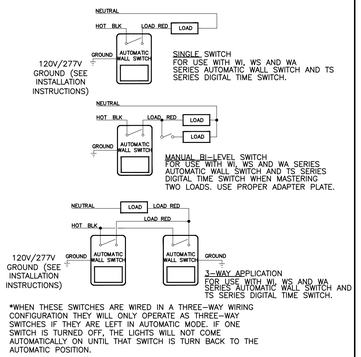
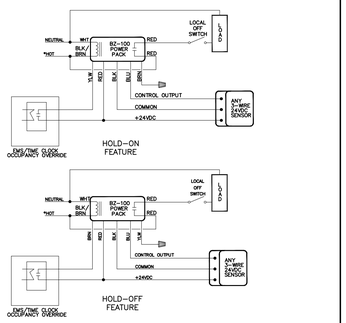


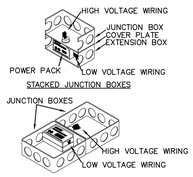
1 SINGLE POLE OCC. SENSOR SWITCH
NO SCALE



NOTE: CONNECT ONLY THE SUPPLY FOR THE VOLTAGE BEING USED. CAP UNUSED POWER SUPPLY WIRE.

BZ-100 POWER PACK USING HOLD-ON BY CONTACT/VOLTAGE

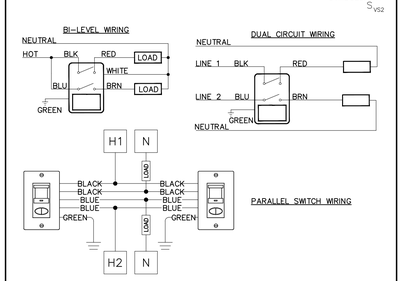
2 POWER PACK WIRING DIAGRAM
NO SCALE



NOTE:
DO NOT MOUNT POWER PACKS CLOSER THAN 6-12 INCHES FROM SENSOR. PROVIDE DOUBLE STACKED JUNCTION BOX FOR MAXIMUM VENTILATION OF POWER PACK. PROVIDE BLANK COVER. WHERE PERMITTED BY CODE AND AHJ, LEAVE (2) OPENINGS IN CONDUIT KNOCKOUT FOR VENTING OF POWER PACK. VERIFY WITH AHJ PRIOR TO KNOCKOUT REMOVAL.

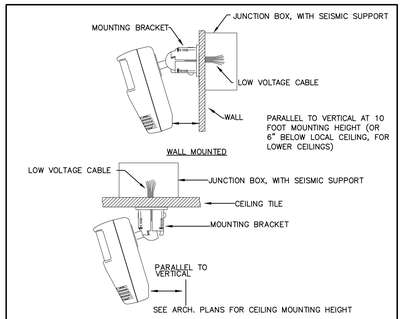
POWER PACK INSTALLED IN J-BOX

3 POWER PACK INSTALLATION
NO SCALE



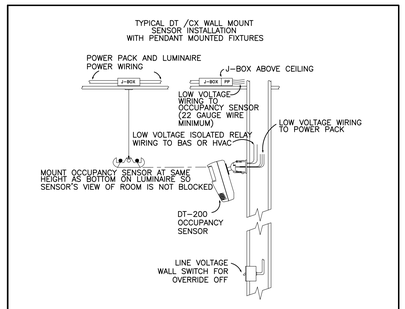
NOTES:
1. COLOR CODING AND WIRING MAY VARY PER MANUFACTURER.
2. IF SEQUENCE OF OPERATION PROVIDED, SEE SEQUENCE FOR SETTING REQUIREMENTS. OTHERWISE SET TIME AFTER NO OCCUPANCY DETECTED FOR 15 MINUTES.
3. OCCUPANCY AND/OR VACANCY SENSORS APPLY.
4. BOTH SENSORS MUST TIME OUT FOR LIGHTS TO TURN OFF.
5. SWITCHING IS LINE VOLTAGE.
6. WHEN REQUIRED CONNECT NEUTRAL TO WHITE LEAD (NEUTRAL OF SWITCH).

4 DUAL RELAY WALL SWITCH SENSORS
NO SCALE

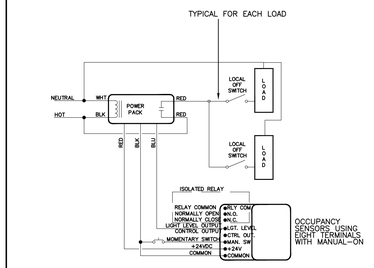


NOTES:
1. TILT SENSOR TOWARD CENTER OF ROOM FOR MAXIMUM EFFECTIVENESS.
2. CALIBRATE SENSITIVITY AND DIRECTION AFTER INSTALLATION.
3. PROVIDE WALL MOUNT BRACKET AND INSTALL AT CORNER MOST SECTION OF ROOM. PATTERN IS BASED ON CONICAL SHAPE.

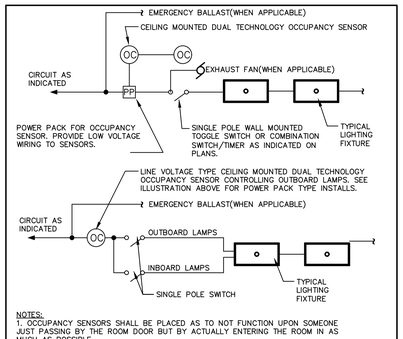
5 CORNER MOUNT SENSOR
NO SCALE



6 DT-200 PENDANT FIXTURE
NO SCALE

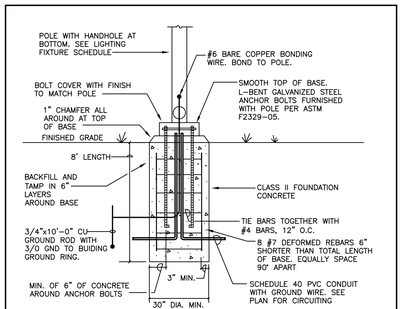


7 DT-200/300
NO SCALE



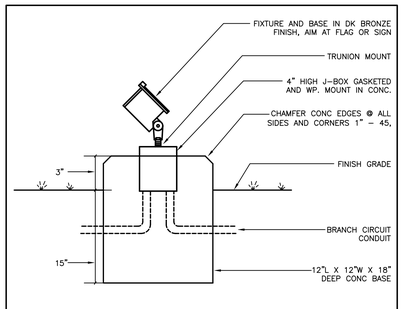
NOTES:
1. OCCUPANCY SENSORS SHALL BE PLACED AS TO NOT FUNCTION UPON SOMEONE JUST PASSING BY THE ROOM DOOR BUT BY ACTUALLY ENTERING THE ROOM IN AS MUCH AS POSSIBLE.

8 TYPICAL CEILING MOUNTED OCCUPANCY SENSOR WIRING DIAGRAMS
NO SCALE

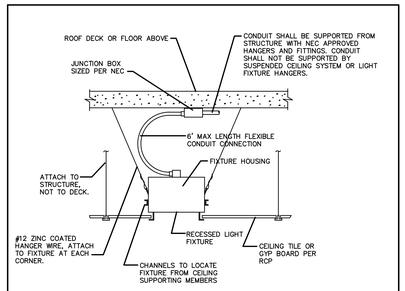


NOTES:
1. PRE-CAST ASSEMBLY OR CAST-IN-PLACE OPTIONS BOTH ARE ACCEPTABLE.
2. IF THE CAST-IN-PLACE OPTION IS CHOSEN, ALLOW 30 DAYS FOR CONCRETE BASE TO CURE BEFORE INSTALLING POLE.
3. REINFORCING STEEL TO BE GRADE 60.

9 POLE BASE DETAIL (EXTENDED)
NO SCALE

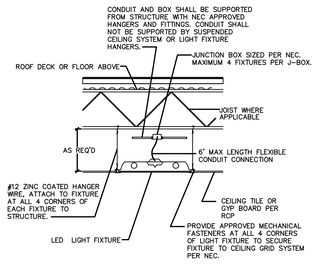


10 FLOODLIGHT DETAIL
NO SCALE



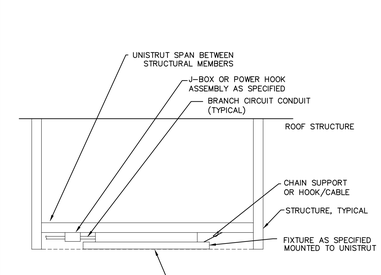
NOTES:
1. WHERE ROOF DECKING IS THE SUPPORT STRUCTURE, AND RACEWAY SYSTEM IS NOT IMC OR RMC, THE MINIMUM DISTANCE FROM ROOF DECKING SHALL BE 1.5" FOR ALL BOXES AND CONDUIT.

11 TYPICAL RECESSED DOWN LIGHT FIXTURE INSTALLATION DIAGRAM
NO SCALE



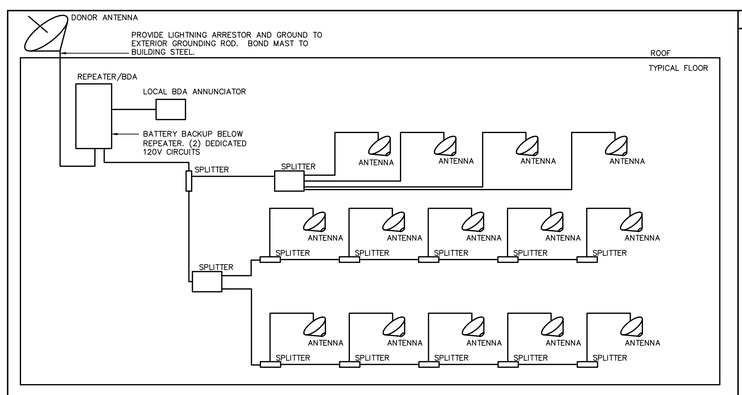
NOTES:
1. BRACE AS REQUIRED FOR TYPE IV FACILITY.

12 TYPICAL LAY-IN FIXTURE DIAGRAM
NO SCALE



NOTES:
1. ORIENTATION SHOWN IS FOR PERPENDICULAR TO FLOOR APPLICATIONS. ADJUST UNISTRUT AS REQUIRED.

13 HI-BAY FIXTURE (2X4)
NO SCALE

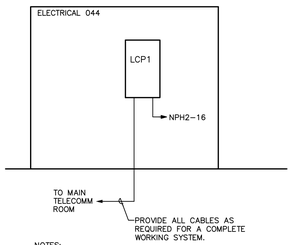


15 EMERGENCY RESPONDER SYSTEM BOOSTING RISER
NO SCALE

SYSTEM NOTES

NOTES:

1. SYSTEM IS BASED ON 800Mhz. COORDINATE WITH LOCAL EMERGENCY RESPONDERS FOR NECESSARY FREQUENCY REQUIRED.
2. SEE SPECIFICATIONS FOR ALL EQUIPMENT AND CABLING REQUIREMENTS.
3. ALL CABLING TO BE INSTALLED IN 1-1/2" CONDUIT.
4. SYSTEM BASED ON DESIGN FROM HARRIS COMMUNICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS AND EQUALS.
5. PROVIDE BATTERY BACK UP (5 MINS.) FOR MOMENTARY LOSS OF POWER. MAIN SYSTEM IS GENERATOR BACKED UP. NON GENERATOR BACKED UP SYSTEMS SHALL HAVE A MINIMUM BATTERY BACKUP OF 24 HOURS.
6. SEE SPECIFICATIONS FOR CABLING REQUIREMENTS.
7. SYSTEM SUPPLIER SHALL PROVIDE A SYSTEM SURVEY REPORT PRIOR TO PROVIDING THE SYSTEM. THIS SHALL BE CONSIDERED BASE BID FOR THE PROJECT. SIGNAL SURVEY REPORT SHALL BE TAKEN TO THE LOCAL FIRE CODE OFFICIAL AND THE LOCAL FIRE CODE OFFICIAL SHALL DETERMINE IF THE SYSTEM NEEDS TO BE INSTALLED. SIGNAL STRENGTH MEASUREMENTS SHALL BE MEASURED IN 95% OF ALL AREAS ON EACH FLOOR (100% OF ALL EGRESS AND CRITICAL AREAS). A MINIMUM SIGNAL STRENGTH OF -95dBM IS REQUIRED.
8. PROVIDE A DEDUCTIVE ALTERNATE FOR THE EMERGENCY RESPONDER SYSTEM INCLUDING ALL DEVICES, CABLING, CONDUIT, AND EQUIPMENT. SUBMITTAL AND SURVEY REPORT SHALL BE CONSIDERED BASE BID.
9. BASED ON SURVEY REPORT, DEVICES SHALL BE LOCATED TO MAXIMIZE BOOSTING SIGNAL. LOCATIONS SHALL BE COORDINATED WITH GENERAL CONTRACTOR.
10. LOCAL ANNUNCIATOR SHALL PROVIDE VISUAL AND LABELED IDENTIFICATION OF:
    - 10.1. NORMAL AC POWER.
    - 10.2. SIGNAL BOOSTER TROUBLE.
    - 10.3. LOSS OF NORMAL AC POWER.
    - 10.4. FAILURE OF BATTERY CHARGER.
    - 10.5. LOW-BATTERY CAPACITY.
    - 10.6. ANTENNA FAILURE.
11. PROVIDE FIRE ALARM PANEL CONNECTION (SUPERVISORY SIGNALS). COORDINATE REQUIRED CONNECTIONS WITH FIRE ALARM CONTRACTOR:
    - 11.1. DONOR ANTENNA MALFUNCTION.
    - 11.2. BDA FAILURE.
    - 11.3. LOW BATTERY CAPACITY.
    - 11.4. LOSS OF NORMAL AC POWER.
    - 11.5. FAILURE OF BATTERY CHARGER.



NOTES:
1. LIGHTING CONTROL RELAY PANELS TO BE WATTSTOPPER, LC&D OR EQUAL.
2. ALL LIGHTING CONTROL PANELS ARE TO BE 32 SPACE/RELAYS.

14 LIGHTING CONTOL RELAY PANEL RISER
DIAGRAMMATIC

LCP1 SCHEDULE

	RELAY #	LIGHTING CIRCUIT PANEL DESIGNATION	VOLTAGE/PHASE	FUNCTION	LAMP TYPE	NOTES
LTG - EXTERIOR EOC/EMS	a	NPH2-8	277/1	ON/OFF	LED	1,2,3
LTG - EXTERIOR 911	b	NPH2-10	277/1	ON/OFF	LED	1,2,3
LTG - SITE NORTH	c	NPH2-12	277/1	ON/OFF	LED	1,3
LTG - SITE SOUTH	d	NPH2-14	277/1	ON/OFF	LED	1,3
SPACE	e	XXXX-XX	277/1	ON/OFF	LED	
SPACE	f	XXXX-XX	277/1	ON/OFF	LED	
SPACE	g	XXXX-XX	277/1	ON/OFF	LED	
SPACE	h	XXXX-XX	277/1	ON/OFF	LED	
SPACE	i	XXXX-XX	277/1	ON/OFF/DIM	LED	
SPACE	j	XXXX-XX	277/1	ON/OFF/DIM	LED	
SPACE	k	XXXX-XX	277/1	ON/OFF/DIM	LED	
SPACE	l	XXXX-XX	277/1	ON/OFF/DIM	LED	
SPACE	m	XXXX-XX	277/1	ON/OFF/DIM	LED	
SPACE	n	XXXX-XX	277/1	ON/OFF/DIM	LED	
SPACE	o	XXXX-XX	277/1	ON/OFF/DIM	LED	
SPACE	p	XXXX-XX	277/1	ON/OFF/DIM	LED	

REMARKS
1. BASIS OF DESIGN IS 16 RELAY ACUITY GR-2400 CONTROL PANEL: GR2416 ENC SM NE1 GR2416 INT DTC DV.
2. PROVIDE WITH 8 INPUT DIGILINK CARD, EQUAL TO GR2400 DIGILINK DV D7 SME1.
3. PROVIDE A UL LISTED BARRIER SEPARATION BETWEEN NORMAL AND EMERGENCY CIRCUITS.
4. WHEN LCP HAS BEEN DE-ENERGIZED, RELAY SHALL FAIL TO THE CLOSED POSITION.

KEY NOTES:

1. PROGRAM NORMAL ON/OFF, COORDINATE AUTOMATED SCHEDULE WITH OWNER.
2. LIGHTING FIXTURES WITH EMERGENCY BATTERY PACKS AND EXIT SIGNS SHALL BE CONNECTED WITH A CONSTANT UNSWITCHED HOT LEG OF CIRCUIT.
3. OL - OUTSIDE LIGHT : ASTRONOMICAL CLOCK ON/OFF. COORDINATE SCHEDULE WITH OWNER.
4. OFL - FLAG POLE LIGHTING ; PHOTOCELL CONTROL ON/OFF.

adwarchitects
environmentsforlife
architecture planning interiors
six coliseum centre
2815 coliseum centre drive, suite 500
charlotte, north carolina 28217
t] 704 379 1919
f] 704 379 1920
www.adwarchitects.com

SAMPSON COUNTY 911 & ES FACILITIES

CLINTON, NORTH CAROLINA

CONSTRUCTION DOCUMENTS

ELECTRICAL DETAILS

DATE 12.04.2020
PROJECT NO 20003
REVISIONS
NUM. DATE DESCRIPTION:

THIS DRAWING IS THE PROPERTY OF ADW ARCHITECTS, P.A. AND SHALL NOT BE REPRODUCED OR COPIED IN WHOLE OR IN PART. IT SHALL NOT BE USED ON ANY OTHER PROJECT OR GIVEN TO ANY OTHER COMPANY OR AGENCY WITHOUT THE CONSENT OF ADW ARCHITECTS, P.A.

SEAL
NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 028297 ENGINEER BRANDON L. MILLER 12/04/2020

SHEET NUMBER E604