January 8, 2021

Joseph S. Paravati Jr., P.E.
Public Health Engineer
Putnam County Department of Health
1 Geneva Road
Brewster, NY 10509

RE: JMC Project 14012
Commercial Campus at Fields Corners
NYS 312 and Pugsley Road
Town of Southeast, NY

OWTS Construction Permit

Dear Mr. Paravati:

On behalf of the applicant, Putnam Seabury Partners, LP, we have enclosed two (2) copies of the following referenced documents for your review and consideration:

1. **JMC Drawings**

Dwg. No.	Title	Rev. No.	/Date
C-010	Overall Existing Conditions Map	7	1/04/2021
C-320	Overall OWTS Map		1/06/2021
C-321	OWTS Plan 'A'		1/06/2021
C-322	OWTS Plan 'A'		1/06/2021
C-323	OWTS 'A' Profile		1/06/2021
C-324	OWTS Plan 'B'		1/06/2021
C-325	OWTS Plan 'C'		1/06/2021
C-326	OWTS Plan 'D'		1/06/2021
C-327	OWTS 'D' Profile		1/06/2021
C-328	OWTS Details		1/06/2021

2. Sanitary Engineering Report dates 01/06/2021

3. Putnam County Department of Health Application for Approval of Plans for a Wastewater Treatment System dated 01/06/2021.

4. Putnam Seabury Partners, LP check number 5368 in the amount of $3,744.00 for the septic system application fee.

5. Putnam County Department of Health Division of Environmental Health Letter of Authorization date 01/06/2021

The applicant is proposing to develop the existing 326.92 acre (Commercial Campus at Fields Corner) vacant site, located in Town of Southeast, Putnam County, New York with two state of the art highly mechanized warehouses totaling 933,100 square feet.

The site is located at the intersection of Route 312 and Pugsley Road. Due to the massive sizes of both the site and the buildings, the site has been broken up into 4 separate treatment areas discussed in the enclosed Engineering Report and depicted on the attached Drawings.

We look forward to your review. If you have any questions or require additional information please contact our office at (914) 273-5225.

Sincerely,

JMC Planning Engineering Landscape Architecture & Land Surveying PLLC

Richard P. Cordone

Richard P. Cordone
Design Manager

cc: Daniel Shedlo, PE w/enc.
Mr. Peter Gilpatric

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PUTNAM COUNTY DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH SERVICES

APPLICATION FOR APPROVAL OF PLANS FOR A WASTEWATER TREATMENT SYSTEM

1. Name and address of applicant: Putnam Seabury Partners, LP
   287 King St.
   Chappaqua, NY 10514

2. Name of Project: Commercial Campus at Fields Corners
3. Location: T/V: Town of Southeast
4. Design Professional: JMC Planning Engineering Landscape Architecture & Land Surveying, PLLC
5. Address: 120 Bedford Road, Armonk, NY
6. Drainage Basin: Middle Branch Reservoir
7. Type of Project:

_____ Private/Residential	_____ Food Service	_x_ Commercial
_____ Apartments	_____ Institutional	_____ Mobile Home Park
_____ Office Building	_____ Realty Subdivision	_____ Other (specify) _____

8. Is this project subject to State Environmental Quality Review (SEQR)?..... Yes/No YES
   Type Status (check one)..... Type I _X_ Exempt ____
   Type II ____ Unlisted ____
9. Is a Draft Environmental Impact Statement (DEIS) required?..... Yes/No Yes
10. Has DEIS been completed and found acceptable by Lead Agency?..... Yes/No Yes
11. Name of Lead Agency Planning Board
12. Is this project in an area under the control of local planning, zoning, or other officials, ordinances? ..... Yes/No Yes
13. If so, have plans been submitted to such authorities? ..... Yes/No Yes
14. Has preliminary approval been granted by such authorities? No Date granted: _____
15. Type of sewage treatment system discharge ..... _____ surface water _x_ groundwater
16. If surface water discharge, what is the stream class designation? ..... N/A
17. Waters index number (surface) ..... N/A
18. Is project located near a public water supply system? ..... Yes/No No
19. If yes, name of water supply _____ Distance to water supply _____
20. Is project site near a public sewage collection or treatment system? ..... Yes/No No
21. Name of sewage system _____ Distance to sewage system _____
22. Date test holes observed Winter 2018 23. Name of Health Inspector Eugene Reed, and Mike Budzinski
24. Project design flow (gallons per day) ..... 12,480 GPD
25. Is State Pollutant Discharge Elimination system (SPDES) Permit required? ... Yes/No Yes
26. Has SPDES Application been submitted to local DEC office? ..... Yes/No No

27. Is any portion of this project located within a designated Town or State wetland?... Yes/No Yes

28. Wetlands ID number LC-18

29. Is Wetlands Permit required? .... Yes/No Yes

Has application been made to Town or Local DEC .... Yes/No Yes

30. Does project require a DEC Stream Disturbance Permit? .... Yes/No No

31. Is or was project site used for agricultural activity involving application of pesticides to orchards or other crops, solid or hazardous waste disposal, landfilling, sludge application or industrial activity? .... Yes/No Yes

32. Is project located within 1,000 feet of existing or abandoned landfill, hazardous waste site, salt stockpile, landfill, sludge disposal site or any other potentially known source of contamination? .... Yes/No No

DESCRIBE: ______

33. Is there a local master plan on file with the Town or Village? .... Yes/No Yes

34. Are community water and/or sewer facilities planned to be developed within 15 years in or adjacent to project site? .... Yes/No No

35. Are any sewage treatment areas in excess of 15% slope? .... Yes/No No

36. Tax Map ID Number See attached .... Map ______ Block ______ Lot ______

37. Approved plans are to be returned to .... ______ Applicant X Design Professional

NOTE: All applications for review and approval of a new SSTS to be located within the NYC Watershed shall be sent to the Department, and need not be sent in duplicate to the DEP, although the project may require DEP approval of the SSTS prior to final approval by the Department. Projects within the watershed may also require DEP review and approval of other aspects of a project, such as stormwater plans or the creation of impervious surfaces, and the project applicant should obtain the appropriate forms for such activities from DEP and submit those forms to DEP for review and approval.

If the application is signed by a person other than the applicant shown in Item 1, the application must be accompanied by a Letter of Authorization (Form LA-97). Failure to comply with this provision may be grounds for the rejection of any submission.

I hereby affirm, under penalty of perjury, that information provided on this form is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

SIGNATURES & OFFICIAL TITLES: David P. [signature] (Agent for Applicant)

Mailing Address: .... JMC
120 Bedford Road
Armonk, NY 10504

Exhibit A

#	Tax ID #	#	Tax ID #	#	Tax ID #
1	45.-1-4	53	45.-3-46	105	45.-3-98
2	45.-1-5.2	54	45.-3-47	106	45.-3-99
3	45.-1-5.3	55	45.-3-48	107	45.-3-100
4	45.-1-8.1	56	45.-3-49	108	45.-3-101
5	45.-1-8.2	57	45.-3-50	109	45.-3-102
6	45.-1-8.3	58	45.-3-51	110	45.-3-103
7	45.-1-12	59	45.-3-52	111	45.-3-104
8	45.-1-13	60	45.-3-53	112	45.-3-105
9	45.-3-1	61	45.-3-54	113	45.-3-106
10	45.-3-2	62	45.-3-55	114	45.-3-107
11	45.-3-3	63	45.-3-56	115	45.-3-108
12	45.-3-4	64	45.-3-57	116	45.-3-109
13	45.-3-5	65	45.-3-58	117	45.-3-110
14	45.-3-6	66	45.-3-59	118	45.-3-111
15	45.-3-7	67	45.-3-60	119	45.-3-112
16	45.-3-8	68	45.-3-61	120	45.-3-113
17	45.-3-9	69	45.-3-62	121	45.-3-114
18	45.-3-10	70	45.-3-63	122	45.-3-115
19	45.-3-11	71	45.-3-64	123	45.-3-116
20	45.-3-12	72	45.-3-65	124	45.-3-117
21	45.-3-13	73	45.-3-66	125	45.-3-118
22	45.-3-14	74	45.-3-67	126	45.-3-119
23	45.-3-15	75	45.-3-68	127	45.-3-120
24	45.-3-16	76	45.-3-69	128	45.-3-121
25	45.-3-17	77	45.-3-70	129	45.-3-122
26	45.-3-18	78	45.-3-71	130	45.-3-123
27	45.-3-19	79	45.-3-72	131	45.-3-124
28	45.-3-20	80	45.-3-73	132	45.-3-125
29	45.-3-21	81	45.-3-74	133	45.-3-126
30	45.-3-22	82	45.-3-75	134	45.-3-127
31	45.-3-23	83	45.-3-76	135	45.-3-128
32	45.-3-24	84	45.-3-77	136	45.-3-129
33	45.-3-25	85	45.-3-78	137	45.-3-130
34	45.-3-26	86	45.-3-79	138	45.-3-131
35	45.-3-27	87	45.-3-80	139	45.-3-132
36	45.-3-28	88	45.-3-81	140	45.-3-133
37	45.-3-29	89	45.-3-82	141	45.-3-134
38	45.-3-30	90	45.-3-83	142	45.-3-135
39	45.-3-32	91	45.-3-84	143	45.-3-136
40	45.-3-33	92	45.-3-85	144	45.-3-137
41	45.-3-34	93	45.-3-86	145	45.-3-138
42	45.-3-35	94	45.-3-87	146	45.-3-139
43	45.-3-36	95	45.-3-88	147	45.-3-140
44	45.-3-37	96	45.-3-89	148	45.-3-141
45	45.-3-38	97	45.-3-90	149	45.-3-142
46	45.-3-39	98	45.-3-91	150	45.-3-143
47	45.-3-40	99	45.-3-92	151	45.-3-144
48	45.-3-41	100	45.-3-93	152	45.-3-145
49	45.-3-42	101	45.-3-94	153	45.-3-146
50	45.-3-43	102	45.-3-95	154	45.-3-147
51	45.-3-44	103	45.-3-96	155	45.-3-148
52	45.-3-45	104	45.-3-97	156	45.-3-31

Notes:

(1) Tax Lot 45.-3-148 does not appear on the Town of Southeast Tax Map.

PUTNAM COUNTY DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH SERVICES

LETTER OF AUTHORIZATION

RE: Property of Putnam Seabury Partners, LP

Located at NY 312 and Pugsley Road

T/V Southeast Tax Map # See Attached

Subdivision of

Subdivision Lot # Filed Map # 3024 3024 A-N Date Filed 06/08/2006

To whom it may concern:

This letter is to authorize David P. Lombardi
A duly licensed Professional Engineer X or Registered Architect ____ to apply for the required wastewater treatment and/or water supply permits(s) to serve the above-noted property in accordance with the standards, rules or regulations as promulgated by the Commissioner of Health of the Putnam County Department of Health, and to sign all necessary papers on my behalf in connection with this matter and to supervise the construction of said wastewater treatment and/or water supply systems in conformity with the provisions of Article 145 and/or 147 of the Education Law, the Public Health Law, and the Putnam County Sanitary Code.

Countersigned: David P Lombardi
(Design professional)

David P. Lombardi
(Print name)

P.E., R.A., # 071001
JMC Planning Engineering Landscape
Mailing Address: Architecture & Land Surveying PLLC

120 Bedford Road, Armonk

State NY Zip 10504

Telephone: (914) 273-5225

Date: 01/06/21

Email: dlombardi@jmcpllc.com

Signed: Harvey Schulweis
(Owner of property)

Harvey Schulweis
(Print name)

Mailing Address: Putnam Seabury Partners, LP

287 King Street, Chappaqua

State NY Zip 10514

Telephone: (917) 613-6862

Revised July 2013 kly

SANITARY ENGINEERING REPORT

COMMERCIAL CAMPUS AT FIELDS CORNERS

NYS ROUTE 312 & PUGSLEY ROAD
TOWN OF SOUTHEAST
PUTNAM COUNTY, NY

Owner: **Putnam Seabury Partners, LP**
287 King Street
Chappaqua, NY 10541
Contact: Harvey Schulweis
Phone: (917) 613-6862

Prepared by:

JMC Project 14012

Dated: **1/06/2021**

TABLE OF CONTENTS

APPENDICES

REFERENCED DRAWINGS FOR OWTS DESIGN:

JMC Dwg. No.	Title	Rev. No./Date
C-010	Overall Existing Conditions Map	7 1/04/2021
C-320	Overall OWTS Map	1/06/2021
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C-322	OWTS Plan 'A'	1/06/2021
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C-325	OWTS Plan 'C'	1/06/2021
C-326	OWTS Plan 'D'	1/06/2021
C-327	OWTS 'D' Profile	1/06/2021
C-328	OWTS Details	1/06/2021

I. INTRODUCTION

This Engineering Report has been prepared for the 326.92 acre Commercial Campus at Fields Corner site, located in the Town of Southeast, Putnam County, New York (hereinafter referred to as the "Site"). The site is bordered by woods to the north, farmland to the south, Interstate 84 to the east, and woods and residential developments to the west. The development has been designed in accordance with the following:

- Requirements of the Putnam County Department of Health
- NYS Department of Environmental Conservation Design Standards for Intermediate Sized Wastewater Systems dated March 5, 2014
- New York City Environmental Protection (NYCEP, formerly NYCDEP) Rules and Regulations for the Protection from Contamination, Degradation and Pollution of the New York City Water Supply and its Sources, amended November 29, 2019.

Development of this site will consist of the construction two warehouse buildings with associated parking areas. Under existing conditions, a majority of the site was once used for agriculture but is now brush and some meadow and the remaining area is wooded. Stormwater runoff from this property drains into the Middle Branch Reservoir, which is in the New York City Watershed.

II. WASTEWATER TREATMENT SYSTEMS

The wastewater treatment systems are designed to serve two proposed warehouse buildings that will be broken up into a number of different tenant spaces. The total square footage of both warehouses is 933,100 square feet. The anticipated number of employees is based on the ratio of employees to square feet of floor area on the maximum shift published by Energystar.gov for typical warehouse space. New construction highly mechanized warehouse spaces typically have lower employee densities. Accordingly, the flow rates as ascertained from the "New York State Design Standards for Intermediate Sized Treatment Systems," dated March 5, 2014, are as follows:

Building A: 375 Employees @ 15 GPD = 5,625 GPD with 20% reduction = 4,500 GPD
Building B: 665 Employees @ 15 GPD = 9,975 GPD with 20% reduction = 7,980 GPD

Due to the expansive length of the Building B, the wastewater generated will be broken into two equally sized systems with individual primary and expansion areas. Building B will require two systems sized at 3,990 GPD each for a total of 7,980 GPD and Building A will require a system sized at 4,500 GPD. Each system will have a 100% expansion area designed.

Since the Average Daily Design flow is between the ranges of 1,000 to 10,000 gpd, the facility will require coverage under NYSDEC SPDES General Permit GP-0-05-001. The applicant will file for coverage under this permit once a Construction Permit is issued by the PCDOH for the wastewater treatment systems.

Warehouse A

Warehouse A has an anticipated design flow of 4,500 GPD. Minimum Septic tank sizing calculations for Flows (Q) under 5,000 GPD (based upon NYSDEC Design Standards for Wastewater Treatment Works -2014) is 1.5 (Q). The required septic tank size is 6,750 gallons. We are proposing two 3,500 gallon precast septic tanks in series which will provide a working capacity of 7,000 gallons.

The effluent will flow from the two septic tanks into a precast pump station with accompanying valve pit. The pump station will be provided with duplex effluent pumps which will pump the effluent to a five way "Cue Box" flout system that alternately doses to five 10 outlet distribution boxes with one outlet plugged; essentially a nine outlet box. Each lateral is 100 feet long making each distribution field 900 linear feet long, less than the maximum distribution field of 1,000 linear feet. Based upon field testing conducted by SESI Consulting Engineers and witnessed by the Putnam County Department of Health and New York City Department of Environmental Protection, a percolation rate of 40 min./inch was determined resulting in an application rate of 0.5 gallons per day per square foot. Accordingly, the minimum contact area is calculated as follows:

Minimum Contact Area = Design Flow (GPD) / Application Rate (GPD / SF)
= 4,500 GPD / 0.5 GPD / SF
= 9,000 SF (Required)

Since each linear foot of septic fields provides two square feet of contact area, 4,500 linear feet of 24" wide absorption trench is provided to a primary area and a 100% expansion area.

The length of the proposed absorption trenches total 4,500 linear feet. The system will be separated into five equal sections, and automatic alternating dosing will be used to each section. Each section will have 900 linear feet of absorption fields.

The required dosage is calculated as follows:

900 L.F. at 0.5 gallon per L.F. = 450 gallons dose per section.

Automatic alternating doses will be provided by the proposed five outlet Cue Box flout system by Rissy Plastics, which will provide 450 gallon doses that alternate between each field.

Pump Station Design for Warehouse A

After the septic tanks, to direct the effluent to either the primary or expansion septic field, a pump is required. At an average daily flow of 4,500 gallons per day, with 24 hours of occupancy, the flow entering the pump chamber is 187.5 gallons per hour or 3.125 gallons per minute. To minimize septicity, fill time should not exceed 30 minutes. Accordingly, a dose of 93.75 gallons should be provided.

For the Primary field the head calculations are as follows:
Pump Sizing and design calculations are as follows:

- Elevation of pumping crest (Invert at distribution box) = 642.00
- Pump "Off" elevation in pumping station = 635.90
- Static Head = 6.10 ft.
- Head Loss in 784 linear feet of 2" force main

(Friction loss at C-150 @ 25 GPM [1.2/100]) = 9.41 ft.

- Loss in pump station and valve pit (allow) = 0.50 ft.
- Friction Head = 9.91 ft.

Total Dynamic Head (TDH) = Static Head + Friction Head

TDH = 6.10 ft. + 9.91 ft.

TDH = 16.01 ft.

Total Dynamic Head Loss say 16 feet

Accordingly, at the time of initial construction, Myers Model MEOSP50M1-20 pumps will be installed for use as a pumps for the primary septic area. Since the primary septic area and expansion areas are located in different corners of the property, a new force main and pumps will need to be installed should it ever be required. Myers Model MESPD50MH1-20 pumps will need to be retrofitted should the use of the expansion area septic system ever be required.

For the expansion field, the head calculations are as follows:

Pump Sizing and design calculations are as follows:

- Elevation of pumping crest (Invert at distribution box) = 634.50
- Pump "Off" elevation in pumping station = 635.90
- Static Head = -1.4 ft.
- Head Loss in 3,520 linear feet of 2" Force Main

(Friction loss at C-150 @ 25 GPM [1.2/100]) = 36.4 ft.

- Loss in pump station and valve pit (allow) = 0.50 ft.
- Friction Head = 36.9 ft.

Total Dynamic Head (TDH) = Static Head + Friction Head

TDH = -1.4 ft. + 36.9

TDH = 35.5 ft.

Total Dynamic Head Loss say 36 feet

Each pump will yield a flow of 25 gallons per minute at 16 feet of total dynamic head. The pump will maintain a flow velocity of 2.4 feet per second through a two inch PVC pressure pipe force main which is greater than the minimum 2.00 feet per second self cleaning velocity.

In the event of failure to the duplex pump station, a telemetry system shall transmit an emergency signal to an audible alarm. The alarm will sound for high water power failure and pump failure. The alarm will be mounted to the south side of the building. For the pump and alarm specifications, refer to Appendix B, respectively.

Since a portion of the force main for the expansion area is under the proposed pavement, this portion shall be installed at the time of the initial construction to eliminate disruption in the future.

Warehouse B

Warehouse B has an anticipated design flow of 7,980 GPD. Due to the sheer expanse of the building the flows from each side are split equally, so that half the flow is directed to two equally sized systems, one to the north of the building and one to the south. Each system is looked at individually with its own septic tanks and distribution systems for 3,990 GPD each.

Minimum Septic tank sizing calculations for Flows (Q) under 5,000 GPD (based upon NYSDEC Design Standards for Wastewater Treatment Works -1988) is 1.5 (Q). The required septic tank size is 5,985 gallons, for each system. We are hereby proposing two 6,000 gallon precast septic tanks; one for each system.

For the northern septic system, after the septic tanks the effluent will flow by gravity to a 4 way "Cue Box" flout system that alternatively doses to four 10 outlet distribution boxes. Each lateral is 100' long making each distribution field 1,000 linear feet long, the maximum allowable distribution field of 1,000 linear feet. Based upon field testing conducted by SESI Consulting Engineers and witnessed by the Putnam County Department of Health and New York City Department of Environmental Protection, a percolation rate of 40 min./inch was determined

resulting in an application rate of 0.5 gallons per day per square foot. Accordingly, the minimum contact area can be calculated as follows:

Minimum Contact Area = Design Flow (GPD) / Application Rate (GPD / SF)
= 3,990 GPD / 0.5 GPD / SF
= 7,890 SF (Required)

Since each linear foot of septic fields provides two square feet of contact area, 3,990 linear feet of 24" wide absorption trench is provided to a primary area and a 100% expansion area.

The length of the proposed absorption trenches total 4,000 linear feet. The system will be separated into four equal sections, and automatic alternating dosing will be used to each section. Each section will have 100 linear feet of absorption fields.

The required dosage is calculated as follows:

1,000 L.F. at 0.5 gallon per L.F. = 500 gallons dose per section.

Automatic alternating doses will be provided by the proposed four outlet Cue Box flout system by Rissy Plastics, which will provide a 500 gallon doses that alternates between each field.

For the southern septic system, after the septic tanks the effluent will flow by gravity to a four way "Cue Box" flout system that alternatively doses to four 10-outlet distribution boxes. Each lateral is 100 feet long making each distribution field 1,000 linear feet long; the maximum allowable distribution field of 1,000 linear feet. Based upon field testing conducted by SESI Consulting Engineers and witnessed by the Putnam County Department of Health and New York City Department of Environmental Protection, a percolation rate of 30 min./inch was determined resulting in an application rate of 0.6 gallons per day per square foot. Accordingly, the minimum contact area is calculated as follows:

Minimum Contact Area = Design Flow (GPD) / Application Rate (GPD / SF)
= 3,990 GPD / 0.6 GPD / SF
= 6,650 SF (Required)

Since each linear foot of septic fields provides two square feet of contact area, 3,325 linear feet of 24" wide absorption trench is provided to a primary area and an 100% expansion area.

The length of the proposed absorption trenches total 3,348 linear feet. The system will be separated into four equal sections, and automatic alternating dosing will be used to each section. Each section will have 93 linear feet of absorption fields.

The required dosage is calculated as follows:

837 L.F. at 0.5 gallon per L.F. = 418.5 gallons dose per section.

Though groundwater was generally not encountered in the septic areas, some mottling was encountered. To maximize the separation between ground water and the bottom of the treatment systems seven foot deep curtain drains will be installed.

III. CONCLUSION

This Engineering report has been prepared to describe the project's proposed methods for handling sanitary discharge. This design has considered the requirements and guidelines of the following:

- New York State Department of Environmental Conservation (NYSDEC) Design Standards for Intermediate Sized Wastewater Treatment Systems last revised March 5, 2014.
- New York City Environmental Protection (NYCEP, formerly NYCDEP) Rules and Regulations for the Protection from Contamination, Degradation and Pollution of the New York City Water Supply and its Sources, amended November 29, 2019.
- Recommended Standards for Wastewater Facilities (10 States Standards) 2014 Edition.

Based on the foregoing, it is our professional opinion that the proposed improvements will provide wastewater treatment which exceeds the above-mentioned requirements and are not anticipated to have any adverse impacts to the site or any surrounding areas.

APPENDIX A

SOIL TESTING DATA FROM THE GEOTECHNICAL REPORT

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP-1
LOCATION	SEE FIGURE 1	APPROX. ELEV.	626.0±'	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 2±'; Heavy seepage at 3±'			DATE EXCAVATED	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	4" Topsoil	
1	Light Brown Silt, some coarse to fine Sand, trace Gravel (USCS: CL)	Medium Stiff
2	Percolation Rate = 60 min/in @ Elv. 624.1	Medium Stiff
3	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel with frequent cobbles and occasional Boulder (USCS: CL)	
4		
5		to
6		
7		
8		Stiff
9	Test Pit Completed at 8± Feet	
10		
11		
12		
13		
14		

NOTE:

SESI CONSULTING ENGINEERS

Fig. 111

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP-2
LOCATION	SEE FIGURE 1	APPROX. ELEV.	628.0±'	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 2±'			DATE EXCAVATED	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	4" Topsoil	
1	Light Brown Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles (USCS: CL)	Medium Stiff
3	Percolation Rate: 120 min/in @ Elv. 626 Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles (USCS: CL)	Medium Stiff
9	Test Pit Completed at 8.5± Feet	

NOTE:

SESI CONSULTING ENGINEERS

Fig. 112

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP-3
LOCATION	SEE FIGURE 1	APPROX. ELEV.	632±'	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 6±'			DATE EXCAVATED	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	6" Topsoil	
1	Light Brown/Yellow coarse to fine Sand, and Silt, trace Gravel (USCS: SM)	Medium Dense
2		
3	Percolation Rate = 40 min/in @ Elv. 630 Light Brown Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles (USCS: CL)	Medium Stiff
4		
5	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles and boulders (USCS: CL)	Medium Stiff
6		
7		
8		
9		
10	Test Pit Completed at 9.5± Feet	
11		
12		
13		
14		

NOTE:

SESI CONSULTING ENGINEERS

Fig. 113

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP-4
LOCATION	SEE FIGURE 1	APPROX. ELEV.	631.0±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 6'10"±			DATE EXCAVATED	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	6" Topsoil	
1	Light Brown/Yellow coarse to fine Sand, and Silt, trace Gravel (USCS: SM)	Medium Dense
2	Percolation Rate = 30 min/in @ Elv. 629.1 Light Brown Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles (USCS: CL)	Medium Stiff
4	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles (USCS: CL)	Medim Stiff to Stiff
9	Test Pit Completed at 9.1± Feet	
10		
11		
12		
13		
14		

NOTE:

SESI CONSULTING ENGINEERS

Fig. 114

PROJECT NO.	9999	PROJECT	Southeast, NY	TEST PIT NO.	STP- 5
LOCATION	SEE FIGURE 1	APPROX. ELEV.	618'±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 3'4"±			DATE EXCAVATED	3/22/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	3" Topsoil	
1	Light-brown SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles (USCS : SC/CL)	Medium Stiff
2		
3	Percolation Rate = 40 min/in @ Elv. 616 Light-brown mottled SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles (USCS : SC/CL)	Medium Stiff
4		
5		
6		
7		
8		
9		
10	End of Test Pit at 9.5± Feet	
11		
12		
13		
14		

NOTE:

Fig. 115

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Southeast, NY	TEST PIT NO.	STP- 6
LOCATION	SEE FIGURE 1	APPROX. ELEV.	613'±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 8'10"±			DATE EXCAVATED	3/22/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light-brown SILT, and coarse to fine Sand, trace Gravel (USCS : SC/CL) Percolation Rate = 15 min/in @ Elv. 610.9	Medium Stiff
4	Light-brown mottled SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles (USCS : SC/CL)	Medium Stiff
11	End of Test Pit at 10.5± Feet	

NOTE:

Fig. 116

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP-7
LOCATION	SEE FIGURE 1	APPROX. ELEV.	616.0±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 6.5±			DATE EXCAVATED	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	6" Topsoil	
1	Light Brown Silt, and coarse to fine Sand, trace Gravel	Medium Stiff
2	(USCS: CL)	
3	Percolation Rate = 40 min/in @ Elv. 614.0	
4	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel	Medium Stiff
5	with occassional cobbles	
6	(USCS: CL)	to
7		
8		Stiff
9	Test Pit Completed at 8.5± Feet	
10		
11		
12		
13		
14		

NOTE:

SESI CONSULTING ENGINEERS

Fig. 117

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP-8
LOCATION	SEE FIGURE 1	APPROX. ELEV.	619.0±'	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 6±'			DATE EXCAVATED	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	3" Topsoil	
1	Light Brown/Yellow medium to fine Sand, and Silt, trace Gravel (USCS: SM)	Medium Dense
2	Light Brown Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles (USCS: CL) Percolation Rate = 120 min/in @ Elv. 617.0	Medium Stiff
4	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles (USCS: CL)	Medium Stiff
9	Test Pit Completed at 9± Feet	
10		
11		
12		
13		
14		

NOTE:

SESI CONSULTING ENGINEERS

Fig. 118

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP-9
LOCATION	SEE FIGURE 1	APPROX. ELEV.	644.0±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 4±'			DATE EXCAVATED	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	6" Topsoil	
1	Light Brown Silt, some coarse to fine Sand, trace Gravel	Medium Stiff
	(USCS: CL)	
2	Percolation Rate = 40 min/in @ Elv. 642.0	
3	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel	Medium Stiff
	with occassional cobbles	
4	(USCS: CL)	
5		
6		
7		
8		
9		
	Test Pit Completed at 9± Feet	
10		
11		
12		
13		
14		

NOTE:

SESI CONSULTING ENGINEERS

Fig. 119

PROJECT NO.	9999	PROJECT	Southeast, NY	TEST PIT NO.	STP- 10
LOCATION	SEE FIGURE 1	APPROX. ELEV.	645'±	INSPECTED BY	JQ
WATER OBSERVATION	Light seepage at 4'9"±; Heavy at 5'2"±			DATE EXCAVATED	3/22/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light-brown SILT, and coarse to fine Sand, trace Gravel	Medium Stiff
2	(USCS : SC/CL)	
	Percolation Rate = 20 min/in @ Elv. 643.0	
3		
4	Light-brown mottled SILT, some coarse to fine Sand, trace Gravel,	Medium Stiff
	with occassional cobbles	
5	(USCS : SC/CL)	
6		to
7		
8		Stiff
9		
10	End of Test Pit at 9.0± Feet	
11		
12		
13		
14		

NOTE:

Fig. 120

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Southeast, NY	TEST PIT NO.	STP- 11
LOCATION	SEE FIGURE 1	APPROX. ELEV.	645'±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 7'6"±			DATE EXCAVATED	3/22/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	10" Topsoil	
1	Light-brown SILT, and coarse to fine Sand, trace Gravel (USCS : SC/CL) Percolation Rate = 15 min/in @ Elv. 643.0	Medium Stiff
3	Light-brown mottled SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles (USCS : SC/CL)	Medium Stiff
9	End of Test Pit at 9.0± Feet	
14		

NOTE:

Fig. 121

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP-12
LOCATION	SEE FIGURE 1	APPROX. ELEV.	645.0±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 4±			DATE EXCAVATED	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	6" Topsoil	
1	Light Brown Silt, and coarse to fine Sand, trace Gravel (USCS: CL)	Medium Stiff
3	Percolation Rate = 60 min/in @ Elv. 643.0 Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles (USCS: CL)	Medium Stiff
9	Test Pit Completed at 8.5± Feet	

NOTE:

SESI CONSULTING ENGINEERS

Fig. 122

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP-13
LOCATION	SEE FIGURE 1	APPROX. ELEV.	639.0±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 4±'			DATE EXCAVATED	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	6" Topsoil	
1	Light Brown Silt, some coarse to fine Sand, trace Gravel (USCS: CL) Percolation Rate = 30 min/in @ Elv. 637.0	Medium Stiff
4	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles and boulder (USCS: CL)	Medium Stiff
9	Test Pit Completed at 9± Feet	

NOTE:

SESI CONSULTING ENGINEERS

Fig. 123

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP-14
LOCATION	SEE FIGURE 1	APPROX. ELEV.	639.0±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 6±'			DATE EXCAVATED	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light Brown Silt, and coarse to fine Sand, trace Gravel (USCS: CL)	Medium Stiff
3	Percolation Rate = 10 min/in @ Elv. 637.0 Light Brown Silt, some coarse to fine Sand, trace Gravel (USCS: CL)	Medium Stiff
4	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles (USCS: CL)	Medium Stiff to Stiff
9	Test Pit Completed at 9.25±'	
14		

NOTE:

SESI CONSULTING ENGINEERS

Fig. 124

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP-15
LOCATION	SEE FIGURE 1	APPROX. ELEV.	639.0±	INSPECTED BY	JQ
WATER OBSERVATION	Light seepage at 4.5±'; Heavy seepage at 7±'			DATE EXCAVATED	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	9" Topsoil	
1	Light Brown Silt, and coarse to fine Sand, trace Gravel	Medium Stiff
2	(USCS: CL)	
3	Percolation Rate = 2.3 min/in @ Elv. 637.0	
4	Light Brown mottled Silt, some coarse to fine Sand, little coarse to fine	Medium Stiff
5	Gravel with occassional cobbles	
6	(USCS: CL)	to
7		
8		
9		Stiff
10	Test Pit Completed at 9± Feet	
11		
12		
13		
14		

NOTE:

SESI CONSULTING ENGINEERS

Fig. 125

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP-16
LOCATION	SEE FIGURE 1	APPROX. ELEV.	638.0±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 3±'			DATE EXCAVATED	3/28/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	4" Topsoil	
1	Light Brown Silt, some coarse to fine Sand, trace Gravel (USCS: CL)	Medium Stiff
2	Percolation Rate = 15 min/in @ Elv. 636.0	Medium Stiff
3	Light Brown mottled Clayey Silt, some coarse to fine Sand, little coarse to fine Gravel with occassional cobbles	
4	(USCS: CL)	
5		
6		
7		
8		
9		
10	Test Pit Completed at 9± Feet	
11		
12		
13		
14		

NOTE:

SESI CONSULTING ENGINEERS

Fig. 126

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP- 17
LOCATION	SEE FIGURE 1	APPROX. ELEV.	638'±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 7'			DATE EXCAVATED	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	6" Topsoil	
1 – 5	Light-brown SILT, some medium to fine Sand, trace Gravel Percolation Rate = 30 min/in @ Elv. 636.0	Medium Stiff
6 – 10	Light-brown mottled SILT, some medium to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
11 – 14	End of Test Pit at 10.1 Feet	

NOTE:

Fig. 127

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP- 18
LOCATION	SEE FIGURE 1	APPROX. ELEV.	640'±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 7'			DATE EXCAVATED	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light-brown/yellow SILT, and medium to fine Sand, trace Gravel	Medium Stiff
2		
3	Light-brown SILT, some medium to fine Sand, little coarse to fine Gravel Percolation Rate = 17.1 min/in @ Elv. 638.0	Medium Stiff
4		
5		
6	Light-brown mottled SILT, some medium to fine Sand, little coarse to fine Gravel, with occassional cobbles and boulder	Medium Stiff
7		
8		
9		
10		
11	End of Test Pit at 10.2 Feet	
12		
13		
14		

NOTE:

Fig. 128

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP- 19
LOCATION	SEE FIGURE 1	APPROX. ELEV.	649'±	INSPECTED BY	JQ
WATER OBSERVATION		8'+		DATE EXCAVATED	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light-brown/yellow coarse to fine Sand, some Silt, little coarse to fine Gravel, with occassional cobbles and boulders	Medium Dense
2		
3	Light-brown SILT, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles and boulders Percolation Rate = 17.1 min/in @ Elv. 647.0	Medium Stiff
4		
5	Light-brown coarse to fine Sand, and mottled Silt, little coarse to fine Gravel, with occassional cobbles and boulders	Medium Stiff
6		
7		
8		
9		
10		
11	End of Test Pit at 10.5 Feet	
12		
13		
14		

NOTE:

Fig. 129

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP- 20
LOCATION	SEE FIGURE 1	APPROX. ELEV.	648'±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 8'5"			DATE EXCAVATED	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	6" Topsoil	
1	Light-brown/yellow medium to fine Sand, and Silt, trace Gravel Percolation Rate = 30 min/in @ Elv. 646.0	Medium Dense
3	Light-brown SILT, and medium to fine Sand, little coarse to fine Gravel	Medium Dense
5	Light-brown mottled Silt, some medium to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
10	End of Test Pit at 10.0 Feet	
11		
12		
13		
14		

NOTE:

Fig. 130

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP- 21
LOCATION	SEE FIGURE 1	APPROX. ELEV.	638'±	INSPECTED BY	JQ
WATER OBSERVATION	Not Encountered			DATE EXCAVATED	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	12" Topsoil	
1	Light-brown/yellow coarse to fine Sand, and Silt, trace Gravel	Medium Dense
2	Light-brown SILT, and medium to fine Sand, little coarse to fine Gravel	Medium Stiff
3	Percolation Rate = 10 min/in @ Elv. 636.0	
4	Light-brown mottled Silt, some medium to fine Sand, little coarse to fine	Medium Stiff
5	Gravel, with occassional cobbles	
6		to
7		
8		Stiff
9		
10	End of Test Pit at 9.5 Feet	
11		
12		
13		
14		

NOTE:

Fig. 131

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP- 22
LOCATION	SEE FIGURE 1	APPROX. ELEV.	646'±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 9'±			DATE EXCAVATED	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	4" Topsoil	
1–2	Light-brown SILT, some coarse to fine Sand, trace Gravel with occassional cobbles Percolation Rate = 30 min/in @ Elv. 644.0	Medium Stiff
5–10	Light-brown mottled Silt, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
11	End of Test Pit at 10.5 Feet	
14		

NOTE:

Fig. 132

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP- 23
LOCATION	SEE FIGURE 1	APPROX. ELEV.	644'±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 8'±			DATE EXCAVATED	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	4" Topsoil	
1	Light-brown/yellow SILT, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
2		
3	Light-brown SILT, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles Percolation Rate = 15 min/in @ Elv. 642.0	Medium Stiff
4		
5	Light-brown mottled SILT, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles and boulders	Medium Stiff
6		
7		
8		
9		
10		
11	End of Test Pit at 10.3 Feet	
12		
13		
14		

NOTE:

Fig. 133

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP- 24
LOCATION	SEE FIGURE 1	APPROX. ELEV.	649'±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 7'4"±			DATE EXCAVATED	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light-brown/yellow SILT, some medium to fine Sand, trace Gravel	Medium Stiff
2	Light-brown SILT, some medium to fine Sand, little coarse to fine Gravel, Percolation Rate = 10 min/in @ Elv. 647.0	Medium Stiff
3		
4	Light-brown mottled SILT, some medium to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
5		
6		
7		
8		
9		
10		
11	End of Test Pit at 10.2 Feet	
12		
13		
14		

NOTE:

Fig. 134

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP- 25
LOCATION	SEE FIGURE 1	APPROX. ELEV.	657'±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 5'6"±			DATE EXCAVATED	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light-brown/yellow coarse to fine SAND, and Silt, little coarse to fine Gravel	Medium Dense
2	Percolation Rate = 40 min/in @ Elv. 655.0 Light-brown SILT, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
4	Light-brown mottled SILT, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
8	End of Test Pit at 8.0 Feet	
14		

NOTE:

Fig. 135

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP- 26
LOCATION	SEE FIGURE 1	APPROX. ELEV.	655'±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 6.5'±			DATE EXCAVATED	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	4" Topsoil	
1	Light-brown SILT, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
3	Percolation Rate = 13.3 min/in @ Elv. 653.0 Brown coarse to fine SAND, some Silt, trace Gravel	Medium Dense
7	Light-brown mottled SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles	Medium Stiff
8	End of Test Pit at 8.0 Feet	
14		

NOTE:

Fig. 136

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP- 27
LOCATION	SEE FIGURE 1	APPROX. ELEV.	652'±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 8'±			DATE EXCAVATED	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	4" Topsoil	
1	Light-brown SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles Percolation Rate = 24 min/in @ Elv. 650.0	Medium Stiff
5	Light-brown mottled SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles	Medium Stiff
9	End of Test Pit at 9.0 Feet	
14		

NOTE:

Fig. 137

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP- 28
LOCATION	SEE FIGURE 1	APPROX. ELEV.	648'±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 8'±			DATE EXCAVATED	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light-brown/yellow coarse to fine SAND, and Silt, trace Gravel	Medium Dense
2		
3	Percolation Rate = 7.2 min/in @ Elv. 646.0 Light-brown SILT, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
4		
5		
6	Light-brown mottled SILT, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
7		
8		
9	End of Test Pit at 8.5 Feet	
10		
11		
12		
13		
14		

NOTE:

Fig. 138

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP- 29
LOCATION	SEE FIGURE 1	APPROX. ELEV.	657'±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 7'±			DATE EXCAVATED	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	4" Topsoil	
1	Light-brown SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles Percolation Rate = 10 min/in @ Elv. 655.0	Medium Dense
3	Brown/gray mottled SILT, some coarse to fine Sand, trace Gravel	Medium Stiff
9	End of Test Pit at 8.5 Feet	

NOTE:

Fig. 139

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP- 30
LOCATION	SEE FIGURE 1	APPROX. ELEV.	655'±	INSPECTED BY	JQ
WATER OBSERVATION	Light seepage at 5'5"±; Heavy at 6'±			DATE EXCAVATED	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light-brown/yellow coarse to fine SAND, and Silt, trace Gravel	Medium Dense
2	Percolation Rate = 30 min/in @ Elv. 653.0	Medium Stiff
3	Light-brown SILT, some coarse to fine Sand, trace Gravel, with occasional cobbles	
4	Light-brown mottled SILT, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
5		
6		
7		
8		
9		
10	End of Test Pit at 9.0 Feet	
11		
12		
13		
14		

NOTE:

Fig. 140

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP- 31
LOCATION	SEE FIGURE 1	APPROX. ELEV.	652'±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 7'±			DATE EXCAVATED	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	4" Topsoil	
1	Light-brown/yellow SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles Percolation Rate = 10.9 min/in @ Elv. 650.0	Medium Stiff
3	Light-brown mottled SILT, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
9	End of Test Pit at 9.0 Feet	
14		

NOTE:

Fig. 141

SESI CONSULTING

PROJECT NO.	9999	PROJECT	Prop. Logistics Center	TEST PIT NO.	STP- 32
LOCATION	SEE FIGURE 1	APPROX. ELEV.	647'±	INSPECTED BY	JQ
WATER OBSERVATION	Seepage at 6.5'±			DATE EXCAVATED	3/19/2018

DEPTH FT.	DESCRIPTION / SOIL CLASSIFICATION	RELATIVE DENSITY OR CONSISTENCY
0	8" Topsoil	
1	Light-brown/yellow coarse to fine SAND, and Silt, trace Gravel	Medium Dense
2	Percolation Rate = 12 min/in @ Elv. 645.0	
3	Light-brown SILT, some coarse to fine Sand, trace Gravel, with occassional cobbles	Medium Stiff
4		
5	Light-brown mottled SILT, some coarse to fine Sand, little coarse to fine Gravel, with occassional cobbles	Medium Stiff
6		
7		
8		
9	End of Test Pit at 8.0 Feet	
10		
11		
12		
13		
14		

NOTE:

Fig. 142

SESI CONSULTING

APPENDIX B

PUMP STATION CUT SPECIFICATIONS

PENTAIR

MYERS® MEOSP50
SUBMERSIBLE EFFLUENT PUMP

WWW.FEMYERS.COM

MEOSP50
Submersible Effluent Pump

Applications

- Septic Tank Effluent
- Flood Control Units
- Industrial Circulators
- Elevator Pits
- Basement Sumps

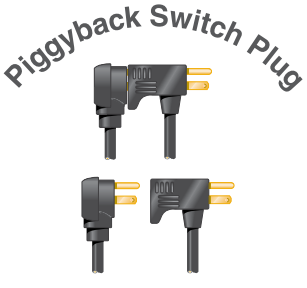
The Myers MEOSP50 submersible pump is specifically designed to meet the demands of residential sump, elevator pit, septic tank effluent, industrial circulator and transfer tank applications.

The 1-1/2 inch NPT discharge pump is available with a powerful 1/2 horsepower motor, in both automatic and manual configurations, and can handle capacities up to 60 gallons per minute and heads to 25 feet.

The MEOSP50 features a heavy-duty cast iron construction that provides durability in rugged applications, as well as assisting in dissipating heat from the motor, for cooler operation. The pump's impeller, which is threaded to a stainless steel shaft, provides long life even in demanding applications, and is capable of handling up to 5/8 inch spherical solids and lint.

The MEOSP50's oil-filled motor provides superior cooling characteristics, allowing the motor to run cool and quiet for years. This oil-filled design also provides permanent lubrication of the shaft bearings, minimizing maintenance and extending the service life of the pump. In addition, to protect against overheating, the motor windings contain an automatic reset thermal overload.

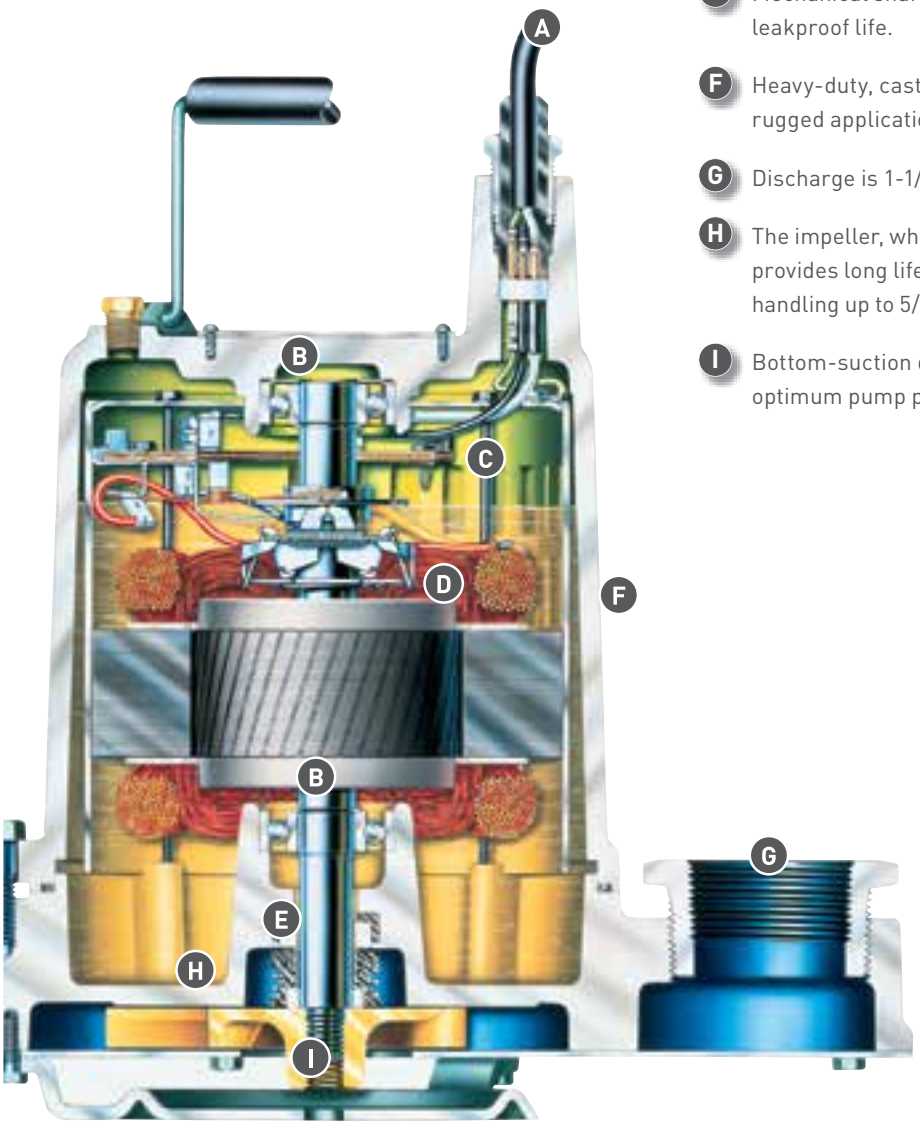
Automatic models feature the exclusive Myers diaphragm pressure switch, which provides proven reliability in installations where a float might hang up. It also incorporates a unique "piggyback" plug arrangement, which allows for simple conversion to manual operation by simply removing the switch plug and inserting the motor plug directly into the electrical outlet. This feature provides an easy way of periodically cycling the pump to ensure it is operating properly.



MEOSP50

The MEOSP50 is a completely submersible pump for use in basement sump, elevator pit, septic tank effluent, industrial circulator, and transfer tank applications.

Automatic models feature the exclusive Myers diaphragm pressure switch with "piggyback" plug-in arrangement, which provides proven reliability in installations where a float might hang up. Switch is easily serviced and may be easily disconnected to operate pump manually.



- **A** Water-resistant power cord with molded plug is available in 10 or 20 foot lengths, and is easily field serviceable.
- **B** Upper and lower ball bearings support motor shaft, minimizing the effects of impeller thrust loads. This design results in minimum friction and perfect alignment of rotor, for longer service from pump.
- **C** Oil-filled motor provides superior cooling and permanent lubrication of bearings, minimizing maintenance and extending service life.
- **D** Powerful 1/2 HP motor runs cool and quiet for long life. Motor windings contain automatic-reset, thermal overload protection.
- **E** Mechanical shaft seal is carbon- and ceramic-faced for long, leakproof life.
- **F** Heavy-duty, cast iron construction provides long life in rugged applications.
- **G** Discharge is 1-1/2 inch NPT.
- **H** The impeller, which is threaded to a stainless steel shaft, provides long life in corrosive applications, and is capable of handling up to 5/8 inch spherical solids and lint.
- **I** Bottom-suction design alleviates buildup of debris, providing optimum pump performance and reduced maintenance.

MEOSP50

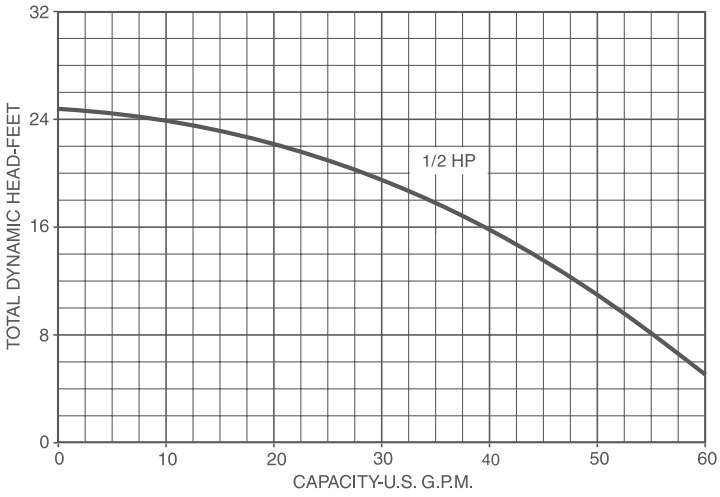
PUMP CHARACTERISTICS

Pump/Motor Unit	Submersible	
Manual Models	MEOSP50MI	MEOSP50M2
Automatic Models	MEOSP50AI	MEOSP50A2
Horsepower	1/2	
Full Load Amps	9.5	5.2
Motor Type	Split Phase	
R.P.M.	1750	
Phase Ø	1	
Voltage	115	230
Hertz	60	
Intermittent Liquid Temperature	140°F	
NEMA Design	B	
Insulation	Class F	
Discharge Size	1-1/2" NPT	
Solids Handling	5/8"	
Unit Weight	50 lbs.	
Power Cord	16/3, SJTW, SJTOOW 10' std. (20 opt.)	16/3, SJTOOW 20' std.

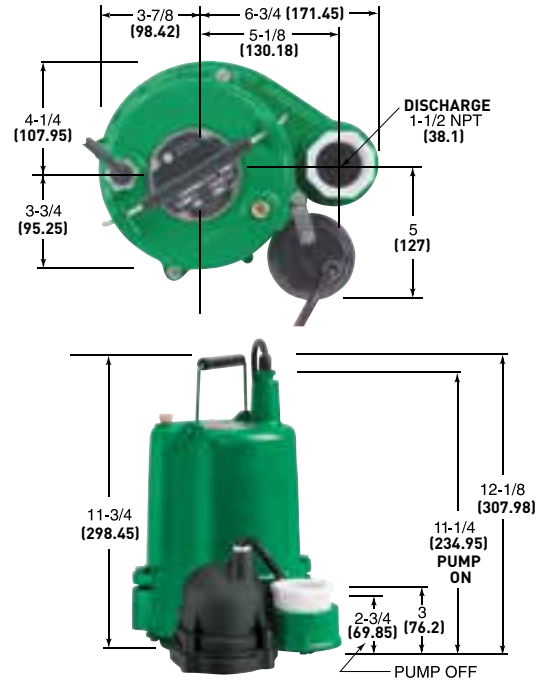
MATERIALS OF CONSTRUCTION

Handle	Steel
Lubricating Oil	Dielectric Oil
Motor Housing	Cast Iron
Pump Casing	Cast Iron
Shaft	Stainless Steel
Mechanical Shaft Seal	Seal Faces: Carbon/Ceramic Spring: Stainless Steel Bellows: Buna-N
Impeller	Composite Impeller (Bronze - Optional)
Upper Bearing	Single Row Ball Bearing
Lower Bearing	Single Row Ball Bearing
Base	Cast Iron
Fasteners	Stainless Steel

PERFORMANCE DATA



DIMENSIONAL DATA



All dimensions in inches. Metric for international use. Component dimensions may vary ± 1/8 inch. Dimensional data not for construction purpose unless certified. Dimensions and weights are approximate. On/Off level adjustable.

PENTAIR

USA
293 WRIGHT STREET, DELAVAN, WI 53115 WWW.FEMYERS.COM
PH: 888-987-8677 ORDERS FAX: 800-426-9446

CANADA
490 PINEBUSH ROAD, UNIT 4, CAMBRIDGE, ONTARIO, N1T 0A5
PH: 519-896-2163 ORDERS FAX: 519-896-6337

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PENTAIR

MESPD100 Shown

MYERS® MESPD50/MESPD100 SUBMERSIBLE EFFLUENT PUMP

Septic Tank Effluent • High-Capacity Sump • High-Head Dewatering

WWW.FEMYERS.COM

MESPD50/100
Submersible Effluent Pump

MESPD100

The Myers MESPD50/100H can handle capacities up to 110 gallons per minute and heads to 50 feet, while the MESPD100 handles capacities up to 140 gallons per minute and heads to 63 feet.

These pumps feature a high-quality cast iron pump volute, motor housing and seal housing construction that help to ensure a long service life. The pump's non-clogging, two-vane, cast iron impeller, which is threaded to a stainless steel shaft, is capable of handling up to 3/4 inch spherical solids – providing long life in demanding applications. A seal-failure sensor probe (for connection to a seal failure alarm) is standard on three-phase units and available as an option on single-phase models. Two carbon- and ceramic-faced mechanical shaft seals are mounted in tandem to provide double protection against water entry for a long, leakproof life.

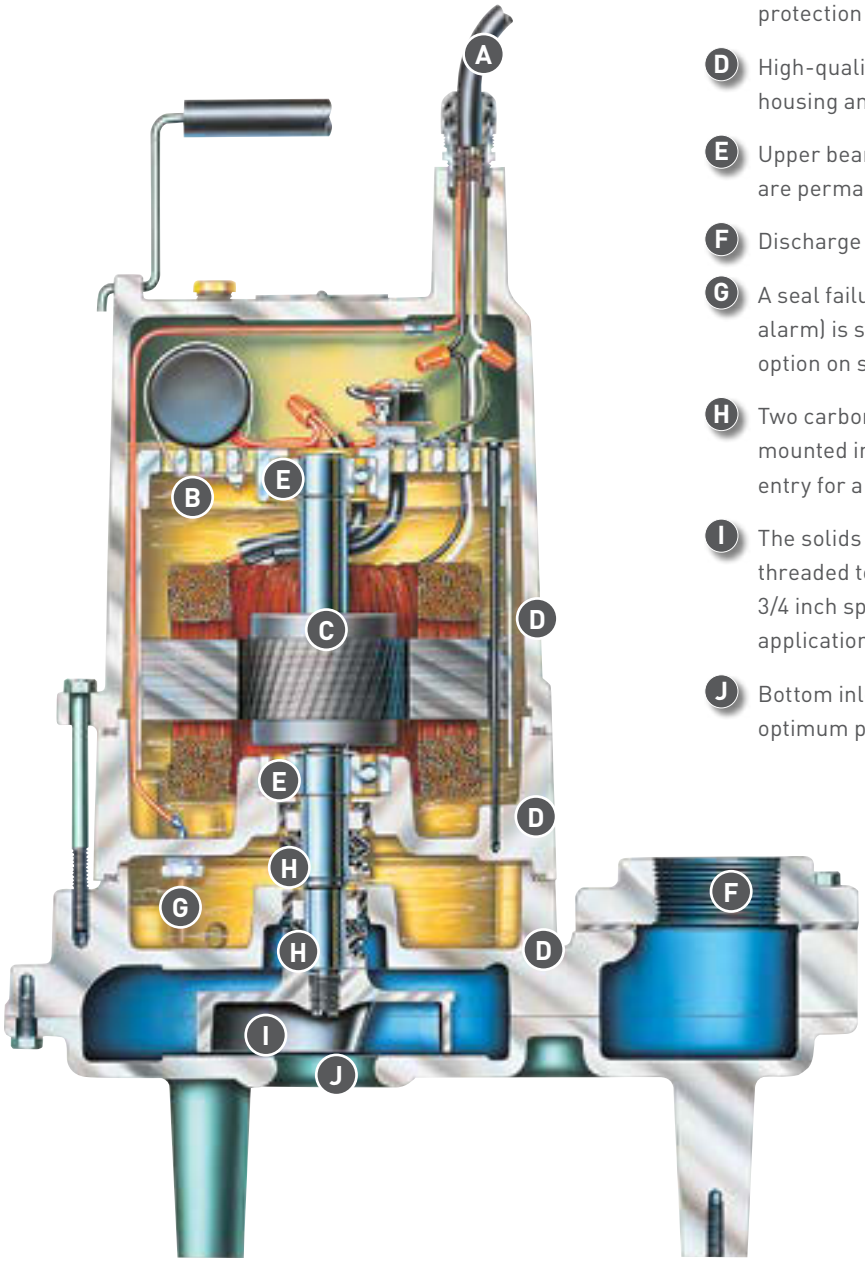
The MESPD50/100H's oil-filled motor provides superior cooling characteristics, allowing the motor to run cool and quiet for years. This oil-filled design also provides permanent lubrication of the shaft bearings, minimizing maintenance and extending the service life of the pump. In addition, to protect against overheating, the motor windings contain an automatic reset thermal overload protection (1ø).

Automatic models (1/2 HP) feature the exclusive Myers diaphragm pressure switch, which provides proven reliability in installations where a float might hang up. It also incorporates a unique piggyback plug arrangement, which allows for simple conversion to manual operation by simply removing the switch plug and inserting the motor plug directly into the electrical outlet.

MESPD50

The MESPD50/100H are completely submersible, "high-head", dual-seal pumps for use in septic tank effluent applications.

MESPD50/100



- **A** Water-resistant power cord has a compression-fit connection and an epoxy potting for double protection against water entry. Lengths of 10 and 20 feet are available with molded plugs, depending on model variations.
- **B** Oil-filled motor provides superior cooling and permanent lubrication of bearings, minimizing maintenance and extending service life.
- **C** 1/2 or 1 HP capacitor-start motors provide maximum starting torque. Motor windings contain automatic thermal overload protection (1ø).
- **D** High-quality cast iron construction of pump volute, motor housing and seal housing provides long life.
- **E** Upper bearings are heavy-duty, single-row ball bearings that are permanently lubricated for service-free life.
- **F** Discharge is standard 2 inch NPT (3 inch is optional).
- **G** A seal failure sensor probe (for connection to a seal failure alarm) is standard on three-phase units and available as an option on single-phase models.
- **H** Two carbon- and ceramic-faced mechanical shaft seals are mounted in tandem to provide double protection against water entry for a long, leakproof life.
- **I** The solids handling, two-vane, cast iron impeller, which is threaded to a stainless steel shaft, efficiently handles up to 3/4 inch spherical solids – providing long life in demanding applications.
- **J** Bottom inlet has no screen to become clogged, providing optimum pump performance and minimal maintenance.

MESPD50/100

PUMP CHARACTERISTICS

Pump/Motor Unit	Submersible					
Manual Models (50)	**MH1**	**MH2**	**MH6**	**MH3**	**MH4**	**MH5**
Automatic Models	**AH1**	**AH2**	**-**		**-**	**-**
Horsepower	1/2					
Voltage	115	230	200	230	460	575
Full Load Amps	14.0	7.0	4.0		1.8	1.5
Motor Type	Capacitor Start		Three-Phase			
R.P.M.	3450					
Phase Ø	1		3			

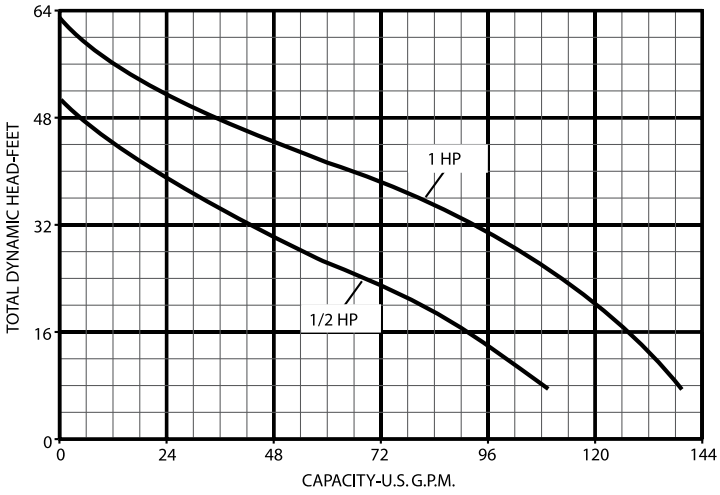
Manual Models (100)	**MH2**	**MH6**	**MH3**	**MH4**	**M5**
Automatic Models	**AH2**	**-**	**-**	**-**	**-**
Horsepower	1				
Voltage	230	200	230	460	575
Full Load Amps	9.9	5.5	5.2	2.5	1.5
Motor Type	Cap.	Three-Phase			
R.P.M.	3450				
Phase Ø	1	3			
Hertz	60				
Operation	Intermittent				
Temperature	140°F Max Fluid Temp.				
NEMA Design	B				
Insulation	Class B				
Discharge Size	2" NPT (3" opt.)				
Solids Handling	3/4"				
Unit Weight	73 lbs.				

Power Cord: MESPD50 14/3, SJTW-A, 1ø, 115V=10' std. (20' opt.)-14/4, STW-A, 1ø, 115V=10' (20' opt.)-16/3, STW-A, 1ø, 230V=20' std.-16/4, STW-A, 1ø, 230V=20' std. MESPD100 16/3, STW-A, 1ø, 230V=20' std.-16/4, STW-A, 1ø, 230V=20' std.-18/5, STW-A, 3ø, 200V, 230V, 460V or 575V=20' std.

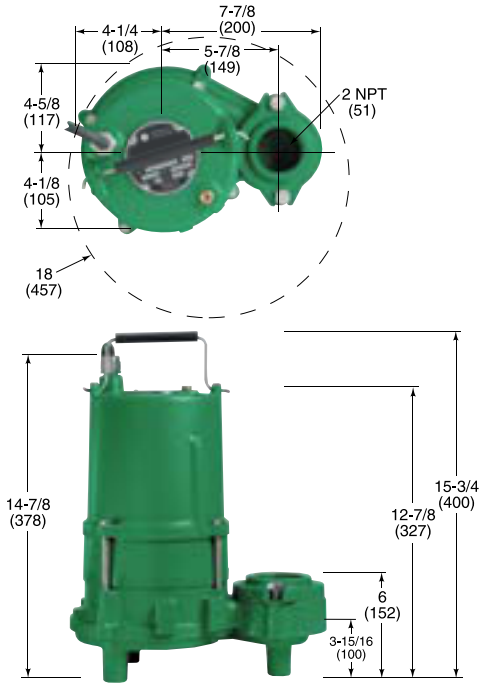
MATERIALS OF CONSTRUCTION

Handle	Steel
Lubricating Oil	Dielectric Oil
Motor Housing	Cast Iron
Seal Housing	Cast Iron
Pump Casing	Cast Iron
Shaft	Stainless Steel
Mechanical Shaft Seal	Seal Faces: Carbon/Ceramic Spring: Stainless Steel Bellows: Buna-N
Impeller	Ductile Iron
Upper Bearing	Single Row Ball Bearing
Lower Bearing	Single Row Ball Bearing
Base	Cast Iron
Fastener	Stainless Steel

PERFORMANCE DATA



DIMENSIONAL DATA



All dimensions in inches. Metric for international use. Component dimensions may vary ± 1/8 inch. Dimensional data not for construction purpose unless certified. Dimensions and weights are approximate. On/Off level adjustable.

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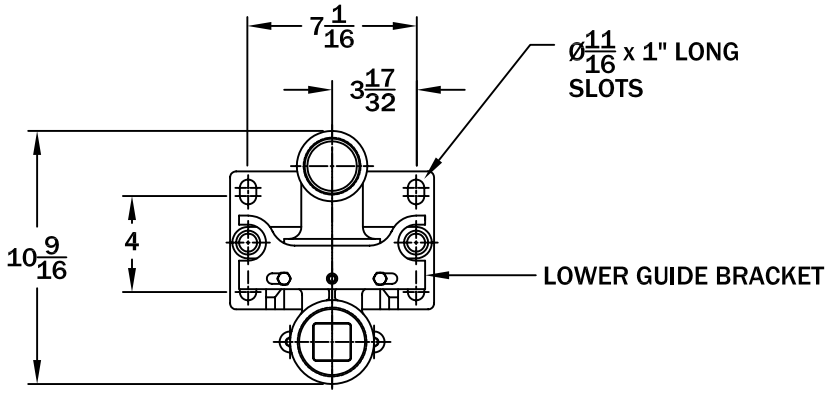
PH: 519-896-2163 ORDERS FAX: 519-896-6337

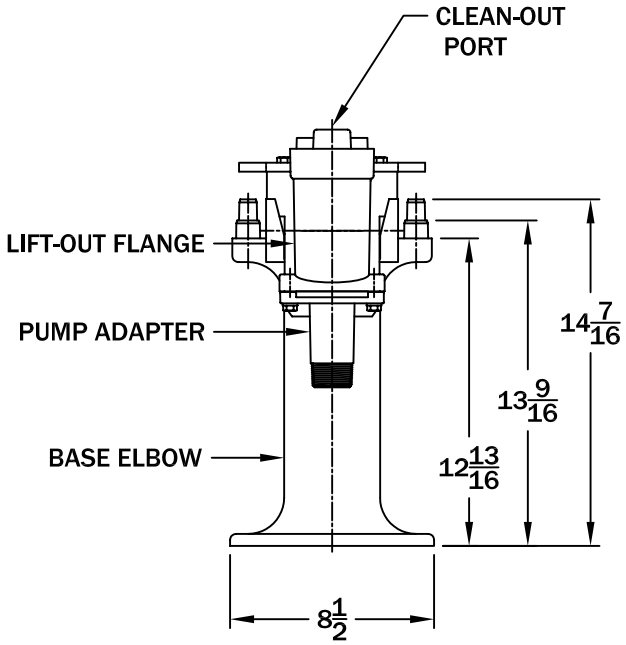
Because we are continuously improving our products and services, Pentair reserves the right to change specifications without prior notice.

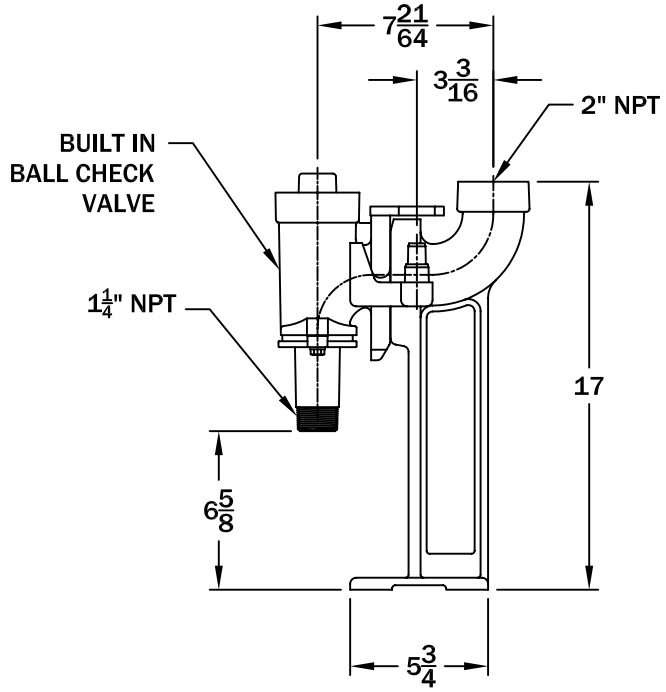
M11944 (12/01/16)

NOTE: ALL DIMENSIONS ARE IN INCHES.
MATERIALS OF CONSTRUCTION:
PUMP ADAPTER: 304 SST
BASE ELBOW: CAST DUCTILE IRON
LIFT-OUT FLANGE: CAST DUCTILE IRON
LOWER GUIDE BRACKET: 304 SST
ALL FASTENERS ARE 304 SERIES SST
USABLE RAIL SIZES: $\frac{3}{4}$" & 1"
MAXIMUM WEIGHT ALLOWANCE: 200 lbs

BERS 125–CV







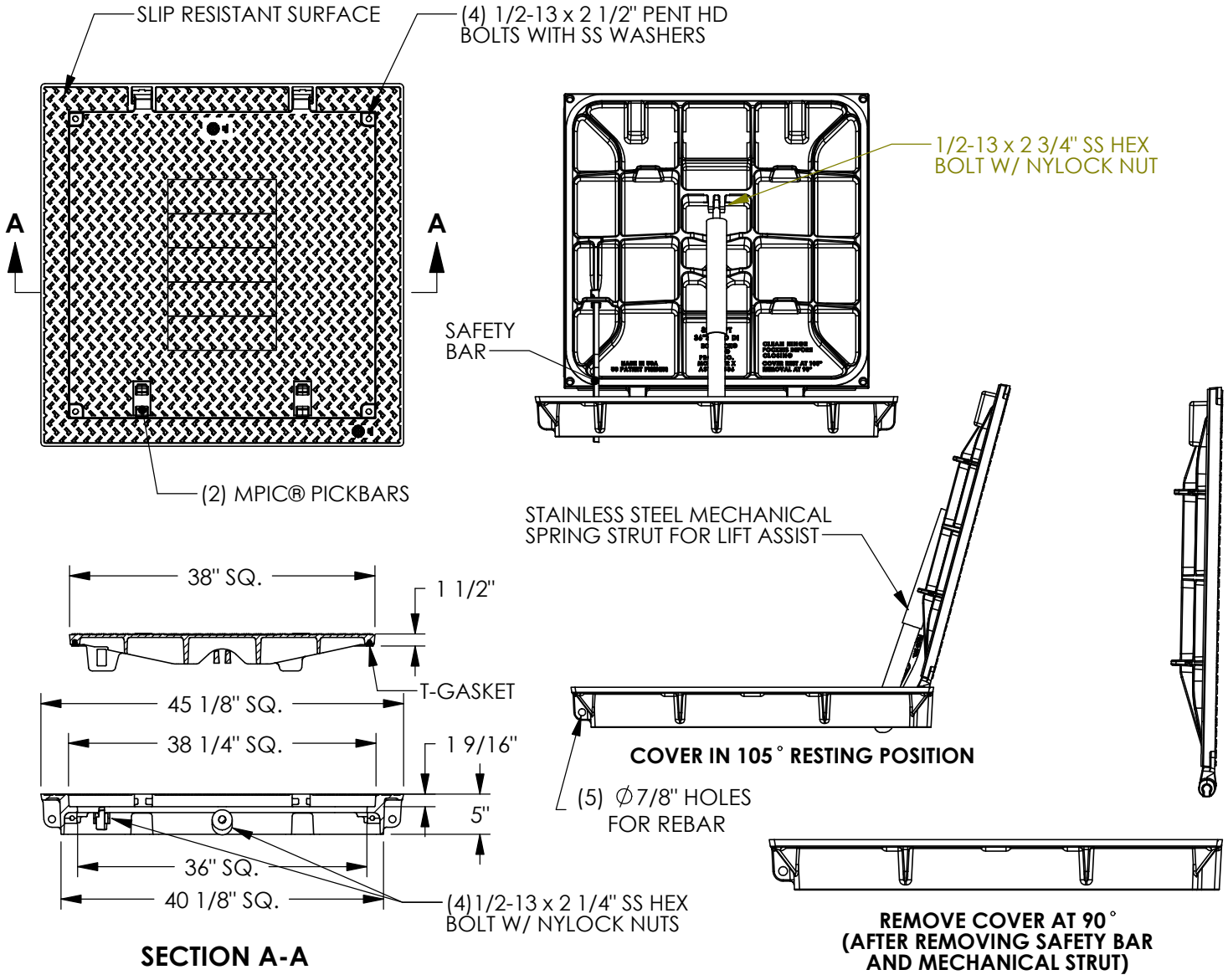
CONERY MFG INC

CHANGES	TOLERANCES	DRAWN BY	DATE
F	DECIMALS .XXX = ±.005 .XX = ±.010 FRACTIONAL X/X = ±.1/64 ANGLES X° = ±1/2°	D. MIDDLETON	03/05/04
E		MATERIAL SPECIFICATION: AS NOTED	
D			
C			
B			
A			

SPECIFICATION SHEET
DIMENSIONAL DATA

SCALE:	PART NO.
1/8	1-1/4" LIFT OUT DIM

8197 8217 Assembly



Product Number

00821721B04

Design Features

-Materials
  Hatch Frame
    Ductile Iron (70-50-05)
  Hatch Cover
    Ductile Iron (80-55-06)

-Design Load
  Heavy Duty
-Open Area
  n/a
-Coating
  Undipped
-√ Designates Machined Surface
-Slip Resistant Surface
  with the LLLL® registered trademark

Certification

-ASTM A536
-
-
-Country of Origin: USA

Major Components

00819711
00821721

Drawing Revision

4/18/2011 Designer: DEW
2/8/2012 Revised By: SDC

Disclaimer

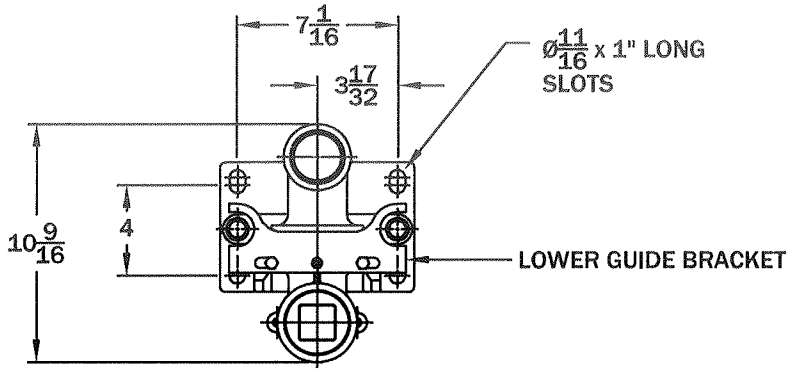
Weights (lbs/kg), dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.

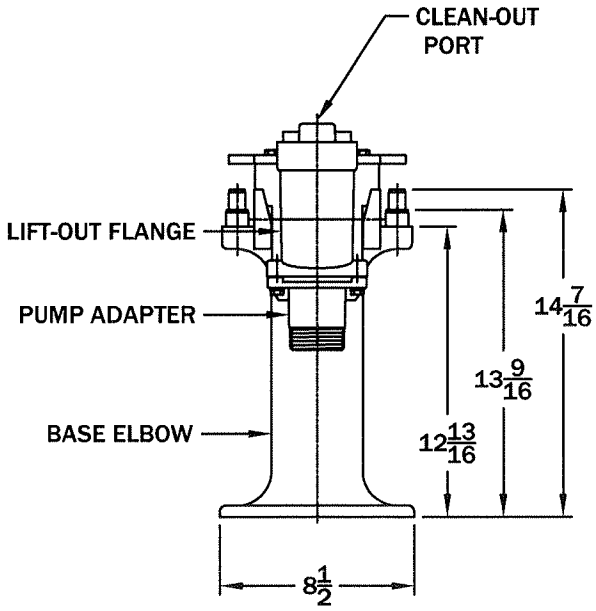
Contact

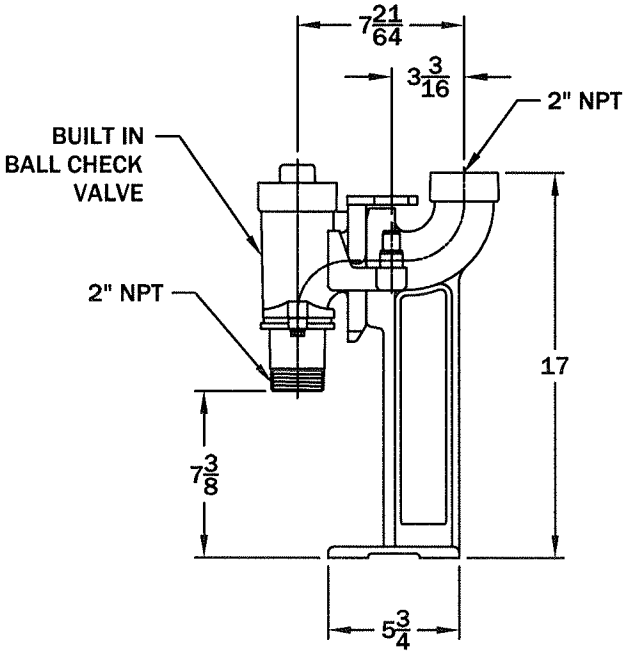
800.626.4653
ejco.com

NOTE: ALL DIMENSIONS ARE IN INCHES.
MATERIALS OF CONSTRUCTION:
PUMP ADAPTER: 304 SST
BASE ELBOW: CAST DUCTILE IRON
LIFT-OUT FLANGE: CAST DUCTILE IRON
LOWER GUIDE BRACKET: 304 SST
ALL FASTENERS ARE 304 SERIES SST
USABLE RAIL SIZES: $\frac{3}{4}$" & 1"
MAXIMUM WEIGHT ALLOWANCE: 200 lbs

BERS 200–CV







CONERY MFG INC

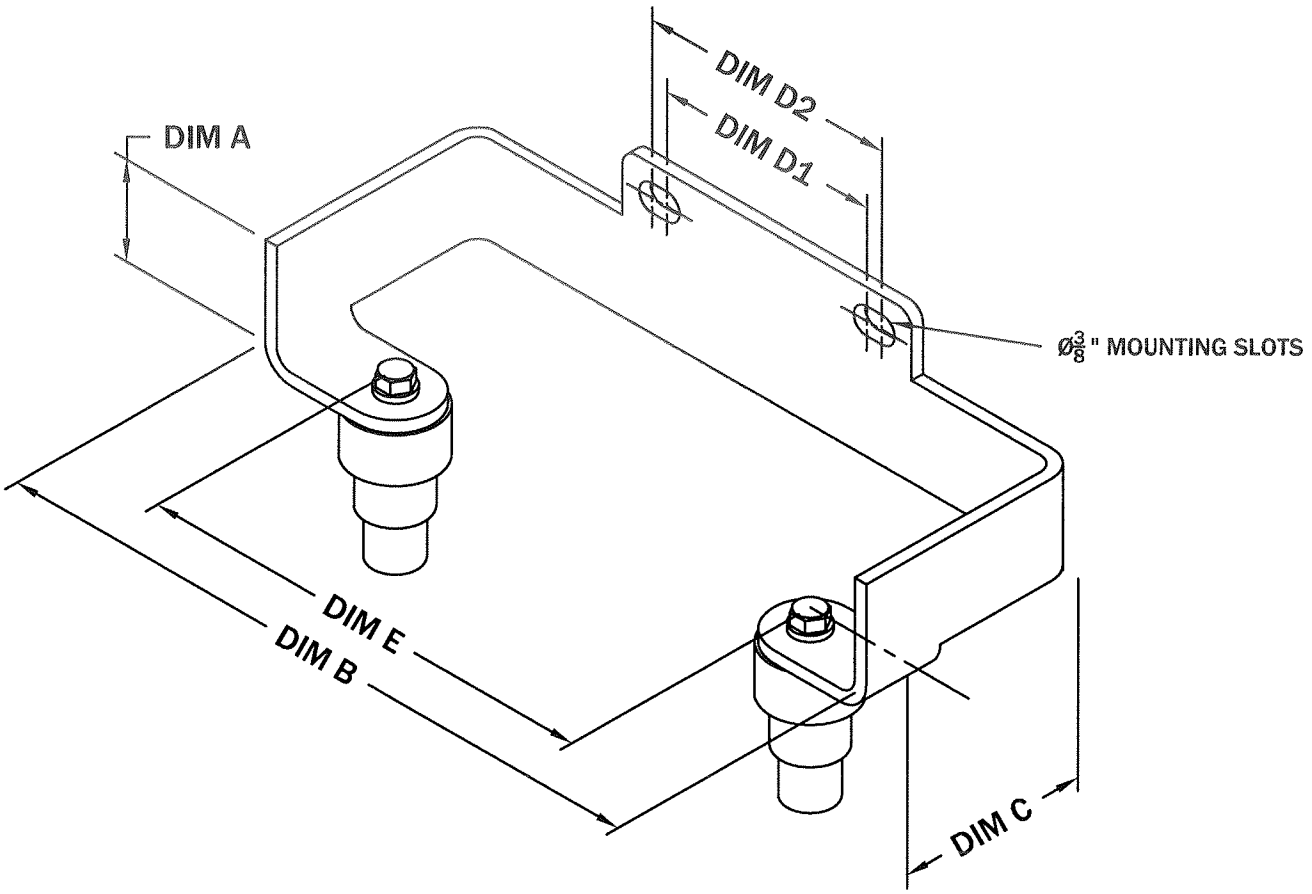
CHANGES		TOLERANCES	DRAWN BY	DATE
F		DECIMALS .XXX = ±.005 .XX = ±.010 FRACTIONAL X/X = ±.1/64 ANGLES X° = ±1/2°	D. MIDDLETON	03/05/04
E			MATERIAL SPECIFICATION: AS NOTED	
D				
C				
B				
A				

SPECIFICATION SHEET
DIMENSIONAL DATA

SCALE:	PART NO.
1/8	2" LIFT OUT DIM

NOTE: BRACKET CAN BE USED FOR $\frac{3}{4}$ " OR 1" GUIDE RAILS.

GUIDE BRACKET



MODEL NO.	DIA. "A"	DIM "B"	DIM "C"	DIM "D1 + D2"	DIM "E"
UGB–PC	3 3/4"	10 1/8"	2 11/16"	3 3/8"–3 7/8"	7"

CONERY MFG INC

CHANGES	TOLERANCES	DRAWN BY	DATE
F	DECIMALS	D. MIDDLETON	03/22/04
E	.XXX = ±.005		
D	.XX = ±.010	MATERIAL SPECIFICATION:	
C	FRACTIONAL	POWDER COATED STEEL	
B	X/X = ±.1/64		
A	ANGLES X° = ±1/2°		

SPECIFICATION SHEET
DIMENSIONAL DATA

SCALE:	PART NO.
NONE	GUIDE BRACKET

SJE PUMPMASTER® WPS Float Switch

Mechanically-activated, wide-angle switch designed for direct control of pumps up to 1/2 HP at 120 VAC and 1 HP at 230 VAC or control applications as low as 120 VAC, 100 mA.

This mechanically-activated, wide-angle float switch provides automatic control in:

- potable water applications
- water applications

It can be wired to work in either pump down (normally open) or pump up (normally closed) applications.

The SJE PumpMaster® WPS float switch is not sensitive to rotation or turbulence allowing it to be used in both calm and turbulent applications.

FEATURES

- Can be wired to work in either pump down (normally open) or pump up (normally closed) applications (Single Pole, Double Throw).
- Heavy-duty contacts.
- Controls pumps up to 1/2 HP at 120 VAC and 1 HP at 230 VAC or control applications as low as 120 VAC, 100 mA
- For direct wiring applications.
- Adjustable pumping range of 7 to 36 inches (18 to 91 cm).
- Includes external cable weight and boxed packaging.
- CSA Certified to meet NSF/ANSI 61 standard for use in potable water. Approved for use in tanks of 250 US gallons (950L) in volume or greater per float.
- Five-year limited warranty.

C US Drinking Water NSF/ANSI 61 LR54245 SSPMA MEMBER Member of Hydraulic Institute

SPECIFICATIONS

CABLE: flexible 16 gauge, 3 conductor (UL, CSA) SJOW, water-resistant (CPE)

FLOAT: 3.05 inch diameter x 3.56 inch long (7.75 x 9.04 cm) high impact, corrosion resistant, PVC housing for use in potable water and water up to 140°F (60°C)

ELECTRICAL:
120/230 VAC 50/60 Hz
13 FLA, 85 LRA

NOTE: This switch must be used with pumps that provide integral thermal overload protection.

Minimum Electrical Load:
120 VAC, 100 mA

NOTE: This switch is not intended to control non-arcing loads.

SJE RHOMBUS

PO Box 1708, Detroit Lakes, MN 56502
1-888-DIAL-SJE • 1-218-847-1317
1-218-847-4617 Fax
email: customer.service@sjeinc.com
www.sjerhombus.com

SEE REVERSE SIDE FOR ORDERING INFORMATION.
SEE PRICE BOOK FOR LIST PRICE.

SJE PUMPMASTER® WPS Float Switch

Mechanically-activated, wide-angle switch designed for direct control of pumps up to 1/2 HP at 120 VAC and 1 HP at 230 VAC or control applications as low as 120 VAC, 100 mA.

ORDERING INFORMATION

PUMP DOWN OR PUMP UP		Shipping Weight
Part Number	Description	
1047427	15PMWPSWE	3.3 lbs.
1053697	30PMWPSWE	5.1 lbs.

WE = **W**eighted **E**xternally
Can be wired to work in either pump down (normally open) or pump up (normally closed) applications (**S**ingle **P**ole, **D**ouble **T**hrow).

OPTIONS

EXTERNAL WEIGHT is standard

PACKAGING
Boxed - standard

Drinking Water NSF/ANSI 61 **LR54245**

SSPMA MEMBER

SPECIFICATIONS

CABLE: flexible 16 gauge, 3 conductor (UL, CSA) SJOW, water-resistant (CPE)

FLOAT: 3.05 inch diameter x 3.56 inch long (7.75 x 9.04 cm) high impact, corrosion resistant, PVC housing for use in potable water and water up to 140°F (60°C)

ELECTRICAL:
120/230 VAC 50/60 Hz
13 FLA, 85 LRA

NOTE: This switch must be used with pumps that provide integral thermal overload protection.

Minimum Electrical Load:
120 VAC, 100 mA

NOTE: This switch is not intended to control non-arcing loads.

OTHER INFORMATION

PUMP DOWN is normally open contacts for emptying applications.

PUMP UP is normally closed contacts for filling applications.

Call or fax your order!
1-888-DIAL-SJE (1-888-342-5753) • Fax 218-847-4617

SJE RHOMBUS
www.sjerhombus.com
customer.service@sjeinc.com

Product offering and pricing are subject to change without notice.
*Please visit **www.sjerhombus.com** for the most current information.*

APPENDIX C

DRAWINGS

GRAPHIC SCALE

(IN FEET)
1 inch = 200 ft.

KEY MAP
SCALE: 1" = 1,500'

LEGEND

	EXISTING PROPERTY LINE
	EXISTING LOT LINE
	ADJACENT PROPERTY LINE
	EXISTING WETLAND LINE AND DELINEATION
	EXISTING EASEMENT
	EXISTING NYSDEC WETLAND BUFFER
	EXISTING TOWN WETLAND BUFFER
	EXISTING NYCDEP LIMITING DISTANCE
	SOIL BOUNDARY LINE
WdB (C/D)	SOIL DESIGNATION AND HYDROLOGIC SOIL GROUP
	EXISTING BUILDING LINE
	EXISTING PAVEMENT EDGE
	EXISTING CURB LINE
172	EXISTING CONTOUR
170	EXISTING INDEX CONTOUR
	EXISTING STONE WALL
	EXISTING GUIDE RAIL
	EXISTING FENCE
T10 M	EXISTING TREE AND DESIGNATION
	APPROXIMATE EXISTING TREE LINE
	EXISTING PAINT
36" RCP	EXISTING STORM DRAIN LINE AND SIZE
OHW	EXISTING OVERHEAD WIRES
	EXISTING UTILITY POLE

NOTES:

1. EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEYS PREPARED BY BADEY & WATSON, SURVEYING AND ENGINEERING, P.C.
2. GEOTECHNICAL BORING/TEST PIT LOCATIONS DEPICTED ON THIS PLAN WERE TAKEN FROM THE GEOTECHNICAL REPORT ENTITLED, "PRELIMINARY SUBSURFACE INVESTIGATION", DATED 10/07/1987, PREPARED BY SESI CONSULTING ENGINEERS.

No.	Revision	Date	By
1.	DEIS COMPLETENESS SUBMISSION	05/11/2018	KRM
2.	FEIS COMPLETENESS SUBMISSION	03/18/2019	KRM
3.	REVISED PER TOWN COMMENTS	05/07/2019	KRM
4.	REVISED PER FEIS COMMENTS	11/18/2019	KRM
5.	REVISED PER NYCDEP COMMENTS	06/17/2020	KRM
6.	ARCHITECTURAL REVIEW BOARD SUBMISSION	11/04/2020	KRM
7.	PLANNING BOARD SUBMISSION	01/04/2021	KRM

Previous Editions Obsolete

APPLICANT/OWNER:

PUTNAM SEABURY PARTNERS, L.P.
287 KING STREET
CHAPPAQUA, NY 10514

JMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC
JMC Site Development Consultants, LLC
John Meyer Consulting, Inc.
120 BEDFORD ROAD • ARMONK, NY 10504
voice 914.273.5225 • fax 914.273.2102
www.jmcpllc.com

OVERALL EXISTING CONDITIONS MAP

COMMERCIAL CAMPUS AT FIELDS CORNER
NY 312 & PUGSLEY ROAD
TOWN OF SOUTHEAST, NEW YORK

ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 7209, SUBSECTION 2.

STATE OF NEW YORK · DAVID P. LOMBARDI · LICENSED PROFESSIONAL ENGINEER · 071001

Drawn:	KRM	Approved:	DL
Scale:	1" = 200'		
Date:	11/06/2017		
Project No:	14012		
14012-EXISTING	OVERALL EXIST	0_EXIST.scr	
Drawing No:	C-010		

NOT FOR CONSTRUCTION

GRAPHIC SCALE

200 0 100 200 400 800

(IN FEET)
1 inch = 200 ft.

PUTNAM COUNTY HEALTH DEPARTMENT NOTES:

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2. SSTS SYSTEM TO BE INSPECTED BY THE DESIGN PROFESSIONAL AND PUTNAM COUNTY HEALTH DEPARTMENT AFTER INSTALLATION AND PRIOR TO BACKFILL.
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4. UNAUTHORIZED MODIFICATIONS MADE TO THE DRAWINGS AFTER THE DATE OF THE PUTNAM COUNTY DEPARTMENT OF HEALTH APPROVAL VOIDS SAID APPROVAL.
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LEGEND

- EXISTING/PROPOSED PROPERTY LINE
- PROPOSED SUBDIVISION LINE
- ADJACENT PROPERTY LINE
- EXISTING WETLAND LINE
- EXISTING BUILDING LINE
- EXISTING PAVEMENT EDGE/CURB LINE
- EXISTING GUIDE RAIL
- EXISTING FENCE
- 36" RCP — EXISTING STORM DRAIN LINE AND SIZE
- OHW — EXISTING OVERHEAD WIRES
- PROPOSED BUILDING LINE
- PROPOSED EDGE OF PAVEMENT/CURB LINE
- PROPOSED CONCRETE SIDEWALK
- PROPOSED DROP CURB AND RAMP
- SMH — PROPOSED SANITARY SEWER MANHOLE
- DMH — PROPOSED STORM DRAIN MANHOLE
- PROPOSED SANITARY SEWER FORCEMAIN CLEANOUT IN MANHOLE
- CI — PROPOSED TYPE CI DRAIN INLET
- DI — PROPOSED TYPE DI DRAIN INLET
- PROPOSED STORM DRAIN LINE
- PROPOSED SANITARY SEWER LINE
- PROPOSED 100% EXPANSION SANITARY SEWER LINE
- PRIMARY ABSORPTION FIELD
- 100% EXPANSION ABSORPTION FIELD
- PROPOSED WATER LINE
- PROPOSED RETAINING WALL (DESIGN BY OTHERS)

NOTES:

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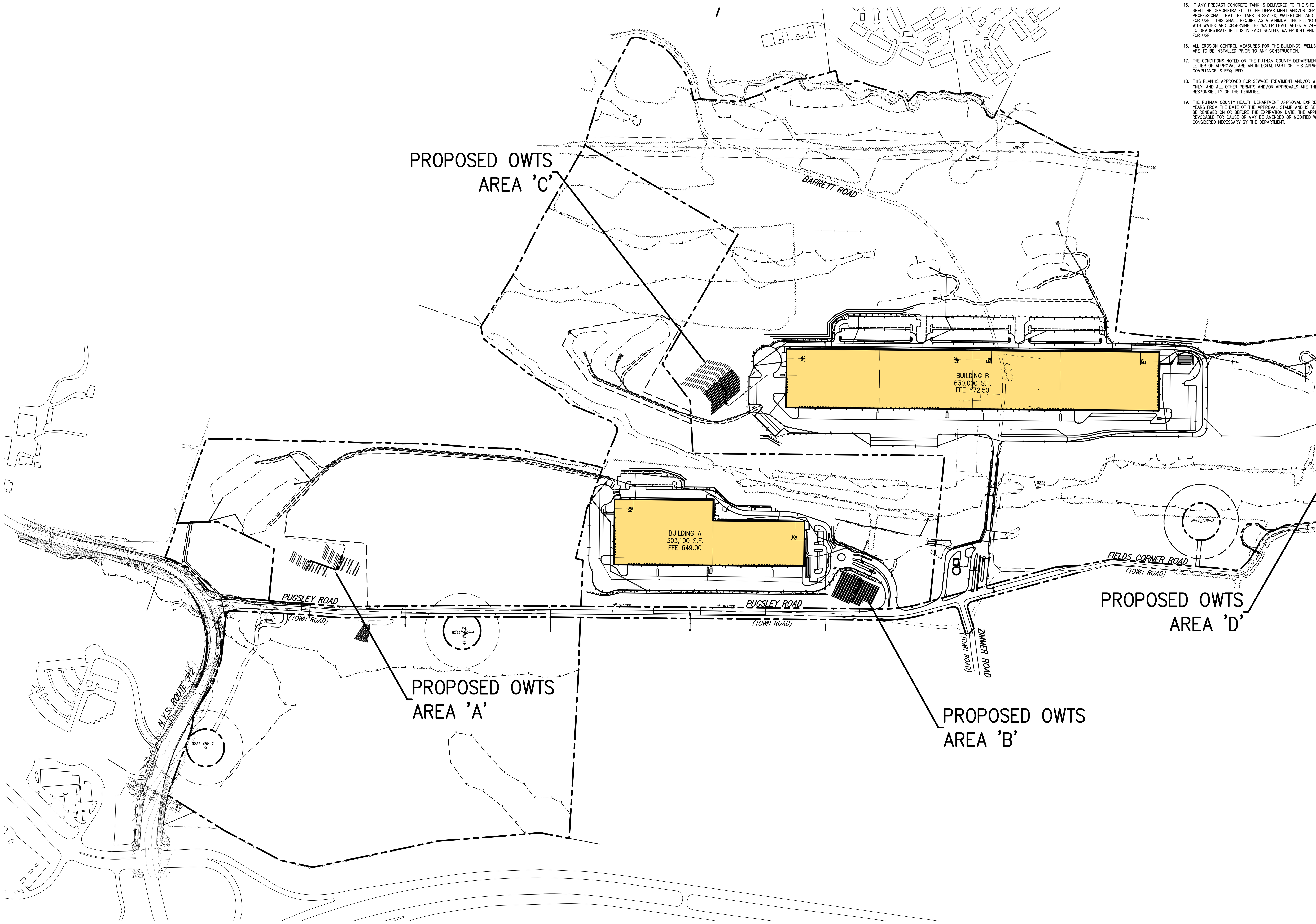

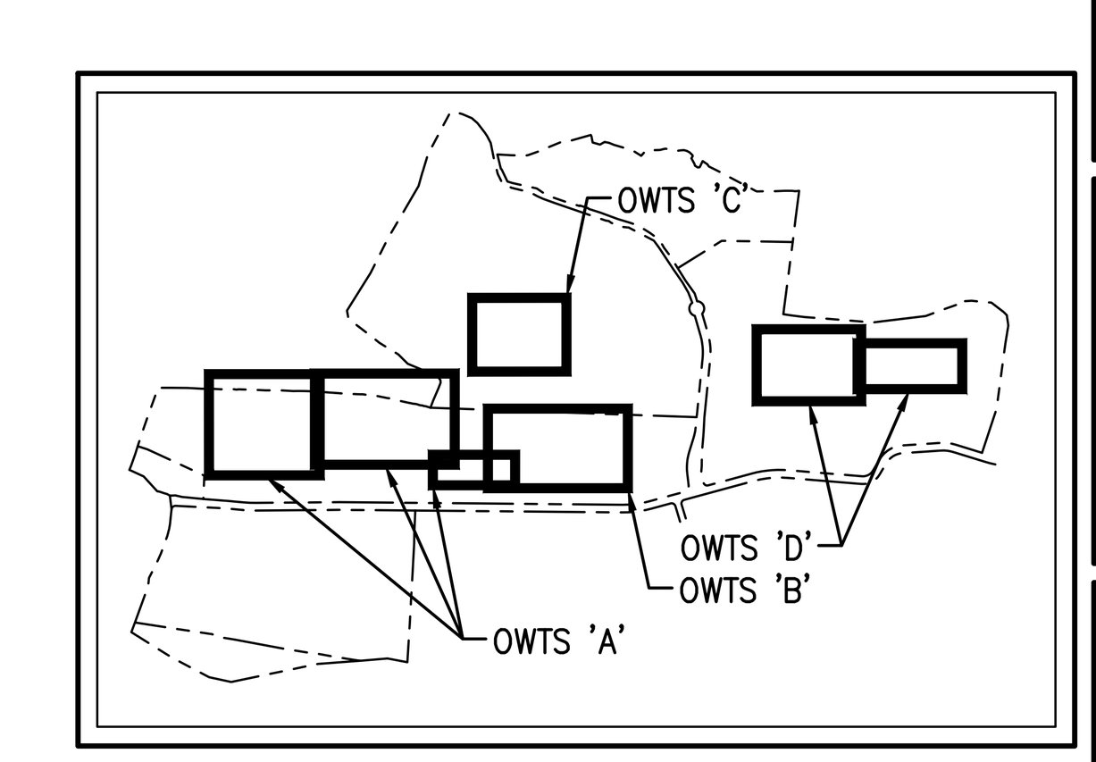

OWTS KEY MAP
SCALE: 1" = 1,500'

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Previous Editions Obsolete

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OVERALL OWTS MAP

COMMERCIAL CAMPUS AT FIELDS CORNER
NY 312 & PUGSLEY ROAD
TOWN OF SOUTHEAST, NEW YORK

ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 7209, SUBSECTION 2.

STATE OF NEW YORK • DAVID P. LOMBARDI • LICENSED PROFESSIONAL ENGINEER • 071001

Drawn:	KRM	Approved:	DL
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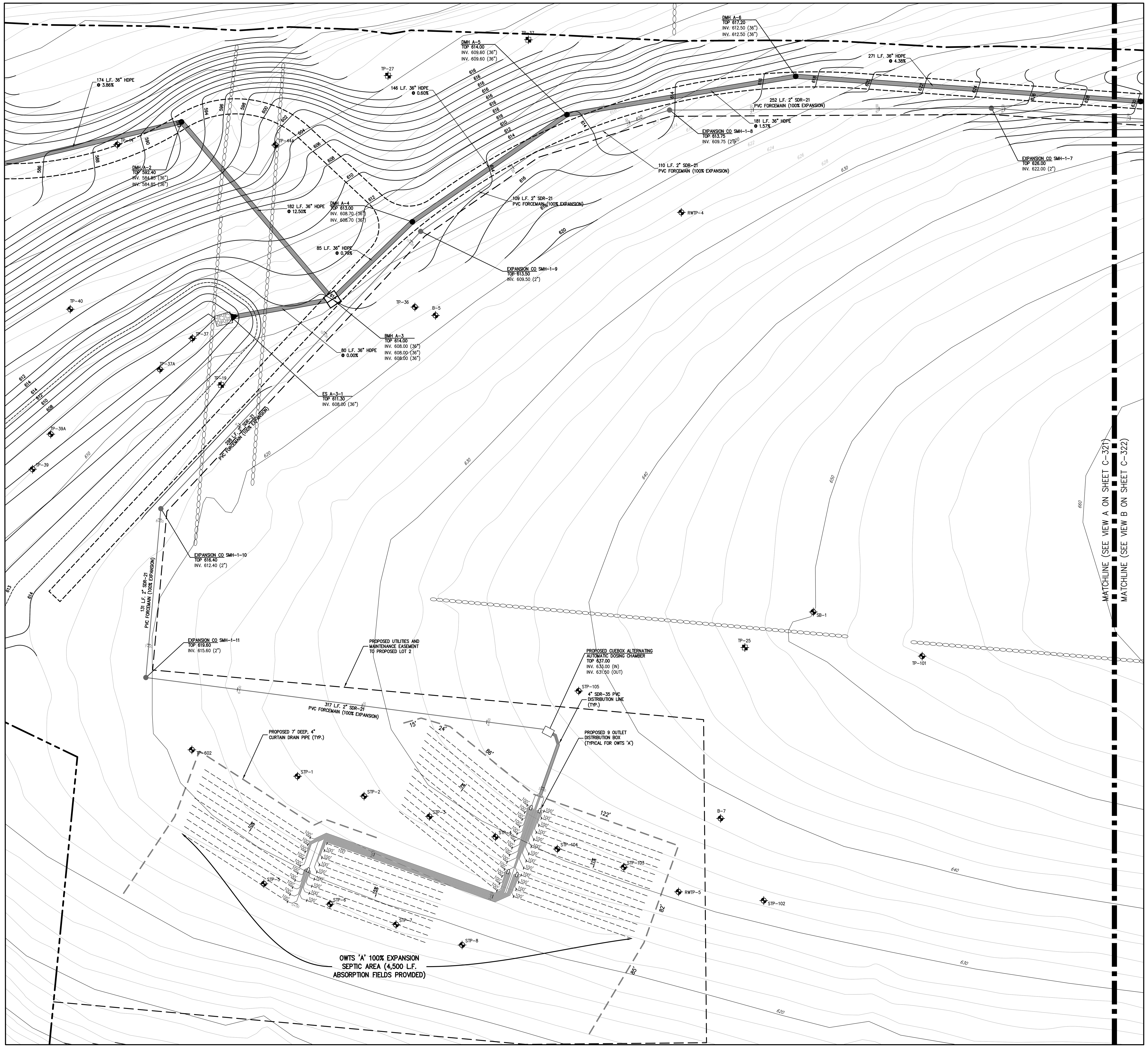
14012-OWTS	C-320	OWTS.scr	
Drawing No:	C–320		



VIEW A

LEGEND

- EXISTING/PROPOSED PROPERTY LINE
- PROPOSED SUBDIVISION LINE
- ADJACENT PROPERTY LINE
- EXISTING WETLAND LINE AND DELINEATION
- EXISTING NYSDEC WETLAND BUFFER
- EXISTING TOWN WETLAND BUFFER
- EXISTING NYCDEP LIMITING DISTANCE
- EXISTING STONE WALL
- PROPOSED BUILDING LINE
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- SMH — PROPOSED SANITARY SEWER MANHOLE
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- PROPOSED HEADWALL
- PROPOSED END SECTION
- PROPOSED HYDRANT
- 15" HDPE — PROPOSED STORM DRAIN LINE & SIZE
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- FUTURE 100% EXPANSION SANITARY SEWER LINE
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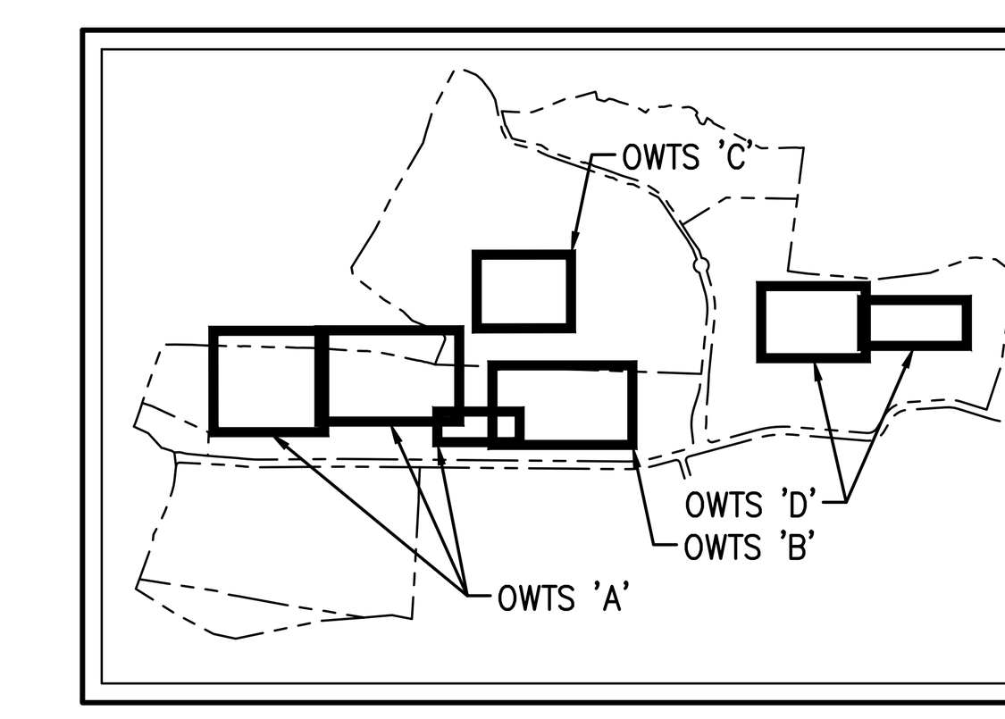

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JMC

OWTS PLAN 'A'

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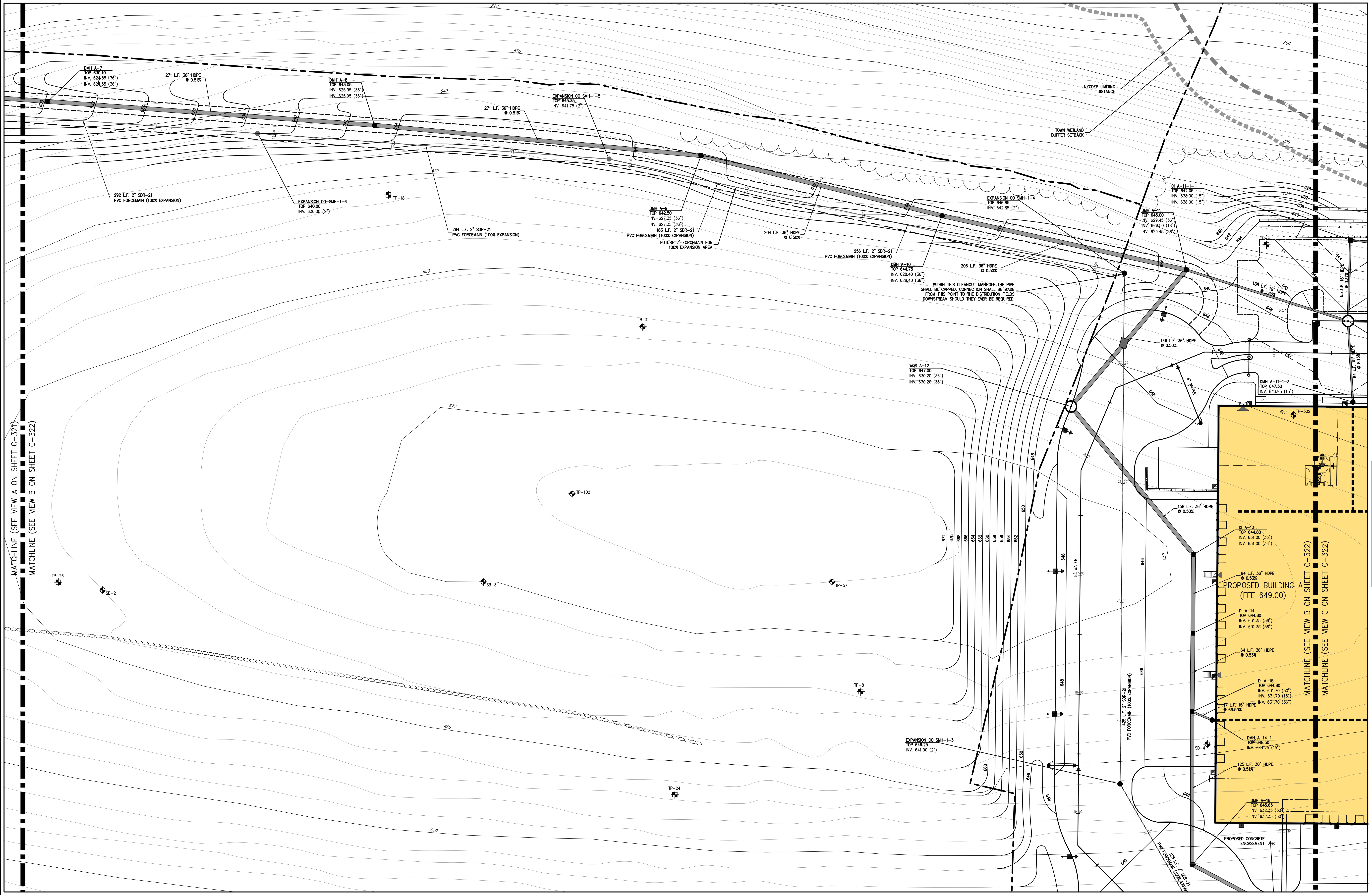
TOWN OF SOUTHEAST, NEW YORK

STATE OF NEW YORK · DAVID P. LOMBARDI · 071001 · LICENSED PROFESSIONAL ENGINEER

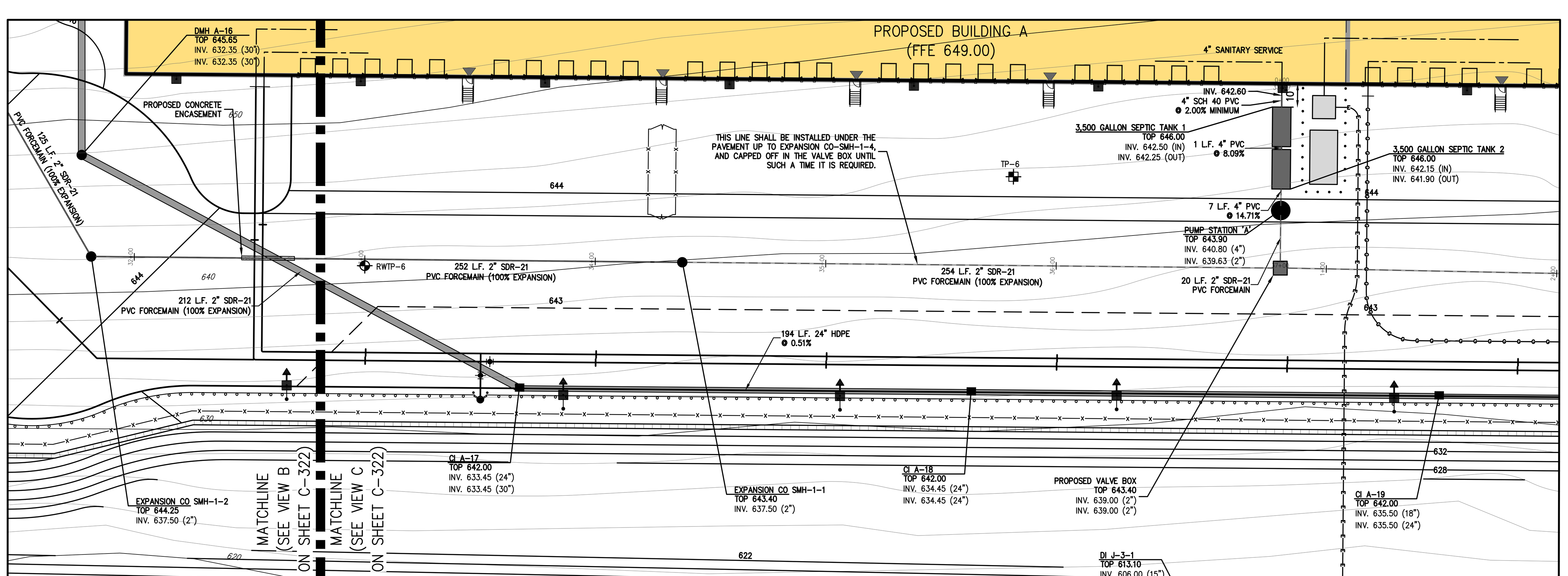
Drawn:	KRM	Approved:	DL
Scale:	1" = 30'		
Date:	01/06/2021		
Project No:	14012		
14012-OWTS	C-321	OWTS.scr	

Drawing No:
C-321

NOT FOR CONSTRUCTION



VIEW B



VIEW C

LEGEND

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- PROPOSED SUBDIVISION LINE
- ADJACENT PROPERTY LINE
- WLF-63 WLF-64 WLF-65 — EXISTING WETLAND LINE AND DELINEATION
- EXISTING NYSDEC WETLAND BUFFER
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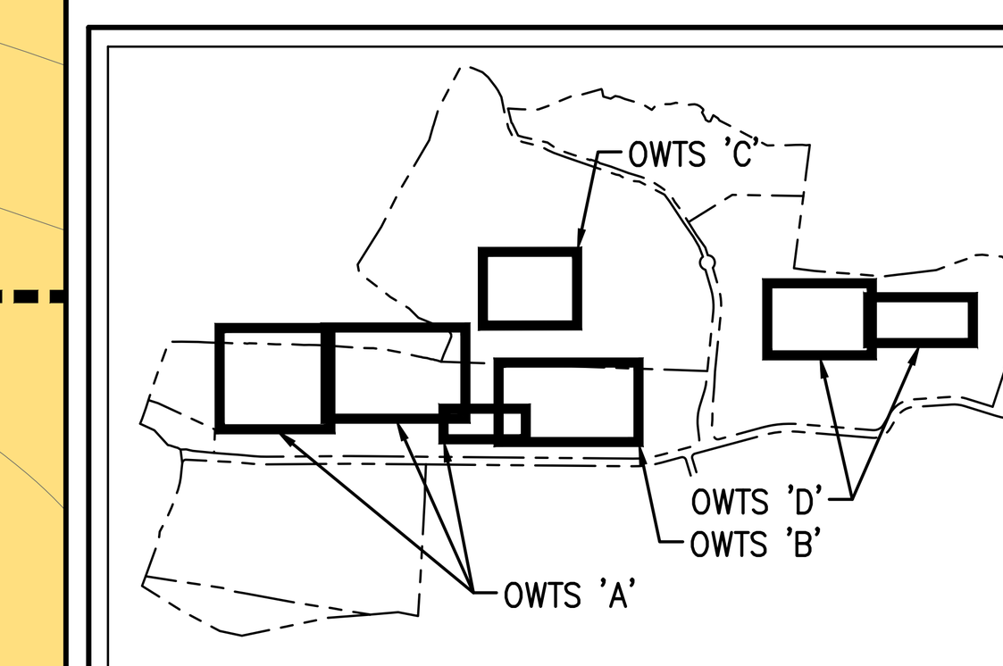

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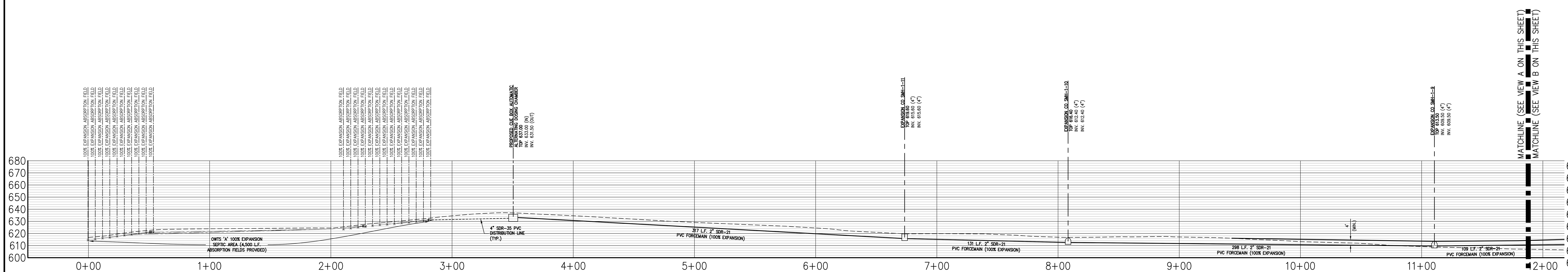
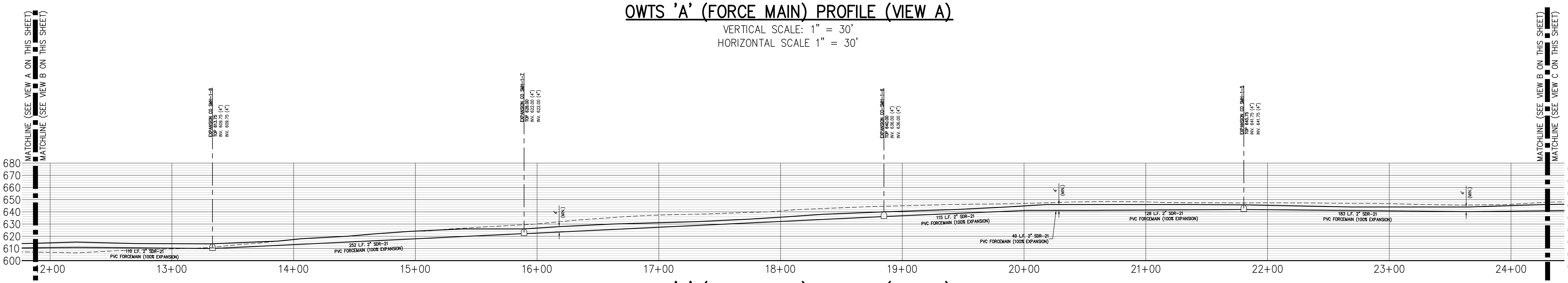


OWTS 'A' (FORCE MAIN) PROFILE (VIEW A)

VERTICAL SCALE: 1" = 30'
HORIZONTAL SCALE 1" = 30'



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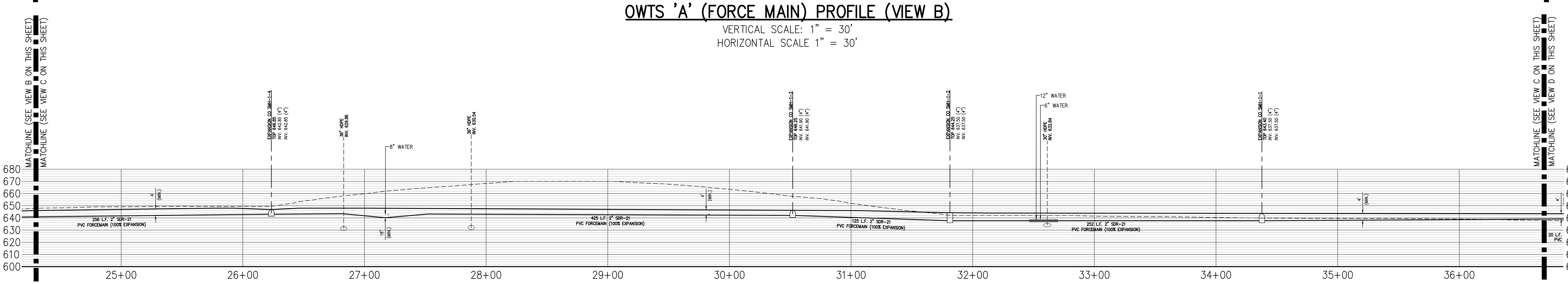

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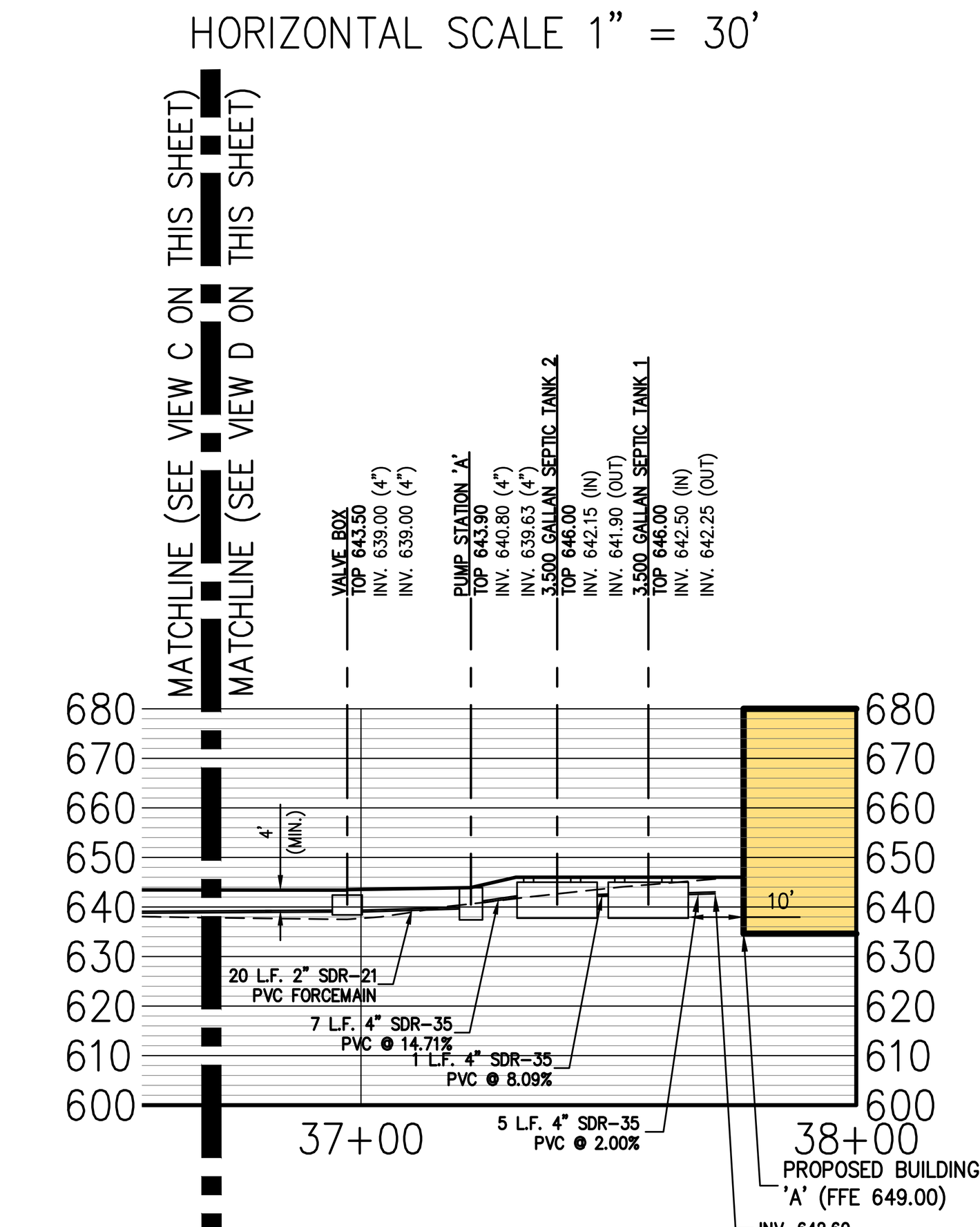
VERTICAL SCALE: 1" = 30'
HORIZONTAL SCALE 1" = 30'



OWTS 'A' (FORCE MAIN) PROFILE (VIEW D)

VERTICAL SCALE: 1" = 30'
HORIZONTAL SCALE 1" = 30'

No. | Revision | Date | By

Previous Editions Obsolete

APPLICANT/OWNER:

PUTNAM SEABURY PARTNERS, L.P.
287 KING STREET
CHAPPAQUA, NY 10514

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JMC Site Development Consultants, LLC
John Meyer Consulting, Inc.
120 BEDFORD ROAD • ARMONK, NY 10504
voice 914.273.5225 • fax 914.273.2102
www.jmcpllc.com

OWTS 'A' PROFILE

COMMERCIAL CAMPUS AT FIELDS CORNER
NY 312 & PUGSLEY ROAD
TOWN OF SOUTHEAST, NEW YORK

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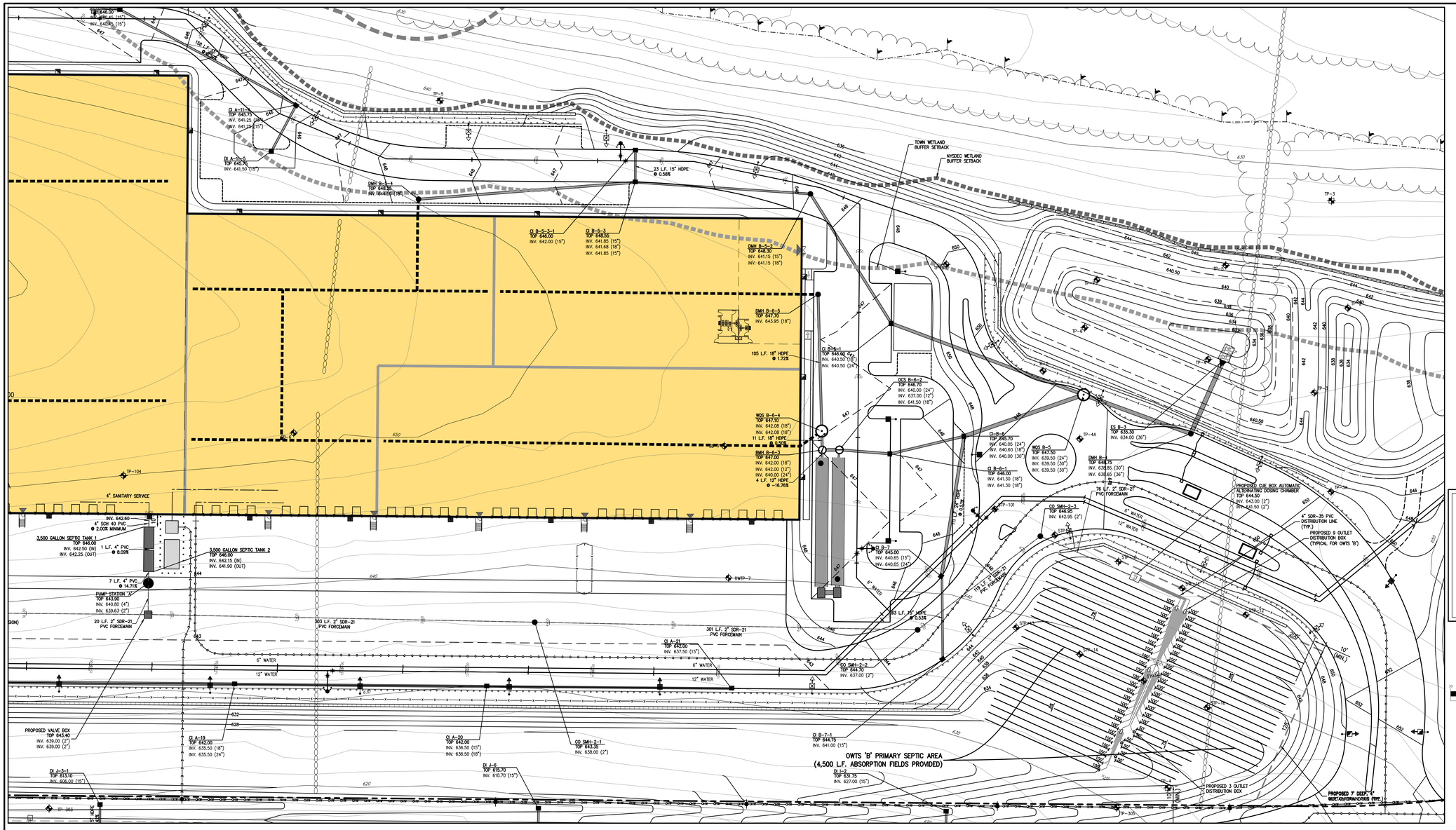
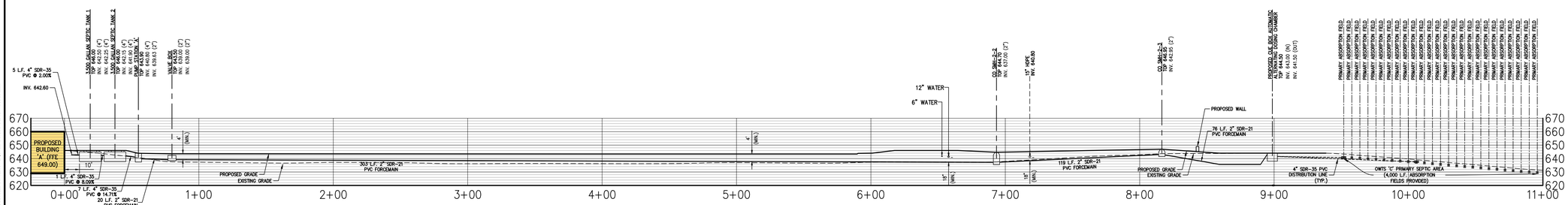
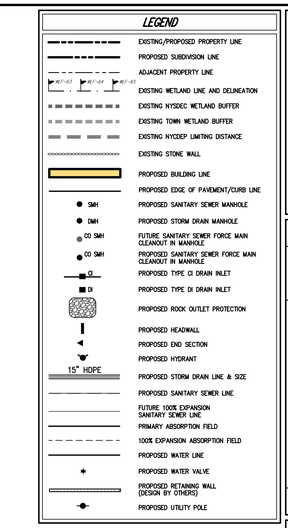
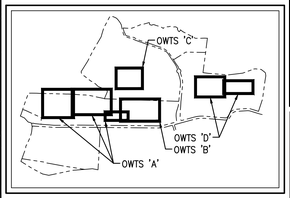
Drawn: KRM Approved: DL
Scale: 1" = 30'
Date: 01/06/2020
Project No: 14012
Drawing No:
C-323

NOT FOR CONSTRUCTION









OWTS 'B' (FORCE MAIN) PROFILE

VERTICAL SCALE: 1" = 30'
HORIZONTAL SCALE: 1" = 30'

LEGEND

	EXISTING/PROPOSED PROPERTY LINE
	PROPOSED SUBDIVISION LINE
	ADJACENT PROPERTY LINE
WLF-63 WLF-64 WLF-65	EXISTING WETLAND LINE AND DELINEATION
	EXISTING NYSDEC WETLAND BUFFER
	EXISTING TOWN WETLAND BUFFER
	EXISTING NYCDEP LIMITING DISTANCE
	EXISTING STONE WALL
🟨	PROPOSED BUILDING LINE
	PROPOSED EDGE OF PAVEMENT/CURB LINE
● SMH	PROPOSED SANITARY SEWER MANHOLE
● DMH	PROPOSED STORM DRAIN MANHOLE
● CO SMH	FUTURE SANITARY SEWER FORCE MAIN CLEANOUT IN MANHOLE
● CO SMH	PROPOSED SANITARY SEWER FORCE MAIN CLEANOUT IN MANHOLE
■ CI	PROPOSED TYPE CI DRAIN INLET
■ DI	PROPOSED TYPE DI DRAIN INLET
	PROPOSED ROCK OUTLET PROTECTION
	PROPOSED HEADWALL
◄	PROPOSED END SECTION
	PROPOSED HYDRANT
15" HDPE	PROPOSED STORM DRAIN LINE & SIZE
	PROPOSED SANITARY SEWER LINE
	FUTURE 100% EXPANSION SANITARY SEWER LINE
	PRIMARY ABSORPTION FIELD
	100% EXPANSION ABSORPTION FIELD
	PROPOSED WATER LINE
	PROPOSED WATER VALVE
	PROPOSED RETAINING WALL (DESIGN BY OTHERS)
	PROPOSED UTILITY POLE

NOTES:

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4. PIPE FOR SEWER PIPES HEREON SHALL BE HIGH DENSITY POLYETHYLENE PIPE (HDPE) WITH A SMOOTH INTERIOR AND ANNULAR EXTERIOR CORRUGATIONS IN ACCORDANCE WITH ASTM F-2648. JOINTS SHALL BE WATERTIGHT IN ACCORDANCE WITH ASTM D-3212.

OWTS KEY MAP
SCALE: 1" = 1,500'

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

PUTNAM COUNTY HEALTH DEPARTMENT NOTES:

1. SSTS AREA TO BE FIELD STAKED AND CORDONED OFF TO PREVENT THE OPERATIONS OF TRUCKS AND/OR MACHINERY OR STORAGE OF HEAVY EQUIPMENT, OR EXCAVATED EARTH IN THIS AREA.
2. SSTS SYSTEM TO BE INSPECTED BY THE DESIGN PROFESSIONAL AND PUTNAM COUNTY HEALTH DEPARTMENT AFTER INSTALLATION AND PRIOR TO BACKFILL.
3. PUTNAM COUNTY HEALTH DEPARTMENT APPROVAL IS BASED ON THE LOCATION OF THE SEWAGE SYSTEM WELL, BUILDINGS, SETBACKS, ROADS AND DRIVEWAYS, AS WELL AS, BUILDING SIZE AND USE AS SHOWN ON THE APPROVED DRAWINGS. ANY MODIFICATIONS OR REVISIONS ARE TO HAVE PRIOR PUTNAM COUNTY HEALTH DEPARTMENT APPROVAL.
4. UNAUTHORIZED MODIFICATIONS MADE TO THE DRAWINGS AFTER THE DATE OF THE PUTNAM COUNTY DEPARTMENT OF HEALTH APPROVAL VOIDS SAID APPROVAL.
5. PUTNAM COUNTY DEPARTMENT OF HEALTH APPROVAL IS BASED ON A MAXIMUM FLOW OF 4,500 GPD FOR BUILDING A AND 7,980 GPD FOR BUILDING B. AN INCREASE IN THE FLOW WILL REQUIRE PRIOR APPROVAL FROM THE DEPARTMENT.
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10. AFTER BACKFILLING THE SYSTEM, THE SSTS AREA SHALL BE COVERED WITH A MINIMUM OF 6 INCHES OF TOP SOIL SEEDED AND MULCHED.
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DAVID P. LOMBARDI 071001

Drawn:	KRM	Approved:	DL
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Project No:	14012		
14012-OWTS	C-324	OWTS.scr	
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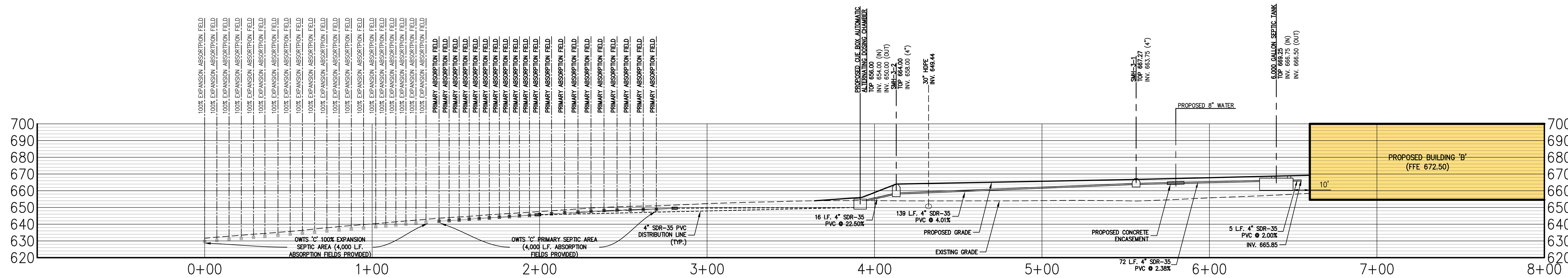
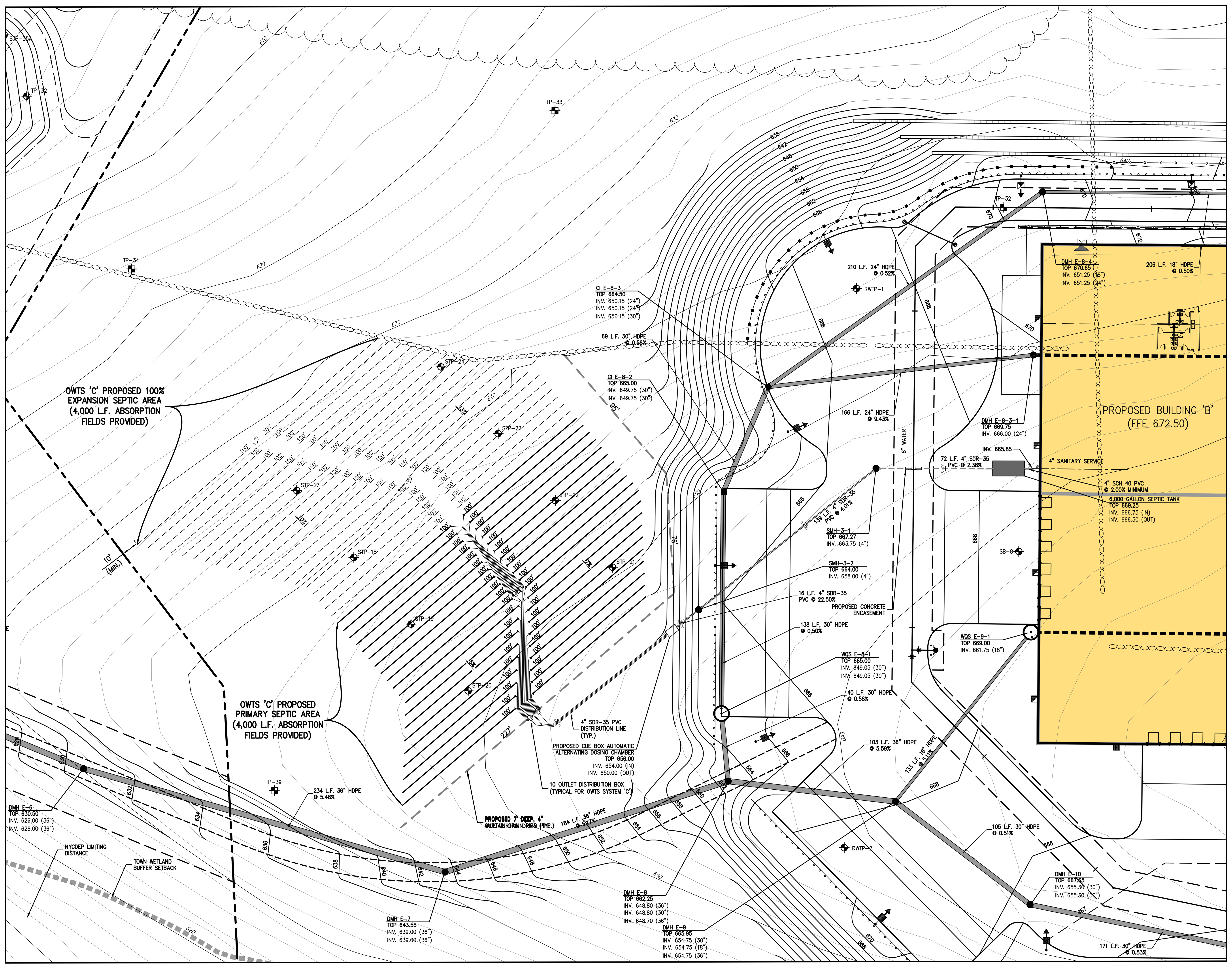
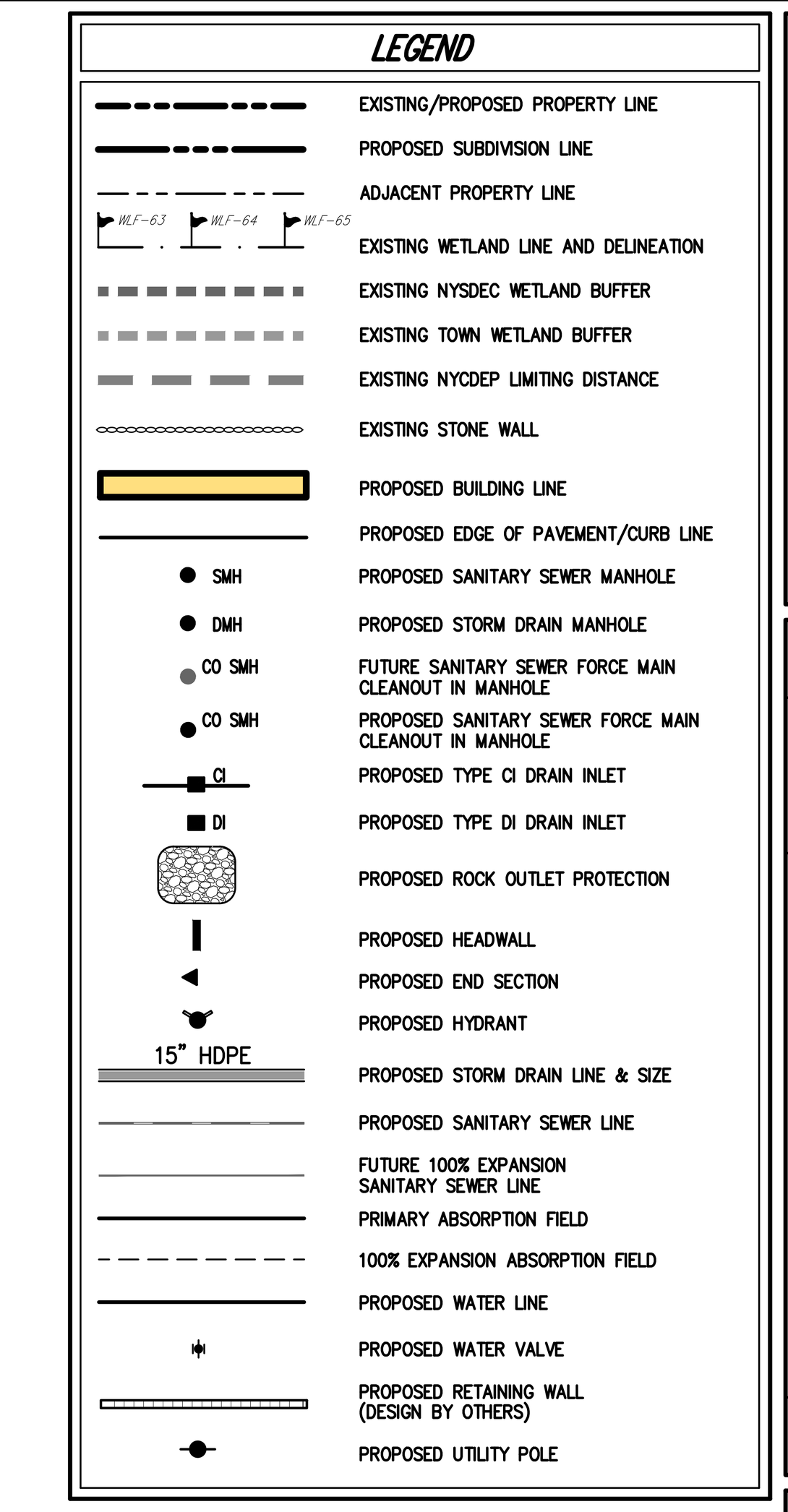


OWTS 'C' PROFILE

VERTICAL SCALE: 1" = 30'
HORIZONTAL SCALE: 1" = 30'





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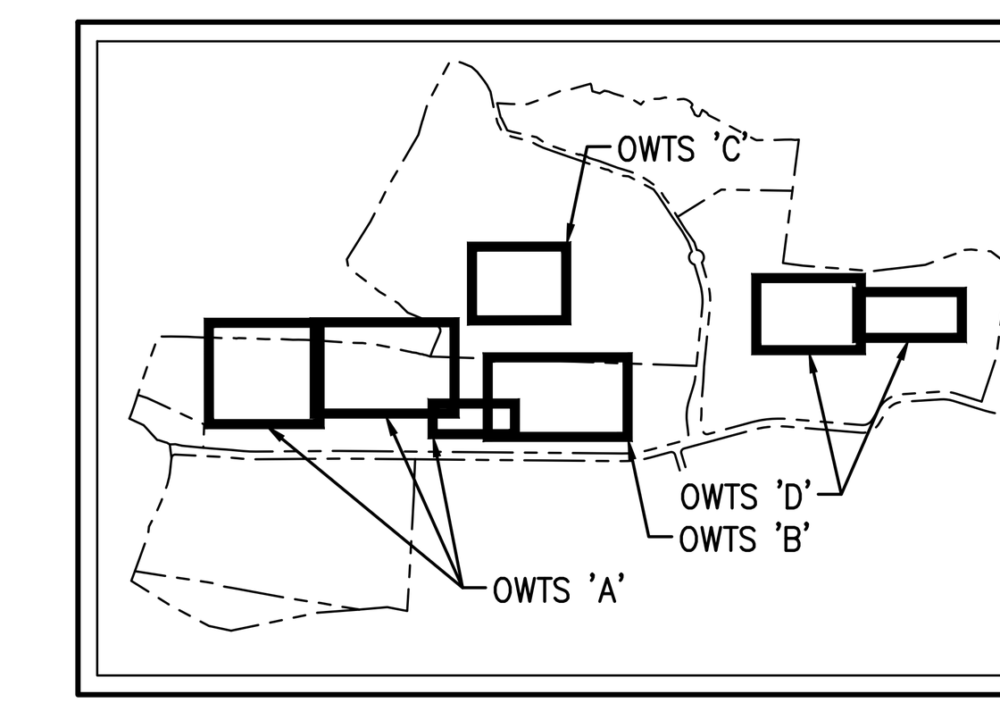

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GRAPHIC SCALE
(IN FEET)
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STATE OF NEW YORK · DAVID P. LOMBARDI · LICENSED PROFESSIONAL ENGINEER · 071001

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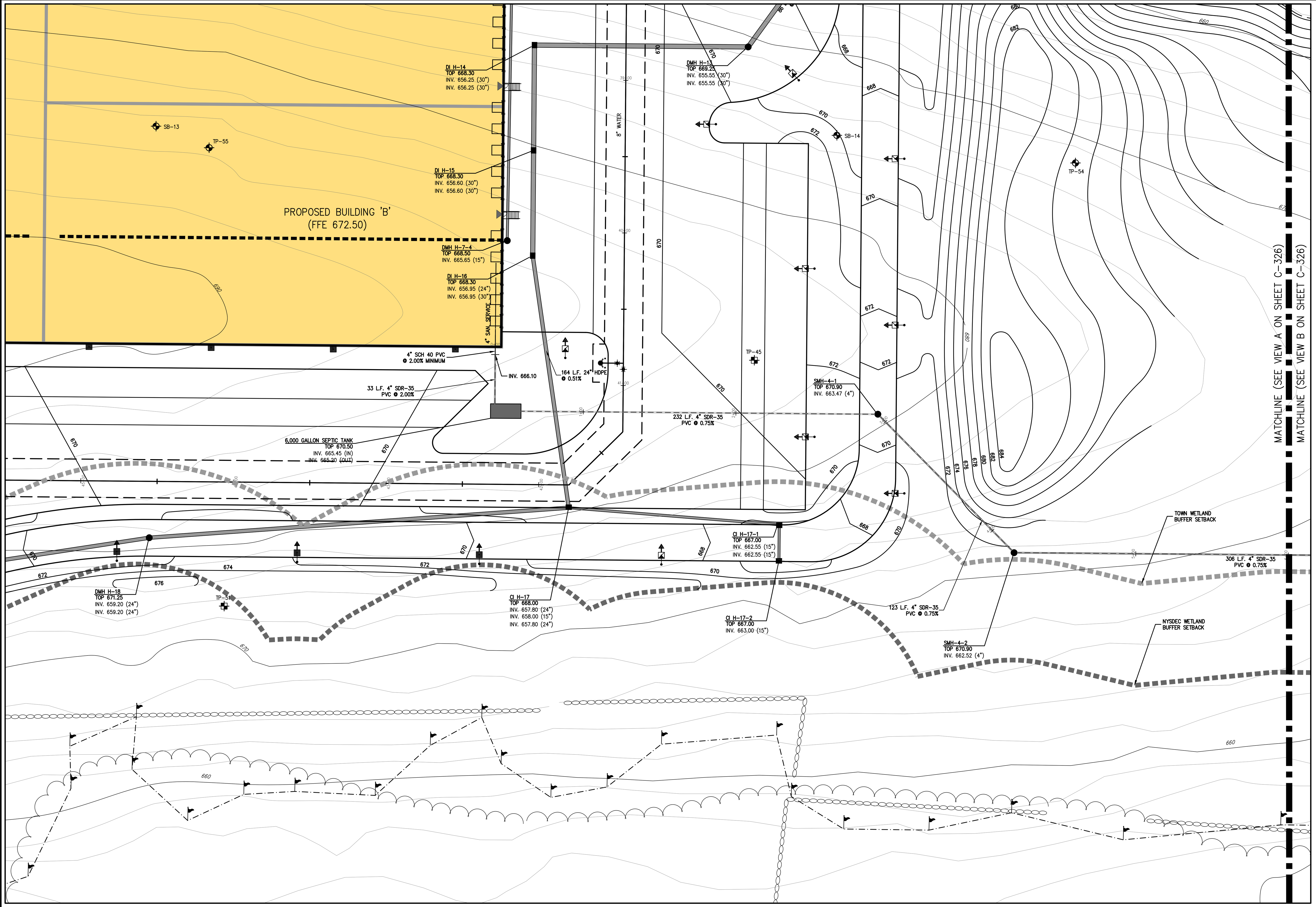
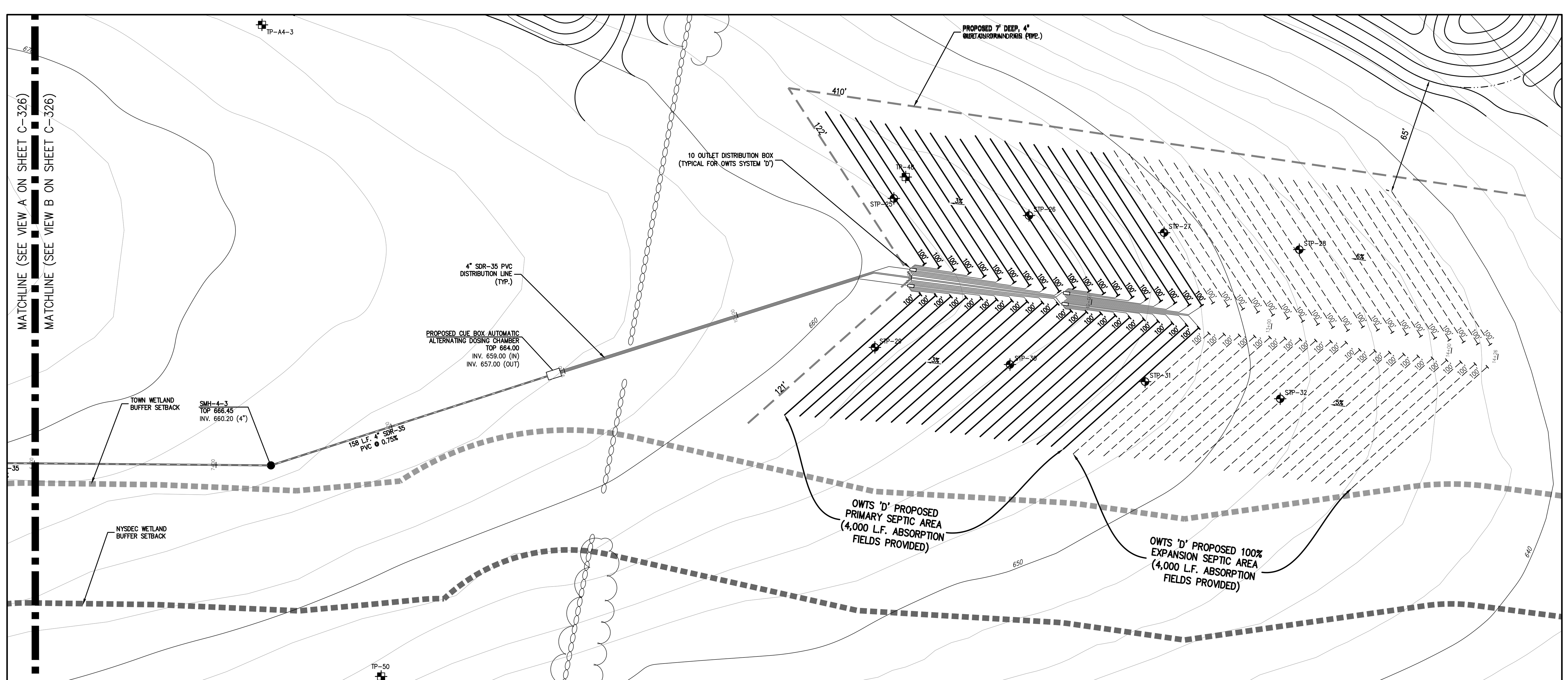


VIEW A



VIEW B

LEGEND

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	PROPOSED SUBDIVISION LINE
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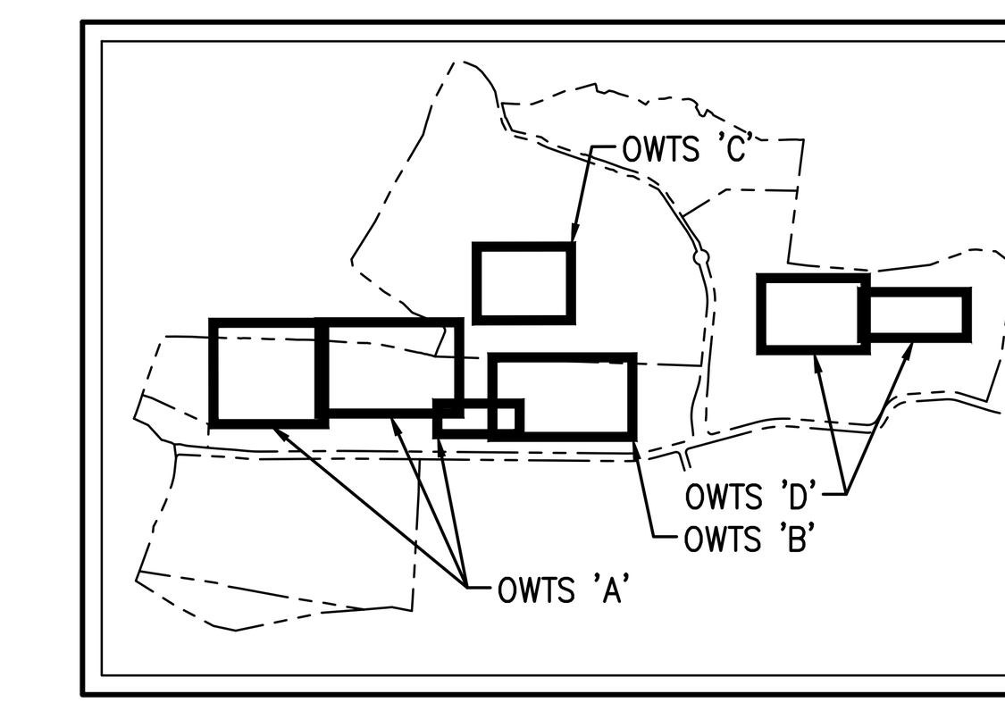

OWTS KEY MAP
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16. ALL EROSION CONTROL MEASURES FOR THE BUILDINGS, WELLS AND SSTS'S ARE TO BE INSTALLED PRIOR TO ANY CONSTRUCTION.
17. THE CONDITIONS NOTED ON THE PUTNAM COUNTY DEPARTMENT OF HEALTH LETTER OF APPROVAL ARE AN INTEGRAL PART OF THIS APPROVAL AND COMPLIANCE IS REQUIRED.
18. THIS PLAN IS APPROVED FOR SEWAGE TREATMENT AND/OR WATER SUPPLY ONLY, AND ALL OTHER PERMITS AND/OR APPROVALS ARE THE RESPONSIBILITY OF THE PERMITEE.
19. THE PUTNAM COUNTY HEALTH DEPARTMENT APPROVAL EXPIRES TWO (2) YEARS FROM THE DATE OF THE APPROVAL STAMP AND IS REQUIRED TO BE RENEWED ON OR BEFORE THE EXPIRATION DATE. THE APPROVAL IS REVOCABLE FOR CAUSE OR MAY BE AMENDED OR MODIFIED WHEN CONSIDERED NECESSARY BY THE DEPARTMENT.

No.	Revision	Date	By

APPLICANT/OWNER:
PUTNAM SEABURY PARTNERS, L.P.
287 KING STREET
CHAPPAQUA, NY 10514

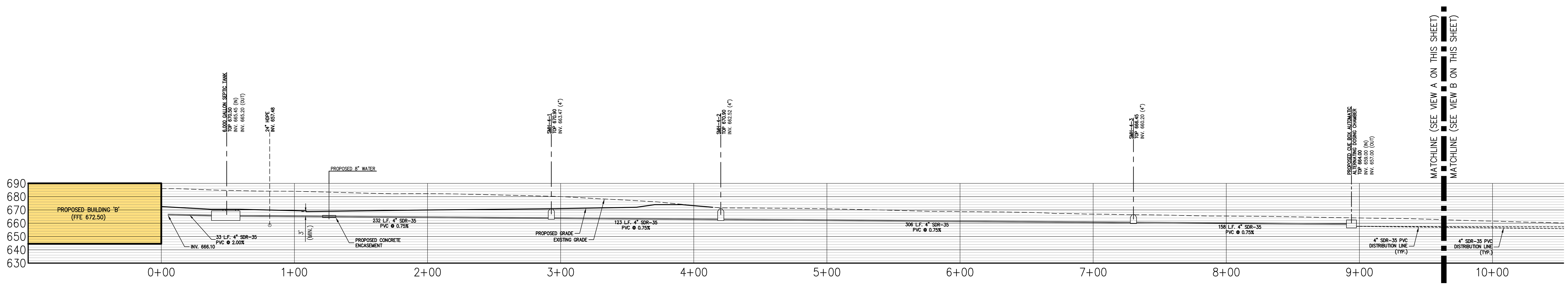
JMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC
JMC Site Development Consultants, LLC
John Meyer Consulting, Inc.
120 BEDFORD ROAD • ARMONK, NY 10504
voice 914.273.5225 • fax 914.273.2102
www.jmcpllc.com

OWTS PLAN 'D'

COMMERCIAL CAMPUS AT FIELDS CORNER
NY 312 & PUGSLEY ROAD
TOWN OF SOUTHEAST, NEW YORK

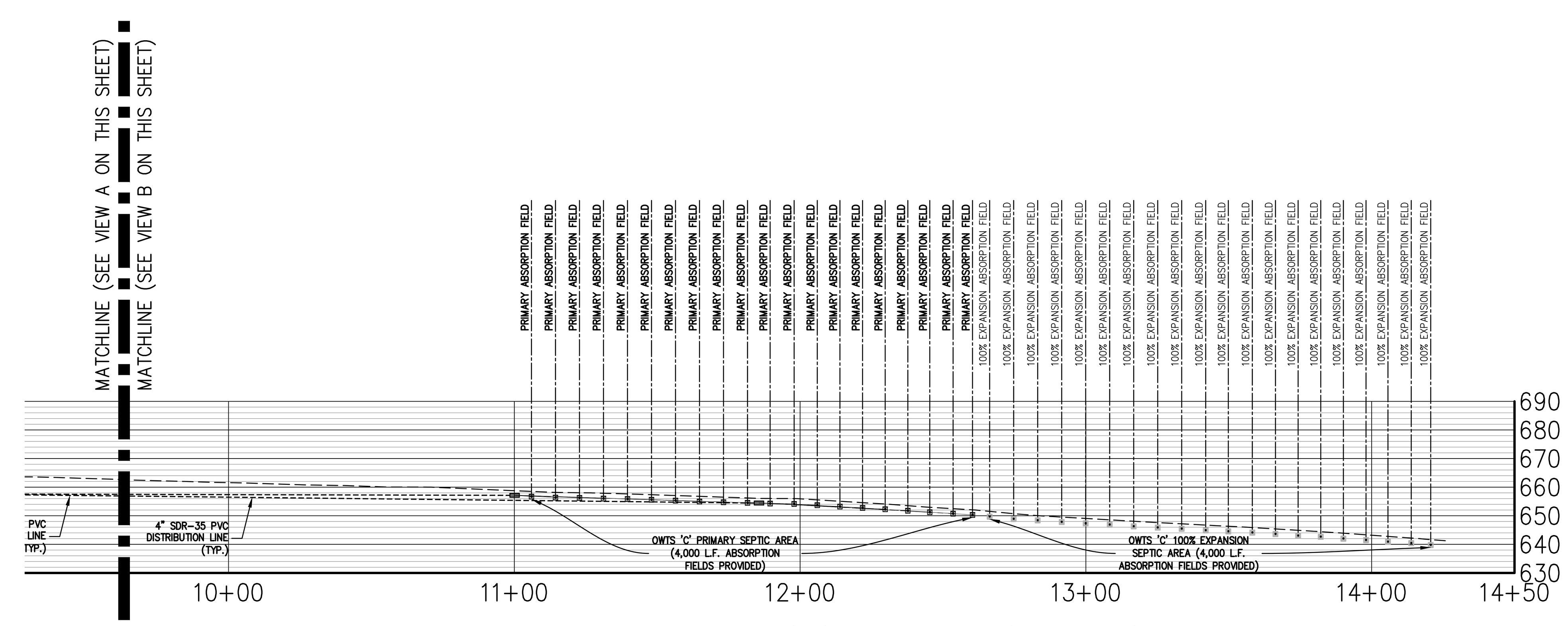
STATE OF NEW YORK • DAVID P. LOMBARDI • LICENSED PROFESSIONAL ENGINEER • 071001

Drawn: KRM	Approved: DL	
Scale:	1" = 30'	
Date:	01/06/2020	
Project No:	14012	
14012-OWTS	C-326	OWTS.scr
Drawing No:	C-326	



OWTS SYSTEM 'D' PROFILE (VIEW A)

VERTICAL SCALE: 1" = 30'
HORIZONTAL SCALE: 1" = 30'



OWTS SYSTEM 'D' PROFILE (VIEW B)

VERTICAL SCALE: 1" = 30'
HORIZONTAL SCALE: 1" = 30'

No. | Revision | Date | By

APPLICANT/OWNER:
PUTNAM SEABURY PARTNERS, L.P.
287 KING STREET
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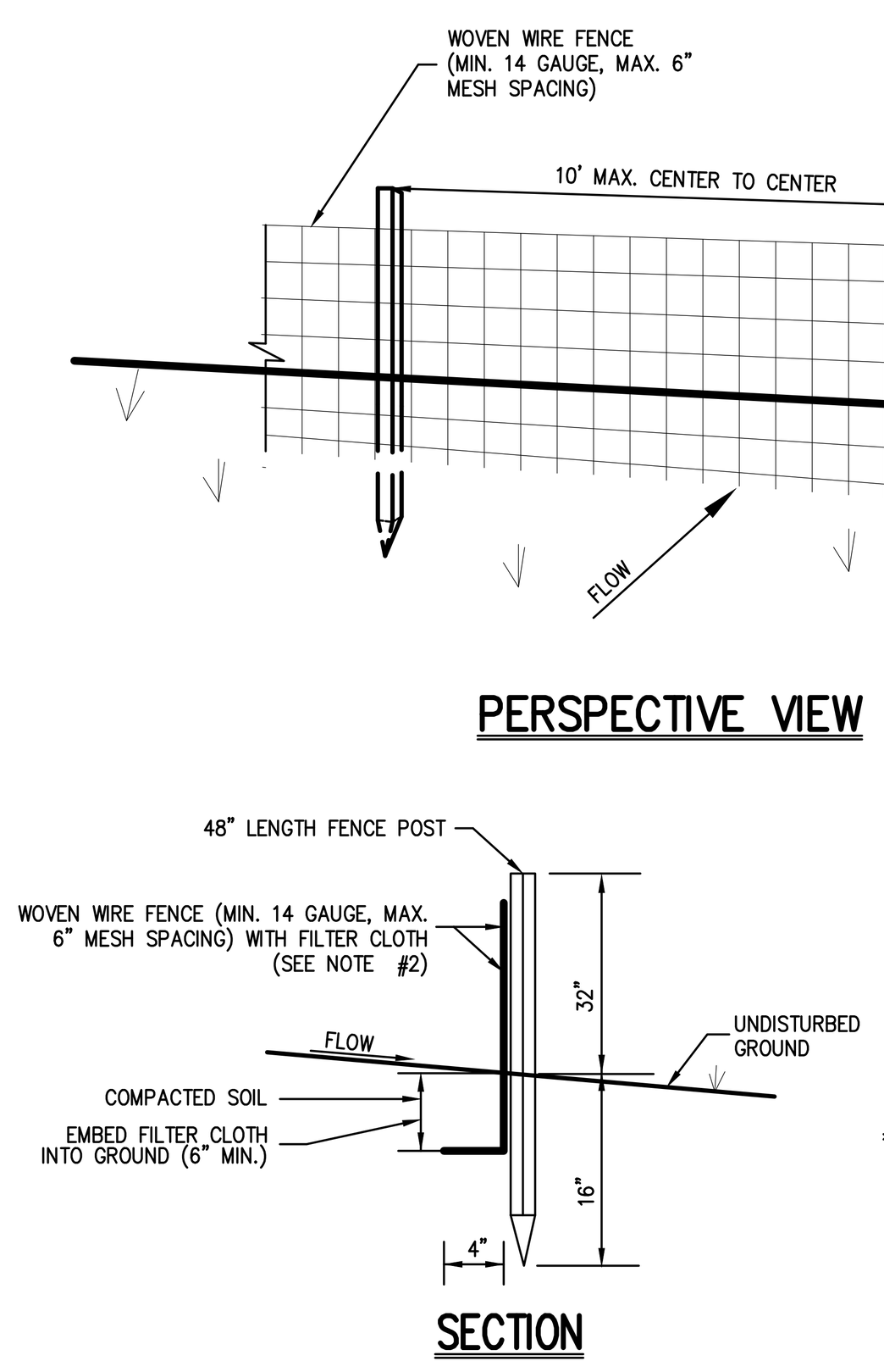
OWTS 'D' PROFILE

COMMERCIAL CAMPUS AT FIELDS CORNER
NY 312 & PUGSLEY ROAD
TOWN OF SOUTHEAST, NEW YORK

ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 7209, SUBSECTION 2.

Drawn: KRM Approved: DL
Scale: 1" = 30'
Date: 01/06/2020
Project No: 14012
Drawing No: C-327

NOT FOR CONSTRUCTION



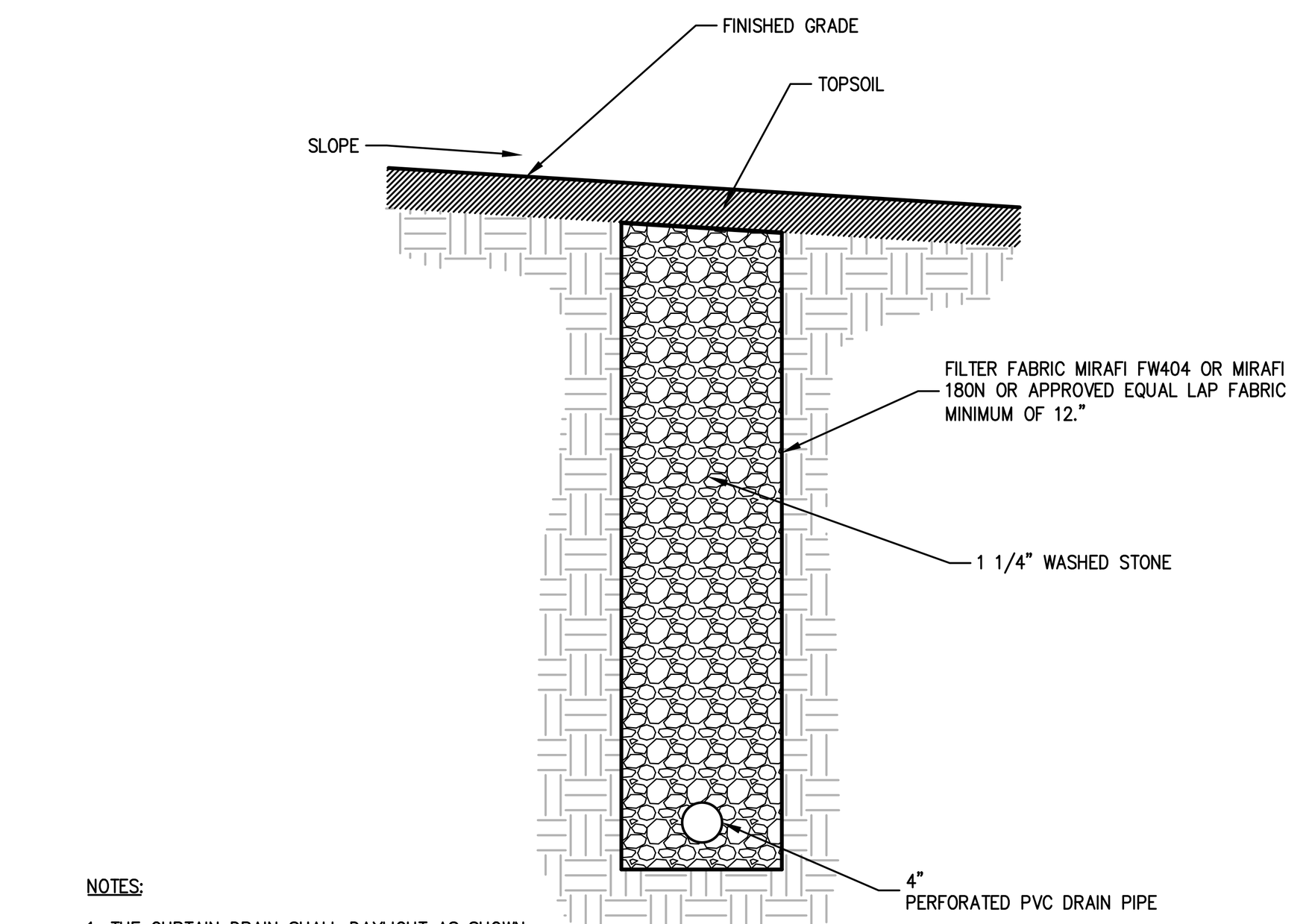
SLOPE	STEEPNESS	SLOPE LENGTH/FENCE LENGTH (FT.)
2–10%	50:1 TO 10:1	250/2000
10–20%	10:1 TO 5:1	150/1000
20–33%	5:1 TO 3:1	60/750
33–50%	3:1 TO 2:1	70/350
>50%	>2:1	30/175

*ALL SILT FENCES SHALL BE PLACED AS CLOSE TO THE DISTURBED AREA AS POSSIBLE, BUT AT LEAST 10 FEET FROM THE TOE OF A SLOPE STEEPER THAN 3H:1V, TO ALLOW FOR MAINTENANCE AND ROLL DOWN. THE AREA BEYOND THE FENCE MUST BE UNDISTURBED OR STABILIZED.

NOTES:

1. WOVEN WIRE FENCE SHALL BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL, EITHER T OR U TYPE OR HARDWOOD.
2. FILTER CLOTH SHALL BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABLINKA T140N, OR APPROVED EQUAL.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED AND REPLACED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

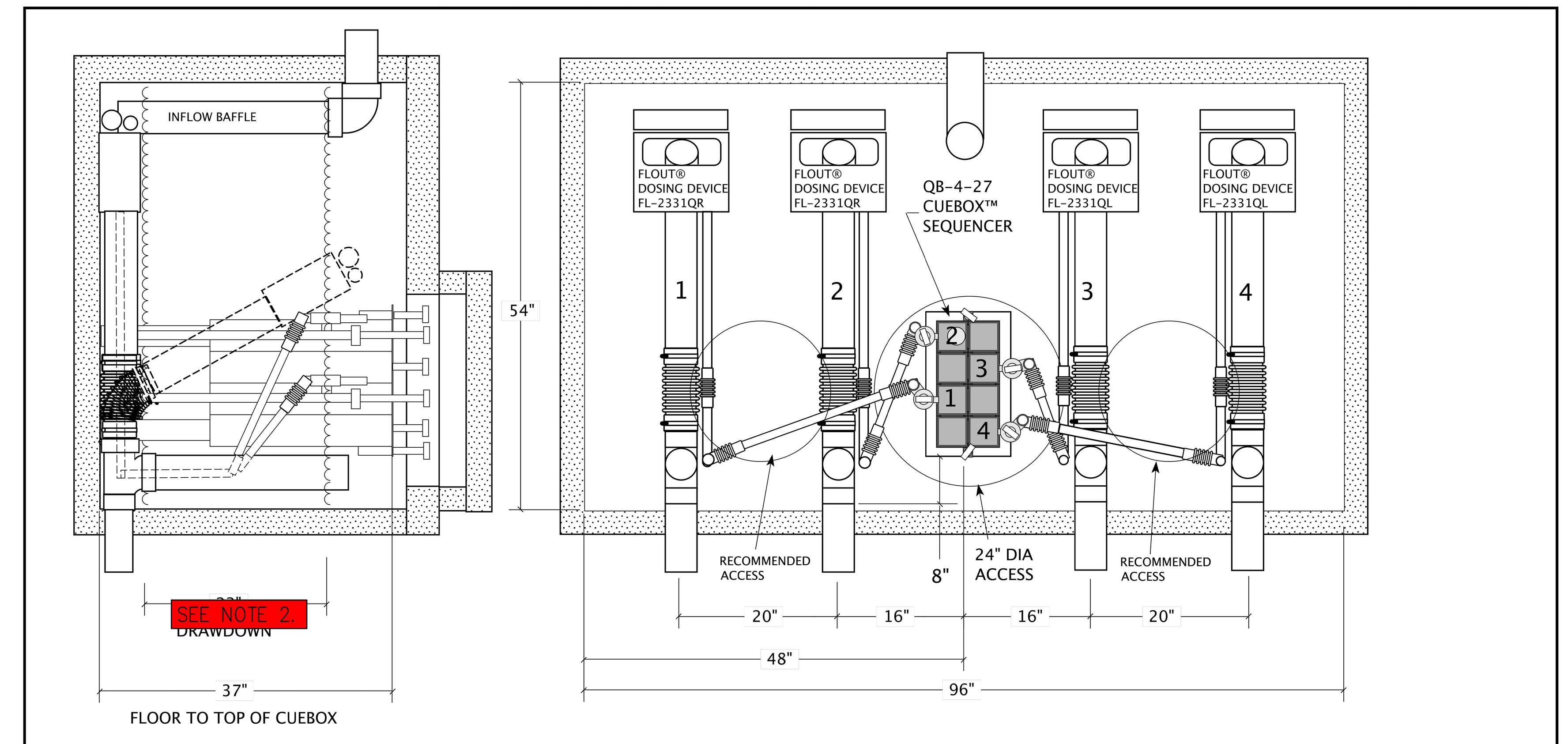
SILT FENCE — 1



NOTES:

1. THE CURTAIN DRAIN SHALL DRAIN DAYLIGHT AS SHOWN ON THE SITE PLAN WITH A RODENT SCREEN.
2. PIPE SHALL BE INSTALLED WITH PERFORATIONS DOWN.

CURTAIN DRAIN — 2



NOTES:

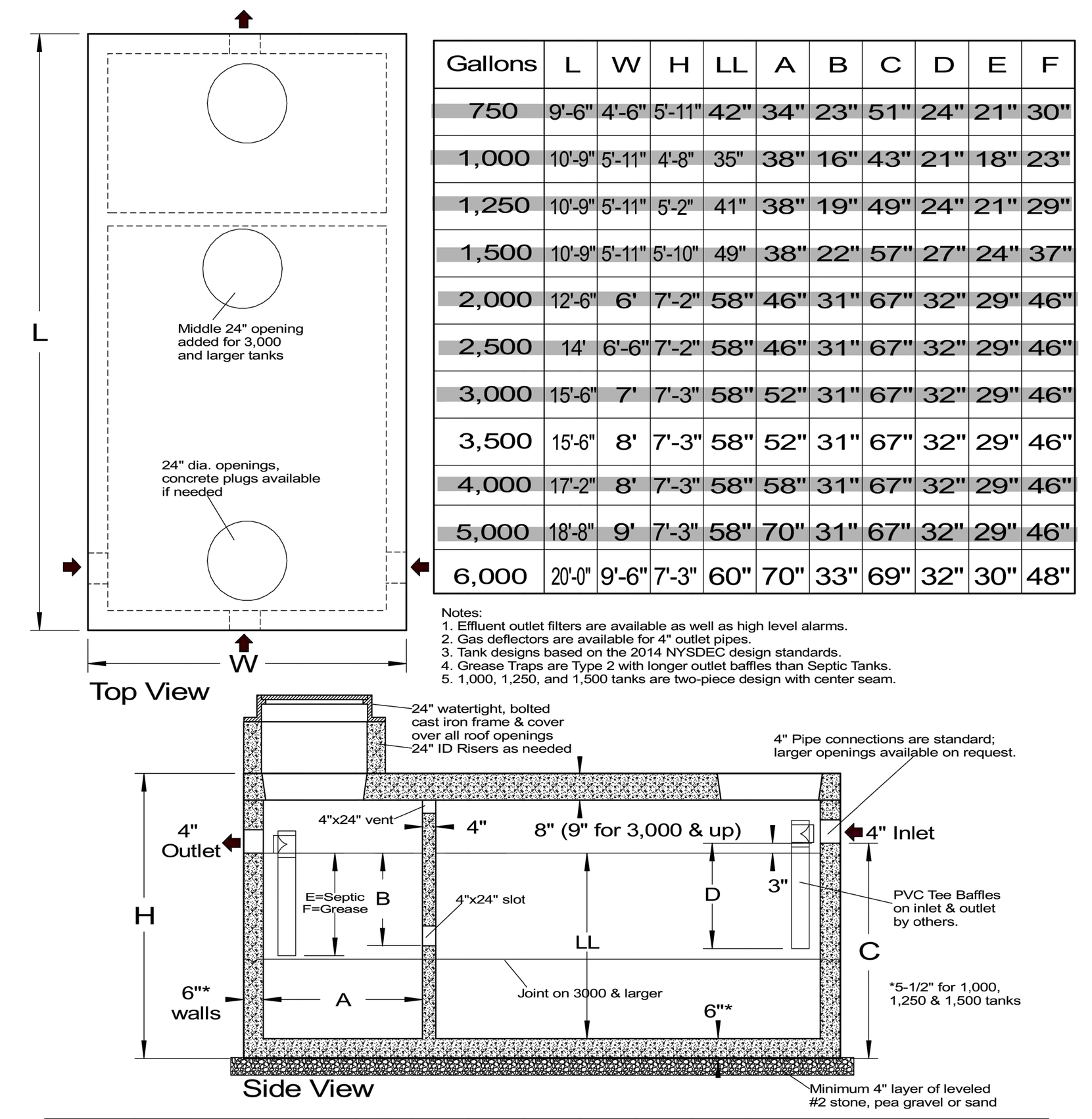
1. CUE BOXES SHALL BE MANUFACTURED BY RISSY PLASTICS THEY SHALL BE SET TO ALTERNATE ON THEIR OWN.
2. THE DOSE FOR SEPTIC SYSTEMS FOR BUILDING A SHALL BOTH BE SET AT 450 GALLONS (20 INCHES) FOR BUILDING B THE DOSE SHALL BE SET AT 500 GALLONS (22.5 INCHES).
3. BOX SHALL BE SET ON A 4" BED OF GRAVEL.
4. PROVIDE MANHOLE CASTING TO GRADE

A PROPOSED DOSING CHAMBER WITH FOUR FLOUT® DOSING DEVICES EACH WITH ONE 3 INCH DIAMETER OUTLET . DOSING SEQUENCE CONTROLLED BY A CUEBOX™ SEQUENCER. 23 INCH DRAWDOWN.
DOSING DEVICES BY RISSY PLASTICS, 350 CEDAR LANE TORRINGTON, CT 06790 860-482-1645 RISSYPLASTICS.COM
FLOUT.NET TANXRUS@AOL.COM PRECAST CONCRETE/ OTHER MATERIAL CHAMBER BY OTHERS

FLOUT® US PATENT 5290434 CUEBOX™ US PATENT PENDING ©2010 JAMES RICHARD DRAWING BY JAMES RICHARD

SCALE: 1 INCH = 1 FOOT SYSTEM : FLQ-2331X4

RISSY PLASTICS CUE BOX ALTERNATING DOSING CHAMBER — 3



Gallons	L	W	H	LL	A	B	C	D	E	F
750	9'-6"	4'-6"	5'-11"	42"	34"	23"	51"	24"	21"	30"
1,000	10'-9"	5'-11"	4'-8"	35"	38"	16"	43"	21"	18"	23"
1,250	10'-9"	5'-11"	5'-2"	41"	38"	19"	49"	24"	21"	29"
1,500	10'-9"	5'-11"	5'-10"	49"	38"	22"	57"	27"	24"	37"
2,000	12'-6"	6'	7'-2"	58"	46"	31"	67"	32"	29"	46"
2,500	14'	6'-6"	7'-2"	58"	46"	31"	67"	32"	29"	46"
3,000	15'-6"	7'	7'-3"	58"	52"	31"	67"	32"	29"	46"
3,500	15'-6"	8'	7'-3"	58"	52"	31"	67"	32"	29"	46"
4,000	17'-2"	8'	7'-3"	58"	58"	31"	67"	32"	29"	46"
5,000	18'-8"	9'	7'-3"	58"	70"	31"	67"	32"	29"	46"
6,000	20'-0"	9'-6"	7'-3"	60"	70"	33"	69"	32"	30"	48"

Notes:
1. Effluent outlet filters are available as well as high level alarms.
2. Gas deflectors are available for 4" outlet pipes.
3. Tank designs based on the 2014 NYSDEC design standards.
4. Grease Traps are Type 2 with longer outlet baffles than Septic Tanks.
5. 1,000, 1,250, and 1,500 tanks are two-piece design with center seam.

SPECIFICATIONS

Concrete Min. Strength: 4,000 psi at 28 days
Reinforcement: #4 & #5 Rebar / ASTM A615
Air Entrainment: 6%
Construction Joint: Butyl Rubber Sealant
Pipe Connection: Polylok Seal or as needed
Load Rating: HS20-44 + 30% / ASTM C857

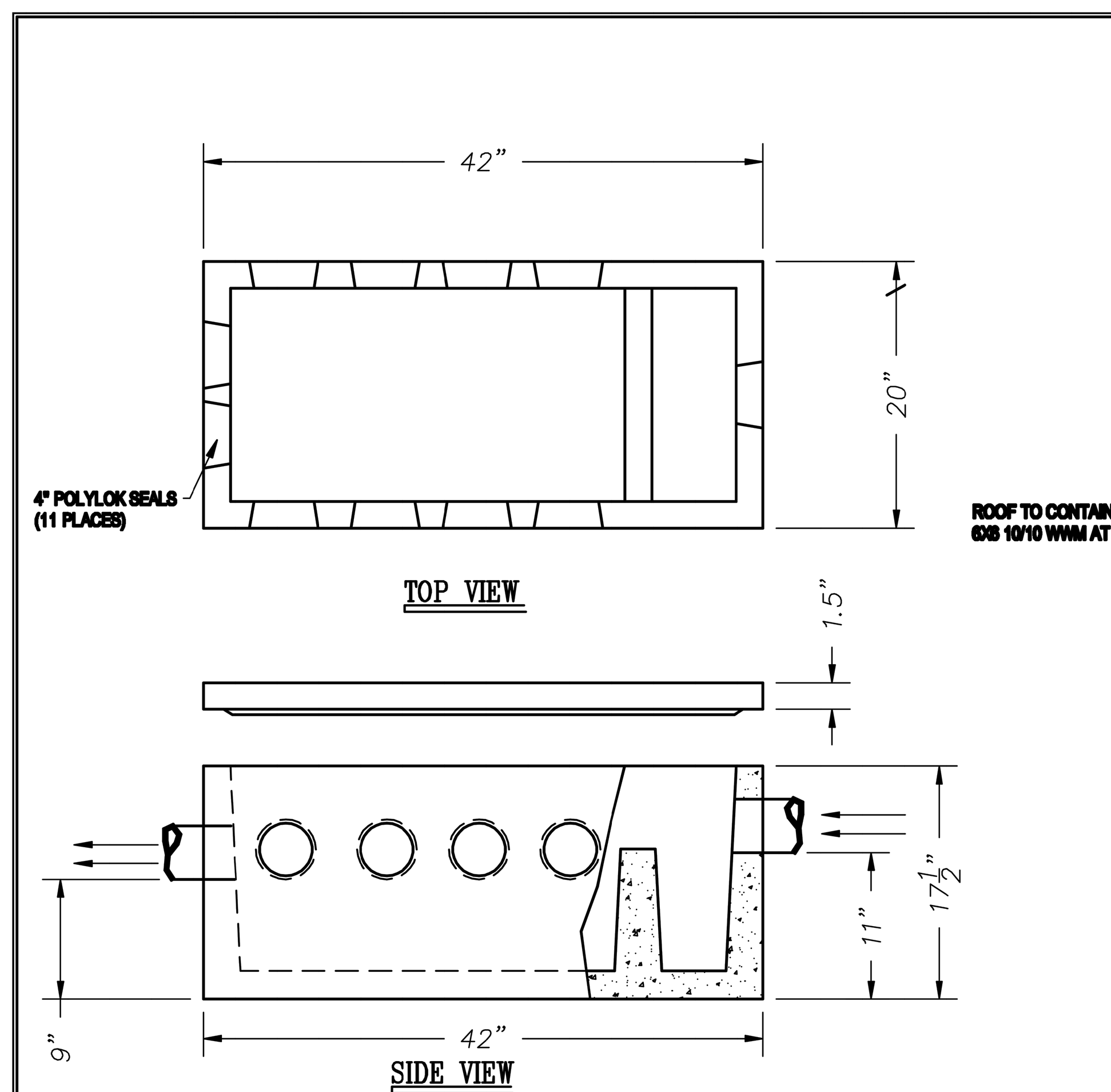
PRECAST TRAFFIC DUTY TANKS
750 TO 6,000 GALLONS
SEPTIC TANKS & GREASE TRAPS

Woodard's Concrete Products, Inc.
629 Lybolt Road, Bullville, NY 10915
(845) 361-3471 / Fax 361-1050

Page 4A 7/28/20

www.woodardsconcrete.com

WOODARD CONCRETE HEAVY DUTY SEPTIC TANK — 4



NOTES:
1. Intentionally left blank
2. **Steel reinforcement: A.S.T.M. A496-A615 Grade 60-60 ksi**
3. Intentionally left blank
4. **Concrete: 4000 psi @ 28 days, 5% - 9% air entrainment**
5. **Equipped with polylok seals**
6. Intentionally left blank
7. **Design loading A-0.3/ 300 psf - walkways, floatation forces not accounted for**
8. **Max. cover over tank: 3' of earth fill**
9. Min. 1" concrete cover over reinforcement
10. Tank to conform with ASTM C1227

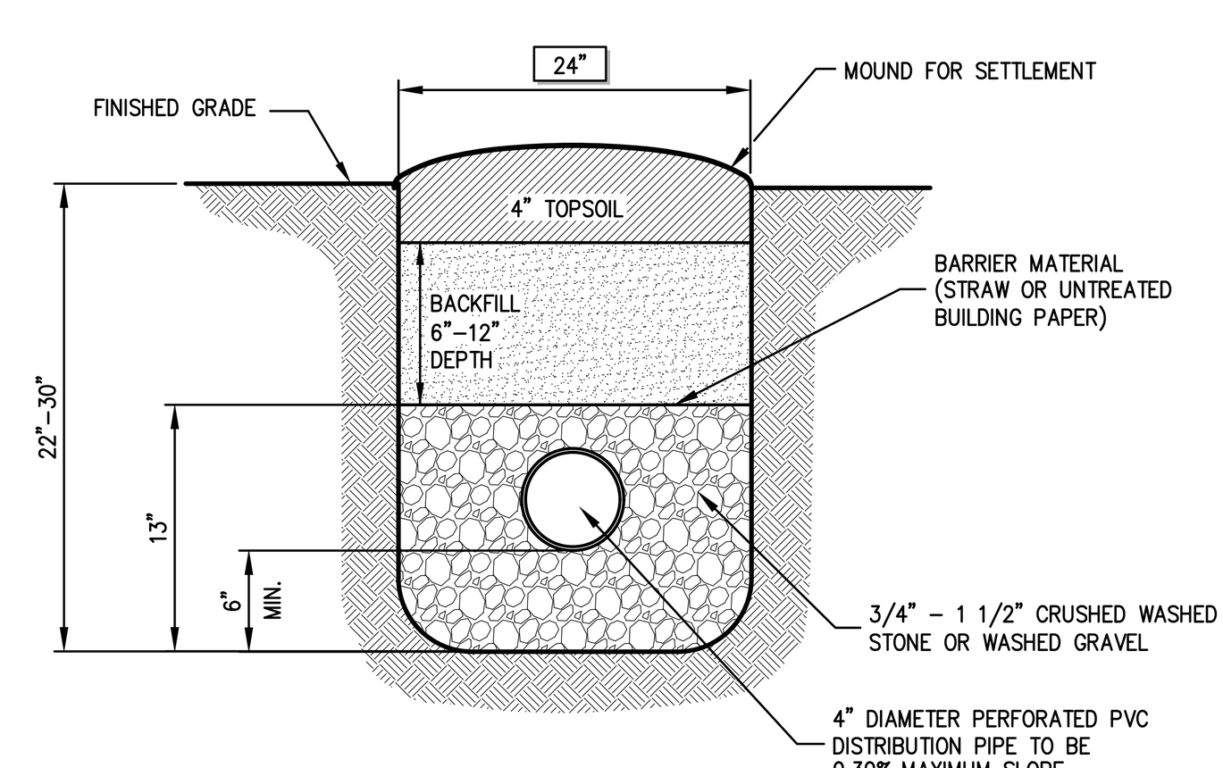
NOTES:
1. ANY UNUSED OUTLETS SHALL REMAIN PLUGGED.
2. SPEED LEVELLERS SHALL BE USED TO ENSURE EQUAL DISTRIBUTION TO ALL LINES.
3. BOX SHALL HAVE A MARKER TO GRADE
4. MAXIMUM COVER ON BOX SHALL BE 12"
5. BOXES SHALL BE SET ON 6" CRUSHED STONE FOUNDATION
6. PROVIDE MANHOLE CASTING TO GRADE

MHCP
MID-HUDSON CONCRETE PRODUCTS
ROUTE 9, COLD SPRING, NY 10516
(845) 265 - 3265

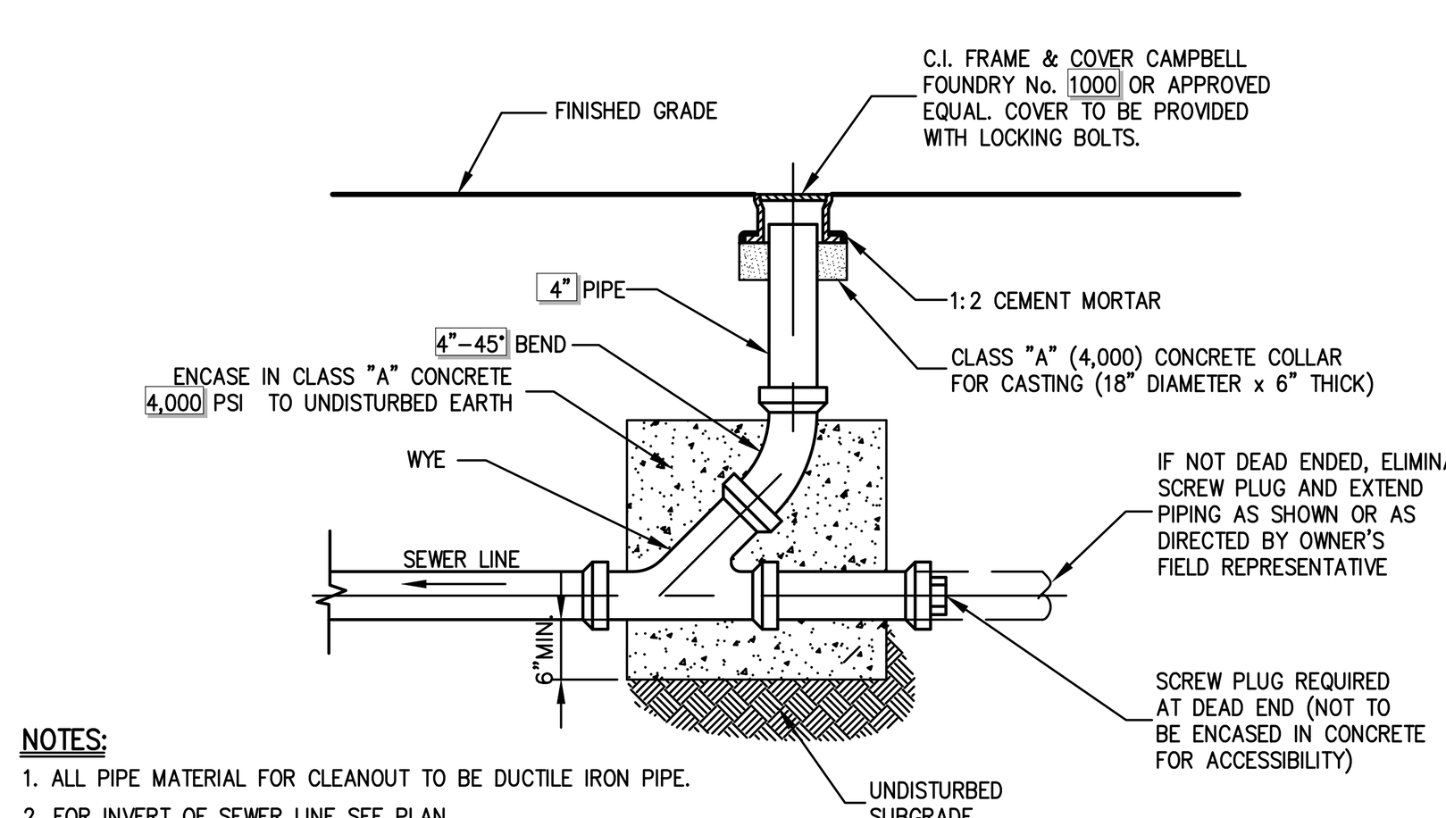
PRODUCT SPECIFICATION
11 HOLE DISTRIBUTION BOX

DRAWING NUMBER: 11-HDB
3/13/2012

MID–HUDSON CONCRETE DISTRIBUTION BOX — 5

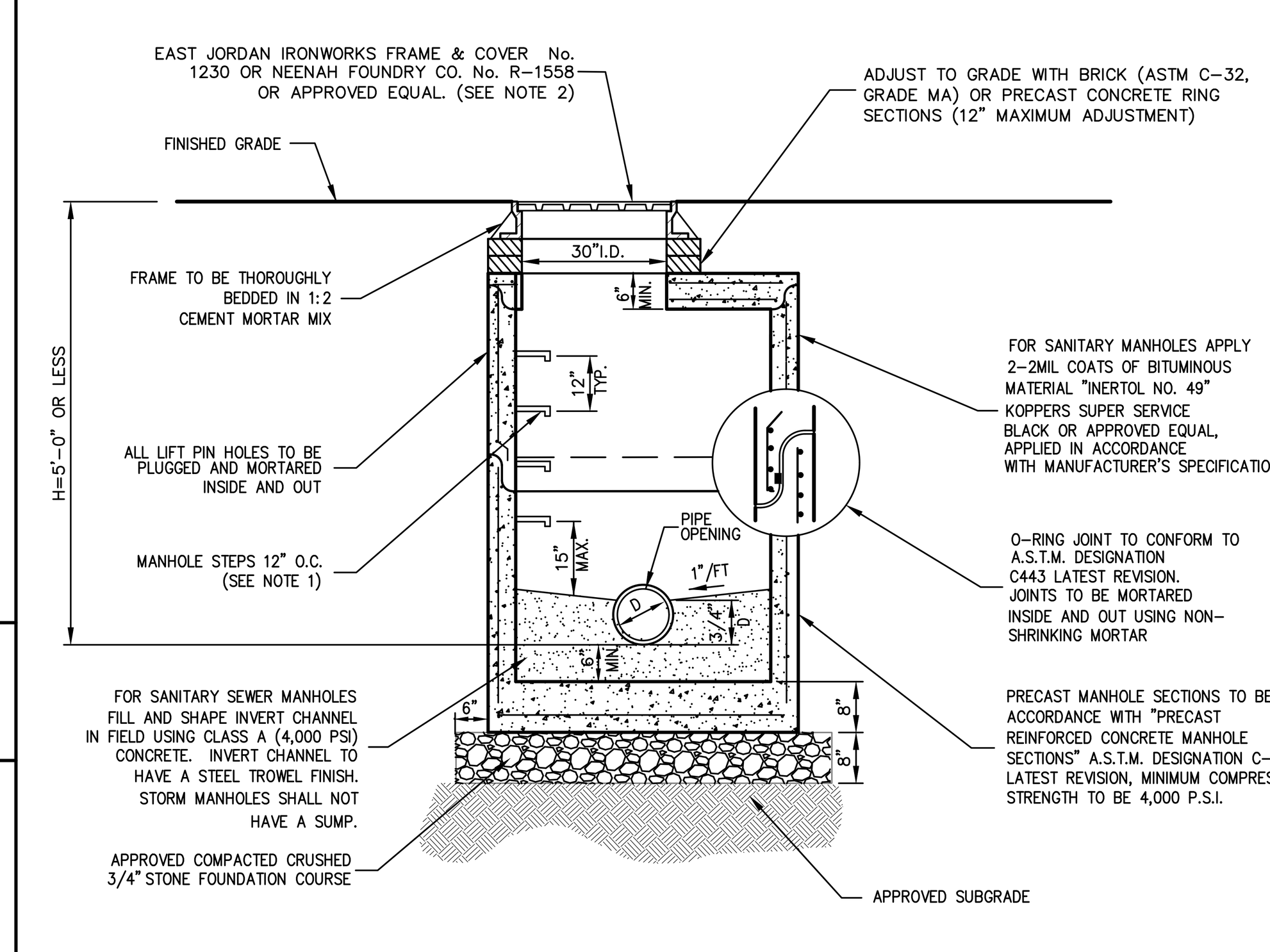


SEPTIC FIELDS — 6

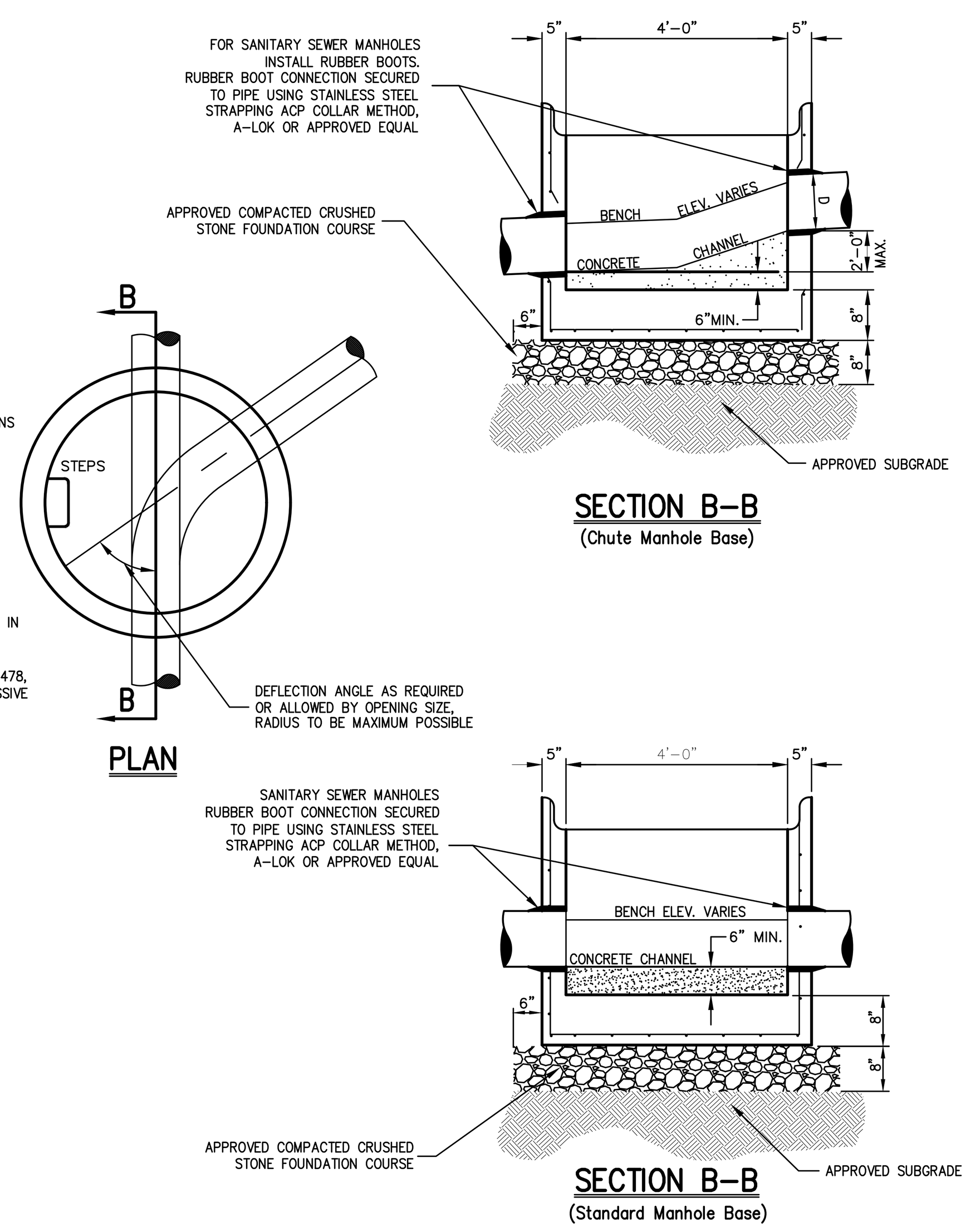


NOTES:
1. ALL PIPE MATERIAL FOR CLEANOUT TO BE DUCTILE IRON PIPE.
2. FOR INVERT OF SEWER LINE SEE PLAN.

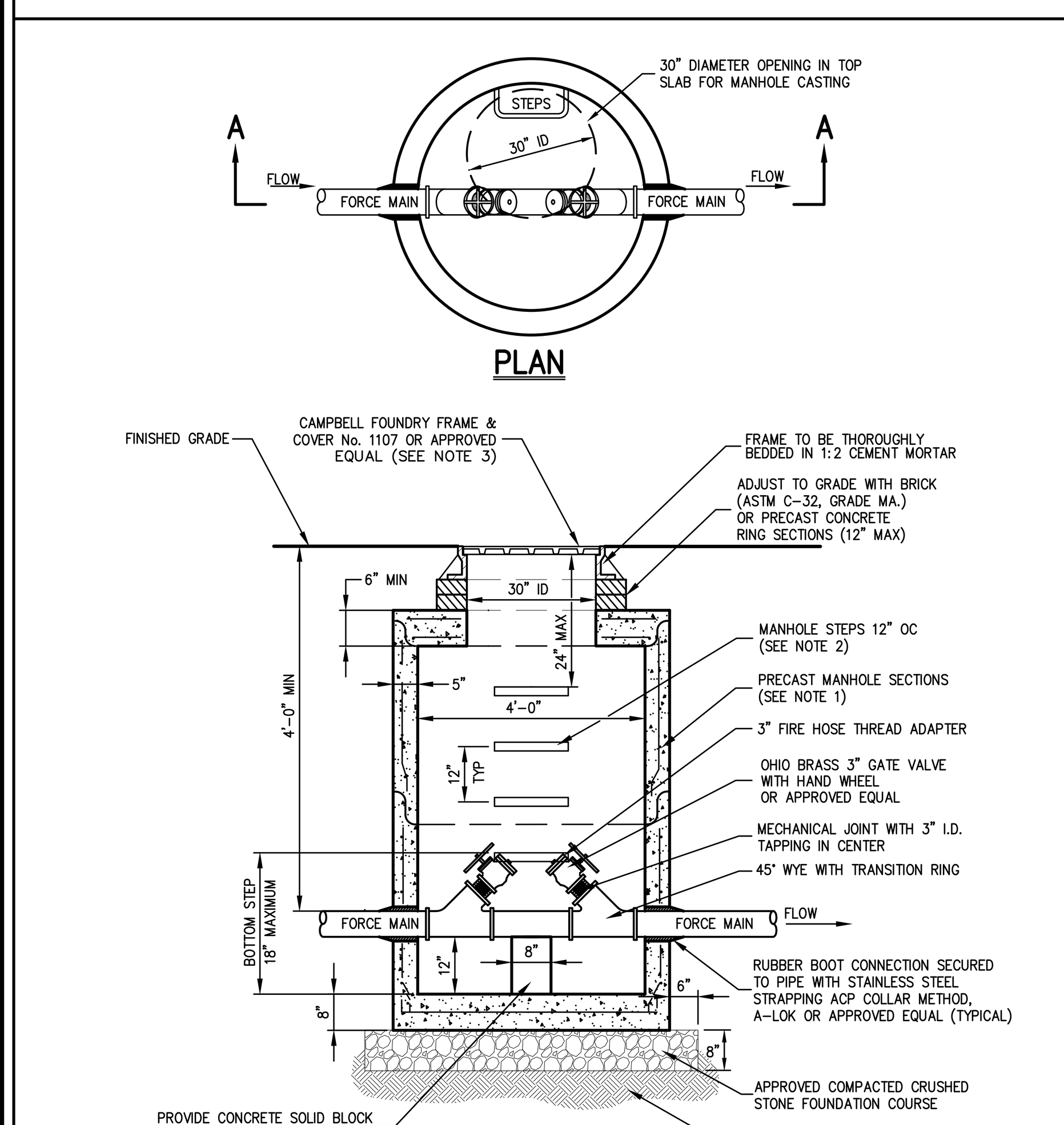
CLEANOUT W/O MANHOLE — 7



NOTES:
1. MANHOLE STEPS SHALL BE CAST IRON NEENAH No. R–1981–0 OR CAMPBELL FOUNDRY No. 2588–1 OR POLYPROPYLENE COATED STEEL (SEE SPECIFICATIONS) OR APPROVED EQUAL.
2. UNLESS OTHERWISE SPECIFIED, SANITARY SEWER MANHOLES SHALL HAVE LETTERS "SEWER" AND STORM DRAIN MANHOLES SHALL HAVE LETTERS "DRAIN" CAST ON COVER. THE COVERS SHALL HAVE VENT HOLES.
3. MANHOLES SHALL MEET OR EXCEED A.S.T.M. AND O.S.H.A. REQUIREMENTS.

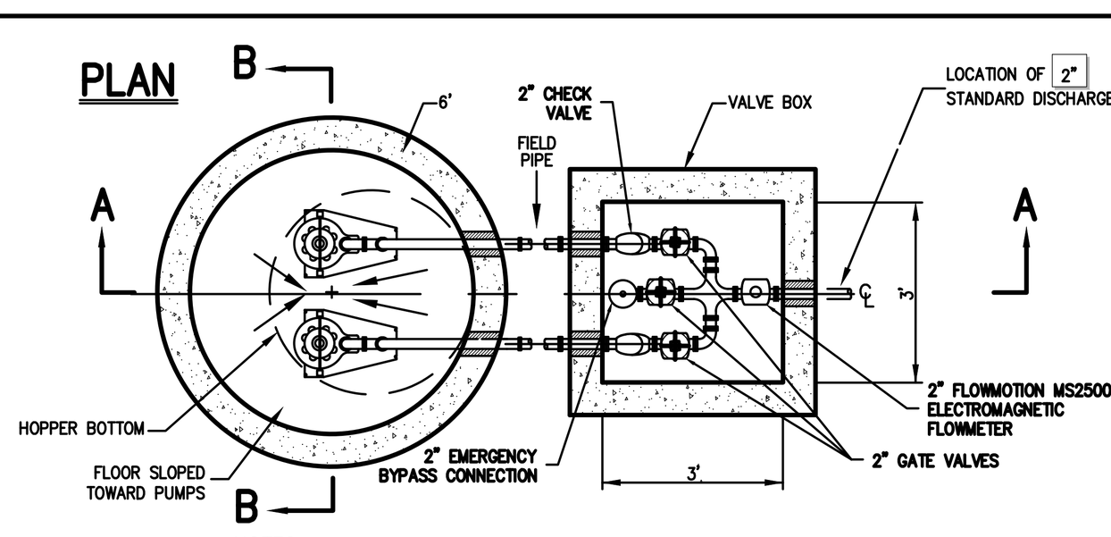


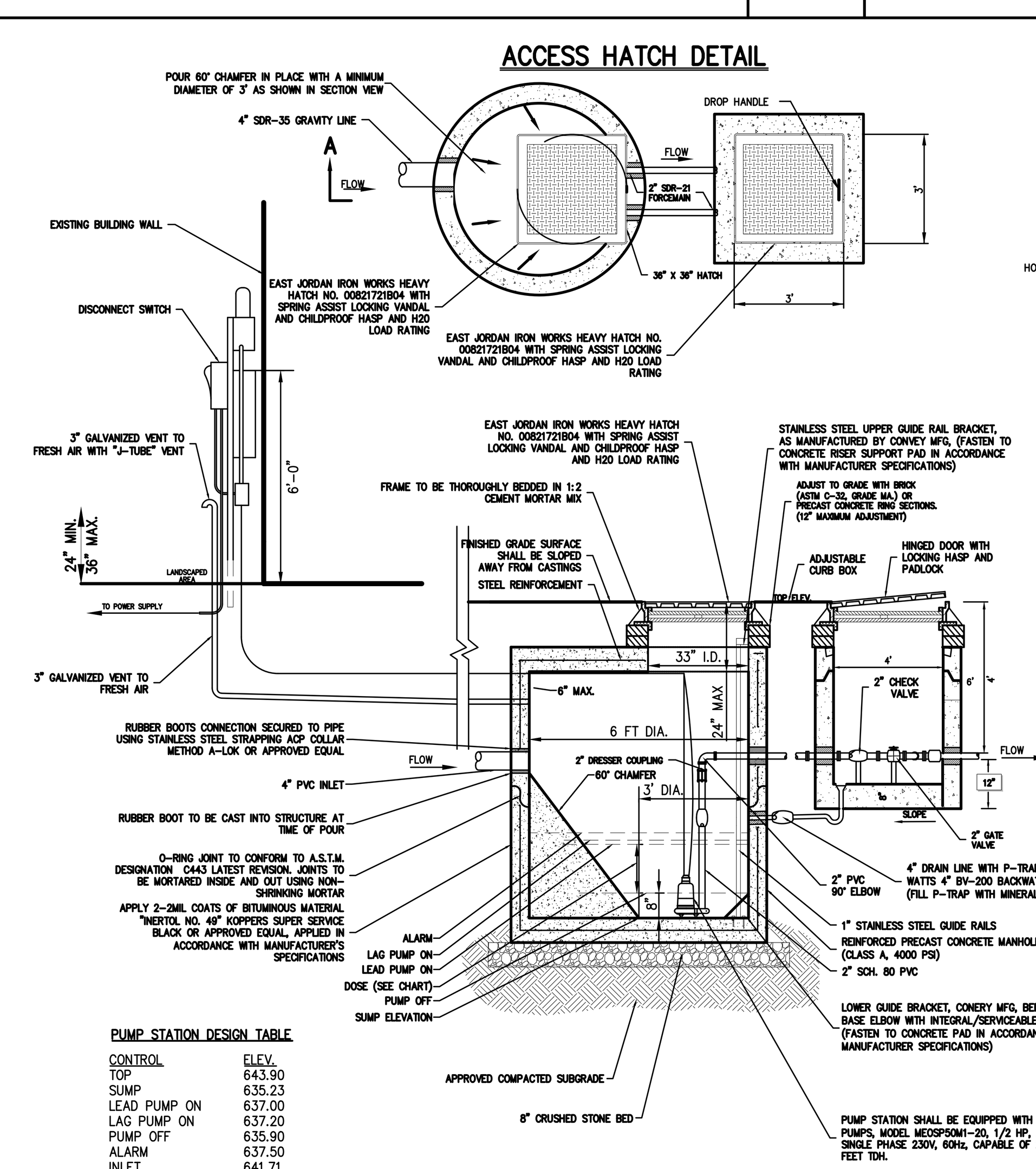
MANHOLE (TYPE A) — 8



NOTES:
1. PRECAST CONCRETE MANHOLE SHALL COMPLY WITH ASTM STANDARD C-478. MANHOLE JOINTS SHALL COMPLY WITH ASTM STANDARD C-443.
2. MANHOLE STEPS SHALL BE CAST IRON NEENAH No. R-1981-0 OR CAMPBELL FOUNDRY No. 2588-1 OR POLYPROPYLENE COATED STEEL (SEE SPECIFICATIONS) OR APPROVED EQUAL.
3. UNLESS OTHERWISE SPECIFIED, MANHOLE COVER SHALL HAVE LETTERS "SEWER" CAST ON COVER. COVER SHALL HAVE VENT HOLES.

SANITARY SEWER FORCE MAIN CLEANOUT IN MANHOLE — 9

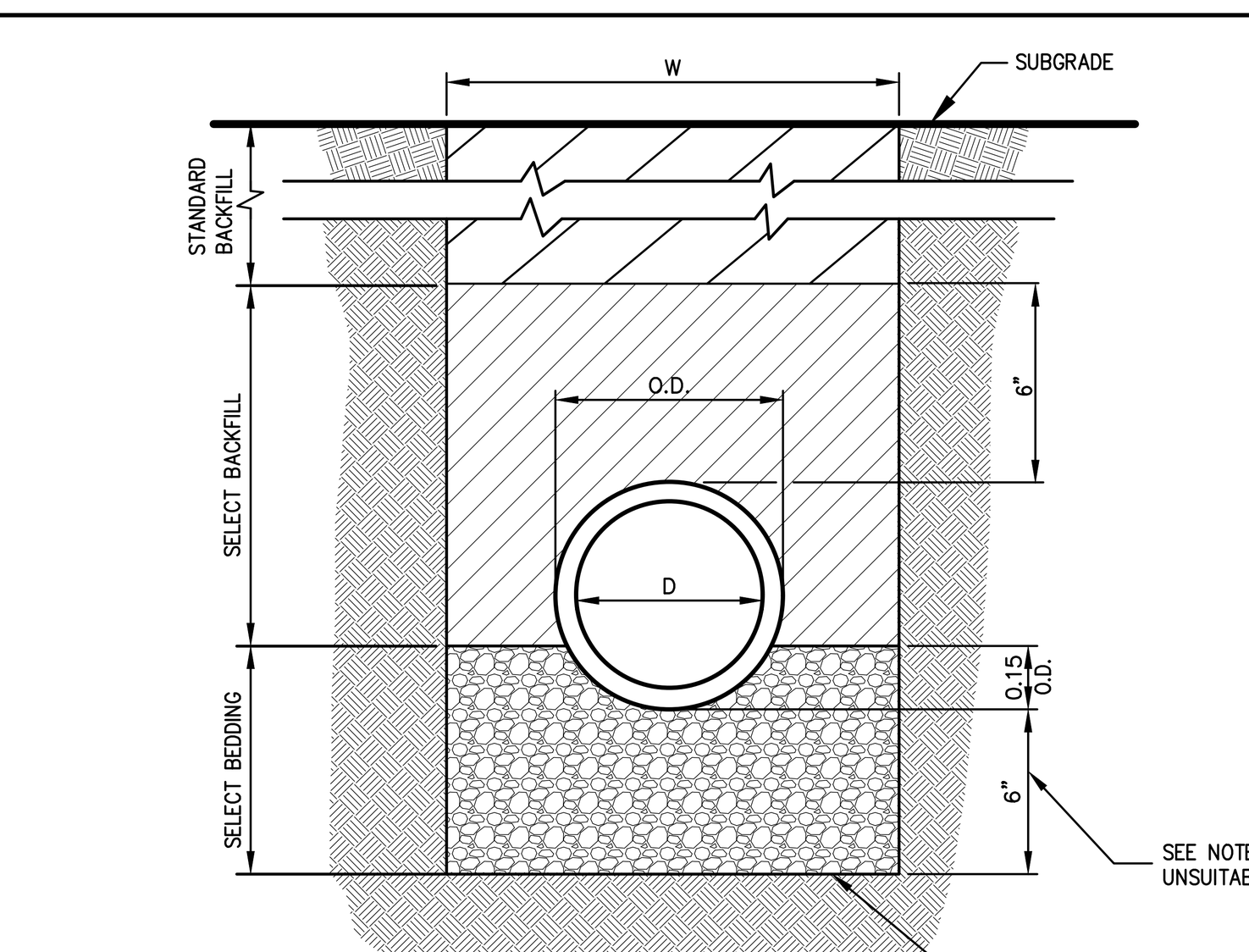




PUMP	MAKE	MODEL	RATED CAPACITY	H.P.	TDH
PRIMARY	MYERS	MESP50M1-20	25 GPM	1/2	16'
EXPANSION	MYERS	MESP50M1-20	25 GPM	1/2	36'

TABLE OF PUMP SPECIFICATIONS

SANITARY SEWER PUMP STATION — 10



D=INSIDE DIAMETER, SPAN, OR RISE
O.D.=OUTSIDE BARREL DIAMETER, SPAN OR RISE
H.D.=OUTSIDE DIAMETER, SPAN, OR RISE @ BELL OR BAND
W=H.D. + 2.0' – FOR 48" OR SMALLER DIAMETER, SPAN, OR RISE
W=H.D. + 2.5' – FOR GREATER THAN 48" DIAMETER, SPAN, OR RISE

NOTES:
1. FOR TYPE II TRENCH, MATERIAL FOR SELECT BEDDING AND SELECT BACKFILL SHALL BE:
   A. EITHER SAND OR CRUSHED STONE IF NO WATER IS ENCOUNTERED IN TRENCH.
   B. 3/4"CRUSHED STONE IF WATER IS ENCOUNTERED IN TRENCH.
2. TYPE II TRENCH SHALL BE USED IN ALL OF THE FOLLOWING CASES:
   A. FOR ALL CORRUGATED POLYETHYLENE DRAIN PIPE (CPDP) AND PVC PIPE AND CONDUIT INSTALLATION.
   B. WHEN ROCK OR HARDPAN IS ENCOUNTERED IN BOTTOM OF TRENCH.
   C. WHEN UNSUITABLE MATERIAL IS ENCOUNTERED IN BOTTOM OF TRENCH. IN SUCH CASE DEPTH OF UNDERCUTTING SHALL BE AS DIRECTED BY THE ENGINEER WITH 6" MINIMUM.
3. FOR ALL TRENCH EXCAVATION IN FILL AREAS, ALL EMBANKMENTS SHALL BE CONSTRUCTED TO A MINIMUM OF 2 FEET ABOVE THE OUTSIDE TOP (AT THE BELL) OF THE PIPE PRIOR TO BEGINNING ANY TRENCH EXCAVATION.
4. BACKFILL FOR PIPE AND CONDUIT SHALL BE PLACED EVENLY AND CAREFULLY AROUND AND OVER THE PIPE OR CONDUIT IN SIX (6) INCH MAXIMUM LAYERS. EACH LAYER SHALL BE THOROUGHLY AND CAREFULLY COMPACTED UNTIL TWELVE (12) INCHES OF COVER EXISTS OVER THE PIPE OR CONDUIT. THE REMAINDER OF THE BACKFILL MAY THEN BE PLACED AND COMPACTED IN A MAXIMUM OF TWELVE (12) INCH LAYERS. EACH LAYER SHALL BE COMPACTED BY APPROVED MECHANICAL TAMPING MACHINES. UNLESS OTHERWISE SPECIFIED BACKFILL SHALL BE COMPACTED TO NOT LESS THAN 92% MAXIMUM MODIFIED DENSITY IN ACCORDANCE WITH ASTM DESIGNATION D–1557 IN THE MANNER HEREIN DESCRIBED. BACKFILL SHALL PROCEED UP TO THE LINES AND GRADES AS SHOWN ON THE DRAWINGS.

TYPE II TRENCH — 11

X

APPLICANT/OWNER:
PUTNAM SEABURY PARTNERS, L.P.
287 KING STREET
CHAPPAQUA, NY 10514

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OWTS DETAILS

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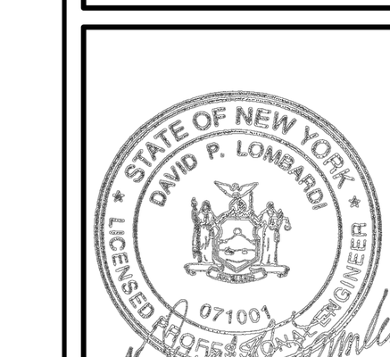

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Scale:	NOT TO SCALE		
Date:	12/16/2020		
Project No:	14012		
14012-OWTS-DETAILS	C-328	–	

Drawing No: C–328

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