SEWAGE TREATMENT SYSTEM (STS) Design Plan:
When referring to codes in this design plan use HCPH Resolution A-2015: Policies And Standards Pursuant To Ohio Administrative Code Section 3701-29; Sewage Treatment System Rules.

For installation instructions, materials, system devices and components and products listed in this design plan use manufacturer's specs, Hamilton County Installers Manual, and contact designers of Smallwood Septic Solutions for information. These Plans and 3701-29 Shall Dictate Design Specifics. HCPH Installation Manual Shall be Used for Procedures and to Supplement Information Not Otherwise Specified. It is highly recommended to have a copy of the Hamilton County Installation Manual during installation. Where conflicts exist, consult Smallwood Septic Solutions for guidance before proceeding.

Definitions:
"3701-29-# #" refers to the Ohio Administrative Code.
"HCPH" = Hamilton County Public Health.
"IBI" = The Inspection Bureau, Inc. Required for Electrical inspection.
"LPP" = Lower Pressure Pipe..
"O&M" = Operations and Maintenance
"ODH" = Ohio Department of Health.
"Section" refers to the HCPH Installer's Manual.
"STS" = Sewage Treatment System.
"VSD" = Vertical Separation Distance.

Design Detail and Rationale
This design is for a Existing 2 bedroom home with a Daily Design Peak Flow of 240 GPD. The peak flow should not be reached on a routine basis. Average flows of 144 GPD can be accommodated routinely with typical residential wastewater strength as specified in Ohio Administrative Code (OAC) 3701-29 for households.
The seasonal water table is at 12" and flow restrictive layer is 23" from the ground's surface.
Conditions require an 18" Vertical Separation Distance with 8" In Situ Soil. (see attached calculation sheet)
Owner chose an Jet J500-PLT aerobic treatment unit which supplies 1' Soil Depth Credit and an Infiltrator IM1060 Single Compartment Dosing Tank with a time-dosed Control Panel to an OSU Sloping Site Mound with upslope interceptor drain and downslope perimeter drain.
The OSU Sloping Site Mound minimum design length and width are calculated based on the worst soil conditions under the soil absorption system using OSU Bulletins 813 and 829. The loading rates are selected from tables in the Ohio Administrative Code.
The Soil Loading Rate for Silt Loam with Weak Sub-Angular Blocky structure is 0.6 GPD/sq.ft for pretreated effluent.
The Linear Loading Rate for Silty Clay Loam with Moderate Sub-Angular Blocky structure with an infiltrative distance of 12" and 3% slope (as determined on-site) is 2.7 GPD/ln.ft.
The OSU Sloping Site Mound minimum design length is 240 GPD / 2.7 Gal/ln.ft.= 88.8 feet long.
Total mound dimensions including soil cover are 16.73 feet wide by 108.24 feet long. Total sand / basal area is 6.00 feet wide by 102.24 feet long.

Changes and Use of This 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 of the installer and property owner to inform the designer of any conditions on the site, or otherwise, 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. The designer will be available to make adjustments.

System Protection
Property owner and installer are responsible to protect the soil absorption areas from disturbance. Keep wheeled traffic off the soil absorption area. It is the owner and installation contractor's responsibility to locate underground utilities. If utilities interfere with the designed system, construction shall not proceed without approval from HCPH and Designer.

System Cost Information
The property owner has been informed of system options and has been briefed on cost factors. According to 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 :
*$33,000 - $40,000 Installation cost**
*$800 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.*

1) *SCS Engineers is available to make adjustments and address concerns, as needed.*
2) *O&M requirements: All system devices and components must be operated and maintained in accordance with the Ohio Department of Health (ODH) product approval, Hamilton County Public Health Operation Permit Terms and Conditions. Telemetry and associatted phone service must be active for the life of the STS. System devices and components must be installed per ODH product approval, Hamilton County Installation Manual and this design. Where conflicts exist, consult Designer for guidance before proceeding. See reference section on this sheet for web-site information to obtain O&M Instructions. Means of O&M is accessible via the driveway and is within a reasonable distance for a standard truck.*
3) *Obstructions (if any) will be marked on site plan with the word "obstructions", and will have notes describing the obstructions and the proper way to avoid them.*
4) *This plan is the sole ownership of the designer and the homeowner at time of payment. This design may not be altered, changed, used or manipulated without expressed written approval of Smallwood Septic Solutions. Contact Smallwood Septic Solutions if changes are needed.*
5) *For further information not shown in these plans, refer to reference section on this sheet for web-sites and contact information. Be sure to address any other questions to HCPH during pre-construction meeting.*
6) *No unapproved connections or clear water connections (downspouts, pool/spa water, footer tiles, cisterns, etc) shall be connected to this STS.*
7) *This design is for a non-discharging system.*
8) *STS is sited on lot, with 10' and 50' isolation distances marked on scaled drawing as per 3701-29-06. STS is not in a floodway, wetland or within 100 year flood plain and sanitary sewers are not accessible.*
9) *Soil test provided by Dan Michael, Clear Creek Environmental.*
10) *Soil report describes the limiting condition and is noted.*
11) *STS was designed with adequate depth to limiting layer.*
12) *STS was designed with adequate depth to restrictive layer.*
13) *Soil test indicates soil horizons and depths.*
14) *Soil test indicates soil texture and structure of each horizon.*
15) *Soil test indicates estimated slope. Vertical scale shows actual slope.*
16) *Basal rate and linear loading rate are based off soil report and are appropriate for soils utilized.*
17) *Soil classifications are noted on report.*
18) *If there is highly permeable soil present in report, it will be noted in design. Otherwise N/A.*

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 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 further approval is granted.

References for Sewage Treatment System Design, Installation, Materials and O&M:
- Dan Michael, Clear Creek Environmental. 1-800-299-4257.
- Jet Wastewater Treatment Solutions - Tristate Jet. 513-896-4538. https://bit.ly/2QDwe8g
- Infiltrator. 1-800-221-4436. www.infiltratorwater.com
- Hamilton County. 513-946-7800. www.hamiltoncountyhealth.org
- Electric Inspections. IBI. 513-381-6080
- Ohio Department of Health. 614-644-7551. www.odh.ohio.gov
- Orenco. (800) 348-9843. www.orenco.com
- Polylok - www.polylok.com - (888) 284-8514
- SIM/TECH Filter. 888-999-3290. www.simtechfilter.com

Designed By:
SCS Engineers
2060 Reading Road #200
Cincinnati, OH 45202

Draft Plot Date: February 16, 2022
Site Visited: January 31, 2017

Know what's below. Call before you dig.

Smallwood Septic Solutions
1575 Hogue Road
Hamilton, OH 45013
(513)844-1717

Ray Blazer - (513) 922 - 7234
6986 Bluebird Drive Cincinnati, OH 45248
Green Township Hamilton County
Parcel #550-0290-0035-00, 0.465 Acres
Existing 2 Bedrooms. Public Water Supply.

Scale: As Noted
Drawn By: JWD
Design Date: 11/15/2018
Revision Number: 05
Revision Date: 02/16/2022
Drawing Number: Cover

Property View

NOTE:
This drawing is intended to be an accurate approximation (per 3701-29-10 Paragraph (C) Section 9c) of the noted site at the time of plan development. It is intended solely to aid in acquisition of a permit for septic system installation. It is NOT intended for use legally as representation in place of a binding document or survey of the property. The proposed system has been designed to meet the rules and limitations implemented by Section 3701-29. The designer is not to be held responsible for any reason due to system expectations not being met. The information presented in this design is the property of SCS Engineers and will not be used without expressed written consent stating as such.

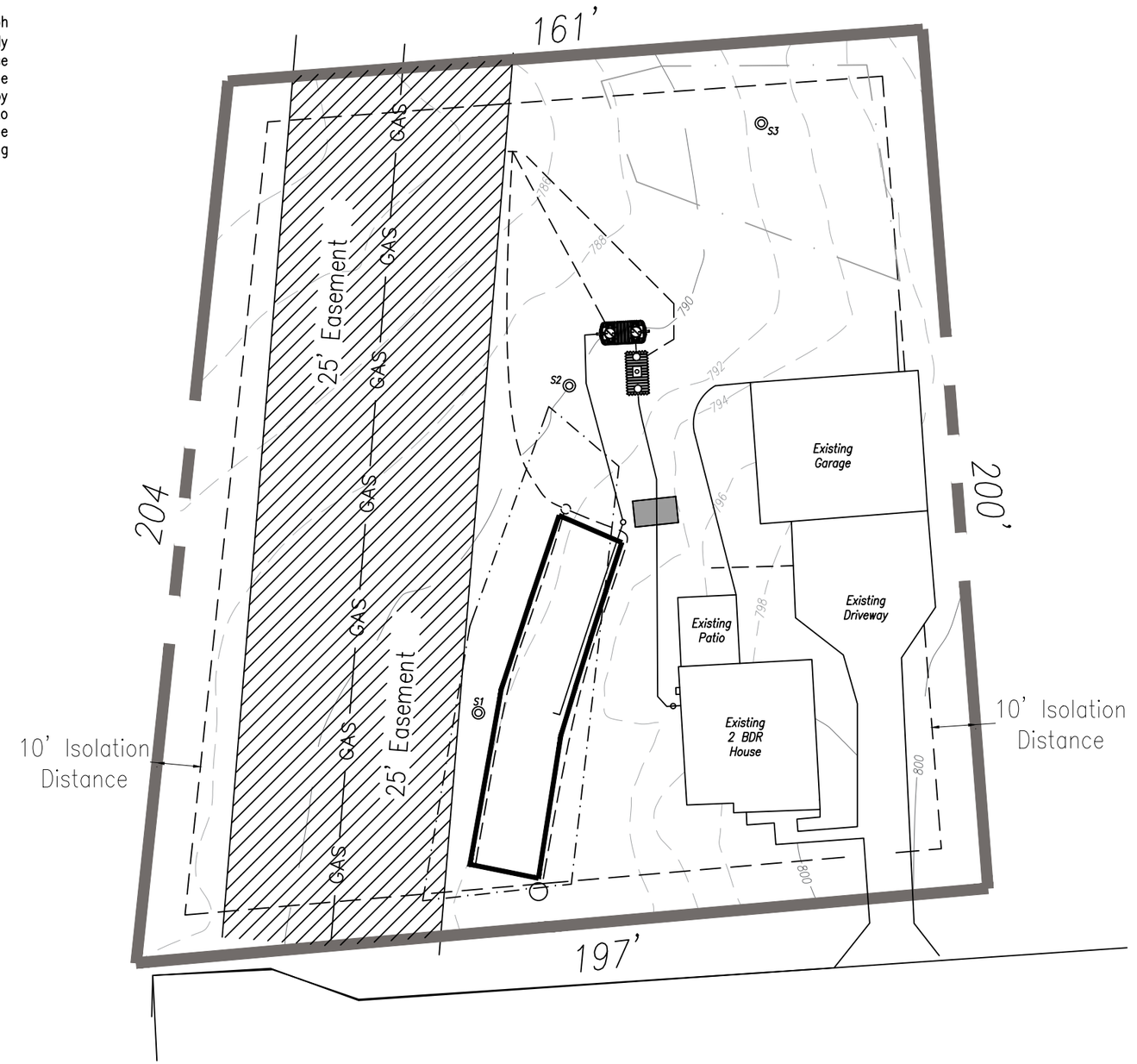
Legend

- Jet J-500 PLT ATU
- IM-1060 Dose Tank
- Soil Sample Site
- Property Line
- 10 ft Contours
- 2 ft Contours

Contours shown are from County Auditor's website or previous plot plans and may deviate from current conditions. Installer should verify field conditions in order to install system per guidelines in this design and per ODH specifications.

0 15 30

ORIGINAL SCALE: 1" = 30'



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Scale:	As Noted
Drawn By:	JWD
Design Date:	11/15/2018
Revision Number:	05
Revision Date:	02/16/2022
Drawing Number:	1 of 8

Legend

- Jet J-500 PLT ATU
- IM-1060 Dose Tank
- Soil Sample Site
- Property Line
- 10 ft Contours
- 2 ft Contours

0 10 20

ORIGINAL SCALE: 1" = 20'

System Details

NOTES:
The proposed system has been marked on-site with flags to match the description written in this design. It is the responsibility of the property owner, builder and installer to maintain and keep the on-site flags in their proper location. Installer MUST verify flag locations according to design prior to any work being performed. If flags are not present or not laid out according to design plan, installer MUST call to have flags re-laid out. Additional fees may apply. For more information or for questions about system layout, please contact:

SCS Engineers
(513)-826-4174

A) New 4" SCH 40 PVC Sewer line from house to Jet Aerobic Treatment Unit. Standard cleanout outside house. Distance between cleanouts shall be a maximum of 75' or as noted on plan. Refer to 3701-29-12.

B) Jet J-500 PLT Aerobic Treatment Unit and Anti-Buoyancy drain.

C) Infiltrator IM-1060 Single Compartment Dosing Tank with AquaWorx Pressure Bell Assembly and Orenco PF3005 Pump. Refer to 3701-29-12 (J) and (K).

D) Jet Model 191 Control Panel and AquaWorx IPC Control Panel. Pump will be TIME DOSED. See 3701-29-12 (M) and 3701-29-15 (A)(2)(a)(b), (A)(5). Can also mount panels on post 4' min. above grade near infiltrator tank.

E) 1.5 inch Sch 40 PVC Force Main. Buried at least 24 inches in depth. Refer to Section 5.6.

F) Trap w/ air release valve. Refer to Section 5.11. See page 4 for Details.

G) OSU Sloping Site Mound. Refer to OSU Bulletins 813 and 829.

H) Interceptor Drain. Refer to 3701-29-16. See Page 5 for details.

I) Perimeter drain. Refer to 3701-29-16. See Page 5 for details.

J) Polylok 3017-20 20" D-Box to be used as Sampling Well. Refer to Code Section OAC 3701-29-13 (F)

K) Perimeter/ Interceptor drain outlet pipe with animal guard. Must meet requirements of OAC 3701-29-16 (G).

L) Anti-Buoyancy Drain for Jet & Infiltrator Tanks.

M) Abandon Existing Septic tank and STS Components. Will require inspection by Hamilton County Public Health on proper STS abandonment. Refer to 3701-29-21 and www.Hamiltoncountyhealth.org (Search for "abandon existing septic system" on website for details.)

NOTES:
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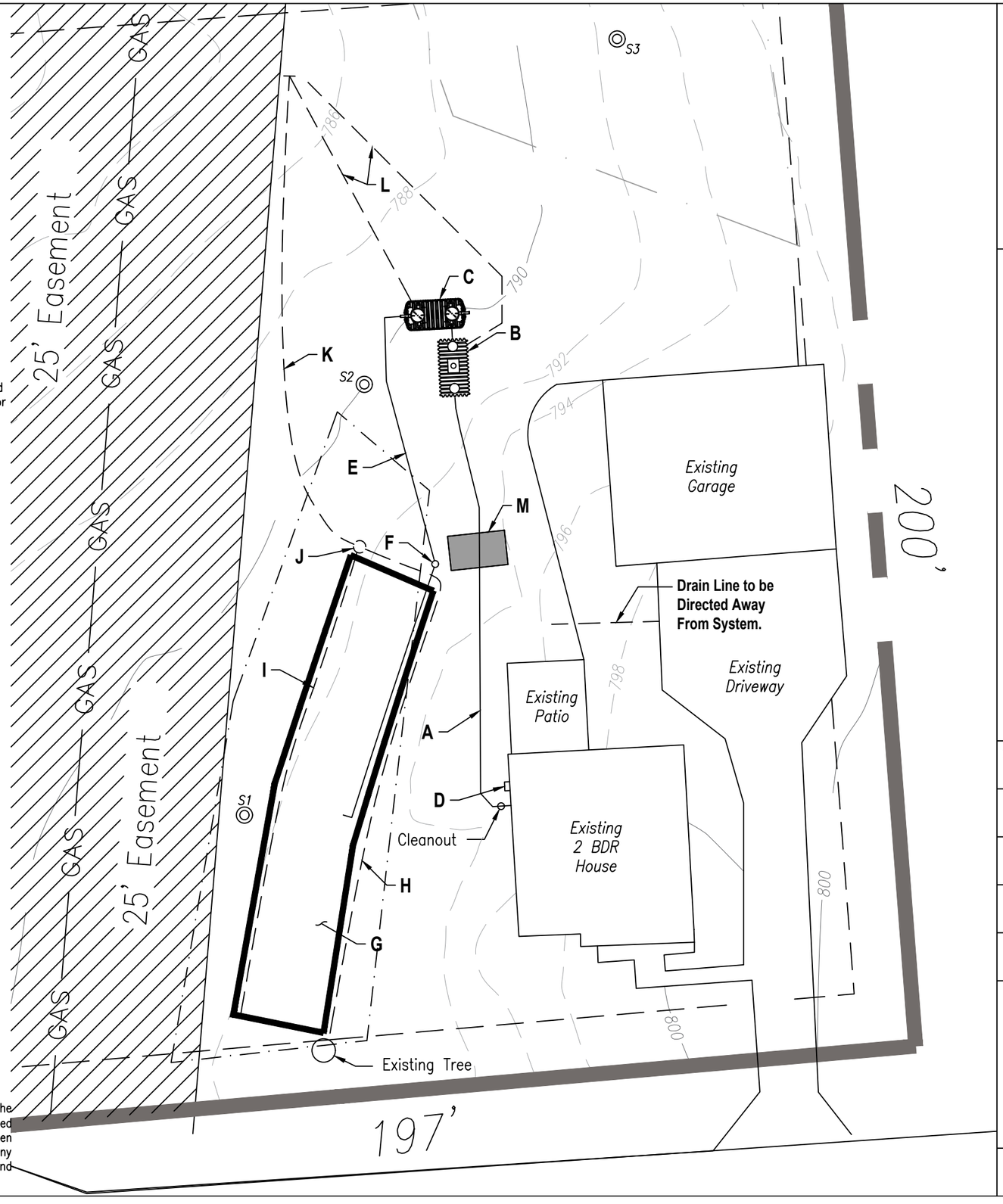

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Existing 2 Bedrooms. Public Water Supply.

Scale: As Noted

Drawn By: JWD

Design Date: 11/15/2018

Revision Number: 05

Revision Date: 02/16/2022

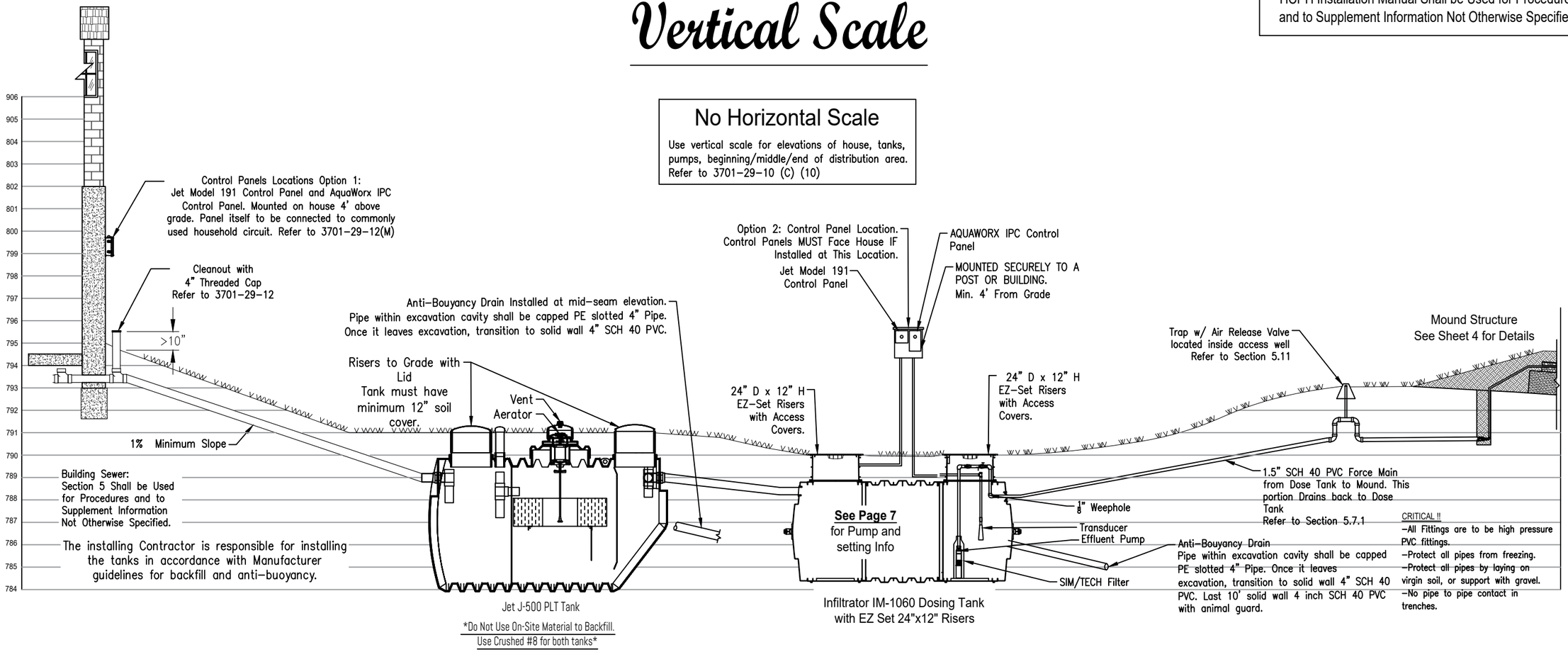
Drawing Number: 2 of 8

These Plans and 3701-29 Shall Dictate Design Specifics.
HCPH Installation Manual Shall be Used for Procedures
and to Supplement Information Not Otherwise Specified.

Vertical Scale

No Horizontal Scale

Use vertical scale for elevations of house, tanks, pumps, beginning/middle/end of distribution area. Refer to 3701-29-10 (C) (10)



Pretreatment and Dose Tank Information

Jet J-500 PLT Aerobic Treatment Unit

500 GPD Treatment Unit with Aeration
Pretreatment System and Components Approved By ODH

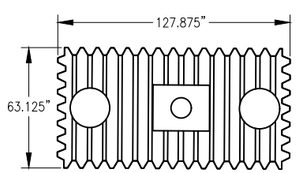
Overall height = 70.25" + Risers
Bottom of Inlet to bottom of tank = 59"
Bottom of outlet to bottom of tank = 56"
Total length = 123"
Total width = 62"

Must be Installed per Manufacturer Specifications

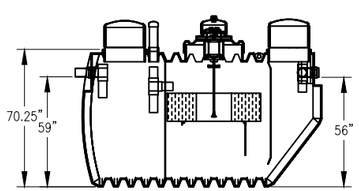
Infiltrator IM1060 Dose Tank

Single Compartment Dose Tank
Tank and Components are Approved by ODH

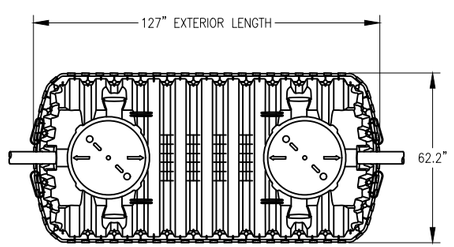
Overall height = 66.7"
Bottom of Inlet to bottom of tank = 47"
Bottom of outlet to bottom of tank = 44"
Total length = 127"
Total width = 62.2"



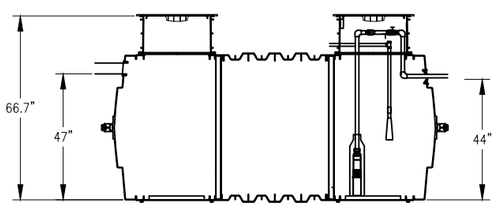
TOP VIEW



SIDE VIEW



TOP VIEW



SIDE VIEW

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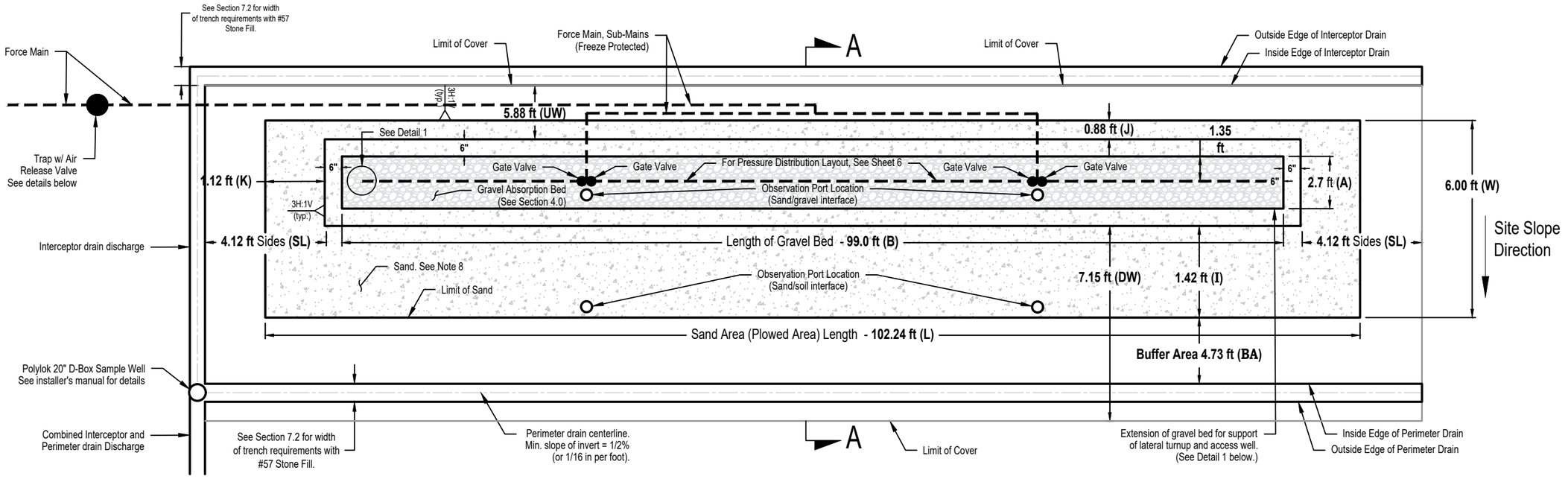
Scale: As Noted
Drawn By: JWD
Design Date: 11/15/2018
Revision Number: 05
Revision Date: 02/16/2022

Drawing Number: 3 of 8



Sloping Site Mound & Modified Mound Structure - General Plan

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.

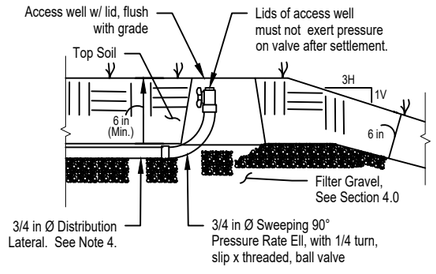
Refer to Page 5 for Mound Cross Section A-A.

(No Scale)

Details

Detail 1 - Lateral Cleanout

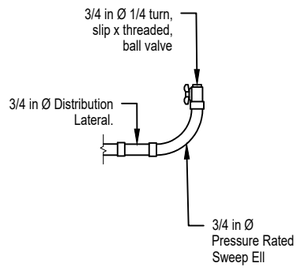
(No Scale)



Lateral Cleanout Setup

(No Scale)

Ø = Pipe Diameter



Trap With Air Release Valve

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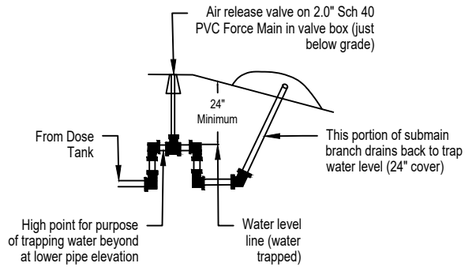

Notes:

1) Observation ports to be installed per Detail 1 & 2, Sheet 5.
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 6 for the Pressure Distribution layout detail.
5) Interceptor Drain and Perimeter Drain share a common discharge line.
6) Interceptor 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) Sub-main(s) are to be sloped at a minimum of 1% (1/8 in per ft) to promote drainage back towards the force main 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 the basal area 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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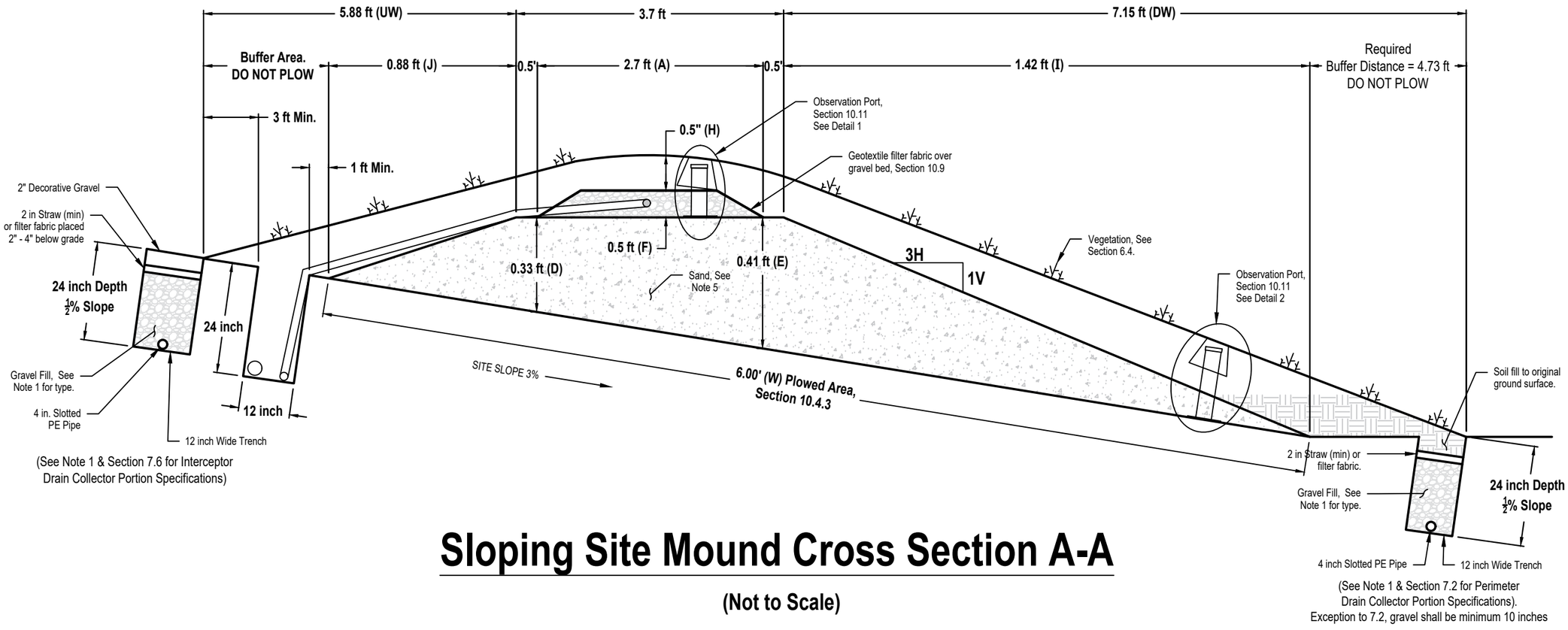
Revision Date: 02/16/2022



(See Note 1 & Section 7.6 for Interceptor Drain Collector Portion Specifications)

(See Note 1 & Section 7.2 for Perimeter Drain Collector Portion Specifications).
Exception to 7.2, gravel shall be minimum 10 inches

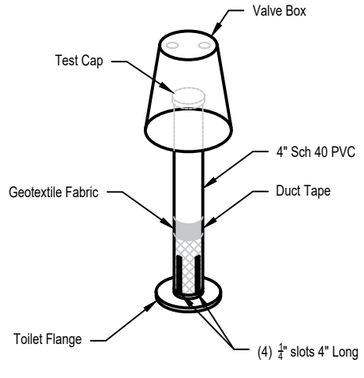
Sloping Site Mound Cross Section A-A

(Not to Scale)

ALL SECTION NOTATIONS REFERENCE THE HAMILTON COUNTY INSTALLER'S MANUAL

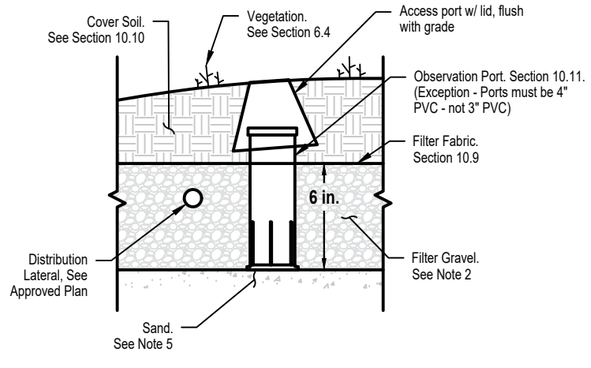
Observation Port

(No Scale)



Detail 1

(No Scale)



Detail 2

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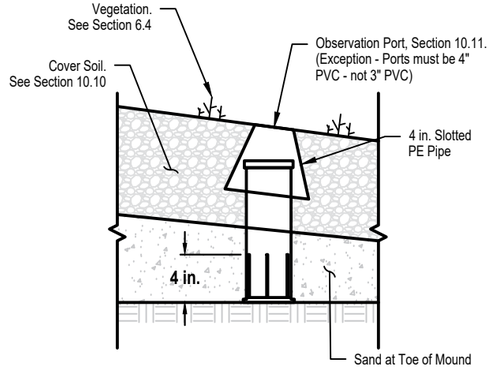

Notes:

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 sub-mains and 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 and sub-mains for drainback is 1% (1/8 inch per foot). All 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). 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.

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Drawn By: JWD
Design Date: 11/15/2018
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Revision Date: 02/16/2022

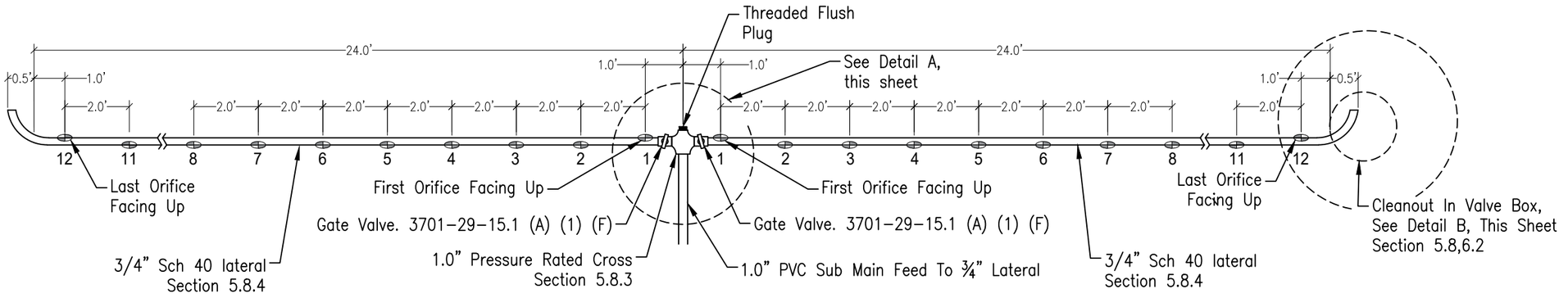
Drawing Number: 5 of 8

Overall Gravel Length: 99.0 Feet

Typical Lateral Detail (2 laterals shown) Showing 1 of 2 Lateral Sets

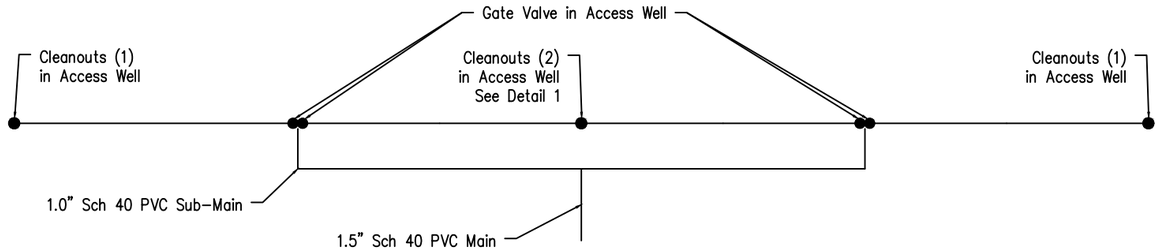
12 Orifices (1/8" Diameter) Per 24' Lateral

Not To Scale



Note: Orifices to be shielded by Sim/Tech Orifice Shields or equivalent

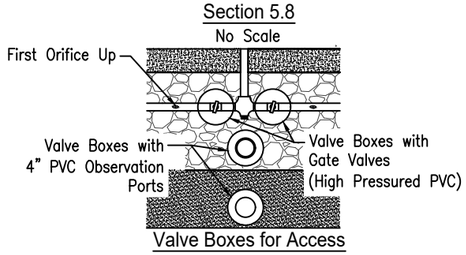
Note:
All pipe shall be schedule 40 PVC meeting ASTM D1785. All fittings and gate valves shall be pressure-rated meeting ASTM D2466.



Detail A

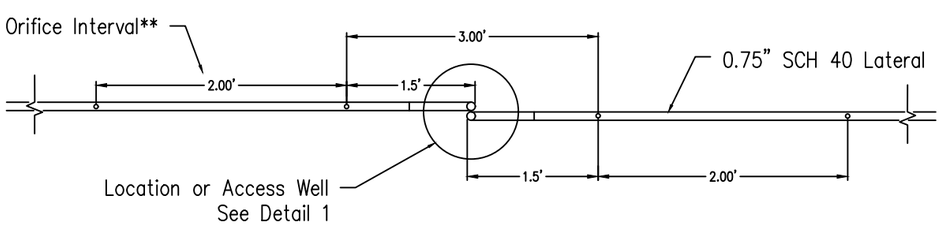
Manifold Observation Port Layout Detail

Section 5.8
No Scale



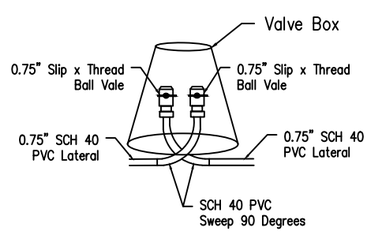
Valve Boxes for Access

Layout of Adjacent Laterals (At Inside Ends of Laterals)



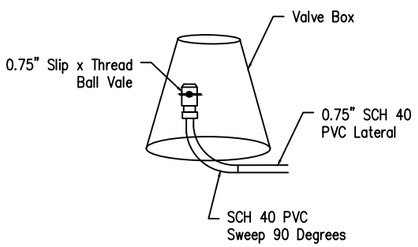
**All orifices except the first and last of each lateral face down.

Detail 1



Detail B

End Lateral Cleanouts



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Hamilton, OH 45013
(513)844-1717

Ray Blazer - (513) 922 - 7234
6986 Bluebird Drive Cincinnati, OH 45248
Green Township Hamilton County
Parcel #550-0290-0035-00, 0.465 Acres
Existing 2 Bedrooms. Public Water Supply.

Scale: As Noted

Drawn By: JWD

Design Date: 11/15/2018

Revision Number: 05

Revision Date: 02/16/2022

Drawing Number: 6 of 8

Pump Selection for a Pressurized System - Single Family Residence Project

6986 Bluebird Drive

Parameters

Discharge Assembly Size	1.50	inches
Transport Length	90	feet
Transport Pipe Class	40	
Transport Line Size	1.50	inches
Distributing Valve Model	None	
Max Elevation Lift	9	feet
Manifold Length	30	feet
Manifold Pipe Class	40	
Manifold Pipe Size	1.00	inches
Number of Laterals per Cell	4	
Lateral Length	24	feet
Lateral Pipe Class	40	
Lateral Pipe Size	0.75	inches
Orifice Size	1/8	inches
Orifice Spacing	2.0001	feet
Residual Head	5	feet
Flow Meter	None	inches
Fitting Friction Losses	5	feet

Calculations

Minimum Flow Rate per Orifice	0.43	gpm
Number of Orifices per Zone	48	
Total Flow Rate per Zone	20.9	gpm
Number of Laterals per Zone	4	
% Flow Differential 1st/Last Orifice	3.9	%
Transport Velocity	3.3	fps

Frictional Head Losses

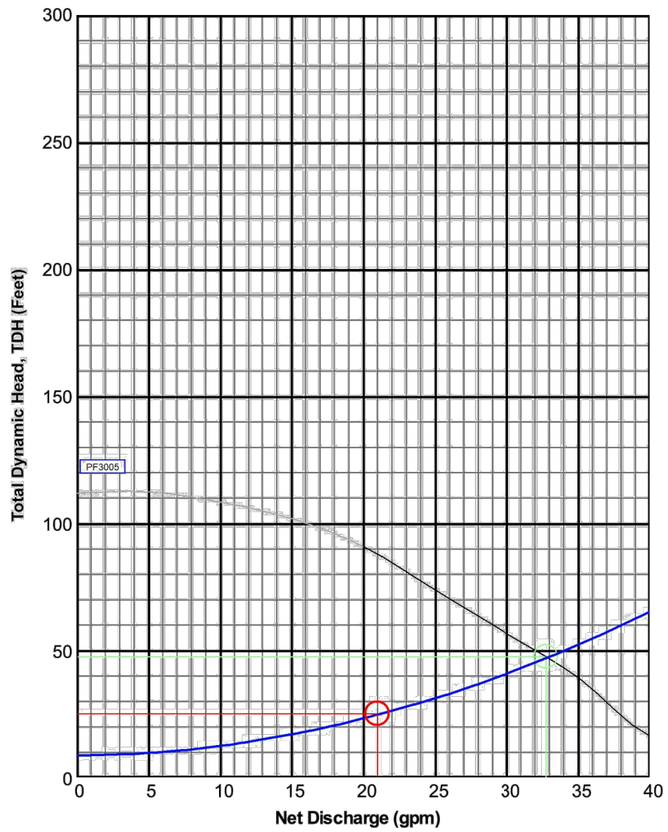
Loss through Discharge	1.3	feet
Loss in Transport	2.4	feet
Loss through Valve	0.0	feet
Loss in Manifold	1.8	feet
Loss in Laterals	0.5	feet
Loss through Flowmeter	0.0	feet
Fitting Friction Losses	5.0	feet

Pipe Volumes

Vol of Transport Line	9.5	gals
Vol of Manifold	1.3	gals
Vol of Laterals per Zone	2.7	gals
Total Volume	13.5	gals

Minimum Pump Requirements

Design Flow Rate	20.9	gpm
Total Dynamic Head	25.1	feet



PumpData

PF3005 High Head Effluent Pump
30 GPM, 1/2 HP
115/230V 1Ø 60Hz, 200V 3Ø 60Hz

Legend

System Curve:
Pump Curve:
Pump Optimal Range:
Operating Point:
Design Point:

Orenco Systems® Incorporated
Changing the Way the World Does Wastewater®

Pump Selected:
Orenco PF 3005 High Head
Orenco PF3005 High Head Effluent Pump Technical Details

- Minimum 24-Hour Run-Dry Capability with No Deterioration in Pump Life or Performance
- Liquid End Repair Kits Available for Better Long-Term Cost of Ownership
- Super Stainless Franklin Electric Motor, Rated for Continuous use and Frequent Cycling
- Type SOOW 600-V Motor Cable (suitable for Class I, Division 1 and Division 2 applications)
- Five-Year Warranty on Pump or Retrofit Liquid End from Date of Manufacture Against Defects in Materials or Workmanship
- 0.5 HP, 120 VAC, Single Phase, 10 FLA
- 2" FPT Discharge

Details:

Transducer: 26" from Bottom
High Water Alarm (Veto): 35" from Bottom
Reserve Volume: 308 gallons
Surge Volume: 238 gallons

Dosing Volumes:

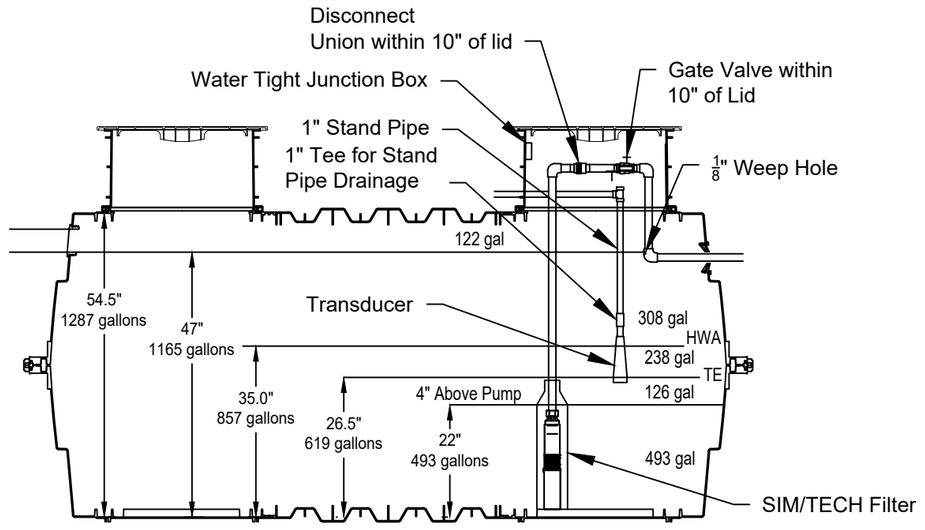
Minimum: 13.4 gallons plus field-verified drainback
Maximum: 60.00 gallons plus field-verified drainback

AquaWorx Settings:

Pump "On"/ Timer Enable: 1/2" (26.5" from Bottom of Tank)
Veto/ High Water: 8 1/2" (35.0" from Bottom of Tank)

Note:

Actual dose volume to be determined after time drawdown is completed and total drainback is calculated. Control panel timer settings are to be set at this time.



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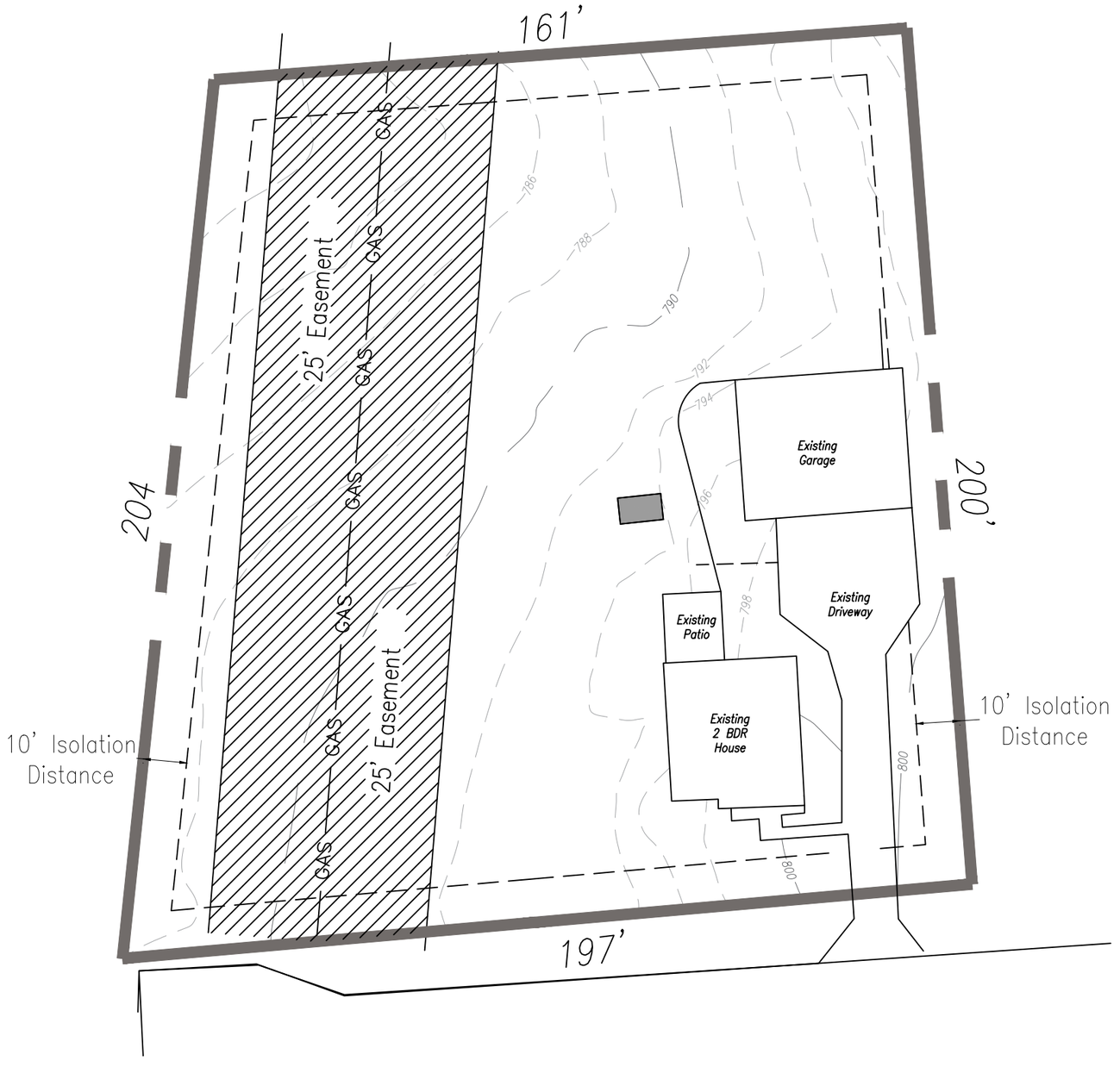
Protecting Your Septic System

Learn about your household sewage system. Obtain and keep a sketch of the system with a detailed record of repairs, pumping, inspections, and other maintenance activities.

- Have your household sewage system inspected and maintained regularly.
- Keep your septic tank cover accessible for inspection and cleaning. Install risers if necessary.
- Call a registered sewage system contractor or your local health department if you experience problems or if there are any signs of system failure.
- Always obtain required permits when making or allowing repairs to your system.
- Divert sources of water, like roof drains, footer drains, and sump pumps away from the system. Excess water saturates the soil leading to system failure.
- Keep a good vegetative cover over the system in order to help remove excess water and prevent erosion.
- Do Not allow anyone to drive or park anything over any part of the septic system.
- Never dig or build anything over your system. This includes hard surfaces such as concrete or asphalt.
- Conserve water to avoid overloading the system. Promptly repair leaky faucets or toilets, and install water saving devices.
- Don't use septic tank additives. These products usually do not help and can be harmful to the operation of your system.
- Eliminate or reduce the use of a garbage disposal. The additional waste produced by a garbage disposal will lead to extra maintenance requirements.
- Don't use you toilet or disposal as a trash can. Coffee grounds, dental floss, disposable diapers, kitty litter, sanitary napkins, tampons, cigarette butts, condoms, fat, grease, oil, automotive fluids and paper towels should never be disposed of in the system.
- Never pour chemicals or cleaners such as paints, varnishes, thinners and pesticides down the drain/toilet. Harsh chemicals can kill beneficial bacteria that treat wastewater.
- Never climb down into a septic tank. The natural treatment process in septic tanks produces toxic gases that can kill.



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