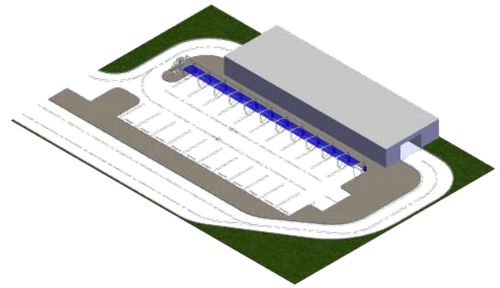
Sonny's CarWash Vacuums by AUTOVAC

TAKE 5 - 065
240344

3017 MARKETPLACE AVENUE
BRYANT, AR 72022

ELEVATION: 380 FT M.S.L.



THIS DRAWING IS THE PROPERTY OF AUTOVAC. THIS PRELIMINARY DRAWING IS NOT TO BE USED FOR CONSTRUCTION OR INSTALLATION WITHOUT THE WRITTEN CONSENT OF AUTOVAC.

VACUUM SYSTEM PIPING DESIGN NOTES:

INDOOR/OUTDOOR ABOVE GROUND PIPING:
PIPING SYSTEM SHALL BE EITHER (1) SCHEDULE 40 SOLID CORE PVC OR ABS PLASTIC PIPE D.W.V. (DRAIN, WASTE, AND VENT) FITTINGS. (2) ZINC GALVANIZED OR ALUMINUM TUBING\PIPING AND SHALL HAVE DIRECTIONAL FLOW FITTINGS OF NO LESS THAN 16 GAUGE. NON PLASTIC PIPE\TUBE AND FITTINGS SHALL BE DESIGNED SPECIFICALLY FOR CENTRAL VACUUM SYSTEMS. NON PLASTIC PIPE\TUBE AND FITTING CONNECTIONS SHALL BE SHRINK SLEEVE OR COMPRESSION COUPLINGS. (3) ALUMINUM PIPE\TUBING USED WITH PLASTIC FITTINGS SHALL BE PROPERLY SEALED.

IN-GROUND PIPING:
IN-GROUND PIPING SYSTEM SHALL BE EITHER (1) SCHEDULE 40 SOLID CORE PVC OR ABS PLASTIC PIPE, WITH PLASTIC D.W.V. (DRAIN, WASTE, AND VENT) FITTINGS. (2) ZINC GALVANIZED TUBING\PIPING AND SHALL HAVE DIRECTIONAL FLOW FITTINGS OF NO LESS THAN 16 GAUGE. NON PLASTIC PIPE\TUBE AND FITTINGS SHALL BE DESIGNED SPECIFICALLY FOR CENTRAL VACUUM SYSTEMS. NON PLASTIC PIPE\TUBE AND FITTING CONNECTIONS SHALL BE SHRINK SLEEVE OR COMPRESSION COUPLINGS. PLASTIC PIPE INSTALLED IN-GROUND HAVE A POTENTIAL POSSIBILITY OF CRACKING AND WEAR. AUTOVAC DOES NOT RECOMMEND PLASTIC PIPE FOR IN-GROUND APPLICATIONS. ALL PIPE SYSTEMS IN-GROUND MUST BE BELOW FREEZE LINE.

PIPING PREPARATION:
ALL INTERIOR SURFACES OF PIPE AND FITTINGS SHALL BE FREE OF BURRS AND OBSTRUCTIONS FOR NON-RESTRICTIVE AIR FLOW. ABS AND PVC PIPING SHALL BE CUT STRAIGHT AND BURRS REMOVED. PIPING SHALL BE ATTACHED TOGETHER USING A PRIMER AND CEMENT (CLEAR PVC CEMENT FOR PVC AND BLACK ABS CEMENT FOR ABS) FOR 100% SEAL.

PIPING SUPPORT:
OVERHEAD PIPING SYSTEMS SHALL BE SUPPORTED WITH APPROVED PIPE HANGERS AND SHALL BE INSTALLED AT A MAXIMUM OF SIX FEET O.C. WHEN USING ABS OR PVC PIPE AND TEN FEET WHEN USING ZINC OR ALUMINUM TUBING. ALL FITTINGS SUPPORTING VACUUM DROPS/HOSE ASSEMBLIES SHALL BE SUPPORTED WITHIN ONE FOOT ON EACH SIDE OF THE FITTING CONNECTION. WHEN UTILIZING AUTOVAC'S VACUUM STANCHIONS AND STRUCTURES ALUMINUM PIPE SHOULD BE USED TO PREVENT PIPE SAG BETWEEN STRUCTURES.

PLASTIC PIPE WARNINGS:
PVC PIPE WILL BECOME BRITTLE AT 40° F AND CAN CRACK/SPLIT WHEN MOVING DEBRIS COLLIDES WITH IT. IT IS RECOMMENDED TO USE ZINC OR ALUMINUM TUBING FOR COLDER CONDITIONS. PVC AND ABS PLASTIC PIPE ARE NOT U.V. RATED AND WILL DISCOLOR AND SOFTEN CAUSING PIPE SAG WHEN EXPOSED TO DIRECT SUNLIGHT. IT IS RECOMMENDED THAT ALL EXPOSED PLASTIC PIPE AND FITTINGS TO BE PRIMED AND PAINTED TO HELP PREVENT THIS. IT IS RECOMMENDED TO USE ZINC OR ALUMINUM TUBING WITH ZINC FITTINGS WHEN EXPOSED TO DIRECT SUNLIGHT.

PIPING FOR COMBUSTIBLE DUST CONVEYING SYSTEMS:
WHEN CONVEYING COMBUSTIBLE DUST MATERIAL, THE FOLLOWING STANDARDS MY BE REQUIRED. NFPA 654 - PROCESSING AND HANDLING OF COMBUSTIBLE PARTICULATE. NFPA 68 STANDARD ON EXPLOSION PREVENTION THROUGH DEFLAGRATION. NFPA 69 - STANDARD ON EXPLOSION PREVENTION SYSTEMS. NFPA 77 - RECOMMENDED PRACTICE ON STATIC ELECTRICITY. NFPA 70 - NATIONAL ELECTRIC CODE. PLEASE CONSULT WITH AUTOVAC'S ENGINEERING DEPARTMENT IF REQUIREMENTS ARE APPLICABLE. ADDITIONAL FEES APPLY FOR EACH COMPLIANCE REQUEST.

VACUUM SYSTEM EQUIPMENT DESIGN NOTES: (IF APPLICABLE)

VACUUM PRODUCER:
VACUUM PRODUCER EQUIPMENT PAD MUST BE FLAT AND LEVEL. VACUUM PRODUCER SHALL NOT BE "HARD" MOUNTED TO THE FLOOR. ISOLATOR PADS ARE TO BE USED UNDER FRAME FEET. VACUUM PRODUCER SHALL BE PROPERLY VENTILATED. IF LOCATED IN ANY EQUIPMENT ROOM THAT IS ENCLOSED, PROPER FRESH AIR VENTS SHALL BE INSTALLED. ENCLOSURE DOOR MUST BE LOUVERED AND A PROPERLY SIZED EXHAUST FAN MUST BE INSTALLED TO TURN OVER AIR EVERY 3 MINUTES. AMBIENT ROOM TEMPERATURE CANNOT EXCEED 105° F. VACUUM PRODUCER EXHAUST MUST BE EXHAUSTED OUTSIDE WITH A METALLIC PIPE NO SMALLER THAN 6". EXHAUST PIPING SHALL NOT EXCEED 25 FEET. EXHAUST PIPE OPENING SHALL BE PROTECTED FROM ELEMENTS.

ELECTRICAL REQUIREMENTS:
ELECTRICAL COMPONENTS SHALL MEET NEC CODE REQUIREMENTS. IF UL OR NFPA REQUIREMENTS ARE TO BE MET THEN IT SHOULD BE REQUESTED IN ADVANCE. ALL CODE VERIFICATION AND CONFORMATION ARE RESPONSIBILITY OF OWNER. AUTOVAC CAN SUPPLY NEEDED ITEMS TO MEET CODE REQUIREMENTS FOR A FEE. IF CODE REQUIREMENTS ARE NOT LISTED IN THIS DRAWING THEY ARE NOT A PART OF THE SCOPE.

VACUUM IQ MOTOR CONTROL CENTER (VARIABLE FREQUENCY DRIVE (VFD):
EACH VFD MUST BE WIRED FROM MAIN DISTRIBUTION PANEL WITH APPROPRIATE SIZED WIRE AND CONDUIT (SIZED PER CODE: BASED ON TURBINE H.P. AND VOLTAGE) TO EACH VFD AND FROM EACH VFD TO MOTOR. A SEPARATE CONDUIT (SIZED PER CODE) MUST ALSO BE INSTALLED FROM MOTOR CONTROL PANEL TO VACUUM PRESSURE TRANSDUCER INSTALLED ON FILTER SEPARATOR. VFD MUST BE INSTALLED IN A DRY AND CLEAN, CLIMATE CONTROLLED ENVIRONMENT.

VACUUM SYSTEM INSTALLATION NOTES

INSTALLATION BY OTHERS:
AUTOVAC PROVIDES INSTALLATION AND REFERENCE DRAWINGS FOR ALL PROJECTS IN WHICH AUTOVAC SUPPLIES THE VACUUM AND PIPING SYSTEM. ALL REFERENCE TO INFORMATION CONTAINED HEREIN IS FOR REFERENCE ONLY AND SHOULD BE VERIFIED TO MEET LOCAL AND APPLICABLE CODES AND RULES. WHEN REQUESTED, AUTOVAC CAN ESTIMATE THE NUMBER OF DAYS REQUIRES FOR INSTALLATION. PIPING SIZES, LENGTHS AND ROUTING CONTAINED HEREIN ARE ENGINEERED FOR THE SPECIFIC SITE AND USER REQUIREMENTS DESIGNATED BY THE PURCHASER. ANY CHANGE TO PIPE SIZING, LENGTH OR ROUTING WILL VOID ALL WARRANTIES EXPRESSED BY AUTOVAC EITHER WRITTEN IN THIS DOCUMENT OR IN ANY OTHER DOCUMENT OR CONTRACT.

INSTALLATION BY AUTOVAC:
AUTOVAC OFFERS INSTALLATION OF ITS EQUIPMENT AS A SEPARATE CHARGE PER CONTRACT. AUTOVAC OFFERS ITS INSTALLATION AND IS LIMITED TO LISTED ITEMS NOTED IN THE INSTALLATION DOCUMENTS. ALL COMPONENTS REQUIRING A LICENSED INDIVIDUAL TO INSTALL WILL BE INSTALLED BY OTHER ENTITIES.

VACUUM SYSTEM START UP AND COMMISSIONING:
AUTOVAC OFFERS VACUUM COMMISSIONING AS AN OPTION FOR ITS CLIENTS. AUTOVAC CAN EITHER BE PRESENT ONSITE OR COMPLETE THE STARTUP PROCEDURES REMOTELY VIA VIDEO CONFERENCE. CERTAIN REQUIREMENTS APPLY SO PLEASE CONTACT YOUR AUTOVAC REPRESENTATIVE FOR INFORMATION

VACUUM SYSTEM ENGINEERING, LICENSING, PERMITS AND FEES

VACUUM SYSTEM \ STRUCTURAL ENGINEERING:
AUTOVAC ENGINEERS ALL OF ITS VACUUM SYSTEMS IN HOUSE. THIS CONSISTS OF VACUUM USAGE ANALYSIS, PIPE SIZING AND PIPE ROUTING. STRUCTURAL ENGINEERING ON ANY OF AUTOVAC PRODUCTS IS AVAILABLE AT AN ADDITIONAL FEE AND IS NOT INCLUDED IN THE QUOTED PRICE OR DOCUMENT SET UNLESS SPECIFICALLY NOTED AS "***STRUCTURAL*** ENGINEERING INCLUDED". STRUCTURAL ENGINEERING IS COMPLETED BY A LICENSED STRUCTURAL ENGINEER IN THE MUNICIPALITY OF THE JOB SITE.

VACUUM SYSTEM INSTALLATION BY LICENSEE:
AUTOVAC HOLDS A CLASS B GENERAL CONTRACTING LICENSE AND CAN INSTALL ON A CONTRACT BASIS IN 50 STATES EITHER DIRECTLY OR THROUGH AFFILIATE LICENSEE SUBCONTRACTORS. LICENSED INSTALLATION IS AN OPTION THROUGH THE INSTALLATION PROCESS. UNLESS OTHERWISE NOTED, ALL INSTALLATION IS CONSIDERED THROUGH THE MANUFACTURER WHEN A LICENSEE IS NOT REQUIRED. IT IS THE RESPONSIBILITY OF THE PURCHASER TO DETERMINE THE CORRECT REQUIREMENTS FOR THE INSTALLATION.

VACUUM SYSTEM INSTALLATION PERMITS AND FEES:
AUTOVAC DOES NOT INCLUDE ANY PERMITS, TAXES OR FEES IN ANY OF ITS INVOICING OR DRAWINGS. ALL SUCH ITEMS WILL BE AN ADDITIONAL CHARGE IF REQUIRED.

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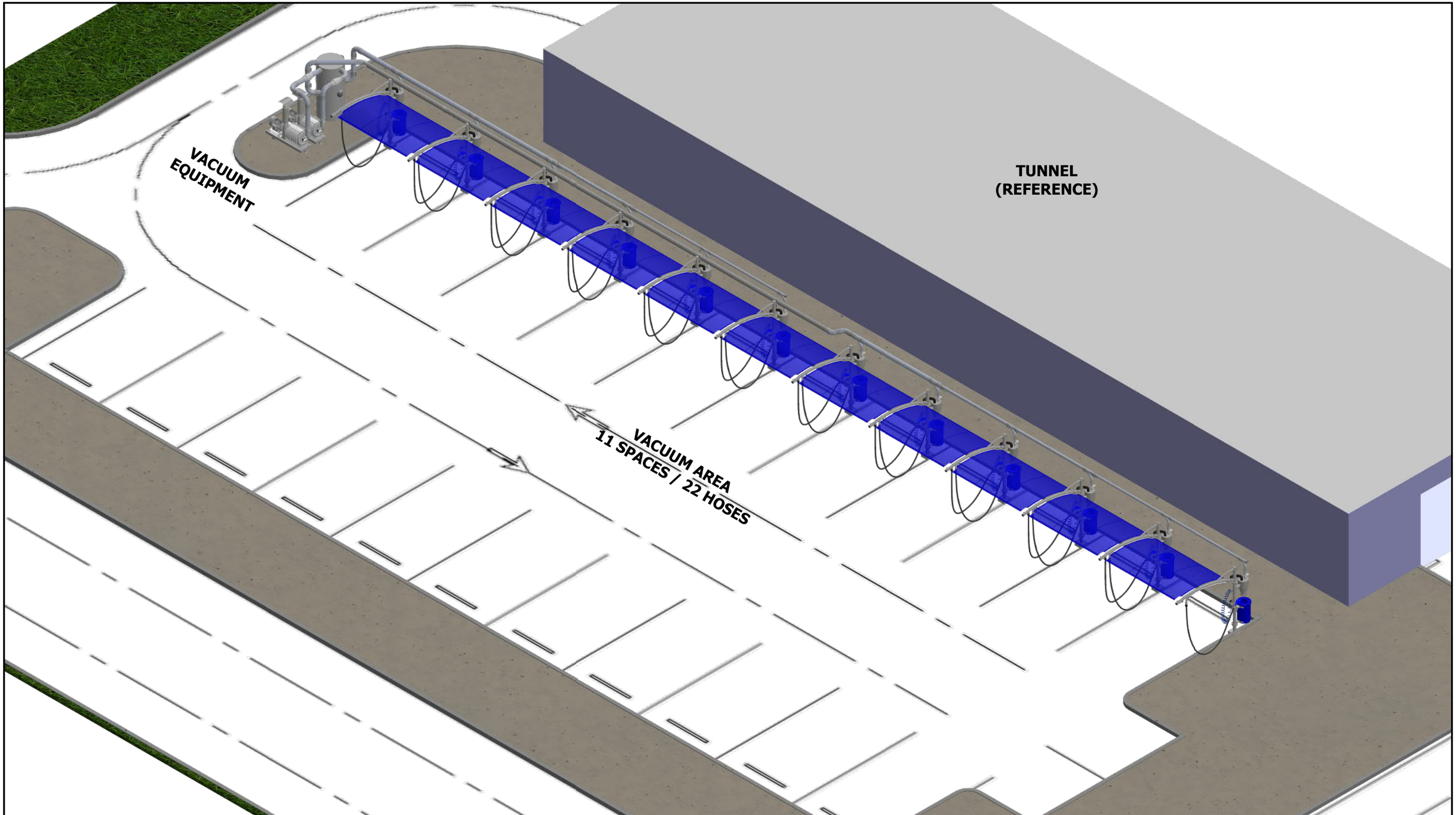
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DISCLAIMER		WV-001

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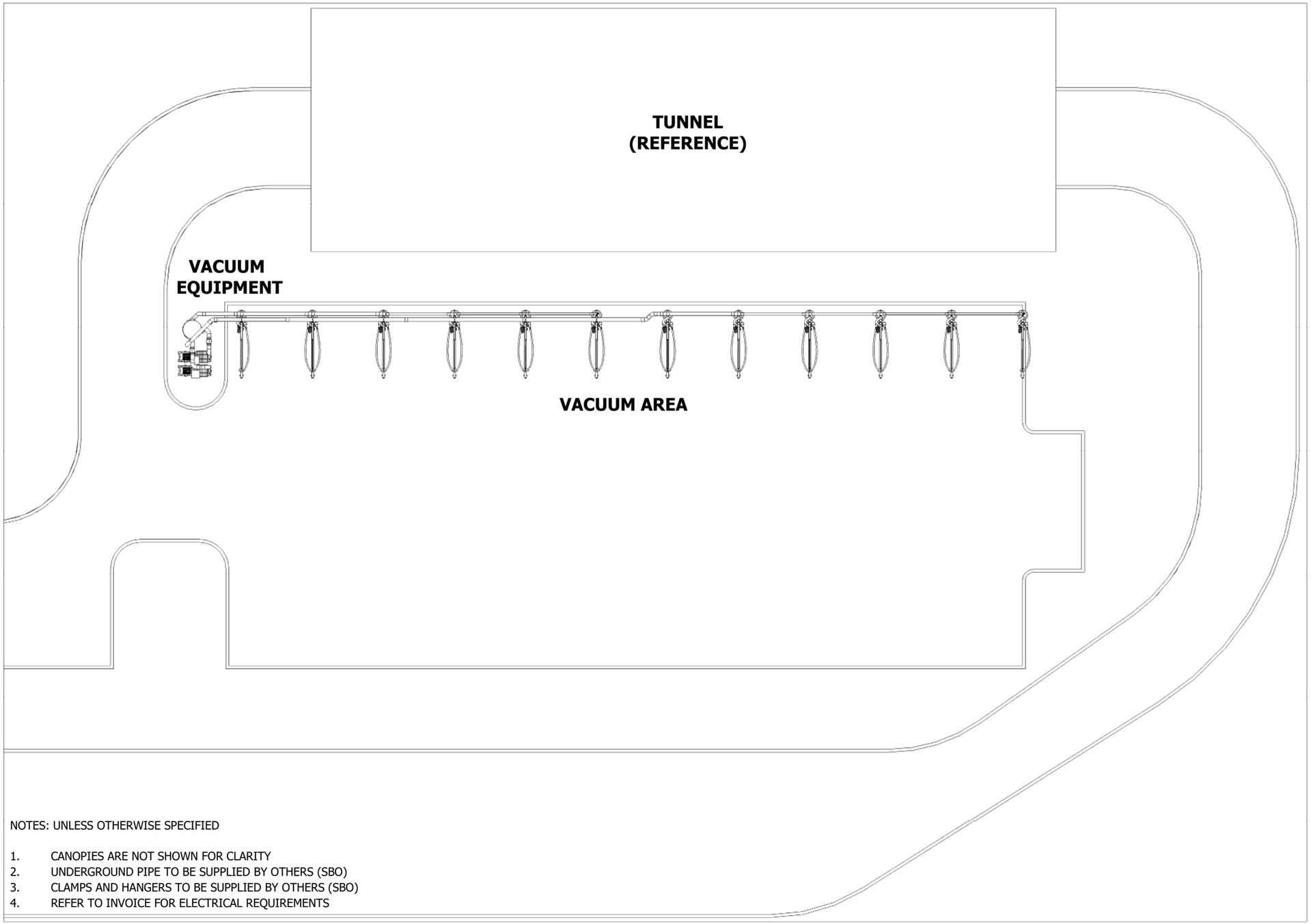
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OVERVIEW

WV-002

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NOTES: UNLESS OTHERWISE SPECIFIED

1. CANOPIES ARE NOT SHOWN FOR CLARITY
2. UNDERGROUND PIPE TO BE SUPPLIED BY OTHERS (SBO)
3. CLAMPS AND HANGERS TO BE SUPPLIED BY OTHERS (SBO)
4. REFER TO INVOICE FOR ELECTRICAL REQUIREMENTS

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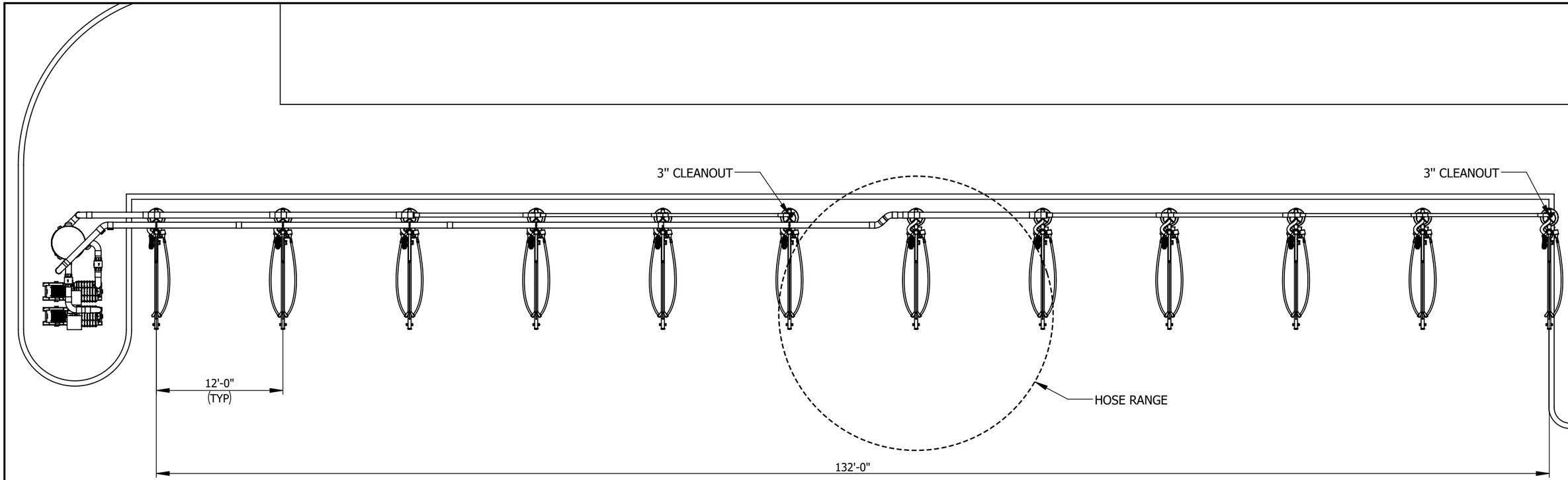
SITE PLAN VIEW

WV-003

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NOTES: UNLESS OTHERWISE SPECIFIED

1. ALL DIMENSIONS TO BE FIELD VERIFIED
2. CANOPIES ARE NOT SHOWN FOR CLARITY
3. UNDERGROUND PIPE TO BE SUPPLIED BY OTHERS (SBO)
4. CLAMPS AND HANGERS TO BE SUPPLIED BY OTHERS (SBO)
5. REFER TO INVOICE FOR ELECTRICAL REQUIREMENTS
6. IF THE EQUIPMENT IS IN AN ENCLOSED ROOM, REFER TO VACUUM SYSTEM EQUIPMENT DESIGN NOTES UNDER DISCLAIMER INFORMATION

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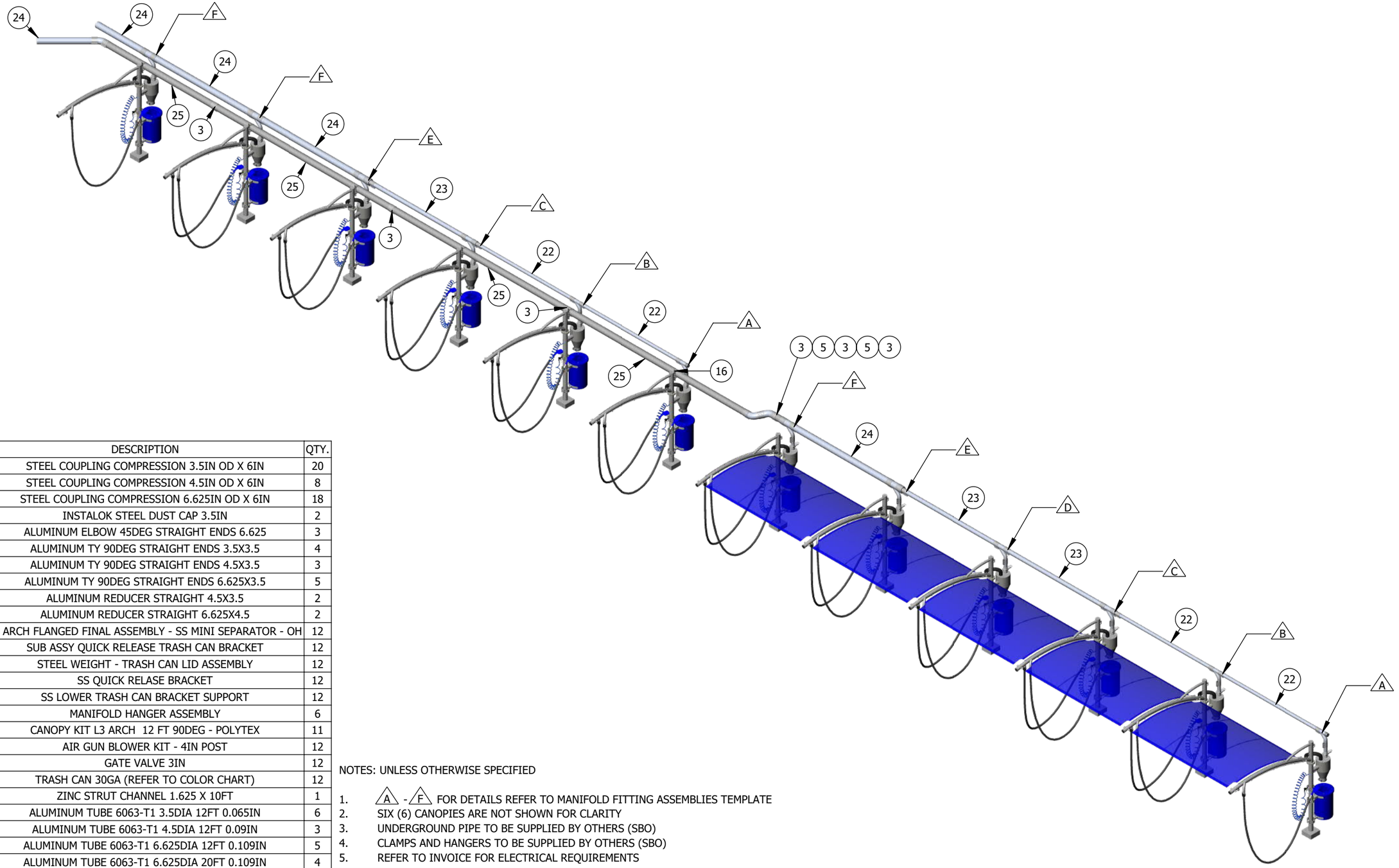
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VACUUM SYSTEM PLAN VIEW

WV-004

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	522-5431	STEEL COUPLING COMPRESSION 3.5IN OD X 6IN	20
2	522-5441	STEEL COUPLING COMPRESSION 4.5IN OD X 6IN	8
3	522-5461	STEEL COUPLING COMPRESSION 6.625IN OD X 6IN	18
4	523-0034	INSTALOK STEEL DUST CAP 3.5IN	2
5	551-2466	ALUMINUM ELBOW 45DEG STRAIGHT ENDS 6.625	3
6	551-6233	ALUMINUM TY 90DEG STRAIGHT ENDS 3.5X3.5	4
7	551-6243	ALUMINUM TY 90DEG STRAIGHT ENDS 4.5X3.5	3
8	551-6263	ALUMINUM TY 90DEG STRAIGHT ENDS 6.625X3.5	5
9	555-0234	ALUMINUM REDUCER STRAIGHT 4.5X3.5	2
10	555-0246	ALUMINUM REDUCER STRAIGHT 6.625X4.5	2
11	712-790X	L3 ARCH FLANGED FINAL ASSEMBLY - SS MINI SEPARATOR - OH	12
12	789-0004	SUB ASSY QUICK RELEASE TRASH CAN BRACKET	12
13	789-0034	STEEL WEIGHT - TRASH CAN LID ASSEMBLY	12
14	799-0042	SS QUICK RELASE BRACKET	12
15	799-0093	SS LOWER TRASH CAN BRACKET SUPPORT	12
16	801-2010X	MANIFOLD HANGER ASSEMBLY	6
17	803-95103	CANOPY KIT L3 ARCH 12 FT 90DEG - POLYTEX	11
18	804-10001	AIR GUN BLOWER KIT - 4IN POST	12
19	842-14001	GATE VALVE 3IN	12
20	881-100X	TRASH CAN 30GA (REFER TO COLOR CHART)	12
21	927-102100	ZINC STRUT CHANNEL 1.625 X 10FT	1
22	952-316207	ALUMINUM TUBE 6063-T1 3.5DIA 12FT 0.065IN	6
23	952-319210	ALUMINUM TUBE 6063-T1 4.5DIA 12FT 0.09IN	3
24	952-325213	ALUMINUM TUBE 6063-T1 6.625DIA 12FT 0.109IN	5
25	952-325513	ALUMINUM TUBE 6063-T1 6.625DIA 20FT 0.109IN	4

NOTES: UNLESS OTHERWISE SPECIFIED

1. A - F FOR DETAILS REFER TO MANIFOLD FITTING ASSEMBLIES TEMPLATE
2. SIX (6) CANOPIES ARE NOT SHOWN FOR CLARITY
3. UNDERGROUND PIPE TO BE SUPPLIED BY OTHERS (SBO)
4. CLAMPS AND HANGERS TO BE SUPPLIED BY OTHERS (SBO)
5. REFER TO INVOICE FOR ELECTRICAL REQUIREMENTS

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VACUUM AREA PARTS LIST

WV-005

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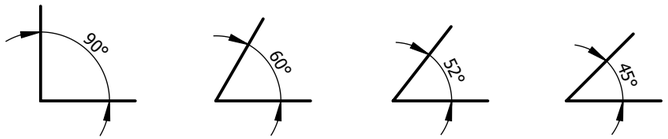
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VACUUM AREA (1)

ARCH SERIES A1 ☐ A2 ☐ L1 ☐ L3 ☒ V-ARCH ☐ L3 TELLER ☐ I7 ☐

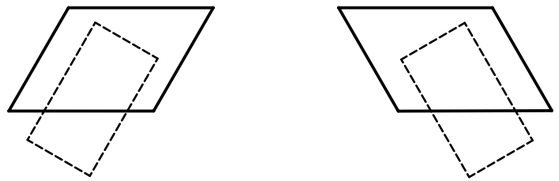
ANGLE



90 ☒ 60 ☐ 52 ☐ 45 ☐

CUSTOM ANGLE ☐

DIRECTION



LEFT ☐ RIGHT ☐

WIDTH (ft) 11 ☐ 11.5 ☐ 12 ☒ 12.5 ☐ 13 ☐ 13.5 ☐ 14 ☐ 14.5 ☐ 15 ☐ 15.5 ☐ CUSTOM DIM ☐

AMOUNT 11

COLORS



CAFE NOIR · RED · GRAPE · BRONZE · ORANGE · SANDSTONE · CAPPUCCINO · PORCELAIN · LEMON · LIME · WOODLAND GRAY · SAGE · MIDNIGHT GREEN · NAVY BLUE · AQUAMARINE · WHITE · SILVER · SLATE GRAY · BLACK · MANOR RED · MONUMENT · PAPERBARK

MORE INFO CLICK HERE

Technical Specifications		Warp	Weft
Breaking Force (per ASTM D-5034)	lbs	120	296
Elongation at Break (per ASTM D-5034)	%	75	61
Tearing strength (per ASTM D-2261)	lbs	17	25
Mullen Burst (per ASTM D-3786)	lbs/in	Face	444
Ball Burst (per ASTM D-3787)	lbf	Face	293

Polytex®+ provides maximum people protection against the sun's heat and strong Ultra Violet (UV) rays and utilizes the best UV stabilizers from BASF. It also provides good protection against wind, rain and hail.

• The above information represents the results sourced from third party testing authorities, and tolerances may vary by as much as 10%.

• The Manufacturer reserves the right to alter or modify product specifications and colors without notice, and assumes no obligation or liability for the suitability and use of its products other than those applications intended by the manufacturer.

• Outdoor fabrics are subject to harsh conditions and degradation over time is to be expected. Polytex®+ is supported with a 12 year UV warranty. During this period the
fabric will remain serviceable and fit for purpose. Color fading is normal over time. Colors containing red and yellow pigments have a tendency to fade more than others.
This is not a loss of strength caused by UV breakdown and is not covered by the product warranty. For more details refer to the supporting Polyfab product warranty.

• Polyfab USA assumes no liability in the event of negligent installation /fabrication or application or choice of cloth.

• During installation, Polyfab shadecloth should not be subject to "pre-stressed" loading in excess of 20%.

NOTES: UNLESS OTHERWISE SPECIFIED

1. COLORS SHOWN MAY NOT BE AN EXACT REPRESENTATION OF THE ACTUAL PRODUCT.
2. CANOPIES ABOVE 15.5FT LINEAR LENGTH ARE CONSIDERED OVERSIZE, AND COULD REQUIRE SPECIAL APPROVE.

INSTRUCTIONS:
Please circle each option that applies to your project

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NOTES:

COLORS REFLECTED ARE FOR REPRESENTATION PURPOSES ONLY. REFER TO INVOICE FOR SPECIFIC REQUIREMENTS.

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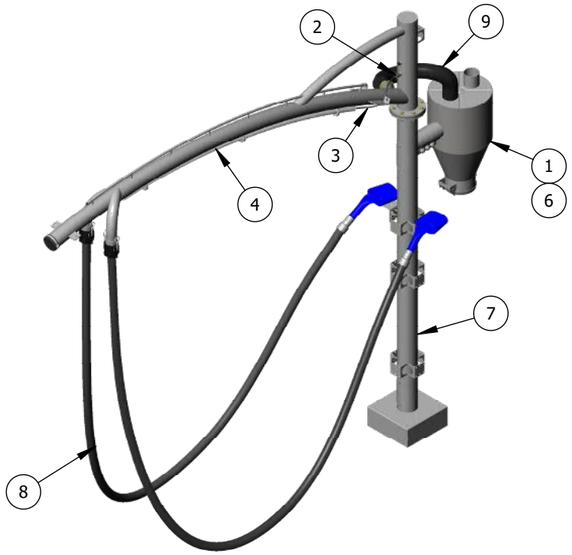
CANOPY DETAILS CHART
POLYFAB HEAVY DUTY - POLYTEX+

WV-006

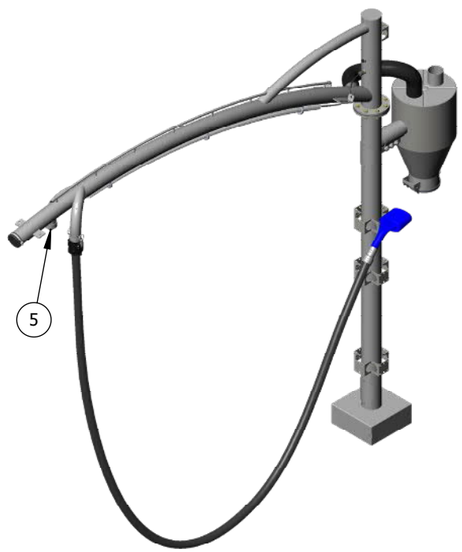
WEIGHT:	DATE:	SCALE:	REV:
lbs.	1/9/2024	NTS	A

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L3 ARCH - DOUBLE DROP ASSEMBLY - 712-7902
(10 TOTAL REQUIREMENTS)



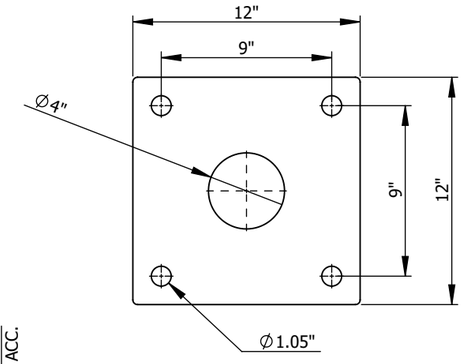
L3 ARCH - SINGLE DROP ASSEMBLY - 712-7901
(2 TOTAL REQUIREMENTS)

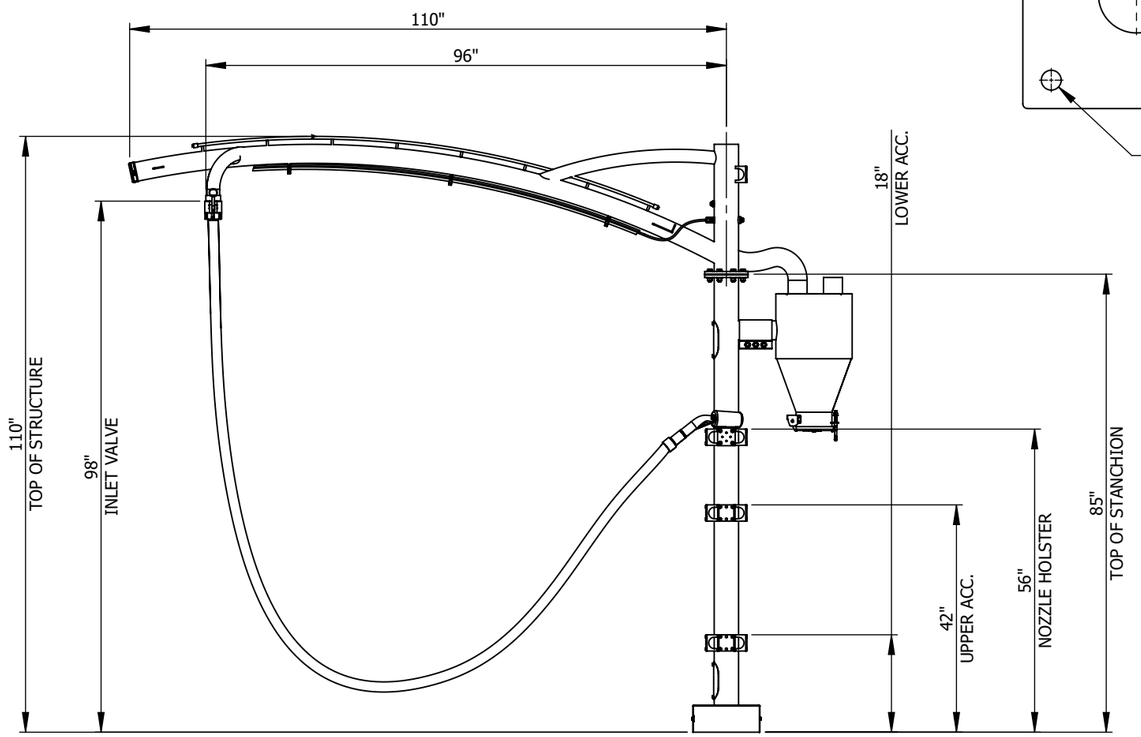


ITEM NO.	PART NUMBER	DESCRIPTION	712-7901/QTY.	712-7902/QTY.
1	370-39301	SS MINI SEPARATOR - 14X25 - REAR POST MOUNT - OH - ARCH	1	1
2	415-00001	STRAIN RELIEF CORD GRIP - PLASTIC - FOR 0.20 - 0.472	1	1
3	418-10001	10' LED POWER CORD FOR USE T8 LEDS W/ P/N 431-XXXXX	1	1
4	431-6000X	6' LED 2650 LUMENS T8 W/ INTEGRATED DRIVER	1	1
5	517-6822	ABS PLUG THREADED 2	1	-
6	522-5431	STEEL COUPLING COMPRESSION 3.5IN OD X 6IN	1	1
7	712-7000	L3 ARCH FLANGED FINAL ASSEMBLY - OH	1	1
8	802-110XX	VACUUM HOSE KIT 1.5IN X 15FT - FOR DETAILS REFER TO INVOICE	1	2
9	848-341XX	HOSE VACUUM 3IN - FOR DETAILS REFER TO INVOICE	1	1

NOTES: UNLESS OTHERWISE SPECIFIED
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L3 BASE PLATE





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240344	Take 5 - 065	
L3 ARCH FINAL ASSEMBLY 712-7901/712-7902 - SS MINI SEPARATOR - OH		WV-007

WEIGHT:	DATE:	SCALE:	REV:
289 lbs.	1/15/2024	NTS	A

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GENERAL STRUCTURAL NOTES:

CODE:

INTERNATIONAL BUILDING CODE, 2018 EDITION.

LOADS:

SEISMIC: NOT CRITICAL.
WIND: 115-MPH (EXP. C)
FABRIC DEAD LOAD: 1-PSF
ROOF LIVE LOAD: 5-PSF

FOUNDATIONS:

SEE SOILS REPORT BY: NOVA GEOTECHNICAL, G-17-152
DESIGN SOIL BEARING PRESSURE: 2500 PSF

FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED SOIL

CONCRETE:

MINIMUM 28 DAY STRENGTH TO BE 3000 PSI
MAXIMUM SLUMP: 5 IN. TYPE II -V
MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED

REINFORCING:

ASTM A-615 GRADE 60 (Fy = 60 KSI)
CLEAR CONCRETE COVERAGE AS FOLLOWS:
CAST AGAINST EARTH . . . . . 3 IN

STRUCTURAL STEEL:

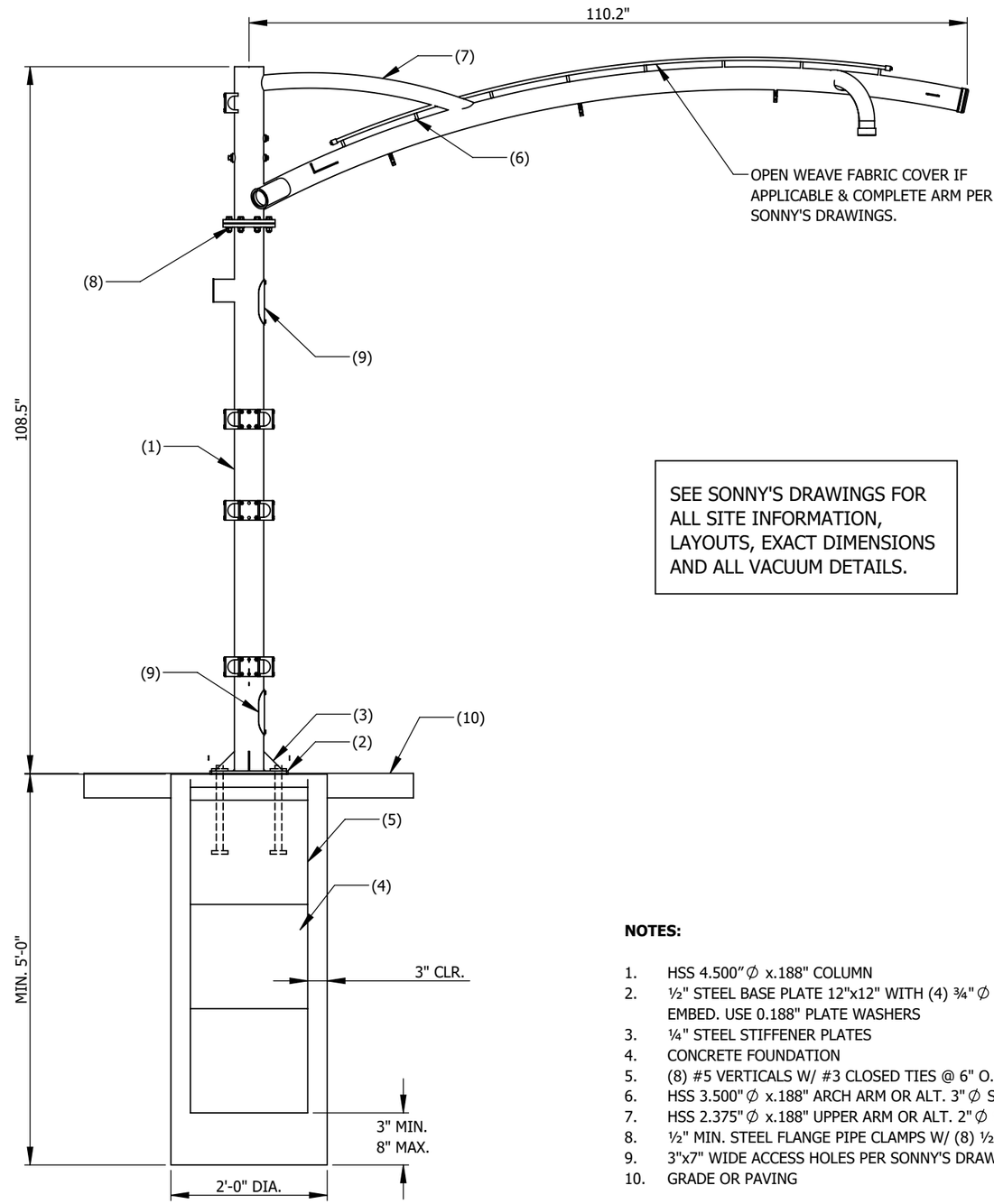
FABRICATED AND ROLLED SHAPES U.N.O. ASTM A36 (Fy = 36 KSI)
ROUND HSS . . ASTM A500 (Fy = 42 KSI)
PIPE: ASTM A53 GR. 'B'
DETAILING,FABRICATION AND CONSTRUCTION PER LATEST AISC MANUAL
FINISH PER SONNY'S
ANCHOR BOLTS TO BE ASTM A36 EQUIV. OR F1554-36
PIPE FLANGE BOLTS TO BE GRADE 5 EQUAL

WELDING:

PER LATEST AWS STANDARDS BY CERTIFIED WELDERS
USE E70 SERIES UNLESS NOTED OTHERWISE

DISCLAIMER:

THE INFORMATION ON THIS PAGE HAS BEEN DESIGNED AND ANALYZED BY A STRUCTURAL ENGINEER. HOWEVER, THIS INFORMATION IS PROVIDED FOR REFERENCE ONLY. STRUCTURAL ENGINEERING SHOULD BE COMPLETED BY A LICENSED STRUCTURAL ENGINEER IN THE MUNICIPALITY OF THE JOB SITE.
THIS INFORMATION IS NOT TO BE USED ON OTHER PROJECTS WITHOUT OUR CONSENT.



SEE SONNY'S DRAWINGS FOR ALL SITE INFORMATION, LAYOUTS, EXACT DIMENSIONS AND ALL VACUUM DETAILS.

NOTES:

1. HSS 4.500"∅ x.188" COLUMN
2. ½" STEEL BASE PLATE 12"x12" WITH (4) ¾"∅ HEAVY HEX A36 BOLTS W/ 12" MIN. EMBED. USE 0.188" PLATE WASHERS
3. ¼" STEEL STIFFENER PLATES
4. CONCRETE FOUNDATION
5. (8) #5 VERTICALS W/ #3 CLOSED TIES @ 6" O.C. AND (2) TIES @ TOP
6. HSS 3.500"∅ x.188" ARCH ARM OR ALT. 3"∅ STD PIPE (3.5" O.D.)
7. HSS 2.375"∅ x.188" UPPER ARM OR ALT. 2"∅ STD PIPE (2.375" O.D.)
8. ½" MIN. STEEL FLANGE PIPE CLAMPS W/ (8) ½" GR. 8 BOLTS
9. 3"x7" WIDE ACCESS HOLES PER SONNY'S DRAWINGS
10. GRADE OR PAVING

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240344	Take 5 - 065	
STRUCTURAL FOOTING DETAIL 712-7XXX - L3 ARCH FINAL ASSEMBLY		WV-008

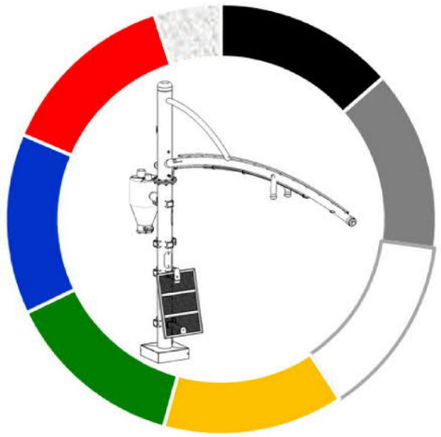
WEIGHT:	DATE:	SCALE:	REV:
lbs.	1/15/2024	NTS	A

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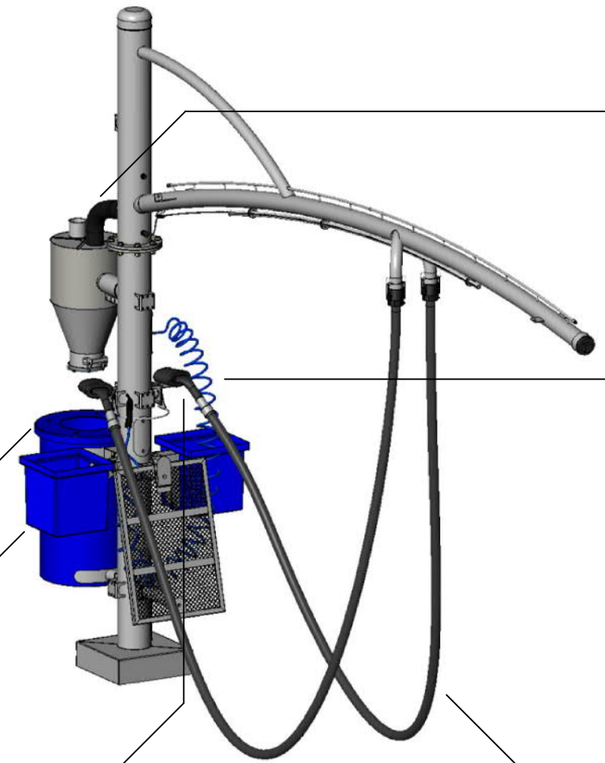
FOR INTERNAL USE ONLY:

CLR#_____

Structure / All metal parts



- Black (Black 2 2X)*
- Autovac Silver
- White (PMS 705)*
- Yellow (Process Yellow)*
- Green (PMS 349)*
- Blue (Reflex Blue)*
- Red (PMS 185)*
- Custom PMS #_____



Cyclonic 3" Hose



- Black
- Grey
- Blue
- Red
- Orange
- Yellow
- Lime Green
- Green

Trash Can / Lid



- Black
- Grey
- Dark Blue
- Blue
- Green
- Yellow
- Orange
- Red

Square Bucket



- Black
- Grey
- Dark Blue
- Blue
- Green
- Yellow
- Orange
- Red

Nozzle / Holster



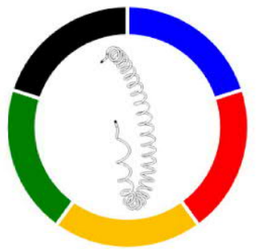
- Black

Vacuum Hose



- Black
- Grey
- Blue
- Red
- Orange
- Yellow
- Lime Green
- Green

Coil Air Hose



- Blue
- Red
- Yellow
- Green
- Black

NOTES:
1. Colors selected above and, in links may not represent actual color due to variations in computer monitor settings.
2. All items shown may not be quoted. Please refer to original invoice and/or contact your Autovac sales representative.
3. Any changes / information noted on this form must match current invoice. If not, a change order will need to be processed, as cost vary depending on selections.
4. Decal packages available featuring your logo.

Instructions:
Please circle the selected color box in each option that applies to your project.

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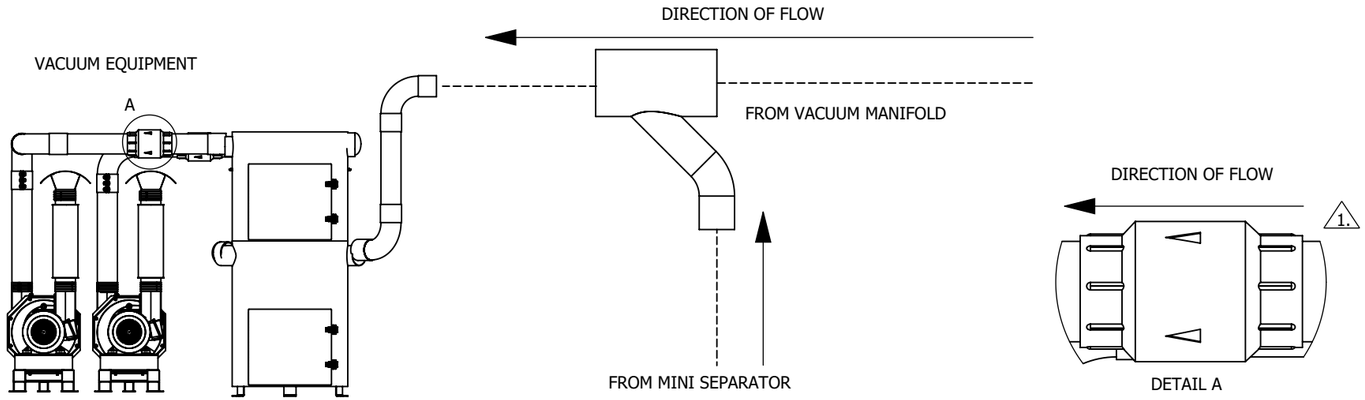
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240344	Take 5 - 065			
COLOR CHART 712-XXXX - L-SERIES ARCH				WV-009
WEIGHT: lbs.	DATE: 01/11/24	SCALE: NTS	REV: B	

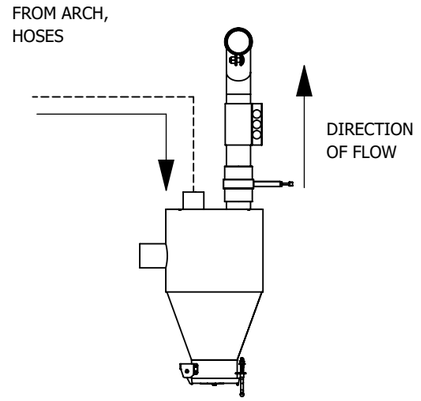
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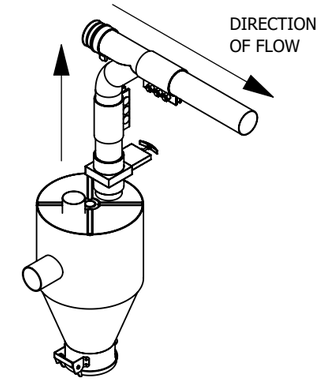
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OVERHEAD PIPING

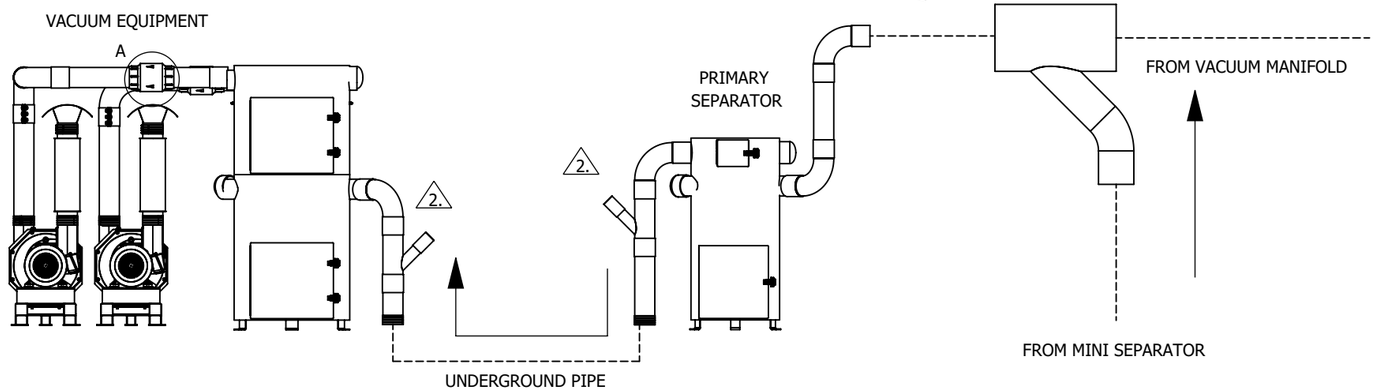


VACUUM FLOW WITH MINI SEPARATOR

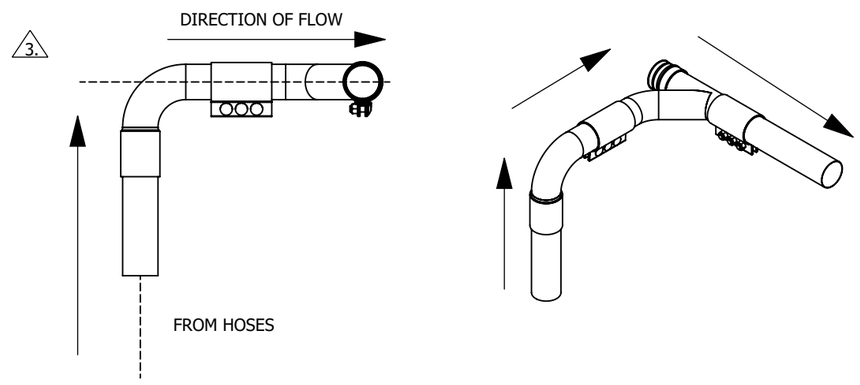




UNDERGROUND PIPING



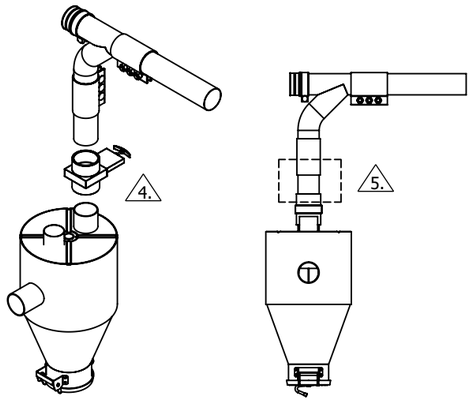
VACUUM FLOW WITHOUT MINI SEPARATOR



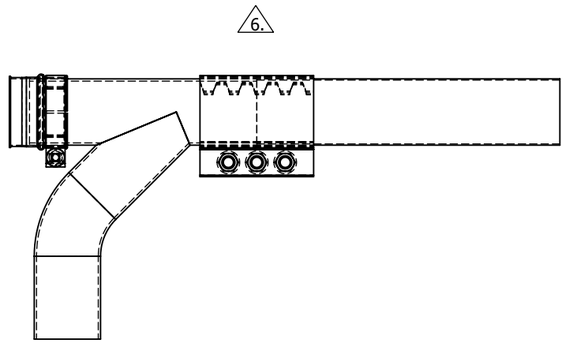
NOTES: UNLESS OTHERWISE SPECIFIED

1. SWING CHECK VALVES MUST BE INSTALLED LEVEL WITH THE FLOOR AND WITH THE VALVES FLOW ARROWS POINTING IN THE DIRECTION OF FLOW.
2. Y-FITTINGS FOR CLEANOUTS MUST BE INSTALLED WITH THE CLEANOUT POINTING UPWARD.
3. Y-FITTINGS MUST BE PLACED LEVEL TO THE FLOOR FOR PROPER DEBRIS EXTRACTION.
4. GATE VALVE MUST BE INSTALLED WITH SILICONE (SUPPLIED BY OTHERS) FOR PROPER ADHESION AND SEALING.
5. MANIFOLD HEIGHT IS ADJUSTED AND LEVELED WITH THE VERTICAL PIPE ATTATCHED TO THE GATE VALVE.
6. ALL COMPRESSION COUPLING JOINTS MUST BE EVENLY SPACED SO BOTH FITTINGS ARE CLAMPED SECURELY. TIGHTEN COUPLER NUTS PARTIALLY IN A UNIFORM MANNER TO ASSURE PROPER SEATING OF THE INNER SLEEVE AND GASKET. FULLY TORQUE NUTS TO 65 FT LBS.

GATE VALVE DETAIL



COMPRESSION COUPLING DETAIL



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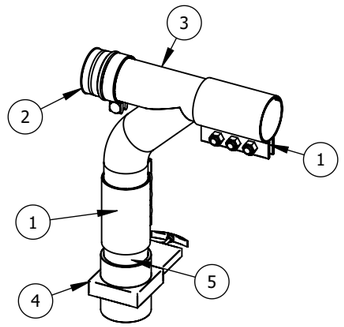
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240344	Take 5 - 065			
VACUUM PLUMBING DETAILS				WV-010
WEIGHT: - -	DATE: 12/6/2023	SCALE: NTS	REV: - -	

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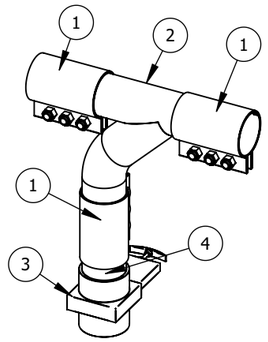
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A 3" X 3" FITTING ASSEMBLY W/CLEANOUT



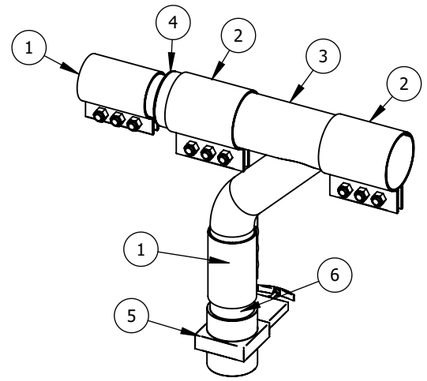
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	522-5431	STEEL COUPLING COMPRESSION 3.5IN OD X 6IN	2
2	523-0034	INSTALOK STEEL DUST CAP 3.5IN	1
3	551-6233	ALUMINUM TY 90DEG STRAIGHT ENDS 3.5X3.5	1
4	842-14001	GATE VALVE 3IN	1
5	952-316207	ALUMINUM TUBE 6063-T1 3.5DIA (SEE VACUUM AREA FOR QTY. TOTAL)	N/A

B 3" X 3" FITTING ASSEMBLY



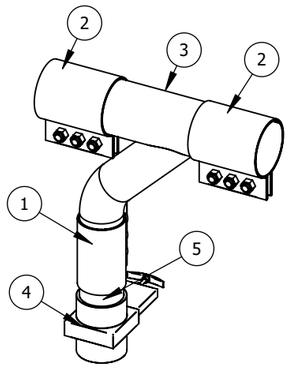
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	522-5431	STEEL COUPLING COMPRESSION 3.5IN OD X 6IN	3
2	551-6233	ALUMINUM TY 90DEG STRAIGHT ENDS 3.5X3.5	1
3	842-14001	GATE VALVE 3IN	1
4	952-316207	ALUMINUM TUBE 6063-T1 3.5DIA (SEE VACUUM AREA FOR QTY. TOTAL)	N/A

C 4" X 3" FITTING ASSEMBLY W/CLEANOUT



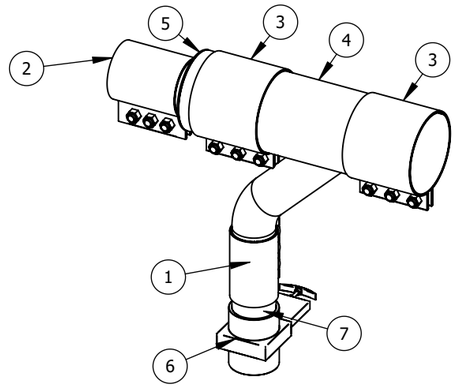
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	522-5431	STEEL COUPLING COMPRESSION 3.5IN OD X 6IN	1
2	522-5441	STEEL COUPLING COMPRESSION 4.5IN OD X 6IN	2
3	551-6243	ALUMINUM TY 90DEG STRAIGHT ENDS 4.5X3.5	1
4	555-0234	ALUMINUM REDUCER STRAIGHT 4.5X3.5	1
5	842-14001	GATE VALVE 3IN	1
6	952-316207	ALUMINUM TUBE 6063-T1 3.5DIA (SEE VACUUM AREA FOR QTY. TOTAL)	N/A

D 4" X 3" FITTING ASSEMBLY



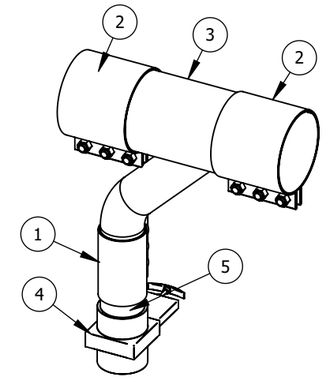
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	522-5431	STEEL COUPLING COMPRESSION 3.5IN OD X 6IN	1
2	522-5441	STEEL COUPLING COMPRESSION 4.5IN OD X 6IN	2
3	551-6243	ALUMINUM TY 90DEG STRAIGHT ENDS 4.5X3.5	1
4	842-14001	GATE VALVE 3IN	1
5	952-316207	ALUMINUM TUBE 6063-T1 3.5DIA (SEE VACUUM AREA FOR QTY. TOTAL)	N/A

E 6" X 3" FITTING ASSEMBLY W/CLEANOUT



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	522-5431	STEEL COUPLING COMPRESSION 3.5IN OD X 6IN	1
2	522-5441	STEEL COUPLING COMPRESSION 4.5IN OD X 6IN	1
3	522-5461	STEEL COUPLING COMPRESSION 6.625IN OD X 6IN	2
4	551-6263	ALUMINUM TY 90DEG STRAIGHT ENDS 6.625X3.5	1
5	555-0246	ALUMINUM REDUCER STRAIGHT 6.625X4.5	1
6	842-14001	GATE VALVE 3IN	1
7	952-316207	ALUMINUM TUBE 6063-T1 3.5DIA (SEE VACUUM AREA FOR QTY. TOTAL)	N/A

F 6" X 3" FITTING ASSEMBLY



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	522-5431	STEEL COUPLING COMPRESSION 3.5IN OD X 6IN	1
2	522-5461	STEEL COUPLING COMPRESSION 6.625IN OD X 6IN	2
3	551-6263	ALUMINUM TY 90DEG STRAIGHT ENDS 6.625X3.5	1
4	842-14001	GATE VALVE 3IN	1
5	952-316207	ALUMINUM TUBE 6063-T1 3.5DIA (SEE VACUUM AREA FOR QTY. TOTAL)	N/A

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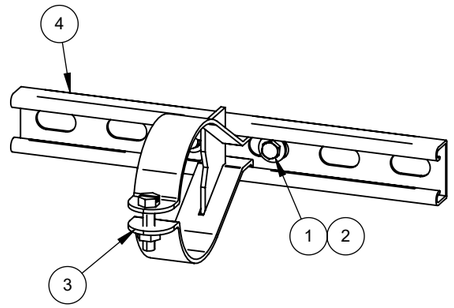
ASSEMBLY TEMPLATE
MANIFOLD FITTINGS - DIRECT GATE VALVE

WV-011

WEIGHT:	DATE:	SCALE:	REV:
- - lbs.	1/10/2024	NTS	B

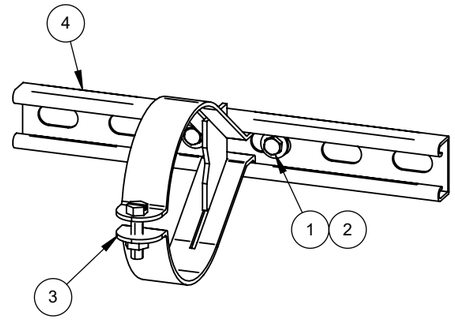
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3" PIPE - 90 DEGREE
(0 TOTAL REQUIREMENTS)



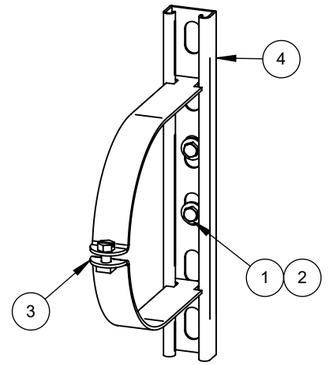
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	813-111907	SS HEX HEAD SCREW 1/4-20 X 3/4	2
2	813-312002	SS FLAT WASHER 1/4 X 3/4	2
3	822-8036	UNISTRUT PARALLEL CLAMP 3.5IN	1
4	927-102100	ZINC STRUT CHANNEL 1.625 X 10FT (SEE VACUUM AREA FOR QTY. TOTAL)	N/A

4" PIPE - 90 DEGREE
(0 TOTAL REQUIREMENTS)



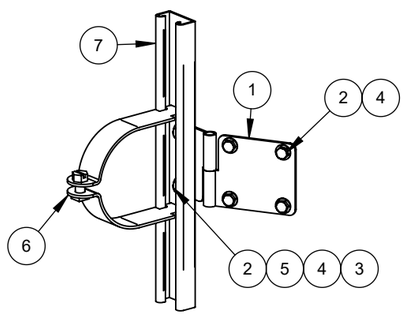
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	813-111907	SS HEX HEAD SCREW 1/4-20 X 3/4	2
2	813-312002	SS FLAT WASHER 1/4 X 3/4	2
3	822-8046	UNISTRUT PARALLEL CLAMP 4.5IN	1
4	927-102100	ZINC STRUT CHANNEL 1.625 X 10FT (SEE VACUUM AREA FOR QTY. TOTAL)	N/A

6" PIPE - 90 DEGREE
(6 TOTAL REQUIREMENTS)



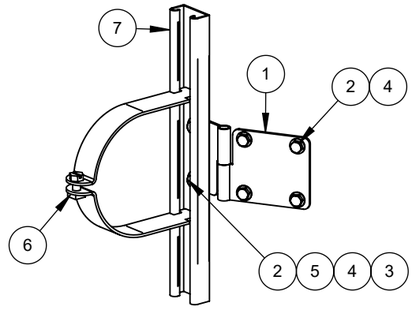
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	813-111907	SS HEX HEAD SCREW 1/4-20 X 3/4	2
2	813-312002	SS FLAT WASHER 1/4 X 3/4	2
3	822-8065	CLAMP STRUT MOUNT 6.625 IN	1
4	927-102100	ZINC STRUT CHANNEL 1.625 X 10FT (SEE VACUUM AREA FOR QTY. TOTAL)	N/A

3" PIPE - ANGLED
(0 TOTAL REQUIREMENTS)



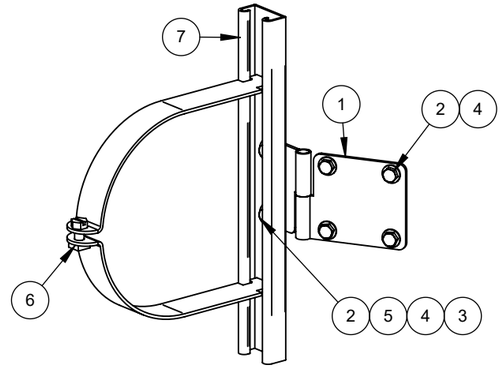
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	789-0038	SS HINGE DUAL OVERHEAD MANIFOLD	1
2	813-111907	SS HEX HEAD SCREW 1/4-20 X 3/4	6
3	813-271900	SS NYLON LOCKNUT 1/4-20	2
4	813-312001	SS FLAT WASHER 1/4 X 5/8	6
5	813-312002	SS FLAT WASHER 1/4 X 3/4	2
6	822-8035	CLAMP STRUT MOUNT 3.5 IN	1
7	927-102100	ZINC STRUT CHANNEL 1.625 X 10FT (SEE VACUUM AREA FOR QTY. TOTAL)	N/A

4" PIPE - ANGLED
(0 TOTAL REQUIREMENTS)



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	789-0038	SS HINGE DUAL OVERHEAD MANIFOLD	1
2	813-111907	SS HEX HEAD SCREW 1/4-20 X 3/4	6
3	813-271900	SS NYLON LOCKNUT 1/4-20	2
4	813-312001	SS FLAT WASHER 1/4 X 5/8	6
5	813-312002	SS FLAT WASHER 1/4 X 3/4	2
6	822-8045	CLAMP STRUT MOUNT 4.5 IN	1
7	927-102100	ZINC STRUT CHANNEL 1.625 X 10FT (SEE VACUUM AREA FOR QTY. TOTAL)	N/A

6" PIPE - ANGLED
(0 TOTAL REQUIREMENTS)



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	789-0038	SS HINGE DUAL OVERHEAD MANIFOLD	1
2	813-111907	SS HEX HEAD SCREW 1/4-20 X 3/4	6
3	813-271900	SS NYLON LOCKNUT 1/4-20	2
4	813-312001	SS FLAT WASHER 1/4 X 5/8	6
5	813-312002	SS FLAT WASHER 1/4 X 3/4	2
6	822-8065	CLAMP STRUT MOUNT 6.625 IN	1
7	927-102100	ZINC STRUT CHANNEL 1.625 X 10FT	N/A

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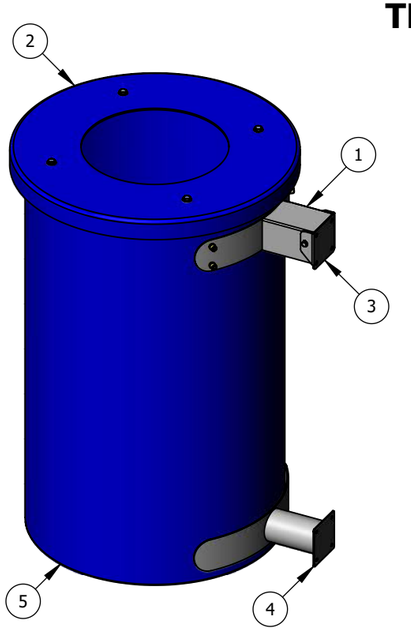
PRODUCT DATA SHEET
801-2010X - MANIFOLD HANGER ASSEMBLY

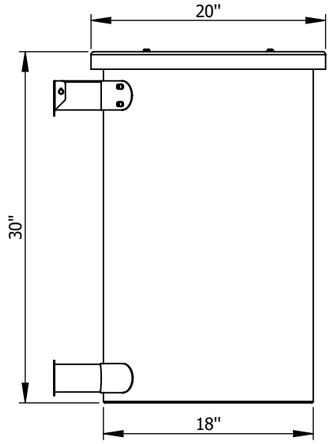
WV-012

WEIGHT:	DATE:	SCALE:	REV:
lbs.	1/10/2024	NTS	B

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TRASH CAN

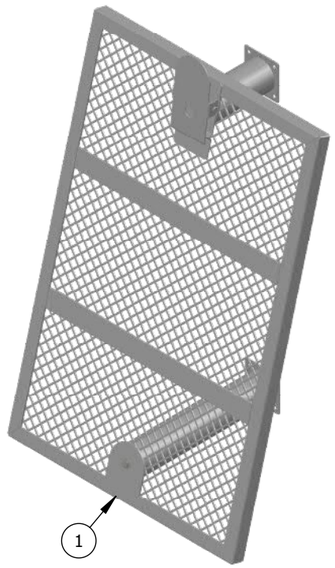


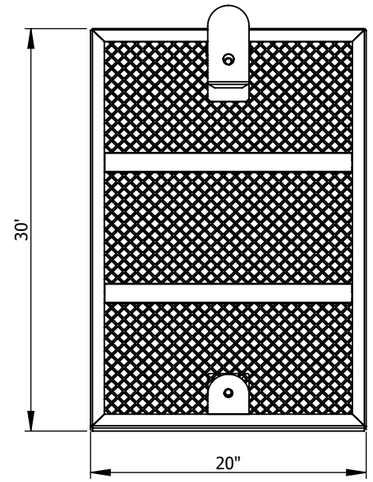


- ONLY ONE (1) UPPER QUICK RELEASE BRACKET REQUIRED FOR TRASH CAN. LOWER BRACKET IS FIXED TO STRUCTURE.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	789-0004	SUB ASSY QUICK RELEASE TRASH CAN BRACKET	1
2	789-0034	STEEL WEIGHT - TRASH CAN LID ASSEMBLY	1
3	799-0042	SS QUICK RELASE BRACKET	1
4	799-0093	SS LOWER TRASH CAN BRACKET SUPPORT	1
5	881-100X	TRASH CAN 30GA (REFER TO COLOR CHART)	1

MAT HOLDER ASSEMBLY

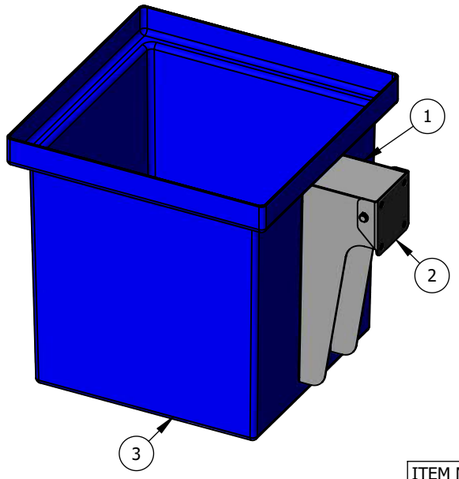


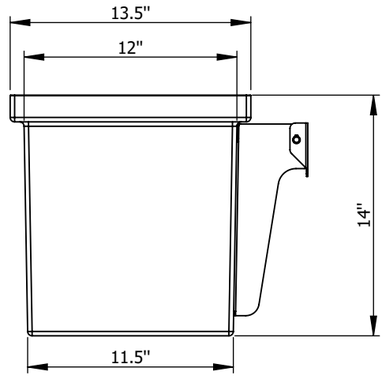


- MAT HOLDER IS FIXED TO STRUCTURE. QUICK RELEASE NOT AVAILABLE.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	789-2001	SS MAT HOLDER ASSEMBLY	1

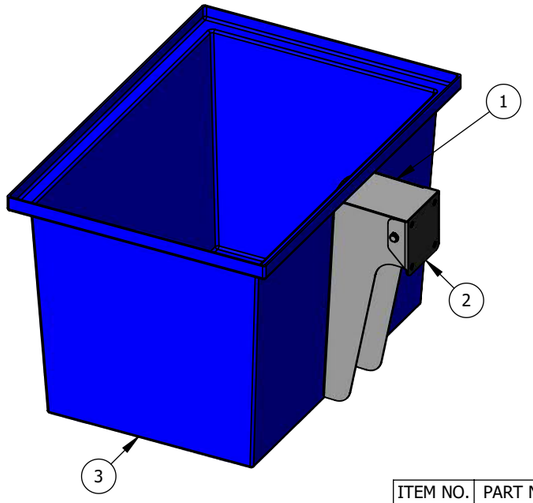
SQUARE BUCKET

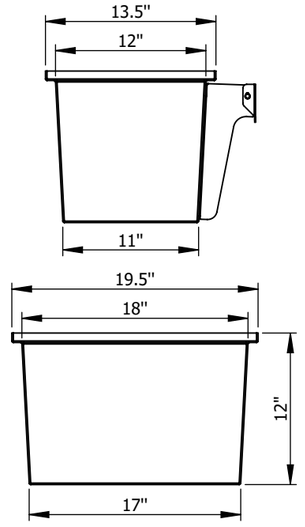




ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	789-0035	SS QUICK RELEASE BUCKET BRACKET 2.0	1
2	799-0042	SS QUICK RELASE BRACKET	1
3	882-000X	BUCKET SQUARE 12X12X12 (REFER TO COLOR CHART)	1

RECTANGULAR BUCKET





ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	789-0035	SS QUICK RELEASE BUCKET BRACKET 2.0	1
2	799-0042	SS QUICK RELASE BRACKET	1
3	882-001X	BUCKET RECTANGULAR 18X12X12 (REFER TO COLOR CHART)	1

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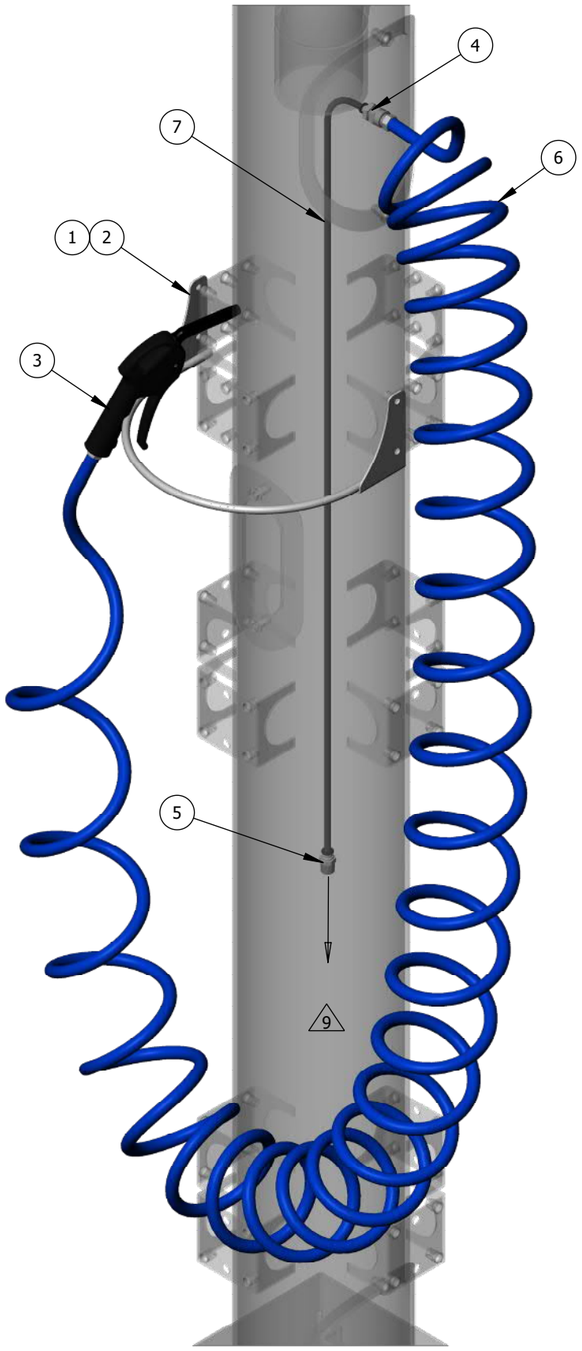
ACCESSORY TEMPLATE

WV-013

WEIGHT:	DATE:	SCALE:	REV:
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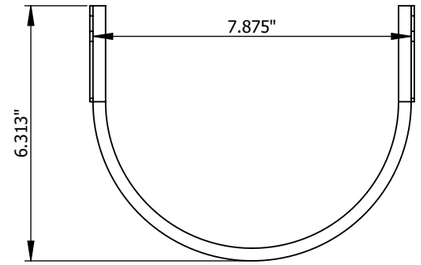
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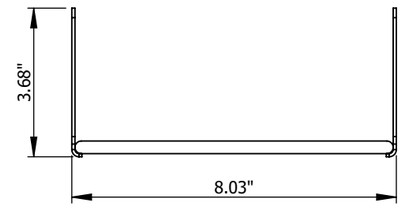
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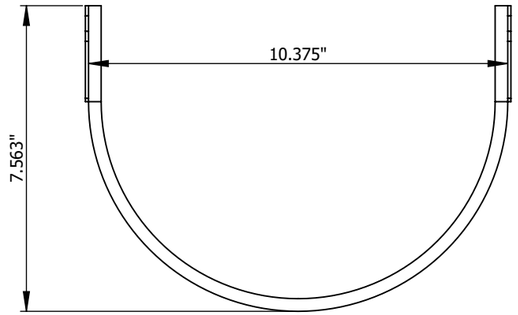
ITEM NO.	PART NUMBER	DESCRIPTION	804-10002/QTY.	804-10001/QTY.
1	729-1001	STEEL AIR-GUN HANGER BRACKET - 4IN STANCHION	-	1
2	729-1002	STEEL AIR-GUN HANGER BRACKET - 6IN STANCHION	1	-
3	842-3110X	AIR BLOWGUN 1/4IN 150PSI - BLACK	1	1
4	843-31002	ADAPTER PUSH-IN 1/4NPT FEMALE STUD STRAIGHT X 1/4 TUBE OD	1	1
5	843-31006	ADAPTER PUSH-IN 1/4NPT MALE STUD STRAIGHT X 1/4 TUBE OD	1	1
6	848-2110X	SELF-RETRACTING POLYURETHANE HOSE 1/4IN X 25FT X 1/4IN	1	1
7	848-31100-120	POLYURETHANE TUBE 1/4OD -CLEAR - 120 IN	1	1

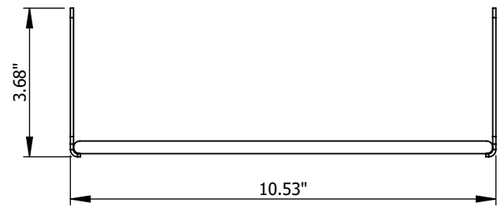
AIR GUN BLOWER KIT - 4IN POST
804-10001





AIR GUN BLOWER KIT - 6IN POST
804-10002





NOTES AND WARNINGS:

1. PER FEDERAL OSHA REQUIREMENTS: AIR PRESSURE MUST NOT EXCEED 30 PSI FOR CLEANING PURPOSES.
2. DO NOT DIRECT THE TIP OF THE AIR GUN AT THE FACE, EYES, OR ANY OTHER PARTS OF THE HUMAN BODY. SERIOUS INJURY OR DEATH MAY OCCUR.
3. DO NOT REMOVE, MODIFY, OR TAMPER WITH AIR GUN SAFETY TIP. IT IS INSTALLED FOR YOUR SAFETY.
4. THIS PRODUCT IS NOT A TOY AND SHALL NOT BE ALLOWED TO BE OPERATED BY CHILDREN.
5. SUPPLY ONLY CLEAN, DRY AIR TO THE BLOW GUN. A PARTICULATE / OIL FILTER, ALONG WITH AN AIR DRYER AND/OR WATER SEPARATOR IS RECOMMENDED.
6. OVERALL HOSE LENGTH IS 25'. DO NOT OVERTIGHTEN FITTINGS, DAMAGE MAY OCCUR.
7. EACH KIT IS SUPPLIED WITH 10' OF 1/4" OD POLYURETHANE TUBE.
8. COLORS AND ACCESSORIES REFLECTED ARE FOR REPRESENTATION PURPOSES ONLY. REFER TO INVOICE FOR SPECIFIC REQUIREMENTS.
9. TO COMPRESSED AIR MANIFOLD. MANIFOLD AND 1/4NPT ADAPTER TO BE SUPPLIED BY OTHERS (SBO)

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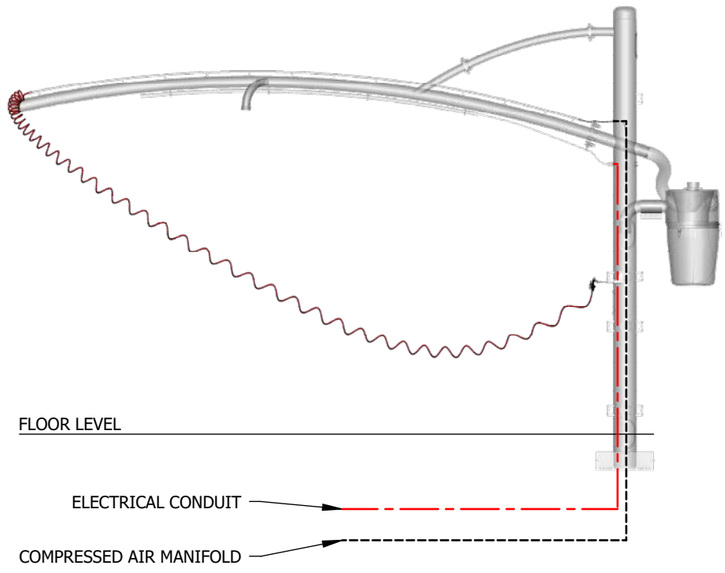
PRODUCT DATA SHEET
804-1000X - AIR GUN BLOWER KIT - POST

WV-014

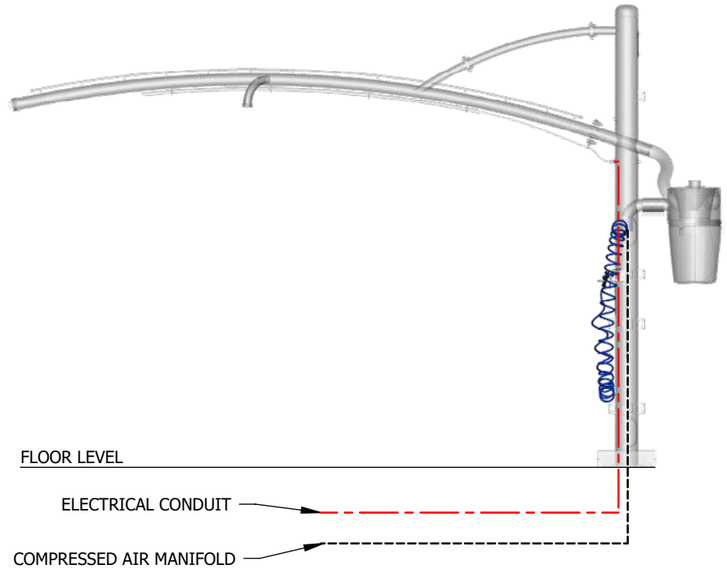
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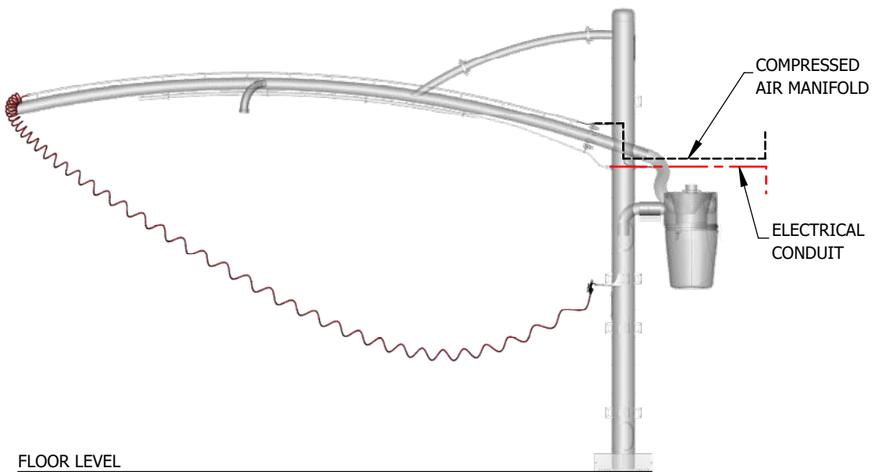
UNDERGROUND MANIFOLD TO ARCH



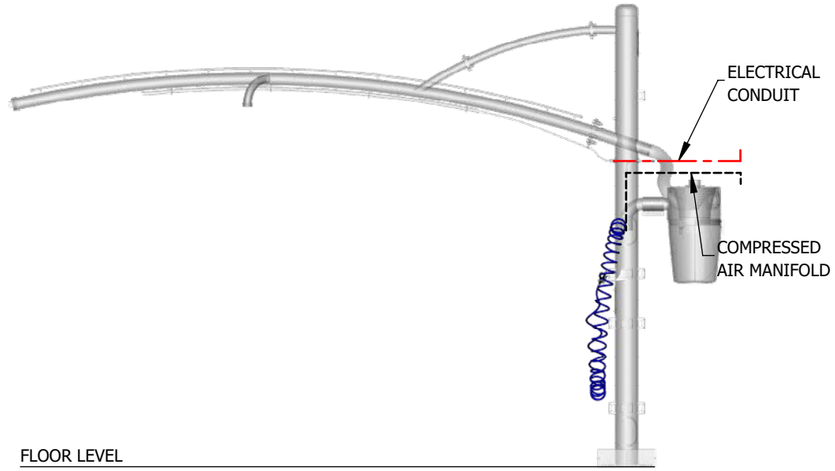
UNDERGROUND MANIFOLD TO POST



OVERHEAD MANIFOLD TO ARCH



OVERHEAD MANIFOLD TO POST



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PRODUCT DATA SHEET
804-1000X - AIR GUN BLOWER KIT - INSTALL CONFIGURATIONS

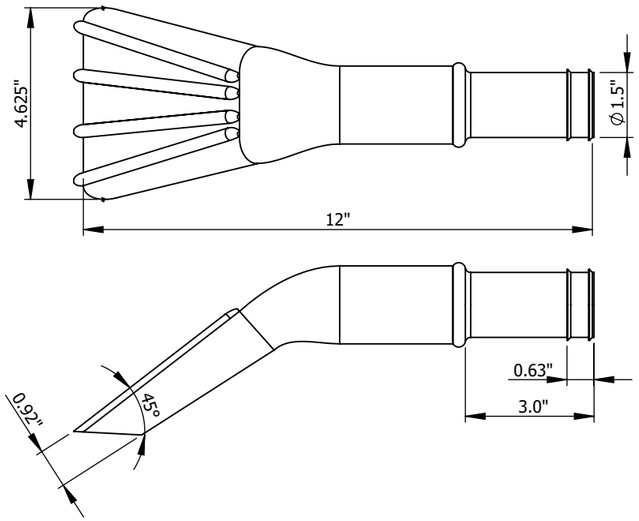
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WV-015

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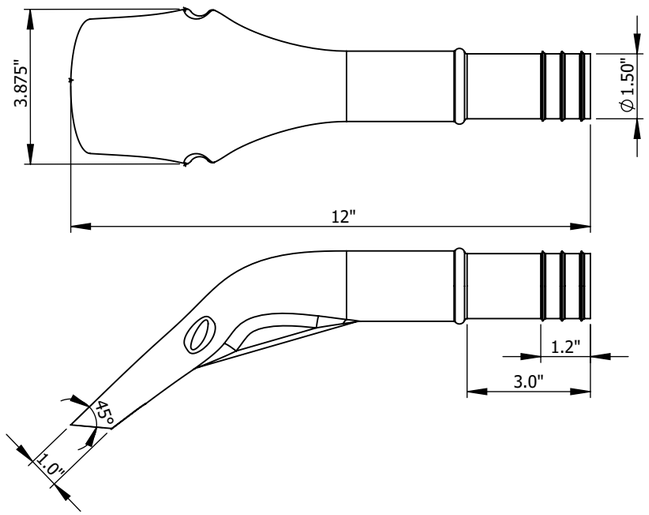
883-001X CLAW NOZZLE
(0) TOTAL REQUIREMENTS





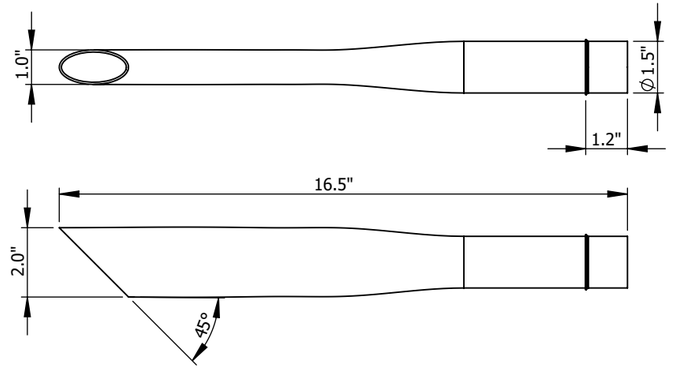
883-002X EXPRESS NOZZLE
(11) TOTAL REQUIREMENTS





883-003X CREVICE NOZZLE
(11) TOTAL REQUIREMENTS





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PRODUCT DATA SHEET NOZZLE TOOL TEMPLATE		WV-016

WEIGHT:	DATE:	SCALE:	REV:
lbs.	1/10/2024	NTS	A

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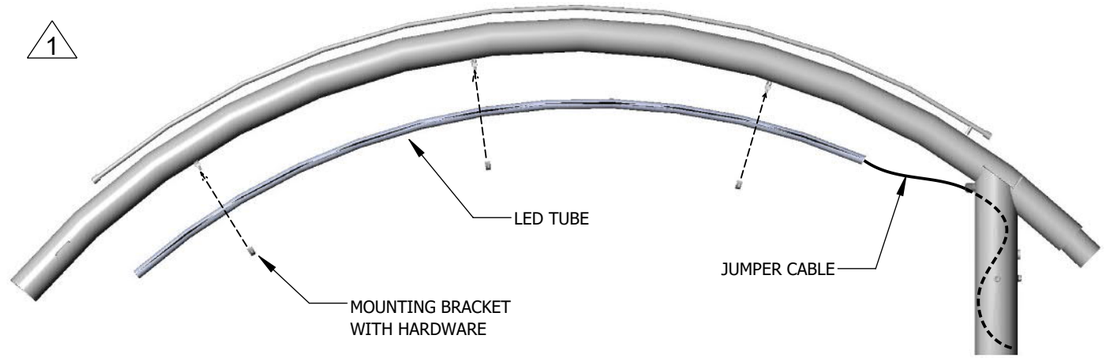
DESCRIPTION	PART NO.
LED TUBE T8 4' 15W / 1800 LUMENS	431-40003
LED TUBE RGBW 4’ 15W / 1800 LUMENS	431-40004
LED TUBE T8 6' 22W / 2650 LUMENS	431-60003
LED TUBE RGBW 6’ 22W / 2650 LUMENS	431-60004
LED TUBE T8 8' 30W / 3600 LUMENS	431-80003
LED TUBE RBGW 8' 30W / 3600 LUMENS	431-80004

INSTALLATION INSTRUCTIONS

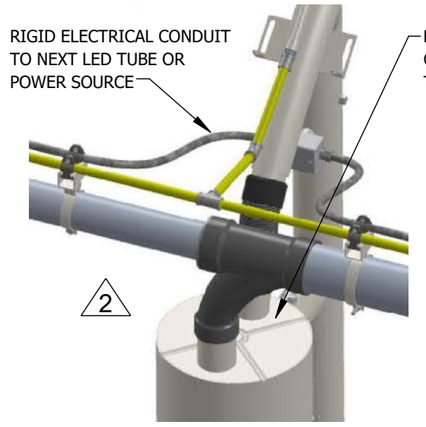
LED TUBE FOR INDOOR AND OUTDOOR APPLICATIONS, INCLUDING WET ENVIRONMENTS.

1. INSTALL LED TUBE INTO MOUNTING COLLARS WITH SUPPLIED HARDWARE. DO NOT FULLY TIGHTEN UNTIL THE LED TUBE IS CENTERED ON THE ARCH.
2. TIGHTEN MOUNTING COLLARS UNTIL THE LED TUBE IS SECURE. DO NOT OVERTIGHTEN. OVERTHIGHTENING MAY BREAK THE LED TUBE AND VOID THE WARRANTY.
3. CONNECT POWER CABLE TO LED TUBE. IF REQUIRED, REMOVE TWO-PRONG PLUG.
   - OVERHEAD ELECTRICAL HOOKUP: FEED CABLE THRU CONDUIT, THEN FISH THRU TWO HOLES ON POST. CONNECT TO *JUNCTION BOX ON BACK SIDE OF POST.
   - UNDERGROUND ELECTRICAL HOOKUP: PRIOR TO ARCH INSTALLATION; RUN TWO SEPARATE ELECTRICAL LINES UP POST AND OUT THE TOP. PLACE ARCH IN POSITION FOR INSTALL AND FEED ONE LEADER CABLE THROUGH FRONT HOLE ON ARCH POST THEN SECOND LEADER CABLE THROUGH REAR ARCH POST HOLE.
4. CUT JUMPER CABLE TO DESIRED LENGTH AND CONNECT TO *JUNCTION BOX.
5. CONNECT (2X) LEADER CABLE TO *ELECTRICAL JUNCTION BOX. REFER TO

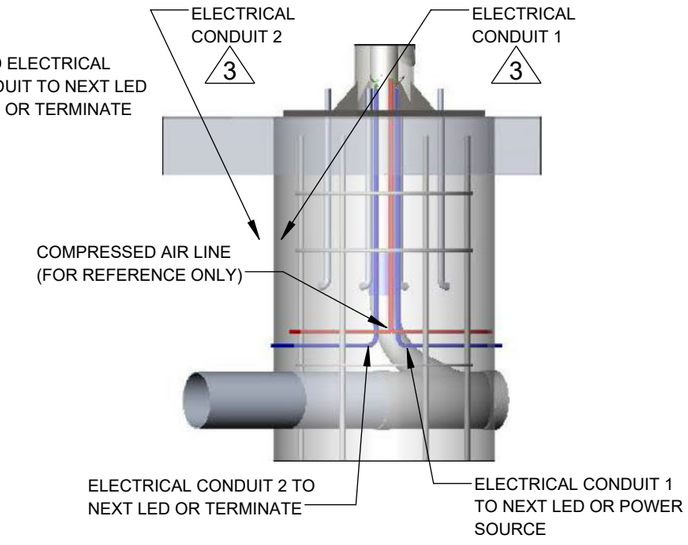
RGB LED TUBE REQUIRE SUPPLEMENTAL INSTRUCTIONS FOR THE LIGHTINING CONTROL APPLICATION TO BE INSTALLED ON YOUR PHONE DEVICE.



OVERHEAD HOOKUP



UNDERGROUND HOOKUP



NOTES: UNLESS OTHERWISE SPECIFIED

1. A-SERIES VACUUM ARCH SHOWN FOR REFERENCE. ALL OTHER ARCH STRUCTURES APPLY THE SAME.

2. SUGGESTED ELECTRICAL CONDUIT AND AIR LINE INSTALLATION FOR OVERHEAD HOOKUP. FOR UNDERGROUND HOOKUP SEE INSTRUCTION STEP 3.

3. CONTINUOUS CONDUIT RUN THROUGH ARCH POST TO ELECTRICAL CONNECTION POINT.

*ELECTRICAL JUNCTION BOX TO BE SUPPLIED BY OTHERS. FOLLOW LOCAL ELECTRICAL CODES FOR PROPER LOCATION AND INSTALLATION.

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NOTES:

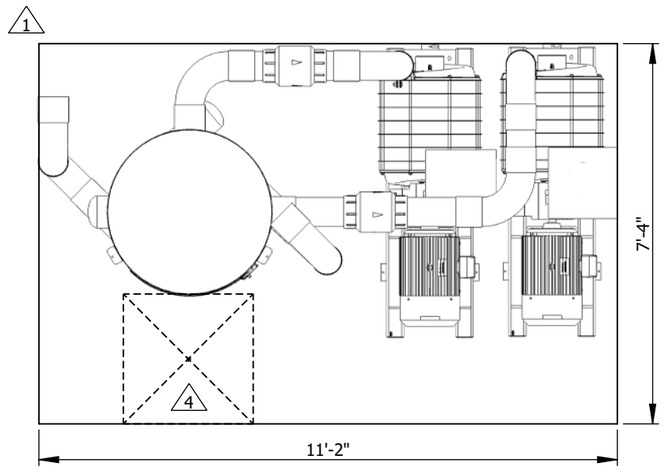
COLORS REFLECTED ARE FOR REPRESENTATION PURPOSES ONLY. REFER TO INVOICE FOR SPECIFIC REQUIREMENTS.

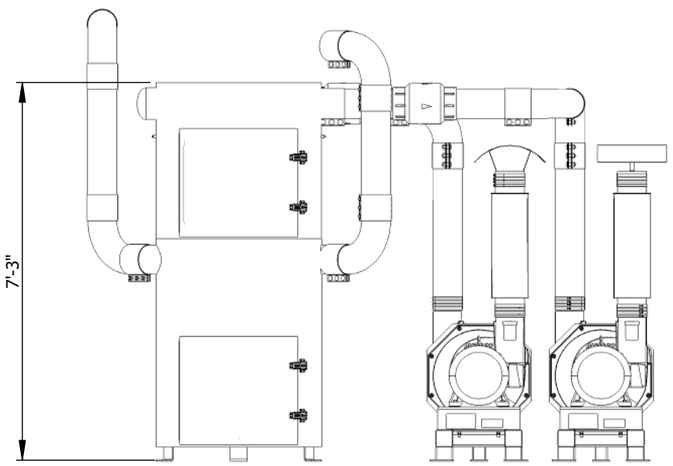
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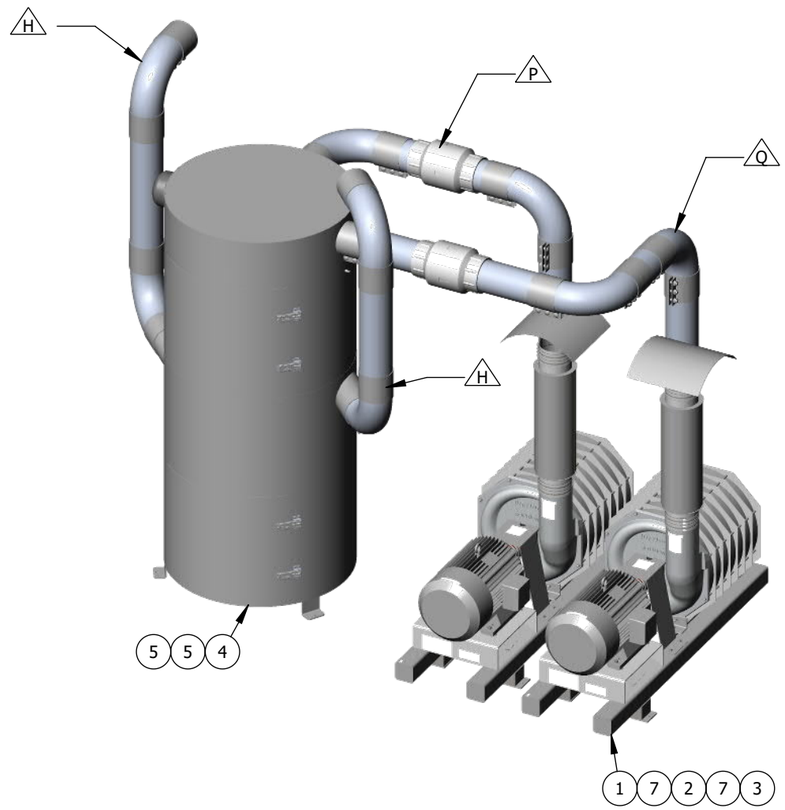
240344	Take 5 - 065	
PRODUCT DATA SHEET 431-XXXXX - LED TUBE INSTALLATION INSTRUCTIONS		WV-017
WEIGHT: lbs.	DATE: 1/10/2024	SCALE: NTS / REV: A

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NOTES: UNLESS OTHERWISE SPECIFIED

1. MINIMUM PAD DIMENSIONS SHOWN. AN ADDITIONAL TWO FEET (2') OF CLEARANCE AROUND EQUIPMENT FOR SERVICE ACCESS IS RECOMMENDED. ALL DIMENSIONS TO BE FIELD VERIFIED
2. REFER TO INVOICE FOR ELECTRICAL REQUIREMENTS
3. IF THE EQUIPMENT IS IN AN ENCLOSED ROOM, REFER TO VACUUM SYSTEM EQUIPMENT DESIGN NOTES UNDER DISCLAIMER INFORMATION
4. 30" X 30" DIRT BUCKET CLEARANCE
5. UNDERGROUND PIPE TO BE SUPPLIED BY OTHERS (SBO)
6. A VFD MOTOR CONTROL PACKAGE IS HIGHLY RECOMMENDED FOR EVERY VACUUM EQUIPMENT UNIT. UNITS WITHOUT A VFD MAY EXPERIENCE OVERHEATING AND WILL REQUIRE A RELIEF VALVE - CONSULT FACTORY FOR DETAILS

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	214-674001	TURBINE 600 SERIES 30HP - 3 PHASE 60Hz 208V/230V/460V - 7STG	2
2	284-000001	EXHAUST MUFFLER 6IN	2
3	284-000002	MUFFLER RAIN CAP 6IN	2
4	311-32501	SS FILTER SEPARATOR, 38X84 600 SERIES (3) IN-OUT	1
5	513-0066	ABS CAP HUB 6IN	2
6	522-5461	STEEL COUPLING COMPRESSION 6.625IN OD X 6IN	17
7	532-0066	SS NO-HUB COUPLING 6IN	6
8	551-4466	ALUMINUM ELBOW 90DEG STRAIGHT ENDS 6.625	8
9	842-36001	SWING CHECK VALVE 6IN	2
10	952-325213	ALUMINUM TUBE 6063-T1 6.625DIA 12FT 0.109IN	2

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DATE	REV	DESCRIPTION	DWN
06.14.24	A	PROJECT CREATED	GB
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-	-	-	-

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VACUUM EQUIPMENT DETAILS

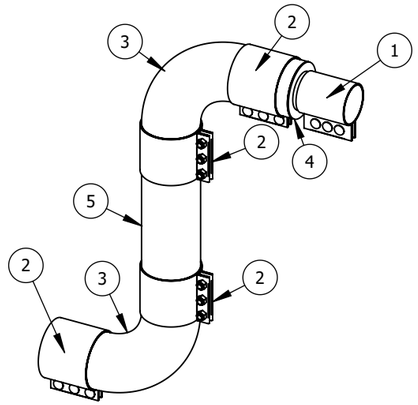
WV-018

CITY:	STATE/COUNTRY:	DATE:	SCALE:	REV:
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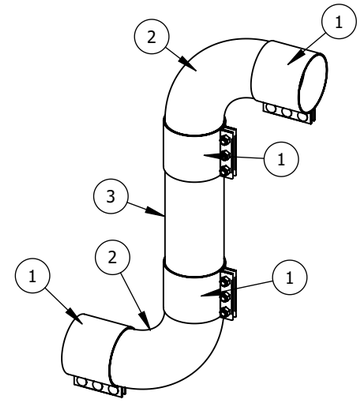
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G 4" OVERHEAD



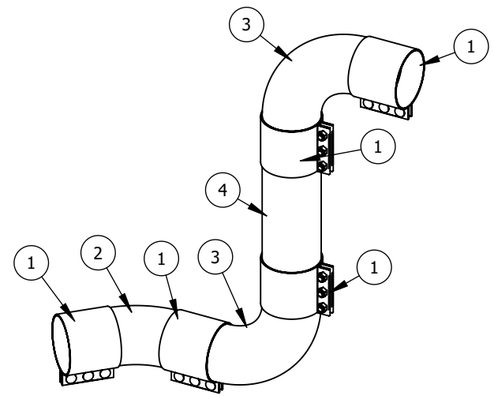
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	522-5441	STEEL COUPLING COMPRESSION 4.5IN OD X 6IN	1
2	522-5461	STEEL COUPLING COMPRESSION 6.625IN OD X 6IN	4
3	551-4466	ALUMINUM ELBOW 90DEG STRAIGHT ENDS 6.625	2
4	555-0246	ALUMINUM REDUCER STRAIGHT 6.625X4.5	1
5	952-325213	ALUMINUM TUBE 6063-T1 6.625 (SEE VACUUM EQUIPMENT FOR QTY. TOTAL)	N/A

H 6" OVERHEAD



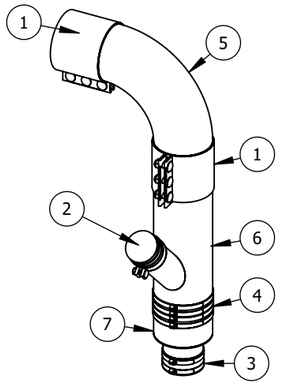
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	522-5461	STEEL COUPLING COMPRESSION 6.625IN OD X 6IN	4
2	551-4466	ALUMINUM ELBOW 90DEG STRAIGHT ENDS 6.625	2
3	952-325213	ALUMINUM TUBE 6063-T1 6.625 (SEE VACUUM EQUIPMENT FOR QTY. TOTAL)	N/A

I 6" 45° OVERHEAD



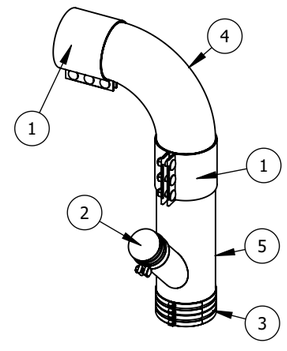
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	522-5461	STEEL COUPLING COMPRESSION 6.625IN OD X 6IN	5
2	551-2466	ALUMINUM ELBOW 45DEG STRAIGHT ENDS 6.625	1
3	551-4466	ALUMINUM ELBOW 90DEG STRAIGHT ENDS 6.625	2
4	952-325213	ALUMINUM TUBE 6063-T1 6.625 (SEE VACUUM EQUIPMENT FOR QTY. TOTAL)	N/A

J 4" UNDERGROUND



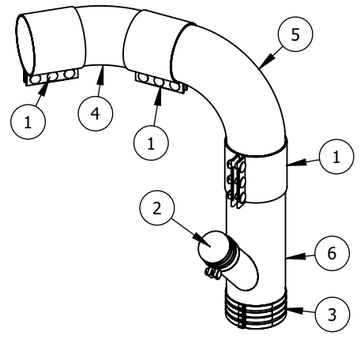
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	522-5461	STEEL COUPLING COMPRESSION 6.625IN OD X 6IN	2
2	523-0034	INSTALOK STEEL DUST CAP 3.5IN	1
3	532-0044	SS NO-HUB COUPLING 4IN	1
4	532-0066	SS NO-HUB COUPLING 6IN	1
5	551-4466	ALUMINUM ELBOW 90DEG STRAIGHT ENDS 6.625	1
6	551-6563	ALUMINUM WYE 45DEG STRAIGHT ENDS 6.625X3.5	1
7	555-0246	ALUMINUM REDUCER STRAIGHT 6.625X4.5	1

K 6" UNDERGROUND



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	522-5461	STEEL COUPLING COMPRESSION 6.625IN OD X 6IN	2
2	523-0034	INSTALOK STEEL DUST CAP 3.5IN	1
3	532-0066	SS NO-HUB COUPLING 6IN	1
4	551-4466	ALUMINUM ELBOW 90DEG STRAIGHT ENDS 6.625	1
5	551-6563	ALUMINUM WYE 45DEG STRAIGHT ENDS 6.625X3.5	1

L 6" 45° UNDERGROUND



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	522-5461	STEEL COUPLING COMPRESSION 6.625IN OD X 6IN	3
2	523-0034	INSTALOK STEEL DUST CAP 3.5IN	1
3	532-0066	SS NO-HUB COUPLING 6IN	1
4	551-2466	ALUMINUM ELBOW 45DEG STRAIGHT ENDS 6.625	1
5	551-4466	ALUMINUM ELBOW 90DEG STRAIGHT ENDS 6.625	1
6	551-6563	ALUMINUM WYE 45DEG STRAIGHT ENDS 6.625X3.5	1

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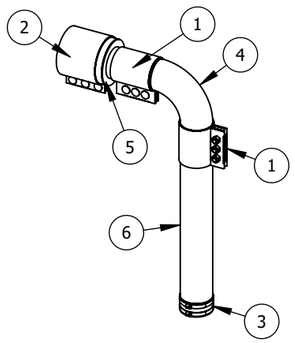
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WV-019

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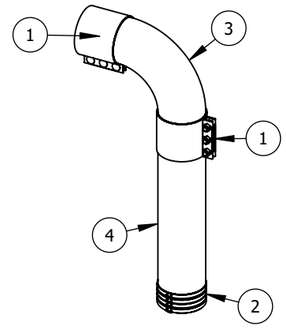
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M 4" SINGLE PRODUCER



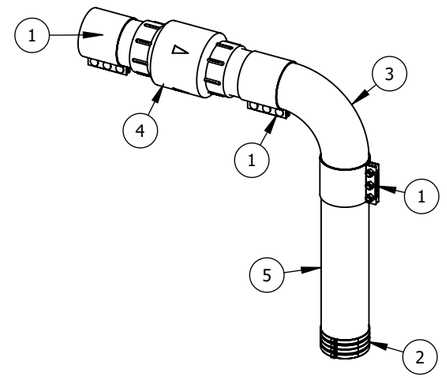
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	522-5441	STEEL COUPLING COMPRESSION 4.5IN OD X 6IN	2
2	522-5461	STEEL COUPLING COMPRESSION 6.625IN OD X 6IN	1
3	532-0044	SS NO-HUB COUPLING 4IN	1
4	551-4444	ALUMINUM ELBOW 90DEG STRAIGHT ENDS 4.5	1
5	555-0246	ALUMINUM REDUCER STRAIGHT 6.625X4.5	1
6	952-319210	ALUMINUM TUBE 6063-T1 4.5DIA (SEE VACUUM EQUIPMENT FOR QTY. TOTAL)	N/A

N 6" SINGLE PRODUCER



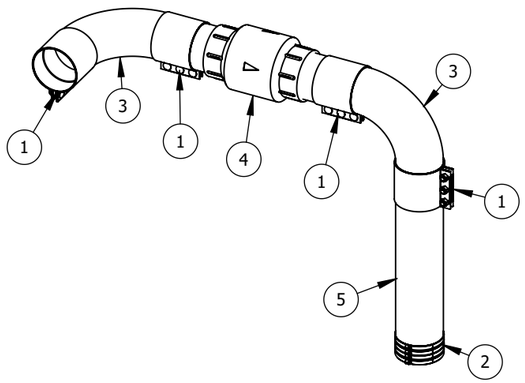
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	522-5461	STEEL COUPLING COMPRESSION 6.625IN OD X 6IN	2
2	532-0066	SS NO-HUB COUPLING 6IN	1
3	551-4466	ALUMINUM ELBOW 90DEG STRAIGHT ENDS 6.625	1
4	952-325213	ALUMINUM TUBE 6063-T1 6.625DIA (SEE VACUUM EQUIPMENT FOR QTY. TOTAL)	N/A

O 6" MULTI PRODUCER



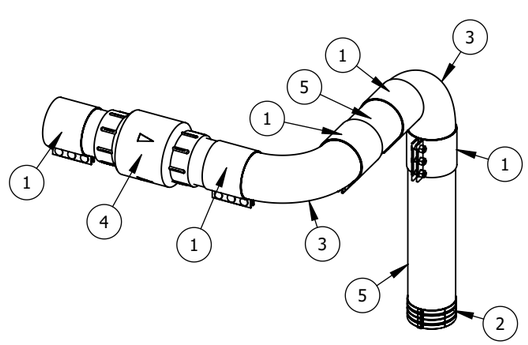
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	522-5461	STEEL COUPLING COMPRESSION 6.625IN OD X 6IN	3
2	532-0066	SS NO-HUB COUPLING 6IN	1
3	551-4466	ALUMINUM ELBOW 90DEG STRAIGHT ENDS 6.625	1
4	842-36001	SWING CHECK VALVE 6IN	1
5	952-325213	ALUMINUM TUBE 6063-T1 6.625DIA (SEE VACUUM EQUIPMENT FOR QTY. TOTAL)	N/A

P 6" MULTI PRODUCER



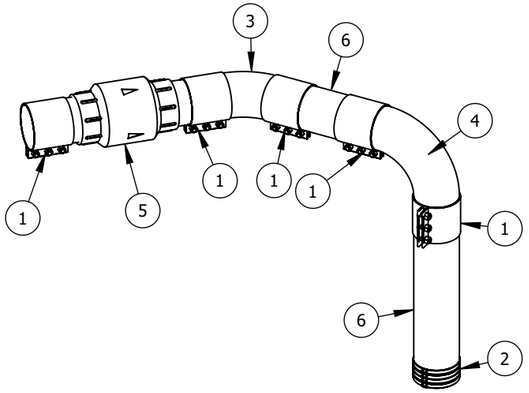
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	522-5461	STEEL COUPLING COMPRESSION 6.625IN OD X 6IN	4
2	532-0066	SS NO-HUB COUPLING 6IN	1
3	551-4466	ALUMINUM ELBOW 90DEG STRAIGHT ENDS 6.625	2
4	842-36001	SWING CHECK VALVE 6IN	1
5	952-325213	ALUMINUM TUBE 6063-T1 6.625DIA (SEE VACUUM EQUIPMENT FOR QTY. TOTAL)	N//A

Q 6" MULTI PRODUCER



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	522-5461	STEEL COUPLING COMPRESSION 6.625IN OD X 6IN	5
2	532-0066	SS NO-HUB COUPLING 6IN	1
3	551-4466	ALUMINUM ELBOW 90DEG STRAIGHT ENDS 6.625	2
4	842-36001	SWING CHECK VALVE 6IN	1
5	952-325213	ALUMINUM TUBE 6063-T1 6.625DIA (SEE VACUUM EQUIPMENT FOR QTY. TOTAL)	N/A

R 6" MULTI PRODUCER



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	522-5461	STEEL COUPLING COMPRESSION 6.625IN OD X 6IN	5
2	532-0066	SS NO-HUB COUPLING 6IN	1
3	551-2466	ALUMINUM ELBOW 45DEG STRAIGHT ENDS 6.625	1
4	551-4466	ALUMINUM ELBOW 90DEG STRAIGHT ENDS 6.625	1
5	842-36001	SWING CHECK VALVE 6IN	1
6	952-325213	ALUMINUM TUBE 6063-T1 6.625DIA (SEE VACUUM EQUIPMENT FOR QTY. TOTAL)	N/A

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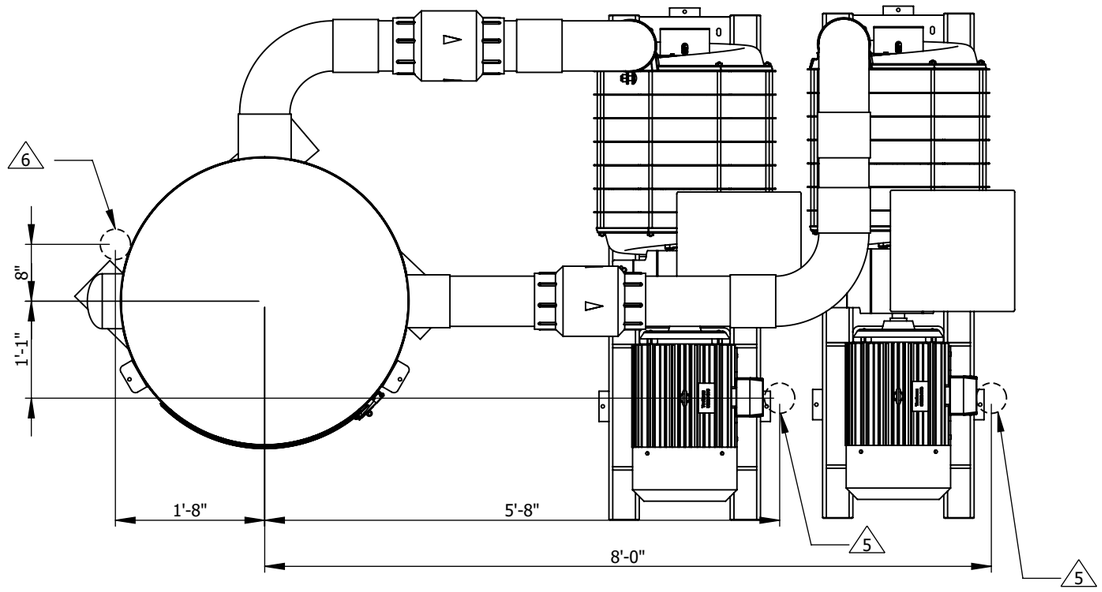
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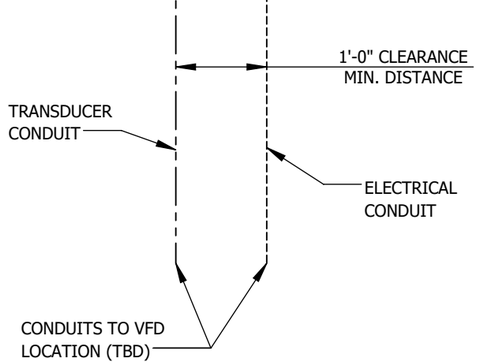
PRODUCT DATA SHEET
SEPARATOR FITTING ASSEMBLIES - OUTLET

WV-020

WEIGHT:	DATE:	SCALE:	REV:
	1/9/2024	NTS	A

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4. IF THE EQUIPMENT IS IN AN ENCLOSED ROOM, REFER TO VACUUM SYSTEM EQUIPMENT DESIGN NOTES UNDER DISCLAIMER INFORMATION
5. RECOMMENDED TURBINE MOTOR CONDUIT LOCATION
6. RECOMMENDED TRANSDUCER CONDUIT LOCATION
7. VFD UNITS COME STANDARD WITH 12' OF TRANSDUCER CABLE - ADDITIONAL CABLE CAN BE PURCHASED IF REQUIRED (403-10002)

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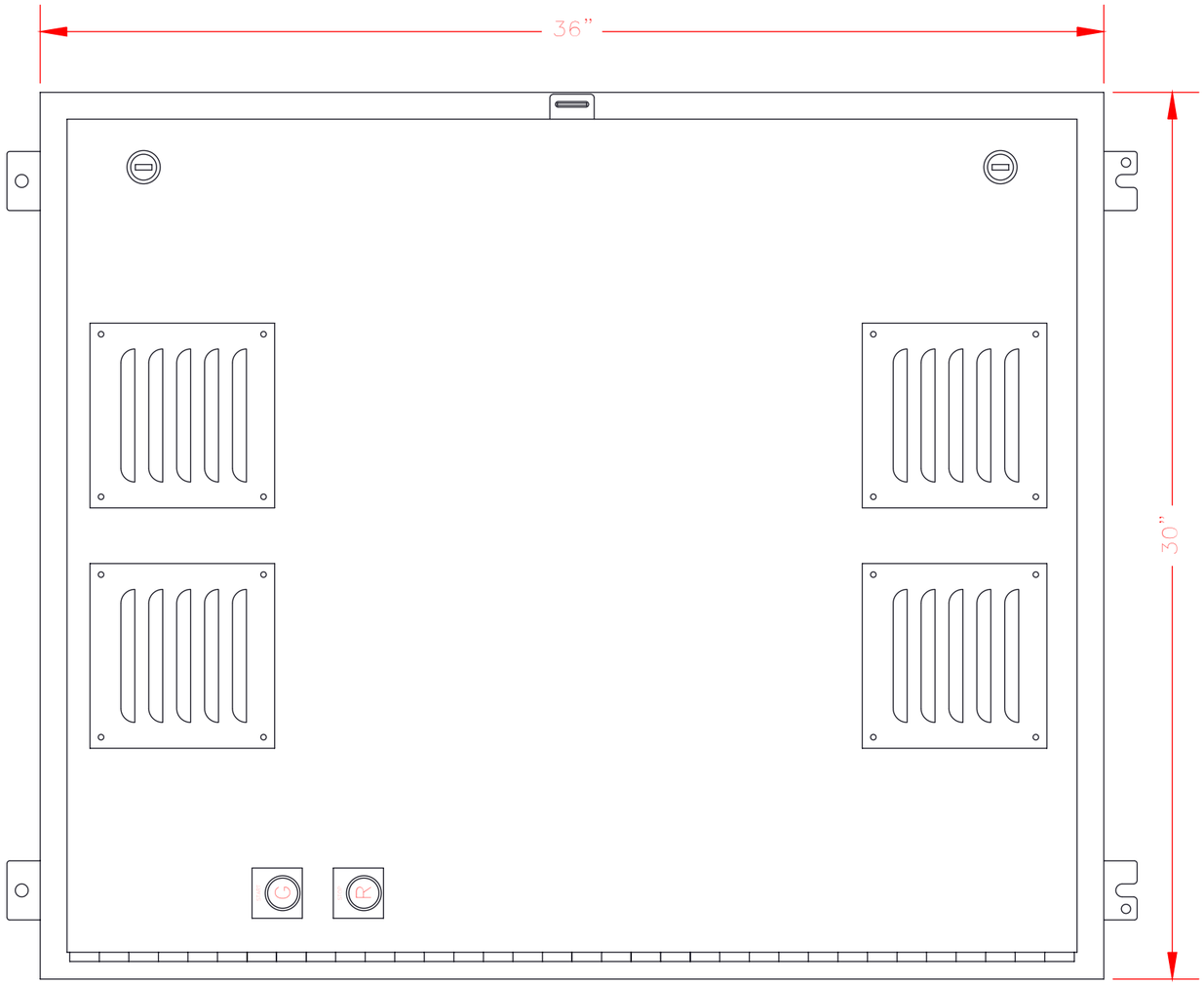
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240344	Take 5 - 065			
ELECTRICAL DETAILS SS 84X30 SEPARATOR - (2) 30HP - RIGHT				WV-021
WEIGHT: lbs.	DATE: 1/16/2024	SCALE: NTS	REV: A	

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UL TERMINAL TORQUES

HMCP CIRCUIT BREAKERS	
WIRE SIZE	TORQUE
14-10 AWG	35 LB-IN
8 AWG	40 LB-IN
6-4 AWG	45 LB-IN
3-4/0 AWG	50 LB-IN
4-250 MCM	275 LB-IN

FUSED DISCONNECTS	
RATING	TORQUE
30A	17 LB-IN
60A	17 LB-IN
100A	180 LB-IN
200A	375 LB-IN
400A	500 LB-IN

NON-FUSED DISCONNNECTS	
RATING	TORQUE
60A	18 LB-IN
100A	55 LB-IN
200A	375 LB-IN
400A	500 LB-IN

WIRE TERMINALS	
TYPE	TORQUE
SAK4	9 LB-IN
SAK6	14 LB-IN
SAK10	18 LB-IN
SAK16	21 LB-IN
SAK35	44 LB-IN

POWER DISTRIBUTION BLOCKS	
WIRE SIZE	TORQUE
2/0-3 AWG	120 LB-IN
350-500 MCM	375 LB-IN

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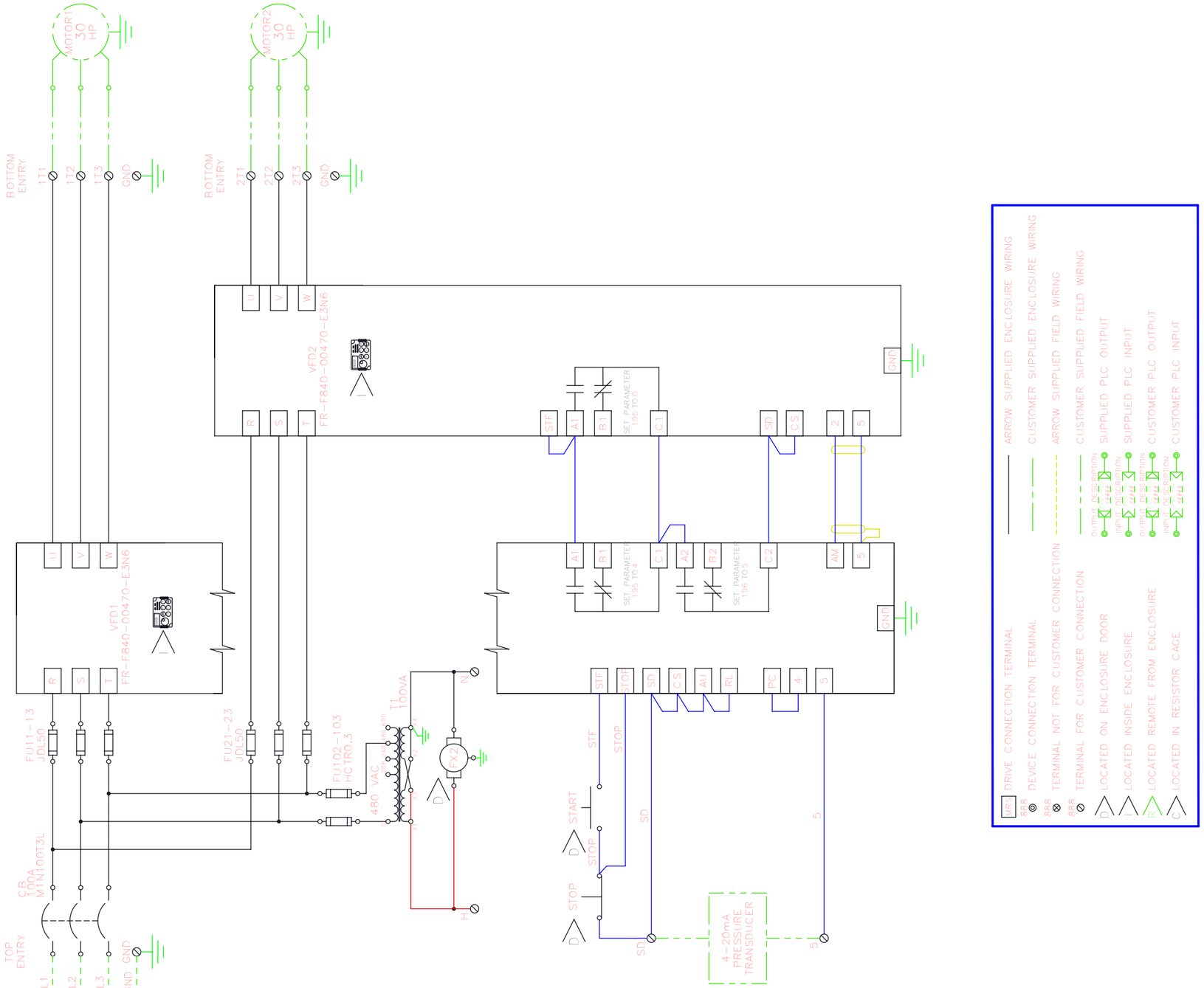
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240344	Take 5 - 065	
VFD ENCLOSURE LAYOUT 425-22072 - 2 X 30 HP 460 VAC		WV-022

TYPE:	COOLING:	DATE:	SIZE:	REV:
NEMA 1	FAN COOLED	1/18/2024	36" X 30" X 8"	A

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240344

Take 5 - 065

VFD WIRING DIAGRAM
425-22072 - 2 X 30 HP 460 VAC

WV-023

TYPE:	COOLING:	DATE:	SCALE:	REV:
NEMA 1	FAN COOLED	1/18/2024	NTS	A

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① INSTALL THE THREADED ADAPTER INTO THE TRANSDUCER. NEXT, INSTALL THE TRANSDUCER/ADAPTER INTO THE FILTER SEPARATOR WITH TEFLON TAPE. LASTLY, INSTALL THE TRANDSDUCER CABLE INTO THE TRANDSDUCER.

1. HAND TIGHTEN TO LOCK (DO NOT USE POWER OR PNEUMATIC TOOLS). THEN SNUG WITH WRENCH.
2. ENSURE THE GROOVE IS PROPERLY LINED UP ON THE TRANSDUCER AND TRANSDUCER CABLE BEFORE INSERTING.

② ROUTE TRANSDUCER CABLE TO VACUUM IQ (VFD)

1. ROUTE CABLE IN 3/4" CONDUIT AT A MINIMUM DISTANCE OF 12" FROM HIGH VOLTAGE CABLES. (CONDUIT SUPPLIED BY OTHERS)

③ IDENTIFY WHICH TRANSDUCER IS PROVIDED.

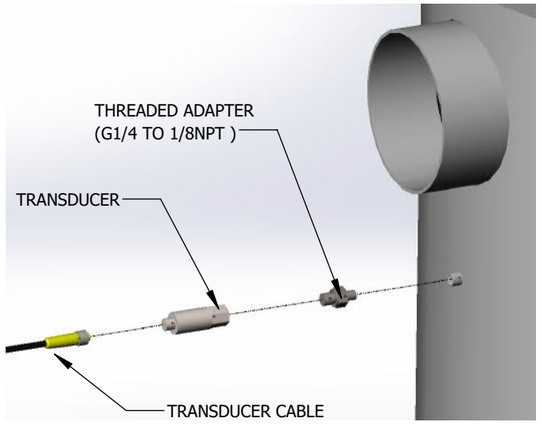
△1 "TURCK" WILL BE PRINTED ON THE SIDE AND WILL BE PROVIDED WITH A YELLOW CABLE END.

△2 "IFM" WILL BE PRINTED ON THE SIDE AND WILL BE PROVIDED WITH AN ORANGE CABLE END.

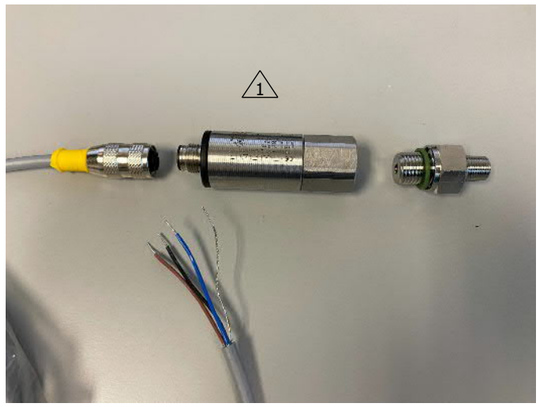
④ USE THE TABLE BELOW TO IDENTIFY WHICH WIRES WILL CORRESPOND TO THE DESIGNATED TERMINAL.

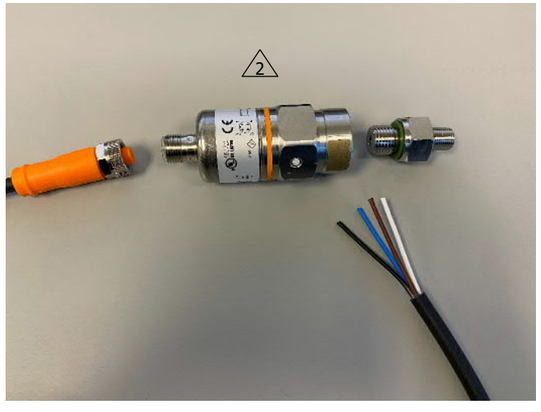
⑤ WIRE THE TRANSDUCER CABLE INTO THE TERMINAL BLOCK LOCATED INSIDE THE VACUUM IQ (VFD)

1

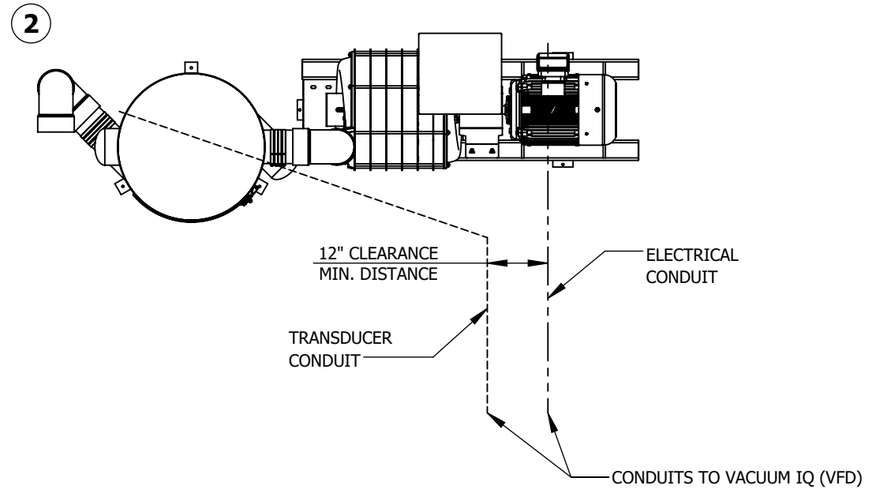


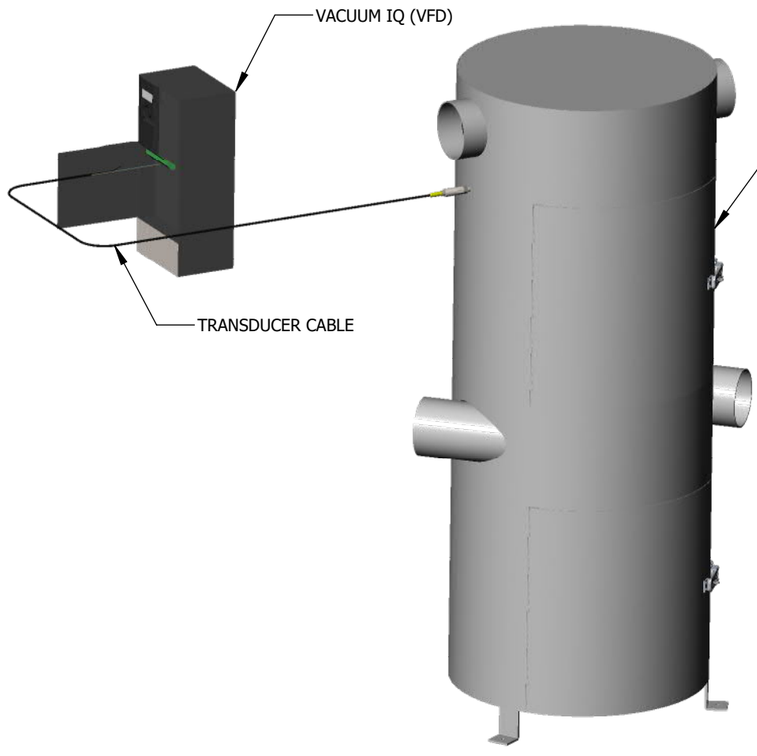
3





2





4

TRANSDUCER TYPE	WIRE COLOR	TERMINAL
△1 TURCK (YELLOW)	BLUE	SD
	BROWN	5
	BLACK	NOT USED
△2 IFM (ORANGE)	WHITE	SD
	BROWN	5
	BLACK	NOT USED
	BLUE	NOT USED

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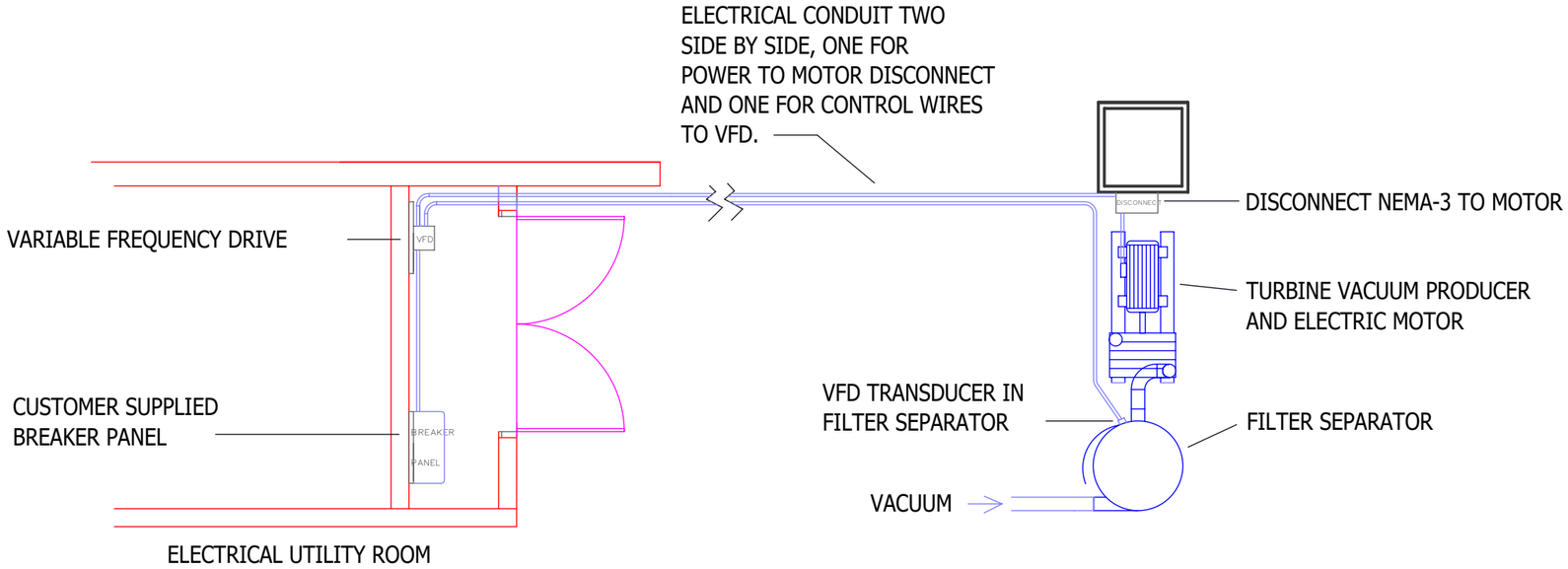
PRODUCT DATA SHEET
TRANSDUCER INSTALLATION

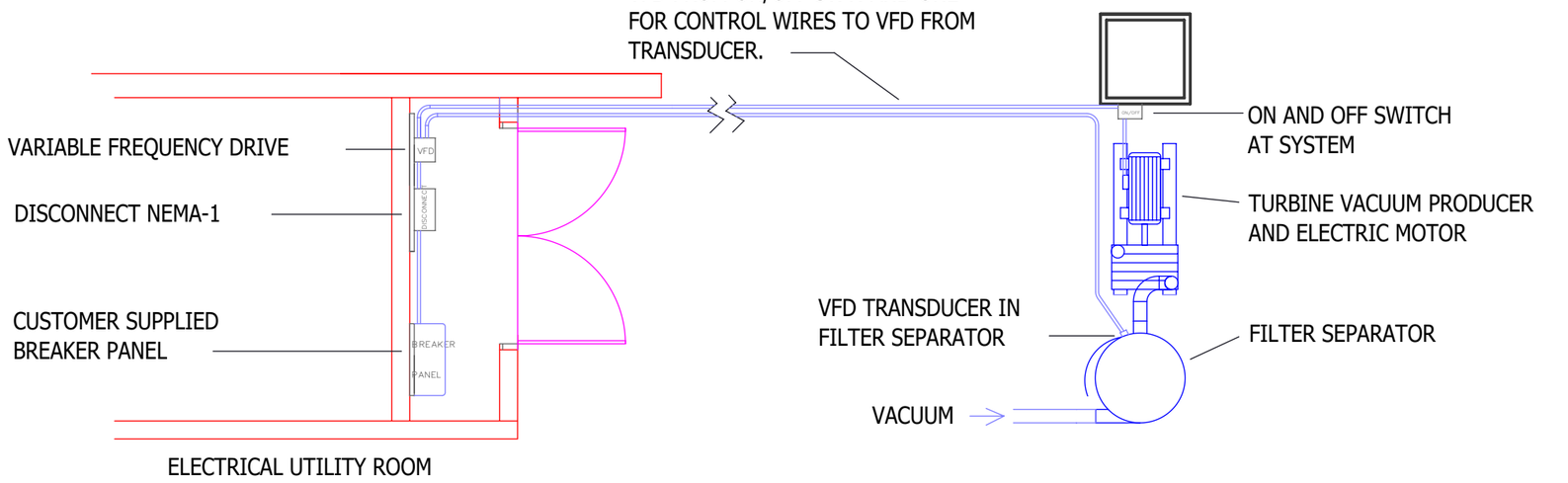
WV-024

WEIGHT:	DATE:	SCALE:	REV:
	1/10/2024	NTS	A

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PRODUCT DATA SHEET
BASIC ELECTRICAL LAYOUT WITH VFD

WV-025

WEIGHT:	DATE:	SCALE:	REV:
	1/10/2024	NTS	A

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