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NEW BUILDING FACILITY:
CENTRAL BAPTIST CHURCH
 Oak Ridge, North Carolina

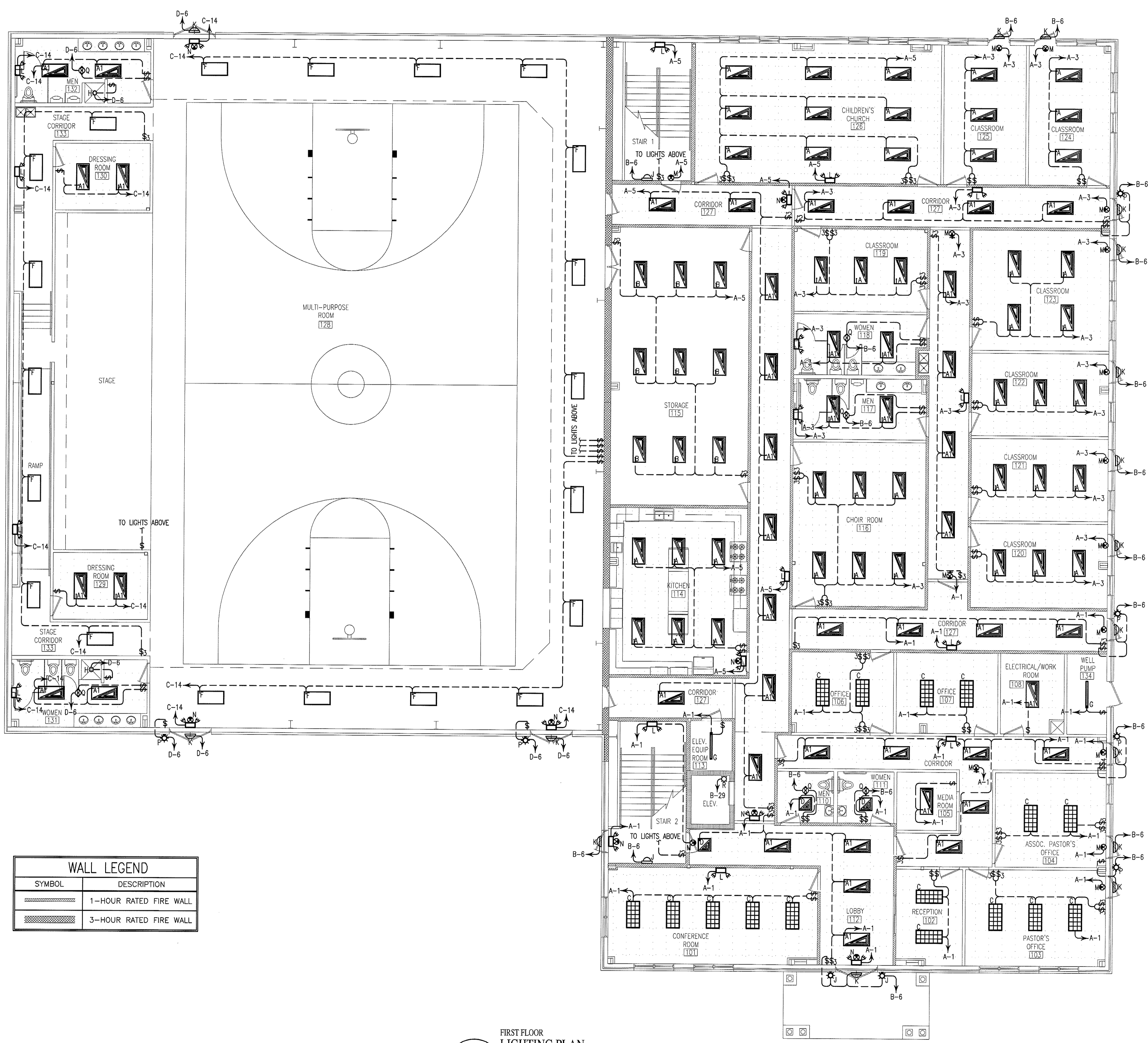
DRAWING NAME:
FIRST FLOOR LIGHTING PLAN

NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 25043
 ENGINEER
 KEVIN BELLEFANT
 8/26/09

DRAWN
 MJW
 CHECKED
 JMK
 DATE
 8/26/09
 SCALE
 AS NOTED
 JOB NO.
 9076
 SHEET

E-1

LIGHTING LEGEND		
MARK	SYMBOL	DESCRIPTION
A		2'x4' LAY-IN FLUORESCENT, 3-TUBE, WITH ACRYLIC LENS, T-8 LAMPS, (1) 2 LAMP AND (1) 1 LAMP ELECTRONIC BALLASTS, 96W, 277V
A1		2'x4' LAY-IN FLUORESCENT, 3-TUBE, WITH ACRYLIC LENS, T-8 LAMPS, 3-LAMP ELECTRONIC BALLAST, 96W, 277V
B		2'x4' SURFACE MOUNTED FLUORESCENT, 3-TUBE, WITH ACRYLIC LENS, T-8 LAMPS, 3-LAMP ELECTRONIC BALLAST, 96W, 277V
C		2'x4' LAY-IN FLUORESCENT, 3-TUBE, WITH 18 CELL PARABOLIC LENS, T-8 LAMPS, (1) 2 LAMP AND (1) 1 LAMP ELECTRONIC BALLASTS, 96W, 277V
D		2'x2' LAY-IN FLUORESCENT, 2-TUBE, WITH ACRYLIC LENS, T-8 LAMPS, ELECTRONIC BALLAST, 34W, 277V
E		T-5 HO FLUORESCENT LIGHT W/ WIRE GUARD 6 LAMPS, 324W, 277V
F		T-8 LOW BAY FLUORESCENT LIGHT W/ WIRE GUARD 4 LAMPS, 128W, 277V
G		4'-0" 2-TUBE FLUORESCENT STRIP LIGHT WITH REFLECTOR, T-8 LAMPS, ELECTRONIC BALLAST, 64W
H		RECESSED MOUNTED INCANDESCENT CAN LIGHT, 1-LAMP, 75W, RATED FOR DAMP LOCATION, 120V
J		INTERIOR WALL MOUNTED INCANDESCENT WALL SCONCE, 1-LAMP, 50W, 120V
K		DECORATIVE EXTERIOR EMERGENCY LIGHT, TWO 6W XENON LAMPS, W/HIGH-TEMPERATURE NICKEL-CADMIUM BATTERY, LITHONIA #AFN-W-EXT
L		EMERGENCY LIGHT WITH BATTERY BACK-UP, 277V
M		EXIT SIGN WITH BATTERY BACK-UP, 277V
N		EMERGENCY/EXIT LIGHT WITH BATTERY BACK-UP, 277V
P		EXTERIOR DECORATIVE BRACKET LIGHT, 1-LAMP, 100W, 120V
Q		BATHROOM EXHAUST FAN SEE EXHAUST FAN SCHEDULE FOR SPECIFICATIONS
R		PORCELAIN KEYLESS LIGHT FIXTURE 1 LAMP, 60W
--		DENOTES UNSWITCHED NIGHT LIGHT
--		BATTERY BACK-UP FOR EXTERIOR EMERGENCY LIGHTING
--		SINGLE POLE WALL SWITCH
--		THREE WAY WALL SWITCH
--		FOUR WAY WALL SWITCH
--		SINGLE POLE TANDEM WALL SWITCHES 1 SWITCH - 1 LAMP BALLAST 1 SWITCH - 2 LAMP BALLAST
--		THREE WAY TANDEM WALL SWITCHES 1 SWITCH - 1 LAMP BALLAST 1 SWITCH - 2 LAMP BALLAST



WALL LEGEND	
SYMBOL	DESCRIPTION
	1-HOUR RATED FIRE WALL
	3-HOUR RATED FIRE WALL

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

ELECTRICAL NOTES:

- BREAKERS SHALL HAVE "AIC" RATING GREATER THAN THE FAULT CURRENT. ELECTRICAL CONTRACTOR IS TO CONTACT POWER COMPANY FOR AVAILABLE FAULT CURRENT. SERIES RATING IS PERMISSIBLE.
- FUSES IN SERVICE DISCONNECTS SHALL BE CURRENT LIMITING TYPE.
- COORDINATE ALL HVAC WIRING WITH MECHANICAL CONTRACTOR.
- EMERGENCY LIGHTING AND EXIT SIGNS TO BE CONNECTED AHEAD OF ANY SWITCHING.
- WIRE TO BE TYPE THWN (EXTERIOR) AND TYPE THHN (INTERIOR) OR APPROVED EQUAL.
- COORDINATE LOCATION OF ALL DEVICES AND MOUNTING HEIGHTS OF RECEPTACLES WITH OWNER.
- ALL ELECTRICAL COMPONENTS ARE TO BE UL LISTED.
- ANY FIRE RATED ASSEMBLY PENETRATIONS ARE TO BE PER CODE. CONTRACTOR SHOULD REVIEW ALL FIRE RATING PENETRATIONS.
- OUTLET BOXES ON OPPOSITE SIDES OF A FIRE RATED WALL SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24". WHERE THIS PROVISION CANNOT BE MET, THE OUTLET BOX SHOULD BE ENCASED WITH FIRE-RATED GYPSUM BOARD OR EQUIPPED WITH APPROVED INTUMESCENT PUDDY PADS.
- LOW VOLTAGE CABLE, SUCH AS COMMUNICATION AND SIGNAL WIRE, SHALL BE PLENUM RATED AND SHALL BE LISTED AND LABELED AS SUCH.
- EQUIPMENT GROUND CONDUCTOR TO BE PROVIDED IN ACCORDANCE WITH NEC SECTION 250.
- ALL INTERIOR WIRING TO BE RUN IN EMT UNLESS OTHERWISE APPROVED BY ENGINEER. MC CABLE MAY BE USED FOR LIGHTING FIXTURE WHIPS AND WHERE CONCEALED AND APPROVED BY OWNER.
- EXHAUST FANS ARE TO BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. FANS TO BE WIRED BY ELECTRICAL CONTRACTOR.
- ALL EXTERIOR LIGHTING TO BE WIRED THROUGH A LIGHTING CONTACTOR AND CONTROLLED BY A PHOTOCELL AND TIMECLOCK.
- THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CONDUIT AND EQUIPMENT WITH ALL OTHER TRADES PRIOR TO BEGINNING INSTALLATION TO AVOID CONFLICTS AND INTERFERENCE WITH OTHER TRADES.
- FINAL UTILITY CONNECTIONS (GAS, ELECTRIC, WATER, ETC.) TO EQUIPMENT SHALL BE MADE BY THE CONTRACTOR INSTALLING THE EQUIPMENT REQUIRING THE UTILITIES.
- ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. THERE IS NO INTENT TO INDICATE ALL FITTINGS REQUIRED. GENERALLY, CONDUIT SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO AND PLUMB WITH WALL CONSTRUCTION.
- REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS OF WALL AND PARTITIONS AND FOR PARTITION THICKNESS AND CONSTRUCTION MATERIALS.
- THE FIRE ALARM CONTROL PANEL CIRCUIT SHALL BE DEDICATED FOR FACP POWER ONLY AND THE CIRCUIT BREAKER SHALL BE LABELED IN RED "FIRE ALARM CIRCUIT".
- FIRE ALARM CIRCUIT BREAKER SHALL BE ACCESSIBLE TO AUTHORIZED PERSONNEL ONLY BY MEANS OF A LOCKABLE BREAKER, LOCKABLE PANEL DOOR, OR LOCKABLE ELECTRICAL ROOM.
- THE LOCATION OF THE FIRE ALARM CONTROL PANEL (FACP) CIRCUIT BREAKER SHALL BE PERMANENTLY IDENTIFIED AT THE FACP.
- ROOF TOP UNITS ARE SPECIFIED WITH ON-BOARD BREAKER AND CONVENIENCE RECEPTACLES. COORDINATE WIRING REQUIREMENTS WITH MECHANICAL CONTRACTOR. VERIFY THAT MECHANICAL CONTRACTORS ARE PURCHASING THE UNITS WITH THESE OPTIONS. IF NOT, COORDINATE WITH MECHANICAL AND GENERAL CONTRACTOR TO PROVIDE UNFUSED DISCONNECTS FOR EACH UNIT AND RECEPTACLES WITHIN 25' OF ALL UNITS.
- ELECTRICAL POWER REQUIREMENTS FOR HVAC EQUIPMENT ARE BASED ON MANUFACTURER'S PUBLISHED DATA. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND/OR MECHANICAL CONTRACTOR TO CONFIRM ELECTRICAL REQUIREMENTS HAVE NOT CHANGED DUE TO EQUIPMENT SUBSTITUTIONS OR OTHER CHANGES PRIOR TO PROVIDING FINAL BID AND PRIOR TO PURCHASING PANELS, CIRCUIT WIRING AND CIRCUIT BREAKERS SERVING HVAC EQUIPMENT.
- ALL CONCEALED INTERIOR WIRING TO BE NM CABLE. EXPOSED WIRING AND WIRING LOCATED ABOVE LAY-IN CEILING TO BE IN EMT OR MC CABLE.

**ELECTRICAL SYSTEM AND EQUIPMENT
METHOD OF COMPLIANCE**

PRESCRIPTIVE PERFORMANCE ENERGY COST BUDGET

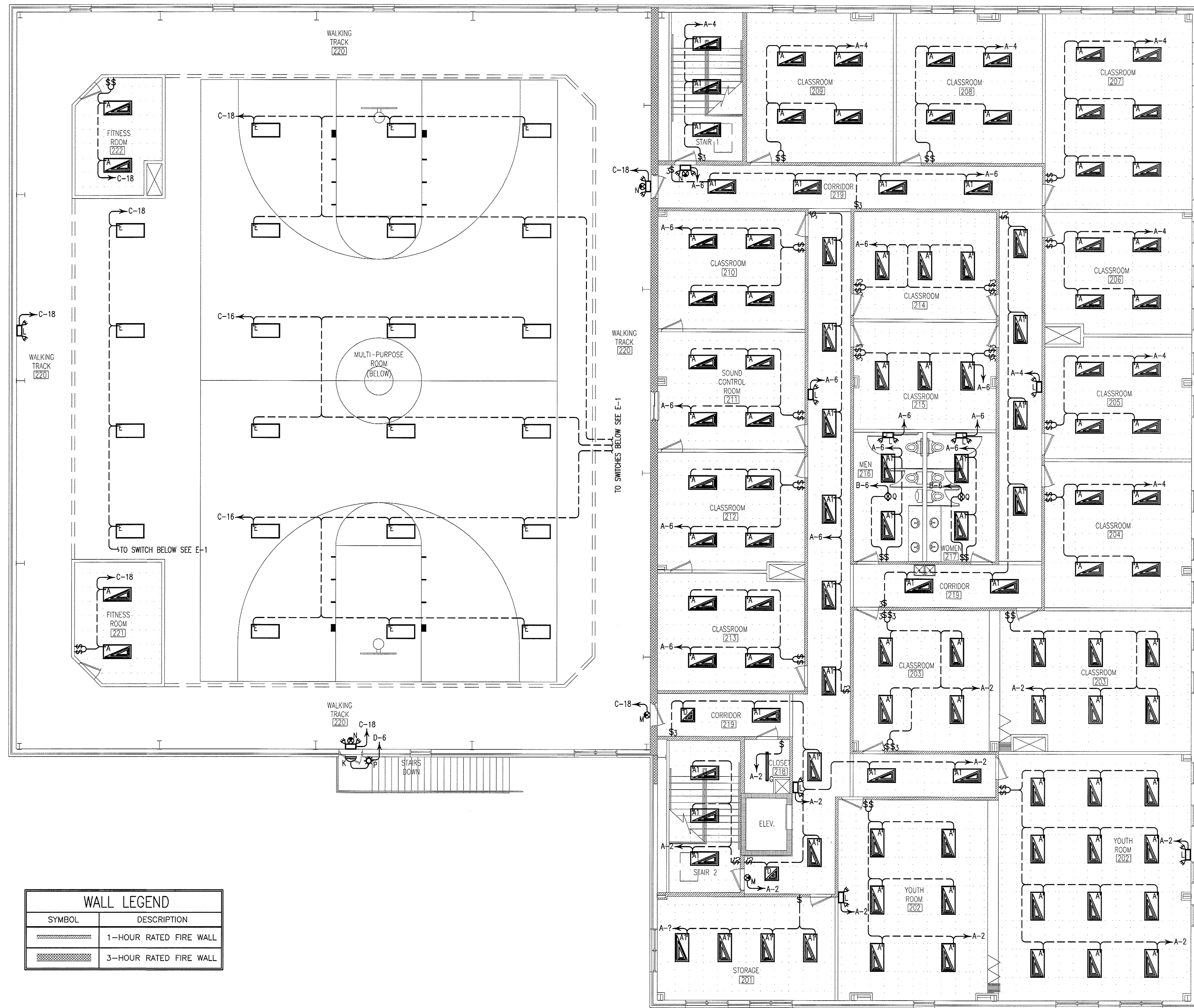
PROVIDE A STANDARD RISER DIAGRAM WHICH INDICATES DESIGNATED POINTS FOR CHECK METERING. PROVIDE A STANDARD PANEL SCHEDULE DESCRIPTION WHICH IDENTIFIES DIFFERENT ENDUSE LOADS.

LIGHTING SCHEDULE (RELIGIOUS BUILDING)
 LAMP TYPE REQUIRED IN FIXTURE: FLUORESCENT
 BALLAST TYPE USED IN FIXTURE: ELECTRONIC
 NUMBER OF LAMPS IN FIXTURE: 2
 TOTAL WATTAGE PER FIXTURE: 96
 TOTAL INTERIOR WATTAGE SPECIFIED VS ALLOWED: 1.1 W/SQ. FT. VS 1.3 W/SQ. FT.

EQUIPMENT SCHEDULES WITH MOTORS (NOT USED FOR MECHANICAL SYSTEMS)
 MOTOR HORSEPOWER: N/A HP
 NUMBER OF PHASES: 3
 MINIMUM EFFICIENCY: 88
 MOTOR TYPE: SC
 #OF POLES: 4

DESIGNER STATEMENT:
 TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE ELECTRICAL SYSTEM AND EQUIPMENT REQUIREMENTS OF NORTH CAROLINA STATE BUILDING CODE.

WALL LEGEND	
SYMBOL	DESCRIPTION
	1-HOUR RATED FIRE WALL
	3-HOUR RATED FIRE WALL



1
E-2 **SECOND FLOOR
LIGHTING PLAN**
SCALE: 1/8" = 1'-0"

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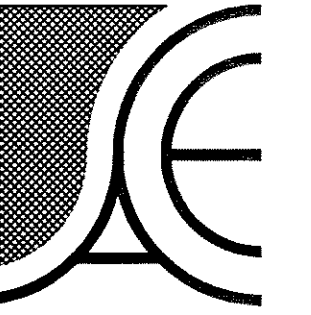
NEW BUILDING FACILITY:
**CENTRAL
BAPTIST CHURCH**
Oak Ridge, North Carolina

DRAWING NAME:
**SECOND FLOOR
LIGHTING PLAN**

NORTH CAROLINA
PROFESSIONAL
ENGINEER
SEAL
25043
8/22/09

DRAWN: MJW
CHECKED: *McLures*
DATE: 8/26/09
SCALE: AS NOTED
JOB NO.: 9076
SHEET

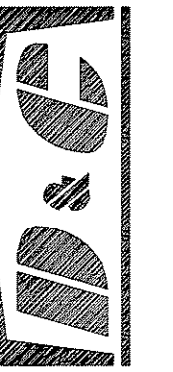
E-2



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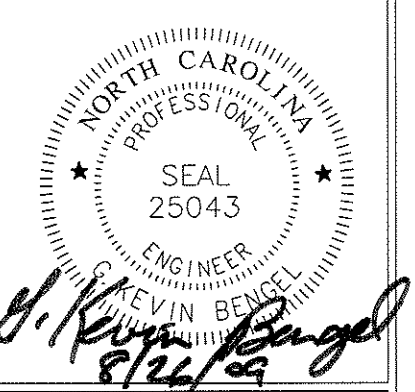
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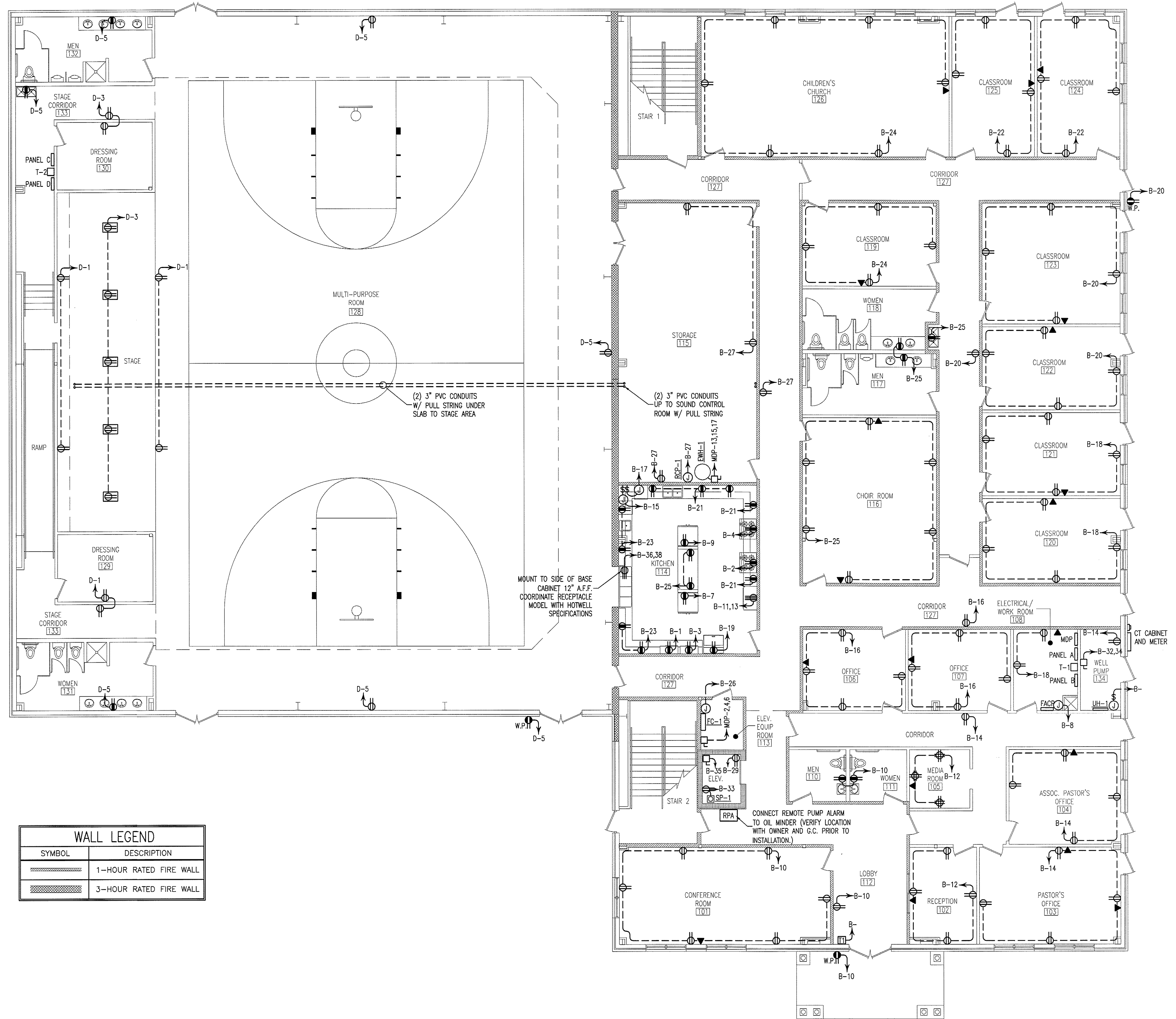
**NEW BUILDING FACILITY:
CENTRAL BAPTIST CHURCH**
Oak Ridge, North Carolina

DRAWING NAME
FIRST FLOOR ELECTRICAL PLAN



DRAWN
MJW
CHECKED
[Signature]
DATE
8/26/09
SCALE
AS NOTED
JOB NO.
9076
SHEET

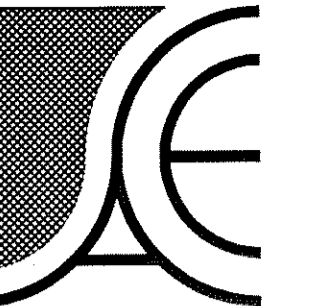
E-3



ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	120V DUPLEX RECEPTACLE
	120V DUPLEX RECEPTACLE GROUND FAULT INTERRUPTER
	120V DUPLEX RECEPTACLE GROUND FAULT INTERRUPTER WEATHER PROOF
	208V RECEPTACLE
	120V DUPLEX RECEPTACLE FLOOR MOUNTED
	120V QUAD RECEPTACLE
	UNFUSED DISCONNECT
	TELE/DATA OUTLET
	JUNCTION BOX
	PANEL
	TWO-WAY COMMUNICATION PANEL, W/BATTERY BACK-UP, CORNELL #A-4104 OR EQUAL
	TWO-WAY COMMUNICATION STATION, CORNELL #4101 OR EQUAL

WALL LEGEND	
SYMBOL	DESCRIPTION
	1-HOUR RATED FIRE WALL
	3-HOUR RATED FIRE WALL

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



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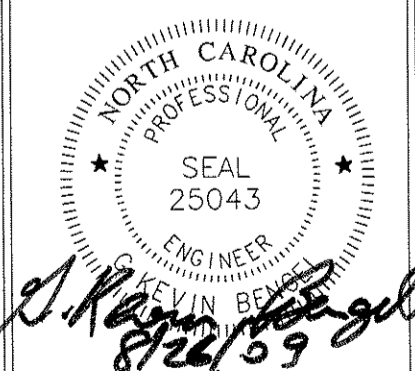
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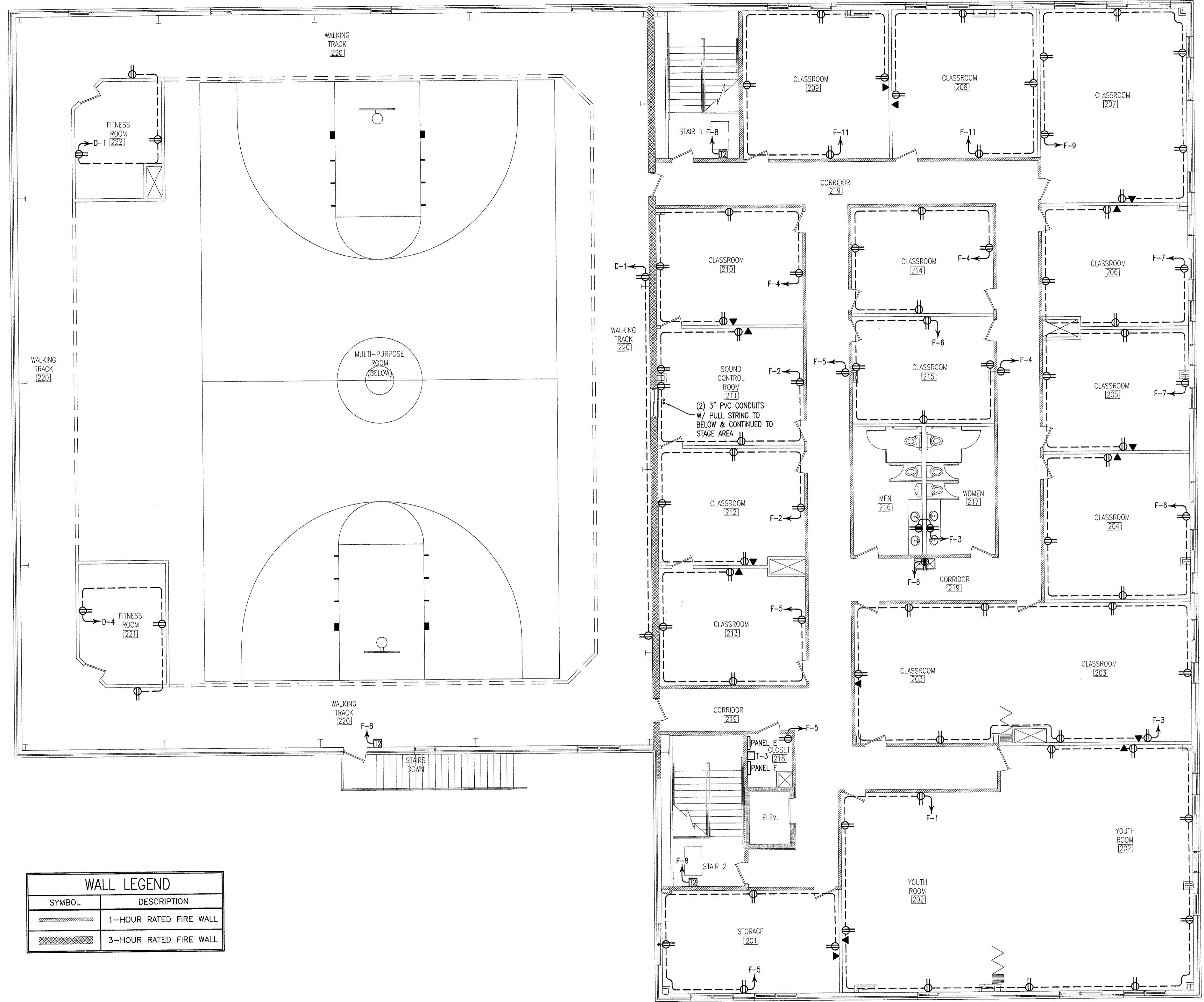
**NEW BUILDING FACILITY:
CENTRAL BAPTIST CHURCH**
Oak Ridge, North Carolina

DRAWING NAME:
SECOND FLOOR ELECTRICAL PLAN



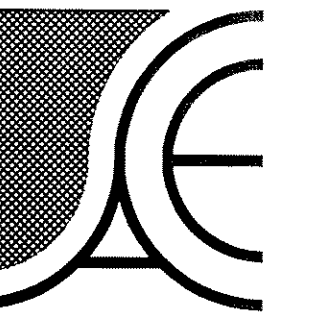
DRAWN: MJW
CHECKED: *[Signature]*
DATE: 8/26/09
SCALE: AS NOTED
JOB NO.: 9076
SHEET:

E-4



WALL LEGEND	
SYMBOL	DESCRIPTION
	1-HOUR RATED FIRE WALL
	3-HOUR RATED FIRE WALL

1
E-4
SECOND FLOOR ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"



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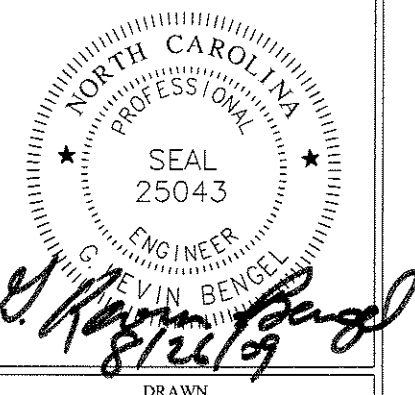
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**NEW BUILDING FACILITY:
CENTRAL BAPTIST CHURCH**
Oak Ridge, North Carolina



1
E-5
ROOF TOP ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"

DRAWING NAME
ROOF TOP ELECTRICAL PLAN



DRAWN: MJW
CHECKED: *[Signature]*
DATE: 8/26/09
SCALE: AS NOTED
JOB NO.: 9076
SHEET:

E-5

MDP										800A M.L.O. 800A BUS				
POLE NO.	BRKR NO.	TRIP AMPS	BRKR POLES	WIRE	COND	SERVES	LOAD VA	POLE NO.	BRKR NO.	TRIP AMPS	BRKR POLES	WIRE	COND	SERVES
							A#	B#	C#					
1	1	200	3	3/0	2"	PANEL A	27620	2	2	30	3	10	1/2"	ELEVATOR
3	3	-	-	-	-	-	25696	4	4	-	-	-	-	-
5	5	-	-	-	-	-	22205	6	6	-	-	-	-	-
7	7	400	3	2 SETS 3/0	2"	PANEL C	44906	8	8	400	3	2 SETS 3/0	2"	PANEL E
9	9	-	-	-	-	-	44861	10	10	-	-	-	-	-
11	11	-	-	-	-	-	44598	12	12	-	-	-	-	-
13	13	70	3	4	1"	WATER HEATER	6000	14	14	-	-	-	-	-
15	15	-	-	-	-	-	6000	16	16	-	-	-	-	-
17	17	-	-	-	-	-	6000	18	18	-	-	-	-	-
CONNECTED V.A. PER PHASE							128,370	125,541	122,147					
TOTAL AMPERES PER PHASE							463	453	441					

☒ - DENOTES BREAKER LOCK-OUT

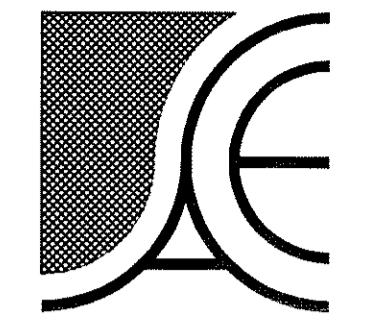
PANEL A										200A M.L.O. 200A BUS				
POLE NO.	BRKR NO.	TRIP AMPS	BRKR POLES	WIRE	COND	SERVES	LOAD VA	POLE NO.	BRKR NO.	TRIP AMPS	BRKR POLES	WIRE	COND	SERVES
							A#	B#	C#					
1	1	20	1	12	1/2"	LIGHTING (1st FLOOR)	4059	2	2	20	1	12	1/2"	LIGHTING (2nd FLOOR)
3	3	20	1	12	1/2"	LIGHTING (1st FLOOR)	4122	4	4	20	1	12	1/2"	LIGHTING (2nd FLOOR)
5	5	20	1	12	1/2"	LIGHTING (1st FLOOR)	4336	6	6	20	1	12	1/2"	LIGHTING (2nd FLOOR)
7	7	-	-	-	-	-	3464	8	8	-	-	-	-	-
9	9	-	-	-	-	-	3410	10	10	-	-	-	-	-
11	11	-	-	-	-	-	3464	12	12	-	-	-	-	-
13	13	-	-	-	-	-	3681	14	14	-	-	-	-	-
15	15	-	-	-	-	-	-	16	16	-	-	-	-	-
17	17	-	-	-	-	-	-	18	18	-	-	-	-	-
19	19	-	-	-	-	-	-	20	20	-	-	-	-	-
21	21	-	-	-	-	-	-	22	22	-	-	-	-	-
23	23	-	-	-	-	-	-	24	24	-	-	-	-	-
25	25	-	-	-	-	-	-	26	26	-	-	-	-	-
27	27	-	-	-	-	-	-	28	28	-	-	-	-	-
29	29	-	-	-	-	-	-	30	30	-	-	-	-	-
31	31	-	-	-	-	-	-	32	32	-	-	-	-	-
33	33	-	-	-	-	-	-	34	34	-	-	-	-	-
35	35	-	-	-	-	-	-	36	36	-	-	-	-	-
37	37	-	-	-	-	-	19439	38	38	90	3	2	1-1/4"	TRANSFORMER (T-1)
39	39	-	-	-	-	-	17950	40	40	-	-	-	-	-
41	41	-	-	-	-	-	15060	42	42	-	-	-	-	-
CONNECTED V.A. PER PHASE							27,620	25,696	22,205					
TOTAL AMPERES PER PHASE							100	93	80					

PANEL B										200A M.C.B. 200A MAIN				
POLE NO.	BRKR NO.	TRIP AMPS	BRKR POLES	WIRE	COND	SERVES	LOAD VA	POLE NO.	BRKR NO.	TRIP AMPS	BRKR POLES	WIRE	COND	SERVES
							A#	B#	C#					
1	1	20	1	12	1/2"	MICROWAVE	1500	2	2	20	1	12	1/2"	ELECTRIC COOKTOP
3	3	20	1	12	1/2"	MICROWAVE	1440	4	4	20	1	12	1/2"	ELECTRIC COOKTOP
5	5	-	-	-	-	SPACE	740	6	6	20	1	12	1/2"	LIGHTING/EXHAUST FANS
7	7	20	1	12	1/2"	REFRIGERATOR	780	8	8	20	1	12	1/2"	FAC
9	9	20	1	12	1/2"	FREEZER	500	10	10	20	1	12	1/2"	RECEPTACLES
11	11	50	2	6	3/4"	DOUBLE OVEN	1440	12	12	20	1	12	1/2"	RECEPTACLES
13	13	-	-	-	-	-	3609	14	14	20	1	12	1/2"	RECEPTACLES
15	15	20	1	12	1/2"	DISHWASHER	1800	16	16	20	1	12	1/2"	RECEPTACLES
17	17	20	1	12	1/2"	DISHWASHER	1500	18	18	20	1	12	1/2"	RECEPTACLES
19	19	25	1	12	1/2"	ICE MAKER	1872	20	20	20	1	12	1/2"	RECEPTACLES
21	21	20	1	12	1/2"	RECEPTACLES	1440	22	22	20	1	12	1/2"	RECEPTACLES
23	23	20	1	12	1/2"	RECEPTACLES	900	24	24	20	1	12	1/2"	RECEPTACLES
25	25	20	1	12	1/2"	RECEPTACLES	1620	26	26	20	1	12	1/2"	ELEVATOR RM. (FC-1)
27	27	20	1	12	1/2"	RECEPTACLES	138	28	28	20	1	12	1/2"	ELEVATOR RM. (CU-1)
29	29	20	1	12	1/2"	ELEV. PIT RECEPT/LIGHT*	1610	30	30	20	1	12	1/2"	UNIT HEATER (UH-1)
31	31	-	-	-	-	-	491	32	32	30	2	10	1/2"	WELL PUMP
33	33	20	1	12	1/2"	ELEV. PIT SUMP PUMP*	500	34	34	-	-	-	-	-
35	35	20	1	12	1/2"	ELEV. LIGHT & ACCES.*	2880	36	36	30	2	10	1/2"	HOT WELL
37	37	-	-	-	-	-	960	38	38	-	-	-	-	-
39	39	-	-	-	-	-	2880	40	40	-	-	-	-	-
41	41	-	-	-	-	-	1500	42	42	-	-	-	-	-
CONNECTED V.A. PER PHASE							19,439	17,950	15,060					
TOTAL AMPERES PER PHASE							162	150	126					

☒ - DENOTES LOCK-ON BREAKER

PANEL C										400A M.L.O. 400A BUS				
POLE NO.	BRKR NO.	TRIP AMPS	BRKR POLES	WIRE	COND	SERVES	LOAD VA	POLE NO.	BRKR NO.	TRIP AMPS	BRKR POLES	WIRE	COND	SERVES
							A#	B#	C#					
1	1	40	3	8	3/4"	GP-7	8764	2	2	40	3	8	3/4"	GP-8
3	3	-	-	-	-	-	8764	4	4	-	-	-	-	-
5	5	-	-	-	-	-	8764	6	6	-	-	-	-	-
7	7	40	3	8	3/4"	GP-9	8764	8	8	40	3	8	3/4"	GP-10
9	9	-	-	-	-	-	8764	10	10	-	-	-	-	-
11	11	-	-	-	-	-	8764	12	12	-	-	-	-	-
13	13	25	3	12	1/2"	GP-11	4117	14	14	20	1	12	1/2"	MULTI-PURP. RM. LIGHTING
15	15	-	-	-	-	-	3753	16	16	20	1	12	1/2"	MULTI-PURP. RM. LIGHTING
17	17	-	-	-	-	-	4117	18	18	20	1	12	1/2"	MULTI-PURP. RM. LIGHTING
19	19	-	-	-	-	-	3849	20	20	-	-	-	-	-
21	21	-	-	-	-	-	-	22	22	-	-	-	-	-
23	23	-	-	-	-	-	-	24	24	-	-	-	-	-
25	25	-	-	-	-	-	-	26	26	-	-	-	-	-
27	27	-	-	-	-	-	-	28	28	-	-	-	-	-
29	29	-	-	-	-	-	-	30	30	-	-	-	-	-
31	31	-	-	-	-	-	-	32	32	-	-	-	-	-
33	33	-	-	-	-	-	-	34	34	-	-	-	-	-
35	35	-	-	-	-	-	-	36	36	-	-	-	-	-
37	37	-	-	-	-	-	1980	38	38	45	3	6	1"	TRANSFORMER (T-2)
39	39	-	-	-	-	-	1800	40	40	-	-	-	-	-
41	41	-	-	-	-	-	1576	42	42	-	-	-	-	-
CONNECTED V.A. PER PHASE							44,906	44,861	44,598					
TOTAL AMPERES PER PHASE							162	162	161					

PANEL D										100A M.C.B. 100A MAIN				
POLE NO.	BRKR NO.	TRIP AMPS	BRKR POLES	WIRE	COND	SERVES	LOAD VA	POLE NO.	BRKR NO.	TRIP AMPS	BRKR POLES	WIRE	COND	SERVES
							A#	B#	C#					
1	1	20	1	12	1/2"	RECEPTACLES	1080	2	2	20	1	12	1/2"	RECEPTACLES
3	3	20	1	12	1/2"	RECEPTACLES	900	4	4	20	1	12	1/2"	RECEPTACLES
5	5	20	1	12	1/2"	RECEPTACLES	1260	6	6	20	1	12	1/2"	LIGHTING/EXHAUST FANS
7	7	-	-	-	-	-	540	8	8	-	-	-	-	-
9	9	-	-	-	-	-	1260	10	10	-	-	-	-	-
11	11	-	-	-	-	-	316	12	12	-	-	-	-	-
13	13	-	-	-	-	-	-	14	14	-	-	-	-	-
15	15	-	-	-	-	-	-	16	16	-	-	-	-	-
17	17	-	-	-	-	-	-	18	18	-	-	-	-	-
19	19	-	-	-	-	-	-	20	20	-	-	-	-	-
21	21	-	-	-	-	-	-	22	22	-	-	-	-	-
23	23	-	-	-	-	-	-	24	24	-	-	-	-	-
25	25	-	-	-	-	-	-	26	26	-	-	-	-	-
27	27	-	-	-	-	-	-	28	28	-	-	-	-	-
29	29	-	-	-	-	-	-	30	30	-	-	-	-	-
31	31	-	-	-	-	-	-	32	32	-	-	-	-	-
33	33	-	-	-	-	-	-	34	34	-	-	-	-	-
35	35	-	-	-	-	-	-	36	36	-	-	-	-	-
37	37	-	-	-	-	-</								

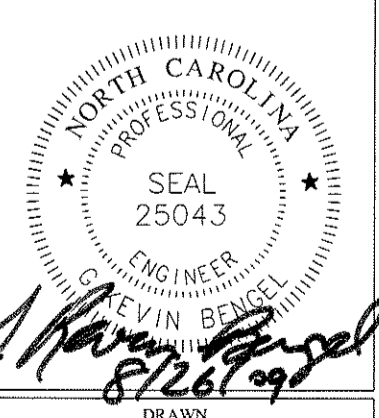


Alamance Consulting Engineers
 961-F Burlington Ave.
 Gibsonville, N.C. 27249
 Phone: (336) 449-4558
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DODSON & CHATMAN CONSTRUCTION, INC.
 3246 ANTHONY CRT. S.
 BURLINGTON, NC 27215
 PHONE: (336) 229-0539
 FAX: (336) 229-5922

NEW BUILDING FACILITY:
CENTRAL BAPTIST CHURCH
 Oak Ridge, North Carolina

DRAWING NAME
ELECTRICAL DETAILS



DESIGNED BY: MJW
 CHECKED BY: *[Signature]*
 DATE: 8/26/09
 SCALE: AS NOTED
 JOB NO.: 9076
 SHEET:

E-7

PANEL F										100A M.C.B. 100A MAIN						
208/120V, 3Ø, 4W																
POLE NO.	BRKR NO.	TRIP AMPS	BRKR POLES	WIRE	COND	SERVES	LOAD VA			POLE NO.	BRKR NO.	TRIP AMPS	BRKR POLES	WIRE	COND	SERVES
							Aφ	Bφ	Cφ							
1	1	20	1	12	1/2"	RECEPTACLES	1800			2	2	20	1	12	1/2"	RECEPTACLES
3	3	20	1	12	1/2"	RECEPTACLES	1800			4	4	20	1	12	1/2"	RECEPTACLES
5	5	20	1	12	1/2"	RECEPTACLES	1800			6	6	20	1	12	1/2"	RECEPTACLES
7	7	20	1	12	1/2"	RECEPTACLES	1440			8	8	20	1	12	1/2"	A.O.R. COMMUNICATION CENTER
9	9	20	1	12	1/2"	RECEPTACLES	1080			10	10					
11	11	20	1	12	1/2"	RECEPTACLES				12	12					
13	13									14	14					
15	15									16	16					
17	17									18	18					
19	19									20	20					
21	21									22	22					
23	23									24	24					
25	25									26	26					
27	27									28	28					
29	29									30	30					
31	31									32	32					
33	33									34	34					
35	35									36	36					
37	37									38	38					
39	39									40	40					
41	41									42	42					
CONNECTED VA PER PHASE							5,360	4,500	4,860							
TOTAL AMPERES PER PHASE							45	38	41							

