

## APPENDIX 3

### INTERIM MONITORING POINT LOCATIONS



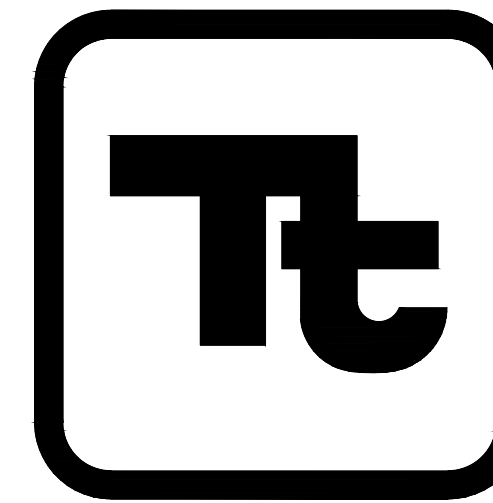
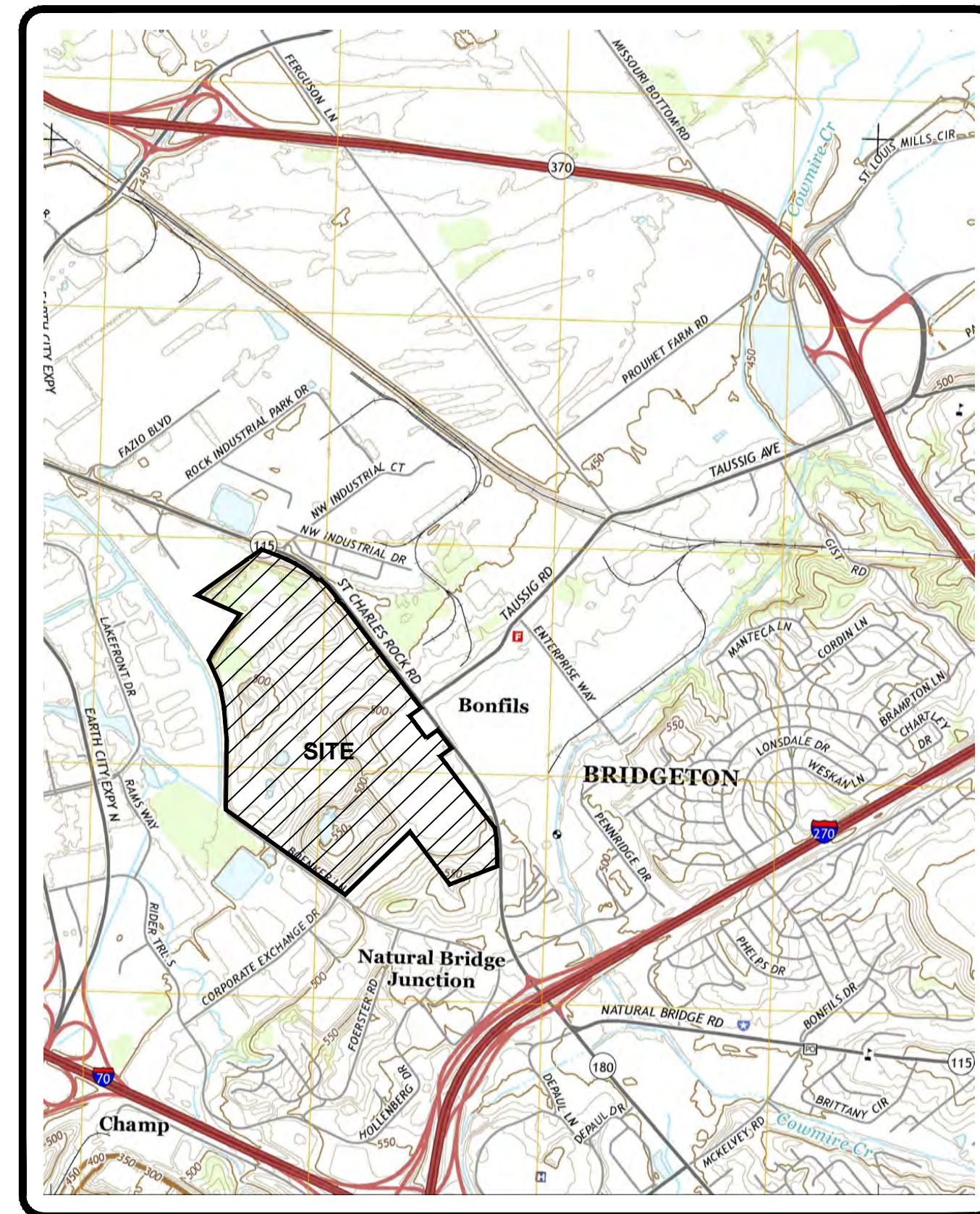
## APPENDIX 4

### PROPOSED CONSTRUCTION PLANS

# CONSTRUCTION PLANS FOR THE 2020 SOIL VAPOR EXTRACTION SYSTEM

PREPARED FOR  
**BRIDGETON LANDFILL, LLC.**  
BRIDGETON, MISSOURI

NOVEMBER 2020



**TETRA TECH**

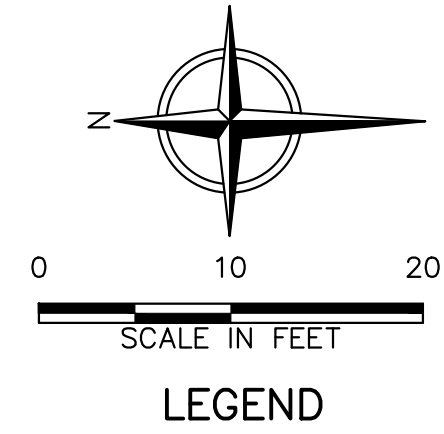
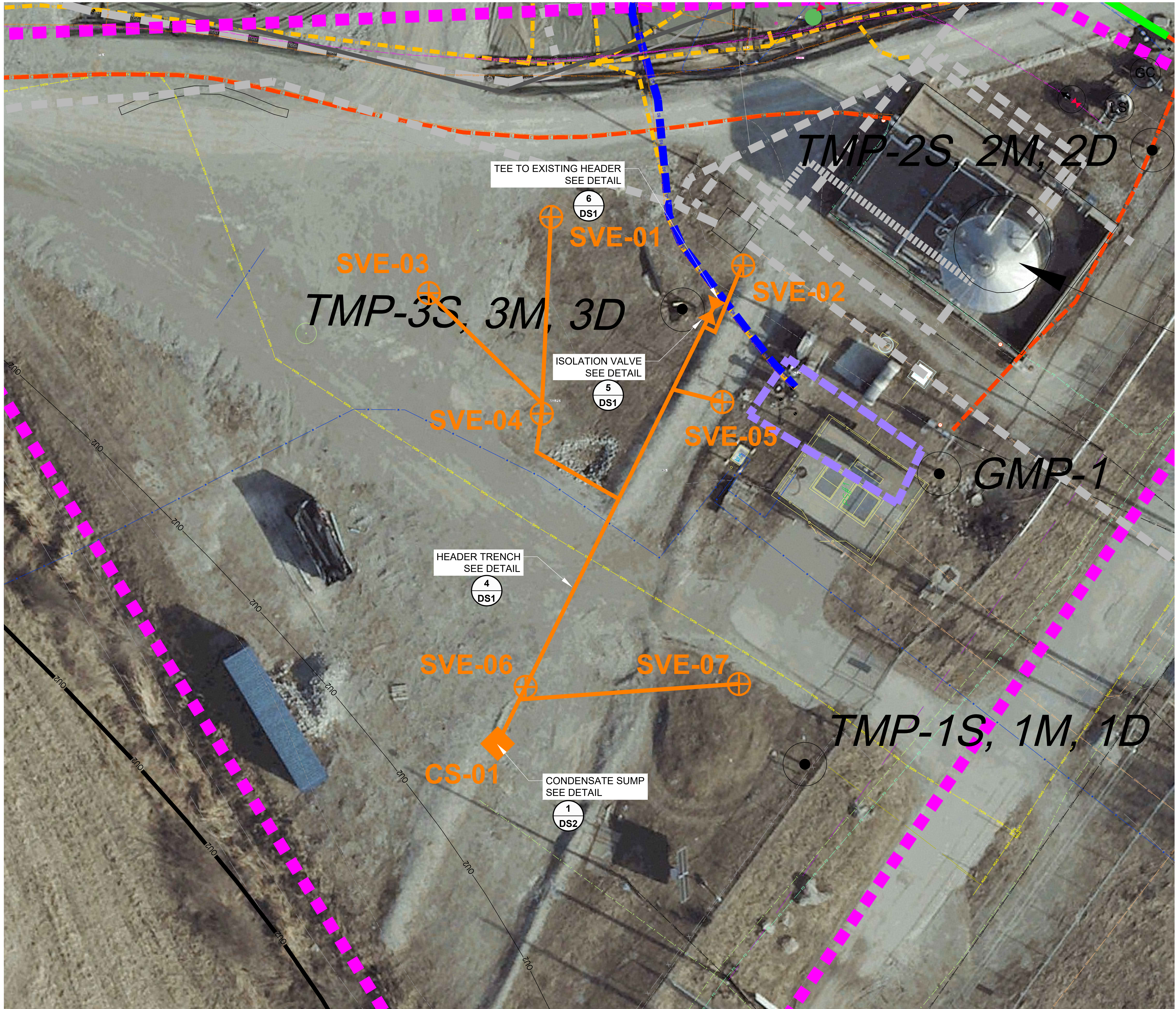
4200 CANTERA DRIVE  
SUITE 102  
WARRENVILLE, ILLINOIS 60555  
Tel: (630) 633-5519  
Fax (630) 791-9003

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1	PROPOSED SVE LAYOUT
DS1	DETAILS
DS2	DETAILS

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- WORK PLAN AREA
- SVE-07 PROPOSED SVE WELLHEAD
- PROPOSED SVE HEADER
- PROPOSED HEADER ISOLATION VALVE
- CS-01 PROPOSED CONDENSATE PUMP

- NOTES:
1. EXISTING CONTOURS BASED ON AN AERIAL SURVEY PERFORMED BY COOPER AERIAL SURVEYS CO. ON DECEMBER 1, 2017.
  2. AS-BUILT GAS COLLECTION AND CONTROL SYSTEM DESIGN TAKEN FROM FEZTOR ENGINEERING DRAWING TITLED "LFG INFRASTRUCTURE - 2018," DATED 11/20/2018.
  3. ALL LINES TO INCLUDE AIR AND FORCE MAIN PER ATTACHED DETAILS.
  4. FEATURES, CONTOURS, AND ELEVATIONS OF THESE BASE MAPS ARE APPROXIMATE INDICATIONS OF CURRENT AND FUTURE CONDITIONS. CONTRACTOR SHALL VERIFY THE ACTUAL LOCATIONS OF THESE ELEMENTS PRIOR TO, AND DURING CONSTRUCTION, AND SHALL FINALIZE THE GAS SYSTEM LOCATIONS TO ACCOMMODATE FINAL FIELD CONDITIONS, AS APPROVED BY THE OWNER/ENGINEER.

**FOR PERMITTING PURPOSES ONLY**

1" = 1/2" = 0'  
FILE: S:\PROJECTS\BRIDGETON\_LANDFILL\DWG\2020\2020-2021\2020-2021.dwg LAYOUT: 2021 USER: NWA\NWA.DWG NO. 05, 2020 - 8:27am

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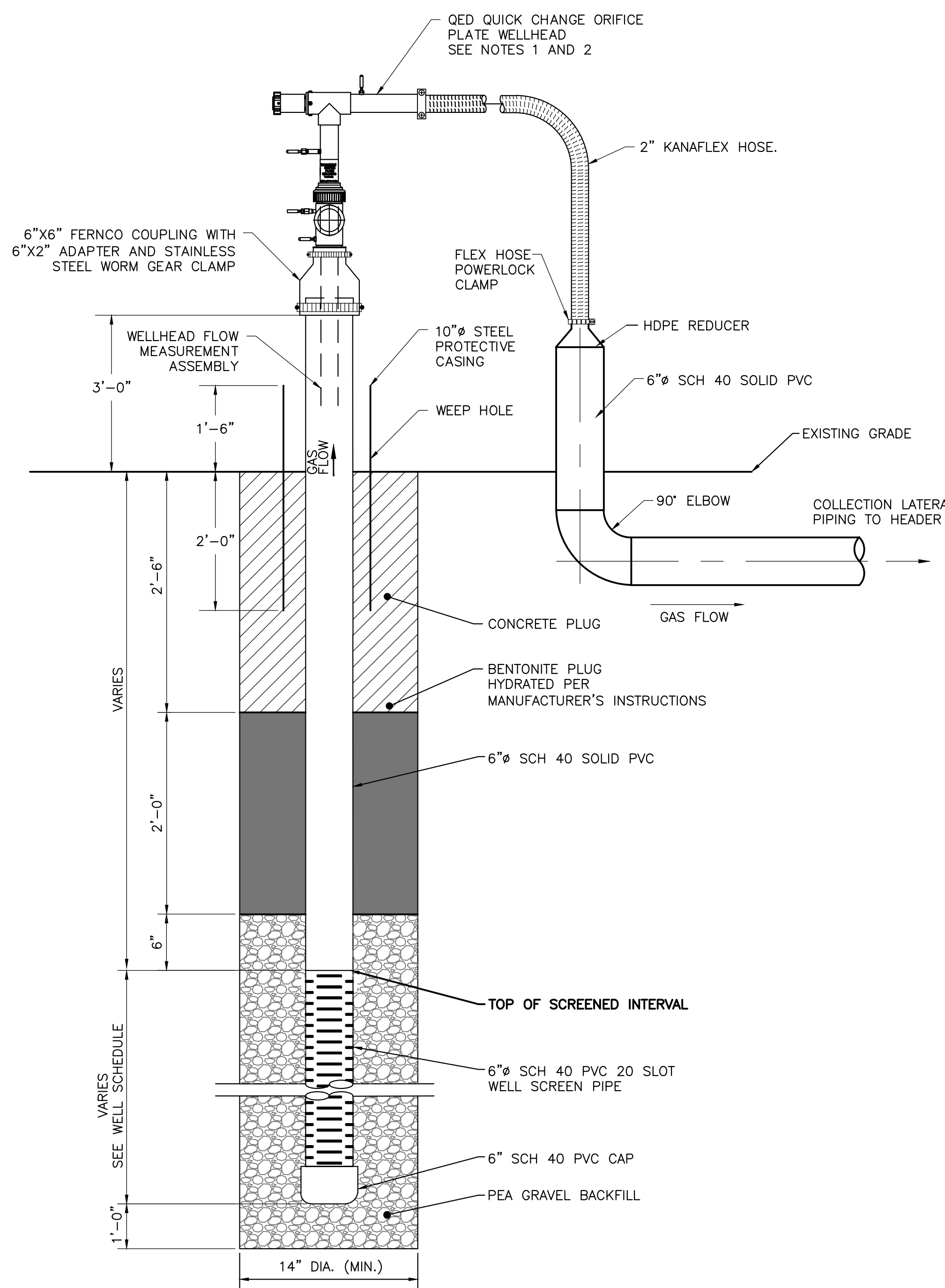
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		DRAWN BY	TAB	CHECKED BY	TAB	APPROVED BY



BRIDGETON LANDFILL, LLC.  
BRIDGETON LANDFILL  
BRIDGETON, MISSOURI

**SOIL VAPOR EXTRACTION SYSTEM  
PROPOSED SVE LAYOUT**

SHEET NO.  
**1**  
PROJECT NO.  
4201603

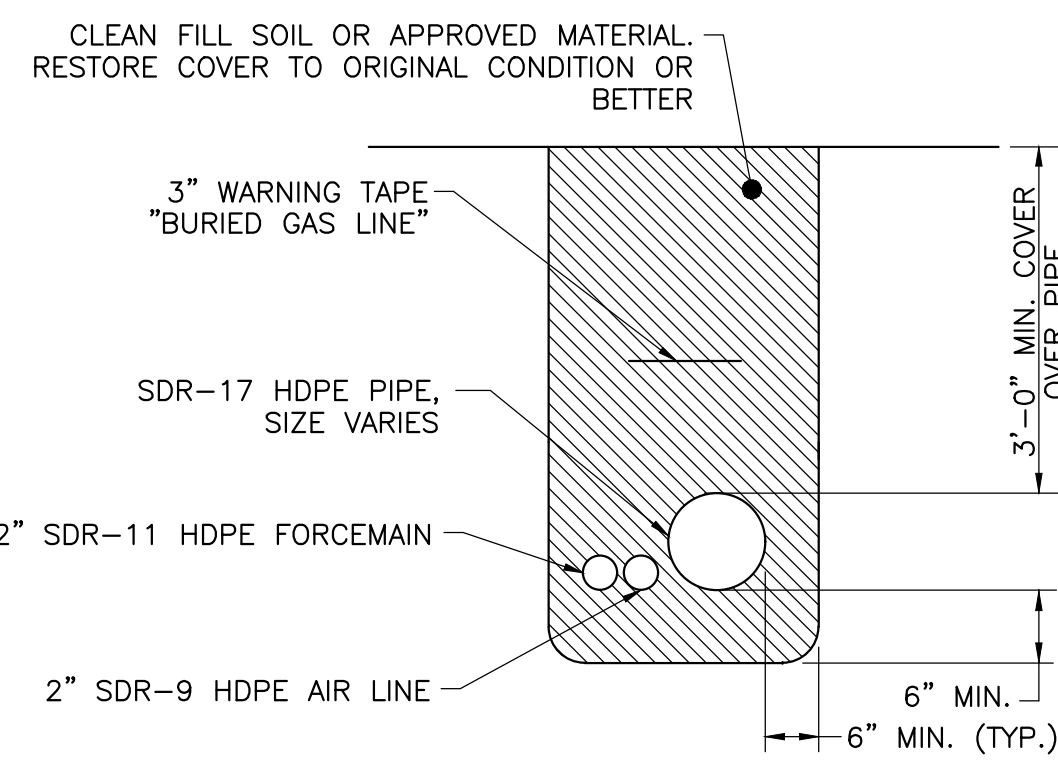


6"Ø PERIMETER SINGLE CASING EXTRACTION WELL

DETAIL 1  
SCALE: NOT TO SCALE DS1

NOTE:

- INSTALL WELL USING 10-1/4" HSA OR APPROVED EQUAL.
- WELL TO BE DRILLED TO THE TOP OF LOCAL BEDROCK. SEE WELL SCHEDULE FOR PROJECTED DRILLING AND COMPLETION DEPTHS.
- WELLHEAD ASSEMBLY SHOWN REPRESENTS QED ORIFICE PLATE WELLHEAD. CONTRACTOR TO VERIFY OWNER PREFERENCE IF NEW WELLHEADS NEED TO BE SUPPLIED AND INSTALLED.



HEADER TRENCH OUTSIDE THE APPROXIMATE LIMITS OF WASTE

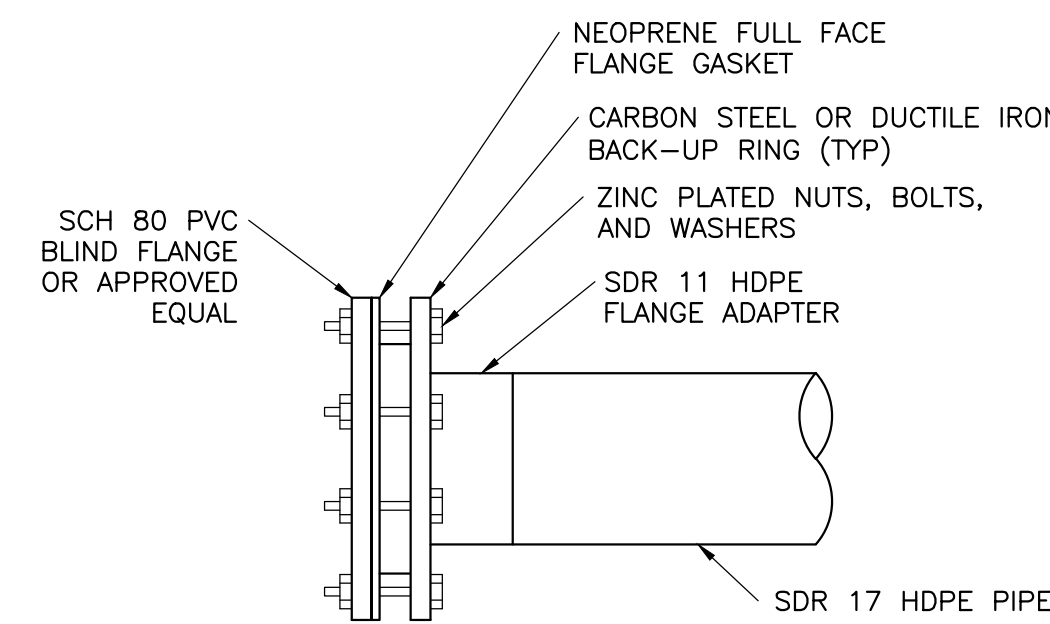
DETAIL 4  
SCALE: NOT TO SCALE DS1

NOTES:

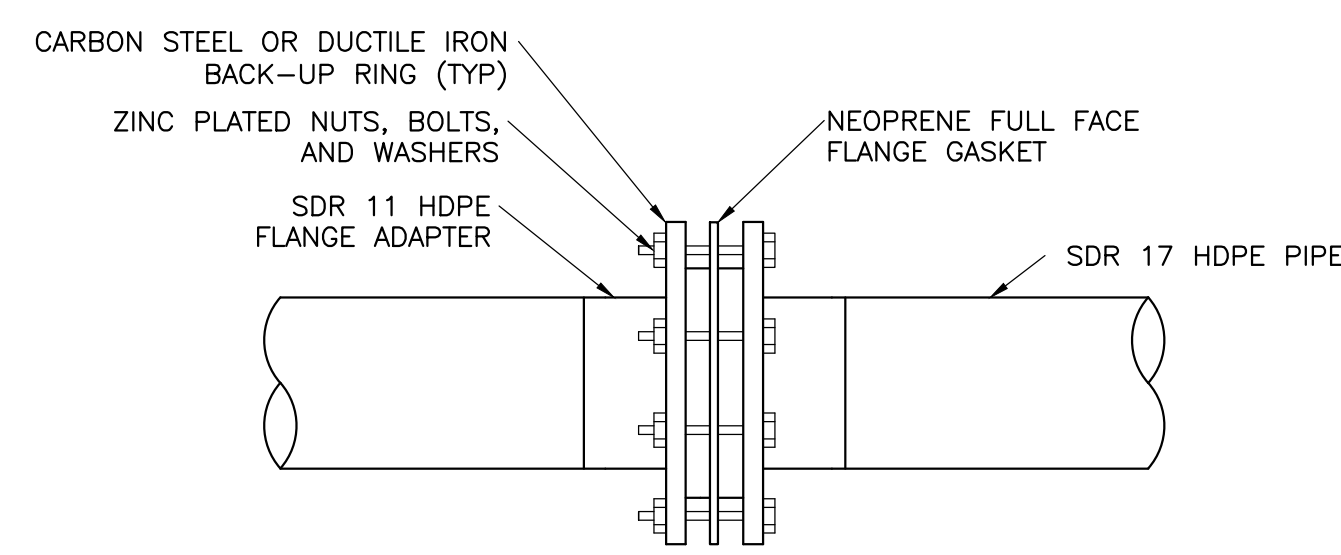
- COMPACT BACKFILL WITH VIBRATORY PLATE OR EQUAL.
- IN AREAS WHERE WASTE IS ENCOUNTERED OUTSIDE THE APPROXIMATE LIMITS OF WASTE, THE TOP 2- FEET OF BACKFILL SHALL BE PLACED IN MAXIMUM 12-INCH, WELL COMPACTED LIFTS.
- SEED, FERTILIZE, AND MULCH ALL DISTURBED AREAS.
- FORCEMAIN PIPE TO HAVE WHITE STRIPE MARKING. ALL FITTINGS FOR FORCEMAIN PIPE TO BE HDPE SDR-11. FORCEMAIN TO BE DUAL CONTAINED WHEN INSTALLED OUTSIDE LIMITS OF WASTE.
- AIR LINE TO HAVE BLUE STRIPE MARKING. ALL FITTINGS FOR AIR LINE PIPE TO BE HDPE SDR-9.
- THE NUMBER AND TYPES OF PIPES INSTALLED IN THE TRENCH MAY VARY. SEE SITE PLAN.

NOTE:

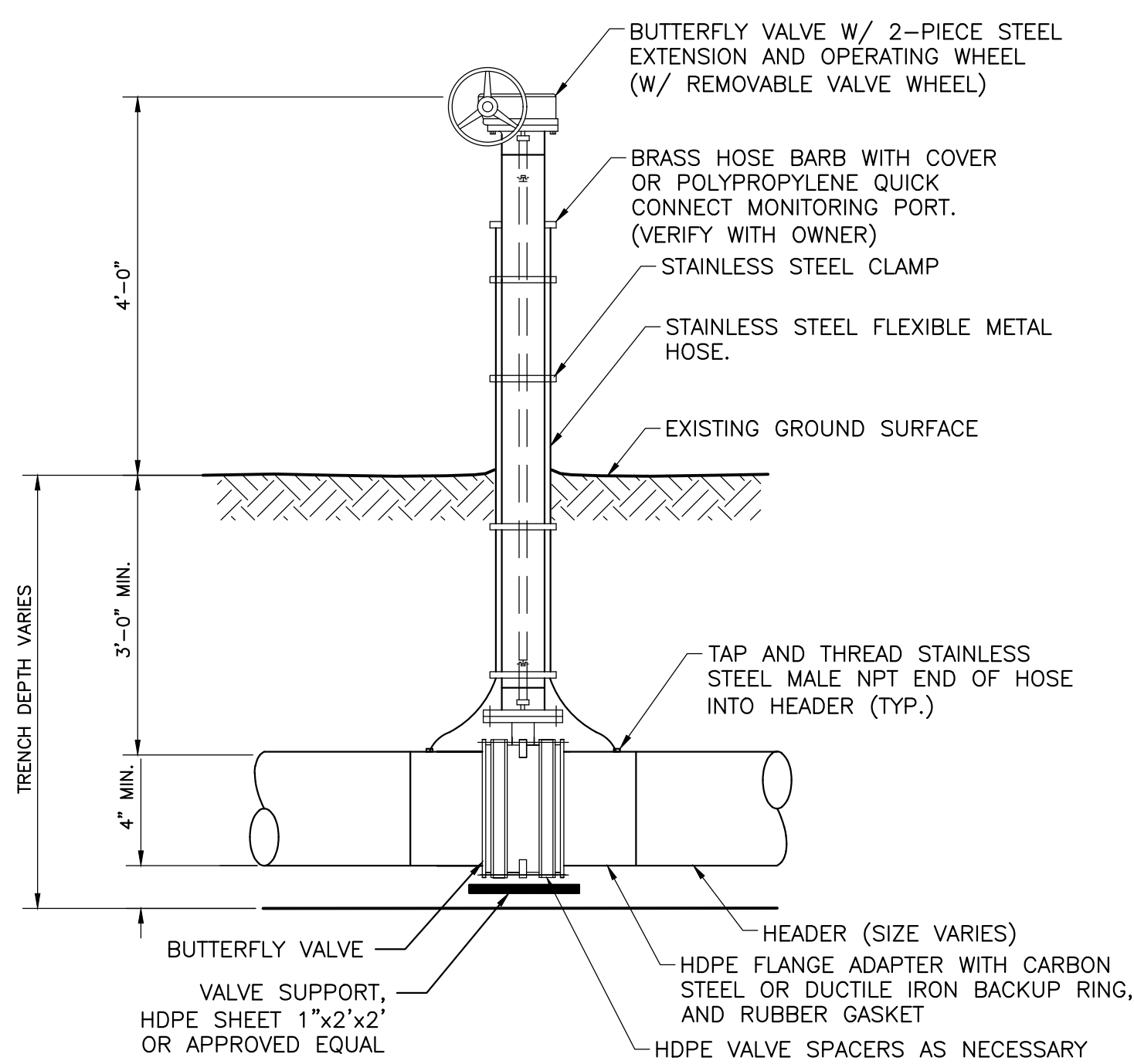
- DETAILS ARE TYPICAL AND MAY VARY TO ACCOMMODATE FIELD CONDITIONS AND LOCATIONS AT THE TIME OF INSTALLATION.



TYPICAL BLIND FLANGE  
DETAIL 3  
SCALE: NOT TO SCALE DS1



TYPICAL FLANGE CONNECTION  
DETAIL 2  
SCALE: NOT TO SCALE DS1



ISOLATION VALVE

DETAIL 5  
SCALE: NOT TO SCALE DS1

NOTES:

- THOROUGHLY COAT ENTIRE SURFACE OF BOLTS, WASHERS, NUTS, AND BACKUP RINGS W/ POLYCOAT RUBBERIZED PRIMER, OR EQUAL, AFTER TIGHTENING BOLTS. COATING SHALL HAVE NO "HOLIDAYS", OR GAPS IN ITS APPLICATION.
- WRAP FLANGE IN PLASTIC WRAP PRIOR TO BACKFILLING.

PROPOSED WELL SCHEDULE - NOT FOR DRILLING

Bridgeton Landfill  
2020 SVE System Construction  
10/5/2020  
Well Schedule

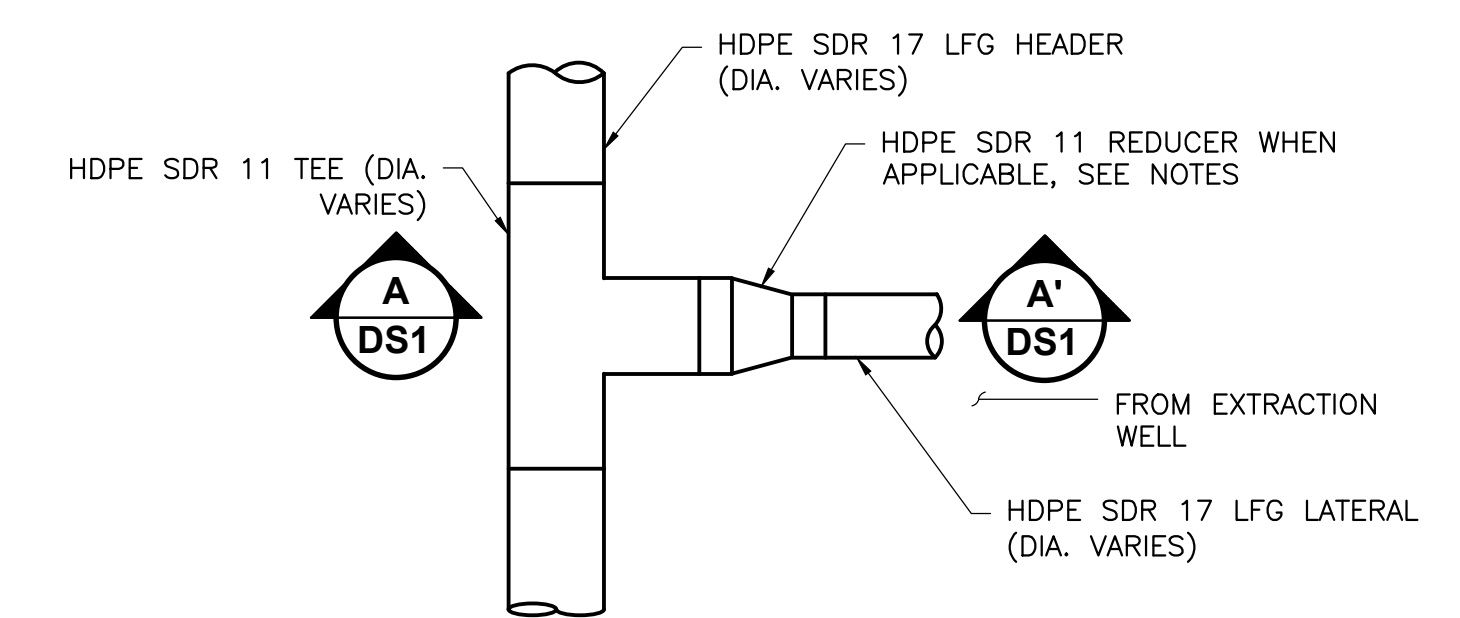
WELL I.D.	NORTHING (FT)	EASTING (FT)	APPROX. ELEVATION (FT)		BOREHOLE DEPTH (FT)	PIPE LENGTH (FT)			THICKNESS OF GRAVEL PACK (FT)	
			GROUND SURFACE	BEDROCK		PERFORATED	SOLID WALL	ABOVE GRADE RISER		
SVE-01	1,066,961	515,301	460	426	34	28	5	3	29.5	
SVE-02	1,066,912	515,288	457	425	32	26	5	3	27.5	
SVE-03	1,066,992	515,281	460	425	35	29	5	3	30.5	
SVE-04	1,066,963	515,250	456	422	34	28	5	3	29.5	
SVE-05	1,066,917	515,254	457	425	32	26	5	3	27.5	
SVE-06	1,066,967	515,180	455	415	40	34	5	3	35.5	
SVE-07	1,066,912	515,181	455	413	42	36	5	3	37.5	
<b>TOTAL</b>						<b>249</b>	<b>207</b>	<b>35</b>	<b>21</b>	<b>218</b>

- EXISTING GROUND ELEVATIONS BASED ON GEOPROBE LOG SURVEY, SOIL GAS MONITORING INVESTIGATION REPORT APPENDIX 4, 08/21/2020.
- BEDROCK ELEVATIONS BASED ON GEOPROBE LOG SURVEY, SOIL GAS MONITORING INVESTIGATION REPORT APPENDIX 4, 08/21/2020.
- DEPTHS MAY BE MODIFIED TO ACCOMMODATE ACTUAL GROUND AND BEDROCK ELEVATIONS DETERMINED AT THE TIME OF CONSTRUCTION.

Signatures:

Design Firm QA/QC Reviewer: \_\_\_\_\_ Firm: Tetra Tech \_\_\_\_\_ Date: \_\_\_\_\_  
 Design Firm Project Manager: \_\_\_\_\_ Firm: Tetra Tech \_\_\_\_\_ Date: \_\_\_\_\_  
 Environmental Manager: \_\_\_\_\_ Firm: Bridgeton Landfill, LLC. \_\_\_\_\_ Date: \_\_\_\_\_  
 CQA Inspector: \_\_\_\_\_ Firm: \_\_\_\_\_ Date: \_\_\_\_\_  
 Surveyor: \_\_\_\_\_ Firm: \_\_\_\_\_ Date: \_\_\_\_\_  
 Driller: \_\_\_\_\_ Firm: \_\_\_\_\_ Date: \_\_\_\_\_

Under no circumstances shall drilling activities begin without providing the above signatures. Any changes to well locations or depths shall require these signatures to be obtained again.



LFG LATERAL TIE-IN WITH TEE

DETAIL 6  
SCALE: NOT TO SCALE DS1

NOTES:

- MOLDED HDPE TEES SHALL BE INSTALLED FOR ALL TIE-INS OF LATERALS TO HEADER 12"Ø AND SMALLER. TEE SHALL BE ANGLED TO MAINTAIN SLOPE INTO THE HEADER AS SHOWN IN SECTION VIEW.
- CONSECUTIVE SIZE REDUCERS SHALL BE USED TO TRANSITION FROM THE MOLDED TEE TO THE LFG LATERAL. FOR EXAMPLE, TO TRANSITION FROM A 12" TEE, A 12"x10" REDUCER, 10"x8" REDUCER, AND 8"x6" REDUCER SHALL BE INSTALLED.
- 6" MIN. OF BEDDING SHALL BE PLACED BELOW EACH TEE. THE BEDDING SHALL BE INSTALLED SO IT EXTENDS 3' MIN. IN EACH DIRECTION OF THE TEE. BEDDING SHALL BE SLIGHTLY MOISTENED AND HAND-TAMPED PROVIDING SUPPORT TO ALL POINTS OF THE TEE. CLEAN, GRADED SOIL SHALL BE HAND-TAMPED ABOVE TEE (1' MIN.) BEING CAREFUL TO ELIMINATE VOIDS.

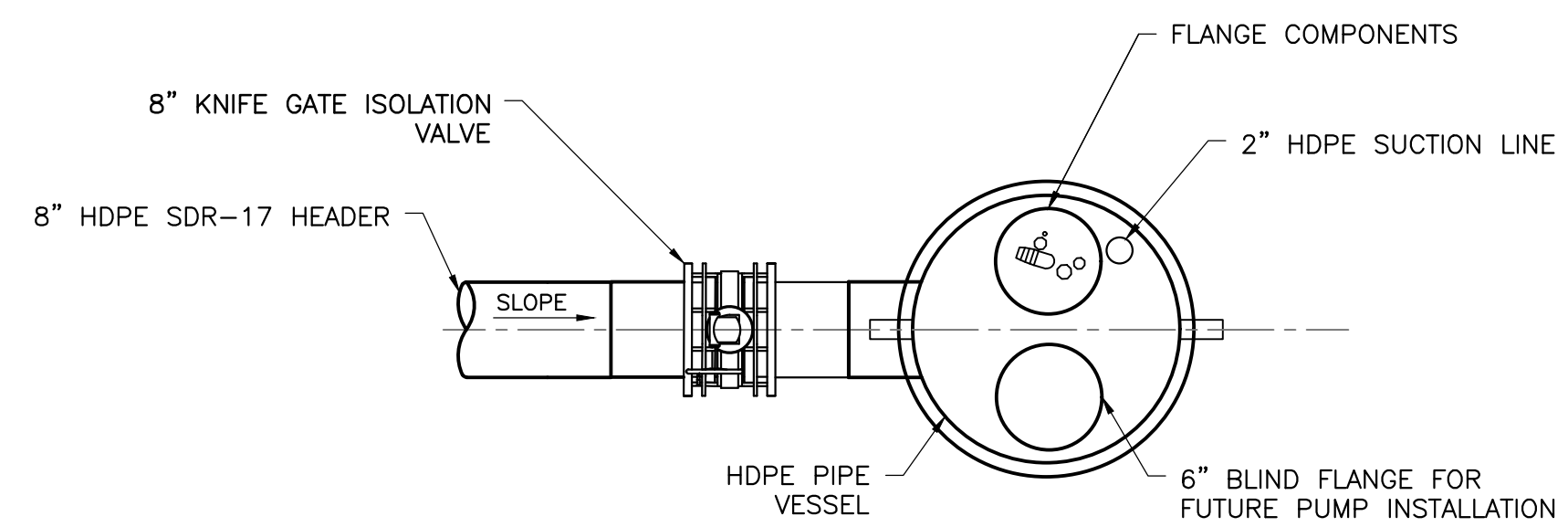
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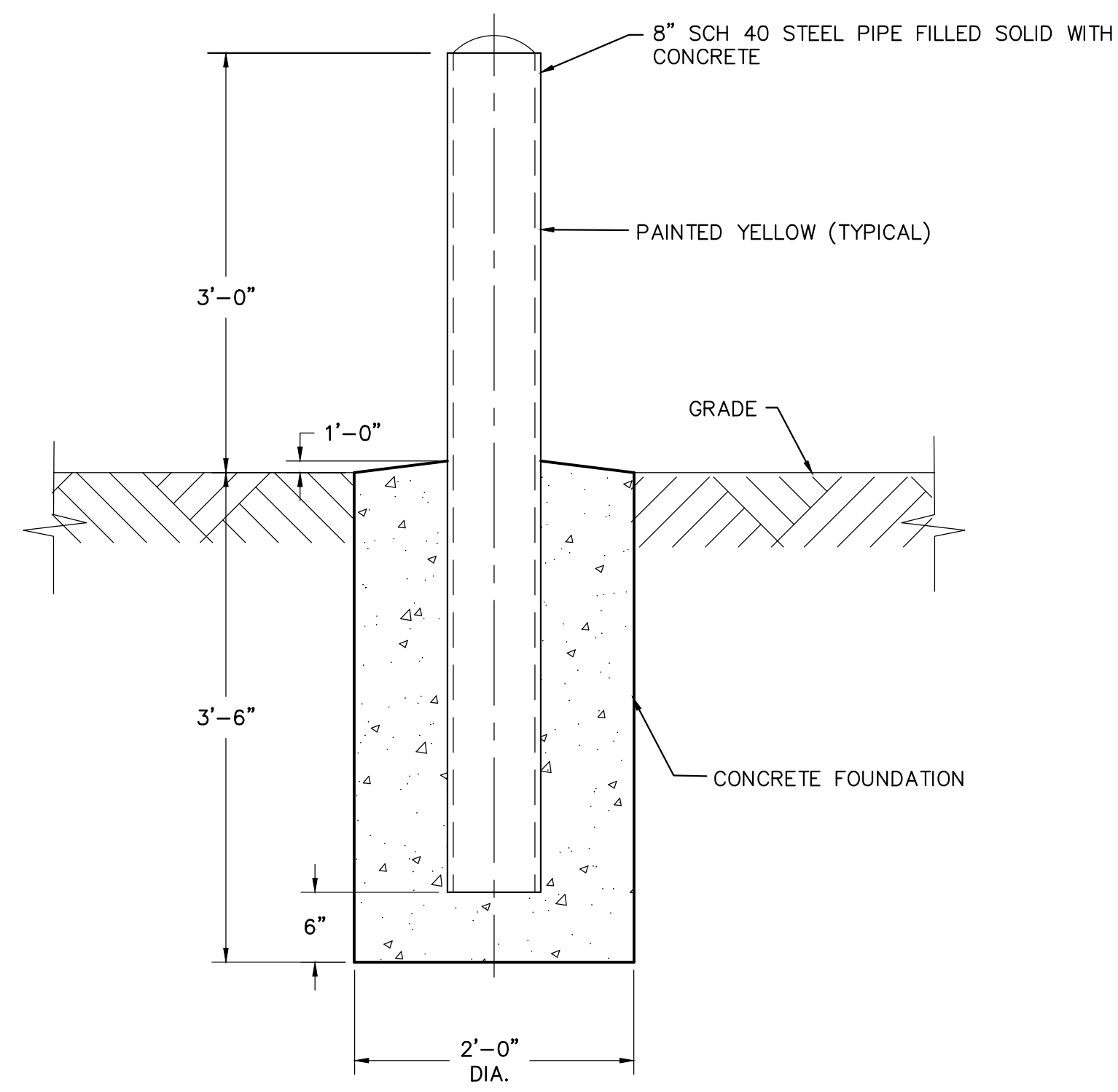


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BRIDGETON, MISSOURI  
SOIL VAPOR EXTRACTION SYSTEM  
DETAILS

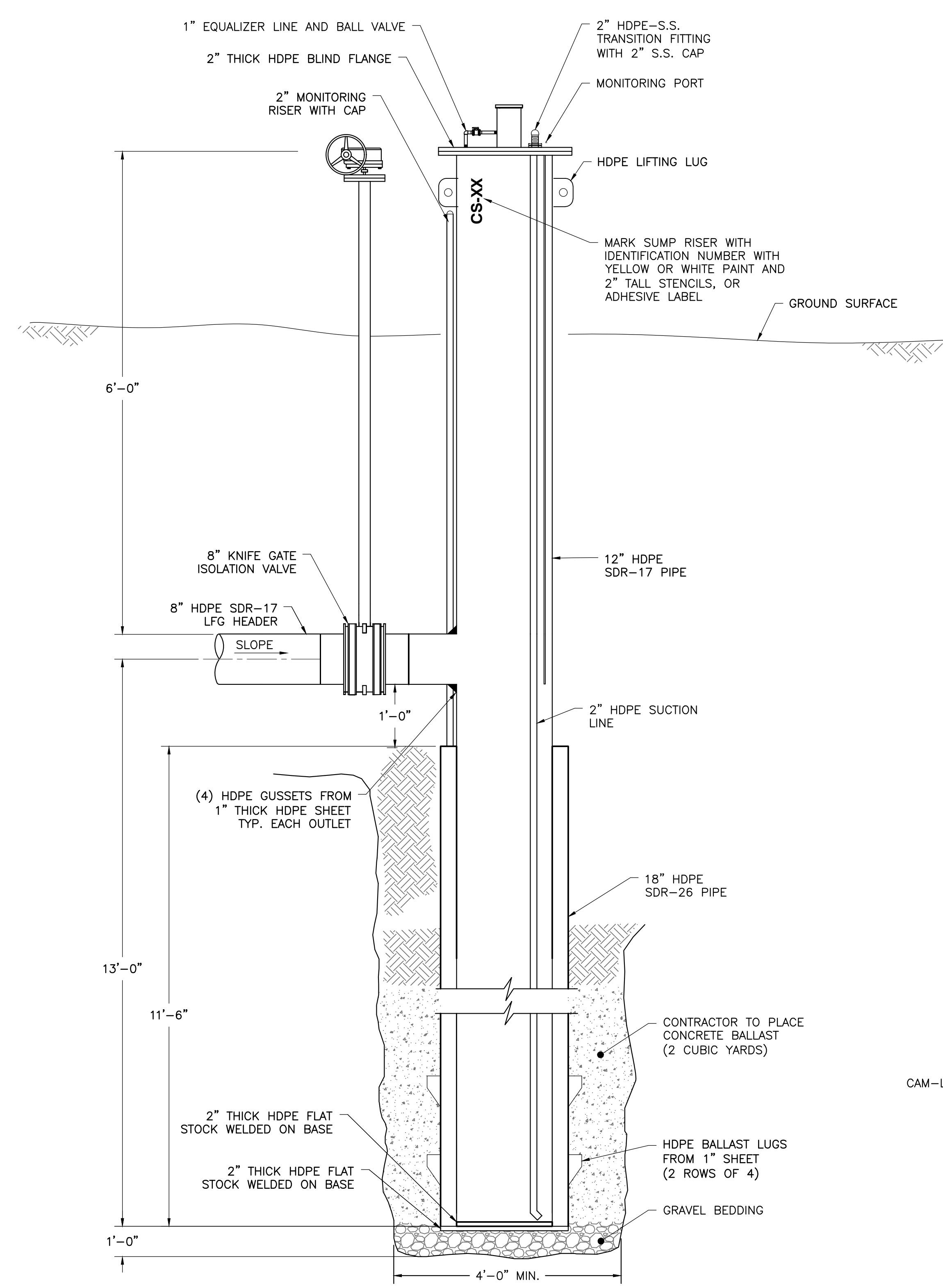
SHEET NO.  
**DS1**  
PROJECT NO.  
4201603



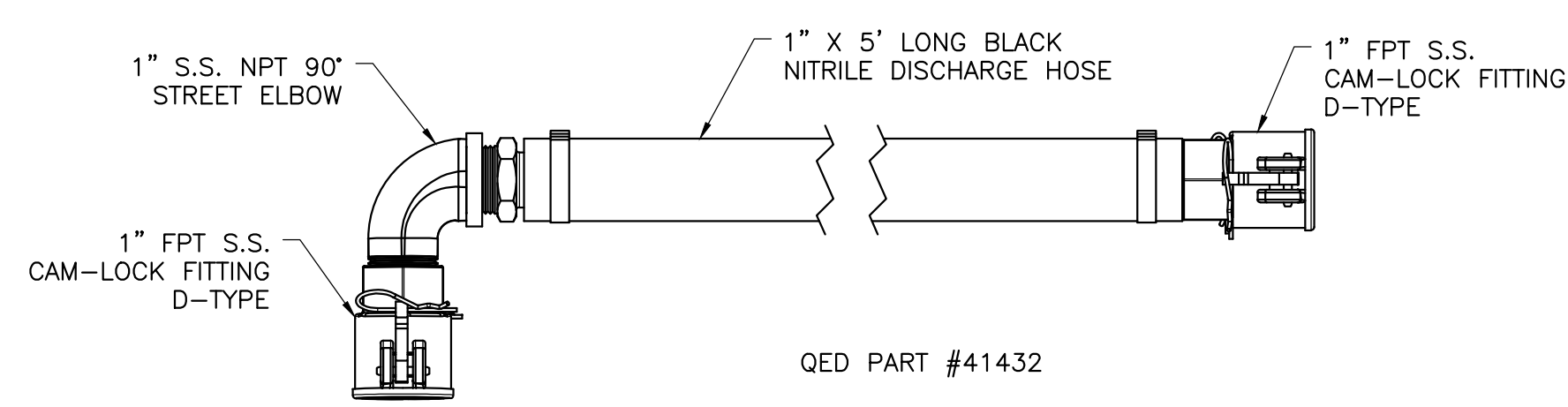
**TOP VIEW**



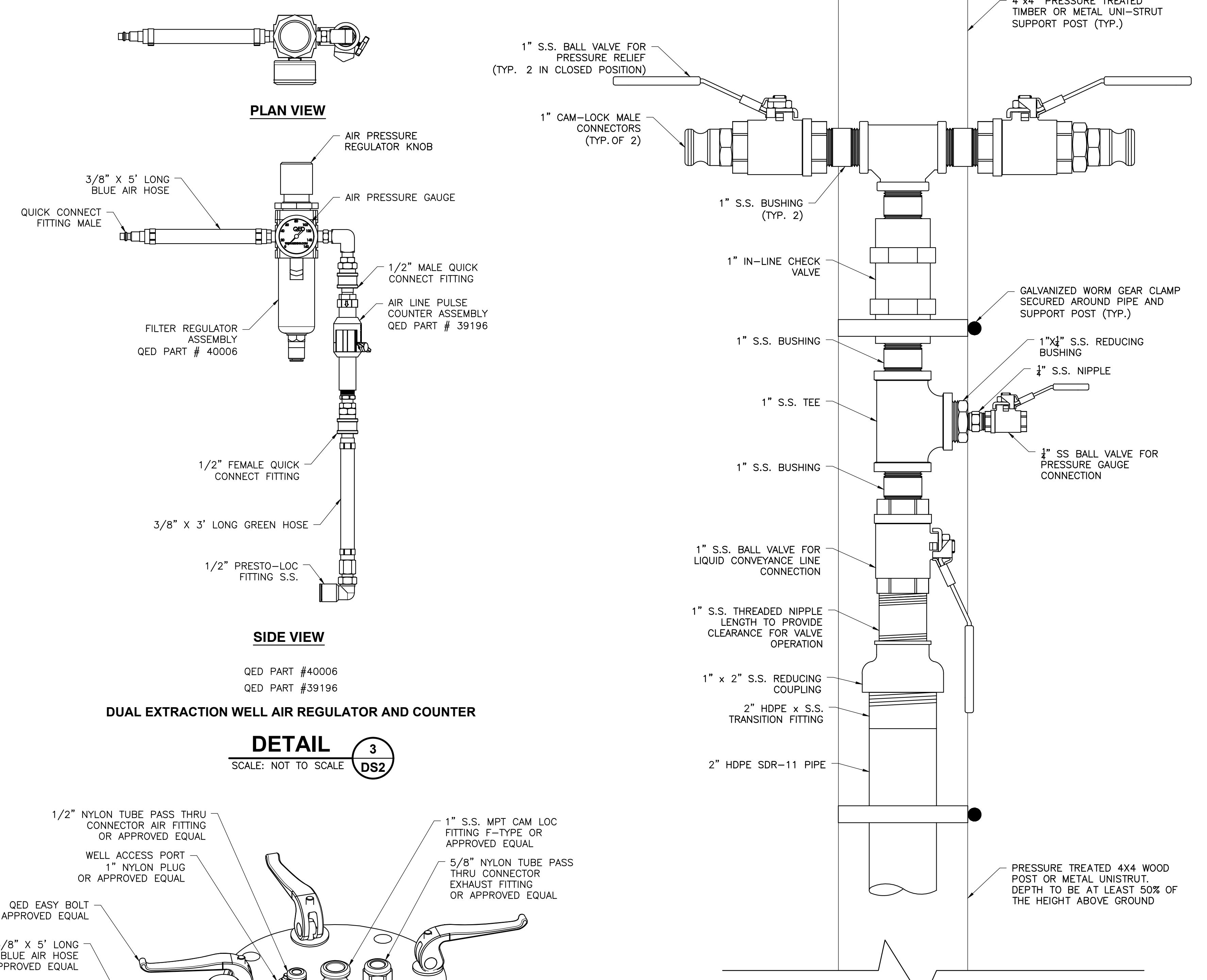
**BOLLARD DETAIL 2**  
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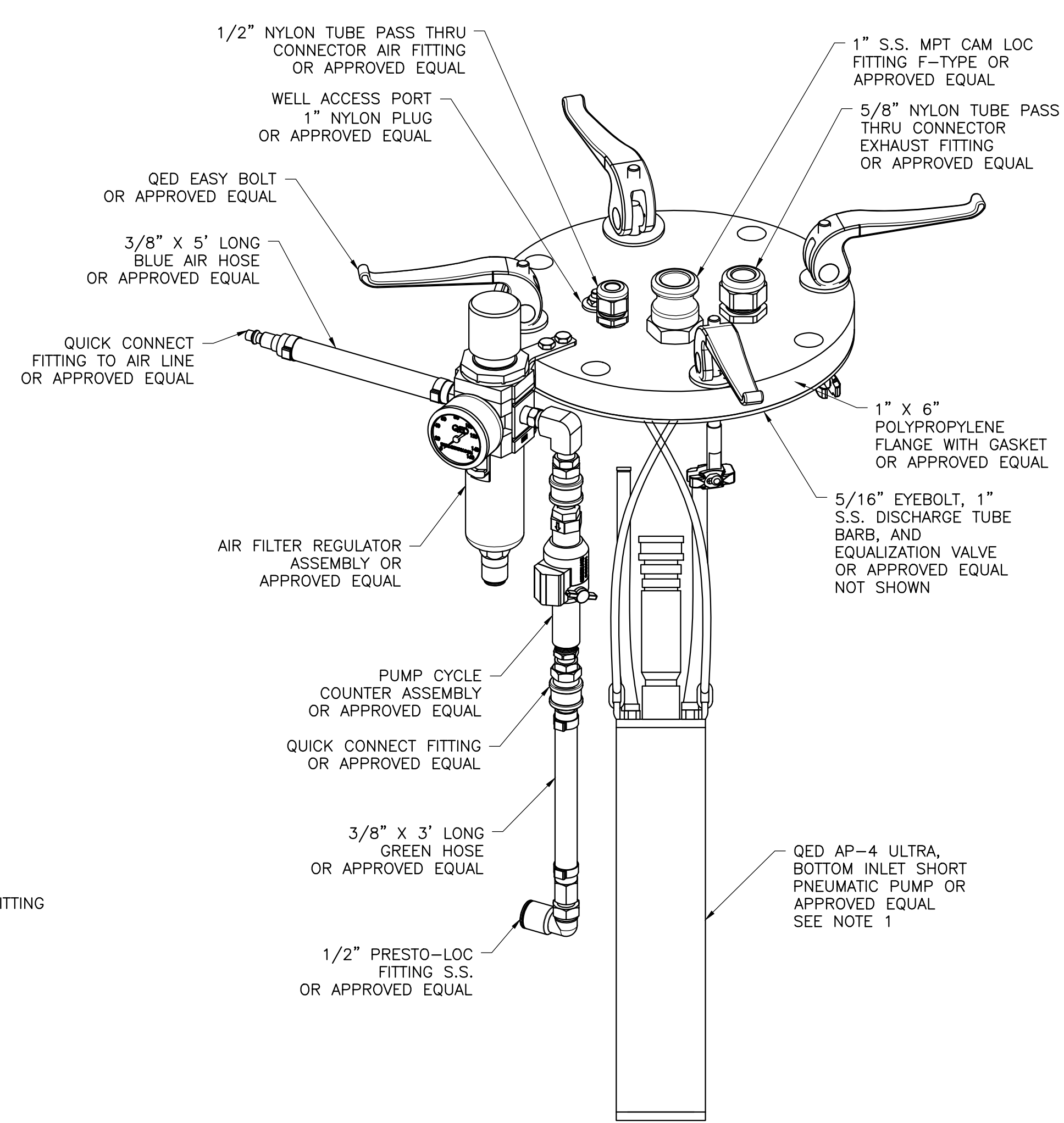
**CONDENSATE SUMP DETAIL 1**  
SCALE: NOT TO SCALE DS2



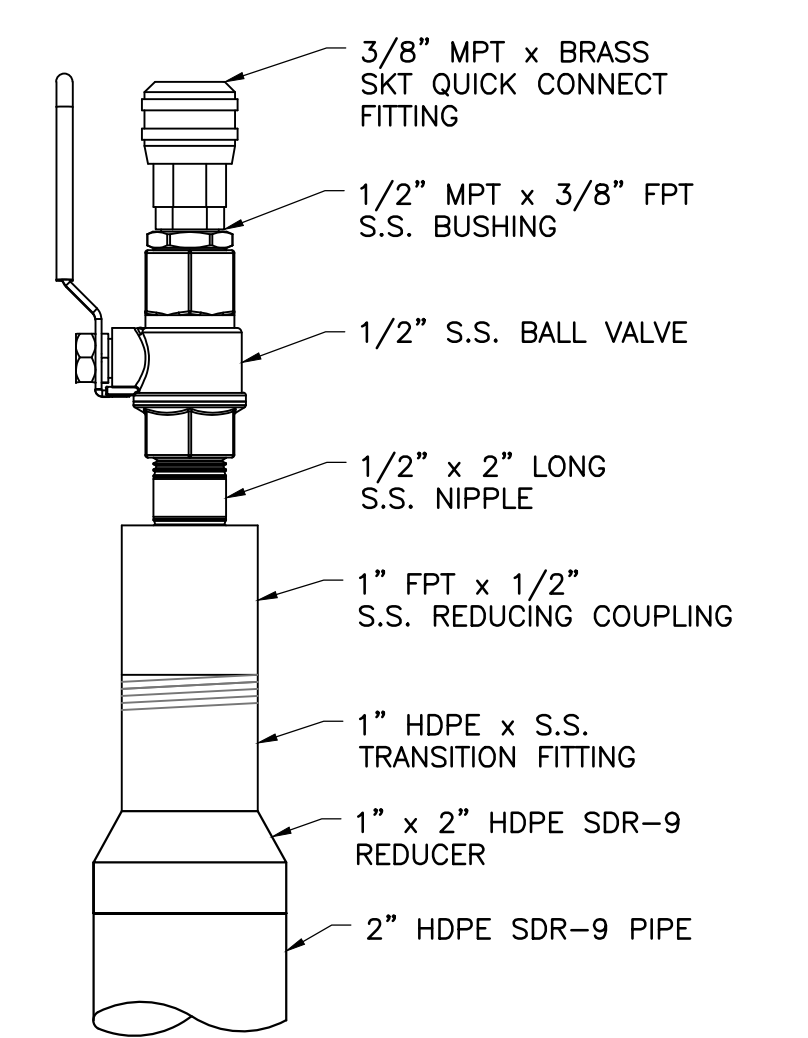
**DUAL EXTRACTION WELL DISCHARGE LINE DETAIL 5**  
SCALE: NOT TO SCALE DS2



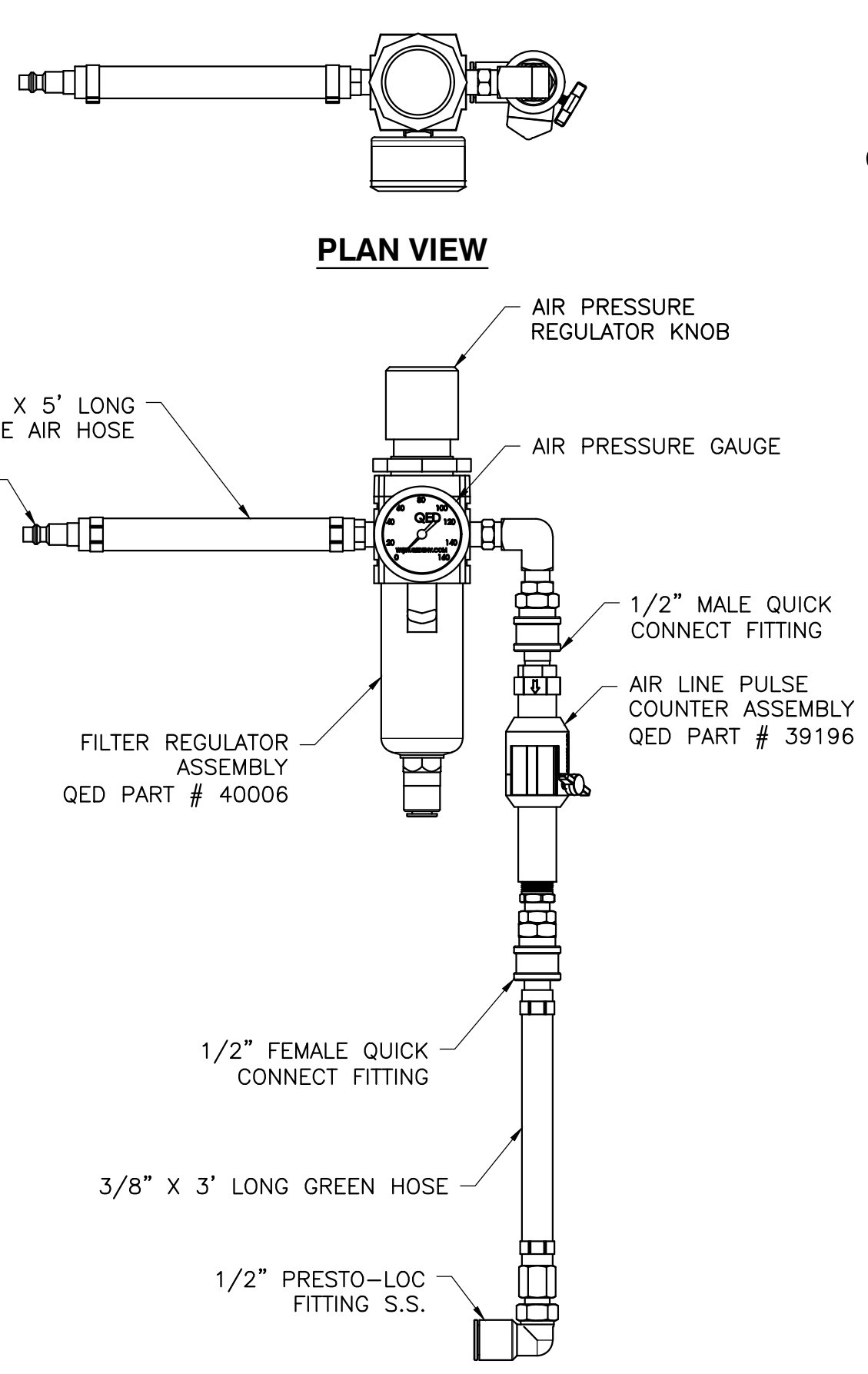
**PUMP DISCHARGE ASSEMBLY DETAIL 4**  
SCALE: NOT TO SCALE DS2



**PUMP FLANGE ASSEMBLY DETAIL 6**  
SCALE: NOT TO SCALE DS2



**AIR SUPPLY LINE VALVE DETAIL 7**  
SCALE: NOT TO SCALE DS2



**DUAL EXTRACTION WELL AIR REGULATOR AND COUNTER DETAIL 3**  
SCALE: NOT TO SCALE DS2

- NOTES:**
- PUMP AND FLANGE ASSEMBLY SHOWN FOR REFERENCE PURPOSES ONLY. PUMP AND FLANGE ASSEMBLY IS NOT INCLUDED WITH FLANGE PACKAGE.
  - PUMP TO BE SET 6-IN OFF THE BOTTOM OF THE SUMP.
  - PUMP EXHAUST PORTS TO BE FITTED WITH THROTTLING NEEDLE VALVE.
  - PUMP AIR EXHAUST TO BE FITTED WITH EQUALIZATION VALVE.

**FOR PERMITTING PURPOSES ONLY**

**NOTE:**  
1. DETAILS ARE TYPICAL AND MAY VARY TO ACCOMMODATE FIELD CONDITIONS AND LOCATIONS AT THE TIME OF INSTALLATION.

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1	11/05/20	DATE OF ISSUE		NJL		
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		DESIGNED BY				
		APPROVED BY				



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BRIDGETON LANDFILL  
BRIDGETON, MISSOURI

**SOIL VAPOR EXTRACTION SYSTEM DETAILS**

SHEET NO. **DS2**  
PROJECT NO. 4201603

## APPENDIX 5

### WELL SPACING CALCULATIONS



## COMPUTATION SHEET

PROJECT TITLE: Bridgeton CAP PROJECT NO: 209-4201603  
 DESCRIPTION: SVE Well Radius of Influence SHEET: 1  
Darcy Approximation OF: 1  
 PREPARED BY: TAB DATE: DRAFT CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

**FIND:** Given the applied vacuum to the wellhead, the relative vacuum application from the collector outwards can be approximated. To accomplish this, we will utilize the Darcy approximation as applied to LFG radius of influence calculations, where:

$$ROI = \left[ \frac{2g_c K T_s (h_s/h_T)}{P_s (dG/dT) \rho \mu T} (P_1^2 - P_0^2) \right]^{1/2}$$

**CALCULATION:**

Methane Concentration:	5.00%	by volume
Carbon Dioxide Concentration:	5.00%	by volume
Oxygen Concentration:	20.00%	by volume
Nitrogen Concentration:	70.00%	by volume
Gas Temperature (T):	80	°F
	540	°R
Gas Generation Rate (dG/dT):	5	m <sup>3</sup> /Mg-yr
	0.080	ft <sup>3</sup> /lb <sub>m</sub> -yr
	2.545E-09	ft <sup>3</sup> /lb <sub>m</sub> sec
Soil Permeability (K):	1.00E-09	ft/sec
Vacuum at Wellhead (P0):	0.1	"WC
	0.004	psig
	2116.28	lbs/ft <sup>2</sup>
Total Depth of Well (h <sub>T</sub> ):	40	feet
Total Quantity of Slotted Pipe (h <sub>s</sub> ):	35	feet
Slotted Pipe Ratio (h <sub>s</sub> /h <sub>T</sub> ):	0.88	
Soil Density (ρ):	4050	lb/yd <sup>3</sup>
	150	lb/ft <sup>3</sup>
<b>Radius of Influence:</b>	<b>106</b>	<b>feet</b>

This assumes a silty-clay soil type.

**RESULTS:** The calculated radius of influence for this application is approximately: 106 feet



## APPENDIX 6

### TYPICAL CARBON FILTRATION SYSTEM



## **I, O, &M INFORMATION**

**PROJECT:  
BRIDGETON LANDFILL  
S/N S2013-023-001**

### **Description:**

PureAir Filtration is providing a PBS-605 FRP system designed to treat 1000 CFM of air and meet all performance requirements for eliminating odors.

April 19, 2013

REV 1

**NOTE: THIS IS AN EXCERPT FROM THE IOM MANUAL. A COPY OF THE FULL MANUAL IS MAINTAINED AT THE SITE.**



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  - D. MEDIA
  - E. MEDIA BED MONITORING ROD
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2. CPSB BLEND BROAD SPECTRUM MEDIA DATA SHEETS

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3. FLEX CONNECTOR
4. BALL VALVE
5. MEDIA BED MONITORING ROD INFORMATION
6. GRAIN THEIF SAMPLER
7. RESIN

**NOTE: THIS IS AN EXCERPT FROM THE IOM MANUAL. A COPY OF THE FULL MANUAL IS MAINTAINED AT THE SITE.**



6050 PEACHTREE PKWY, SUITE 240-187 ATLANTA, GA 30092  
Ph: 678-935-1431, Fax: 678-935-0648

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## TAB 2

# DRAWINGS AND CALCULATIONS



6050 PEACHTREE PKWY, SUITE 240-187 ATLANTA, GA 30092  
Ph: 678-935-1431, Fax: 678-935-0648

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## DRAWINGS AND CALCULATIONS

1. SYSTEM LAYOUT
2. AIRFLOW AND MEDIA LIFE CALCULATIONS

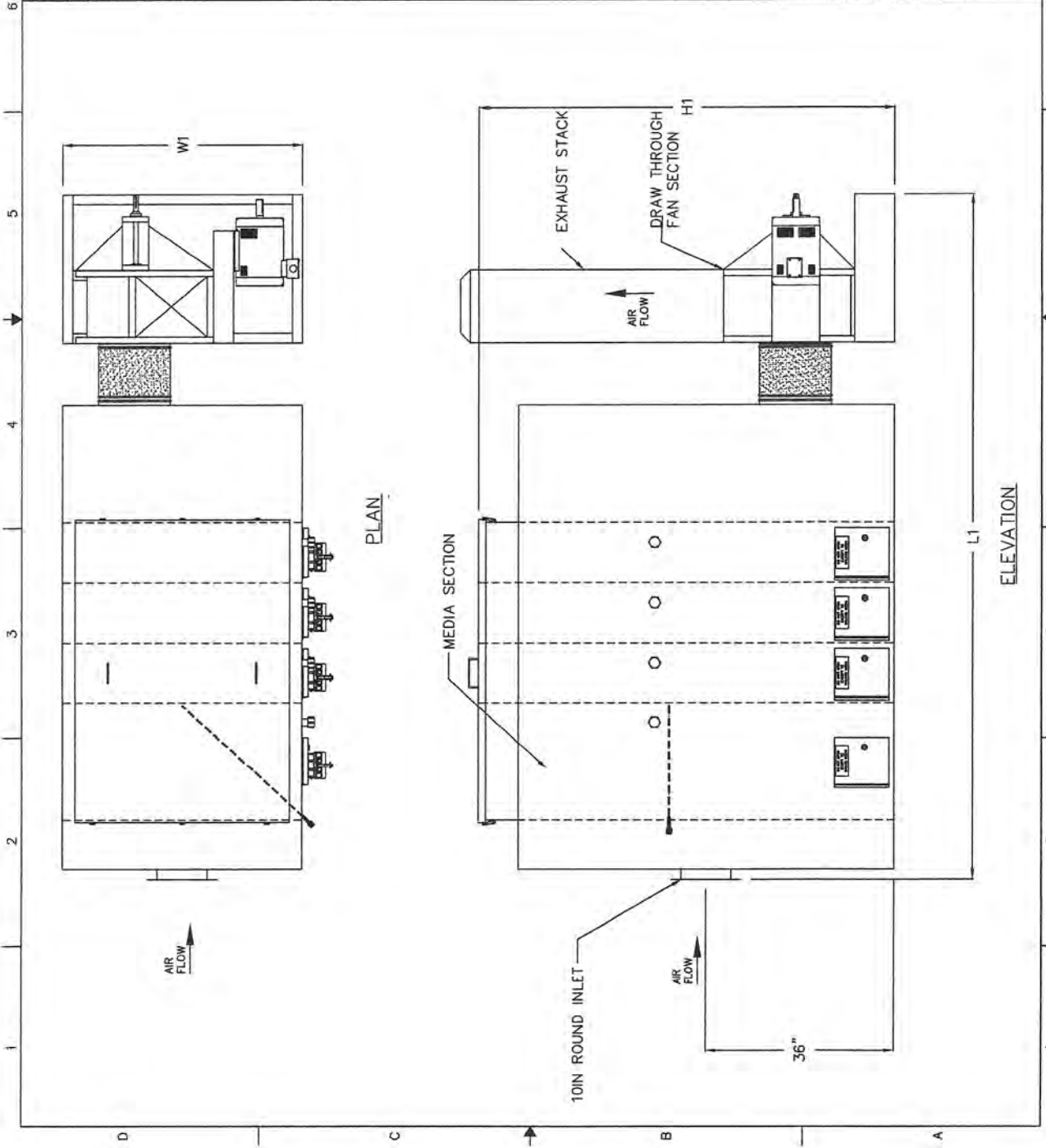


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DRAWINGS

PBS MODEL 605		WT 60"	L1 150"	H1 32"
<b>DIMENSIONS</b>				
<b>CONSTRUCTION</b> - FIBERGLASS REINFORCED PLASTIC (FRP) - DRAW THRU DESIGN - MIST AND GREASE HOUSING WITH SS316 POLY MESH PAD - DOORS SEALED WITH CLOSED CELL NEOPRENE GASKETING - 1/4 TURN COMPRESSION DOOR LATCHES - LIFTING LUGS AND ANCHOR LUGS AS REQUIRED				
<b>UNIT OPTIONS</b> - MAGNEHELIC PRESSURE GAGES - VACUUM UNLOADER - MEDIA BED MONITOR - MEDIA SAMPLE PORTS - INLET WITH TRANSITION TO MATCH CUSTOMER DUCTWORK				
<b>MISCELLANEOUS</b>				
- ALTERNATE CONFIGURATIONS AND OPTIONS AVAILABLE - DIMENSIONS ARE APPROXIMATE (INCHES)				
<b>PureAir Filtration</b> 6050 Peachtree Pkwy Suite 240-187 Atlanta, GA 30092 (678) 935-1431				
CLIENT:				
PROJECT:				
MODEL: PBS-605-FRP-DT-MG-MB-FF				
DRAWING: M-1				
SCALE: N.T.S.	DRAWN BY: JPB	REVISION: 1	DATE: FEB 14, 2013	
<b>PROPRIETARY INFORMATION</b>				
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 NORCROSS, GA 30092  
 Ph: 678-935-1431, Fax: 678-935-0648

### Airflow and Media Life Calculations

Unit Type	PBS-605		
Vessel Height	72	in	
Vessel Width	60	in	
Media 1 Depth	24	in	
Media 2 Depth	36	in	
Total Media Bed Depth	60	in	
Airflow	1000	cfm	
Face Velocity	33.33	fpm	
Residence Time	9.00	sec	
Inlet Static Pressure	2.2	iwc	
Media Pressure Drop	7.5	iwc	
Accessory Pressure Drop	1	iwc	
Total System Pressure Loss	10.7	iwc	
Total Media Volume	150.00	cuft	
Media 1 Density	28	lbs/cuft	<u>Media Type:</u>
Media 1 Proportion	60.00	cuft	Leachate SXL
Media 1 Proportion	1680	lbs	
Media 2 Density	32	lbs/cuft	<u>Media Type:</u>
Media 2 Proportion	90.00	cuft	CPSB
Media 2 Proportion	2880	lbs	
Total Media Weight	4560	lbs	



6050 PEACHTREE PKWY, SUITE 240-187 ATLANTA, GA 30092  
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## TAB 3

# DRY CHEMICAL MEDIA INFORMATION



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**DRY CHEMICAL MEDIA INFORMATION**

- LEACHATE SXL MEDIA DATA SHEET
- CPSB BLEND BROAD SPECTRUM MEDIA DATA SHEET

# PureAir Filtration



## Leachate SXL Adsorbent Media

### Description:

Leachate SXL was developed to provide our customers with the highest extended life. Leachate SXL has a capacity for capturing heavy VOC's such as Benzene and Toluene along with Hydrogen Sulfide (H<sub>2</sub>S). PureAir's unique media is specially formulated with 2 additional proprietary neutralizing ingredients in order to excel in the harsh leachate environments. Leachate SXL performs exceptionally well not only in PureAir scrubbers, but also as replacement media in scrubbers manufactured by other companies.

### Specifications:

#### Sulphasorb SXL —

General Description: Porous, cylindrical pellets of high grade bituminous activated carbon  
Plus 2 proprietary neutralizing ingredients.

#### Properties:

• H <sub>2</sub> S Removal Capacity (by volume):	<b>0.30 g/cc min</b>
• Removal Capacity (by weight):	H <sub>2</sub> S: 50% min
• CTC value:	70% min
• Surface Area:	1050 m <sup>2</sup> /g min
• Typical Apparent Density:	.44 g/cc (28 lbs/ft <sup>3</sup> )
• Moisture Content:	15% max
• Hardness:	95 min
• Ignition Temperature:	>400 C
• Iodine No.:	1050 mg/g min
• Butane Activity, (weight%):	26% min
• Mean Particle Diameter:	4 mm (typical)

Life Testing: Leachate SXL works with PureAir's exclusive Media Bed Monitor.

Pure Air Filtration, LLC  
6050 Peachtree Pkwy Suite 240-187  
Atlanta, GA 30092 USA  
+1 (678) 935-1431 toll free 1-866-543-7479  
Fax +1 (678) 935-0648

Visit us at: [www.PureAirFiltration.com](http://www.PureAirFiltration.com) or  
write us at: [info@PureAirFiltration.com](mailto:info@PureAirFiltration.com)

# PureAir Filtration



## CPSB Broad Spectrum Leachate Blend Adsorbent Media

### Description:

CPSB Leachate Blend media is a 50 percent/ 50 percent blend of PureAir 12 permanganate based media and PureAir AC virgin bituminous activated carbon designed for the broadest range removal of corrosive, odorous, or toxic gases.

### Specifications:

#### **PureAir 12 Component**

General Description: Spherical or cylindrical porous pellets formed from a combination of powdered activated alumina and other binders, suitably impregnated with potassium permanganate to provide optimum adsorption, absorption, and oxidation of a wide variety of gaseous contaminants.

#### Removal Capacity:

- Hydrogen Sulfide: 0.20 g/cc min (24% by weight)
- Sulfur Dioxide: 0.11 g/cc min (12% by weight)
- Nitric Oxide: 0.06 g/cc min (7.5% by weight)
- Nitrogen Dioxide: 0.024 g/cc min (3.0% by weight)
- Formaldehyde: 0.04 g/cc min (5.0% by weight)

#### Manufacturing Quality Assurance Standards:

- Leach Test (indication of porosity)- 180 minute or less
- Permanganate Content: 12 % minimum
- Moisture Content: 20 % maximum
- Crush Strength: 40 to 60 %
- Abrasion Loss: 3.0 % maximum
- Nominal Pellet Diameter: 1/8" (approximately 4 mm), 85% after screening
- Nominal Density: 50 lbs/ft<sup>3</sup> (0.80 g/cc)

#### **PureAir AC Component**

General Description: Porous, cylindrical pellets of high grade bituminous activated carbon. Along with 2 additional proprietary neutralizing ingredients.

#### Properties:

- Ash content: 2-3%
- CTC Percentage: 60 to 70 percent
- Surface area: 1200 square meters per gram minimum
- Density: 32 pounds per cubic foot nominal
- Mesh Size: 4 by 6, 90% after screening
- Hardness: 95
- 2 proprietary neutralizing ingredients

Media Remaining Life Testing: Pure Air Filtration provides free quarterly media testing for the life of the media installation. This testing provides critical data including remaining carbon life, remaining permanganate content, total life prediction, moisture content, and projected replacement date. Data is provided for each of the separated components of a blend. All analyses are performed at our certified laboratory

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