

LEGEND:

LIGHTING FIXTURES:

UPPERCASE LETTER ADJACENT TO FIXTURE DENOTES DESIGNATION PER THE LIGHTING FIXTURE SCHEDULE. LOWER CASE LETTER DENOTES SWITCHLEG. THE RESPECTIVE SWITCH WILL HAVE THE SAME DESIGNATION. NUMERAL DENOTES BRANCH CIRCUIT CONNECTION. EMERGENCY FIXTURES SHALL HAVE FACTORY INSTALLED INTERNAL BATTERIES, PER SPECIFICATIONS. NL SUFFIX ADJACENT TO FIXTURE TYPE DENOTES NIGHT LIGHT. DO NOT SWITCH THESE FIXTURES.

NON-EMERGENCY	EMERGENCY		
		LIGHTING FIXTURE: LINEAR FLUORESCENT	
		LIGHTING FIXTURE: FLUORESCENT STRIP	
		DOWNLIGHT/SCONCE FIXTURE	
		DIRECTIONAL FIXTURE: EMERGENCY TYPE	
		EXIT/AREA OF REFUGE LIGHT: UNIVERSAL MTD.	

WIRING DEVICES:

NUMERAL ADJACENT TO DEVICE DENOTES BRANCH CIRCUIT CONNECTION. SUBSCRIPTS ADJACENT TO DEVICES INDICATE:

C	MOUNT ABOVE COUNTERTOP OR BACKSPLASH, 9" ABOVE WORK SURFACE TO CENTER.
xx"	MOUNT DEVICE AT HEIGHT INDICATED.
WP	PROVIDE WEATHER-PROOF COVER.
MF	DEVICE INSTALLED IN MODULAR FURNITURE BASE
TV	MOUNT DEVICE AT 78" AFF, ADJACENT TO TV RECEPTACLE

RECEPTACLES:

NOMINAL MOUNTING HEIGHT OF RECEPTACLES SHALL BE 18" TO CENTER, UNO. IF APPLICABLE, ADJUST SO DEVICE COVER IS IN THE CENTER OF MASONRY COURSE NEAREST THAT HEIGHT. THE HEIGHT ESTABLISHED SHALL GOVERN FOR ALL BOX INSTALLATIONS, WHERE INSTALLED IN MASONRY OR FRAMED WALLS.

	RECEPTACLE: DUPLEX
	RECEPTACLE: DUPLEX, CEILING MOUNTED
	RECEPTACLE: GROUND-FAULT-INTERRUPTING-TYPE
	RECEPTACLE: QUADRUPLEX
	IN-SLAB FLOOR BOX: SUBSCRIPT INDICATES TYPE; 'A' - TWO (2) DUPLEX RECEPTACLES & PROVISIONS FOR TELECOMMUNICATIONS OUTLETS 'B' - THREE (3) DUPLEX RECEPTACLES & PROVISIONS FOR TELECOMMUNICATIONS OUTLETS
	RECEPTACLE: SPECIAL PURPOSE, COORDINATE NEMA RATING WITH SPECIFIED EQUIPMENT
	ELECTRIC WATER COOLER POWER CONNECTION

BRANCH CIRCUITS:

CONDUCTOR COUNTS ARE SHOWN ON HOMERUNS ONLY. CONTRACTOR SHALL DETERMINE COUNTS FOR INTERMEDIATE RUNS BASED ON THE MANNER IN WHICH CIRCUIT ELEMENTS ARE CONNECTED. REFER TO SPECIFICATIONS FOR SPECIAL REQUIREMENTS.

	BRANCH CIRCUIT: CONCEALED
	BRANCH CIRCUIT: CONCEALED IN FLOOR SLAB
	'HOMERUN' TO PANEL: NUMBER OF HASH MARKS INDICATE QUANTITY OF NO. 12 AWG UNGROUNDED CONDUCTORS IN 3/4" RACEWAY. GROUNDED CONDUCTORS (NEUTRALS) ARE NOT SHOWN - ONE DEDICATED NEUTRAL IS REQUIRED FOR EACH UNGROUNDED CONDUCTOR INSTALLED, SEE SPECIFICATIONS. EACH CONDUCTOR SHALL BE NO. 12 AWG UNLESS NOTED OTHERWISE.

ELECTRICAL EQUIPMENT:

REFER TO ONE-LINE DIAGRAM AND EQUIPMENT CONNECTION SCHEDULE FOR LOAD DATA USED AS THE BASIS OF DESIGN AND REQUIRED CONNECTIONS. VERIFY LOAD AND LOCATION WITH EQUIPMENT PURCHASED AND INSTALLER.

	FAN LOAD
	PUMP LOAD
	MOTOR LOAD
	SM SWITCH: MOTOR RATED, WITHOUT OVERLOAD PROTECTION
	Ss SWITCH: MOTOR RATED, WITH OVERLOAD PROTECTION
	NON-FUSIBLE DISCONNECT SWITCH
	COMBINATION MAGNETIC MOTOR STARTER AND DISCONNECT SWITCH, NEMA SIZE 1, UNO.
	PANELBOARD: LIGHTING-TYPE, SURFACE MOUNTED
	EQUIPMENT AS NOTED, SEE ABBREVIATION LIST, THIS SHEET
	PHOTOCELL: LOCATE UNDER EAVES, FACING NORTH, AVOID ANY OTHER OUTSIDE LIGHT SOURCE

MISCELLANEOUS COMPONENTS:

	JUNCTION BOX: MOUNTED ABOVE CEILING
	JUNCTION BOX: WALL MOUNTED
	COMMUNICATIONS BACKBOARD IN ROOM 107: 3/4" THICK CERTIFIED FIRE RATED PLYWOOD, 8' HIGH, LENGTH AS SHOWN
	GROUND ROD WITH ENCLOSURE
	CONNECTION TO GROUNDING ELECTRODE
	CIRCUIT BREAKER: TRIP/POLES INDICATED

SWITCHES:

MOUNTING HEIGHT OF SWITCHES SHALL BE 48" NOMINAL, ADJUSTED IN THE SAME MANNER AS SPECIFIED ABOVE, FOR RECEPTACLES. LOWER CASE LETTER INDICATES SWITCHLEG CONNECTION. THE RESPECTIVE FIXTURE(S) WILL HAVE THE SAME DESIGNATION.

S	SWITCH: SINGLE-POLE
Ss	SWITCH: THREE-WAY TYPE
SA	SWITCH: SUBSCRIPT INDICATES CORRESPONDING FIXTURES THAT SWITCH CONTROLS
Sk	SWITCH: KEY-OPERATED
So	SWITCH: OVERRIDE
SS	SWITCH: SINGLE-POLE, PAIRED FOR "INBOARD-OUTBOARD" SWITCHING OF LIGHTS
OS	DUAL TECHNOLOGY OCCUPANCY SENSOR, CEILING MOUNTED
OS	DUAL TECHNOLOGY OCCUPANCY SENSOR, CORNER MOUNTED
OS	DUAL TECHNOLOGY OCCUPANCY SENSOR, WALL MOUNTED 48" AFF

FIRE ALARM:

	FIRE ALARM MANUAL PULL-STATION: WALL MTD. 48" AFF
	FIRE ALARM ANNUNCIATOR, AUDIBLE/VISIBLE-TYPE: WALL MTD. 80" AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER
	FIRE ALARM ANNUNCIATOR, VISIBLE-ONLY-TYPE: WALL MTD. 80" AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER
	SMOKE DETECTOR: CEILING MOUNTED
	HEAT DETECTOR: CEILING MTD. RATE COMPENSATION TYPE (160 F - 170 F)
	SMOKE DETECTOR, DUCT-TYPE AT EQUIPMENT INDICATED
	CONTROL MODULE, FOR DEVICE AS INDICATED
	MONITOR MODULE, FOR DEVICE AS INDICATED
	MAGNETIC DOOR CONTACT

TELECOMMUNICATIONS:

OUTLETS SHALL BE INSTALLED AT THE SAME HEIGHT AS CORRESPONDING POWER OUTLETS, UNO.

	TELECOMMUNICATIONS OUTLET: x DESIGNATES NUMBER OF RJ-45 JACKS, CATEGORY 6 RATED FOR DATA(D), y DESIGNATES NUMBER OF RJ-45 JACKS FOR VOICE(T). PROVIDE 1" CONDUIT FROM OUTLET TO NEAREST CABLE TRAY.
	TELECOMMUNICATIONS OUTLET: CEILING MOUNTED CONNECTION TO PROJECTOR;
	TELEPHONE OUTLET, 48" A.F.F., U.N.O., AND 6" AWAY FROM DOOR FRAME, SINGLE GANG BOX WITH RJ-45 JACK DEVICE PLATE. PROVIDE 1" CONDUIT FROM OUTLET TO ABOVE ACCESSIBLE CEILING.
	19"W x 84"H EIA/TIA RACK WITH VERTICAL WIRE MANAGEMENT CHANNELS
	CONDUIT SLEEVE: NUMBER & SIZE, 2-2" TYP., UNO
	CENTER HUNG CABLE TRAY, 12" WIDE x 3" DEEP
	CABLE TELEVISION OUTLET & TYPE F CONNECTOR: VERIFY MOUNTING HEIGHT W/ ARCHITECTURAL ELEVATIONS, ADJACENT TO RECEPTACLE
	SPEAKER: 8" CONE TYPE CEILING MOUNTED SPEAKER. CONNECTED TO CORRIDOR SPEAKERS IN EXISTING SCHOOL. PROVIDE SAME CABLING AS EXISTING.

ABBREVIATIONS:

A	AMPERES
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLER UNIT
B	BOILER
BFG	BELOW FINISHED GRADE
C	CONDUIT
DAH	DUCTLESS AIR HANDLER
DHP	DUCTLESS HEAT PUMP
EF	EXHAUST FAN
FC	FAN COIL
G	GROUND
GFI	GROUND-FAULT INTERRUPTING
HP	HORSE POWER
HWCP	HOT WATER CIRCULATING PUMP
MCA	MINIMUM CIRCUIT AMPS
MIN	MINIMUM
MOCp	MAXIMUM OVERCURRENT PROTECTION
No.	NUMBER
NTS	NOT TO SCALE
P	PUMP
RGS	RIGID GALVANIZED STEEL
SF	SUPPLY FAN
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP	TYPICAL
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
V	VOLTAGE
W	WATTAGE
W/	WITH
WH	WATER HEATER
WP	WEATHER PROOF

INTERGRATED COMM. SYSTEM NOTES

- T.V, TELEPHONE, DATA AND CLOCK SYSTEMS SHALL BE A FULLY PRE-WIRED INSTALLATION. CABLING ABOVE CEILING IN CABLE TRAY SHALL BE PLENUM RATED.
- STUB-UPS TO BE FITTED WITH PROTECTIVE BUSHINGS.
- MINIMUM RADIUS OF METAL CONDUITS BENDS TO CENTER OF CONDUIT.
- SPECIAL SYSTEMS WIRING WHERE NOT IN CABLE TRAY SHALL BE RUN IN CONDUIT BEHIND WALLS AND IN EXPOSED AREAS.
- PRIOR TO ANY EXCAVATIONS, CONTRACTOR SHALL LOCATE EXISTING UNDERGROUND UTILITIES.

GENERAL NOTES:

- REFER TO THE SPECIFICATIONS FOR WIRING METHODS. BRANCH CIRCUIT RATINGS SHALL BE BASED ON OVERCURRENT DEVICE RATINGS SHOWN IN THE PANEL SCHEDULES AND THE FEEDER SCHEDULES.
- REFER TO THE ELECTRICAL PANELBOARD SCHEDULES AND EQUIPMENT RATINGS & CONNECTIONS SCHEDULE FOR VOLTAGE, BRANCH CIRCUIT REQUIREMENTS, BREAKER SIZES AND OTHER RELATED ELECTRICAL EQUIPMENT TO BE PROVIDED AND/OR INSTALLED BY THE ELECTRICAL CONTRACTOR.
- THE EXISTING SCHOOL DOES NOT HAVE MASS NOTIFICATION. THEREFORE THE BUILDING ADDITION WILL NOT CONTAIN A MASS NOTIFICATION SYSTEM, UNLESS DIRECTED OTHERWISE.



DATE	25 JAN 2010
DESIGNED BY: IDM	WRL SOLICITATION NO.: W912N1-09-R-0018
DWN BY: IDM	CONTRACT NO.:
CHKD BY: WRL	FILE NAME: BRHE-01
SUBMITTED BY:	SIZE: 34x22
FILE NAME: BRHE-01	PLOT SCALE: NONE
CATEGORY CODE: 730-46-01	PLOT DATE:
SYMBOL	DESCRIPTION

U. S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
SAVANNAH DISTRICT

LSSP ASSOCIATES, LTD.
205 1/2 KING STREET
CHARLESTON, SC 29401

ALBRITTON, JUNIOR HIGH SCHOOL ADDITION
FT BRAGG NORTH CAROLINA

**ELECTRICAL
LEGEND & NOTES**

PLATE REFERENCE NUMBER
E-001
SHEET 86