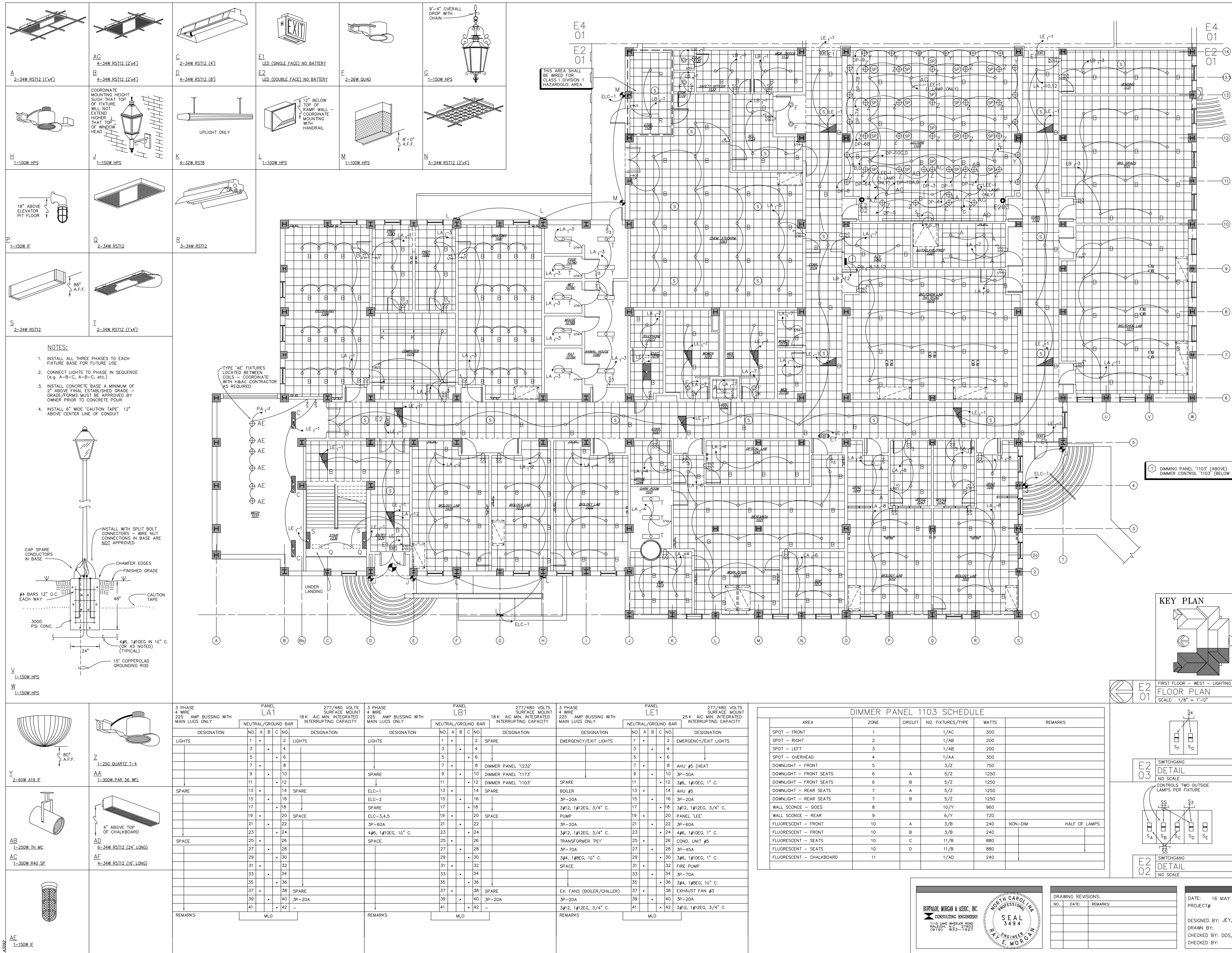
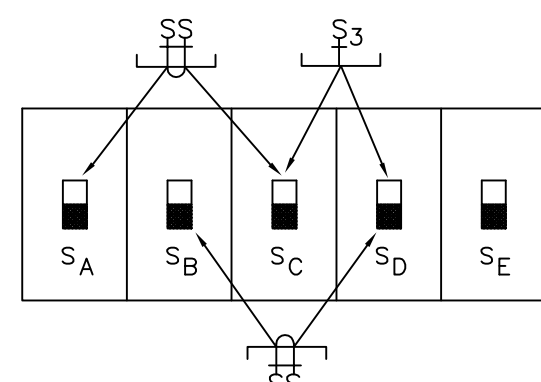


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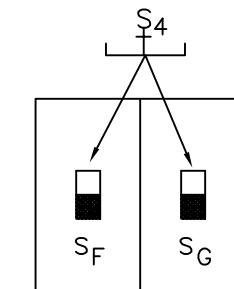




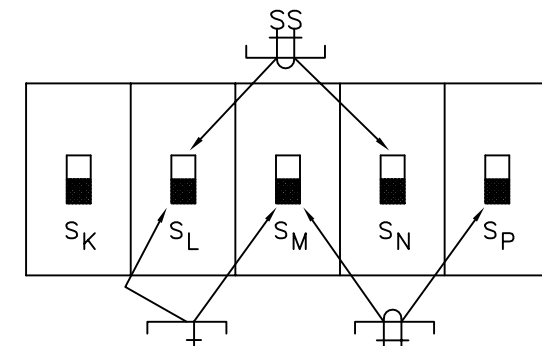
3 PHASE 4 WIRE 600 AMP BUSSING WITH 600 AMP MAIN BREAKER				PANEL PDA				120/208 VOLTS SURFACE MOUNT 25 K AIC MIN. INTEGRATED INTERRUPTING CAPACITY				3 PHASE 4 WIRE 225 AMP BUSSING WITH 150 AMP MAIN BREAKER				PANEL PE1				120/208 VOLTS SURFACE MOUNT 10 K AIC MIN. INTEGRATED INTERRUPTING CAPACITY			
NEUTRAL/GROUND BAR				NEUTRAL/GROUND BAR				NEUTRAL/GROUND BAR				NEUTRAL/GROUND BAR				NEUTRAL/GROUND BAR							
HT.	DESIGNATION	NO.		HT.	DESIGNATION	NO.		HT.	DESIGNATION	NO.	A	B	C	NO.	DESIGNATION	NO.							
4.5"	PANEL 'LLPT'	1		4.5"	PANEL 'LLPW'	2		4.5"	PANEL 'TEMPA'	1	*	*	*	2	PANEL 'ZEMPA'	3							
	3P-100A		3P-100A		3P-125A		3P-150A																
4.5"	4#3, 1#REG, 10" C.			4.5"	4#3, 1#REG, 10" C.			4.5"	4#1, 1#REG, 2" C.	5	*	*	*	6	4#1/0, 1#REG, 2" C.	7							
4.5"	PANEL 'LPLW'	3		4.5"	3P-100A	4		4.5"	SPACE	7	*	*	*	8	SPACE	9							
	4#3, 1#REG, 10" C.		4#3, 1#REG, 10" C.																				
4.5"	3P-100A			4.5"	PANEL 'LLPO'	6		4.5"		11	*	*	*	12		13							
	4#3, 1#REG, 10" C.																						
4.5"	PANEL 'LLPR'	5		4.5"	3P-100A	8		4.5"		15	*	*	*	16		17							
	3P-100A		4#3, 1#REG, 10" C.																				
4.5"	4#3, 1#REG, 10" C.			4.5"	PANEL 'LLPX'	7		4.5"		17	*	*	*	18		19							
4.5"	PANEL 'LPLM'	7		4.5"	3P-100A	10		4.5"		21	*	*	*	22		23							
	3P-125A		4#3, 1#REG, 10" C.																				
4.5"	4#1, 1#REG, 2" C.			4.5"	4#3, 1#REG, 10" C.	9		4.5"		23	*	*	*	24		25							
4.5"	PANEL 'PA1'	9		4.5"	PANEL '1LNF'	10		4.5"	ANIMAL CUBICLE	25	*	*	*	26	HW PUMP	27							
	3P-225A		4#4/0, 1#REG, 20" C.																				
4.5"	4#4/0, 1#REG, 20" C.			4.5"	PANEL '1232'	11		4.5"		27	*	*	*	28	GENERATOR	29							
4.5"	PANEL '1103'	11		4.5"	3P-100A	12		4.5"	SPACE	31	*	*	*	30	GENERATOR	33							
	3P-150A		4#3, 1#REG, 10" C.																				
4.5"	4#1/0, 1#REG, 2" C.			4.5"	SPACE	13		4.5"		33	*	*	*	34	EXHAUST FAN	35							
	3P-150A																						
4.5"	PANEL '1173'	13		4.5"	4#3, 1#REG, 10" C.	14		4.5"		37	*	*	*	36	SPACE	39							
	4#1/0, 1#REG, 2" C.																						
4.5"	3P-150A			4.5"		15		4.5"		39	*	*	*	40		41							
	4#1/0, 1#REG, 2" C.																						
4.5"	4#1/0, 1#REG, 2" C.			4.5"		16		4.5"		41	*	*	*	42		43							
REMARKS				MAIN BREAKER				REMARKS				MAIN BREAKER											
3 PHASE 4 WIRE 225 AMP BUSSING WITH MAIN LUGS ONLY				PANEL PA1 120/208 VOLTS SURFACE MOUNT 10 K AIC MIN. INTEGRATED INTERRUPTING CAPACITY				3 PHASE 4 WIRE 225 AMP BUSSING WITH MAIN LUGS ONLY				PANEL PE1 120/208 VOLTS SURFACE MOUNT 10 K AIC MIN. INTEGRATED INTERRUPTING CAPACITY											
MLO				MLO				MLO				MLO											



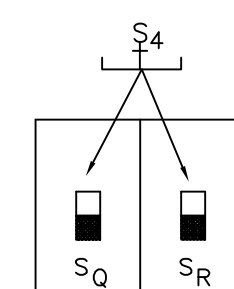
E4  
02  
SWITCHGEAR  
DETAIL  
NO SCALE



E4  
03  
SWITCHGEAR  
DETAIL  
NO SCALE

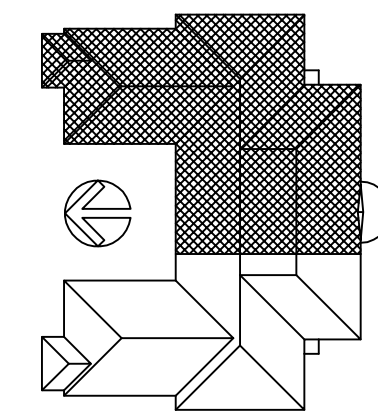


E4  
04  
SWITCHGEAR  
DETAIL  
NO SCALE



E4  
05  
SWITCHGEAR  
DETAIL  
NO SCALE

KEY PLAN



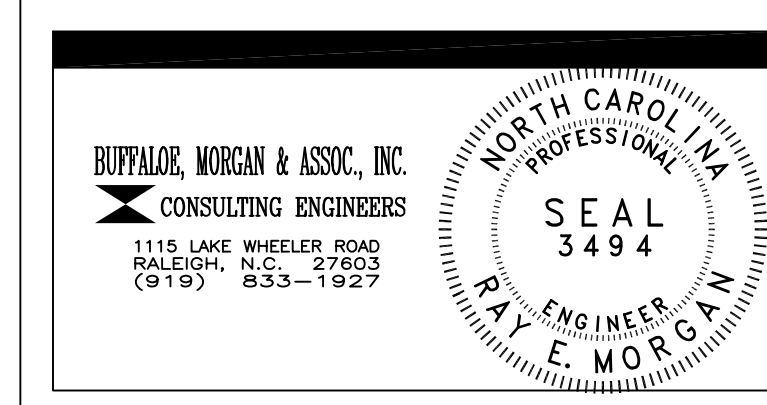
FIRST FLOOR - EAST - LIGHTING  
FLOOR PLAN  
SCALE: 1/8" = 1'-0"

E4  
01  
SWITCHGEAR  
DETAIL  
NO SCALE

- 1 DIMMER PANEL '1232' (ABOVE)  
2 DIMMER PANEL '1173' (BELOW)  
3 DIMMER CONTROL '1173'

E2  
01  
SWITCHGEAR  
DETAIL  
NO SCALE

E4  
01  
SWITCHGEAR  
DETAIL  
NO SCALE



DRAWING REVISIONS:		
NO.	DATE:	REMARKS:

DATE: 16 MAY 1994  
PROJECT#: 9305  
DESIGNED BY: J.EY, DDS  
DRAWN BY: SMC  
CHECKED BY: SAB  
CHECKED BY: REM



3 PHASE 4 WIRE 100 AMP BUSSING WITH MAIN LUGS ONLY		
PANEL LEE		
277/480 VOLTS SURFACE MOUNT 18 K AIC MIN. INTEGRATED INTERRUPTING CAPACITY		
DESIGNATION	NO.	DESIGNATION
LIGHTS	1	2
SPACE	3	4
	5	6
	7	8
	9	10
	11	12
	13	14
	15	16
	17	18
REMARKS	MLO	

3 PHASE 4 WIRE 225 AMP BUSSING WITH MAIN LUGS ONLY		
PANEL LC1		
277/480 VOLTS SURFACE MOUNT 18 K AIC MIN. INTEGRATED INTERRUPTING CAPACITY		
DESIGNATION	NO.	DESIGNATION
LIGHTS	1	2
SPACE	3	4
	5	6
	7	8
	9	10
	11	12
	13	14
	15	16
	17	18
	19	20
	21	22
	23	24
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	31	32
	33	34
	35	36
	37	38
	39	40
	41	42
REMARKS	MLO	

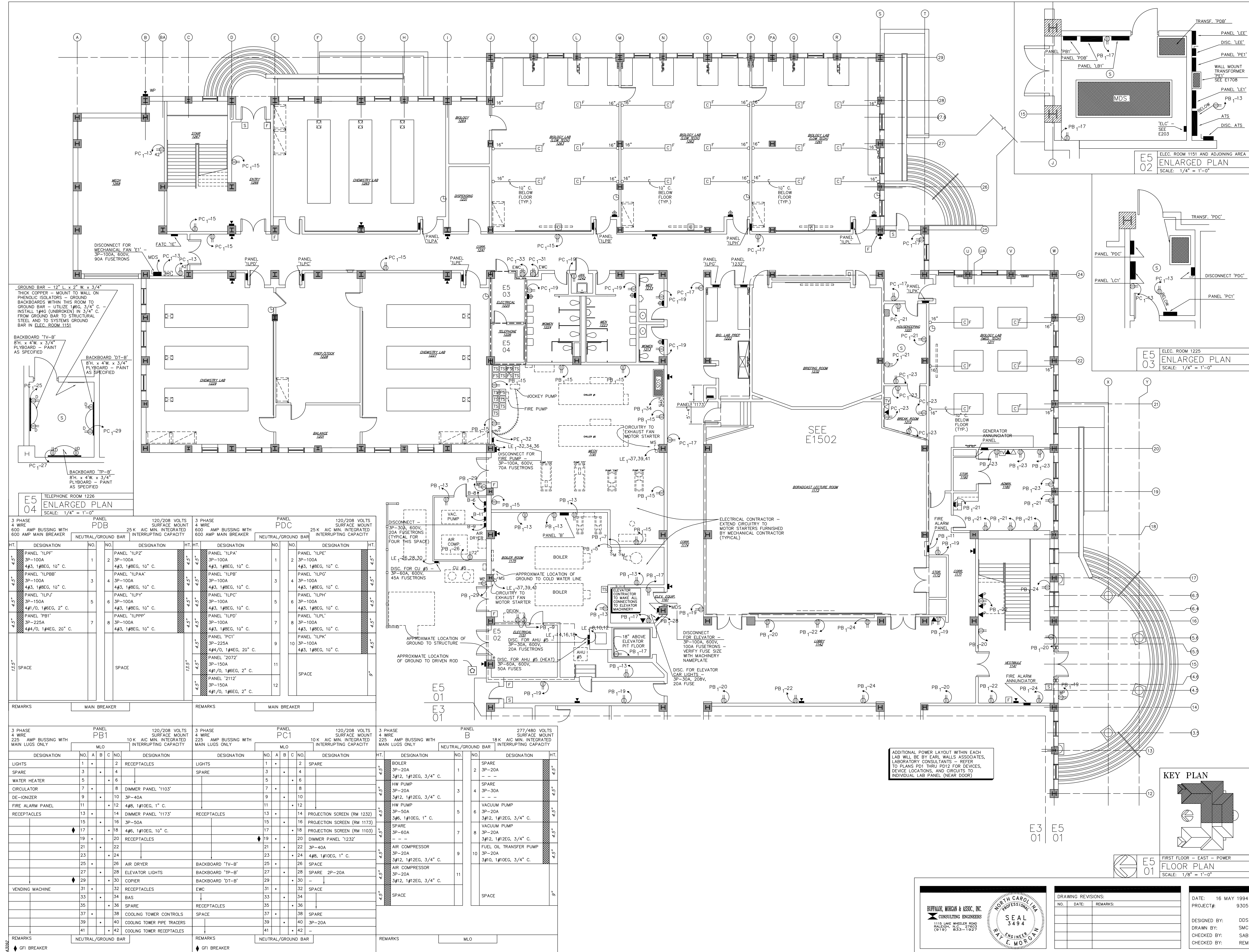
DIMMER PANEL 1173 SCHEDULE

AREA	ZONE	CIRCUIT	NO. FIXTURES/TYPE	WATTS	REMARKS
SPOT - FRONT	1		1/AC	300	
SPOT - RIGHT	2		1/AB	200	
SPOT - LEFT	3		1/AB	200	
SPOT - OVERHEAD	4		1/AA	300	
DOWNLIGHT - FRONT	5		6/Z	750	
DOWNLIGHT - FRONT SEATS	6	A	6/Z	1500	
DOWNLIGHT - FRONT SEATS	6	B	6/Z	1500	
DOWNLIGHT - REAR SEATS	7	A	6/Z	1500	
DOWNLIGHT - REAR SEATS	7	B	6/Z	1500	
DOWNLIGHT - REAR	8		5/Z	1250	
WALL SCONCE - SIDES	9		11/Y	1320	
WALL SCONCE - REAR	10		4/Y	480	
FLUORESCENT - FRONT	11	A	5/B	400	NON-DIM HALF OF LAMPS
FLUORESCENT - FRONT	11	B	5/B	400	
FLUORESCENT - SEATS	11	C	18/B	1440	
FLUORESCENT - SEATS	11	D	18/B	1440	
FLUORESCENT - CHALKBOARD	12		1/AD	240	

DIMMER PANEL 1232 SCHEDULE

AREA	ZONE	CIRCUIT	NO. FIXTURES/TYPE	WATTS	REMARKS
SPOT - FRONT	1		1/AC	300	
SPOT - RIGHT	2		1/AB	200	
SPOT - LEFT	3		1/AB	200	
SPOT - OVERHEAD	4		1/AA	300	
DOWNLIGHT - FRONT	5		2/Z	500	
DOWNLIGHT - FRONT SEATS	6		6/Z	1500	
DOWNLIGHT - REAR SEATS	7		6/Z	1500	
WALL SCONCE - SIDES	8		8/Y	960	
WALL SCONCE - REAR	9		6/Y	720	
FLUORESCENT - FRONT	10	A	3/B	240	NON-DIM HALF OF LAMPS
FLUORESCENT - FRONT	10	B	3/B	240	
FLUORESCENT - SEATS	10	C	6/B	480	
FLUORESCENT - SEATS	10	D	6/B	480	
FLUORESCENT - CHALKBOARD	11		1/AF	160	



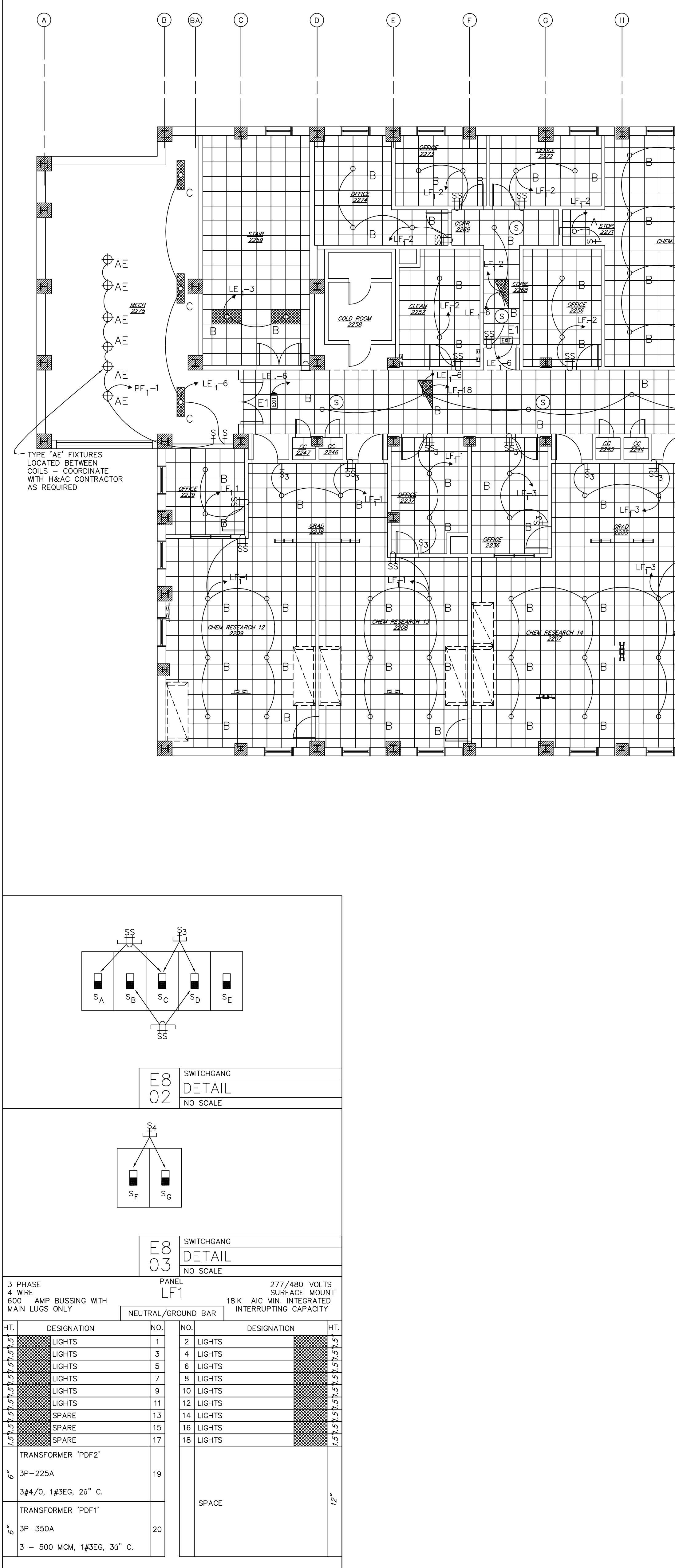
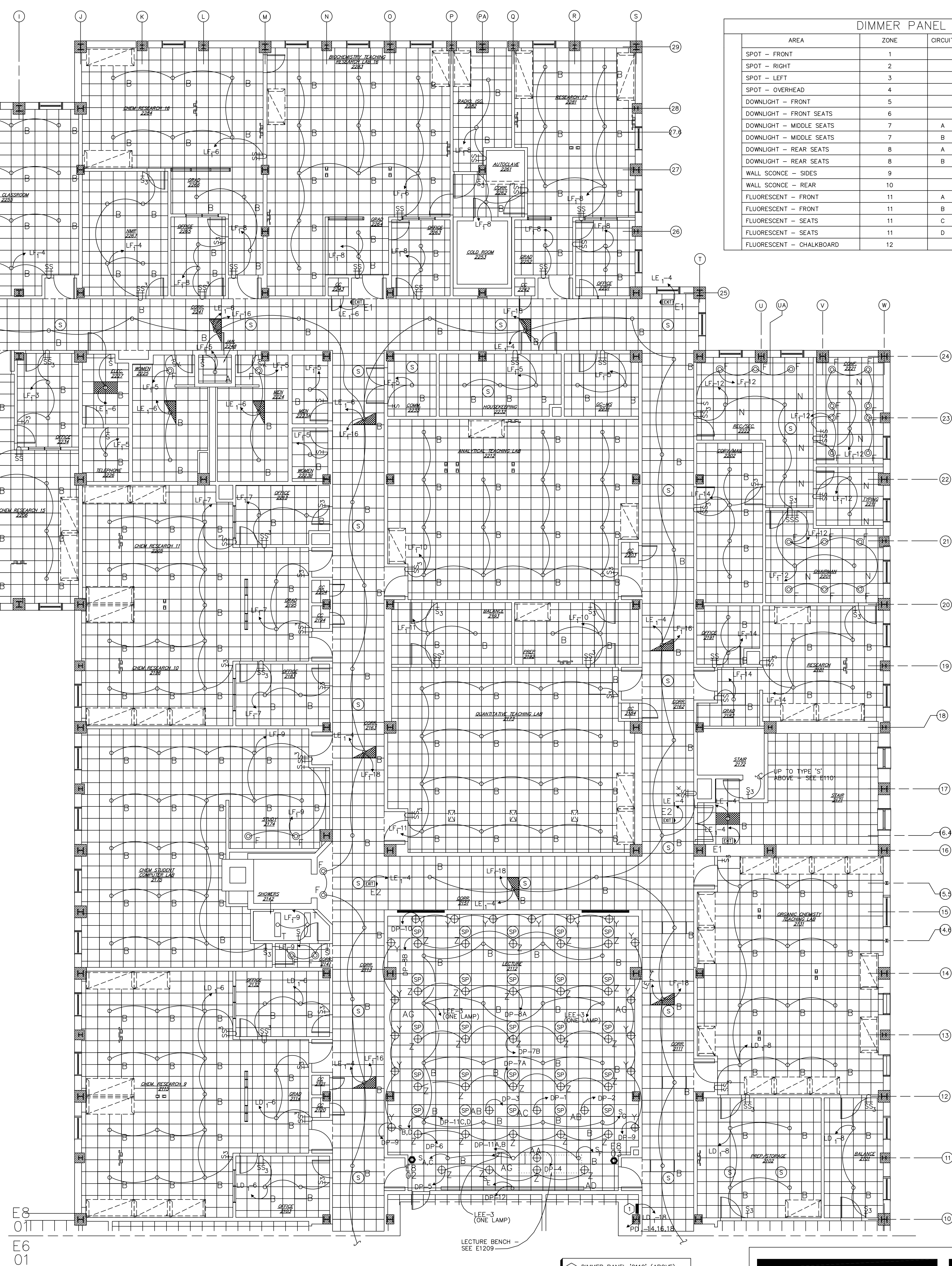


3 PHASE 4 WIRE 600 AMP BUSSING WITH MAIN LUGS ONLY		PANEL LD1		277/480 VOLTS SURFACE MOUNT 18 K - AIC MIN. INTEGRATED INTERRUPTING CAPACITY	
HT.	DESIGNATION	NO.	NO.	DESIGNATION	HT.
1	LIGHTS	1	2	LIGHTS	1
2	LIGHTS	3	4	LIGHTS	2
3	LIGHTS	5	6	LIGHTS	3
4	LIGHTS	7	8	LIGHTS	4
5	LIGHTS	9	10	SPARE	5
6	LIGHTS	11	12	SPARE	6
7	LIGHTS	13	14	SPARE	7
8	LIGHTS	15	16	DIMMER PANEL '2072'	8
9	LIGHTS	17	18	DIMMER PANEL '2112'	9
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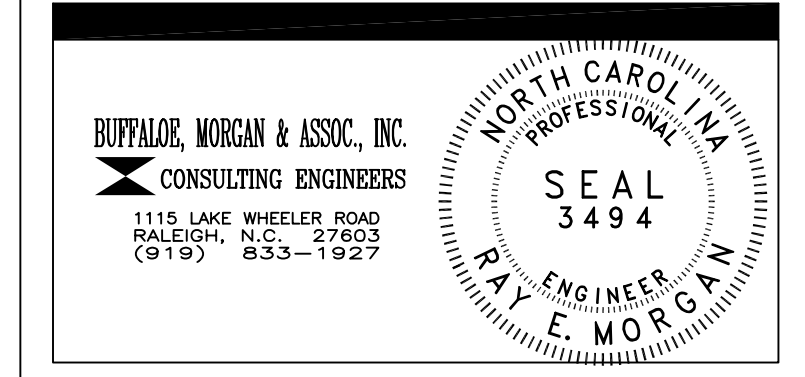


DIMMER PANEL 2112 SCHEDULE					
AREA	ZONE	CIRCUIT	NO. FIXTURES/TYPE	WATTS	REMARKS
SPOT - FRONT	1		1/AC	300	
SPOT - RIGHT	2		1/AB	200	
SPOT - LEFT	3		1/AB	200	
SPOT - OVERHEAD	4		1/AA	300	
DOWNLIGHT - FRONT	5		3/Z	750	
DOWNLIGHT - FRONT SEATS	6		5/Z	1250	
DOWNLIGHT - MIDDLE SEATS	7	A	5/Z	1250	
DOWNLIGHT - MIDDLE SEATS	7	B	5/Z	1250	
DOWNLIGHT - REAR SEATS	8	A	5/Z	1250	
DOWNLIGHT - REAR SEATS	8	B	5/Z	1250	
WALL SCONCE - SIDES	9		10/Y	1200	
WALL SCONCE - REAR	10		6/Y	720	
FLUORESCENT - FRONT	11	A	3/B	240	NON-DIM HALF OF LAMPS
FLUORESCENT - FRONT	11	B	3/B	240	
FLUORESCENT - SEATS	11	C	16/B	1280	
FLUORESCENT - SEATS	11	D	16/B	1280	
FLUORESCENT - CHALKBOARD	12		1/AD	240	



KEY PLAN  
SECOND FLOOR EAST - LIGHTING  
FLOOR PLAN  
SCALE: 1/8" = 1'-0"

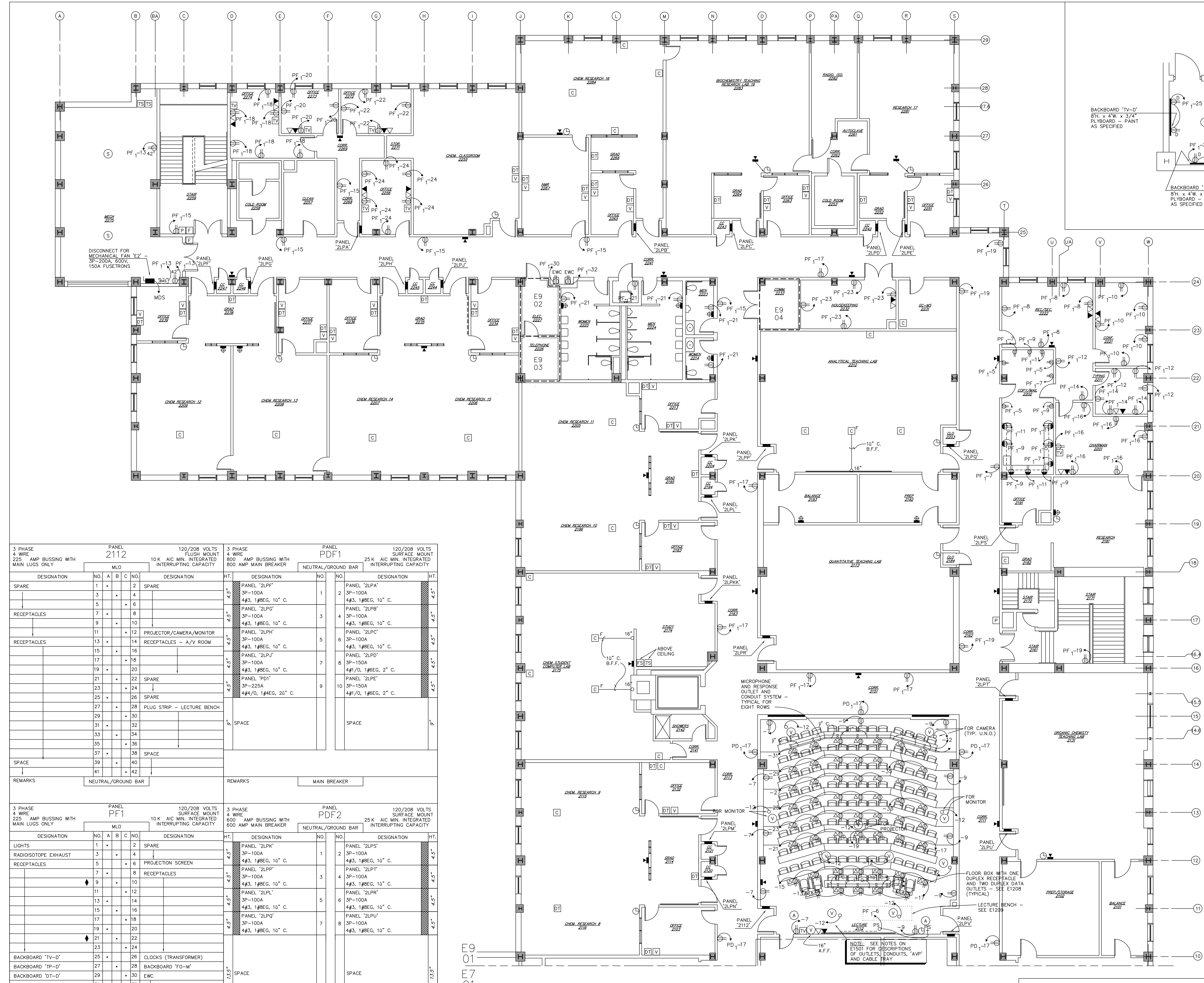
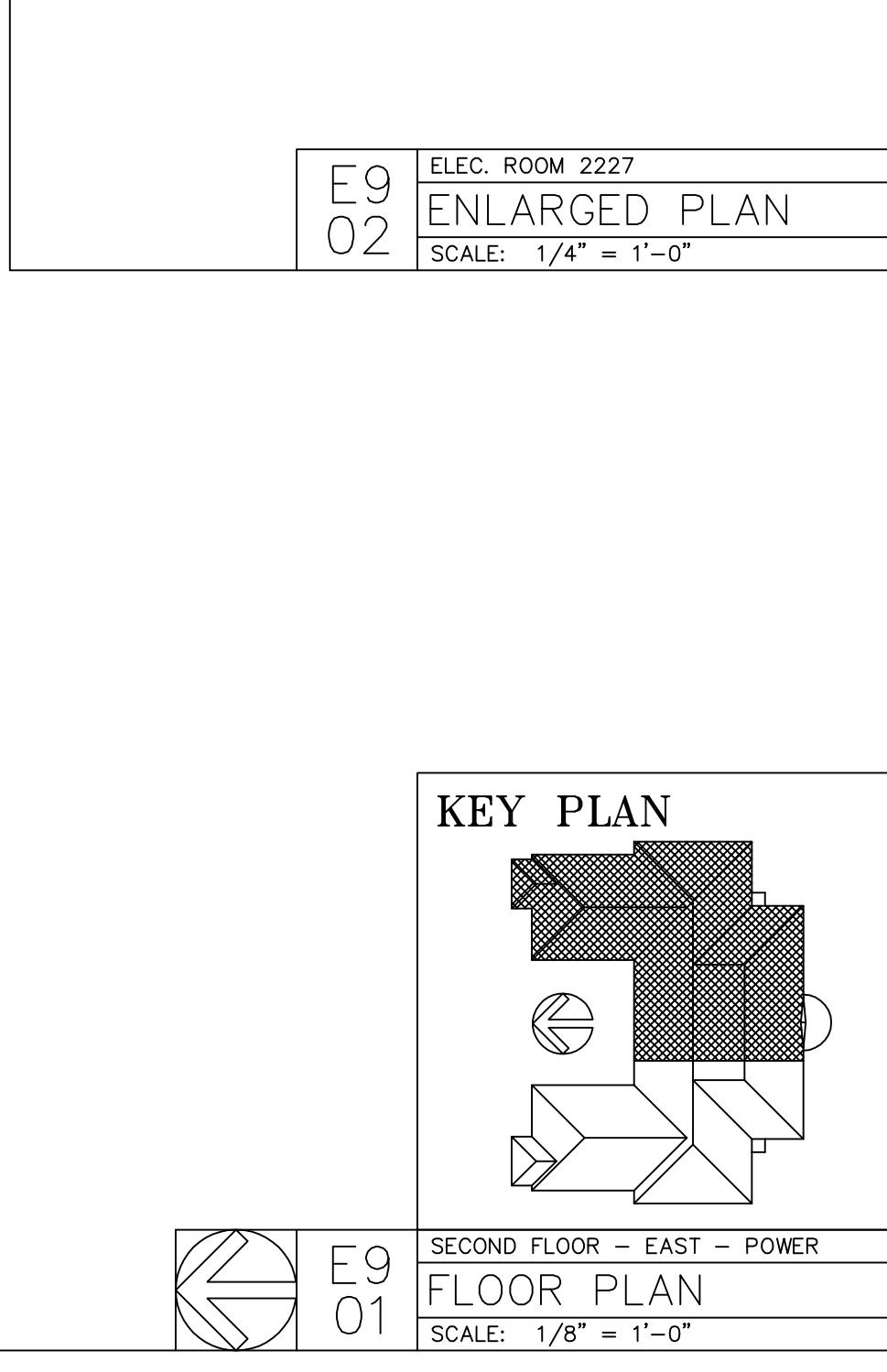
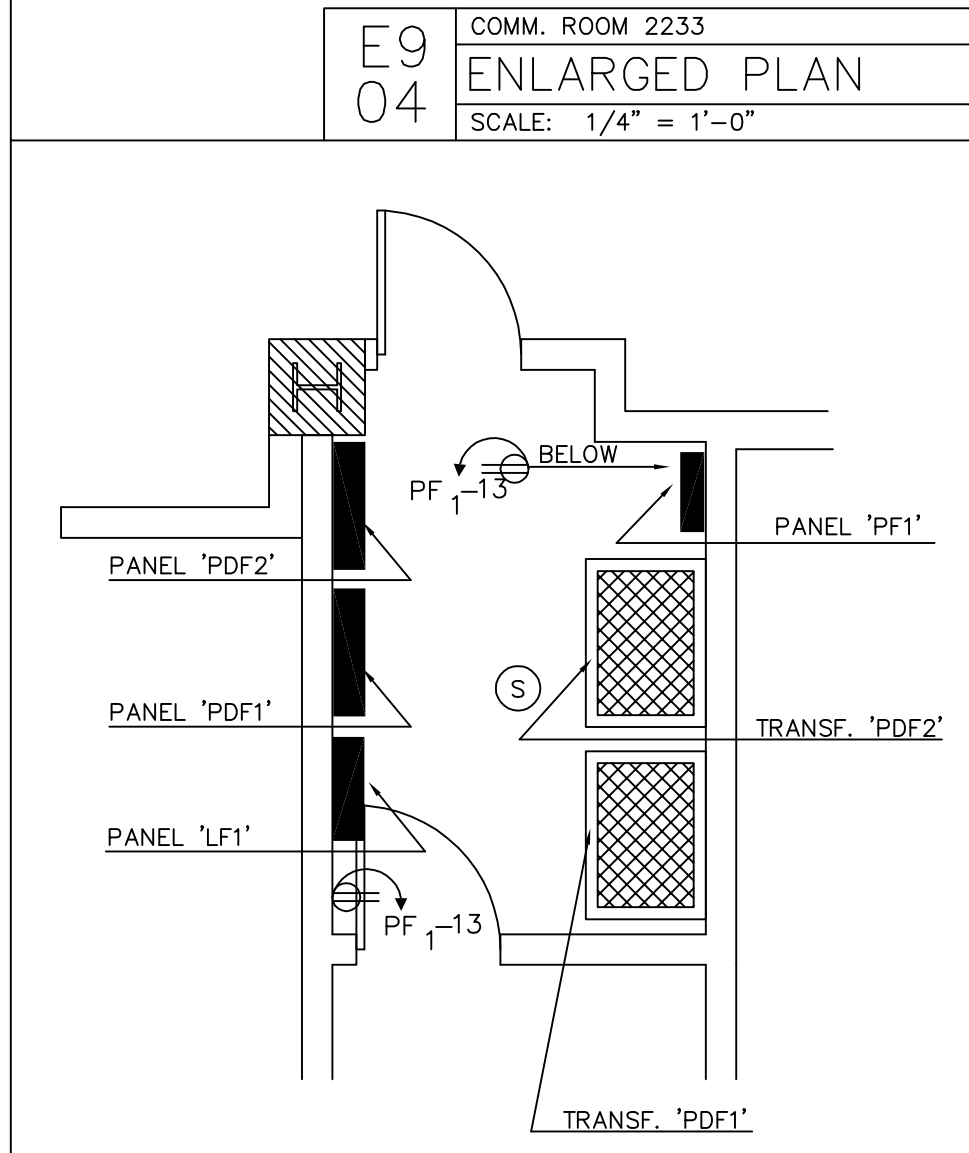
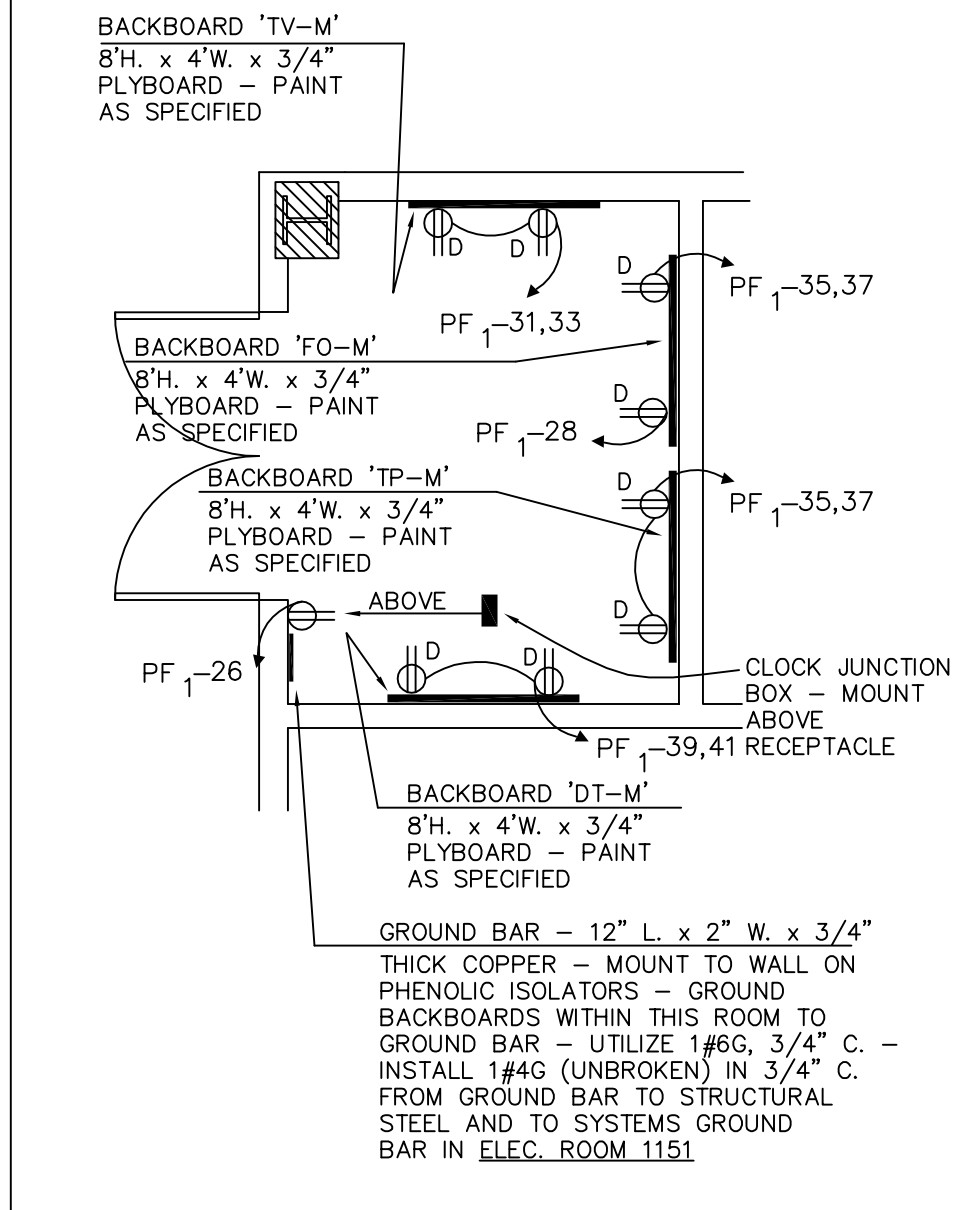
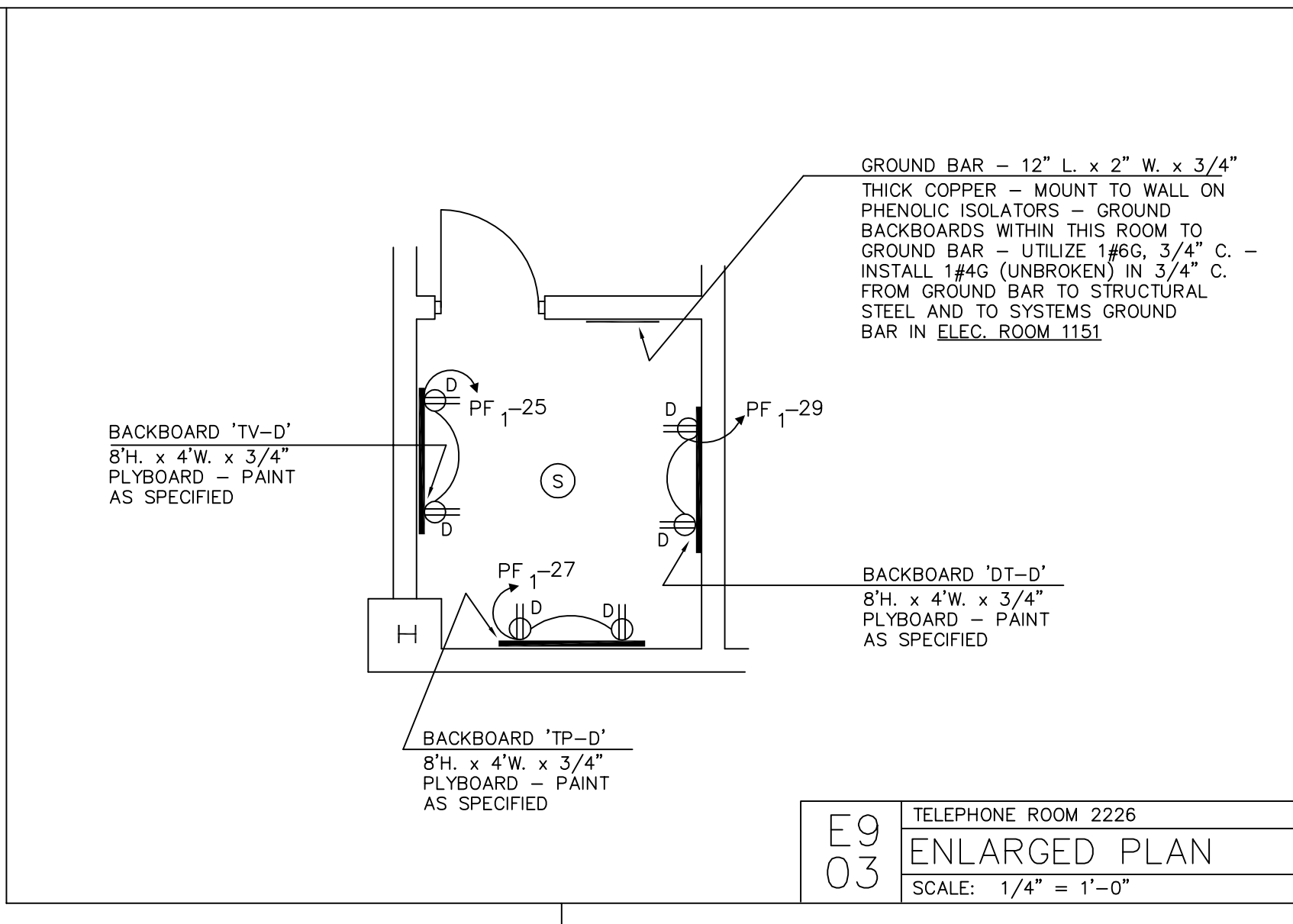
1 DIMMER PANEL "2112" (ABOVE)  
DIMMER CONTROL "2112" (BELOW)



DRAWING REVISIONS:		
NO.	DATE:	REMARKS:

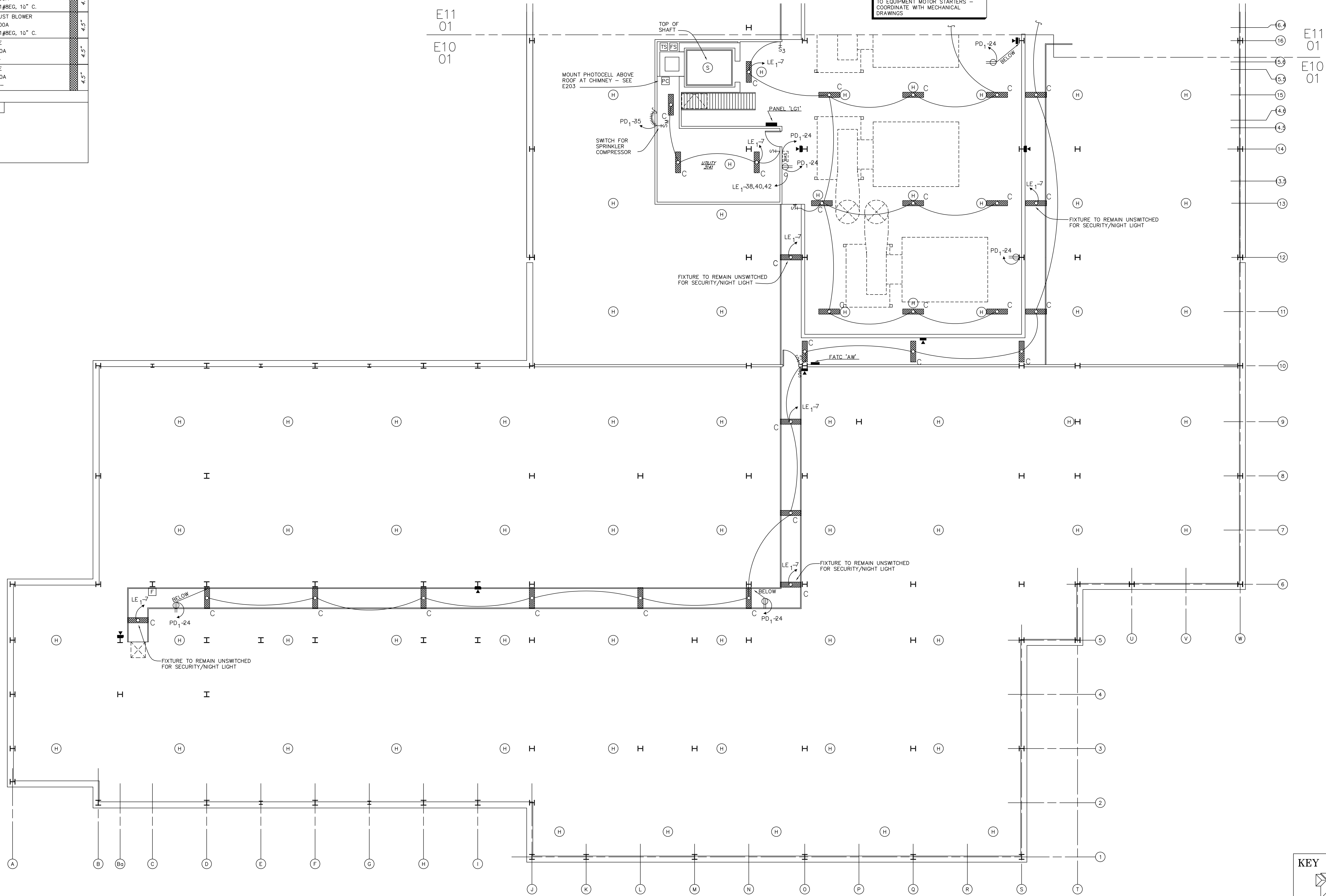
DATE: 16 MAY 1994
PROJECT#: 9305
DESIGNED BY: JEY, SAB
DRAWN BY: SMC
CHECKED BY: DDS, SAB
CHECKED BY: REM



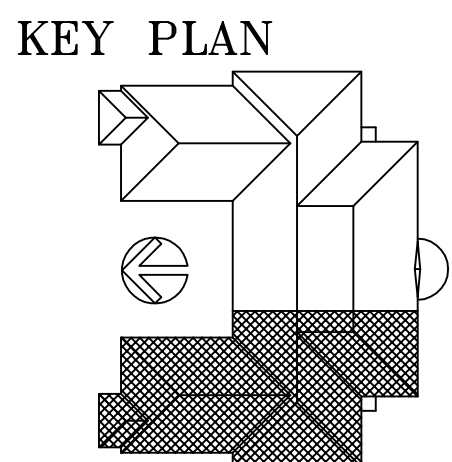


3 PHASE 4 WIRE 225 AMP BUSSING WITH MAIN LUGS ONLY				PANEL PF1 120/208 VOLTS SURFACE MOUNT 10K AIC MIN. INTEGRATED INTERRUPTING CAPACITY				3 PHASE 4 WIRE 800 AMP BUSSING WITH 600 AMP MAIN BREAKER				PANEL PDF2 120/208 VOLTS SURFACE MOUNT 25K AIC MIN. INTEGRATED INTERRUPTING CAPACITY			
DESIGNATION				DESIGNATION				DESIGNATION				DESIGNATION			
SPARE	1	2	3	SPARE	4	5	6	PANEL "2LPK"	1	2	3	PANEL "2LPA"	1	2	3
RADIOISOTOPE EXHAUST	7	8	9	PROJECTION SCREEN	10	11	12	PANEL "2LPB"	4	5	6	PANEL "2LPB"	4	5	6
RECEPTACLES	13	14	15	RECEPTACLES	16	17	18	PANEL "2LPH"	7	8	9	PANEL "2LPH"	7	8	9
	19	20	21		22	23	24	PANEL "2LPJ"	10	11	12	PANEL "2LPJ"	10	11	12
	25	26	27		28	29	30	PANEL "2LPK"	13	14	15	PANEL "2LPK"	13	14	15
	31	32	33		34	35	36	PANEL "2LPD"	16	17	18	PANEL "2LPD"	16	17	18
	37	38	39		40	41	42	PANEL "2LPE"	19	20	21	PANEL "2LPE"	19	20	21
	43	44	45		46	47	48	PANEL "2LPI"	22	23	24	PANEL "2LPI"	22	23	24
	49	50	51		52	53	54	PANEL "2LPJ"	25	26	27	PANEL "2LPJ"	25	26	27
	55	56	57		58	59	60	PANEL "2LPK"	28	29	30	PANEL "2LPK"	28	29	30
	61	62	63		64	65	66	PANEL "2LPD"	31	32	33	PANEL "2LPD"	31	32	33
	67	68	69		70	71	72	PANEL "2LPE"	34	35	36	PANEL "2LPE"	34	35	36
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	79	80	81		82	83	84	PANEL "2LPJ"	40	41	42	PANEL "2LPJ"	40	41	42
	85	86	87		88	89	90	PANEL "2LPK"	43	44	45	PANEL "2LPK"	43	44	45
	91	92	93		94	95	96	PANEL "2LPD"	46	47	48	PANEL "2LPD"	46	47	48
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	535	536	537		538	539	540	PANEL "2LPK"	268	269	270	PANEL "2LPK"	268	269	270
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	565	566	567		568	569	570	PANEL "2LPK"	283	284	285	PANEL "2LPK"	283	284	285
	571	572	573		574	575	576	PANEL "2LPD"	286	287	288	PANEL "2LPD"	286	287	288
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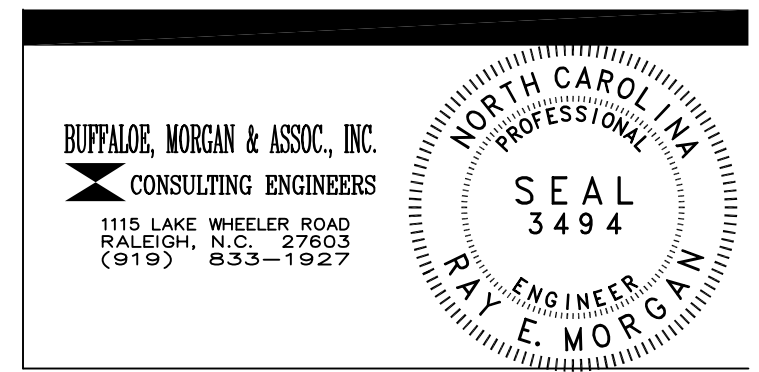
3 PHASE 4 WIRE 400 AMP BUSSING WITH MAIN LUGS ONLY		PANEL LG1 NEUTRAL/GROUND BAR		277/480 VOLTS SURFACE MOUNT 25 K - AIC MIN. INTEGRATED INTERRUPTING CAPACITY	
HT.	DESIGNATION	NO.	NO.	DESIGNATION	HT.
4.5"	PUMP 3P-20A 3#12, 1#12EG, 3/4" C.	1	2	PUMP 3P-20A 3#12, 1#12EG, 3/4" C.	4.5"
4.5"	PUMP 3P-20A 3#12, 1#12EG, 3/4" C.	3	4	PUMP 3P-20A 3#12, 1#12EG, 3/4" C.	4.5"
4.5"	EXHAUST BLOWER 3P-20A 3#12, 1#12EG, 3/4" C.	5	6	EXHAUST BLOWER 3P-100A 3#3, 1#8EG, 10" C.	4.5"
4.5"	EXHAUST BLOWER 3P-100A 3#3, 1#8EG, 10" C.	7	8	EXHAUST BLOWER 3P-100A 3#3, 1#8EG, 10" C.	4.5"
4.5"	EXHAUST BLOWER 3P-100A 3#3, 1#8EG, 10" C.	9	10	SPARE 3P-20A - - -	4.5"
4.5"	SPACE		12	SPARE 3P-20A - - -	4.5"
REMARKS					
MLO					



NOTE: ELECTRICAL CONTRACTOR:  
EXTEND CIRCUITRY FROM PANEL 'LG1'  
TO EQUIPMENT MOTOR STARTERS -  
COORDINATE WITH MECHANICAL  
DRAWINGS



E10  
01  
FLOOR PLAN  
SCALE: 1/8" = 1'-0"



DRAWING REVISIONS:		
NO.	DATE:	REMARKS:

DATE: 16 MAY 1994  
PROJECT#: 9305  
DESIGNED BY: SAB  
DRAWN BY: SMC  
CHECKED BY: SAB  
CHECKED BY: REM

**JEFFERIES AND FARIS  
ASSOCIATES**  
ARCHITECTS • PLANNERS  
SEA TOWERS, SUITE 201  
2002 EASTWOOD ROAD  
WILMINGTON, N.C. 28403  
TEL: 910.256.6633  
FAX: 910.256.9088

SCIENCE BUILDING  
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON  
CODE 49388 ITEM 301 ID#6089280301A

SHEET TITLE:

ATTIC FLOOR PLAN - WEST  
LIGHTING AND POWER

SHEET NO.:

E10

OF 17





JEFFRIES AND FARIS  
ASSOCIATES  
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SEA TOWERS, SUITE 201  
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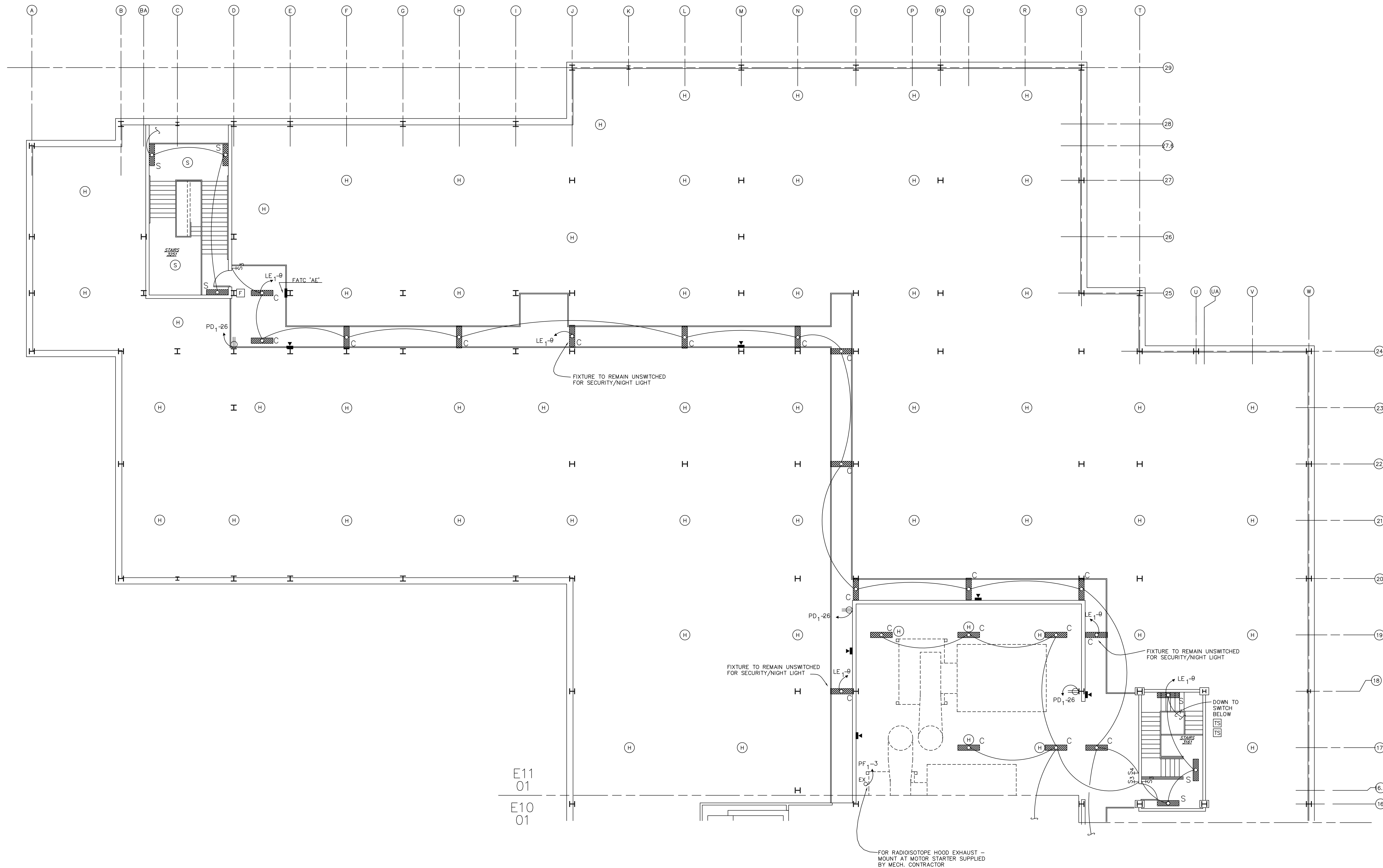
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LIGHTING AND POWER

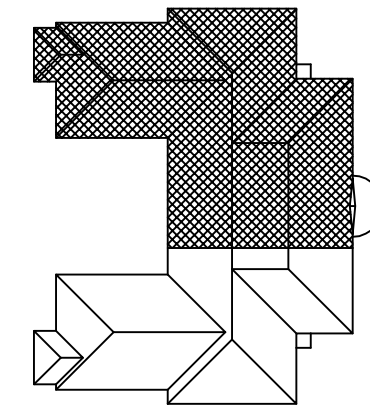
SHEET NO.:

E11

OF 17

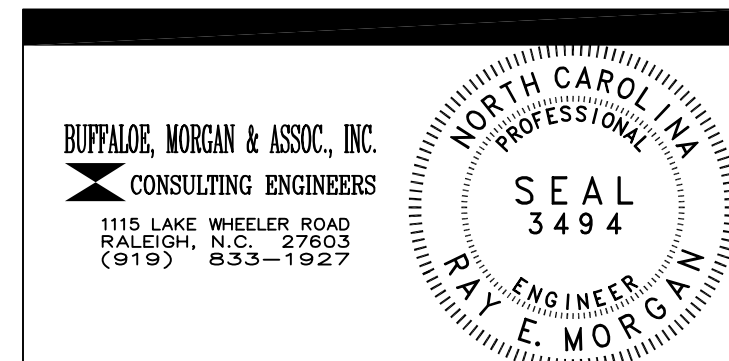


KEY PLAN



E11  
01

ATTIC - EAST  
FLOOR PLAN  
SCALE: 1/8" = 1'-0"



DRAWING REVISIONS:		
NO.	DATE:	REMARKS:

DATE: 16 MAY 1994  
PROJECT#: 9305  
DESIGNED BY: SAB  
DRAWN BY: SMC  
CHECKED BY: SAB  
CHECKED BY: REM



JEFFERIES AND FARIS  
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SCIENCE BUILDING  
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON  
CODE 49388 ITEM 301 ID#6089280301A

SHEET TITLE:

DETAILS

SHEET NO.:

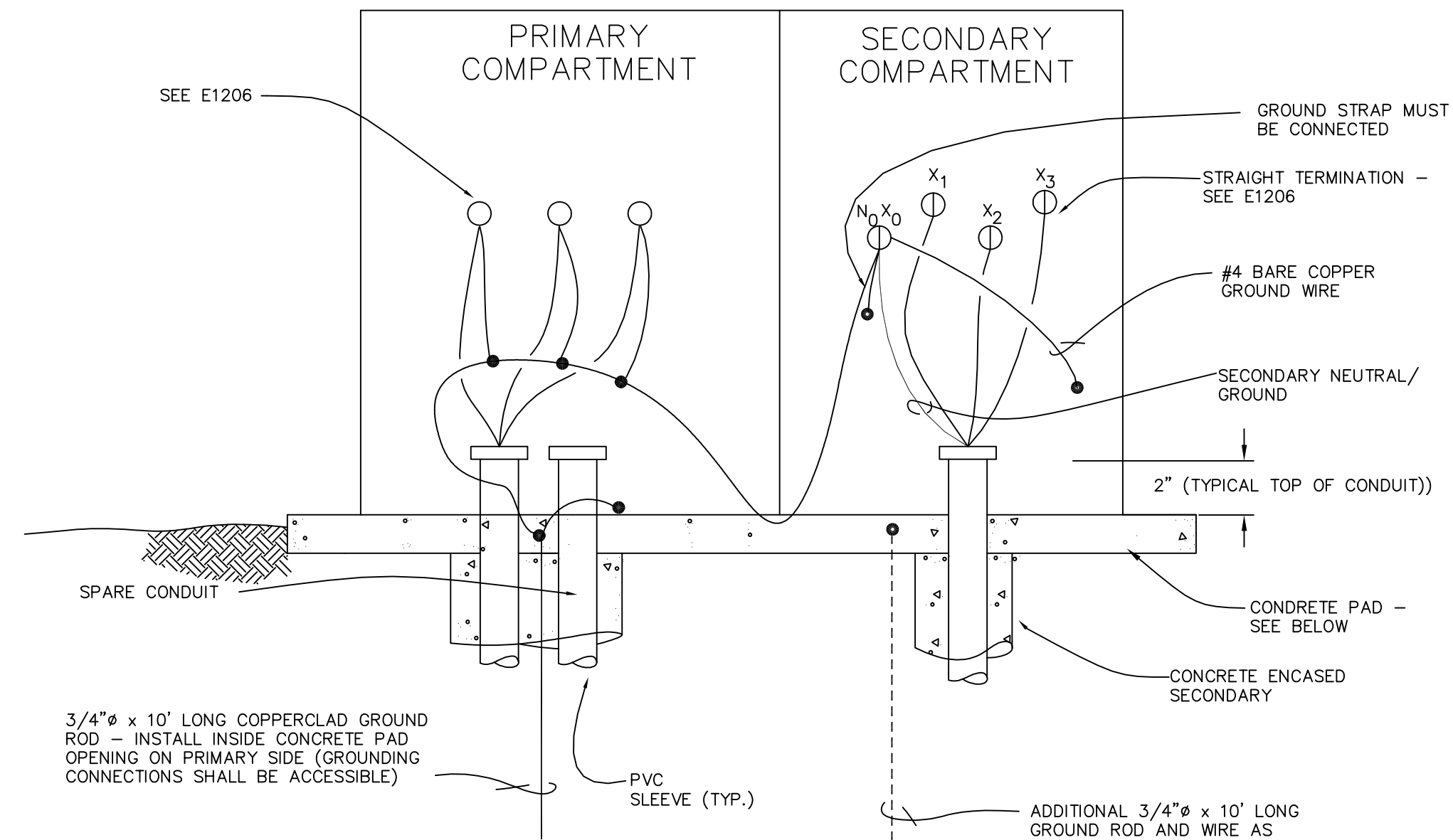
E12

OF 17

# TRANSFORMER GROUNDING NOTES

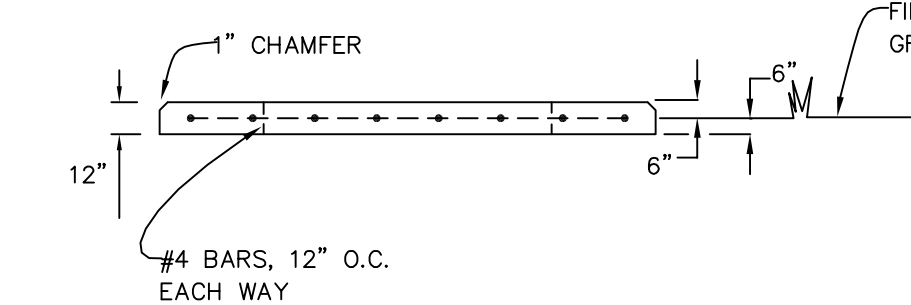
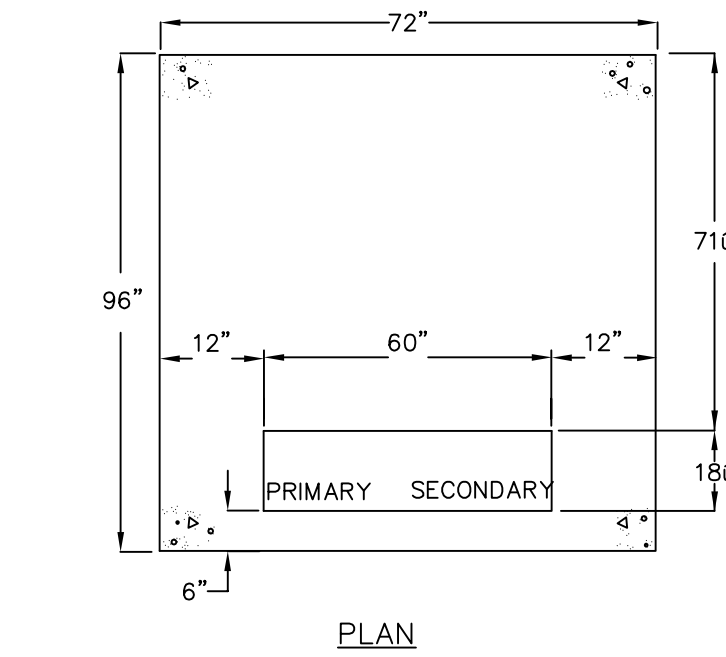
1. THE PRIMARY NEUTRAL CONDUCTOR MUST BE BONDED CONTINUOUSLY TO THE PRIMARY CONDUIT (IF METALLIC), THE GROUND ROD, TRANSFORMER TANK GROUND PAD IN THE PRIMARY COMPARTMENTS, AND THE HO/XO NEUTRAL BUSHING - THIS STEP SHALL BE REPEATED IF LOOP FEED TRANSFORMER
2. STRESS CONES AND PRIMARY CABLE SHIELD MUST BE GROUND TO NEUTRAL CONDUCTOR - THIS STEP SHALL BE REPEATED IF LOOP FEED TRANSFORMER
3. 1#4 COPPER GROUND WIRE SHALL BE BONDED TO HO/XO BUSHING, TO GROUND PAD IN SECONDARY COMPARTMENT, TO SECONDARY CONDUIT (IF METALLIC), AND TO GROUND ROD
4. GROUND STRAP MUST CONNECT HO/XO BUSHING TO TRANSFORMER TANK
5. A SUITABLE, FLEXIBLE #6 COPPER ARRESTOR LEAD SHALL BE INSTALLED FROM EACH ARRESTOR DIRECTLY TO GROUND ROD (NOT SHOWN)
6. PRIMARY AND SECONDARY CONDUITS SHALL EXTEND TWO INCHES ABOVE CONCRETE PAD
7. IF RESISTANCE OF GROUND ROD EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND ROD MINIMUM 10' AWAY - INNER-CONNECT GROUND RODS USING 1#4 COPPER WIRE
8. COMPLETE INSTALLATION MUST BE IN COMPLIANCE WITH THE NATIONAL ELECTRICAL SAFETY CODE, ANSI C2

2500 KVA, 15 KV PRIMARY  
277/480 VOLT, 3 PHASE, 4 WIRE  
SECONDARY



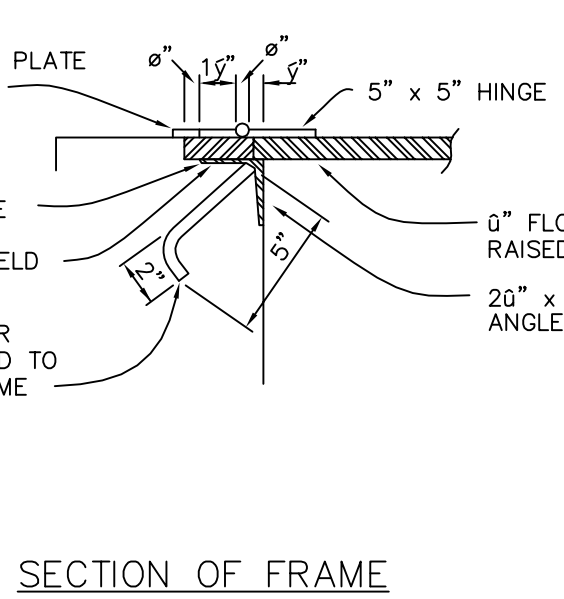
## TRANSFORMER PAD NOTES

1. CONCRETE SHOULD BE 5 1/2% AIR ENTRAINED, 3000 PSI MINIMUM PLACED AND COMPACTED ON UNDISTURBED EARTH OR 96% COMPACTED FILL - ALL EXPOSED SURFACES OF PAD SHALL BE FREE OF VOIDS AND TROWELED SMOOTH WITH A 1" CHAMFER APPLIED TO ALL EXPOSED EDGES
2. ELECTRICAL CONTRACTOR TO VERIFY EXACT DIMENSIONS OF PAD WITH TRANSFORMER MANUFACTURER
3. INCREASE WIDTH AND LENGTH DIMENSIONS BY 6" TO PROTECT TRANSFORMER FROM LAWN MOWERS

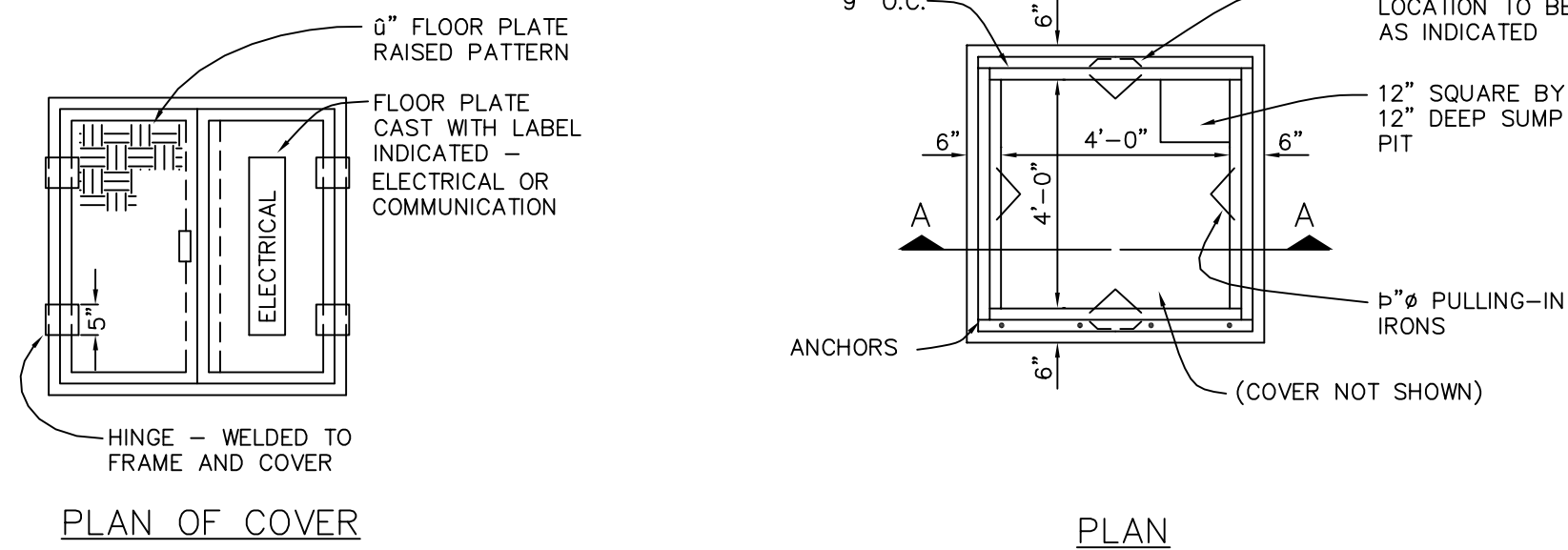


E12  
04  
DETAIL  
NO SCALE

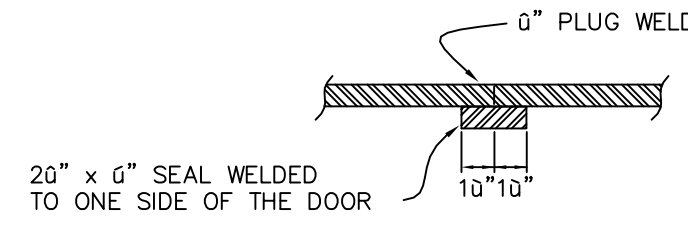
TRANSFORMER BONDING (TYPICAL)



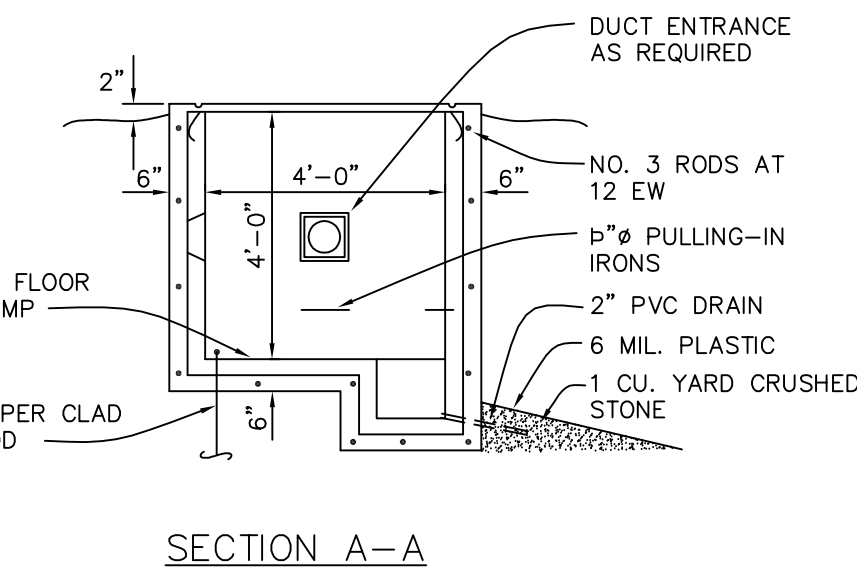
SECTION OF FRAME



PLAN OF COVER



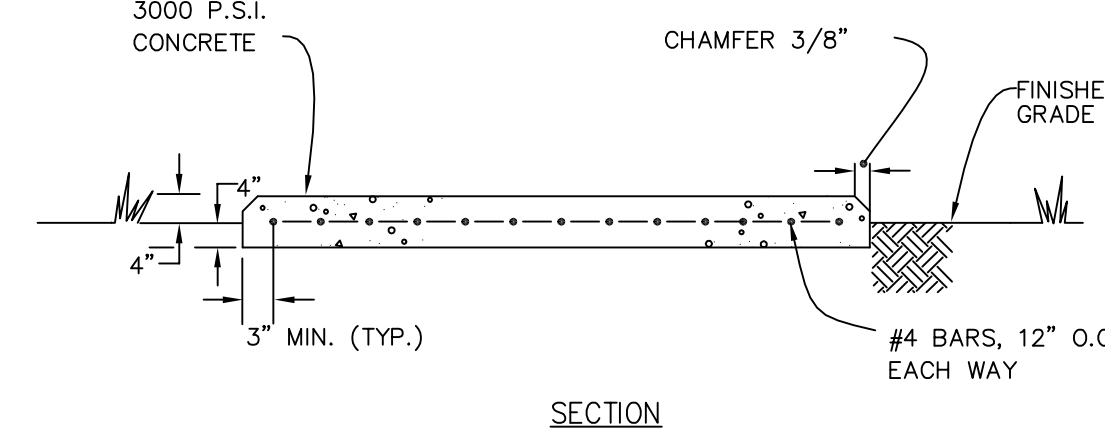
SEAL DETAIL



SECTION A-A

E12  
03  
DETAIL  
NO SCALE

MANHOLE

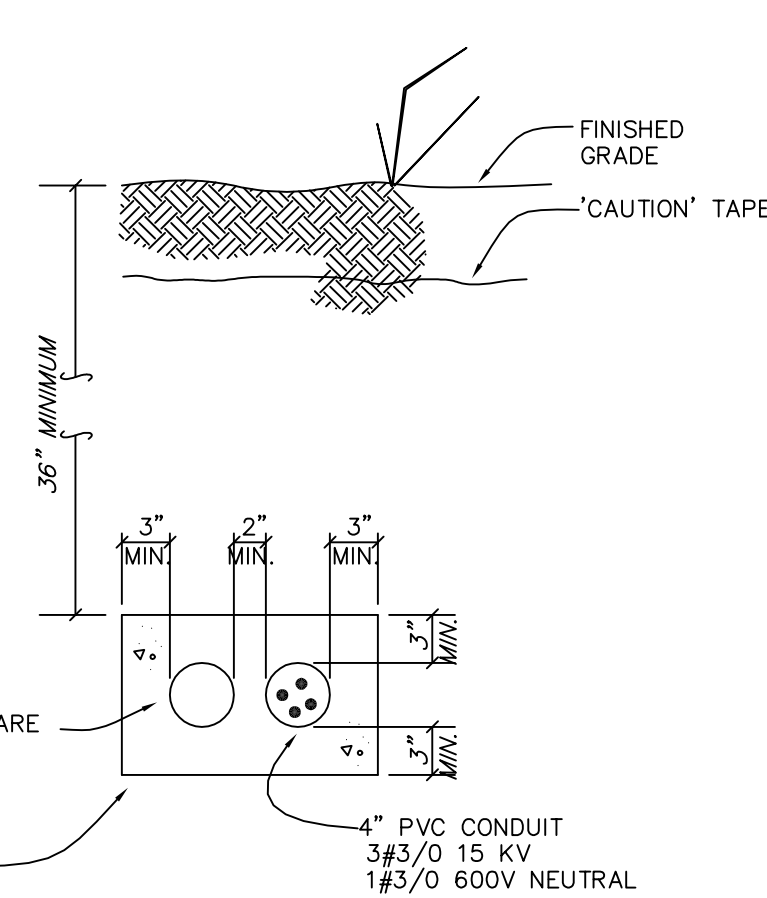


SECTION

S&C MODEL PMH-9

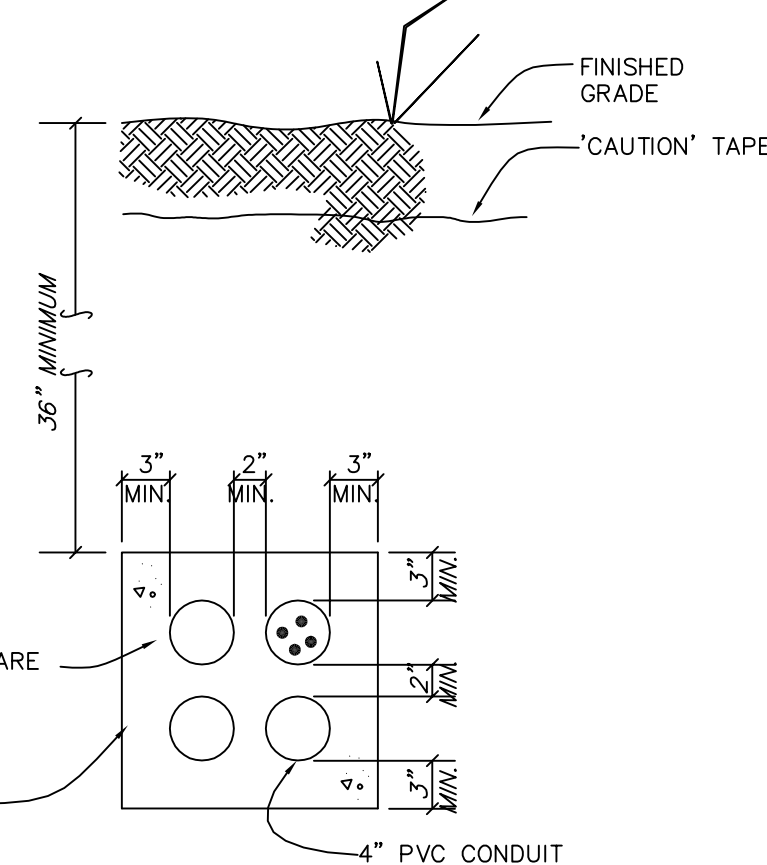
E12  
05  
DETAIL  
NO SCALE

SECTIONALIZING SWITCH / PAD



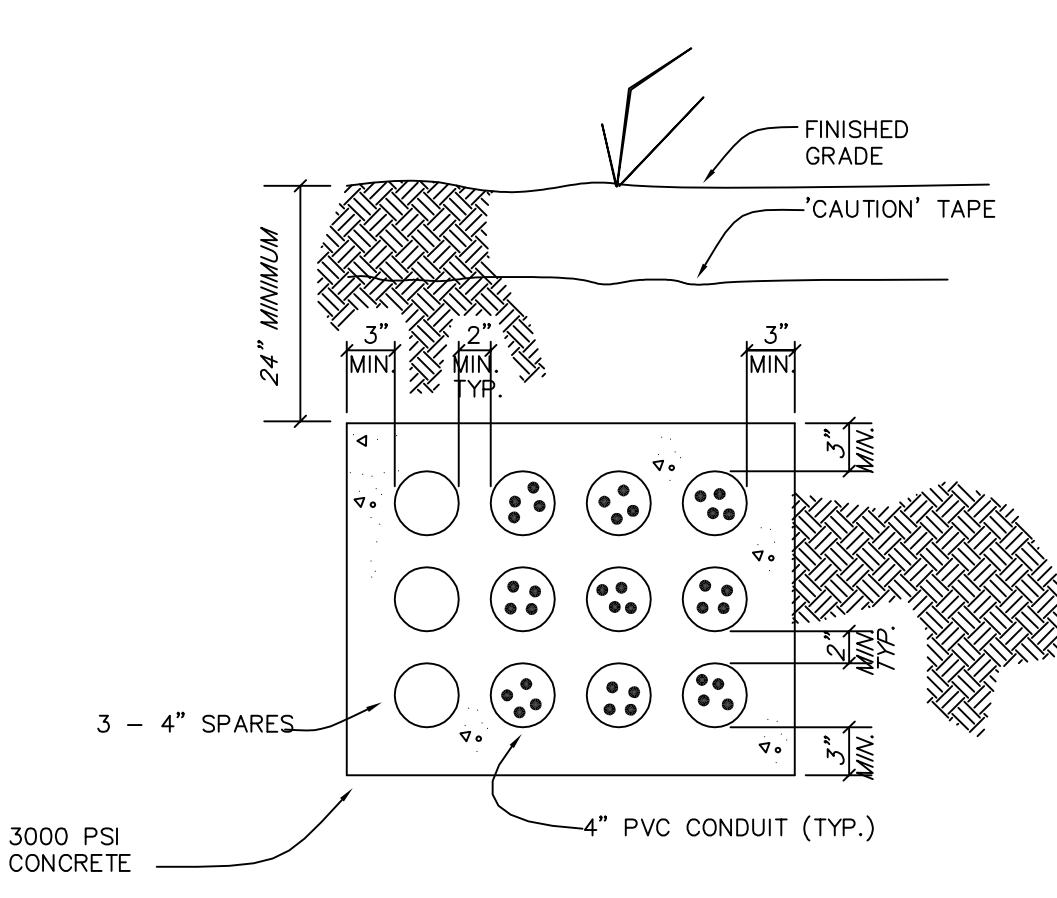
E12  
02  
DETAIL  
NO SCALE

DUCT BANK (PRIMARY SERVICE)



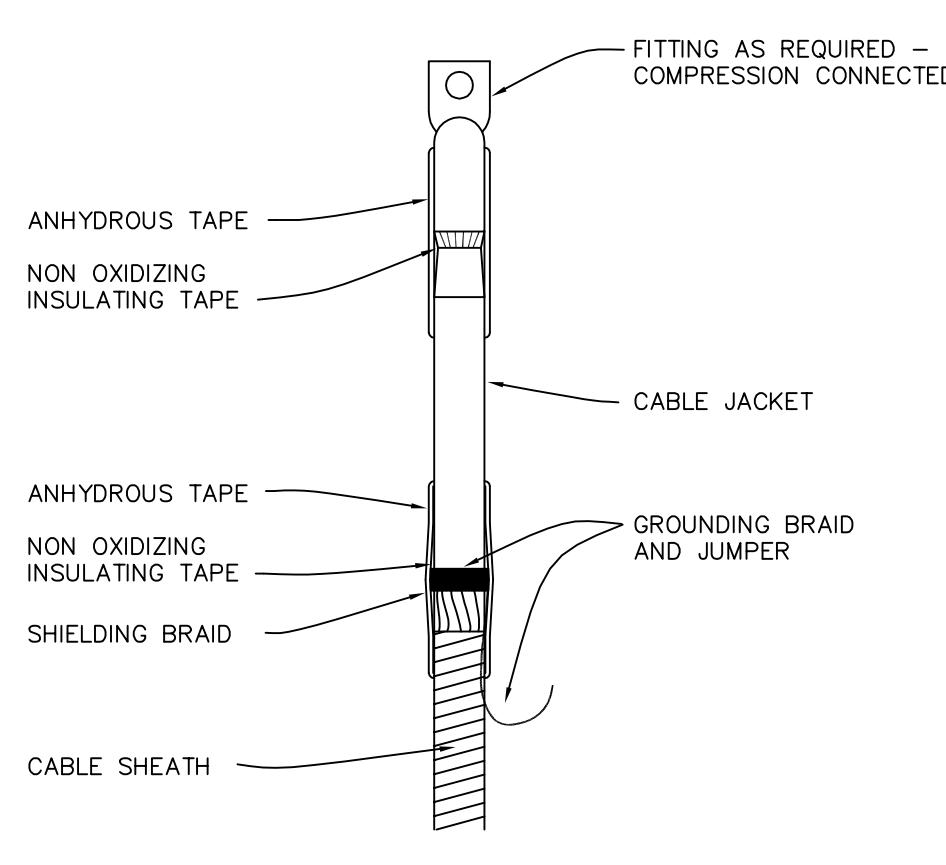
E12  
07  
DETAIL  
NO SCALE

DUCT BANK ( COMMUNICATIONS )



E12  
01  
DETAIL  
NO SCALE

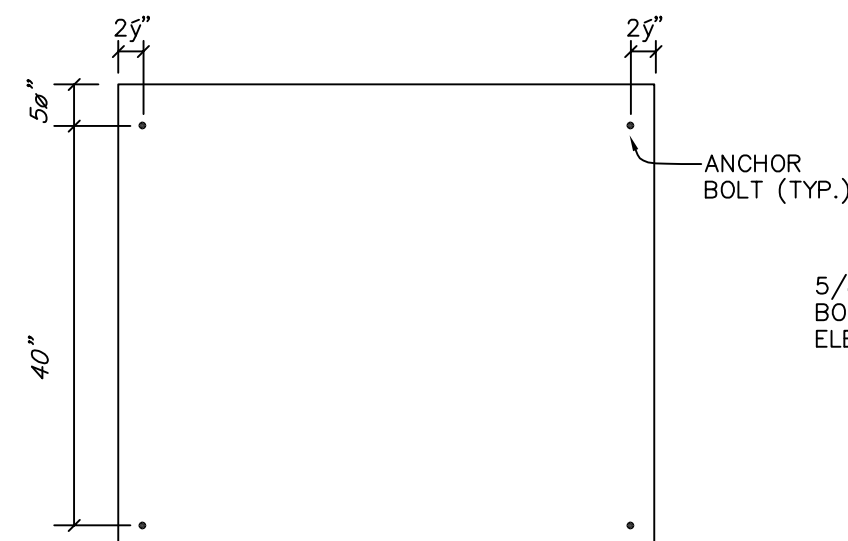
DUCT BANK (SECONDARY SERVICE)



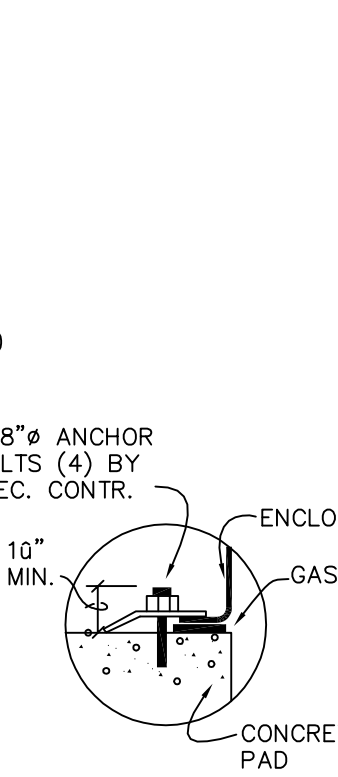
STRAIGHT HV CABLE TERMINATION

E12  
06  
DETAILS  
NO SCALE

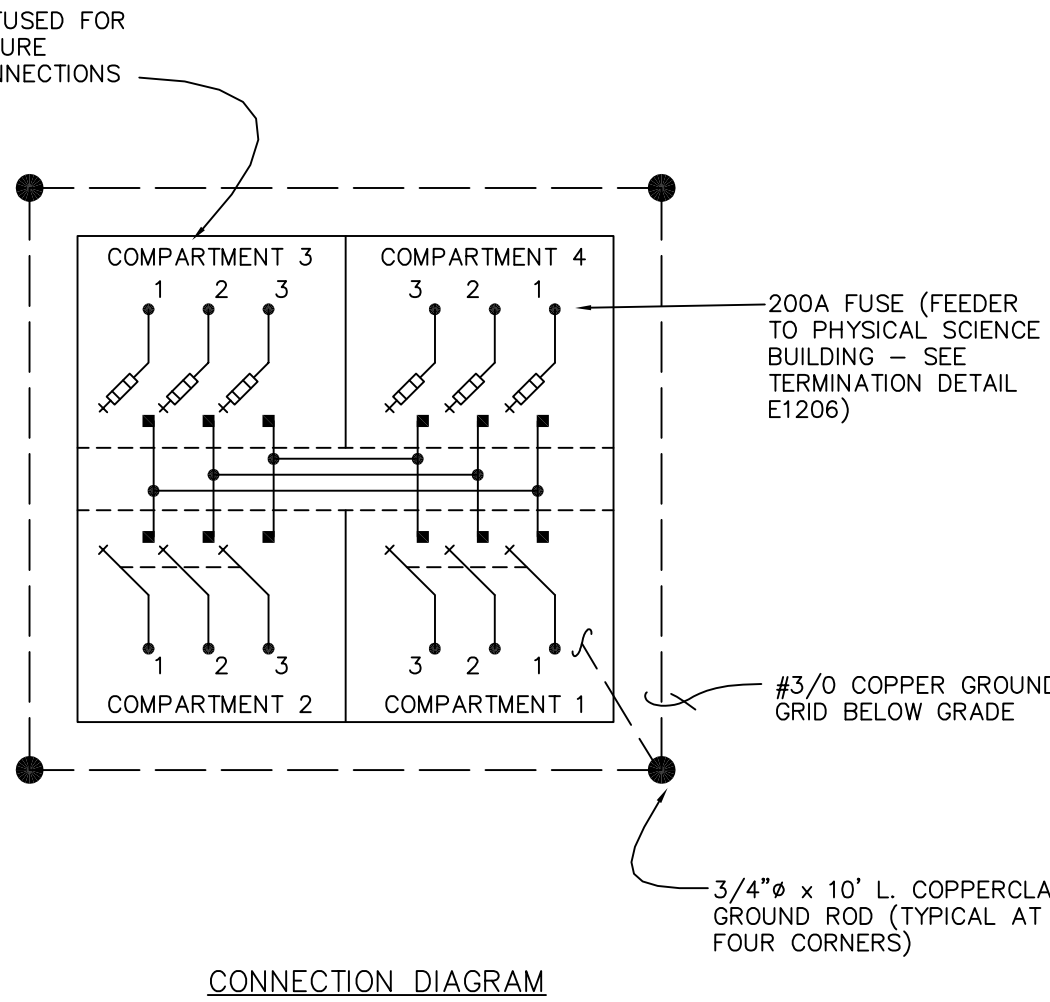
CABLE TERMINATION



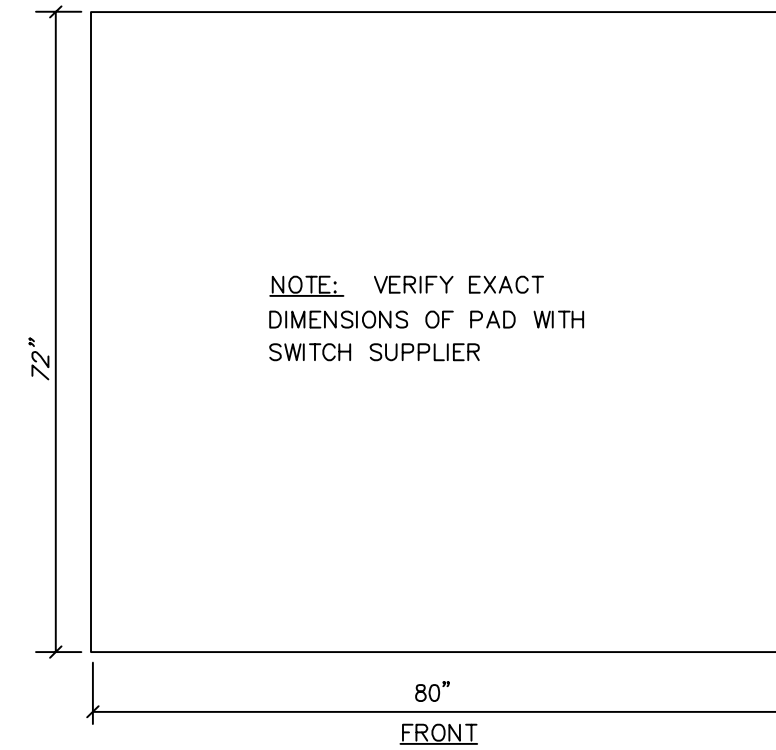
ANCHOR BOLT PLAN



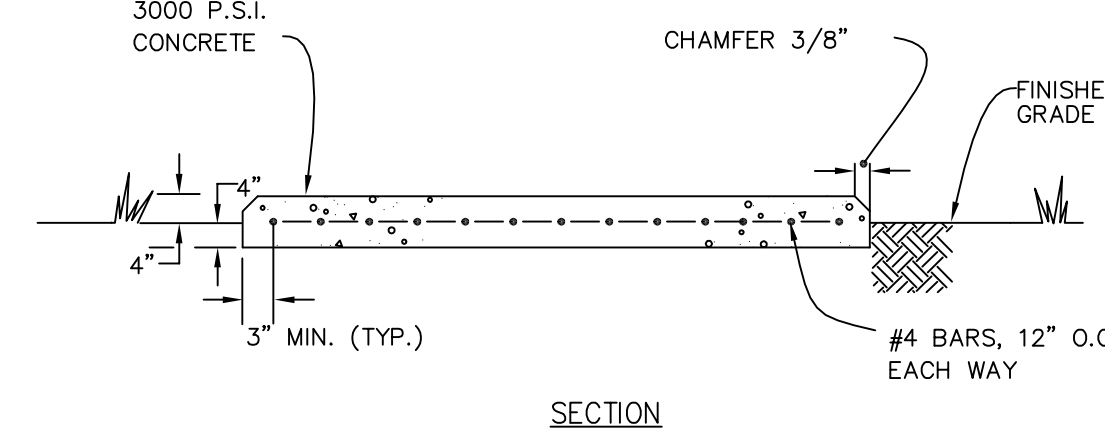
ANCHOR BOLT DETAIL



CONNECTION DIAGRAM



PLAN

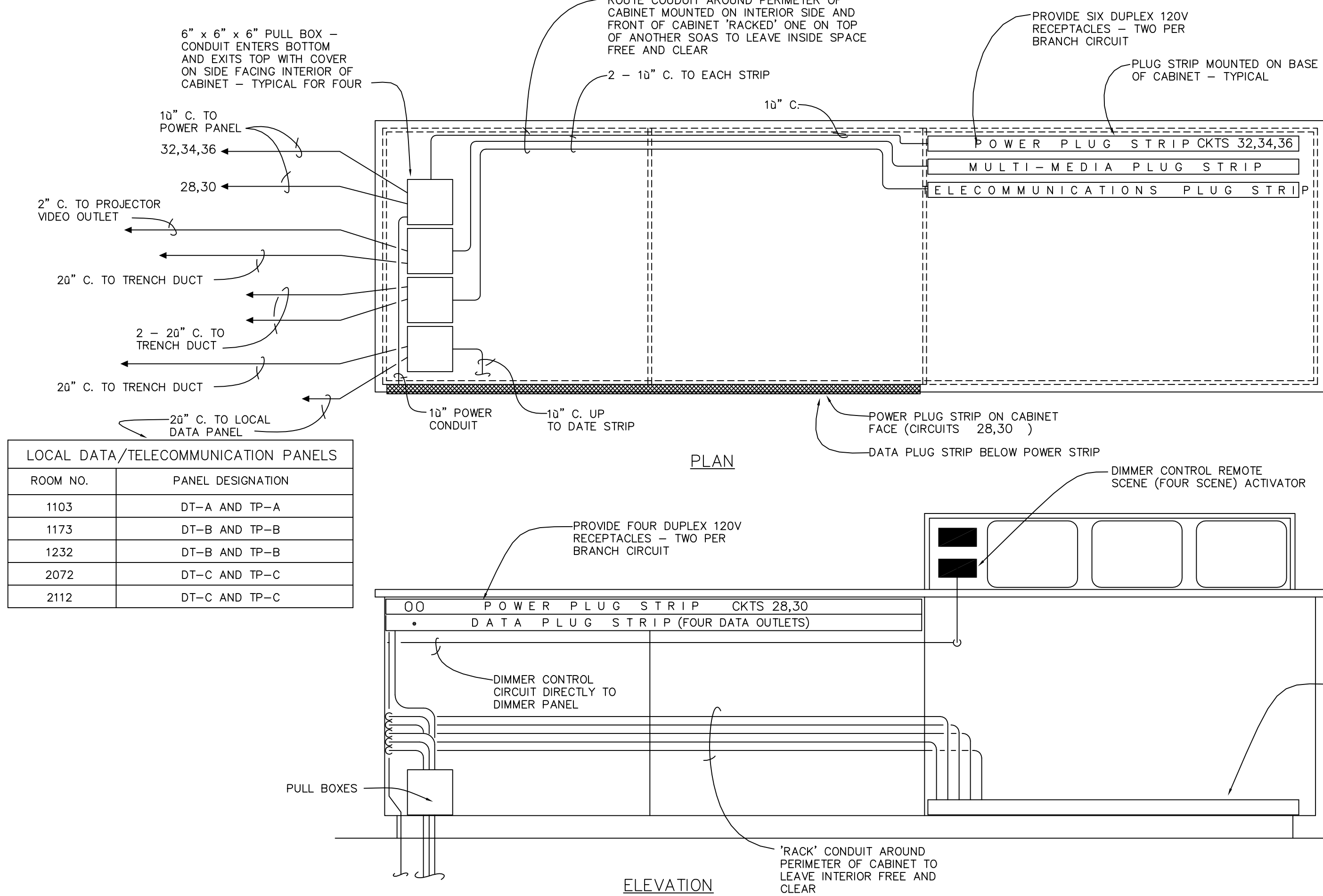


SECTION

S&C MODEL PMH-9

E12  
05  
DETAIL  
NO SCALE

SECTIONALIZING SWITCH / PAD

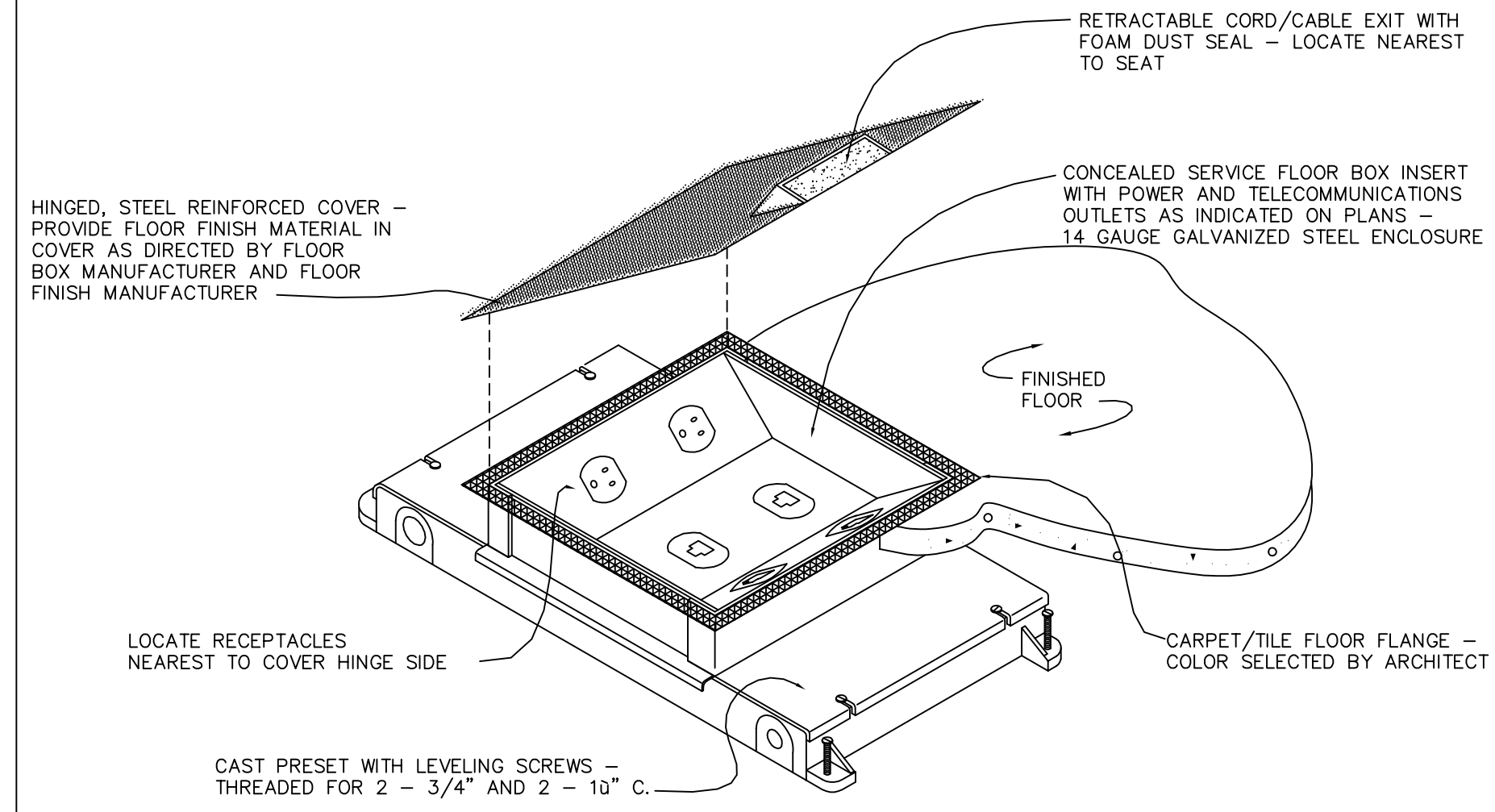


ELEVATION

ROOM NO.	PANEL DESIGNATION
1103	DT-A AND TP-A
1173	DT-B AND TP-B
1232	DT-B AND TP-B
2072	DT-C AND TP-C
2112	DT-C AND TP-C

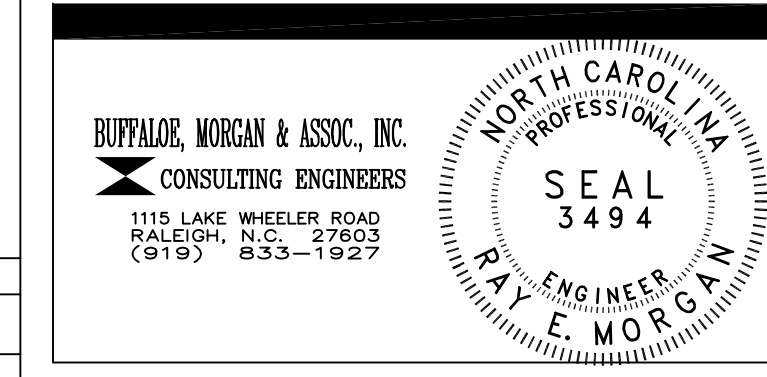
## NOTES:

1. COORDINATE ALL WORK CLOSELY WITH CASEWORK CONTRACTOR, HVAC AND PLUMBING CONTRACTORS PRIOR TO INSTALLATION SO AS TO AVOID ANY CONFLICT DURING CONSTRUCTION
2. ALL RACEWAY AND CIRCUITRY ROUTE TO RESPECTIVE PANELS AND RACEWAYS ASSOCIATED WITH RESPECTIVE LECTURE BENCHES/ROOMS - SEE PLANS



E12  
08  
DETAIL  
NO SCALE

LECTURE ROOM FLOOR BOX  
CONCEALED SERVICE FLOOR BOX



DRAWING REVISIONS:		
NO.	DATE:	REMARKS:

DATE: 16 MAY 1994  
PROJECT#: 9305  
DESIGNED BY: SAB  
DRAWN BY: DDS, SMC  
CHECKED BY: SAB  
CHECKED BY: REM

SHEET NO.:

E12

OF 17

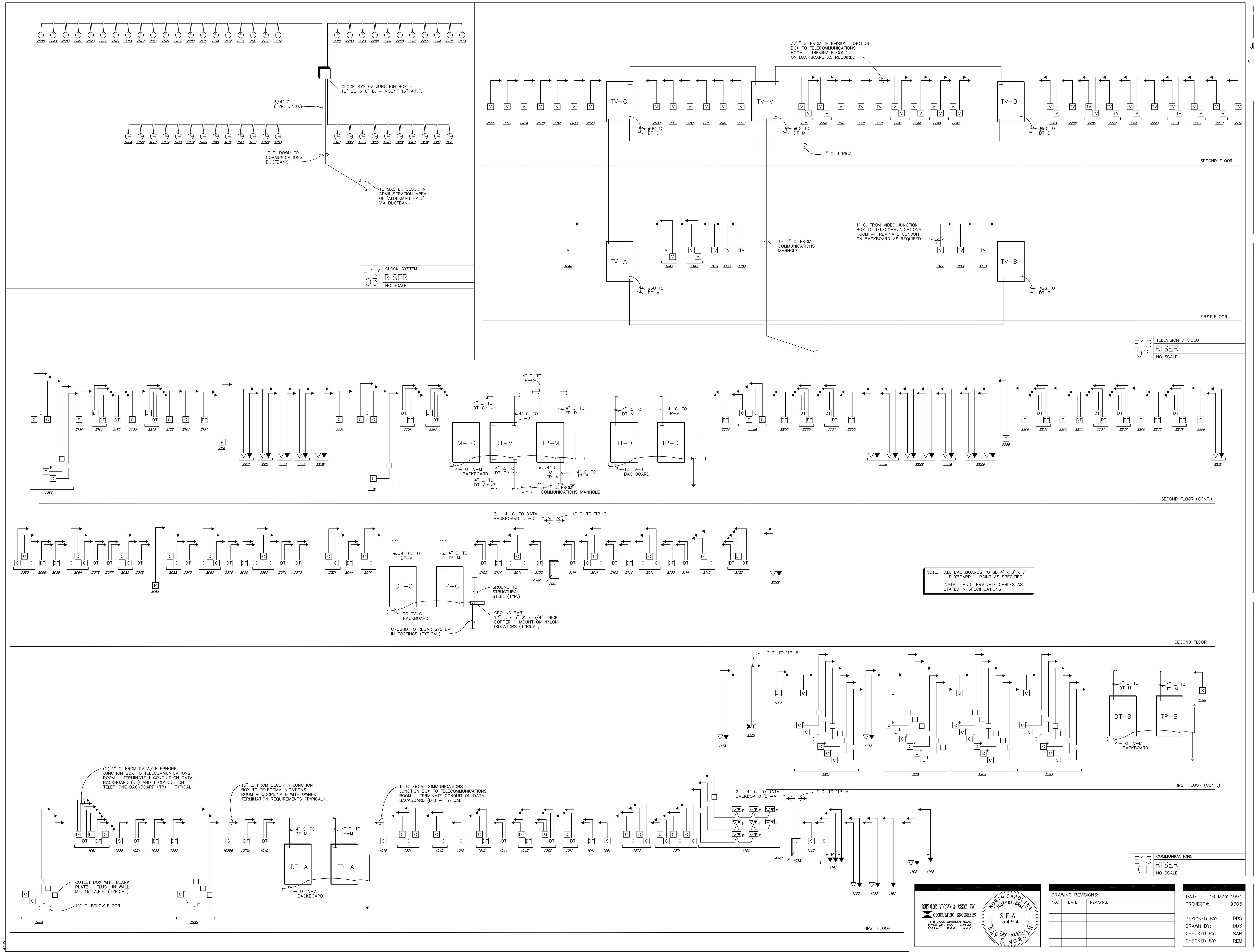




SCIENCE BUILDING  
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON  
CODE 49388 ITEM 301 ID#6089280301A

CLOCK SYSTEM RISER  
COMMUNICATIONS RISER  
TELEVISION/VIDEO RISER

E13





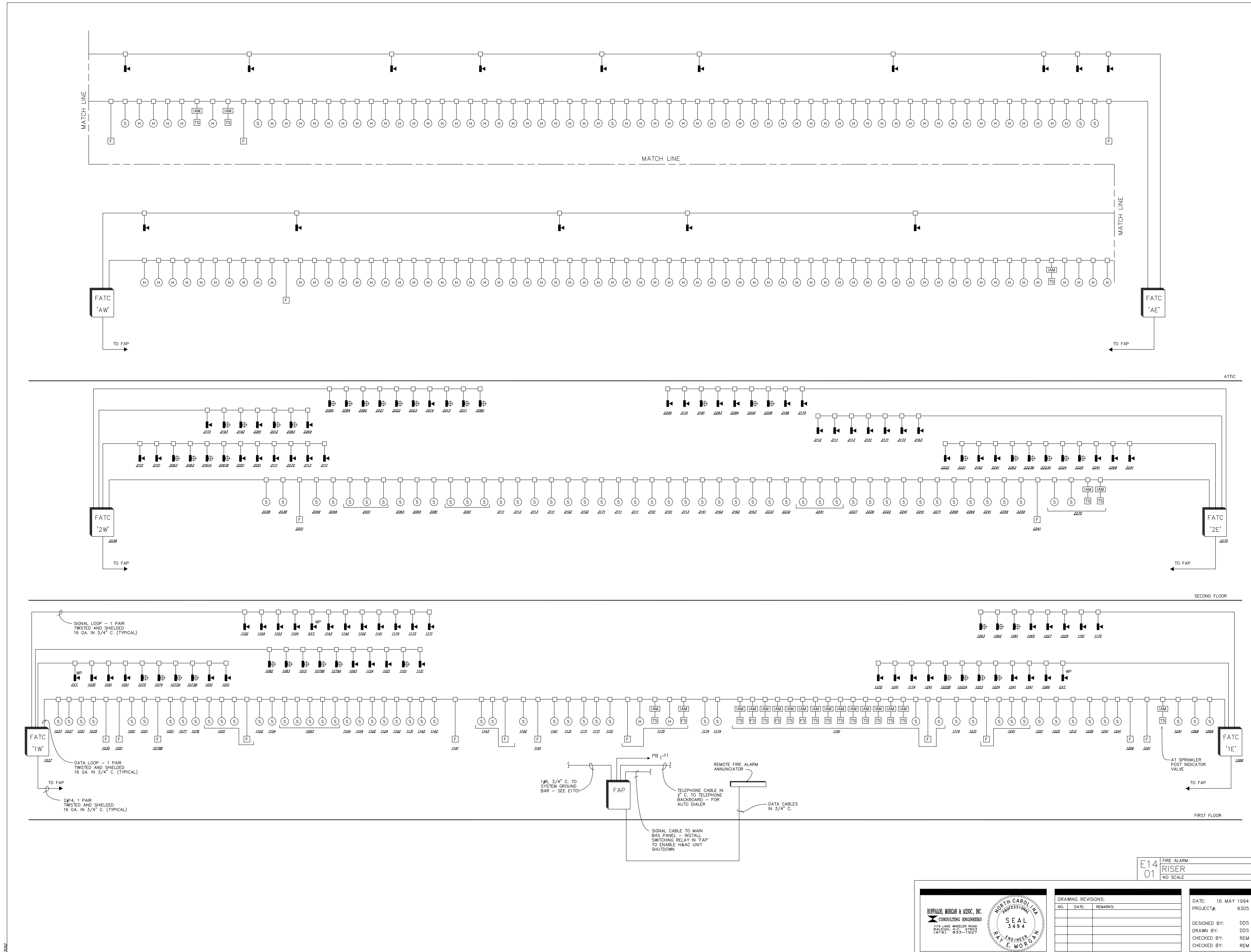
1885

SCIENCE BUILDING  
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON  
CODE 49388 ITEM 301 ID#6089280301A

SHEET TITLE:

FIRE ALARM SCHEMATIC

SHEET NO.:  
E14  
OF 17

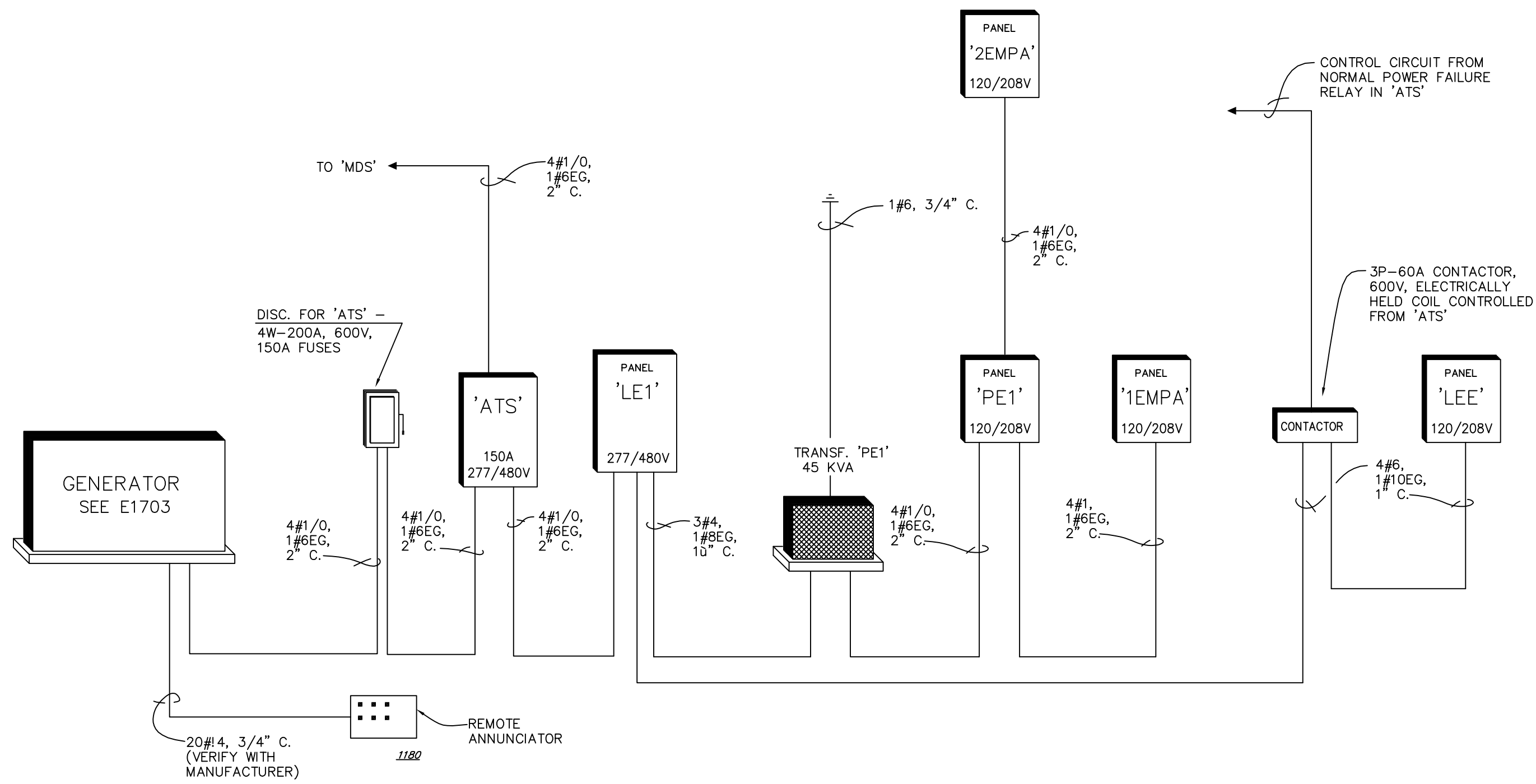




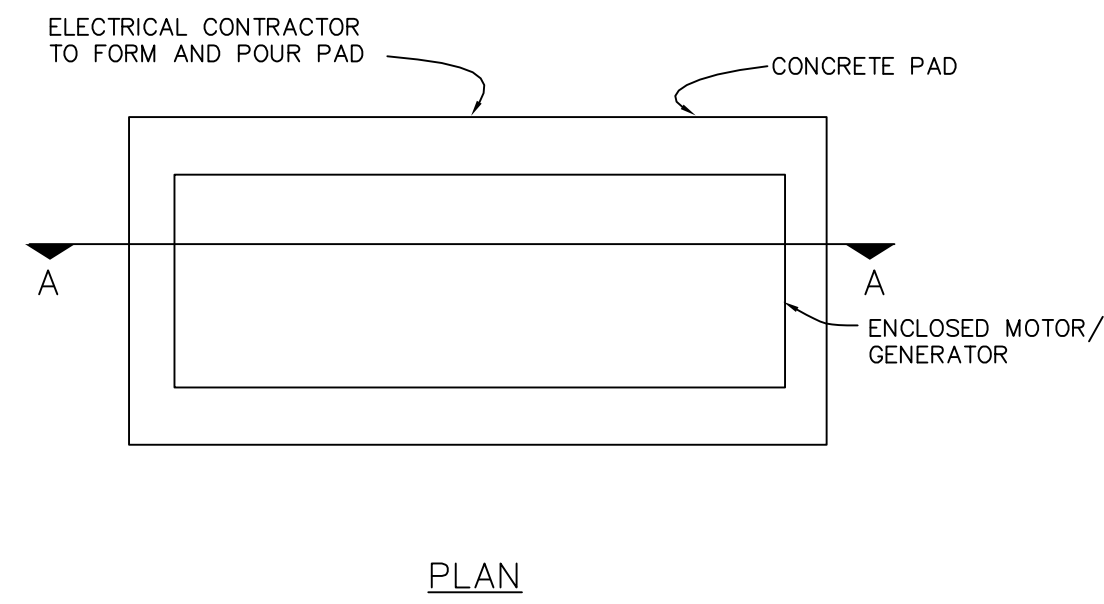
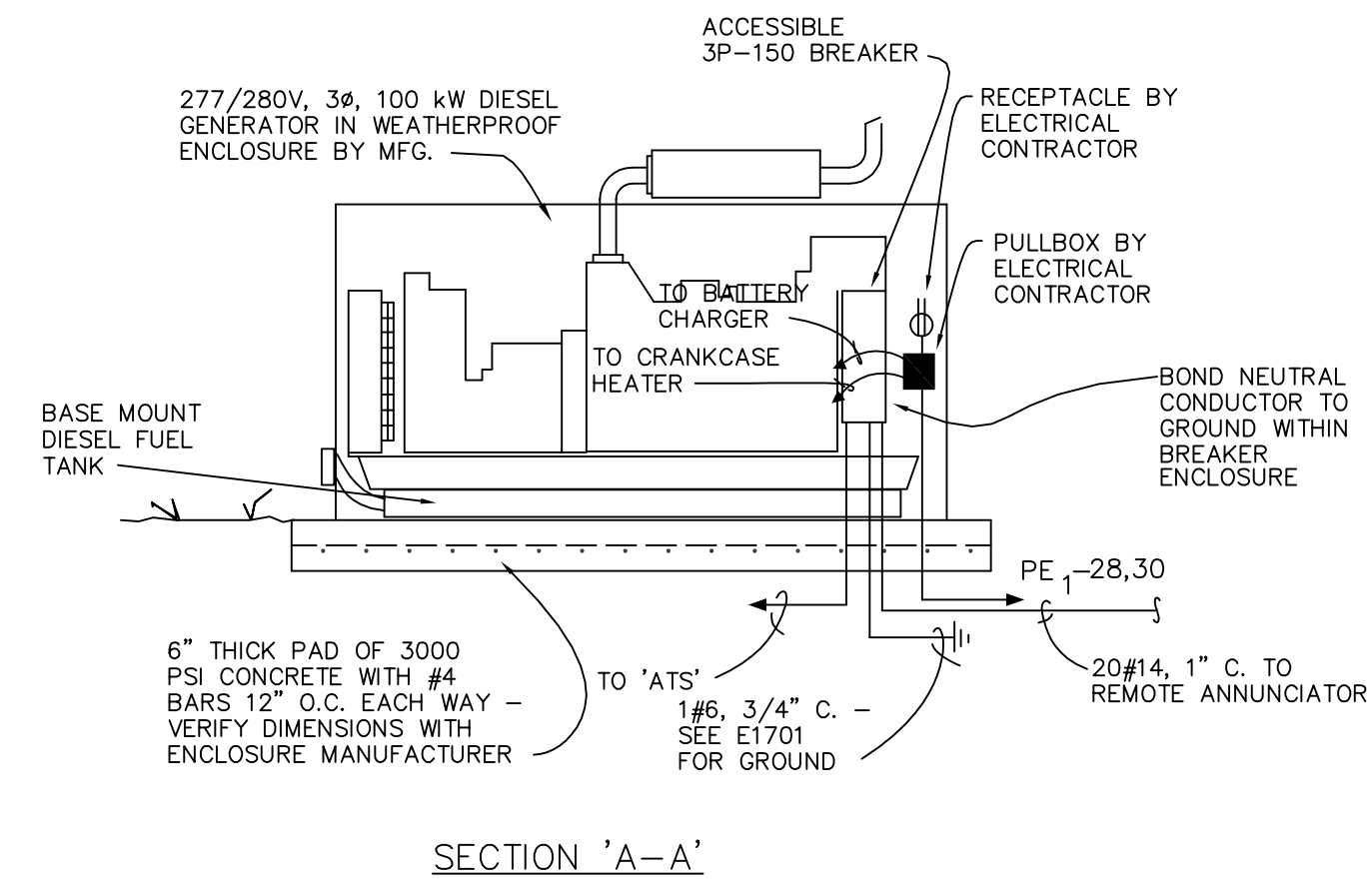




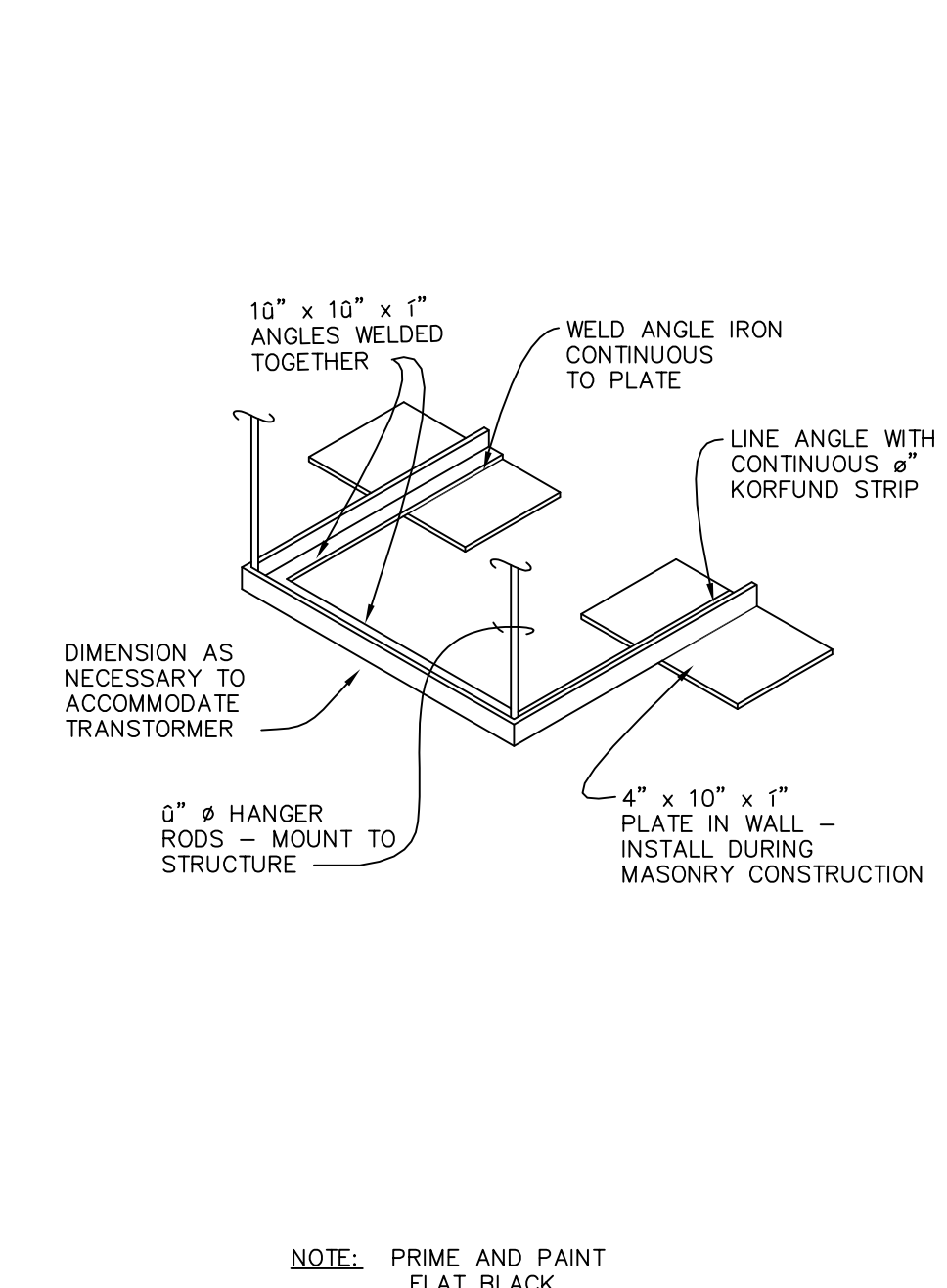




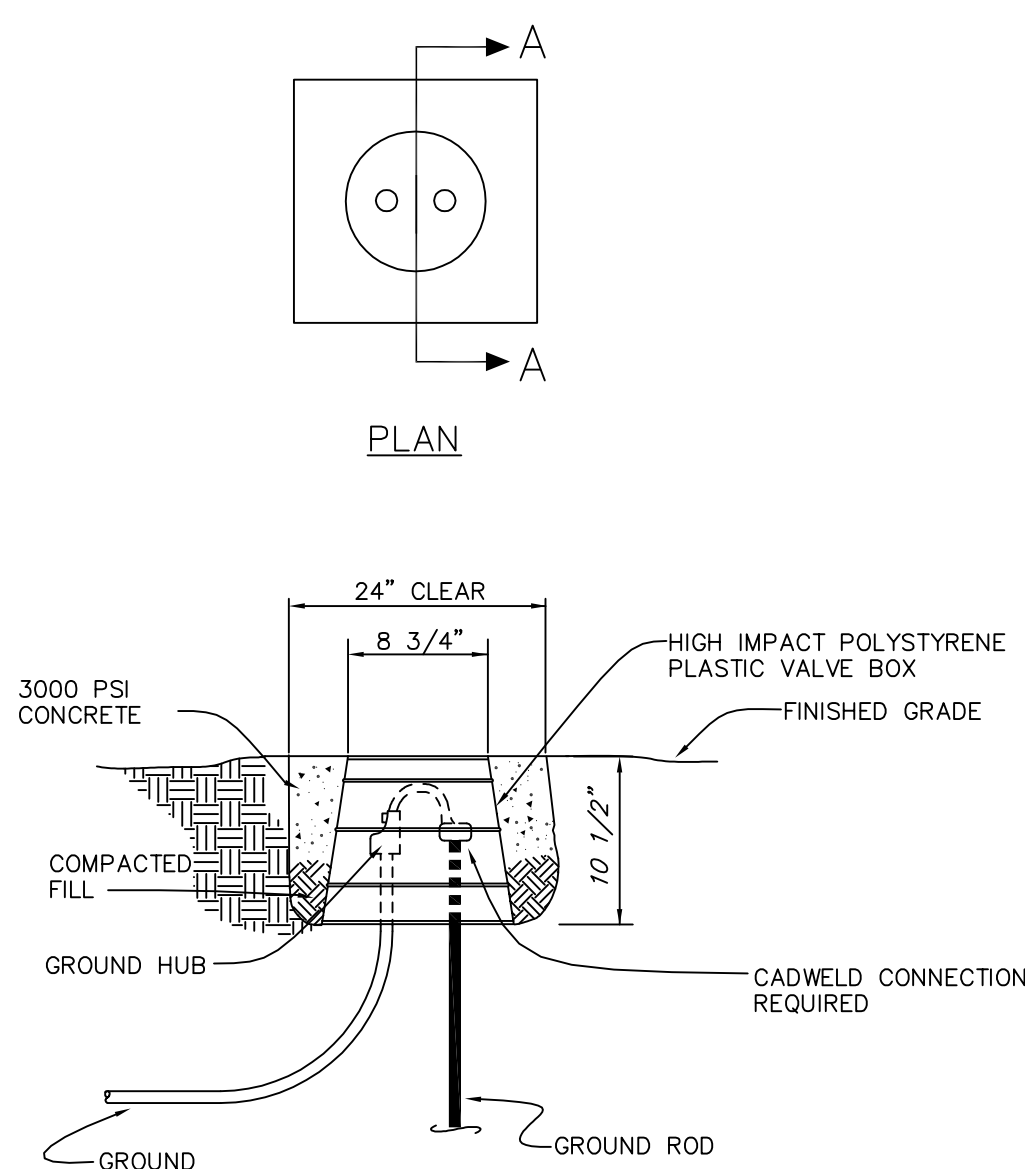
E17  
02  
EMERGENCY POWER  
RISER  
NO SCALE



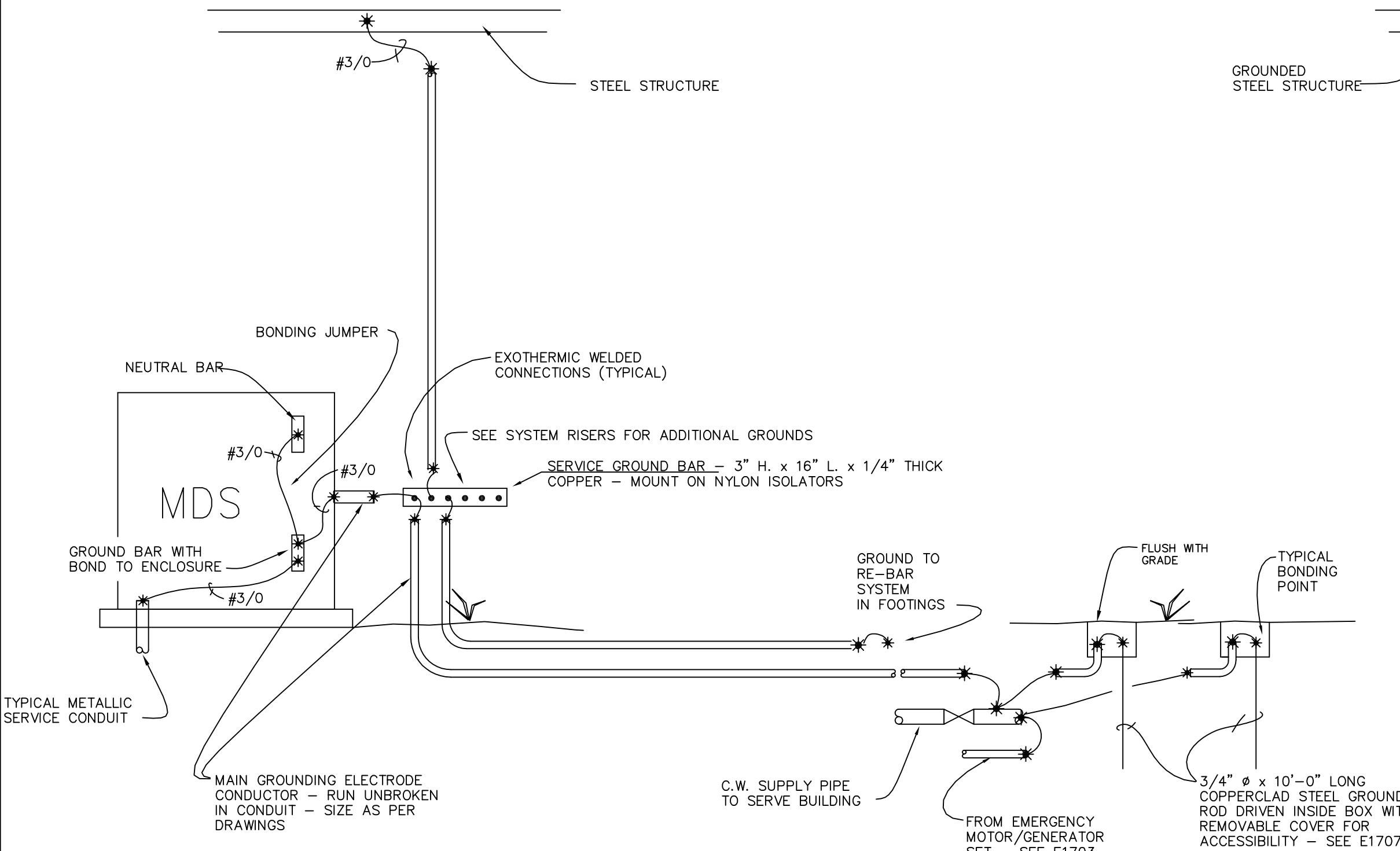
E17  
03  
MOTOR GENERATOR  
DETAIL  
NO SCALE



E17  
08  
WALL MOUNT TRANSFORMER BRACKET  
DETAIL  
NO SCALE

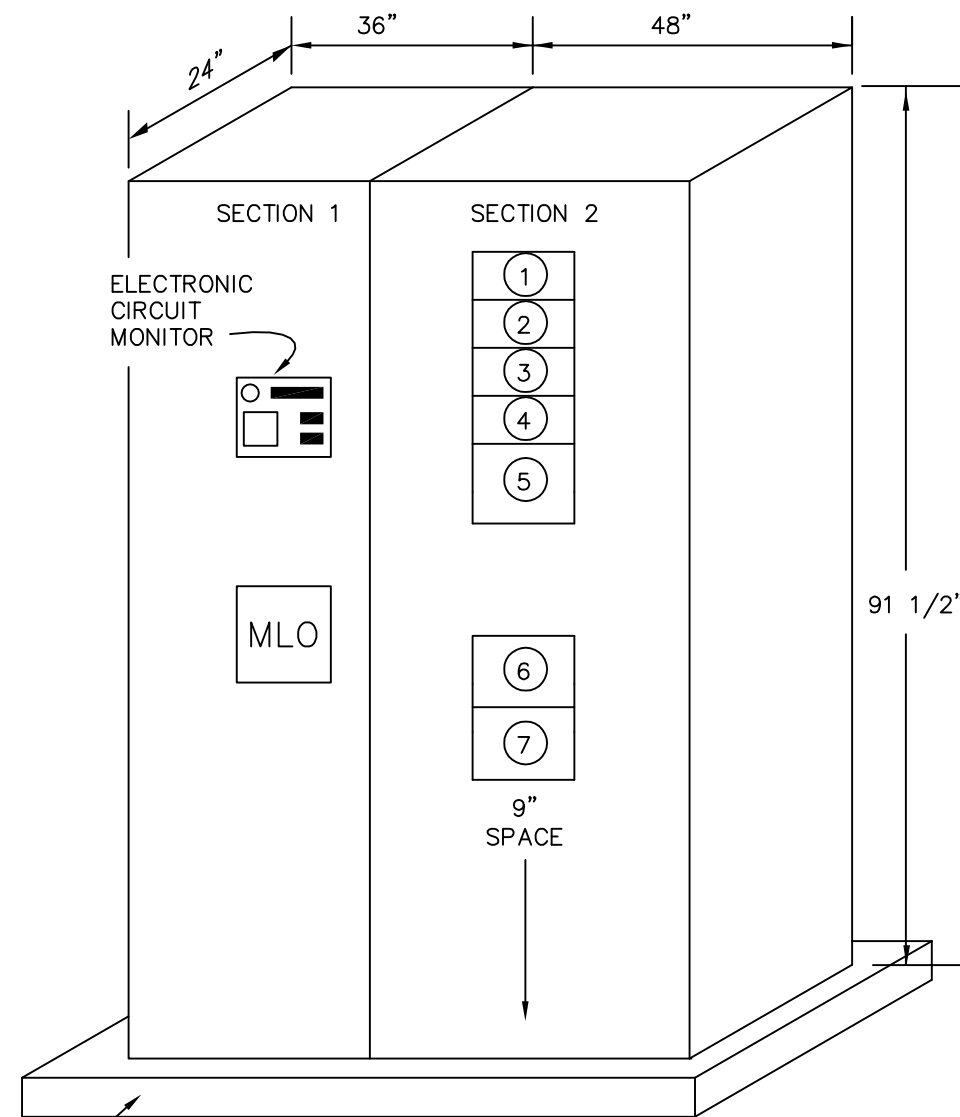


E17  
07  
GROUND ROD ENCLOSURE  
DETAIL  
NO SCALE



SWITCHBOARD 'SDS' SCHEDULE				
NO.	DESCRIPTION	BREAKER SIZE	MIN. AIA	REMARKS
1	COND. PUMP	3P-40A	65,000	♦
2	COND. PUMP			
3	CW PUMP			
4	CW PUMP			
5	COOLING TOWER GUTTER	3P-225A		
6	CHILLER	3P-800A		
7	CHILLER			

♦ MOLDED CASE CIRCUIT BREAKER



277/480V, 3 PHASE, 4 WIRE SWITCHBOARD:  
FREE-STANDING, FRONT ACCESSIBLE

SECTION 1 TO HAVE 3P-1600A MAIN LUGS ONLY WITH 1600A VERTICAL BUSSING AND 1600A CROSSOVER BUSSING TO SECTION 2

SECTION 2 TO HAVE SINGLE ROW BREAKERS AS SHOWN WITH 1600A VERTICAL BUSSING

E17  
05  
SWITCHBOARD SDS  
DETAIL  
NO SCALE

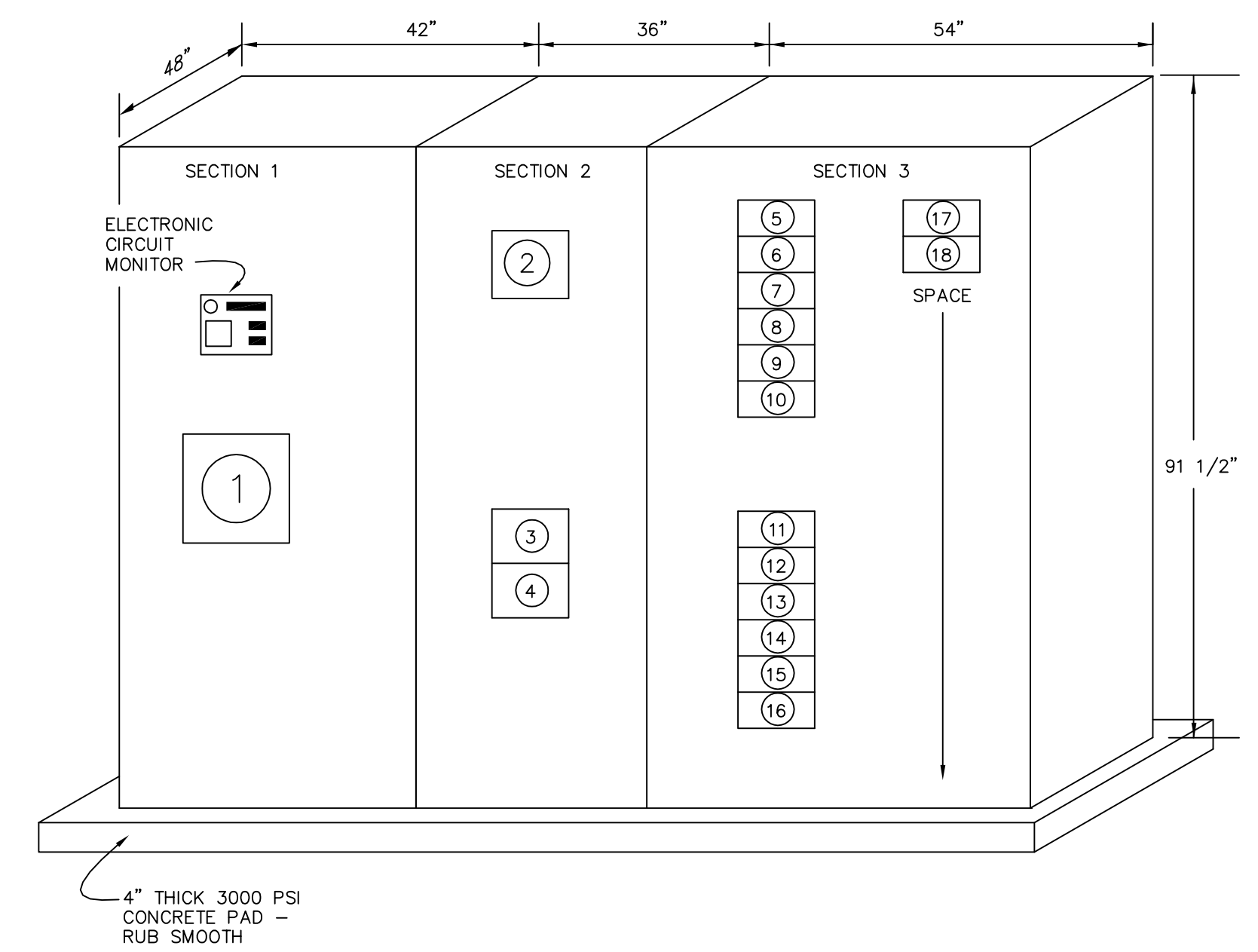
SWITCHBOARD 'MDS' SCHEDULE				
NO.	DESCRIPTION	BREAKER SIZE	MIN. AIA	REMARKS
1	MAIN	3P-4000A	100,000	♦
2	SDS	3P-1600A		✕
3	PANEL 'LD1'	3P-500A		
4	PANEL 'LF1'	3P-500A		
5	ELEVATOR	3P-100A		✕
6	ATS	3P-150A		
7	PANEL 'B'	3P-125A		
8	MECH. FAN 'W1'	3P-100A		
9	MECH. FAN 'E1'	3P-100A		
10	MECH. FAN 'W2'	3P-150A		
11	MECH. FAN 'E2'	3P-150A		
12	PANEL 'LA1'	3P-225A		
13	PANEL 'LB1'	3P-225A		
14	PANEL 'LC1'	3P-225A		
15	DISC. 'PDA'	3P-225A		
16	PANEL 'LG1'	3P-400A		
17	DISC. 'PDB'	3P-225A		
18	DISC. 'PDC'	3P-225A		

♦ ELECTRONIC MAIN BREAKER (GFI PROTECTED) WITH TRIP RATING ADJUSTED TO 3400 AMPS

✕ ELECTRONIC SOLID STATE BREAKER WITH TRIP RATING ADJUSTED TO 1600 AMPS

▲ COORDINATE AIC RATING WITH LOCAL POWER COMPANY

✱ SHUNT TRIP BREAKER CONTROLLED BY 'FAP'



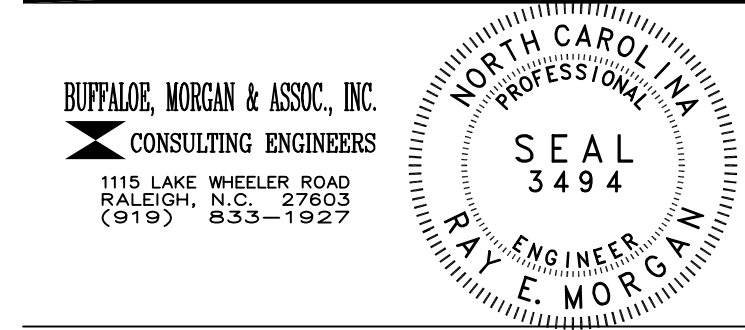
277/480V, 3 PHASE, 4 WIRE SWITCHBOARD:  
FREE-STANDING, FRONT AND REAR ACCESSIBLE

SECTION 1 TO HAVE 3P-4000A SOLID STATE MAIN BREAKER WITH 4000A VERTICAL BUSSING AND 4000A CROSSOVER BUSSING TO SECTION 2

SECTION 2 TO HAVE SINGLE ROW BREAKERS AS SHOWN WITH 3000A VERTICAL BUSSING AND 3000A CROSSOVER BUSSING TO SECTION 3

SECTION 3 TO HAVE 3000A VERTICAL BUSSING

E17  
04  
SWITCHBOARD MDS  
DETAIL  
NO SCALE



DRAWING REVISIONS:		
NO.	DATE:	REMARKS:

DATE: 16 MAY 1994  
PROJECT#: 9305

DESIGNED BY: SAB  
DRAWN BY: SMC  
CHECKED BY: SAB  
CHECKED BY: REM

E17  
06  
COOLING TOWERS GUTTER  
DETAIL  
NO SCALE