

June 9, 2023

Ms. Greta White
Project Manager, Remedial Bureau C
Division of Environmental Remediation
New York State Department of Environmental Conservation (NYSDEC)
625 Broadway
Albany, NY 12233-7014

Re: NYSDEC Site No. 360174; BCP C361074
May – June 2023 Monthly Progress Report
Westchester County Airport
240 Airport Road
Harrison, New York 10604

Dear Ms. White:

Actions Taken/Accomplishments (May 2023 – June 2023)

A schedule of completed and projected activities is included as Appendix A.

1. On June 2, First Environment arranged a teleconference with WSP and New York State Environmental Conservation Environmental Conservation (NYSDEC) to provide additional information and further discuss previous sampling in the areas NYSDEC proposed. NYSDEC will consider what was presented on June 2 and provide a response before First Environment's proposed resubmittal of the Remedial Action Workplan (RIWP).
2. Continued the update of Electronic Data Deliverables (EDDs) sample locations.
3. First Environment is working with the County, Airport, and Triumph with respect to the installation of the water system improvements. Triumph was awarded Contract 22-522 WCA Domestic Water System Improvements to install the system improvements. Mobilization to the site began on May 31, 2023, with construction planned to begin in mid- to late-June 2023. The estimated time to complete the improvements is approximately 12 to 18 months.
4. First Environment submitted the request for the Groundwater Remediation Permit from the Westchester County Department of Environmental Facilities (WCDEF) to allow for the discharge of treated groundwater to the sanitary

sewer. On May 18, 2023, DEF granted a groundwater remediation permit for discharge of treated groundwater to the sanitary sewer at 17 gallons per minute (gpm) based on monthly average. A copy of the permit is provided in Appendix B.

5. First Environment, Triumph, and GWTT met at the site on June 5 to construct a plan for the system location and installation as well as to discuss logistics for the system operation. The treatment system design and specifications are provided in Appendix C.
6. The groundwater treatment system was delivered and set up for operation by GWTT on Airport property on June 8 and 9, 2023.

June & July Planned Activities

1. On June 16, 2023, First Environment and Anchor QEA will mobilize to the site to initiate a habitat assessment of the stream at Outfall 7 (OF-7).
2. First Environment will collect influent and effluent samples from the treatment system, evaluate water quality data, and record water flow leaving the treatment system per DEF permit requirements. Triumph is responsible for the treatment system operation and maintenance.
3. First Environment will resubmit the revised RIWP.
4. Mobilization to the site has begun and waterline construction is planned to initiate in mid- to late-June 2023. The estimated time to complete the improvements is approximately 12 to 18 months.
5. First Environment will provide Continuous Air Monitoring during waterline intrusive construction activities as described in First Environment's Community Air Monitoring Program (CAMP) submittal to the NYSDEC/NYSDOH.
6. The 2021 constructed stormwater system has reduced the flow of PFAS impacted water leaving the Airport at OF-7 by as much as 50 times. The water flow leaving OF-7 during dry conditions is approximately one gpm, and during the wet season flow leaving OF-7 is generally between 5 to 10 gpm (non-rain event conditions). The water leaving OF-7 under these conditions is attributed to groundwater entering the storm sewer system through leaks and daylighting to storm drains. The mass of PFAS leaving OF-7 has been reduced, but PFAS levels remain elevated in water leaving at OF-7 as well as at the downgradient NYCDEP E-10 measuring station.
7. First Environment will initiate an estimated three-month pilot test at OF-7 to treat water and reduce PFAS levels discharging to OF-7. The system is scheduled for installation during the summer 2023. During the treatment system operation, First Environment intends to monitor biweekly PFAS water concentrations as well as other water quality parameters in surface water at OF-7 and E-10.
8. The County will retain an independent third-party contractor during the summer of 2023 who specializes in stormwater systems to evaluate the

presence of groundwater leaks and provide solutions to eliminate PFAS impacted groundwater from entering the stormwater system leading to OF-7.

9. Revisions of the EDDs will continue for submittal to the NYSDEC.

If you have any questions, please do not hesitate to call.

Regards,

FIRST ENVIRONMENT, INC.



Scott R. Green, P.G.
Director, Insurance Consulting
Service Group



David Luer
Project Manager/Field Team Leader

Att.

c: B. Tod Delaney, Ph.D., P.E., BCEE - First Environment, Inc.
Arthur Clarke, J.D. - First Environment, Inc.
Hugh Greechan, Jr. P.E. - Westchester County Public Works & Transportation
John Nonna - Westchester County Attorney
April Gasparri – Westchester County Airport Manager
John Inserra - Westchester County Airport Environmental
John Benvegna - WSP
K.Thompson, NYSDEC
M. Murphy, NYSDEC
D.Bendell/D.Pollock, NYSDEC
M. Doroski – NYSDOH
K. Kulow – NYSDOH

APPENDIX A

APPENDIX A
Work Activity Schedule
2022-2024

Milestone	Estimated Completion Date	Estimated Completion Percentage
OF-7 Storm Sewer Installation	May 13, 2022	100%
OF-7 Performance Monitoring	3 rd Quarter 2023	90%
OF-7 Pilot Test Treatment System	September 2023	5%
New King Street Workplan – Phase 1	January 24	100%
New King Street Workplan – Phase 2	April 2022	100%
Waterline Workplan	April 2022	100%
Waterline Completion	October 2024	0%
OF-4 IRM Pilot Test ¹	Summer 2023	55%
Remedial Investigation Workplan Submittal	July 2022	100%
GW Pilot Test Scope of Work ²	Summer 2022	100%
GW Pilot Test	Winter 2022	100%
GW Pilot Test Performance Monitoring	Winter 2024	25%
Execution of RI workplan ³	Summer 2023	0%
Remedial Action Alternatives Evaluation	2023-2024	0%
Remedial Action Selection Report	TBD	0%
Remedial Action Workplan	TBD	0%
Certificate of Completion	TBD	0%

Estimated task durations and completions are tentative and are subject to modification based on site work, progress, weather delays, and other considerations such as contractor availability or Airport access.

¹ Pilot test CETCO Fluorsorb at OF-7 – Evaluate the effectiveness of Fluorsorb reducing PFOS and PFOA in surface water. Pilot test CETCO Fluor sorb at OF-7 before testing at OF-4.

² Scope-of-work submitted to the County approved September 2022.

³ Start date dependent upon workplan approval.

APPENDIX B



George S. Latimer
County Executive

Department of Environmental Facilities

Vincent F. Kopicki, P.E.
Commissioner

May 18, 2023

Triumph Construction Corp.
1354 Seneca Avenue
Bayonne, NJ 07002

Attn: Mr. Dan Cody,

RE: Ground Water Remediation

Permit # 492-23
Site: NYSDEC Site 360174
Westchester County Airport
Rye Brook, NY

The wastewater discharge from the above-mentioned site may be discharged to the County Sewer System. The permit holder shall comply with all conditions as outlined in County Sewer Act, Chapter 824 of Laws of Westchester County. The limitations and requirements are as follows:

- 1) Effective dates of permit – **05/18/2023** to **11/17/2023** inclusive.
- 2) Maximum discharge to the sewer in Gallons per Day is **17 gpm** – based on monthly average. Flow shall be recorded each week using non-resettable flow meter.
- 3) Treatment – Sewer Use Ordinance (SUO) limitations (enclosed).
- 4) Analyses of treated wastewater for all limitations stated in SUO sent to this office within 30 days of permit date.
- 5) Additional set of analyses every **60 days** if site is active for longer than 30 days.
- 6) Notification, in writing, to this office when site is no longer active for 30 days and/or remediation work is complete.

If you have any further questions or concerns, please contact our office at (914)813-5431 or by e-mail mew3@westchestergov.com.

Monika Wieleba
Program Administrator



George S. Latimer
County Executive

Department of Environmental Facilities

Vincent F. Kopicki, P.E.
Commissioner

LOCAL SEWER LIMITATIONS

<u>REGULATED POLLUTANT</u>	<u>AVERAGE DAILY CONCENTRATION</u> (mg/L)
pH – Low	5.5
pH – High	9.5
Arsenic	0.2
Barium	2.0
Cadmium	0.7
Chromium (Total)	3.0
Chromium (Hex)	2.0
Copper	2.8
Cyanide (Total)	0.8
Lead	0.4
Mercury	0.2
Nickel	2.8
Oil & Grease	100.0
Phenols	4.0
Selenium	0.2
Silver	0.8
Total Toxic Organics	2.1
Zinc	1.8

APPENDIX C

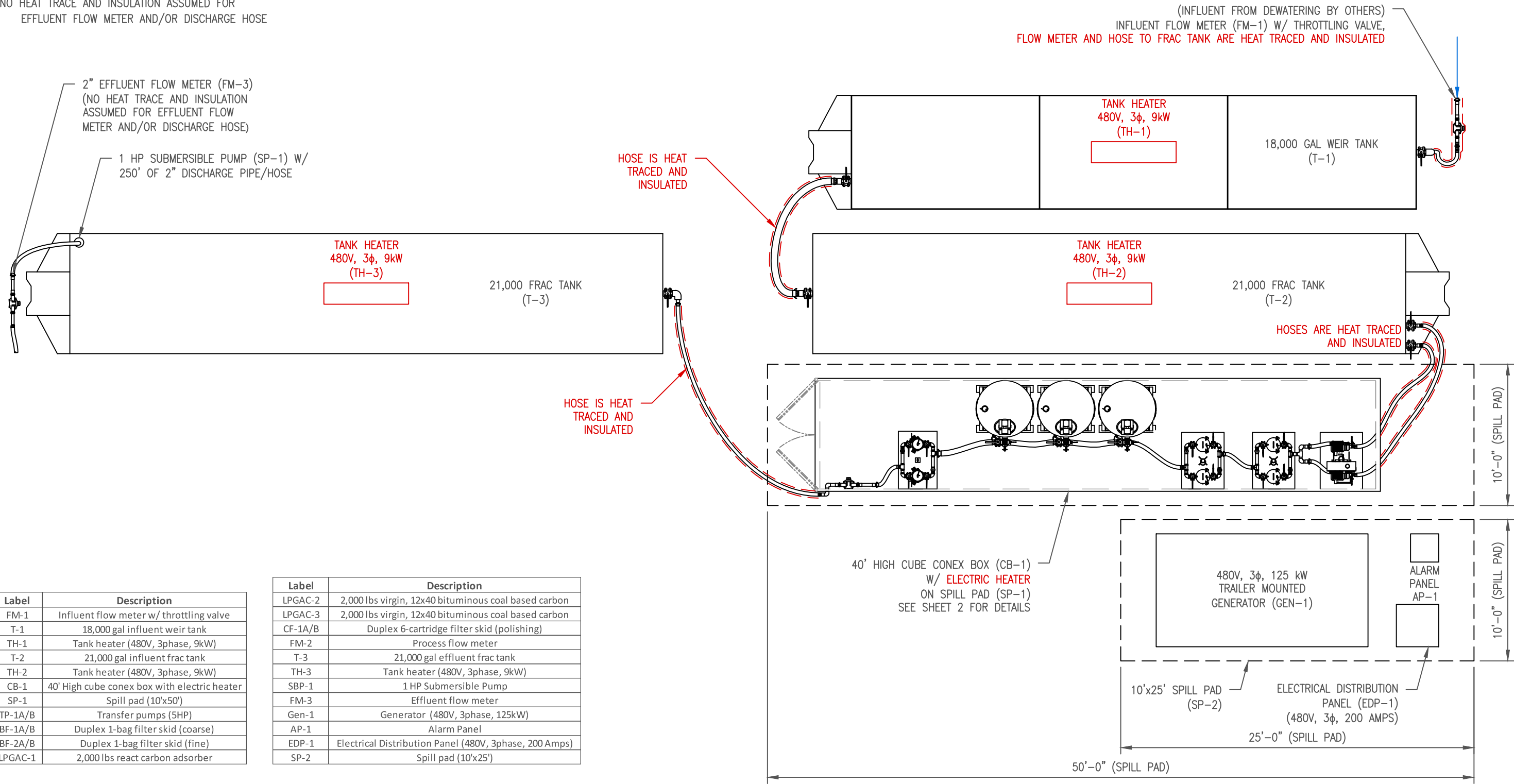
TEMPORARY TREATMENT SYSTEM

OVERALL PLAN VIEW

01 57 19-001-00

NOTES:

1. DESIGN FLOW RATE: 50 GPM
2. SYSTEM FOOTPRINT APPROXIMATELY:
 (INFLUENT TANKS 20'x50')
 (CONEX BOX 10'x50')
 (GENERATOR 10'x25')
 (EFFLUENT TANK 10'x50')
3. NOT ALL VALVES, CONNECTIONS, ETC. SHOWN FOR CLARITY
4. NO HEAT TRACE AND INSULATION ASSUMED FOR EFFLUENT FLOW METER AND/OR DISCHARGE HOSE



Label	Description
FM-1	Influent flow meter w/ throttling valve
T-1	18,000 gal influent weir tank
TH-1	Tank heater (480V, 3phase, 9kW)
T-2	21,000 gal influent frac tank
TH-2	Tank heater (480V, 3phase, 9kW)
CB-1	40' High cube conex box with electric heater
SP-1	Spill pad (10'x50')
TP-1A/B	Transfer pumps (5HP)
BF-1A/B	Duplex 1-bag filter skid (coarse)
BF-2A/B	Duplex 1-bag filter skid (fine)
LPGAC-1	2,000 lbs react carbon adsorber

Label	Description
LPGAC-2	2,000 lbs virgin, 12x40 bituminous coal based carbon
LPGAC-3	2,000 lbs virgin, 12x40 bituminous coal based carbon
CF-1A/B	Duplex 6-cartridge filter skid (polishing)
FM-2	Process flow meter
T-3	21,000 gal effluent frac tank
TH-3	Tank heater (480V, 3phase, 9kW)
SBP-1	1 HP Submersible Pump
FM-3	Effluent flow meter
Gen-1	Generator (480V, 3phase, 125kW)
AP-1	Alarm Panel
EDP-1	Electrical Distribution Panel (480V, 3phase, 200 Amps)
SP-2	Spill pad (10'x25')

ID - C:\Cad Files\QUOTES\Q-10100s\Q-10183 Westchester County Airport\WIP\Q010183-M-400-A.dwg

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 PHONE: 973-983-0901 • FAX: 973-983-0903
 www.gwttllc.com

REV.	DATE	BY	REMARKS	REV.	DATE	BY	REMARKS
A	10/24/22	RS	PRELIMINARY DESIGN FOR REVIEW				

CUSTOMER:	OLA CONSULTANTS
SITE:	WESTCHESTER COUNTY AIRPORT

TITLE:	EQUIPMENT LAYOUT 50 GPM TEMPORARY TREATMENT SYSTEM
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APPROVALS	BY DATE
	JMB 10/24/22
MECH. I&C PROCESS	

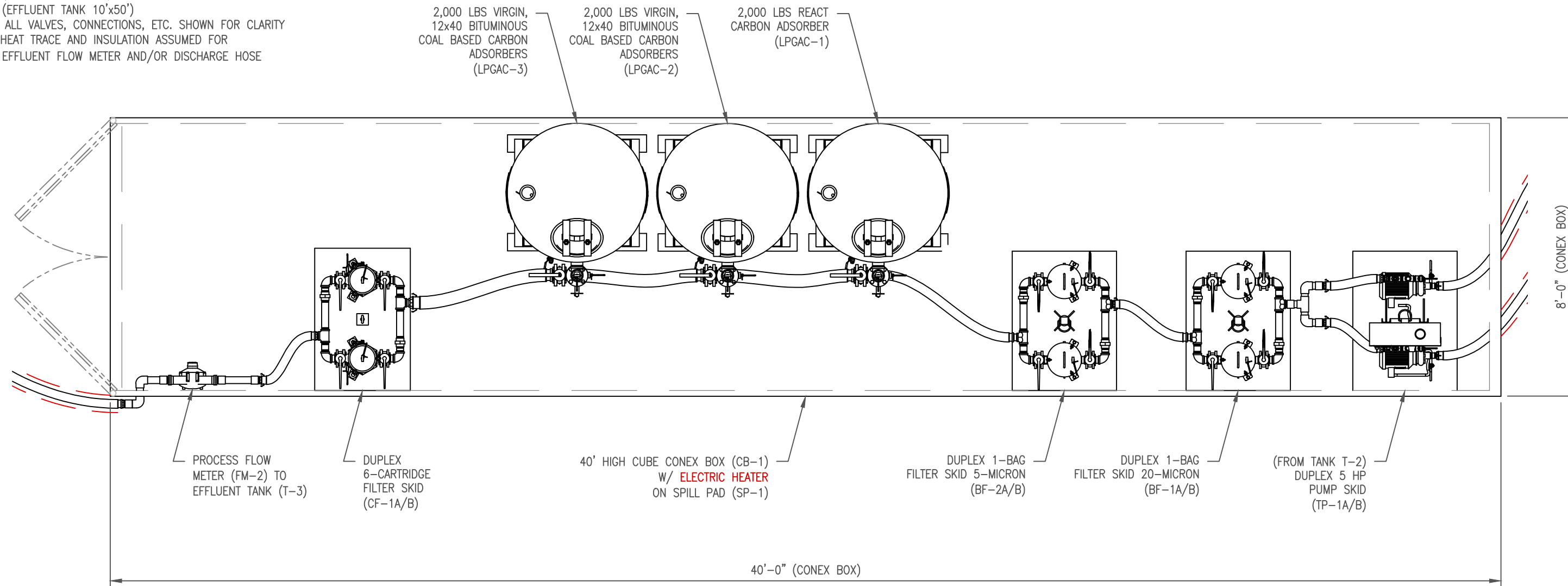
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NOTES:

1. DESIGN FLOW RATE: 50 GPM
2. SYSTEM FOOTPRINT APPROXIMATELY:
 (INFLUENT TANKS 20'x50')
 (CONEX BOX 10'x50')
 (GENERATOR 10'x25')
 (EFFLUENT TANK 10'x50')
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40' CONEX BOX
OVERALL PLAN VIEW

01 57 19-001-00



Label	Description
FM-1	Influent flow meter w/ throttling valve
T-1	18,000 gal influent weir tank
TH-1	Tank heater (480V, 3phase, 9kW)
T-2	21,000 gal influent frac tank
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Label	Description
LPGAC-2	2,000 lbs virgin, 12x40 bituminous coal based carbon
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CF-1A/B	Duplex 6-cartridge filter skid (polishing)
FM-2	Process flow meter
T-3	21,000 gal effluent frac tank
TH-3	Tank heater (480V, 3phase, 9kW)
SBP-1	1 HP Submersible Pump
FM-3	Effluent flow meter
Gen-1	Generator (480V, 3phase, 125kW)
AP-1	Alarm Panel
EDP-1	Electrical Distribution Panel (480V, 3phase, 200 Amps)
SP-2	Spill pad (10'x25')

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REV.	DATE	BY	REMARKS
A	10/24/22	RS	PRELIMINARY DESIGN FOR REVIEW

CUSTOMER:	OLA CONSULTANTS
SITE:	WESTCHESTER COUNTY AIRPORT

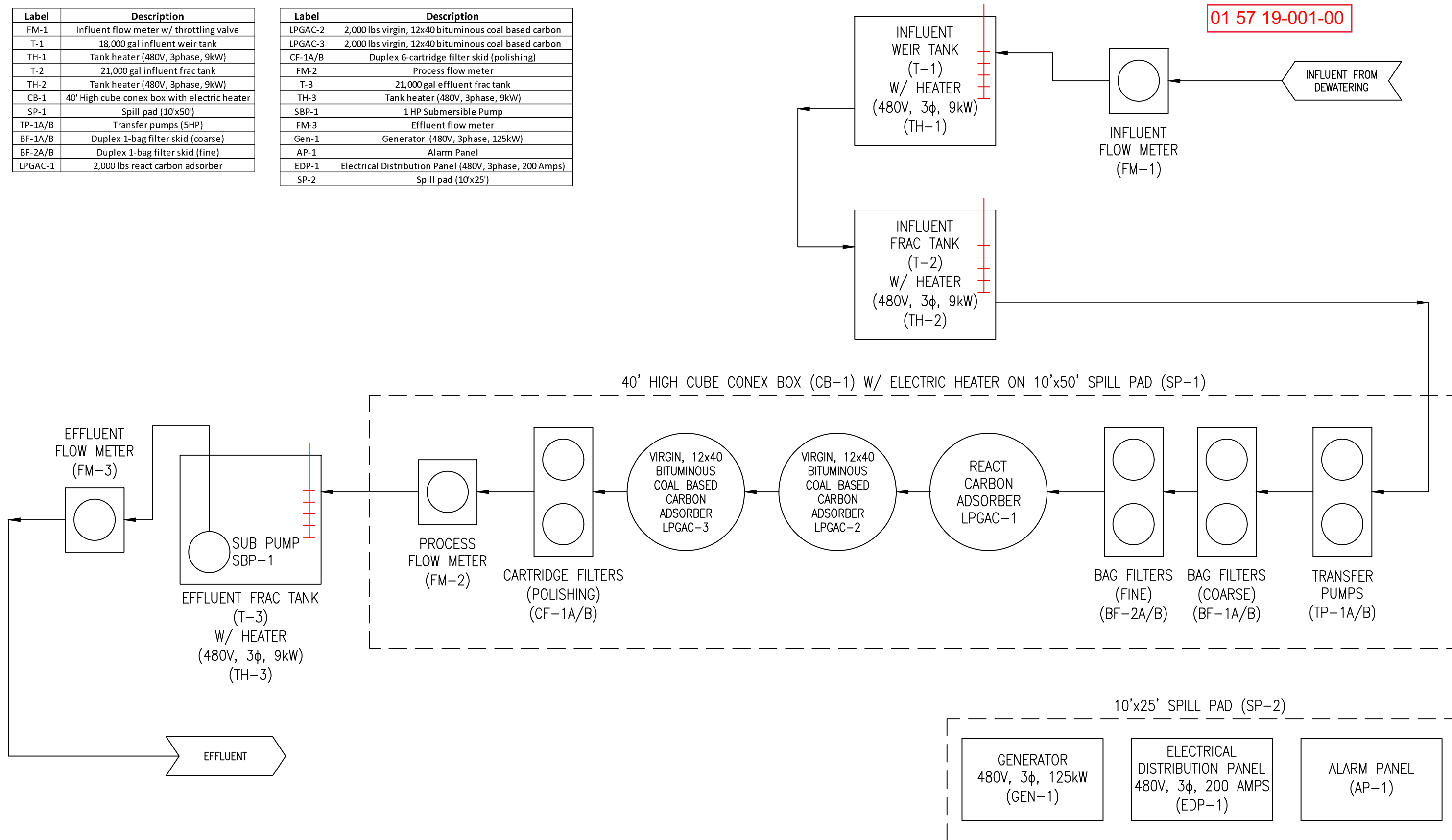
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APPROVALS	BY: _____ DATE: 10/24/22
MECH. I&C PROCESS	BY: JMB DATE: 10/24/22
DWG SIZE: B	SHEET: 2 OF 2
DRAWING NO.:	Q010183-M-400

Label	Description
FM-1	Influent flow meter w/ throttling valve
T-1	18,000 gal influent weir tank
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CUSTOMER: OLA CONSULTANTS			TITLE: BLOCK FLOW DIAGRAM 50 GPM TEMPORARY TREATMENT SYSTEM			DRAWN BY: JMB RS DATE: 10/24/22 APPROVALS:	
SITE: WESTCHESTER COUNTY AIRPORT						BY: JMB DATE: 10/24/22 MECH. JMB I&C PROCESS	
REV. DATE BY REMARKS			REV. DATE BY REMARKS			DWG SIZE: B SHEET: 1 OF 1 DRAWING NO.: Q010183-M-400	

18,000 Gallon Open Top Weir Tank



- 1/4 inch construction
- Steel shot blasted
- Most durable paint and lining in the industry
- Floor structure undercoated

Dimensions

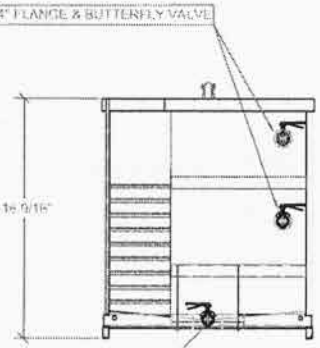
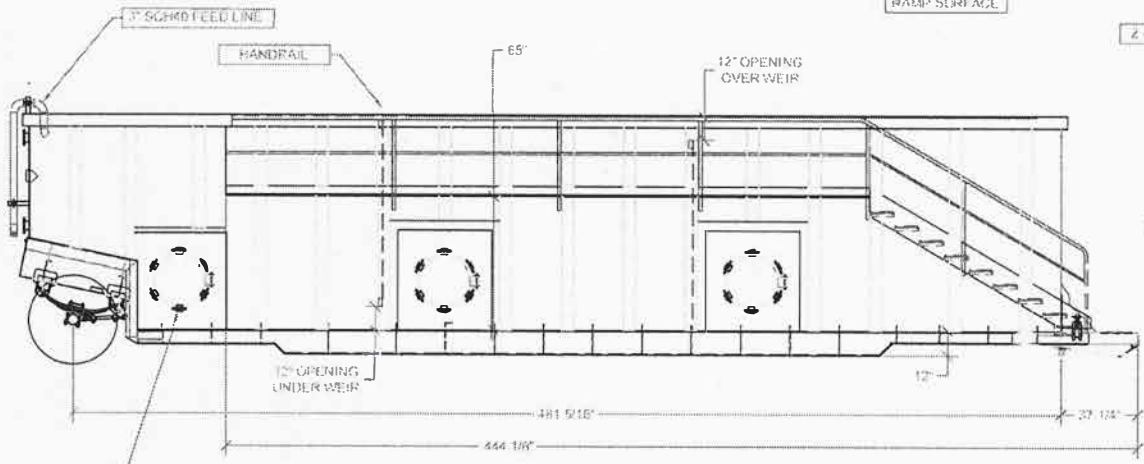
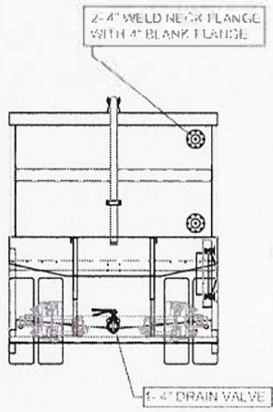
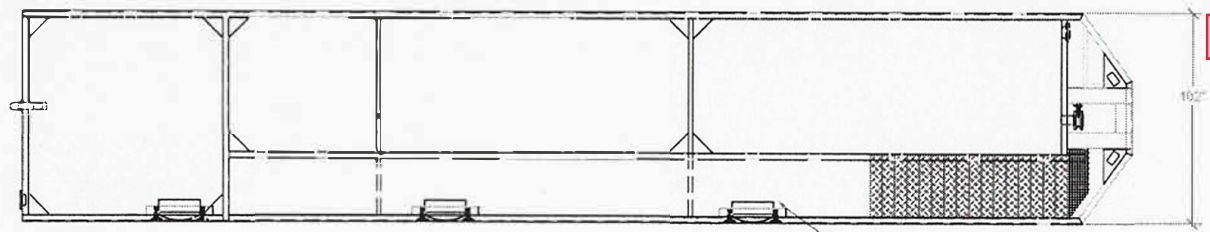
Length 42'

Width 8' 6"

Height 9' 8"

Capacity 18,000 gallons

01 57 19-001-00



STANDARD SPECIFICATION

- CAPACITY: ... 17 800 GALLONS (424 BBL)
- SIDE SHEETS: ... 1/4" A36 PLATE
- FRONT SHEET: ... 1/4" A36 PLATE
- REAR SHEET: ... 1/4" A36 PLATE
- FLOOR: ... 1/4" A36 PLATE
- MAIN FLOOR RAILS: ... 12" x 20.7# STRUCTURAL CHANNEL
- FLOOR CROSSMEMBERS: ... 1/4" A36 PLATE
- SIDE STAKES: ... ONE PIECE 3/16" A36 PLATE
- SUSPENSION: ... 3 LEAF SPRING, 22,500 LBS. CAPACITY
- AXLE: ... 71.5" TRACK, 22,500 LBS. CAPACITY
- TIRES: ... 11R22.5
- WHEELS: ... 8.25 x 22.5 STEEL
- MANWAYS: ... 3 - 25" DIA. CURB SIDE
- VALVES: ... 2 - 4" BUTTERFLY VALVE (FRONT)
- 1 - 4" BUTTERFLY DRAIN (FRONT)
- 1 - 4" BUTTERFLY VALVE (REAR)
- INLET PIPING: ... 1 - 3" PIPE SYSTEM (REAR)
- BLAST: ... (INTERIOR) SSPC-SP-10 (NEAR WHITE)
- (EXTERIOR) SSPC-SP-6 (COMMERCIAL BLAST)
- PAINT: ... (INTERIOR) EPOXYPHENOLIC 100% SOLID 20.0 MILS D.F.T.
- (EXTERIOR) PRIMER COAT EPOXY 3.0 TO 4.0 MILS OF T.
- (EXTERIOR) FINISH COAT POLURETHANE 3.0 TO 4.0 D.F.T.

NOTE:
This drawing is a representation baseline for this model of tank. Variations between this drawing and the actual equipment do exist, primarily with appurtenance locations, sizes and quantities.

DRAWING APPROVAL

THIS PRINT IS FORWARDED FOR YOUR APPROVAL. PLEASE REVIEW BEFORE SIGNING. IF NECESSARY MAKE CHANGES

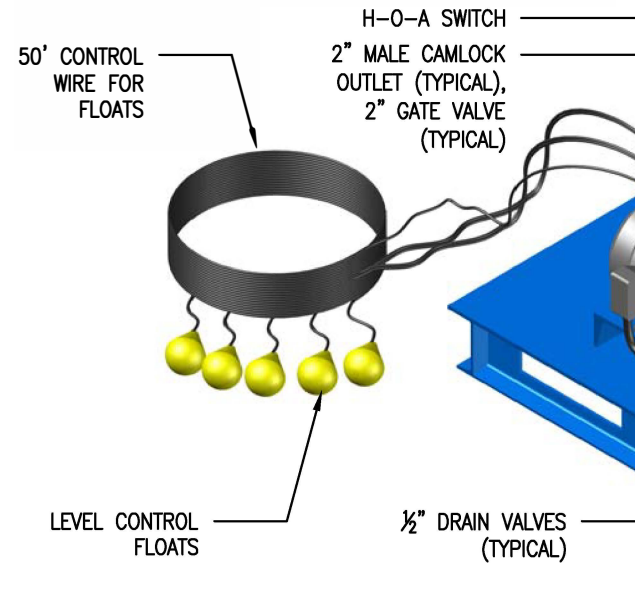
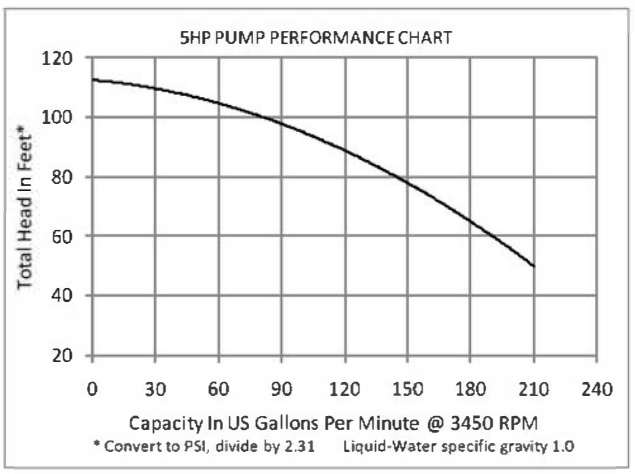
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SIGNATURE _____ DATE _____

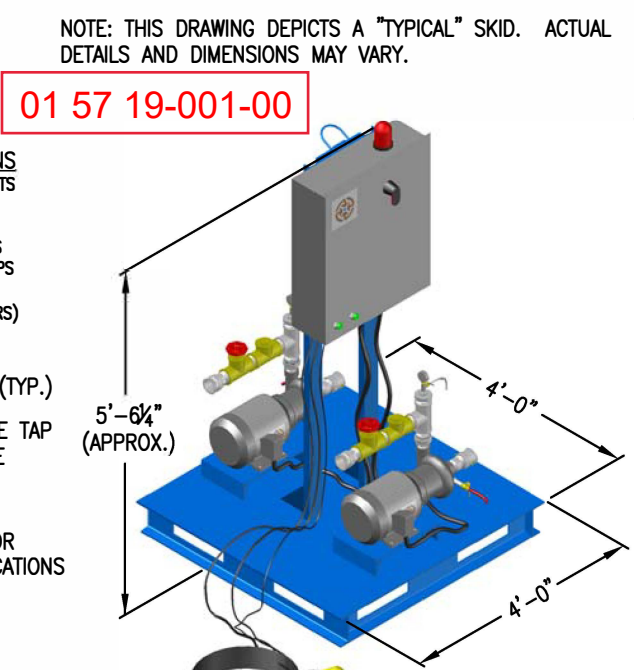
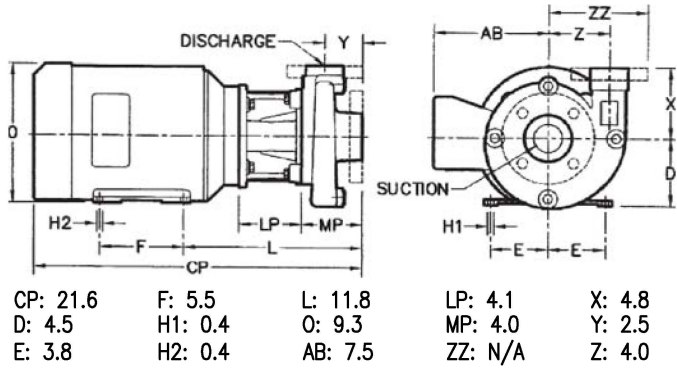
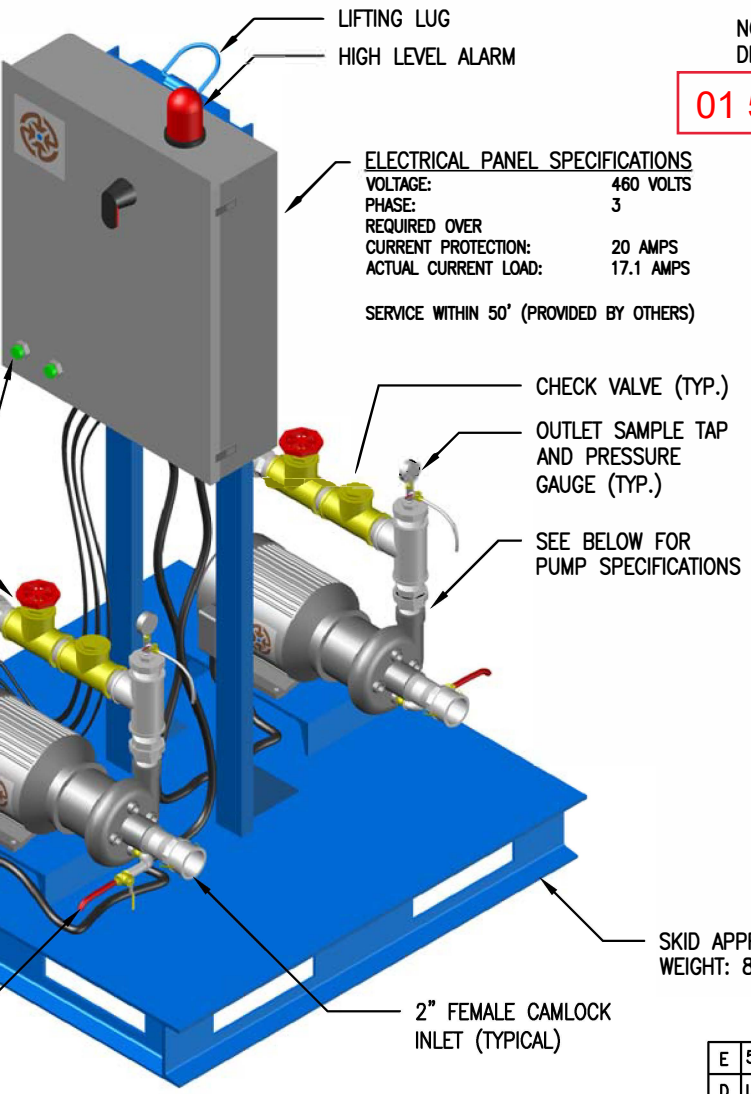
TITLE: _____

	PINNACLE MFG	512 West Henderson Ave Boaz, Alabama 35957 Telephone 256 840-8031
	AL 470F-102 STANDARD SPECIFICATIONS OPEN TOP W/ R' FRAC UNDER / OVER WEIR	PLASMA / ERW / FILL
JSL	08/30/07	B
1/60" = 1"	042	AL 470 OTW-102

T:\Cad Files\Rentals - STANDARD DRAWINGS\EQUIPMENT SPECIFICATION\PUMPS\Centrifugal Pumps\5HP\ST-000003-SPC01(E) Duplex 5 HP Pump Skid.dwg-Apr 25 2016-12:20 PM

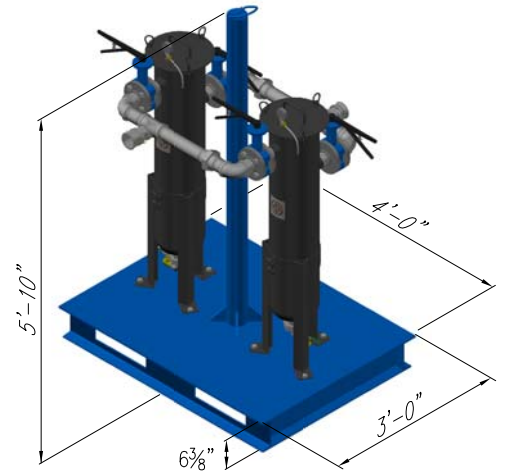
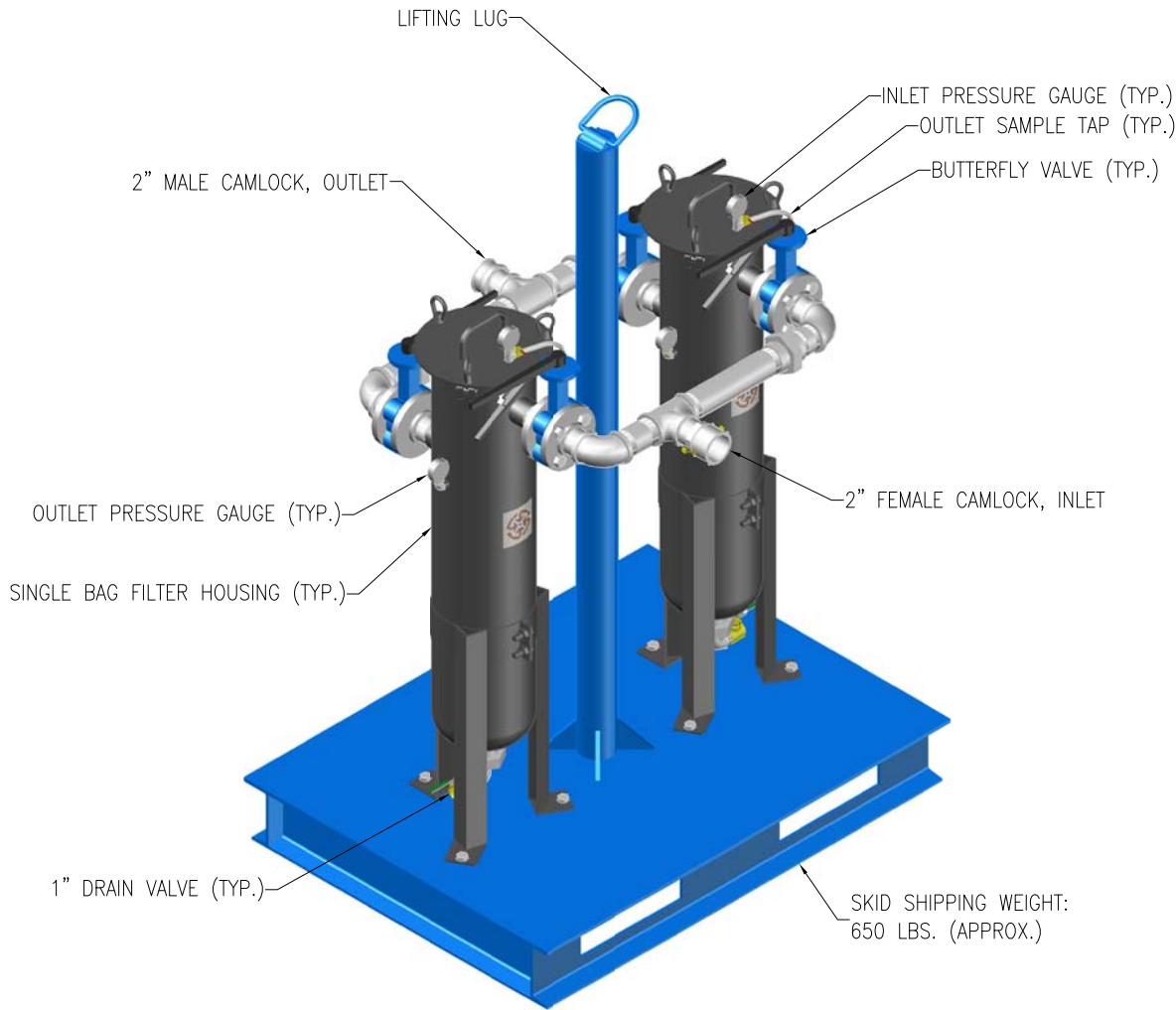


- 5 HP PUMP MECHANICAL/ELECTRICAL SPECIFICATIONS**
- TYPICAL CAPACITY AND HEAD: 100 GPM @ 95' TDH
 - CONSTRUCTION: CAST IRON W/ STAINLESS STL. IMPELLER AND BUNA-N SEALS
 - MAXIMUM TEMPERATURE: 180°F
 - MAXIMUM HEAD: 115 ft.
 - MAXIMUM FLOW: 210 GPM
 - ENCLOSURE: TEFC
 - SUCTION: 2" NPT
 - DISCHARGE: 1-1/2" NPT
 - PUMP WEIGHT: 60 Lbs.
 - DISCHARGE PORT ROTATES IN 90° INCREMENTS
 - PUMP VOLTAGE @ 60 Hz: 230/460
 - FULL LOAD AMPS PER PUMP: 17/9



E	5'-6 1/4" WAS 6'-0".	MSM	04/25/16
D	UPDATED TO NEW CAD STANDARDS	RJS	09/18/15
C	CHANGED PERFORMANCE CHART	RJS	10/07/08
NO.	REVISIONS	BY	DATE
TITLE: EQUIPMENT SPECIFICATION STANDARD DUPLEX 5 HP PUMP SKID			
SCALE:	NTS	APPROVED BY: RJS	DRAWN BY: AAV
DATE:	03/19/08		
627 MOUNT HOPE ROAD • WHARTON, NJ 07885 PHONE: 973-983-0901 • FAX: 973-983-0903 www.gwttllc.com			
THIS INFORMATION IS THE PROPERTY OF GROUND/WATER TREATMENT AND TECHNOLOGY, LLC AND IS LOANED TO YOU SUBJECT TO RETURN ON DEMAND. ITS CONTENTS ARE CONFIDENTIAL AND MUST NOT BE COPIED OR GIVEN TO ANY THIRD PARTIES FOR USE OR EXAMINATION UNLESS OTHERWISE AGREED TO IN WRITING BY GROUND/WATER TREATMENT AND TECHNOLOGY, LLC.			
DWG SIZE: A	SHEET: 1 OF 1	DRAWING NO.:	ST-000003-SPC01 E

01 57 19-001-00



NOTE: THIS DRAWING DEPICTS A "TYPICAL" SKID. ACTUAL DETAILS AND DIMENSIONS MAY VARY.

E	REVISED TITLEBLOCK.	01/05/15
D	REVISED SPECIFICATIONS.	08/25/10
NO.	REVISIONS	DATE

CUSTOMER:
SITE:

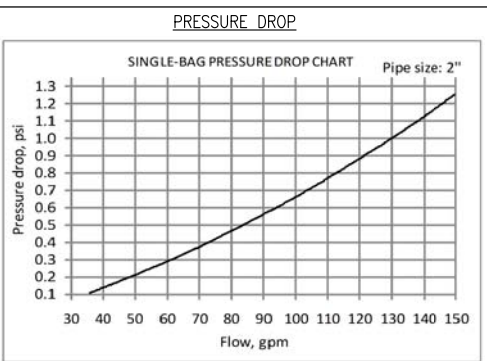
TITLE: EQUIPMENT SPECIFICATION
STANDARD
DUPLEX SINGLE BAG FILTER SKID

SCALE: NTS	APPROVED BY: JB	DRAWN BY: AAV
DATE: 08/25/10		

GWTT
Ground-Water Treatment & Technology, LLC
627 MOUNT HOPE ROAD · WHARTON, NJ 07885
PHONE: 973-983-0901 · FAX: 973-983-0903
www.gwttllc.com

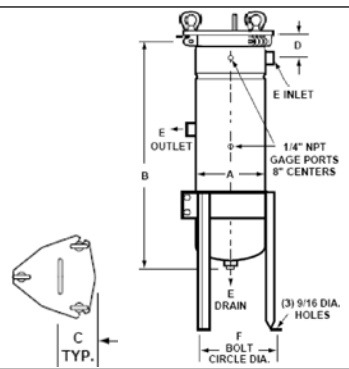
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DWG SIZE: A	SHEET: 1 OF 1	DRAWING NO.: ST-0002-SPC	E
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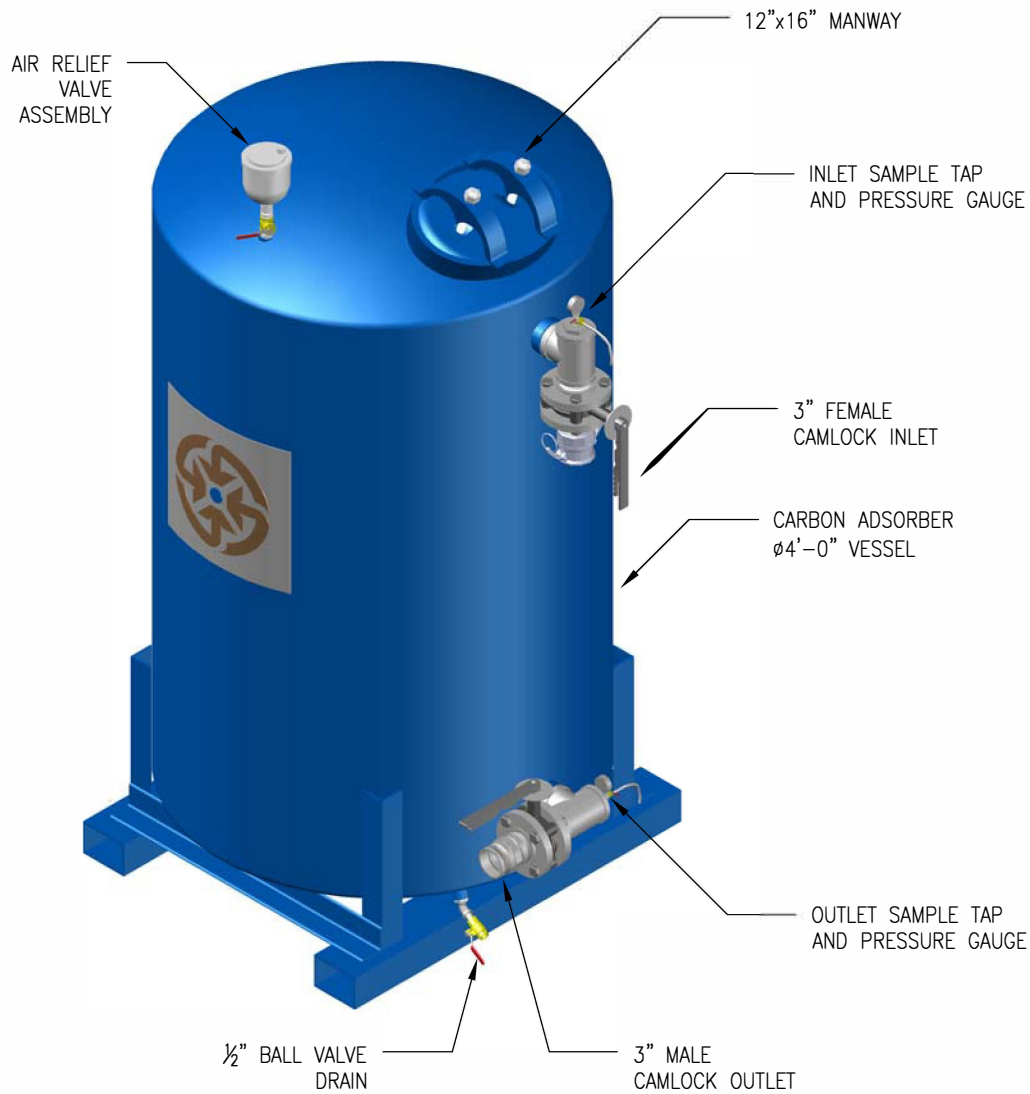
- SINGLE-BAG FILTER SPECIFICATIONS
- CONSTRUCTION: CARBON STEEL STANDARD
 - HOUSING STYLE: 1
 - NUMBER OF BASKETS: 4.4 SQ. FT.
 - STRAINING FILTERING AREA: 2"
 - INLET/OUTLET SIZE: 2"
 - DRAIN SIZE: 100 GPM
 - NOMINAL FLOW RATE: 125 PSI
 - STANDARD PRESSURE: 70 Lbs.
 - WEIGHT (PER DRY UNIT):

BASIC DIMENSIONS
MODEL NUMBER & A: 8 (8.6")
LEG BOLT CIRCLE (F): Ø12.0
B: 35.9" C: 6.0"
D: 3.5" E: 2.0"



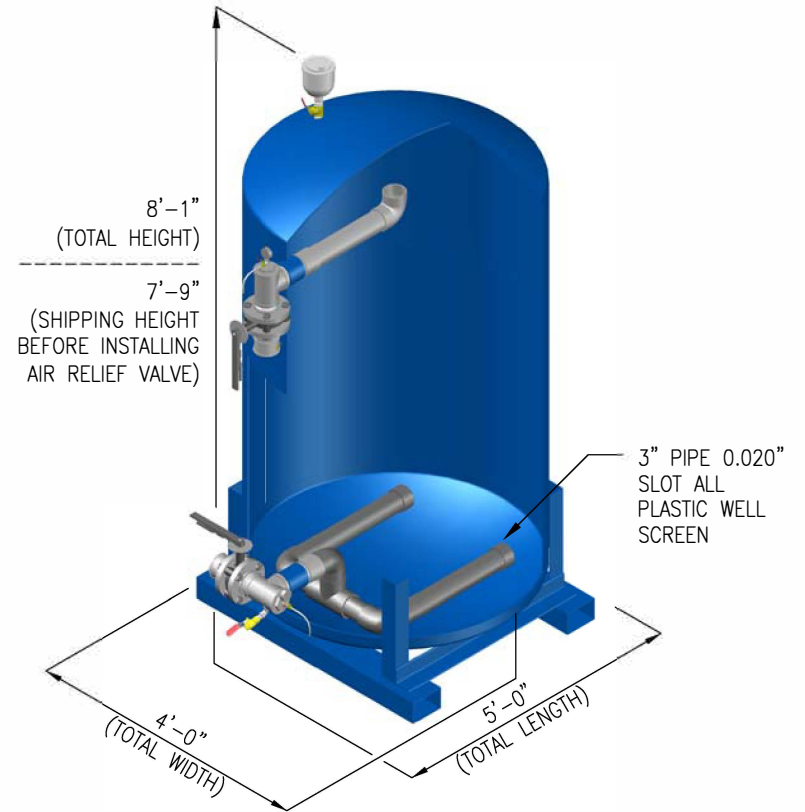
SKID SHIPPING WEIGHT:
650 LBS. (APPROX.)

ID - C:\Cad Files\Rentals - STANDARD DRAWINGS\EQUIPMENT SPECIFICATION\CARBON ADSORBERS\2000 LB\ST-000380-SPC01(B).dwg - Tue, 13 Oct 2015 - 14:37



NOTE: THIS DRAWING DEPICTS A "TYPICAL" VESSEL. ACTUAL DETAILS AND DIMENSIONS MAY VARY.

01 57 19-001-00



2,000 POUNDS CARBON ADSORBER SPECIFICATIONS

- | | | | |
|-----------------------------|---------------------|---------------------------|------------|
| - CARBON FILL: | 2,000 Lbs. | - CARBON FILL VOLUME: | 75 Cu. ft. |
| - DESIGN STANDARD PRESSURE: | 75 PSI | - CARBON ADSORBER WEIGHT: | EMPTY |
| - MAX FLOW RATE: | 100 GPM | | 2,000 Lbs. |
| - EBCT: | 5.25 min. @ 100 GPM | SHIPPING (W/CARBON): | 4,000 Lbs. |
| - HOUSING CONSTRUCTION: | A-36 CARBON STEEL | OPERATING: | 9,000 Lbs. |
| - INLET CONNECTION: | 3" FEMALE CAMLOCK | | |
| - OUTLET CONNECTION: | 3" MALE CAMLOCK | | |
| - DRAIN: | 1" NPT | | |

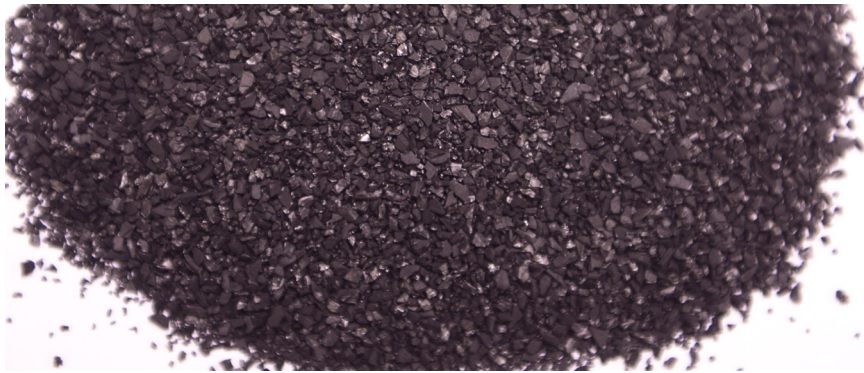
B	UPDATED TO NEW CAD STANDARDS	RJS	09/11/15
A	AS BUILT	RJS	10/02/12
NO.	REVISIONS	BY	DATE
TITLE: EQUIPMENT SPECIFICATION STANDARD 2,000 LBS CARBON ADSORBER			
SCALE:	NTS	APPROVED BY:	RJS
DATE:	10/02/12	DRAWN BY:	RJS
GWTT <small>Ground/Water Treatment & Technology, LLC</small>		627 MOUNT HOPE ROAD • WHARTON, NJ 07885	
		PHONE: 973-983-0901 • FAX: 973-983-0903 www.gwttllc.com	
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DWG SIZE: A	SHEET: 1 OF 1	DRAWING NO.:	ST-000380-SPC01 B



COL - GL 60R (8x30)

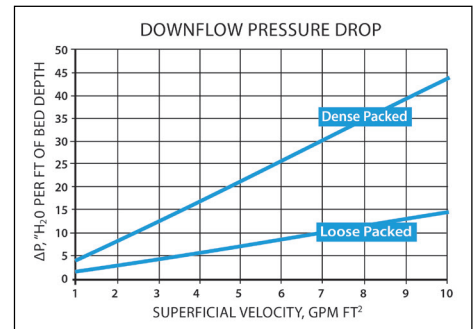
LIQUID PHASE REACTIVATED CARBON

COL-GL 60R (8 x 30) is a hard, reactivated, carbon manufactured from pooled spent carbon which is recommended for a variety of waste water and process water treatment. **COL-GL 60R (8 x 30)** efficiently removes chlorine, taste and odor compounds, and volatile organics, even with brief contact times.



APPLICATIONS

- Remediation
- Wastewater Treatment
- Condensate Water Treatment
- Range of Process Water Treatment



SPECIFICATIONS	COL-GL60R	ASTM TEST M
Iodine Number, min	800	-
Bulk Density, typical	0.50-0.56g/cc	D-2854
Abrasion No., mi.	75	-
Effective Size, mm	0.8-1.0	-
Moisture as packed	2%	D-2867
U.S. Standard Sieve Size	8 x 30	-
Larger than No. 8, max.	15%	
Smaller than No. 30, max.	5%	

STANDARD PACKAGING

- 55 lb or 27.5 lb polylined polypropylene bags
- 200 lb fiber drums
- 1100 lb supersacks



This information is offered solely for your consideration and verification. It has been gathered from reference materials and/or test procedures and is believed to be true and accurate. None of this information shall be constituting a warranty or representation, expressed or implied, for which we assume legal responsibility or that the information or goods described is fit for any particular use either alone or in combination with other goods or processes.



NORIT® GAC 400

Granular Activated Carbon

WHY CABOT

Cabot Norit Activated Carbon is a premier activated carbon manufacturer respected for experienced people, diverse products and strong customer relationships. Cabot's history of innovation, product performance, technical expertise and customer focus ensure that you receive the right products and solutions for your specific purification needs.

NORIT GAC 400 granular activated carbon is produced by steam activation of select grades of coal. As a result of a unique patented activation process and stringent quality control, NORIT GAC 400 granular activated carbon offers excellent adsorption properties and is recommended for removal of impurities from water and industrial process applications. NORIT GAC 400 granular activated carbon meets all AWWA B604 standards for potable water use and meets NSF/ANSI Standard 61.

NORIT GAC 400 granular activated carbon is Kosher certified and meets the requirements of the latest version of the U.S. Food Chemicals Codex.



SPECIFICATIONS		
Iodine number	min. 1000	-
Abrasion number (AWWA)	min. 75	-
Particle size > 12 mesh (1.70 mm)	max. 5	%
Particle size < 40 mesh (0.425 mm)	max. 4	%
Moisture (as packed)	max. 2	%

GENERAL CHARACTERISTICS		
Apparent density, vibrating feed	0.49	g/ml
	31	lb/ft³
Density, backwashed and drained	27	lb/ft³
Effective size	0.7	mm
Uniformity coefficient	1.6	-

NORIT® GAC 400

Granular Activated Carbon

NOTES

1. For important product safety, health, environmental and regulatory information, please refer to the Safety Data Sheet (SDS) which is available upon request.
2. General characteristics reflect representative values of product parameters and are not to be used as purchase specifications.
3. All analyses based on standard test methods and specifications are guaranteed values based on lot-to-lot quality control, as covered by Cabot Norit Activated Carbon's ISO 9001 certification.

PACKAGING

This product is available in:

- 55 lb bag, 45 bags per pallet for a net pallet weight of 2475 lb
- Woven polypropylene bulk bag, 1000 lb net

Product availabilities depend on the type of packaging.



cabotcorp.com

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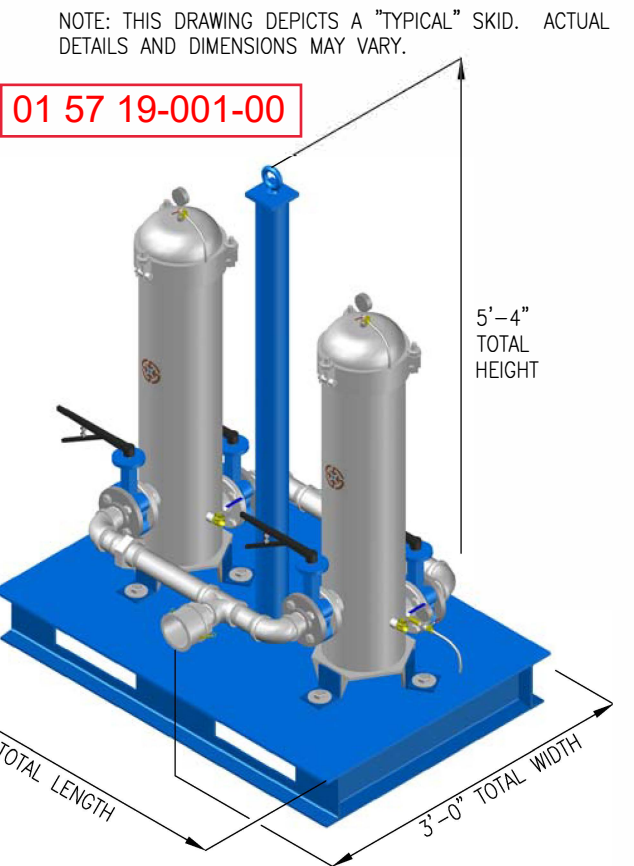
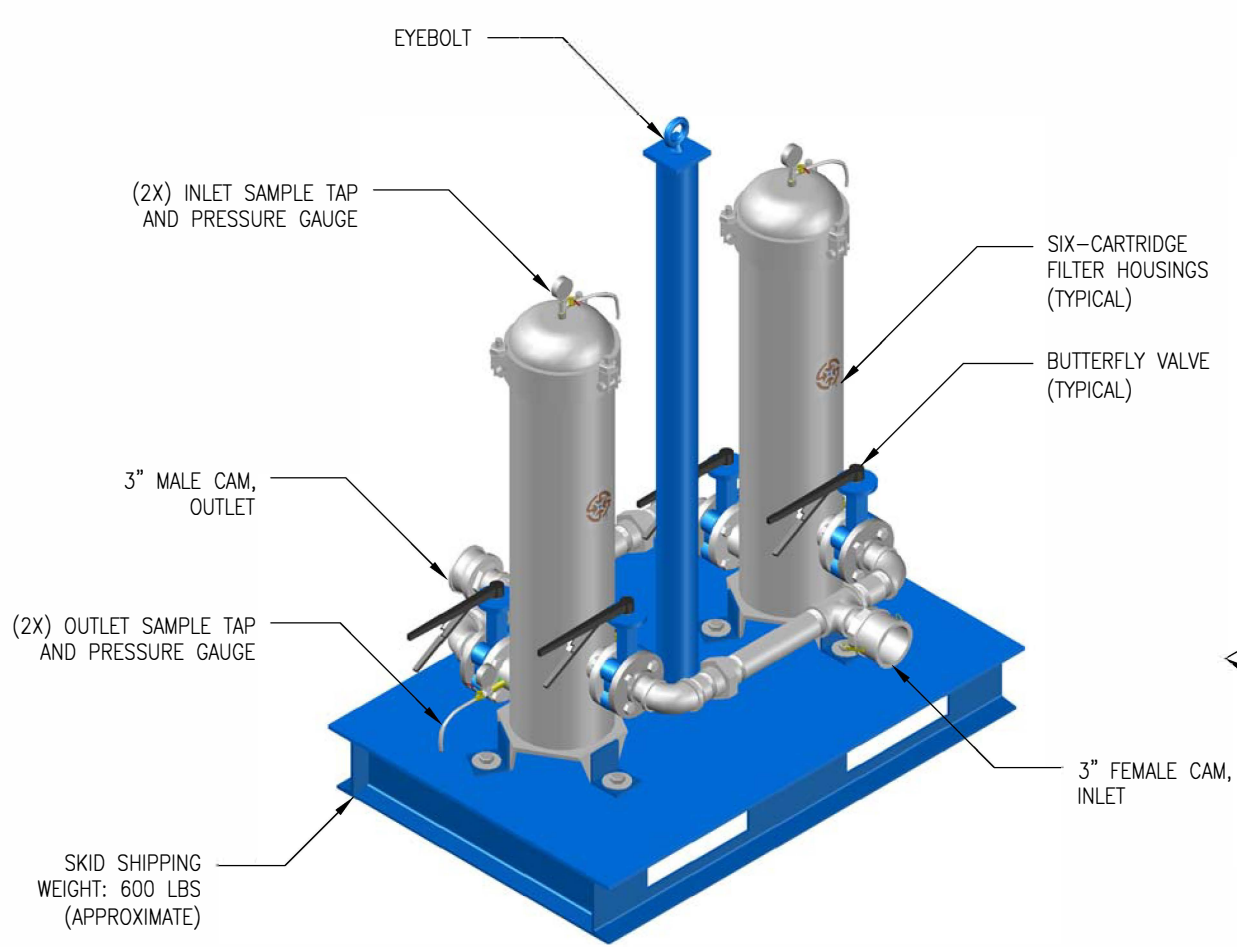
SOUTH AMERICA

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NOTE: THIS DRAWING DEPICTS A "TYPICAL" SKID. ACTUAL DETAILS AND DIMENSIONS MAY VARY.

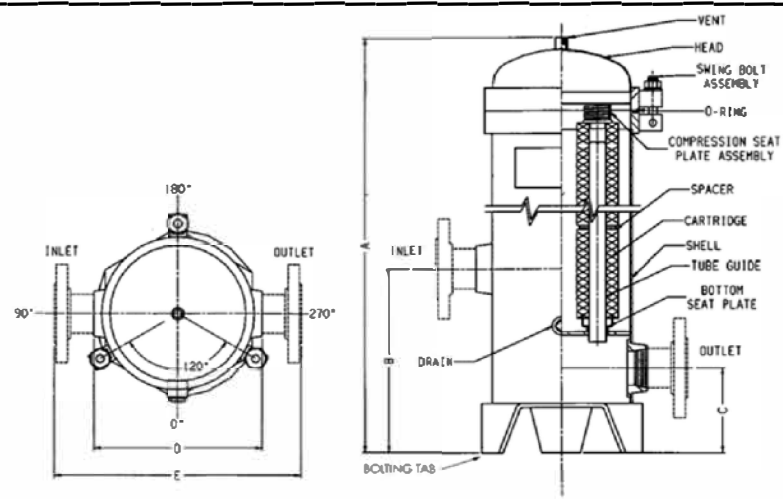
01 57 19-001-00

18FM03A - 2IP MULTI CARTRIDGE HOUSING SPECIFICATIONS

- CARTRIDGES NUMBER/LENGTH: 6/30"
- FLOW RATE: 90 GPM **
- HOUSING CONSTRUCTION: 304 STAINLESS STEEL
- CLOSURE STYLE: SWING BOLT ASSEMBLY
- DESIGN PRESSURE: 150 PSI @ 200°F
- INLET/OUTLET CONNECTIONS: 2" NPT
- DRAIN: 1/2" NPT
- VENT: 1/4" NPT
- MAX. CARTRIDGE DIAMETER: 2-1/8" OD
- HOUSING SHIPPING WEIGHT: 48 Lbs.

** ACTUAL FLOW RATES ARE BASED ON FLUID, VISCOSITY, CARTRIDGE TYPE, MICRON RATINGS AND OTHER FACTORS.

- A: 45" B: 11-1/8" C: 5-1/8"
- D: 10-3/16" E: 15"



B	UPDATED TO NEW CAD STANDARDS	RJS	11/02/15
A	TYPICAL	RJS	11/17/11
NO.	REVISIONS	BY	DATE

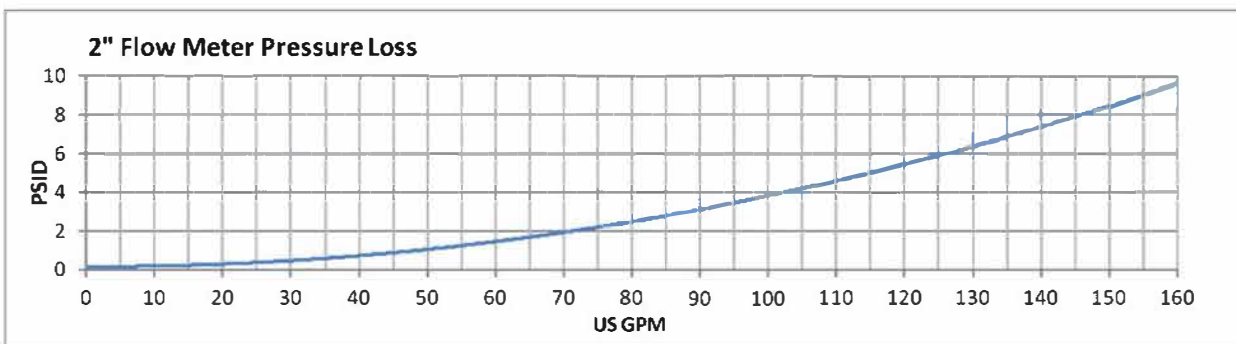
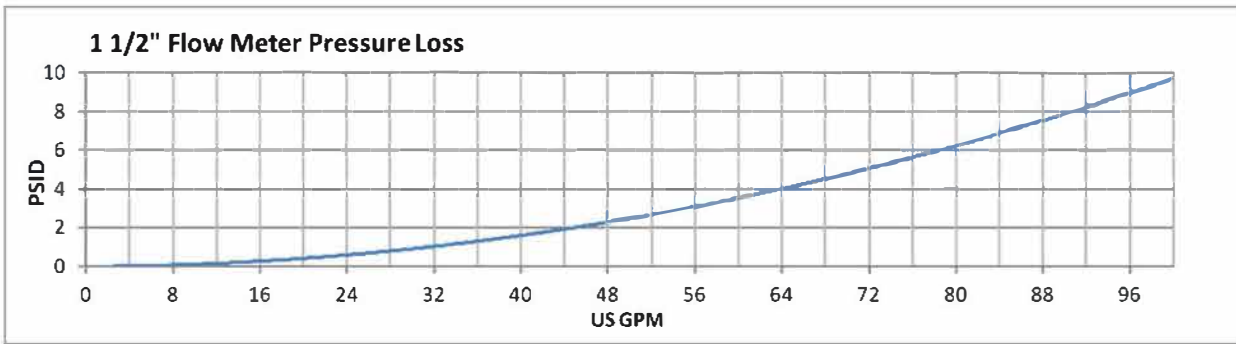
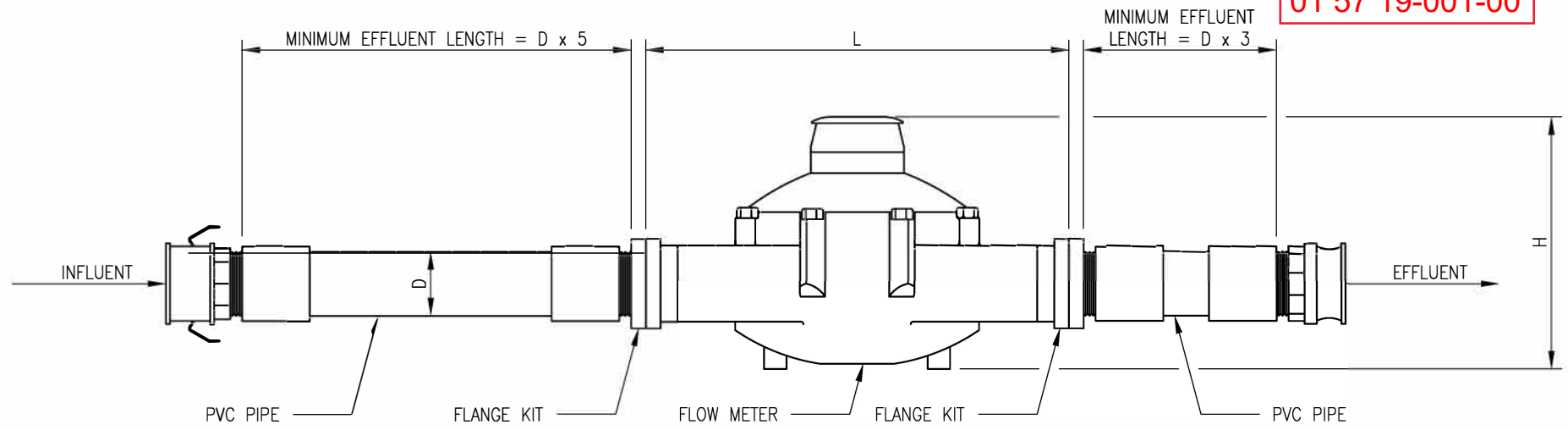
TITLE: **EQUIPMENT SPECIFICATION
STANDARD
DUPLEX 6-CARTRIDGE FILTER SKID**

SCALE: NTS	APPROVED BY: RJS	DRAWN BY: RJS	
DATE: 11/17/11			

GWTT
Ground Water Treatment & Technology, LLC
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 PHONE: 973-983-0901 • FAX: 973-983-0903
 www.gwttllc.com

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01 57 19-001-00



T-10 FLOW METER SPECIFICATIONS		
METER SIZE, D (INCHES):	1-1/2	2
MAXIMUM FLOW U.S. GPM:	100	160
MINIMUM FLOW U.S. GPM:	2	2-1/2
HEAD LOSS IN INCHES AT MAX FLOW:	23.12	23.12
H (INCHES):	8.13	9.31
L (INCHES):	13	17
MIN. INFLUENT LENGTH (INCHES):	10	12
MIN. EFFLUENT LENGTH (INCHES):	6	8
MAXIMUM TEMPERATURE:	80°F CONSTANT	
PRESSURE RATING:	150 PSI	

B	UPDATED TO NEW CAD STANDARDS	RJS	09/08/15
A	TYPICAL	RJS	03/21/12
NO.	REVISIONS	BY	DATE

TITLE:
STANDARD
EQUIPMENT SPECIFICATION
T-10 FLOW METER ASSEMBLY

SCALE:	NTS	APPROVED BY:	RJS	DRAWN BY:	RJS
DATE:	03/21/12				

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LB-800 • LBT-800 Slimline design pumps fits into 8" pipes. Powerful pump built with durable materials in an easy handling design. Top discharge provides maximum motor cooling efficiency allowing continuous duty operation at low levels and extended dry-run capability.

LB-800A features Relay Unit (Level Sensor) which incorporates low voltage, stainless steel probes, epoxy and rubber encapsulated timing relay, that turns the unit off when water is not present. It saves energy and extends the life of the motor and bearings!



LB(T)-800



LB-800A

LB-800 (Single Phase) • LBT-800 (Three Phase) Features

- Designed to fit an 8" pipe
- Up to 59' shut off head
- Available in 230V single-phase
- Dual Inside Mechanical Seal With SiC faces provides longer operational life
- Oil Lifter provides lubrication of the seal faces (Patented)
- LB-800 (Single Phase) and LBT-800 (Three Phase) are available

Optional Accessories - See page 28-31

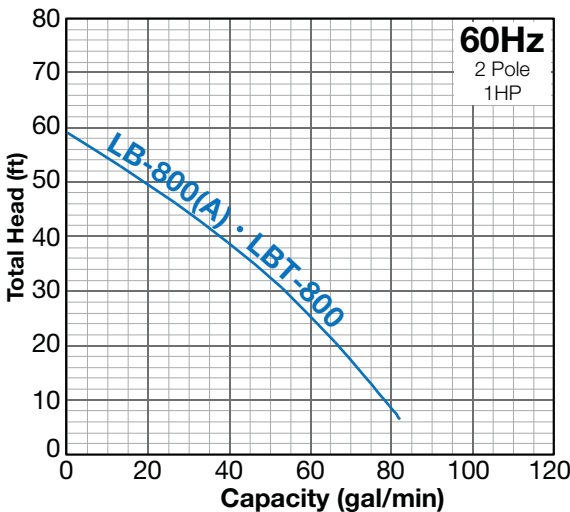
- Float Switch for automatic operation (TS-302 for 115V, TS-303 for 230V)
- Discharge hoses
- Quick connect fittings

LB-800A (Single Phase) pump Features

- Up to 59' shut off head
- Dual Inside Mechanical Seal With SiC faces provides longer operational life
- Oil Lifter provides lubrication of the seal faces (Patented)

Technical Features of Automatic (A) Water Level Sensor

- Sensitive electrodes detect water to start pump cycling even when foreign materials are present
- Internal 60-second timer eliminates frequent on/off cycling in rough water to extend motor life
- Automatic water level sensor completely molded in resin and covered by rubber case for protection against rough handling.
- Jobsite tested for more than 30,000 on-off cycles without failure or damage



LB-800 • LBT-800

Certified by Intertek Testing Service to UL and CSA standards for submersible construction pumps.

Model	Motor Output (HP)	Phase	Discharge Bore (inch)	Cable Length (ft)	Dimension (inch)		Continuous Running Water Level (inch)	Shipping Weight (lbs.)
					Diameter	Height		
LB-800	1	Single	2	50	7 9/16	13 7/16	2	37
LBT-800	1	Three	2	50	7 9/16	13 7/16	2	36

LB-800A

Certified by Intertek Testing Service to UL and CSA standards for submersible construction pumps.

Model	Motor Output (HP)	Phase	Discharge Bore (inch)	Cable Length (ft)	Dimension (inch)		Pump Starting Water Level (inch)	Shipping Weight (lbs.)
					Diameter	Height		
LB-800A	1	Single	2	50	8 3/4	13 7/16	6 3/4	38

SPECIFICATIONS - SINGLE PHASE PUMPS: LB • HS(Z) • HSE • HSD

01 57 19-001-00

	LB-480	LB-480A	LB-800	LB-800A	LB-1500	HS2.4S	HSZ2.4S	HS3.75S	HSZ3.75S	HSE2.4S	HSD2.55S	
	2" Dewatering Pump	2" Auto Dewatering Pump	2" Slimline Pump	2" Auto Slimline Pump	3" Slimline Pump	2" Sand/Solid Trash Pump	2" Auto Trash Pump	3" Sand/Solids Trash Pump	3" Auto Trash Pump	2" Trash Pump with Auto Water Level Sensor	2" Extreme Durable Sand Pump	
FLUID	Max. Capacity (GPM)	62.4		82	111	53		61		53	58	
	Max. Head (ft.)	39.5		59	69	39		62		39	43	
	Solid Diameter (in.)	0.236			0.276			0.394				
PUMP	Impeller	Semi-Vortex			Semi-Open	Semi-Vortex						
	Impeller Material	Urethane Rubber			High Chrome	Urethane Rubber					High Chrome	
	Casing Material	Ethylene Propylene Rubber	Butadiene Rubber & Natural Rubber		Butadiene Rubber & Natural Rubber & Steel	Gray Iron Casing					Ductile Iron Casing	
	Wear Plate Material	Urethane Rubber			Natural Rubber	Integral Part of Casing						
	Shaft Seal - Type / Material	Double Inside Mechanical Seal with Silicon Carbide faces on lower seals and Carbon Ceramic Faces on upper seals										
	Seal Lubricant - Type	SAE 10W/20W or Turbine Oil (ISO VG32)										
	Seal Lubricant Amount (oz.)	5.2			12.5	5.4						
	Seal Protection	V-Ring and Oil Lifter (Oil Lifter is patented by TSURUMI PUMP)										
	Discharge Connection	2" MNPT Coupling			3" MNPT Coupling (2" is optional)	2" MNPT Coupling	3" MNPT Coupling (2" optional)		2" MNPT Coupling			
	MOTOR	Motor Output (HP)	2/3	1	2	1/2		1		1/2	3/4	
Phase		Single Phase										
Voltage (V)		115 or 220		115 or 230		115 or 220		115 or 230		115 or 220	115 or 230	
Amperage - Rated Current		5.9 (115V) 3.0 (220V)	10.5 (110V) 5.2 (230V)		26.2 (115V) 13.2 (230V)	5.2 (110V) 2.7 (220V)		9.7 (110V) 4.9 (230V)		5.2 (110V) 2.7 (220V)	7.3 (115V) 3.7 (230V)	
Amperage - Starting Current		12.4 (115V) 5.9 (220V)	20.6 (110V) 12.6 (230V)		112 (115V) 56 (230V)	12.4 (110V) 5.9 (220V)		29.7 (110V) 18.5 (230V)		12.4 (110V) 5.9 (220V)	19.0 (110V) 12.6 (230V)	
Type		Continuous Duty, Air Filled, 3600 RPM, 60Hz										
Bearings		Double shielded, permanently lubricated, high-temp C3 with B-10 life of 60,000 hours										
Insulation Class		E			B	E						
Motor Protection (Built-In)		Miniature Protector	Circle Thermal Protector			Miniature Protector	Circle Thermal Protector					
Plug Configuration (Nema)		5-15P (115V) No Plug (220V)	5-15P (115V) No Plug (230V)		No Plug	5-15P (115V) No Plug (220V)		5-15P (115V) No Plug (230V)				
Cable - # of Conductors x AWG		3C x 16AWG		3C x 14AWG		3C x 12AWG(110V) 3C x 12AWG (230V)	3C x 16AWG		3C x 14AWG		3C x 16AWG	
Standard Cable Length (ft.)		32		50		20		32		20	32	
Max. Cable Length (ft.)		110 (115V) 420 (220V)	100 (115V) 400 (230V)		70 (115V) 160 (230V)	125 (115V) 460 (220V)		100 (115V) 430 (230V)		120 (110V) 460 (220V)	90 (115V) 350 (230V)	
Recommended Generator Capacity (watts)	2700		4600		8400	2400		3700		2400	2900	
Optional Float Switch	TS-301	N/A	TS-302 (110V) TS-303 (230V)	N/A	TS-303 (230V) operation only	TS-301 (110V)	N/A	TS-302	N/A	N/A	TS-301	
DIMENSION	Diameter (in.)	7 3/8	8 3/4	7 9/16	8 3/4	7 3/8	10 1/16	13 1/2	12 7/16	13 1/2	10 1/16	10 3/8
	Height (in.)	11 1/4	11 1/4	13 7/16	13 7/16	23 5/16	12 15/16	15 1/8	15 1/3	17 1/2	14 1/8	15 3/8
	Continuous Running Water Level (C.W.L) (in.)	2	4 1/2 (Pump Starting Water Level)	2	6 3/4 (Pump Starting Water Level)	3 1/8	3 1/2	15 1/8 (Pump Starting Water Level)	3 1/2	17 1/2 (Pump Starting Water Level)	6 1/2 (Pump Starting Water Level)	4 1/8
	Shipping Weight (lbs.)	28	29	37	38	85	30	30	50	50	30	39



Spill Containment Berms

Material: 40 mil polyethylene
 Height: 1'
 Width: 12'
 Length: 50'
 Tare Weight: 150 lbs

At Adler Tank Rentals, we are committed to providing safe and reliable containment solutions for all types of applications where performance matters.

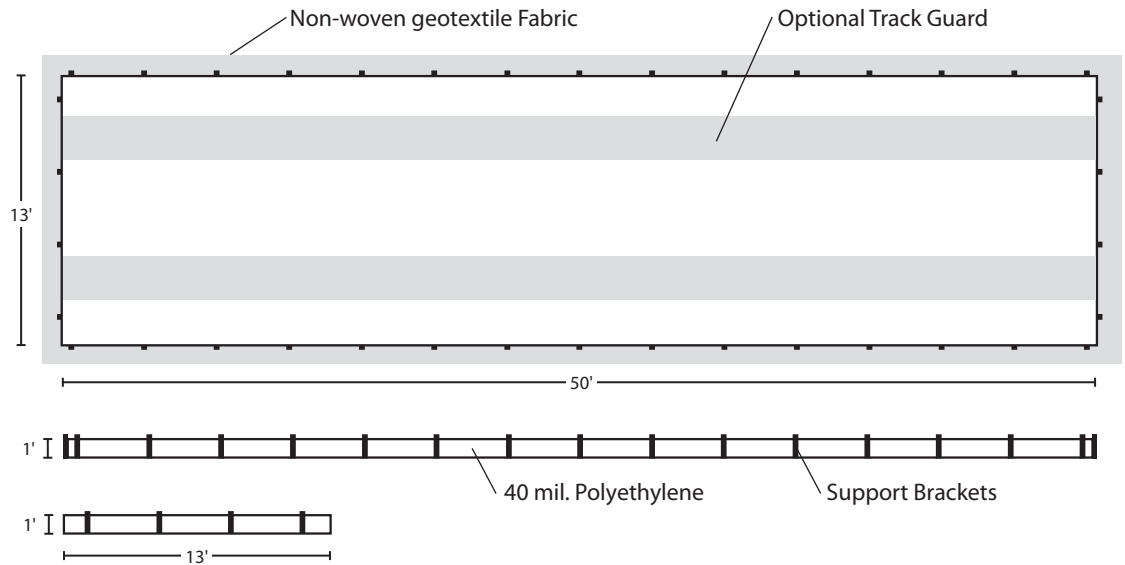
Spill Containment Berms are lightweight, flexible units that can be easily transported and offer the defense of a puncture-resistant ground cover. They are easily assembled and can be repaired for multiple use.



Mechanical Features

- Also available in 10' x 25', 10' x 50', 12' x 25', 13' x 50' and custom sizes
- UV and chemical resistant
- Lightweight, flexible units can be easily transported
- Easily assembled, repaired and reused
- Non-woven geotextile fabric ground cover protects from ground punctures
- Optional track guard protects against tire abrasions and rock punctures
- Aluminum side slats support spill guard

Spill Containment Berms



Applications

- Roll-off containers
- Tanker trucks
- DOT tanks
- Wash pads
- Drum storage
- Frac tanks

Comprehensive Service

Adler Tank Rentals provides containment solutions for hazardous and non-hazardous liquids and solids. We offer 24-hour emergency service, expert planning assistance, transportation, repair and cleaning services. All of our rental equipment is serviced by experienced Adler technicians and tested to exceed even the most stringent industry standards.

