

PENNSYLVANIA CONVENTION CENTER

SECOND LEVEL EXHIBIT HALLS A, B & C

COMPANY SWITCHES AND RECEPTACLES

GENERAL NOTES:

- WORK SHALL CONFORM TO THE CONTRACT DOCUMENTS WHICH INCLUDE THE OWNER/CONTRACT AGREEMENT, GENERAL AND SUPPLEMENTARY CONDITIONS, THE SPECIFICATIONS, THE DRAWINGS, AND ALL ADDENDA AND BULLETINS ISSUED BY THE OWNER OR ENGINEER.
- WORK SHALL CONFORM TO ALL CITY, COUNTY, STATE AND FEDERAL CONSTRUCTION, SAFETY, ACCESSIBILITY, AND SANITARY LAWS, CODES, STATUTES AND ORDINANCES. ALL DISCREPANCIES, VARIATIONS, OR OMISSIONS IN THE CONTRACT DOCUMENTS SHALL BE REPORTED PROMPTLY TO THE OWNER AND ENGINEER.
- THE CONTRACTOR SHALL COORDINATE, FILE, OBTAIN AND PAY FEES FOR BUILDING DEPARTMENT AND OTHER AGENCY APPROVALS, PERMITS AND INSPECTIONS. COPIES OF TRANSACTIONS ARE TO BE FORWARDED TO OWNER PRIOR TO COMMENCING WORK. CONTRACTOR SHALL POST ALL APPLICABLE BUILDING PERMITS IN A VISIBLE LOCATION READY FOR INSPECTION BY THE PROPER AUTHORITIES HAVING JURISDICTION.
- THE CONSTRUCTION AREAS SHALL REMAIN SECURE DURING CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS, DIMENSIONS AND DETAILS PRIOR TO CONSTRUCTION. THE ENGINEER AND OWNER SHALL BE NOTIFIED OF ALL DISCREPANCIES OR OMISSIONS WHICH WOULD INTERFERE WITH THE SATISFACTORY COMPLETION OF THE WORK, PRIOR TO THE START OF ALL WORK.
- DRAWINGS ARE NOT TO BE SCALED. PLANS ARE INTENDED TO BE DIAGRAMMATIC ONLY. THE WORK INDICATED ON THE DRAWINGS SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT AND APPLIANCES AND LABOR NECESSARY TO COMPLETE THE WORK. VERIFY ALL EQUIPMENT LOCATIONS WITH THE OWNER.
- INSTALL ALL EQUIPMENT AND MATERIALS PER MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFIED OTHERWISE OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- CONFIRM THE ORDERING AND DELIVERY DATES OF LONG LEAD ITEMS WITH THE OWNER TO INSURE AGAINST DELAYS IN PROJECT COMPLETION.
- THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, FOR THE COORDINATION OF WORK AND FOR THE WORK PERFORMED BY HIS SUBCONTRACTORS.
- PROTECT BUILDING PREMISES AND OCCUPANTS ON PROJECT SITE FROM DAMAGE WITH TEMPORARY PROTECTING COVERS AND BARRIERS, DUST PROOFING, AND SHORING, OR AS REQUIRED. REPAIR ANY DAMAGE IN SHORING AS REQUIRED. REPAIR ANY DAMAGE IN KIND AT NO ADDITIONAL COST TO THE PARTY AFFECTED.
- THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF AS-BUILT AND AS-INSTALLED DRAWINGS TO THE OWNER AT THE COMPLETION OF THE WORK. THIS CAN BE RED LINED VERSIONS OF THE CONTRACT DRAWINGS OR NEW DRAWINGS IN A FORM ACCEPTABLE TO THE OWNER.
- ALL WORK PERFORMED AND MATERIALS SHALL BE NEW AND MEET THE HIGHEST TRADE STANDARDS. AS A MINIMUM STANDARD, CONFORM WITH ALL SPECIFICATIONS AND APPLICABLE CODES, REGULATIONS AND ORDINANCES HAVING JURISDICTION.
- DIMENSIONS ARE TO FINISH SURFACES UNLESS NOTED OTHERWISE.
- WORK UNDER THIS CONTRACT INCLUDES GENERAL, AND ELECTRICAL CONSTRUCTION, RIGGING, AND TRANSPORTATION REQUIRED TO PERFORM THE WORK.
- THE WORD "INSTALL" OR "PROVIDE" MEANS FURNISH AND INSTALL NEW EQUIPMENT. EQUIPMENT THAT SHALL BE PROVIDED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
- ALL WORK SHALL BE PERFORMED WHILE THE BUILDING IS OCCUPIED. EXTREME CARE AND ALL NECESSARY PRECAUTIONS SHALL BE TAKEN BY THE CONTRACTOR TO MAINTAIN THE CLEANLINESS OF THE WORK AREA AND TO PREVENT DAMAGE TO NEW EQUIPMENT AND MATERIAL THAT WILL BE REUSED OR WILL REMAIN.
- THE CONTRACTOR SHALL ALLOW FOR WORK BEING PERFORMED BY OTHER CONTRACTORS AND SHALL COORDINATE WITH THE OWNER SO THAT NO WORK IS DELAYED.
- THE CONTRACTOR SHALL PROVIDE ALL REQUIRED ILLUMINATED BARRICADES, WARNING DEVICES, AND SAFETY EQUIPMENT OR DEVICES REQUIRED TO MAINTAIN A SAFE WORK ENVIRONMENT.
- PROVIDE ADHESIVE LABELS, OR PLASTIC NAMEPLATES, AS NOTED ON THE DRAWINGS, ON ALL NEW AND EXISTING EQUIPMENT AFFECTED BY THE WORK ON THIS PROJECT. ADHESIVE LABELS AND NAMEPLATES SHALL PROVIDE THE INFORMATION SHOWN ON THE DRAWINGS AND WHEN APPLICABLE, THE CIRCUIT NUMBER AND THE PANELBOARD WHICH FEEDS THE EQUIPMENT.
- CONTRACTOR SHALL FIRE STOP ALL PENETRATIONS THROUGH RATED CONSTRUCTION USING U.L. LISTED THROUGH PENETRATION FIRE STOPS, "3M" OR APPROVED EQUAL.
- MAINTAIN PERMANENT OR TEMPORARY EMERGENCY LIGHTING AND EXIT SIGNS IN OPERATION THROUGHOUT CONSTRUCTION.
- CONTRACTOR SHALL USE ULTRASONIC EQUIPMENT OR OTHER APPROVED METHOD TO ENSURE NO OBSTACLES ARE BELOW GRADE OR IN FLOORS PRIOR TO DRILLING OR CUTTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPAIRS INVOLVED WITH HITTING AN OBSTACLE DURING DIGGING AND CUTTING.

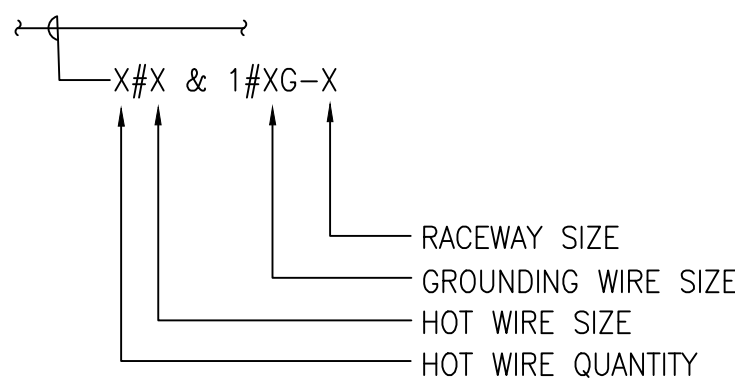
- ALL NEW FEEDERS SHALL BE MEGGER TESTED. THE RESULTS OF THE TEST SHALL BE PROVIDED TO THE ENGINEER AND THE OWNER.
- AS DIRECTED BY THE OWNER, THE CONTRACTOR SHALL PROVIDE A JOB SITE CONSTRUCTION OFFICE TRAILER, EQUIPMENT TRAILER AND PORT-A-POTTY FOR USE OF ITS PERSONNEL AND TO SECURE ITS MATERIAL AND EQUIPMENT PRIOR TO INSTALLATION. THE OWNER WILL PROVIDE A LOCATION WHERE THE CONTRACTOR CAN CONNECT TO A 120 VOLT ELECTRICAL CIRCUIT FOR THE EQUIPMENT TRAILER.
- ALL SHUTDOWNS MUST BE PLANNED WELL IN ADVANCE AND COORDINATED WITH THE OWNER. CONTRACTOR MUST PROVIDE A LIST OF ALL REQUIRED SHUTDOWNS WITH THEIR BID PACKAGE, INDICATING APPROXIMATE DATE OF SHUTDOWNS AND DURATION.
- CONDUIT LAYOUTS ARE DIAGRAMMATIC. EXACT LOCATIONS, ROUTING, AND MOUNTING HEIGHTS FOR CONDUIT INSTALLATION SHALL BE COORDINATED IN THE FIELD BY THE CONTRACTOR AND ARE SUBJECT TO APPROVAL BY THE OWNER.

ELECTRICAL SPECIFICATIONS:

- A MATERIAL AND EQUIPMENT SUPPLIED BY THE CONTRACTOR SHALL BE NEW UL LISTED AND INSTALLED IN ACCORDANCE WITH THE UL LISTING, THE APPLICABLE BUILDING AND FIRE CODES AND THE MANUFACTURE'S REQUIREMENTS AND TO OWNER'S SATISFACTION.
- THE CONTRACTOR SHALL PROVIDE MANUFACTURERS' CUT SHEETS FOR ALL MATERIAL IT IS PROVIDING FOR REVIEW AND APPROVAL BY OWNER'S PRIOR TO PURCHASING MATERIAL AND EQUIPMENT. ONLY MATERIAL APPROVED BY PACC SHALL BE INSTALLED ON THIS PROJECT.
- POWER WIRE SHALL BE THE GAUGES SHOWN ON THE DRAWING OR AS REQUIRED BY THE NEC, WHICHEVER IS LARGER, STRANDED COPPER NEC TYPE THHN/THWN AND SHALL BE INSTALLED WITHOUT SPLICES UNLESS NOTED OTHERWISE. WIRES SHALL BE THE COLORS SHOWN ON THE TABLE ON THIS DRAWING OR SHALL BE LABELED WITH THE COLORS SHOWN ON THE TABLE ON THIS DRAWING FOR SIZES WHERE COLOR WIRE IS NOT READILY AVAILABLE.
- POWER WIRE TERMINATION LUGS SHALL BE HIGH COPPER ALLOY, MECHANICAL TYPE AND SUITABLE FOR THE INSTALLATION.
- JUNCTION AND PULL BOXES SHALL BE GALVANIZED STEEL, UL LISTED OR LABELED WITH GALVANIZED STEEL COVER PLATES AND SHALL BE GROUNDED IN ACCORDANCE WITH THE NEC. PROVIDE GROUNDING WIRE AND HIGH COPPER ALLOY GROUNDING LUGS AND HARDWARE.

FEEDER COLOR TABLE		
PHASE/VOLTAGE	208/120 VOLTS	480/277 VOLTS
PHASE A	BLACK	BROWN
PHASE B	RED	ORANGE
PHASE C	BLUE	YELLOW

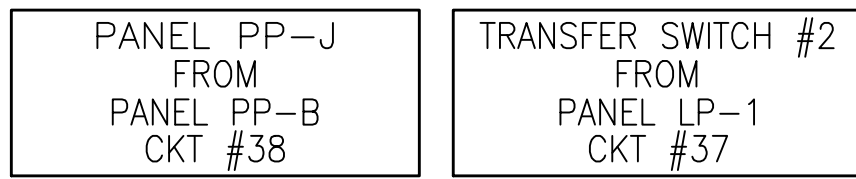
LEGEND



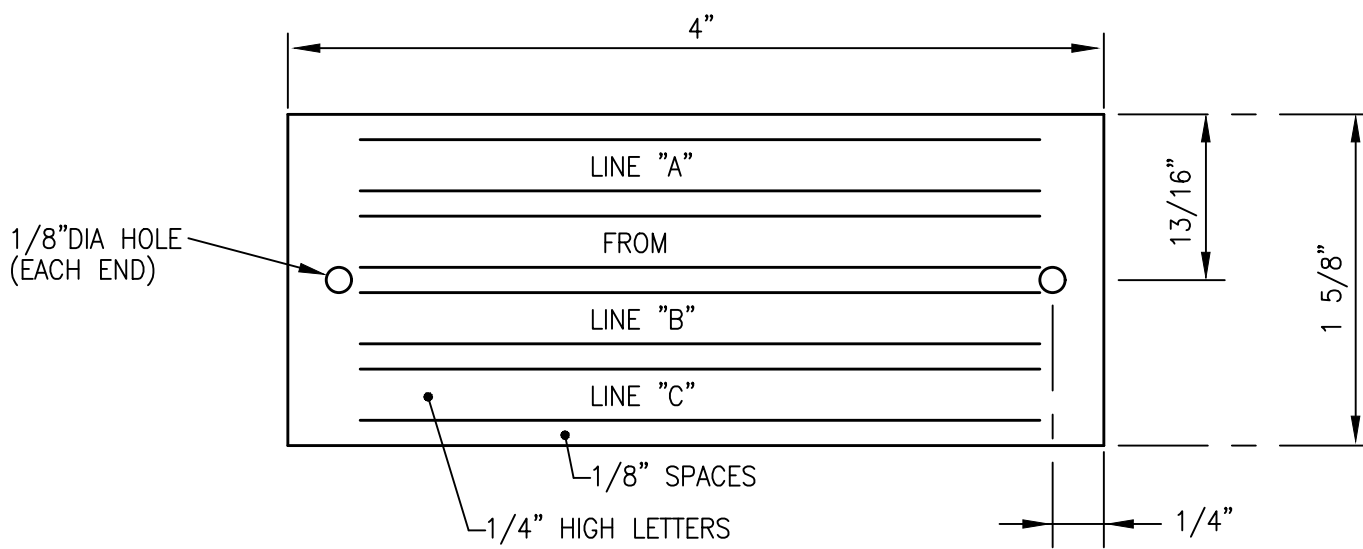
SCOPE OF WORK

- THE ELECTRICAL CONTRACTOR SHALL PREPARE JOB SAFETY PLANS IN ACCORDANCE WITH THE REQUIREMENTS DEFINED IN NFPA 70E – 2024 PRIOR TO PERFORMING ANY WORK ON ENERGIZE ELECTRICAL PARTS, EQUIPMENT, OR CONDUCTORS. THIS INCLUDES VERIFYING THE ELECTRICAL PARTS, EQUIPMENT AND CONDUCTORS ARE IN AN ELECTRICALLY SAFE WORK CONDITION.
- FURNISH AND INSTALL THREE (3) – 400 AMP, 208/120 VOLT COMPANY SWITCHES WITH, COMPANY SWITCH CATALOG NUMBER DS-400-6W-C OR APPROVED EQUAL.
- THE COMPANY SWITCHES, PROVIDING UNISTRUT AND OR OTHER PACC APPROVED MOUNTING BRACKETS, SHALL BE LOCATED IN THE AREAS SHOWN ON THE DRAWINGS. THE COMPANY SWITCHES SHALL BE MOUNTED IN A POSITION THAT READILY ENABLES THE CONNECTION OF LOAD CABLES USING A MAN-LIFT. CONNECTION OF LOAD CABLES, WHICH IS NOT PART OF THE SCOPE OF WORK, WILL ONLY BE DONE WITH THE COMPANY SWITCHES CIRCUIT BREAKER IN THE OFF POSITION.
- FURNISH AND INSTALL A NAMEPLATE STATING "TURN OFF THE CIRCUIT BREAKER AND CONFIRM THAT THE "A", "B" AND "C" LEADS ARE OFF BEFORE AND DURING THE CONNECTION OF EXTERNAL CABLES" ON EACH OF THE COMPANY SWITCHES.
- FURNISH AND INSTALL A NEW 208/120 VOLT, 400 AMP, 3Ø FEEDER WITH A DOUBLE NEUTRAL, (5#500 MCM & 1#2G – 3 1/2" EMT FROM A SPARE 400 AMP CIRCUIT BREAKER IN UNIT SUBSTATION 9 TO EACH OF THE THREE (3) COMPANY SWITCHES. NOTE THAT THIS WORK WILL REQUIRE A JOB SAFETY PERMIT.
- FURNISH AND INSTALL TWO (2) 100 AMP, 240 VOLT, 3P, 4W FUSED BUS DUCT DISCONNECT SWITCH, EACH WITH THREE (3) 100 AMP, CLASS R, 200,000 AMP AIC FUSES INTO THE EXISTING 208/120V, 3P, 4W BUS DUCT. PLUG-IN SWITCHES SHALL BE NEW OR REFURBISHED AND SUITABLE FOR THE EXISTING PLUG-IN BUSDUCT. FUSES SHALL BE NEW.
- FURNISH AND INSTALL FOUR (4) – 100 AMP, 208/120 VOLT, 1Ø, 3W, 12 SPACE LOAD CENTER WITH 80 AMP, 2 POLE, 10KA IC, MAIN CIRCUIT BREAKER AND TWELVE (12) – 20 AMP, 1 POLE BRANCH CIRCUIT BREAKERS, SQUARE D TYPE QO OR EQUAL.
- FURNISH AND INSTALL NEW 80 AMP FEEDERS (4#4 & 1#BG – 1 1/2" EMT) FROM THE FUSED BUS DUCT DISCONNECT SWITCHES TO THE NEW LOAD CENTERS AS DIAGRAMMATICALLY SHOWN IN THE DRAWINGS.
- FURNISH AND INSTALL THIRTY-SIX (36) – RECEPTACLE STATIONS AS DETAILED IN THE DRAWINGS AND CONSTRUCTED OF 2 GANG DEVICE (PAINTED) BOXES WITH METAL (PAINTED) COVER PLATES HAVE SPECIFICATION GRADE 20 AMP, 120 VOLT RECEPTACLES MANUFACTURED BY HUBBELL OR EQUAL.
- FURNISH AND INSTALL THIRTY-SIX (36) – 20 AMP, 120 VOLT, 3 WIRE BRANCH CIRCUITS IN PAINTED (WHERE EXPOSED) EMT FROM THE NEW LOAD CENTERS TO THE RECEPTACLE STATIONS IN THE LOCATIONS SHOWN IN THE DRAWING AND AS APPROVED BY THE PACC PRIOR TO INSTALLATION.

DRAWING LIST			
DRAWING NUMBER	DESCRIPTION	DATE	REV.
E-1	GENERAL PROJECT INFORMATION AND DRAWING LIST	9/20/24	0
E-2	ELECTRICAL INSTALLATION PLAN	9/20/24	0
E-3	COMPANY SWITCHES ELECTRICAL ELEVATIONS AND DETAILS	9/20/24	0
E-4	ELECTRICAL ELEVATION AND DETAILS	9/20/24	0
E-5	PANEL SCHEDULES	9/20/24	0

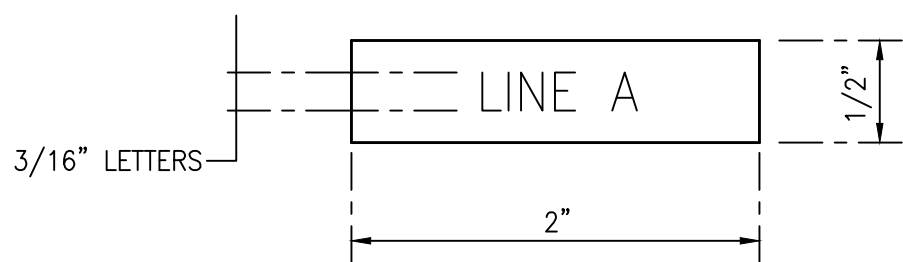


SAMPLE NAMEPLATES



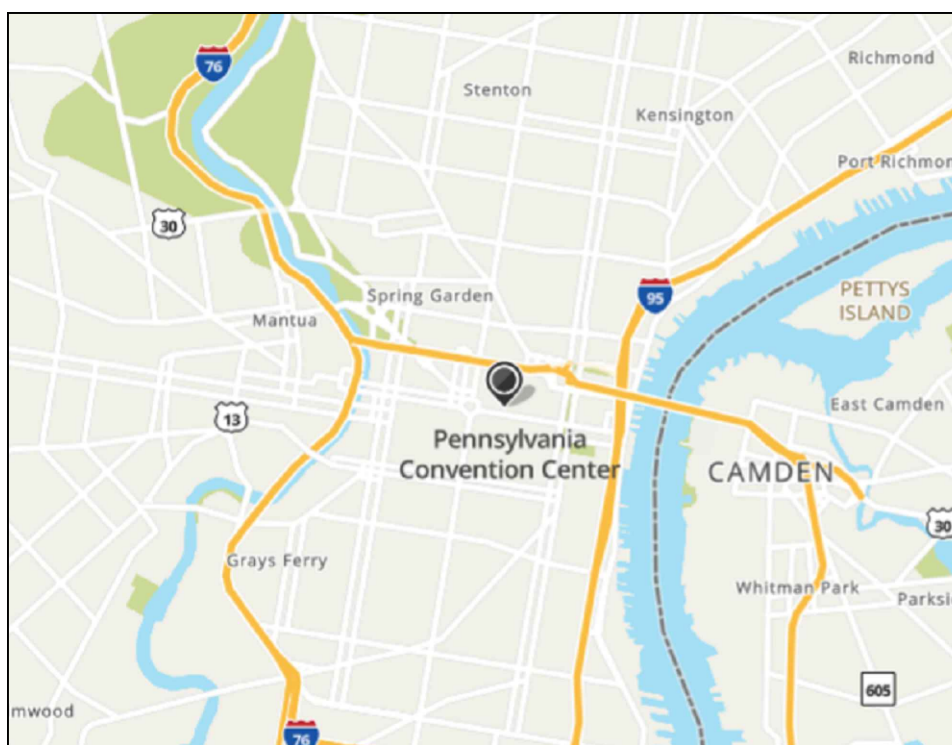
- NAMEPLATES SHALL BE 4" x 1 5/8" x 1/16" THICK TWO PLY "GRAVOPLY", BACKGROUND AND LETTER COLORS AS INDICATED IN NOTE 4 OF DETAIL 2/E6.
- LETTERS SHALL BE ENGRAVED BLOCK TYPE 1/4" HIGH, MAXIMUM 21 TO A LINE.
- NAMEPLATES SHALL BE ATTACHED TO EQUIPMENT WITH POP RIVETS.
- LETTERING SHALL BE AS FOLLOWS:

LINE "A" – EQUIPMENT IDENTIFICATION (PANEL NUMBER, FAN OR PUMP NUMBER, ETC).
LINE "B" – POWER SOURCE (PANEL NUMBER, BUS DUCT LOCATION, ETC).
LINE "C" – ADDITIONAL INFORMATION (XFMR SIZE, CIRCUIT NUMBER, ETC).



- NAMEPLATES SHALL BE 2" x 1 1/2" x 1/16" THICK TWO PLY "GRAVOPLY", BACKGROUND COLOR AND LETTER COLOR AS INDICATED IN NOTE 4.
- LETTERS SHALL BE ENGRAVED BLOCK TYPE 3/16" HIGH, MAXIMUM 20 TO A LINE.
- NAMEPLATES SHALL BE ATTACHED TO SWITCH OR RECEPTACLE PLATE WITH DOUBLE STICK TAPE.
- NAMEPLTE AND LETTER COLORS SHALL BE AS FOLLOWS:
NORMAL POWER – WHITE BACKGROUND WITH BLACK LETTERS
STANDBY POWER – YELLOW BACKGROUND WITH BLACK LETTERS
UPS POWER – ORANGE BACKGROUND WITH WHITE LETTERS

1 E1 NAMEPLATES FOR ELECTRICAL EQUIPMENT SCALE: NONE



2 E1 SITE LOCATION MAP SCALE: NONE

OWNER:	PENNSYLVANIA CONVENTION CENTER
ENGINEER:	Joseph F. Maida, P.E. 215-353-6110 Jmaida@maidaeng.com
SITE:	SEISMIC DESIGN CATEGORY IS "B"

REVISIONS

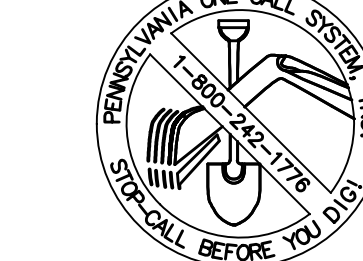
ISSUE	DATE	REVISIONS



PENNSYLVANIA ONE-CALL SYSTEM, INC.

ONE-CALL SERVICE, PENNSYLVANIA
800-222-1776

RESTORE YOU DIG ANYWHERE IN PENNSYLVANIA! CALL 1-800-242-1776



NON-MEMBERS MUST BE CONTACTED DIRECTLY
NOTICE TO REGISTERED BUSINESS YOU CANAVAIL
TRAIL, BLAST OR CONDUIT

PA ONE-CALL NUMBER (FOR DESIGN ONLY): XXXXXXXXXX

DPP PROJECT COORDINATOR: XXXXXXXXXX

SEAL:



CONSULTING ENGINEERS
Philadelphia Office
1315 Walnut Street
Suite 804
Philadelphia, PA 19107
(215) 542-8700

PROJECT NO.	E46013	DATE
PROJECT ENG.	JFM	8/5/24
CHECKED		

DPP PROJECT NUMBER: XX-XX-XXXX-XX

PROJECT TITLE: SECOND LEVEL EXHIBIT HALLS A, B & C COMPANY SWITCHES AND RECEPTACLES

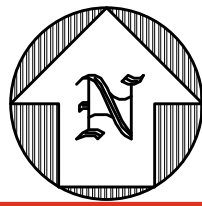
PHASE: XXXXXX

DRAWING TITLE: GENERAL PROJECT INFORMATION AND DRAWING LIST

PACC PROJECT NO.:	XX-XX-XXXX-XX	DRAWING NO.:
CONSULTANT PROJECT NO.:	XXXX-XXXX	
DATE:	08-5-2024	
SCALE:	NONE	
DRAWN BY:	LPI	
CHECKED BY:	JFM	

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

E1



RACE STREET

ELECTRICAL ROOM #1
SUBSTATION #9
SEE ELEVATION #1 ON
DRAWING E-3.

Hall C Storage

FREIGHT
ELEV #18

FREIGHT
ELEV #15

Hall A Storage

PANEL RP-A9
120/240V, 1Ø, 3W
(COLUMN A9)

4#4 & 1#8G-1 1/2"Ø

100A, 3P C/B
PLUG-IN
BUS PLUG

4#4 & 1#8G-1 1/2"Ø

11TH STREET

LEGEND

BD #XX → 800A, 120/208V BUS DUCT

BD #XX → 1000A, 277/480V BUS DUCT

- (1) 20A, 120V DUPLEX RECEPTACLE &
- (1) 20A, 120V, L5-20 TWIST-LOCK RECEPTACLE IN DOUBLE GANG BOX
- CIRCUIT NUMBER

Exhibit Hall C

Exhibit Hall B

Exhibit Hall A

4#4 & 1#8G-1 1/2"Ø

PANEL RP-A12
120/240V, 1Ø, 3W
(COLUMN A12)
SEE DETAIL #4 ON
DWG. E4

BASE BID

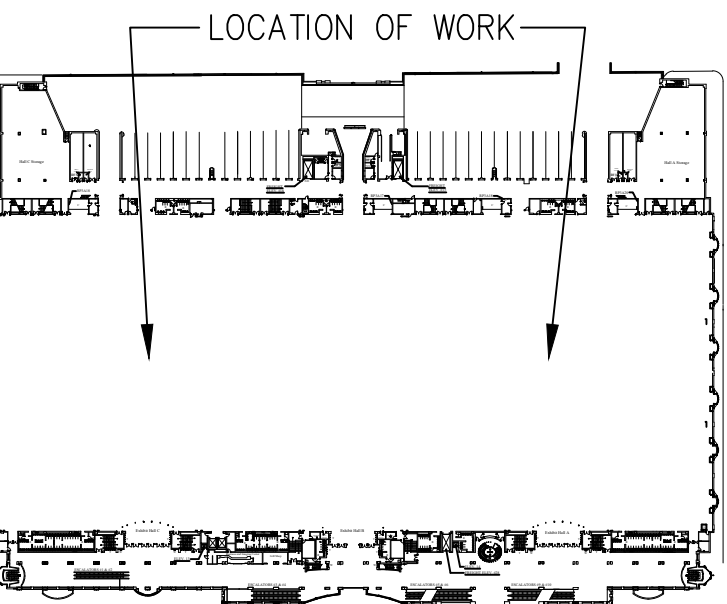
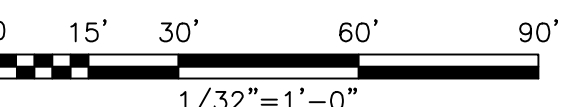
ADD ALTERNATE NO. 1

ARCH STREET

1 SECOND FLOOR INSTALLATION PLAN

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

GRAPHIC SCALE



SECOND FLOOR - KEY PLAN

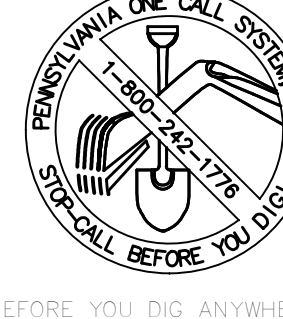
REVISIONS		
ISSUE	DATE	REVISIONS



Pennsylvania
Convention Center
PHILADELPHIA

PENNSYLVANIA ONE CALL SYSTEM, INC.

925 Main Run Road
West Mifflin, Pennsylvania
15122 - 1078



BEFORE YOU DIG ANYWHERE IN
PENNSYLVANIA, CALL 1-800-242-1776
PA LAW REQUIRES THREE WORKING DAYS
NOTICE TO RESTART BEFORE YOU DIAL.AVAIL-
E (CALL, BLAST OR DEMO)SH

PA ONE-CALL NUMBER (FOR DESIGN ONLY):

XXXXXXXXXX

DPP PROJECT COORDINATOR:

XXXXXXXXXX

SEAL:



CONSULTING ENGINEERS
Philadelphia Office
1315 Walnut Street
Suite 804
Philadelphia, PA 19107
(215) 542-8700

PROJECT NO. E46013	DATE
PROJECT ENG. JFM	8/5/24
CHECKED	

DPP PROJECT NUMBER

XX-XX-XXXX-XX

PROJECT TITLE:

SECOND LEVEL
EXHIBIT HALLS A, B & C
COMPANY SWITCHES AND RECEPTACLES

PHASE:

XXXXX

DRAWING TITLE:

COMPANY SWITCHES AND RECEPTACLES
ELECTRICAL INSTALLATION PLAN
SECOND LEVEL (LEVEL 63)

PAGE PROJECT NO.: XX-XX-XXXX-XX	DRAWING NO.:
CONSULTANT PROJECT NO.: XXXX-XXXX	E2
DATE: 08-5-2024	
SCALE: AS NOTED	
DRAWN BY: LPI	
CHECKED BY: JFM	

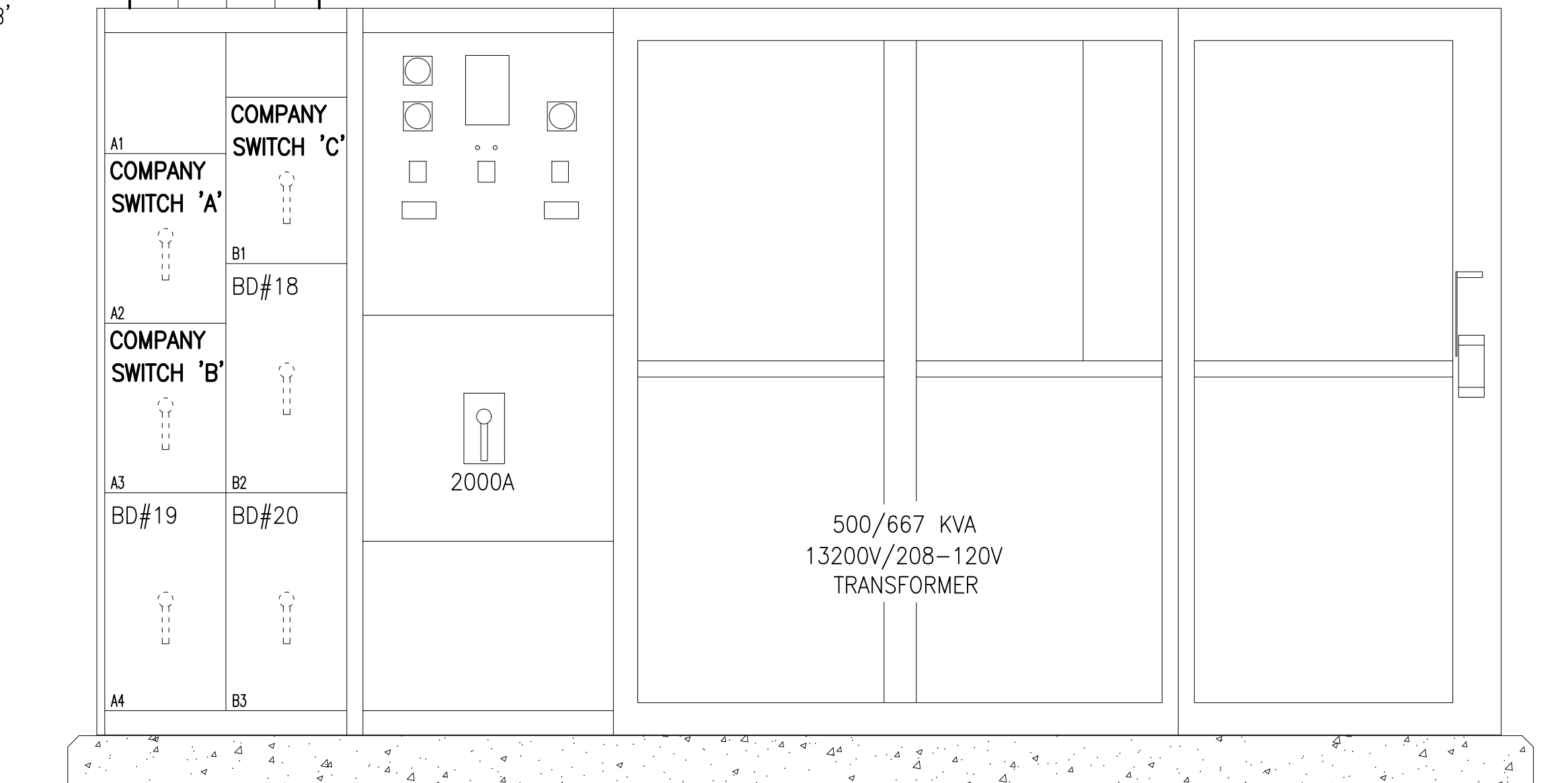
NOTE:

ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

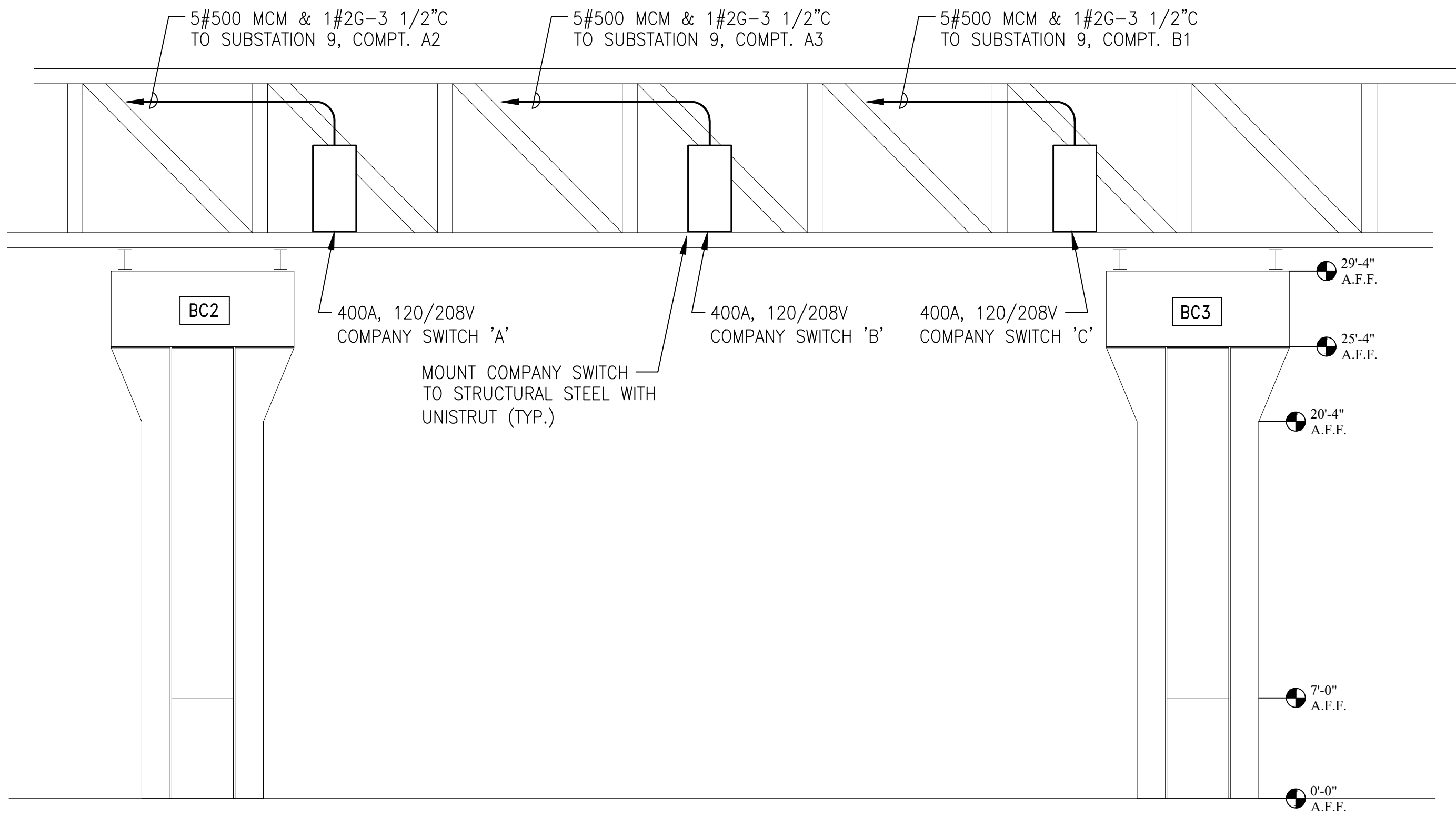
5#500 MCM & 1#2G-3 1/2"C
FROM SPARE 400A CIRCUIT BREAKER
IN COMPT A2 TO COMPANY SWITCH 'A'

5#500 MCM & 1#2G-3 1/2"C
FROM SPARE 400A CIRCUIT BREAKER
IN COMPT B1 TO COMPANY SWITCH 'C'

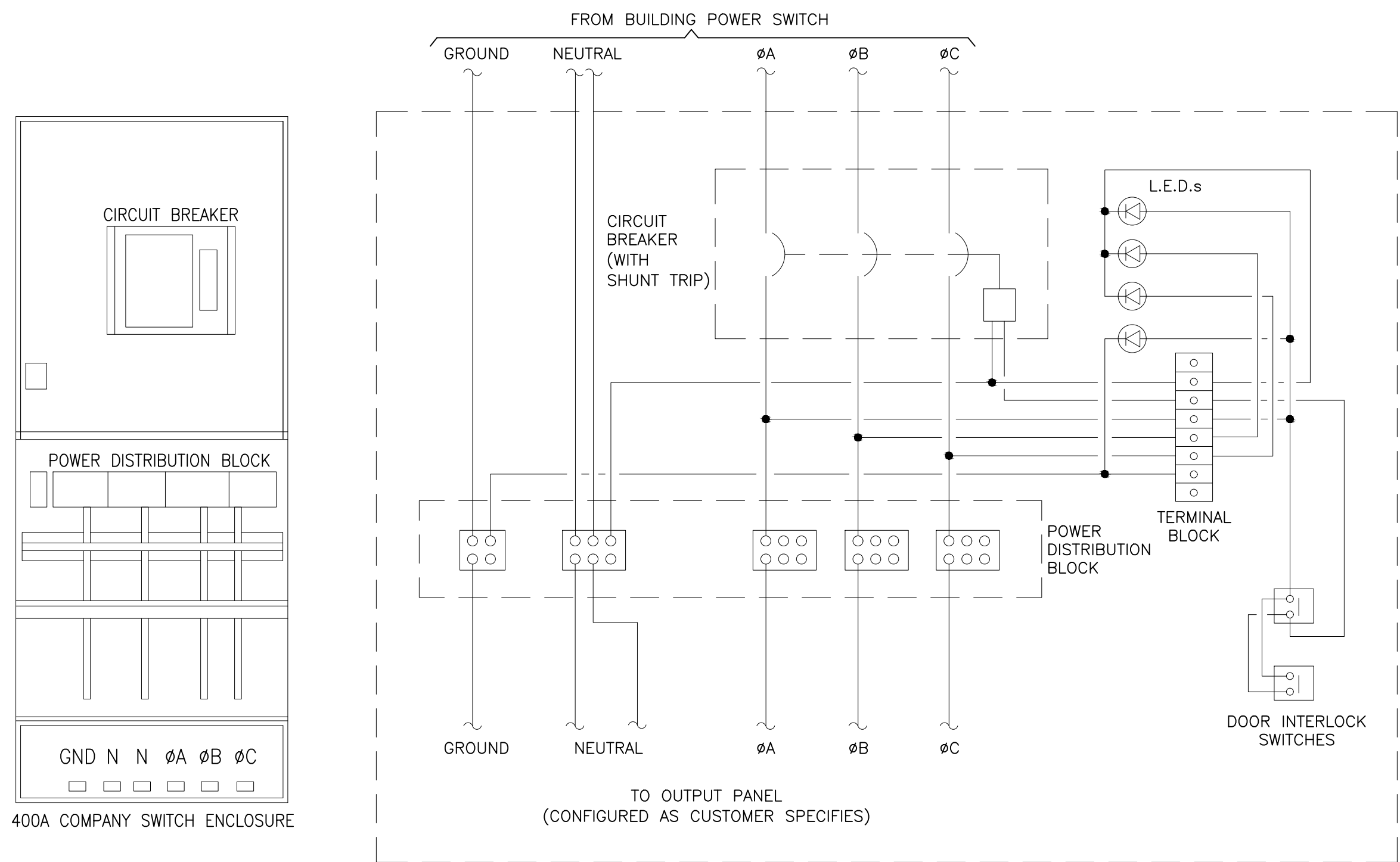
5#500 MCM & 1#2G-3 1/2"C
FROM SPARE 400A CIRCUIT BREAKER
IN COMPT A3 TO COMPANY SWITCH 'B'



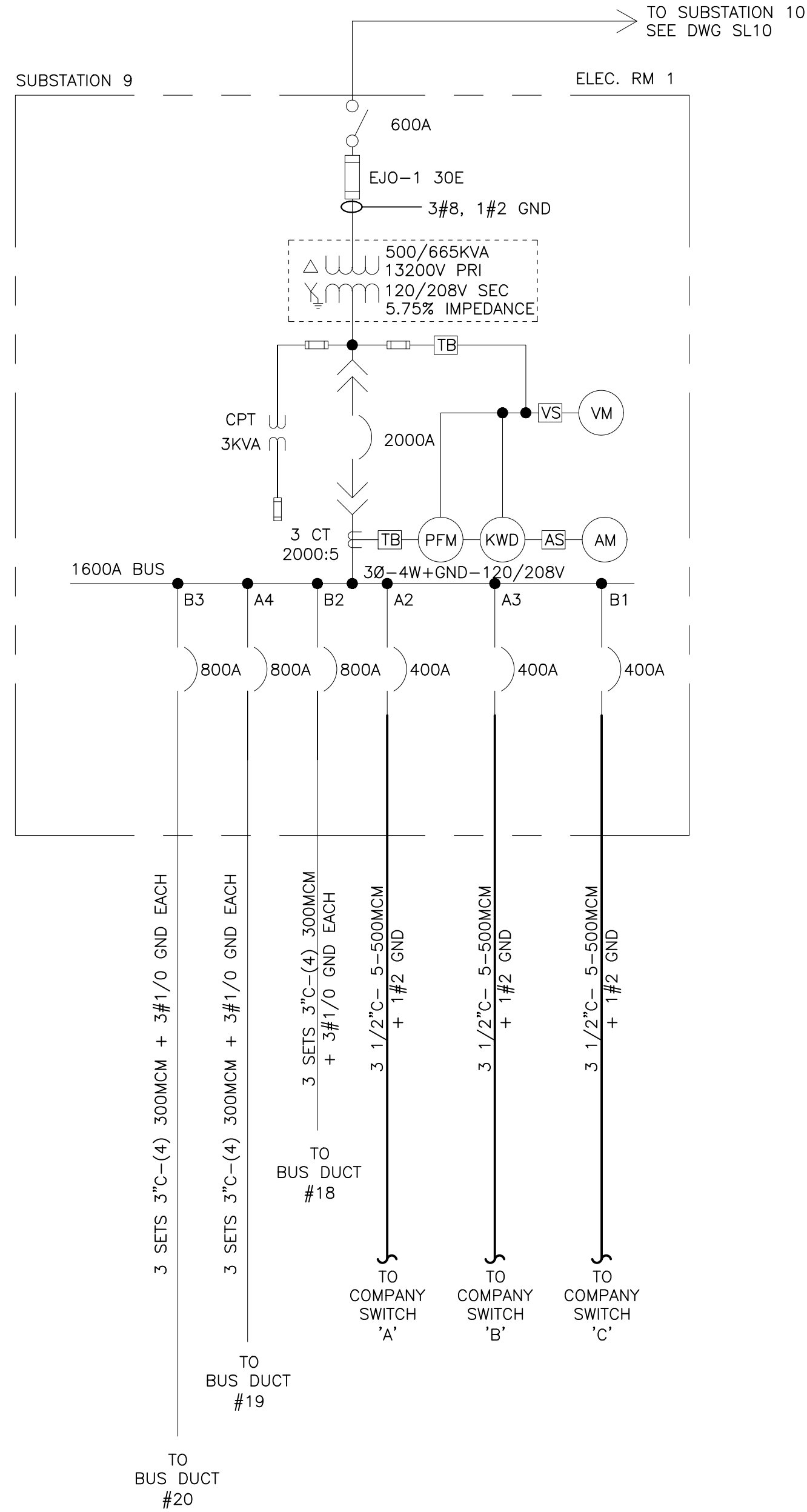
1
E3
SUBSTATION #9 ELEVATION
SCALE: 3/4" = 1' - 0"



2
E3
COMPANY SWITCHES - ELEVATION 'A-A' COLS. BC2/BC3
SCALE: NONE



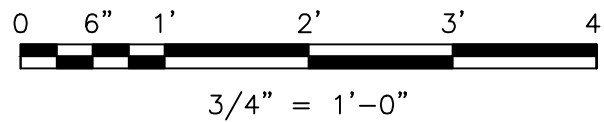
4
E3
400A COMPANY SWITCH AND WIRING DIAGRAM (TYPICAL)
SCALE: NONE



3
E3
COMPANY SWITCHES SINGLE LINE DIAGRAM - NEW
SCALE: NONE

BASE BID

GRAPHIC SCALE



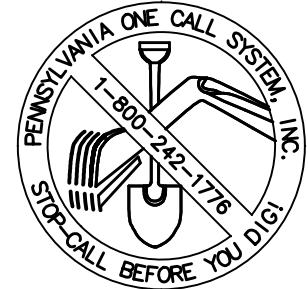
REVISIONS

ISSUE	DATE	REVISIONS



PENNSYLVANIA ONE CALL SYSTEM, INC.

800 South 4th Street
West Mifflin, Pennsylvania
17143-1000



BEFORE YOU DIG ANYWHERE IN
PENNSYLVANIA! CALL 1-800-242-1776

NON-MEMBERS MUST BE CONTACTED DIRECTLY
ALL WORK REQUIRES THREE WORKING DAYS
NOTICE TO RESULTS BEFORE YOU EXCAVATE.
CALL, PLAST OR DEMONSTRATE

PA ONE-CALL NUMBER (FOR DESIGN ONLY):

XXXXXXXXXX

DPP PROJECT COORDINATOR:

XXXXXXXXXX

SEAL:



CONSULTING ENGINEERS
Philadelphia Office
1315 Walnut Street
Suite 804
Philadelphia, PA 19107
(215) 542-8700

PROJECT NO. E46013

DATE

PROJECT ENG. JFM

8/5/24

CHECKED

DPP PROJECT NUMBER XX-XX-XXXX-XX

PROJECT TITLE:
SECOND LEVEL
EXHIBIT HALLS A, B & C
COMPANY SWITCHES AND RECEPTACLES

PHASE:

XXXXX

DRAWING TITLE:

COMPANY SWITCHES AND RECEPTACLES
COMPANY SWITCHES
ELECTRICAL ELEVATIONS AND DETAILS

PAGE PROJECT NO.:

DRAWING NO.:

CONSULTANT PROJECT NO.:

XX-XX-XXXX-XX

DATE:

XXXX-XXXX

SCALE:

AS NOTED

DRAWN BY:

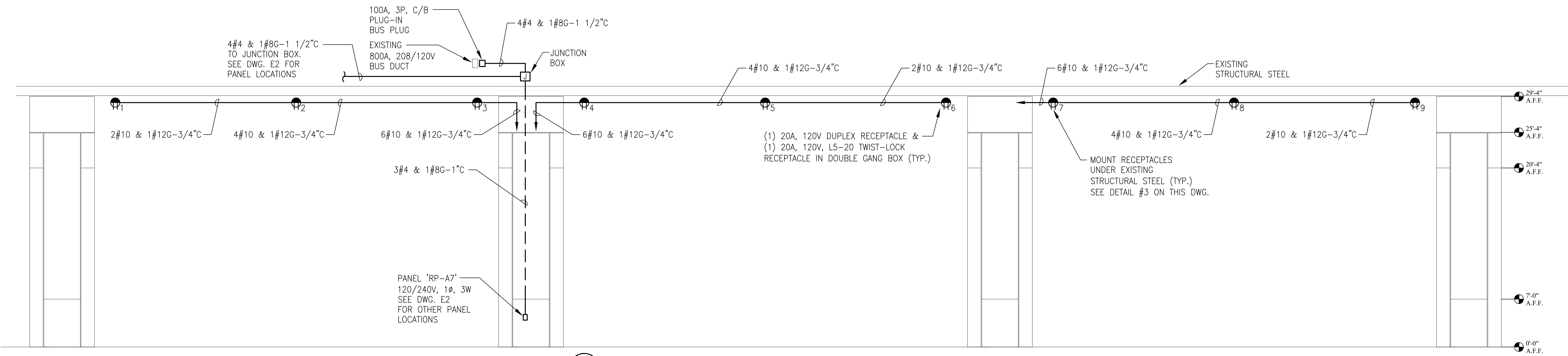
LPI

CHECKED BY:

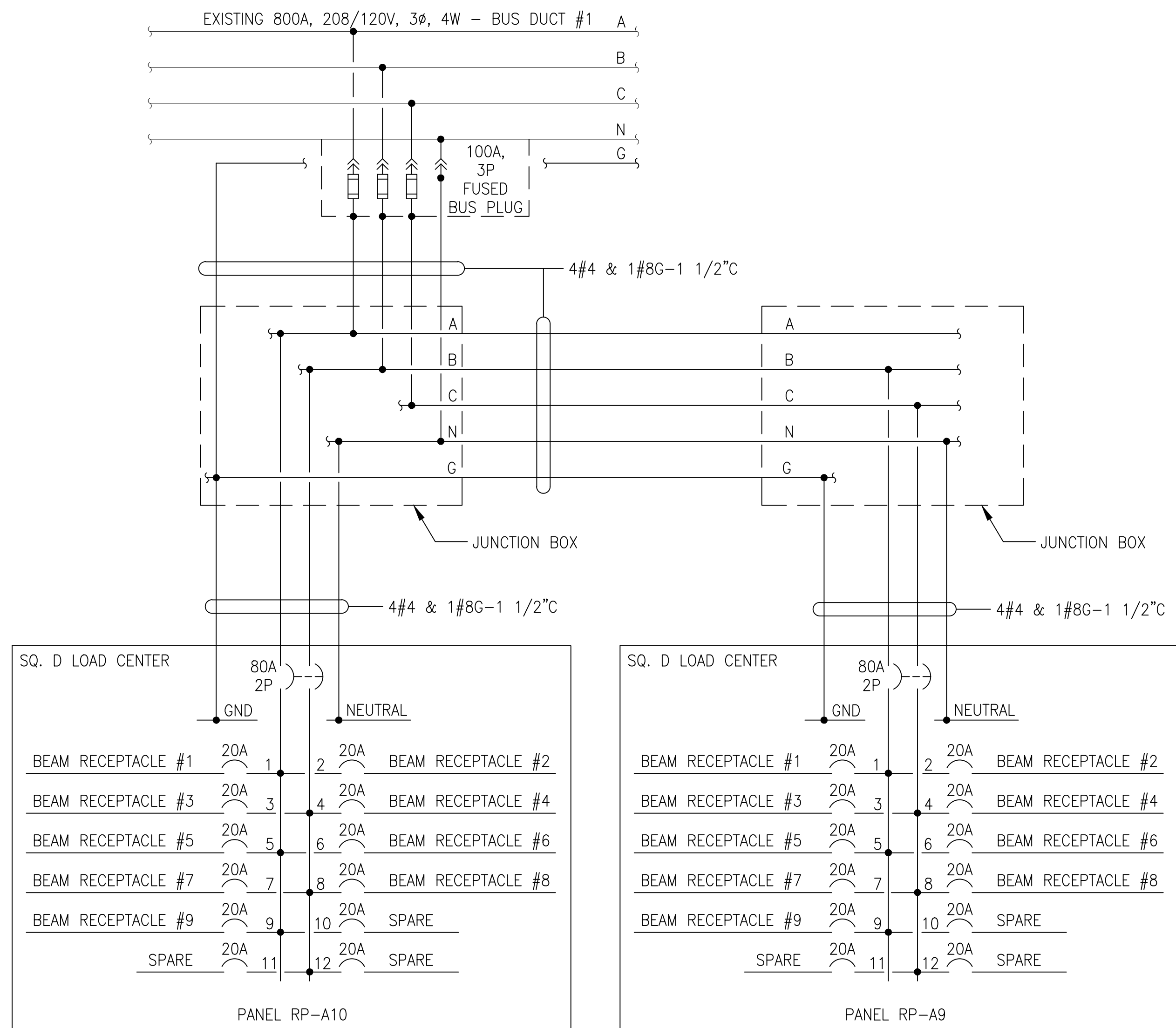
JFM

NOTE:
ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE
CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

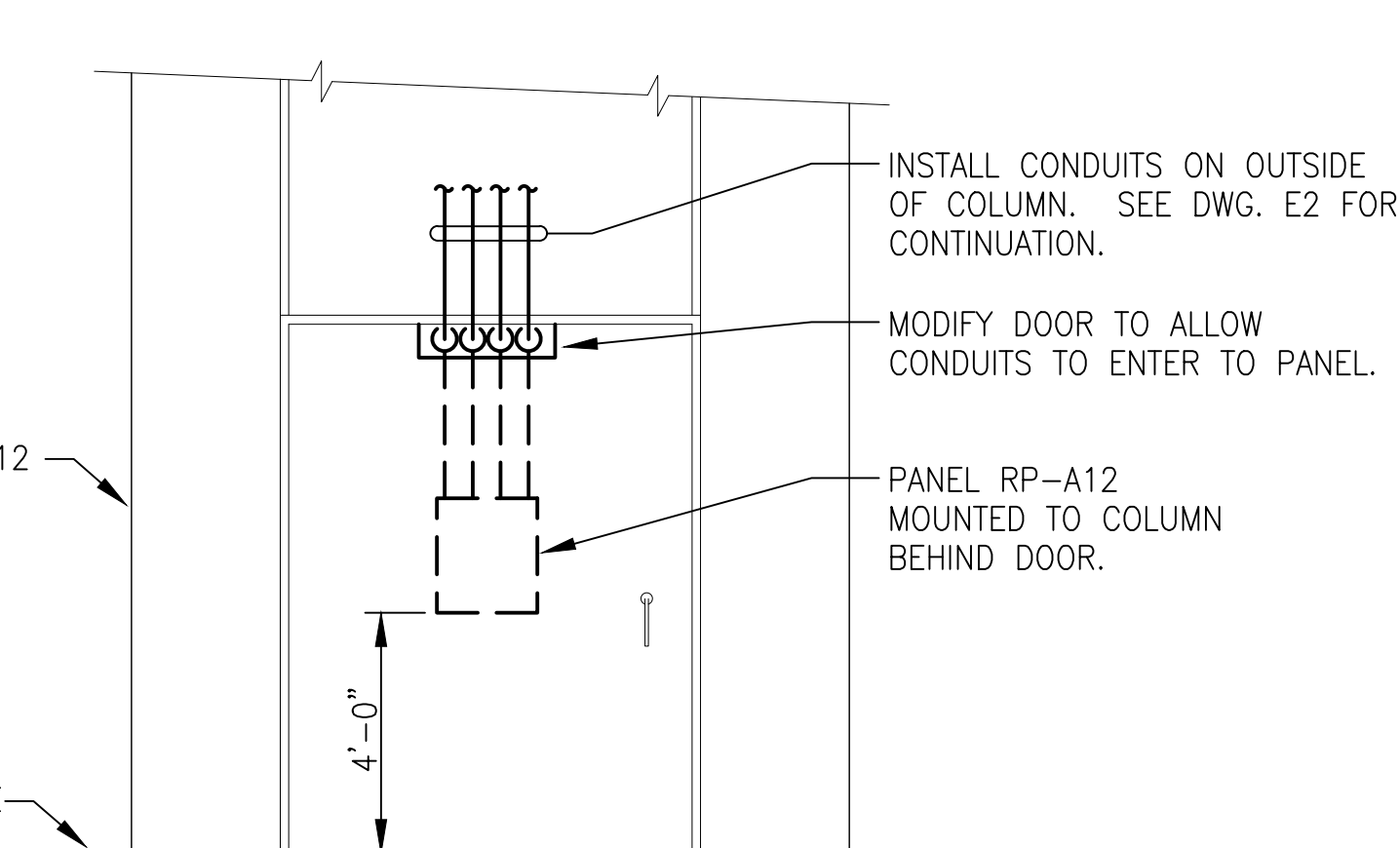
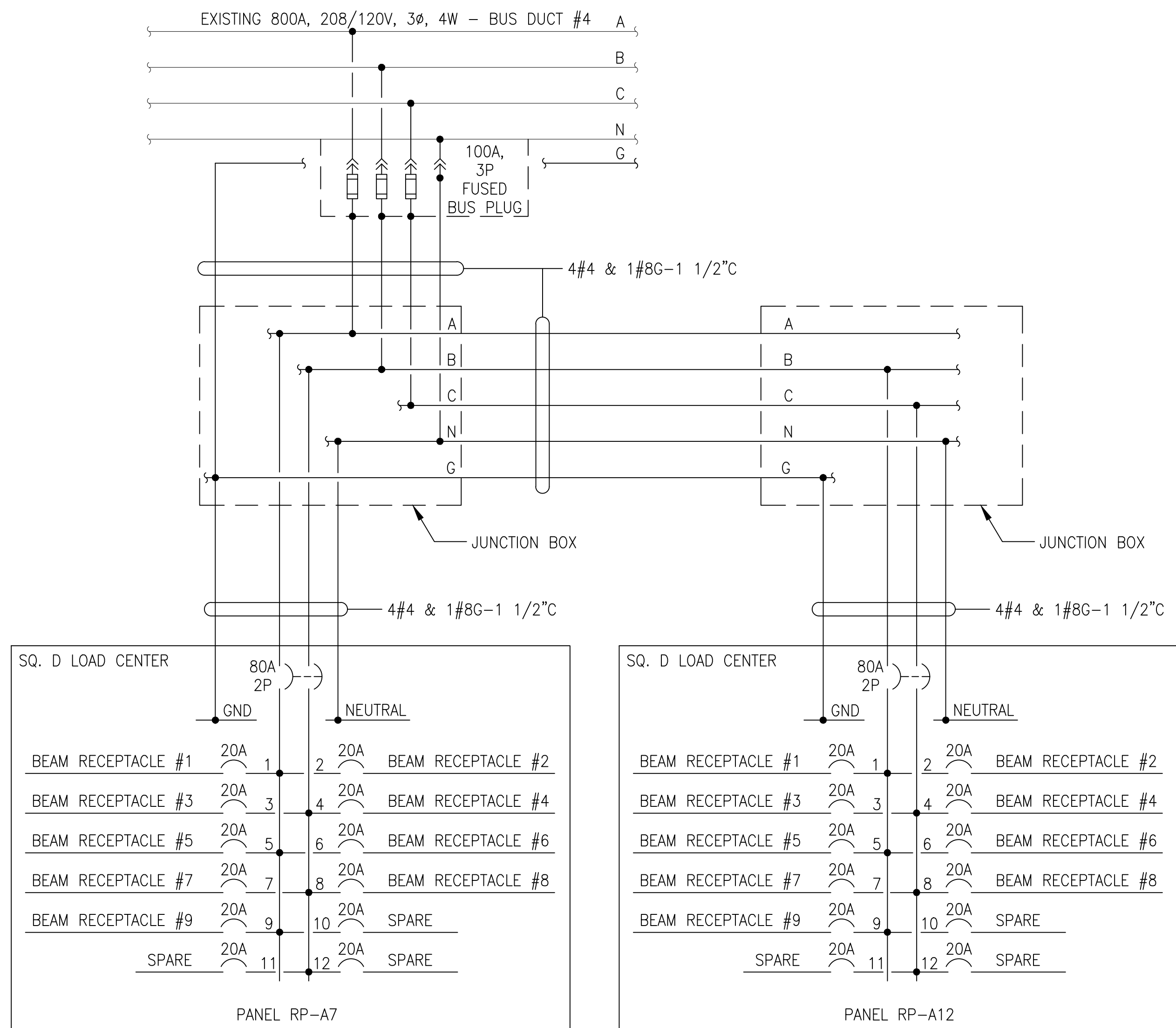
E3



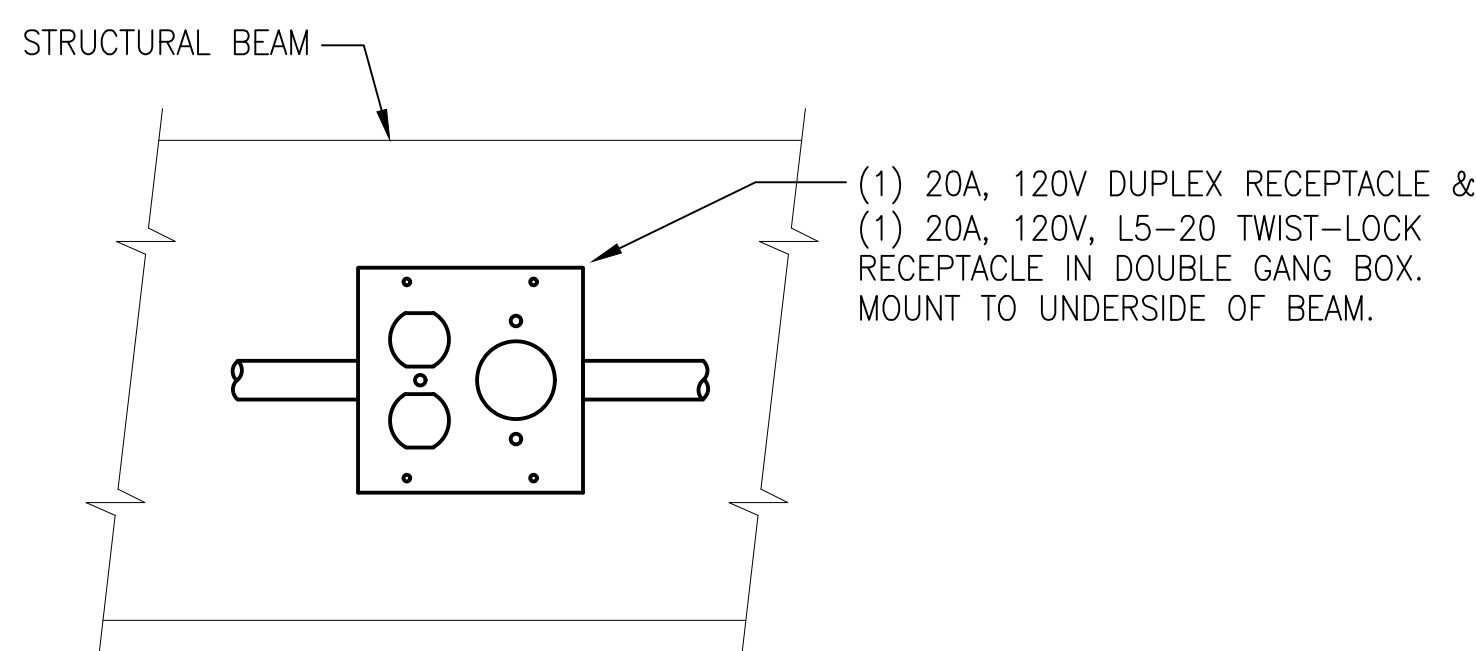
1
E4
TYPICAL RECEPTACLE MOUNTING LOCATIONS - ELEVATION 'B-B'
SCALE: NONE



2
E4
PANEL WIRING DIAGRAMS
SCALE: NONE



4
E4
PANEL RP-A12 DETAIL (LOOKING WEST)
SCALE: NONE



3
E4
TYPICAL RECEPTACLE MOUNTING DETAIL
SCALE: NONE

LEGEND

● - (1) 20A, 120V DUPLEX RECEPTACLE & (1) 20A, 120V, L5-20 TWIST-LOCK RECEPTACLE IN DOUBLE GANG BOX

○ - CIRCUIT NUMBER

ADD ALTERNATE NO. 1

REVISIONS		
ISSUE	DATE	REVISIONS
PENNSYLVANIA ONE CALL SYSTEM, INC. 800-ONE-CALL (662-6252) West Mifflin, Pennsylvania 15120-1000 BEFORE YOU DIG ANYWHERE IN PENNSYLVANIA! CALL 1-800-242-1776 NON-MEMBERS MUST BE CONTACTED DIRECTLY PA ONE-CALL NUMBER (FOR DESIGN ONLY): XXXXXXXXXX DPP PROJECT COORDINATOR: XXXXXXXXXX SEAL: CONSULTING ENGINEERS Philadelphia Office 1315 Walnut Street Suite 804 Philadelphia, PA 19107 (215) 542-8700 PROJECT NO. E46013 DATE 8/5/24 PROJECT ENG. JFM CHECKED DPP PROJECT NUMBER XX-XX-XXXX-XX PROJECT TITLE SECOND LEVEL EXHIBIT HALLS A, B & C COMPANY SWITCHES AND RECEPTACLES PHASE XXXXXX DRAWING TITLE COMPANY SWITCHES AND RECEPTACLES ELECTRICAL ELEVATION AND DETAILS SECOND LEVEL (LEVEL 63) PA&C PROJECT NO.: XX-XX-XXXX-XX DRAWING NO.: XXXX-XXXX CONSULTANT PROJECT NO.: XXXX-XXXX DATE 08-5-2024 SCALE AS NOTED DRAWN BY: LPI CHECKED BY: JFM NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.		

E4

PANEL: PANEL 'RP-A10'										FED FROM: BUST DUCT #1									
120/240 VOLTS, 1 PHASE, 3 WIRE										MANUFACTURER: SQUARE D									
100 AMPS MAIN COPPER BUS, 80A MAIN CIRCUIT BREAKER										CAT# 'QO'									
										SURFACE MOUNTING									
LOAD KVA	LOAD DESCRIPTION	BREAKER DATA			CKT No.	PHASE	CKT No.	BREAKER DATA			LOAD DESCRIPTION	LOAD KVA							
		TRIP	POLES	TYPE				TYPE	POLES	TRIP									
	BEAM RECEPTACLE #1	20A	1	QO	1	A	2	QO	1	20A	BEAM RECEPTACLE #2								
	BEAM RECEPTACLE #3	20A	1	QO	3	B	4	QO	1	20A	BEAM RECEPTACLE #4								
	BEAM RECEPTACLE #5	20A	1	QO	5	A	6	QO	1	20A	BEAM RECEPTACLE #6								
	BEAM RECEPTACLE #7	20A	1	QO	7	B	8	QO	1	20A	BEAM RECEPTACLE #8								
	BEAM RECEPTACLE #9	20A	1	QO	9	A	10	QO	1	20A	SPARE								
	SPARE	20A	1	QO	11	B	12	QO	1	20A	SPARE								

1
E5

PANEL 'RP-A10'

SCALE: NONE

PANEL: PANEL "RP-A7"										FED FROM: BUST DUCT #4									
120/240 VOLTS, 1 PHASE, 3 WIRE										MANUFACTURER: SQUARE D									
100 AMPS MAIN COPPER BUS, 80A MAIN CIRCUIT BREAKER										CAT# "QO"									
										SURFACE MOUNTING									
LOAD KVA	LOAD DESCRIPTION	BREAKER DATA			CKT NO.	PHASE	CKT NO.	BREAKER DATA			LOAD DESCRIPTION	LOAD KVA							
		TRIP	POLES	TYPE				TYPE	POLES	TRIP									
	BEAM RECEPTACLE #1	20A	1	QO	1	A	2	QO	1	20A	BEAM RECEPTACLE #2								
	BEAM RECEPTACLE #3	20A	1	QO	3	B	4	QO	1	20A	BEAM RECEPTACLE #4								
	BEAM RECEPTACLE #5	20A	1	QO	5	A	6	QO	1	20A	BEAM RECEPTACLE #6								
	BEAM RECEPTACLE #7	20A	1	QO	7	B	8	QO	1	20A	BEAM RECEPTACLE #8								
	BEAM RECEPTACLE #9	20A	1	QO	9	A	10	QO	1	20A	SPARE								
	SPARE	20A	1	QO	11	B	12	QO	1	20A	SPARE								

3
E5

PANEL 'RP-A7'

SCALE: NONE

PANEL: PANEL 'RP-A9'												FED FROM: BUST DUCT #1			
120/240 VOLTS, 1 PHASE, 3 WIRE												MANUFACTURER: SQUARE D			
100 AMPS MAIN COPPER BUS, 80A MAIN CIRCUIT BREAKER												CAT# 'QO'			
												SURFACE MOUNTING			
LOAD KVA	LOAD DESCRIPTION	BREAKER DATA			CKT No.	PHASE	CKT No.	BREAKER DATA			LOAD DESCRIPTION	LOAD KVA			
		TRIP	POLES	TYPE				TYPE	POLES	TRIP					
	BEAM RECEPTACLE #1	20A	1	QO	1	A	2	QO	1	20A	BEAM RECEPTACLE #2				
	BEAM RECEPTACLE #3	20A	1	QO	3	B	4	QO	1	20A	BEAM RECEPTACLE #4				
	BEAM RECEPTACLE #5	20A	1	QO	5	A	6	QO	1	20A	BEAM RECEPTACLE #6				
	BEAM RECEPTACLE #7	20A	1	QO	7	B	8	QO	1	20A	BEAM RECEPTACLE #8				
	BEAM RECEPTACLE #9	20A	1	QO	9	A	10	QO	1	20A	SPARE				
	SPARE	20A	1	QO	11	B	12	QO	1	20A	SPARE				

2
E5

PANEL 'RP-A9'

SCALE: NONE

PANEL: PANEL 'RP-12'										FED FROM: BUST DUCT #4									
120/240 VOLTS, 1 PHASE, 3 WIRE										MANUFACTURER: SQUARE D									
100 AMPS MAIN COPPER BUS, 80A MAIN CIRCUIT BREAKER										CAT# 'QO'									
										SURFACE MOUNTING									
LOAD KVA	LOAD DESCRIPTION	BREAKER DATA			CKT No.	PHASE	CKT No.	BREAKER DATA			LOAD DESCRIPTION	LOAD KVA							
		TRIP	POLES	TYPE				TYPE	POLES	TRIP									
	BEAM RECEPTACLE #1	20A	1	QO	1	A	2	QO	1	20A	BEAM RECEPTACLE #2								
	BEAM RECEPTACLE #3	20A	1	QO	3	B	4	QO	1	20A	BEAM RECEPTACLE #4								
	BEAM RECEPTACLE #5	20A	1	QO	5	A	6	QO	1	20A	BEAM RECEPTACLE #6								
	BEAM RECEPTACLE #7	20A	1	QO	7	B	8	QO	1	20A	BEAM RECEPTACLE #8								
	BEAM RECEPTACLE #9	20A	1	QO	9	A	10	QO	1	20A	SPARE								
	SPARE	20A	1	QO	11	B	12	QO	1	20A	SPARE								

4
E5

PANEL 'RP-12'

SCALE: NONE

ADD ALTERNATE NO. 1

REVISIONS		
ISSUE	DATE	REVISIONS



PENNSYLVANIA ONE CALL SYSTEM, INC.

800 North 4th Street
West Mifflin, Pennsylvania
17143-1000



BEFORE YOU DIG ANYWHERE IN
PENNSYLVANIA! CALL 1-800-242-1776

NON-MEMBERS MUST BE CONTACTED DIRECTLY

PA LAW REQUIRES THESE WARNING SIGNS
NOTICE TO INSTALL BEFORE YOU EXCAVATE.
HOLE, BLAST OR DANGER

PA ONE-CALL NUMBER (FOR DESIGN ONLY):XXXXXXXXXX

DPP PROJECT COORDINATOR:XXXXXXXXXX

SEAL:



CONSULTING ENGINEERS
Philadelphia Office
1315 Walnut Street
Suite 804
Philadelphia, PA 19107
(215) 542-8700

PROJECT NO. E46013	DATE
PROJECT ENG. JFM	8/5/24
CHECKED	

DPP PROJECT NUMBER:XX-XX-XXXX-XX

PROJECT TITLE:
SECOND LEVEL
EXHIBIT HALLS A, B & C
COMPANY SWITCHES AND RECEPTACLES

PHASE:

XXXXXX

DRAWING TITLE:

PANEL SCHEDULES

PACC PROJECT NO.: XX-XX-XXXX-XX	DRAWING NO.:
CONSULTANT PROJECT NO.:XXXX-XXXXX	E5
DATE:08-5-2024	
SCALE:AS NOTED	
DRAWN BY:LPI	
CHECKED BY:JFM	

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.