

3 Van Wyck Lane Wappingers Falls, New York 12590 Phone: 845-223-3202

October 25, 2022

Dutchess County Health Department Attn: Dan Keeler, PE 85 Civic Center Plaza - Suite 106 Poughkeepsie, New York 12601

#### Re: Lot 4 - Filed map 9132 Tax Id # 135689-6156-02-872849 Cooper Road Town of Wappinger

#### Mr. Keeler:

Please find the following responses to your October 11, 2022 comment letter, in **bold**.

- Please provide proof of preliminary planning board approval as well as the Town SEQR determination, when available.
  A letter from the town's planner indicating this is a type 2 action is attached.
- The HD-I application submitted was not signed by the owner. Please provide a signed copy with your next submission.
  The signed HD1 is included in the revised report.
- 3. Please provide additional information regarding the existing well (i.e. well type, depth, casing, yield, etc.). If paperwork on the yield is not available, please perform a pump test on the well prior to approval. The test must demonstrate a 4-hour stabilized yield and drawdown.

Well information will be available in the beginning of November.

- Please revise the plan to show metes and bounds for the proposed driveway easement. Please also provide a signed easement agreement prior to approval. Metes and bounds are provided.
- Please revise sheet numbering to indicate the total number of sheets (i.e. 1/3).
  Revised
- The existing conditions map and proposed conditions map show the existing absorption system but no existing septic tank for this system is shown on either map. Please locate this structure and specify it to be properly abandoned. Revised

- 7. The SDS abandonment note on sheet C530 appears to indicate that only existing SDS components within the 100% reserve area are to be abandoned as specified. Please revise this note to indicate that all existing structures are to be abandoned as per the procedure specified in this note, not just components within the reserve system area. Please also revise this note to indicate that said abandonment shall be certified by the supervising PE. The note has been revised.
- Please revise the plan such that the neighboring well, located about 108' uphill of the proposed primary OWTS, is not labeled "reputed".
  Revised. The surveyor confirmed this is the correct location.
- 9. Deep tests 3 and 4 do not agree with the results recorded by this office (see attached results). Based on the results recorded by this office, it appears a minimum 4' of fill is required for the reserve system, using an 18" maximum trench depth. Please revise the plan accordingly.

#### The fill and deep test schedule have been revised.

- Grading for the primary and reserve areas must be revised to provide 10' from the lowest trench to the top of slope (6' provided for primary, 3-4' provided for reserve).
  The fill pads have been revised.
- The grading illustrated for the primary system does not illustrate 3' of fill throughout the system. Please revise to show additional fill.
  The system has been revised.
- 12. The reserve system is shown within 20' of the dwelling. Please revise to provide the required separation.The toe of slope is 20' from the building.
- **13**. It is strongly recommended that manhole risers to grade be added for the septic tank for this project. It is likely that this tank will be pumped much more often than a typical single-family house.

Risers are now shown on the septic tank detail.

14. Please revise the plan such that the force mains are not shown exiting the pump chamber at awkward angles. Please illustrate these lines as they will be installed and revise TDH calcs accordingly (if necessary).

The force mains have been reconfigured. The head calcs are updated in the revised report.

It is not understood why the plan shows cleanouts on fairly short forcemain runs. Please clarify or remove if these were added unintentionally.
 Cleanouts have been eliminated.

- 16. Due to the proximity of the pump chamber to the building, please revise the detail to specify the vent to be extended to the rooftop to avoid any potential odors. Revised
- 17. The pump station detail specifies a dose volume of 419 gallons (for primary system) but the tile field schedule appears to indicate a dose of 376 gallons (for primary) and 366 gallons (for reserve). Due to the forcemain length draining back into the chamber, the dose of 419 gallons is preferrable for the primary system. Please provide calculations and float settings for the reserve system dose and revise the tile field schedule to provide consistent information on the plan.

# The dose proposed is 415 gallons; 419 was a typo. The tile field schedule has been updated.

- 18. It is not understood why a "C" value of 130 is used in the Hazen-Williams equation. Ten States Standards specifies, "for other smooth pipe materials such as PVC, a higher "C" value, not to exceed 120, may be allowed for design." Please revise accordingly. The calculations were revised using 120.
- Please add a note to the pump station detail indicating that all electrical work shall conform to the National Electric Code (NEC), latest edition.
  Added
- 20. It is not understood why two different drop box details are provided on the plan (sheet C530). DC EHSD standard notes are also provided twice on the plans (sheets 1 and 3). Please revise for clarity. The plan appears to show drop boxes for both the primary and reserve systems, but the tile field schedule indicates drop boxes only for the primary system. Please revise for consistency

The duplicates have been eliminated and drop boxes are specified for both systems.

Please feel free to contact me if you require any further information on this matter.

Very truly yours, Amy Bombardieri

Cc: Town of Wappinger, file



#### www.hardestyhanover.com

#### **MEMORANDUM**

To: Bruce M. Flower, Chairman, and the Town of Wappinger Planning Board

Date: July 13, 2022

#### Subject: Cooper Road Conversion of Existing Residential Structure to Multi-family Dwelling- Amended Site Plan and Special Permit Tax Lot 6156-02-872849

As requested, we reviewed the application of John Goetz of the Mid-Hudson Development Corp. (the "Applicant" and "Owner") for Amended Site Plan Approval and Special Permit Approval.

## The Property

The subject property is a 3.62-acre lot located at 135 Cooper Road, is designated as tax lot 6156-02-872849 on the Town of Wappinger tax maps and is located within the R-20 Single Family Zoning District (the "Subject Property" or "Site").

## The Proposal

The Applicant is proposing to convert an existing 1920 residence of over 4,000 sf. to a multi-family dwelling with 4 units (2 bedrooms each). The conversion will also require upgrades to the existing driveway and sewage system as well as an expansion of the existing parking area from 3 spaces to 11 (the "Project" or "Proposed Action").

#### Submission

The Applicant has submitted for review an Application for Site Plan Approval form dated 6/20/22; an Application for Special Permit Approval form dated 6/20/22; A Full EAF form prepared by John Goetz dated 6/20/22; and a site plan (1 sheet) entitled "Conversion of Existing Residential Structure to Multifamily Dwelling" prepared by Day and Stokosa and dated 6/2/22.

We offer the following comments for your consideration.

## **REVIEW COMMENTS**

1. <u>SEQRA.</u> The Proposed Action is considered a Type II Action pursuant to SEQRA. This Application requires no additional SEQRA action.

2. <u>Environmental.</u> The EAF identifies the potential presence of the Indiana Bat and the Blanding's Turtle on the Site. The Applicant should reach out to the NYSDEC for additional information on potential impact mitigation. Correspondence with the DEC should be forwarded to the Town to be included in the record.

The plans do not show an area of disturbance associated with the parking area improvements or the proposed SDS system but there is assumed to be tree clearing involved with the proposed SDS system and a note should be added to the plans for calendar restrictions on tree clearing as mitigation to the Indiana Bat.

- 3. <u>Sight Distance.</u> We defer to the Town Superintendent of Highways and the Town Engineer with respect to sight distance measurements at the existing driveway.
- 4. <u>Lighting.</u> The existing lighting conditions are not shown on the plans. The Applicant should confirm what the existing lighting conditions are and if the lighting is proposed to change with the change in use. Sufficient lighting for safety purposes should be proposed.
- 5. <u>Driveway.</u> Aerial imagery shows a shared driveway on the Site that is not shown on the plans. The Applicant should address the condition of the existing driveway.
- 6. <u>Building Entrances.</u> The proposed building entrances should be shown on the plans to demonstrate compliance with §240-56.F of the zoning law.

We look forward to discussing our comments with you. If you have any questions with respect to the above, please let us know.

Sarah Brown, AICP Senior Planner

Malcolm Simpson Planner

cc: James Horan, Esq. Barbara Roberti Jon Bodendorf, PE Michael Sheehan John Goetz



3 Van Wyck Lane Wappingers Falls, New York 12590 Phone: 845-223-3202

# Engineer's Report for the redesign of the Water Supply & OWTS for Filed map 9132A - Lot #4

Location: Cooper Road Wappinger Falls, NY 12533 County of Dutchess

Date:September 8, 2022Revised:October 25, 2022

# 1.0 Purpose

This report shall outline the design of the proposed sewage disposal system (SDS) that will support four 2-bedroom (multi-family) dwelling units for a total of 8 bedrooms. This project consists of the conversion of an existing residence constructed in 1920. This is currently under review by the Town of Wappinger.

The 3.62 acre parcel is identified by tax ID # 135689-6156-02-872849.

# 2.0 Design Flows

According to the Dutchess County Design and Construction Standards Plan Submission Guide (September 1, 2016), the flow for a new residence is 110 gal/day/bedroom. Therefore, the total daily flow rate for the proposed multi-family residence is 880 gal/day. The entire interior is being gutted; the plumbing fixtures will meet low flow rating. A 2,500 gallon septic tank is proposed.

# 3.0 Onsite Wastewater Treatment System

# 3.1 SDS Design for Eight-Bedroom home (Max.)

The primary and replacement areas are 170 feet apart. The soil test results are slightly different. The primary system is based on an application rate of 0.45 gpd/sf and the reserve on a rate of 0.50 gpd/sf. The design calculations are as follows:

## Primary

Required Area = 880 GPD / 0.45 Application Rate = 1,956 sq.ft.

1,956 SF \* 75%<sup>\*</sup> = 1,467 SF 1,467 SF / 2' = 734 LF  $\rightarrow$  13 @ 60' ea = 768 LF

#### Reserve

Required Area = 880 GPD / 0.50 Application Rate = 1,760 sq.ft.

1,760 SF \* 75%<sup>\*</sup> = 1,320 SF 1,320 SF / 2' = 660 LF  $\rightarrow$  11 @ 60' ea = 660 LF

\*This office is proposing the use of infiltrators for the SDS to reduce the required lineal feet of the absorption field by 25%.

A 2,500 gallon pump chamber is proposed. The dose is set to 75% of the primary volume. The chamber will provide 2 days storage above the high level alarm.

# 4.0 Water Supply

The lot shall be a served by the existing well as shown on the attached plan.

# Appendix

#### DUTCHESS COUNTY DEPARTMENT OF HEALTH APPLICATION FOR APPROVAL OF PLANS FOR A WASTEWATER DISPOSAL SYSTEM

	Mid Hudson Development
1.	Name & address of applicant: P.O. Box 636
	Fishkill NY 12540
2.	Name of Project:Conversion to Multi-Family Dwelling revision to f.m. 9132a3. Location: T/V/C Town of Wappinger
4.	Project Engineer Day & Stokosa Engineering P.C. 5. Address <u>3 Van Wyck Lane</u>
	Wappinger Falls NY 12590
6.	Type of Project    X    Private/Residential    Camp    Commercial    Apartments      Institutional    Mobile Home Park    Office Building      Food Service    Other (specify)    Office Building
7.	Is this project subject to State Environmental Quality Review (SEQR)? Type status (check one) Type IX Type II Exempt Unlisted
8.	Is a Draft Environmental Impact Statement (DEIS) required? <u>No</u>
9.	Has a DEIS been completed and found acceptable by the Lead Agency? $\_N/A\_$
10.	Name of Lead Agency: <u>N/A</u>
11.	Is this project in an area under the control of local Planning, Zoning or other officials, ordinances? Yes
12.	If so, have plans been submitted to such authorities? Yes
13.	Has preliminary approval been granted by such authorities? <u>NO</u>
14.	Type of sewage disposal system discharge:    Surface waters    X    Ground waters
15.	If surface water discharge, what is the stream class designation? <u>N/A</u>
16.	Waters index number (surface)N/A
17.	Is project located near a public water supply system? <u>No</u>
18.	If yes, name of water supply: <u>N/A</u> Distance to water supply: <u>N/A</u>
19.	Is project site near a public sewage collection or disposal system? <u>No</u>
20.	Name of sewage system: N/A Distance to sewage system: No
21.	Were subsurface soil tests observed by a Health Department representative? <u>YES</u>
22,	Date observed: 23. Name of Health Inspector: Dan Keeler, P.E.
24. 25.	880 GPD Project design flow (gallons per day) Is an application for State Pollutant Discharge Elimination System (SPDES) required? <u>No</u>

26. Has application been submitted to local NYSDEC office?	No
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- 27. Is any portion of this project located within a designated wetland? No
- 28. Is a Wetland Permit required? <u>No</u> 29. Has application been made to local DEC office? <u>No</u>
- 30. Does project require a Stream Disturbance Permit? <u>No</u>
- Is project located within 1000 feet of existence of abandoned landfill, hazardous waste site, salt stockpile or any other potential known source of contamination? <u>No</u> Describe: <u>None known of</u>
- Does this project involve discharge or storage of industrial or hazardous wastes? <u>No</u> Describe: <u>None known of</u>
- 33. Is there a local master plan on file with the Town, Village, City? Yes
- 34. Are community water, sewer facilities planned to be developed within 15 years? No
- 35. Are any sewage disposal areas in excess of 10% slope? <u>No</u> 135689-6156-02-872849
- 36. Tax Map I.D. Number: \_\_\_\_\_- \_\_\_\_- \_\_\_\_-
- 37. Approved plans are to be returned to: \_\_\_\_ Applicant \_\_\_\_ X Engineer

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. 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 and official titles:	Mid Hudson Development
	P.O. Box 636
	Fishkill NY 12540
Mailing address:	Joe July

HD-1.doc 10-96

# DEEP TEST RESULTS

	DUTCHESS COUNTY DEPARTMENT OF BEHAVIORAL AND COMMUNITY HEALTH													
						Date: _	4/12/22							
	Name of TAX GRID #	propert	y: <u>Momin</u>	gside (	formerly)	(T)(V)(0	) Wappinger	_						
1	35	Le	8 9	61	56	02	8728	49						
	Owner of property: Mid-Hudson Holdings Engineer: Day Stokosa													
	Person directing test: <u>Any Bombardieri</u> DCHD Rep: D. Keller													
	HOLE #	LOT #	DEPTH	ROCK DEPTH	WATER DEPTH	MOTTLING DEPTH	SOIL DESCRIPTION							
	1		6'		3.5'		day loam							
							l							
	2		6	_	3.5'		day loam							
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General remarks (terrain; weather; springs, streams, etc.)

#### DUTCHESS COUNTY DEPARTMENT OF HEALTH PERCOLATION TEST DATA

**MIDHUDSON** 

Name TAX GI	:DE\	/ELOPM	ENT CORP	(J)(V)	(C) (Ja	milian	Da	sEF nte:	TEMBE	ER 13, 202
		02-8728	49							
Ву:		<b>J I UKU</b> NEERING P.C		nspector						
	Test	Test	l		1					
Lot	Hole	Hole					TEST	RUNS		
No.	No.	Depth	Soil Type	Soaked						
					*	1	2	3	4	5
				4/11/22	Finish	9:41	10:16	10:53	11:31	
		24"	Silt Loam		Start	9:00	9:40	10:17	10:55	
					Time	_ 34	36	36	36	
1	2	20"	2 -	4/11/22	Finish	9:41	10:27		12:06	
		<u>3</u> 0"	Silt Loam		Start	9:03	9:42	10:28	11:20	
	-				Time	38	45	46	46	
	3	0.41	0.14		Finish	10:41	1	12:08		
	3	24"	Silt Loam	6/27/22	Start	10:00	10:43		12:05	
					Time	41	42	43	43	
	4	0.0"	0.11		Finish	10:39			12:48	
	-	30"	Silt Loam	6/27/22	Start	10:02				•
				0/21/22	Time	37	42	43	43	43
					Finish					
					Start					
					Time					
					Finish					
					Start					
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1	Ī			-	Finish		l			
					Start					
					Time					

I, <u>ISSNEM</u>, the undersigned, certify that these percolation tests were done by myself or under my direction according to the standard procedure. The data and rescue presented are true and correct. Dated: September 13, 2022 Signature:

Signature: \_\_\_\_\_ License No. (P.E.)(L.S.)

#### <u>Pump Design:</u> Hazen-Williams

Force Main Input								
С	120	100-120						
L	136	Ft						
d	1.5	In						
Static Head (Hs) ft 3.4								

Fric	tion Head (l	Hf)	Total Dynamic Head (TDH)				
10 Gpm	1.991	ft	10 Gpm	5.391	ft		
20 Gpm	7.176	ft	20 Gpm	10.576	ft		
30 Gpm	15.193	ft	30 Gpm	18.593	ft		
40 Gpm	25.870	ft	40 Gpm	29.270	ft		
50 Gpm	39.091	ft	50 Gpm	42.491	ft		
60 Gpm	54.772	ft	60 Gpm	58.172	ft		

Hf =  $\frac{L(10.44) (GPM)^{1.85}}{C^{1.85}(d \text{ inches})^{4.8655}}$ 

forcemain length = 114' nominal length + 2-90 degree bends @ 4.3' per bend + 11' per check valve + 2.7' long sweep ell = 136'





B3885 R3



# WE Series Model 3885

SUBMERSIBLE EFFLUENT PUMPS





## Wastewater

#### FEATURES

**Impeller:** Cast iron, semi-open, non-clog with pump-out vanes for mechanical seal protection. Balanced for smooth operation. Silicon bronze impeller available as an option.

Casing: Cast iron volute type for maximum efficiency. 2" NPT discharge.

**Mechanical Seal:** Silicon Carbide vs. Silicon Carbide sealing faces. Stainless steel metal parts, BUNA-N elastomers.

**Shaft:** Corrosion-resistant, stainless steel. Threaded design. Locknut on all models to guard against component damage on accidental reverse rotation.

Fasteners: 300 series stainless steel.

Capable of running dry without damage to components.

Designed for continuous operation when fully submerged.

EXTENDED WARRANTY AVAILABLE FOR RESIDENTIAL APPLICATIONS.

#### **APPLICATIONS**

Specifically designed for the following uses:

• Homes, Farms, Trailer Courts, Motels, Schools, Hospitals, Industry, Effluent Systems

#### **SPECIFICATIONS**

#### Pump

- Solids handling capabilities: ¾" maximum
- Discharge size: 2" NPT
- Capacities: up to 140 GPM
- Total heads: up to 128 feet TDH
- Temperature: 104°F (40°C) continuous, 140°F (60°C) intermittent.
- See order numbers on reverse side for specific HP, voltage, phase and RPM's available.

#### MOTORS

- Fully submerged in high-grade turbine oil for lubrication and efficient heat transfer.
- Class B insulation on  $\frac{1}{3}$  1½ HP models.
- Class F insulation on 2 HP models.

#### Single phase (60 Hz):

- Capacitor start motors for maximum starting torque.
- Built-in overload with automatic reset.

- SJTOW or STOW severe duty oil and water resistant power cords.
- $\frac{1}{3}$  1 HP models have NEMA three prong grounding plugs.
- 1½ HP and larger units have bare lead cord ends.

#### Three phase (60 Hz):

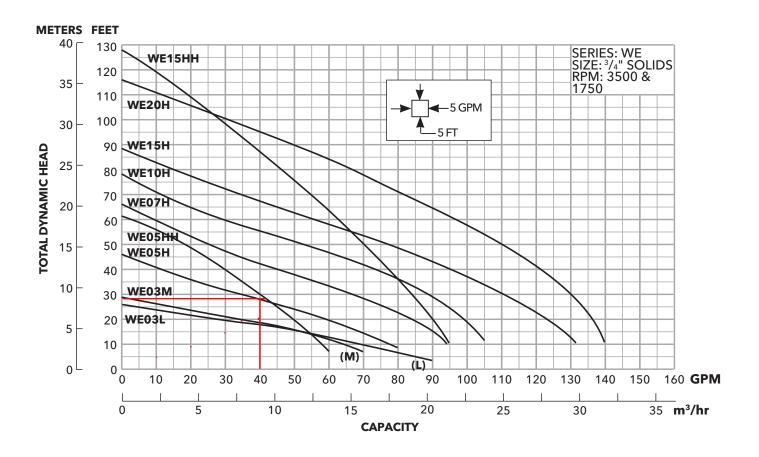
- Class 10 overload protection must be provided in separately ordered starter unit.
- STOW power cords all have bare lead cord ends.
- Designed for Continuous Operation: Pump ratings are within the motor manufacturer's recommended working limits, can be operated continuously without damage when fully submerged.
- Bearings: Upper and lower heavy duty ball bearing construction.
- Power Cable: Severe duty rated, oil and water resistant. Epoxy seal on motor end provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking. Standard cord is 20'. Optional lengths are available.
- O-ring: Assures positive sealing against contaminants and oil leakage.

#### AGENCY LISTINGS



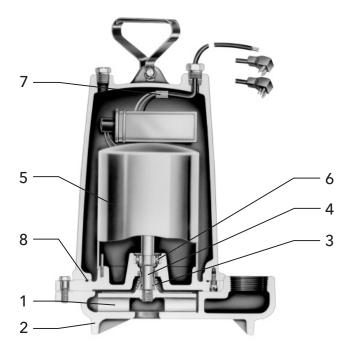
Tested to UL 778 and CSA 22.2 108 Standards By Canadian Standards Association File #LR38549

# Wastewater



#### **COMPONENTS**

Item No.	Description			
1	Impeller			
2	Casing			
3	Mechanical Seal			
4	Motor Shaft			
5	Motor			
6	Ball Bearings			
7	Power Cable			
8	Casing O-Ring			



# Wastewater

#### MODELS

Order		_	_		Impeller	Maximum	Locked	KVA	Full Load	Res	sistance	Power	Weight	
Number	HP	Phase	Volts	RPM	Diameter (in.)	Amps	Rotor Amps	Code	Efficiency %	Start	Line-Line	Cable Size	(lbs.)	
WE0311L			115			10.7	30.0	М	54	11.9	1.7			
WE0318L			208			6.8	19.5	К	51	9.1	4.2			
WE0312L	0.33		230	1750	5.38	4.9	14.1	L	53	14.5	8.0	16/3	56	
WE0311M	0.55		115	1750		10.7	30.0	М	54	11.9	1.7			
WE0318M		1	208			6.8	19.5	K	51	9.1	4.2			
WE0312M			230			4.9	14.1	L	53	14.5	8.0			
WE0511H			115			14.5	46.0	М	54	7.5	1.0	14/3		
WE0518H			208			<mark>8.1</mark>	<mark>31.0</mark>	K	<mark>68</mark>	<mark>9.7</mark>	2.4	16/3		
WE0512H			230			7.3	34.5	М	53	9.6	4.0	10/0		
WE0538H			200		3.56	4.9	22.6	R	68	NA	3.8			
WE0532H		3	230			3.3	18.8	R	70	NA	5.8	14/4		
WE0534H		0	460			1.7	9.4	R	70	NA	23.2			
WE0537H	0.5		575			1.4	7.5	R	62	NA	35.3		60	
WE0511HH	0.5		115			14.5	46.0	М	54	7.5	1.0	14/3		
WE0518HH		1	208			8.1	31.0	К	68	9.7	2.4	16/3		
WE0512HH			230			7.3	34.5	М	53	9.6	4.0	10/5		
WE0538HH			200		3.88	4.9	22.6	R	68	NA	3.8			
WE0532HH		3	230			3.6	18.8	R	70	NA	5.8	1 / / /		
WE0534HH		3	460	]		1.8	9.4	R	70	NA	23.2	14/4		
WE0537HH	1		575			1.5	7.5	R	62	NA	35.3			
WE0718H		1	208			11.0	31.0	К	68	9.7	2.4	14/3	-	
WE0712H		1	230			10.0	27.5	J	65	12.2	2.7	14/3		
WE0738H			200		4.07	6.2	20.6	L	64	NA	5.7		1	
WE0732H	0.75	2	230		4.06	5.4	15.7	К	68	NA	8.6	14/4		
WE0734H	1	3 460	3	3 460		2.7	7.9	К	68	NA	34.2	14/4	70	
WE0737H	1		575	]		2.2	9.9	L	78	NA	26.5			
WE1018H				1 208			14.0	59.0	K	68	9.3	1.1	1.1/2	70
WE1012H		1	230	3450		12.5	36.2	J	69	10.3	2.1	14/3	ľ	
WE1038H		200			8.1	37.6	М	77	NA	2.7				
WE1032H	1		230		4.44	7.0	24.1	L	79	NA	4.1			
WE1034H		3	460			3.5	12.1	L	79	NA	16.2	14/4		
WE1037H			575	1		2.8	9.9	L	78	NA	26.5			
WE1518H			208	1		17.5	59.0	К	68	9.3	1.1			
WE1512H		1	230			15.7	50.0	н	68	11.3	1.6	14/3		
WE1538H			200			10.6	40.6	К	79	NA	1.9			
WE1532H			230		4.56	9.2	31.7	К	78	NA	2.9			
WE1534H		3	460			4.6	15.9	K	78	NA	11.4	14/4		
WE1537H			575			3.7	13.1	K	75	NA	16.9			
WE1518HH	1.5		208			17.5	59.0	К	68	9.3	1.1		80	
WE1512HH		1	230			15.7	50.0	Н	68	11.3	1.6	14/3		
WE1538HH			200			10.6	40.6	K	79	NA	1.9			
WE1532HH			230		5.50	9.2	31.7	К	78	NA	2.9			
WE1534HH		3	460			4.6	15.9	K	78	NA	11.4	14/4		
WE1537HH			575			3.7	13.1	K	75	NA	16.9	1		
WE2012H		1	230			18.0	49.6	F	78	3.2	1.2	14/3		
WE2038H			200			12.0	42.4	K	78	NA	1.2			
WE2032H	2		230		5.38	12.0	42.4	K	78	NA	1.7	7 14/4	83	
WE2034H	-	3	460		0.00	5.8	21.2	K	78	NA	6.6			
WE2037H			575	-		4.7	16.3	L	78	NA	10.5	1		

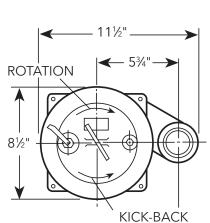
# Wastewater

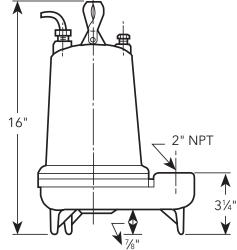
0	rder No.	WE-03L	WE-03M	WE-05H	WE-07H	WE-10H	WE-15H	WE05HH	WE15HH	WE-20H
	НР	1/3	1/3	1/2	3/4	1	1½	1/2	1½	2
	RPM	1750	1750	3500	3500	3500	3500	3500	3500	3500
	5	86	-	-	-	-	-	-	-	-
	10	70	63	78	94	-	-	58	95	-
	15	52	52	70	90	103	128	53	93	138
	20	27	35	60	83	98	123	49	90	136
	25	5	15	48	76	94	117	45	87	133
ter	30	-	-	35	67	88	110	40	83	130
Total Head Feet of Water	35	-	-	22	57	82	103	35	80	126
eet o	40	-	-	-	45	74	95	30	77	121
ad F	45	-	-	-	35	64	86	25	74	116
al He	50	-	-	-	25	53	77	-	70	110
Tot	55	-	-	-	-	40	67	-	66	103
	60	-	-	-	-	30	56	-	63	96
	65	-	-	-	-	20	45	-	58	89
	70	-	-	-	-	-	35	-	55	81
	75	-	-	-	-	-	25	-	51	74
	80	-	-	-	-	-	-	-	47	66
	90	-	-	-	-	-	-	-	37	49
	100	-	-	-	-	-	-	-	28	30

#### PERFORMANCE RATINGS (gallons per minute)

#### DIMENSIONS

(All dimensions are in inches. Do not use for construction purposes.)





#### **STANDARD PANEL OPTIONS**

mp Order Number	K Se	eries	Boulay	Series
	Simplex	Duplex	Simplex	Duplex
WE0311L	KS19020WF	KD19020WF	S10020	D10020
WE0318L	KS19020WF	KD19020WF	S10020	D10020
WE0312L	KS19020WF	KD19020WF	S10020	D10020
WE0311M	KS19020WF	KD19020WF	S10020	D10020
WE0318M	KS19020WF	KD19020WF	S10020	D10020
WE0312M	KS19020WF	KD19020WF	S10020	D10020
WE0511H	KS19020WF	KD19020WF	S10020	D10020
WE0518H	KS19020WF	KD19020WF	S10020	D10020
WE0512H	KS19020WF	KD19020WF	S10020	D10020
WE0538H	KS31255WF	KD31255WF	S34063	D34063
WE0532H	KS31255WF	KD31255WF	S32540	D32540
WE0534H	KS31255WF	KD31255WF	S31625	D31625
WE0537H	N/A	N/A	S31625	D31625
WE0511HH	KS19020WF	KD19020WF	S10020	D10020
WE0518HH	KS19020WF	KD19020WF	S10020	D10020
WE0512HH	KS19020WF	KD19020WF	S10020	D10020
WE0538HH	KS31255WF	KD31255WF	S34063	D34063
WE0532HH	KS31255WF	KD31255WF	S32540	D32540
WE0534HH	KS31255WF	KD31255WF	S31625	D31625
WE0537HH	N/A	N/A	S31625	D31625
WE0718H	KS19020WF	KD19020WF	S10020	D10020
WE0712H	KS19020WF	KD19020WF	S10020	D10020
WE0738H	KS34518WF	KD34518WF	S36310	D36310
WE0732H	KS34518WF	KD34518WF	S34063	D34063
WE0734H	KS31255WF	KD31255WF	S32540	D32540
WE0737H	N/A	N/A	S31625	D31625
WE1018H	KS19020WF	KD19020WF	S10020	D10020
WE1012H	KS19020WF	KD19020WF	S10020	D10020
WE1038H	KS34518WF	KD34518WF	S36310	D36310
WE1032H	KS34518WF	KD34518WF	S36310	D36310
WE1034H	KS34518WF	KD34518WF	S32540	D32540
WE1037H	N/A	N/A	S32540	D32540
WE1518H	KS19020WF	KD19020WF	S10020	D10020
WE1512H	KS19020WF	KD19020WF	S10020	D10020
WE1538H	KS34518WF	KD34518WF	S31016	D31016
WE1532H	KS34518WF	KD34518WF	S36310	D36310
WE1534H	KS34518WF	KD34518WF	S34063	D34063
WE1537H	N/A	N/A	S32540	D32540
WE1518HH	KS19020WF	KD19020WF	S10020	D10020
WE1512HH	KS19020WF	KD19020WF	S10020	D10020
WE1538HH	KS34518WF	KD34518WF	S31016	D31016
WE1532HH	KS34518WF	KD34518WF	S36310	D36310
WE1534HH	KS34518WF	KD34518WF	S34063	D34063
WE1537HH	N/A	N/A	S32540	D32540
WE2012H	KS19020WF	KD19020WF	S10020	D10020
WE2038H	KS34518WF	KD34518WF	S31016	D31016
WE2032H	K\$34518WF	KD34518WF	S31016	D31016
WE2034H	KS34518WF	KD34518WF	S34063	D34063
WE2037H	N/A	N/A	S34063	D34063

**Note:** Boulay Series part numbers have additional available features, see page 7 for more information.

Note: K Series panel part numbers include floats, to order without float switches, remove the 'WF' suffix. Boulay Series panels do not include float switches.

## Wastewater



# 

#### **K-SERIES**

- NEMA 4X dead front outdoor rated enclosure
- Red LED alarm beacon
- HOA selector switch
- Field wiring terminal block
- Single phase models handle 120, 208 and 230V service
- Three phase models handle 200, 230 and 460V service
- Requires separate control/alarm power feed
- See brochure "BCPKSDPANELS" for additional information

#### **BOULAY SERIES**

- NEMA 4X outdoor rated enclosure
- Red alarm beacon
- HOA selector switch
- Through door pump run light(s)
- Through door alarm test and horn silence button
- Single phase models handle 120, 208 and 230V service
- Three phase models handle 200, 230, 460 and 575V service
- Accepts single or dual power feed
- See brochure "BCP3 R11" for additional information on simplex models
- See brochure "BCP4 R14" for additional information on duplex models

# Xylem |'zīləm|

The tissue in plants that brings water upward from the roots;
 a leading global water technology company.

We're a global team unified in a common purpose: creating advanced technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions.

For more information on how Xylem can help you, go to www.xyleminc.com



Xylem Inc. 2881 East Bayard Street Ext., Suite A Seneca Falls, NY 13148 Phone: (866) 325-4210 Fax: (888) 322-5877 www.xylem.com/goulds

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# AREA MAP

THE DESIGN, CONSTRUCTION AND INSTALLATION SHALL BE IN ACCORDANCE WITH THIS PLAN AND GENERALLY ACCEPTED STANDARDS IN EFFECT AT THE TIME OF CONSTRUCTION WHICH INCLUDE:

"APPENDIX 75-A, WASTE TREATMENT - INDIVIDUAL HOUSEHOLD SYSTEMS, NEW YORK STATE

SANITARY CODE." "NEW YORK STATE DESIGN STANDARDS FOR INTERMEDIATE SIZED WASTEWATER TREATMENT

SYSTEMS", NYSDEC "RESIDENTIAL ONSITE WASTEWATER TREATMENT SYSTEMS, DESIGN HANDBOOK", NEW YORK STATE DEPARTMENT OF HEALTH.

"PLANNING THE SUBDIVISION AS PART OF THE TOTAL ENVIRONMENT", NEW YORK STATE DEPARTMENT OF HEALTH.

"NEW YORK STATE DEPARTMENT OF HEALTH AND DUTCHESS COUNTY ENVIRONMENTAL HEALTH SERVICES DIVISION POLICIES, PROCEDURES AND STANDARDS." "DUTCHESS COUNTY AND NEW YORK STATE SANITARY CODES."

"DUTCHESS COUNTY ENVIRONMENTAL HEALTH SERVICES DIVISION CERTIFICATE OF APPROVAL LETTER."

THIS PLAN IS APPROVED AS MEETING THE APPROPRIATE AND APPLIED TECHNICAL STANDARDS, GUIDELINES, POLICIES AND PROCEDURES FOR ARRANGEMENT OF WATER SUPPLY AND SEWAGE DISPOSAL AND TREATMENT FACILITIES; AND, AS A CONDITION OF THIS APPROVAL, A CONSTRUCTION INSPECTION BY A REPRESENTATIVE OF THE DC EHSD SHALL BE DONE TO DETERMINE THAT CONSTRUCTION AT THE TIME OF INSPECTION WAS COMPLETED IN GENERAL CONFORMANCE WITH THE APPROVED PLANS AND ANY AMENDMENT THEREOF.

APPROVAL OF ANY PLAN(S) OR AMENDMENT THERETO SHALL BE VALID FOR A PERIOD OF 5 YEARS FROM THE DATE OF APPROVAL. FOLLOWING THE EXPIRATION OF SAID APPROVAL. THE PLAN(S) SHALL BE RE-SUBMITTED TO THE COMMISSIONER OF HEALTH FOR CONSIDERATION FOR RE-APPROVAL. RE-SUBMISSION OR REVISED SUBMISSION OF PLANS AND/OR ASSOCIATED DOCUMENTS SHALL BE SUBJECT TO COMPLIANCE WITH THE TECHNICAL STANDARDS, GUIDELINES. POLICIES AND PROCEDURES IN EFFECT AT THE TIME OF THE RE-SUBMISSION.

THE DC EHSD SHALL BE CONTACTED PRIOR TO THE COMMENCEMENT OF THE HOME CONSTRUCTION AND/OR ISSUANCE OF A BUILDING PERMIT FOR A PRE-CONSTRUCTION INSPECTION TO ENSURE THAT THE ARRANGEMENTS FOR WATER SUPPLY AND SEWAGE DISPOSAL ARE COMMENCED IN ACCORDANCE WITH THE APPROVED PLANS AND AMENDMENTS THERETO AND GENERALLY ACCEPTED STANDARDS.

ALL WELLS AND ONSITE WASTEWATER TREATMENT SYSTEMS, EXISTING OR APPROVED. LOCATED WITHIN 300 FEET OF THE PROPOSED WELL ONSITE WASTEWATER TREATMENT SYSTEM ARE SHOWN ON THIS PLAN ALONG WITH ANY OTHER ENVIRONMENTAL HAZARDS IN THE AREA THAT MAY AFFECT THE DESIGN AND FUNCTIONAL ABILITY OF THE ONSITE WASTEWATER TREATMENT SYSTEM AND WELL.

IF THE TANK IS DELIVERED TO THE SITE IN SECTIONS, THEN IT SHALL BE DEMONSTRATED BY THE CONTRACTOR TO THE DC EHSD FIELD INSPECTOR AND/OR DESIGN PROFESSIONAL THAT THE TANK IS SEALED, WATERTIGHT AND ACCEPTABLE FOR USE. THIS SHALL REQUIRE, AT A MINIMUM, THE FILLING OF THE TANK WITH WATER TO OBSERVE IF IT IS IN FACT SEALED, WATERTIGHT AND ACCEPTABLE FOR USE. THE TANK MUST ALSO MEET ANY LOCAL TESTING REQUIREMENTS, INCLUDING POSSIBLE ELECTRICAL AND SAFETY STANDARDS.

NO CELLAR, FOOTING, FLOOR, GARAGE, COOLER OR ROOF DRAINS SHALL BE DISCHARGED INTO THE ONSITE WASTEWATER TREATMENT SYSTEM OR WITHIN 50 FEET OF ANY WELL.

ALL BUILDINGS SHALL BE CONSTRUCTED AT AN ELEVATION HIGH ENOUGH TO ENSURE GRAVITY FLOW TO THE ONSITE WASTEWATER TREATMENT SYSTEM.

THERE SHALL BE NO VEHICULAR TRAFFIC OVER THE ONSITE WASTEWATER TREATMENT SYSTEM. PRIOR TO CONSTRUCTION, THE AREA OF THE SYSTEM SHALL BE STAKED OUT AND FENCED OFF.

ONSITE WASTEWATER TREATMENT SYSTEMS SHALL NOT BE INSTALLED IN WET OR FROZEN SOIL.

ALL REQUIRED EROSION & SEDIMENT CONTROL AND STORMWATER POLLUTION PREVENTION WATER QUALITY & QUANTITY CONTROL STRUCTURES, PERMANENT AND TEMPORARY, ARE SHOWN ON THE PLANS.

ALL PROPOSED WELLS AND SERVICE LINES ON THIS PLAN ARE ACCESSIBLE FOR INSTALLATION AND PLACEMENT.

ADDITIONAL NOTES FOR FILL SECTIONS:

SEPTIC FILL SPECIFICATION: SAND AND GRAVEL FILL, WITH A STABILIZED PERCOLATION RATE WHICH IS LESS THAN OR EQUIVALENT TO THE PERCOLATION RATE OF THE VIRGIN SOIL, AND NO MORE THAN 15 MINUTES PER INCH SHALL BE USED.

A NEW YORK STATE REGISTERED DESIGN PROFESSIONAL SHALL CERTIFY IN WRITING THAT THE FILL MATERIAL IS IN THE PROPER LOCATION, OF THE PROPER QUANTITY AND DIMENSIONS, AND OF PROPER QUALITY. PROPER QUALITY MUST BE DEMONSTRATED BY STABILIZED PERCOLATION TESTS, THE RESULTS OF WHICH SHALL BE SUBMITTED WITH THE ENGINEER'S CERTIFICATION.

PRIOR TO THE PLACEMENT OF THE FILL, THE AREA OF THE OWTS SHALL BE CLEARED OF DEBRIS, AND ALL BRUSH, TREES, OR OTHER VEGETATION CUT TO THE LEVEL OF THE VIRGIN GROUND. NO TOPSOIL SHALL BE REMOVED UNLESS SPECIFICALLY INDICATED ON THE PLANS.

## SITE SPECIFIC NOTES:

1. A PRE-CONSTRUCTION MEETING MUST BE SCHEDULED AT THE SITE WITH THE OWNER OR DEVELOPER AND A REPRESENTATIVE FROM THE DUTCHESS COUNTY DEPARTMENT OF HEALTH PRIOR TO THE INSTALLATION OF THE SEWAGE DISPOSAL SYSTEM TO DISCUSS APPROVED ARRANGEMENTS FOR WATER SUPPLY AND SEWAGE DISPOSAL.

2. IF A SEPTIC TANK IS DELIVERED TO THE SITE IN SECTIONS, IT SHALL BE DEMONSTRATED BY THE CONTRACTOR TO THE D.C.H.D. FIELD INSPECTOR AND/OR CERTIFYING ENGINEER THAT THE TANK IS SEALED, WATERTIGHT AND ACCEPTABLE FOR USE. THIS SHALL REQUIRE, AT A MINIMUM, THE FILLING OF THE TANK WITH WATER TO OBSERVE IF IT IS SEALED AND WATERTIGHT.

3. BOUNDARY AND TOPO INFORMATION TAKEN FROM A MAP PREPARED BY ROBERT. OSWALD, L.S. LAND SURVEYORS P.C. DATED MARCH 3, 2021. 4. ALL WELLS AND OWTS LOCATED WITHIN 300' HAVE BEEN IDENTIFIED.

5. THE SEWAGE DISPOSAL AREA AND PROPERTY LINE SHALL BE STAKED OUT BY A NYS LICENSED LAND SURVEYOR PRIOR TO CONSTRUCTION. 6. ALL INTERIOR PLUMBING FIXTURES SHALL BE REPLACED WITH MODERN DAY FIXTURES.

TREE REMOVAL MUST OCCUR BETWEEN OCTOBER 15 AND MARCH 31 TO PROTECT INDIANA BATS.

240-56. CONVERSION OF CERTAIN EXISTING LARGE RESIDENTIAL STRUCTURES TO A

- MORE THAN 3,000 SQUARE FEET OF GROSS FLOOR AREA. THERE SHALL BE NO INCREASE IN THE NUMBER OF PERMITTED DWELLING UNITS
- EACH DWELLING UNIT SHALL HAVE A SEPARATE ENTRANCE. NOT MORE THAN TWO SEPARATE ENTRANCES SHALL BE PERMITTED ON THE FRONT FACADE. COMMON
- PERMITTED SHALL BE REQUIRED PRIOR TO THE ISSUANCE OF ANY PERMIT. PARKING SHALL BE PROVIDED AS SET FORTH IN ARTICLE X AND AS REQUIRED BY THE
- THE EXISTING STRUCTURE SHALL COMPLY WITH ALL OTHER REQUIREMENTS OF THIS CHAPTER.

PAUL H. DICKERMAN 131 COOPER RD

DANIEL J. SILVESTRI, JR

FOR PROPERTY: 845873

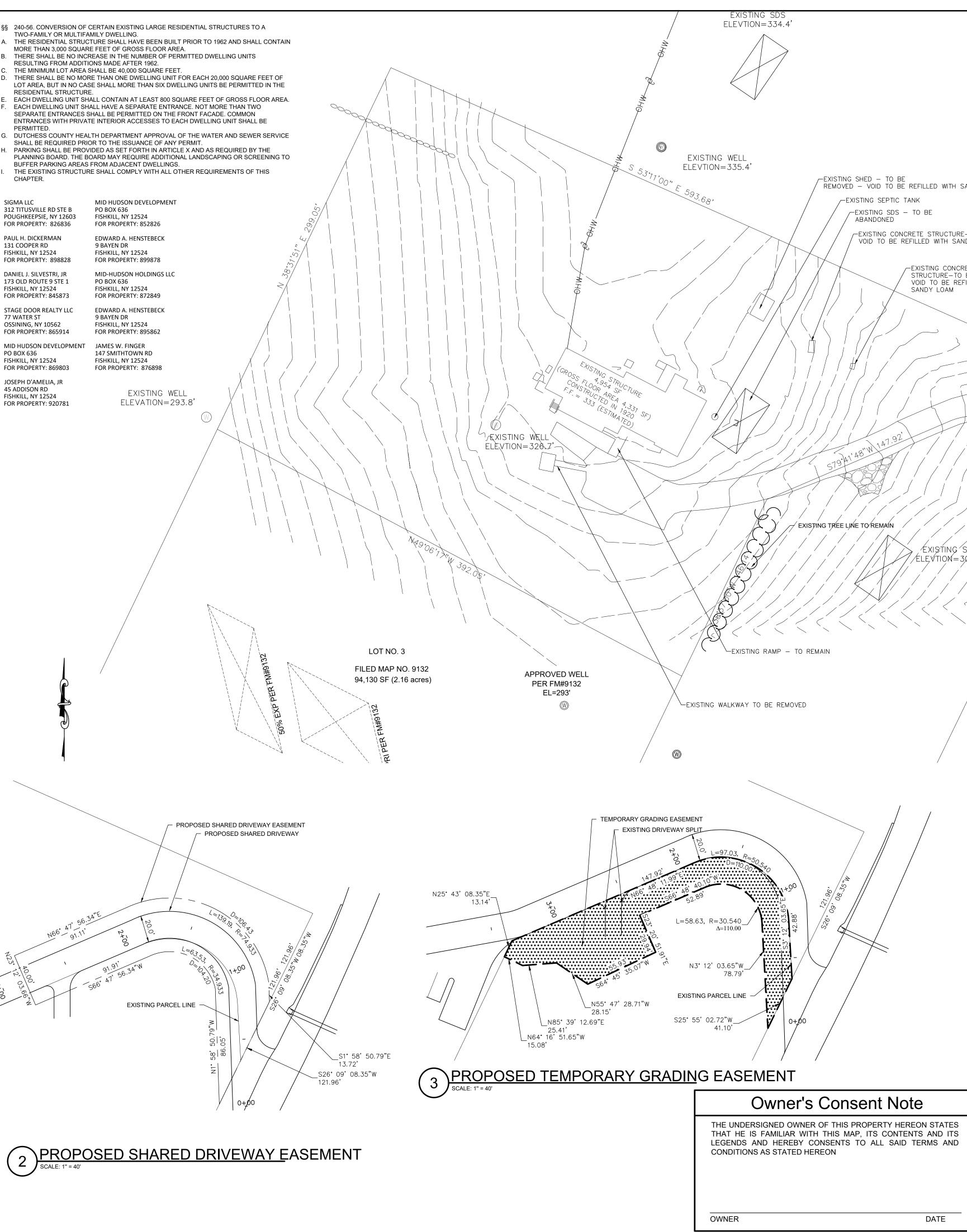
77 WATER ST OSSINING, NY 10562

PO BOX 636

FOR PROPERTY: 869803 JOSEPH D'AMELIA, JR

SCALE: 1" = 200'

EXISTING WELL



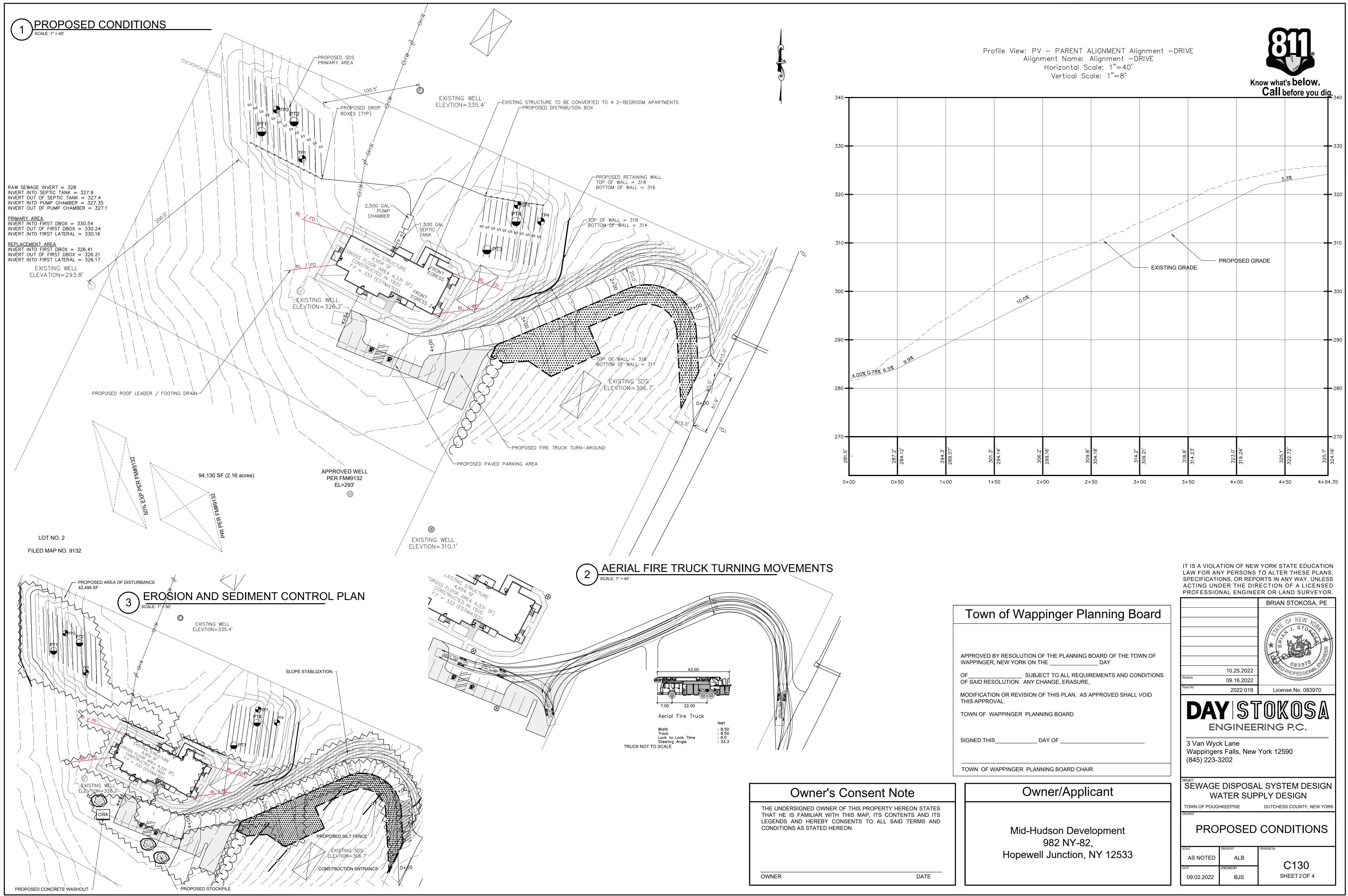


# Know what's below. Call before you dig.

SHEET1OF4

09.02.2022

		CONVERSION OF EXISTING R STRUCTURE TO A MULTIFAMI §240-56 OF THE TOWN OF WA	LY DWELLIN		Required / Allowed	Existing / Proposed
SANDY	LOAM	Minimum Lot Area (Squ per R-20 District Minimum Lot Frontage			40,000	157,687 SF (3.62 acres)
		Minimum Lot Width (fee			100	121.96 299.05
		Minimum Front Yard (fe	eet) per R	-20 district	35	74.30
E-TO E NDY LC	BE REMOVED DAM	Minimum Side Yard (fe	et) per R-2	20 district	20	120.10
		Minimum Rear Yard (fe	et) per R-	20 district	40	200.20
RETE ) be re	EMOVED	Maximum Building Cov	• • •		15 35' or 2.5	3.1
FILLED	EASEMENTS TO BE CREATED AS	Maximum Height per R			Stories	1 Story
	PART OF THIS PROPOSAL	Maximum floor area rat	tio per R-2	20 district	0.15	0.03
		Maximum dwelling unit	s		6	4
·		Minimum dwelling area			800 SF	930 SF
		Parking spaces - 2 per	dwelling			11 (2 ADA - 9 STANDARD)
		Zone Classific		R-20	8	IT (2 ADA - 9 STANDARD)
SDS 306.7	147.888 147.888 147.888 147.888 147.	Proposed Use Tax Map Parc Topographic D Total Existing Water Supply: Sewage Dispo	el No )atum Acreage:	Multi-family Resid 135689-6156-02- USGS 3.62 AC Individual Well Individual Subsut	-872849 - Lot #4 - Fl	LED MAP 9132
				RECO	MMENDED FOR AF	PPROVAL
/					DC EHSD APPRO	VED
			DATE:			
			PROJE	ECT:		
/ (	1) EXISTING CONDITIO	<u>NS</u>				
	SCALE. T = 40					
					ISING PUBLIC HEA	
				LAW FOF SPECIFIC ACTING	R ANY PERSONS ATIONS, OR REP UNDER THE DIF	V YORK STATE EDUCATION TO ALTER THESE PLANS, ORTS IN ANY WAY, UNLESS RECTION OF A LICENSED ER OR LAND SURVEYOR.
				FROFES	SIONAL ENGINE	BRIAN STOKOSA, PE
	Town of Wappinger F	Planning Bo	bard			OF NEW YORK
	APPROVED BY RESOLUTION OF THE PLANNIN		VN OF			
					10.25.2022	OED PROFESSIONAL
	OF SUBJECT TO ALL REC OF SAID RESOLUTION. ANY CHANGE, ERASUR	RE,	DITIONS		09.16.2022	
	MODIFICATION OR REVISION OF THIS PLAN, A	S APPROVED SHALL \	/OID	Project No.	2022:019	License No. 083970
	THIS APPROVAL.				<b>V</b> I©٦	TOKOSA
	TOWN OF WAPPINGER PLANNING BOARD					RING P.C.
	SIGNED THIS DAY OF			31/001	Vyck Lane	
					igers Falls, New	York 12590
	TOWN OF WAPPINGER PLANNING BOARD CH	IAIR		(845) 22	23-3202	
		licont		PROJECT	GE DISPOSA	L SYSTEM DESIGN
	Owner/App	mcant			WATER SUP	PLY DESIGN
				TOWN OF P	OUGHKEEPSIE	DUTCHESS COUNTY, NEW YORK
	Mid-Hudson Dev	•			TITLE	SHEET
	982 NY-8	-		SCALE	DRAWN BY	DRAWING No.
	Hopewell Junction	, NY 12533		AS NOT		
-					CHECKED BY	G001 SHEET 1 OF 4



# WALL MOUNTED LIGHT (TYP) -

0.0 0.0 0.0 0.2 0.4 0.

0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

0.0 0.1 0.1 0.1 0.1 0.2 0.1 0.1 0.2 0.6 2.9

0.0 0.0 0.0 0.1 0.1 0.1 0.1 0.3 1.4 2.3 1.2 0.

0.0 0.0 0.0 0.0 0.0 0.1 0.2 0.5 0.5 0.3 0.1

0.0 0.0 0.0 0.0 0.1 0.2 0.1 0.1 0.1 0.

0.0 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0

0.0 0.0 0.0 0.0 0.0 0.0

0.0 0.0 0.0 0.0

2.0 0.7 0.3 0.2 0.1

1.4 1.1 0.5 0.2 0.1 0.1 0.1 0

1.0 0.7 0.3 0.2 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.



# Catalog Number

SCALE: 1" = 40

# WFCL2

Utility Washington Series Luminaire Full Cutoff LED2





Mechanical • Heavy grade A360 cast aluminum (<1% copper)

<u>PHOTOMETRIC</u> PLAN

- Tool-less access with a spring-loaded latch • Hidden hinge door allowing the door to swing open and
- remain open
- Optional internal or external NEMA twist lock photocontrol receptacle. Housing contains a tempered glass window to allow light to reach the cell for internal versions.
- Mount to slip-fitter that will accept 3" high by 2-7/8" to
- 3-1/8" 0.D. pole tenon Decorative top cover contains stainless steel hinge which
   Long Life Photocontrols (PCLL) - 20 Year Life
- secures entry the LED optical chamber Polyester power coat paint to ensure maximum durability
- Finish meets 5,000-hour salt spray testing
- Holophane and RAL Classic finishes.

## Electrical

- All surge protection meets ANSI/IEEE C62.41.2 10kV/10kA.
- Standard SPD meets 10kV/5kA per ANSI C136.2-2015. • 20KV Option meets 20kV/10kA per ANSI C136.2-2015.
- Quick disconnect connectors for ease of installation and maintenance.
- Three pole terminal block is standard, with optional prewired leads for ease of installation
- LLED drivers meet maximum total harmonic distortion (THD) of 20%, >0.90 Power Factor and are ROHS compliant. Minimum operating temperature is -40C. Electronic driver has an estimated minimum life of 100,000 hours at 25°C.

# Optical

- IP65 rated optical compartment
- LED circuit board located in the top cover Asymmetric or Symmetric full cutoff distributions
- 2700K, 3000K, 4000K, and 5000K CCT
- 70CRI Standard

## Control Options

- Field Adjustable Output (AO) module Onboard device that adjusts the light output and input wattage to meet site specific requirements. The AO module is preset at the factory to position number 8 (see chart).
- Wireless remote control for monitoring performance and/or maintenance of the system – ROAM • Factory Programmed Driver (FPDxx) - Customize lumen

## output prior to manufacturing and still enables control leads so other options can also be used

- 3 and 7 pin photocontrol receptacles internally (P3, P7) or
- externally (P3E, P7E) mounted • Part-night dimming (PND) enables luminaire to monitor
- and adjust 50% lumens based on season and geographic location, 8-day rolling average

# Testing/Compliance

- UL 1598 Wet Locations Safety Listing • Suitable for ambient temperatures -40°C to 40°C
- DesignLights Consortium<sup>®</sup> (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check with the DLC Qualified Products List at www.designlights. org/QPL for updated list

#### Manufacturing

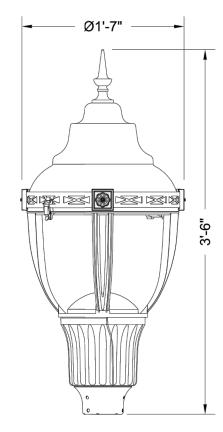
- Manufactured in Crawfordsville, Indiana, ARRA compliant • 100% electrical testing on all luminaires before shipment
- Ten (10) years minimum experience in manufacturing LED based products

# Warranty

5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms\_and\_ Conditions.aspx.

**Note:** Actual performance may differ as a result of end-user environment and application. ´ All values are design or typical values, measured under laboratory conditions at 25°C. Specifications subject to change without notice.

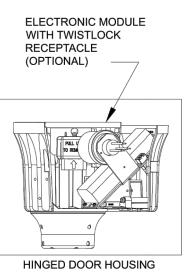
## **DIMENSIONAL DATA**



Maximum Effective Projected Area - 1.72 sg. ft.

Maximum Weight - 57 lbs

- CAST ALUMINUM FINIA OPTICAL ASSEMBLY COVER LATCH -LUMINAIRE HOUSING PHOTOCELL WINDOW OPPOSITE DOOR OPENING SLIPFITTER FOR NOMINAL 3" DIA. SET SCREWS TENON-



LIGHT POLE (TYP) 					
01    0.1    0.0    0.0      0.5    0.3    0.1    0.1    0.0      1.9    0.6    0.2    0.1    0.0      2.0    0.5    0.2    0.1    0.0      1.0    0.3    0.1    0.0    0.0		NAIDE	¶ CHEDULE		
0.5 0.1 0.1 0.0 0.0					
0.2 0.1 0.0 0.0 0.0	CALLOUT POLE	SYMBOL	LAMP	DESCRIPTION	B2 ELECT
	T OLL	$\otimes$	(1) SIX WHITE MULTI-CHIP LIGHT EMITING DIODES (LEDS), 2 LEDS TILTED63-DEGREES FROM VERTICAL BASE-UP POS	Holophane Washington FCO LED 2, P20, 2700K, Type 3 Optic	
0.0 0.0 0.0 0.0	WALL		(1) LED, 501-00221-001	LITHONIA OUTDOOR CAST SCONCE W/DR3 FROSTED LENS	ELECT
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		Ю			
0.1 0.0 0.0 0.0 0.0					
0,0 0.0 0.0 0.0			PHO	ERAL TOMETRIC EDULE	
			AVERAGE FOOT-CAN MAXIMUM FOOT-CAN MINIMUM	4.2	



# **FEATURES & SPECIFICATIONS**

**INTENDED USE** — The OLCS provides years of maintenance-free general illumination for residential and commercial outdoor applications such as walkways, doorways/entrances, columns, and stairways. **CONSTRUCTION** — Rugged cast-aluminum housing is protected by a thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling.

Polycarbonate LED lens/cover protects LEDs.

# Fixture weight = 2.4 lbs.

**OPTICS** — 48 high-performance LEDs produce up to 513 lumens and maintain 70% of light output at 50,000 hours of service. (LED lifespan based on IESNA LM-80-08 results and calculated per IESNA TM-21-11 methodology.)

White polycarbonate diffuser provides a soft white light at 4000K CCT.

See Lighting Facts Labels for specific fixture performance.

**ELECTRICAL** — Fixture operates at 120 volts, 60 Hz.

Standard input = 8.9 watts.

Operating temperature : -30°C to 40°C.

Amps @ 120V = .076.

Surge protection = 2.5kV.

**INSTALLATION** — Mounts easily to recessed junction box (by others).

LISTINGS — UL Listed to U.S. and Canadian safety standards for wet locations.

Designed for wall mounting more than 4' above the ground.

Tested in accordance with IESNA LM-79 and LM-80 standards.

WARRANTY — 5-year limited warranty. Complete warranty terms located at

www.acuitybrands.com/CustomerResources/Terms and conditions.aspx Actual performance may differ as a result of end-user environment and application.

Note: Specifications subject to change without notice.





NIMUM TO MAXIMUM

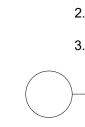
AXIMUM TO MINIMUM 1254.76

VERAGE TO MINIMUM 130.06

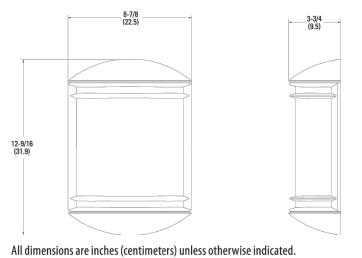
**OUTDOOR LED CAST SCONCE** 

lighting LÐ





1.



ORDERING INFORMATION All configurations of this product are considered "standard" and have short lead times Example: OLCS 8 DDB OLCS Series Finish **Light engines** Color temperature (CCT)<sup>1</sup> Voltage OLCS 120V DDB Dark bronze (blank) 4000K (blank) WH White **Owner's Consent Note** THE UNDERSIGNED OWNER OF THIS PROPERTY HEREON STATES THAT HE IS FAMILIAR WITH THIS MAP, ITS CONTENTS AND ITS LEGENDS AND HEREBY CONSENTS TO ALL SAID TERMS AND

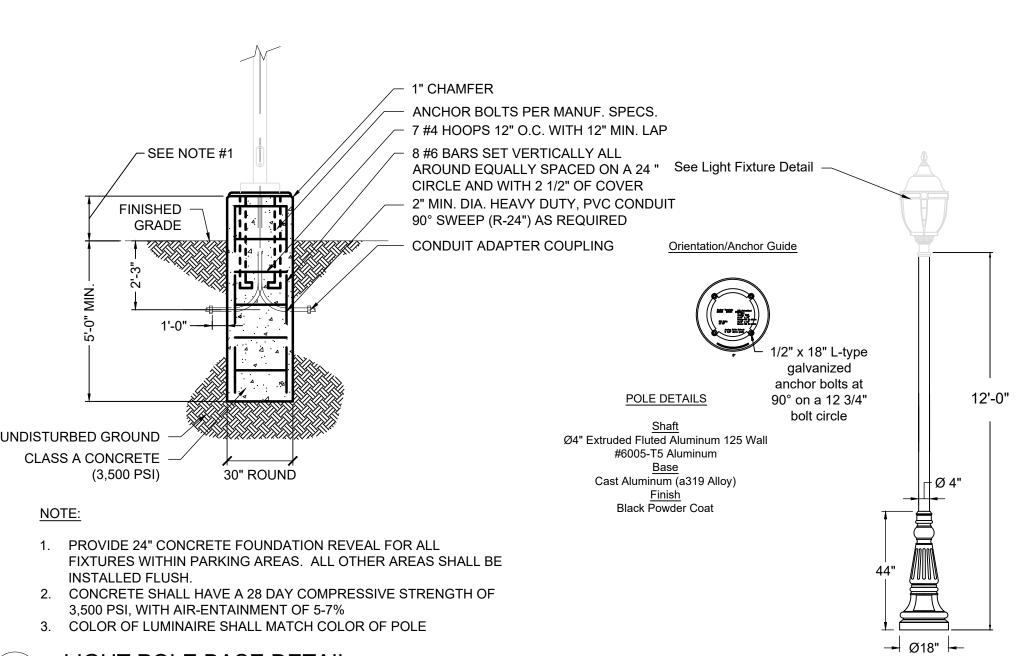
OWNER

CONDITIONS AS STATED HEREON

DATE



LLAST	MOUNTING	MODEL	VOLTS	NOTE 1	QUANTITY
ONIC	POLE	Holophane, WFCL2 P20 27K XX L3	120V 1P 2W	SCALED PHOTOMETRY TYPE IV, MEDIUM, BUG RATING: B1 - U0 - G1 POST TOP 0.88, 0.88, 0 WFCL2	5
ONIC	WALL	Lithonia Lighting, OLCS 8 DDB	120V 1P 2W	ACUITY BRANDS LIGHTING CONYERS LAB IES LM-79-08 OLCS TYPE IV, SHORT, BUG RATING: B0 - U3 - G1 470 8.93 LED WALL-MOUNT	8

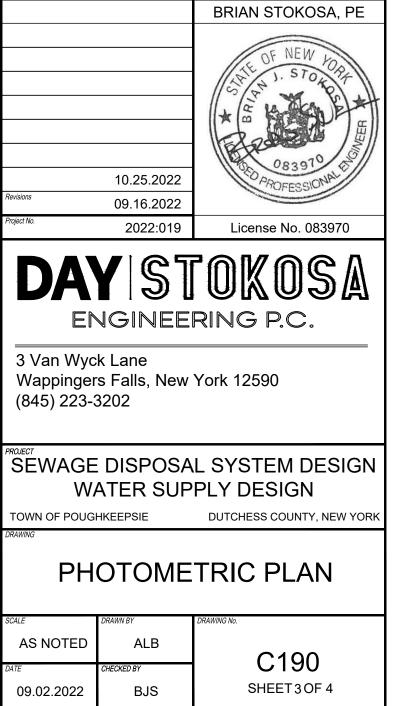


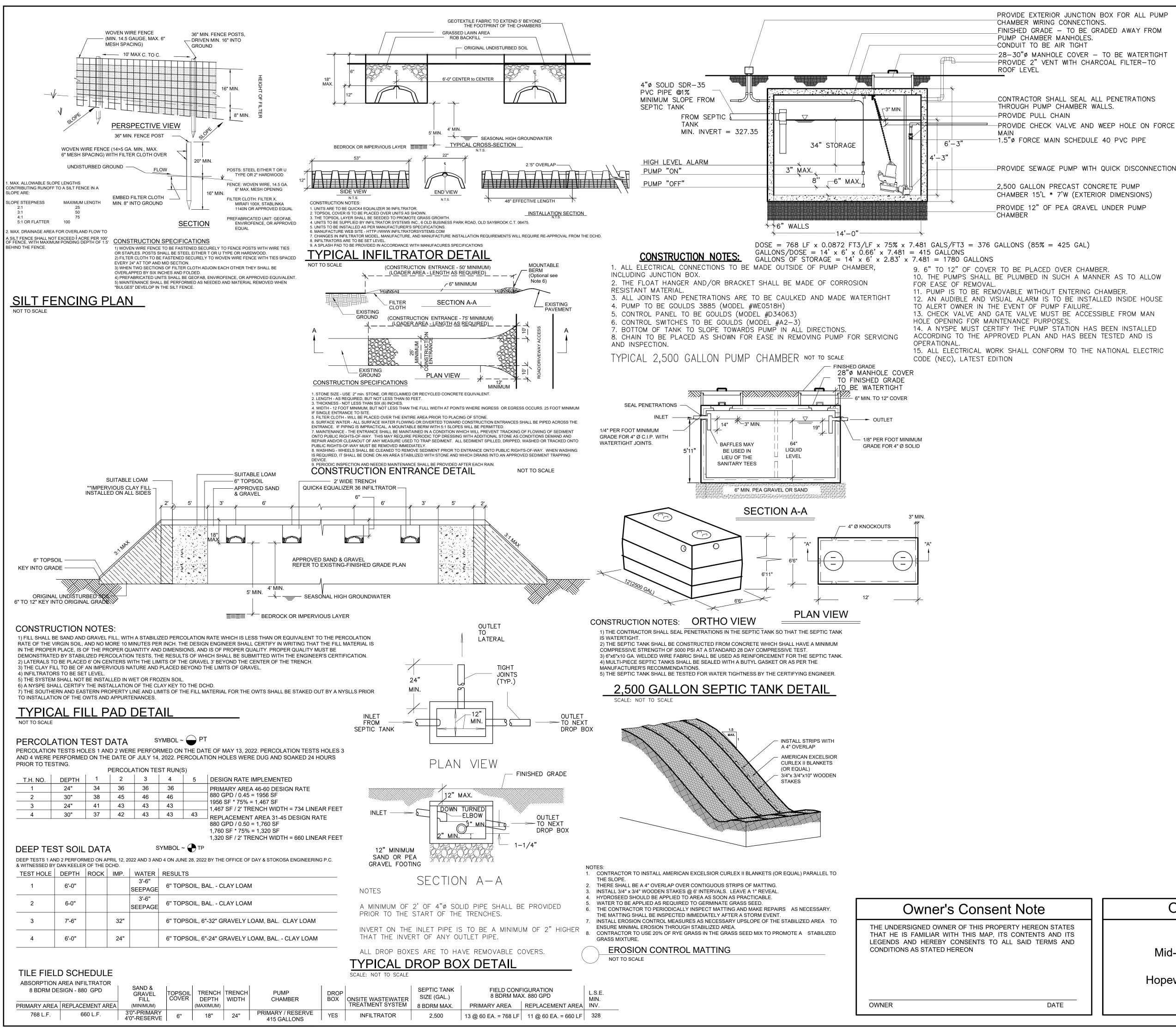
# LIGHT POLE BASE DETAIL

NOT TO SCALE



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





PROVIDE EXTERIOR JUNCTION BOX FOR ALL PUMP FINISHED GRADE - TO BE GRADED AWAY FROM

28-30"Ø MANHOLE COVER - TO BE WATERTIGHT

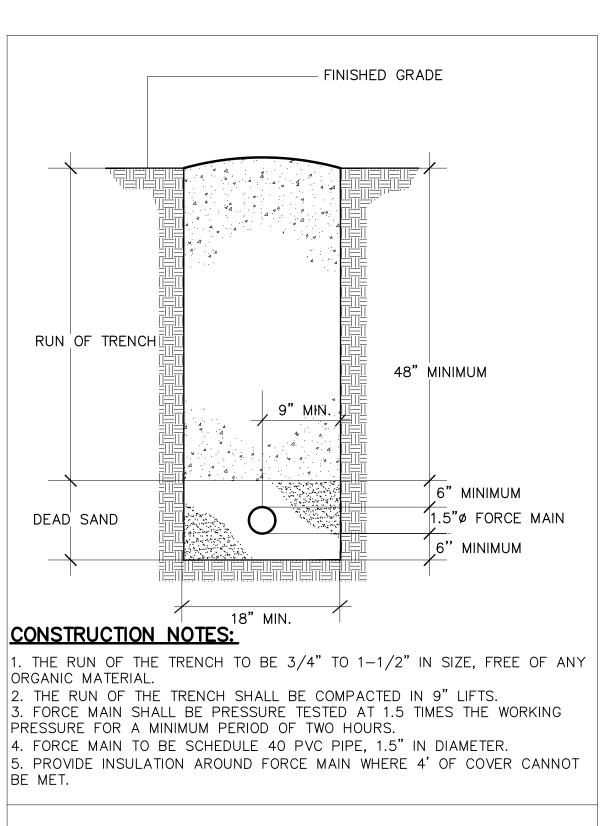
PROVIDE SEWAGE PUMP WITH QUICK DISCONNECTION

# SDS ABANDONMENT

1. THE EXISTING SEPTIC TANK, DISTRIBUTION BOX AND ANY OTHER SUBSURFACE STRUCTURE LOCATED ON THIS PARCEL IS TO BE PUMPED EMPTY, CLEANED AND REMOVED FROM SITE BY A LICENSED N.Y.S. SEWAGE HAULER PRIOR TO ISSUANCE OF A C.O. ALL VOIDS ARE TO BE REPLACED WITH SANDY LOAM TO EXISTING GRADE. 2. THE EXISTING TILE FIELD IS TO BE ABANDONED BY REMOVING ALL PIPING AND STONE AND REFILLING THE AREA WITH A SANDY LOAM. REMOVED PIPING SHALL BE HAULED TO A D.E.C. APPROVED



LANDFILL. 3. ABANDONMENT TO BE CERTIFIED BY A NY STATE LICENSED ENGINEER.



TYPICAL FORCE MAIN

NOT TO SCALE

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

		BRIAN STOKOSA, PE			
Revisions	10.25.2022 09.16.2022	OF NEW LORA			
Project No.	2022:019	License No. 083970			
3 Van W	ENGINEE yck Lane jers Falls, New	York 12590			
	WATER SUP	L SYSTEM DESIGN PLY DESIGN dutchess county, new york			
DRAWING	DETAIL SHEET				
SCALE AS NOTE DATE 09.02.2022	CHECKED BY	DRAWING NO. C530 SHEET4 OF 4			

	Own	er/Ap	oplican	ıt
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Mid-Hudson Development 982 NY-82 Hopewell Junction, NY 12533