Lubomir Kaneti)
737 South Lake Boulevard
TM #: 75.42-1-13

Dear Mr. Paeprer and Members of the Board,

The following is my response to the Building Inspector's memo dated September 4, 2020.

1. We have filed with NYS DOT for the driveway permit.
2. The bathhouse has been reduced in size and there is now a 4 FT. aisle from Rt. 6 N to Lake Mahopac.
3. The Zoning Chart has been revised.

The following is my response to the Town Planner's memo dated September 16, 2020.

1. The proposed extension of the dock will not extend more than 25 FT into the lake.
2. The portion of the dock to be removed also includes the supports.
3. We have applied for a Driveway Permit from the NYS DOT.

The following is my response to the Town Engineer's memo dated September 4, 2020

1. Once the proposed Site Plan layout is agreed to, all the details will be forthcoming.
2. The Zoning Chart already indicates that the lake front requirement in 15 FT. and 15 FT. is provided and a 35 FT. variance is required.

If you have any questions, please do not hesitate to contact me.

Very truly yours,

Joel Greenberg, AIA, NACRB

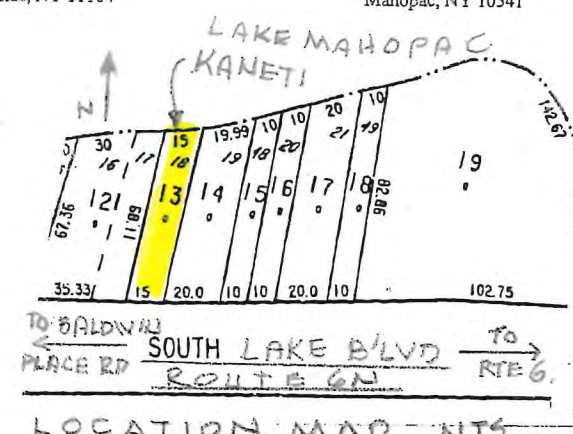


PROPERTIES WITHIN 500'

75.11-2-12 Daniel J Fitzpatrick 564 West 52nd St Apt 4F New York, NY 10019	75.11-2-12 Heliodoro R Santacolomo 12 Cherry Ln Putnam Valley, NY 10579	75.11-2-19 Sarah Kaplan 11 Dorset Dr Mahopac, NY 10541	75.42-1-11 Charles Melchner 722 South Lake Blvd Mahopac, NY 10541	75.42-1-12 Bert M Melchner 31 Highridge Mahopac, NY 10541	75.42-1-68 Real Holding Corp. 740 South Lake Blvd Mahopac, NY 10541
75.42-1-61 James R OHalloran 15 Colonial Ter Mahopac, NY 10541	75.11-2-7 Richard Doyle 15 Pine Cone Rd Mahopac, NY 10541	75.11-2-3 Johnna Sanzi 17 Pine Cone Rd Mahopac, NY 10541	75.42-1-68 Real Management Corp. of NY 610 Broadway Newburgh, NY 12550	75.42-1-13 Charles J Melchner 417 Seminary Hill Rd Carmel, NY 10512	75.42-1-14 Christopher Steckle 12 Bianca Ct Carmel, NY 10512
75.11-2-3 Peter Lesley PO BOX 1000 Baldwin Place, NY 10505	75.11-1-30 Stanley Gurewitsch 18 Clara Ln Mahopac, NY 10541	75.11-2-2 Ved Parkash 911 1/2 State St Santa Barbara, CA 93101	75.42-1-14 Peter Lesley PO BOX 1000 Baldwin Place, NY 10505	75.42-1-67 Vincent Cappelletti 740 South Lake Blvd Mahopac, NY 10541	75.42-1-15 Daniel Andron Apt 26E 27110 Grand Central Pkwy Floral Park, NY 110051226
75.11-2-1 Joseph McKay PO BOX 458 Mahopac Falls, NY 10542	75.11-2-17 Long & Tony Guo 3 Dorset Drive Mahopac, NY 10541	75.11-2-16 Robert Schiera 452 Baldwin Place Rd Mahopac, NY 10541	75.42-1-16 Daniel Andron Apt 26E 27110 Grand Central Pkwy Floral Park, NY 110051226	75.42-1-17 Daniel Andron Apt 26E 27110 Grand Central Pkwy Floral Park, NY 110051226	75.42-1-66 Christopher Sobieski 746 South Lake Blvd Mahopac, NY 10541
75.11-2-18 Harry Hess 7 Dorset Dr Mahopac, NY 10541	75.11-1-7 Manuel Inga 15 Trolley Rd Cortlandt Manor, NY 10567	75.11-1-31 Richard S Dudyshyn 703 Rt 6N Mahopac, NY 10541	75.42-1-18 RJK Contracting Corp. 25 Hill St Mahopac, NY 10541	75.42-1-18 RJK Contracting Corp. 751 South Lake Blvd Mahopac, NY 10541	75.42-1-18 Ronald J Topal Apt 11A/G New York, NY 10024
75.11-1-34 Cathleen B Fullan 20 Cypress Ln Yorktown Heights, NY 10598	75.11-2-15 Oscar Chavez 710 South Lake Blvd Mahopac, NY 10541	75.42-1-1 Mahopac Gardens Inc Attn: Karen Piccin, President 11 Canopus Rd Mahopac, NY 10541	75.42-1-19 RJK Contracting Corp. 25 Hill St Mahopac, NY 10541	75.42-1-19 RJK Contracting Corp. 751 South Lake Blvd Mahopac, NY 10541	75.42-1-19 Ronald Topal Apt 11A/G New York, NY 10024
75.42-1-2 Robert Beck c/o Annemarie Catania 21 Deer Run Mahopac, NY 10541	75.11-2-13 Ahmad Hussein 716 South Lake Blvd Mahopac, NY 10541	75.11-2-13 June Fredriksen 716 South Lake Blvd Mahopac, NY 10541	75.42-1-20 RJK Contracting Corp. 25 Hill St Mahopac, NY 10541	75.42-1-20 RJK Contracting Corp. 751 South Lake Blvd Mahopac, NY 10541	75.42-1-20 Ronald J Topal Apt 11A/G New York, NY 10024
75.42-1-3 Gerald D Weis 277 Cook Ave Yonkers, NY 10701	75.42-1-4 Robert Stevens 245 Lakeshore Dr Mahopac, NY 10541	75.42-1-5 Claudia Stevens 245 Lakeshore Dr Mahopac, NY 10541	75.42-1-21 Robert Knapp 60 Dahlia Dr Mahopac, NY 10541	75.42-1-22 Ronald J Topal Apt 11A/G New York, NY 10024	75.42-1-23 Ronald J Topal Apt 11A/G New York, NY 10024
75.11-2-4 Charles G Melchner 722 South Lake Blvd Mahopac, NY 10541	75.42-1-6 Robert Stevens 245 Lakeshore Dr Mahopac, NY 10541	75.42-1-7 725 Lake Property LLC 24 Lake Rd Mahopac, NY 10541	75.42-1-24 Ronald J Topal Apt 11A/G New York, NY 10024	75.42-1-25 Real Holding Corp. 740 South Lake Blvd Mahopac, NY 10541	75.42-1-25 Real Management Corp. of NY 610 Broadway Newburgh, NY 12550
75.42-1-7 Benedetto Savino PO BOX 490 Jefferson Valley, NY 10535	75.42-1-9 Claudia Stevens 245 Lakeshore Dr Mahopac, NY 10541	75.42-1-10 Jack Nathan PO BOX 500 Cooper Station, NY 10276	75.42-1-26 Vincent Cappelletti 740 South Lake Blvd Mahopac, NY 10541	75.42-1-27 Cesar Budiuck PO BOX 4686 Sunnyside, NY 11104	75.42-1-28 John Buttacavoli 13 Cook Dr Mahopac, NY 10541
75.11-2-6 Susan Hayes 9 Pine Cone Rd Mahopac, NY 10541	64.20-1-9 State Of New York 40 Gleneida Ave Carmel, NY 10512	75.11-2-14 Robert Schiera 452 Baldwin Place Rd Mahopac, NY 10541			
75.11-1-37 Kenneth Rose 60 East 96th St Unit 9B New York, NY 10128	75.11-1-35 Jane (aka Ethel) Benjamin 24 Mediterranean Ct Barnegat, NJ 08005	75.11-1-35 Millicker Family Trust PO BOX 130 Mahopac Falls, NY 10542			
75.11-1-36 William Boyar PO BOX 444 Mahopac Falls, NY 10542	75.11-1-33 Christopher Steckle 403 Baldwin Place Rd Mahopac, NY 10541	75.11-1-32 Delzio's Playa Para Los Ninos 11 Otha Dr Katonah, NY 10536			



AREA MAP NT6



ARCHITECTURAL VISIONS LLC

2 MUSCOOT ROAD NORTH MAHOPAC NY, 10541
 P: 845-628-8613 F: 845-628-2807
 JOEL.GREENBERG@ARCH-VISIONS.COM

PROJECT: PERGOLA + SHED FOR: LUBOMIR KANETI

PROJECT ADDRESS: 737 S. LAKE BLVD. MAHOPAC, NY 10541
 MAILING ADDRESS: 405 GRANT TERRACE MAHOPAC, NY 10541
 TAX MAP NO.: 75.42-1-12

AREA MAP, LOCATION MAP & PROP. WITHIN 500'

ISSUANCE: 6-8-2020
 7-21-2020
 9/3/2020

REGISTERED ARCHITECT
 JOEL GREENBERG
 STATE OF NEW YORK
 011056

SCALE - AS NOTED
 DRAWN BY/CHKD BY: JILIG
 PROJECT NO: 9-101



TWO MUSCOOT ROAD NORTH
MAHOPAC, NY 10541
P 845-628-6613
F 845-628-2807
www.arch-visions.com

PERGOLA & BATHHOUSE FOR MAHOVEN, LLC

LUBOMIR KANETI

737 SOUTH LAKE BLVD. MAHOPAC, NY 10541

TAX MAP NO. 75.42-1-13

PROJECT NO. 05-20-050

DATE: 10/7/2020

DWG S-102



A GREENBERG DESIGN GROUP

TWO MUSCOOT ROAD NORTH
MAHOPAC, NY 10541
P 845-628-6613
F 845-628-2807
www.arch-visions.com

PERGOLA & BATHHOUSE FOR MAHOVEN, LLC

LUBOMIR KANETI

737 SOUTH LAKE BLVD. MAHOPAC, NY 10541

TAX MAP NO. 75.42-1-13

PROJECT NO. 05-20-050

DATE: 10/7/2020

DWG S-103

**ALFRED A. CAPPELLI, JR.
ARCHITECT
1136 ROUTE 9
WAPPINGERS FALLS, NY 12590**

**Telephone: 845-632-6500
Fax: 845-632-6499
Email: acappe2102@aol.com**

Oct. 8, 2020

Town of Carmel Planning Board
60 McAlpin Ave.
Mahopac, NY

Re: Re-submittal to Planning Board
Zakon Project, Corner NYS Rt. 6 & Nicole Way
TM #65.6-1-22

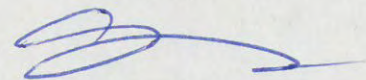
Dear Chairman Paepfer & Planning Board Members,

Attached please find five sets of revised site plans along with a revised narrative explaining the changes to the plans.

We would very much like to be placed on the next available Planning Board Agenda to continue discussion with the Board on this matter.

If there is anything else that is needed, please do not hesitate to let us know.

Thank you,



Alfred A. Cappelli, Jr.
Architect

AAC/dc
Enc.

REVISED
APPLICATION, PROJECT NARRATIVE & EAF
FOR COMMERCIAL DEVELOPMENT
FOR
JOE ZAKON, DBA
14 NICOLE WAY, LLC
CORNER OF NYS ROUTE 6 & NICOLE WAY
TOWN OF CARMEL
PUTNAM COUNTY
NEW YORK

PREPARED BY:

ALFRED CAPPELLI, JR.
ARCHITECT
1136 ROUTE 9
WAPPINGERS FALLS, NY

PHONE: 845-632-6500
EMAIL: acappe2102@aol.com

DECEMBER 18, 2018
REVISED JANUARY 23, 2020
REVISED AUGUST 31, 2020
REVISED OCTOBER 8, 2020

1. PROJECT OBJECTIVE:

It is the intent of the applicant to construct one building on property known as 14 Nicole Way for the storage of commercial vehicles.

2. APPLICANT:

The applicant is Joe Zakon, 14 Nicole Way, LLC, and owner of local business, Optimum Oil & Propane whose current business location is in the T/O Carmel. Mr. Zakon also resides in the T/O Carmel.

3. PROJECT LOCATION:

The project location is on the southeast corner of the intersection of NYS Rt. 6 and Nicole Way aka 14 Nicole Way, in the T/O Carmel, Putnam County, NY and is also identified as TM 65.01-1-22.

4. SITE DESCRIPTION:

The site is a corner vacant lot, approx. 201" x 207", approx. 1.417 acres. The lot is lightly wooded and gradually slopes up from Rt. 6 up to Nicole Way in the rear.

5. ZONING:

The zoning of the property is Commercial (C) and allows the use proposed.

6. PROJECT DESCRIPTION/APPLICANT'S PROPOSAL:

It is the applicant/owner's intent to construct only one building on the site for his use. The building would be a 63 x 90', 5,520 sf structure.

Within the building, the owner's own operation, Optimum Oil & Propane would occupy this space for the storage of four – five fuel oil delivery trucks.

When in storage at night, the trucks would be empty of fuel oil as required by code and insurance regulations.

Trucks will leave in the morning and go to the terminals to fill up before delivering fuel oil local to local residences and businesses.

A small section of the garage will be used for storage of parts and equipment incidental to the fuel oil business for service repairs.

There will be a small section "carved" out of the garage bay area for the owner's use.

There will be a service counter area for those who may stop by to pay bills in person or the occasional pick up of a small part for their heating system.

This is not intended to be a retail establishment.

There will be 4 – 5 employees driving the trucks, depending on the season, with the maximum number in the winter and less drivers in the summer, in addition to Mr. Zakon and one secretary. The drivers will be on the road all day, so in reality, there will be only two full time occupants.

There will be no oil trucks parked outside the garage, particularly in the evening.

Business hours will be 8:00 a.m. to 4:30 p.m., Monday through Friday and 8:00 a.m. to 12:00 noon on Saturday. There will be no business hours on Sunday or in the evenings.

The owner, however, reserves the right, depending on emergency situations, to occasionally have a fuel oil or service vehicle exit or enter the site beyond the hours noted above, but this should be on rare occasions.

Please note, that although fuel oil is a necessity in many cases 52 weeks per year, there will be fewer deliveries in the off season with the maximum of staff and vehicles in operation between October and April.

There will be no noise generated from idling trucks warming up in the morning as they are being parked in a heated environment, eliminating the need for long warm-ups.

There will also be no on-site repair of trucks either outside or inside the building. Mr. Zakon has his vehicles serviced elsewhere.

There will also be a small office component for possible office rental, and this has been calculated for the proper parking quantity.

7. BUILDING DESIGN:

The nature of the building's uses suggests a durable material to take the abuse of day to day activities, hence masonry in the form of poured concrete and concrete block will be utilized for part of the exterior construction material for the buildings.

The roof will be a gable roof utilizing asphalt shingles as the finished roofing material.

The building has been situated and designed to have all activities, the garage doors, etc. facing Rt. 6.

Also, the fact that the building, by virtue of the topography, will be built into the hillside and create a much lower profile and be less imposing to the residential neighborhood.

The building's material and Architecture has been designed to complement the surrounding residential nature by way of shape, features and materials.

8. SITE UTILITIES:

Potable water for the building's use will be by way of an on-site drilled well.

The sanitary system will be composed of an on-site sewage disposal system to handle the minimal water use of this type of building and the nature of its use.

Both of the above will require Putnam Count Health Dept. approval.

Stormwater will be collected in catch basins discharging into an on-site infiltration system which will collect and dissipate the stormwater that is created by the newly created impervious areas.

Individual underground electric service will service the building.

9. OTHER SITE IMPROVEMENTS AND SITE AMENITIES:

Other site improvements and amenities will include, but not necessarily be limited to:

- Asphalt paved driveway and parking area
- Concrete and asphalt curbing
- Concrete sidewalks
- Landscaping
- Site lighting
- Fencing to protect, secure and visually obscure an outside storage area for Optimum Oil & Propane's storage for propane canisters and small tanks for residential use. This area will be inaccessible to the public.

Short Environmental Assessment Form

Part 1 - Project Information

Instructions for Completing

Part 1 – Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 – Project and Sponsor Information				
Name of Action or Project: PROPOSED NEW STORAGE BUILDING FOR JOE ZAKON				
Project Location (describe, and attach a location map): 14 NICOLE WAY, CORNER WITH NYS ROUTE 6				
Brief Description of Proposed Action: CONSTRUCTION OF A NEW 5,520 SF BUILDING TO BE USED FOR STORAGE OF OWNERS FUEL OIL DELIVERY TRUCKS				
Name of Applicant or Sponsor: ALFRED CAPPELLI, JR. ARCHITECT		Telephone: 845 632-6500 E-Mail: ACAPPE2102@AOL.COM		
Address: 1136 ROUTE 9				
City/PO: WAPPINGERS FALLS		State: NY	Zip Code: 12590	
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.			NO <input type="checkbox"/>	YES <input type="checkbox"/>
2. Does the proposed action require a permit, approval or funding from any other government Agency? If Yes, list agency(s) name and permit or approval: PLANNING BOARD FOR SITE PLAN, BLDG. DEPT. FOR BLDG PERMIT, PUTNAM COUNTY HEALTH DEPT, NYSDOT			NO <input type="checkbox"/>	YES <input checked="" type="checkbox"/>
3. a. Total acreage of the site of the proposed action?		1.41 acres		
b. Total acreage to be physically disturbed?		.99 acres		
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor?		1.41 acres		
4. Check all land uses that occur on, are adjoining or near the proposed action:				
5. <input type="checkbox"/> Urban <input type="checkbox"/> Rural (non-agriculture) <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Commercial <input checked="" type="checkbox"/> Residential (suburban) <input type="checkbox"/> Forest <input type="checkbox"/> Agriculture <input type="checkbox"/> Aquatic <input type="checkbox"/> Other(Specify): <input type="checkbox"/> Parkland				

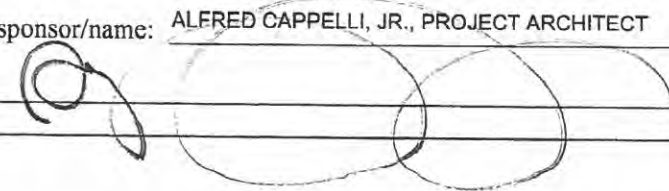
5. Is the proposed action,	NO	YES	N/A
a. A permitted use under the zoning regulations?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Consistent with the adopted comprehensive plan?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	NO	YES	
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: _____	NO	YES	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
8. a. Will the proposed action result in a substantial increase in traffic above present levels? b. Are public transportation services available at or near the site of the proposed action? c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action?	NO	YES	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies: _____ _____	NO	YES	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water: _____ _____	NO	YES	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: _____ _____	NO	YES	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. a. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? b. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	NO	YES	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency? b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____ _____ _____	NO	YES	
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply: <input type="checkbox"/> Shoreline <input type="checkbox"/> Forest <input type="checkbox"/> Agricultural/grasslands <input type="checkbox"/> Early mid-successional <input type="checkbox"/> Wetland <input type="checkbox"/> Urban <input checked="" type="checkbox"/> Suburban		
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?	NO <input type="checkbox"/>	YES <input checked="" type="checkbox"/>
16. Is the project site located in the 100-year flood plan?	NO <input checked="" type="checkbox"/>	YES <input type="checkbox"/>
17. Will the proposed action create storm water discharge, either from point or non-point sources? If Yes, a. Will storm water discharges flow to adjacent properties? b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe: _____ _____	NO <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	YES <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
18. Does the proposed action include construction or other activities that would result in the impoundment of water or other liquids (e.g., retention pond, waste lagoon, dam)? If Yes, explain the purpose and size of the impoundment: _____ _____	NO <input checked="" type="checkbox"/>	YES <input type="checkbox"/>
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? If Yes, describe: _____ _____	NO <input checked="" type="checkbox"/>	YES <input type="checkbox"/>
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? If Yes, describe: _____ _____	NO <input checked="" type="checkbox"/>	YES <input type="checkbox"/>

I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

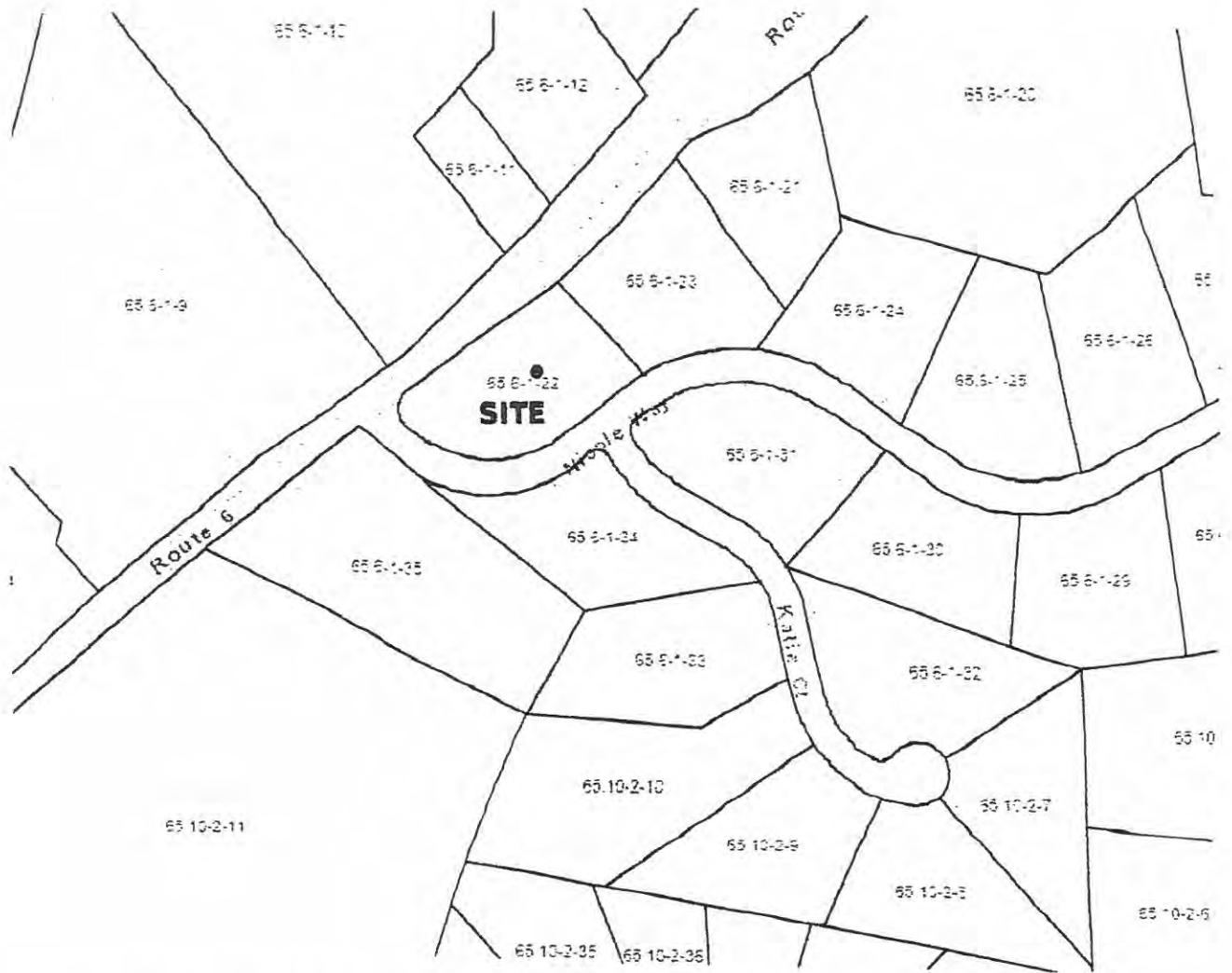
Applicant/sponsor/name: ALFRED CAPPELLI, JR., PROJECT ARCHITECT

Date: 10/8/20 (REVISED)

Signature: 

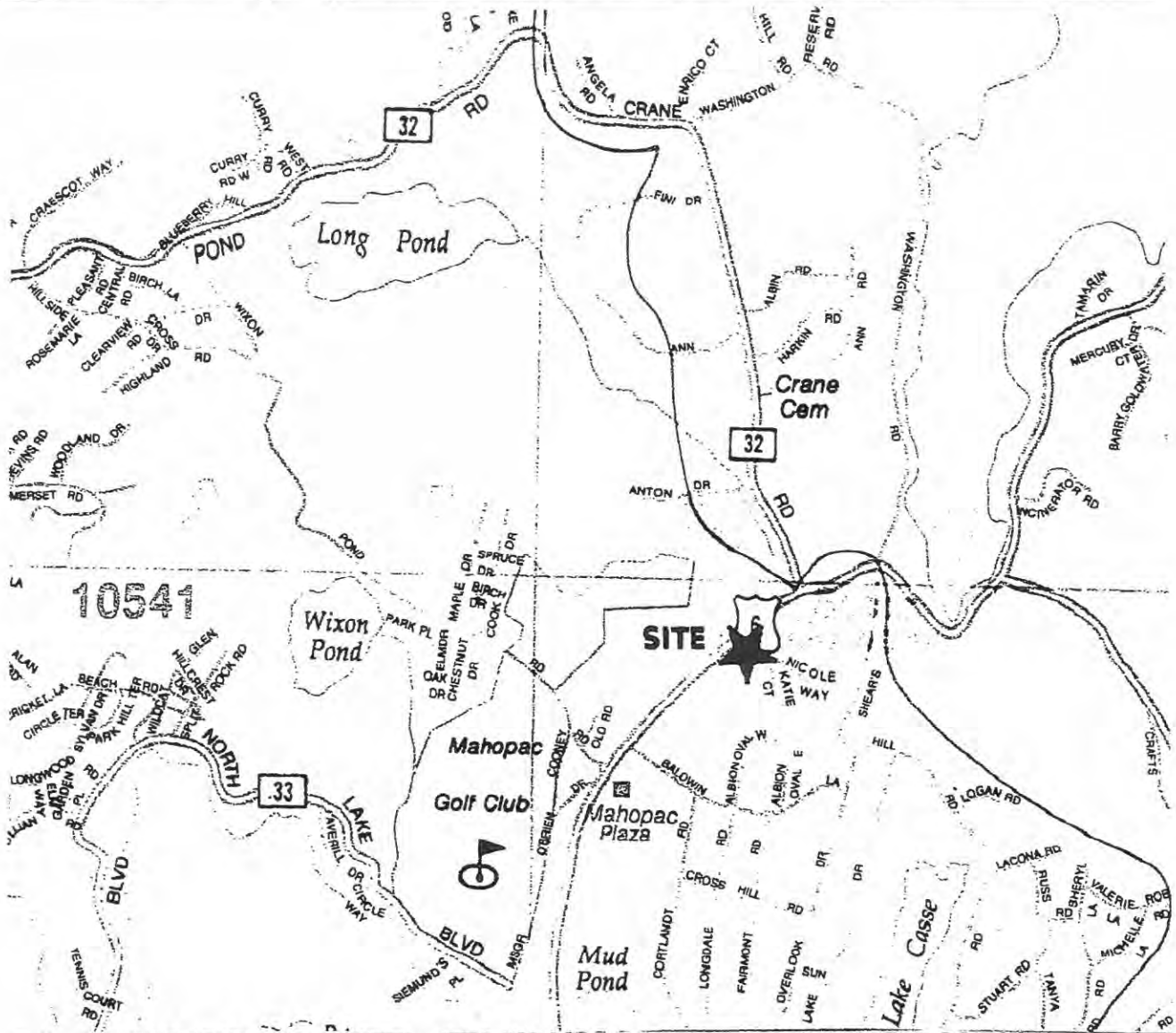
Title: PROJECT ARCHITECT

AREA MAP



JOE ZAKON - COMMERCIAL DEVELOPMENT
14 NICOLE WAY & NYS ROUTE 6

LOCATION MAP

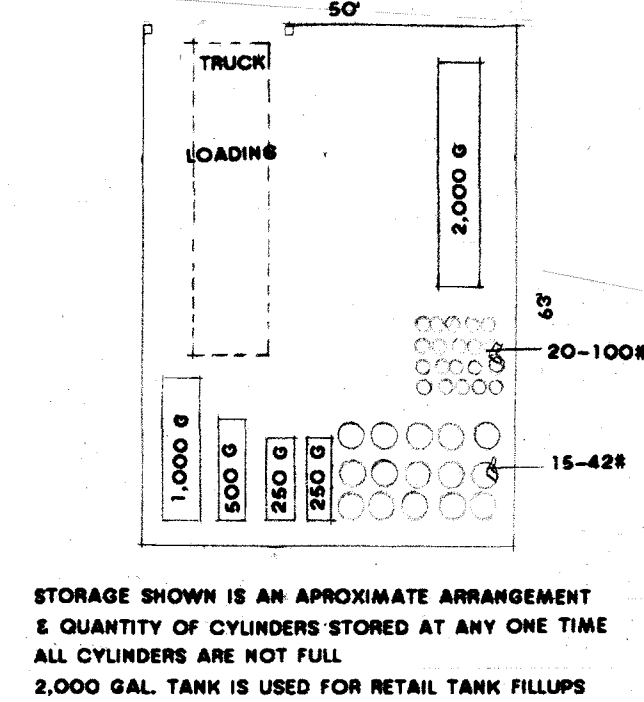


JOE ZAKON - COMMERCIAL DEVELOPMENT
14 NICOLE WAY & NYS ROUTE 6

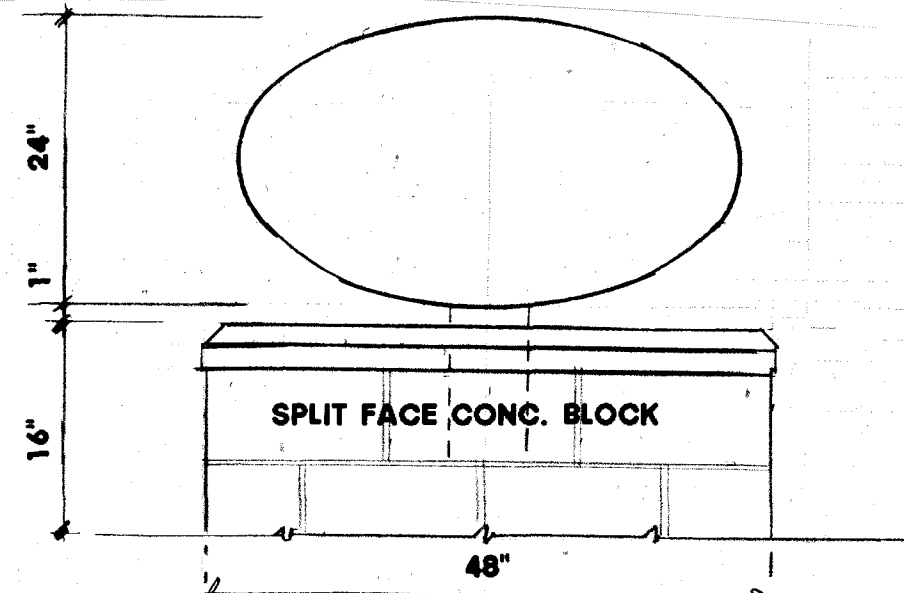
- 65.10-2-11
Nicandro Realty Co, Inc.
Att: J. Prisco
11 Birch Grove Dr.
Armonk, NY 10504
- 65.6-1-10
Synod of Bishops
75 E. 93rd St.
New York, NY 10128
- 65.6-1-21
Chad Collesian
1085 Rt. 6
Mahopac, NY 10541
- 65.6-1-20
City of New York
Bureau of Water Supply, Taxes
71 Smith Ave.
Kingston, NY 12401
- 65.6-1-33
Joseph Minnix
19 Katie Ct.
Mahopac, NY 10541
- 65.6-1-23
Butter Bean Properties, LLC
PO Box 97
Holmes, NY 12531
- 65.6-1-32
William DeBrocky
37 Katie Ct.
Mahopac, NY 10541
- 65.6-1-25
Lisa Giordano
44 Nicole Way
Mahopac, NY 10541
- 65.6-1-9
Synod of Bishops
75 E. 93rd St.
New York, NY 10128
- 65.6-1-11
Christopher Perrone
1076 Rt. 6
Mahopac, NY 10541
- 65.6-1-13
Carpac, LLC
1090 Rt. 6
Mahopac, NY 10541
- 65.6-1-22
14 Nicole Way, Inc.
49 Salem Ridge Rd.
Carmel, NY 10512
- 65.6-1-34
William Silkowski
21 Nicole Way
Mahopac, NY 10541
- 65.6-1-31
Mary Lou DeSiervi
31 Nicole Way
Mahopac, NY 10541
- 65.6-1-30
Patricia Simone
41 Nicole Way
Mahopac, NY 10541
- 65.6-1-35
Church of the Holy Communion
1055 Rt. 6
Mahopac, NY 10541

- 65.6-1-12
Synod of Bishops
75 E. 93rd St.
New York, NY 10128
- 65.6-1-22
Trust, Joan & Howard Stockfield
49 West Lake Blvd.
Mahopac, NY 10541
- 65.10-2-10
Nunzio Terlizzi
23 Katie Ct.
Mahopac, NY 10541
- 65.6-1-24
Kyung O. Park Chenet
34 Nicole Way
Mahopac, NY 10541
- 65.6-1-25
Andrew Marchetta
44 Nicole Way
Mahopac, NY 10541

OUTDOOR STORAGE



FREESTANDING SIGN



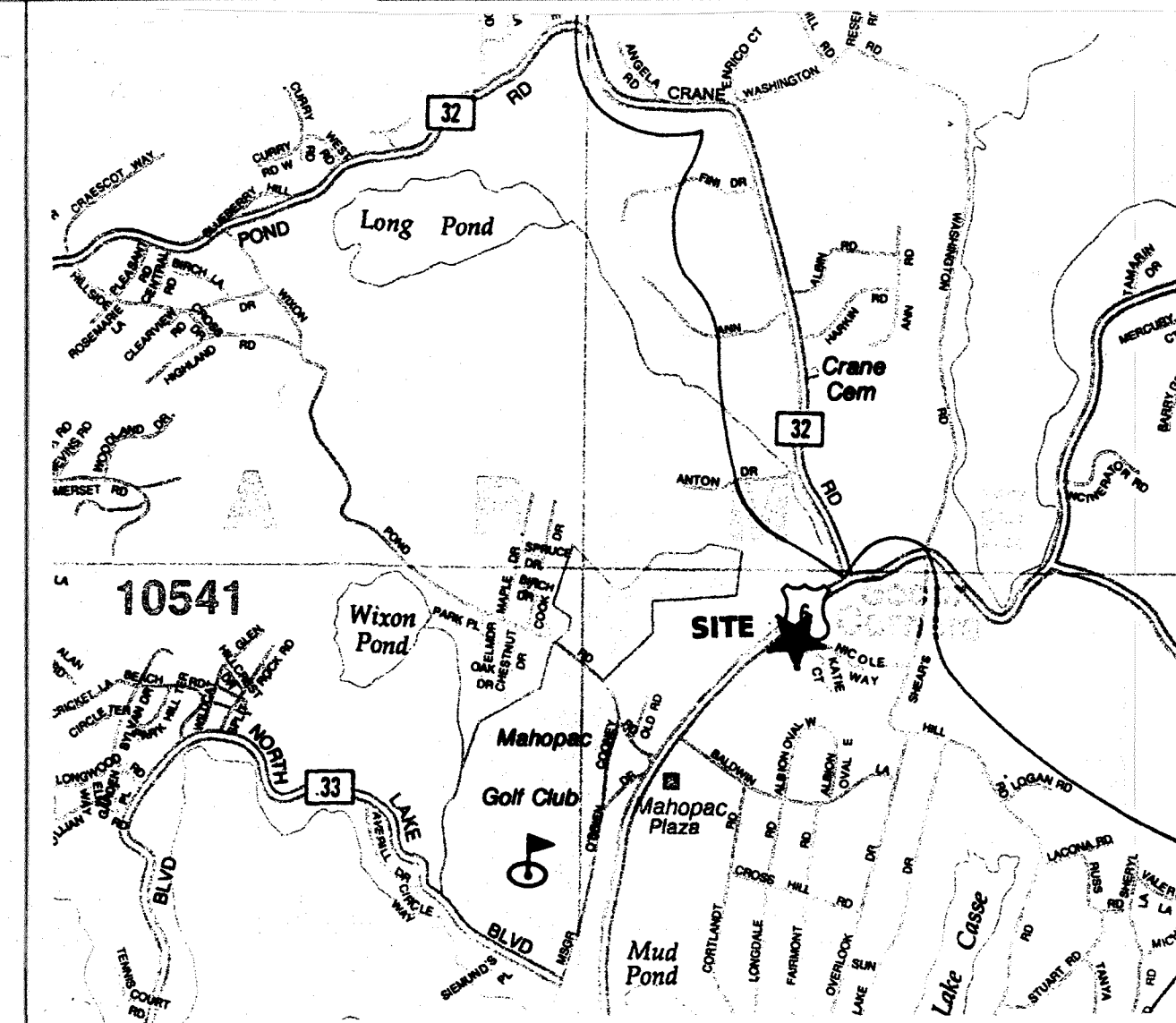
PARKING

Warehouse: 1/1,000 sf gross
4,000 sf
4 spaces req'd.

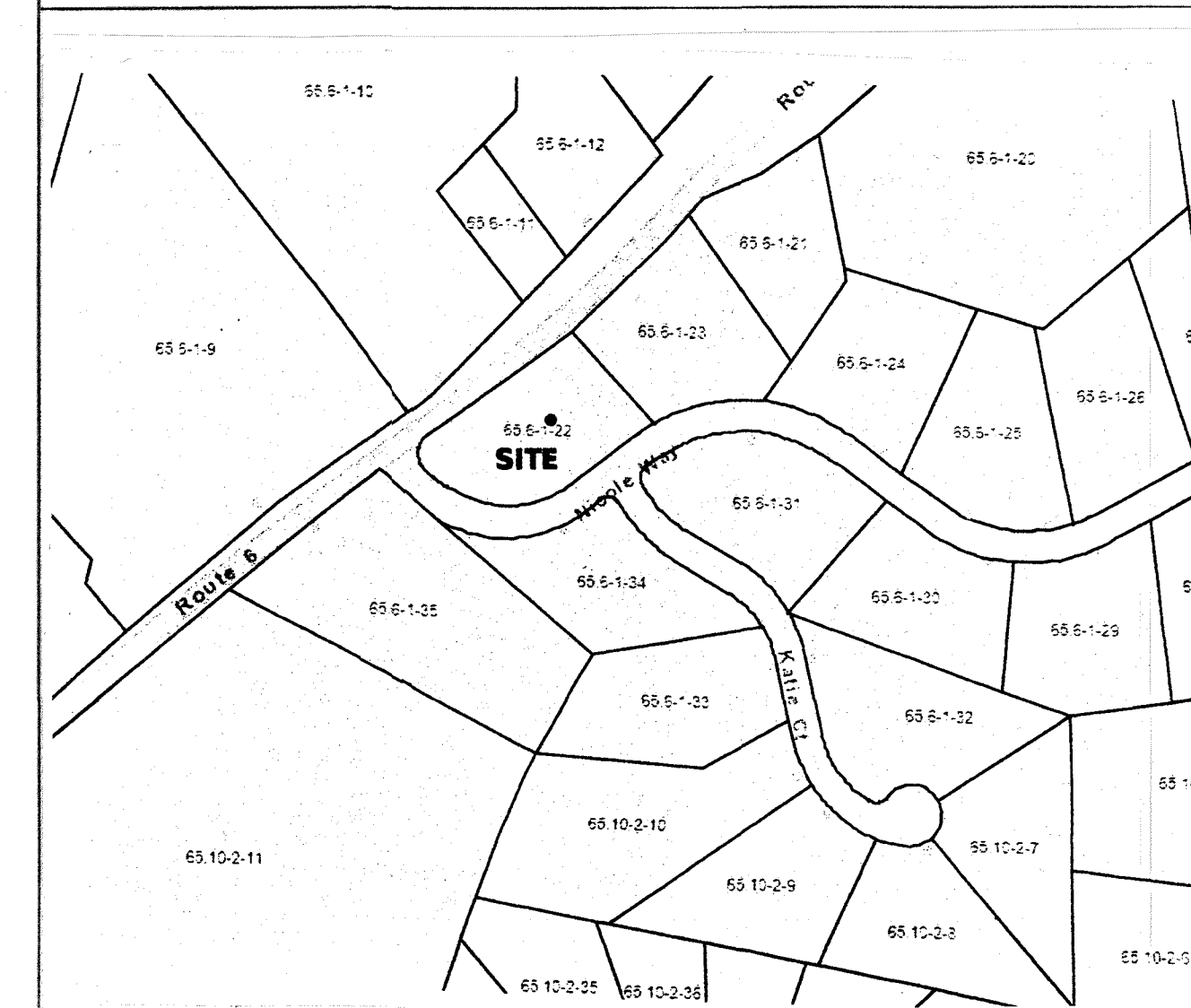
Office Area:
2,400 sf
12 spaces req'd.

Office Area:
Total spaces req'd. = 16
Total spaces provided = 16
Number employees: 7 including owner

LOCATION MAP

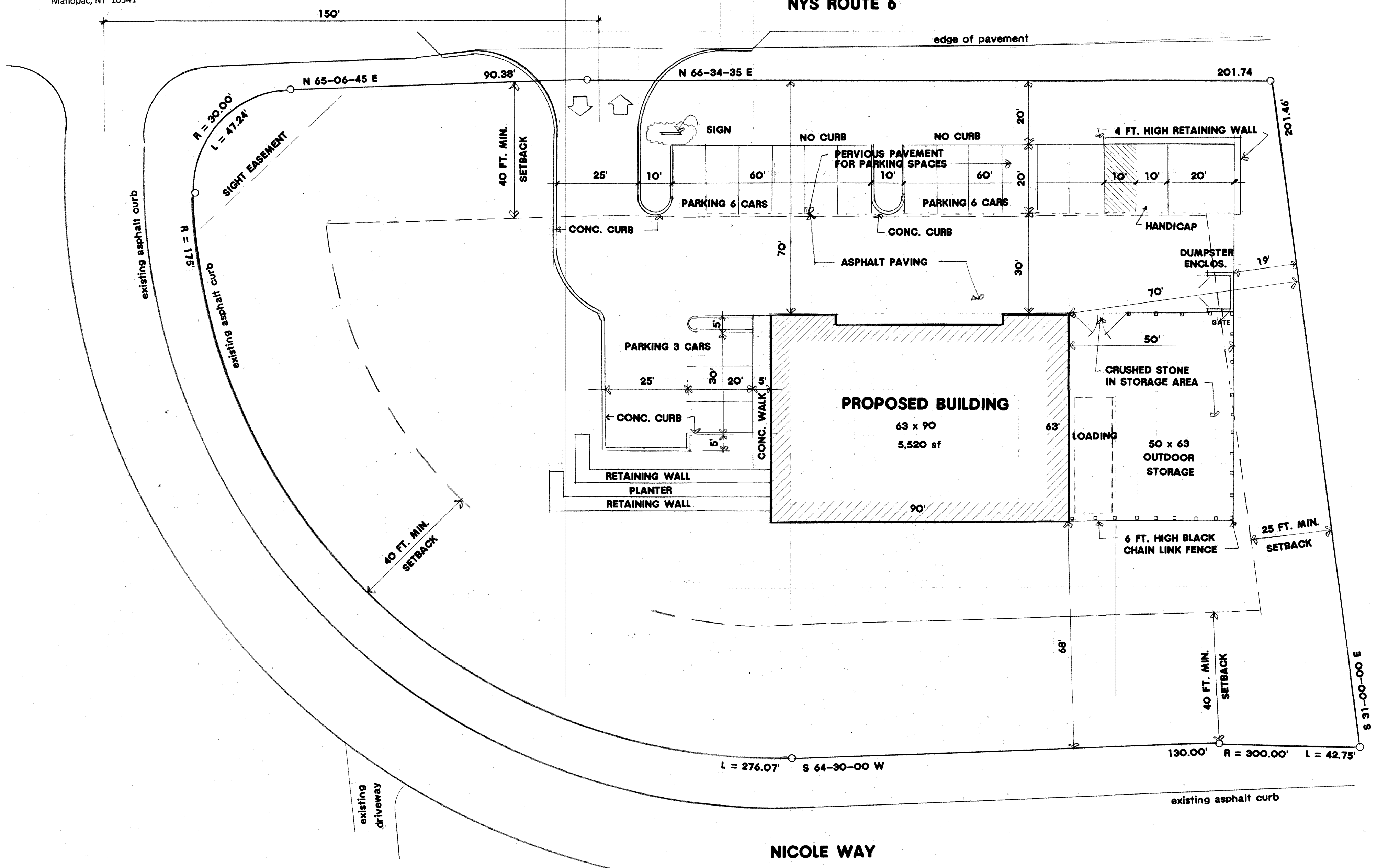


AREA MAP

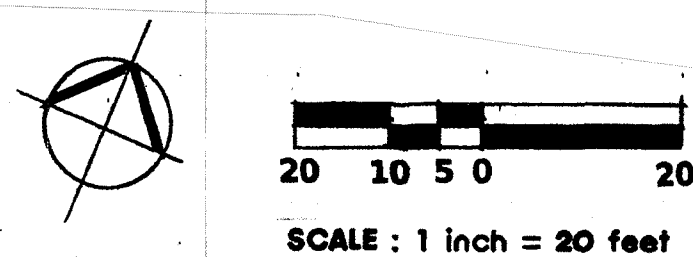


PROJECT DATA

	Req'd./Allowed	Provided
Min. lot size	40,000 sf	61,752 sf (1.417 AC)
Min. lot size Width	200 ft.	± 330 ft at bldg. line
Depth	200 ft.	± 200 ft. (irreg.)
Setbacks		
Front	40 ft.	70 ft. to Rt. 6
Rear	40 ft.	68 ft.
Sides	25 ft.	70 ft.
Max. bldg. cover	30% (18,525 sf)	5,520 sf (8.93%)
Bldg. area proposed		5,520 sf
Paved area (parking & walk)		15,800 sf, 25.6%
Total impervious (bldg. & paved)		21,320 sf, 34.5%
Open space		40,432 sf, 65.5%
Bldg. height	35 ft.	25 ft.



NORTH ARROW & SCALE



OWNER CERTIFICATION

The undersigned, Joe Zakon, owner of the property hereon states that he is familiar with the map, its contents and legends, and hereby consents to all said terms and conditions as stated hereon.

Owner _____ Date _____

OWNER & APPLICANT

Joe Zakon
14 Nicole Way, Inc.
PO Box 14
Mahopac, NY 10541

SITE DATA

Location 14 Nicole Way Corner of Rt. 6 & Nicole Way Town of Carmel Putnam County, NY	Lot Area 1.417 AC (61,752 sf)
Tax Map No. 65.6-1-22	Zoning Commercial (C)
	Proposed Use Vehicle Storage

REVISIONS	BY

ALFRED A. CAPPELLI Jr., AIA
ARCHITECT
1136 ROUTE 9 WAPPINGERS FALLS, N.Y. 12590
Phone: (845) 632-6500
acapapp2102@aol.com

PROPOSED NEW STORAGE BUILDINGS FOR
JOE ZAKON dba 14 NICOLE WAY LLC
CORNER OF ROUTE 6 & NICOLE WAY TOWN OF CARMEL, NY

SITE PLAN

SEPT. 29, 2020

DATE AUG. 6, 2020

SCALE 1" = 20'

DRAWN AC

JOB 18-010

SHEET

5-1

OF SHEETS

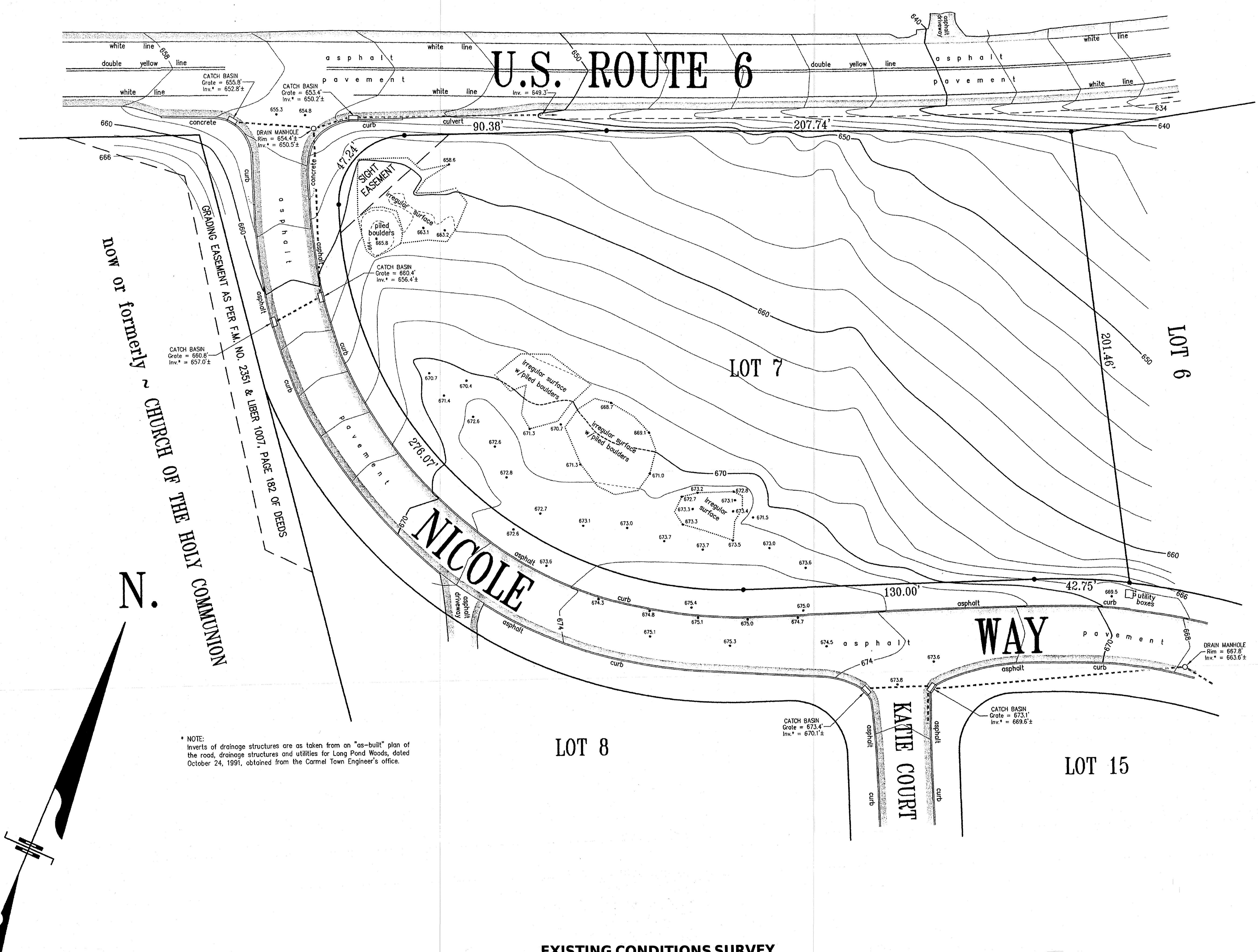
REVISIONS	BY

ALFRED A. CAPPELLI JR., AIA
ARCHITECT
 1136 ROUTE 9 WAPPINGERS FALLS, N.Y. 12590
 Phone: (845) 632-6500
 acapp210@aol.com

PROPOSED NEW RETAIL AND VEHICLE STORAGE BUILDING FOR
JOE ZAKON
 CORNER OF ROUTE 6 & NICOLE WAY TOWN OF CARMEL, NY

EXISTING CONDITIONS SURVEY

DATE	10/8/18
SCALE	1" = 20'
DRAWN	AC
JOB	18 010
SHEET	5 2
OF SHEETS	



EXISTING CONDITIONS SURVEY

SCALE : 1 inch = 20 feet

EXISTING CONDITIONS SURVEY AS PREPARED BY BAXTER LAND SURVEYING, PC, DATED MAY 4, 2018.

CS DIRECT

LANDSCAPING NOTES

- The work of furnishing and planting trees, shrubs and vines as shown on the plans and as approved by the Planning Board will be accomplished in accordance with accepted, established horticultural practices. Any change in plan type, etc., or location requires the written approval of the Planning Board.
- Plants: Common and scientific names of plants shall be in conformity with SPN (Standardized Plant Names). Plants including root spread and ball size shall be accordance with the current edition of "American Standard for Nursery Stock".
- Plants shall have a normal habit of growth and be typically characteristic of their respective kinds.
- Plants shall be free from injury, insect damage, and disease.
- Container grown plants shall have been grown long enough for new fibrous roots to have developed. Shrubs and vines shall have good fibrous root systems.
- No planting will be done when there are unsatisfactory conditions as determined by the Architect.
- Rock or other underground obstructions shall be removed to a depth as directed by the Architect.
- All plants shall be protected from drying out.
- Locations of plantings shall be marked out on the ground by the contractor to the satisfaction of the Architect.
- All plants will be set in accordance with good established horticultural practice.
- All plants shall be set plumb at such a level that after settlement they bear the same relationship to the level of the surrounding ground as they bore to the ground from which they were dug unless otherwise directed by the Architect.
- Backfill shall be thoroughly settled by tamping. Backfill is to be placed into plant pits in layers not to exceed 4" and tamped.
- Thorough watering should accompany backfill unless otherwise directed by the Architect. A saucer capable of holding water to a depth as shown on the plans shall be formed about each plant pit. All plants shall be watered to provide not less than five gallons of water per square yard of plant pit or bed areas.
- All cloth ropes, etc. shall be removed from the tops of balls, but not pulled out from under the balls.
- All trunks of deciduous trees shall be wrapped with a material as approved by the Architect immediately after planting.
- All trees shall be firmly guyed, staked, or anchored unless otherwise approved.
- Pruning shall be done in accordance with accepted good horticultural practice as directed by the Architect.
- Mulching shall cover the plant pit or planting bed to a depth as specified on the plans.
- The area disturbed by the planting operation shall be restored to an orderly condition as approved by the Architect.
- Anti-desiccants shall be applied to all plantings according to the manufacturer's directions. This material shall be applied to evergreens within two weeks of planting and to deciduous plantings placed in the fall when air temperature is above 40 degrees F or in the spring when leaves have reached 75% of mature size.
- All dead, unhealthy or badly impaired plants, as determined by the Architect, shall be promptly removed from the project.
- In the event of the threat of serious damage from insects, disease or rodents, the plants will be treated in accordance with good horticultural practice as approved by the Architect.
- All vegetation shown on this plan shall be maintained in a healthy and vigorous growing condition throughout the duration of the proposed use. All vegetation not so maintained shall be replaced with new comparable vegetation at the beginning of the next growing season.
- All planted areas where trees and/or shrubs are indicated, to have beds of whitewashed stone or pine bark chips as noted on plans.
- All remaining and disturbed areas not paved or being planted with trees or shrubs shall be seeded and mulched.
- Contractor to be responsible for bringing topsoil to site as necessary for proper seeding and planting.
- All planting shall be guaranteed by contractor a minimum of one year and be replaced as necessary.
- Fertilize and/or feed all plantings as recommended.
- After seeding germinates, contractor to be responsible for raking, mulching, re-seeding as necessary and cutting and maintaining lawn for a period of one month after germination and to the Architect's satisfaction.

ADDITIONAL NOTES

- ALL PLANTINGS SHALL BE INSTALLED PER SECTION 142 OF THE TOWN OF CARMEL CODE.
- ALL PLANTINGS SHALL BE VERIFIED BY THE TOWN OF CARMEL WETLANDS INSPECTOR

PLANTING SCHEDULE

Mark	Quantity	Botanical Name	Common Name	Size
Dkr	12	Diervilla Kodiak Red	Kodiak Red Honeysuckle	2 gal.
Ha	10	Hydrangea Arborescens	Invincible Spirit Hydrangea	2 gal.
Jhp	13	Juniperus Horizontalis Plumosa	Andarra Juniper	2 gal.
Pcb	5	Pyrus Calleryana	Bradford Pear	1 1/2' c
Ps	3	Pinus Strobus	White Pine	6' ht.

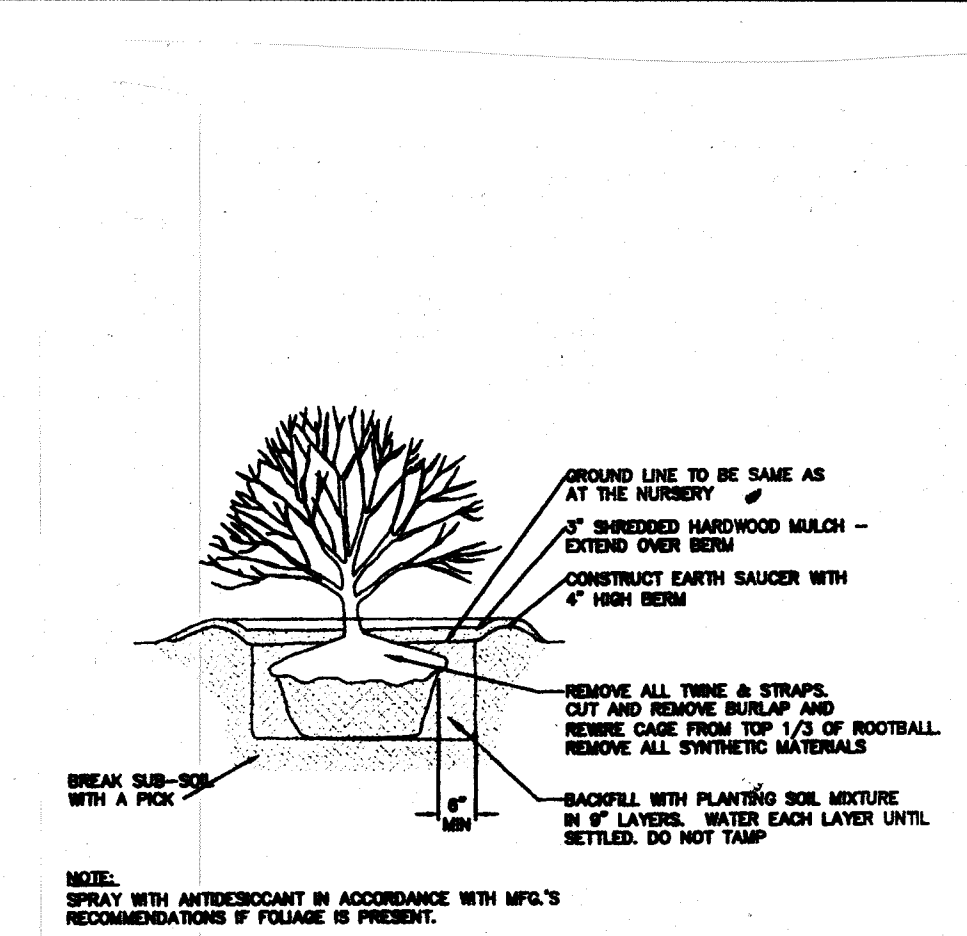
REVISIONS	BY

ALFRED A. CAPPELLI JR., AIA
ARCHITECT
1136 ROUTE 9 WAPPINGERS FALLS, N.Y. 12590
Phone: (845) 632-6500
acappe210@aol.com

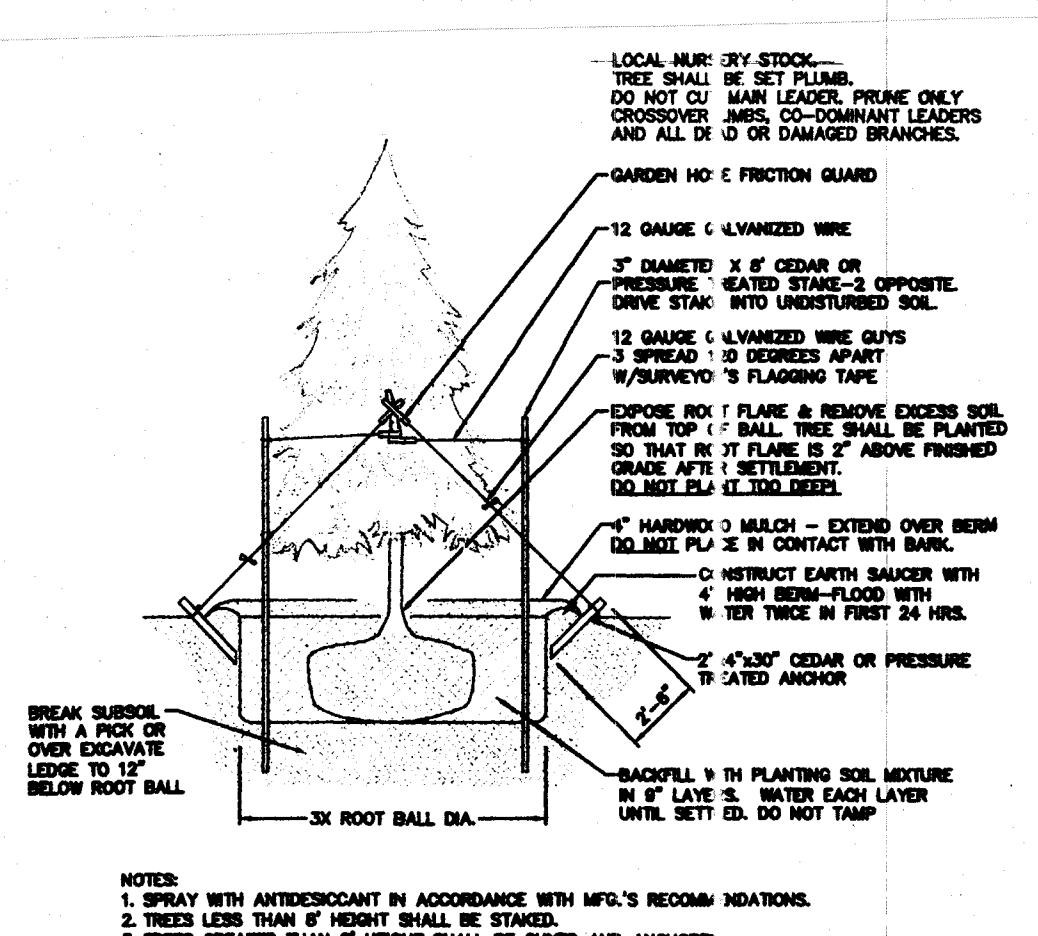
PROPOSED NEW STORAGE BUILDINGS FOR
JOE ZAKON dba 14 NICOLE WAY LLC
CORNER OF ROUTE 6 & NICOLE WAY TOWN OF CARMEL, NY

LANDSCAPING PLAN,
DETAILS & NOTES

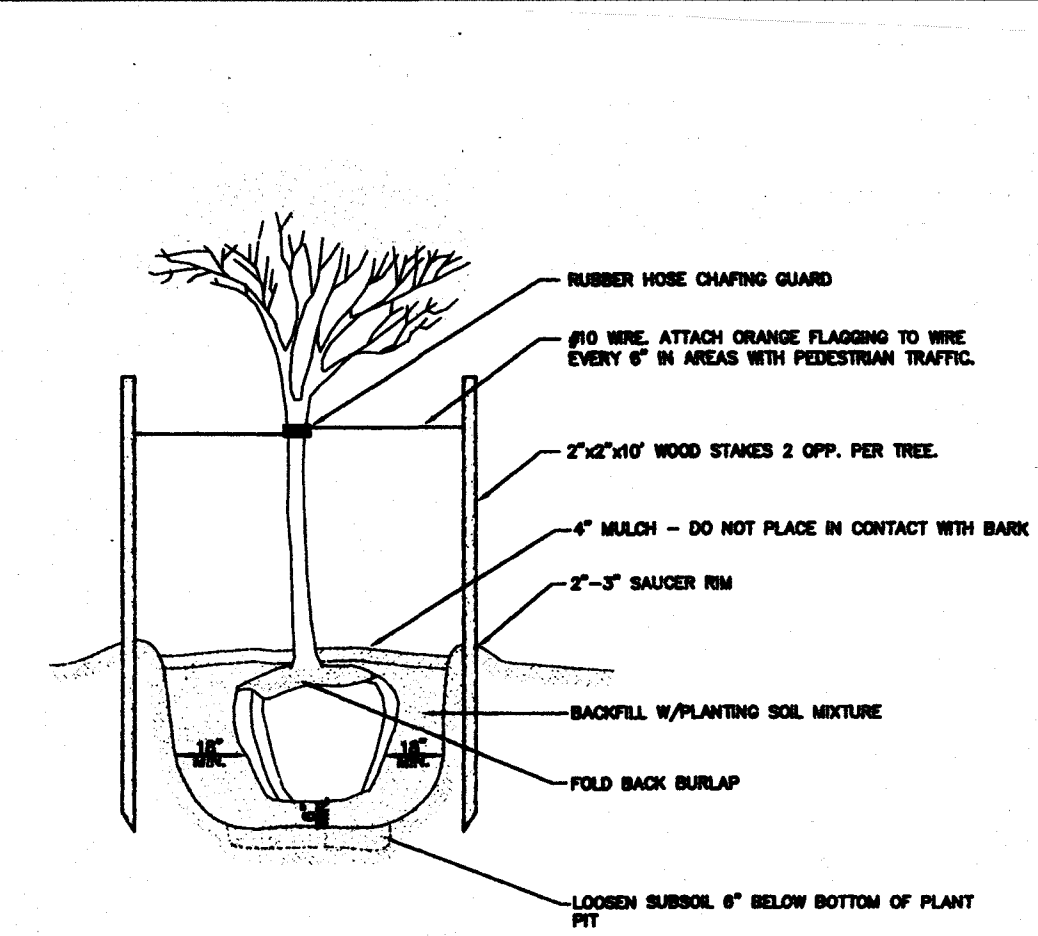
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JOB: 18-010
SHEET: S-3
OF SHEETS



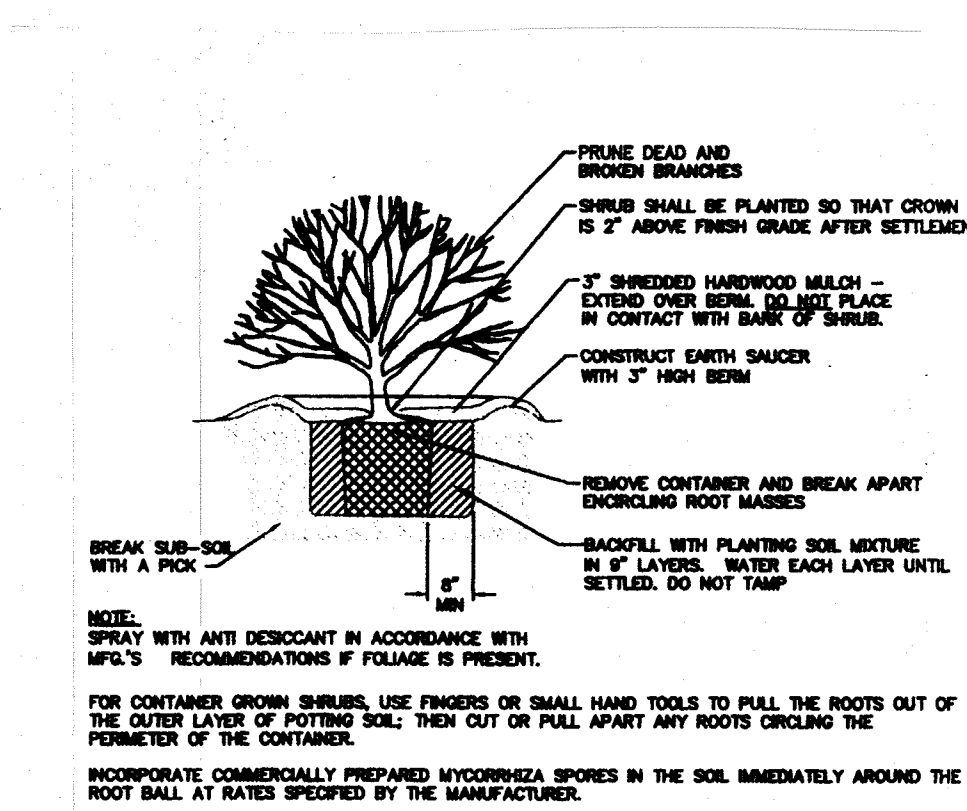
1 SHRUB PLANTING DETAIL FOR ALL SHRUBS BALLED & BURLAPPED
NOT TO SCALE



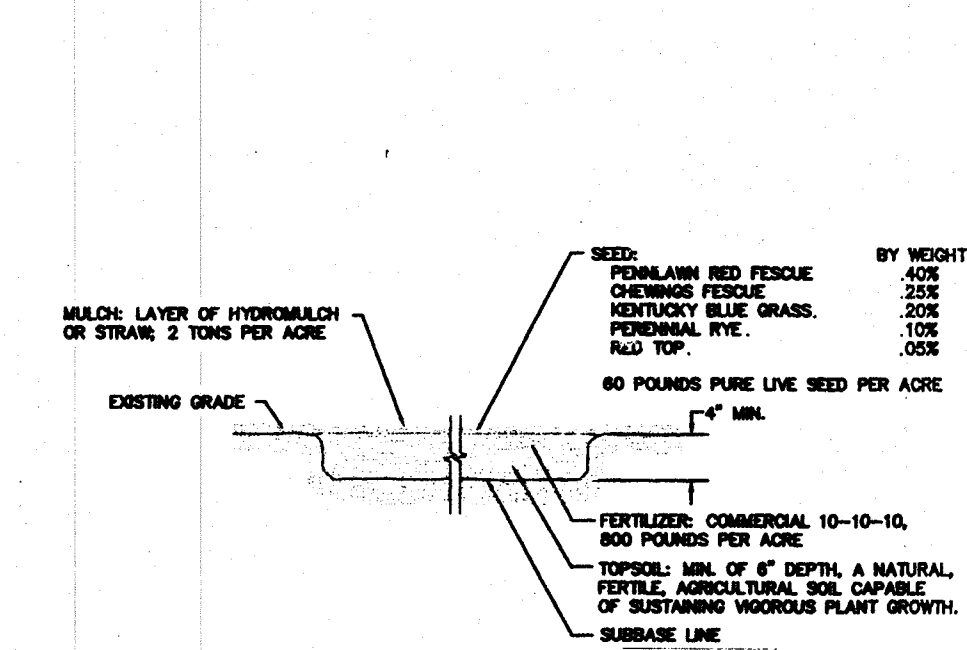
2 EVERGREEN TREE PLANTING
NOT TO SCALE



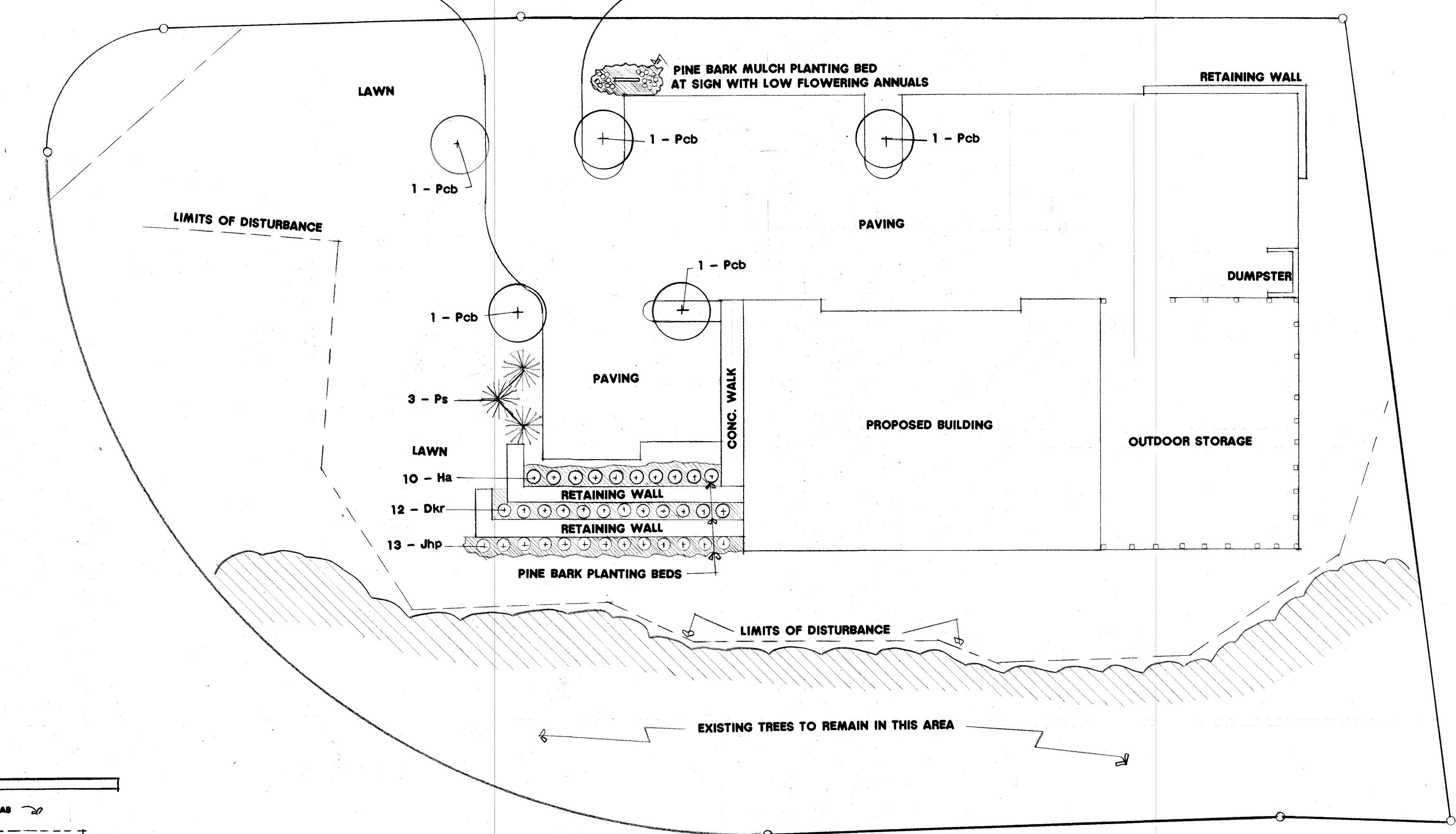
3 DECIDUOUS TREE
NOT TO SCALE



4 SHRUB PLANTING DETAIL FOR CONTAINERIZED SHRUBS
NOT TO SCALE

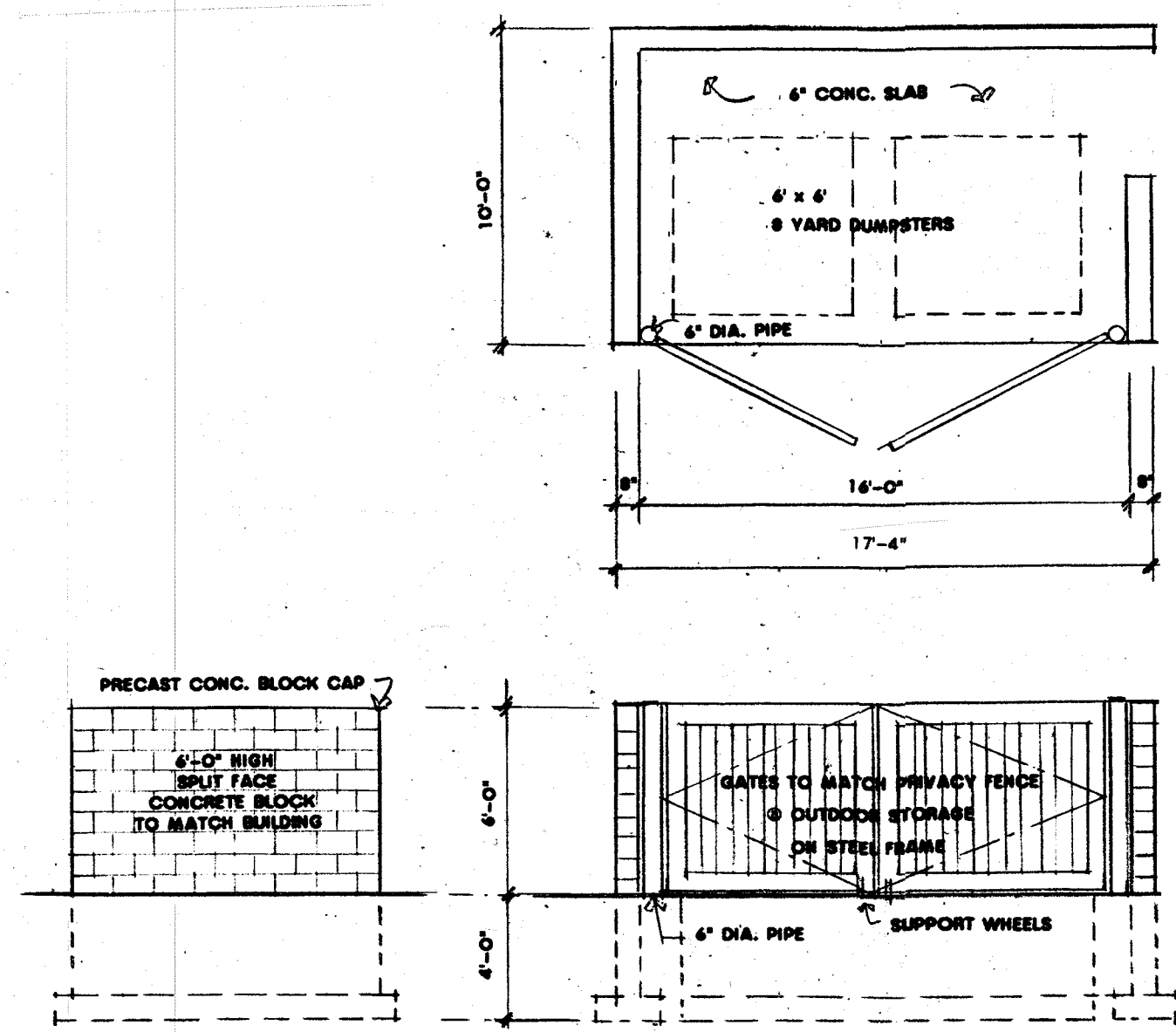


5 TOPSOIL, FERTILIZER, SEED & MULCH
NOT TO SCALE

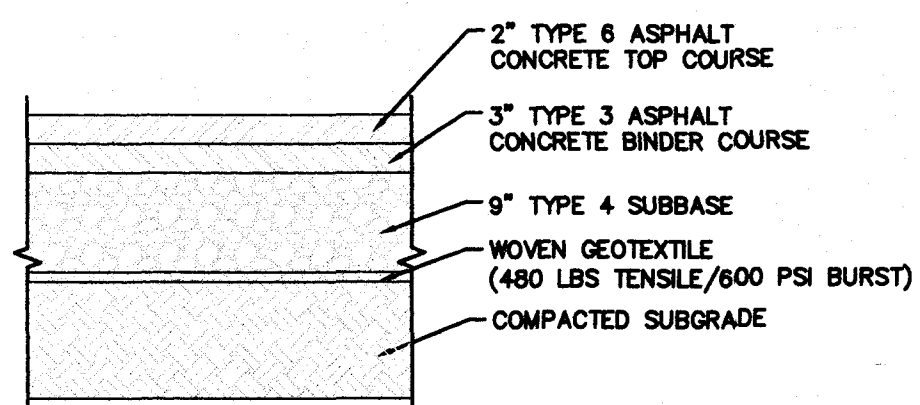


LANDSCAPING PLAN

SCALE: 1 inch = 20 feet



DUMPSTER ENCLOSURE DETAIL

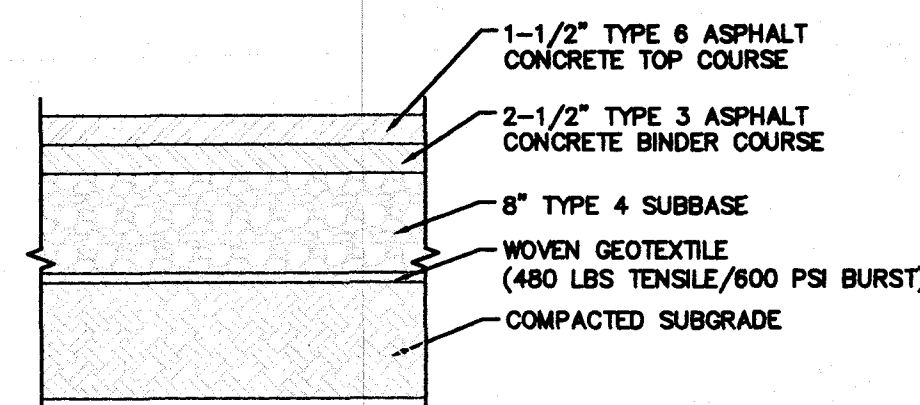


NOTES:

1. MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED JANUARY 2, 2006, AND ALL ADDENDA THERETO, THE ONLY EXCEPTION BEING THAT THE WORK OF THIS CONTRACT SHALL BE MEASURED IN ENGLISH UNITS.
2. SUBBASE MATERIAL SHALL CONFORM WITH SECTION 304 - SUBBASE COURSE OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND THE TYPE CALLED OUT IN THESE DRAWINGS.
3. TACK COAT WHEN SPECIFIED OR CALLED OUT IN THESE DRAWINGS OR REQUIRED BY THE REFERENCED SPECIFICATIONS SHALL CONFORM WITH SECTION 407-TACK COAT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
4. WHERE IT IS NECESSARY TO PLACE FILL FOR PURPOSES OF BRINGING THE SUBGRADE ELEVATION UP TO A SPECIFIED GRADE, THE FILL MATERIAL PLACED SHALL BE IN CONFORMANCE WITH SECTION 203-EXCAVATION AND EMBANKMENT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.

PAVING DETAIL @ SITE ENTRANCE

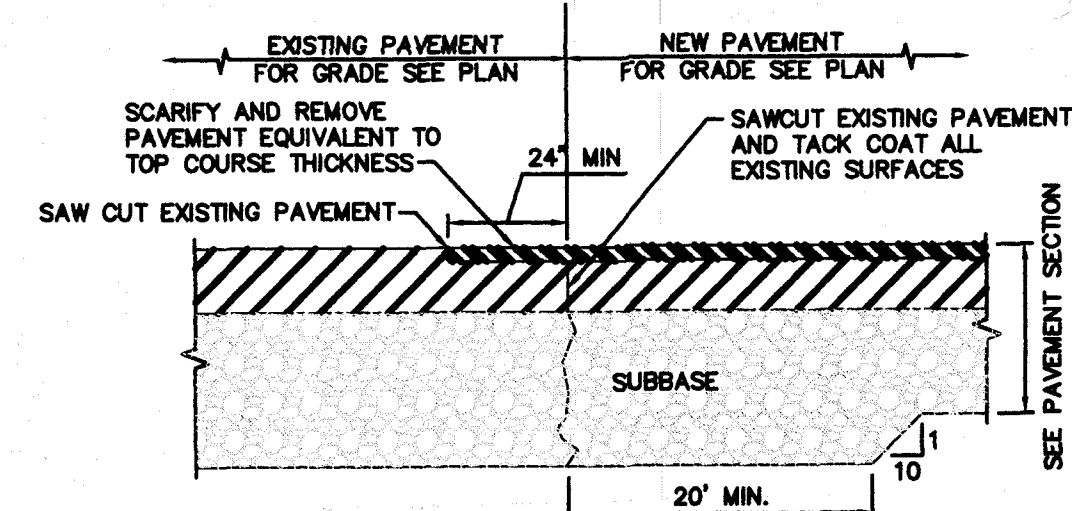
FOR 20 FT. ON TO THE PROPERTY FROM THE PROPERTY LINE



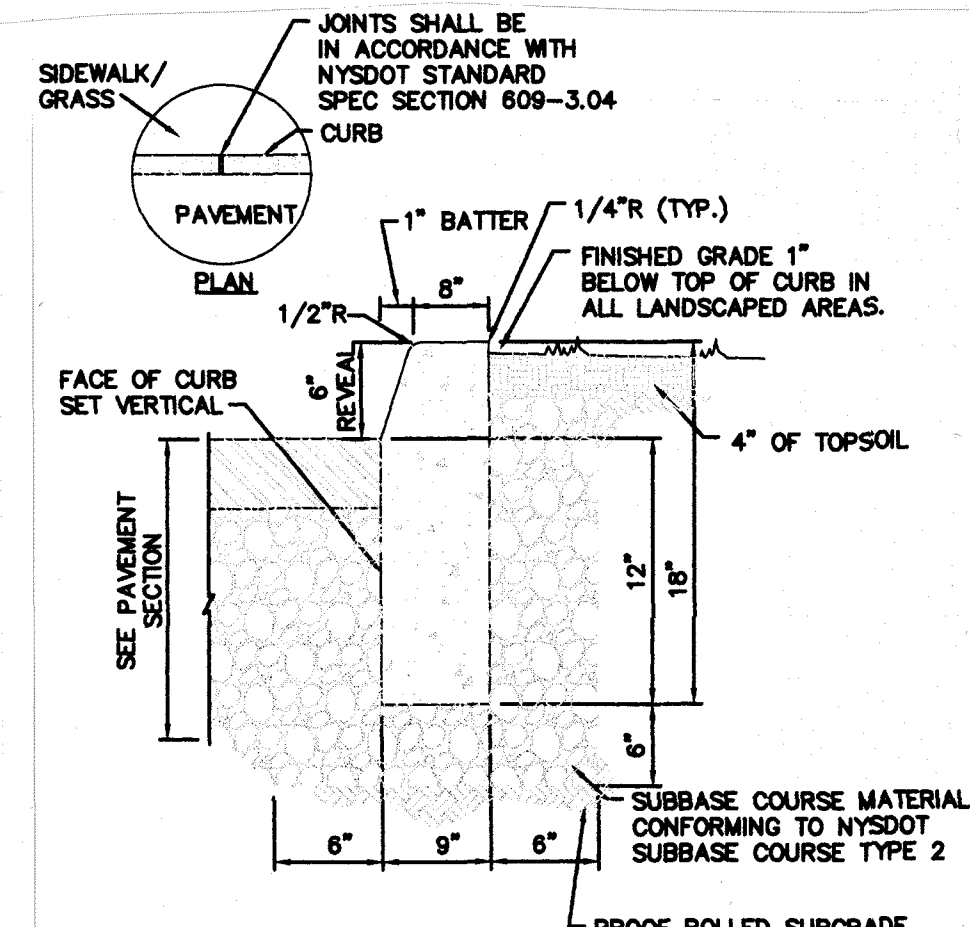
NOTES:

1. MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED JANUARY 2, 2006, AND ALL ADDENDA THERETO, THE ONLY EXCEPTION BEING THAT THE WORK OF THIS CONTRACT SHALL BE MEASURED IN ENGLISH UNITS.
2. SUBBASE MATERIAL SHALL CONFORM WITH SECTION 304 - SUBBASE COURSE OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND THE TYPE CALLED OUT IN THESE DRAWINGS.
3. TACK COAT WHEN SPECIFIED OR CALLED OUT IN THESE DRAWINGS OR REQUIRED BY THE REFERENCED SPECIFICATIONS SHALL CONFORM WITH SECTION 407-TACK COAT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
4. WHERE IT IS NECESSARY TO PLACE FILL FOR PURPOSES OF BRINGING THE SUBGRADE ELEVATION UP TO A SPECIFIED GRADE, THE FILL MATERIAL PLACED SHALL BE IN CONFORMANCE WITH SECTION 203-EXCAVATION AND EMBANKMENT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.

PAVING DETAIL @ LOT INTERIOR

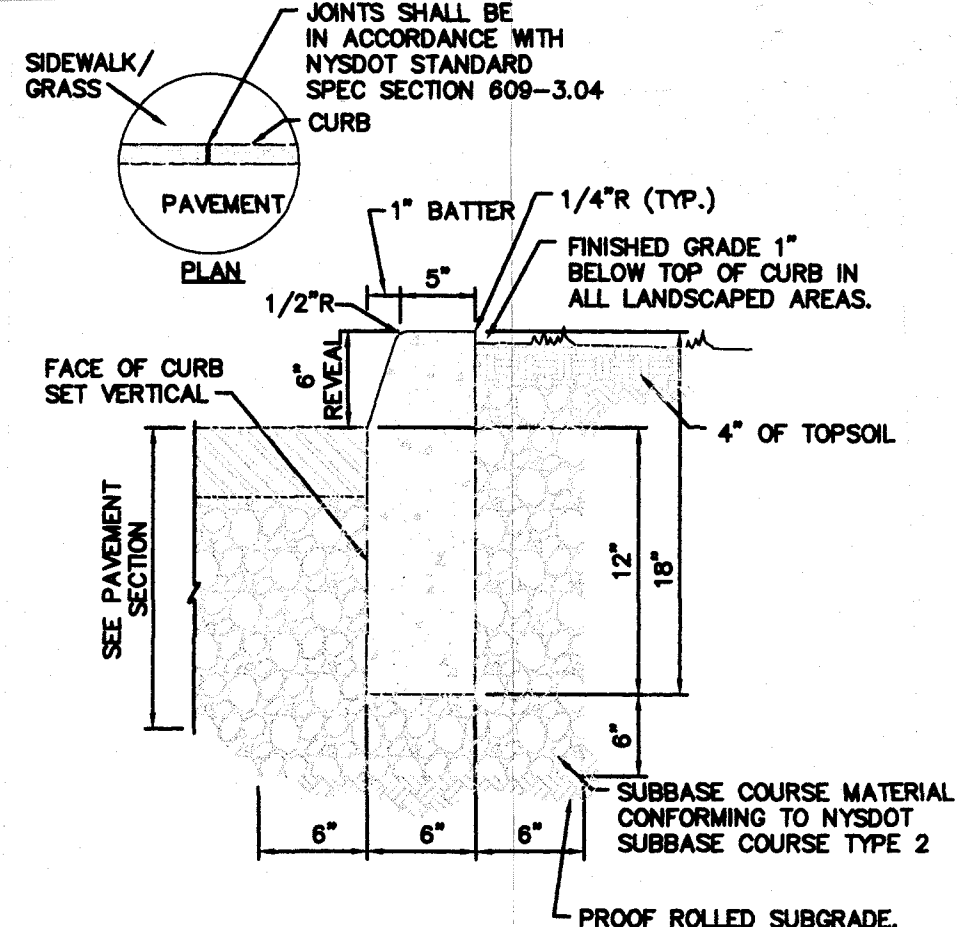


PAVEMENT TRANSITION @ SITE ENTRANCE



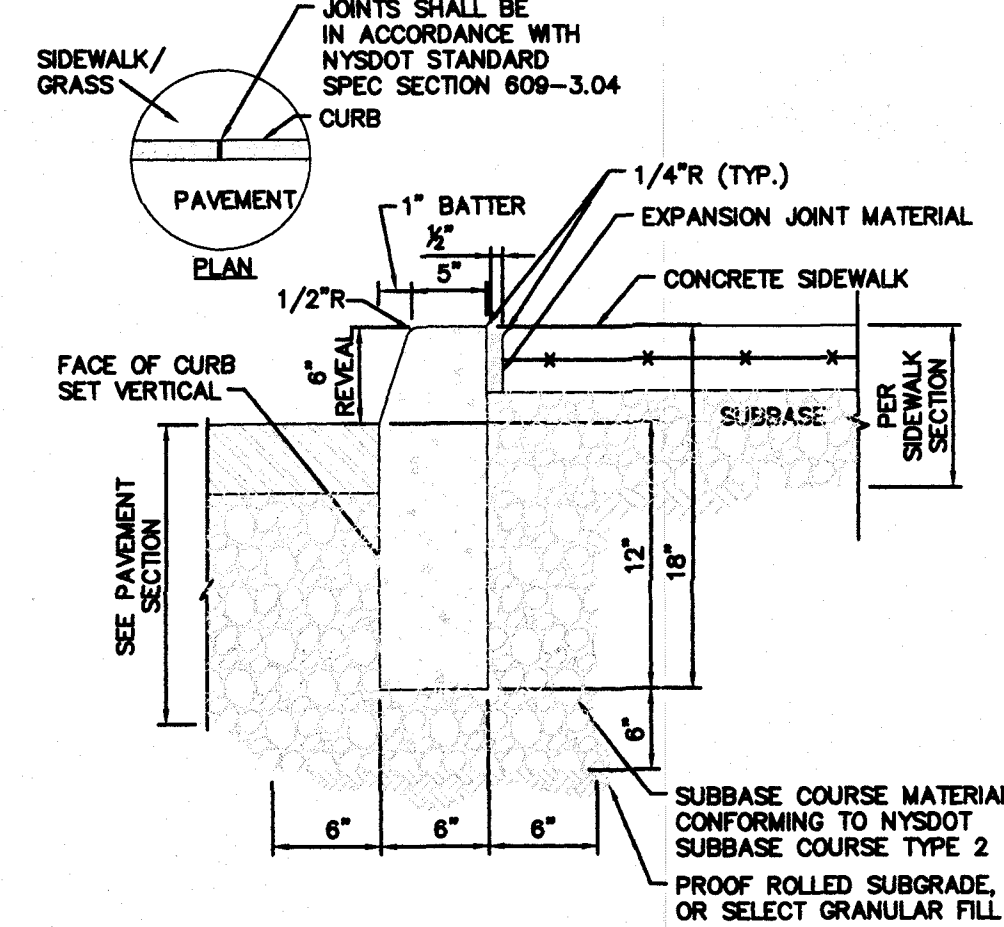
- NOTES:**
1. CONCRETE CURB SHALL BE IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATION SECTION 609.
 2. PRECAST CONCRETE CURB MAY BE SUBSTITUTED WHEN ALTERNATE CONSTRUCTION DETAILS ARE SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

CONCRETE CURB @ SITE ENTRY



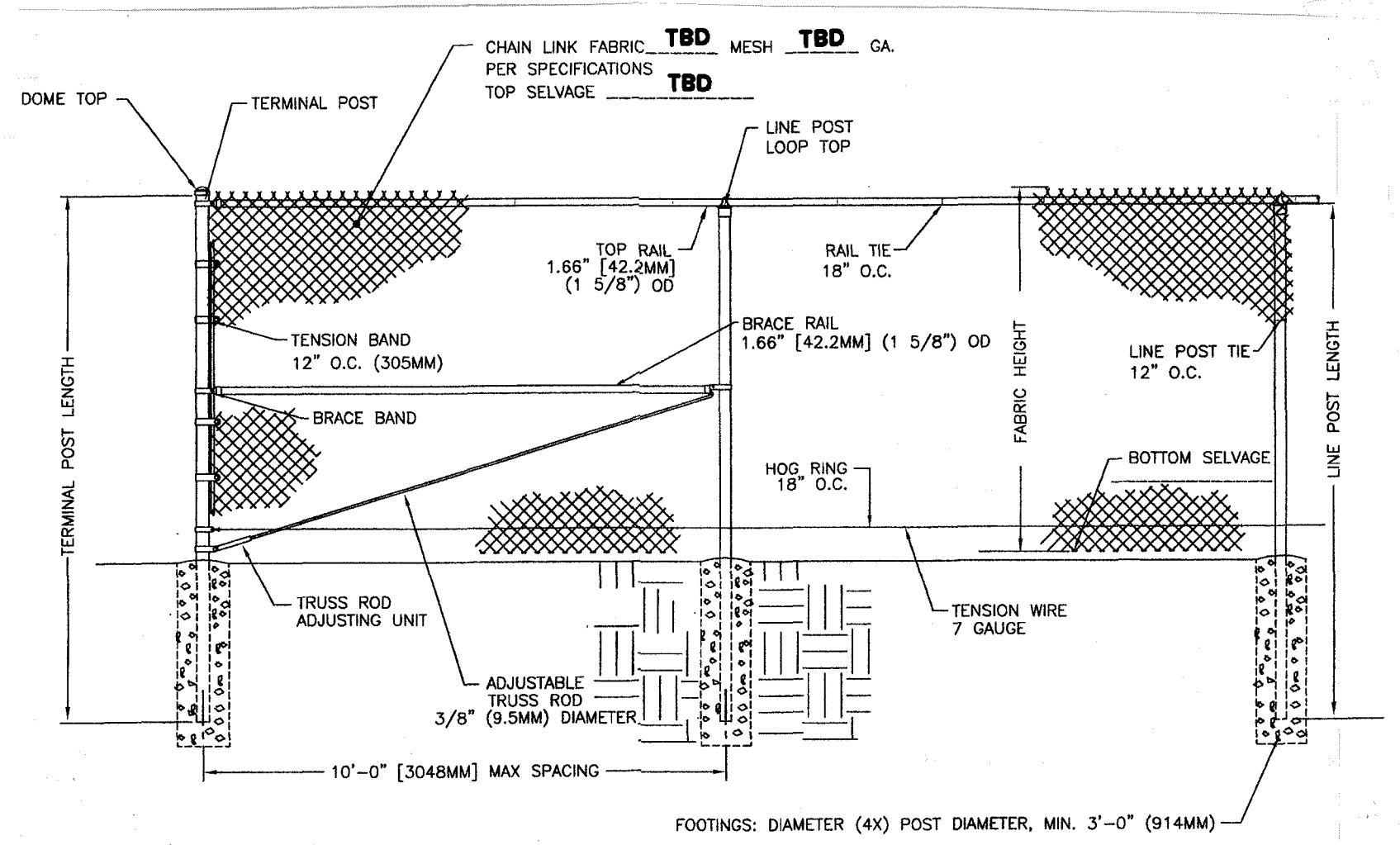
- NOTES:**
1. CONCRETE CURB SHALL BE IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATION SECTION 609.
 2. PRECAST CONCRETE CURB MAY BE SUBSTITUTED WHEN ALTERNATE CONSTRUCTION DETAILS ARE SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

CONCRETE CURB @ SITE INTERIOR



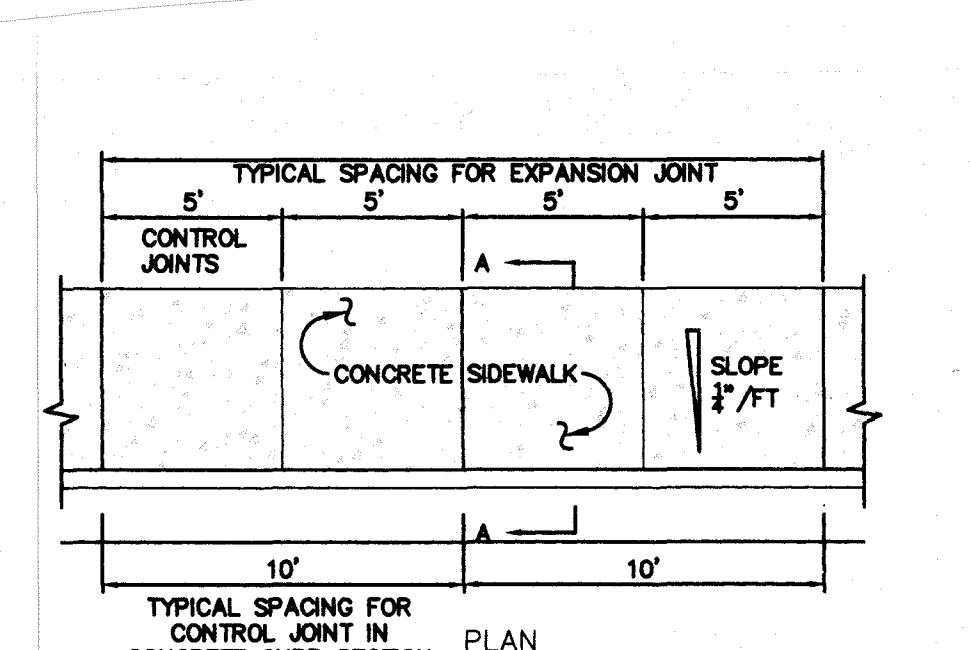
- NOTES:**
1. CONCRETE CURB SHALL BE IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATION SECTION 609.
 2. PRECAST CONCRETE CURB MAY BE SUBSTITUTED WHEN ALTERNATE CONSTRUCTION DETAILS ARE SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

CONCRETE CURB @ SIDEWALK

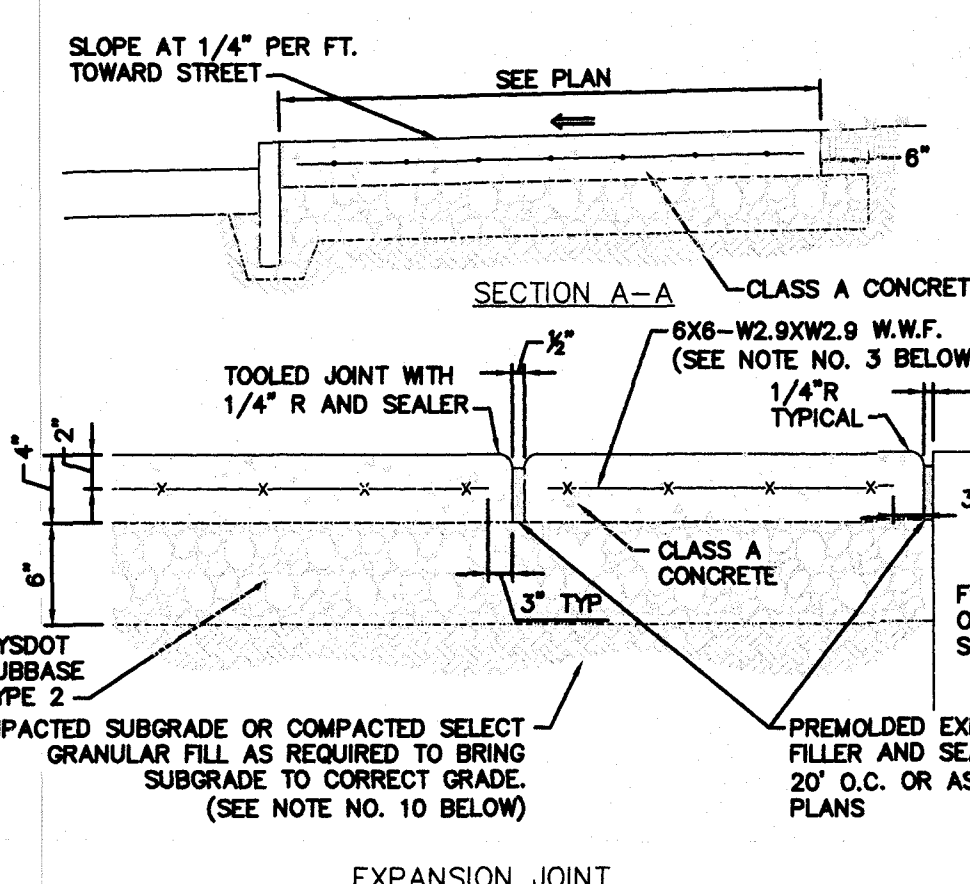


BLACK CHAIN LINK FENCE DETAIL

SEE PLAN FOR HEIGHT

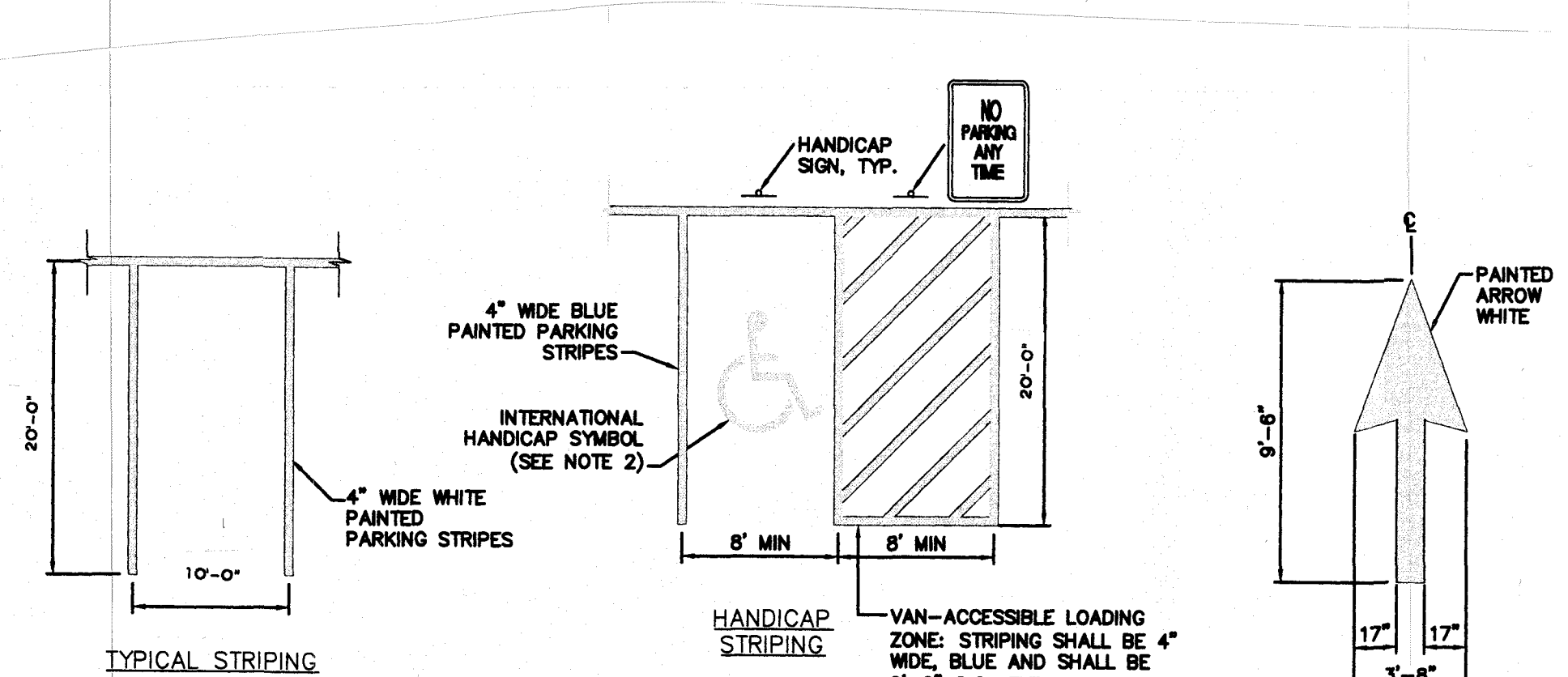


- NOTES:**
1. 10' SPACING OF CONTROL JOINTS SHALL BE USED FOR CAST IN PLACE CONCRETE CURBS.



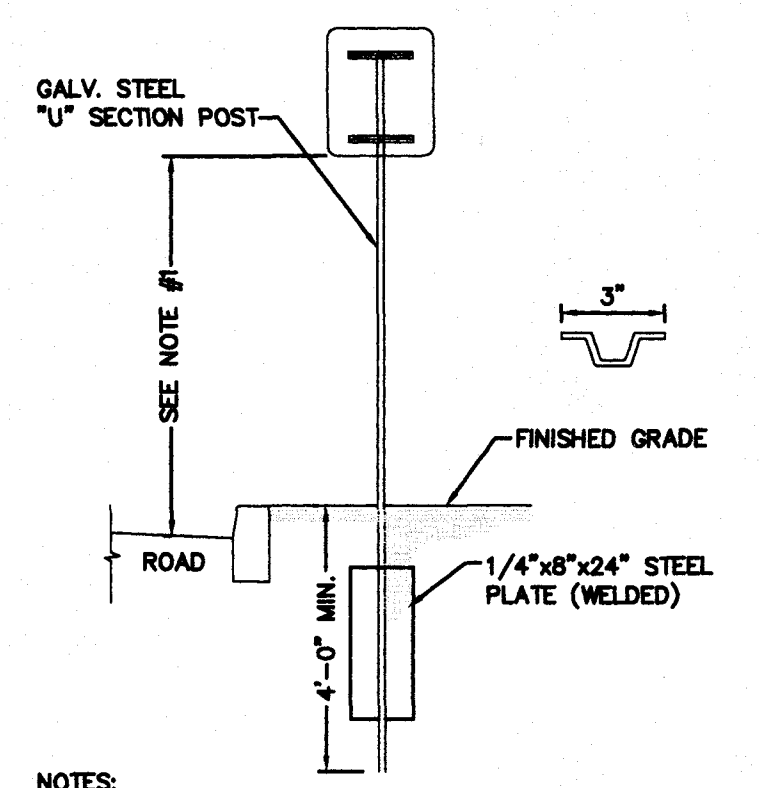
CONCRETE SIDEWALK DETAIL

- NOTES:**
1. MATERIAL AND METHODS OF CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE 2006 NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS AND ALL ADDENDA THERETO, THE ONLY EXCEPTION BEING THAT THE WORK OF THIS CONTRACT SHALL BE MEASURED IN ENGLISH UNITS.
 2. ALL CONCRETE SHALL BE 4000 PSI CLASS A CONCRETE. CONCRETE MATERIALS, PLACEMENT, AND CONSTRUCTION SHALL CONFORM WITH SECTION 500 OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
 3. REINFORCING STEEL FOR CONCRETE SHALL CONFORM WITH SECTION 506-REINFORCING STEEL FOR CONCRETE STRUCTURES OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND AS SPECIFICALLY CALLED OUT IN THE DRAWINGS.
 4. ALL EXPOSED SURFACED SHALL HAVE A BROOM TEXTURED FINISH.
 5. EXPANSION JOINTS SHALL BE LOCATED A MAXIMUM OF 20'-0" ON CENTER, OR AS INDICATED ON PLANS.
 6. JOINTS SHALL NOT BE SAW CUT.
 7. EXPOSED CONCRETE SURFACES SHALL BE TREATED WITH "SUREBOND"/"SAFESEAL" SB-7000 INTENSIFIER BRIGHT PROTECTOR AND SIDEWALK SEALER, OR EQUAL. RATE AND METHOD OF APPLICATION SHALL BE IN ACCORDANCE WITH MANUFACTURE'S RECOMMENDATIONS.
 8. SUBBASE MATERIAL SHALL CONFORM WITH SECTION 304 OF THE ABOVE REFERENCED NYSDOT STANDARD.
 9. WHERE IT IS NECESSARY TO PLACE FILL FOR PURPOSE OF BRINGING THE SUBGRADE ELEVATION UP TO A SPECIFIED GRADE, THE FILL MATERIAL PLACED SHALL BE IN CONFORMANCE WITH SECTION 203-EXCAVATION AND EMBANKMENT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
 10. ALL WORK SHALL CONFORM WITH SECTION 609-SIDEWALK, DRIVEWAYS, AND BICYCLE PATHS OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.



- NOTES:**
1. ALL DISTANCES SUBJECT TO CURRENT ZONING AND SITE REGULATIONS.
 2. PAINTED HANDICAP SYMBOL TO BE IN ACCORDANCE W/ ADA STANDARDS

PAVEMENT MARKING



- NOTES:**
1. SIGN MOUNTING HEIGHT SHALL BE A MINIMUM OF 7'. MINIMUM MOUNTING HEIGHT MAY BE ADJUSTED ONLY IN ACCORDANCE WITH PROVISIONS OUTLINED IN "NYCRR, CHAPTER V-UNIFORM TRAFFIC CONTROL DEVICES."
 2. SIGN POST SHALL BE IN ACCORDANCE W/ NYSDOT STANDARD SPECS SECTION 730.

SINGLE POST SIGN MOUNTING

SIGN SCHEDULE					
SIGN NO.	SIGN FACE	NUMBER	SIZE	COLORS	LEGEND
1		M12-1	24"x24"	BLUE	WHITE
2		P1-1C (NO ARROWS)	12"x18"	WHITE	RED
3		R1-1B	24"x24"	RED	WHITE

SIGNAGE NOTES:
 1. ALL SIGNS SHALL CONFORM TO THE LATEST EDITION OF THE NYSDOT STANDARD SPECIFICATIONS, SECTION 640 AND THE CODES RULES AND REGULATIONS OF THE STATE OF NEW YORK (NYCRR) TITLE 17-TRANSPORTATION VOLUME B-CHAPTER V "UNIFORM TRAFFIC CONTROL DEVICES."

REVISIONS	BY

ALFRED A. CAPELLI JR., AIA
 ARCHITECT
 1136 ROUTE 9 WAPPINGERS FALLS, N.Y. 12590
 Phone: (845) 632-6500
 aacape2102@aol.com

PROPOSED NEW STORAGE BUILDINGS FOR
JOE ZAKON dba 14 NICOLE WAY LLC
 CORNER OF ROUTE 6 & NICOLE WAY TOWN OF GARMEL, NY

SITE DETAILS

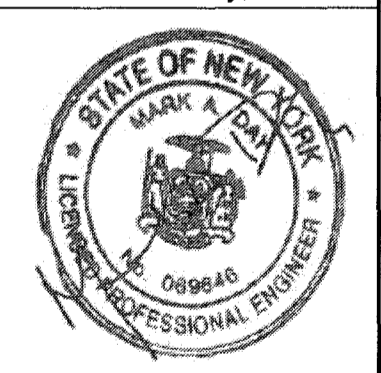
DATE	SEPT. 29, 2020
SCALE	JAN. 6, 2020
DRAWN	AS NOTED
JOB	AC
SHEET	18-010
OF SHEETS	S-4

- PRE-CONSTRUCTION SEQUENCE:**
1. SUBMIT NOTICE OF INTENT (N.O.I.) TO NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYS DEC) BUREAU OF WATER PERMITS, ALBANY NY.
 2. RECEIVE ACKNOWLEDGMENT OF N.O.I. FROM NYS DEC.
 3. HOLD A PRE-CONSTRUCTION MEETING WITH THE OWNER/OPERATOR, SITE ENGINEER, TOWN ENGINEER, TRAINED CONTRACTOR, QUALIFIED EROSION CONTROL INSPECTOR AND THE BUILDING INSPECTOR. PLACE A COPY OF THE SWPPP REPORT IN SITE MAILBOX ALONG WITH A COPY OF THE INSPECTOR'S LOG BOOK CONTAINING COPIES OF THE WEEKLY INSPECTIONS (APPLICANT'S EROSION & SEDIMENT CONTROL INSPECTION AGENT SHALL CONDUCT AN INSPECTION ON A WEEKLY BASIS)

- CONSTRUCTION SEQUENCE:**
1. PRIOR TO CONSTRUCTION, THE ANTI-TRACKING PAD SHALL BE INSTALLED.
 2. INSTALL SEDIMENT AND EROSION CONTROL MEASURE AS SHOWN ON THE SEDIMENT & EROSION CONTROL PLAN.
 3. COMMENCE INITIAL CLEARING AND GRUB OF THE SITE.
 4. BEGIN SITE GRADING AND EXCAVATION, ROUGH CUT PARKING AREAS TO SUB-GRADE.
 5. AREAS WHERE INFILTRATION MEASURES (E.G. SEPTIC AND POROUS PAVEMENT) ARE PROPOSED SHALL BE CORDONED OFF AFTER COMPLETION OF ROUGH GRADING WITH CONSTRUCTION FENCE TO MINIMIZE COMPACTION DURING THE REMAINDER OF CONSTRUCTION TO EVERY EXTENT POSSIBLE.
 6. INSTALL RETAINING WALLS AND GRADE REMAINDER OF THE SITE.
 7. INSTALL SITE UTILITIES AND/OR INFRASTRUCTURE.
 8. PLACE CONCRETE FOOTINGS AND FOUNDATIONS FOR THE PROPOSED BUILDING AND OTHER STRUCTURES.
 9. ONCE ALL MAJOR SITE WORK HAS BEEN COMPLETED, INSTALL THE POROUS PAVEMENT STONE BASE AND SEPTIC SYSTEMS.
 10. INSTALL BINDER COURSE, SIDEWALKS AND CURBING ONCE ALL MAJOR SITE WORK IS COMPLETE.
 11. TOPSOIL, SEED AND MULCH ALL DISTURBED AREAS THAT HAVE OBTAINED FINISHED GRADE ELEVATIONS.
 12. SEED AND MULCH ALL DISTURBED AREAS THAT WILL NOT BE RE-DISTURBED FOR AT LEAST 14 DAYS.
 13. FINALIZE BUILDING CONSTRUCTION.
 14. INSPECT INFILTRATION SYSTEM FOR ANY SEDIMENT ACCUMULATION AND/OR DAMAGE.
 15. PAVE PARKING AREA AND DRIVES WITH FINAL TOP-COAT OF ASPHALT.
 16. ONCE ALL MAJOR SITE DISTURBANCE ACTIVITIES HAVE CEASED AND THE SITE HAS ACHIEVED FINAL STABILIZATION, COORDINATE WITH THE LOCAL MS4 STORM WATER OFFICER TO FACILITATE TERMINATION OF EROSION CONTROL INSPECTIONS.
 17. ONCE THE SITE IS STABILIZED (I.E. THE GRASS HAS BEEN STABILIZED), THE EROSION CONTROL MEASURES CAN BE REMOVED.
 18. FILE A NOTICE OF TERMINATION WITH THE NYS DEC.

- SITE NOTES**
1. PROPERTY BOUNDARY, TOPOGRAPHY AND EXISTING UTILITY SHOWN HEREON ARE BASED ON A SURVEY ENTITLED "TOPOGRAPHIC SURVEY PREPARED FOR 14 NICOLE WAY", INC. DATED MAY 4, 2018.
 2. ESTIMATED AMOUNT OF MATERIAL EXPORTED - 2,800YD³ ESTIMATED TRUCK TRIPS - 187

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSONS TO ALTER THESE PLANS, SPECIFICATIONS, OR REPORTS IN ANY WAY, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR.

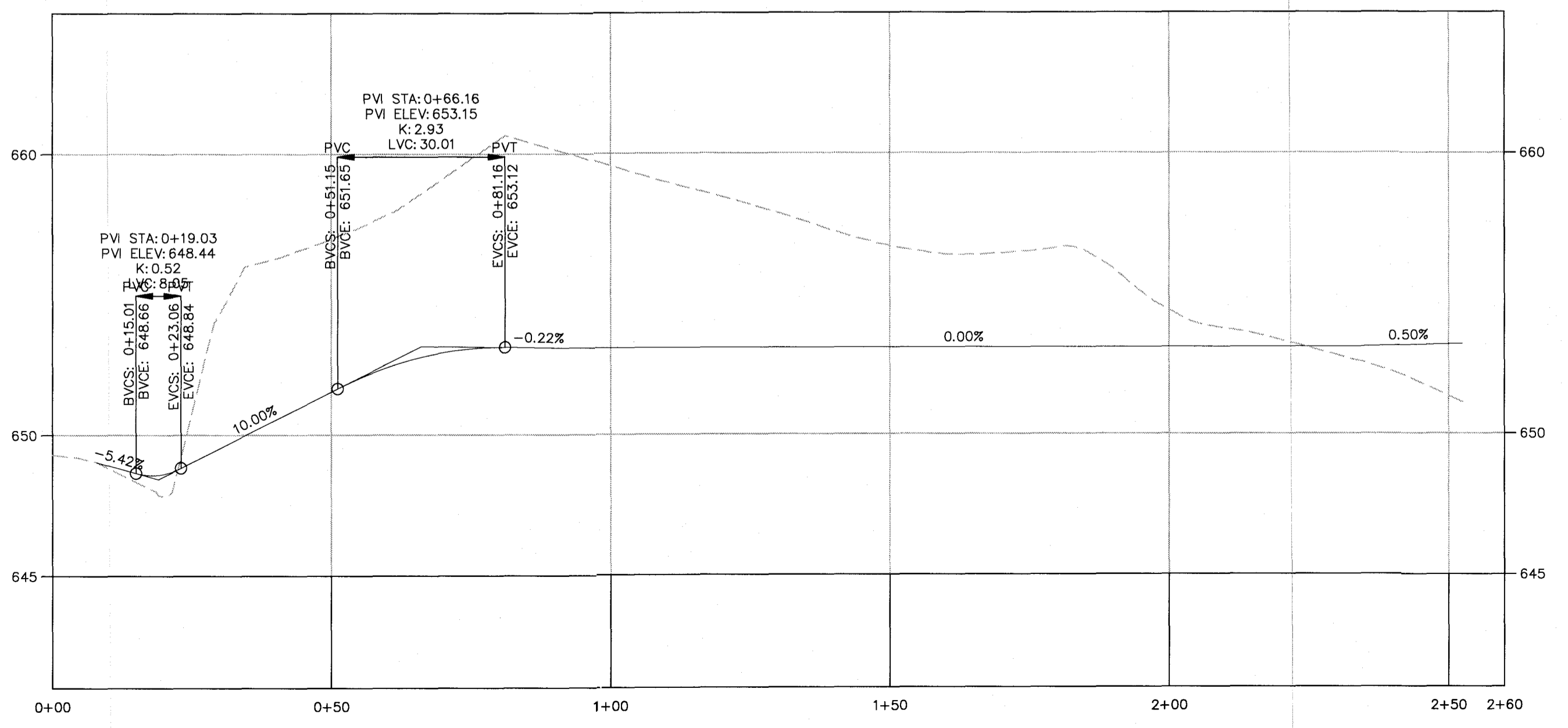
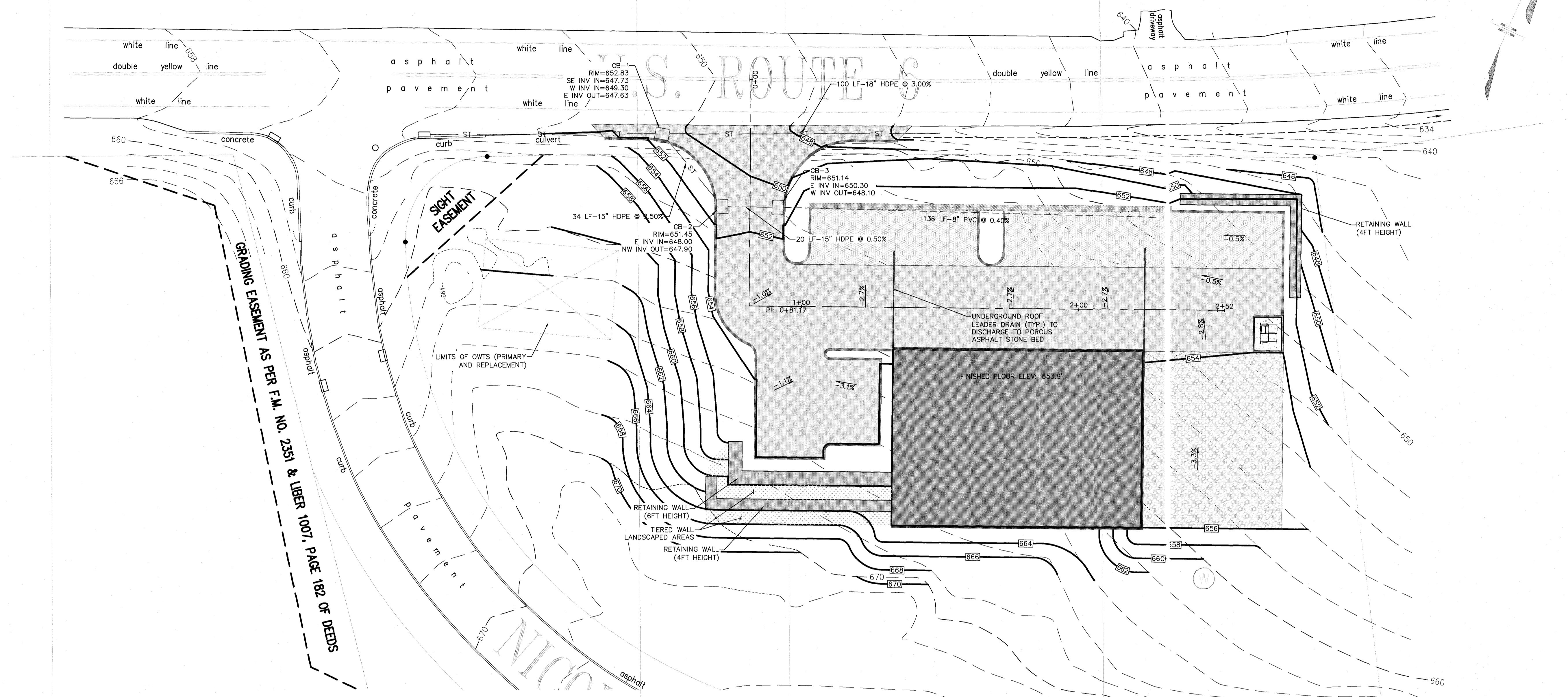
Mark A. Day, PE	
09-29-2020	
08-05-2020	
07-23-2020	
04-08-2020	
03-16-2020	
03-03-2020	
02-19-2020	
Project No: 2018-419	License No. 069646

DAY STOKOSA
ENGINEERING P.C.

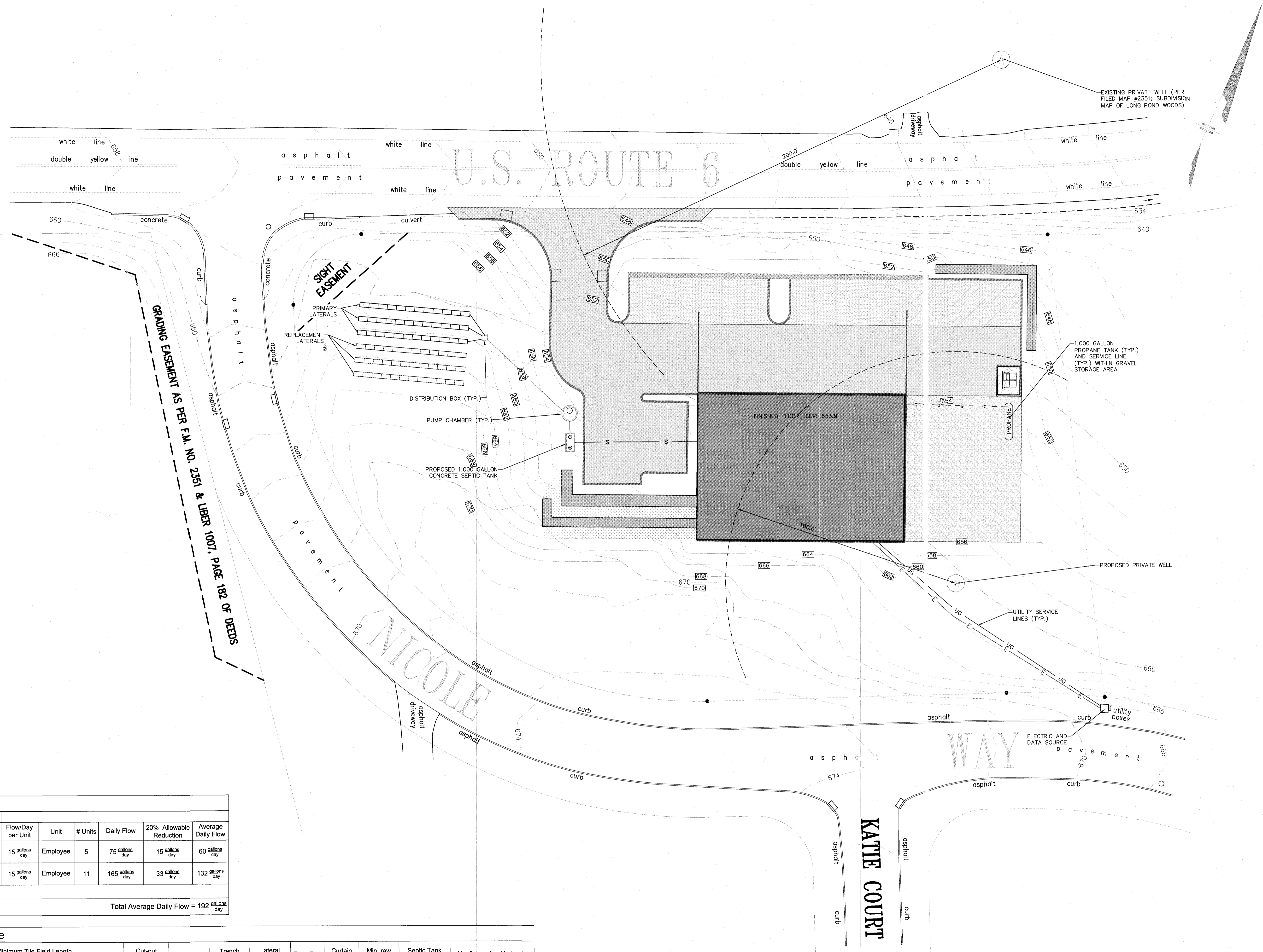
3 Van Wyck Lane
Suite 2
Wappingers Falls, New York 12590
(845) 223-3202

PROJECT: **14 Nicole Way**
Tax Map 65.01-1-22
Town of Caramel Putnam County, New York

Grading Plan		
SCALE: 1" = 20'	DRAWN BY: BJW	DRAWING NO: C-1
DATE: 01-25-20	CHECKED BY: MAD	1 of 9



Profile View: Proposed Driveway



GRADING EASEMENT AS PER F.M. NO. 2351 & LIBER 1007, PAGE 182 OF DEEDS

Sewage Design Flows						
Commercial Building						
Proposed Use	Flow/Day per Unit	Unit	# Units	Daily Flow	20% Allowable Reduction	Average Daily Flow
Garage	15 gallons/day	Employee	5	75 gallons/day	15 gallons/day	60 gallons/day
Office	15 gallons/day	Employee	11	165 gallons/day	33 gallons/day	132 gallons/day
				Total Average Daily Flow = 192 gallons/day		

Field Schedule											
Lot No.	Minimum Tile Field Length (Maximum of 192 gal./day)	Lateral Type	Cut-out System	Fill Required	Trench Width	Lateral Spacing	Drop Box	Curtain Drain	Min. raw Invert	Septic Tank Size	No. & Length of Laterals
Primary	138 Lineal Feet	Infiltrator	No	None	2'-0"	6'-0"	None	None	TBD	1,000	3 Lines @ 48 Feet
Expansion	138 Lineal Feet	Infiltrator	No	None	2'-0"	6'-0"	None	None	TBD	1,000	3 Lines @ 48 Feet

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2018-419	License No. 069646

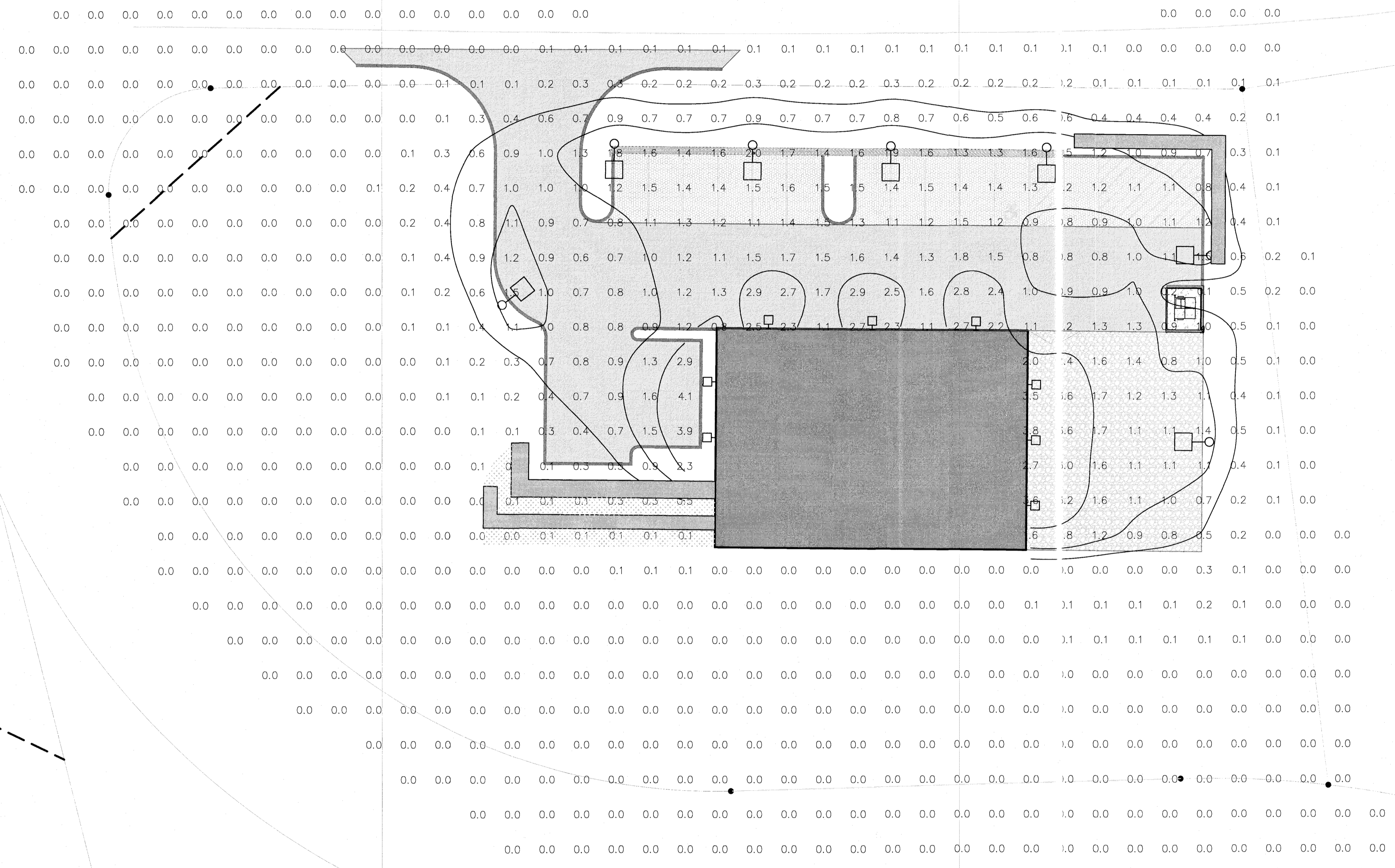
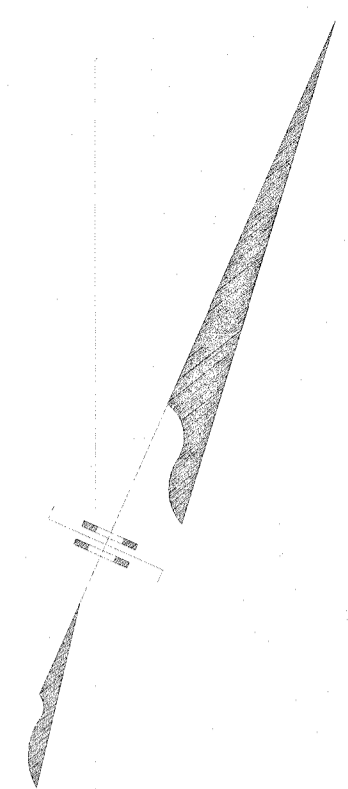
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14 Nicole Way
Tax Map 65.01-1-22
Town of Caramel Putnam County, New York

Utility Plan

SCALE 1" = 20'	DRAWN BY BJW	DRAWING NO. C-2
DATE 01-25-20	CHECKED BY MAD	1 of 9



GENERAL PHOTOMETRIC SCHEDULE

AVERAGE FOOT-CANDLES	0.37
MAXIMUM FOOT-CANDLES	4.1
MINIMUM FOOT-CANDLES	0.0
MINIMUM TO MAXIMUM FC RATIO	0.00
MAXIMUM TO MINIMUM FC RATIO	4.09 / 0.00
AVERAGE TO MINIMUM FC RATIO	0.37 / 0.00
AVERAGE TO MAXIMUM FC RATIO	0.09

LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	LAMP	DESCRIPTION	LUMENS / LAMP	BALLAST	MOUNTING	MODEL	VOLTS	QUANTITY
Pole Mount		(1) 3,000K LED	Howard Lighting Products L400 Series Street and Area Light	2427	ELECTRONIC	POLE	L401L-25W-40K-T4	120V 1P 2W	7
Wall Mount		(1) 5,000K LED	Howard Lighting Products Medium Wall Pack (MWP)	2360	ELECTRONIC	WALL	MWP-5028R-LED-MV	120V 1P 2W	8

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03-03-2020	
Revised	02-19-2020
Project No.	2018.419 License No. 069646

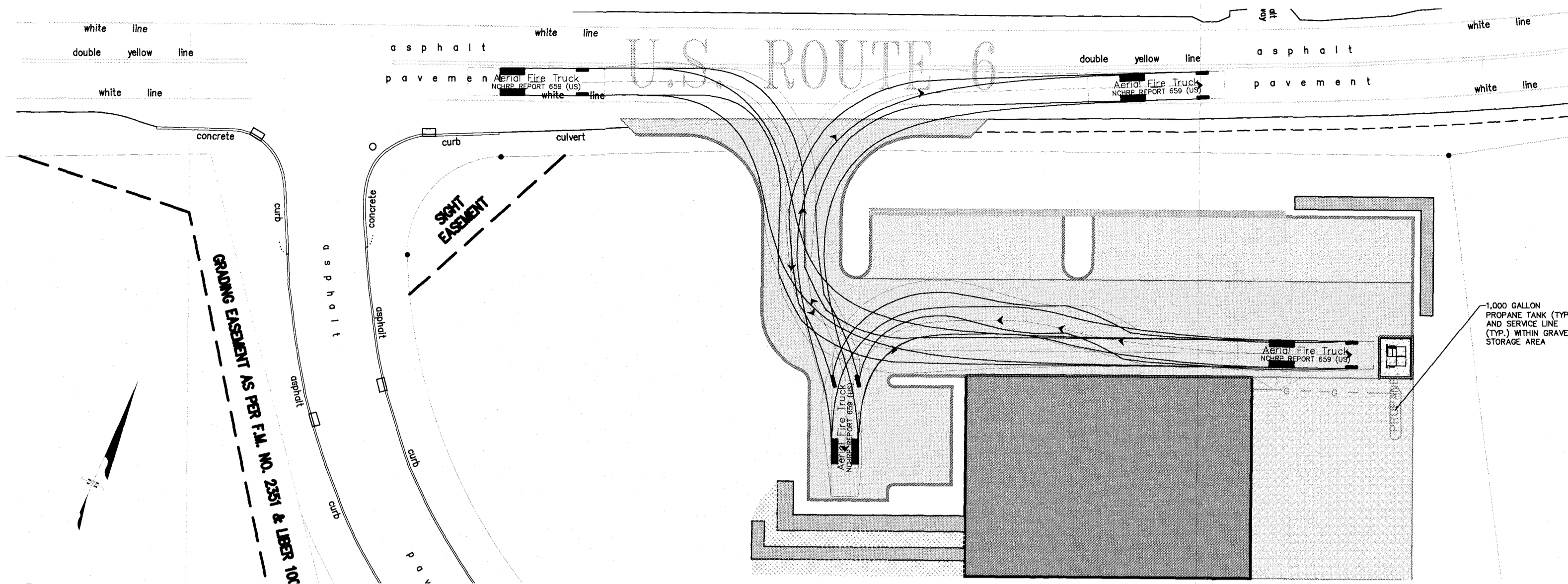
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Wappingers Falls, New York 12590
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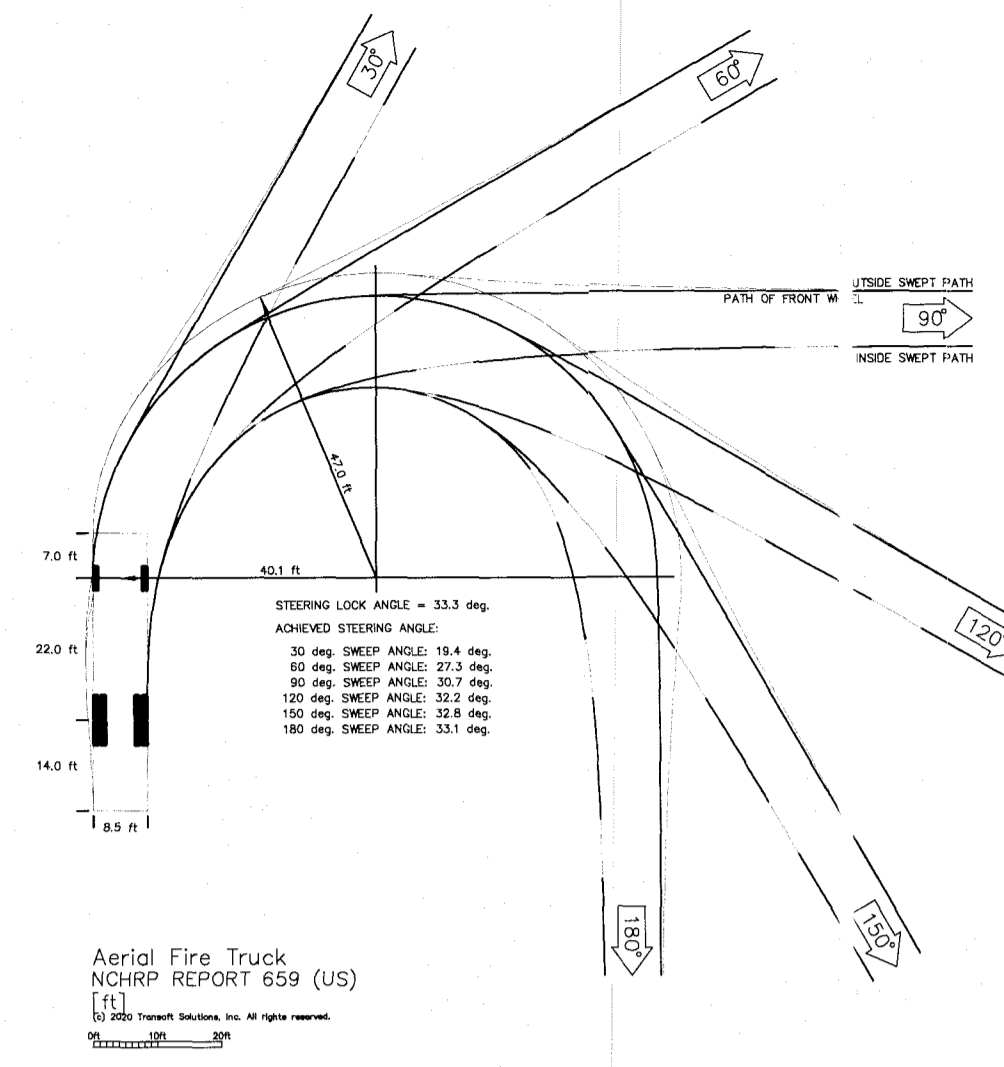
PROJECT
14 Nicole Way
Tax Map 65.01-1-22
Town of Caramel Putnam County, New York

DRAWING
Lighting Plan

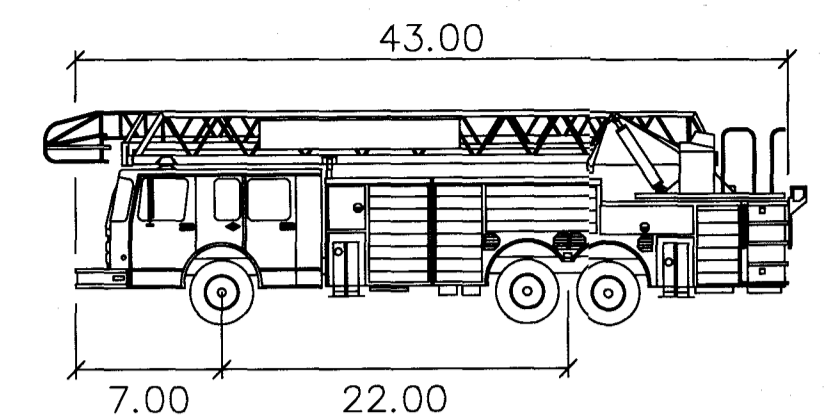
SCALE 1" = 20'	DRAWN BY BJW	DRAWING NO. C-3 3 of 9
DATE 01-25-20	CHECKED BY MAD	



1 FIRE APPARATUS MOVEMENT
1" = 30'

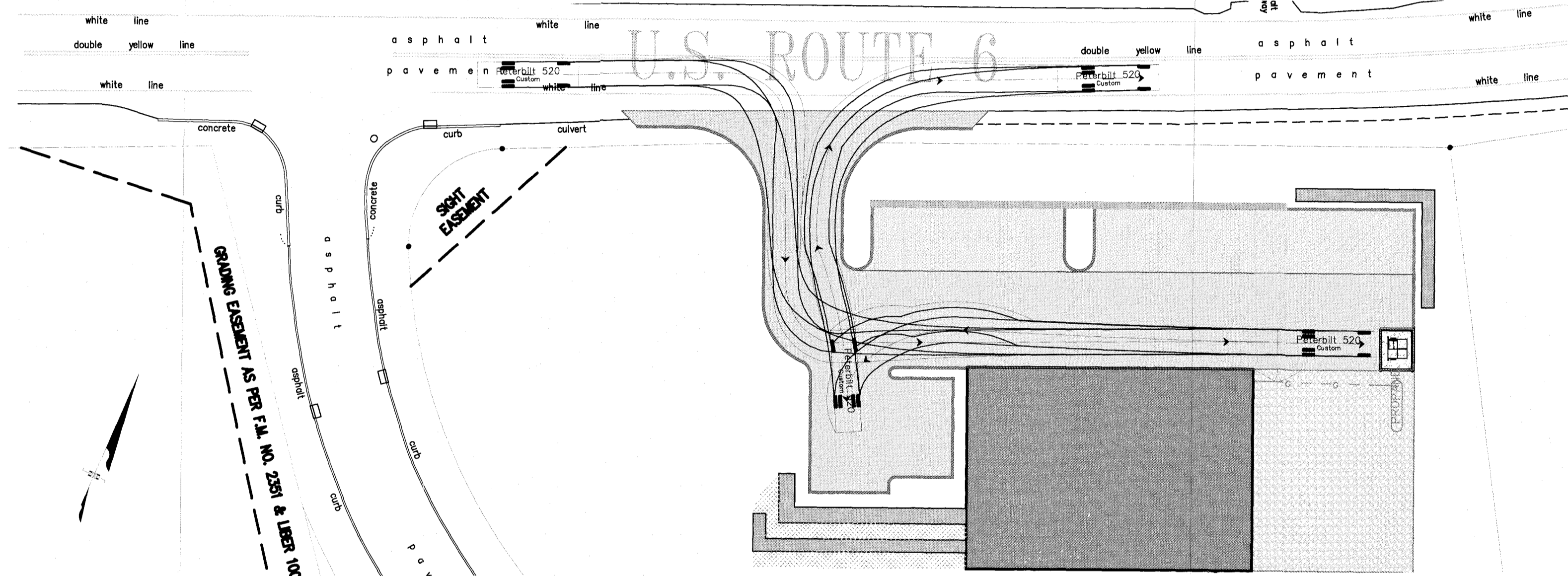


2 FIRE APPARATUS TEMPLATE
1" = 30'

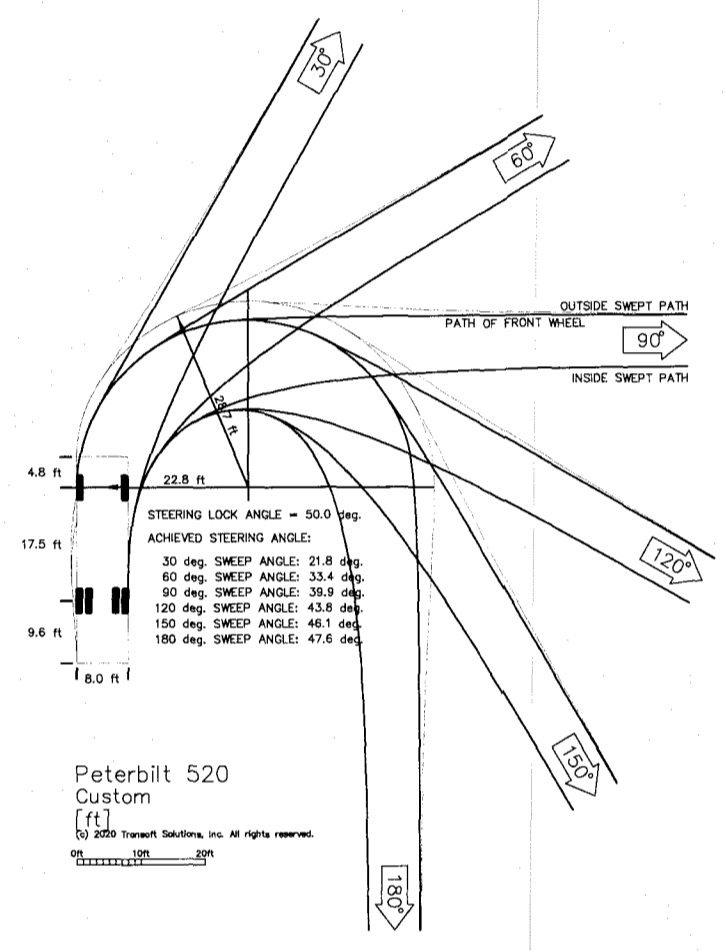


Aerial Fire Truck
feet
Width : 8.50
Track : 8.50
Lock to Lock Time : 6.0
Steering Angle : 33.3

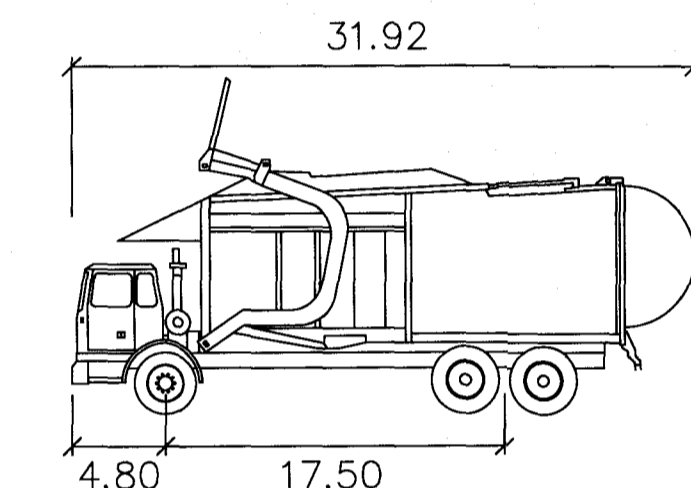
3 FIRE APPARATUS TEMPLATE
N.T.S.



4 REFUSE TRUCK MOVEMENT
1" = 30'



5 REFUSE TRUCK TEMPLATE
1" = 30'

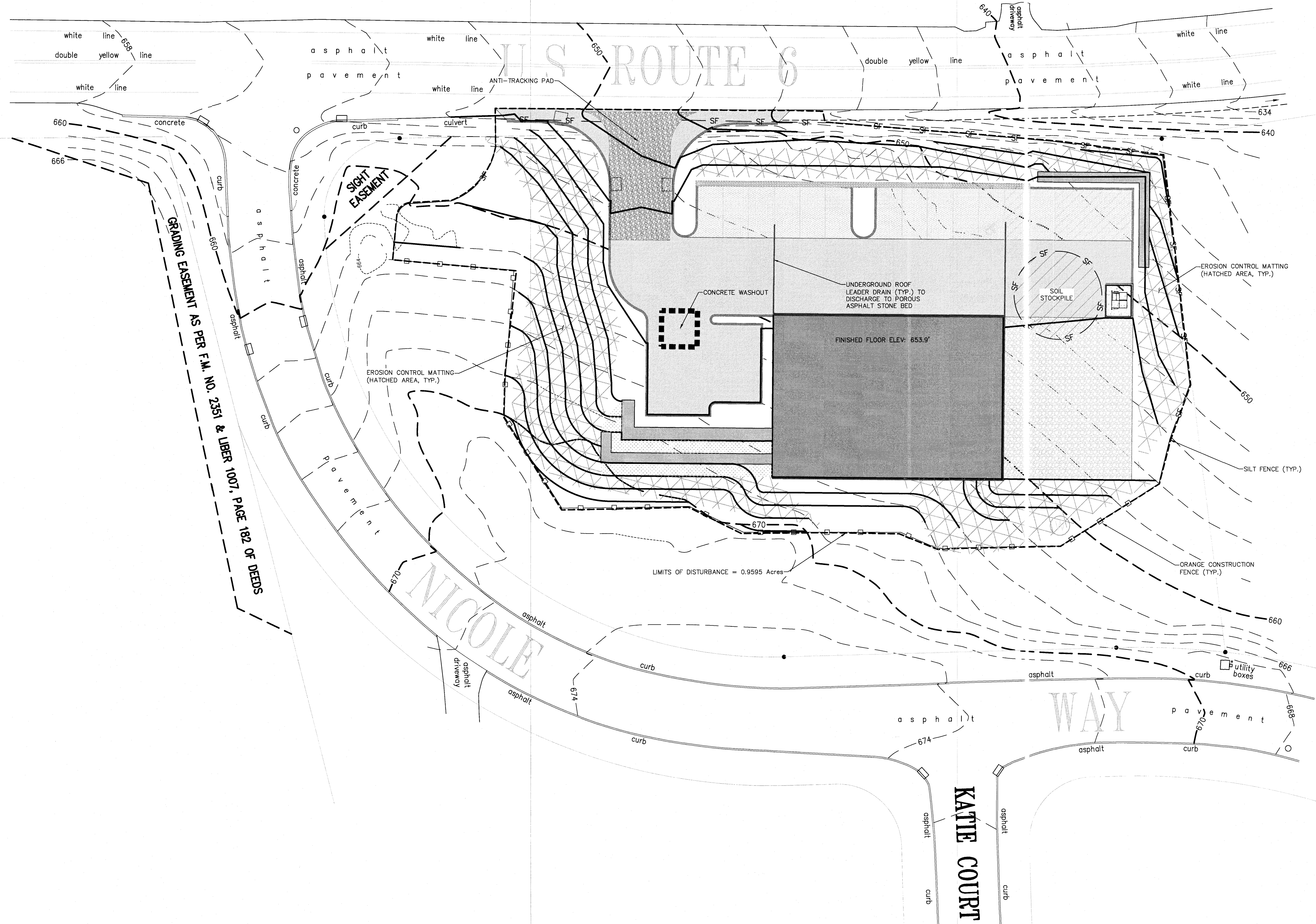


Peterbilt 520
feet
Width : 8.01
Track : 8.00
Lock to Lock Time : 6.0
Steering Angle : 50.0

6 REFUSE TRUCK PROFILE
N.T.S.

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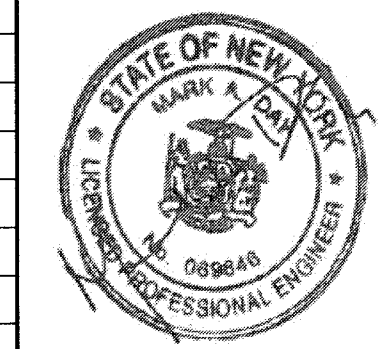
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02-19-2020	
Project No. 2018.419	License No. 069646
DAY STOKOSA ENGINEERING P.C.	
3 Van Wyck Lane Suite 2 Wappingers Falls, New York 12590 (845) 223-3202	
14 Nicole Way Tax Map 65.01-1-22 Town of Caramel Putnam County, New York	
Vehicle Movement Plan	
SCALE: 1" = 30'	DRAWN BY: BJW
DATE: 01-25-20	CHECKED BY: MAD
C-4 4 of 9	



GRADING EASEMENT AS PER F.M. NO. 2351 & LIBER 1007, PAGE 182 OF DEEDS

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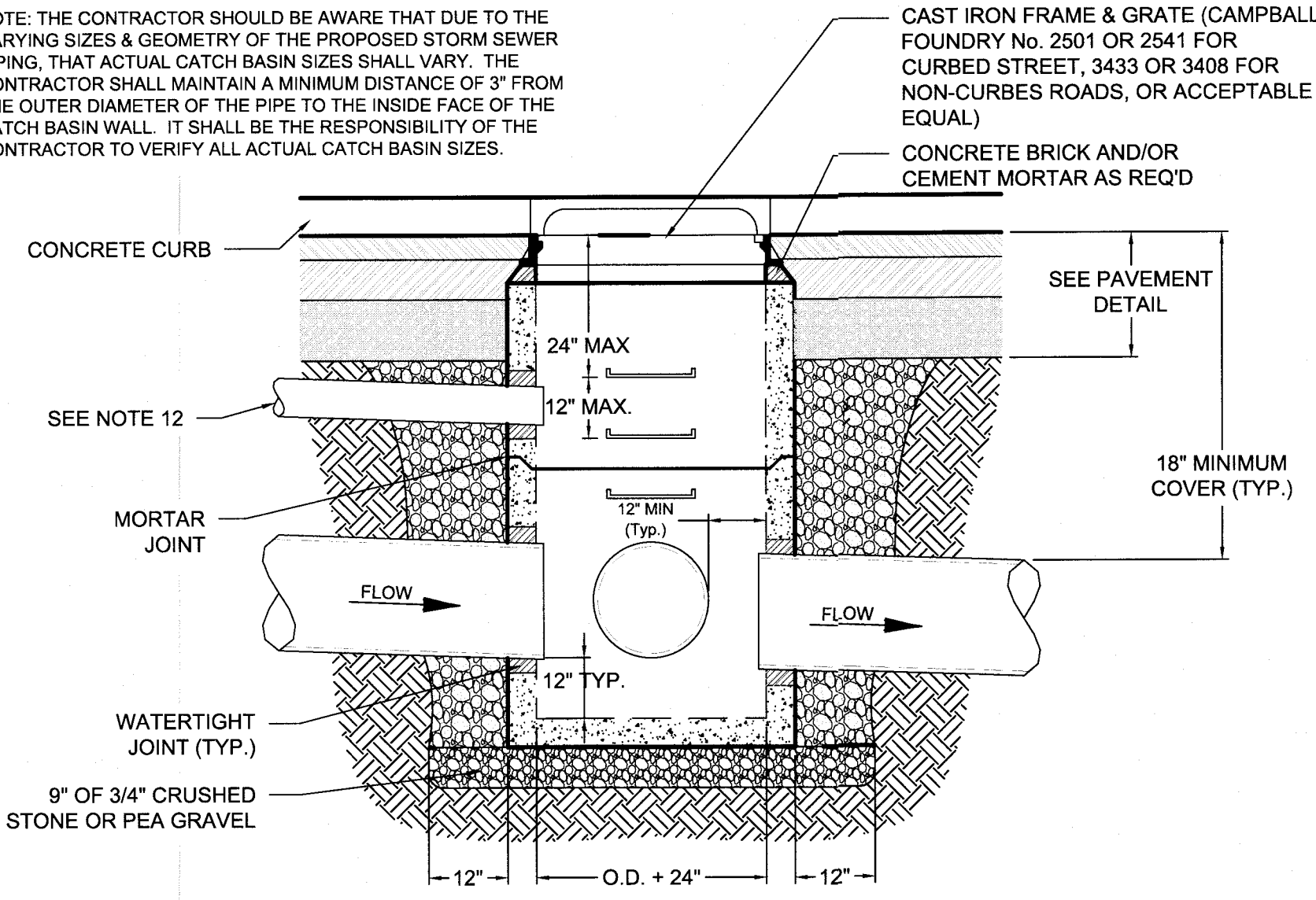
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14 Nicole Way
Tax Map 65.01-1-22
Town of Caramel Putnam County, New York

Erosion & Sediment Control Plan

SCALE 1" = 20'	DRAWN BY BJW	DRAWING NO. C-5
DATE 01-25-20	CHECKED BY MAD	5 of 9

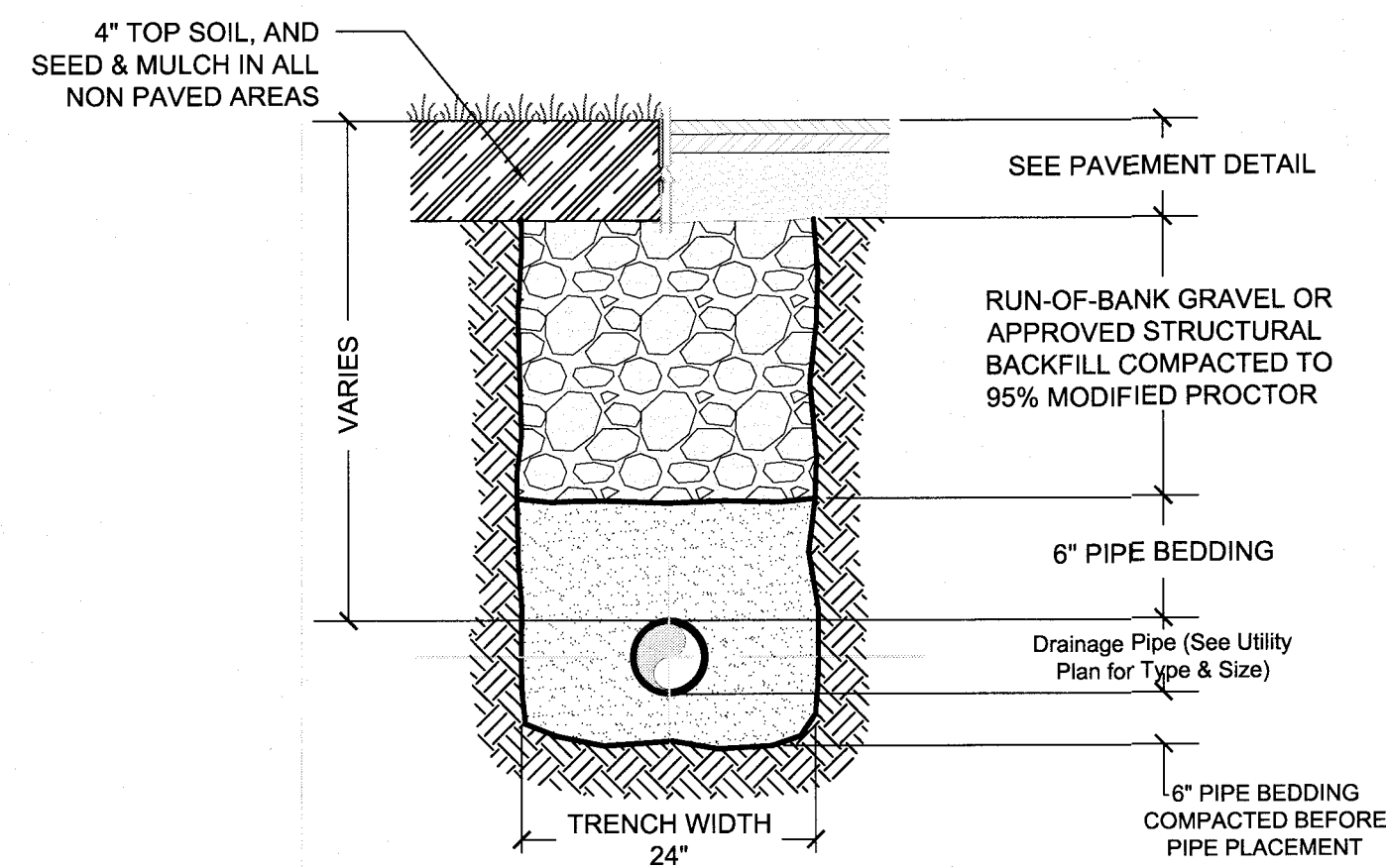
NOTE: THE CONTRACTOR SHOULD BE AWARE THAT DUE TO THE VARYING SIZES & GEOMETRY OF THE PROPOSED STORM SEWER PIPING, THAT ACTUAL CATCH BASIN SIZES SHALL VARY. THE CONTRACTOR SHALL MAINTAIN A MINIMUM DISTANCE OF 3" FROM THE OUTER DIAMETER OF THE PIPE TO THE INSIDE FACE OF THE CATCH BASIN WALL. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL ACTUAL CATCH BASIN SIZES.



- CONSTRUCTION NOTES:**
1. THE TOP OF THE PIPES TO BE SET AT EQUAL ELEVATIONS WHEN INLET PIPE IS SMALLER THAN OUTLET PIPE.
 2. POLYPROPYLENE STEEL REINFORCED PLASTIC STEPS AS SUPPLIED BY M.A. INDUSTRIES, OR EQUAL, TO BE SET EVERY 12" TO BOTTOM OF CATCH BASIN.
 3. FRAME AND GRATE TO MEET OR EXCEED H-20 LOADING.
 4. ALL PIPES SHALL BE INSTALLED FLUSH WITH THE INSIDE WALL OF THE CATCH BASIN AND GROUTED IN PLACE ON BOTH THE INSIDE AND OUTSIDE FACE OF THE BASIN.
 5. BRICK FRAME AND GRATE TO GRADE MATCH BOTH CROWN OF ROAD AND SLOPE OF ROAD. A MAXIMUM OF TWO TIERS OF CONCRETE BRICKS OR ONE 6" SOLID CONCRETE BLOCK SHALL BE PERMITTED. RISERS SHALL BE PARGED BOTH INSIDE AND OUTSIDE.
 6. BASE AND RISER SECTIONS SHALL BE INTEGRALLY CAST.
 7. INSIDE DIMENSIONS SHALL REMAIN CONSTANT FROM TOP TO BOTTOM AND SHALL MATCH THE FRAME OPENING OF THE GRATE.
 8. THE BASINS SHALL CONFORM TO ASTM C-478 SPECIFICATIONS AND SHALL HAVE A MIN. 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
 9. PROVIDE PROPER ANCHORING IN CASES OF HIGH GROUNDWATER TO PREVENT FLOATATION.
 10. ALL BASINS WITH A TOTAL DEPTH OF GREATER THAN 8'-0" SHALL HAVE A MIN. WALL THICKNESS OF 8".
 11. LADDER RUNGS TO BE PROVIDED FOR CATCH BASINS IN EXCESS OF 4'-0" TOTAL DEPTH (TOP TO BOTTOM OF SUMP).
 12. DRAINS TO CONNECT TO STORM SEWER SYSTEM WHENEVER POSSIBLE UNLESS OTHERWISE STATED IN THE APPROVED PLANS.
 13. SHOP DRAWINGS TO REFLECT KNOCKOUTS OR OPENING SIZES INDICATIVE OF OUTSIDE PIPE DIAMETER FOR VARIOUS PIPE SIZES AND LOCATIONS WHERE PIPE(S) DO NOT MEET BASIN AT RIGHT ANGLES.

1 PRE CAST CONCRETE DROP INLET

NOT TO SCALE

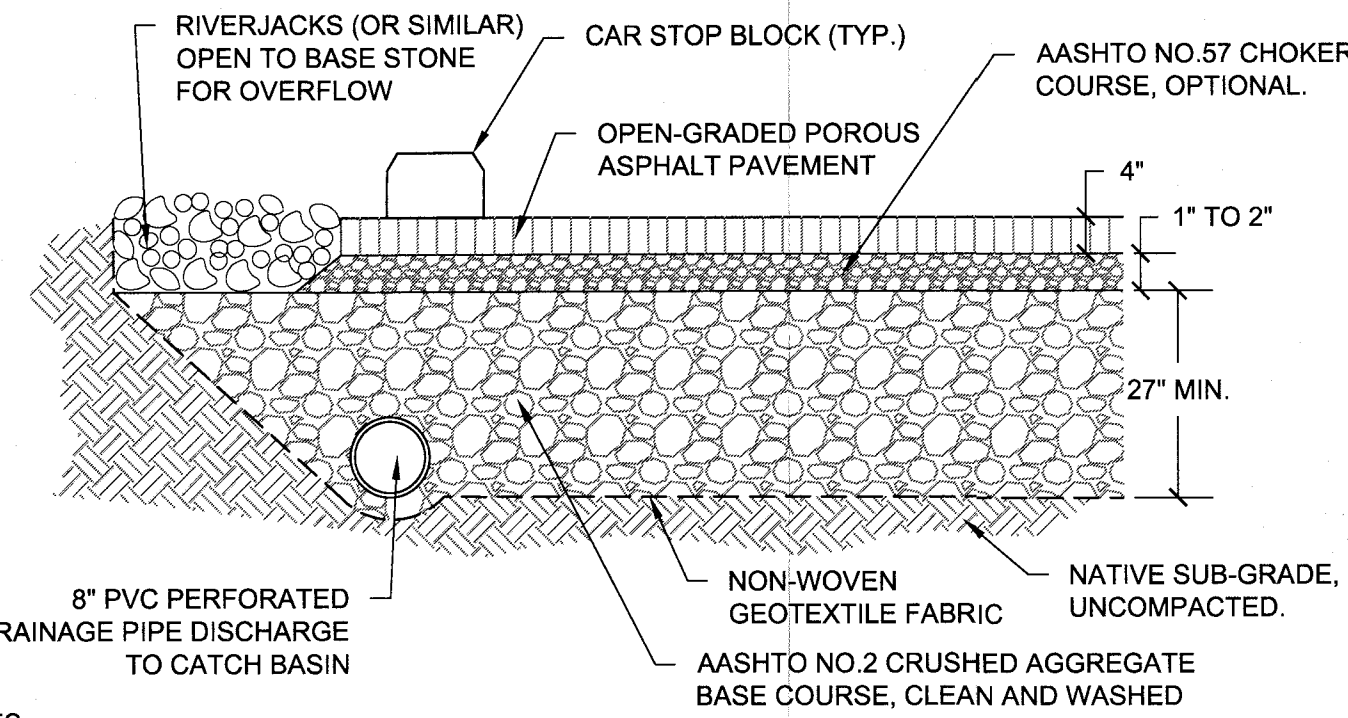


NOTES:

1. FILL OR BACKFILL MATERIAL SHALL BE DEPOSITED IN 12" LIFTS. EACH LIFT SHALL BE COMPACTED TO 95% STANDARD PROCTOR PRIOR TO THE PLACEMENT OF THE NEXT LIFT.
2. BACKFILLING AROUND PIPES SHALL BE DONE UNIFORMLY ON EACH SIDE OF THE PIPE. BACKFILL MATERIAL SHALL BE 1-1/2" MINUS GRADATION.
3. ALL SITE UTILITIES ARE TO BE INSTALLED BY A QUALIFIED CONTRACTOR & INSPECTED BY THE DESIGN ENGINEER PRIOR TO BACKFILLING.
4. IN THE EVENT THAT THE CONDUIT IS BEING INSTALLED IN WET CONDITIONS, THE CONTRACTOR SHALL LINE THE TRENCH WITH FILTER FABRIC & BED THE PIPE IN 3/4" CRUSHED STONE INSIDE THE FILTER FABRIC.
5. BACKFILL MATERIAL SHALL BE FREE FROM ORGANICS, BOULDERS, FROZEN SOILS OR OTHER DELETERIOUS MATERIAL.

3 TRENCHING DETAIL

NOT TO SCALE



NOTES:

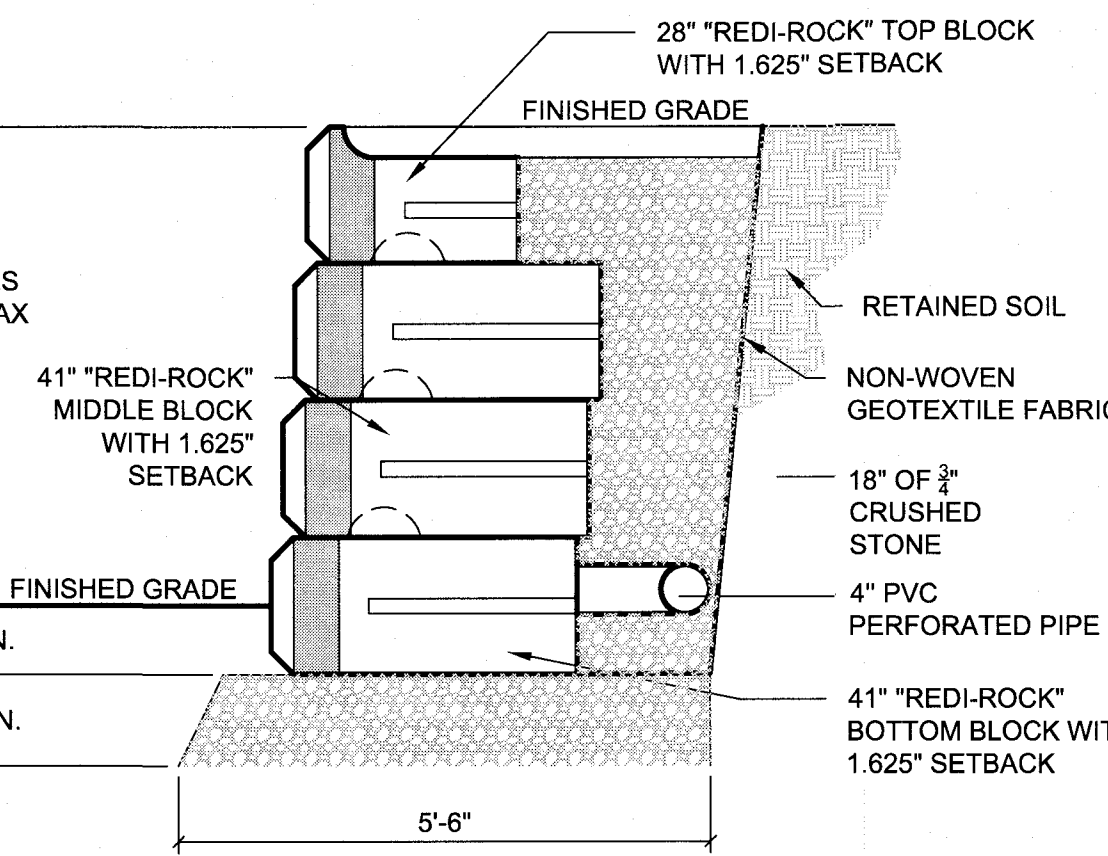
1. SUBGRADE MUST HAVE ADEQUATE BEARING CAPACITY AND BE SUITABLE FOR INFILTRATION, DO NOT COMPACT.
2. IF THE NATIVE SOIL HAS BEEN EXPOSED TO RAINFALL DURING EXCAVATING TO THE BOTTOM OF THE FACILITY, HAND RAKE THE SURFACE TO A DEPTH OF 3" TO RESTORE INFILTRATION CAPACITY.
3. AGGREGATE BASE COURSE SHALL BE DELIVERED CLEAN (2% WASH LOSS) AND WASHED ON-SITE TO REDUCE WASH LOSS TO 0.5%. THIS MAY BE DONE BY HOISING THE ROCK OFF WHILE STILL IN THE DELIVERY TRUCK OR AFTER STOCKPILING. HOSE OFF AS NEEDED AS THE PILE DIMINISHES SINCE FINES WILL MIGRATE TO LOWER LEVELS OF THE PILE.
4. AGGREGATES MUST BE PROPERLY COMPACTED TO PROVIDE A STABLE SURFACE SUCH THAT THE BASE ROCK WILL NOT ROLL AND CAUSE A WAVY APPEARANCE IN FINISHED PAVED SURFACE.
5. CHOKER COURSE IS OPTIONAL AND HELPS TO "LOCK IN" THE LARGER BASE COURSE AND STABILIZE THE SURFACE FOR ROLLING. THIS COURSE MAY BE FIELD DETERMINED IF REQUIRED AND IS TYPICALLY 1-2 INCHES IN DEPTH.
6. No. 2 STONE MAY BE REPLACED WITH No. 3 OR No. 4 STONE FOR THE SUBBASE.
7. POROUS ASPHALT PAVEMENT SHALL BE A BITUMINOUS MIX, 1/2" INCH NOMINAL MAXIMUM AGGREGATE SIZE, 16-20% AIR Voids AND DRAINDOWN LESS THAN 0.3%.

4 POROUS ASPHALT (LOCATION AS PER SITE PLAN)

NOT TO SCALE

2 TIERED GRAVITY RETAINING WALL (TOTAL HEIGHT 10FT)

NOT TO SCALE

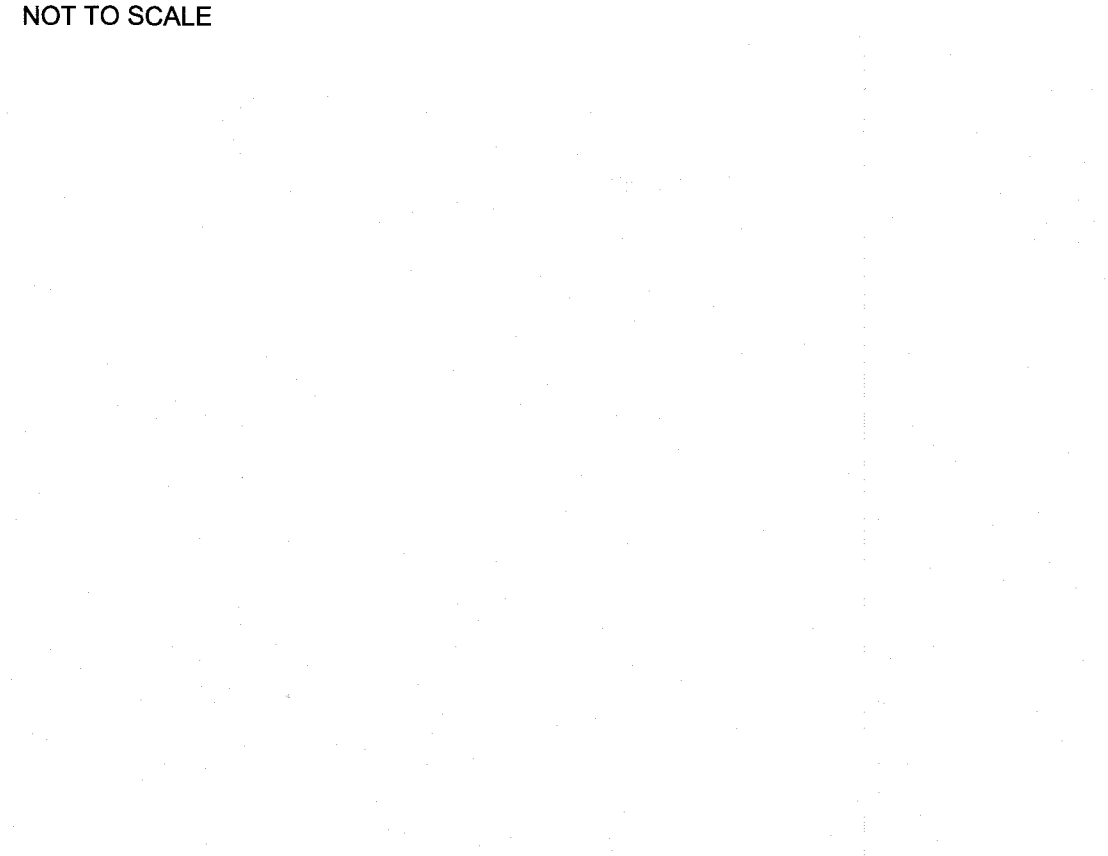


NOTES:

1. THE CONTRACTOR SHALL VERIFY WALLS BASED ON ACTUAL FIELD CONDITIONS AND GRADING. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ACTUAL QUANTITIES OF MATERIALS REQUIRED FOR INSTALLATION.
2. UNSUITABLE SOILS IN THE FOUNDATION SHALL BE REMOVED AND REPLACED WITH 3/4" CRUSHED STONE. THIS INCLUDES ANY FROZEN SOILS PRESENT AT THE TIME OF INSTALLATION.
3. THE REDI-ROCK WALL UNITS SHALL HAVE A MIN. 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
4. THE BASE STONE SHALL BE A 12" THICK BED OF 3/4" CRUSHED STONE. THE BASE STONE SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR DENSITY (ASTM D698).

5 GRAVITY RETAINING WALL (HEIGHT LESS THAN 4 FT)

NOT TO SCALE

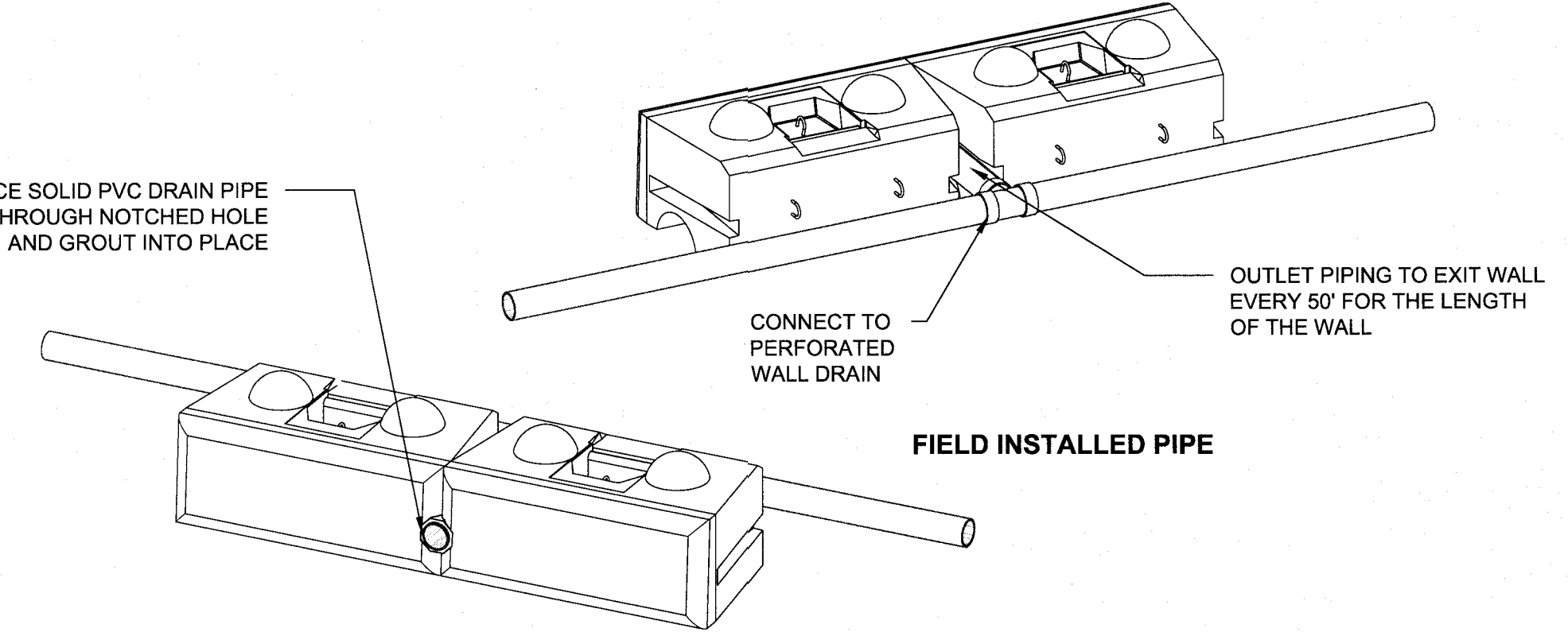


NOTES:

5. THE FIRST COURSE OF BOTTOM BLOCK SHALL BE PLACED ON THE STONE BASE AND CHECKED FOR LEVEL AND ALIGNMENT PRIOR TO INSTALLING SUBSEQUENT LAYERS OF BLOCK.
 6. SWEEP ALL EXCESS MATERIAL FROM THE TOP OF THE BLOCK PRIOR TO INSTALLING THE NEXT LAYER OF BLOCK.
 7. THE RETAINED BACKFILL SHALL BE AS FOLLOWS:
- | SIEVE SIZE | % PASSING |
|------------|-----------|
| 2" | 100 |
| 3/4" | 100-75 |
| No. 4 | 0-100 |
| No. 200 | 0-35 |
8. ENSURE THAT EACH COURSE IS COMPLETELY INSTALLED, BACKFILLED AND COMPACTED PRIOR TO INSTALLING SUBSEQUENT LAYERS OF BLOCK.

9. BACKFILL SHALL BE PLACED WITH A MAXIMUM DEPTH OF 8" LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY (ASTM D698).
10. ONLY HAND-OPERATED COMPACTION EQUIPMENT SHALL BE ALLOWED WITH 3" OF THE BACK SURFACE OF THE CONCRETE BLOCK.
11. ACTUAL BLOCKS USED AND REQUIRED INCLUDING SPECIALTY BLOCKS (HALF BLOCK, PLANTER, GARDEN, ETC.) VARY TO ACCOMMODATE ACTUAL WALL AND GRADING AND PROVIDE TOP OF WALL FINISH.
12. MAXIMUM WALL EXPOSURE SHALL BE 4 FEET IN HEIGHT. THIS MAY BE ACCOMPLISHED THROUGH VARYING THE DEPTH OF THE BOTTOM COURSE OF REDI-ROCK OR APPROPRIATE GRADING OF THE SURROUNDING AREA. A COURSE MAY BE FULLY BURIED IF CONDITIONS WARRANT TO ACCOMMODATE THE HEIGHT OF THE INDIVIDUAL BLOCKS.

PLACE SOLID PVC DRAIN PIPE THROUGH NOTCHED HOLE AND GROUT INTO PLACE



FIELD INSTALLED PIPE

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSONS TO ALTER THESE PLANS, SPECIFICATIONS, OR REPORTS IN ANY WAY, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR.

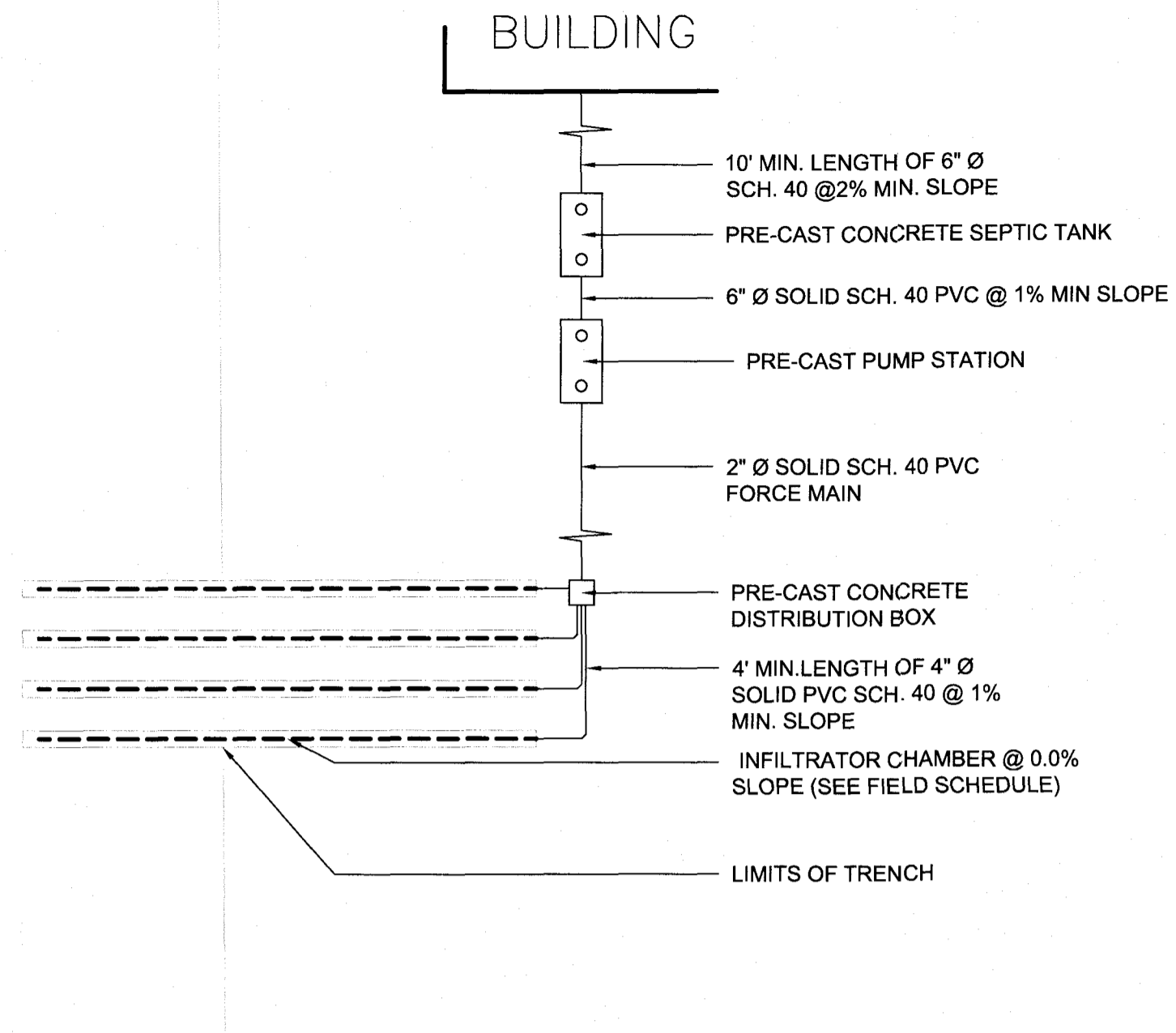
Mark A. Day, PE	
09-29-2020	
08-05-2020	
07-23-2020	
04-08-2020	
03-16-2020	
03-03-2020	
02-19-2020	
2018-419	License No. 069646

DAY STOKOSA
ENGINEERING P.C.

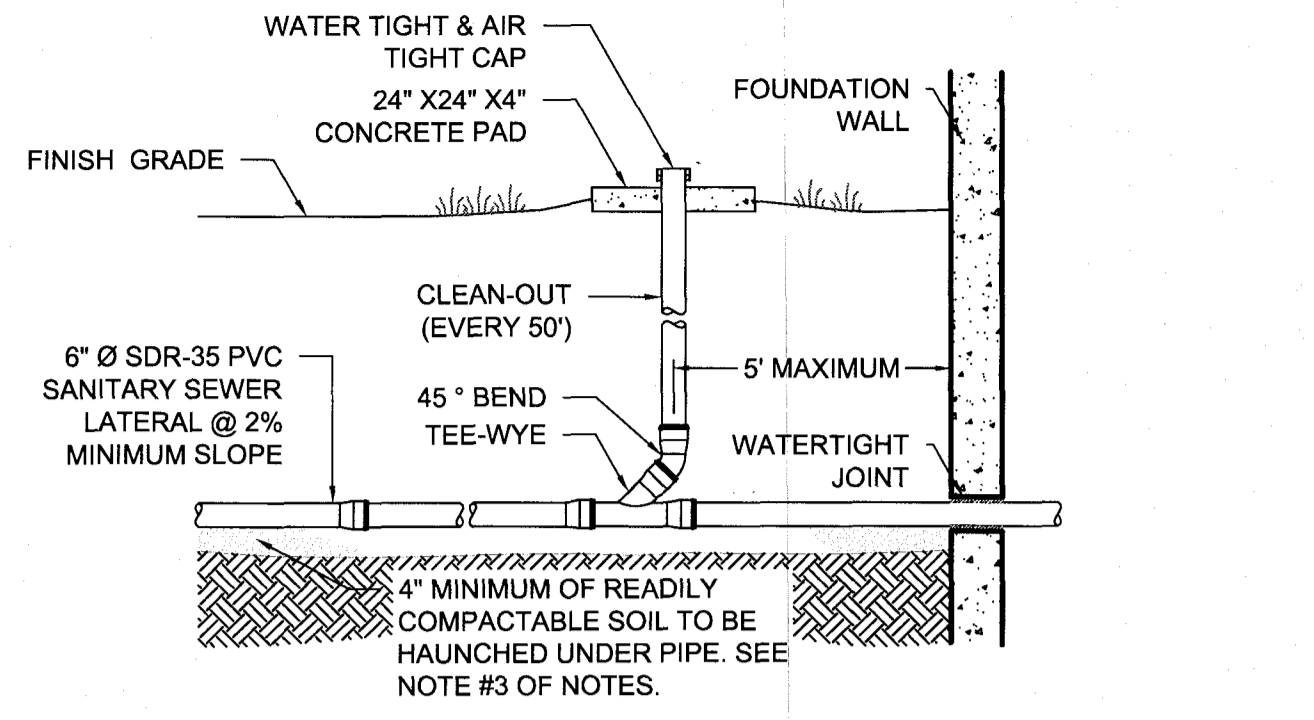
3 Van Wyck Lane
Suite 2
Wappingers Falls, New York 12590
(845) 223-3202

14 Nicole Way
Tax Map 65.01-1-22
Town of Caramel Putnam County, New York

Site Details		
SCALE	DRAWN BY	DRAWING NO.
N.T.S.	BJW	D-1
DATE	CHECKED BY	
01-25-20	MAD	6 of 9

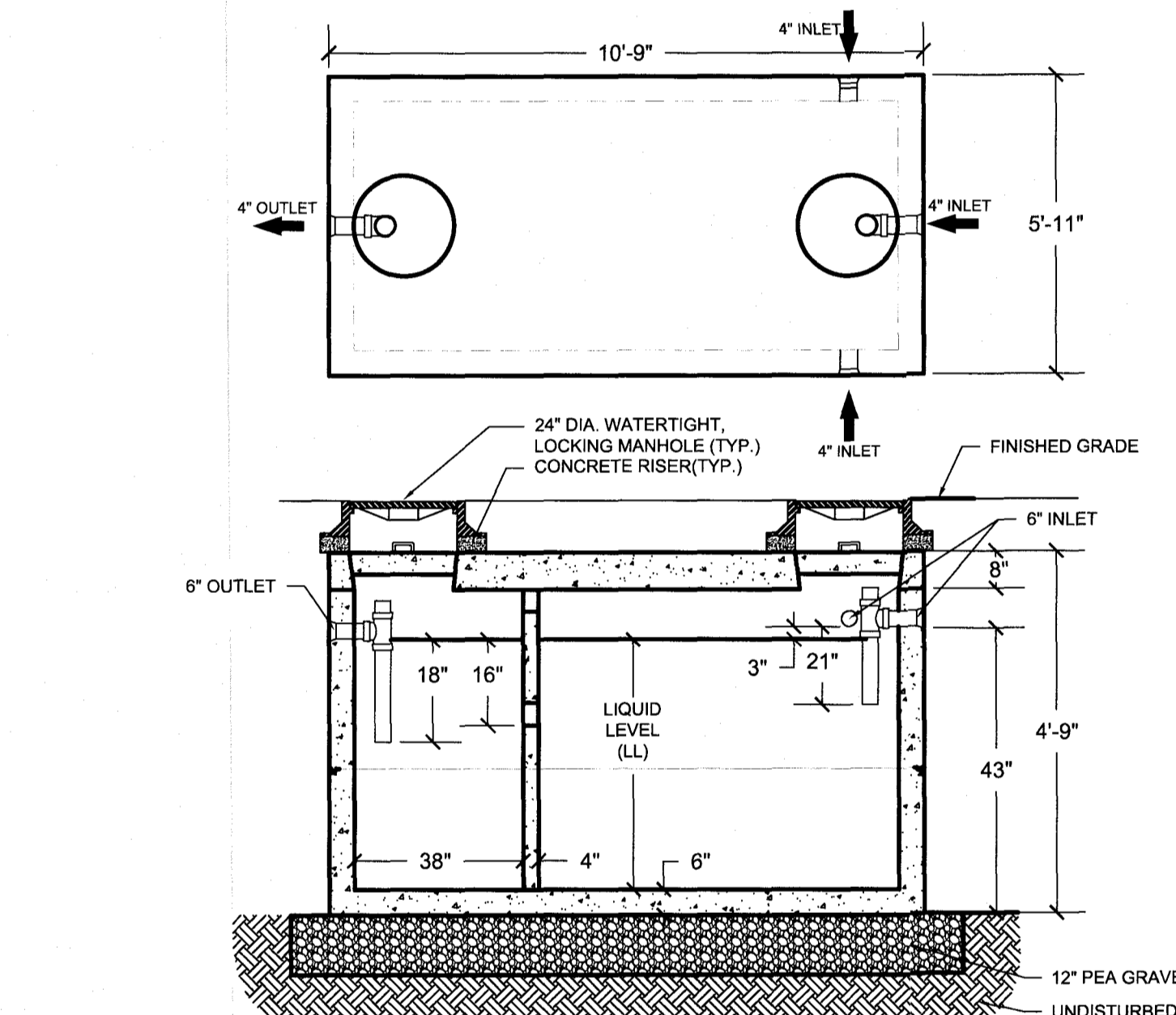


1 TYPICAL LIFT STATION OWTS
NOT TO SCALE



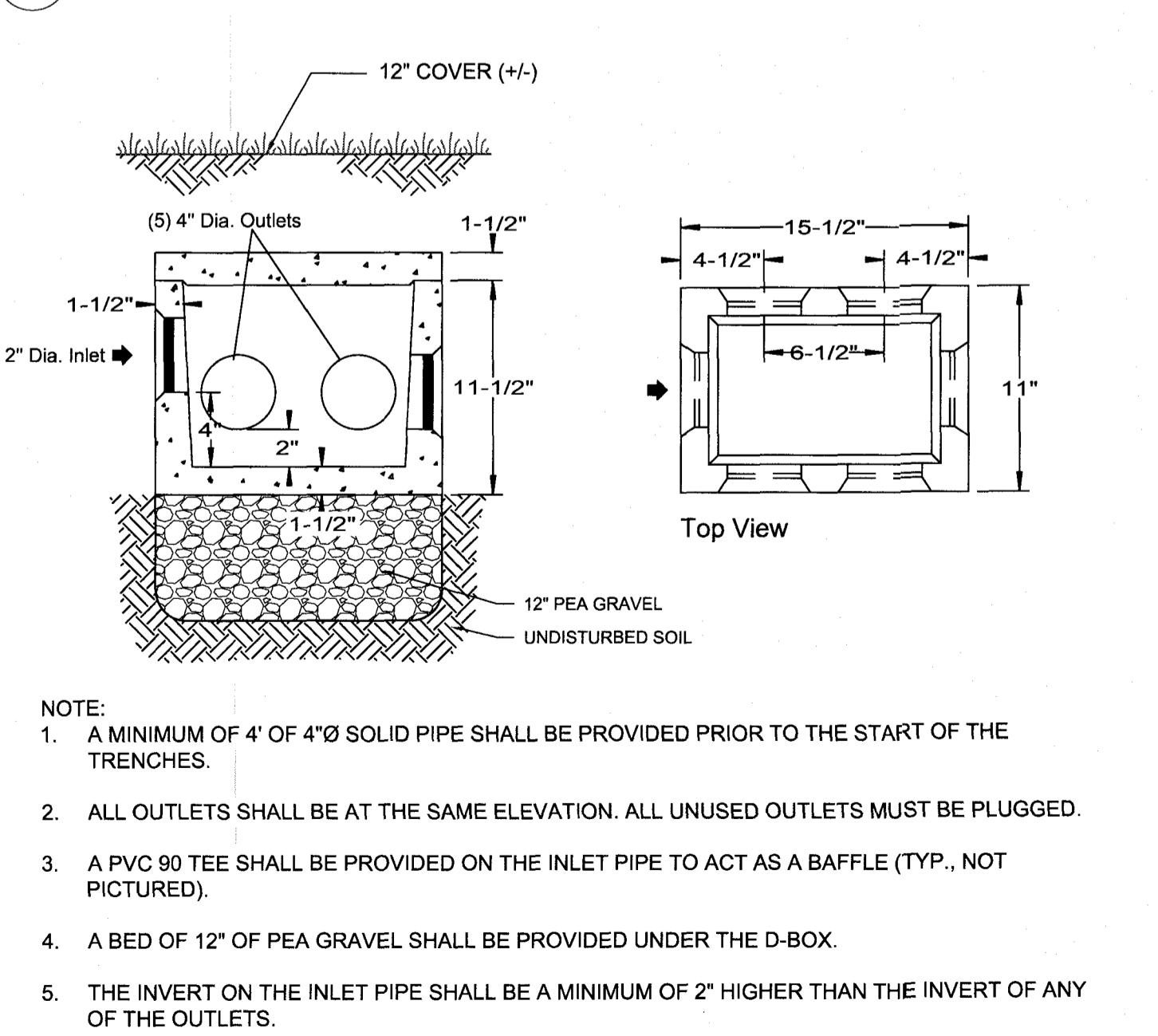
- NOTE:**
1. A 10' MINIMUM SEPARATION DISTANCE SHALL BE MAINTAINED BETWEEN THE SEWER LATERAL AND THE WATER SERVICE LINE.
 2. THE SEWER LATERAL PIPING SHALL BE SDR-35 PVC AT 2% MIN. SLOPE. ALL JOINTS TO BE "BELL & SPIGOT" TYPE.
 3. THE MATERIAL IMMEDIATELY SURROUNDING THE PIPE TO BE READILY COMPACTABLE SOIL (SAND, LOAMY SAND OR LOAMY CLAY), FREE OF FROZEN LUMPS, DEBRIS, OR STONES LARGER THAN 3/4". THE PIPE SHALL BE BACK-FILLED IN 6" MAXIMUM LIFTS TO A FINAL COMPACTION OF 85%.
 4. A METAL DETECTION TAPE SHALL BE INSTALLED OVER THE SEWER LATERAL TO FACILITATE FUTURE LOCATION.
 5. ALL SITE SANITARY SEWER UTILITIES ARE TO BE INSTALLED BY A TOWN LICENSED PLUMBER OR QUALIFIED CONTRACTOR, IN ACCORDANCE WITH THE TOWN PLUMBING CODE & INSPECTED BY THE SEWER DEPARTMENT PRIOR TO BACKFILLING.
 6. CLEAN-OUTS TO BE INSTALLED AT A MAXIMUM DISTANCE OF 50', AND AT ANGLE FITTINGS AND BENDS.
 7. EMBEDMENT OF LATERALS SHALL BE THE SAME AS THE MAINS.

2 TYPICAL BUILDING SANITARY SEWER LATERAL DETAIL
NOT TO SCALE

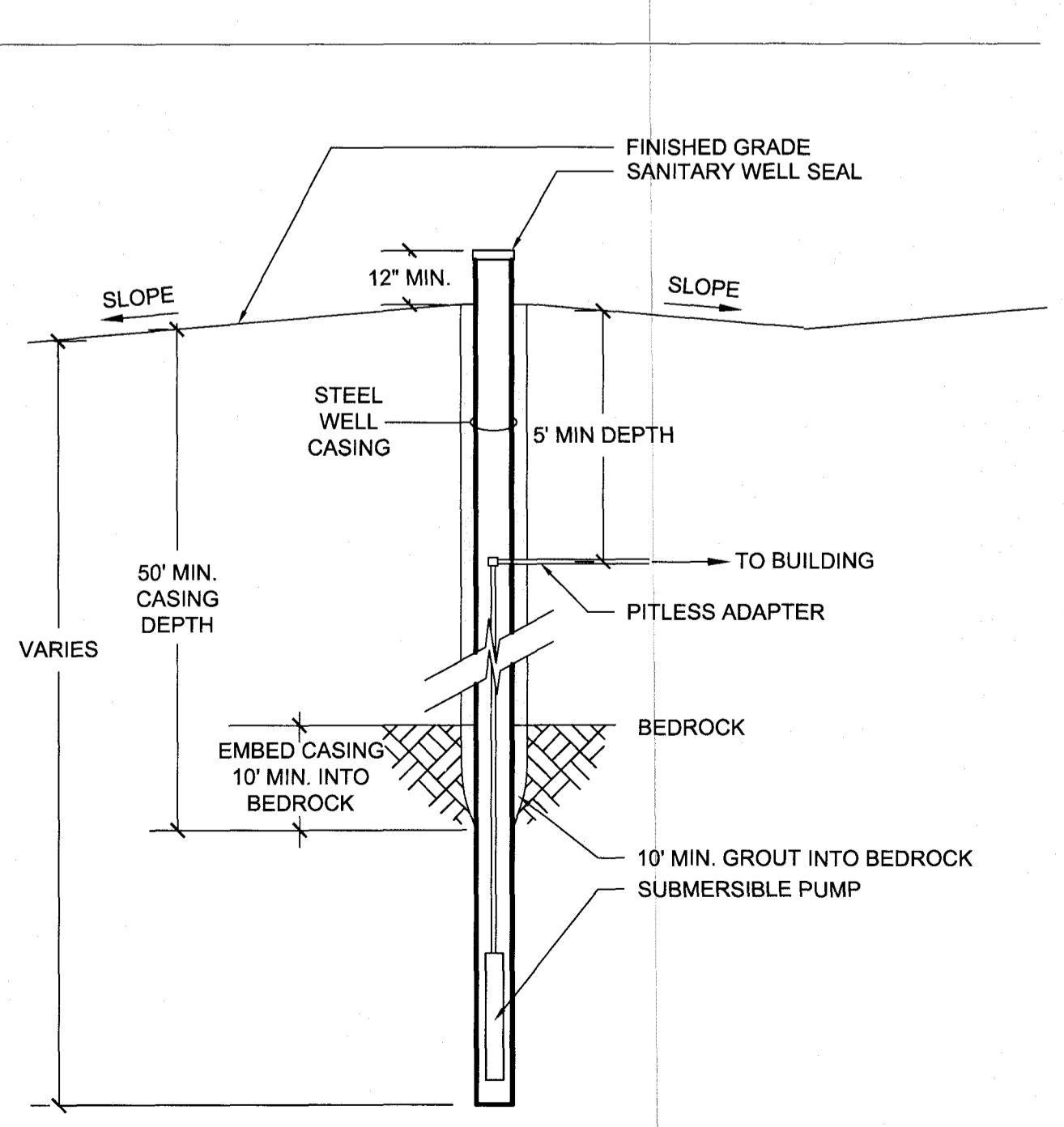


3 TRAFFIC DUTY SEPTIC TANK
NOT TO SCALE

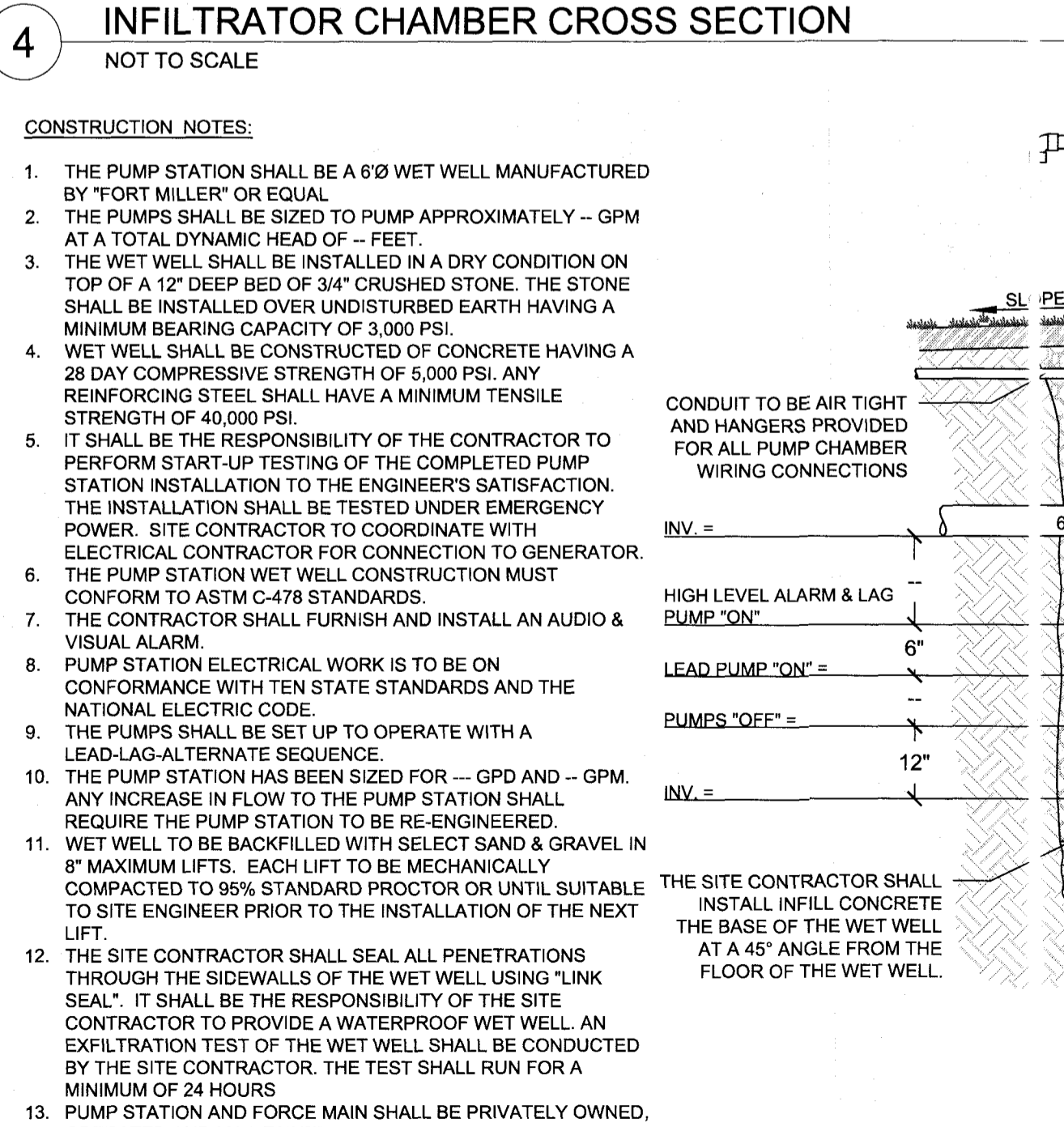
- NOTES:**
1. THE CONTRACTOR SHALL SEAL PENETRATIONS IN THE TANK SO THAT THE TANK IS WATERTIGHT.
 2. THE TANK SHALL BE CONSTRUCTED FROM CONCRETE WHICH SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT A STANDARD 28 DAY COMPRESSIVE TEST.
 3. #4 & #5 REBAR SHALL BE USED AS REINFORCEMENT FOR THE TANK.
 4. TWO-PIECE TANKS SHALL BE SEALED WITH A BUTYL GASKET OR AS PER THE MANUFACTURER'S RECOMMENDATIONS.
 5. THE CONTRACTOR SHALL SEAL THE JOINT BETWEEN THE TOP OF THE TANK & THE CAST IRON FRAME WITH A BUTYL SEALANT.
 6. THE CONTRACTOR SHALL SEAL THE CONCRETE MANHOLES WITH A COAT OF BITUMASTIC SEALANT APPLIED TO THE SEAT OF THE MANHOLE.
 7. THE FINISHED GRADE AROUND THE MANHOLE OPENINGS SHALL ENSURE THAT WATER WILL FLOW AWAY FROM THE LID.
 8. IF TANK IS SEGMENTED, CONTRACTOR SHALL PERFORM A HYDROSTATIC TEST ON THE TANK UPON INSTALLATION AND PRIOR TO BACKFILLING, BY OF FILLING THE TANK TO THE BOTTOM OF THE CONCRETE LID WITH WATER AND VERIFYING THAT NO APPRECIABLE LOSS OCCURS DURING A 24 HOUR PERIOD. A NYS LICENSED PROFESSIONAL ENGINEER SHALL VERIFY IN WRITING TO THE DUTCHESS COUNTY DEPARTMENT OF HEALTH THE RESULTS OF THE HYDROSTATIC TEST.
 9. THE FRAME & GRATE SHALL BE LOCKING, VANDAL PROOF WATERTIGHT LID.
 10. TANK SHALL BE HS20-44 + 30% / ASTM C857 (H20 TRAFFIC LOADING RATED)



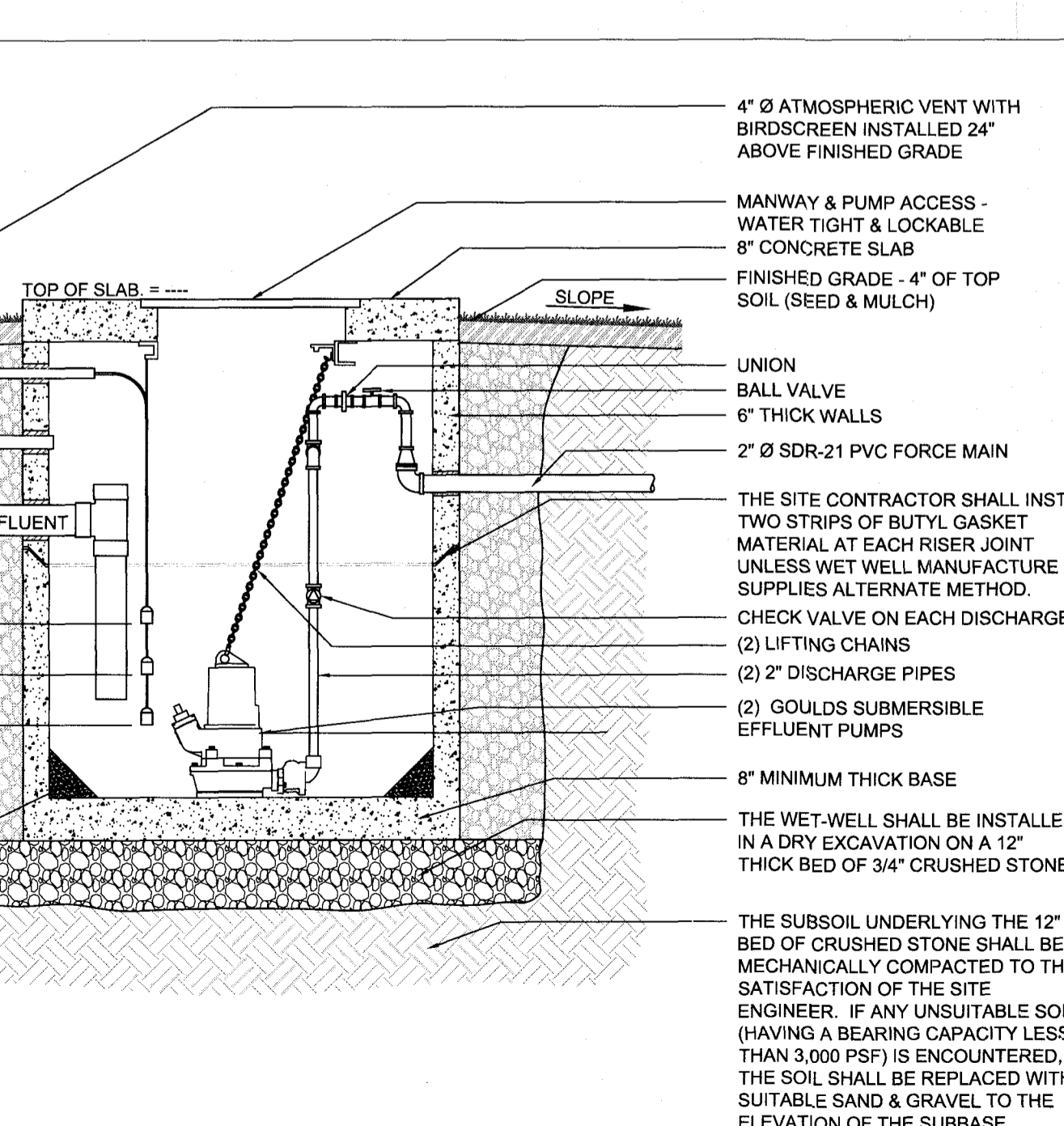
4 INFILTRATOR CHAMBER CROSS SECTION
NOT TO SCALE



5 5-OUTLET DISTRIBUTION BOX
NOT TO SCALE



6 WELL DETAIL
NOT TO SCALE



7 PUMP STATION DETAIL
NOT TO SCALE

The Quick4® Equalizer 36 Chamber

Quick4 Equalizer 36 with MultiPort EndCap

The Quick4® Equalizer 36 Chamber fits in a 24" wide trench and is ideal for curved or straight systems. It features the patent-pending Contour Swivel Connection™ which permits turns up to 15°, right or left. The MultiPort™ endcap allows multiple piping options and eliminates pipe fittings. The chamber's four-foot length provides optimal installation flexibility.

Chamber Benefits:

- Advanced contouring connections swivel up to 15°, right or left.
- Latching mechanism allows for quick installation
- Compact nesting provides more trench length in an equivalent stack height
- Four-foot chambers are easy to handle and install
- The Quick4 Equalizer 36 Chamber supports wheel loads of 16,000 lbs/axle with only 12" of cover
- Certified by the International Association of Plumbing and Mechanical Officials (IAPMO)

MultiPort Endcap Benefits:

- Tear-out seals on inlet ports provide a tight fit to the pipe
- Six molded-in inlets/outlets allow for maximum piping flexibility
- Fits on either end of the Quick4 Equalizer 36 Chamber

Quick4 Series

Quick4 Equalizer 36 Chamber Specifications

Size	22"W x 53"L x 12"H (559 mm x 1346 mm x 305 mm)
Effective Length	48" (1219 mm)
Lower Height	10" (254 mm)
Storage Capacity	32 gal (121 L)
Invert Height	6" (152 mm)

APPROVED IN

Quick4 Series

Because installations are faster with Quick4 chambers, you save on heavy equipment operation and labor.

Quick4 Series

Quick4 Equalizer 36 Chamber

MultiPort EndCap

Typical Trench View

FRONT VIEW

SIDE VIEW

TOP VIEW

INFILTRATOR WATER TECHNOLOGIES, LLC (INFILTRATOR)

INFILTRATOR WATER TECHNOLOGIES, LLC STANDARD LIMITED DRAINED WARRANTY

The structural integrity of each chamber, endcap, Elbow, expansion polyethylene and/or other accessory manufactured by Infiltrator ("Units"), when installed and operated in accordance with the original manufacturer's instructions, is warranted for one year from the date that the specific system is installed by the installer. This warranty is provided for the original purchaser ("Holder") against defective materials and workmanship for one year from the date that the specific system is installed by the installer. However, if a septic permit is not required by applicable law, the warranty period will begin upon the date that installation of the specific system commences. To exercise this warranty, Holder must notify Infiltrator or writing of its Corporate Headquarters in Old Saybrook, Connecticut within fifteen (15) days of the alleged defect. Infiltrator will supply replacement Units for Units determined by Infiltrator to be covered by this Limited Warranty. Infiltrator's liability specifically excludes the cost of removal and/or installation of the Units.

BY THE LIMITED WARRANTY AND REMEDIES IN SUBPARAGRAPHS ABOVE EXCLUSIVE, THERE ARE NO OTHER WARRANTIES WITH RESPECT TO THE UNITS, INCLUDING NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

This Limited Warranty shall be void if any part of the chamber system is manufactured by anyone other than Infiltrator. This Limited Warranty does not extend to incidental, consequential, punitive or indirect damages, labor and materials, overhead costs, or other losses or expenses incurred by the Holder or any third party. Specifically excluded from Limited Warranty coverage are damages to the Units due to ordinary wear and tear, alteration, accident, misuse, abuse or neglect of the Units, the Units being subjected to vehicle traffic or other conditions which are not permitted by the Infiltrator instructions, failure to maintain the minimum ground cover set forth in the Infiltrator instructions, the placement of foreign materials into the system containing the Units, failure of the Units or the septic system due to improper siting or improper sizing, excessive water usage, improper sewage disposal, or improper operation of any other well and/or septic system. This Limited Warranty shall be void if the Holder fails to comply with all of the terms set forth in this Limited Warranty. Further, in no event shall Infiltrator be responsible for any loss or damage to the Holder, the Units, or any third party resulting from installation or placement of any product liability claims of Holder or any third party. For this Limited Warranty to apply, the Units must be installed in accordance with all site conditions required by state and local codes, all other applicable laws, and Infiltrator's installation instructions.

(b) No representative of Infiltrator has the authority to change or extend this Limited Warranty. No warranty applies to any party other than the original Holder. The above represents the standard Limited Warranty offered by Infiltrator. A limited number of states and counties have different warranty requirements. Any purchaser of Units should contact Infiltrator's Corporate Headquarters in Old Saybrook, Connecticut, prior to such purchase, to obtain a copy of the applicable warranty, and should carefully read that warranty prior to the purchase of Units.

4 Business Park Road
P.O. Box 796
Old Saybrook, CT 06475
800-577-7920 • Fax 800-577-7071
1-800-221-4436
www.infiltratorwater.com

U.S. Patent: 6,768,802; 6,917,011; 5,156,488; 5,261,077; 5,421,116; 6,071,426; 6,511,203; 6,715,102; 5,088,778; 5,208,844; Canadian Patent: 1,209,969; 2,056,584. Other patents pending.
Infiltrator, Equalizer, Quick4, and Equalizer are registered trademarks of Infiltrator Water Technologies, Inc. Infiltrator Water Technologies, Inc. is a registered trademark of Infiltrator Water Technologies.
Mark A. Day, PE is a registered Professional Engineer in the State of New York.
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Contact Infiltrator Water Technologies' Technical Services Department for assistance at 1-800-221-4436

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Prepared by	Mark A. Day, PE
Checked by	
Reviewed by	
Project No.	2018-419
License No.	069646

DAY STOKOSA
ENGINEERING P.C.

3 Van Wyck Lane
Suite 2
Wappingers Falls, New York 12590
(845) 223-3202

14 Nicole Way
Tax Map 65.01-1-22
Town of Carmel Putnam County, New York

Utility Details

SCALE	N.T.S.	DRAWN BY	BJW	DRAWING NO.	D-2
DATE	01-25-20	CHECKED BY	MAD		

7 of 9

HOWARD LIGHTING PRODUCTS L400 Series

L400 Series

L401/L402 Models
LED Street and Area Light

The L400 Series captures the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. The L400 Series is the better alternative for traditional street and area lighting with quick payback and improved performance.

Applications: Roadway, parking lots, walkways and general area spaces.

Warranty:

- Ten year limited warranty.

EPA: 0.5 ft² (0.05m²)
Weight: 8.8 lbs (4.0 kg)

Model	Options	Power	Color	Distribution	Control Options	Finish	Input Voltage
L401	No Photocell* LC: With Long Life Photocell	25W 40W 65W 80W 100W	30K: 3000K 40K: 4000K	T2: Type 2 T3: Type 3 T5: Type 5	10: 0-10V Dimming*	GR: Gray* WH: White BL: Black BR: Brown	M: 120-277VAC*

*Standard Configuration

Standard Features:

- Standard 7-Pin Photocell Receptacle (per ANSI C136.41)
- Stand-alone 10KV/10KA Surge Suppression Device (consult factory for 20KV / 20KA option)
- Terminal block accepts 14-6 AWG conductors (Line, Neutral, Ground) (consult factory for 600V, 85A, 14-2AWG terminal block)
- Two Bolt Mounting accommodates 1 1/4" NPS to 2" NPS horizontal tenon (pre-configured for 2" NPS)
- Integral Tilt-adjustment Steps ±5°
- Bird-guard
- Tooth-Less Entry
- Input Voltage: 120-277V, 50/60Hz
- Power Factor: > 0.9 at full load and Total Harmonic Distortion: < 20% at full load
- Ambient Operating Temperatures -40°C to +50°C

Ordering Information

Specifications subject to change without notice.

Howard Lighting Products | 580 Eastview Drive | Laurel, MS 39443
(toll free) 800.956.3456 | (direct) 601.422.0033 | (fax) 601.422.1652
www.HowardLightingProducts.com

HOWARD LIGHTING PRODUCTS L400 Series

L400 Series

L401/L402 Models
LED Street and Area Light

Performance Data

Lumen Output:

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data are considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end user environment and application. Actual wattage may differ by +/- 10%. Contact factory for performance data on any configurations not shown here.

Model	LEDs	Current	System Watts	Dist Type	30K (3000K,70CRI)				40K (4000K,70CRI)					
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
L401L	10	0.7 A	25 W	T2	2919	1	0	1	116	2825	1	0	1	113
				T3	2961	1	0	1	118	2866	1	0	1	115
				T5	2917	2	0	2	116	2824	2	0	2	113
		0.7 A	40 W	T2	5011	1	0	1	123	4852	1	0	1	121
				T3	5083	1	0	1	125	4706	1	0	1	118
				T5	4835	1	0	1	121	3741	1	0	1	96
	16	1.15 A	65 W	T2	5008	3	0	3	123	4744	3	0	3	119
				T3	6760	2	0	2	108	6714	2	0	2	103
				T5	6936	2	0	2	111	6889	2	0	2	106
		0.7 A	80W	T2	6807	1	0	1	109	6160	1	0	2	94
				T3	6729	3	0	3	108	6683	3	0	3	103
				T5	9316	2	0	2	116	9274	2	0	2	116
L402L	0.7 A	80W	T2	9450	2	0	2	118	9407	2	0	2	118	
			T3	9390	1	0	2	116	7431	1	0	2	94	
			T5	8990	3	0	3	112	8950	3	0	3	112	
	1.0 A	100W	T2	10461	3	0	3	112	10886	3	0	3	109	
			T3	10391	2	0	2	111	10813	2	0	2	108	
			T5	10548	2	0	2	113	9180	2	0	2	97	
T5	9681	4	0	4	103	10075	4	0	4	101				

Electrical Data:

Model	LEDs	LED Drive Current	System Watts	Operating Current (A)
L401L	10	700mA	25W	0.25
		750mA	40W	0.35
		1150mA	65W	0.55
L402L	28	850mA	80W	0.75
		1000mA	100W	0.85

Lumen Ambient Temperature (LAT) Multipliers:

Ambient	Lumen Multiplier
0°C	1.02
10°C	1.01
20°C	1.00
25°C	1.00
30°C	1.00
40°C	0.99

Certifications:

- cULus Listed
- Suitable for wet locations
- Certified to ANSI C136.31-2001, 3G vibration standards
- Surge suppression protection tested in accordance with IEEE/ANSI C82.41.2
- Precision molded optical assembly tested to IP65
- Meets FCC Part 15 standards for conducted and radiated emissions
- Luminaire finish tested to withstand 3,000 hours (per ASTM Standard B 117)
- RoHS compliant. Consult factory for additional details

Luminaire Lumen Maintenance Factors (LMF)

Data references the extrapolated performance projections for the platforms noted in 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM 21-11).

To calculate LMF, use the lumen maintenance factor that corresponds to the desired number of operating hours below.

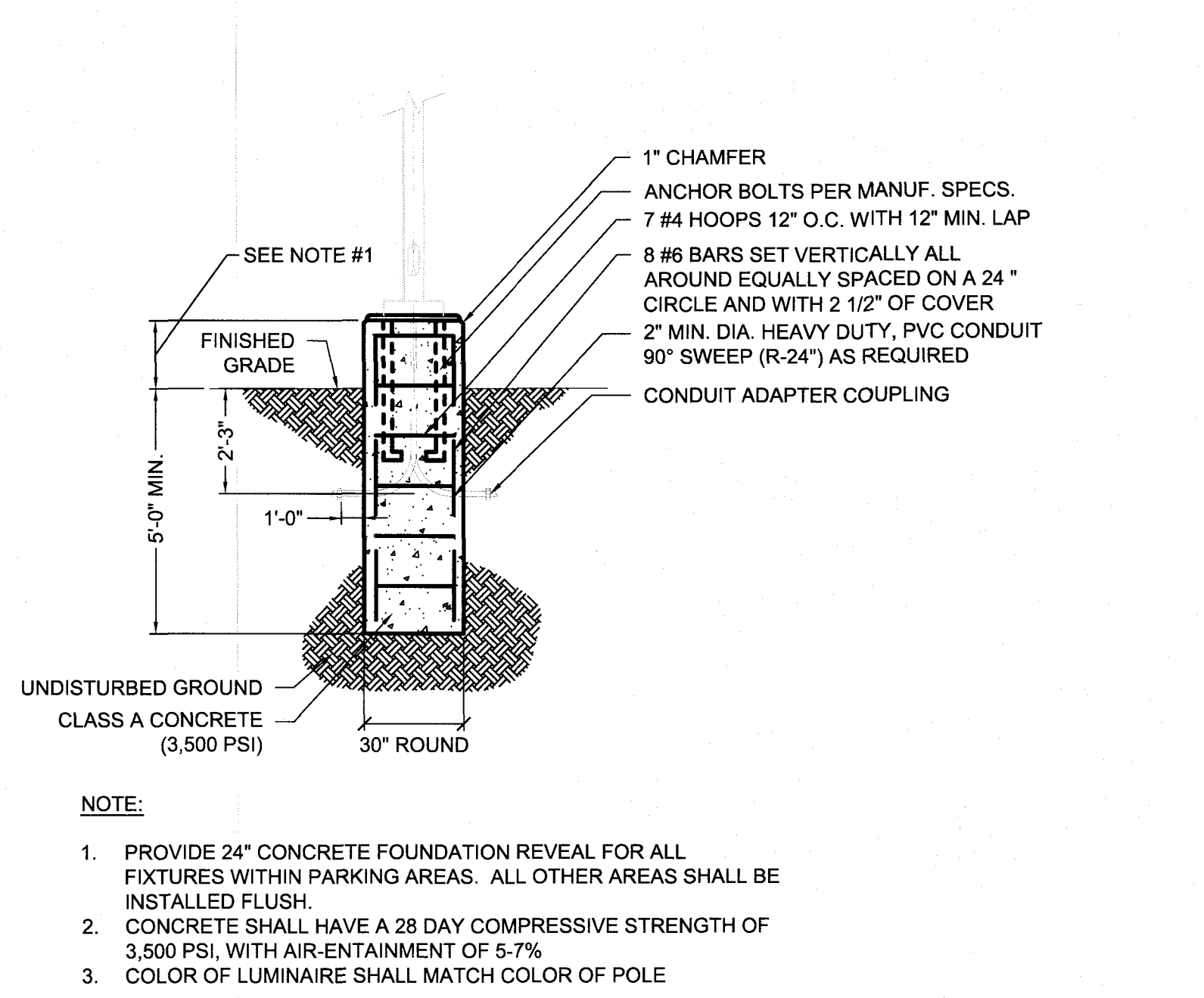
For other lumen maintenance values, contact factory.

Operating Hours	LMF
0	1.0000
10,000	0.92
20,000	0.85
30,000	0.8
40,000	0.75
50,000	0.7
60,000	0.65
70,000	0.6
80,000	0.55
90,000	0.5
100,000	0.45

Specifications subject to change without notice.

Howard Lighting Products | 580 Eastview Drive | Laurel, MS 39443
(toll free) 800.956.3456 | (direct) 601.422.0033 | (fax) 601.422.1652
www.HowardLightingProducts.com

1 POLE MOUNTED LIGHT FIXTURE MANUFACTURER CUT SHEET



3 LIGHT POLE BASE DETAIL NOT TO SCALE

2 WALL MOUNTED LIGHT FIXTURE MANUFACTURER CUT SHEET



3 LIGHT POLE BASE DETAIL NOT TO SCALE

HOWARD LIGHTING PRODUCTS Specification Sheet

MWP

Medium Wall Pack - LED

Features:

- Construction
 - One-piece die-cast aluminum housing and hinged, removable die-cast aluminum door
 - One-piece silicone gasket seals the optical chamber
 - Housing has a textured bronze finish
 - Borosilicate molded glass lens
 - 1/2" conduit access, sides, top, or rear knockouts
- Photocell adaptable and UL listed for wet locations
- LED driver and electrical components are mounted to the die-cast housing for optimal heat sinking and operating efficiency
- UL recognized integral LED electronic driver is Class 2 rated for 120-277V, 50/60Hz
- High output LEDs provide 80+ CRI in 5000 K CCT
- The LED system delivers, on average, 70% of lumen maintenance (L70) at 60,000 hours
- Suitable for ambient temperature up to 55°C (131°F)
- 5 Year warranty

Ordering Information Sample Model: MWP-5000R-LED-MV

Series	Color	Configuration	Factory Installed Options (y)
MWP	50	40R-LED-MV	(blank): No FIO
		28R-LED-MV	-M: Microwave Motion Sensor
		40R-LED-MV	
		55R-LED-MV	

28R-LED-MV: 2,360 Lumens, 22W
40R-LED-MV: 4,660 Lumens, 41W
55R-LED-MV: 5,490 Lumens, 51W

Note: Order with (M) for title 24 compliance in CA

Cross Reference Chart

Source	Watts	Model #	Input Watts	Power Factor
150W	185	MWP-5055R-LED-MV	51	72%
100W	129	MWP-5040R-LED-MV	41	65%
70W	91	MWP-5028R-LED-MV	22	76%

120V on Quad Tap Ballast

Accessories (sold separately)

Catalog #	Description
LCPCMV	LED compatible external stem & swivel mount electronic photocell*

*Please use LED compatible electronic components to maintain warranty.

Dimensions: 7.13 in. width, 2.29 in. height, 14.2 in. depth.

Applications: Ideal for parking facilities, entry ways, perimeter/pathway lighting for underpasses.

Proudly Assembled IN THE USA*

Online Resources

Specifications subject to change without notice.

Howard Lighting Products | 580 Eastview Drive | Laurel, MS 39443
(toll free) 800.956.3456 | (direct) 601.422.0033 | (fax) 601.422.1652
www.HowardLightingProducts.com

Page 1 of 2
Rev: 8/24/2018

HOWARD LIGHTING PRODUCTS Specification Sheet

MWP

Photometric Details

(Data shown for MWP-5055R model at 12ft. mounting height)

Illuminance at a Distance

Center Beam fc	Beam Width
338.9 fc	4.2 ft 3.3 ft
84.7 fc	8.5 ft 6.5 ft
37.7 fc	12.7 ft 9.8 ft
21.2 fc	17.0 ft 13.0 ft
13.6 fc	21.2 ft 16.3 ft
9.4 fc	25.5 ft 19.5 ft

Vert. Spread: 93.5°
Horiz. Spread: 78.3°

Performance - Lighting Facts

Light Output (Lumens)	Watts	Light Output (Lumens) per Watt (Efficacy)	Color Accuracy (CRI)
2362	21.97	109.55	83
4660	41.76	111.78	83
5494	51.23	107.24	83

Visit www.lightingfacts.com for the Label Reference Guide.

Specifications subject to change without notice.

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(toll free) 800.956.3456 | (direct) 601.422.0033 | (fax) 601.422.1652
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Page 2 of 2
Rev: 8/24/2018

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Mark A. Day, PE

09-29-2020
08-05-2020
07-23-2020
04-08-2020
03-16-2020
03-03-2020
02-19-2020

2018-419 License No. 069646

DAY STOKOSA
ENGINEERING P.C.

3 Van Wyck Lane
Suite 2
Wappingers Falls, New York 12590
(845) 223-3202

PROJECT: 14 Nicole Way
Tax Map 65.01-1-22
Town of Caramel Putnam County, New York

Lighting Details

SCALE: N.T.S. DRAWN BY: BJW CHECKED BY: MAD DATE: 01-25-20

DOWNLOAD: D-3 8 of 9

SPDES GENERAL PERMIT GP-0-15-002 COMPLIANCE NOTES:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE FOLLOWING:

1. THE CONTRACTOR AND HIS/HER SUBCONTRACTORS SHALL READ AND UNDERSTAND THE CONDITIONS OF THE "NYSDEC SPDES GENERAL PERMIT FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES", GP-0-15-002 FOR THIS PROJECT.
2. THE CONTRACTOR AND HIS/HER SUBCONTRACTORS SHALL SIGN A COPY OF THE GENERAL PERMIT, GP-0-15-002, CERTIFICATION STATEMENT AS IDENTIFIED IN THE APPENDICES OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
3. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS NECESSARY FOR THE WORK OUTLINED HEREIN.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF ALL STORMWATER POLLUTION PREVENTION MEASURES OUTLINED IN THE SWPPP AND PROJECT PLANS.
5. THE CONTRACTOR SHALL HOLD A PRECONSTRUCTION CONFERENCE WITH THE OWNER'S REPRESENTATIVES AT LEAST ONE WEEK PRIOR TO COMMENCEMENT OF CONSTRUCTION.
6. THE CONTRACTOR/OWNER SHALL HAVE A QUALIFIED PROFESSIONAL, AS DEFINED WITHIN THE NYSDEC SPDES GENERAL PERMIT GP-0-15-002, CONDUCT AN INITIAL SITE ASSESSMENT PRIOR TO CONSTRUCTION FOLLOWING THE COMMENCEMENT OF CONSTRUCTION AT LEAST EVERY 7 CALENDAR DAYS. REFER TO SWPPP FOR INSPECTION GUIDELINES.
7. PRIOR TO COMMENCEMENT OF CONSTRUCTION, A QUALIFIED PROFESSIONAL (HIRED BY CONTRACTOR OR OWNER) SHALL CONDUCT AN ASSESSMENT OF THE SITE AND CERTIFY THAT THE APPROPRIATE EROSION AND SEDIMENT CONTROL STRUCTURES AS DEPICTED ON THE PLANS HAVE BEEN ADEQUATELY INSTALLED AND IMPLEMENTED. CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER ONCE THE EROSION AND SEDIMENT CONTROL STRUCTURES HAVE BEEN INSTALLED. REFER TO SWPPP FOR INSPECTION GUIDELINES.
8. THE OWNER/OPERATOR SHALL MAINTAIN A RECORD OF ALL EROSION AND SEDIMENT CONTROL INSPECTION REPORTS AT THE SITE IN A LOG BOOK. THE SITE LOG BOOK SHALL BE MAINTAINED ON-SITE AND BE MADE AVAILABLE TO THE PERMITTING AUTHORITY. THE OWNER/OPERATOR SHALL POST AT THE SITE, IN A PUBLICLY ACCESSIBLE LOCATION, A SUMMARY OF THE SITE INSPECTION ACTIVITIES ON A MONTHLY BASIS.
9. THE OWNER/OPERATOR SHALL FILE A NOTICE OF INTENT (NOI) WITH THE NYSDEC AND LOCAL GOVERNING AUTHORITY PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES AND A NOTICE OF TERMINATION (NOT) WITH NYSDEC FOLLOWING CONSTRUCTION ACTIVITIES.

1 SPDES GENERAL PERMIT COMPLIANCE NOTES
NOT TO SCALE

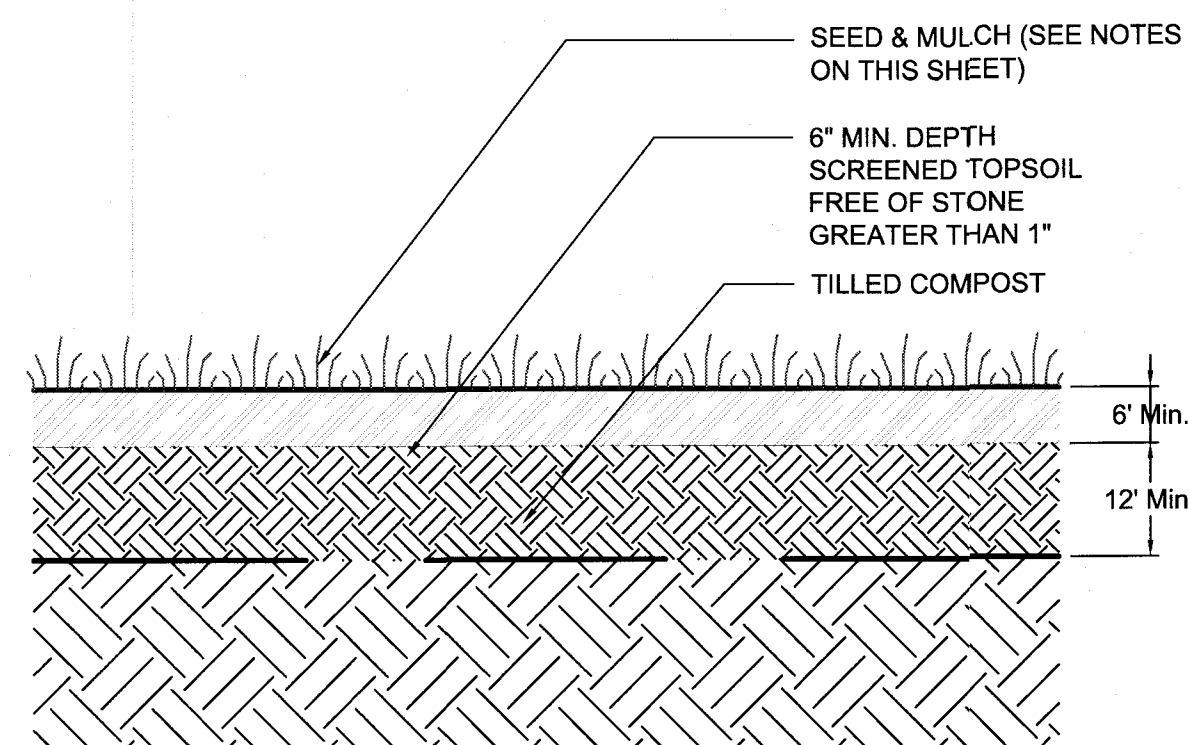
EROSION AND SEDIMENT CONTROL MEASURES:

1. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE IN STRICT COMPLIANCE WITH "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL", NOVEMBER 2015.
2. DAMAGE TO SURFACE WATERS RESULTING FROM EROSION AND SEDIMENTATION SHALL BE MINIMIZED BY STABILIZING DISTURBED AREAS AND BY REMOVING SEDIMENT FROM CONSTRUCTION SITE DISCHARGES.
3. AS MUCH AS IS PRACTICAL, EXISTING VEGETATION SHALL BE PRESERVED. FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES IN ANY PORTION OF THE SITE, PERMANENT VEGETATION SHALL BE ESTABLISHED ON ALL EXPOSED SOILS.
4. SITE PREPARATION ACTIVITIES SHALL BE PLANNED TO MINIMIZE THE SCOPE AND DURATION OF SOIL DISRUPTION.
5. PERMANENT TRAFFIC CORRIDORS SHALL BE ESTABLISHED AND "ROUTES OF CONVENIENCE" SHALL BE AVOIDED. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT ALL POINTS OF ENTRY ONTO THE PROJECT SITE.
6. SEEDING AREAS TO BE MULCHED WITH STRAW OR HAY MULCH IN ACCORDANCE WITH VEGETATIVE COVER SPECIFICATIONS.
7. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE COURSE OF CONSTRUCTION.
8. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST BY SPRINKLING EXPOSED SOIL AREAS PERIODICALLY WITH WATER AS REQUIRED. THE CONTRACTOR IS TO SUPPLY ALL EQUIPMENT AND WATER.
9. WHEN ALL DISTURBED AREAS ARE STABLE, ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED.

MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES:

- PERMANENT AND TEMPORARY VEGETATION:**
INSPECT ALL AREAS THAT HAVE RECEIVED VEGETATION EVERY SEVEN DAYS. ALL AREAS DAMAGED BY EROSION OR WHERE SEED HAS NOT ESTABLISHED SHALL BE REPAIRED AND RESTABILIZED IMMEDIATELY.
- STABILIZED CONSTRUCTION ENTRANCE:**
INSPECT THE ENTRANCE PAD EVERY SEVEN DAYS. CHECK FOR MUD, SEDIMENT BUILD-UP AND PAD INTEGRITY. MAKE DAILY INSPECTIONS DURING WET WEATHER. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL. WASH AND REPLACE STONE AS NEEDED. THE STONE IN THE ENTRANCE SHOULD BE WASHED OR REPLACED WHENEVER THE ENTRANCE FAILS TO REDUCE MUD BEING CARRIED OFF-SITE BY VEHICLES. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. REMOVE TEMPORARY CONSTRUCTION ENTRANCE AS SOON AS THEY ARE NO LONGER NEEDED TO PROVIDE ACCESS TO THE SITE.
- SILT FENCE:**
INSPECT FOR DAMAGE EVERY SEVEN DAYS. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE UP-SLOPE FACE OF THE FENCE BEFORE IT ACCUMULATES TO A HEIGHT EQUAL TO 1/3 THE HEIGHT OF THE FENCE. IF FENCE FABRIC TEARS, BEGINS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED SECTION OF FENCE IMMEDIATELY.
- SOIL STOCKPILE:**
INSPECT SEDIMENT CONTROL BARRIERS (SILT FENCE OR HAY BALE) AND VEGETATION FOR DAMAGE EVERY SEVEN DAYS. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE UP-SLOPE FACE OF THE SEDIMENT CONTROL BARRIER BEFORE IT ACCUMULATES TO A HEIGHT EQUAL TO 1/3 THE HEIGHT OF THE SEDIMENT CONTROL BARRIER. IF SEDIMENT CONTROL BARRIER BEGINS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED SECTION OF SEDIMENT CONTROL BARRIER IMMEDIATELY. REVEGETATE DISTURBED AREA TO STABILIZE SOIL STOCKPILE. REMOVE THE SEDIMENT CONTROL BARRIER WHEN THE SOIL STOCKPILE HAS BEEN REMOVED.
- INLET PROTECTION:**
INSPECT INLET PROTECTION FOR DAMAGE EVERY SEVEN DAYS. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT AS NECESSARY TO PROVIDE FOR ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS.
- DUST CONTROL:**
SCHEDULE CONSTRUCTION OPERATIONS TO MINIMIZE THE AMOUNT OF DISTURBED AREAS AT ANY ONE TIME DURING THE COURSE OF WORK. APPLY TEMPORARY SOIL STABILIZATION PRACTICES SUCH AS MULCHING, SEEDING, AND SPRAYING (WATER). STRUCTURAL MEASURES (MULCH, SEEDING) SHALL BE INSTALLED IN DISTURBED AREAS BEFORE SIGNIFICANT BLOWING PROBLEMS DEVELOP. WATER SHALL BE SPRAYED AS NEEDED. REPEAT AS NEEDED, BUT AVOID EXCESSIVE SPRAYING, WHICH COULD CREATE RUNOFF AND EROSION PROBLEMS.

5 EROSION & SEDIMENT CONTROL NOTES
NOT TO SCALE



- DURING PERIODS OF RELATIVELY LOW MODERATE SUBSOIL MOISTURE, THE DISTURBED SUBSOILS ARE RETURNED TO ROUGH GRADE AND THE FOLLOWING SOIL RESTORATION STEPS APPLIED:
1. APPLY 3 INCHES OF COMPOST OVER SUBSOIL.
 2. TILL COMPOST INTO SUBSOIL TO A DEPTH OF AT LEAST 12 INCHES USING A CAT-MOUNTED RIPPER, TRACTOR-MOUNTED DISC, OR TILLER, MIXING, AND CIRCULATING AIR AND COMPOST INTO SUBSOILS.
 3. ROCK-PICK UNTIL UPLIFTED STONE/ROCK MATERIALS OF FOUR INCHES AND LARGER SIZE ARE CLEANED OF THE SITE.
 4. APPLY TOPSOIL TO A DEPTH OF 6 INCHES.
 5. VEGETATE AS REQUIRED BY APPROVED PLANS.

9 SOIL RESTORATION DETAIL
NOT TO SCALE

CONSTRUCTION WASTE MANAGEMENT PLAN

CONSTRUCTION WASTE MANAGEMENT PRACTICES ARE DESIGNED TO MAINTAIN A CLEAN AND ORDERLY WORK ENVIRONMENT. THIS WILL REDUCE THE POTENTIAL FOR SIGNIFICANT MATERIALS TO COME INTO CONTACT WITH STORMWATER. A MAINTENANCE SCHEDULE SHALL BE DEVELOPED FOR THESE AREAS. THE GENERAL CONTRACTOR SHALL IMPLEMENT THE FOLLOWING PRACTICES:

1. MATERIAL RESULTING FROM THE CLEARING AND GRUBBING OPERATION WILL BE STOCKPILED UP SLOPE FROM ADEQUATE SEDIMENTATION CONTROLS.
2. EQUIPMENT CLEANING, MAINTENANCE, AND REPAIR AREAS SHALL BE DESIGNATED AND PROTECTED BY A TEMPORARY PERIMETER BERM.
3. THE USE OF DETERGENTS FOR LARGE SCALE WASHING IS PROHIBITED (I.E., VEHICLES, BUILDINGS, PAVEMENT SURFACES, ETC.).
4. SPILL PREVENTION AND RESPONSE
A SPILL PREVENTION AND RESPONSE PLAN SHALL BE DEVELOPED FOR THE SITE BY THE GENERAL CONTRACTOR. THE PLAN SHALL DETAIL THE STEPS NEEDED TO BE FOLLOWED IN THE EVENT OF AN ACCIDENTAL SPILL AND SHALL IDENTIFY CONTACT NAMES AND PHONE NUMBERS OF PEOPLE AND AGENCIES THAT MUST BE NOTIFIED.

THE PLAN SHALL INCLUDE MATERIAL SAFETY DATA SHEETS (MSDS) FOR ALL MATERIALS TO BE STORED ON-SITE. ALL WORKERS ON-SITE WILL BE REQUIRED TO BE TRAINED ON SAFE HANDLING AND SPILL PREVENTION PROCEDURES FOR ALL MATERIALS USED DURING CONSTRUCTION. REGULAR TAILGATE SAFETY MEETINGS SHALL BE HELD AND ALL WORKERS THAT ARE EXPECTED ON THE SITE DURING THE WEEK SHALL BE REQUIRED TO ATTEND.

5. MATERIAL STORAGE
CONSTRUCTION MATERIALS SHALL BE STORED IN A DEDICATED STAGING AREA. THE STAGING AREA SHALL BE LOCATED IN AN AREA THAT MINIMIZES THE IMPACTS OF THE CONSTRUCTION MATERIALS EFFECTING STORMWATER QUALITY.
6. TEMPORARY CONCRETE WASHOUT FACILITY
TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE LOCATED A MINIMUM OF 50 FT FROM STORM DRAIN INLETS, OPEN DRAINAGE FACILITIES, AND WATERCOURSES. EACH FACILITY SHOULD BE LOCATED AWAY FROM CONSTRUCTION TRAFFIC OR ACCESS AREAS TO PREVENT DISTURBANCE OR TRACKING. A SIGN SHOULD BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES.

CHEMICALS, PAINTS, SOLVENTS, FERTILIZERS, AND OTHER TOXIC MATERIAL MUST BE STORED IN WATERPROOF CONTAINERS. EXCEPT DURING APPLICATION, THE CONTENTS MUST BE KEPT IN TRUCKS OR WITHIN STORAGE FACILITIES. RUNOFF CONTAINING SUCH MATERIAL MUST BE COLLECTED, REMOVED FROM THE SITE, TREATED AND DISPOSED AT AN APPROVED SOLID WASTE OR CHEMICAL DISPOSAL FACILITY.

7. SOLID WASTE DISPOSAL
NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, ARE ALLOWED TO BE DISCHARGED FROM THE SITE WITH STORMWATER. ALL SOLID WASTE, INCLUDING DISPOSABLE MATERIALS INCIDENTAL TO THE MAJOR CONSTRUCTION ACTIVITIES, MUST BE COLLECTED AND PLACED IN CONTAINERS. THE CONTAINERS WILL BE EMPTIED PERIODICALLY BY A CONTRACT TRUCK DISPOSAL SERVICE AND HAULED AWAY FROM THE SITE.

WHEN TEMPORARY CONCRETE WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE SHALL BE REMOVED AND DISPOSED OF. MATERIALS USED TO CONSTRUCT THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE REMOVED FROM THE SITE AND DISPOSED OF. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE BACKFILLED AND/OR REPAIRED AND SEEDED AND MULCHED FOR FINAL STABILIZATION.

SUBSTANCES THAT HAVE THE POTENTIAL FOR POLLUTING SURFACE AND/OR GROUNDWATER MUST BE CONTROLLED BY WHATEVER MEANS NECESSARY IN ORDER TO ENSURE THAT THEY DO NOT DISCHARGE FROM THE SITE. AS AN EXAMPLE, SPECIAL CARE MUST BE EXERCISED DURING EQUIPMENT FUELING AND SERVICING OPERATIONS. IF A SPILL OCCURS, IT MUST BE CONTAINED AND DISPOSED SO THAT IT WILL NOT FLOW FROM THE SITE OR ENTER GROUNDWATER, EVEN IF THIS REQUIRES REMOVAL, TREATMENT, AND DISPOSAL OF SOIL. IN THIS REGARD, POTENTIALLY POLLUTING SUBSTANCES SHOULD BE HANDLED IN A MANNER CONSISTENT WITH THE IMPACT THEY REPRESENT.

8. WATER SOURCE
NON-STORMWATER COMPONENTS OF SITE DISCHARGE MUST BE CLEAN WATER. WATER USED FOR CONSTRUCTION, WHICH DISCHARGES FROM THE SITE, MUST ORIGINATE FROM A PUBLIC WATER SUPPLY OR PRIVATE WELL APPROVED BY THE HEALTH DEPARTMENT. WATER USED FOR CONSTRUCTION THAT DOES NOT ORIGINATE FROM AN APPROVED PUBLIC SUPPLY MUST NOT DISCHARGE FROM THE SITE. IT CAN BE RETAINED IN THE PONDS UNTIL IT INFILTRATES AND EVAPORATES.

2 CONSTRUCTION WASTE MANAGEMENT PLAN
NOT TO SCALE

PRE-CONSTRUCTION SEQUENCE:

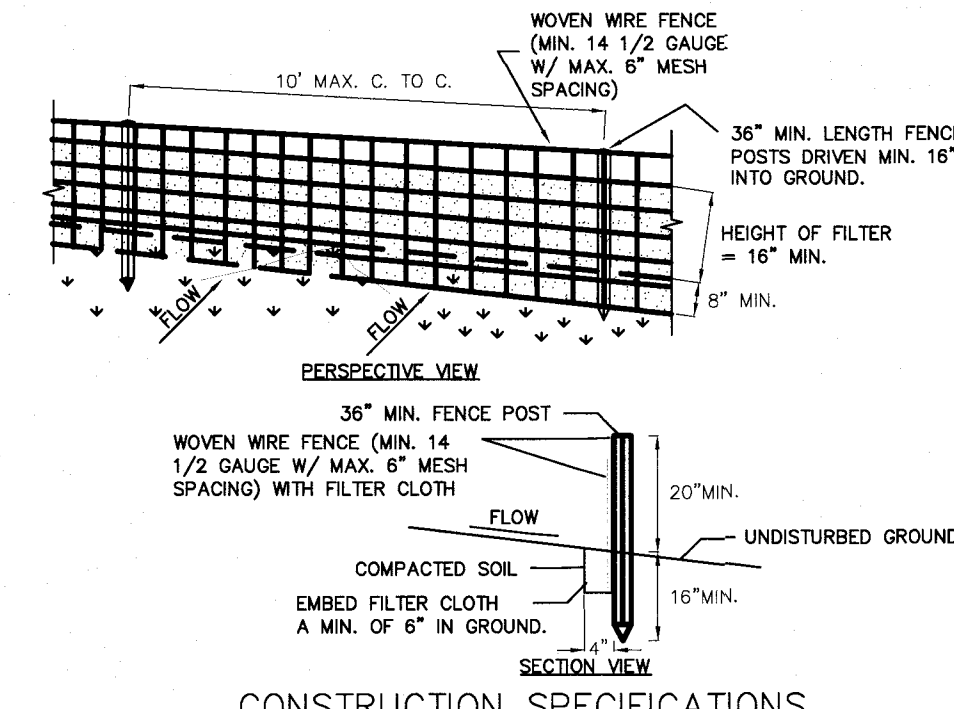
1. NON-DISTURBANCE AREAS SHALL BE MARKED WITH 4-FT ORANGE SNOW FENCING TO TOWN ENGINEER'S SATISFACTION PRIOR TO SITE DISTURBANCE, AND SHALL BE MAINTAINED UNTIL ISSUANCE OF A C.O.
2. HOLD A PRE-CONSTRUCTION MEETING WITH THE OWNER/OPERATOR, SITE ENGINEER, TOWN ENGINEER, TRAINED CONTRACTOR, QUALIFIED EROSION CONTROL INSPECTOR AND BUILDING INSPECTOR. PLACE A COPY OF THE SWPPP REPORT ON SITE ALONG WITH A COPY OF THE INSPECTOR'S LOG BOOK CONTAINING COPIES OF THE WEEKLY INSPECTIONS. (APPLICANT'S EROSION & SEDIMENT CONTROL INSPECTION AGENT SHALL CONDUCT AN INSPECTION ON A WEEKLY BASIS)

CONSTRUCTION SEQUENCE:

1. INSTALL AND STABILIZE TEMPORARY EROSION & SEDIMENT CONTROL MEASURES AS SHOWN ON THE SWPPP PLAN.
2. BEGIN DEMOLITION OF EXISTING STRUCTURES
3. INSTALL TEMPORARY DIVERSION SWALES AS NECESSARY TO DIVERT RUNOFF AWAY FROM CONSTRUCTION AND CONSTRUCT THE TEMPORARY SEDIMENT BASIN.
4. BEGIN REMAINING SITE GRADING, DRIVEWAY GRADE CONSTRUCTION AND FOUNDATION EXCAVATION.
5. ROUGH OUT DRIVEWAY AND PARKING AREA TO SUB-GRADE
6. POUR CONCRETE FOOTINGS AND FOUNDATIONS FOR PROPOSED BUILDINGS.
7. INSTALL REMAINING SITE UTILITIES AND/OR INFRASTRUCTURE
8. INSTALL CURBING ONCE ALL MAJOR WORK ON SITE IS COMPLETE, AS REQUIRED.
9. INSTALL INFILTRATION CHAMBERS AS SHOWN ON THE UTILITY PLAN AND AS PER MANUFACTURER'S SPECIFICATIONS
10. TOPSOIL, SEED AND MULCH ALL DISTURBED AREAS THAT HAVE OBTAINED FINISHED GRADE ELEVATIONS.
11. SEED AND MULCH ALL DISTURBED AREAS THAT WILL NOT BE RE-DISTURBED FOR AT LEAST 14 DAYS.
12. FINALIZE BUILDING CONSTRUCTION.
13. ONCE ALL MAJOR SITE DISTURBANCE ACTIVITIES HAVE CEASED AND THE SITE HAS ACHIEVED FINAL STABILIZATION, FILE AN N.O.T. (NOTICE OF TERMINATION) WITH NYSDEC.
14. TERMINATE EROSION CONTROL INSPECTIONS.

6 CONSTRUCTION SEQUENCE
NOT TO SCALE

3 SILT FENCE DETAIL
NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE TO 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 TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12 1/2 GAUGE, 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, WHEAT TUCK, STABILINKA TUCK, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE GEOTAB, ENVRPENCE, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

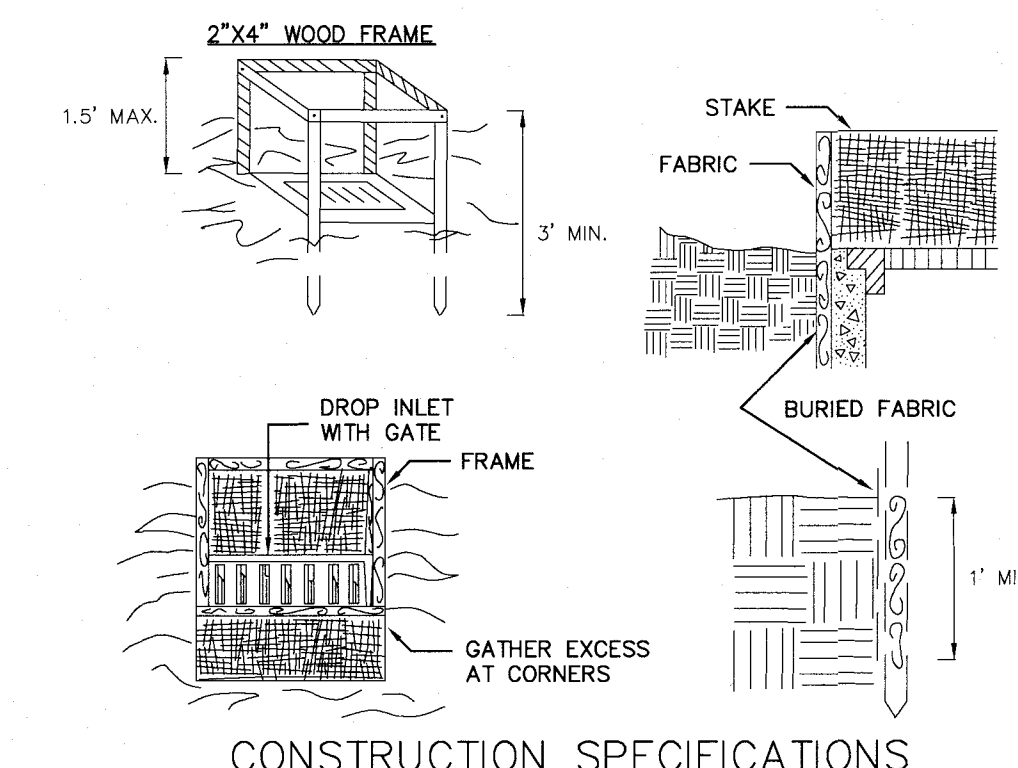
3 SILT FENCE DETAIL
NOT TO SCALE

1. ALL SEDIMENT & EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THESE PLANS & DETAILS. CHANGES, OMISSIONS AND/OR OTHER ALTERATIONS CAN NOT BE MADE TO THESE PLANS WITHOUT THE CONSENT OF THE DESIGN ENGINEER.
2. SILT FENCE SHALL BE INSTALLED AS SHOWN ON THIS DRAWING PRIOR TO BEGINNING ANY CLEARING, GRUBBING AND EARTHWORK.
3. EXPOSED SLOPES AND ALL GRADED AREAS SHALL BE SEED WITH THE FOLLOWING GRASS SEED MIX IMMEDIATELY UPON COMPLETION OF ITS CONSTRUCTION, OR IF PLANNED TO BE LEFT UNDISTURBED FOR MORE THAN 21 DAYS. GRASS SEED MIX TO BE APPLIED AT A RATE OF 50 POUNDS PER ACRE IN THE FOLLOWING PROPORTIONS:

KENTUCKY BLUEGRASS	40%
CREEPING RED FESCUE	40%
RYE GRASS	20%

4. 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 SPECIFICATIONS, CONSTRUCTION AND MATERIALS, SECTION 610-3.02.
- METHOD No. 1.
- SEEDING AREAS SHALL BE MULCHED WITH STRAW AT A RATE OF 2 TONS PER ACRE, OR 90 LBS PER 1,000 SQUARE FEET, SUCH THAT IT FORMS A CONTINUOUS BLANKET.
6. SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED IN A DAILY BASIS BY THE OWNER'S FIELD REPRESENTATIVE.
7. DUST SHALL BE CONTROLLED BY SPRINKLING OF WATER OR OTHER APPROVED METHODS AS NECESSARY AS DIRECTED BY THE OWNER'S FIELD REPRESENTATIVE.
8. CUTS AND FILLS SHALL NOT ENDANGER ADJOINING PROPERTY, NOR DIVERT SURFACE WATER ONTO ADJOINING PROPERTY.
9. ALL FILLS SHALL BE COMPACTED TO PROVIDE STABILITY OF MATERIALS AND TO PREVENT SETTLEMENT.
10. EXCAVATIONS AND FILLS TO BE ROLLED, SEALED AND STABILIZED AT COMPLETION OF EACH DAY'S WORK.
11. THE OWNER'S FIELD REPRESENTATIVE SHALL INSPECT THE DOWNSTREAM CONDITIONS FOR EVIDENCE OF SEDIMENTATION ON A WEEKLY BASIS AND AFTER RAINSTORMS.
12. AS WARRANTED BY FIELD CONDITIONS, SPECIAL ADDITIONAL SEDIMENTATION AND EROSION CONTROL MEASURES MAY BE ADDED TO THIS PLAN BY THE SITE ENGINEER, TOWN ENGINEER AND HIGHWAY SUPERINTENDENT. ANY REVISIONS TO THIS PLAN MUST BE SUBMITTED TO THE SITE ENGINEER. ANY CHANGES DEEMED NECESSARY TO THIS PLAN SHALL BE DICTATED BY THE SITE ENGINEER AS NECESSARY TO CARRY-OUT THE INTENT OF THIS PLAN.

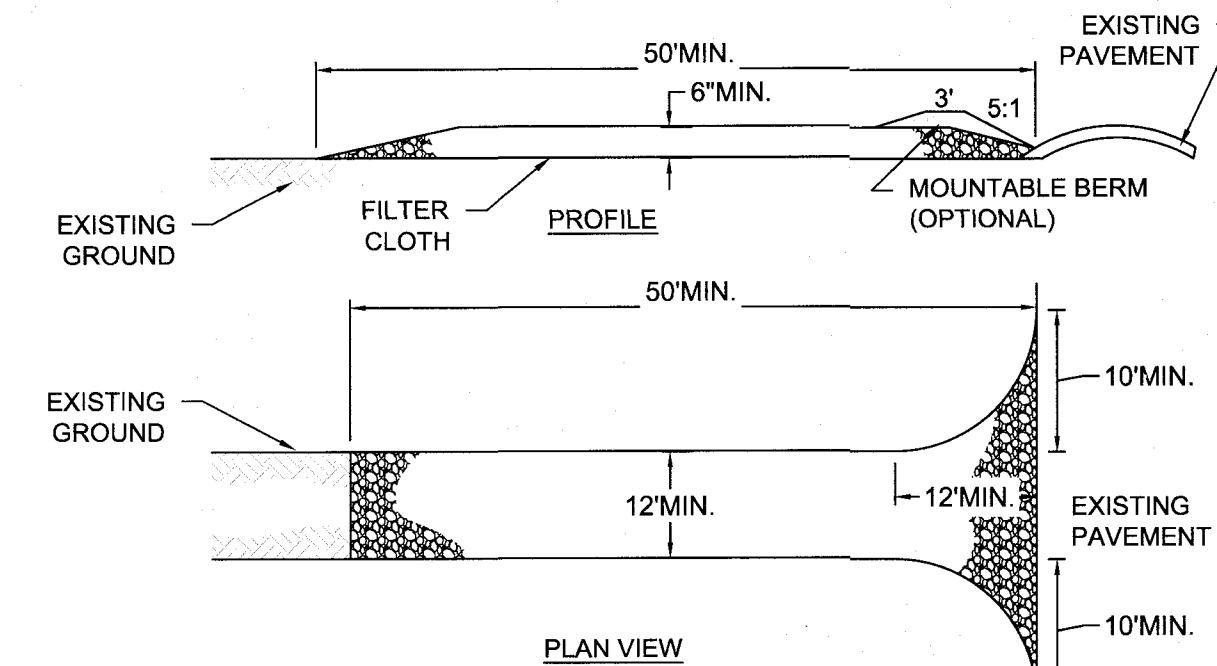
7 SEEDING & MULCHING NOTES
NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

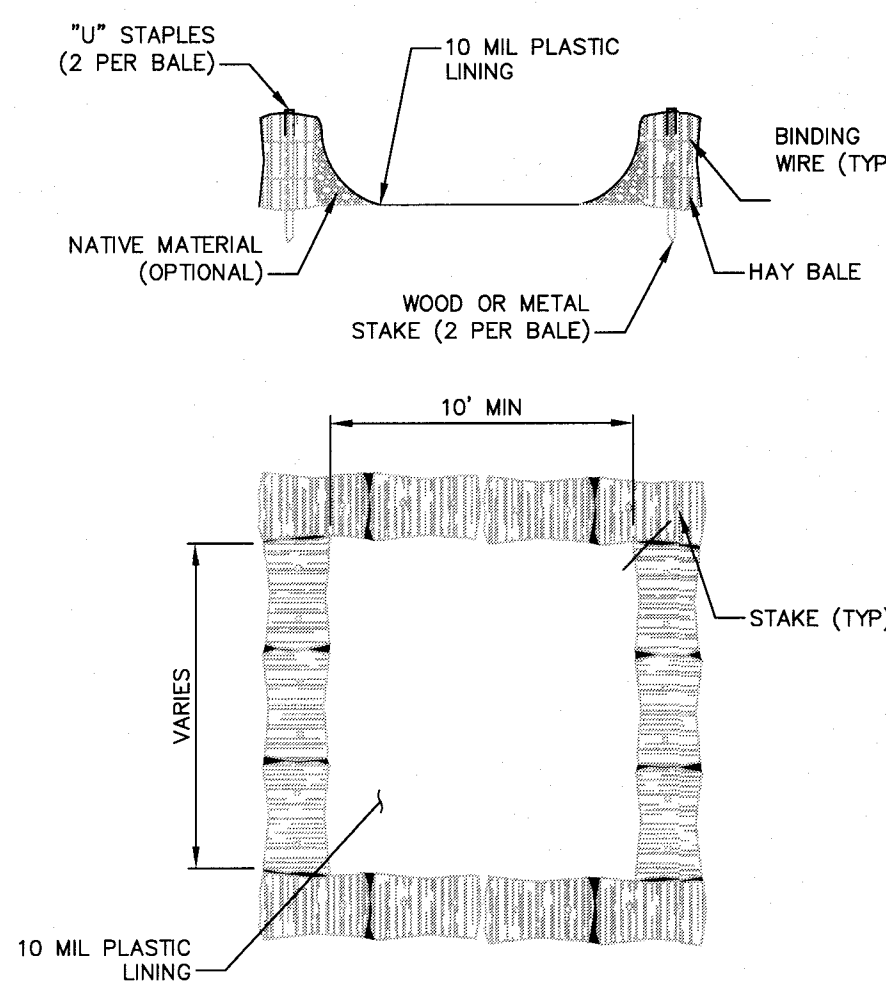
1. FILTER FABRIC SHALL HAVE AN EGS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH OF 3 FEET.
4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPACES GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.

11 FILTER FABRIC DROP INLET PROTECTION
NOT TO SCALE



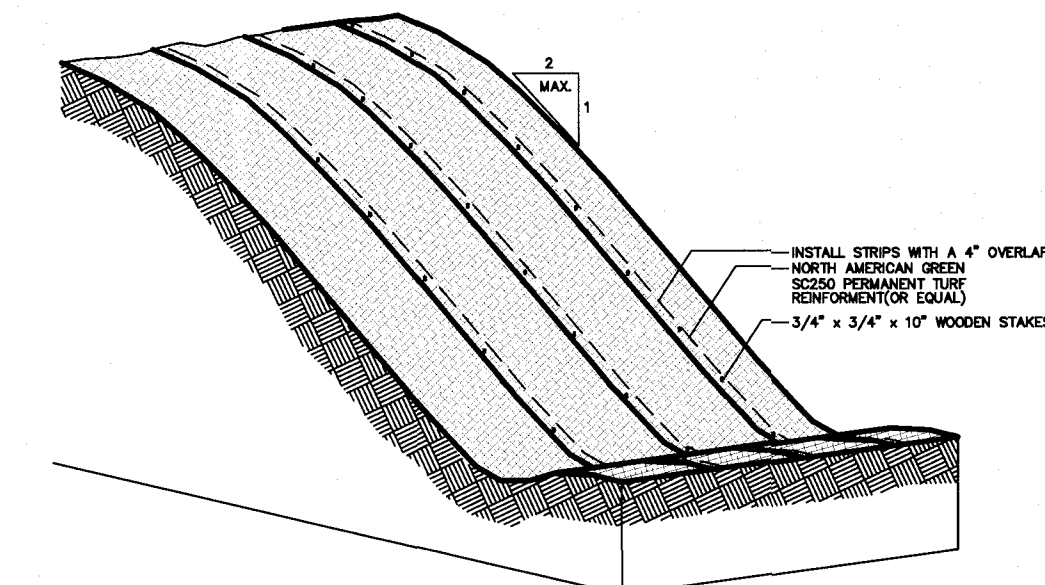
1. STONE SIZE - USE 1-4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ACCESS SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

4 ANTI-TRACKING PAD DETAIL
NOT TO SCALE



- NOTES:**
1. CONCRETE WASHOUT SIGN TO BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
 2. REMOVE HARDEN CONCRETE WHEN WITHIN 4" FROM TOP OF STRUCTURE.
 3. CONSTRUCT NEW FACILITIES ONCE CURRENT FACILITIES ARE TWO-THIRDS FULL.
 4. LINERS, HAYBALES, ETC SHALL BE INSPECTED FOR DAMAGE. ANY DAMAGE SHALL BE REPAIR PROMPTLY.

8 TEMPORARY CONCRETE WASHOUT DETAIL
NOT TO SCALE



- NOTES:**
- 1) CONTRACTOR TO INSTALL NORTH AMERICAN GREEN PERMANENT TURF REINFORCEMENT (OR EQUAL) PARALLEL TO THE SLOPE.
 - 2) THESE SHALL BE A 4" OVERLAP OVER CONTIGUOUS STRIPS OF MATTING.
 - 3) INSTALL 3/4" x 3/4" WOODEN STAKES @ 6" INTERVALS. LEAVE A 1" REVEAL.
 - 4) HYDROSEED SHOULD BE APPLIED TO AREA AS SOON AS PRACTICABLE.
 - 5) WATER TO BE APPLIED AS REQUIRED TO GERMINATE GRASS SEEDS.
 - 6) THE CONTRACTOR TO PERIODICALLY INSPECT MATTING AND MAKE REPAIRS AS NECESSARY. THE MATTING SHALL BE INSPECTED IMMEDIATELY AFTER A STORM EVENT.
 - 7) INSTALL EROSION CONTROL MEASURES AS NECESSARY UP-SLOPE OF THE STABILIZED AREA TO ENSURE MINIMAL EROSION THROUGH STABILIZED AREAS.
 - 8) CONTRACTOR TO USE 20% OF RYE GRASS IN THE GRASS SEED MIX TO PROMOTE A STABILIZED GRASS MIXTURE.

4 EROSION CONTROL MATTING (ECM) DETAIL
NOT TO SCALE

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSONS TO ALTER THESE PLANS, SPECIFICATIONS, OR REPORTS IN ANY WAY, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR.

Mark A. Day, PE	
09-29-2020	
08-05-2020	
07-23-2020	
04-08-2020	
03-16-2020	
03-03-2020	
02-19-2020	
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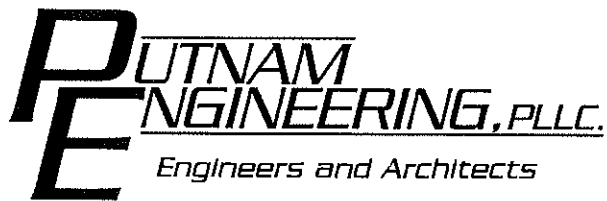
DAY STOKOSA
ENGINEERING P.C.

3 Van Wyck Lane
Suite 2
Wappingers Falls, New York 12590
(845) 223-3202

14 Nicole Way
Tax Map 65.01-1-22
Town of Caramel Putnam County, New York

Erosion & Sediment Control Details

SCALE	DRAWN BY	DATE	CHECKED BY	9 of 9
As Noted	BJW	01-25-20	MAD	



September 28, 2020

Mr. Craig Paeprrer, Chairman
Town of Carmel Planning Board
Carmel Town Hall
60 McAlpin Avenue
Mahopac, NY 10541

Re: Old Forge Estates
Baldwin Place Road
Mahopac, NY
TM: 75.15-1-19

Dear Chairman Paeprrer and Members of the Board:

In response to comments received dated March 9, 2020, we have prepared the following responses:

Town Engineer:

Preliminary Detailed Comments:

1. Graphical representation of vehicle movements have been provided.
2. This has been discussed with the Town of Carmel Highway Superintendent and Engineering Department and found acceptable as it had been in the past.
3. Driveway slopes have been provided. All driveways meet Town of Camel code requirements.
4. N.Y.C.D.E.P. has contacted the Town Engineer and expressed that treatment would be accomplished through the use of filter strips.

At this time I believe that we are in a position to move forward in having a public hearing as well as being considered for preliminary approval for the project.

I ask that we be placed on the next agenda in order to move forward.

Sincerely yours,

PUTNAM ENGINEERING

A handwritten signature in black ink, appearing to read 'Paul M. Lynch', written over a horizontal line.

Paul M. Lynch, P.E.
PML/rrm

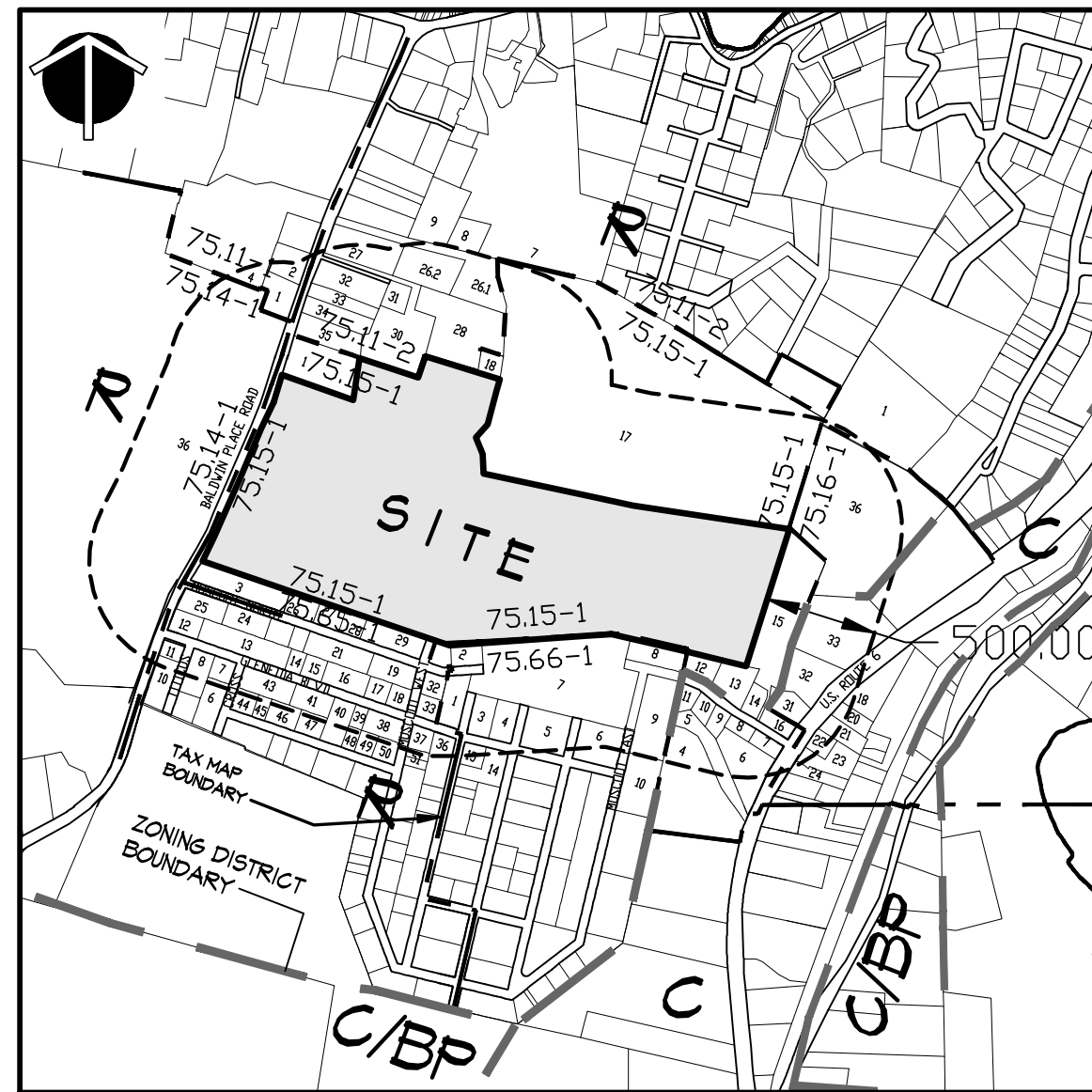
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OLD FORGE ESTATES

BALDWIN PLACE ROAD

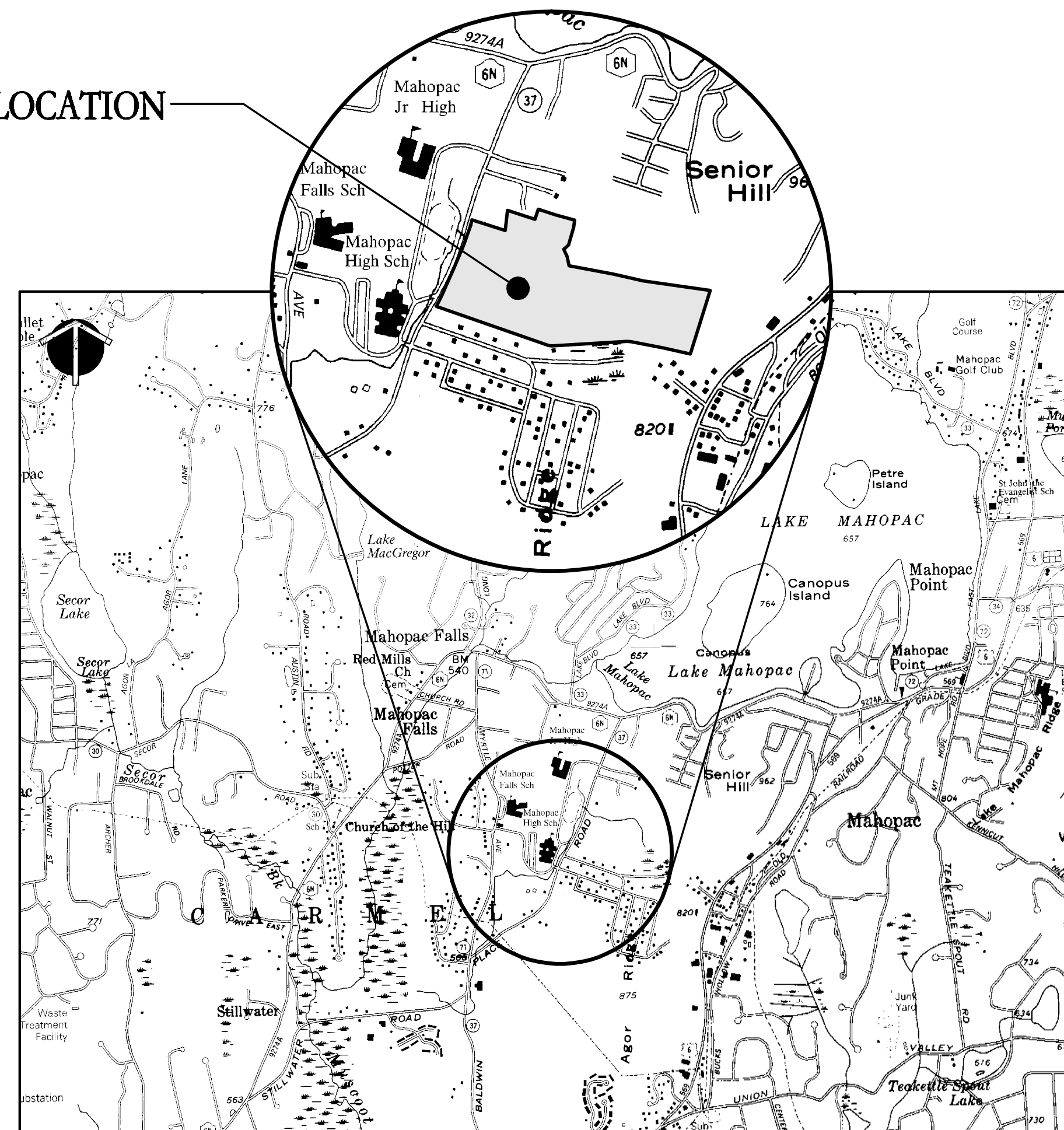
TOWN of CARMEL

PUTNAM COUNTY, NEW YORK

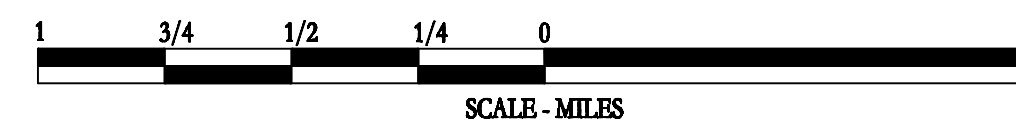


AREA MAP
SCALE: 1"=800'

PROJECT LOCATION



LOCATION MAP



DRAWING SCHEDULE

DRAWING No.	SHEET No.	DRAWING TITLE
C-010	1	COVER SHEET
C-020	2	EXISTING CONDITIONS PLAN
C-100	3	SUBDIVISION PLAN
C-101	4	ENLARGED SUBDIVISION PLAN
C-110	5	ENLARGED SITE LAYOUT PLAN
C-120	6	GRADING and DRAINAGE PLAN
C-121	7	ENLARGED GRADING and DRAINAGE PLAN
C-122	8	ENLARGED GRADING and DRAINAGE PLAN
C-130	9	UTILITIES PLAN
C-140	10	SITS LAYOUT PLAN
C-141	11	ENLARGED SITS PLAN
C-142	12	TEST LOCATION FOR STORMWATER PRACTICES
C-150	13	EROSION and SEDIMENT CONTROL PLAN - PHASE 1A
C-151	14	EROSION and SEDIMENT CONTROL PLAN - PHASE 1B
C-152	15	EROSION and SEDIMENT CONTROL PLAN - PHASES 2
C-153	16	EROSION and SEDIMENT CONTROL PLAN - PHASES 3
C-154	17	EROSION and SEDIMENT CONTROL PLAN - PHASES 4
C-155	18	EROSION and SEDIMENT CONTROL PLAN - PHASES 5A AND 5B
C-156	19	EROSION and SEDIMENT CONTROL PLAN - PHASE 6
C-160	20	LANDSCAPE PLAN
C-210	21	ROAD PROFILES
C-211	22	DRAINAGE PROFILES
C-212	23	SEWER PROFILES
C-213	24	WATERMAIN PROFILES
C-310	25	DETAILS
C-311	26	DETAILS
C-312	27	DETAILS
C-313	28	DETAILS
C-314	29	DETAILS
C-315	30	DETAILS
C-316	31	DETAILS
C-317	32	DETAILS
C-410	33	DRIVENWAY PROFILES
C-420	34	WATERMAIN RELOCATION PLAN

ADJOINERS:

75.14-1	Christopher Stauck & Susan Stauck	409 Baldwin Place Rd Mahopac NY 10541	75.94-1	Town of Carmel	60 Macopin Ave Mahopac NY 10541
75.14-2	Rosa Marinaccio	401 Baldwin Place Rd Mahopac NY 10541	75.95-1-6	Robert J. Mangelli	4 Cross Dr Mahopac NY 10541
75.14-4	Mahopac Central School Dist	45-302 178 East Lake Blvd Mahopac NY 10541	75.95-1-7	Nano Reis	11 Glenaida Blvd Mahopac NY 10541
75.14-21	Richard Doyle & Kimberly Doyle	19 Pine Cone Rd Mahopac NY 10541	75.95-1-8	Lisa M. Rucker & Matthew Bennett	1 Glenaida Blvd Mahopac NY 10541
75.14-24	William Long & Marie Long	12 Pine Cone Rd Mahopac NY 10541	75.95-1-10	The College Edw. Heston Trust	107 East 35th St 4th New York NY 10018
75.14-24	Daniel Andron	2110 Grand Central Plaz Floral Park NY 11005-2208	75.95-1-11	Lisa M. Rucker & Matthew Bennett	1 Glenaida Blvd Mahopac NY 10541
75.14-26	Harry Hess & Christine Kilkenny	1 Dorset Dr Mahopac NY 10541	75.95-1-12	Tarance McDonald & Eileen McDonald	2 Glenaida Blvd Mahopac NY 10541
75.14-2-261	Robert Amato & Nancy L. Amato	22 Drago Ln Mahopac NY 10541	75.95-1-13	Stephanie Tropea	14 Glenaida Blvd Mahopac NY 10541
75.14-2-262	Rosa Caporale, Anthony J. Caporale III, Nicola Esposito, Marlene Corvino	10 Drago Ln Mahopac NY 10541	75.95-1-14	Eileen M. Kutzajn & William G. Kutzajn	26 Glenaida Blvd Mahopac NY 10541
75.14-2-27	Michael Loucas	418 Baldwin Place Rd Mahopac NY 10541	75.95-1-16	John J. Keller & Daniela R. Pananetta	34 Glenaida Blvd Mahopac NY 10541
75.14-2-28	Richard O'Brien & Isabella O'Brien	21 Tribble Hill Mahopac NY 10541	75.95-1-17	Mary Keegan	5175 Sorbonne St Elmhurst NY 11373
75.14-2-30	Stephanie Phillips, Susan Phillips, Anne M. Phillips	101 Highview Dr Carmel NY 10542	75.95-1-18	Mary Keegan	41 Maccoot Rd N Mahopac NY 10541
75.14-2-31	Richard O'Brien & Isabella O'Brien	24 Tribble Hill Mahopac NY 10541	75.95-1-21	John O'Reilly & Patricia O'Reilly	33 Maccoot Rd N Mahopac NY 10541
75.14-2-32	Franz Finkmann & Drika J. Finkmann	414 Baldwin Pl Rd Mahopac NY 10541	75.95-1-24	Patrick B. Mulvaney & Stephen H. Mulvaney	11 Maccoot Rd N Mahopac NY 10541
75.14-2-33	Alexander Teron & Veronica Teron	11 West Stevens Ave Hawthorne NY 10532	75.95-1-25	Abraham Leberkoff	34 West 47th St New York NY 10023
75.14-2-34	Kathy Contreras	1066 Baldwin Place Rd Mahopac NY 10541	75.95-1-26	John Busci & Nancy Busci	22 Maccoot Rd N Mahopac NY 10541
75.14-2-39	Mary T. Holden & Henry Holden	402 Baldwin Place Rd Mahopac NY 10541	75.95-1-27	Bruce Schwartz & Judy Schwartz	28 Maccoot Rd N Mahopac NY 10541
75.14-2-39	Mahopac Central School Dist	40-100 Myrtle Ave Mahopac NY 10541	75.95-1-28	Bruce Schwartz	28 Maccoot Rd N Mahopac NY 10541
75.14-1	John J. Goodrum, Jr & Christina E. Goodrum	849 Baldwin Place Rd Mahopac NY 10541	75.95-1-29	Hazel Oliveira & Carminda Oliveira	38 Maccoot Rd N Mahopac NY 10541
75.14-1	Joel Greenberg & Wendy Greenberg	2 Maccoot Rd N Mahopac NY 10541	75.95-1-32	Lola Marie Maluzzo	10 Birch Ave Pelham NY 10803
75.14-1	Patrick J. Delamora & Kathleen P. Delamora	P.O. Box 150 Mahopac NY 10541	75.95-1-33	Lola Marie Maluzzo	10 Birch Ave Pelham NY 10803
75.14-1	Kathleen T. Delamora	P.O. Box 150 Mahopac NY 10541	75.95-1-36	John V. Cappelloni & Maria Cappelloni	31 West Branch Rd Mahopac NY 10541
75.14-1	Robert Thomas Inc.	10 Towler Ave Carmel NY 10542	75.95-1-37	Thomas E. Berger & Brian N. Spitzer	48 Glenaida Blvd Mahopac NY 10541
75.14-1	JDCGS Holdings, LLC	422 Rt 6 Mahopac NY 10541	75.95-1-38	Roger Duran & Jorge Duran	41 Glenaida Blvd Mahopac NY 10541
75.14-1	Joseph E. Simone	1 Veschi Lane N Mahopac NY 10541	75.95-1-39	Patricia Keogh	5106 Gloria Ave Elmira Falls NY 10541
75.14-1	Ike Fink & Adolf Fink	P.O. Box 380 Mahopac NY 10541	75.95-1-40	Anthony Grosso & Laura Grosso	39 Glenaida Blvd Mahopac NY 10541
75.14-1	Franz Salza & Drita Salza	11 Veschi Lane N Mahopac NY 10541	75.95-1-41	Briegg G. Morrione & Heidi Turner	21 Glenaida Blvd Mahopac NY 10541
75.14-1	Robert J. Pisco & Karen N. Pisco	11 Veschi Lane North Mahopac NY 10541	75.95-1-43	Patricia A. Danneberg & Henry J. Danneberg	41 Cross Dr Mahopac NY 10541
75.14-1	Joseph E. Tyndall & Rita Tyndall	20 N Veschi Ln Mahopac NY 10541	75.95-1-44	José Reis & Elizabeth Reis	8 Cross Dr Mahopac NY 10541
75.14-1	Anthony M. Rush & Bianca Bunge	14 Veschi Lane N Mahopac NY 10541	75.95-1-45	Anthony Morando	P.O. Box 462 Mahopac NY 10541
75.14-1	Travis B. Holl & Margaret E. Austin	10 Veschi Lane N Mahopac NY 10541	75.95-1-46	Thomas Dechiaro	10 Gleason Rd Mahopac NY 10541
75.14-1	John Cresco & Noley Cresco	20 Pinnerose St Katonah NY 10536	75.95-1-47	Anthony Puccio & Debra Puccio	16 Gleason Rd Mahopac NY 10541
75.14-1	Steven Cresco	9 Veschi Rd Mahopac NY 10541	75.95-1-48	Diane Chipman & Robert Chipman	30 Gleason Rd Mahopac NY 10541
75.14-1	Joseph E. Simone, Jr & Susan Simone	9 Macopin Ave Mahopac NY 10541	75.95-1-49	Diane Chipman & Robert Chipman	30 Gleason Rd Mahopac NY 10541
75.14-1	Sebastian Ferrera	1618 Third Avenue - #18A New York NY 10028	75.95-1-50	Diane Chipman & Robert Chipman	30 Gleason Rd Mahopac NY 10541
75.14-1	Richard O'Brien	24 Tribble Hill Mahopac NY 10541	75.95-1-51	Josephine Salomita	42 Maccoot Rd N Mahopac NY 10541
75.14-1	Kathleen Tyndall	441 Rt 6 Mahopac NY 10541	75.95-1-51	Eric Soraki	54 Glenaida Blvd Mahopac NY 10541
75.14-1	Thomas Simone & Gene Simone	155 Bushkotten Rd Mahopac NY 10541	75.95-1-52	Steph A. Grubelka	48 Maccoot Rd N Mahopac NY 10541
75.14-1	Thomas Simone & Nina Simone	155 Bushkotten Rd Mahopac NY 10541	75.95-1-53	Eric Soraki	54 Glenaida Blvd Mahopac NY 10541
75.14-1	Gene Simone	P.O. Box 104 431 Route 6 Mahopac NY 10541	75.95-1-54	Amy Pelton	64 Glenaida Blvd Mahopac NY 10541
75.14-1	Scott Nygard	421 Route 6 Mahopac NY 10541	75.95-1-55	Anthony Morando	P.O. Box 462 Mahopac NY 10541
75.14-1	Scott Nygard	121 Heather Dr Mahopac NY 10541	75.95-1-56	Brandon B. Donahue	60 Glenaida Blvd Mahopac NY 10541
75.14-1	Jacary Realty Corp.	42 Rt 6 Mahopac NY 10541	75.95-1-57	Town of Carmel	60 Macopin Ave Mahopac NY 10541
75.14-1	DF Group Realty, LLC	430 Rt 6 Mahopac NY 10541	75.95-1-58	Anthony Morando	P.O. Box 462 Mahopac NY 10541
75.14-1	Eric Gruber	436 Rt 6 Mahopac NY 10541	75.95-1-59	Anthony Morando	P.O. Box 462 Mahopac NY 10541
75.14-1	142 Realty Group LLC	P.O. Box 656 Mahopac NY 10541	75.95-1-60	JAB Builders, Inc.	41th John Barile 361 Route 6 Mahopac NY 10541
75.14-1	142 Realty Group LLC	464 Rt 6 Mahopac NY 10541	75.95-1-61	James T. Doherty & Tara M. Doherty	38 Middle Branch Rd Mahopac NY 10541
75.14-1	Town of Carmel	60 Macopin Ave Mahopac NY 10541	75.95-1-62	James Doherty	34 Middle Branch Rd Mahopac NY 10541

OWNER / APPLICANT

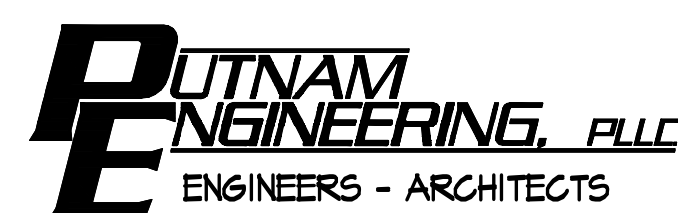
ANGELO MASTRANTONI
29 FRANCES DR.
KATONAH, NY 10536

CARMEL PLANNING BOARD APPROVAL

APPROVED BY RESOLUTION OF THE PLANNING BOARD OF THE TOWN OF CARMEL, NEW YORK, ON THE _____ DAY OF _____, 20____, SUBJECT TO ALL REQUIREMENTS AND CONDITIONS OF SAID RESOLUTION, ANY CHANGE, ERASURE, MODIFICATION OR REVISION OF THIS PLAN, AS APPROVED, SHALL VOID THIS APPROVAL.

SIGNED THIS _____ DAY OF _____, 20____, BY _____

CHAIRMAN



4 OLD ROUTE 6, BREWSTER, NEW YORK 10504
(845) 219-6104 FAX (845) 219-6164
PUTNAM ENGINEERING PLLC 2018

PURSUANT TO NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 7209 SUBDIVISION 2, "IT IS A VIOLATION OF THIS LAW FOR ANY PERSON UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE SEAL OF AN ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION."

REVISIONS		PROJECT			
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	01 NOV 18	REV. PER BL, TE, TP COMMENTS			
2	02 OCT 19	REV. PER TE COMMENTS			
3	11 MAY 20	REV. PER TE COMMENTS			

PROPOSED SUBDIVISION PLAN PREPARED FOR:

OLD FORGE ESTATES

BALDWIN PLACE ROAD
TOWN of CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP 75.15-1-11

DATE: 12 APR 18

PROJECT MANAGER: P.M.L.

DRAWN BY: B.J.K.

CHECKED BY: P.M.L.

SCALE: AS NOTED

DRAWING: COVER SHEET

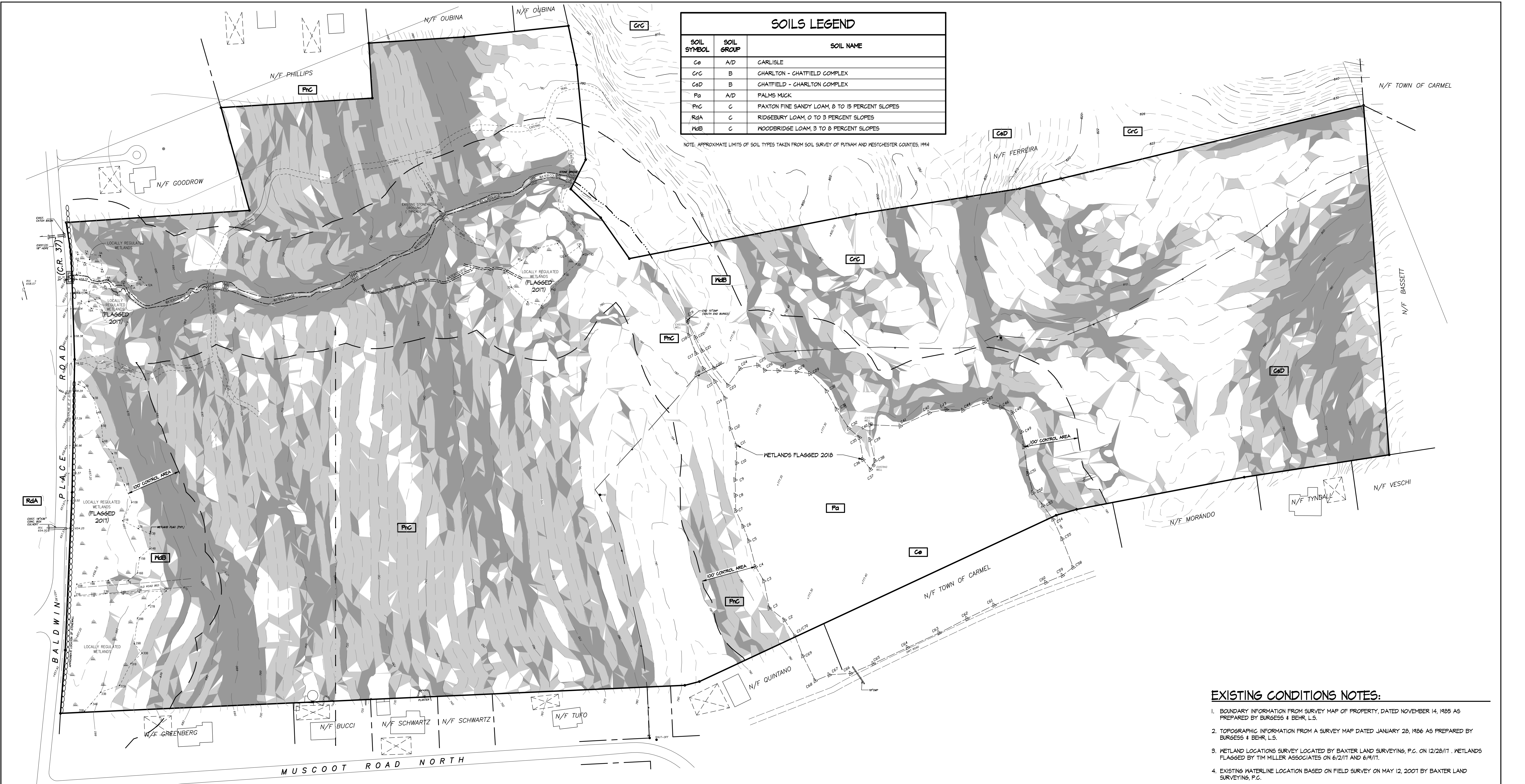
PROJECT NUMBER: 8286

DRAWING NUMBER: C-010

SHEET 1 OF 34

SOILS LEGEND		
SOIL SYMBOL	SOIL GROUP	SOIL NAME
Ca	A/D	CARLISLE
CrC	B	CHARLTON - CHATFIELD COMPLEX
CaD	B	CHATFIELD - CHARLTON COMPLEX
Pa	A/D	PALMS MUCK
PhC	C	PAXTON FINE SANDY LOAM, 8 TO 15 PERCENT SLOPES
RdA	C	RIDGEBURY LOAM, 0 TO 3 PERCENT SLOPES
MdB	C	WOODBRIDGE LOAM, 3 TO 8 PERCENT SLOPES

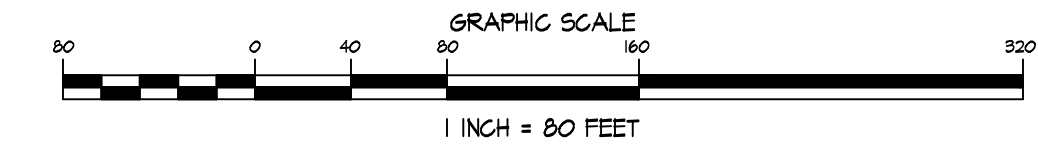
NOTE: APPROXIMATE LIMITS OF SOIL TYPES TAKEN FROM SOIL SURVEY OF PUTNAM AND WESTCHESTER COUNTIES, 1944



EXISTING CONDITIONS LEGEND:

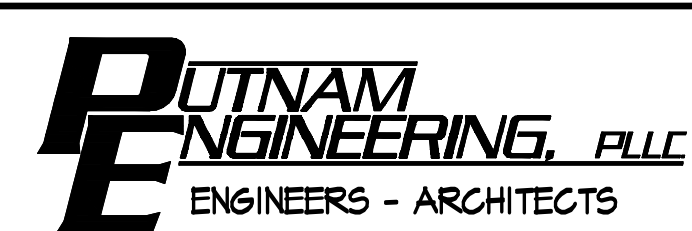
	EXISTING CONTOURS		SOIL BOUNDARY
	EXISTING DRAINAGE LINE		SOIL TYPE
	EXISTING WATER LINE		SLOPES 0% TO 10%
	EXISTING WELL		SLOPES 10% TO 15%
	EXISTING SSTS AREA		SLOPES GREATER THAN 15%
	EXISTING BUILDING		
	TOWN WETLAND BOUNDARY & FLAG		
	100 FT. WETLAND BUFFER LINE		

EXISTING CONDITIONS PLAN



EXISTING CONDITIONS NOTES:

- BOUNDARY INFORMATION FROM SURVEY MAP OF PROPERTY, DATED NOVEMBER 14, 1985 AS PREPARED BY BURGESS & BEHR, L.S.
- TOPOGRAPHIC INFORMATION FROM A SURVEY MAP DATED JANUARY 28, 1986 AS PREPARED BY BURGESS & BEHR, L.S.
- WETLAND LOCATIONS SURVEY LOCATED BY BAXTER LAND SURVEYING, P.C. ON 12/28/11. WETLANDS FLAGGED BY TIM MILLER ASSOCIATES ON 6/2/11 AND 6/19/11.
- EXISTING WATERLINE LOCATION BASED ON FIELD SURVEY ON MAY 12, 2001 BY BAXTER LAND SURVEYING, P.C.
- OWNER/APPLICANT: ANGELO MASTRANTONI
28 FRANCES DRIVE
KATONAH, NY 10526
CONTACT: PAUL MASTRANTONI
(914) 755-0445
- PROPOSED USE: RESIDENTIAL CLUSTER DEVELOPMENT - 14 LOTS
- SITE DATA: TOTAL LOT AREA = 1415641 S.F. (45.355 AC.)
TAX MAP 75.15, BLOCK 1, LOT 19
- ZONING DISTRICT: R - RESIDENTIAL
- SCHOOL DISTRICT: MAHOPAC CENTRAL SCHOOL DISTRICT
- FIRE DISTRICT: MAHOPAC FALLS VOLUNTEER FIRE DISTRICT



4 OLD ROUTE 6, BREWSTER, NEW YORK 10504
(845) 274-6789 FAX (845) 274-6769
● PUTNAM ENGINEERING PLLC 2018

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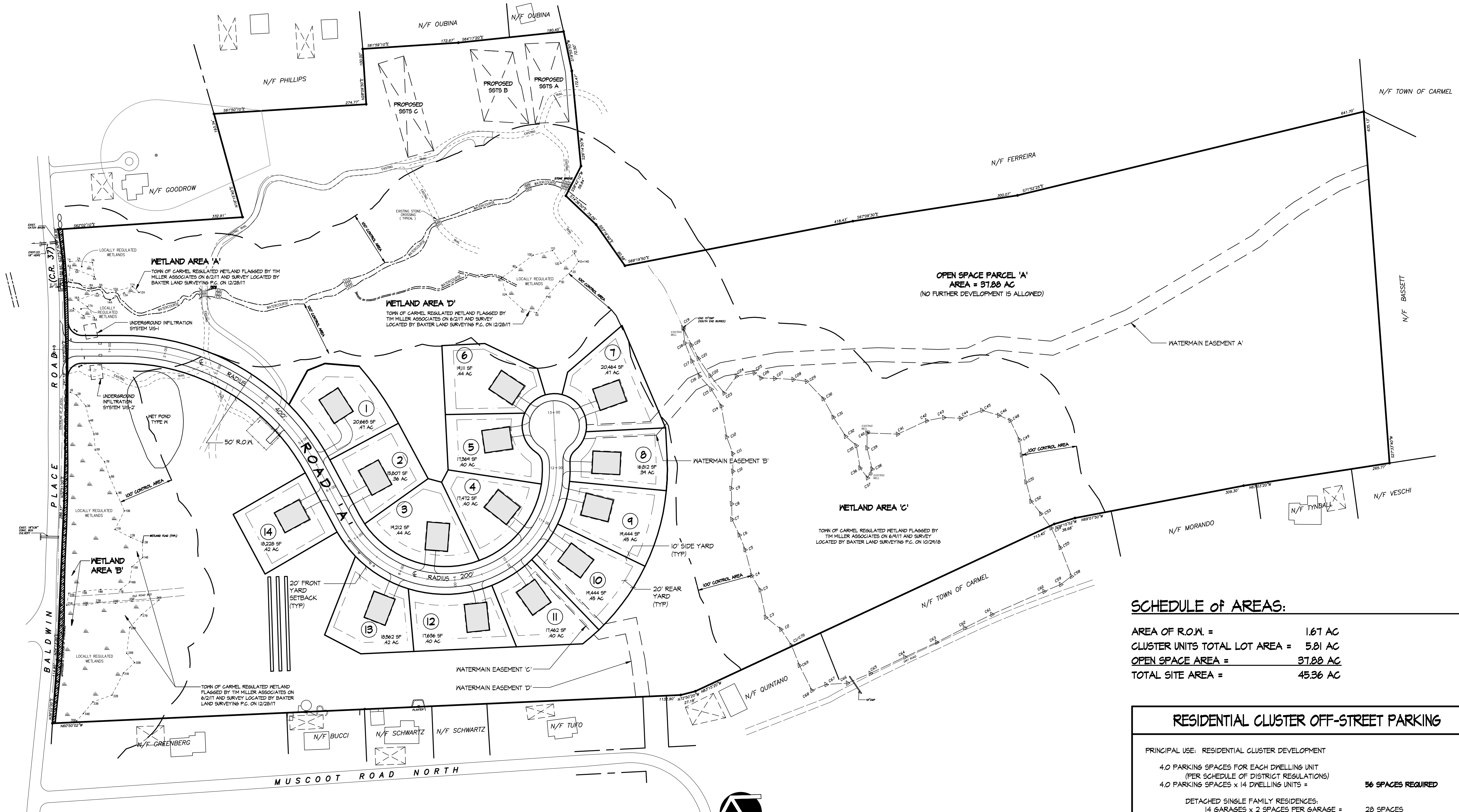
REVISIONS		PROJECT			
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	04 NOV 18	REV. PER BI, TE, TP COMMENTS			
2	02 OCT 18	REV. PER TE COMMENTS			
3	11 MAY 20	REV. PER TE COMMENTS			

PROPOSED SUBDIVISION PLAN PREPARED FOR:
OLD FORGE ESTATES
BALDWIN PLACE ROAD
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP 75.15-1-19

DATE: 12 APR 18
PROJECT MANAGER: PML
DRAWN BY: BJK
CHECKED BY: PML
SCALE: AS NOTED

DRAWING: **EXISTING CONDITIONS PLAN**

PROJECT NUMBER: 0206
DRAWING NUMBER: **C-020**
SHEET 2 OF 34



OPEN SPACE PARCEL 'A'
AREA = 31.88 AC
(NO FURTHER DEVELOPMENT IS ALLOWED)

WETLAND AREA 'C'
TOWN OF CARMEL REGULATED WETLAND FLAGGED BY THE MILLER ASSOCIATES ON 6/21/11 AND SURVEY LOCATED BY BAXTER LAND SURVEYING P.C. ON 10/24/16

SCHEDULE OF AREAS:

AREA OF R.O.W. = 1.67 AC
 CLUSTER UNITS TOTAL LOT AREA = 5.81 AC
 OPEN SPACE AREA = 31.88 AC
 TOTAL SITE AREA = 45.36 AC

RESIDENTIAL CLUSTER OFF-STREET PARKING	
PRINCIPAL USE: RESIDENTIAL CLUSTER DEVELOPMENT	
4.0 PARKING SPACES FOR EACH DWELLING UNIT (PER SCHEDULE OF DISTRICT REGULATIONS)	
4.0 PARKING SPACES x 14 DWELLING UNITS =	56 SPACES REQUIRED
DETACHED SINGLE FAMILY RESIDENCES:	
14 GARAGES x 2 SPACES PER GARAGE =	28 SPACES
14 DRIVEWAYS x 2 SPACES PER DRIVEWAY =	28 SPACES
	56 SPACES PROVIDED

RESIDENTIAL CLUSTER DEVELOPMENT BULK SCHEDULE		
RESIDENTIAL CLUSTER DEVELOPMENT	PROPOSED	PROVIDED (MIN)
MIN. LOT AREA (AC)	0.35	0.36
(S.F.)	15,250	15,807
MIN. LOT FRONTAGE (L.F.)	50	51
MIN. LOT WIDTH (FT.)	90	100
MIN. LOT DEPTH (FT.)	90	100
MINIMUM YARDS/SETBACKS		
FRONT (FT.)	20	22.5
SIDE (FT.)	10	12.5
REAR (FT.)	20	35
MAX. BLDG. HEIGHT (FT.)	35	< 35
MAX. LOT COVERAGE (%)	35	< 35
POOL:		
SIDE YARD SETBACK (FT.)	10	10
REAR YARD SETBACK (FT.)	10	10
DECK:		
SIDE YARD SETBACK (FT.)	10	10
REAR YARD SETBACK (FT.)	10	10
SHED:		
SIDE YARD SETBACK (FT.)	10	10
REAR YARD SETBACK (FT.)	10	10
POOLS AND SHEDS ARE NOT ALLOWED IN THE FRONT YARD		

RESIDENTIAL CLUSTER SUBDIVISION NOTES:

- PROJECT SITE TO BE DEVELOPED IN ACCORDANCE WITH CHAPTER 156-45 "RESIDENTIAL CLUSTER DEVELOPMENT" OF THE TOWN OF CARMEL ZONING CODE.
- BOUNDARY INFORMATION FROM SURVEY MAP OF PROPERTY, DATED NOVEMBER 14, 1985 AS PREPARED BY BURGESS & BEHR, L.S.
- TOPOGRAPHIC INFORMATION FROM A SURVEY MAP DATED JANUARY 28, 1986 AS PREPARED BY BURGESS & BEHR, L.S.
- WETLAND LOCATIONS SURVEY LOCATED BY BAXTER LAND SURVEYING, P.C. ON 12/20/11. WETLANDS FLAGGED BY THE MILLER ASSOCIATES ON 6/21/11 AND 6/19/11.
- EXISTING WATERLINE LOCATION BASED ON FIELD SURVEY ON MAY 12, 2007 BY BAXTER LAND SURVEYING, P.C.
- OWNER/APPLICANT: ANGELO MASTRANTONI
23 FRANCES DRIVE
KATONAH, NY 10526
PAUL MASTRANTONI
- CONTACT: (914) 755-0445
- SITE DATA: TOTAL LOT AREA = 1,975,697 S.F. (45,355 AC.)
TAX MAP 75-15, BLOCK 1, LOT 19
- ZONING DISTRICT: R - RESIDENTIAL
- PROPOSED USE: RESIDENTIAL CLUSTER DEVELOPMENT - 14 LOTS
- ALL UTILITIES SHALL BE INSTALLED UNDERGROUND AND IN CONFORMANCE WITH LOCAL CODES AND UTILITY COMPANY REQUIREMENTS.
- SEWER SERVICE SHALL BE PROVIDED BY COMMUNITY SUBSURFACE SEWAGE TREATMENT SYSTEM LOCATED ON-SITE AND MAINTAINED AND SERVICED BY HOMEOWNER'S ASSOCIATION. WATER SERVICE SHALL BE PROVIDED BY CONNECTION TO CARMEL WATER DISTRICT #13.
- ALL ON-SITE TRAFFIC CIRCULATION IS TWO-WAY UNLESS NOTED OTHERWISE.
- ALL SIGNAGE SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 63-11 OF THE ZONING CODE OF THE TOWN OF CARMEL.
- ALL EXTERIOR LIGHTING TO BE INSTALLED SHALL BE DOWNWARD DIRECTED AND SHALL NOT RESULT IN LIGHT SPILLING OFF THE SITE.
- THERE ARE NO AREAS PROPOSED TO BE USED FOR OUTDOOR SELLING, DISPLAY OR STORAGE.
- ALL ON-SITE DEBRIS AND GARBAGE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF.
- THE USE OF TOWN WATER FOR IRRIGATION PURPOSES IS PROHIBITED.
- PARCEL 'A' IS OPEN SPACE AND NO FURTHER DEVELOPMENT IS ALLOWED.

RESIDENTIAL CLUSTER DEVELOPMENT:

- CONDITIONS PER CHAPTER 156-45 RESIDENTIAL CLUSTER DEVELOPMENT:
- PERMITTED USES:
 - DWELLING UNITS IN DETACHED, SEMIDETACHED, ATTACHED AND/OR GROUPS OF ATTACHED.
 - DETACHED DWELLING UNITS ARE PROPOSED.
 - QUASI-PUBLIC SOCIAL, RECREATIONAL, AND CULTURAL FEATURES, SUCH AS NEIGHBORHOOD OR COMMUNITY CENTERS, GAME ROOMS, SWIMMING POOLS AND TENNIS COURTS. NO SUCH USES ARE PROPOSED.
 - AREA: A RESIDENTIAL CLUSTER DEVELOPMENT SHALL HAVE A TOTAL SITE AREA OF AT LEAST 20 ACRES IN ONE AGGREGATE OR CONTIGUOUS PARCELS. 45,355 ACRES IS PROVIDED.
 - OVERALL RESIDENTIAL DENSITY: (PER CHAPTER 156-8 DEFINITIONS) "A RESIDENTIAL CLUSTER DEVELOPMENT THAT OBTAINS A LOT COUNT THROUGH CONVENTIONAL SUBDIVISION APPROVAL, THEN DEVELOPS THE PARCEL AT THE SAME DENSITY THAT WOULD BE ALLOWED IN THE ZONING DISTRICT IN WHICH THE SITE IS LOCATED, PROVIDED THAT THE REMAINING UNDEVELOPED LAND SHALL BE RESERVED AND IMPROVED FOR PERMANENT OPEN SPACE USE." PROPOSED CLUSTER DEVELOPMENT INCLUDES 14 DETACHED DWELLING UNITS.
 - OPEN SPACE: THERE SHALL BE PROVIDED AT LEAST 95 PERCENT OF THE GROSS AREA OF A RESIDENTIAL CLUSTER DEVELOPMENT FOR OPEN SPACE, EXCLUSIVE OF STREETS OR OTHER PAVED SURFACES. 31.88 ACRES OR 83.5 PERCENT OPEN SPACE IS PROPOSED.
 - HEIGHTS, BULK COVERAGE, LOCATION AND LAND USES: IT IS REQUIRED THAT ALL STAGES OF A RESIDENTIAL CLUSTER DEVELOPMENT BE DEVELOPED ACCORDING TO A COMPREHENSIVE FINAL PLAN FOR THE OVERALL DEVELOPMENT, AS APPROVED BY THE PLANNING BOARD, WHICH SHALL CONFORM TO THE REQUIREMENTS OF THIS CHAPTER AND, IN ADDITION, SHALL BE COMPATIBLE WITH THE OTHER REQUIREMENTS OF THIS CHAPTER FOR RESIDENTIAL OR OTHER LAND USES CONTEMPLATED OR BY COMMON GOOD PRACTICE. REFER TO BULK SCHEDULE FOR PROPOSED REQUIREMENTS.

PRELIMINARY SUBDIVISION PLAN

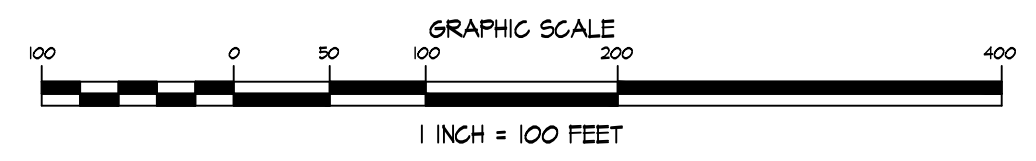


TABLE OF EASEMENTS			
EASEMENT	TYPE	GRANTEE	LOTS ENCUMBERED BY EASEMENT
A	WATER	TOWN OF CARMEL	OPEN SPACE PARCEL 'A'
B	WATER	TOWN OF CARMEL	LOTS 7 & 8
C	WATER	TOWN OF CARMEL	LOTS 10 & 11
D	WATER	TOWN OF CARMEL	OPEN SPACE PARCEL 'A'

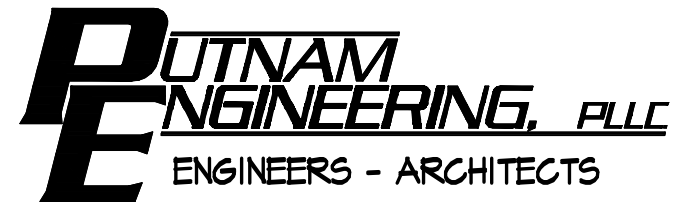
RESIDENTIAL CLUSTER DENSITY CALCULATION IN ACCORDANCE WITH 156-45E:

THE ACREAGE OF THE PARCEL BEING DEVELOPED WILL BE REDUCED BY TEN (10) PERCENT TO ALLOW FOR ROADS AND UTILITIES. THE REMAINING ACREAGE SHALL THEN BE DIVIDED BY THE MINIMUM LOT AREA FOR THE ZONING DISTRICT IN WHICH THE PARCEL IS LOCATED, THEREFORE:

A. 45,355 ACRE LESS 10% (4,535 ACRES) = 40,820 ACRES

B. (40.82 ACRES x 49,560 SF/ACRE) / 20,000 SF = 14.82 LOTS

THE PROPOSAL IS FOR 14 LOTS WHICH IS EQUAL TO THE MAXIMUM OF 14 LOTS AS CALCULATED.



4 OLD ROUTE 6, BREWSTER, NEW YORK 10509
 (845) 274-6189 FAX (845) 274-6164
 PUTNAM ENGINEERING PLLC 2016

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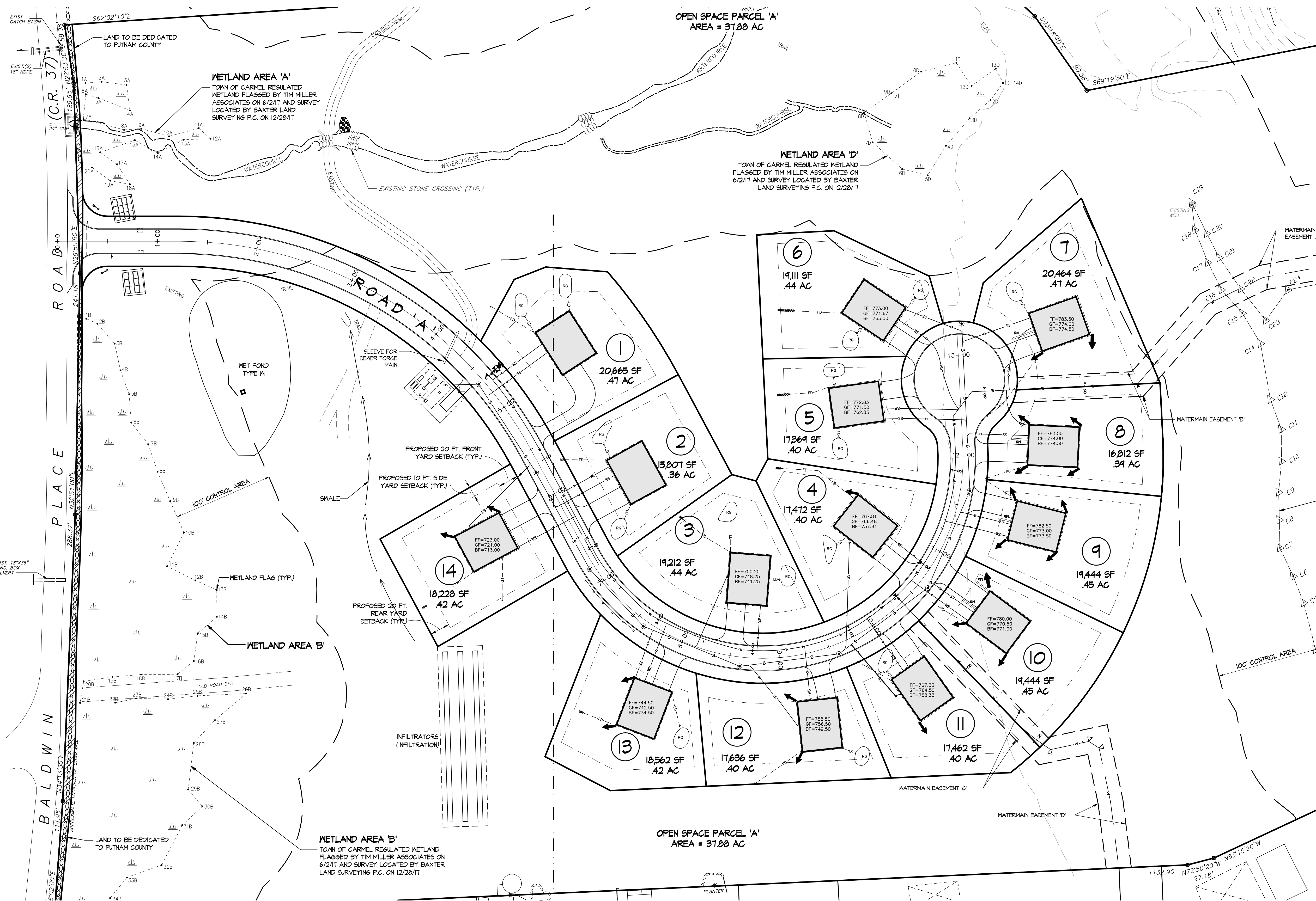
REVISIONS		PROJECT			
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	04 NOV 18	REV. PER B.L.T. TP COMMENTS			
2	02 OCT 19	REV. PER TE COMMENTS			
3	11 MAY 20	REV. PER TE COMMENTS			

PROPOSED SUBDIVISION PLAN PREPARED FOR:
OLD FORGE ESTATES
 BALDWIN PLACE ROAD
 TOWN OF CARMEL
 PUTNAM COUNTY, NEW YORK
 TAX MAP 75-15-1-19

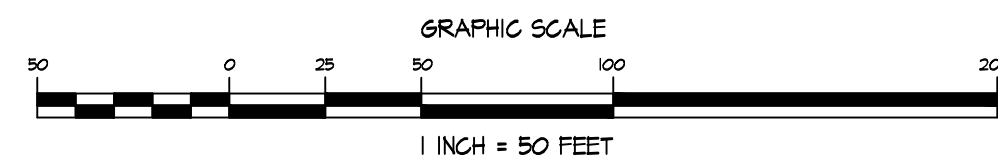
DATE: 12 APR 18
 PROJECT MANAGER: F.M.L.
 DRAWN BY: B.K.
 CHECKED BY: F.M.L.
 SCALE: AS NOTED

SUBDIVISION PLAN

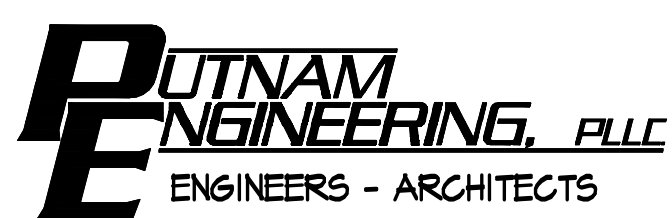
PROJECT NUMBER: 8286
 DRAWING NUMBER: **G-100**
 SHEET 9 OF 34



ENLARGED PRELIMINARY SUBDIVISION PLAN



- LEGEND:**
- FD FOOTING DRAIN
 - LD LEADER DRAIN TO TREATMENT AREA
 - ROOF DISCONNECTION (LEADER DRAIN DISCHARGES AT GRADE)
 - RG RAIN GARDEN (250 FT)
 - HW HOUSE WATER SERVICE LINE
 - SS HOUSE SEWER
 - WM WATER MAIN
 - SM SEWER MAIN
 - BOH BLOW OFF HYDRANT
 - RM RETAINING WALL



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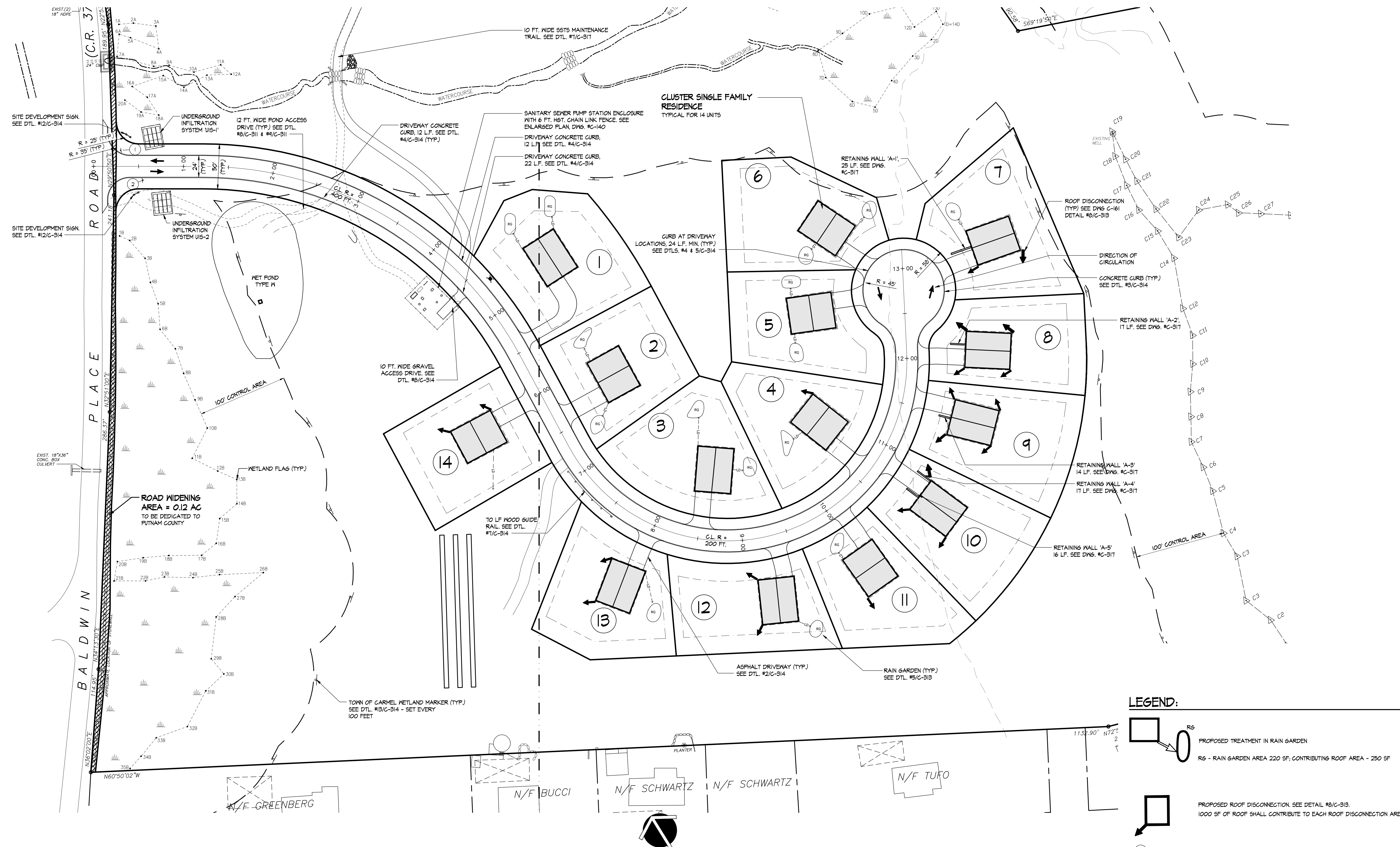
REVISIONS		PROJECT			
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	04 NOV 18	REV. PER BI, TE, TP COMMENTS			
2	02 OCT 18	REV. PER TE COMMENTS			
3	11 MAY 20	REV. PER TE COMMENTS			

PROPOSED SUBDIVISION PLAN PREPARED FOR:
OLD FORGE ESTATES
BALDWIN PLACE ROAD
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP 15.15-1-14

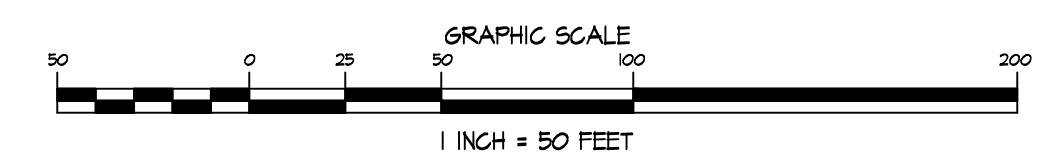
DATE: 12 APR 18
PROJECT MANAGER: PML
DRAWN BY: BJK
CHECKED BY: PML
SCALE: AS NOTED

DRAWING: ENLARGED SUBDIVISION PLAN

PROJECT NUMBER: 8286
DRAWING NUMBER: C-101
SHEET 4 OF 34



ENLARGED SITE LAYOUT PLAN



LEGEND:

- PROPOSED TREATMENT IN RAIN GARDEN
- R₆ - RAIN GARDEN AREA 220 SF; CONTRIBUTING ROOF AREA - 250 SF
- PROPOSED ROOF DISCONNECTION. SEE DETAIL #B/C-313. 1000 SF OF ROOF SHALL CONTRIBUTE TO EACH ROOF DISCONNECTION AREA.
- SIGN WITH DESIGNATION/LOCATION NUMBER (REFER TO DWG. NO. C-314)
- CURB
- RETAINING WALL
- GUIDERAIL
- POST & RAIL FENCE
- HYDRANT

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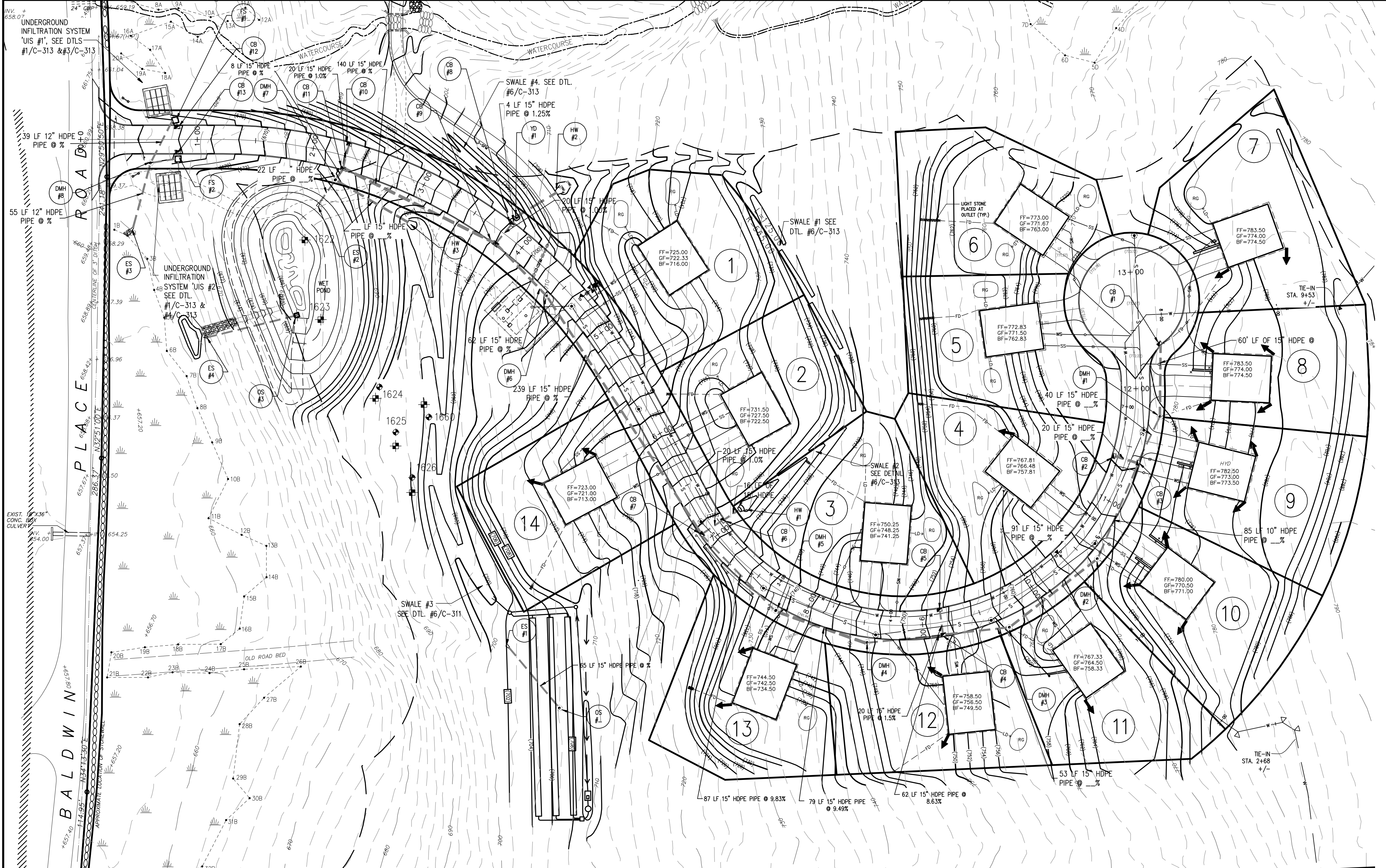
REVISIONS		PROJECT			
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	04 NOV 18	REV. PER BI, TE, TP COMMENTS			
2	02 OCT 18	REV. PER TE COMMENTS			
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PROPOSED SUBDIVISION PLAN PREPARED FOR:
OLD FORGE ESTATES
BALDWIN PLACE ROAD
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP 15.15-1-14

DATE: 12 APR 18
PROJECT MANAGER: PML
DRAWN BY: BJK
CHECKED BY: PML
SCALE: AS NOTED

DRAWING: **ENLARGED SITE LAYOUT PLAN with GREEN INFRASTRUCTURE ALLOCATION PLAN**

PROJECT NUMBER: 8286
DRAWING NUMBER: **C-110**
SHEET 5 OF 34



- GRADING NOTES:**
- BOUNDARY INFORMATION FROM SURVEY MAP OF PROPERTY, DATED NOVEMBER 14, 1985 AS PREPARED BY BURGESS & BEHR, L.S.
 - TOPOGRAPHIC INFORMATION FROM A SURVEY MAP DATED JANUARY 28, 1986 AS PREPARED BY BURGESS & BEHR, L.S.
 - WETLAND LOCATIONS SURVEY LOCATED BY BAXTER LAND SURVEYING, P.C. ON 12/28/17 AND WETLANDS FLAGGED BY TIM MILLER ASSOCIATES ON 6/2/17 AND 6/9/17.
 - EXISTING WATERLINE LOCATION BASED ON FIELD SURVEY ON MAY 12, 2007 BY BAXTER LAND SURVEYING, P.C.
 - PROVIDE 4 INCHES MINIMUM TOPSOIL, WITH SEED AND MULCH AT ALL DISTURBED AREAS.
 - CONTOUR INTERVAL = 2 FOOT. VERTICAL DATUM - NATIONAL GEODETIC SURVEY STANDARD VERTICAL DATUM OF 1929.
 - IF EXPLOSIVES ARE REQUIRED FOR BLASTING, THEY SHALL BE OF SUCH CHARACTER AND STRENGTH AND IN SUCH AMOUNT AS IS PERMITTED BY THE STATE AND LOCAL LAWS AND ORDINANCES AND ALL RESPECTIVE AGENCIES HAVING JURISDICTION OVER THEM A PERMIT WOULD BE REQUIRED FROM THE TOWN OF CARMEL.

- CONTRACTOR INSTALLATION-SEWER/WATER & DRAINAGE NOTES:**
- THE CONTRACTOR IS TO SET ALL STRUCTURES THAT ARE IN ROAD "A" AT BINDER ELEVATION IN ORDER TO COMPLY WITH THE SWPPP. ALL STRUCTURES- DMH, SMH, VALVE COVERS ARE TO BE RAISED USING RINGS WHEN TIME COMES FOR TOP COAT ASPHALT. CATCH BASIN FRAMES AND GRATES WILL HAVE TO BE MANUALLY RESET AT FINISHED GRADE.

DRAINAGE STRUCTURE SCHEDULE											
DRAIN NO.	CB #1	DMH #1	CB #2	CB #3	DMH #2	DMH #3	CB #5	CB #4	DMH #4	DMH #5	
TYPE	CB	DMH	CB	CB	DMH	DMH	CB	CB	DMH	DMH	
DOWN STREAM DR. NO.	DMH #1	CB #3	CB #3	DMH #3	DMH #3	DMH #4	CB #4	DMH #4	DMH #5	DMH #5	DMH #7
LENGTH (LF)	60	40	20	85	91	53	20	62	79	87	
T.G. / RIM	771.80						753.20	753.20	747.30	739.67	
INV. IN / DR#		---/CB #1		---/CB #2	---/CB #3	---/DMH #2		750.00	744.40/CB4	736.75/MH4	
INV. IN / DR#		---/DMH #1		---/DMH #1							
INV. OUT / DR#	---/DMH #1	---/CB #3	---/CB #3	---/DMH #2	---/DMH #3	---/CB #4	750.30/CB4	749.75/MH4	744.25/MH5	736.25/CB7	
STATION	12+37	11+77.5	11+39	11+39	10+56	9+68	9+17	9+17	8+55	7+78	
OFFSET	23' R	21' R	12' L	12' R	20' R	21' R	12' L	12' R	17' R	16.5' R	

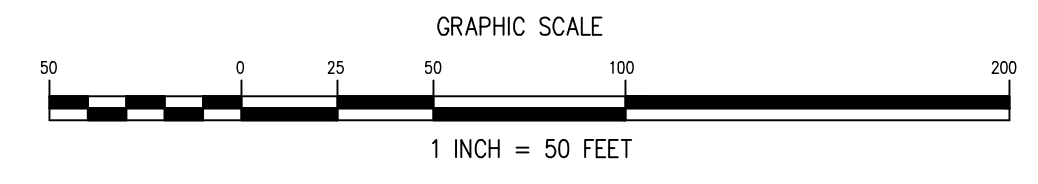
DRAINAGE STRUCTURE SCHEDULE												
DRAIN NO.	ES #1	CB #7	HW #1	CB #6	DMH #6	CB #9	HW #2	YD #1	CB #8	CB #10	CB #11	HW #3
TYPE	---	CB	HEADWALL	CB	DMH	CB	HEADWALL	YD	CB	CB	CB	HEADWALL
DOWN STREAM DR. NO.	---	DMH 6	CB 6	CB 7	CB 9	CB 11	YD 1	CB 8	CB 9	CB 11	DMH 7	DMH 7
LENGTH (LF)	---	239	16	20	62	142	40	4	20	20	9	70
T.G. / RIM	---	730.75	---	730.75	---	695.55	---	695.50	---	---	---	---
INV. IN / DR#	---	---/CB 6	---	---/HW 1	---	692.30/CB 8	---	---/HW 2	---	---/YD 1	---	---/CB 9
INV. IN / DR#	---	---/DMH 5	---	---	---	689.25	---	---	---	---	---	---/CB 10
INV. OUT / DR#	---	---/DMH 6	---/CB 6	727.70/CB 7	---	---	---/YD 1	---	---/CB 8	---/CB 9	---/CB 11	---/DMH 7
STATION	---	6+92	6+93	6+92	4+44	3+80	3+93	3+78	3+80	2+28	2+28	3+00
OFFSET	---	12' R	27' L	12' L	16' R	12' R	55' L	17.5' L	12' L	12' L	12' R	35' R

DRAINAGE STRUCTURE SCHEDULE									
DRAIN NO.	DMH #7	ES #2	CB #2	FS #1	CB #3	FS #2	DMH #8	ES #3	
TYPE	DMH	END SECTION	CB	FLOW SPLITTER	CB	FLOW SPLITTER	DMH	END SECTION	
DOWN STREAM DR. NO.	---	---	FS 1	UIS/DMH 8	FS 2	UIS/DMH 8	ES 3	---	
LENGTH (LF)	22	---	2	40	2	20	56	---	
T.G. / RIM	---	---	---	---	---	---	---	---	
INV. IN / DR#	---/HW 3	---	---	---	---	---	---/FS 1	---	
INV. IN / DR#	---/CB 11	---	---	---	---	---	---/FS 2	---	
INV. OUT / DR#	---/ES 2	---/FS 1	---/UIS	---/FS 2	---/UIS	---/DMH 8	---/ES 3	---	
STATION	2+25	2+15	0+83	0+81	0+83	0+83	0+60	0+44	
OFFSET	22' R	45' R	12' R	16.5' L	12' L	16.5' R	20' R	76' R	

DRAINAGE STRUCTURE SCHEDULE			
DRAIN NO.	OS #1	ES #4	
TYPE	---	---	
DOWN STREAM DR. NO.	---	---	
LENGTH (LF)	---	---	
T.G. / RIM	---	---	
INV. IN / DR#	---	---	
INV. IN / DR#	---	---	
INV. OUT / DR#	---	---	
STATION	---	---	
OFFSET	---	---	

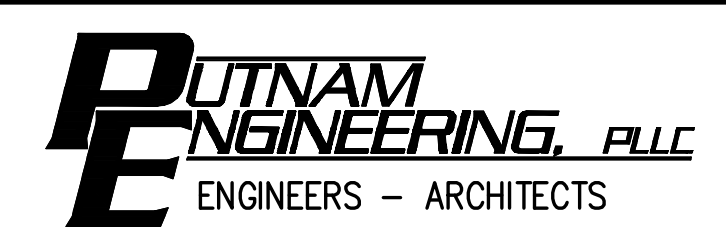
- NOTES:
- CB STATIONING AND ELEVATION IS CENTER OF STRUCTURE AT FACE OF CURB.
 - DMH, YD, HW ARE CENTER OF STRUCTURE.

GRADING & DRAINAGE PLAN



- DRAINAGE STRUCTURE SCHEDULE LEGEND:**
- CB - CATCH BASIN
 - CD - CURTAIN DRAIN
 - DMH - DRAINAGE MANHOLE
 - ES - END SECTION
 - FD - FOOTING DRAIN
 - HW - HEADWALL
 - OS - OUTLET OR OVERFLOW STRUCTURE
 - RD - ROOF DRAIN
 - YD - YARD DRAIN
 - WV - WATER QUALITY VAULT

CHECK DAM



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REVISIONS					
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	09 NOV 18	REV. PER BL, TE, TP COMMENTS			
2	02 OCT 19	REV. PER TE COMMENTS			

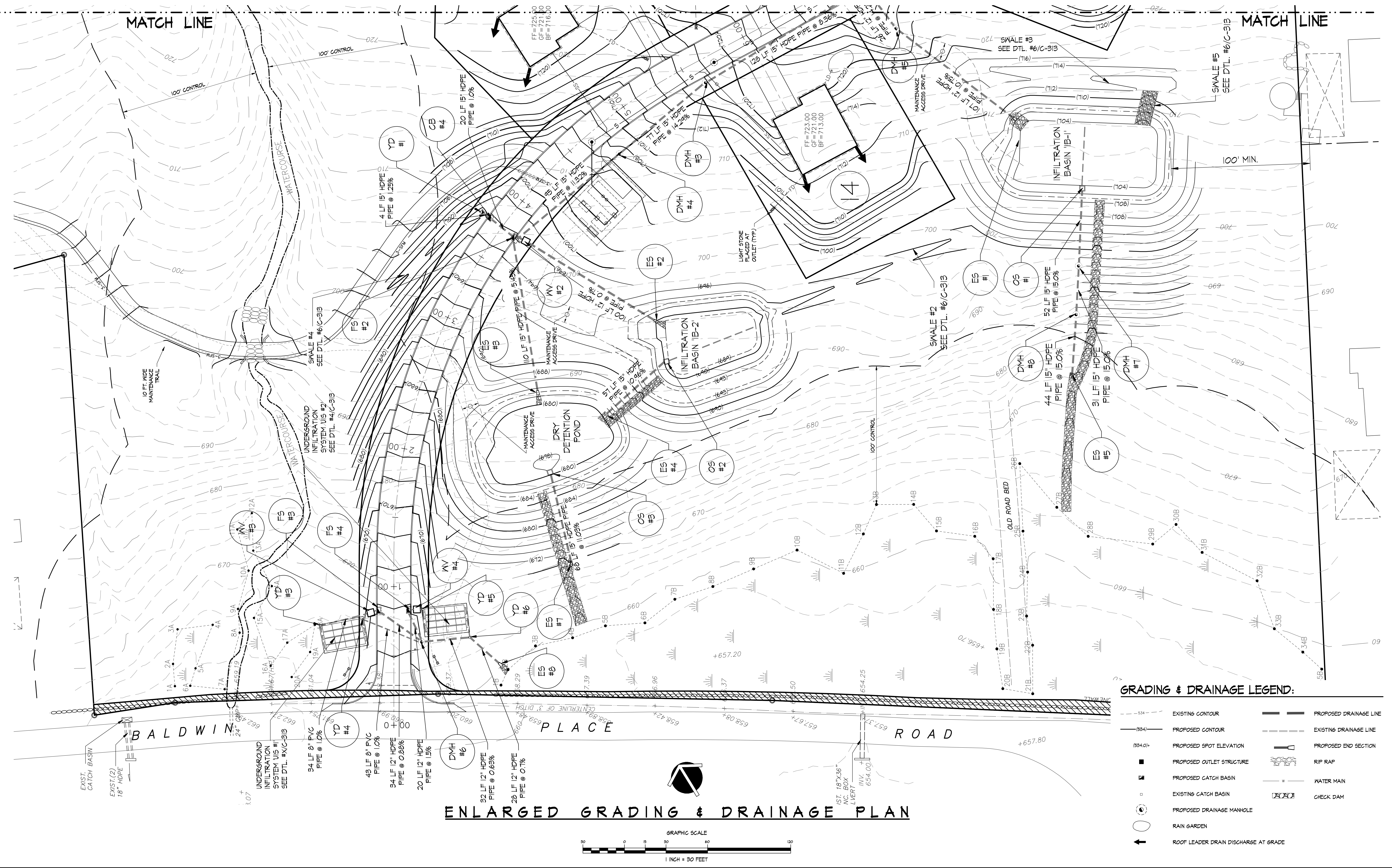
PROJECT: PROPOSED SUBDIVISION PLAN PREPARED FOR:
OLD FORGE ESTATES
BALDWIN PLACE ROAD
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP 75.15-1-19

DATE: 12 APR 18
PROJECT MANAGER: PML
DRAWN BY: BJK
CHECKED BY: PML
SCALE: AS NOTED

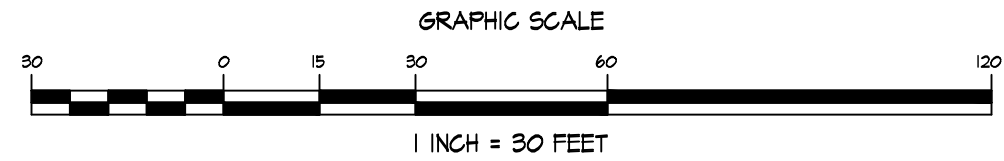
DRAWING: GRADING and DRAINAGE PLAN

PROJECT NUMBER: 8286
DRAWING NUMBER: C-120
SHEET 6 OF 34

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ENLARGED GRADING & DRAINAGE PLAN



GRADING & DRAINAGE LEGEND:

	EXISTING CONTOUR		PROPOSED DRAINAGE LINE
	PROPOSED CONTOUR		EXISTING DRAINAGE LINE
	PROPOSED SPOT ELEVATION		PROPOSED END SECTION
	PROPOSED OUTLET STRUCTURE		RIP RAP
	PROPOSED CATCH BASIN		WATER MAIN
	EXISTING CATCH BASIN		CHECK DAM
	PROPOSED DRAINAGE MANHOLE		
	RAIN GARDEN		
	ROOF LEADER DRAIN DISCHARGE AT GRADE		

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OLD FORGE ESTATES
BALDWIN PLACE ROAD
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP 75.15-1-14

DATE: 12 APR 18
PROJECT MANAGER: PML
DRAWN BY: BJK
CHECKED BY: PML
SCALE: AS NOTED

DRAWING: **ENLARGED GRADING and DRAINAGE PLAN**

PROJECT NUMBER: 8286
DRAWING NUMBER: **C-121**
SHEET 7 OF 91

BALDWIN PLACE ROAD

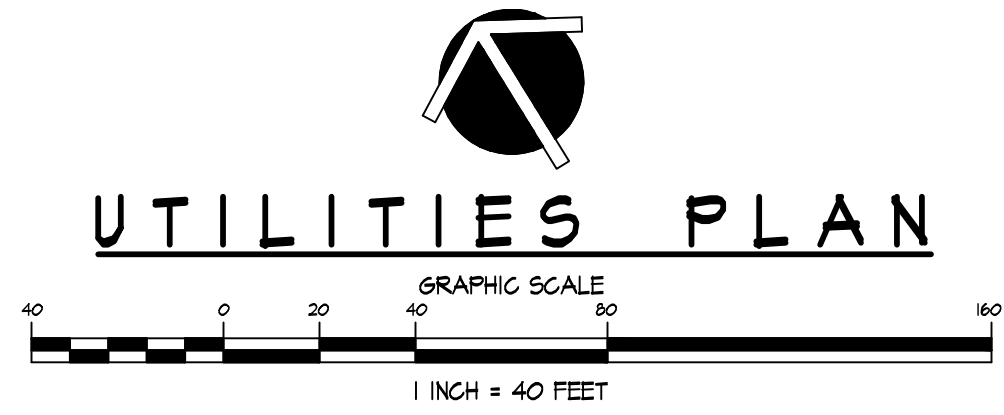
OLD ROAD BED

UTILITIES LEGEND:

- CATCH BASIN
- END SECTION
- DRAINAGE LINE
- EXISTING DRAINAGE LINE
- DRAINAGE MANHOLE
- SEWER MANHOLE
- SEWER MAIN
- SEWER SERVICE LINE WITH CLEANOUT
- WATER MAIN
- WATER SERVICE WITH VALVE
- EXISTING WATER MAIN
- EXISTING WATER MAIN TO BE REMOVED
- WATER VALVE
- T-INTERSECTION WITH WATER VALVES
- HYDRANT
- THRUST BLOCK

SS# - SEWER STRUCTURE NUMBER
SMH - SEWER MANHOLE

SEWER STRUCTURE SCHEDULE											
STRUCTURE NO.	SMH 1	SMH 2	SMH 3	SMH 4	SMH 5	SMH 6	SMH 7	SMH 8	SMH 9	SEPTIC TANK	MET WELL
TYPE	SMH	SMH	SMH	SMH	SMH	SMH	SMH	SMH	SMH	SEPTIC TANK	MET WELL
DOWNSTREAM SS#	SMH 2	SMH 3	SMH 4	SMH 5	SMH 6	SMH 7	SMH 8	SMH 9	SEPTIC TANK	MET WELL	-----
PIPE	8"	8"	8"	8"	8"	8"	8"	8"	8"	8"	XX
LENGTH (LF)	163	102	106	96	100	74	100	100	22	5	-
RIM ELEV.	719.75	711.05	766.96	751.25	747.60	731.50	729.90	718.65	706.50	-----	-----
INV. IN / from SS#	-----	767.35/SMH 1	762.60/SMH 2	759.50/SMH 3	749.15/SMH 4	730.00/SMH 5	724.00/SMH 6	714.90/SMH 7	702.75/SMH 8	700.00/SMH 9	699.12/SEP. TANK
INV. IN / from SS#	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	699.12/SEP. TANK
INV. OUT / to SS#	764.95/SMH 2	761.10/SMH 3	762.40/SMH 4	752.00/SMH 5	741.40/SMH 6	729.75/SMH 7	729.75/SMH 8	710.00/SMH 9	702.50/SEP. TANK	699.88/MET WELL	699.12/V. CHAMB.



UTILITIES NOTES:

- PER NEW YORK STATE LAW, THE CONTRACTOR SHALL CALL THE UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION (UFO) AT 1-800-462-1962, TWO (2) FULL DAYS PRIOR TO PERFORMING ANY EXCAVATION WORK.
- ALL UTILITIES SHALL BE INSTALLED UNDERGROUND AND IN CONFORMANCE WITH LOCAL CODES AND UTILITY COMPANY REQUIREMENTS.
- SEWAGE TO BE DISPOSED OF IN COMMUNITY SEWERS AREAS LOCATED ON-SITE AND MAINTAINED AND SERVICED BY A HOMEOWNER'S ASSOCIATION. WATER SERVICE SHALL BE PROVIDED BY CONNECTION TO CARMEL WATER DISTRICT #13.
- JOINTS IN SANITARY, STORM AND WATER PIPES TO BE OFFSET AT ALL CROSSINGS.
- WATER MAIN IS TO BE 8 INCH DIA. DR-18 PVC PIPE.
- MINIMUM COVER OVER WATER MAIN SHALL BE 4'-0".
- UNLESS INDICATED ON PLAN OTHERWISE, ALL WATER SERVICE CONNECTIONS SHALL BE 1 INCH DIA. COPPER PIPE, TYPE K.
- A WATER METER SHALL BE INSTALLED FOR EACH BUILDING WITH REMOTE ON EXTERIOR OF THE BUILDING. METERS TO BE PURCHASED FROM THE TOWN OF CARMEL.
- ALL DWELLINGS SHALL BE EQUIPPED WITH A PRESSURE REDUCING VALVE ON THE WATER SERVICE LINE AFTER IT ENTERS THE BUILDING TO LIMIT THE WORKING PRESSURE TO A MAXIMUM OF 10 PSI.
- TRACER WIRE (4 GA) TO BE PLACED IN ALL WATER MAIN TRENCHES AT A DEPTH OF 2'-0" BELOW FINISHED GRADE.
- GRAVITY SEWER MAIN IS TO BE 8 INCH DIA. SDR-35 PVC PIPE. HOUSE SEWER SERVICE CONNECTION PIPES SHALL BE 4 INCH DIA. SDR-35 PVC WITH 2% MINIMUM SLOPE.
- MINIMUM COVER OVER SEWER MAIN SHALL BE 3'-0". WHEN COVER OVER SEWER SERVICE CONNECTION TO THE BUILDINGS IS LESS THAN 3'-0", THE PIPE SHALL BE WRAPPED IN INSULATION TO PREVENT FREEZING.
- SEWER FORCE MAINS SHALL BE SDR-21 PVC PIPE, SIZE AS NOTED ON THE PLAN.
- MINIMUM COVER OVER SEWER FORCE MAIN SHALL BE 4'-0".
- EXISTING UTILITIES (VALVE BOXES, MANHOLE FRAMES AND COVERS, CATCH BASIN FRAMES AND GRATES, ETC.) SHALL BE ADJUSTED AS REQUIRED TO MEET NEW FINISHED GRADES.
- WHERE A 10 FOOT HORIZONTAL SEPARATION BETWEEN WATER AND SANITARY SEWER PIPES CANNOT BE ACHIEVED, 18 INCH VERTICAL SEPARATION SHALL BE PROVIDED.
- GRAVITY SANITARY MAINS AND SANITARY FORCE MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER DISTRIBUTION MAIN.
- LOCATION OF EXISTING WATERMAIN TAKEN FROM SURVEY PREPARED BY BAXTER SURVEYING IN 2007. EXACT LOCATIONS TO BE VERIFIED IN FIELD.
- REFER TO DRAWING NO. C-315 FOR ADDITIONAL FIRE HYDRANT AND WATER VALVE NOTES.

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REVISIONS		
NO.	DATE	DESCRIPTION

PROJECT: PROPOSED SUBDIVISION PLAN PREPARED FOR:
OLD FORGE ESTATES
BALDWIN PLACE ROAD
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP 75.15-1-14

DATE: 12 APR 18
PROJECT MANAGER: PML
DRAWN BY: BJK
CHECKED BY: PML
SCALE: AS NOTED

DRAWING: UTILITIES PLAN

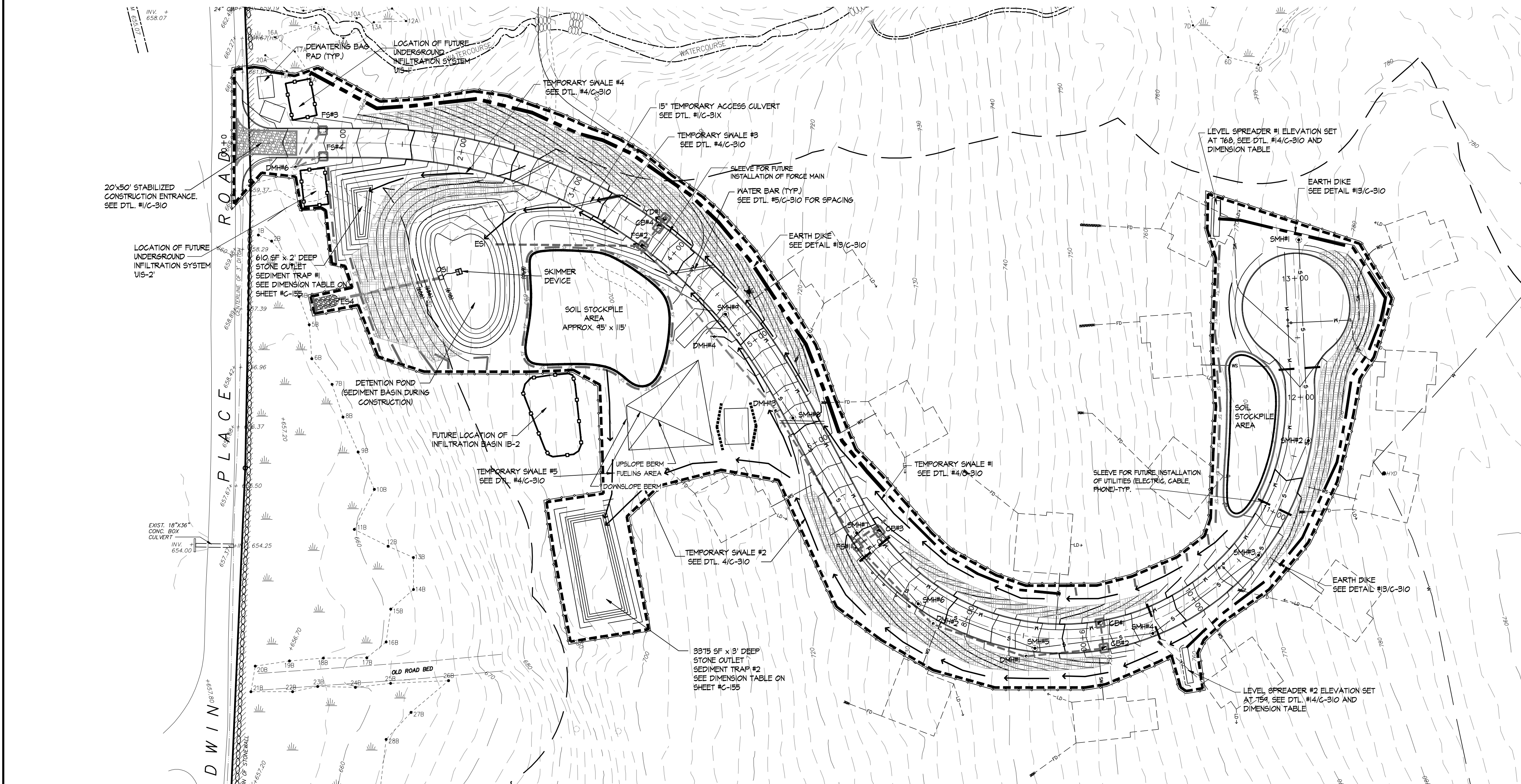
PROJECT NUMBER: 8286
DRAWING NUMBER: C-130
SHEET 4 OF 9

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SEQUENCE OF CONSTRUCTION:

PHASE I

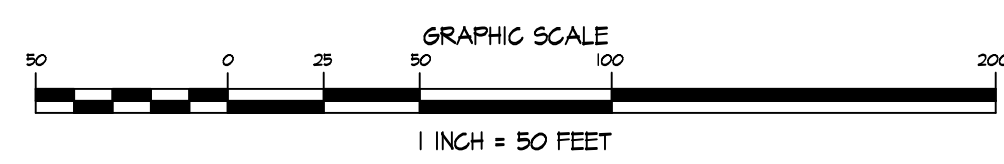
1. SURVEY AND STAKE OUT THE ROAD WITH OFFSETS AND LOCATION OF THE PROPOSED DETENTION POND. ESTABLISH LIMITS OF DISTURBANCE AND MARK IN THE FIELD.
2. INSTALL CONSTRUCTION FENCES ALONG LIMITS OF DISTURBANCE. VEHICLES TO BE INSPECTED AND CLEANED, IF REQUIRED, PRIOR TO ENTERING BALDWIN PLACE ROAD.
3. MARK IN GROUND LOCATION OF FUTURE UNDERGROUND INFILTRATION SYSTEMS U5-1 AND U5-2 AND INFILTRATION BASIN IB-2. INSTALL ORANGE SAFETY FENCE AROUND PERIMETERS OF THESE PRACTICES. NO EQUIPMENT CAN BE DRIVEN OVER THESE AREAS.
4. INSTALL STABILIZED CONSTRUCTION ENTRANCE AS SHOWN ON THE PLAN.
5. INSTALL SILT FENCES IMMEDIATELY DOWNGRADE OF AREAS OF PROPOSED DISTURBANCE AS SHOWN ON THE PLAN.
6. INSTALL SAND BEDS FOR PLACEMENT OF DEMATERING BAGS. SEE DETAIL #10/C-310. THE DEMATERING BAGS WOULD BE NEEDED IF THE CONTRACTOR HAS STANDING WATER AFTER RAIN EVENTS.
7. CLEAR AREA OF PHASE I FROM STATION 0+00 TO STATION 19+50 AND GRUB TO STA. 10+00. TREE STUMPS FROM STA. 10+00 TO STA. 19+50 TO REMAIN. STRIP TOPSOIL FROM STA. 0+00 TO STA. 10+00. STORE USABLE ORGANIC MATERIAL AT STOCKPILES. PROVIDE STOCKPILE PROTECTION PER DETAIL #5/C-310.
8. BRING IN ALL EQUIPMENT AND MATERIALS NECESSARY TO PERFORM PHASE I OF CONSTRUCTION. ESTABLISH STAGING AREA AS SHOWN ON THE PLAN.
9. EXCAVATE DETENTION POND TO ACT AS TEMPORARY SEDIMENT BASIN PER DETAIL #1/C-155.
10. EXCAVATE ROAD BED FOR ADDITIONAL FILL NECESSARY TO CREATE POND EMBANKMENTS. FILL MATERIAL SHALL BE FREE FROM ROOTS, VEGETATION AND OVERSIZED STONES. FILL TO BE PLACED IN 12 INCH LIFTS AND COMPACTED TO 95% DRY DENSITY BY MECHANICAL MEANS.
11. INSTALL OUTLET STRUCTURE #0S1 ALONG WITH DISCHARGE PIPE. PLUG OUTLET PIPE FROM THE TEMPORARY OUTLET STRUCTURE.
12. EXCAVATE STONE OUTLET SEDIMENT TRAPS #1 & #2 WHERE SHOWN ON THE PLAN. REFER TO DIMENSIONAL TABLE ON SHEET #C-155 AND DETAIL #12/C-310.
13. THE SEDIMENT BASIN, SEDIMENT TRAPS AND ALL DISTURBED AREAS MUST BE STABILIZED WITHIN ONE (1) WEEK FOLLOWING THE EARTHWORK. NO FURTHER CONSTRUCTION IS ALLOWED BEFORE THESE AREAS ARE STABILIZED.
14. ONCE THE TEMPORARY SEDIMENT BASIN IS COMPLETED AND STABILIZED, PROCEED WITH WORK.
15. CONNECT SKIMMER DEVICE TO THE POND DRAIN PIPE. REMOVE PLUGS FROM THE OUTLET PIPE FROM THE OUTLET STRUCTURE (OS).
16. INSTALL EARTH DIKE ALONG NORTHERN PERIMETERS OF THE DISTURBANCE FOR THAT PORTION OF THE ROAD LOCATED BETWEEN STA. 0+50 AND 8+75 TO DIVERT CLEAN STORMWATER FROM UNDISTURBED AREAS UPGRADE.
17. EXCAVATE TEMPORARY SWALES #1 AND #2 BETWEEN STA. 6+00 AND 10+00 AS SHOWN ON THE PLAN.
18. ROUGH GRADE THE ROAD BETWEEN STA. 0+00 AND 6+00. EXCAVATE TEMPORARY SWALES #1 AND #2 ALONG THE ROAD SHOULDERS AS EXCAVATION PROGRESSES AS SHOWN ON THE PLAN.
19. INSTALL WATER BARS PER DETAIL #15/C-310.
20. EXCAVATED SOIL TO BE DEPOSITED ON THAT PORTION OF THE ROAD WHERE FILL IS REQUIRED (BETWEEN STA. 6+00 AND 10+00). THE ADDITIONAL EXCAVATED SOIL SHALL BE STORED AT STOCKPILE WHERE SHOWN ON THE PLAN. THIS SOIL SHALL BE NEEDED TO CREATE BUILDING FILL PADS ON LOTS II THRU IV (PHASE 3 OF CONSTRUCTION).
21. STABILIZE ALL DISTURBED AREAS WITHIN ONE (1) WEEK FOLLOWING THE EARTHWORK. NO FURTHER CONSTRUCTION IS ALLOWED BEFORE THESE AREAS ARE STABILIZED. PLACE 4 INCHES OF TOPSOIL ON EXPOSED SLOPE AND INSTALL EROSION CONTROL BLANKET AS SHOWN IN DETAIL #5/C-310.
22. EXCAVATE TRENCHES FOR INSTALLATION OF WATER, STORMWATER AND SEWER PIPES ALONG THE ROAD TO STA. 6+00. INSTALL SEWER MANHOLES SM#8 & SM#1. INSTALL CATCH BASIN CB#4. MANHOLES DM#4 & DM#8. FLOW SPLITTERS FS#2, FS#3, FS#4. YARD DRAIN YD#1 AND END SECTION ES#2. STRUCTURES TO BE INSTALLED STARTING FROM DOWNHILL STRUCTURE TO UPHILL STRUCTURE. SEE SHEETS #C-120 AND C-140 FOR ALL RIM AND INVERT ELEVATIONS. TRENCHES TO BE BACKFILLED IMMEDIATELY UPON COMPLETION OF INSTALLATION OF PIPES AND MANHOLES. EXPOSED SOIL TO BE STABILIZED IMMEDIATELY AFTER BACKFILL. INSTALLATION OF WATER, SEWER AND STORM PIPES SHALL BE PERFORMED CONCURRENTLY.
23. RIMS OF STRUCTURES INSTALLED IN PAVED AREAS SHALL BE SET AT BINDER COURSE ELEVATION PER DETAIL #5/C-311. PROTECT CATCH BASIN PER CONSTRUCTION DETAIL. THE STRUCTURES ARE NOT TO RECEIVE ANY STORMWATER FLOW UNTIL ASPHALT BINDER COURSE IS PLACED.
24. INSTALL SLEEVE UNDER THE ROAD NEAR STA. 3+85 FOR FUTURE INSTALLATION OF SEWER FORCE MAIN.
25. AFTER THE TRENCH WORK IS COMPLETED, INSTALL CONCRETE CURBING FROM STA. 0+00 TO 6+00. THE PROPOSED ROAD SHALL BE PAVED WITH BINDER COURSE PER DETAIL #1/C-314 TO STA. 6+00.
26. STABILIZE ALL DISTURBED AREAS WITHIN ONE (1) WEEK FOLLOWING THE EARTHWORK. NO FURTHER CONSTRUCTION IS ALLOWED BEFORE THESE AREAS ARE STABILIZED.
27. PROCEED WITH GRUBBING/STUMPING THE ROAD FROM STA. 10+00 TO THE END (STA. 19+50).
28. INSTALL ADDITIONAL SILT FENCES WHERE SHOWN ON THE PLAN.
29. EXTEND TEMPORARY SWALES AS SHOWN ON THE PLAN.
30. EXCAVATE LEVEL SPREADER #1 AND #2 WHERE SHOWN ON THE PLAN. INSTALL EARTH DIKE ALONG EASTERLY PERIMETERS OF THE DISTURBANCE FOR THAT PORTION OF THE ROAD LOCATED BETWEEN STA. 4+60 AND 19+50 TO DIVERT CLEAN STORMWATER FROM UNDISTURBED AREAS UPGRADE. FLOW FROM THE DIKES SHALL TERMINATE AT THE PROVIDED LEVEL SPREADERS.
31. GRADE THE ROAD FROM STA. 6+00 TO 10+00. FILL TO BE PLACED IN 12 INCH LIFTS AND COMPACTED TO 95 PERCENT DRY DENSITY BY MECHANICAL MEANS.
32. ROUGH GRADE ROAD AND CUL-DE-SAC TO STA. 19+50. TRUCK OUT THE EXCAVATED SOIL OFF THE SITE.
33. CONTINUE WATER BAR INSTALLATION AS ROAD GRADING PROGRESSES.
34. STABILIZE ALL DISTURBED AREAS WITHIN ONE (1) WEEK FOLLOWING THE EARTHWORK. NO FURTHER CONSTRUCTION IS ALLOWED BEFORE THESE AREAS ARE STABILIZED. PLACE 4 INCHES OF TOPSOIL ON EXPOSED SLOPES AND INSTALL EROSION CONTROL BLANKET AS SHOWN IN DETAIL #5/C-310.
35. EXCAVATE TRENCHES FOR INSTALLATION OF WATER, STORMWATER AND SEWER PIPES ALONG THE ROAD FROM STA. 6+00 TO STA. 19+50. INSTALL SEWER MANHOLES SM#1 TO SM#11. INSTALL CATCH BASINS CB#1 TO CB#3, MANHOLES DM#1 & DM#2, AND FLOW SPLITTER FS#1. STRUCTURES TO BE INSTALLED STARTING FROM DOWNHILL STRUCTURE TO UPHILL STRUCTURE. SEE DRAWINGS #C-130 AND C-140 FOR ALL RIM AND INVERT ELEVATIONS.
36. INSTALL SLEEVES UNDER THE ROAD NEAR STATIONS 7+00, 4+62, 11+05 AND 12+24 FOR FUTURE INSTALLATION OF UTILITY CABLES.
37. INSTALL PORTION OF THE PIPE DM#4-FS#1 WHICH GOES UNDER THE ROAD. PLUG END OF THE PIPE.
38. INSTALL THE 3 WAY TEES ON WATER LINE AT ROAD STA. 10+31 AND 12+63 FOR FUTURE CONNECTION TO THE EXISTING WATERMAIN.
39. TRENCHES TO BE BACKFILLED IMMEDIATELY UPON COMPLETION OF INSTALLATION OF PIPES AND MANHOLES. EXPOSED SOIL TO BE STABILIZED IMMEDIATELY AFTER BACKFILL. TEST WATER MAIN TO LIMIT WORK WITHIN ROAD ROW. INSTALLATION OF STORMWATER, WATER AND STORM PIPES SHALL BE PERFORMED CONCURRENTLY.
40. RIMS OF STRUCTURES INSTALLED IN PAVED AREAS SHALL BE SET AT BINDER COURSE ELEVATION PER DETAIL #5/C-311. PROTECT CATCH BASINS PER CONSTRUCTION DETAIL. THE STRUCTURES ARE NOT TO RECEIVE ANY STORMWATER FLOW UNTIL ASPHALT BINDER COURSE IS PLACED.
41. AFTER THE TRENCH WORK IS COMPLETED, INSTALL CONCRETE CURB. THE PROPOSED ROAD SHALL BE PAVED WITH BINDER COURSE PER DETAIL #1/C-314 TO STA. 19+50. TEST SEWER MAINS AND MANHOLES.
42. NO FURTHER CONSTRUCTION IS ALLOWED BEFORE ALL DISTURBED AREAS AS DESCRIBED IN PHASE I OF SEQUENCE OF CONSTRUCTION ARE STABILIZED.



EROSION CONTROL LEGEND:

- EXISTING DRAINAGE PIPE
- EXISTING CONTOURS
- PROPOSED CONTOURS
- STABILIZED CONSTRUCTION ENTRANCE
- TEMPORARY STAGING AREA
- LIMITS OF DISTURBANCE
- EARTH DIKE
- TEMPORARY SOIL STOCKPILE
- INLET PROTECTION
- SILT FENCE
- EROSION CONTROL BLANKET
- CONSTRUCTION FENCE
- ORANGE SAFETY FENCE
- CHECK DAM
- LEVEL SPREADER
- TEMPORARY SWALE

EROSION & SEDIMENT CONTROL PLAN - PHASE I



TEMPORARY SEDIMENT TRAP & BASIN VOLUMES

1. SEDIMENT BASIN:
CONTRIBUTING AREA AT PHASE I - 1.05 AC
REQUIRED VOLUME FOR THAT PORTION OF THE ROAD LOCATED BETWEEN STA. 4+60 AND 19+50 TO DIVERT CLEAN STORMWATER FROM UNDISTURBED AREAS UPGRADE. FLOW FROM THE DIKES SHALL TERMINATE AT THE PROVIDED LEVEL SPREADERS.
VOLUME PROVIDED - 46,354 CF
SEDIMENT REMOVAL ELEVATION - 614.24
2. SEDIMENT TRAP #1:
CONTRIBUTING AREA - 0.22 AC
REQUIRED VOLUME - 3600 CF PER ACRE X 0.22 ACRES = 792 CF
PROVIDED - 145 CF
SEDIMENT REMOVAL ELEVATION - 619.20
3. SEDIMENT TRAP #2:
CONTRIBUTING AREA - 0.71 AC
REQUIRED VOLUME - 3600 CF PER ACRE X 0.71 ACRES = 2556 CF
PROVIDED - 1410 CF
SEDIMENT REMOVAL ELEVATION - 612.61

TEMPORARY SWALE DIMENSIONAL CHART

REFER TO DETAIL #4/C-310

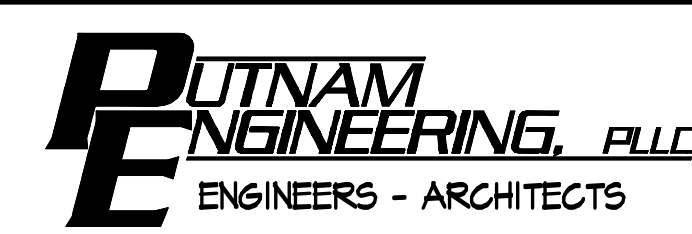
SWALE #	BOTTOM WIDTH (FT)	DEPTH (FT)	SIDE SLOPE (FT/FT)	LENGTH (FT)	SLOPE (%)
1	1.0	0.75	2:1	730	11.0
2	1.0	0.75	2:1	610	11.8
3	1.0	1.0	2:1	360	11.1
4	1.0	0.75	2:1	80	2.3
5	1.0	1.25	2:1	120	2.1

LEVEL SPREADER DIMENSIONS

REFER TO DETAIL #18/C-310

LEVEL SPREADER #	Ø (FT)	DEPTH (INCH)	WIDTH (FT)	LENGTH (FT)
1	0.37	6	3	10
2	2.18	6	3	20

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4 OLD ROUTE 6, BREWSTER, NEW YORK 10504
(845) 279-6789 FAX (845) 279-6769
● PUTNAM ENGINEERING PLLC 2018

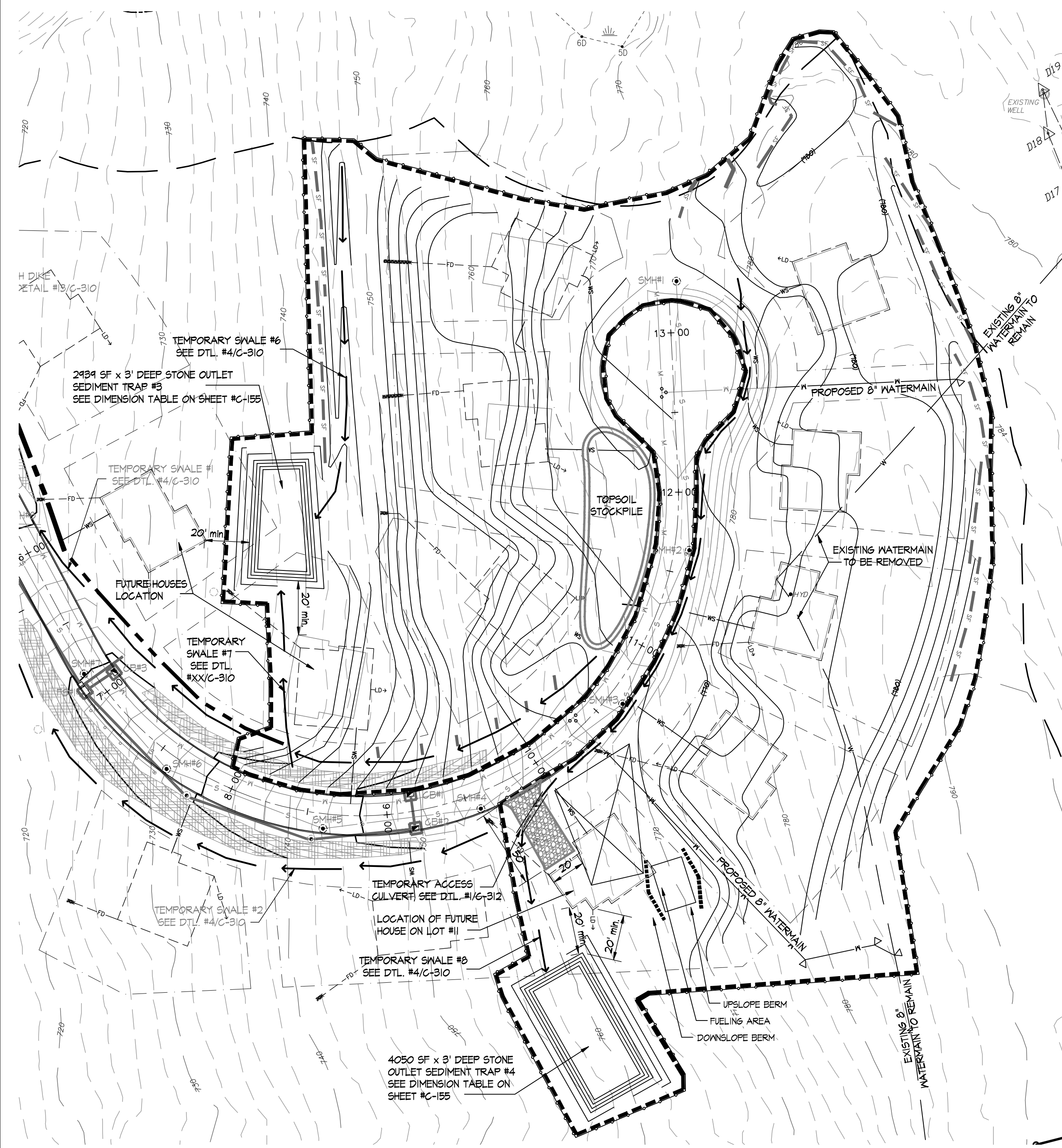
PURSUANT TO NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 7209 SUBDIVISION 2, "IT IS A VIOLATION OF THIS LAW FOR ANY PERSON UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION."

REVISIONS		
NO.	DATE	DESCRIPTION

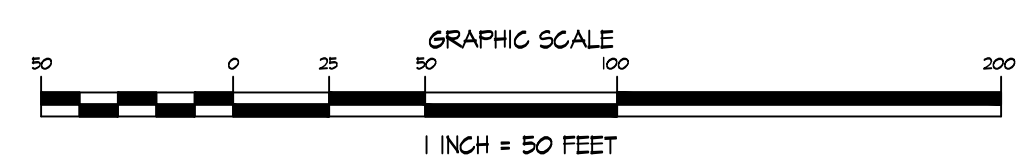
PROJECT
PROPOSED SUBDIVISION PLAN PREPARED FOR:
OLD FORGE ESTATES
BALDWIN PLACE ROAD
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP 75.15-1-14

DATE
12 APR 18
PROJECT MANAGER
PML
DRAWN BY
BJK
CHECKED BY
PML
SCALE
AS NOTED

DRAWING
EROSION and SEDIMENT CONTROL PLAN PHASE I
PROJECT NUMBER
8286
DRAWING NUMBER
C-150
SHEET 13 OF 31



EROSION & SEDIMENT CONTROL PLAN - PHASE 2



SEQUENCE OF CONSTRUCTION:

- PHASE 2**
DISTURBANCE AREA = 4.93 AC.
1. ESTABLISH LIMITS OF DISTURBANCE AND MARK IN THE FIELD. INSTALL CONSTRUCTION FENCE ALONGS LIMITS OF DISTURBANCE.
 2. INSTALL STABILIZED CONSTRUCTION ENTRANCE NEAR STA. 10+00 OF THE CONSTRUCTED ROAD. INSTALL TEMPORARY ACCESS CULVERT FOR FUTURE TEMPORARY SWALE #8 CROSSING THE STABILIZED CONSTRUCTION ENTRANCE. REFER TO DETAIL #4/C-310.
 3. INSTALL ADDITIONAL SILT FENCE IMMEDIATELY DOWNSLOPE OF AREAS OF PROPOSED DISTURBANCE AS SHOWN ON THE PLAN.
 4. CLEAR AND GRUB AREA OF PHASE 2 TO THE LIMITS OF DISTURBANCE SHOWN ON THE PLAN.
 5. BRING IN ALL EQUIPMENT AND MATERIALS NECESSARY TO PERFORM PHASE 2 OF CONSTRUCTION. ESTABLISH STAGING AREA AS SHOWN ON THE PLAN.
 6. CLEAR AND PREPARE AREA FOR THE PROPOSED CONSTRUCTION. STRIP TOPSOIL AND STORE USABLE ORGANIC MATERIAL AT STOCKPILE. PROVIDE STOCKPILE PROTECTION PER DETAIL #3/C-310.
 7. STAKE OUT CORNERS OF THE FUTURE HOUSES ON LOTS #2, 3 & 4 AS SHOWN ON THE PLAN. EXCAVATE SEDIMENT TRAPS #3 & 4. THE TRAPS SHALL NOT BE LOCATED CLOSER THAN 20 FEET FROM THE STAKED OUT BUILDING CORNERS.
 8. EXCAVATE TEMPORARY SWALES #6, 7 & 8.
 9. STABILIZE ALL DISTURBED AREAS AS DESCRIBED IN 'STABILIZATION NOTES' WITHIN ONE (1) WEEK FOLLOWING THE EARTHWORK. NO FURTHER CONSTRUCTION IS ALLOWED BEFORE THESE AREAS ARE STABILIZED.
 10. CONTRACTOR TO START CUT/FILL OPERATIONS.
 11. EXCAVATE THE SITE EAST OF THE CONSTRUCTED ROAD. DEPOSIT EXCAVATED SOIL WEST OF THE PROPOSED ROAD. TRUCKS SHALL NOT CROSS THE ROAD. THE SOIL TRANSPORTATION SHALL BE DONE OVER LAND NORTH OF THE CUL-DE-SAC.
 12. INSTALL WATERMAIN SEGMENTS FROM ROAD TO THE EXISTING WATERMAIN AS OUTLINED IN 'WATERMAIN INSTALLATION SEQUENCE OF CONSTRUCTION' ON SHEET #C-XXXX PERFORM TESTING AND THEN TIE IN. AS EXCAVATION PROGRESSES, REMOVE ABANDONED SECTION OF WATERMAIN.
 13. CREATE YARDS AND BUILDING PADS FOR THE FUTURE HOUSE CONSTRUCTION. WHERE FILL IS NEEDED TO CREATE THE PADS IT SHOULD BE FREE FROM ROOTS, VEGETATION AND OVERSIZED STONES. FILL TO BE PLACED IN 12 INCH LIFTS AND COMPACTED TO 45 PERCENT DRY DENSITY BY MECHANICAL MEANS.
 14. STABILIZE ALL AREAS DISTURBED IN PHASE 2 OF CONSTRUCTION AS DESCRIBED IN 'STABILIZATION NOTES' WITHIN ONE (1) WEEK FOLLOWING THE EARTHWORK. NO FURTHER CONSTRUCTION IS ALLOWED BEFORE THESE AREAS ARE STABILIZED.

ON-SITE POLLUTION CONTROL MEASURES:

1. THERE SHALL BE A RECEPTACLE PLACED ON THE SITE TO TEMPORARILY STORE GARBAGE, DEBRIS OR CONSTRUCTION WASTE MATERIAL. THE CONTAINER SHALL NOT BE USED TO TRANSFER ANY GARBAGE FROM ANY OTHER OFF-SITE ACTIVITY.
2. THE RECORD OWNER SHALL BE RESPONSIBLE FOR KEEPING THE SITE FREE OF LITTER AT ALL TIMES. DURING CONSTRUCTION ACTIVITIES THE OWNER MAY DESIGNATE A CONTRACTOR IN CHARGE AS A RESPONSIBLE PARTY.
3. THE SITE SHALL BE INSPECTED AT THE END OF EACH WORKDAY AND TRASH, DEBRIS AND GARBAGE SHALL BE PICKED UP AND PLACED IN ON-SITE DUMPSTERS OR OTHERWISE REMOVED FROM THE SITE.
4. A PORTABLE TOILET FACILITY SHALL BE PROVIDED FOR CONSTRUCTION WORKERS AND AN ADDITIONAL FACILITY FOR EVERY 10 ON-SITE WORKERS.
5. CONSTRUCTION VEHICLES SHALL BE SERVICED OFF-SITE AT A PROPER FACILITY. LEAKING OR ILL REPAIRED VEHICLES SHALL NOT BE LOCATED ON SITE. NO OIL CHANGES ARE PERMITTED ON SITE. FUELINGS OF VEHICLES ON SITE SHALL BE CAREFULLY PERFORMED WITH AN APPROVED DISPENSER NOZZLE HOSE AND PUMP. SPILLS SHALL PROMPTLY BE REPORTED TO THE NYSDEC AND TOWN. OIL ABSORBENT PADS AND ROLLS SHALL BE USED TO TEMPORARILY CONTAIN ANY SPILLS.
6. CHEMICAL SOIL ADDITIVES OR HERBICIDES SHALL NOT BE USED ON SITE DURING CONSTRUCTION.
7. THE CONTAINERS SHALL BE OF SUFFICIENT SIZE FOR THE CONSTRUCTION ACTIVITY. CONTAINERS SHALL BE EMPLOYED BY AN APPROVED CARTER TO A PROPER FACILITY WHEN FULL. CONTAINERS SHALL BE COVERED TO PREVENT INFILTRATION OF RAIN AND TO PREVENT WIND BORNE DEBRIS REMOVAL.
8. PAINTS, CHEMICALS OR OTHER TOXIC SUBSTANCES SHALL NOT BE PLACED IN TRASH CONTAINERS. PAINTS, CHEMICALS OR TOXIC SUBSTANCES SHALL BE REMOVED FROM SITE BY AN APPROVED LICENSED CARTER.
9. THERE SHALL BE NO OPEN FIRES OR BARREL FIRES PERMITTED.
10. DEBRIS OR TRASH PILES ARE NOT PERMITTED. DEBRIS SHALL BE PLACED IN CONTAINERS. TEMPORARY PILES OF BRUSH OR STUMPS SHALL BE PROTECTED BY SILT FENCE SIMILAR TO TOPSOIL STOCKPILES.

VEHICLE & EQUIPMENT FUELING and NET NOZZLE REPORT:

DESCRIPTION AND PURPOSE
VEHICLE EQUIPMENT FUELING PROCEDURES AND PRACTICES ARE DESIGNED TO PREVENT FUEL SPILLS AND LEAKS, AND REDUCE OR ELIMINATE CONTAMINATION OF STORMWATER. THIS CAN BE ACCOMPLISHED BY FUELING IN DESIGNATED AREAS ONLY, IMPLEMENTING SPILL CONTROLS, AND TRAINING EMPLOYEES AND SUBCONTRACTORS IN PROPER FUELING PROCEDURES.

SUITABLE APPLICATIONS
THESE PROCEDURES ARE SUITABLE ON ALL CONSTRUCTION SITES WHERE VEHICLE AND EQUIPMENT FUELING TAKES PLACE.

LIMITATIONS
ON-SITE VEHICLE AND EQUIPMENT FUELING SHOULD ONLY BE USED WHERE IT IS IMPRACTICAL TO SEND VEHICLES AND EQUIPMENT OFFSITE FOR FUELING.

- IMPLEMENTATION**
- DISCOURAGE 'TOPPING-OFF' OF FUEL TANKS.
 - ABSORBENT TRUCK CLEANUP MATERIALS AND SPILL KITS SHALL BE AVAILABLE IN FUELING AREAS AND ON FUELING TRUCKS, AND SHOULD BE DISPOSED OF PROPERLY AFTER USE.
 - DRIP PANS OR ABSORBENT PADS SHOULD BE USED DURING VEHICLE AND EQUIPMENT FUELING, UNLESS THE FUELING IS PERFORMED OVER AN IMPERMEABLE SURFACE IN A DEDICATED FUELING AREA.
 - USE ABSORBENT MATERIALS ON SMALL SPILLS. DO NOT HOSE DOWN OR BURY THE SPILL. REMOVE THE ABSORBENT MATERIALS PROMPTLY AND DISPOSE OF PROPERLY.
 - AVOID MOBILE FUELING OF MOBILE CONSTRUCTION EQUIPMENT AROUND THE SITE. RATHER, TRANSPORT THE EQUIPMENT TO DESIGNATED FUELING AREAS. WITH THE EXCEPTION OF TRACKED EQUIPMENT SUCH AS BULLDOZERS AND LARGE EXCAVATORS, MOST VEHICLES SHOULD BE ABLE TO TRAVEL TO A DESIGNATED AREA WITH LITTLE LOST TIME.
 - EMPLOYEES AND SUBCONTRACTORS SHALL BE TRAINED IN PROPER FUELING AND CLEANUP PROCEDURES.
 - WHEN FUELING MUST TAKE PLACE OUTSIDE, DESIGNATE AN AREA AWAY FROM DRAINAGE COURSES TO BE USED.
 - DEDICATED FUELING AREAS SHOULD BE PROTECTED FROM STORMWATER RUNOFF AND RAINFALL, AND SHOULD BE LOCATED AT LEAST 50 FEET AWAY FROM DOWNSTREAM DRAINAGE FACILITIES AND WATERCOURSES. FUELING MUST BE PERFORMED ON LEVEL-GRADE AREAS.
 - PROTECT FUELING AREAS WITH BERMS AND DIKES TO PREVENT RUNOFF, AND TO CONTAIN SPILLS.
 - NOZZLE USED IN VEHICLE AND EQUIPMENT FUELING SHOULD BE EQUIPPED WITH AN AUTOMATIC SHUTOFF TO CONTROL DRIPS. FUELING OPERATIONS SHOULD NOT BE LEFT UNATTENDED.
 - FEDERAL, STATE AND LOCAL REQUIREMENTS SHOULD BE OBSERVED FOR ANY STATIONARY ABOVE GROUND STORAGE TANKS.

- INSPECTION AND MAINTENANCE**
- VEHICLES AND EQUIPMENT SHOULD BE INSPECTED EACH DAY OF USE FOR LEAKS. LEAKS SHOULD BE REPAIRED IMMEDIATELY OR PROBLEM VEHICLES OR EQUIPMENT SHOULD BE REMOVED FROM THE PROJECT SITE.
 - KEEP AMPLIE SUPPLIES OF SPILL CLEANUP MATERIALS ON-SITE.
 - IMMEDIATELY CLEAN UP SPILLS AND PROPERLY DISPOSE OF CONTAMINATED SOIL AND CLEANUP MATERIALS.

STABILIZATION NOTES:

1. TEMPORARY VEGETATIVE COVER:
 - A. SCARIFY COMPACTED SOIL AREAS.
 - B. LIME AS REQUIRED TO PH 6.5.
 - C. FERTILIZE WITH 10-10-10 AT RATE 200 LBS/AC.
 - D. INCORPORATE AMENDMENTS INTO SOIL WITH DISC HARROW.
 - E. SEED AS FOLLOWS:
 - SPRING/SUMMER/EARLY FALL PLANTING: ANNUAL RYEGRASS AND CEREAL OATS @ 30 LBS./AC. LATE FALL/EARLY WINTER PLANTING: ARROSTOCK WINTER RYE @ 100 LBS./AC.
 - F. MULCH SEED WITH 2 TONS OF STRAW PER ACRE. ANCHOR AS NEEDED.
2. PERMANENT VEGETATIVE COVER:
 - A. GRADE TO FINISHED SLOPES.
 - B. SCARIFY COMPACTED SOIL AREAS.
 - C. TOPSOIL WITH NOT LESS THAN FOUR (4) INCHES OF SUITABLE TOPSOIL MATERIAL.
 - D. LIME AS REQUIRED TO PH 6.5.
 - E. FERTILIZE WITH 10-6-4 AT RATE 200 LBS/AC.
 - F. SEED AS FOLLOWS:
 - TYPE I FOR USE ON MOWED AREAS (INCLUDING SWALES):

SEED	LBS./AC.
KENTUCKY BLUE GRASS	20
CREeping RED FESCUE	20
RED TOP OR RYE GRASS	5
 - TYPE II FOR USE ON BASIN SIDE SLOPES AND ON NON-MOWED AREAS. USE 'ERNMX-178' SEED MIX (ERNST CONSERVATION SEEDS, LLP) OR EQUIVALENT. SEEDS INCLUDED IN THE MIX ARE LISTED BELOW. APPLICATION RATE IS LBS./ACRE.

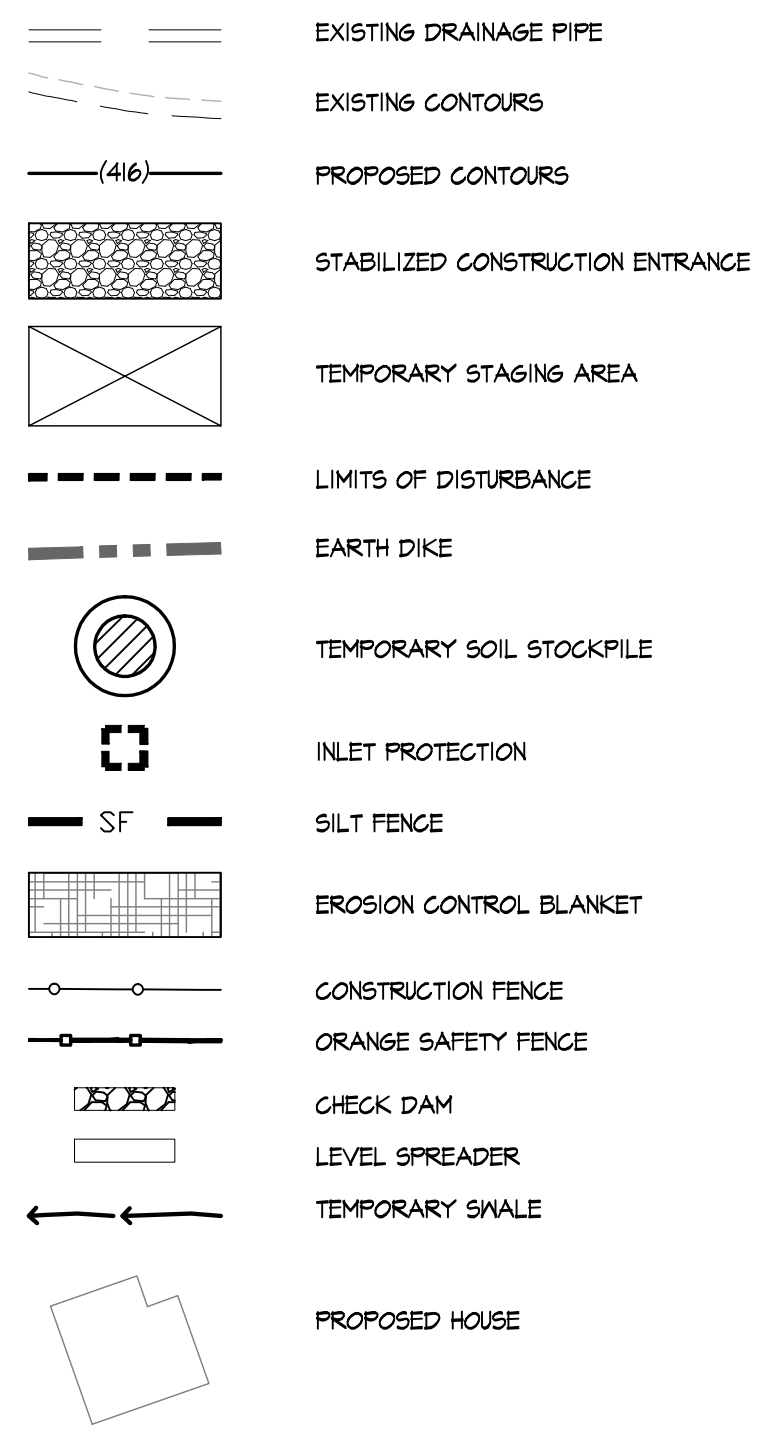
GOLDENROD	INDIAN GRASS	OX EYE SUNFLOWER
BIG BLUESTEM	VIRGINIA WILD RYE	BLACK EYED SUSAN
LITTLE BLUESTEM	FOX SEDGE	SOFT RUSH
BLUE INDIGO	PARTRIDGE PEA	RIVERBANK WILDRYE
SILKY DOGWOOD	BLUE VERVAIN	DEERTONGUE
3. WILDFLOWER AREAS TO BE MOWED ONCE PER YEAR IN LATE FALL.
4. MULCH SEED WITH 2 TONS OF STRAW PER ACRE. ANCHOR AS NEEDED.
5. FOR DISTURBED AREAS WITH SLOPE GREATER THAN 1V:3H OR WHEN SLOPES ARE EQUAL TO 1V:3H AND THE HEIGHT OF THE SLOPE EXCEEDS 6', INSTEAD OF MULCHING, EROSION CONTROL BLANKET SHALL BE USED.
6. FOR SEEDING AND PLANTING WITHIN THE MICROPOOL, EXTENDED DETENTION POND, REFER TO DRAWING #C-161 (STORMWATER STRUCTURES LANDSCAPING PLAN).
7. AFTER ESTABLISHMENT OF DENSE, VISIBIOUS VEGETATION, PHOSPHORUS BASED FERTILIZERS SHALL NOT BE USED. ONLY NON-PHOSPHORUS BASED FERTILIZER MAY BE APPLIED TO THE LAWNS AND GRASSED AREAS.

GENERAL NOTES:

1. THE SITE SHALL BE DISTURBED ONLY WHERE NECESSARY. ONLY THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED (NO MORE THAN 5 ACRES) AT ANY ONE TIME DURING DEVELOPMENT. WHEN LAND IS EXPOSED, THE EXPOSURE SHALL BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME BY IMMEDIATE STABILIZATION PER THE STABILIZATION NOTES, UNLESS SPECIFIED OTHERWISE. ALL DISTURBED AREAS ARE CONSIDERED 'STABILIZED' WHEN 80% OF UNIFORM, PERENNIAL VEGETATIVE COVER IS ACHIEVED OR EQUIVALENT STABILIZATION MEASURES (SUCH AS MULCHES, EROSION CONTROL BLANKET, ETC.) HAVE BEEN PROPERLY EMPLOYED. NO WORK SHALL CONTINUE BEFORE PRIOR DISTURBANCE IS STABILIZED.
2. WHEREVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED.
3. AREAS UNDERGOING EARTHWORK, WHERE SOIL IS TO BE LEFT EXPOSED FOR MORE THAN FIFTEEN DAYS, SHALL BE STABILIZED WITH EITHER TEMPORARY OR PERMANENT VEGETATIVE COVER. TEMPORARY COVER SHALL BE USED WHEN THE PROJECT SCHEDULE DOES NOT COINCIDE WITH THE OPTIMUM PLANTING SEASON. IN GENERAL, OPTIMUM PLANTING TIMES FOR GRASSES ARE MARCH 15TH TO MAY 31ST AND SEPTEMBER 1ST TO NOVEMBER 15TH. DURING OPTIMUM PLANTING TIMES PERMANENT VEGETATIVE COVER WILL BE INSTALLED. SEE SPECIFICATIONS FOR FURTHER DETAILS.
4. THE PROJECT OWNER / DEVELOPER OR DESIGNATED REPRESENTATIVE SHALL ARRANGE A PRE-CONSTRUCTION MEETING INVITING ALL INVOLVED REVIEW AGENCIES AND ENGINEERS OF RECORD PRIOR TO START OF CONSTRUCTION ACTIVITIES.
5. TEMPORARY MEASURES SHALL BE MAINTAINED BY PROJECT OWNER / DEVELOPER OR A DESIGNATED REPRESENTATIVE (SUCH AS THE GENERAL CONTRACTOR) DURING THE ENTIRE CONSTRUCTION PERIOD AND UNTIL RESPONSIBILITIES ARE TRANSFERRED TO THE HOMEOWNERS ASSOCIATION (HOA). THE HOA WILL THEN TAKE CHARGE OF ALL MAINTENANCE ACTIVITIES OF THE PERMANENT STORMWATER MANAGEMENT/TREATMENT COMPONENTS AND STRUCTURES.

DEVELOPER/OWNER:
ANGELO MASTRANTONI
29 FRANCES DRIVE
KATONAH, NY 12536
CONTACT: PAUL MASTRANTONI
(914) 755-0445
6. THE PROJECT OWNER / DEVELOPER OR DESIGNATED REPRESENTATIVE SHALL RETAIN THE SERVICE OF QUALIFIED PERSONNEL (LICENSED PROFESSIONAL ENGINEER, CERTIFIED PROFESSIONAL IN EROSION & SEDIMENT CONTROL-CPECS OR SOIL SCIENTIST) TO PERFORM SITE INSPECTIONS DURING THE CONSTRUCTION PERIOD AND FINAL SITE INSPECTION AT PROJECT COMPLETION.
7. THE CONTRACTOR SHALL MAKE AVAILABLE ON SITE ALL EQUIPMENT, MATERIALS AND LABOR NECESSARY TO EFFECT EMERGENCY REPAIR AND REPLACEMENT OF THE EROSION CONTROL MEASURES.
8. SITE INSPECTIONS DURING CONSTRUCTION PERIOD SHALL BE PERFORMED AT LEAST EVERY 1 CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER. DURING WINTER, IF THE SOIL DISTURBANCE IS COMPLETELY SUSPENDED AND THE SITE IS PROPERLY STABILIZED, INSPECTION FREQUENCY MAY REDUCE, BUT SHALL MAINTAIN A MINIMUM OF MONTHLY INSPECTIONS IN ALL SITUATIONS (EVEN WHEN THERE IS TOTAL WINTER SHUTOFF). DURING PERIODS OF REDUCED INSPECTION FREQUENCY, INSPECTIONS MUST STILL BE DONE AFTER EVERY STORM EVENT OF 0.5 INCHES OR GREATER. TO BE ALLOWED TO REDUCE INSPECTION FREQUENCIES, THE OPERATOR MUST COMPLETE STABILIZATION ACTIVITIES (PERIMETER CONTROLS, TRAPS, BARRIERS, ETC.) BEFORE PROPER INSTALLATION IS PRECLUDED BY SNOW COVER OR FROZEN GROUND. IF VEGETATION IS DESIRED, SEEDING, PLANTING, AND/OR SOODING MUST BE SCHEDULED TO AVOID DIE-OFF FROM FALL FROSTS AND ALLOW FOR PROPER GERMINATION/ESTABLISHMENT.
9. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST BY SPRINKLING EXPOSED AREAS PERIODICALLY WITH WATER.
10. THE PROJECT OWNER / DEVELOPER OR DESIGNATED REPRESENTATIVE SHALL KEEP INSPECTION REPORTS AND LOGS AT THE SITE. A SUMMARY OF INSPECTION ACTIVITIES SHALL BE POSTED AT A PUBLICLY ACCESSIBLE AREA OF THE SITE ON A MONTHLY BASIS.
11. PRIOR TO START OF CONSTRUCTION ACTIVITIES, THE PROJECT OWNER / DEVELOPER OR DESIGNATED REPRESENTATIVE SHALL CERTIFY ON THE INSPECTION LOG THAT A SWPPP WAS PROPERLY PREPARED FOR THE PROJECT AND CONFORMS TO ALL FEDERAL, STATE AND LOCAL EROSION & SEDIMENT CONTROL REQUIREMENTS.
12. THE PROJECT OWNER / DEVELOPER OR DESIGNATED REPRESENTATIVE SHALL PROVIDE A PHONE NUMBER TO THE DIRECTOR OF CODE ENFORCEMENT FOR USE IN EMERGENCY SITUATIONS.
13. THE OWNER/DEVELOPER SHALL MAINTAIN THE CONSTRUCTION SITE FREE OF DEBRIS, LITTER AND CONSTRUCTION CHEMICALS. A DUMPSTER SHALL BE LOCATED ON THE SITE AND PICK UP ARRANGED WHEN IT IS FULL.

EROSION CONTROL LEGEND:



TEMPORARY SEDIMENT TRAP VOLUMES

1. SEDIMENT TRAP #3
CONTRIBUTING AREA- 1.4 AC.
REQUIRED VOLUME- 3600 CF PER ACRE X 1.4 ACRES = 6840 CF
PROVIDED- 6881 CF
SEDIMENT REMOVAL ELEVATION- 736.65
2. SEDIMENT TRAP #4
CONTRIBUTING AREA- 2.5 AC.
REQUIRED VOLUME- 3600 CF PER ACRE X 2.5 ACRES = 9000 CF
PROVIDED- 9863 CF
SEDIMENT REMOVAL ELEVATION- 754.65

TEMPORARY SWALE DIMENSIONAL CHART
REFER TO DETAIL #4/C-310

SWALE #	BOTTOM WIDTH (FT)	DEPTH (FT)	SIDE SLOPE (FT/FT)	LENGTH (FT)	SLOPE (%)
1	1.0	0.75	2:1	730	11.0
2	1.0	0.75	2:1	610	11.8
3	1.0	1.0	2:1	360	11.1
4	1.0	0.75	2:1	80	2.3
5	1.0	1.25	2:1	120	2.1
6	2.0	1.25	2:1	230	4.3
7	1.0	1.25	2:1	320	8.8
8	2.0	1.25	2:1	485	9.5

POTNAM ENGINEERING, PLLC
ENGINEERS - ARCHITECTS
4 OLD ROUTE 6, BREWSTER, NEW YORK 10504
(845) 279-6789 FAX (845) 279-6769
● POTNAM ENGINEERING PLLC 2018

PURSUANT TO NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 7209 SUBDIVISION 2, "IT IS A VIOLATION OF THIS LAW FOR ANY PERSON UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION."

REVISIONS

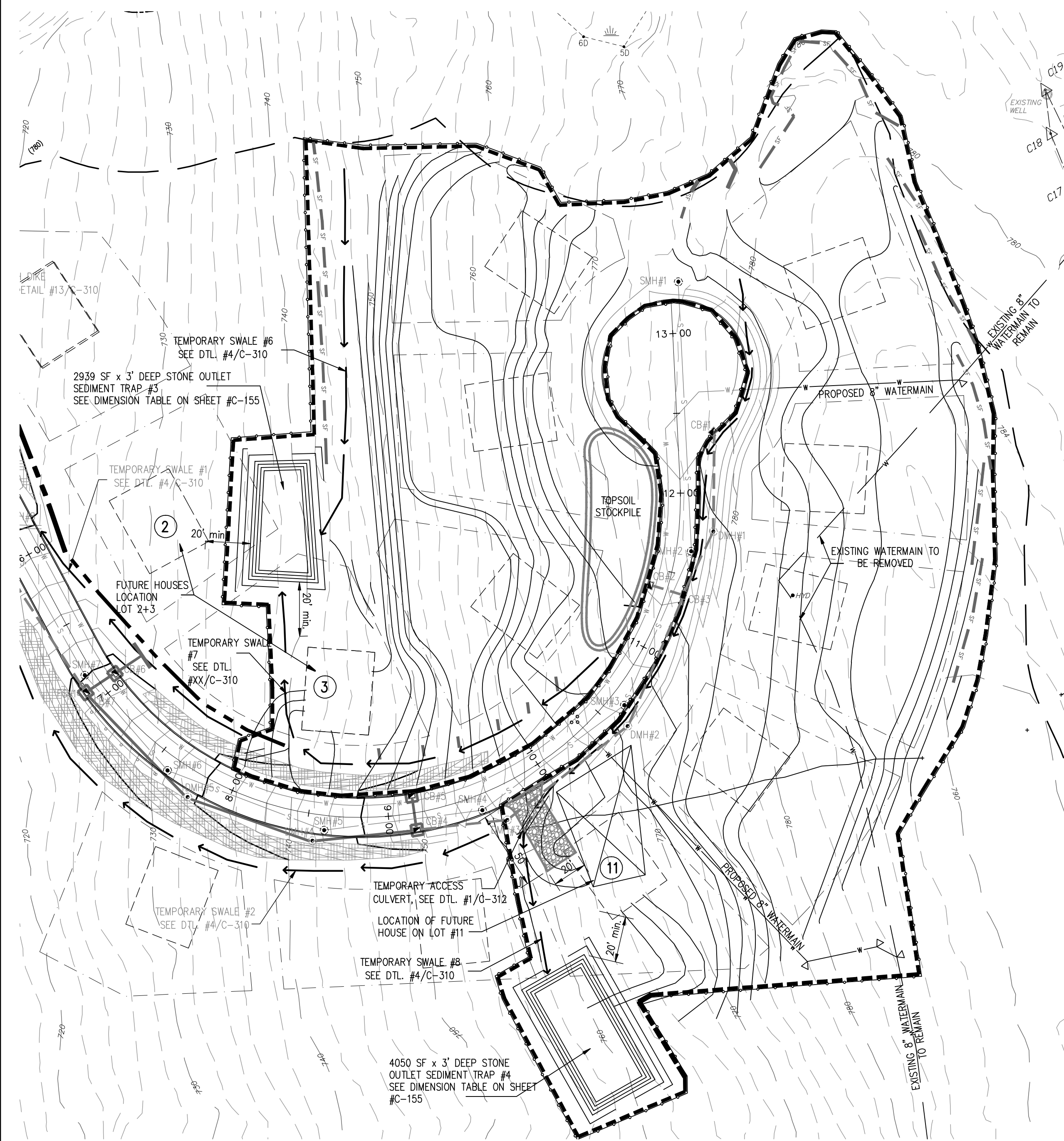
NO.	DATE	DESCRIPTION

PROJECT
PROPOSED SUBDIVISION PLAN PREPARED FOR:
OLD FORGE ESTATES
BALDWIN PLACE ROAD
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP 75.15-1-14

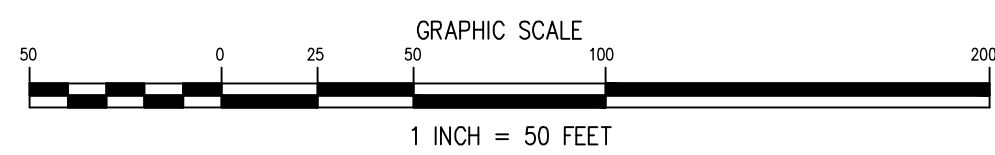
DATE
12 APR 18
PROJECT MANAGER
PML
DRAWN BY
BJK
CHECKED BY
PML
SCALE
AS NOTED

DRAWING
EROSION and SEDIMENT CONTROL PLAN PHASE 2

PROJECT NUMBER
8286
DRAWING NUMBER
C-151
SHEET 14 OF 31



EROSION & SEDIMENT CONTROL PLAN - PHASE 2



TEMPORARY SEDIMENT TRAP VOLUMES

- SEDIMENT TRAP #3**
 CONTRIBUTING AREA - 1.9 AC
 REQUIRED VOLUME - 3600 CF PER ACRE X 1.9 ACRES = 6840 CF
 PROVIDED - 6881 CF
 SEDIMENT REMOVAL ELEVATION - 736.68
- SEDIMENT TRAP #4**
 CONTRIBUTING AREA - 2.5 AC
 REQUIRED VOLUME - 3600 CF PER ACRE X 2.5 ACRES = 9000 CF
 PROVIDED - 9863 CF
 SEDIMENT REMOVAL ELEVATION - 754.65

SEQUENCE OF CONSTRUCTION:

PHASE 2

- DISTURBANCE AREA = 4.58 AC.
- ESTABLISH LIMITS OF DISTURBANCE AND MARK IN THE FIELD. INSTALL CONSTRUCTION FENCE ALONG LIMITS OF DISTURBANCE.
 - INSTALL STABILIZED CONSTRUCTION ENTRANCE NEAR STA. 10+00 OF THE CONSTRUCTED ROAD. INSTALL TEMPORARY ACCESS CULVERT FOR FUTURE TEMPORARY SWALE #8 CROSSING THE STABILIZED CONSTRUCTION ENTRANCE. REFER TO DETAIL #1/C-310.
 - INSTALL ADDITIONAL SILT FENCE IMMEDIATELY DOWNGRADE OF AREAS OF PROPOSED DISTURBANCE AS SHOWN ON THE PLAN.
 - CLEAR AND GRUB AREA OF PHASE 2 TO THE LIMITS OF DISTURBANCE SHOWN ON THE PLAN.
 - BRING IN ALL EQUIPMENT AND MATERIALS NECESSARY TO PERFORM PHASE 2 OF CONSTRUCTION. ESTABLISH STAGING AREA AS SHOWN ON THE PLAN. CONTRACTOR WILL CONTINUE TO USE YARD AREA AND FUELING AREA ESTABLISHED IN PHASE 1.
 - CLEAR AND PREPARE AREA FOR THE PROPOSED CONSTRUCTION. STRIP TOPSOIL AND STORE USABLE ORGANIC MATERIAL AT STOCKPILE. PROVIDE STOCKPILE PROTECTION PER DETAIL #3/C-310.
 - STAKE OUT CORNERS OF THE FUTURE HOUSES ON LOTS #2, 3 & 4 AS SHOWN ON THE PLAN. EXCAVATE SEDIMENT TRAPS #3 & 4. THE TRAPS SHALL NOT BE LOCATED CLOSER THAN 20 FEET FROM THE STAKED OUT BUILDING CORNERS.
 - EXCAVATE TEMPORARY SWALES #6, 7 & 8.
 - STABILIZE ALL DISTURBED AREAS AS DESCRIBED IN "STABILIZATION NOTES" WITHIN ONE (1) WEEK FOLLOWING THE EARTHWORK. NO FURTHER CONSTRUCTION IS ALLOWED BEFORE THESE AREAS ARE STABILIZED.
 - CONTRACTOR TO START CUT/FILL OPERATIONS.
 - EXCAVATE THE SITE EAST OF THE CONSTRUCTED ROAD. DEPOSIT EXCAVATED SOIL WEST OF THE PROPOSED ROAD. TRUCKS SHALL NOT CROSS THE ROAD. THE SOIL TRANSPORTATION SHALL BE DONE OVER LAND NORTH OF THE CUL-DE-SAC.
 - INSTALL WATERMAIN SEGMENTS FROM ROAD TO THE EXISTING WATERMAIN AS OUTLINED IN "WATERMAIN INSTALLATION SEQUENCE OF CONSTRUCTION". PERFORM TESTING AND THEN TIE IN. AS EXCAVATION PROGRESSES, REMOVE ABANDONED SECTION OF WATERMAIN.
 - CREATE YARDS AND BUILDING PADS FOR THE FUTURE HOUSE CONSTRUCTION. WHERE FILL IS NEEDED TO CREATE THE PADS IT SHOULD BE FREE FROM ROOTS, VEGETATION AND OVERSIZED STONES. FILL TO BE PLACED IN 12 INCH LIFTS AND COMPACTED TO 95 PERCENT DRY DENSITY BY MECHANICAL MEANS.
 - STABILIZE ALL AREAS DISTURBED IN PHASE 2 OF CONSTRUCTION AS DESCRIBED IN "STABILIZATION NOTES" WITHIN ONE (1) WEEK FOLLOWING THE EARTHWORK. NO FURTHER CONSTRUCTION IS ALLOWED BEFORE THESE AREAS ARE STABILIZED.

ON-SITE POLLUTION CONTROL MEASURES:

- THERE SHALL BE A RECEPTACLE PLACED ON THE SITE TO TEMPORARILY STORE GARBAGE, DEBRIS OR CONSTRUCTION WASTE MATERIAL. THE CONTAINER SHALL NOT BE USED TO TRANSFER ANY GARBAGE FROM ANY OTHER OFF-SITE ACTIVITY.
- THE RECORD OWNER SHALL BE RESPONSIBLE FOR KEEPING THE SITE FREE OF LITTER AT ALL TIMES. DURING CONSTRUCTION ACTIVITIES THE OWNER MAY DESIGNATE A CONTRACTOR IN CHARGE AS A RESPONSIBLE PARTY.
- THE SITE SHALL BE INSPECTED AT THE END OF EACH WORKDAY AND TRASH, DEBRIS AND GARBAGE SHALL BE PICKED UP AND PLACED IN ON-SITE DUMPSTERS OR OTHERWISE REMOVED FROM THE SITE.
- A PORTABLE TOILET FACILITY SHALL BE PROVIDED FOR CONSTRUCTION WORKERS AND AN ADDITIONAL FACILITY FOR EVERY 10 ON-SITE WORKERS.
- CONSTRUCTION VEHICLES SHALL BE SERVICED OFF-SITE AT A PROPER FACILITY. LEAKING OR ILL REPAIRED VEHICLES SHALL NOT BE LOCATED ON SITE. NO OIL CHANGES ARE PERMITTED ON SITE. FUELING OF VEHICLES ON SITE SHALL BE CAREFULLY PERFORMED WITH AN APPROVED DISPENSER NOZZLE HOSE AND PUMP. SPILLS SHALL PROMPTLY BE REPORTED TO THE NYSDDEC AND TOWN. OIL ABSORBENT PADS AND ROLLS SHALL BE USED TO TEMPORARILY CONTAIN ANY SPILLS.
- CHEMICAL SOIL ADDITIVES OR HERBICIDES SHALL NOT BE USED ON SITE DURING CONSTRUCTION.
- THE CONTAINERS SHALL BE OF SUFFICIENT SIZE FOR THE CONSTRUCTION ACTIVITY. CONTAINERS SHALL BE EMPTIED BY AN APPROVED CARTER TO A PROPER FACILITY WHEN FULL. CONTAINERS SHALL BE COVERED TO PREVENT INFILTRATION OF RAIN AND TO PREVENT WIND BORNE DEBRIS REMOVAL.
- PAINTS, CHEMICALS OR OTHER TOXIC SUBSTANCES SHALL NOT BE PLACED IN TRASH CONTAINERS. PAINTS, CHEMICALS OR TOXIC SUBSTANCES SHALL BE REMOVED FROM SITE BY AN APPROVED LICENSED CARTER.
- THERE SHALL BE NO OPEN FIRES OR BARREL FIRES PERMITTED.
- DEBRIS OR TRASH PILES ARE NOT PERMITTED. DEBRIS SHALL BE PLACED IN CONTAINERS. TEMPORARY PILES OF BRUSH OR STUMPS SHALL BE PROTECTED BY SILT FENCE SIMILAR TO TOPSOIL STOCKPILES.

TEMPORARY SWALE DIMENSIONAL CHART

REFER TO DETAIL #4/C-310

SWALE #	BOTTOM WIDTH (FT)	DEPTH (FT)	SIDE SLOPE (FT/FT)	LENGTH (FT)	SLOPE (%)
1	1.0	0.75	2:1	730	11.0
2	1.0	0.75	2:1	610	11.8
3	1.0	1.0	2:1	360	11.1
4	1.0	0.75	2:1	80	2.3
5	1.0	1.25	2:1	120	2.1
6	2.0	1.25	2:1	230	4.3
7	1.0	1.25	2:1	320	8.8
8	2.0	1.25	2:1	485	3.5

VEHICLE & EQUIPMENT FUELING and WET NOZZLE REPORT:

DESCRIPTION AND PURPOSE

VEHICLE EQUIPMENT FUELING PROCEDURES AND PRACTICES ARE DESIGNED TO PREVENT FUEL SPILLS AND LEAKS, AND REDUCE OR ELIMINATE CONTAMINATION OF STORMWATER. THIS CAN BE ACCOMPLISHED BY FUELING IN DESIGNATED AREAS ONLY, IMPLEMENTING SPILL CONTROLS, AND TRAINING EMPLOYEES AND SUBCONTRACTORS IN PROPER FUELING PROCEDURES.

SUITABLE APPLICATIONS

THESE PROCEDURES ARE SUITABLE ON ALL CONSTRUCTION SITES WHERE VEHICLE AND EQUIPMENT FUELING TAKES PLACE.

LIMITATIONS

ONSITE VEHICLE AND EQUIPMENT FUELING SHOULD ONLY BE USED WHERE IT IS IMPRACTICAL TO SEND VEHICLES AND EQUIPMENT OFFSITE FOR FUELING.

IMPLEMENTATION

- DISCOURAGE "TOPPING-OFF" OF FUEL TANKS.
- ABSORBENT SPILL CLEANUP MATERIALS AND SPILL KITS SHALL BE AVAILABLE IN FUELING AREAS AND ON FUELING TRUCKS, AND SHOULD BE DISPOSED OF PROPERLY AFTER USE.
- DRIP PANS OR ABSORBENT PADS SHOULD BE USED DURING VEHICLE AND EQUIPMENT FUELING, UNLESS THE FUELING IS PERFORMED OVER AN IMPERMEABLE SURFACE IN A DEDICATED FUELING AREA.
- USE ABSORBENT MATERIALS ON SMALL SPILLS. DO NOT HOSE DOWN OR BURY THE SPILL. REMOVE THE ADSORBENT MATERIALS PROMPTLY AND DISPOSE OF PROPERLY.
- AVOID MOBILE FUELING OF MOBILE CONSTRUCTION EQUIPMENT AROUND THE SITE; RATHER, TRANSPORT THE EQUIPMENT TO DESIGNATED FUELING AREAS. WITH THE EXCEPTION OF TRACKED EQUIPMENT SUCH AS BULLDOZERS AND LARGE EXCAVATORS, MOST VEHICLES SHOULD BE ABLE TO TRAVEL TO A DESIGNATED AREA WITH LITTLE LOST TIME.
- EMPLOYEES AND SUBCONTRACTORS SHALL BE TRAINED IN PROPER FUELING AND CLEANUP PROCEDURES.
- WHEN FUELING MUST TAKE PLACE OUTSIDE, DESIGNATE AN AREA AWAY FROM DRAINAGE COURSES TO BE USED.
- DEDICATED FUELING AREAS SHOULD BE PROTECTED FROM STORMWATER RUNON AND RUNOFF, AND SHOULD BE LOCATED AT LEAST 50 FEET AWAY FROM DOWNSIDE DRAINAGE FACILITIES AND WATERCOURSES. FUELING MUST BE PERFORMED ON LEVEL-GRADE AREAS.
- PROTECT FUELING AREAS WITH BERMS AND DIKES TO PREVENT RUNON, RUNOFF, AND TO CONTAIN SPILLS.
- NOZZLE USED IN VEHICLE AND EQUIPMENT FUELING SHOULD BE EQUIPPED WITH AN AUTOMATIC SHUTOFF TO CONTROL DRIPS. FUELING OPERATIONS SHOULD NOT BE LEFT UNATTENDED.
- FEDERAL, STATE AND LOCAL REQUIREMENTS SHOULD BE OBSERVED FOR ANY STATIONARY ABOVE GROUND STORAGE TANKS.

INSPECTION AND MAINTENANCE

- VEHICLES AND EQUIPMENT SHOULD BE INSPECTED EACH DAY OF USE FOR LEAKS. LEAKS SHOULD BE REPAIRED IMMEDIATELY OR PROBLEM VEHICLES OR EQUIPMENT SHOULD BE REMOVED FROM THE PROJECT SITE.
- KEEP AMPLE SUPPLIES OF SPILL CLEANUP MATERIALS ON-SITE.
- IMMEDIATELY CLEAN UP SPILLS AND PROPERLY DISPOSE OF CONTAMINATED SOIL AND CLEANUP MATERIALS.

STABILIZATION NOTES:

- TEMPORARY VEGETATIVE COVER:
 - SCARIFY COMPACTED SOIL AREAS.
 - LIME AS REQUIRED TO PH 6.5.
 - FERTILIZE WITH 10-10-10 AT RATE 200 LBS./AC.
 - INCORPORATE AMENDMENTS INTO SOIL WITH DISC HARROW.
 - SEED AS FOLLOWS:
 - SPRING/SUMMER/EARLY FALL PLANTING: ANNUAL RYEGRASS AND CEREAL OATS @ 30 LBS./AC.
 - LATE FALL/EARLY WINTER PLANTING: AROOSTOOK WINTER RYE @ 100 LBS./AC.
 - MULCH SEED WITH 2 TONS OF STRAW PER ACRE. ANCHOR AS NEEDED.
 - DURING WINTER CONSTRUCTION OR PERIODS OF WET WEATHER, TEMPORARY SLOPE STABILIZATION SHALL BE PROVIDED BY EITHER A ROLLED EROSION CONTROL PRODUCT OR A HEAVY MULCH LAYER SUITABLY ANCHORED. THE CONTRACTOR MUST RESEED THE AREA IN THE SPRING WITH THE APPROPRIATE SEEDING.
 - DURING DRY WEATHER CONSTRUCTION, ALL SEEDED AREAS ARE TO BE ADEQUATELY WATERED TO ENSURE VEGETATED COVER.
- PERMANENT VEGETATIVE COVER:
 - GRADE TO FINISHED SLOPES.
 - SCARIFY COMPACTED SOIL AREAS.
 - TOPSOIL WITH NOT LESS THAN FOUR (4) INCHES OF SUITABLE TOPSOIL MATERIAL.
 - LIME AS REQUIRED TO PH 6.5.
 - FERTILIZE WITH 10-6-4 AT RATE 200 LBS./AC.
 - SEED AS FOLLOWS:
 - TYPE I FOR USE ON MOWED AREAS (INCLUDING SWALES):

SEED	LBS./AC.
KENTUCKY BLUE GRASS	20
CREeping RED FESCUE	28
RED TOP OR RYE GRASS	5
 - TYPE II FOR USE ON BASIN SIDE SLOPES AND ON NON-MOWED AREAS: USE "ERNMX-178" SEED MIX (ERnst CONSERVATION SEEDS, LLP) OR EQUIVALENT. SEEDS INCLUDED IN THE MIX ARE LISTED BELOW. APPLICATION RATE 15 LBS./ACRE.

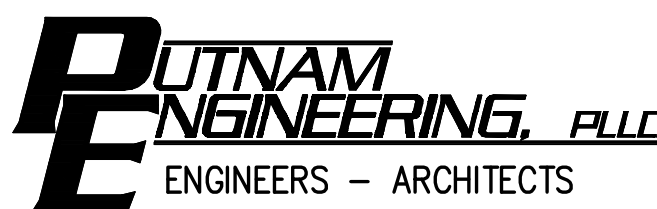
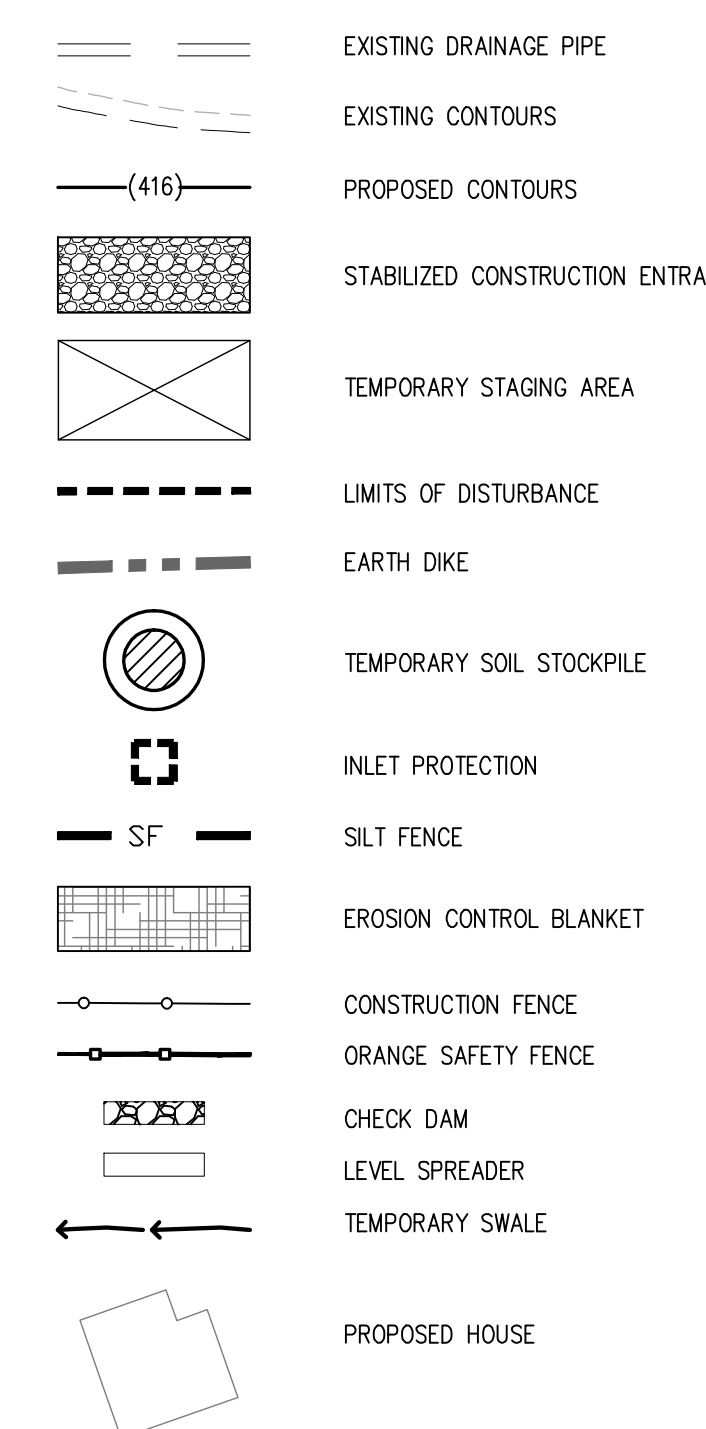
GOLDENROD	INDIAN GRASS	OX EYE SUNFLOWER
BIG BLUESTEM	VIRGINIA WILD RYE	BLACK EYED SUSAN
LITTLE BLUESTEM	FOX SEDGE	SOFT RUSH
BLUE INDIGO	PARTRIDGE PEA	RIVERBANK WILDRYE
SILKY DOGWOOD	BLUE VERVAIN	DEERTONGUE
 - WILDFLOWER AREAS TO BE MOWED ONCE PER YEAR IN LATE FALL.
 - MULCH SEED WITH 2 TONS OF STRAW PER ACRE. ANCHOR AS NEEDED.
 - FOR DISTURBED AREAS WITH SLOPE GREATER THAN 1V:3H OR WHEN SLOPES ARE EQUAL TO 1V:3H AND THE HEIGHT OF THE SLOPE EXCEEDS 6', INSTEAD OF MULCHING, EROSION CONTROL BLANKET SHALL BE USED.
 - FOR SEEDING AND PLANTING WITHIN THE MICROPOOL EXTENDED DETENTION POND, REFER TO DRAWING #C-161 (STORMWATER STRUCTURES LANDSCAPING PLAN).
 - AFTER ESTABLISHMENT OF DENSE, VIGOROUS VEGETATION, PHOSPHORUS BASED FERTILIZERS SHALL NOT BE USED. ONLY NON-PHOSPHORUS BASED FERTILIZER MAY BE APPLIED TO THE LAWNS AND GRASSED AREAS.

GENERAL NOTES:

- THE SITE SHALL BE DISTURBED ONLY WHERE NECESSARY. ONLY THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED (NO MORE THAN 5 ACRES) AT ANY ONE TIME DURING DEVELOPMENT. WHEN LAND IS EXPOSED, THE EXPOSURE SHALL BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME BY IMMEDIATE STABILIZATION PER THE STABILIZATION NOTES, UNLESS SPECIFIED OTHERWISE. ALL DISTURBED AREAS ARE CONSIDERED "STABILIZED" WHEN 80% OF UNIFORM, PERENNIAL VEGETATIVE COVER IS ACHIEVED OR EQUIVALENT STABILIZATION MEASURES (SUCH AS MULCHES, EROSION CONTROL BLANKET, ETC.) HAVE BEEN PROPERLY EMPLOYED. NO WORK SHALL CONTINUE BEFORE PRIOR DISTURBANCE IS STABILIZED.
- WHEREVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED.
- AREAS UNDERGOING EARTHWORK, WHERE SOIL IS TO BE LEFT EXPOSED FOR MORE THAN FIFTEEN DAYS, SHALL BE STABILIZED WITH EITHER TEMPORARY OR PERMANENT VEGETATIVE COVER. TEMPORARY COVER SHALL BE USED WHEN THE PROJECT SCHEDULE DOES NOT COINCIDE WITH THE OPTIMUM PLANTING SEASON. IN GENERAL, OPTIMUM PLANTING TIMES FOR GRASSES ARE MARCH 15TH TO MAY 31ST AND SEPTEMBER 1ST TO NOVEMBER 15TH. DURING OPTIMUM PLANTING TIMES PERMANENT VEGETATIVE COVER WILL BE INSTALLED. SEE SPECIFICATIONS FOR FURTHER DETAILS.
- THE PROJECT OWNER / DEVELOPER OR DESIGNATED REPRESENTATIVE SHALL ARRANGE A PRE-CONSTRUCTION MEETING INVITING ALL INVOLVED RELEVANT AGENCIES AND ENGINEERS OF RECORD PRIOR TO START OF CONSTRUCTION ACTIVITIES.
- TEMPORARY MEASURES SHALL BE MAINTAINED BY PROJECT OWNER / DEVELOPER OR A DESIGNATED REPRESENTATIVE (SUCH AS THE GENERAL CONTRACTOR) DURING THE ENTIRE CONSTRUCTION PERIOD AND UNTIL RESPONSIBILITIES ARE TRANSFERRED TO THE HOMEOWNERS ASSOCIATION (HOA). THE HOA WILL THEN TAKE CHARGE OF ALL MAINTENANCE ACTIVITIES OF THE PERMANENT STORMWATER MANAGEMENT/TREATMENT COMPONENTS AND STRUCTURES.

DEVELOPER/OWNER:
ANGELO MASTRANTONI
23 FRANCES DRIVE
KATONAH, NY 10536
CONTACT: PAUL MASTRANTONI
(914) 755-0445
- THE PROJECT OWNER / DEVELOPER OR DESIGNATED REPRESENTATIVE SHALL RETAIN THE SERVICE OF QUALIFIED PERSONNEL (LICENSED PROFESSIONAL ENGINEER, CERTIFIED PROFESSIONAL IN EROSION & SEDIMENT CONTROL-CPESC OR SOIL SCIENTIST) TO PERFORM SITE INSPECTIONS DURING THE CONSTRUCTION PERIOD AND FINAL SITE INSPECTION AT PROJECT COMPLETION.
- THE CONTRACTOR SHALL MAKE AVAILABLE ON SITE, ALL EQUIPMENT, MATERIALS AND LABOR NECESSARY TO EFFECT EMERGENCY REPAIR AND REPLACEMENT OF THE EROSION CONTROL MEASURES.
- SITE INSPECTIONS DURING CONSTRUCTION PERIOD SHALL BE PERFORMED AT LEAST EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER. DURING WINTER, IF THE SOIL DISTURBANCE IS COMPLETELY SUSPENDED AND THE SITE IS PROPERLY STABILIZED, INSPECTION FREQUENCY MAY REDUCE, BUT SHALL MAINTAIN A MINIMUM OF MONTHLY INSPECTIONS IN ALL SITUATIONS (EVEN WHEN THERE IS TOTAL WINTER SHUTDOWN). DURING PERIODS OF REDUCED INSPECTION FREQUENCY, INSPECTIONS MUST STILL BE DONE AFTER EVERY STORM EVENT OF 0.5 INCHES OR GREATER. TO BE ALLOWED TO REDUCE INSPECTION FREQUENCIES, THE OPERATOR MUST COMPLETE STABILIZATION ACTIVITIES (PERMETER CONTROLS, TRAPS, BARRIERS, ETC.) BEFORE PROPER INSTALLATION IS PRECLUDED BY SNOW COVER OR FROZEN GROUND. IF VEGETATION IS DESIRED, SEEDING, PLANTING, AND/OR SOEDING MUST BE SCHEDULED TO AVOID DIE-OFF FROM FALL FROSTS AND ALLOW FOR PROPER GERMINATION/ESTABLISHMENT.
- THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST BY SPRINKLING EXPOSED AREAS PERIODICALLY WITH WATER.
- THE PROJECT OWNER / DEVELOPER OR DESIGNATED REPRESENTATIVE SHALL KEEP INSPECTION REPORTS AND LOGS AT THE SITE. A SUMMARY OF INSPECTION ACTIVITIES SHALL BE POSTED AT A PUBLICLY ACCESSIBLE AREA OF THE SITE ON A MONTHLY BASIS.
- PRIOR TO START OF CONSTRUCTION ACTIVITIES, THE PROJECT OWNER / DEVELOPER OR DESIGNATED REPRESENTATIVE SHALL CERTIFY ON THE INSPECTION LOG THAT A SWPPP WAS PROPERLY PREPARED FOR THE PROJECT AND CONFORMS TO ALL FEDERAL, STATE AND LOCAL EROSION & SEDIMENT CONTROL REQUIREMENTS.
- THE PROJECT OWNER / DEVELOPER OR DESIGNATED REPRESENTATIVE SHALL PROVIDE A PHONE NUMBER TO THE DIRECTOR OF CODE ENFORCEMENT FOR USE IN EMERGENCY SITUATIONS.
- THE OWNER/DEVELOPER SHALL MAINTAIN THE CONSTRUCTION SITE FREE OF DEBRIS, LITTER AND CONSTRUCTION CHEMICALS. A DUMPSTER SHALL BE LOCATED ON THE SITE AND PICK UP ARRANGED WHEN IT IS FULL.

EROSION CONTROL LEGEND:



4 OLD ROUTE 6, BREWSTER, NEW YORK 10509
(845) 279-6789 FAX (845) 279-6769
● PUTNAM ENGINEERING PLLC 2018

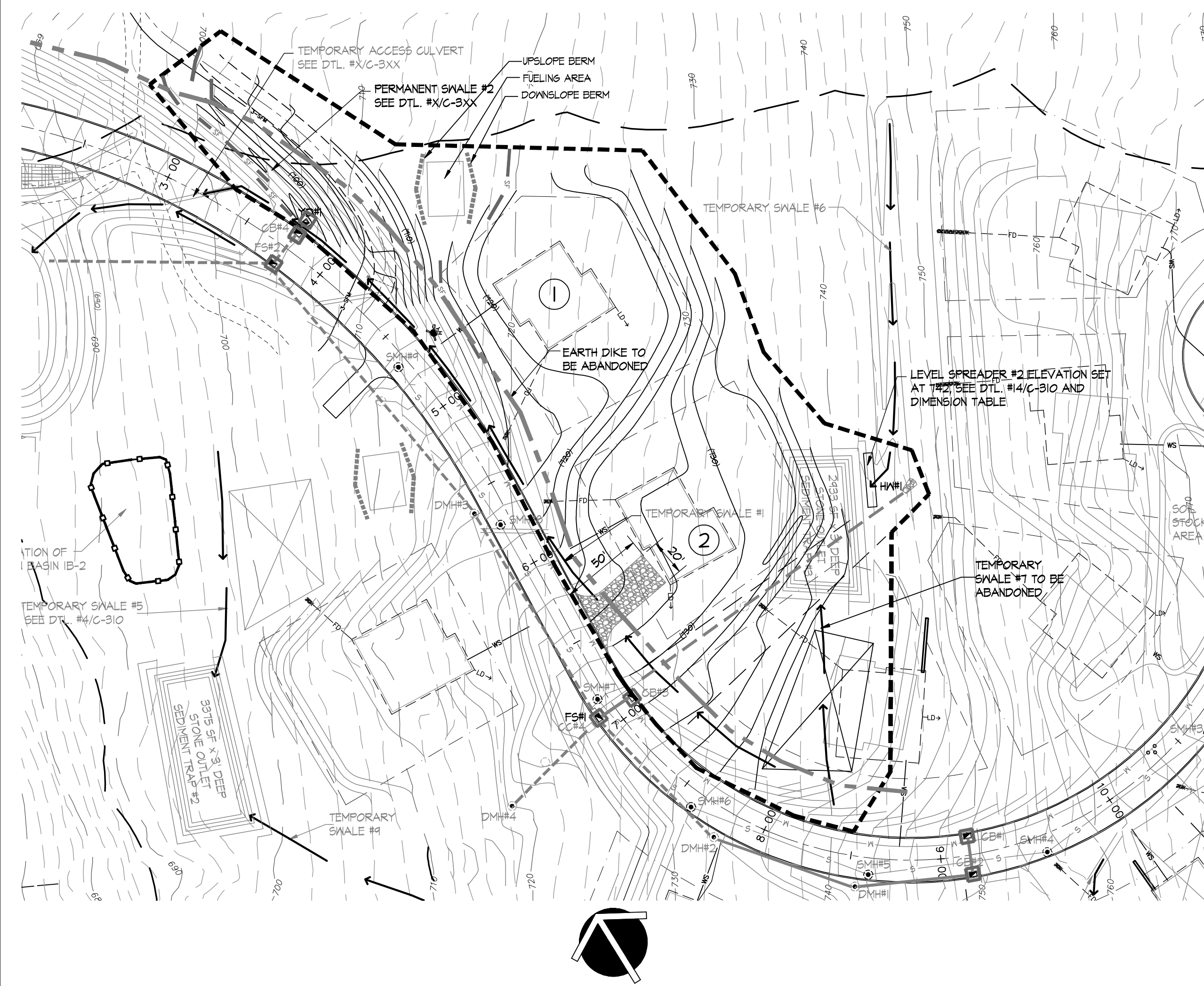
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NO.		DATE		DESCRIPTION	
1	09 NOV 18	REV. PER	BL, TE, TP	COMMENTS	
2	02 OCT 19	REV. PER	TE	COMMENTS	

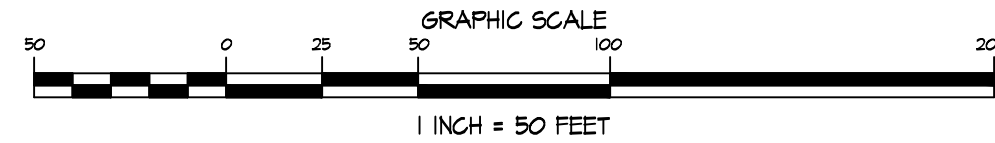
PROJECT: PROPOSED SUBDIVISION PLAN PREPARED FOR:
OLD FORGE ESTATES
BALDWIN PLACE ROAD
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP 75.15-1-19

DATE: 12 APR 18
PROJECT MANAGER: PML
DRAWN BY: BJK
CHECKED BY: PML
SCALE: AS NOTED

DRAWING: EROSION and SEDIMENT CONTROL PLAN PHASE 2
PROJECT NUMBER: 8286
DRAWING NUMBER: C-152
SHEET 15 OF 34



EROSION & SEDIMENT CONTROL PLAN - PHASE 4



EROSION CONTROL LEGEND:

- EXISTING DRAINAGE PIPE
- EXISTING CONTOURS
- PROPOSED CONTOURS
- STABILIZED CONSTRUCTION ENTRANCE
- TEMPORARY STAGING AREA
- LIMITS OF DISTURBANCE
- EARTH DIKE
- TEMPORARY SOIL STOCKPILE
- INLET PROTECTION
- SILT FENCE
- EROSION CONTROL BLANKET
- CONSTRUCTION FENCE
- ORANGE SAFETY FENCE
- CHECK DAM
- LEVEL SPREADER
- TEMPORARY SWALE
- PROPOSED HOUSE

TEMPORARY SWALE DIMENSIONAL CHART
REFER TO DETAIL #4/C-910

SWALE #	BOTTOM WIDTH (FT)	DEPTH (FT)	SIDE SLOPE (FT/FT)	LENGTH (FT)	SLOPE (%)
1	1.0	0.75	2:1	750	11.0
2	1.0	0.75	2:1	610	11.8
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4	1.0	0.75	2:1	80	2.3
5	1.0	1.25	2:1	120	2.1
6	2.0	1.25	2:1	230	4.3
7	1.0	1.25	2:1	320	8.8
8	2.0	1.25	2:1	485	9.5
9	1.0	1.0	2:1	520	11.5

LEVEL SPREADER DIMENSIONS
REFER TO DETAIL #8/C-910

LEVEL SPREADER #	Ø (FPS)	DEPTH (INCH)	WIDTH (FT)	LENGTH (FT)
1	0.37	6	3	10
2	2.18	6	3	20
3	5.81	6	3	30

SEQUENCE OF CONSTRUCTION:

PHASE 4A

DISTURBANCE AREA = 1.67 AC.

ACTIVITIES DESCRIBED BELOW MAY BE PERFORMED CONCURRENTLY WITH PHASE 3 OF CONSTRUCTION.

- CONTRACTOR TO MAINTAIN PREVIOUSLY ESTABLISHED EROSION CONTROL MEASURES ALONG WITH ALL SILT FENCES INSTALLED. REPAIR IF NECESSARY.
- RELOCATE STABILIZED CONSTRUCTION ENTRANCE TO LOCATION NEAR ROAD STA. 6+50, AS SHOWN ON THE PLAN. VEHICLES SHALL BE INSPECTED AND CLEANED, IF REQUIRED, PRIOR TO ENTERING PAVED ROAD.
- ESTABLISH LIMITS OF DISTURBANCE AND MARK IN THE FIELD. INSTALL CONSTRUCTION FENCE ALONG LIMITS OF DISTURBANCE.
- INSTALL ADDITIONAL SILT FENCES IMMEDIATELY DOWNGRADE OF AREAS OF PROPOSED DISTURBANCE AS SHOWN ON THE PLAN. SILT FENCE TO BE INSTALLED PARALLEL TO CONTOURS.
- ABANDON EARTH DIKE INSTALLED DURING PHASE #1 OF CONSTRUCTION. RESTORE GRADINGS.
- ABANDON TEMPORARY SWALE #1. RESTORE GRADINGS AND RELOCATE STAGING AREA TO THIS LOCATION. BRING IN ALL EQUIPMENT AND MATERIALS NECESSARY TO PERFORM PHASE 4 OF CONSTRUCTION.
- CLEAR AND GRUB AREA OF PHASE 4 TO THE LIMITS OF DISTURBANCE SHOWN ON THE PLAN.
- EXCAVATE LEVEL SPREADER #3 AT THE END OF TEMPORARY SWALE #6. SEDIMENT TRAP #3 WILL BE ABANDONED AND REGRADED.
- INSTALL DM#1 AND REMAINING PORTION OF PIPE F51-DM#1. INSTALL HEAD WALL HW#1 AND PIPE HW-DM#1. PIPES SHALL NOT RECEIVE ANY WATER UNTIL ALL CONTRIBUTING AREAS ARE STABILIZED.
- CONTRACTOR TO START CUT/FILL OPERATIONS.
- CREATE YARDS AND BUILDING PADS FOR THE FUTURE HOUSES CONSTRUCTION. WHERE FILL IS NEEDED TO CREATE THE PADS IT SHOULD BE FREE FROM ROOTS, VEGETATION AND OVERSIZED STONES. FILL TO BE PLACED IN 12 INCH LIFTS AND COMPACTED TO 95 PERCENT DRY DENSITY BY MECHANICAL MEANS.
- ROUGH GRADE PORTION OF ACCESS DRIVE TO SEPTIC FIELDS ALONG WITH PERMANENT SWALE #2 AS SHOWN ON THE PLAN.
- STABILIZE ALL AREAS DISTURBED IN PHASE 4 OF CONSTRUCTION AS DESCRIBED IN 'STABILIZATION NOTES' WITHIN ONE (1) WEEK FOLLOWING THE EARTHWORK. NO FURTHER CONSTRUCTION IS ALLOWED BEFORE THESE AREAS ARE STABILIZED.

PHASE 4B

DISTURBANCE AREA = XX AC.

MAINTENANCE PROGRAM:

TEMPORARY MEASURES:

- SILT FENCE. SEDIMENTS SHALL BE REMOVED FROM BEHIND THE FENCE WHEN IT BECOMES 0.5 FEET DEEP AT THE FENCE. IT SHOULD ALSO BE INSPECTED WEEKLY AND PRIOR TO AND WITHIN 24 HOURS AFTER ALL FORECASTED STORM EVENTS. REPAIR SHALL BE PERFORMED AS NEEDED.
- SWALES. PROPOSED SWALES ARE USED AS DIVERSION SWALES DURING THE CONSTRUCTION PHASE. THESE SWALES ARE TO BE INSPECTED WEEKLY AND PRIOR TO AND WITHIN 24 HOURS AFTER ALL FORECASTED STORM EVENTS FOR SCOUR AND EROSION. REMOVE DEPOSITS OR SEDIMENT OR OTHER OBSTRUCTIONS.
- CONSTRUCTION ENTRANCE. CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. VISUAL INSPECTION SHALL BE PERFORMED DAILY THROUGHOUT THE PROJECT CONSTRUCTION. 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, MASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- SEDIMENT BASIN. VISUAL INSPECTION OF THE BASIN EMBANKMENT AND DEWATERING SPILLWAY SHALL BE PERFORMED WEEKLY, PRIOR TO AND WITHIN 24 HOURS AFTER ALL FORECASTED STORMS. REPAIRS SHALL BE MADE AS NEEDED. SEDIMENT SHOULD BE REMOVED EVERY SIX (6) MONTHS OR WHEN SEDIMENT ACCUMULATION REACHES THE DESIGN CLEANOUT LEVEL. IN ORDER TO PRESERVE THE AVAILABLE STORMWATER MANAGEMENT CAPACITY OF THE SEDIMENT BASIN, THE LEVEL OF SEDIMENT AT WHICH CLEANOUT IS REQUIRED SHALL BE MARKED ON A FIXED REFERENCE POINT (SEDIMENT REMOVAL MARKER OR MARK ON A RISER TYPE OUTLET).
- CURB INLET PROTECTION. INLET PROTECTION SHALL BE INSPECTED WEEKLY AND PRIOR TO AND WITHIN 24 HOURS AFTER ALL FORECASTED STORM EVENTS. SEDIMENTS AND DEBRIS SHALL BE REMOVED FROM BEHIND THE FENCE IF PRESENT. REPAIR SHALL BE PERFORMED AS NEEDED.
- LEVEL SPREADER. LEVEL SPREADER SHALL BE INSPECTED WEEKLY AND AFTER STORM EVENTS FOR CLOSING, DENSITY OF VEGETATION, DAMAGES AND CHANNELIZATION. SEDIMENT AND DEBRIS SHALL BE REMOVED WHEN BUILDUP OCCURS. REGRADE AND RESEED WHEN NECESSARY.

PERMANENT MEASURES

STORMWATER POND/WETLAND MAINTENANCE ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
A. EMBANKMENT AND EMERGENCY SPILLWAY (ANNUAL PRIOR TO AND WITHIN 24 HOURS AFTER ALL FORECASTED MAJOR STORMS)		
1. VEGETATION AND GRASS COVER ADEQUATE		
2. EMBANKMENT EROSION		
3. ANIMAL BURROWS		
4. UNAUTHORIZED PLANTING		
5. CRACKS, BILGINS, OR SLIDING OF DAM		
A) UPSTREAM FACE		
B) DOWNSTREAM FACE		
C) AT OR BEYOND TOE DOWNSTREAM		
D) EMERGENCY SPILLWAY		
6. POND TOE & CHIMNEY DRAINS CLEAR AND FUNCTIONING		
7. SEEPS/LEAKS ON DOWNSTREAM FACE		
8. SLOPE PROTECTION OR RIPRAP FAILURE		
9. VERTICAL/HORIZONTAL ALIGNMENT OF TOP OF DAM "AS-BUILT"		
10. EMERGENCY SPILLWAY CLEAR OF OBSTRUCTIONS AND DEBRIS		
I. OTHER (SPECIFY)		
B. RISER AND PRINCIPAL SPILLWAY (ANNUAL)		
TYPE: REINFORCED CONCRETE		
CORRUGATED PIPE		
MASONRY		
1. LOW FLOW ORIFICE OBSTRUCTED		
2. LOW FLOW TRASH RACK		
A) DEBRIS REMOVAL NECESSARY		
B) CORROSION CONTROL		
3. WEIR TRASH RACK MAINTENANCE		
A) DEBRIS REMOVAL NECESSARY		
B) CORROSION CONTROL		
4. EXCESSIVE SEDIMENT ACCUMULATION INSIDE RISER		
5. CONCRETE/MASONRY CONDITION RISER AND BARRELS		
A) CRACKS OR DISPLACEMENT		
B) MINOR SPALLING (<1")		
C) MAJOR SPALLING (REBARS EXPOSED)		
D) JOINT FAILURE		
E) WATER TIGHTNESS		
6. METAL PIPE CONDITION		
7. CONTROL VALVE		
A) OPERATIONAL/EXERCISED		
B) CHAINED AND LOCKED		
8. POND DRAIN VALVE		
A) OPERATIONAL/EXERCISED		
B) CHAINED AND LOCKED		
9. OUTFALL CHANNELS FUNCTIONING		
10. OTHER (SPECIFY)		
C. PERMANENT POOL (NET PONDS) (MONTHLY)		
1. UNDESIRABLE VEGETATION GROWTH		
2. FLOATING OR PLACABLE DEBRIS REMOVAL REQUIRED		
3. VISIBLE POLLUTION		
4. SHORELINE PROBLEM		
5. OTHER (SPECIFY)		
D. SEDIMENT FOREBAYS		
1. SEDIMENTATION NOTED		
2. SEDIMENT CLEANOUT WHEN DEPTH >20% DESIGN DEPTH		
E. DRY POND AREAS		
1. VEGETATION ADEQUATE		
2. UNDESIRABLE VEGETATIVE GROWTH		
3. UNDESIRABLE WOODY VEGETATION		
4. LOW FLOW CHANNELS CLEAR OF OBSTRUCTIONS		
5. STANDING WATER OR WET SPOTS		
6. SEDIMENT AND/OR TRASH ACCUMULATION		
1. OTHER (SPECIFY)		
F. CONDITION OF OUTFALLS (ANNUAL AFTER MAJOR STORMS)		
1. RIPRAP FAILURES		
2. SLOPE EROSION		
3. STORM DRAIN PIPES		
4. ENDS/VALVEHEADS		
5. OTHER (SPECIFY)		
G. OTHER (MONTHLY)		
1. ENCROACHMENT ON POND, WETLAND OR EASEMENT AREA		
2. COMPLAINTS FROM RESIDENTS		
3. AESTHETICS		
A) GRASS GROWING REQUIRED		
B) GRAFFITI REMOVAL NEEDED		
C) OTHER (SPECIFY)		
4. CONDITIONS OF MAINTENANCE ACCESS ROUTES		
5. SIGNS OF HYDROCARBON BUILDUP		
6. ANY PUBLIC HAZARDS (SPECIFY)		
H. WETLAND VEGETATION (ANNUAL)		
1. VEGETATION HEALTHY AND GROWING		
2. WETLAND MAINTAINING 50% SURFACE AREA COVERAGE OF WETLAND PLANTS AFTER THE SECOND GROWING SEASON (IF UNSATISFACTORY, REINFORCEMENT PLANTINGS NEEDED)		
3. DOMINANT WETLAND PLANTS		
4. SURVIVAL OF DESIRED WETLAND PLANT SPECIES DISTRIBUTION ACCORDING TO LANDSCAPING PLAN		
5. EVIDENCE OF INVASIVE SPECIES		
6. MAINTENANCE OF ADEQUATE WATER DEPTHS FOR DESIRED WETLAND PLANT SPECIES		
7. HARVESTING OF DERISANT PLANTINGS NEEDED		
8. HAVE SEDIMENT ACCUMULATIONS REDUCED POOL VOLUME SIGNIFICANTLY OR ARE PLANTS "CHOKED" WITH SEDIMENT		
9. EUTROPHICATION LEVEL OF THE WETLAND		
10. OTHER (SPECIFY)		

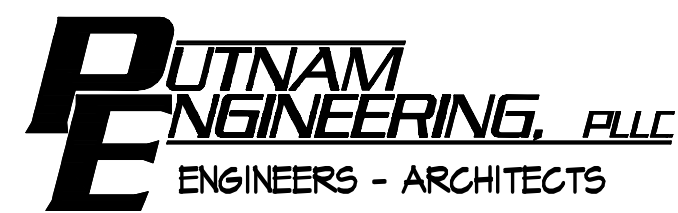
RAIN GARDEN/STORMWATER PLANTER MAINTENANCE/INSPECTION ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
A. DEBRIS CLEANOUT (MONTHLY, AFTER MAJOR STORMS)		
CONTRIBUTING AREAS CLEAN OF DEBRIS		
INLET AND OUTLETS CLEAN OF DEBRIS		
B. VEGETATION (MONTHLY)		
VEGETATION HEALTHY AND GROWING		
EVIDENCE OF INVASIVE SPECIES		
ADEQUATE LAYER OF MULCH		
EVIDENCE OF STANDING WATER		

GRASS SWALE MAINTENANCE ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
A. DEBRIS CLEANOUT (MONTHLY)		
CONTRIBUTING AREAS TO CLEAN OF DEBRIS		
B. CHECK DAMS OR ENERGY DISSIPATORS (ANNUAL, PRIOR TO AND WITHIN 24 HOURS AFTER ALL FORECASTED MAJOR STORMS)		
NO EVIDENCE OF EROSION AT DOWNSTREAM TOE		
NO EVIDENCE OF FLOW GOING AROUND STRUCTURES		
SOIL PERMEABILITY		
GROUNDWATER/BEDROCK		
C. VEGETATION (MONTHLY)		
MOWING DONE WHEN NEEDED		
3" MINIMUM MOWING DEPTH NOT EXCEEDED		
NO EVIDENCE OF EROSION AT DOWNSTREAM TOE		
FERTILIZED PER SPECIFICATION		
D. DEWATERING (MONTHLY)		
DEWATERERS BETWEEN STORMS		
E. SEDIMENT DEPOSITION (ANNUAL)		
REMOVE SEDIMENT WHEN SWALE IS 25% FULL WITH SEDIMENT		
F. OUTFALLS ON SPILLWAY (ANNUAL)		
GOOD CONDITION, NO NEED FOR REPAIRS		
NO EVIDENCE OF EROSION		

CATCH BASIN / YARD DRAIN / MANHOLE MAINTENANCE ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
A. VISUAL INSPECTION (EVERY 3 MONTHS)		
1. SEDIMENT ACCUMULATION AT:		
A) RIM		
B) SUMP		
2. SIGN OF EROSION AROUND STRUCTURE		
B. MAINTENANCE (EVERY 3 MONTHS)		
1. REMOVE SEDIMENT IN SUMP IF GREATER THAN 12" DEEP		
2. CLEAR RIM OF DEBRIS AND LEAVES		
3. CLEAR DEBRIS IN INLET CHANNEL		
4. REPAIR ERODED PORTION OF INLET CHANNEL (IF ANY)		
STORM PIPES		
TWICE A YEAR AND BEFORE ALL MAJOR FORECASTED STORMS)		
MAINTENANCE ITEM		
A. STRUCTURAL INTEGRITY		
B. SIGN OF CLOGGAGE		
RIP RAP OUTLET PROTECTION (ONCE A YEAR AND AFTER MAJOR STORMS)		
MAINTENANCE ITEM		
A. CHECK FOR SCOUR AND INTEGRITY		
B. REPAIR IF NEEDED		

UNDERGROUND INFILTRATION SYSTEM MAINTENANCE/INSPECTION ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
A. DEBRIS CLEANOUT (MONTHLY)		
CONTRIBUTING AREAS CLEAN OF DEBRIS		
OUTLETS CLEAN OF DEBRIS		
B. DEWATERING (MONTHLY)		
DEWATERERS BETWEEN STORMS		
C. SEDIMENT DEPOSITION (ANNUAL)		
NO EVIDENCE OF SEDIMENT DEPOSITION		
SEDIMENT ACCUMULATION DOESN'T YET REQUIRE CLEANOUT		
D. OVERALL FUNCTION OF FACILITY (ANNUAL)		
GOOD CONDITION, NO NEED FOR REPAIR		
NO EVIDENCE OF EROSION		

ROOF LEADERS DISCONNECTION MAINTENANCE/INSPECTION ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
A. PIPES AND DRAINS (ANNUAL)		
DOWNSPOUTS PROVIDE STABLE CONVEYANCE TO THE DESIGNATED AREA		
NO EXISTENCE OF LEAKING GUTTERS		
B. DEWATERING (MONTHLY)		
NO EXISTENCE OF STANDING WATER		
C. SEDIMENT DEPOSITION (SEMI-ANNUAL)		
SEDIMENT ACCUMULATION DOESN'T YET REQUIRE CLEANOUT		
D. OVERALL FUNCTION OF FACILITY (ANNUAL)		
GOOD CONDITION, NO NEED FOR REPAIR		
NO EVIDENCE OF EROSION		



4 OLD ROUTE 6, BREWSTER, NEW YORK 10509
(845) 279-6789 FAX (845) 279-6769
PUTNAM ENGINEERING PLLC 2018

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REVISIONS		
NO.	DATE	DESCRIPTION

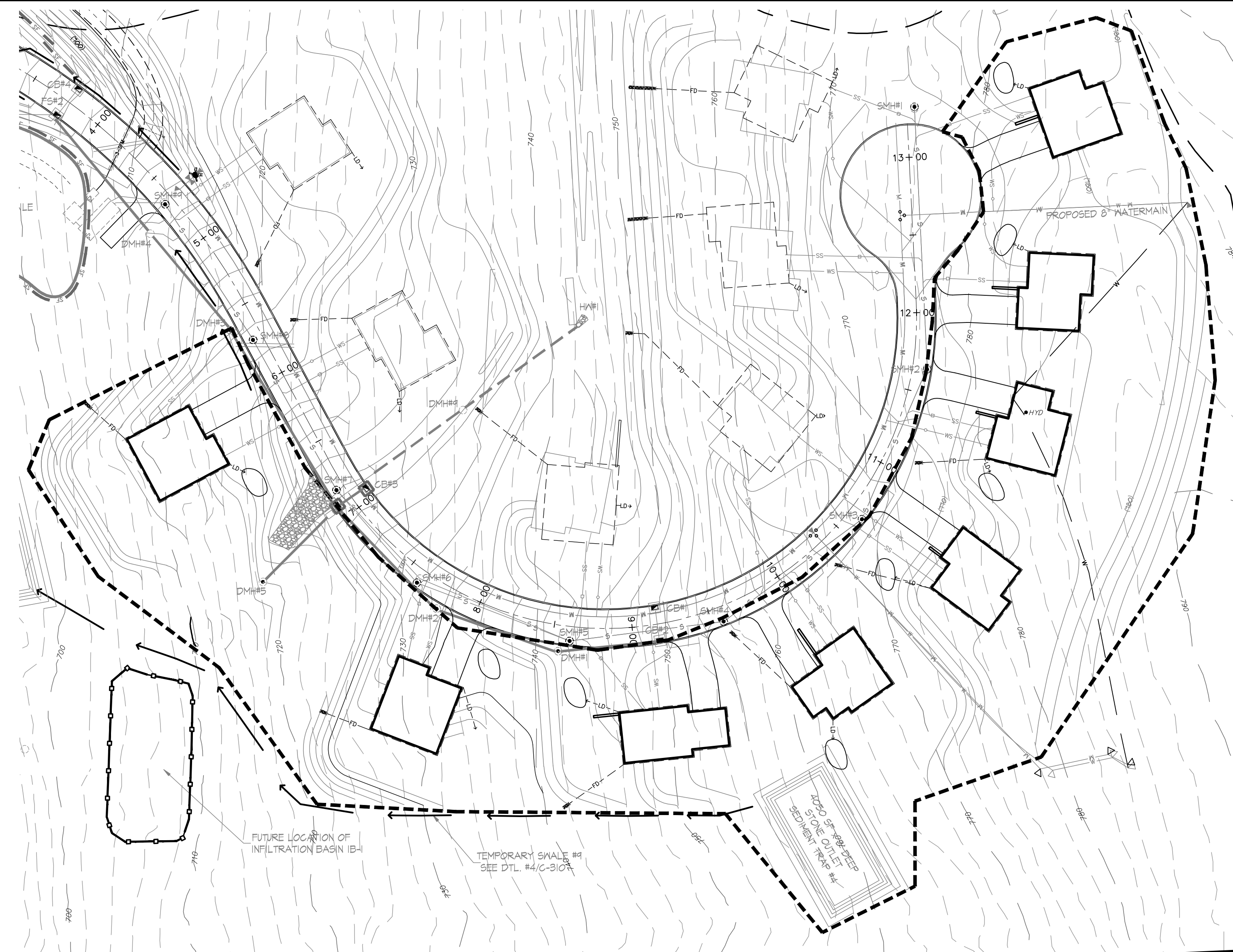
PROJECT: PROPOSED SUBDIVISION PLAN PREPARED FOR:
OLD FORGE ESTATES
BALDWIN PLACE ROAD
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP 78.15-1-14

DATE: 12 APR 18
PROJECT MANAGER: PML
DRAWN BY: BJK
CHECKED BY: PML
SCALE: AS NOTED

DRAWING: **EROSION and SEDIMENT CONTROL PLAN PHASE 4 & MAINTENANCE PROGRAM**
PROJECT NUMBER: 8286
DRAWING NUMBER: **C-153**
SHEET 16 OF 31



PHASE 5A



PHASE 5B

SEQUENCE OF CONSTRUCTION:

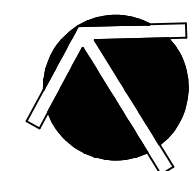
PHASES 5A and 5B

DISTURBANCE AREA: PHASE 5A = 2.90 AC.
PHASE 5B = 3.68 AC.

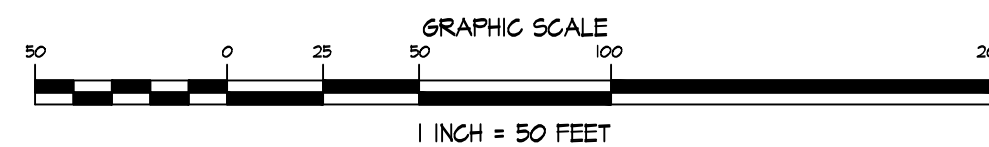
CONSTRUCTION AS DESCRIBED BELOW MAY START AFTER SEPTIC FIELDS, SEWER PIPES AND SEWER PUMPING SYSTEM IS IN GROUND, TESTED AND IN WORKING CONDITION. REFER TO UTILITY PLAN AND S915 PLANS FOR SPECIFICATION.

CONTRACTOR MAY START CONSTRUCTION OF BOTH PHASES SIMULTANEOUSLY ASSURING THAT THE TOTAL DISTURBANCE AREA WILL NOT EXCEED 5 ACRES. CONSTRUCTION SHALL FOLLOW STEPS LISTED BELOW.

- CONTRACTOR TO MAINTAIN ALL SILT AND SAFETY FENCES PREVIOUSLY INSTALLED.
- SURVEY AND STAKE OUT PROPOSED HOUSES, DRIVEWAYS AND RAIN GARDENS LOCATIONS. ESTABLISH LIMITS OF DISTURBANCE AND MARK IN THE FIELD. INSTALL CONSTRUCTION FENCE ALONG PERIMETERS OF THE PROPOSED DISTURBANCE.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE FOR LIGHT DUTY ROADS AS SHOWN. VEHICLES SHALL BE INSPECTED AND CLEANED, IF REQUIRED, PRIOR TO ENTERING PAVED ROAD.
- INSPECT SAFETY FENCES INSTALLED AROUND INFILTRATION PRACTICES. REPAIR IF NECESSARY.
- DEWATERING BAGS SHALL BE AVAILABLE ON THE SITE IN CASE DEWATERING AFTER RAIN EVENT IS NECESSARY.
- BUILD HOUSES. INSTALL ROOF DRAINS. CONNECT HOUSES TO ALL UTILITY LINES. TRENCHES TO BE BACKFILLED IMMEDIATELY UPON COMPLETION OF INSTALLATION OF PIPES AND CABLES. EXPOSED SOIL TO BE STABILIZED AFTER BACKFILL.
- COMPLETE GRADING. RESTORE SOIL AROUND THE HOUSES PER "SOIL RESTORATION NOTES". SEED AND STABILIZE DISTURBED AREAS WITHIN ONE (1) WEEK FOLLOWING CONSTRUCTION.
- INSTALL TOP COURSE PAVEMENT ON INDIVIDUAL DRIVEWAYS. CLEAN ALL DRAINAGE STRUCTURES.
- CLEAN ACCUMULATED SEDIMENT IN THE SWALES. UPGRADE TEMPORARY SWALE #6 TO PERMANENT SWALE #1 (PHASE 5A). RESTORE GRADING AT TEMPORARY SWALES #7 (PHASE 5A) AND #8 (PHASE 5B) LOCATIONS.
- RESTORE GRADING AT SEDIMENT TRAP #4.
- COMPLETE PLANTING AND STABILIZE PERMANENTLY ALL DISTURBED AREAS.
- EXCAVATE FOR AND INSTALL RAIN GARDENS AS SHOWN ON PLAN AND DETAILS. CONSTRUCTION OF THESE FACILITIES IS NOT ALLOWED UNTIL ALL CONTRIBUTING DRAINAGE AREAS HAVE BEEN STABILIZED.



EROSION & SEDIMENT CONTROL PLAN - PHASES 5A and 5B



EROSION CONTROL LEGEND:

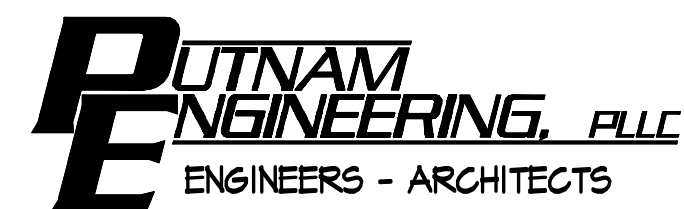
- EXISTING DRAINAGE PIPE
- EXISTING CONTOURS
- PROPOSED CONTOURS
- STABILIZED CONSTRUCTION ENTRANCE
- TEMPORARY STAGING AREA
- LIMITS OF DISTURBANCE
- EARTH DIKE
- TEMPORARY SOIL STOCKPILE
- INLET PROTECTION
- SILT FENCE
- EROSION CONTROL BLANKET
- CONSTRUCTION FENCE
- ORANGE SAFETY FENCE
- CHECK DAM
- LEVEL SPREADER
- TEMPORARY SWALE
- PROPOSED HOUSE

SOIL RESTORATION NOTES:

PRIOR TO SOIL RESTORATION, ALL CONSTRUCTION ACTIVITIES INCLUDING CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE, SITE CLEANUP AND TRAFFICKING SHOULD BE FINISHED AND THE SITE CLOSED OFF TO FUTURE DISTURBANCE.

- AREAS WHERE TOPSOIL IS STRIPPED ONLY, NO CHANGE IN GRADE: APPLY 6 INCHES OF TOPSOIL.
- AREAS OF CUT AND FILL: AERATE AND APPLY 6 INCHES OF TOPSOIL.
- HEAVY TRAFFIC AREA (ESPECIALLY ZONE DISTANT 5 FEET TO 25 FEET FROM FOUNDATION): THE PROCEDURE CAN BE PERFORMED DURING LOW TO MODERATE SOIL MOISTURE CONDITION.
 - USING AGRICULTURAL GRADE DEEP RIPPER, DEEP RIP THE AFFECTED THICKNESS OF EXPOSED SUBSOIL MATERIAL AGGRESSIVELY FRACTURING IT BEFORE THE PROTECTED TOPSOIL IS REAPPLIED ON THE SITE.
 - SPREAD TOPSOIL IN FRIABLE STATE.
 - USING WINGED SUB-SOILER OR AN EXCAVATOR EQUIPPED WITH A SUBSOILING GRAPPLE RAKE, DECOMPACT UPPER PART OF THE AFFECTED SOIL, RECOMPACTED DURING THE PREVIOUS PHASES. ADD COMPOST ENHANCEMENT.

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REVISIONS		
NO.	DATE	DESCRIPTION

PROJECT
PROPOSED SUBDIVISION PLAN PREPARED FOR:
OLD FORGE ESTATES
BALDWIN PLACE ROAD
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP 75.15-1-14

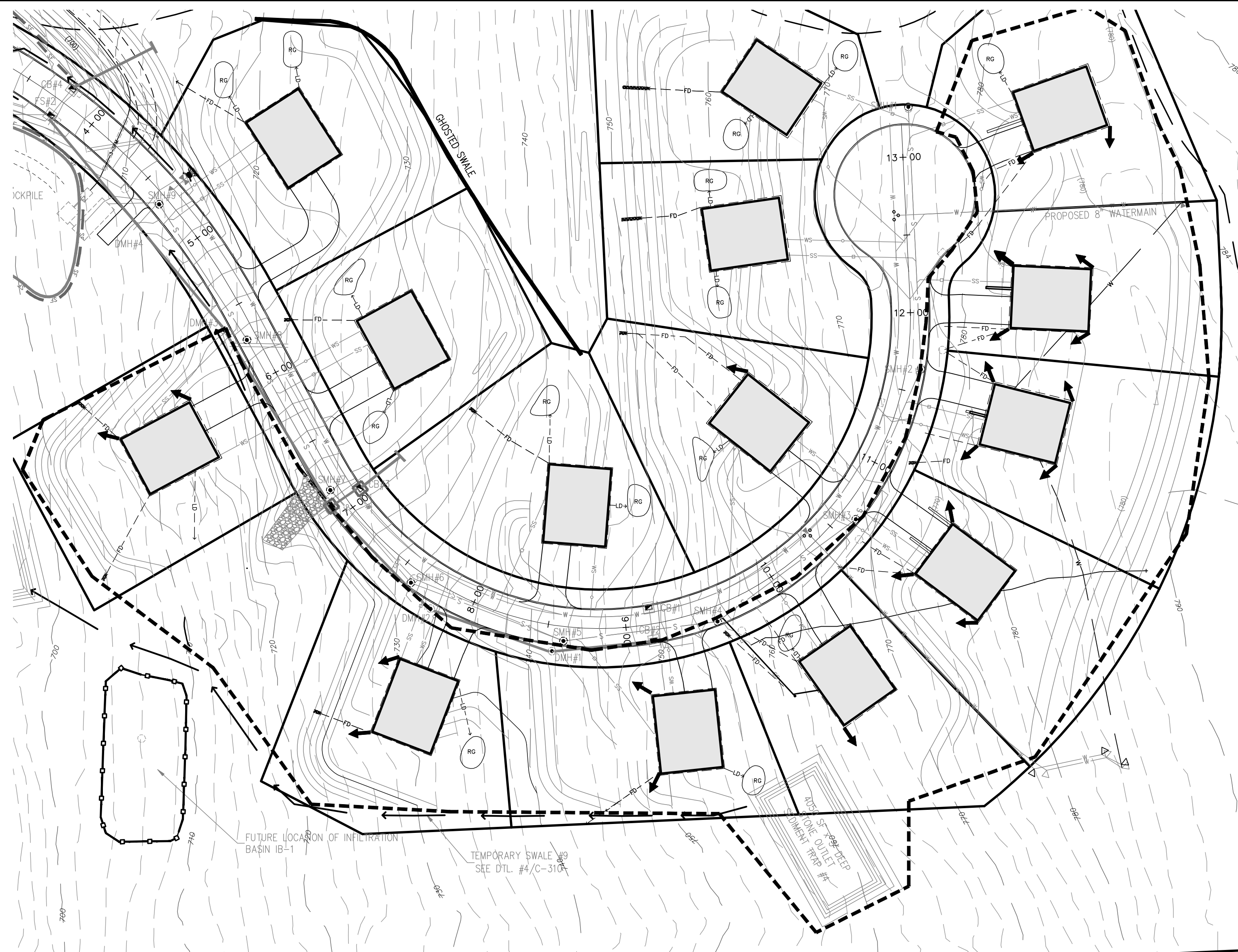
DATE
12 APR 18
PROJECT MANAGER
PML
DRAWN BY
BJK
CHECKED BY
PML
SCALE
AS NOTED

DRAWING
EROSION and SEDIMENT CONTROL PLAN PHASES 5A and 5B

PROJECT NUMBER
8286
DRAWING NUMBER
C-154
SHEET 17 OF 31



PHASE 5A



PHASE 5B

SEQUENCE OF CONSTRUCTION:

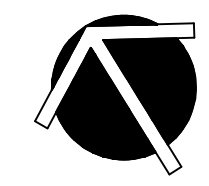
PHASES 5A and 5B

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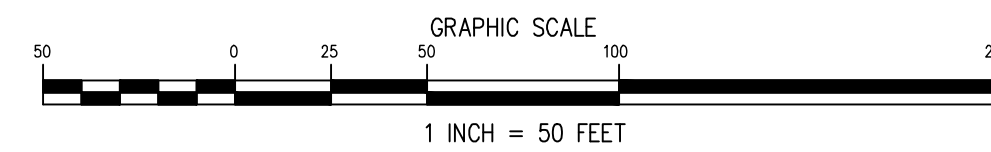
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CONTRACTOR MAY START CONSTRUCTION OF BOTH PHASES SIMULTANEOUSLY ASSURING THAT THE TOTAL DISTURBANCE AREA WILL NOT EXCEED 5 ACRES. CONSTRUCTION SHALL FOLLOW STEPS LISTED BELOW.

1. CONTRACTOR TO MAINTAIN ALL SILT AND SAFETY FENCES PREVIOUSLY INSTALLED.
2. SURVEY AND STAKE OUT PROPOSED HOUSES, DRIVEWAYS AND RAIN GARDENS LOCATIONS. ESTABLISH LIMITS OF DISTURBANCE AND MARK IN THE FIELD. INSTALL CONSTRUCTION FENCE ALONG PERIMETERS OF THE PROPOSED DISTURBANCE.
3. INSTALL STABILIZED CONSTRUCTION ENTRANCE FOR LIGHT DUTY ROADS AS SHOWN. VEHICLES SHALL BE INSPECTED AND CLEANED, IF REQUIRED, PRIOR TO ENTERING PAVED ROAD.
4. INSPECT SAFETY FENCES INSTALLED AROUND INFILTRATION PRACTICES. REPAIR IF NECESSARY.
5. DEWATERING BAGS SHALL BE AVAILABLE ON THE SITE IN CASE DEWATERING AFTER RAIN EVENT IS NECESSARY.
6. BUILD HOUSES. INSTALL ROOF DRAINS. CONNECT HOUSES TO ALL UTILITY LINES. TRENCHES TO BE BACKFILLED IMMEDIATELY UPON COMPLETION OF INSTALLATION OF PIPES AND CABLES. EXPOSED SOIL TO BE STABILIZED AFTER BACKFILL.
7. COMPLETE GRADING. RESTORE SOIL AROUND THE HOUSES PER "SOIL RESTORATION NOTES". SEED AND STABILIZE DISTURBED AREAS WITHIN ONE (1) WEEK FOLLOWING CONSTRUCTION.
8. INSTALL TOP COURSE PAVEMENT ON INDIVIDUAL DRIVEWAYS. CLEAN ALL DRAINAGE STRUCTURES.
9. CLEAN ACCUMULATED SEDIMENT IN THE SWALES. UPGRADE TEMPORARY SWALE #6 TO PERMANENT SWALE #1 (PHASE 5A). RESTORE GRADING AT TEMPORARY SWALES #7 (PHASE #5A) AND #8 (PHASE #5B) LOCATIONS.
10. RESTORE GRADING AT SEDIMENT TRAP #4.
11. COMPLETE PLANTING AND STABILIZE PERMANENTLY ALL DISTURBED AREAS.
12. EXCAVATE FOR AND INSTALL RAIN GARDENS AS SHOWN ON PLAN AND DETAILS. CONSTRUCTION OF THESE FACILITIES IS NOT ALLOWED UNTIL ALL CONTRIBUTING DRAINAGE AREAS HAVE BEEN STABILIZED.



EROSION & SEDIMENT CONTROL PLAN – PHASES 5A and 5B



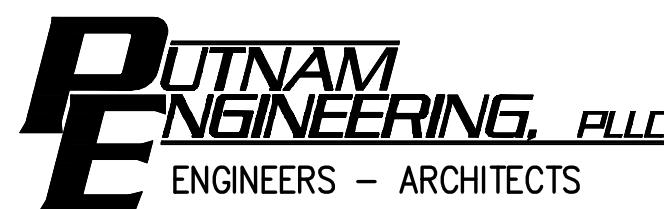
EROSION CONTROL LEGEND:

- EXISTING DRAINAGE PIPE
- EXISTING CONTOURS
- PROPOSED CONTOURS
- STABILIZED CONSTRUCTION ENTRANCE
- TEMPORARY STAGING AREA
- LIMITS OF DISTURBANCE
- EARTH DIKE
- TEMPORARY SOIL STOCKPILE
- INLET PROTECTION
- SILT FENCE
- EROSION CONTROL BLANKET
- CONSTRUCTION FENCE
- ORANGE SAFETY FENCE
- CHECK DAM
- LEVEL SPREADER
- TEMPORARY SWALE
- PROPOSED HOUSE

SOIL RESTORATION NOTES:

PRIOR TO SOIL RESTORATION, ALL CONSTRUCTION ACTIVITIES INCLUDING CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE, SITE CLEANUP AND TRAFFICKING SHOULD BE FINISHED AND THE SITE CLOSED OFF TO FUTURE DISTURBANCE.

1. AREAS WHERE TOPSOIL IS STRIPPED ONLY, NO CHANGE IN GRADE:
APPLY 6 INCHES OF TOPSOIL.
2. AREAS OF CUT AND FILL:
AERATE AND APPLY 6 INCHES OF TOPSOIL.
3. HEAVY TRAFFIC AREA (ESPECIALLY ZONE DISTANT 5 FEET TO 25 FEET FROM FOUNDATION):
THE PROCEDURE CAN BE PERFORMED DURING LOW TO MODERATE SOIL MOISTURE CONDITION.
A) USING AGRICULTURAL GRADE DEEP RIPPER, DEEP RIP THE AFFECTED THICKNESS OF EXPOSED SUBSOIL MATERIAL AGGRESSIVELY FRACTURING IT BEFORE THE PROTECTED TOPSOIL IS REAPPLIED ON THE SITE.
B) SPREAD TOPSOIL IN FRIABLE STATE.
C) USING WINGED SUB-SOILER OR AN EXCAVATOR EQUIPPED WITH A SUBSOILING GRAPPLE RAKE, DECOMPACT UPPER PART OF THE AFFECTED SOIL, RECOMPACTED DURING THE PREVIOUS PHASES. ADD COMPOST ENHANCEMENT.



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REVISIONS		PROJECT			
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	09 NOV 18	REV. PER BL, TE, TP COMMENTS			
2	02 OCT 19	REV. PER TE COMMENTS			

PROPOSED SUBDIVISION PLAN PREPARED FOR:
OLD FORGE ESTATES
BALDWIN PLACE ROAD
TOWN of CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP 75.15-1-19

[Handwritten Signature]

DATE
12 APR 18
PROJECT MANAGER
PML
DRAWN BY
B.K.
CHECKED BY
PML
SCALE
AS NOTED

EROSION and SEDIMENT CONTROL PLAN PHASES 5A and 5B

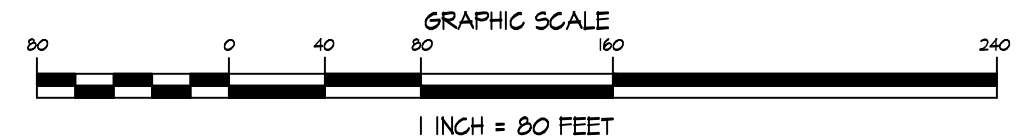
PROJECT NUMBER
8286
DRAWING NUMBER
C-155
SHEET 18 OF 34



LANDSCAPING LEGEND:

- LARGE DECIDUOUS TREE
- SMALL DECIDUOUS TREE
- CONIFEROUS TREE
- WILDFLOWER SEED MIX
- RAIN GARDEN
- RIP-RAP SWALE
- APPROXIMATE LINE OF EXISTING VEGETATION TO REMAIN
- EXISTING VEGETATION TO REMAIN
- LAWN AREA

LANDSCAPE PLAN



SLOPE STABILIZATION NOTES:

TEMPORARY STABILIZATION:
 AREAS WHERE TEMPORARY STABILIZATION IS NEEDED, SUCH AS GRADED AREAS TO BE STABILIZED UNTIL START OF NEXT CONSTRUCTION PHASE OR SEASON, ARE TO BE IMMEDIATELY STABILIZED AS FOLLOWS UNLESS OTHERWISE SPECIFIED.

SPRING/SUMMER/EARLY FALL PLANTING:
 ANNUAL RYEGRASS + CEREAL OATS (LOLIUM MULTIFLORUM) 30 LBS/AC

LATE FALL/EARLY WINTER:
 ARGOOSTOOK WINTER RYE (LOLIUM PERENNE VAR. ARISTATUM) 100 LBS/AC

PERMANENT STABILIZATION:
 ALL DISTURBED AREAS, CUT SLOPES AND EMBANKMENT FILL AREAS ARE TO BE IMMEDIATELY STABILIZED AS FOLLOWS, UNLESS OTHERWISE SPECIFIED.

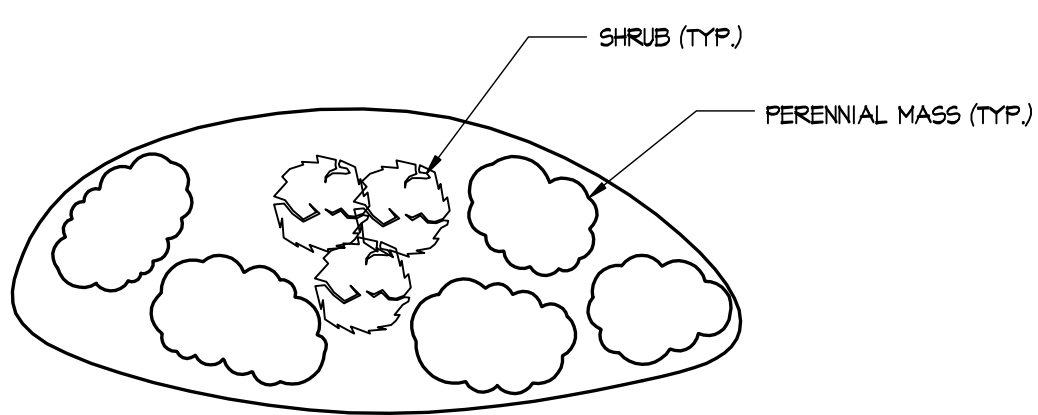
MAINTAINED TURF GRASS: SEED LB/AC
 KENTUCKY BLUE GRASS 20
 CREEPING RED FESCUE 20
 RED TOP OR RYE GRASS 5

WILDFLOWER AREAS: *NATIVE STEEP SLOPE MIX WITH ANNUAL RYEGRASS* SEED MIX ERN-MX-18) AS MFR. BY ERNST CONSERVATION SEEDS, WITH AN APPLICATION RATE OF 60 LBS/ACRE.

PLANT LIST				
SYM.	NAME	SIZE (MIN)	QTY.	
	EVERGREEN TREES			
P5	PINUS STROBUS / EASTERN WHITE PINE	2.5" CAL.	1	
	DECIDUOUS STREET TREES			
AR	ACER RUBRUM / RED MAPLE	2.5" CAL.	15	
AS	ACER SACCHARUM / SUGAR MAPLE	2.5" CAL.	15	
PC	PYRUS CALLERYANA / CLEVELAND PEAR	2.5" CAL.	23	
QP	QUERCUS PALAISTRIS / PIN OAK	2.5" CAL.	15	
NS	NYSSA SYLVATICA/BLACK GUM	2.5" CAL.	4	

PLANTING NOTES:

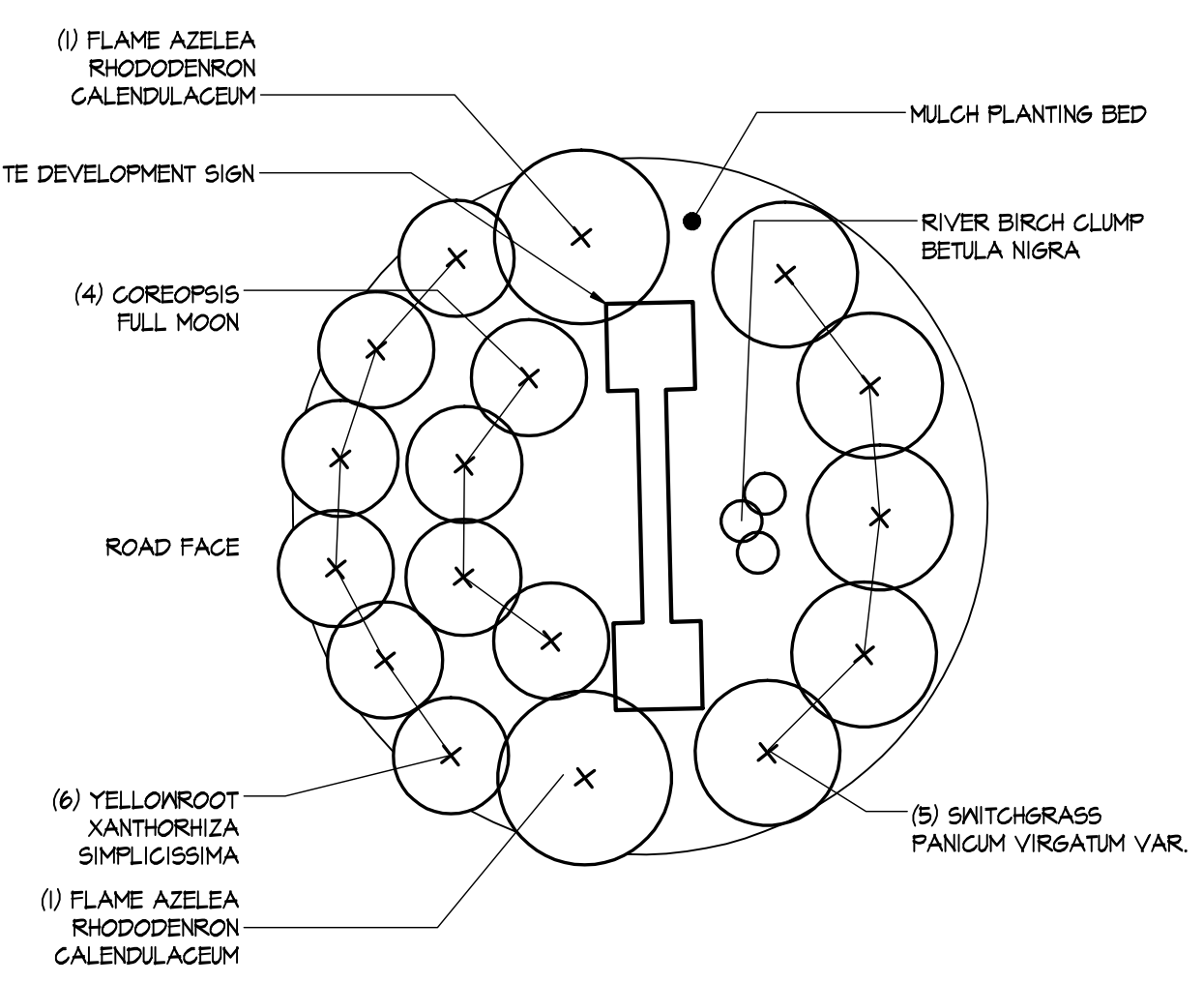
- ALL PLANTINGS SHALL BE VERIFIED BY THE TOWN OF CARMEL METLANDS INSPECTOR.
- ALL PLANTINGS SHALL BE INSTALLED PER CHAPTER 142 OF THE TOWN OF CARMEL CODE.
- NO PARKING OR STORAGE OF MATERIALS WILL BE PERMITTED UNDER DRIP LINE OF EXISTING TREES AND SHRUBS TO REMAIN.
- ALL PLANT MATERIALS SHALL BE NURSERY GROWN, FULLY FORMED AND IN A HEALTHY CONDITION FREE OF INSECTS, PESTS, DISEASE OR DAMAGE AT THE TIME OF INSTALLATION.
- ALL PLANTS SHALL BE BALLED AND BURLAPPED OR CONTAINER GROWN.
- ALL LANDSCAPING SHOWN SHALL BE MAINTAINED IN A HEALTHY GROWING CONDITION THROUGHOUT THE DURATION OF THE USE BEING SERVED. PLANTS NOT SO MAINTAINED SHALL BE REPLACED WITH HEALTHY NEW PLANTS OF COMPARABLE SIZE, TYPE AND QUANTITY AT THE BEGINNING OF THE IMMEDIATELY FOLLOWING GROWING SEASON.
- TOPSOIL ALL DISTURBED AREAS WITH NOT LESS THAN FOUR (4) INCHES OF SUITABLE TOPSOIL MATERIAL.
- SEED ALL OTHER DISTURBED AREAS IN ACCORDANCE WITH THE "SLOPE STABILIZATION NOTES".
- MULCH ALL AREAS WITH STRAW AT THE RATE OF TWO TONS PER ACRE.
- ALL UTILITIES MAY NOT BE SHOWN. CONTRACTOR SHALL VERIFY LOCATIONS OF UTILITIES BEFORE PROCEEDING WITH WORK.
- SEE "EROSION AND SEDIMENT CONTROL PLAN", DRAWING #C-153 FOR MAINTENANCE AND ESTABLISHMENT OF GROWTH.
- AFTER ESTABLISHMENT OF DENSE, VIGOROUS VEGETATION, PHOSPHORUS BASED FERTILIZERS SHALL NOT BE USED. ONLY NON-PHOSPHORUS BASED FERTILIZER MAY BE APPLIED TO THE LAWNS AND GRASSED AREAS.



RAIN GARDEN PLANTS:

SYMBOL	TYPE	PLANTINGS TO SELECT FROM
	SHRUB	ILEX VERTICILLATA (WINTERBERRY) VIBURNUM DENTATUM (ARROWWOOD) CLETHRA ALNIFOLIA (SWEET PEPPERBUSH)
	PERENNIAL MASS	CINNAMON FERN (OSMUNDA CINNAMOMEA) CUTLEAF CONEFLOWER (RUBEGKIA LACINIATA) GREAT BLUE LOBELIA (LOBELIA SIPHATICA) WILD BERGAMOT (MONARDA FISTULOSA) NEW ENGLAND ASTER (ASTER NOVAE-ANGLIAE) WOOLGRASS (SCIRPUS CYPERINUS) BUTTERFLY NEEB (ASCLEPIAS TUBEROSA) WOOD LILY (LILIUM PHILADELPHICUM) SOLOMON'S SEAL (POLYGONATUM BIFLORUM)

- NOTES:
- THERE ARE A TOTAL OF 14 RAIN GARDENS PROPOSED FOR THE DEVELOPMENT. THEY VARY BY SHAPE AND SUN EXPOSURE. TO DIVERSIFY LANDSCAPE APPEARANCE AND TO PROVIDE PLANTS BEST SUITABLE FOR THE SUN EXPOSURE AT THE SITE, ONLY GENERAL PLANTING INSTRUCTIONS ARE PROVIDED. EACH RAIN GARDEN SHALL HAVE NUMBER OF SHRUBS AND PERENNIAL AS LISTED BELOW. THE LANDSCAPER WILL BE RESPONSIBLE FOR THE PLANT SELECTION.
 - PLANTS SHALL BE CONTAINER-GROWN WITH A WELL ESTABLISHED ROOT SYSTEM.
 - SHREPPED HARDWOOD MULCH SHOULD BE APPLIED UP TO 2 INCHES TO KEEP SOIL IN PLACE.

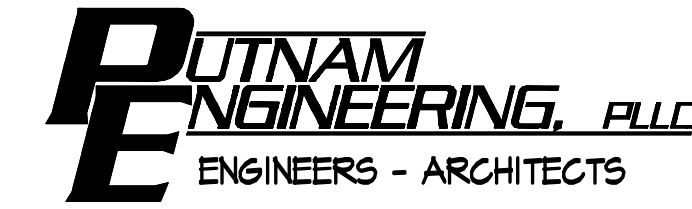


1 DEVELOPMENT SIGN PLANTING PLAN
 C-160 N.T.S.

2 TYP. RAIN GARDEN PLANTING DETAIL
 C-160 N.T.S.

RAIN GARDEN I.D.	AREA (S.F.)	NUMBER OF GARDENS	NO. OF SHRUBS PER GARDEN	TOTAL NO OF SHRUBS	NO. OF PERENNIALS PER GARDEN	TOTAL NO. OF PERENNIALS
R61	220	14	3	30	40	400
R62	-	-	-	-	-	-
R63	-	-	-	-	-	-

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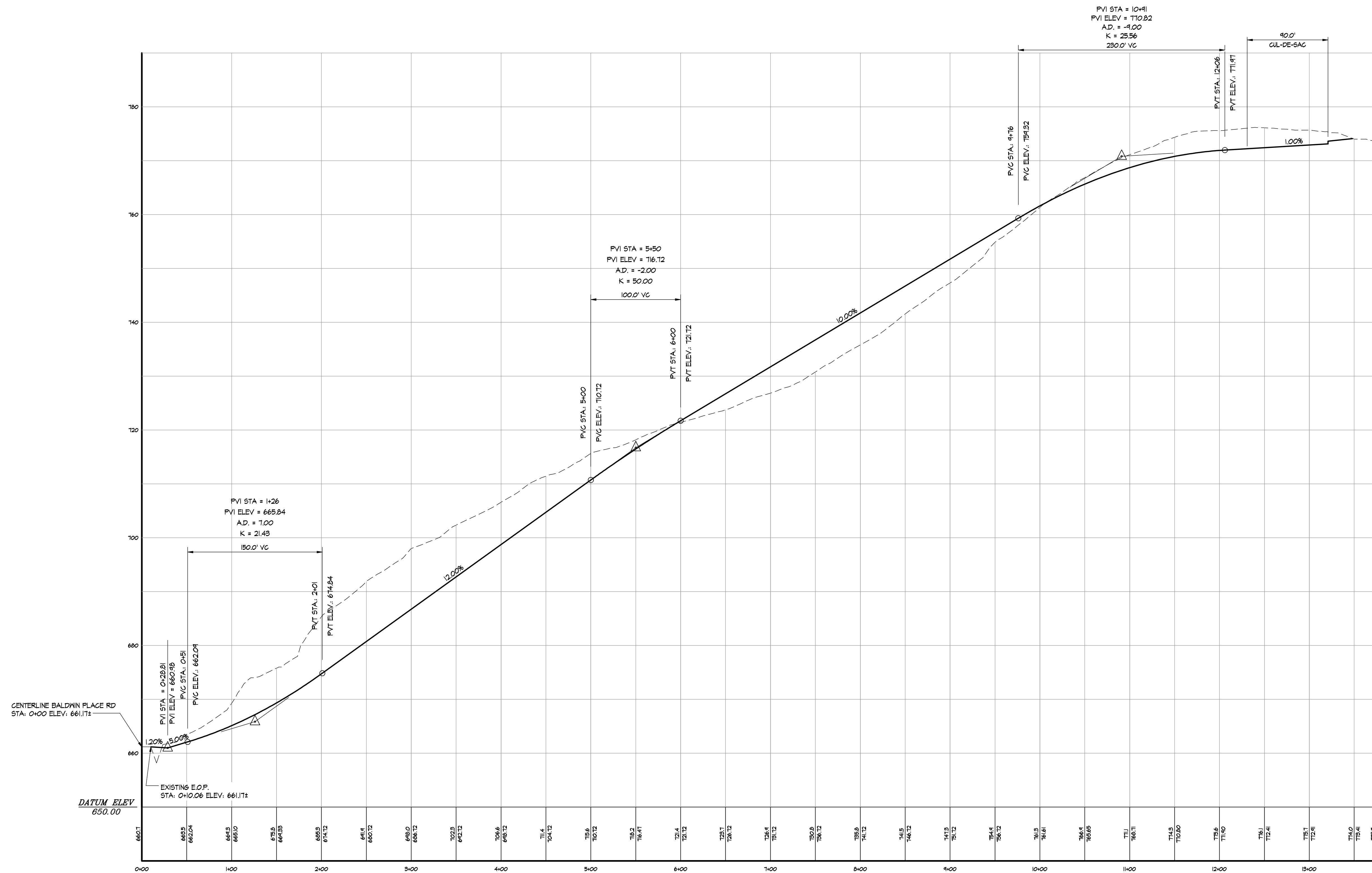
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NO.	DATE	DESCRIPTION

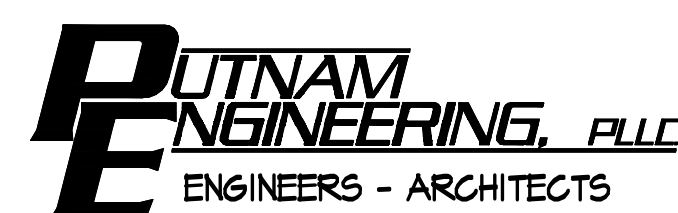
PROJECT: PROPOSED SUBDIVISION PLAN PREPARED FOR:
OLD FORGE ESTATES
 BALDWIN PLACE ROAD
 TOWN OF CARMEL
 PUTNAM COUNTY, NEW YORK
 TAX MAP 75.15-1-14

DATE: 12 APR 18
 PROJECT MANAGER: PML
 DRAWN BY: BJK
 CHECKED BY: PML
 SCALE: AS NOTED

DRAWING: **LANDSCAPE PLAN**
 PROJECT NUMBER: 8286
 DRAWING NUMBER: **C-160**
 SHEET 14 OF 31



A ROAD PROFILE
 C-210 SCALE: HORIZ. 1" = 60', VERT. 1" = 10'



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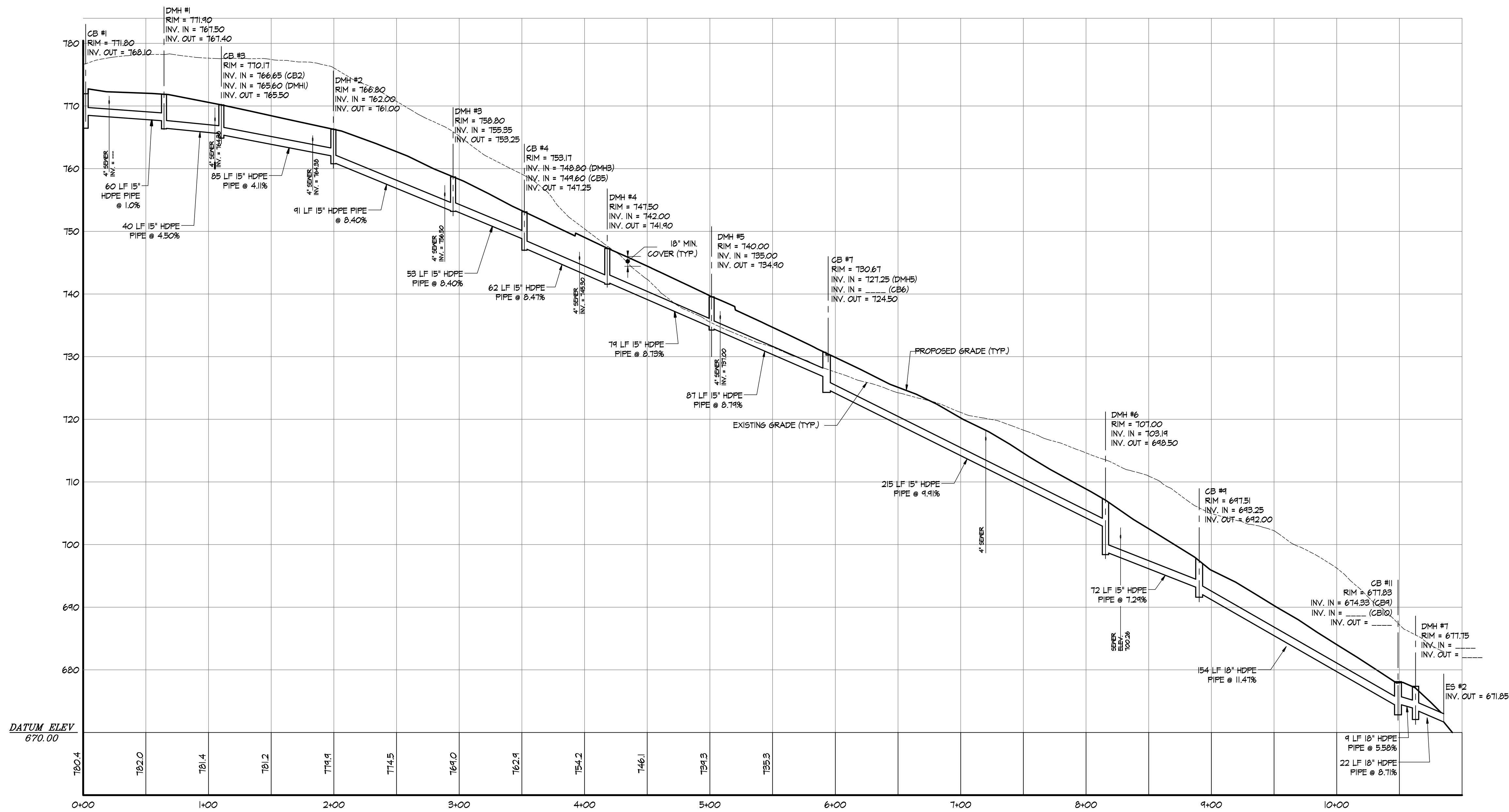
REVISIONS					
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1	04 NOV 18	REV. PER BI, TE, TP COMMENTS			
2	02 OCT 18	REV. PER TE COMMENTS			
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PROJECT
 PROPOSED SUBDIVISION PLAN PREPARED FOR:
OLD FORGE ESTATES
 BALDWIN PLACE ROAD
 TOWN OF CARMEL
 PUTNAM COUNTY, NEW YORK
 TAX MAP 15.15-1-14

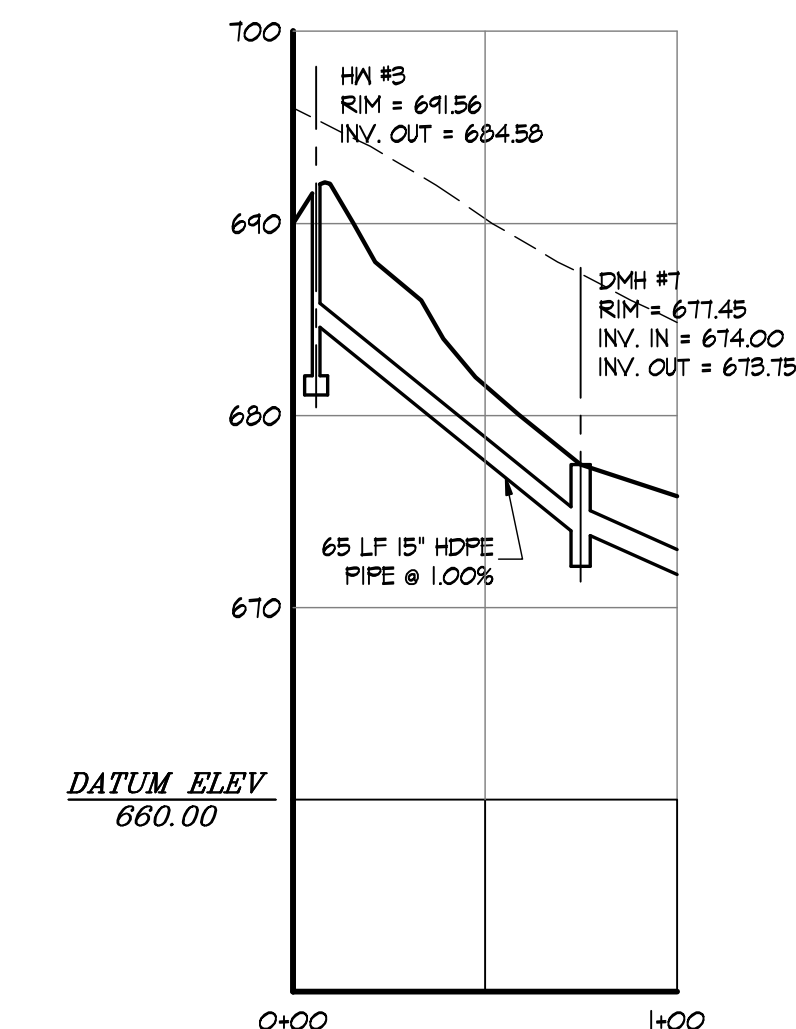
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DRAWING
ROAD PROFILE

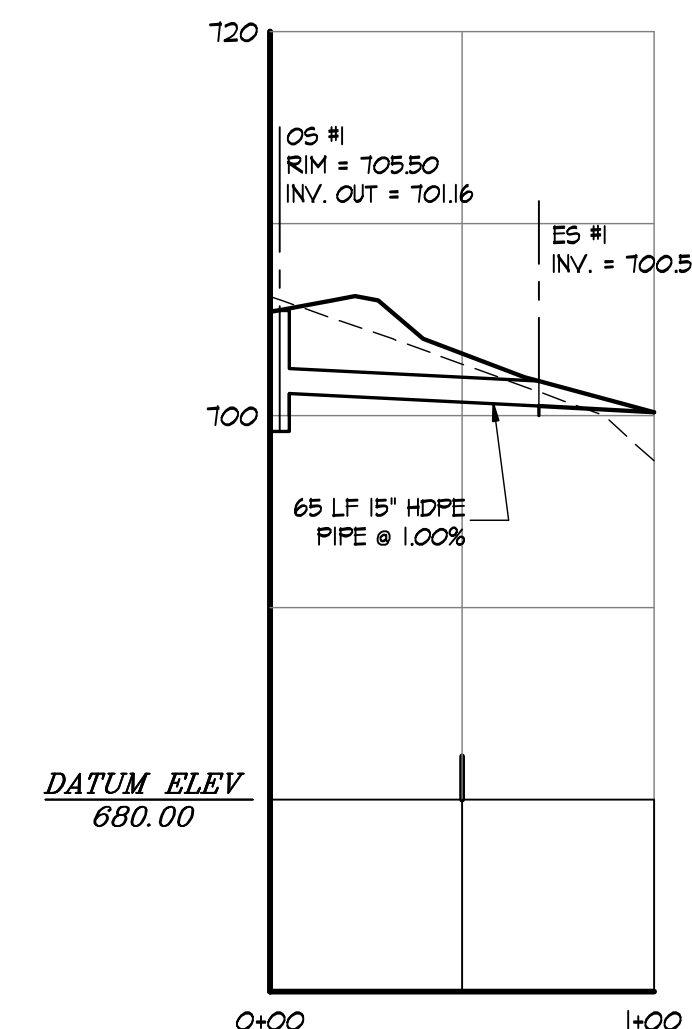
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 8286
 DRAWING NUMBER
C-210
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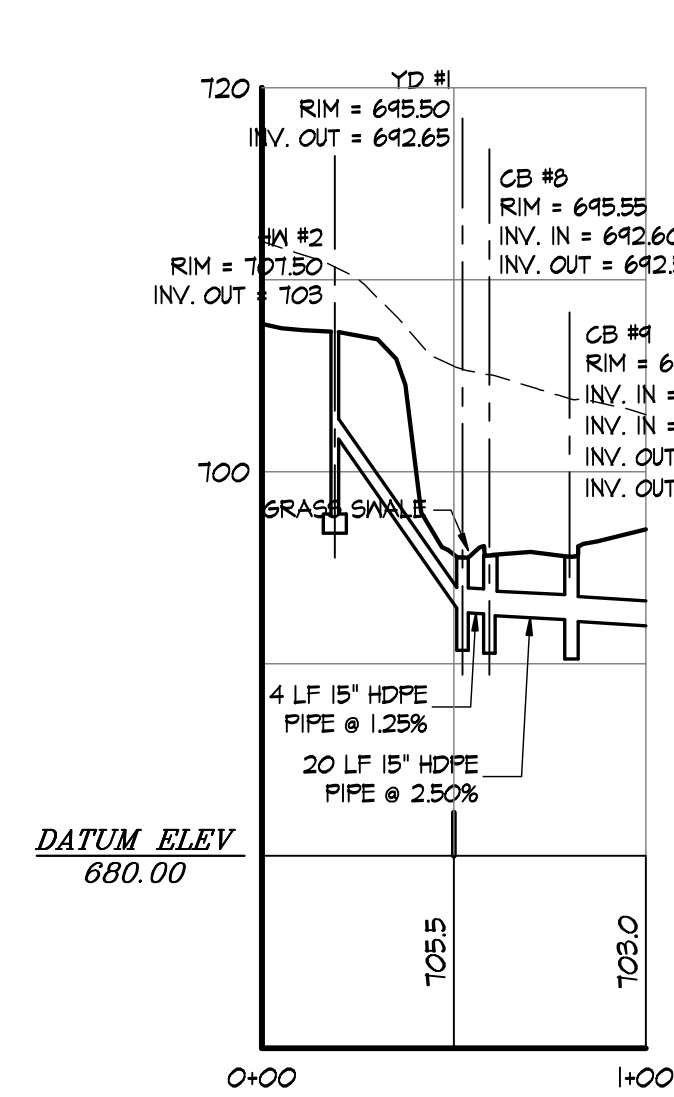
PROFILE CBI - ES5



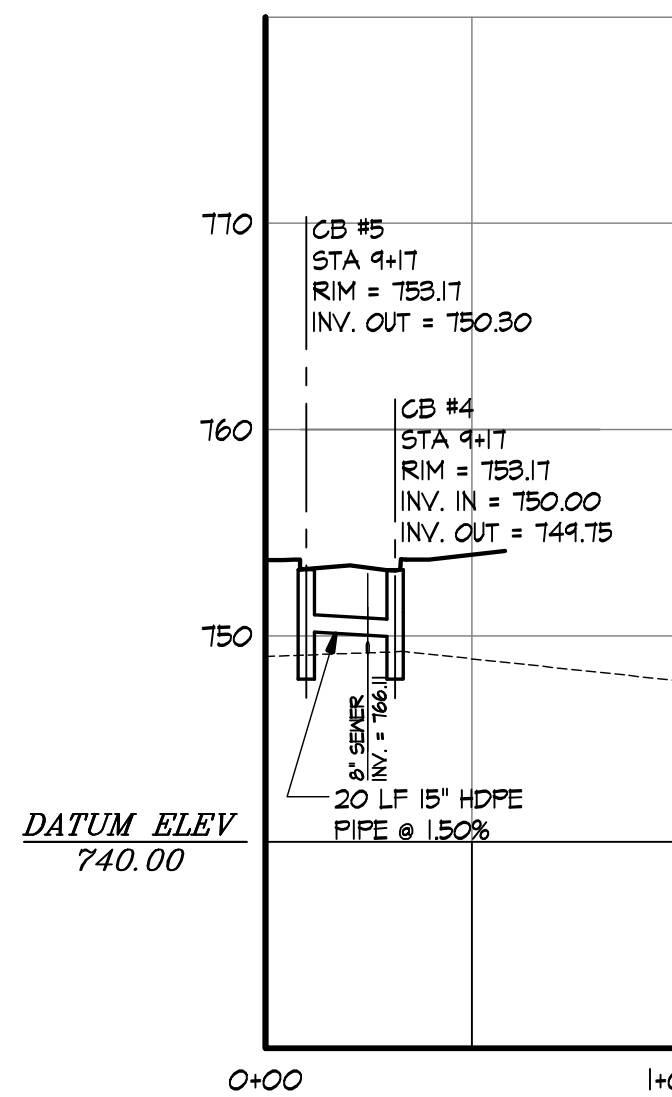
PROFILE HW3 - DMH7



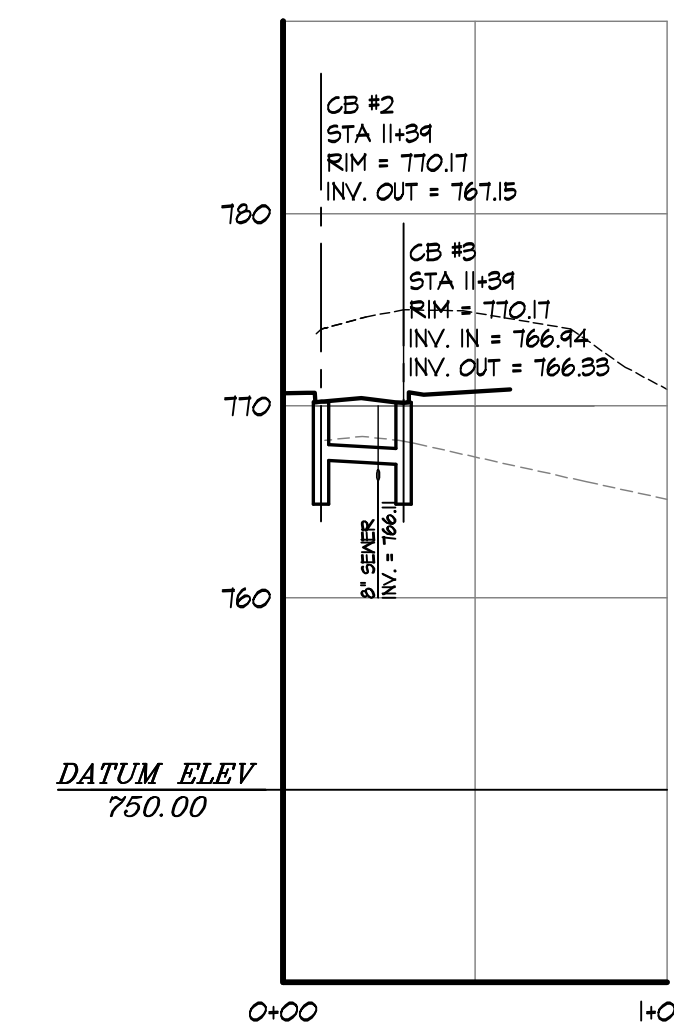
PROFILE OSI - ESI



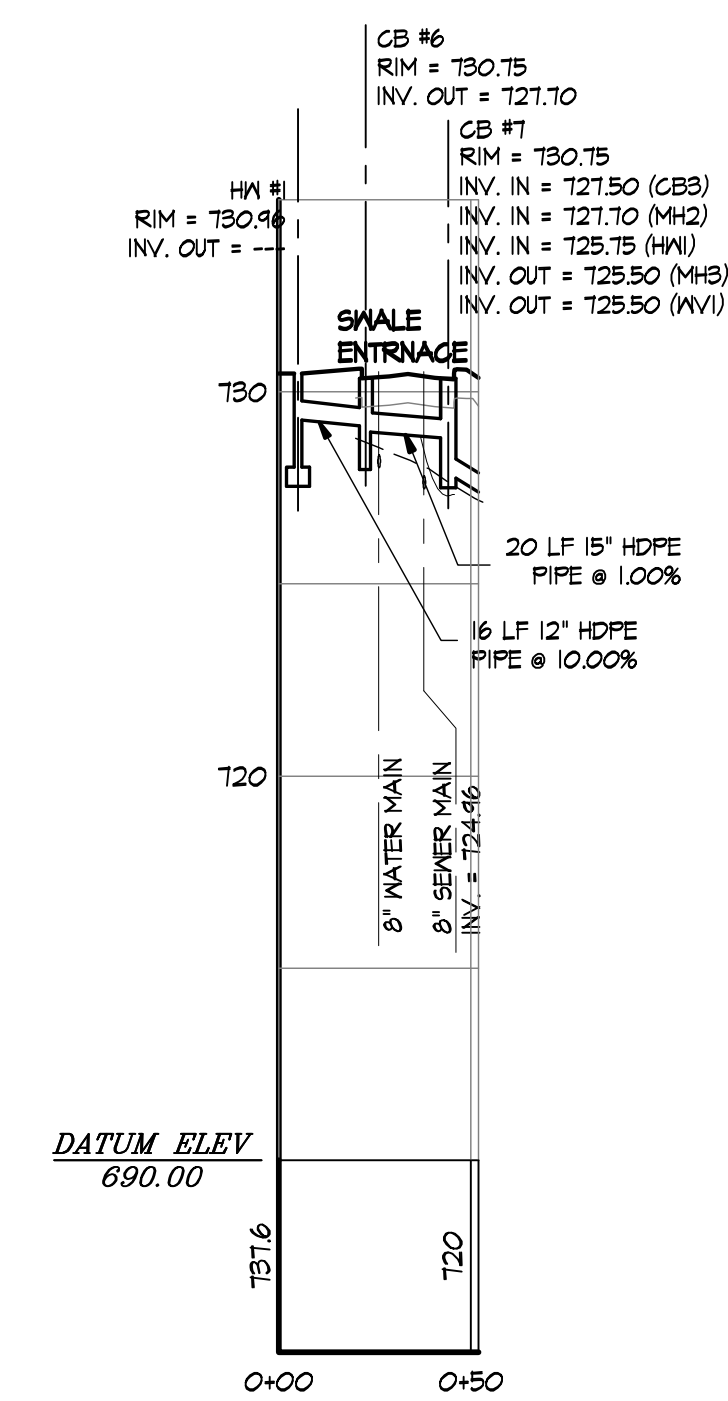
PROFILE HW2 - CB9



PROFILE CB5 - CB4



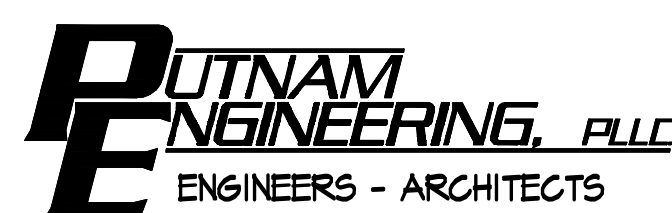
PROFILE CB2 - CB3



PROFILE HW1 - CB7

STORM DRAIN PROFILES

SCALE: HORIZ. 1" = 50', VERT. 1" = 10'



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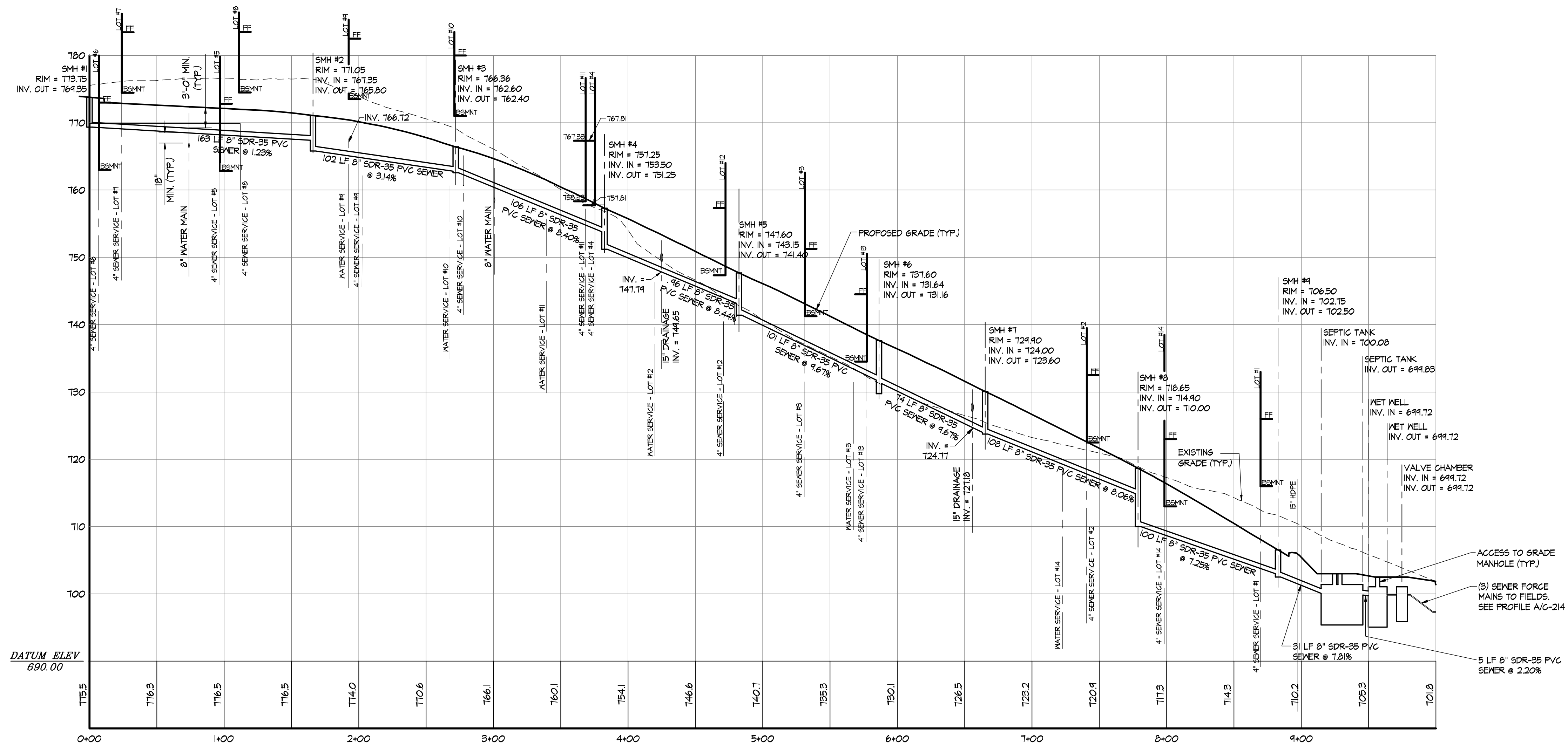
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PROJECT
 PROPOSED SUBDIVISION PLAN PREPARED FOR:
OLD FORGE ESTATES
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 TOWN OF CARMEL
 PUTNAM COUNTY, NEW YORK
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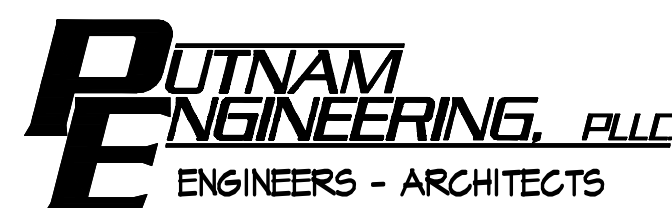
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STORM DRAIN PROFILES

PROJECT NUMBER
 8286
 DRAWING NUMBER
C-211
 SHEET 22 OF 34



A SANITARY SEWER PROFILE
 C-212 SCALE: HORIZ. 1" = 50', VERT. 1" = 10'



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PROPOSED SUBDIVISION PLAN PREPARED FOR:
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 BALDWIN PLACE ROAD
 TOWN OF CARMEL
 PUTNAM COUNTY, NEW YORK
 TAX MAP 15.15-1-14

DATE: 12 APR 18
 PROJECT MANAGER: PML
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 SCALE: AS NOTED

DRAWING: SANITARY SEWER PROFILE

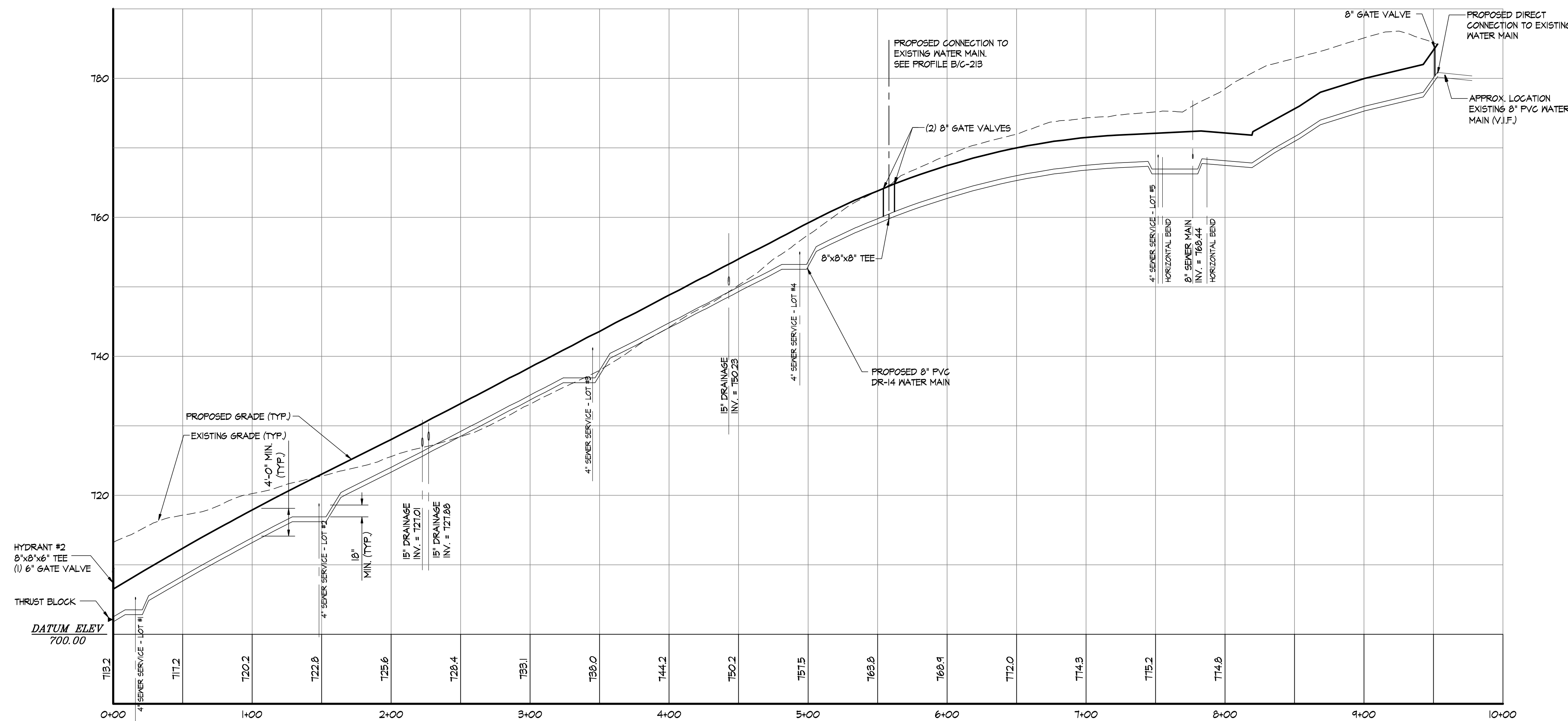
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 DRAWING NUMBER: C-212
 SHEET 23 OF 34

FIRE HYDRANT NOTES:

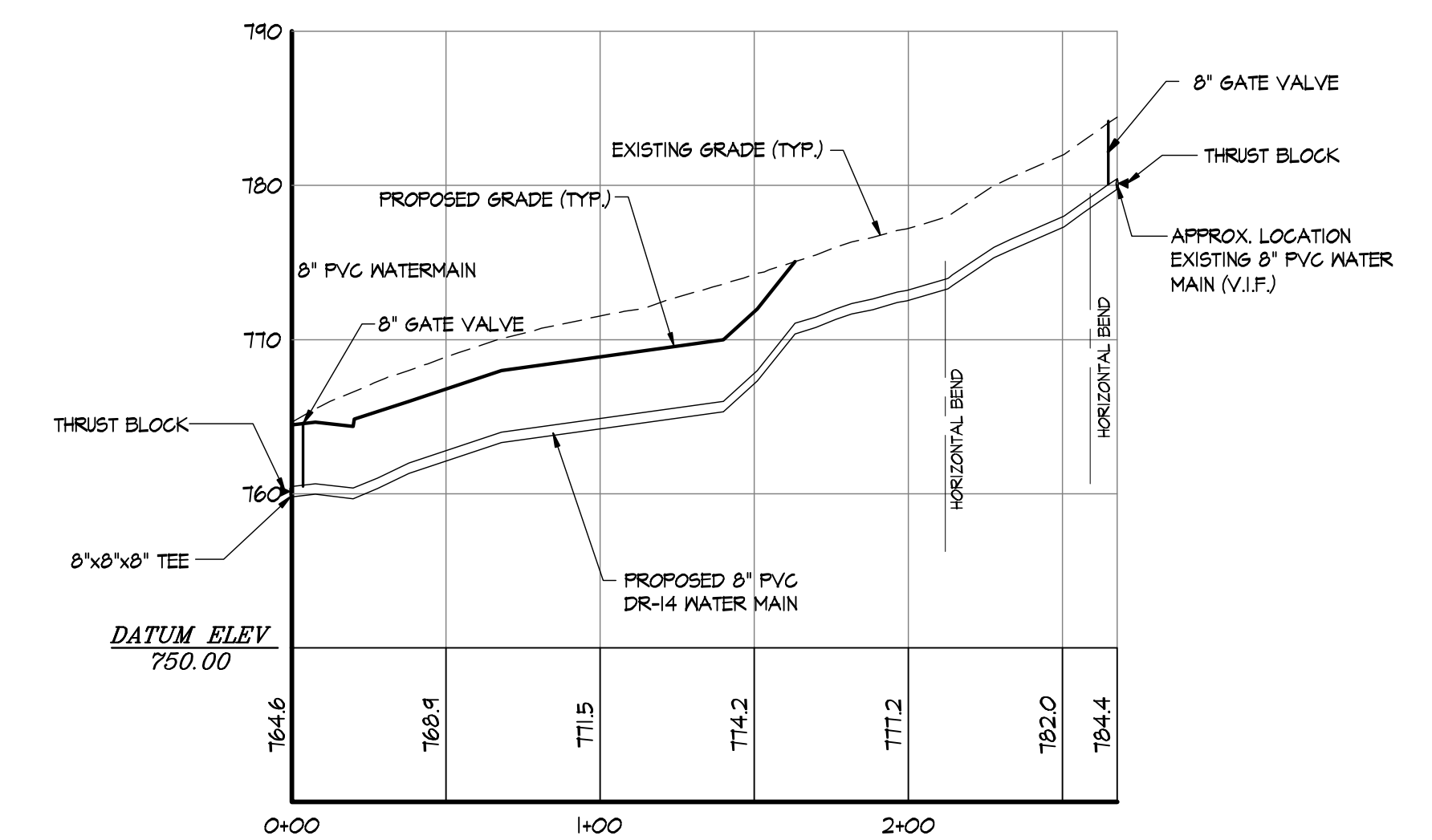
1. ALL FIRE HYDRANTS SHALL BE THE APPROVED AWWA TYPE FIRE HYDRANTS IN CONFORMANCE WITH THE AMERICAN WATER WORKS ASSOCIATION STANDARD FOR FIRE HYDRANTS FOR ORDINARY WATER WORKS SERVICE, AWWA DESIGNATION C502, AND SHALL HAVE A 5-1/4 INCH VALVE OPENING, A 6 INCH MECHANICAL JOINT INLET COMPLETE WITH AN AUXILIARY GATE VALVE (CLOSE COUPLED), A 6 INCH MECHANICAL SHOE, AND ALL APPURTENANCES.
2. FIRE HYDRANTS SHALL BE RATED FOR A WORKING PRESSURE OF 250 PSI. FIRE HYDRANTS SHALL BE SIZED FOR A 4'-6" BURY.

VALVE NOTES:

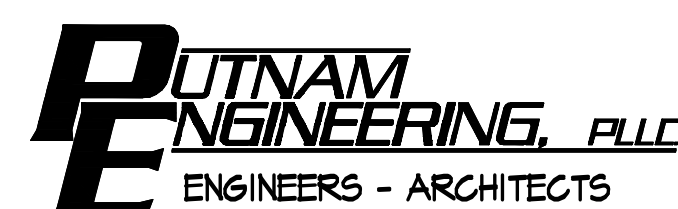
1. GATE VALVES SHALL BE AWWA NON-RISING STEM TYPE, AS MANUFACTURED BY 'MUELLER CO.', MODEL A-2360-23, OR APPROVED EQUAL, CONFORMING TO THE LATEST AWWA STANDARD FOR GATE VALVES - 3" THROUGH 48" - FOR WATER AND OTHER LIQUIDS, AWWA DESIGNATION C504.
2. SIZES UP TO AND INCLUDING 12 INCHES SHALL BE 250 PSI WORKING PRESSURE. THE VALVE BODY AND BONNET SHALL BE DUCTILE IRON. ALL INTERIOR AND EXTERIOR METAL SURFACES SHALL BE COATED WITH A TWO-PART THERMOSETTING EPOXY COMPLYING WITH AWWA C550.
3. VALVES SHALL HAVE DUAL 'O' RING SEALS, INSIDE SCREW, RESILIENT WEDGE SEATS IN ACCORDANCE WITH AWWA DESIGNATION C550 AND SHALL BE CONSTRUCTED SO AS TO PROVIDE UNOBSTRUCTED FULL PORT CLEARANCE WHEN FULLY OPEN AND IMMEDIATE COMPLETE CLOSURE WHEN CLOSED. THE ENDS OF THE VALVES SHALL BE MECHANICAL JOINT.
4. ALL VALVES SHALL BE ARRANGED TO OPEN IN COUNTER CLOCKWISE DIRECTION UNLESS OTHERWISE SPECIFICALLY INDICATED AND OPERATING NUTS SHALL BE 2 INCH SQUARE.
5. VALVES SHALL BE TESTED TO A PRESSURE OF NOT LESS THAN TWO TIMES THE WORKING PRESSURE.



A WATERMAIN PROFILE: WATERMAIN ALONG ROAD
 SCALE: HORIZ. 1" = 50', VERT. 1" = 10'



B WATERMAIN PROFILE: CONNECTION TO EXISTING WATERMAIN - EASTERN TIE-IN
 SCALE: HORIZ. 1" = 50', VERT. 1" = 10'



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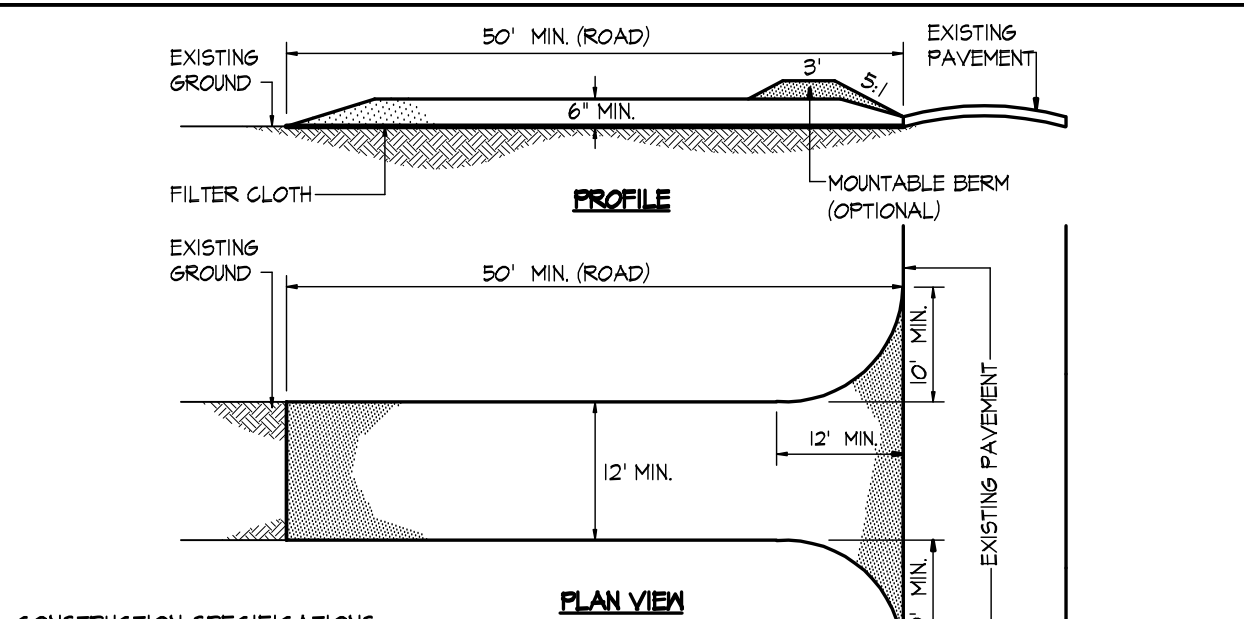
REVISIONS		PROJECT			
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PROPOSED SUBDIVISION PLAN PREPARED FOR:
OLD FORGE ESTATES
 BALDWIN PLACE ROAD
 TOWN OF CARMEL
 PUTNAM COUNTY, NEW YORK
 TAX MAP 15.15-1-14

DATE: 12 APR 18
 PROJECT MANAGER: PML
 DRAWN BY: BJK
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 SCALE: AS NOTED

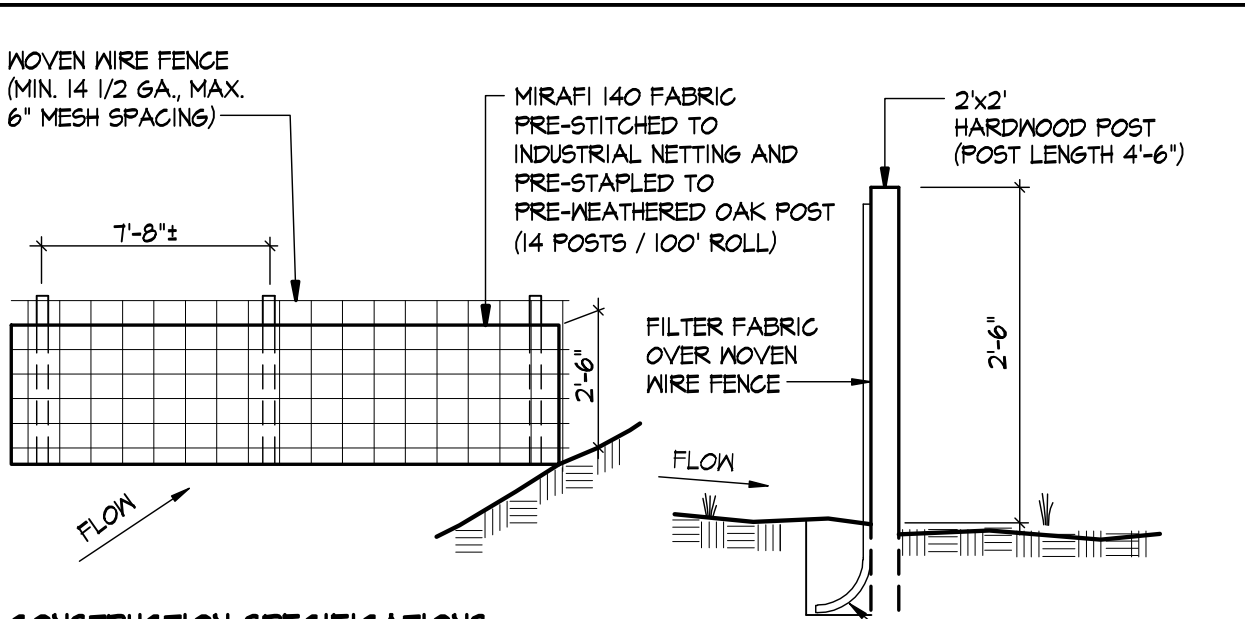
DRAWING: **WATERMAIN PROFILES**

PROJECT NUMBER: 8286
 DRAWING NUMBER: **C-213**
 SHEET 24 OF 34



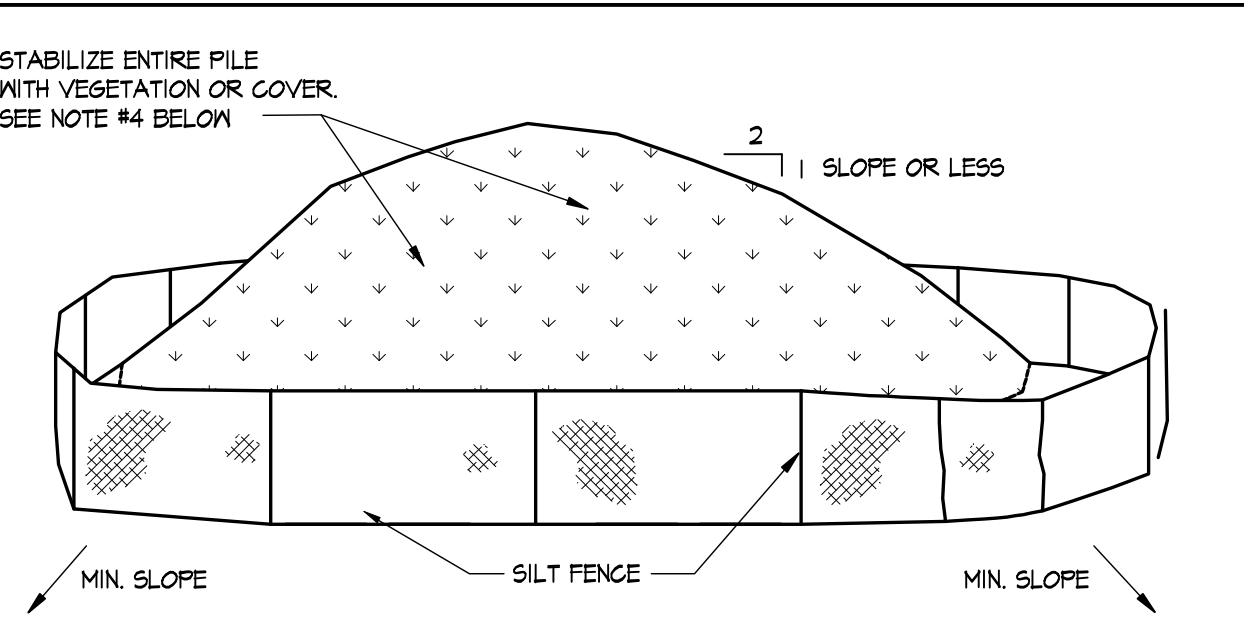
- CONSTRUCTION SPECIFICATIONS:**
- STONE SIZE - USE 1-4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 - LENGTH - NOT LESS THAN 50 FEET EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.
 - THICKNESS - NOT LESS THAN SIX (6) INCHES FOR LIGHT DUTY ROADS AND SINGLE FAMILY RESIDENCES, NOT LESS THAN TEN (10) INCHES FOR HEAVY DUTY ROADS.
 - WIDTH - TWELVE (12) FOOT MINIMUM BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
 - FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA ABOVE TO PLACINGS OF STONE, "MIRAFI" 600X, OR APPROVED EQUAL.
 - SURFACE WATER - ALL SURFACE WATER FLOWS OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH 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 RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
 - WASHING - 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.

1 STABILIZED CONSTRUCTION ENTRANCE DTL.
C-310 N.T.S.



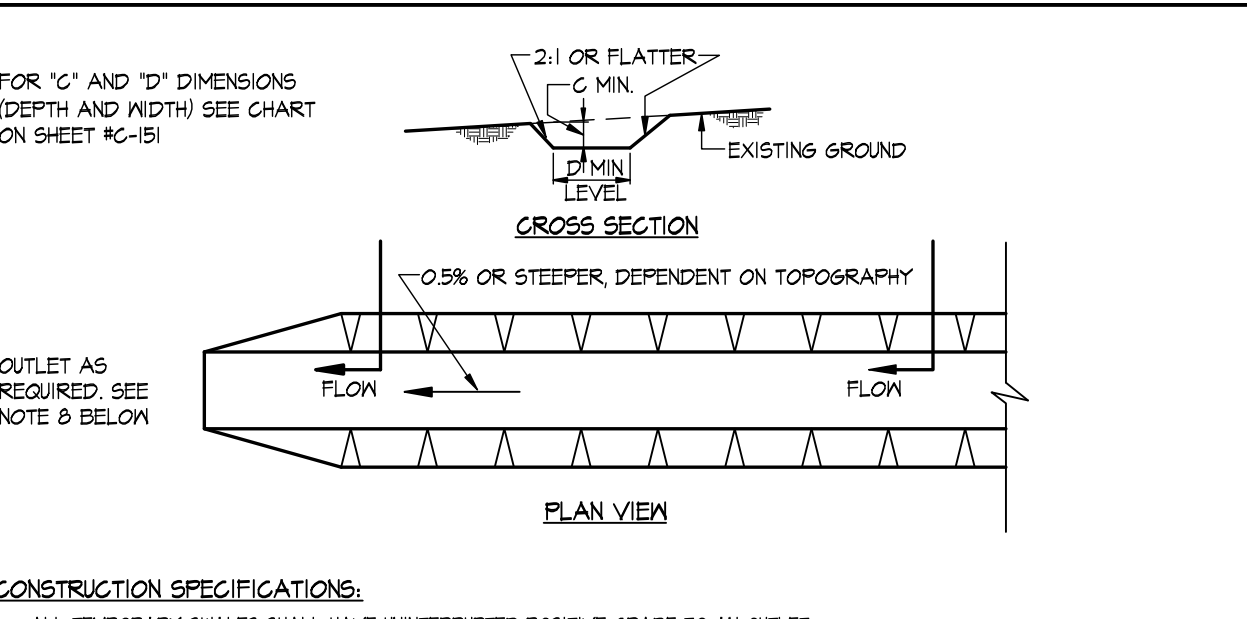
- CONSTRUCTION SPECIFICATIONS:**
- NOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. NOVEN WIRE SHALL BE 14 1/2 GA. 6" MAX. MESH OPENINGS.
 - FILTER FABRIC TO BE EMBEDDED IN SOIL A MIN. OF 6". FILTER CLOTH TO BE FASTENED SECURELY TO NOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
 - INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
 - SILT FENCE TO BE REMOVED AT END OF CONSTRUCTION BUT NOT BEFORE ALL DISTURBED AREAS ARE STABILIZED AND VEGETATED.
 - FOR SILT FENCE INSTALLATION ON PAVED AREAS, REMOVE PORTION OF ASPHALT NECESSARY TO TOE-IN THE FABRIC AND TO INSTALL THE POSTS. THE PAVEMENT SHALL BE RESTORED BEFORE FINAL SITE CLEANING.

2 SILT FENCE DETAILS
C-310 N.T.S.



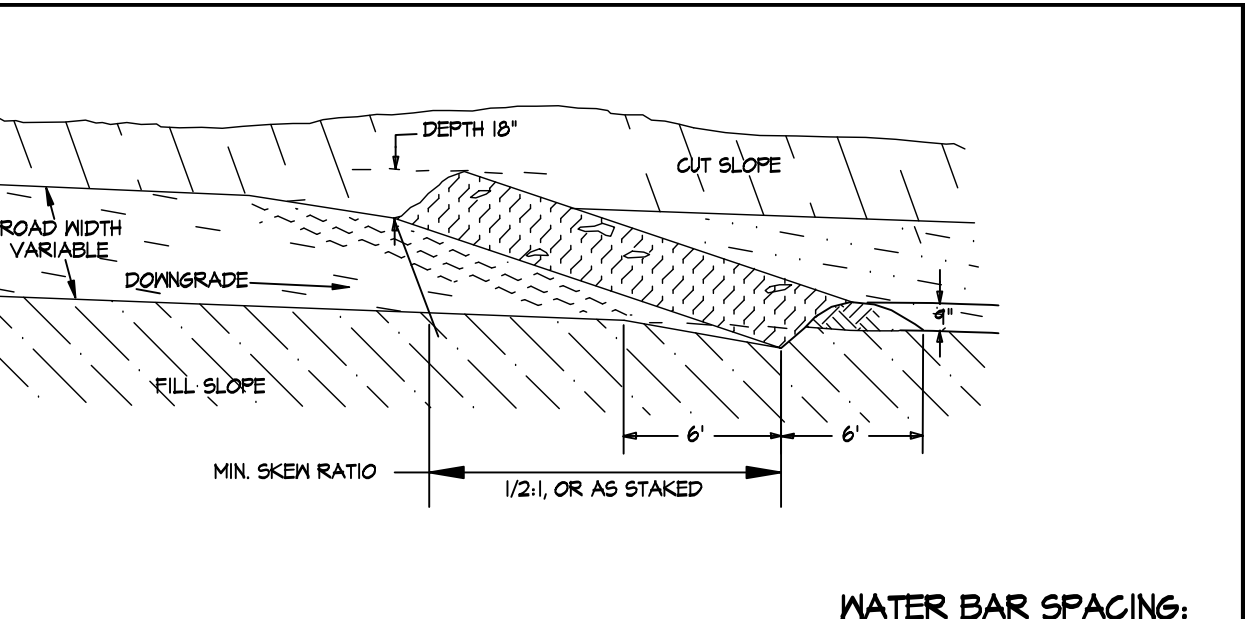
- INSTALLATION NOTES:**
- AREA CHOSEN FOR STOCKPILE OPERATIONS SHALL BE DRY AND STABLE.
 - MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
 - UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH SILT FENCING.
 - SPRING/SUMMER/FALL SEEDING: SEED WITH PERENNIAL RYE GRASS @ 40 LBS/AC. STABILIZATION FROM NOVEMBER 1 THROUGH MARCH 31 SHALL BE BY A ROLLED EROSION CONTROL PRODUCT OR MAY BE HYDROSEEDED WITH WINTER RYE WITH A HEAVY MULCH LAYER. RESEED STOCKPILE IN SPRING AS NOTED ABOVE.
 - SEE SILT FENCE DETAIL FOR SILT FENCE INSTALLATION SPECIFICATIONS.

3 TOPSOIL STOCKPILE DETAIL
C-310 N.T.S.



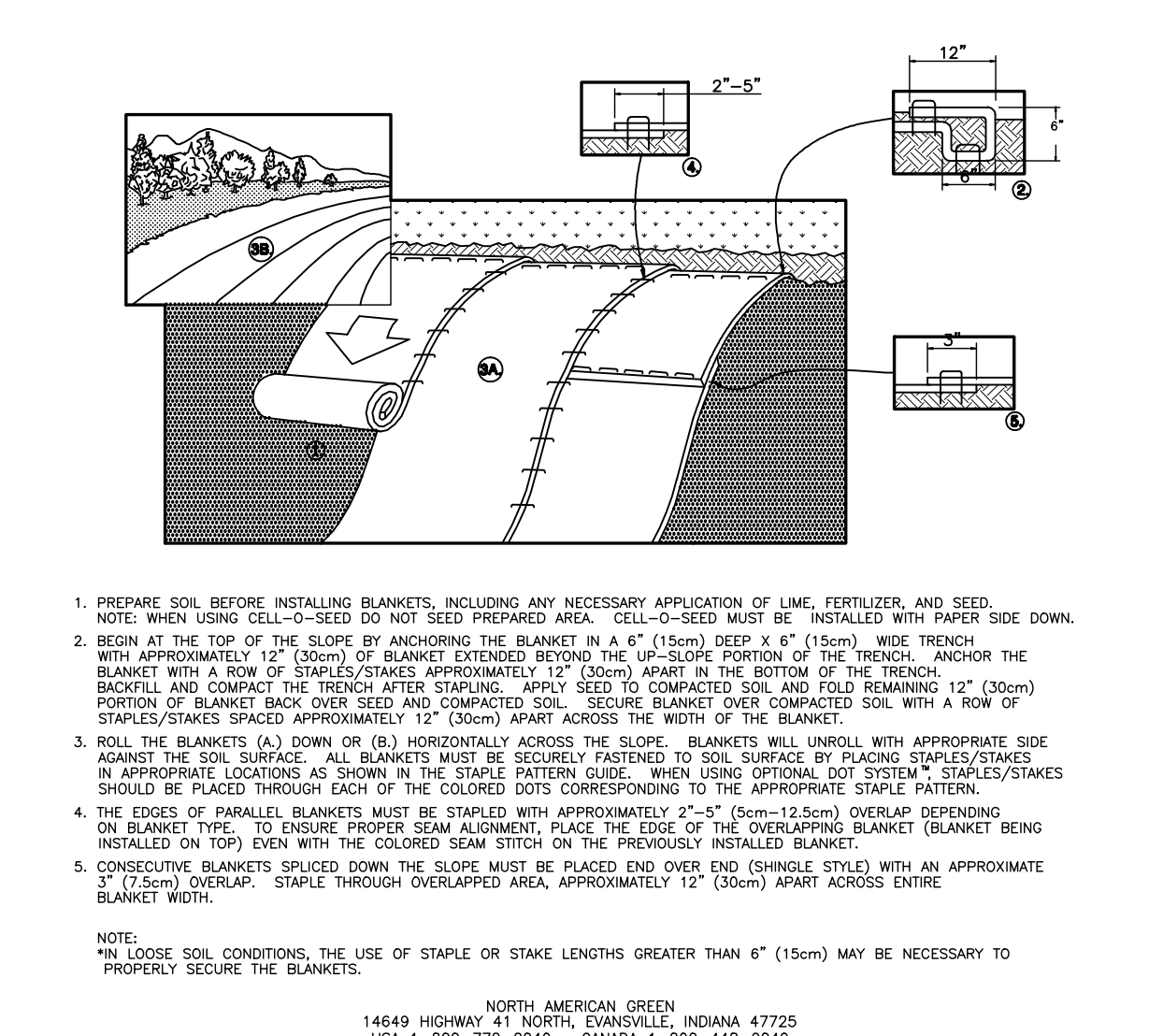
- CONSTRUCTION SPECIFICATIONS:**
- ALL TEMPORARY SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
 - DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
 - DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
 - ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
 - THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPED EROSION.
 - FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
 - ALL EARTH REMOVED AND NOT NEEDED ON CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.
 - STABILIZATION SHALL BE AS PER THE CHART BELOW.
- | TYPE OF TREATMENT | CHANNEL GRADE | A (5 AC OR LESS) |
|-------------------|---------------|-----------------------------------|
| 1 | 0.5%-2% | SEED AND STRAW MULCH |
| 2 | 3%-5% | SEED AND STRAW MULCH |
| 3 | 5%-8% | SEED WITH LITE OR EXCELISIOR, SOD |
| 4 | 8%-20% | LINED 4-8\"/> |
4. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

4 TEMPORARY SWALE DETAILS
C-310 N.T.S.



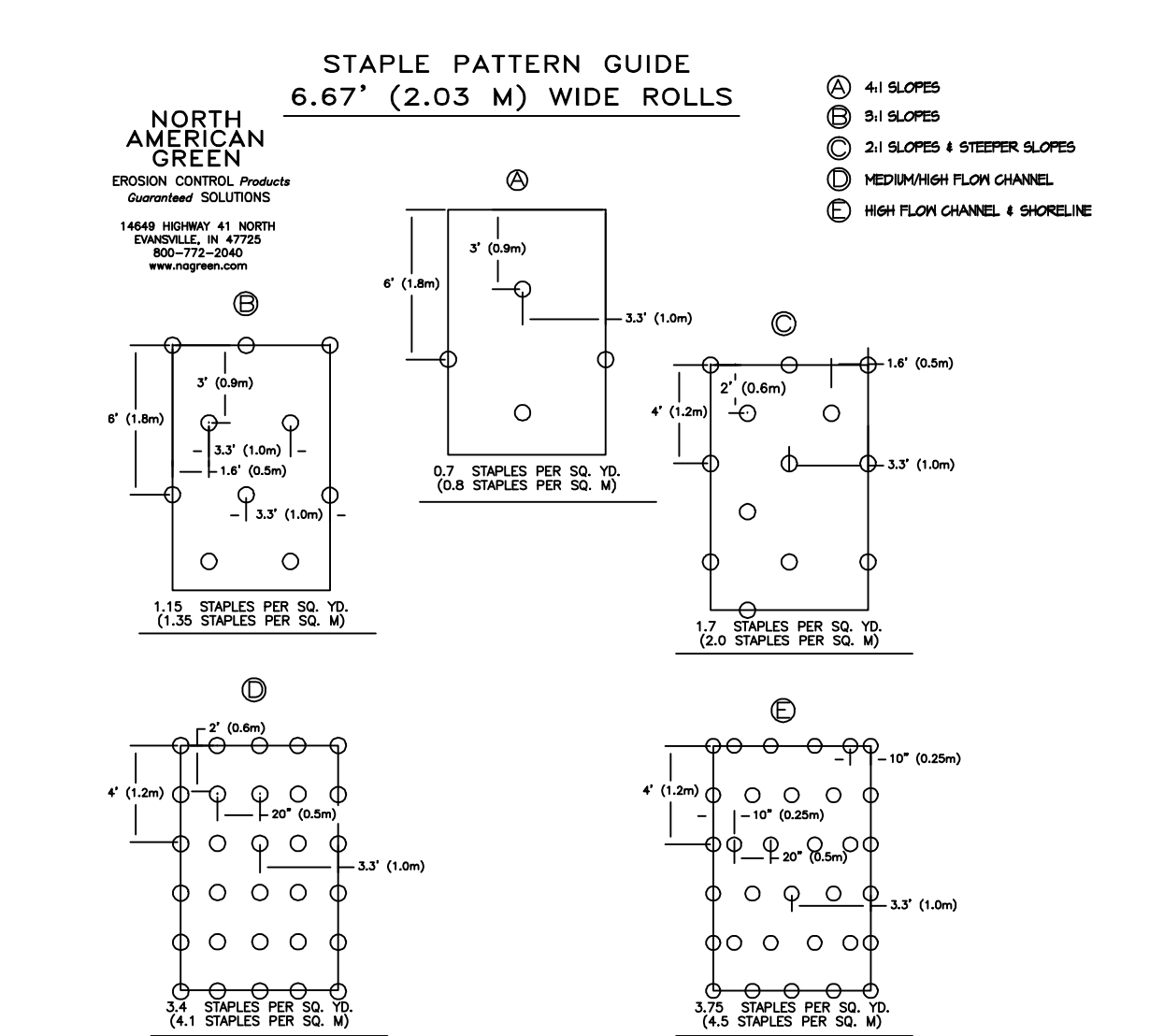
- CONSTRUCTION SPECIFICATIONS:**
- INSTALL THE WATER BAR AS SOON AS THE RIGHT OF WAY IS CLEARED AND GRADED.
 - DISK OR STRIP THE SOIL FROM THE BASE OF THE CONSTRUCTED RIDGE BEFORE PLACING FILL.
 - TRACK THE RIDGE TO COMPACT IT TO THE DESIGN CROSS SECTION.
 - THE OUTLET SHALL BE LOCATED ON AN UNDISTURBED AREA. FIELD SPACINGS WILL BE ADJUSTED TO USE THE MOST STABLE OUTLET AREAS. OUTLET PROTECTION WILL BE PROVIDED WHEN NATURAL AREAS ARE NOT ADEQUATE.
 - VEHICLE CROSSINGS SHALL BE STABILIZED WITH GRAVEL. EXPOSED AREAS SHALL BE IMMEDIATELY SEEDDED AND MULCHED.
 - PERIODICALLY INSPECT WATER BARS FOR EROSION DAMAGE AND SEDIMENT. CHECK OUTLET AREAS AND MAKE REPAIRS AS NEEDED TO RESTORE OPERATION.
- | WATER BAR SPACING: | SLOPE (%) | SPACING (FT) |
|--------------------|-----------|--------------|
| 1 | 5 | 125 |
| 2 | 5 TO 10 | 100 |
| 3 | 10 TO 20 | 75 |
| 4 | 20 TO 35 | 50 |
| 5 | 35 | 25 |
- NOTES:**
- ALL WATER BARS SHALL BEGIN AT THE INTERSECTION OF THE ROADBED AND CUT SLOPE AND RUN ACROSS THE ENTIRE WIDTH OF THE ROADBED.
 - ALL WATER BARS SHALL HAVE FREE FLOWING OUTLETS.
 - WHEN STAKES ARE USED, THEY DESIGNATE THE OUTLET LOCATION.

5 WATER BAR DETAIL
C-310 N.T.S.

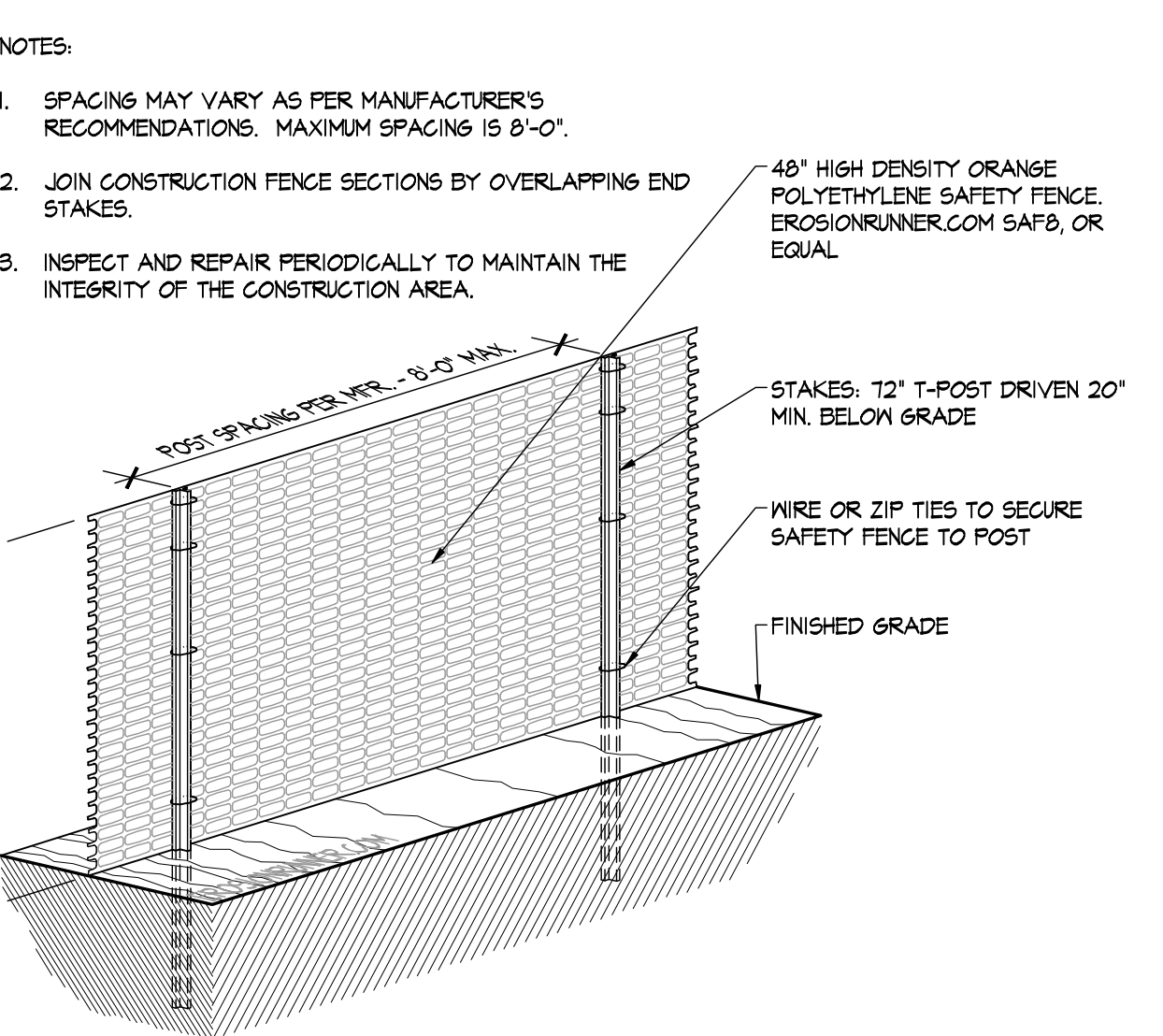


- CONSTRUCTION SPECIFICATIONS:**
- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
 - BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDING BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH. AFTER SEED TO COMPACTED SOIL AND FILL REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.
 - ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLOURED KNOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
 - THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5cm - 12.5cm) OVERLAP DEPENDENT ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET BEING INSTALLED ON TOP EVEN WITH THE COLOURED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
 - CONSECUTIVE BLANKETS SPUN DOWN THE SLOPE MUST BE PLACED END OVER END (HORIZONTAL STITCH) WITH AN APPROXIMATE 3" (7.5cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE BLANKET WIDTH.
- NOTE:**
IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15cm) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

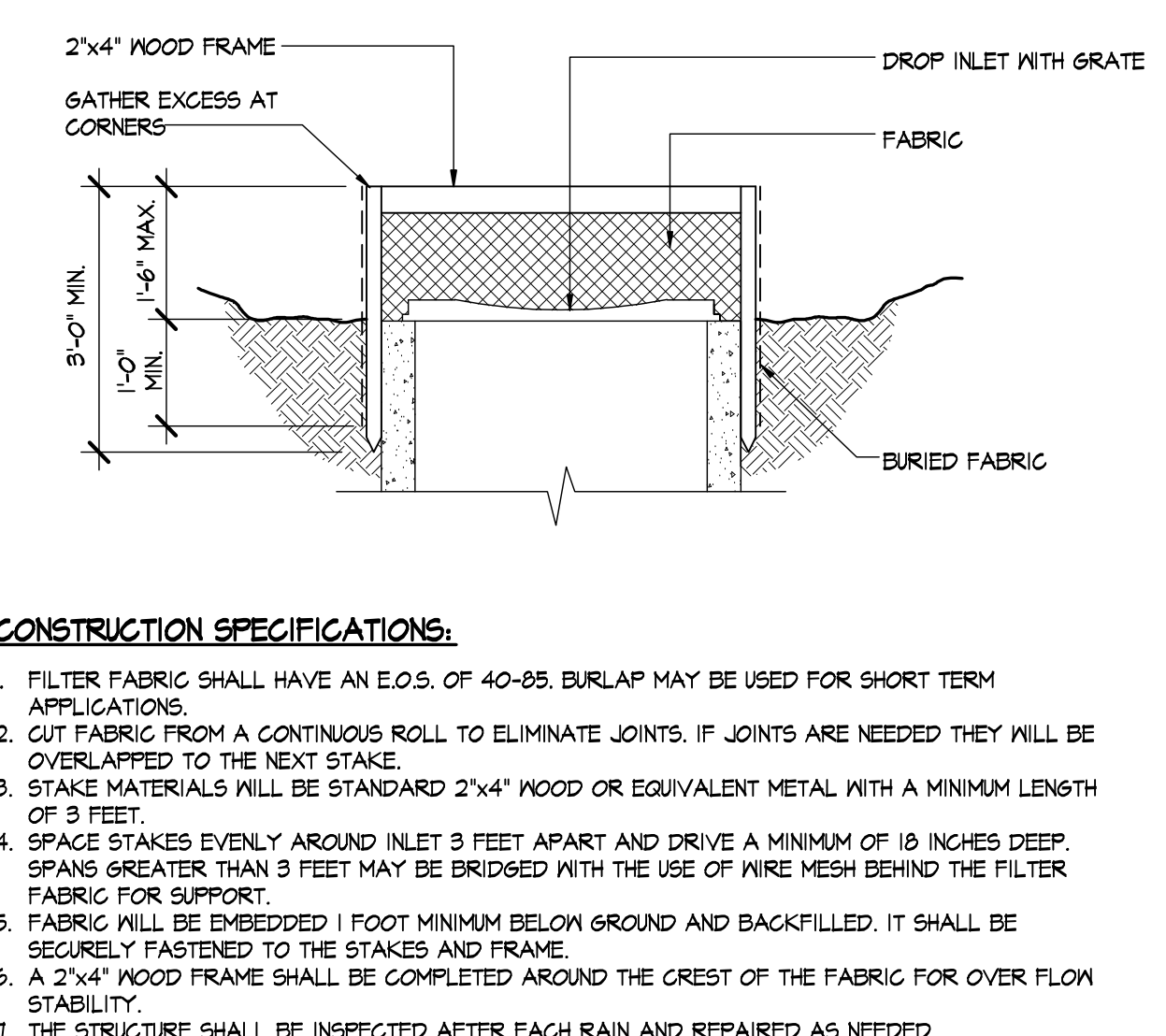
6 EROSION CONTROL BLANKET INSTAL. DTL.
C-310 N.T.S.



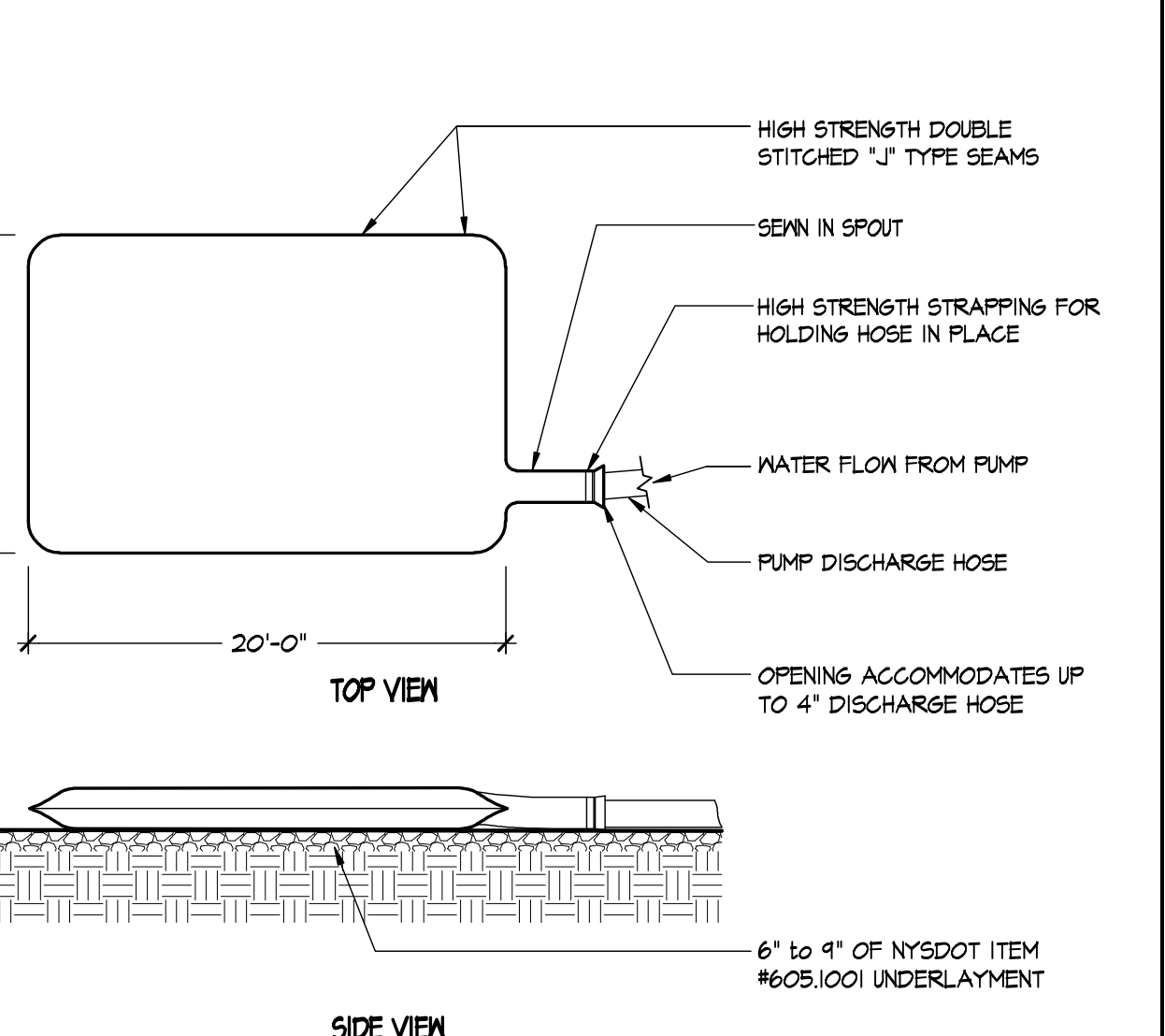
7 EROSION CONTROL BLANKET STAPLE PATTERNS
C-310 N.T.S.



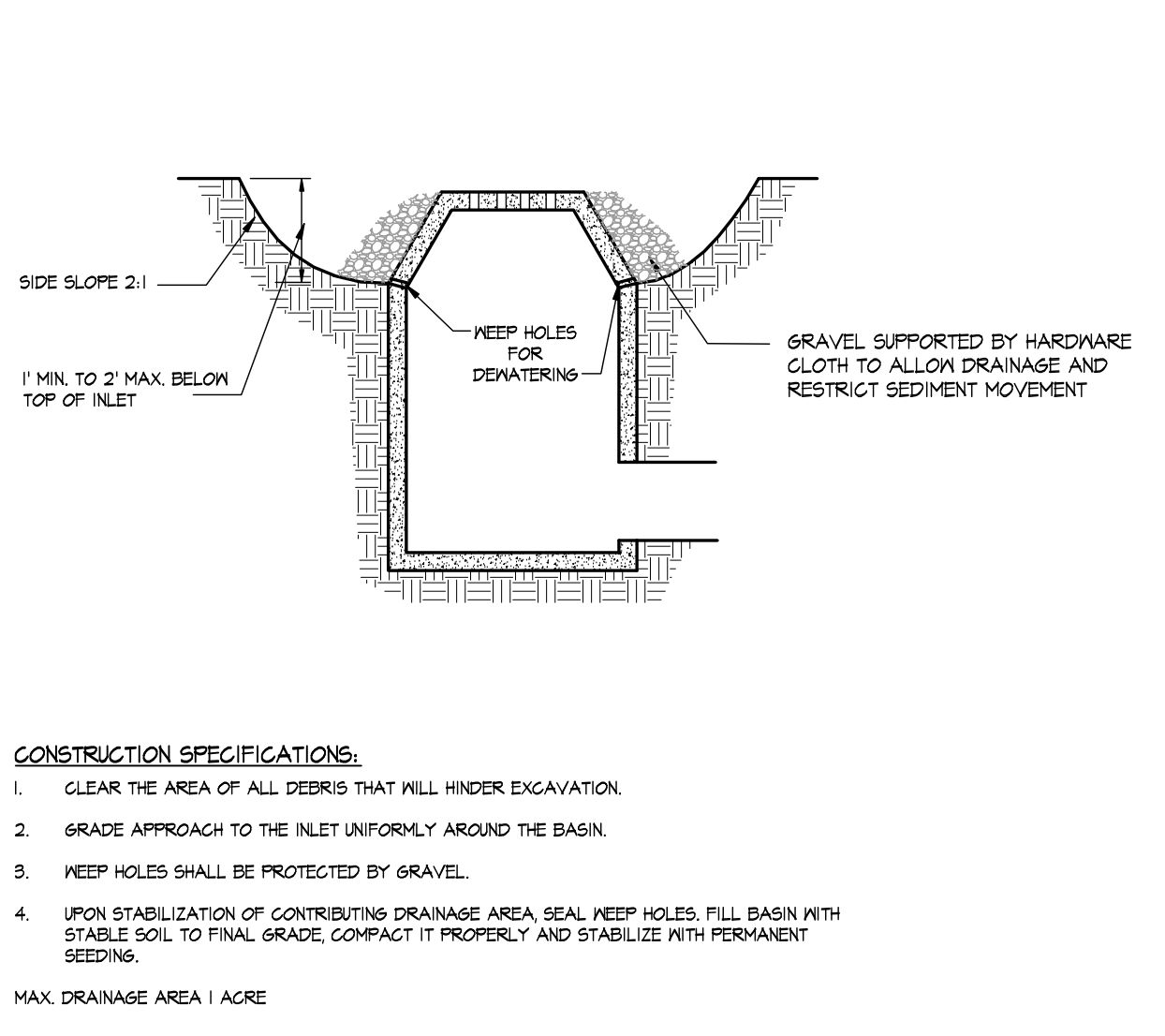
8 CONSTRUCTION SAFETY FENCE DTL.
C-310 N.T.S.



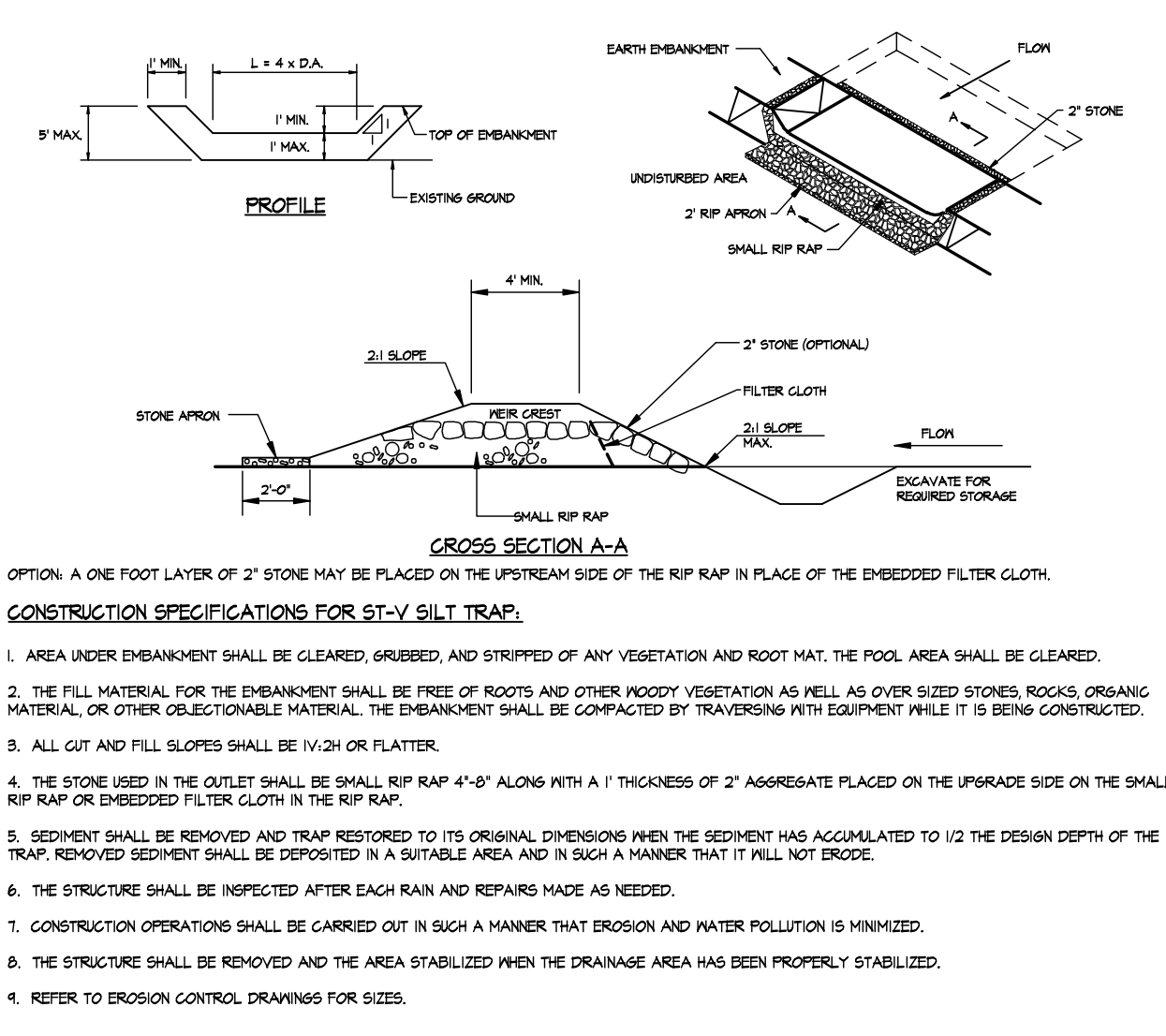
9 CURB INLET PROTECTION
C-310 N.T.S.



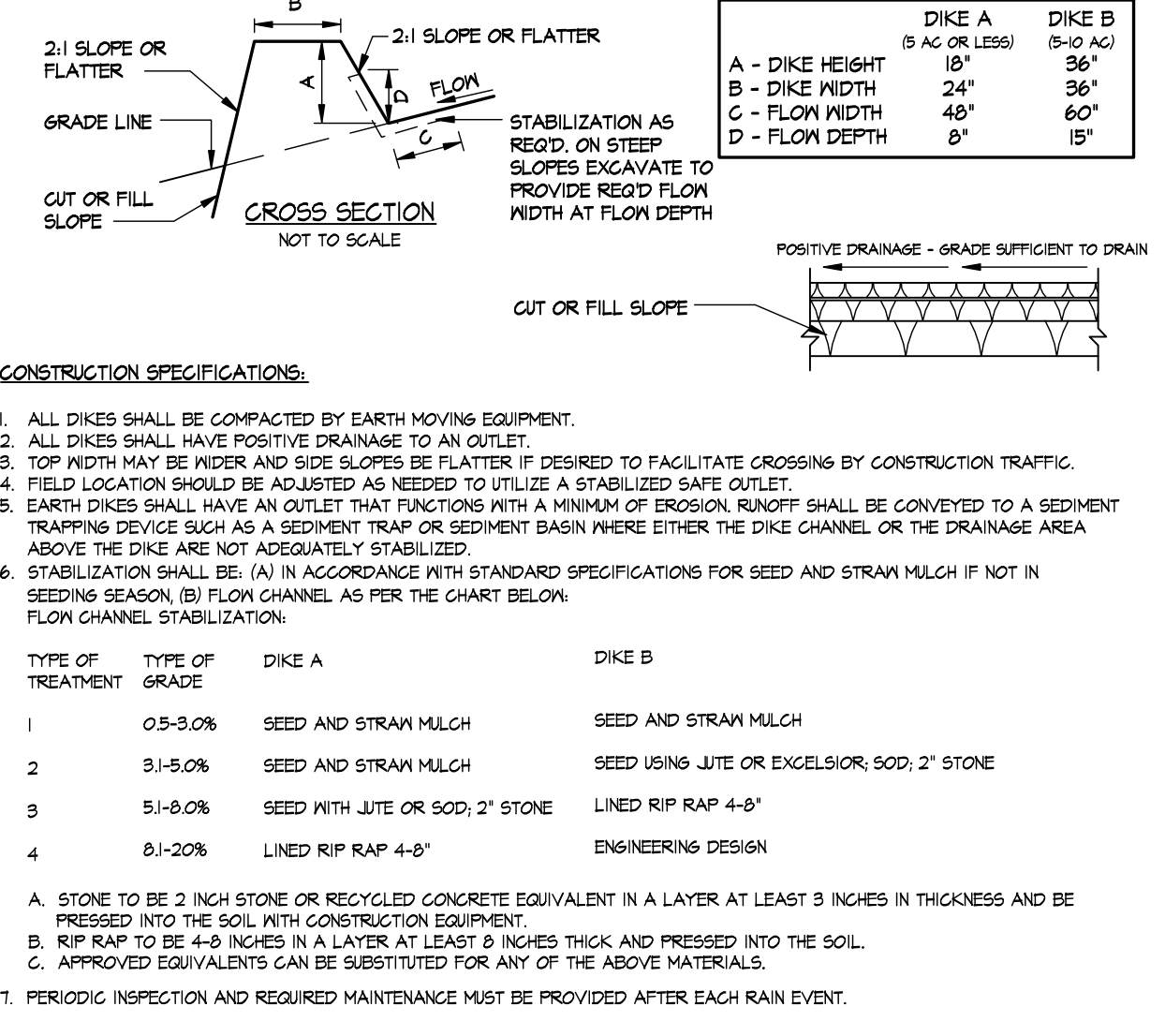
10 DEWATERING BAG DETAIL
C-310 N.T.S.



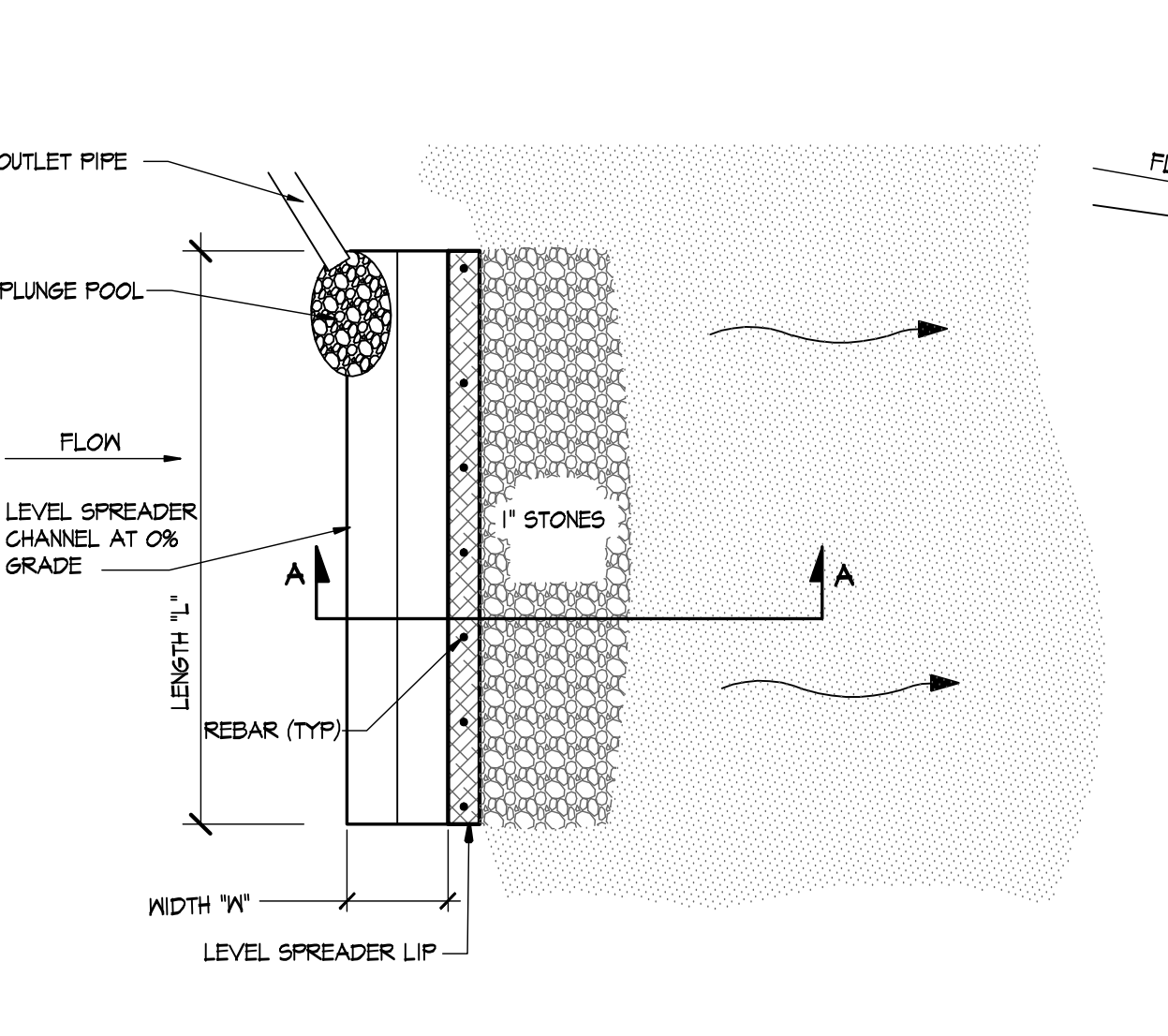
11 INLET PROTECTION DETAIL
C-310 N.T.S.



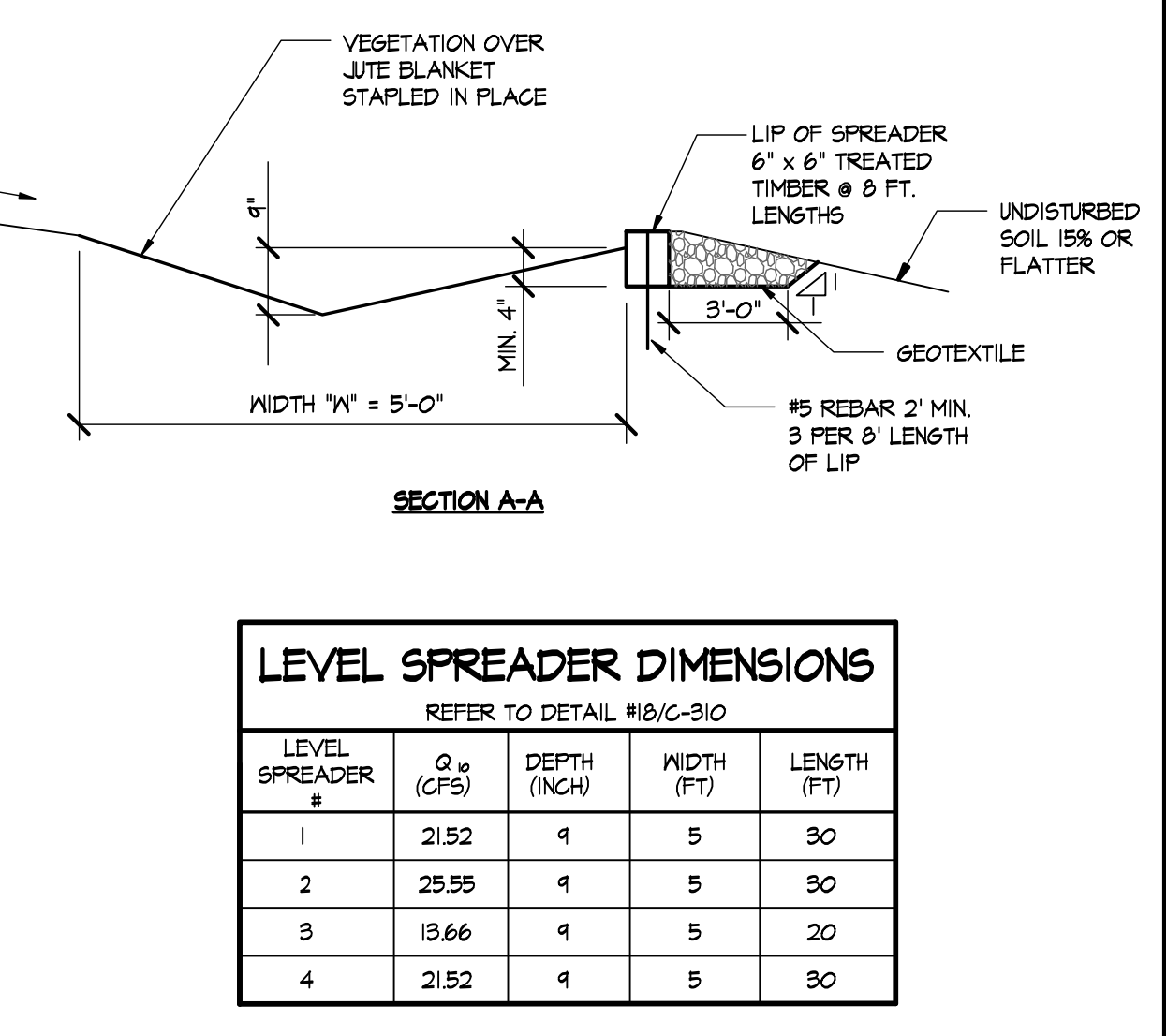
12 STONE OUTLET SEDIMENT TRAP DTL.
C-310 N.T.S.



13 EARTH DIKE DETAILS
C-310 N.T.S.



14 LEVEL SPREADER DETAILS
C-310 N.T.S.



15 LEVEL SPREADER DIMENSIONS
C-310 N.T.S.

PUTNAM ENGINEERING, PLLC
ENGINEERS - ARCHITECTS

4 OLD ROUTE 6, BREWSTER, NEW YORK 10509
(845) 274-6789 FAX (845) 274-6764
● PUTNAM ENGINEERS PLLC 2018

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NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	04 NOV 18	REV. PER BI, TE, TP COMMENTS			
2	02 OCT 18	REV. PER TE COMMENTS			
3	11 MAY 20	REV. PER TE COMMENTS			

PROJECT: PROPOSED SUBDIVISION PLAN PREPARED FOR:

OLD FORGE ESTATES

BALDWIN PLACE ROAD
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP 75.15-1-14

DATE: 12 APR 18

PROJECT MANAGER: PML

DRAWN BY: BJK

CHECKED BY: PML

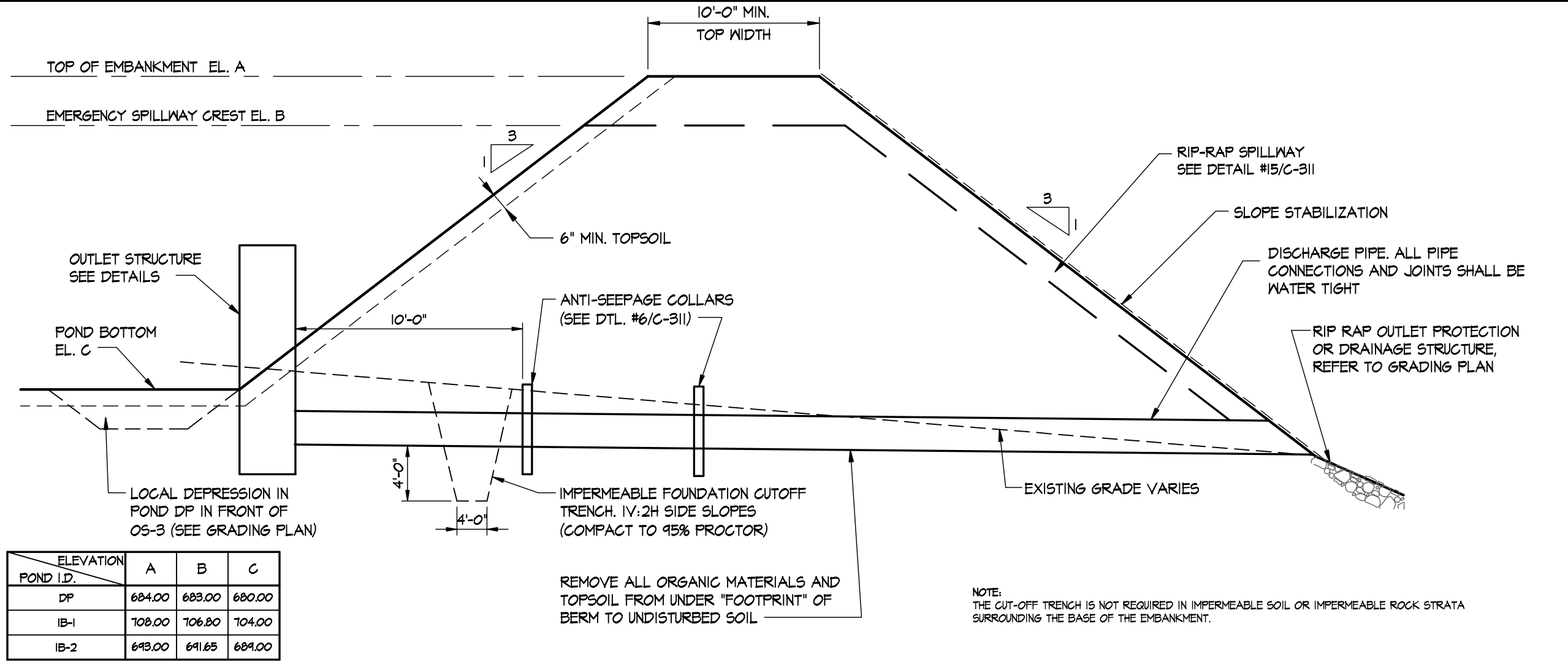
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DRAWING: DETAILS

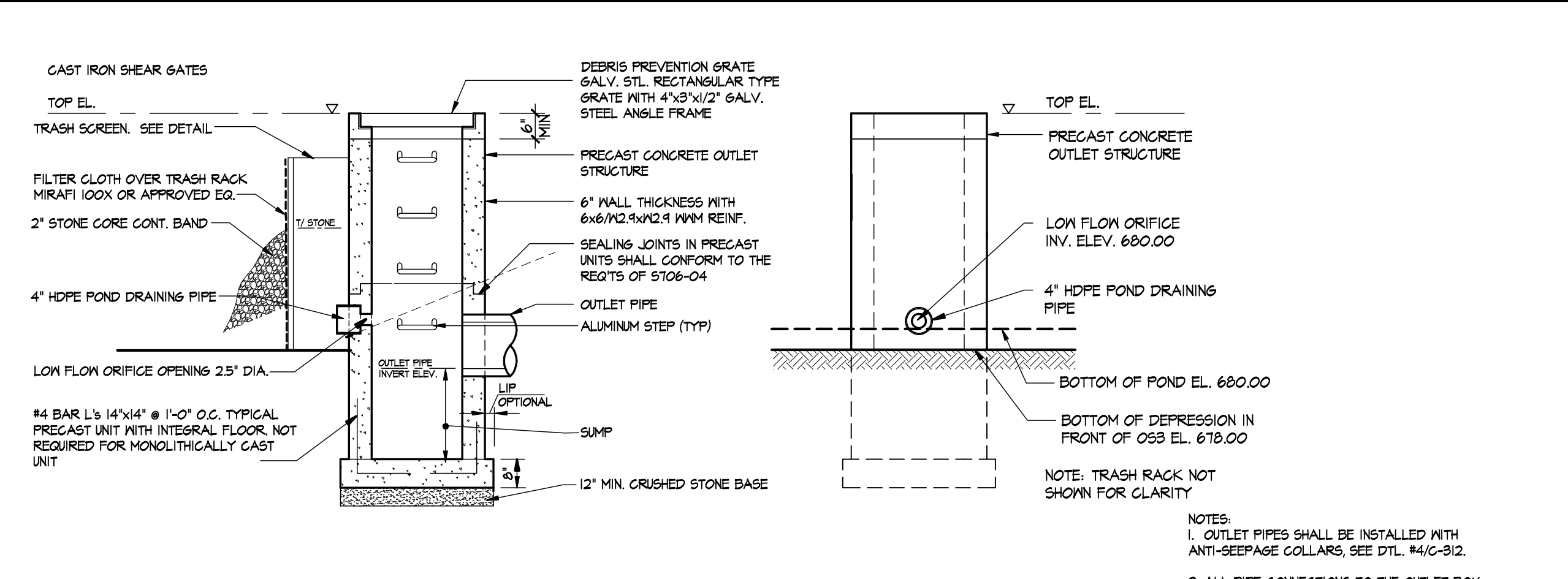
PROJECT NUMBER: 8286

DRAWING NUMBER: C-310

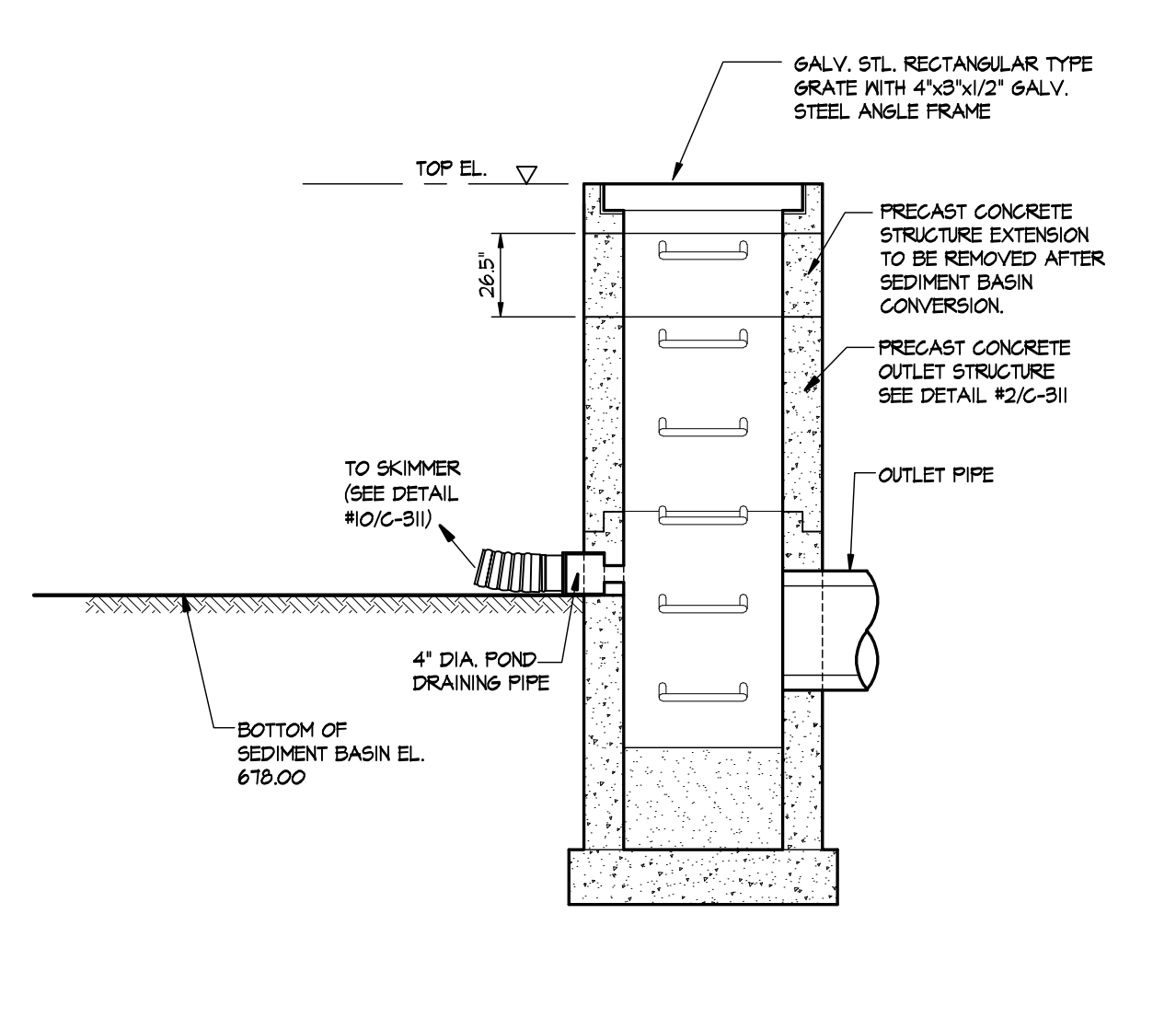
SHEET 25 OF 34



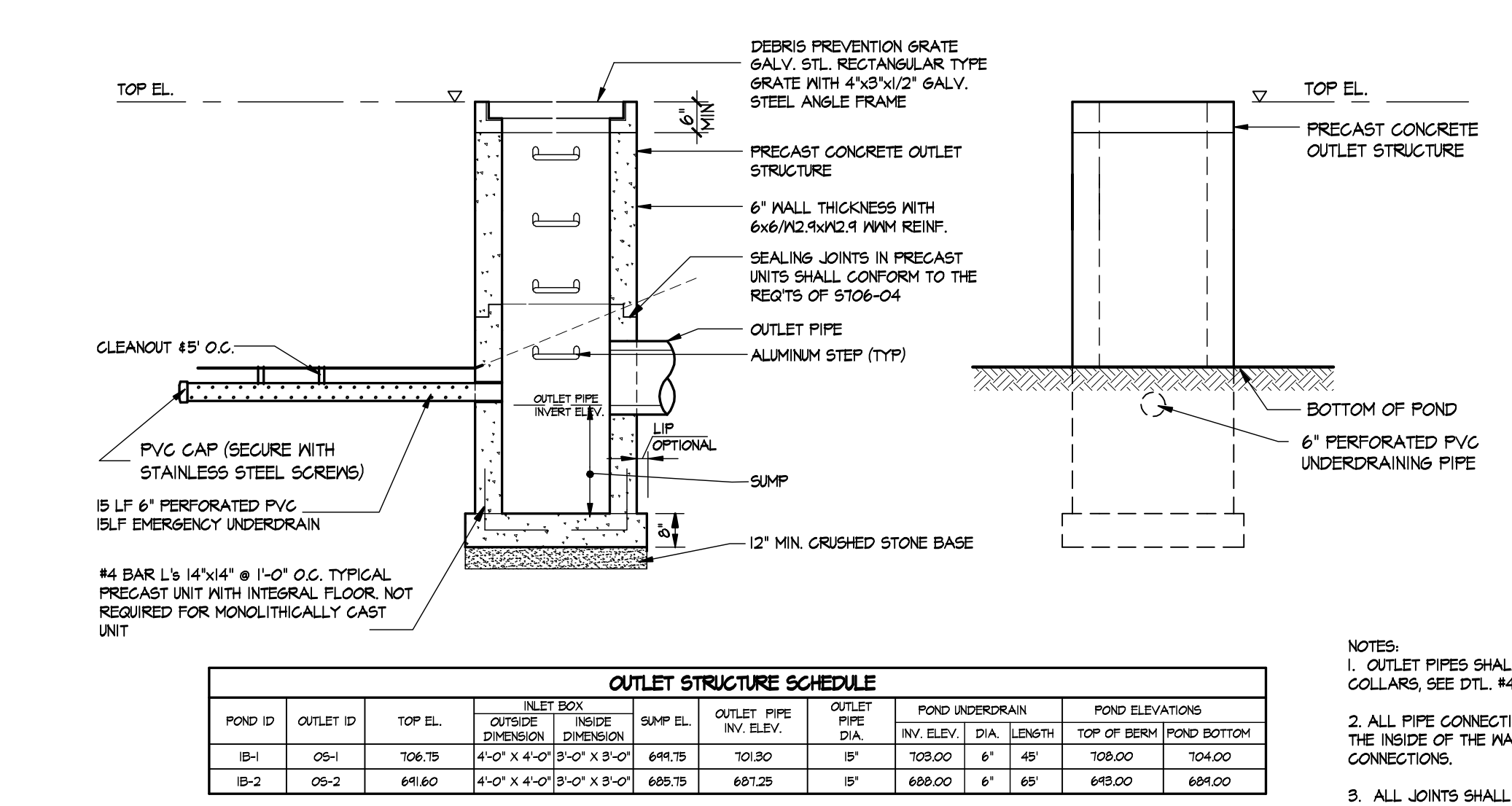
1 TYPICAL STORMWATER POND BERM SECTION
C-311 N.T.S.



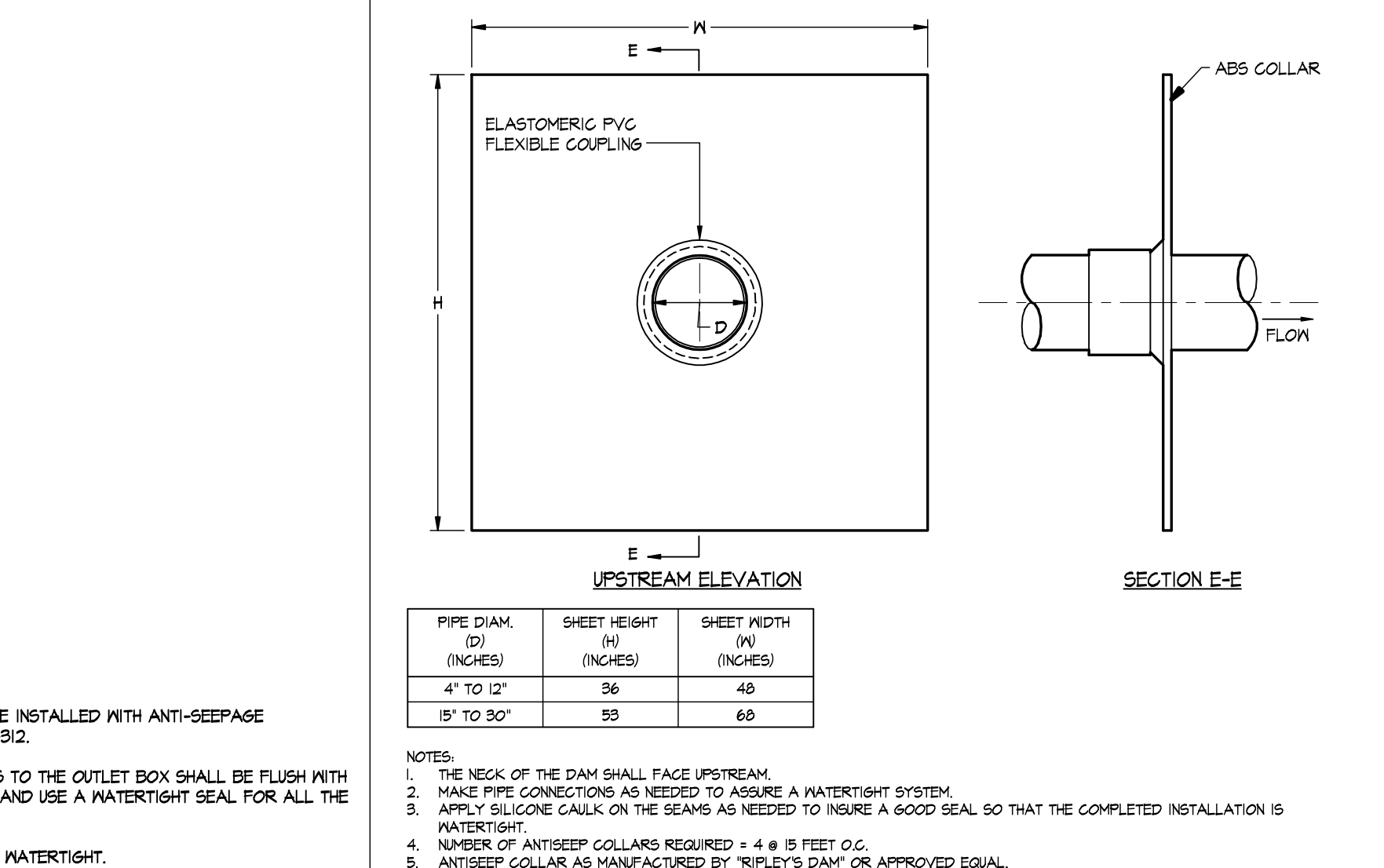
2 PERMANENT OUTLET STRUCTURE OS3 DETAILS
C-311 N.T.S.



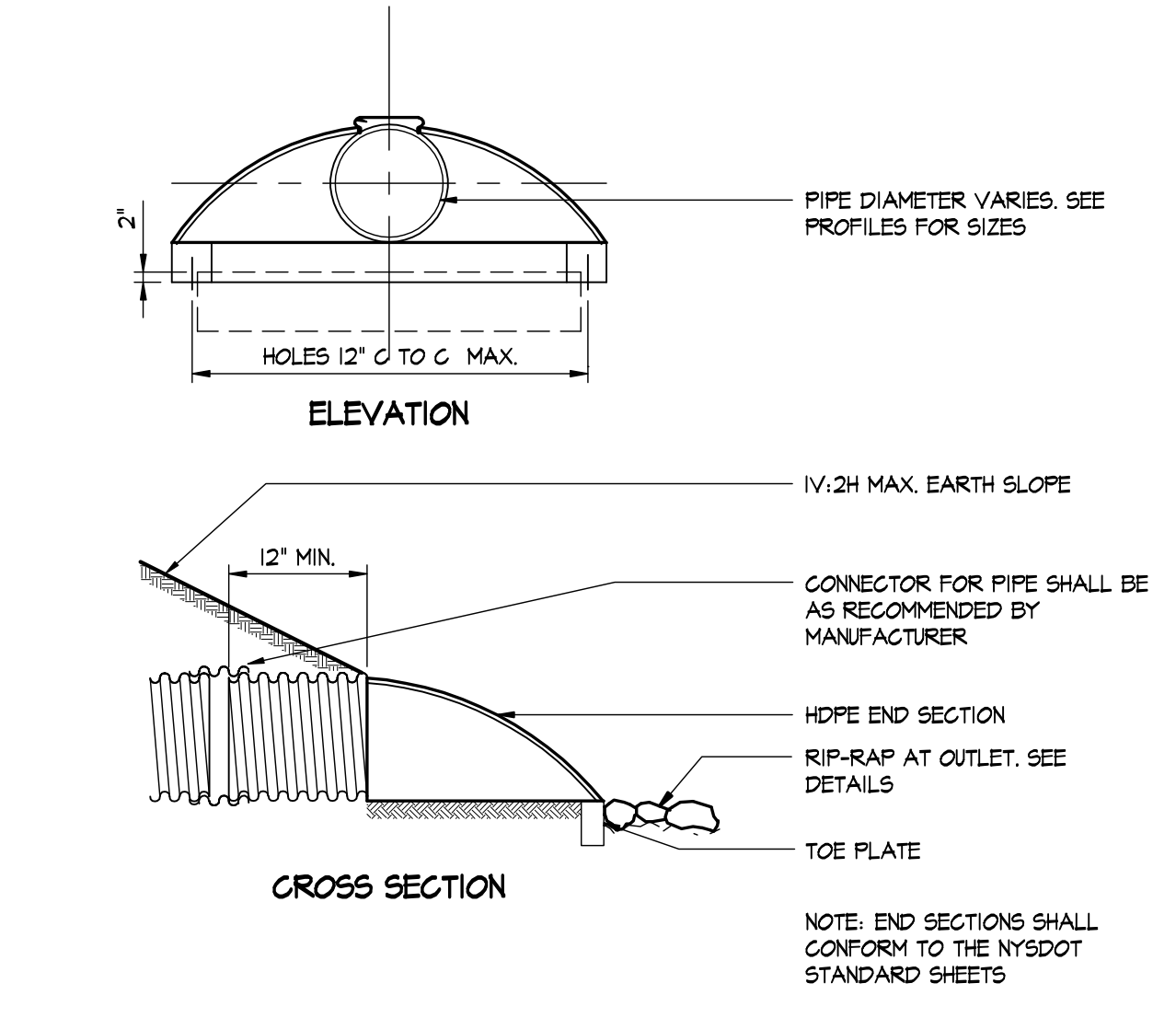
5 TEMPORARY OUTLET STRUCTURE DTL.
C-311 N.T.S.



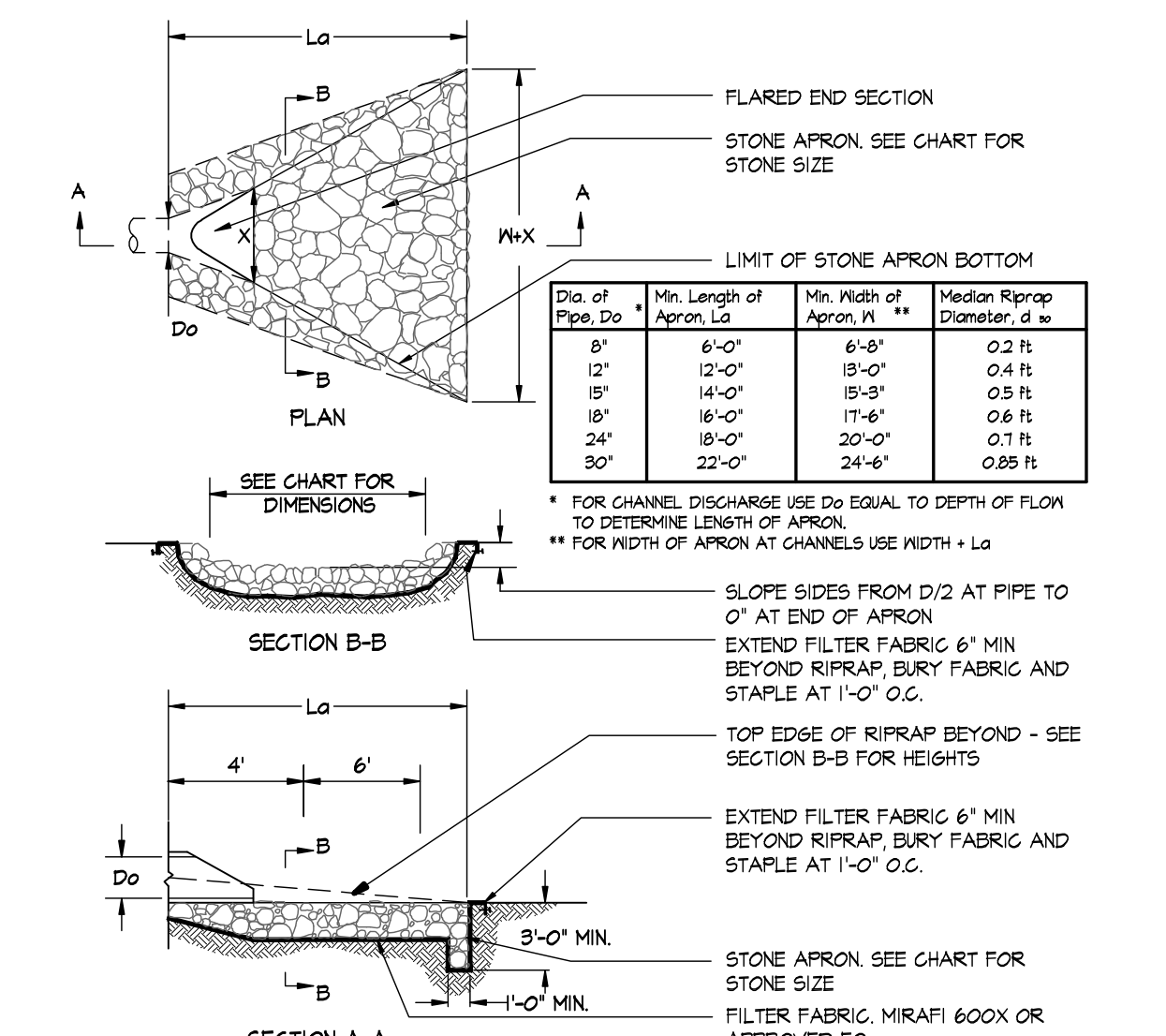
3 PERMANENT OUTLET STRUCTURE OS1 & OS2 DETAILS
C-312 N.T.S.



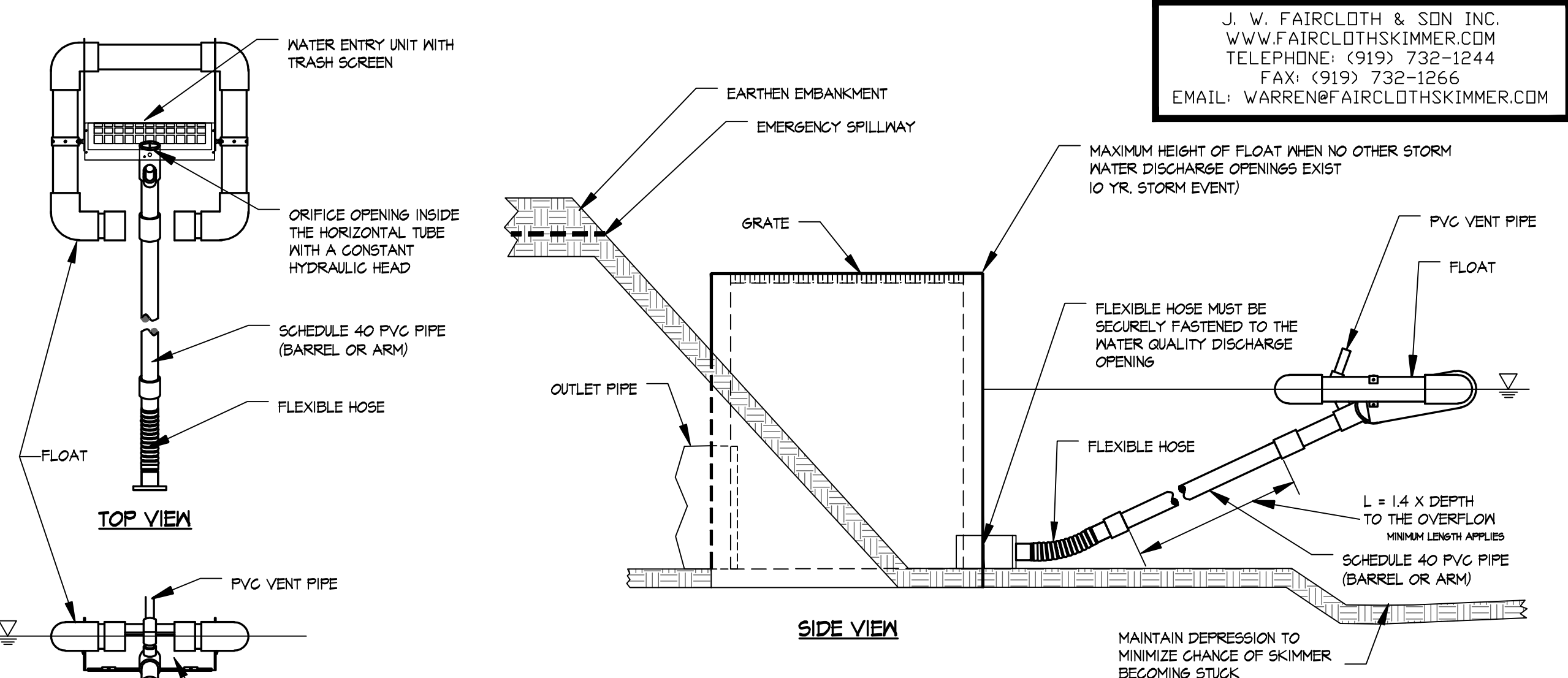
7 ABS ANTISEEP COLLAR for 4"-24" DIA. PIPE
C-311 N.T.S.



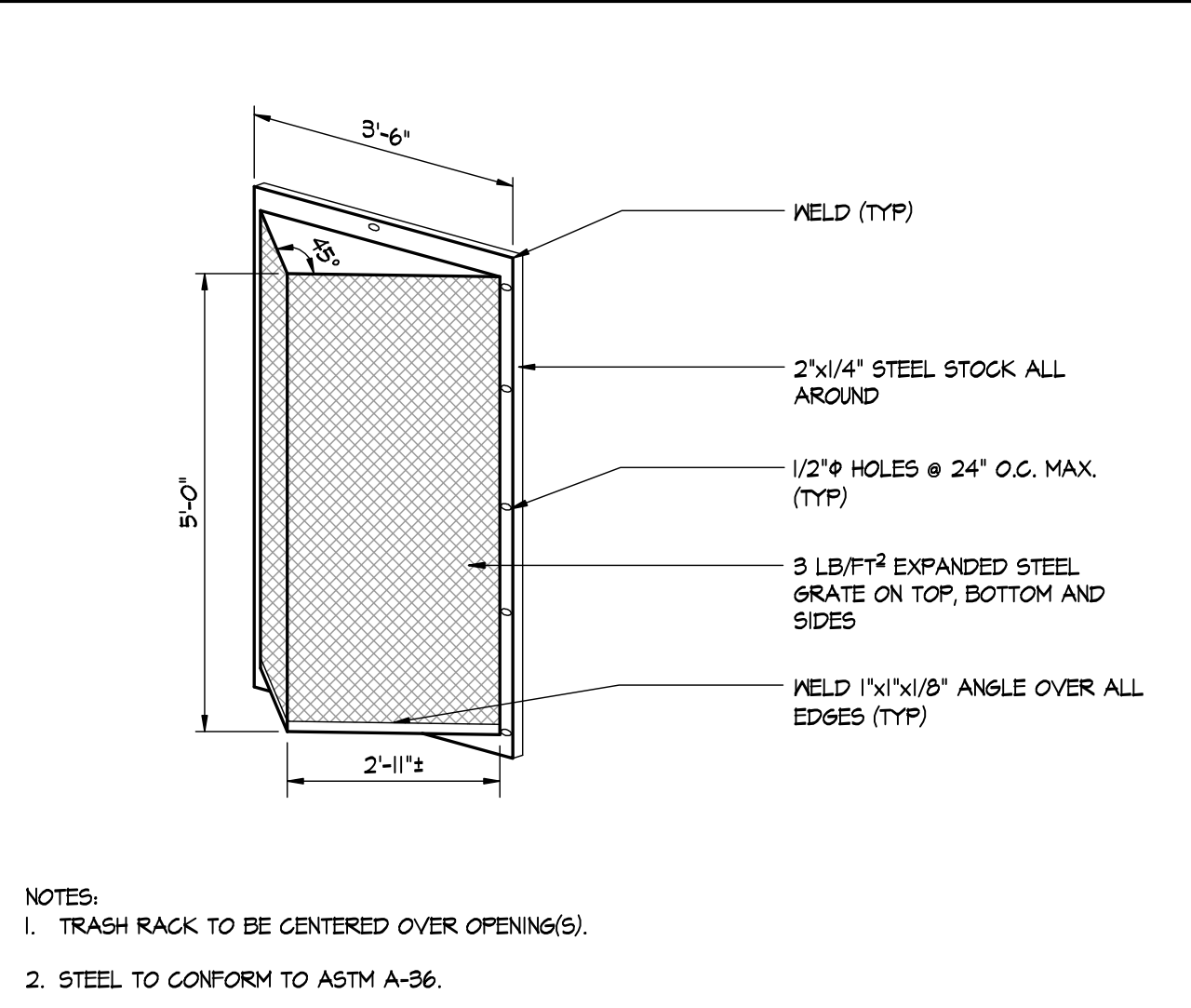
10 END SECTION DETAILS
C-311 N.T.S.



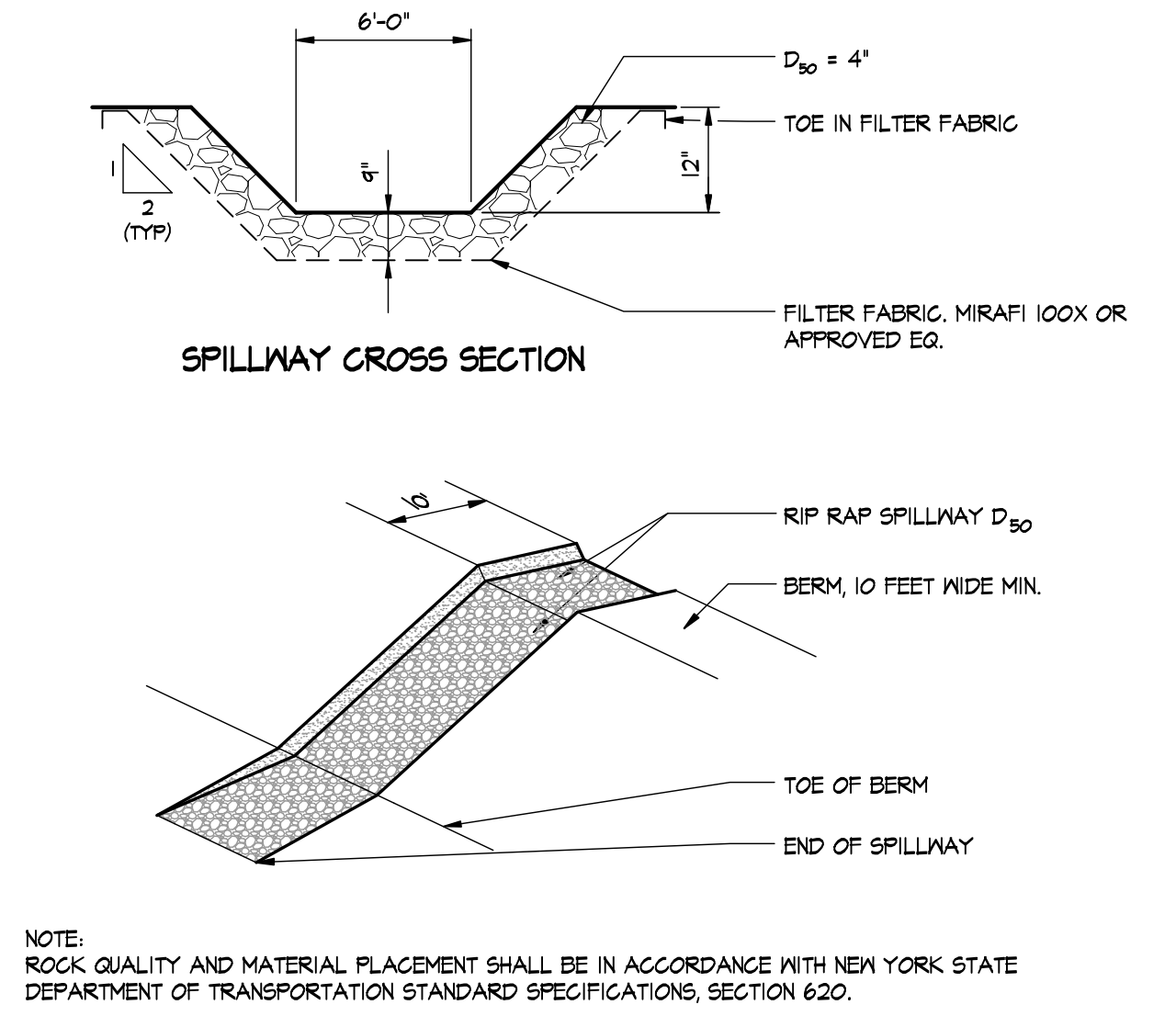
11 RIP-RAP OUTLET PROTECTION DTLs.
C-311 N.T.S.



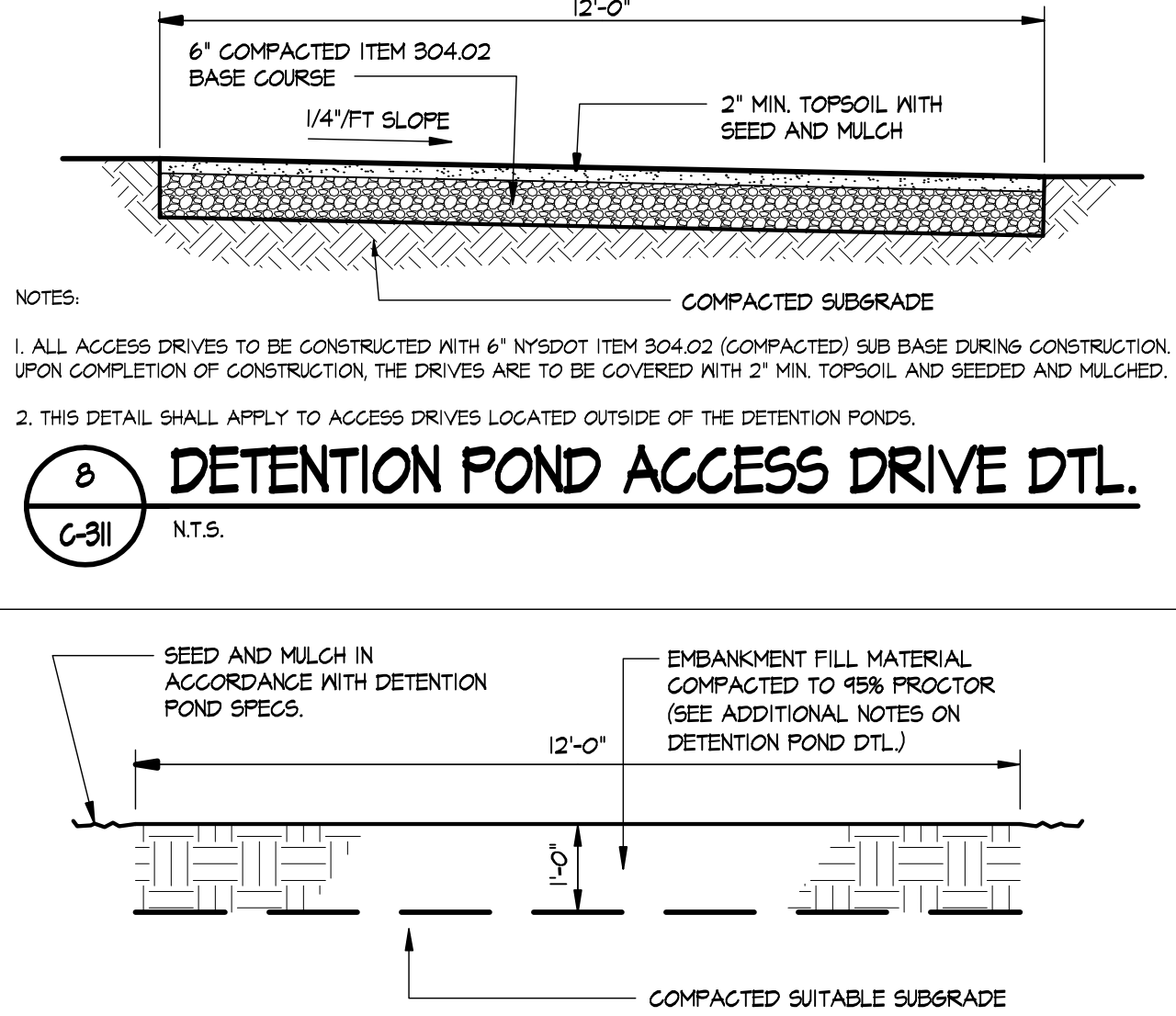
12 FAIRCLOTH SKIMMER DISCHARGE SYSTEM DETAIL
C-311 N.T.S.



3 PERMANENT TRASH RACK PROTECTION DTL.
C-311 N.T.S.



4 RIP-RAP SPILLWAY DETAILS
C-311 N.T.S.



8 DETENTION POND ACCESS DRIVE DTL.
C-311 N.T.S.

9 DETENTION POND MAINTENANCE ACCESS DETAIL
C-311 N.T.S.

POTNAM ENGINEERING, PLLC
ENGINEERS - ARCHITECTS

4 OLD ROUTE 6, BREWSTER, NEW YORK 10504
(845) 274-6789 FAX (845) 274-6769
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REVISIONS		
NO.	DATE	DESCRIPTION

PROJECT: PROPOSED SUBDIVISION PLAN PREPARED FOR:
OLD FORGE ESTATES
BALDWIN PLACE ROAD
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP 75.15-1-14

DATE: 12 APR 18
PROJECT MANAGER: PML
DRAWN BY: BJK
CHECKED BY: PML
SCALE: AS NOTED

DRAWING: DETAILS
PROJECT NUMBER: 8286
DRAWING NUMBER: C-311
SHEET 25 OF 31

CONSTRUCTION SPECIFICATIONS:

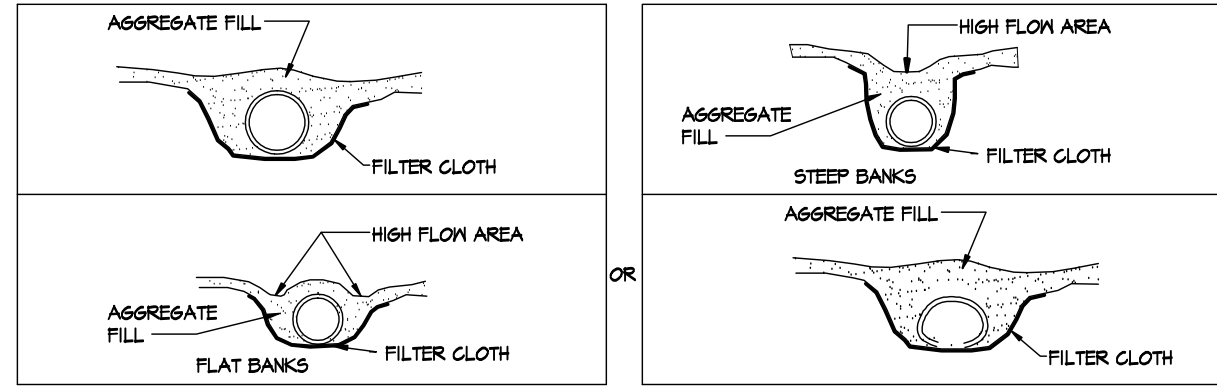
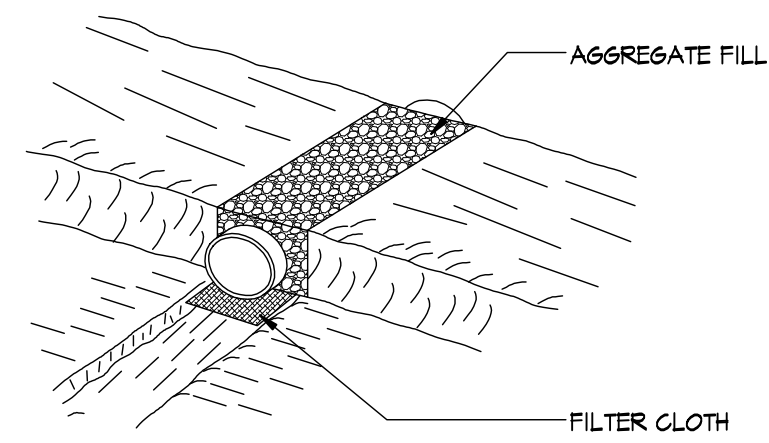
- CULVERT SIZE AS SHOWN ON EROSION CONTROL PLAN. MINIMUM PIPE SIZE SHALL BE 12 INCH.
- THE CULVERT SHALL EXTEND A MINIMUM OF 1 FOOT BEYOND THE UPSTREAM AND DOWNSTREAM TOE OF THE AGGREGATE PLACED AROUND THE CULVERT. IN NO CASE SHALL THE CULVERT EXCEED 40 FEET IN LENGTH.
- FILTER CLOTH SHALL BE PLACED ON THE STREAMBED AND STREAMBANKS PRIOR TO PLACEMENT OF THE CULVERT AND AGGREGATE. THE FILTER CLOTH SHALL COVER THE STREAMBED AND EXTEND A MINIMUM 6 INCHES AND A MAXIMUM OF 1 FOOT BEYOND THE END OF THE CULVERT AND BEDDING MATERIAL.
- THE INVERT ELEVATION OF THE CULVERT SHALL BE INSTALLED ON THE NATURAL STREAMBED GRADE.
- THE CULVERT SHALL BE COVERED WITH A MINIMUM OF 1 FOOT OF AGGREGATE. AT THE MINIMUM THE BEDDING AND FILL MATERIAL SHALL BE NYSDOT COARSE AGGREGATE DESIGNATION NO. 4 (3/4" TO 4") ALSO REFERRED TO AS AASHTO DESIGNATION NO. 1.
- ALL AREAS DISTURBED DURING THE CULVERT INSTALLATION SHALL BE STABILIZED WITHIN 7 DAYS OF THE DISTURBANCE.

MAINTENANCE REQUIREMENTS:

- PERIODIC INSPECTION SHALL BE PERFORMED TO ENSURE THAT THE CULVERTS, STREAMBED AND STREAMBANKS ARE NOT DAMAGED, AND THAT THE SEDIMENT IS NOT ENTERING THE STREAMBED.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED, IN A TIMELY MANNER TO ENSURE THAT STRUCTURES ARE IN COMPLIANCE WITH THIS STANDARD AND SPECIFICATION. THIS SHALL INCLUDE REMOVAL AND DISPOSAL OF ANY TRAPPED SEDIMENT OR DEBRIS. SEDIMENT SHALL BE DISPOSED OF AND STABILIZED OUTSIDE THE WATERWAY FLOOD PLAN.

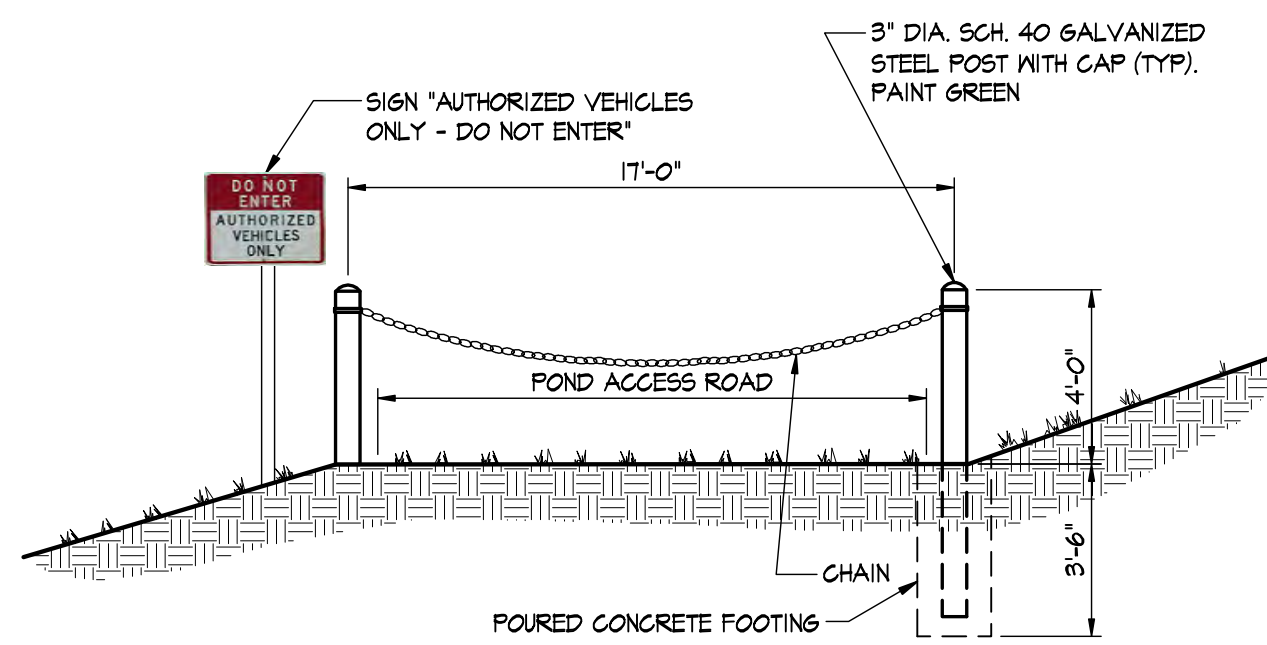
CULVERT REMOVAL AND CLEANUP:

- WHEN THE CROSSING HAS SERVED ITS PURPOSE, ALL CULVERTS, BEDDING, AND FILTER CLOTH MATERIALS SHALL BE REMOVED WITHIN 14 CALENDAR DAYS. IN ALL CASES, THE CULVERT MATERIALS SHALL BE REMOVED WITHIN 1 YEAR OF INSTALLATION.
- FINAL CLEAN UP SHALL CONSIST OF REMOVAL OF THE CULVERT FROM THE WATERWAY, REMOVAL OF ALL CONSTRUCTION MATERIALS, RESTORATION OF ORIGINAL STREAM CHANNEL, CROSS SECTION AND PROTECTION OF THE STREAMBANKS FROM EROSION.
- REMOVAL OF THE CULVERT AND CLEANING UP OF THE AREA SHALL BE ACCOMPLISHED WITHOUT CONSTRUCTION EQUIPMENT WORKING IN THE WATERWAY CHANNEL.
- ALL AREAS DISTURBED DURING CULVERT REMOVAL SHALL BE STABILIZED WITHIN 14 CALENDAR DAYS OF THE DISTURBANCE IN ACCORDANCE WITH THE SLOPE STABILIZATION NOTES.



1 TEMPORARY ACCESS CULVERT DETAIL
C-312 N.T.S.

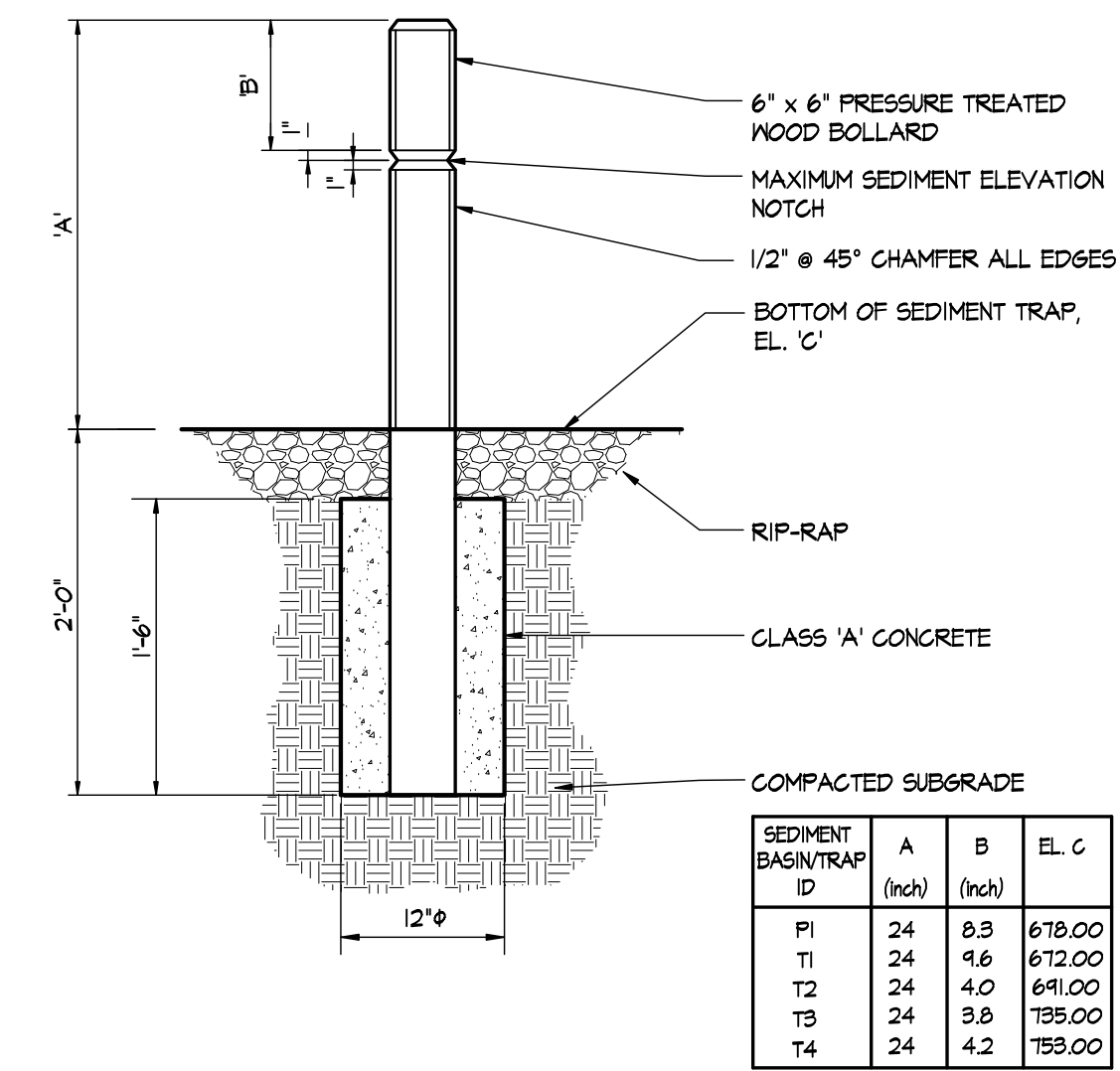
NOTE: CONTINUE TIE RODS TO MAIN OR AT LEAST 20 FEET ALONGS HYDRANT LATERAL



NOTES:

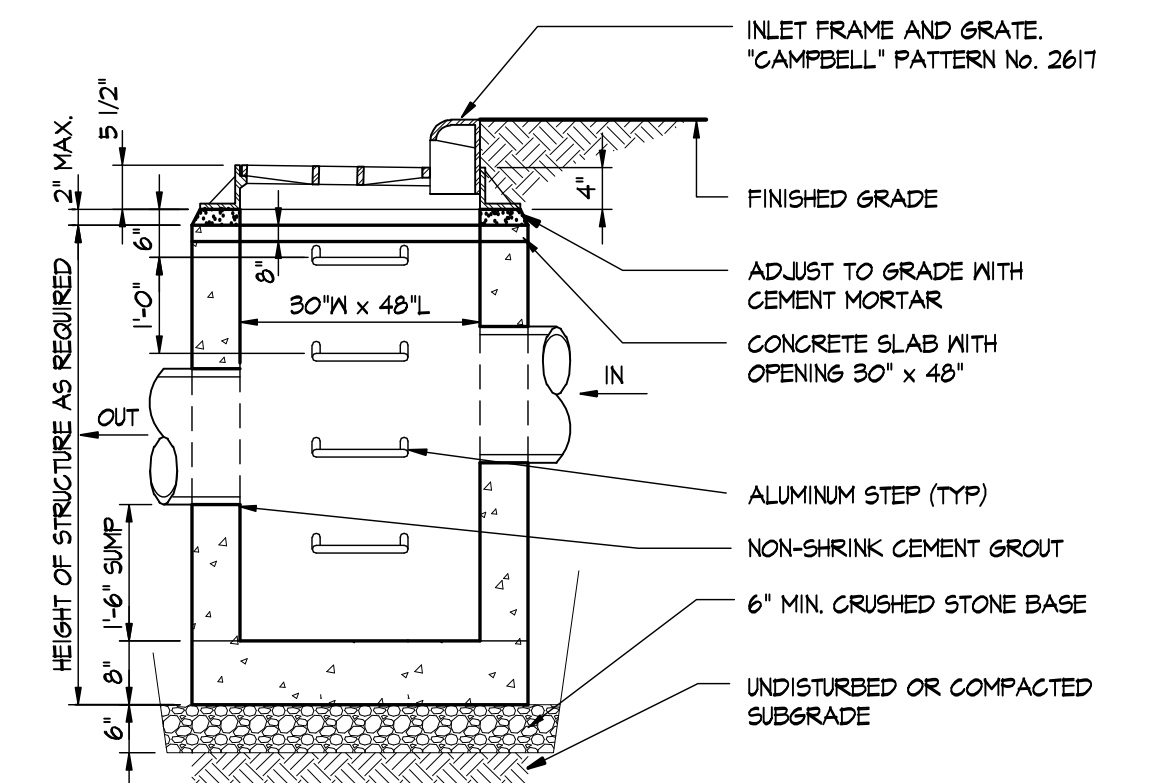
- CHAIN GATE SHALL BE SECURED TO THE 3" POST BY USE OF EYELET FASTENERS.
- A LOCK SHALL BE USED TO SECURE THE CHAIN GATE. INDIVIDUAL KEYS ARE TO BE DISTRIBUTED TO THE APPROPRIATE MUNICIPAL EMERGENCY DEPARTMENTS AS WELL AS THE HOMEOWNER'S ASSOCIATION AND THE LANDSCAPER.

2 POND ACCESS ROAD ENTRANCE DTL.
C-312 N.T.S.



SEDIMENT BASIN/TRAP ID	A (inch)	B (inch)	EL. C
F1	24	8.9	678.00
T1	24	4.6	672.00
T2	24	4.0	641.00
T3	24	3.8	735.00
T4	24	4.2	735.00

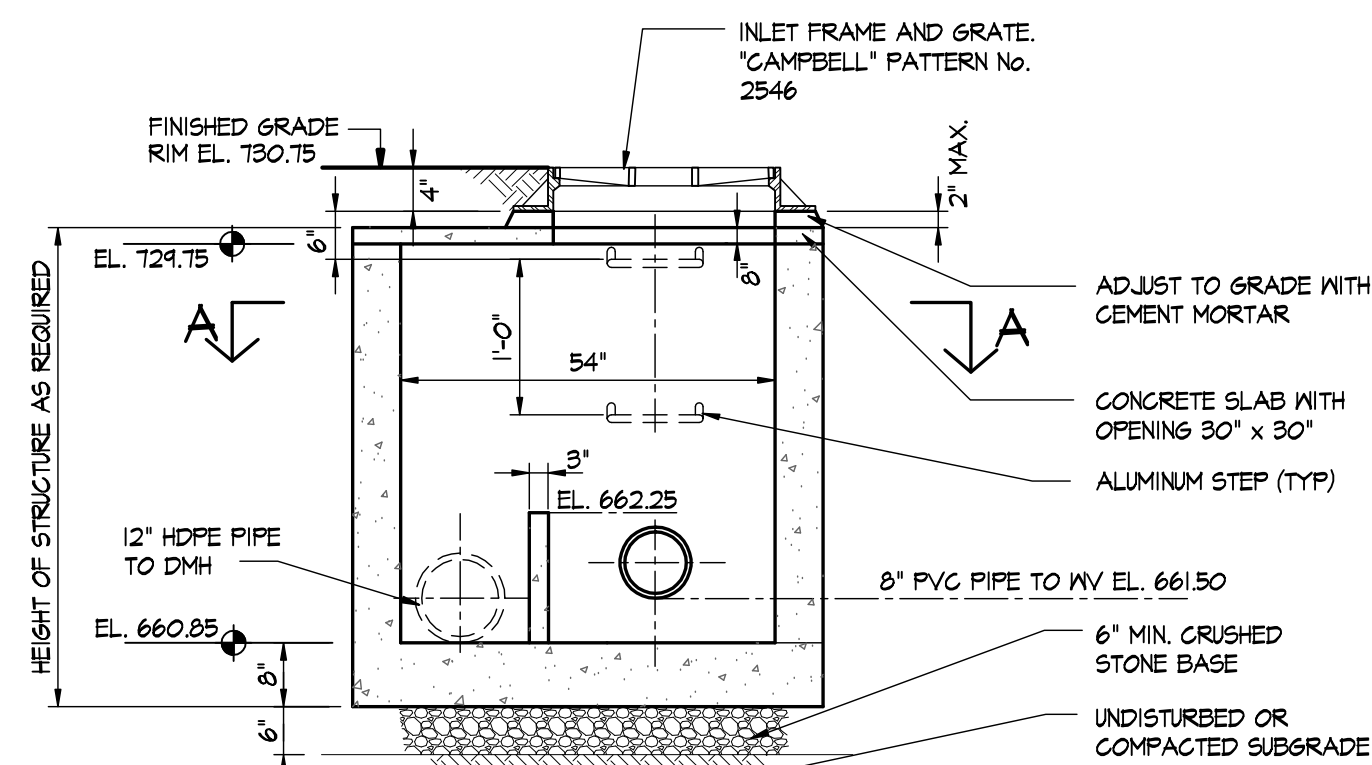
3 SEDIMENT REMOVAL MARKER DETAIL
C-312 N.T.S.



CATCH BASIN NOTES:

- WALL THICKNESS: 6" POURED CONCRETE OR PRECAST CONC. SECTIONS, CLASS A CONCRETE.
- ALL CATCH BASINS SHALL CONFORM AND BE INSTALLED IN ACCORDANCE WITH THE NYSDOT STANDARD SHEETS.
- POURED OR PRECAST WALLS SHALL BE REINFORCED WITH 6x6/16x16 W/M. BOTTOM SHALL BE SIMILAR.
- CATCH BASINS SHALL BE DESIGNED FOR AASHTO H-20 LOADING.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION.

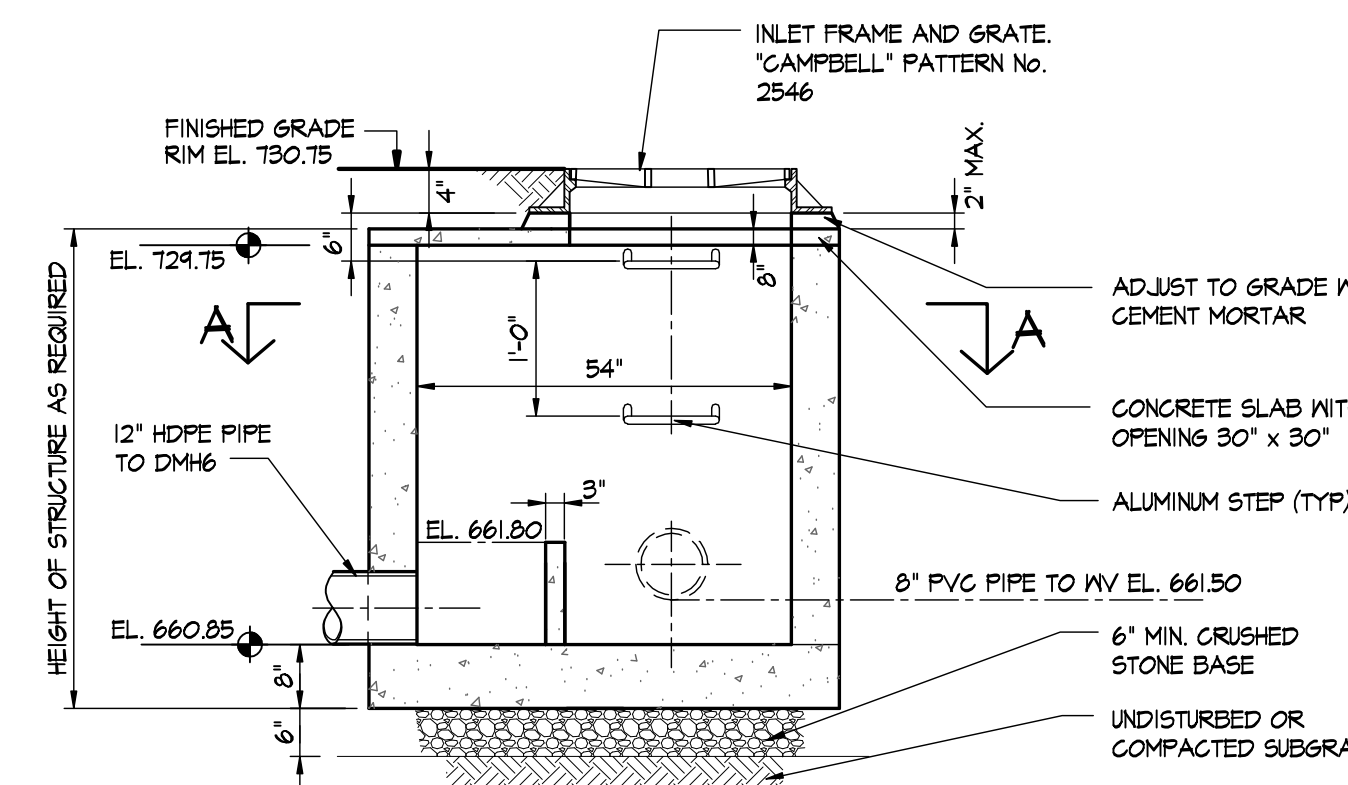
4 CATCH BASIN DETAIL
C-312 N.T.S.



NOTES:

- WALL THICKNESS: 6" POURED CONCRETE OR PRECAST CONC. SECTIONS, CLASS A CONCRETE.
- THICKNESS OF FLOW SPLITTER INSERT- 3"
- POURED OR PRECAST WALLS SHALL BE REINFORCED WITH 6x6/16x16 W/M. BOTTOM SHALL BE SIMILAR.
- CATCH BASINS SHALL BE DESIGNED FOR AASHTO H-20 LOADING.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION.

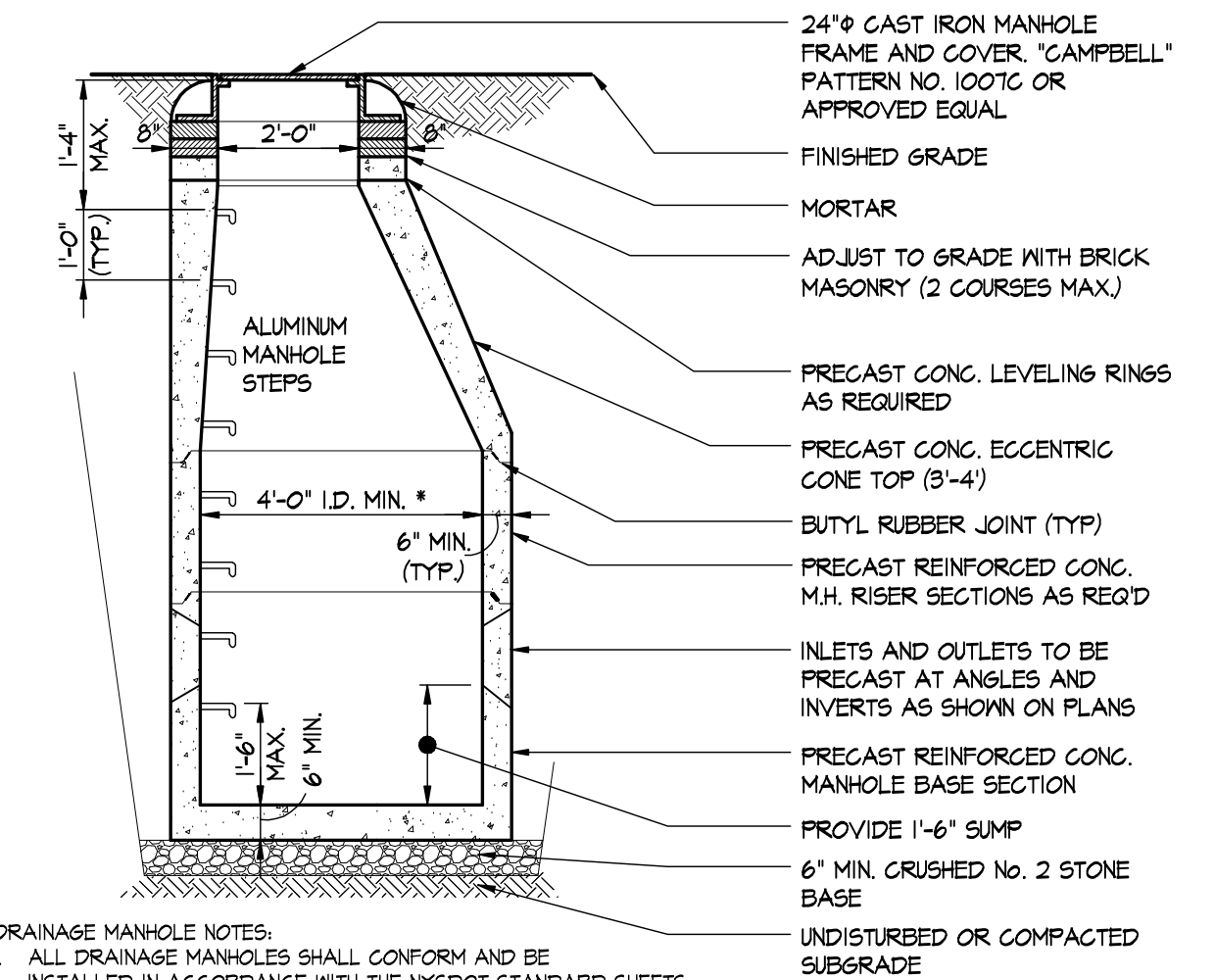
5 FLOW SPLITTER FS DETAIL
C-312 N.T.S.



NOTES:

- WALL THICKNESS: 6" POURED CONCRETE OR PRECAST CONC. SECTIONS, CLASS A CONCRETE.
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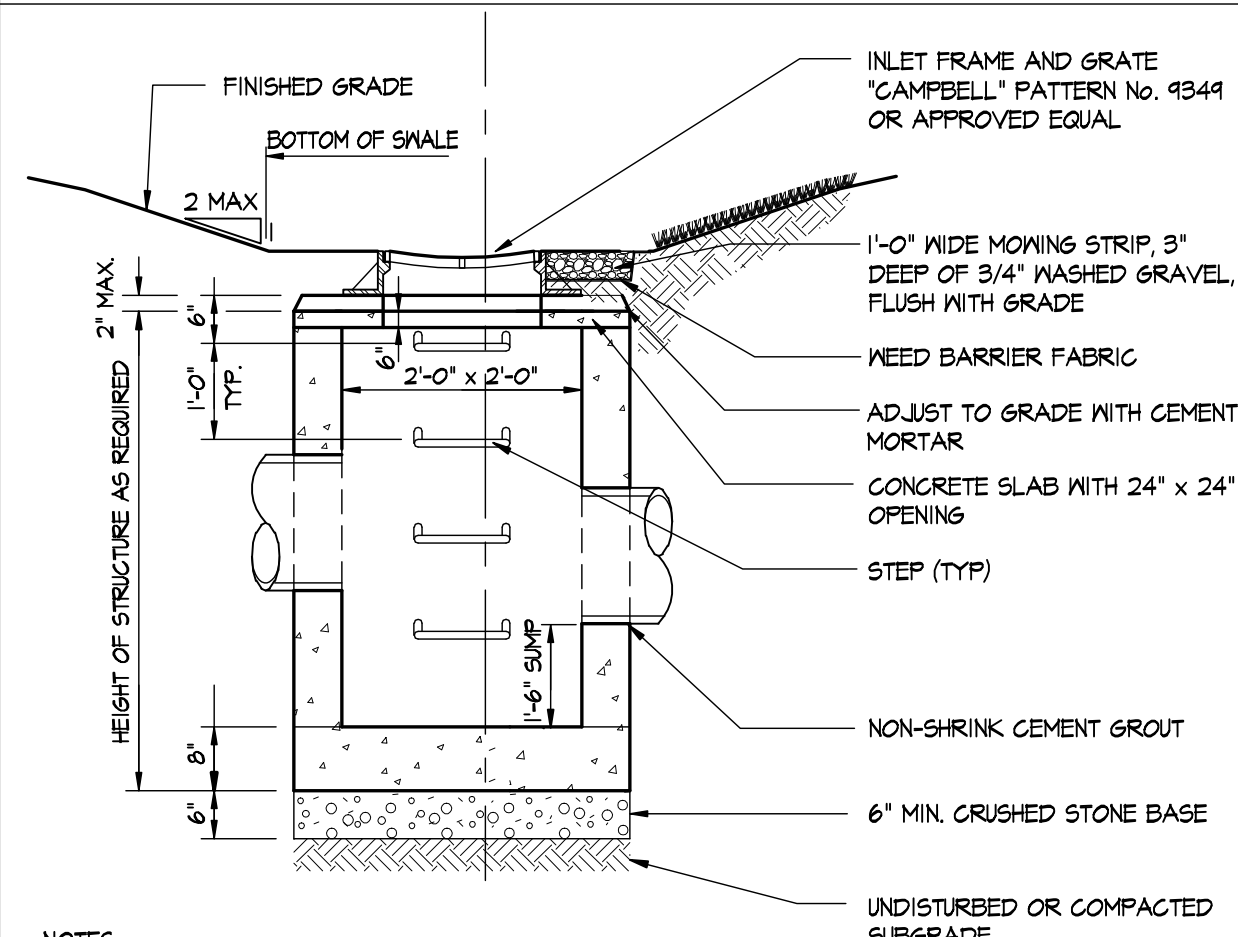
6 FLOW SPLITTER FS DETAIL
C-312 N.T.S.



DRAINAGE MANHOLE NOTES:

- ALL DRAINAGE MANHOLES SHALL CONFORM AND BE INSTALLED IN ACCORDANCE WITH THE NYSDOT STANDARD SHEETS.
- DRAINAGE MANHOLES SHALL BE DESIGNED FOR AASHTO H-20 LOADING.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION.

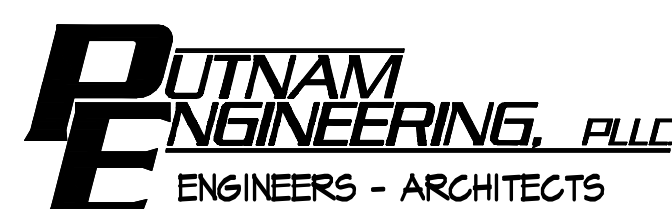
7 DRAINAGE MANHOLE DETAIL
C-312 N.T.S.



NOTES:

- WALL THICKNESS: 6" POURED CONCRETE OR PRECAST CONC. SECTIONS, CLASS A CONCRETE.
- ALL CATCH BASINS SHALL CONFORM WITH AND BE INSTALLED IN ACCORDANCE WITH THE NYSDOT STANDARD SHEETS.
- POURED OR PRECAST WALLS SHALL BE REINFORCED WITH 6x6/16x16 W/M. BOTTOM SHALL BE SIMILAR.

8 YARD DRAIN YD#1 & YD#2 DTL.
C-312 N.T.S.



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(845) 279-6789 FAX (845) 279-6761
● PUTNAM ENGINEERING PLLC 2018

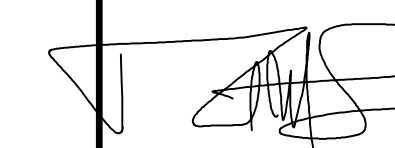
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REVISIONS		PROJECT			
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
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2	02 OCT 18	REV. PER TE COMMENTS			
3	11 MAY 20	REV. PER TE COMMENTS			

PROPOSED SUBDIVISION PLAN PREPARED FOR:

OLD FORGE ESTATES

BALDWIN PLACE ROAD
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP 15.15-1-14



DATE	12 APR 18
PROJECT MANAGER	PML
DRAWN BY	BJK
CHECKED BY	PML
SCALE	AS NOTED

DETAILS

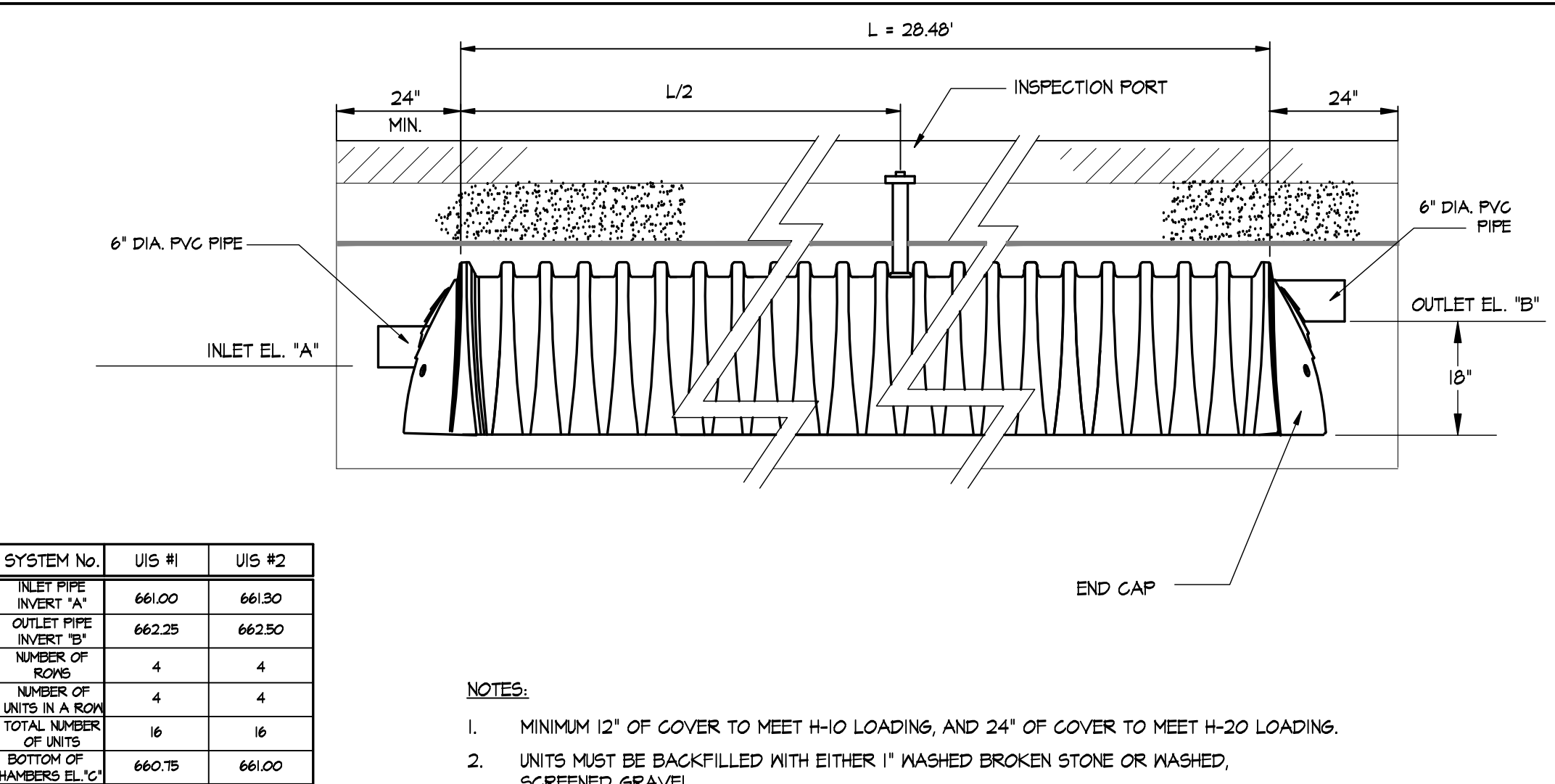
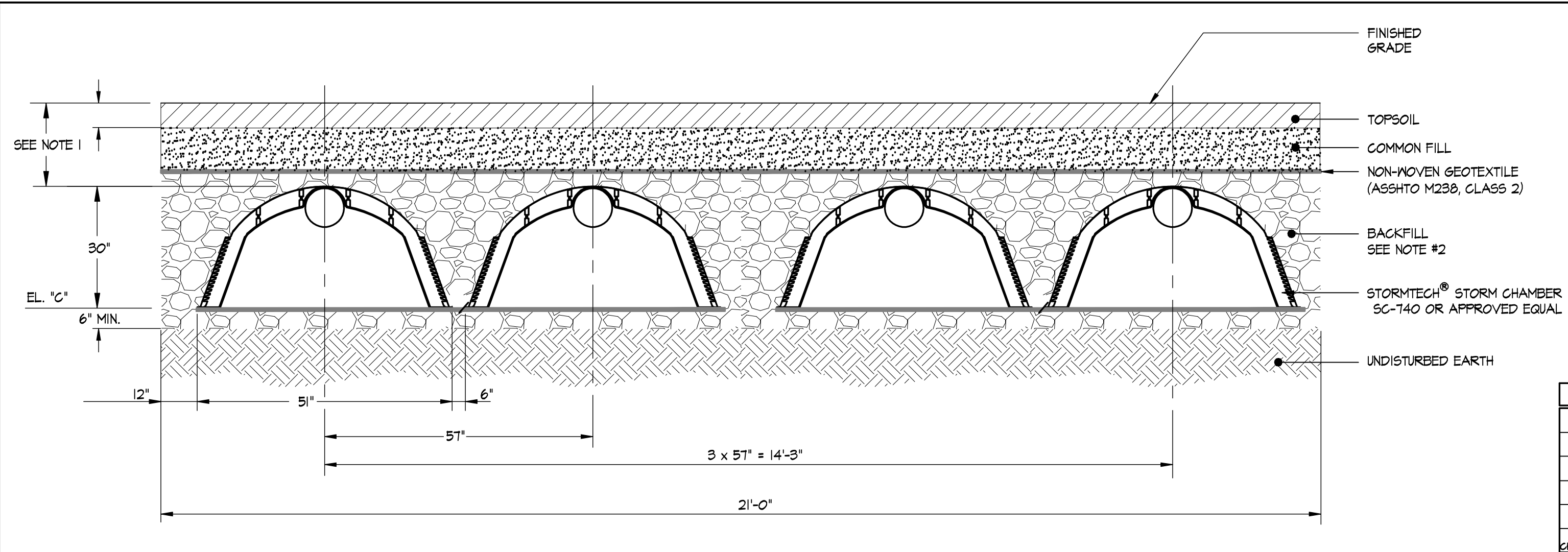
PROJECT NUMBER

8286

DRAWING NUMBER

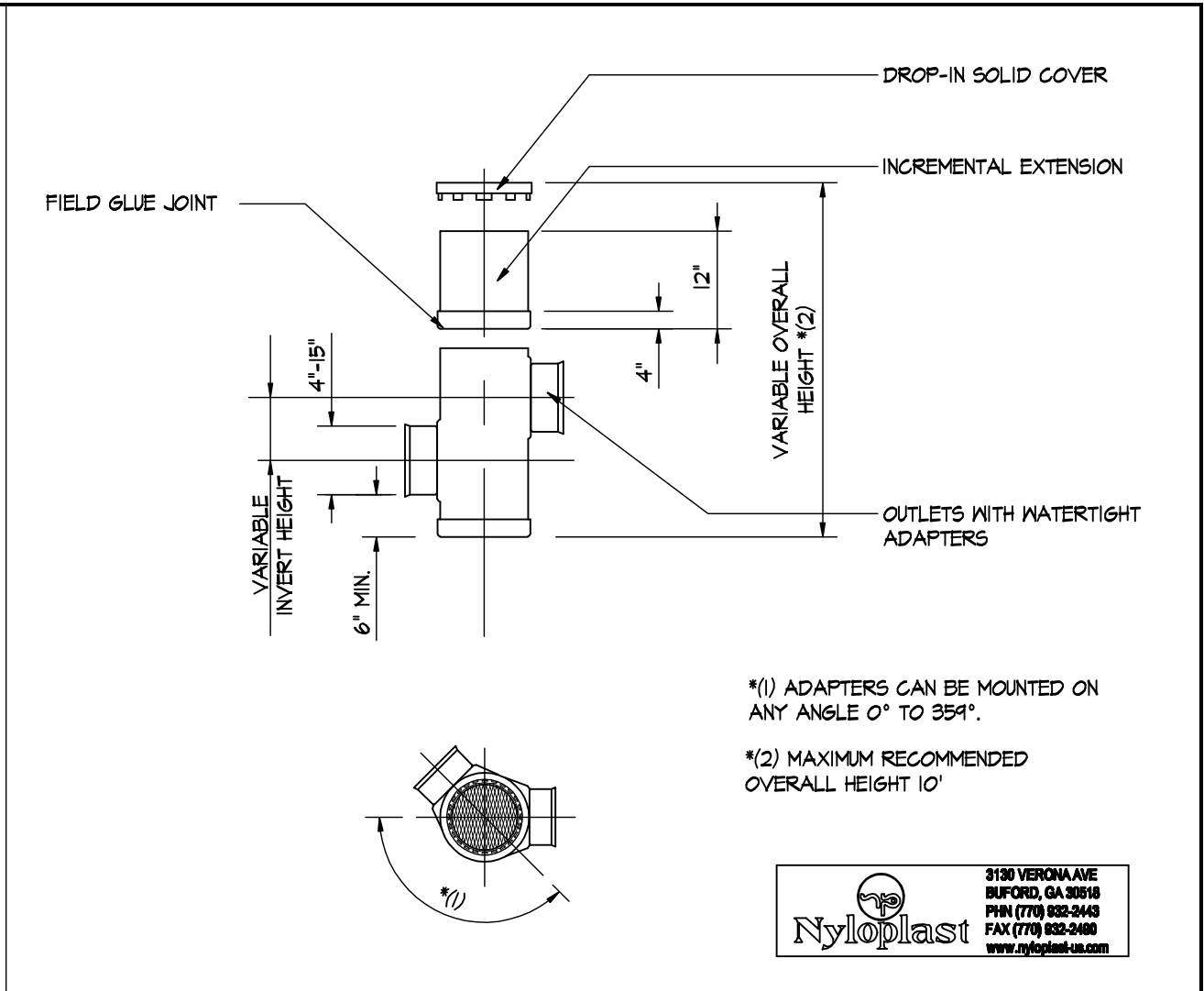
C-312

SHEET 21 OF 34

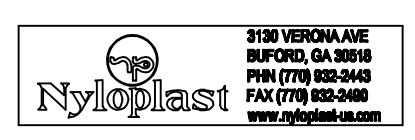


SYSTEM No.	UIS #1	UIS #2
INLET PIPE INVERT 'A'	661.00	661.30
OUTLET PIPE INVERT 'B'	662.25	662.50
NUMBER OF ROWS	4	4
NUMBER OF UNITS IN A ROW	4	4
TOTAL NUMBER OF UNITS	16	16
BOTTOM OF CHAMBERS EL. 'C'	660.75	661.00

- NOTES:
- MINIMUM 12" OF COVER TO MEET H-10 LOADINGS, AND 24" OF COVER TO MEET H-20 LOADINGS.
 - UNITS MUST BE BACKFILLED WITH EITHER 1" WASHED BROKEN STONE OR WASHED, SCREENED GRAVEL.

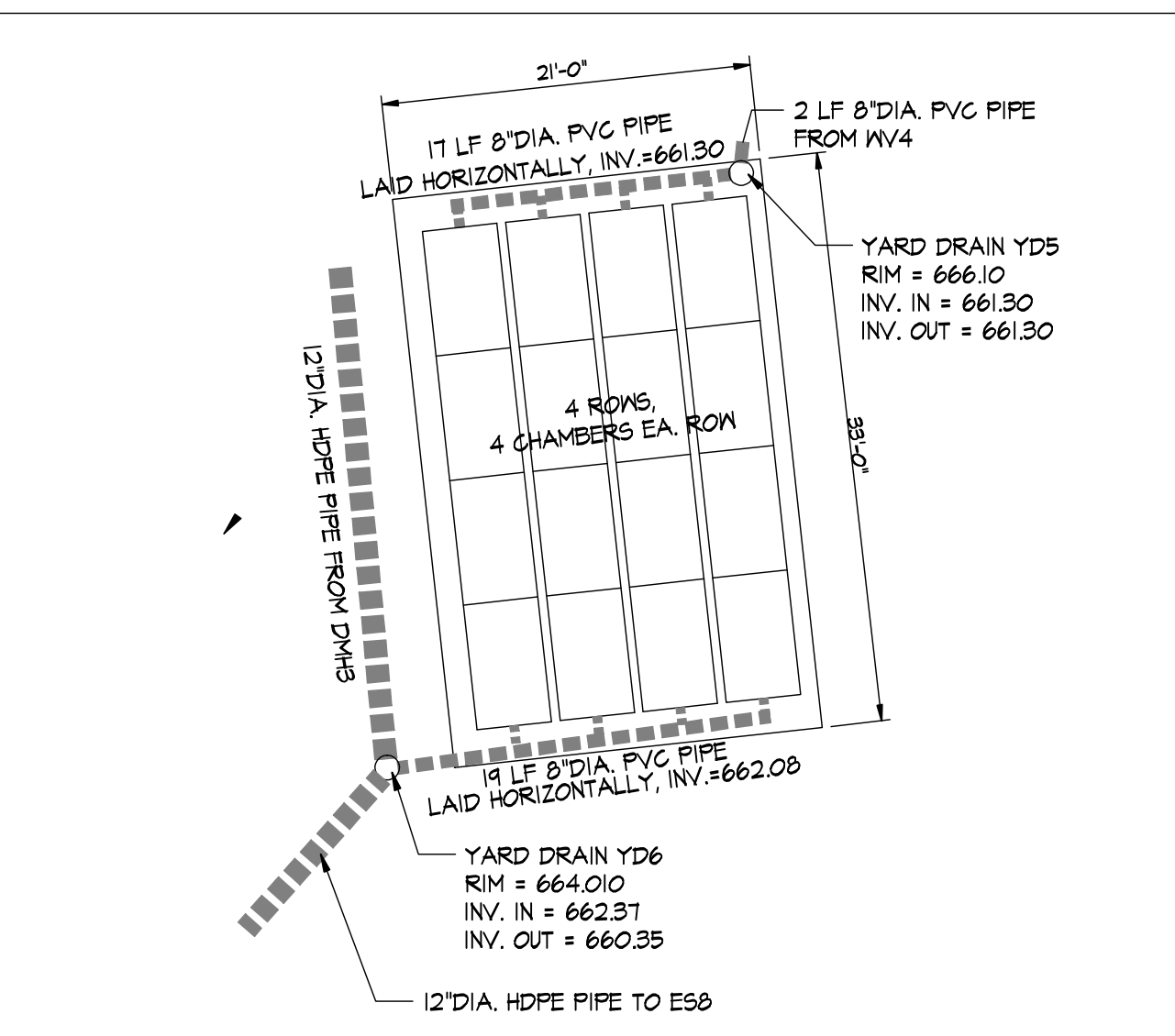
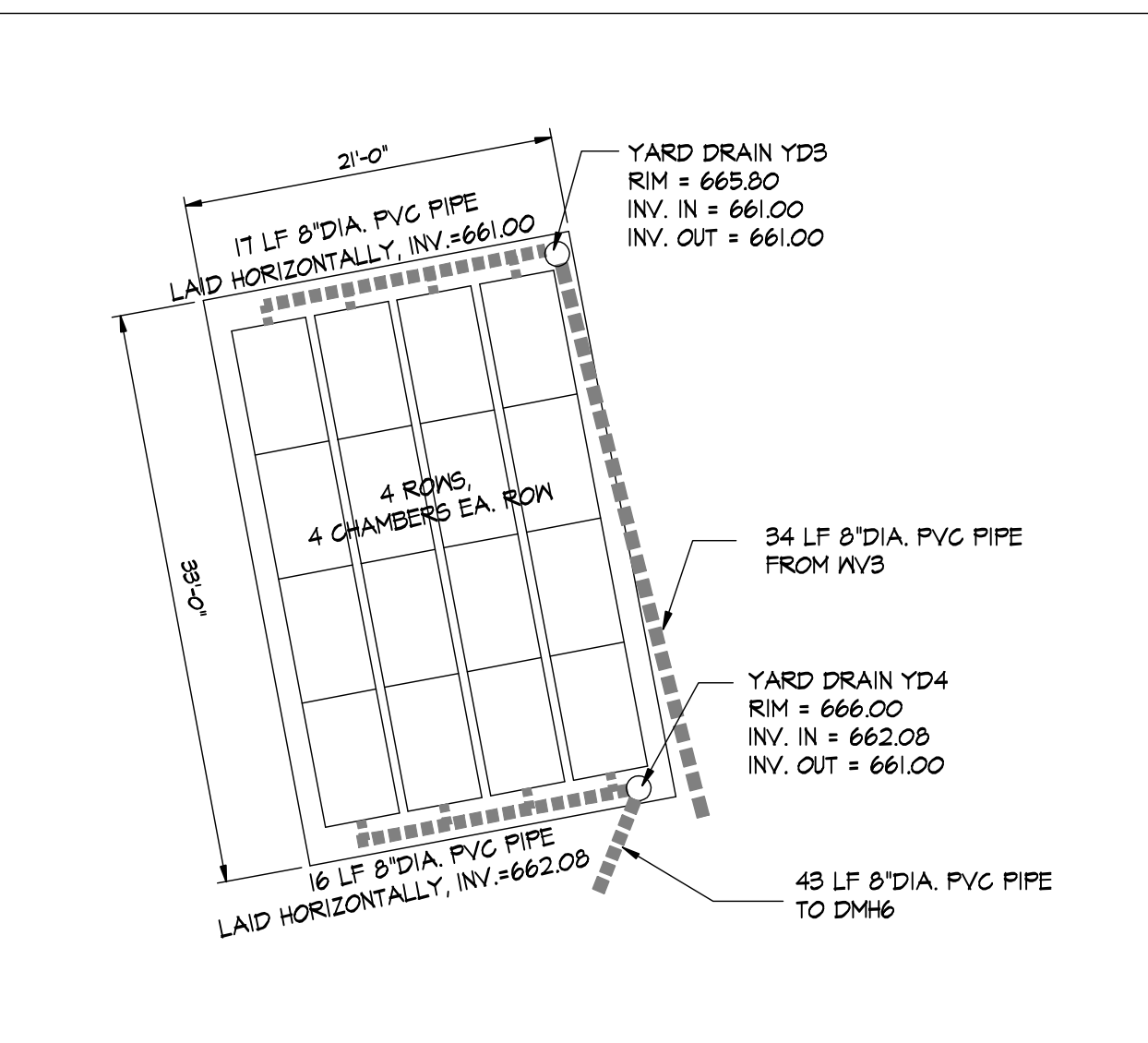


- (1) ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 354°.
 (2) MAXIMUM RECOMMENDED OVERALL HEIGHT 10'



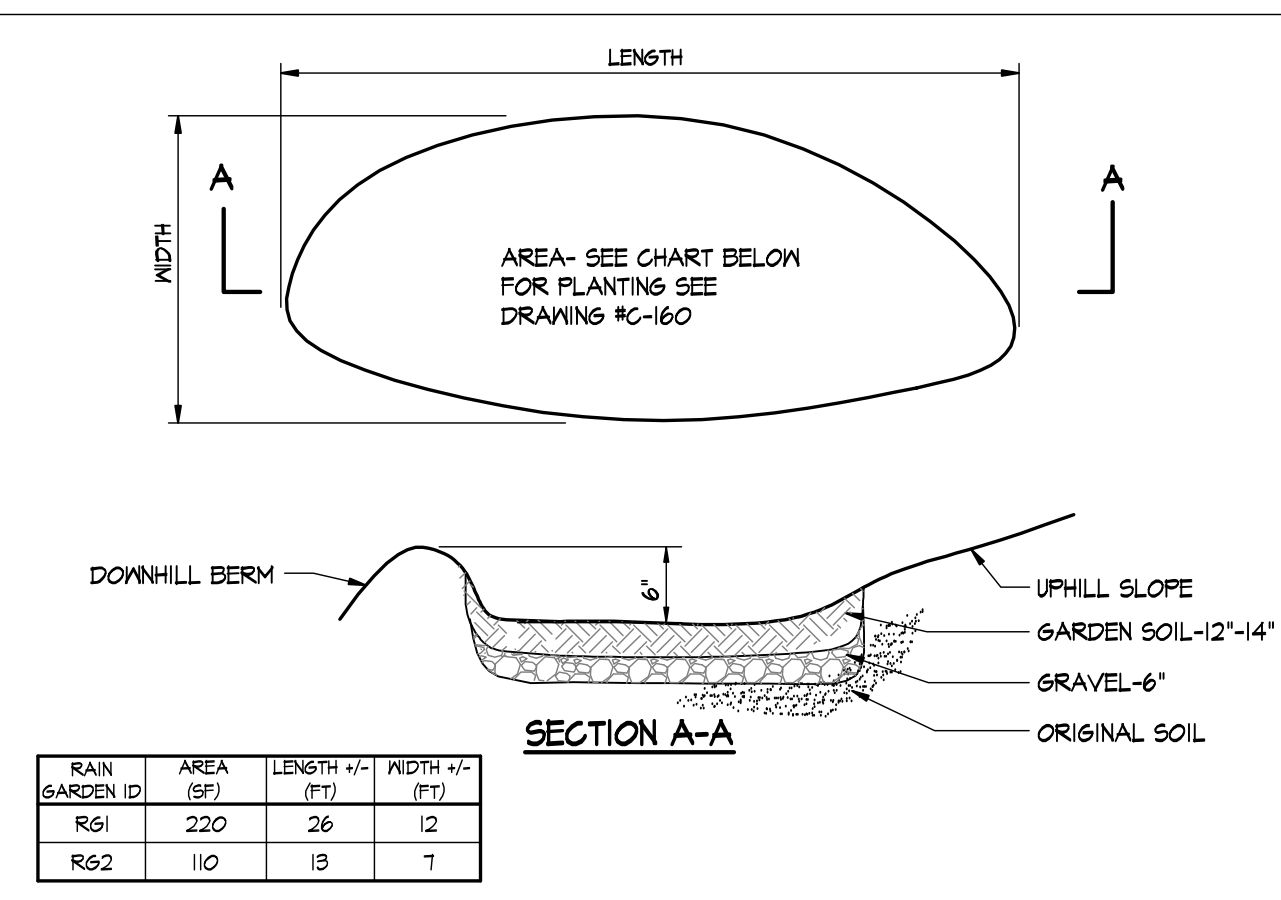
1 INFILTRATION SYSTEM DETAILS
 C-313 N.T.S.

2 YARD DRAIN YD#3, YD#4, YD#5 & YD#6 DTL.
 C-313 N.T.S.



3 UNDERGRND INFILTRATION SYSTEM UIS#1 LAYOUT
 C-313 N.T.S.

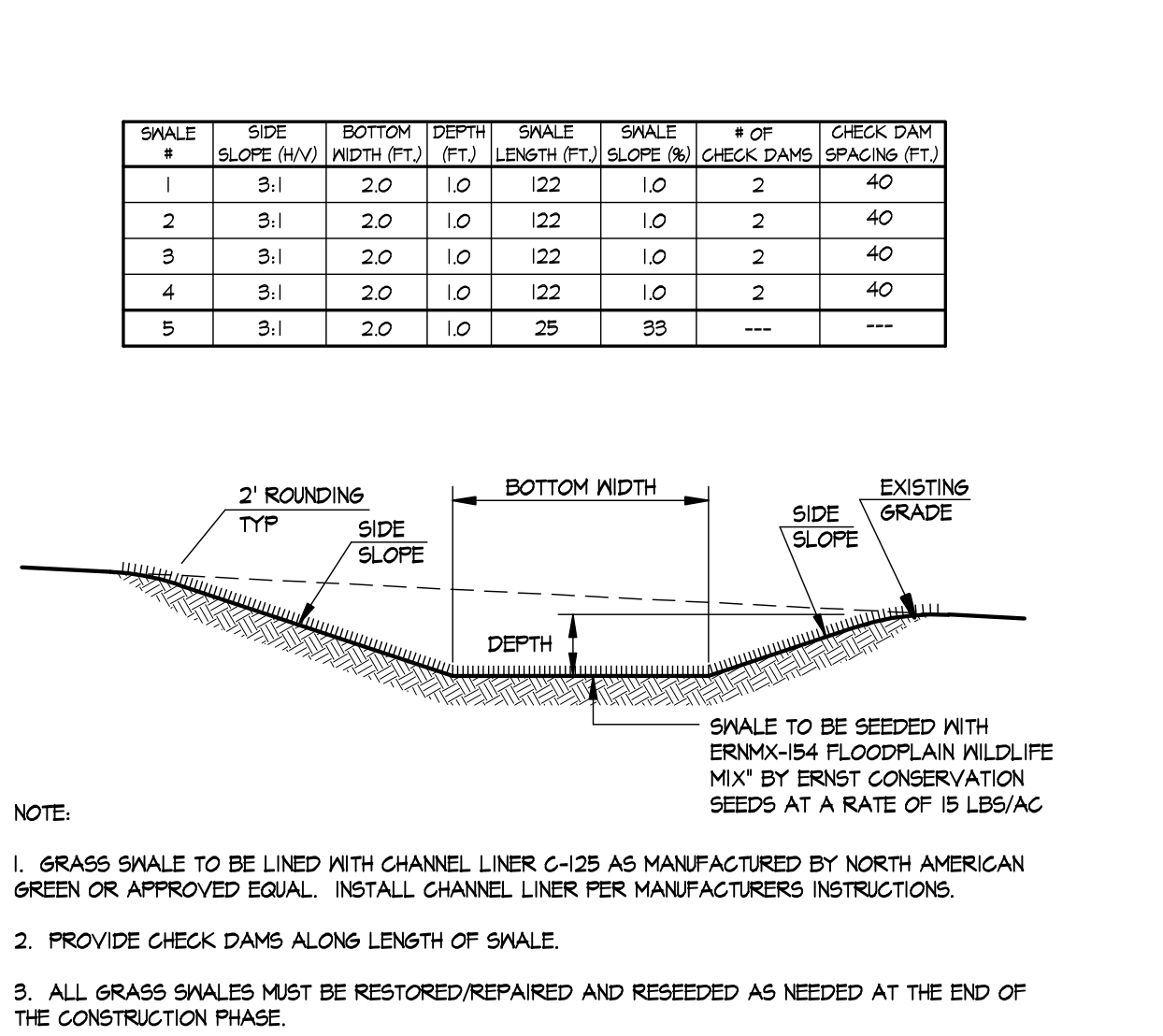
4 UNDERGRND INFILTRATION SYSTEM UIS#2 LAYOUT
 C-313 N.T.S.



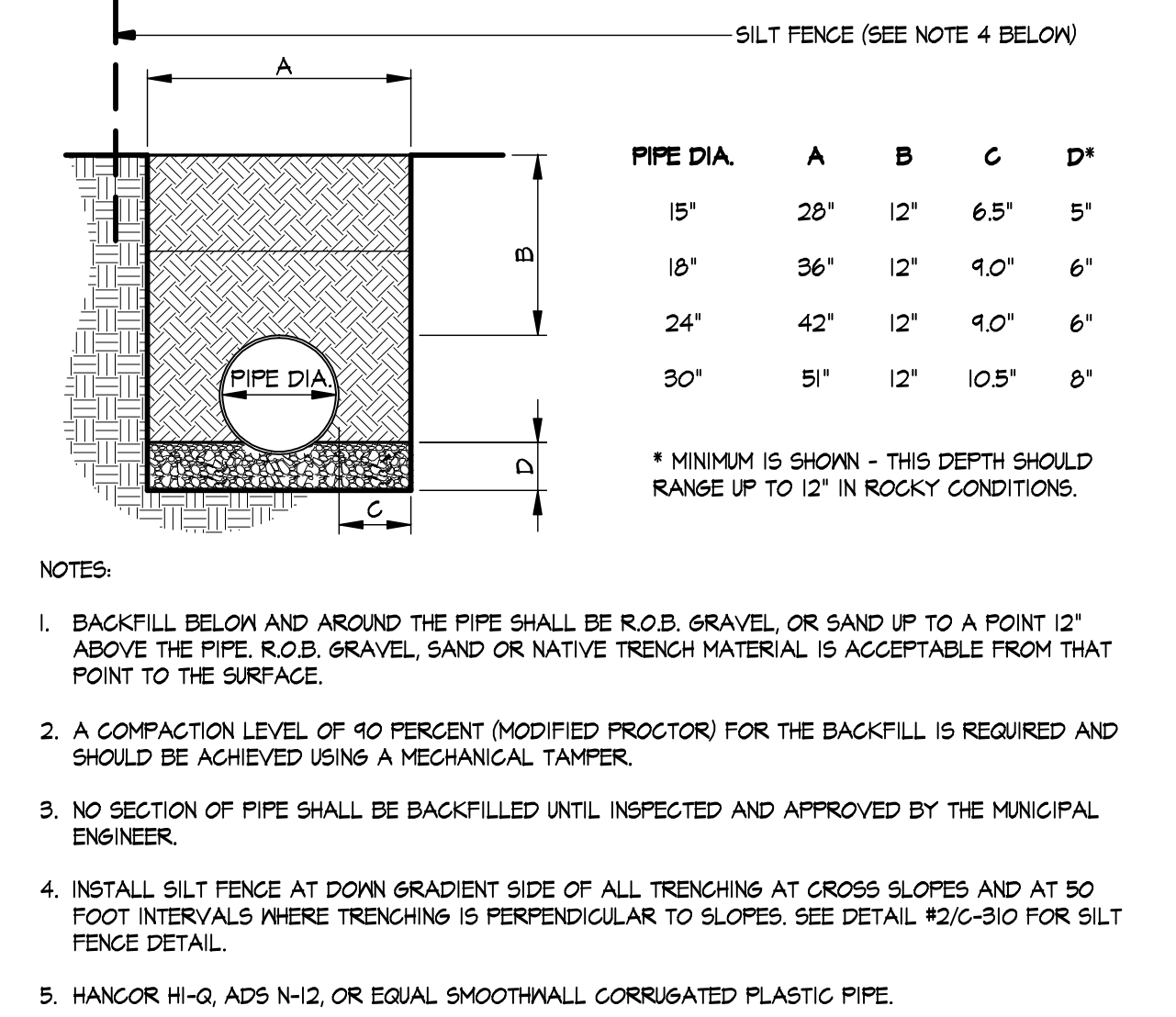
RAIN GARDEN ID	AREA (SF)	LENGTH +/- (FT)	WIDTH +/- (FT)
R61	220	26	12
R62	110	13	7

- NOTES:
- THIS IS A GENERIC RAIN GARDEN DETAIL. THE LENGTH AND WIDTH OF THE GARDEN, AS WELL AS SHAPE MAY DIFFER. THE TOTAL SURFACE AREA SHALL BE AS LISTED ABOVE.
 - ARDEN SOIL SHALL BE 50%-10% SAND (LESS THAN 5% CLAY CONTENT) AND 50%-30% TOPSOIL (WITH AN AVERAGE OF 5% ORGANIC MATERIAL) AND FREE OF STONES, ROOTS AND WOOD DEBRIS AND ANIMAL WASTE. GRAVEL SHALL BE CLEANED WASHED GRAVEL APPROXIMATELY 1.5-2.0 INCHES DIAMETER ROCK.

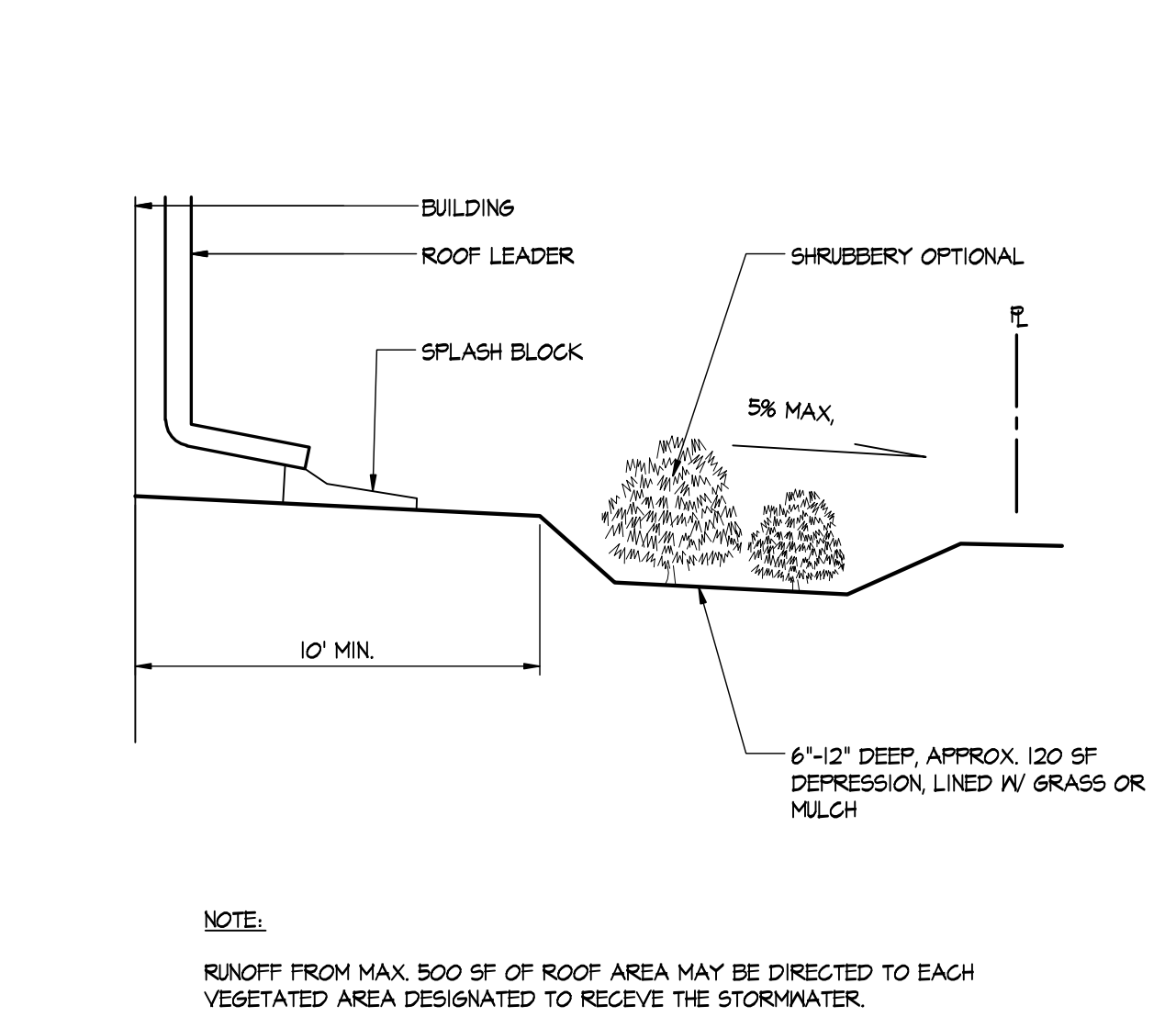
5 RAIN GARDEN DETAILS
 C-313 N.T.S.



6 GRASS SWALE DETAIL
 C-313 N.T.S.



7 STORM DRAIN TRENCH DETAIL
 C-313 N.T.S.



8 ROOF LEADER DISCONNECTION DTL.
 C-313 N.T.S.

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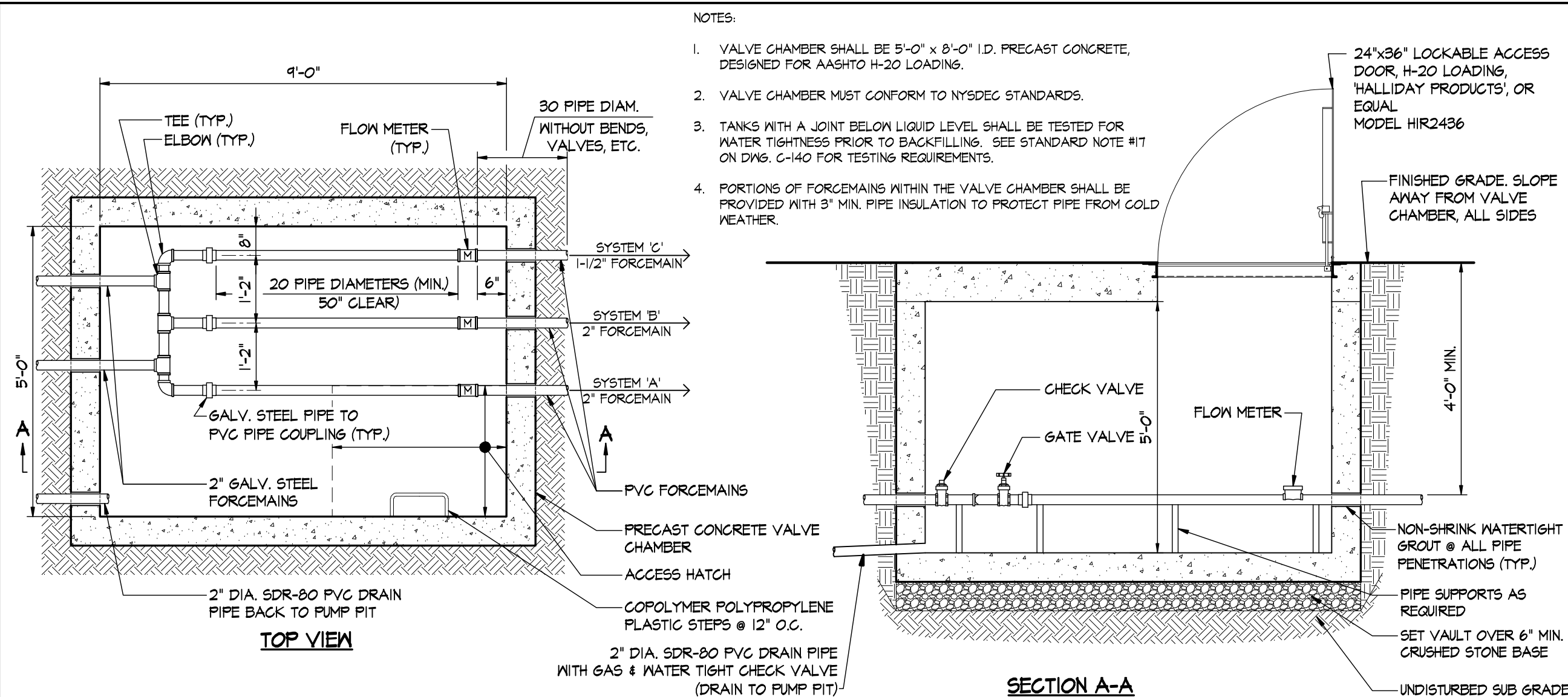
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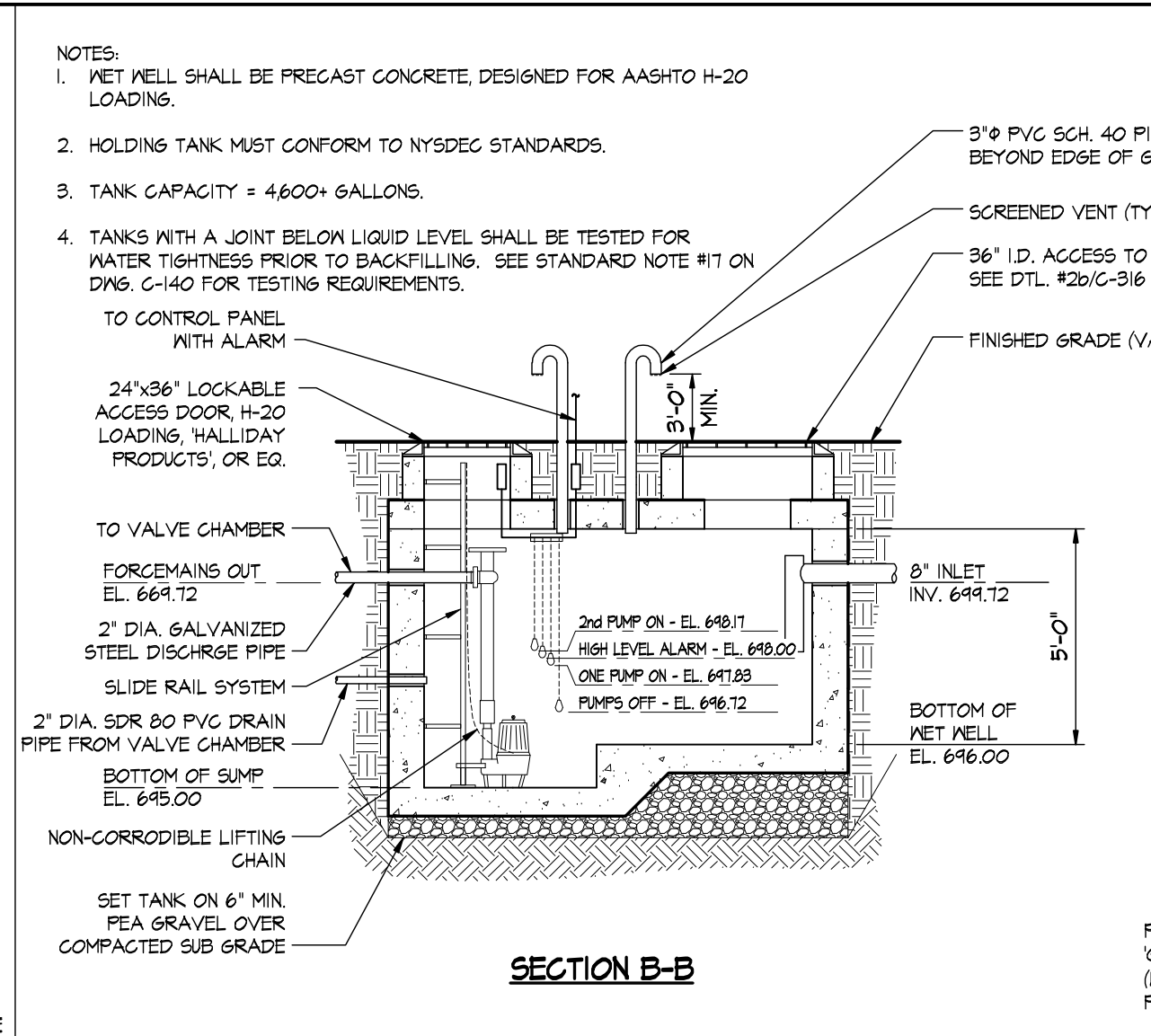
PROJECT: PROPOSED SUBDIVISION PLAN PREPARED FOR:
OLD FORGE ESTATES
 BALDWIN PLACE ROAD
 TOWN OF CARMEL
 PUTNAM COUNTY, NEW YORK
 TAX MAP 15.15-1-14

DATE: 12 APR 18
 PROJECT MANAGER: PML
 DRAWN BY: BJK
 CHECKED BY: PML
 SCALE: AS NOTED

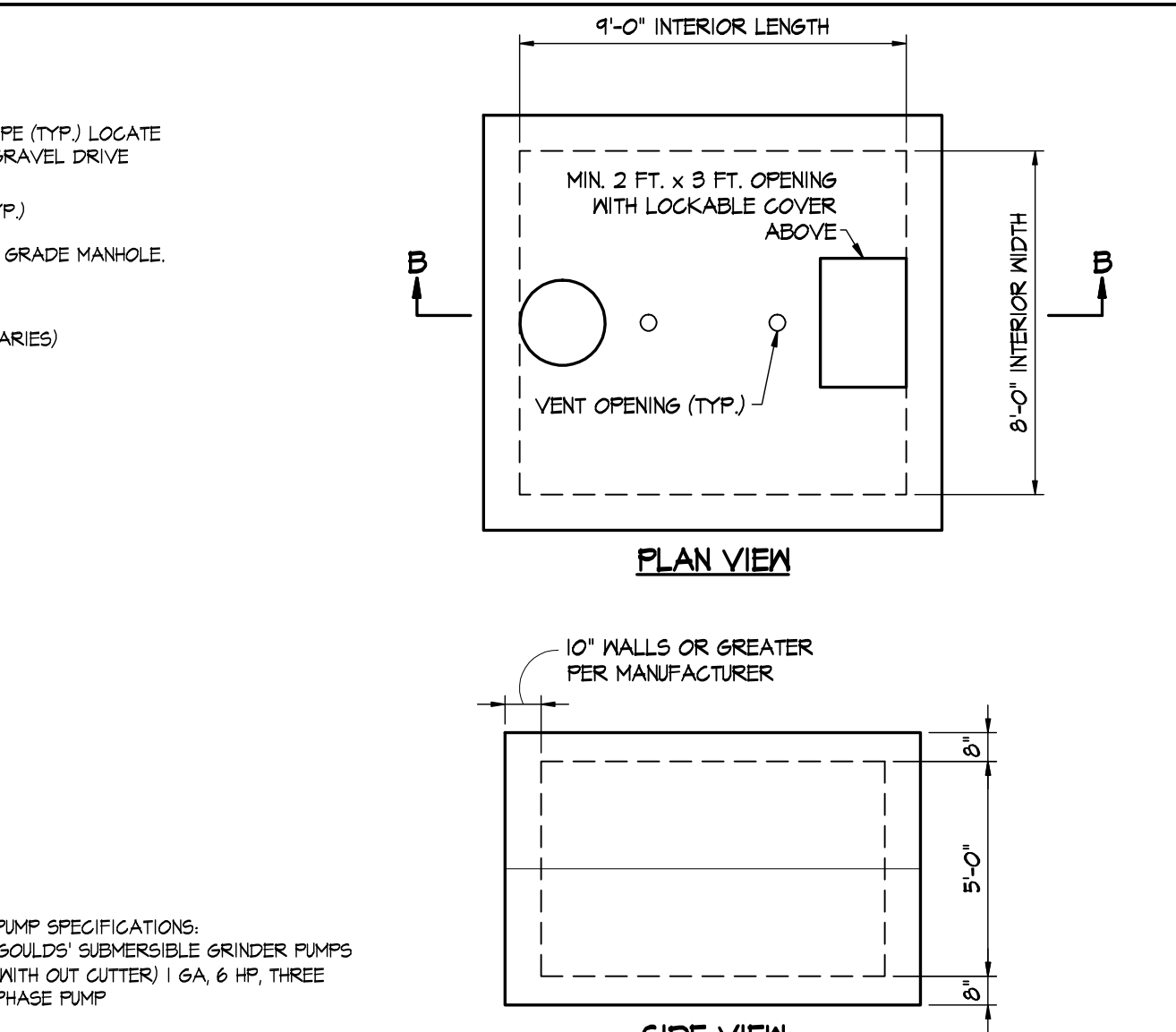
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 PROJECT NUMBER: 8226
 DRAWING NUMBER: **C-313**
 SHEET 28 OF 34



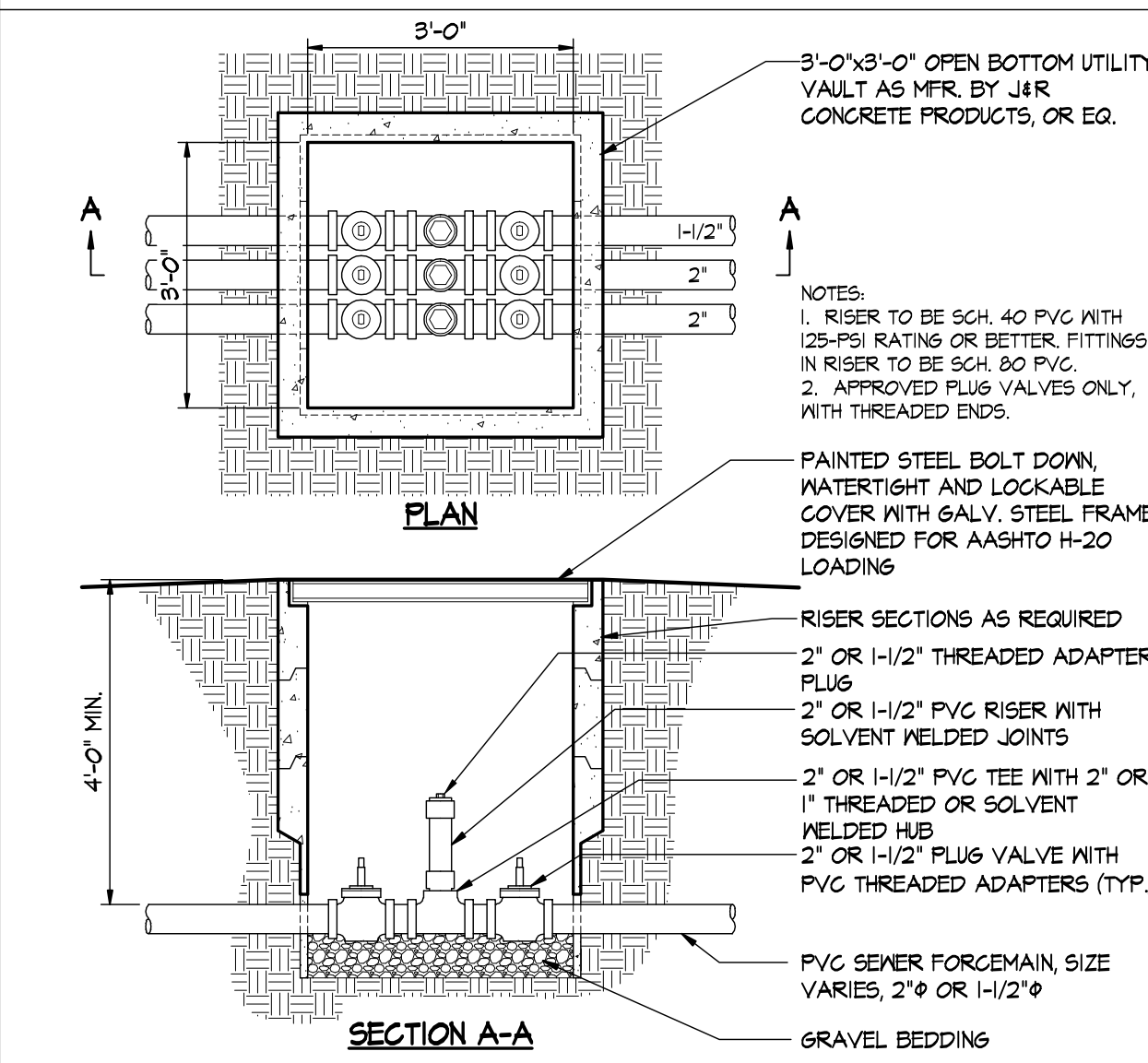
1 VALVE CHAMBER DETAILS
C-315 N.T.S.



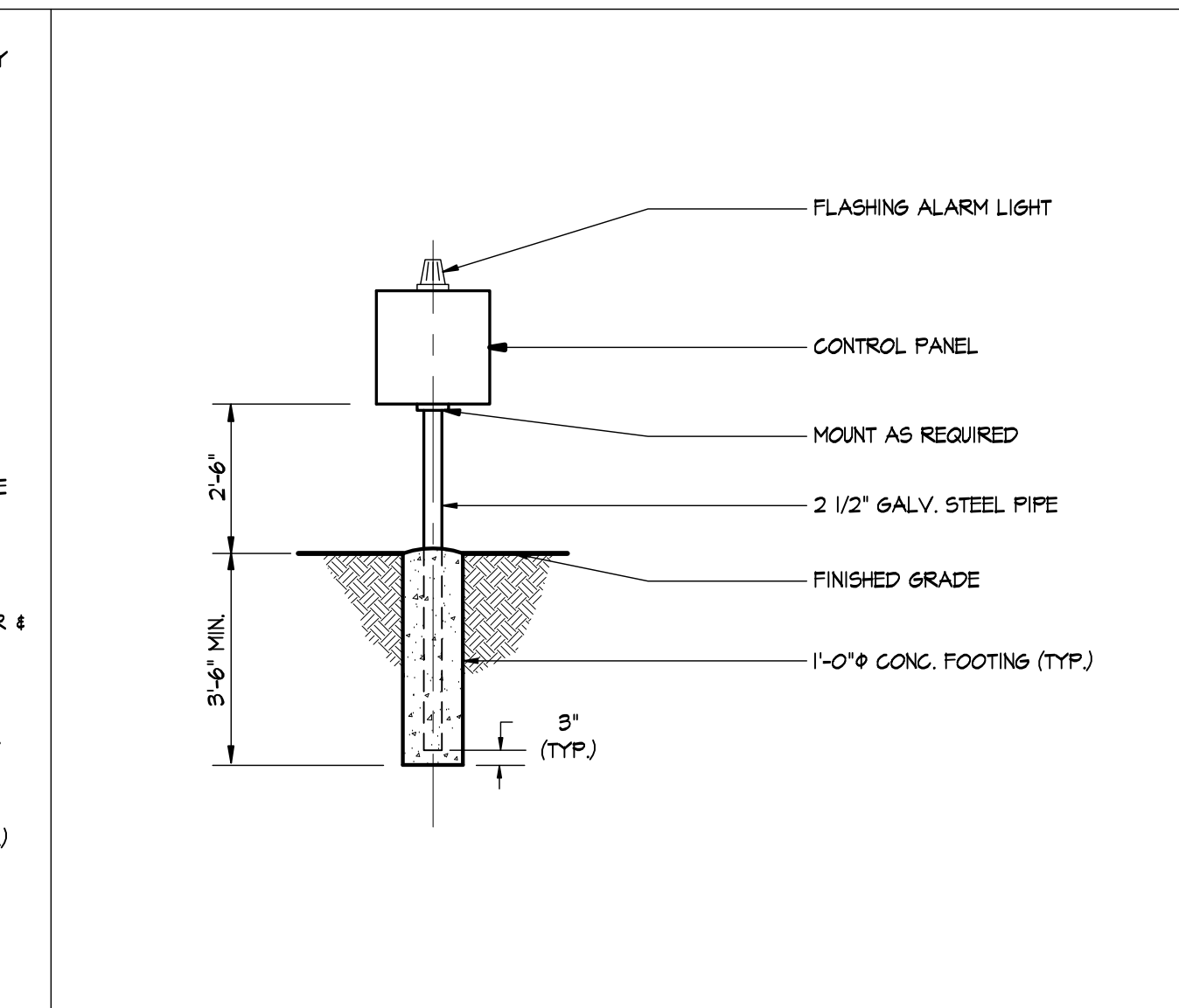
2 WET WELL DETAILS
C-315 N.T.S.



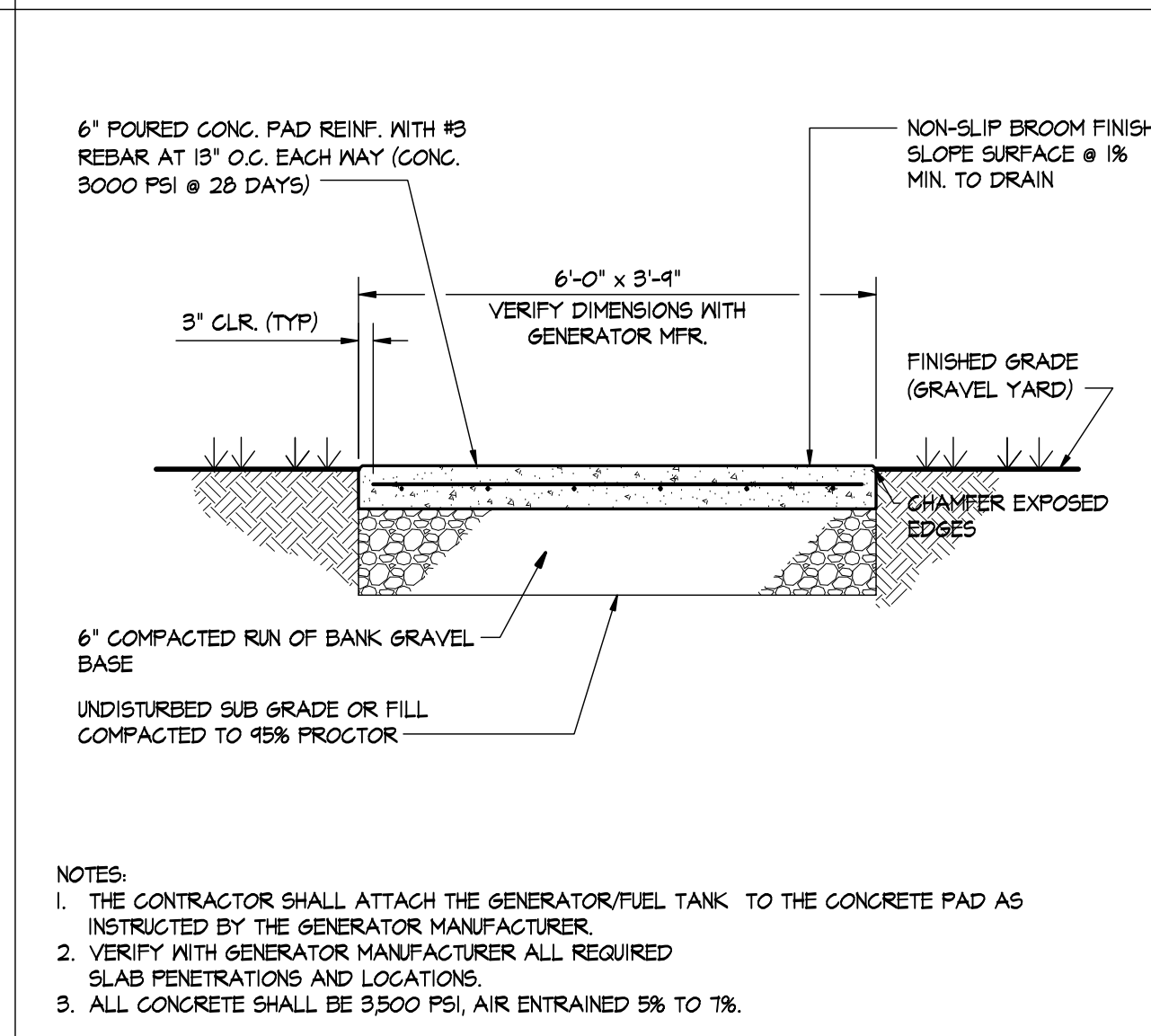
3 SEWER FORCE MAIN FLUSHING CONNECTION DTL.
C-315 N.T.S.



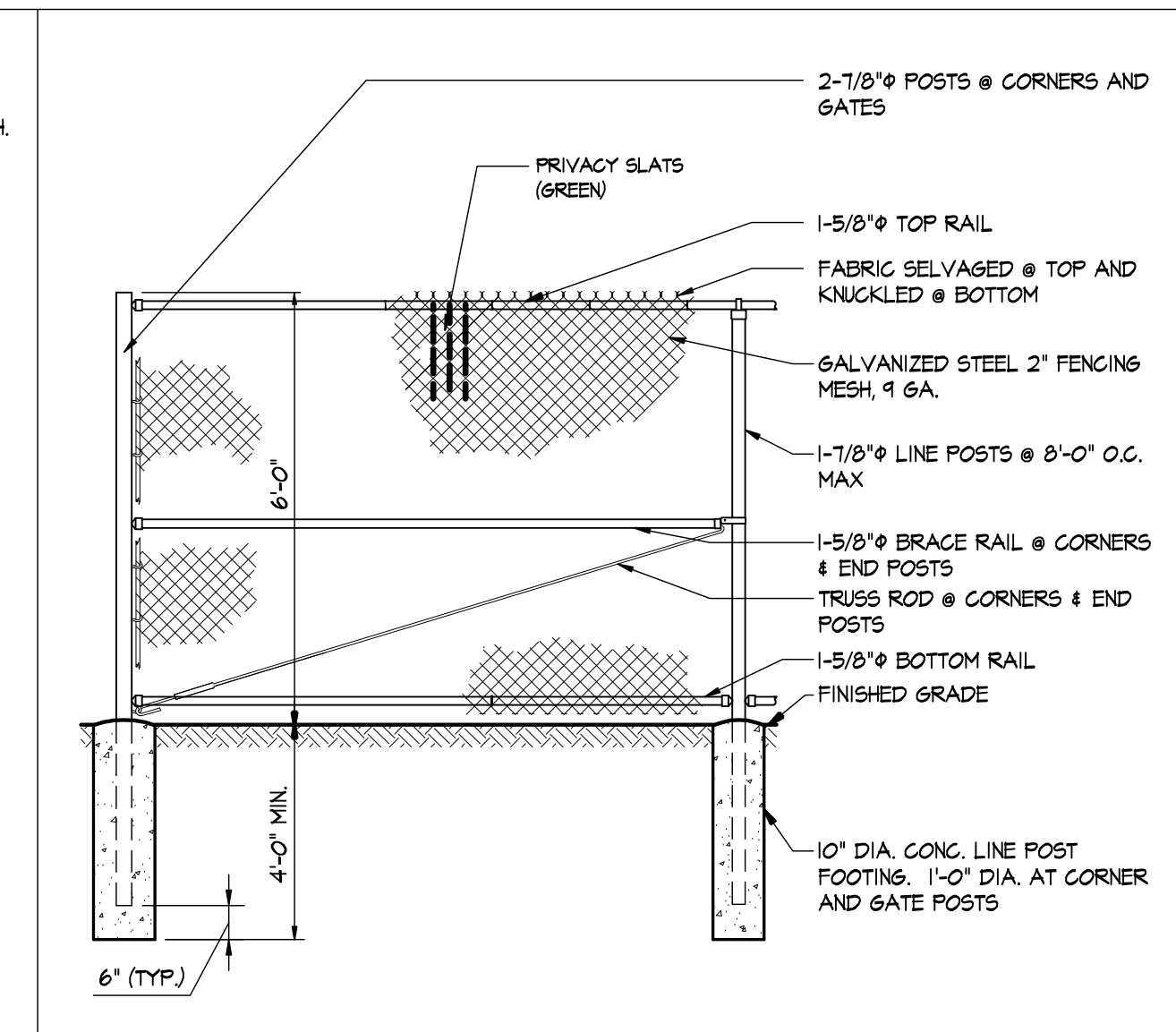
3 SEWER FORCE MAIN FLUSHING CONNECTION DTL.
C-315 N.T.S.



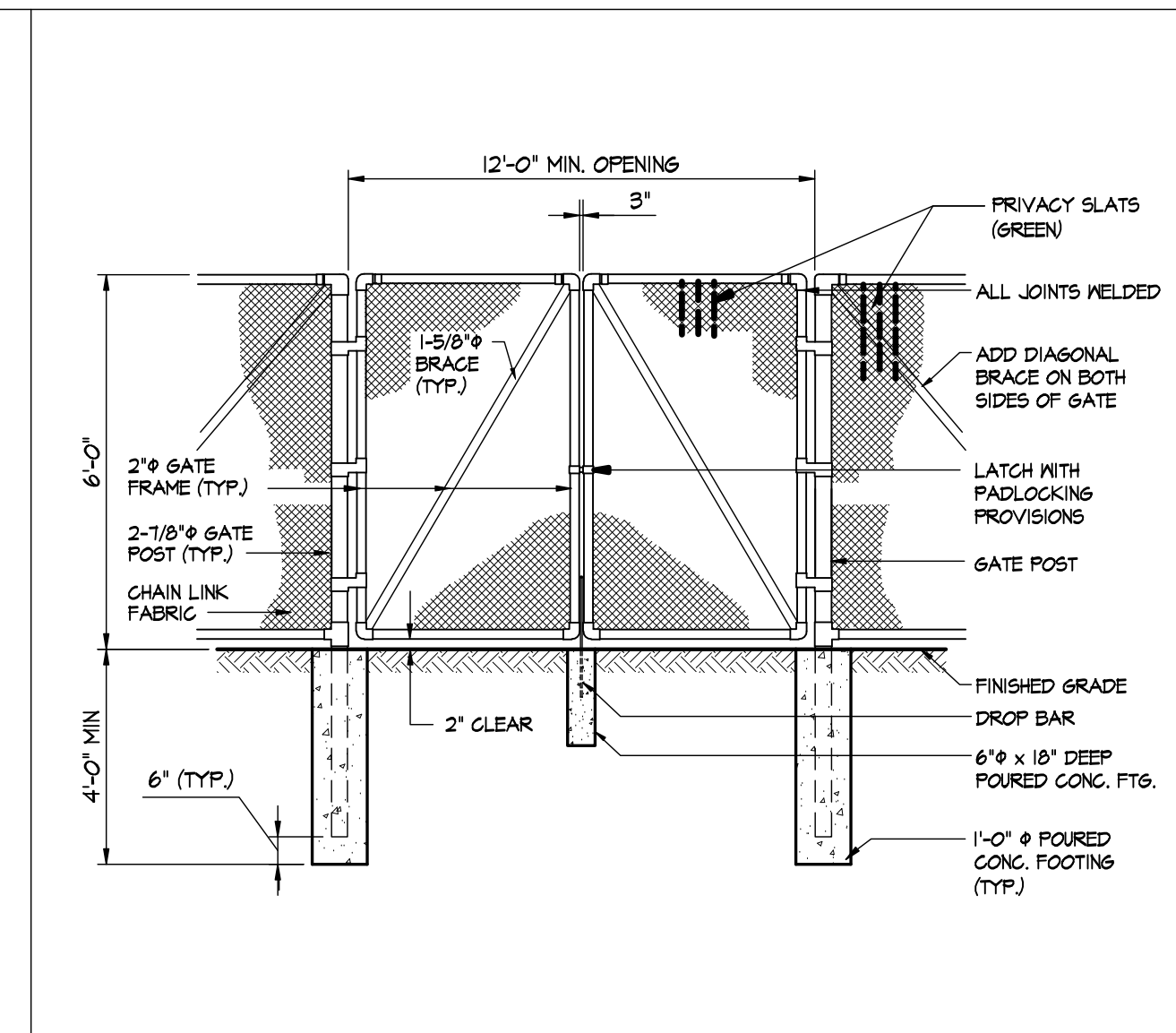
4 CONTROL PANEL MOUNTING DETAIL
C-315 N.T.S.



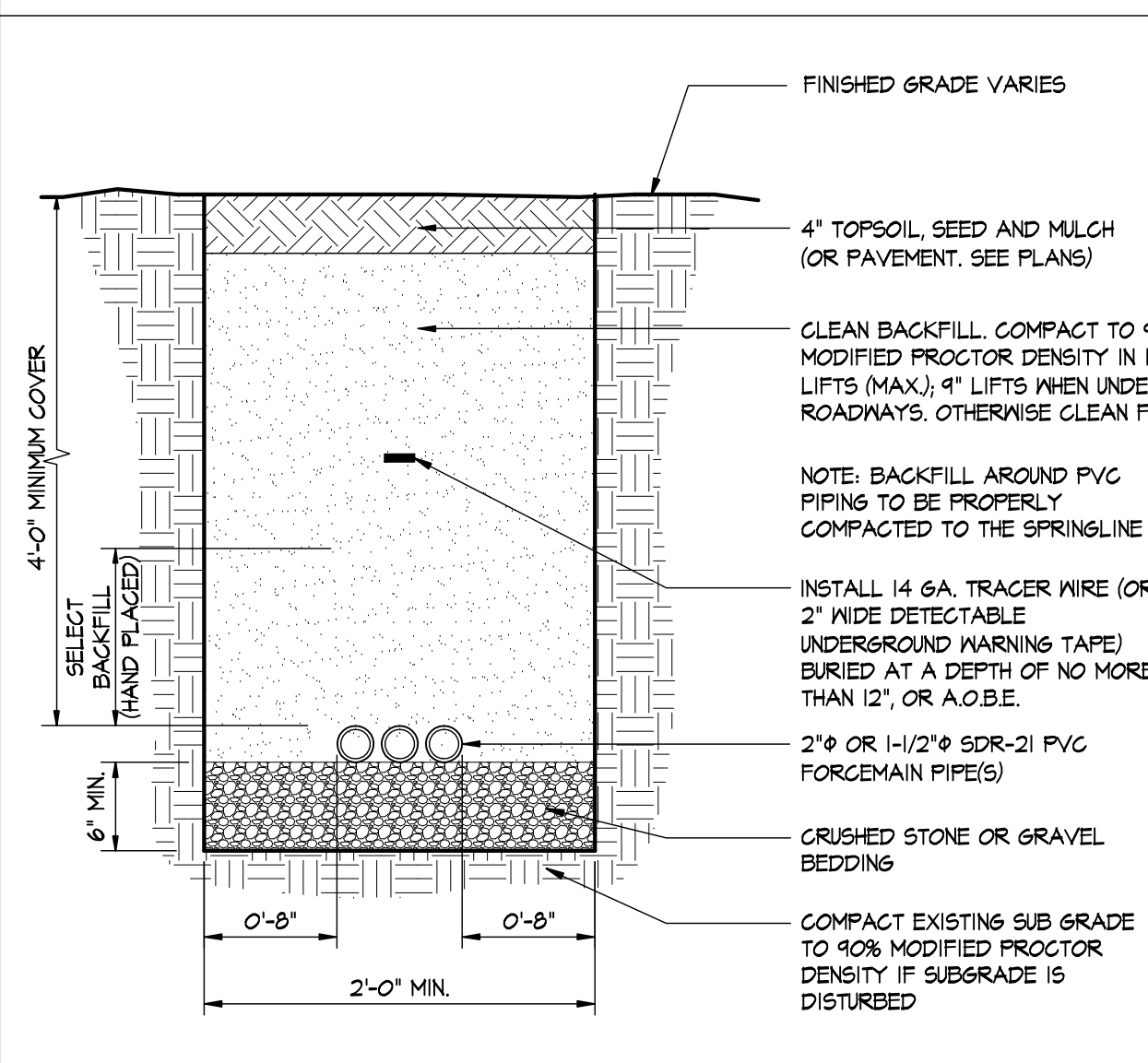
5 GENERATOR PAD DETAIL
C-315 N.T.S.



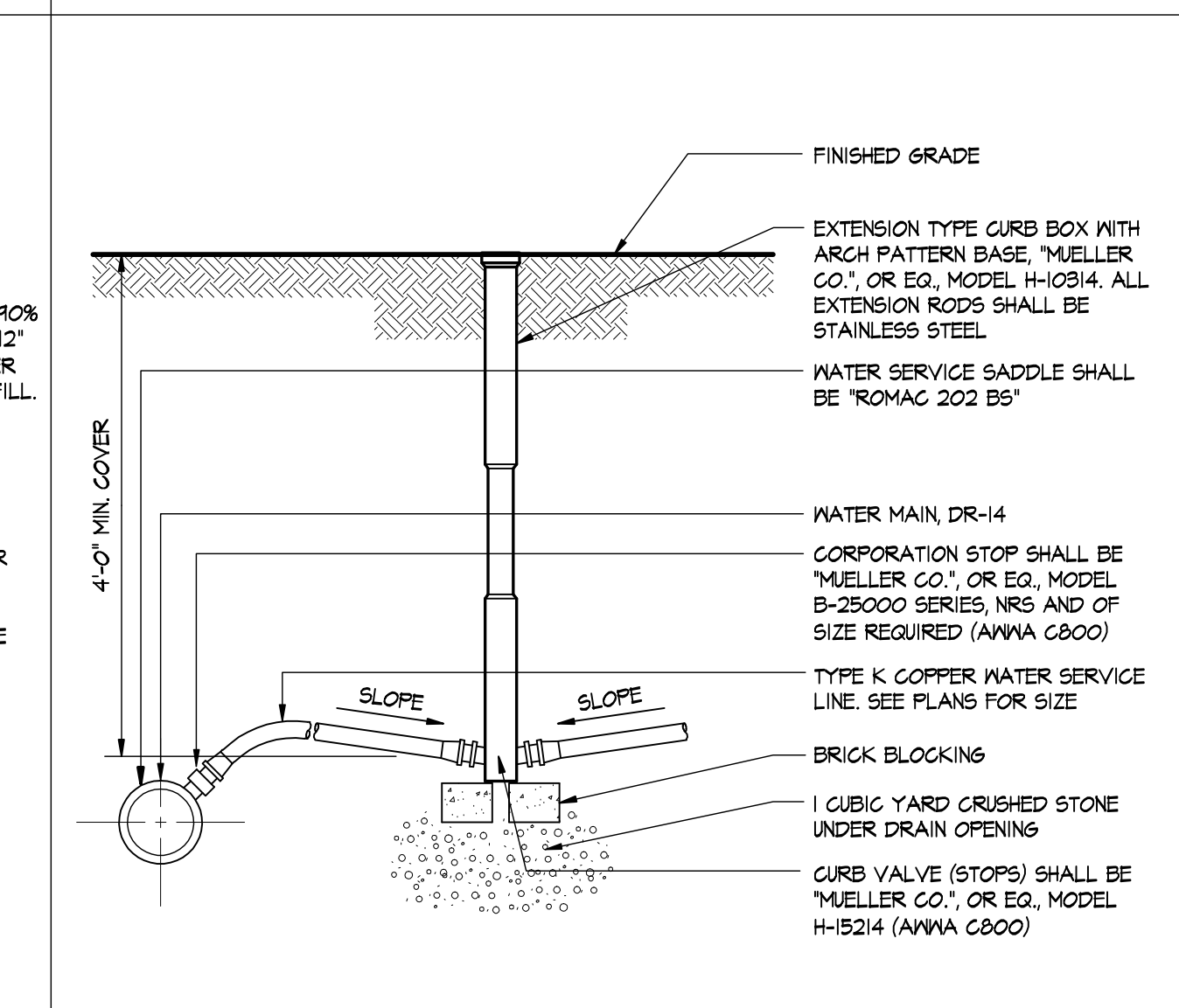
6 CHAIN LINK FENCE DETAIL
C-315 N.T.S.



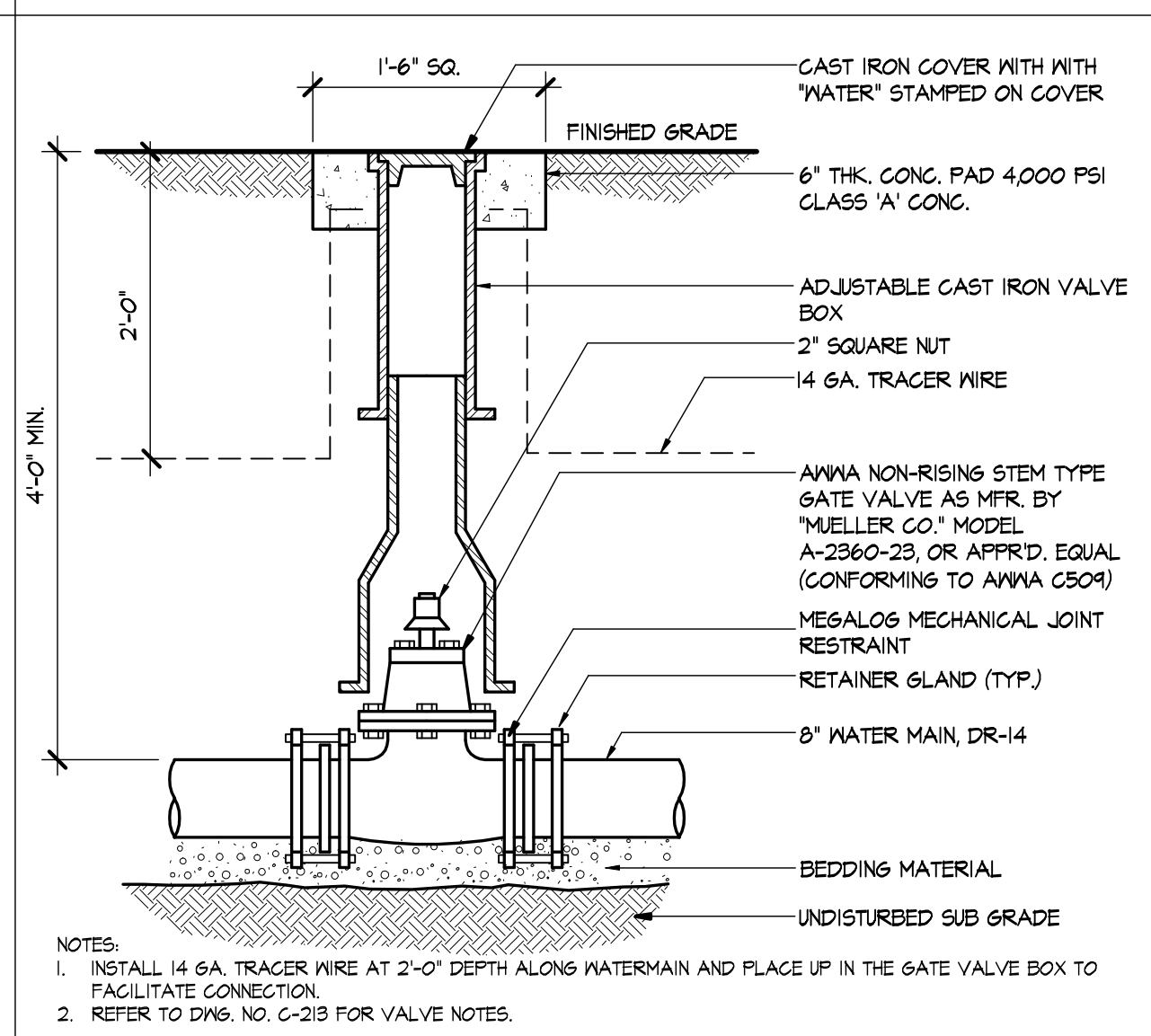
7 CHAIN LINK GATE DETAIL
C-315 N.T.S.



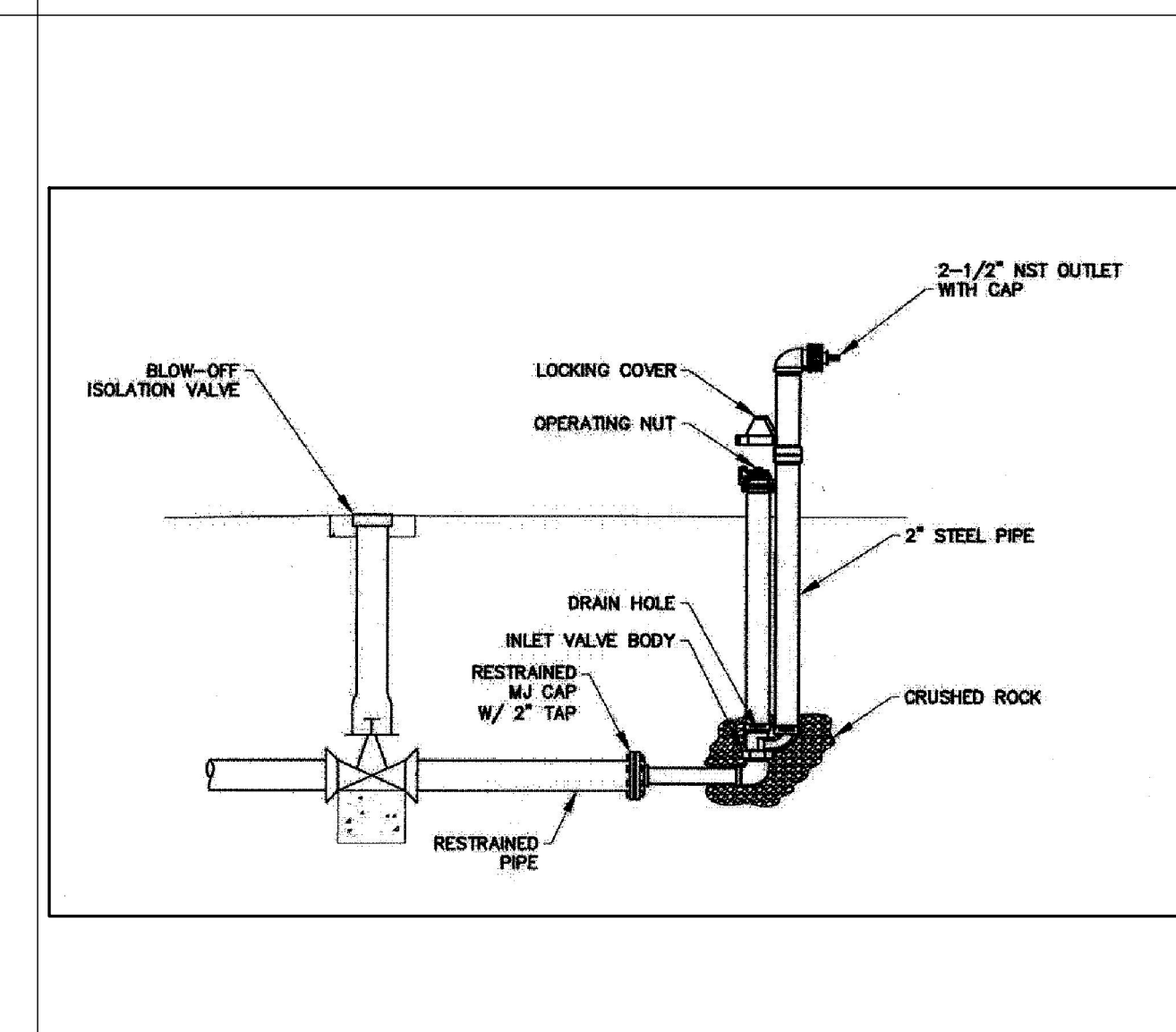
8 SEWER FORCE MAIN TRENCH DETAIL
C-315 N.T.S.



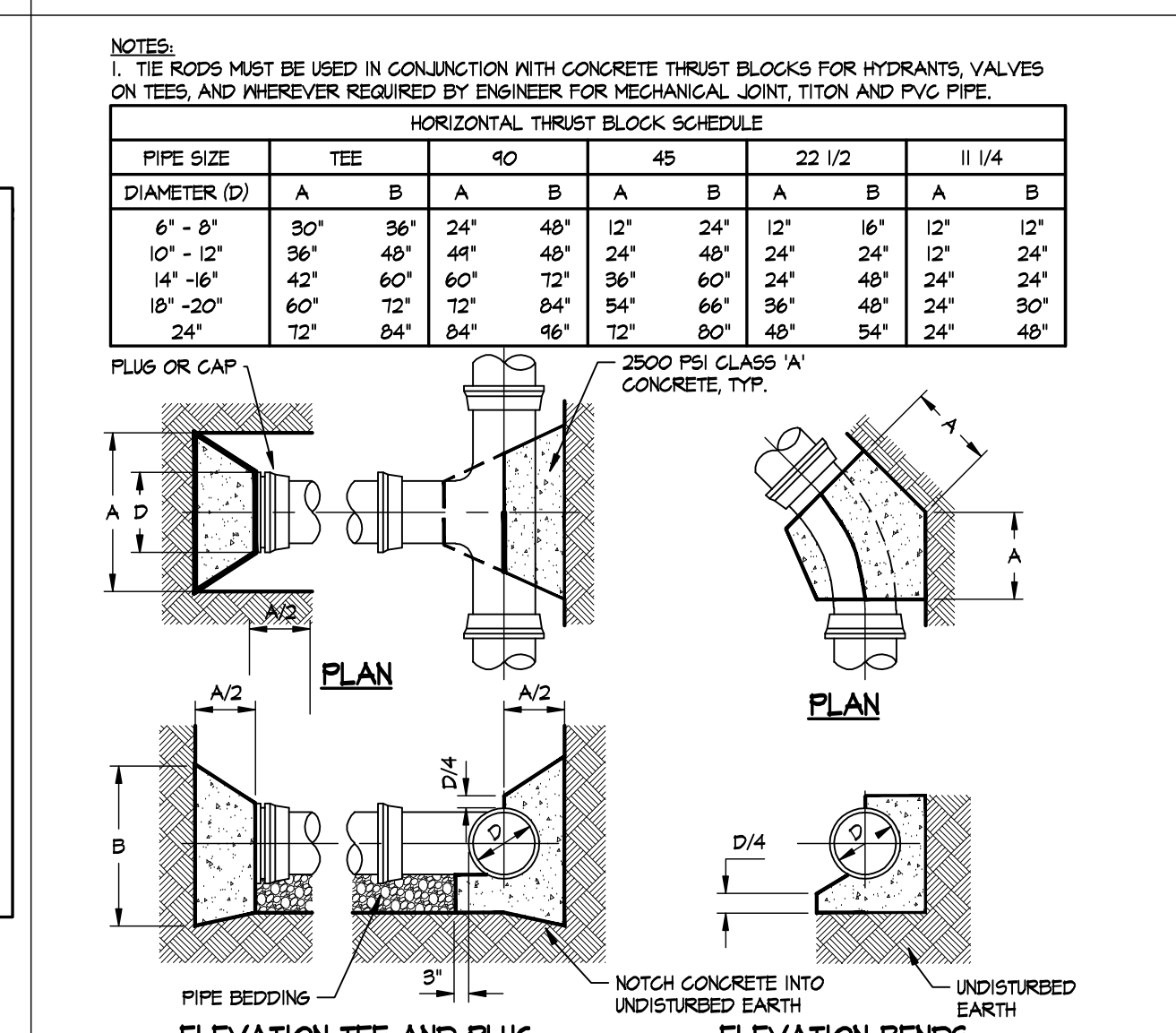
9 WATER SERVICE CONNECTION DETAIL
C-315 N.T.S.



10 WATER VALVE DETAIL
C-315 N.T.S.



10 HYDRANT DETAIL
C-315 N.T.S.



11 HORIZONTAL THRUST BLOCK DETAILS
C-315 N.T.S.

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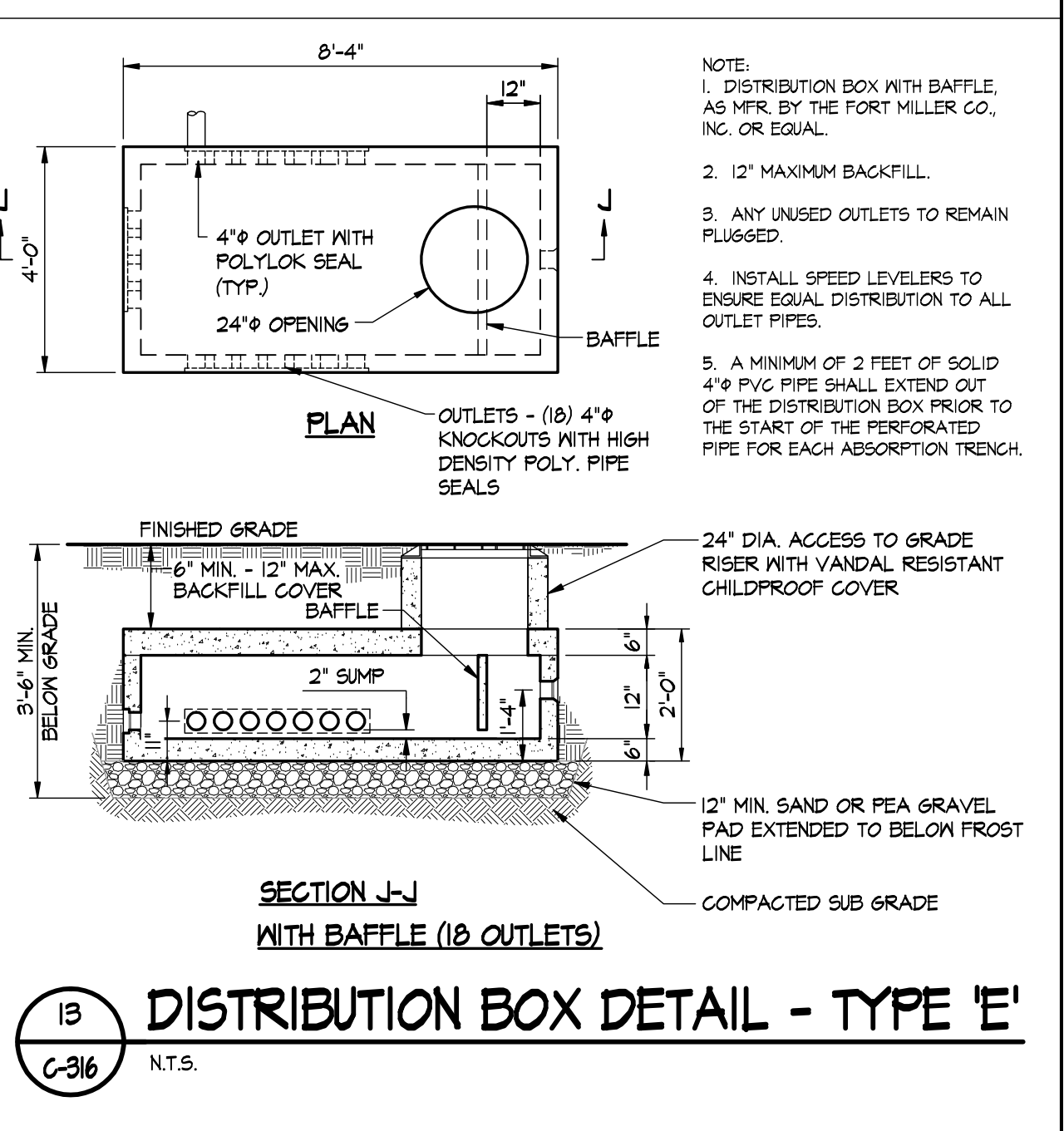
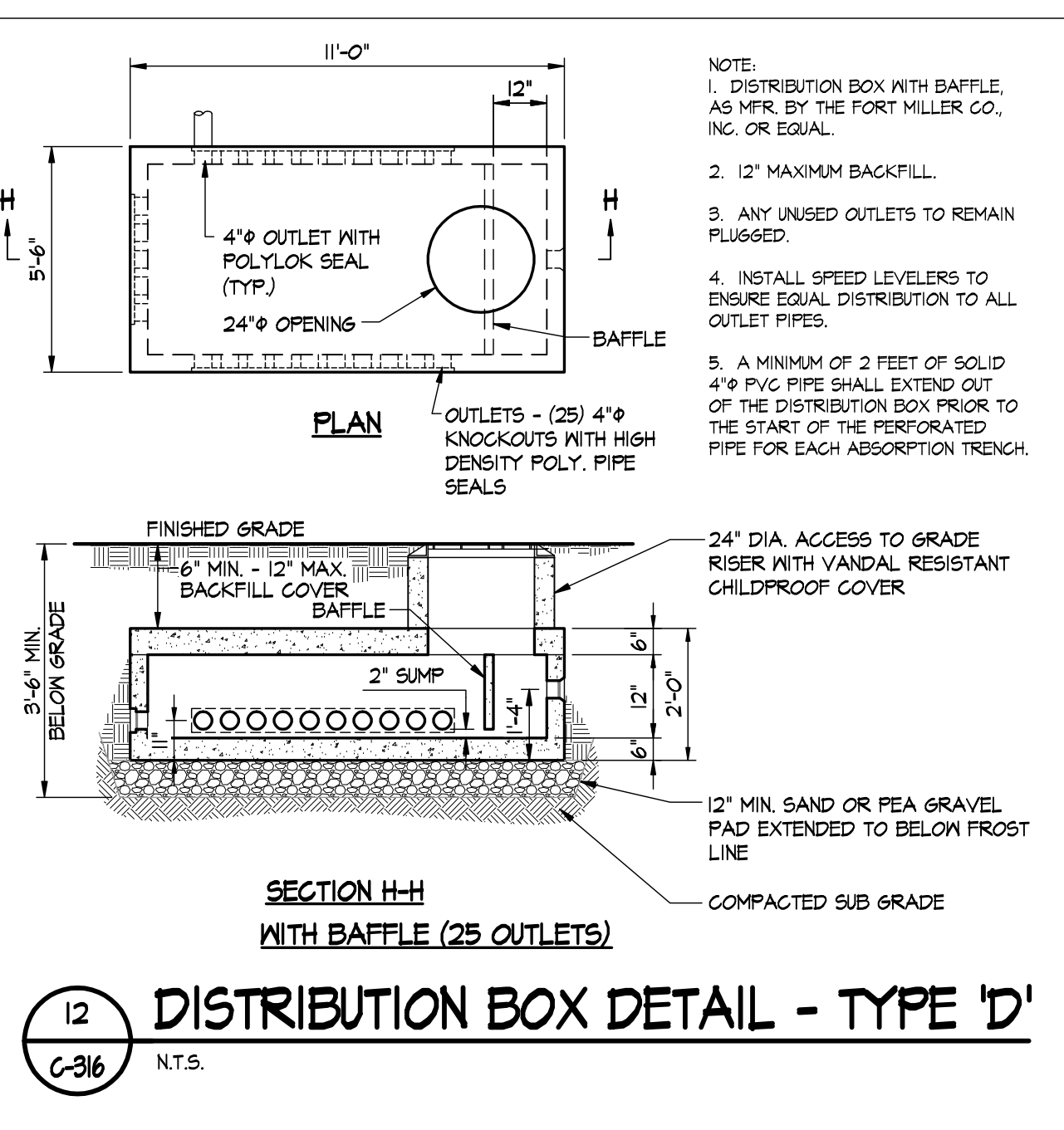
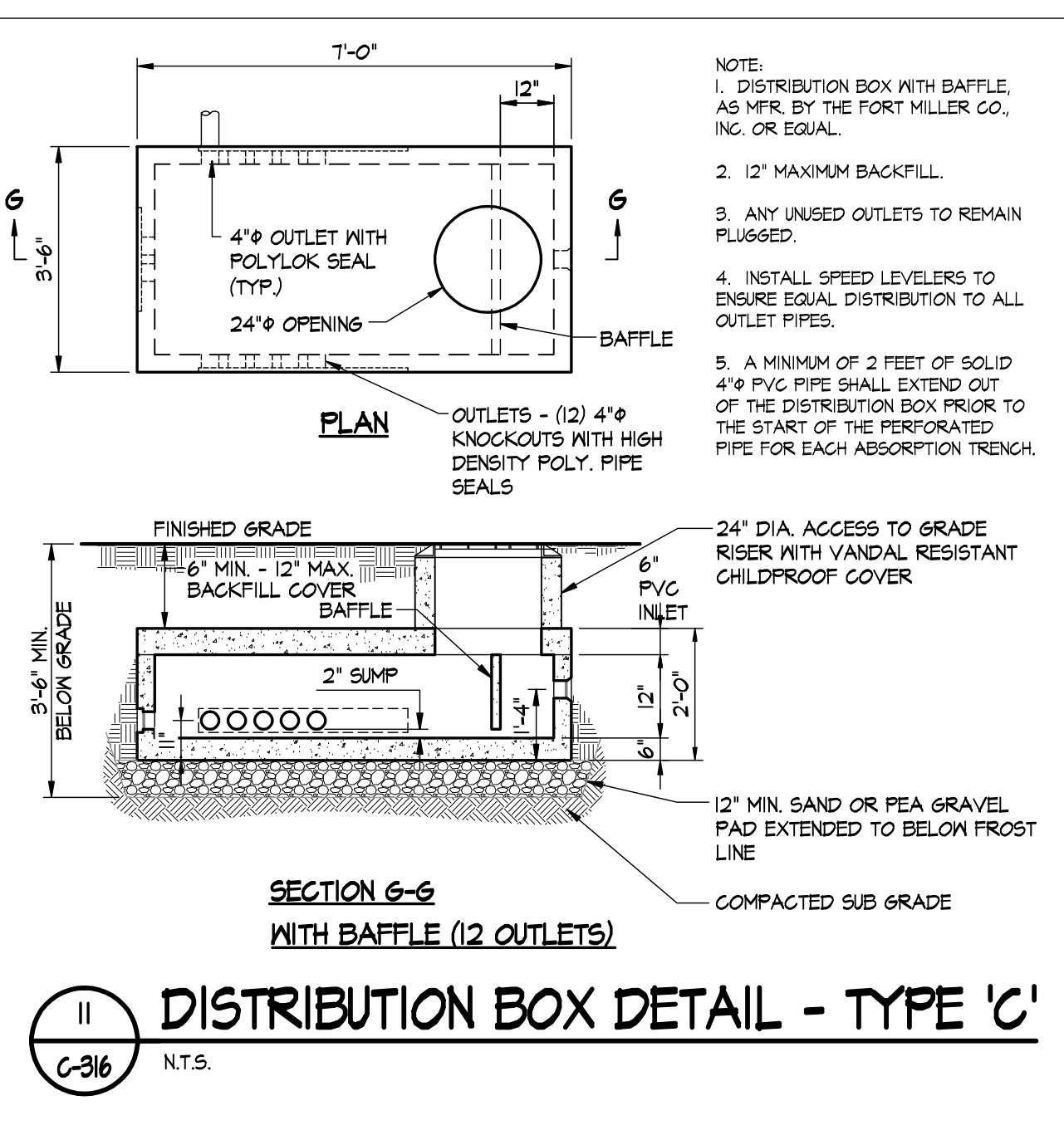
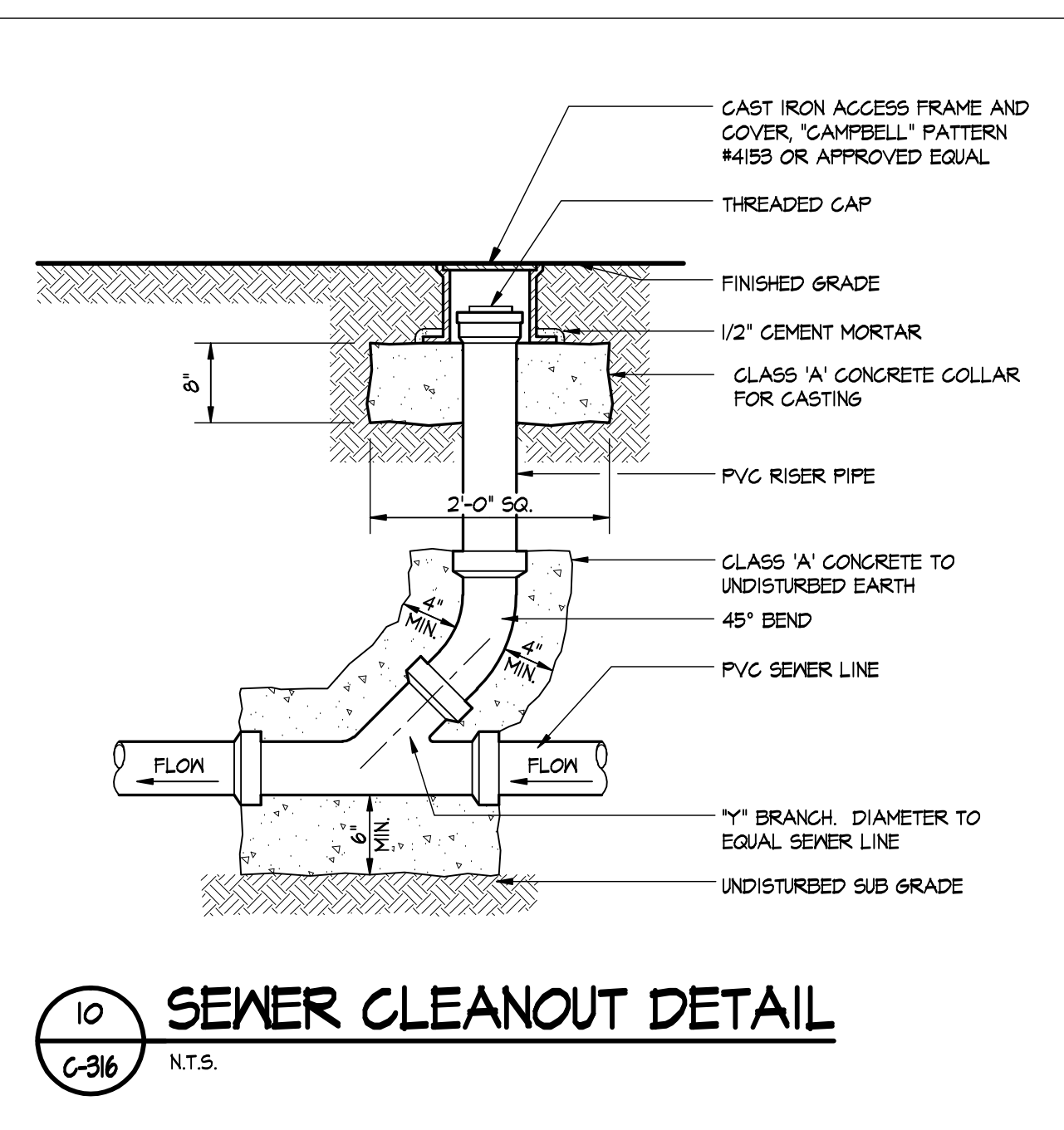
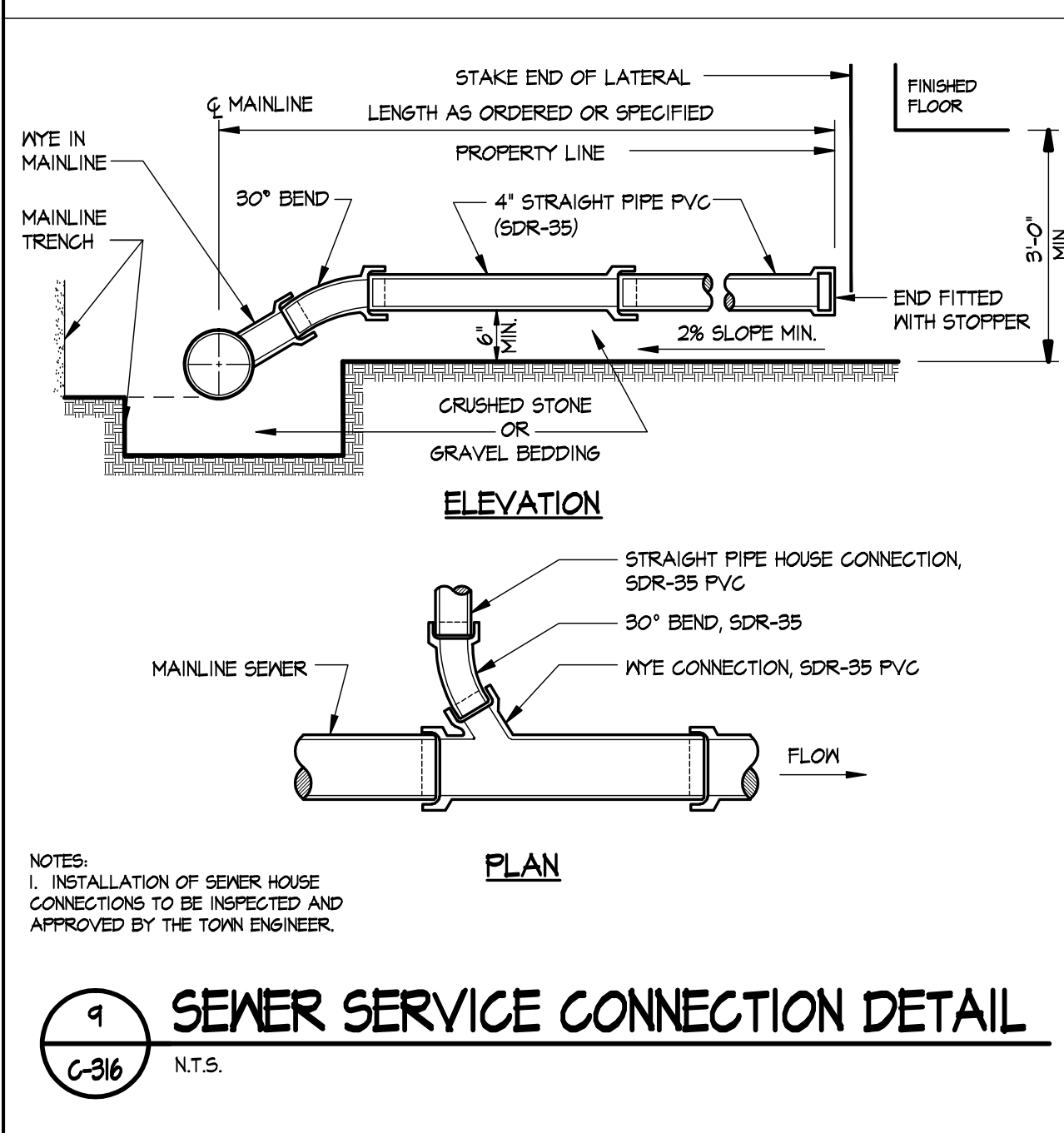
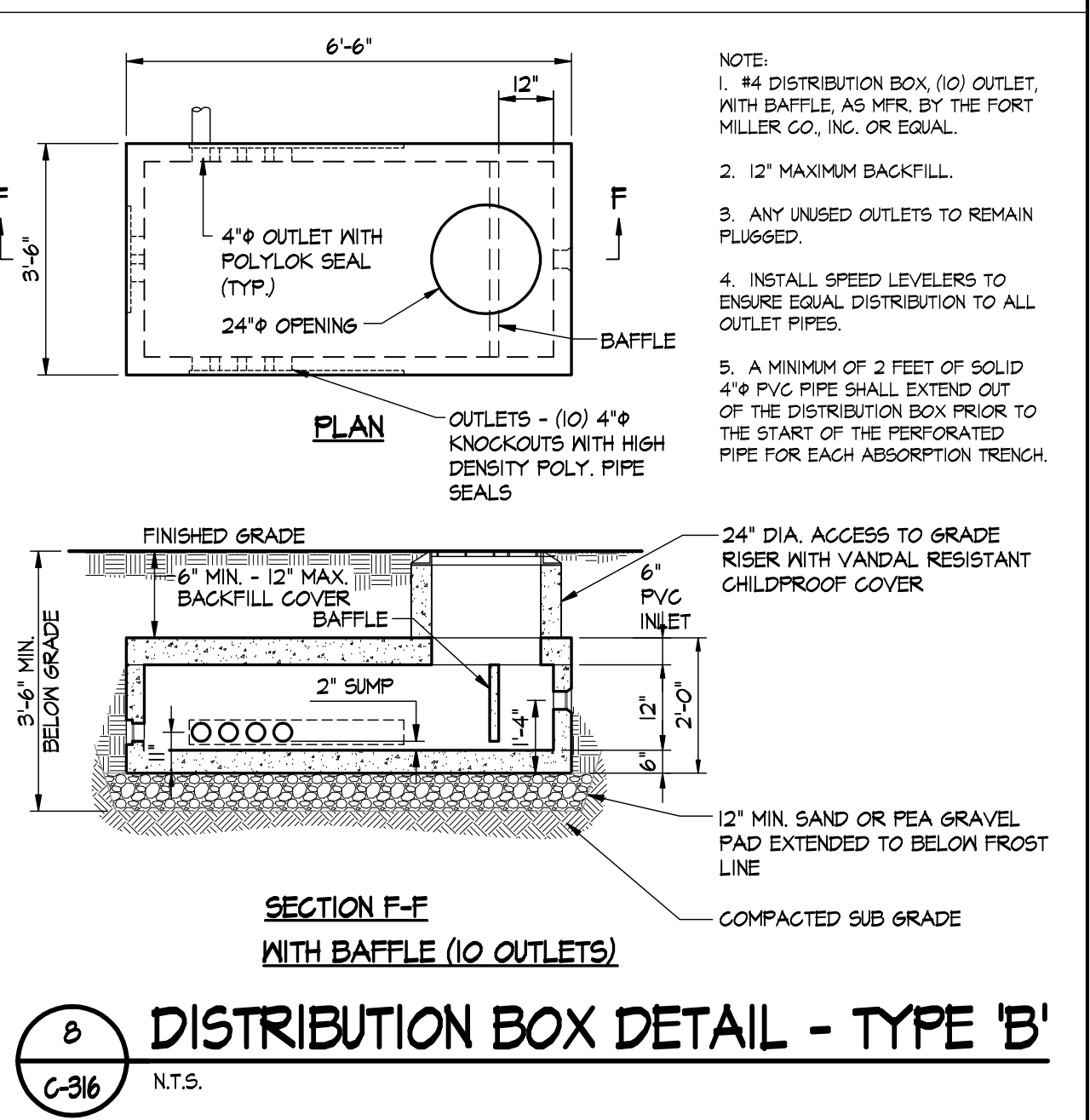
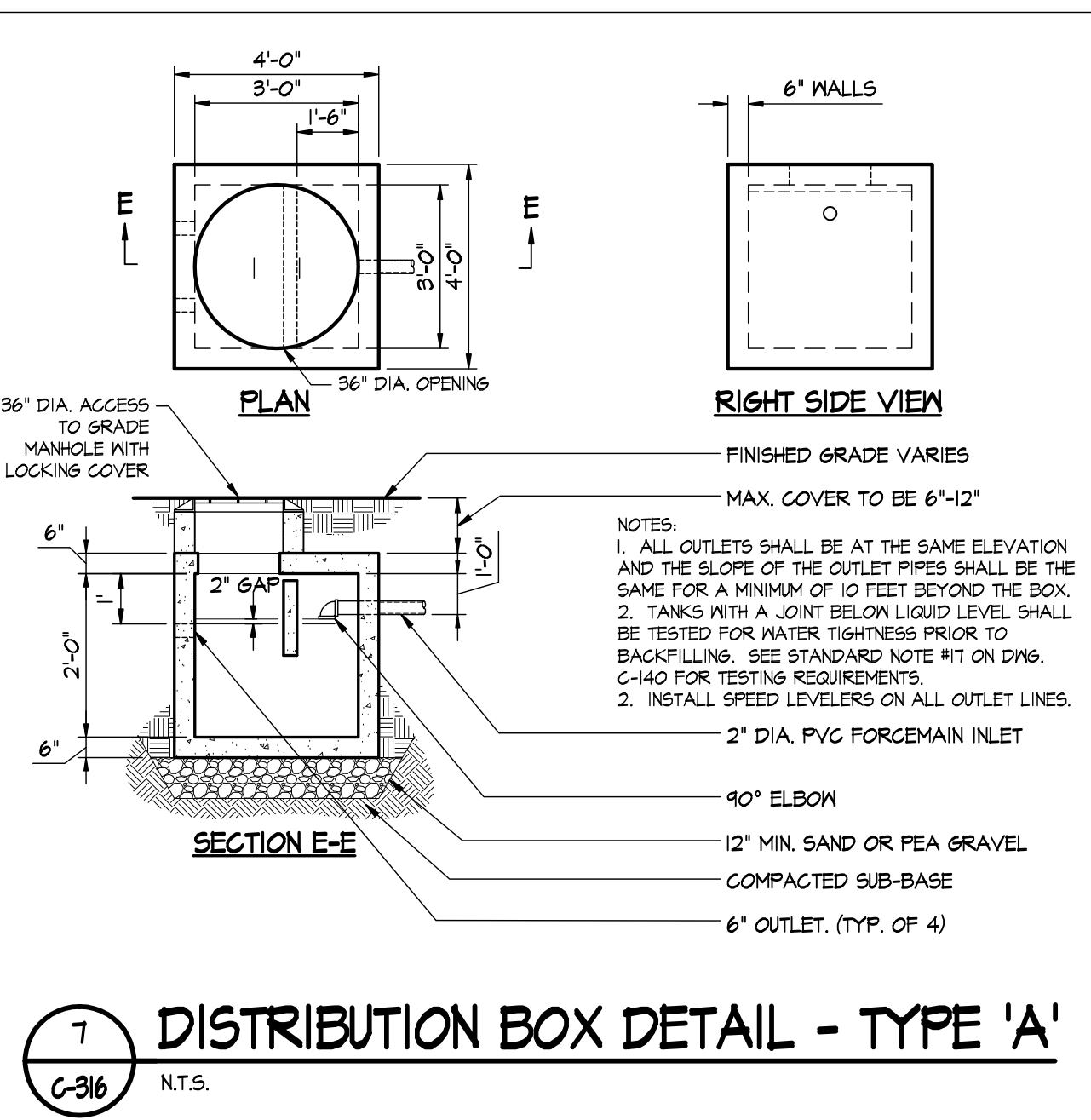
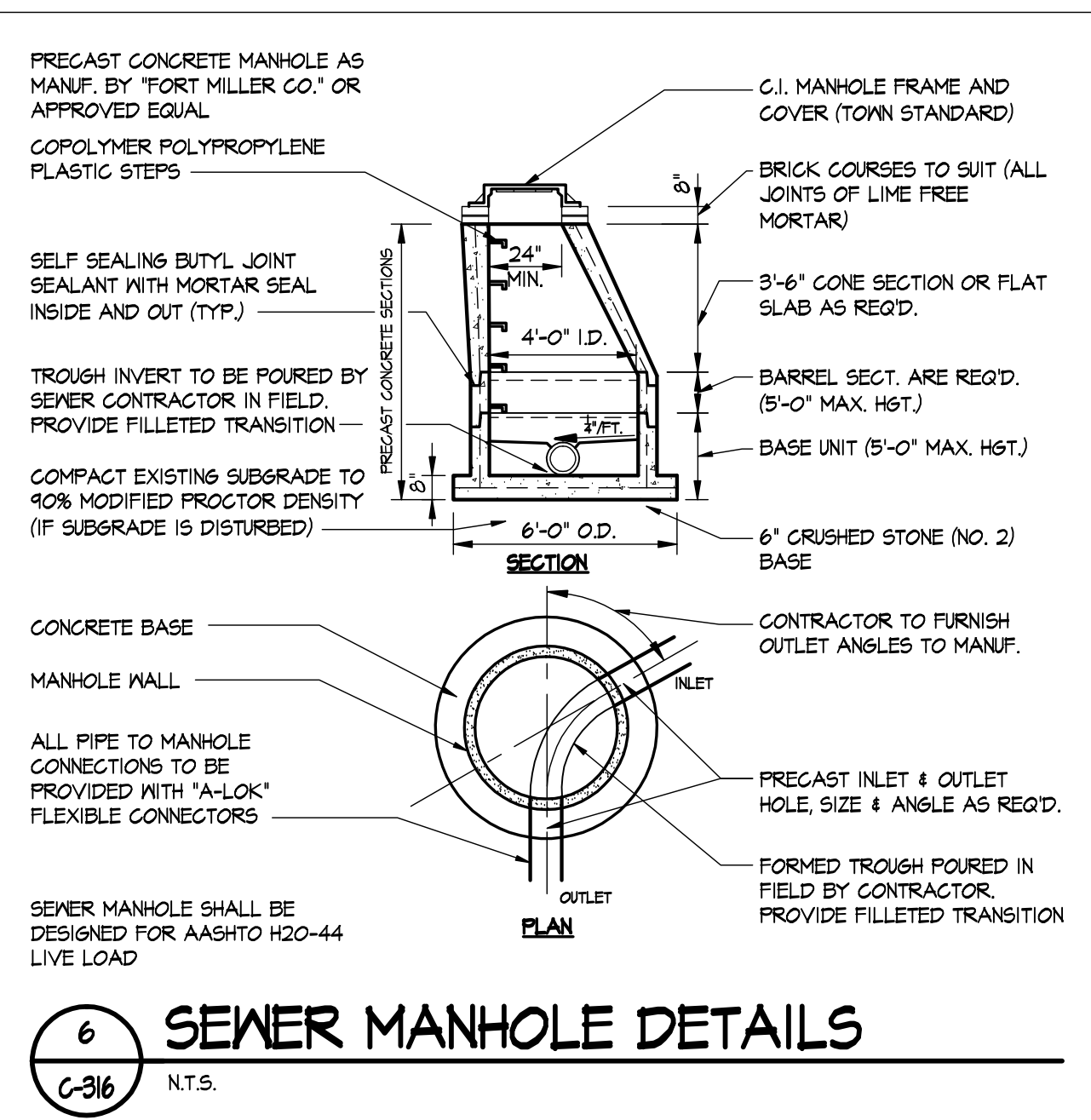
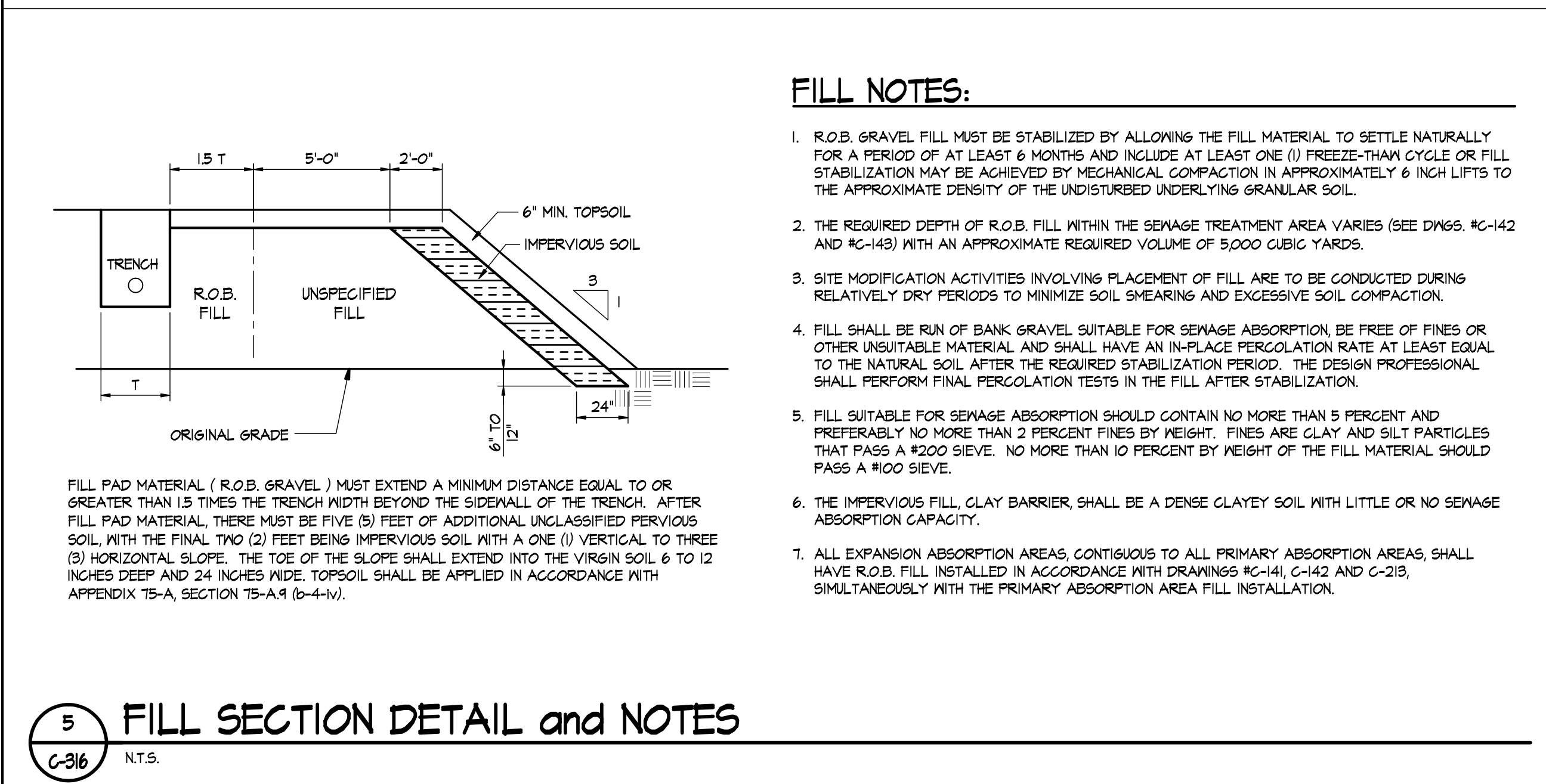
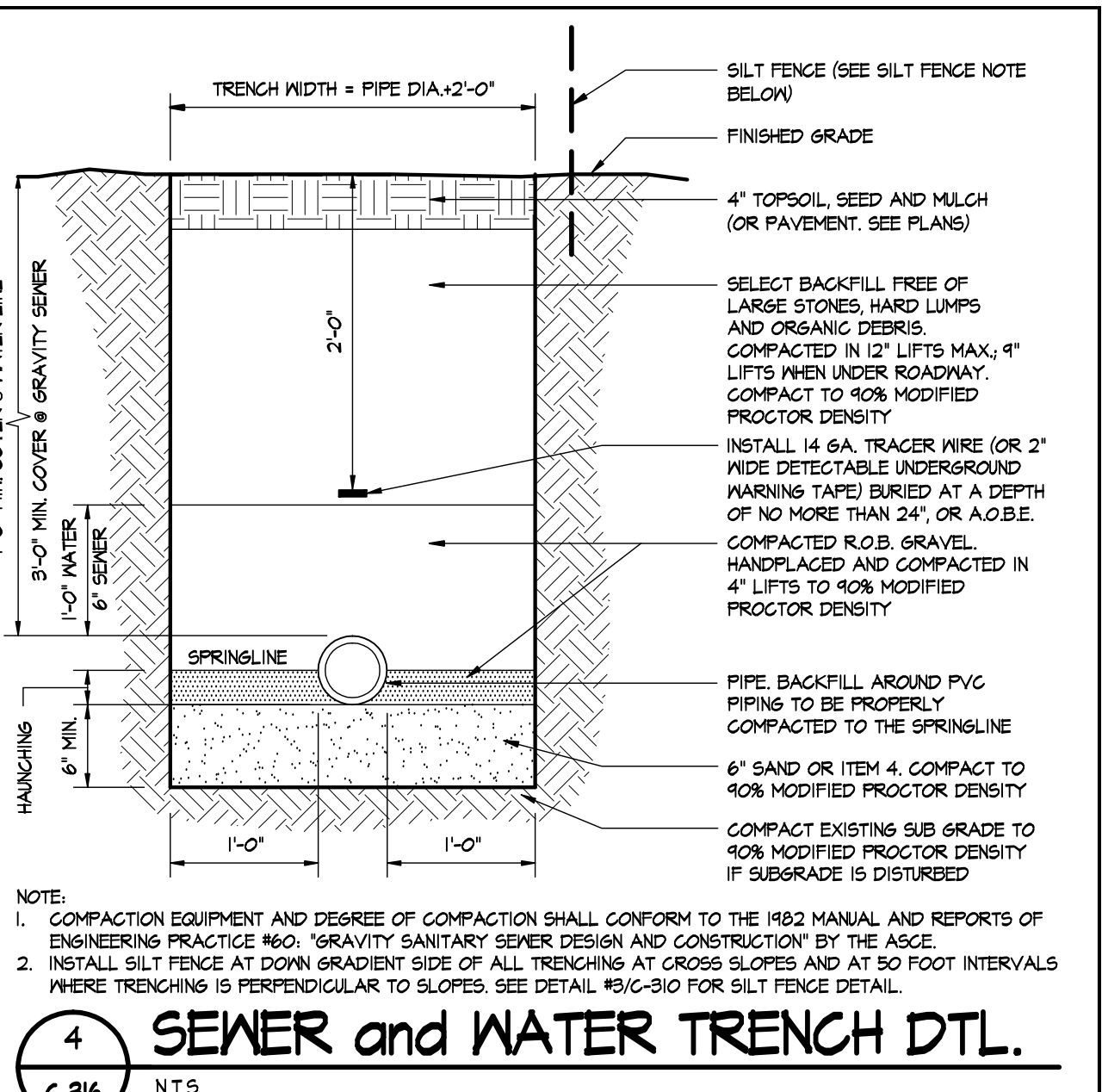
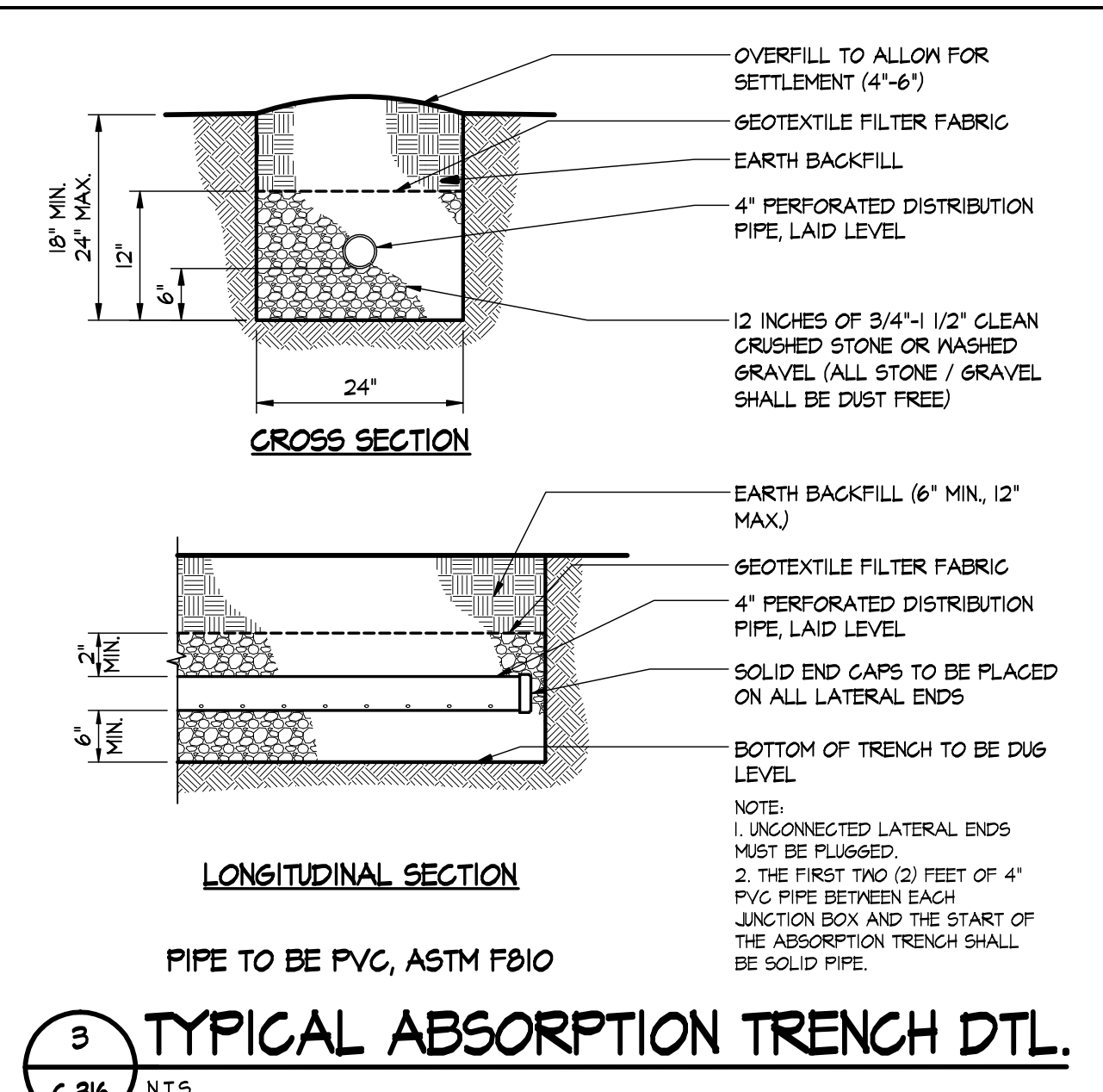
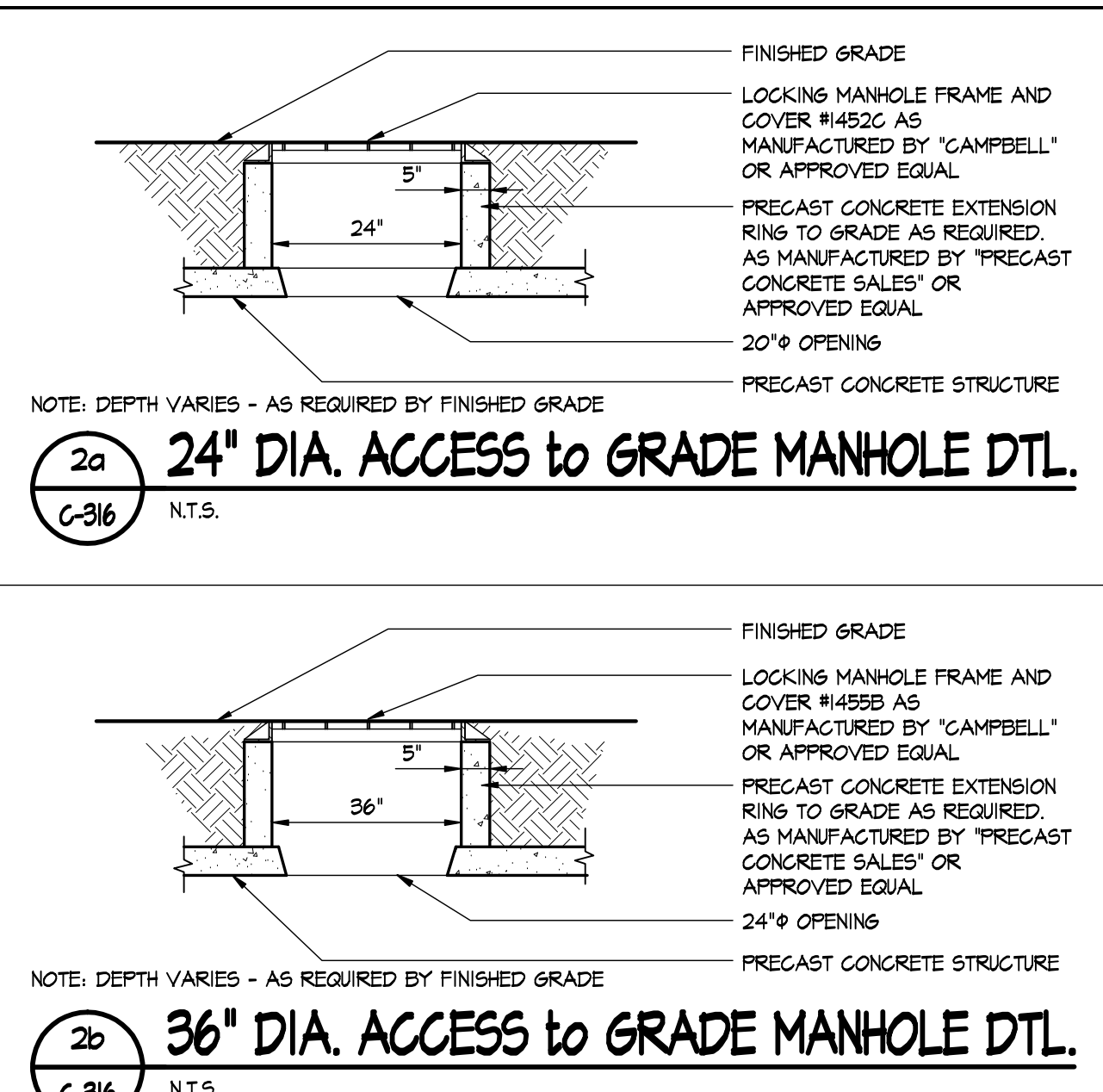
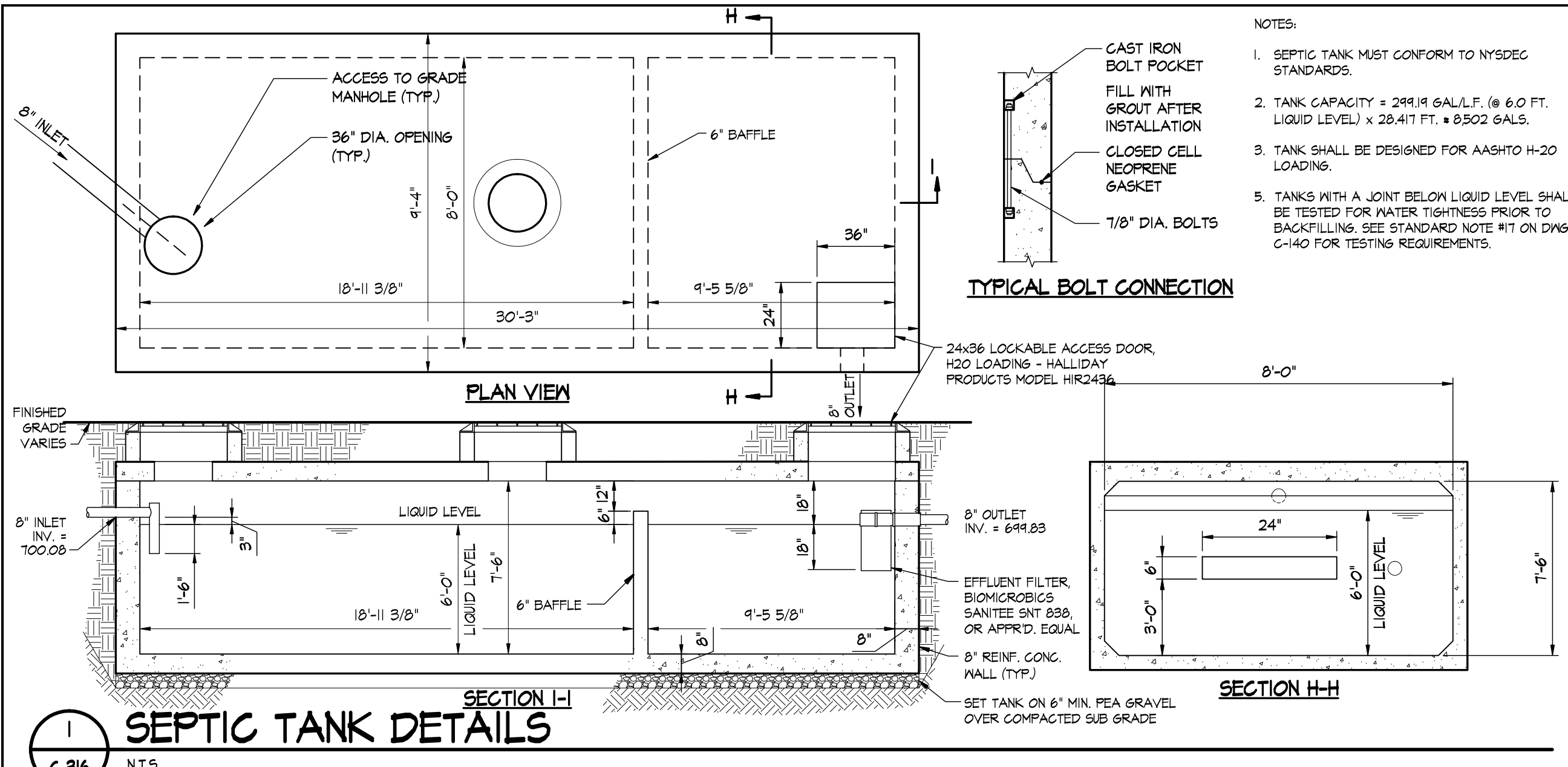
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OLD FORGE ESTATES
BALDWIN PLACE ROAD
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP 15.15-1-14

DATE: 12 APR 18
PROJECT MANAGER: PML
DRAWN BY: BJK
CHECKED BY: PML
SCALE: AS NOTED

DRAWING: DETAILS
PROJECT NUMBER: 8286
DRAWING NUMBER: C-315
SHEET 30 OF 34



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4 OLD ROUTE 6, BREWSTER, NEW YORK 10504
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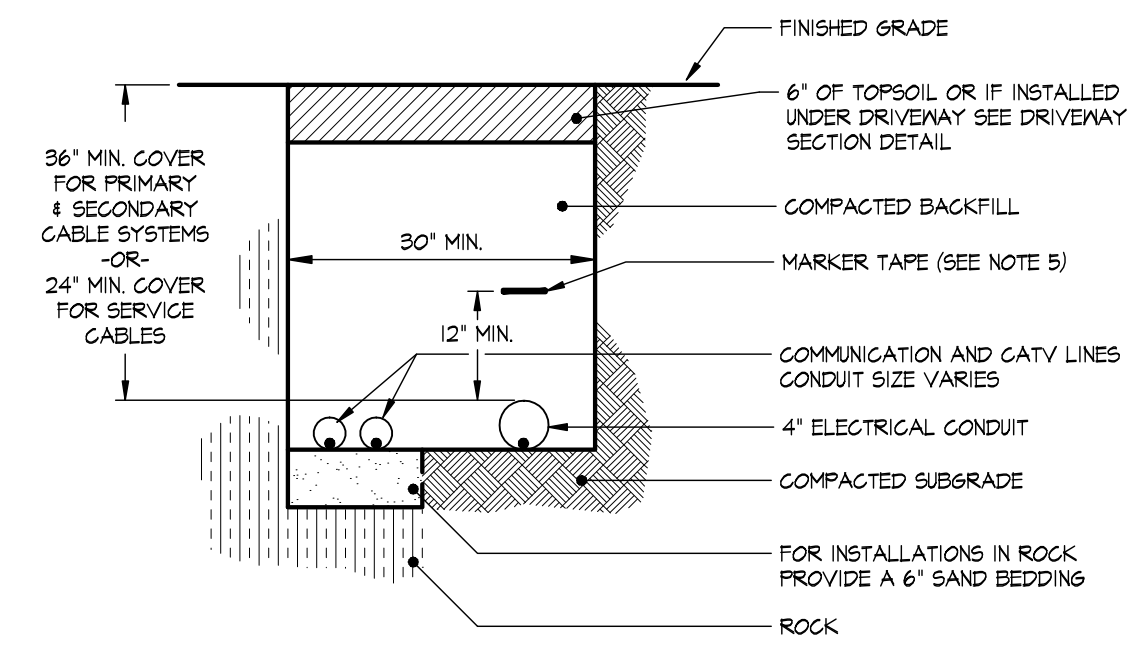
REVISIONS		PROJECT			
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
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PROJECT: PROPOSED SUBDIVISION PLAN PREPARED FOR:
OLD FORGE ESTATES
BALDWIN PLACE ROAD
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP 15.15-1-14

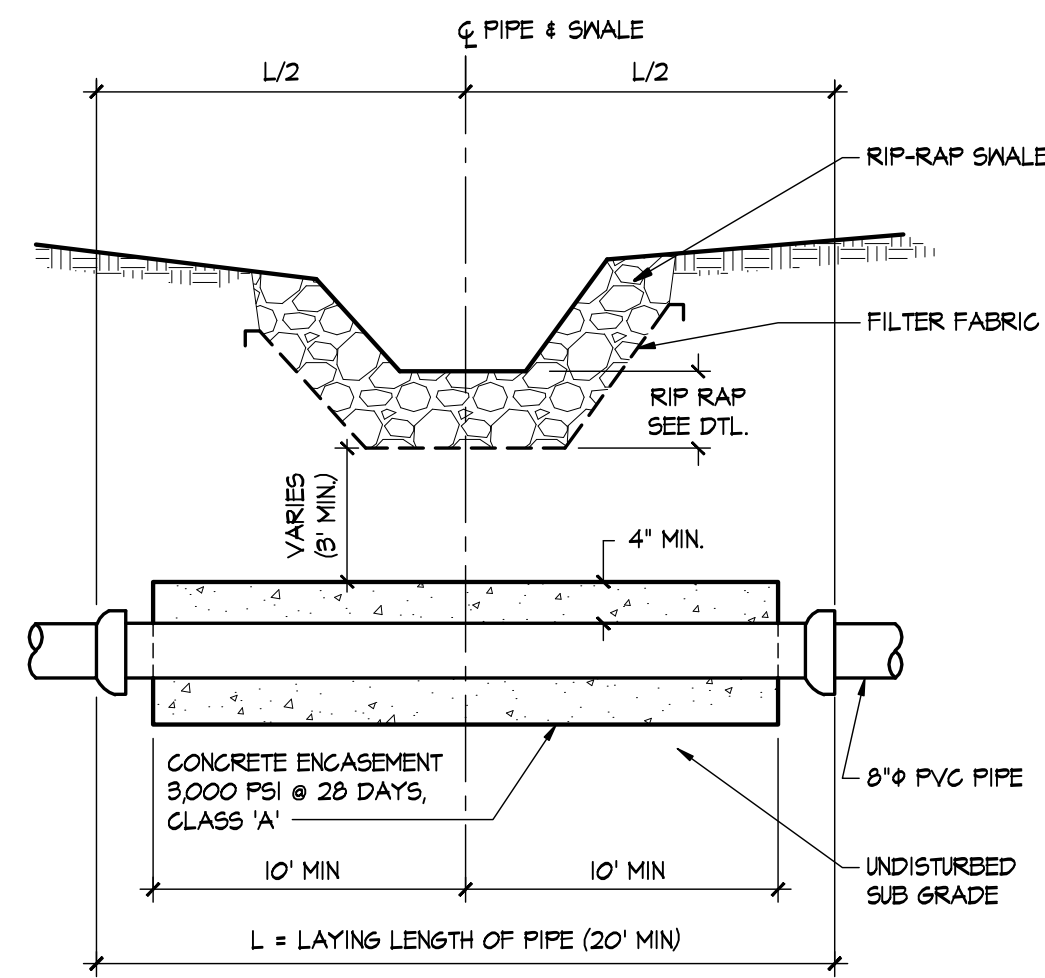
DATE: 12 APR 18
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DRAWN BY: BJK
CHECKED BY: PML
SCALE: AS NOTED

DRAWING: DETAILS
PROJECT NUMBER: 8286
DRAWING NUMBER: C-316
SHEET 31 OF 34

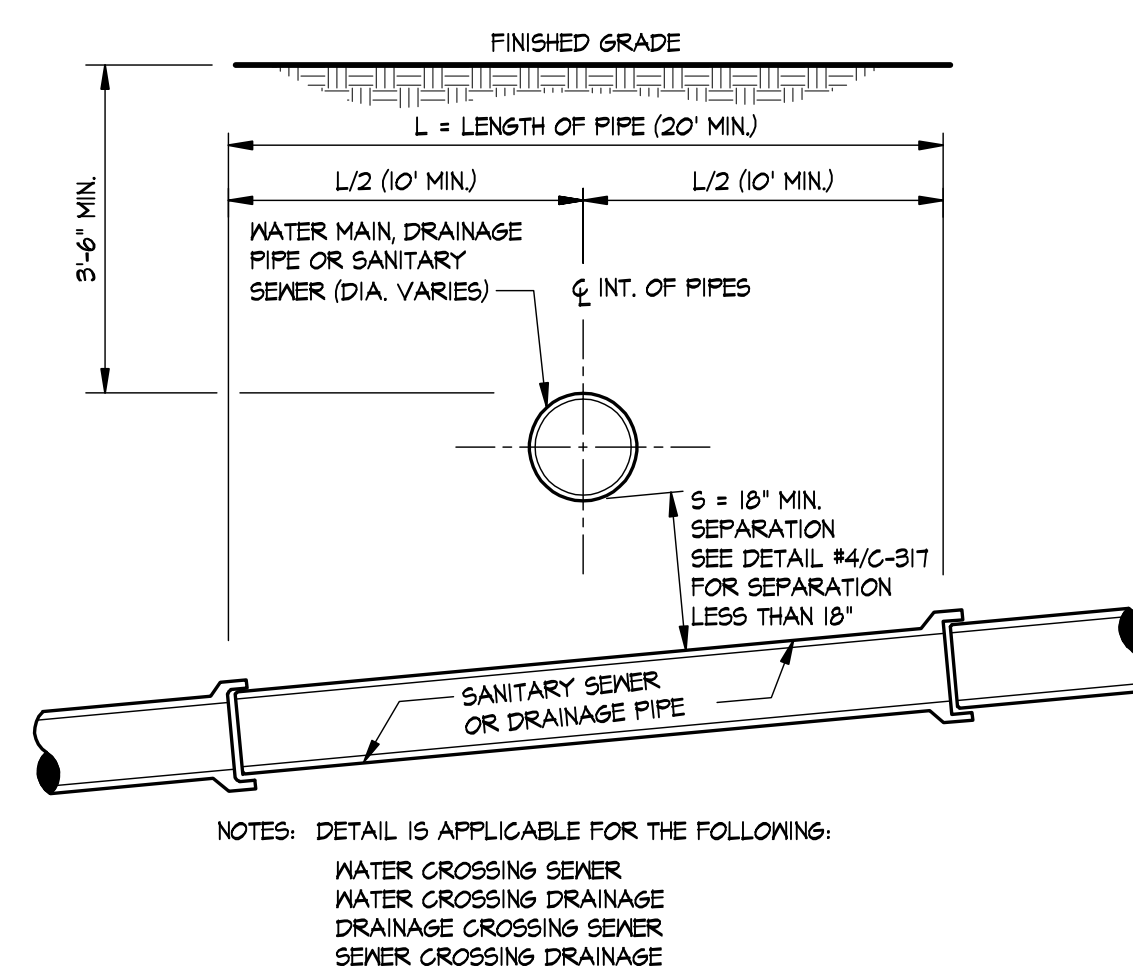
- NOTES:
- PER NEW YORK STATE LAW, THE CONTRACTOR SHALL CALL THE UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION (UFO) AT 1-800-462-7862 TWO (2) FULL DAYS PRIOR TO PERFORMING ANY EXCAVATION WORK.
 - PROVIDE P.V.C. CONDUIT WITH NYLON FILL CORD AS REQUIRED FOR EACH INDIVIDUAL UTILITY LINE. CONTRACTOR TO COORDINATE WITH INDIVIDUAL UTILITY COMPANIES THE DIAMETER OF CONDUIT REQUIRED.
 - CONTRACTOR TO COORDINATE WITH EACH INDIVIDUAL UTILITY COMPANY AND THE DESIGN ENGINEER, ALL REQUIRED INSPECTIONS.
 - MACHINE DIGGING SHALL STOP NOT LESS THAN 18 INCHES FROM VAULTS, FOUNDATIONS, EQUIPMENT, CABLES AND POLES. TRENCHING SHALL BE COMPLETED BY HAND THEREAFTER.
 - ALL ELECTRICAL BURIED CONDUITS SHALL BE IDENTIFIED BY A RED PLASTIC FILM MARKER TAPE, AS SPECIFIED BY THE UTILITY COMPANY. THE MARKER TAPE SHALL RUN DIRECTLY ABOVE THE ENTIRE LENGTH OF EACH CONDUIT SECTION AND SHALL HAVE A MINIMUM VERTICAL SEPARATION OF 12 INCHES.
 - A MINIMUM SEPARATION OF 30 INCHES SHALL BE MAINTAINED BETWEEN ELECTRICAL CONDUIT AND WATER SERVICE LINES. SEPARATION BETWEEN ELECTRICAL CONDUIT AND WATER MAIN SHALL BE 36 INCHES.
 - A MINIMUM SEPARATION OF 30 INCHES SHALL BE MAINTAINED BETWEEN ELECTRICAL CONDUIT AND GAS SERVICE LINES. JOINT TRENCHING IS NOT PERMITTED FOR MAIN GAS LINES.



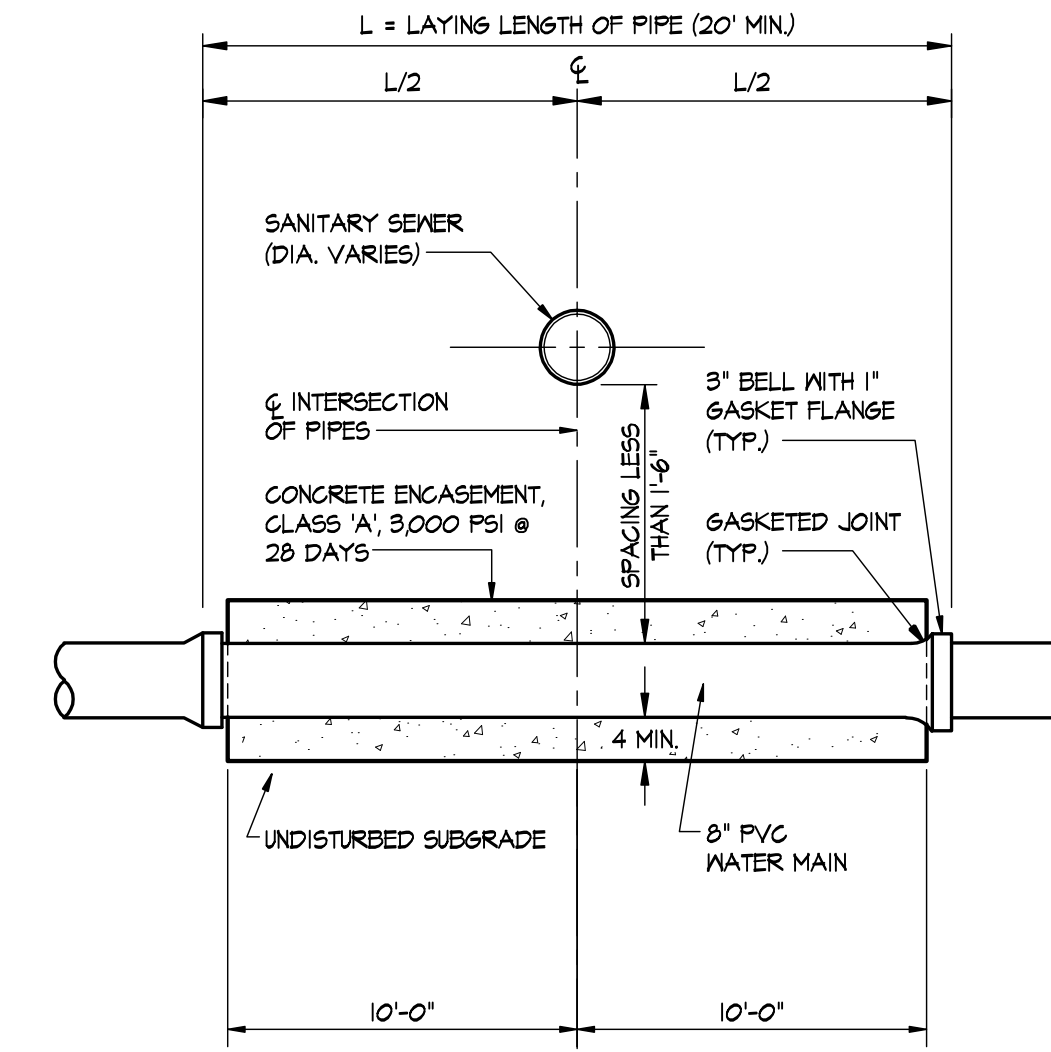
1 ELECTRIC/CABLE/TELCO TRENCH DTL.
N.T.S. C-317



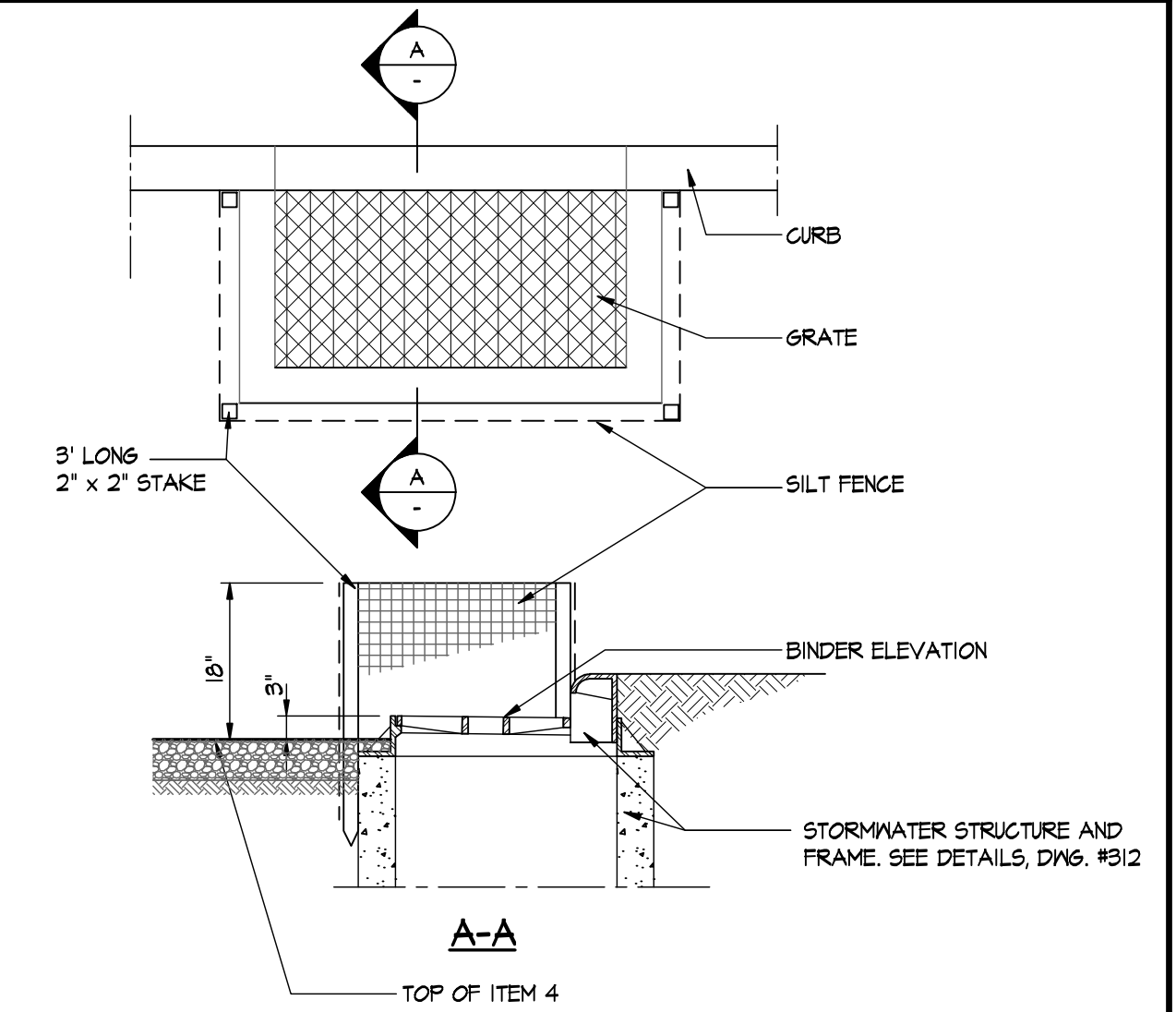
2 SWALE CROSSING SEWER PIPE DETAIL
N.T.S. C-317



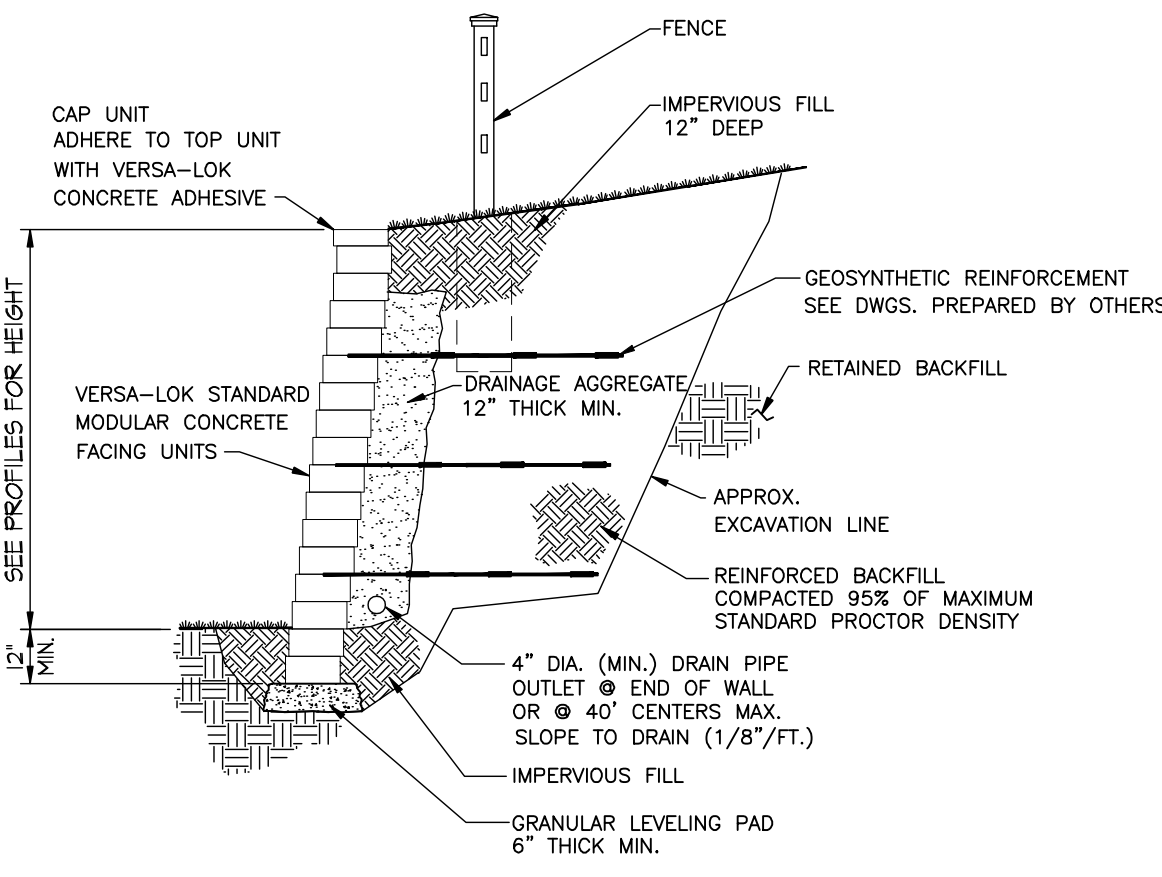
3 UTILITY PIPE CROSSING DETAIL
N.T.S. C-317
SEPARATION GREATER THAN OR EQUAL TO 18"



4 UTILITY CROSSING DETAIL
N.T.S. C-317
SEPARATION LESS THAN 18"



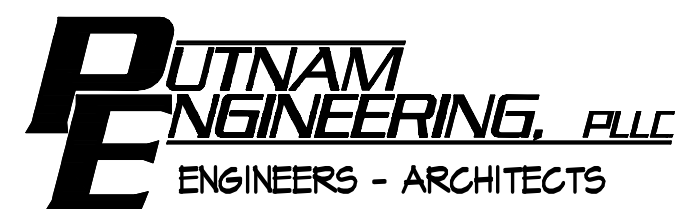
5 INSTALLATION OF STORMWATER STRUCTURES IN PAVEMENT DETAIL
N.T.S. C-317



NOTE: RETAINING WALLS SHALL BE DESIGNED AND CERTIFIED BY A NYS LICENSED PROFESSIONAL ENGINEER BY THE RETAINING WALL MANUFACTURER.

6 TYP. REINF. RETAINING WALL SECTION
N.T.S. C-317

W:\PUTNAMSERVE\Projects\PROJECTS\Civil\2018-041 Fogg Estates Cluster Subdivision\2018 C-317 Details.dwg 4/12/2018 1:20:29 PM



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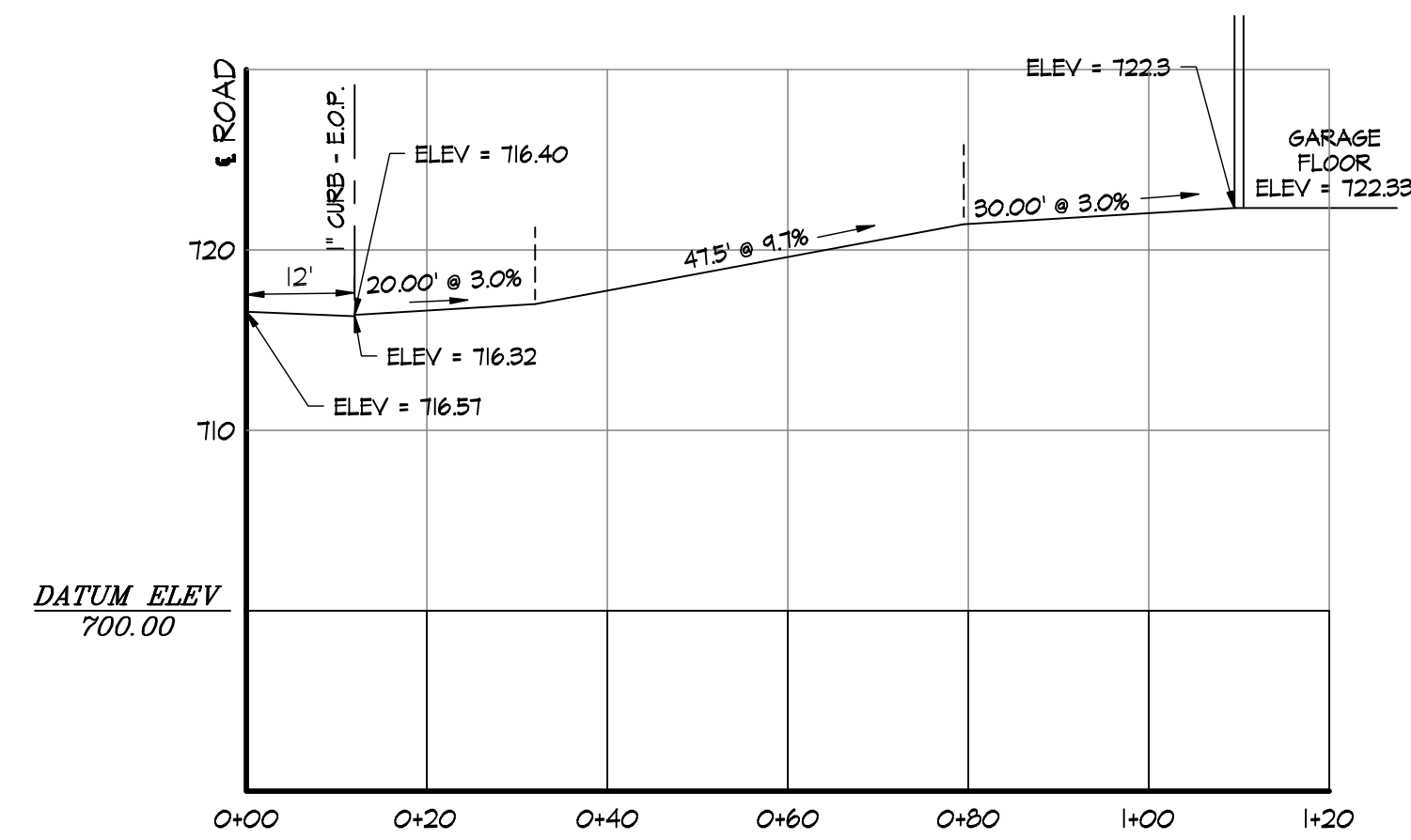
REVISIONS		
NO.	DATE	DESCRIPTION

PROJECT
PROPOSED SUBDIVISION PLAN PREPARED FOR:
OLD FORGE ESTATES
BALDWIN PLACE ROAD
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP 75.15-1-14

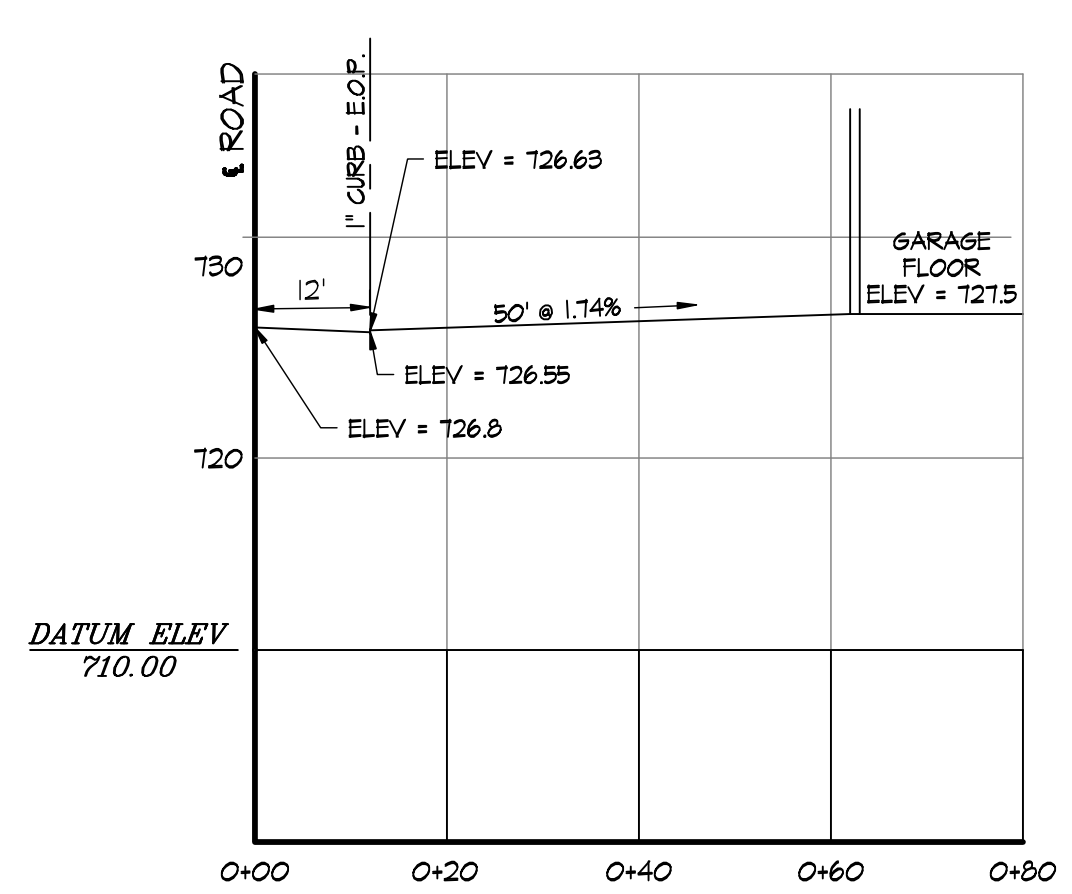
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DATE	12 APR 18
PROJECT MANAGER	FML
DRAWN BY	BJK
CHECKED BY	FML
SCALE	AS NOTED

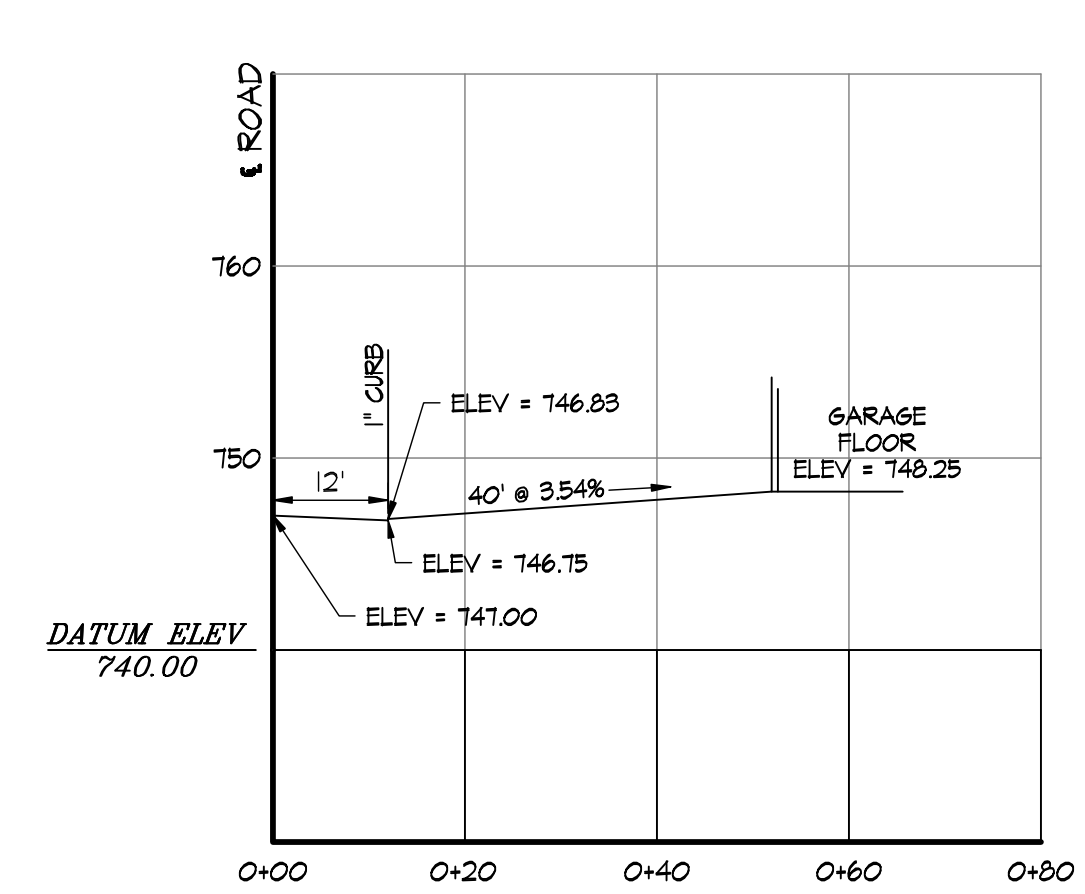
DRAWING	DETAILS
PROJECT NUMBER	8286
DRAWING NUMBER	C-317
SHEET	31 OF 31



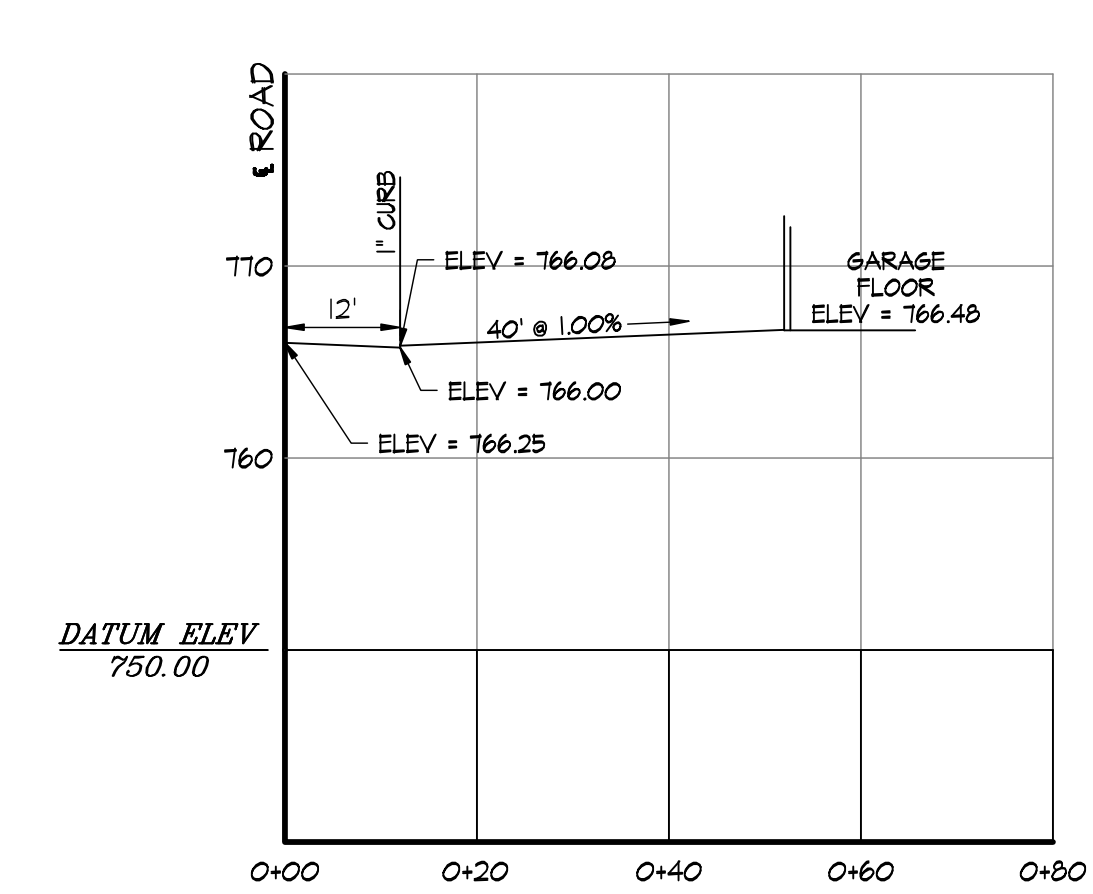
LOT 1 DRIVEWAY



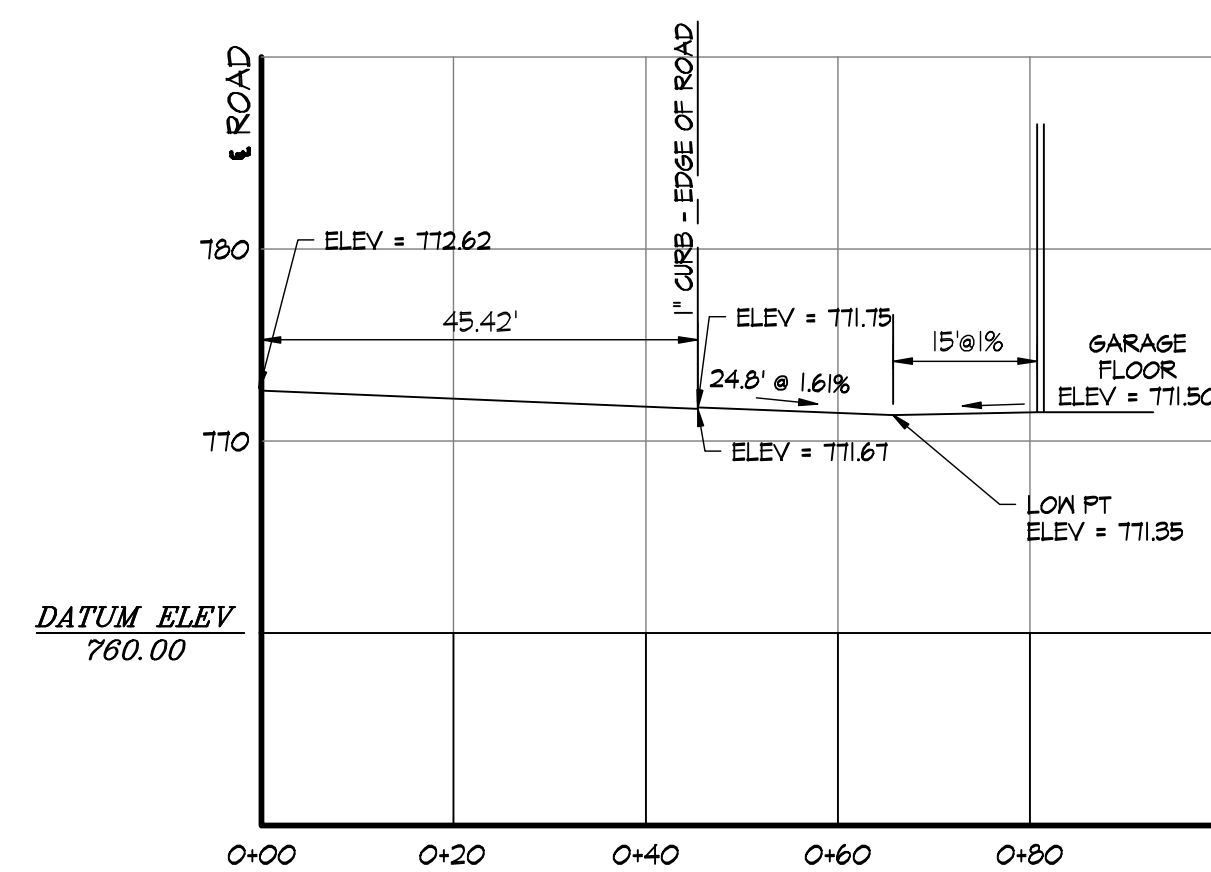
LOT 2 DRIVEWAY



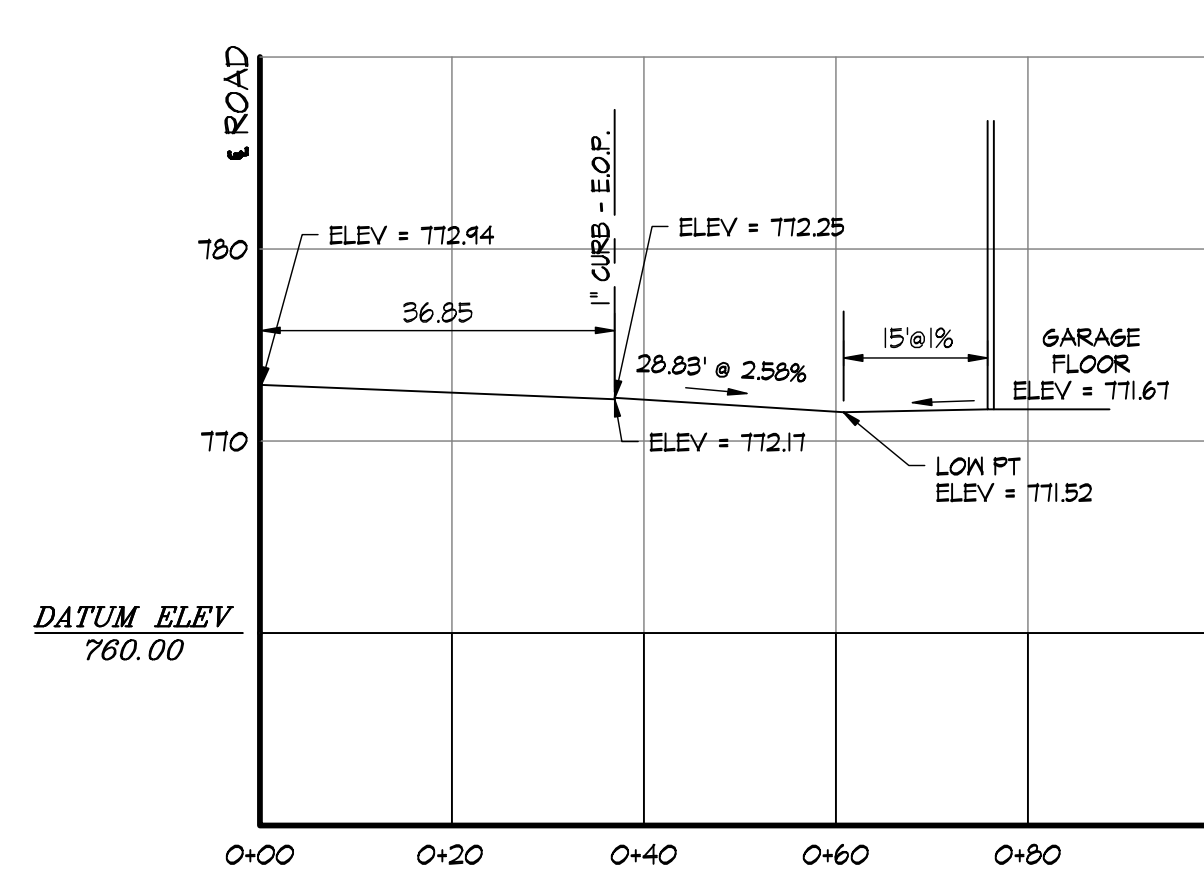
LOT 3 DRIVEWAY



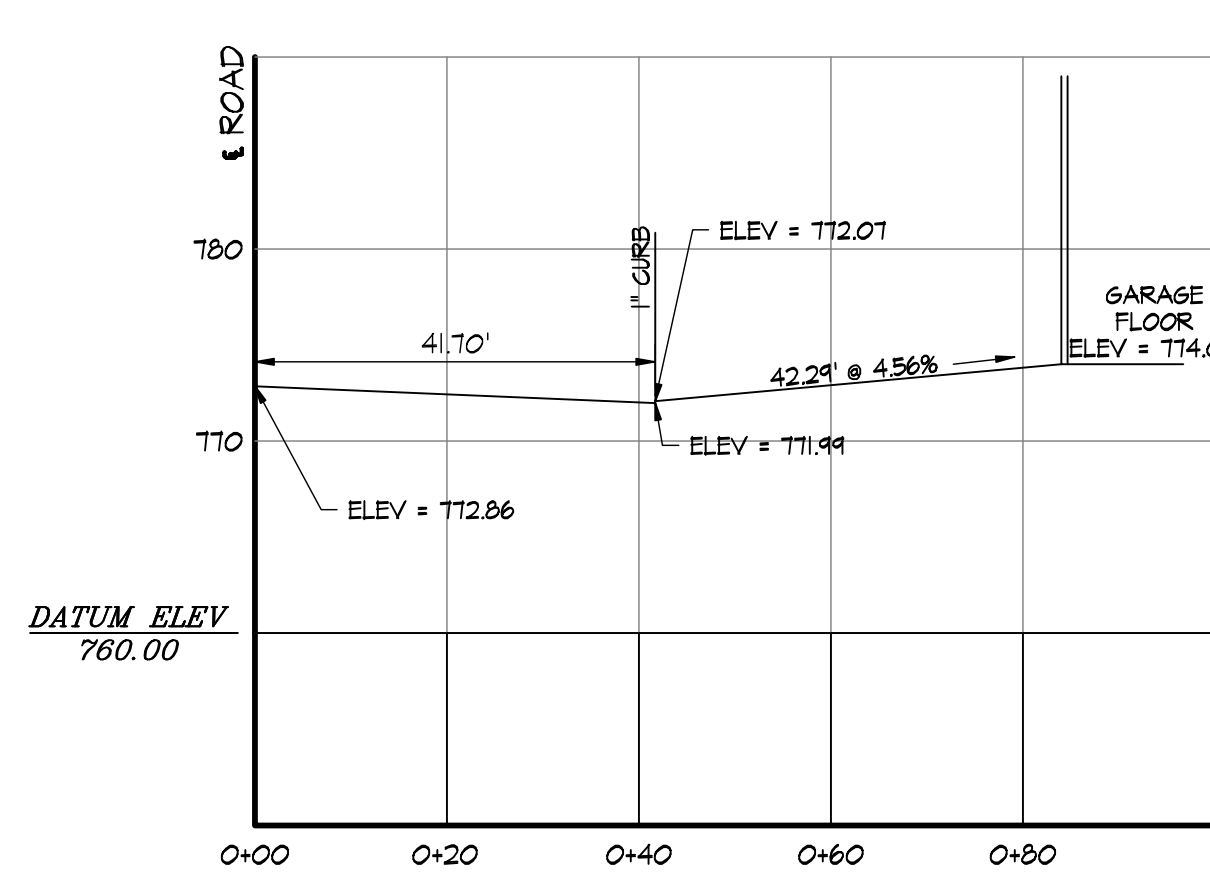
LOT 4 DRIVEWAY



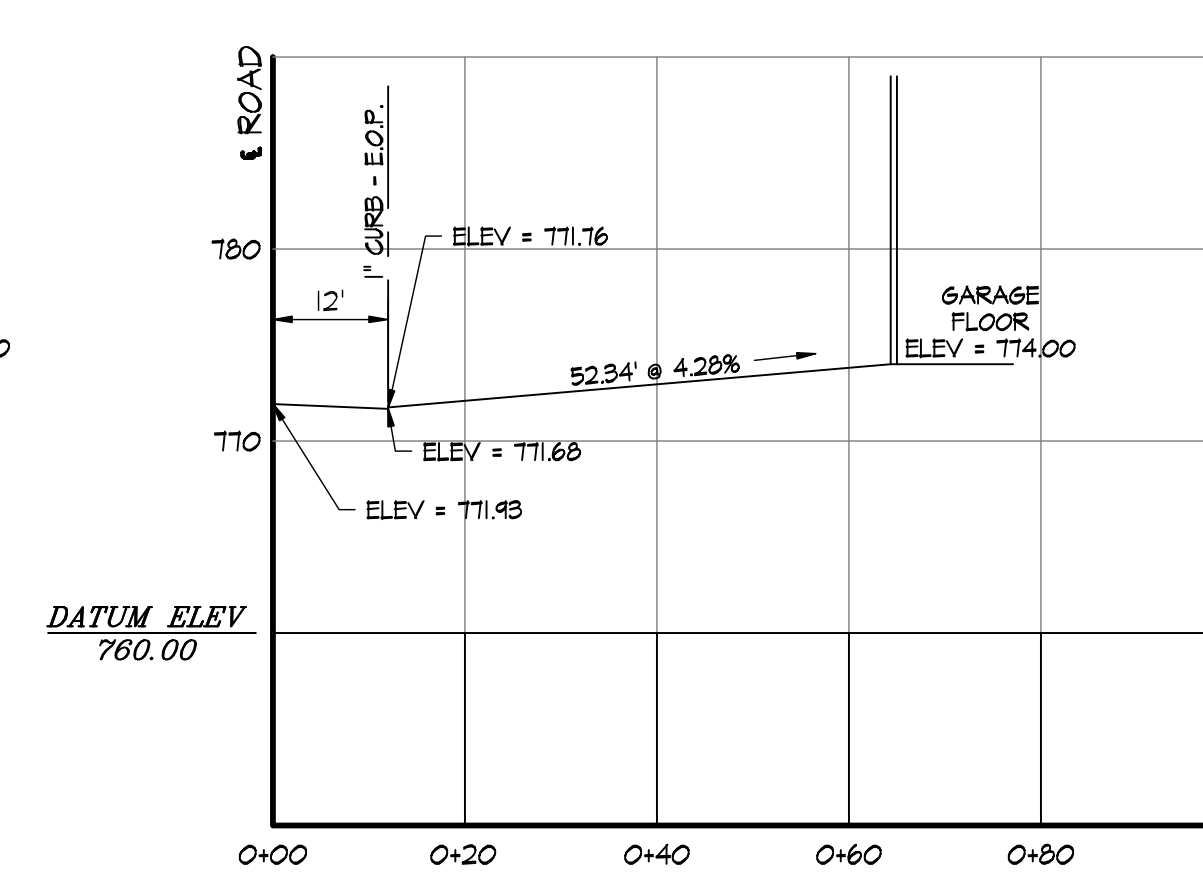
LOT 5 DRIVEWAY



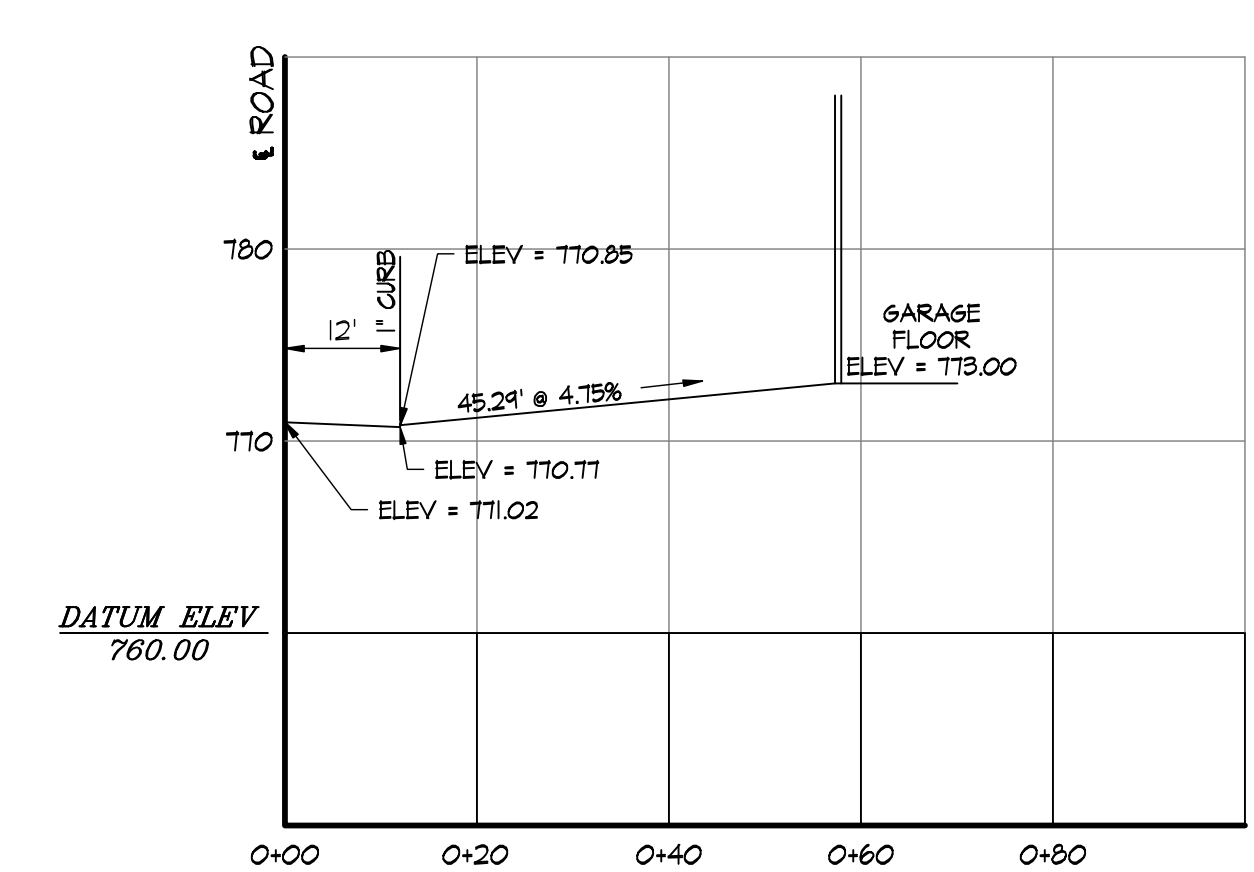
LOT 6 DRIVEWAY



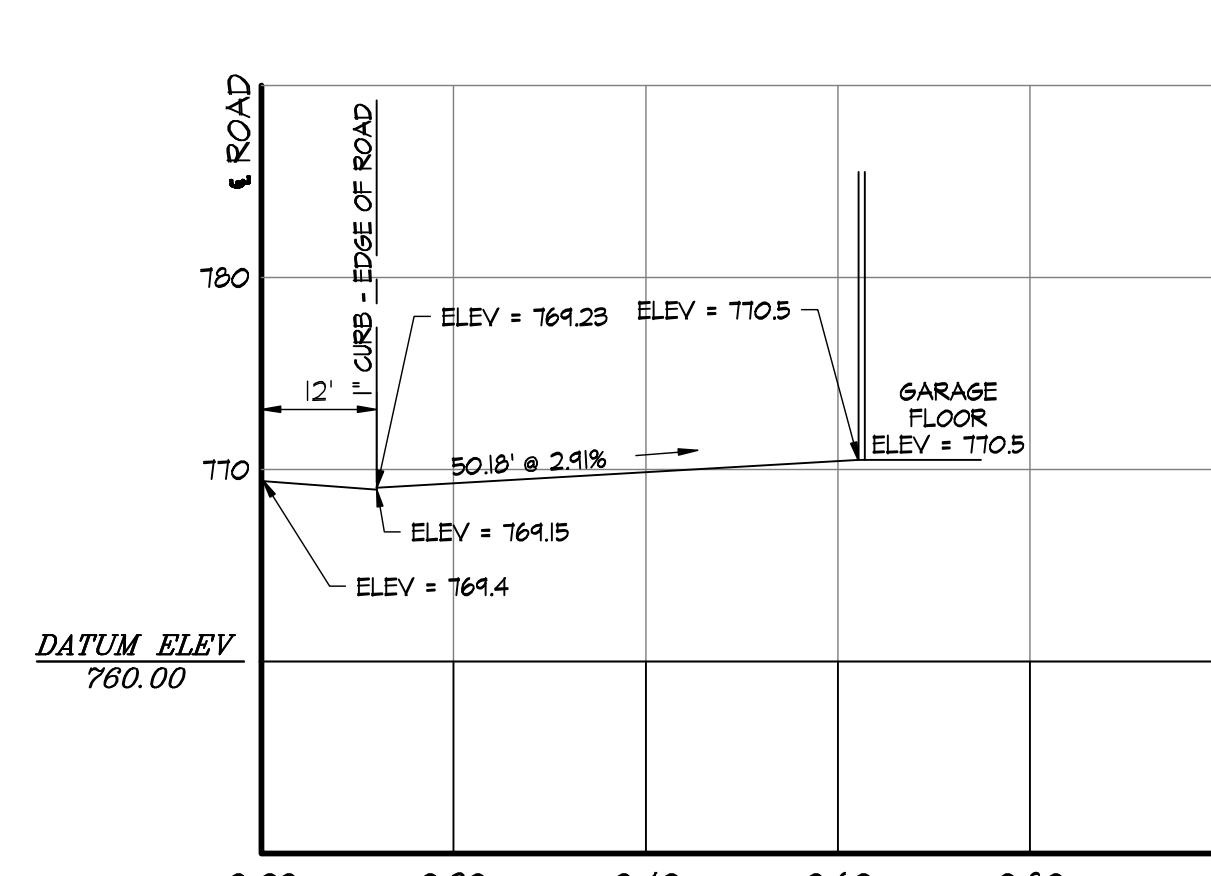
LOT 7 DRIVEWAY



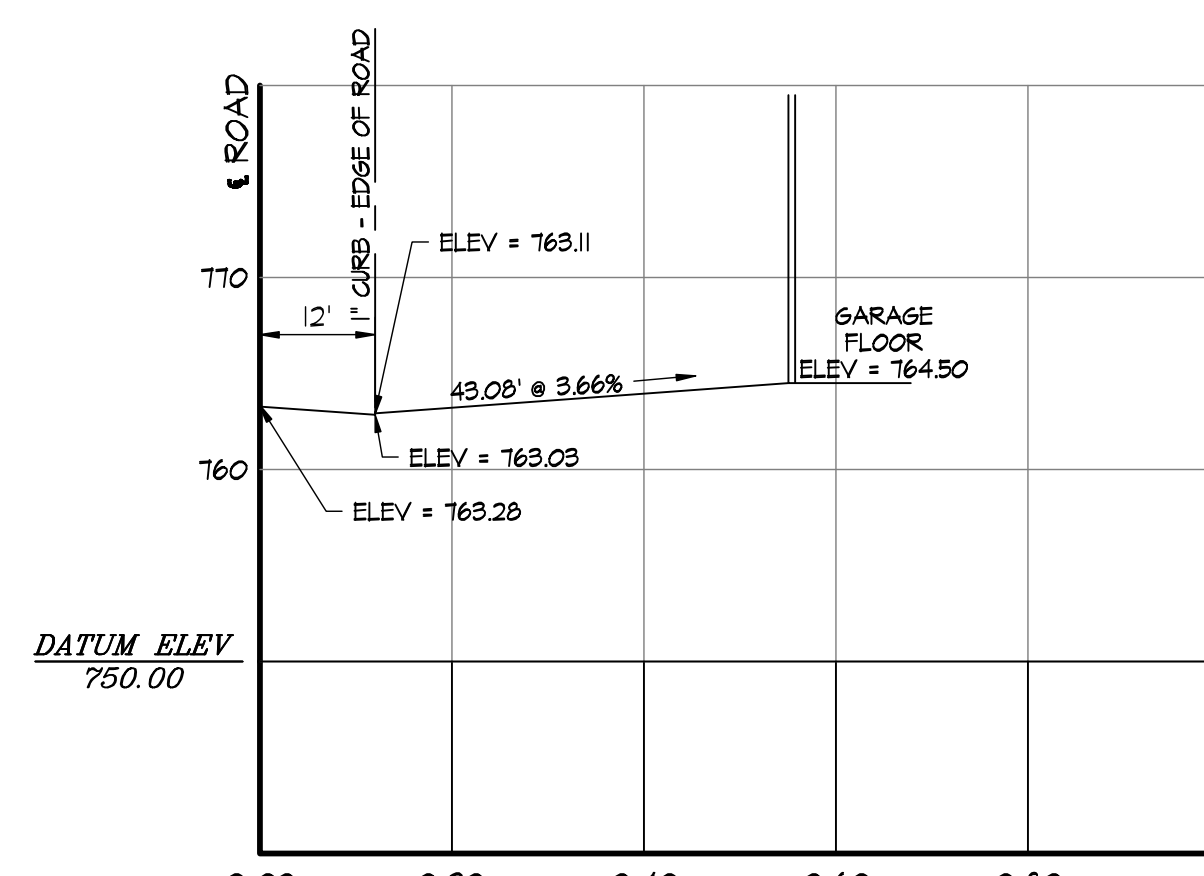
LOT 8 DRIVEWAY



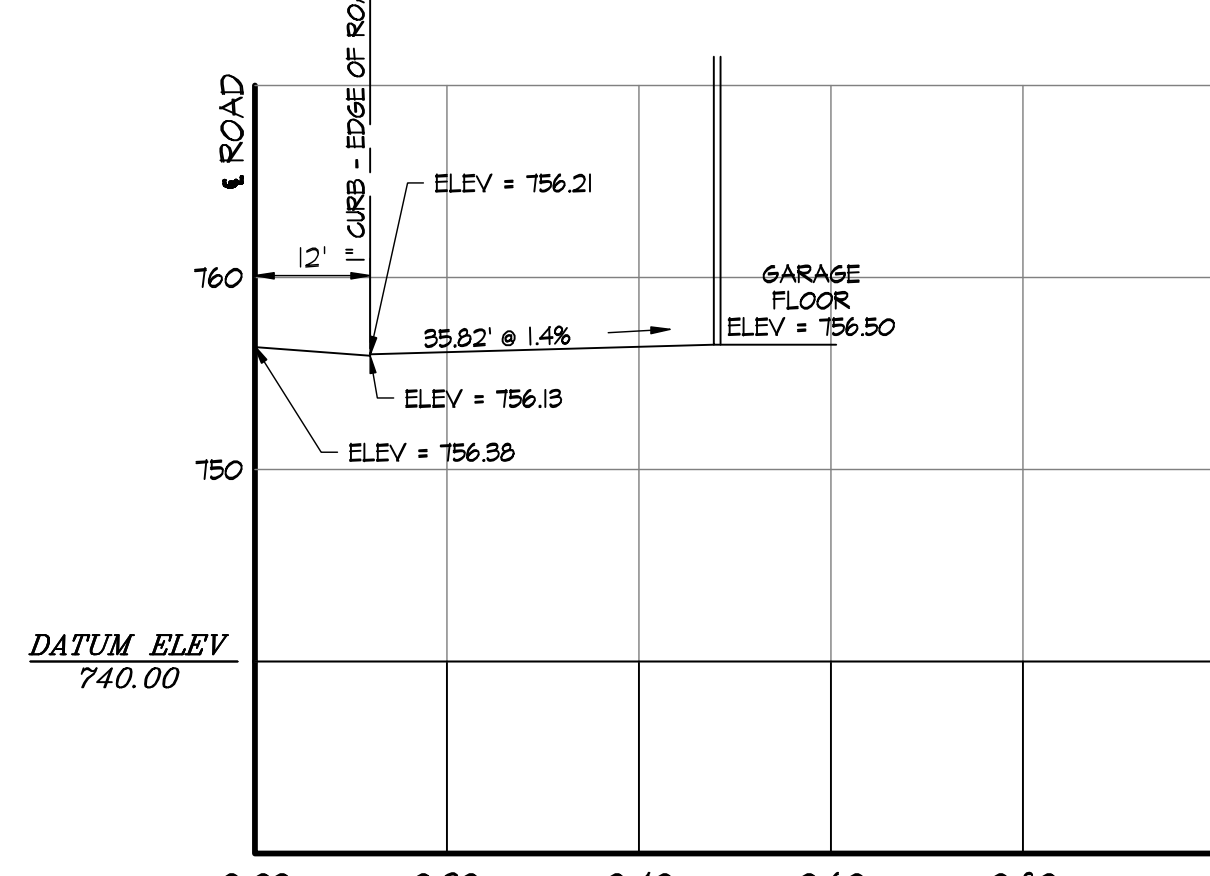
LOT 9 DRIVEWAY



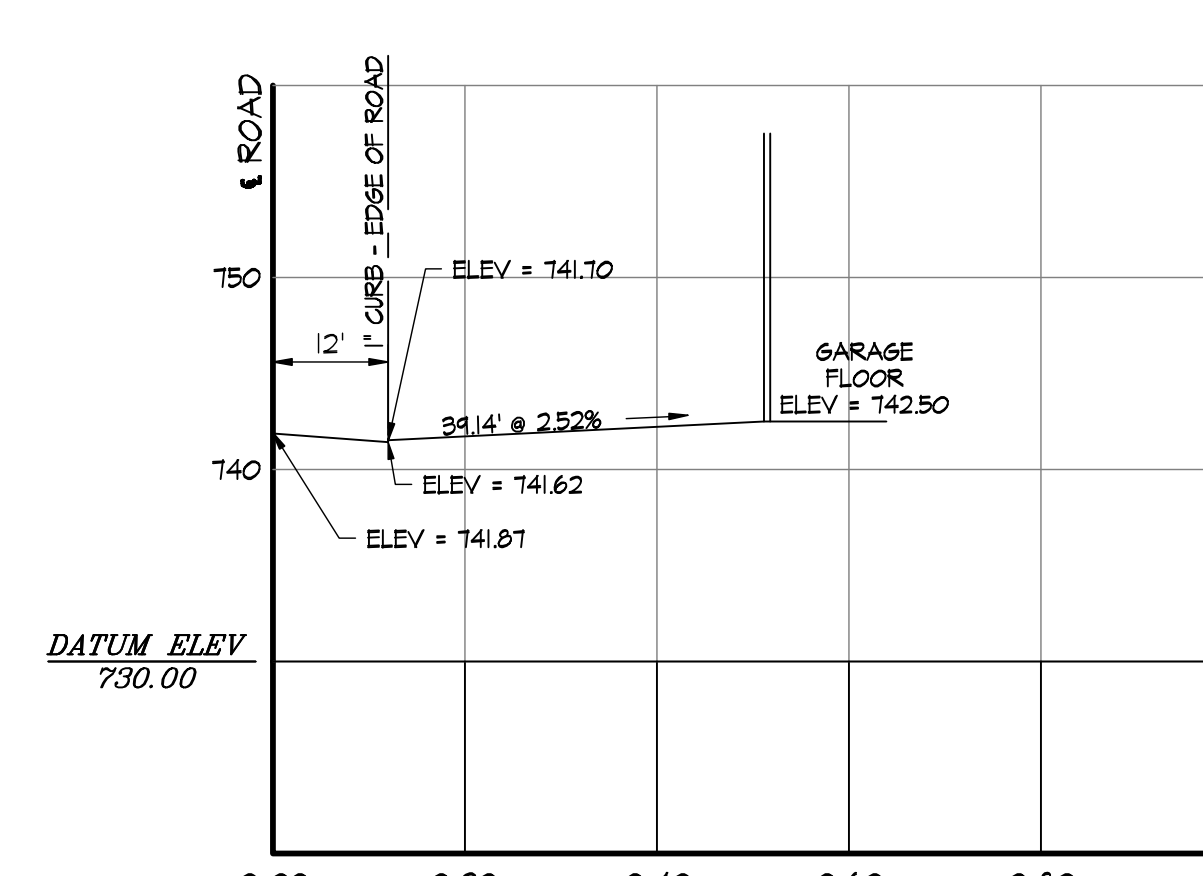
LOT 10 DRIVEWAY



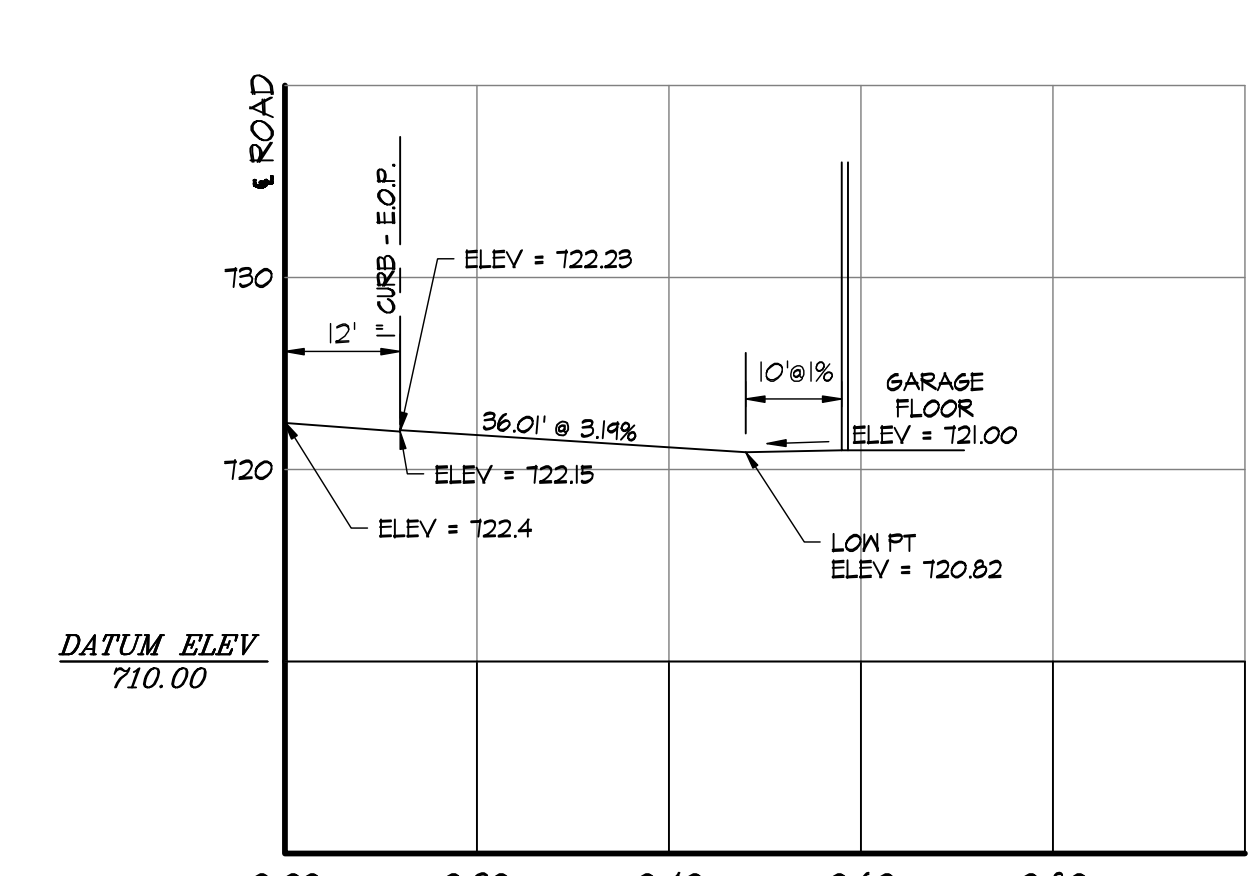
LOT 11 DRIVEWAY



LOT 12 DRIVEWAY



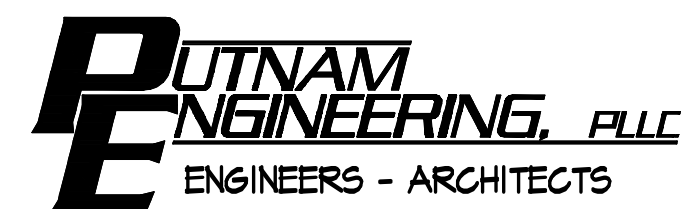
LOT 13 DRIVEWAY



LOT 14 DRIVEWAY

DRIVEWAY PROFILES

SCALE: HORIZ. 1" = 20', VERT. 1" = 10'



4 OLD ROUTE 6, BREWSTER, NEW YORK 10501
(845) 279-6789 FAX (845) 279-6769
● PUTNAM ENGINEERING PLLC 2018

PURSUANT TO NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 7209 SUBDIVISION 2, "IT IS A VIOLATION OF THIS LAW FOR ANY PERSON UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION."

REVISIONS		PROJECT			
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	04 NOV 18	REV. PER BI, TE, TP COMMENTS			
2	02 OCT 18	REV. PER TE COMMENTS			
3	11 MAY 20	REV. PER TE COMMENTS			

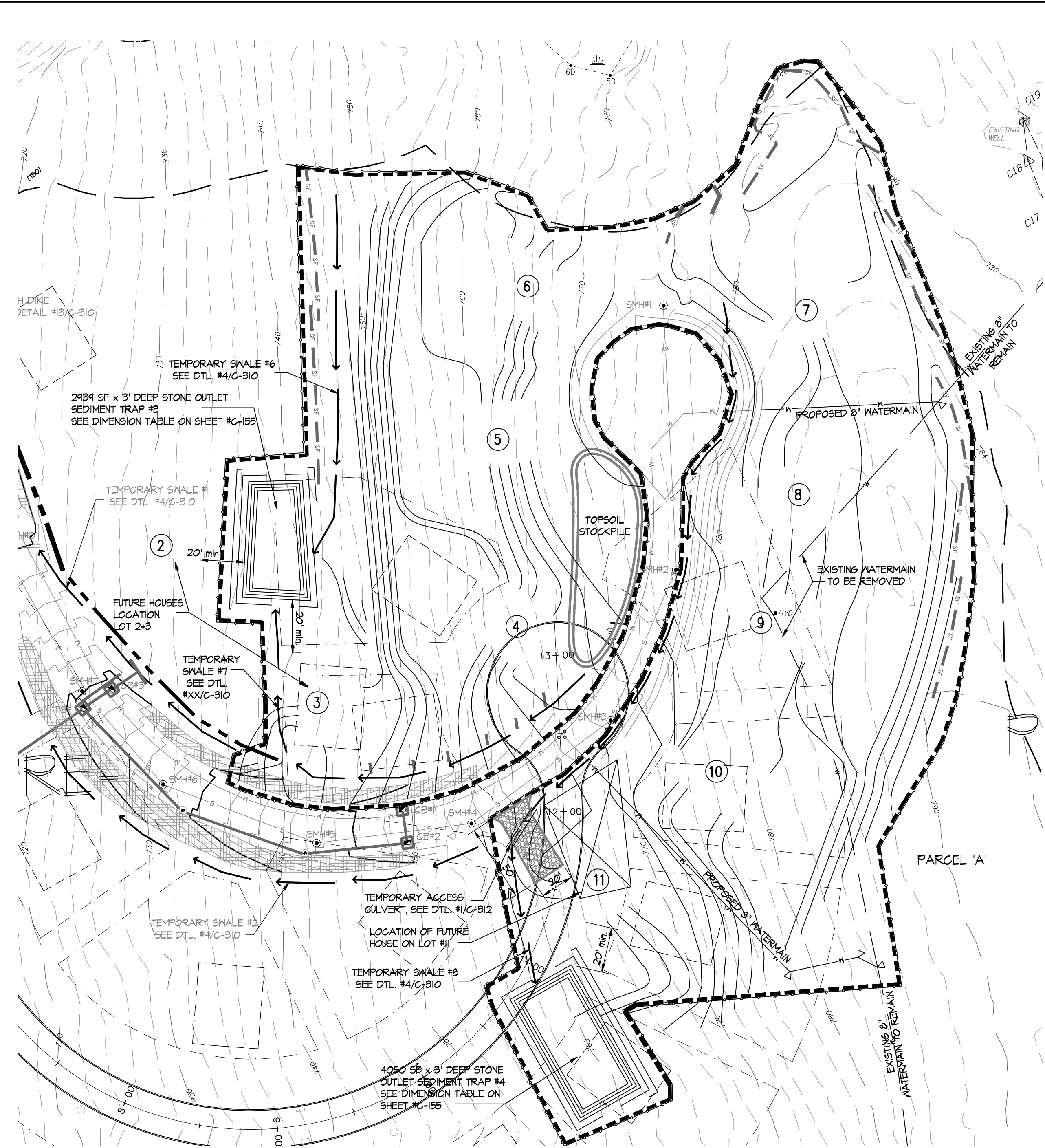
PROPOSED SUBDIVISION PLAN PREPARED FOR:
OLD FORGE ESTATES
BALDWIN PLACE ROAD
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP 75.15-1-14

[Signature]

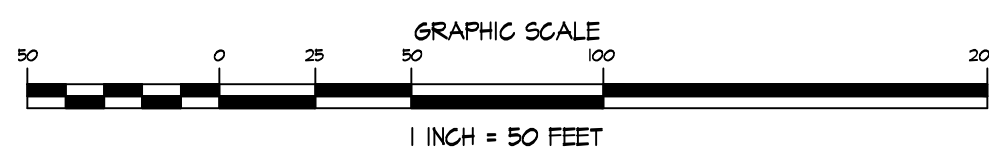
DATE: 12 APR 18
PROJECT MANAGER: PML
DRAWN BY: BJK
CHECKED BY: PML
SCALE: AS NOTED

DRAWING: DRIVEWAY PROFILES

PROJECT NUMBER: 8286
DRAWING NUMBER: C-410
SHEET 33 OF 34

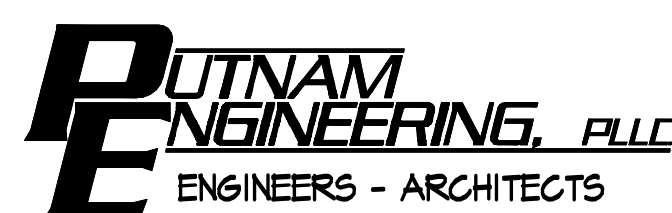


WATER MAIN RELOCATION PLAN



WATER MAIN RELOCATION SEQUENCE:

1. THE WATER MAIN IN THE SUBDIVISION ROAD WILL HAVE BEEN INSTALLED AS PART OF THE ROAD CONSTRUCTION.
2. THE CONTRACTOR WILL FIELD VERIFY THE EXISTING LOCATION OF THE WATER MAIN THAT IS CURRENTLY CROSSING LOTS 7, 8, 9 AND 10. TEST PITS, HAND DUGS WILL BE PERFORMED TO EXPOSE LOCATION OF THE TIE INS.
3. CONTRACTOR WILL EXCAVATE OUT 20' WIDE STRIP ON LAND STRADDLING LOT 7 AND 8. THE CONTRACTOR WILL ALSO EXCAVATE A 20' WIDE STRIP ALONG LOTS 10 AND 11 AS WELL AS THAT PORTION THAT CROSSES PARCEL A.
4. CONTRACTOR WILL INSTALL THE BALANCE OF NEW WATER MAIN FROM THE SUBDIVISION ROAD TO THE TIE IN POINTS.
5. THE CONTRACTOR WILL PRESSURE TEST THE NEW WATER MAIN AND DISINFECT THE LINE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE PUTNAM COUNTY HEALTH DEPARTMENT.
6. AFTER RECEIVING SATISFACTORY TEST RESULTS THE CONTRACTOR WILL NOTIFY THE WATER DISTRICT HOMEOWNERS WHO WILL BE AFFECTED BY THE SHUT DOWN OF THE WATER SYSTEM BY POSTING SIGNS THREE DAYS IN ADVANCE OF THE CHOSEN DATE.
7. THE WATER MAIN WILL BE TURNED OFF AT THE NEAREST VALVES ON BOTH SIDES OF THE PROPOSED WORK TO ISOLATE THE AREA.
8. CUT WATERMAIN AT TIE IN POINTS. CONNECT NEW TO OLD WITH 45° BEND AND ASSOCIATED PIPING AND THRUST BLOCKS.
9. OPEN VALVE ON THE 'FEED' LINE AND OPEN FLUSHING HYDRANT IN SUBDIVISION ROAD.



4 OLD ROUTE 6, BREWSTER, NEW YORK 10504
(845) 274-6789 FAX (845) 274-6769
● PUTNAM ENGINEERING PLLC 2018

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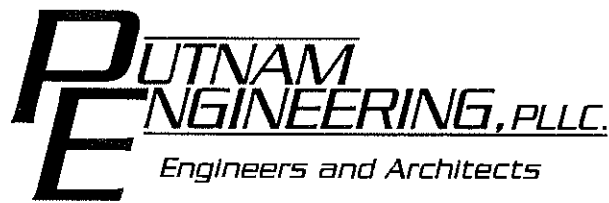
REVISIONS					
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	04 NOV 18	REV. PER BI, TE, TP COMMENTS			
2	02 OCT 18	REV. PER TE COMMENTS			
3	11 MAY 20	REV. PER TE COMMENTS			

PROJECT
PROPOSED SUBDIVISION PLAN PREPARED FOR:
OLD FORGE ESTATES
BALDWIN PLACE ROAD
TOWN of CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP 15.15-1-14

DATE
12 APR 18
PROJECT MANAGER
PML
DRAWN BY
BJK
CHECKED BY
PML
SCALE
AS NOTED

DRAWING
WATER MAIN RELOCATION PLAN

PROJECT NUMBER
8286
DRAWING NUMBER
C-420
SHEET 34 OF 34



October 5, 2020

Mr. Craig Paeprer, Chairman
Town of Carmel Planning Board
60 McAlpin Avenue
Mahopac, NY 10541

Re: Itzla 2 Lot Subdivision
9 Mechanic Street
TM 55.14-1-6

Dear Chairman Paeprer and Members of the Board,

The above project last appeared before the Board on January 27, 2016, at which time a public hearing was held for the proposed two (2) lot subdivision located at 9 Mechanic Street. The public hearing was opened and closed without there being any public comment. I have attached the meeting minutes to refresh everyone's mind.

After the public hearing, the project went cold as several personal issues arose which the applicants had to address and which in essence placed this project on the back burner.

At this time the Itzlas are ready to move forward and complete what they started. We met with the Mr. Franzetti, Mr. Carnazza and Mr. Cleary to review and discuss the status of the project and the steps left to complete.

In response to the Town Engineer's January 25, 2016 comments, we offer the following:

I. General Comments

1. Attached is a copy of the letter we sent to the Carmel Fire Department on May 5, 2014 as requested.
2. We acknowledge that the Town Highway Department will need to issue a driveway permit prior to the issuance of a building permit.
3. The project entails disturbance of approximately 20,000 square feet in total. This is the total disturbance created on lots 1 and 2. A N.O.I. will be prepared and submitted to the Town Engineer's office along with the MS-4 form in order to file for stormwater coverage under N.Y.S.G.P.-0-20-001.
4. The N.Y.C.D.E.P. is not an involved agency as we do not trigger any thresholds that would make this fall under their review.
5. Noted
6. Noted

L1930

We would like to point out to the Board that the pool located on lot #1 was moved so that it now complies with the setbacks that are required.

Sincerely,

PUTNAM ENGINEERING, PLLC

A handwritten signature in black ink, appearing to read 'Paul M. Lynch', written over a horizontal line.

Paul M. Lynch, P.E.

PML/rrm

Attachments

L1930

PUTNAM ENGINEERING, PLLC. Engineers and Architects

4 OLD ROUTE 6, BREWSTER, NEW YORK 10509 • (845) 279-6789 • FAX (845) 279-6769

500' ADJOINERS

LITTLE POND MANOR HOMEOWNERS	55-2-48	MILETTI	55-14-1-7.2
LIBERTY MANAGEMENT OF NEW YORK	55-10-1-11	PALLADINO	55-14-1-7.3
CARLO	55-10-1-18	KUSHNIR	55-14-1-8.1
CAPUTO	55-10-1-19	BOEHM & PULLEY	55-14-1-8.2
LOCUNTO	55-10-1-20	FLAMIO	55-14-1-8.3
REINGOLD	55-10-1-21	RUBIN	55-14-1-8.4
GIURCULUTO	55-13-1-21	SPADARO	55-14-1-9
SPANGENBERGER	55-13-1-22	STATE OF NEW YORK	55-14-1-10
VANDENBERG	55-13-1-23	THE RETREAT AT CARMEL HOA, INC.	55-14-1-11.2
TYCHOSTUP	55-14-1-1	ALBANO	55-14-1-26.32
QUATTROCCI	55-14-1-2	ZOTOLA	55-14-1-29
INGLESIAS	55-14-1-3	ROSSITER	55-14-1-30
WATSON	55-14-1-4	KLEIN & HEFFLER	55-14-1-31
RPK PRECISION HOMES, INC.	55-14-1-5.1	BRANDT	55-14-1-32
JOHNSON	55-14-1-7.1	GERTSEN	55-14-1-33
		CASEY	55-14-1-34

"JURISDICTIONAL" APPROVAL STATEMENT

Approved subject to the provision of a private (public) water supply and private (public) sewage treatment system for each habitable lot in accordance with the Putnam County Sanitary Code and as shown on the Realty Subdivision Plan as filed with the Putnam County Department of Health. Consent is hereby given for the filing of this map in the Office of the County Clerk in accordance with the provisions of Sections 1116 and 1117 of the Public Health.

BY: _____ DATE: _____
 Environmental Health Services

Expiration Date: _____

- Putnam County Department of Health Realty Subdivision General Notes:
- Unauthorized modifications made to this drawing after the date of Putnam County Health Department approval or any misinformation and/or erroneous data voids said approval.
 - Purchasers of lots to be furnished with a true copy of this plan as approved by the Putnam County Department of Health together with a copy of the Certificate of Approval.
 - The conditions noted on the Putnam County Department of Health Certificate of Approval are an integral part of this subdivision approval and compliance is required.
 - Approval is herewith granted for at total of 2 lots only, namely lots 1 and 2, and these lots only.
 - Proposed lots to be served by community water and sewer. Proposed sewer service to be provided by a connection to Carmel Sewer District #2 Proposed water service to be provided by a connection to Carmel Water District #2

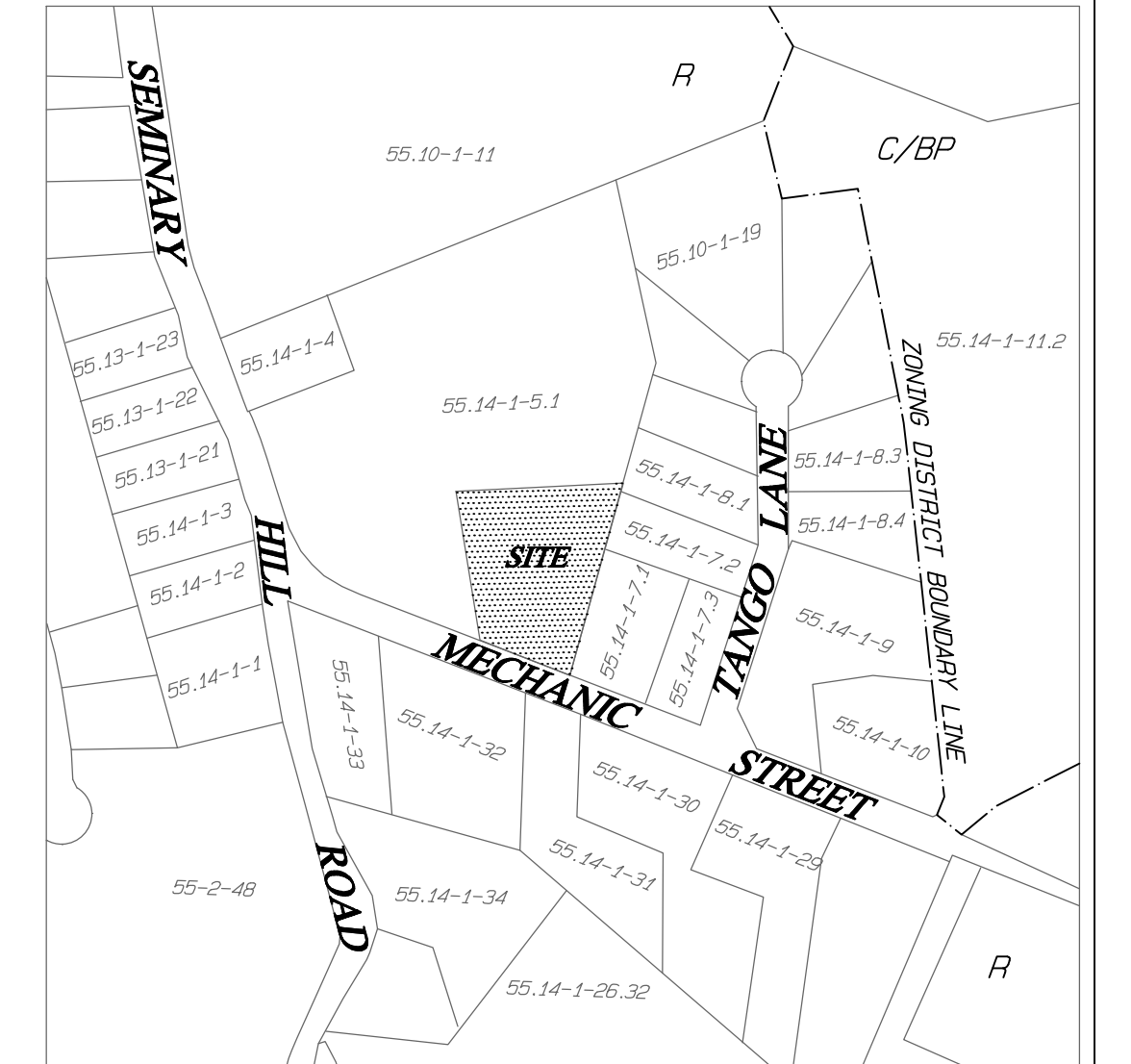
Owner/ Applicant

The undersigned owner of the property shown hereon states that they are familiar with this map, its contents and its legends and hereby consent to the filing of this map.

Paul H. Itzla: Owner _____ Date: _____
 9 Mechanic Street
 Carmel, New York 10512

Elizabeth M. Pinto-Itzla: Owner _____ Date: _____
 9 Mechanic Street
 Carmel, N.Y. 10512

- Subdivision Notes:
- Premises shown hereon located in the "R"-Residential Zone in the Town of Carmel
 - Premises shown hereon known and designated as Map 55.14 Block 1 Lot 6 on the Town of Carmel Tax Maps.
 - Additional underground easements, utilities or structures, etc. other than those shown may be encountered.
 - Total Acreage: 65,170 Sq. Ft. or 1.496 Acres before taking.
 - Unauthorized alteration or addition to a survey map bearing a licensed Land Surveyor's seal is a violation of Section 7209, Subdivision 2 of the New York State Education Law.
 - Address of Subdivision: 9 Mechanic Street Carmel, New York 10512
 - Topographic information in accordance with "Final Subdivision Plat prepared for RPK Precision Homes" Two foot contour Interval.
 - All utilities shall be installed underground and in conformance with utility company and town requirements.
 - There are no areas proposed to be reserved for Recreation / Open space
 - Lands to be dedicated to the Town of Carmel for future road widening purposes (Realignment of Mechanic Street).
 - The location of the underground utilities shown hereon is not guaranteed as to accuracy or completeness and should be verified by the contractor before any excavation.



ZONING SCHEDULE

R-RESIDENTIAL	REQUIRED	LOT NO. 1	LOT NO. 2
MIN. LOT AREA (S.F.)	120,000 S.F.	30,236 S.F.*	34,180 S.F.*
MIN. LOT WIDTH (FT.)	200 FT.	127 FT. *	119 FT. *
MIN. LOT DEPTH (FT.)	200 FT.	235 FT.	276 FT.
MIN. SETBACK			
FRONT (FT.)	40 FT.	54 FT.	159 FT.
SIDE (FT.)	25 FT.	25 FT.	31 FT.
REAR (FT.)	40 FT.	59.8 FT.	55 FT.
MAX HEIGHT OF BUILDING	35 FT.	<35 FT.	<35 FT.
MAX LOT COVERAGE	15%	<15%	<15%
MINIMUM ROAD FRONTAGE	100'	137.15'	50.31' *

* VARIANCES GRANTED BY THE TOWN OF CARMEL ZONING BOARD OF APPEALS ON OCTOBER 23, 2014

The Town of Carmel Zoning Board of Appeals granted the following variances:
 Lot 1: Area variance granted of 89,764 square feet.
 Lot 1: Minimum lot width variance granted for 73 feet.
 Lot 2: Area variance granted of 65,820 square feet.
 Lot 2: Minimum lot width variance granted for 87 feet.
 Lot 2: Frontage variance granted for 49.73 feet.

Planning Board Approval

Approved by Resolution of the Planning Board of the Town of Carmel, New York on the _____ day of 2016. Subject to all requirements and conditions of said Resolution. Any change, erasure, modification or revision of this plat, as approved, shall void this approval.

Signed This Day of _____ 20 _____ By: _____

Chairman: _____

Secretary: _____

SHEET 1 OF 2
FINAL SUBDIVISION PLAT
 PREPARED FOR
PAUL H. ITZLA
 and
ELIZABETH M. PINTO-ITZLA
 SITUATE IN THE
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK

SCALE: 1" = 30'

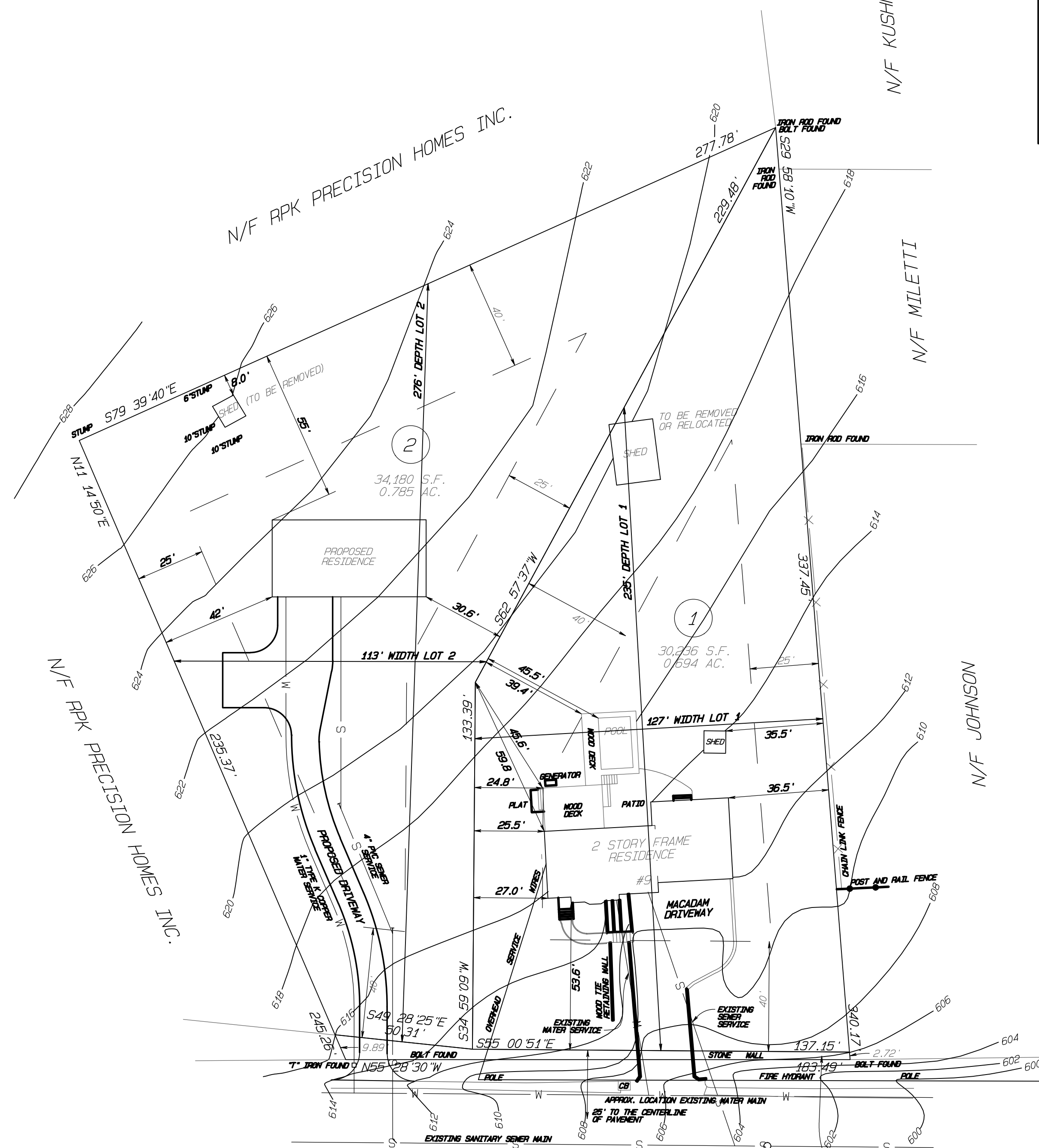
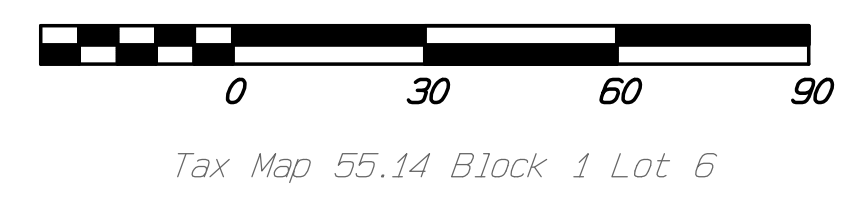


TABLE OF AREAS

LOT 1	0.694 Acres
LOT 2	0.785 Acres
R.O.W. TAKING	0.017 Acres
TOTAL	1.496 Acres

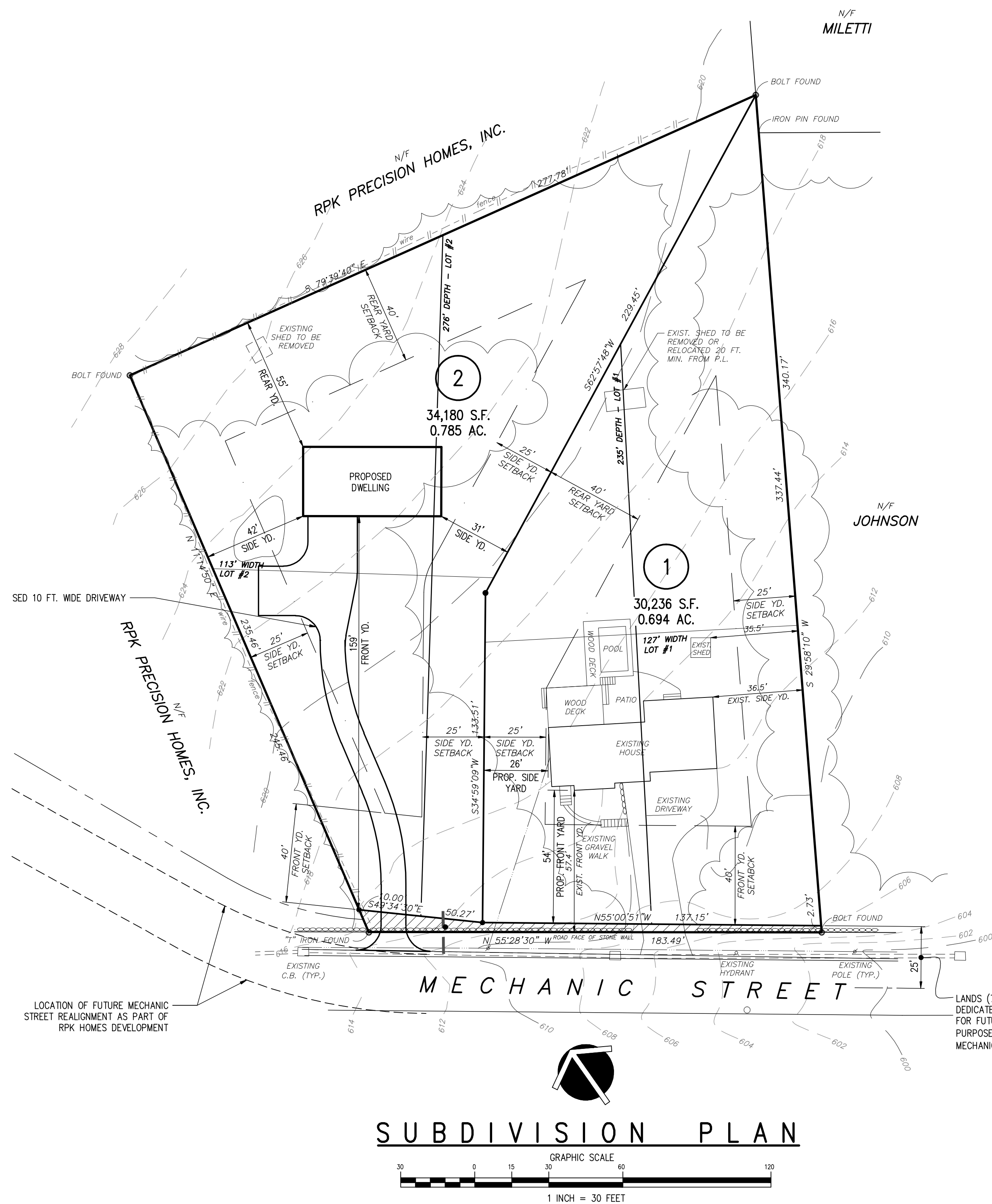
MECHANIC STREET
 (AKA HORSEPOUND ROAD)

We, H. Stanley Johnson and Company, Land Surveyors P.C., the surveyors who made this map, do hereby certify that the survey upon which this map is based was completed December 11, 2015 and that this map was completed January 11, 2016
 REVISED: October 1, 2019

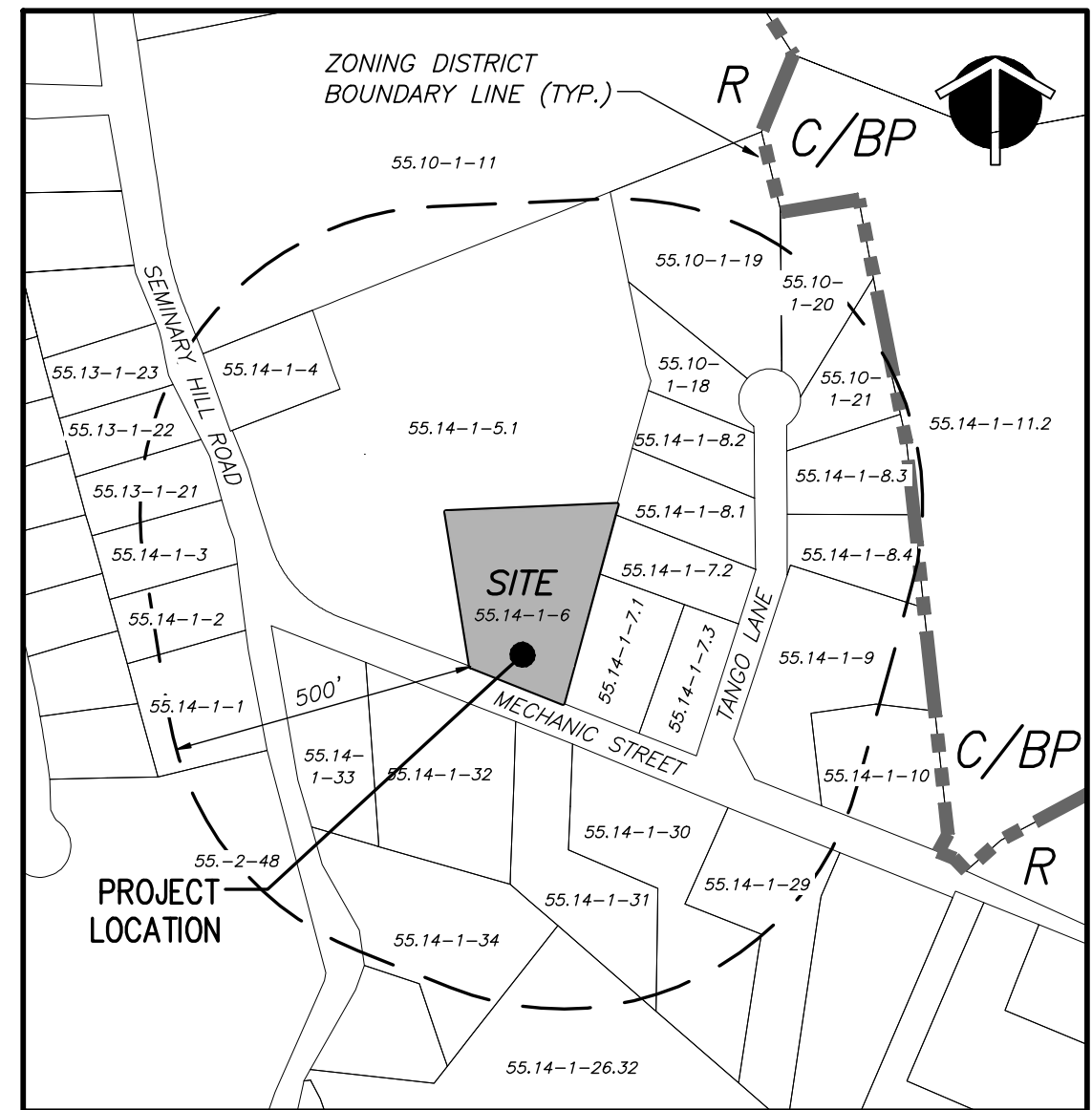
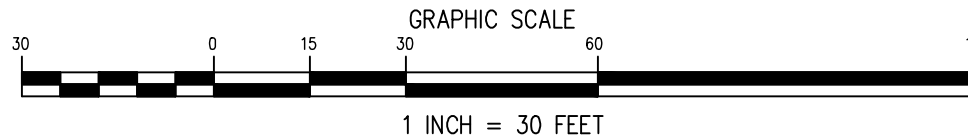
BY: _____
 NEW YORK STATE LICENSED LAND SURVEYOR NO. 50037
 ROBERT S. JOHNSON, P.L.S.

Engineering by: _____
 New York State Licensed Professional Engineer No. 067446
 Putnam Engineering, PLLC
 Engineers - Architects
 4 Old Route 6
 Brewster, New York 10509
 Tel. 845-279-6789 Fax. 845-279-6789

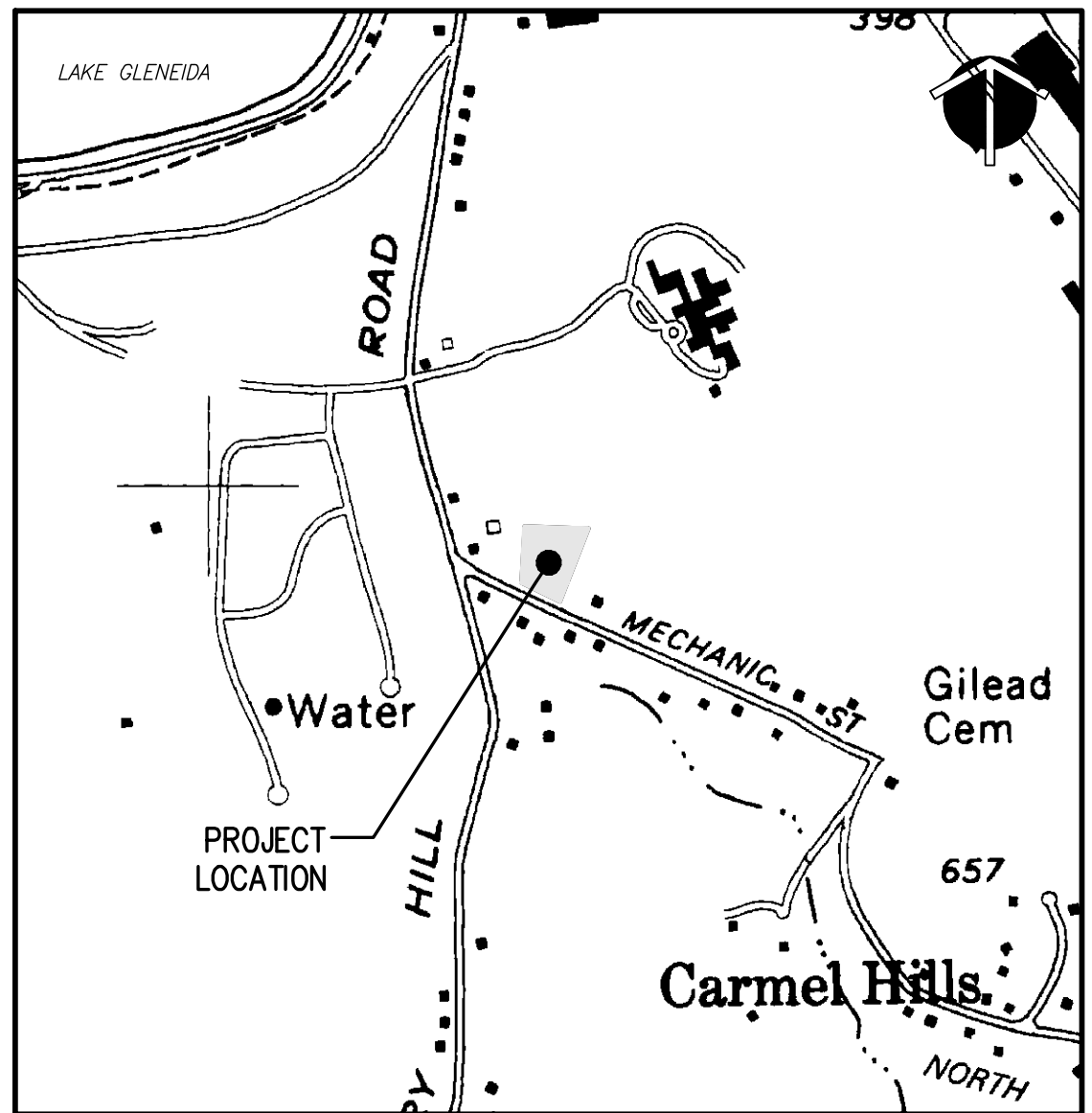
DATA NO. V84-013



SUBDIVISION PLAN



LOCATION MAP
SCALE: 1" = 300'



AREA MAP
SCALE: 1" = 800'

ADJOINERS:

TAX MAP #	OWNER	TAX MAP #	OWNER
55-2-48	LITTLE POND MANOR HOMEOWNERS	55.14-1-7.1	JOHNSON
55.10-1-11	LIBERTY MANAGEMENT OF NEW YORK	55.14-1-7.2	MILETTI
55.10-1-18	CARLO	55.14-1-7.3	PALLADINO
55.10-1-19	CAPUTO	55.14-1-8.1	CRIPPI
55.10-1-20	LOCONDO	55.14-1-8.2	BOEHM & PULLEY
55.10-1-21	REINGOLD	55.14-1-8.3	FLAMIO
55.13-1-21	CURCUTO	55.14-1-8.4	RUBIN
55.13-1-22	SPANGENBERGER	55.14-1-9	SPADARO
55.13-1-23	VANDENBERG	55.14-1-10	STATE OF NEW YORK
55.14-1-1	TYCHOSTUP	55.14-1-11.2	THE RETREAT AT CARMEL HOA, INC.
55.14-1-2	QUATRUCCI	55.14-1-26.32	ALBANO
55.14-1-3	INGLESAS	55.14-1-29	ZOTOLA
55.14-1-4	WATSON	55.14-1-30	ROSSIER
55.14-1-5.1	RPK PRECISION HOMES, INC.	55.14-1-31	KLEIN & HEFFLER
		55.14-1-32	BRANDT
		55.14-1-33	GERITSEN
		55.14-1-34	CASEY

ZONING SCHEDULE			
R - RESIDENTIAL	REQUIRED	LOT 1	LOT 2
MIN. LOT DIMENSIONS			
MIN. AREA (SQ. FT.)	120,000	30,236 *	34,180 *
MIN. WIDTH (FT.)	200	127 *	113 *
MIN. DEPTH (FT.)	200	235	276
MIN. YARD DIMENSIONS			
FRONT (FT.)	40	54	159
SIDE (FT.)	25	26	31
REAR (FT.)	40	60	55
MAX. HEIGHT OF BUILDING (FT.)	35	< 35	< 35
MAX. LOT COVERAGE (%)	15	< 15	< 15
MIN. ROAD FRONTAGE (FT.)	100	137.14	50.27 *

* - VARIANCES GRANTED OCTOBER 23, 2014 BY THE TOWN OF CARMEL ZONING BOARD OF APPEALS FOR THE FOLLOWING:

CODE REQUIRES	WILL EXIST	VARIANCE GRANTED
LOT 1 AREA - 120,000 S.F.	30,236 S.F.	89,674 S.F.
LOT 2 AREA - 120,000 S.F.	34,180 S.F.	85,820 S.F.
LOT 1 WIDTH - 200 FT.	127 FT.	73 FT.
LOT 2 WIDTH - 200 FT.	113 FT.	87 FT.
LOT 2 FRONTAGE - 100 FT.	50.27 FT.	49.73 FT.

TABLE OF AREAS:

LOT #1	0.694 AC
LOT #2	0.785 AC
R.O.W. DEDICATION	0.017 AC
TOTAL SITE AREA	1.496 AC

SUBDIVISION PLAN NOTES:

- BOUNDARY INFORMATION TAKEN FROM A PLAN ENTITLED "SKETCH SUBDIVISION PLAN" PREPARED FOR PAUL AND ELIZABETH ITZLA DATED SEPTEMBER 7, 2000 AS PREPARED BY PUTNAM ENGINEERING.
- TOPOGRAPHIC INFORMATION TAKEN FROM "FINAL SUBDIVISION PLAT PREPARED FOR RPK PRECISION HOMES" PREPARED BY BAXTER LAND SURVEYING AND AS-BUILT DRAWINGS FOR CARMEL SEWER DISTRICT #2. TWO FOOT CONTOUR INTERVAL.
- OWNER/APPLICANT: PAUL ITZLA
9 MECHANIC STREET
CARMEL, NY 10512
- SITE DATA: TAX MAP 55.14, BLOCK 1, LOT 6
LOT AREA = 1.496 ACRES (65,170 S.F.)
NUMBER OF PROPOSED LOTS = 2
- ZONING DISTRICT: R-RESIDENTIAL
- PROPOSED LOT IS TO BE SERVED BY COMMUNITY WATER AND SEWER. PROPOSED SEWER SERVICE TO BE PROVIDED BY A CONNECTION TO CARMEL SEWER DISTRICT #2. PROPOSED WATER SERVICE TO BE PROVIDED BY A CONNECTION TO CARMEL WATER DISTRICT #2.
- ALL PROPOSED UTILITIES SHALL BE INSTALLED UNDERGROUND AND IN CONFORMANCE WITH UTILITY COMPANY AND TOWN REQUIREMENTS.
- THERE ARE NO AREAS PROPOSED TO BE RESERVED FOR RECREATION / OPEN SPACE.
- NO CHANGES ARE PROPOSED FOR THE EXISTING HOUSE AND DRIVEWAY SHOWN ON LOT #1, WITH THE EXCEPTION OF RELOCATING THE EXISTING POOL AND SHED.

OWNER/APPLICANT APPROVAL

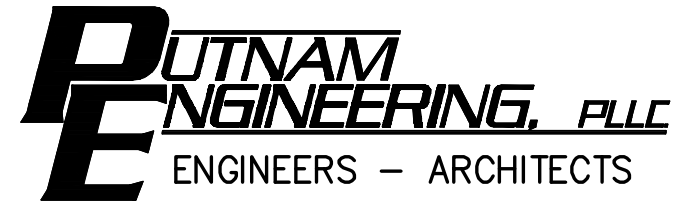
THE UNDERSIGNED OWNER OF THE PROPERTY HEREON STATES THAT HE IS FAMILIAR WITH THESE DRAWINGS, THEIR CONTENTS AND THEIR LEGENDS AND HEREBY CONSENTS TO ALL THEIR SAID TERMS AND CONDITIONS AS STATED HEREON. FURTHER, THE OWNER CONSENTS TO THE FILING OF THIS MAP.

SIGNED THIS _____ DAY OF _____, 20____

PLANNING BOARD APPROVAL

APPROVAL HEREBY GRANTED THIS _____ DAY OF _____, 20____ IF BUILDING PERMIT IS NOT ISSUED WITHIN 12 MONTHS FROM THE ABOVE DATE, THE APPROVAL BECOMES NULL AND VOID.

TOWN OF CARMEL PLANNING BOARD
SIGNED THIS _____ DAY OF _____, 20____ BY
CHAIRMAN _____
SECRETARY _____



4 OLD ROUTE 6, BREWSTER, NEW YORK 10509
(845) 279-6789 FAX (845) 279-6769
● PUTNAM ENGINEERING PLLC 2014

PURSUANT TO NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 7209 SUBDIVISION 2, "IT IS A VIOLATION OF THIS LAW FOR ANY PERSON UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE SEAL OF AN ENGINEER IS ALTERED. THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION."

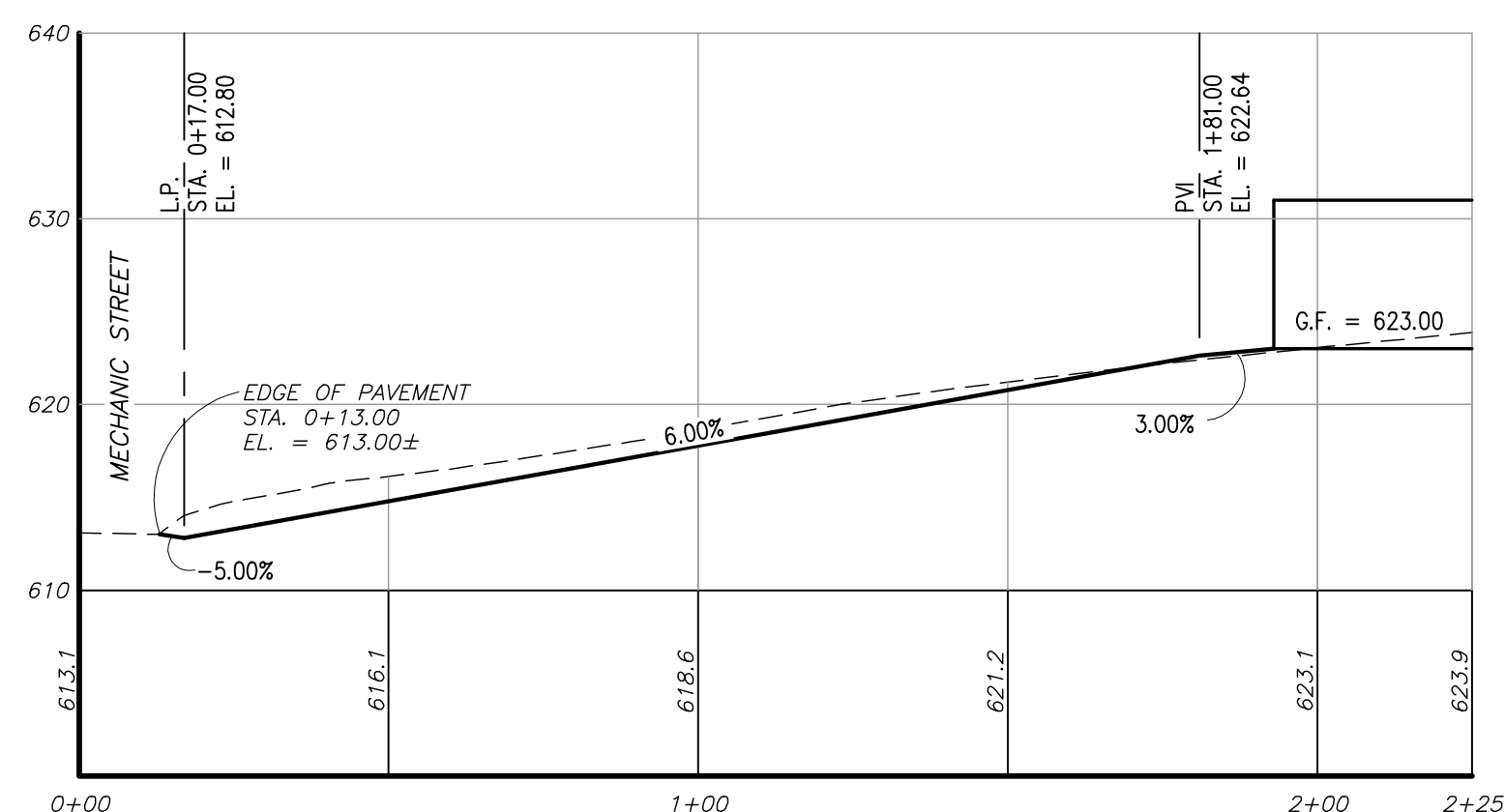
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	03 NOV 14	ADDED SIGHT DISTANCE & ZBA APPROVAL NOTES			
2	02 MAR 15	REVISED PER TE & TP COMMENTS			
3	16 JUN 15	REVISED PER TE MEMO			
4	18 JUN 16	REVISED TO FINAL SUBDIVISION			
5	05 DEC 19	REVISED PER TE COMMENTS			

PROJECT: RESIDENTIAL SUBDIVISION PREPARED FOR:
ITZLA SUBDIVISION
9 MECHANIC STREET
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP No. 55.14, BLOCK 1, LOT 6

DATE: 29 APR 14
PROJECT MANAGER: PML
DRAWN BY: JMK
CHECKED BY: PML
SCALE: AS NOTED

DRAWING: **FINAL SUBDIVISION PLAN**

PROJECT NUMBER: 7532
DRAWING NUMBER: **C-110**
SHEET 1 OF 5



DRIVEWAY PROFILE

SCALE: HORIZ 1" = 30', VERT 1" = 10'

SOILS LEGEND

SOIL SYMBOL	SOIL GROUP	SOIL NAME
PnB	C	PAXTON FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES

- NOTES:
 1. APPROXIMATE LIMITS OF SOIL TYPES TAKEN FROM "WEB SOIL SURVEY."
 2. ENTIRE SITE IS LOCATED WITHIN THE PnB SOIL TYPE.

EROSION CONTROL LEGEND:

- EXISTING CONTOURS
- PROPOSED CONTOURS
- LIMITS OF DISTURBANCE
- SILT FENCE
- CONSTRUCTION FENCE
- STABILIZED CONSTRUCTION ENTRANCE
- TEMPORARY STAGING AREA
- TEMPORARY SOIL STOCKPILE
- TEMPORARY SWALE
- CHECK DAM
- EXISTING CATCH BASIN
- EXISTING DRAINAGE LINE
- PROPOSED DRAINAGE LINE
- EXISTING WATER LINE
- PROPOSED WATER SERVICE
- EXISTING SEWER LINE
- PROPOSED SEWER SERVICE LINE
- PROPOSED UNDERGROUND CABLE/ELECTRIC/TELEPHONE CABLES

MAINTENANCE PROGRAM:

- THE PROJECT CONTRACTOR WILL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES WITHIN THE PROJECT PROPERTY.
 - PRIOR TO THE DETERMINATION OF A PROJECT CONTRACTOR THE PROJECT APPLICANT SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL TEMPORARY AND PERMANENT MEASURES.
- TEMPORARY MEASURES**
- SILT FENCE:** SEDIMENT SHALL BE REMOVED FROM BEHIND THE FENCE WHEN IT BECOMES 0.5 FEET DEEP AT THE FENCE. IT SHOULD ALSO BE INSPECTED WEEKLY AND PRIOR TO AND WITHIN 24 HOURS AFTER ALL FORECASTED STORM EVENTS. REPAIR SHALL BE PERFORMED AS NEEDED.
 - CONSTRUCTION ENTRANCE:** CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. VISUAL INSPECTION SHALL BE PERFORMED DAILY THROUGHOUT THE PROJECT CONSTRUCTION, 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 PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
 - ALL SEEDED AREAS SHALL BE FERTILIZED, RESEEDED AND MULCHED AS SPECIFIED IN THE "SLOPE STABILIZATION NOTES" TO MAINTAIN VIGOROUS, DENSE VEGETATIVE COVER.
 - ALL SEDIMENT REMOVED FROM BEHIND SILT FENCING SHALL BE CONSIDERED UNSUITABLE AND SHALL BE DISPOSED OF OFF SITE BY CONTRACTOR.
- PERMANENT MEASURES**
- SEEDED AREAS:** ANNUALLY CHECK THAT VEGETATION AND GROUND COVER IS ADEQUATE. SEED BARE AREAS.

STABILIZATION NOTES:

- TEMPORARY VEGETATIVE COVER:**
 - SCARIFY COMPACTED SOIL AREAS.
 - LIME AS REQUIRED TO pH 6.5
 - FERTILIZE WITH 10-10-10 AT THE RATE OF 200 LBS./AC.
 - INCORPORATE AMENDMENTS INTO SOIL WITH DISC HARROW.
 - SEED AS FOLLOWS:
 - * SPRING/SUMMER/EARLY FALL PLANTING: ANNUAL RYEGRASS AND CEREAL OATS AT 30 LBS./AC
 - * LATE FALL/EARLY WINTER PLANTING: AROOSTOOK WINTER RYE AT 100 LBS./AC
 - MULCH SEED WITH 2 TONS OF STRAW PER ACRE. ANCHOR AS NEEDED.
 - DURING WINTER CONSTRUCTION OR PERIODS OF WET WEATHER, TEMPORARY SLOPE STABILIZATION SHALL BE PROVIDED BY EITHER A ROLLED EROSION CONTROL PRODUCT OR A HEAVY MULCH LAYER SUITABLY ANCHORED. THE CONTRACTOR MUST RESEED THE AREA IN THE SPRING WITH THE APPROPRIATE SEEDING.
 - DURING DRY WEATHER CONSTRUCTION, ALL SEEDED AREAS ARE TO BE ADEQUATELY WATERED TO ENSURE VEGETATED COVER.
- PERMANENT VEGETATIVE COVER:**
 - GRADE TO FINISHED SLOPES.
 - SCARIFY COMPACTED SOIL AREAS
 - TOPSOIL WITH NOT LESS THAN FOUR (4) INCHES OF SUITABLE TOPSOIL MATERIAL.
 - LIME AS REQUIRED TO pH 6.5.
 - FERTILIZE WITH 10-6-4 AT THE RATE OF 200 LBS./AC.
 - SEED AS FOLLOWS:

TYPE I FOR USE ON MOWED AREAS:	SEED	LBS./AC.
	KENTUCKY BLUE GRASS	20
	CREeping RED FESCUE	28
	RED TOP OR RYE GRASS	5
 - TYPE II FOR USE IN DETENTION BASINS AND ON NON-MOWED AREAS:
 USE "NEW ENGLAND EROSION CONSERVATION/WILDLIFE" SEED MIX (NEW ENGLAND WETLAND PLANTS, INC.) OR EQUIVALENT. SEEDS INCLUDED IN THE MIX ARE LISTED BELOW. APPLICATION RATE OF 25 LBS./ACRE.

SWITCHGRASS	FRINGED BROMEGRASS	NODDING BUR-MARIGOLD
BIG BLUESTEM	CANADA WILD RYE	SHOWY TICK-TREFOIL
LITTLE BLUESTEM	FLAT-TOP ASTER	GRASS LEAVED GOLDENROD
FOX SEDGE	PARTRIDGE PEA	COMMON MILKWEED
SILKY SMOOTH ASTER	PENNSYLVANIA SMARTWEED	WILD BLUE LUPINE
 - WILDFLOWER AREAS ARE TO BE MOWED ONCE PER YEAR IN LATE FALL.
 - MULCH SEED WITH 2 TONS OF STRAW PER ACRE. ANCHOR AS NEEDED.
 - FOR DISTURBED AREAS WITH SLOPES GREATER THAN 1V:3H OR WHEN SLOPES ARE EQUAL TO 1V:3H AND THE HEIGHT OF THE SLOPE EXCEEDS 6 FEET, INSTEAD OF MULCHING, EROSION CONTROL BLANKET SHALL BE USED.

ON-SITE POLLUTION CONTROL MEASURES:

POLLUTION PREVENTION MEASURES TO CONTROL LITTER, CONSTRUCTION CHEMICALS & CONSTRUCTION DEBRIS:

- THE RECORD OWNER SHALL BE RESPONSIBLE FOR KEEPING THE SITE FREE OF LITTER AT ALL TIMES. DURING CONSTRUCTION ACTIVITIES THE OWNER MAY DESIGNATE A CONTRACTOR IN CHARGE AS A RESPONSIBLE PARTY.
- THE SITE SHALL BE INSPECTED AT THE END OF EACH WORKDAY AND TRASH, DEBRIS AND GARBAGE SHALL BE PICKED UP AND PLACED IN ON-SITE DUMPSTERS OR OTHERWISE REMOVED FROM THE SITE.
- THERE SHALL BE RECEPTACLES PLACED ON THE SITE TO TEMPORARILY STORE GARBAGE, DEBRIS OR CONSTRUCTION WASTE MATERIALS. THE CONTAINER SHALL NOT BE USED TO TRANSFER ANY GARBAGE FROM ANY OTHER OFF-SITE ACTIVITY.
- THE CONTAINERS SHALL BE OF SUFFICIENT SIZE FOR THE CONSTRUCTION ACTIVITY. CONTAINERS SHALL BE EMPTIED BY AN APPROVED CARTER TO A PROPER FACILITY WHEN FULL. CONTAINERS SHALL BE COVERED TO PREVENT INFILTRATION OF RAIN AND WEATHER AND TO PREVENT WIND BORNE DEBRIS REMOVAL.
- DEBRIS OR TRASH PILES ARE NOT PERMITTED. DEBRIS SHALL BE PLACED IN CONTAINERS. TEMPORARY PILES OF BRUSH OR STUMPS SHALL BE PROTECTED BY SILT FENCE SIMILAR TO TOPSOIL STOCKPILES.
- A PORTABLE TOILET FACILITY SHALL BE PROVIDED FOR CONSTRUCTION WORKERS AND AN ADDITIONAL FACILITY FOR EVERY 10 ON-SITE WORKERS.
- CONSTRUCTION VEHICLES SHALL BE SERVICED OFF-SITE AT A PROPER FACILITY. LEAKING OR ILL REPAIRED VEHICLES SHALL NOT BE LOCATED ON SITE. NO OIL CHANGES ARE PERMITTED ON SITE. FUELING OF VEHICLES ON-SITE SHALL BE CAREFULLY PERFORMED WITH AN APPROVED DISPENSER NOZZLE HOSE AND PUMP. SPILLS SHALL BE PROMPTLY REPORTED TO THE NYSDEC AND TOWN. OIL ABSORBENT PADS AND ROLLS SHALL BE USED TO TEMPORARILY CONTAIN ANY SPILLS.
- CHEMICAL SOIL ADDITIVES OR HERBICIDES SHALL NOT BE USED ON SITE DURING CONSTRUCTION UNLESS APPROVED BY THE TOWN AND ARE IN COMPLIANCE WITH NYSDEC REGULATIONS.
- PAINTS, CHEMICALS OR OTHER TOXIC SUBSTANCES SHALL NOT BE PLACED IN TRASH CONTAINERS. PAINTS, CHEMICALS OR TOXIC SUBSTANCES SHALL BE REMOVED FROM THE SITE BY AN APPROVED LICENSED CARTER.
- THERE SHALL BE NO OPEN FIRES OR BARREL FIRES PERMITTED UNLESS APPROVED BY THE TOWN AND FIRE MARSHALL.

ON-SITE STORAGE OF CONSTRUCTION AND WASTE MATERIALS:

- CONSTRUCTION MATERIALS STORED ON-SITE ARE ANTICIPATED TO BE:
 - BRUSH OR TREE STUMPS
 - SOIL STOCKPILES
 - CONSTRUCTION EQUIPMENT AND MACHINERY
 - DUMPSTERS OR STORAGE CONTAINERS
 - BUILDING CONSTRUCTION MATERIALS (MASONRY, WOOD, ETC.)
- POLLUTION CONTROLS SHALL CONSIST OF:
 - POLLUTION PREVENTION MEASURES DESCRIBED ABOVE
 - COVERING OF EXPOSED PRODUCTS WHEN NOT IN USE
 - IMPLEMENTATION OF TEMPORARY STOCKPILE PROTECTION MEASURES

EROSION CONTROL GENERAL NOTES:

- TOWN OF CARMEL GENERAL NOTES:**
 - CONSTRUCTION EQUIPMENT SHALL NOT UNNECESSARILY CROSS LIVE STREAMS EXCEPT BY MEANS OF BRIDGES AND CULVERTS OR OTHER APPROVED METHODS.
 - WHENEVER FEASIBLE, NATURAL VEGETATION SHOULD BE RETAINED AND PROTECTED.
 - ONLY THE SMALLEST PRACTICAL AREA OF LAND SHOULD BE EXPOSED AT ANY ONE TIME DURING DEVELOPMENT.
 - WHEN LAND IS EXPOSED DURING DEVELOPMENT, THE EXPOSURE SHALL BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME.
 - THE PERMANENT FINAL VEGETATION AND STRUCTURES SHALL BE INSTALLED AS SOON AS PRACTICAL AND AS MAY BE DIRECTED BY THE ENGINEER.
- ALL DISTURBED AREAS ARE CONSIDERED "STABILIZED" WHEN 80% OF UNIFORM, PERENNIAL VEGETATIVE COVER IS ACHIEVED OR EQUIVALENT STABILIZATION MEASURES (SUCH AS MULCHES, EROSION CONTROL BLANKET, ETC.) HAVE BEEN PROPERLY EMPLOYED. NO WORK SHALL CONTINUE BEFORE PRIOR DISTURBANCE IS STABILIZED.
- AREAS UNDERGOING EARTHWORK, WHERE SOIL IS TO BE LEFT EXPOSED FOR MORE THAN FIFTEEN DAYS, SHALL BE STABILIZED WITH EITHER TEMPORARY OR PERMANENT VEGETATIVE COVER. TEMPORARY COVER SHALL BE USED WHEN THE PROJECT SCHEDULE DOES NOT COINCIDE WITH THE OPTIMUM PLANTING SEASON. IN GENERAL, OPTIMUM PLANTING TIMES FOR GRASSES ARE MARCH 15th TO MAY 31st AND SEPTEMBER 1st TO NOVEMBER 15th. DURING OPTIMUM PLANTING TIMES, PERMANENT VEGETATIVE COVER WILL BE INSTALLED. SEE SPECIFICATIONS FOR FURTHER DETAILS.
- THE PROJECT OWNER / DEVELOPER OR DESIGNATED REPRESENTATIVE SHALL ARRANGE A PRE-CONSTRUCTION MEETING INVITING ALL INVOLVED REVIEW AGENCIES AND ENGINEERS OF RECORD PRIOR TO START OF CONSTRUCTION ACTIVITIES.
- TEMPORARY MEASURES SHALL BE MAINTAINED BY PROJECT OWNER / DEVELOPER OR A DESIGNATED REPRESENTATIVE (SUCH AS THE GENERAL CONTRACTOR) DURING THE ENTIRE CONSTRUCTION PERIOD AND UNTIL RESPONSIBILITIES ARE TRANSFERRED TO THE INDIVIDUAL HOMEOWNER. LEGALLY BINDING DOCUMENTS SHALL BE INCLUDED WITH THE SALE OF THE PROPERTY.

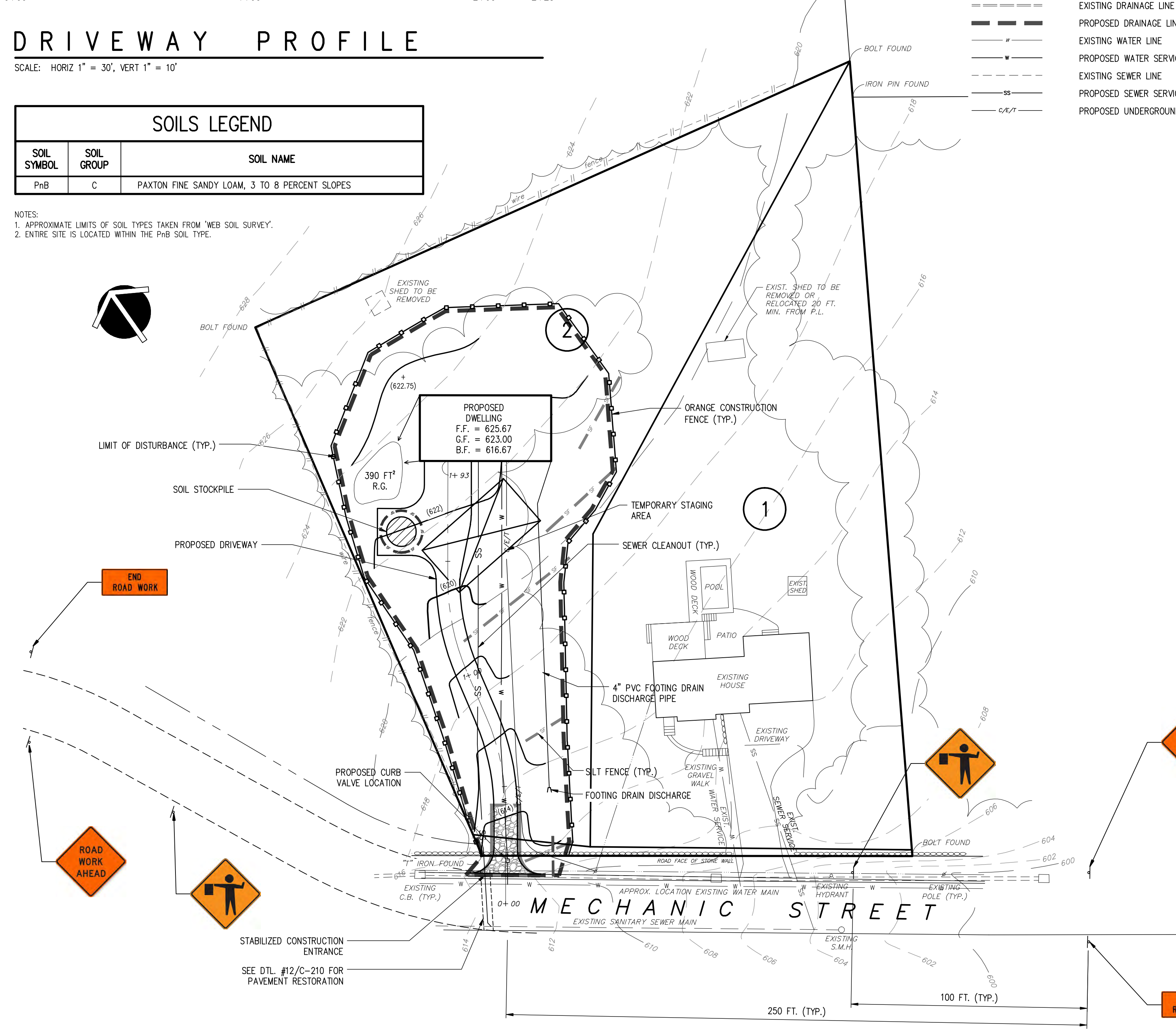
DEVELOPER/OWNER: PAUL ITZLA
 9 MECHANIC STREET
 CARMEL, NY 12052
- THE PROJECT OWNER / DEVELOPER OR DESIGNATED REPRESENTATIVE SHALL RETAIN THE SERVICE OF QUALIFIED PERSONNEL (LICENSED PROFESSIONAL ENGINEER, CERTIFIED PROFESSIONAL IN EROSION & SEDIMENT CONTROL-CPESC, OR SOIL SCIENTIST) TO PERFORM SITE INSPECTIONS DURING THE CONSTRUCTION PERIOD AND FINAL SITE INSPECTION AT PROJECT COMPLETION.
- THE CONTRACTOR SHALL MAKE AVAILABLE ON SITE, ALL EQUIPMENT, MATERIALS AND LABOR NECESSARY TO EFFECT EMERGENCY REPAIR AND REPLACEMENT OF THE EROSION CONTROL MEASURES.
- SITE INSPECTIONS DURING CONSTRUCTION PERIOD SHALL BE PERFORMED AT LEAST EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER. DURING WINTER, IF THE SOIL DISTURBANCE IS COMPLETELY SUSPENDED AND THE SITE IS PROPERLY STABILIZED, INSPECTION FREQUENCY MAY REDUCE, BUT SHALL MAINTAIN A MINIMUM OF MONTHLY INSPECTIONS IN ALL SITUATIONS (EVEN WHEN THERE IS TOTAL WINTER SHUTDOWN). DURING PERIODS OF REDUCED INSPECTION FREQUENCY, INSPECTIONS MUST STILL BE DONE AFTER EVERY STORM EVENT OF 0.5 INCHES OR GREATER. TO BE ALLOWED TO REDUCE INSPECTION FREQUENCIES, THE OPERATOR MUST COMPLETE STABILIZATION ACTIVITIES (PERMETER CONTROLS, TRAPS, BARRIERS, ETC.) BEFORE PROPER INSTALLATION IS PRECLUDED BY SNOW COVER OR FROZEN GROUND. IF VEGETATION IS DESIRED, SEEDING, PLANTING, AND/OR SODDING MUST BE SCHEDULED TO AVOID DIE-OFF FROM FALL FROSTS AND ALLOW FOR PROPER GERMINATION/ESTABLISHMENT.
- THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST BY SPRINKLING EXPOSED AREAS PERIODICALLY WITH WATER.
- THE PROJECT OWNER / DEVELOPER OR DESIGNATED REPRESENTATIVE SHALL KEEP INSPECTION REPORTS AND LOGS AT THE SITE. A SUMMARY OF INSPECTION ACTIVITIES SHALL BE POSTED AT A PUBLICLY ACCESSIBLE AREA OF THE SITE ON A MONTHLY BASIS.
- PRIOR TO START OF CONSTRUCTION ACTIVITIES, THE PROJECT OWNER / DEVELOPER OR DESIGNATED REPRESENTATIVE SHALL CERTIFY ON THE INSPECTION LOG THAT A SWPPP WAS PROPERLY PREPARED FOR THE PROJECT AND CONFORMS TO ALL FEDERAL, STATE AND LOCAL EROSION & SEDIMENT CONTROL REQUIREMENTS.
- THE PROJECT OWNER / DEVELOPER OR DESIGNATED REPRESENTATIVE SHALL PROVIDE A PHONE NUMBER TO THE DIRECTOR OF CODE ENFORCEMENT FOR USE IN EMERGENCY SITUATIONS.

SEQUENCE OF CONSTRUCTION:

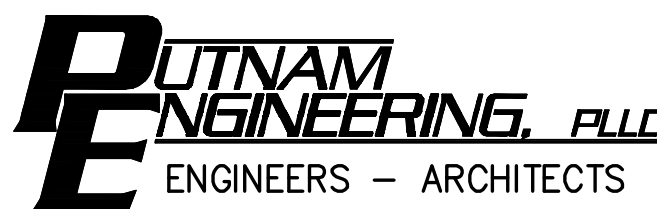
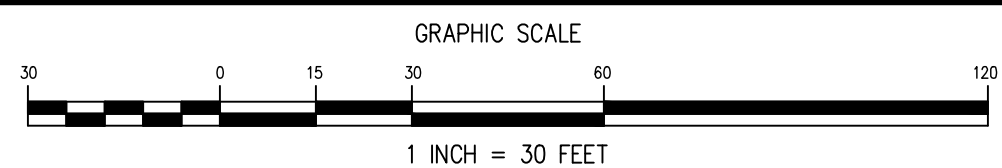
TOTAL AREA OF DISTURBANCE = 0.41 AC.

IN ORDER TO EFFECTIVELY CONTROL EROSION AND SEDIMENT, THE CONTRACTOR SHALL ADHERE TO THE LOCATION, MATERIALS, DETAILS AND PROCEDURES SHOWN ON THIS DRAWING, AND THE FOLLOWING SEQUENCE OF CONSTRUCTION:

- SURVEY AND STAKE OUT PROPOSED HOUSE AND DRIVEWAY LOCATIONS. ESTABLISH LIMITS OF DISTURBANCE AND MARK IN THE FIELD. INSTALL CONSTRUCTION FENCE ALONG PERMETER OF THE PROPOSED DISTURBANCE.
- INSTALL SAFETY ORANGE CONSTRUCTION FENCING AROUND FUTURE UNDERGROUND INFILTRATION SYSTEM LOCATION WHERE SHOWN ON THE PLAN.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE WHERE SHOWN ON THE PLAN. VEHICLES SHALL BE INSPECTED AND CLEANED, IF REQUIRED, PRIOR TO ENTERING ONTO MECHANIC STREET.
- INSTALL SILT FENCE IMMEDIATELY DOWNGRADE OF AREAS OF PROPOSED DISTURBANCES AND WHERE INDICATED ON PLAN. ALL SILT FENCE TO BE INSTALLED PARALLEL TO CONTOURS.
- CLEAR AND GRUB AREAS OF PROPOSED DISTURBANCE. STRIP TOPSOIL FROM THE PROPOSED DISTURBANCE AREAS AND STORE USABLE ORGANIC MATERIAL IN STOCKPILES WHERE SHOWN ON THE PLAN. PROVIDE STOCKPILE PROTECTION PER DETAIL #3/C-210.
- ROUGH GRADE THE PROPOSED DRIVEWAY AND HOUSE LOCATIONS.
- SEED AND STABILIZE DISTURBED AREAS PER "STABILIZATION NOTES" AND APPROPRIATE DETAILS WITHIN ONE (1) WEEK AFTER GRADING. NO FURTHER CONSTRUCTION IS ALLOWED BEFORE ALL DISTURBED AREAS ARE STABILIZED.
- CONSTRUCT THE HOUSE. INSTALL FOOTING DRAINS AND OUTFALL. CONNECT HOUSE TO ALL UTILITY LINES. TRENCHES TO BE BACKFILLED IMMEDIATELY UPON COMPLETION OF INSTALLATION OF PIPES AND CABLES. EXPOSED SOIL TO BE STABILIZED IMMEDIATELY AFTER BACKFILL.
- EXCAVATE FOR AND INSTALL ROOF LEADER DRAINS AND UNDERGROUND INFILTRATION SYSTEM AS SHOWN ON THE PLAN.
- PAVE DRIVEWAY.
- COMPLETE FINISHED GRADING. SEED AND STABILIZE DISTURBED AREAS IMMEDIATELY AFTER GRADING.
- REMOVE ALL TEMPORARY EROSION CONTROL MEASURES TO INCLUDE SILT FENCING.
- UPON COMPLETION OF ALL ABOVE ACTIVITIES AND SATISFACTORY ESTABLISHMENT OF VEGETATION ON ALL DISTURBED AREAS, CONTRACTOR TO PERFORM FINAL CLEANING OF THE PROJECT SITE.



EROSION CONTROL and CONSTRUCTION PLAN



4 OLD ROUTE 6, BREWSTER, NEW YORK 10509
 (845) 279-6789 FAX (845) 279-6769
 PUTNAM ENGINEERING PLLC 2014

PURSUANT TO NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 7209 SUBDIVISION 2, "IT IS A VIOLATION OF THIS LAW FOR ANY PERSON UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE SEAL OF AN ENGINEER IS ALTERED. THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION."

REVISIONS		PROJECT			
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	03 NOV 14	ADDED SIGHT DISTANCE & ZBA APPROVAL NOTES			
2	02 MAR 15	REVISED PER TE & TP COMMENTS			
3	16 JUN 15	REVISED PER TE MEMO			
4	18 JUN 16	REVISED TO FINAL SUBDIVISION			
5	05 DEC 19	REVISED PER TE COMMENTS			

RESIDENTIAL SUBDIVISION PREPARED FOR:
 ITZLA SUBDIVISION
 9 MECHANIC STREET
 TOWN OF CARMEL
 PUTNAM COUNTY, NEW YORK
 TAX MAP No. 55.14, BLOCK 1, LOT 6

DATE: 29 APR 14
 PROJECT MANAGER: PML
 DRAWN BY: JMG
 CHECKED BY: PML
 SCALE: AS NOTED

EROSION CONTROL and CONSTRUCTION PLAN

PROJECT NUMBER: 7532
 DRAWING NUMBER: C-120
 SHEET 2 OF 5

SIGHT DISTANCE NOTES:

1. MINIMUM SIGHT DISTANCE AT INTERSECTION REQUIREMENT OF 200 FEET AS NOTED IN TOWN OF CARMEL ZONING CODE, CHAPTER 126, ATTACHMENT 1, TABLE 1, STREET DESIGN STANDARDS.
2. DESIGN SPEED = 30 MPH.
3. PER AASHTO 'GEOMETRIC DESIGN OF HIGHWAYS AND STREETS' 2001, CHAPTER 4, LOCAL RURAL ROADS, EXHIBIT 5-2, DESIGN CONTROLS FOR STOPPING SIGHT DISTANCE, THE REQUIRED STOPPING SIGHT DISTANCE FOR 30 MPH IS 200 FEET.

MINIMUM LINE OF SIGHT COMPUTATIONS:

CALCULATION BASED ON 1990 AND 1994 AASHTO "GREENBOOKS"

$$SSD = 1.47vt + v^2 / (a / 32.2 \pm g)$$

DESIGN SPEED $v = 30$ MPH
 EASTBOUND SLOPE $g = 7.5\%$ DOWN ($g = 0.08$)
 WESTBOUND SLOPE $g = 6.7\%$ UP ($g = 0.07$)
 PERCEPTION/REACTION TIME $t = 2.5$ sec
 DECELERATION RATE $a = 11.2$ ft/sec²

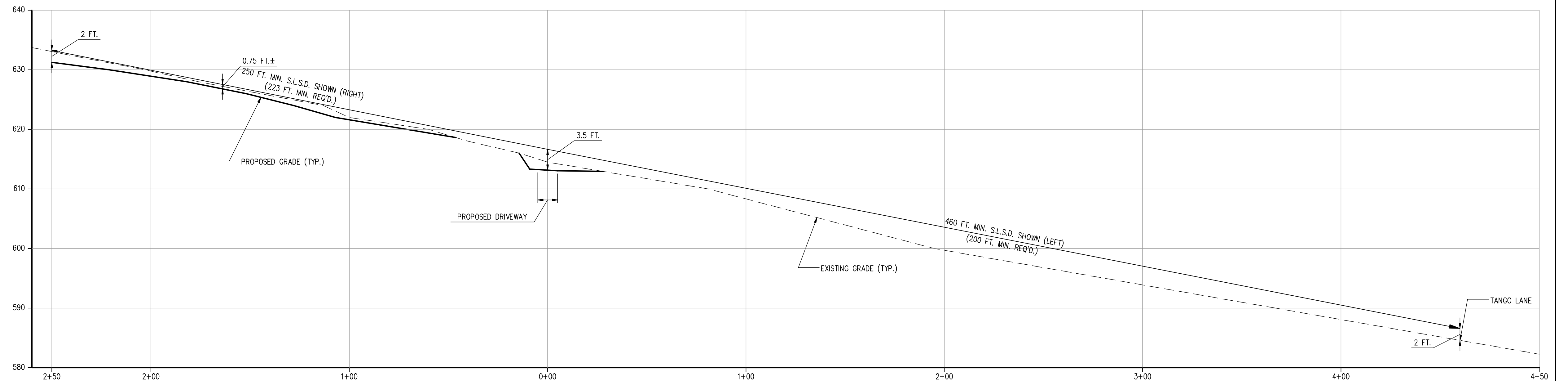
S.L.S.D. (RIGHT-WESTBOUND) = $(1.47)(30)(2.5) + 30^2 / 30 (11.2/32.2 - 0.08) = 223$

S.L.S.D. (LEFT-EASTBOUND) = $(1.47)(30)(2.5) + 30^2 / 30 (11.2/32.2 + 0.07) = 197$

* - 200 FEET MINIMUM PER TOWN CODE

ACTUAL SIGHT DISTANCES:

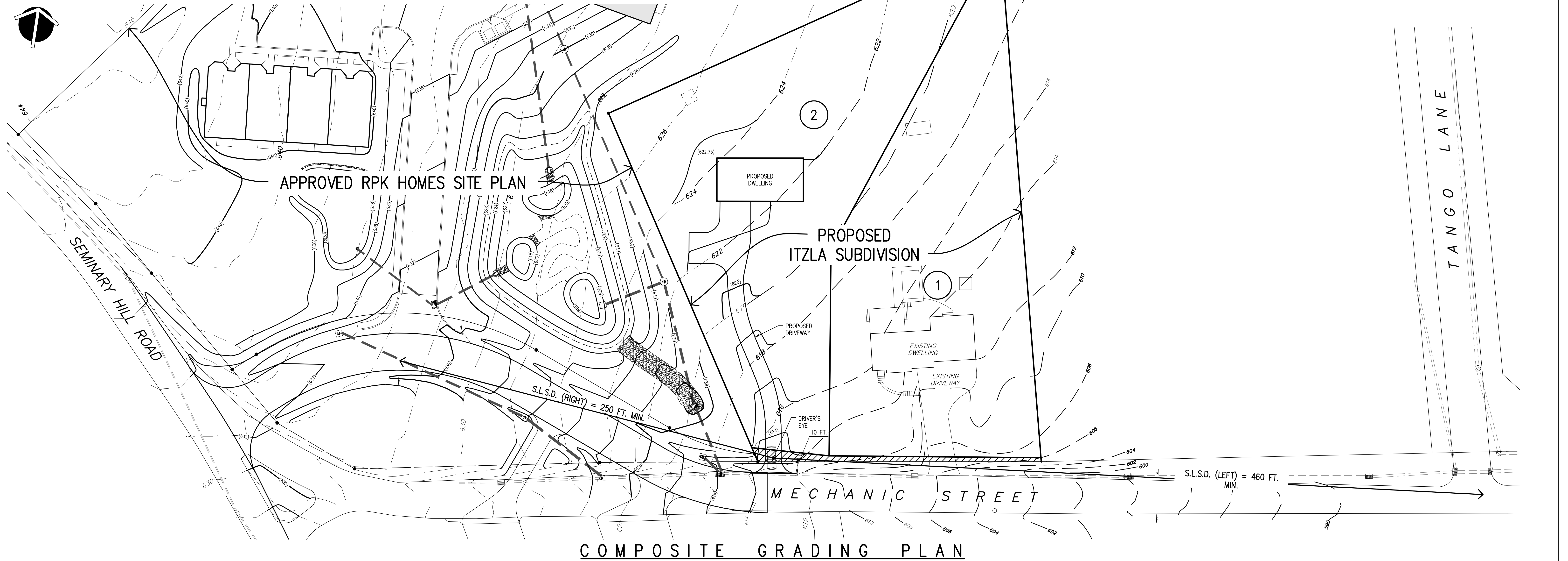
WESTBOUND = 250 FEET
 EASTBOUND = 460 FEET +



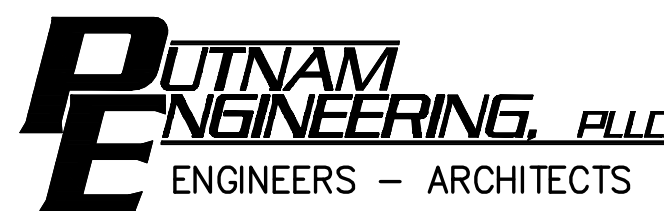
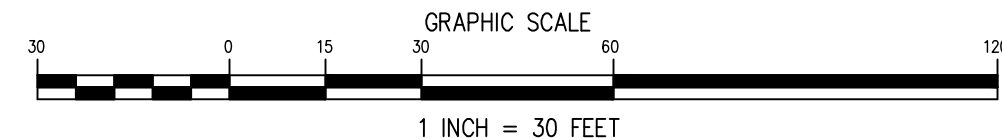
SIGHT DISTANCE PROFILE

SCALE: HORIZ 1" = 30', VERT 1" = 10'

NOTE: PROPOSED GRADES FOR SIGHT DISTANCE PROFILE TAKEN FROM APPROVED SITE PLAN DRAWINGS PREPARED FOR "RPK PRECISION HOMES, INC." DATED NOVEMBER 21, 2003.



COMPOSITE GRADING PLAN



4 OLD ROUTE 6, BREWSTER, NEW YORK 10509
 (845) 279-6789 FAX (845) 279-6769
 PUTNAM ENGINEERING PLLC 2015

PURSUANT TO NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 7209 SUBDIVISION 2, "IT IS A VIOLATION OF THIS LAW FOR ANY PERSON UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE SEAL OF AN ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION."

REVISIONS		PROJECT			
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	03 NOV 14	ADDED SIGHT DISTANCE & ZBA APPROVAL NOTES			
2	02 MAR 15	REVISED PER TE & TP COMMENTS			
3	16 JUN 15	REVISED PER TE MEMO			
4	18 JAN 16	REVISED TO FINAL SUBDIVISION			
5	05 DEC 19	REVISED PER TE COMMENTS			

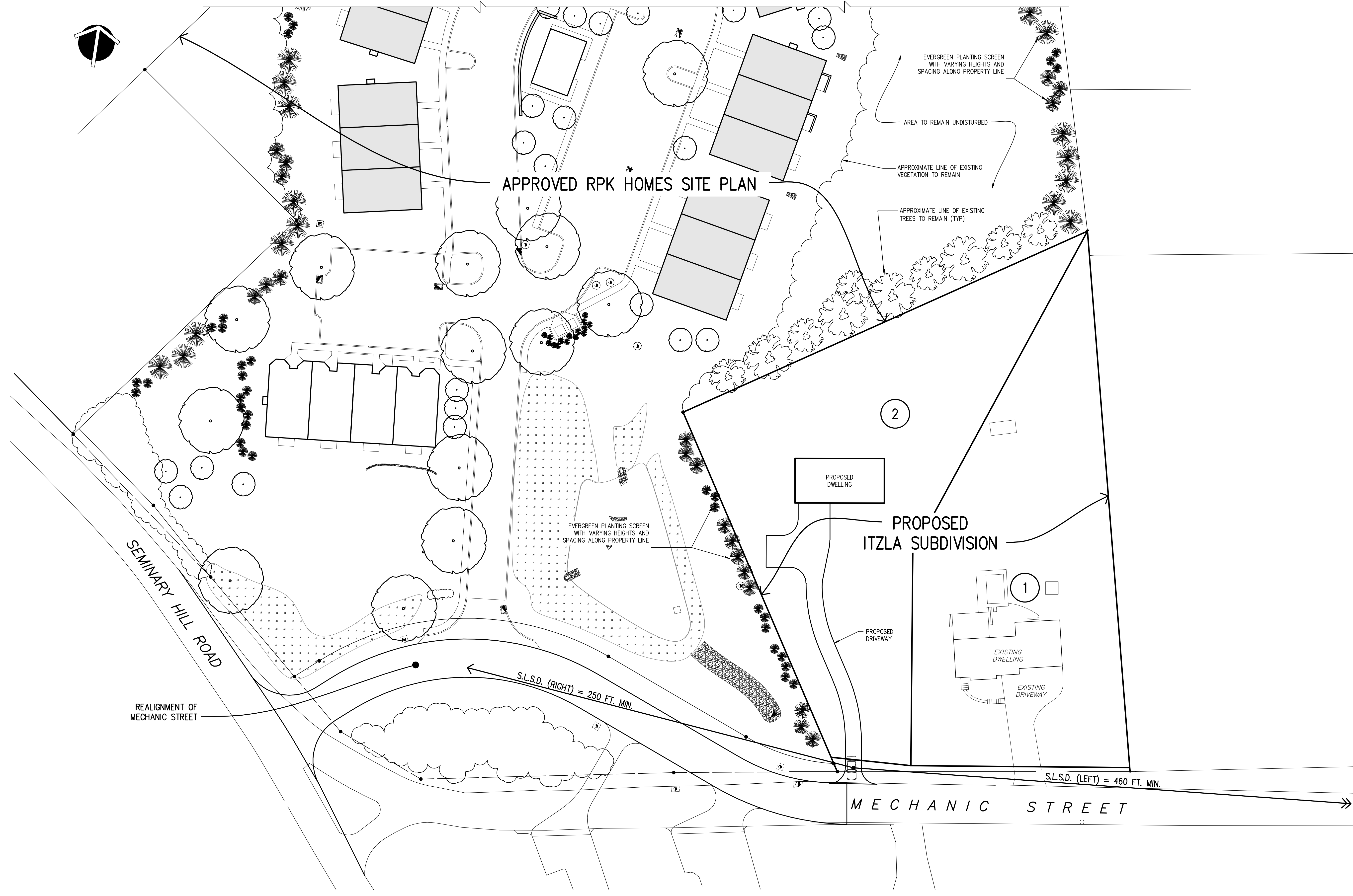
RESIDENTIAL SUBDIVISION PREPARED FOR:
ITZLA SUBDIVISION
 9 MECHANIC STREET
 TOWN OF CARMEL
 PUTNAM COUNTY, NEW YORK
 TAX MAP No. 55.14, BLOCK 1, LOT 6

[Signature]

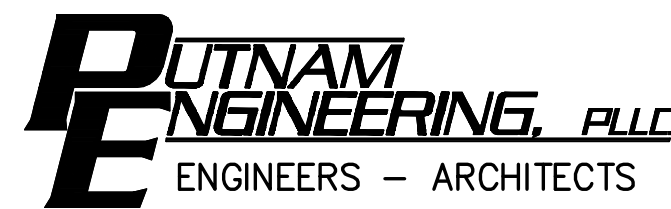
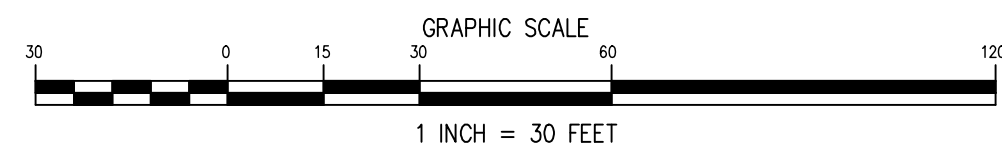
DATE: 19 FEB 15
 PROJECT MANAGER: PML
 DRAWN BY: LKJ
 CHECKED BY: PML
 SCALE: AS NOTED

DRAWING: **COMPOSITE GRADING PLAN and SIGHT DISTANCE PROFILE**

PROJECT NUMBER: 7532
 DRAWING NUMBER: **C-130**
 SHEET 3 OF 5



COMPOSITE LANDSCAPING PLAN



4 OLD ROUTE 6, BREWSTER, NEW YORK 10509
 (845) 279-6789 FAX (845) 279-6769
 ● PUTNAM ENGINEERING PLLC 2015

PURSUANT TO NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 7209 SUBDIVISION 2, "IT IS A VIOLATION OF THIS LAW FOR ANY PERSON UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE SEAL OF AN ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION."

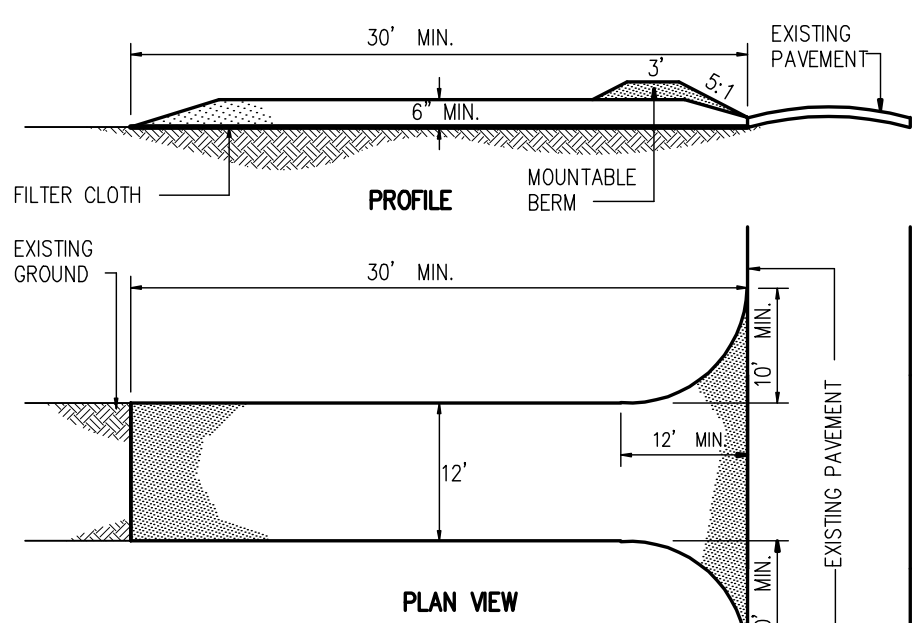
REVISIONS					
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	03 NOV 14	ADDED SIGHT DISTANCE & ZBA APPROVAL NOTES			
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PROJECT
 RESIDENTIAL SUBDIVISION PREPARED FOR:
ITZLA SUBDIVISION
 9 MECHANIC STREET
 TOWN of CARMEL
 PUTNAM COUNTY, NEW YORK
 TAX MAP No. 55.14, BLOCK 1, LOT 6

DATE
 19 FEB 15
 PROJECT MANAGER
 PML
 DRAWN BY
 -RKG
 CHECKED BY
 PML
 SCALE
 AS NOTED

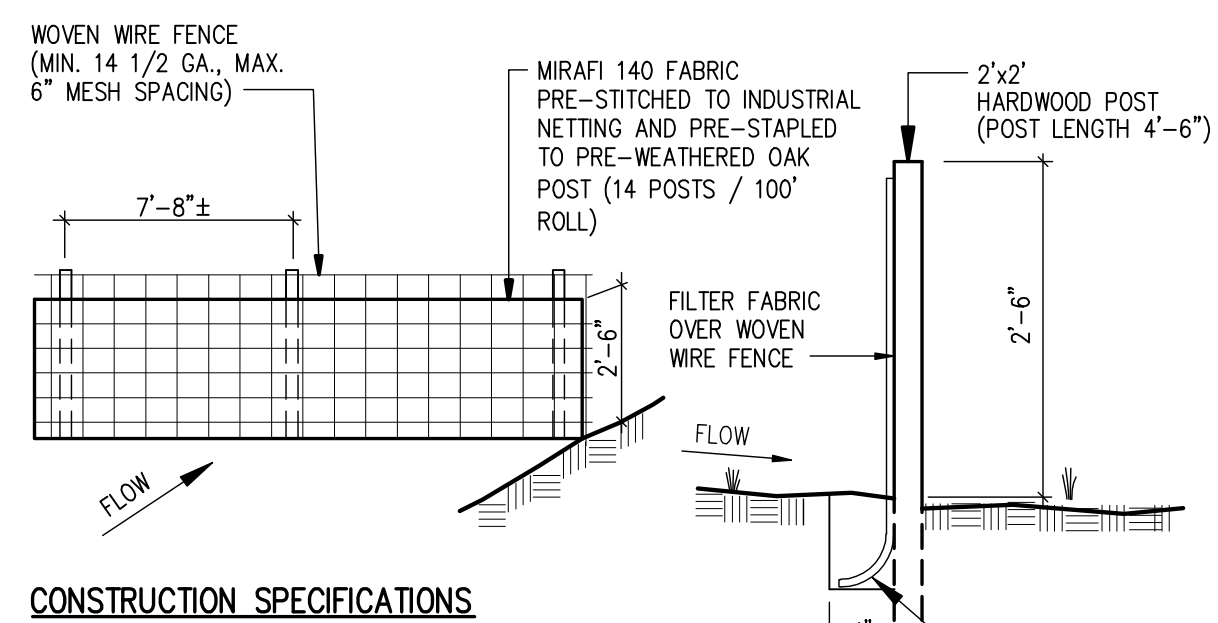
DRAWING
COMPOSITE LANDSCAPING PLAN

PROJECT NUMBER
 7532
 DRAWING NUMBER
C-140
 SHEET 4 OF 5



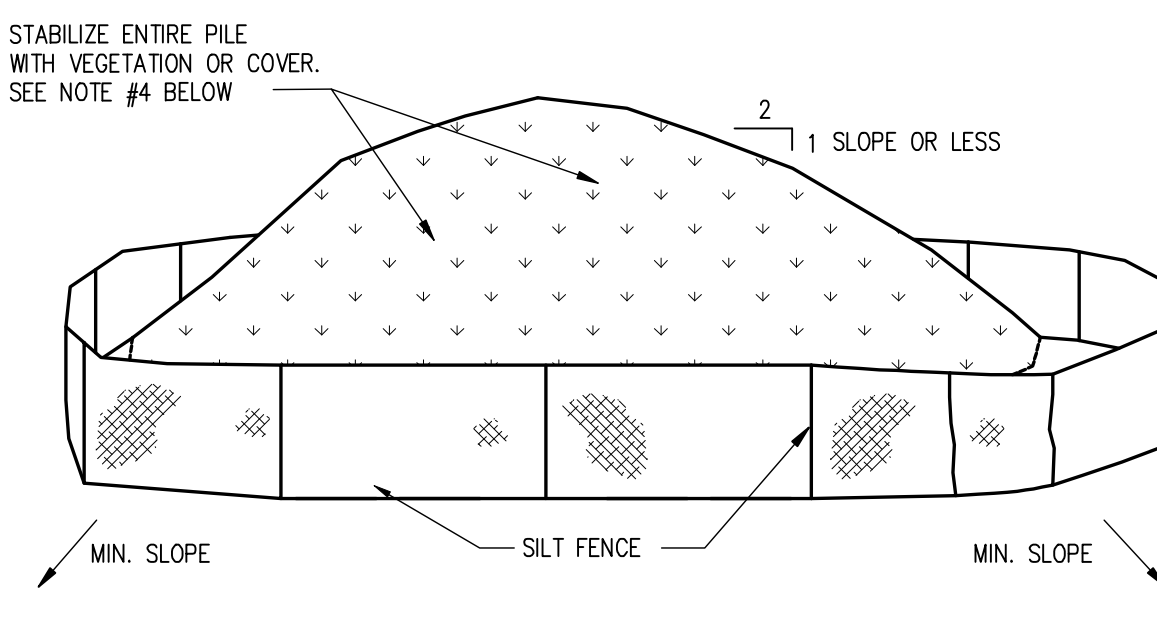
- CONSTRUCTION SPECIFICATIONS:**
- STONE SIZE - USE 2" STONE OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 - LENGTH - NOT LESS THAN 30 FEET
 - THICKNESS - NOT LESS THAN SIX (6) INCHES.
 - WIDTH - TWELVE (12) FEET MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS AND EGRESS OCCUR.
 - FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. "MIRAFI" 700K OR APPROVED EQUAL.
 - 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 RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED WASHED OR TRACED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
 - WASHING - 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.

1 STABILIZED CONSTRUCTION ENTRANCE DTL
C-210 N.T.S.



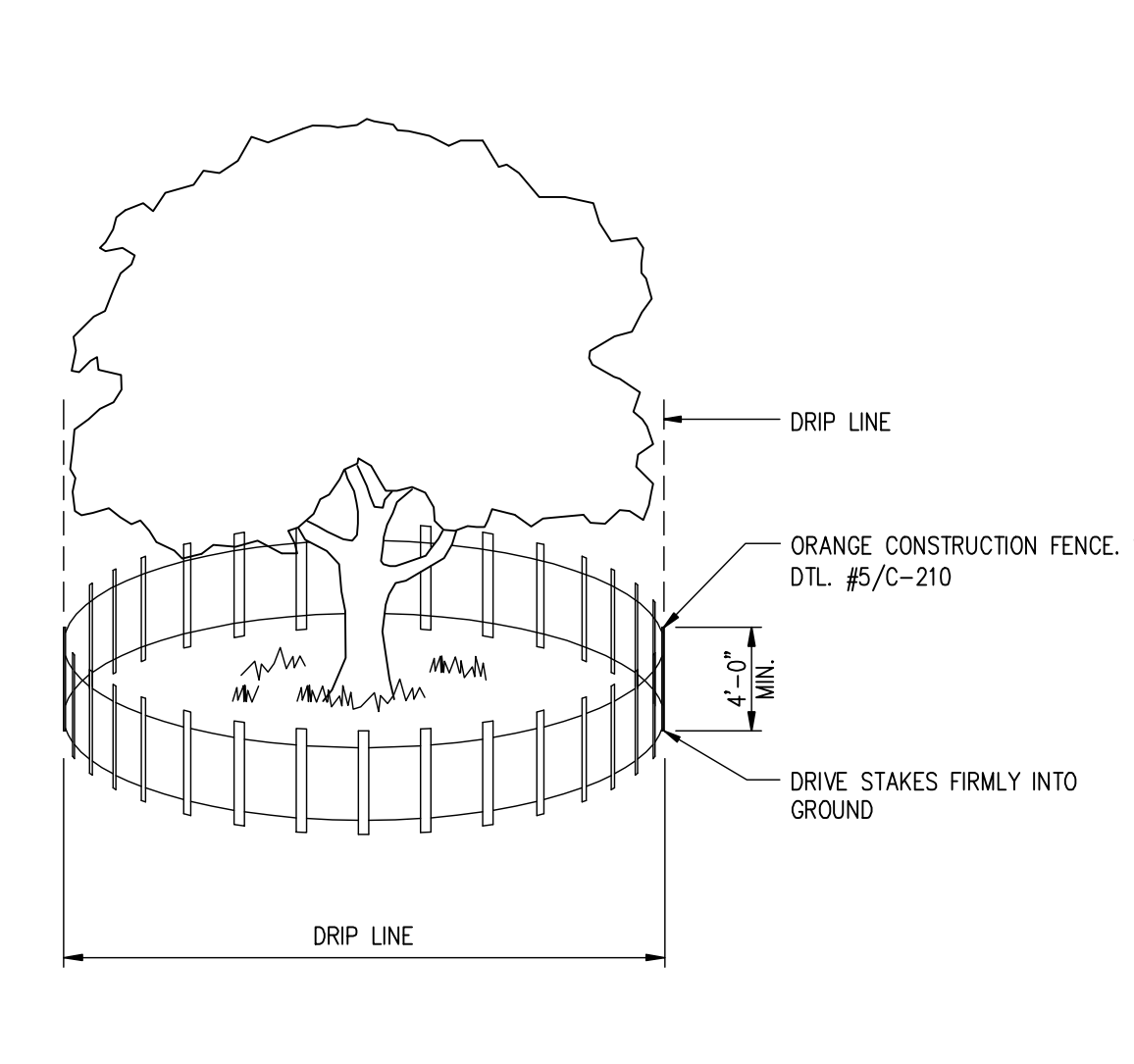
- CONSTRUCTION SPECIFICATIONS:**
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. WOVEN WIRE SHALL BE 14 1/3 GA. 6" MAX. MESH OPENING.
 - FILTER FABRIC TO BE EMBEDDED IN SOIL A MIN. OF 6". FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
 - INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
 - SILT FENCE TO BE REMOVED AT END OF CONSTRUCTION BUT NOT BEFORE ALL DISTURBED AREAS ARE STABILIZED AND VEGETATED.
 - FOR SILT FENCE INSTALLATION ON PAVED AREAS, REMOVE PORTION OF ASPHALT NECESSARY TO TOE-IN THE FABRIC AND TO INSTALL THE POSTS. THE PAVEMENT SHALL BE RESTORED BEFORE FINAL SITE CLEANING.

2 SILT FENCE DETAILS
C-210 N.T.S.

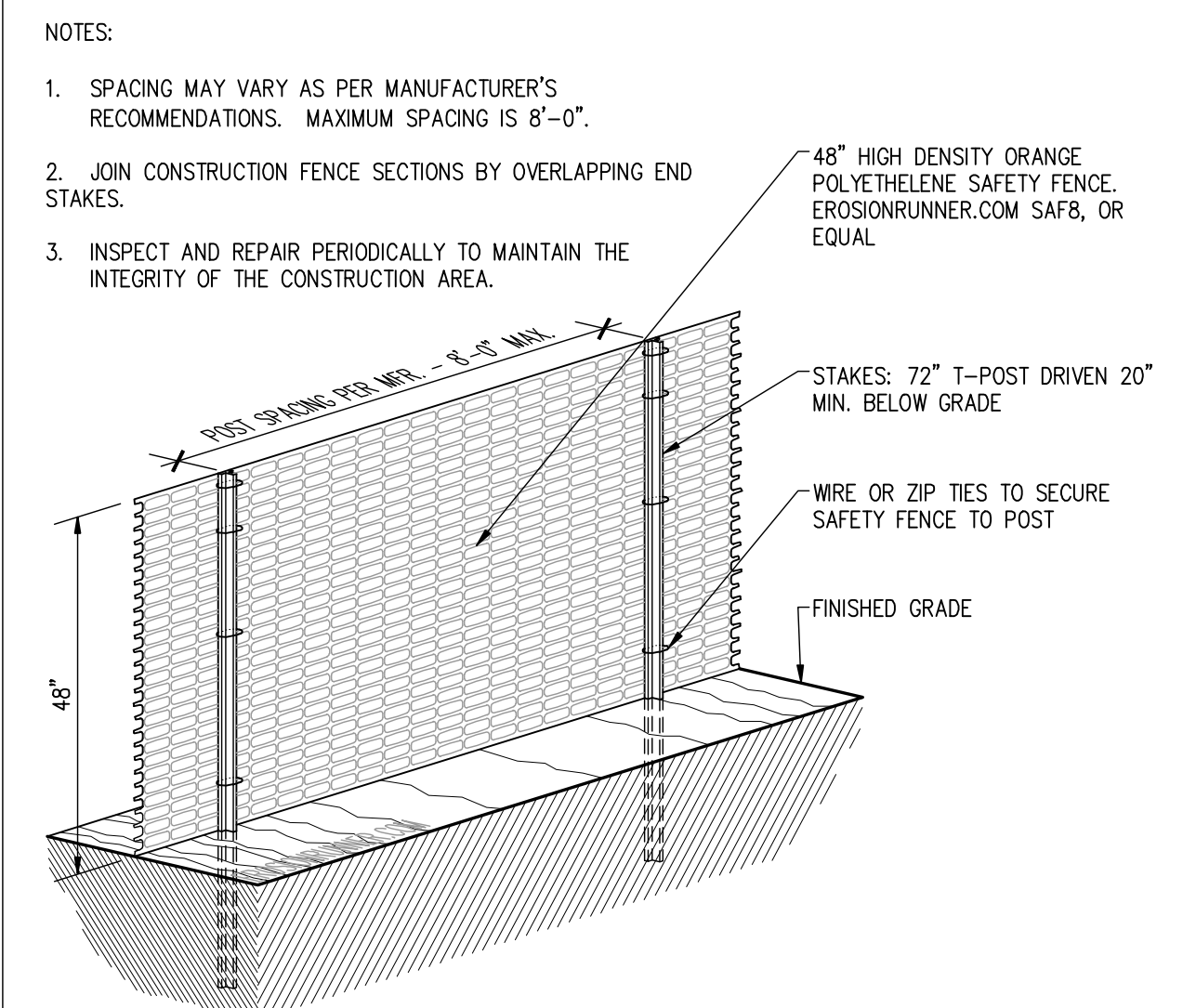


- INSTALLATION NOTES:**
- AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
 - MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
 - UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH SILT FENCING.
 - SPRING/SUMMER/FALL SEEDING: SEED WITH PERENNIAL RYE GRASS @ 40 LBS/AC. STABILIZATION FROM NOVEMBER 1 THROUGH MARCH 31 SHALL BE BY A ROLLED EROSION CONTROL PRODUCT OR MAY BE HYDROSEEDED WITH WINTER RYE WITH A HEAVY MULCH LAYER. RESEED STOCKPILE IN SPRING AS NOTED ABOVE.
 - SEE SILT FENCE DETAIL FOR SILT FENCE INSTALLATION SPECIFICATIONS.

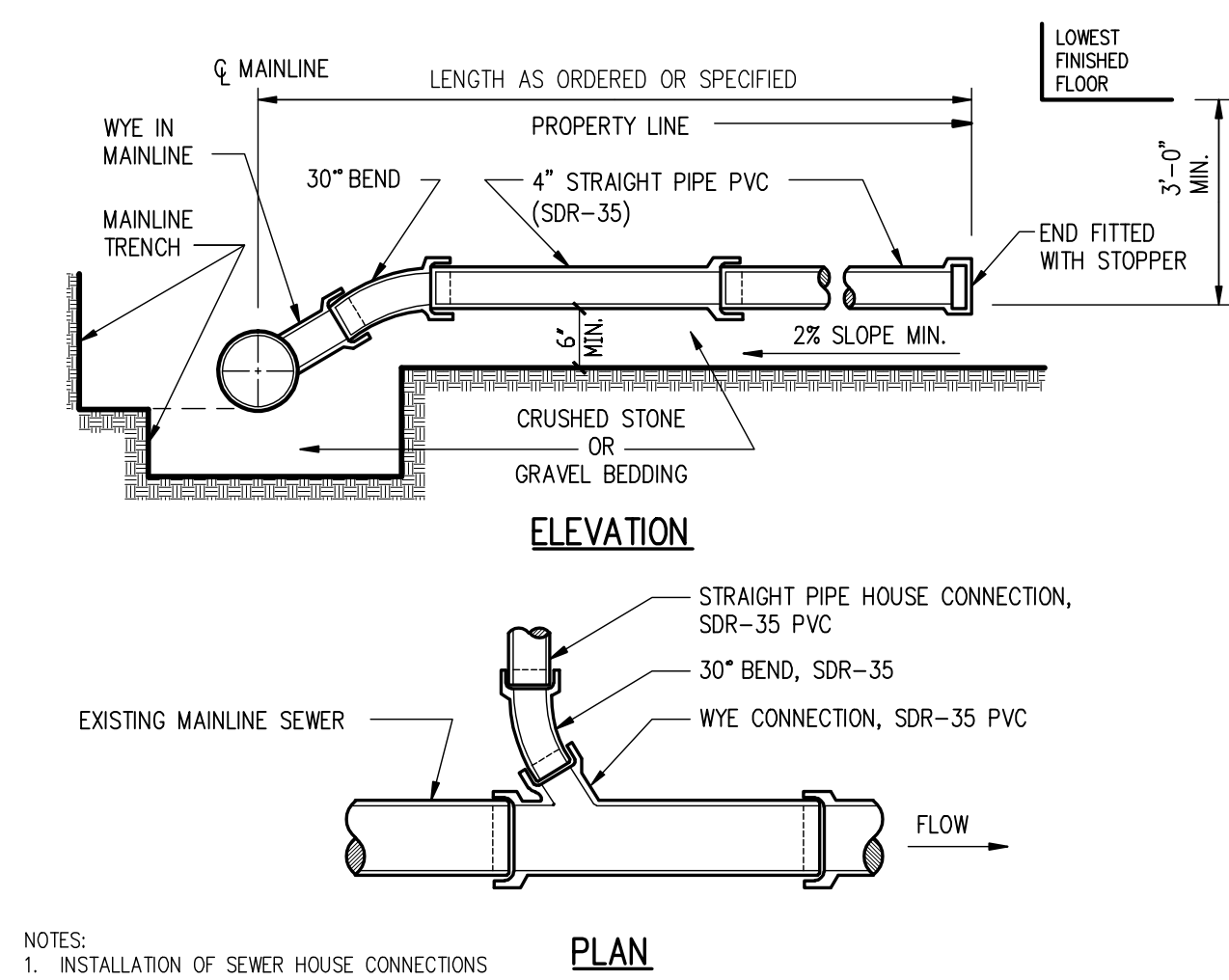
3 TOPSOIL STOCKPILE DETAIL
C-210 N.T.S.



4 TREE PRESERVATION DETAIL
C-210 N.T.S.

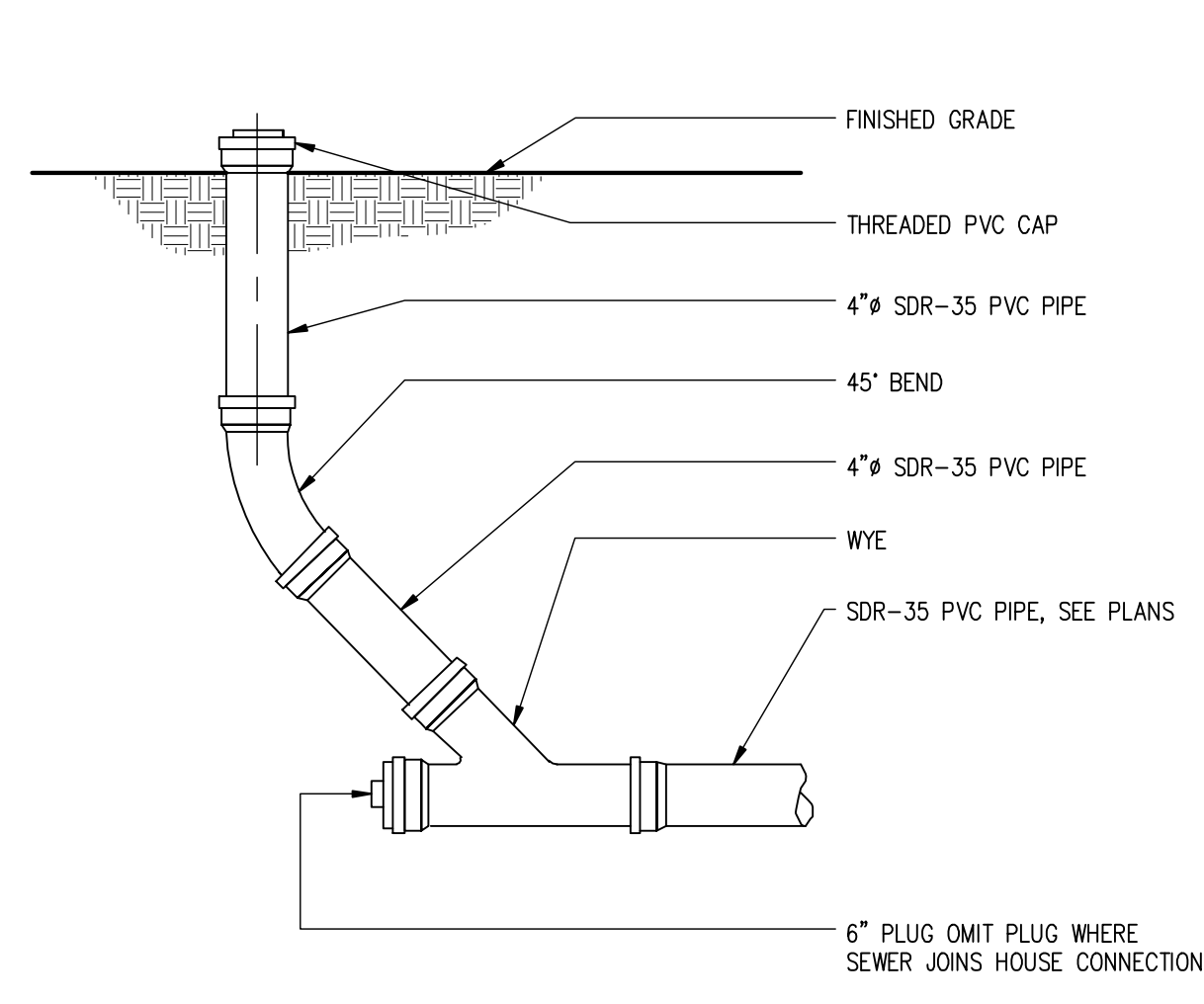


5 CONSTRUCTION SAFETY FENCE DTL.
C-210 N.T.S.

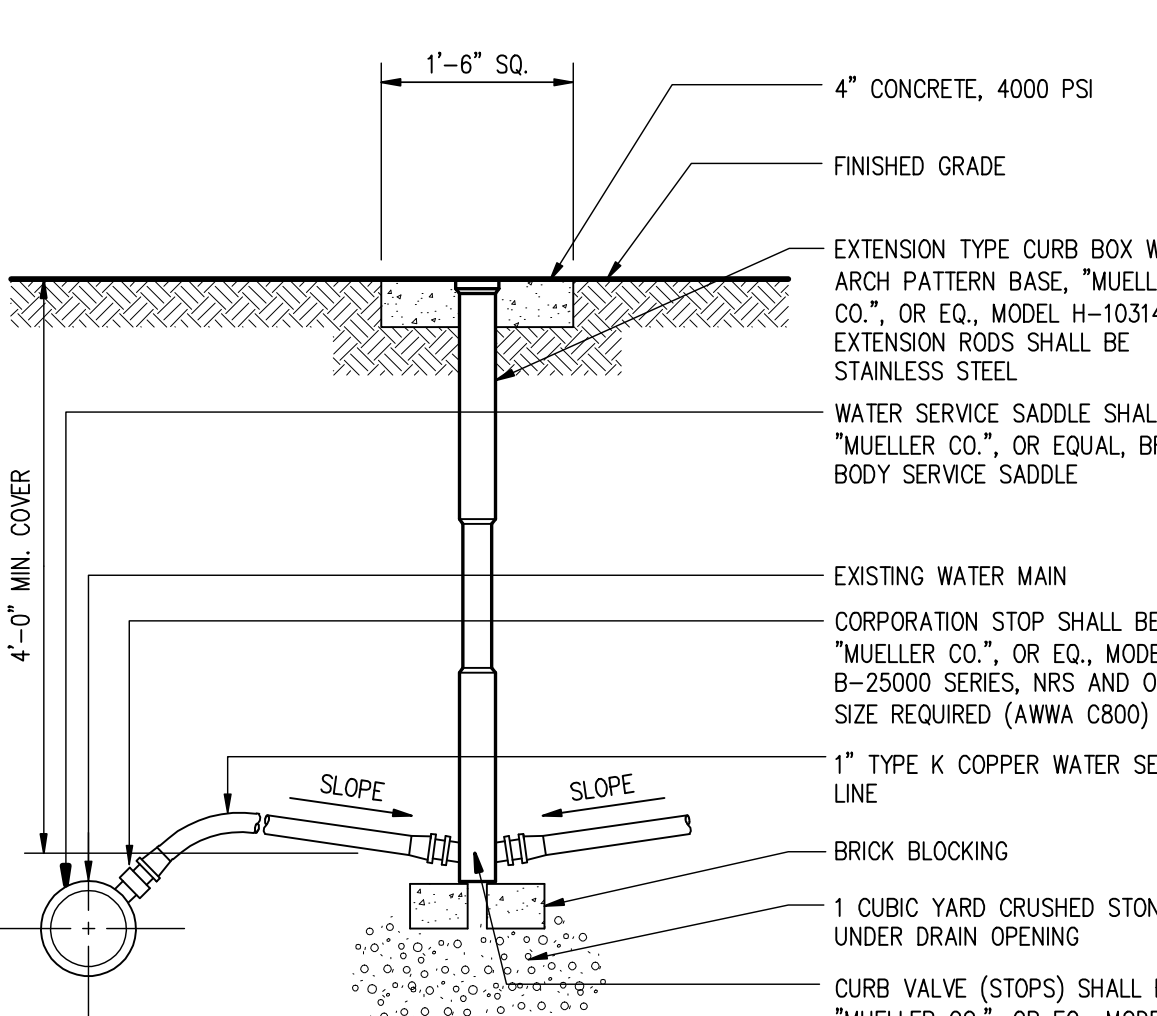


- NOTES:**
- INSTALLATION OF SEWER HOUSE CONNECTIONS TO BE INSPECTED AND APPROVED BY THE TOWN ENGINEER.

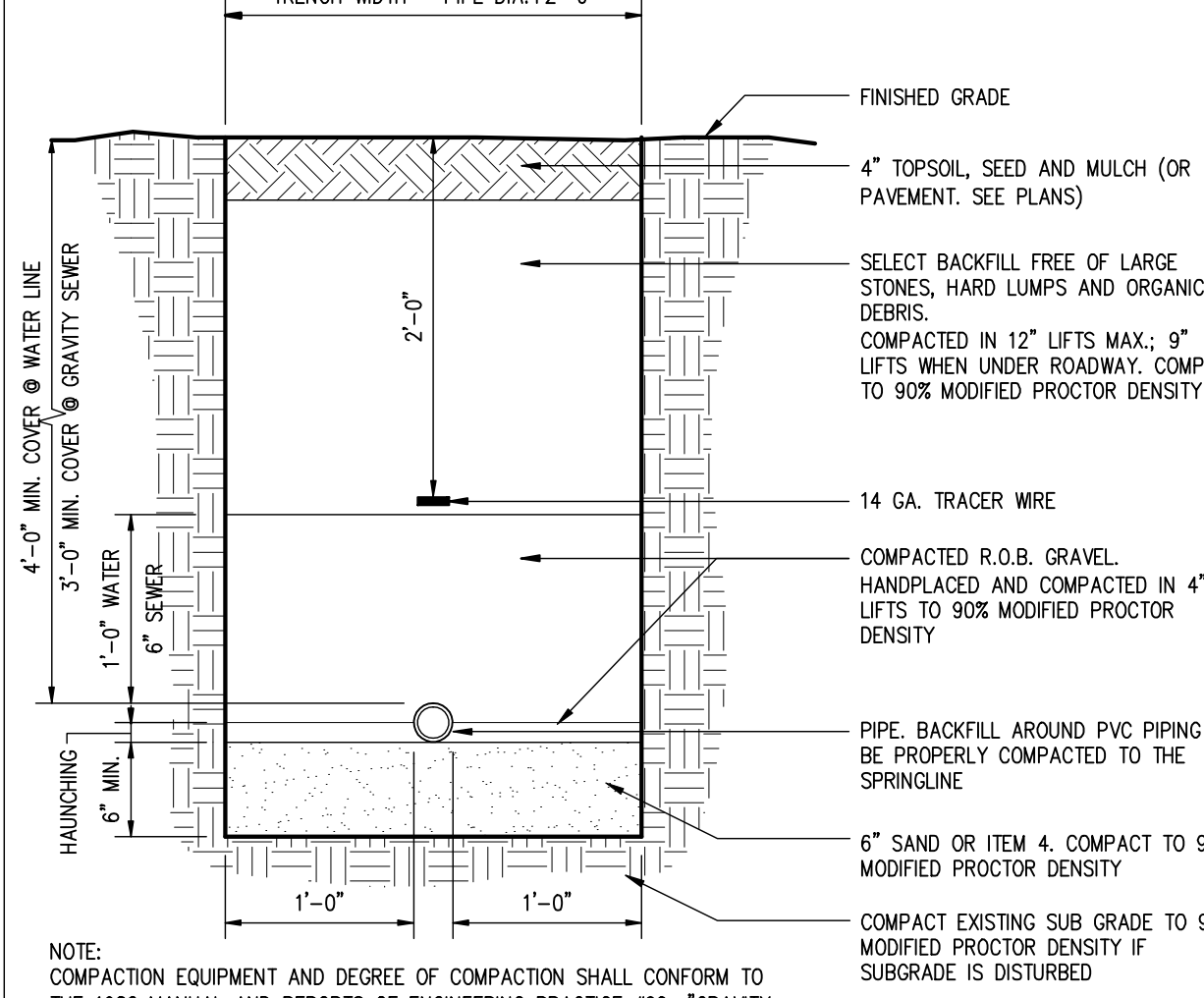
6 SEWER SERVICE CONNECTION DETAIL
C-210 N.T.S.



7 SEWER CLEANOUT DETAIL
C-210 N.T.S.

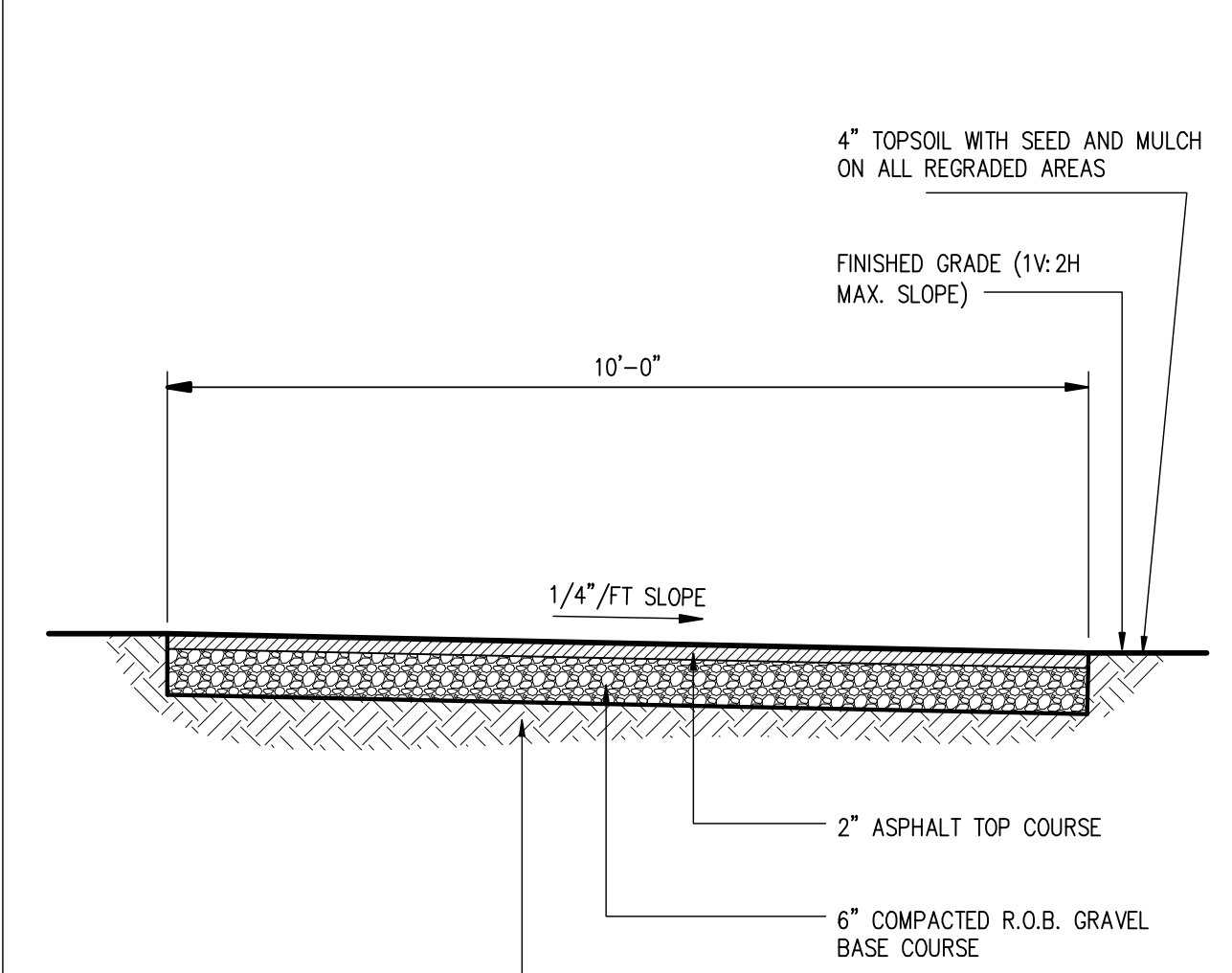


8 WATER SERVICE CONNECTION DETAIL
C-210 N.T.S.

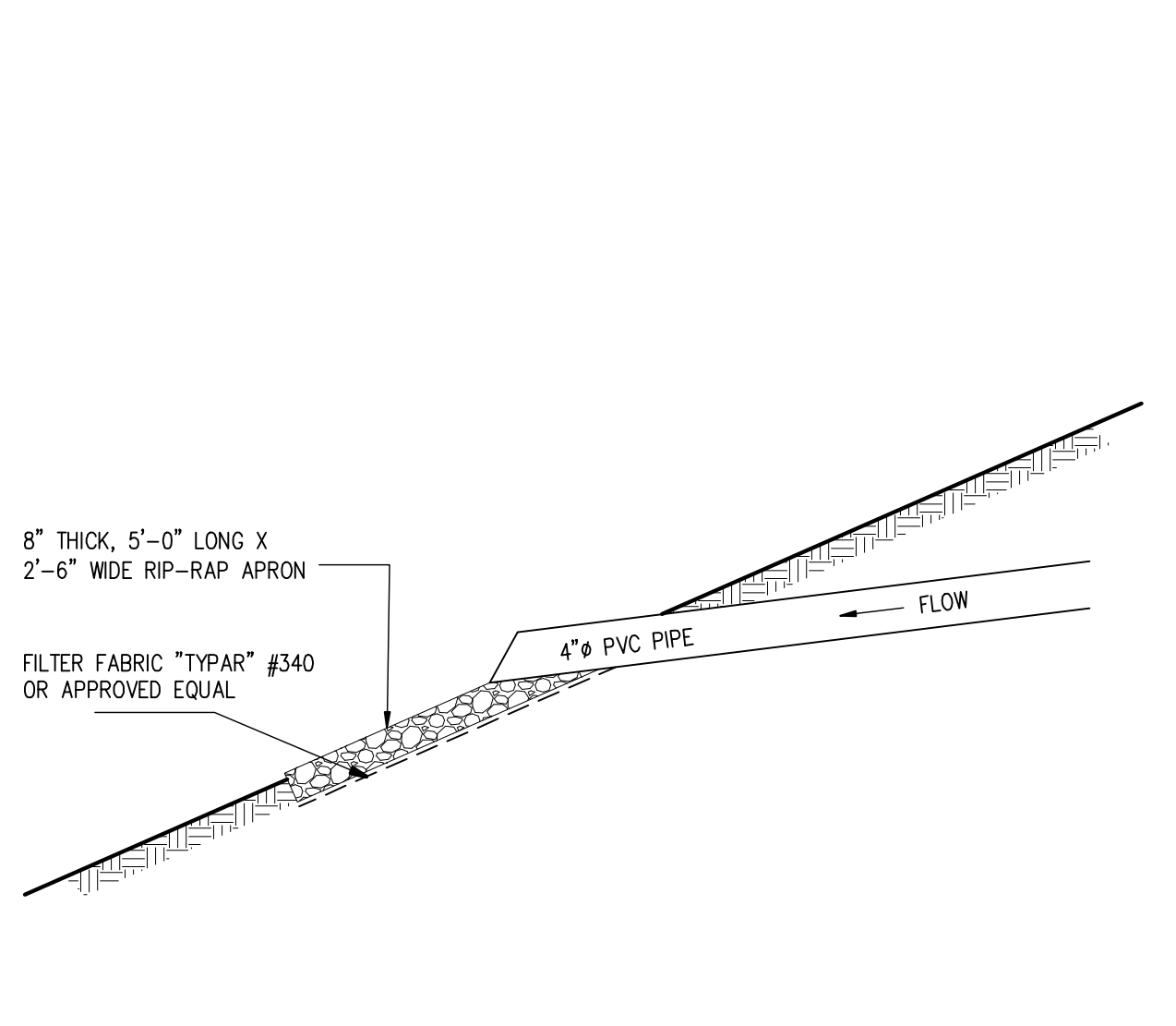


- NOTE:** COMPACTION EQUIPMENT AND DEGREE OF COMPACTION SHALL CONFORM TO THE 1982 MANUAL AND REPORTS OF ENGINEERING PRACTICE #60: "GRAVITY SANITARY SEWER DESIGN AND CONSTRUCTION" BY THE ASCE

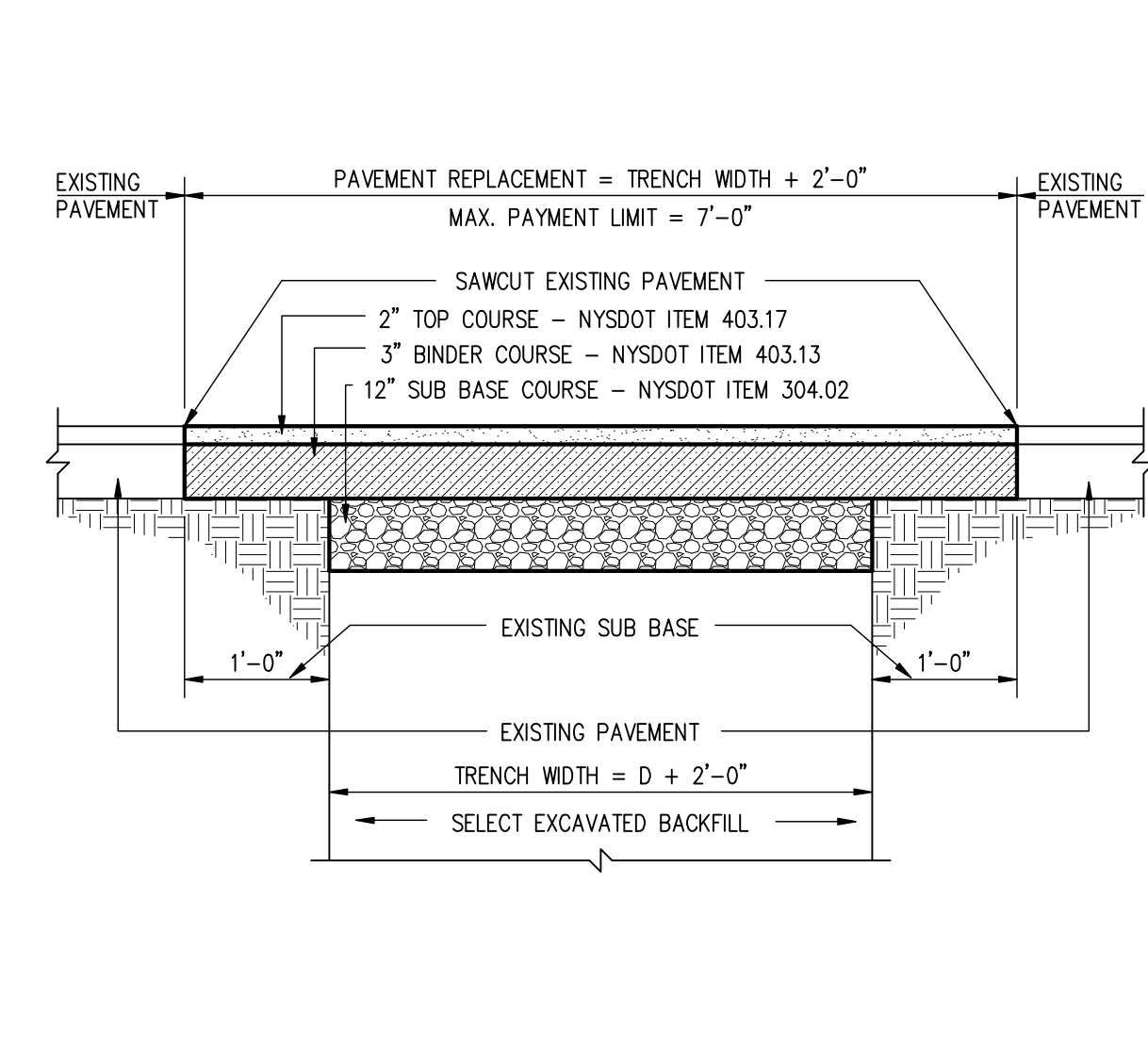
9 UTILITY TRENCH DETAIL
C-210 N.T.S.



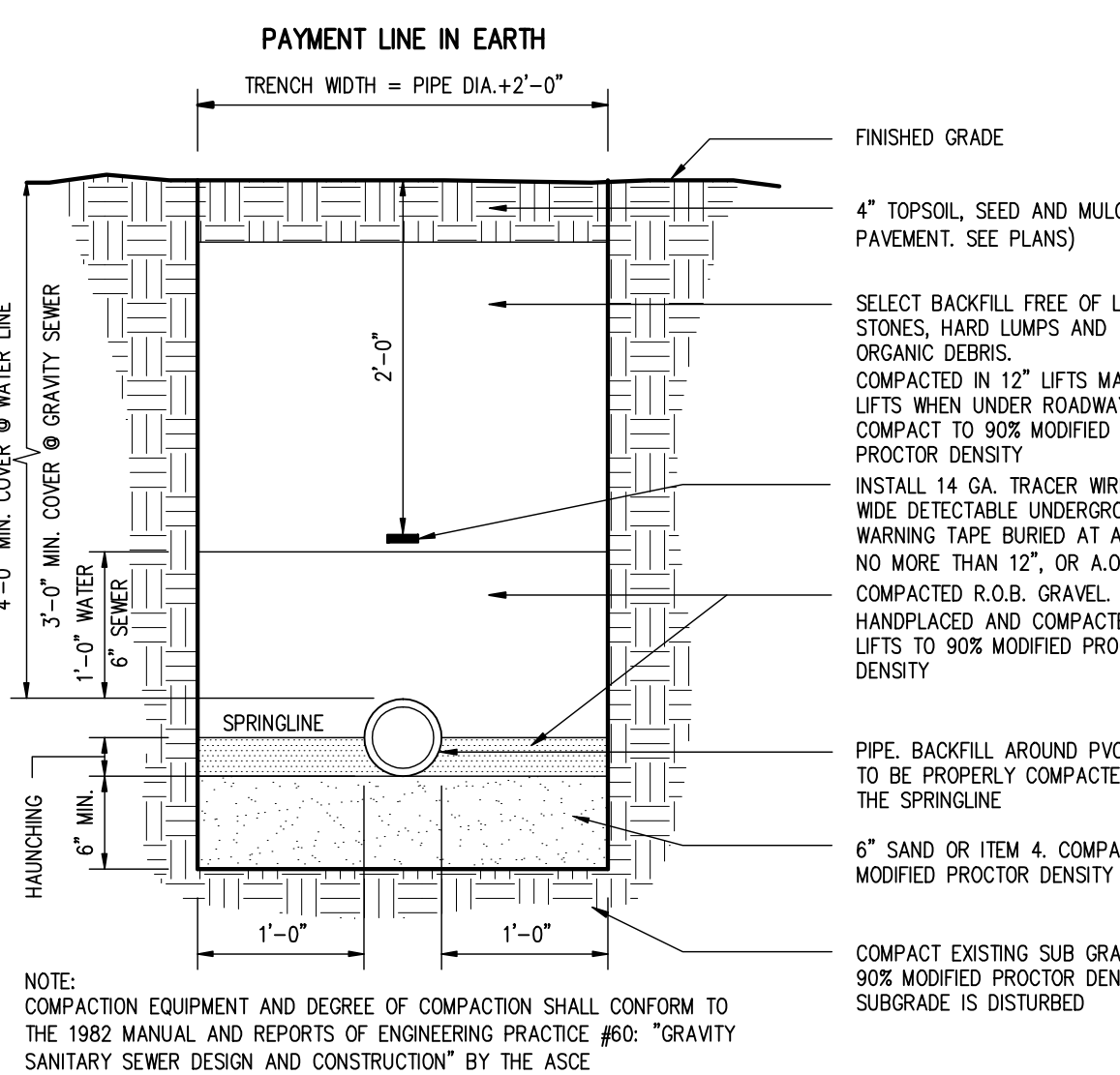
10 SINGLE FAMILY ASPHALT DRIVEWAY DTL.
C-210 N.T.S.



11 FOOTING DRAIN OUTFALL DETAIL
C-210 N.T.S.

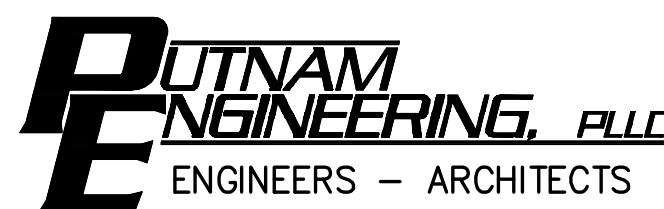


12 PAVEMENT RESTORATION DETAIL
C-210 N.T.S.



- NOTE:** COMPACTION EQUIPMENT AND DEGREE OF COMPACTION SHALL CONFORM TO THE 1982 MANUAL AND REPORTS OF ENGINEERING PRACTICE #60: "GRAVITY SANITARY SEWER DESIGN AND CONSTRUCTION" BY THE ASCE

13 SEWER and WATER TRENCH DTL.
C-210 N.T.S.



4 OLD ROUTE 6, BREWSTER, NEW YORK 10509
(845) 279-6789 FAX (845) 279-6769
● PUTNAM ENGINEERING PLLC 2014

PURSUANT TO NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 7209 SUBDIVISION 2, "IT IS A VIOLATION OF THIS LAW FOR ANY PERSON UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE SEAL OF AN ENGINEER IS ALTERED. THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION."

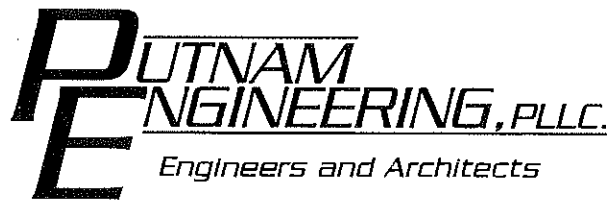
REVISIONS		PROJECT			
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	03 NOV 14	ADDED SIGHT DISTANCE & ZBA APPROVAL NOTES			
2	02 MAR 15	REVISED PER TE & TP COMMENTS			
3	16 JUN 15	REVISED PER TE MEMO			
4	18 JAN 16	REVISED TO FINAL SUBDIVISION			
5	05 DEC 19	REVISED PER TE COMMENTS			

RESIDENTIAL SUBDIVISION PREPARED FOR:
ITZLA SUBDIVISION
9 MECHANIC STREET
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP NO. 55.14, BLOCK 1, LOT 6

DATE: 29 APR 14
PROJECT MANAGER: PML
DRAWN BY: PKG
CHECKED BY: PML
SCALE: AS NOTED

DETAILS

PROJECT NUMBER: 7532
DRAWING NUMBER: C-210
SHEET 5 OF 5



August 28, 2020

Mr. Craig Paepfer, Chairman
Town of Carmel Planning Board
60 McAlpin Avenue
Mahopac, NY 10541

Re: Tompkins Recycling
60 Old Route 6
Carmel, NY
T.M. #55.11-1-15

Dear Chairman Paepfer and Members of the Board:

Re approval of the site plan was granted to 70 Old Route 6, LLC for the Tompkins Recycling Project on July 17, 2019 for a period of one year. That approval has lapsed and we request that the Board consider an extension of the site plan approval.

The project has the following permits:

1. Town of Carmel – Site Plan Approval - Expires 7/17/20
2. Town of Carmel Wetland Permit - Expires 6/30/21
3. N.Y.S.D.E.C. – Solid Waste Management Permit - Expires 2/7/24
4. N.Y.S.D.E.C. – Freshwater Wetland Permit - Expires 12/4/22
5. N.Y.C.D.E.P. – SWPPP Approval - Expires 3/29/22
6. N.Y.S.D.E.C. – General General Permit G.P.-0-10-001 Permit #NYR10Q049. This permit is valid (open) until an N.O.T. is filed to close out the project.

FEMA has issued a conditional letter of map revision (7/24/14) based on fill which will remove the property from the flood plain once as-built topographic survey is submitted verifying compliance with the design drawings.

Sincerely,

PUTNAM ENGINEERING, PLLC

A handwritten signature in black ink, appearing to be 'P. Lynch', written over a horizontal line.

Paul M. Lynch, P.E.
PML/rrm

L1939