REQUEST FOR BIDS

ADDENDUM #2
Questions and Clarifications

Service Lane Renovation (General Contractor)
IFB #FED2019-13

TO: Prospective Bidders

FROM: Martha Howarter, Director of Federal Programs

DATE: October 23, 2019

SUBJECT: Addendum No. 2 – Questions and Clarifications

The following is included as part of Addendum No.2 and supersedes the language/requirements set forth in the original "Request for Proposals".

ADDENDUM # 2 – Questions and Clarifications

#	Questions submitted or asked	Response from GPMTD
1	Do you have a tentative construction schedule or a project duration?	***Not at this time.***
2	Do you have a plan for phasing and/or a temporary wash area we need to include with our bid?	***GC not required to provide temporary washing area.***
3	How long will Midwest Carwash Systems take to perform the install of the wash equipment?	***Refer to "General", #2 Farnsworth Section.***
4	Was door 1B31-1 eliminated via addendum #1?	***Yes, refer to Addendum #1***
5	Is the prep and painting of the floors an alternate or should we include that in our base bid?	***Yes, refer to the cover page of the drawings.***
6	Do you anticipate us needing a fork truck for unloading/staging the wash equipment?	***Refer to "General", #1 Farnsworth Section***
7	Whose responsibility is the compressed Air Piping and the process piping equipment?	***Refer to Q1.1 & M1.1 for extent of Compressed air Work. General Contractor to coordinate scope of subcontractors.***
8	Whose responsibility is the Demolition of the existing equipment including the water softener & Car wash equipment?	***Refer to QD1.1 & M1.1 for extent of Demolition Work. General Contractor to coordinate scope of subcontractors.***

#	Questions submitted or asked	Response from GPMTD
9	Is there a contact person for the interclean equipment contract? There are no drawings that show the size of plumbing lines & there is no drawing showing what is our scope and what is being provided by the Equipment supplier.	***Refer to InterClean Equipment shop drawings. All items labelled General Contractor (G) and Plumbing Contractor (P) for extent of Work. General Contractor to coordinate scope of subcontractors.***
10	Whose responsibility is the Jet Flushing of the existing catch basins?	***Refer to M1.1 for extent of Work. General Contractor to coordinate scope of subcontractors.***

The following pages to Addendum No. 2 was prepared by Farnsworth Group containing thirteen (13) pages, one (1) drawing and one (1) specification related to the Service Lane Renovations.

Addendum

Addendum Number: 02

Addendum Issue Date: October 23, 2019

Owner: Greater Peoria Mass Transit District

Project Name: Service Lane Renovation

Project Number: 0180459.05

Containing: 13 Pages; 1 Drawings; 1 Specifications

This addendum amends the drawings and specifications of the above reference project and is hereby incorporated into the contract documents as part thereof. Bidders must acknowledge receipt of this Addendum in the space provided on the Bid Form. ***FAILURE TO DO SO MAY SUBJECT BIDDER TO DISQUALIFICATION****.*

General:

1. The General Contractor shall provide 5,000lbs forklift capacity with extended forks for unloading the wash equipment.
2. The installation of the wash equipment by Midwest Carwash Systems will take approximately 2 weeks and another 3-5 days for start-up and training.
3. Overhead coiling door operating speeds slower than specified in section 08 3323 will not be accepted.
4. Revised equipment submittal from InterClean provided for reference.

Specifications:

1. ADD the attached specification: 08 7100 DOOR HARDWARE.
2. Owner's keying system is Medeco by Cops, Inc. Contractor to provide twenty (20) keys.

Drawings:

1. A7.1 Door Schedule, Elevations, and Details: Revised door hardware schedule.

Bids are Due: **October 31, 2019 / 2:00 PM** local time at **GPMTD PROCUREMENT, 2105 NE JEFFERSON AVENUE, PEORIA, ILLINOIS 61603-3535**.

Issued By:

FARNSWORTH GROUP, INC.
Douglas Draeger
Project Architect

Attachments:

08 7100 Door Hardware (5 pages), A7.1 (1 sheet), Revised InterClean Equipment submittal (12 pages)

SECTION 08710 - DOOR HARDWARE

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following:

1. Commercial door hardware.
2. Cylinders for doors specified in other Sections.

1.2 SUBMITTALS

A. Product Data: For each product indicated.

B. Shop Drawings: Include details of electrified door hardware and wiring diagrams.

C. Samples: For each exposed finish.

D. Door Hardware Schedule: Organized into door hardware sets indicating type, style, function, size, label, hand, manufacturer, fasteners, location, and finish of each door hardware item. Include description of each electrified door hardware function, including sequence of operation.

E. Keying Schedule: Detail Owner's final keying instructions for locks.

F. Product certificates.

1.3 QUALITY ASSURANCE

A. Supplier Qualifications: Person who is or employs a qualified DHI Architectural Hardware Consultant.

B. Source Limitations: Obtain electrified door hardware from same manufacturer as mechanical door hardware, unless otherwise indicated. Manufacturers that are listed to perform electrical modifications, by a testing and inspecting agency acceptable to authorities having jurisdiction, are acceptable.

C. Keying Conference: Conduct conference at Project site. Incorporate keying conference decisions into final keying schedule.

D. Pre-Installation Conference: Conduct conference at Project site.

E. Keys: Deliver keys to Owner by registered mail.

F. Templates: Obtain and distribute templates for doors, frames, and other work specified to be factory prepared for installing door hardware.

G. Standards: Comply with BHMA A156 series standards, Grade 1.

H. Certified Products: Provide door hardware that is listed in BHMA directory of certified products.

1.4 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fails in materials or workmanship within warranty period from date of Substantial Completion.

1. Warranty Period for Manual Closers: 10 years.
2. Warranty Period for Exit Devices: 10 years.
3. Warranty Period for Locks: 10 years.
4. All other hardware one year.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Product: Subject to compliance with requirements, provide the product named for each door hardware item indicated in Door Hardware Sets.

B. Basis-of-Design Product: Product named for each door hardware item indicated in Door Hardware Sets establishes the basis of design. Provide either the named product or a comparable product by one of the manufacturers specified for each type of hardware item.

C. Manufacturers Used in the specification:

Products	**Manufacture Specified**	**Acceptable Equals**
Hinges	Ives	Hager, Stanley
Continuous Hinges	Ives	Roton, Select
Locksets	Falcon T	Schlage ND, BEST 9K, Sargent 10-Line
Closers	Falcon SC71A	LCN 4050, Norton, Sargent
Cylinders	Match Existing: Medeco	

2.2 DOOR HARDWARE

A. Scheduled Door Hardware: Provide door hardware according to Door Hardware Sets at the end of Part 3. Manufacturers' names are abbreviated.

2.3 HINGES

A. General: Except for hinges and pivots to be installed entirely (both leaves) into wood doors and frames, provide only template-produced units.

B. Hinge Base Metal: Unless otherwise indicated, provide the following:

1. Exterior Hinges: Stainless steel, with stainless-steel pin.
2. Interior Hinges: Steel, with steel pin.

3. Hinges for Fire-Rated Assemblies: Steel, with steel pin.

C. Non-removable Pins: Provide set screw in hinge barrel that prevents removal of pin while door is closed; for out-swinging exterior doors.

D. Screws: Phillips flat-head screws; screw heads finished to match surface of hinges.

E. Metal Doors and Frames: Machine screws (drilled and tapped holes).

2.4 MECHANICAL LOCKS AND LATCHES

A. Cylindrical Locks:

1. Locks shall be ANSI A156.2, Series 4000 Grade 1 UL Listed for 3-hour doors. Manufactured from heavy gauge cold rolled steel mechanisms that are corrosion treated for normal conditions.
2. Locks to have standard 2-3/4” backset with a full 1/2" reversible dead latch. Thru-bolted mounting post for positive interlock to the door with concealed mounting screws.
3. Lever trim shall be pressure cast zinc to match finishes. The design specified, with 3-7/16” diameter roses. Trim shall be applied by “no exposed screws”.

2.5 CLOSERS

A. Surface-Mounted Closers:

B. Spring power shall be continuously adjustable over the full range of closer sizes, and allow for reduced opening force for the physically handicapped. Hydraulic regulation shall be by tamper-proof, non-critical valves. Closers shall have separate adjustment for latch speed, general speed, and back check.

C. All closers will not be seen on the public side or hallway side of the door. The appropriate drop plate or mounting plates will be used as conditions dictate.

2.6 STOPS AND HOLDERS

A. Stops and Holders: Provide floor stops for doors, unless wall or other type stops are scheduled or indicated. Do not mount floor stops where they will impede traffic. Where floor or wall stops are not appropriate, provide overhead holders.

B. Silencers for Door Frames: Neoprene or rubber; fabricated for drilled-in application to frame.

2.7 DOOR GASKETING AND THRESHOLDS

A. Door Gasketing: Provide continuous weather-strip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated or scheduled. Provide non-corrosive fasteners for exterior applications and elsewhere as indicated.

2.8 CYLINDERS, KEYING, AND STRIKES

A. Cylinders: Tumbler type, constructed from brass or bronze, stainless steel, or nickel silver.

B. Keying System: Match existing: Medeco

C. Keys: Provide twenty (20) keys.

2.9 FABRICATION

A. Base Metals: Furnish metals of a quality equal to or greater than that of specified door hardware units and BHMA A156.18 for finishes. Do not furnish manufacturer's standard materials if different from specified standard.

B. Fasteners: Phillips flat-head screws with finished heads to match surface of door hardware, unless otherwise indicated. Provide steel machine or wood screws or steel through bolts for fire-rated applications.

C. Spacers or Sex Bolts: For through bolting of hollow metal doors.

D. Fasteners for Wood Doors: Comply with requirements of DHI WDHS.2, "Recommended Fasteners for Wood Doors."

E. Finishes: Comply with BHMA A156.18.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Examine doors and frames for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.

B. Steel Door and Frame Preparation: Comply with DHI A115 series. Drill and tap doors and frames for surface-applied hardware according to SDI 107.

C. Wood Door Preparation: Comply with DHI A115-W series.

D. Mounting Heights: Comply with the following requirements, unless otherwise indicated:

1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
2. Custom Steel Doors and Frames: DHI's "Recommended Locations for Builders' Hardware for Custom Steel Doors and Frames."
3. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."

E. Adjust and reinforce attachment substrates as necessary for proper installation and operation. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.

1. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."

F. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with accessibility requirements.

1. Door Closers: Adjust sweep period so that from an open position of 70 degrees, the door will take at least three seconds to move to a point 3 inches (75 mm) from the latch, measured to the leading edge of the door.

3.2 FIELD QUALITY CONTROL

A. Inspections: Contractor to engage a qualified independent Architectural Hardware Consultant to perform inspections and to prepare inspection reports. Provide report to architect.

3.3 DOOR HARDWARE SETS

Hardware Set # 1

1B35-1, 1B29-3, 1B29-4

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	MA581 LD DG	626	FAL
1	EA	SURFACE CLOSER	SC71 RW/PA	689	FAL
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS401/402CVX	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

One Medeco cylinder by Cops, Inc.

Hardware Set # 2

1B29-2, 1B30-1, 1B33-1

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PASSAGE LEVER	T101 DANE	626	FAL
1	EA	SURFACE CLOSER	SC71 RW/PA	689	FAL
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS401/402CVX	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

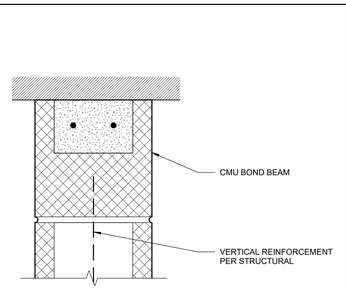
END OF SECTION 08 7100

DOOR SCHEDULE

	DOOR							DOOR FRAME			HEAD DETAIL NO.	JAMB DETAIL NO.	THRESH DETAIL NO.	LBL	HDWR SET	REMARKS
NO.	WIDTH	HEIGHT	THICK	MAT'L	FINISH	ELEV	MAT'L	FINISH	ELEV							
FINISHED FLOOR																
1B29-1	16' - 0"	12' - 0"	1"	PF	AL	OHCD	PF	AL	-							
1B29-2	3' - 0"	7' - 0"	1 3/4"	HM	PNT-2	F	HM	PNT-2	1	1/A7.1	2/A7.1				02	
1B29-3	3' - 0"	7' - 0"	1 3/4"	HM	PNT-2	F	HM	PNT-2	1	1/A7.1	2/A7.1				01	
1B29-4	3' - 0"	7' - 0"	1 3/4"	HM	PNT-2	F	HM	PNT-2	1	1/A7.1	2/A7.1				01	
1B29-5	16' - 0"	12' - 0"	1"	PF	AL	OHCD	PF	AL	-							
1B30-1	3' - 0"	7' - 0"	1 3/4"	HM	PNT-2	F	HM	PNT-2	1	1/A7.1	2/A7.1				02	
1B33-1	3' - 0"	7' - 0"	1 3/4"	HM	PNT-2	F	HM	PNT-2	1	1/A7.1	2/A7.1				02	
1B35-1	3' - 6"	7' - 0"	1 3/4"	HM	PNT-2	F	HM	PNT-2	1	1/A7.1	2/A7.1				01	

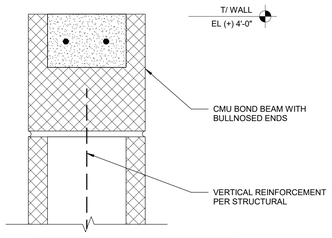
AL= ALUMINUM
EXIST= EXISTING
HM= HOLLOW METAL
IHM= INSULATED HOLLOW METAL
OHD= OVERHEAD DOOR

PF= PREFINISHED
PNT= PAINT



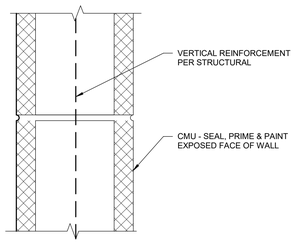
REFER TO PARTITION DESIGNATION FOR WALL SHEATHING AND STUD SIZE. REFER TO UL RATING FOR ADDITIONAL REQUIREMENTS.

12 TYPE A_FULL HT CMU WALL
Scale: 3" = 1'-0"



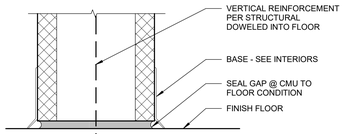
REFER TO PARTITION DESIGNATION FOR WALL SHEATHING AND STUD SIZE. REFER TO UL RATING FOR ADDITIONAL REQUIREMENTS.

11 TYPE G_PARTIAL HT CMU WALL
Scale: 3" = 1'-0"



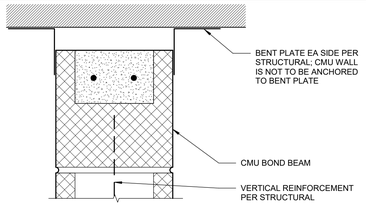
REFER TO PARTITION DESIGNTATION FOR WALL SHEATHING AND STUD SIZE. REFER TO UL RATING FOR ADDITIONAL REQUIREMENTS.

10 STRUCTURE_MASONRY WALL
Scale: 3" = 1'-0"



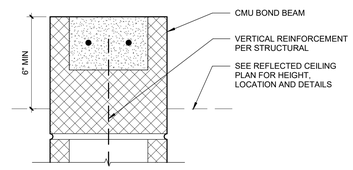
REFER TO PARTITION DESIGNATION FOR WALL SHEATHING AND STUD SIZE. REFER TO UL RATING FOR ADDITIONAL REQUIREMENTS.

9 TYPICAL CMU WALL BASE CONDITION
Scale: 3" = 1'-0"



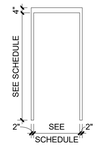
REFER TO PARTITION DESIGNATION FOR WALL SHEATHING AND STUD SIZE. REFER TO UL RATING FOR ADDITIONAL REQUIREMENTS.

8 TYPE B_FULL HT CMU WALL WITH DEFLECTION TRACK
Scale: 3" = 1'-0"



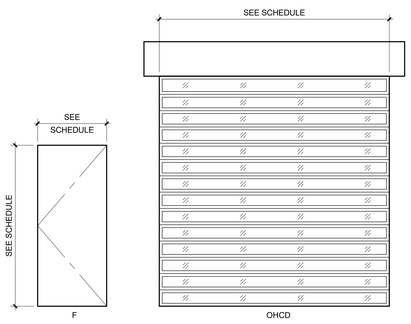
REFER TO PARTITION DESIGNATION FOR WALL SHEATHING AND STUD SIZE. REFER TO UL RATING FOR ADDITIONAL REQUIREMENTS.

7 TYPE F_PARTIAL HT CMU WALL ABOVE CEILING
Scale: 3" = 1'-0"



NOTES:
1. PROVIDE FIRE-RATED GLASS AT FIRE RATED CONDITIONS
2. ALL EXTERIOR GLASS SHALL BE INSULATED
3. ALL GLASS MUST BE TEMPERED

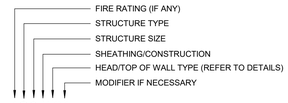
6 FRAME ELEVATIONS
Scale: 1/4" = 1'-0"



NOTES:
1. PROVIDE FIRE-RATED GLASS AT FIRE RATED CONDITIONS
2. ALL EXTERIOR GLASS SHALL BE INSULATED
3. ALL GLASS MUST BE TEMPERED

5 DOOR ELEVATIONS
Scale: 3/8" = 1'-0"

PARTITION TAG DESIGNATION

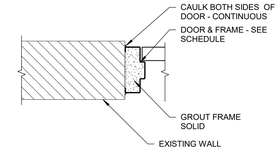


FIRE RATING:
X = SMOKE
0 = 1/2 HOUR
1 = 1 HOUR
2 = 2 HOUR
3 = 3 HOUR
4 = 4 HOUR

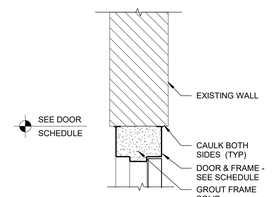
STRUCTURE TYPE:
C = CONCRETE WALL
E = EXISTING WALL
F = FIRE WALL
H = SHAFT WALL
M = MASONRY
S = STEEL STUDS
W = WOOD STUDS

STRUCTURE SIZE:

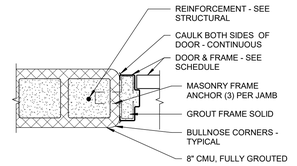
CONCRETE	CMU	BRICK	SHAFT STUDS	STEEL STUDS	WOOD STUDS
4 = 4"	4 = 3 5/8"	4 = 3 5/8"	2 = 2 1/2"	0 = 7/8"	2 = 1 1/2
6 = 6"	6 = 5 5/8"	6 = 5 1/2"	4 = 4"	1 = 1 5/8"	4 = 2X4
8 = 8"	8 = 7 5/8"	8 = 7 1/2"	6 = 6"	2 = 2 1/2"	6 = 2X6
0 = 10"	0 = 9 5/8"			4 = 3 5/8"	8 = 2X8
2 = 12"	2 = 11 5/8"			6 = 6"	
				8 = 8"	



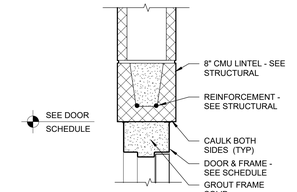
4 JAMB DETAIL @ EXISTING WALL
Scale: 1 1/2" = 1'-0"



3 HEAD DETAIL @ EXISTING WALL
Scale: 1 1/2" = 1'-0"



2 JAMB DETAIL @ CMU
Scale: 1 1/2" = 1'-0"



1 HEAD DETAIL @ CMU
Scale: 1 1/2" = 1'-0"

PARTITION TYPE NOTES

A. AT ALL FIRE RATED SEPARATIONS, EXTEND GYPSUM BOARD THROUGH ALL CHASES AND WALL INTERSECTIONS TO PROVIDE A CONTINUOUS UNINTERRUPTED LAYER OF 5/8" GYPSUM BOARD ON EACH SIDE OF THE PARTITION AND SEPARATION. SEAL ALL PENETRATIONS WITH APPROVED U.L. LISTED SEALANT AND/OR SEALANT ASSEMBLIES.

B. AT ALL SMOKE SEPARATIONS, EXTEND GYPSUM BOARD THROUGH ALL CHASES AND WALL INTERSECTIONS TO PROVIDE A CONTINUOUS UNINTERRUPTED LAYER OF 5/8" GYPSUM BOARD ON EACH SIDE OF THE PARTITION AND SEPARATION. SEAL ALL PENETRATIONS WITH APPROVED U.L. LISTED SEALANT AND/OR SEALANT ASSEMBLIES TO LIMIT THE PASSAGE OF SMOKE.

C. CONTROL JOINTS SHALL BE INSTALLED AT ALL CONSTRUCTION CHANGES WITHIN A PLANE OF PARTITION OR CEILING, AT PARTITION RUNS THAT EXCEED 30'-0" IN LENGTH, CEILING DIMENSIONS THAT EXCEED 50' IN EITHER DIRECTION WITH PERIMETER RELIEF AND 30' WITHOUT, AT WINGS OF "L", "U" AND "T" SHAPED CEILING AREAS, AT BUILDING EXPANSION OR CONTROL JOINTS. CONTROL JOINTS SHALL BE INSTALLED AT EACH DOOR FROM OUTSIDE CORNER OF THE TOP OF DOOR JAMB TO ABOVE CEILING. REFER TO PUBLISHED CONTROL JOINT DETAILS IN GA 600-900 FIRE RESISTANCE DESIGN MANUAL.

D. CONTRACTOR SHALL PROVIDE ADDITIONAL MATERIALS TO MAINTAIN THE APPROPRIATE FIRE RATING WHERE CONTROL JOINTS ARE LOCATED IN FIRE-RATED PARTITIONS. INSTALLATION SHALL BE PER THE DETAILS SHOWN IN THE LATEST PUBLICATION OF THE USG CONSTRUCTION HANDBOOK, GYPSUM ASSOCIATION PUBLICATION OR UNDERWRITERS LABORATORY FIRE RESISTANCE DIRECTORY AND AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.

E. AT UL LISTED RATED ASSEMBLIES, THE CONTRACTOR IS TO VERIFY THE GYPSUM BOARD TYPE AND MANUFACTURER BASED ON THE WRITTEN DESCRIPTIONS FOR THE APPROPRIATE UL LISTED ASSEMBLY RATING SPECIFICATIONS FOUND IN THE LATEST EDITION OF THE UNDERWRITERS LABORATORY FIRE RESISTANCE DIRECTORY.

F. AT THE BASE AND HEAD OF ALL WALLS REQUIRING SOUND ATTENUATION INSULATION, ENSURE THAT THE GYPSUM WALL PANELS ARE NOT OFFSET FROM THE SUBFLOOR OR THE STRUCTURE ABOVE MORE THAN 1/2". IF CONSTRUCTION CONDITIONS REQUIRE THE GYPSUM WALL PANELS TO BE OFFSET MORE THAN 1/2", PROVIDE A CONTINUOUS BEAD OF BACKER ROD AND SEALANT TO PREVENT THE WALL BASE FROM DEFLECTING INTO THE CAVITY.

G. AT THE BASE OF ALL WALLS NOT REQUIRING SOUND ATTENUATION INSULATION, ENSURE THAT THE GYPSUM BOARD WALL PANELS ARE NOT OFFSET FROM THE SUBFLOOR GREATER THAN 1/2". IF CONSTRUCTION CONDITIONS REQUIRE THE GYPSUM BOARD WALL PANELS TO BE INSTALLED WITH AN OFFSET GREATER THAN 1/2", PROVIDE A CONTINUOUS BEAD OF BACKER ROD AND SEALANT TO PREVENT THE WALL BASE FROM DEFLECTING INTO THE CAVITY.

H. PROVIDE RED ROSIN PAPER OR SIMILAR MATERIAL BETWEEN DISSIMILAR MATERIALS

I. PROVIDE INSULATION AND/OR SOUND ATTENUATION INSULATION IN ALL SUBORDINATE (SIMILAR) PARTITIONS UNLESS OTHERWISE NOTED OR SHOWN.

J. PROVIDE 5/8" FIRE RATED MOISTURE RESISTANT/MOLD RESISTANT GYPSUM BOARD AT ALL LOCATIONS WHERE WATER PRODUCING DEVICES MAY BE PRESENT OR SPLASHED ONTO THE WALL SURFACE (I.E. WATER COOLERS, SINKS, LAVATORIES, HOSE BIBS, ETC.). EXTEND GYPSUM BOARD A MINIMUM OF 4'-0" IN ALL DIRECTIONS FROM CENTER OF DEVICE.

K. EXTEND FIRE RATED PARTITIONS, BARRIERS AND OTHER SEPARATIONS TO BOTTOM OF ROOF DECK ABOVE AND TO EXTERIOR WALL. EXTEND GYPSUM BOARD TO FURTHEST EXTENT POSSIBLE AND AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.

L. PROVIDE CONTINUOUS STIFFENER CHANNELS AT 4'-0" MAXIMUM VERTICAL SPACING, TYPICAL. ALSO PROVIDE AT MIDPOINT BETWEEN BOTTOM OF STRUCTURE AND HEAD OF INTERIOR WINDOWS AND DOORS AS WELL AS HINGE MIDPOINT AT DOORS. IF DOOR OPENING IS OVER 4'-0" LONG, PROVIDE STIFFENER CHANNELS AT ALL HINGE POINTS FOR MINIMUM OF 2 STUD SPACES HORIZONTALLY.

M. AT ALL INTERSECTIONS WITH CEILINGS, PROVIDE METAL STUD FIRE BLOCKING AT NO GREATER THAN 8'-0" APART AND AS REQUIRED BY THE FIRE RATED ASSEMBLY.

N. PROVIDE TILE BACKER BOARD AT AREAS TO RECEIVE TILE FINISH.

Farnsworth GROUP
100 WALNUT STREET, SUITE 200
PEORIA, ILLINOIS 61602
(309) 689-9888 / info@f-w.com
www.f-w.com
Engineers | Architects | Surveyors | Scientists

wendel
Centerpointe Corporate Park
375 Essjay Road, Suite 200
Williamsville, NY 14221
www.wendelcompanies.com
p:716.688.0766 f:716.625.6825

ISSUE:

#	DATE:	DESCRIPTION:
1	10/23/2019	ADDENDUM #2

BID SET
10/1/2019

PROJECT:
Greater Peoria Mass Transit District

CityLink Service Bay Remodel

2105 NE Jefferson Street
Peoria, IL 61603

DATE:	10/1/2019
DESIGNED:	DRD
DRAWN:	TAW
REVIEWED:	EJB

SHEET TITLE:

DOOR SCHEDULE, ELEVATIONS AND DETAILS

SHEET NUMBER:

A7.1

PROJECT NO.: 0180459.05

10/23/2019 9:58:23 AM

DRAWING INDEX

DRAWING NUMBER	DESCRIPTION
#LY19-074-00	DRAWING INDEX
#LY19-074-01	3D VIEW
#LY19-074-02	PLAN VIEW
#LY19-074-03	SIDE VIEW
#LY19-074-04	END VIEW
#LY19-074-05	PLUMBING SCHEMATIC
#LY19-074-06A	ELECTRICAL LAYOUT 1 OF 2
#LY19-074-06B	ELECTRICAL LAYOUT 2 OF 2
#LY19-074-07	EQUIPMENT LAYOUT
#LY19-074-08	PIPING 3D
#LY19-074-09	CONCRETE LAYOUT
#LY19-074-10	UNDERGROUND CONDUITS

System List

Prefix	Description
ACS	Air Compressed System
CPS	Customer Provided System
CSD	Control System Device
DES	Dedicated Electrical System
DET	Detergent System
FWS	Fresh Water System
PHS	PH Control System
ROS	Reverse Osmosis (RO) System
RWS	Reclaim Water System
WCS	Wheel/Chassis System

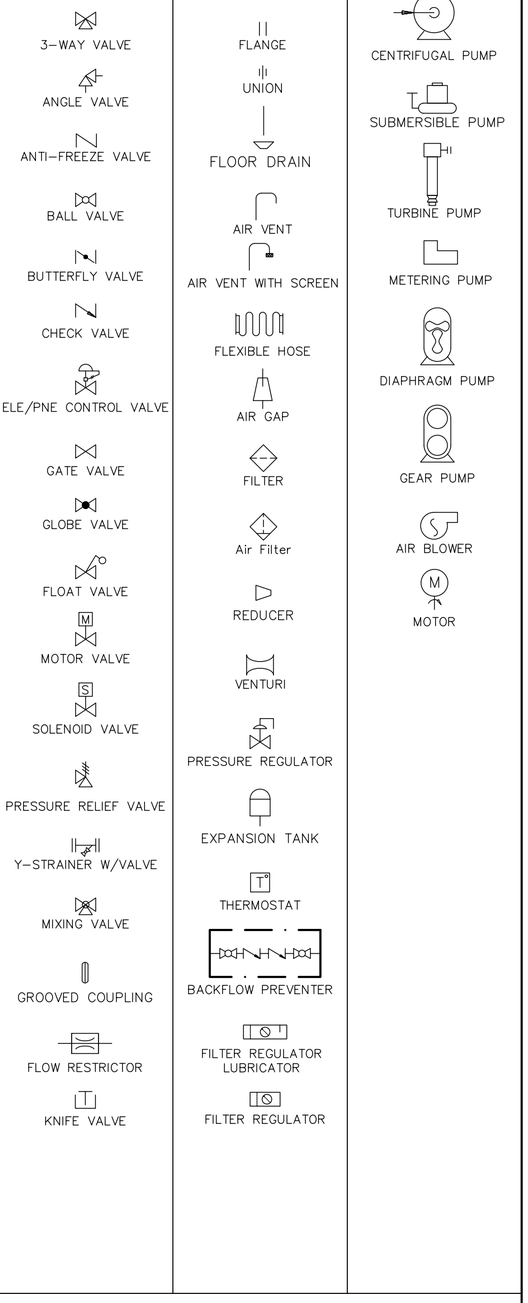
Component List

Prefix	Description
ACD	Acid Chemical
ALK	Alkaline Chemical
AC	Air Compressor
BL	Blower
BR	Brush
CD	Customer Device
DSP	Distributed I/O Panel
F	Filter
MCP	Main Control Panel
MDP	Main Distribution Panel
OS	Oil Skimmer
P	Pump
PCP	Pneumatic Control Panel
SCP	Slave Control Panel
TK	Tank
WS	Water Softener
WH	Water Heater

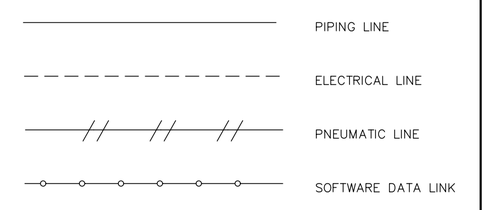
Device List

Prefix	Description
AI	Analog Inupt
AO	Analog Outupt
AU	Air Condition Unit
BV	Ball Valve
BFV	Butterfly Valve
CAV	Co-Ax Valve
CXV	Customer Device
CV	Check Valve
DI	Digital Input
DO	Digital Output
ES	Emergency Stop
FI	Flow Rate Indicator
FT	Flow Rate Transmitter
FIT	Flow Rate Transmitter w/Indicator
FV	Flow Regulator
HMI	Touchscreen
HRN	Audible Alarm/Horn
LI	Level Indicator
LT	Level Transmitter
LIT	Level Transmitter w/Indicator
LSHH	High High Level Alarm Sensor
LSH	High Level Alarm Sensor
LSL	Low Level Alarm Sensor
LSLL	Low Low Level Alarm Sensor
LSO	Overflow Level Sensor
NA	Motor Run Status
PB	Push Button
PCV	Pneumatic Control Valve
PHS	Ph Sensor
PI	Pressure Indicator
PIT	Pressure Transmitter w/Indicator
PT	Pressure Transmitter
PV	Pressure Regulator
SPI	Speed Display
SSW	Select Switch
STB	Stobe Light/Visual Annuciator
SV	Solenoid Valve
TI	Temperature Indicator
TIT	Temperature Transmitter/w Indicator
TT	Temperature Transmitter
TTB	Traffric Light, Red/Green
WCD	Wireless Control Device
YE	Photoelectric Source Sensor
YES	Photoelectric Receiver Sensor
YEL	Limit Switch
YS	Proximity Sensor
XFM	Transformer
XSS	Motor Start/Stop Switch

P&ID SYMBOL



P&ID LINE TYPE



INTERCLEAN

709 James L Hart Parkway
Ypsilanti, MI 48197

Web Site: www.interclean.com
E-mail: sales@interclean.com
Phone: (734) 961-3300
(800) 468-3725
Fax: (734) 961-0092

R.	DATE	DESCRIPTION	BY	APPR
B	10/10/19	MOVED CHASSIS SPRAY BAR & TRENCH	TB	SIL
A	9/26/19	EQUIPMENT RELOCATED	TB	SIL

InterClean Equipment

DESIGN:	DRAWN:
SIL	TB
CHECK:	APPR:
SIL	SIL
SCALE:	
NO SCALE	

GPMTD - 2019, PEORIA, IL
XJ404 FRESH WATER VEHICLE WASH SYSTEM
DRAWING INDEX

DATE: 09/11/2019
PART NO: #LY19-074-00
WEIGHT:

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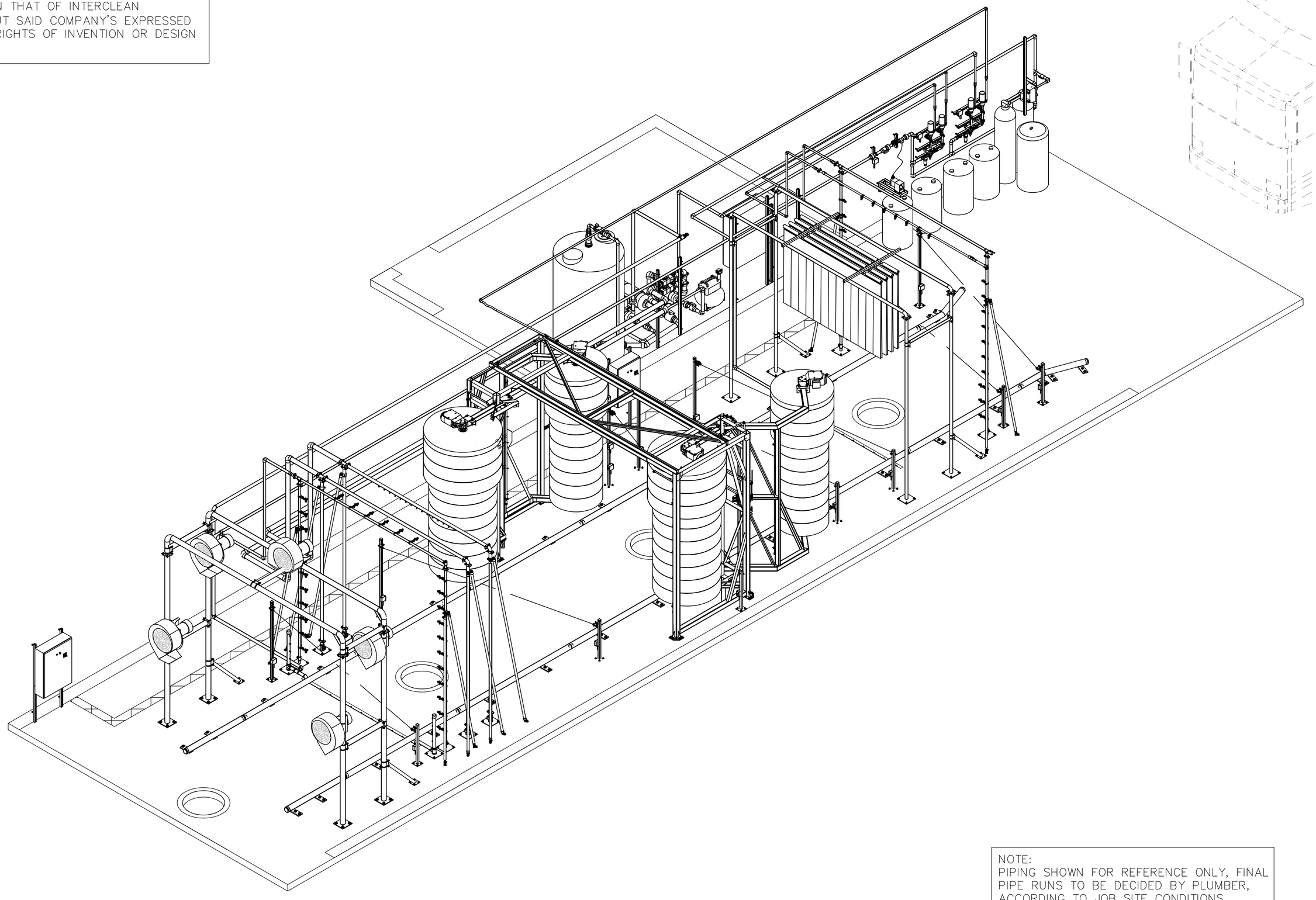

NOTE:
PIPING SHOWN FOR REFERENCE ONLY, FINAL PIPE RUNS TO BE DECIDED BY PLUMBER, ACCORDING TO JOB SITE CONDITIONS

R.	DATE	DESCRIPTION	BY	APPR
B	10/10/19	MOVED SPRAY BAR & TRENCH POSITION	TB	SIL
A	9/26/19	EQUIPMENT RELOCATED	TB	SIL

InterClean Equipment

DESIGN:	DRAWN:
SIMON	TB
CHECK:	APPR:
SIL	SIL
SCALE: NO SCALE	

GPMTD - 2019, PEORIA, IL
XJ404 FRESH WATER VEHICLE WASH SYSTEM
3-D VIEW

DATE: 09/11/2019
PART NO: #LY19-074-01
WEIGHT:

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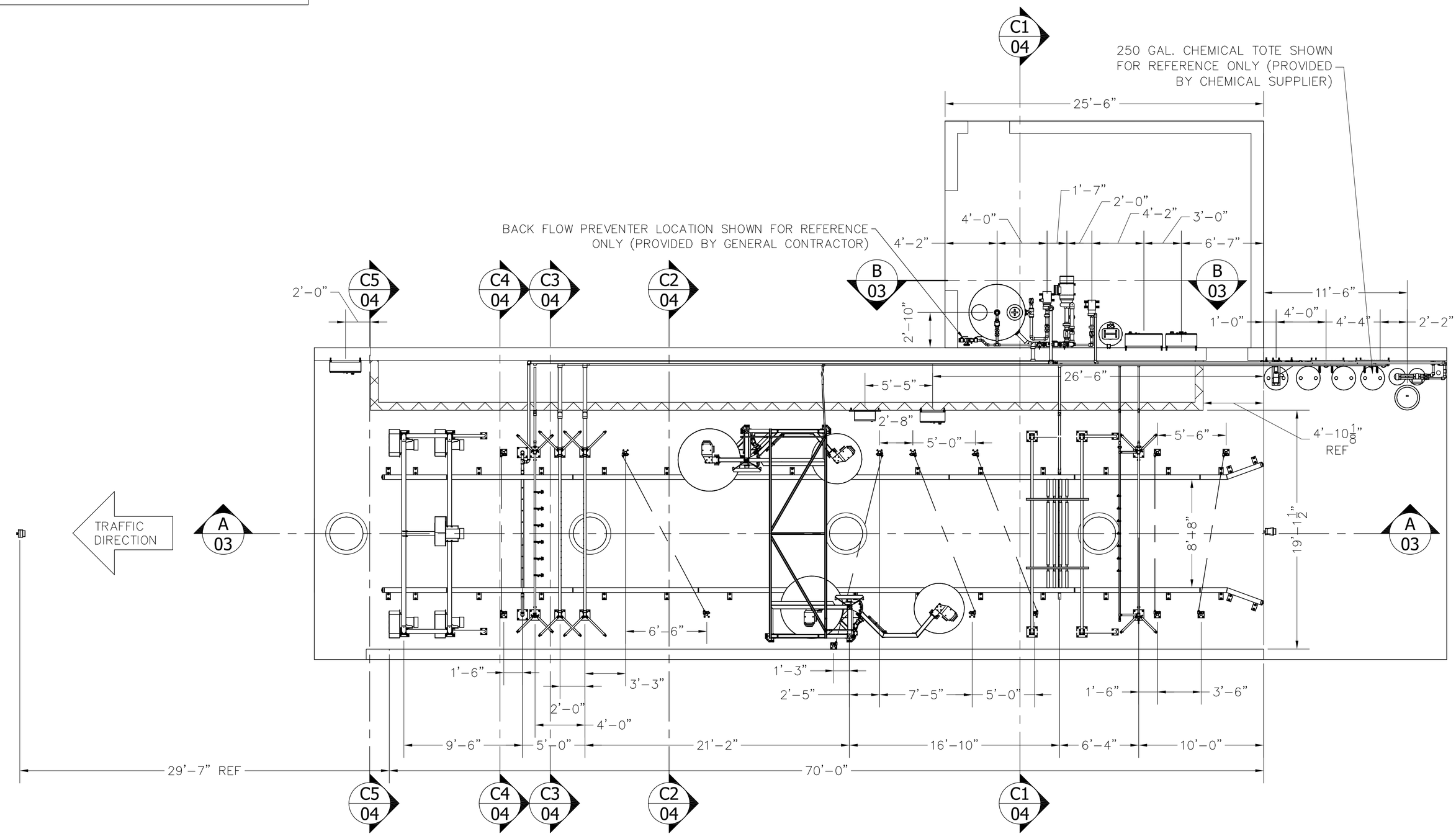
NOTE:
THE CONCRETE MUST CURE FOR 27 DAYS BEFORE INSTALLING TIRE GUIDES



R.	DATE	DESCRIPTION	BY	APPR
B	10/10/19	MOVED SPRAY BAR & TRENCH POSITION	TB	SIL
A	9/26/19	EQUIPMENT RELOCATED	TB	SIL

InterClean Equipment

DESIGN:	DRAWN:
SIMON	TB
CHECK:	APPR:
SIL	SIL
SCALE: 3/16"=1'	

GPMTD - 2019, PEORIA, IL
XJ404 FRESH WATER VEHICLE WASH SYSTEM
PLAN VIEW

DATE: 09/11/2019
PART NO: #LY19-074-02
WEIGHT:

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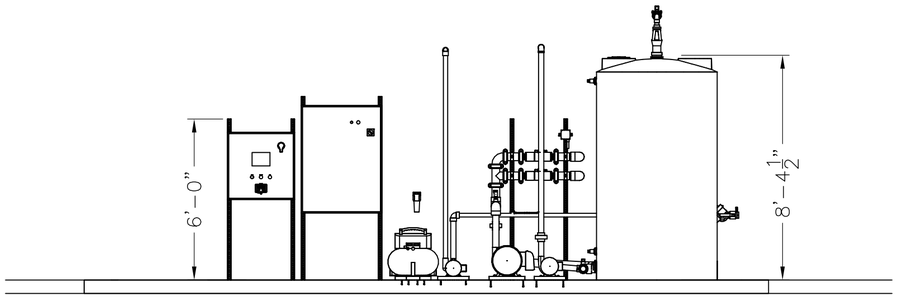
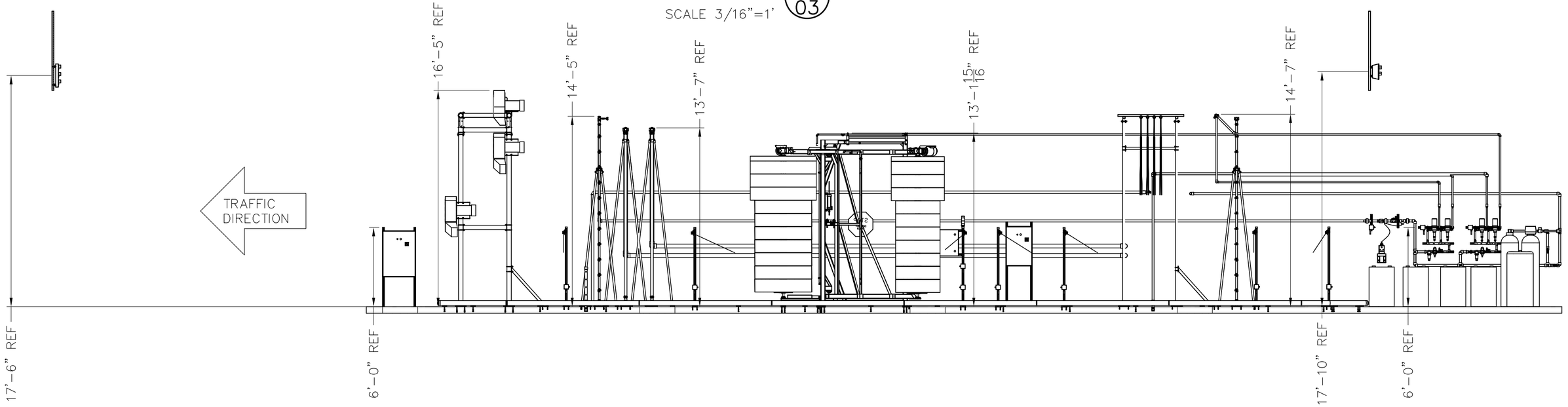
SECTION B/03

SCALE 1/4"=1'



SECTION A/03

SCALE 3/16"=1'



R.	DATE	DESCRIPTION	BY	APPR
B	10/10/19	MOVED SPRAY BAR & TRENCH POSITION	TB	SIL
A	9/26/19	EQUIPMENT RELOCATED	TB	SIL

InterClean Equipment

DESIGN:	DRAWN:
SIMON	TB
CHECK:	APPR:
SIL	SIL
SCALE:	
SCALE VARIES	

GPMTD - 2019, PEORIA, IL
XJ404 FRESH WATER VEHICLE WASH SYSTEM
SIDE VIEW

DATE: 09/11/2019
PART NO: #LY19-074-03
WEIGHT:

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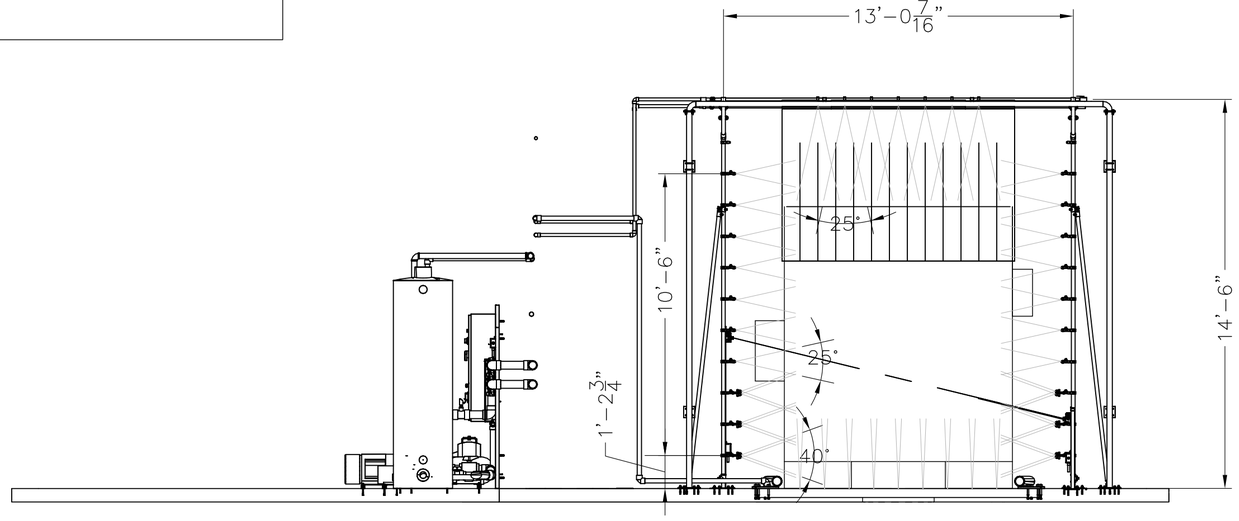
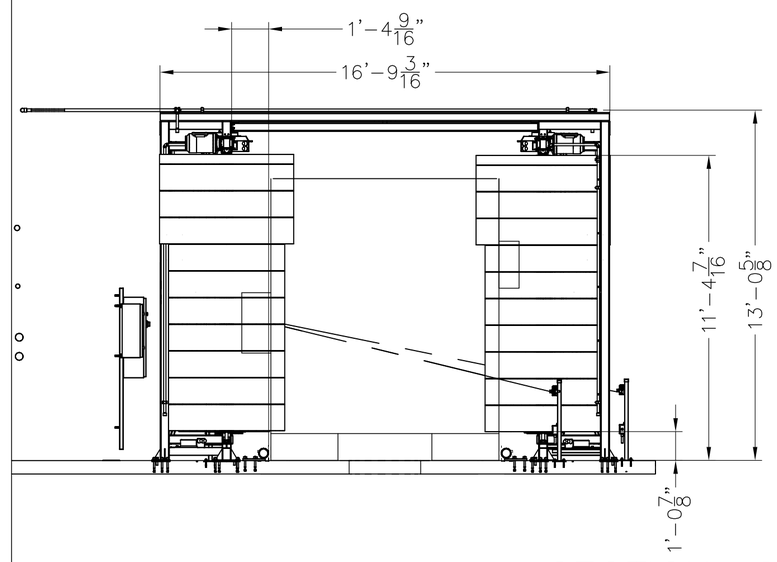
CHEMICAL SPRAY / ROOF MOP/
RUST INHIBOTOR APPLICATION



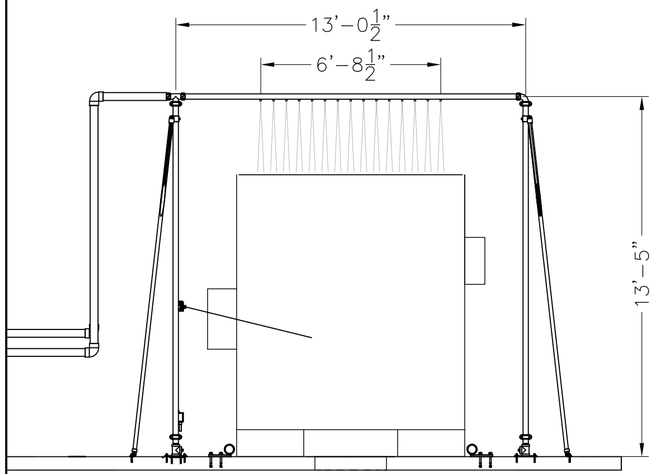
SECTION C1 / 04
SCALE 1/4"=1'

BRUSHES



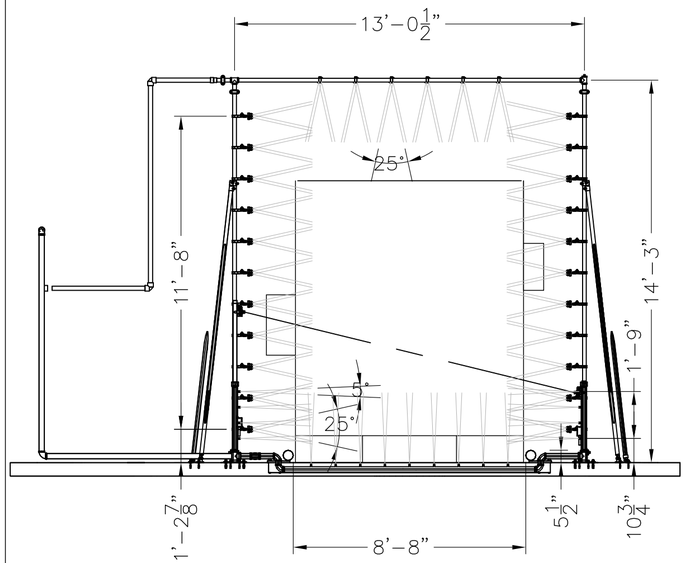
SECTION C2 / 04
SCALE 1/4"=1'

FRONT/REAR SPRAY



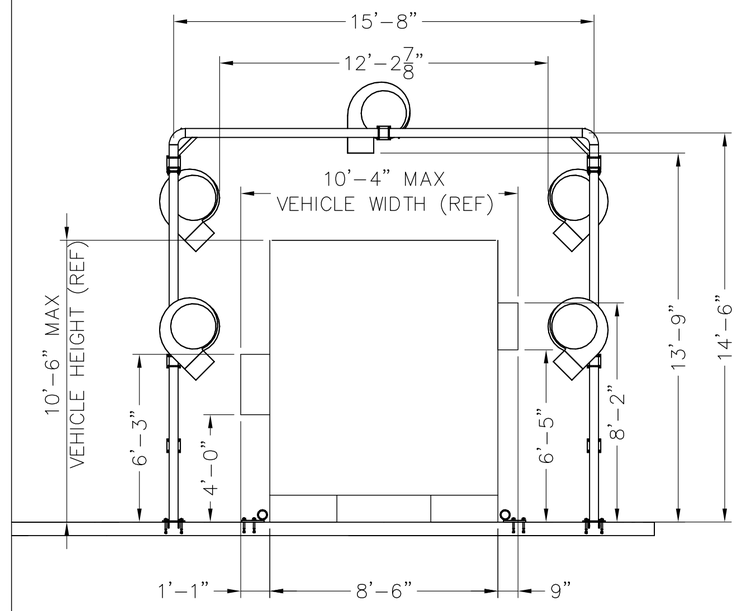
SECTION C3 / 04
SCALE 1/4"=1'

RINSE/WHEEL AND CHASSIS SPRAY



SECTION C4 / 04
SCALE 1/4"=1'

BLOWERS



SECTION C4 / 05
SCALE 1/4"=1'

R.	DATE	DESCRIPTION	BY	APPR
B	10/10/19	MOVED SPRAY BAR & TRENCH POSITION	TB	SIL
A	9/26/19	EQUIPMENT RELOCATED	TB	SIL

InterClean Equipment

DESIGN:	DRAWN:
SIMON	TB
CHECK:	APPR:
SIL	SIL
SCALE: 1/4"=1'	

GPMTD - 2019, PEORIA, IL
XJ404 FRESH WATER VEHICLE WASH SYSTEM
END VIEW

DATE: 09/11/2019
PART NO: #LYI9-074-04
WEIGHT:

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RINSE MODULE DWG. #DY19-094_1

1 1/2" PVC80

WATER SOFTENER

BACK WASH HOSE

3HP FWS-P1

2" PVC

1/2" OD TUBING

CHEMICAL MODULE DWG. #DY18-246_1

LUBRICANT CONTAINER

RUST INHIBITOR CONTAINER

CHEMICAL CONTAINER

CHEMICAL MODULE DWG. #DY12-164_1

RINSE AID CONTAINER

WALL MODULE DWG. #DY04-065_1

1" PVC80

3" SCH40 GALV.

30HP FWS-P3

3" PVC

2" PVC80

BRASS

TANK 925 GALLON

FWS-TK1

2" SCH40 GALV

1/2" AIR HOSE

6 GAL. TANK

AIR COMPRESSOR (AC2)

MOUNT 1/2" ANTI-SIPHON CHECK VALVE, HORIZONTALLY, MIN 12" ABOVE WATER TANK MAX. WATER LEVEL

5HP FWS-P2

PNEUMATIC PANEL DWG: #DY18-854_1

3/4" OD TUBING

1 1/2" SOCKET

2" NPT

3" SCH40 GALV.

1" SOCKET

5X10 HP AIR BLOWER

WHEEL & CHASSIS WASHER

RINSE ARCH

FRONT WASH ARCH

REAR WASH ARCH

XJ BRUSH MODULE

ROOF MOP

RUST INHIBITOR APPLICATION

CHEMICAL ARCH

BACKFLOW PREVENTER

INCOMING CITY WATER

TRAFFIC DIRECTION

WASH BAY DRAIN PIT

MIN. 6" DRAIN TO SEWER

PROVIDED BY:
- A INTERCLEAN
- C CUSTOMER
- G GENERAL CONTRACTOR
- P PLUMBING CONTRACTOR
- S CHEMICAL SUPPLIER

NOTE:
PIPES MUST BE SECURELY FASTENED AT MAX. 3' INTERVALS AND MAX 1' FROM ANY ELBOW.

R.	DATE	DESCRIPTION	BY	APPR
B	10/10/19	MOVED CHASSIS SPRAY BAR & TRENCH	TB	SIL
A	9/26/19	EQUIPMENT RELOCATED	TB	SIL

InterClean Equipment

DESIGN:	DRAWN:
SIMON	TB
CHECK:	APPR:
SIL	SIL
SCALE: NO SCALE	

GPMTD - 2019, PEORIA, IL
XJ404 FRESH WATER VEHICLE WASH SYSTEM
PLUMBING SCHEMATIC

DATE: 09/11/2019
PART NO: #LYI9-074-05
WEIGHT:

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1S 2S 3S 4S 5S 6S 7S PHOTO EYE SENSOR, SOURCE, 24 VDC
1R 2R 3R 4R 5R 6R 7R PHOTO EYE SENSOR, RECEIVER, 24 VDC

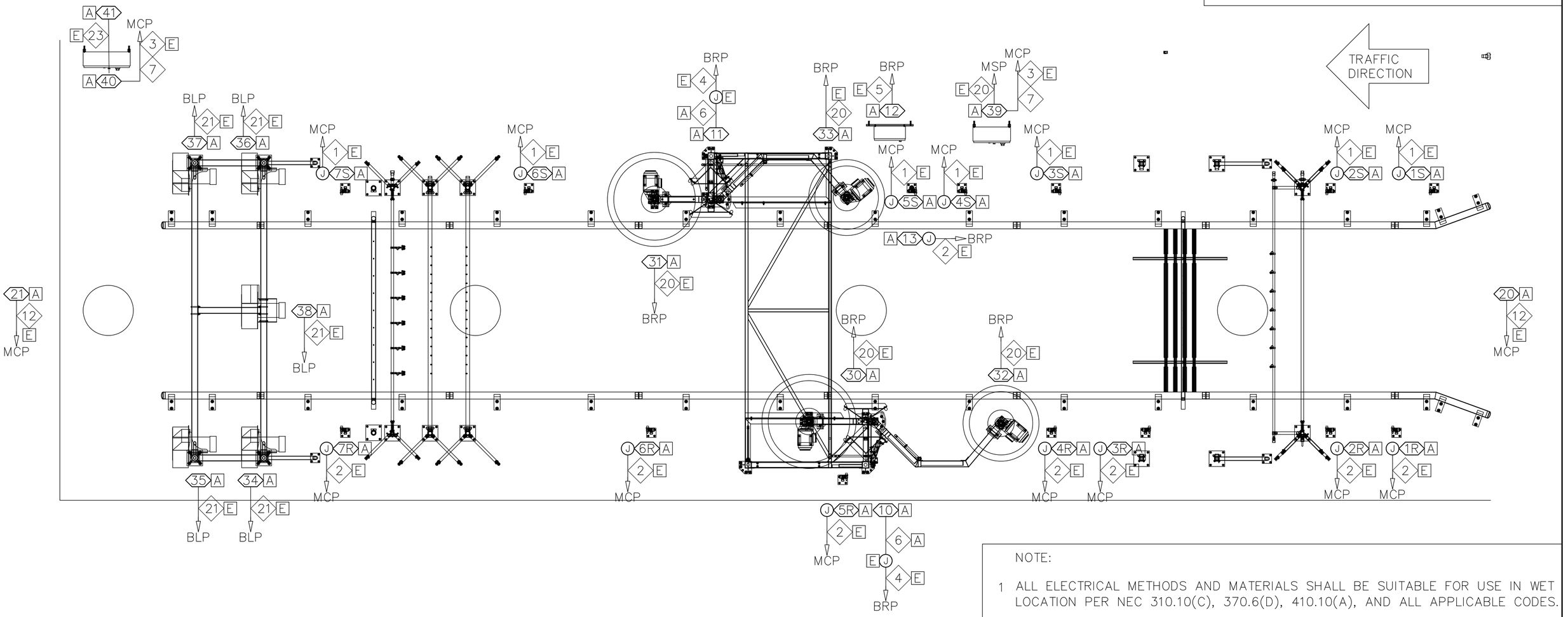
10 (3) PROXIMITY SENSORS, FOR LEFT BRUSH WRAP, 24 VDC
11 (3) PROXIMITY SENSORS, FOR RIGHT BRUSH WRAP, 24 VDC
12 PNEUMATIC PANEL, FOR BRUSH MODULE, 6 VALVES + PRESSURE SENSOR, 24 VDC
13 LIGHT/HORN, FOR OVERSPEED ALARM, 24 VDC

20 TRAFFIC LIGHT, GREEN/RED, AT ENTRANCE, 120 VAC
21 TRAFFIC LIGHT, GREEN/AMBER/RED, AT EXIT, 120 VAC

30 31 32 33 MOTOR, BRUSH ARCH, 2 HP, 460 VAC
34 35 36 37 38 MOTOR, BLOWER ARCH, 10 HP, 460 VAC
39 BRUSH CONTROL PANEL (BRP), 460 VAC, FLA 16
40 BLOWER CONTROL PANEL (BLP), 460 VAC, FLA 72
41 FEEDER & DISCONNECT FOR BLOWER CONTROL PANEL (BLP), 460 VAC

1 2–#16, 24 VDC, 1/2" CONDUIT
2 3–#16, 24 VDC, 1/2" CONDUIT
3 4–#16, 24 VDC, 1/2" CONDUIT
4 6–#16, 24 VDC, 1/2" CONDUIT
5 10–#16, 24 VDC, 3/4" CONDUIT
6 FLEXIBLE CORD, COMES W/SENSOR
7 1–ETHERNET CATEGORY 5E CABLE W/RJ–45 CONNECTORS, 1/2" CONDUIT
10 FLEXIBLE CORD WITH PLUG, COMES W/EQUIPMENT
11 2–#14, 1–#14 GND, 120 VAC, 1/2" CONDUIT
12 4–#14, 120 VAC, 1/2" CONDUIT
13 2–#12, 1–#12 GND, 120 VAC, 1/2" CONDUIT
20 3–#12, 1–#12 GND, 460 VAC, 1/2" CONDUIT
21 3–#10, 1–#10 GND, 460 VAC, 3/4" CONDUIT
22 3–#6, 1–#8 GND, 460 VAC, 1" CONDUIT
23 3–#4, 1–#8 GND, 460 VAC, 1" CONDUIT

NOTE:
– PRELIMINARY DRAWING, FOR REFERENCE ONLY.
– NOT INTENDED FOR MANUFACTURING OR INSTALLATION.
– SUBMITTED CONFIDENTIALLY FOR CUSTOMER REVIEW ONLY.



LEGEND:
DEVICE
RECEPTACLE, 120 VAC
JUNCTION BOX
BRANCH CIRCUIT/FEEDER
MCP CONNECTED TO MAIN CONTROL PANEL
BRP CONNECTED TO BRUSH CONTROL PANEL
BLP CONNECTED TO BLOWER CONTROL PANEL
MSP CONNECTED TO MOTOR STARTER PANEL

PROVIDED BY:
A INTERCLEAN
C CUSTOMER
E ELECTRICAL CONTRACTOR
G GENERAL CONTRACTOR

NOTE:
1 ALL ELECTRICAL METHODS AND MATERIALS SHALL BE SUITABLE FOR USE IN WET LOCATION PER NEC 310.10(C), 370.6(D), 410.10(A), AND ALL APPLICABLE CODES.
2 ALL CONDUCTORS SHALL BE THHN AND HAVE TEMPERATURE RATING OF 90 °C (194 F°).
3 CONDUITS MAY BE COMBINED TO MINIMIZE RUNS, BUT DO NOT COMBINE AC AND DC CIRCUITS.
4 BRANCH CIRCUITS ARE SIZED FOR 500' MAX. RUNS.
5 ELECTRICAL CONDUIT AND CONDUCTORS SIZES ARE MINIMUMS REQUIRED BY INTERCLEAN. SIZES MAY BE SUBJECT TO CHANGE PER CODES AND REGULATIONS.
6 MINIMUM SIZE FEEDER AMPACITY PER NEC 215.2(A)

R.	DATE	DESCRIPTION	BY	APPR
B	10/10/19	MOVED CHASSIS SPRAY BAR & TRENCH	TB	JR
A	9/26/19	EQUIPMENT RELOCATED	TB	JR

InterClean Equipment

DESIGN:	DRAWN:
JR	JR
CHECK:	APPR:
SIL	SIL
SCALE:	

GPMTD - 2019, PEORIA, IL
XJ404 FRESH WATER VEHICLE WASH SYSTEM
ELECTRICAL LAYOUT

DATE: 09/11/2019
PART NO: #LY19-074-06A
WEIGHT:

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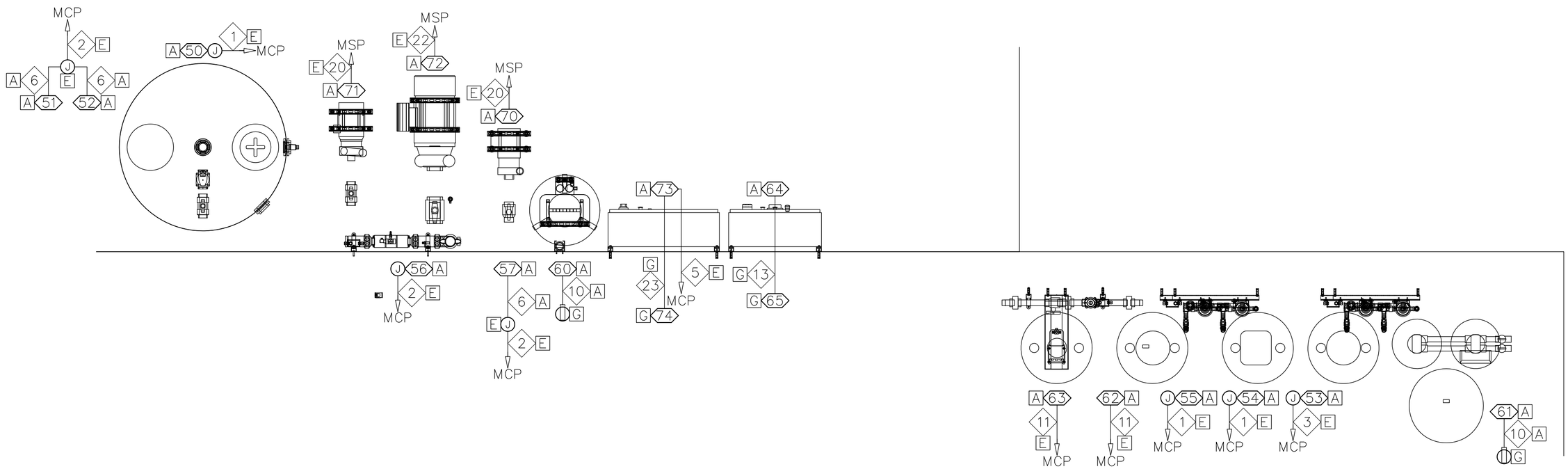
50 SOLENOID VALVE, FOR FRESH WATER TANK FILL, 24 VDC
51 HIGH LEVEL FLOAT, FOR FRESH WATER TANK, 24 VDC
52 LOW LEVEL FLOAT, FOR FRESH WATER TANK, 24 VDC
53 (3) SOLENOID VALVES, FOR CHEMICAL ARCH, 24 VDC
54 SOLENOID VALVE, FOR BRUSH ARCH, 24 VDC
55 SOLENOID VALVE, FOR RINSE ARCH, 24 VDC
56 (2) 2-WAY CO-AX VALVES, FOR FRONT/REAR ARCH, 24 VDC
57 PRESSURE SENSOR, FOR FWS-P3, 24 VDC

60 AIR COMPRESSOR, 6 GAL, 120 VAC
61 WATER SOFTENER, 120 VAC
62 METERING PUMP, FOR RINSE, 120 VAC
63 METERING PUMP, FOR RUST INHIBITOR, 120 VAC
64 MASTER CONTROL PANEL (MCP) W/HMI, 120 VAC, FLA 20
65 FEEDER & DISCONNECT FOR MASTER CONTROL PANEL (MCP), 120 VAC

70 PUMP, FRESH WATER, FWS-P1, 3 HP, 460 VAC
71 PUMP, WHEEL & CHASSIS, FWS-P2, 5 HP, 460 VAC
72 PUMP, HIGH PRESSURE, FWS-P3, 30 HP, 460 VAC
73 MOTOR STARTER PANEL (MSP), 460 VAC, FLA 69
74 FEEDER & DISCONNECT FOR MOTOR STARTER PANEL (MSP), 460 VAC

1 2-#16, 24 VDC, 1/2" CONDUIT
2 3-#16, 24 VDC, 1/2" CONDUIT
3 4-#16, 24 VDC, 1/2" CONDUIT
4 6-#16, 24 VDC, 1/2" CONDUIT
5 10-#16, 24 VDC, 3/4" CONDUIT
6 FLEXIBLE CORD, COMES W/SENSOR
7 1-ETHERNET CATEGORY 5E CABLE W/RJ-45 CONNECTORS, 1/2" CONDUIT
10 FLEXIBLE CORD WITH PLUG, COMES W/EQUIPMENT
11 2-#14, 1-#14 GND, 120 VAC, 1/2" CONDUIT
12 4-#14, 120 VAC, 1/2" CONDUIT
13 2-#12, 1-#12 GND, 120 VAC, 1/2" CONDUIT
20 3-#12, 1-#12 GND, 460 VAC, 1/2" CONDUIT
21 3-#10, 1-#10 GND, 460 VAC, 3/4" CONDUIT
22 3-#6, 1-#8 GND, 460 VAC, 1" CONDUIT
23 3-#4, 1-#8 GND, 460 VAC, 1" CONDUIT



LEGEND:
- DEVICE
- RECEPTACLE, 120 VAC
- JUNCTION BOX
- BRANCH CIRCUIT/FEEDER
- MCP — CONNECTED TO MAIN CONTROL PANEL
- BRP — CONNECTED TO BRUSH CONTROL PANEL
- BLP — CONNECTED TO BLOWER CONTROL PANEL
- MSP — CONNECTED TO MOTOR STARTER PANEL

PROVIDED BY:
- A INTERCLEAN
- C CUSTOMER
- E ELECTRICAL CONTRACTOR
- G GENERAL CONTRACTOR

NOTE:

1 ALL ELECTRICAL METHODS AND MATERIALS SHALL BE SUITABLE FOR USE IN WET LOCATION PER NEC 310.10(C), 370.6(D), 410.10(A), AND ALL APPLICABLE CODES.

2 ALL CONDUCTORS SHALL BE THHN AND HAVE TEMPERATURE RATING OF 90 °C (194 F°).

3 CONDUITS MAY BE COMBINED TO MINIMIZE RUNS, BUT DO NOT COMBINE AC AND DC CIRCUITS.

4 BRANCH CIRCUITS ARE SIZED FOR 500' MAX. RUNS.

5 ELECTRICAL CONDUIT AND CONDUCTORS SIZES ARE MINIMUMS REQUIRED BY INTERCLEAN. SIZES MAY BE SUBJECT TO CHANGE PER CODES AND REGULATIONS.

6 MINIMUM SIZE FEEDER AMPACITY PER NEC 215.2(A)

R.	DATE	DESCRIPTION	BY	APPR
B	10/10/19	MOVED CHASSIS SPRAY BAR & TRENCH	TB	JR
A	9/26/19	EQUIPMENT RELOCATED	TB	JR

InterClean Equipment

DESIGN:	DRAWN:
JR	JR
CHECK:	APPR:
SIL	SIL
SCALE:	

GPMTD - 2019, PEORIA, IL
XJ404 FRESH WATER VEHICLE WASH SYSTEM
EQUIPMENT ROOM LAYOUT

DATE: 09/11/2019
PART NO: #LY19-074-06B
WEIGHT:

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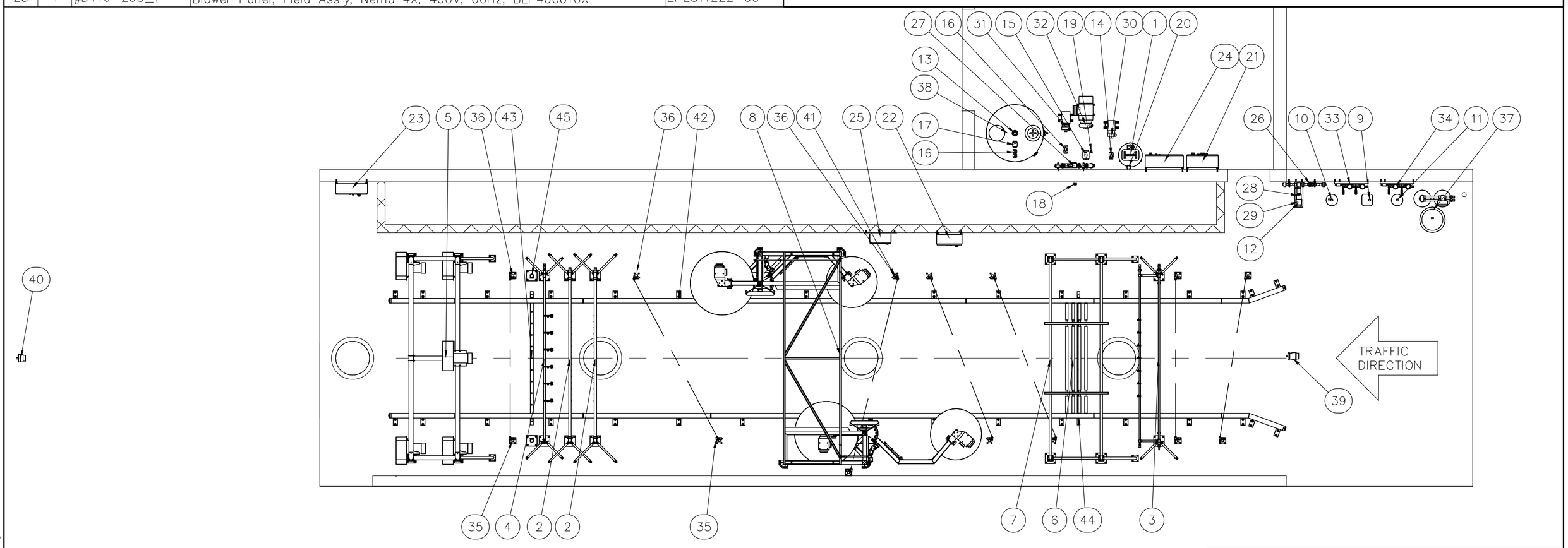
Parts List

ITEM	QTY	PRODUCTID	PRODUCTNAME	DRAWINGFILENAME	ITEM	QTY	PRODUCTID	PRODUCTNAME	DRAWINGFILENAME
1	1	#DY13-571_1	Air Compressor Ass'y, 6 Gal., 2.6CFM@90 psi, 120v	AC11511-00	24	1	#DY18-840_1	Motor Starter Panel, Field Ass'y, Nema 4, 460v/60Hz	EP2411123-00
2	2	#DY10-066_1	Arch Ass'y, Top Front/Top Rear, Galv., 15x0560, W=13', H=13'-5"	AR31262-03	25	1	#DY18-854_1	Pneumatic Panel Ass'y, for 6 Valves, XJ-Brush Frame Mnt	EP3212-06
3	1	#DY00-210_1	Arch Ass'y, Chem., S.S., for Truck Wash, Side & Rear	AR322252-00	26	1	#DY19-094_1	Wall Module Ass'y, Rinse, One Outlet, w/Chem. Inject Point	MW3121-01M
4	1	#DY00-218_1	Arch, Rinse, S.S., for Truck Wash, W=13', H=14'3"	AR322352-00	27	1	#DY04-065_1	Wall Module Ass'y, 3" Outlets, (2) 2-Way Co-Ax Valves	MW51312-00
5	1	#DY19-828_1	Premier Blower Ass'y, Galv. Frame, 5x10Hp, 460V, 60Hz, H=13'-9" CLE	BLc41252-00	28	1	#DY15-458_1	Frame Ass'y, For Metering Pump, 304SS Frame & Hardware	MWa4221-00
6	1	#DY15-289_1	Roof Mop, Field Assembly, 4 Mops, B-Line Mnt, , H=6'	BM451-07	29	1	PU13a111-00	Pump, Metering, Pulsatron-E+, 115v, 130W, #LPH5SA-PTC3-XXX	PU13a111-00
7	1	#DY15-290_1	Roof Mop Support Frame, Field Ass'y, 2" Galv.	BM4611-03	30	1	#DY17-230_1	Pump, Booster, Floor Mounted, 3Hp, 230/460V, Tefc, Weg Motor	PU22122321-01
8	1	#DY13-606_1	XJ Brush Mod., 2 Side & 2 Rear, H=11'4", 4x2HP, 575v/60Hz, Galv	BMg11223-02	31	1	#DY18-011_1	Pump, Booster, Floor Mounted, 5Hp, 230/460V, WEG Motor, Gould	PU22132331-00
9	1	CH21-5	Rinse Aid, InterShine Concentrate, 5 Gallon	CH21-5	32	1	#DY17-089_1	Pump, Booster, Floor Mnt, 30Hp, 460V, tefc(weg), Goulds	PU22192311-01
10	1	#DY15-090_1	Detergent, Hi-PH, 5 Gallon Container	CH6122-5	33	1	#DY12-164_1	Dosatron Pump (Aflas 1:20) Ass'y, 2 Pumps, Wall Mnt	PU23442-00
11	1	CH621-5	Lubricant, 5 Gallon, Interpower Brush Lube	CH621-5	34	1	#DY18-246_1	Dosatron Pump Ass'y, (Aflas 1:50-1:500) , 2 Pumps, Wall Mnt	PU23442-04
12	1	CHE1-4246-5	Cul-Mac Salt Block, 5gal	CHE1-4246-5	35	7	#DY08-433_1	Photo Eye Ass'y, Receiver, H=3', SS 304, Floor Mnt	SE3211211-00
13	1	CO161E-00	Fixed Air Gap, Inlet 2", Outlet Threaded 3", Cast Iron	CO161e-00	36	7	#DY08-342_1	Photo Eye Ass'y, Sender, H=6', SS 304, Floor Mnt	SE3212212-00
14	2	CO2111-2	Valve, Ball, 2", Compact, Socket, EPDM O-Ring Seals	CO2111-2	37	1	#DY15-119_1	Softener Ass'y, w/Salt & Test Kit, 1.5", Max.43 GPM	SO622-00
15	1	CO2111-3	Valve, Ball, 3", Socket, Fixed, EPDM O-Ring Seals	CO2111-3	38	1	#DY08-046_1	Tank, 925 Gal., Field Ass'y, 2 Outlets/2 Float Level Switches	TA2112-20
16	2	CO2112-200	Valve, Ball, PVC, Socket, Union, 2 " Spears	CO2112-200	39	1	#DY17-547_1	Traffic Light, Red/Green, Ceiling Mnt, Galv. Frame, 120-277VAC	TC331422-00
17	1	CO2221-32D	Valve, Solenoid,. 2", NPT x NPT, Brass, Slow Closing, 24VDC	CO2221-32D	40	1	#DY17-605_1	Traffic Light, Red/Amber/Green, Ceiling Mnt, Galv. Frame, 120-277VAC	TC331423-00
18	1	CO2231-050	Valve, Swing Check, 1/2" F.NPT, Bronze	CO2231-050	41	1	#DY18-501_1	Light/Alarm, Field Assembly, PhotoEye Mounted, For Overspeed	TC3353-00
19	1	#DY14-789_1	Pressure Sensor Assy, -14.5 to 362 psi, 1/4" npt, w/10m Cable	COb43424-00	42	1	#DY06-175_1	Tire Guides, CTW, Galv., L=71', OD=4.5", H= 5.5"	TGa141-70
20	1	#DY11-514_1	Air Filter Ass'y, 1/2", Max. 140 CFM, w/Mnt Bracket	COk3321-00	43	1	#DY10-103_1	Under Chassis Spray Bar Ass'y, 2" Pipe, w/9x2560 HU Nozzles	UC11132-00
21	1	#DY18-800_1	Master Control Panel, Standard, MCP120, Nema 4, 120v	EP1111113-00	44	1	#DY11-017_1	Under Chassis Spray Bar Ass'y, 1.5" SS304, w/9x4006 Noz.	UC11231-02
22	1	#DY18-711_1	Slave Brush Panel, Field Ass'y, Nema 4X, 460V, BRP46042X	EP2211213-00	45	2	#DY10-049_1	Wheel Washer Ass'y, Floor Mnt, w/4x0530-Nozzles	WH311221-03
23	1	#DY19-265_1	Blower Panel, Field Ass'y, Nema 4X, 460V, 60Hz, BLP460610X	EP2311222-00					



NOTE:
ITEMS SPECIFIED AND DETAILS INDICATED MAY BE SUBJECT TO SUPERSEDING PER LOCAL CODES AND REGULATIONS

R.	DATE	DESCRIPTION	BY	APPR
B	10/10/19	MOVED SPRAY BAR & TRENCH POSITION	TB	SIL
A	9/26/19	EQUIPMENT RELOCATED	TB	SIL

InterClean Equipment

DESIGN:	DRAWN:
SIMON	TB
CHECK:	APPR:
SIL	SIL
SCALE:	
3/16"=1'	

GPMTD - 2019, PEORIA, IL
XJ404 FRESH WATER VEHICLE WASH SYSTEM
EQUIPMENT LAYOUT

DATE: 09/11/2019
PART NO: #LY19-074-07
WEIGHT:

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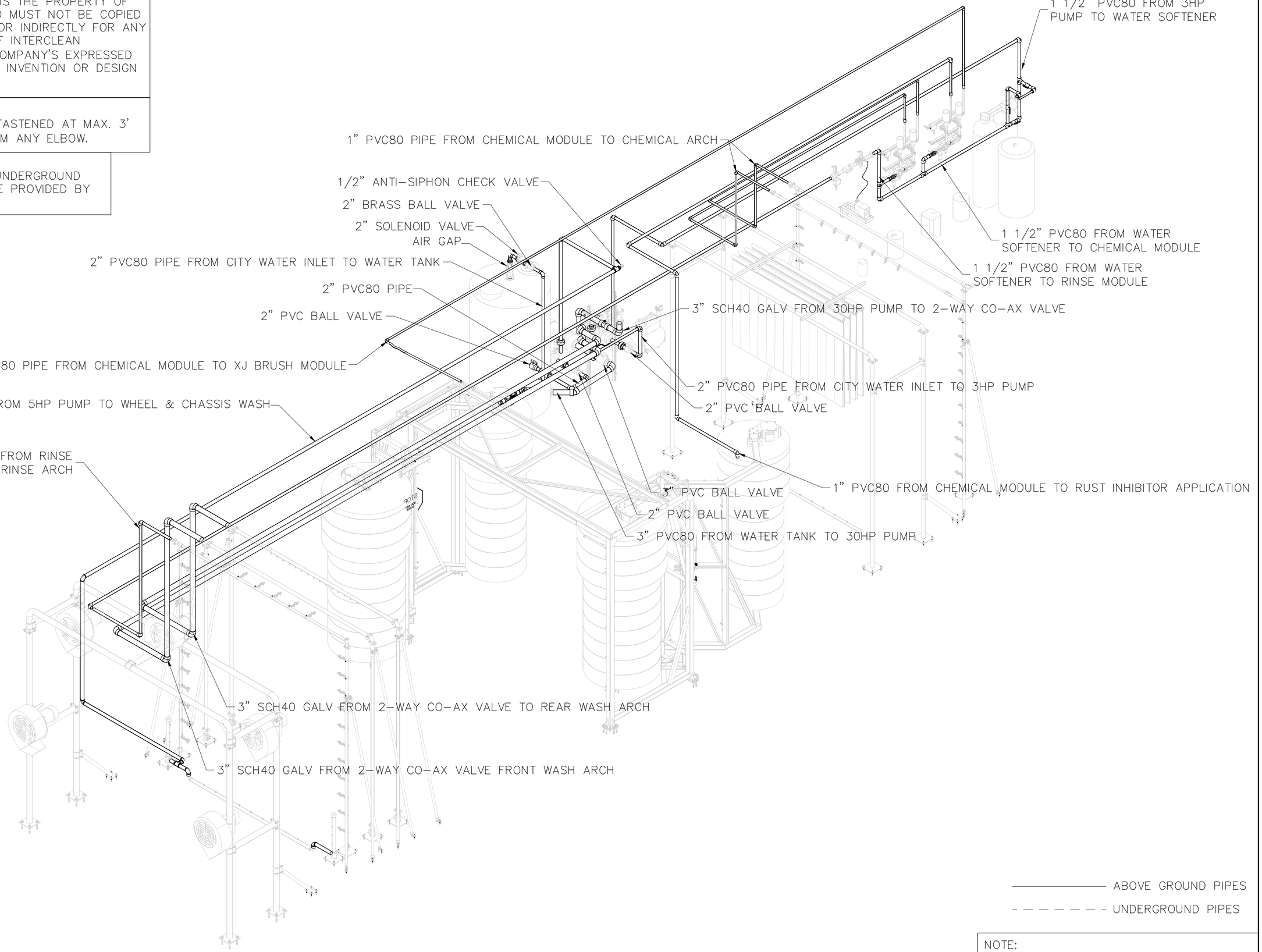
NOTE:
THIS DRAWING AND DESIGN IS THE PROPERTY OF INTERCLEAN EQUIPMENT AND MUST NOT BE COPIED OR USED EITHER DIRECTLY OR INDIRECTLY FOR ANY WORK OTHER THAN THAT OF INTERCLEAN EQUIPMENT WITHOUT SAID COMPANY'S EXPRESSED PERMISSION. ALL RIGHTS OF INVENTION OR DESIGN ARE RESERVED.

NOTE:
PIPES MUST BE SECURELY FASTENED AT MAX. 3' INTERVALS AND MAX 1' FROM ANY ELBOW.

NOTE:
ALL UNDERGROUND PIPES, UNDERGROUND CONDUITS AND SLEEVES ARE PROVIDED BY GENERAL CONTRACTOR



ABOVE GROUND PIPES

UNDERGROUND PIPES

NOTE:
PIPING SHOWN FOR REFERENCE ONLY, FINAL PIPE RUNS TO BE DECIDED BY PLUMBER, ACCORDING TO JOB SITE CONDITIONS

R.	DATE	DESCRIPTION	BY	APPR
B	10/10/19	MOVED SPRAY BAR & TRENCH POSITION	TB	SIL
A	9/26/19	EQUIPMENT RELOCATED	TB	SIL

InterClean Equipment

DESIGN:	DRAWN:
SIMON	TB
CHECK:	APPR:
SIL	SIL
SCALE: NO SCALE	

GPMTD - 2019, PEORIA, IL
XJ404 FRESH WATER VEHICLE WASH SYSTEM
PIPING 3D

DATE: 09/11/2019
PART NO: #LYI9-074-08
WEIGHT:

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NOTE:

VERIFY THE DEPTH OF THE ELEMENTS EMBEDDED IN CONCRETE TO ENSURE SAFE INSTALLATION OF ANCHOR BOLTS; REFER TO FAB DRAWINGS FOR ANCHOR BOLTS USED (FOR THE TIRE GUIDES, EQ MODULE, ETC.); REFER TO THE FOLLOWING TABLE FOR CLEARANCE BELLOW GRADE FOR ANCHORING.

STANDARD ANCHORING CLEARANCE REF. TABLE

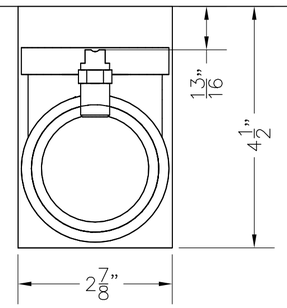
ANCHOR BOLT SIZE	DRILL HOLE DIA	DRILL HOLE MIN. DEPTH	DRILL HOLE MAX. DEPTH
3/8"	7/16"	1 3/4"	3 3/8"
1/2"	9/16"	2 1/4"	4 1/2"
3/4"	7/8"	3 3/8"	6 3/4"

NOTE:
THE WASH SYSTEM TEMPERATURE REQUIRED:
WASH BAY: MIN. 33°F
EQUIPMENT ROOM: MIN. 33°F, MAX. 90°F

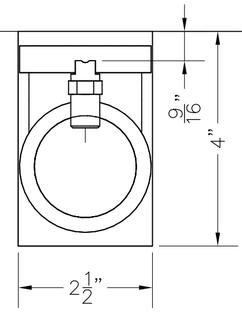
NOTE:
THE CONCRETE MUST CURE FOR 27 DAYS BEFORE INSTALLING TIRE GUIDES

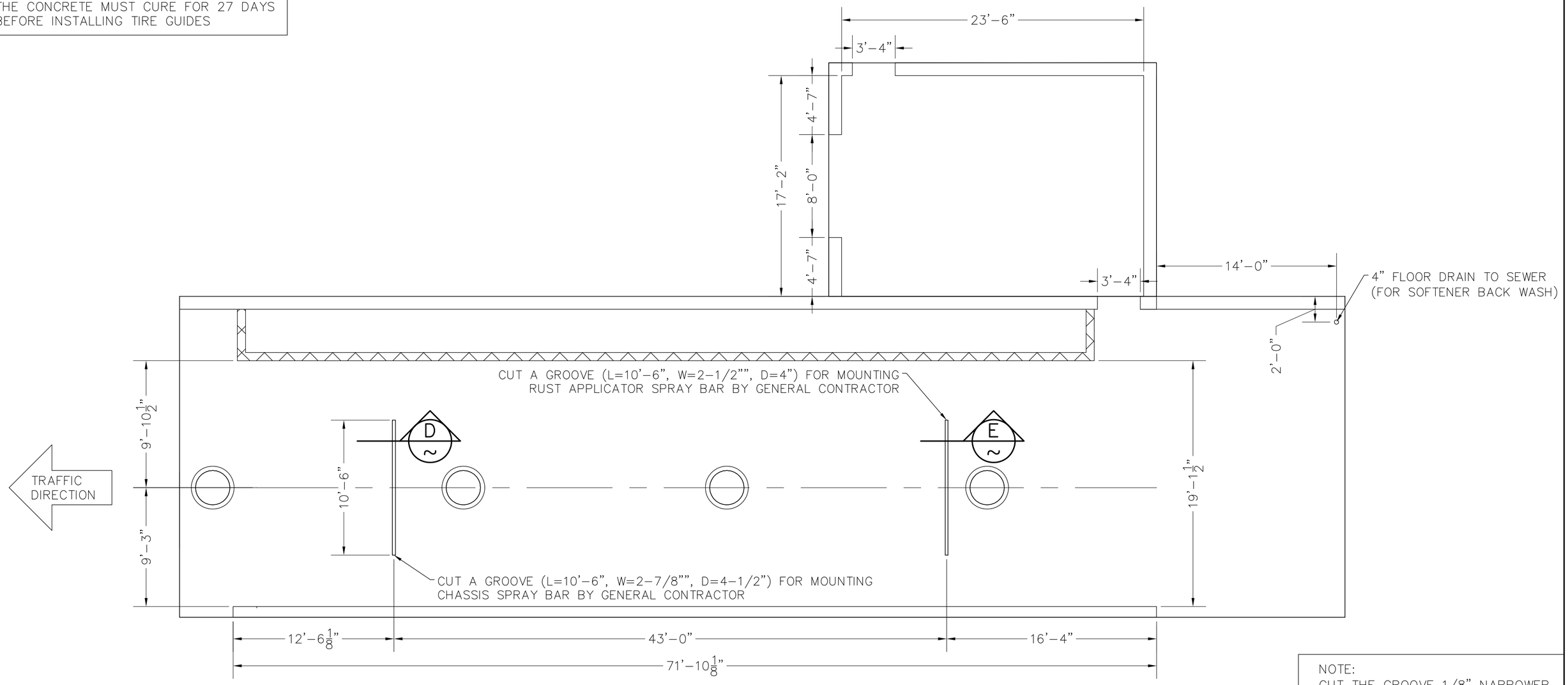
NOTE:
ALL WASH EQUIPMENT IS MOUNTED WITH ANCHOR BOLTS DRILLED INTO FLOOR. DESIGN MEASURES SHOULD BE MADE TO AVOID CONFLICTS WITH SLAB EMBEDDED BUILDING COMPONENTS (PIPES, SLAB HEAT, RE-BAR, ETC.), CONCRETE SURFACE PROTECTANTS AND ANCHOR BOLTS DRILLED INTO THE FLOOR.

SECTION D
SCALE 6"=1'



SECTION E
SCALE 6"=1'





NOTE:
CUT THE GROOVE 1/8" NARROWER THAN PIPE FITTINGS, FORCE THE SPRAY BAR INTO THE GROOVE

R.	DATE	DESCRIPTION	BY	APPR
B	10/10/19	MOVED SPRAY BAR & TRENCH POSITION	TB	SIL
A	9/26/19	EQUIPMENT RELOCATED	TB	SIL

InterClean Equipment

DESIGN:	DRAWN:
SIMON	TB
CHECK:	APPR:
SIL	SIL
SCALE: 3/16"=1'	

GPMTD - 2019, PEORIA, IL
XJ404 FRESH WATER VEHICLE WASH SYSTEM
CONCRETE LAYOUT

DATE: 09/11/2019
PART NO: #LY19-074-09
WEIGHT:

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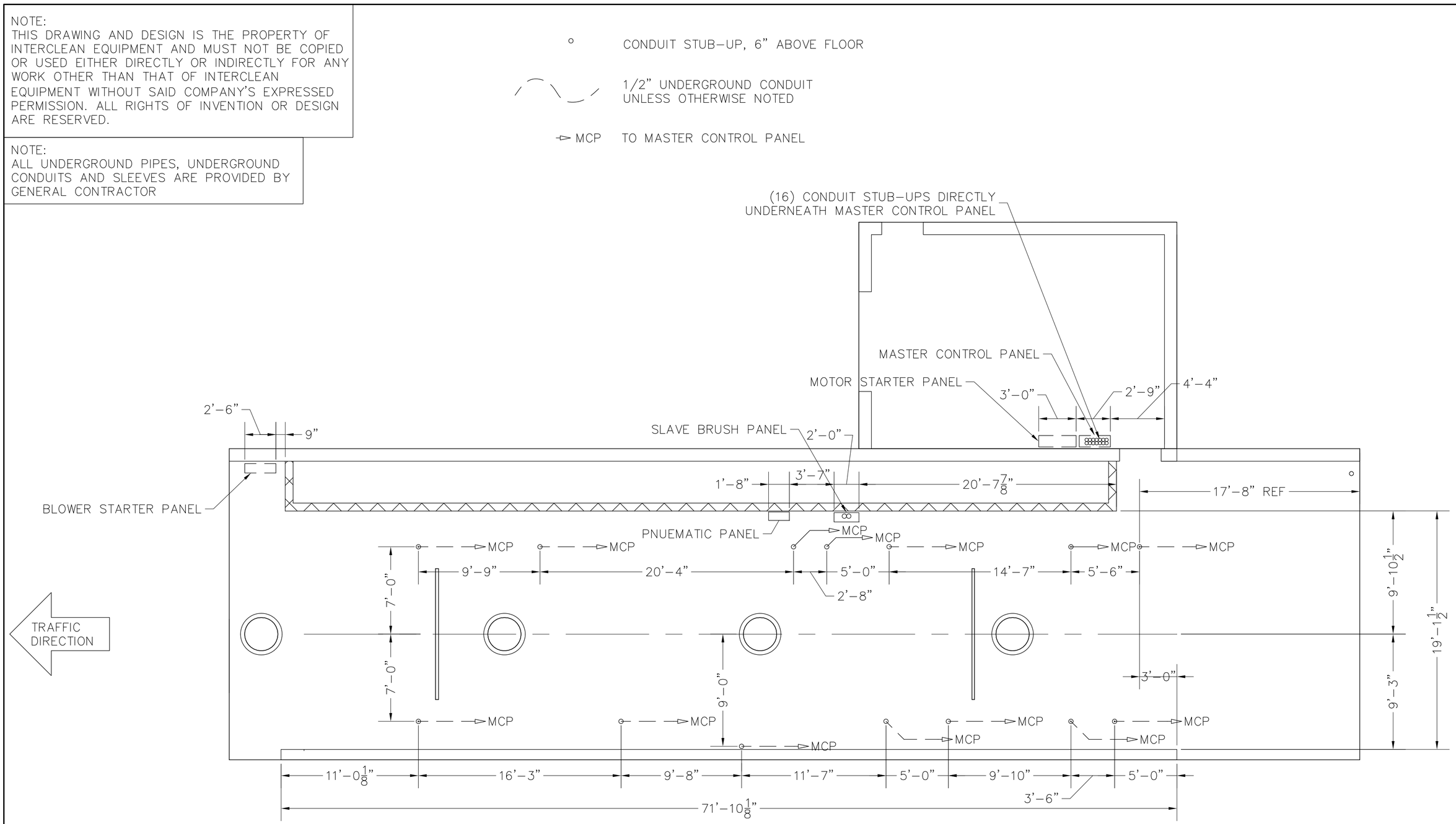
NOTE:
ALL UNDERGROUND PIPES, UNDERGROUND CONDUITS AND SLEEVES ARE PROVIDED BY GENERAL CONTRACTOR



R.	DATE	DESCRIPTION	BY	APPR
B	10/10/19	MOVED SPRAY BAR & TRENCH POSITION	TB	SIL
A	9/26/19	EQUIPMENT RELOCATED	TB	SIL

InterClean Equipment

DESIGN:	DRAWN:
SIMON	TB
CHECK:	APPR:
JR	SIL
SCALE: 3/16"=1'	

GPMTD - 2019, PEORIA, IL
XJ404 FRESH WATER VEHICLE WASH SYSTEM
UNDERGROUND CONDUITS

DATE: 09/11/2019
PART NO: #LY19-074-10
WEIGHT:

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