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**SEWAGE TREATMENT SYSTEM (STS) DESIGN FOR Moundview Park 3130 Newtown Road, Cincinnati, OH, 45244 Par# 501-0008-0127-00 16.345 Acres**

*Designed By:*  
**SCS ENGINEERS**  
2060 Reading Road, #200  
Cincinnati OH 45202  
513-826-4174  
*Design date:* May 2023  
*Site Visited in* May 2023

System Installation, Operation And Maintenance (O&M)  
All system devices and components must be operated and maintained in accordance with the Ohio Department of Health (ODH) product approval and Hamilton County Public Health Operation Permit Terms and Conditions. System devices and components must be installed per ODH product approval, Hamilton County Installation Manual and this design. Where conflicts exist, consult HCPH or designer for guidance before proceeding.

Roth MultiTank Installation Manual: <http://ow.ly/YUyrc>  
Champion Pumps: <http://www.championpump.com/>  
Hamilton County Installation Manual: <http://ow.ly/YUIW30dOkV6>  
Conery Narrow Angle Floats: <http://ow.ly/uyE830gFitn>  
This installation will require an electrical inspection(s) and approval by IBI (513) 381-6080, <http://www.inspectionbureau.com/>  
Means for O&M is provided by the driveway which is within standard distances and elevations for a service truck.

Changes and Use of This Design  
This plan is the sole ownership of the designer and may not be altered, changed, used or manipulated without approval of SCS Engineers. SCS Engineers is available to make adjustments and address questions about the system design.

It is the responsibility of the contractor to verify that the system can be installed as designed, based on their preliminary lay-out of the job. It is the responsibility the installer and property owner to inform the designer of any field or other conditions that may affect the installation, operation or maintenance of the STS, including site disturbances that may affect the performance of a soil absorption component. If design changes are needed, redesign fees may apply.

System Protection  
Property owner and installer are responsible to protect the soil absorption areas from disturbance. Only excavate basal area when soil is dry and friable to a depth of 12" and in compliance with Hamilton County Installation Manual requirements. Keep wheeled traffic off basal area. It is the owner and installation contractors responsibility to locate underground utilities. If utilities interfere with the designed system, construction shall not proceed without approval from HCPH and SCS Engineers. No clearwater connections (downspouts, pool/spa water, footer tiles, cisterns, etc) shall be connected to this STS. All system components must meet the horizontal isolation distances specified in OAC 3701-29-06(G)(3).

System Cost Information  
The property owner has been informed of system options and briefed on cost factors. According to OAC 3701-29-10(B)(5), designers of STS systems must include approximate installation costs and operational costs of STS options to assist the homeowner in the selection of the STS options. SCS Engineers estimates costs as follows :  
\$58,500 - 78,000 Installation cost\*  
\$1,200 annual operational cost\*  
\*This is a general estimate of costs for this system. It is not a bid to install or service the STS. Contact a licensed installer and service provider or distributor for actual bids.

Disclaimer  
This plan set is not a site plan to be used for constructing anything other than the Sewage Treatment System. If an accurate legal site plan is required, contact a professional surveyor. This plan offers no guarantee as to the accuracy of information provided. This plan offers no guarantees for site stability. If site stability may be an issue, a geotechnical engineer should be consulted. Plan is only as accurate as the information provided by the property owner to the designer. Easements, right-of-ways, hidden objects or information not communicated to the designer invalidates the design. It is the property owner's responsibility to review this plan and information provided to verify all site conditions and design assumptions are correct. If conflicts are found or additional information must be supplied, the owner shall contact the designer and installation shall not proceed until the approval is granted. This design shall in no way be taken as guarantee that the system will function in a satisfactory manner for any given period of time, or that SCS Engineers or any of its agents or employees assume any liability for damages, consequential or direct, which are caused, or which may be caused by a malfunction of the STS.

Design Details:  
Septic effluent to a dosing tank to a sand mound with perimeter drains around all four sides. The Village of Newtown will place a Deed restriction on the parcels to keep them from being separated, since the septic spans two parcels.

Design Rationale:  
This replacement system design is for a Small Flow Onsite Treatment System (SFOTS) that consists of a park and a former residence that is now rental out for events. The projected equalized flow rate was calculated at 200 GPD. The peak flow should not be reached on a routine basis. Average flows of 120 GPD can be accommodated routinely with typical residential wastewater strength as specified in Ohio Administrative Code (OAC) 3701-29 for households.

Shallow soil with a seasonal water table at 20" and flow restrictive layer of high clay at greater than 50" from the ground's surface. Conditions require an 18" Vertical Separation Distance with 8" In Situ Soil. Since the site has 20" of in situ soil, the mound will contain a minimum of 6" of sand [per OAC 3701-29-15 Appendix B (III)(c)] the restrictive conditions are satisfied.

Sand mound minimum design length and width are calculated based on the worst soil conditions under the soil absorption system. The loading rate was selected from tables in the Ohio Administrative Code. The Soil Loading rate for this sandy loam with strong granular structure is 0.6 GPD/sq.ft for septic effluent. The Linear Loading Rate for this loam with moderate sub-angular blocky structure with an infiltrative distance of 20" and 2% slope is 3.8 GPD/Ln. Ft.

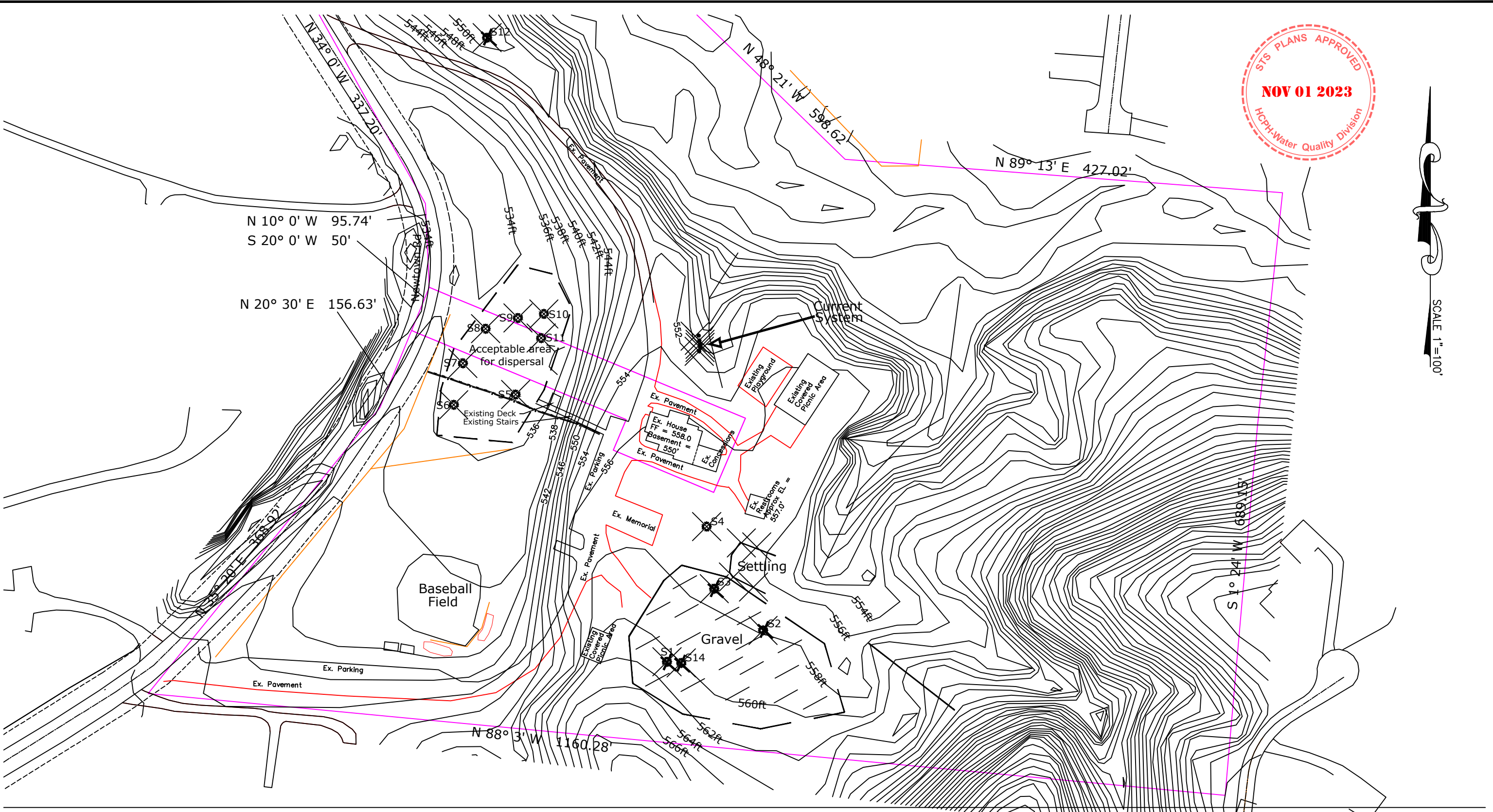
Sand Mound Minimum Design Length is therefore 200 GPD divided by 3.8 Gal.Per Ln. Ft = 52.6 feet long. Total mound dimensions including soil cover are 17.8 feet wide by 66.2 feet long. For complete mound dimensions, see calculation sheet provided separately.



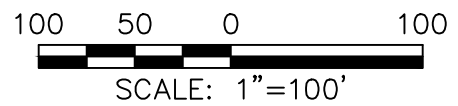
<b>SCS ENGINEERS</b> CONSULTING ENGINEERS, INC. 2060 READING ROAD SUITE 200 CINCINNATI, OHIO 45202 PH. (513) 826-4174			
PROJ. NO. 07222113.00	CADD FILE: Moundview SEPTIC V1	DATE: MAY 2023	SCALE: N.T.S.

SHEET 1  
GENERAL NOTES AND DESIGN BASIS  
3130 NEWTOWN ROAD - MOUNDVIEW PARK  
PARCEL NUMBER: 501-0008-0127-00  
HAMILTON COUNTY OHIO - 16.345 ACRES

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○ Soil Test Location



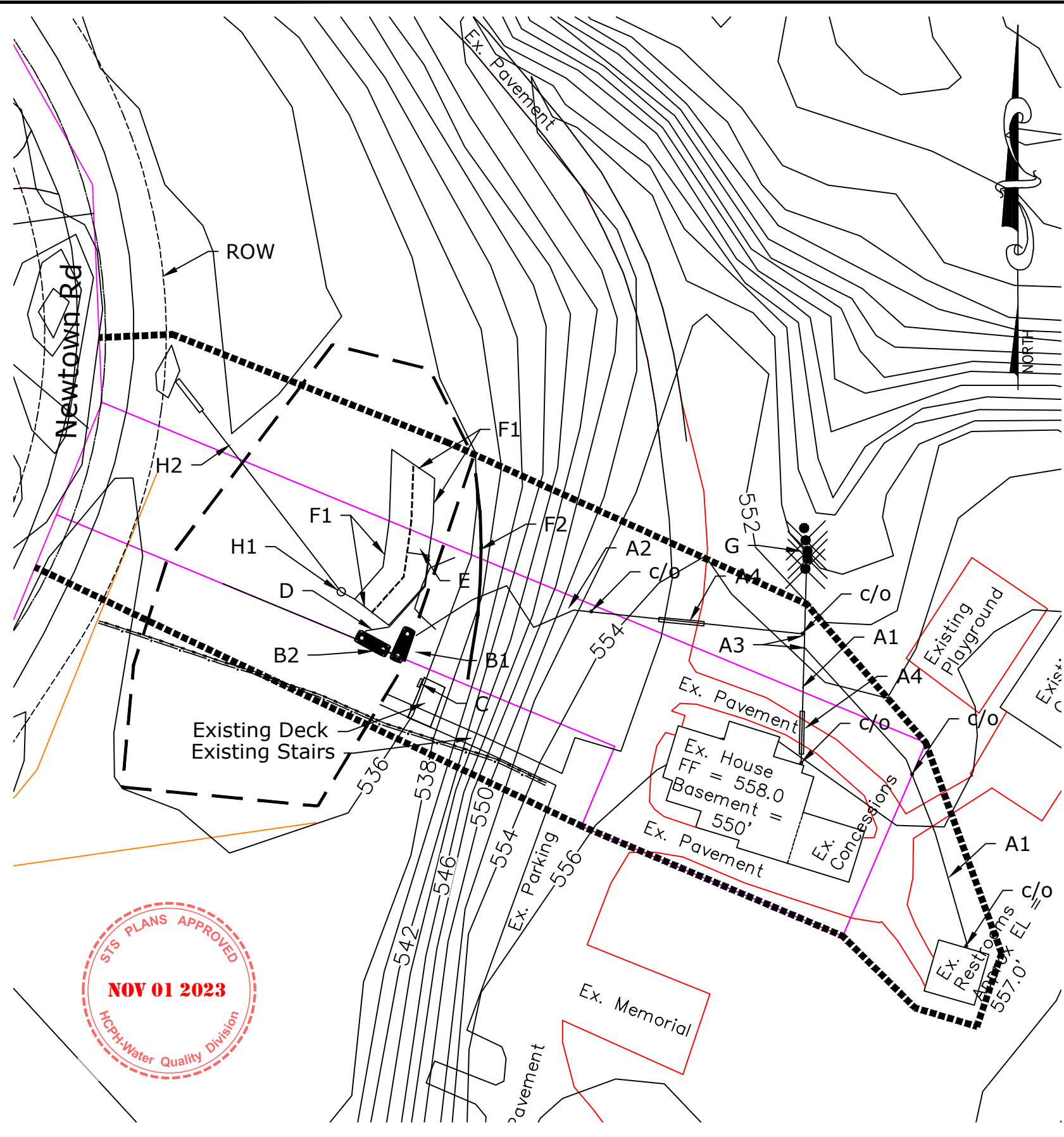
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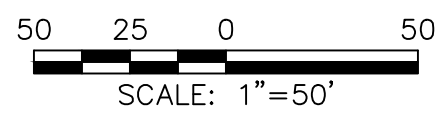
SHEET 2

SOIL LOCATIONS AND REPLACEMENT AREA  
 3130 NEWTOWN ROAD - MOUNDVIEW PARK  
 PARCEL NUMBER: 501-0008-0127-00  
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**NOTE:**  
ALL PIPE (WITH THE EXCEPTION OF INTERCEPTOR AND PERIMETER DRAIN PIPES) SHALL BE SCHEDULE 40 PVC MEETING ASTM D1785



- A1 - Existing 4 inch Schedule 40 PVC Sewer pipe with minimum 1% grade and cleanouts at house where building sewer crosses foundation wall. NOTE: Installer will need to verify existing building sewer location and pipe material to determine if building sewer needs to be replaced. Sewer camera video will need to be provided to Hamilton County for verification. If building sewer from detached restroom is replaced, it is likely to cross a waterline to the drinking fountain. Crossing must comply with OAC 3701-29-06 (G)(3)(d) for minimum vertical separation of the pipes and pipe sleeving requirements.
- A2 - New 4 inch Schedule 40 PVC Sewer pipe with minimum 1% grade and cleanouts at point where new building sewer begins. If building sewer is being replaced completely, then cleanouts need to be installed at point where building sewer crosses the foundation of existing house and existing restroom facility. And cleanouts at 75 feet and every 100 feet thereafter.
- A3 - All connections between separate building sewers must be made with "WYE" fittings.
- A4 - Building sewers crossing under existing pavement must be encased in 6" Schedule 40 PVC pipe or 6" SDR35 pipe and extend 5 feet beyond edge of pavement on both sides (where possible).
- B1 - ROTH RMT-1500 1500 gallon (working capacity) dual compartment septic tank with PolyLOK PL-122 effluent filter. Must maintain minimum 10 feet from existing deck.
- B2 - ROTH RMT-1060 1060 gallon single compartment dosing tank with Champion CPE4-12 (0.4 HP) pump
- C - Infiltrator AquaWorx IPC-SCB Simplex Control Panel and Zoeller APAK 91104-0001 Alarm Panel with electrical disconnect for Perimeter Sump.
- D - 1.5 inch Schedule 40 PVC force main.
- E - Mound - see Sheets 5, 6 & 7 for details. Row of orange flags set at centerline of lateral.
- F1 - 12" wide x 24" minimum depth Perimeter drain in gravel sloped 1/16" per foot to outlet. Depth will be about 30.25 inches at the connection to the outlet line. See Sheet 6 for Detail information.
- F2 - 2 foot wide by 6-inches high diversion berm
- G - Approximate location of existing original ATU and associated equipment. ATU and associated equipment shall be abandoned per OAC 3701-29-21, and in conformance with HCPH permitting and reporting requirements.
- H1 - Perimeter drain sump - Consolidated Treatment Systems 146 gallon pump basin (See Sheet 9)
- H2 - Perimeter drain sump discharge - 1.5" SCH40 PVC. Forcemain within level trench, minimum 24" deep, and drill weephole where forcemain loses 24" of cover. Forcemain to daylight no closer than 10 ft of the right of way near the existing culvert with 6" min. freeboard. Gravel bed 24" wide shall extend from discharge outlet near to existing culvert stopping at ROW.

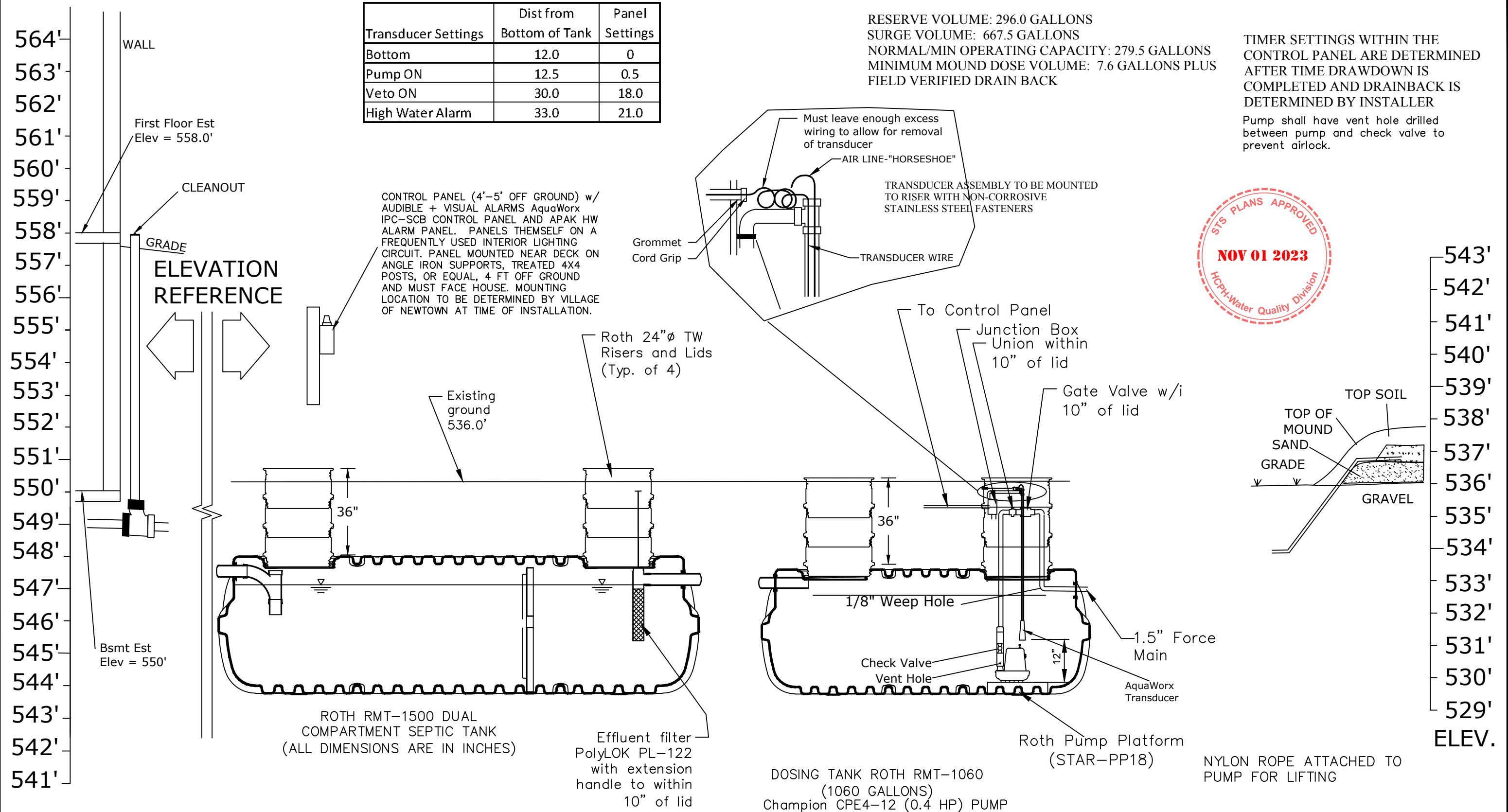
<b>SCS ENGINEERS</b> CONSULTING ENGINEERS, INC. 2060 READING ROAD SUITE 200 CINCINNATI, OHIO 45202 PH. (513) 826-4174		SHEET 3  SEPTIC SYSTEM LAYOUT AND COMPONENTS  3130 NEWTOWN ROAD - MOUNDVIEW PARK PARCEL NUMBER: 501-0008-0127-00 HAMILTON COUNTY OHIO - 16.345 ACRES	
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Transducer Settings	Dist from Bottom of Tank	Panel Settings
Bottom	12.0	0
Pump ON	12.5	0.5
Veto ON	30.0	18.0
High Water Alarm	33.0	21.0

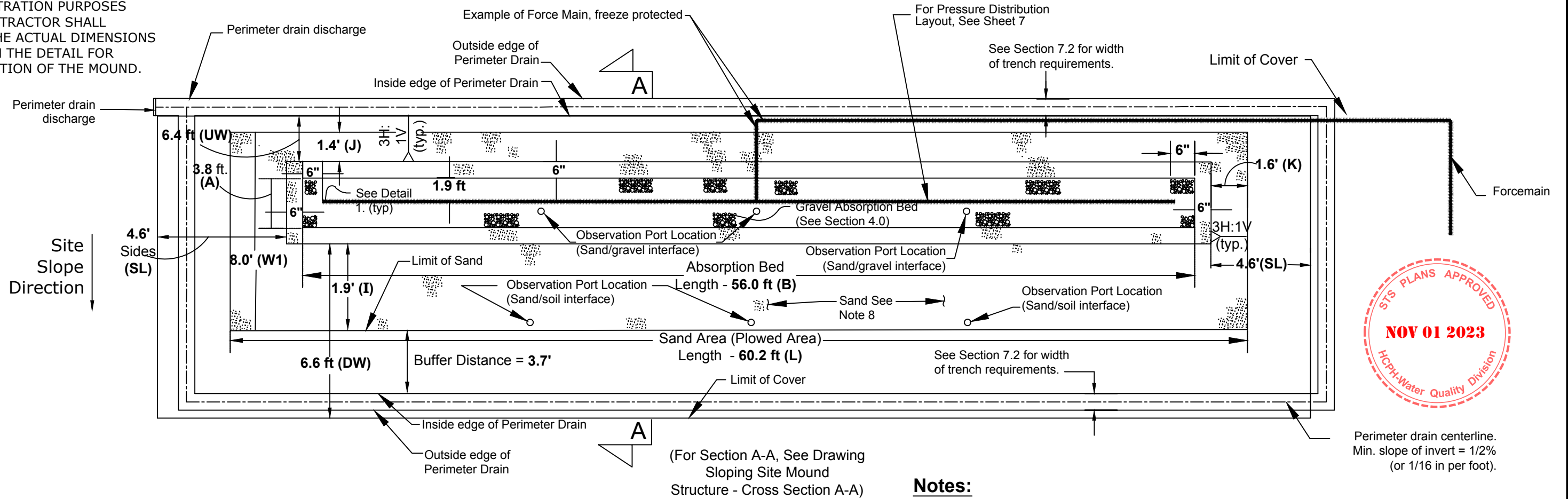
RESERVE VOLUME: 296.0 GALLONS  
 SURGE VOLUME: 667.5 GALLONS  
 NORMAL/MIN OPERATING CAPACITY: 279.5 GALLONS  
 MINIMUM MOUND DOSE VOLUME: 7.6 GALLONS PLUS  
 FIELD VERIFIED DRAIN BACK

TIMER SETTINGS WITHIN THE CONTROL PANEL ARE DETERMINED AFTER TIME DRAWDOWN IS COMPLETED AND DRAINBACK IS DETERMINED BY INSTALLER  
 Pump shall have vent hole drilled between pump and check valve to prevent airlock.



<p><b>** IMPORTANT ROTH TANK BUOYANCY NOTES</b></p> <p>THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR INSTALLING THE TANKS IN ACCORDANCE WITH MANUFACTURER GUIDELINES FOR BACKFILL AND BUOYANCY REQUIREMENTS. ROTH REQUIRES A MINIMUM COVER OF 31" FOR THE RMT-1060, AND 30" FOR THE RMT-1500 TANK IN LIEU OF OTHER ANTI-BUOYANCY MEASURES.</p>		<p><b>SCS ENGINEERS</b>          CONSULTING ENGINEERS, INC.          2060 READING ROAD SUITE 200 CINCINNATI, OHIO 45202          PH. (513) 826-4174</p>		<p>SHEET 4</p> <p>SEPTIC SYSTEM LAYOUT AND COMPONENTS</p> <p>3130 NEWTOWN ROAD - MOUNDVIEW PARK          PARCEL NUMBER: 501-0008-0127-00          HAMILTON COUNTY OHIO - 16.345 ACRES</p>	
PROJ. NO.	CADD FILE:	DATE:	SCALE:		
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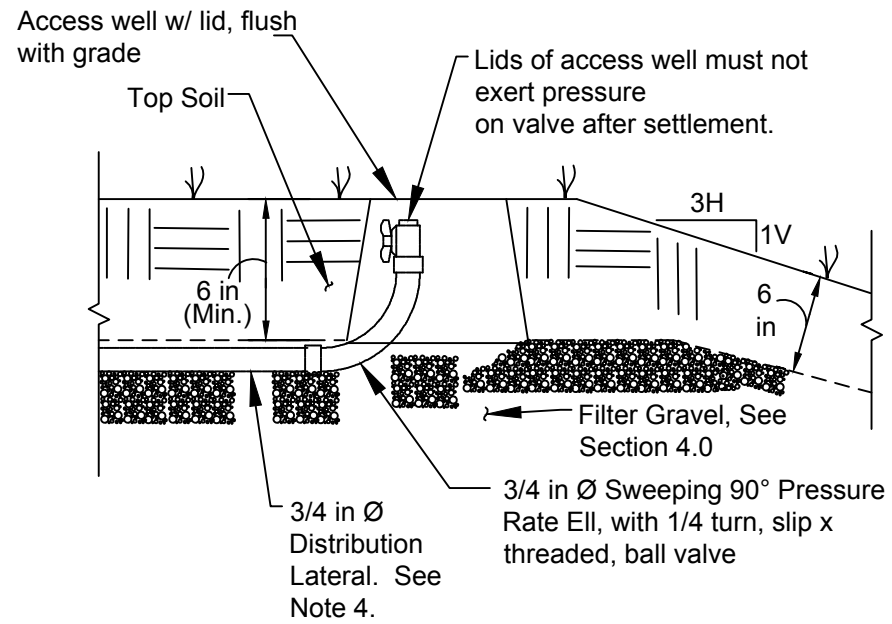
MOUND DETAIL IS NOT TO SCALE - FOR ILLUSTRATION PURPOSES ONLY. CONTRACTOR SHALL FOLLOW THE ACTUAL DIMENSIONS SHOWN ON THE DETAIL FOR CONSTRUCTION OF THE MOUND.



(For Section A-A, See Drawing Sloping Site Mound Structure - Cross Section A-A)

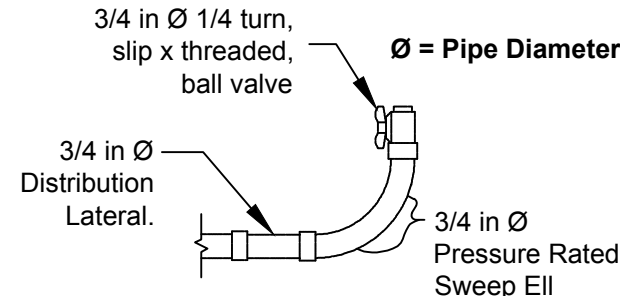
**Notes:**

- 1) Observation ports to be installed per Details 1 & 2, Sheet 6. Also see Observation Port Detail (i.e., fabrication detail) on Sheet 8.
- 2) See Approved Plan for dimensions of various mound components.
- 3) Buffer area to be protected (area between basal/sand area and interceptor or perimeter drains). Compaction, excavation, or plowing in this area is NOT permitted.
- 4) Orifices are set at the 6 O'Clock position (down) except first and last orifice on the laterals which face up. See Sheet 7 for the Pressure Distribution layout detail.
- 5) All Perimeter Drains share a common discharge line.
- 6) Perimeter Drains do not share a trench with pressure mains. Isolation distance is 3' minimum. If they must cross as part of an approved plan, then the drain is hard piped to 5' on either side of the pressure main and backfilled with tamped dirt. Interceptor drain maintains 6' from any distribution lateral. Perimeter Drain maintains 8' from any distribution lateral. Both drain types maintain at least 12" from any basal area sand fill.
- 7) Forcemain is to be sloped at a minimum of 1% (1/8 in per ft) to promote drainage back towards piping with 2' of cover after dosage completion.
- 8) Sand type complies with Section 4 (Table 4.2). Sand thickness is dependent on Approved Plan. Minimum sand thickness is based on the highest contour elevation on upslope side of basal under the gravel area. Top of sand area is to be level.



**Detail 1 - Lateral Cleanout**  
(No Scale)

**Sloping Site Mound & Modified Mound Structure - General Plan**  
(No Scale)



**Lateral Cleanout Setup**  
(No Scale)

ALL SECTION NOTATIONS REFERENCE THE HAMILTON COUNTY INSTALLER'S MANUAL

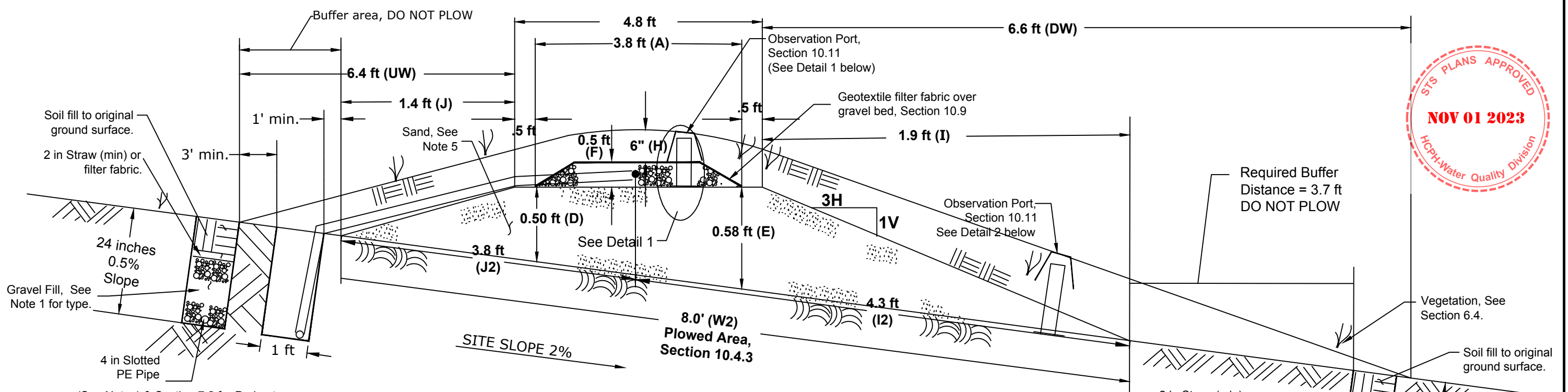
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SHEET 5  
**SLOPING SITE MOUND & MODIFIED MOUND GENERAL PLAN**

3130 NEWTOWN ROAD - MOUNDVIEW PARK  
PARCEL NUMBER: 501-0008-0127-00  
HAMILTON COUNTY OHIO - 16.345 ACRES

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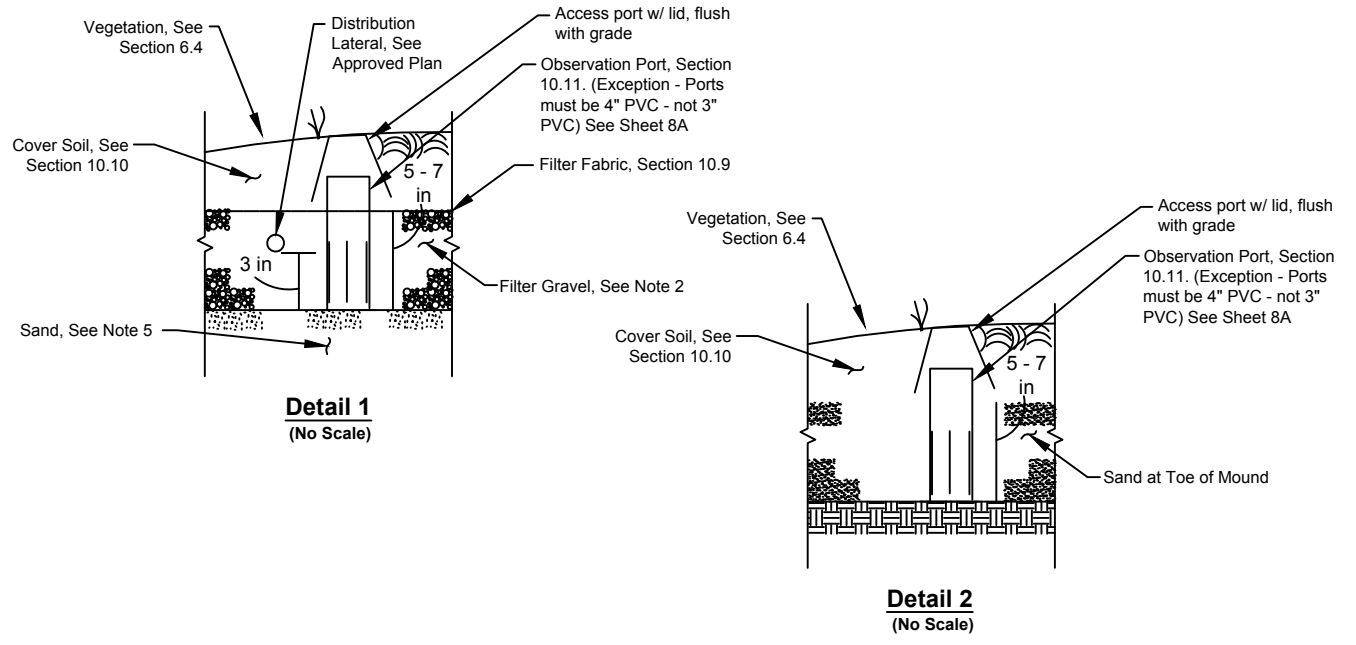


### Sloping Site Mound Cross Section A-A (Not to Scale)

MOUND DETAIL IS NOT TO SCALE - FOR ILLUSTRATION PURPOSES ONLY. CONTRACTOR SHALL FOLLOW THE ACTUAL DIMENSIONS SHOWN ON THE DETAIL FOR CONSTRUCTION OF THE MOUND.

#### Notes:

- 1) The required aggregate backfill varies with the width of the excavated trench, See Section 7.2 & 7.6 for requirements. For aggregate specifications, See Section(s) 4.5, 4.6 or 4.7. If aggregate specified in Section 4.7 is used, then the requirements of Section 4.9 apply. This section requires special marking to allow for confirmation of pipe invert slope.
- 2) The specified aggregate(s) in this component are summarized in Table 4.1. See Sections 4.5, 4.6 or 4.7 for individual aggregate type specifications.
- 3) The force main must be sloped to allow drainback to the point where two (2) feet of cover over the mains is maintained. The minimum slope of the force main for drainback is 1% (1/8 inch per foot). The mains must not penetrate the basal area.
- 4) The thickness of gravel above the lateral depends upon the orientation of the orifices. If the orifices are required to be at the 6 O'Clock position (Down), the laterals are to be installed flat. The gravel thickness is to be such that the distribution lateral is covered, but no more than 1 inch below the surface of the gravel. If the orifices are required to be at the 12 O'Clock position (Up), the laterals are to be installed at a minimum slope of 0.83% (1 in per 10 ft) sloping back (draining back) to the manifold. The thickness of gravel over the top of the lateral will vary, but the minimum thickness below the manifold (lowest point) is 3 inches.
- 5) Sand type complies with Section 4 (Table 4.2); C-33 sand also allowed for septic effluent per OAC 3701-29-15 Appendix B(III)(C)(2). Sand thickness is dependent on Approved Plan (see detail above). Minimum sand thickness is based on the highest contour elevation on upslope side of basal under the gravel area. Top of sand area is to be level.



ALL SECTION NOTATIONS REFERENCE THE HAMILTON COUNTY INSTALLER'S MANUAL

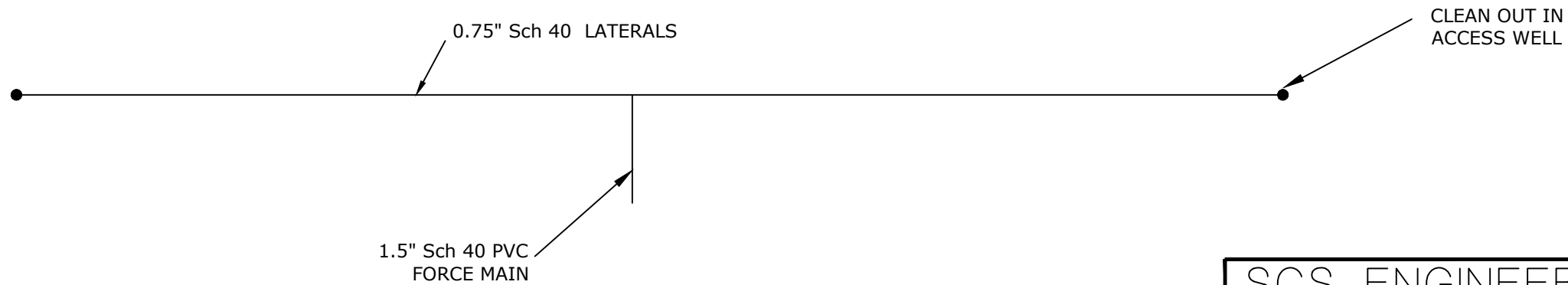
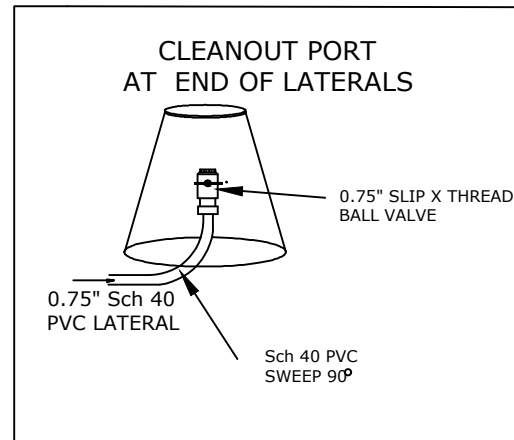
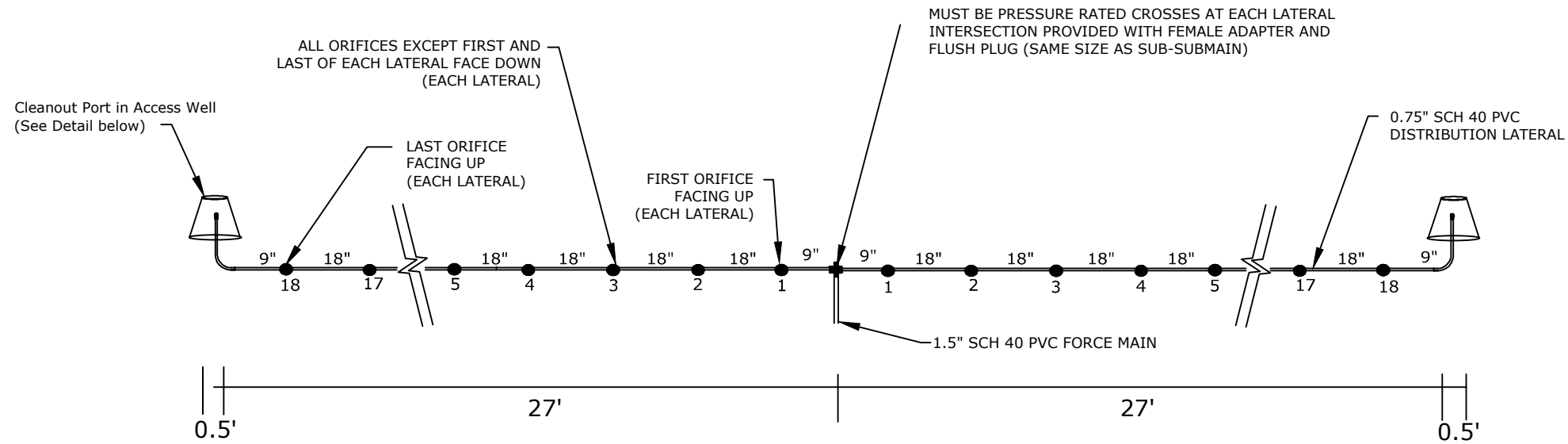
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SHEET 6  
SLOPING SITE MOUND STRUCTURE  
CROSS SECTION

3130 NEWTOWN ROAD - MOUNDVIEW PARK  
PARCEL NUMBER: 501-0008-0127-00  
HAMILTON COUNTY OHIO - 16.345 ACRES

# TYPICAL LATERAL SET LAYOUT



**System Lateral Set Layout**  
(No Scale)

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PH. (513) 826-4174

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SHEET 7  
PRESSURE DISTRIBUTION DETAIL  
3130 NEWTOWN ROAD - MOUNDVIEW PARK  
PARCEL NUMBER: 501-0008-0127-00  
HAMILTON COUNTY OHIO - 16.345 ACRES

ALL SECTION NOTATIONS REFERENCE THE HAMILTON COUNTY INSTALLER'S MANUAL

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### Pump Selection for a Pressurized System - Commercial Project

Moundview Park / 3130 Newtown Road

#### Parameters

Discharge Assembly Size	1.50	inches
Transport Length	60	feet
Transport Pipe Class	40	
Transport Line Size	1.50	inches
Distributing Valve Model	None	
Max Elevation Lift	7	feet
Manifold Length	0	feet
Manifold Pipe Class	40	
Manifold Pipe Size	1.00	inches
Number of Laterals per Cell	2	
Lateral Length	27	feet
Lateral Pipe Class	40	
Lateral Pipe Size	0.75	inches
Orifice Size	1/8	inches
Orifice Spacing	1.5001	feet
Residual Head	5	feet
Flow Meter	None	inches
'Add-on' Friction Losses	5	feet

#### Calculations

Minimum Flow Rate per Orifice	0.43	gpm
Number of Orifices per Zone	36	
Total Flow Rate per Zone	15.9	gpm
Number of Laterals per Zone	2	
% Flow Differential 1st/Last Orifice	9.6	%
Transport Velocity	2.5	fps

#### Frictional Head Losses

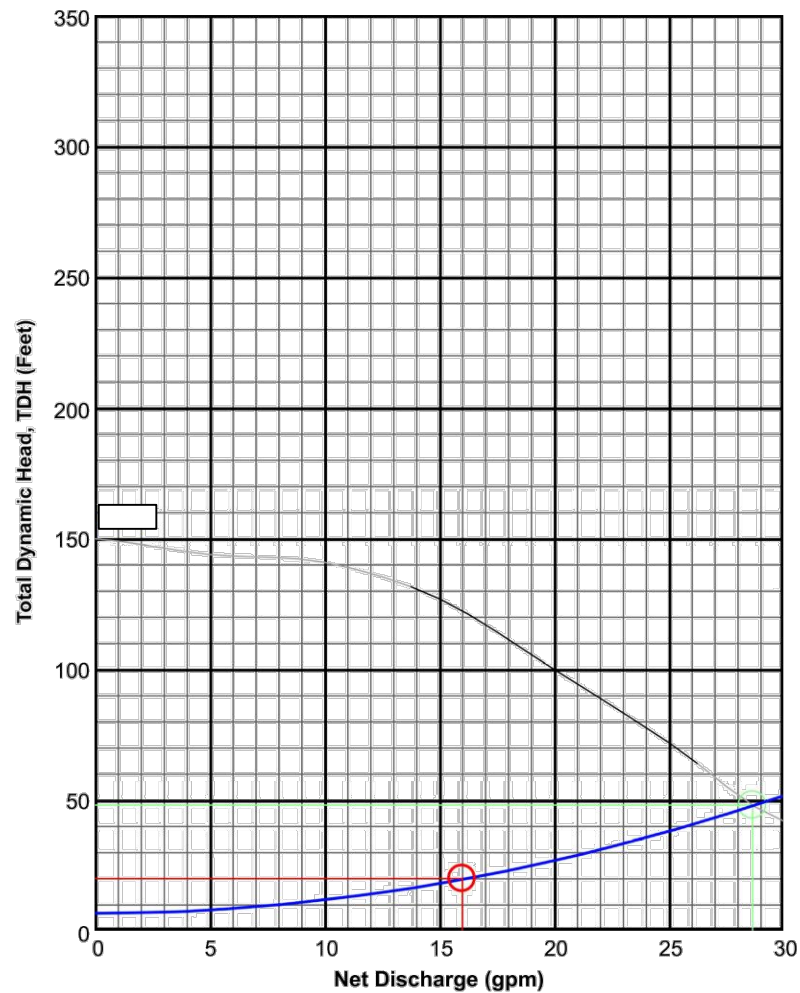
Loss through Discharge	0.8	feet
Loss in Transport	0.9	feet
Loss through Valve	0.0	feet
Loss in Manifold	0.0	feet
Loss in Laterals	1.2	feet
Loss through Flowmeter	0.0	feet
'Add-on' Friction Losses	5.0	feet

#### Pipe Volumes

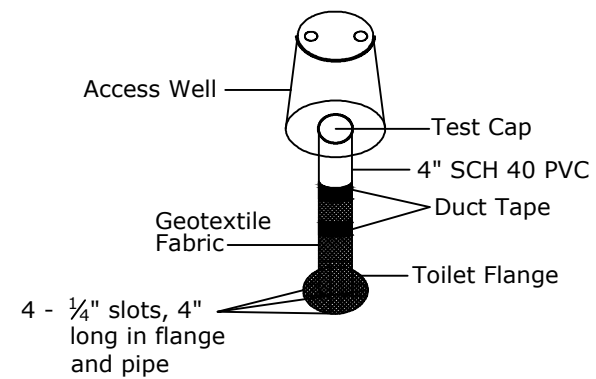
Vol of Transport Line	6.3	gals
Vol of Manifold	0.0	gals
Vol of Laterals per Zone	1.5	gals
Total Volume	7.8	gals

#### Minimum Pump Requirements

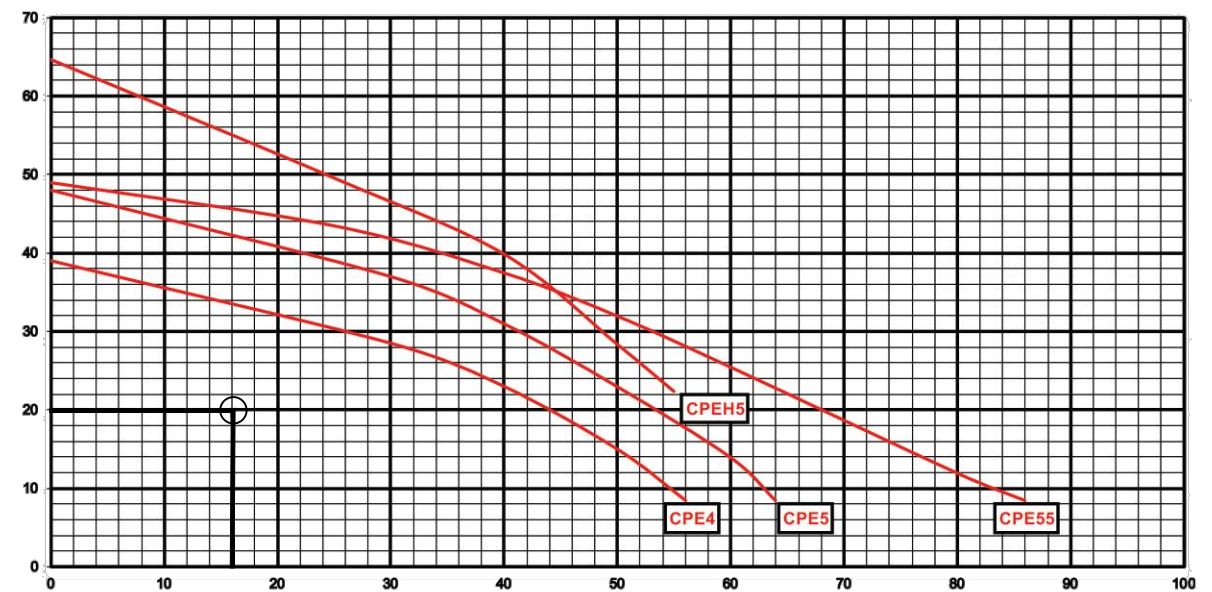
Design Flow Rate	15.9	gpm
Total Dynamic Head	19.9	feet



### Observation Port Detail (6)



### PERFORMANCE CURVE



Champion CPE4-12 (0.4 HP) PUMP CURVE

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SHEET 8  
 PUMP SELECT INFORMATION

3130 NEWTOWN ROAD - MOUNDVIEW PARK  
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 HAMILTON COUNTY OHIO - 16.345 ACRES

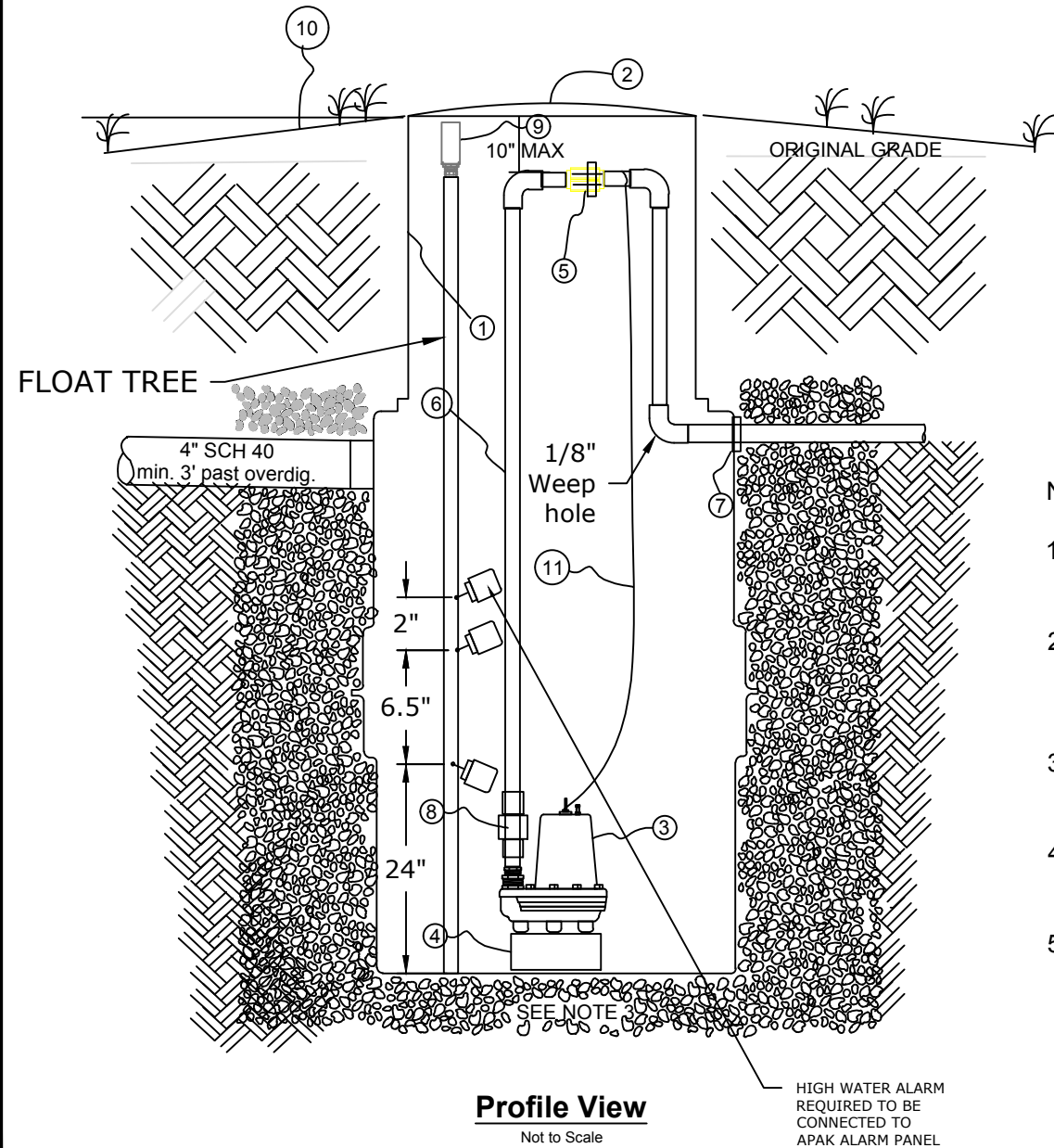


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#	DESCRIPTION	#	DESCRIPTION
1	Perimeter Drain Pump Vault - Consolidated Treatment Systems, Inc 146 gallon Pump Tank	7	All Pipe Penetrations Are Sealed With Rubber Grommets
2	Child Proof Cover - #2 Stainless Steel Square Head bolts. Down Fiberglass / Plastic Lid.	8	Check Valve - 1.5" and vent hole between pump and check valve
3	Drainage Pump - Zoeller Model N152 with 10-1964 double piggyback float switch	9	NEMA 4x Electrical Enclosure With Properly Fitted Cord Grips And Sealed Electrical Wire Inlet. Leave Enough Cord For Easy Removal Pump. Installed Above Original Grade.
4	6" (min.) Concrete Block	10	Final Grade - Sloped Away From Sump Basin
5	Glued Union Or Quick Disconnect	11	Lifting Rope - Nylon Marine Grade or Stainless Steel Lifting cable
6	1-1/2" SCH 40 PVC With Pressure Rated Fittings.		

### Drainage Enhancement

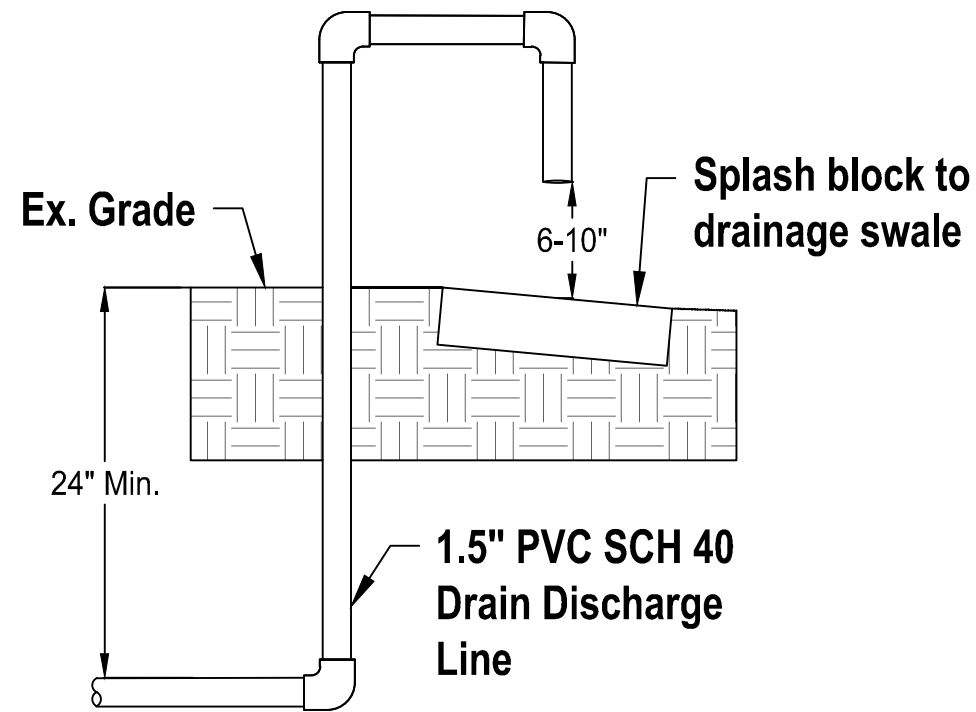
Sump Sections 7.4 - 7.5



**Profile View**

Not to Scale

HIGH WATER ALARM REQUIRED TO BE CONNECTED TO APAK ALARM PANEL

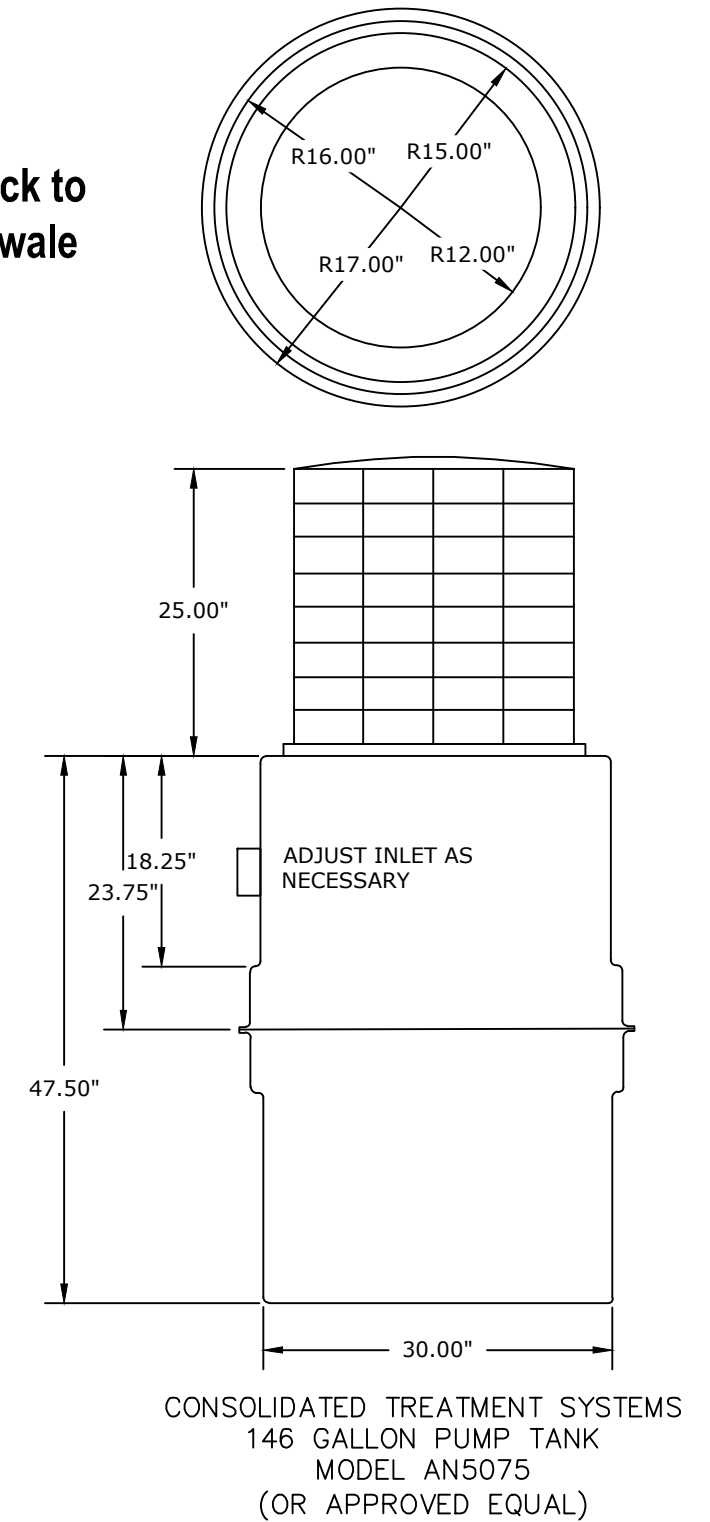


DEMAND PUMP-DOWN VOLUME: 21.7 GALLONS PLUS FIELD MEASURED DRAINBACK.  
 NORMAL/MIN OPERATING CAPACITY: 73.5 GALLONS

DISTANCE BETWEEN ON/OFF FLOATS WILL HAVE TO BE FIELD ADJUSTED AFTER DRAINBACK VOLUME IS DETERMINED.

**Notes:**

- The 'ON' Switch For The Pump Is To Be Min.Of 6" Below the Invert Of The Inlet Pipe.
- Multiple Drain Tiles Are To Be Connected Together Outside Of The Sump. Only One Penetration Should Be Made Into The Basin.
- Electrical Wiring And Connections To Be Made Per Local and National Electric Codes.
- Pump floats are Zoeller double-piggyback wide angle floats (#10-1964)
- Alarm panel for HWA shall be Zoeller APAK Model 91104-0001 with supplied mechanical float switch. See Sheet 3 for mounting location.



CONSOLIDATED TREATMENT SYSTEMS  
 146 GALLON PUMP TANK  
 MODEL AN5075  
 (OR APPROVED EQUAL)

**SCS ENGINEERS**  
 CONSULTING ENGINEERS, INC.  
 2060 READING ROAD SUITE 200 CINCINNATI, OHIO 45202  
 PH. (513) 826-4174

PROJ. NO. 07222113.00	CADD FILE: Moundview SEPTIC V1	DATE: MAY 2023	SCALE: N.T.S.
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SHEET 9  
 PERIMETER DRAIN PUMP BASIN  
 3130 NEWTOWN ROAD - MOUNDVIEW PARK  
 PARCEL NUMBER: 501-0008-0127-00  
 HAMILTON COUNTY OHIO - 16.345 ACRES