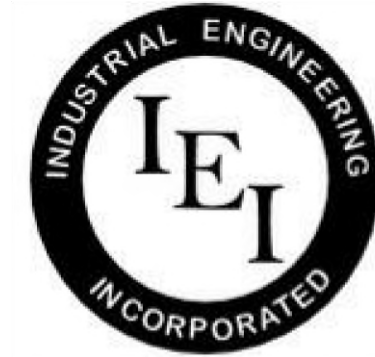


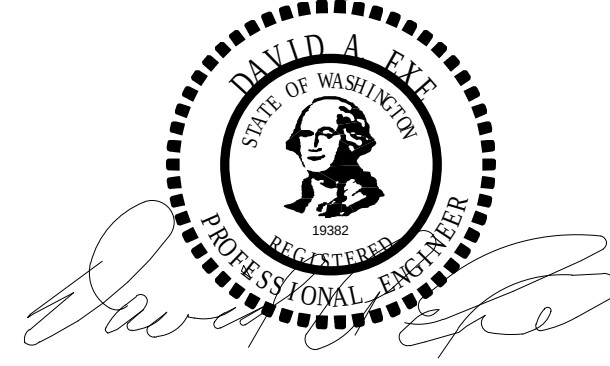


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2	2019.06.18	ASI005 General Elect

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ELECTRICAL PERMIT PLAN SET
ASI 002 2019.5.10

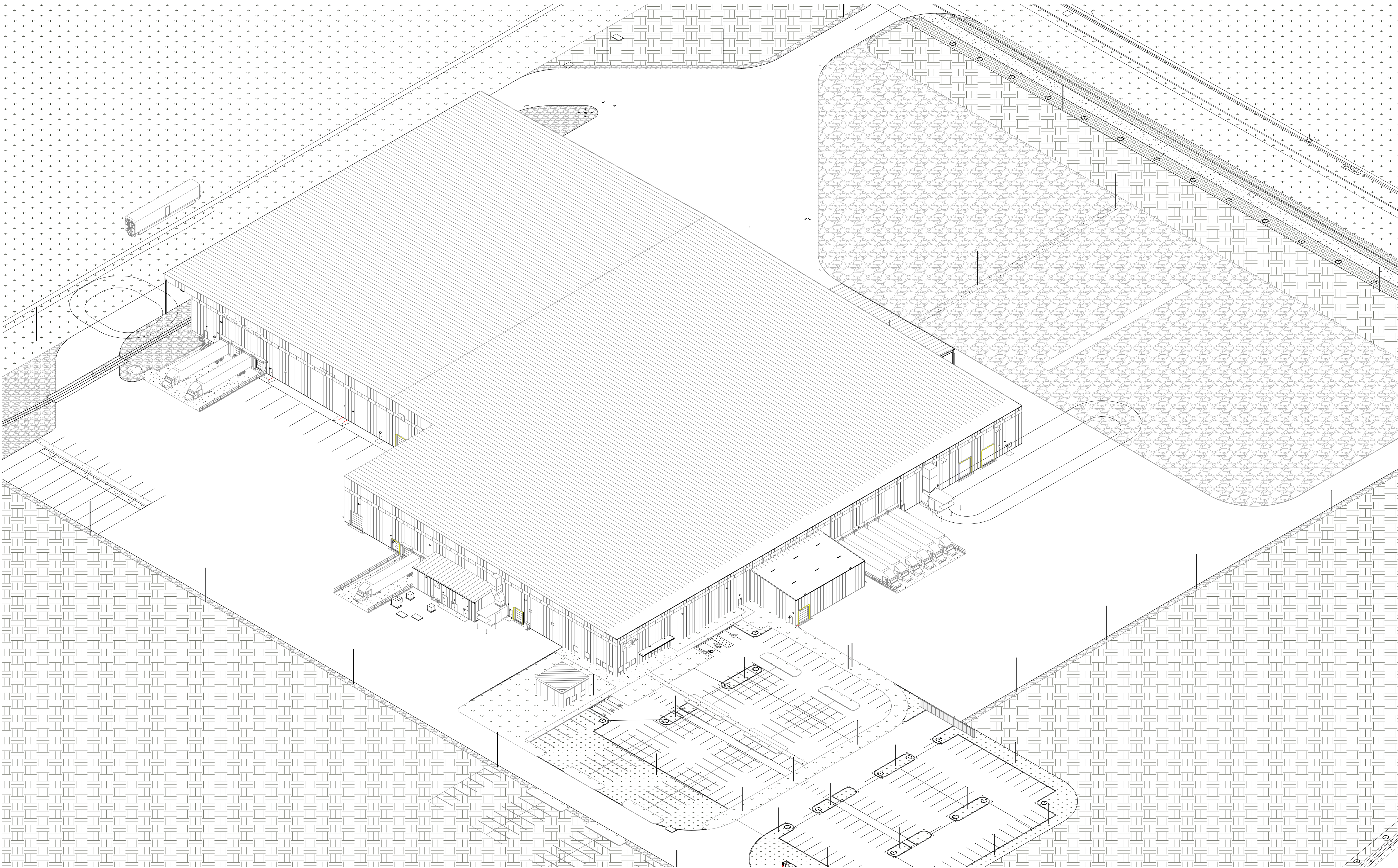
ELECTRICAL CONSTRUCTION PLAN SET
REV 3 ASI 11 2019.11.4

FINAL AS-BUILT PLAN SET
FEBRUARY 20, 2020

**OVERALL PLANT
ISOMETRIC VIEW**

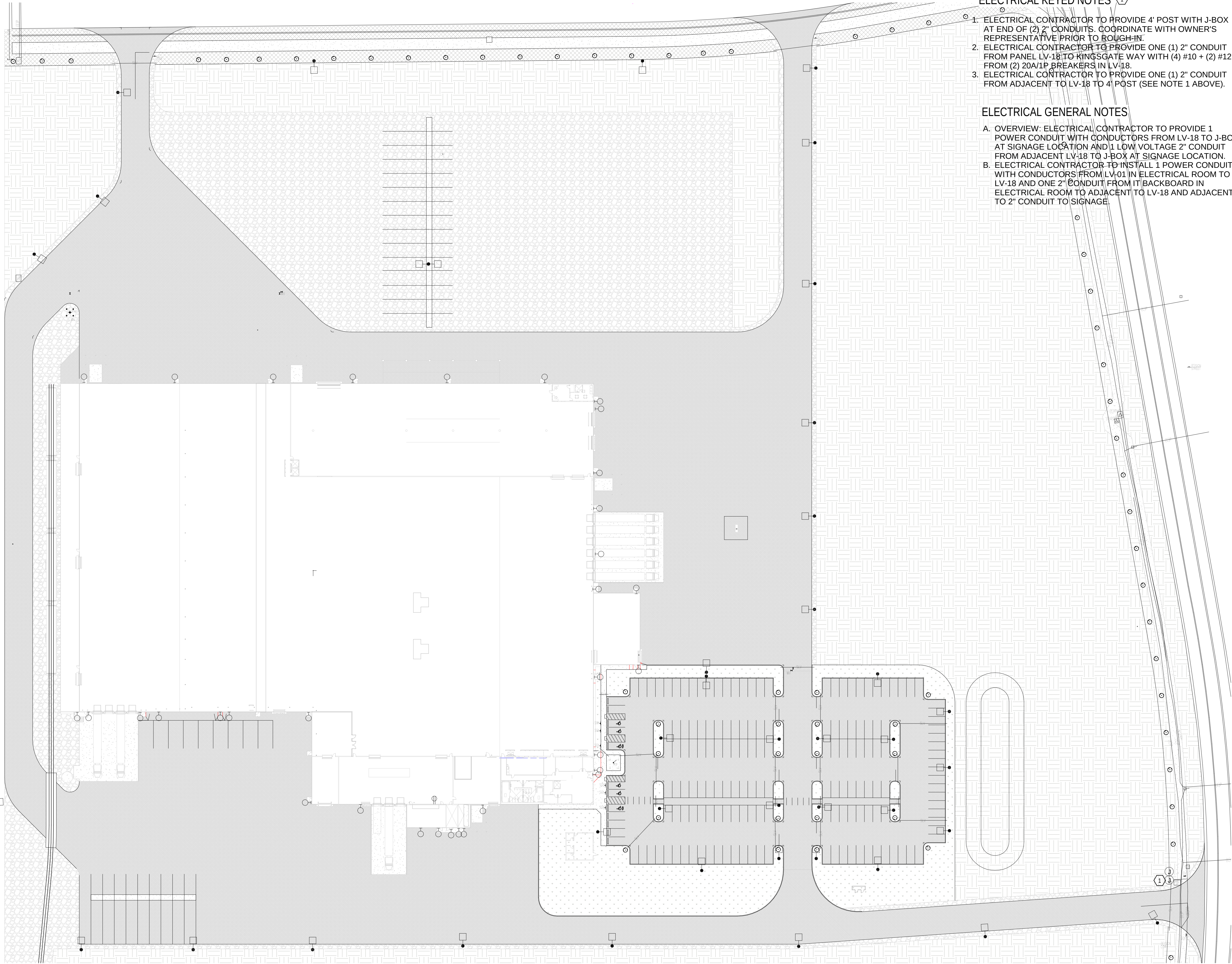
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E1.02



① 3D View Overall Plant

BIM 360/18810 PCA Richland WA Box Plant18810 PCA Richland E-V13.rvt
2/21/2020 12:00:00 PM



1 Electrical Site Plan Overall View
1" = 50'-0"

ELECTRICAL KEYED NOTES 1

1. ELECTRICAL CONTRACTOR TO PROVIDE 4' POST WITH J-BOX AT END OF (2) 2" CONDUITS. COORDINATE WITH OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
2. ELECTRICAL CONTRACTOR TO PROVIDE ONE (1) 2" CONDUIT FROM PANEL LV-18 TO KINGSGATE WAY WITH (4) #10 + (2) #12 FROM (2) 20A/1P BREAKERS IN LV-18.
3. ELECTRICAL CONTRACTOR TO PROVIDE ONE (1) 2" CONDUIT FROM ADJACENT TO LV-18 TO 4' POST (SEE NOTE 1 ABOVE).

ELECTRICAL GENERAL NOTES

- A. OVERVIEW: ELECTRICAL CONTRACTOR TO PROVIDE 1 POWER CONDUIT WITH CONDUCTORS FROM LV-18 TO J-BOX AT SIGNAGE LOCATION AND 1 LOW VOLTAGE 2" CONDUIT FROM ADJACENT LV-18 TO J-BOX AT SIGNAGE LOCATION.
- B. ELECTRICAL CONTRACTOR TO INSTALL 1 POWER CONDUIT WITH CONDUCTORS FROM LV-01 IN ELECTRICAL ROOM TO LV-18 AND ONE 2" CONDUIT FROM IT BACKBOARD IN ELECTRICAL ROOM TO ADJACENT TO LV-18 AND ADJACENT TO 2" CONDUIT TO SIGNAGE.

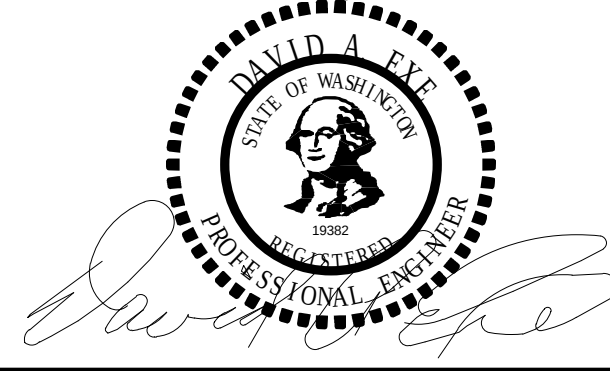


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4	2019.8.9	Misc Electrical
6	2019.9.6	Schmitt Add Work #1

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ELECTRICAL PERMIT PLAN SET
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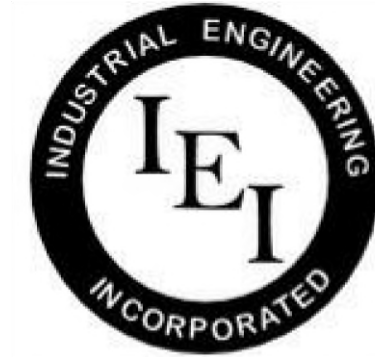
ELECTRICAL CONSTRUCTION PLAN SET
REV 3 ASI 11 2019.11.4

FINAL AS-BUILT PLAN SET
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ELECTRICAL OVERALL
SITE PLAN

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ELECTRICAL PERMIT PLAN SET
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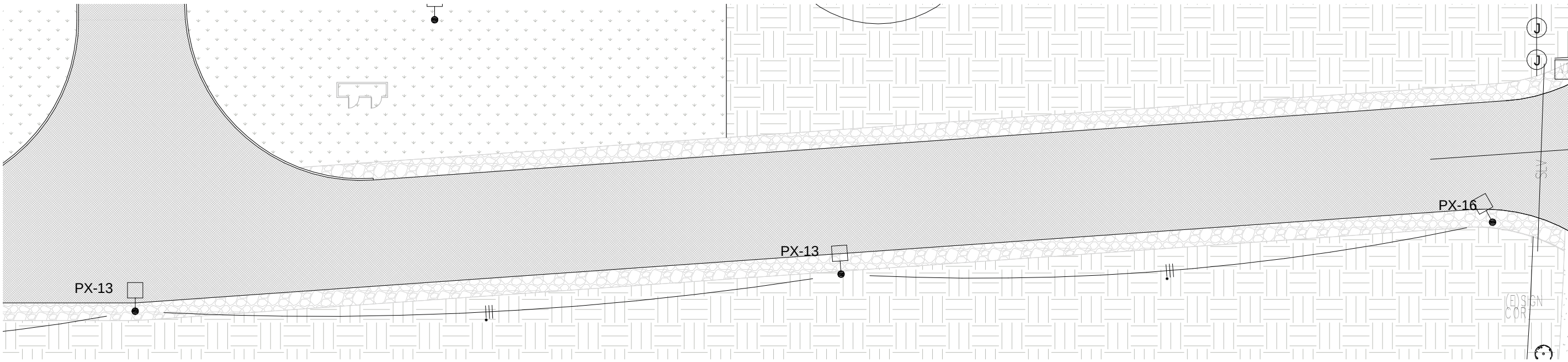
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REV 3 ASI 11 2019.11.4

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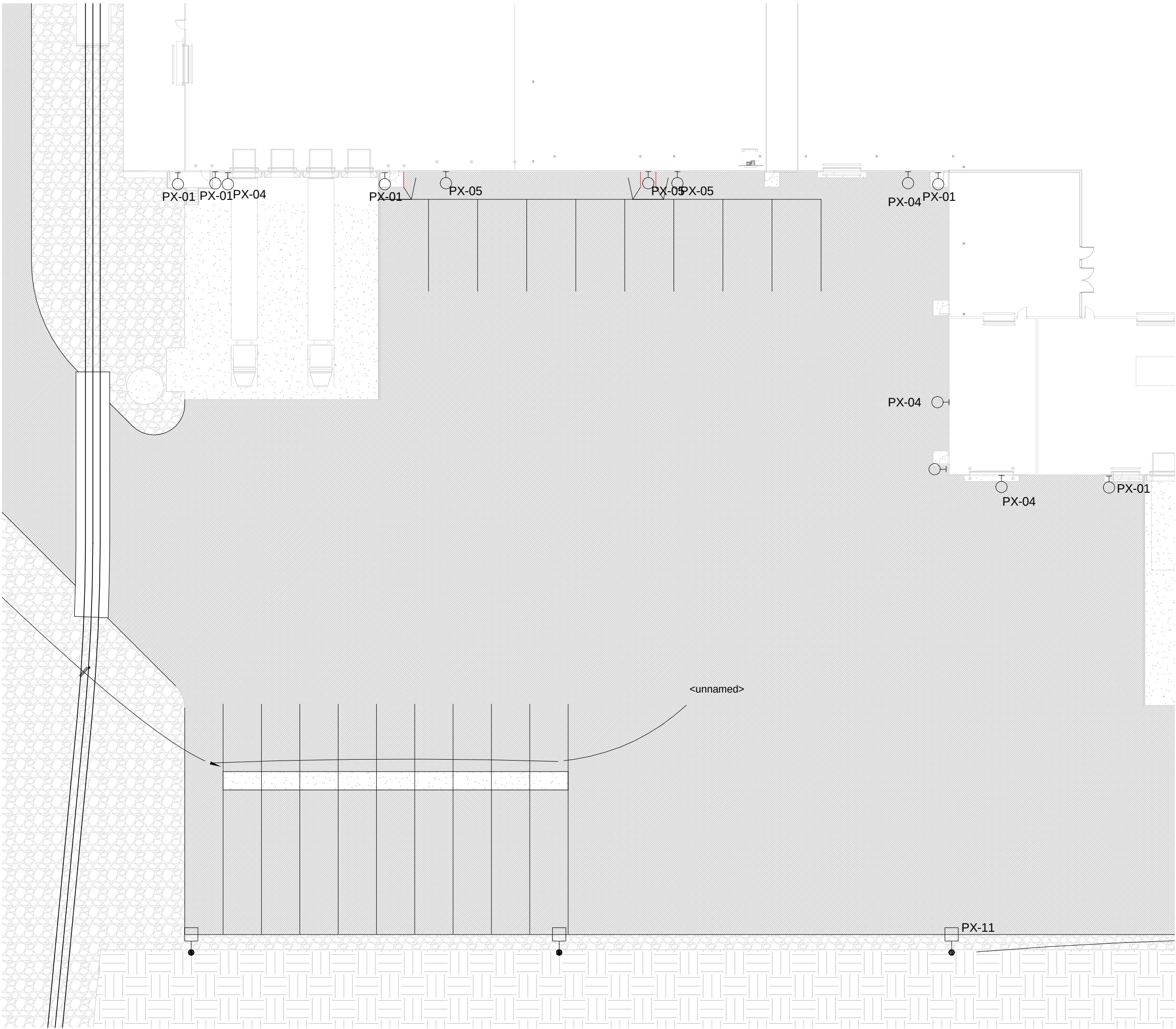
ELECTRICAL SITE
LIGHTING SOUTH
PARKING LOTS

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PROJ. NO: 18810
DATE: FEB 20, 2020
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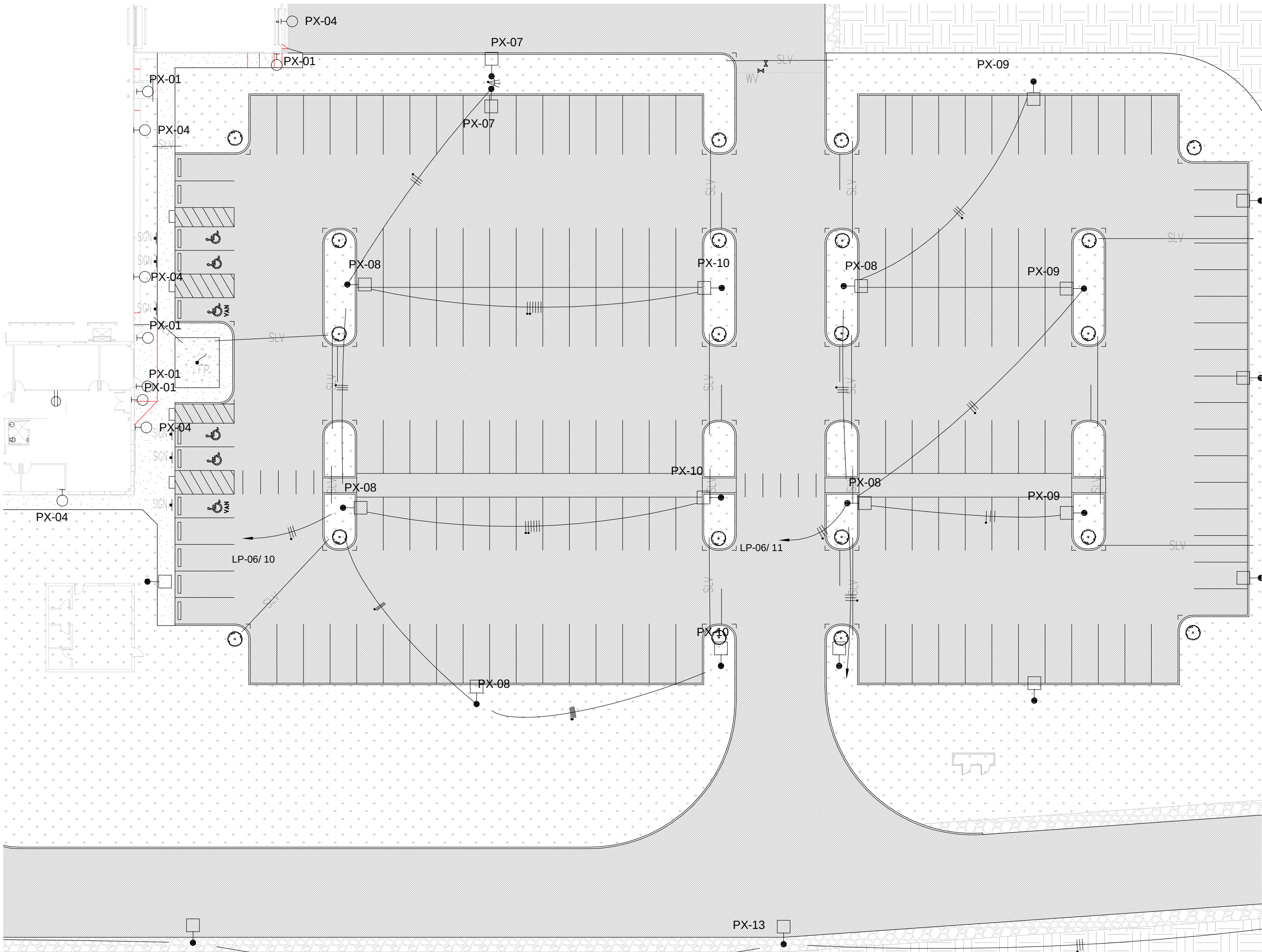
E1.04



3 Site Lighting South Roadway
1" = 30'-0"



1 Site Lighting South West Parking Lot
1" = 30'-0"



2 Site Lighting South East Parking Lot
1" = 30'-0"

ELECTRICAL GENERAL NOTES

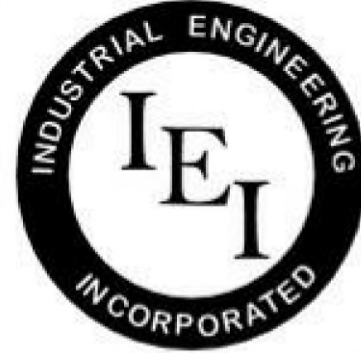
SCOPE:

A. OVERALL SCOPE OF ELECTRICAL WORK CONSISTS OF 3 PHASES.

B. PHASE 1 SHALL BE THE INSTALLATION OF UNDERGROUND CONDUITS AND SLEEVES DURING FOUNDATION PHASE OF GENERAL CONSTRUCTION.

C. PHASE 2 SHALL BE THE INSTALLATION OF ELECTRICAL EQUIPMENT RELATING TO THE BUILDING SHELL AND PREPARATORY WORK FOR THE INSTALLATION OF THE PROCESS EQUIPMENT. THIS SHALL INCLUDE THE UNDERFLOOR CONDUITS FOR BOTH FACILITY POWER & PROCESS ELECTRICAL, LIGHTING, CABLE TRAY, ELECTRICAL SWITCHGEAR AND ASSOCIATED DISTRIBUTION SWITCHBOARDS, TRANSFORMERS & PANELBOARDS AS SHOWN ON THE SHELL PHASE DRAWINGS.

D. PHASE 3 SHALL BE THE INSTALLATION OF ELECTRICAL POWER DIRECTLY RELATED TO THE ELECTRICAL POWER REQUIRED FOR THE PROCESS EQUIPMENT.



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ELECTRICAL PERMIT PLAN SET
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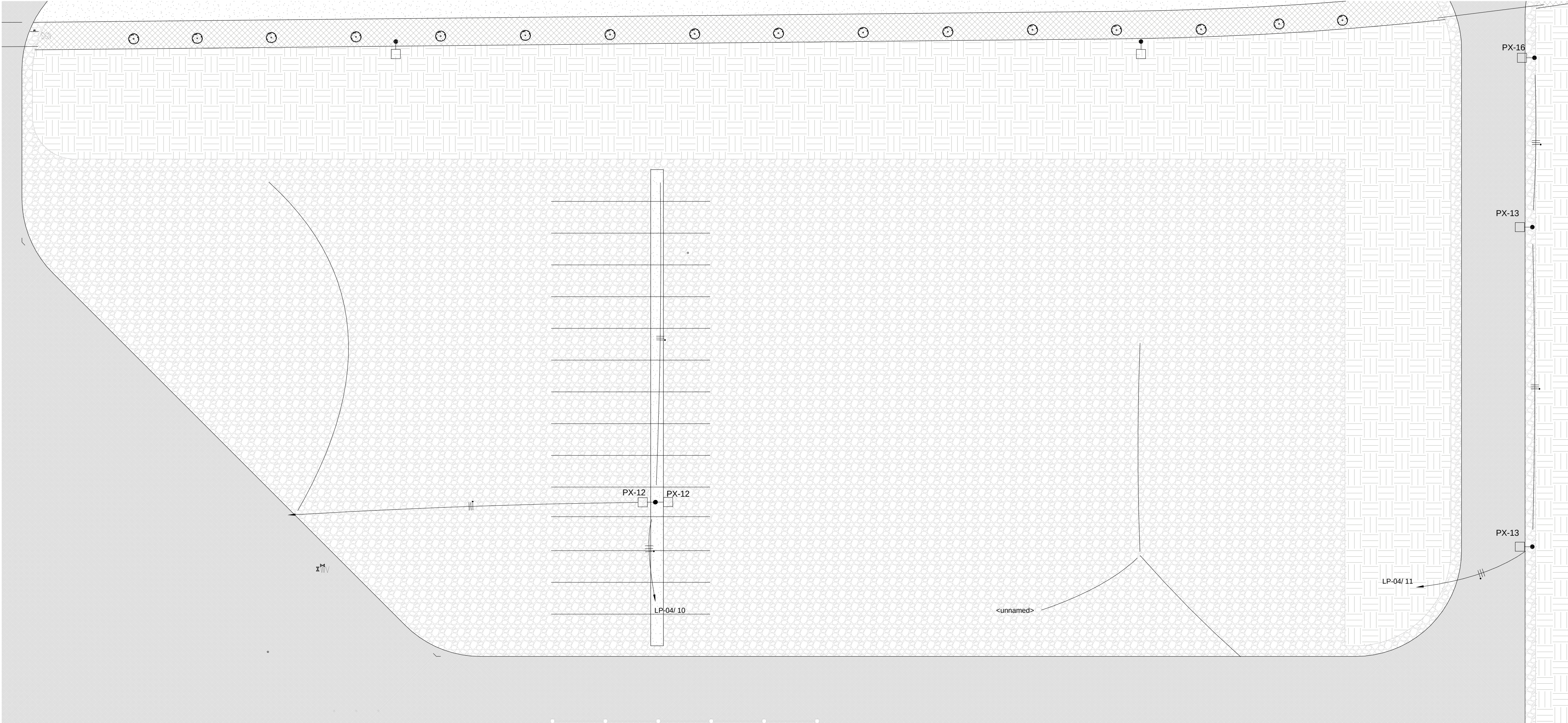
ELECTRICAL SITE
LIGHTING NORTH
PARKING LOT

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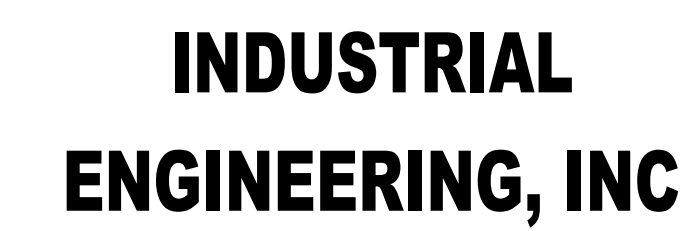
E1.05

ELECTRICAL GENERAL NOTES

- SCOPE:
- A. OVERALL SCOPE OF ELECTRICAL WORK CONSISTS OF 3 PHASES.
- B. PHASE 1 SHALL BE THE INSTALLATION OF UNDERGROUND CONDUITS AND SLEEVES DURING FOUNDATION PHASE OF GENERAL CONSTRUCTION.
- C. PHASE 2 SHALL BE THE INSTALLATION OF ELECTRICAL EQUIPMENT RELATING TO THE BUILDING SHELL AND PREPARATORY WORK FOR THE INSTALLATION OF THE PROCESS EQUIPMENT. THIS SHALL INCLUDE THE UNDERFLOOR CONDUITS FOR BOTH FACILITY POWER & PROCESS ELECTRICAL, LIGHTING, CABLE TRAY, ELECTRICAL SWITCHGEAR AND ASSOCIATED DISTRIBUTION SWITCHBOARDS, TRANSFORMERS & PANELBOARDS AS SHOWN ON THE SHELL PHASE DRAWINGS.
- D. PHASE 3 SHALL BE THE INSTALLATION OF ELECTRICAL POWER DIRECTLY RELATED TO THE ELECTRICAL POWER REQUIRED FOR THE PROCESS EQUIPMENT.



1 Site Lighting North Parking Lot
1" = 30'-0"



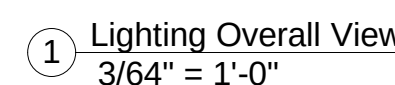
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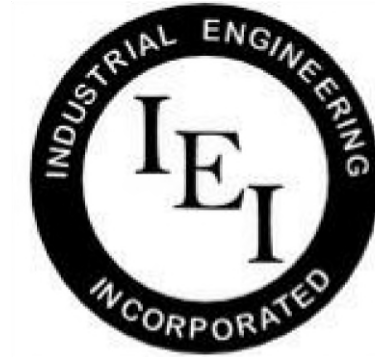
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ELECTRICAL LIGHTING &
POWER AREA 1 LB

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PROJ. NO: 18810
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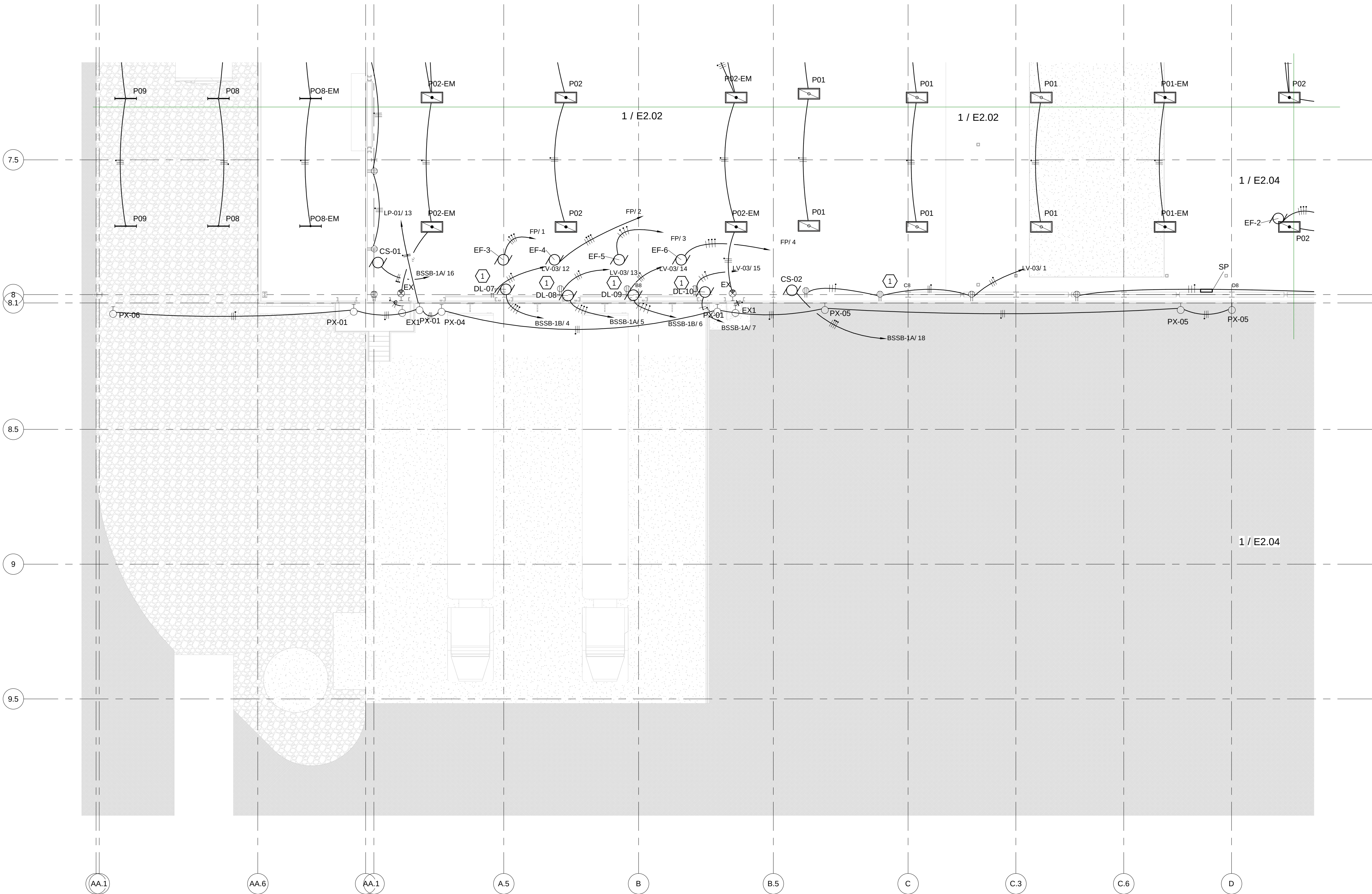
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ELECTRICAL KEYED NOTES

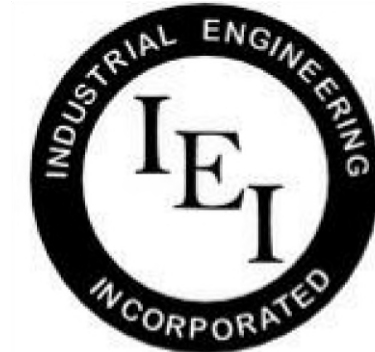
- Dock Levelers (typical of 4). Install 480V/3P/#10 to dock level controller. Coordinate location with dock level installer. Install dedicated 120V/20A circuit to dock level retainer. Coordinate location with dock level installer.

ELECTRICAL GENERAL NOTES

- MOUNT OUTLETS IN PRODUCTION/PROCESS AREA 3'-0" ABOVE FINISHED FLOOR.
- VERIFY SPECIFIC LOCATION OF ALL EXIT LIGHTS AND EXTERIOR LIGHTS WITH ARCHITECTURAL PLANS. VERIFY LOCATIONS OF ANY QUESTIONABLE WITH OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.



1 Lighting & Power AREA 1 - DV-LB
3/32" = 1'-0"



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3	2019.07.17	Misc Updates

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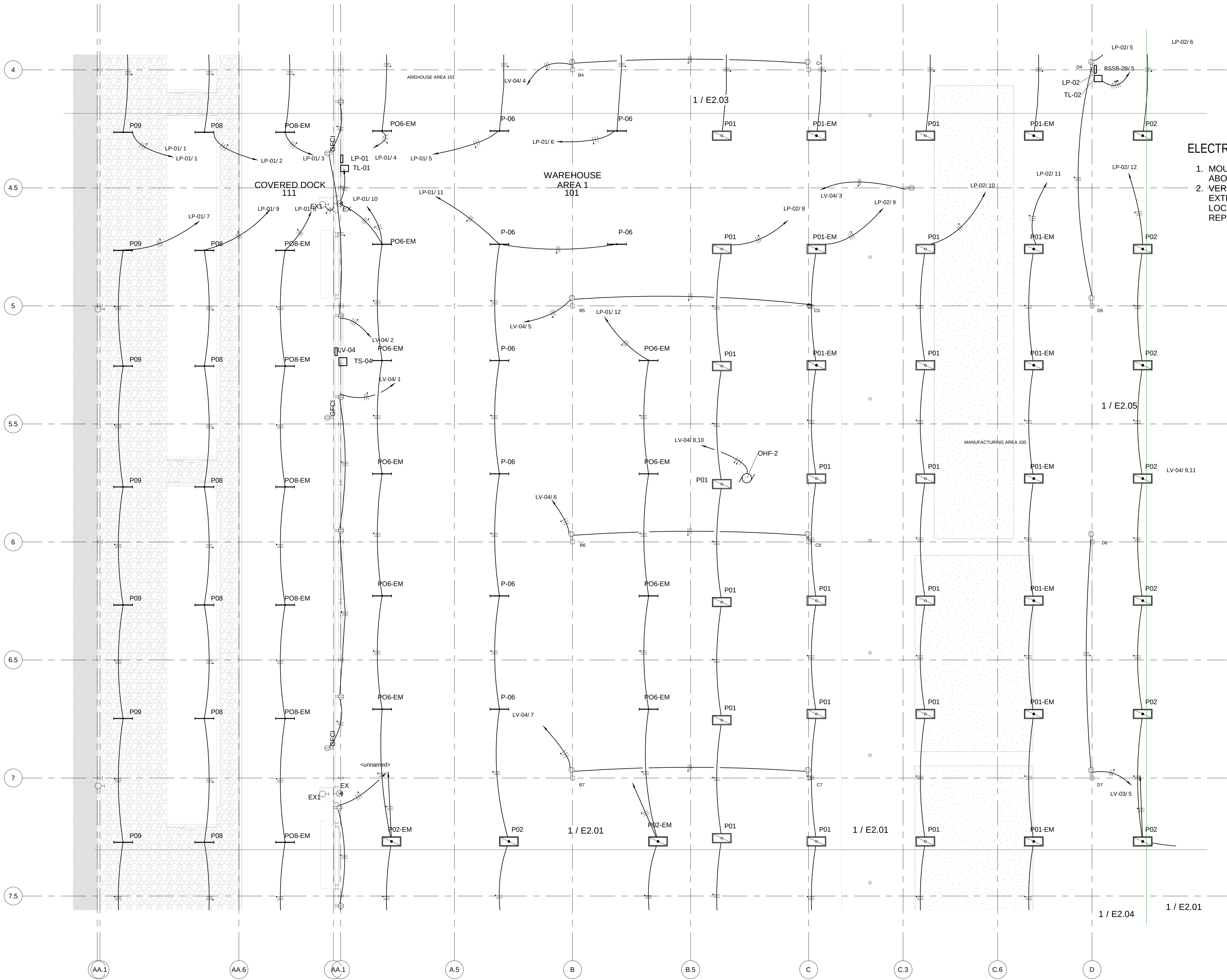
ELECTRICAL CONSTRUCTION PLAN SET
REV 3 ASI 11 2019.11.4

FINAL AS-BUILT PLAN SET
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ELECTRICAL LIGHTING &
POWER AREA 2LC

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DATE: FEB 20, 2020
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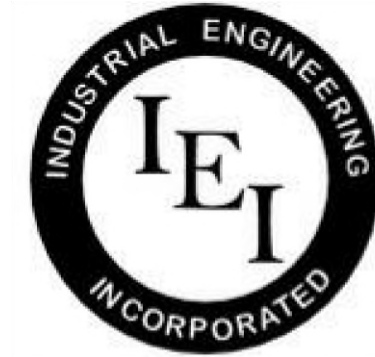
E2.02



ELECTRICAL GENERAL NOTES

1. MOUNT OUTLETS IN PRODUCTION/PROCESS AREA 3'-0" ABOVE FINISHED FLOOR.
2. VERIFY SPECIFIC LOCATION OF ALL EXIT LIGHTS AND EXTERIOR LIGHTS WITH ARCHITECTURAL PLANS. VERIFY LOCATIONS OF ANY QUESTIONABLE WITH OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.

1 Lighting & Power AREA 2 - DV-LC
3/32" = 1'-0"



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ELECTRICAL CONSTRUCTION PLAN SET
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FINAL AS-BUILT PLAN SET
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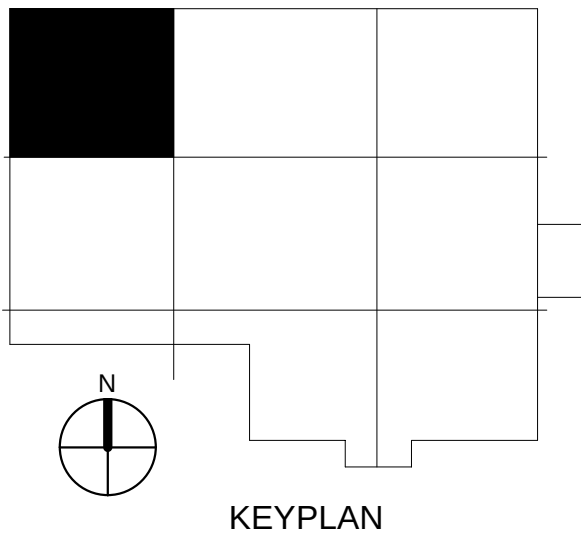
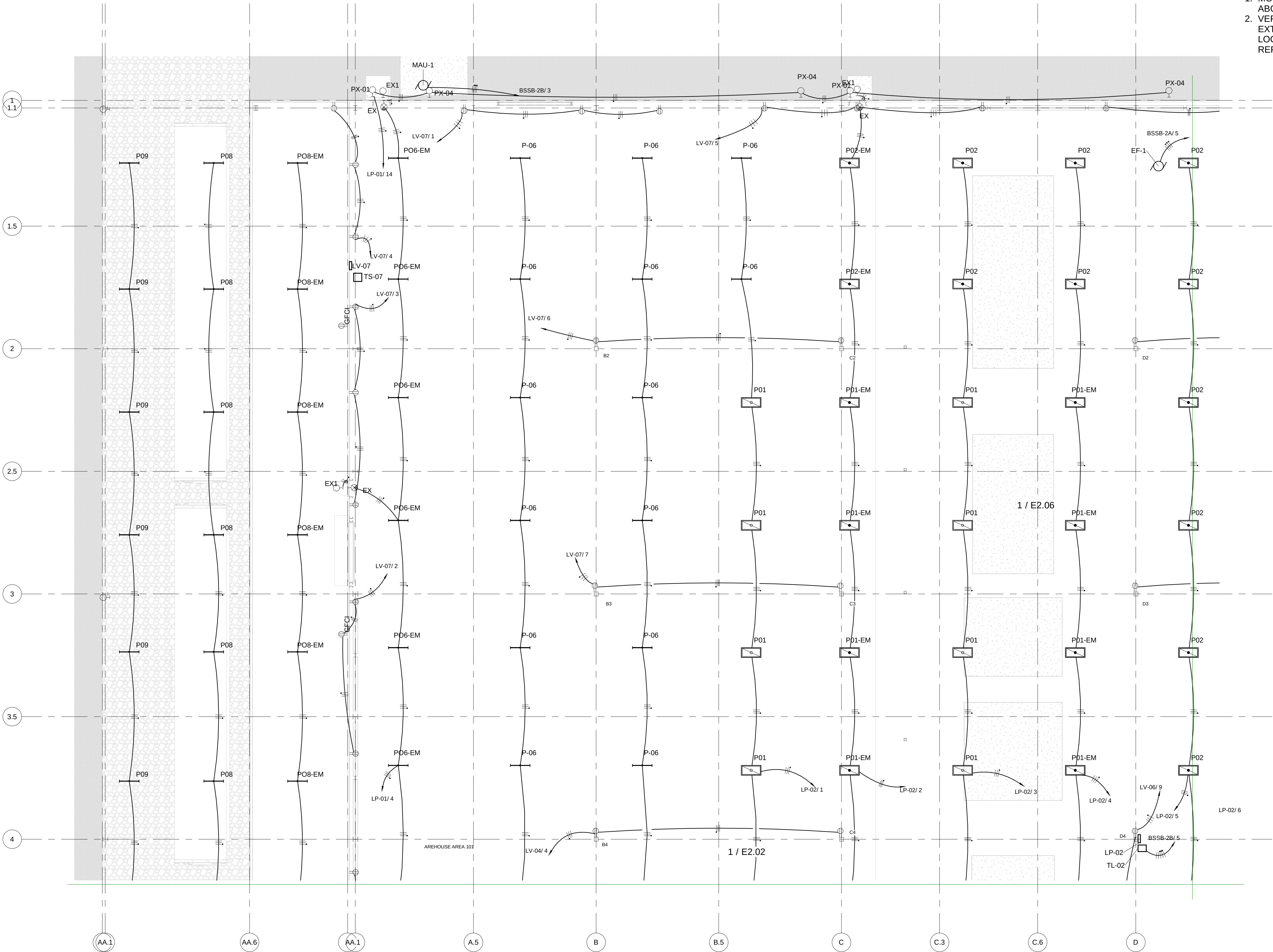
ELECTRICAL LIGHTING &
POWER AREA 3 LT

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ELECTRICAL GENERAL NOTES

1. MOUNT OUTLETS IN PRODUCTION/PROCESS AREA 3'-0" ABOVE FINISHED FLOOR.
2. VERIFY SPECIFIC LOCATION OF ALL EXIT LIGHTS AND EXTERIOR LIGHTS WITH ARCHITECTURAL PLANS. VERIFY LOCATIONS OF ANY QUESTIONABLE WITH OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.



1 Lighting & Power AREA 3 - DV-LT
3/32" = 1'-0"



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ELECTRICAL PERMIT PLAN SET
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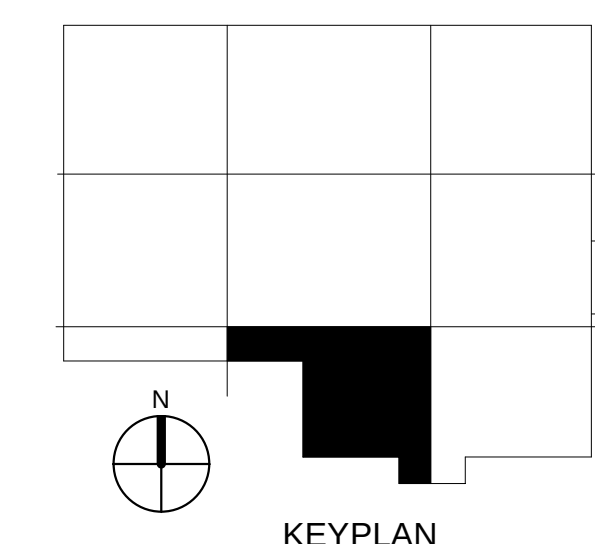
ELECTRICAL CONSTRUCTION PLAN SET
REV 3 ASI 11 2019.11.4

FINAL AS-BUILT PLAN SET
FEBRUARY 20, 2020

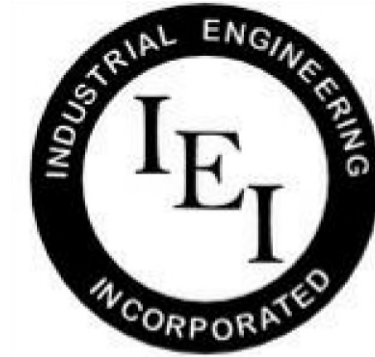
ELECTRICAL LIGHTING &
POWER AREA 4 CB

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① Lighting & Power AREA 4 - DV-CB
3/32" = 1'-0"



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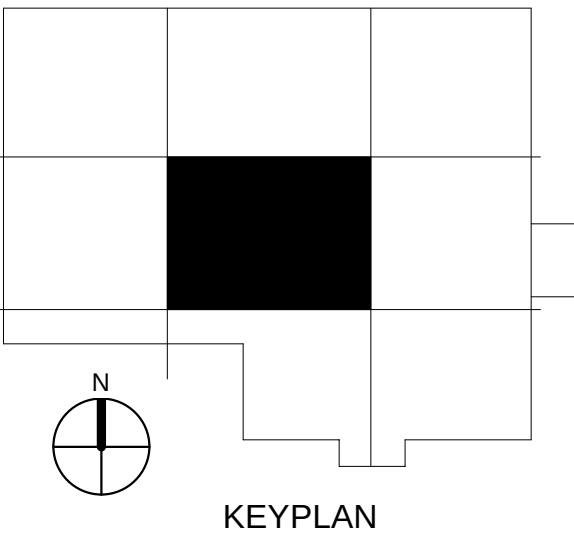
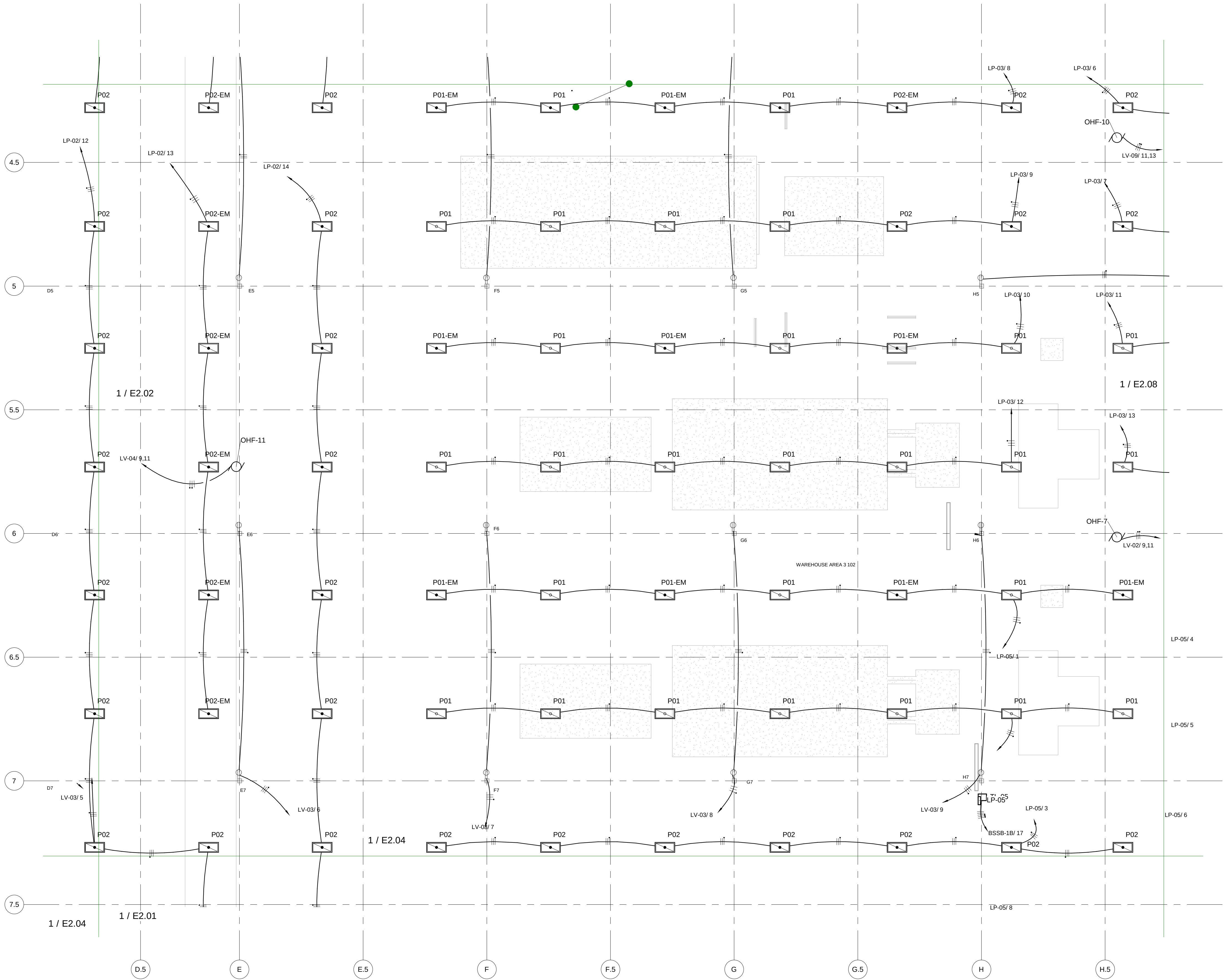
ELECTRICAL LIGHTING &
POWER AREA 5 CC

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ELECTRICAL GENERAL NOTES

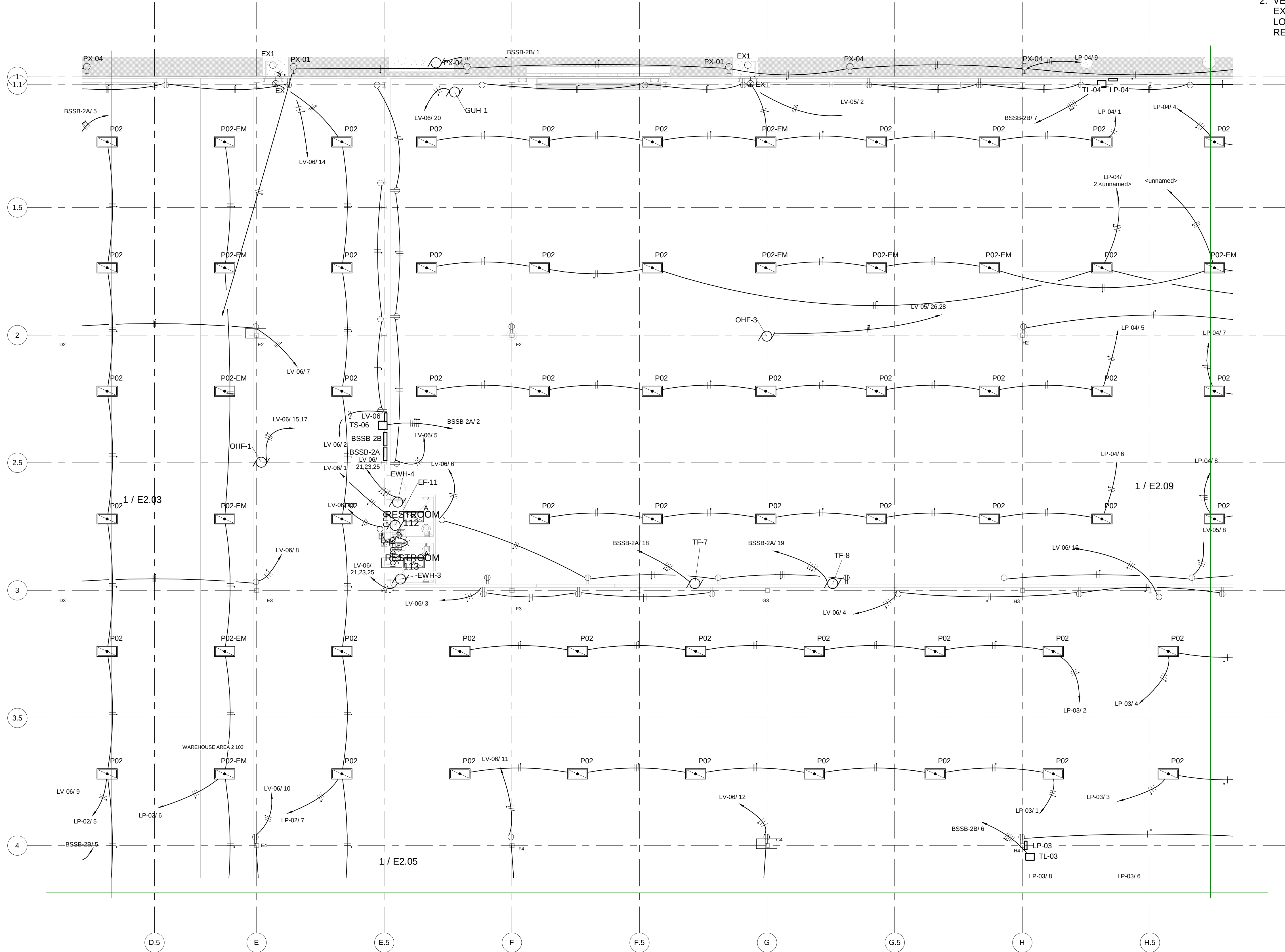
1. MOUNT OUTLETS IN PRODUCTION/PROCESS AREA 3'-0" ABOVE FINISHED FLOOR.
2. VERIFY SPECIFIC LOCATION OF ALL EXIT LIGHTS AND EXTERIOR LIGHTS WITH ARCHITECTURAL PLANS. VERIFY LOCATIONS OF ANY QUESTIONABLE WITH OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.



1 Lighting & Power AREA 5 - DV-CC
3/32" = 1'-0"

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① Lighting & Power AREA 6 - DV-CT
3/32" = 1'-0"



ELECTRICAL GENERAL NOTES

1. MOUNT OUTLETS IN PRODUCTION/PROCESS AREA 3'-0" ABOVE FINISHED FLOOR.
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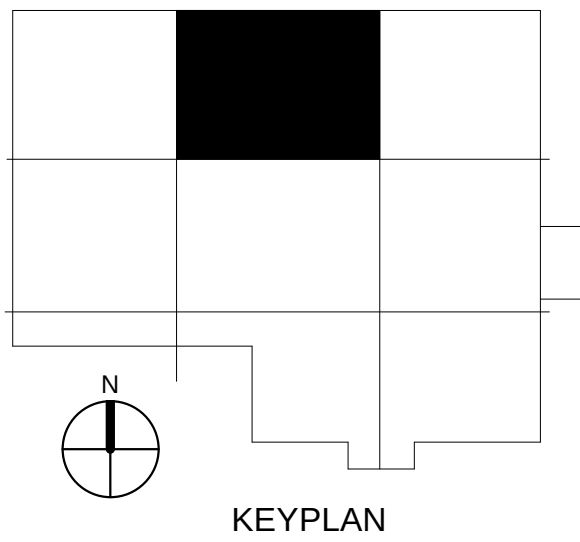
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ELECTRICAL PERMIT PLAN SET
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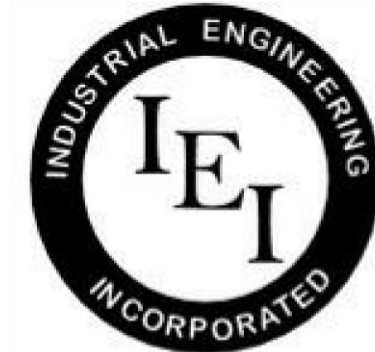
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ELECTRICAL LIGHTING & POWER AREA 6 CT



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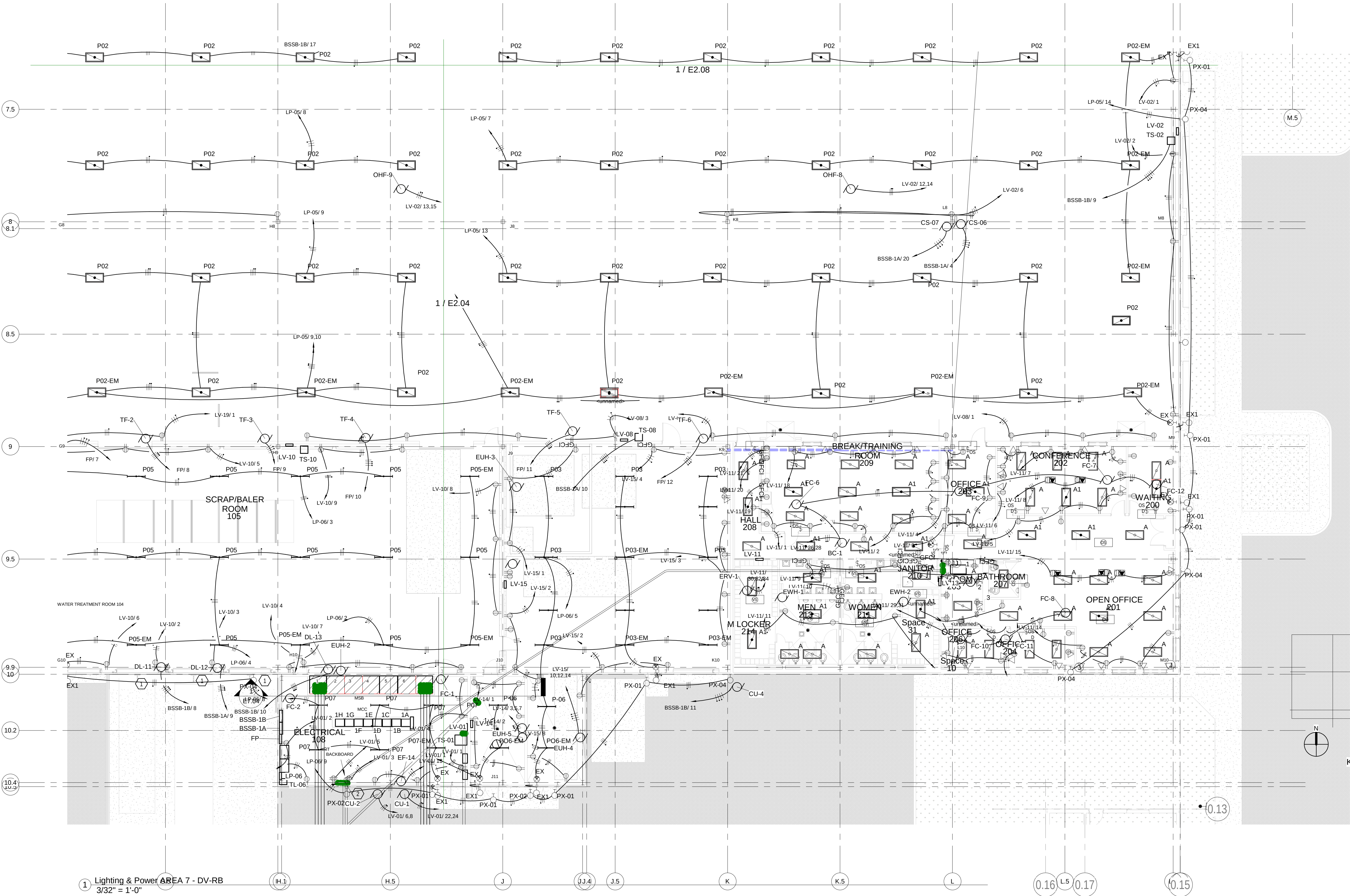
**ELECTRICAL LIGHTING &
POWER AREA 7 RB**

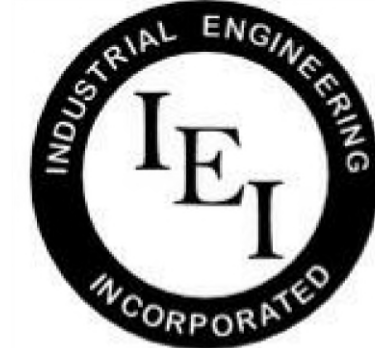
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PROJ. NO: 18810
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E2.07

ELECTRICAL GENERAL NOTES

1. MOUNT OUTLETS IN PRODUCTION/PROCESS AREA 3'-0" ABOVE FINISHED FLOOR.
2. VERIFY SPECIFIC LOCATION OF ALL EXIT LIGHTS AND EXTERIOR LIGHTS WITH ARCHITECTURAL PLANS. VERIFY LOCATIONS OF ANY QUESTIONABLE WITH OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.





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ELECTRICAL LIGHTING &
POWER AREA 8 RC

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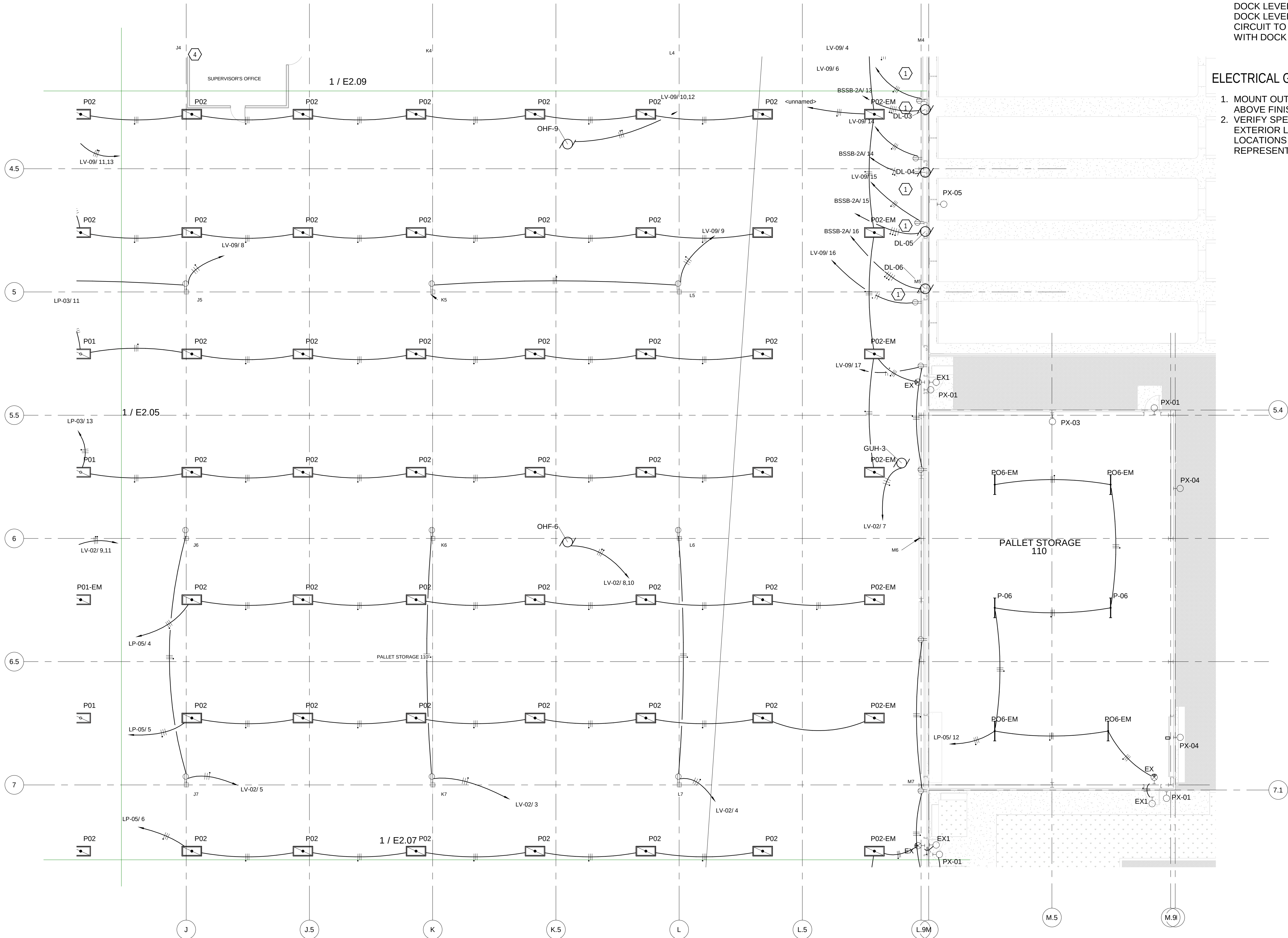
E2.08

ELECTRICAL KEYED NOTES

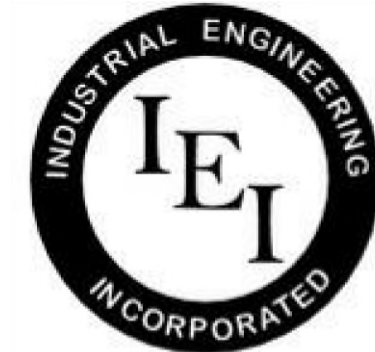
1. DOCK LEVELERS (TYPICAL OF 6). INSTALL 480V/3P/#10 TO DOCK LEVEL CONTROLLER. COORDINATE LOCATION WITH DOCK LEVEL INSTALLER. INSTALL DEDICATED 120V/20A CIRCUIT TO DOCK LEVEL RETAINER. COORDINATE LOCATION WITH DOCK LEVEL INSTALLER.

ELECTRICAL GENERAL NOTES

1. MOUNT OUTLETS IN PRODUCTION/PROCESS AREA 3'-0" ABOVE FINISHED FLOOR.
2. VERIFY SPECIFIC LOCATION OF ALL EXIT LIGHTS AND EXTERIOR LIGHTS WITH ARCHITECTURAL PLANS. VERIFY LOCATIONS OF ANY QUESTIONABLE WITH OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.



1 Lighting & Power AREA 8 - DV-RC
3/32" = 1'-0"



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NO	DATE	REVISION
1	2019.5.10	Elect Serv & HVAC
2	2019.06.18	ASI005 General Elect
6	2019.9.6	Schmitt Add Work #1

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3003 KINGSGATE WAY
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ELECTRICAL PERMIT PLAN SET
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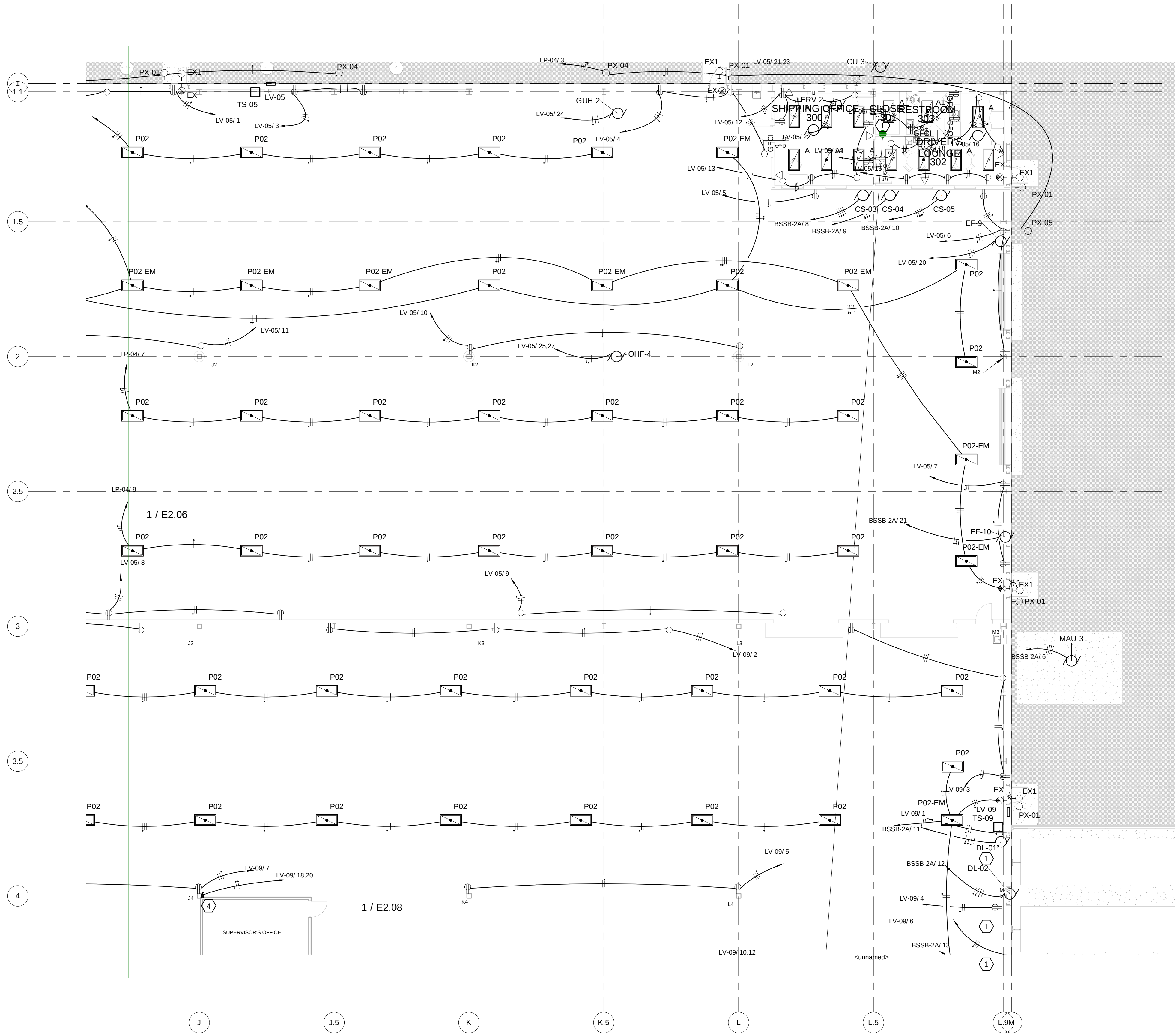
ELECTRICAL CONSTRUCTION PLAN SET
REV 3 ASI 11 2019.11.4

FINAL AS-BUILT PLAN SET
FEBRUARY 20, 2020

ELECTRICAL LIGHTING &
POWER AREA 9 RT

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DATE: FEB 20, 2020
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E2.09

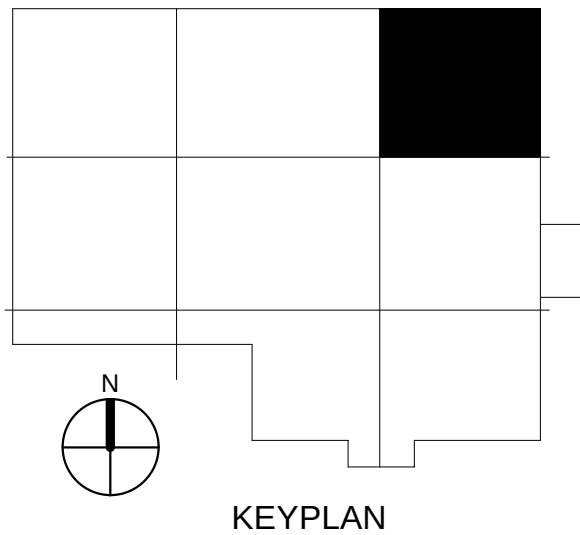


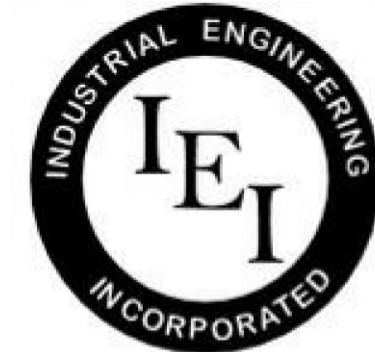
ELECTRICAL KEYED NOTES

- DOCK LEVELERS (TYPICAL OF 6). INSTALL 480V/3P/#10 TO DOCK LEVEL CONTROLLER. COORDINATE LOCATION WITH DOCK LEVEL INSTALLER. INSTALL DEDICATED 120V/20A CIRCUIT TO DOCK LEVEL RETAINER. COORDINATE LOCATION WITH DOCK LEVEL INSTALLER.
- N/A
- 2" DATA CONDUIT FROM IT ROOM 205. RISE TO 2" ABOVE BOTTOM OF IT BACKBOARD. CAP WITH PROTECTIVE RING TO PROTECT CABLES. PROVIDE PULL CORD AND LABEL BOTH ENDS OF CONDUIT.
- PROVIDE 200A DISCONNECT AND CIRCUIT FROM PANEL LV-09 WITH 1 1/2"C.(3) #1 THHN + #6 GND. MOUNT DISCONNECT TO COLUMN J4. PROVIDE FEED FROM DISCONNECT TO SUPERVISOR'S OFFICE 125A PANEL.

ELECTRICAL GENERAL NOTES

- MOUNT OUTLETS IN PRODUCTION/PROCESS AREA 3'-0" ABOVE FINISHED FLOOR.
- VERIFY SPECIFIC LOCATION OF ALL EXIT LIGHTS AND EXTERIOR LIGHTS WITH ARCHITECTURAL PLANS. VERIFY LOCATIONS OF ANY QUESTIONABLE WITH OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.





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1	2019.5.10	Elect Serv & HVAC
2	2019.06.18	ASI005 General Elect
4	2019.8.9	Misc Electrical
5	2019	Misc Electrical
6	2019.9.6	Schmitt Add Work #1

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FINAL AS-BUILT PLAN SET
FEBRUARY 20, 2020

ELECTRICAL & WATER
TREATMENT ROOMS
ENLARGED VIEWS

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DATE: FEB 20, 2020
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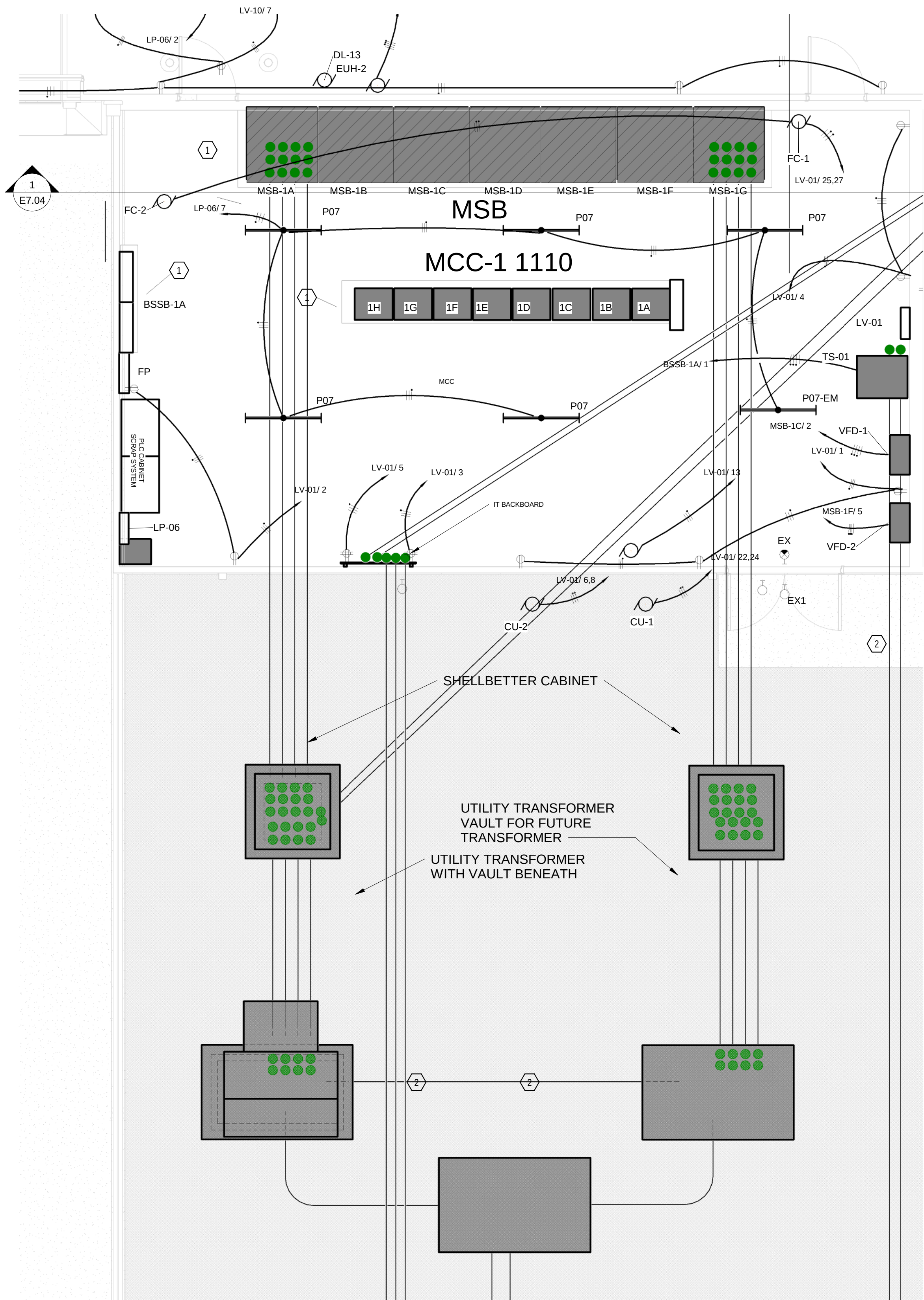
E3.01

ELECTRICAL KEYED NOTES

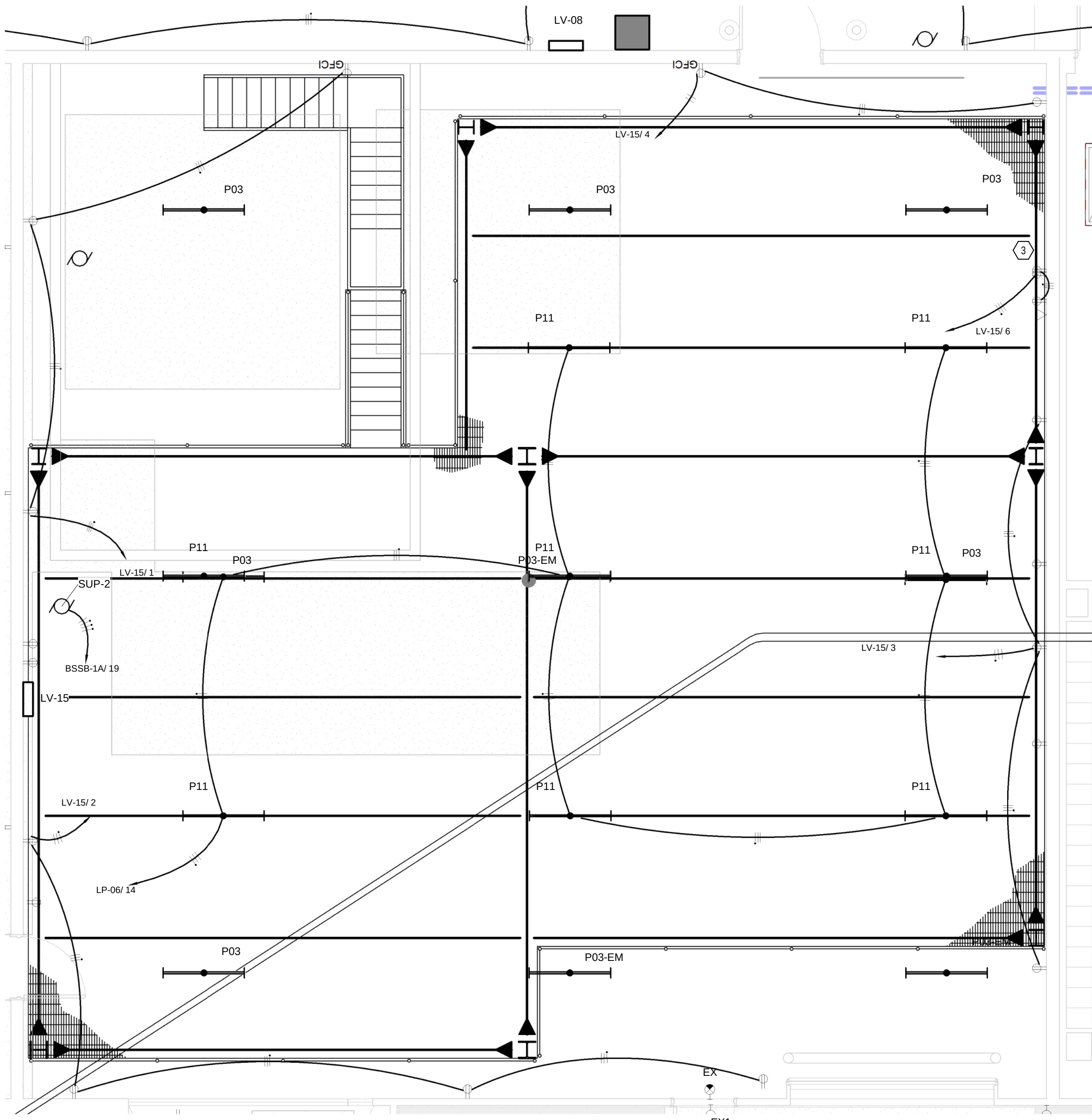
1. PROVIDE 4" HOUSE KEEPING PAD FOR EQUIPMENTS AS SHOWN ON PLAN. EQUIPMENT PAD TO EXTEND 6" BEYOND EACH END OF EQUIPMENT AND EXTEND 3" BEYOND FRONT OF EQUIPMENT. CONTRACTOR TO VERIFY EXACT LOCATION AND DIMENSIONS OF EQUIPMENT PRIOR TO INSTALLATION OF THE EQUIPMENT PADS. WHERE EQUIPMENT IS LOCATED AWAY FROM A WALL THE PAD SHALL EXTEND 3" BEYOND FRONT AND REAR OF EQUIPMENT.
2. SEE CIVIL ENGINEERING PLANS FOR EXTENSION OF ELECTRICAL UTILITY, DATA, AND SIGNAGE CONDUIT EXTENDED TO THE STREET. CONTRACTOR TO INSTALL ELECTRICAL VAULT IN UTILITY CONDUITS AT EXIT TO PARKING LOT PER CIVIL PLANS. ELECTRICAL CONDUITS TO BE IN DUCT BANK WHEN PASSING UNDER DRIVE OR VEHICLE PATH.
3. INK KITCHEN CONTROL CONSOLE RECEPTACLES. COORDINATE WITH INK KITCHEN CONTRACTOR FOR SPECIFIC LOCATION OF RECEPTACLES. PROVIDE 4X4 J-BOX WITH CONDUIT BACK TO IT ROOM IN MAIN OFFICE AREA.

ELECTRICAL GENERAL NOTES

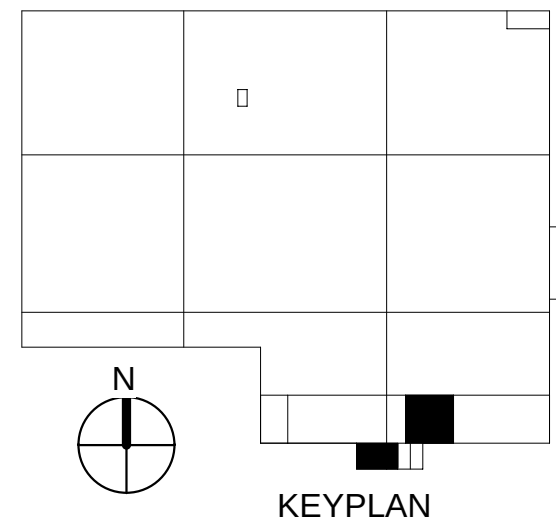
1. LIGHTING FOR THE WATER TREATMENT ROOM SHALL BE CIRCUITED FROM THE OVERALL PRODUCTION AREA LIGHTING PANELS AND SHALL BE SWITCHED WITH THE OVERALL PRODUCTION AREA LIGHTING.



② Electrical Room Enlarged View
1/4" = 1'-0"



① Water Treatment Room Enlarged View
1/4" = 1'-0"





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ELECTRICAL GENERAL NOTES

1. LIGHTING FOR THE MEZZANINE AREA IS SHOWN ON SHEET E3.07 AND IS PART OF THE GENERAL PRODUCTION AREA LIGHTING. CIRCUITING AND SWITCHING FOR THE MEZZANINE AREA SHALL BE BASED ON THE OVERALL PRODUCTION AREA WITH NO SPECIFIC CIRCUITING OR SWITCHING FOR THE MEZZANINE AREA.
2. RECEPTACLES FOR THE MEZZANINE AREA SHALL BE AS SHOWN ON THIS PLAN.
3. FRAMING FOR THE FLOOR OF THE MEZZANINE IS SHOWN FOR REFERENCE ONLY AND HAS NO RELATIONSHIP TO LIGHTING LAYOUT.

NO	DATE	REVISION
6	2019.9.6	Schmitt Add Work #1

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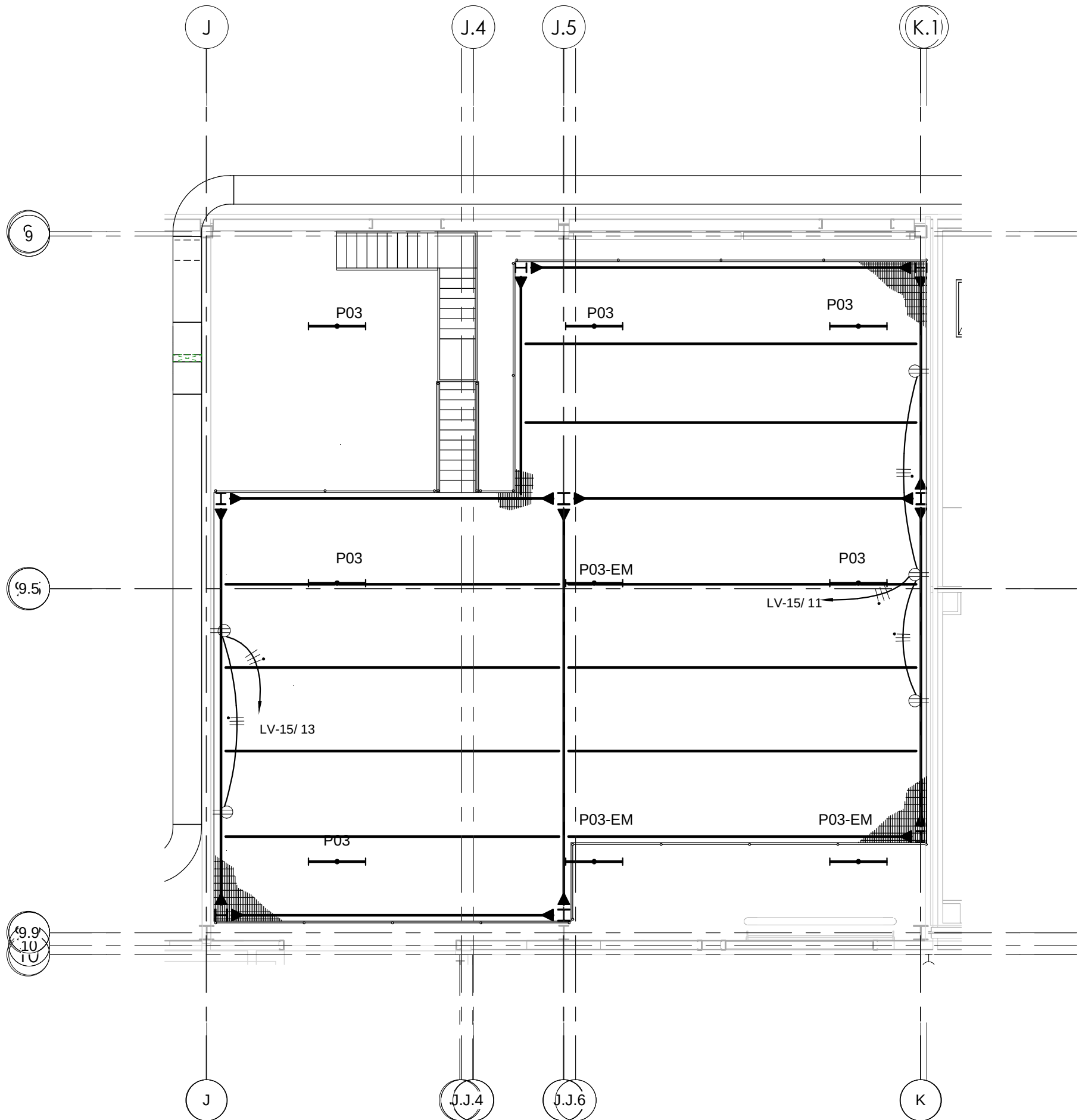
ELECTRICAL CONSTRUCTION PLAN SET
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FINAL AS-BUILT PLAN SET
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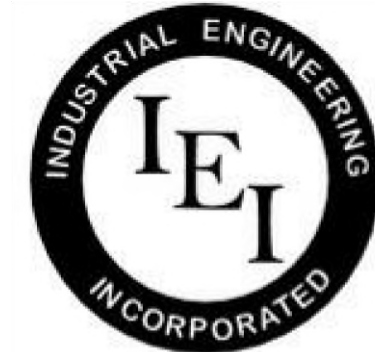
WATER TREATMENT
ROOM MEZZANINE
LEVEL

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E3.01A



1 Water Treatment area mezzanine
1/8" = 1'-0"



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2	2019.06.18	ASI005 General Elect
7	2019.10.7	Misc Electrical

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FINAL AS-BUILT PLAN SET
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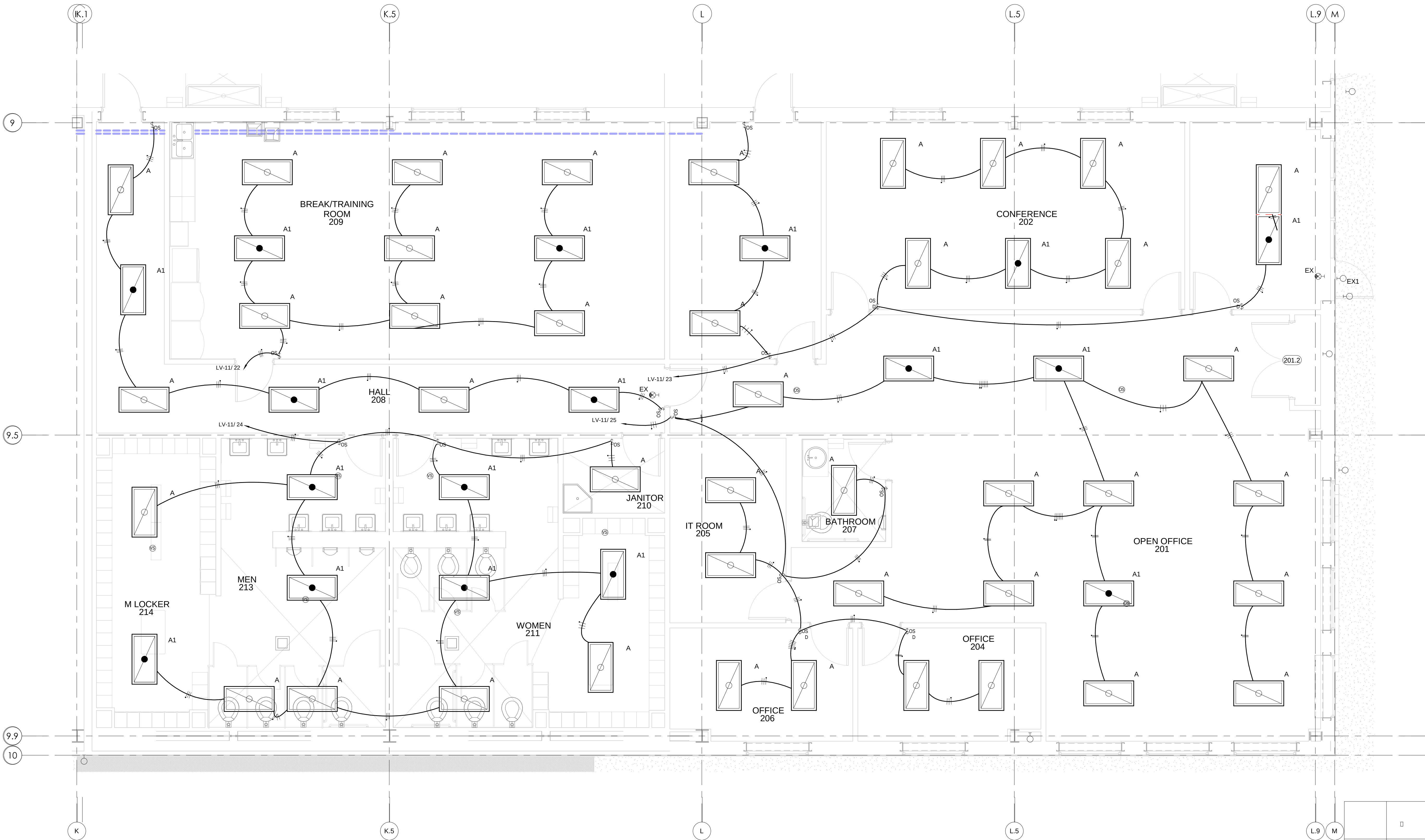
OFFICE AREA LIGHTING
1/4" VIEW

FILE: 18810
DRAWN BY: DAE
CHECKED BY: DAE
PROJ. NO: 18810
DATE: FEB 20, 2020
DRAWING NO:

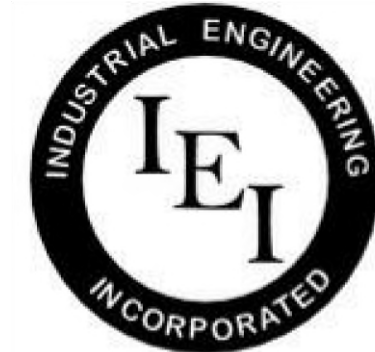
E3.02

ELECTRICAL LIGHTING GENERAL NOTES

1. LIGHT FIXTURES LOCATED OVER RESTROOMS, LOCKER ROOMS AND JANITOR CLOSETS TO BE RECESSED MOUNTED IN HARD GWB CEILING. PROVIDE HARDWARE AS REQUIRED FOR FLUSH MOUNTING.
2. BATHROOMS AND LOCKER ROOMS SHALL HAVE A DRYWALL CEILING. OWNER WILL PROVIDE AN ADAPTER KIT TO ALLOW DESIGNATED FIXTURES TO BE DRYWALL MOUNTED. COORDINATE SPECIFIC KIT REQUIREMENTS WITH FIXTURE MANUFACTURER TO ASSURE FIT.



1 Electrical Lighting Plant Office Area 1/4" View
1/4" = 1'-0"



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NO	DATE	REVISION
2	2019.06.18	AS1005 General Elect
3	2019.07.17	Misc Updates
4	2019.8.9	Misc Electrical

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FINAL AS-BUILT PLAN SET
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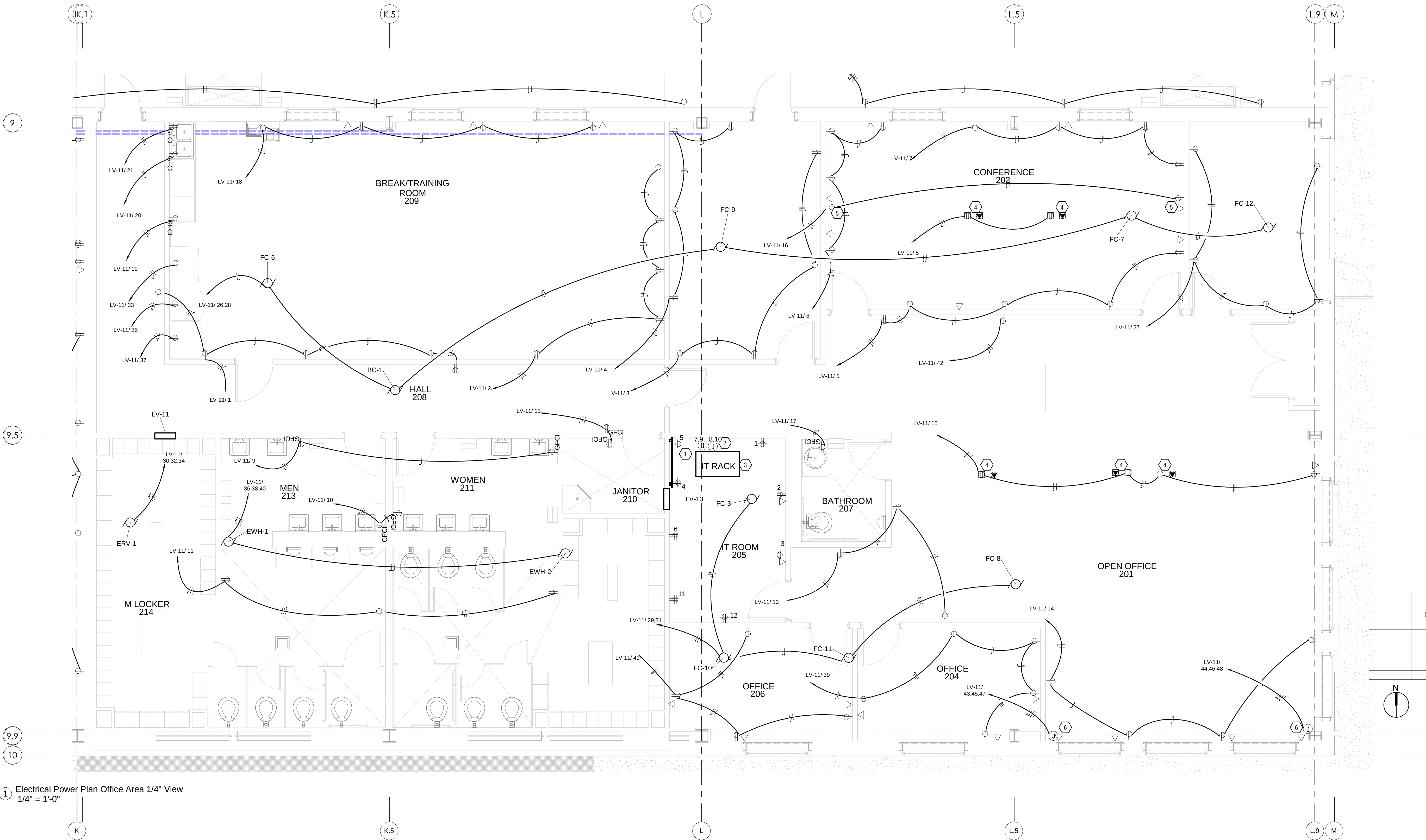
OFFICE AREA POWER
1/4" VIEW

FILE: 18810
DRAWN BY: DAE
CHECKED BY: DAE
PROJ. NO: 18810
DATE: FEB 20, 2020
DRAWING NO:

E3.03

ELECTRICAL KEYED NOTES

- TOTAL OF 3 CONDUITS TO RISE AT BOTTOM OF IT BACKBOARD TO 12" AFF. CAP WITH PROTECTIVE RING TO PROTECT CABLES. TWO (2) 3" CONDUITS, WITH PULL CORDS FROM IT BACKBOARD IN ELECTRICAL ROOM. ONE (1) 2" CONDUIT TO CLOSET IN SHIPPING OFFICES. PROVIDE PULL CORD.
- PROVIDE TWO (2) 4"x4" J-BOXES WITH 3/4" CONDUIT TO PANEL LV-18. PROVIDE FOUR (4) #10 THHN CU CONDUCTORS + #10 GND IN EACH & LABEL EACH AT EACH END. PROVIDE ENOUGH EXCESS TO TERMINATE TO ANY BREAKER IN LV-18 AND FOR CONNECTION TO WHIP FOR POWER TO SERVER CABINET.
- IT RACK BY OTHERS.
- PROVIDE IN-FLOOR LOW VOLTAGE BOX. PROVIDE 1" CONDUIT UNDERFLOOR TO RISE AT BASE OF IT BACK BOARD IN IT ROOM.
- PROVIDE DUPLEX RECEPTACLE AND LOW VOLTAGE RECEPTACLE AT 60" AFF. COORDINATE LOCATION WITH OWNER'S REPRESENTATIVE PRIOR TO ROUGH IN.
- PROVIDE J-BOX ABOVE CEILING WITH 3/4" CONDUIT TO CEILING ABOVE IT ROOM 205. COORDINATE LOCATION IN IT ROOM WITH OWNER'S REPRESENTATIVE. PROVIDE J-BOX ABOVE CEILING WITH 1"C & (6) #10 THHN CU (3 BLK + 3 WHITE) PLUS (2) #10 GND BACK TO 3P BREAKER IN PANEL LV-11. COORDINATE WITH FURNITURE PROVIDER.



1 Electrical Power Plan Office Area 1/4" View
1/4" = 1'-0"



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NO	DATE	REVISION
3	2019.07.17	Misc Updates

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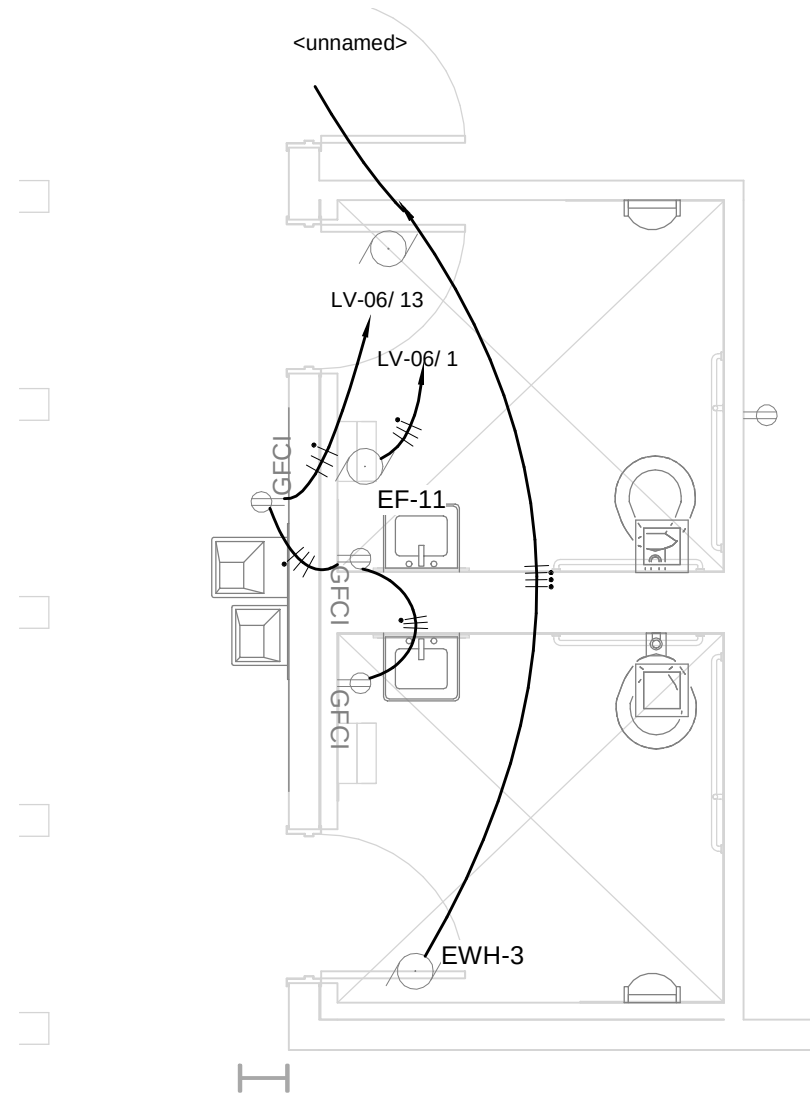
ELECTRICAL CONSTRUCTION PLAN SET
REV 3 ASI 11 2019.11.4

FINAL AS-BUILT PLAN SET
FEBRUARY 20, 2020

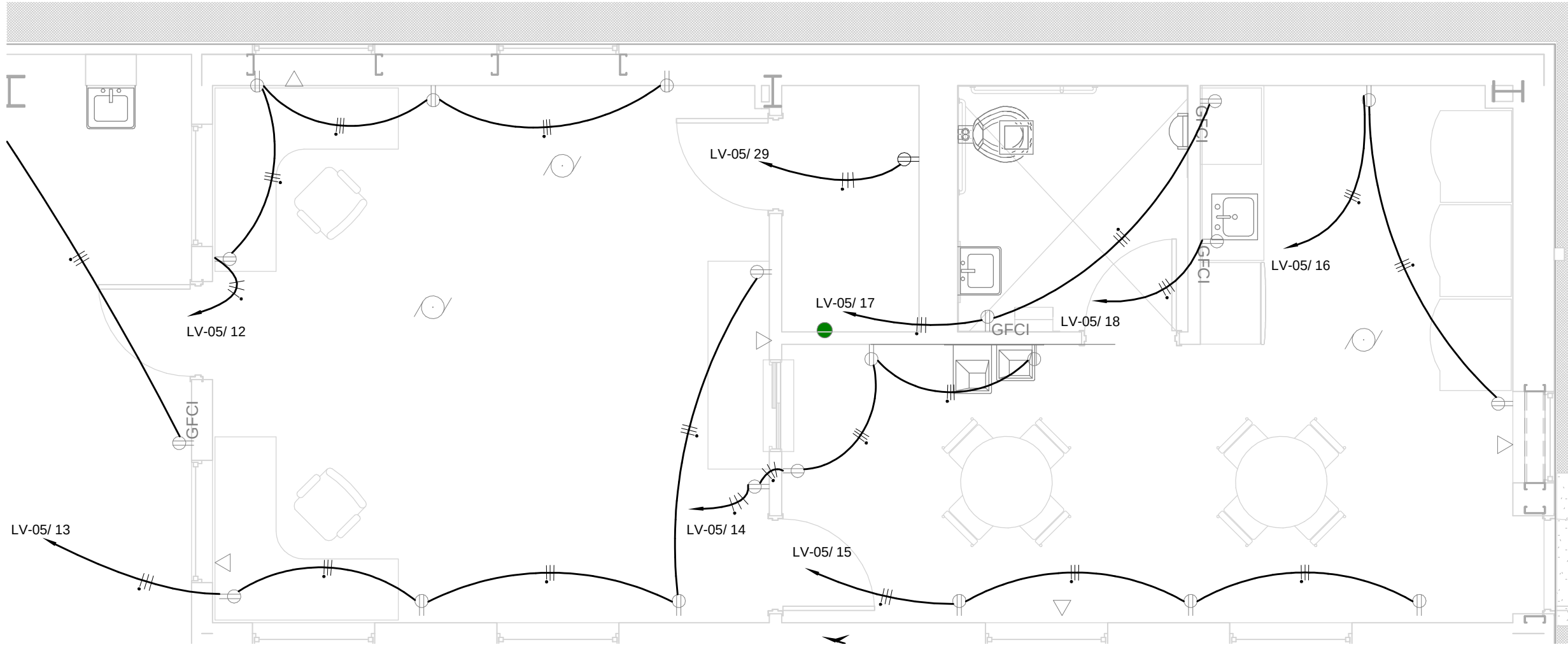
SHIPPING OFFICE & MID
PLANT BATHROOMS 1/ 4"
VIEW

FILE: 18810
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PROJ. NO: 18810
DATE: FEB 20, 2020
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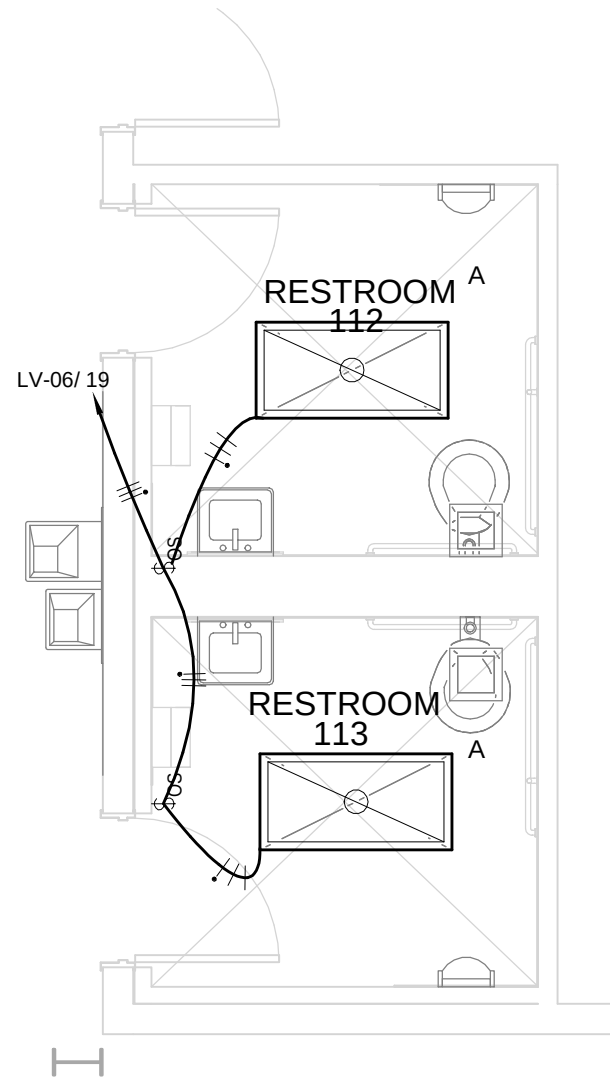
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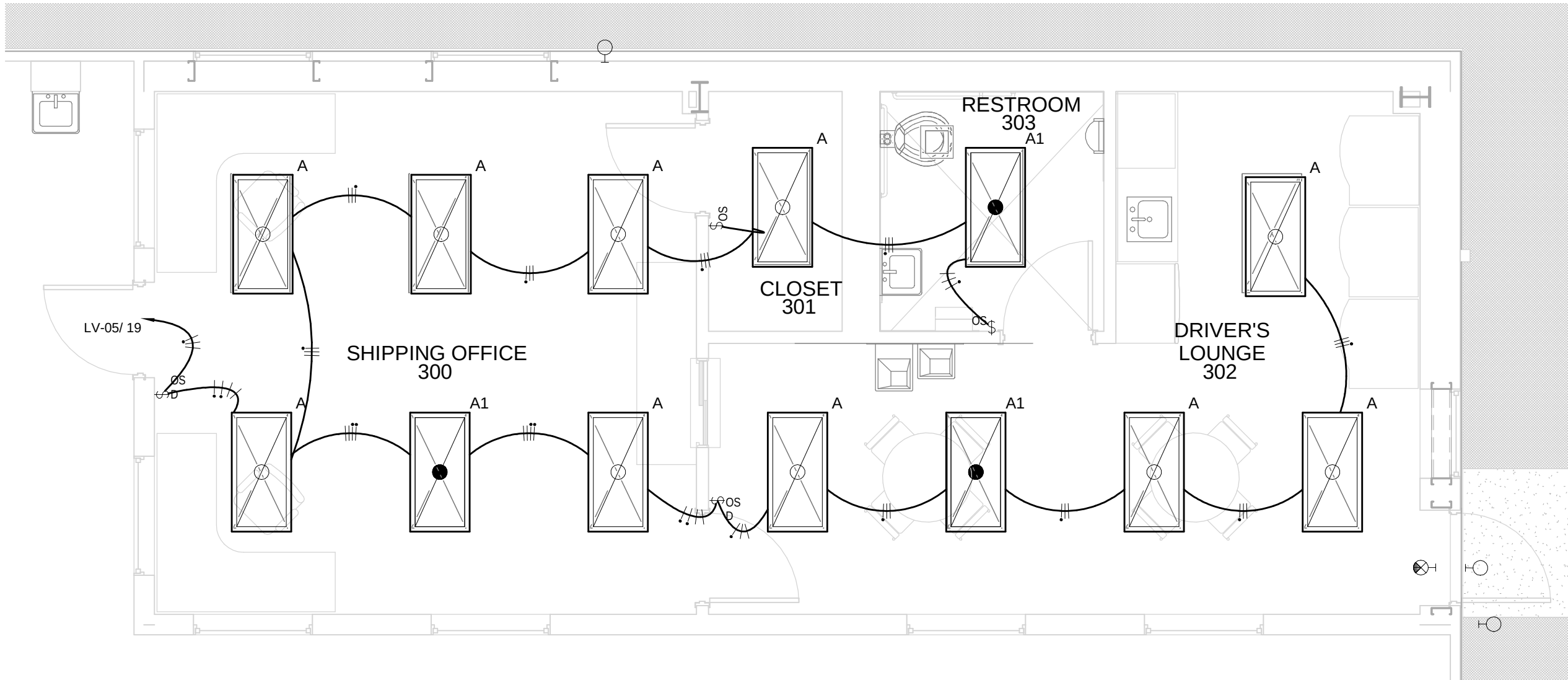
3 Mid Plant Restrooms Enlarged Power Plan
1/4" = 1'-0"



4 Shipping Office Enlarged Power Plan
1/4" = 1'-0"



2 Elect Lighting Enlarged Mid Plant Restrooms 1/4" View
1/4" = 1'-0"



1 Elect lighting Enlarged Shipping Office Area 1/4" View
1/4" = 1'-0"



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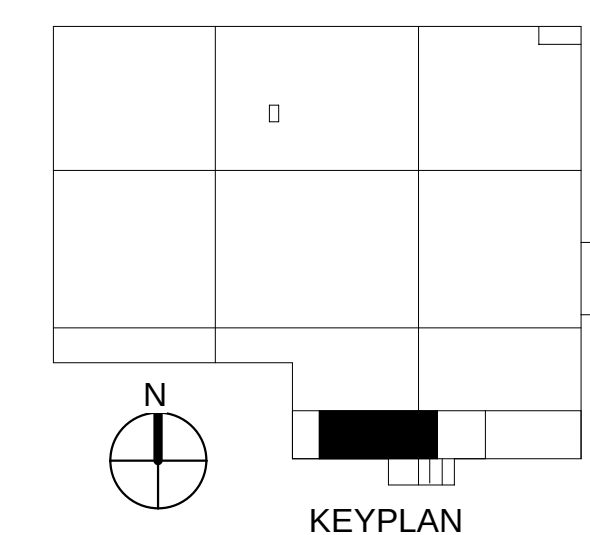
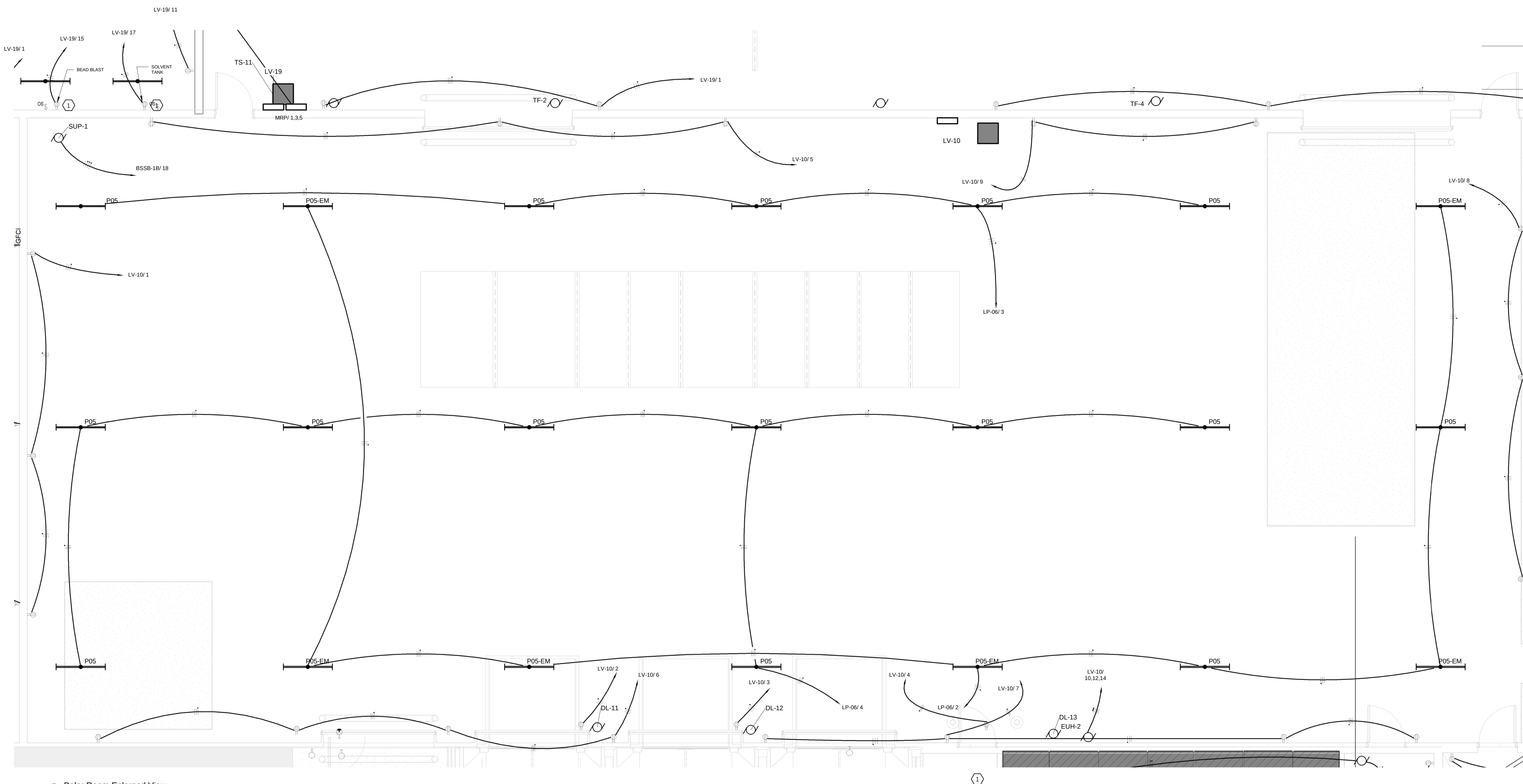
ELECTRICAL CONSTRUCTION PLAN SET
REV 3 ASI 11 2019.11.4

FINAL AS-BUILT PLAN SET
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BALER ROOM 1/ 4" VIEW

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1 Baler Room Enlarged View
1/4" = 1'-0"

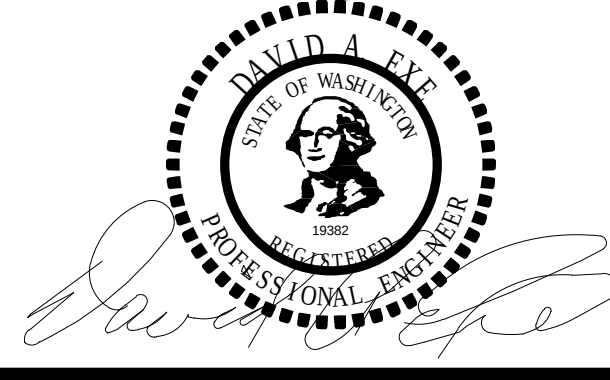


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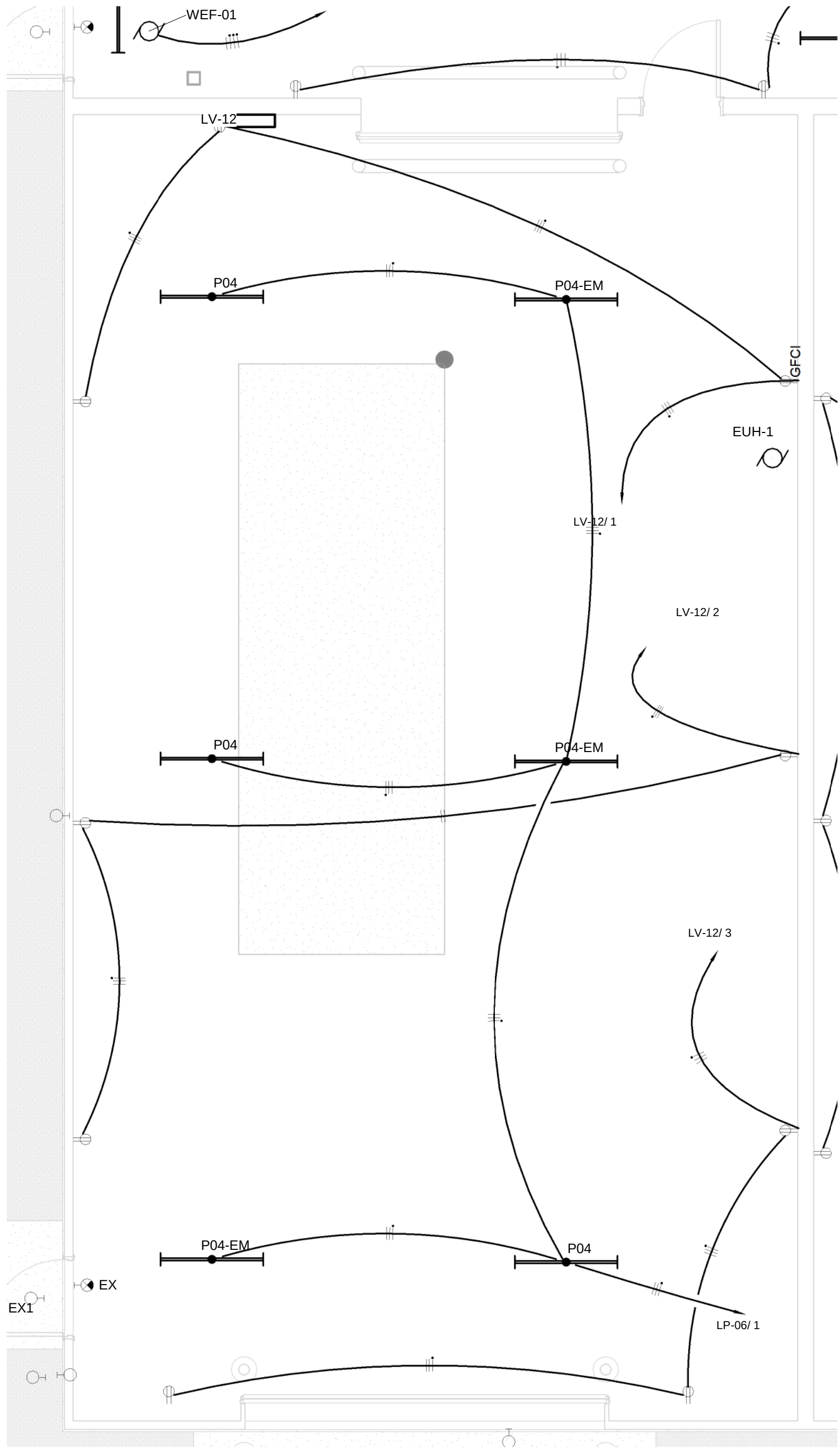
ELECTRICAL CONSTRUCTION PLAN SET
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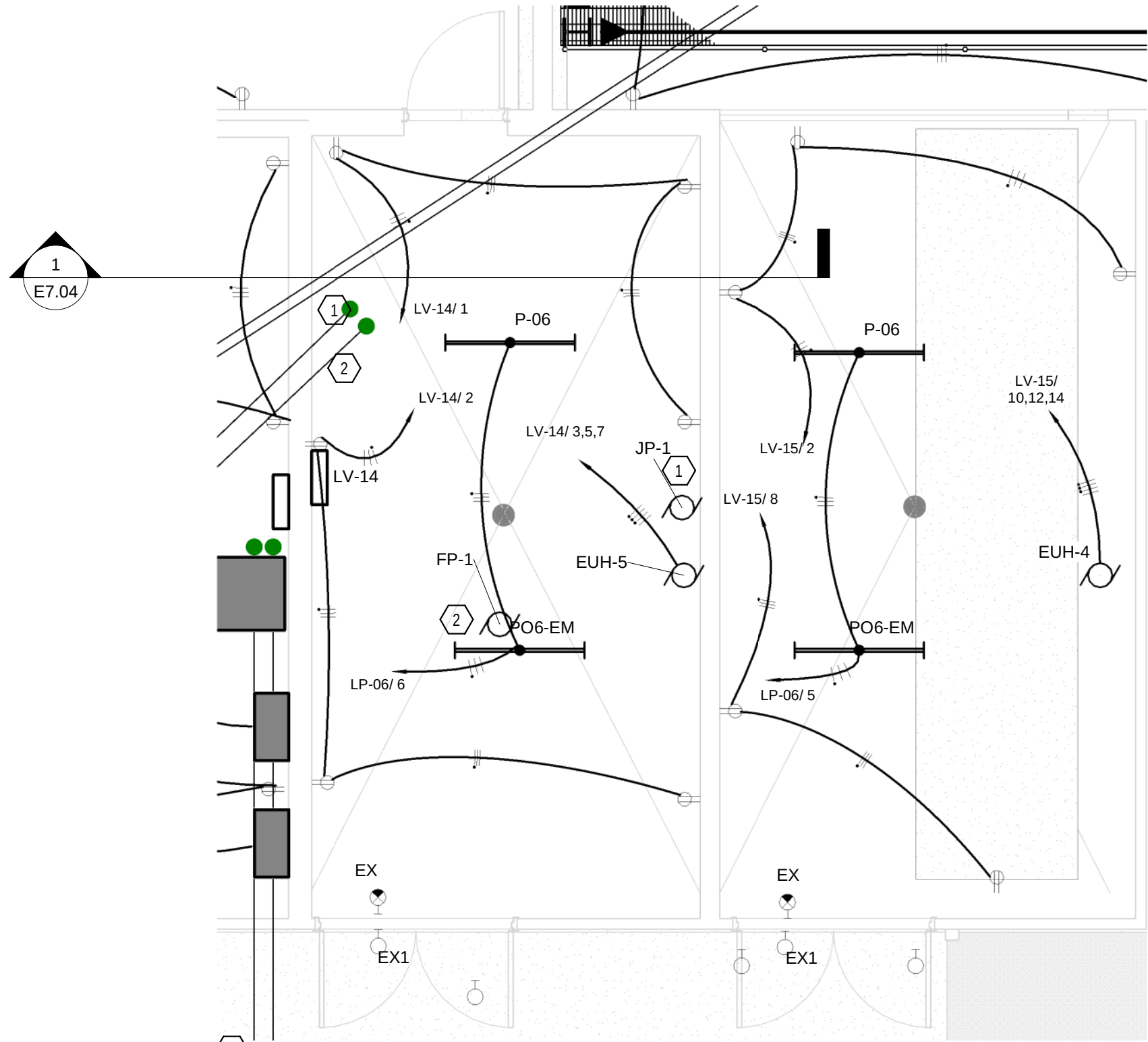
COMPRESSOR, BOILER
& FIRE PUMP ROOMS
1/4" VIEWS

FILE: 18810
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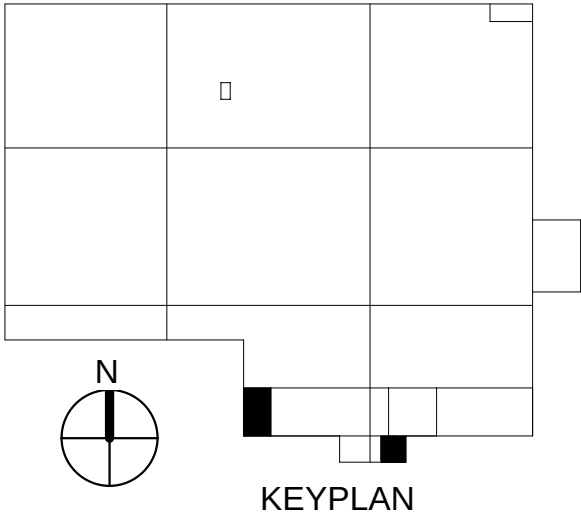
2 Boiler Room Enlarged View
1/4" = 1'-0"



1 Compressor & Fire Pump Rooms Enlarged View
1/4" = 1'-0"

ELECTRICAL KEYED NOTES

1. ELECTRICAL CONTRACTOR TO WIRE FROM BSSB-1B TO JOCKEY PUMP CONTROLLER AND FROM CONTROLLER TO JOCKEY PUMP.
2. ELECTRICAL CONTRACTOR TO WIRE FROM SHELLBETTER CABINET TO FIRE PUMP CONTROLLER AND FROM CONTROLLER TO FIRE PUMP.



BACKFLOW PREVENTER CABINET ELECTRICAL EQUIPMENT SCHEDULE										
ID	DESCRIPTION	SERVED FROM	VOLT	PHASE	Maximum Current	BREAKER	WIRE SIZE	DISCONN ECT	CONNECTED BY	NOT ES
H-01	ELECTRIC HEATER	LV-18	120 V	1	15 A	20 A	3/4"C,(2) #10 + GND	30	Elect Contractor	
H-02	ELECTRIC HEATER	LV-18	120 V	1	15 A	20 A	3/4"C,(2) #10 + GND	30	Elect Contractor	

ELECTRICAL KEYED NOTES

- ELECTRICAL CONTRACTOR TO INSTALL FULL BUILDING GROUND INCLUDING BONDING TO WATER LINE, TYING TO REBAR IN FOOTING OR PAD, & 10' GROUND ROD.
- CONTRACTOR TO SUPPLY 1X4 LENSED LED STRIP LIGHTS. COLLUMBIA CSL4-4035 4' LED STRIPLIGHT, 4,000 LUMENS, 3500K 40W OR EQUAL AND APPROVED.
- INSTALL DEDICATED GFCI RECEPTACLE FOR CONNECTION TO HEATERS. HANG HEATERS ON FACTORY PROVIDED PLATE AND PLUG INTO GFCI RECEPTACLE.

ELECTRICAL GENERAL NOTES

- ELECTRICAL CONDUCTORS TO BE (4) 1/0 COPPER WITH #2 EGC FEEDING PANEL LV-18.
- ELECTRICAL CONTRACTOR TO GOUND PER NEC 250 WITH SPECIFIC ATTENTION TO REQUIREMENTS FOR EGC CONNECTION AT THE BUILDING. SPECIFIC QUESTIONS REGARDING GROUNDING SHALL BE DIRECTED TO THE SITE ELECTRICAL ENGINEER.
- ELECTRICAL CONTRACTOR TO RUN DEDICATED 2" PVC CONDUIT IN UTILITY TRENCH FROM PANEL LV-01 WITH NEW 60A BREAKER IN ELECTRICAL ROOM TO BACKFLOW PREVENTER CABINET ELECTRICAL PANEL LV-18. PANEL LV-18 TO BE MOUNTED ON FREE STANDING UNISTRUT FRAME APPROXIMATELY 18" ADJACENT TO DOGHOUSE. ELECTRICAL CONDUITS FROM PANEL LV-18 TO DOGHOUSE SHALL BE UNDERGROUND FROM THE PANEL TO THE DOGHOUSE, RISE OUTSIDE THE DOGHOUSE AND PENETRATE THE DOGHOUSE WALL AT APPROXIMATELY 12" ABOVE GRADE. ELECTRICAL CONDUITS TO BE 3/4" MINIMUM.

Branch Panel: LV-18

Location: Backflow Preventer Building

Supply From: LV-01

Mounting: Surface

Enclosure: NEMA 4

Volts: 120/208 Wye

Phases: 3

Wires: 4

A.I.C. Rating: 22 KAIC

Mains Type: MCB

Mains Rating: 60 A

MCB Rating: 60 A

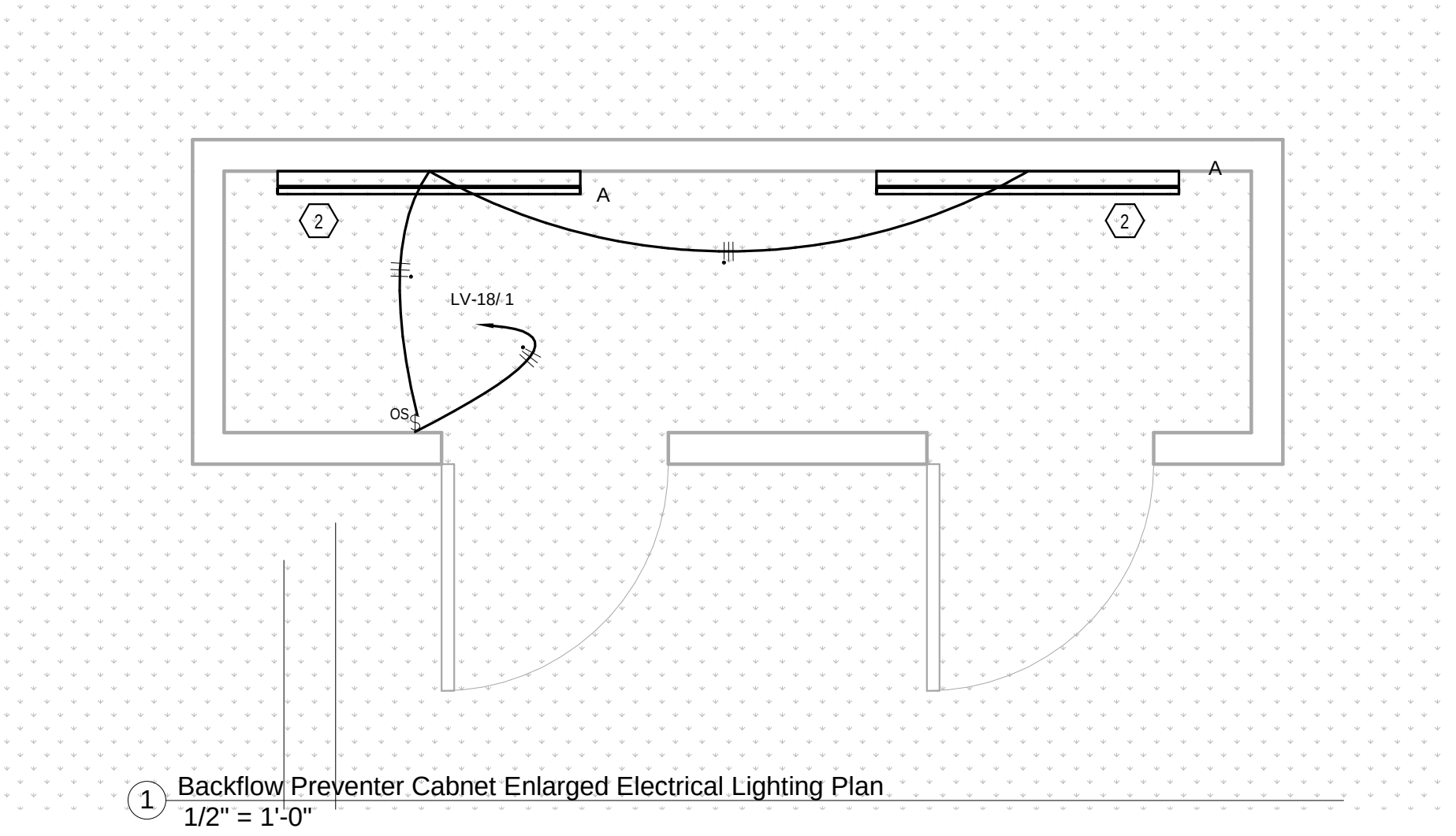
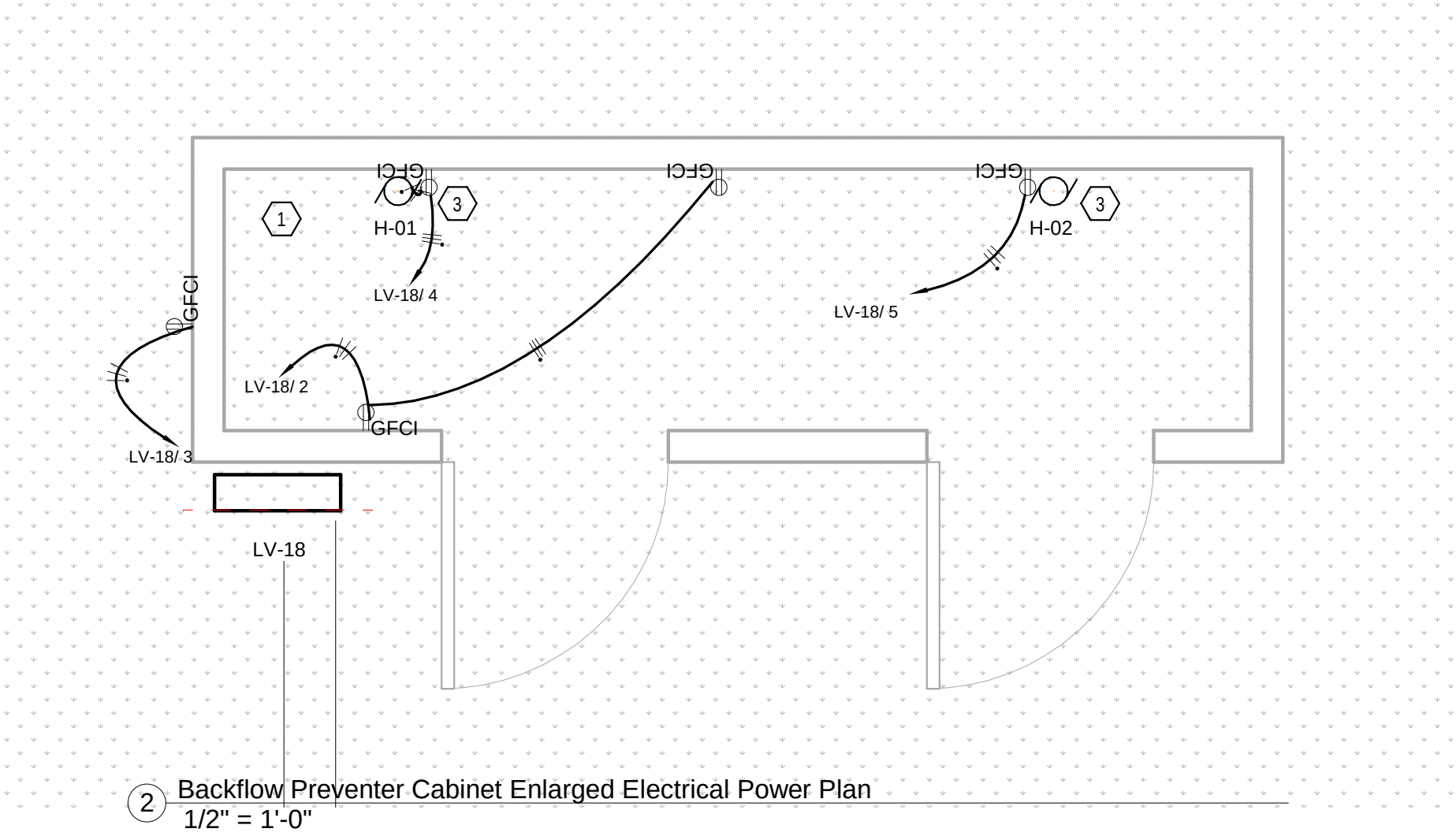
Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Lighting	20 A	1	200 VA	360 VA					1	20 A	Receptacle	2
3	Receptacle	20 A	1			180 VA	1947...			1	20 A	H-02 Electric Heater	4
5	H-01 Electric Heater	20 A	1					1947...	500 VA	1	20 A	SIGNAGE	6
7	SIGNAGE	20 A	1	500 VA									8
9													10
11													12
13													14
15													16
17													18
19													20
21													22
23													24
Total Load:				1060 VA		2099 VA		2379 VA					
Total Amps:				9 A		19 A		21 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Heating	3600 VA	100.00%	3600 VA		
Other	0 VA	0.00%	0 VA	Total Conn. Load:	5428 VA
Receptacle	900 VA	100.00%	900 VA	Total Est. Demand:	5428 VA
Power	1000 VA	100.00%	1000 VA	Total Conn.:	15 A
Lighting	200 VA	100.00%	200 VA	Total Est. Demand:	15 A

Notes:



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ELECTRICAL PERMIT PLAN SET
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FINAL AS-BUILT PLAN SET
 FEBRUARY 20, 2020

ENLARGED BACKFLOW
PREVENTOR BUILDING

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 DATE: FEB 20, 2020
 DRAWING NO:

E3.07

BIM 360/18810 PCA Richland WA Box Plant18810 PCA RichlandE-V19.rvt
2/21/2020 12:03:39 PM

Branch Panel: LV-19

Location: PRODUCTION AREA 100

Supply From: TS-11

Mounting: Surface

Enclosure: 1

Volts: 120/208 Wye

Phases: 3

Wires: 4

A.I.C. Rating: 22 KIA

Mains Type: MLO

Mains Rating: 200 A

MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle S Wall	20 A	1	720 VA	180 VA					1	20 A	Receptacle Band Saw	2
3	Receptacles Work Bench ES	20 A	1			720 VA	720 VA			1	20 A	Receptacles EC	4
5	Receptacles Work Bench NE corner	20 A	1					720 VA	720 VA	1	20 A	Receptacles Work Bench NC	6
7	Receptacles Work Bench NW	20 A	1	540 VA	360 VA					1	20 A	Receptacles NE corner	8
9	Lighting Maintenance Room	20 A	1			0 VA	180 VA			1	20 A	Receptacle	10
11	Receptacle ES	20 A	1					180 VA	0 VA				12
13					0 VA					3	100 A	Receptacle Welding Area	14
15	Receptacle S Bead Blast	20 A	1			180 VA	0 VA						16
17	Receptacle S Solvent Tank	20 A	1					180 VA	180 VA				18
19	Receptacle Grinder	20 A	2	180 VA	0 VA					2	20 A	Receptacle Drill Press	20
21						0 VA							22
23								600 VA					24
25	WEF-01 WELDING EXHAUST FAN	30 A	3	600 VA									26
					600 VA								28
													30
													32
													34
													36
													38
													40
41													42
Total Load:				2487 VA		2309 VA		2487 VA					
Total Amps:				21 A		19 A		21 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	0 VA	0.00%	0 VA		
Receptacle	5760 VA	100.00%	5760 VA	Total Conn. Load:	7282 VA
MTR	1801 VA	125.00%	2252 VA	Total Est. Demand:	7681 VA
				Total Conn.:	20 A
				Total Est. Demand:	21 A

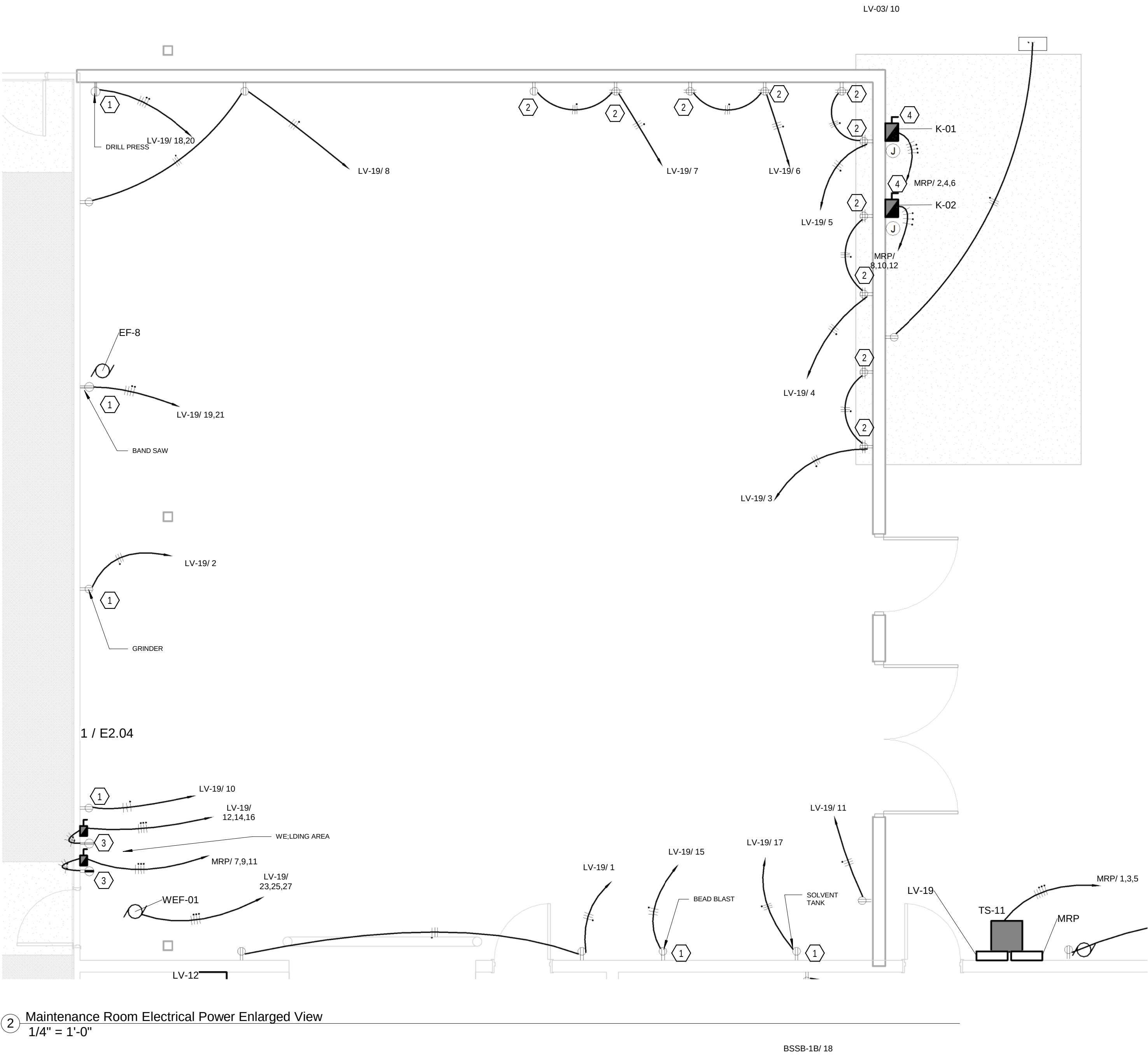
Notes:

ELECTRICAL KEYED NOTES

1. SPECIAL EQUIPMENT RECEPTACLE. PROVIDE 4"x4" J-BOX WITH 3 HOTS AND 1 NEUTRAL REGARDLESS OF SPECIFIC RECEPTACLE REQUIREMENT. COORDINATE RECEPTACLE WITH OWNER'S REPRESENTATIVE PRIOR TO ORDERING.
2. INSTALL RECEPTACLES IN 4"x4" J-BOX WITH 3/4" CONDUIT BETWEEN. INSTALL AT 9" ABOVE WORK BENCH, OR AS INSTRUCTED BY OWNER'S REPRESENTATIVE . COORDINATE WITH OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
3. PROVIDE 100A FUSED DISCONNECT WITH FUSES. AMPERAGE OF FUSES TO BE DETERMINED BY OWNER. PROVIDE 1" CONDUIT BACK TO PANEL WITH (4) #3 THHN + #8 GND.
4. PROVIDE A 480V/3P/30 DISCONNECT MOUNTED AT 48" AFF. CORDINATE EXACT LOCATION WITH OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.

ELECTRICAL GENERAL NOTES

1. INSTALL A DEDICATED GROUND FOR EACH CIRCUIT BACK TO ELECTRICAL PANEL. CONDUIT IS NOT TO BE RELIED UPON FOR GROUND.
2. MINIMUM SIZE CONDUIT FOR POWER RUNS IN MAINTENANCE ROOM SHALL BE 1" UNLESS SPECIFICALLY AUTHORIZED.
3. PROVIDE 12 SPARE 20A/1P BREAKERS IN PANEL LV-19.
4. FOR ELECTRICAL LOADS ON SOUTH AND WEST WALLS OF THE MAINTENANCE AREA THE CONTRACTOR SHALL ROUTE CONDUITS FROM PANELS "MRP" AND "LV-19" UP AND ALONG THE WALL IMMEDIATELY BENEATH THE PIPE RACK, DROPPING SURFACE DOWN THE WALL TO THE LOCATION OF THE ELECTRICAL DEVICE. CONDUIT SHALL BE SUPPORTED BY UNISTRUT. JUNCTION BOXES, DISCONNECTS AND DEVICES SHALL BE RIGIDLY ATTACHED TO THE WALL TO WITHSTAND TYPICAL MAINTENANCE AREA USE. CONDUITS MAY BE RUN HORIZONTALLY ALONG WALL BETWEEN ADJACENT DEVICES. 480V AND 208V CONDUCTORS SHALL NOT BE INCORPORATED IN THE SAME CONDUIT.
5. FOR ELECTRICAL LOADS ON THE NORTH EAST AND NORTH AREAS OF THE MAINTENANCE AREA THE CONTRACTOR SHALL ROUTE



② Maintenance Room Electrical Power Enlarged View
1/4" = 1'-0"



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FEB 20, 2020



NO	DATE	REVISION
6	2019.9.6	Schmitt Add Work #1
7	2019.10.7	Misc Electrical

PACKAGING CORPORATION OF AMERICA

3003 KINGSGATE WAY
RICHLAND, WA 99354
BOX MANUFACTURING PLANT

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ELECTRICAL PERMIT PLAN SET
ASI 002 2019.5.10

ELECTRICAL CONSTRUCTION PLAN SET
REV 3 ASI 11 2019.11.4

FINAL AS-BUILT PLAN SET
FEBRUARY 20, 2020

ENLARGED
MAINTENANCE ROOM
ELECTRICAL POWER
PLAN

FILE: 18810
DRAWN BY: DAE
CHECKED BY: DAE
PROJ. NO: 18810
DATE: FEB 20, 2020
DRAWING NO:

E3.08



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FEB 20, 2020



NO	DATE	REVISION
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ELECTRICAL PERMIT PLAN SET
ASI 002 2019.5.10

ELECTRICAL CONSTRUCTION PLAN SET
REV 3 ASI 11 2019.11.4

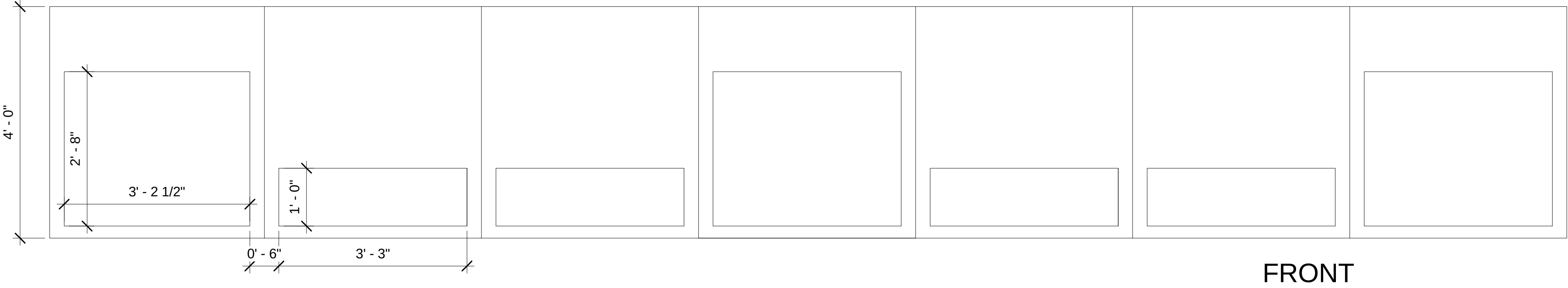
FINAL AS-BUILT PLAN SET
FEBRUARY 20, 2020

ELECTRICAL MAIN
SWITCHBOARD (MSB)
ELEVATIONS

FILE: 18810
DRAWN BY: DAE
CHECKED BY: DAE
PROJ. NO: 18810
DATE: FEB 20, 2020
DRAWING NO:

E4.01

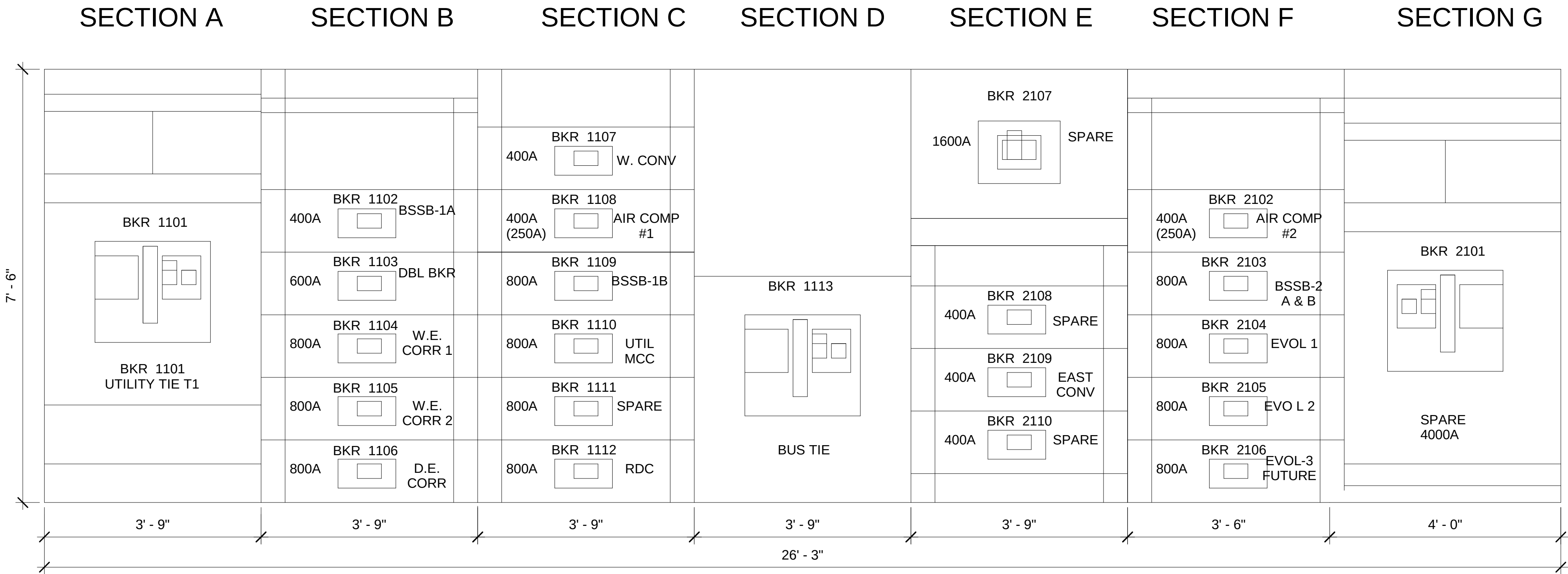
MSB TOP VIEW



REAR

FRONT

MSB-1





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FEB 20, 2020



NO	DATE	REVISION
1	2019.5.10	Elect Serv & HVAC
2	2019.06.18	ASI005 General Elect
3	2019.07.17	Misc Updates

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ELECTRICAL PERMIT PLAN SET
ASI 002 2019.5.10

ELECTRICAL CONSTRUCTION PLAN SET
REV 3 ASI 11 2019.11.4

FINAL AS-BUILT PLAN SET
FEBRUARY 20, 2020

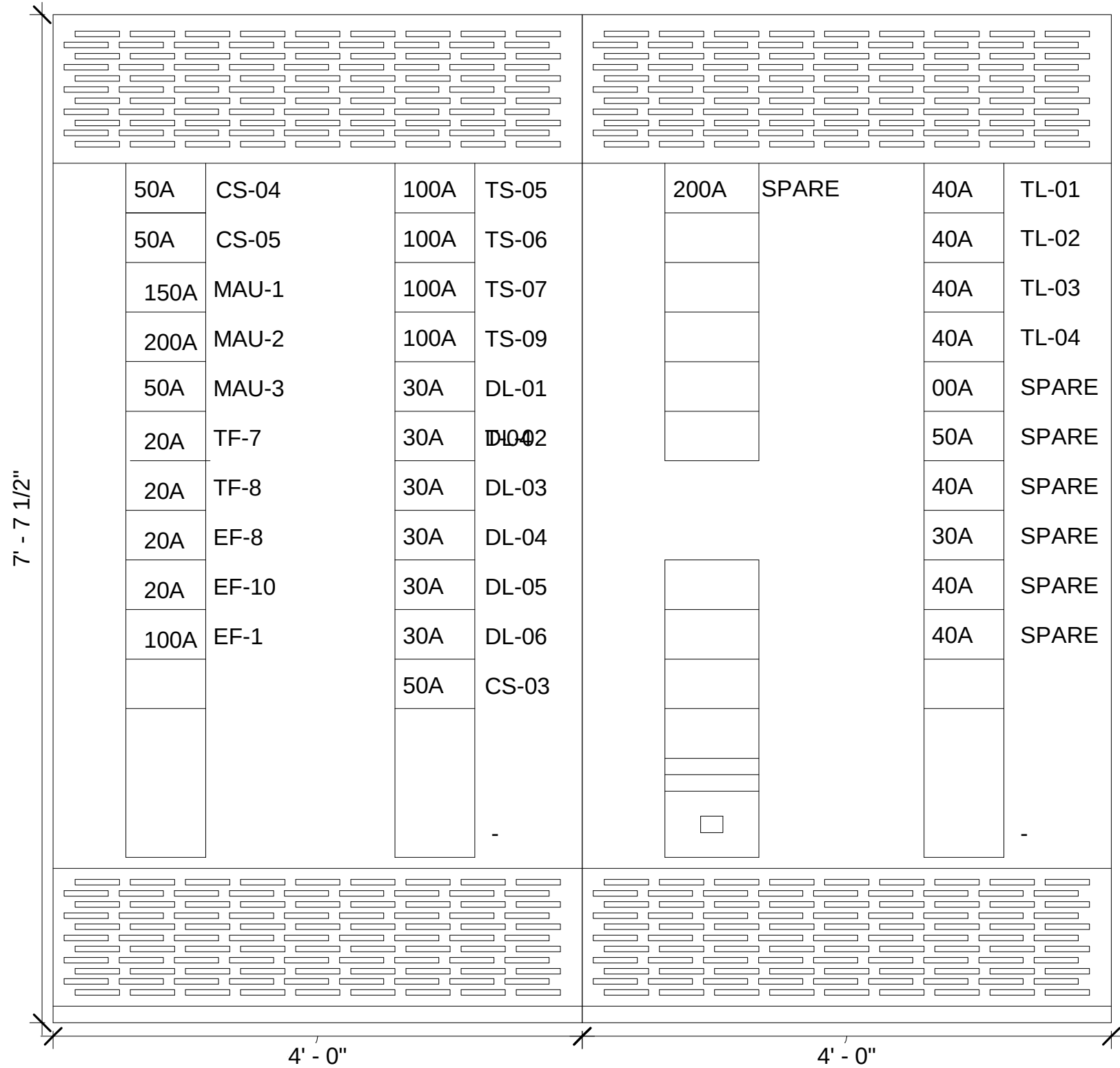
ELECTRICAL
DISTRIBUTION MCC &
BSSB ELEVATIONS

FILE: 18810
DRAWN BY: DAE
CHECKED BY: DAE
PROJ. NO: 18810
DATE: FEB 20, 2020
DRAWING NO:

E4.02

BSSB-2A

BSSB-2B



BSSB-1A

BSSB-1B

