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AUGUST 28, 2024

CONTRACT NO. 1799

SOLIDS THICKENING AND DEWATERING IMPROVEMENTS

ADDENDUM NO. 2

All bidders bidding **Contract No. 1799** shall read and take note of this **Addendum No. 2.** The Procurement Documents for **Contract No. 1799 SOLIDS THICKENING AND DEWATERING IMPROVEMENTS** are hereby revised and/or clarified as stated below.

Acknowledgement of Contract No. 1799 Addendum No. 2

The Acknowledgement attached to **Addendum No. 2** is to be signed and returned immediately via email to **Kathleen P. Uniatowski** at kathleen.uniatowski@alcosan.org and acknowledged with Bidder's Proposal.

Kimberly Kennedy

Kimberly Kennedy, P.E.

Director – Engineering and Construction

3300 Preble Avenue • Pittsburgh, PA 15233-1092 • ph: 412.766.4810
www.alcosan.org

ACKNOWLEDGEMENT OF

CONTRACT NO. 1799

SOLIDS THICKENING AND DEWATERING IMPROVEMENTS

ADDENDUM NUMBER 2

FIRM NAME: _____

SIGNATURE: _____

TITLE: _____

DATE: _____

AUGUST 28, 2024

CONTRACT NO. 1799

SOLIDS THICKENING AND DEWATERING IMPROVEMENTS

ADDENDUM NO. 2

ADDENDUM NO. 2

ALLEGHENY COUNTY SANITARY AUTHORITY
PITTSBURGH, PENNSYLVANIA

CONTRACT NO. 1799
SOLIDS THICKENING AND DEWATERING IMPROVEMENTS PROJECT

AUGUST 28, 2024

ATTENTION

NEW BID OPENING DATE

FRIDAY, OCTOBER 4, 2024

11:00 A.M.

NEW DEADLINE FOR QUESTIONS IS FRIDAY, SEPTEMBER 20, 2024

This Addendum No. 2 consists of 21 pages and the following attachments:

Attachment A – Section 23 09 23.14 "Flow Switches" – 8 ½" x 11" (4 pages)
Attachment B – Addendum No. 2 Drawings – 22" x 34" (4 pages)
Attachment C – Cable Schedule – Excel File

ATTENTION BIDDERS

The following additions to and modifications of the Contract Documents will be included in and become part of the Contract for the Allegheny County Sanitary Authority (ALCOSAN) –

Solids Thickening and Dewatering Improvements Project. Bidders are instructed to take the following into account in rendering any Bid for this work.

The Bidder is responsible for verifying that he/she has received and reviewed all of the pages of the Contract Documents as well as all of the pages and attachments of all addenda. The Bidder shall verify all pages with the table of contents in the Contract Documents and the first page of all Addenda. Receipt of this Addendum No. 2 must be noted on the Bid Form. These items modify the portions of the documents specifically noted; all other provisions of the Contract Documents shall remain in effect.

1. CHANGES TO THE BIDDING DOCUMENTS

1.1 In Article 2 "Information for Bidders," Para. 2.04, **DELETE** the bid opening date of "September 6, 2024" and **REPLACE** with "October 4, 2024."

2. CHANGES TO THE TECHNICAL SPECIFICATIONS

2.1 In Specification Section 01 11 00 "Summary of Work," **DELETE** Para. 1.1.B.12 and **REPLACE** with the following paragraphs after Para. 1.1.B.11.:

"12. Process Control System Supplier (PCSS). Work to be provided under Contract 1799E.

13. Applications Engineering System Supplier (AESS) [RoviSys].

14. Other Project Stakeholders."

2.2 In Specification Section 01 11 00 "Summary of Work," **ADD** the following paragraphs after Para. 1.2.A.1.r.:

"s. Installation of field-mounted instruments and flow measuring devices and non-equipment manufacturer-supplied instrumentation furnished by the PCSS under Contract 1799E.

t. Installation of all seal water assemblies and stations, including piping, valves, instrumentation, and steel support racks. Instrumentation shall be furnished by the PCSS under Contract 1799E.

u. Furnish manufacturer-supplied control panels for installation by the Electrical Contractor.

v. Provide control panels physically mounted to equipment."

2.3 In Specification Section 01 11 00 "Summary of Work," **ADD** the following paragraphs after Para. 1.2.A.2.a.18):

"19) The work of the Process Control System Supplier (PCSS)/System Integrator shall be provided under Contract 1799E. PCSS shall provide services as per Specification Sections 40 61 00 through 40 78 59.

20) Furnish and install electrical conduit and wiring for Contracts 1799G, H, and P.

21) Provide housekeeping pads and conduit hangers and supports associated with electrical equipment.

22) Provide all local control stations, ESTOP pushbutton stations, pump control panels, instrument panels, pneumatic valve control stations, and custom built/non-equipment manufacturer-supplied control panels shown on the Electrical and Instrumentation drawings, unless otherwise noted in the Contract Documents.

23) Furnish, wiring, and calibration of all field-mounted instruments and flow measuring devices, non-equipment manufacturer-supplied instrumentation, and field-mounted gas monitoring devices and associated horns and lights. PCSS shall furnish all instruments listed in the Instrument List included with Specification Section 40 70 00."

2.4 In Specification Section 01 11 00 "Summary of Work," **ADD** the following paragraphs after Para. 1.2.A.3.j.:

"k. Provide housekeeping pads and pipe hangers and supports associated with plumbing equipment.

l. Provide fire protection piping, hangers and supports, valves, backflow preventers, and sprinklers."

2.5 In Specification Section 01 11 00 "Summary of Work," **ADD** the following paragraphs after Para. 1.2.A.4.dd.:

"ee. Provide housekeeping pads and pipe hangers and supports associated with HVAC equipment.

ff. Provide insulation for HVAC systems.

gg. Provide automatic temperature controls for HVAC systems.

hh. Provide temporary heat as needed during construction."

2.6 In Specification Section 22 11 16 "Domestic Water Piping," **DELETE** Para. 3.1.C.1 in its entirety and **REPLACE** with following:

"1. Stainless Steel, Schedule 40 Type 316 pipe; pressure-seal-joint fittings; and pressure-sealed joints."

2.7 In Specification Section 22 13 16 "Sanitary Waste and Vent Piping," **DELETE** Para. 3.9.B.1 in its entirety and **REPLACE** with following:

"1. Hubless, Cast iron soil pipe and fittings, sealing rings and gasketed joints."

2.8 In Specification Section 22 13 16 "Sanitary Waste and Vent Piping," **DELETE** Para. 3.9.C in its entirety and **REPLACE** with "Not Used."

2.9 In Specification Section 22 13 16 "Sanitary Waste and Vent Piping," **DELETE** Para. 3.9.D.1 in its entirety and **REPLACE** with following:

"1. Hubless, Cast iron soil pipe and fittings, sealing rings and gasketed joints."

2.10 **ADD** Specification Section 23 09 23.14 "Flow Switches" from Attachment A to the Contract Documents. **UPDATE** the Table of Contents to include this Specification Section.

2.11 In Specification Section 26 29 23, "Variable Frequency Motor Controllers," **ADD** the following paragraph after Para. 2.2.A.6:

"7. Each VFD shall be in an enclosure which includes all required components. DRV corporation shall be employed by the contractor to provide the VFD package. VFD enclosure shall include front enclosure keypad operator hardwired to the VFD within the enclosure. The keypad shall be operable with the enclosure door closed. The front of the enclosure shall also have hardwired devices including selector switches, pilot lights, pushbuttons and speed potentiometer and as shown on the elementary diagrams."

2.12 In Specification Section 26 29 23, "Variable Frequency Motor Controllers," **DELETE** Para. 2.4.B. and **REPLACE** with the following:

"B. Provide the following VFD enclosure door hardwired control devices as a minimum."

2.13 In Specification Section 26 29 23, "Variable Frequency Motor Controllers," **ADD** the following after Para. 2.4.A.4:

"5. Manual STOP button."

2.14 In Specification Section 26 29 23, "Variable Frequency Motor Controllers," **DELETE** Para 2.4.C. in its entirety and **REPLACE** with the following:

"C. Panel-Mounted Operator Station: Manufacturer's standard front-accessible, sealed keypad and plain-English-language digital display; allows complete programming, program copying, operating, monitoring, and diagnostic capability.

1. Security Access: Provide electronic security access to controls through identification and password with at least three levels of access: View only; view and operate; and view, operate, and service. Passwords shall be able to be disabled.

2. Control Authority: Supports at least four conditions: Off, local manual control at VFC, local automatic control at VFC, and automatic control through a remote source."

2.15 In Specification Section 26 29 23, "Variable Frequency Motor Controllers," **DELETE** Para. 2.8.A.1.b.1) and 2) and **REPLACE** with the following:

"1) Red – Run.

2) Green – Off."

2.16 In Specification Section 40 05 93.23, "Low-Voltage Motor Requirements for Process Equipment," **DELETE** Para. 2.3.F.4 in its entirety and **REPLACE** with the following paragraph:

"4. Shaft Currents: Provide mitigation on inverter-duty motors in accordance with Paragraph 2.4.C and D of this specification section."

2.17 In Specification Section 41 12 13.36, "Screw Bulk Material Conveyors," **ADD** the following paragraph at the end of Para. 2.4.C.3:

"a. For automatically operated slide gates, provide single coil solenoid valves on 4-way valve assemblies that energize OPEN and de-energize CLOSED. For manually operated slide gates, provide single coil solenoid valves on 4-way valve assemblies that energize CLOSED and de-energize OPEN."

2.18 In Specification Section 43 23 13.19, Self-Priming Centrifuge Pumps," **ADD** the following paragraph after Para. 2.5.A.4:

"5. Features and Accessories:

a. Space heater."

2.19 In Specification Section 43 23 35, "Recessed Impeller Pumps," **ADD** the following paragraphs after Para. 2.4.A.6.a:

"b. Space heaters.

c. Shaft current mitigation and grounding rings."

2.20 In Specification Section 43 23 37, "Screw Impeller Pumps," **ADD** the following paragraphs after Para. 2.4.A.5.a:

"b. Space heaters.

c. Shaft current mitigation and grounding rings."

2.21 In Specification Section 43 23 57, "Progressing Cavity Pumps," **ADD** the following paragraph after Para. 2.3 J.8:

"9. Provide shaft current mitigation and grounding rings."

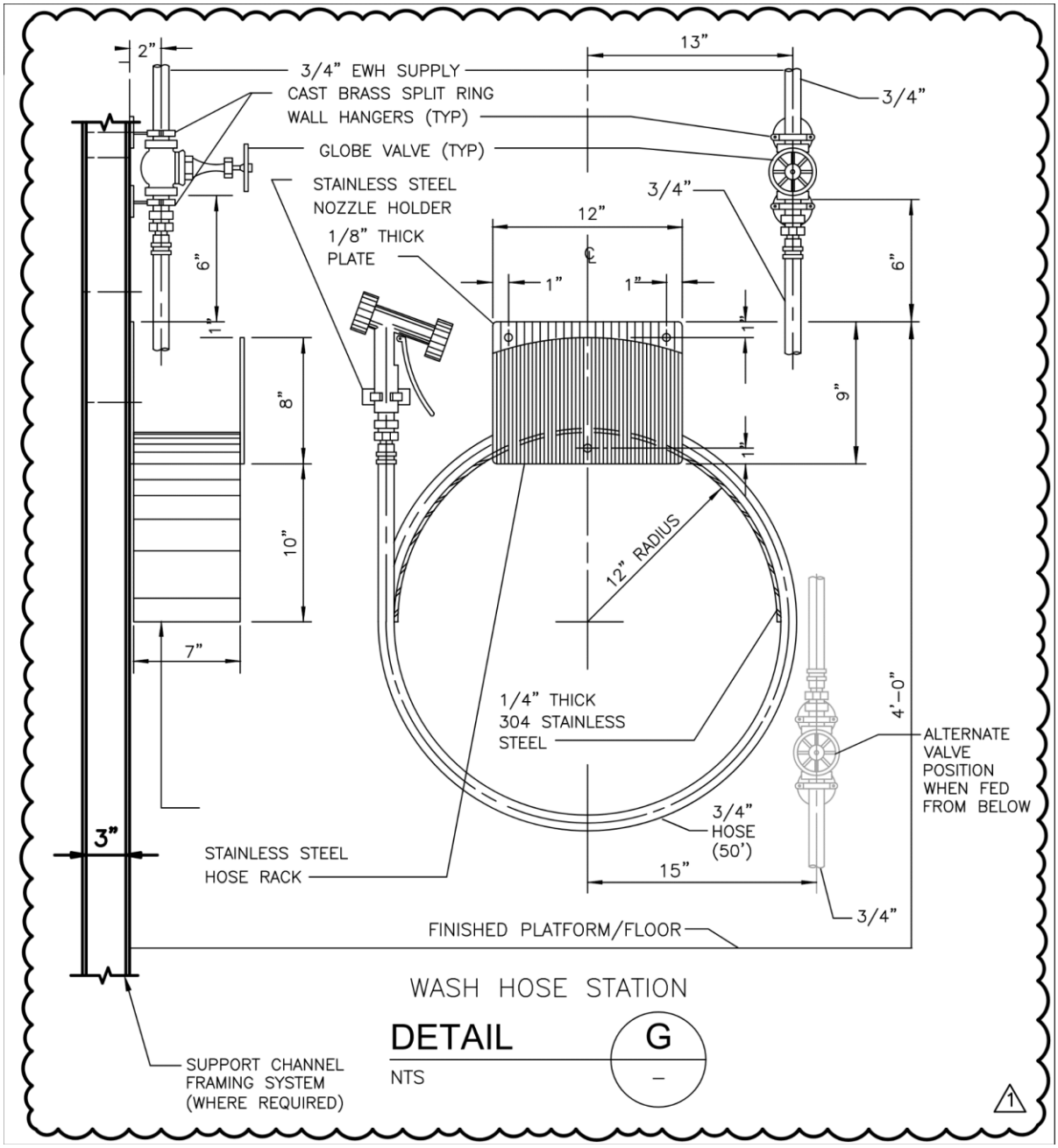
2.22 In Specification Section 43 23 58, "Rotary Lobe Pumps," **ADD** the following paragraphs after Para. 2.4.A.5.a:

"b. Space heaters.

c. Shaft current mitigation and grounding rings."

3. CHANGES TO THE DRAWINGS

3.1 On Sheet MD-002, **ADD** the following DETAIL G to the sheet after DETAIL F:

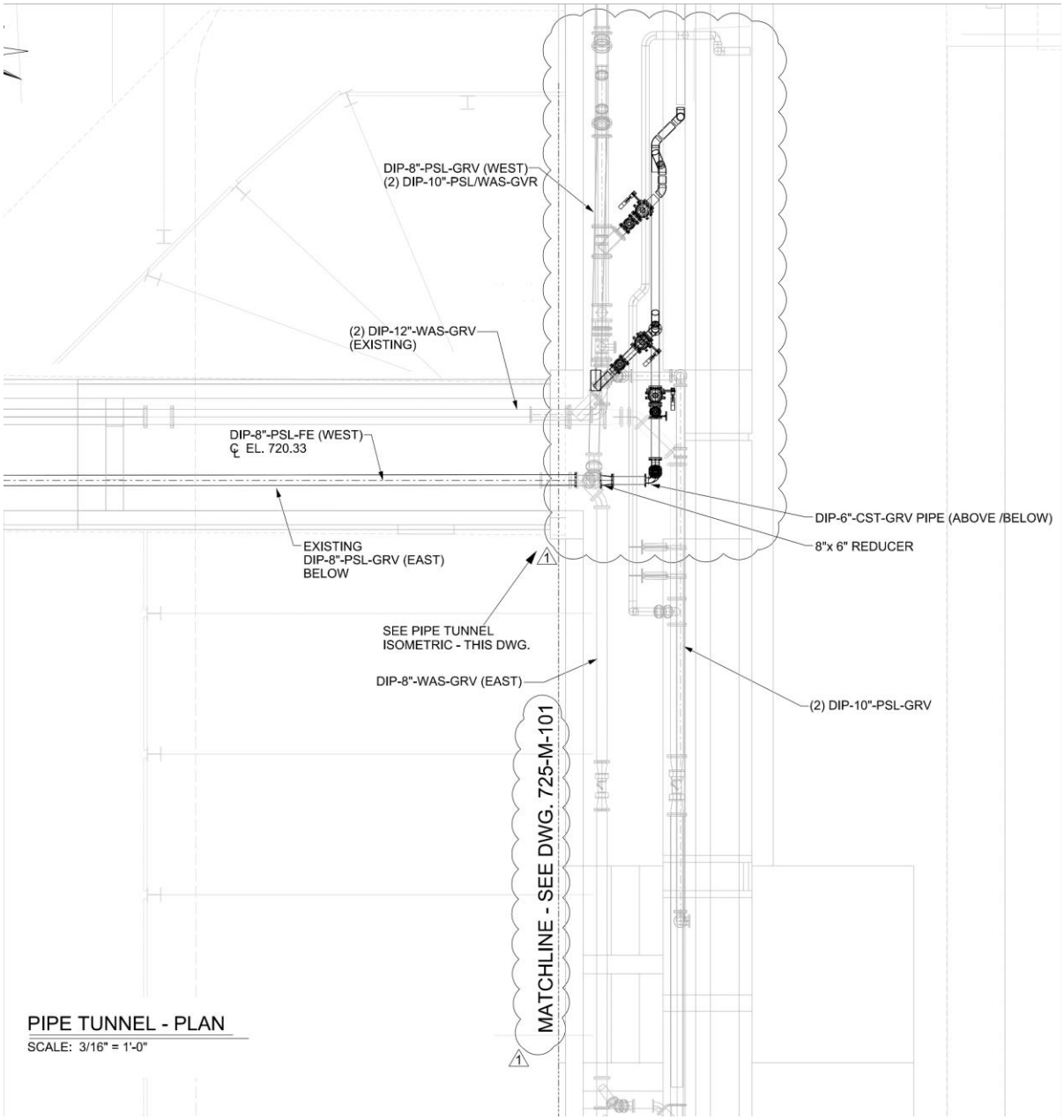


3.2 On Sheet 400-M-006, **DELETE** "400-M-033" in four places on the EFLLUENT FLUSH WATER connections to each of the four Thickened Sludge Pumps and **REPLACE** with "400-M-031."

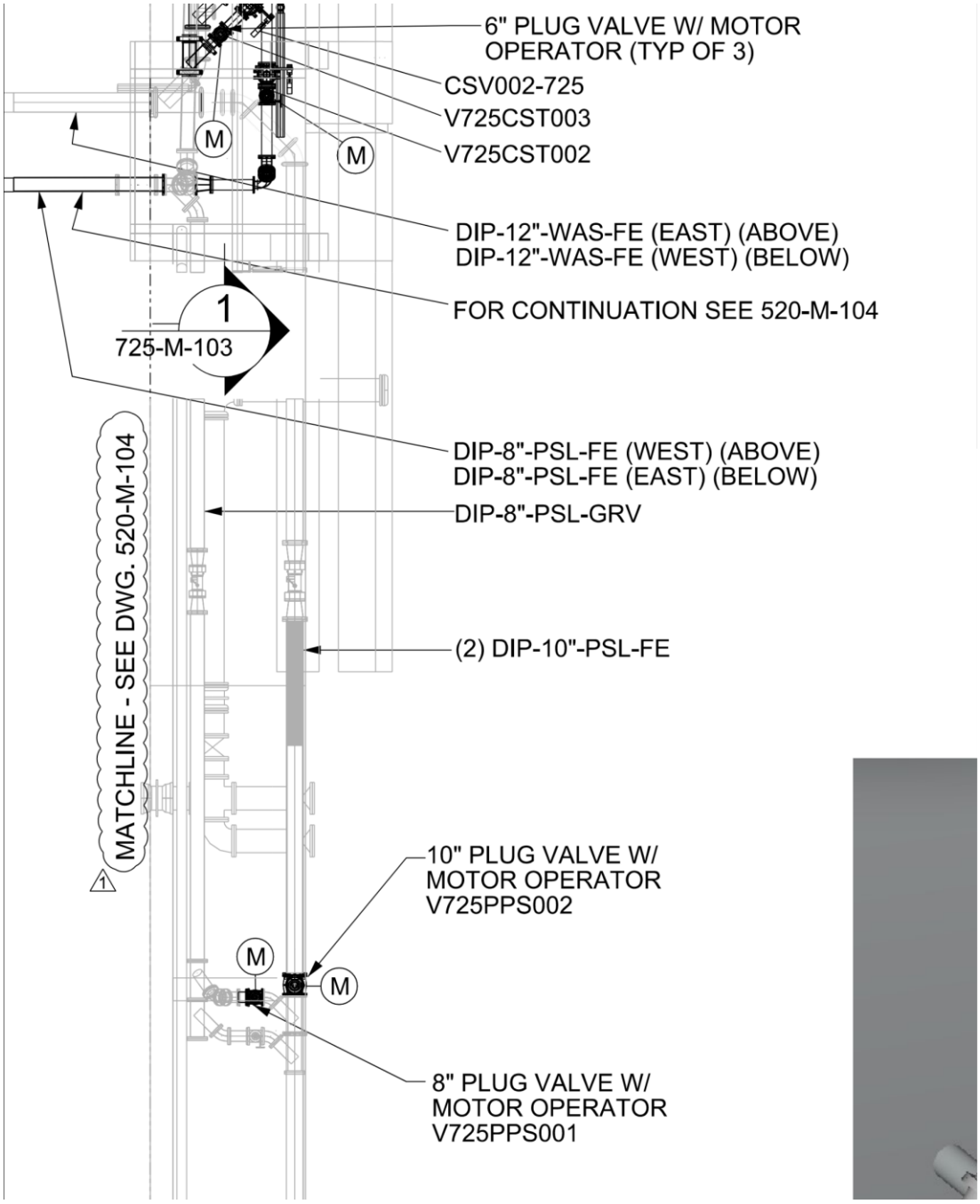
3.3 On Sheet 400-M-007, **DELETE** "400-M-033" in two places on the EFLLUENT FLUSH WATER connections to each of the two future Thickened Sludge Pumps and **REPLACE** with "400-M-031."

3.4 On Sheet 400-M-031, **DELETE** "CUP" on the four wash hose stations (one per Thickened Sludge Pump) and **REPLACE** with "GST" and **ADD** "1-1/2" QUICK CONNECT" with symbol to the left of each BLV.

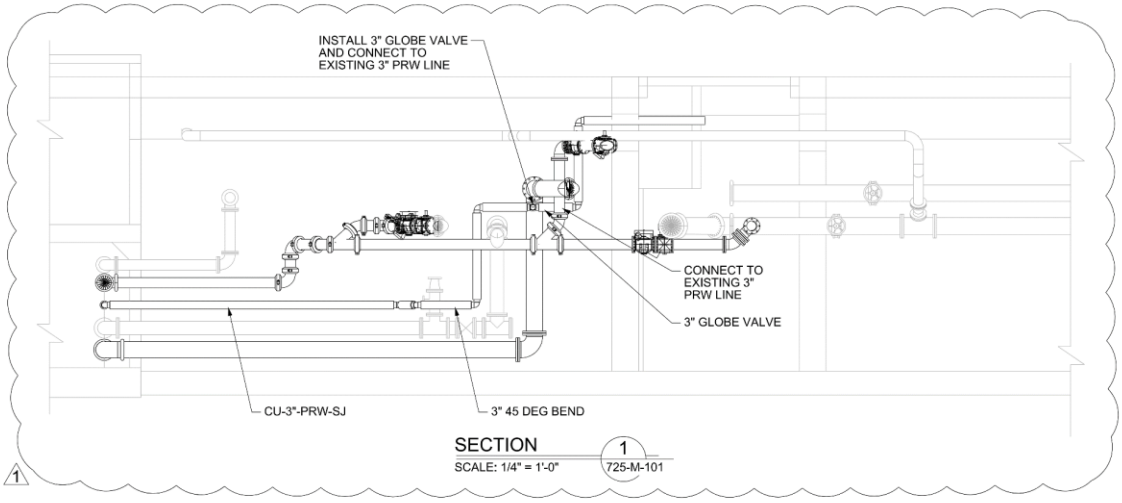
3.5 On Sheet 520-M-104, **UPDATE** per modifications shown below:



3.6 On Sheet 725-M-101, **UPDATE** per modifications shown below:



3.7 On Sheet 725-M-103, **UPDATE** per modifications shown below:



3.8 On Sheet 400-M-122, **DELETE** "1-1/2" WASH HOSE STATION (TYP 2)" with symbol "7 / MD-002" associated with the 1.5" connection to the 4" EWH tee and **REPLACE** with "1-1/2 WASH HOSE STATION W/ 1-1/2" GST PIPE, BLV & QUICK CONNECT (TYP of 4) (SIM TO DETAIL F/MD-002)."

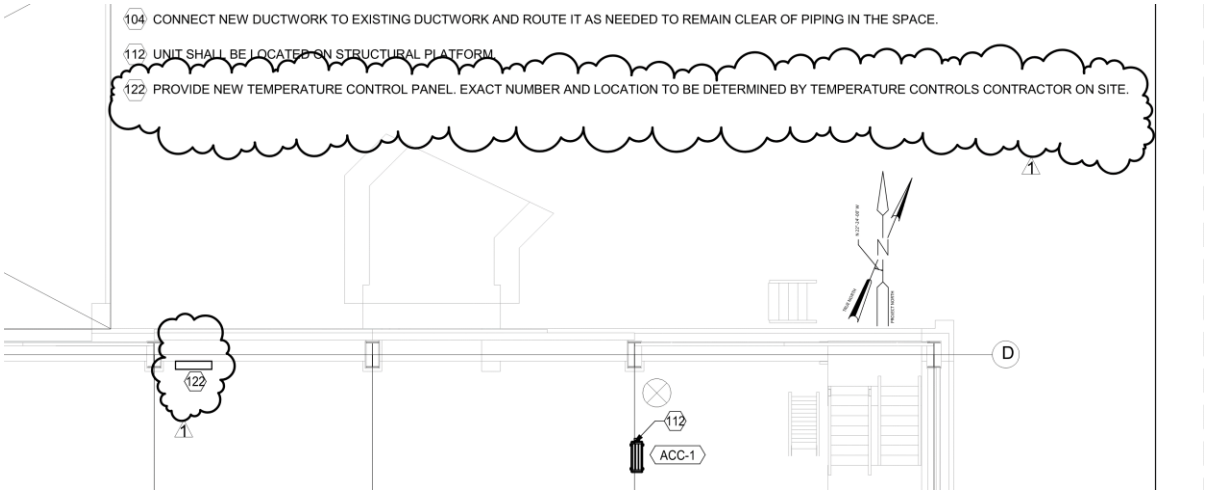
3.9 On Sheet 400-M-132, **ADD** "SEE DETAIL G ON SHEET MD-002" after "3/4" WASH HOSE STATION (TYP OF 3)."

3.10 On Sheet 400-M-133, Section 2, **DELETE** the note "30"x30 TEE" and **REPLACE** with "30"x24" TEE."

3.11 On Sheet 000-H-001, **ADD** note 20 below note 19:

"20. AIRFLOW MONITORING SENSORS (FLOW SWITCHES) SHALL BE PROVIDED AS PER SPECIFICATION SECTION 230923.14. FLOW SWITCHES SHALL BE 24 VDC AND POWERED FROM THE TEMPERATURE CONTROLS PANEL. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING 24V TRANSFORMER AND PROVIDING ANY WIRING DOWNSTREAM OF 24V TRANSFORMER. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING WIRING UPSTREAM OF 24V TRANSFORMER."

3.12 On Sheet 400-H-101, **UPDATE** per modifications shown below:



3.13 **REMOVE** and **REPLACE** Sheet 400-H-102 from Attachment B.

3.14 On Sheet 701-ET-001, show conduit P-060620 as bold to represent new work.

3.15 On Sheets 701-ET-001, 702-ET-002, 711-ET-001, 712-ET-001, 821-ET-001, 821-ET-002, 831-ET-001, and 831-ET-002, **REMOVE** note 3 and **REPLACE** with the following:

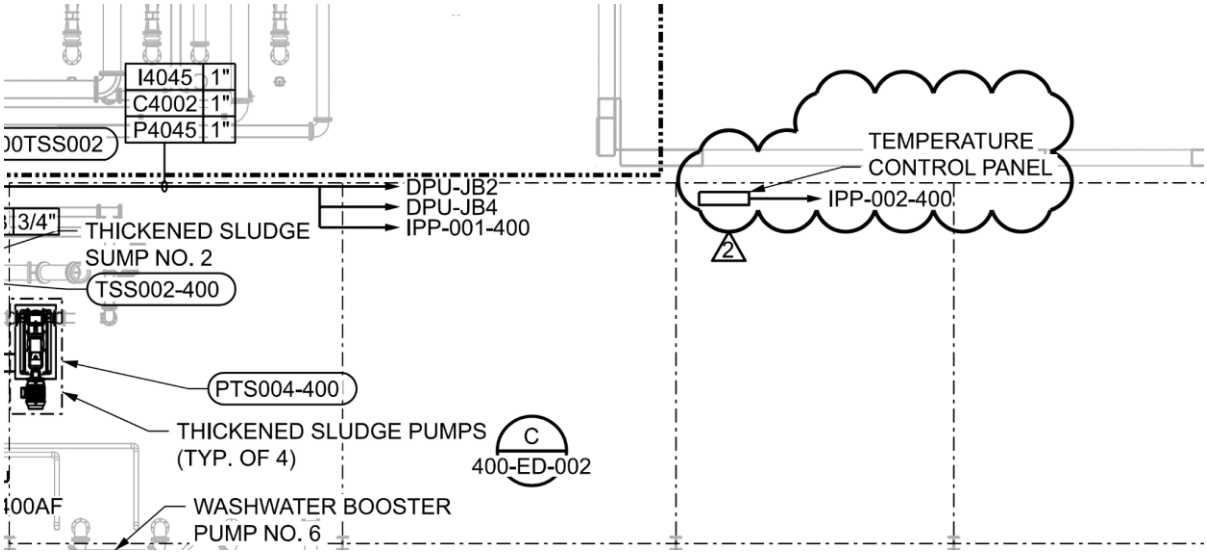
"3. ALL NEW CONDUIT SHALL BE RIGID ALUMINUM."

3.16 On Sheets 400-ESL-010 and 400-ESL-011 **ADD** conduit tags for Harmonic Filter 1-4 "P-HMF001-400," "P-HMF002-400," "P-HMF003-400," and "P-HMF004-400." Each conduit shall represent 3-4"C., 3#500kCMIL, 1#2/0G.

3.17 On Sheets 400-ESL-014 and 400-ESL-015 **UPDATE** horsepower ratings on Dewatering Feed Pumps 1-9 (DFP001-400 through DFP009-400) from 20hp to 25hp and their associated breakers to new 60A breakers.

3.18 On Sheet 400-EM-004, **ADD** equipment tag "DFP008-400" below "DFP007-400."

3.19 On Sheet 400-ET-120, **UPDATE** per the modifications shown below:



3.20 **REMOVE** and **REPLACE** Sheet 400-ET-121 from Attachment B.

3.21 **REMOVE** and **REPLACE** Sheet 400-ET-124 from Attachment B.

3.22 **REMOVE** and **REPLACE** Sheet 400-ED-102 from Attachment B.

3.23 On Sheet 000-E-004 **UPDATE** conduits "P-DFP001-400," "P-DFP001-400AF," and "P-DFP002-400AF" from #6 wire to #4 wire.

3.24 On Sheet 000-E-005 **UPDATE** conduits "P-DFP002-400," "P-DFP003-400," "P-DFP003-400AF," "P-DFP004-400," "P-DFP004-400AF," "P-DFP005-400," "P-DFP005-400AF," "P-DFP006-400," "P-DFP006-400AF," "P-DFP007-400," "P-DFP007-400AF," "P-DFP008-400," and "P-DFP008-400AF," from #6 wire to #4 wire.

3.25 On Sheet 400-I-037, **DELETE** "FSL" flow switches from the Odor Control Fan Room, Mechanical Room, and Dewatering Building Basement.

3.26 On Sheet 400-I-038, **DELETE** "FSL" flow switches from the Dewatering Feed Tank Second Floor Gallery and Thickening Feed Tank Mixer Room. Also on this sheet, **ADD** "FSL" flow switch to the Dewatering Building Mezzanine to be installed and wired to a temperature control panel. Additionally, **ADD** "FSL" flow switch to the Dewatering Building Mezzanine to be installed and wired to a temperature control panel and connected to the Dewatering Building Mezzanine Gas Master Panel. Finally, **ADD** "FSL" flow switch to the Thickened Sludge Sump Area to be installed and wired to a temperature control panel and connected to the Dewatering Building Mezzanine Gas Master Panel.

4. QUESTIONS AND ANSWERS

Q1: In reference to plan sheets 400-I-037 and 400-I-038, is there a specification for the FSL switches shown? Please provide by addendum.
A1: See Changes to the Drawings in this Addendum No. 2. Specification Section 23 09 23.14 has been issued as part of this Addendum No. 2 to provide further information.

Q2: In reference to plan sheet 400-M-122, notes 1.5" wash hose station [Typ. 2] per Det. 7/MD-002, but there is no Detail 7 on MD-002. Please provide 1.5" wash hose station detail by addendum.
A2: See Changes to the Drawings in this Addendum No. 2.

Q3: In reference to plan sheet 400-M-123, calls out 1 - 30x24 VIC TEE in DRE line, but 400-M-133 notes the same fitting as 30x30 VIC TEE. Please clarify which size is correct, 30x24 or 30x30, by addendum.
A3: See Changes to the Drawings in this Addendum No. 2.

Q4: In reference to plan sheet 520-M-104, there is missing & contradictory info on this dwg. Perhaps the line weights are incorrect and most of the pipe shown as bold is actually existing piping that remains unchanged. A few sections or elevation views are needed in order to complete take-off here. See attached pic w/ several highlighted questions.
A4: See Changes to the Drawings in this Addendum No. 2.

Q5: In reference to section 1 on plan sheet 725-M-103, the DIP.GL-06"-CST-GRV doesn't seem to match the "Green" DIP.GL-06"-CST-GRV shown on ISOs at DETAILs A & C on 725-M-101. Please clarify which SEC or DET is correct for components needed to complete the new DIP.GL-06"-CST-GRV lines by addendum.
A5: See Changes to the Drawings in this Addendum No. 2.

Q6: Drawing 520-M-104 shows the piping going to the west tunnel. I see on drawing 725-M-101 marks the valves but the piping at the intersections very confusing. The iso on 520-M-104 does not help. Can you please clarify?
A6: See Changes to the Drawings in this Addendum No. 2.

Q7: The plumbing spec calls for domestic water to be Sch 40 stainless with press fit joints. Are we to use 304 or 316?
A7: See Changes to the Technical Specifications in this Addendum No. 2.

Q8: The plumbing spec calls for sanitary/vent piping to be stainless steel. Please provide the type 304 or 316 as well as the wall thickness. Can cast iron be

used in lieu of stainless on the sanitary/vent piping?

A8: See Changes to the Technical Specifications in this Addendum No. 2.

Q9: Who hires the PCSS listed in Spec 40 61 00, the General Contractor, or the Electrical Contractor?

A9: **CHANGE** the last sentence of Addendum No. 1, A7 response to "The work of the PCSS shall be furnished and installed under the scope of Contract 1799E."

Note: Some of the following questions contain multiple requests. Answers are provided to multiple requests in the same order as the questions.

Q10: Drawing 000-ID-003.
Who provides these panels?
Is this the ALCOSAN furnished equipment listed in Spec 01 11 00, Paragraph 1.2, A, 1, c or is this the Electrician furnished equipment listing in the same spec, Paragraph 1.2, A, 2, f, 3?
If this is NOT the panels being furnished by the Electrician in the paragraph listed above, what do those panels look like, as I cannot find a contract drawing for these panels?

A10: The Process Control System Supplier.
No, the panels shown on 000-ID-003 do not correspond to either of the paragraphs referenced.
The local control station is a single E-Stop pushbutton station and is captured on the wiring schematic on 400-EM-004.

Q11: Drawing 000-ID-004.
Who provides these panels?
I see in spec 01 11 00, Paragraph 1.2, A, 2, e, 6 & 7 that the Electrician must wire these, but I do not see who provides them.

A11: The Process Control System Supplier.
The paragraph referenced does not correspond to the panels shown on 000-ID-004.

Q12: Drawing 000-ID-005 thru -007.
Drawing 000-ID-008 thru -011.
Who provides these (2) control panels?

A12: The Process Control System Supplier.

Q13: Drawing 000-ID-011.
Drawing 400-EM-006, Left side of page.
First drawing/schematic shows SOV143-400 being controlled solely by control panel shown on right side of page.
2nd drawing also lists SOV143-400 under "Typical For" column and indicates these are individual control panels for each valve instead of one master valve

control panel.
Please clarify this inconsistency.
Who provides these smaller individual control panels?

A13: Refer to updated Sheet 400-EM-006 issued in Addendum No. 1.
No small individual panels will be provided.

Q14: Drawing 400-EM-006, Right side of page.
Who provides these control stations?

A14: Electrical Contractor.

Q15: Drawing 400-EM-007
Who provides these control stations?

A15: Electrical Contractor.

Q16: Drawing 400-EM-013.
Spec 01 11 00, paragraph 1.2, A, 2, g, 3.
Spec states panel by Electrical Contractor. Drawing shows panel by General Contractor.
Who provides these control panels?
Drawing shows remote ESTOP. Who provides remote ESTOP pushbutton station?

A16: This was clarified in Addendum No. 1. Control Panels are provided under Specification Section 46 24 23.
Electrical Contractor.

Q17: Drawing 400-EM-005.
Who provides these control panels?
Drawing shows Warning Horns. Who provides these?

A17: Electrical Contractor.
This Drawing was removed in Addendum No. 1.

Q18: Drawing 400-EM-014.
Who provides the remote LOR operator station?

A18: Electrical Contractor.

Q19: Drawing 000-I-004
Who provides and PROGRAMS the two new Ethernet switches shown in DPU032-PIEH (back)?
Does the PCSS provide ANY of the PLCs, HMIs, SCADA Computers, and/or Ethernet Equipment specified in Section 40? Nothing is shown on any drawing.

A19: Process Control System Supplier.
There are no PLCs or OITs in the scope. These specs are provided as reference for the GBT Supplier as they are providing control panels with PLCs and OITs. The Owner will provide the Managed Ethernet switches that

are shown on Drawing 000-I-004.

Q20: Ref. 400-ED-008 note 1,2 & all riser diagrams
Note 1 - Please provide breaker types need for replacing indicated on the referenced drawing for pricing.
Note 2 – Please provide breaker types needed for providing new settings for existing breakers.
A20: Replace breakers in panels shown on 400-ED-008 to match existing.
There is not a Note 1 on 400-ED-008.
There is not a Note 2 on 400-ED-008.

Q21: Ref. 701-ET-001
Pump PPS002-701 shows conduit in light grey.
Would this mean we are reusing the existing conduit?
A21: See Changes to the Drawings in this Addendum No. 2.

Q22: Ref. 400-ET-120
Please reference what the LE symbol represents.
A22: Level Element.

Q23: Ref. 400-ESL-010
Please indicate what size conduits and conductors are needed for the capacitor banks and reactors.
A23: See Changes to the Drawings in this Addendum No. 2.

Q24: Ref. 400-et-124
Is all equipment being fed from the LCPR2-400 panel indicated in the new control room.
A24: Yes, see Changes to the Drawings in this Addendum No. 2.

Q25: Please provide panel schedule for panel LCPR2-400.
A25: See Changes to the Drawings in this Addendum No. 2.

Q26: Please provide panel schedule for panel IPP002-400.
A26: See Changes to the Drawings in this Addendum No. 2.

Q27: Ref. 400-ET-121 note 1
Please provide catalog no. for the 2x4 fixture.
Please reference what the indicated us-1 symbol is and power requirements.
A27: See Changes to the Drawings in this Addendum No. 2.
US-1 does not have power requirements.

Q28: Could we please have a two-week extension on the bid due date?
A28: The bid date has been extended in this Addendum No. 2.

Q29: Specification Section 26 05 33.13 – Table 13.1 – Specifies that EMT can be used in "Indoor air-conditioned spaces control rooms." And Rigid Aluminum Conduit can be used in "All indoor areas". However, Note 3 on Drawing 701-ET-001 and 702-ET-001 states "All new conduit shall be PVC Coated Rigid Conduits". Note that this note I found this note on "Electric Power Plans" for Area 711, 712, 821 and 831. All the existing conduit in these areas is currently Rigid Aluminum Conduit. Are PVC Coated Rigid conduits required to be used in these areas or is Rigid Aluminum acceptable?

A29: See Changes to the Drawings in this Addendum No. 2.

Q30: In Addendum No. 1 – Attachment G – Cable Schedule
Attachment G was included in the Addendum with no explanation. Why was this Cable Schedule issued as part of the Addendum? Does this replace the cable schedule that is part of the drawings?
Addendum 1 – 3.103 Note, the Cable Schedule beginning on Sheet 000-E-003 is attached to this Addendum No. 1 as an Excel File (Attachment G).
Note: Attachment G is only (4) pages long. The cable schedule starting on Sheet 000-E-003 is (18) drawings. Does attachment G include the entire cable schedule?
Addendum 1 - This is referred to as an excel file in the Addendum. We received the cable schedule as a PDF file.

A30: The Cable Schedule included in Addendum No. 1 does NOT replace the Cable Schedule that is part of the Drawings.
Disregard Attachment G from Addendum No. 1.
The Cable Schedule is included as Attachment C to this Addendum No. 2 and is now uploaded to ALCOSAN's bid website as an Excel file.

Q31: The rotary lobe pump specification section 43 23 58 names Boerger and states "no substitutions." Can other pump manufacturers be submitted for this application?

A31: Other pump manufacturers will not be accepted for the rotary lobe pumps on this project.

Q32: The mixer specification section 46 41 24 names Lightnin, Philadelphia Mixers, and Chemineer and states "or equal." Can other mixer manufacturers be submitted for this application?

A32: Yes, "or equal" mixer manufacturers will be accepted.

Q33: Has there been any discussion about how existing conditions are going to be handled for this project? I see that being the most complicated part of BIM coordination and could affect our time greatly one way or another.
Will they have these conditions modeled? Or be relying on scans of the space? Or some other method?

A33: Model files are provided for reference only in accordance with Article 2,

Paragraph 34. The 3D model is not a Contract Document. Model files are available for all project areas on the project flashdrive provided by ALCOSAN. Bid the project as shown and specified in the Contract Documents.

Q34: Most of the work seems to be in the 400-ET Dewatering building (basement, level 1, level 2, and mezzanine).
There are additional sheets for small pumping station, and isolated electrical rooms (701, 702, 706, 711, 712, 716, 725, 821, 824, 831, 834).
Are they planning to model and coordinate these areas, or are they being field coordinated. Most of the work seems to be demo old and reconnect new.

A34: Model files are provided for reference only in accordance with Article 2, Paragraph 34. The 3D model is not a Contract Document. Model files are available for all project areas on the project flashdrive provided by ALCOSAN. Bid the project as shown and specified in the Contract Documents.

Q35: The conveyor specification section 41 12 13.36 requires shafted screw conveyors. Can shaftless screw conveyors be submitted for this application?

A35: No, the specification will not be revised.

END OF ADDENDUM No. 2

ATTACHMENT – A

230923.14 - Flow Switches

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SECTION 23 09 23.14 - FLOW SWITCHES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes duct flow switches.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

1. Construction details, material descriptions, dimensions of individual components and profiles, and finishes.

2. Operating characteristics; electrical characteristics; and furnished accessories indicating process operating range, accuracy over range, control signal over range, default control signal with loss of power, calibration data specific to each unique application, electrical power requirements, and limitations of ambient operating environment, including temperature and humidity.

3. Product description with complete technical data, performance curves, and product specification sheets.

4. Installation instructions, including factors affecting performance.

5. Product certificates.

B. Shop Drawings:

1. Include plans, elevations, sections, and mounting details.

2. Include details of product assemblies. Indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.

3. Include diagrams for power, signal, and control wiring.

4. Include diagrams for air and process signal tubing.

5. Number-coded identification system for unique identification of wiring, cable, and tubing ends.

1.4 INFORMATIONAL SUBMITTALS

A. Product Certificates: For each product requiring a certificate.

B. Product Test Reports: For each product, for tests performed by a qualified testing agency.

1.5 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: For instruments to include in operation and maintenance manuals.

1.6 MAINTENANCE MATERIAL SUBMITTALS

A. None Required.

1.7 QUALITY ASSURANCE

A. Provide components compatible with functions required to form complete working system.

B. Ensure that materials of construction of wetted parts are compatible with process liquid.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Refer to Section 01 65 50 “Product Delivery, Storage, and Handling” for delivery, storage, and handling requirements.

1.9 WARRANTY

A. Provide one year warranty from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 THERMAL DISPERSION FLOW SWITCHES

A. Manufacturers:

1. Manufacturers and their products are subject to compliance with requirements. Provide one of the following:

a. ABB - TX units.
b. Fluid Components International (FCI) - FLT-93.
c. Magnetrol - Thermatel units.
d. Substitutions: Or equal

B. Type:

1. Thermal dispersion flow switch with integral electronics enclosure.
2. Inline with flow body or insertion type as indicated on the Drawings or in the Instrument Device Schedule/flow diagrams or mechanical plans:

C. Function/Performance:

1. Range: 1 to 125 ft/sin air.
2. Process Operating Temperature: -40 to 250 degrees F
3. Operating Temperature for Electronics: -0 to 140 degrees F.
4. Accuracy: Plus or minus 5 percent of reading.
5. Repeatability: Plus or minus 0.5 percent of reading.

D. Physical:

1. Wetted parts to be Type 316 stainless-steel.
2. Electronics head to be NEMA 4X (IP65) for non-hazardous process gases and explosion proof approved for Class 1, Division 1, Groups C and D for hazardous process gases or where located in a hazardous area.

E. Power Requirements:

1. 24 Vdc powered instrument

F. Accessories Required:

1. For insertion type flow elements provide a hot tap assembly including a ball valve and packing gland that will allow removal of the sensor without shutdown of the process. Provide welded fitting on the pipe for the hot tap assembly.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine walls, floors, roofs, and process area for suitable conditions where flow switches will be installed.

B. Prepare written report, endorsed by Installer, listing conditions detrimental to performance.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Comply with NECA 1.

B. Wiring Method: Conceal conductors and cables in accessible ceilings, walls, and floors where possible.

C. Wiring within Enclosures: Bundle, lace, and train conductors to terminal points with no excess and without exceeding manufacturer's limitations on bending radii.

3.3 IDENTIFICATION

A. Refer to drawings for tagging designations.

3.4 FIELD QUALITY CONTROL

A. Manufacturer's Field Service: Engage a factory-authorized service representative to test and inspect components, assemblies, and equipment installations, including connections.

B. Flow switches will be considered defective if it does not pass tests and inspections.

C. Prepare test and inspection reports.

3.5 STARTUP SERVICE

A. Perform startup service.

1. Complete installation and startup checks according to manufacturer's written instructions.

3.6 MAINTENANCE SERVICE

A. Not Required.

3.7 DEMONSTRATION

A. Train Owner's maintenance personnel to adjust, operate, and maintain units.

END OF SECTION 23 09 23.14

ATTACHMENT – B

Addendum 2 Drawings

KEYED NOTES

6. PROVIDE NEW 8" EXHAUST AIR DUCT CONNECTION FROM EXISTING EXHAUST AIR DUCTWORK TO SERVE NEW GBT ENCLOSURE. DUCTWORK SHALL BE OF WELDED STAINLESS STEEL. CONNECT AS PER MANUFACTURER'S RECOMMENDATIONS. BALANCE EACH DROP TO 200 CFM TO ACCOMMODATE 12 ACH UNDER GBT ENCLOSURE. SLOPE THE DUCT AS NEEDED TO DRAIN BACK INTO GBT ENCLOSURE. PROVIDE AIR FLOW MONITORING SENSOR IN EACH DROP. SENSOR TO PROVIDE AN ALARM INCASE THE AIRFLOW THROUGH THE DROP FALLS BELOW 200 CFM (ADJ.). ALARMS SHALL BE CONNECTED TO BUILDING DISTRIBUTION CONTROL SYSTEMS. PROVIDE AUDIBLE AND VISUAL ALARMS IN THE PROCESS ROOM. FLOW SWITCHES SHALL BE 24V DC AND POWERED FROM TEMPERATURE CONTROLS PANEL. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING 24V TRANSFORMER AND PROVIDING ANY WIRING DOWNSTREAM OF 24V TRANSFORMER. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING WIRING UPSTREAM OF 24V TRANSFORMER. REFER TO SPECIFICATION SECTION 230923.14 FOR ADDITIONAL INFORMATION. 1

20. RELOCATE EXISTING STEAM UNIT HEATERS TO A HIGHER ELEVATION AND ASSOCIATED PIPING BASED ON LOCATION OF NEW EQUIPMENT AND MEZZANINE SPACE. MAINTAIN REQUIRED CLEARANCES TO COMBUSTIBLES AND COMPLY WITH OTHER REQUIREMENTS AS PER MANUFACTURER'S RECOMMENDATIONS FOR FINAL LOCATION DETERMINATION.

24. ROUTE 12" EA DUCT DOWN BELOW THE MEZZANINE. DUCTWORK SHALL BE ROUTED IN THE SPACE BETWEEN THE NEW STRUCTURAL CURB AND NEW W16 FLANGE FOR THE MEZZANINE.. COORDINATE ROUTING WITH ELECTRICAL CONTROL PANELS AND OTHER ACCESSORIES IN SPACE. PROVIDE AIRFLOW SENSORS IN THE DUCTWORK. SENSORS TO ALARM IF EXHAUST CFM THROUGH THE DUCTWORK FALLS BELOW 1900 CFM (ADJ). PROVIDE AUDIBLE AND VISUAL ALARMS IN THE PROCESS ROOM AS WELL. 1

29. NEW 8" EA DROP TO CONNECT TO NEW CENTRIFUGE. REBALANCE DUCTWORK TO 234 CFM EACH TO CONNECT TO LIQUIDS DISCHARGE BOX. EACH DROP TO HAVE A BALANCING DAMPER. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS. INSTALLATION AND BALANCING OF NEW DUCTWORK SHALL FOLLOW PHASING OUT PLAN FOR REPLACING EXISTING CENTRIFUGES. SEE PROCESS MECHANICAL DRAWINGS FOR CONTINUATION OF DUCTWORK.

30. INSTALL AIR TERMINAL 8" ABOVE MEZZANINE FLOOR. PROVIDE AIRFLOW SENSORS IN THE DUCTWORK. SENSORS TO ALARM IF EXHAUST CFM THROUGH THE DUCTWORK FALLS BELOW 1900 CFM (ADJ). PROVIDE AUDIBLE AND VISUAL ALARMS IN THE PROCESS ROOM AS WELL. LOCATE DUCTWORK AS FLOW TO THE WALL AS POSSIBLE. 1

38. NEW 8" EA DROP TO CONNECT TO NEW CENTRIFUGE. REBALANCE DUCTWORK TO 234 CFM EACH TO CONNECT TO SOLIDS DISCHARGE CHUTE. EACH DROP TO HAVE A BALANCING DAMPER. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS. INSTALLATION AND BALANCING OF NEW DUCTWORK SHALL FOLLOW PHASING OUT PLAN FOR REPLACING EXISTING CENTRIFUGES. SEE PROCESS MECHANICAL DRAWINGS FOR CONTINUATION OF DUCTWORK.

60. ADJUST THE DUCTWORK RECTANGULAR TRANSITION SO THAT TRANSITION IS LOCATED 7 FEET ABOVE THE NEW GBT PLATFORM.

61. NEW 6" EA DROP TO SERVE SLUDGE SUMPS BELOW THE MEZZANINE. DUCTWORK SHALL BE ROUTED IN THE SPACE BETWEEN THE NEW STRUCTURAL CURB AND NEW W16 FLANGE FOR THE MEZZANINE. BALANCE TO 100 CFM. PROVIDE AIRFLOW SENSORS IN THE DUCTWORK. ALARMS SHALL BE PROVIDED IF AIRFLOW THROUGH THE DUCTWORK FALLS BELOW 100 CFM (ADJ). PROVIDE AUDIBLE AND VISUAL ALARMS IN THE PROCESS ROOM AS WELL. LOCATE THE DUCTWORK AS CLOSE TO THE WALL AS POSSIBLE. 1

KEYED NOTES

65. PROVIDE NEW DUCTWORK TRANSITION TO ACCOMMODATE NEW CONTROL ROOM. ADJUST DUCTWORK TRANSITION HEIGHT TO BE LOCATED ABOVE THE CONTROL ROOM ROOF AND BELOW THE CRANE (AND ASSOCIATED ACCESSORIES) ON SITE.

88. TERMINATE DUCT THROUGH THE SIDE WALL AND PROVIDE A BIRD SCREEN. MAINTAIN A MINIMUM SEPARATION OF 10 FEET BETWEEN EXHAUST AIR AND OUTSIDE AIR DUCTWORK.

97. RELOCATED STEAM UNIT HEATER

98. EXISTING UNIT HEATER TO REMAIN IN PLACE

113. PROVIDE AIR FLOW MONITORING SENSOR. SENSOR TO PROVIDE AN ALARM INCASE THE AIRFLOW THROUGH THE DROP FALLS BELOW 468 CFM (ADJ.). PROVIDE AUDIBLE AND VISUAL ALARMS IN THE PROCESS ROOM. 1

114. NEW 54"X34" DUCTWORK THRU THE ROOF. CONNECT TO MAIN ODOR CONTROL DUCTWORK UP ON THE ROOF. RECONNECT EXISTING PORTION OF 50"X16" DUCTWORK (PRESENT BELOW THE ROOF) TO THE NEW 54"X34" DUCTWORK. DOWNSTREAM OF THE 54"X16" DUCTWORK CONNECTION, PROVIDE A BALANCING DAMPER AND BALANCE TO 5725 CFM. PROVIDE A SCREEN ON OPEN DUCTWORK. ELEVATION OF DUCT OPENING SHOULD BE HIGH ENOUGH TO NOT CONFLICT WITH CRANE IN THE SPACE. REFER TO 5/400-H-107 FOR MORE INFORMATION.

115. NEW 34"X34" DUCTWORK THRU THE ROOF. CONNECT TO MAIN ODOR CONTROL DUCTWORK UP ON THE ROOF. RECONNECT EXISTING PORTION OF 14" DIAMETER DUCTWORK (PRESENT BELOW THE ROOF) TO THE NEW 34"X34" DUCTWORK. DOWNSTREAM OF THE 14" DUCTWORK CONNECTION, PROVIDE A BALANCING DAMPER ON 34"X34" DUCTWORK AND BALANCE TO 4434 CFM. PROVIDE A SCREEN ON OPEN DUCTWORK. ELEVATION OF DUCT OPENING SHOULD BE HIGH ENOUGH TO NOT CONFLICT WITH CRANE IN THE SPACE. REFER TO 7/400-H-107 FOR MORE INFORMATION.

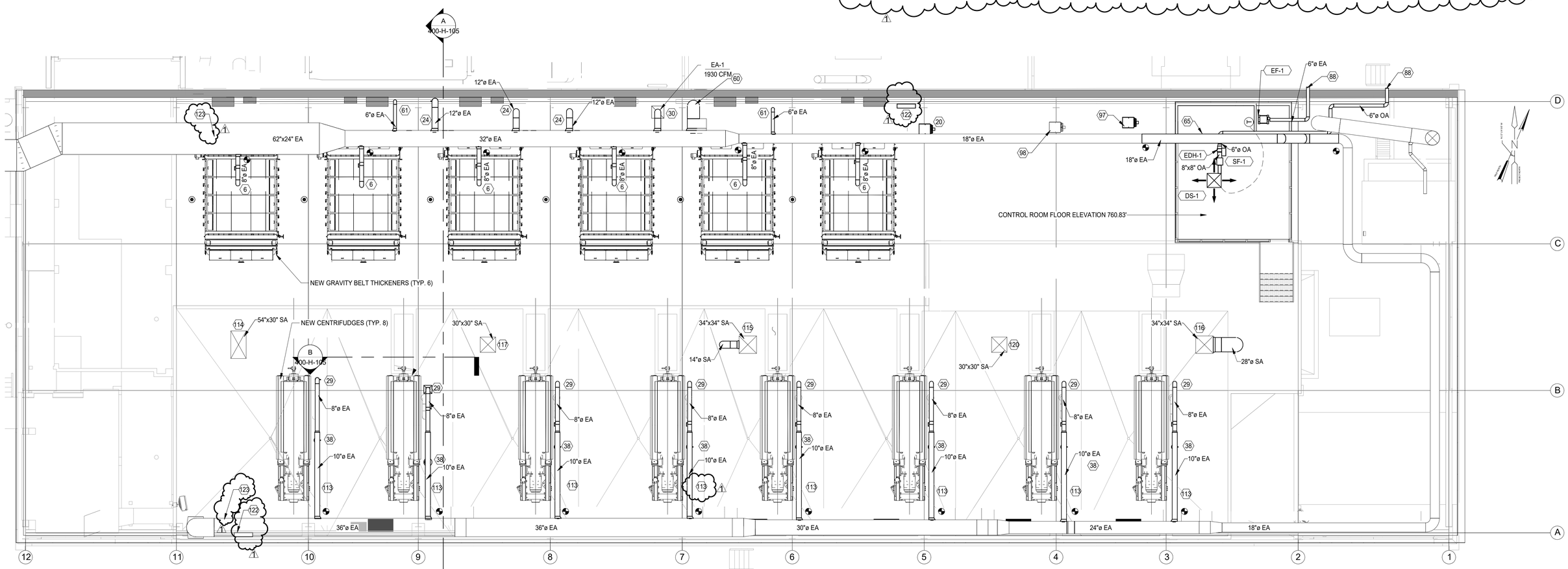
116. NEW 34"X34" DUCTWORK THRU THE ROOF. CONNECT TO MAIN ODOR CONTROL DUCTWORK UP ON THE ROOF. RECONNECT EXISTING PORTION OF 28" DIAMETER DUCTWORK (PRESENT BELOW THE ROOF) TO THE NEW 34"X34" DUCTWORK. DOWNSTREAM OF THE 28" DUCTWORK CONNECTION, PROVIDE A BALANCING DAMPER AND BALANCE TO 4433 CFM. PROVIDE A SCREEN ON OPEN DUCTWORK. ELEVATION OF DUCT OPENING SHOULD BE HIGH ENOUGH TO NOT CONFLICT WITH CRANE IN THE SPACE. REFER TO 8/400-H-107 FOR MORE INFORMATION.

117. EXISTING 30"X30" DUCT PENETRATION TO REMAIN IN PLACE. BALANCE TO 5,725 CFM

120. EXISTING 30"X30" DUCT PENETRATION TO REMAIN IN PLACE. BALANCE TO 4,433 CFM

122. PROVIDE NEW TEMPERATURE CONTROL PANEL. EXACT NUMBER AND LOCATION TO BE DETERMINED BY TEMPERATURE CONTROLS CONTRACTOR ON SITE.

123. PROVIDE FLOW SWITCH IN EXISTING DUCTWORK AT THE LOCATION INDICATED TO SERVE EXHAUST IN THE SPACE. FLOW SWITCHES SHALL BE 24V DC AND POWERED FROM TEMPERATURE CONTROLS PANEL. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING 24V TRANSFORMER AND PROVIDING ANY WIRING DOWNSTREAM OF 24V TRANSFORMER. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING WIRING UPSTREAM OF 24V TRANSFORMER. REFER TO SPECIFICATION SECTION 230923.14 FOR ADDITIONAL INFORMATION. PROVIDE A SINGLE OUTPUT FOR GENERAL CONTRACTOR FOR GAS MONITORING PANELS. 1



MEZZANINE DUCTWORK NEW WORK

SCALE: 1/8" = 1'-0"

Designed by:	REVISION			
S.BHAT	REV No.	DATE	DESCRIPTION	APPV
Drawn by:	1	8/27/24	REVISED PER ADDENDUM 2	
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Checked by:				
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WASTEWATER TREATMENT PLANT
SOLIDS THICKENING AND DEWATERING IMPROVEMENTS

400-H-102
DEWATERING BUILDING
MEZZANINE - DUCTWORK NEW WORK

Contract: 1799
CAD File Name: 400-H-102.DWG
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LEGEND

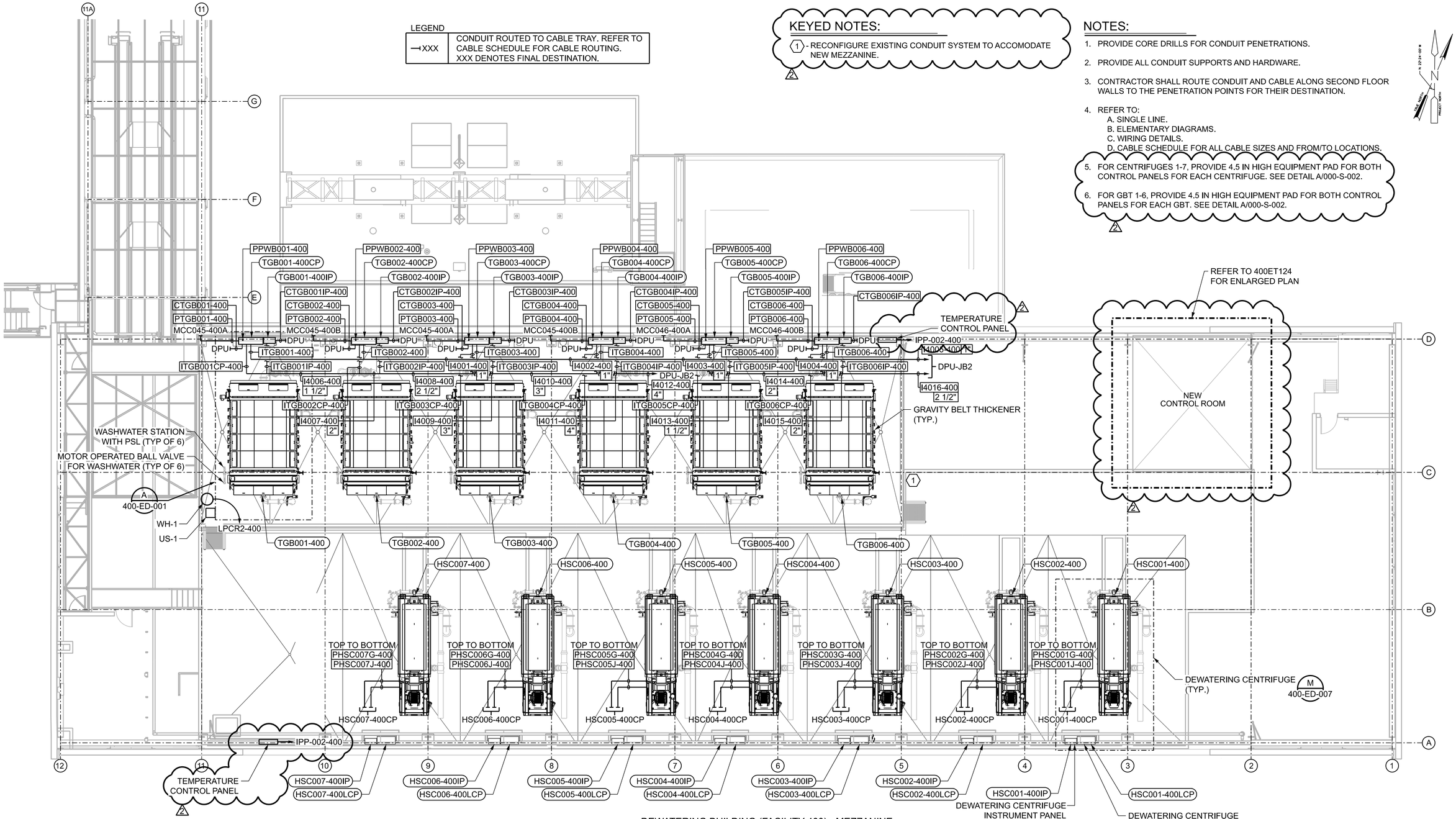
→XXX	CONDUIT ROUTED TO CABLE TRAY. REFER TO CABLE SCHEDULE FOR CABLE ROUTING. XXX DENOTES FINAL DESTINATION.

KEYED NOTES:

1. RECONFIGURE EXISTING CONDUIT SYSTEM TO ACCOMODATE NEW MEZZANINE.

NOTES:

1. PROVIDE CORE DRILLS FOR CONDUIT PENETRATIONS.
2. PROVIDE ALL CONDUIT SUPPORTS AND HARDWARE.
3. CONTRACTOR SHALL ROUTE CONDUIT AND CABLE ALONG SECOND FLOOR WALLS TO THE PENETRATION POINTS FOR THEIR DESTINATION.
4. REFER TO:
   A. SINGLE LINE.
   B. ELEMENTARY DIAGRAMS.
   C. WIRING DETAILS.
   D. CABLE SCHEDULE FOR ALL CABLE SIZES AND FROM/TO LOCATIONS.
5. FOR CENTRIFUGES 1-7, PROVIDE 4.5 IN HIGH EQUIPMENT PAD FOR BOTH CONTROL PANELS FOR EACH CENTRIFUGE. SEE DETAIL A/000-S-002.
6. FOR GBT 1-6, PROVIDE 4.5 IN HIGH EQUIPMENT PAD FOR BOTH CONTROL PANELS FOR EACH GBT. SEE DETAIL A/000-S-002.



DEWATERING BUILDING (FACILITY 400) - MEZZANINE

MEZZANINE PLAN

SCALE: 1/8" = 1'-0"

BAR SCALE: 1/8" = 1'-0"

8 4 0 8

Designed by: J. CROWLEY JR	REVISION			
	REV No.	DATE	DESCRIPTION	APPV
Drawn by: G. WARD	2	8/26/24	REVISED PER ADDENDUM 2	
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COMMONWEALTH OF PENNSYLVANIA
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ENGINEER
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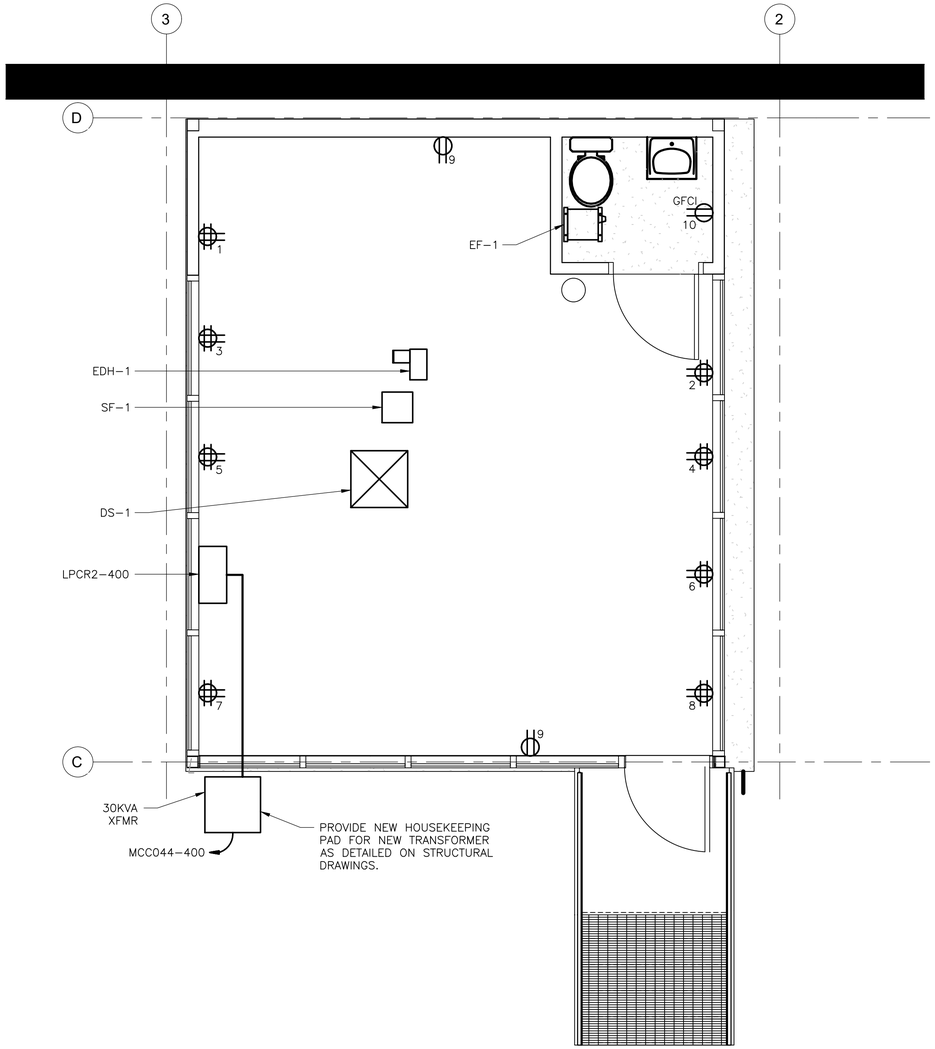
ALLEGHENY COUNTY SANITARY AUTHORITY
WASTEWATER TREATMENT PLANT
SOLIDS THICKENING AND DEWATERING IMPROVEMENTS

400-ET-121
DEWATERING BUILDING
ELECTRICAL - MEZZANINE FLOOR PLAN

Contract: 1799
CAD File Name: 400ET121.DGN
Date: 07 / 11 / 2024
Sheet: 345 of 440



DEWATERING BUILDING (FACILITY 400) - MEZZANINE

MEZZANINE ENLARGED PLAN I

SCALE: 3/8" = 1'0"

PANELBOARD LPCR2-400

100 AMP MAIN BREAKER — **100** AMP BUS RATING — **30** POLES — **208/120** VOLTS — **3** PHASE **4** WIRE **60 Hz.**

10 KA SHORT CIRCUIT RATING — ELECTRONIC GRADE: **NO**

LOCATION: **CONTROL ROOM** — ENCLOSURE RATING: **NEMA 1 ,** — MOUNTING: **SURFACE**

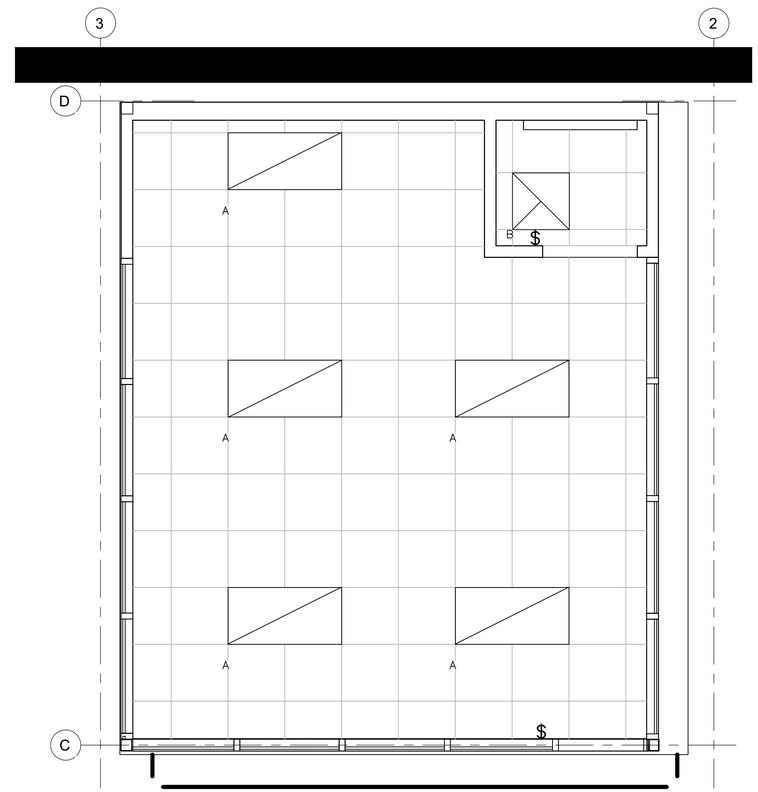
CIRCUIT NO.	DESCRIPTION	LOAD KVA PHASE A	LOAD KVA PHASE B	LOAD KVA PHASE C	BREAKER AMPS/ POLES	NOTES	CIRCUIT NO.	DESCRIPTION	LOAD KVA PHASE A	LOAD KVA PHASE B	LOAD KVA PHASE C	BREAKER AMPS/ POLES	NOTES
1	RECEPTACLE	0.36			20 /1	7	2	RECEPTACLE	0.36			20 /1	7
3	RECEPTACLE		0.36		20 /1	7	4	RECEPTACLE		0.36		20 /1	7
5	RECEPTACLE			0.36	20 /1	7	6	RECEPTACLE			0.36	20 /1	7
7	RECEPTACLE	0.36			20 /1	7	8	RECEPTACLE	0.36			20 /1	7
9	RECEPTACLE		0.36		20 /1	7	10	RECEPTACLE		0.36		20 /1	7
11	LIGHTING			0.36	20 /1	7	12	SF-1			0.18	20 /1	7
13	EF-1	0.04			20 /1	7	14	DS-1				20 /2	5
15	EDH-1		0.75		20 /2	5	16						
17				0.75			18	ACC-1				20 /2	5
19	SPACE				/1		20						
21	SPACE				/1		22	SPACE				/1	
23	SPACE				/1		24	SPACE				/1	
25	SPACE				/1		26	SPACE				/1	
27	SPACE				/1		28	SPACE				/1	
29	SPACE				/1		30	SPACE				/1	
	TOTAL PHASE KVA THIS SIDE	0.76	1.47	1.47				TOTAL PHASE KVA THIS SIDE	0.72	0.72	0.54		
								TOTAL KVA PER PHASE	1.48	2.19	2.01		
								TOTAL THREE PHASE KVA		5.68			

NOTES:
1. PROVIDE LOCKING HARDWARE
3. 30 ma GFI CIRCUIT BREAKER FOR EQUIPMENT PROTECTION ONLY (HEAT TRACE)
5. BRANCH CIRCUIT WIRING: 3/4"C, 3#12 & 1#12G
7. BRANCH CIRCUIT WIRING: 3/4"C, 2#12 & 1#12G

NOTES CONT.:
2. 5 ma GROUND FAULT INTERRUPTER (GFI) CIRCUIT BREAKER
4. PROVIDE LOCKING HARDWARE & PAINT BREAKER HANDLE RED (FACP)
6. BRANCH CIRCUIT WIRING: 3/4"C, 3#10 & 1#10G

LIGHTING FIXTURE SCHEDULE

TYPE	BRAND AND MODEL (OR EQUAL)	DESCRIPTION
A	LITHONIA LIGHTING CPANL 2X4 AL06 SWW7 M4	2X4 FULLY SWITCHABLE LED FLAT PANEL, 4000 LUMENS, 3500 COLOR TEMP.
B	LITHONIA LIGHTING CPANL 2X2 AL01 SWW7 M4	2X2 FULLY SWITCHABLE LED FLAT PANEL, 2400 LUMENS, 3500 COLOR TEMP.



DEWATERING BUILDING (FACILITY 400) - MEZZANINE

MEZZANINE ENLARGED PLAN II

SCALE: 3/8" = 1'0"

NOTE:

1. PROVIDE CORE DRILLS FOR CONDUIT PENETRATIONS.
2. PROVIDE ALL CONDUIT SUPPORTS AND HARDWARE.
3. CONTRACTOR SHALL ROUTE CONDUIT AND CABLE ALONG SECOND FLOOR WALLS TO THE PENETRATION POINTS FOR THEIR DESTINATION.
4. REFER TO:
   A. SINGLE LINE.
   B. ELEMENTARY DIAGRAMS.
   C. WIRING DETAILS.
   D. CABLE SCHEDULE FOR ALL CABLE SIZES AND FROM/TO LOCATIONS.

3/8" = 1'- 0"
2 0 2 4

Designed by: J. CROWLEY JR
Drawn by: J. OGDEN
Checked by: J. CROWLEY

REVISION

REV No.	DATE	DESCRIPTION	APPV
1	8/13/24	REVISED PER ADDENDUM 1	
2	8/26/24	REVISED PER ADDENDUM 2	

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7/12/24

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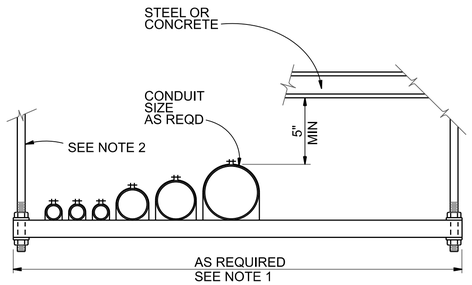
ALLEGHENY COUNTY SANITARY AUTHORITY
WASTEWATER TREATMENT PLANT
SOLIDS THICKENING AND DEWATERING IMPROVEMENTS

400-ET-124
DEWATERING BUILDING
ELECTRICAL - MEZZANINE ENLARGED PLAN

Contract: S-1799
CAD File Name: 400ET124.dwg
Date: 08 / 20 / 2024
Sheet: 348 of 440

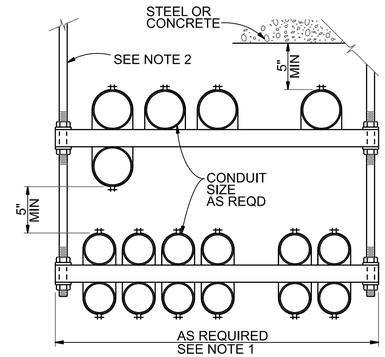


DETAIL 5 NTS

SINGLE RACK CONDUIT RACKING SYSTEM

NOTES:

1. LENGTH VARIES WITH NUMBER OF PIPES TO BE SUPPORTED AND SPACING BETWEEN PIPES.
2. HANGAR RODS SHALL BE SIZED FOR LOADS AND SPACING.
3. ALLOWABLE SPAN, NUMBER AND SIZE OF SUPPORT RODS AND ALLOWABLE LOADING PER MANUFACTURER'S RECOMMENDATIONS.
4. FOR HANGAR ROD SUPPORT IN CONCRETE APPLICATIONS, USE SWIVEL CONCRETE INSERTS. FOR STEEL BEAM APPLICATIONS, USE SWIVEL BEAM CLAMPS.

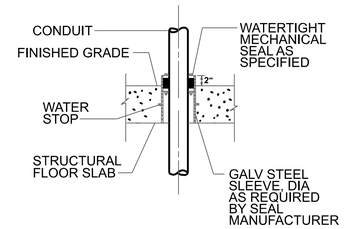


DETAIL 6 NTS

DOUBLE RACK CONDUIT RACKING SYSTEM

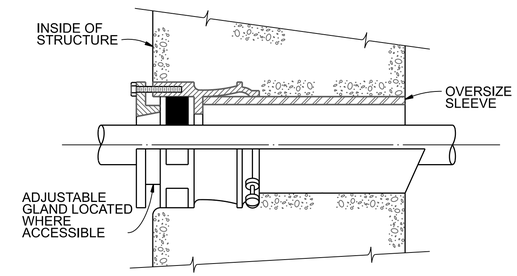
NOTES:

1. LENGTH VARIES WITH NUMBER OF PIPES TO BE SUPPORTED AND SPACING BETWEEN PIPES.
2. HANGAR RODS SHALL BE SIZED FOR LOADS AND SPACING.
3. ALLOWABLE SPAN, NUMBER AND SIZE OF SUPPORT RODS AND ALLOWABLE LOADING PER MANUFACTURER'S RECOMMENDATIONS.
4. FOR HANGAR ROD SUPPORT IN CONCRETE APPLICATIONS, USE SWIVEL CONCRETE INSERTS. FOR STEEL BEAM APPLICATIONS, USE SWIVEL BEAM CLAMPS.



DETAIL 7 NTS

CONDUIT PENETRATION

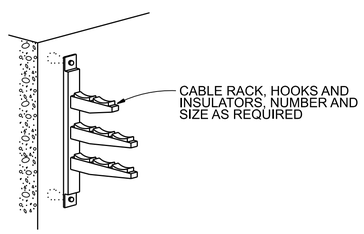


DETAIL 8 NTS

WATERTIGHT WALL CONDUIT SEAL

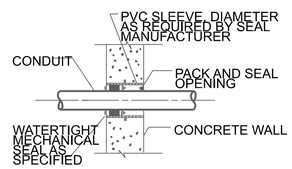
NOTES:

1. USE WATERTIGHT CONDUIT SEAL WHERE CONDUIT PENETRATIONS OF BUILDING EXTERIOR WALLS ARE BELOW GRADE.



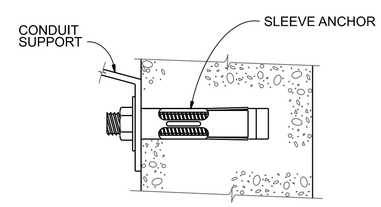
DETAIL 9 NTS

CABLE RACK



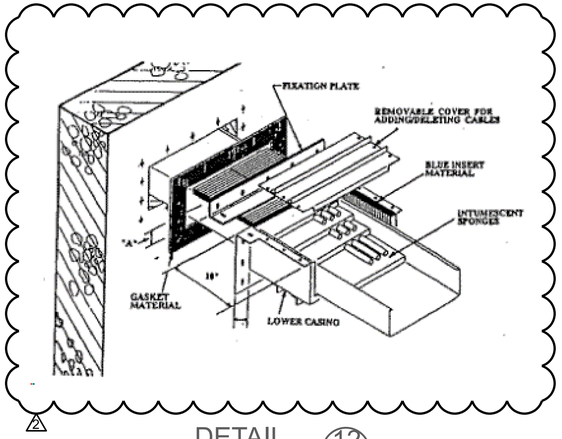
DETAIL 10 NTS

WATERTIGHT CONDUIT PENETRATION



DETAIL 11 NTS

EXPANSION SHIELD INSTALLATION



2

DETAIL 12 NTS

FIRESTOP UNIT INSTALLATION

Designed by: J. CROWLEY JR	REVISION			
	REV No.	DATE	DESCRIPTION	APPV
Drawn by: G. WARD	2	8/26/24	REVISED PER ADDENDUM 2	
Checked by: J. CROWLEY				

CDM Smith
ONE ALLEGHENY SQUARE
NOVA TOWER 1, SUITE 200
PITTSBURGH, PA 15212
TEL: (412) 201-5500

COMMONWEALTH OF PENNSYLVANIA
JOSEPH D. CROWLEY
7/12/24

alcosan allegheny county sanitary authority

ARLETTA SCOTT WILLIAMS
EXECUTIVE DIRECTOR, ALCOSAN

3300 PREBLE AVE.
PITTSBURGH, PA 15233
(412) 766 - 4810

www.alcosan.org

ALLEGHENY COUNTY SANITARY AUTHORITY
WASTEWATER TREATMENT PLANT
SOLIDS THICKENING AND DEWATERING IMPROVEMENTS

400-ED-102
ELECTRICAL
STANDARD DETAILS II

Contract: 1799
CAD File Name: 400ED102.DGN
Date: 07 / 11 / 2024
Sheet: 353 of 440

STATUS	Device Prefix	Device N	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors	Number of Parallel Cables	Equipment From	Equipment To	Via Raceways	Remarks	Remarks Cont.
DEMO	CSL	001	C-CSL001A-400	#14	26/C	1	HSC001-400ICP	CSL001-400IBT	CHSC001A-400, CT-3, CT-5, CCSL001-400		
DEMO	CSL	001	C-CSL001B-400	#14	26/C	1	HSC001-400LCP	CSL001-400IBT	CHSC001A-400, CT-3, CT-5, CCSL001-400		
DEMO	CSL	001	C-CSL001-400CS2	#14	1/C	4	CSL001-400IBT	CSL001-400CS2	CCSL001A-400, CCSL001D-400, CCSL001F-400, CCSL001H-400		
DEMO	CSL	001	C-CSL001-400CS3	#14	1/C	2	CSL001-400IBT	CSL001-400CS3	CCSL001A-400, CCSL001D-400, CCSL001E-400		
DEMO	CSL	001	C-CSL001-400D5	#14	1/C	2	CSL001-400IBT	CSL001-400D5	CCSL001A-400, CCSL001C-400		
DEMO	CSL	001	C-CSL001-400D5S2	#14	1/C	2	CSL001-400IBT	CSL001-400D5S2	CCSL001A-400, CCSL001D-400, CCSL001F-400, CCSL001G-400		
DEMO	CSL	001	C-CSL001-400S5	#14	1/C	4	CSL001-400IBT	CSL001-400S5	CCSL001A-400, CCSL001B-400		
DEMO	CSL	001	C-SOV014-400	#14	1/C	4	CSL001-400IBT	SOV014-400	CCSL001J-400, CCSL001N-400, CCSL001P-400		
DEMO	CSL	001	C-SOV073-400	#14	1/C	4	CSL001-400IBT	SOV073-400	CCSL001J-400, CCSL001N-400, CCSL001Q-400, CCSL001S-400		
DEMO	CSL	001	C-SOV073-400ZSC	#14	1/C	2	CSL001-400IBT	SOV073-400ZSC	CCSL001J-400, CCSL001N-400, CCSL001Q-400, CCSL001R-400		
DEMO	CSL	001	C-SOV073-400ZSO	#14	1/C	2	CSL001-400IBT	SOV073-400ZSO	CCSL001J-400, CCSL001N-400, CCSL001Q-400, CCSL001T-400		
DEMO	CSL	001	C-SOV074-400	#14	1/C	4	CSL001-400IBT	SOV074-400	CCSL001J-400, CCSL001N-400, CCSL001Q-400, CCSL001U-400, CCSL001W-400		
DEMO	CSL	001	C-SOV074-400ZSC	#14	1/C	2	CSL001-400IBT	SOV074-400ZSC	CCSL001J-400, CCSL001N-400, CCSL001Q-400, CCSL001U-400, CCSL001V-400		
DEMO	CSL	001	C-SOV074-400ZSO	#14	1/C	2	CSL001-400IBT	SOV074-400ZSO	CCSL001J-400, CCSL001N-400, CCSL001Q-400, CCSL001U-400, CCSL001X-400		
DEMO	CSL	001	C-SOV075-400	#14	1/C	4	CSL001-400IBT	SOV075-400	CCSL001J-400, CCSL001L-400		
DEMO	CSL	001	C-SOV075-400ZSC	#14	1/C	2	CSL001-400IBT	SOV075-400ZSC	CCSL001J-400, CCSL001K-400		
DEMO	CSL	001	C-SOV075-400ZSO	#14	1/C	2	CSL001-400IBT	SOV075-400ZSO	CCSL001J-400, CCSL001M-400		
DEMO	CSL	001	P-CSL001-400	#10	4/C	1	HSC001-400CP	CSL001-400	PCSL002A-400, PT-14, PT-16, PT-19, PCSL001-400	SLUDGE SCREW CONVEYOR #1	
DEMO	CSL	001	C-SOV014A-400	#14	1/C	4	CSL001-400IBT	SOV014A-400			
DEMO	CSL	001	P-CSL001-400LP				CSL001-400JB	CSL001-400LP	PT-14, PT-16, PT-19	SLUDGE SCREW CONVEYOR #1 LUBE PUMP	
DEMO	CSL	002	C-CSL002A-400	#14	26/C	1	HSC002-400CP	CSL002-400IBT	CHSC002A-400, CT-1, CT-3, CT-5, CCSL002-400		
DEMO	CSL	002	C-CSL002B-400	#14	26/C	1	HSC002-400CP	CSL002-400IBT	CHSC002A-400, CT-1, CT-3, CT-5, CCSL002-400		
DEMO	CSL	002	C-CSL002-400CS2	#14	1/C	4	CSL002-400IBT	CSL002-400CS2	CCSL002A-400, CCSL002D-400, CCSL002F-400, CCSL002H-400		
DEMO	CSL	002	C-CSL002-400CS3	#14	1/C	2	CSL002-400IBT	CSL002-400CS3	CCSL002A-400, CCSL002D-400, CCSL002E-400		
DEMO	CSL	002	C-CSL002-400D5	#14	1/C	2	CSL002-400IBT	CSL002-400D5	CCSL002A-400, CCSL002C-400		
DEMO	CSL	002	C-CSL002-400D5S2	#14	1/C	2	CSL002-400IBT	CSL002-400D5S2	CCSL002A-400, CCSL002D-400, CCSL002F-400, CCSL002G-400		
DEMO	CSL	002	C-CSL002-400S5	#14	1/C	4	CSL002-400IBT	CSL002-400S5	CCSL002A-400, CCSL002B-400		
DEMO	CSL	002	C-SOV015-400	#14	1/C	4	CSL002-400IBT	SOV015-400	CCSL002J-400, CCSL002N-400, CCSL002P-400		
DEMO	CSL	002	C-SOV076-400	#14	1/C	4	CSL002-400IBT	SOV076-400	CCSL002J-400, CCSL002N-400, CCSL002Q-400, CCSL002S-400		
DEMO	CSL	002	C-SOV076-400ZSC	#14	1/C	2	CSL002-400IBT	SOV076-400ZSC	CCSL002J-400, CCSL002N-400, CCSL002Q-400, CCSL002R-400		
DEMO	CSL	002	C-SOV076-400ZSO	#14	1/C	2	CSL002-400IBT	SOV076-400ZSO	CCSL002J-400, CCSL002N-400, CCSL002Q-400, CCSL002T-400		
DEMO	CSL	002	C-SOV077-400	#14	1/C	4	CSL002-400IBT	SOV077-400	CCSL002J-400, CCSL002N-400, CCSL002Q-400, CCSL002U-400, CCSL002W-400		
DEMO	CSL	002	C-SOV077-400ZSC	#14	1/C	2	CSL002-400IBT	SOV077-400ZSC	CCSL002J-400, CCSL002N-400, CCSL002Q-400, CCSL002U-400, CCSL002V-400		
DEMO	CSL	002	C-SOV077-400ZSO	#14	1/C	2	CSL002-400IBT	SOV077-400ZSO	CCSL002J-400, CCSL002N-400, CCSL002Q-400, CCSL002U-400, CCSL002X-400		
DEMO	CSL	002	C-SOV078-400	#14	1/C	4	CSL002-400IBT	SOV078-400	CCSL002J-400, CCSL002L-400		
DEMO	CSL	002	C-SOV078-400ZSC	#14	1/C	2	CSL002-400IBT	SOV078-400ZSC	CCSL002J-400, CCSL002K-400		
DEMO	CSL	002	C-SOV078-400ZSO	#14	1/C	2	CSL002-400IBT	SOV078-400ZSO	CCSL002J-400, CCSL002M-400		
DEMO	CSL	002	P-CSL002-400	#10	4/C	1	HSC002-400CP	CSL002-400	PCSL001A-400, PT-14, PT-16, PT-19, PCSL002-400	SLUDGE SCREW CONVEYOR #2	
DEMO	CSL	002	C-SOV015A-400	#14	1/C	4	CSL002-400IBT	SOV015A-400			
DEMO	CSL	002	P-CSL002-400LP				CSL002-400JB	CSL002-400LP	PT-14, PT-16, PT-19	SLUDGE SCREW CONVEYOR #2 LUBE PUMP	
DEMO	CSL	003	C-CSL003A-400	#14	26/C	1	HSC003-400CP	CSL003-400IBT	CHSC003A-400, CT-1, CT-3, CT-5, CCSL003-400		
DEMO	CSL	003	C-CSL003B-400	#14	26/C	1	HSC003-400CP	CSL003-400IBT	CHSC003A-400, CT-1, CT-3, CT-5, CCSL003-400		
DEMO	CSL	003	C-CSL003-400CS2	#14	1/C	4	CSL003-400IBT	CSL003-400CS2	CCSL003A-400, CCSL003D-400, CCSL003F-400, CCSL003H-400		
DEMO	CSL	003	C-CSL003-400CS3	#14	1/C	2	CSL003-400IBT	CSL003-400CS3	CCSL003A-400, CCSL003D-400, CCSL003E-400		
DEMO	CSL	003	C-CSL003-400D5	#14	1/C	2	CSL003-400IBT	CSL003-400D5	CCSL003A-400, CCSL003C-400		
DEMO	CSL	003	C-CSL003-400D5S2	#14	1/C	2	CSL003-400IBT	CSL003-400D5S2	CCSL003A-400, CCSL003D-400, CCSL003F-400, CCSL003G-400		

STATUS	Device Prefix	Device N	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors	Number of Parallel Cables	Equipment From	Equipment To	Via Raceways	Remarks	Remarks Cont.
DEMO	CSL	003	C-CSL003-4005S	#14	1/C	4	CSL003-400JBT	CSL003-4005S	CCSL003A-400, CCSL003B-400		
DEMO	CSL	003	C-SOV016-400	#14	1/C	4	CSL003-400JBT	SOV016-400	CCSL003J-400, CCSL003N-400, CCSL003P-400		
DEMO	CSL	003	C-SOV079-400	#14	1/C	4	CSL003-400JBT	SOV079-400	CCSL003J-400, CCSL003N-400, CCSL003Q-400, CCSL003S-400		
DEMO	CSL	003	C-SOV079-4002SC	#14	1/C	2	CSL003-400JBT	SOV079-4002SC	CCSL003J-400, CCSL003N-400, CCSL003Q-400, CCSL003R-400		
DEMO	CSL	003	C-SOV079-4002SO	#14	1/C	2	CSL003-400JBT	SOV079-4002SO	CCSL003J-400, CCSL003N-400, CCSL003Q-400, CCSL003T-400		
DEMO	CSL	003	C-SOV080-400	#14	1/C	4	CSL003-400JBT	SOV080-400	CCSL003J-400, CCSL003N-400, CCSL003Q-400, CCSL003U-400, CCSL003W-400		
DEMO	CSL	003	C-SOV080-4002SC	#14	1/C	2	CSL003-400JBT	SOV080-4002SC	CCSL003J-400, CCSL003N-400, CCSL003Q-400, CCSL003U-400, CCSL003V-400		
DEMO	CSL	003	C-SOV080-4002SO	#14	1/C	2	CSL003-400JBT	SOV080-4002SO	CCSL003J-400, CCSL003N-400, CCSL003Q-400, CCSL003U-400, CCSL003X-400		
DEMO	CSL	003	C-SOV081-400	#14	1/C	4	CSL003-400JBT	SOV081-400	CCSL003J-400, CCSL003L-400		
DEMO	CSL	003	C-SOV081-4002SC	#14	1/C	2	CSL003-400JBT	SOV081-4002SC	CCSL003J-400, CCSL003K-400		
DEMO	CSL	003	C-SOV081-4002SO	#14	1/C	2	CSL003-400JBT	SOV081-4002SO	CCSL003J-400, CCSL003M-400		
DEMO	CSL	003	P-CSL003-400	#10	4/C	1	HSC003-400CP	CSL003-400	PCSL003A-400,PT-14, PT-16, PT-19, PCSL003-400	SLUDGE SCREW CONVEYOR #3	
DEMO	CSL	003	C-SOV016A-400	#14	1/C	4	CSL003-400JBT	SOV016A-400			
DEMO	CSL	003	P-CSL003-400LP				CSL003-400JB	CSL003-400LP	PT-14, PT-16, PT-19	SLUDGE SCREW CONVEYOR #3 LUBE PUMP	
DEMO	CSL	004	C-CSL004A-400	#14	26/C	1	HSC004-400CP	CSL004-400JBT	CHSC004A-400, CT-1, CT-3, CT-5, CCSL004-400		
DEMO	CSL	004	C-CSL004B-400	#14	26/C	1	HSC004-400CP	CSL004-400JBT	CHSC004A-400, CT-1, CT-3, CT-5, CCSL004-400		
DEMO	CSL	004	C-CSL004-400CS2	#14	1/C	4	CSL004-400JBT	CSL004-400CS2	CCSL004A-400, CCSL004D-400, CCSL004F-400, CCSL004H-400		
DEMO	CSL	004	C-CSL004-400CS3	#14	1/C	2	CSL004-400JBT	CSL004-400CS3	CCSL004A-400, CCSL004D-400, CCSL004E-400		
DEMO	CSL	004	C-CSL004-4000S	#14	1/C	2	CSL004-400JBT	CSL004-4000S	CCSL004A-400, CCSL004C-400		
DEMO	CSL	004	C-CSL004-4000S2	#14	1/C	2	CSL004-400JBT	CSL004-4000S2	CCSL004A-400, CCSL004D-400, CCSL004F-400, CCSL004G-400		
DEMO	CSL	004	C-CSL004-4005S	#14	1/C	4	CSL004-400JBT	CSL004-4005S	CCSL004A-400, CCSL004B-400		
DEMO	CSL	004	C-SOV017-400	#14	1/C	4	CSL004-400JBT	SOV017-400	CCSL004J-400, CCSL004N-400, CCSL004P-400		
DEMO	CSL	004	C-SOV082-400	#14	1/C	4	CSL004-400JBT	SOV082-400	CCSL004J-400, CCSL004N-400, CCSL004Q-400, CCSL004S-400		
DEMO	CSL	004	C-SOV082-4002SC	#14	1/C	2	CSL004-400JBT	SOV082-4002SC	CCSL004J-400, CCSL004N-400, CCSL004Q-400, CCSL004R-400		
DEMO	CSL	004	C-SOV082-4002SO	#14	1/C	2	CSL004-400JBT	SOV082-4002SO	CCSL004J-400, CCSL004N-400, CCSL004Q-400, CCSL004T-400		
DEMO	CSL	004	C-SOV083-400	#14	1/C	4	CSL004-400JBT	SOV083-400	CCSL004J-400, CCSL004N-400, CCSL004Q-400, CCSL004U-400, CCSL004W-400		
DEMO	CSL	004	C-SOV083-4002SC	#14	1/C	2	CSL004-400JBT	SOV083-4002SC	CCSL004J-400, CCSL004N-400, CCSL004Q-400, CCSL004U-400, CCSL004V-400		
DEMO	CSL	004	C-SOV083-4002SO	#14	1/C	2	CSL004-400JBT	SOV083-4002SO	CCSL004J-400, CCSL004N-400, CCSL004Q-400, CCSL004U-400, CCSL004X-400		
DEMO	CSL	004	C-SOV084-400	#14	1/C	4	CSL004-400JBT	SOV084-400	CCSL004J-400, CCSL004L-400		
DEMO	CSL	004	C-SOV084-4002SC	#14	1/C	2	CSL004-400JBT	SOV084-4002SC	CCSL004J-400, CCSL004K-400		
DEMO	CSL	004	C-SOV084-4002SO	#14	1/C	2	CSL004-400JBT	SOV084-4002SO	CCSL004J-400, CCSL004M-400		
DEMO	CSL	004	P-CSL004-400	#10	4/C	1	HSC004-400CP	CSL004-400	PCSL004A-400, PT-14, PT-16, PT-19, PCSL004-400	SLUDGE SCREW CONVEYOR #4	
DEMO	CSL	004	C-SOV017A-400	#14	1/C	4	CSL004-400JBT	SOV017A-400			
DEMO	CSL	004	P-CSL004-400LP				CSL004-400JB	CSL004-400LP	PT-14, PT-16, PT-19	SLUDGE SCREW CONVEYOR #4 LUBE PUMP	
DEMO	CSL	005	C-CSL005A-400	#14	26/C	1	HSC005-400CP	CSL005-400JBT	CHSC005A-400, CT-2, CT-3, CT-5, CCSL005-400		
DEMO	CSL	005	C-CSL005B-400	#14	26/C	1	HSC005-400CP	CSL005-400JBT	CHSC005A-400, CT-2, CT-3, CT-5, CCSL005-400		
DEMO	CSL	005	C-CSL005-400CS2	#14	1/C	4	CSL005-400JBT	CSL005-400CS2	CCSL005A-400, CCSL005D-400, CCSL005F-400, CCSL005H-400		
DEMO	CSL	005	C-CSL005-400CS3	#14	1/C	2	CSL005-400JBT	CSL005-400CS3	CCSL005A-400, CCSL005D-400, CCSL005E-400		
DEMO	CSL	005	C-CSL005-4000S	#14	1/C	2	CSL005-400JBT	CSL005-4000S	CCSL005A-400, CCSL005C-400		
DEMO	CSL	005	C-CSL005-4000S2	#14	1/C	2	CSL005-400JBT	CSL005-4000S2	CCSL005A-400, CCSL005D-400, CCSL005F-400, CCSL005G-400		
DEMO	CSL	005	C-CSL005-4005S	#14	1/C	4	CSL005-400JBT	CSL005-4005S	CCSL005A-400, CCSL005B-400		
DEMO	CSL	005	C-SOV018-400	#14	1/C	4	CSL005-400JBT	SOV018-400	CCSL005J-400, CCSL005N-400, CCSL005P-400		
DEMO	CSL	005	C-SOV085-400	#14	1/C	4	CSL005-400JBT	SOV085-400	CCSL005J-400, CCSL005N-400, CCSL005Q-400, CCSL005S-400		
DEMO	CSL	005	C-SOV085-4002SC	#14	1/C	2	CSL005-400JBT	SOV085-4002SC	CCSL005J-400, CCSL005N-400, CCSL005Q-400, CCSL005R-400		
DEMO	CSL	005	C-SOV085-4002SO	#14	1/C	2	CSL005-400JBT	SOV085-4002SO	CCSL005J-400, CCSL005N-400, CCSL005Q-400, CCSL005T-400		
DEMO	CSL	005	C-SOV086-400	#14	1/C	4	CSL005-400JBT	SOV086-400	CCSL005J-400, CCSL005N-400, CCSL005Q-400, CCSL005U-400, CCSL005W-400		

STATUS	Device Prefix	Device N	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors	Number of Parallel Cables	Equipment From	Equipment To	Via Raceways	Remarks	Remarks Cont.
DEMO	CSL	005	C-SOV086-4002SC	#14	1/C	2	CSL005-400IBT	SOV086-4002SC	CCSL005J-400, CCSL005N-400, CCSL005Q-400, CCSL005U-400, CCSL005V-400		
DEMO	CSL	005	C-SOV086-4002SO	#14	1/C	2	CSL005-400IBT	SOV086-4002SO	CCSL005J-400, CCSL005N-400, CCSL005Q-400, CCSL005U-400, CCSL005X-400		
DEMO	CSL	005	C-SOV087-400	#14	1/C	4	CSL005-400IBT	SOV087-400	CCSL005J-400, CCSL005L-400		
DEMO	CSL	005	C-SOV087-4002SC	#14	1/C	2	CSL005-400IBT	SOV087-4002SC	CCSL005J-400, CCSL005X-400		
DEMO	CSL	005	C-SOV087-4002SO	#14	1/C	2	CSL005-400IBT	SOV087-4002SO	CCSL005J-400, CCSL005M-400		
DEMO	CSL	005	P-CSL005-400	#10	4/C	1	HSC005-400CP	CSL005-400	PCSL005A-400, PT-15, PT-16, PCSL005-400	SLUDGE SCREW CONVEYOR #5	
DEMO	CSL	005	C-SOV018A-400	#14	1/C	4	CSL005-400IBT	SOV018A-400			
DEMO	CSL	005	P-CSL005-400LP				CSL005-400IB	CSL005-400LP	PT-15, PT-16	SLUDGE SCREW CONVEYOR #5 LUBE PUMP	
DEMO	CSL	006	C-CSL006A-400	#14	26/C	1	HSC006-400CP	CSL006-400IBT	CHSC006A-400, CT-2, CT-3, CT-5, CCSL006-400		
DEMO	CSL	006	C-CSL006B-400	#14	26/C	1	HSC006-400CP	CSL006-400IBT	CHSC006A-400, CT-2, CT-3, CT-5, CCSL006-400		
DEMO	CSL	006	C-CSL006-400CS2	#14	1/C	4	CSL006-400IBT	CSL006-400CS2	CCSL006A-400, CCSL006D-400, CCSL006F-400, CCSL006H-400		
DEMO	CSL	006	C-CSL006-400CS3	#14	1/C	2	CSL006-400IBT	CSL006-400CS3	CCSL006A-400, CCSL006D-400, CCSL006E-400		
DEMO	CSL	006	C-CSL006-400D5	#14	1/C	2	CSL006-400IBT	CSL006-400D5	CCSL006A-400, CCSL006C-400		
DEMO	CSL	006	C-CSL006-400D5S2	#14	1/C	2	CSL006-400IBT	CSL006-400D5S2	CCSL006A-400, CCSL006D-400, CCSL006F-400, CCSL006G-400		
DEMO	CSL	006	C-CSL006-400S5	#14	1/C	4	CSL006-400IBT	CSL006-400S5	CCSL006A-400, CCSL006B-400		
DEMO	CSL	006	C-SOV019-400	#14	1/C	4	CSL006-400IBT	SOV019-400	CCSL006J-400, CCSL006N-400, CCSL006P-400		
DEMO	CSL	006	C-SOV088-400	#14	1/C	4	CSL006-400IBT	SOV088-400	CCSL006J-400, CCSL006N-400, CCSL006Q-400, CCSL006S-400		
DEMO	CSL	006	C-SOV088-4002SC	#14	1/C	2	CSL006-400IBT	SOV088-4002SC	CCSL006J-400, CCSL006N-400, CCSL006Q-400, CCSL006R-400		
DEMO	CSL	006	C-SOV088-4002SO	#14	1/C	2	CSL006-400IBT	SOV088-4002SO	CCSL006J-400, CCSL006N-400, CCSL006Q-400, CCSL006T-400		
DEMO	CSL	006	C-SOV089-400	#14	1/C	4	CSL006-400IBT	SOV089-400	CCSL006J-400, CCSL006N-400, CCSL006Q-400, CCSL006U-400, CCSL006W-400		
DEMO	CSL	006	C-SOV089-4002SC	#14	1/C	2	CSL006-400IBT	SOV089-4002SC	CCSL006J-400, CCSL006N-400, CCSL006Q-400, CCSL006U-400, CCSL006V-400		
DEMO	CSL	006	C-SOV089-4002SO	#14	1/C	2	CSL006-400IBT	SOV089-4002SO	CCSL006J-400, CCSL006N-400, CCSL006Q-400, CCSL006U-400, CCSL006X-400		
DEMO	CSL	006	C-SOV090-400	#14	1/C	4	CSL006-400IBT	SOV090-400	CCSL006J-400, CCSL006L-400		
DEMO	CSL	006	C-SOV090-4002SC	#14	1/C	2	CSL006-400IBT	SOV090-4002SC	CCSL006J-400, CCSL006K-400		
DEMO	CSL	006	C-SOV090-4002SO	#14	1/C	2	CSL006-400IBT	SOV090-4002SO	CCSL006J-400, CCSL006M-400		
DEMO	CSL	006	P-CSL006-400	#10	4/C	1	HSC006-400CP	CSL006-400	PCSL006A-400, PT-15, PT-16, PCSL006-400	SLUDGE SCREW CONVEYOR #6	
DEMO	CSL	006	C-SOV019A-400	#14	1/C	4	CSL006-400IBT	SOV019A-400			
DEMO	CSL	006	P-CSL006-400LP				CSL006-400IB	CSL006-400LP	PT-15, PT-16	SLUDGE SCREW CONVEYOR #6 LUBE PUMP	
DEMO	CSL	007	C-CSL007A-400	#14	26/C	1	HSC007-400CP	CSL007-400IBT	CHSC007A-400, CT-2, CT-3, CT-5, CCSL007-400		
DEMO	CSL	007	C-CSL007B-400	#14	26/C	1	HSC007-400CP	CSL007-400IBT	CHSC007A-400, CT-2, CT-3, CT-5, CCSL007-400		
DEMO	CSL	007	C-CSL007-400CS2	#14	1/C	4	CSL007-400IBT	CSL007-400CS2	CCSL007A-400, CCSL007D-400, CCSL007F-400, CCSL007H-400		
DEMO	CSL	007	C-CSL007-400CS3	#14	1/C	2	CSL007-400IBT	CSL007-400CS3	CCSL007A-400, CCSL007D-400, CCSL007E-400		
DEMO	CSL	007	C-CSL007-400D5	#14	1/C	2	CSL007-400IBT	CSL007-400D5	CCSL007A-400, CCSL007C-400		
DEMO	CSL	007	C-CSL007-400D5S2	#14	1/C	2	CSL007-400IBT	CSL007-400D5S2	CCSL007A-400, CCSL007D-400, CCSL007F-400, CCSL007G-400		
DEMO	CSL	007	C-CSL007-400S5	#14	1/C	4	CSL007-400IBT	CSL007-400S5	CCSL007A-400, CCSL007B-400		
DEMO	CSL	007	C-SOV020-400	#14	1/C	4	CSL007-400IBT	SOV020-400	CCSL007J-400, CCSL007N-400, CCSL007P-400		
DEMO	CSL	007	C-SOV091-400	#14	1/C	4	CSL007-400IBT	SOV091-400	CCSL007J-400, CCSL007N-400, CCSL007Q-400, CCSL007S-400		
DEMO	CSL	007	C-SOV091-4002SC	#14	1/C	2	CSL007-400IBT	SOV091-4002SC	CCSL007J-400, CCSL007N-400, CCSL007Q-400, CCSL007R-400		
DEMO	CSL	007	C-SOV091-4002SO	#14	1/C	2	CSL007-400IBT	SOV091-4002SO	CCSL007J-400, CCSL007N-400, CCSL007Q-400, CCSL007T-400		
DEMO	CSL	007	C-SOV092-400	#14	1/C	4	CSL007-400IBT	SOV092-400	CCSL007J-400, CCSL007N-400, CCSL007Q-400, CCSL007U-400, CCSL007W-400		
DEMO	CSL	007	C-SOV092-4002SC	#14	1/C	2	CSL007-400IBT	SOV092-4002SC	CCSL007J-400, CCSL007N-400, CCSL007Q-400, CCSL007U-400, CCSL007V-400		
DEMO	CSL	007	C-SOV092-4002SO	#14	1/C	2	CSL007-400IBT	SOV092-4002SO	CCSL007J-400, CCSL007N-400, CCSL007Q-400, CCSL007U-400, CCSL007X-400		
DEMO	CSL	007	C-SOV093-400	#14	1/C	4	CSL007-400IBT	SOV093-400	CCSL007J-400, CCSL007L-400		
DEMO	CSL	007	C-SOV093-4002SC	#14	1/C	2	CSL007-400IBT	SOV093-4002SC	CCSL007J-400, CCSL007K-400		
DEMO	CSL	007	C-SOV093-4002SO	#14	1/C	2	CSL007-400IBT	SOV093-4002SO	CCSL007J-400, CCSL007M-400		
DEMO	CSL	007	P-CSL007-400	#10	4/C	1	HSC007-400CP	CSL007-400	PCSL007A-400, PT-15, PT-16, PCSL007-400	SLUDGE SCREW CONVEYOR #7	

STATUS	Device Prefix	Device N	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors	Number of Parallel Cables	Equipment From	Equipment To	Via Raceways	Remarks	Remarks Cont.
DEMO	CSL	007	C-SOV020A-400	#14	1/C	4	CSL007-400JBT	SOV020A-400			
DEMO	CSL	007	P-CSL007-400LP				CSL007-400JB	CSL007-400LP	PT-15, PT-16	SLUDGE SCREW CONVEYOR #7 LUBE PUMP	
DEMO	DFP	001	P-DFP001-400AF	#8	4/C	1	MCC045-400A	DFP001-400AF	PDFP001B-400AF, PT-5, PT-6, PDFP001A-400AF		
DEMO	DFP	001	P-DFP001-400	#8	1/C	4	DFP001-400AF	DFP001-400MO	PDFP001-400, PDFP001A-400		
DEMO	DFP	001	C-DFP001-400CS2	#14	1/C	4	DFP001-400AF	DFP001-400CS2	CDFP001-400, CDFP001B-400, CDFP001D-400, CDFP001E-400		
DEMO	DFP	001	C-DFP001-400HTR	#14	1/C	2	DFP001-400AF	DFP001-400HTR	CDFP001-400, CDFP001A-400, PDFP001A-400		
DEMO	DFP	001	C-DFP001-400PSH	#14	1/C	4	DFP001-400AF	DFP001-400PSH	CDFP001-400, CDFP001B-400, CDFP001C-400		
DEMO	DFP	001	C-DFP001-400PSL	#14	1/C	4	DFP001-400AF	DFP001-400PSL	CDFP001-400, CDFP001B-400, CDFP001D-400, CDFP001F-400		
DEMO	DFP	001	C-DFP001-400TS	#14	1/C	2	DFP001-400AF	DFP001-400TS	CDFP001-400, CDFP001A-400, PDFP001A-400		
DEMO	DFP	001	C-DFP001-400AF	#14	19/C	1	DFPU	DFP001-400AF	CDFP-400, CT-9, CDFP001-400AF		
DEMO	DFP	002	P-DFP002-400AF	#8	4/C	1	MCC045-400A	DFP002-400AF	PDFP002B-400AF, PT-5, PT-6, PDFP002A-400AF		
DEMO	DFP	002	P-DFP002-400	#8	1/C	4	DFP002-400AF	DFP002-400MO	PDFP002-400		
DEMO	DFP	002	C-DFP002-400CS2	#14	1/C	4	DFP002-400AF	DFP002-400CS2	CDFP002-400, CDFP002B-400, CDFP002D-400, CDFP002E-400		
DEMO	DFP	002	C-DFP002-400HTR	#14	1/C	2	DFP002-400AF	DFP002-400HTR	CDFP002-400, CDFP002A-400, PDFP002A-400		
DEMO	DFP	002	C-DFP002-400PSH	#14	1/C	4	DFP002-400AF	DFP002-400PSH	CDFP002-400, CDFP002B-400, CDFP002C-400		
DEMO	DFP	002	C-DFP002-400PSL	#14	1/C	4	DFP002-400AF	DFP002-400PSL	CDFP002-400, CDFP002B-400, CDFP002D-400, CDFP002F-400		
DEMO	DFP	002	C-DFP002-400TS	#14	1/C	2	DFP002-400AF	DFP002-400TS	CDFP002-400, CDFP002A-400, PDFP002A-400		
DEMO	DFP	002	C-DFP002-400AF	#14	19/C	1	DFPU	DFP002-400AF	CDFP-400, CT-9, CDFP002-400AF		
DEMO	DFP	003	P-DFP003-400AF	#8	4/C	1	MCC045-400A	DFP003-400AF	PDFP003B-400AF,PT-5, PT-6, PDFP003A-400AF		
DEMO	DFP	003	P-DFP003-400	#8	1/C	4	DFP003-400AF	DFP003-400MO	PDFP003-400		
DEMO	DFP	003	C-DFP003-400CS2	#14	1/C	4	DFP003-400AF	DFP003-400CS2	CDFP003-400, CDFP003B-400, CDFP003D-400, CDFP003E-400		
DEMO	DFP	003	C-DFP003-400HTR	#14	1/C	2	DFP003-400AF	DFP003-400HTR	CDFP003-400, CDFP003A-400, PDFP003A-400		
DEMO	DFP	003	C-DFP003-400PSH	#14	1/C	4	DFP003-400AF	DFP003-400PSH	CDFP003-400, CDFP003B-400, CDFP003C-400		
DEMO	DFP	003	C-DFP003-400PSL	#14	1/C	4	DFP003-400AF	DFP003-400PSL	CDFP003-400, CDFP003B-400, CDFP003D-400, CDFP003F-400		
DEMO	DFP	003	C-DFP003-400TS	#14	1/C	2	DFP003-400AF	DFP003-400TS	CDFP003-400, CDFP003A-400, PDFP003A-400		
DEMO	DFP	003	C-DFP003-400AF	#14	19/C	1	DFPU	DFP003-400AF	CDFP-400, CT-9, CDFP003-400AF		
DEMO	DFP	004	P-DFP004-400AF	#8	4/C	1	MCC045-400A	DFP004-400AF	PDFP004B-400AF, PT-5, PT-6, PDFP004A-400AF		
DEMO	DFP	004	P-DFP004-400	#8	1/C	4	DFP004-400AF	DFP004-400MO	PDFP004-400		
DEMO	DFP	004	C-DFP004-400CS2	#14	1/C	4	DFP004-400AF	DFP004-400CS2	CDFP004-400, CDFP004B-400, CDFP004D-400, CDFP004E-400		
DEMO	DFP	004	C-DFP004-400HTR	#14	1/C	2	DFP004-400AF	DFP004-400HTR	CDFP004-400, CDFP004A-400, PDFP004A-400		
DEMO	DFP	004	C-DFP004-400PSH	#14	1/C	4	DFP004-400AF	DFP004-400PSH	CDFP004-400, CDFP004B-400, CDFP004C-400		
DEMO	DFP	004	C-DFP004-400PSL	#14	1/C	4	DFP004-400AF	DFP004-400PSL	CDFP004-400, CDFP004B-400, CDFP004D-400, CDFP004F-400		
DEMO	DFP	004	C-DFP004-400TS	#14	1/C	2	DFP004-400AF	DFP004-400TS	CDFP004-400, CDFP004A-400, PDFP004A-400		
DEMO	DFP	004	C-DFP004-400AF	#14	19/C	1	DFPU	DFP004-400AF	CDFP-400, CT-9, CDFP004-400AF		
DEMO	DFP	005	P-DFP005-400AF	#8	4/C	1	MCC045-400A	DFP005-400AF	PDFP005B-400AF, PT-5, PT-6, PDFP005A-400AF		
DEMO	DFP	005	P-DFP005-400	#8	1/C	4	DFP005-400AF	DFP005-400MO	PDFP005-400		
DEMO	DFP	005	C-DFP005-400CS2	#14	1/C	4	DFP005-400AF	DFP005-400CS2	CDFP005-400, CDFP005B-400, CDFP005D-400, CDFP005E-400		
DEMO	DFP	005	C-DFP005-400HTR	#14	1/C	2	DFP005-400AF	DFP005-400HTR	CDFP005-400, CDFP005A-400, PDFP005A-400		
DEMO	DFP	005	C-DFP005-400PSH	#14	1/C	4	DFP005-400AF	DFP005-400PSH	CDFP005-400, CDFP005B-400, CDFP005C-400		
DEMO	DFP	005	C-DFP005-400PSL	#14	1/C	4	DFP005-400AF	DFP005-400PSL	CDFP005-400, CDFP005B-400, CDFP005D-400, CDFP005F-400		
DEMO	DFP	005	C-DFP005-400TS	#14	1/C	2	DFP005-400AF	DFP005-400TS	CDFP005-400, CDFP005A-400, PDFP005A-400		
DEMO	DFP	005	C-DFP005-400AF	#14	19/C	1	DFPU	DFP005-400AF	CDFP-400, CT-9, CDFP005-400AF		
DEMO	DFP	006	P-DFP006-400AF	#8	4/C	1	MCC045-400A	DFP006-400AF	PDFP006B-400AF, PT-5, PT-6, PDFP006A-400AF		
DEMO	DFP	006	P-DFP006-400	#8	1/C	4	DFP006-400AF	DFP006-400MO	PDFP006-400		
DEMO	DFP	006	C-DFP006-400CS2	#14	1/C	4	DFP006-400AF	DFP006-400CS2	CDFP006-400, CDFP006B-400, CDFP006D-400, CDFP006E-400		
DEMO	DFP	006	C-DFP006-400HTR	#14	1/C	2	DFP006-400AF	DFP006-400HTR	CDFP006-400, CDFP006A-400, PDFP006A-400		

STATUS	Device Prefix	Device N	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors	Number of Parallel Cables	Equipment From	Equipment To	Via Raceways	Remarks	Remarks Cont.
DEMO	DFP	006	C-DFP006-400PSH	#14	1/C	4	DFP006-400AF	DFP006-400PSH	CDFP006-400, CDFP006B-400, CDFP006C-400		
DEMO	DFP	006	C-DFP006-400PSL	#14	1/C	4	DFP006-400AF	DFP006-400PSL	CDFP006-400, CDFP006B-400, CDFP006D-400, CDFP006F-400		
DEMO	DFP	006	C-DFP006-400TS	#14	1/C	2	DFP006-400AF	DFP006-400TS	CDFP006-400, CDFP006A-400, PDFP006A-400		
DEMO	DFP	006	C-DFP006-400AF	#14	19/C	1	DPU	DFP006-400AF	CDFP-400, CT-9, CDFP006-400AF		
DEMO	DFP	007	P-DFP007-400AF	#8	4/C	1	MCC045-400A	DFP007-400AF	PDFP007B-400AF, PT-5, PT-6, PDFP007A-400AF		
DEMO	DFP	007	P-DFP007-400	#8	1/C	4	DFP007-400AF	DFP007-400MO	PDFP007-400		
DEMO	DFP	007	C-DFP007-400CS2	#14	1/C	4	DFP007-400AF	DFP007-400CS2	CDFP007-400, CDFP007B-400, CDFP007D-400, CDFP007E-400		
DEMO	DFP	007	C-DFP007-400HTR	#14	1/C	2	DFP007-400AF	DFP007-400HTR	CDFP007-400, CDFP007A-400, PDFP007A-400		
DEMO	DFP	007	C-DFP007-400PSH	#14	1/C	4	DFP007-400AF	DFP007-400PSH	CDFP007-400, CDFP007B-400, CDFP007C-400		
DEMO	DFP	007	C-DFP007-400PSL	#14	1/C	4	DFP007-400AF	DFP007-400PSL	CDFP007-400, CDFP007B-400, CDFP007D-400, CDFP007F-400		
DEMO	DFP	007	C-DFP007-400TS	#14	1/C	2	DFP007-400AF	DFP007-400TS	CDFP007-400, CDFP007A-400, PDFP007A-400		
DEMO	DFP	007	C-DFP007-400AF	#14	19/C	1	DPU	DFP007-400AF	CDFP-400, CT-9, CDFP007-400AF		
DEMO	DFP	008	P-DFP008-400AF	#8	4/C	1	MCC045-400A	DFP008-400AF	PDFP008B-400AF, PT-5, PT-6, PDFP008A-400AF		
DEMO	DFP	008	P-DFP008-400	#8	1/C	4	DFP008-400AF	DFP008-400MO	PDFP008-400		
DEMO	DFP	008	C-DFP008-400CS2	#14	1/C	4	DFP008-400AF	DFP008-400CS2	CDFP008-400, CDFP008B-400, CDFP008D-400, CDFP008E-400		
DEMO	DFP	008	C-DFP008-400HTR	#14	1/C	2	DFP008-400AF	DFP008-400HTR	CDFP008-400, CDFP008A-400, PDFP008A-400		
DEMO	DFP	008	C-DFP008-400PSH	#14	1/C	4	DFP008-400AF	DFP008-400PSH	CDFP008-400, CDFP008B-400, CDFP008C-400		
DEMO	DFP	008	C-DFP008-400PSL	#14	1/C	4	DFP008-400AF	DFP008-400PSL	CDFP008-400, CDFP008B-400, CDFP008D-400, CDFP008F-400		
DEMO	DFP	008	C-DFP008-400TS	#14	1/C	2	DFP008-400AF	DFP008-400TS	CDFP008-400, CDFP008A-400, PDFP008A-400		
DEMO	DFP	008	C-DFP008-400AF	#14	19/C	1	DPU	DFP008-400AF	CDFP-400, CT-9, CDFP008-400AF		
DEMO	GDF	001	P-GDF001-400CP	#12	1/C	4	MCC045-400A	GDF001-400CP	PGDF001-400		
DEMO	GDF	001	P-GDF001-400	#12	1/C	4	GDF001-400CP	GDF001-400MO	PGDF001A-400		
DEMO	GDF	001	C-GDF001-400	#14	1/C	4	CGDF001-400CP	CGDF001-400CS2	CGDF001-400		
DEMO	GDF	001	C-GDF001-400CPJB	#14	1/C	12	DPU	CGDF001-400CPJB	C011-400, C001-400		
DEMO	GDF	002	P-GDF002-400CP	#12	1/C	4	MCC045-400B	GDF002-400CP	PGDF002-400		
DEMO	GDF	002	P-GDF002-400	#12	1/C	4	GDF002-400CP	GDF002-400MO	PGDF002A-400		
DEMO	GDF	002	C-GDF002-400	#14	1/C	4	CGDF002-400CP	CGDF002-400CS2	CGDF002-400		
DEMO	GDF	002	C-GDF002-400CP	#14	1/C	12	DPU	CGDF002-400CP	C011-400, C010-400, C002-400		
DEMO	GDF	003	P-GDF003-400CP	#12	1/C	4	MCC045-400A	GDF003-400CP	PGDF003-400		
DEMO	GDF	003	P-GDF003-400	#12	1/C	4	GDF003-400CP	GDF003-400MO	PGDF003A-400		
DEMO	GDF	003	C-GDF003-400	#14	1/C	4	CGDF003-400CP	CGDF003-400CS2	CGDF003-400		
DEMO	GDF	003	C-GDF003-400CP	#14	1/C	12	DPU	CGDF003-400CP	C011-400, C010-400, C009-400, C003-400		
DEMO	GDF	004	P-GDF004-400CP	#12	1/C	4	MCC045-400B	GDF004-400CP	PGDF004-400		
DEMO	GDF	004	P-GDF004-400	#12	1/C	4	GDF004-400CP	GDF004-400MO	PGDF004A-400		
DEMO	GDF	004	C-GDF004-400	#14	1/C	4	CGDF004-400CP	CGDF004-400CS2	CGDF004-400		
DEMO	GDF	004	C-GDF004-400CP	#14	1/C	12	DPU	CGDF004-400CP	C011-400, C010-400, C009-400, C004-400		
DEMO	GDF	005	P-GDF005-400CP	#12	1/C	4	MCC046-400A	GDF005-400CP	PGDF005-400		
DEMO	GDF	005	P-GDF005-400	#12	1/C	4	GDF005-400CP	GDF005-400MO	PGDF005A-400		
DEMO	GDF	005	C-GDF005-400	#14	1/C	4	CGDF005-400CP	CGDF005-400CS2	CGDF005-400		
DEMO	GDF	005	C-GDF005-400CP	#14	1/C	12	DPU	CGDF005-400CP	C014-400, C005-400		
DEMO	GDF	006	P-GDF006-400CP	#12	1/C	4	MCC045-400B	GDF006-400CP	PGDF006-400		
DEMO	GDF	006	P-GDF006-400	#12	1/C	4	GDF006-400CP	GDF006-400MO	PGDF006A-400		
DEMO	GDF	006	C-GDF006-400	#14	1/C	4	CGDF006-400CP	CGDF006-400CS2	CGDF006-400		
DEMO	GDF	006	C-GDF006-400CP	#14	1/C	12	DPU	CGDF006-400CP	C014-400, C013-400, C006-400		
DEMO	GDF	007	P-GDF007-400CP	#12	1/C	4	MCC045-400A	GDF007-400CP	PGDF007-400		
DEMO	GDF	007	P-GDF007-400	#12	1/C	4	GDF007-400CP	GDF007-400MO	PGDF007A-400		
DEMO	GDF	007	C-GDF007-400	#14	1/C	4	CGDF007-400CP	CGDF007-400CS2	CGDF007-400		

STATUS	Device Prefix	Device N	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors	Number of Parallel Cables	Equipment From	Equipment To	Via Raceways	Remarks	Remarks Cont.
DEMO	GDF	007	C-GDF007-400CP	#14	1/C	12	DPU	GDF007-400CP	CD14-400, CD13-400, CD12-400, CD07-400		
DEMO	GDF	008	P-GDF008-400CP	#12	1/C	4	MCC046-400B	GDF008-400CP	PGDF008-400		
DEMO	GDF	008	P-GDF008-400	#12	1/C	4	GDF008-400CP	GDF008-400MO	PGDF008A-400		
DEMO	GDF	008	C-GDF008-400	#14	1/C	4	CGDF008-400CP	CGDF008-400CS2	CGDF008-400		
DEMO	GDF	008	C-GDF008-400CP	#14	1/C	12	DPU	CGDF008-400CP	CD14-400, CD13-400, CD12-400, CD08-400		
DEMO	GPS	001	P-GPS001-400	#12	1/C & 1G	1	MCC045-400A	GPS001-400CP	PGPS001C-400, PT-14, PGPS001-400	Primary Sludge Grinder No 1	
DEMO	GPS	001	C-GPS001-400CP	#14	12/C	1	GPS001-400CP	DPU	CGPS-400, CT-1A, CGPS001-400		
DEMO	GPS	001	C-GPS001-400CS2	#14	1/C	4	GPS001-400CP	GPS001-400CS2	CGPS001A-400, CGPS001C-400		
DEMO	GPS	001	C-GPS001-400	#14	1/C	2	GPS001-400CP	GPS001-400MO	CGPS001A-400, CGPS001B-400, PGPS001B-400		
DEMO	GPS	002	P-GPS002-400	#12	1/C & 1G	1	MCC046-400B	GPS002-400CP	PGPS002C-400, PT-14, PGPS002-400	Primary Sludge Grinder No 2	
DEMO	GPS	002	C-GPS002-400CP	#14	12/C	1	GPS002-400CP	DPU	CGPS-400, CT-1A, CGPS002-400		
DEMO	GPS	002	C-GPS002-400CS2	#14	1/C	4	GPS002-400CP	GPS002-400CS2	CGPS002A-400, CGPS002C-400		
DEMO	GPS	002	C-GPS002-400	#14	1/C	2	GPS002-400CP	GPS002-400MO	CGPS002A-400, CGPS002B-400, PGPS002B-400		
DEMO	GPS	004	P-GPS004-400	#12	1/C & 1G	1	MCC045-400A	GPS004-400CP	PGPS004C-400, PT-14, PGPS004-400	Primary Sludge Grinder No 3	
DEMO	GPS	004	C-GPS004-400CP	#14	12/C	1	GPS004-400CP	DPU	CGPS-400, CT-1A, CGPS004-400		
DEMO	GPS	004	C-GPS004-400CS2	#14	1/C	4	GPS004-400CP	GPS004-400CS2	CGPS004A-400, CGPS004C-400		
DEMO	GPS	004	C-GPS004-400	#14	1/C	2	GPS004-400CP	GPS004-400MO	CGPS004A-400, CGPS004B-400, PGPS004B-400		
DEMO	GWS	001	P-GWS001-400	#12	4/C	1	MCC046-400A	GWS001-400CP	PGWS001C-400, PT-14, PGWS001-400	Mix Room Grinder No 1 (Waste Sludge Grinder No 1)	
DEMO	GWS	001	C-GWS001-400HTR	#14	1/C	2	GWS001-400CP	GWS001-400HTR	CGWS001A-400, CGWS001B-400, PGWS001B-400	Mix Room Grinder No 1 (Waste Sludge Grinder No 1)	
DEMO	GWS	001	P-GWS001A-400	#12	1/C	4	GWS001-400CP	GWS001-400MO	PGWS001A-400, PGWS001B-400	Mix Room Grinder No 1 (Waste Sludge Grinder No 1)	
DEMO	GWS	001	C-GWS001-400CP	#14	10/C	1	DPU	GWS001-400CP	CGWS-400, CT-1A, CGWS001A-400, CGWS001-400		
DEMO	GWS	001	C-GWS001-400CS2	#14	1/C	4	GWS001-400CP	GWS001-400CS2	CGWS001A-400, CGWS001C-400		
DEMO	GWS	002	P-GWS002-400	#12	4/C	1	MCC046-400B	GWS002-400CP	PGWS002C-400, PT-14, PGWS002-400	Mix Room Grinder No 2 (Waste Sludge Grinder No 2)	
DEMO	GWS	002	C-GWS002-400HTR	#14	1/C	2	GWS002-400CP	GWS002-400HTR	CGWS002A-400, CGWS002B-400, PGWS002B-400	Mix Room Grinder No 2 (Waste Sludge Grinder No 2)	
DEMO	GWS	002	P-GWS002A-400	#12	1/C	4	GWS002-400CP	GWS002-400MO	PGWS002A-400, PGWS002B-400	Mix Room Grinder No 2 (Waste Sludge Grinder No 2)	
DEMO	GWS	002	C-GWS002-400CP	#14	10/C	1	DPU	GWS002-400CP	CGWS-400, CT-1A, CGWS002A-400, CGWS002-400		
DEMO	GWS	002	C-GWS002-400CS2	#14	1/C	4	GWS002-400CP	GWS002-400CS2	CGWS002A-400, CGWS002C-400		
DEMO	GWS	003	P-GWS003-400	#12	4/C	1	MCC046-400A	GWS003-400CP	PGWS003C-400, PT-14, PGWS003-400	Mix Room Grinder No 3 (Waste Sludge Grinder No 3)	
DEMO	GWS	003	C-GWS003-400HTR	#14	1/C	2	GWS003-400CP	GWS003-400HTR	CGWS003A-400, CGWS003B-400, PGWS003B-400	Mix Room Grinder No 3 (Waste Sludge Grinder No 3)	
DEMO	GWS	003	P-GWS003A-400	#12	1/C	4	GWS003-400CP	GWS003-400MO	PGWS003A-400, PGWS003B-400	Mix Room Grinder No 3 (Waste Sludge Grinder No 3)	
DEMO	GWS	003	C-GWS003-400CP	#14	10/C	1	DPU	GWS003-400CP	CGWS-400, CT-1A, CGWS003A-400, CGWS003-400		
DEMO	GWS	003	C-GWS003-400CS2	#14	1/C	4	GWS003-400CP	GWS003-400CS2	CGWS003A-400, CGWS003C-400		
DEMO	GWS	004	P-GWS004-400	#12	4/C	1	MCC046-400B	GWS004-400CP	GWS004C-400, PT-14, PGWS004-400	Mix Room Grinder No 4 (Waste Sludge Grinder No 4)	
DEMO	GWS	004	C-GWS004-400HTR	#14	1/C	2	GWS004-400CP	GWS004-400HTR	CGWS004A-400, CGWS004B-400, PGWS004B-400	Mix Room Grinder No 4 (Waste Sludge Grinder No 4)	
DEMO	GWS	004	P-GWS004A-400	#12	1/C	4	GWS004-400CP	GWS004-400MO	PGWS002A-400, PGWS004B-400	Mix Room Grinder No 4 (Waste Sludge Grinder No 4)	
DEMO	GWS	004	C-GWS004-400CP	#14	10/C	1	DPU	GWS004-400CP	CGWS-400, CT-1A, CGWS004A-400, CGWS004-400		
DEMO	GWS	004	C-GWS004-400CS2	#14	1/C	4	GWS004-400CP	GWS004-400CS2	CGWS003A-400, CGWS003C-400		
DEMO	HSC	001	P-HSC001B-400CP	500&#2	3C&G	1	USS015-400	HSC001-400CP	PHSC001M-400, PT-10, PHSC001B-400		
DEMO	HSC	001	P-HSC001A-400	500&#2	3C&G	1	HSC001-400CP	HSC001-400MO	PHSC001D-400, PT-1, PHSC001H-400		
DEMO	HSC	001	J-HSC001C-400				HSC001-400CP	HSC002-400CP			
DEMO	HSC	001	P-HSC001-400CP				HSC001-400CP	IPP001-400			
DEMO	HSC	001	C-HSC001B-400CPB				HSC001-400CP	HSC001-400CP1	CHSC001A-400, CT-3, XXX		
DEMO	HSC	001	C-HSC001B-400CPC				HSC001-400CP	HSC001-400CP1	CHSC001A-400, CT-3, XXX		
DEMO	HSC	001	C-HSC001B-400CPA				HSC001-400CP	HSC001-400CP1	CHSC001A-400, CT-3, XXX		
DEMO	HSC	001	C-HSC001C-400CP	#14	37/C	1	HSC001-400CP	DPU032-400	CHSC001B-400, CT-1		
DEMO	HSC	001	C-HSC001A-400CP	#14	25/C		HSC001-400CP	HSC001-400X4	CHSC001A-400, CT-3, XXX, HSC001-400X4		

STATUS	Device Prefix	Device N	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors	Number of Parallel Cables	Equipment From	Equipment To	Via Raceways	Remarks	Remarks Cont.
DEMO	HSC	001	C-HSC001B-400CPD				HSC001-400CP	HSC001-400CP1	CHSC001A-400, CT-3, XXX		
DEMO	HSC	001	I-HSC001B-400CP				HSC001-400CP	DPU032-400	CHSC001B-400, CT-1		
DEMO	HSC	001	I-HSC000D-400				HSC001-400CP1	HSC003-400CP	XXXX, CT-3, XXXX		
DEMO	HSC	001	I-HSC001D-400				HSC001-400CP1	HSC001-400CP1	XXXX, CT-3, XXXX		
DEMO	HSC	001	P-HSC001-400LP				HSC001-400CP	HSC001-400LP		CENTRIFUGE #2 LUBE PUMP	
DEMO	HSC	001	P-HSC001-400IP				HSC001-400CP1	HSC001-400IP			
DEMO	HSC	001	C-HSC001-400CP	#14	12/C	1	HSC001-400IP	DPU032-400	XXXX, CT-3, CT-1, XXXX		
DEMO	HSC	001	I-HSC001-400IP				HSC001-400IP	DPU032-400	XXXX, CT-3, CT-1, XXXX		
DEMO	HSC	001	C-SOVOXX-400	#12	3/C	1	HSC001-400X4A	SOVOXX-400	(CONTINUED FROM CABLE C-HSC001A-400CP), HSC001-400X4A, FLEX		CENTRIFUGE FLUSH WA
DEMO	HSC	001	C-SOVOXX-400	#12	3/C	1	HSC001-400X4A	SOVOXX-400	(CONTINUED FROM CABLE C-HSC001A-400CP), HSC001-400X4A, FLEX	NOT IN EXISTING CABLE LIST	CLUTCH WATER SOLENO
DEMO	HSC	001	C-FSL001-1010	#14	3/C	1	HSC001-400X4A	FSL001-1010	(CONTINUED FROM CABLE C-HSC001A-400CP), HSC001-400X4A, FLEX		
DEMO	HSC	001	I-TE001-1236	#16	Tw Sh PR	1	HSC001-400X4	TE001-1236	FLEX CONDUIT TO DEVICE	NOT IN EXISTING CABLE LIST	BEARING TEMP LIQUID
DEMO	HSC	001	I-TE001-1240	#16	Tw Sh PR	1	HSC001-400X7	TE001-1240	FLEX CONDUIT TO DEVICE	NOT IN EXISTING CABLE LIST	BEARING TEMP SOLID T
DEMO	HSC	001	I-TE001-1506	#16	Tw Sh PR	1	HSC001-400X7	TE001-1506	FLEX CONDUIT TO DEVICE	NOT IN EXISTING CABLE LIST	CROSS SHAFT MOTOR T
DEMO	HSC	001	I-TE001-1510	#16	Tw Sh PR	1	HSC001-400X7	TE001-1510	FLEX CONDUIT TO DEVICE	NOT IN EXISTING CABLE LIST	CROSS SHAFT PULLEY E
DEMO	HSC	001	I-HSC001-400CP	#16	Tw Sh PR	4	HSC001A-400	XXX	IHSC001A-400, XXX		
DEMO	HSC	001	I-HSC001A-400CP	#16	Tw Sh PR	7	HSC001A-400	XXX	IHSC001A-400, XXX		
DEMO	HSC	001	P-HSC001-400IP	#14	3/C	1	HSC001-400CP1	HSC001-400IP	INTERNAL77 BETWEEN ADJACENT PANELS		
DEMO	HSC	001	P-HSC001-400C	#14	3/C	1	HSC001-400CP1	HSC001-400IBB			
DEMO	HSC	001	P-HSC001-400D	#14	3/C	1	HSC001-400CP1	HSC001-400IBA			
DEMO	HSC	001	C-SOVOXX-400	#14	3/C	1	HSC001-400CP1	SOVOXX-400		DIAGRAM DISAGREE ON SOVO28 OR 29	
DEMO	HSC	001	P-HSC001B-400	#14	7/C	1	HSC001-400LCP	HSC001-400X4	P3050, P3048		
DEMO	HSC	002	P-HSC002A-400CP	500&#2	3C&G	1	LSS015-400	HSC002-400CP	PHSC002L-400, PT-10, PHSC002A-400	Centrifuge #2	
DEMO	HSC	002	P-HSC002B-400CP	500&#2	3C&G	1	LSS015-400	HSC002-400CP	PHSC002M-400, PT-10, PHSC002B-400	Centrifuge #2	
DEMO	HSC	002	P-HSC002I-400	500&#2	3C&G	1	HSC002-400CP	HSC002-400MO	PHSC002C-400, PT-1, PHSC002G-400	Centrifuge #2	
DEMO	HSC	002	P-HSC002A-400	500&#2	3C&G	1	HSC002-400CP	HSC002-400MO	PHSC002D-400, PT-1, PHSC002H-400	Centrifuge #2	
DEMO	HSC	002	I-HSC002-400CP	#16	12/C	1	HSC002-400CP	HSC002-400X4	IHSC002A-400, I1001-400, I1004-400, I3066-400, I3059-400, I3062-400, I3063-400		
DEMO	HSC	002	I-HSC002A-400CP	#16	4/C SHLD	1	HSC002-400CP	HSC002-400X7	IHSC002A-400, I1001-400, I1004-400, I3066-400, I3059-400, I3062-400, I3061-400		
DEMO	HSC	002	I-HSC002-400IB	#16	3/C SHLD	6	HSC002-400CP	HSC002-400IB	IHSC002A-400, I1001-400, I1004-400, I3066-400, I3059-400, I3062-400, I3061-400, I3118-400		
DEMO	HSC	002	I-HSC002B-400	#16	2/C SHLD	6	HSC002-400CP	HSC002-400CP1	IHSC002A-400, I1001-400, I1004-400, I3066-400, I3059-400, I3058-400		
DEMO	HSC	002	I-HSC002-400V5	#16	2/C SHLD	6	FHSC002-400VIT	HSC002-400V5	FLEX		
DEMO	HSC	002	I-F400HSC002AFIT	#16	2/C SHLD	1	DPU	F400HSC002AFIT	I1005-400, I1004-400, I3066-400, I3046-400, I3059-400, I3064-400		
DEMO	HSC	002	P-HSC002-400CP				HSC002-400CP	IPP001-400			
DEMO	HSC	002	C-HSC002B-400CPB				HSC002-400CP	HSC002-400CP1	CHSC002A-400, CT-3, P3041-400		
DEMO	HSC	002	C-HSC002B-400CPC				HSC002-400CP	HSC002-400CP1	CHSC002A-400, CT-3, P3041-400		
DEMO	HSC	002	C-HSC002B-400CPA				HSC002-400CP	HSC002-400CP1	CHSC002A-400, CT-3, P3041-400		
DEMO	HSC	002	C-HSC002C-400CP	#14	37/C	1	HSC002-400CP	DPU032-400	CHSC002B-400, CT-1		
DEMO	HSC	002	C-HSC002A-400CP	#14	25/C		HSC002-400CP	HSC002-400X4	CHSC002A-400, CT-3, P3041-400, HSC002-400X4		
DEMO	HSC	002	C-HSC002B-400CPD				HSC002-400CP	HSC002-400CP1	CHSC002A-400, CT-3, P3041-400		
DEMO	HSC	002	I-HSC002B-400CP				HSC002-400CP	DPU032-400	CHSC002B-400, CT-1		
DEMO	HSC	002	I-HSC000D-400				HSC002-400CP1	HSC003-400CP	XXXX, CT-3, XXXX		
DEMO	HSC	002	I-HSC002D-400				HSC002-400CP1	HSC002-400CP1	XXXX, CT-3, XXXX		
DEMO	HSC	002	P-HSC002-400LP				HSC002-400CP	HSC002-400LP		CENTRIFUGE #2 LUBE PUMP	
DEMO	HSC	002	I-HSC002C-400				HSC002-400CP	HSC003-400CP			
DEMO	HSC	002	P-HSC002-400IP				HSC002-400CP1	HSC002-400IP			
DEMO	HSC	002	C-HSC002-400CP	#14	12/C	1	HSC002-400IP	DPU032-400	XXXX, CT-3, CT-1, XXXX		

STATUS	Device Prefix	Device N	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors	Number of Parallel Cables	Equipment From	Equipment To	Via Raceways	Remarks	Remarks Cont.
DEMO	HSC	002	I-HSC002-400IP				HSC002-400IP	DPU032-400	XXXX, CT-3, CT-1, XXXX		
DEMO	HSC	002	C-SOVO22-400	#12	3/C	1	HSC002-400X4A	SOVO22-400	(CONTINUED FROM CABLE C-HSC002A-400CP), HSC002-400X4A, FLEX		CENTRIFUGE FLUSH W
DEMO	HSC	002	C-SOVO36-400	#12	3/C	1	HSC002-400X4A	SOVO36-400	(CONTINUED FROM CABLE C-HSC002A-400CP), HSC002-400X4A, FLEX	NOT IN EXISTING CABLE LIST	CLUTCH WATER SOLEN
DEMO	HSC	002	C-FSL002-1010	#14	3/C	1	HSC002-400X4A	FSL002-1010	(CONTINUED FROM CABLE C-HSC002A-400CP), HSC002-400X4A, FLEX		
DEMO	HSC	002	I-TE002-1236	#16	Tw Sh PR	1	HSC002-400X4	TE002-1236	FLEX CONDUIT TO DEVICE	NOT IN EXISTING CABLE LIST	BEARING TEMP LIQUID
DEMO	HSC	002	I-TE002-1240	#16	Tw Sh PR	1	HSC002-400X7	TE002-1240	FLEX CONDUIT TO DEVICE	NOT IN EXISTING CABLE LIST	BEARING TEMP SOLID T
DEMO	HSC	002	I-TE002-1506	#16	Tw Sh PR	1	HSC002-400X7	TE002-1506	FLEX CONDUIT TO DEVICE	NOT IN EXISTING CABLE LIST	CROSS SHAFT MOTOR T
DEMO	HSC	002	I-TE002-1510	#16	Tw Sh PR	1	HSC002-400X7	TE002-1510	FLEX CONDUIT TO DEVICE	NOT IN EXISTING CABLE LIST	CROSS SHAFT PULLEY E
DEMO	HSC	002	I-HSC002-400CP	#16	Tw Sh PR	4	HSC002A-400	I1004-400	(HSC002A-400, I1001-400, I3066-400, I3059-400, I3062-400, I3063-400		
DEMO	HSC	002	I-HSC002A-400CP	#16	Tw Sh PR	7	HSC002A-400	I1004-400	(HSC002A-400, I1004-400, I3066-400, I3059-400, I3062-400, I3061-400		
DEMO	HSC	002	P-HSC002-400IP	#14	3/C	1	HSC002-400CP1	HSC002-400IP	(INTERNAL?? BETWEEN ADJACENT PANELS		
DEMO	HSC	002	P-HSC002-400C	#14	3/C	1	HSC002-400CP1	HSC002-400IBB			
DEMO	HSC	002	P-HSC002-400D	#14	3/C	1	HSC002-400CP1	HSC002-400IBA			
DEMO	HSC	002	C-SOVO28-400	#14	3/C	1	HSC002-400CP1	SOVO28-400		DIAGRAM DISAGREE ON SOVO28 OR 29	
DEMO	HSC	002									
DEMO	HSC	002	C-HSC002-400LCP	#14	19/C	1	HSC002-400LCP	HSC002-400CP	C3023-400		
DEMO	HSC	003	P-HSC003A-400CP	500&#2	3C&G	1	LSS015-400	HSC003-400CP	PHSC003L-400, PT-10, PHSC003A-400	Centrifuge #3	
DEMO	HSC	003	P-HSC003B-400CP	500&#2	3C&G	1	LSS015-400	HSC003-400CP	PHSC003M-400, PT-10, PHSC003B-400	Centrifuge #3	
DEMO	HSC	003	P-HSC003-400	500&#2	3C&G	1	HSC003-400CP	HSC003-400MO	PHSC003C-400, PT-1, PT-2, PHSC003G-400	Centrifuge #3	
DEMO	HSC	003	P-HSC003A-400	500&#2	3C&G	1	HSC003-400CP	HSC003-400MO	PHSC003D-400, PT-1, PT-2, PHSC003H-400	Centrifuge #3	
DEMO	HSC	003	I-HSC003-400CP	#16	12/C	1	HSC003-400CP	HSC003-400X4	(HSC003A-400, I3026-400, I3025-400, I3125-400, I3045-400, I3051-400, I3049-400, I3054-400		
DEMO	HSC	003	I-HSC003A-400CP	#16	4/C SHLD	1	HSC003-400CP	HSC003-400X7	(HSC003A-400, I1004-400, I3066-400, I3046-400, I3045-400, I3051-400, I3049-400, I3053-400		
DEMO	HSC	003	I-HSC003-400JB	#16	3/C SHLD	6	HSC003-400CP	HSC003-400JB	(HSC003A-400, I3026-400, I3025-400, I3125-400, I3045-400, I3051-400, I3049-400, I3053-400, I3119-400		
DEMO	HSC	003	I-HSC003B-400	#16	2/C SHLD	6	HSC003-400CP	HSC003-400CP1	(HSC003A-400, I3026-400, I3025-400, I3125-400, I3045-400, I3051-400, I3049-400, I3053-400		
DEMO	HSC	003	I-HSC003-400VS	#16	2/C SHLD	6	FHSC003-400VIT	HSC003-400VS	FLEX		
DEMO	HSC	003	I-F400HSC003AFIT	#16	2/C SHLD	1	DPU	F400HSC003AFIT	(1005-400, I1004-400, I3066-400, I3046-400, I3051-400, I3049-400, I3055-400		
DEMO	HSC	003	I-HSC003C-400				HSC003-400CP	HSC004-400CP			
DEMO	HSC	003	P-HSC003-400CP				HSC003-400CP	IPR003-400			
DEMO	HSC	003	C-HSC003B-400CPB				HSC003-400CP	HSC003-400CP1	CHSC003A-400, CT-3, XXX		
DEMO	HSC	003	C-HSC003B-400CPC				HSC003-400CP	HSC003-400CP1	CHSC003A-400, CT-3, XXX		
DEMO	HSC	003	C-HSC003B-400CPA				HSC003-400CP	HSC003-400CP1	CHSC003A-400, CT-3, XXX		
DEMO	HSC	003	C-HSC003C-400CP	#14	37/C	1	HSC003-400CP	DPU032-400	CHSC003B-400, CT-1		
DEMO	HSC	003	C-HSC003A-400CP	#14	25/C		HSC003-400CP	HSC003-400X4	CHSC003A-400, CT-3, XXX, HSC003-400X4		
DEMO	HSC	003	C-HSC003B-400CPD				HSC003-400CP	HSC003-400CP1	CHSC003A-400, CT-3, XXX		
DEMO	HSC	003	I-HSC003B-400CP				HSC003-400CP	DPU032-400	CHSC003B-400, CT-1		
DEMO	HSC	003	I-HSC0000-400				HSC003-400CP1	HSC003-400CP	XXXX, CT-3, XXXX		
DEMO	HSC	003	I-HSC003D-400				HSC003-400CP1	HSC003-400CP1	XXXX, CT-3, XXXX		
DEMO	HSC	003	P-HSC003-400LP				HSC003-400CP	HSC003-400LP		CENTRIFUGE #2 LUBE PUMP	
DEMO	HSC	003	P-HSC003-400IP				HSC003-400CP1	HSC003-400IP			
DEMO	HSC	003	C-HSC003-400CP	#14	12/C	1	HSC003-400IP	DPU032-400	XXXX, CT-3, CT-1, XXXX		
DEMO	HSC	003	I-HSC003-400IP				HSC003-400IP	DPU032-400	XXXX, CT-3, CT-1, XXXX		
DEMO	HSC	003	C-SOVOXX-400	#12	3/C	1	HSC003-400X4A	SOVOXX-400	(CONTINUED FROM CABLE C-HSC003A-400CP), HSC003-400X4A, FLEX		CENTRIFUGE FLUSH W
DEMO	HSC	003	C-SOVOXX-400	#12	3/C	1	HSC003-400X4A	SOVOXX-400	(CONTINUED FROM CABLE C-HSC003A-400CP), HSC003-400X4A, FLEX	NOT IN EXISTING CABLE LIST	CLUTCH WATER SOLEN
DEMO	HSC	003	C-FSL003-1010	#14	3/C	1	HSC003-400X4A	FSL003-1010	(CONTINUED FROM CABLE C-HSC003A-400CP), HSC003-400X4A, FLEX		
DEMO	HSC	003	I-TE003-1236	#16	Tw Sh PR	1	HSC003-400X4	TE003-1236	FLEX CONDUIT TO DEVICE	NOT IN EXISTING CABLE LIST	BEARING TEMP LIQUID
DEMO	HSC	003	I-TE003-1240	#16	Tw Sh PR	1	HSC003-400X7	TE003-1240	FLEX CONDUIT TO DEVICE	NOT IN EXISTING CABLE LIST	BEARING TEMP SOLID T

STATUS	Device Prefix	Device N	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors	Number of Parallel Cables	Equipment From	Equipment To	Via Raceways	Remarks	Remarks Cont.
DEMO	HSC	003	:-TE003-1506	#16	Tw Sh PR	1	HSC003-400X7	TE003-1506	FLEX CONDUIT TO DEVICE	NOT IN EXISTING CABLE LIST	CROSS SHAFT MOTOR I
DEMO	HSC	003	:-TE003-1510	#16	Tw Sh PR	1	HSC003-400X7	TE003-1510	FLEX CONDUIT TO DEVICE	NOT IN EXISTING CABLE LIST	CROSS SHAFT PULLEY E
DEMO	HSC	003	:I-HSC003-400CP	#16	Tw Sh PR	4	HSC003A-400	XXX	IHSC003A-400, XXX		
DEMO	HSC	003	:-HSC003A-400CP	#16	Tw Sh PR	7	HSC003A-400	XXX	IHSC003A-400, XXX		
DEMO	HSC	003	P-HSC003-400IP	#14	3/C	1	HSC003-400CP1	HSC003-400IP	:INTERNAL?? BETWEEN ADJACENT PANELS		
DEMO	HSC	003	P-HSC003-400C	#14	3/C	1	HSC003-400CP1	HSC003-400JBB			
DEMO	HSC	003	P-HSC003-400D	#14	3/C	1	HSC003-400CP1	HSC003-400JBA			
DEMO	HSC	003	C-SOVOXX-400	#14	3/C	1	HSC003-400CP1	SOVOXX-400		DIAGRAM DISAGREE ON SOVO28 OR 29	
DEMO	HSC	003	C-HSC003-400LCP	#14	19/C	1	HSC003-400LCP	HSC003-400CP	CS022-400		
DEMO	HSC	004	P-HSC004A-400CP	500&#2	3C&G	1	LSS0015-400	HSC004-400CP	PHSC004L-400, PT-10, PHSC004A-400	Centrifuge #4	
DEMO	HSC	004	P-HSC004B-400CP	500&#2	3C&G	1	LSS0015-400	HSC004-400CP	PHSC004M-400, PT-10, PHSC004B-400	Centrifuge #4	
DEMO	HSC	004	P-HSC004-400	500&#2	3C&G	1	HSC004-400CP	HSC004-400MO	PHSC004C-400, PT-1, PT-2,PHSC004G-400	Centrifuge #4	
DEMO	HSC	004	P-HSC004A-400	500&#2	3C&G	1	HSC004-400CP	HSC004-400MO	PHSC004D-400, PT-1, PT-2,PHSC004H-400	Centrifuge #4	
DEMO	HSC	004	I-HSC004-400CP	#16	12/C	1	HSC004-400CP	HSC004-400X4	IHSC004A-400, I3026-400, I3025-400, I3125-400, I3045-400, I3044-400, I3038-400, I3039-400, I3041-400		
DEMO	HSC	004	:-HSC004A-400CP	#16	4/C SHLD	1	HSC004-400CP	HSC004-400X7	IHSC004A-400, I3026-400, I3025-400, I3125-400, I3045-400, I3044-400, I3038-400, I3039-400, I3040-400		
DEMO	HSC	004	:-HSC004-400JB	#16	3/C SHLD	6	HSC004-400CP	HSC004-400JB	IHSC004A-400, I3026-400, I3025-400, I3125-400, I3045-400, I3044-400, I3038-400, I3039-400, I3040-400, I3120-400		
DEMO	HSC	004	:-HSC004B-400	#16	2/C SHLD	6	HSC004-400CP	HSC004-400CP1	IHSC004A-400, I3026-400, I3025-400, I3125-400, I3045-400, I3044-400, I3038-400, I3037-400		
DEMO	HSC	004	:-HSC004-400V5	#16	2/C SHLD	6	FHSC004-400VIT	HSC004-400V5	FLEX		
DEMO	HSC	004	:-F400HSC004AFIT	#16	2/C SHLD	1	DPU	F400HSC004AFIT	I1005-400, I1004-400, I3066-400, I3046-400, I3045-400, I3044-400, I3038-400, I3039-400, I3042-400		
DEMO	HSC	004	I-HSC004C-400				HSC004-400CP	HSC005-400CP			
DEMO	HSC	004	P-HSC004-400CP				HSC004-400CP	IPP004-400			
DEMO	HSC	004	C-HSC004B-400CPB				HSC004-400CP	HSC004-400CP1	CHSC004A-400, CT-3, XXX		
DEMO	HSC	004	C-HSC004B-400CPC				HSC004-400CP	HSC004-400CP1	CHSC004A-400, CT-3, XXX		
DEMO	HSC	004	C-HSC004B-400CPA				HSC004-400CP	HSC004-400CP1	CHSC004A-400, CT-3, XXX		
DEMO	HSC	004	C-HSC004C-400CP	#14	27/C	1	HSC004-400CP	DPU032-400	CHSC004B-400, CT-1		
DEMO	HSC	004	C-HSC004A-400CP	#14	25/C		HSC004-400CP	HSC004-400X4	CHSC004A-400, CT-3, XXX, HSC004-400X4		
DEMO	HSC	004	C-HSC004B-400CPD				HSC004-400CP	HSC004-400CP1	CHSC004A-400, CT-3, XXX		
DEMO	HSC	004	I-HSC004B-400CP				HSC004-400CP	DPU032-400	CHSC004B-400, CT-1		
DEMO	HSC	004	:-HSC000D-400				HSC004-400CP1	HSC003-400CP	XXXX, CT-3, XXXX		
DEMO	HSC	004	I-HSC004D-400				HSC004-400CP1	HSC004-400CP1	XXXX, CT-3, XXXX		
DEMO	HSC	004	P-HSC004-400LP				HSC004-400CP	HSC004-400LP		CENTRIFUGE #2 LUBE PUMP	
DEMO	HSC	004	P-HSC004-400IP				HSC004-400CP1	HSC004-400IP			
DEMO	HSC	004	C-HSC004-400CP	#14	12/C	1	HSC004-400IP	DPU032-400	XXXX, CT-3, CT-1, XXXX		
DEMO	HSC	004	I-HSC004-400IP				HSC004-400IP	DPU032-400	XXXX, CT-3, CT-1, XXXX		
DEMO	HSC	004	C-SOVOXX-400	#12	3/C	1	HSC004-400X4A	SOVOXX-400	:CONTINUED FROM CABLE C-HSC004A-400CP), HSC004-400X4A, FLEX		CENTRIFUGE FLUSH W/
DEMO	HSC	004	C-SOVOXX-400	#12	3/C	1	HSC004-400X4A	SOVOXX-400	:CONTINUED FROM CABLE C-HSC004A-400CP), HSC004-400X4A, FLEX	NOT IN EXISTING CABLE LIST	CLUTCH WATER SOLEN
DEMO	HSC	004	C-FSL004-1010	#14	3/C	1	HSC004-400X4A	FSL004-1010	:CONTINUED FROM CABLE C-HSC004A-400CP), HSC004-400X4A, FLEX		
DEMO	HSC	004	:-TE004-1236	#16	Tw Sh PR	1	HSC004-400X4	TE004-1236	FLEX CONDUIT TO DEVICE	NOT IN EXISTING CABLE LIST	BEARING TEMP LIQUID
DEMO	HSC	004	:-TE004-1240	#16	Tw Sh PR	1	HSC004-400X7	TE004-1240	FLEX CONDUIT TO DEVICE	NOT IN EXISTING CABLE LIST	BEARING TEMP SOLID '
DEMO	HSC	004	:-TE004-1506	#16	Tw Sh PR	1	HSC004-400X7	TE004-1506	FLEX CONDUIT TO DEVICE	NOT IN EXISTING CABLE LIST	CROSS SHAFT MOTOR I
DEMO	HSC	004	:-TE004-1510	#16	Tw Sh PR	1	HSC004-400X7	TE004-1510	FLEX CONDUIT TO DEVICE	NOT IN EXISTING CABLE LIST	CROSS SHAFT PULLEY E
DEMO	HSC	004	:-HSC004-400CP	#16	Tw Sh PR	4	HSC004A-400	XXX	IHSC004A-400, XXX		
DEMO	HSC	004	:-HSC004A-400CP	#16	Tw Sh PR	7	HSC004A-400	XXX	IHSC004A-400, XXX		
DEMO	HSC	004	P-HSC004-400IP	#14	3/C	1	HSC004-400CP1	HSC004-400IP	:INTERNAL?? BETWEEN ADJACENT PANELS		
DEMO	HSC	004	P-HSC004-400C	#14	3/C	1	HSC004-400CP1	HSC004-400JBB			
DEMO	HSC	004	P-HSC004-400D	#14	3/C	1	HSC004-400CP1	HSC004-400JBA			

STATUS	Device Prefix	Device N	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors	Number of Parallel Cables	Equipment From	Equipment To	Via Raceways	Remarks	Remarks Cont.
DEMO	H5C	004	C-S0VOXX-400	#14	3/C		H5C004-400CP1	S0VOXX-400		DIAGRAM DISAGREE ON SOVO28 OR 29	
DEMO	H5C	004	C-H5C004-400LCP	#14	19/C	1	H5C004-400LCP	H5C004-400CP	C3021-400		
DEMO	H5C	005	P-H5C005A-400CP	500&#2	3C&G	1	LS5028-400	H5C005-400CP	PH5C005L-400, PT-9, PH5C005B-400	Centrifuge #5	
DEMO	H5C	005	P-H5C005B-400CP	500&#2	3C&G	1	LS5028-400	H5C005-400CP	PH5C006M-400, PT-9, PH5C005B-400	Centrifuge #5	
DEMO	H5C	005	P-H5C005-400	500&#2	3C&G	1	H5C001-400CP	H5C005-400MO	PH5C005C-400, PT-4, PT-3, PH5C005G-400	Centrifuge #5	
DEMO	H5C	005	P-H5C005A-400	500&#2	3C&G	1	H5C001-400CP	H5C005-400MO	PH5C005D-400, PT-4, PT-3, PH5C005H-400	Centrifuge #5	
DEMO	H5C	005	I-H5C005-400CP	#16	12/C	1	H5C005-400CP	H5C005-400X4	IH5C005A-400, I1003-400, I1002-400, I3024-400, I3124-400, I3030-400, I3029-400, I3031-400, I3032-400		
DEMO	H5C	005	I-H5C005A-400CP	#16	4/C SHLD	1	H5C005-400CP	H5C005-400X7	IH5C005A-400, I1003-400, I1002-400, I3024-400, I3124-400, I3030-400, I3029-400, I3031-400, I3043-400		
DEMO	H5C	005	I-H5C005-400JB	#16	3/C SHLD	6	H5C005-400CP	H5C005-400JB	IH5C005A-400, I1003-400, I1002-400, I3024-400, I3124-400, I3030-400, I3029-400, I3031-400, I3043-400, I3121-400		
DEMO	H5C	005	I-H5C005B-400	#16	2/C SHLD	6	H5C005-400CP	H5C005-400CP1	IH5C005A-400, I1003-400, I1002, I1004-400, I3066-400, I3046-400, I3045-400, I3044-400, I3030-400, I3029-400, I3028-400		
DEMO	H5C	005	I-H5C005-400VS	#16	2/C SHLD	6	FH5C005-400VIT	H5C005-400VS	FLEX		
DEMO	H5C	005	I-F400HSC005AFIT	#16	2/C SHLD	1	DPU	F400HSC005AFIT	I1005-400, I1004-400, I3066-400, I3046-400, I3045-400, I3044-400, I3030-400, I3029-400, I3031-400, I3033-400		
DEMO	H5C	005	I-H5C005C-400				H5C005-400CP	H5C006-400CP			
DEMO	H5C	005	P-H5C005-400CP				H5C005-400CP	HP9005-400			
DEMO	H5C	005	C-H5C005B-400CPB				H5C005-400CP	H5C005-400CP1	CH5C005A-400, CT-3, XXX		
DEMO	H5C	005	C-H5C005B-400CPC				H5C005-400CP	H5C005-400CP1	CH5C005A-400, CT-3, XXX		
DEMO	H5C	005	C-H5C005B-400CPA				H5C005-400CP	H5C005-400CP1	CH5C005A-400, CT-3, XXX		
DEMO	H5C	005	C-H5C005C-400CP	#14	37/C	1	H5C005-400CP	DPU032-400	CH5C005B-400, CT-1		
DEMO	H5C	005	C-H5C005A-400CP	#14	25/C		H5C005-400CP	H5C005-400X4	CH5C005A-400, CT-3, XXX, H5C005-400X4		
DEMO	H5C	005	C-H5C005B-400CPD				H5C005-400CP	H5C005-400CP1	CH5C005A-400, CT-3, XXX		
DEMO	H5C	005	I-H5C005B-400CP				H5C005-400CP	DPU032-400	CH5C005B-400, CT-1		
DEMO	H5C	005	I-H5C000D-400				H5C005-400CP1	H5C003-400CP	XXXX, CT-3, XXXX		
DEMO	H5C	005	I-H5C005D-400				H5C005-400CP1	H5C005-400CP1	XXXX, CT-3, XXXX		
DEMO	H5C	005	P-H5C005-400LP				H5C005-400CP	H5C005-400LP		CENTRIFUGE #2 LUBE PUMP	
DEMO	H5C	005	P-H5C005-400IP				H5C005-400CP1	H5C005-400IP			
DEMO	H5C	005	C-H5C005-400CP	#14	12/C	1	H5C005-400IP	DPU032-400	XXXX, CT-3, CT-1, XXXX		
DEMO	H5C	005	I-H5C005-400IP				H5C005-400IP	DPU032-400	XXXX, CT-3, CT-1, XXXX		
DEMO	H5C	005	C-S0VOXX-400	#12	3/C	1	H5C005-400X4A	S0VOXX-400	(CONTINUED FROM CABLE C-H5C005A-400CP), H5C005-400X4A, FLEX		CENTRIFUGE FLUSH W
DEMO	H5C	005	C-S0VOXX-400	#12	3/C	1	H5C005-400X4A	S0VOXX-400	(CONTINUED FROM CABLE C-H5C005A-400CP), H5C005-400X4A, FLEX	NOT IN EXISTING CABLE LIST	CLUTCH WATER SOLEN
DEMO	H5C	005	C-FSL005-1010	#14	3/C	1	H5C005-400X4A	FSL005-1010	(CONTINUED FROM CABLE C-H5C005A-400CP), H5C005-400X4A, FLEX		
DEMO	H5C	005	I-TE005-1236	#16	Tw Sh PR	1	H5C005-400X4	TE005-1236	FLEX CONDUIT TO DEVICE	NOT IN EXISTING CABLE LIST	BEARING TEMP LIQUID
DEMO	H5C	005	I-TE005-1240	#16	Tw Sh PR	1	H5C005-400X7	TE005-1240	FLEX CONDUIT TO DEVICE	NOT IN EXISTING CABLE LIST	BEARING TEMP SOLID
DEMO	H5C	005	I-TE005-1506	#16	Tw Sh PR	1	H5C005-400X7	TE005-1506	FLEX CONDUIT TO DEVICE	NOT IN EXISTING CABLE LIST	CROSS SHAFT MOTOR
DEMO	H5C	005	I-TE005-1510	#16	Tw Sh PR	1	H5C005-400X7	TE005-1510	FLEX CONDUIT TO DEVICE	NOT IN EXISTING CABLE LIST	CROSS SHAFT PULLEY
DEMO	H5C	005	I-H5C005-400CP	#16	Tw Sh PR	4	H5C005A-400	XXX	IH5C005A-400, XXX		
DEMO	H5C	005	I-H5C005A-400CP	#16	Tw Sh PR	7	H5C005A-400	XXX	IH5C005A-400, XXX		
DEMO	H5C	005	P-H5C005-400IP	#14	3/C	1	H5C005-400CP1	H5C005-400IP	INTERNAL77 BETWEEN ADJACENT PANELS		
DEMO	H5C	005	P-H5C005-400C	#14	3/C	1	H5C005-400CP1	H5C005-400JBB			
DEMO	H5C	005	P-H5C005-400D	#14	3/C	1	H5C005-400CP1	H5C005-400JBA			
DEMO	H5C	005	C-S0VOXX-400	#14	3/C	1	H5C005-400CP1	S0VOXX-400		DIAGRAM DISAGREE ON SOVO28 OR 29	
DEMO	H5C	005	C-H5C005-400LCP	#14	19/C	1	H5C005-400LCP	H5C005-400CP	C3020-400		
DEMO	H5C	006	P-H5C006A-400CP	500&#2	3C&G	1	LS5028-400	H5C006-400CP	PH5C006L-400, PT-9, PH5C006A-400	Centrifuge #6	
DEMO	H5C	006	P-H5C006B-400CP	500&#2	3C&G	1	LS5028-400	H5C006-400CP	PH5C006M-400, PT-9, PH5C006B-400	Centrifuge #6	
DEMO	H5C	006	P-H5C006-400	500&#2	3C&G	1	H5C006-400CP	H5C006-400MO	PH5C006C-400, PT-4, PT-3, PH5C006G-400	Centrifuge #6	
DEMO	H5C	006	P-H5C006A-400	500&#2	3C&G	1	H5C006-400CP	H5C006-400MO	PH5C006D-400,PT-4, PT-3, PH5C006H-400	Centrifuge #6	
DEMO	H5C	006	I-H5C006-400CP	#16	12/C	1	H5C006-400CP	H5C006-400X4	IH5C006A-400, I1003-400, I1002-400, I3024-400, I3124-400, I3030-400, I3017-400, I3020-400, I3021-400, I3023-400		

STATUS	Device Prefix	Device N	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors	Number of Parallel Cables	Equipment From	Equipment To	Via Raceways	Remarks	Remarks Cont.
DEMO	HSC	006	I-HSC006A-400CP	#16	4/C SHLD	1	HSC006-400CP	HSC006-400X7	IHSC006A-400, I1003-400, I1002-400, I3024-400, I3124-400, I3030-400, I3017-400, I3020-400, I3021-400, I3022-400		
DEMO	HSC	006	I-HSC006-400JB	#16	3/C SHLD	6	HSC006-400CP	HSC006-400JB	IHSC006A-400, I1003-400, I1002-400, I3024-400, I3124-400, I3030-400, I3017-400, I3020-400, I3021-400, I3022-400, I3122-400		
DEMO	HSC	006	I-HSC006B-400	#16	2/C SHLD	6	HSC006-400CP	HSC006-400CP1	IHSC006A-400, I1003-400, I1002-400, I3024-400, I3124-400, I3030-400, I3017-400, I3020-400, I3021-400, I3022-400		
DEMO	HSC	006	I-HSC006-400VS	#16	2/C SHLD	6	FHSC006-400VIT	HSC006-400VS	FLEX		
DEMO	HSC	006	I-F400HSC006AFIT	#16	2/C SHLD	1	DPU	F400HSC006AFIT	I1005-400, I1004-400, I3066-400, I3046-400, I3045-400, I3044-400, I3030-400, I3017-400, I3020-400, I3021-400, I3024-400		
DEMO	HSC	006	I-HSC006C-400				HSC006-400CP	HSC007-400CP			
DEMO	HSC	006	P-HSC006-400CP				HSC006-400CP	IPP006-400			
DEMO	HSC	006	C-HSC006B-400CPB				HSC006-400CP	HSC006-400CP1	CHSC006A-400, CT-3, XXX		
DEMO	HSC	006	C-HSC006B-400CPC				HSC006-400CP	HSC006-400CP1	CHSC006A-400, CT-3, XXX		
DEMO	HSC	006	C-HSC006B-400CPA				HSC006-400CP	HSC006-400CP1	CHSC006A-400, CT-3, XXX		
DEMO	HSC	006	C-HSC006C-400CP	#14	37/C	1	HSC006-400CP	DPU032-400	CHSC006B-400, CT-1		
DEMO	HSC	006	C-HSC006A-400CP	#14	25/C		HSC006-400CP	HSC006-400X4	CHSC006A-400, CT-3, XXX, HSC006-400X4		
DEMO	HSC	006	C-HSC006B-400CPD				HSC006-400CP	HSC006-400CP1	CHSC006A-400, CT-3, XXX		
DEMO	HSC	006	I-HSC006B-400CP				HSC006-400CP	DPU032-400	CHSC006B-400, CT-1		
DEMO	HSC	006	I-HSC006D-400				HSC006-400CP1	HSC003-400CP	XXXX, CT-3, XXXX		
DEMO	HSC	006	I-HSC006D-400				HSC006-400CP1	HSC006-400CP1	XXXX, CT-3, XXXX		
DEMO	HSC	006	P-HSC006-400JP				HSC006-400CP	HSC006-400JP		CENTRIFUGE #2 LUBE PUMP	
DEMO	HSC	006	P-HSC006-400IP				HSC006-400CP1	HSC006-400IP			
DEMO	HSC	006	C-HSC006-400CP	#14	12/C	1	HSC006-400IP	DPU032-400	XXXX, CT-3, CT-1, XXXX		
DEMO	HSC	006	I-HSC006-400IP				HSC006-400IP	DPU032-400	XXXX, CT-3, CT-1, XXXX		
DEMO	HSC	006	C-S0VOXX-400	#12	3/C	1	HSC006-400X4A	S0VOXX-400	(CONTINUED FROM CABLE C-HSC006A-400CP), HSC006-400X4A, FLEX		CENTRIFUGE FLUSH W
DEMO	HSC	006	C-S0VOXX-400	#12	3/C	1	HSC006-400X4A	S0VOXX-400	(CONTINUED FROM CABLE C-HSC006A-400CP), HSC006-400X4A, FLEX	NOT IN EXISTING CABLE LIST	CLUTCH WATER SOLEN
DEMO	HSC	006	C-FS1006-1010	#14	3/C	1	HSC006-400X4A	FS1006-1010	(CONTINUED FROM CABLE C-HSC006A-400CP), HSC006-400X4A, FLEX		
DEMO	HSC	006	I-TE006-1236	#16	Tw Sh PR	1	HSC006-400X4	TE006-1236	FLEX CONDUIT TO DEVICE	NOT IN EXISTING CABLE LIST	BEARING TEMP LIQUID
DEMO	HSC	006	I-TE006-1240	#16	Tw Sh PR	1	HSC006-400X7	TE006-1240	FLEX CONDUIT TO DEVICE	NOT IN EXISTING CABLE LIST	BEARING TEMP SOLID
DEMO	HSC	006	I-TE006-1506	#16	Tw Sh PR	1	HSC006-400X7	TE006-1506	FLEX CONDUIT TO DEVICE	NOT IN EXISTING CABLE LIST	CROSS SHAFT MOTOR
DEMO	HSC	006	I-TE006-1510	#16	Tw Sh PR	1	HSC006-400X7	TE006-1510	FLEX CONDUIT TO DEVICE	NOT IN EXISTING CABLE LIST	CROSS SHAFT PULLEY
DEMO	HSC	006	I-HSC006-400CP	#16	Tw Sh PR	6	HSC006A-400	XXX	IHSC006A-400, XXX		
DEMO	HSC	006	I-HSC006A-400CP	#16	Tw Sh PR	7	HSC006A-400	XXX	IHSC006A-400, XXX		
DEMO	HSC	006	P-HSC006-400IP	#14	3/C	1	HSC006-400CP1	HSC006-400IP	INTERNAL?? BETWEEN ADJACENT PANELS		
DEMO	HSC	006	P-HSC006-400C	#14	3/C	1	HSC006-400CP1	HSC006-400IBB			
DEMO	HSC	006	P-HSC006-400D	#14	3/C	1	HSC006-400CP1	HSC006-400IBA			
DEMO	HSC	006	C-S0VOXX-400	#14	3/C	1	HSC006-400CP1	S0VOXX-400		DIAGRAM DISAGREE ON SOVO28 OR 29	
DEMO	HSC	006	C-HSC006-400LCP	#14	19/C	1	HSC006-400LCP	HSC006-400CP	C3019-400		
DEMO	HSC	007	P-HSC007A-400CP	500&#2	3C&G	1	LSS028-400	HSC007-400CP	PHSC007L-400, PT-9, PHSC007A-400	Centrifuge #7	
DEMO	HSC	007	P-HSC007B-400CP	500&#2	3C&G	1	LSS028-400	HSC007-400CP	PHSC007M-400, PT-9, PHSC007B-400	Centrifuge #7	
DEMO	HSC	007	P-HSC007-400	500&#2	3C&G	1	HSC007-400CP	HSC007-400MO	PHSC007C-400, PT-4, PT-3, PHSC007G-400	Centrifuge #7	
DEMO	HSC	007	P-HSC007A-400	500&#2	3C&G	1	HSC007-400CP	HSC007-400MO	PHSC007D-400, PT-4, PT-3, PHSC007H-400	Centrifuge #7	
DEMO	HSC	007	I-HSC007-400CP	#16	12/C	1	HSC007-400CP	HSC007-400X4	IHSC007A-400, I1002-400, I3024-400, I3124-400, I3030-400, I3017-400, I3010-400, I3012-400, I3013-400		
DEMO	HSC	007	I-HSC007A-400CP	#16	4/C SHLD	1	HSC007-400CP	HSC007-400X7	IHSC007A-400, I1002-400, I3024-400, I3124-400, I3030-400, I3017-400, I3010-400, I3012-400, I3011-400		
DEMO	HSC	007	I-HSC007-400JB	#16	3/C SHLD	6	HSC007-400CP	HSC007-400JB	IHSC007A-400, I1002-400, I3024-400, I3124-400, I3030-400, I3017-400, I3010-400, I3012-400, I3023-400		
DEMO	HSC	007	I-HSC007B-400	#16	2/C SHLD	6	HSC007-400CP	HSC007-400CP1	IHSC007A-400, I1002-400, I3024-400, I3124-400, I3030-400, I3017-400, I3010-400, I3003-400		
DEMO	HSC	007	I-HSC007-400VS	#16	2/C SHLD	6	FHSC007-400VIT	HSC007-400VS	FLEX		
DEMO	HSC	007	I-F400HSC007AFIT	#16	2/C SHLD	1	DPU	F400HSC007AFIT	I1005-400, I1004-400, I3066-400, I3046-400, I3045-400, I3044-400, I3030-400, I3017-400, I3010-400, I3012-400, I3014-400		
DEMO	HSC	007	P-HSC007-400CP				HSC007-400CP	IPP007-400			
DEMO	HSC	007	C-HSC007B-400CPB				HSC007-400CP	HSC007-400CP1	CHSC007A-400, CT-3, XXX		

STATUS	Device Prefix	Device N	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors	Number of Parallel Cables	Equipment From	Equipment To	Via Raceways	Remarks	Remarks Cont.
DEMO	HSC	007	C-HSC007B-400CPC				HSC007-400CP	HSC007-400CP1	CHSC007A-400, CT-3, XXX		
DEMO	HSC	007	C-HSC007B-400CPA				HSC007-400CP	HSC007-400CP1	CHSC007A-400, CT-3, XXX		
DEMO	HSC	007	C-HSC007C-400CP	#14	37/C	1	HSC007-400CP	DPU032-400	CHSC007B-400, CT-1		
DEMO	HSC	007	C-HSC007A-400CP	#14	25/C		HSC007-400CP	HSC007-400X4	CHSC007A-400, CT-3, XXX, HSC007-400X4		
DEMO	HSC	007	C-HSC007B-400CPD				HSC007-400CP	HSC007-400CP1	CHSC007A-400, CT-3, XXX		
DEMO	HSC	007	I-HSC007B-400CP				HSC007-400CP	DPU032-400	CHSC007B-400, CT-1		
DEMO	HSC	007	I-HSC000D-400				HSC007-400CP1	HSC003-400CP	XXXX, CT-3, XXXX		
DEMO	HSC	007	I-HSC007D-400				HSC007-400CP1	HSC007-400CP1	XXXX, CT-3, XXXX		
DEMO	HSC	007	P-HSC007-400LP				HSC007-400CP	HSC007-400LP		CENTRIFUGE #2 LUBE PUMP	
DEMO	HSC	007	P-HSC007-400IP				HSC007-400CP1	HSC007-400IP			
DEMO	HSC	007	C-HSC007-400CP	#14	12/C	1	HSC007-400IP	DPU032-400	XXXX, CT-3, CT-1, XXXX		
DEMO	HSC	007	I-HSC007-400IP				HSC007-400IP	DPU032-400	XXXX, CT-3, CT-1, XXXX		
DEMO	HSC	007	C-SOVOXX-400	#12	3/C	1	HSC007-400X4A	SOVOXX-400	(CONTINUED FROM CABLE C-HSC007A-400CP), HSC007-400X4A, FLEX		CENTRIFUGE FLUSH W
DEMO	HSC	007	C-SOVOXX-400	#12	3/C	1	HSC007-400X4A	SOVOXX-400	(CONTINUED FROM CABLE C-HSC007A-400CP), HSC007-400X4A, FLEX	NOT IN EXISTING CABLE LIST	CLUTCH WATER SOLEN
DEMO	HSC	007	C-FSL007-1010	#14	3/C	1	HSC007-400X4A	FSL007-1010	(CONTINUED FROM CABLE C-HSC007A-400CP), HSC007-400X4A, FLEX		
DEMO	HSC	007	I-TE007-1236	#16	Tw Sh PR	1	HSC007-400X4	TE007-1236	FLEX CONDUIT TO DEVICE	NOT IN EXISTING CABLE LIST	BEARING TEMP LIQUID
DEMO	HSC	007	I-TE007-1240	#16	Tw Sh PR	1	HSC007-400X7	TE007-1240	FLEX CONDUIT TO DEVICE	NOT IN EXISTING CABLE LIST	BEARING TEMP SOLID T
DEMO	HSC	007	I-TE007-1506	#16	Tw Sh PR	1	HSC007-400X7	TE007-1506	FLEX CONDUIT TO DEVICE	NOT IN EXISTING CABLE LIST	CROSS SHAFT MOTOR I
DEMO	HSC	007	I-TE007-1510	#16	Tw Sh PR	1	HSC007-400X7	TE007-1510	FLEX CONDUIT TO DEVICE	NOT IN EXISTING CABLE LIST	CROSS SHAFT PULLEY I
DEMO	HSC	007	I-HSC007-400DP	#16	Tw Sh PR	4	HSC007A-400	XXX	IHSC007A-400, XXX		
DEMO	HSC	007	I-HSC007A-400CP	#16	Tw Sh PR	7	HSC007A-400	XXX	IHSC007A-400, XXX		
DEMO	HSC	007	P-HSC007-400LP	#14	3/C	1	HSC007-400CP1	HSC007-400IP	INTERNAL?? BETWEEN ADJACENT PANELS		
DEMO	HSC	007	P-HSC007-400C	#14	3/C	1	HSC007-400CP1	HSC007-400IBB			
DEMO	HSC	007	P-HSC007-400D	#14	3/C	1	HSC007-400CP1	HSC007-400IBA			
DEMO	HSC	007	C-SOVOXX-400	#14	3/C		HSC007-400CP1	SOVOXX-400		DIAGRAM DISAGREE ON SOVO28 OR 29	
DEMO	HSC	007	C-HSC007-400LCP	#14	19/C	1	HSC007-400LCP	HSC007-400CP	C3018-400		

STATUS	Device Prefix	Device Nu	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors per Cable	Number of Cables	Equipment From	Equipment To	Via Raceways	Remarks	Remarks Cont.
GOOD	CSL	001	C-CSL001A-400	#14	25/C	2	HSC001-400CP	CSL001-400JBT	CHSC001A-400, CT-3, CT-5, CCSL001-400		
GOOD	CSL	001	C-CSL001-400CS2	#14	1/C	4	CSL001-400JBT	CSL001-400CS2	CCSL001-400, CCSL001A-400, CCSL001D-400, CCSL001F-400, CCSL001H-400	E STOP	
GOOD	CSL	001	C-CSL001-400CS3	#14	1/C	2	CSL001-400JBT	CSL001-400CS3	CCSL001-400, CCSL001A-400, CCSL001D-400, CCSL001E-400	PULL CORD	
GOOD	CSL	001	C-CSL001-400DS	#14	1/C	2	CSL001-400JBT	CSL001-400DS	CCSL001-400, CCSL001A-400, CCSL001C-400	DOOR SWITCH 1	
GOOD	CSL	001	C-CSL001-400DS2	#14	1/C	2	CSL001-400JBT	CSL001-400DS2	CCSL001-400, CCSL001A-400, CCSL001D-400, CCSL001F-400, CCSL001G-400	DOOR SWITCH 2	
GOOD	CSL	001	C-CSL001-400SSL	#14	1/C	4	CSL001-400JBT	CSL001-400SSL	CCSL001-400, CCSL001A-400, CCSL001B-400	ZERO SPEED	
GOOD	CSL	001	C-SOV014-400	#14	1/C	4	CSL001-400JBT	SOV014-400	CCSL001-400, CCSL001J-400, CCSL001N-400, CCSL001P-400	SOLENOID 14	
GOOD	CSL	001	C-SOV021-400	#14	1/C	4	CSL001-400JBT	SOV021-400	CCSL001-400, CCSL001J-400, CCSL001N-400, CCSL001Y-400	SOLENOID 21	
GOOD	CSL	001	C-SOV073-400	#14	1/C	4	CSL001-400JBT	SOV073-400	CCSL001-400, CCSL001J-400, CCSL001N-400, CCSL001Q-400, CCSL001S-400	SOLENOID 73	
GOOD	CSL	001	C-GSD011-400ZSC	#14	1/C	2	CSL001-400JBT	GSD011-400ZSC	CCSL001-400, CCSL001J-400, CCSL001N-400, CCSL001Q-400, CCSL001R-400	SLIDE GATE NO 1 CLOSE	
GOOD	CSL	001	C-GSD011-400ZSO	#14	1/C	2	CSL001-400JBT	GSD011-400ZSO	CCSL001-400, CCSL001J-400, CCSL001N-400, CCSL001Q-400, CCSL001T-400	SLIDE GATE NO 1 OPEN	
GOOD	CSL	001	C-SOV074-400	#14	1/C	4	CSL001-400JBT	SOV074-400	CCSL001-400, CCSL001J-400, CCSL001N-400, CCSL001Q-400, CCSL001U-400, CCSL001W-400	SOLENOID 74	
GOOD	CSL	001	C-GSD012-400ZSC	#14	1/C	2	CSL001-400JBT	GSD012-400ZSC	CCSL001-400, CCSL001J-400, CCSL001N-400, CCSL001Q-400, CCSL001U-400, CCSL001V-400	SLIDE GATE NO 2 CLOSE	
GOOD	CSL	001	C-GSD012-400ZSO	#14	1/C	2	CSL001-400JBT	GSD012-400ZSO	CCSL001-400, CCSL001J-400, CCSL001N-400, CCSL001Q-400, CCSL001U-400, CCSL001X-400	SLIDE GATE NO 2 OPEN	
GOOD	CSL	001	C-SOV075-400	#14	1/C	4	CSL001-400JBT	SOV075-400	CCSL001-400, CCSL001J-400, CCSL001L-400	SOLENOID 75	
GOOD	CSL	001	C-GSD013-400ZSC	#14	1/C	2	CSL001-400JBT	GSD013-400ZSC	CCSL001-400, CCSL001J-400, CCSL001K-400	DIVERTER GATE CLOSE	
GOOD	CSL	001	C-GSD013-400ZSO	#14	1/C	2	CSL001-400JBT	GSD013-400ZSO	CCSL001-400, CCSL001J-400, CCSL001M-400	DIVERTER GATE OPEN	
GOOD	CSL	001	P-CSL001-400	#10	4/C	1	HSC001-400CP	CSL001-400	PCSL001A-400, PT-14, PT-16, PT-19, PCSL001-400	SLUDGE SCREW CONVEYOR #1 POWER	
GOOD	DFP	001	P-DFP001-400AF	#6	4/C	1	MCC045-400A	DFP001-400AF	PDFP001B-400AF, PT-5, PT-6, PDFP001A-400AF		
GOOD	DFP	001	P-DFP001-400	#6	1/C	4	DFP001-400AF	DFP001-400MO	PDFP001-400, PDFP001A-400	VFD SHIELDED CABLE	
GOOD	DFP	001	C-DFP001-400CS2	#14	1/C	4	DFP001-400AF	DFP001-400CS2	CDFP001-400, CDFP001B-400, CDFP001D-400, CDFP001E-400		
GOOD	DFP	001	C-DFP001-400HTR	#14	1/C	2	DFP001-400AF	DFP001-400HTR	CDFP001-400, CDFP001A-400, PDFP001A-400		
GOOD	DFP	001	C-DFP001-400PSH	#14	1/C	4	DFP001-400AF	DFP001-400PSH	CDFP001-400, CDFP001B-400, CDFP001C-400		
GOOD	DFP	001	C-DFP001-400PSL	#14	1/C	4	DFP001-400AF	DFP001-400PSL	CDFP001-400, CDFP001B-400, CDFP001D-400, CDFP001F-400		
GOOD	DFP	001	C-DFP001-400TS	#14	1/C	2	DFP001-400AF	DFP001-400TS	CDFP001-400, CDFP001A-400, PDFP001A-400		
GOOD	DFP	001	I-DFP001-400AF	#16	2/C - T.S.	2	DPU-P1AD	DFP001-400AF	I4070-400, I4078-400, I4079-400, I4080-400, I4081-400, I4082-400, I4083-400, I4084-400, IP1AD-400		
GOOD	DFP	001	C-DFP001B-400AF	#14	19/C	1	DPU-P2AD	DFP001-400AF	CP2AD-400, CT-9, CDFP001-400AF		
GOOD	DLP	001	P-SOV067-400	#12	1/C	3	SOV067-400CP	SOV067-400	P010A-400		
GOOD	DLP	001	P-SOV067-400CP	#12	1/C	3	SOV067-400CP	SOV068-400CP	P010-400, P011-400		
GOOD	DLP	001	C-SOV067-400CP	#14	1/C	3	SOV067-400CP	DPU-P2AD	C049A-400, C049-400, C073-400, C072-400, C071-400, C070-400, C069-400, CP2AD-400		
GOOD	DLP	001	I-F400TGB001BFIT	#16	2/C T.S.	1	F400TGB001BFIT	DPU-P1AD	I023-400, I047-400, I046-400, I045-400, I044-400, I043-400, IP1AD-400		
GOOD	DLP	001	P-F400TGB001BFIT	#12	3/C	1	F400TGB001BFIT	F400TGB002BFIT	P527-400, P528-400		
GOOD	DLP	001	C-V400TGB001BFS	#14	1/C	3	V400TGB001BFS	DPU-P1EH	C049B-400, C049-400, C073-400, C072-400, C071-400, C070-400, C069-400, CP1EH-400		
GOOD	GDF	001	P-GDF001-400CP	#12	1/C	4	MCC045-400A	GDF001-400CP	PGDF001-400		
GOOD	GDF	001	P-GDF001-400	#12	1/C	4	GDF001-400CP	GDF001-400MO	PGDF001A-400		
GOOD	GDF	001	C-GDF001-400	#14	1/C	4	CGDF001-400CP	CGDF001-400CS2	CGDF001-400		
GOOD	GDF	001	C-GDF001-400CPJB	#14	1/C	12	DPU-P2AD	CGDF001-400CPJB	CP2ADA-400, C011-400, C001-400		
GOOD	GPS	001	P-GPS001-400	#12	3/C & 1G	1	MCC045-400A	GPS001-400CP	PGPS001C-400, PT-14, PGPS001-400	Primary Sludge Grinder No 1	
GOOD	GPS	001	C-GPS001-400BCP	#14	12/C	1	GPS001-400CP	DPU-P2AD	CP2AD-400, CT-1A, CGPS001-400		
GOOD	GPS	001	C-GPS001-400CS2	#14	1/C	4	GPS001-400CP	GPS001-400CS2	CGPS001A-400, CGPS001C-400		
GOOD	GPS	001	C-GPS001-400	#14	1/C	2	GPS001-400CP	GPS001-400MO	CGPS001A-400, CGPS001B-400, PGPS001B-400		
GOOD	GPS	001	C-SOV050-400MO	#14	1/C	2	JBGPS2-400	SOV050-400	CSOV050A-400, CSOV050B-400	SOV050 POWER	
GOOD	GPS	001	C-SOV050-400ZSO	#14	1/C	2	JBGPS2-400	SOV050-400	CSOV050A-400, CSOV050C-400, CSOV050E-400	SOV050 OPEN LIMIT SWITCH	
GOOD	GPS	001	C-SOV050-400ZSC	#14	1/C	2	JBGPS2-400	SOV050-400	CSOV050A-400, CSOV050C-400, CSOV050D-400	SOV050 CLOSE LIMIT SWITCH	
GOOD	GPS	001	C-SOV056-400MO	#14	1/C	2	JBGPS2-400	SOV056-400	CSOV056A-400, CSOV056B-400	SOV056 POWER	

STATUS	Device Prefix	Device Nu	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors per Cable	Number of Cables	Equipment From	Equipment To	Via Raceways	Remarks	Remarks Cont.
GOOD	GPS	001	C-SOV056-400ZSO	#14	1/C	2	JBGPS2-400	SOV056-400	CSOV056A-400, CSOV056C-400, CSOV056E-400	SOV056 OPEN LIMIT SWITCH	
GOOD	GPS	001	C-SOV056-400ZSC	#14	1/C	2	JBGPS2-400	SOV056-400	CSOV056A-400, CSOV056C-400, CSOV056D-400	SOV056 CLOSE LIMIT SWITCH	
GOOD	GPS	001	C-SOV057-400MO	#14	1/C	2	JBGPS2-400	SOV057-400	CSOV057A-400, CSOV057B-400	SOV057 POWER	
GOOD	GPS	001	C-SOV057-400ZSO	#14	1/C	2	JBGPS2-400	SOV057-400	CSOV057A-400, CSOV057C-400, CSOV057E-400	SOV057 OPEN LIMIT SWITCH	
GOOD	GPS	001	C-SOV057-400ZSC	#14	1/C	2	JBGPS2-400	SOV057-400	CSOV057A-400, CSOV057C-400, CSOV057D-400	SOV057 CLOSE LIMIT SWITCH	
GOOD	GPS	001	C-SOV058-400MO	#14	1/C	2	JBGPS2-400	SOV058-400	CSOV058A-400, CSOV058B-400	SOV058 POWER	
GOOD	GPS	001	C-SOV058-400ZSO	#14	1/C	2	JBGPS2-400	SOV058-400	CSOV058A-400, CSOV058C-400, CSOV058E-400	SOV058 OPEN LIMIT SWITCH	
GOOD	GPS	001	C-SOV058-400ZSC	#14	1/C	2	JBGPS2-400	SOV058-400	CSOV058A-400, CSOV058C-400, CSOV058D-400	SOV058 CLOSE LIMIT SWITCH	
GOOD	GPS	001	C-SOV059-400MO	#14	1/C	2	JBGPS2-400	SOV059-400	CSOV059A-400, CSOV059B-400	SOV059 POWER	
GOOD	GPS	001	C-SOV059-400ZSO	#14	1/C	2	JBGPS2-400	SOV059-400	CSOV059A-400, CSOV059C-400, CSOV059E-400	SOV059 OPEN LIMIT SWITCH	
GOOD	GPS	001	C-SOV059-400ZSC	#14	1/C	2	JBGPS2-400	SOV059-400	CSOV059A-400, CSOV059C-400, CSOV059D-400	SOV059 CLOSE LIMIT SWITCH	
GOOD	GPS	001	C-SOV051-400MO	#14	1/C	2	JBGPS1-400	SOV051-400	CSOV051A-400, CSOV051B-400	SOV051 POWER	
GOOD	GPS	001	C-SOV051-400ZSO	#14	1/C	2	JBGPS1-400	SOV051-400	CSOV051A-400, CSOV051C-400, CSOV051E-400	SOV051 OPEN LIMIT SWITCH	
GOOD	GPS	001	C-SOV051-400ZSC	#14	1/C	2	JBGPS1-400	SOV051-400	CSOV051A-400, CSOV051C-400, CSOV051D-400	SOV051 CLOSE LIMIT SWITCH	
GOOD	GPS	001	C-SOV052-400MO	#14	1/C	2	JBGPS1-400	SOV052-400	CSOV052A-400, CSOV052B-400	SOV052 POWER	
GOOD	GPS	001	C-SOV052-400ZSO	#14	1/C	2	JBGPS1-400	SOV052-400	CSOV052A-400, CSOV052C-400, CSOV052E-400	SOV052 OPEN LIMIT SWITCH	
GOOD	GPS	001	C-SOV052-400ZSC	#14	1/C	2	JBGPS1-400	SOV052-400	CSOV052A-400, CSOV052C-400, CSOV052D-400	SOV052 CLOSE LIMIT SWITCH	
GOOD	GPS	001	C-SOV053-400MO	#14	1/C	2	JBGPS1-400	SOV053-400	CSOV053A-400, CSOV053B-400	SOV053 POWER	
GOOD	GPS	001	C-SOV053-400ZSO	#14	1/C	2	JBGPS1-400	SOV053-400	CSOV053A-400, CSOV053C-400, CSOV053E-400	SOV053 OPEN LIMIT SWITCH	
GOOD	GPS	001	C-SOV053-400ZSC	#14	1/C	2	JBGPS1-400	SOV053-400	CSOV053A-400, CSOV053C-400, CSOV053D-400	SOV053 CLOSE LIMIT SWITCH	
GOOD	GPS	001	C-SOV054-400MO	#14	1/C	2	JBGPS1-400	SOV054-400	CSOV054A-400, CSOV054B-400	SOV054 POWER	
GOOD	GPS	001	C-SOV054-400ZSO	#14	1/C	2	JBGPS1-400	SOV054-400	CSOV054A-400, CSOV054C-400, CSOV054E-400	SOV054 OPEN LIMIT SWITCH	
GOOD	GPS	001	C-SOV054-400ZSC	#14	1/C	2	JBGPS1-400	SOV054-400	CSOV054A-400, CSOV054C-400, CSOV054D-400	SOV054 CLOSE LIMIT SWITCH	
GOOD	GPS	001	C-SOV055-400MO	#14	1/C	2	JBGPS1-400	SOV055-400	CSOV055A-400, CSOV055B-400	SOV055 POWER	
GOOD	GPS	001	C-SOV055-400ZSO	#14	1/C	2	JBGPS1-400	SOV055-400	CSOV055A-400, CSOV055C-400, CSOV055E-400	SOV055 OPEN LIMIT SWITCH	
GOOD	GPS	001	C-SOV055-400ZSC	#14	1/C	2	JBGPS1-400	SOV055-400	CSOV055A-400, CSOV055C-400, CSOV055D-400	SOV055 CLOSE LIMIT SWITCH	
GOOD	GPS	001	C-JBGPS1-400	#14	1/C	30	GPSVCP-400	JBGPS1-400	CJBGPS1-400	DIGITAL TO JB FROM VCP	
GOOD	GPS	001	C-JBGPS1-400	#14	1/C	30	GPSVCP-400	JBGPS2-400	CJBGPS2-400	DIGITAL TO JB FROM VCP	
GOOD	GPS	001	P-GPSVCP-400	#12	1/C	3	GPSVCP-400	BCP002-400	PGPSVCP-400	VALVE CP 120V POWER	
GOOD	GPS	001	C-GPSVCPA-400	#14	25/C	4	GPSVCP-400	DPU-P1EH	CGPSVCP-400, DPU-P1EH	VALVE CP TO DPU	
GOOD	GPS	001	C-GPSVCPB-400	#14	25/C	1	GPSVCP-400	DPU-P2AD	CGPSVCP-400, DPU-P2AD	VALVE CP TO DPU	
GOOD	GWS	001	P-GWS001-400	#12	4/C	1	MCC046-400A	GWS001-400CP	PGWS001C-400, PT-14, PGWS001-400	Mix Room Grinder No 1 (Waste Sludge Grinder No 1)	
GOOD	GWS	001	C-GWS001-400HTR	#14	1/C	2	GWS001-400CP	GWS001-400HTR	CGWS001A-400, CGWS001B-400, PGWS001B-400	Mix Room Grinder No 1 (Waste Sludge Grinder No 1)	
GOOD	GWS	001	P-GWS001A-400	#12	1/C	4	GWS001-400CP	GWS001-400MO	PGWS001A-400, PGWS001B-400	Mix Room Grinder No 1 (Waste Sludge Grinder No 1)	
GOOD	GWS	001	C-GWS001A-400CP	#14	19/C	1	DPU-P1EH	GWS001-400CP	CP1EH-400, CT-1A, CGWS001A-400, CGWS001-400		
GOOD	GWS	001	C-GWS001B-400CP	#14	19/C	1	DPU-P2AD	GWS001-400CP	CP2AD-400, CT-1A, CGWS001A-400, CGWS001-400		
GOOD	GWS	001	C-SOV131-400MO	#14	1/C	2	JBGWS2-400	SOV131-400	CSOV131A-400, CSOV131B-400	SOV131 POWER	
GOOD	GWS	001	C-SOV131-400ZSO	#14	1/C	2	JBGWS2-400	SOV131-400	CSOV131A-400, CSOV131C-400, CSOV131E-400	SOV131 OPEN LIMIT SWITCH	
GOOD	GWS	001	C-SOV131-400ZSC	#14	1/C	2	JBGWS2-400	SOV131-400	CSOV131A-400, CSOV131C-400, CSOV131D-400	SOV131 CLOSE LIMIT SWITCH	
GOOD	GWS	001	C-SOV132-400MO	#14	1/C	2	JBGWS2-400	SOV132-400	CSOV132A-400, CSOV132B-400	SOV132 POWER	
GOOD	GWS	001	C-SOV132-400ZSO	#14	1/C	2	JBGWS2-400	SOV132-400	CSOV132A-400, CSOV132C-400, CSOV132E-400	SOV132 OPEN LIMIT SWITCH	
GOOD	GWS	001	C-SOV132-400ZSC	#14	1/C	2	JBGWS2-400	SOV132-400	CSOV132A-400, CSOV132C-400, CSOV132D-400	SOV132 CLOSE LIMIT SWITCH	
GOOD	GWS	001	C-SOV133-400MO	#14	1/C	2	JBGWS2-400	SOV133-400	CSOV133A-400, CSOV133B-400	SOV133 POWER	
GOOD	GWS	001	C-SOV133-400ZSO	#14	1/C	2	JBGWS2-400	SOV133-400	CSOV133A-400, CSOV133C-400, CSOV133E-400	SOV133 OPEN LIMIT SWITCH	
GOOD	GWS	001	C-SOV133-400ZSC	#14	1/C	2	JBGWS2-400	SOV133-400	CSOV133A-400, CSOV133C-400, CSOV133D-400	SOV133 CLOSE LIMIT SWITCH	

STATUS	Device Prefix	Device Nu	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors per Cable	Number of Cables	Equipment From	Equipment To	Via Raceways	Remarks	Remarks Cont.
GOOD	GWS	001	C-SOV134-400MO	#14	1/C	2	JBGWS2-400	SOV134-400	CSOV134A-400, CSOV134B-400	SOV134 POWER	
GOOD	GWS	001	C-SOV134-400ZSO	#14	1/C	2	JBGWS2-400	SOV134-400	CSOV134A-400, CSOV134C-400, CSOV134E-400	SOV134 OPEN LIMIT SWITCH	
GOOD	GWS	001	C-SOV134-400ZSC	#14	1/C	2	JBGWS2-400	SOV134-400	CSOV134A-400, CSOV134C-400, CSOV134D-400	SOV134 CLOSE LIMIT SWITCH	
GOOD	GWS	001	C-SOV135-400MO	#14	1/C	2	JBGWS2-400	SOV135-400	CSOV135A-400, CSOV135B-400	SOV135 POWER	
GOOD	GWS	001	C-SOV135-400ZSO	#14	1/C	2	JBGWS2-400	SOV135-400	CSOV135A-400, CSOV135C-400, CSOV135E-400	SOV135 OPEN LIMIT SWITCH	
GOOD	GWS	001	C-SOV135-400ZSC	#14	1/C	2	JBGWS2-400	SOV135-400	CSOV135A-400, CSOV135C-400, CSOV135D-400	SOV135 CLOSE LIMIT SWITCH	
GOOD	GWS	001	C-SOV136-400MO	#14	1/C	2	JBGWS3-400	SOV136-400	CSOV136A-400, CSOV136B-400	SOV136 POWER	
GOOD	GWS	001	C-SOV136-400ZSO	#14	1/C	2	JBGWS3-400	SOV136-400	CSOV136A-400, CSOV136C-400, CSOV136E-400	SOV136 OPEN LIMIT SWITCH	
GOOD	GWS	001	C-SOV136-400ZSC	#14	1/C	2	JBGWS3-400	SOV136-400	CSOV136A-400, CSOV136C-400, CSOV136D-400	SOV136 CLOSE LIMIT SWITCH	
GOOD	GWS	001	C-SOV137-400MO	#14	1/C	2	JBGWS3-400	SOV137-400	CSOV137A-400, CSOV137B-400	SOV137 POWER	
GOOD	GWS	001	C-SOV137-400ZSO	#14	1/C	2	JBGWS3-400	SOV137-400	CSOV137A-400, CSOV137C-400, CSOV137E-400	SOV137 OPEN LIMIT SWITCH	
GOOD	GWS	001	C-SOV137-400ZSC	#14	1/C	2	JBGWS3-400	SOV137-400	CSOV137A-400, CSOV137C-400, CSOV137D-400	SOV137 CLOSE LIMIT SWITCH	
GOOD	GWS	001	C-SOV138-400MO	#14	1/C	2	JBGWS3-400	SOV138-400	CSOV138A-400, CSOV138B-400	SOV138 POWER	
GOOD	GWS	001	C-SOV138-400ZSO	#14	1/C	2	JBGWS3-400	SOV138-400	CSOV138A-400, CSOV138C-400, CSOV138E-400	SOV138 OPEN LIMIT SWITCH	
GOOD	GWS	001	C-SOV138-400ZSC	#14	1/C	2	JBGWS3-400	SOV138-400	CSOV138A-400, CSOV138C-400, CSOV138D-400	SOV138 CLOSE LIMIT SWITCH	
GOOD	GWS	001	C-SOV139-400MO	#14	1/C	2	JBGWS3-400	SOV139-400	CSOV139A-400, CSOV139B-400	SOV139 POWER	
GOOD	GWS	001	C-SOV139-400ZSO	#14	1/C	2	JBGWS3-400	SOV139-400	CSOV139A-400, CSOV139C-400, CSOV139E-400	SOV139 OPEN LIMIT SWITCH	
GOOD	GWS	001	C-SOV139-400ZSC	#14	1/C	2	JBGWS3-400	SOV139-400	CSOV139A-400, CSOV139C-400, CSOV139D-400	SOV139 CLOSE LIMIT SWITCH	
GOOD	GWS	001	C-SOV140-400MO	#14	1/C	2	JBGWS1-400	SOV140-400	CSOV140A-400, CSOV140B-400	SOV140 POWER	
GOOD	GWS	001	C-SOV140-400ZSO	#14	1/C	2	JBGWS1-400	SOV140-400	CSOV140A-400, CSOV140C-400, CSOV140E-400	SOV140 OPEN LIMIT SWITCH	
GOOD	GWS	001	C-SOV140-400ZSC	#14	1/C	2	JBGWS1-400	SOV140-400	CSOV140A-400, CSOV140C-400, CSOV140D-400	SOV140 CLOSE LIMIT SWITCH	
GOOD	GWS	001	C-SOV141-400MO	#14	1/C	2	JBGWS1-400	SOV141-400	CSOV141A-400, CSOV141B-400	SOV141 POWER	
GOOD	GWS	001	C-SOV141-400ZSO	#14	1/C	2	JBGWS1-400	SOV141-400	CSOV141A-400, CSOV141C-400, CSOV141E-400	SOV141 OPEN LIMIT SWITCH	
GOOD	GWS	001	C-SOV141-400ZSC	#14	1/C	2	JBGWS1-400	SOV141-400	CSOV141A-400, CSOV141C-400, CSOV141D-400	SOV141 CLOSE LIMIT SWITCH	
GOOD	GWS	001	C-SOV142-400MO	#14	1/C	2	JBGWS1-400	SOV142-400	CSOV142A-400, CSOV142B-400	SOV142 POWER	
GOOD	GWS	001	C-SOV142-400ZSO	#14	1/C	2	JBGWS1-400	SOV142-400	CSOV142A-400, CSOV142C-400, CSOV142E-400	SOV142 OPEN LIMIT SWITCH	
GOOD	GWS	001	C-SOV142-400ZSC	#14	1/C	2	JBGWS1-400	SOV142-400	CSOV142A-400, CSOV142C-400, CSOV142D-400	SOV142 CLOSE LIMIT SWITCH	
GOOD	GWS	001	C-SOV143-400MO	#14	1/C	2	JBGWS1-400	SOV143-400	CSOV143A-400, CSOV143B-400	SOV143 POWER	
GOOD	GWS	001	C-SOV143-400ZSO	#14	1/C	2	JBGWS1-400	SOV143-400	CSOV143A-400, CSOV143C-400, CSOV143E-400	SOV143 OPEN LIMIT SWITCH	
GOOD	GWS	001	C-SOV143-400ZSC	#14	1/C	2	JBGWS1-400	SOV143-400	CSOV143A-400, CSOV143C-400, CSOV143D-400	SOV143 CLOSE LIMIT SWITCH	
GOOD	GWS	001	C-SOV144-400MO	#14	1/C	2	JBGWS1-400	SOV144-400	CSOV144A-400, CSOV144B-400	SOV144 POWER	
GOOD	GWS	001	C-SOV144-400ZSO	#14	1/C	2	JBGWS1-400	SOV144-400	CSOV144A-400, CSOV144C-400, CSOV144E-400	SOV144 OPEN LIMIT SWITCH	
GOOD	GWS	001	C-SOV144-400ZSC	#14	1/C	2	JBGWS1-400	SOV144-400	CSOV144A-400, CSOV144C-400, CSOV144D-400	SOV144 CLOSE LIMIT SWITCH	
GOOD	GWS	001	C-JBGWS1-400	#14	1/C	30	GWSVCP-400	JBGWS1-400	CJBGWS1-400	DIGITAL TO JB FROM VCP	
GOOD	GWS	001	C-JBGWS2-400	#14	1/C	30	GWSVCP-400	JBGWS2-400	CJBGWS2-400	DIGITAL TO JB FROM VCP	
GOOD	GWS	001	C-JBGWS3-400	#14	1/C	30	GWSVCP-400	JBGWS3-400	CJBGWS3-400	DIGITAL TO JB FROM VCP	
GOOD	GWS	001	P-GWSVCP-400	#12	1/C	3	GWSVCP-400	BCP002-400	PGWSVCP-400	VALVE CP 120V POWER	
GOOD	GWS	001	C-GWSVCPA-400	#14	19/C	2	GWSVCP-400	DPU-P1EH	CGWSVCP-400, DPU-P1EH	VALVE CP TO DPU	
GOOD	GWS	001	C-GWSVCPB-400	#14	25/C	3	GWSVCP-400	DPU-P2AD	CGWSVCP-400, DPU-P2AD	VALVE CP TO DPU	
GOOD	GWS	001	C-GWSVCPC-400	#14	25/C	2	GWSVCP-400	DPU-P2EH	CGWSVCP-400, DPU-P2EH	VALVE CP TO DPU	
GOOD	HSC	001	P-HSC001-400CP	350&G	3C&G	1	USS015-400	HSC001-400CP	PHSC001L-400, PT-10, PHSC001A-400		
GOOD	HSC	001	P-HSC001A-400	3/0&G	3C&G	1	HSC001-400CP	HSC001-400MO	PHSC001C-400, PT-1, PHSC001G-400	VFD SHIELDED CABLE, 2000V CABLE	
GOOD	HSC	001	P-HSC001B-400	#1&G	3C&G	1	HSC001-400CP	HSC001-400MOB	PHSC001E-400, PT-1, PHSC001J-400	VFD SHIELDED CABLE, 2000V CABLE	
GOOD	HSC	001	P-HSC001-400MO	#12	3/C	1	HSC001-400CP	HSC001-400MO	PHSC001B-400, PT-16, PHSC001H-400	120V-P TO BOWL MOTOR	
GOOD	HSC	001	P-HSC001-400MOB	#12	3/C	1	HSC001-400CP	HSC001-400MOB	PHSC001B-400, PT-16, PHSC001K-400	120V-P TO SCROLL MOTOR	

STATUS	Device Prefix	Device Nu	Circuit No.	Cable Size AWG or KCMIL	No. of Conductors per Cable	Number of Cables	Equipment From	Equipment To	Via Raceways	Remarks	Remarks Cont.
GOOD	HSC	001	C-HSC001-400MOB	#16	3/C SHLD	1	HSC001-400CP	HSC001-400MOB	CHSC001SM-400	24V-C TO SCROLL MOTOR	
GOOD	HSC	001	C-HSC001-400MO	#16	3/C SHLD	1	HSC001-400CP	HSC001-400MO	CHSC001BM-400	24V-C TO BOWL MOTOR	
GOOD	HSC	001	C-HSC001-400X6JB	#14	5/C	1	HSC001-400CP	HSC001-400X6JB	CHSC001B-400, CT-3, CHSC001X6-400	120V-C TO X6JB	
GOOD	HSC	001	C-HSC001-400X47JB	#14	9/C	1	HSC001-400CP	HSC001-400X47JB	CHSC001B-400, CT-3, CHSC001X47-400	120V-C TO X47JB	
GOOD	HSC	001	C-HSC001-400X48JB	#14	5/C	1	HSC001-400CP	HSC001-400X48JB	CHSC001B-400, CT-3, CHSC001X48-400	120V-C TO X48JB	
GOOD	HSC	001	C-HSC001-400BLV059	#14	3/C	1	HSC001-400CP	HSC001-400BLV059	CHSC001B-400, CT-3, CHSC001CFW-400, CHSC001CFWB-400	120V-C TO BALL VALVE	
GOOD	HSC	001	C-HSC001-400FWFS	#14	3/C	1	HSC001-400CP	HSC001-400FWFS	CHSC001B-400, CT-3, CHSC001CFW-400, CHSC001CFWA-400	120V-C TO FLOW SWITCH	
GOOD	HSC	001	P-HSC001-400BLV059	#12	3/C	1	HSC001-400CP	HSC001-400BLV059	PHSC001B-400, PT-16, PHSC001CFW-400	120V-P TO BALL VALVE	
GOOD	HSC	001	I-HSC001-400IJBA	#16	2/C T.S.	2	HSC001-400CP	HSC001-400IJB	IHSC001A-400	ANALOG MCP TO IJB	
GOOD	HSC	001	I-HSC001-400IJBB	#16	3/C T.S.	9	HSC001-400CP	HSC001-400IJB	IHSC001A-400	ANALOG MCP TO IJB	
GOOD	HSC	001	I-HSC001-400X11JB	#16	3/C T.S.	2	HSC001-400IJB	HSC001-400X11JB	IHSC001X11-400	ANALOG TO X11 JB	
GOOD	HSC	001	I-HSC001-400X47JBA	#16	2/C T.S.	2	HSC001-400IJB	HSC001-400X47JB	IHSC001X47-400	ANALOG TO X47 JB	
GOOD	HSC	001	I-HSC001-400X47JBB	#16	3/C T.S.	2	HSC001-400IJB	HSC001-400X47JB	IHSC001X47-400	ANALOG TO X47 JB	
GOOD	HSC	001	I-HSC001-400X10JB	#16	3/C T.S.	2	HSC001-400IJB	HSC001-400X10JB	IHSC001X10-400	ANALOG TO X10 JB	
GOOD	HSC	001	I-HSC001-400X60JB	#16	3/C T.S.	3	HSC001-400IJB	HSC001-400X60JB	IHSC001X60-400	ANALOG TO X60 JB	
GOOD	HSC	001	I-HSC001-400X20JB	#16	3/C T.S.	2	HSC001-400LCP	HSC001-400X20JB	IHSC001X20-400	ANALOG TO X20 JB	
GOOD	HSC	001	C-HSC001-400LCP	#14	19/C	1	HSC001-400CP	HSC001-400LCP	CHSC001B-400, CT-3, CHSC001D-400	120V-C TO LOCAL CP	
GOOD	HSC	001	P-HSC001-400LCP	#10	3/C	1	HSC001-400CP	HSC001-400LCP	PHSC001B-400, PT-16, PHSC001Q-400	120V-P TO LOCAL CP	
GOOD	HSC	001	I-HSC001-400LCP	ETHERNET	ETHERNET	1	HSC001-400CP	HSC001-400LCP	IHSC001F-400	ANALOG TO LOCAL CP	
GOOD	HSC	001	P-HSC001C-400	#12	3/C	1	HSC001-400CP	BCP001-400	PHSC001B-400, PT-16, PHSC001D	120V-P FROM POWER PANEL	
GOOD	HSC	001	I-HSC001C-400	#16	2/C T.S.	3	HSC001-400CP	DPU-P1AD	IHSC001C-400, I4103-400, I4105-400, IP2AD-400	ANALOG TO DPU	
GOOD	HSC	001	C-HSC001A-400	#16	19/C	2	HSC001-400CP	DPU-P2AD	CHSC001A-400, CT-1, CP2AD-400	DIGITAL TO DPU	
GOOD	HSC	001	I-HSC001B-400	ETHERNET	ETHERNET	1	HSC001-400CP	DPU-P1EH	IHSC001B-400, I4109-400, I4110, IP1EH-400	ETHERNET TO DPU	
GOOD	HSC	001	C-HSC001B-400	#14	12/C	1	HSC001-400IP	DPU-P2AD	CHSC001E-400, CT-3, CP2AD-400	DIGITAL IP TO DPU	
GOOD	HSC	001	I-HSC001D-400	#16	2/C T.S.	4	HSC001-400IP	DPU-P1AD	IHSC001D-400, I4114-400, I4115-400, I4116-400, I4117-400, I4118-400, I4119-400, IP1AD-400	ANALOG IP TO DPU	
GOOD	HSC	001	I-HSC001E-400	ETHERNET	ETHERNET	1	HSC001-400IP	DPU-P1EH	IHSC001E-400, I4120-400, I4121-400, I4122-400, I4123-400, I4124, I4125-400, IP1EH-400	ETHERNET IP TO DPU	

device with multiple analog/digital dpu points	digital / analog
DFP008	ANALOG
PFP011	DIGITAL
PFP012	DIGITAL
PFP013	DIGITAL
PFP014	DIGITAL
PFP015	DIGITAL
PFP016	DIGITAL
PTS001	DIGITAL
PTS002	DIGITAL / ANALOG
PTS004	DIGITAL
TFP001	DIGITAL
TFP002	DIGITAL
TFP003	DIGITAL
TFP004	DIGITAL / ANALOG
TFP005	DIGITAL
TFP006	DIGITAL
TFP007	DIGITAL
TGB001	DIGITAL
TGB002	DIGITAL / ANALOG
TGB003	DIGITAL / ANALOG
TGB004	DIGITAL / ANALOG
TGB005	DIGITAL
TGB006	DIGITAL
GSW001	DIGITAL
GSW002	DIGITAL
GSW003	DIGITAL
GSW004	DIGITAL
GPS001	DIGITAL
GPS002	DIGITAL
GPS004	DIGITAL