"RE-BUILDING THE CITY'S WATER SYSTEMS FOR THE 21ST CENTURY"

Sewerage & Water Board OF NEW ORLEANS

625 ST. JOSEPH STREET
NEW ORLEANS, LA 70165 • 504-529-2837 OR 52-WATER
www.swbno.org

Addendum No. 2

Date: 12/13/2023

Your reference is directed to **Contract Number:** 2023-SWB-97 (Contract 1420) for WPC Phase 1 Equipment Installation which is scheduled to open at **11:30 a.m. CST** on **January 15, 2024** for SWBNO Civil Engineering Department.

This addendum provides for the following:

1. Pre-Bid #2 2023-SWB-97 Contract 1420 West Power Complex (WPC) Phase 1 Equipment Installation and Commissioning

   A **MANDATORY** pre-bid conference will be held on **December 18, 2023,** at **11:00 a.m.** Central Time at the Sewerage and Water Board of New Orleans, Carrollton Water Plant Auditorium Room E202, located at 8800 S Claiborne Ave, New Orleans, Louisiana, 70118. If you are unable to attend this in-person meeting, you can also join via teleconference call:

   Microsoft Teams meeting
   Join on your computer, mobile app or room device
   Meeting ID: 238 700 780 609
   Passcode: SkLr25
   Or call in (audio only)
   +1 504-224-8698,,835935079# United States, New Orleans
   Phone Conference ID: 835 935 079#

   Bidders who attended the previous mandatory pre-bid meeting held on Friday, December 8, 2023 are not required to attend.

   All prospective bidders shall be present at the beginning of the pre-bid conference and shall remain in attendance for the duration of the conference. Any prospective bidder who fails to attend the pre-bid conference or remain for the duration shall be prohibited from submitting a bid for the project.

2. DBE Percentage Correction

   Section 00 47 17, Page 1 (Disadvantaged Business Enterprise Program) – Replace 'The prime contractor shall be required to make a demonstrate good faith effort to award (25%) of the amount of the contract….' To 'The prime contractor shall be required to make a demonstrate good faith effort to award **30%** of the amount of the contract….'

3. Section 01 11 01, Project Summary of Work, Paragraph 1.01.C.3.D, REVISE as follows.

   Electrical and control cable supply: Note that Contractor is responsible for shipment of cable from Suppliers warehouse in Destrehan or Metarie, LA (location at the discretion of Supplier) to the project site. Refer to CP1435 for details regarding shipping and the quantity of cable 'cuts' provided by CP1435 Supplier.

4. Section 01 11 01, Project Summary of Work, Paragraph 1.03, DELETE the table in its entirety and REPLACE it with the following table.

Separable Portion	Description	Milestone	
All	Anticipated NTP		**01-Apr-24**
2	CTG T7 & Auxiliary Switchgear (PDC-1)	Area Foundations Complete	02-Aug-24
		RFC	29-Mar-25
		Substantial Completion	**31-May-25**
1	SFC 1 & Interim Switchgear (PDC-2)	Area Foundations Complete	01-Apr-24
		RFC	30-Nov-24
		Substantial Completion	**26-Apr-25**
3	GSU's	Area Foundations Complete	28-Jun-24
		RFC	30-Nov-24
		Substantial Completion	**26-Apr-25**
5	FO Forwarding Pumps	Foundations	N/A
		RFC	02-Feb-25
		Substantial Completion	**26-Apr-25**
6	FO Supply Pumps, FO Return Pumps, FO Day tank	Area Foundations Complete	02-Aug-24
		RFC	29-Mar-25
		Substantial Completion	**31-May-25**
7	BOP Miscellaneous Equipment	Area Foundations Complete	02-Aug-24
		RFC	29-Mar-25
		Substantial Completion	**31-May-25**
8	GCS PDCS BOP PSS PLC, HMI	RFC	30-Nov-24
		Substantial Completion	**31-May-25**
4	SFC 2	Area Foundations Complete	01-Apr-24
		RFC	28-Dec-24
		Substantial Completion	**26-Apr-25**
Alternate	SFC 3 - Alternate	Area Foundations Complete	01-Apr-24
		RFC	02-Feb-25
		Substantial Completion	**12-May-25**
All	Facility Substantial Completion		**05-Jun-25**
All	Project Substantial Completion		**05-Jun-25**

5. SWBNO – Contract Days – 430 Days

   Section 00 52 13 – Section 4.2.1 – Replace 'The Work shall be substantially completed within [ ] calendar days from the date when the Contract Times commence to run as provided in Paragraph 2.03 of the General Conditions, and completed and ready for final payment in accordance with Paragraph 14.07 of the General Conditions within [ ] calendar days after the date when the Contract Times commence to run.]' to 'The Work shall be substantially completed within **430** calendar days from the date when the Contract Times commence to run as provided in Paragraph 2.03 of the General Conditions, and completed and ready for final payment in accordance with Paragraph 14.07 of the General Conditions within **430** calendar days after the date when the Contract Times commence to run.

6. SWBNO – Pre-bid Meeting held December 8th, 2023 at 9:00AM Presentation Slides
   a. See Attached pages 4-60

7. SWBNO – Pre-Bid Meeting held December 8th, 2023 at 9:00AM Attendance Sheet
    a. See Attached pages 61-63

8. Updated Bid Form – Section 00 41 13
    a. See Attached pages 64-74

9. This Addendum includes the following attachments:
    a. SFC PDC Re-Installation Details. See Attached pages 75-113
    b. Utility Switchgear Feeder and Conduit drawings and photos. See Attached pages 114-128

Contract 1420: West Power Complex Phase 1 Equipment Installation and Commissioning

Pre-Bid Meeting

Solicitation No. 2023-SWB-97

December 8, 2023

Pre-Bid Meeting Agenda

Moment of Care

Key Bid Information

Project Overview

- Purpose
- Summary of Work Overview

Project Details

- Equipment Installation
- Control System Integration
- Commissioning and Completions

Construction Considerations

- Site Access and Key Considerations
- Schedule

Wrap up

- Questions and Site Walk

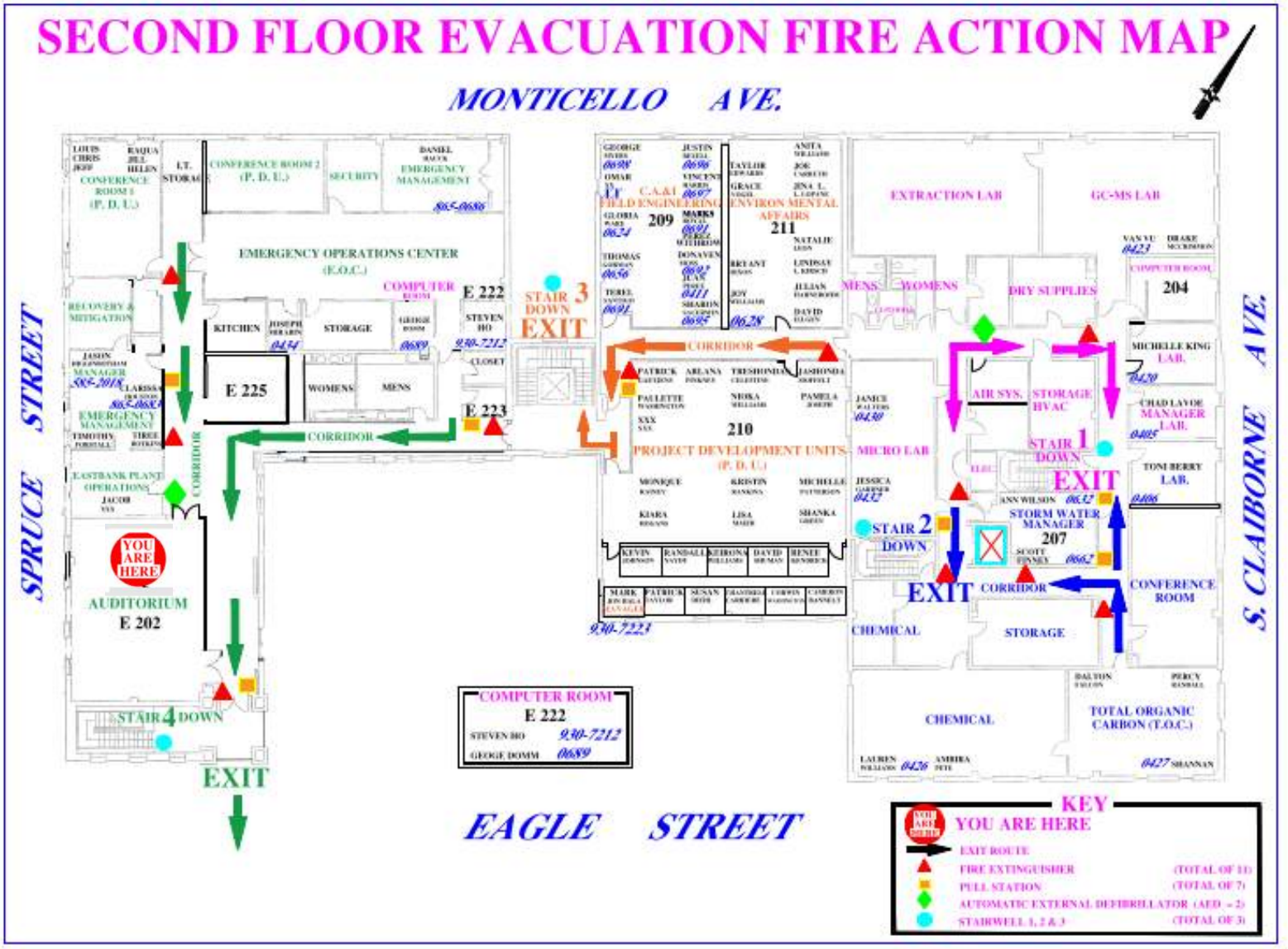
9:00 to 10:30
Presentation & Discussion

10:30 to 12:00
Site Walk

12:00 to 1:00
Travel to Belle Chase

1:00 to 2:00
SFC-1 Walk Through

Moment of Care



Bid Schedule

Last day for questions:	Dec 21, 2023
Last day to issue Addendums:	Jan 5, 2024
Bids due:	Jan 15, 2024

Bid Reminders

Read instructions and follow exactly

- DBE Requirements
- Signature Requirements
- Bid Form Requirements

ECONOMICALLY DISADVANTAGED BUSINESS PARTICIPATION SUMMARY SHEET

Minimum Percentage Goal Participation for this Contract is ____%

Contract Name and # _____

Name and Address of Disadvantaged Business Enterprise Company	Name of Contact Person	Scope of Work to be Performed	Dollar Amount of work to be performed	Percentage of Dollar Amount to Total Bid Price
ONLY use companies listed in the most current listing posted on the S&WB Website; www.swbno.org ⇨Doing Business ⇨Business Programs ⇨Disadv. Businesses ⇨Search the SLDBE Directory DBEs may bid as primes but cannot count their own participation towards meeting the DBE subcontracting goal.	The name of the person representing the DBE company that negotiated terms with your company	Must be an area that the DBE is certified to perform and is a commercially useful function directly related to the completion of this project. Construction companies cannot perform as suppliers if they are not performing the installation or associated work The Sewerage and Water Board of New Orleans recognizes the DBE participation of regular dealers, and manufacturers, The Sewerage and Water Board of New Orleans does not recognize brokers or packagers as regular dealers, nor manufacturers.	The dollar value negotiated with the DBE to perform the scope of work	The percentage of the negotiated dollar value of the scope of work, relative to the total bid of the prime contractor. If total percentage is not equal or greater than goal, follow instructions in specification of documenting Good Faith Effort.

THIS FORM MUST BE COMPLETED AND SUBMITTED BY THE TWO LOWEST NUMERICAL BIDDERS, ALONG WITH SIGNED CORRESPONDENCE FROM DBE(s) ON THEIR OWN LETTERHEAD REAFFIRMING NEGOTIATED TERMS, NO LATER THAN 3 DAYS AFTER THE BID OPENING (EXCLUSIVE OF SATURDAYS, SUNDAYS AND HOLIDAYS). FAILURE TO DO SO WILL RENDER THE BID NON-RESPONSIVE.

BY SUBMITTAL OF THIS FORM, PRIME CONTRACTOR ACKNOWLEDGES THAT DBE(S) HAVE BEEN CONTACTED AND A FIRM PRICE HAS BEEN OBTAINED.

DBE

- CORRECTION – 30% DBE percentage (to be issued in addenda)
- Utilize SLDBE list at the link below
  - https://www.swbno.org/Business/DisadvantagedBusinesses
- Review list for the type of services needed – electrical, mechanical, demo, general construction, etc.
- Contact vendors and discuss scope and pricing; obtained signed letterhead
- If unable to meet the goal (30%) – document good faith efforts (refer to specs)
  - Attempts (emails) to vendors, with adequate information and time to respond
  - Advertisements for services
  - Did not unduly reject DBE's without cause

Disadvantaged Business Program Overview

The Sewerage and Water Board of New Orleans offers firms exciting business opportunities in Professional Services, Construction, Goods and Services through its Economically Disadvantaged Business Program (EDBP).

To ensure that a broad spectrum of local and small businesses receive equitable contracting opportunities with the Sewerage & Water Board of New Orleans Board, its Board of Directors authorized the State Local Disadvantaged Business Enterprise Program since September 1997.

In 2015, local and small business contracting totaled over $15 million in construction, goods/services and professional services. Along with local partnering agencies, the State and Local Disadvantaged Business Program creates a level playing field of which small businesses and DBEs can compete fairly for local government funded contracts.

The S&WB strongly encourages participation by Disadvantaged Business Enterprises (DBE) on all open market bids and RFPs.

Certification Application Process Now Available Online

The City of New Orleans in partnership with the Sewerage and Water Board, New Orleans Aviation Board and Harrah's New Orleans, which operates the State and Local Disadvantaged Business Enterprise Program is pleased to announce our Vendor Electronic Certification System. This system allows vendors the ability to complete an on-line application for certification, update contact information, look-up certified firms, as well as report contract payment information.

SEARCH THE SLDBE DIRECTORY | APPLY FOR SLDBE CERTIFICATION / RE-CERTIFICATION | LOGIN TO THE SLDBE SYSTEM

Participation

Participation is, by definition, done by subcontractors. **A prime contractor cannot fulfill the participation goal.** A DBE certified company acting as the prime contractor must subcontract with other DBE companies to meet the bid goal.

DBE Participation Goals are included in the bid documents and if additional information is needed regarding certification or SLDBE Goals, please contact the Economically Disadvantaged Business Program..

DBE, Co., Inc.

Date

Street Address
City, ST ZIP Code

Dear **Prime Contractor**:

Per negotiations, we acknowledge that we will (**Scope of Work**) for (**Dollar Amount**) in regard to (**SWBNO Project Name**) .

Sincerely,

Company Representative Name

Company Representative Name

QUOTE

4321 Maplewood Ave., Nashville, TN 12345
(123) 456-7890| (123) 456-7891
relecloud@example.com

INVOICE # 111
Date: 1/9/23

Expiration Date: 2/9/23

To:
Joe Blegux
Prime Contractors Group
89 Pacific Ave.
San Francisco, CA 54321
(123) 789-0123
Customer ID No. 0549

Qty	Description	Unit price	Line total
2	Large Widgets	100.00	200.00
2	Small Smidgets	500.00	1,000.00
		Subtotal	1,200.00
		Sales Tax	0.00
		Total	1,200.00

Quotation prepared by: *Jane Deaux*

This is a quotation on the goods named, subject to the conditions noted below: All sales final, payment due upon receipt.

To accept this quotation, sign here and return: *Prime Contractor*

Thank you for your business!

HUD Section 3 Compliance

- Project is partially funded by HUD EDI grant

→'Section 3' compliance is an added requirement

→Attachment F in the Front Ends includes the contract clauses as required by HUD

1. What is Section 3?
2. Contractor Requirements
3. SWBNO Support

Section 3 Requirements

Benchmarks

- **25 percent** or more of the total number of labor hours worked by all workers on the project shall be performed by **Section 3 workers**, and
- **5 percent** or more of the total number of labor hours worked by all workers on the project shall be performed by **Targeted Section 3 workers**.
- Total project labor hours does not include hours for professional services, but any hours conducted by a Section 3 worker on professional services tasks count to the total Section 3 labor hours

$$\frac{\text{Section 3 Labor Hours}}{\text{Total Labor Hours}} = 25\%$$

AND

$$\frac{\text{Targeted Section 3 Labor Hours}}{\text{Total Labor Hours}} = 5\%$$

Using Section 3 businesses is not a direct requirement, but attempts to contract with Section 3 businesses must be documented

Key Definitions

Section 3 Residents: Individuals residing in the area where the HUD assistance is expended. Public housing residents or low-income persons who live in the metropolitan area or non-metropolitan county where the Section 3 covered project is located.

Section 3 Worker: Any worker who currently fits or when hired within the past five years fit at least one of the following categories, as documented:

1. The worker's income for the previous or annualized calendar year is below the income limit established by HUD.
2. The worker is employed by a Section 3 business concern.

Targeted Section 3 Worker: for Housing and Community Development Financial Assistance, as defined in 24 CFR §75.21, means a Section 3 worker who is:

1. A worker employed by a Section 3 business concern; or
2. A worker who currently fits or when hired fit at least one of the following categories, as documented within the past five years:
    a. Living within the service area or the neighborhood of the project; or
    b. A YouthBuild participant.

FY 2023 Income Limits Summary

FY 2023 Income Limit Area	Median Family Income	FY 2023 Income Limit Category	Persons in Family							
			1	2	3	4	5	6	7	8
New Orleans-Metairie, LA HUD Metro FMR Area	$82,000	Very Low (50%) Income Limits ($)	$ 28,700	$ 32,800	$ 36,900	$ 41,000	$ 44,300	$ 47,600	$ 50,850	$ 54,150
		Extremely Low Income Limits ($)	$ 17,250	$ 19,720	$ 24,860	$ 30,000	$ 35,140	$ 40,280	$ 45,420	$ 50,560
		Low (80%) Income Limits ($)	$ 45,950	$ 52,500	$ 59,050	$ 65,600	$ 70,850	$ 76,100	$ 81,350	$ 86,600

Contractor Requirements

- Bidders are required to submit a Section 3 Plan as part of their post-bid documents submission.
  - This form acknowledges "intent to comply" with Section 3 requirements
  - Includes an initial estimate of total project labor hours required, along with subcontractors
- Conduct outreach efforts to employee Section 3 workers and businesses
- Document qualitative 'good faith' efforts to meet benchmarks
- Submit quarterly and project end reports using the provided Section 3 Compliance Report form along with any supporting documentation of qualitative efforts and achievements.

SWBNO Support and Requirements

- Partnership with City and HANO (Housing Authority of New Orleans) to provide access to existing business and worker registries
- Maintains worker and business registry specific to this project
- Support with outreach events (job site poster, job fairs)
- Reporting to HUD on project status and ‘good faith efforts’ if needed

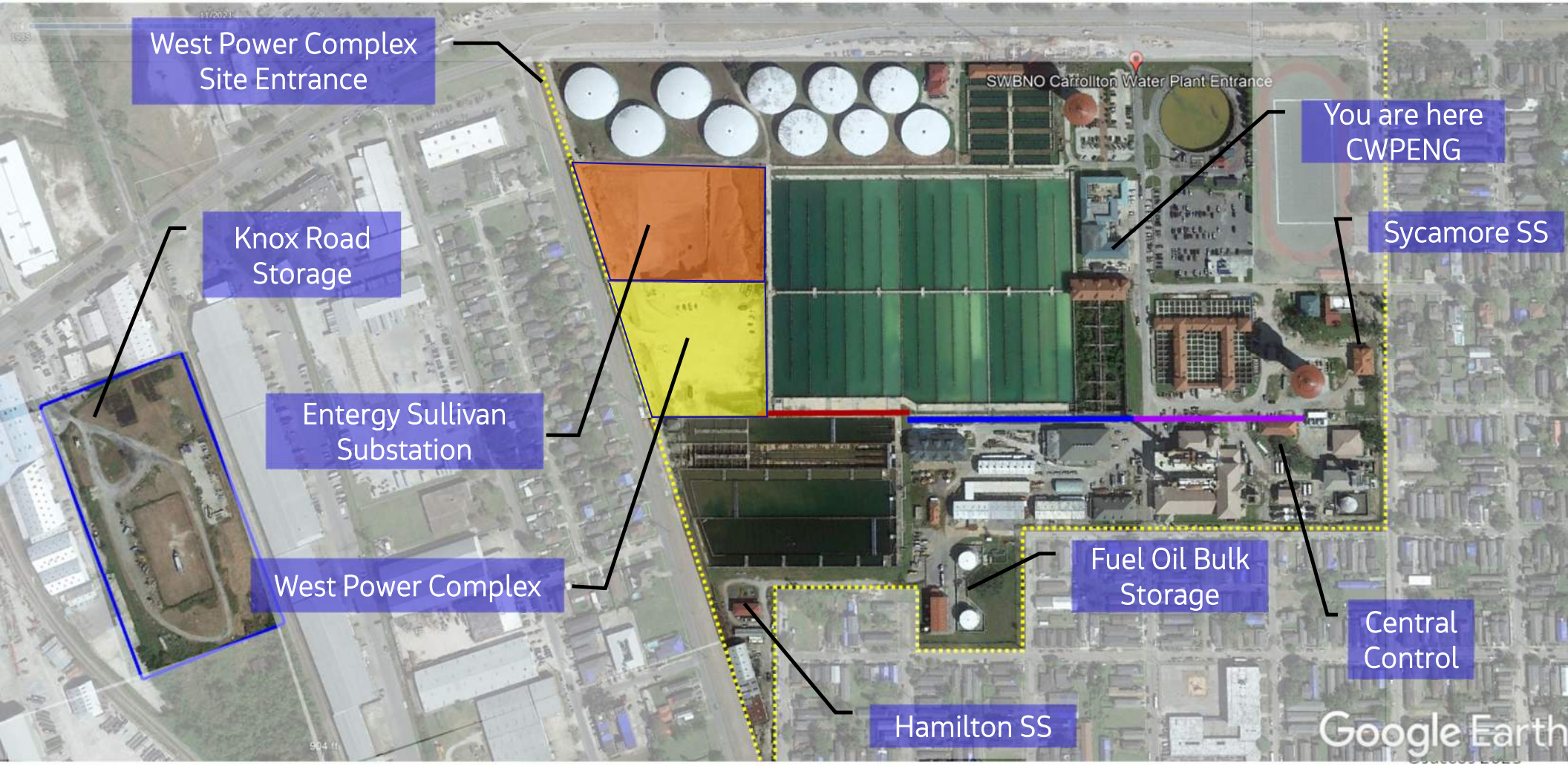
Project Overview

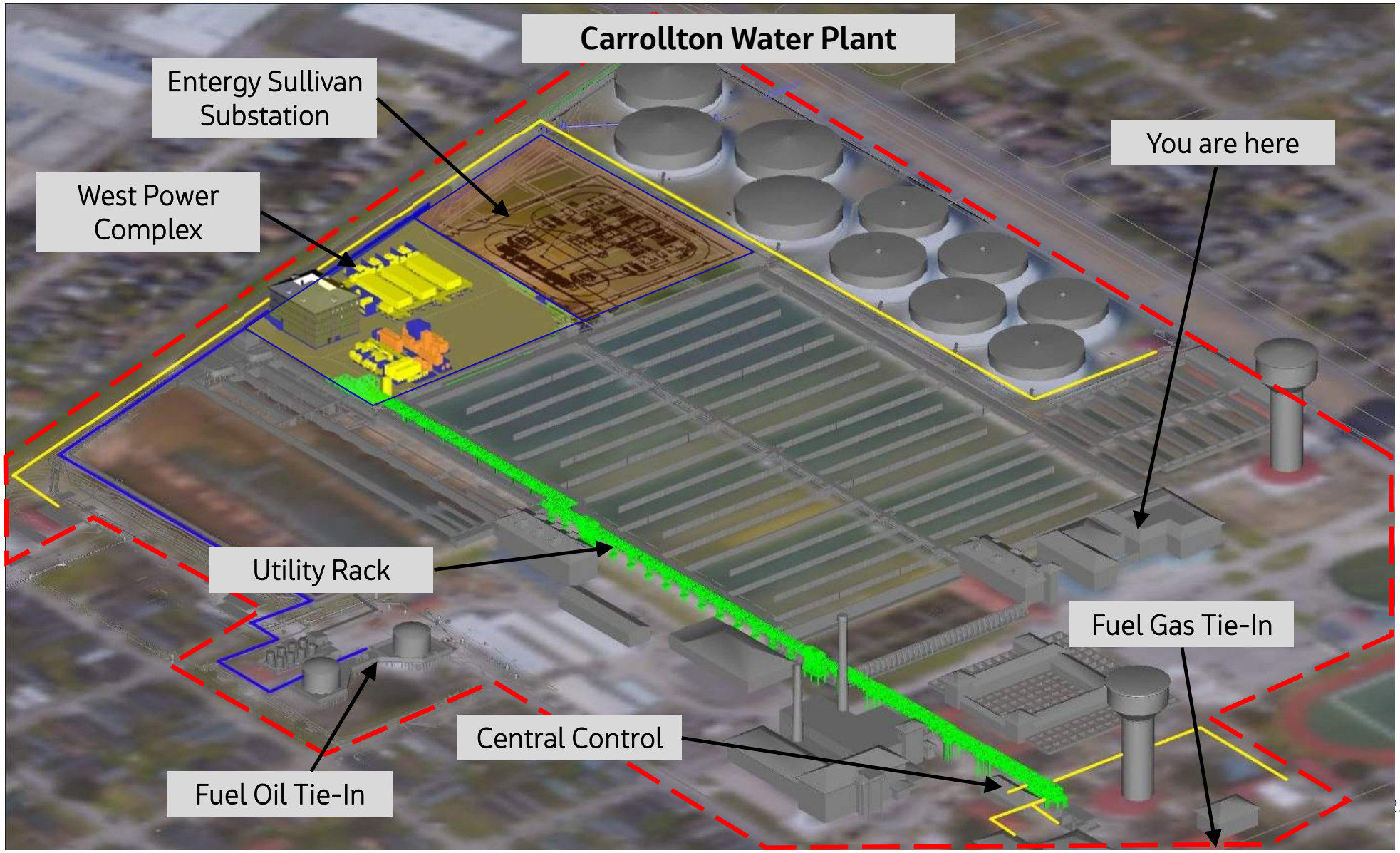
Project Purpose

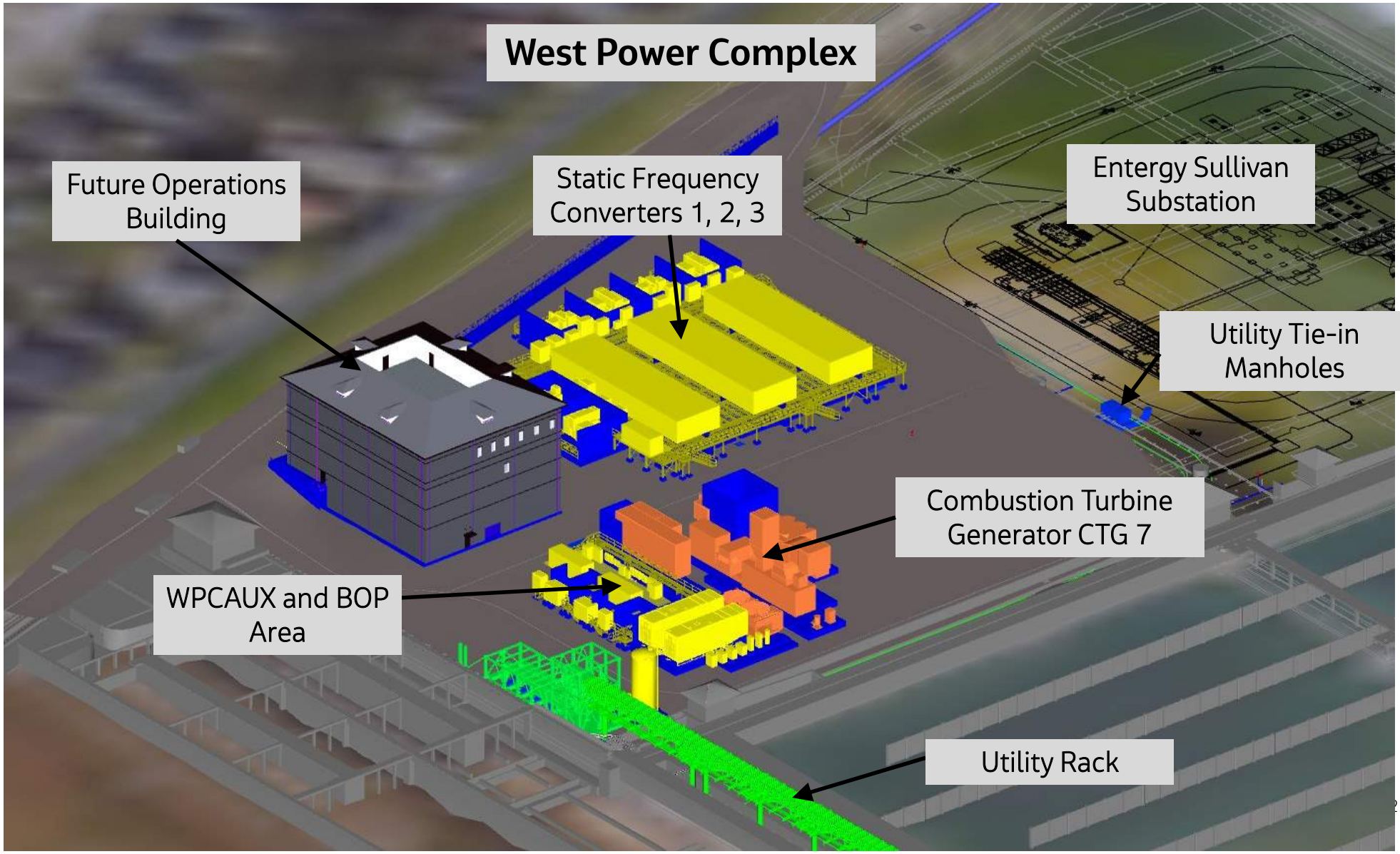
..achieve an interconnected highly reliable mega-watt scale power supply and distribution system between the 60-Hz Utility source and the 60-Hz and 25-Hz loads on the SWBNO managed electrical network.

The intent of the WPC is to improve the resiliency and reliability of critical SWBNO managed electrical network infrastructure.

Carrollton Water Treatment Plant



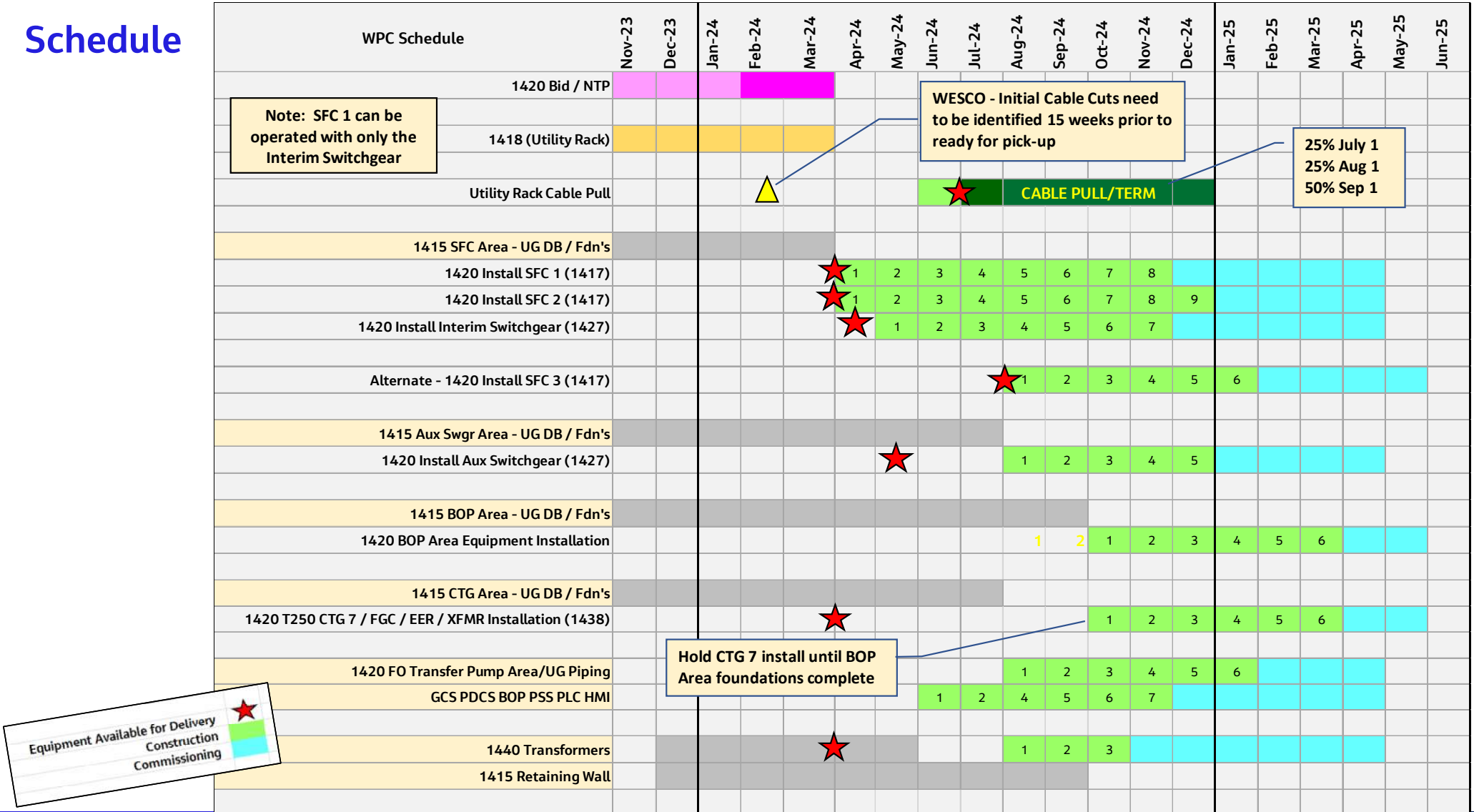

Carrollton Water Plant
Entergy Sullivan Substation
West Power Complex
You are here
Utility Rack
Fuel Gas Tie-In
Central Control
Fuel Oil Tie-In


West Power Complex
Future Operations Building
Static Frequency Converters 1, 2, 3
Entergy Sullivan Substation
Utility Tie-in Manholes
Combustion Turbine Generator CTG 7
WPCAUX and BOP Area
Utility Rack

Milestone Schedule

Separable Portion	Description	Milestone		
All	Anticipated NTP		~~29-Feb-24~~	01-Apr-24
2	CTG T7	RFC	~~18-Sep-24~~	29-Mar-25
		Substantial Completion	~~14-Mar-25~~	31-May-25
1	SFC 1	RFC	~~24-Feb-25~~	30-Nov-24
		Substantial Completion	~~14-Mar-25~~	26-Apr-25
3	GSU's	RFC	~~24-Feb-25~~	02-Feb-25
		Substantial Completion	~~14-Mar-25~~	26-Apr-25
5	FO Forwarding Pumps	RFC	~~24-Feb-25~~	02-Feb-25
		Substantial Completion	~~14-Mar-25~~	26-Apr-25
6	FO Supply Pumps, FO Return Pumps, FO Day tank	RFC	~~24-Feb-25~~	02-Feb-25
		Substantial Completion	~~14-Mar-25~~	26-Apr-25
7	BOP Miscellaneous Equipment	RFC	~~24-Feb-25~~	29-Mar-25
		Substantial Completion	~~14-Mar-25~~	31-May-25
8	GCS PDCS BOP PSS PLC, HMI	RFC	~~24-Feb-25~~	30-Nov-24
		Substantial Completion	~~14-Mar-25~~	26-Apr-25
4	SFC 2	RFC	~~24-Mar-25~~	28-Dec-24
		Substantial Completion	~~11-Apr-25~~	26-Apr-25
Alternate	SFC 3 - Alternate	RFC	~~21-Apr-25~~	02-Feb-25
		Substantial Completion	12-May-25	
All	Facility Substantial Completion		~~24-Jun-25~~	05-Jun-25
All	Project Substantial Completion		~~24-Jun-25~~	430 Days

Schedule


WPC Schedule
Nov-23
Dec-23
Jan-24
Feb-24
Mar-24
Apr-24
May-24
Jun-24
Jul-24
Aug-24
Sep-24
Oct-24
Nov-24
Dec-24
Jan-25
Feb-25
Mar-25
Apr-25
May-25
Jun-25
1420 Bid / NTP
1418 (Utility Rack)
Utility Rack Cable Pull
CABLE PULL/TERM
Note: SFC 1 can be operated with only the Interim Switchgear
WESCO - Initial Cable Cuts need to be identified 15 weeks prior to ready for pick-up
25% July 1
25% Aug 1
50% Sep 1
1415 SFC Area - UG DB / Fdn's
1420 Install SFC 1 (1417)
1420 Install SFC 2 (1417)
1420 Install Interim Switchgear (1427)
Alternate - 1420 Install SFC 3 (1417)
1415 Aux Swgr Area - UG DB / Fdn's
1420 Install Aux Switchgear (1427)
1415 BOP Area - UG DB / Fdn's
1420 BOP Area Equipment Installation
1415 CTG Area - UG DB / Fdn's
1420 T250 CTG 7 / FGC / EER / XFMR Installation (1438)
Hold CTG 7 install until BOP Area foundations complete
1420 FO Transfer Pump Area/UG Piping
GCS PDCS BOP PSS PLC HMI
1440 Transformers
1415 Retaining Wall
Equipment Available for Delivery
Construction
Commissioning

Project Details

Owner Provided Equipment – Reference Volume 4 Documentation

CP-1417 – SFC's

- **WPCSFC1** & **WPCSFC2** enclosures, associated 25-Hz and 60-Hz transformers and other associated equipment. Available for delivery from Belle Chase, Louisiana April 2024.
- **WPCSFC3** enclosure (Alternate), associated 25-Hz and 60-Hz transformers and associated equipment. Available for delivery from Belle Chase, Louisiana July 2024.

CP-1427 - Auxiliary Switchgear

- **WPCAUX PDC-1 & WPCAUX PDC-2** switchgear, enclosures and other associated equipment. Available for delivery from Belle Chase, Louisiana April/May 2024.

CP-1438 - CTG 7

- **WPCCTG 7** 22MW dual fuel combustion turbine generator and ancillary equipment including **CTG7** Electrical Enclosure Room (EER), Fuel Gas Compressor, CTG7 480V Transformer and other associated equipment. Available for delivery from Houston, Texas April 2024.

CP-1440 – GSU Transformers

- **CWPCTG 6 & WPCCTG 7** 13.8/24kV 60Hz Generator Step-Up Transformers and other associated equipment. Available for delivery from Laurel, Mississippi April 2024.

Owner Provided Equipment

Reference Volume 4 Documentation

CP-1435 – Advance Purchase Wire & Cable

- 25 percent July 01, 2024.
- 25 percent Aug 01, 2024
- 50 percent Sept 01, 2024.
- Note that Contractor is responsible for shipment of cable from Suppliers warehouse (anticipated to be Destrehan or Metairie, LA) to site. Refer to C1435 for details regarding shipping and the quantity of cable 'cuts' provided by C1435 Supplier.
- This is an advance bulk purchase of cable. Contractor is responsible for final quantities and any 'shorts'.

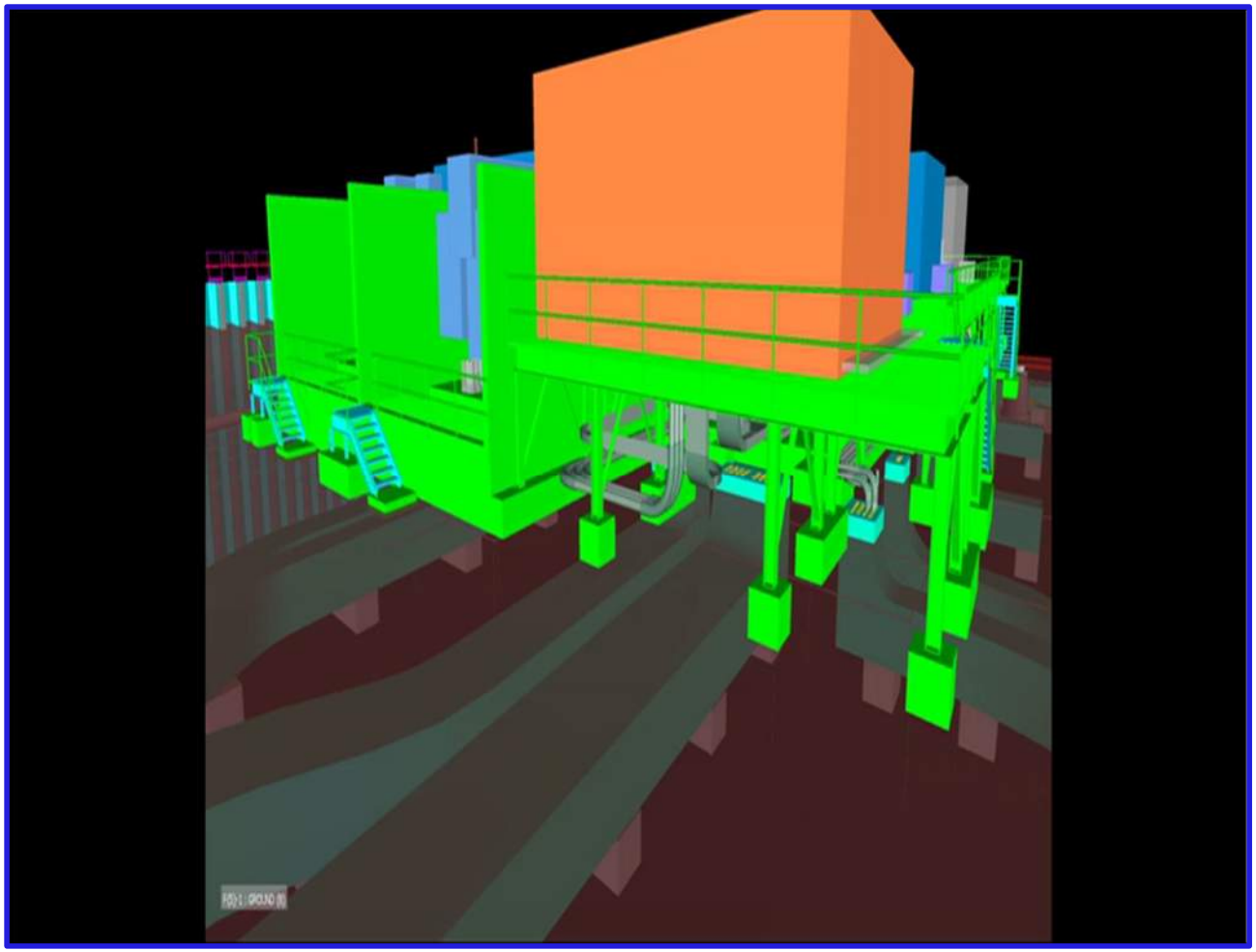
Note: An Excel version of the Cable Schedule (Vol3, Part3) will be provided via Addendum.

Cable Schedule does not include non-scheduled systems such as Security, Lighting.

Item No.	DESCRIPTION OF COMMODITY	QUANTITY	UNIT OF MEASURE
1	1 x SX LOOSE TUBE MULTIMODE FIBER OPTIC CABLE	15,000	FT
2	ACS DOOR CONTACT 2/C 300V OVERALL SHIELD	1,000	FT
3	4 SHIELDED TWISTED PAIR #23 CAT6A PATCH CORD	2,000	FT
4	ACS CR DOOR 16/C 300V OVERALL SHIELD	2,000	FT
5	ACS CR IN/OUT 18/C 300V OVERALL SHIELD	4,000	FT
6	1/C #10 600V SIS	1,000	FT
7	1/C #14 600V SIS	2,000	FT
8	2/C #10 600V	1,000	FT
9	2/C #14 600V	1,000	FT
10	4/C #10 600V	1,000	FT
11	5/C #14 600V	5,000	FT
12	7/C #14 600V	1,500	FT
13	12/C #14 600V	12,000	FT
14	1 FIBER SINGLE MODE FIBER OPTIC PATCH CABLE	1,000	FT
15	1 x SX LOOSE TUBE SINGLE MODE FIBER OPTIC CABLE	5,000	FT
16	4 x SX LOOSE TUBE SINGLE MODE FIBER OPTIC CABLE	8,000	FT
17	4 SHIELDED TWISTED PAIR #23 CAT6A PATCH CORD	12,000	FT
18	4 TWISTED PAIR #24	5,000	FT
19	8 x SX LOOSE TUBE SINGLE MODE FIBER OPTIC CABLE	1,000	FT
20	2/C #14 SOLID 300V FPLP	12,000	FT
21	2/C #18 SOLID 300V FPLP	2,000	FT
22	1/C #6 SOFT DRAWN BARE COPPER	2,000	FT
23	1/C #1/0 INSULATED GROUND	4,000	FT
24	1/C 250MCM INSULATED GROUND	70,000	FT
25	1/C #4/0 INSULATED GROUND	100,000	FT
26	1/C #4/0 SOFT DRAWN BARE COPPER	12,000	FT
27	1/C 250MCM 25KV SHIELDED	80,000	FT
28	1/C 750MCM 25KV SHIELDED	5,000	FT
29	1/C #2 5KV SHIELDED	135,000	FT
30	1/C 250MCM 5KV SHIELDED	1,000	FT
31	1/C 500MCM 5KV SHIELDED	10,000	FT
32	1/C 750MCM 5KV SHIELDED	38,000	FT
33	3/C #1/0 W/G 5KV SHIELDED	10,000	FT
34	1 PR #14 NON-SH 600V OVERALL SHIELD	1,500	FT
35	2 PR #14 NON-SH 600V OVERALL SHIELD	20,000	FT
36	2 PR #16 NON-SH 600V OVERALL SHIELD	1,000	FT
37	2 TR #16 NON-SH 600V OVERALL SHIELD	1,000	FT
38	4 PR #14 NON-SH 600V OVERALL SHIELD	1,000	FT
39	6 PR #14 NON-SH 600V OVERALL SHIELD	1,000	FT
40	12 PR #14 NON-SH 600V OVERALL SHIELD	1,000	FT
41	1/C 750MCM 600V	10,000	FT
42	3/C #1/0 W/G 600V	20,000	FT
43	3/C 250MCM W/G 600V	1,400	FT
44	3/C #4/0 W/G 600V	1,000	FT
45	3/C 500MCM W/G 600V	8,000	FT
46	2/C #4 W/G 600V	2,000	FT
47	2/C #8 W/G 600V	1,000	FT
48	2/C #10 600V	1,000	FT
49	2/C #10 W/G 600V	1,500	FT
50	2/C #12 W/G 600V	15,000	FT
51	3/C #2 W/G 600V	28,000	FT
52	3/C #4 W/G 600V	1,000	FT
53	3/C #6 W/G 600V	2,000	FT
54	3/C #8 W/G 600V	2,000	FT
55	3/C #10 W/G 600V	1,400	FT
56	1/C 500MCM 15KV SHIELDED	10,000	FT
57	1/C 750MCM 15KV SHIELDED	18,000	FT
58	1 PR #16 SH 600V OVERALL SHIELD	300,000	FT
59	4 PR #16 SH 600V OVERALL SHIELD	5,000	FT
		5,000	FT

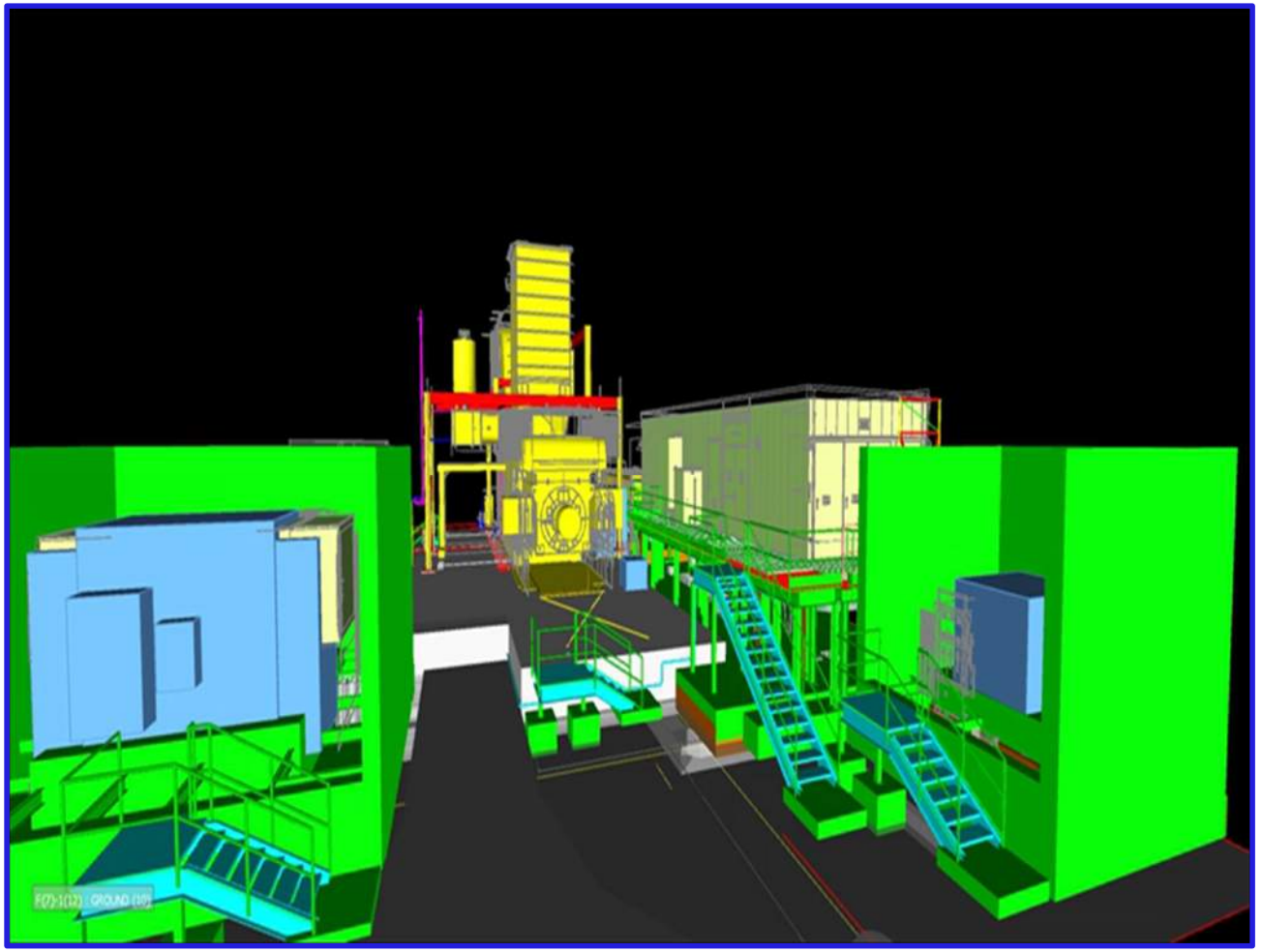
WPCSFC Subplot

- Offload and Assemble 1417/1427 Equipment
- Power and operate HVAC during assembly
- Interconnect Equipment / Cable
- AG Cable Tray/Conduit under Enclosures
- Platforms/Stairs/Handrail
- Grounding and Lighting
- Security and Fire Protection
- Control System Integration
- Equipment Startup and Commissioning



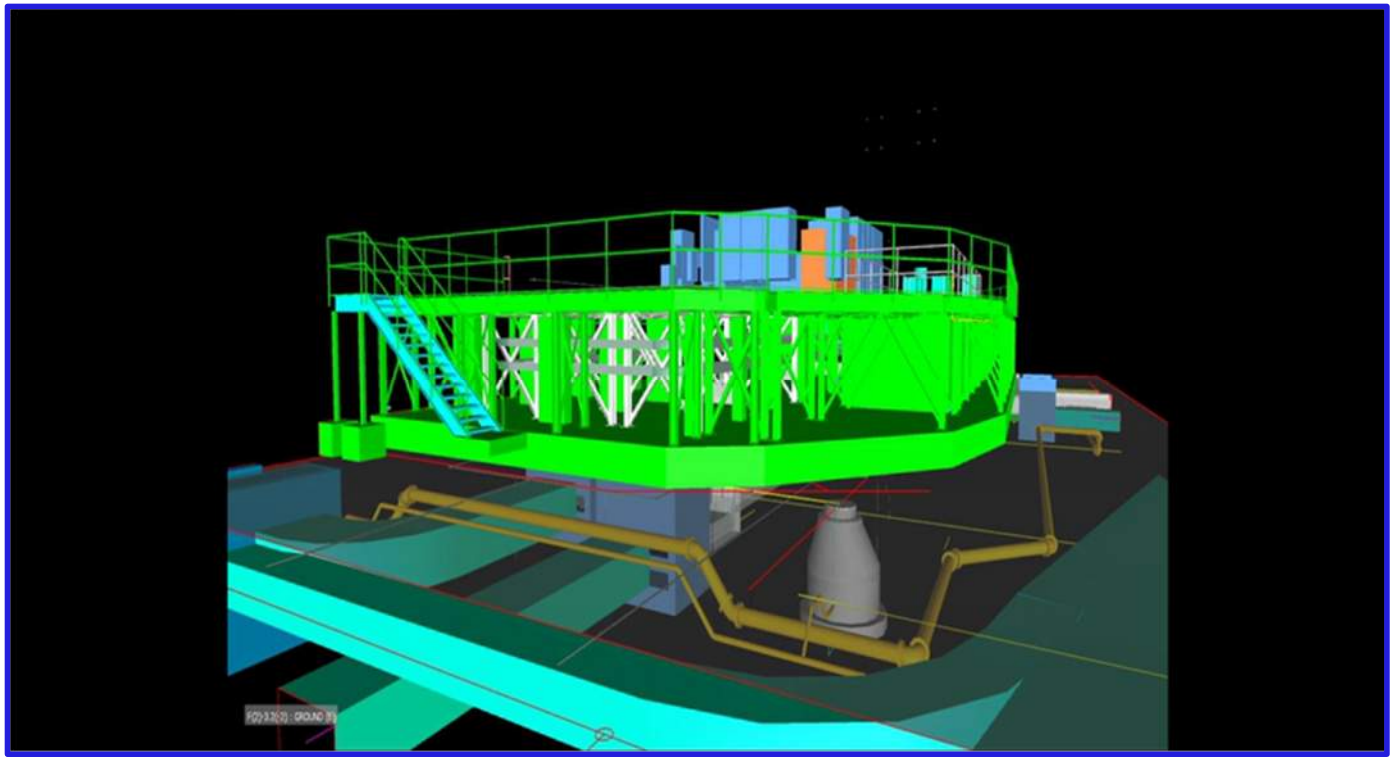
WPCCTG.7 Subplot

- Offload and Assemble 1438/1440 Equipment
- Power and operate HVAC during assembly
- Interconnect Equipment / Piping / Cable
- Platforms/Stairs/Handrail
- Grounding and Lighting
- Security and Fire Protection
- Control System Integration
- Equipment Startup and Commissioning



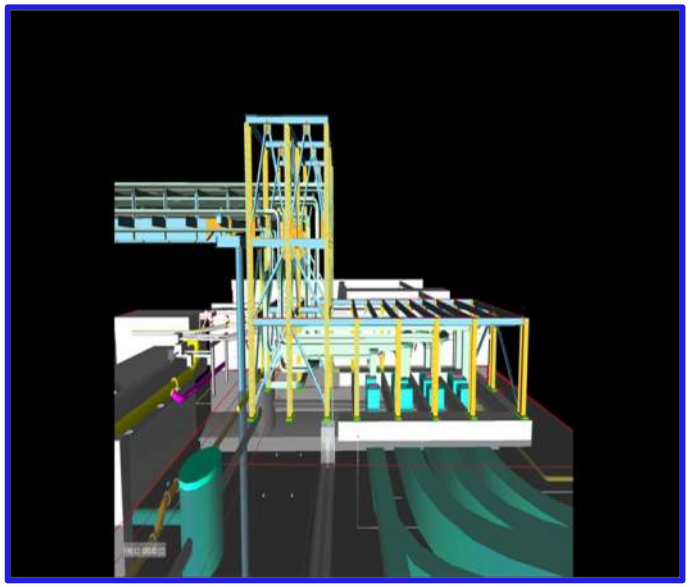
WPCAUX and BOP Subplot

- Offload and Assemble 1427 Equipment
- Procure and Install 1420 Equipment
- Power and operate HVAC during assembly
- Interconnect Equipment / Cable
- Platforms/Stairs/Handrail
- Grounding and Lighting
- Security and Fire Protection
- Control System Integration
- Equipment Startup and Commissioning

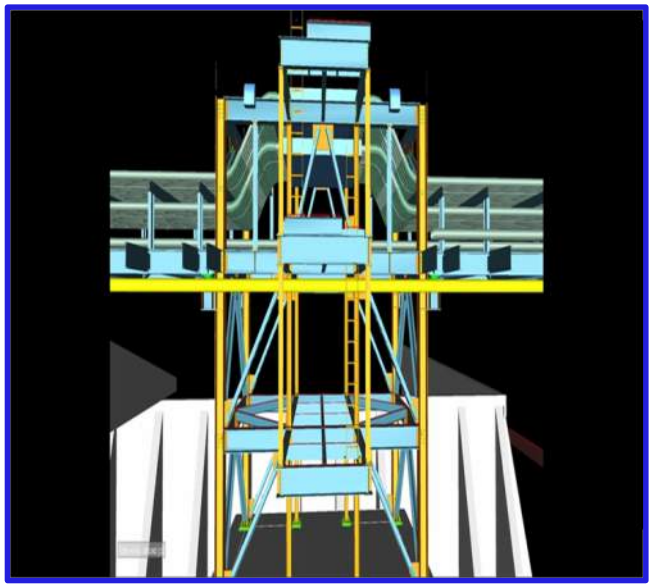


WPCUR

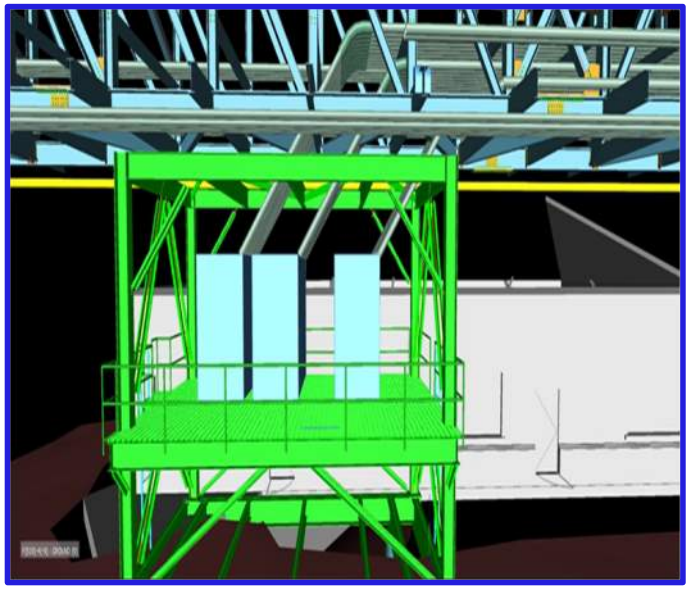
- Cable pull/splice at West Transition Structure (WTS), Pull Box Structures, and East Transition Structure (ETS)
- Procure and Install ETS Transition Boxes
- Procure and Install Non-Seg Bus Duct from ETS Transition Boxes into Central Control Switchgear



West Transition Structure



Typical Pull Box Structure



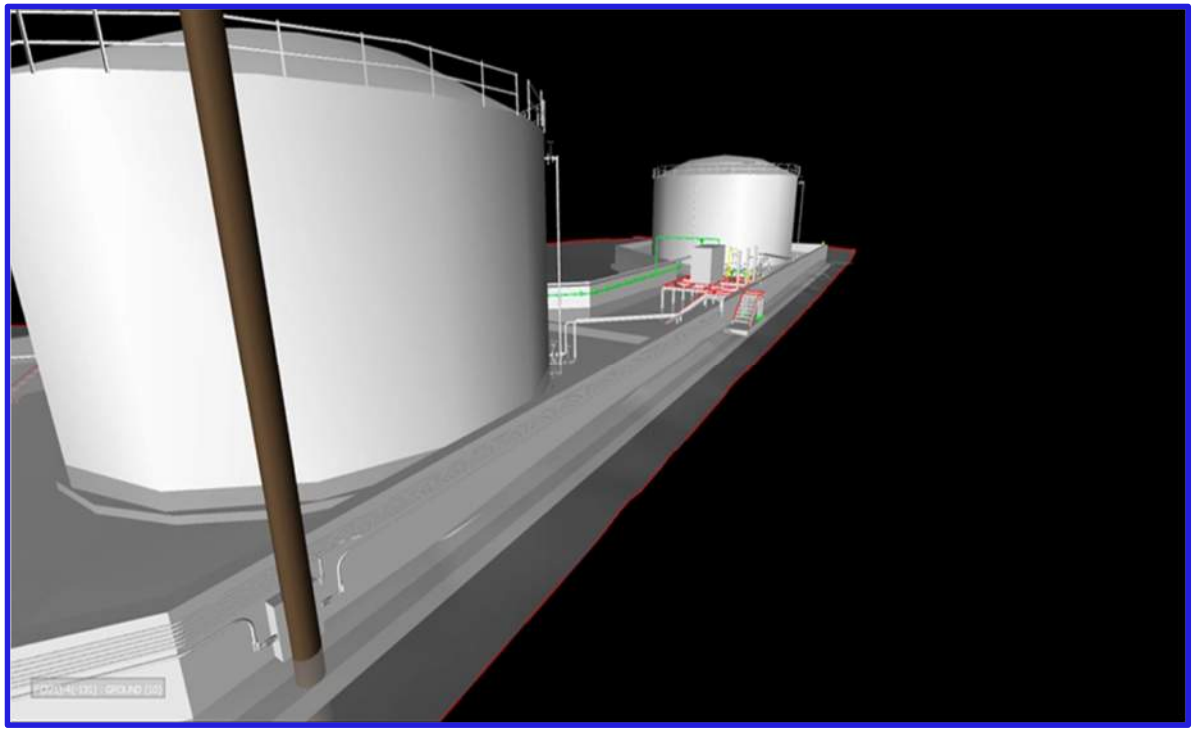
East Transition Structure

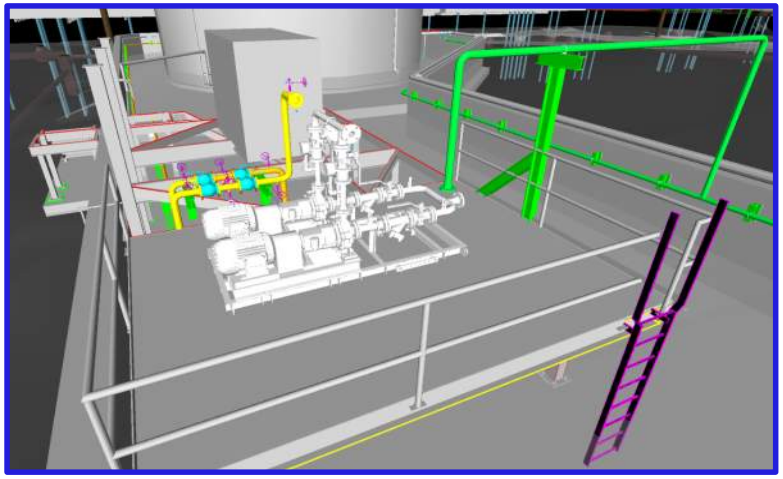
CWPYRD and CWPCTG.6

- Remove existing CTG6 GSU Transformer (Board retains)
- Offload and Install CTG-6 GSU (1427)
- Interconnect Equipment
- Grounding and Lighting
- Control System Integration
- Equipment Startup and Commissioning

Fuel Oil Bulk Storage Area

- Procure and Install 1420 Equipment
- Interconnect Equipment
- Platforms/Stairs/Handrail
- Grounding and Lighting
- Piping / Wiring
- Equipment Startup and Commissioning



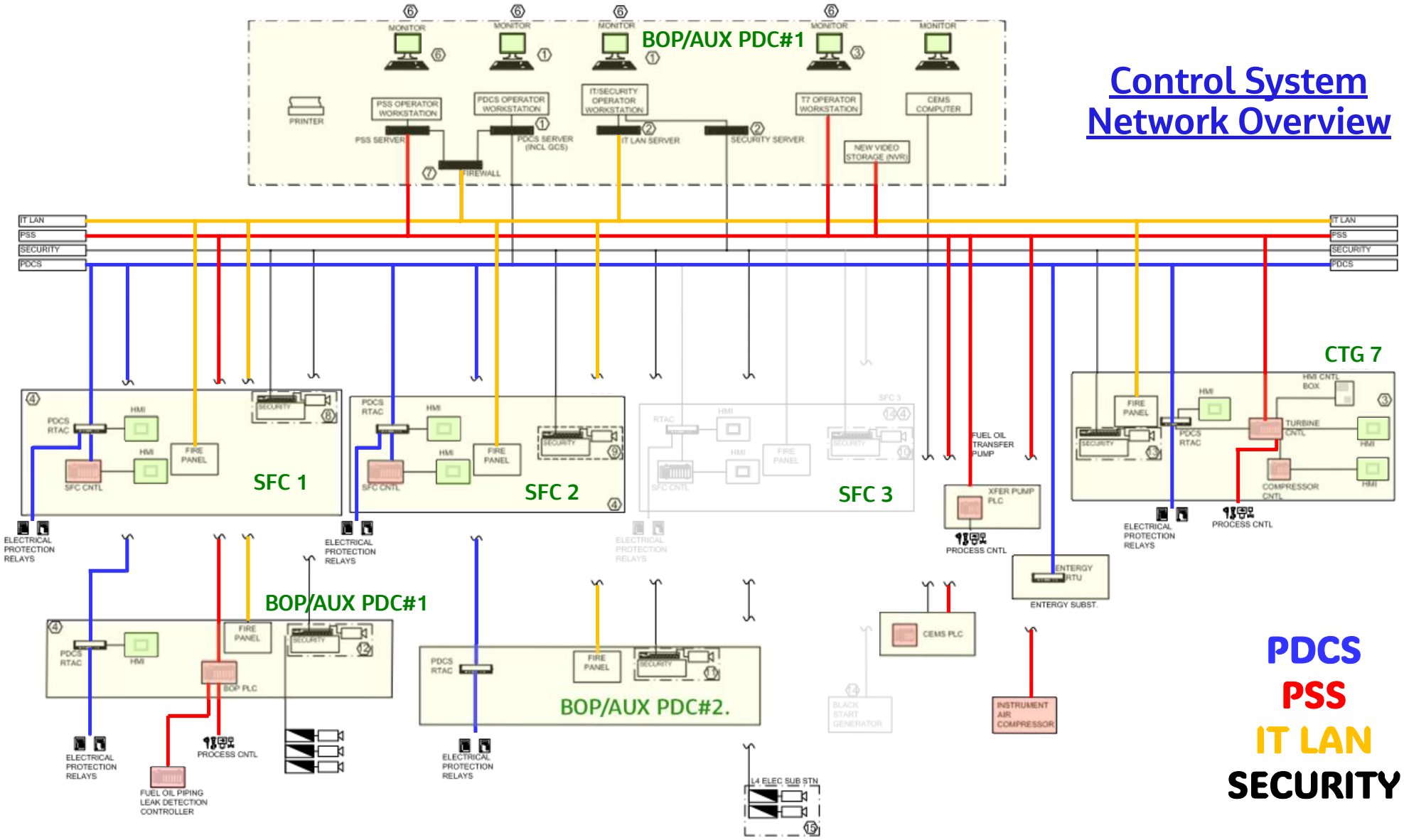


Forthcoming Addendums

- Contract Days – April 1, 2024 to June 5, 2025 – 430 days
- DBE Percentage correction
- Identify that the pre-purchased Cable from Contract 1435 will be located at a warehouse in either Metairie or Destrehan, LA
- Update the Schedule Table (Spec 01 11 01)
- Provide excel version of the Cable Schedule
- 25Hz Switchgear Foundation
- West Power Complex Site Lighting

Control System Integration

Control System Network Overview



PDCS

PSS

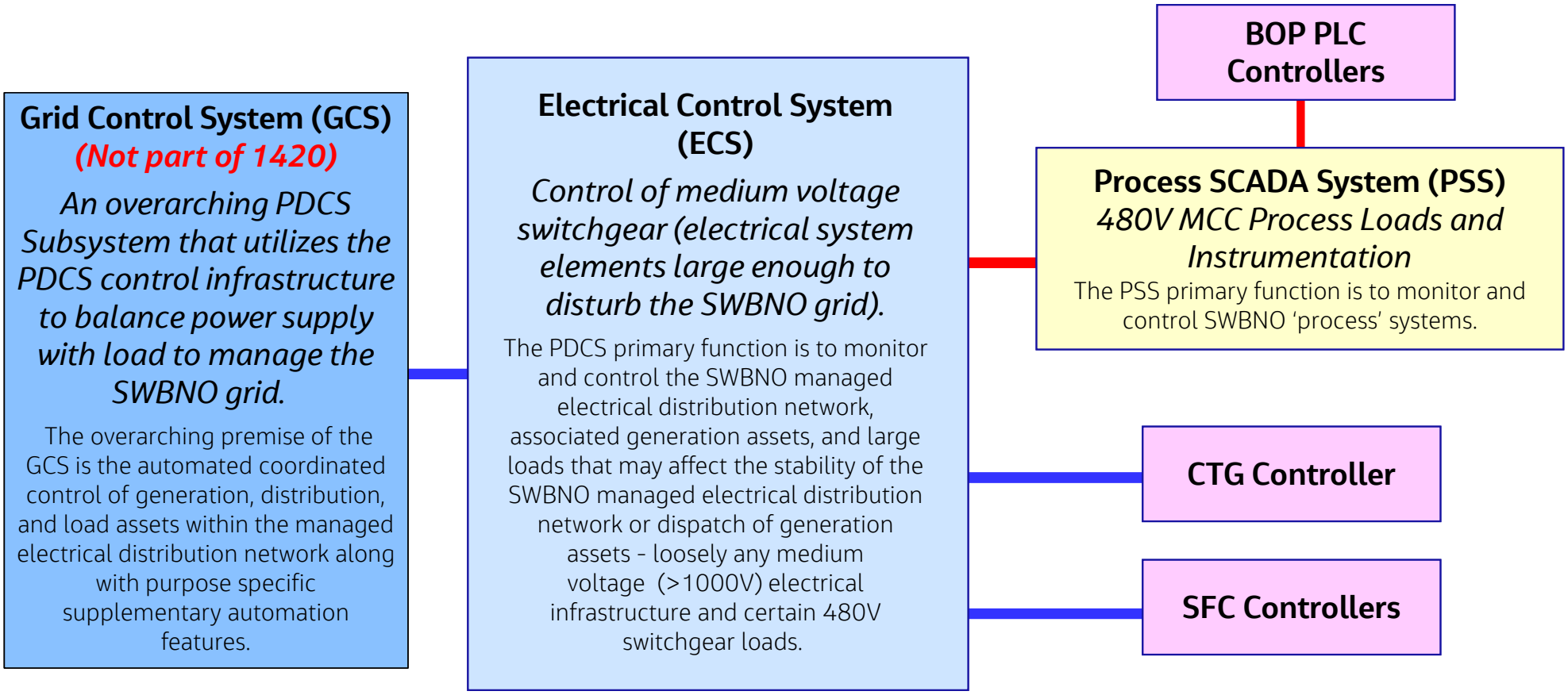
IT LAN

SECURITY

PDCS Scope

1. *PDCS network configuration updates.*
2. *PDCS main control room HMI updates.*
3. *PDCS historian updates.*
4. *Add safety light modification:*
5. *Safety light configuration.*
6. *Cardkey configuration.*
7. *Make ready for GCS implementation.*
8. *Add pre-programmed sequences.*
9. *Develop shift reports.*
10. *Add/modify/update OTI-PI interface.*

Power Distribution Control System



What is a Use Case?

A defined set of circumstances the Facility must be able to respond to. A Use Case defines the interactions between external actors and the system under consideration to accomplish a goal.

In other words, a Use Case is the System/Operator response to *" I want/need to ….."*

…start the CTG to full-speed, no-load.

… put SFC-1 on-line.

…transfer Fuel Oil from the Storage Tank to the Day Tank.

…configure our assets to support 30 MW load without the Utility Substation feed in XX minutes.

…configure our assets to support 45 MW load including the Utility Substation feed in XX minutes.

…keep the system operating at 25 MW load, but the Utility Substation feed is dropping.

How will Use Cases be developed?

Beginning soon after NTP, the CMO will coordinate meetings (no less than monthly) with SWBNO Engineering and Operations, the Commissioning Agent or System Integrator and the Engineer (Jacobs) to develop and refine up to 200 Use Cases.

In addition to the above meetings, the following formal Workshops will be conducted:

40 percent System Design: 'system'(s) to be reviewed in workshop are sufficiently technically mature to have most system elements identified.

75 percent System Design: 'system'(s) to be reviewed in workshop have been further refined and Use Cases are solid (80 percent).

90 percent System Design: 'system'(s) to be reviewed in workshop are past system design freeze and majority of System ConOps documentation has been developed and are ready to release to Control System Integrator.

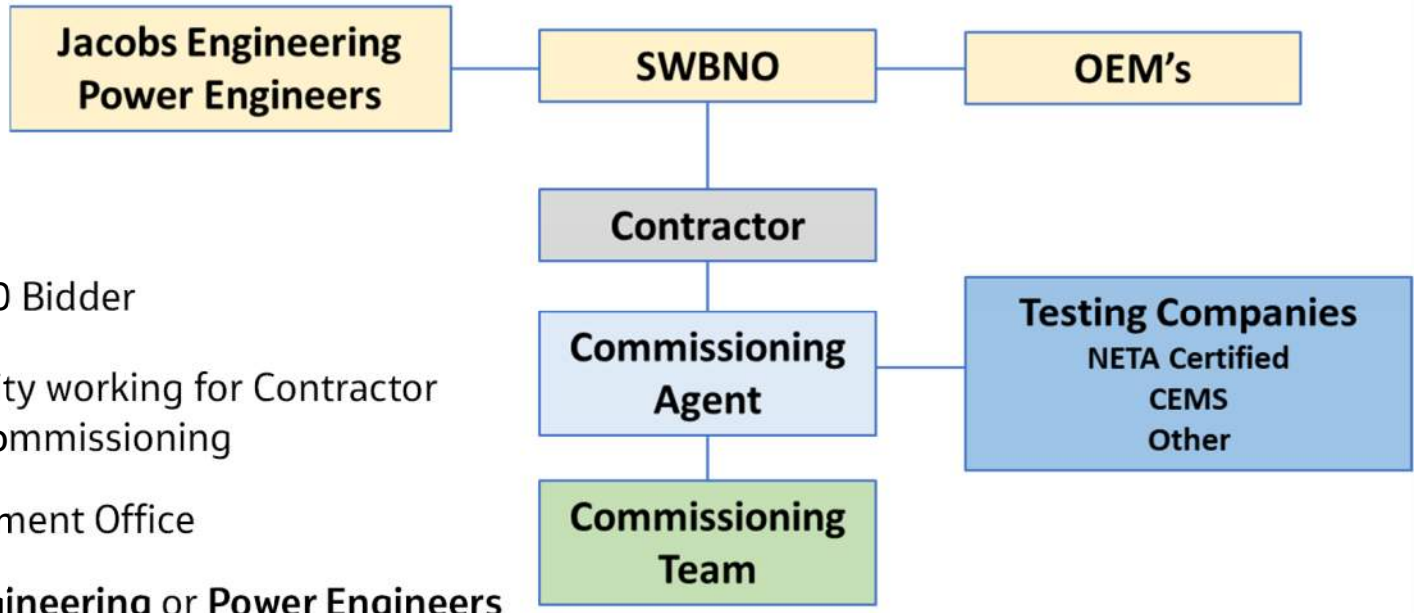
Pre-FAT: 'System'(s) to be reviewed in workshop have been configured by Control System Integrator and ready for review with expectation that review comments will be incorporated for witness in FAT.

Post-FAT: 'System'(s) to be reviewed have been through FAT and FAT punch list items have been resolved with expectation that Control System will be released for shipment at conclusion of workshop.

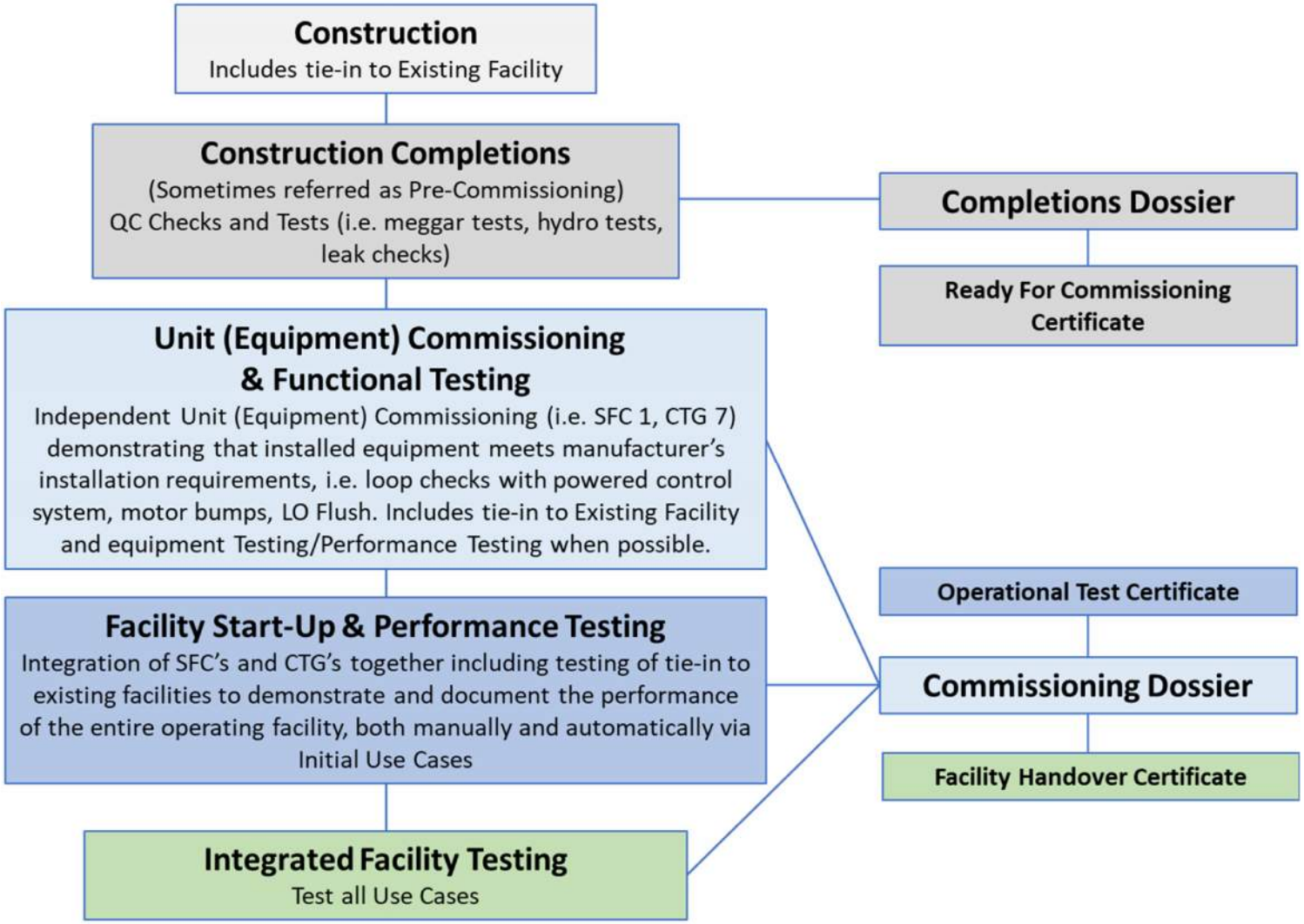
Completions & Commissioning

Organization

- **Owner** - SWBNO
- **Contractor** – Successful 1420 Bidder
- **Commissioning Agent** – Entity working for Contractor responsible for Start-Up & Commissioning
- **CMO** – Construction Management Office
- **Engineer** – Either **Jacobs Engineering** or **Power Engineers** depending upon scope

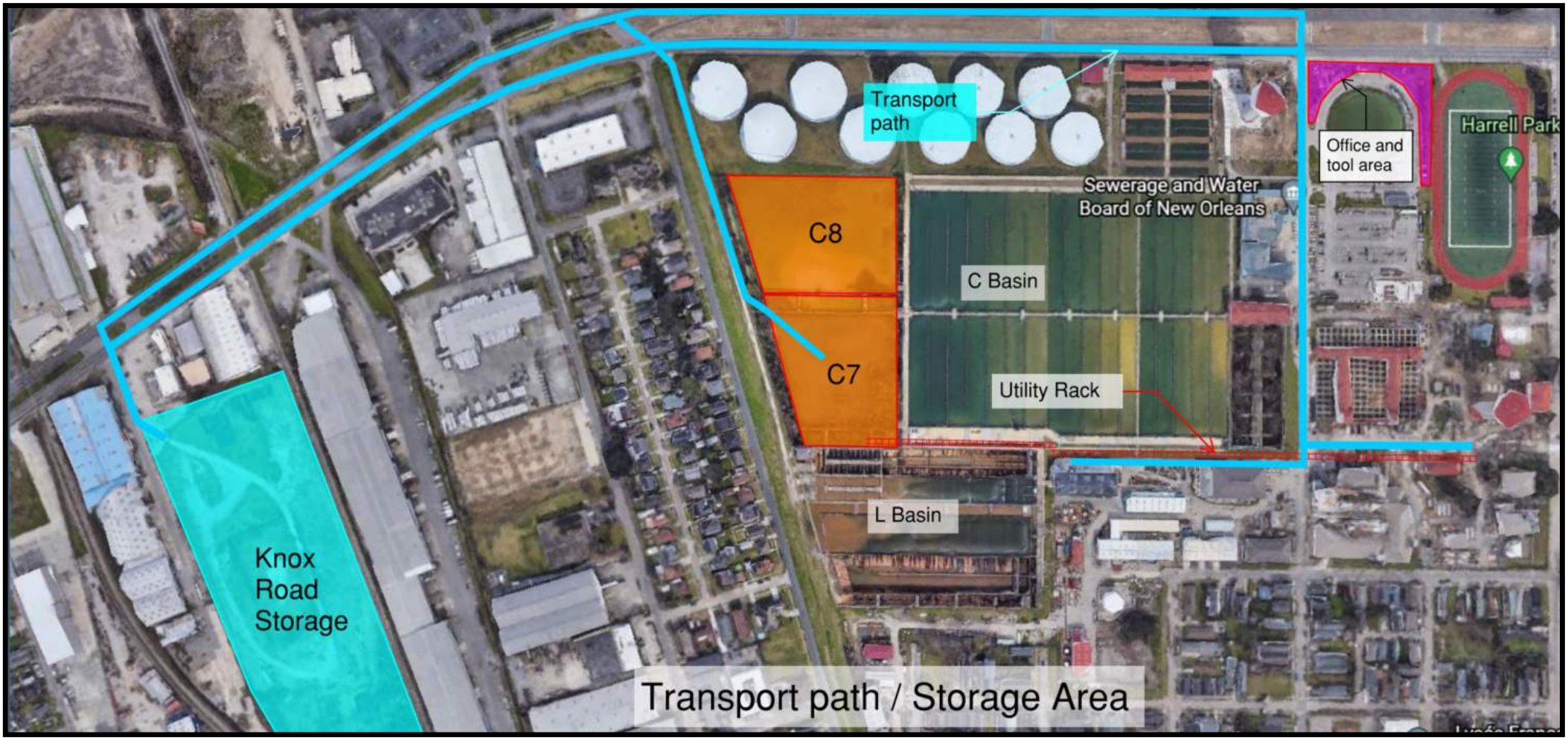


Completions & Commissioning Workflow



Construction Considerations

Site Access

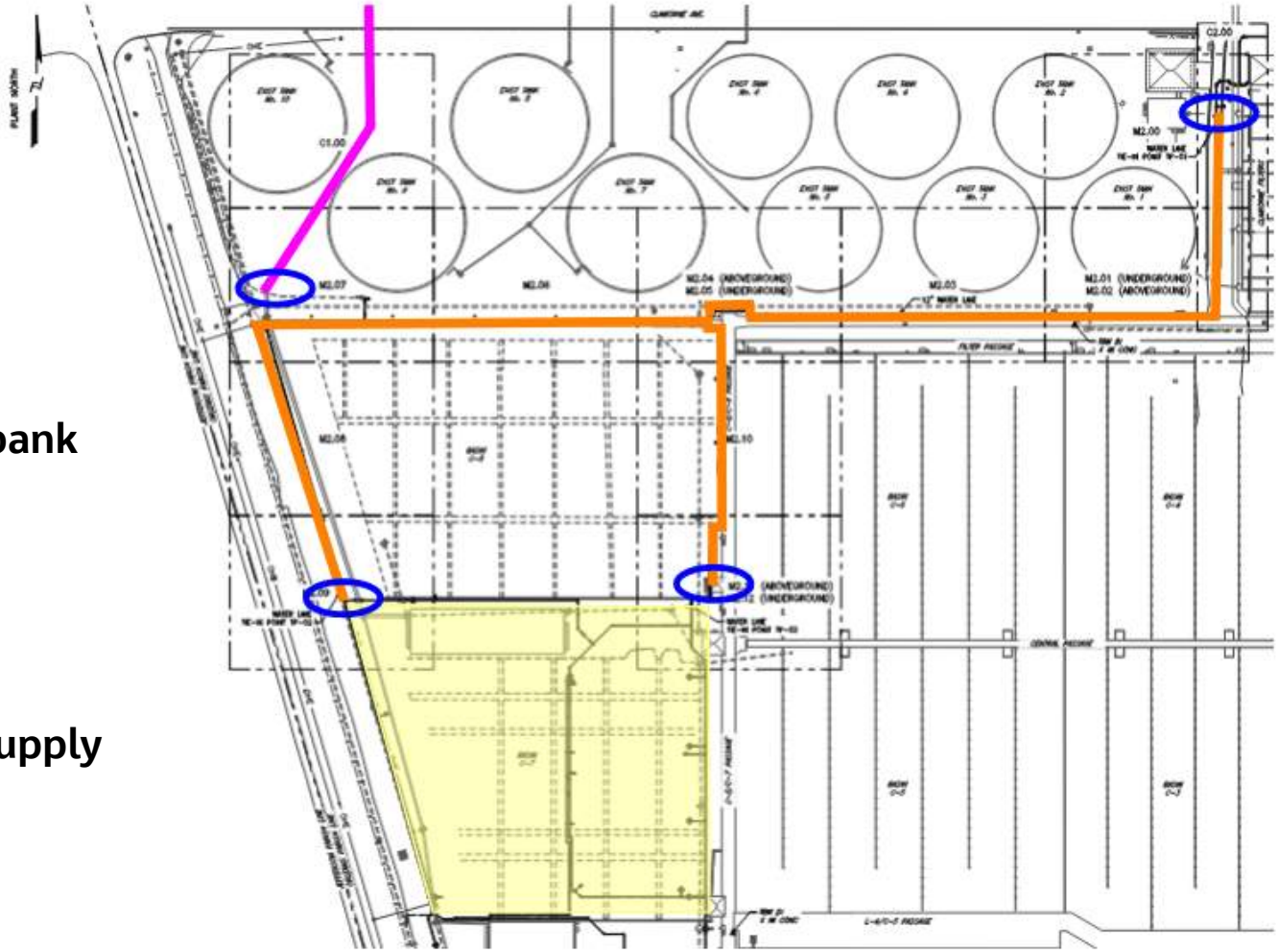

Transport path
Sewerage and Water Board of New Orleans
Office and tool area
Harrell Park
C8
C7
C Basin
Utility Rack
L Basin
Knox Road Storage
Transport path / Storage Area

Ongoing Construction Work

C1415 – WPC Underground Ductbank and Foundations

C1418 – Utility Rack

C1443 – CWPT-Claiborne Water Supply and Stormwater Outfall Tie-ins



Key Construction Considerations

- **Working Hours/Days** - Monday through Friday, Saturday, Sunday, and Holidays with Owner's written consent. See General Conditions Article 6.02.
- **Site Access and Parking** – Subject to SWB security protocols while onsite. Only construction vehicles with company logo/designation are allowed in the plant with the permission of the Owner. Contractor responsible for securing offsite facilities for parking and transportation to and from.
- **Laydown** - Limited onsite laydown areas available; coordinate with Owner for review and approval of onsite laydown. Knox Road storage area may be used for staging and storage of construction equipment and materials as space allows.
- **Temporary Facilities**
  - Power for Contractor's office and construction, internet, phone, sanitary, and water services are the Contractor's responsibility.
- **General Site Conditions**
  - Maximum ground pressure is 2,500 PSF throughout plant. All cranes and point loading equipment are required to be matted.
  - Groundwater table is approximately 2 feet below grade. During and after rain events surface water will be present, and the water table may extend to grade. Water management will be required.
  - See additional Site Expectations in Section 01 31 13, Project Coordination.

Key Construction Considerations

- **Maintenance of Plant Operations (MOPO)** - Takes precedence and is not to be interrupted. (Section 01 11 01 3.01 and 01 31 13 1.06)
  - *Provide 14 days advance written request for approval of need to shut down or interrupt a process or facility.*
  - *Power outages will be considered upon 48 hours written request.*
  - *Contractor shall stop work and relinquish area in question in case of a SWB process emergency.*
- **Safety** – Contractor's responsibility including Site Specific Safety Plan, Job Hazard Analyses, Reporting, Coordination with Owner Safety Requirements (Electrical Safety Clearance, LOTO, Safety Orientation Notice).
- **Protection of Work and Property** – See various requirements in Section 01 50 00, Temporary Facilities and Controls (i.e., coordination / minimizing disruptions to adjacent processes, site security, barricades and lighting, and dewatering)
- **Pollution Prevention (01 50 00, 3.04) –** Air, noise, and water pollution prevention control required. Notably, the Work will be installed immediately adjacent to existing water treatment basins. **It is the Contractor's responsibility to protect from and avoid contamination of the treatment process.** (Section 01 31 13 1.04.B)
- **Good Housekeeping and Cleaning During Construction (General Conditions 6.11.B, Section 01 50 00, 3.09)** – Maintain site in a neat and orderly condition with equipment, tools, and materials stored in designated areas and with no loose trash at day's end. SWBNO may issue a stand down as necessary to address repeated safety issues or poor housekeeping.

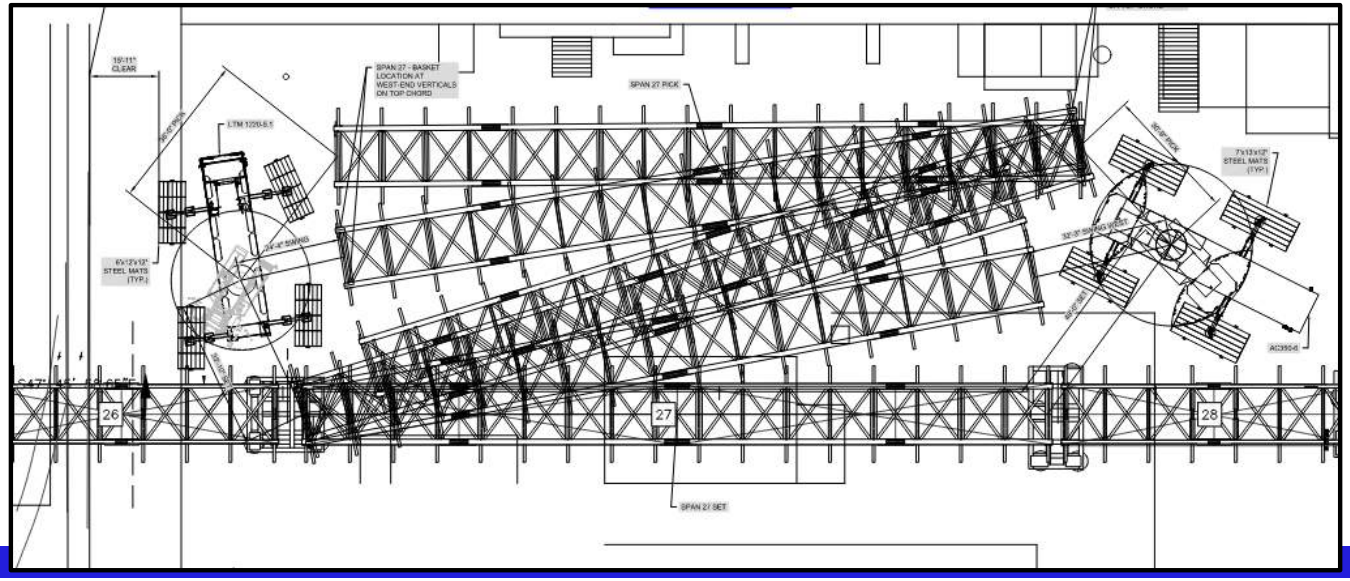
Key Construction Considerations

- **Staging and Lifting Plans (Section 13 30 00)**
  - Staging, Lifting and Rigging Plans (signed and sealed by PE) and JSAs shall be submitted AND approved before conducting any lifting operations
  - Prepare in accordance with specifications (i.e., scaled drawings, rigging plans, crane configuration, calculations of working loads relative to equipment and rigging capacities, operator certifications, etc.).
  - Coordinate rigging of equipment with OEM's.
  - Crane capacity limited to 75 percent unless Owner approved.

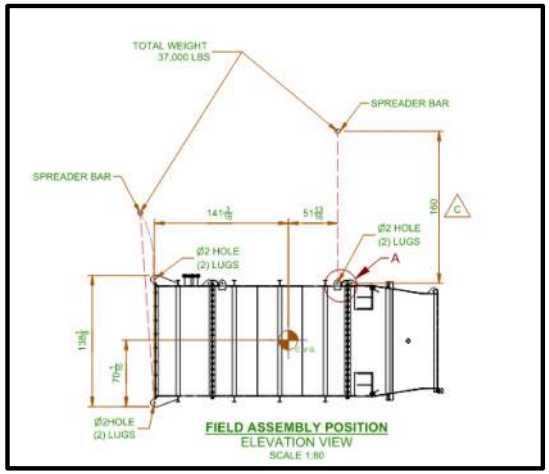
Lift Charts and Working Load Calculations

LIEBHERR LTM 1220-5.1		PICK	MIN. SWING	SET
CRANE CONFIGURATION		T	T	T
MAIN BOOM LENGTH	(FT.)	100.0	100.0	100.0
MAIN BOOM CONFIGURATION	(LBS.)	0+46+46+46+46+	0+46+46+46+46+	0+46+46+46+46+
MAIN COUNTERWEIGHT	(LBS.)	163,100	163,100	163,100
MAIN BOOM ANGLE	(LBS.)	67	74.0	68.3
ACTUAL LIFT RADIUS	(FT.)	36.0	24.3	33.8
CHART RADIUS	(FT.)	36.0	27.0	36.0
CAPACITY AS CONFIGURED	**(LBS.)**	**134,000**	**168,000**	**134,000**
BLOCK WEIGHT	(LBS.)	2,293	2,293	2,293
AUXILIARY BLOCK WEIGHT	(LBS.)	1,103	1,103	1,103
JIB DEDUCTION	(LBS.)	1,345	1,345	1,345
RIGGING WEIGHT		700	700	700
LOAD WEIGHT	(LBS.)	97,500	97,500	97,500
TOTAL LIFTED WEIGHT	**(LBS.)**	**102,941**	**102,941**	**102,941**
PERCENTAGE OF CHART CAPACITY	**(%)**	**76.82%**	**61.27%**	**76.82%**
MAXIMUM SINGLE LINE PULL	(LBS.)	23,400	23,400	23,400
PARTS OF LINE	(#)	6	6	6
TOTAL LINE CAPACITY	(LBS.)	135,100	135,100	136,100
PERCENTAGE OF LINE CAPACITY	(%)	76.20%	76.20%	75.64%
HOOK BLOCK CAPACITY	(TONS)	78.28	78.28	78.25
PERCENTAGE OF HOOK BLOCK CAPACITY	(%)	65.75%	65.75%	65.78%
MAXIMUM ALLOWABLE WIND SPEED	**(MPH)**		**15.00**	

Lift Plan Scaled Drawings

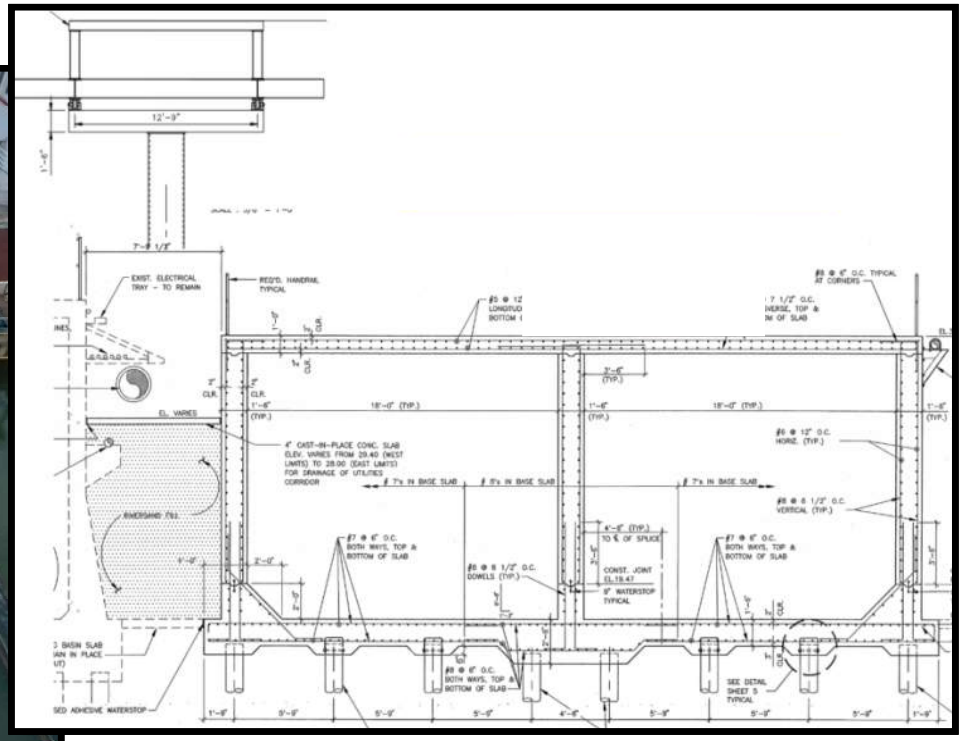


Rigging Details



Key Construction Considerations - Access to Utility Rack Segment B

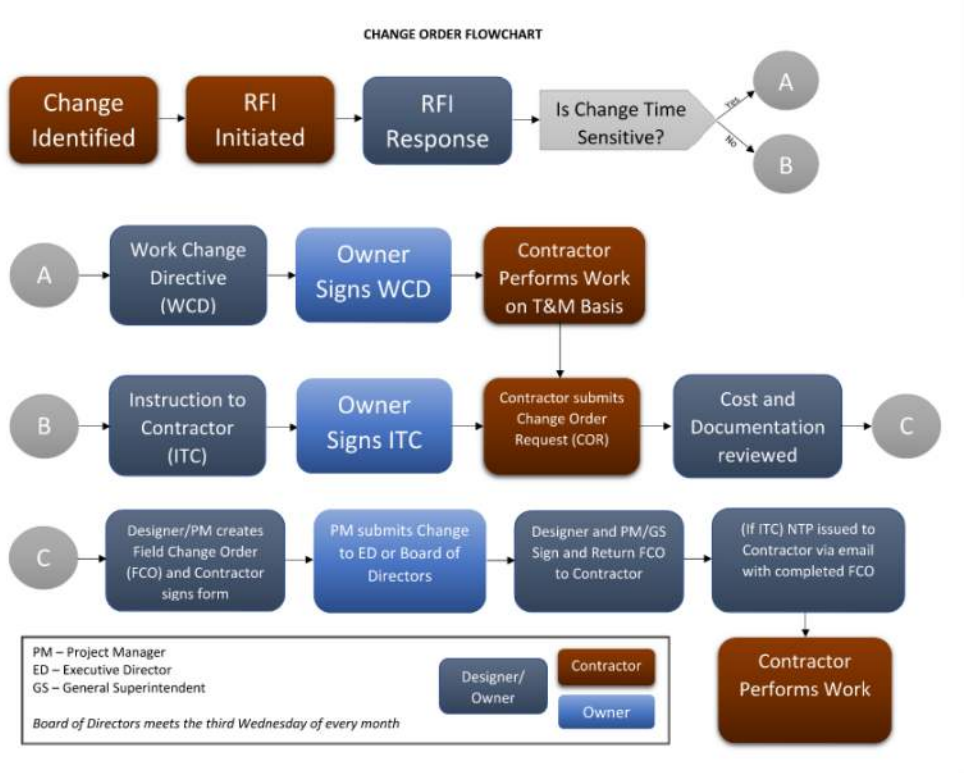
- Reference Drawings provided in Volume 4 of Bid Documents provide details
- Contractor to provide calculations regarding any load to be placed atop Influent Channel
  - Refer to Specification 01 31 13 Project Coordination Paragraph 1.01 B.3
- Full containment of any/all oil/potential contaminants required



Construction Administration

Construction Administration Requirements

- **Contract Modification Procedures (01 26 00)** – Outlines administrative procedures to identify a changed condition, quantify the impacts to Contract Price and Time, initiate the additional Work, and amend Contract to include the changed condition.
  - RFI – Request for Information
  - COR – Change Order Request
  - ITC – Instruction to Contractor
  - WCD – Work Change Directive
  - FCO – Field Change Order

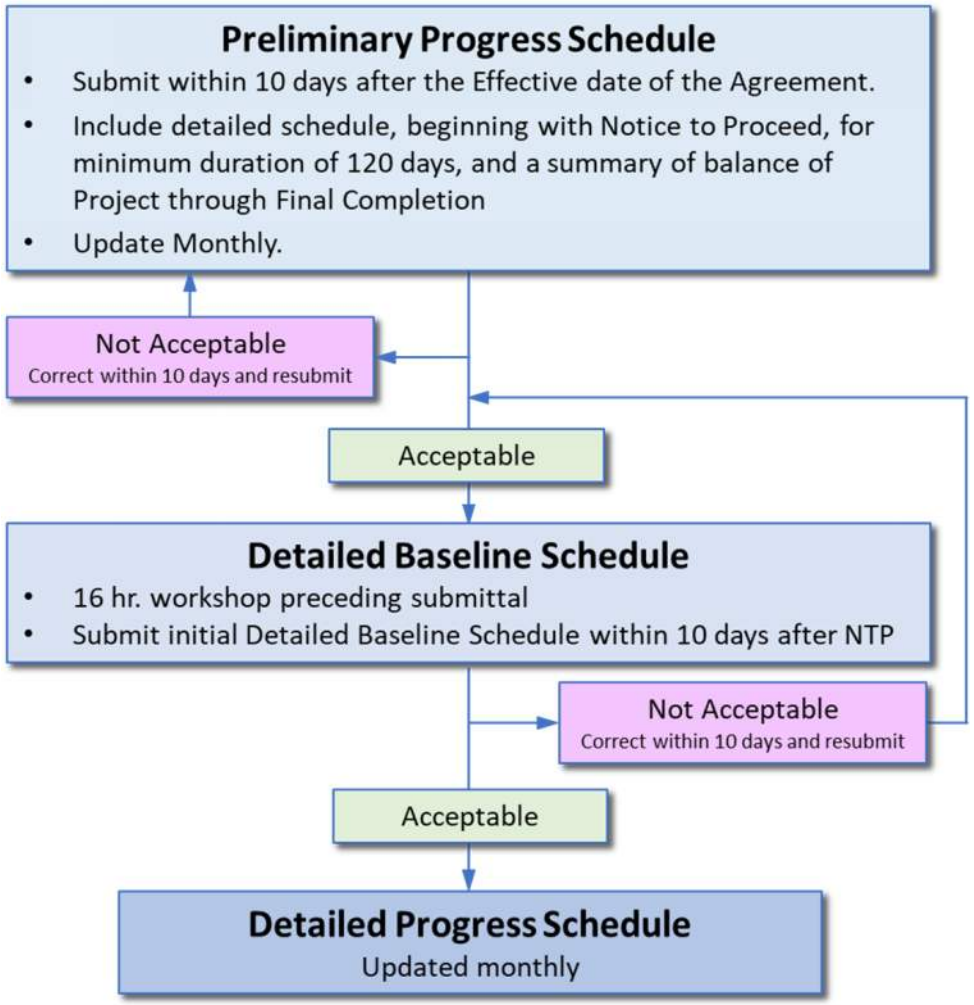


Construction Administration Requirements

- **Payment Procedures (01 29 00 and General Conditions Article 14)**
  - Prepare Schedule of Values and Schedule of Estimated Progress Payments
  - Submit Applications for Payment monthly with supporting information including but not limited to Updated Progress Schedule, latest 3-week lookahead schedule, confirmation of daily reporting, confirmation of as-built maintenance, stored materials reports, evidence of current insurance, certified payrolls and wage rate compliance per Section 3 HUD requirements, evidence of DBE payments)
  - Failure to submit required materials in support of payment application will constitute grounds for rejection.
  - SWB requires submission of up to three separate payment applications to support reimbursement from various funding sources.
- **Project Meetings (01 31 19)**
  - Pre-construction Conference
  - Preliminary Schedule Review
  - Progress Meetings (time TBD)
  - Quality Control
  - Use Case Development
  - Shop Drawing / Submittal Coordination
  - Pre-installation
  - Facility Start-up

Construction Administration Requirements

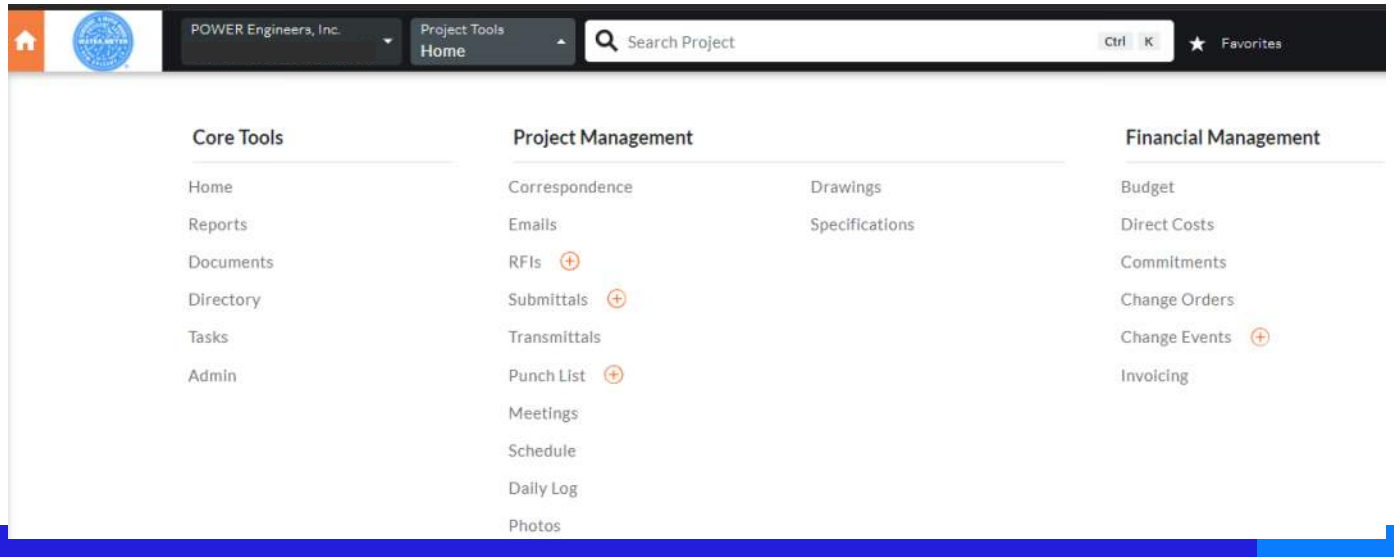
- **Progress Documentation / Schedules (01 32 00)**
  - *Format* - Primavera P6 or Engineer-approved equivalent
  - *Scheduler Qualifications* – 5 years minimum experience
  - *Submittals* – Preliminary, Detailed Baseline, Detailed Progress, 3-Week Lookaheads (submit 24 hours prior to weekly progress meeting), Progress Reports
  - *Total Float* – Jointly owned by Contractor and Owner
  - *Weather Days* – Specified in Contract, adjust work calendar to incorporate Weather Days. Unused Weather Days to be returned to Contract monthly as Float



* *No site work allowed until Preliminary Schedule is submitted and approved.*

Construction Administration Requirements

- **Submittal Procedures (01 33 00)**
  - Timeliness – Schedule and submit in accordance with Schedule of Submittals (see summary of required submittals for in specification supplement for reference)
  - Engineer Review - 14 calendar days
    - Approved
    - Approved as Noted
    - Revise and Resubmit
    - Rejected
  - See Submittal Procedures Supplement for additional administrative requirements (Transmittal Cover Sheet, naming conventions, etc.)
- **Construction Administration Activities Managed through Procore**



Supporting Subcontractors Experience Required

- **Commissioning Agent (01 91 14 Part 1.02.B.2)**
  - Certification as a Certified Commissioning Firm with the Building Commissioning Association (or similar organization).
  - Experience with at least four projects of similar Managerial and Technical Complexity.
  - 5 Years minimum field experience with energy systems performance, startup, troubleshooting & maintenance.
- **PDCS Integrator (40 94 23PDCS Part 2.10.L)**
  - Systems Integration Specialist with experience in designing electrical protection control systems.
  - Experienced in at least 10 projects with a power capacity of at least 50MW.
  - Experience in Electrical Network Projects.
- **CTG Installation (01 73 20 Part 1.01.D.6)**
  - Minimum of 10 years experience with installation of CTG's similar in size and complexity.
  - Projects must be submitted for owner's approval.
- **Testing Company: (01 91 14 Part 1.02.B.3.a)**
  - Should meet OSHA 29 CFR 1907 Criteria and be a certified NETA member
- **Scheduler (Section 01 32 00 Part 1.01.A.1)**
  - Minimum of 5 years experience in scheduling similarly sized construction projects
  - Must be able to use Primavera P6 or an alternative Engineer-approved scheduling software.

Wrap Up

Questions and Site Visit

Site Walk

PPE required
- Safety glasses
- Hard hat
- Steel toe shoes

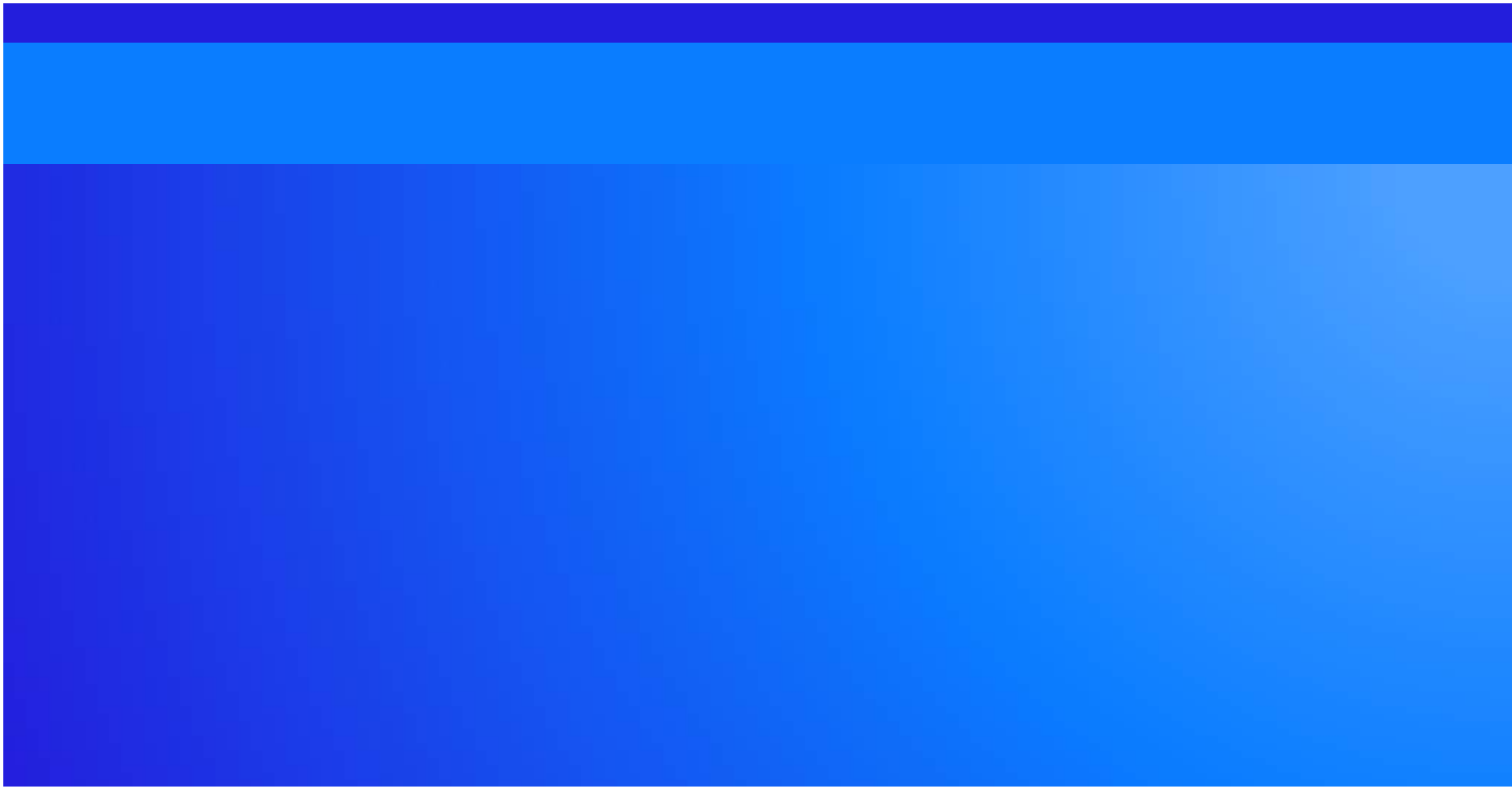
Optional Walk-through of SFC-1 at Point Eight Power

Sign in at the office and follow all safety rules at PEP.

PPE required to come on site.

- Safety glasses
- Hard hat
- Steel toe shoes.

Point Eight Power
1510 Engineers Rd.
Belle Chase, LA 70037



Jacobs Challenging today. Reinventing tomorrow.

Please write legibly

SEWERAGE & WATER BOARD OF NEW ORLEANS
ATTENDANCE SHEET

PROJECT: -Pre-Bid Conference: 2023-SWB-97 Contract 1420 West Power Complex Phase Equipment Installation and Commissioning	MEETING DATE: December 8, 2023. 9:00 A.M.
PLACE/ROOM: Carrollton Water Plant Auditorium Room E202	FACILITATOR: Connor Metcalf, Procurement Analyst

NAME	COMPANY	EMAIL
Connor Metcalf	SWBNO	Cmetcalf@swbno.org
Scott Burchett	Primoris	Sburchett@prim.com
Joseph Bondank	Power Engineers	Joseph.bondank@powereng.com
M. Ron Spooner	SWBNO	rspooner@swbno.org
Celso Antunez	SWBNO	cantunez@swbno.org
Bill Ducote	Barnes Electric	bducote@wjbe.com
William Dowling	Frischhertz Electric	Wdowling@frishhertz.com
Ryan Frischhertz	Frischhertz Electric	ryan@frischhertz.com
Doug Shrogas	Frischhertz Electric	Dshrugas@frischhertz.com
Ashton Rothy	MR Pittman Group	Ashton@mrpittman.com
Craig Duplantis	Triad	Craig_duplantis@thenewtrongroup.com

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NAME	COMPANY	EMAIL
Mike Rooney	Triad	mike_rooney@thenewtrongroup.com
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York Brogden	Jacobs Engineering	York.brogden@jacobs.com
Kaitlin Tymrak	SWBNO	ktymrak@swbno.org
Bill Ellis	Walter Barnes	Bellis@wjbe.com
Mustafa Afaneh	Jacobs Engineering	mustafa.afaneh@jacobs.com
Alvin Porter	SWBNO	Aporter@swbno.org
Roy Snover	Jacobs Engineering	roy.snover@jacobs.com
Chris Bergeron	SWBNO	cbergeron@swbno.org
Rodney Carpenter	Jacobs Engineering	rodney.carpenter@jacobs.com
Sonya Reiser	Jacobs Engineering	Sonya.reiser@jacobs.com

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NAME	COMPANY	EMAIL
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Joel Tillery	Jacobs Engineering	Joel.tillery@jacobs.com
Monica Stochl	Jacobs Engineering	Monica.Stochl@jacobs.com
Suliman Hamed	Jacobs Engineering	Suliman.Hamed@jacobs.com
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Max Newton	Jacobs Engineering	max.newton@jacobs.com
Kirubel Beyene	Jacobs Engineering	kirubel.beyene@jacobs.com
Tim Morgan	Wallace C. Drennan	tmorgan@wallacecdrennan.com
Jeff Handwork	Jacobs Engineering	Jeffery.handwork@jacobs.com
Michael Volker	Jacobs Engineering	Michael.Volker@jacobs.com

LOUISIANA UNIFORM PUBLIC WORK BID FORM

TO: Sewerage and Water Board of New Orleans
Purchasing Department, Room 133
625 St. Joseph St
New Orleans, LA 70165

CONTRACT 1420: WPC PHASE 1
INSTALLATION AND
COMMISSIONING

(Owner to provide name and address of owner)

(*Owner to provide name of project and other identifying information)*

The undersigned bidder hereby declares and represents that she/he; a) has carefully examined and understands the Bidding Documents, b) has not received, relied on, or based his bid on any verbal instructions contrary to the Bidding Documents or any addenda, c) has personally inspected and is familiar with the project site, and hereby proposes to provide all labor, materials, tools, appliances and facilities as required to perform, in a workmanlike manner, all work and services for the construction and completion of the referenced project, all in strict accordance with the Bidding Documents prepared by:
Jacobs Engineering Group. and dated: November 2023

Bidders must acknowledge all addenda. The Bidder acknowledges receipt of the following **ADDENDA:** (Enter the number the Designer has assigned to each of the addenda that the Bidder is acknowledging)
_____ .

TOTAL BASE BID: For all work required by the Bidding Documents (including any and all unit prices designated "Base Bid" * but not alternates) the sum of:

_____Dollars ($ _____)

ALTERNATES: For any and all work required by the Bidding Documents for Alternates including any and all unit prices designated as alternates in the unit price description.

Alternate No. 1 *(Owner to provide description of alternate and state whether add or deduct)* for the lump sum of:

_____Dollars ($ _____)

Alternate No. 2 *(Owner to provide description of alternate and state whether add or deduct)* for the lump sum of:

_____Dollars ($ _____)

Alternate No. 3 *(Owner to provide description of alternate and state whether add or deduct)* for the lump sum of:

_____Dollars ($ _____)

Alternate No. 4 *(Owner to provide description of alternate and state whether add or deduct)* for the lump sum of:

_____Dollars ($ _____)

NOTE TO BIDDERS: (Insert Applicable Notes if Alternates are required)

NAME OF BIDDER: _____

ADDRESS OF BIDDER: _____

_____

LOUISIANA CONTRACTOR'S LICENSE NUMBER: _____

NAME OF AUTHORIZED SIGNATORY OF BIDDER: _____

TITLE OF AUTHORIZED SIGNATORY OF BIDDER: _____

SIGNATURE OF AUTHORIZED SIGNATORY OF BIDDER **: _____

DATE: _____

THE FOLLOWING ITEMS ARE TO BE INCLUDED WITH THE SUBMISSION OF THIS LOUISIANA UNIFORM PUBLIC WORK BID FORM:

* The Unit Price Form shall be used if the contract includes unit prices. Otherwise it is not required and need not be included with the form. The number of unit prices that may be included is not limited and additional sheets may be included if needed.

**** A CORPORATE RESOLUTION OR WRITTEN EVIDENCE** of the authority of the person signing the bid for the public work as prescribed by LA R.S. 38:2212(B)(5).

BID SECURITY in the form of a bid bond, certified check or cashier's check as prescribed by LA R.S. 38:2218(A) attached to and made a part of this bid.

v1

v1

LOUISIANA UNIFORM PUBLIC WORK BID FORM
UNIT PRICE FORM

TO: Sewerage and Water Board of New Orleans
625 St. Joseph Street, New Orleans LA 70165

(Owner to provide name and address of owner)

BID FOR: CONTRACT 1420:
WPC PHASE 1 INSTALLATION AND COMMISSIONING

(*Owner to provide name of project and other identifying information)*

UNIT PRICES: This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ Offload SFC-1 Equipment: Receive, offload, assemble and install all SFC-1 equipment and enclosures provided by C1417 OEM and/or Contractor including but not limited to SFC Power Electronics enclosure, 60Hz Transformer, 25Hz Transformer, and all associated electrical and mechanical equipment shipped inside and outside the enclosure. Set and install enclosure to permanent weatherproofed condition. Complete installation and interconnection of power and control wiring between all SFC-1 equipment through electrical raceways provided by other Contracts and this Contract. The enclosure's HVAC system shall be started, calibrated, operated and maintained via Contractor supplied temporary power system.			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
1	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ Interconnect SFC-1 Equipment: Installation, interconnection, and testing of electrical and control cable from SFC-1 to 24kV termination points at WPCAUX PDC-2, 6.6kV termination points at SSCC, and 480V termination points at WPCAUX PDC-1. Cable and wire installation will be through electrical raceways provided by other Contracts and through raceways provided and installed by this Contract, which are included in this bid item. Includes but is not limited to coordination with the C1435 Supplier regarding readiness of electrical and control cable required for this bid item.			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
2	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ Offload SFC-2 Equipment: Receive, offload, assemble and install all SFC-2 equipment and enclosures provided by C1417 OEM and/or Contractor including but not limited to SFC Power Electronics enclosure, 60Hz Transformer, 25Hz Transformer, and all associated electrical and mechanical equipment shipped inside and outside the enclosure. Set and install enclosure to permanent weatherproofed condition. Complete installation and interconnection of power and control wiring between all SFC-2 equipment through electrical raceways provided by other Contracts and this Contract. The enclosure's HVAC system shall be started, calibrated, operated and maintained via Contractor supplied temporary power system.			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
3	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ Interconnect SFC-2 Equipment: Installation, interconnection, and testing of electrical and control cable from SFC-2 to 24kV termination points at WPCAUX PDC-2, 6.6kV termination points at SSCC, and 480V termination points at WPCAUX PDC-1. Cable and wire installation will be through electrical raceways provided by other Contracts and through raceways provided and installed by this Contract, which are included in this bid item. Includes but is not limited to coordination with the C1435 Supplier regarding readiness of electrical and control cable required for this bid item.			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
4	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ Offload WPCAUX PDC-1 Equipment: Receive, offload, assemble and install all equipment and enclosures associated with PDC-1 provided by the C1427 OEM and/or Contractor including but not limited to PDC-1 enclosure and all associated electrical and mechanical equipment shipped inside and outside the enclosure. Set and install enclosure to permanent weatherproofed condition. Complete installation and interconnection of power and control wiring between all PDC-1 equipment through electrical raceways provided by other Contracts and through raceways provided and installed by this Contract, which are included in this bid item. Enclosure's HVAC system shall be started, calibrated, operated and maintained via Contractor supplied temporary power system.			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
5	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ Interconnect WPCAUX PDC-1 Equipment: Installation, interconnection, and testing of electrical and control cable from PDC-1 to 4.16kV

	termination points at WPCCTG.7 EER, low voltage termination points at WPCAUX XFMR 301A, low voltage termination points at WPCAUX XFMR 401A. Cable and wire installation will be through electrical raceways provided by other Contracts and through raceways provided and installed by this Contract, which are included in this bid item. Includes but is not limited to coordination with the C1435 Supplier regarding readiness of electrical and control cable required for this bid item.			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
6	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ Offload WPCAUX PDC-2 Equipment: Receive, offload, assemble and install all equipment and enclosures associated with PDC-2 provided by the C1427 OEM and/or Contractor including but not limited to PDC-2 enclosure and all associated electrical and mechanical equipment shipped inside and outside the enclosure. Set and install enclosure to permanent weatherproofed condition. Complete installation and interconnection of power and control wiring between all PDC-2 equipment through electrical raceways provided by other Contracts and through raceways provided and installed by this Contract, which are included in this bid item. Enclosure's HVAC system shall be started, calibrated, operated and maintained via Contractor supplied temporary power system.			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
7	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ Interconnect WPCAUX PDC-2 Equipment: Installation, interconnection, and testing of electrical and control cable from PDC-2 to 24kV termination points at SSWPC, 24kV termination points at WPCCTG.7 GSU, 24kV termination points at CWPYRD, 4.16kV termination points at WPCAUX XFMR 301A. Cable and wire installation will be through electrical raceways provided by other Contracts and through raceways provided and installed by this Contract, which are included in this bid item. Includes but is not limited to coordination with the C1435 Supplier regarding readiness of electrical and control cable required for this bid item.			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
8	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ Offload and Install CTG-7 Equipment: Receive, offload assemble and install CTG-7, EER, Fuel Gas Compressor, Lube oil fans, auxiliary transformer, support structures and all associated electrical, mechanical, and structural components provided by C1438 OEM and/or Contractor. Provide materials and qualified personnel to complete mechanical installation of all C1438 equipment and components. Complete installation and interconnection of power and control wiring between all CTG-7 equipment through electrical raceways provided by other Contracts and through raceways provided and installed by this Contract, which are included in this bid item. EER's HVAC system shall be started, calibrated, operated and maintained via Contractor supplied temporary power system.			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
9	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ CTG 6 GSU Transformer: Receive, offload, assemble and set CTG 6 GSU Transformer provided by C1440 OEM. Connect, operate and maintain temporary heaters. Complete installation and interconnection of power and control wiring between GSU equipment through electrical raceways provided by other Contracts and this Contract. Installation, interconnection, and testing of electrical and control cable from CTG 6 GSU to 24kV termination points, 13.8kV termination points, and 480V termination points. Cable and wire installation will be through electrical raceways provided by other Contracts and through raceways provided and installed by this Contract, which are included in this bid item. Includes but is not limited to coordination with the C1435 Supplier regarding readiness of electrical and control cable required for this bid item. Includes but is not limited to decommissioning, removal, salvage and reconfiguration of existing T6 transformer, feeders, control wiring, and associated switchgear cubicles.			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
10	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ CTG 7 GSU Transformer: Receive, offload, assemble and set CTG 7 GSU Transformer provided by C1440 OEM. Connect, operate and maintain temporary heaters. Complete installation and interconnection of power and control wiring between GSU equipment through electrical raceways provided by other Contracts and this Contract. Installation, interconnection, and testing of electrical and control cable from CTG 7 GSU to 24kV termination points, 13.8kV termination points, and 480V termination points. Cable and wire installation will be through electrical raceways provided by other Contracts and through raceways provided and installed by this Contract, which are included in this bid item. Includes but is not limited to coordination with the C1435 Supplier regarding readiness of electrical and control cable required for this bid item			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
11	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ Balance of Plant (WPC Area): Provide Contractor supplied Balance of Plant Mechanical, Electrical, Controls and Instrumentation equipment and components, piping, wire and cable. Install all BOP equipment, piping, wire and cable including Owner supplied components in the WPC area. Includes, but is not limited to WPCAUX transformers, fuel oil piping, air compressors, fuel oil day tank and pumps, and all associated grouting, platforms, supports.

REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
12	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ Fuel Oil System (outside WPC Area): Provide Contractor supplied Fuel Oil system Mechanical, Electrical, Controls and Instrumentation equipment and components, piping, wire and cable and install all Fuel Oil equipment, piping, wire and cable including Owner supplied components outside the WPC area. Includes, but is not limited to Electrical components, Fuel Oil Forwarding Pump Skid, all associated grouting, platforms, supports, as well as tie-in to existing facility and/or WPC. Supply and Installation of Fuel Oil Single and Double Wall Containment Piping, Supports, and Tie-ins, Including Supply and Installation of Leak Detection System.

REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
13	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ Natural Gas Piping: Provide and install Contractor supplied gas pipe to interconnect natural gas piping at Utility meter to the existing natural gas pipe at the east end of the Utility Rack, and to interconnect the existing natural gas pipe at the west end of the Utility Rack to the WPC CTG7 Fuel Gas Compressor. Includes, but is not limited to, piping, underground routing, tie-in, and testing.

REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
14	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ Electrical/Controls Raceway (WPCUR Interface): Provide Contractor delegated designed and supplied raceway to interconnect WPCUR raceway to SSCC, including but not limited to East Transition Structure Non-Segregated bus duct interface. Provide Contractor delegated designed and supplied raceway interface at the Eastern end of the WPCUR including but not limited to interface with ground level raceway infrastructure.

REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
15	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ Electrical/Controls Raceway (Utility Connection): Provide Contractor supplied raceway to interconnect WPC infrastructure to the Utility Substation. Includes, but is not limited to, above ground raceway through the SFC area from PDC-2 to the Utility tie-in point, and coordination with the Utility.

REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
16	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ Relay Settings and Configuration: Supply and implement protective relays as outlined in the Contract Documents. Includes but is not limited to Contractor determined relay settings and configuration, and power quality protection validation.

REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
17	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ Load Bank Relocation: Relocation and configuration of existing Load Bank to the WPCAUX systems. Includes but is not limited to coordination with the Load Bank OEM to confirm adequacy-for-purpose.

REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
18	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ Platforms - SFC Area: Fabricate and install elevated steel platforms, handrails, and ancillary items in the SFC work area. Shop drawings and fabrication shall be based on Contractor-verified dimensions of Owner-provided structures equipment and enclosures. Includes but is not limited to testing and inspection services.

REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
19	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ Platforms – CTG-7 Area: Fabricate and install elevated steel platforms, handrails, and ancillary items in the CTG-7 work area. Shop drawings and fabrication shall be based on Contractor-verified dimensions of Owner-provided structures equipment and enclosures. Includes but is not limited to testing and inspection services.

REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
20	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ Platforms – BOP/Aux Area: Fabricate and install elevated steel platforms, handrails, and ancillary items in the BOP/AUX work area. Shop drawings and fabrication shall be based on Contractor-verified dimensions of Owner-provided structures equipment and enclosures. Includes but is not limited to testing and inspection services.

REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
21	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___PDCS: Supply of and integration of components into the Power Distribution Control System (PDCS). Including but not limited to integrating new nodes and upgrading existing nodes with network configuration updates, HMI updates, historian updates, safety light modifications, cardkey configuration, making ready for GCS implementation, adding pre-programmed sequences, developing shift reports, adding/modifying/updating OTI-PI interfaces, and adding all associate cable and raceway necessary cable and raceway for EWS and printer network connection to the PDCS. PDCS scope is included in the following Functional Areas: CWPCC, CWPCTG.6, CWPENG, CWPELS, CWPSHP, CWPL4G3, CWPPH, CWPYRD, SSCC, SSCLA, SSHAM, SSPFC, SSSYC, SSWPC, SSYRD, WPCAUX, WPCCTG.7, WPCSFC1, WPCSFC2. Specific requirements for each PDCS node are defined in the Contract Documents.

REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
22	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ 25Hz Outside Switchgear: Install new switchgear. Provide and install new manhole and ductbanks. Reroute and terminate feeders associated with the 25Hz SSYRD. Repurpose spare SSYRD switchgear breaker. Includes but is not limited to testing and commissioning cables and switchgear.

REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
23	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ 60Hz Outside Switchgear Area (CWPYRD): Install new ductbank to connect existing west manhole to existing south manhole. Reconfigure XFMR B primary tap from 13.8kV to 24kV. Supply, install, configure, and commission SEL 787 transformer protection relay. Relocate PH MCC 5 from PFC to CWPYRD. Includes but is not limited to testing and commissioning cables and switchgear.

REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
24	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ Security and Fire Protection Systems: Provide, install, and commission all components required for the Security and Fire Protection Systems, including but not limited to cardkey configuration, CCTV configuration, and addressable fire alarm system with partial emergency communication. Coordinate and install fiber, power, and control cables supplied under C1435. Complete all interconnection, testing and commissioning.

REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
25	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ Cathodic Protection: Provide, install and commission Cathodic Protection Systems. Interconnect and commission Utility Rack cathodic protection components supplied and installed by others under C1418. Supply, install, interconnect and commission all other cathodic protection components as indicated in the Contract Documents. Includes installation of power and control cable supplied under C1435 and/or Contractor.

REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
26	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ Equipment Grounding: Interconnect and commission grounding system. Includes but not limited to connecting grounding grid installed under C1415 to all equipment installed by Contractor.

REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
27	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ Lighting: Interconnect and commission Utility Rack Lighting components supplied and installed by others under C1418. Supply, install, interconnect and commission all other equipment lighting as indicated in the Contract Documents. Includes installation of power and control cable supplied under C1435 and/or Contractor.

REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
28	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ Cable Management: Shipping, management and coordination of Owner supplied power and control cables provided under C1435, located at a storage facility not to exceed 400 miles from the project site. Includes direct communication with C1435 supplier regarding management and coordination of the C1420 construction schedule and C1435 material supply.

REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*

29	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ Commissioning Agent Services: Includes but is not limited to facilitating all items related to Construction Completions, Equipment Commissioning and Functional Testing, Facility Startup and Performance Testing, and Integrated Facility Testing. Provide and maintain a Completions Management System. Prepare Inspection and Test Plans. Prepare Operation Test Procedures. Develop Use Cases. Lead facility startup meetings. Develop and maintain a schedule. Prepare documentation, record results and report findings. Commissioning Agent Services will be coordinated with personnel associated with the Owner, Contractor, and OEM/Suppliers.			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
30	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ Equipment Startup/Commissioning (SFCs and PDCs): Startup and Commissioning of SFC-1, SFC-2, PDC-1, PDC-2 including all associated equipment and components provided by C1417 OEM and C1427 OEM and/or Contractor. Startup and Commissioning efforts will be facilitated by the Commissioning Agent and coordinated with personnel associated with the Owner, Contractor, and OEM/Supplier.			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
31	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ Equipment Startup/Commissioning (CTG-7): Commissioning of CTG-7 including all associated equipment and components provided by C1438 OEM and/or Contractor. Startup and Commissioning efforts will be facilitated by the Commissioning Agent and coordinated with personnel associated with the Owner, Contractor, and OEM/Supplier.			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
32	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ Equipment Startup/Commissioning (GSUs): Commissioning of CTG6-GSU and CTG7-GSU including all associated equipment and components provided by C1440 OEM and/or Contractor. Startup and Commissioning efforts will be facilitated by the Commissioning Agent and coordinated with personnel associated with the Owner, Contractor, and OEM/Supplier.			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
33	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ Equipment Startup/Commissioning (Contractor Supplied WPC Area): Commissioning of all other components in the WPC including but not limited to BOP area components provided by Contractor. Startup and Commissioning efforts will be facilitated by the Commissioning Agent and coordinated with personnel associated with the Owner, Contractor, and OEM/Supplier.			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
34	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ Equipment Startup/Commissioning (Contractor Supplied outside WPC Area): Commissioning of all other components outside the WPC including the Fuel Oil System provided by Contractor. Startup and Commissioning efforts will be facilitated by the Commissioning Agent and coordinated with personnel associated with the Owner, Contractor, and OEM/Supplier			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
35	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ Integrated Commissioning: Services associated with Integrated Commissioning and implementation of all Use Cases developed by the Commissioning Agent. Integrated Commissioning efforts will be facilitated by the Commissioning Agent and coordinated with personnel associated with the Owner, Contractor, OEM/Suppliers, and Utility.			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
36	1	LS		

DESCRIPTION:	☐ Base Bid or ☒ Alt.# _1_ Offload SFC-3 Equipment: Receive, offload, assemble and install all SFC-3 equipment and enclosures provided by C1417 OEM and/or Contractor including but not limited to SFC Power Electronics enclosure, 60Hz Transformer, 25Hz Transformer, and all associated electrical and mechanical equipment shipped inside and outside the enclosure. Set and install enclosure to permanent weatherproofed condition. Complete installation and interconnection of power and control wiring between all SFC-3 equipment through electrical raceways provided by other Contracts and this Contract. The enclosure's HVAC system shall be started, calibrated, operated and maintained via Contractor supplied temporary power system.

REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
37	1	LS		

DESCRIPTION:	☐ Base Bid or ☒ Alt.# _2__ Interconnect SFC-3 Equipment: Installation, interconnection, and testing of electrical and control cable from SFC-3 to 24kV termination points at WPCAUX PDC-2, 6.6kV termination points at SSCC, and 480V termination points at WPCAUX PDC-1. Cable and wire installation will be through electrical raceways provided by other Contracts and through raceways provided and installed by this Contract, which are included in this bid item. Includes but is not limited to coordination with the C1435 Supplier regarding readiness of electrical and control cable required for this bid item.			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
38	1	LS		

DESCRIPTION:	☐ Base Bid or ☒ Alt.# _3__ Equipment Startup/Commissioning (SFC-3): Startup and Commissioning of SFC-3 including all associated equipment and components provided by C1417 OEM and/or Contractor. Startup and Commissioning efforts will be facilitated by the Commissioning Agent and coordinated with personnel associated with the Owner, Contractor, and OEM/Supplier.			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
39	1	LS		

DESCRIPTION:	☐ Base Bid or ☒ Alt.# _4__ Integrated Commissioning (SFC-3): Commissioning Agent services associated with Integrated Commissioning and Implementation of Use Cases associated with SFC-3. Integrated Commissioning efforts will be facilitated by the Commissioning Agent and coordinated with personnel associated with the Owner, Contractor, OEM/Suppliers, and Utility.			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
40	1	LS		

Wording for "DESCRIPTION" is to be provided by the Owner.
All quantities are estimated. The contractor will be paid based upon actual quantities as verified by the Owner.

1-2 ADDITIONAL REQUIREMENTS

All blank spaces in this Proposal section shall be filled. A bid price shall be indicated for each bid item. Bids received without all such items completed will be considered non-responsive. The bid shall contain an acknowledgement of receipt of all Addenda in space provided. The Louisiana Uniform Public Work Bid Form & Unit Price Form (if applicable) and the amount of Deposit or Bid Bond five percent (5%) of the total amount of the proposal is REQUIRED to be submitted in a sealed envelope on bid opening date. The two (2) lowest numerical bidders have three (3) days after the bid opening (exclusive of Saturdays, Sundays and Holidays) to submit any additional information such as (Voluntary Extension Sheet, Affidavit, Economically Disadvantage Business Summary Sheet if applicable) as well as requirements of Sections 1-3 through 1-6 below. Failure to do so will render the bid non-responsive.

1-3 BIDDER DECLARATION

____ do hereby declare that _____ the only person _____ interested in this proposal and that no other person than the one _____ herein named have any interest herein or in the contract proposed to be taken; that it is made without any connection with any other person or persons making proposal for the same work and that it is in all respects fair and without collusion or fraud; also that no member of the Sewerage and Water Board or of the City Council of the City of New Orleans or any officer or employee of the City of New Orleans or of the several boards thereof, who are by law excluded from participation herein, and directly or indirectly interested herein or in furnishing bond or in any portion of the profits hereof.

_____ do hereby also declare that _____ have LOUISIANA CONTRACTOR'S LICENSE in the field of _____ with NUMBER _____.

And _____ do further declare that _____ have carefully examined the annexed specifications and the drawings furnished, and personally inspected the ground and that _____ will contract to provide the necessary tools, machinery and apparatus and other means of construction, and to furnish all labor and material specified in this contract or called for by the plans, necessary to complete the work in the manner specified and within the time mentioned in the specifications and according to the requirements of the Engineer, as herein set forth.

1-4 In accordance with Louisiana Revised Statute 38:2227 the following affidavit shown on the next page must be submitted with the bid, or no later than 3 days after the bid opening (excluding Saturdays, Sundays, and Holidays). Failure to do so will render the bid non-responsive. **Please note, THE AFFIDAVIT MUST BE NOTARIZED.**

1-5 GUARANTEES

_____guarantee that the whole of the work under this contract will be substantially completed within **[430]** calendar days after the date of the "Commencement of Contract Times."

In case of delay in the completion of the contract beyond the contract time of completion as determined by the Board hereby agree to pay, as liquidated damages, the sum of **Twenty Thousand Dollars ($20,000.00)** for each calendar day of such delay, which liquidated damages shall become due by the mere elapsing of the delay without the necessity of putting in default.

1-6 EMERGENCY PROCEDURES

Contractor must furnish telephone numbers for routine or emergency telephone calls.

NAME TITLE

_____

TELEPHONE NO.:
NORMAL CALLS _____

EMERGENCY _____

STATE OF LOUISIANA
PARISH OF ORLEANS

AFFIDAVIT

BEFORE ME, the undersigned authority, duly commissioned and qualified and sworn in and for the State and Parish aforesaid, personally came and appeared _____ who after being duly sworn, did depose and say as follows:

1) He/she is the _____ (title) of _____ (company);

2) He/she has not been convicted of, or has entered a plea of guilty or nolo contendere to any of the crimes, or equivalent federal crimes, listed in Louisiana Revised Statute 38:2227, specifically: public bribery, corrupt influencing, extortion, money laundering, theft, identity theft, theft of a business record, false accounting, issuing worthless checks, bank fraud, forgery, contractors misapplication of payments, malfeasance in office.

3) The contracting entity, person or corporation whose principal(s), member(s), and /or Officer(s) have, within the preceding 5 years, not been convicted or plead guilty to, a felony under state or federal statutes, for embezzlement, theft of public funds, bribery, falsification or destruction of public records; (City Code Section 2-8)

4) The following is a list of individual partners, incorporators, directors, managers, officers, organizers, or members who have a minimum ten percent interest ownership interest in the bidding entity:

_____(name) _____(name)

_____(name) _____(name)

_____(name) _____(name)

5) No other persons hold an ownership interest in the bidding entity via a counter letter.

6) None of the above named individual partners, incorporators, directors, managers, officers, organizers, or members, who has a minimum ten percent interest ownership in the bidding entity, been convicted of, or has entered a plea of guilty or nolo contendere to any of the crimes, or equivalent federal crimes, listed in Louisiana Revised Statute 38:2227, specifically: public bribery, corrupt influencing, extortion, money laundering, theft, identity theft, theft of a business record, false accounting, issuing worthless checks, bank fraud, forgery, contractors misapplication of payments, malfeasance in office.

7) He/she is not delinquent on any taxes owed the City of New Orleans or fees/charges to the Sewerage and Water Board. (City Code Section 2-8)

The following sections apply only to Public Works Contracts:

8) In accord with LA Revised Statute 38:2212.10 the entity represented herein is registered and participates in the "Status verification system" of the Illegal Immigration Reform and Immigrant Responsibility Act of 1996, 8 U.S.C. 1324(a), known as the "E-Verify" program to verify that all employees in the State of Louisiana are legal citizens of the United States or are legal aliens.

9) The entity represented herein shall continue, during the term of the contract, to utilize a status verification system to verify the legal status of all new employees in the state of Louisiana.

10) The entity represented herein shall require all subcontractors to submit to the contractor a sworn affidavit verifying compliance with the Status verification system.

WITNESSES:

_____ _____
AFFIANT

_____

SWORN TO AND SUBSCRIBED BEFORE ME ON THIS

_____ DAY OF _____, 20_____.

_____ _____
NOTARY PUBLIC **Notary Id. No. or Bar Roll No.**

_____
PLEASE PRINT NAME OF NOTARY

v1

New Orleans Sewerage & Water Board
W21-109-TP Static Frequency Convertor-1 Building
PDC Reinstallation Manual.
Point Eight Power Job No. R50620-01

The purpose of this manual is to help guide the site installation contractor reinstall the building and its components back together at site. The use of this manual and the R50620-01 building drawing package which included the structural skid modules and electrical interconnection drawings.

Reference dwg 5E *Field Instructions for Building Assembly* to get started with the placement and installation of the 4 building sections. This drawing provides the main source of information on the installation procedure and the steps needed to bolt and seal the building sections together.

When the building is prepped for shipping from the PEP facility major exterior components that protrude outward from the building will have to be removed for shipping and reinstalled at site.

These exterior items are:

- HVAC's and HVAC platforms.
- SWGR Arc ducts.
- Door canopy's, SFC HEX units and platforms.
- Down spouts.

The interior items that will be removed for shipping are:

- Column top hat covers.
- Shipping Split Junction boxes and associated control wiring, associated wire ways, Gnd bus.
- Cable tray shipping spits-associated cables.
- High Voltage cable conduits.

The building will ship from PEP facility in the 4 skid sections with the shipping split walls protected from the weather. This will have to be removed once at site. All HVAC penetrations and HEX unit openings will be covered for shipment. These covers will have to be removed as equipment is reinstalled.

Once the 4 building skid sections have been installed, completely assembled and sealed from the weather you can proceed to install the HVAC skids and HEX unit skids. Next would be the installation of the HVAC units. When lifting the HVAC use the forklift pad made within the HVAC structure and make sure the HVACs are placed in the correct location as shown on R50620-01 dwg sheet 2 for HVAC numbering locations.

When installing the HVAC to the building make sure the silicone caulking is applied to the top and 2 vertical sections of the HVAC flange that mates to the building to prevent any water leaks. Then reinstall the HVAC rain shield on top the HVAC and apply silicone sealant where the rain shield meets the building.

PROCEEDING AS BUILT REVISIONS

COVER SHEET REV.	REVISION, AFFECTED SHEETS, AND DESCRIPTION OF CHANGE

NOTE:
THE ABOVE PROCEEDING AS BUILT REVISIONS AREA SHALL BE USED TO RECORD ALL DRAWING CHANGES AFTER THE REVISION LEVEL OF AS BUILT, ALL

NEW ORLEANS SEWERAGE & WATER BOARD
W21-109-TP STATIC FREQUENCY CONVERTER -1 BLDG. 93'X26'X12'
P.O. NO. W21-109-TP-2030

DRAWING LIST

DWG. NO.	SHEET	REV	DRAWING TITLE
R50620-01	1	2	COVER SHEET WITH DRAWING LIST AND DETAILS
R50620-01	2	2	PLAN VIEW
R50620-01	3	2	FLOOR CUTOUTS
R50620-01	3A	2	FLOOR CUTOUT DIMENSIONS, (DETAIL-1)
R50620-01	3B	2	FLOOR CUTOUT DIMENSIONS, (DETAIL-2)
R50620-01	4	2	BASE DETAIL
R50620-01	4A	2	PIER REFERENCE DETAILS
R50620-01	4B	2	PIER DIMENSION DETAILS, (BLDG & HVAC SUPPORT LOCATIONS)
R50620-01	4C	2	PIER DIMENSION DETAILS, (HEX UNIT SUPPORT LOCATIONS)
R50620-01	5	2	ELEVATION VIEWS, (1 & 3)
R50620-01	5A	2	ELEVATION VIEWS, (2 & 4)
R50620-01	5B	2	BUILDING SHIPPING SPLIT DETAILS-1
R50620-01	5C	2	BUILDING SHIPPING SPLIT DETAILS-2
R50620-01	5D	2	BUILDING RE-ASSEMBLY AND CAULKING DETAILS
R50620-01	5E	2	FIELD INSTRUCTIONS FOR BUILDING REASSEMBLY
R50620-01	5F	2	HVAC UNIT SUPPORT LANDING DETAILS
R50620-01	5G	2	AIR-TO-AIR HEX UNIT SUPPORT LANDING DETAILS
R50620-01	5H	2	ROOF CAP RE-ASSEMBLY DETAILS
R50620-01	6	2	CABLE TRAY DETAILS
R50620-01	7	2	GROUNDING DETAILS
R50620-01	8	2	ELECTRICAL PLAN VIEW
R50620-01	9	2	AC WIRING DIAGRAM 1
R50620-01	9A	2	AC WIRING DIAGRAM HIGH VOLTAGE
R50620-01	10	2	AC WIRING DIAGRAM 2
R50620-01	11	2	DC WIRING DIAGRAM 1
R50620-01	12	2	UPS DISTRIBUTION DIAGRAM
R50620-01	INT-1	2	INTERCONNECTS SHEET 1
R50620-01	INT-2	2	INTERCONNECTS SHEET 2
R50620-01	INT-3	2	INTERCONNECTS SHEET 3
R50620-01	JB-1	2	JUNCTION BOX 1
R50620-01	JB-2	2	JUNCTION BOX 2
R50620-01	JB-3	2	JUNCTION BOX 3
R50620-01	JB-4	2	JUNCTION BOX 4
R50620-01	F1	2	REMOVED
R50620-01	LIFT-1	2	SUGGESTED LIFT PLAN, (SECTION-1)
R50620-01	LIFT-2	2	SUGGESTED LIFT PLAN, (SECTION-2)
R50620-01	LIFT-3	2	SUGGESTED LIFT PLAN, (SECTION-3)
R50620-01	LIFT-4	2	SUGGESTED LIFT PLAN, (SECTION-4)
R50620-01	BOM	2	BILL OF MATERIALS (REFERENCE 8.5 X 11 SHEETS)

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CONSTRUCTION DETAILS

1. ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 LATEST EDITION.
2. ALL WELDS SHALL BE IN ACCORDANCE WITH PEP BASE DETAIL WELD STANDARDS.
3. STRUCTURE SHALL BE ADEQUATELY SUPPORTED DURING FABRICATION TO PREVENT EXCESS DEFLECTION.
4. BUILDING LIFT WILL BE IN ACCORDANCE WITH PEP SUGGESTED LIFT PLAN.
5. BUILDING BASE ELEVATION FROM GRADE SHALL BE LIMITED TO 10'-0" MAXIMUM.

PAINT DETAILS

1. ALL PAINTING SHALL CONFORM TO PEP PAINT QUALITY STANDARDS FOR PCD BUILDINGS. SEE R50620-01-BOM FOR DETAILS.

BILL OF MATERIAL DETAILS

1. REFERENCE DOCUMENT NO. R50620-01-BOM

NO.	REVISION	DATE	BY	PM	APP
2	AS-BUILT	11/17/23	SV	JS	GC
1B	RE-ISSUED FOR CONSTRUCTION	04/12/23	JHB	JS	DDB
1C	RE-ISSUED FOR CONSTRUCTION	09/28/22	JWS	JS	DDB
1B	RE-ISSUED FOR CONSTRUCTION	08/11/22	JWS	JS	DDB
1A	RE-ISSUED FOR CONSTRUCTION	05/24/22	JWS	JS	DDB
1	ISSUED FOR CONSTRUCTION	01/20/22	JWS	JS	CG
AC	RE-ISSUED FOR APPROVAL	12/08/21	JAL	JS	BG
AB	RE-ISSUED FOR APPROVAL	11/12/21	JWS	JS	WG

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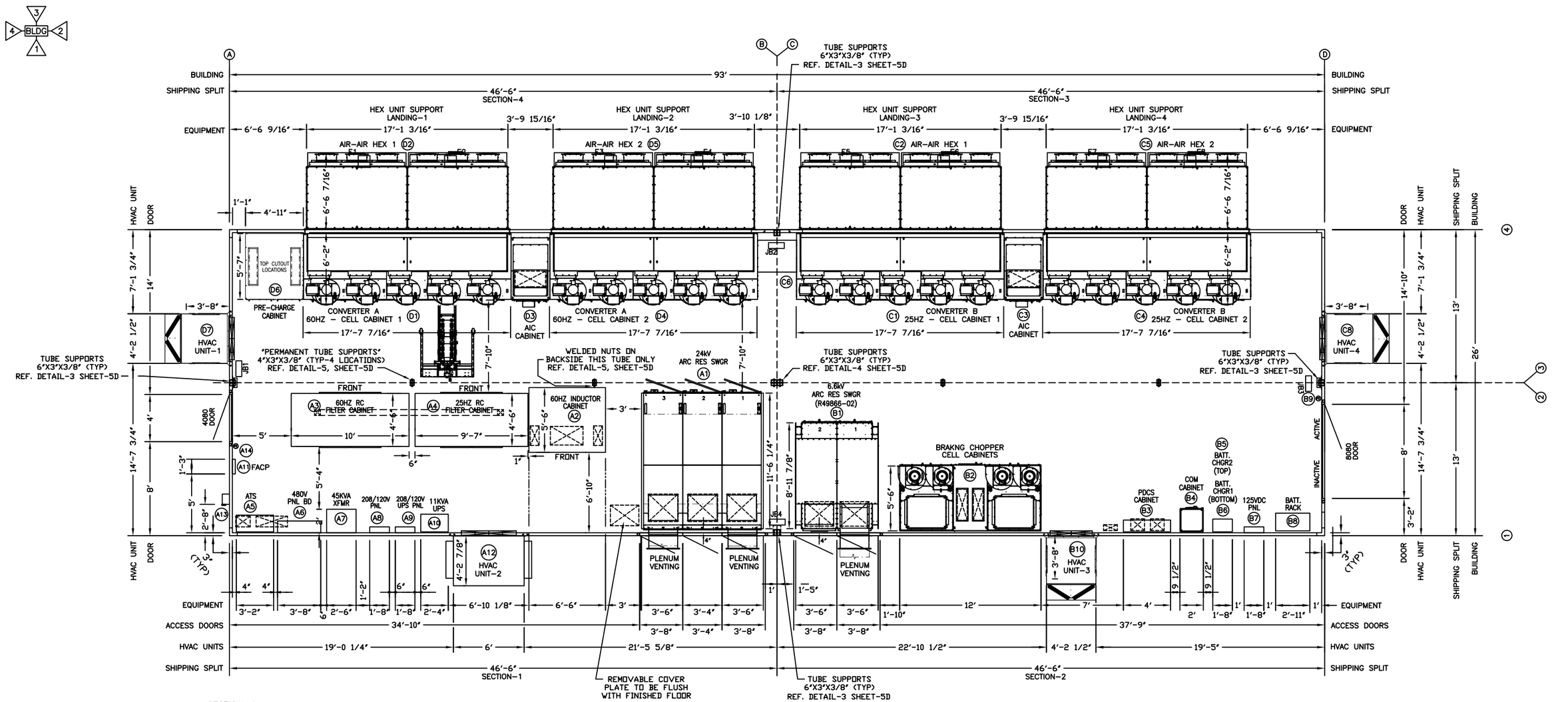
COVER SHEET WITH DRAWING LIST AND DETAILS
NEW ORLEANS SEWERAGE & WATER BOARD
W21-109-TP STATIC FREQUENCY CONVERTER -1 BLDG.
(93'X26'X12' PCD BUILDING)
P.O. NO.#: W21-109-TP-2030

SCALE: FOR REF. ONLY	PROJ. MGR.	DESIGN BY	DWG. NO.	SHEET
NONE	JS	JWS	R50620-01	1

POINT EIGHT POWER, INC. 1503 / 1510 ENGINEERS RD. BELLE CHASSE, LA 70037



SECTION-4

REF NO	FURNISHED BY	QTY	DESCRIPTION	EQUIPMENT TAGS	EQUIPMENT WEIGHT LBS
D1	OTHERS	1	CONVERTER (A) 60HZ CELL CABINET 1	WPCSFC-1-SFC60-CNV-201	19,845 LBS
D2	OTHERS	1	AIR TO AIR HEX UNIT 1	WPCSFC-1-SFC60-HEX-201	8,707 LBS
D3	OTHERS	1	AIC CABINET, 60HZ	WPCSFC-1-SFC60-AIC-201	3,747 LBS
D4	OTHERS	1	CONVERTER (A) 60HZ CELL CABINET 2	WPCSFC-1-SFC60-CNV-202	19,845 LBS
D5	OTHERS	1	AIR TO AIR HEX UNIT 2	WPCSFC-1-SFC60-HEX-202	8707 LBS
D6	OTHERS	1	PRE-CHARGE CABINET	WPCSFC-1-SFCDC-PCHG-001	4,061 LBS
D7	POINT EIGHT	1	10 TON HVAC UNIT	WPCSFC-1-HV-HVAC-01	1,160 LBS

SECTION-1

REF NO	FURNISHED BY	QTY	DESCRIPTION	EQUIPMENT TAGS	EQUIPMENT WEIGHT LBS
A1	POINT EIGHT	3	24KV ARC RES SWGR, 60HZ	WPCSFC-1-EMV60-SG-201	20,500 LBS
A2	OTHERS	1	60HZ INDUCTOR CABINET	WPCSFC-1-EMV60-CAB-201	11,200 LBS
A3	OTHERS	1	60HZ RC FILTER CABINET	WPCSFC-1-EMV60-RCFLT-201	5,000 LBS
A4	OTHERS	1	25HZ RC FILTER CABINET	WPCSFC-1-EMV25-RCFLT-101	5,000 LBS
A5	POINT EIGHT	1	480V, 600A AUTOMATIC TRANS. SW.	WPCSFC-1-ELV60-ATS-201	800 LBS
A6	POINT EIGHT	1	480V PANELBOARD	WPCSFC-1-ELV60-PP-201	400 LBS
A7	POINT EIGHT	1	45KVA DIST. XFMR, 480V-120/208V	WPCSFC-1-ELP60-XFMR-201	400 LBS
A8	POINT EIGHT	1	208/120V PANELBOARD	WPCSFC-1-ELP60-PP-201	200 LBS
A9	POINT EIGHT	1	UPS PANELBOARD, 208/120V	WPCSFC-1-EUP60-PP-201	200 LBS
A10	POINT EIGHT	1	11KVA UPS SYSTEM	WPCSFC-1-EUP60-UPS-201	466 LBS
A11	POINT EIGHT	1	FIRE ALARM CONTROL PANEL	WPCSFC-1-FP-PNL-01	20 LBS
A12	POINT EIGHT	1	15 TON HVAC UNIT	WPCSFC-1-HV-HVAC-02	2,200 LBS
A13	POINT EIGHT	1	WELDING RECEPTACLE	--	30 LBS
A14	POINT EIGHT	1	10LB FIRE EXTINGUISHER	--	10 LBS

SECTION-3

REF NO	FURNISHED BY	QTY	DESCRIPTION	EQUIPMENT TAGS	EQUIPMENT WEIGHT LBS
C1	OTHERS	1	CONVERTER (B) 25HZ CELL CABINET	WPCSFC-1-SFC25-CNV-101	19,845 LBS
C2	OTHERS	1	AIR TO AIR HEX UNIT 1	WPCSFC-1-SFC25-HEX-101	8,707 LBS
C3	OTHERS	1	AIC CABINET, 25HZ	WPCSFC-1-SFC25-AIC-101	3,747 LBS
C4	OTHERS	1	CONVERTER (B) 25HZ CELL CABINET	WPCSFC-1-SFC25-CNV-102	19,845 LBS
C5	OTHERS	1	AIR TO AIR HEX UNIT 2	WPCSFC-1-SFC25-HEX-102	8,707 LBS
C6	OTHERS	1	DC LINK ADJUSTABLE THROAT	--	350 LBS
C7	OTHERS	1	FIBER JUNCTION BOX	WPCSFC-1-PDCS-JB-001	150 LBS
C8	POINT EIGHT	1	10 TON HVAC UNIT	WPCSFC-1-HV-HVAC-04	1,160 LBS

SECTION-2

REF NO	FURNISHED BY	QTY	DESCRIPTION	EQUIPMENT TAGS	EQUIPMENT WEIGHT LBS
B1	POINT EIGHT	2	6.6kV ARC RES SWGR, 25HZ	WPCSFC-1-EMV25-SG-101	8,000 LBS
B2	OTHERS	1	BRAKING CHOPPER CELL CABINETS	WPCSFC-1-SFCDC-BCHP-001 WPCSFC-1-SFCDC-BCHP-002 WPCSFC-1-SFCDC-BCHP-003	8,400 LBS
B3	OTHERS	1	PDCS CABINET	WPCSFC-1-PDCS-PNL-001	500 LBS
B4	OTHERS	1	COMMUNICATIONS CABINET	WPCSFC-1-COMM-CAB-001	966 LBS
B5	POINT EIGHT	1	125VDC BATTERY CHARGER-2	WPCSFC-1-EDC-BC-002	155 LBS
B6	POINT EIGHT	1	125VDC BATTERY CHARGER-1	WPCSFC-1-EDC-BC-001	155 LBS
B7	POINT EIGHT	1	125VDC PANELBOARD	WPCSFC-1-EDC-PP-001	300 LBS
B8	POINT EIGHT	1	125VDC LEAD ACID BATT. W/RACK	WPCSFC-1-EDC-BAT-001	785 LBS
B9	POINT EIGHT	1	10LB FIRE EXTINGUISHER	--	10 LBS
B10	POINT EIGHT	1	10 TON HVAC UNIT	WPCSFC-1-HV-HVAC-03	1,160 LBS

SHIP LOOSE ITEMS

REF NO	FURNISHED BY	QTY	DESCRIPTION	EQUIPMENT TAGS	EQUIPMENT WEIGHT LBS
-	POINT EIGHT	1	500KVA XFMR, 24KV/480 60HZ	WPCSFC-1-EMV60-XFMR-202	8,000 LBS
-	OTHERS	1	25HZ TRANSFORMER	WPCSFC-1-EMV25-XFMR-101	
-	OTHERS	1	60HZ TRANSFORMER	WPCSFC-1-EMV60-XFMR-201	

PLAN VIEW

NO.	REVISION	DATE	BY	PM	APP
A	AS-BUILT	11/17/23	SV	JS	GC
AC	RE-ISSUED FOR CONSTRUCTION	09/28/22	JWS	JS	DDB
AB	RE-ISSUED FOR CONSTRUCTION	08/11/22	JWS	JS	DDB
AA	RE-ISSUED FOR CONSTRUCTION	05/24/22	JWS	JS	DDB
3	ISSUED FOR CONSTRUCTION	01/20/22	JWS	JS	CG
AC	RE-ISSUED FOR APPROVAL	12/08/21	JAL	JS	CG
AB	RE-ISSUED FOR APPROVAL	11/12/21	JWS	JS	CG
AA	ISSUED FOR APPROVAL	09/15/21	JWS	JS	KS

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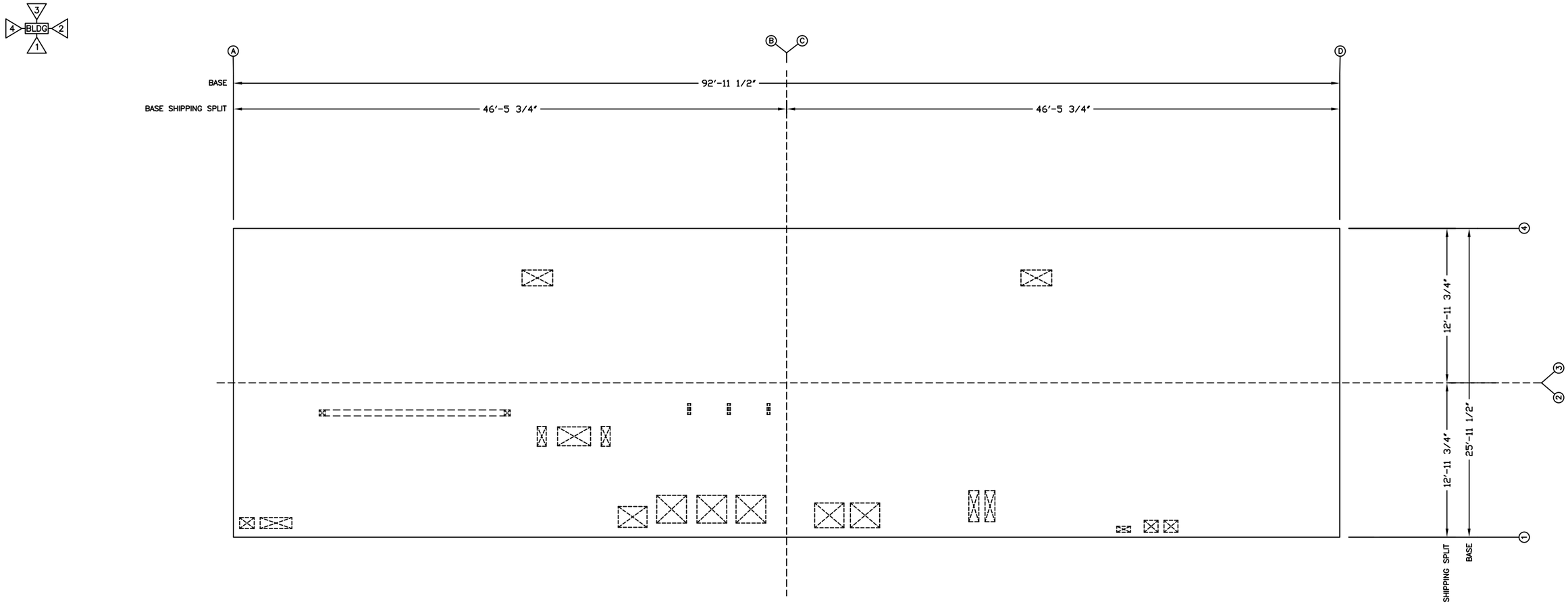
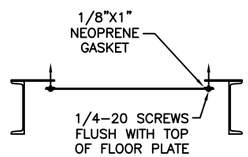
PLAN VIEW
NEW ORLEANS SEWERAGE & WATER BOARD
W21-109-TP STATIC FREQUENCY CONVERTER -1 BLDG.
(93'X26'X12' PCD BUILDING)
P.O. NO.#: W21-109-TP-2030

SCALE: FOR REF. ONLY	PROJ. MGR.	DESIGN BY	DWG. NO.	SHEET
1/4"=1'-0"	JS	JWS	R50620-01	2

POINT EIGHT POWER, INC. 1503 / 1510 ENGINEERS RD. BELLE CHASSE, LA 70037





BOTTOM REMOVABLE COVERPLATE
(TYPICAL FOR ALL)

REFERENCE BOM FOR PLATE MATERIAL

FLOOR CUTOUTS

NO.	REVISION	DATE	BY	PM	APP
2	AS-BUILT	11/17/23	SV	JS	GC
1C	RE-ISSUED FOR CONSTRUCTION	09/28/22	JWS	JS	DDB
1B	RE-ISSUED FOR CONSTRUCTION	08/11/22	JWS	JS	DDB
1A	RE-ISSUED FOR CONSTRUCTION	05/24/22	JWS	JS	DDB
1	ISSUED FOR CONSTRUCTION	01/20/22	JWS	JS	CG
0B	RE-ISSUED FOR APPROVAL	11/12/21	JWS	JS	CG
0A	ISSUED FOR APPROVAL	09/15/21	JWS	JS	KS

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FLOOR CUTOUTS
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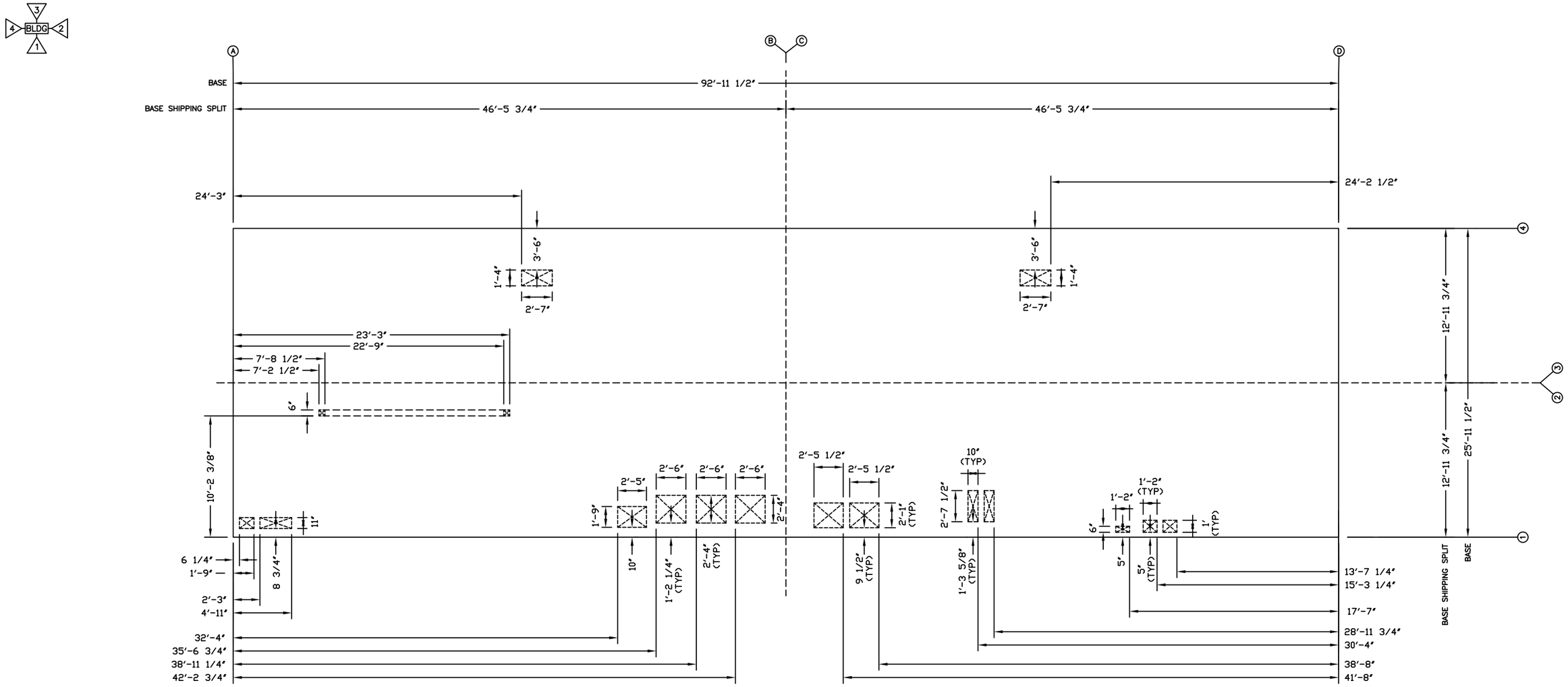
1/4"=1'-0"	JS	JWS	R50620-01	3

POINT EIGHT POWER, INC. 1503 / 1510 ENGINEERS RD. BELLE CHASSE, LA 70037



FLOOR CUTOUT DIMENSIONS, (DETAIL-1)

NO.	REVISION	DATE	BY	PM	APP
2	AS-BUILT	11/17/23	SV	JS	GC
1C	RE-ISSUED FOR CONSTRUCTION	09/28/22	JWS	JS	DDB
1B	RE-ISSUED FOR CONSTRUCTION	08/11/22	JWS	JS	DDB
1A	RE-ISSUED FOR CONSTRUCTION	05/24/22	JWS	JS	DDB
1	ISSUED FOR CONSTRUCTION	01/20/22	JWS	JS	CG
0A	ISSUED FOR APPROVAL	11/12/21	JWS	JS	WG

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FLOOR CUTOUT DIMENSIONS, (DETAIL-1)
NEW ORLEANS SEWERAGE & WATER BOARD
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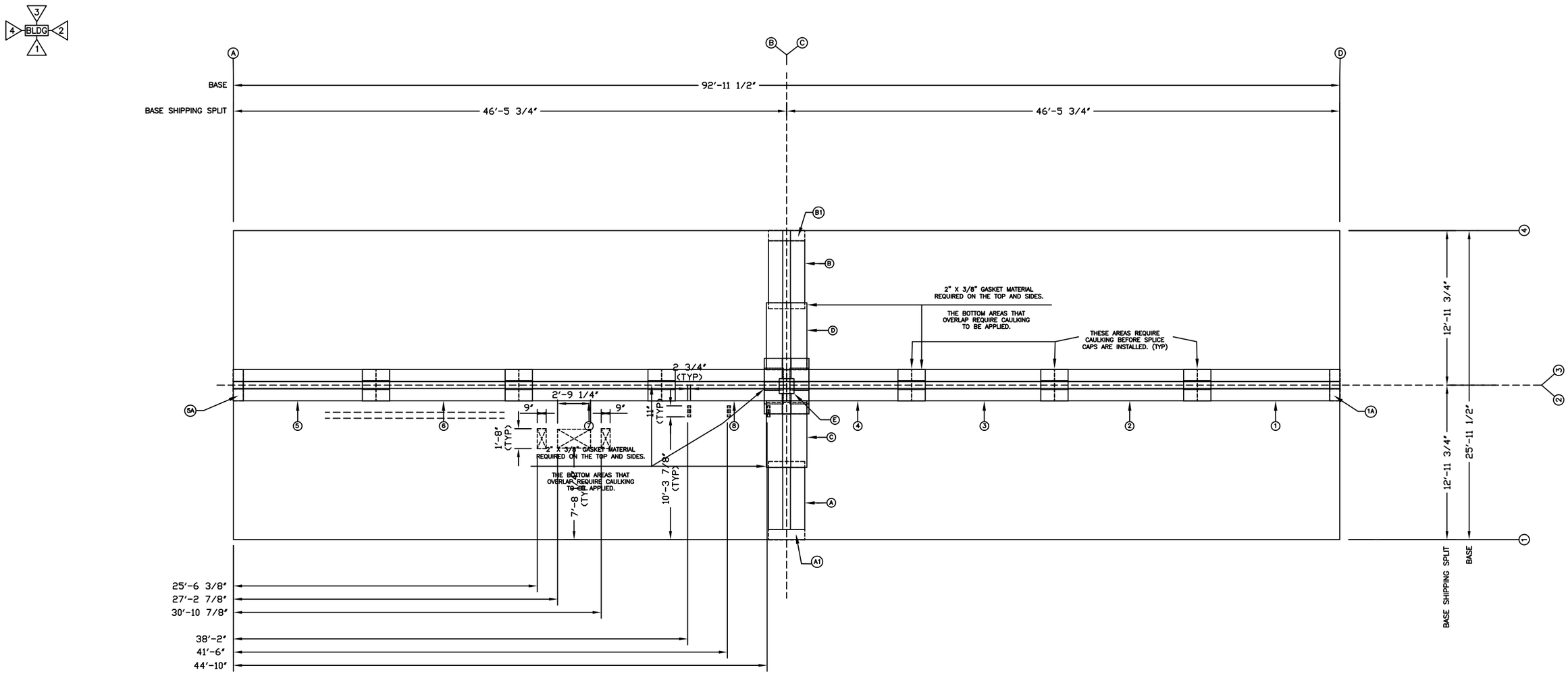
SCALE: FOR REF. ONLY	PROJ. MGR.	DESIGN BY	DWG. NO.	SHEET
1/4"=1'-0"	JS	JWS	R50620-01	3A



ROOF CAP RE-INSTALLATION INSTRUCTIONS:

1- INSTALL ROOF CAPS, (1, 2, 3 AND 4). THESE CAPS ARE BUTTED TOGETHER.
2- INSTALL END CAP-1A, WHICH OVERLAPS ROOF CAP-1.
3- INSTALL ROOF CAPS, (5, 6, 7 AND 8). THESE CAPS ARE BUTTED TOGETHER.
4- INSTALL END CAP-5A, WHICH OVERLAPS ROOF CAP-5.
5- INSTALL SPLICE CAPS WHICH OVERLAPS ROOF CAP-1 THRU 8.
6- INSTALL ROOF CAPS, (A AND B).
7- INSTALL END CAPS-A1 AND B1, WHICH OVERLAPS ROOF CAPS-A AND B.
8- INSTALL ROOF CAPS, (C AND D).
9- INSTALL ROOF CAP, (E)

NOTE-1: ROOF CAPS THAT BUTT TOGETHER ALSO REQUIRE A SPLICE CAP TO BE INSTALLED TO COVER THE JOINED SEAMS.
NOTE-2: ALL ROOF CAPS THAT OVERLAP REQUIRE SILICONE OR GASKET MATERIAL TO BE USED TO SEAL THE JOINED SURFACE AREA.

FLOOR CUTOUT DIMENSIONS, (DETAIL-2)

NO.	REVISION	DATE	BY	PM	APP
2	AS-BUILT	11/17/23	SV	JS	GC
1C	RE-ISSUED FOR CONSTRUCTION	09/28/22	JWS	JS	DDB
1B	RE-ISSUED FOR CONSTRUCTION	08/11/22	JWS	JS	DDB
1A	RE-ISSUED FOR CONSTRUCTION	05/24/22	JWS	JS	DDB
1	ISSUED FOR CONSTRUCTION	01/20/22	JWS	JS	CG
0A	ISSUED FOR APPROVAL	11/12/21	JWS	JS	WG

NOTE: "THIS DRAWING CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION OF POINT EIGHT POWER INC., AND IS LOANED IN CONFIDENCE WITH THE UNDERSTANDING THAT IT WILL NOT BE REPRODUCED NOR USED IN ANY MANNER WHATSOEVER DETRIMENTAL TO THE BEST INTERESTS OF POINT EIGHT POWER INC., AND THAT IT SHALL BE RETURNED ON DEMAND."

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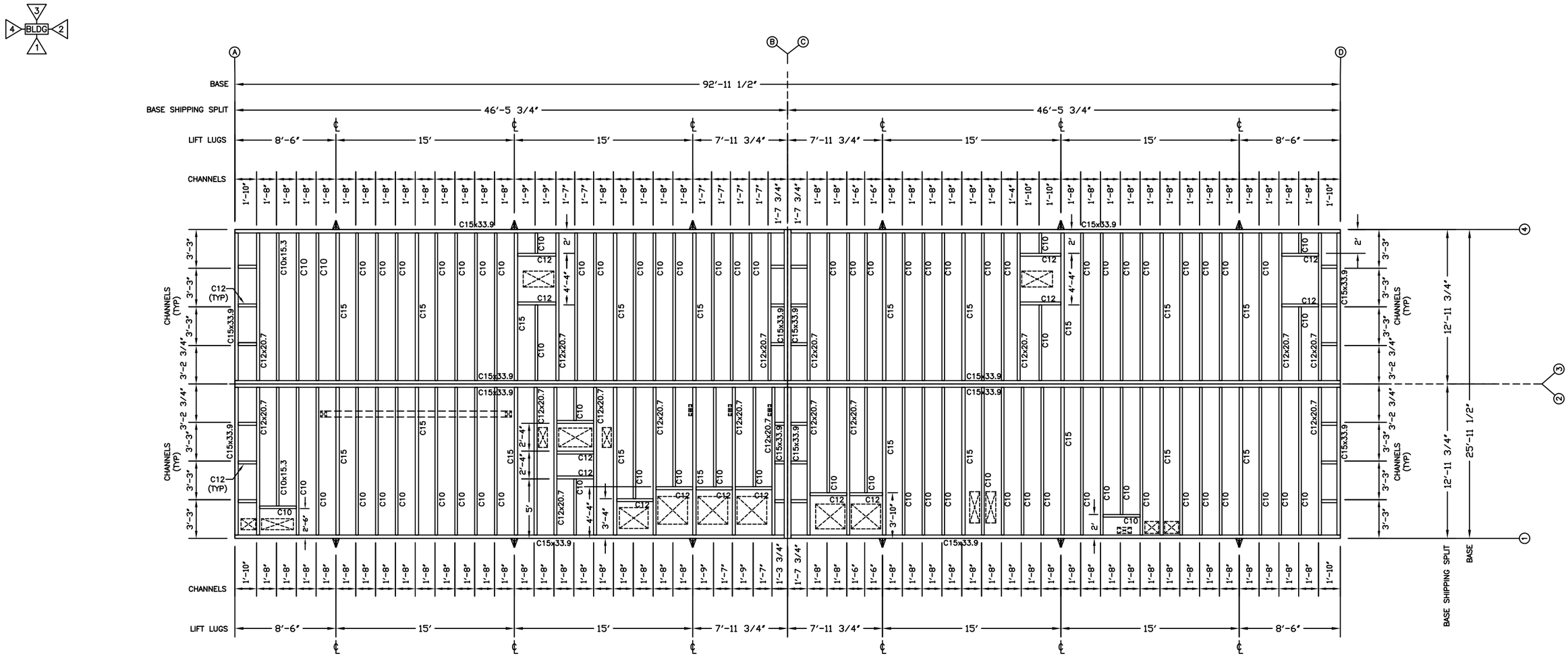
FLOOR CUTOUT DIMENSIONS, (DETAIL-2)
NEW ORLEANS SEWERAGE & WATER BOARD
W21-109-TP STATIC FREQUENCY CONVERTER -1 BLDG.
(93'X26'X12' PCD BUILDING)
P.O. NO.#: W21-109-TP-2030

SCALE: FOR REF. ONLY	PROJ. MGR.	DESIGN BY	DWG. NO.	SHEET
1/4"=1'-0"	JS	JWS	R50620-01	3B

POINT EIGHT POWER, INC. 1503 / 1510 ENGINEERS RD. BELLE CHASSE, LA 70037



NOTE: ALL DIMENSIONS FROM BACK OF CHANNEL. EXCEPT PERIMETER CHANNEL

BASE DETAILS

NOTE: BUILDING EXTERIOR WALLS EXTEND 1/4" PAST BASE ON ALL SIDES.

NO.	REVISION	DATE	BY	PM	APP
2	AS-BUILT	11/17/23	SV	JS	GC
1D	RE-ISSUED FOR CONSTRUCTION	09/28/22	JWS	JS	DDB
1C	RE-ISSUED FOR CONSTRUCTION	08/11/22	JWS	JS	DDB
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0B	RE-ISSUED FOR APPROVAL	11/12/21	JWS	JS	CG
0A	ISSUED FOR APPROVAL	09/15/21	JWS	JS	KS

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BASE DETAILS
NEW ORLEANS SEWERAGE & WATER BOARD
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1/4"=1'-0"	JS	JWS	R50620-01	4

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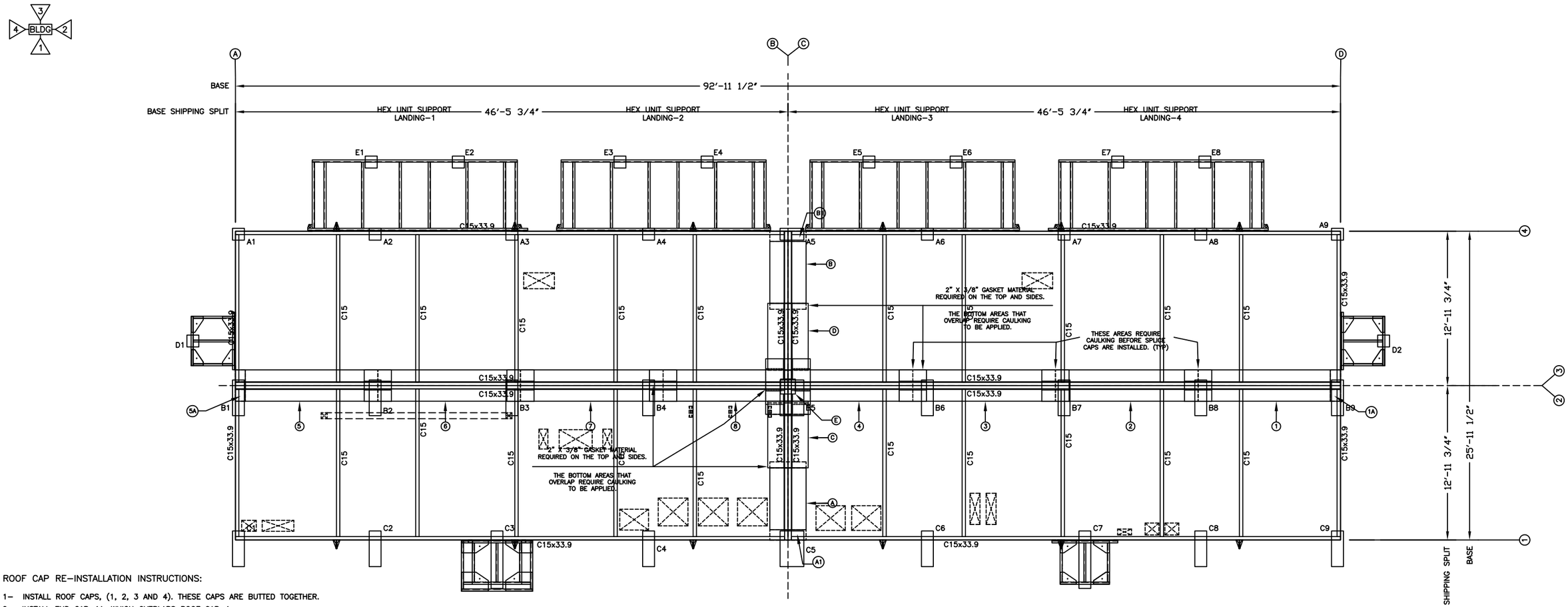
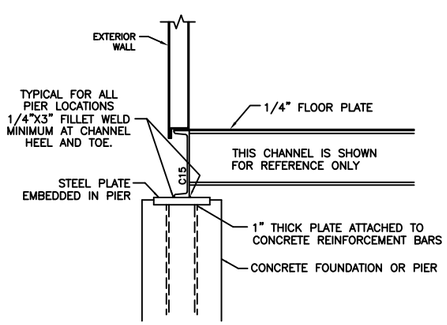


ROOF CAP RE-INSTALLATION INSTRUCTIONS:

1- INSTALL ROOF CAPS, (1, 2, 3 AND 4). THESE CAPS ARE BUTTED TOGETHER.
2- INSTALL END CAP-1A, WHICH OVERLAPS ROOF CAP-1.
3- INSTALL ROOF CAPS, (5, 6, 7 AND 8). THESE CAPS ARE BUTTED TOGETHER.
4- INSTALL END CAP-5A, WHICH OVERLAPS ROOF CAP-5.
5- INSTALL SPLICE CAPS WHICH OVERLAPS ROOF CAP-1 THRU 8.
6- INSTALL ROOF CAPS, (A AND B).
7- INSTALL END CAPS-A1 AND B1, WHICH OVERLAPS ROOF CAPS-A AND B.
8- INSTALL ROOF CAPS, (C AND D).
9- INSTALL ROOF CAP, (E)

NOTE-1: ROOF CAPS THAT BUTT TOGETHER ALSO REQUIRE A SPLICE CAP TO BE INSTALLED TO COVER THE JOINED SEAMS.
NOTE-2: ALL ROOF CAPS THAT OVERLAP REQUIRE SILICONE OR GASKET MATERIAL TO BE USED TO SEAL THE JOINED SURFACE AREA.



SUGGESTED ANCHORING DETAILS

(STRUCTURAL CONTRACTOR TO DETERMINE FINAL SIZE OF PEIRS AND ANCHORING METHOD)

REFERENCE SHEET-4B FOR PIER DIMENSION DETAILS FOR BUILDING AND HVAC UNITS.
REFERENCE SHEET-4C FOR PIER DIMENSION DETAILS FOR AIR-TO-AIR HEX UNITS.

PIER REFERENCE DETAILS

PIERS TO BE PROVIDED BY STRUCTURAL CONTRACTOR, (NIC)

NO.	REVISION	DATE	BY	PM	APP
2	AS-BUILT	11/17/23	SV	JS	GC
1B	RE-ISSUED FOR CONSTRUCTION	09/28/22	JWS	JS	DDB
1A	RE-ISSUED FOR CONSTRUCTION	05/24/22	JWS	JS	DDB
1	ISSUED FOR CONSTRUCTION	01/20/22	JWS	JS	CG
0B	RE-ISSUED FOR APPROVAL	11/12/21	JWS	JS	CG
0A	ISSUED FOR APPROVAL	09/15/21	JWS	JS	KS

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PIER REFERENCE DETAILS
NEW ORLEANS SEWERAGE & WATER BOARD
W21-109-TP STATIC FREQUENCY CONVERTER -1 BLDG.
(93'X26'X12' PCD BUILDING)
P.O. NO.#: W21-109-TP-2030

SCALE: FOR REF. ONLY	PROJ. MGR.	DESIGN BY	DWG. NO.	SHEET
1/4"=1'-0"	JS	JWS	R50620-01	4A

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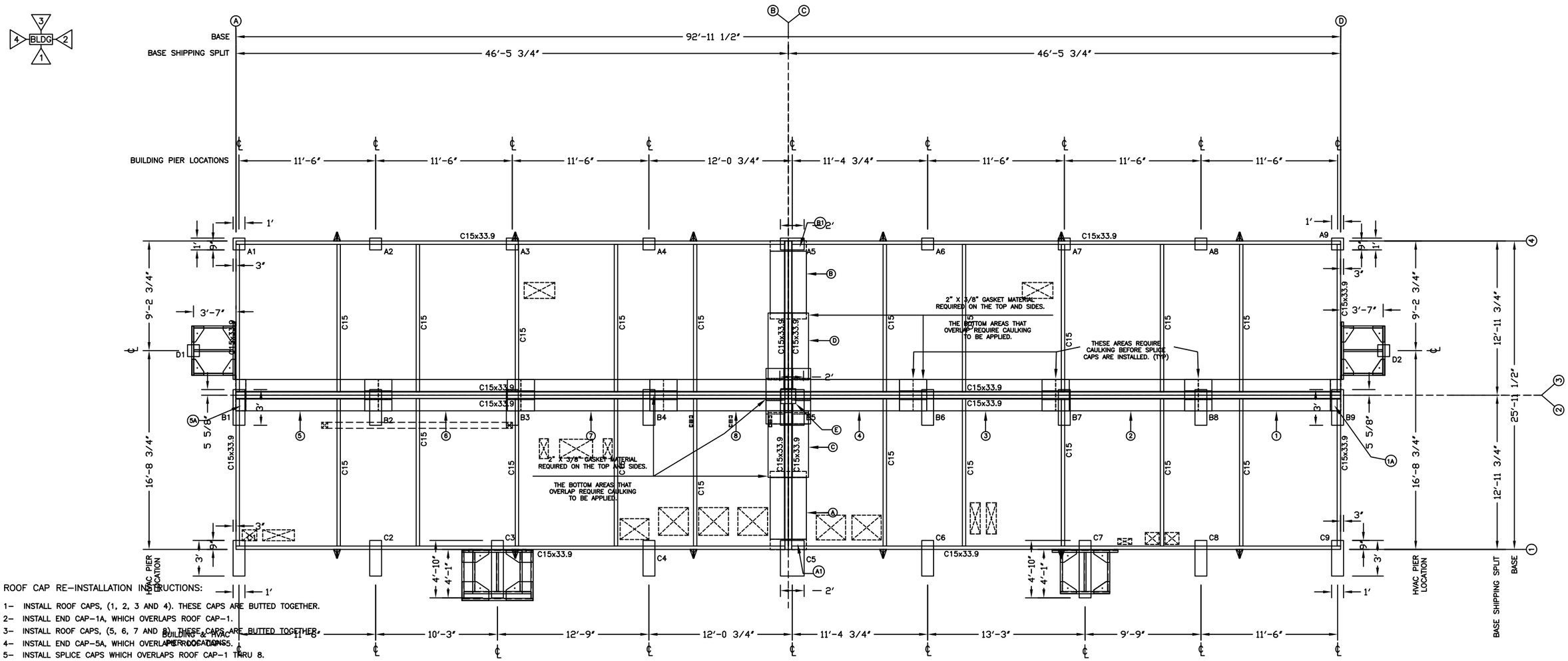

ROOF CAP RE-INSTALLATION INSTRUCTIONS:

1- INSTALL ROOF CAPS, (1, 2, 3 AND 4). THESE CAPS ARE BUTTED TOGETHER.
2- INSTALL END CAP-1A, WHICH OVERLAPS ROOF CAP-1.
3- INSTALL ROOF CAPS, (5, 6, 7 AND 8). THESE CAPS ARE BUTTED TOGETHER.
4- INSTALL END CAP-5A, WHICH OVERLAPS ROOF CAP-5.
5- INSTALL SPLICE CAPS WHICH OVERLAPS ROOF CAP-1 THRU 8.
6- INSTALL ROOF CAPS, (A AND B).
7- INSTALL END CAPS-A1 AND B1, WHICH OVERLAPS ROOF CAPS-A AND B.
8- INSTALL ROOF CAPS, (C AND D).
9- INSTALL ROOF CAP, (E)

NOTE-1: ROOF CAPS THAT BUTT TOGETHER ALSO REQUIRE A SPLICE CAP TO BE INSTALLED TO COVER THE JOINED SEAMS.
NOTE-2: ALL ROOF CAPS THAT OVERLAP REQUIRE SILICONE OR GASKET MATERIAL TO BE USED TO SEAL THE JOINED SURFACE AREA.

NOTE: REFERENCE HVAC SUPPORT LANDING DETAILS ON SHEET-5F

PIER DIMENSION DETAILS
(BUILDING AND HVAC SUPPORT LOCATIONS)

NO.	REVISION	DATE	BY	PM	APP
2	AS-BUILT	11/17/23	SV	JS	GC
1B	RE-ISSUED FOR CONSTRUCTION	09/28/22	JWS	JS	DDB
1A	RE-ISSUED FOR CONSTRUCTION	05/24/22	JWS	JS	DDB
1	ISSUED FOR CONSTRUCTION	01/20/22	JWS	JS	CG
0A	ISSUED FOR APPROVAL	11/12/21	JWS	JS	WG

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PIER DIMENSION DETAILS, (BLD & HVAC SUPPORT LOCATIONS)
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(93'X26'X12' PCD BUILDING)
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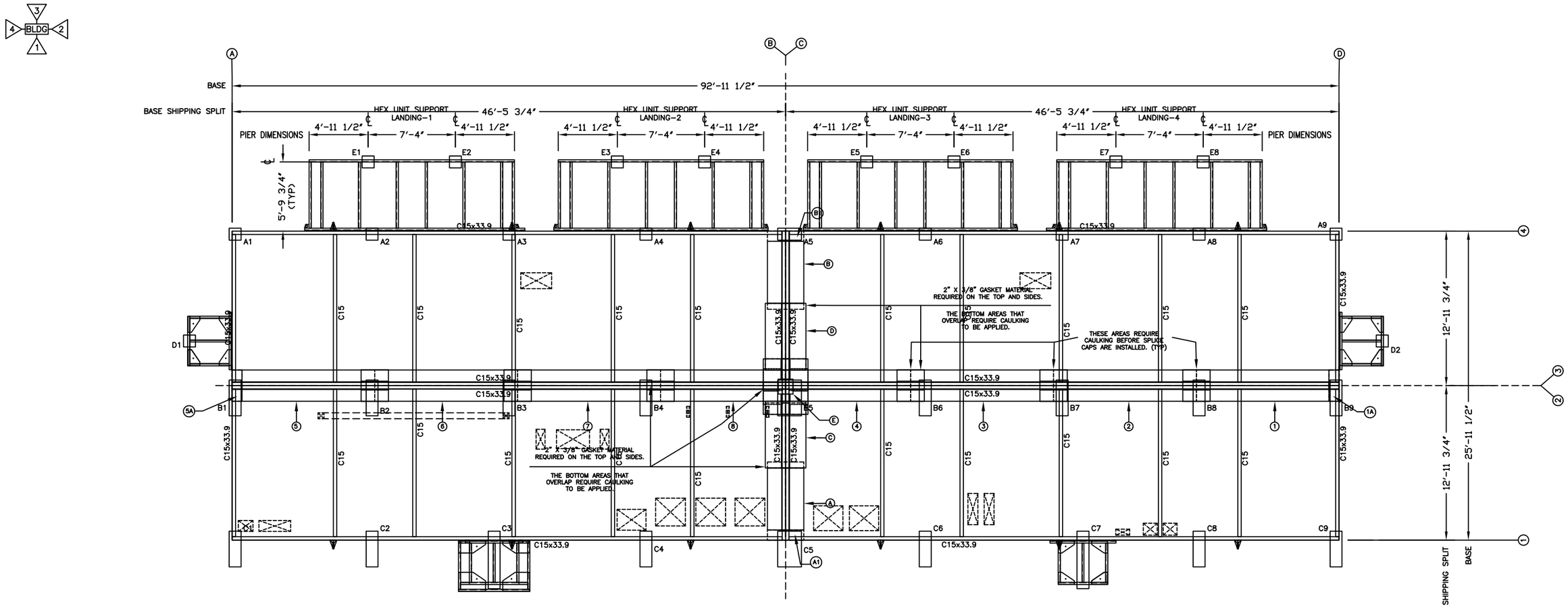
SCALE: FOR REF. ONLY	PROJ. MGR.	DESIGN BY	DWG. NO.	SHEET
1/4"=1'-0"	JS	JWS	R50620-01	4B



NOTE: REFERENCE HVAC SUPPORT LANDING DETAILS ON SHEET-5F AND HEX UNIT SUPPORT LANDING DETAILS ON SHEET-5G

ROOF CAP RE-INSTALLATION INSTRUCTIONS:

1- INSTALL ROOF CAPS, (1, 2, 3 AND 4). THESE CAPS ARE BUTTED TOGETHER.
2- INSTALL END CAP-1A, WHICH OVERLAPS ROOF CAP-1.
3- INSTALL ROOF CAPS, (5, 6, 7 AND 8). THESE CAPS ARE BUTTED TOGETHER.
4- INSTALL END CAP-5A, WHICH OVERLAPS ROOF CAP-5.
5- INSTALL SPLICE CAPS WHICH OVERLAPS ROOF CAP-1 THRU 8.
6- INSTALL ROOF CAPS, (A AND B).
7- INSTALL END CAPS-A1 AND B1, WHICH OVERLAPS ROOF CAPS-A AND B.
8- INSTALL ROOF CAPS, (C AND D).
9- INSTALL ROOF CAP, (E)

NOTE-1: ROOF CAPS THAT BUTT TOGETHER ALSO REQUIRE A SPLICE CAP TO BE INSTALLED TO COVER THE JOINED SEAMS.
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PIER DIMENSION DETAILS (HEX UNIT SUPPORT LOCATIONS)

NO.	REVISION	DATE	BY	PM	APP
2	AS-BUILT	11/17/23	SV	JS	GC
1B	RE-ISSUED FOR CONSTRUCTION	09/28/22	JWS	JS	DDB
1A	RE-ISSUED FOR CONSTRUCTION	05/24/22	JWS	JS	DDB
1	ISSUED FOR CONSTRUCTION	01/20/22	JWS	JS	CG
0A	ISSUED FOR APPROVAL	11/12/21	JWS	JS	WG

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PIER DIMENSION DETAILS, (HEX UNIT SUPPORT LOCATIONS)
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SCALE: FOR REF. ONLY	PROJ. MGR.	DESIGN BY	DWG. NO.	SHEET
1/4"=1'-0"	JS	JWS	R50620-01	4C

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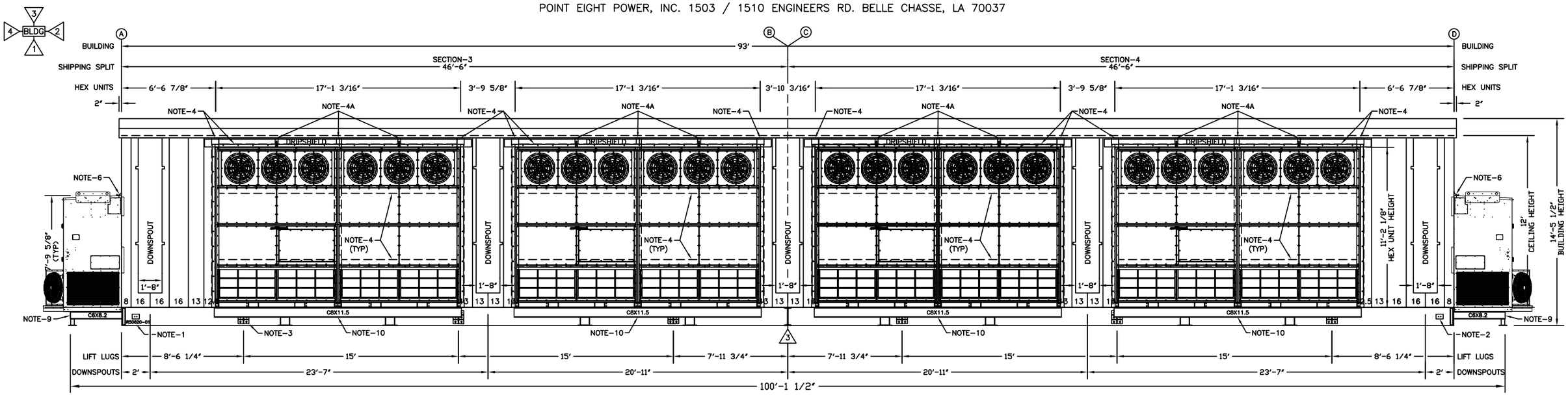
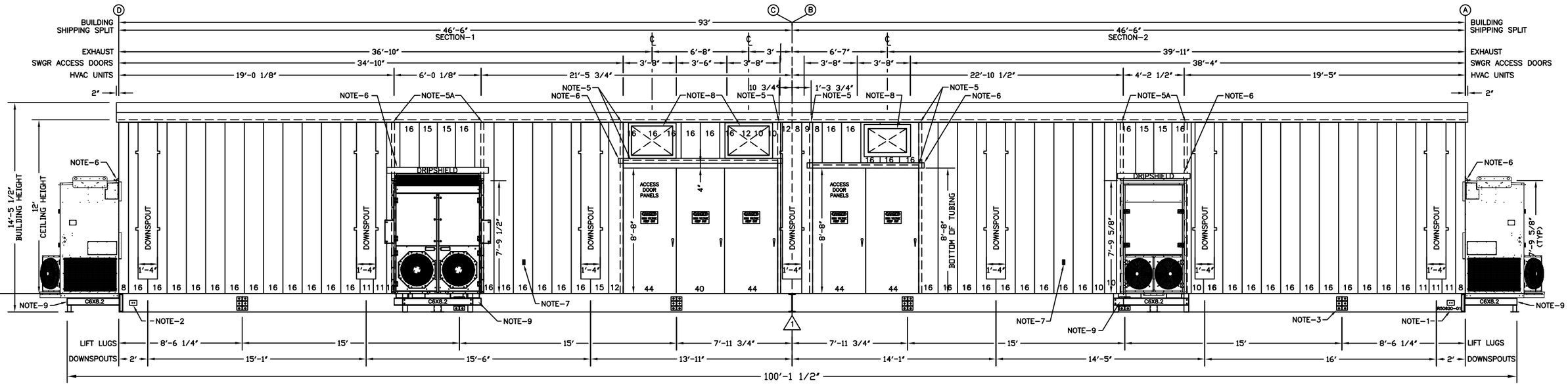
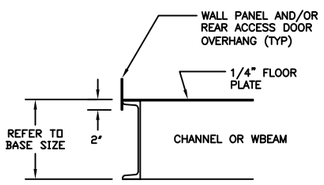




ELEVATION VIEWS (1 & 3)



WALL PANEL OVERHANG DETAIL

N.T.S.

NOTE:
1- PROJECT ID NUMBER: R50620-01, (WELDED ON BASE CHANNEL).
2- NEMA-2 STAINLESS STEEL GROUND PAD, (TYP-4 LOCATIONS).
3- REMOVABLE LIFTING LUG 15B (ALL LIFT LUGS TYP).
4- 6"X4"X3/8" TUBE SUPPORTS (BETWEEN CONVERTERS AND HEX UNITS).
4A-3"X3"X1/4" TUBE SUPPORTS.
5- 2 1/2"X2 1/2"X1/4" TUBE SUPPORTS FOR REAR SWGR ACCESS DOORS.
5A-12GA C-CHANNEL SUPPORTS FOR HVAC UNITS, (QTY-2 FOR EACH UNIT).
6- DRIPSHIELD ABOVE ALL HVAC UNITS AND REAR SWGR ACCESS DOORS.
7- EXTERIOR GFI RECEPTACLE.
8- ARC-RES. SWGR EXHAUST LOCATION.
9- HVAC SUPPORT STAND, REF. SUPPORT DETAILS ON SHEET-5F.
10-AIR-AIR HEX UNIT SUPPORT STAND, REF. DETAIL-2 ON SHEET-5F.
11-FOR PANEL STEEL REQUIREMENTS, REFERENCE PCD CONSTRUCTION DETAILS ON THE BOM AND STRUCTURAL CALCS.

NO.	REVISION	DATE	BY	PM	APP
2	AS-BUILT	11/17/23	SV	JS	GC
1B	RE-ISSUED FOR CONSTRUCTION	09/28/22	JWS	JS	DDB
1A	RE-ISSUED FOR CONSTRUCTION	05/24/22	JWS	JS	DDB
1	ISSUED FOR CONSTRUCTION	01/20/22	JWS	JS	CG
0B	RE-ISSUED FOR APPROVAL	11/12/21	JWS	JS	CG
0A	ISSUED FOR APPROVAL	09/15/21	JWS	JS	KS

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ELEVATION VIEWS (1 & 3)
NEW ORLEANS SEWERAGE & WATER BOARD
W21-109-TP STATIC FREQUENCY CONVERTER -1 BLDG.
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P.O. NO.#: W21-109-TP-2030

SCALE: FOR REF. ONLY	PROJ. MGR.	DESIGN BY	DWG. NO.	SHEET
5/16"=1'-0"	JS	JWS	R50620-01	5

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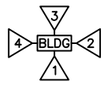

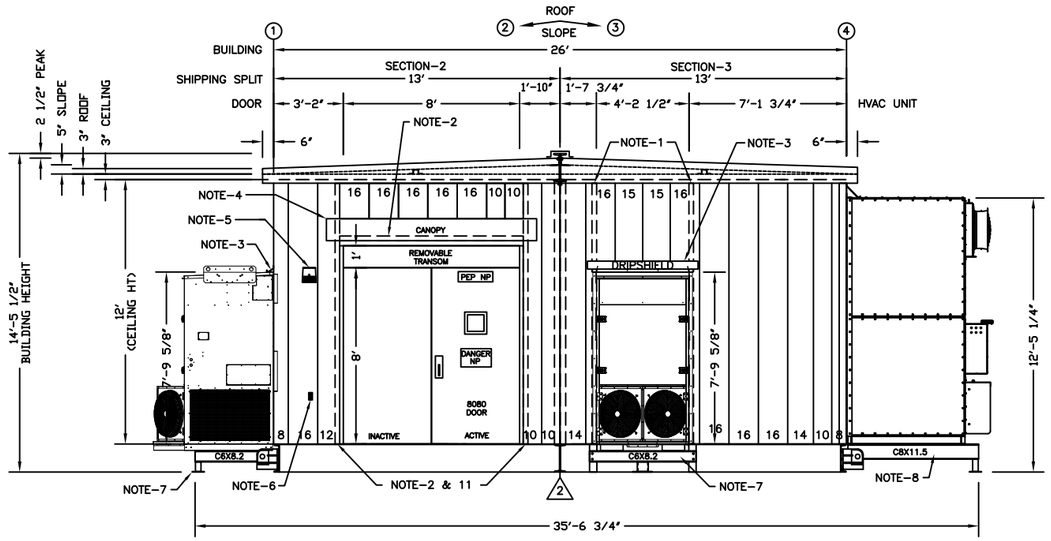

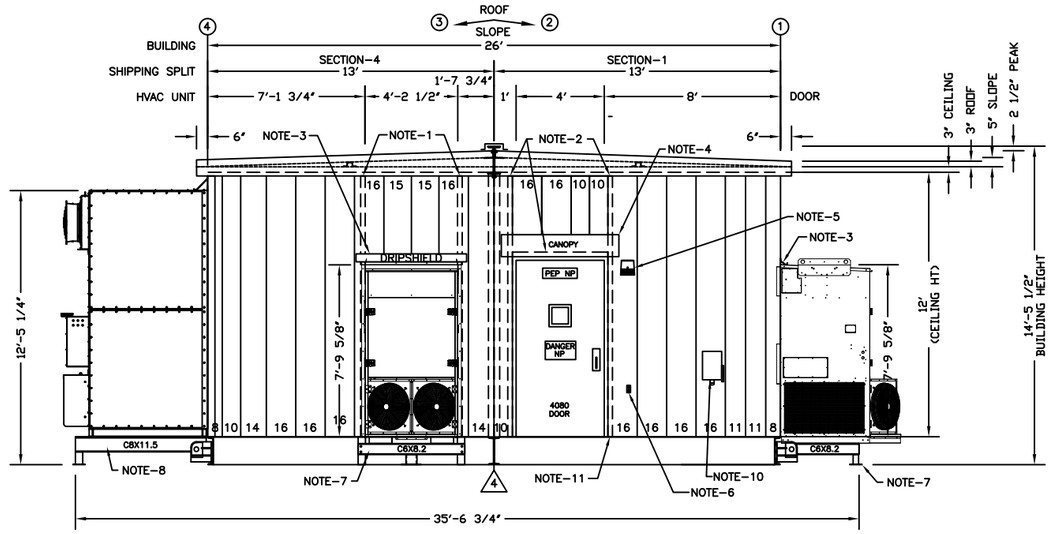

ELEVATION VIEWS (2 & 4)

NOTE:
1- 2 1/2"X2 1/2"X1/4" TUBE SUPPORTS FOR MOUNTING HVAC UNITS, (QTY-2 EACH).
2- 2 1/2"X2 1/2"X1/4" TUBE SUPPORTS (TOP AND SIDES) FOR MOUNTING 4080 DOOR, AND 8080 DOOR.
3- DRIPSHIELD ABOVE ALL HVAC UNITS.
4- 1/4" BACKER PLATES ABOVE ALL PERSONNEL DOORS FOR INSTALLATION OF CANOPY.
~~5- EXTERIOR WALL MOUNTED LIGHT.~~
6- EXTERIOR GFI RECEPTACLE.
7- HVAC SUPPORT STAND, REF. DETAIL-1 ON SHEET-5F.
8- AIR-AIR HEX UNIT SUPPORT STAND, REF. DETAIL-2 ON SHEET-5G.
9- FOR PANEL STEEL REQUIREMENTS, REFERENCE PCD CONSTRUCTION DETAILS ON BOM AND STRUCTURAL CALCS.
10-EXTERIOR WELDING RECEPTACLE.
11-1/4" WELD ALL AROUND BOTTOM OF DOOR TUBING TO FLOOR PLATE AND ALL AROUND TOP HEADER ABOVE DOOR, (TYP FOR BOTH PERSONNEL DOORS).

NO.	REVISION	DATE	BY	PM	APP
2	AS-BUILT	11/17/23	SV	JS	GC
1	ISSUED FOR CONSTRUCTION	01/20/22	JWS	JS	CG
0A	RE-ISSUED FOR APPROVAL	11/12/21	JWS	JS	CG
0	ISSUED FOR APPROVAL	09/15/21	JWS	JS	KS

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ELEVATION VIEWS (2 & 4)
NEW ORLEANS SEWERAGE & WATER BOARD
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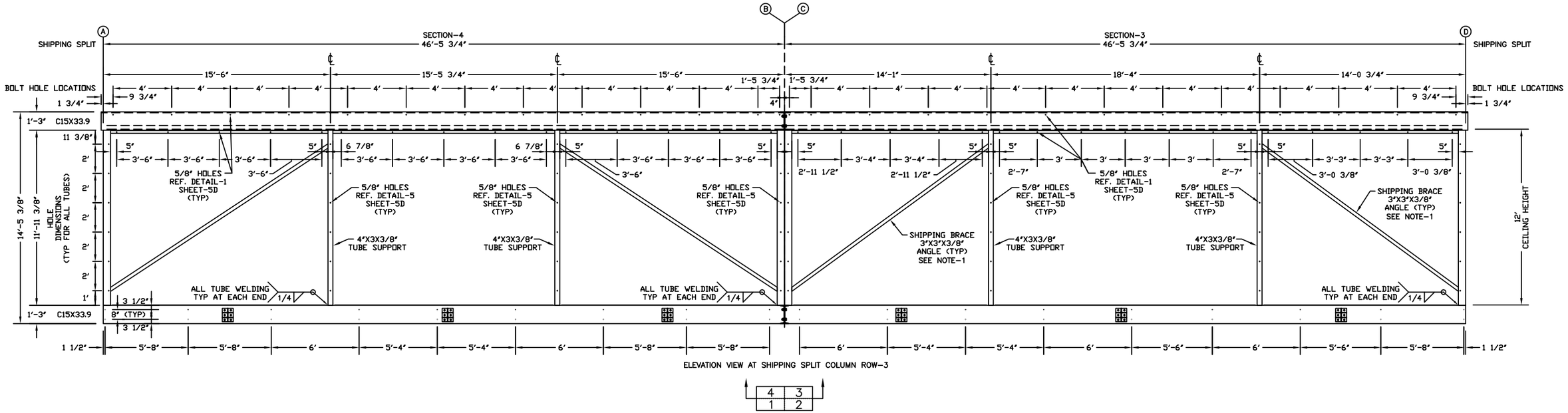
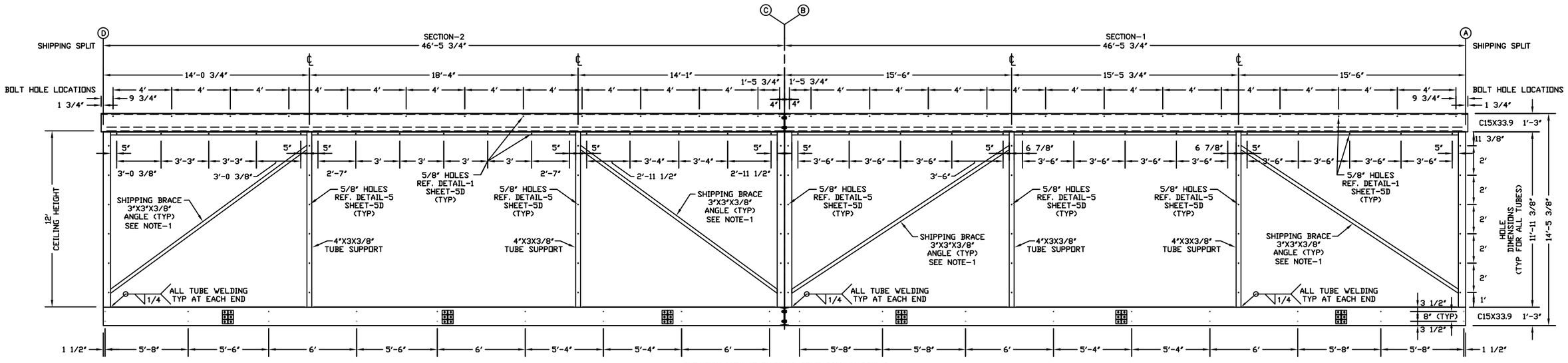
P.O. NO.#: W21-109-TP-2030

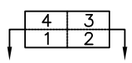
SCALE: FOR REF. ONLY	PROJ. MGR.	DESIGN BY	DWG. NO.	SHEET
5/16"=1'-0"	JS	JWS	R50620-01	5A



ELEVATION VIEW AT SHIPPING SPLIT COLUMN ROW-3



ELEVATION VIEW AT SHIPPING SPLIT COLUMN ROW-2



SHIPPING SPLIT DETAILS-1

NOTE: ALL SHIPPING BRACES ARE TO BE INSTALLED ON BUILDING INTERIOR SIDE OF TUBE SUPPORTS.

NO.	REVISION	DATE	BY	PM	APP
2	AS-BUILT	11/17/23	SV	JS	GC
1	ISSUED FOR CONSTRUCTION	01/20/22	JWS	JS	CG
0A	ISSUED FOR APPROVAL	11/12/21	JWS	JS	CG

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SHIPPING SPLIT DETAILS-1
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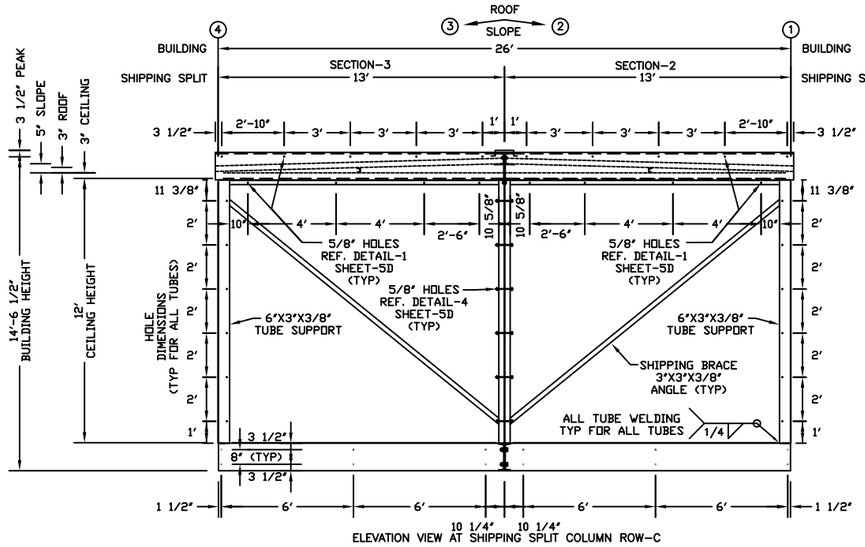
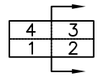
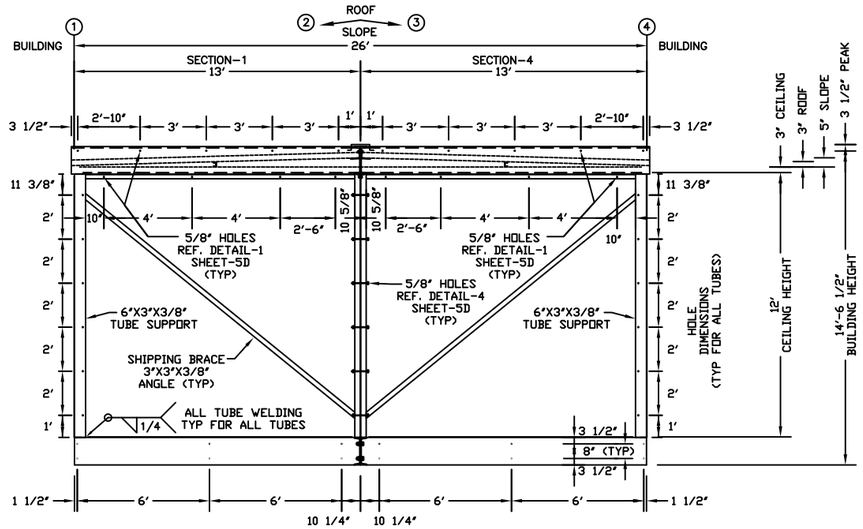
SCALE: FOR REF. ONLY	PROJ. MGR.	DESIGN BY	DWG. NO.	SHEET
5/16"=1'-0"	JS	JWS	R50620-01	5B

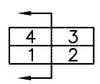


ELEVATION VIEW AT SHIPPING SPLIT COLUMN ROW-C





ELEVATION VIEW AT SHIPPING SPLIT AT COLUMN ROW-B



SHIPPING SPLIT DETAILS-2

NOTE: ALL SHIPPING BRACES ARE TO BE INSTALLED ON BUILDING INTERIOR SIDE OF TUBE SUPPORTS.

NO.	REVISION	DATE	BY	PM	APP
2	AS-BUILT	11/17/23	SV	JS	GC
1	ISSUED FOR CONSTRUCTION	01/20/22	JWS	JS	CG
0A	ISSUED FOR APPROVAL	11/12/21	JWS	JS	CG

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SHIPPING SPLIT DETAILS-2
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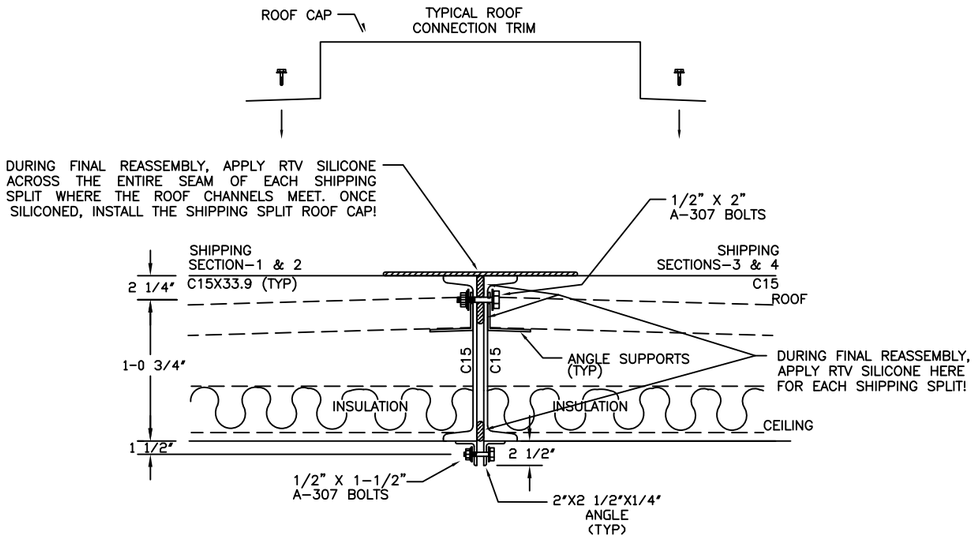
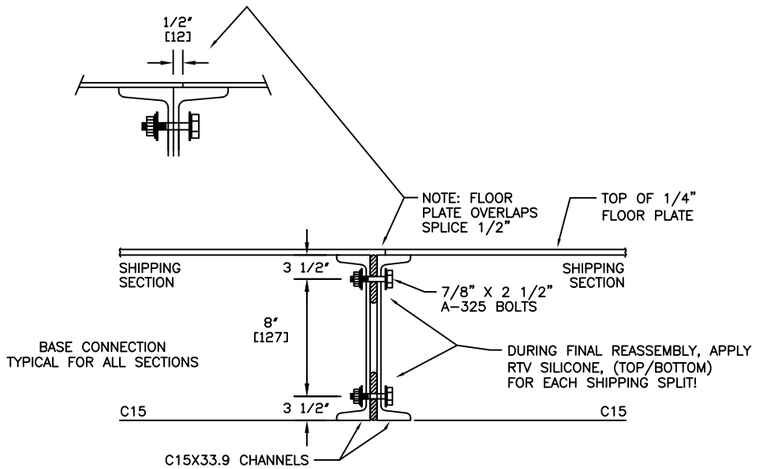
SCALE: FOR REF. ONLY	PROJ. MGR.	DESIGN BY	DWG. NO.	SHEET
5/16"=1'-0"	JS	JWS	R50620-01	5C



DETAIL-1

N.T.S.

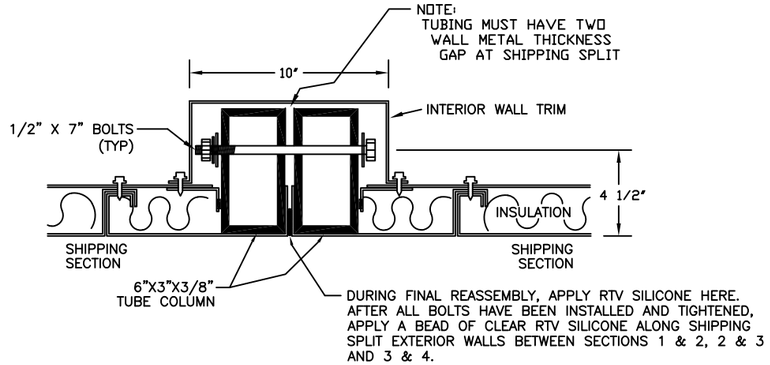
(REF. DWG-5B & 5C)



DETAIL-2

N.T.S.

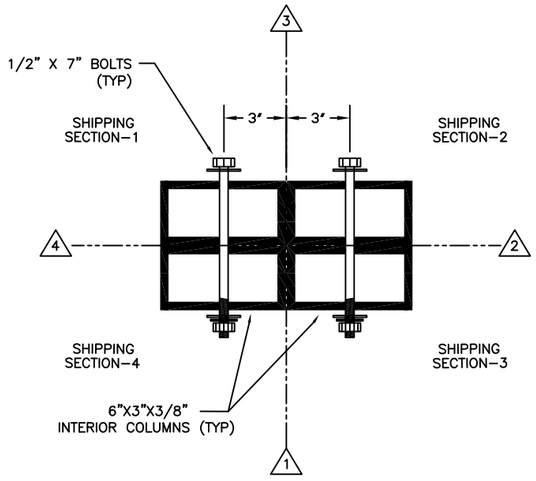
(REF. DWG-5B & 5C)



DETAIL-3

N.T.S.

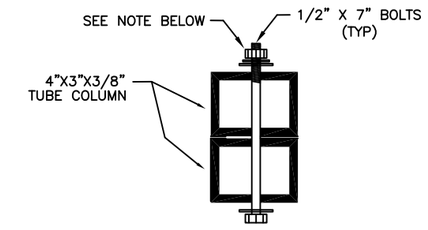
(REF. DWG-5B & 5C)



DETAIL-4

N.T.S.

(REF. DWG-5B & 5C)

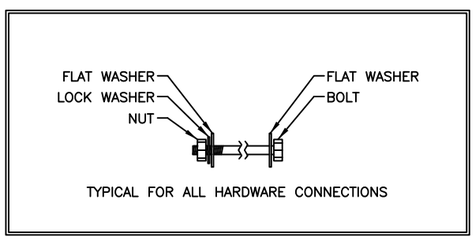


DETAIL-5

N.T.S.

(REF. DWG-5B & 5C)

NOTE: THE FIRST FOUR NUTS FROM THE BOTTOM ARE TO BE WELDED ON THE BACKSIDE OF TUBING BY 60HZ INDUCTOR CABINET ONLY. SEE SHEET-2 FOR TUBING LOCATION.



TYPICAL FOR ALL HARDWARE CONNECTIONS

BUILDING RE-ASSEMBLY AND CAULKING DETAILS

NO.	REVISION	DATE	BY	PM	APP
2	AS-BUILT	11/17/23	SV	JS	GC
1B	RE-ISSUED FOR CONSTRUCTION	09/28/22	JWS	JS	CG
1	ISSUED FOR CONSTRUCTION	01/20/22	JWS	JS	CG
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0A	ISSUED FOR APPROVAL	09/15/21	JWS	JS	KS

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BUILDING RE-ASSEMBLY AND CAULKING DETAILS
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SCALE: FOR REF. ONLY	PROJ. MGR.	DESIGN BY	DWG. NO.	SHEET
N.T.S.	JS	JWS	R50620-01	5D

FIELD INSTRUCTIONS FOR BUILDING REASSEMBLY
FOR (4) SECTION SHIPPING SPLIT BUILDINGS

BUILDING SECTION REASSEMBLY ORDER:

SECTION: 4–3–1–2

STEP–1 REMOVE ALL CRATING MATERIAL FROM SHIPPING SECTION, (REFERENCE BUILDING SECTION REASSEMBLY ORDER AND SEE NOTE–1).

STEP–2 SET BUILDING SECTION IN PLACE, ENSURING THAT THIS BUILDING SECTION IS LEVEL AND SQUARE. ONCE VERIFIED, ANCHOR BUILDING SECTION TO THE CONCRETE, (SEE NOTE–2).

STEP–3 ONCE STEP–2 IS COMPLETE, THE LIFTING LUGS ARE TO BE REMOVED FROM THE SHIPPING SPLIT SIDE OF THE BUILDING, (SEE NOTE–3).

STEP–4 REMOVE ALL CRATING MATERIAL FROM THE NEXT SHIPPING SECTION, (REFERENCE BUILDING SECTION REASSEMBLY ORDER AND SEE NOTE–1).

STEP–5 BEFORE SETTING THE NEXT SECTION, GREASE THE TOP OF ALL STEEL PLATES EMBEDDED IN THE CONCRETE. THIS WILL HELP REDUCE THE FRICTION WHEN PULLING THE BUILDING IN PLACE. ONCE COMPLETE, SET THE NEXT BUILDING SECTION, LEAVING ENOUGH SPACE BETWEEN THE TWO BUILDINGS TO REMOVE THE LIFTING LUGS BETWEEN THE SHIPPING SPLIT. ALL REMAINING LIFTING LUGS CAN BE REMOVED AT THIS TIME, (SEE NOTE–3).

STEP–6 PRIOR TO PULLING THE BUILDING SECTIONS TOGETHER, APPLY A DOUBLE BEAD OF RTV SILICONE ON ALL FLAT SURFACES OF SPLICE. (REFERENCE SHEET–5D FOR ADDITIONAL INSTRUCTIONS).

STEP–7 USING A RATCHET TYPE COME–A–LONG AT EACH END OF BUILDING, SLOWLY PULL BUILDING SECTION TOWARD THE ADJACENT BUILDING SECTION UNTIL BOTH SECTIONS ARE TIGHTLY AGAINST EACH OTHER, (SEE NOTE–4).

STEP–8 AFTER THE BUILDING SECTIONS HAVE BEEN PULLED TOGETHER, VERIFY THAT BOTH SECTIONS ARE PROPERLY LEVELED & ALIGNED.

STEP–9 WHEN COMPLETE, THE SHIPPING SPLIT HARDWARE, (REF. BUILDING RE–ASSEMBLY DWG FOR HARDWARE DETAILS) IS TO BE INSTALLED IN THE FOLLOWING ORDER:
A) BOLT THE BASE TOGETHER USING 7/8" A–325 BOLTS, BUT DO NOT TIGHTEN BOLTS UNTIL ALL SHIPPING SPLIT HARDWARE HAS BEEN INSTALLED.
B) BOLT THE SIDES AND PERMANENT TUBE SUPPORTS TOGETHER FROM INTERIOR USING 1/2" A–307 BOLTS.
C) BOLT THE ROOF SUPPORT TOGETHER FROM INTERIOR AND EXTERIOR USING 1/2" A–307 BOLTS.

STEP–10 ONCE ALL SHIPPING SPLIT HARDWARE HAS BEEN INSTALLED, RE–CHECK THE BUILDING ASSEMBLY SECTIONS FOR LEVEL AND ALIGNMENT. IF ISSUES ARE NOTED, MAKE NECESSARY CORRECTIONS AS REQUIRED.

STEP–11 TIGHTEN ALL SHIPPING SPLIT HARDWARE IN THE FOLLOWING ORDER:
1ST) 7/8" BASE SPLICE BOLTS.
2ND) 1/2" WALL SPLICE AND PERMANENT SUPPORTS BOLTS.
3RD) 1/2" ROOF SUPPORT BOLTS.

STEP–12 ONCE ALL SHIPPING SPLIT HARDWARE HAS BEEN TIGHTENED, THE NEXT BUILDING SECTION CAN BE PREPPED FOR ASSEMBLY BY REPEATING STEPS–1 THROUGH 11.

STEP–13 REPEAT STEPS 1 THRU 11 FOR THE REMAINING SECTION.

STEP–14 ONCE VERIFIED, SHIPPING SPLIT HARDWARE SHOULD BE INSTALLED AND TIGHTENED, APPLY RTV SILICONE TO ALL EXTERIOR SPLICE SEAMS. THE EXTERIOR TRIM AND FLASHING IS NOW READY TO BE INSTALLED. ALSO REFERENCE SHEET–5D FOR ADDITIONAL INSTRUCTIONS.

STEP–15 INSTALL INTERIOR TRIM AROUND INTERIOR COLUMNS, END SPLICE AND CEILING SEAMS WHERE APPLICABLE.

STEP–16 REINSTALL HVAC UNITS, CABLE TRAY, CONDUIT AND WIRING AT ALL JUNCTION BOXES, WHERE APPLICABLE. SEE DRAWINGS 2,5,5A,5F,5G,9.

STEP–17 RE–CHECK THE ENTIRE BUILDING FOR LEVEL AND ALIGNMENT. AT THIS TIME, CHECK ALL DOORS AND SWITCHGEAR BREAKERS FOR CORRECT OPERATION.

STEP–18 ANCHOR BUILDING TO THE CONCRETE FOUNDATION, (SEE NOTE–5).

STEP–19 REMOVE ALL TEMPORARY SHIPPING BRACES.

NOTES:

1: SPECIAL CARE MUST BE TAKEN TO ENSURE THE BUILDING AND ALL EQUIPMENT IS PROPERLY PROTECTED FROM THE WEATHER, I.E. RAIN, ETC...! AND ONLY THE SECTIONS THAT ARE READY TO BE REASSEMBLY SHOULD HAVE CRATING MATERIAL REMOVED. ALL TEMPARARY STEEL BRACES MUST ALSO BE LEFT IN PLACE UNTIL THE BUILDING SECTIONS HAVE BEEN COMPLETELY ASSEMBLED!

2: IT IS EXTREMELY IMPORTANT THAT EACH BUILDING SECTION IS TRULY SQUARE AND LEVEL BEFORE SETTING THE NEXT SECTION IN PLACE. A BUILDING NOT PROPERLY SQUARED OR LEVELED WILL RESULT IN MAJOR ALIGNMENT ISSUES AT HARDWARE INSTALLATION POINTS. SHIMS MAY ALSO BE REQUIRED IF THE BUILDING IS NOT TRULY LEVEL! IF SHIMS ARE USED, THEY SHOULD BE TACK WELDING TO THE STEEL PADS IF POSSIBLE.

3: LIFTING LUG HARDWARE AT THE SHIPPING SPLIT WILL NO LONGER BE NEEDED AND SHOULD NOT BE REINSTALLED; HOWEVER, ONCE BOTH BUILDING SECTIONS HAVE BEEN SET, THE LIFTING LUG HARDWARE CAN BE REINSTALLED ON THE OUTSIDE PERIMITER CHANNELS/BEAMS!

4: COME–A–LONGS SHOULD ONLY BE USED TO PULL THE SHIPPING SPLIT TOGETHER FROM THE BASE ELEVATION ONLY. PULLING FROM ANY OTHER LOCATION ABOVE THE BASE ELEVATION WILL RESULT IN MAJOR DAMAGE TO THE BUILDING! IT IS ALSO IMPORTANT THAT THE PREVIOUSLY INSTALLED SECTION DOES NOT MOVE WHEN PULLING SECTIONS TOGETHER!

5: ANCHORING REQUIREMENTS SHALL BE DETERMINED BY JOB SITE PROJECT ENGINEER. PRIOR TO FINAL ANCHORING OF THE BUILDING TO THE CONCRETE FOUNDATION, ENSURE THAT THE BUILDING IS TRULY SQUARE, LEVEL AND ALL SHIPPING SPLIT HARDWARE HAS BEEN INSTALLED AND TIGHTENED!

OTHER SPECIAL NOTES:

1. CHECK EXISTING FLASHING TO ENSURE NO CRACKS IN THE SEALANT WERE CAUSED BY SHIPPING.
2. CHECK FOR CRACKS IN SEALANT AT ROOF PANELS CAUSED BY SHIPPING.
3. AFTER BUILDING INSTALLATION IS COMPLETE USE RTV SEALANT AT ALL FLASHING AND TRIM.
4. USE RTV SEALANT ON FANS, CONDUITS, ETC...
5. HVAC UNITS, DRIPSHIELDS, AWNINGS, ETC... BEING REINSTALLED MUST BE SEALED WITH RTV SEALANT.
6. REFER TO DRAWING SHEET–5D FOR ADDITIONAL CAULKING DETAIL INSTRUCTIONS.

*** WARNING ***

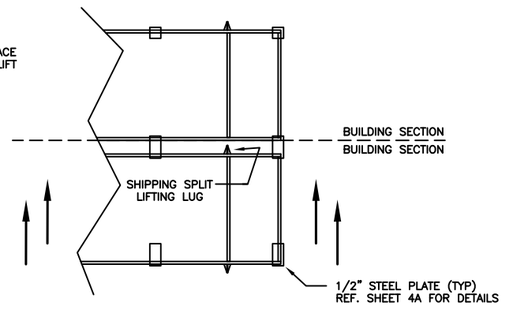
THIS BUILDING IS NOT DESIGNED TO LIFT AS A SINGLE UNIT. IF THIS BUILDING MUST BE MOVED IN THE FUTURE, THE BUILDING MUST BE DISASSEMBLED INTO THE ORIGINAL SHIPPING SPLIT SECTIONS AND ALL TEMPORARY SUPPORTS REINSTALLED.

*** DO NOT LIFT ENTIRE BUILDING AS A SINGLE UNIT !!! ***

SHIPPING SPLIT LIFT LUGS.

WHEN SETTING SECTIONS, ALLOW ENOUGH WORK SPACE BETWEEN THE BUILDING SECTIONS TO REMOVE THE LIFT LUGS BETWEEN THE SHIPPING SPLIT.

COMPLETE REMAINING STEPS AS DESCRIBED WITHIN FIELD INSTALLATION INSTRUCTIONS ABOVE.



EXTENDED SHIPPING SPLIT RECONNECTION DETAILS

N.T.S.
(BY OTHERS)

SEC. 4	SEC. 3
SEC. 1	SEC. 2

PLAN VIEW

NO.	REVISION	DATE	BY	PM	APP
1	ISSUED FOR CONSTRUCTION	01/20/22	JWS	JS	CG
0B	RE–ISSUED FOR APPROVAL	11/12/21	JWS	JS	WG
0A	ISSUED FOR APPROVAL	09/15/21	JWS	JS	KS

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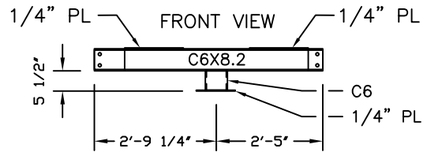
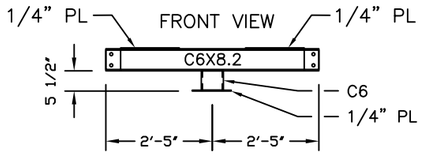
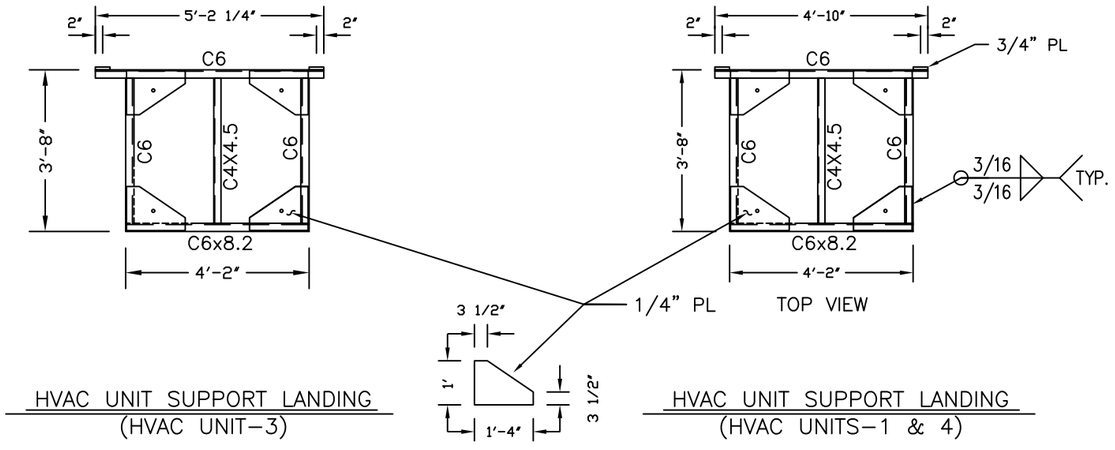
FIELD INSTRUCTIONS FOR BUILDING REASSEMBLY
NEW ORLEANS SEWERAGE & WATER BOARD
W21–109–TP STATIC FREQUENCY CONVERTER –1 BLDG.
<93'X26'X12' PCD BUILDING>
P.O. NO.#: W21–109–TP–2030

SCALE: FOR REF. ONLY	PROJ. MGR.	DESIGN BY	DWG. NO.	SHEET
NONE	JS	JWS	R50620–01	5E







HVAC UNIT SUPPORT LANDING
(HVAC UNIT-3)

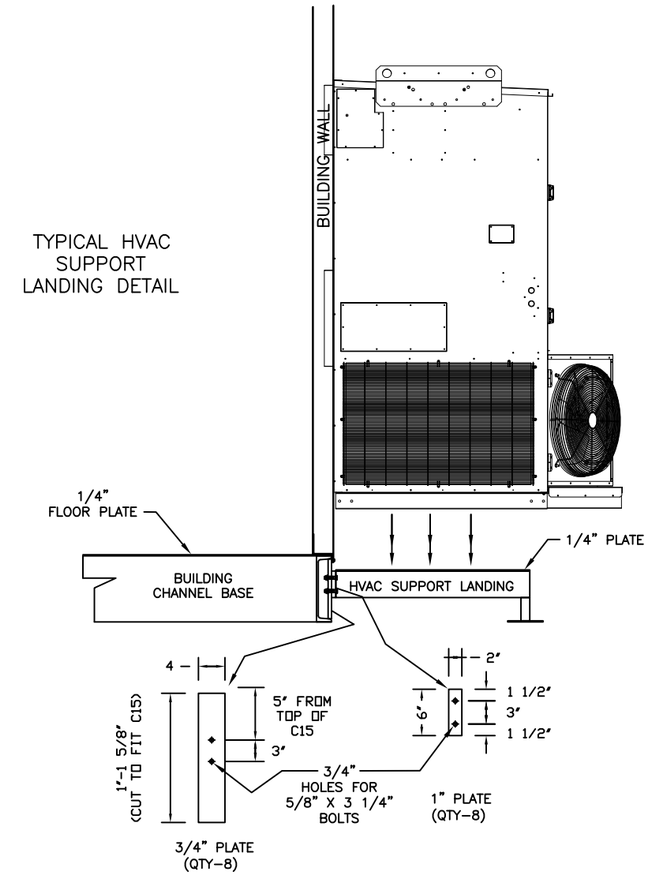
SCALE: N.T.S.
(QTY-1)

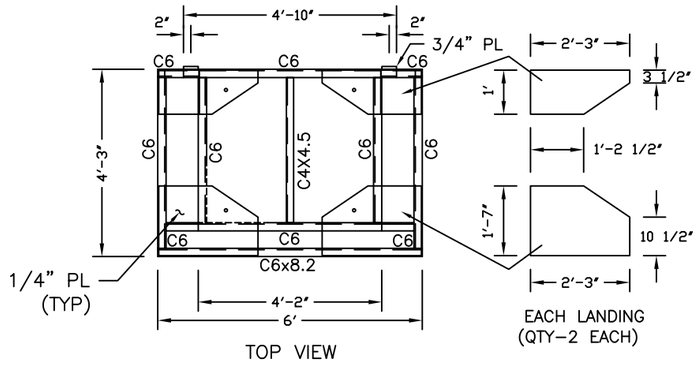
EACH LANDING
(QTY-4)

HVAC UNIT SUPPORT LANDING
(HVAC UNITS-1 & 4)

SCALE: N.T.S.
(QTY-2)

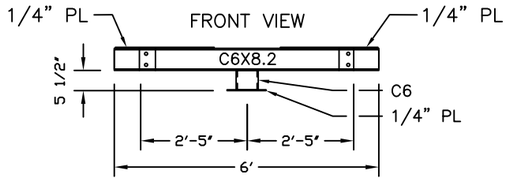
TYPICAL HVAC
SUPPORT
LANDING DETAIL

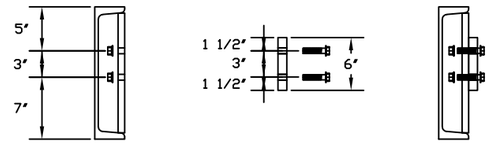




HVAC UNIT SUPPORT LANDING
(HVAC UNIT-2)

SCALE: N.T.S.
(QTY-1)





HVAC UNIT SUPPORT LANDING DETAILS

NOTE: ALL LANDINGS ARE HOT DIPPED GALVANIZED!

NO.	REVISION	DATE	BY	PM	APP
2	AS-BUILT	11/17/23	SV	JS	GC
1B	RE-ISSUED FOR CONSTRUCTION	09/28/22	JWS	JS	DDB
1A	RE-ISSUED FOR CONSTRUCTION	08/11/22	JWS	JS	DDB
1	ISSUED FOR CONSTRUCTION	01/20/22	JWS	JS	CG
0A	ISSUED FOR APPROVAL	11/12/21	JWS	JS	CG

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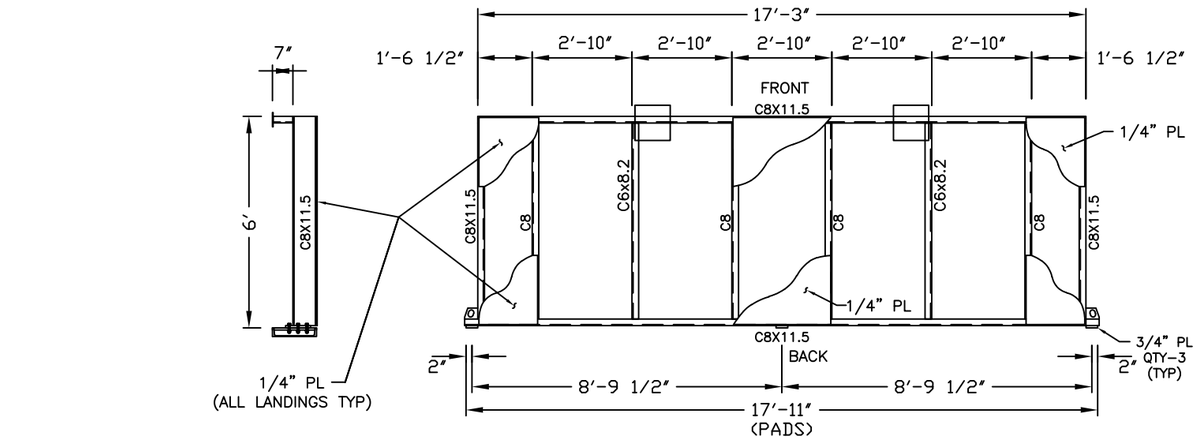
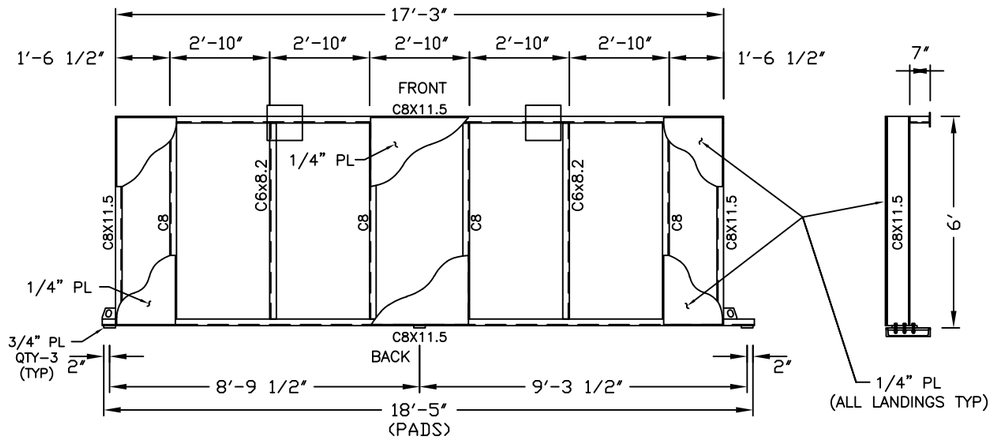
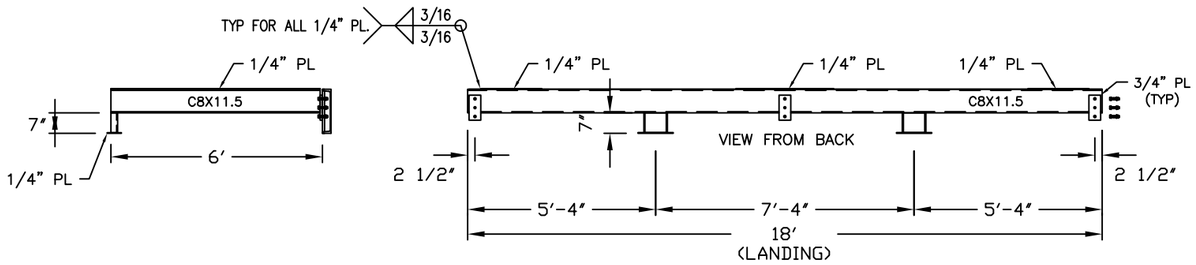
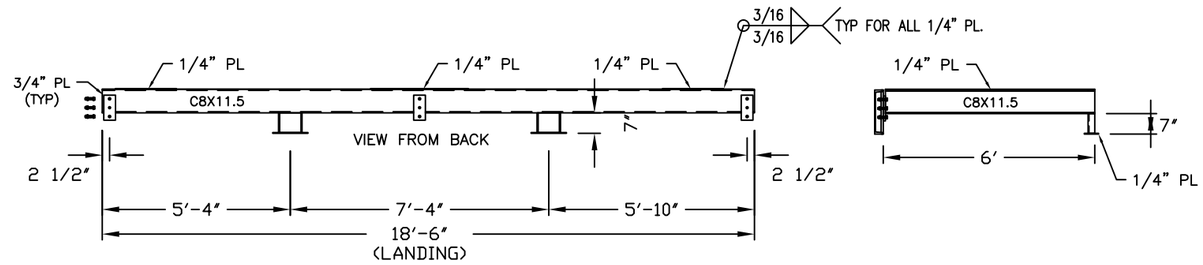
HVAC UNIT SUPPORT LANDING DETAILS
NEW ORLEANS SEWERAGE & WATER BOARD
W21-109-TP STATIC FREQUENCY CONVERTER -1 BLDG.
(93'X26'X12' PCD BUILDING)
P.O. NO.#: W21-109-TP-2030

SCALE: FOR REF. ONLY	PROJ. MGR.	DESIGN BY	DWG. NO.	SHEET
5/16"=1'-0"	JS	JWS	R50620-01	5F



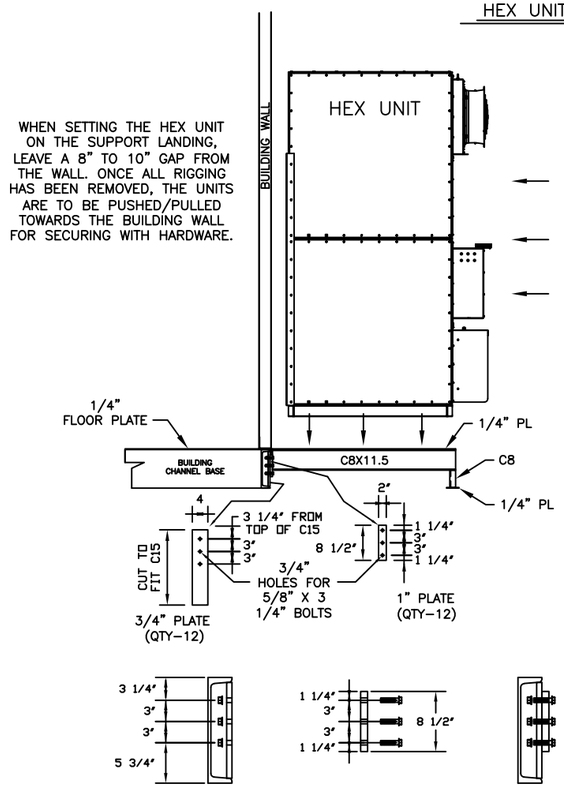






HEX UNIT SUPPORT LANDING–2 AND 3

SCALE: N.T.S.
(QTY–2 AS SHOWN)



HEX UNIT SUPPORT LANDING–1 AND 4

SCALE: N.T.S.
(QTY–1 AS SHOWN, QTY–1 OPPOSITE)

HEX UNIT SUPPORT LANDING DETAILS

NOTE: ALL LANDINGS ARE HOT DIPPED GALVANIZED!

NO.	REVISION	DATE	BY	PM	APP
2	AS-BUILT	11/17/23	SV	JS	GC
1	ISSUED FOR CONSTRUCTION	01/20/22	JWS	JS	CG
A	ISSUED FOR APPROVAL	11/12/21	JWS	JS	CG

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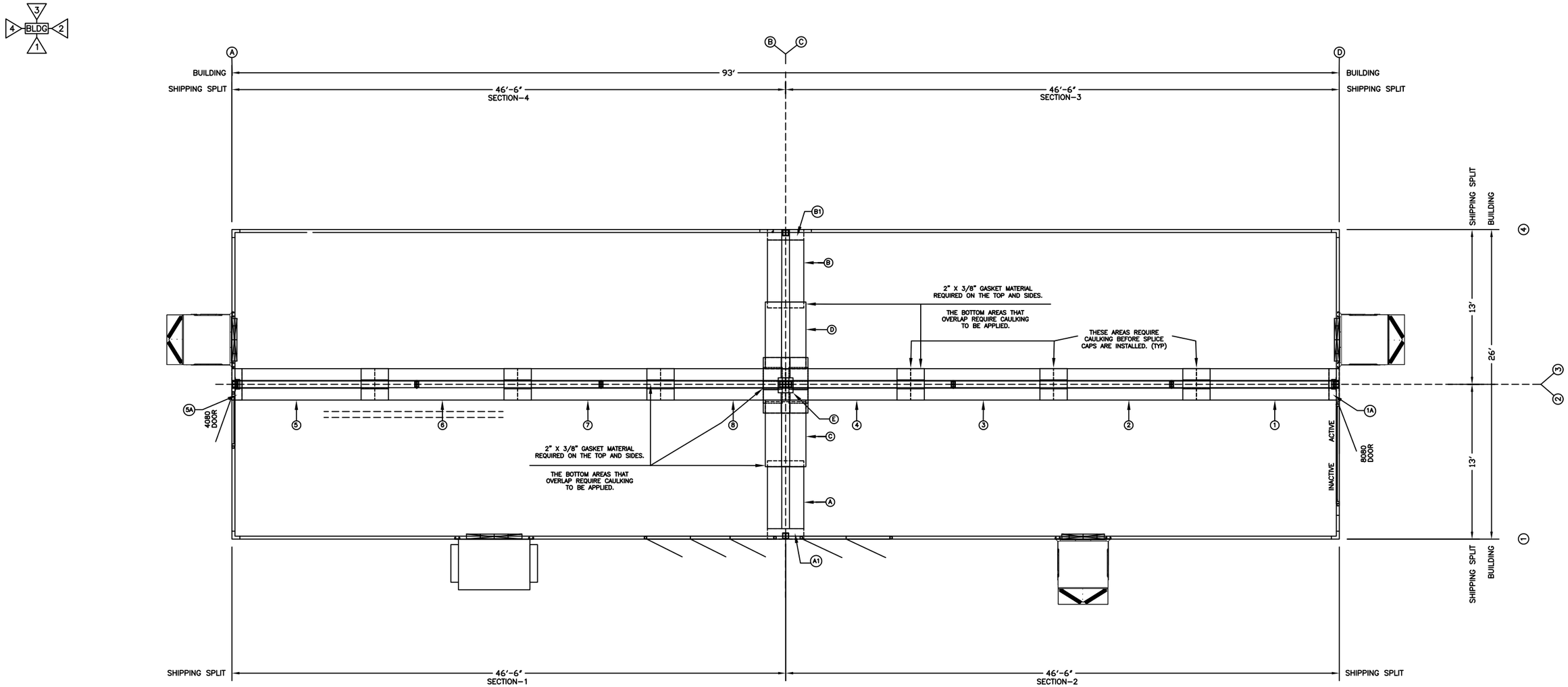
HEX UNIT SUPPORT LANDING DETAILS
NEW ORLEANS SEWERAGE & WATER BOARD
W21-109-TP STATIC FREQUENCY CONVERTER -1 BLDG.
(93'X26'X12' PCD BUILDING)
P.O. NO.#: W21-109-TP-2030

SCALE: FOR REF. ONLY	PROJ. MGR.	DESIGN BY	DWG. NO.	SHEET
1/2"=1'-0"	JS	JWS	R50620-01	5G



ROOF CAP RE-INSTALLATION INSTRUCTIONS:

1- INSTALL ROOF CAPS, (1, 2, 3 AND 4). THESE CAPS ARE BUTTED TOGETHER.
2- INSTALL END CAP-1A, WHICH OVERLAPS ROOF CAP-1.
3- INSTALL ROOF CAPS, (5, 6, 7 AND 8). THESE CAPS ARE BUTTED TOGETHER.
4- INSTALL END CAP-5A, WHICH OVERLAPS ROOF CAP-5.
5- INSTALL SPLICE CAPS WHICH OVERLAPS ROOF CAP-1 THRU 8.
6- INSTALL ROOF CAPS, (A AND B).
7- INSTALL END CAPS-A1 AND B1, WHICH OVERLAPS ROOF CAPS-A AND B.
8- INSTALL ROOF CAPS, (C AND D).
9- INSTALL ROOF CAP, (E)

NOTE-1: ROOF CAPS THAT BUTT TOGETHER ALSO REQUIRE A SPLICE CAP TO BE INSTALLED TO COVER THE JOINED SEAMS.
NOTE-2: ALL ROOF CAPS THAT OVERLAP REQUIRE SILICONE OR GASKET MATERIAL TO BE USED TO SEAL THE JOINED SURFACE AREA.

ROOF CAP RE-ASSEMBLY DETAILS

NO.	REVISION	DATE	BY	PM	APP
2	AS-BUILT	11/17/23	SV	JS	GC
1	ISSUED FOR CONSTRUCTION	06/19/23	JWS	JS	CG

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ROOF CAP RE-ASSEMBLY DETAILS
NEW ORLEANS SEWERAGE & WATER BOARD
W21-109-TP STATIC FREQUENCY CONVERTER -1 BLDG.
(93'X26'X12' PCD BUILDING)
P.O. NO.#: W21-109-TP-2030

SCALE: FOR REF. ONLY	PROJ. MGR.	DESIGN BY	DWG. NO.	SHEET
1/4"=1'-0"	JS	JWS	R50620-01	5H

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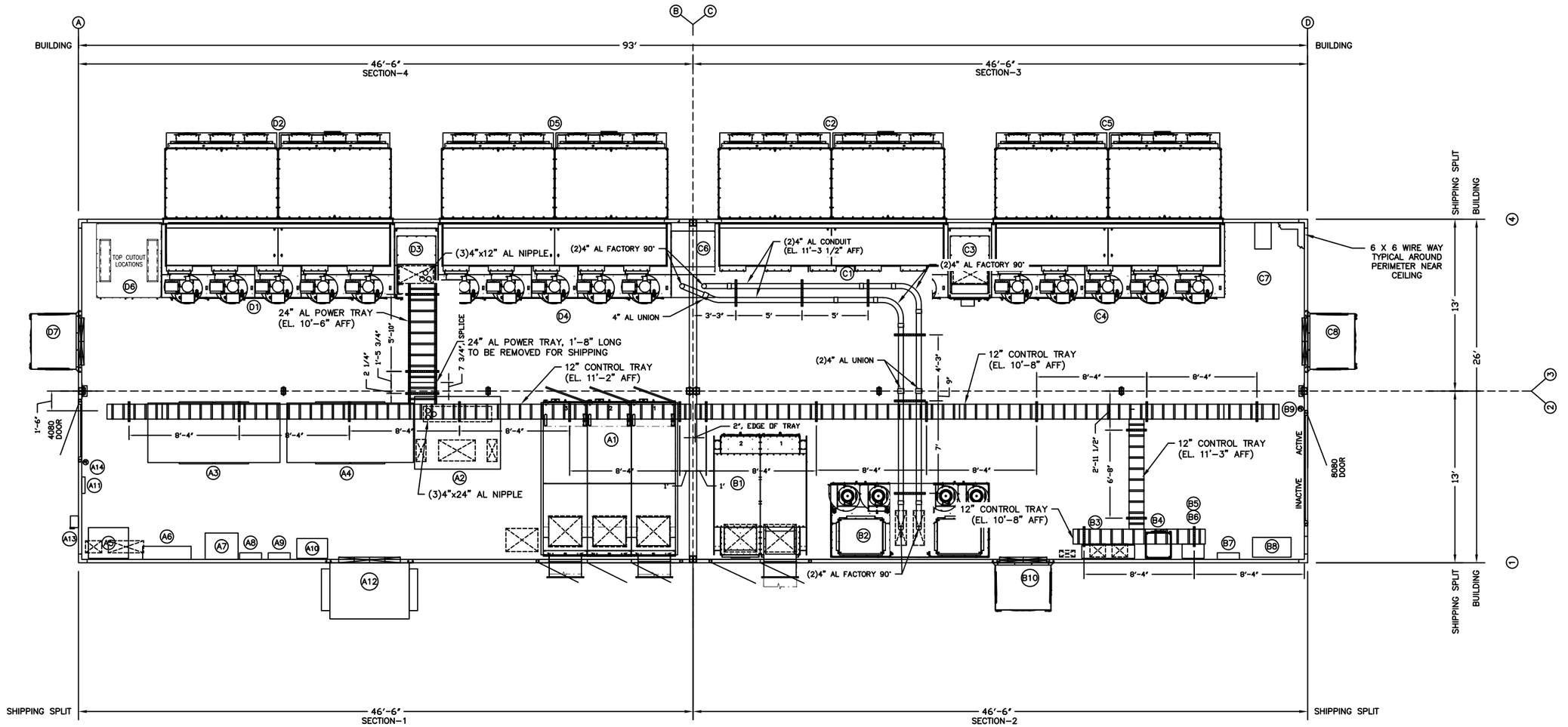

CABLE TRAY DETAILS

NO.	REVISION	DATE	BY	PM	APP
2A	AS-BUILT	11/17/23	SV	JS	GC
1A	RE-ISSUED FOR CONSTRUCTION	09/28/22	JWS	JS	BG
1	ISSUED FOR CONSTRUCTION	05/25/22	JAL	JS	BG
0A	ISSUED FOR APPROVAL	12/08/21	JAL	JS	BG

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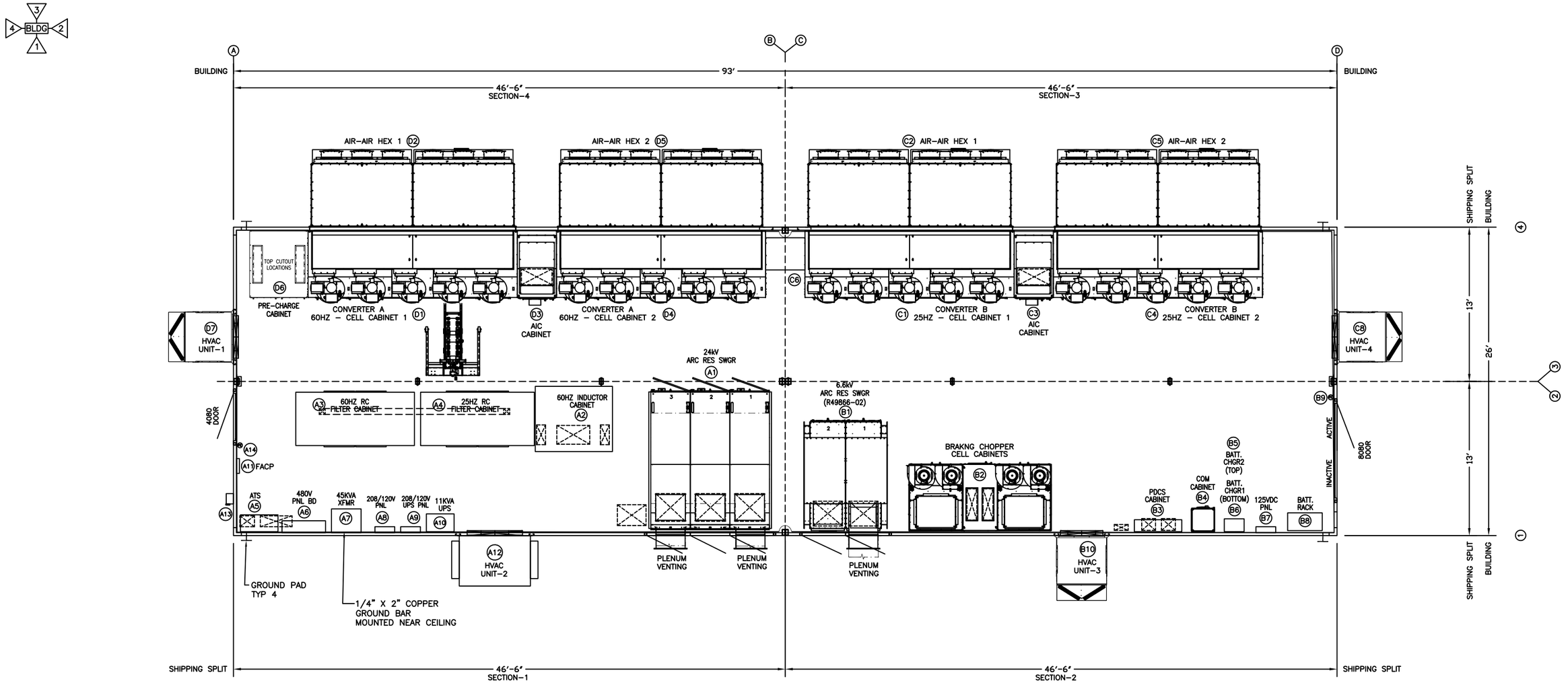
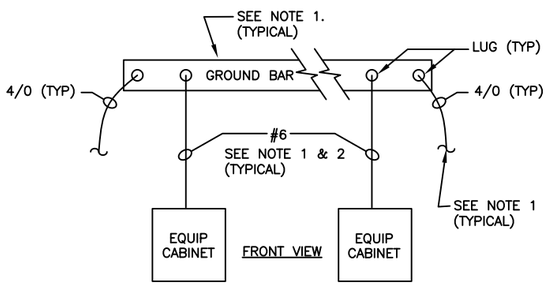
CABLE TRAY DETAILS

SCALE: FOR REF. ONLY	PROJ. MGR.	DESIGN BY	DWG. NO.	SHEET
1/4"=1'-0"		JAL		6

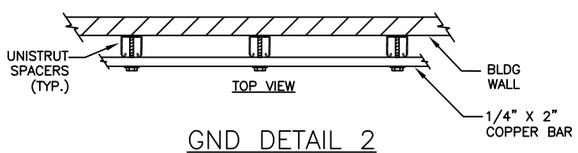
POINT EIGHT POWER, INC. 1503 / 1510 ENGINEERS RD. BELLE CHASSE, LA 70037





GND DETAIL 1

N.T.S.



GND DETAIL 2

N.T.S.

NOTES:

1.) 2" x 1/4" COPPER BAR, NEAR CEILING LEVEL, RUNNING THE LENGTH OF THE BUILDING, CONNECTED TO EXTERIOR GND PADS, 4/0 GREEN COPPER CABLE, SMALL EQUIPMENT GND DROPS SHALL BE SIZED PER NEC 250-122. #6 TYPICAL FOR 200A AND LOWER UNLESS OTHERWISE STATED.

2.) NEC 250-122 GROUND CONDUCTOR SIZING CHART
1-200 AMP = #6
201-300 AMP = #4
301-500 AMP = #2
501-800 AMP = #1/0
ABOVE 800 AMPS = #4/0

3.) ALL GROUNDING ELECTRODE CONDUCTORS FOR XFMR'S AND PANELBOARDS SHALL BE SIZED PER NEC 250-66. SEE XFMR PANEL DIAGRAM FOR CABLE SIZES BASED ON TABLE.

4.) GND BUSHINGS SHALL BE GROUNDED SEPARATELY USING #10 GREEN GND CABLE.

5.) ALL PENETRATIONS SHALL BE TOTALLY SEALED IN A MANNER TO PREVENT MOISTURE AND AIR FROM ENTERING THE BUILDING.

GROUNDING DETAILS

NO.	REVISION	DATE	BY	PM	APP
3	AS-BUILT	11/17/23	SV	JS	GC
2	RE-ISSUED FOR CONSTRUCTION	05/28/22	JWS	JS	BG
1	ISSUED FOR CONSTRUCTION	05/25/22	JAL	JS	BG
0	ISSUED FOR APPROVAL	12/08/21	JAL	JS	BG

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GROUNDING DETAILS
NEW ORLEANS SEWERAGE & WATER BOARD
W21-109-TP STATIC FREQUENCY CONVERTER -1 BLDG.
(93'X26'X12' PCD BUILDING)
P.O. NO.#: W21-109-TP-2030

SCALE: FOR REF. ONLY	PROJ. MGR.	DESIGN BY	DWG. NO.	SHEET
1/4"=1'-0"	JS	JAL	R50620-01	7

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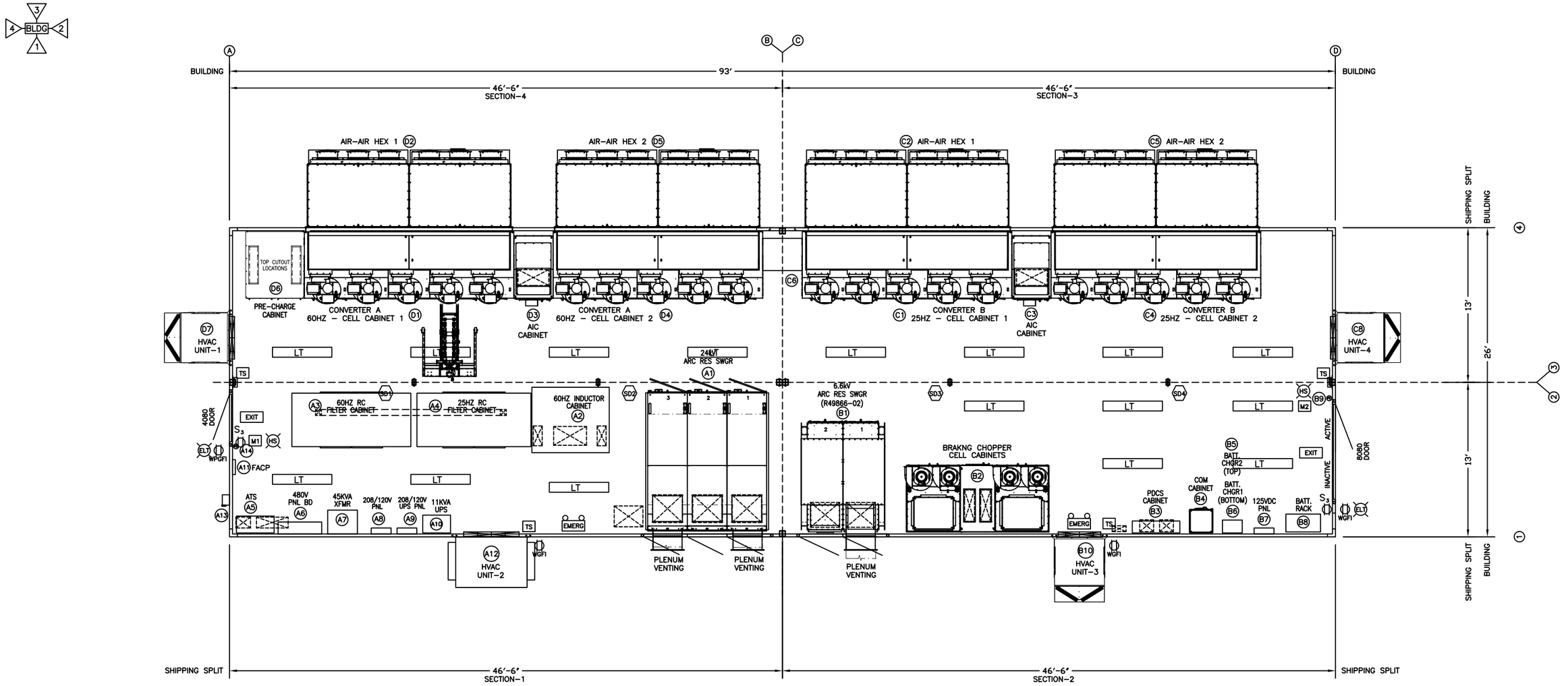

ELECTRICAL SYMBOLS

- WELDING RECEPTACLE
- 120VAC DUPLEX OUTLET
- WGFI 120VAC DUPLEX OUTLET (WPGFI)
- S_3 3 WAY SWITCH
- LT INTERIOR LIGHT
- ELT EXTERIOR LIGHT
- EXIT EXIT SIGN
- TS HVAC TSTAT
- SD SMOKE DETECTOR
- M MANUAL PULL STATION
- HS INTERIOR HORN/STROBE LIGHT
- EMERG EMERG WALL PACK LIGHTS

NOTES:

1.) NO MORE THAN 6#12 CURRENT CARRYING CONDUCTORS TO BE INSTALLED IN CONDUIT.

2.) NO MORE THAN 30 CURRENT CARRYING CONDUCTORS TO BE INSTALLED IN ANY CROSS SECTION OF WIREWAY.

3.) DO NOT BLOCK WALL OPENINGS WITH CONDUIT OR ANY OTHER OBSTRUCTION.

4.) INTERIOR LIGHTS SHALL BE INSTALLED UNDER CABLETRAY WHERE APPLICABLE.

5) ALL PENETRATIONS SHALL BE TOTALLY SEALED IN A MANNER TO PREVENT MOISTURE AND AIR FROM ENTERING THE BUILDING.

ELECTRICAL PLAN VIEW

NO.	REVISION	DATE	BY	PM	APP
3	AS-BUILT	11/17/23	SV	JS	GC
2	RE-ISSUED FOR CONSTRUCTION	09/29/22	JWS	JS	BG
1	ISSUED FOR CONSTRUCTION	05/25/22	JAL	JS	BG
0	ISSUED FOR APPROVAL	12/08/21	JAL	JS	BG

NOTE: "THIS DRAWING CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION OF POINT EIGHT POWER INC., AND IS LOANED IN CONFIDENCE WITH THE UNDERSTANDING THAT IT WILL NOT BE REPRODUCED NOR USED IN ANY MANNER WHATSOEVER DETRIMENTAL TO THE BEST INTERESTS OF POINT EIGHT POWER INC., AND THAT IT SHALL BE RETURNED ON DEMAND."

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ELECTRICAL PLAN VIEW
NEW ORLEANS SEWERAGE & WATER BOARD
W21-109-TP STATIC FREQUENCY CONVERTER -1 BLDG.
(93'X26'X12' PCD BUILDING)
P.O. NO.#: W21-109-TP-2030

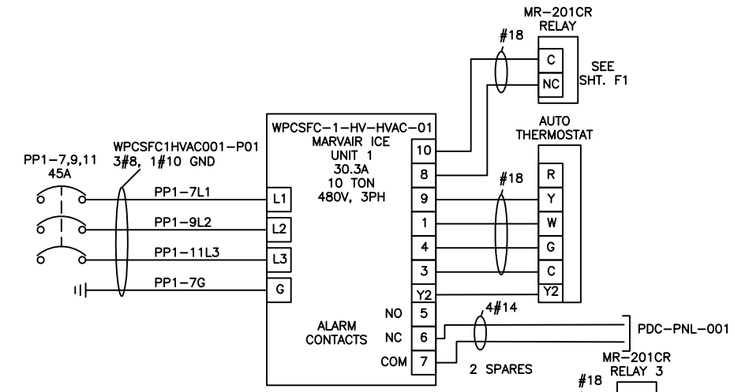
SCALE: FOR REF. ONLY	PROJ. MGR.	DESIGN BY	DWG. NO.	SHEET
1/4"=1'-0"	JS	JAL	R50620-01	8

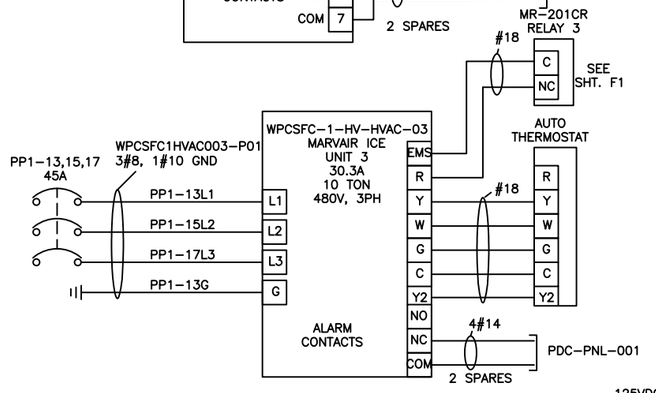
POWER PANEL WPCSFC-1-ELV60-PP-201

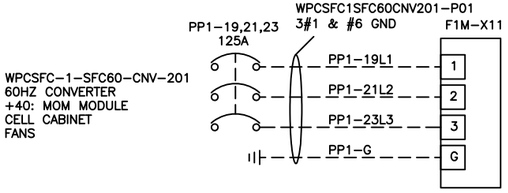
480VAC 3 PHASE, 3 WIRE, 54 CIRCUIT, 65kA, 600A MAIN

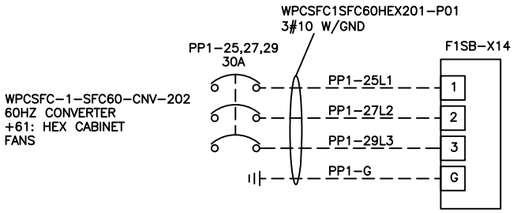
CKT	AMP	DESCRIPTION	AMPS	L1	L2	L3	AMPS	DESCRIPTION	AMP	CKT
1	20	WPCSFC-1-EMV25-XFMR-101 CONTROL POWER (FIELD INSTALLED BY OTHERS)	–	30.5			30.5	WPCSFC-1-ELP60-XFMR-201 45KVA XFMR	70	2
3			–		30.5		30.5			4
5			–			11.8	11.8			6
7	45	WPCSFC-1-HV-HVAC-01 HVAC#1	30.4	60.8			30.4	WPCSFC-1-HV-HVAC-02 HVAC#2	50	8
9			30.4		60.8		30.4			10
11			30.4			60.8	30.4			12
13	45	WPCSFC-1-HV-HVAC-03 HVAC#3	30.4	60.8			30.4	WPCSFC-1-HV-HVAC-04 HVAC#4	45	14
15			30.4		60.8		30.4			16
17			30.4			60.8	30.4			18
19	125	WPCSFC-1-SFC60-CNV-201 60HZ CONVERTER +40: MOM MODULE – CELL CABINET FANS	85	170			85	WPCSFC-1-SFC25-CNV-101 25HZ CONVERTER +43: MOM MODULE – CELL CABINET FANS	125	20
21			85		170		85			22
23			85			170	85			24
25	30	WPCSFC-1-SFC60-CNV-202 60HZ CONVERTER +60: HEX CABINET FANS	22.8	45.6			22.8	WPCSFC-1-SFC25-CNV-102 25HZ CONVERTER +60: HEX CABINET FANS	30	26
27			22.8		45.6		22.8			28
29			22.8			45.6	22.8			30
31	15	125VDC BATTERY CHARGER WPCSFC-1-EDC-BC-001	8	16			8	125VDC BATTERY CHARGER WPCSFC-1-EDC-BC-002	15	32
33			8		16		8			34
35			8			16	8			36
37	40	WPCSFC-1-SFCDC-BCHP-001 BREAKING CHOPPER FANS	–	–			–	WELDING RECEPTACLE	60	38
39			–		–		–			40
41			–			–	–			42
43	20	WPCSFC-1-EMV60-XFMR-201 CONTROL POWER (FIELD INSTALLED BY OTHERS)	–	–			–	WPCSFC-1-EMV60-XFMR-202 CONTROL POWER (FIELD INSTALLED BY OTHERS)	20	44
45			–		–		–			46
47			–			–	–			48
49		UNUSABLE SPACE	–	–				WPCSFC-1-SFC60-CNV-202 PRE-CHARGE CABINET +50	300	50
51			–		–					52
53			–			–				54
				383.7	383.7	365		TOTAL EST LOAD		

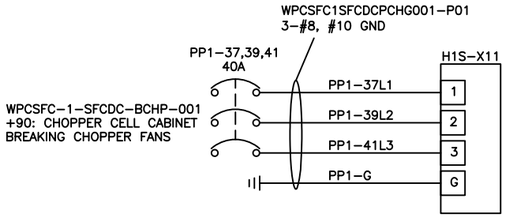
PP1 = POWER PANEL WPCSFC-1-ELV60-PP-201

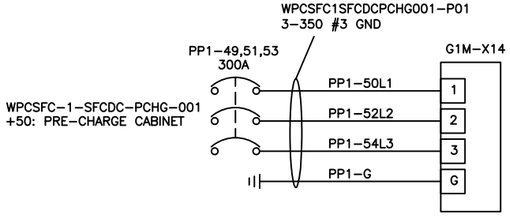


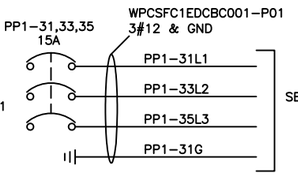


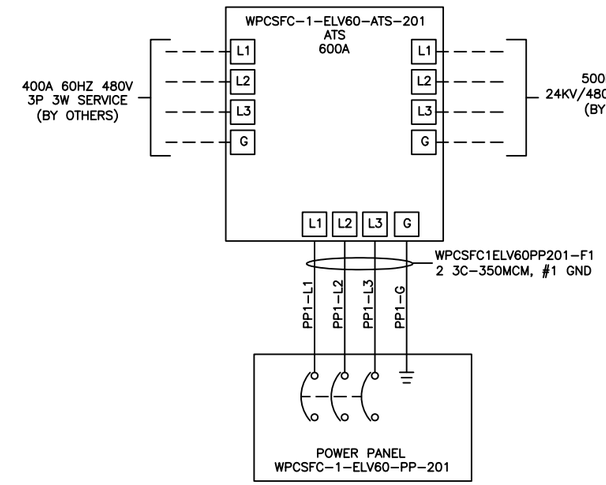


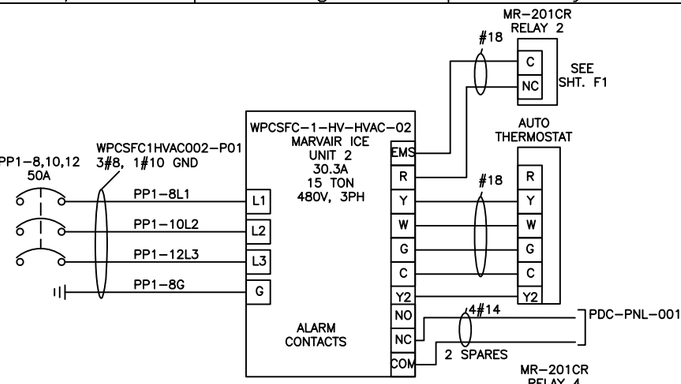


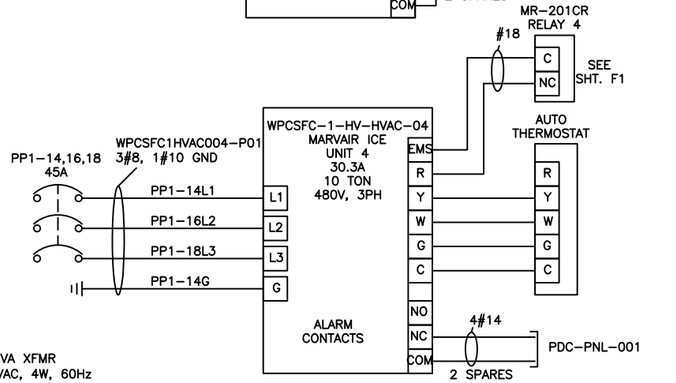


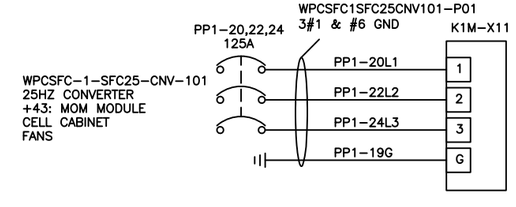


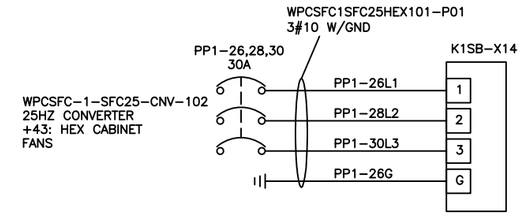


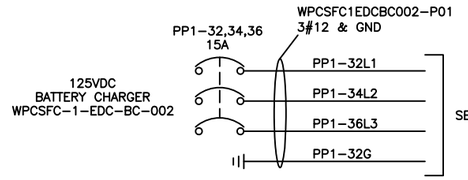


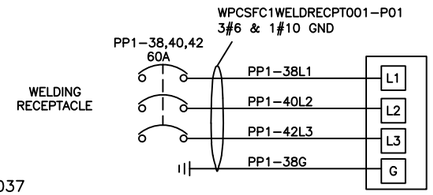












NO.	REVISION	DATE	BY	PM	APP
E	AS-BUILT	11/17/23	SV	JS	BG
D	RE-ISSUED FOR CONSTRUCTION	07/11/23	JHB	JS	BG
C	RE-ISSUED FOR CONSTRUCTION	04/11/23	JHB	JS	BG
B	ISSUED FOR CONSTRUCTION	05/25/21	JAL	JS	BG
A	ISSUED FOR APPROVAL	12/8/21	JAL	JS	BG

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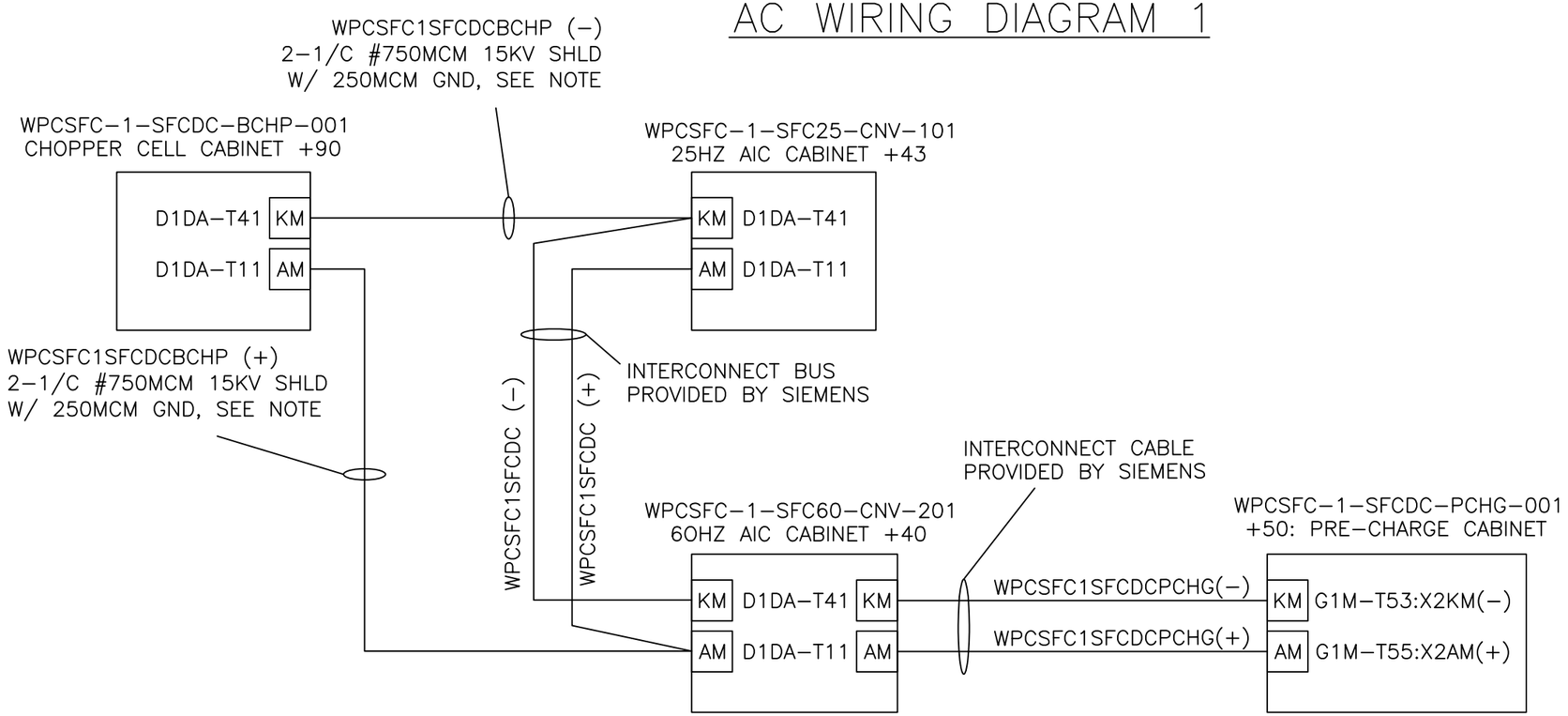
AC WIRING DIAGRAM 1
NEW ORLEANS SEWERAGE & WATER BOARD
W21-109-TP STATIC FREQUENCY CONVERTER BLDG.
(96'X26'X14'-6" PCD BUILDING)
P.O. NO.#: W21-109-TP-2030

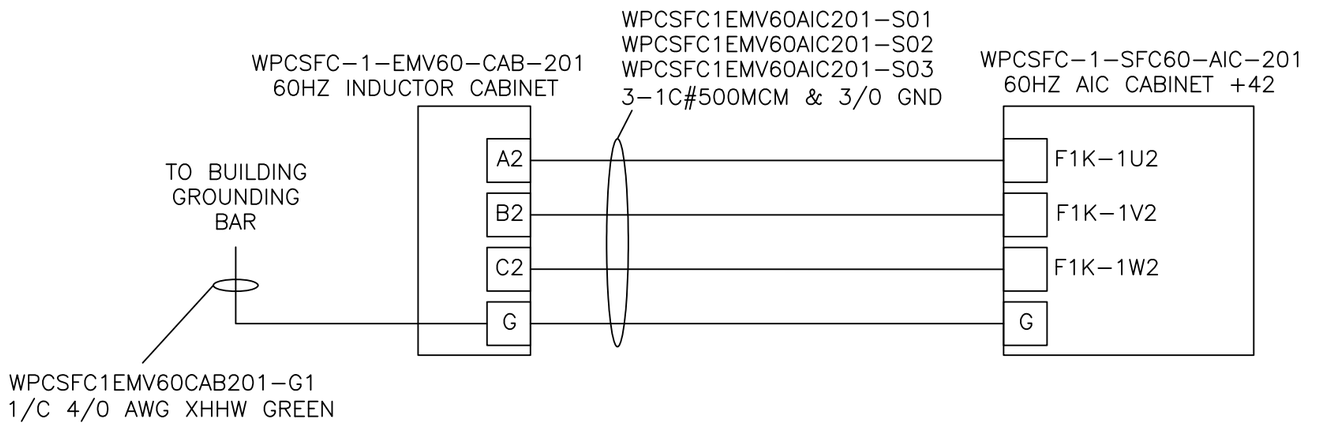
SCALE: FOR REF. ONLY	PROJ. MGR.	DESIGN BY	DWG. NO.	SHEET
NONE	JS	JAL	R50620-01	9

AC WIRING DIAGRAM 1



NOTE: POSITIVE AND NEGATIVE CABLES SHALL BE RAN IN SEAPERATE ALUMINUM CONDUITS AND GROUNDED ON BOTH ENDS AND BONDED TOGETHER TO PREVENT INDUCTION.

15KV SHIELD CABLES



NO.	REVISION	DATE	BY	PM	APP
6	AS-BUILT	11/17/23	SV	JS	BG
5B	RE-ISSUED FOR CONSTRUCTION	07/11/23	JHB	JS	BG
5A	RE-ISSUED FOR CONSTRUCTION	04/11/23	JHB	JS	BG
4	ISSUED FOR CONSTRUCTION	05/25/21	JAL	JS	BG
3A	ISSUED FOR APPROVAL	12/8/21	JAL	JS	BG

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AC WIRING DIAGRAM HI VOLTAGE
NEW ORLEANS SEWERAGE & WATER BOARD
W21-109-TP STATIC FREQUENCY CONVERTER -1 BLDG.
(96'X26'X14'-6" PCD BUILDING)
P.O. NO.#: W21-109-TP-2030

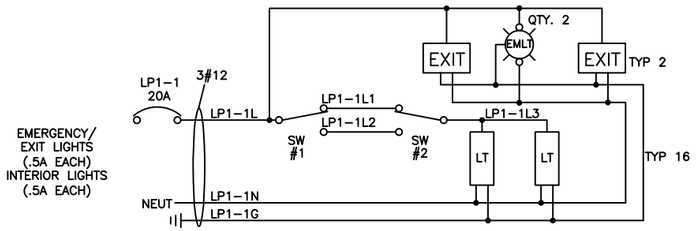
SCALE: FOR REF. ONLY	PROJ. MGR.	DESIGN BY	DWG. NO.	SHEET
NONE	JS	JAL	R50620-01	9A

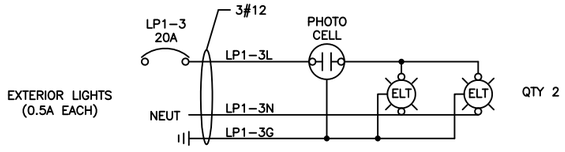
208/120V PANEL WPCSFC-1-ELP60-PP-201

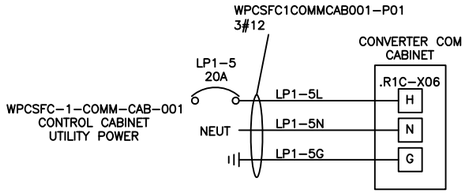
208/120VAC 3 PHASE, 4 WIRE, 42 CIRCUIT, 22kAIC, 150A Main

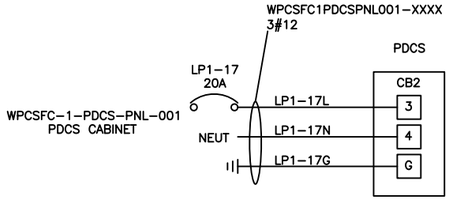
CKT	AMP	DESCRIPTION	AMPS	A PH	B PH	C PH	AMPS	DESCRIPTION	AMP	CKT
1	20	INTERIOR LIGHTS AND EXIT	11	15.5			4.5	INTERIOR RECEPTACLES	20	2
3	20	EXTERIOR LIGHTS	1		4		3	EXTERIOR GFI RECEPTACLES	20	4
5	20	COM. CAB. LGTS,OUTLET,HTR.	8			11.2	3.2	24kV SWITCHGEAR HEATERS	20	6
7	20	60HZ INDUCTOR CAB. HTRS	12.5	14.5			2	PRECHARGE CABINET HEATERS	20	8
9	20	60HZ MOM MOD. HEATERS	16		18.3		2.3	FIRE ALARM CONTROL PANEL	20	10
11	20	25HZ MOM MOD. HEATERS	16			16	–	SPARE	20	12
13			48	48			*	UPS SYSTEM	80	14
15			48		48		*			16
17	20	PDCS	–			–	–	25HZ NGR FUSED DISC. CTRL POWER	30	18
19	30	60HZ NGR FUSED DISC. CTRL POWER	–	–			–	SPARE	20	20
21	20	BREAKING CHOPPER SPACEHEATERS	–		–		–	SPARE	20	22
23	20	SPARE	–			–	–	SPARE	20	24
25	20	SPARE	–	–			–	SPARE	20	26
27	20	SPARE	–		–		–	SPARE	20	28
29	20	SPARE	–			–	–	SPARE	20	30
31	20	SPARE	–	–			–	SPARE	20	32
33	20	SPARE	–		–		–	SPARE	20	34
35	20	SPARE	–			–	–	SPARE	20	36
37	20	SPARE	–	–			–	SPARE	20	38
39	20	SPARE	–		–			SPARE	20	40
41	20	SPARE	–			–		SPARE	20	42
				78	70.3	27.2		TOTAL EST LOAD		

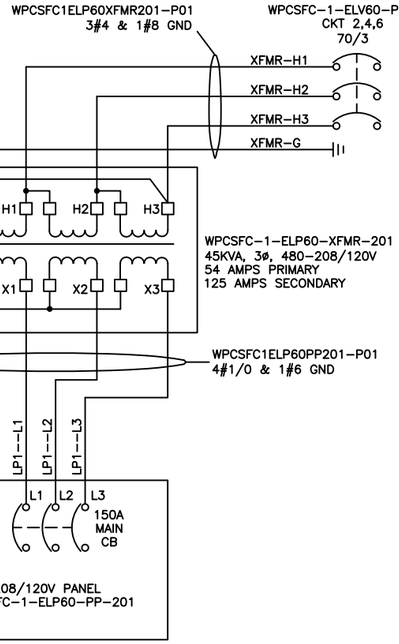
LP1 = WPCSFC-1-ELP60-PP-201

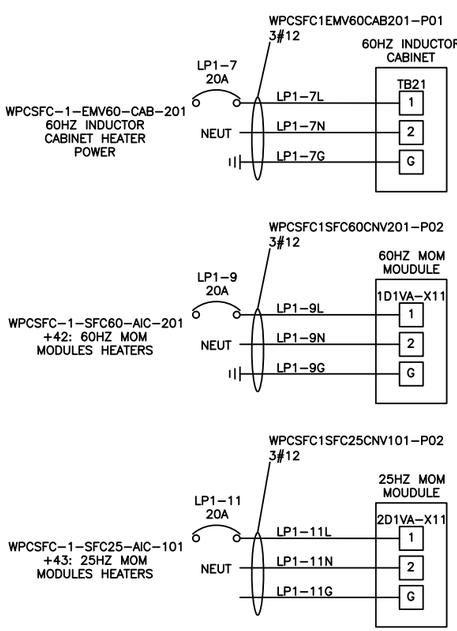


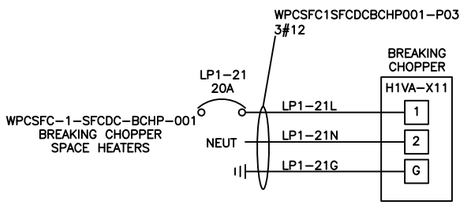


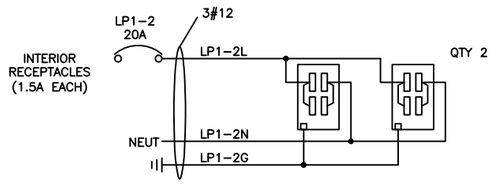


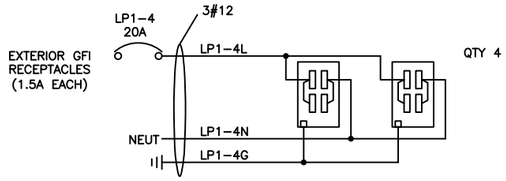


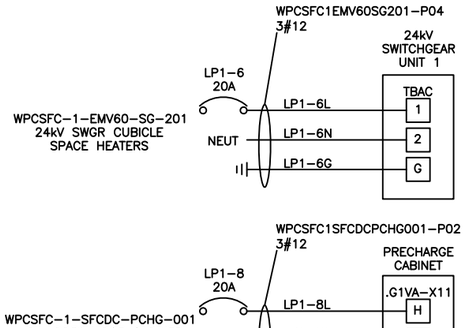


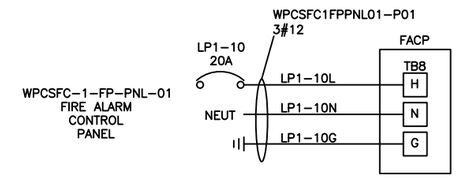


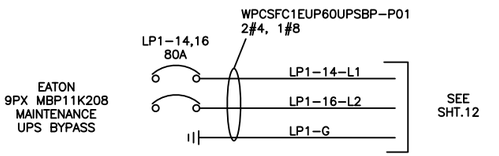












NO.	REVISION	DATE	BY	PM	APP
2	AS-BUILT	11/17/23	SV	JS	GC
1B	RE-ISSUED FOR CONSTRUCTION	04/11/23	JHB	JS	BG
1A	ISSUED FOR CONSTRUCTION	05/25/21	JAL	JS	BG
0A	ISSUED FOR APPROVAL	12/8/21	JAL	JS	BG

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AC WIRING DIAGRAM 2
NEW ORLEANS SEWERAGE & WATER BOARD
W21-109-TP STATIC FREQUENCY CONVERTER BLDG.
(96'X26'X14'-6" PCD BUILDING)
P.O. NO.#: W21-109-TP-2030

SCALE: FOR REF. ONLY	PROJ. MGR.	DESIGN BY	DWG. NO.	SHEET
NONE	JS	JAL	R50620-01	10

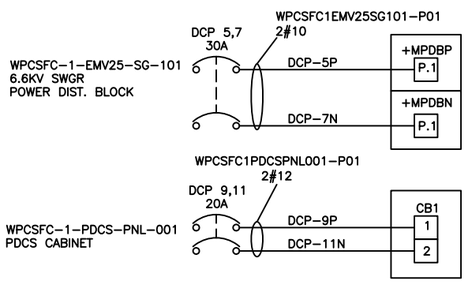
AC WIRING DIAGRAM 2

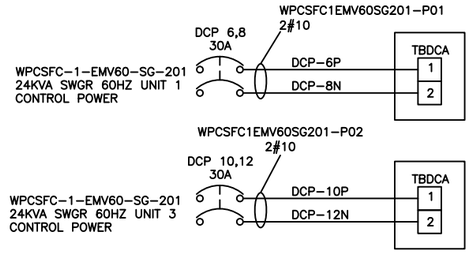
125VDC PANEL WPCSFC-1-EDC-PP-001

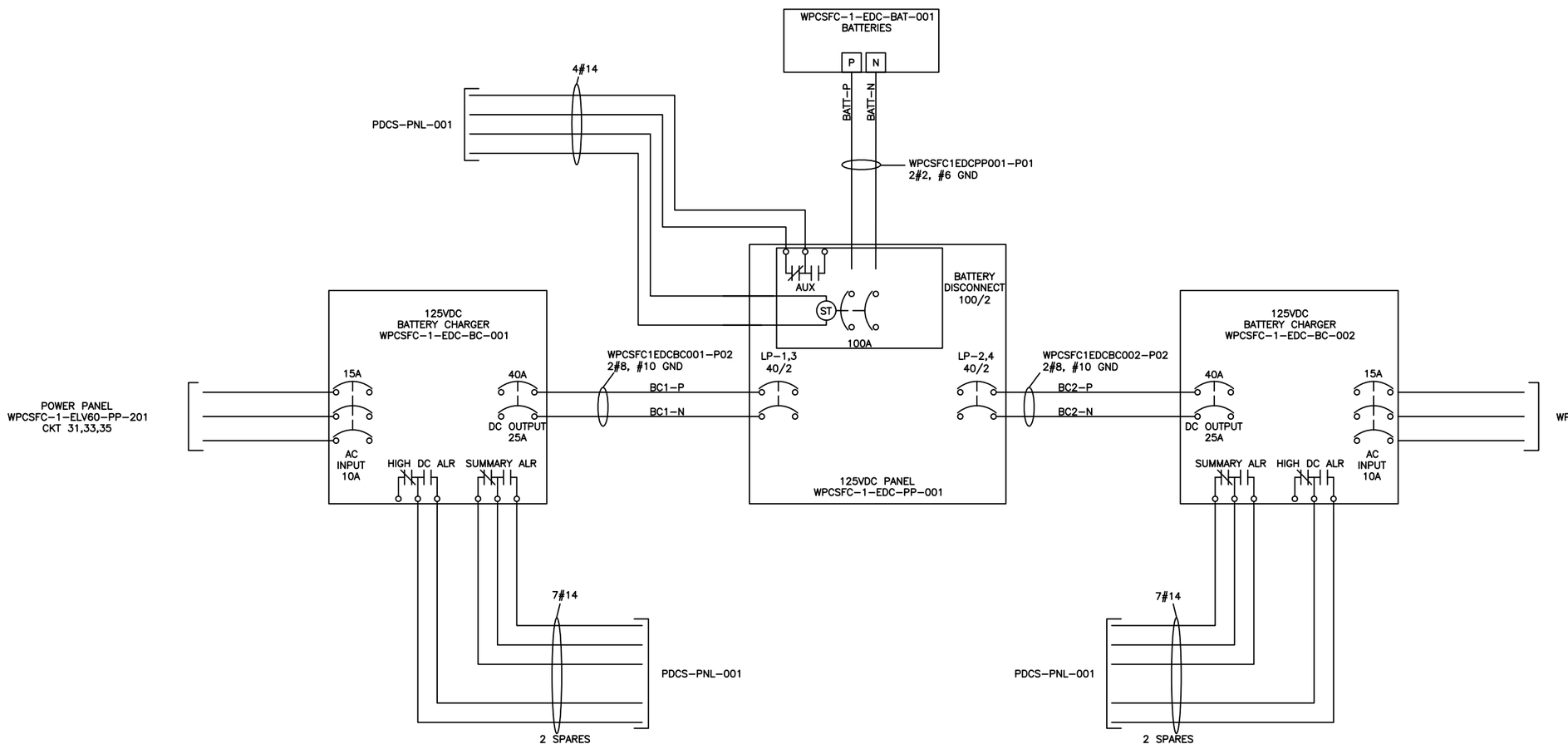
125VDC, 2 WIRE, 36 CIRCUIT, 22kA

CKT	BKR	DESCRIPTION	AMPS	POS	NEG	AMPS	DESCRIPTION	BKR	CKT
1	40	WPCSFC-1-EDC-BC-001 BATTERY CHARGER CKT	–	–		–	WPCSFC-1-EDC-BC-002 BATTERY CHARGER CKT	40	2
3									4
5	30	WPCSFC-1-EMV25-SG-101 6.6KV SWGR POWER DIST. BLOCK	1.31	2.67		1.36	WPCSFC-1-EMV60-SG-201 24KVA SWGR UNIT 1 CONTROL POWER	30	6
7									8
9	20	WPCSFC-1-PDCS-PNL-001 PDCS CABINET	1.79	2.7		.91	WPCSFC-1-EMV60-SG-201 24KVA SWGR UNIT 3 CONTROL POWER	30	10
11									12
13	20	WPCSFC-1-EMV60-XFMR-101 CNTRL POWER (FIELD INSTALLED)	–	–		–	WPCSFC-1-EMV60-XFMR-201 CNTRL POWER (FIELD INSTALLED)	20	14
15									16
17	20	SPARE	–	–		–	SPARE	20	18
19									20
21	20	SPARE	–	–		–	SPARE	20	22
23									24
25	20	SPARE	–	–		–	SPARE	20	26
27									28
29	20	SPARE	–	–		–	SPARE	20	30
31									32
33	20	SPARE	–	–		–	SPARE	20	34
35									36
			–	5.37		–	TOTAL EST LOAD		

DCP= WPCSFC-1-EDC-PP-001







DC WIRING DIAGRAM

POINT EIGHT POWER, INC. 1503 / 1510 ENGINEERS RD. BELLE CHASSE, LA 70037

NO.	REVISION	DATE	BY	PM	APP
2A	AS-BUILT	11/17/23	SV	JS	BG
1A	RE-ISSUED FOR CONSTRUCTION	04/11/23	JHB	JS	BG
1	ISSUED FOR CONSTRUCTION	05/25/21	JAL	JS	BG
0A	ISSUED FOR APPROVAL	12/8/21	JAL	JS	BG

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DC WIRING DIAGRAM 1
NEW ORLEANS SEWERAGE & WATER BOARD
W21-109-TP STATIC FREQUENCY CONVERTER -1 BLDG.
(96'X26'X14'-6" PCD BUILDING)
P.O. NO.#: W21-109-TP-2030

SCALE: FOR REF. ONLY	PROJ. MGR.	DESIGN BY	DWG. NO.	SHEET
NONE	JS	JAL	R50620-01	11

UPS PANEL WPCSFC-1-EUP60-PP-201

240/120VAC 1 PHASE, 3 WIRE, 18 CIRCUIT, 22kA, 50A MAIN

CKT	AMP	DESCRIPTION	AMPS	L1	L2	AMPS	DESCRIPTION	AMP	CKT
1	20	24kV SWGR. BREAKER LGT. CTR	2.3	12.3		10	COM. CAB. DRIVE CONTROL	20	2
3	20	60HZ MOM MOD. GRND FAULT	10		20	10	25HZ MOM MOD. GRND FAULT	20	4
5	20	60HZ INPUT FDBK CABINET	5	10		5	25HZ INPUT FDBK CABINET	20	6
7			–		–	–		20	8
9	20	BREAKING CHOPPER CNTRL PWR	–	–		–	SPARE	20	10
11	20	SPARE	–		–	–	SPARE	20	12
13	20	SPARE	–	–		–	SPARE	20	14
15	20	SPARE	–		–	–	SPARE	20	16
17	20	SPARE	–	–		–	SPARE	20	18
				22.3	20		TOTAL EST LOAD		

UPS1 = WPCSFC-1-EUP60-PP-201

WPCSFC1EMV60SG201-P03
3#12
UPS1-1
20A
UPS1-1L
NEUT
UPS1-1N
UPS1-1G
24kV SWITCHGEAR UNIT 1
TBAC
3
4
G
WPCSFC-1-EMV60-SG-201
24kV SWITCHGEAR BREAKER LIGHT CONTROL

WPCSFC1SFC60CNV201-P03
3#12
UPS1-3
20A
UPS1-3L
NEUT
UPS1-3N
UPS1-3G
60HZ MOM MOUDULE
F1X-X21
H
N
G
WPCSFC-1-SFC60-AIC-201
60HZ MOM +40 MODULE GROUND FAULT MONITOR

WPCSFC1EMV60AVT201-P01
3#12
UPS1-5,7
20A
UPS1-5L
UPS1-7L
UPS1-5G
60HZ INPUT FEEDBACK CABINET
.D1XA-X21
H
N
G
WPCSFC-1-EMV60-AVT-201
60HZ INPUT VOLTAGE FEEDBACK CONTROL POWER
+81

AVT 6.6KV SWITCHGEAR

WPCSFC1SFCDCBCHP001-P02
3#12
UPS1-9
20A
UPS1-97L
NEUT
UPS1-9N
UPS1-9G
BREAKING CHOPPER CONTROL POWER
H1P-X11
1
2
G
WPCSFC-1-SFCDC-BCHP-001
BREAKING CHOPPER CONTROL POWER
+90

WPCSFC1COMMCAB001-P02
3#12
UPS1-2
20A
UPS1-2L
NEUT
UPS1-2N
UPS1-2G
CONVERTER COM CABINET
.R1B-X03
H
N
G
WPCSFC-1-COMM-CAB-001
CONTROL CABINET
+10 DRIVE CONTROL POWER

WPCSFC1SFC25CNV101-P03
3#12
UPS1-4
20A
UPS1-4L
NEUT
UPS1-4N
UPS1-4G
25HZ MOM MOUDULE
K1X-X21
H
N
G
WPCSFC-1-SFC25-AIC-101
25HZ MOM +43 MODULE GROUND FAULT MONITOR

WPCSFC1EMV25AVT101-P01
3#12
UPS1-6,8
20A
UPS1-6L
UPS1-8L
UPS1-6G
25HZ INPUT FEEDBACK CABINET
.D1X-X22
H
N
G
WPCSFC-1-EMV25-AVT-101
25HZ INPUT VOLTAGE FEEDBACK CONTROL POWER
+82

AVT 6.6KV SWITCHGEAR

WPCSFC-1-EUP60-UPS-201
UPS RACK

208/120V PANEL
WPCSFC-1-ELP60-PP-201
CKT. 14,16
SEE SHT.10

L1
L2
G
INPUT
UPS
EATON
9PX11KPM
OUTPUT

WPCSFC1EUP60UPS201N-P01
2#4, #8
UPS1-L1-OUT
UPS1-L2-OUT
UPS1-G-OUT

EATON 9PX
MBP11K208
MAINTENANCE
BYPASS

EBM PORT

EATON
FACTORY SUPPLIED
CABLES

EBM PORT
9PXEBM240RT
BATTERY
EBM PORT

EATON
FACTORY SUPPLIED
CABLES

EBM PORT
9PX 8/11KVA EBM 240
BATTERY
EBM PORT

OUTPUT TO 9PX XFMR
L1 L2 G
WPCSFC1EUP60UPS201BP-P01
2#4, #8
L1 L2 G
9PXTFMR11
L1 4 UPS1-L1
N 5 UPS1-N
L2 6 UPS1-L2
G 7 UPS1-G

WPCSFC1EUP60PP201-P01
3#6, #6

G L1 L2 N
50A MAIN CB
UPS PANEL
WPCSFC-1-EUP60-PP-201

UPS DISTRIBUTION DIAGRAM

POINT EIGHT POWER, INC. 1503 / 1510 ENGINEERS RD. BELLE CHASSE, LA 70037

NO.	REVISION	DATE	BY	PM	APP
2	AS-BUILT	11/17/23	SV	JS	GC
1A	RE-ISSUED FOR CONSTRUCTION	04/11/23	JHB	JS	BG
1	ISSUED FOR CONSTRUCTION	05/25/21	JAL	JS	BG
0A	ISSUED FOR APPROVAL	12/8/21	JAL	JS	BG

POINT EIGHT POWER
POINTEIGHTPOWER.COM
www.PointEightPower.com
800.284.1522

UPS DISTRIBUTION DIAGRAM
NEW ORLEANS SEWERAGE & WATER BOARD
W21-109-TP STATIC FREQUENCY CONVERTER -1 BLDG.
(96'X26'X14'-6" PCD BUILDING)
P.O. NO.#: W21-109-TP-2030

SCALE: FOR REF. ONLY	PROJ. MGR.	DESIGN BY	DWG. NO.	SHEET
NONE	JS	JAL	R50620-01	12

FIRE ALARM SYMBOL LEGEND

SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL PANEL
V cd	STROBE, MOUNT 80" A.F.F., 2 1/8" DEEP, 4" SQUARE W/1 1/2" DEEP EXT. RING. (WALL MOUNTED)
A/V XX	HORN STROBE, 2 1/8" DEEP, 4" SQUARE W/1 1/2" DEEP EXT. RING. (CEILING MOUNTED)
	SMOKE DETECTOR (4" OCTAGON)
F	PULL STATION (2-1/8" DEEP, 4" SQUARE)
R	RELAY MODULE (2-1/8" DEEP, 4" SQUARE)
WP	"WP" INDICATES WEATHER PROOF DEVICE

FIRE ALARM WIRE LEGEND

1A	18/2 TWISTED FOR SLC DATA
1B	14/2 TWISTED FOR 24VDC
1C	14/2 TWISTED FOR STROBE
1D	18/2 TWISTED SHIELDED FOR SPEAKERS
1E	18/2 TWISTED SHIELDED FOR ANNUNCIATOR DATA
1F	18/2 TWISTED SHIELDED FOR FIRE PHONES
1G	18/2 AND 14/2 FOR SOUNDER BASES
1H	CAT6 FOR AREA OF REFUGE

NOTE: ALL WIRING MUST BE FREE OF GROUNDS, SHIELDED CONDUCTOR DRAIN WIRES MUST BE MADE CONTINUOUS THROUGHOUT THE CIRCUIT AND MUST BE FREE OF GROUNDS. TWIST DRAIN WIRES TOGETHER AT EACH DEVICE, WRAP AROUND CONDUCTORS AND TAPE. CIRCUITS UTILIZING EOL RESISTORS SHOULD READ EOL RESISTOR WHEN READ WITH A METER AND EACH CONDUCTOR SHOULD READ OPEN TO GROUND, INCLUDING DRAIN WIRE.

FIRE ALARM GENERAL NOTES

1. PER NFPA 72, SMOKE DETECTORS SHALL BE MOUNTED ON THE CEILING NO NEARER THAN 12 INCHES FROM A SIDE WALL.

2. PER NFPA 72, IF LOCATED ON THE SIDE WALL, THE TOP OF THE DETECTOR SHALL BE LOCATED BETWEEN 4 AND 12 INCHES BELOW THE CEILING.

3. PER NFPA 72, SMOKE DETECTORS SHALL NOT BE LOCATED IN DIRECT AIR FLOW, NOR NEARER THAN 3 FEET FROM AN AIR SUPPLY DIFFUSER. ALSO DETECTORS SHALL NOT BE INSTALLED WITHIN 4 INCHES OF A SPRINKLER HEAD.

4. PER NFPA 72, SMOKE DETECTORS SHALL NOT BE INSTALLED UNTIL THE CONSTRUCTION CLEAN-UP OF ALL OTHER TRADES IS COMPLETE AND FINAL.

5. PER NFPA 72 AND ADA REQUIREMENTS, PULL STATIONS SHALL BE MOUNTED AT A HEIGHT OF 48 INCHES TO THE TOP.

6. PER NFPA 72 AND ADA REQUIREMENTS, VISUALS AND AUDIO VISUALS SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80 INCHES AND NOT GREATER THAN 96 INCHES ABOVE THE FINISHED FLOOR, MINIMUM 6" BELOW CEILING TO TOP OF LENS.

7. ALL WIRING INSTALLED PER NFPA 72.

8. ALL CONDUIT TO BE 3/4" MINIMUM.

9. ALL CONDUIT STUB-UPS TO HAVE BUSHING INSTALLED TO PROTECT WIRE - 3/4" MINIMUM.

10. NO CONDUIT ENTRY IS ALLOWED IN BOTTOM OF FIRE ALARM CONTROL PANEL (FACP) OR FIRE CONTROL POWER SUPPLY (FCPS). OR VOICE EVAC

11. ALL VISIBLE NOTIFICATION DEVICES LOCATED WITHIN THE FIELD OF VIEW SHALL BE SYNCHRONIZED.

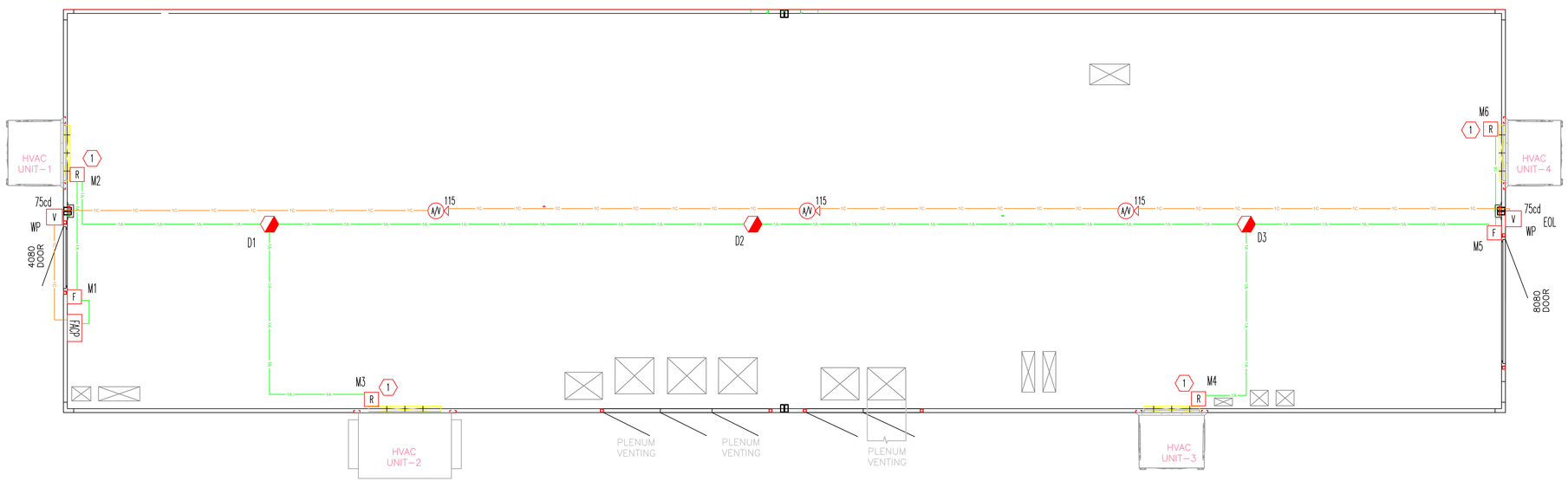
12. ALL AUDIBLE INDICATING APPLIANCES SHALL BE EFFECTIVELY HEARD ABOVE AVERAGE AMBIENT SOUND LEVEL OCCURRING UNDER NORMAL CONDITIONS OF OCCUPANCY.

FIRE ALARM SPECIAL NOTES

1 RELAY IS SHALL SHUT UNIT OFF IN GENERAL ALARM

FIRE ALARM SEQUENCE OF OPERATION MATRIX

INITIATION ACTION	MANUAL PULL STATION	SMOKE DETECTOR	WATER FLOW SWITCH	OPENS, SHORTS, AND GROUNDS ON CIRCUITS	REMOVING, TAMPERING OR OPENING DEVICES	ABNORMAL VOLTAGE, BATTERY OR FACP TROUBLES	ABNORMAL SWITCH POSITION AT FACP
CONTINUOUSLY OPERATE ALARM NOTIFICATION DEVICES	X	X	X				
IDENTIFY ALARM AT FIRE ALARM CONTROL UNIT AND REMOTE ANNUNCIATOR	X	X	X				
TRANSMIT ALARM SIGNAL TO THE MONITORING SERVICE	X	X	X				
DISPLAY SUPERVISION CONDITION AT FACP	X	X	X				
TRANSMIT SUPERVISORY SIGNAL TO THE MONITORING SERVICES	X	X	X				
TRANSMIT TROUBLE SIGNAL TO THE MONITORING SERVICES				X	X	X	X
DISPLAY TROUBLE CONDITION AT FACP				X	X	X	X
RECORD EVENTS IN THE SYSTEM MEMORY	X	X	X	X	X	X	X



ADS SYSTEMS, LLC
30 VETERANS BLVD
KENNER, LA 70062
PHONE: 504.471.0917
FAX: 504.471.9024

FIRE ALARM SHOP DRAWINGS

SCALE: 1/4"=1'-0"

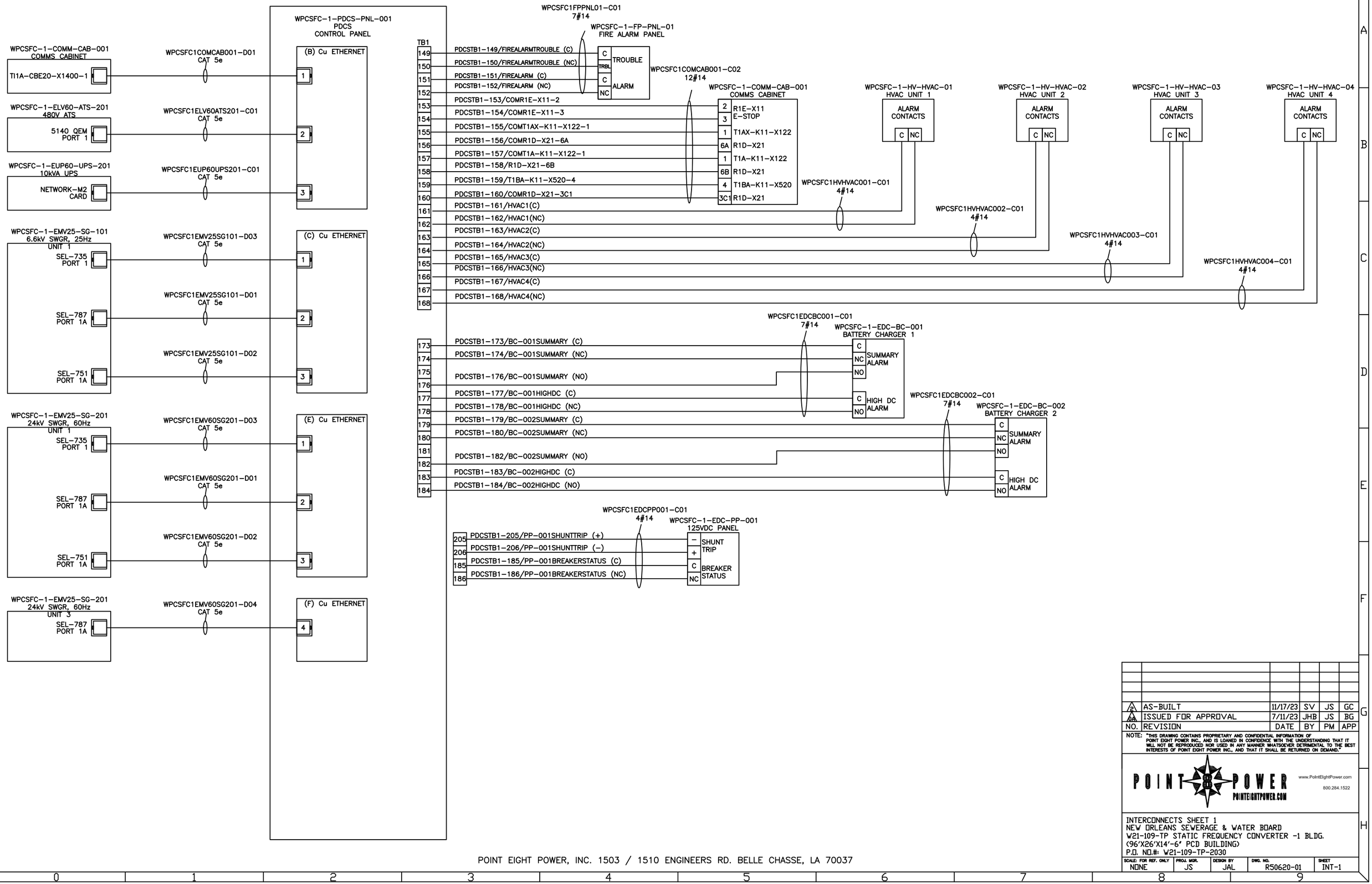
DESIGNED BY: Wayne Guillot Jr.

DATE DRAWN: 11/07/2022

R50620 BARNES ELECTRIC NOSWB STATIC FREQUENCY
1503 ENGINEERS ROAD
BELLE CHASE, LA 70037

REVIEWED BY:
NICET III
Vincent Peak
NICET# 85204

FA-01
1ST FLOOR
ADS JOB NUMBER: 5955
SHEET NUMBER: 1 OF 1



NO.	REVISION	DATE	BY	PM	APP
2	AS-BUILT	11/17/23	SV	JS	GC
1	ISSUED FOR APPROVAL	7/11/23	JHB	JS	BG

NOTE: "THIS DRAWING CONTAINS PROPRIETARY AND CONFIDENTIAL INFORMATION OF POINT EIGHT POWER INC., AND IS LOANED IN CONFIDENCE WITH THE UNDERSTANDING THAT IT WILL NOT BE REPRODUCED NOR USED IN ANY MANNER WHATSOEVER DETRIMENTAL TO THE BEST INTERESTS OF POINT EIGHT POWER INC., AND THAT IT SHALL BE RETURNED ON DEMAND."

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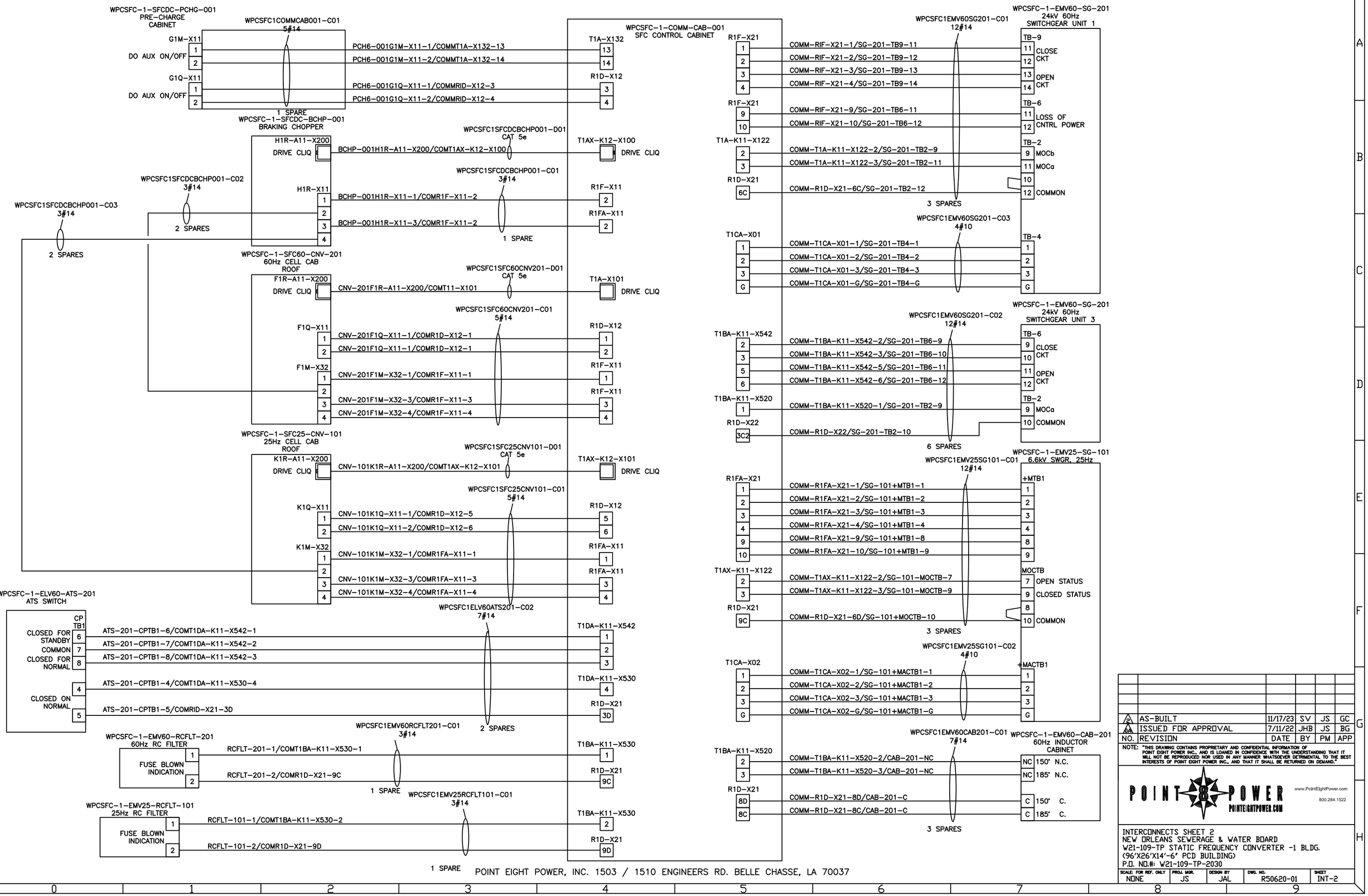
800.284.1522

INTERCONNECTS SHEET 1
NEW ORLEANS SEWERAGE & WATER BOARD
W21-109-TP STATIC FREQUENCY CONVERTER -1 BLDG.
(96'X26'X14'-6" PCD BUILDING)
P.O. NO.#: W21-109-TP-2030

SCALE: FOR REF. ONLY	PROJ. MGR.	DESIGN BY	DWG. NO.	SHEET
NONE	JS	JAL	R50620-01	INT-1



NO.	REVISION	DATE	BY	PM	APP
2	AS-BUILT	11/17/23	SV	JS	GC
1	ISSUED FOR APPROVAL	7/11/22	JHB	JS	BG

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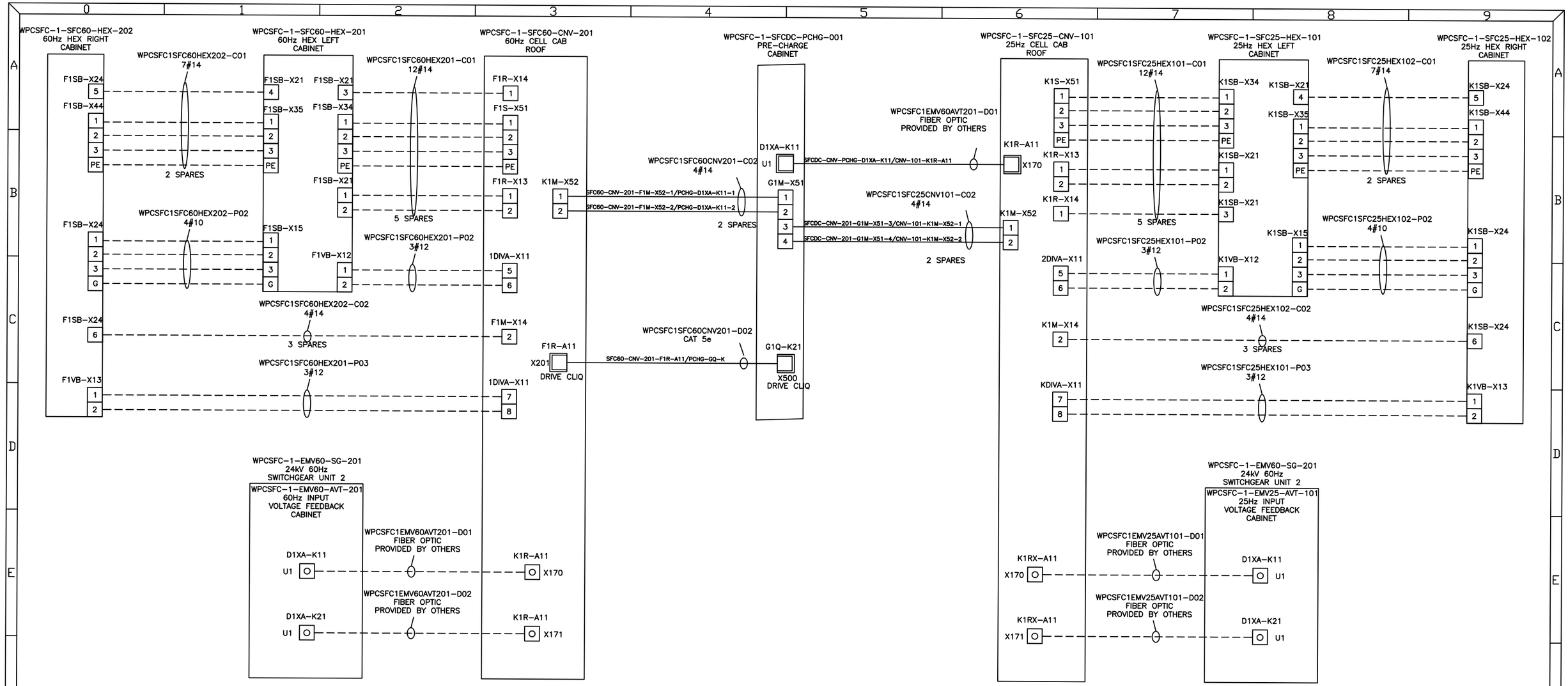
INTERCONNECTS SHEET 2
NEW ORLEANS SEWERAGE & WATER BOARD
W21-109-TP STATIC FREQUENCY CONVERTER -1 BLDG.
(96'X26'X14'-6" PCD BUILDING)
P.O. NO.#: W21-109-TP-2030

SCALE: FOR REF. ONLY	PROJ. MGR.	DESIGN BY	DWG. NO.	SHEET
NONE	JS	JAL	R50620-01	INT-2



NO.	REVISION	DATE	BY	PM	APP
2	AS-BUILT	11/17/23	SV	JS	GC
1	ISSUED FOR APPROVAL	11/7/22	JHB	JS	BG

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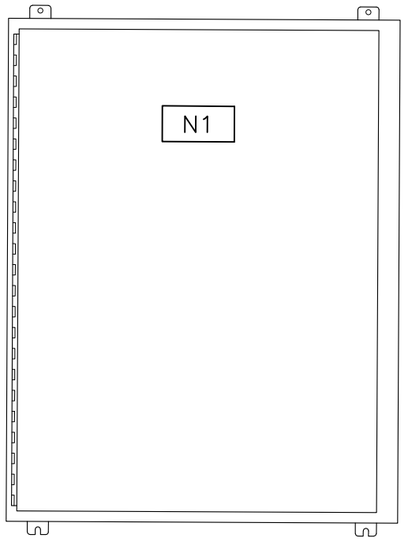
INTERCONNECTS SHEET 3
NEW ORLEANS SEWERAGE & WATER BOARD
W21-109-TP STATIC FREQUENCY CONVERTER -1 BLDG.
(96'X26'X14'-6" PCD BUILDING)
P.O. NO.#: W21-109-TP-2030

SCALE: FOR REF. ONLY	PROJ. MGR.	DESIGN BY	DWG. NO.	SHEET
NONE	JS	JAL	R50620-01	INT-3



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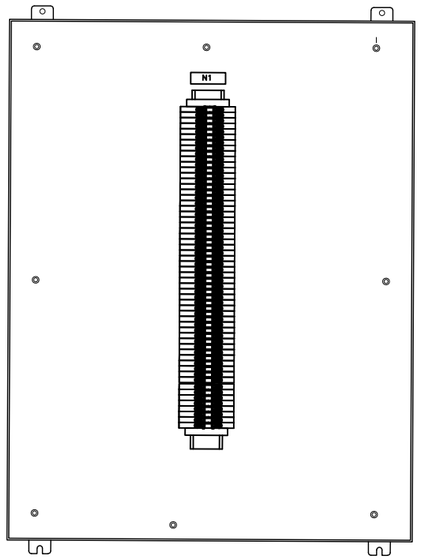

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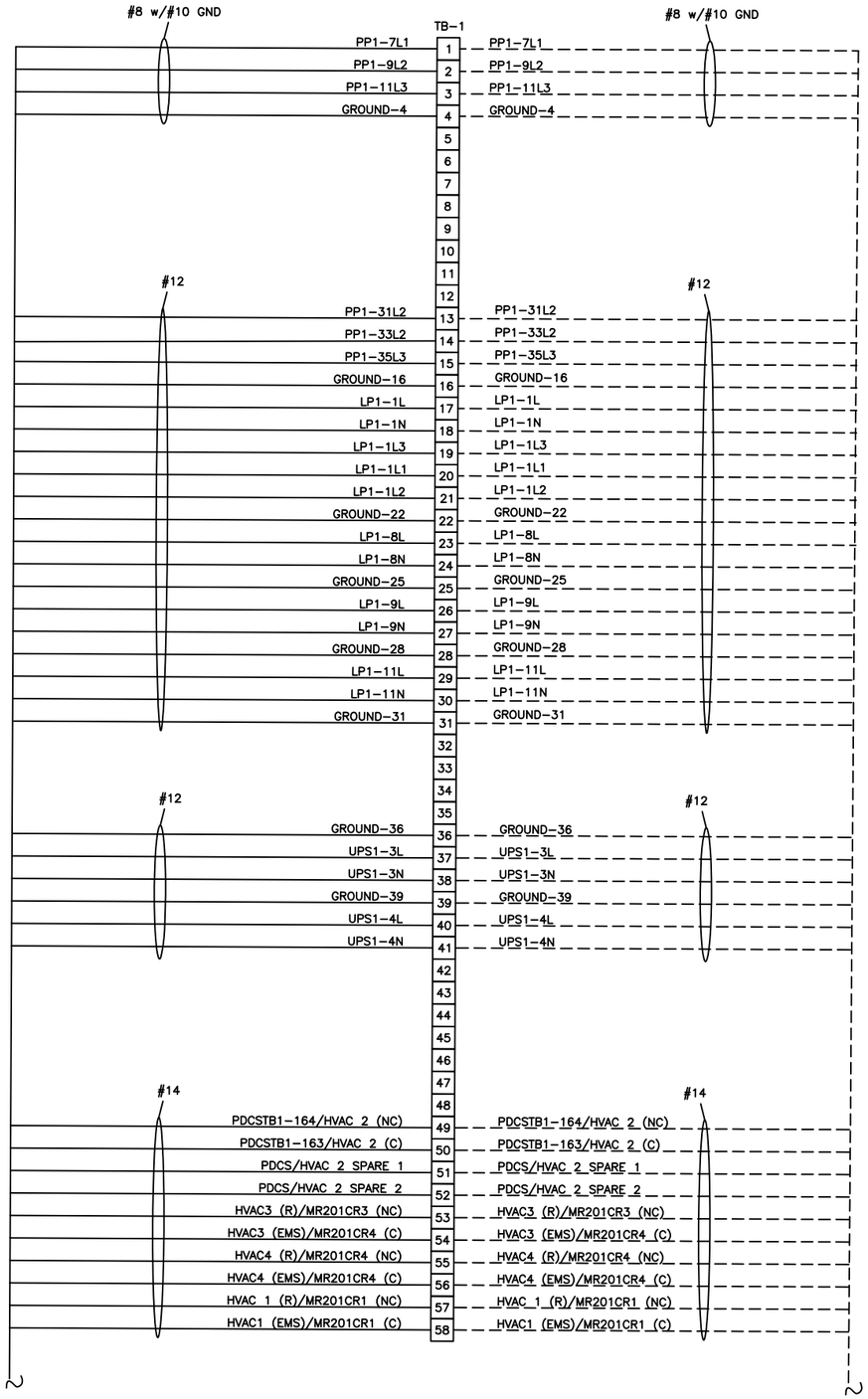
JUNCTION BOX #1 ③



TO BLD WIREWAY

TO BLD WIREWAY

TO BE DISCONNECTED AND ROLLED BACK FOR SHIPPING

BILL OF MATERIAL				
ITEM	QTY.	DESCRIPTION	MANUFACTURER	MODEL #
1	1	ENCLOSURE NEMA 20"HX16"WX6"L HINGED COVER	B-LINE	2016612
2	1	BACK PANEL 6.12X4.75	B-LINE	/
3	58	TERMINAL BLOCK		

NAMEPLATE SCHEDULE				
ID	SIZE	LETTERING	BACKGROUND	ENGRAVING
				FIRST LINE
N1	3X6	BLACK	WHITE	JUNCTION BOX #1

NO.	REVISION	DATE	BY	PM	APP
2	AS-BUILT	11/15/23	SV	JS	BG

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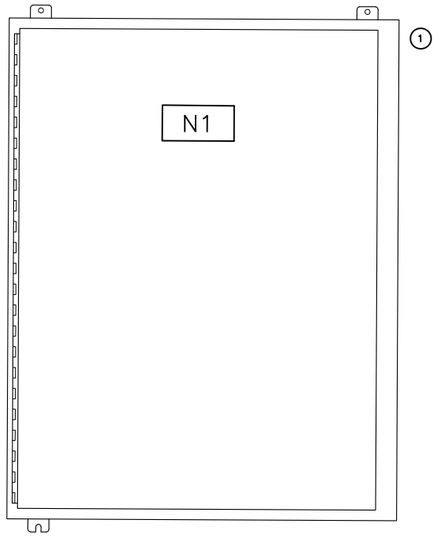
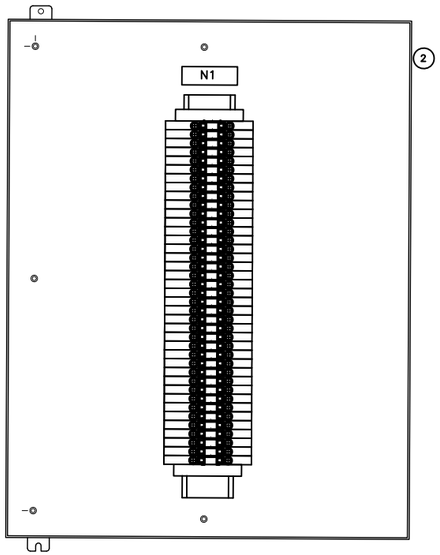
JUNCTION BOX 1
NEW ORLEANS SEWERAGE & WATER BOARD
W21-109-TP STATIC FREQUENCY CONVERTER -1 BLDG.
(96'X26'X14'-6" PCD BUILDING)
P.O. NO.#: W21-109-TP-2030

SCALE: FOR REF. ONLY	PROJ. MGR.	DESIGN BY	DWG. NO.	SHEET
NONE	JS	JAL	R50620-01	JB-1

JUNCTION BOX #2





TB-2

	1	
	2	
	3	
	4	
#12 PP1-31 (L1)	5	#12 PP1-31 (L1)
PP1-33 (L2)	6	PP1-33 (L2)
PP1-35 (L3)	7	PP1-35 (L3)
GROUND-8	8	GROUND-8
LP1-1L	9	LP1-1L
LP1-1N	10	LP1-1N
LPN-1L3	11	LPN-1L3
LP1-1L1	12	LP1-1L1
LP1-1L2	13	LP1-1L2
GROUND-14	14	GROUND-14
LP1-11L	15	LP1-11L
LP1-11N	16	LP1-11N
GROUND-17	17	GROUND-17
	18	
	19	
#12 UPS1-4L	20	#12 UPS1-4L
UPS1-4N	21	UPS1-4N
GROUND-23	22	GROUND-23
	23	
	24	
	25	
	26	
#14 PDCS-TB1-161/HVAC-1 (NC)	27	#14 PDCS-TB1-161/HVAC-1 (NC)
PDCS-TB1-161/HVAC-1 (C)	28	PDCS-TB1-161/HVAC-1 (C)
PDCS/HVAC1 SPARE 1	29	PDCS/HVAC1 SPARE 1
PDCS/HVAC1 SPARE 2	30	PDCS/HVAC1 SPARE 2
PDCS/TB1-164/HVAC-2 (NC)	31	PDCS/TB1-164/HVAC-2 (NC)
PDCS/TB1-163/HVAC-2 (C)	32	PDCS/TB1-163/HVAC-2 (C)
PDCS/HVAC2 SPARE 1	33	PDCS/HVAC2 SPARE 1
PDCS/HVAC2 SPARE 2	34	PDCS/HVAC2 SPARE 2
HVAC3 (R)/MR201CR3 (NC)	35	HVAC3 (R)/MR201CR3 (NC)
HVAC3 (EMS)/MR201CR3 (C)	36	HVAC3 (EMS)/MR201CR3 (C)
HVAC4 (R)/MR201CR4 (NC)	37	HVAC4 (R)/MR201CR4 (NC)
HVAC4 (EMS)/MR201CR4 (C)	38	HVAC4 (EMS)/MR201CR4 (C)

TO BLD WIREWAY

TO BE DISCONNECTED AND ROLLED BACK FOR SHIPPING

TO BLD WIREWAY

TO BE DISCONNECTED AND ROLLED BACK FOR SHIPPING

BILL OF MATERIAL

ITEM	QTY.	DESCRIPTION	MANUFACTURER	MODEL #
1	1	ENCLOSURE NEMA 20"HX16"WX6"L HINGED COVER	B-LINE	2016612
2	1	BACK PANEL 6.12X4.75	B-LINE	/
3	38	TERMINAL BLOCK		

NAMEPLATE SCHEDULE

ID	SIZE	LETTERING	BACKGROUND	ENGRAVING
				FIRST LINE
N1	3X6	BLACK	WHITE	JUNCTION BOX #2

NO.	REVISION	DATE	BY	PM	APP
A	AS-BUILT	11/15/23	SV	JS	BG

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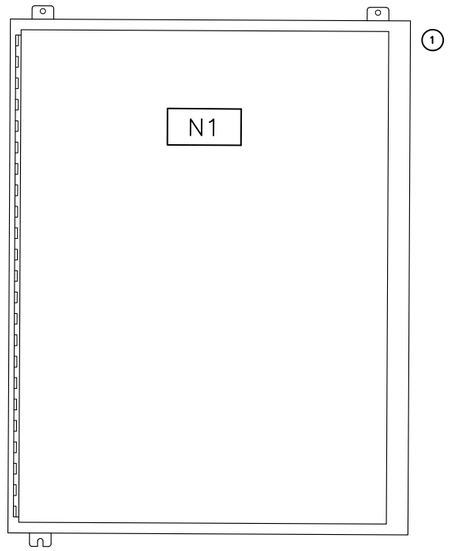
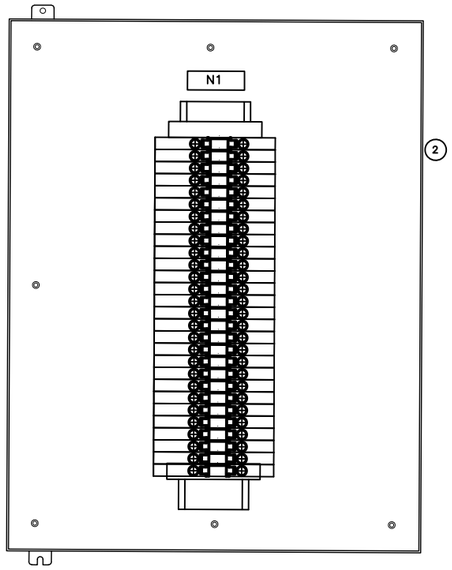
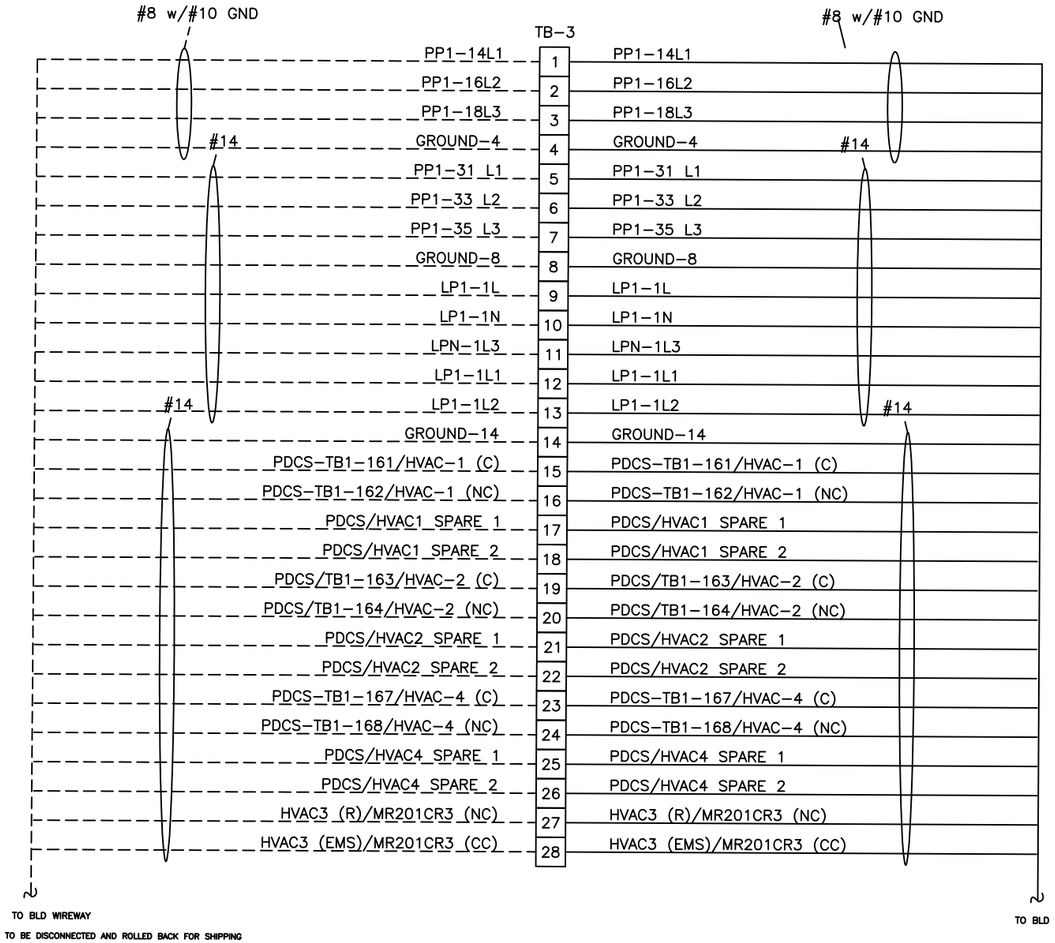
JUNCTION BOX 2
NEW ORLEANS SEWERAGE & WATER BOARD
W21-109-TP STATIC FREQUENCY CONVERTER -1 BLDG
(96'X26'X14'-6" PCD BUILDING)
P.O. NO.#: W21-109-TP-2030

SCALE: FOR REF. ONLY	PROJ. MGR.	DESIGN BY	DWG. NO.	SHEET
NONE	JS	JAL	R50620-01	JB-2





JUNCTION BOX #3



BILL OF MATERIAL				
ITEM	QTY.	DESCRIPTION	MANUFACTURER	MODEL #
1	1	ENCLOSURE NEMA 20"HX16"WX6"L HINGED COVER	B-LINE	2016612
2	1	BACK PANEL 6.12X4.75	B-LINE	/
3	28	TERMINAL BLOCK		

NAMEPLATE SCHEDULE				
ID	SIZE	LETTERING	BACKGROUND	ENGRAVING
				FIRST LINE
N1	3X6	BLACK	WHITE	JUNCTION BOX #3

NO.	REVISION	DATE	BY	PM	APP
2	AS-BUILT	11/15/23	SV	JS	BG

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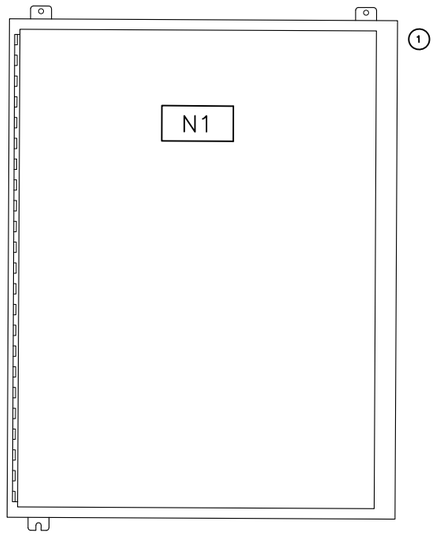
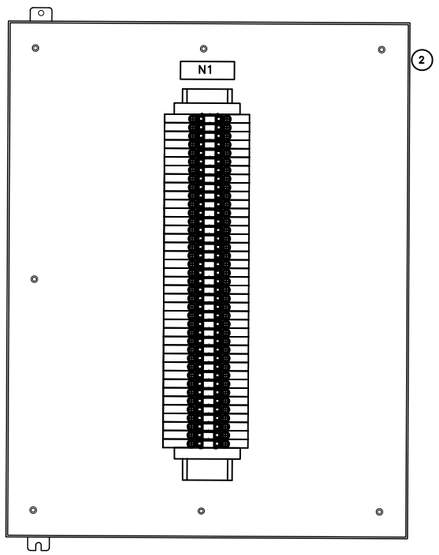
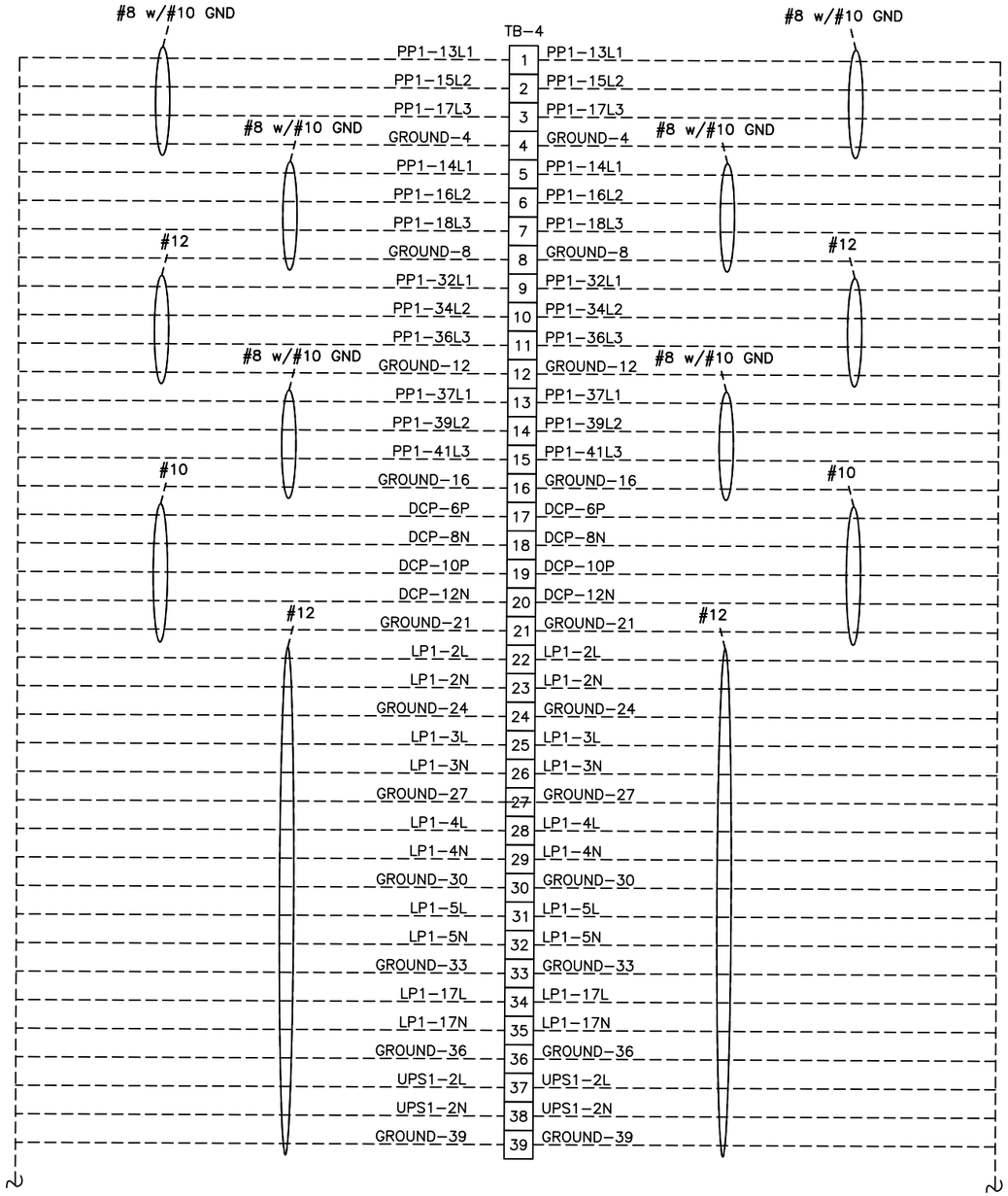
JUNCTION BOX 3
NEW ORLEANS SEWERAGE & WATER BOARD
W21-109-TP STATIC FREQUENCY CONVERTER -1 BLDG
(96'X26'X14'-6" PCD BUILDING)
P.O. NO.#: W21-109-TP-2030

SCALE: FOR REF. ONLY	PROJ. MGR.	DESIGN BY	DWG. NO.	SHEET
NONE	JS	JAL	R50620-01	JB-3





JUNCTION BOX #4



TO BLD WIREWAY

TO BE DISCONNECTED AND ROLLED BACK FOR SHIPPING

TO BLD WIREWAY

TO BE DISCONNECTED AND ROLLED BACK FOR SHIPPING

BILL OF MATERIAL

ITEM	QTY.	DESCRIPTION	MANUFACTURER	MODEL #
1	1	ENCLOSURE NEMA 20"HX16"WX6"L HINGED COVER	B-LINE	2016612
2	1	BACK PANEL 6.12X4.75	B-LINE	/
3	39	TERMINAL BLOCK		

NAMEPLATE SCHEDULE

ID	SIZE	LETTERING	BACKGROUND	ENGRAVING
				FIRST LINE
N1	3X6	BLACK	WHITE	JUNCTION BOX #4

NO.	REVISION	DATE	BY	PM	APP
2	AS-BUILT	11/15/23	SV	JS	BG

POINT 8 POWER
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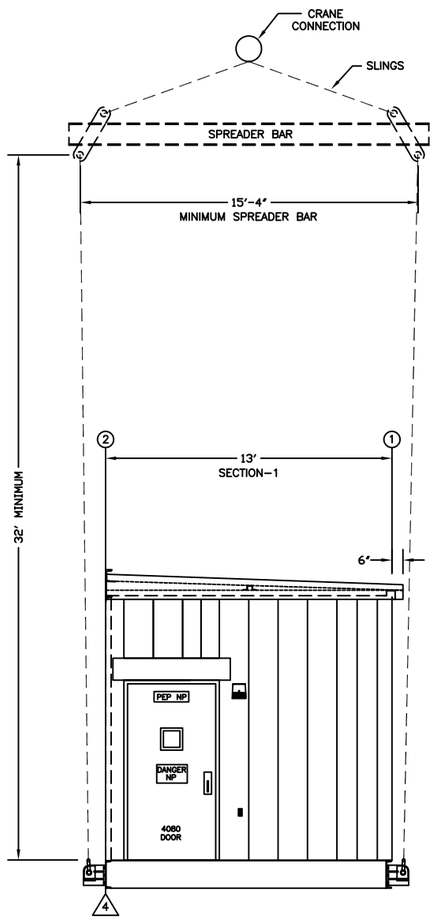
JUNCTION BOX 4
NEW ORLEANS SEWERAGE & WATER BOARD
W21-109-TP STATIC FREQUENCY CONVERTER -1 BLDG
(96'X26'X14'-6' PCD BUILDING)
P.O. NO.#: W21-109-TP-2030

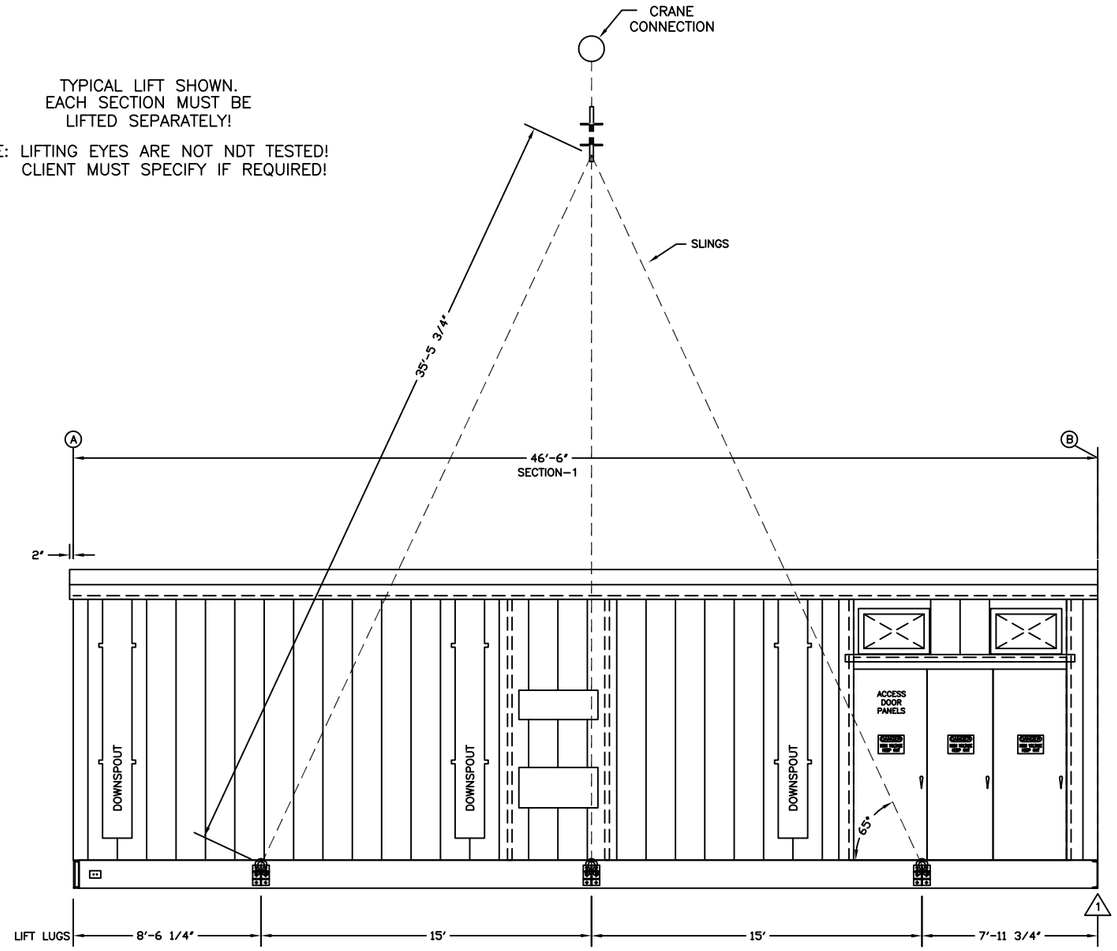
SCALE: FOR REF. ONLY	PROJ. MGR.	DESIGN BY	DWG. NO.	SHEET
NONE	JS	JAL	R50620-01	JB-4

SECT.–1 ESTIMATED SHIPPING WEIGHT: 81,783 LBS
SECT.–1 ESTIMATED TOTAL OUTFITTED WEIGHT: 83,383 LBS
ESTIMATED TOTAL BUILDING WEIGHT AT SITE: 346,902 LBS, (ALL BLDG SECTIONS).
NOTE: THE TOTAL BUILDING WEIGHT INCLUDES ALL EQUIPMENT REMOVED FOR SHIPMENT AND REINSTALLED AT SITE, I.E. HVAC UNITS, ETC...



TYPICAL LIFT SHOWN.
EACH SECTION MUST BE LIFTED SEPARATELY!

NOTE: LIFTING EYES ARE NOT NDT TESTED!
CLIENT MUST SPECIFY IF REQUIRED!



LIFTING DETAIL NOTES:
1– THIS DRAWING IS FOR ILLUSTRATION PURPOSES ONLY.
2– EACH SHIPPING SECTION MUST BE LIFTED SEPARATELY!
3– SIZING AND SUPPLY OF SPREADER BAR, CABLES AND OTHER LIFTING HARDWARE IS THE RESPONSIBILITY OF OTHERS.
4– SLING ARRANGEMENT SHOULD BE ADJUSTED AS NECESSARY TO ALLOW FOR A LEVEL LIFT.
5– SLING ARRANGEMENT SHOULD BE ADJUSTED SO THAT THE CABLES ARE NOT LESS THAN 65° TO BASE.
6– HVAC UNITS, DRIP–SHIELDS, CANOPIES, ETC... MUST BE REMOVED FOR SHIPMENT WHERE APPLICABLE TO PREVENT DAMAGE FROM SLINGS. REINSTALLATION IS THE RESPONSIBILITIES OF OTHERS.
7– WEIGHTS ARE PRELIMINARY PENDING FINAL STRUCTURAL CALCULATIONS.
8– REFERENCE PEP 15B STD LUG DETAIL DRAWING.

SUGGESTED LIFT PLAN SECTION–1

NO.	REVISION	DATE	BY	PM	APP
A	AS-BUILT	11/17/23	SV	JS	GC
3	RE-ISSUED FOR CONSTRUCTION	09/28/22	JWS	JS	DDB
2A	RE-ISSUED FOR CONSTRUCTION	05/24/22	JWS	JS	DDB
1	ISSUED FOR CONSTRUCTION	01/20/22	JWS	JS	CG
0B	RE-ISSUED FOR APPROVAL	11/12/21	JWS	JS	CG
0A	ISSUED FOR APPROVAL	09/15/21	JWS	JS	KS

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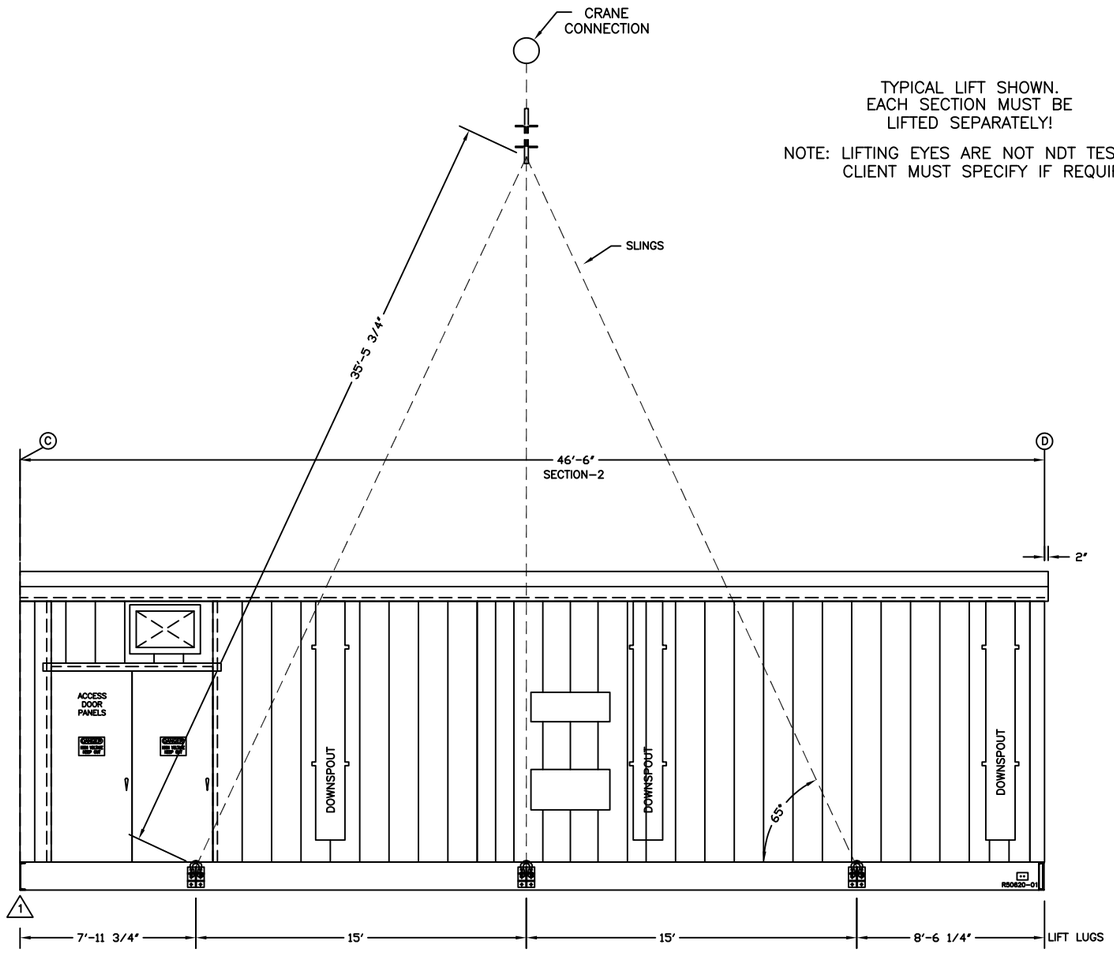
SUGGESTED LIFT PLAN SECTION–1
NEW ORLEANS SEWERAGE & WATER BOARD
W21-109-TP STATIC FREQUENCY CONVERTER -1 BLDG.
(93'X26'X12' PCD BUILDING)
P.O. NO.#: W21-109-TP-2030

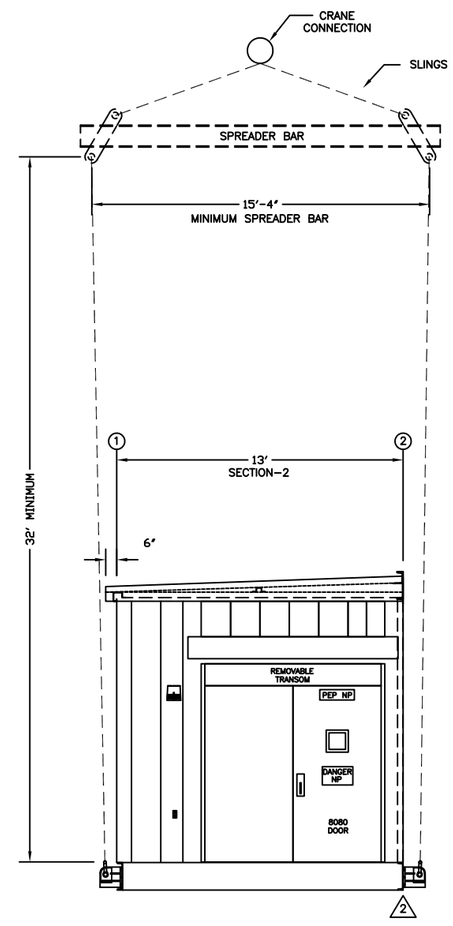
SCALE: FOR REF. ONLY	PROJ. MGR.	DESIGN BY	DWG. NO.	SHEET
5/16"=1'-0"	JS	JWS	R50620-01	LIFT-1

SECT.–2 ESTIMATED SHIPPING WEIGHT: 56,978 LBS
SECT.–2 ESTIMATED TOTAL OUTFITTED WEIGHT: 58,138 LBS
ESTIMATED TOTAL BUILDING WEIGHT AT SITE: 346,902 LBS, (ALL BLDG SECTIONS).
NOTE: THE TOTAL BUILDING WEIGHT INCLUDES ALL EQUIPMENT REMOVED FOR SHIPMENT AND REINSTALLED AT SITE, I.E. HVAC UNITS, ETC...



TYPICAL LIFT SHOWN.
EACH SECTION MUST BE LIFTED SEPARATELY!

NOTE: LIFTING EYES ARE NOT NDT TESTED!
CLIENT MUST SPECIFY IF REQUIRED!



LIFTING DETAIL NOTES:
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2– EACH SHIPPING SECTION MUST BE LIFTED SEPARATELY!
3– SIZING AND SUPPLY OF SPREADER BAR, CABLES AND OTHER LIFTING HARDWARE IS THE RESPONSIBILITY OF OTHERS.
4– SLING ARRANGEMENT SHOULD BE ADJUSTED AS NECESSARY TO ALLOW FOR A LEVEL LIFT.
5– SLING ARRANGEMENT SHOULD BE ADJUSTED SO THAT THE CABLES ARE NOT LESS THAN 65° TO BASE.
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7– WEIGHTS ARE PRELIMINARY PENDING STRUCTURAL CALCULATIONS.
8– REFERENCE PEP 15B STD LUG DETAIL DRAWING.

SUGGESTED LIFT PLAN SECTION–2

NO.	REVISION	DATE	BY	PM	APP
E	AS-BUILT	11/17/23	SV	JS	GC
DB	RE-ISSUED FOR CONSTRUCTION	09/28/22	JWS	JS	DDB
DA	RE-ISSUED FOR CONSTRUCTION	05/24/22	JWS	JS	DDB
1	ISSUED FOR CONSTRUCTION	01/20/22	JWS	JS	CG
DB	RE-ISSUED FOR APPROVAL	11/12/21	JWS	JS	CG
DA	ISSUED FOR APPROVAL	09/15/21	JWS	JS	KS

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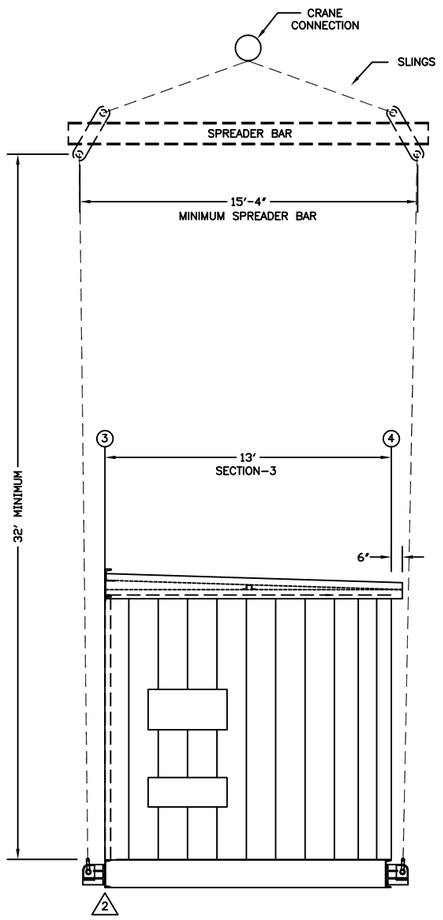
SUGGESTED LIFT PLAN SECTION–2
NEW ORLEANS SEWERAGE & WATER BOARD
W21–109–TP STATIC FREQUENCY CONVERTER –1 BLDG.
(93'X26'X12' PCD BUILDING)
P.O. NO.#: W21–109–TP–2030

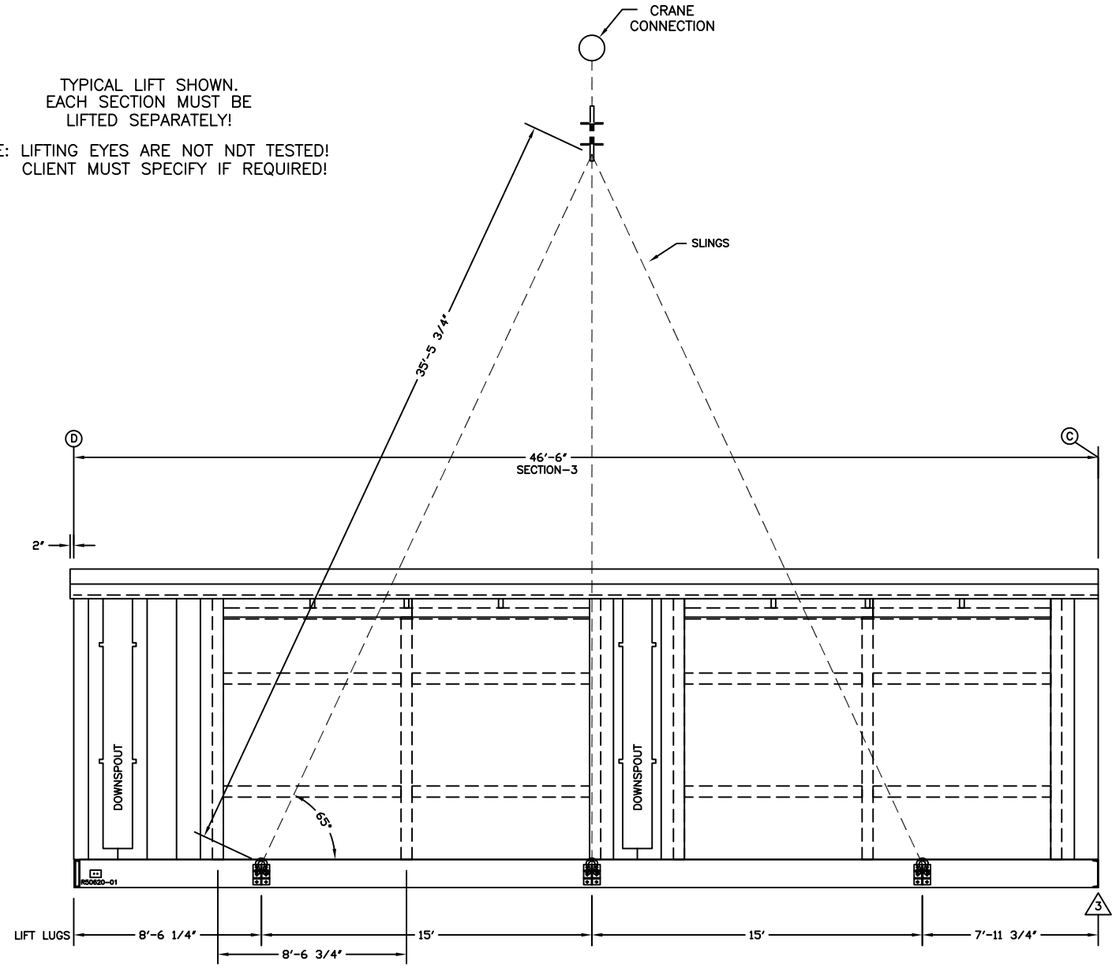
SCALE: FOR REF. ONLY	PROJ. MGR.	DESIGN BY	DWG. NO.	SHEET
5/16"=1'-0"	JS	JWS	R50620–01	LIFT–2

SECT.–3 ESTIMATED SHIPPING WEIGHT: 81,544 LBS
SECT.–3 ESTIMATED TOTAL OUTFITTED WEIGHT: 100,118 LBS
ESTIMATED TOTAL BUILDING WEIGHT AT SITE: 346,902 LBS, (ALL BLDG SECTIONS).
NOTE: THE TOTAL BUILDING WEIGHT INCLUDES ALL EQUIPMENT REMOVED FOR SHIPMENT AND REINSTALLED AT SITE, I.E. HEX UNITS, HVAC UNITS ETC...



TYPICAL LIFT SHOWN.
EACH SECTION MUST BE LIFTED SEPARATELY!

NOTE: LIFTING EYES ARE NOT NDT TESTED!
CLIENT MUST SPECIFY IF REQUIRED!



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SUGGESTED LIFT PLAN SECTION–3

NO.	REVISION	DATE	BY	PM	APP
A	AS-BUILT	11/17/23	SV	JS	GC
3	RE-ISSUED FOR CONSTRUCTION	09/28/22	JWS	JS	DDB
2	RE-ISSUED FOR CONSTRUCTION	05/24/22	JWS	JS	DDB
1	ISSUED FOR CONSTRUCTION	01/20/22	JWS	JS	CG
0B	RE-ISSUED FOR APPROVAL	11/12/21	JWS	JS	CG
0A	ISSUED FOR APPROVAL	09/15/21	JWS	JS	KS

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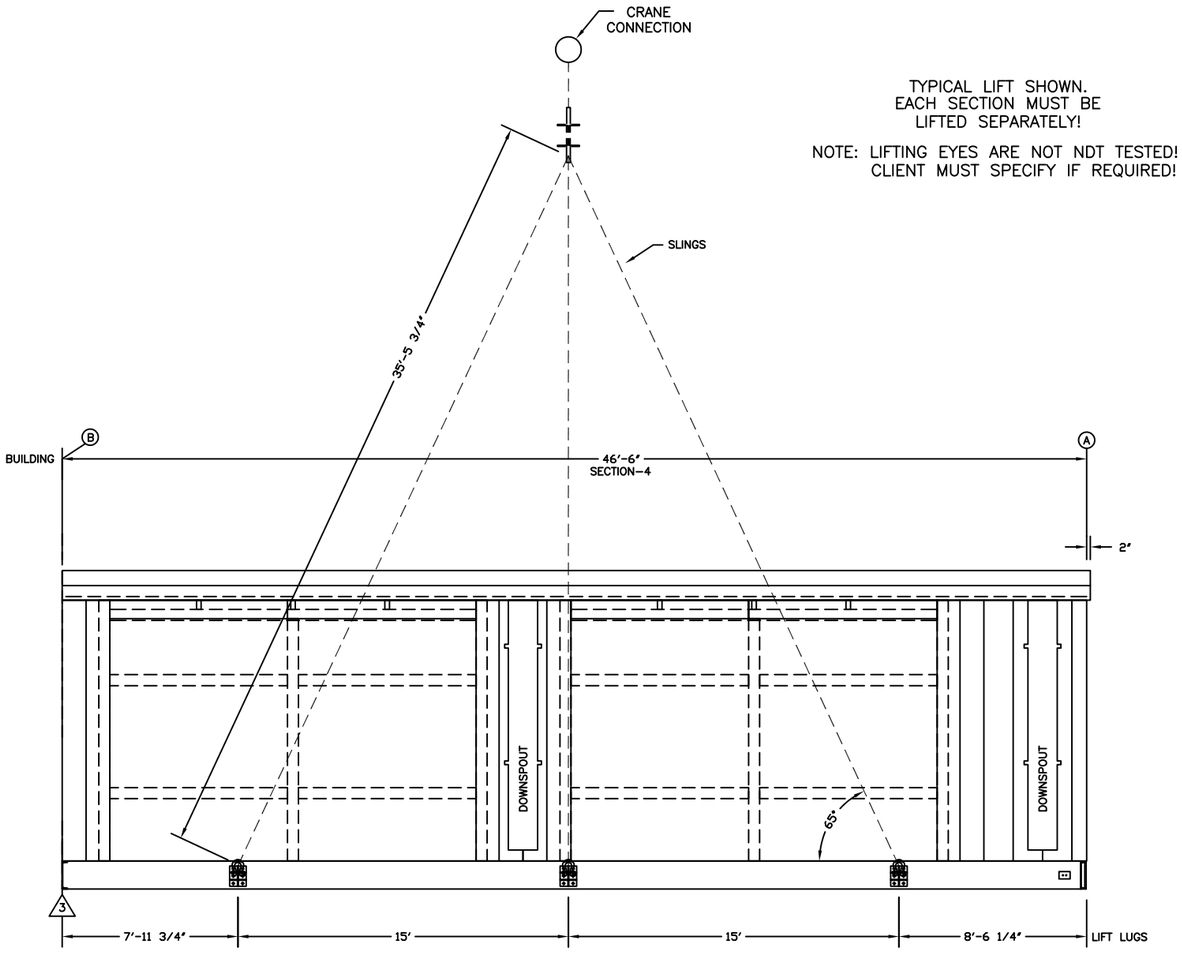
SUGGESTED LIFT PLAN SECTION–3
NEW ORLEANS SEWERAGE & WATER BOARD
W21-109-TP STATIC FREQUENCY CONVERTER -1 BLDG.
(93'X26'X12' PCD BUILDING)
P.O. NO.#: W21-109-TP-2030

SCALE: FOR REF. ONLY	PROJ. MGR.	DESIGN BY	DWG. NO.	SHEET
5/16"=1'-0"	JS	JWS	R50620-01	LIFT-3

SECT.–4 ESTIMATED SHIPPING WEIGHT: 85,055 LBS
SECT.–4 ESTIMATED TOTAL OUTFITTED WEIGHT: 103,629 LBS
ESTIMATED TOTAL BUILDING WEIGHT AT SITE: 346,902 LBS, (ALL BLDG SECTIONS).
NOTE: THE TOTAL BUILDING WEIGHT INCLUDES ALL EQUIPMENT REMOVED FOR SHIPMENT AND REINSTALLED AT SITE, I.E. HEX UNITS, HVAC UNITS ETC...



TYPICAL LIFT SHOWN.
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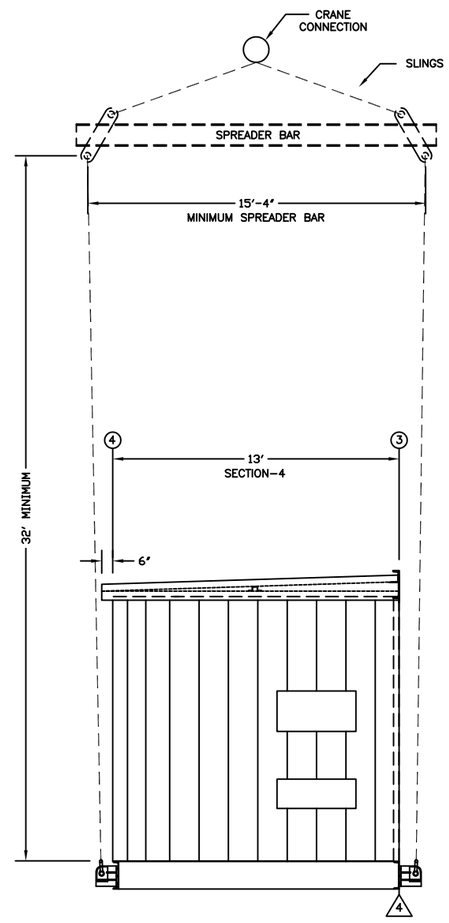

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8– REFERENCE PEP 15B STD LUG DETAIL DRAWING.

SUGGESTED LIFT PLAN SECTION–4

NO.	REVISION	DATE	BY	PM	APP
A	AS-BUILT	11/17/23	SV	JS	GC
3	RE-ISSUED FOR CONSTRUCTION	09/28/22	JWS	JS	DDB
2	RE-ISSUED FOR CONSTRUCTION	05/24/22	JWS	JS	DDB
1	ISSUED FOR CONSTRUCTION	01/20/22	JWS	JS	CG
0A	RE-ISSUED FOR APPROVAL	11/12/21	JWS	JS	CG
0	ISSUED FOR APPROVAL	09/15/21	JWS	JS	KS

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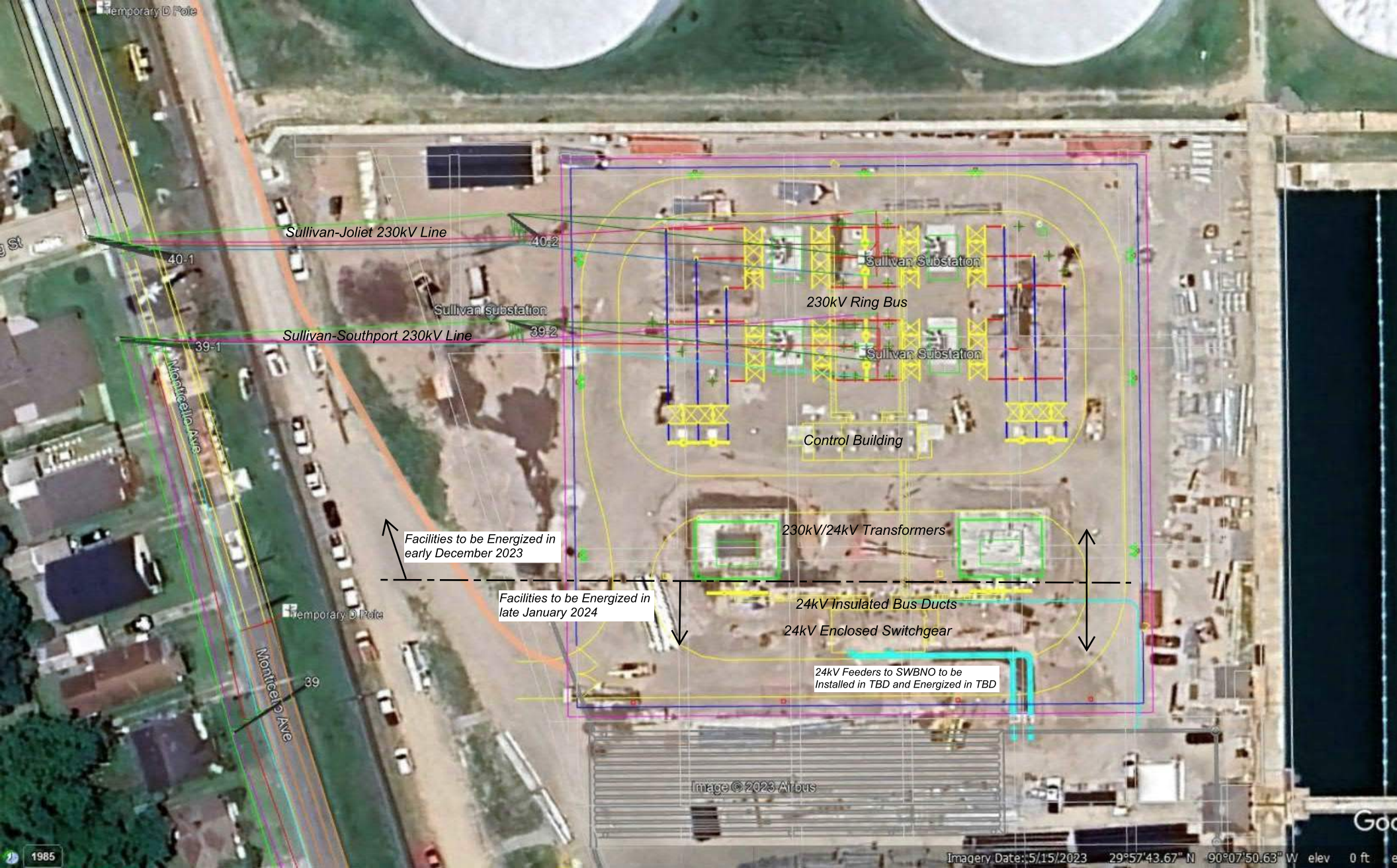
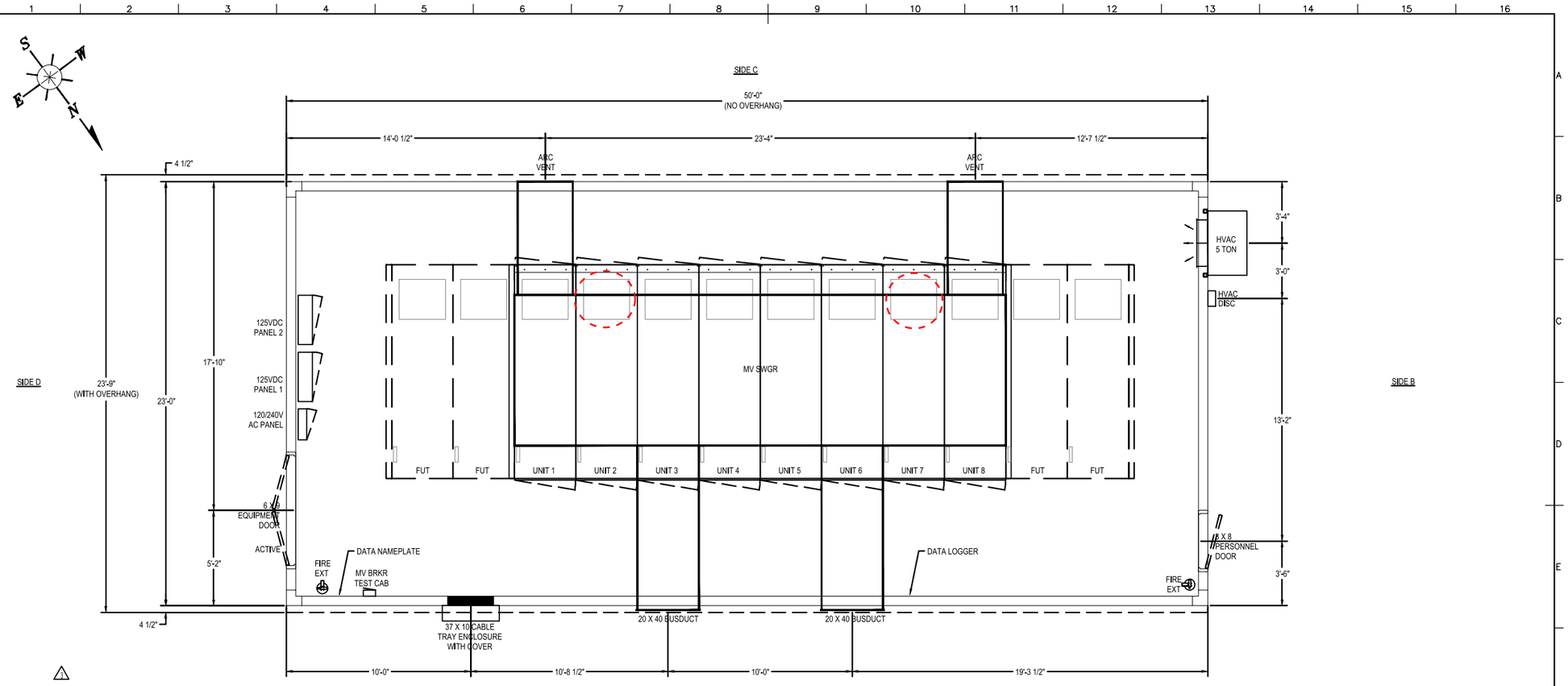
SUGGESTED LIFT PLAN SECTION–4
NEW ORLEANS SEWERAGE & WATER BOARD
W21–109–TP STATIC FREQUENCY CONVERTER –1 BLDG.
(93'X26'X12' PCD BUILDING)
P.O. NO.#: W21–109–TP–2030

SCALE: FOR REF. ONLY	PROJ. MGR.	DESIGN BY	DWG. NO.	SHEET
5/16"=1'-0"	JS	JWS	R50620–01	LIFT–4


Temporary D Pole
Sullivan-Joliet 230kV Line
40-2
40-1
Sullivan substation
Sullivan-Southport 230kV Line
39-2
39-1
Montecello Ave
Sullivan Substation
230kV Ring Bus
Sullivan Substation
Control Building
230kV/24kV Transformers
Facilities to be Energized in early December 2023
Facilities to be Energized in late January 2024
24kV Insulated Bus Ducts
24kV Enclosed Switchgear
24kV Feeders to SWBNO to be Installed in TBD and Energized in TBD
Temporary D Pole
Montecello Ave
39
Image © 2023 Airbus
1985
Imagery Date: 5/15/2023 29°57'43.67" N 90°07'50.63" W elev 0 ft



SIDE A

PCR LAYOUT

Section 1					
Shipping Weights			Center of Gravity (ft)		
			X	Y	Z
PCR Weight	68,700	lbs	24.6	11.3	6.5
Factory Installed Equipment	48,600	lbs	25.6	12.8	6.5
Shipping Supports & Crating	0	lbs	0.0	0.0	1.5
Total Shipping Weight	**117,300**	**lbs**	**25' 0"**	**11' 11"**	**6' 6"**
Overall Shipping Height	**15' 0"**				
Breakers Shipping Loose:	**Upper**	**@ 600lbs ea**		**Total Wt.**	
(w eight subtracted from total shipping w eight above)	**Lower**	**@ 600lbs ea**		**0 lbs**	
Installed Weights			Center of Gravity (ft)		
			X	Y	Z
PCR Weight	68,700	lbs	24.6	11.3	6.5
Factory Installed Equipment	48,600	lbs	25.6	12.8	6.5
Field Installed Equipment	28,900	lbs	25.6	12.6	6.8
Maximum Installed Weight	**146,200**	**lbs**	**25' 2"**	**12' 0"**	**6' 6"**

Notes: X & Y values from bottom left corner of section (+X right, +Y up)
Z values from bottom of base girder - Weights are estimates

Updated 02/22/23

NOTES

SCALE 1" 3" 1" 0 FEET

ASSOCIATED EQUIPMENT

	W.O.# 250815-01	POWER CONTROL ROOM
*	W.O.# 250815-02	STAIRS & LANDINGS (GRIMES)
	W.O.# 250815-03	38KV SWGR
	W.O.# 250815-04/05/06	OUTDOOR BUSDUCT & SUPPORTS (DUB/EDN)
	W.O.# 250815-17	INDOOR BUSDUCT

* DESIGNATES BUYOUT

CROSS REFERENCE

REFERENCE No.

POWELL Powered by Safety

Powell Electrical Systems, Inc.
8550 Mosley Road
Houston, Texas 77075-1180
Tel:713.944.6900 Fax:713.947.4453

P.O. No. GPC1024545

CUSTOMER NAME, PROJECT NAME & LOCATION
ENTERGY
NOLA SEWAGE & WATER BOARD
NEW ORLEANS, LA

DRAWING DESCRIPTION: PCR LAYOUT

RATING, EQUIPMENT TYPE & I.D: POWER CONTROL ROOM

REVISION DESCRIPTION			DRAWN BY	DATE DRAWN	DWG, No.
UPDATE WEIGHT SHEET					
REV. BY	REV. DATE	REV. NO			
DORY.FOY	22-FEB-2023	03	DORY.FOY	22-SEP-2022	2508150100001

VENDOR REFERENCE DRAWINGS:

SWGR BLDG-EQUIPMENT LAYOUT	L0687VS70
SWGR BLDG-UTILITY LAYOUT	L0687VS71
SWGR BLDG-GROUNDING LAYOUT	L0687VS72
SWGR BLDG-FLOOR CUTOUTS	L0687VS73
SWGR BLDG-BASE LAYOUT	L0687VS74
SWGR BLDG-ELEVATIONS	L0687VS75
SWGR BLDG-CABLE TRAY LAYOUTS	L0687VS76
SWGR BLDG-120/240 AC PANEL	L0687VS77
SWGR BLDG-125 VDC PANEL-DCP-1	L0687VS78
SWGR BLDG-125 VDC PANEL-DCP-2	L0687VS79

THIS DRAWING APPLIES TO:
24kV SWGR BLDG

ISSUED FOR CONSTRUCTION

BLACK & VEATCH
ENGINEER OF RECORD
FOR PROJECT 413804
TBPE FIRM# F-258
166 CENTURY CT, SUITE 300
COLLEGE STATION, TX 77840

ENTERGY LOUISIANA, INC.

SULLIVAN 230kV SUBSTATION
SWGR BLDG - LAYOUT
VENDOR SUBSTATION DRAWING

JOB NO.: C6PPTSC024 | SCALE: NONE

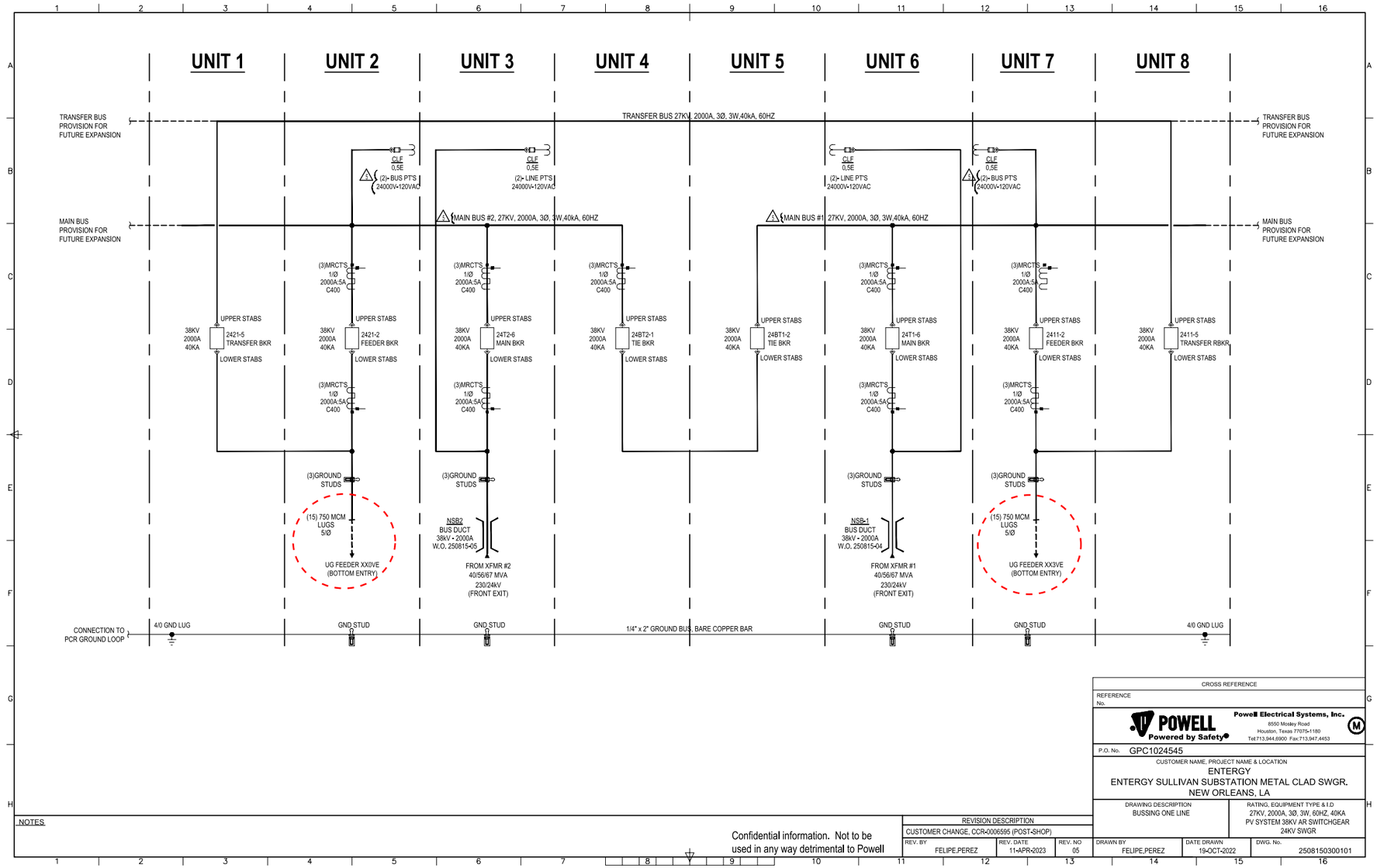
entergy | No. L0687VS69 | PLOT 1=1 | SH. 1 OF 1

REF 2508150100001 REV. 3

THE REGISTRANT OF THE NEWLY APPLIED SEAL DATED 06-23-23 , ONLY ASSUMES RESPONSIBILITY FOR THE CHANGES AS INDICATED BY THE FOLLOWING REVISION(S) 0

NO.	DATE:	REVISION	BY:	CHK:	APPR:
0	06-23-23	BUILD NEW SUBSTATION; C6PPTSC024	AGR	CG	KS

5/17/2023
jbcarma



NOTES

Confidential information. Not to be used in any way detrimental to Powell

REVISION DESCRIPTION			
CUSTOMER CHANGE, CCR-0006595 (POST-SHOP)			
REV. BY	REV. DATE	REV. NO	
FELIPE.PEREZ	11-APR-2023	05	

CROSS REFERENCE

REFERENCE No.

POWELL Powered by Safety

Powell Electrical Systems, Inc.
8550 Mosley Road
Houston, Texas 77075-1180
Tel:713.944.6900 Fax:713.947.4453

P.O. No. GPC1024545

CUSTOMER NAME, PROJECT NAME & LOCATION
ENTERGY
ENTERGY SULLIVAN SUBSTATION METAL CLAD SWGR.
NEW ORLEANS, LA

DRAWING DESCRIPTION	RATING, EQUIPMENT TYPE & I.D
BUSSING ONE LINE	27KV, 2000A, 3Ø, 3W, 60HZ, 40KA PV SYSTEM 38KV AR SWITCHGEAR 24KV SWGR

DRAWN BY	DATE DRAWN	DWG. No.
FELIPE.PEREZ	19-OCT-2022	2508150300101

NOT TO BE USED FOR CONSTRUCTION

THE DISTRIBUTION AND USE OF THE NATIVE FORMAT CAD FILE OF THIS DRAWING IS UNCONTROLLED. THE USER SHALL VERIFY TRACEABILITY OF THIS DRAWING TO THE LATEST CONTROLLED VERSION.

THE REGISTRANT OF THE NEWLY APPLIED SEAL DATED 11/29/22 , ONLY ASSUMES RESPONSIBILITY FOR THE CHANGES AS INDICATED BY THE FOLLOWING REVISION(S) 0

ISSUED FOR REFERENCE

BLACK & VEATCH

ENGINEER OF RECORD FOR PROJECT 413854 TBPE FIRM# F-258 166 CENTURY CT, SUITE 300 COLLEGE STATION, TX 77840

NO.	DATE	REVISION	BY	CHK	APPR
0	11-29-22	BUILD NEW SUBSTATION; C6PPTSC024	KN	SK	KS

ENTERGY LOUISIANA, INC.

SULLIVAN 230kV SUBSTATION
27kV METAL CLAD SWGR – BUSSING ONE LINE
VENDOR PROTECTION DRAWING

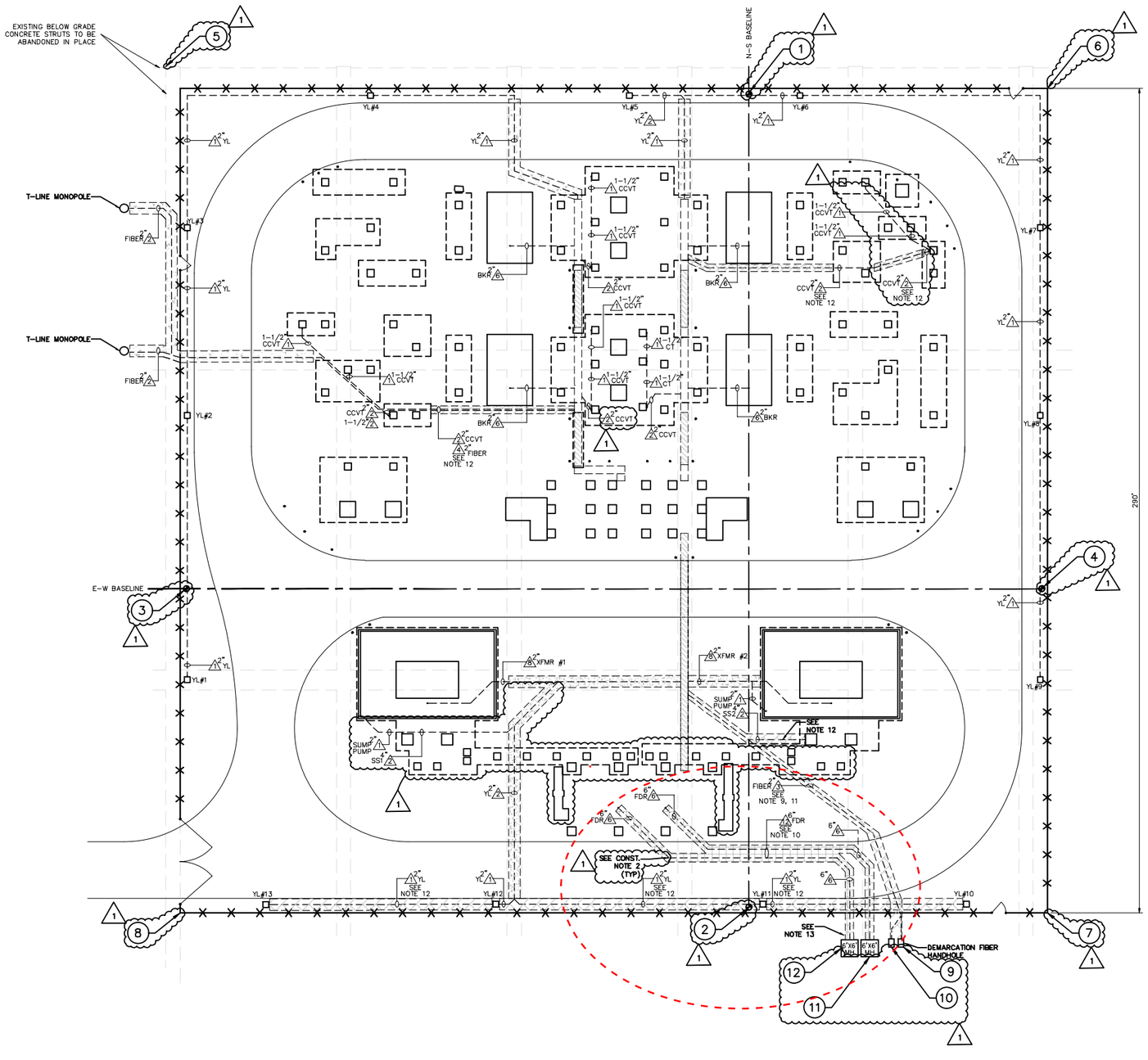
JOB NO.: C6PPTSC024 | SCALE: NONE

entergy | No. L0687VP35 | PLOT 1=1 | SH. 1 OF 54

REF 2508150300101

jsierra 5/4/2023

COORDINATE TABLE (CENTER OF EQUIP.)		
CALL OUT	NORTHING	EASTING
1 (BM1)	533527.32	3661597.90
2 (BM2)	533739.08	3661790.13
3 (BM3)	533743.10	3661526.71
4 (BM4)	533540.91	3661749.42
5 (N CORNER)	533874.95	3661643.44
6 (E CORNER)	533669.95	3661869.27
7 (S CORNER)	533455.23	3661674.34
8 (W CORNER)	533673.64	3661460.52
9 (FIBER HANDHOLE #1)	533481.93	3661629.11
10 (FIBER HANDHOLE #1)	533484.17	3661626.65
11 (FDR 2421 MANHOLE)	533487.97	3661619.74
12 (FDR 2411 MANHOLE)	533492.68	3661619.74



CONSTRUCTION NOTES:

1. FIELD TO INSTALL ALL TRANSITIONS FROM BELOW GRADE SCH 40 PVC TO ABOVE GRADE FLEX AS CLOSE AS POSSIBLE TO FINAL GRADE (OR TOP OF FOUNDATION). SEE ENTERGY STANDARD DRAWING SMCD01A0 FOR TRANSITION DETAILS.
2. FIELD TO INSTALL LARGE RADIUS 45° AND 90° ELBOW CONNECTORS ALONG FEEDER CONDUIT RUNS TO FACILITATE CABLE PULLING.

LEGEND:

- PERIMETER FENCE
- PVC SCH. 40 CONDUIT
- 30"x15" PEDESTRIAN RATED TRENCH
- 30"x16" HS20 DRIVE RATED TRENCH
- 3" CONCRETE ENCASEMENT
- 3" CONCRETE ENCASEMENT – REINFORCED
- 6" CONCRETE ENCASEMENT – REINFORCED (DUCT BANK)
- TRAFFIC BOLLARD – ENTERGY STD SEFD02A0
- QUANTITY OF NOTED CONDUIT

NOTES:

1. INSTALL (1) NYLON PULL STRING PER EACH CONDUIT RUN. NEATLY COIL 3'–0" LONG OF PULL WIRE AT BOTH ENDS OF CONDUIT. CONDUIT ENDS SHALL BE REAMED AFTER CUTTING.
2. CONDUIT SHALL BE CONCRETE ENCASED UNDER ROADWAYS AS INDICATED PER ENTERGY STANDARD SL0205, AND STANDARD DRAWINGS SMCD01A0–SMCD04A0.
3. MINIMUM CONDUIT BURIAL DEPTH IS 18" BELOW FINISHED GRADE TO TOP OF CONDUIT (PRIOR TO INSTALLATION OF 6" CRUSHED ROCK).
4. IN–GROUND CONDUITS SHALL BE STUBBED UP 6" ABOVE FINISHED GRADE (TOP OF 6" CRUSHED ROCK).
5. FOR CONDUIT DETAILS SEE STANDARD DRAWING SMCD01A0–SMCD04A0, SMFD09A0.
6. ALL PVC CONDUIT SHALL BE PURCHASED AND INSTALLED PER ENTERGY STANDARD NUMBER SL0205.
7. ALL SPARE CONDUITS TO BE CAPPED (NOT GLUED).
8. NEW CONDUIT ROUTINGS ARE SHOWN DIAGRAMMATICALLY, IF CONDITIONS DICTATE, CONTRACTOR MAY CHANGE ROUTING WITH ENGINEERS APPROVAL.
9. ADSS FIBER CABLE TO BE RUN INSIDE 1.5" HDPE ORANGE INNER DUCT WHEN RUN IN CONDUIT, CABLE TRENCH SECTIONS AND IN CABLE TRAYS INSIDE THE CONTROL ENCLOSURE.
10. SEE DETAIL 1, DWG. L0687C01 FOR REINFORCED UNDERGROUND FEEDER DUCT BANK DETAIL.
11. SEE DETAIL 2, DWG. L0687C01 FOR ADSS REINFORCED CONDUIT ENCASEMENT DETAIL.
12. SEE DETAIL 3, DWG. L0687C01 FOR TYPICAL REINFORCED CONDUIT ENCASEMENT DETAIL.
13. SEE DETAIL 4, DWG. L0687C01 FOR MANHOLE CONDUIT TERMINATION ARRANGEMENT DETAIL.

REFERENCE DRAWINGS:

ELECTRICAL ARRANGEMENT	L0687EA1
PRECAST CABLE TRENCH LAYOUT	L0687CL2
REINFORCED DUCT BANK CONDUIT DETAILS	L0687C01
FOUNDATION PLAN	L0687FP1
PILING PLAN	L0687PP1
STANDARD DRAWING, PVC CONDUIT DETAILS 1–5	SMCD01A0
STANDARD DRAWING, PVC CONDUIT, PULL–BOX, TROUGH & DUCTBANK	SMCD02A0
STANDARD DRAWING, TYPICAL FIBER INSTALLATIONS	SMCD03A0
STANDARD DRAWING, TYPICAL CABLE TROUGH CONDUIT DETAILS	SMCD04A0

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KYLE G SHIPPS
License No. 44400
PROFESSIONAL ENGINEER
26/May/2023
License Expires: 30/Sep/2024

ISSUED FOR CONSTRUCTION

BLACK & VEATCH
ENGINEER OF RECORD
FOR PROJECT 413804
TBPE FIRM# F-258
166 CENTURY CT, SUITE 300
COLLEGE STATION, TX 77840

THE REGISTRANT OF THE NEWLY APPLIED SEAL DATED 05-26-23 , ONLY ASSUMES RESPONSIBILITY FOR THE CHANGES AS INDICATED BY THE FOLLOWING REVISION(S) 1

NO.	DATE:	REVISION	BY:	CHK:	APPR:
1	05–26–23	CONDUIT & INFORMATION UPDATES; C6PPTSC024	AGR	IS	KS
0	03–02–23	BUILD NEW SUBSTATION; C6PPTSC024	AGR	IS	KS

ENTERGY LOUISIANA, INC.

SULLIVAN 230kV SUBSTATION
CONDUIT & LIGHTING PLAN
CONDUIT & LIGHTING PLAN

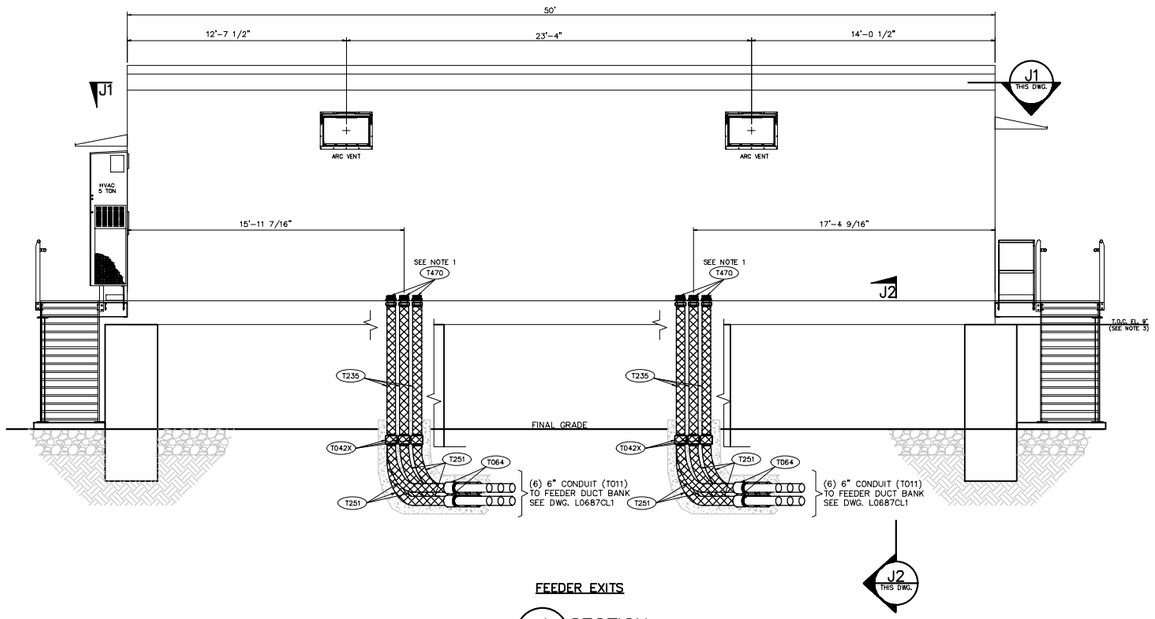
JOB NO.: C6PPTSC024 | SCALE: 1"=20'-0"

entergy | No. L0687CL1 | PLOT 1=240 | SH. 1 OF 1

11/10/2022
jbsarma

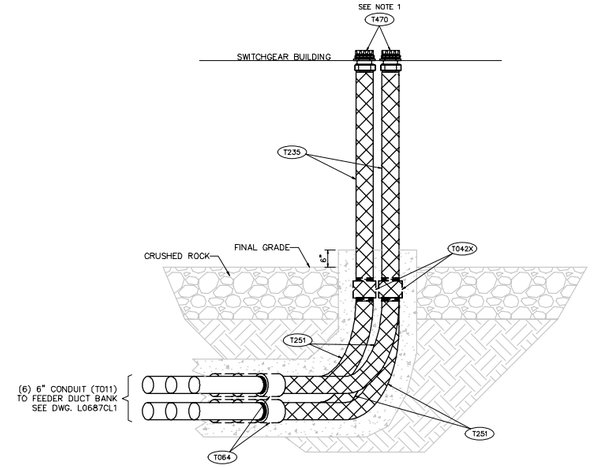
BILL OF MATERIAL (2023 CONSTRUCTION–WO# C6PPTSC024)

MARK NO.	DESCRIPTION
T011	CONDUIT, PVC, 40 SCH, 6", BELLED END
T042X	COUPLING, CONDUIT, GALVANIZED, 6"
T064	ADAPTER, CONDUIT, PVC, 6", FEMALE, SOCKET
T235	CONDUIT, RIGID, INTERMEDIATE, 6", STEEL,GALVANIZED, WITH COUPLING
T251	ELBOW, CONDUIT, STEEL,GALVANIZED, 90 DEG, 6", 36" RADIUS
T470	BUSHING, CONDUIT, RIGID, GALV, INSULATED, THREADLESS, 6"



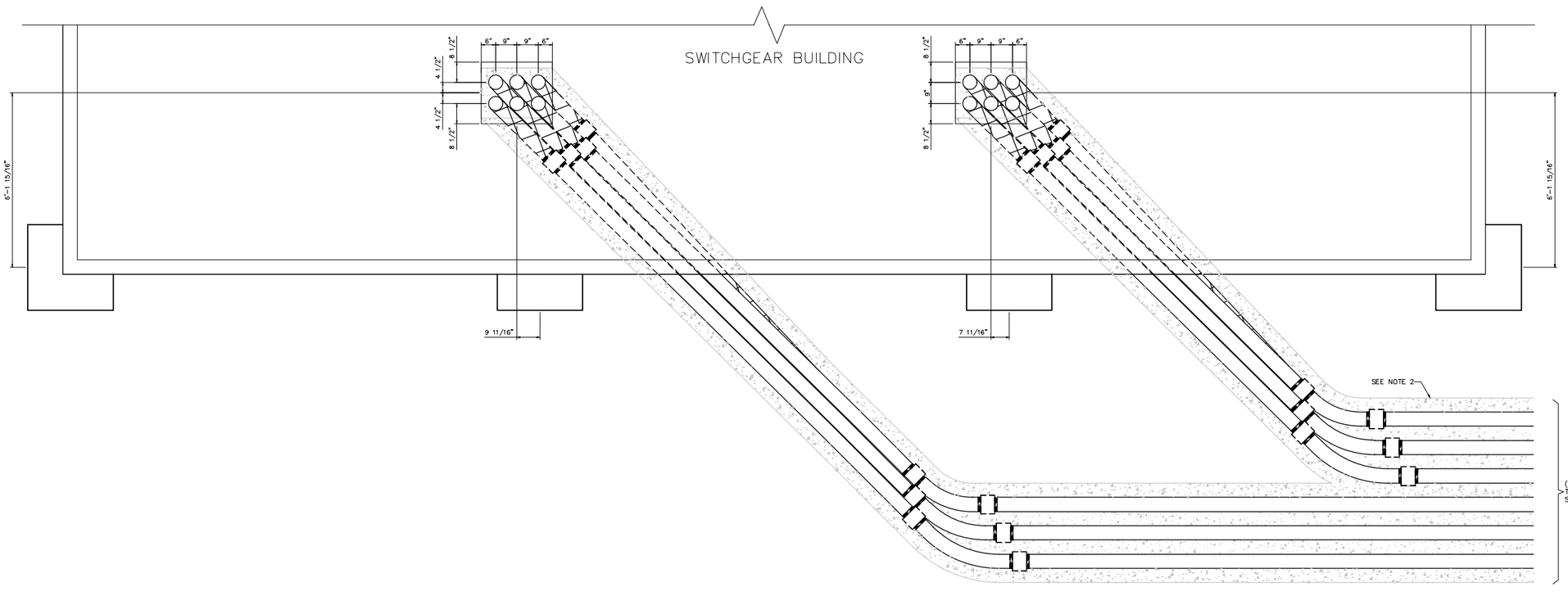
FEEDER EXITS

J SECTION
G0687EA1 SCALE: 1/4"=1'-0"



FEEDER EXITS

J2 SECTION
THIS DWG. SCALE: 1/2"=1'-0"



FEEDER EXITS – PLAN VIEW

J1 SECTION
THIS DWG. SCALE: 1/2"=1'-0"

NOTES:

1. FIELD TO INSTALL 6" GALVANIZED CONDUIT RISERS WITH INSULATED GALVANIZED BUSHINGS IN SWITCHGEAR FLOOR CUTOUT, AS SHOWN.
2. SEE DWG. L0687C01 FOR REINFORCED UNDERGROUND FEEDER DUCT BANK CONDUIT DETAIL.
3. ELEVATIONS BASED ON VERTICAL DATUM NAVD 88 OPUS (2022 GPS DATA). ANY HOIZONTAL COORDINATES SHOWN ARE BASED ON THE LOUISIANA SOUTH STATE PLATE COORDINATE SYSTEM (1702).

REFERENCE DRAWINGS:

ELECTRICAL ARRANGEMENT	L0687EA1
ELECTRICAL BILL OF MATERIAL	L0687BM1–BM2
CONDUIT & LIGHTING PLAN	L0687CL1
GROUNDING PLAN	L0687GP1
GROUND GRID CONNECTIONS GROUNDING DETAIL	L0687G02
REINFORCED DUCT BANK CONDUIT DETAIL	L0687C01
STANDARD GALVANIZED CONDUIT DETAILS	SMCD05A0

VENDOR DRAWINGS:

SWITCHGEAR BUILDING	L0687VS69–VS79

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FOR PROJECT 413804
TBPE FIRM# F-258
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COLLEGE STATION, TX 77840

THE REGISTRANT OF THE NEWLY APPLIED SEAL DATED 06-23-23 , ONLY ASSUMES RESPONSIBILITY FOR THE CHANGES AS INDICATED BY THE FOLLOWING REVISION(S) 0

NO.	DATE:	REVISION	BY:	CHK:	APPR:
0	06-23-23	BUILD NEW SUBSTATION; C6PPTSC024	AGR	CG	KS

ENTERGY LOUISIANA, INC.

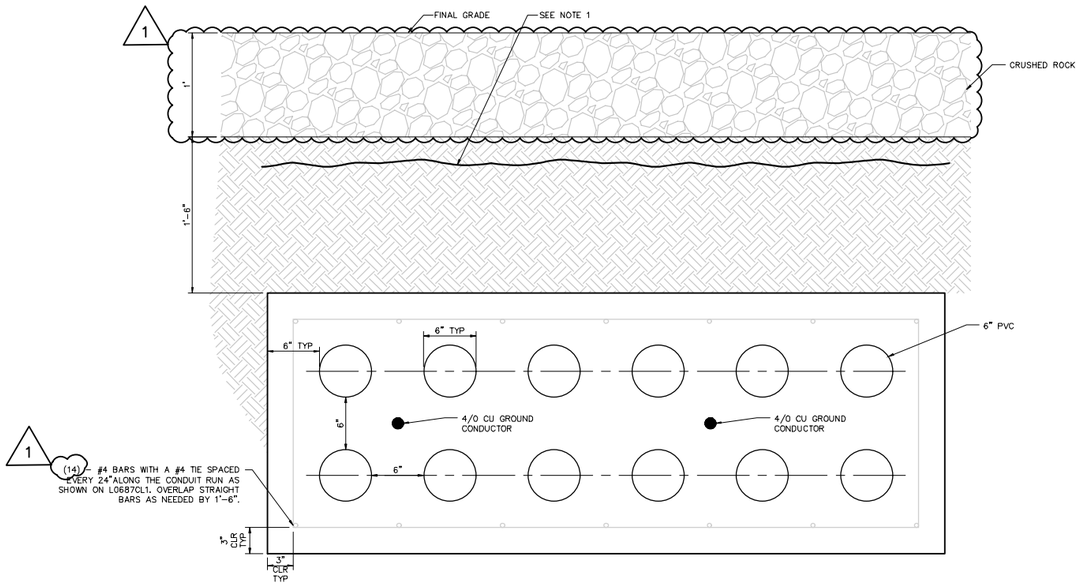
SULLIVAN 230kV SUBSTATION

24kV SWGR BLDG FEEDER EXIT (SECTION J)
ELECTRICAL PROFILE

JOB NO.:C6PPTSC024 | SCALE: 1/4"=1'-0"

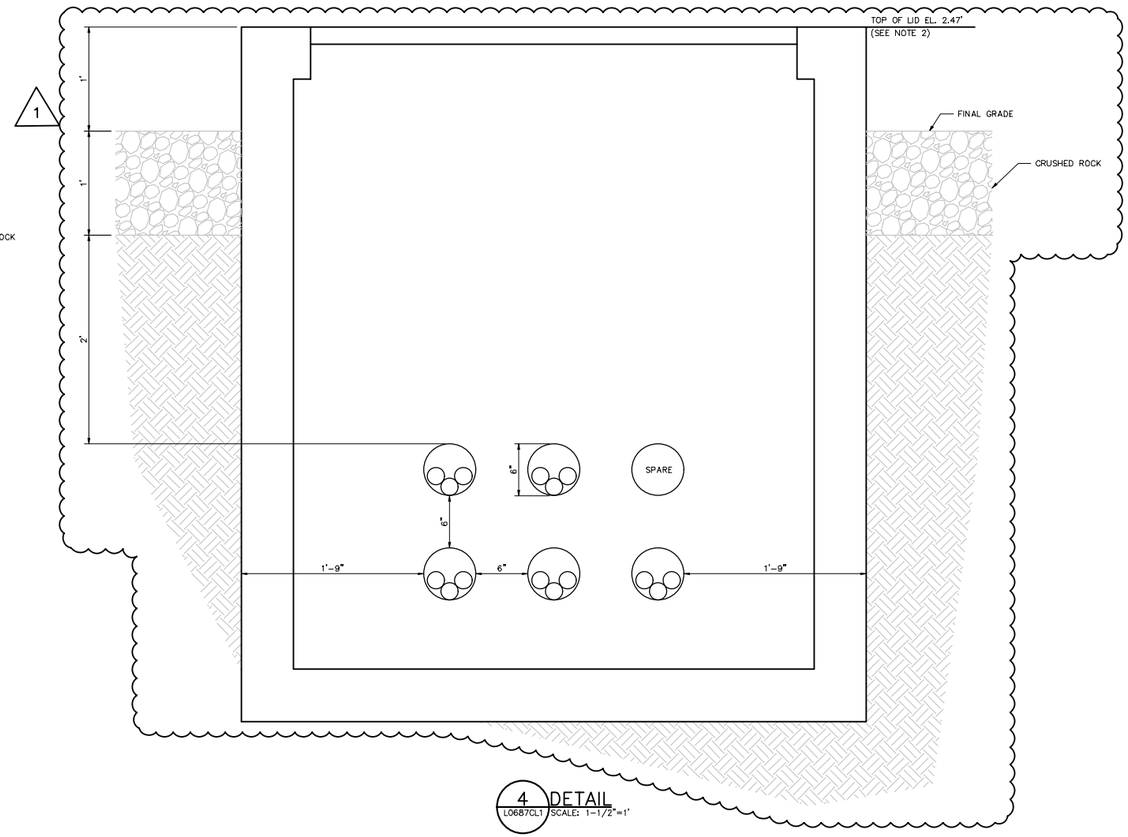
entergy | No. L0687E09 | PLOT 1=48 | SH. 1 OF 1

jbsarma 11/10/2022



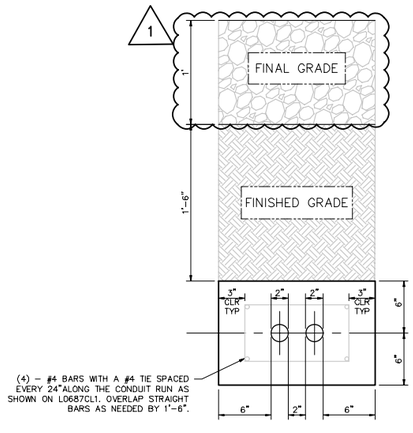
1 DETAIL
L0687CL1 SCALE: 1-1/2"=1'

REINFORCED UNDERGROUND FEEDER DUCT BANK



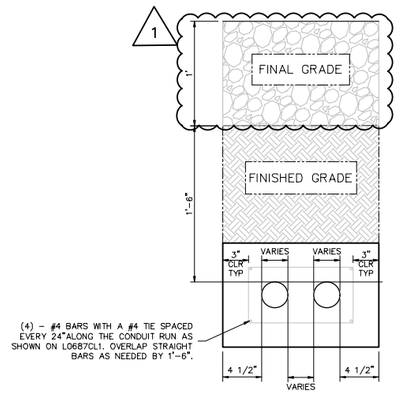
4 DETAIL
L0687CL1 SCALE: 1-1/2"=1'

MANHOLE CONDUIT TERMINATION ARRANGEMENT



2 DETAIL
L0687CL1 SCALE: NTS

TYPICAL ADSS REINFORCED CONDUIT ENCASEMENT



3 DETAIL
L0687CL1 SCALE: NTS

TYPICAL REINFORCED CONDUIT ENCASEMENT

NOTES:

1. A WARNING SIGN, RED RIBBON OR OTHER EFFECTIVE MEANS SUITABLE FOR THE CONDITIONS SHALL BE PLACED ABOVE THE UNDERGROUND INSTALLATION.
2. ELEVATIONS BASED ON VERTICAL DATUM NAVD 88 OPUS (2022 GPS DATA). ANY HOIZONTAL COORDINATES SHOWN ARE BASED ON THE LOUISIANA SOUTH STATE PLATE COORDINATE SYSTEM (1702).

REFERENCE DRAWINGS:

BILL OF MATERIAL	L0687BM1, BM2
CONDUIT & LIGHTING PLAN	L0687CL1
STANDARD DRAWING, PVC CONDUIT, PULL-BOX, TROUGH & DUCTBANK	SMCD02A0
STANDARD DRAWING, TYPICAL FIBER INSTALLATIONS	SMCD03A0

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ENTERGY LOUISIANA, INC.

SULLIVAN 230kV SUBSTATION
REINFORCED DUCT BANK
CONDUIT & LIGHT DETAIL

JOB NO.: C6PPTSC024 | SCALE: 1/2"=1'-0"
No. L0687C01
PLOT 1=24 | SH. 1 OF 1

THE REGISTRANT OF THE NEWLY APPLIED SEAL DATED 05-26-23 , ONLY ASSUMES RESPONSIBILITY FOR THE CHANGES AS INDICATED BY THE FOLLOWING REVISION(S) 1

NO.	DATE:	REVISION	BY:	CHK:	APPR:
1	05-26-23	SITE & MANHOLE UPDATES; C6PPTSC024	AGR	CG	KS
0	03-02-23	BUILD NEW SUBSTATION; C6PPTSC024	AGR	IS	KS

jbarna 5/3/2023


Sullivan Electric #2


DANGER
DANGER


DANGER
DANGER

UNIT 7
FEEDER BREAKER
2411-2

DANGER

HIGH VOLTAGE
KEEP OUT

ARC FLASH AND
SHOCK HAZARD

DEATH or serious
injury will occur.

UNIT 6
MAIN BREAKER
2471-6

DANGER

SAFETY INSTRUCTIONS

Doors and doors must be
CLOSED and SECURED to
maintain Arc Resistant
Rating.

HANDLE OPERATION

OPEN

LATCHED


PANDUIT
C
MM
B
A

C

B

A

C

The above revisions shall be incorporated in and take precedence over any conflicting part of the original proposal documents. This addendum is hereby officially made a part of the referenced proposal.

Receipt of this addendum shall be acknowledged by inserting its number and date in the space provided in the Form of Proposal.

This addendum consists of one hundred and twenty nine (129) pages.

*** END OF ADDENDUM ***