

# Addendum 2

**City of Canton, Ohio**  
Purchasing Department  
218 Cleveland Ave. SW, 4<sup>th</sup> floor  
Canton, Ohio 44702

Sludge Processing Modifications, Contract 27

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**Item/Project**

Water Reclamation Facility

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**Responsible Department**

Thursday, June 28, 2018 at 2:00 PM local time

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**Bids Due On or Before**

## Bid Proposal Submitted By:

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Company Name

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Street Address

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City

State

Zip

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Contact Person

Phone No.

Email Address

**Sludge Processing Modifications, Contract 27  
Water Reclamation Facility**

The following questions were submitted, via email or facsimile, to the City for clarification. The answers provided herein are provided as the formal responses to these questions and supersede any verbal interpretations previously offered.

- Q1. Reference to Section 46 76 33 3.6A, Contractor is to supply polymer for testing: Can the owner provide contact information of their polymer supplier for the Solenis K290FLX??  
A1. Eric Butler. 800-842-765; 313-506-5755.
- Q2. Reference to Section 46 76 33 1.4B3b, which states 3<sup>rd</sup> party testing lab by Contractor but 3.6C5 lists "centrifuge mfg shall be responsible for collecting, marking and pick up or delivery of samples to centrifuge mfg. independent testing laboratory for testing". Is contractor or centrifuge mfg responsible for procuring testing laboratory?  
A2. Centrifuge manufacturer. See this Addendum.
- Q3. Could the quantity of Solenis K290FLX to be provided be quantified?  
A3. Two, 330 gallon totes shall be provided. See this Addendum.
- Q4. Do AIS (American Iron and Steel) requirements apply to this project?  
A4. No.
- Q5. Do the polymer storage tank housekeeping pads get demolished?  
A5. No.
- Q6. In regards to Specification Section 46 76 33, Dewatering Centrifuges, Page 3, part 1.1.C.7. Please confirm the costs for the Power Quality testing will be paid by the owner.  
A6. Power Quality testing reference will be deleted. See this Addendum.
- Q7. In regards to Specification Section 46 76 33, Dewatering Centrifuges, Page 14, part 1.6.B. Please consider revising to the following: "Centrifuge manufacturer shall guarantee the dewatering centrifuge equipment and material furnished under this Contract to be free from defects in materials and workmanship for a period of 18 months from final acceptance of dewatering centrifuge equipment and material, or 24 months from delivery, whichever occurs first"?  
A7. See this Addendum.
- Q8. In regards to Specification Section 46 76 33, Dewatering Centrifuges, Page 22, part 2.3.O.2.e. Please consider removing the RTDs from the drive motor and change to thermistors. This will be a special order motor because of the RTD's required. The project already has a tight schedule and this requirement will add many weeks to the delivery of the motor which is outside the control of the centrifuge manufacturer. GEA recommends changing to thermistors, which is more common and still provides motor protection?  
A8. This project requires RTDs to provide the correct monitoring features for the motors. No change will be made to the specification.
- Q9. In regard to Specification Section 46 76 33, Dewatering Centrifuges, Page 44, part 3.6.A. Please consider revising the last sentence of the paragraph as follows, "Contractor shall furnish two 330-gallon totes of polymer to be used during field acceptance testing. Additional polymer required will be provided by the Owner". Specifying a specific number of totes can easily be estimated and provided by the manufacturer, rather than an unknown polymer quantity for the performance testing. The specification requires the Contractor to use the City's existing polymer, therefore additional polymer, if needed, can easily be provided by the City.  
A9. See this Addendum.
- Q10. In regard to Specification Section 46 76 33, Dewatering Centrifuges, Page 49, part 3.7.B.4.c. Please consider adding the following to the end of the paragraph, "Performance damages shall be capped not

**Sludge Processing Modifications, Contract 27  
Water Reclamation Facility**

to exceed 10% of the centrifuges' value". GEA will only accept penalties up to a percentage of the value of the products provided.

A10. No change is made to the specifications.

Q11. Regarding the Painting, Section 09 91 00, do painting requirements apply to new installations only?

A11. See this Addendum.

Q12. Our accelerator/target is manufactured rigid to the scroll hub body made of stainless steel. Is this acceptable?

A12. Yes.

Q13. In regard to Section 26 05 23, Paragraph 2.01.C, would it be acceptable to provide a multiconductor shielded cable, such as Beldon 1477A, 12 pair, to interconnect the centrifuge manufacturer junction box to the control panel in lieu of what is specified?

A13. Multiconductor cables are allowed. The Specification has general manufacturer and shielded pair requirements. No change made to the Specification.

Q14. In regard to Section 26 29 23, Paragraph 2.04.A.1, would an ABB ULH be acceptable in lieu of the specified 18-pulse VFD?

A14. 18-pulse VFDs are required for this project. No change made to the Specification.

Q15. How long can the existing press operation and any other existing operations that tie into the existing drain be down to tie into temporary drain piping?

A 15. The existing operations may be down two to eight hours with prior coordination and is dependent on plant flows.

### **CHANGE TO PROPOSAL PAGES**

See attached replacement PROPOSAL PAGES, Page 75 of 75.

### **CHANGES TO SPECIFICATIONS**

Page 01 21 00-2, Paragraph 1.4.A.1 – Delete "\$120,000" and replace with "\$146,000".

Page 09 91 00-1, Paragraph 1.1.A.2.a and b. – Delete these paragraphs and renumber Paragraphs "c." and "d." as "a." and "b.", respectively.

Page 09 91 00-9, Paragraph 2.2.A – Delete the first sentence and replace with: "New and Existing Cast-In-Place Concrete Floor; Moderate Corrosion and Abrasion-Resistant, Non-submerged, Interior."

Page 09 91 00-20, Paragraph 3.9.A: Table 09 91 00-C – Add to the third row, first column "New Metallic". Add to the last row, first column "New".

Page 40 64 00-7, Paragraph 2.10.B.7 – Revise the phrase "7 Pro SP1 64 bit" to "7 Pro SP1 32 bit".

Page 40 64 00-7, Paragraph 2.10.C.1 – Revise to read "Proficy iFix software, version 5.9 or later".

Page 46 76 33-5, Paragraph 1.4.A.1.b – In the first sentence, delete "fabrication approach". After the first sentence add "A complete, detailed layout drawing showing all interconnections with piping and electrical and support platform produced in AutoCAD (AutoCAD contract drawings will be provided for manufacturer's use) to confirm piping connection sizes, features location and overall orientation and connectivity."

Page 46 76 33-9, Paragraph 1.4.B.2.a – After "anchor bolts" insert "(from anchorage manufacturer)".

**Sludge Processing Modifications, Contract 27**  
**Water Reclamation Facility**

Page 46 76 33-9, Paragraph 1.4.B.3.b – Delete “CONTRACTOR” in first place used and replace with “Centrifuge Manufacturer”.

Page 46 76 33-14, Paragraph 1.6.B – Add to the end of the first sentence “, or 24 months after delivery, whichever occurs first.”

Page 46 76 33-19, Paragraph 2.3.H.4 – Add after the first sentence: “Or, the edge and face of conveyor flights shall include a series of welded-on sintered tungsten carbide tile assemblies from two wraps beyond the solids feed zone through the solids discharge end.”

Page 46 76 33-23, Paragraph 2.5.A.2 – Add the following: “Shimming to level can be performed as alternative to leveling bolts.”

Page 46 76 33-24, Paragraph 2.6.A – In the second sentence, after “8”, add “or 10”.

Page 46 76 33-25, Paragraph 2.7.A – In the second sentence, delete “6 or 8” and replace with “6, 8 or 10”.

Page 46 76 33-38, Paragraphs 2.12.A.5 and A.6 – Delete “Two” in each paragraph.

Page 46 76 33-47, Paragraph 3.6.A – Delete the last sentence and replace with “Contractor shall furnish two, 330-gallon totes of polymer for use during the field acceptance testing. Additional polymer required will be provided by the Owner.”

Page 46 76 33-47, Paragraph 3.6.D – In the third sentence, after the phrase “disagree by more than one percentage point of dry solids” add “for three or more samples on a common centrifuge test run”.

Page 46 76 33-48, Paragraph 3.7.A – After “226 gpm” add “or higher”.

**CHANGES TO DRAWINGS**

Sheet D-1 – Revise to indicate that all low bay lighting and associated conduit/wiring shown on the partial plan shall be removed.

Sheet M-7 – In the “CENTRIFUGE UTILITY PIPING SCHEMATIC”, add to the one, 3-inch and the three, 1-inch flushing water lines a check valve located just before connection with the sludge or drain piping. In the “FLUSH WATER PIPING ELEVATION”, add a 3-inch check valve to the “3” CENTRIFUGE FLUSH WATER” piping downstream of the last 90-degree bend.

Sheet E-2 – Replace drawing with the revised drawing included in this Addendum.

Sheet E-3A – Replace drawing with the revised drawing included in this Addendum.

Sheet E-3G – Replace drawing with the revised drawing included in this Addendum.

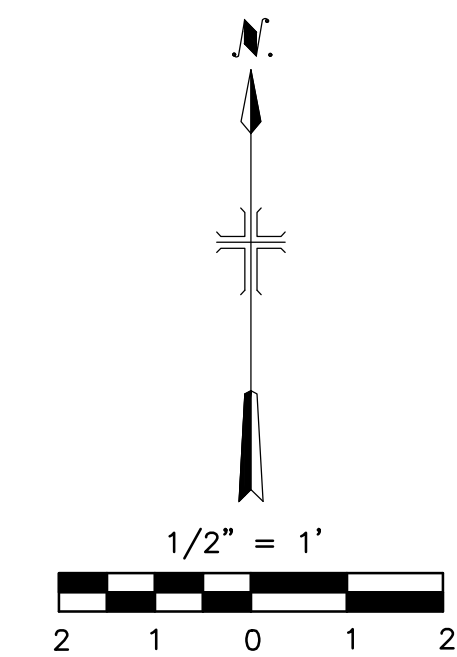
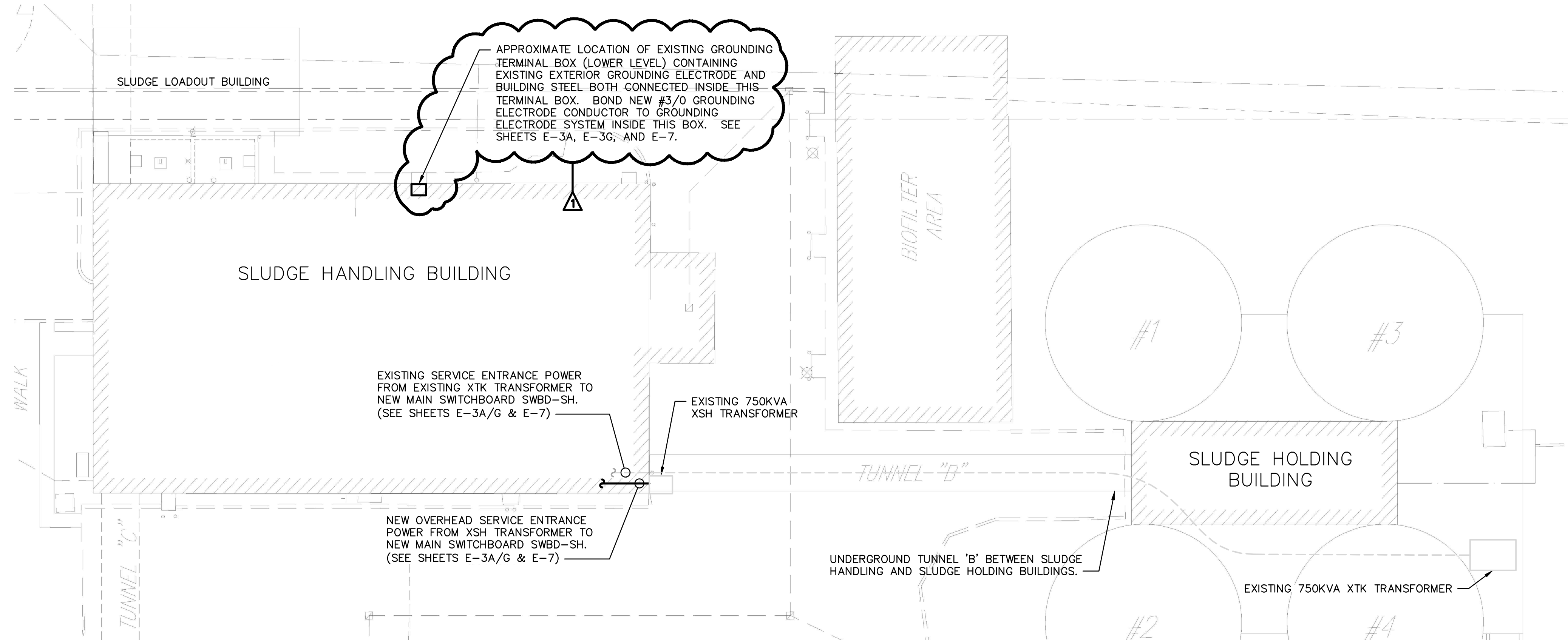
Sheet E-7 – Replace drawing with the revised drawing included in this Addendum.

Sheet E-9A – Replace drawing with the revised drawing included in this Addendum.

Sheet I-6A – Replace drawing with the revised drawing included in this Addendum.

Sheet I-8 – Replace drawing with the revised drawing included in this Addendum.

User: ZPYLE Spec: AUS-NC5MOD File: \\ARCADIS-US.COM\OFFICE\DATA\AKRON-OH\PROJECT\AK000343.B002-CANTON-SLUDGE\DRAWING\CADD\05-ELECTRICAL\CADD FILES\E-2.DWG Scale: 1/2" = 1' Date: 6/19/2018 Time: 07:55 : Layout: 40



**ENLARGED SITE PLAN: SLUDGE HANDLING AND SLUDGE HOLDING BUILDING**

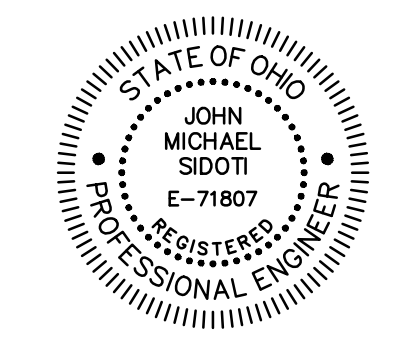


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CITY OF CANTON

CANTON WATER RECLAMATION FACILITY  
SLUDGE PROCESSING MODIFICATIONS  
CONTRACT NO. 27

ARCADIS PROJ. NO. AK000343.B002

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DATE: MAY 2018  
PROJECT NO.: AK000343.B002  
FILE NAME: E-2  
DESIGNED BY: NCP  
DRAWN BY: NCP  
CHECKED BY: JMS

SHEET TITLE

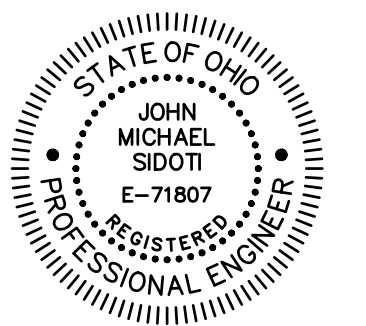
ELECTRICAL

SITE PLAN

SCALE: 1/2" = 1'

E-2

SHEET 40 OF 61



CITY OF CANTON

**CANTON WATER RECLAMATION FACILITY  
SLUDGE PROCESSING  
MODIFICATIONS  
CONTRACT NO. 27**

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PROJECT NO.: AK000343.B002  
FILE NAME: E-3A  
DESIGNED BY: NCP  
DRAWN BY: NCP  
CHECKED BY: JMS

SHEET TITLE

**ELECTRICAL**

**POWER PLAN  
SLUDGE HANDLING  
BUILDING - FIRST  
FLOOR, ALFA LAVAL**

SCALE: AS SHOWN

**E-3A**

SHEET 41 OF 61

**POWER PLAN NOTES:**

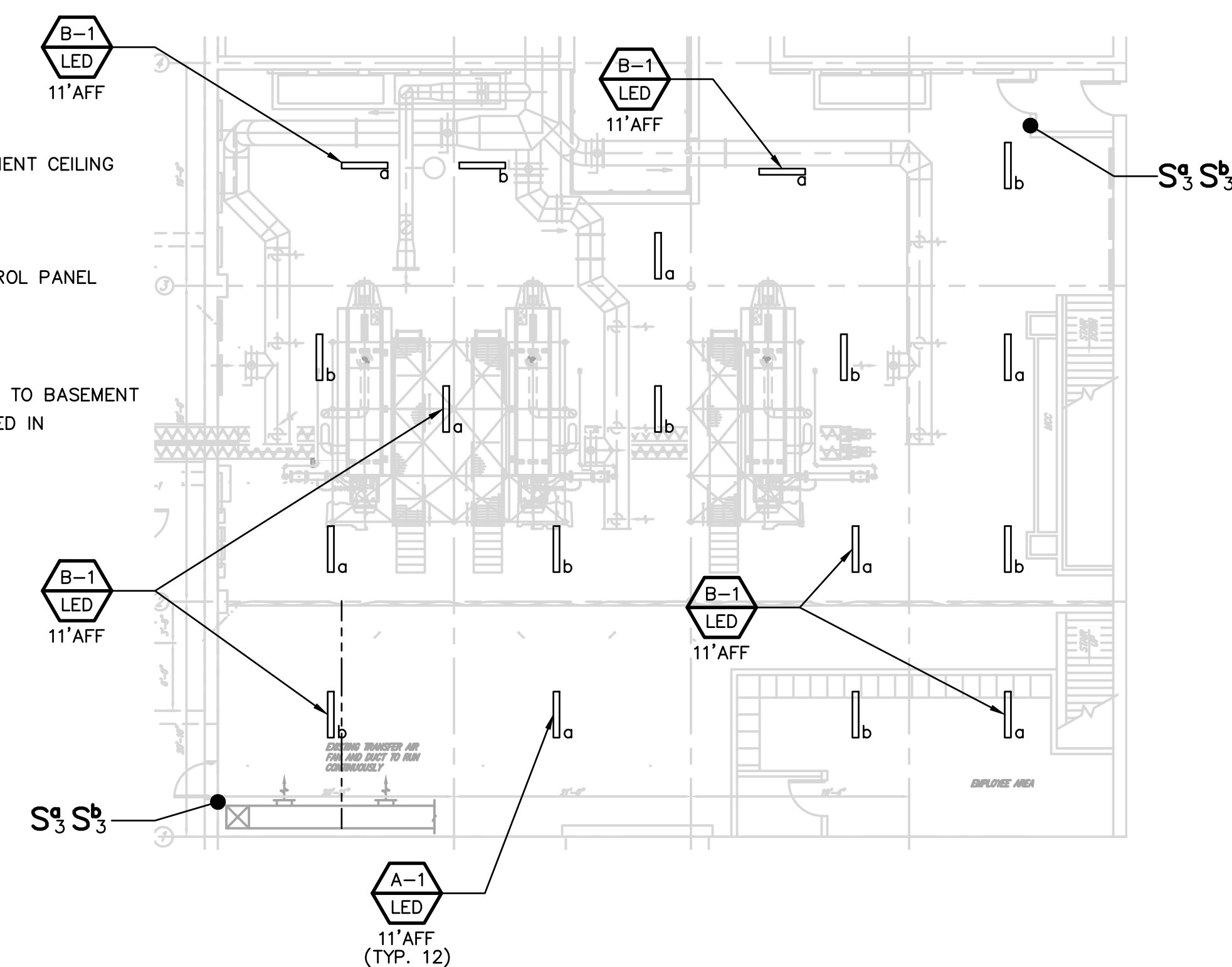
- ALL OUTDOOR AREAS AND CENTRIFUGE AREA ARE CONSIDERED WET AND CORROSIVE LOCATIONS. CONTROL ROOMS ARE CONSIDERED DUSTY LOCATIONS. ALL MATERIALS, EQUIPMENT, INCIDENTALS, ETC. SHALL CONFORM TO THE REQUIREMENTS OF THE AREA'S CLASSIFICATION.
- FOR CLARITY NOT ALL CONDUIT RUN AND HOMERUNS ARE SHOWN. REFER TO ONE LINE DIAGRAM (E-7) AND BLOCK DIAGRAM (E-9A/G) FOR CONDUIT AND CABLE INSTALLATION.
- CONDUIT RUN SHOWN IS DIAGRAMMATIC FOR CONTRACTOR'S GUIDANCE. CONTRACTOR SHALL FIELD DETERMINE FINAL ROUTE TO AVOID INTERFERENCE WITH NEW AND EXISTING EQUIPMENT AND SYSTEM. PROVIDE CONDUIT SUPPORTS, CORE DRILLS, SEALING BUSHINGS AND INCIDENTALS AS REQUIRED.

**LIGHTING PLAN NOTES:**

- CONTRACTOR SHALL REUSE (2) EXISTING 20A, 277V, SINGLE POLE LIGHTING CIRCUIT BREAKERS IN PANEL LPSH1.
- CONTRACTOR SHALL COORDINATE WITH MECHANICAL AND STRUCTURAL DRAWINGS TO ENSURE LUMINAIRE HAVE PROPER CLEARANCE FROM ALL CENTRIFUGE UNITS, DUCTS, VENTS, MONORAIL BEAMS, AND STRUCTURAL BEAMS.
- CENTRIFUGE ROOM LIGHTING PLAN IS TYPICAL FOR DRAWINGS E-3A AND E-3G.

LUMINAIRE SCHEDULE		
FIXTURE TYPE	DESCRIPTION	MANUFACTURER
A-1	LED LIGHT FIXTURE, 4 FOOT LENGTH, STEM MOUNTED, UL LISTED SUITABLE FOR WET LOCATIONS AND NON-CORROSIVE. FIXTURE SHALL HAVE A MINIMUM OF 7000LM, AND OPERATE AT 277V.	PHILIPS DAY-BRITE VAPORLUME LED DW (DWAE70L840-4-UNV) OR EQUAL.
B-1	LED LIGHT FIXTURE, 4 FOOT LENGTH, STEM MOUNTED, UL LISTED SUITABLE FOR WET LOCATIONS AND NON-CORROSIVE. FIXTURE SHALL HAVE A MINIMUM OF 7000LM, INTEGRAL EMERGENCY BACKUP EMLD OPTION AND OPERATE AT 277V.	PHILIPS DAY-BRITE VAPORLUME LED DW (DWAE70L840-4-UNV-EMLD) OR EQUAL.

**LUMINAIRE SCHEDULE**



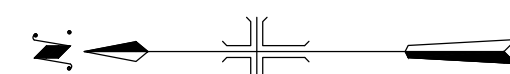
**LIGHTING PLAN**

SCALE: 3/32" = 1'-0"

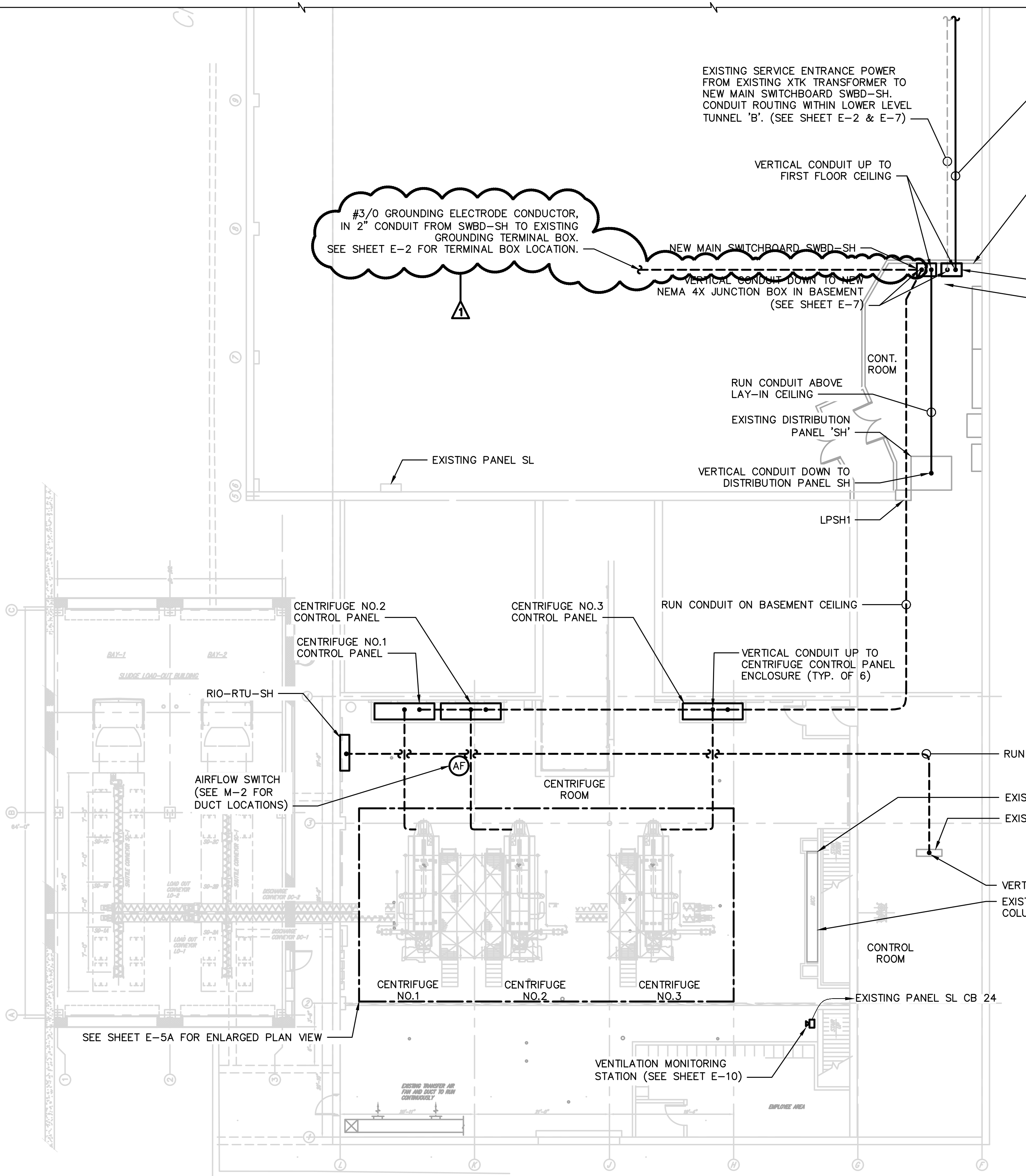


**POWER PLAN - FIRST FLOOR**

SCALE: 3/32" = 1'-0"



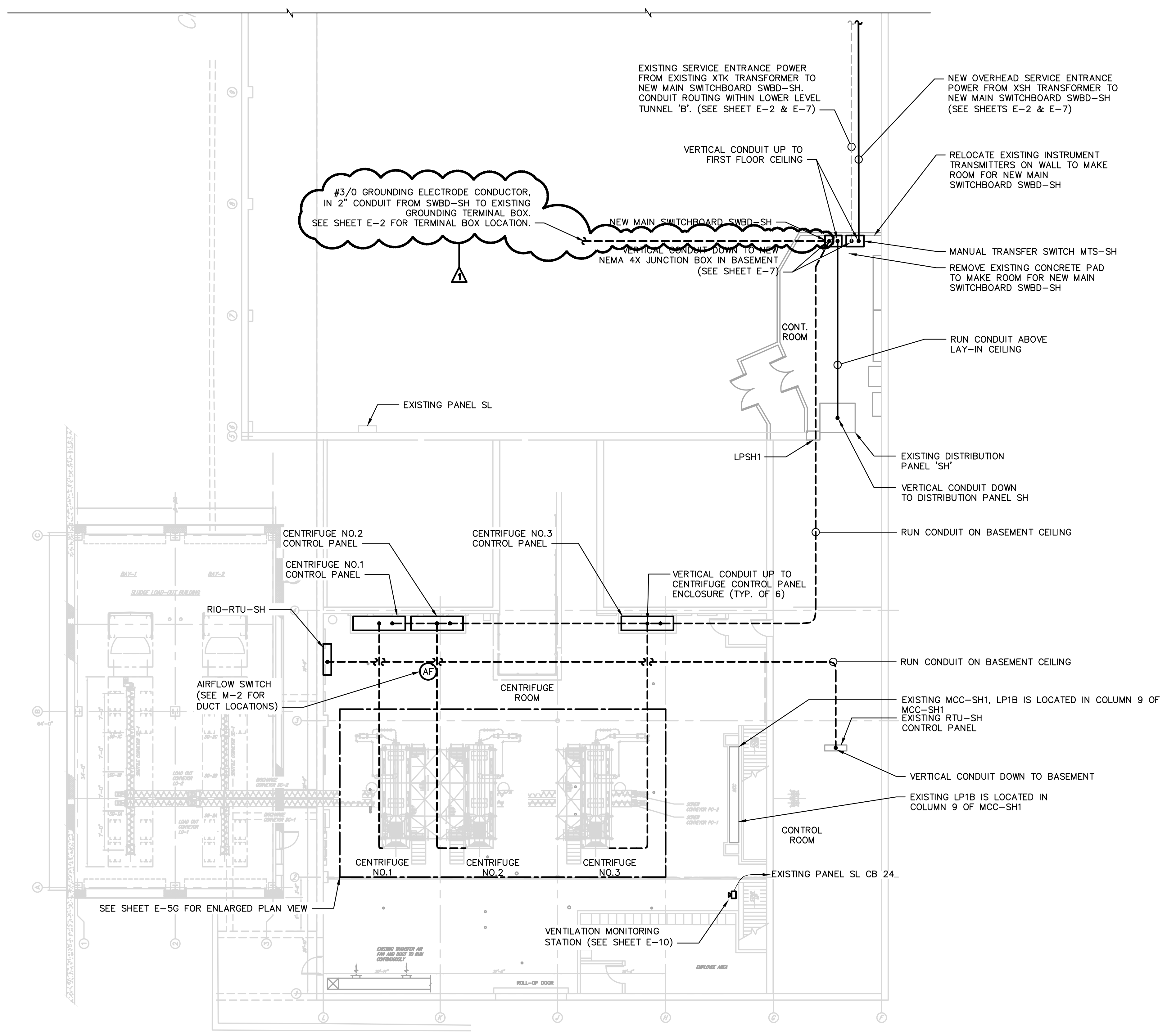
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**POWER PLAN NOTES:**

1. ALL OUTDOOR AREAS AND CENTRIFUGE AREA ARE CONSIDERED WET AND CORROSIVE LOCATIONS. CONTROL ROOMS ARE CONSIDERED DUSTY LOCATIONS. ALL MATERIALS, EQUIPMENT, INCIDENTALS, ETC. SHALL CONFORM TO THE REQUIREMENTS OF THE AREA'S CLASSIFICATION.
2. FOR CLARITY NOT ALL CONDUIT RUN AND HOMERUNS ARE SHOWN. REFER TO ONE LINE DIAGRAM (E-7) AND BLOCK DIAGRAM (E-9A/G) FOR CONDUIT AND CABLE INSTALLATION.
3. CONDUIT RUN SHOWN IS DIAGRAMMATIC FOR CONTRACTOR'S GUIDANCE. CONTRACTOR SHALL FIELD DETERMINE FINAL ROUTE TO AVOID INTERFERENCE WITH NEW AND EXISTING EQUIPMENT AND SYSTEM. PROVIDE CONDUIT SUPPORTS, CORE DRILLS, SEALING BUSHINGS AND INCIDENTALS AS REQUIRED.
4. SEE DRAWING E-3A FOR CENTRIFUGE ROOM LIGHTING PLAN.



**POWER PLAN – FIRST FLOOR**  
 SCALE: 3/32" = 1'-0"  
 4' 0 8' 16'

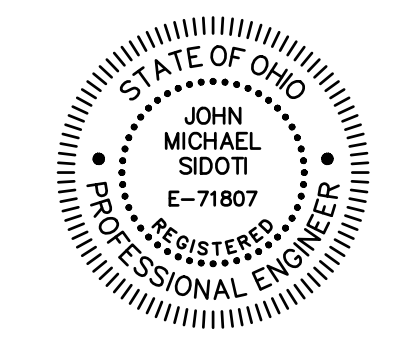


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**CITY OF CANTON**

**CANTON WATER RECLAMATION FACILITY  
 SLUDGE PROCESSING MODIFICATIONS  
 CONTRACT NO. 27**

ARCADIS PROJ. NO. AK000343.B002

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 FILE NAME: E-36  
 DESIGNED BY: NCP  
 DRAWN BY: NCP  
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SHEET TITLE

**ELECTRICAL**

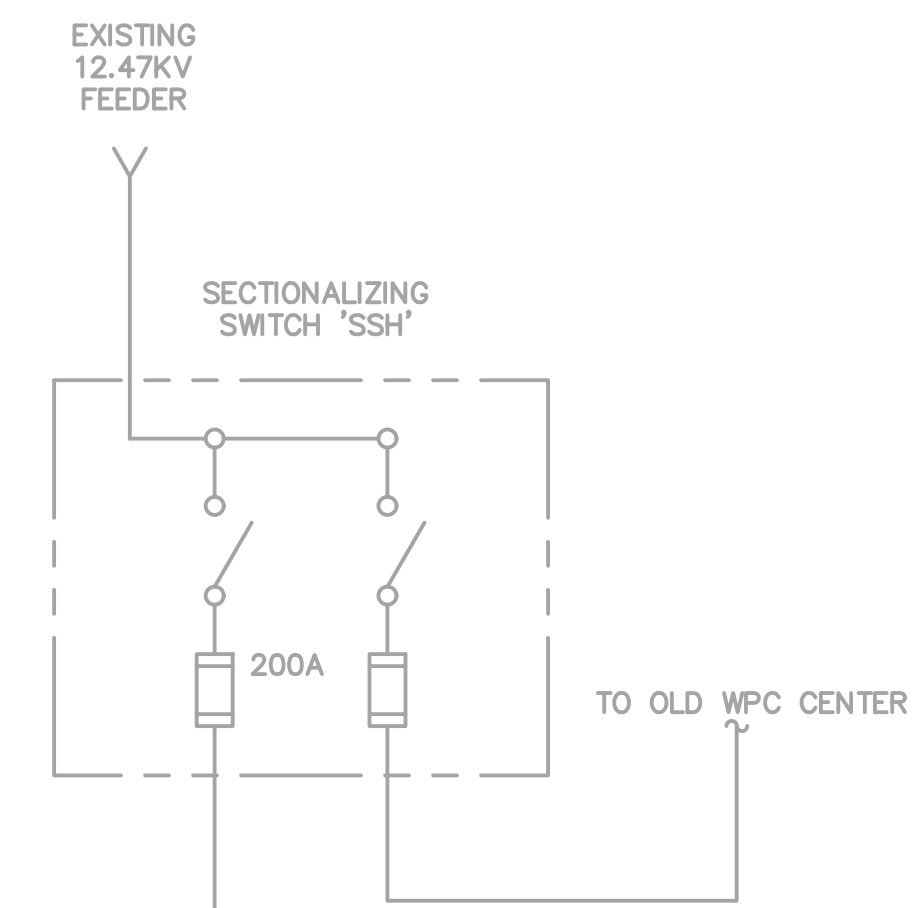
**POWER PLAN  
 SLUDGE HANDLING BUILDING – FIRST FLOOR, GEA**

SCALE: AS SHOWN

**E-36**

SHEET 42 OF 61

User: ZPYLE Spec: AUS-NCSSMOD File: \\ARCADIS-US.COM\OFFICE\DATA\ARON-01\PROJECT\AK000343.B002-CANTON\_SLUDGE\DRAWING\CADD\05-ELECTRICAL\CAD FILES\E-7.DWG Scale: 1:1 SavedDate: 6/19/2018 Time: 07:59 Scaled: 6/19/2018 07:59 Layout: 47

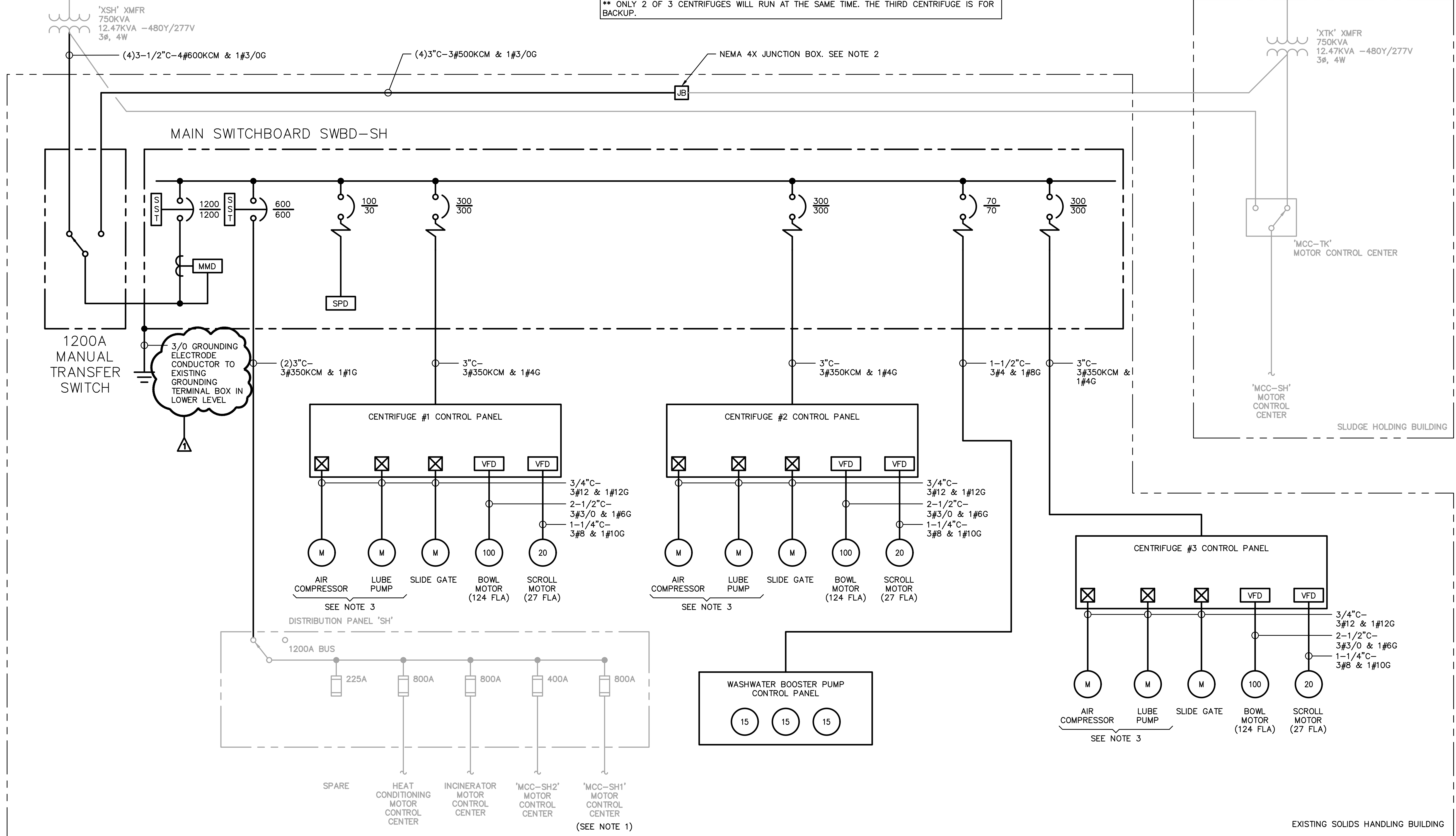


### MAIN SWITCHBOARD SWBD-SH LOAD LIST

EQUIPMENT	SERVICE FACTOR	AMPS
DISTRIBUTION PANEL SH *	1	253
CENTRIFUGE #1 CONTROL PANEL	1	150
CENTRIFUGE #2 CONTROL PANEL	1	150
CENTRIFUGE #3 CONTROL PANEL	0	150
PACKAGED BOOSTER PUMP STATION	1	52
TOTAL **	—	605

\* POWER MONITORING FOR DISTRIBUTION PANEL SH WAS COMPLETED BY HILSCHER-CLARKE FOR THE TIMEFRAME OF DECEMBER 15, 2017 THROUGH JANUARY 18, 2018. TO PROPERLY CAPTURE THE PEAK LOAD, THE AIR CONDITIONING UNIT WAS ADDED TO THE MAXIMUM LOAD RECORDED AND 125% OF THAT VALUE WAS TAKEN TO DETERMINE THE PEAK LOAD OF DISTRIBUTION PANEL SH.  
 \*\* ONLY 2 OF 3 CENTRIFUGES WILL RUN AT THE SAME TIME. THE THIRD CENTRIFUGE IS FOR BACKUP.

- NOTES:
- REFER TO SHEET E-8 FOR ADDITIONAL WORK REQUIRED
  - INTERCEPT AND EXTEND EXISTING CONDUCTORS FROM XTK XMFR TO FEED NEW MAIN SWITCHBOARD. SPLICE CONNECTION WITHIN A NEW NEMA 4X JUNCTION BOX, SIZED PER NEC, BELOW MAIN SWITCHBOARD SWBD-SH.
  - AIR COMPRESSOR AND LUBE OIL PUMP WILL ONLY BE INCLUDED IF GEA IS CHOSEN AS THE CENTRIFUGE SUPPLIER. IF GEA IS NOT SELECTED, AIR COMPRESSOR AND LUBE OIL PUMP AND CONDUIT/WIRES WILL NOT BE PROVIDED/INSTALLED.
  - SEE SPECIFICATION SECTION 26 05 26, GROUNDING AND BONDING OF ELECTRICAL SYSTEMS, FOR GROUNDING SPECIFICATIONS. A GROUND RESISTANCE TEST SHALL BE COMPLETED TO CONFIRM THE MAXIMUM RESISTANCE VALUE FOR GROUNDING SYSTEM IS ACHIEVED.
  - CONDUIT TYPES SHALL CONFORM WITH SPECIFICATION SECTION 26 05 33.13, RIGID CONDUIT AND SECTION 26 05 33.16, FLEXIBLE CONDUITS.
  - WIRE TYPES SHALL CONFORM WITH SPECIFICATION SECTION 26 05 19, LOW-VOLTAGE POWER CONDUCTORS AND CABLES.



LEGAL ENTITY:  
ARCADIS U.S., INC.

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CONSULTANTS

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**CITY OF CANTON**

**CANTON WATER RECLAMATION FACILITY  
SLUDGE PROCESSING MODIFICATIONS  
CONTRACT NO. 27**

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FILE NAME: E-7

DESIGNED BY: NCP

DRAWN BY: NCP

CHECKED BY: JMS

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SHEET TITLE

**ELECTRICAL**

**ONE LINE DIAGRAM-1**

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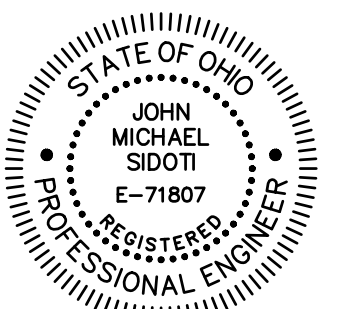
SCALE: NOT TO SCALE

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**E-7**

SHEET 47 OF 61





CITY OF CANTON

CANTON WATER RECLAMATION FACILITY  
SLUDGE PROCESSING MODIFICATIONS  
CONTRACT NO. 27

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FILE NAME: E-9A

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SHEET TITLE

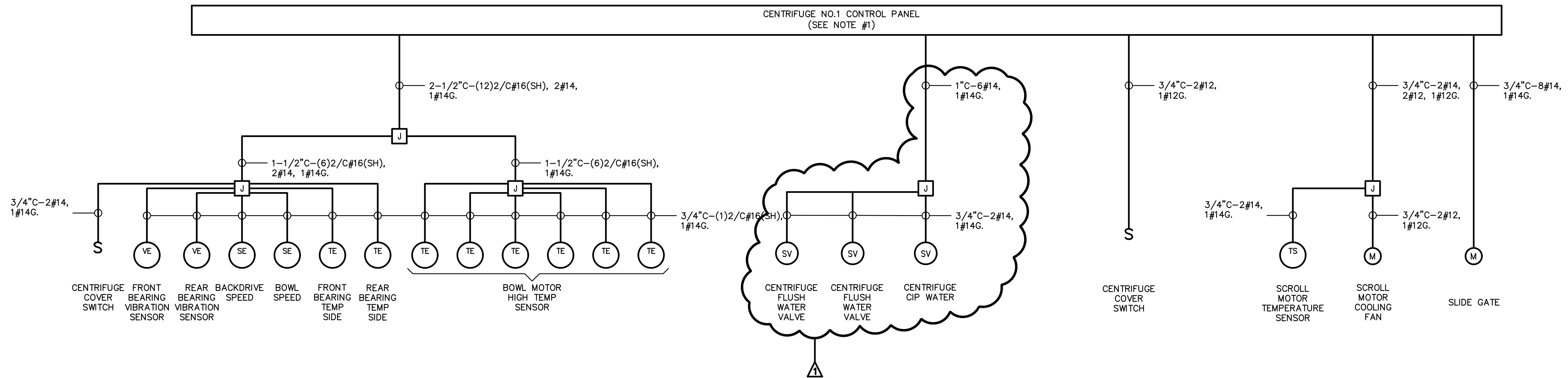
**ELECTRICAL**

**BLOCK DIAGRAM -  
ALFA LAVAL**

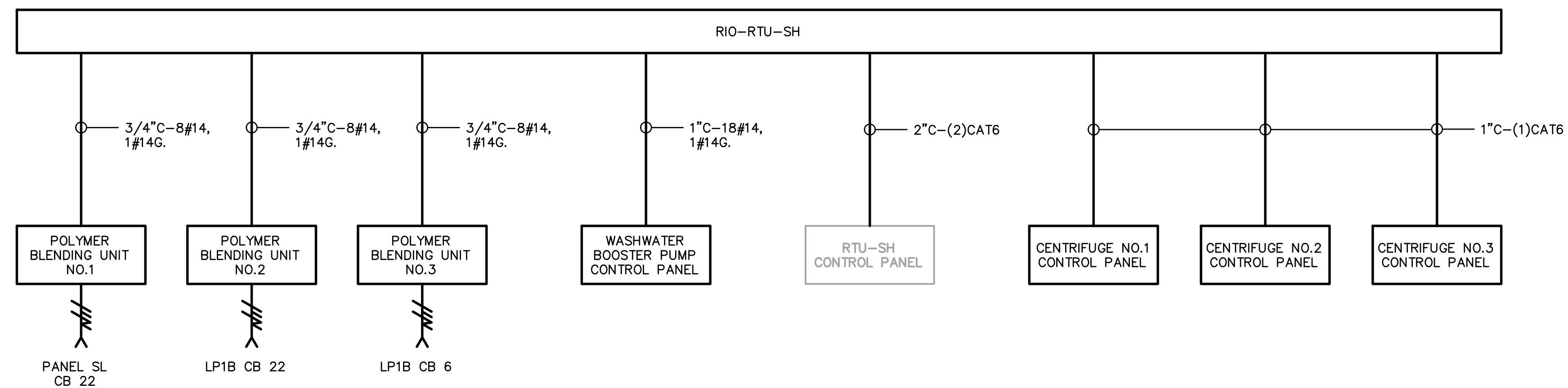
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**E-9A**

SHEET 49 OF 61



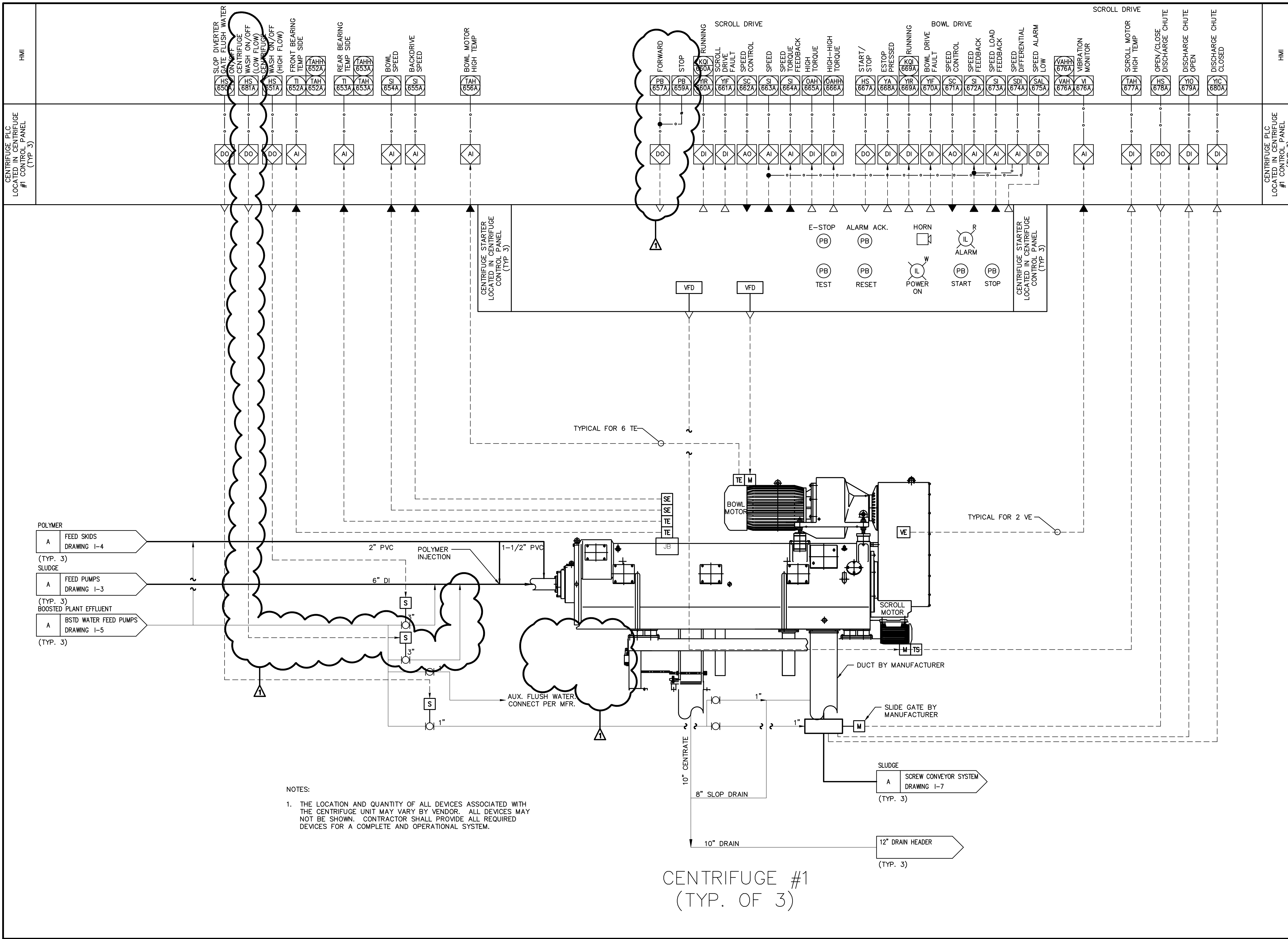
ALFA LAVAL CENTRIFUGE BLOCK DIAGRAM (TYP. FOR 3)



NOTES:

- IF ALFA LAVAL IS NOT SELECTED, ALFA LAVAL CENTRIFUGE EQUIPMENT AND CONDUIT/WIRES WILL NOT BE PROVIDED/INSTALLED.
- SEE SPECIFICATION SECTION 26 05 26, GROUNDING AND BONDING OF ELECTRICAL SYSTEMS, FOR GROUNDING SPECIFICATIONS.
- CONDUIT TYPES SHALL CONFORM WITH SPECIFICATION SECTION 26 05 33.13, RIGID CONDUIT AND SECTION 26 05 33.16, FLEXIBLE CONDUITS.
- WIRE TYPES SHALL CONFORM WITH SPECIFICATION SECTION 26 05 19, LOW-VOLTAGE POWER CONDUCTORS AND CABLES AND SECTION 26 05 23, INSTRUMENTATION AND COMMUNICATION CABLE.

User: ZP\LE Spec: AUS-NGS\MOD File: \\ARCADIS-US.COM\OFFICE\DATA\AKRON-OH\PROJECT\AK000343.B002-CANTON SLUDGE\DRAWING\CAD\INSTRUMENTATION\CAD FILES\1-6A.DWG Scale: 1:1 Saved Date: 6/19/2018 11:07:49 Plot Date: 6/19/2018 07:50 Layout: 58



NOTES:  
 1. THE LOCATION AND QUANTITY OF ALL DEVICES ASSOCIATED WITH THE CENTRIFUGE UNIT MAY VARY BY VENDOR. ALL DEVICES MAY NOT BE SHOWN. CONTRACTOR SHALL PROVIDE ALL REQUIRED DEVICES FOR A COMPLETE AND OPERATIONAL SYSTEM.

CENTRIFUGE #1  
(TYP. OF 3)

LEGAL ENTITY:  
ARCADIS U.S., INC.

---

CONSULTANTS

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SUB CONSULTANTS

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SEALS

STATE OF OHIO  
 JOHN MICHAEL SIDOTI  
 E-71807  
 REGISTERED PROFESSIONAL ENGINEER

---

**CITY OF CANTON**

**CANTON WATER RECLAMATION FACILITY  
 SLUDGE PROCESSING MODIFICATIONS  
 CONTRACT NO. 27**

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**ARCADIS PROJ. NO. AK000343.B002**

1	06/25/18	ADDENDUM 2	JMS		
NO.	DATE	ISSUED FOR	BY		

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DATE: MAY 2018

PROJECT NO.: AK000343.B002

FILE NAME: I-6A

DESIGNED BY: NCP

DRAWN BY: NCP

CHECKED BY: JMS

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SHEET TITLE

**INSTRUMENTATION**

**SLUDGE DEWATERING CENTRIFUGE 1, 2, AND 3  
 P&ID - ALFA LAVAL**

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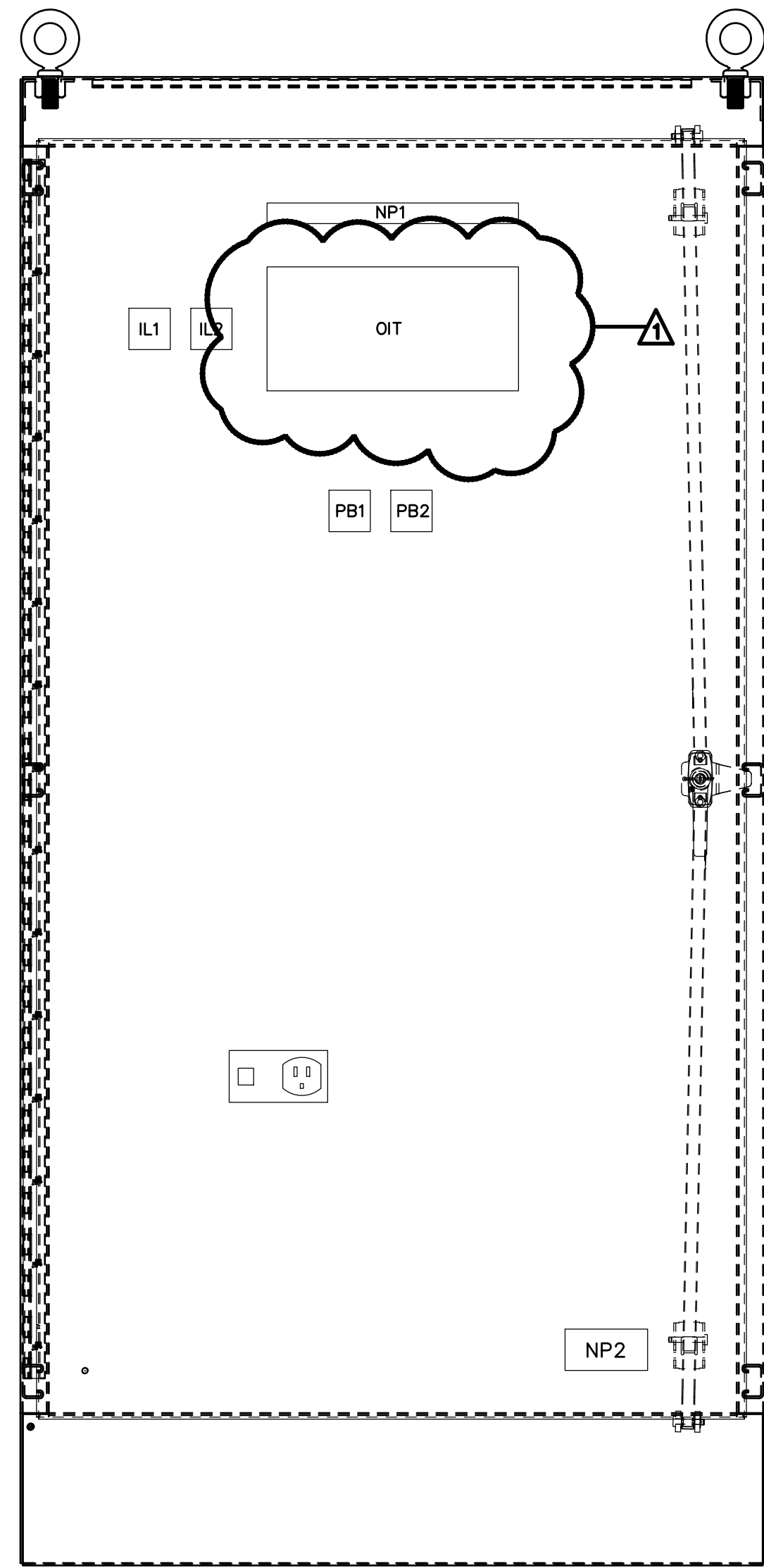
SCALE: NOT TO SCALE

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**I-6A**

SHEET 58 OF 61

User: ZPYLE Spec: AUS-NC5M000 File: \\ARCADIS-US.COM\OFFICE\DATA\AKRON-OH\PROJECT\AK000343.B002-CANTON-SLUDGE\DRAWING\CADD\06-INSTRUMENTATION\CAD FILES\1-8.DWG Scale: 1:1 SavedDate: 6/19/2018 Time: 07:51 Plot Date: Pyle, Zach 6/19/2018 07:52 Layout: 61



SLUDGE HANDLING BUILDING REMOTE I/O PANEL RIO-RTU-SH  
FRONT FACE LAYOUT

PAINTED STEEL, NEMA 4X

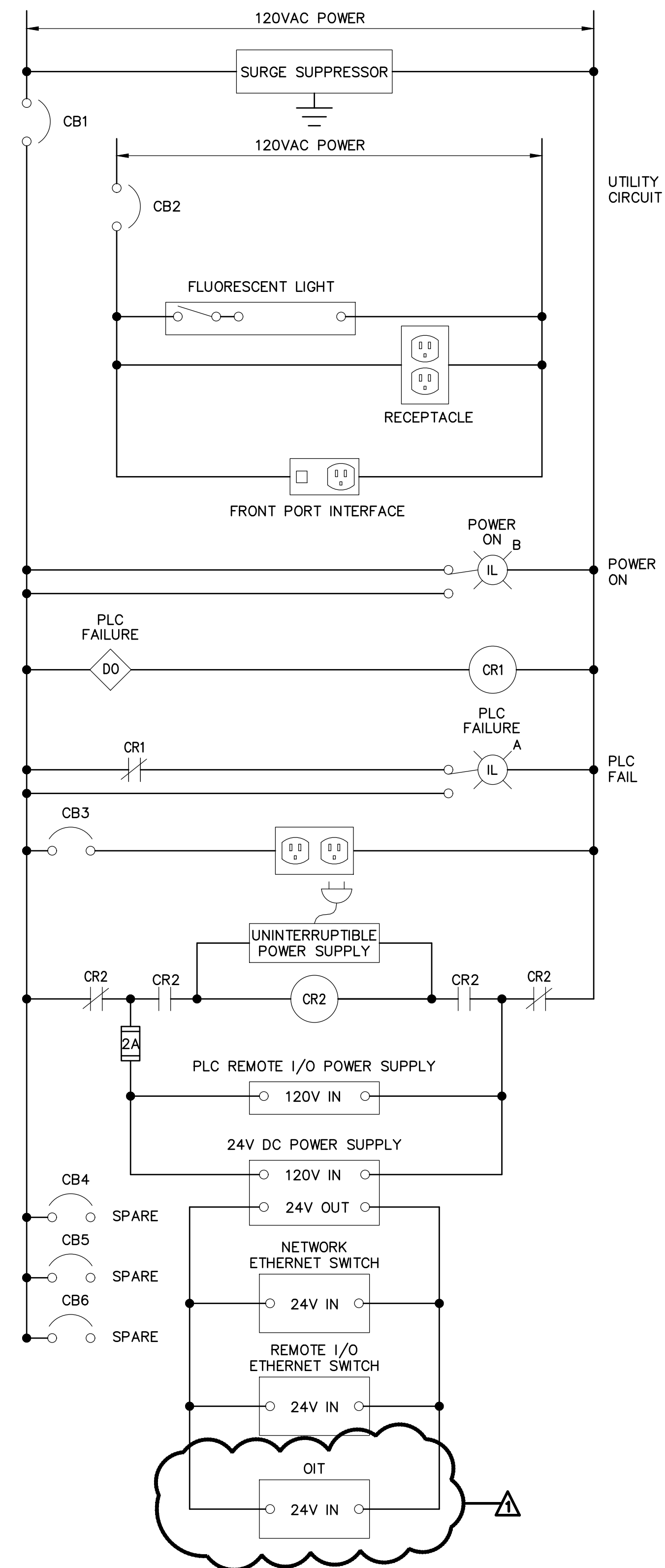
MINIMUM DIMENSIONS:  
72"H x 36"W x 18"D

NO.	LETTERING (N.)	NAMEPLATE TEXT
NP1	1/2	SLUDGE HANDLING BUILDING REMOTE I/O PANEL RIO-RTU-SH
NP2	3/8	WARNING - ORANGE WIRING NOT DE-ENERGIZED BY PANEL DISCONNECT

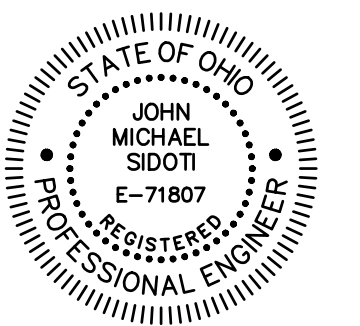
LIGHT NO.	LENS COLOR	TYPE	LEGEND PLATE TEXT
IL1	BLUE	TRANSFORMER	POWER ON
IL2	AMBER	TRANSFORMER	PLC FAIL

BUTTON NO.	BUTTON COLOR	TYPE	LEGEND PLATE TEXT
PB1	BLACK	PUSHBUTTON	TEST
PB2	BLACK	PUSHBUTTON	SILENCE

SLUDGE HANDLING BUILDING REMOTE I/O  
PANEL RIO-RTU-SH COMPONENT DESCRIPTIONS



SLUDGE HANDLING BUILDING REMOTE I/O PANEL RIO-RTU-SH  
PARTIAL WIRING DIAGRAM



NO.	DATE	ISSUED FOR	BY
1	06/25/18	ADDENDUM 2	JMS

**Sludge Processing Modifications, Contract 27  
Water Reclamation Facility**

**Proposal Pages  
Sludge Processing Modifications, Contract 27**

**BASIS OF BID**

Bidder will complete the work in accordance with the Contract Documents for the following price(s):

ITEM NO.	DESCRIPTION	EST. QTY	ITEM TOTAL
1.	Sludge Processing Modifications, complete, lump sum	1	
2.	I & C Equipment, Programming and Configuration Services	1	\$146,000
3.	General Allowance	1	\$200,000

TOTAL BID, IN FIGURES	\$	
TOTAL BID, IN WORDS	\$	

**BASE BID MANUFACTURERS (CONTRACT B ONLY)**

The Contract Documents have been prepared using specific manufacturers for certain equipment and materials, and the prices provided by Bidder shall be based on the manufacturers specified and listed below as Base Bid Manufacturers. For items that list only one manufacturer, that manufacturer's equipment or material shall be included in the Base Bid. For items that list more than one manufacturer, Bidder shall indicate, by placing an "X" in the spaces ( ) provided, the manufacturer proposed to be furnished as part of the Base Bid. One and only one "X" shall be entered for each Base Bid item with more than one listed manufacturer. If Bidder marks more than one manufacturer or fails to mark one where required for a particular piece of equipment or material, the equipment or material provided under the Contract shall be that as selected by Owner from the listed Base Bid Manufacturers.

**Please check the box indicating which manufacturer is considered as the basis of your Cost Proposal.**

SECTION NO.	EQUIPMENT OR MATERIAL	X	BASE BID MANUFACTURERS
46 76 33	Dewatering Centrifuges	( )	Alfa Laval, Inc.
		( )	GEA Westfalia Separator Division of GEA Mechanical Equipment U.S., Inc.