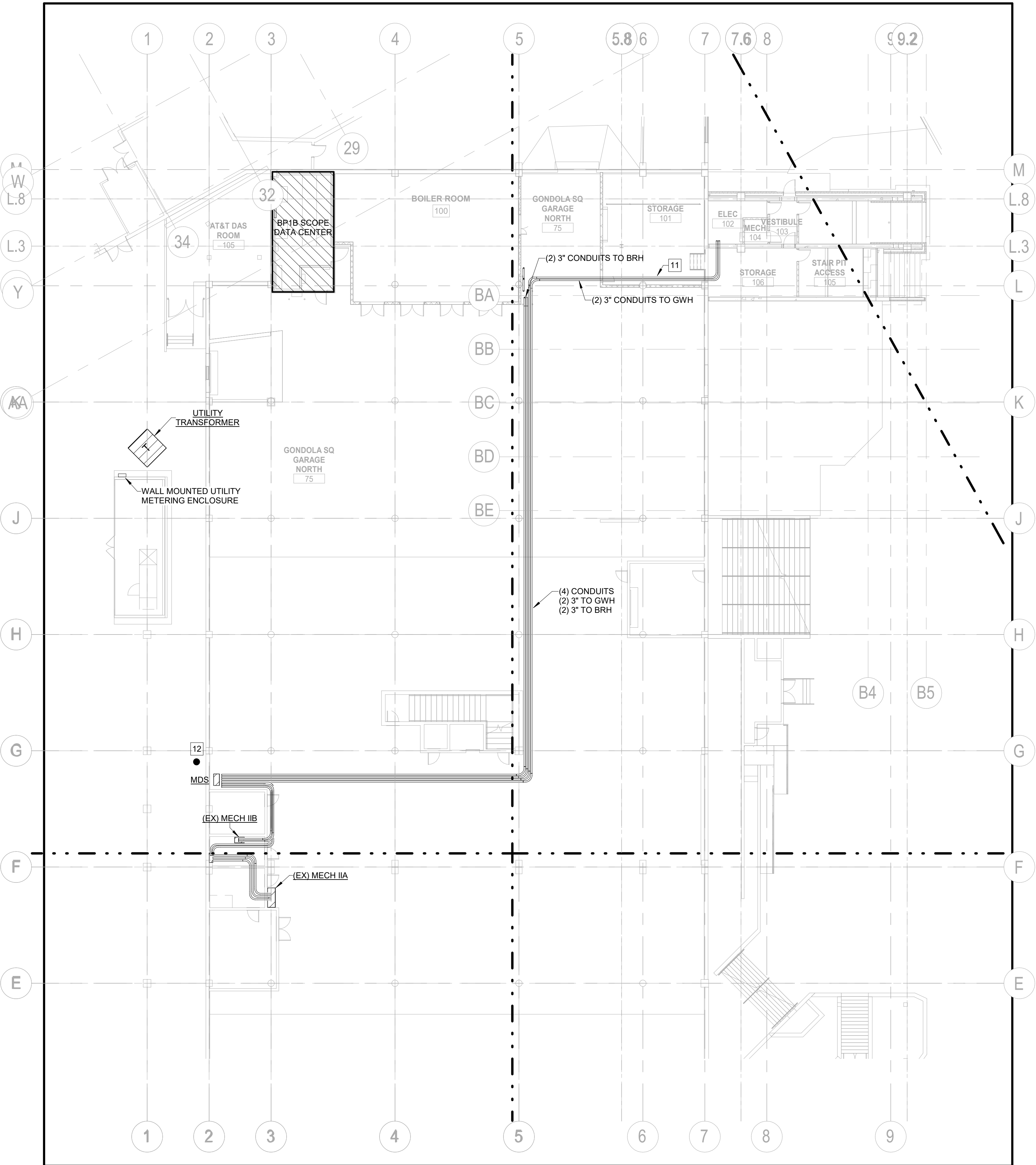


(EX) MECH IIA									
LOCATION: GONDOLA SQ GARAGE...					BUS: 800 A				
SUPPLY FROM: MDS					MAIN: 800 A - MCB				
VOLTAGE: 480/277 Wye					SCCR:				
LOADS SUMMARY					Load				
EXIST	LTG	RECPT	MOTOR	MISC.	KITCHEN	ELECTRIC HEAT	EV CHARGE		
EXISTING METERED LOAD	245680							245680 VA	296 A
ATS-DC		336	2700	63090	42660			108786 VA	131 A
DEMOLISHED LOAD (SUBTRACTED)									
(EX) GH - BOILER ROOM	-37835							-37835 VA	-46 A
(EX) LCC - ROUNDUP ROOM	-44124							-44124 VA	-53 A
CONNECTED TOTALS (V-A)	163721	336	2700	63090	42660			272507 VA	328 A
DIVERSITY FACTORS	125%	100%	100%	100%	100%				
DEMAND TOTAL (V-A)	204651	336	2700	68785	42660			319132 VA	384 A

- NOTE:**
- LOADS INDICATED AS NEGATIVE VALUES ARE LOADS THAT ARE BEING DEMOLISHED. THIS EQUIPMENT WAS METERED BY THE CONSTRUCTION TEAM FOR 30 DAYS FROM 3/18/21 THROUGH 4/23/21 DURING NORMAL OCCUPANCY OF THE BUILDING. LOADS AT THE BOTTOM OF THE LOAD SUMMARY THAT ARE LISTED AS DEDUCTS ARE QUANTIZED TO ELIMINATE LOAD DUPLICATION ON METERED DOWNSTREAM EQUIPMENT.
 - NO LOAD IS BEING ADDED TO MECH IIA AS A PART OF THIS BID PACKAGE. EXISTING MECH IIA SHALL BE RE-FED FROM THE NEW SERVICE ENTRANCE SWITCHBOARD 'MDS'. LOADS OTHER THAN EXISTING ARE INDICATED ABOVE FROM ATS-DC WHICH IS BP1B SCOPE ADDED PRIOR TO ISSUANCE OF THIS BID PACKAGE AFTER UTILITY METERING OCCURRED.
 - EXISTING UTILITY METER DATA IS OBTAINED FROM THE UTILITY FOR 1/18/20 THROUGH 1/18/21. THE EXISTING LOAD ABOVE IS THE PEAK DEMAND OVER THIS PERIOD.

1 LOAD SUMMARY

SCALE: NONE



2 OVERALL GOLD WALK REFERENCE PLAN

SCALE: 1/16" = 1'-0"

(EX) MECH IIB									
LOCATION: ELECTRICAL 43					BUS: 600 A				
SUPPLY FROM: MDS					MAIN: 600 A - MCB				
VOLTAGE: 480/277 Wye					SCCR:				
LOADS SUMMARY					Load				
EXIST	LTG	RECPT	MOTOR	MISC.	KITCHEN	ELECTRIC HEAT	EV CHARGE		
EXISTING METERED LOAD	150737							150737 VA	181 A
DEMOLISHED LOAD (SUBTRACTED)									
(EX) SKIS1XNW - SKI SCHOOL	-58282							-58282 VA	-70 A
CONNECTED TOTALS (V-A)	92455							92455 VA	111 A
DIVERSITY FACTORS	125%								
DEMAND TOTAL (V-A)	115569							115569 VA	139 A

- NOTE:**
- LOADS INDICATED AS NEGATIVE VALUES ARE LOADS THAT ARE BEING DEMOLISHED. THIS EQUIPMENT WAS METERED BY THE CONSTRUCTION TEAM FOR 30 DAYS FROM 3/18/21 THROUGH 4/23/21 DURING NORMAL OCCUPANCY OF THE BUILDING. LOADS AT THE BOTTOM OF THE LOAD SUMMARY THAT ARE LISTED AS DEDUCTS ARE QUANTIZED TO ELIMINATE LOAD DUPLICATION ON METERED DOWNSTREAM EQUIPMENT.
 - NO LOAD IS BEING ADDED TO MECH IIB AS A PART OF THIS BID PACKAGE. EXISTING MECH IIB SHALL BE RE-FED FROM THE NEW SERVICE ENTRANCE SWITCHBOARD 'MDS'.
 - EXISTING UTILITY METER DATA IS OBTAINED FROM THE UTILITY FOR 1/18/20 THROUGH 1/18/21. THE EXISTING LOAD ABOVE IS THE PEAK DEMAND OVER THIS PERIOD.

SHORT CIRCUIT STUDY

ALL EQUIPMENT MUST BE FULLY RATED FOR SHORT CIRCUIT / FAULT VALUES SHOWN BELOW. SERIES RATING NOT PERMITTED.

KEY	AVAILABLE AMPS
1	23,100
2	21,588
3	19,290
4	19,381
5	14,045
6	10,520
7	12,845
8	NOT USED
9	NOT USED

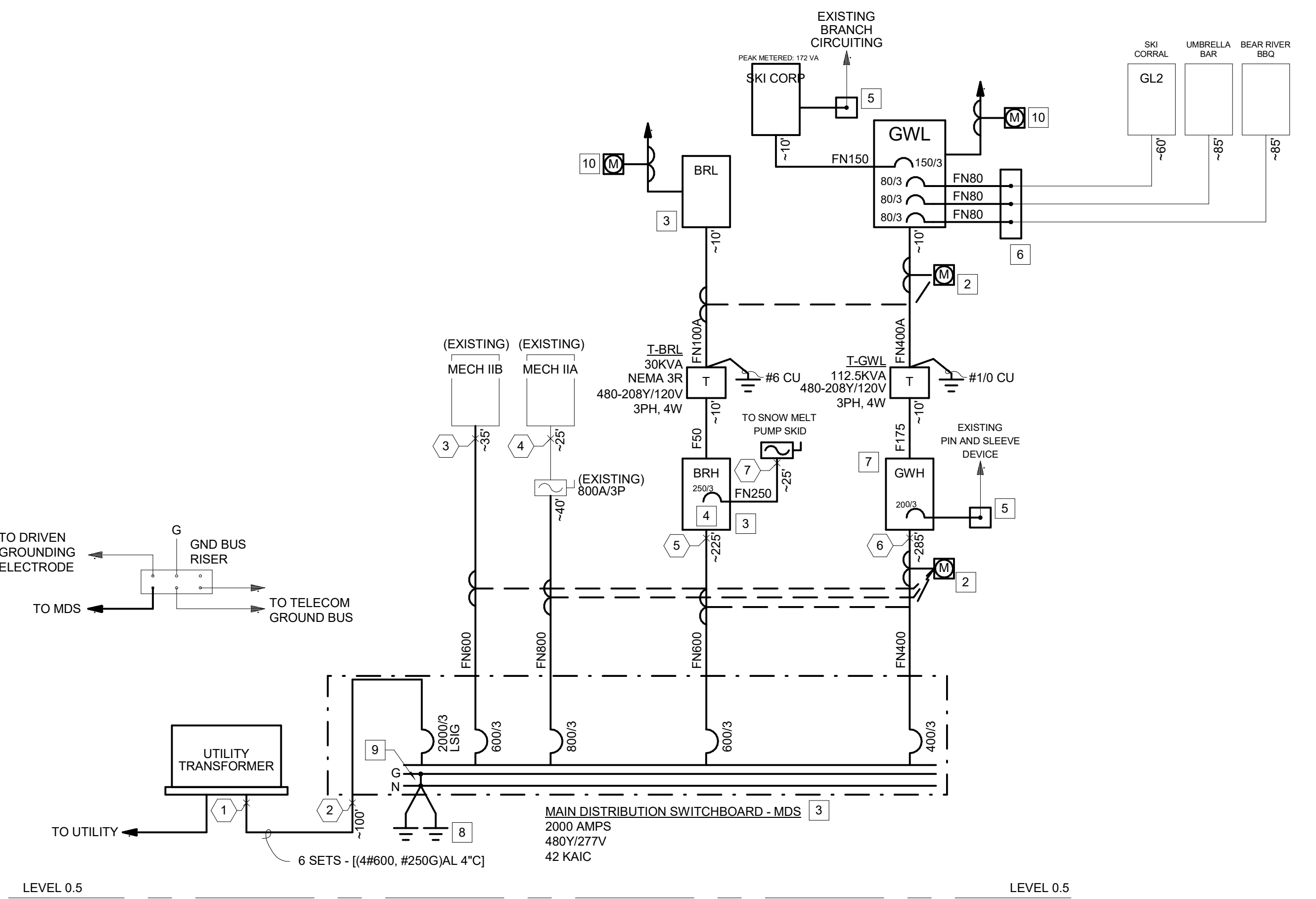
TRANSFORMERS (150KVA OR LESS)
BASED ON INFINITE IMPEDENCE ON THE PRIMARY.
THE AVAILABLE FAULT CURRENTS ON THE SECONDARY OF A TRANSFORMER IS AS FOLLOWS

15KVA	1343
30KVA	1665
45KVA	3903
75KVA	7330
112.5KVA	9184
150KVA	13787

MDS									
LOCATION: UTILITY TRANSFORMER					BUS: 2000 A				
SUPPLY FROM: MDS					MAIN: 2000 A - MLO				
VOLTAGE: 480/277 Wye					SCCR: RE ONE-LINE				
LOADS SUMMARY					Load				
EXIST	LTG	RECPT	MOTOR	MISC.	KITCHEN	ELECTRIC HEAT	EV CHARGE		
BP3: GOLD WALK - EXISTING LOADS									
(EX) MECH IIA	163721	336	2700	63090	42660			272507 VA	328 A
(EX) MECH IIB	92455							92455 VA	111 A
BP3: GOLD WALK - NEW LOADS									
BRH	756	1080	258288	1750		29099		290973 VA	350 A
GWH	55372	8000	13900	49502		16320		143094 VA	172 A
CONNECTED TOTALS (V-A)	311548	9052	17680	370880	44410		45419	799029 VA	961 A
DIVERSITY FACTORS	125%	100%	78%	110%	100%	100%			
DEMAND TOTAL (V-A)	389435	9052	13840	408707	44410		45419	910903 VA	1096 A

ME FEEDER TABLE									
COPPER					ALUMINUM				
BKR/OCPD	TAG	SETS	FEEDER/PIPE [3W]		TAG	SETS	FEEDER/PIPE [4W]		
20	F20	1	(3#12,#12G) 3/4"C	-	FN20	1	(4#12,#12G) 3/4"C	-	
30	F30	1	(3#10,#10G) 3/4"C	-	FN30	1	(4#10,#10G) 3/4"C	-	
40	F40	1	(3#8,#10G) 3/4"C	-	FN40	1	(4#8,#10G) 3/4"C	-	
50	F50	1	(3#8,#10G) 3/4"C	-	FN50	1	(4#8,#10G) 3/4"C	-	
50	-	-	-	-	FN50A	1	(4#8,#8G) 1"C	-	
50	-	-	-	-	FD50A	1	(5#8,#8G) 1"C	-	
60	F60	1	(3#8,#8G) 1"C	-	FN60	1	(4#8,#8G) 1"C	-	
70	F70	1	(3#8,#8G) 1-1/4"C	-	FN70	1	(4#8,#8G) 1-1/4"C	-	
80	F80	1	(3#8,#8G) 1-1/4"C	-	FN80	1	(4#8,#8G) 1-1/4"C	-	
90	F90	1	(3#8,#8G) 1-1/4"C	-	FN90	1	(4#8,#8G) 1-1/4"C	-	
100	F100	1	(3#8,#8G) 1-1/4"C	-	FN100	1	(4#8,#8G) 1-1/2"C	-	
100	-	-	-	-	FN100A	1	(4#8,#8G) 1-1/2"C	-	
100	-	-	-	-	FD100A	1	(5#8,#8G) 1-1/2"C	-	
110	-	-	-	-	-	-	-	-	
110	F110	1	(3#2,#8G) 1-1/2"C	-	-	-	-	-	
125	F125	1	(3#1,#8G) 1-1/2"C	-	FN125	1	(4#1,#8G) 2"C	-	
150	F150	1	(3#1/0,#8G) 1-1/2"C	-	FN150	1	(4#1/0,#8G) 2"C	-	
175	F175	1	(3#2/0,#8G) 2"C	-	FN175	1	(4#2/0,#8G) 2"C	-	
200	F200	1	(3#2/0,#8G) 2"C	(3#250,#8G) 2-1/2"C	FN200	1	(4#3/0,#8G) 2-1/2"C	(4#250,#8G) 2-1/2"C	
225	F225	1	(3#4/0,#8G) 2-1/2"C	(3#300,#8G) 2-1/2"C	FN225	1	(4#4/0,#8G) 2-1/2"C	(4#300,#8G) 2-1/2"C	
250	F250	1	(3#250,#4G) 2-1/2"C	(3#350,#4G) 2-1/2"C	FN250	1	(4#250,#4G) 3"C	(4#350,#4G) 3"C	
250	-	-	-	-	FN250A	1	(4#250,#2G) 3"C	(4#350,#2G) 3"C	
250	-	-	-	-	FD250A	1	(5#250,#2G) 3"C	(5#350,#2G) 3"C	
300	F300	1	(3#350,#4G) 3"C	(3#500,#4G) 3"C	FN300	1	(4#350,#4G) 3"C	(4#500,#4G) 3"C	
350	F350	1	(3#500,#5G) 3"C	(3#700,#5G) 3-1/2"C	FN350	1	(4#500,#5G) 3-1/2"C	(4#700,#5G) 3-1/2"C	
400	F400	2	(3#500,#3G) 2"C	(3#250,#2G) 2-1/2"C	FN400	2	(4#300,#3G) 2-1/2"C	(4#250,#3G) 2-1/2"C	
400	-	-	-	-	FN400A	2	(4#300,#10G) 2-1/2"C	(4#250,#10G) 2-1/2"C	
400	F400B	1	(3#600,#3G) 4"C	-	FN400B	1	(4#600,#3G) 4"C	-	
400	-	-	-	-	FD400A	2	(5#300,#10G) 2-1/2"C	(5#250,#10G) 2-1/2"C	
450	F450	2	(3#4/0,#2G) 2-1/2"C	(3#300,#2G) 2-1/2"C	FN450	2	(4#4/0,#2G) 2-1/2"C	(4#300,#2G) 2-1/2"C	
500	F500	2	(3#250,#2G) 2-1/2"C	(3#350,#2G) 2-1/2"C	FN500	2	(4#250,#2G) 3"C	(4#350,#2G) 3"C	
500	-	-	-	-	FN500A	2	(4#250,#10G) 3"C	(4#350,#10G) 3"C	
500	-	-	-	-	FD500A	2	(5#250,#10G) 3"C	(5#350,#10G) 3"C	
600	F600	2	(3#350,#1G) 3"C	(3#500,#1G) 3"C	FN600	2	(4#350,#1G) 3"C	(4#500,#1G) 3"C	
700	F700	2	(3#500,#10G) 3"C	(3#700,#10G) 3-1/2"C	FN700	2	(4#500,#10G) 3-1/2"C	(4#700,#10G) 3-1/2"C	
750	F750	2	(3#500,#10G) 3"C	(3#700,#10G) 3-1/2"C	-	-	-	-	
800	F800	3	(3#300,#10G) 3"C	(3#400,#10G) 3"C	FN800	3	(4#300,#10G) 3"C	(4#400,#10G) 3"C	
800	-	-	-	-	FN800A	3	(4#300,#20G) 3"C	(4#400,#20G) 3"C	
800	F800B	2	(3#600,#10G) 3-1/2"C	-	FN800B	2	(4#600,#10G) 4"C	-	
800	-	-	-	-	FD800A	3	(5#300,#20G) 3"C	(5#400,#20G) 3"C	

NOTES:
ALL CONDUCTORS ARE WITH THINHTHWN WIRE WITH 75DEG TERMINATIONS.
ALL ALUMINUM FEEDERS SHALL INCLUDE COPPER EQUIPMENT GROUND CONDUCTORS.
ALL ALUMINUM FEEDERS TO UTILIZE COMPRESSION TERMINATIONS.
ALL FEEDERS AND BRANCH CIRCUITS TO MECHANICAL AND VIBRATING EQUIPMENT SHALL BE COPPER CONDUCTORS
ALL EMERGENCY FEEDERS TO BE COPPER CONDUCTORS.
FEEDERS STARTING WITH "FD" CONTAIN DOUBLE NEUTRAL.



1 ONE-LINE DIAGRAM AND FEEDER TABLE

SCALE: NONE

1 ONE-LINES, FEEDER TABLE AND LOAD SUMMARY - GOLD WALK

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

GENERAL NOTES:

- ALL FEEDERS AND TERMINATIONS SHALL BE COPPER 75 DEGREE RATED.
- FEEDER LENGTHS ARE INDICATED FOR CALCULATION PURPOSES ONLY. THIS DRAWING IS NOT TO SCALE. FEEDER LENGTHS MUST BE CONFIRMED WITH THE CONTRACTOR.
- ALL CONDUIT RUNS SHALL BE RAN PERPENDICULAR AND PARALLEL TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT RUNS SHALL BE COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION.
- FOR CALCULATION PURPOSES THE FOLLOWING TRANSFORMER (2015 DOE) IMPEDANCES AND MAXIMUM SHORT CIRCUIT VALUES WERE USED:
15 KVA-3.1%Z, ISC=1,343A,
30 KVA-2.5%Z, ISC=1,665A,
45 KVA-3.2%Z, ISC=3,903A,
75 KVA-2.8%Z, ISC=7,303A,
112.5 KVA-3.4%Z, ISC=9,184A.
- PROVIDE FULL BUSSING FOR ALL SPACES INDICATED ON PANEL BOARDS.
- CONNECT ALL TRANSFORMER GROUNDING ELECTRODES TO GROUND BUS RISER AND COLD WATER PIPE.
- REFER TO DETAIL SHEET 1B-E001 FOR PANELBOARD AND SWITCHBOARD NAMEPLATE DETAILS.
- ALL NEW PANELS INDICATED HERE SHALL HAVE INTEGRAL SURGE PROTECTION DEVICES LOCATED INTERNAL TO PANEL. SURGE PROTECTION DEVICE TO HAVE ALL MODES OF PROTECTION.

KEYNOTES:

- PROVIDE NEW BREAKER IN EXISTING MAIN DISTRIBUTION PANEL TO SERVE NEW BOILER ROOM LOADS INDICATED ON ONE-LINE. REFER TO LOAD SUMMARY ON THIS SHEET FOR LOAD JUSTIFICATION OF NEW AND EXISTING LOADS.
- PROVIDE E-GAUGE CORE METERING (OR APPROVED EQUAL) FOR GOLD WALK SCOPE. FACTORY TRAINING AND MONITORING SOFTWARE TO BE INCLUDED.
- PROVIDE NEMA 3R ENCLOSURE FOR THIS ELECTRICAL DISTRIBUTION EQUIPMENT.
- PROVIDE SHUNT MAIN BREAKER TIED TO EPO. REFER TO PLANS FOR EPO LOCATION.
- INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITING SERVED BY EXISTING SKI CORP PANEL TO NEW SKI CORP PANEL LOCATION IN GOLD WALK ELECTRICAL ROOM. INDIVIDUAL BRANCH CIRCUITS SHALL BE EXTENDED IN KIND TO NEW LOCATION. PROVIDE PULL BOX AS REQUIRED FOR RE-ROUTE OF CONDUIT.
- INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITING SERVED BY EXISTING SKI CORP PANEL TO NEW SKI CORP PANEL LOCATION IN GOLD WALK ELECTRICAL ROOM. INDIVIDUAL BRANCH CIRCUITS SHALL BE EXTENDED IN KIND TO NEW LOCATION. PROVIDE PULL BOX AS REQUIRED FOR RE-ROUTE OF CONDUIT.
- LOCATE MINIMUM 16 ZONE COMBINATION DIMMING/RELAY PANEL ADJACENT TO THIS PANEL.
- PROVIDE #4/0 CU GROUND CONNECTION TO BUILDING STEEL AND MAIN ELECTRICAL ROOM GROUND BUS.
- NEUTRAL GROUND BOND.
- PROVIDE METERING FOR BRANCH CIRCUITS SERVING PLUG LOAD AND LIGHTING LOAD FOR ASHRAE-90.1 COMPLIANCE.
- ROUTE CONDUIT THROUGH STORAGE 101 TO CLEAR FUTURE BUILDING B.
- PROVIDE GROUND TEST WELL FOR ELECTRICAL SERVICE. FEEDING GONDOLA SQUARE. REFER TO DETAIL 41B-E-8000 FOR MORE INFORMATION.



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Date Description
2021.05.19 BP3: GOLDWALK - ISSUE FOR BID AND PERMIT

ELECTRICAL EQUIPMENT CONNECTION SCHEDULE	
GENERAL NOTES: 1. THIS SCHEDULE IS FOR ELECTRICAL EQUIPMENT CONNECTIONS ONLY. EQUIPMENT BY OTHERS. 2. PROVIDE A DEDICATED CIRCUIT WITH A DEDICATED NEUTRAL FOR ALL EQUIPMENT UNLESS OTHERWISE NOTED 3. CONFIRM ALL EQUIPMENT LOCATIONS AND ELEVATIONS PRIOR TO ROUGH-IN. 4. CONFIRM ALL EQUIPMENT FEEDER, DISCONNECT AND FUSING WITH SUBMITTED/PURCHASED EQUIPMENT PRIOR TO ROUGH-IN.	REMARK NOTES: A. PROVIDE GFCI CIRCUIT BREAKER. B. COORDINATE LOCATION OF ELECTRICAL RECEPTACLE WITH FOUNTAIN ROUGH IN DRAWING RECOMMENDATIONS.

EQ #	EQUIPMENT DESCRIPTION	HP	LOAD (VA)	VOLTAGE	PHASE	FLA	DISCONNECT	FUSE	FEEDER	CONDUIT	REMARKS
2	GARBAGE DISPOSAL	-	1440	120 V	1	12 A	-	-	2 #12 & #12 GND	3/4"	
3	COPIER	-	1560	120 V	1	13 A	-	-	2 #12 & #12 GND	3/4"	
4	DISHWASHER	-	1560	120 V	1	13 A	-	-	2 #12 & #12 GND	3/4"	
5	DRINKING FOUNTAIN	-	600	120 V	1	5 A	-	-	2 #12 & #12 GND	3/4"	A, B
6	MICROWAVE	-	1560	120 V	1	13 A	-	-	2 #12 & #12 GND	3/4"	
7	REFRIGERATOR	-	720	120 V	1	6 A	-	-	2 #12 & #12 GND	3/4"	
9	UNDERCOUNTER REFRIGERATOR	-	360	120 V	1	3 A	-	-	2 #12 & #12 GND	3/4"	
12	SKI BOOT DRYER (DOUBLE CONNECTION)	-	480	120 V	1	4 A	-	-	2 #12 & #12 GND	3/4"	
12A	SKI BOOT DRYER - WALL CONNECTION	-	240	120 V	1	2 A	-	-	2 #12 & #12 GND	3/4"	
13	GAS COMMERCIAL DRYER	-	1440	120 V	1	12 A	30A/1P	-	2#12 & #12 GND	3/4"	
14	COMMERCIAL WASHER	-	3328	208 V	1	16 A	-	-	3 #12 & #12 GND	3/4"	
14A	RESIDENTIAL STYLE WASHER	-	1800	120 V	1	15 A	-	-	2#12 & #12 GND	3/4"	
15	COFFEE MAKER	-	1920	120 V	1	16 A	-	-	2 #12 & #12 GND	3/4"	
16	ICE/WATER DISPENSER	-	1440	120 V	1	12 A	-	-	2 #12 & #12 GND	3/4"	

Type	Lamp	Description	Finish	Voltage	Mounting	Manufacturer	Catalog Number	Alternate 1	Alternate 2	Control	Location	Comments
L1	42W LED, 3000 LUMENS PER 4 FEET OF FIXTURE, 3500K, 80+ CRI, 50,000+ HOURS	LED STRIPLIGHT WITH DIFFUSE LENS, PROVIDE SURFACE OR PENDANT MOUNT SUPPORTS PER MOUNTING HEIGHT	WHITE	120/277	PENDANT TO 10 FT. AFF	LITHONIA	CLX-L4B-3000LM-SEF-FDL	COOPER METALLUX SNLED SERIES	DAYBRITE FSS LED SERIES	ON/OFF	MEP, STORAGE	PROVIDE ADDITIONAL QUANTITY OF COMPLETE LIGHT FIXTURE, WITH A MIN. QTY OF 2 FIXTURES.
L2	15 WATT LED, 600 LUMENS, 4000K.	WALL MOUNTED LED 'JELLY JAR' STYLE LIGHT FIXTURE WITH METAL GUARDING AROUND FIXTURE LENSING /LIGHT SOURCE, LOW PROFILE, VAPOR TIGHT, LED LIGHT SOURCE	STANDARD	120VOLT	WALL	LITHONIA	OLV1WM	APPROVED ALTERNATE	APPROVED ALTERNATE	ON/OFF	GENERATOR YARD	
L3		NOT USED										
L3A		NOT USED										
L4	23W LED, 1800+ DELIVERED LUMENS, 3500K, 80+ CRI, 50000 HOURS	4" DIAMETER RECESSED FIXED DOWNLIGHT, 73 DEGREE WIDE BEAM DISTRIBUTION, MATTE-DIFFUSE REFLECTOR, 6-81/8" TALL NEW CONSTRUCTION HOUSING, INTEGRAL DRIVER	STANDARD, TO BE CONFIRMED WITH ARCHITECT	120-277	RECESSED	GOTHAM	EV04-3520-AR-WD-LD-MVOLT-GZ10	COOPER PORTIFOLIO SERIES	SIGNIFY CALCULITE SERIES	0-10V DIMMING	CORRIDORS	PROVIDE ADDITIONAL QUANTITY OF COMPLETE LIGHT FIXTURE, WITH A QTY OF 0.25% OF TOTAL QTY AND A MIN. QTY OF 2 FIXTURES.
L4A		NOT USED										
L4B		NOT USED										
L5		NOT USED										
L5A		NOT USED										
L6		NOT USED										
L6A	9W/FT, 1250 LUMENS PER FOOT, 3500K, 80+ CRI, 50,000+ HOURS	3.44" WIDE X 2.72" DEEP LED STRIPLIGHT WITH DIFFUSE LENS, PROVIDE SURFACE OR PENDANT MOUNT SUPPORTS PER MOUNTING HEIGHT, LENGTH PER PLAN	WHITE, VERIFY WITH ARCHITECT	120-277	WALL	LITHONIA	CLX L24 2500LM SEF FDL	COOPER METALLUX SNLED SERIES	DAYBRITE FSS LED SERIES	0-10V DIMMING	STAIRS/CORRIDORS	
L6B		NOT USED										
SITE FAÇADE												
Type S1	Lamp 5903 LUMENS, 55W, 3000K, 80 CRI	Description SIMILAR TO F1, EXCEPT WALL MOUNTED	Finish BLACK (VERIFY WITH ARCH)	Voltage 120/277V	Mounting WALL	Manufacturer WE-EF	Catalog Number ASP834 LED055-3526	Alternate 1 APPROVED ALTERNATE	Alternate 2 APPROVED ALTERNATE	Control 0-10V DIMMING	Location	Comments ARM MOUNTED
S2	7.7W, 807 LUMENS, 3000K, 80 CRI	10.31" WIDE X 9.00" TALL X 4.52" DEEP RECESSED STEP LIGHT WITH TEMPERED GLASS LENS ASSYMETRIC THROW, WET LOCATION RATED.	GREY METALLIC (VERIFY WITH ARCHITECT)	120-277V	RECESSED	WE-EF	QRI 354 LED - 616 1231	APPROVED ALTERNATE	APPROVED ALTERNATE	ON/OFF	STEPS	
S3	29W, 2951 LUMENS, 3000K, 80 CRI	9.84" DIAMETER ROUND RECESSED LINEAR SPREAD LENSED LED SOFTENING LENS, 7.87" DEEP 11.87" DIAMETER BACK BOX, WET LOCATION RATED.	STAINLESS STEEL	120-277V	RECESSED	WE-EF	ETC330-FS LED+10 - 180	APPROVED ALTERNATE	APPROVED ALTERNATE	ON/OFF	ESCALATOR CANOPY	
EMERGENCY												
Type X1	Lamp 5W LED GREEN/RED	Description EDGE LIT EXIT SIGN, PROVIDE WHITE OR MIRROR BACKING BETWEEN PANELS - TBD, MOUNTING AND ARROWS, SINGLE OR DOUBLE FACE, WITH UNIVERSAL MOUNTINGS FOR ALL CONDITIONS PER PLAN DRAWINGS	Finish BRUSHED ALUMINUM	Voltage 277	Mounting UNIVERSAL	Manufacturer LITHONIA	Catalog Number LRP SERIES	Alternate 1 COOPER	Alternate 2 SIGNIFY	Control	Location PREMIUM AREAS	Comments VERIFY LETTER & BACKGROUND COLOR WITH LOCAL AHJ



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△ Date	Description
- 2021.05.19	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT

Seal / Signature



Project Name

Project Number

003.7835.000

Description
ELECTRICAL EQUIPMENT CONNECTION AND LIGHT FIXTURE SCHEDULE

Scale

NOT TO SCALE

1B-E0.002

Steamboat Base Village Redevelopment

480/277 Vys

3 Phase, 4 Wire + Gnd. 60Hz.

SCCR:

ME Engineers Inc.

BUS 600 A

MANS 600 A - MCB

GROUND BAR: Copper

OPTIONS:

FEED THROUGH LUGS

PROVIDE SHORT MAIN BREAKER

TIE TO EPO.

PANEL

ENCLOSURE:

FUNTING:

FEED FROM:

LEVEL:

LOCATION:

ISSUE DATE:

REFER TO DETAILS S AND SPECIFICATION SECTION FOR PANELBOARD LAMINATED PLAQUE REQUIREMENTS.

BRH

Type 1

Surface

MOS

PLAZA - LEVEL 01

CONDOLA SO GARAGE NORTH 78

NOTES:

N	LC	DESCRIPTION	P	OC	CKT	A	B	C	CKT	OC	P	DESCRIPTION	LC	N
M	--	HWP 18.01	3	20	1	2217 3048			2	20	3	HWP 18.09	M	--
--	--	--	--	--	--	--	2217 3048		--	--	--	--	--	--
--	--	--	--	--	--	--		2217 3048	6	--	--	--	--	--
M	--	HWP 18.02	3	20	7	2217 3880			8	20	3	HWP 18.10	M	--
--	--	--	--	--	--	--	2217 3880		10	--	--	--	--	--
--	--	--	--	--	--	--		2217 3880	14	--	--	--	--	--
M	--	HWP 18.03	3	20	13	2217 3880			14	20	3	HWP 18.11	M	--
--	--	--	--	--	--	--	2217 3880		16	--	--	--	--	--
--	--	--	--	--	--	--		2217 3880	20	--	--	--	--	--
M	--	HWP 18.04	3	20	19	2217 3880			20	20	3	HWP 18.12	M	--
--	--	--	--	--	--	--	2217 3880		22	--	--	--	--	--
--	--	--	--	--	--	--		2217 3880	24	--	--	--	--	--
M	--	HWP 18.05	3	20	25	2217 0			26	20	3	SPARE	--	--
--	--	--	--	--	--	--	2217 0		28	--	--	--	--	--
--	--	--	--	--	--	--		2217 0	30	--	--	--	--	--
M	--	HWP 18.06	3	20	31	2217 0			32	20	3	SPARE	--	--
--	--	--	--	--	--	--	2217 0		34	--	--	--	--	--
--	--	--	--	--	--	--		2217 0	36	--	--	--	--	--
M	--	HWP 18.07	3	20	37	2217 0			38	30	3	SPARE	--	--
--	--	--	--	--	--	--	2217 0		40	--	--	--	--	--
--	--	--	--	--	--	--		2217 0	42	--	--	--	--	--
M	--	HWP 18.08	3	20	43	3048 0			44	30	3	SPARE	--	--
--	--	--	--	--	--	--	3048 0		46	--	--	--	--	--
--	--	--	--	--	--	--		3048 0	48	--	--	--	--	--
--	--	SPARE	3	20	49	0 0			50	30	3	SPARE	--	--
--	--	--	--	--	--	--	0 0		52	--	--	--	--	--
--	--	--	--	--	--	--		0 0	54	--	--	--	--	--
--	--	SPARE	3	20	55	0 3028			56	30	3	18.01	--	--
--	--	--	--	--	--	--	0 4870		58	--	--	--	--	--
--	--	--	--	--	--	--		0 2212 60	--	--	--	--	--	--

PER PHASE VA WITH DOWNSTREAM LOADS

PHASE	A	B	C	TOTALS	CATEGORY	CONNECTED	FACTOR	CALC. V.A.	AMPS @ 480/277 Vys
CALC	109967	110005	106028	328800	LIGHTING	756	100%	756	1
CINCTD	97316	98058	95000	290973	RECEPTACLE	1280	100%	1080	1
DOWNSTREAM FEED THROUGH LUG PANELS					MOTOR	255238	115%	296115	356
					MISCELLANEOUS	1750	100%	1750	2

KITCHEN

ELECTRIC HEAT

EV CHARGING

EXISTING

208Y/120

480/277

A BLACK BROWN

B RED CRANSE

C BLUE YELLOW

N WHITE WHITE/GRAY STRIPE

G GREEN

TOTAL

290973

328800

395

Steamboat Base Village Redevelopment

460/277 Vyle

3 Phase, 4 Wire + Gnd. 60Hz.

SCCR:

NOTES:

ME Engineers Inc.

BUS: 600 A

MAINS: MLO

GROUND BAR: Copper

OPTIONS:

PANEL:

ENCLOSURE:

MOUNTING:

FEED FROM:

LEVEL:

LOCATION:

ISSUE DATE:

GONDOLA SQ GARAGE NORTH 75

REFER TO DETAILS AND SPECIFICATION SECTION FOR PANELBOARD LAMINATED PLAQUE REQUIREMENTS.

N	LC	DESCRIPTION	P	OC	CKT	A	B	C	CKT	OC	P	DESCRIPTION	LC	N	
--	E	B 1B.03	3	20	61	1386	50436		62	250	3	SNOWMELT PUMP SYSTEM	M	--	
--	--		--	--	63		1386	50436			--	--	--	--	
--	--		--	--	65						--	--	--	--	
--	E	B 1B.04	3	20	67	1386	0	1386	50436		68	20	3	SPARE	--
--	--		--	--	69		1386	0			70	--	--	--	--
--	--		--	--	71						72	--	--	--	--
--	E	B 1B.05	3	20	73	1386	0		1386	0	74	20	3	SPARE	--
--	--		--	--	75		1386	0			76	--	--	--	--
--	--		--	--	77				1386	0	78	--	--	--	--
--	E	B 1B.01	3	20	79	1386	0				80	30	3	SPARE	--
--	--		--	--	81		1386	0			82	--	--	--	--
--	--		--	--	83				1386	0	84	--	--	--	--
--	E	B 1B.02	3	20	85	1386	0				86	30	3	SPARE	--
--	--		--	--	87		1386	0			88	--	--	--	--
--	--		--	--	89				1386	0	90	--	--	--	--
--	E	B 1B.06	3	20	91	1386	0				92	60	3	SPARE	--
--	--		--	--	93		1386	0			94	--	--	--	--
--	--		--	--	95				1386	0	96	--	--	--	--
--	E	B 1B.07	3	20	97	1386	0	1386	0		98	60	3	SPARE	--
--	--		--	--	99						100	--	--	--	--
--	--		--	--	101				1386	0	102	--	--	--	--
--	--	SPARE	1	20	103	0	--				104	--	1	SPACE	--
--	--	SPARE	1	20	105	0	--				106	--	1	SPACE	--
--	--	SPARE	1	20	107			0	--		108	--	1	SPACE	--
--	--	SPARE	1	20	109	0	--				110	--	1	SPACE	--
--	--	SPARE	1	20	111	0	--				112	--	1	SPACE	--
--	--	SPARE	1	20	113			0	--		114	--	1	SPACE	--
--	--	SPARE	1	20	115	0	--				116	--	1	SPACE	--
--	--	SPARE	1	20	117	0	--				118	--	1	SPACE	--
--	--	SPARE	1	20	119			0	--		120	--	1	SPACE	--

PER PHASE VA WITH DOWNSTREAM LOADS

PHASE	A	B	C	TOTALS
CALC	72744	72744	72744	218233
CNCTD	60135	60135	60135	180406

DOWNSTREAM FEED THROUGH LUG PANELS

LOAD SUMMARY WITH DOWNSTREAM LOADS INCLUDED

CATEGORY	CONNECTED	FACTOR	CALC. V-A
LIGHTING			
RECEPTACLE			
MOTOR	151307	125%	189134
MISCELLANEOUS			
KITCHEN			
ELECTRIC HEAT	29099	100%	29099
EV CHARGING			
EXISTING			
TOTAL	180406		218233

AMPS @ 460/277 Vyle

262

CONDUCTOR COLORS (EC TO LABEL, IN PANEL)

280Y/120

480Y/277

A BLACK

B BROWN

C RED

D ORANGE

E WHITE

F YELLOW

G BLUE

H WHITE/GRAY STRIPE

I GREEN

TOTAL

180406

218233

262

Steamboat Base Village Redevelopment

120/208 Vye

3 Phase, 4 Wire + Gnd. 60Hz.

SCCR:

ME Engineers Inc.

BUS: 100 A

MAINS: 100 A - MCB

GROUND BAR: Copper

OPTIONS:

PANEL

ENCLOSURE: Type 1

MOUNTING: Surface

FED FROM: 1 F.B.R. (ABOVE)

LEVEL: PLAZA - LEVEL 01

LOCATION: GONDOLA SO GARAGE NORTH 75

ISSUE DATE:

REFER TO DETAILS & SPECIFICATION SECTION FOR PANELBOARD LAMINATED PLAQUE REQUIREMENTS.

NOTES:

N	LC	DESCRIPTION	P	OC	CKT	A	B	C	CKT	OC	P	DESCRIPTION	LC	N
R		BOILER ROOM GEN RECEP	1	20	1	540	0			2	20	1	SPARE	--
R		BOILER ROOM GEN RECEP	1	20	3		540	0		4	20	1	SPARE	--
X		MISC. BOILER ROOM CONTROLS	1	20	5			350	0	6	20	1	SPARE	--
X		MISC. BOILER ROOM CONTROLS	1	20	7	350	0			8	20	1	SPARE	--
X		MISC. BOILER ROOM CONTROLS	1	20	8		350	0		10	20	1	SPARE	--
X		MISC. SNOW MELT CONTROLS	1	20	11			350	0	12	20	1	SPARE	--
X		MISC. SNOW MELT CONTROLS	1	20	13	350	0			14	20	1	SPARE	--
L		BOILER ROOM LIGHTING	1	20	15		756	0		16	20	1	SPARE	--
--		SPARE	1	20	17			0	0	18	20	1	SPARE	--
M		GP 1B10.1	1	20	19	1176	0			20	20	1	SPARE	--
M		HFCU 4	1	20	21		1512	0		22	20	1	SPARE	--
M		HFCU 4	1	20	23			1512	0	24	20	1	SPARE	--
M		HFCU 4	1	20	25	1512	0			26	20	1	SPARE	--
M		HFCU 4	1	20	27		1512	0		28	20	1	SPARE	--
--		SPARE	1	20	29			0	0	30	20	1	SPARE	--
--		SPACE	--	--	31	--	--	--	--	32	--	--	SPACE	--
--		SPACE	--	--	33	--	--	--	--	34	--	--	SPACE	--
--		SPACE	--	--	35	--	--	--	--	36	--	--	SPACE	--
--		SPACE	--	--	37	--	--	--	--	38	--	--	SPACE	--
--		SPACE	--	--	39	--	--	--	--	40	--	--	SPACE	--
--		SPACE	--	--	41	--	--	--	--	42	--	--	SPACE	--

PER PHASE VA WITH DOWNSTREAM LOADS

PHASE	A	B	C	TOTALS	LOAD CATEGORY WITH DOWNSTREAM LOADS INCLUDED	CONNECTIONS	CONNECTED	FACTOR	CALC. V-A	AMPS @ 120/208 Vye
CALC	4065	4833	2289	11188	RECTANGLE	756	100%	100%	756	2
CNCTD	3928	4670	2212	10810	MOTOR	1080	100%	100%	1080	31
					LIGHTING	7224	100%	100%	7602	21
					MISCELLANEOUS	1750	100%	100%	1750	5

CONDUCTOR COLORS (EG TO LABEL IN PANEL)

A	208Y/120	480Y/277
B	BLACK	BROWN
C	RED	ORANGE
D	BLUE	YELLOW
E	WHITE	GREEN
F	GREEN	WHITE/GRAY STRIPE

TOTAL

10810

11188

31

[illegible]

Steamboat Base Village Redevelopment

12/20/28 Wye

3 Phase, 4 Wire + Gnd. 60Hz.

SCCR:

BUS: 400 A

MANS: 400 A - MCB

Copper

GROUND BAR:

OPTIONS:

PANEL

ENCLOSURE: Type 1

MOUNTING: Type 1 Surface

FED FROM: 7-GWL

LEVEL: PLAZA - LEVEL 01

LOCATION: ELECTRICAL 14

ISSUE DATE:

NOTES:

1. PROVIDE GFCI TYPE CIRCUIT BREAKER.

REFER TO DETAILS AND SPECIFICATION SECTION FOR PANELBOARD LAMINATED PLAQUE REQUIREMENTS.

N	LC	DESCRIPTION	P	OC	P	CKT	A	B	C	CKT	OC	P	DESCRIPTION	LC	N		
M		UH 2 VESTIBULE 103	1	20	1	120	0			2	20	1	UH 3 STORAGE 108	M			
M		UH 2 STAIR ACCESS	1	20	1	3		120	120				UH 2 ELEC 102	M			
M		WFCU 1B.01	1	20	1	15				120	900	6	1	ELEVATOR ROOM GEN RECEPIS	R		
R		STORAGE RM GEN RECEPIS	1	20	7	720	2000					8	1	ESCALATOR #2 SKIRT LIGHTING	L		
R		STORAGE RM GEN RECEPIS	1	20	9			720	1920				8	1	ESCALATOR #2 HEATING FAN	L	
R		SITE LTG. 19 - ZONE LIGHTS - ZONE G.5.3	1	20	1	15				540	1200	12	1	ESCALATOR #1 COMB. LIGHTING (TOP)	E		
L		ESCALATOR #1 SKIRT LIGHTING	1	20	13	2000	1200					14	1	ESCALATOR #2 COMB. LIGHTING (BOT)	E		
M		ESCALATOR #1 HEATING FAN	1	20	15			1920	2880			16	1	ESCALATOR #2 STEP BAND HEATING	E		
E		ESCALATOR #1 COMB. LIGHTING (TOP)	1	20	19					1200	2880	18	1	ESCALATOR #2 STEP BAND HEATING	E		
E		ESCALATOR #1 COMB. LIGHTING (BOT)	1	20	19	1200	1200					20	1	WFCU 1B.02	M		
E		ESCALATOR #1 STEP BAND HEATING	1	30	21			2880	0			22	1	SPARE	--		
E		ESCALATOR #1 STEP BAND HEATING	1	30	23					2880	0	24	1	SPARE	--		
L		STORAGE 101 LIGHTING	1	20	25	756	0					26	1	SPARE	--		
L		MEP ROOMS & STAIR PIT LIGHTING	1	20	27			672	0			28	1	SPARE	--		
L		SIGNAGE ELEMENT NEAR TOP OF STAIR	1	20	29					180	0	30	1	SPARE	--		
M		UH 2 VESTIBULE 103	1	20	31	120	0					32	1	SPARE	--		
M		GOLD WALK PEDESTAL (SPECIALTY)	3	30	33			3602	0			34	1	SPARE	--		
--	--	--	--	--	--	--	--	--	--	3602	0	36	1	SPARE	--		
--	--	--	--	--	--	--	--	--	--		--	38	1	(EX) BEAR RIVER BBQ	EX		
R		GOLD WALK PEDESTAL (QUAD)	3	30	39	3602	6024					40	--	--	--		
R		GOLD WALK PEDESTAL (QUAD)	1	20	41			360	6024			42	--	--	--		
--	--	--	--	--	--	--	--	5585	0			44	80	3	(EX) UMBRELLA BAR	EX	
--	--	SPARE	1	20	43	0		0	5585			46	--	--	--		
--	--	SPARE	1	20	45	0		0	5585			48	--	--	--		
--	--	SPARE	1	20	47					0	5585	48	--	--	--		
--	--	SPARE	3	30	49	0	6424					50	80	3	(EX) GLZ PANEL	EX	
--	--	--	--	--	--	--	--	51	0	6424		52	--	--	--		
--	--	--	--	--	--	--	--	53			0	6424	54	--	--		
--	--	SPARE	3	70	55	0	425					56	150	3	SKI CORP	EX	
--	--	--	--	--	--	--	--	57	0	425		58	--	--	--		
--	--	--	--	--	--	--	--	59			0	425	60	--	--		

PER PHASE VA WITH DOWNSTREAM LOADS

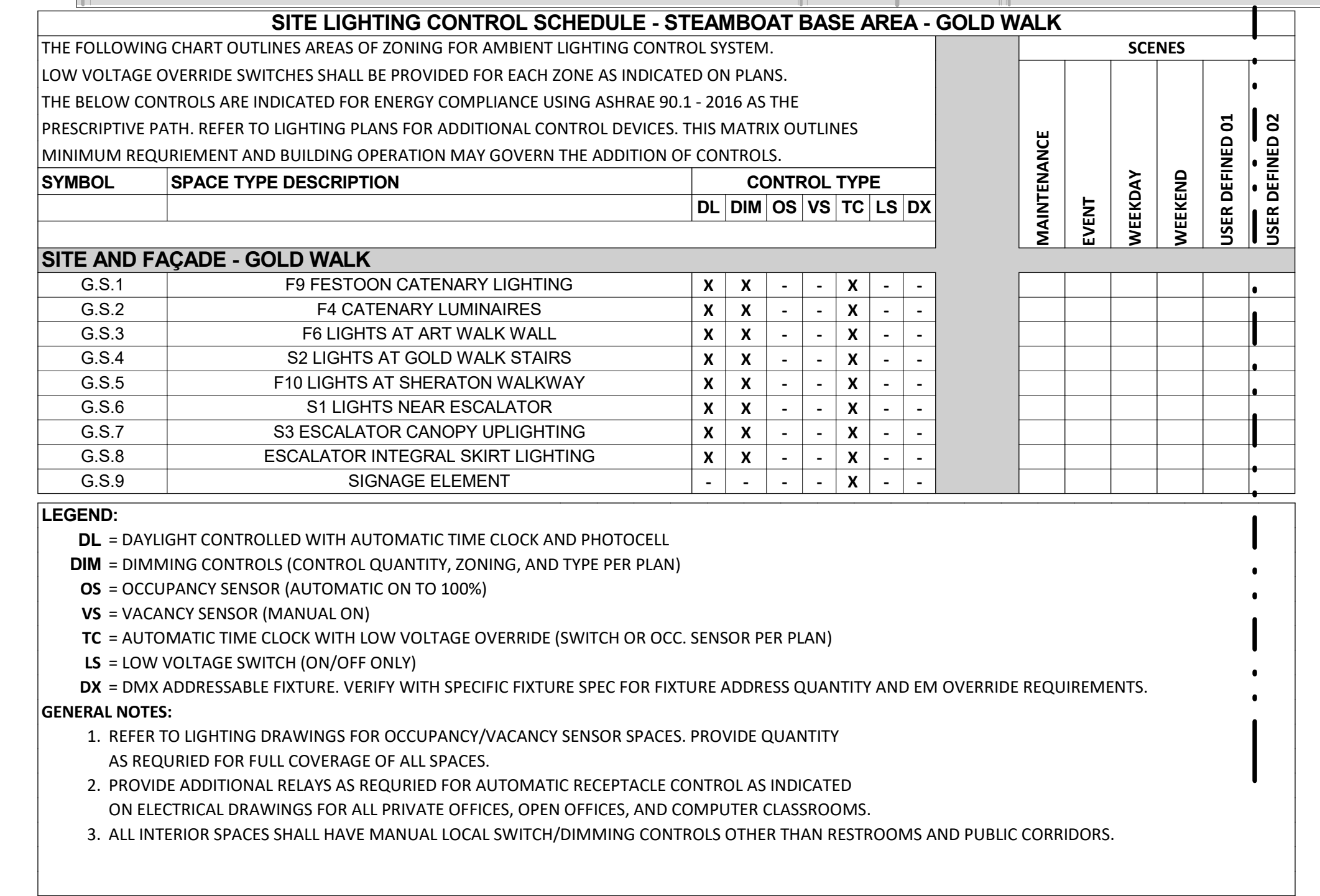
PHASE	A	B	C	TOTALS	CATEGORY	CONNECTED	FACTORS	CALC. V-A	AMPS @ 120/208 Wye
CALC	34195	37983	36479	106657	ELECTRIC	6148	100%	6148	17
CNCTD	30282	33552	30220	94057	RECEPTACLE	13867	86%	11524	33
DOWNSTREAM FEED THROUGH LUG PANELS					MOTOR	4560	111%	5104	14
					MISCELLANEOUS				
					KITCHEN				
					ELECTRIC HEAT	16320	100%	16320	45
					EV CHARGING				
					EXISTING	55372	125%	69215	192
					TOTAL	96267		106657	302

[illegible]

NOTE:

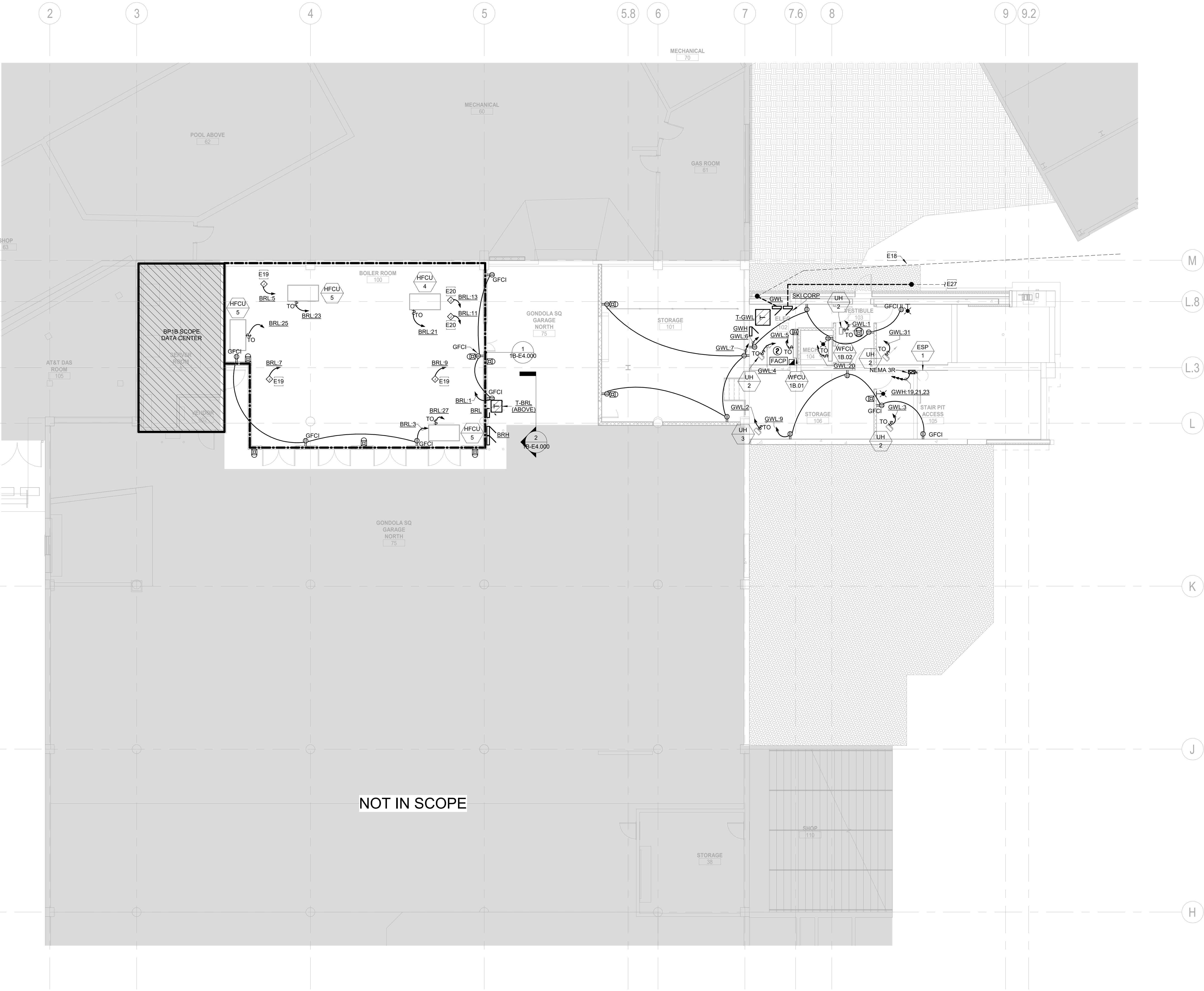
1. LOAD INDICATED ABOVE AS ZERO LOAD IS EXISTING LOAD TO BE REIRCUITED TO NEW PANEL IN NEW LOCATION.
2. THIS PANEL WAS METERED BY THE CONSTRUCTION TEAM FOR 30 DAYS FROM 3/18/21 THROUGH 4/23/21. THE EXISTING LOAD ABOVE WAS THE PEAK DEMAND LOAD OBTAINED DURING THIS TIME UNDER NORMAL BUILDING OCCUPANCY AND OPERATION.

NOTE:
1. EXISTING PANELS BEING REFEED FROM THIS NEW PANEL HAVE BEEN METERED BY THE CONSTRUCTION TEAM FOR 30 DAYS FROM 3/18/21 THROUGH 4/23/21. THE EXISTING LOADS ABOVE WERE THE PEAK DEMAND VALUES OBTAINED DURING THIS TIME UNDER NORMAL BUILDING OCCUPANCY AND OPERATION.



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A map of the United Kingdom with a shaded region in the south-east labeled with a large black letter 'B', indicating the location of the study area.



GENERAL NOTES:

1. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR.

2. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION AND INSTALLED IN A NEAT AND CONSISTENT MANNER. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO THE LACK OF COORDINATION WITH ARCHITECT. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS INDICATING ALL PROPOSED EXPOSED CONDUIT ROUTING.

3. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY AND GYP. WALLS.

4. THIS CONTRACTOR SHALL REFER TO "MEP" SERIES DRAWINGS FOR ALL MECHANICAL EQUIPMENT ELECTRICAL CONNECTIONS.

5. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.

KEYNOTES

E18 EXISTING FEEDS TO PANELS PREVIOUSLY FED FROM EXISTING PANEL GL SHALL BE LOCATED BY THE CONTRACTOR, INTERCEPTED, AND EXTENDED TO THE NEW PANEL LOCATION INDICATED PER PLAN. PANELS THAT LOOK TO NEED POWER FROM THIS SERVICE INCLUDE UMBRELLA BAR, GL2, BBO PANEL IN EXISTING GL PANEL IN EXISTING BOILER ROOM.

E19 PROVIDE 20A/120V/1P ELECTRICAL CONNECTION FOR MISCELLANEOUS BOILER ROOM MECHANICAL CONTROLS. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT CONNECTIONS LOCATIONS AND REQUIREMENTS.

E20 PROVIDE 20A/120V/1P ELECTRICAL CONNECTION FOR MISCELLANEOUS SNOW MELT SYSTEM CONTROLS. COORDINATE WITH MECHANICAL CONTRACTOR AND SNOW MELT DRAWINGS FOR EXACT CONNECTIONS LOCATIONS AND REQUIREMENTS.

E27 INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITS CURRENTLY FED FROM PANEL 'SKI CORP'. EXISTING CIRCUITS SHALL EXTEND AND TERMINATE AT NEW PANEL WITH NEW BREAKER OF SAME NAME AND TYPE.

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△	Date	Description
-	2021.05.19	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT

Seal / Signature



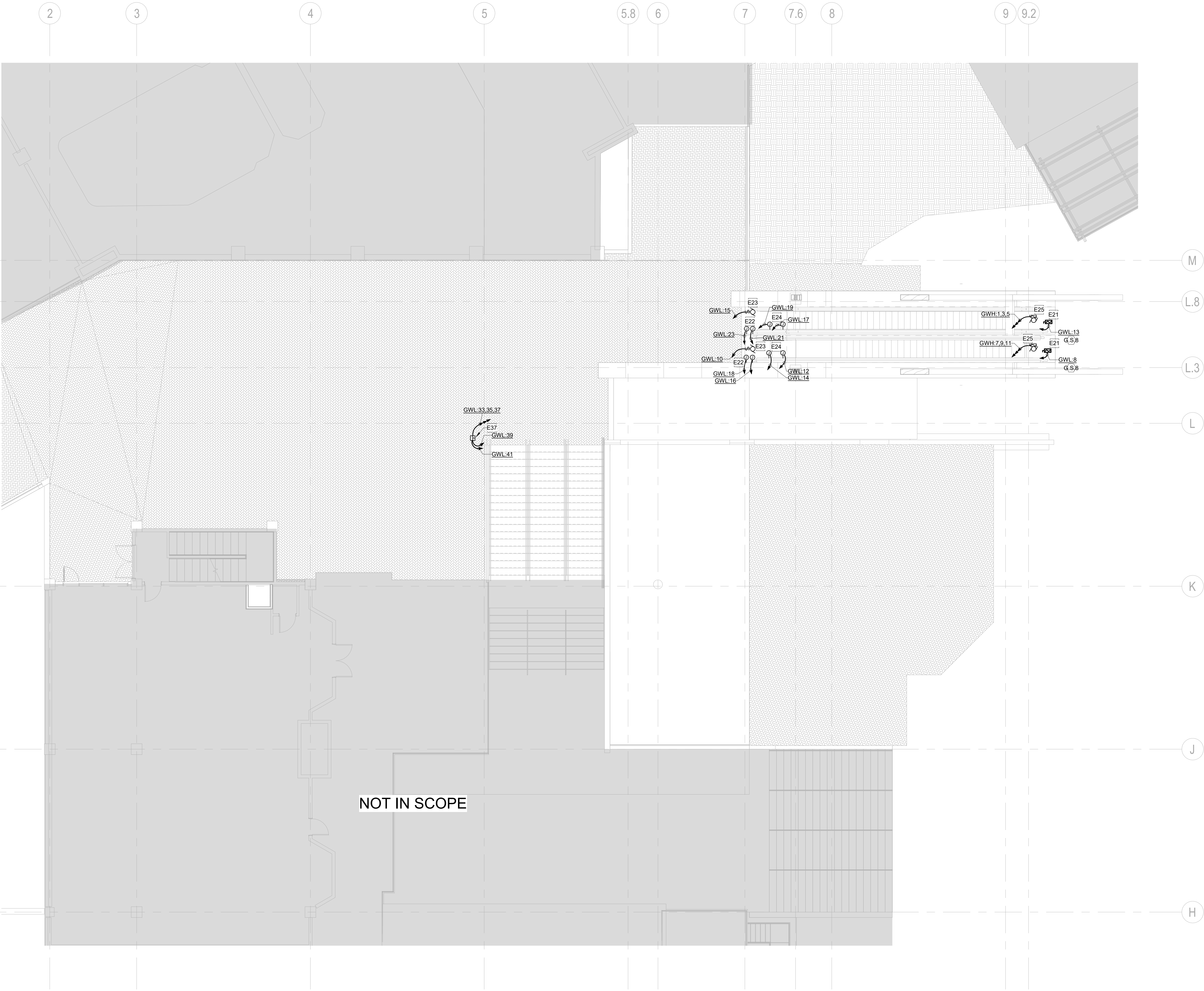
Project Name
SSRC | BASE AREA IMPROVEMENTS

Project Number
003.7835.000

Description
GOLD WALK - ELECTRICAL PLAN - LEVEL 01

Scale
1/8" = 1'-0"

1B-E1.201



GENERAL NOTES:

1. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR.

2. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION AND INSTALLED IN A NEAT AND CONSISTENT MANNER. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO THE LACK OF COORDINATION WITH ARCHITECT. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS INDICATING ALL PROPOSED EXPOSED CONDUIT ROUTING.

3. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY AND GYP. WALLS.

4. THIS CONTRACTOR SHALL REFER TO "MEP" SERIES DRAWINGS FOR ALL MECHANICAL EQUIPMENT ELECTRICAL CONNECTIONS.

5. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.

KEYNOTES	
E21	PROVIDE 30A/120V/1P ELECTRICAL CONNECTION FOR ESCALATOR SKIRT LIGHTING. ROUTE CIRCUIT THROUGH LIGHTING CONTROL PANEL FOR ON/OFF CONTROL OF LIGHTING. REFER TO ESCALATOR SHOP DRAWINGS FOR EXACT POINT OF CONNECTION AT ESCALATOR PITS.
E22	PROVIDE (2) 30A/120V/1P ELECTRICAL CONNECTIONS PER ESCALATOR FOR ESCALATOR STEP BAND HEATING. REFER TO ESCALATOR SHOP DRAWINGS FOR EXACT POINT OF CONNECTION AT ESCALATOR PITS.
E23	PROVIDE 20A/120V/1P ELECTRICAL CONNECTION FOR ESCALATOR HEATING FAN. REFER TO ESCALATOR SHOP DRAWINGS FOR EXACT POINT OF CONNECTION AT ESCALATOR PITS.
E24	PROVIDE (2) 20A/120V/1P ELECTRICAL CONNECTIONS PER ESCALATOR FOR COMPLATE HEATING. REFER TO ESCALATOR SHOP DRAWINGS FOR EXACT POINT OF CONNECTION AT ESCALATOR PITS.
E25	PROVIDE 480V/3P ELECTRICAL CONNECTION FOR ESCALATOR MOTOR. REFER TO ESCALATOR SHOP DRAWINGS FOR EXACT CONNECTION REQUIREMENTS AND LOCATION.
E37	PROVIDE NEMA3R SITE POWER PEDESTAL ENCLOSURE WITH (2) NEMA 5-20R TYPE QUAD RECEPTACLES, (1) CS6369, AND (1) 2-PORT DATA OUTLET. ELECTRICAL DEVICES SHALL HAVE DEDICATED CIRCUITS. REFER TO 12/18-ER-002 FOR MORE INFORMATION. COORDINATE EXACT LOCATION WITH LANDSCAPE PRIOR TO INSTALLATION.



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Date	Description
2021.05.19	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT

Seal / Signature



Project Name
SSRC | BASE AREA IMPROVEMENTS

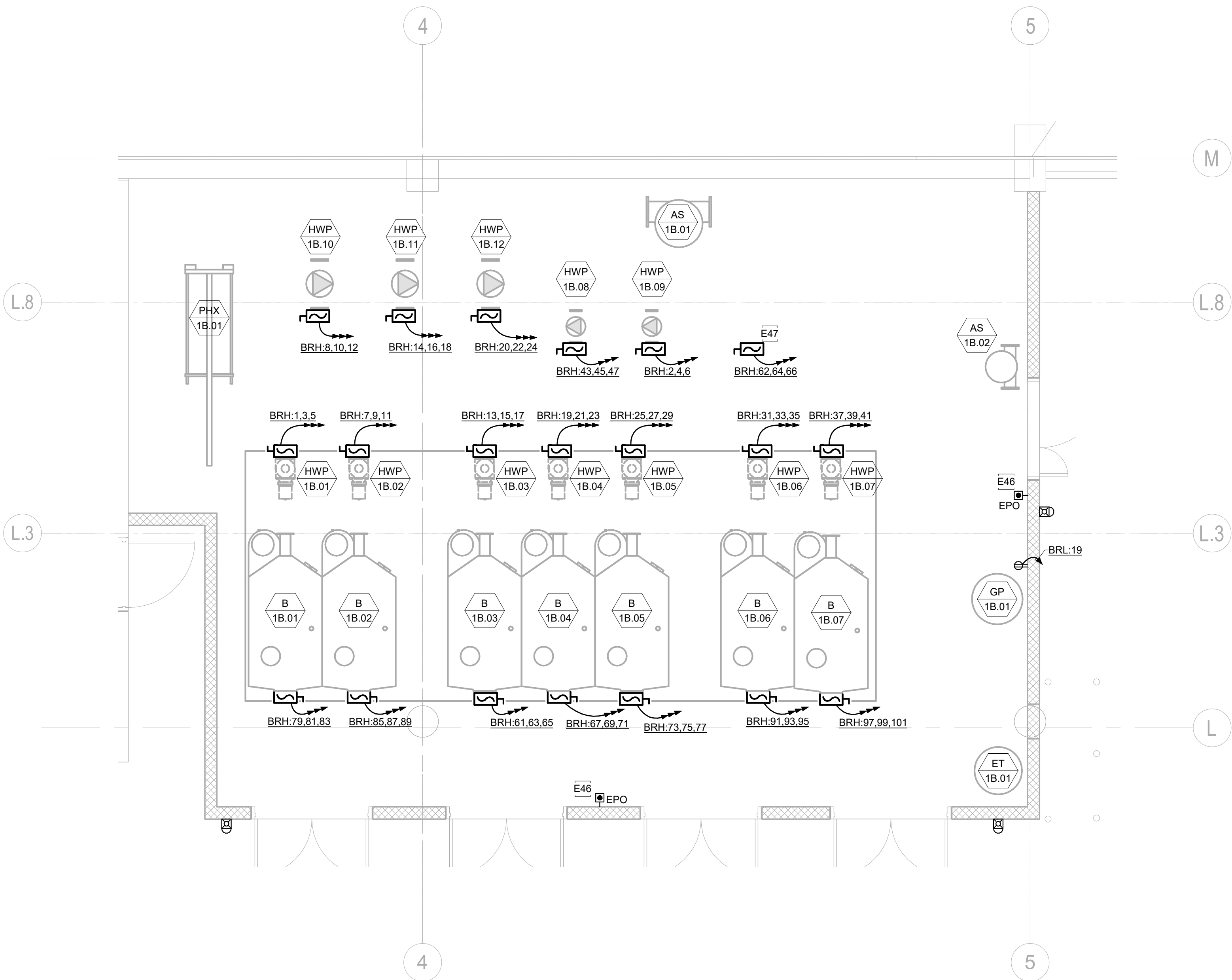
Project Number
003.7835.000

Description
GOLD WALK - ELECTRICAL PLAN - LEVEL 03

Scale
1/8" = 1'-0"

1B-E1.203



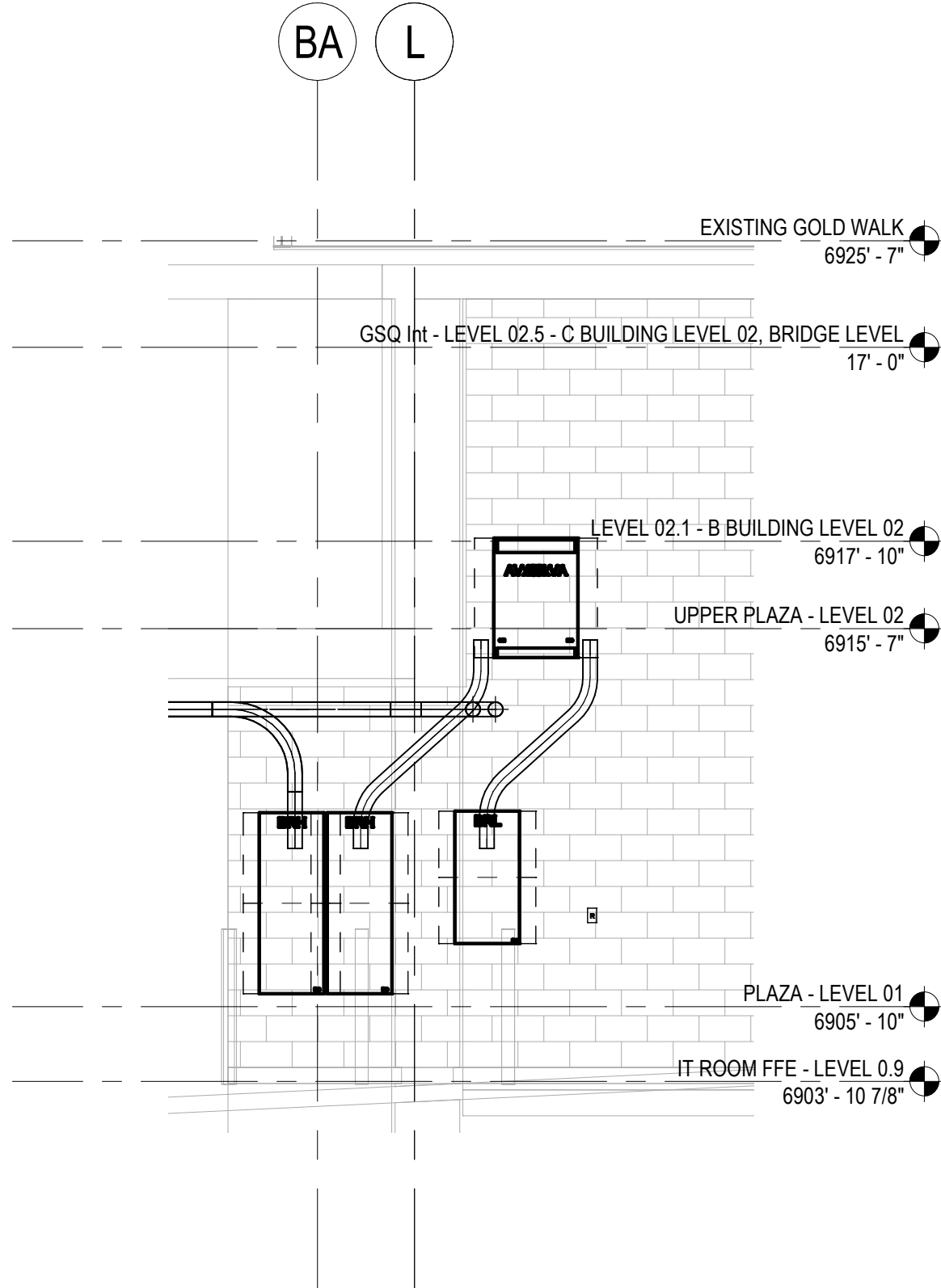


CONTRACTOR SHALL SUBMIT SCALED SHOP DRAWINGS INDICATING REAL DIMENSIONS, VFD/DISCONNECT LOCATIONS, SKID DETAILS, OMUNTING CONFIGURATIONS,E TC FOR ALL EQUIPMENT WITHIN THIS ROOM TO ENSURE APPROPRIATE CODE REQUIRED CLEARANCES PRIOR TO PURCHASE OF ANY EQUIPMENT BEING LOCATED WITHIN THIS ROOM. NOT SUBMITTING THESE DRAWINGS ALONG WITH PRODUCT DATA WILL BE CAUSE FOR REJECTION OF SUBMITTAL.

1 ENLARGED ELECTRICAL BOILER ROOM PLAN

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

SNOW MELT SYSTEM - PUMP SCHEDULE								GOLD WALK
PUMP TAG	HP	VOLT	PH	FLA	FUSE	DISCON.	FEEDER	COMMENTS
SKID CONNECTION	-	480	3	182	250A LPS-RK	400A/3P	(4#250, #4G) 3°C	C
P-1	15	480	3	21	-	-	-	A,C
P-2	15	480	3	21	-	-	-	A,C
P-3	15	480	3	21	-	-	-	A,C
P-4	15	480	3	21	-	-	-	A,C
P-5	10	480	3	14	-	-	-	A,C
P-6	15	480	3	21	-	-	-	A,C
P-8	15	480	3	21	-	-	-	A,B,C
P-9	15	480	3	21	-	-	-	A,B,C
P-10	15	480	3	21	-	-	-	A,B,C
COMMENTS:								
A: REFER TO SNOW MELT DESIGNER DRAWINGS FOR EXACT PUMP AND CONNECTION REQUIREMENTS.								
CONNECTIONS TO BE MADE AT VFD AND AT MOTOR BY THIS CONTRACTOR.								
B: PUMP TO BE ISSUED AS A PART OF THE TRANSIT CENTER PACKAGE.								
C: SNOW MELT PUMP SKID TO HAVE A SINGLE POINT CONNECTION. MANUFACTURER TO PROVIDE								
SINGLE POINT OF CONNECTION AND LOCAL DISCONNECTING MEANS FOR NEC COMPLIANCE.								



2 BOILER ROOM ELECTRICAL EQUIPMENT MOUNTING

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

GENERAL NOTES:

1. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR.

2. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL, AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION AND INSTALLED IN A NEAT AND CONSISTENT MANNER. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO THE LACK OF COORDINATION WITH ARCHITECT.

CONTRACTOR SHALL PROVIDE SHOP DRAWINGS INDICATING ALL PROPOSED EXPOSED CONDUIT ROUTING.

3. ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL VERTICAL SECTIONS OF CONDUIT SHALL BE CONCEALED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN CONCRETE, MASONRY AND GYP. WALLS.

4. THIS CONTRACTOR SHALL REFER TO "MEP" SERIES DRAWINGS FOR ALL MECHANICAL EQUIPMENT ELECTRICAL CONNECTIONS.

5. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.

KEYNOTES

E46 PROVIDE EPO PUSH BUTTON TIED TO SHUNT TRIP MAIN BREAKER ON PANEL 'BRH' FOR BOILER ROOM. LOCATE BEHIND ACRYLIC COVER OR SIMILAR. LABEL THIS BUTTON 'BOILER ROOM POWER SHUTOFF'.

E47 PROVIDE SINGLE POINT ELECTRICAL CONNECTION FOR SNOW MELT PUP SKID AT SKID PANEL. PROVIDE ADEQUATE WORKING CLEARANCE IN FRONT OF SKID PANEL. REFER TO SNOW MELT PUMP DESIGNER DRAWINGS AND SPECS AS WELL AS MANUFACTURER REQUIREMENTS FOR EXACT CONNECTION REQUIREMENTS.

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me
engineers

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Date	Description
2021.05.19	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT

Seal / Signature



Project Name

SSRC | BASE AREA
IMPROVEMENTS

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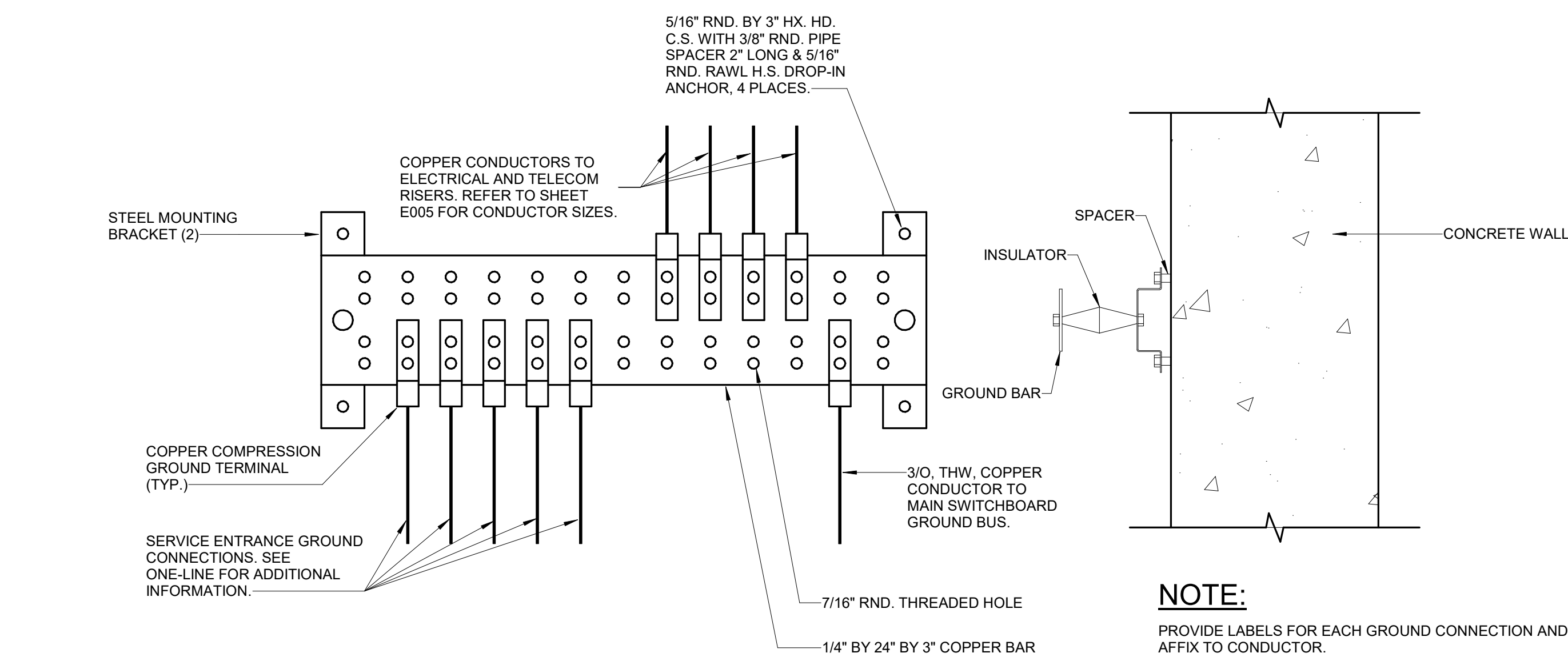
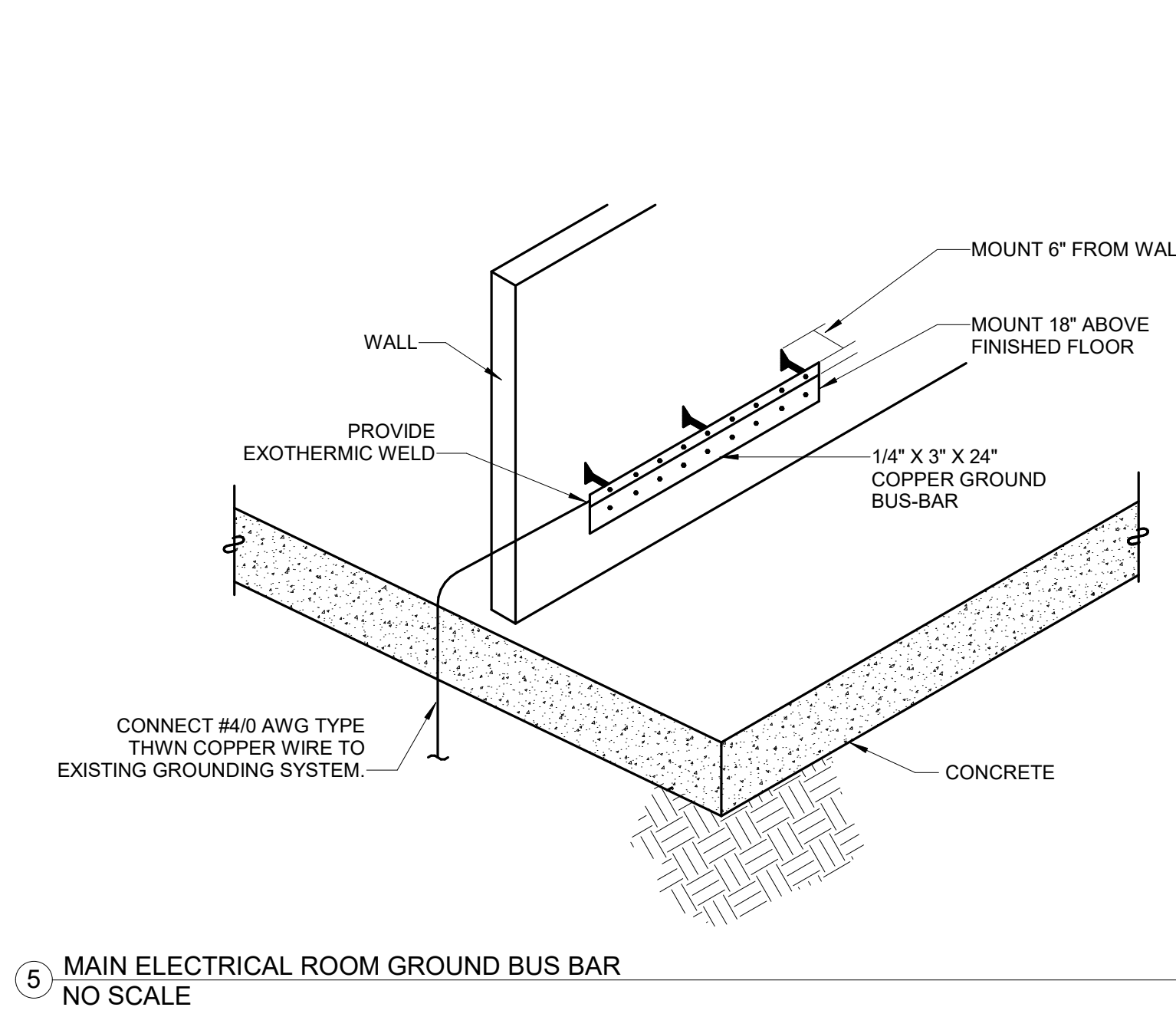
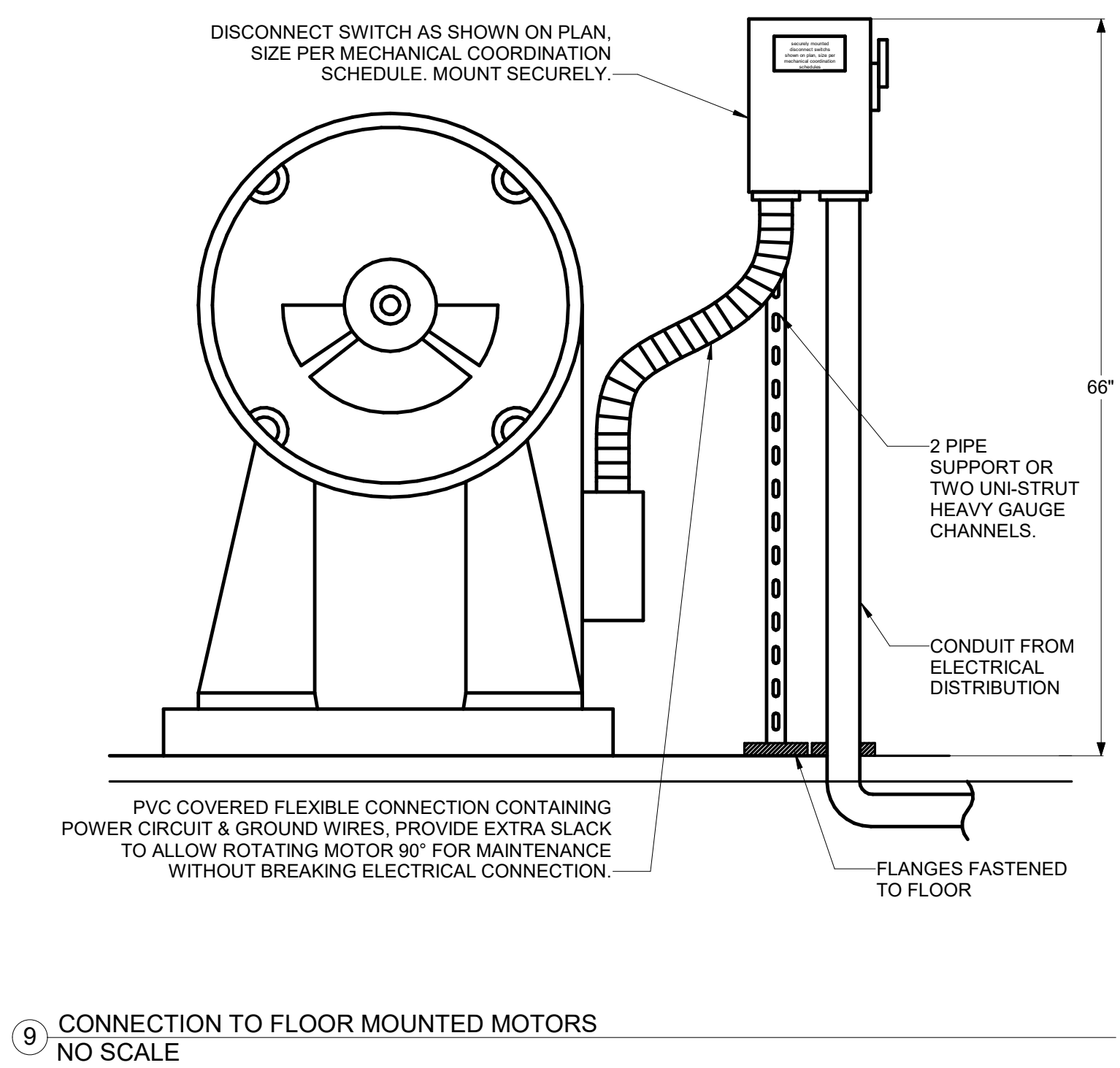
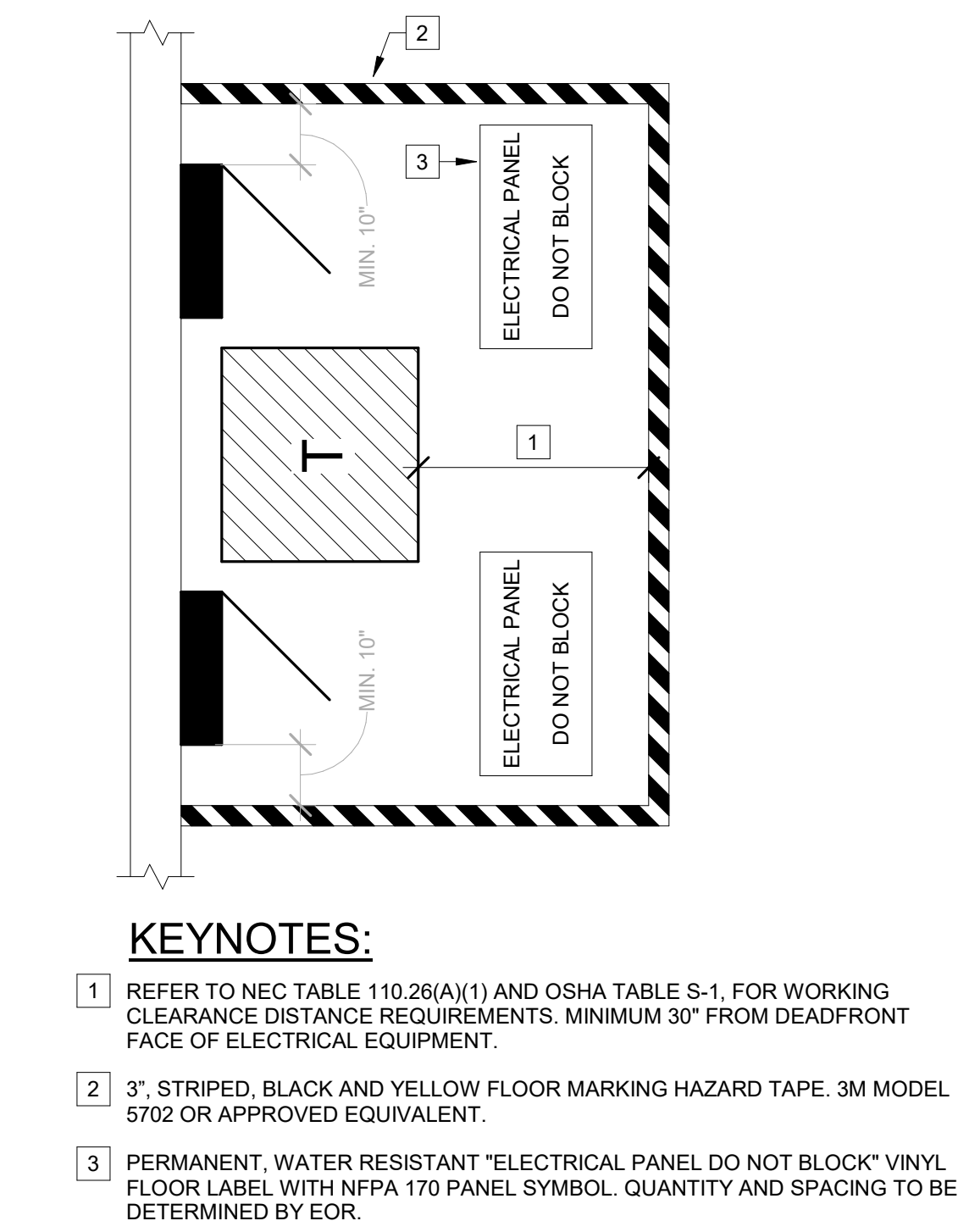
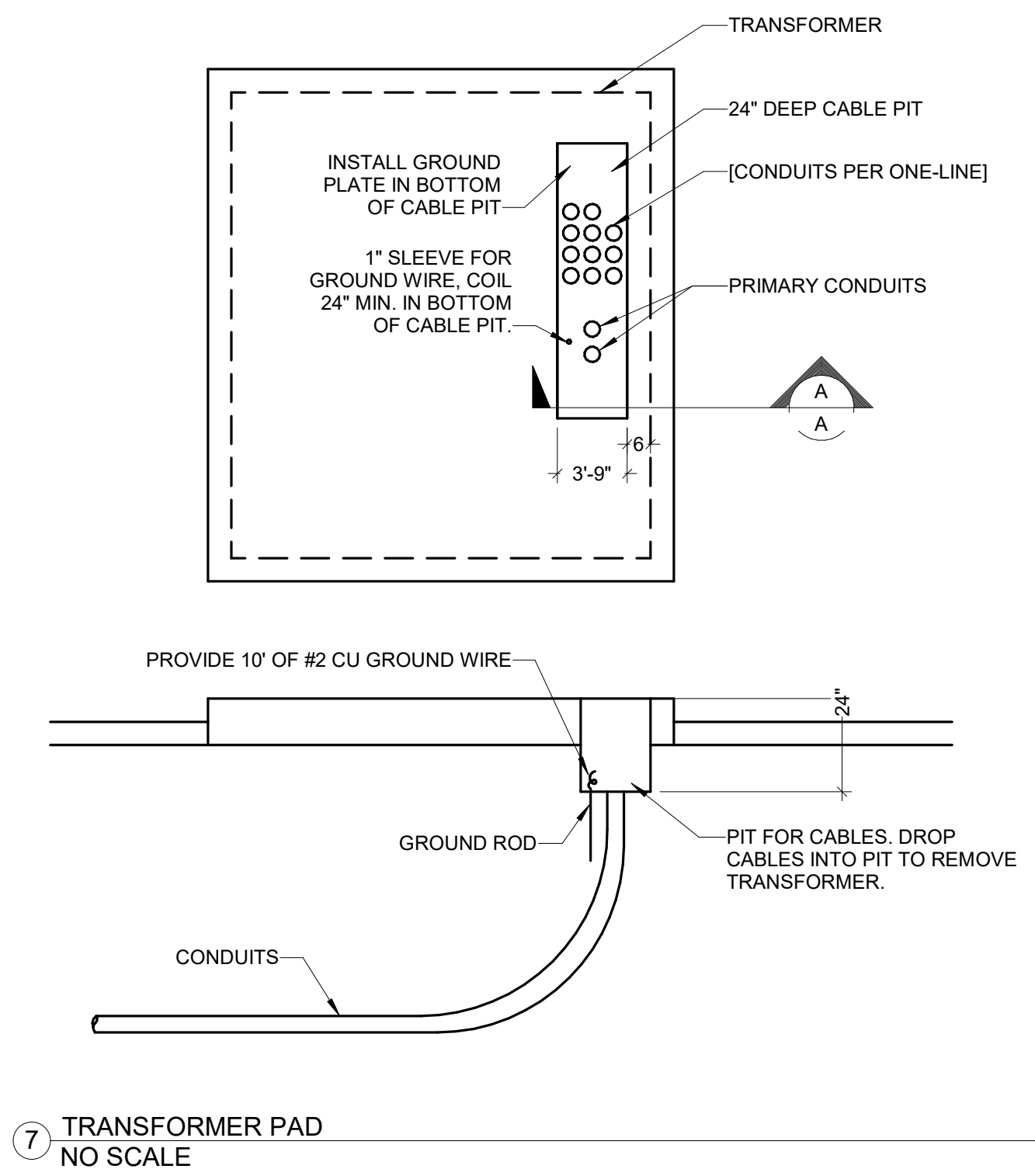
Description

GOLD WALK - ELECTRICAL
ENLARGED PLANS AND SECTIONS

Scale

1/4" = 1'-0"

1B-E4.000



GENERAL NOTES

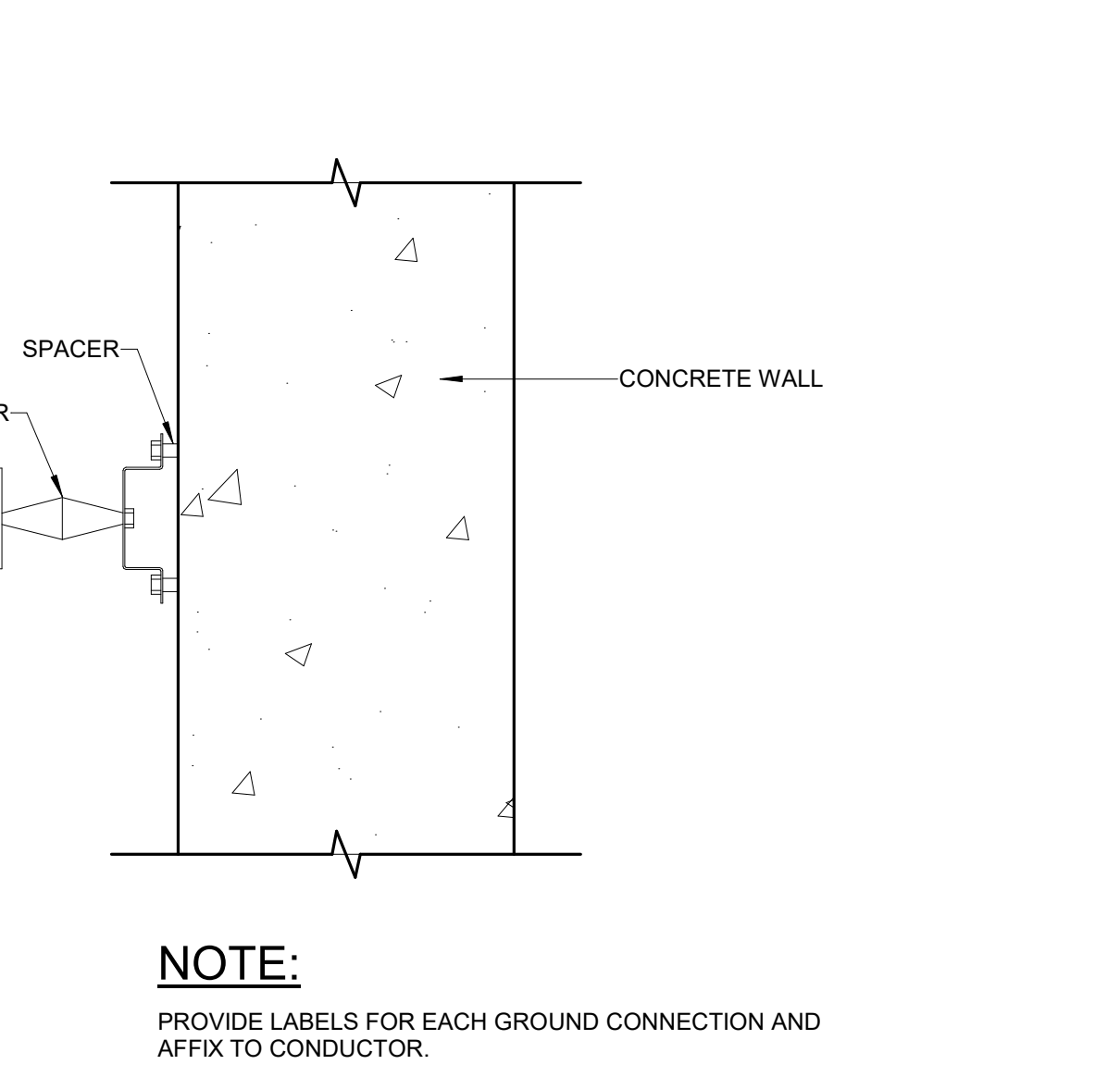
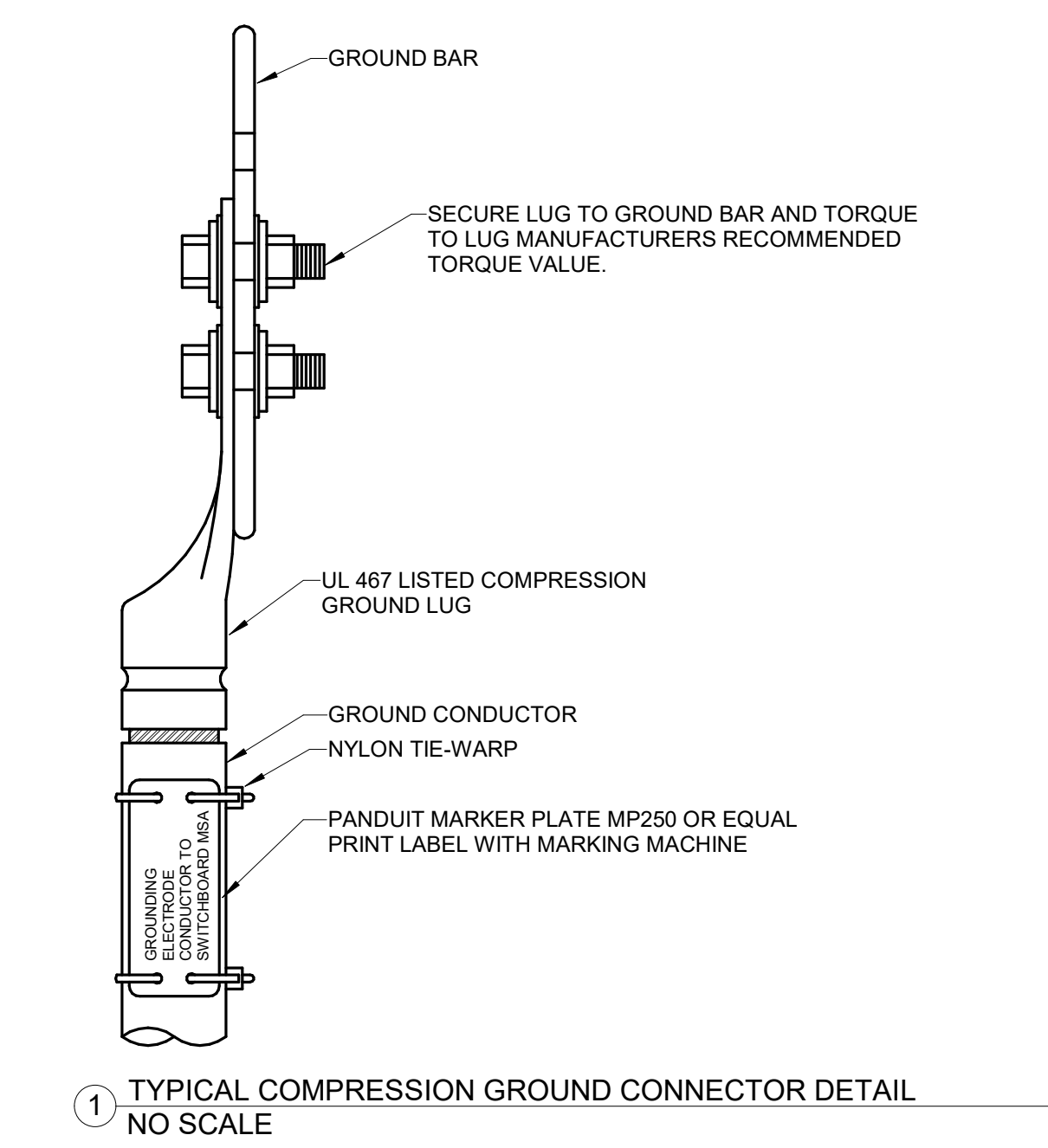
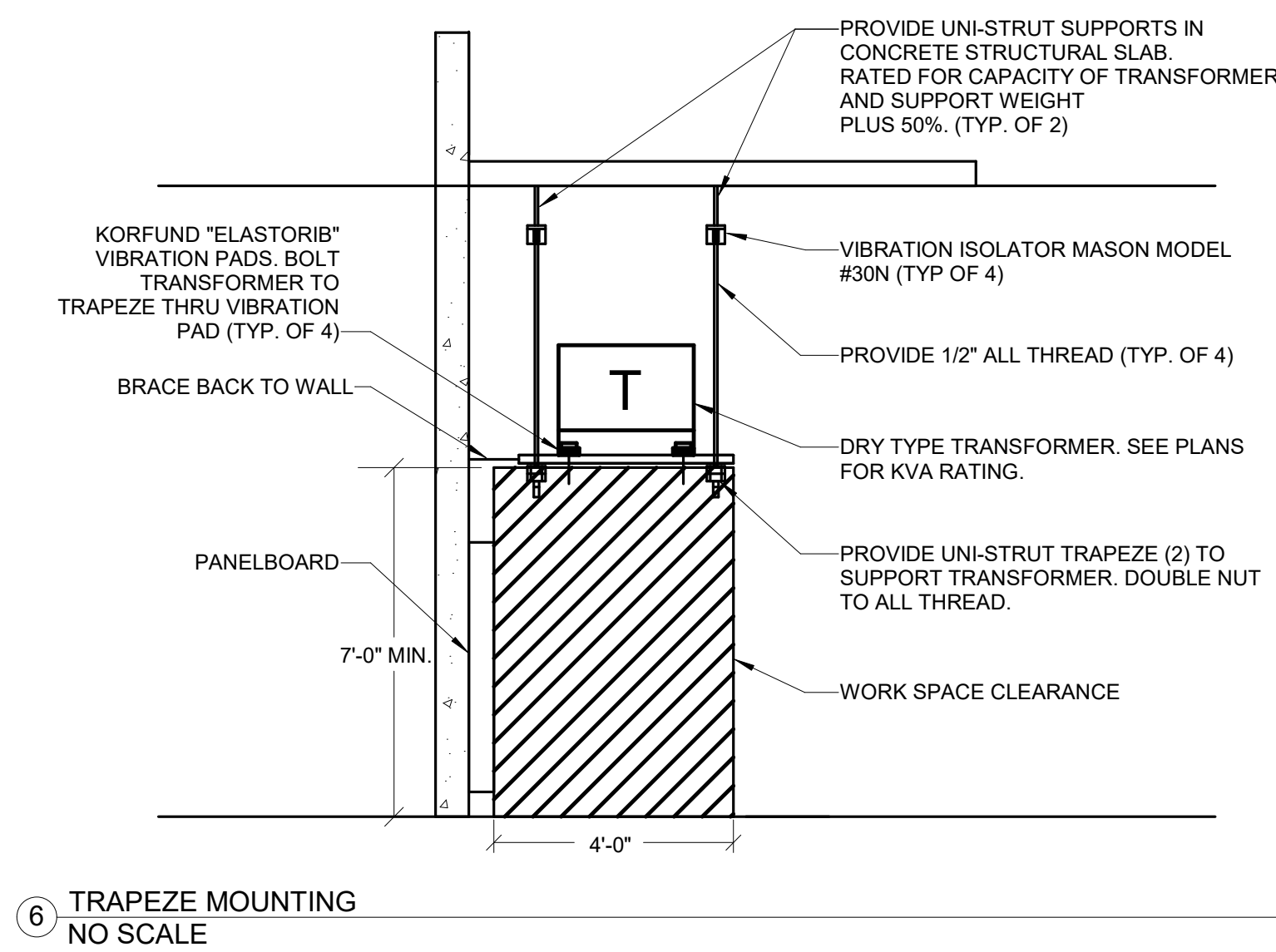
- REFER TO PLAN DRAWINGS FOR QUANTITIES AND LOCATIONS
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS

KEY NOTES

- CONCRETE ENCASED ELECTRODE PER NEC 250.52
- ELECTRICAL ROOM GROUND BAR REFER TO SPECIFICATIONS. CONNECTIONS TO BE BY EXOTHERMIC WELD.
- GROUND ROD, REFER TO SPECIFICATIONS.
- EXOTHERMIC WELD OR COMPRESSION CONNECTION
- GROUND RISER, REFER TO GROUNDING RISER DIAGRAM
- PROVIDE EXOTHERMIC WELD AT APPROXIMATE LOCATION ON STEEL COLUMN. LOCATION TO BE BELOW FINAL POURED CONCRETE SLAB
- VERIFY FOR LIGHTING PROTECTION] PROVIDE COPPER WIRE (SIZE PER NFPA 780) FOR LIGHTNING PROTECTION DOWNLEAD CONDUCTOR
- CONNECT DOWNLEAD CONDUCTOR TO GROUND LOOP AND PROVIDE GROUND ROD AT THIS LOCATION.
- PVC CONDUIT, CONCEAL IN WALLS OR CHASES OR PROVIDE ARCHITECTURAL CHASE. NOT TO BE RUN EXPOSED OR ABOVE CEILINGS.
- PROVIDE GROUND LOOP AS REQUIRED FOR LIGHTING PROTECTION AND PER PLANS AND SPECIFICATIONS.

GROUNDING DETAILS

NO SCALE



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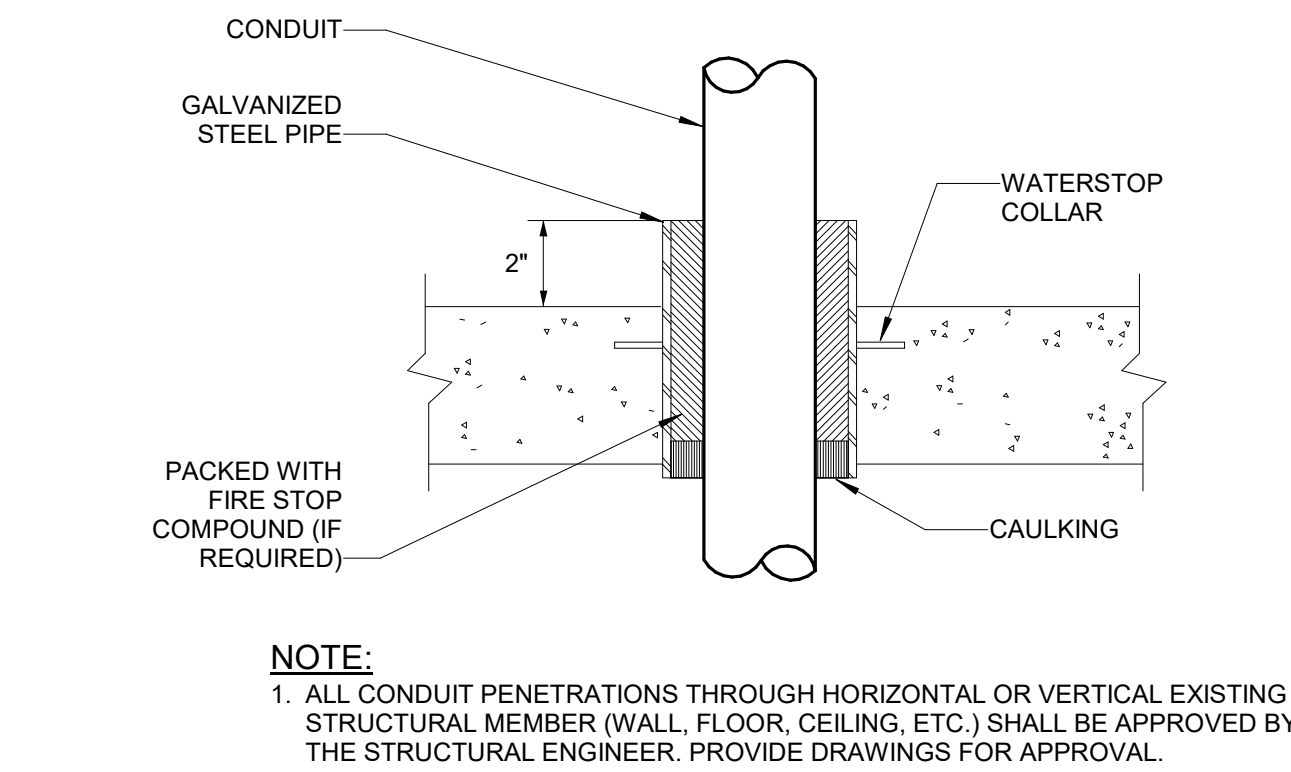
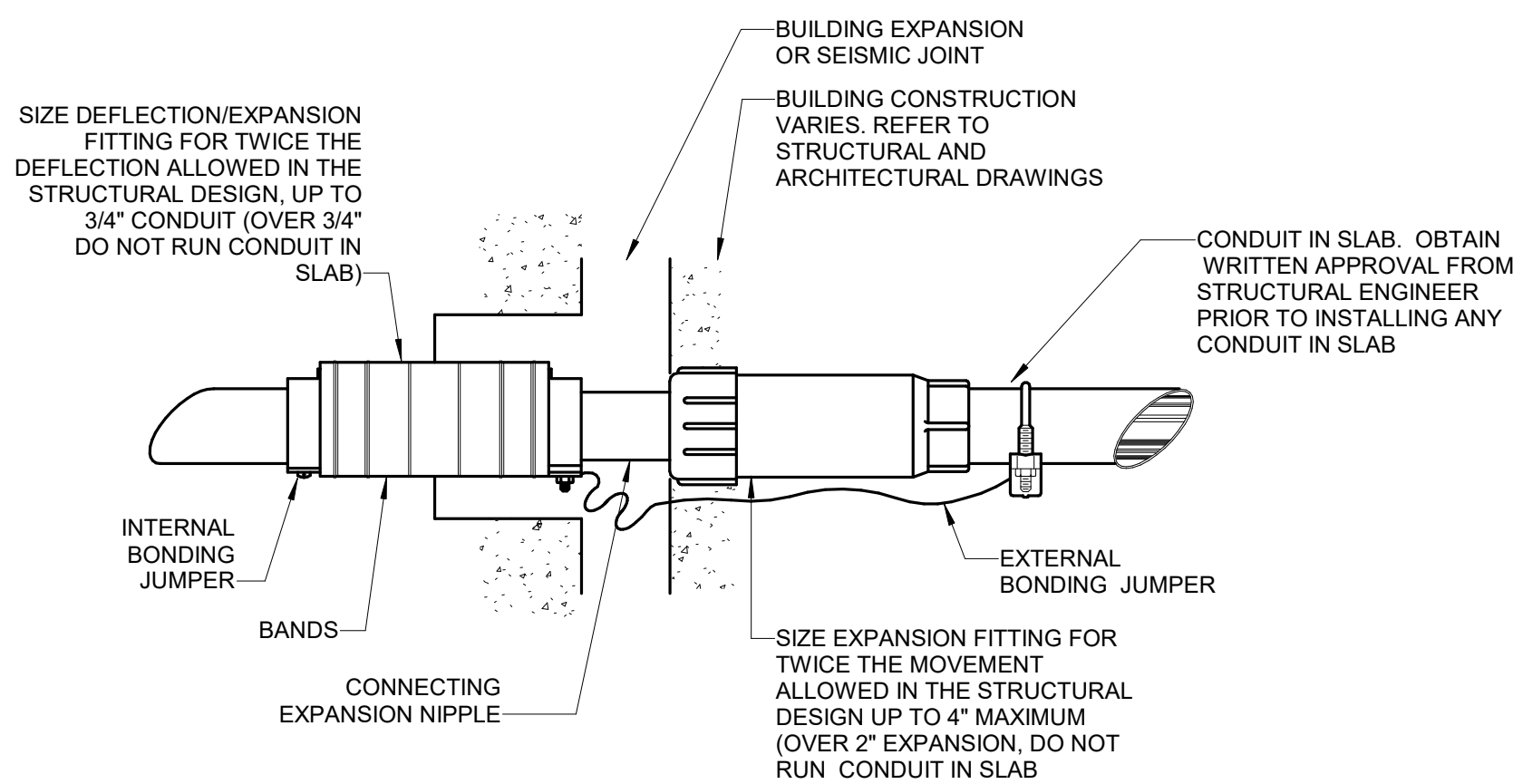
Project Name
SSRC | BASE AREA IMPROVEMENTS

Project Number
003.7835.000

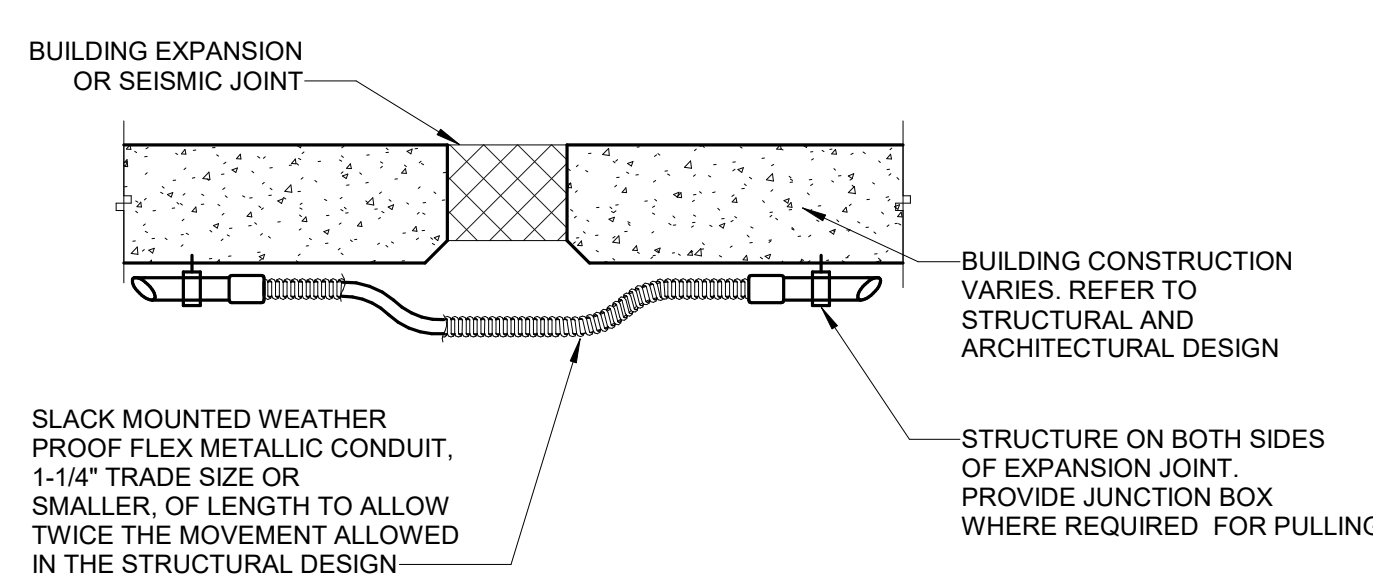
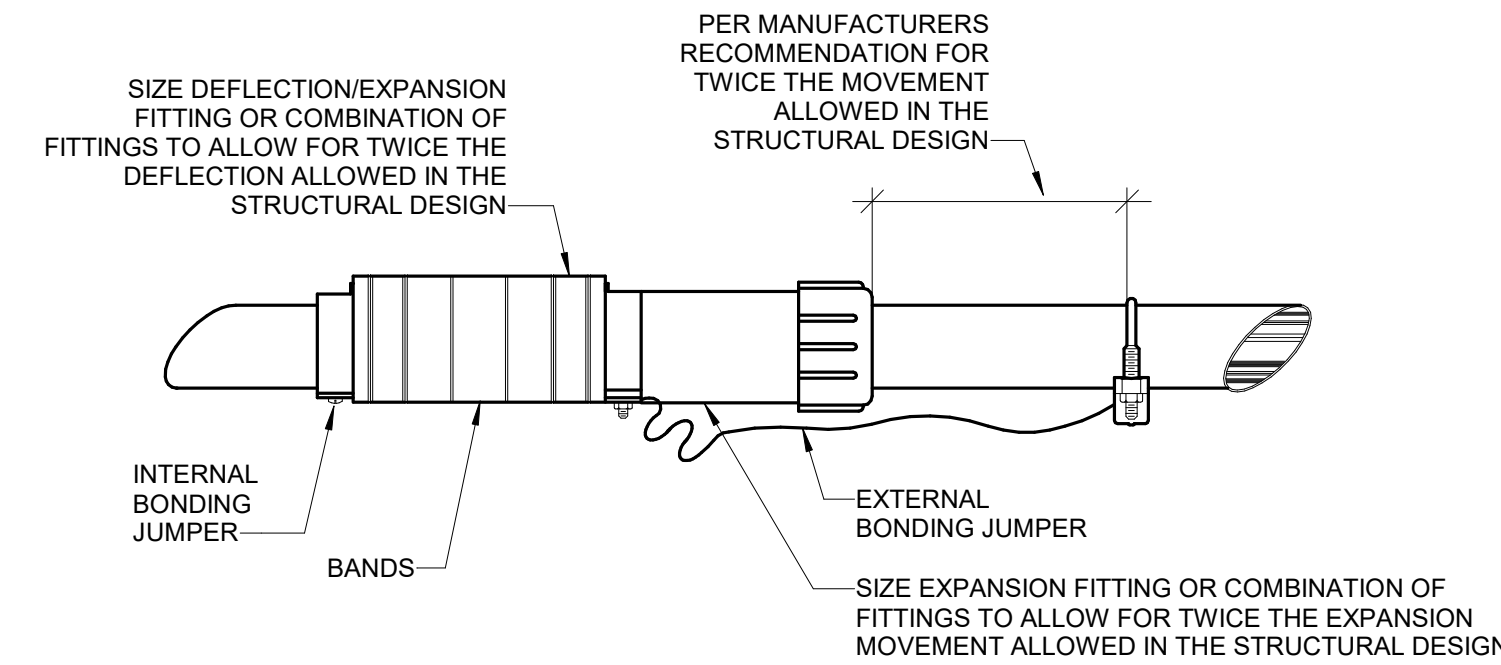
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GOLD WALK - ELECTRICAL DETAILS

Scale
NO SCALE

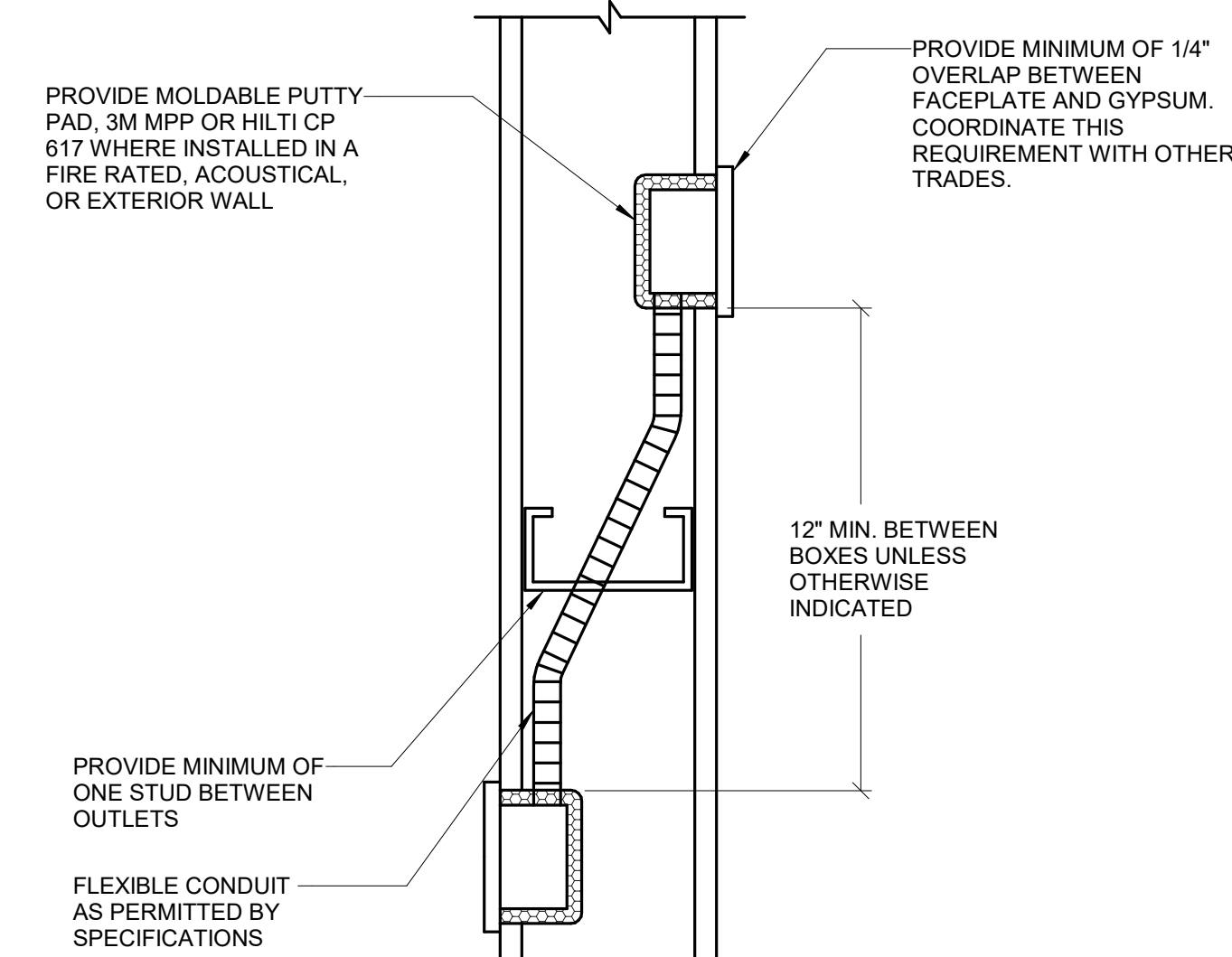
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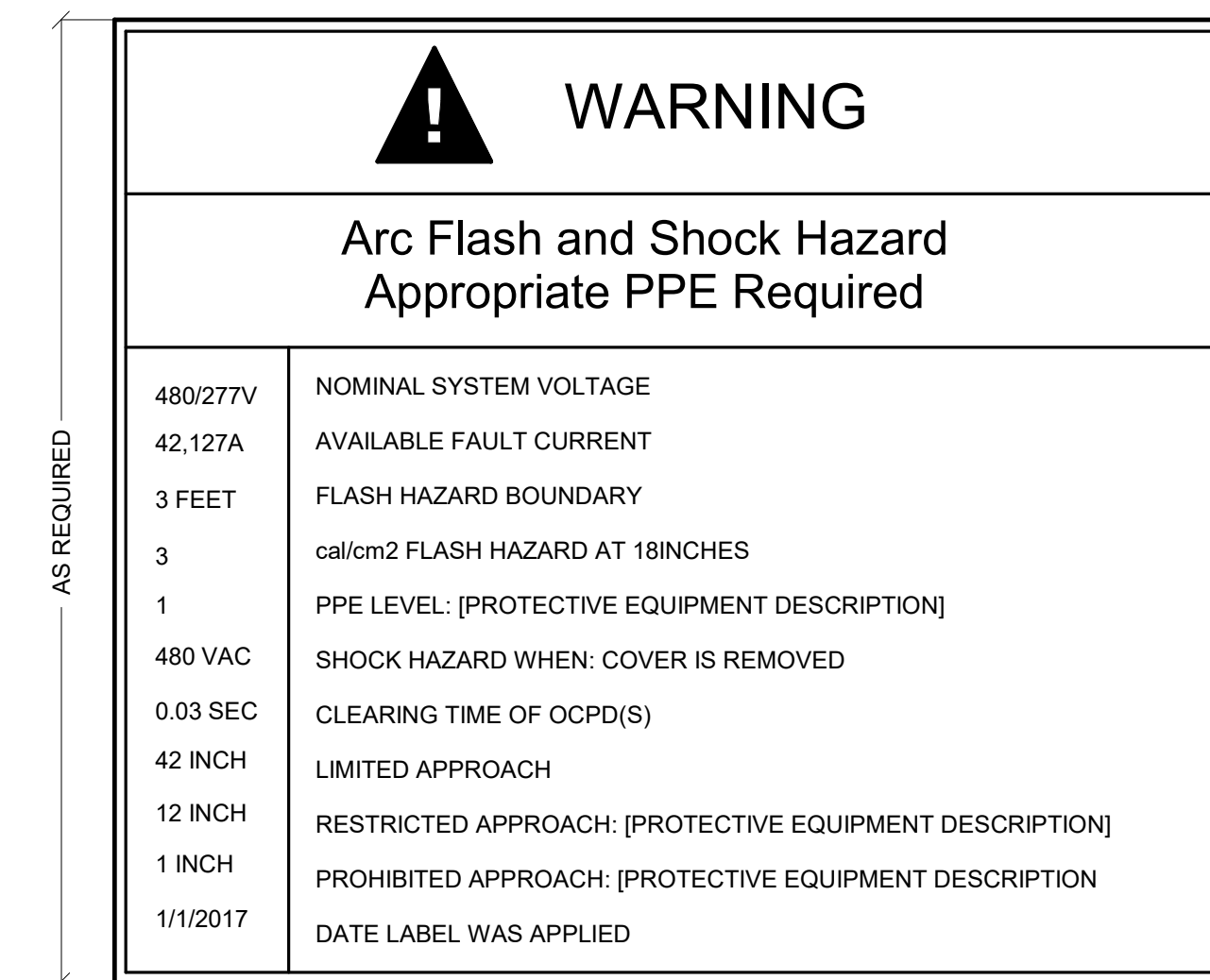
COMBINATION EXPANSION/DEFLECTION FITTING IN SLAB



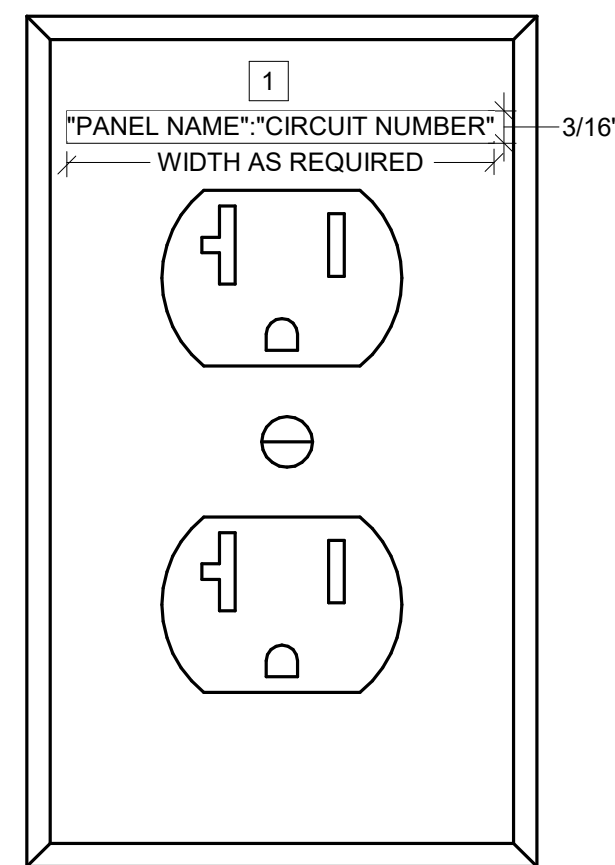
FLEX CONDUIT EXPANSION/DEFLECTION



BACK TO BACK BOXES ARRANGEMENT-NOISE/FIRE RATING



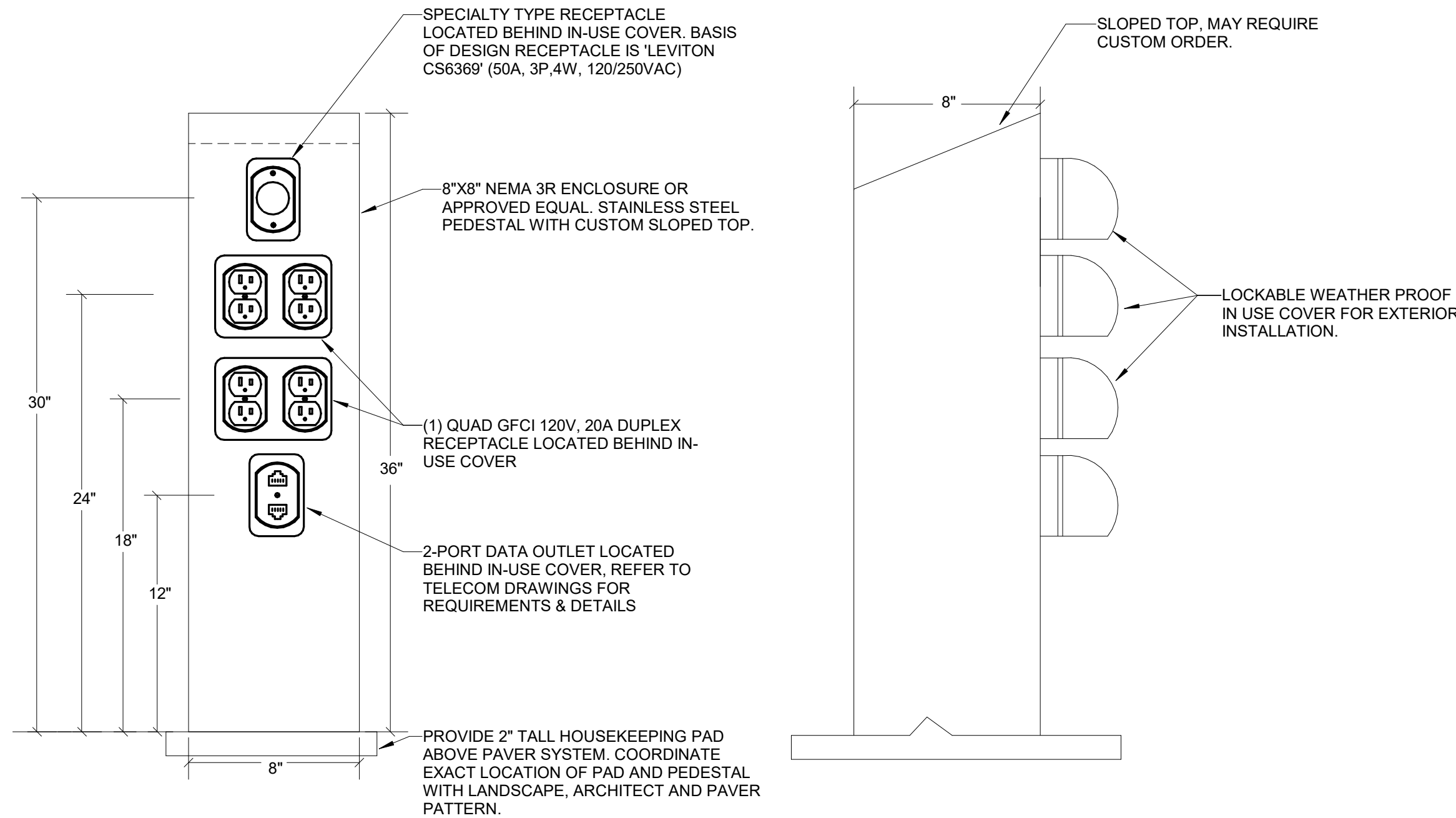
ARC FLASH LABEL



KEYNOTES:

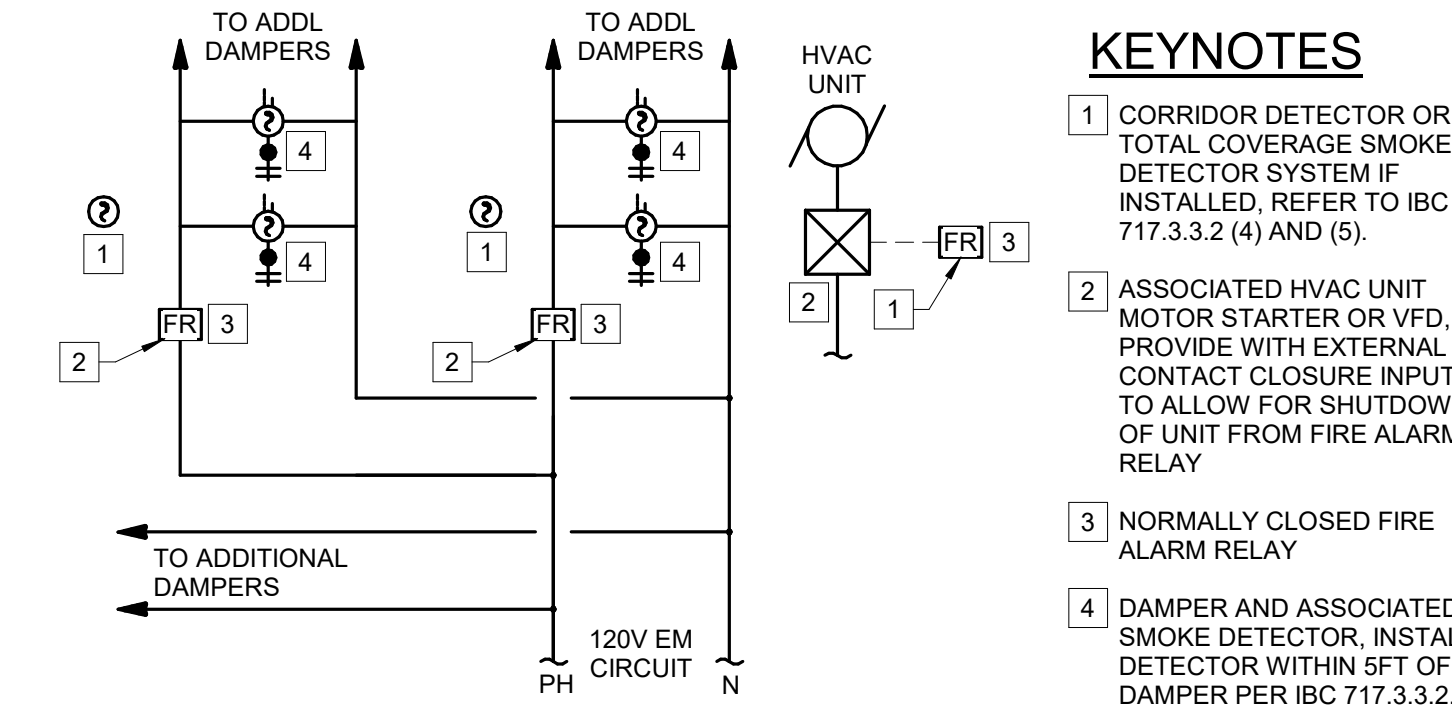
- 1 PROVIDE BLACK LETTERING ON CLEAR LABEL FOR NORMAL CIRCUITS AND RED LETTERING ON CLEAR LABEL FOR EMERGENCY/STANDBY CIRCUITS.

RECEPTACLE IDENTIFICATION



- NOTES:
1. ENCLOSURE SHALL BE A UL LISTED NEMA 3R TYPE, FABRICATED OF GALVANIZED STEEL.
 2. FINISH COLOR SHALL BE GRAY.
 3. THE ENTIRE ASSEMBLY SHALL BE UL LISTED.
 4. THE BASIS OF DESIGN MANUFACTURER IS UNION CONNECTOR

(DE) SITE POWER PEDESTAL - 36\"/>



SEQUENCE OF OPERATION:

UPON ACTIVATION OF A DUCT DETECTOR AT A HVAC UNIT, A DUCT DETECTOR ASSOCIATED WITH A DAMPER, CORRIDOR DETECTOR, OR TOTAL COVERAGE SMOKE DETECTOR:

1. THE FIRE ALARM RELAY ASSOCIATED WITH THE HVAC UNIT WILL OPEN CAUSING THE UNIT TO SHUT DOWN.
2. THE FIRE ALARM RELAY AT THE DAMPER POWER CIRCUIT WILL OPEN CAUSING THE DAMPERS TO CLOSE (FAIL-SAFE DAMPERS).

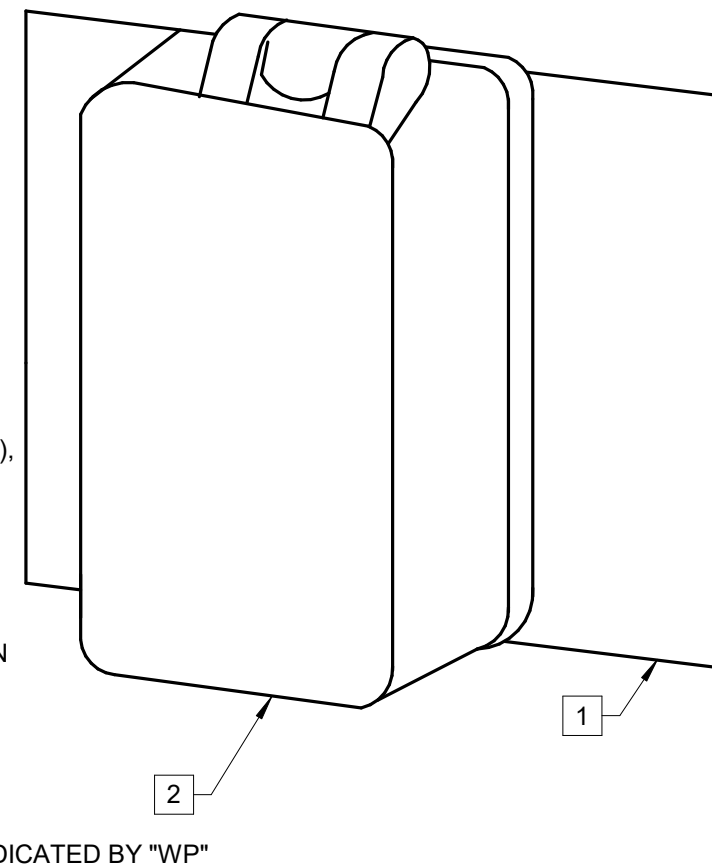
FIRE/SMOKE DAMPER

GENERAL NOTES:

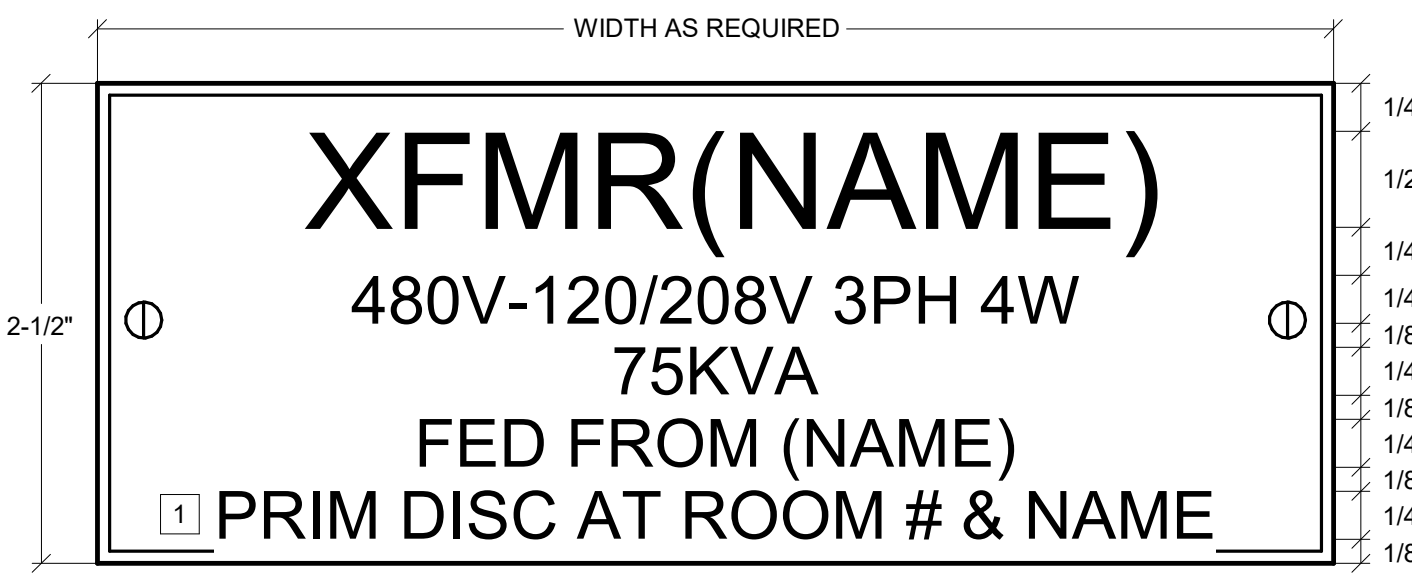
1. CONTRACTOR SHALL PROVIDE WEATHER PROOF COVER FOR ALL DEVICES WITH "WP" INDICATED AS PART OF SYMBOL ON PLAN DRAWINGS, U.N.O.

KEYNOTES:

1. BACK-BOX: FLUSH MOUNTED BOX WITH SINGLE GANG OR DOUBLE GANG COVER PLATE (AS APPLICABLE), SHOWN FOR REFERENCE ONLY.
2. COVER PLATE: PROVIDE UL LISTED WEATHERPROOF CAST ALUMINUM SINGLE GANG OR DOUBLE GANG COVER (AS APPLICABLE) THAT WILL ALLOW FOR CABLES TO REMAIN PLUGGED IN WHILE IN THE CLOSED POSITION.



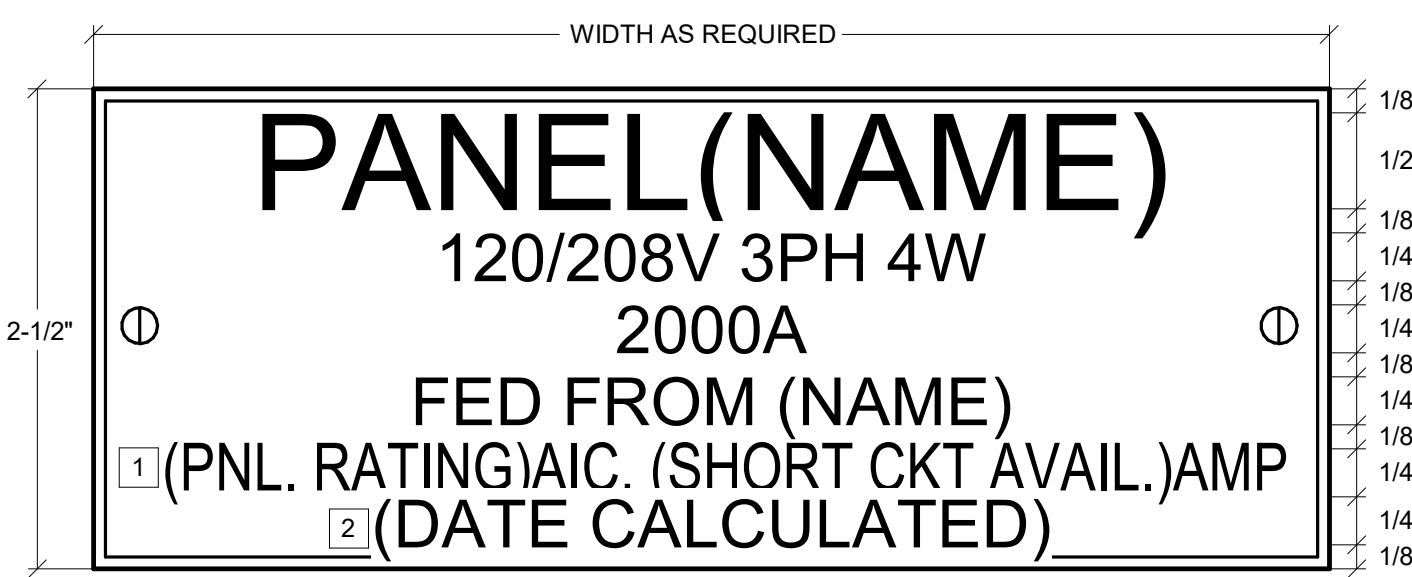
IN-USE WEATHER PROOF COVER



- NOTE:
1. SEE SPECIFICATIONS FOR ADDITIONAL NAMEPLATE INFORMATION.

- 1 INDICATE LOCATION OF PRIMARY DISCONNECT

TRANSFORMER NAMEPLATE

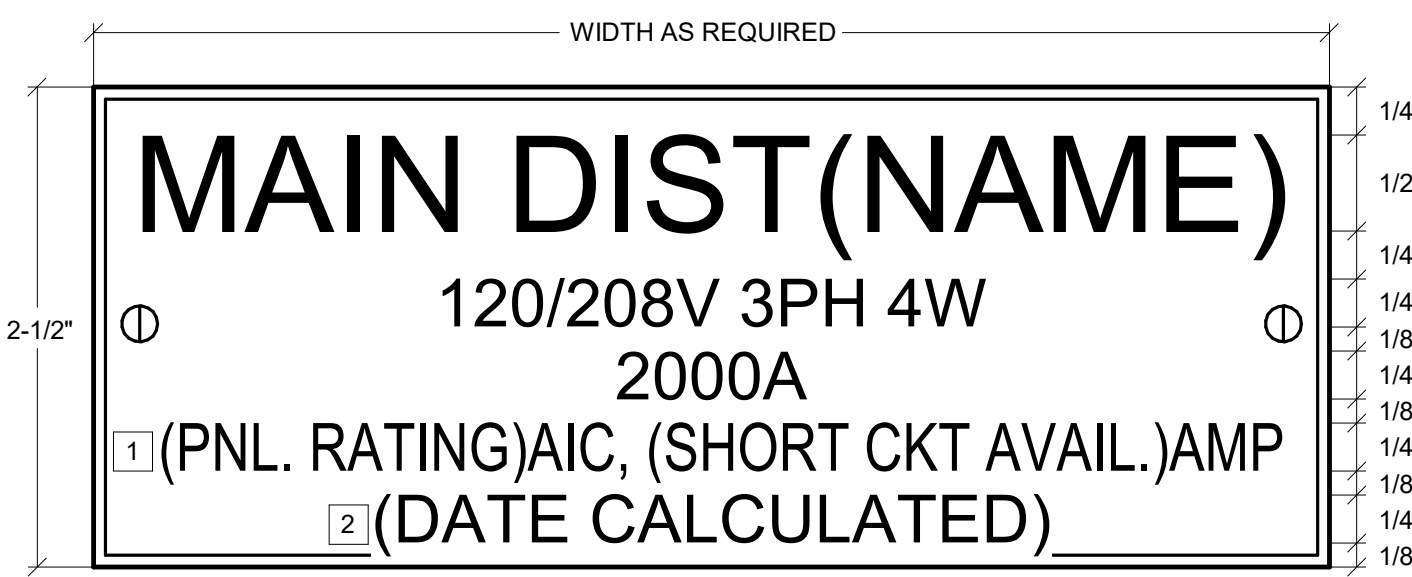


- NOTE:
1. SEE SPECIFICATIONS FOR ADDITIONAL NAMEPLATE INFORMATION.

- 1 INDICATE BUS BRACING VALUE AND AVAILABLE FAULT CURRENT.

- 2 PROVIDE AND INDICATE DATE OF CALCULATION.

SUB DIST. CENTER & BRANCH PANEL NAME PLATE

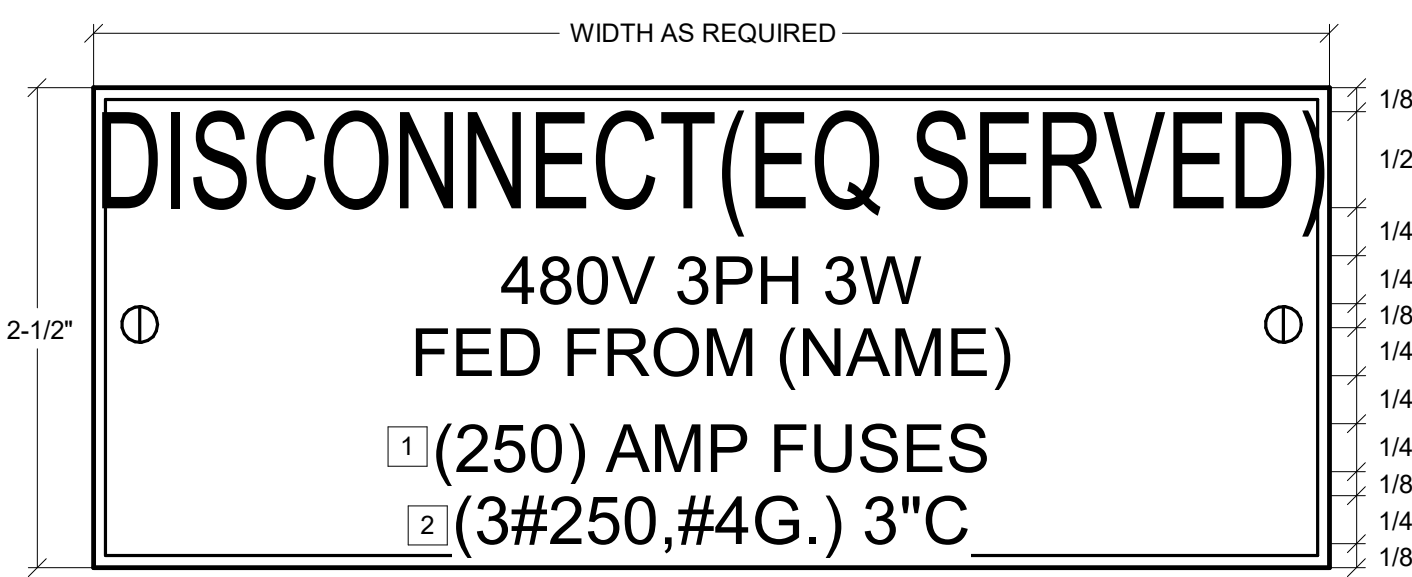


- NOTE:
1. SEE SPECIFICATIONS FOR ADDITIONAL NAMEPLATE INFORMATION.

- 1 INDICATE BUS BRACING VALUE AND AVAILABLE FAULT CURRENT.

- 2 PROVIDE AND INDICATE DATE OF CALCULATION.

MAIN DIST. CENTER NAMEPLATE



- NOTE:
1. SEE SPECIFICATIONS FOR ADDITIONAL NAMEPLATE INFORMATION.

- 1 INDICATE FUSE SIZE, IF APPLICABLE

- 2 INDICATE BRANCH CIRCUIT WIRE SIZE

DISCONNECT NAMEPLATE

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Seal / Signature



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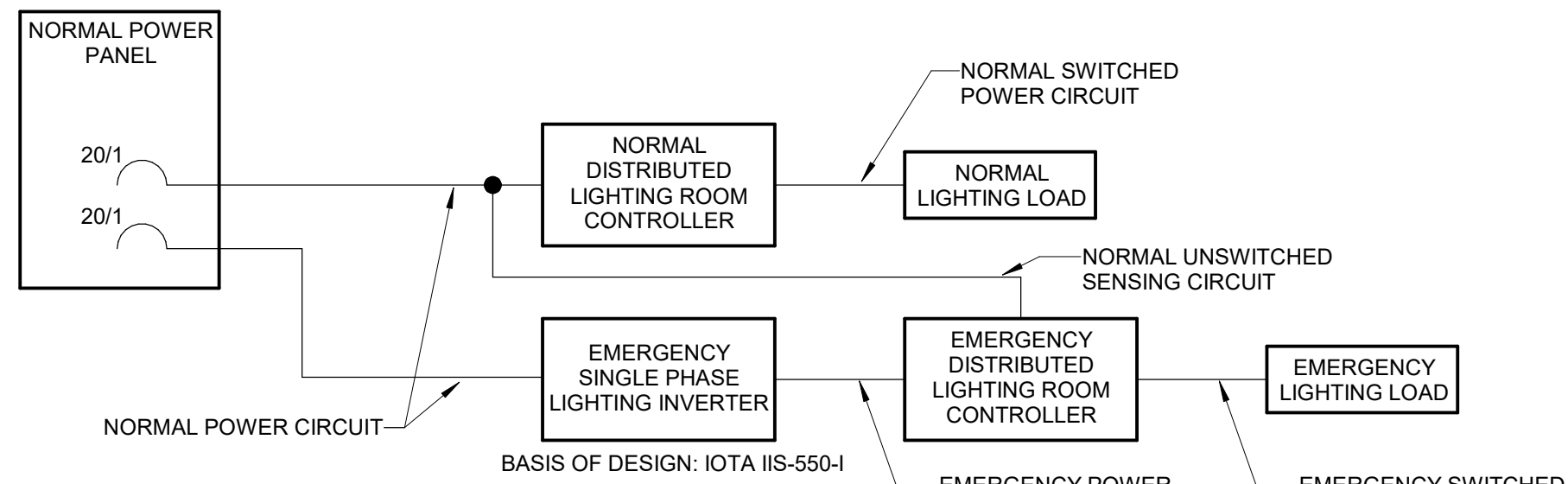
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GOLD WALK - ELECTRICAL DETAILS

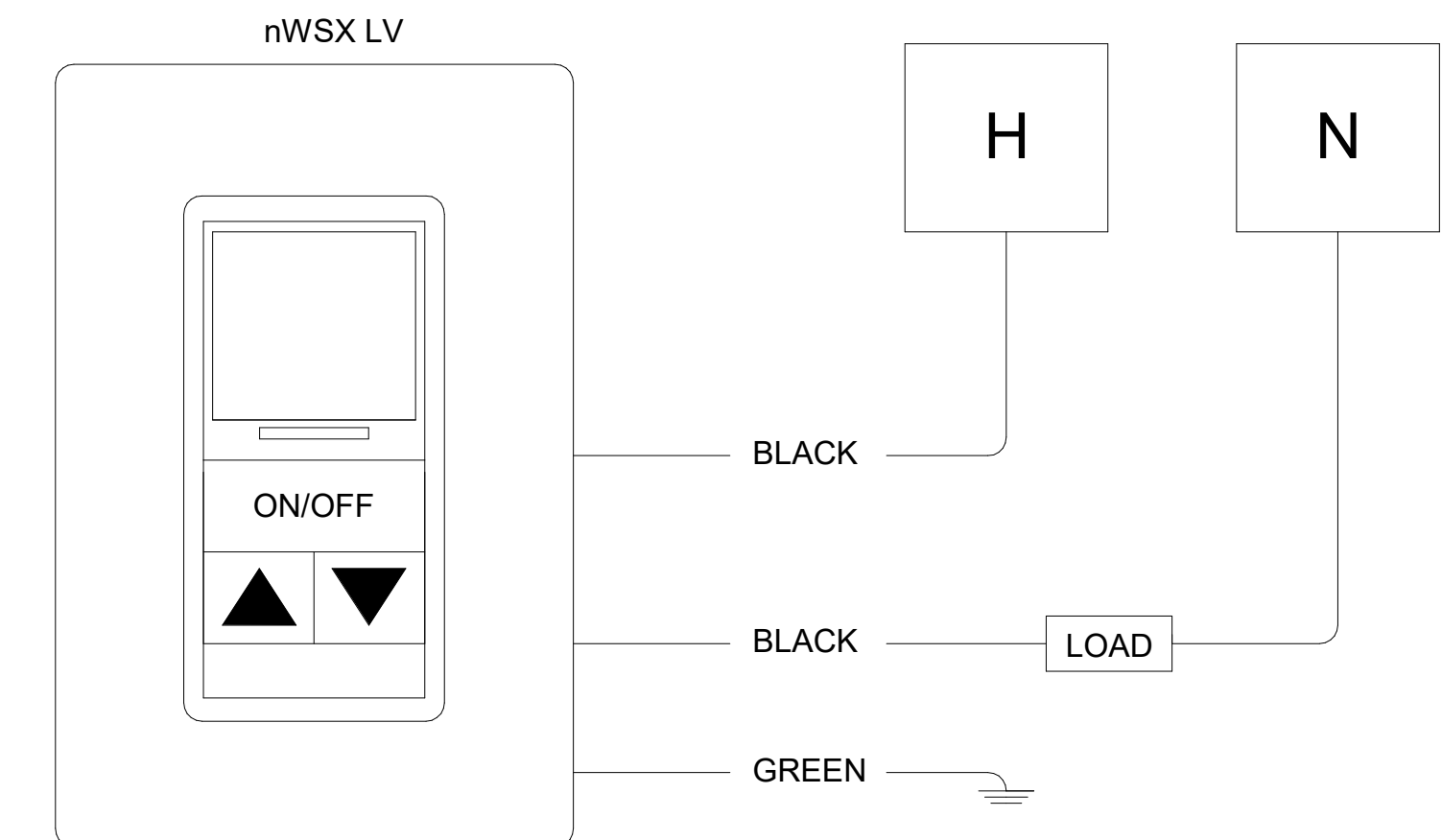
Scale

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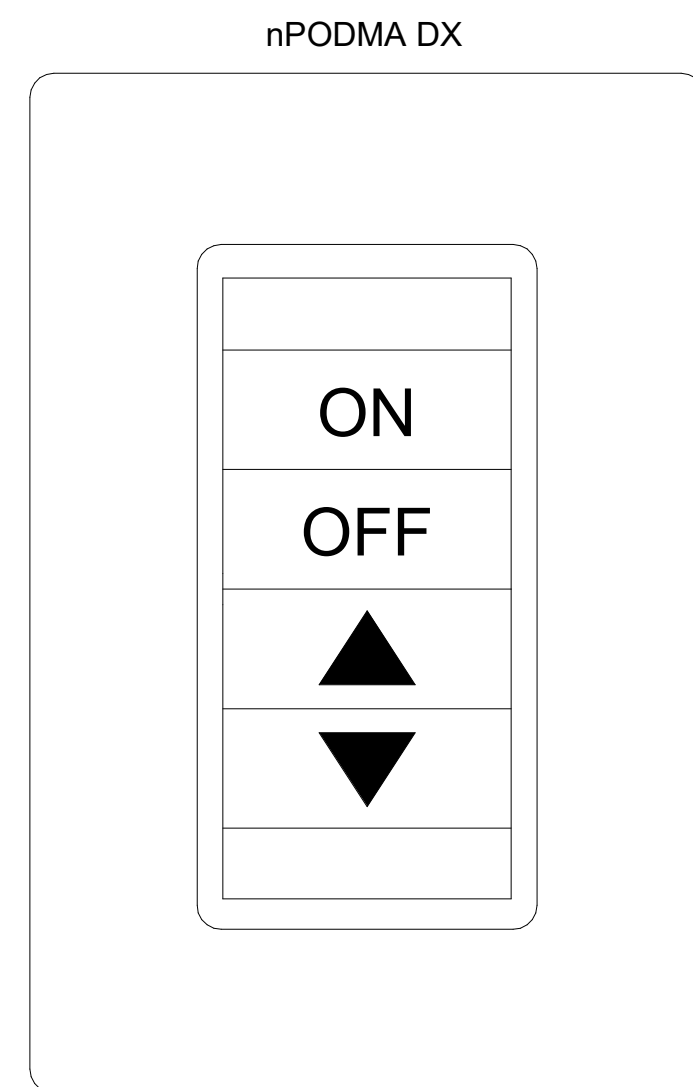
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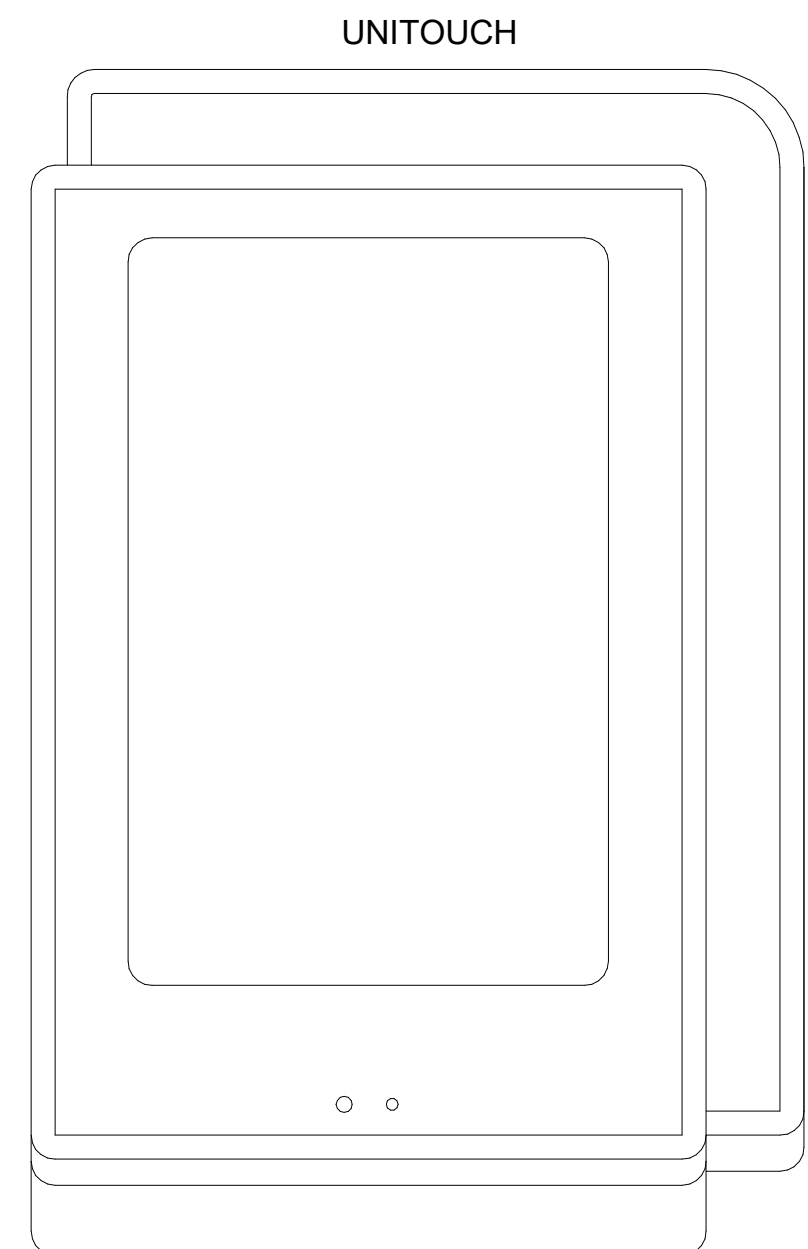
10 EMERGENCY LIGHTING INVERTER WIRING DIAGRAM
NO SCALE



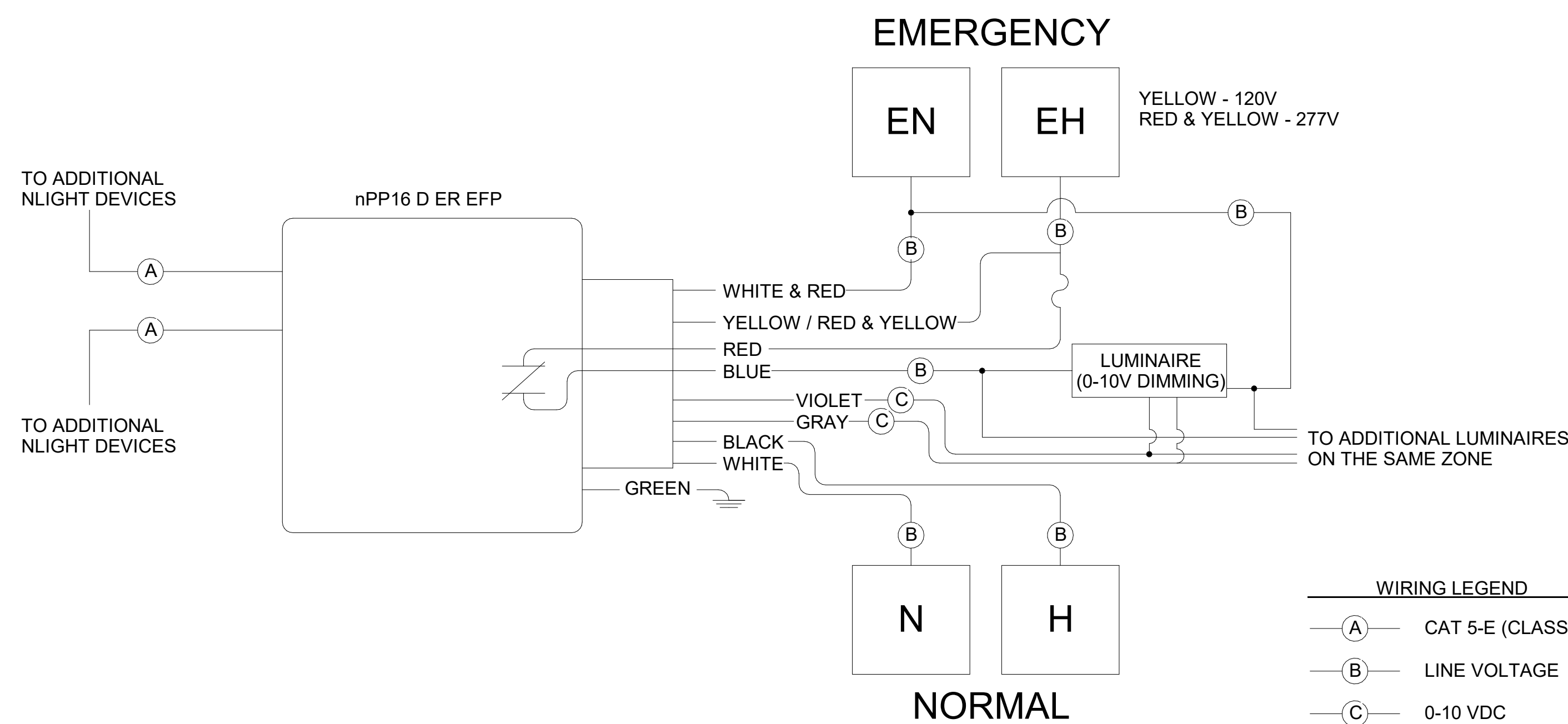
9 WALL SWITCH - 1 POLE, AUTO ON/OFF
NO SCALE



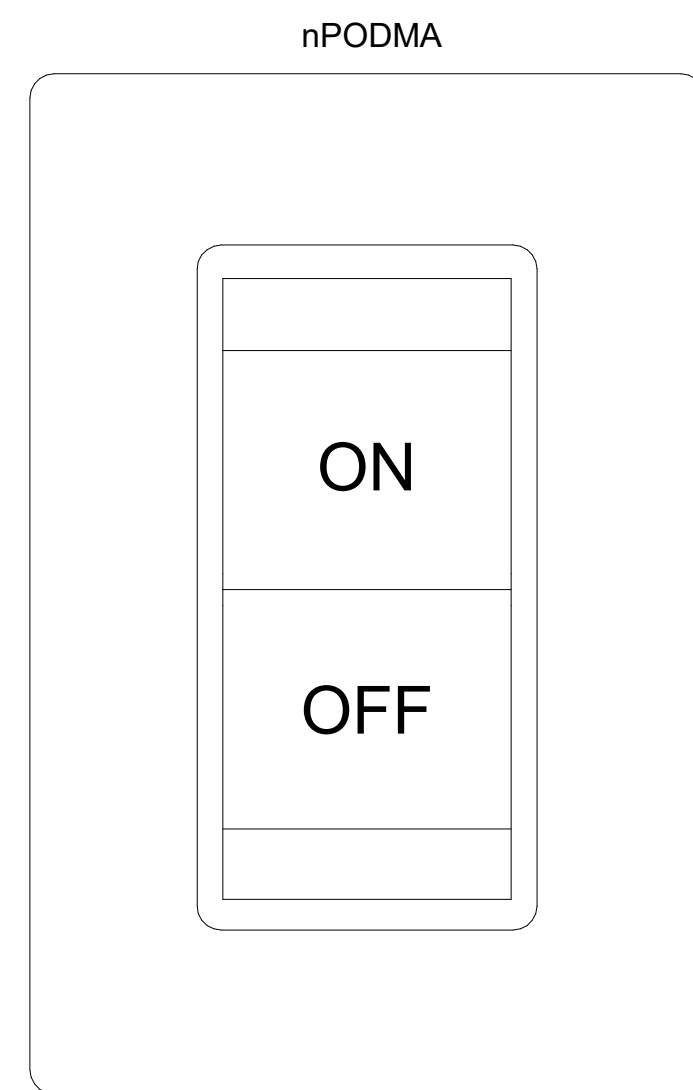
5 SINGLE ZONE DIMMER
NO SCALE



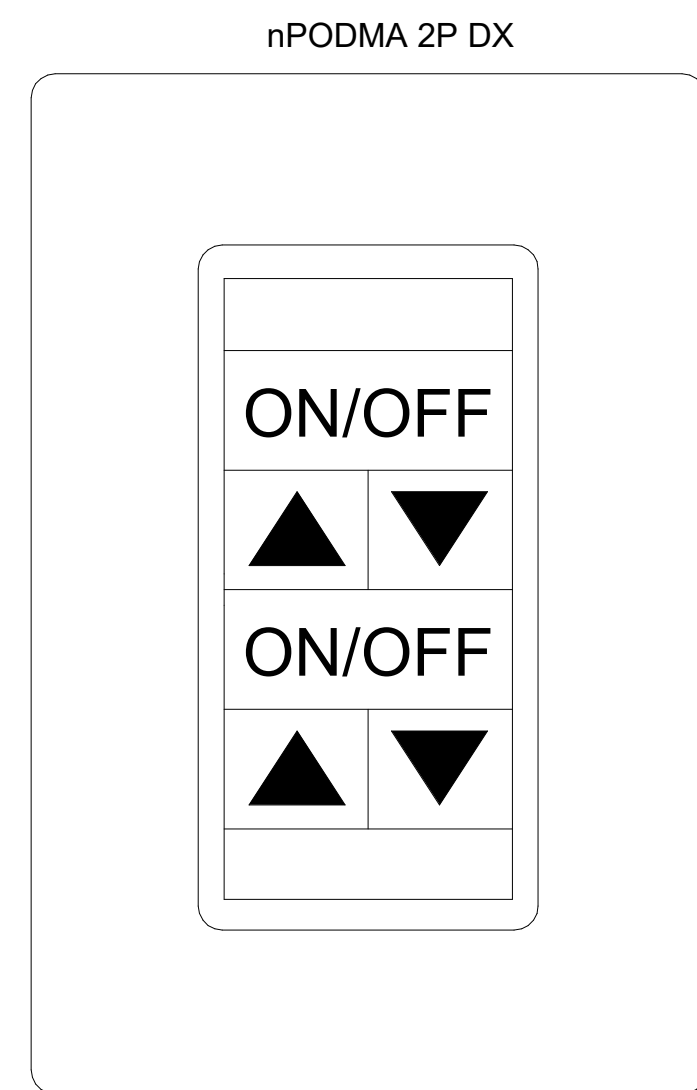
1 3.5" TOUCHSCREEN
NO SCALE



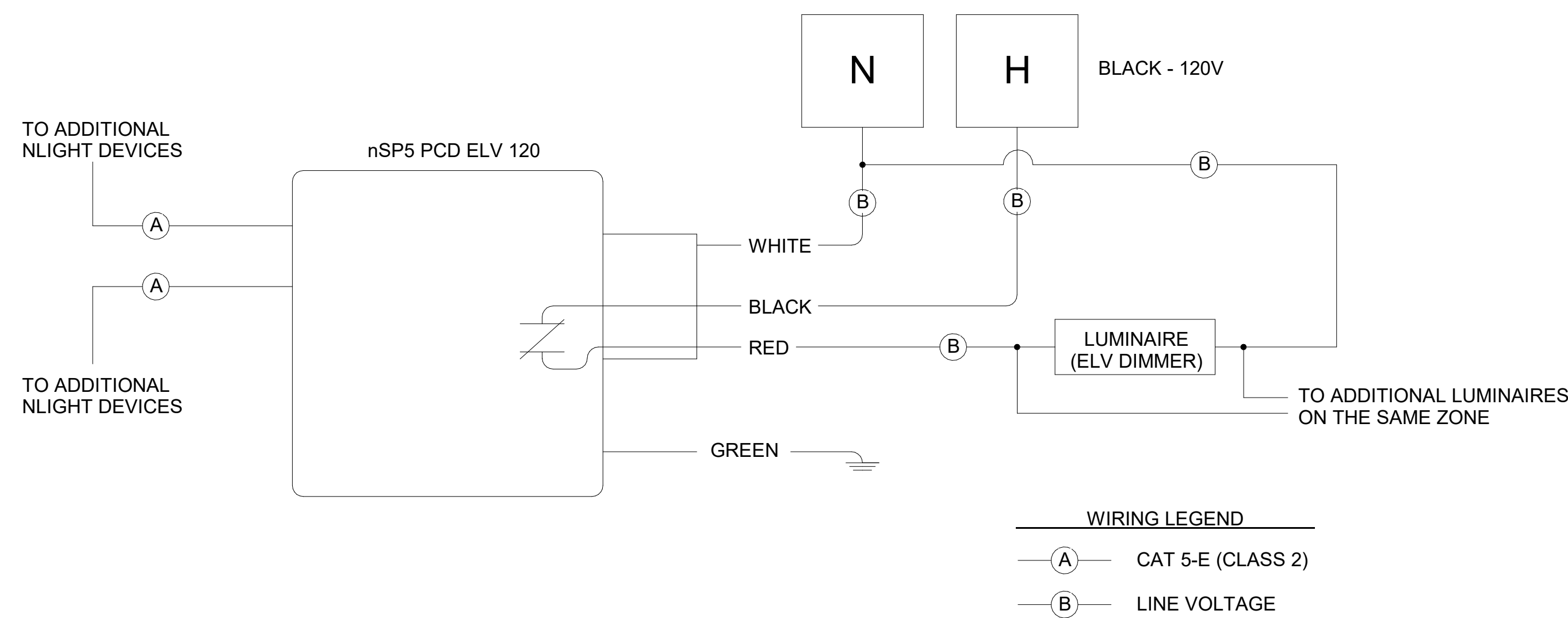
11 TYPICAL WIRING DIAGRAM: NPP16 D ER EFP
NO SCALE



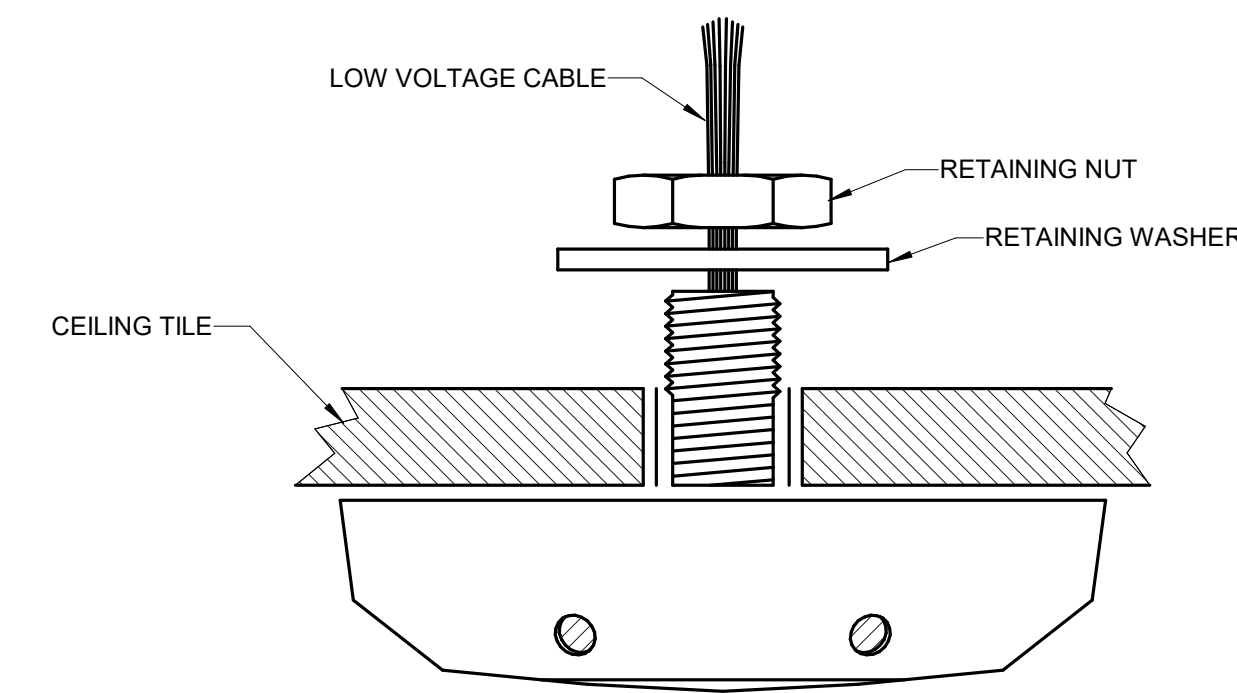
6 SINGLE ZONE SWITCH
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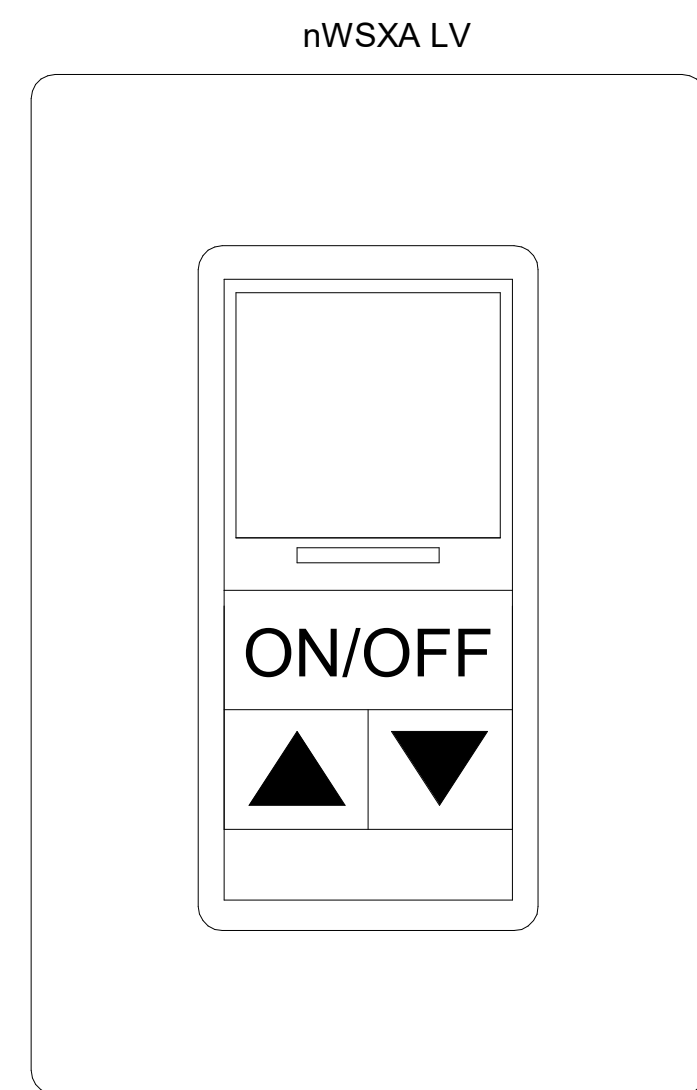
2 MULTI-ZONE DIMMER
NO SCALE



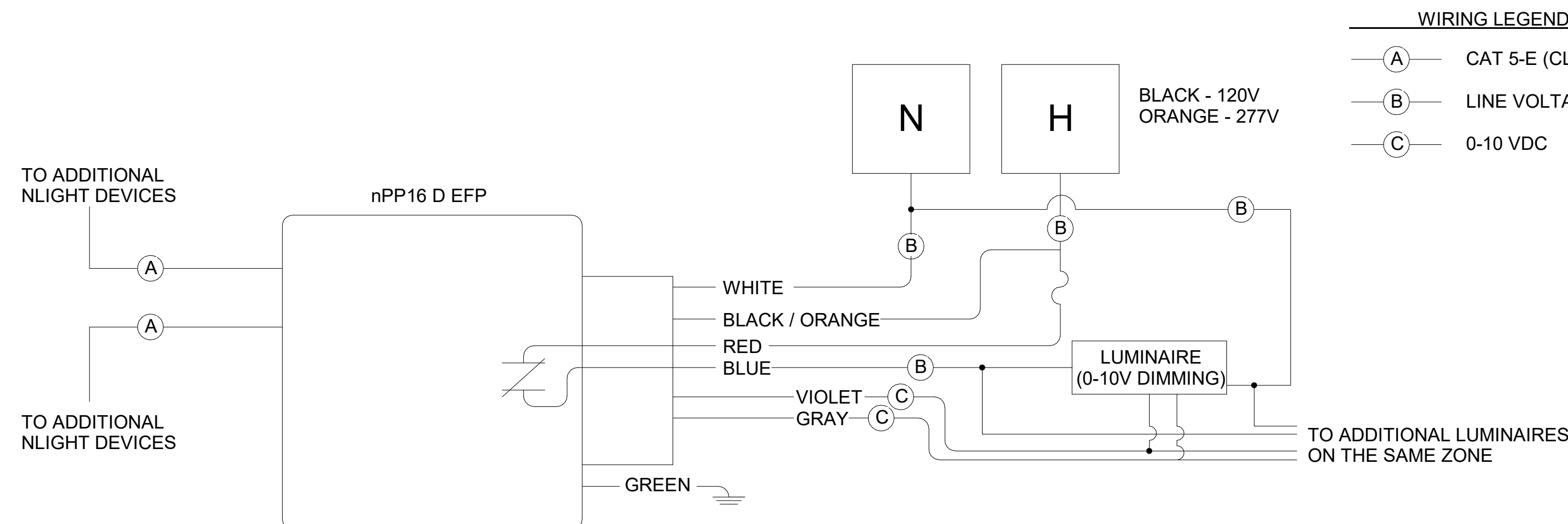
12 TYPICAL WIRING DIAGRAM: NSP5 PCD ELV 120
NO SCALE



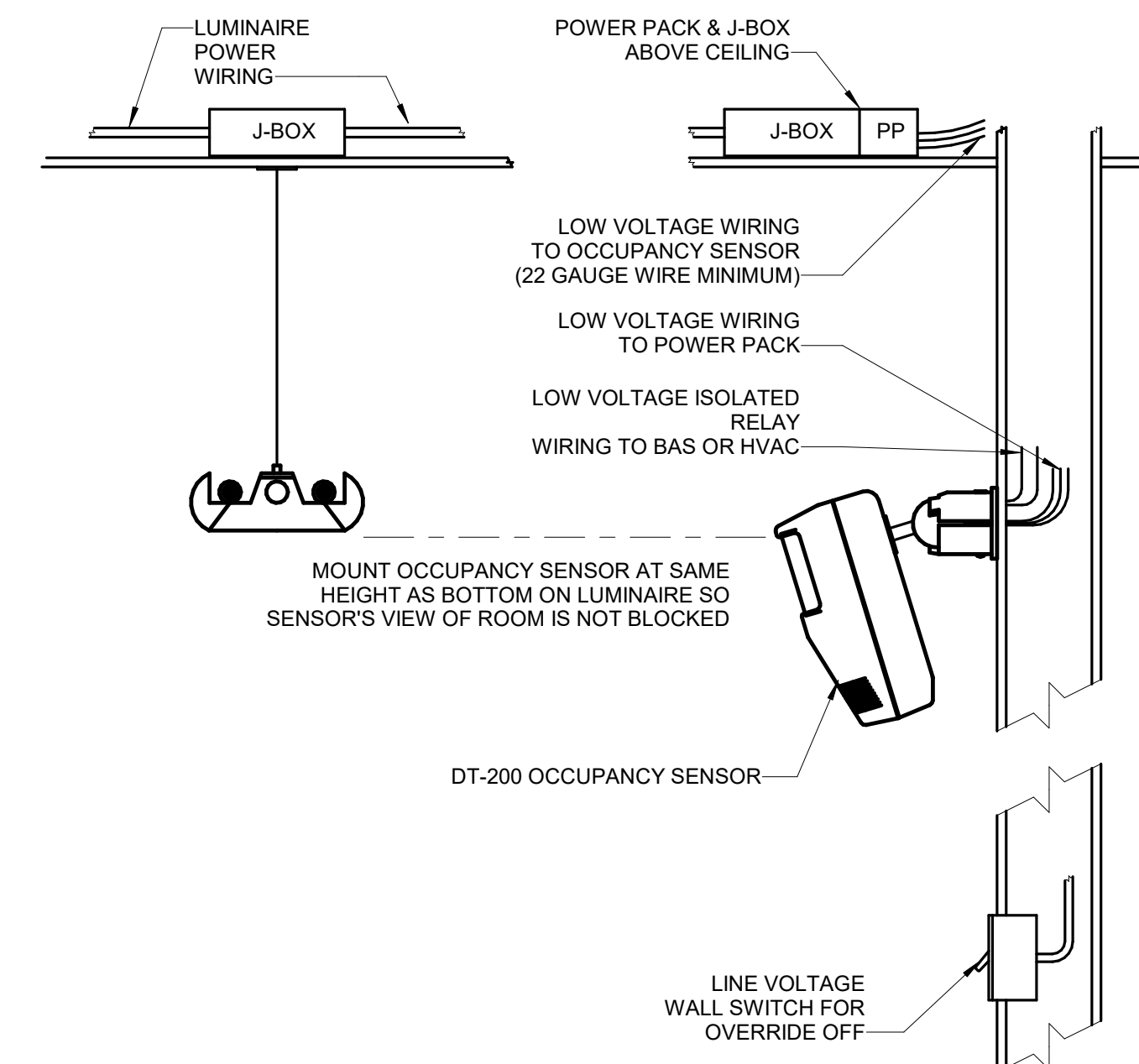
8 SENSOR - CEILING MOUNTED
NO SCALE



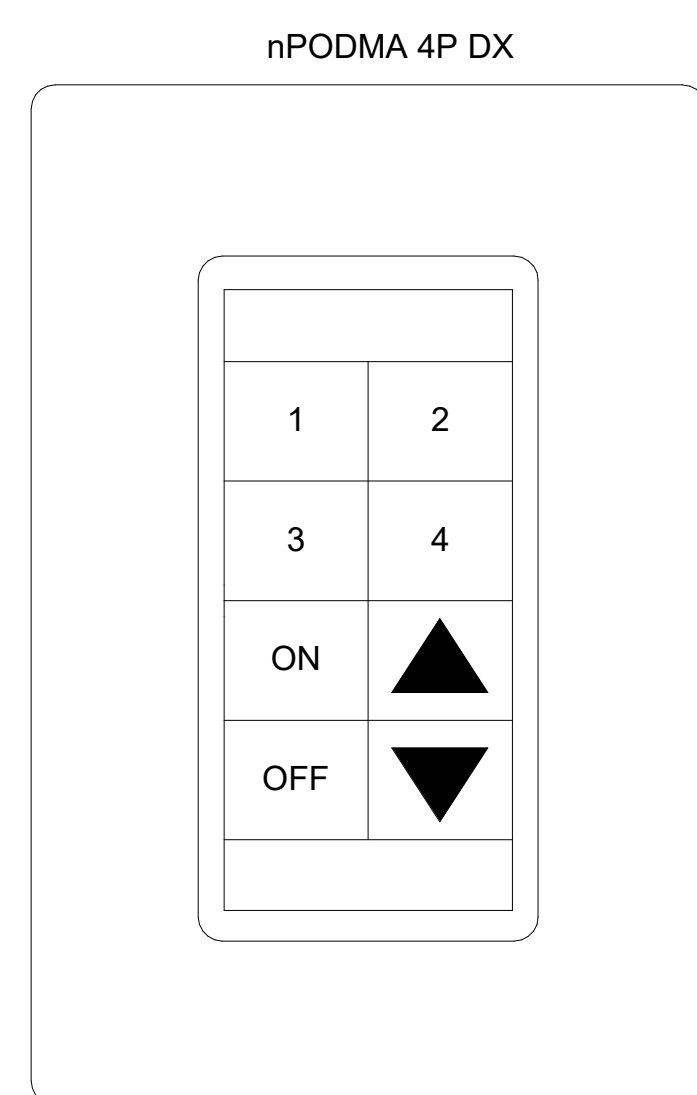
3 OCCUPANCY SENSOR & DIMMER
NO SCALE



13 TYPICAL WIRING DIAGRAM: NPP16 D EFP
NO SCALE



7 SENSOR - WALL MOUNTING
NO SCALE



4 SCENE SELECTOR & DIMMER
NO SCALE