

HENDERSON COUNTY AND BLUE RIDGE COMMUNITY COLLEGE

BRCC - PUBLIC SAFETY TRAINING FACILITY

180 W CAMPUS DR. FLAT ROCK, NC 28731



CLARKNEXSEN

301 College Street, Suite 300 Asheville, North Carolina 28801 828·232·0608 www.clarknexsen.com

3. SIDE WALL EXHAUST GRILLE. MOUNT AT 11' ABOVE FINISHED FLOOR.

4. PROVIDE DRUM LOUVER. BALANCE TO 380 CFM. REFER TO MARK "A" IN AIR DEVICE SCHEDULE FOR ADDITIONAL INFORMATION. TYPICAL OF 12 DRUM

5. EXHAUST FAN SHALL RUN CONTINUOUSLY WHEN THE BUILDING IS

6. TRANSFER AIR TO BATHROOM SPACE. PROVIDE LINED DUCTWORK.

7. PROVIDE ACOUSTICAL LINED DUCTWORK FOR THE FIRST 20' OF SUPPLY

8. PROVIDE DRY WELL FOR CONDENSATE DRAIN. SEE DETAIL

9. PROVIDE CONCRETE PAD, 6" LARGER THAN UNIT. EXTEND PAD TO

11. SUPPORT EXPOSED SPIRAL DUCTWORK WITH CABLE SUPPORTS. 12. EXISTING CONDENSING UNIT TO BE RELOCATED SEE NOTE 13 FOR NEW

15. INTEGRATE CONTROLS AND PROVIDE GRAPHICS FOR EXISTING BUILDING'S

1 12/7/2020 ADDENDUM #1

SUBMITTAL

11/17/2020

REVISIONS

CONSTRUCTION DOCUMENTS

11/17/2020

FLOOR PLAN

MH101

DESIGN: WAW
DRAWN: WAW
REVIEW: RHF

LEGEND S = SANITARY C = FINISHED AREA

D = LATEX MASTIC/THIN SET TILE E = MECHANICAL ROOM M = ADJUSTABLE FUNNEL STRAINER S = OIL/SEDIMENT INTERCEPTOR

NOTES:

SD = STORM DRAIN

REFER TO DRAWINGS FOR LOCATION OF FLOOR DRAIN.

	SHOCK	ABSOR	BER SC	HEDULI	Ξ		
P.D.I. SYMBOL	AA	Α	В	С	D	E	F
FIXTURE UNIT RATING	1-3	1-11	12-32	33-60	61-113	114-154	155-330

NOTES:

MANUFACTURING COMPANY; J.R. SMITH, JOSAM, ZURN, OR APPROVED EQUAL IS ACCEPTABLE.

	E	ELECTRIC	VERTICAL	_ STOF	RAGE WATER H	EATER
MARK	CAPACITY GALLON	RECOVERY AT 100°F GPH	TYPE	kW	VOLTAGE/PHASE	LOCATION
WH-1	80	186	ELECTRIC	45	208/3	MECH ROOM 107
NOT		_	· · · · · · · · · · · · · · · · · · ·			

NOTES:

REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL REQUIREMENTS

BASIS OF DESIGN: MANUFACTURER: BRADFORD WHITE; MODEL CEHD80-45A208-3CF OR APPROVED EQUAL.

			EXPANSI	ON TA	ANK SCHE	EDULE		
MARK	WATER HEATER VOLUME	SUPPLY PRESSURE PSI	AIR PRE-CHARGE PSI	TEMP °F	EXPANSION FACTOR	ACCEPTANCE VOLUME GALLONS	TOTAL VOLUME GALLONS	REMARKS
ET-1	80	60	40	140	0.0109	0.88	8.65	1 AND 2

NOTES:

- BASIS OF DESIGN: MANUFACTURER: WATTS WATER TECHNOLOGIES, MODEL: DELTA-20 OR APPROVED
- REFER TO MANUFACTURER LITERATURE FOR INSTALLATION OF EXPANSION TANK AND
- SPECIFICATIONS FOR MANUFACTURER.

THERMOSTATIC TYPE PRESSURE BALANCE MIXING VALVE SCHEDULE

MARK	PIF	PING	PRESSURE DROP	CAPACITY	Т	EMPERA	TURE	REMARKS
IVIAIXIX	INLET	OUTLET	PSI	GPM	COLD	HOT	TEMPERED	
MV-1	3/8	3/8	10	0.5	60°F	130°F	110°F	1, 3, AND 4
MV-2	1 1/4	1 1/4	10	27	60°F	140°F	130°F	2 AND 5
MV-3	1/2	1/2	10	5	60°F	130°F	85°F	3 AND 6

NOTES:

- ASSE 1070 LISTED. DESIGN BASIS: POWERS LFG480-10 OR APPROVED EQUAL. 2. ASSE 1017 LISTED. DESIGN BASIS: POWERS LFMM431 OR APPROVED EQUAL.
- ASSE 1071 LISTED. DESIGN BASIS: POWERS ES150 OR APPROVED EQUAL.
- EXPOSED, ROUGH BRONZE CHROME PLATED FINISH, SIDE CONNECTIONS, TOP OUTLET.
- 4. MINIMUM FLOW SHALL BE 0.25 GPM.
- 5. MINIMUM FLOW SHALL BE 3.00 GPM.
- 6. MINIMUM FLOW SHALL BE 1.00 GPM.

ATION
OOM 107

NOTES:

- PUMP AND MOTOR SHALL BE LISTED BY A NATIONAL TESTING LABORATORY.
- PUMP BASE, IMPELLER, AND PUMP HOUSING SHALL BE NSF61 APPROVED STAINLESS STEEL. 3. PUMP (RP-1); INTEGRAL VFD TO MAINTAIN CONSTANT RETURN TEMPERATURE. SET POINT 135°F.
- BASIS OF DESIGN: GRUNDFOS MAGNA 3 32-60FN WITH CONTROL CONNECTION OR APPROVED
- PROVIDE TEMPERATURE SENSOR IN SUCTION PIPING FOR DOMESTIC HOT WATER RETURN PIPING. CONNECT TO INTEGRAL VFD. SET POINT 140°F.

		PLUM	1BING	FIXT	URE S	SCHE	DULE			
MADIC	FIVELIDE	DELL	DCWS	DHWS	TOTAL	CON	NECTIO	N PIPE (SIZE	DEMARKS
MARK	FIXTURE	DFU	WSFU	WSFU	WSFU	WASTE	VENT	DCWS	DHWS	REMARKS
P-1	WATER CLOSET, FLUSH VALVE, PUBLIC	4.00	10.00	-	10.00	4.00	2.00	1.00	-	1
P-2	WATER CLOSET, FLUSH VALVE, PUBLIC	4.00	10.00	-	10.00	4.00	2.00	1.00	-	1 AND 8
P-3	URINAL, PUBLIC	2.00	5.00	-	5.00	2.00	1.50	0.75	-	2 AND 8
P-4	LAVATORY, PUBLIC	1.00	1.50	1.50	2.00	1.25	1.50	0.375	0.375	3
P-5	LAVATORY, PUBLIC	1.00	1.50	1.50	2.00	1.25	1.50	0.375	0.375	3 AND 8
P-6	SHOWER, PUBLIC	2.00	3.00	3.00	4.00	2.00	1.50	0.50	0.50	4
P-7	SHOWER, PUBLIC	2.00	3.00	3.00	4.00	2.00	1.50	0.50	0.50	4 AND 8
P-8	SERVICE SINK	2.00	2.25	2.25	3.00	3.00	1.50	0.50	0.50	5
P-9	ELECTRIC WATER COOLER	0.50	0.25	-	0.25	1.25	1.50	0.375	-	6 AND 8
P-10	WALL HYDRANT	-	-	-	-	-	-	0.50	-	
P-11	EMERGENCY EYEWASH	1.00	1.50	1.50	2.00	1.25	1.50	0.500	0.500	7 AND 8
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NOTES:

- WALL HUNG, VITREOUS CHINA, SIPHON JET, SENSOR OPERATED FLUSH VALVE, 1.28 GPF MAXIMUM. WALL HUNG, VITREOUS CHINA, WASHDOWN, SENSOR OPERATED FLUSH VALVE, 0.125 GPF
- DROP-IN COUNTER-TOP, VITREOUS CHINA, OVAL BASIN, 17-1/2-INCH X 20-1/4-INCH, 3-HOLE 4" O.C., SENSOR OPERATED CONTROL FAUCET WITH 0.35 GPM MAXIMUM LAMINAR FLOW DEVICE. PROVIDE ASSE 1070 LISTED POINT OF USE THERMOSTATIC TYPE PRESSURE BALANCE MIXING VALVE (MV-1)
- REMOVABLE SPRAYER HEAD ASSEMBLY ON 5 FOOT FLEXIBLE HOSE ON 30-INCH SLIDE BAR. SHOWERHEAD WITH 1.5 GPM MAXIMUM. MOUNT MIXING VALVE AT 36-INCHES AND DIVERTER VALVE AT 44-INCHES ABOVE FINISHED FLOOR. PROVIDE PRESSURE-BALANCED ASSE 1016 THERMOSTATIC
- MIXING VALVE. FLOOR MOUNTED, TERRAZZO, 36-INCH X 24-INCH RECTANGLE, MOP SERVICE BASIN, 12 INCH DEPTH WITH 6 INCH DROP FRONT, STAINLESS STEEL CAPS ON ALL CURBS, HOSE & HOSE BRACKET, SERVICE FAUCET, CHROME PLATED WITH VACUUM BREAKER, INTEGRAL CHECK STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK AND 3/4" HOSE THREAD ON SPOUT. BODY INLETS 8" CENTERS, FOUR ARM HANDLES.
- WALL HUNG, SELF CONTAINED, DUAL HEIGHT, STAINLESS STEEL, MECHANICALLY COOLED. WALL HUNG, STAINLESS STEEL 11" ROUND BOWL, INVERTED DIRECTIONAL LAMINAR FLOW, CAST-ALUMINUM CHROMATE PROTECTED WALL BRACKET, DRAIN TRAP, TAILPIECE, YELLOW PLASTIC POP-OFF DUST COVER FOR EYEWASH, HEAD, TAILPIECE AND TRAP, AND UNIVERSAL SIGN. PROVIDE ASSE 1071 THERMOSTIC TYPE MIXING VALVE (MV-3).

BARRIER-FREE ADA INITIATIVE REQUIREMENTS.

PLUN	ЛВIN	NG FIXTUR	RE UNIT	CALCULATION

			DRAII FIXTURI	NAGE E UNITS				TIC WATE RE UNITS		
MARK	FIXTURE	QTY	EACH	TOTAL	COLD WATER EACH	COLD WATER TOTAL	HOT WATER EACH	HOT WATER TOTAL	WATER SUPPLY EACH	WATER SUPPLY TOTAL
P-1	WATER CLOSET, FLUSH VALVE, PUBLIC	2	4.00	8.00	10.00	20.00	-	-	10.00	20.00
P-2	WATER CLOSET, FLUSH VALVE, PUBLIC	3	4.00	12.00	10.00	30.00	-	-	10.00	30.00
P-3	URINAL, PUBLIC	1	2.00	2.00	5.00	5.00	-	-	5.00	5.00
P-4	LAVATORY, PUBLIC	2	1.00	2.00	1.50	3.00	1.50	3.00	2.00	4.00
P-5	LAVATORY, PUBLIC	2	1.00	2.00	1.50	3.00	1.50	3.00	2.00	4.00
P-6	SHOWER, PUBLIC	4	2.00	8.00	3.00	12.00	3.00	12.00	4.00	16.00
P-7	SHOWER, PUBLIC	4	2.00	8.00	3.00	12.00	3.00	12.00	4.00	16.00
P-8	SERVICE SINK	1	2.00	2.00	2.25	2.25	2.25	2.25	3.00	3.00
P-9	ELECTRIC WATER COOLER	1	0.50	0.50	0.25	0.25	-	-	0.25	0.25
P-10	WALL HYDRANT	2	ı	-	ı	-	-	-	ı	-
P-11	EMERGENCY EYEWASH	1	-	-	-	-	-	_	-	-
				44.50		87.50		32.25		98.25
DOMES	STIC WATER SUPPLY				98.25	WSFU =	73.00 GF	PM.		

DOMESTIC WATER CALCULATIONS

4" DRAINAGE

87.50 WSFU = 67.50 GPM

32.25 WSFU = 19.60 GPM

2-1/2" DCWS ~ 1-1/2" DHWS

			SIVILOTIO VVI CIT OF LOGE	(1101 1 0
	GF	PM	FLUSH VALVE	FLUSH TANK
SIZE	FLUSH VALVE	FLUSH TANK	WSFU	WSFU
1/2"	2	2	-	0.25
3/4"	4	4	-	1
1"	9	9	-	4
1-1/4"	15	15	5	10
1-1/2"	24	24	9	34
2"	51	51	53	137
2-1/2"	92	75	222	250
3"	145	120	500	495

NOTES:

DOMESTIC COLD WATER SUPPLY

DOMESTIC HOT WATER SUPPLY

PIPE SIZE:

1. FIXTURE UNIT VALUES BASED ON THE INTERNATIONAL PLUMBING CODE SIZING CHARTS. 2. MAX VELOCITY FOR HOT WATER - 5 FT/SECOND, FOR COLD WATER 6 FT/SECOND.

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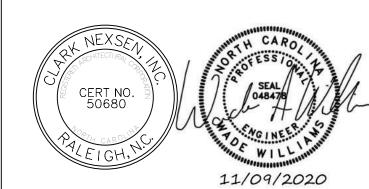
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DESIGNER

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SUBMITTAL

CONSTRUCTION DOCUMENTS

1 12/7/2020 ADDENDUM #1

PLUMBING SCHEDULES

P-501

SYMBOL DESCRIPTION LIGHTING PROVIDE **EXISTING EXISTING EQUIPMENT CONNECTIONS** LIGHTING FIXTURE TYPE, SEE LIGHTING FIXTURE SCHEDULE ON SHEET EL101. JUNCTION BOX LED LIGHTING FIXTURE (INDICATES BRACKET, WALL MOUNTED FIXTURES). DISCONNECT SWITCH. 600V IN NEMA 1 ENCLOSURE UON. SIZE AND TYPE AS NOTED. DISCONNECT SWITCH PROVIDED INTEGRAL WITH EQUIPMENT. LED LIGHTING FIXTURE ON EMERGENCY CIRCUIT. PROVIDE 90 MINUTE BATTERY BACK. (—INDICATES BRACKET, WALL VARIABLE FREQUENCY CONTROLLER CONNECTION (DRIVE MOUNTED FIXTURES). FURNISHED WITH EQUIPMENT) EXIT LIGHTING FIXTURE. ARROW, WHEN USED, INDICATES

> 120 VOLT SINGLE POLE TOGGLE SWITCH, MOUNTED AT 48" AFF UON. SUBSCRIPT "3" INDICATES 3-WAY TOGGLE SWITCH, SUBSCRIPT "4" INDICATES 4-WAY TOGGLE SWITCH. COLOR CHOSEN BY ARCHITECT. 120 VOLT SLIDE TYPE DIMMER, ON/OFF/RAISE LOWER, MOUNTED AT 48" AFF UON. COLOR CHOSEN BY ARCHITECT.

POWER DEVICES

DIGITAL DUAL TECHNOLOGY CEILING MOUNT OCCUPANCY SENSOR

ORIENTATION OF ILLUMINATED FACES. PROVIDE WITH 90 MINUTE

FILLED IN QUADRANT(s) OF SYMBOL INDICATES NUMBER AND

BATTERY PACK.

CONTROLLER.

DUPLEX CONVENIENCE RECEPTACLE, 20 A, 125 VAC, MOUNT +18" AFF UON. "WP" INDICATES WEATHERPROOF OUTLET. "TV" INDICATES OUTLET FOR TELEVISION POWER, MOUNTING HEIGHT TO BE COORDINATED WITH ARCHITECTURAL ELEVATIONS. "C" INDICATES CEILING MOUNTED.

RECEPTACLE AS NOTED ABOVE BUT, MOUNT 48" AFF OR 6" ABOVE BACKSPLASH OR COUNTER TOP WHERE COUNTER IS INDICATED.

RECEPTACLE AS NOTED ABOVE BUT WITH INTERNAL GROUND FAULT PROTECTION, MOUNT 48" AFF OR 6" ABOVE BACKSPLASH OR COUNTER TOP WHERE COUNTER IS INDICATED.

RECEPTACLE, MOUNT 18" AFF, INDICATES GROUND FAULT CIRCUIT INTERRUPTING RECEPTABLE.

QUADRUPLEX CONVENIENCE RECEPTACLE MOUNTED IN TWO-GANG OUTLET BOX - EACH RATED 20A, 125 VOLTS WITH SINGLE COVER PLATE, MOUNT 18" AFF, UON.

TELEPHONE AND DATA SYSTEMS

DATA/VOICE OUTLET AT 18" AFF UON WITH 1" CONDUIT AND PULL STRING ROUTED TO ABOVE EXISTING WALL MOUNTED IT RACK, PER DETAIL ON SHEET EP501.

CCTV LOCATION. PROVIDE 4" BOX WITH 3/4" CONDUIT AND PULL STRING TO ABOVE EXISTING WALL MOUNTED IT RACK."WP" INDICATES WEATHERPROOF.

WIRELESS ACCESS POINT LOCATION. PROVIDE 4" BOX WITH 3/4" CONDUIT AND PULL STRING TO ABOVE EXISTING WALL MOUNTED IT RACK.

ELECTRICAL ABBREVIATIONS

LED

LTG

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

3#2/0,#6G

2#12,#12G

3#2/0,#6G

2#12,#12G

1/2" LA

1/2" LA

LOCATION VOLTS PHASE DISCONNECT SWITCH CONDUCTOR CONDUIT PANEL

208V 3 200A/3P/3R

208V 1 M.R.S.

1. COORDINATE WITH MECHANICAL FOR CONTROLS. ALL CONTROLS CABLING SHALL BE RAN IN 1/2" CONDUIT.

LIGHT EMITTING DIODE

MAIN CIRCUIT BREAKER

MOTOR RATED SWITCH

MAIN SWITCHBOARD

LIGHTING

LUMINAIRE

MOUNT

MOUNTED

MTG HT MOUNTING HEIGHT

MAIN LUG ONLY

DESCRIPTION

MOTOR RATED SWITCH WITH OVERLOADS.

PROTECTION PLANS.

PANELBOARD - 208Y/120V

FIRE ALARM CONTROL PANEL LOCATION. REFER TO FIRE

DISTRIBUTION

WIRE, CONDUIT AND RACEWAY

INDICATES A CONDUIT RUN CONCEALED IN CEILING, WALL,

CONDUIT RUN EXPOSED ON WALL OR CEILING. DASHED

GENERAL

NOTE REFERENCE - TYPICALLY LOCATED ON SAME SHEET

HOMERUNS TO PANEL. PANEL AND CIRCUIT

FLOOR, OR ABOVE SUSPENDED CEILING UON.

DESIGNATIONS AS INDICATED.

INDICATES EMERGENCY CIRCUIT.

CONDUIT TURNED UP

CONDUIT TURNED DOWN

WHERE SYMBOL IS USED.

ROOM NUMBER.

101

CONDUIT SEAL/SPLICE

AMPER N/C NORMALLY CLOSED ABOVE FINISHED FLOOR N/O NORMALLY OPEN NATIONAL ELECTRICAL CODE ABOVE FINISHED GRADE AIR HANDLING UNIT NESC NATIONAL ELECTRICAL SAFETY CODE AMERICAN WIRE GAUGE NEU NEUTRAL BLDG NF NON FUSIBLE BUILDING BRKR BREAKER NTS NOT TO SCALE CONDUIT OC OCCUPANCY SENSOR CIRCUIT BREAKER POLE CCT CIRCUIT PH PHASE PNL PANEL DISC SW DISCONNECT SWITCH DRAWING PVC POLYVINYL CHLORIDE CONDUIT EA EACH QTY QUANTITY EXHAUST FAN RECEPT RECEPTACLE **ELECTRICAL** REQ'D REQUIRED ELECTRICAL METALLIC TUBING ROOM **EQUIPMENT** S/N SOLID NEUTRAL **EXIST EXISTING** SUPPLY FAN FOOTCANDLE SPD SURGE PROTECTIVE DEVICE FAN COIL UNIT SW SWITCH **FULL LOAD AMPS** TEL TELEPHONE TYP TYPICAL UG UNDERGROUND GROUND FAULT CIRCUIT INTERRUPTER GND GROUND UH UNIT HEATER GALVANIZED RIGID STEEL UON UNLESS OTHERWISE NOTED HANDHOLE **VOLTAGE OR VOLTS** WIRE HORSEPOWER THOUSAND AMP CAPACITY, RMS WATER HEATER **SYMMETRICAL** WP WEATHERPROOF THOUSAND CIRCULAR MILS XFMR TRANSFORMER KILOVOLT AMPERE Ø PHASE KILOWATT HOUR LOCAL AREA NETWORK

SHEET NUMBER	SHEET NAME
E-001	ELECTRICAL LEGENDS, ABBREVIATIONS, AND SCHEDULES
	, ,
ES101	ELECTRICAL SITE PLAN
EL101	LIGHTING FLOOR PLAN - PSTF
EP101	POWER AND TELECOMMUNICATIONS FLOOR PLAN - PSTF
CDE04	DOMED AND TELECOMMUNICATIONS DETAILS

					A/F) A L I		I R # !				\	F	
				NE	VV F	PAN	LL	LIVI	י אע	36 t	1EL	JUL	L .	
		600 AN	ИР МСВ	208	Y/120 VOL	LTS 3	BPH, 4W, 6	0 HZ	MIN. 22 K	AIC S	SURFACE	MOUNTE	ED SE RATED	
CKT.				WIRE	BKR						BKR	WIRE		CKT.
NO.	LOAD DESCRIPTION			SIZE	TRIP	AMPS	KVA	PH	KVA	AMPS	TRIP	SIZE	LOAD DESCRIPTION	NO.
1	PANEL LA			*	150	91.6 96.4 89.7	11.0 11.6 10.8	A B C	18.5 18.5 18.5	154.3 154.3 154.3	175	*	PHP-1	2
7	EXISTING PANEL M1			*	200	160.0 160.0		A B	15.0 15.0	125.0 125.0	175	*	WH-1	8
11	BUSSED SPACE							C	15.0	125.0				
13	SPACE							A B C					SPACE	14
19	SPACE							A B C					SPACE	20
TOTA	_ AMPS (CONN. LOAD)				A:	509.6		B:	514.4		C:	369.0	<u></u>	
	AMPS (FEEDTHRU)				A:	000.0		B:	•		C:	000.0		
	AMPS (CONN. LOAD + FEED-THRU)				A:	509.6		B:	514.4		C:	369.0		
ΔNIE					/ \.	303.0		D.	714.4		O.	000.0		
1. 2.	BOARD OPTIONS: PROVIDE WITH DIGITAL MULTIMETER PROVIDE INTERNALLY MOUNTED SPI				71.	303.0		PANELBO	ARD NOT				ECTION SCHEDULE	
1.	PROVIDE WITH DIGITAL MULTIMETER				7.6	300.0		PANELBO	ARD NOT				ECTION SCHEDULE	
1.	PROVIDE WITH DIGITAL MULTIMETER			SUBFEE		FEEDTHF		PANELBO	ARD NOT	HANICAL		ENT CONN	ECTION SCHEDULE	
1. 2.	PROVIDE WITH DIGITAL MULTIMETER	D.)	CONN LO	D		RU ADD	PANELBC * TOTAL LOAD	ARD NOT	D.F. MULT.	EQUIPME TOTAL K DEMAND	ENT CONN	ECTION SCHEDULE	
1. 2. _OAD	PROVIDE WITH DIGITAL MULTIMETER PROVIDE INTERNALLY MOUNTED SPI DESCRIPTION ING	D. PANEL	KVA	CONN LO	D DAD KVA	FEEDTHF	RU IAD KVA	PANELBC * TOTAL LOAD 3.0	ARD NOT SEE MEC	D.F. MULT.	EQUIPME TOTAL K DEMAND 3.7	VA KVA	ECTION SCHEDULE	
1. 2. OAD	PROVIDE WITH DIGITAL MULTIMETER PROVIDE INTERNALLY MOUNTED SPI DESCRIPTION ING PTACLES	PANEL CONN LOAD	KVA KVA	3.0 22.6	D DAD KVA KVA	FEEDTHF	RU NAD KVA KVA	TOTAL LOAD 3.0 22.6	KVA KVA	D.F. MULT. 1.25	TOTAL K DEMAND 3.7 16.3	VA) KVA KVA	ECTION SCHEDULE	
1. 2. OAD IGHT RECE	PROVIDE WITH DIGITAL MULTIMETER PROVIDE INTERNALLY MOUNTED SPI DESCRIPTION ING PTACLES EQUIP	D. PANEL	KVA KVA KVA	3.0 22.6	D DAD KVA KVA KVA	FEEDTHF	RU NAD KVA KVA KVA	PANELBC * TOTAL LOAD 3.0	KVA KVA KVA KVA	D.F. MULT. 1.25 NEC 1.00	TOTAL K DEMAND 3.7 16.3	VA) KVA KVA KVA	ECTION SCHEDULE	
1. 2. LOAD LIGHT RECE MECH ELEC	PROVIDE WITH DIGITAL MULTIMETER PROVIDE INTERNALLY MOUNTED SPI DESCRIPTION ING PTACLES EQUIP IRIC HEAT	PANEL CONN LOAD	KVA KVA KVA	3.0 22.6 3.9	D DAD KVA KVA KVA KVA	FEEDTHF	RU NAD KVA KVA KVA KVA	TOTAL LOAD 3.0 22.6 104.5	KVA KVA KVA KVA KVA KVA	D.F. MULT. 1.25 NEC 1.00 1.25	TOTAL K DEMAND 3.7 16.3 104.5	VA) KVA KVA KVA KVA	ECTION SCHEDULE	
1. 2. LOAD LIGHT RECE MECH ELEC MISC	PROVIDE WITH DIGITAL MULTIMETER PROVIDE INTERNALLY MOUNTED SPI DESCRIPTION ING PTACLES EQUIP IRIC HEAT ELLANEOUS	PANEL CONN LOAD	KVA KVA KVA KVA	3.0 22.6 3.9	D DAD KVA KVA KVA KVA KVA	FEEDTHF	RU NAD KVA KVA KVA KVA KVA	TOTAL LOAD 3.0 22.6 104.5	KVA KVA KVA KVA KVA KVA KVA KVA	D.F. MULT. 1.25 NEC 1.00 1.25 1.00	TOTAL K DEMAND 3.7 16.3 104.5	VA) KVA KVA KVA KVA KVA	ECTION SCHEDULE	
1. 2. LIGHT RECE MECH ELEC MISC	PROVIDE WITH DIGITAL MULTIMETER PROVIDE INTERNALLY MOUNTED SPI DESCRIPTION ING PTACLES EQUIP IRIC HEAT	PANEL CONN LOAD	KVA KVA KVA KVA KVA	3.0 22.6 3.9	D DAD KVA KVA KVA KVA KVA	FEEDTHF	RU NAD KVA KVA KVA KVA KVA	TOTAL LOAD 3.0 22.6 104.5	KVA KVA KVA KVA KVA KVA KVA KVA	D.F. MULT. 1.25 NEC 1.00 1.25	TOTAL K DEMAND 3.7 16.3 104.5	VA KVA KVA KVA KVA KVA KVA KVA	ECTION SCHEDULE	
1. 2. LOAD LIGHT RECE MECH ELEC MISC	PROVIDE WITH DIGITAL MULTIMETER PROVIDE INTERNALLY MOUNTED SPI DESCRIPTION ING PTACLES EQUIP IRIC HEAT ELLANEOUS	PANEL CONN LOAD	KVA KVA KVA KVA KVA KVA	3.0 22.6 3.9	D DAD KVA KVA KVA KVA KVA KVA	FEEDTHF	RU NAD KVA KVA KVA KVA KVA KVA	TOTAL LOAD 3.0 22.6 104.5	KVA KVA KVA KVA KVA KVA KVA KVA	D.F. MULT. 1.25 NEC 1.00 1.25 1.00	TOTAL K DEMAND 3.7 16.3 104.5	VA KVA KVA KVA KVA KVA KVA KVA		
1. 2. LOAD LIGHT RECE MECH ELEC MISC	PROVIDE WITH DIGITAL MULTIMETER PROVIDE INTERNALLY MOUNTED SPI DESCRIPTION ING PTACLES EQUIP IRIC HEAT ELLANEOUS	PANEL CONN LOAD	KVA KVA KVA KVA KVA KVA	CONN LC 3.0 22.6 3.9 3.8	D DAD KVA KVA KVA KVA KVA KVA	FEEDTHF CONN LC	RU KVA KVA KVA KVA KVA KVA KVA	TOTAL LOAD 3.0 22.6 104.5	KVA KVA KVA KVA KVA KVA KVA KVA KVA	D.F. MULT. 1.25 NEC 1.00 1.25 1.00	TOTAL K DEMAND 3.7 16.3 104.5	VA KVA KVA KVA KVA KVA KVA KVA		
1. 2. LOAD LIGHT RECE MECH ELEC MISC	PROVIDE WITH DIGITAL MULTIMETER PROVIDE INTERNALLY MOUNTED SPI DESCRIPTION ING PTACLES EQUIP IRIC HEAT ELLANEOUS	PANEL CONN LOAD	KVA KVA KVA KVA KVA KVA KVA KVA	CONN LC 3.0 22.6 3.9 3.8	D DAD KVA KVA KVA KVA KVA KVA KVA	FEEDTHF CONN LC	RU KVA KVA KVA KVA KVA KVA KVA KVA	TOTAL LOAD 3.0 22.6 104.5	KVA KVA KVA KVA KVA KVA KVA KVA KVA KVA	D.F. MULT. 1.25 NEC 1.00 1.25 1.00	TOTAL K DEMAND 3.7 16.3 104.5	VA KVA KVA KVA KVA KVA KVA KVA		
1. 2. LOAD LIGHT RECE MECH ELEC MISC	PROVIDE WITH DIGITAL MULTIMETER PROVIDE INTERNALLY MOUNTED SPI DESCRIPTION ING PTACLES EQUIP IRIC HEAT ELLANEOUS	PANEL CONN LOAD	KVA KVA KVA KVA KVA KVA KVA KVA	3.0 22.6 3.9 3.8	D DAD KVA KVA KVA KVA KVA KVA KVA KVA	FEEDTHF CONN LC	RU KVA KVA KVA KVA KVA KVA KVA KVA	TOTAL LOAD 3.0 22.6 104.5	KVA	D.F. MULT. 1.25 NEC 1.00 1.25 1.00	TOTAL K DEMAND 3.7 16.3 104.5	VA KVA KVA KVA KVA KVA KVA KVA		
1. 2. OAD IGHT RECE MECH ELEC MISCI EXIST	PROVIDE WITH DIGITAL MULTIMETER PROVIDE INTERNALLY MOUNTED SPI	PANEL CONN LOAD 100.6 33.3	KVA KVA KVA KVA KVA KVA KVA KVA KVA	CONN LO 3.0 22.6 3.9 3.8	D DAD KVA KVA KVA KVA KVA KVA KVA KVA	FEEDTHF CONN LC	RU KVA KVA KVA KVA KVA KVA KVA KVA KVA	TOTAL LOAD 3.0 22.6 104.5 3.8 33.3	KVA	D.F. MULT. 1.25 NEC 1.00 1.25 1.00 0.90	TOTAL K DEMAND 3.7 16.3 104.5 3.8 30.0	VA KVA KVA KVA KVA KVA KVA KVA		
1. 2. LOAD LIGHT RECE MECH ELEC ELEC EXIST	PROVIDE WITH DIGITAL MULTIMETER PROVIDE INTERNALLY MOUNTED SPI	PANEL CONN LOAD 100.6 33.3	KVA KVA KVA KVA KVA KVA KVA KVA KVA	CONN LC 3.0 22.6 3.9 3.8	D DAD KVA KVA KVA KVA KVA KVA KVA KVA KVA	FEEDTHF CONN LC	RU KVA KVA KVA KVA KVA KVA KVA KVA KVA	TOTAL LOAD 3.0 22.6 104.5 3.8 33.3	KVA	D.F. MULT. 1.25 NEC 1.00 1.25 1.00 0.90	TOTAL K DEMAND 3.7 16.3 104.5 3.8 30.0	VA KVA KVA KVA KVA KVA KVA KVA		
1. 2. LOAD LIGHT RECE MECH ELEC MISCI EXIST	PROVIDE WITH DIGITAL MULTIMETER PROVIDE INTERNALLY MOUNTED SPI	PANEL CONN LOAD 100.6 33.3	KVA KVA KVA KVA KVA KVA KVA KVA KVA KVA	3.0 22.6 3.9 3.8 33.3 40.0	DAD KVA KVA KVA KVA KVA KVA KVA	FEEDTHF CONN LC	RU KVA	TOTAL LOAD 3.0 22.6 104.5 3.8 33.3	KVA	D.F. MULT. 1.25 NEC 1.00 1.25 1.00 0.90	TOTAL K DEMAND 3.7 16.3 104.5 3.8 30.0	VA VA KVA KVA KVA KVA KVA KVA K		
1. 2. OAD IGHT RECE MECH ELEC MISCI EXIST	PROVIDE WITH DIGITAL MULTIMETER PROVIDE INTERNALLY MOUNTED SPI	PANEL CONN LOAD 100.6 33.3	KVA KVA KVA KVA KVA KVA KVA KVA KVA	3.0 22.6 3.9 3.8 33.3 40.0 92.5	D DAD KVA KVA KVA KVA KVA KVA KVA KVA KVA	FEEDTHF CONN LC	RU KVA KVA KVA KVA KVA KVA KVA KVA KVA	TOTAL LOAD 3.0 22.6 104.5 3.8 33.3	KVA	D.F. MULT. 1.25 NEC 1.00 1.25 1.00 0.90	TOTAL K DEMAND 3.7 16.3 104.5 3.8 30.0	VA KVA KVA KVA KVA KVA KVA KVA		

		N	IEW	PA	NE	L L	4 S	CHE	EDL	JLE		
		150 AMP MLC	208\	//120 VOLT	S 31	PH, 4W, 60	HZ N	11N. 22 KA	AIC S	URFACE	MOUNTED	
CKT. NO. LOAD DESCRIPTION		WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	LOAD DESCRIPTION	CKT. NO.
1 REC. 322,358,323,321,321 EXT.		12	20	7.5	0.9	A	1.2	9.8	20	12	ROLL UP DOOR	2
3 REC. 319		12	20	12.5	1.5	В	1.2	9.8	20		ROLL UP DOOR	4
5 REC. 319		12	20	12.5	1.5	С	1.4	11.3	20	12	LIGHTS TRAINING 359	6
7 REC. P03T		12	20	12.5	1.5	A	0.7	6.2	20	12	LIGHTS TRAINING 359	8
9 REC. P03T		12	20	12.5	1.5	В	0.7	5.8	20	12	LIGHTS OFFICE/LOCKER RMS.	10
11 REC. 320		12	20	6.0	0.7	С	0.2	1.5	20		LIGHTS EXTERIOR	12
13 REC. 359		12	20	7.5	0.9	A	1.0	8.3	20		DDC PANEL	14
15 EWC 359 (NOTE 1)		12	20	4.2	0.5	В	1.0	8.3	20		FACP	16
17 REC. 359		12	20	7.5	0.9	С	0.2	2.0	20	12	LAV/FLUSH SENSORS. RM 106	183 2
19 REC. CEILING 359		12	20	8.3	1.0	A	0.2	2.0	20	12	LAV/FLUSH SENSORS. RM 102	20 3
21 REC. CEILING 359		12	20	8.3	1.0	В	0.2		20		SPARE	20 22
23 REC. CEILING 359		12	20	8.3	1.0	С			20		SPARE	24
25 REC. CAR CHRGR. 359		12	20	8.3	1.0	A			20		SPARE	26
27 REC. CAR CHRGR. 359		12	20	8.3	1.0	В			20		SPARE	28
29 REC. CAR CHRGR. 359		12	20	8.3	1.0	С			20		SPARE	30
31 REC. CAR CHRGR. 359		12	20	8.3	1.0	A	0.1	0.9	20	*	RP-1	32
33 REC. CAR CHRGR. EXT.		12	20	8.3	1.0	В	0.1	0.9	20		141 -1	32
35 REC. CAR CHRGR. EXT.		12	20	8.3	1.0	С	0.4	4.2	20	*	EF-1	36
37 REC. CAR CHRGR. EXT.		12	20	8.3	1.0	A	0.4	4.2	20			
39 REC. CAR CHRGR. EXT.		12	20	8.3	1.0	В	0.9	8.8	20	*	RF-1	40
41 REC. VENDING 359 (NOTE 1)		12	20	12.5	1.5	C	0.9	8.8				
TOTAL AMPS (CONN. LOAD)			A:	91.6		B:	94.9		C:	89.7		
rotal amps (feedthru)			A:			B:			C:			
OTAL AMPS (CONN. LOAD + FEED-THRU)			A:	91.6		B:	94.9		C:	89.7		
PANELBOARD OPTIONS:						PANELBO	DARD NOT	ES:				
						1.	PROVIDE	050155				
						1.	THOUBL	. GFCI BR	EARER			
	PANEL	SUBFE	ED .	FEEDTH	R U	TOTAL	TROVIDE	D.F.	TOTAL K	VA		
OAD DESCRIPTION	PANEL CONN LOAD	SUBFE CONN I		FEEDTHI CONN LO			TROVIDE	D.F. MULT.	TOTAL K			
	CONN LOAD	-				TOTAL LOAD	KVA	D.F.	TOTAL K			
IGHTING	3.0 22.4	CONNI	.OAD	CONN LO	DAD KVA KVA	TOTAL LOAD 3.0 22.4		D.F. MULT.	TOTAL K DEMAND 3.7)		
IGHTING RECEPTACLES	3.0 22.4	KVA CONN I	OAD KVA	CONN LO	DAD KVA	TOTAL LOAD 3.0 22.4	KVA	D.F. MULT. 1.25	TOTAL K DEMAND 3.7 16.2	KVA		
IGHTING RECEPTACLES MECH EQUIP	3.0 22.4 4.4	KVA KVA KVA	OAD KVA KVA KVA	CONN LO	OAD KVA KVA KVA	TOTAL LOAD 3.0 22.4 4.4	KVA KVA KVA	D.F. MULT. 1.25 NEC 1.00	TOTAL K DEMAND 3.7 16.2 4.4	KVA KVA KVA		
IGHTING RECEPTACLES MECH EQUIP RECTRIC HEAT	3.0 22.4 4.4	KVA KVA KVA KVA	OAD KVA KVA KVA	CONN LO	KVA KVA KVA KVA	TOTAL LOAD 3.0 22.4 4.4	KVA KVA KVA	D.F. MULT. 1.25 NEC 1.00 1.25	TOTAL K DEMANE 3.7 16.2 4.4	KVA KVA KVA KVA		
IGHTING IECEPTACLES IECH EQUIP ILECTRIC HEAT IISCELLANEOUS	3.0 22.4 4.4 3.4	KVA KVA KVA KVA KVA KVA	OAD KVA KVA KVA KVA	CONN LO	NAD KVA KVA KVA KVA KVA	TOTAL LOAD 3.0 22.4 4.4	KVA KVA KVA KVA	D.F. MULT. 1.25 NEC 1.00 1.25 1.00	TOTAL K DEMANE 3.7 16.2 4.4	KVA KVA KVA KVA		
IGHTING RECEPTACLES MECH EQUIP RECTRIC HEAT MISCELLANEOUS	3.0 22.4 4.4 3.4	KVA KVA KVA KVA KVA KVA KVA	OAD KVA KVA KVA KVA KVA KVA	CONN LO	KVA KVA KVA KVA KVA KVA	TOTAL LOAD 3.0 22.4 4.4	KVA KVA KVA KVA KVA	D.F. MULT. 1.25 NEC 1.00 1.25	TOTAL K DEMANE 3.7 16.2 4.4	KVA KVA KVA KVA KVA		
IGHTING RECEPTACLES MECH EQUIP RECTRIC HEAT MISCELLANEOUS	3.0 22.4 4.4 3.4	KVA KVA KVA KVA KVA KVA	OAD KVA KVA KVA KVA	CONN LO	NAD KVA KVA KVA KVA KVA	TOTAL LOAD 3.0 22.4 4.4	KVA KVA KVA KVA	D.F. MULT. 1.25 NEC 1.00 1.25 1.00	TOTAL K DEMANE 3.7 16.2 4.4	KVA KVA KVA KVA		
IGHTING RECEPTACLES MECH EQUIP RECTRIC HEAT MISCELLANEOUS	3.0 22.4 4.4 3.4	CONN I KVA	OAD KVA KVA KVA KVA KVA KVA KVA K	CONN LO	KVA KVA KVA KVA KVA KVA KVA KVA KVA	TOTAL LOAD 3.0 22.4 4.4 3.4	KVA KVA KVA KVA KVA KVA KVA	D.F. MULT. 1.25 NEC 1.00 1.25 1.00	TOTAL K DEMANE 3.7 16.2 4.4	KVA KVA KVA KVA KVA KVA KVA KVA		
IGHTING RECEPTACLES MECH EQUIP RECTRIC HEAT MISCELLANEOUS	3.0 22.4 4.4 3.4	CONN I KVA	OAD KVA KVA KVA KVA KVA KVA KVA K	CONN LC	XVA KVA KVA KVA KVA KVA KVA KVA KVA	TOTAL LOAD 3.0 22.4 4.4 3.4	KVA KVA KVA KVA KVA KVA KVA	D.F. MULT. 1.25 NEC 1.00 1.25 1.00	TOTAL K DEMANE 3.7 16.2 4.4	KVA KVA KVA KVA KVA KVA KVA KVA		
IGHTING ECEPTACLES IECH EQUIP LECTRIC HEAT IISCELLANEOUS	3.0 22.4 4.4 3.4	CONN I KVA	OAD KVA KVA KVA KVA KVA KVA KVA K	CONNLO	XVA KVA KVA KVA KVA KVA KVA KVA	TOTAL LOAD 3.0 22.4 4.4 3.4	KVA KVA KVA KVA KVA KVA KVA KVA	D.F. MULT. 1.25 NEC 1.00 1.25 1.00	TOTAL K DEMANE 3.7 16.2 4.4	KVA KVA KVA KVA KVA KVA KVA KVA KVA		
IGHTING ECEPTACLES IECH EQUIP LECTRIC HEAT IISCELLANEOUS XISTING PANEL	3.0 22.4 4.4 3.4	CONN I KVA	OAD KVA KVA KVA KVA KVA KVA KVA K	CONNLO	XVA KVA KVA KVA KVA KVA KVA KVA	TOTAL LOAD 3.0 22.4 4.4 3.4	KVA KVA KVA KVA KVA KVA KVA KVA	D.F. MULT. 1.25 NEC 1.00 1.25 1.00 0.90	TOTAL K DEMAND 3.7 16.2 4.4 3.4	KVA KVA KVA KVA KVA KVA KVA KVA KVA KVA		
IGHTING ECEPTACLES IECH EQUIP LECTRIC HEAT IISCELLANEOUS XISTING PANEL OTALS (CONN. KVA)	3.0 22.4 4.4 3.4	CONN I KVA	OAD KVA KVA KVA KVA KVA KVA KVA K	CONN LO	KVA	TOTAL LOAD 3.0 22.4 4.4 3.4	KVA KVA KVA KVA KVA KVA KVA KVA KVA	D.F. MULT. 1.25 NEC 1.00 1.25 1.00 0.90	TOTAL K DEMAND 3.7 16.2 4.4 3.4	KVA KVA KVA KVA KVA KVA KVA KVA KVA KVA		
IGHTING RECEPTACLES MECH EQUIP ELECTRIC HEAT MISCELLANEOUS EXISTING PANEL OTALS (CONN. KVA)	3.0 22.4 4.4 3.4 33.1 39.8	CONN I KVA	OAD KVA KVA KVA KVA KVA KVA KVA K	CONN LO	KVA	TOTAL LOAD 3.0 22.4 4.4 3.4 3.4	KVA KVA KVA KVA KVA KVA KVA KVA	D.F. MULT. 1.25 NEC 1.00 1.25 1.00 0.90	TOTAL K DEMAND 3.7 16.2 4.4 3.4	KVA KVA KVA KVA KVA KVA KVA KVA KVA KVA		
LOAD DESCRIPTION LIGHTING RECEPTACLES MECH EQUIP ELECTRIC HEAT MISCELLANEOUS EXISTING PANEL TOTALS (CONN. KVA) TOTALS (CONN. KVA + 20%) TOTALS (CONN. AMPS)	3.0 22.4 4.4 3.4 33.1 39.8	CONN I KVA	OAD KVA KVA KVA KVA KVA KVA KVA K	CONN LO	KVA	TOTAL LOAD 3.0 22.4 4.4 3.4 3.4	KVA KVA KVA KVA KVA KVA KVA KVA KVA	D.F. MULT. 1.25 NEC 1.00 1.25 1.00 0.90	TOTAL K DEMAND 3.7 16.2 4.4 3.4	KVA KVA KVA KVA KVA KVA KVA KVA KVA KVA		

POWER AND TELECOMMUNICATIONS DETAILS

DESIGNER CLARKNEXSEN 301 College Street, Suite 300 Asheville, North Carolina 28801

828-232-0608

www.clarknexsen.com

HENDERSON COUNTY AND BLUE RIDGE

TRAINING FACILITY

BRCC - PUBLIC SAFETY

COMMUNITY COLLEGE

180 W CAMPUS DR.

FLAT ROCK, NC 28731

SUBMITTAL 11/17/2020 CONSTRUCTION DOCUMENTS

REVISIONS 1 12/7/2020 ADDENDUM 1

CN 5199-L

ELECTRICAL LEGENDS, ABBREVIATIONS, AND SCHEDULES

E-001

DESIGN: MRB DRAWN: SJB REVIEW: MGB

107

LOCKER

MENS LOCKER

LIGHTING FLOOR PLAN

12GA. HANGER WIRE AT

ATTACHED TO STRUCTURE

LUMINAIRE BAR

HANGERS

BOARD (TYP) -

ARCHITECTURAL

CEILING GRID -

LUMINAIRE

(REFER TO SCHEDULE)

DIAGONAL CORNER

RECESSED CAN LUMINAIRE

CEILING HANGER

CAN

LUMINAIRE

DOWNLIGHT MOUNTING - GYPBOARD CEILING

NOT TO SCALE

WIRE (TYP)

WIRE TIE OR SCREW

BAR HANGER TO

CROSS BEAM (TYP)

CEILING CROSS

CEILING MAIN BEAM ————

HENDERSON COUNTY AND BLUE RIDGE COMMUNITY COLLEGE

> **BRCC - PUBLIC SAFETY** TRAINING FACILITY

180 W CAMPUS DR.

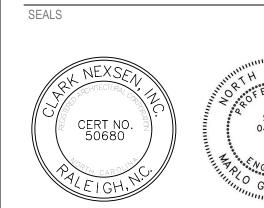
FLAT ROCK, NC 28731



CLARKNEXSEN

301 College Street, Suite 300 Asheville, North Carolina 28801 828-232-0608 www.clarknexsen.com

NO WORK IN THIS AREA UNLESS OTHERWISE NOTED.



SUBMITTAL 11/17/2020

CONSTRUCTION DOCUMENTS

1 12/7/2020 ADDENDUM 1

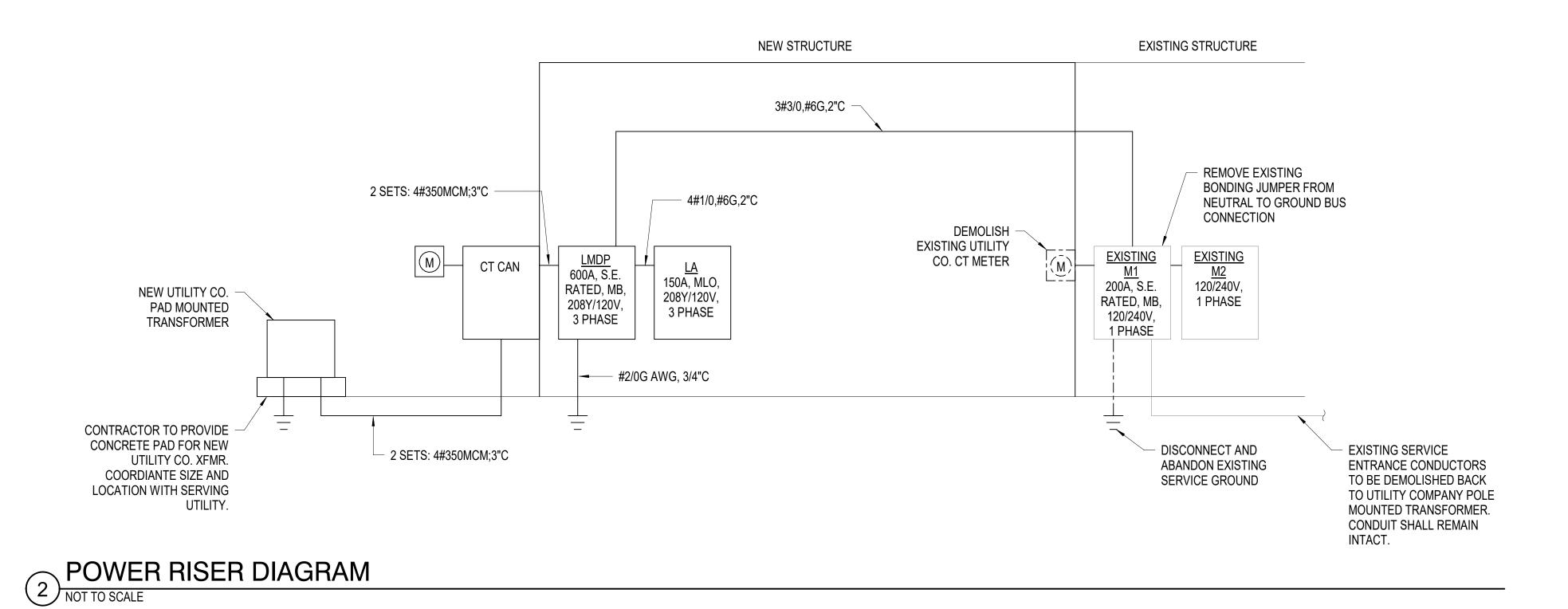
LIGHTING FLOOR PLAN - PSTF

EL101

DRAWN: SJB REVIEW: MGB

POWER AND TELECOMMUNICATIONS FLOOR PLAN

1/8" = 1'-0"



GENERAL NOTES

SECTION 314.23.

HAVE GFCI PROTECTION.

ELECTRICAL ROUGH-IN.

EQUIPMENT.

A MOUNTING HEIGHTS AS INDICTED ON THE DRAWINGS SHALL BE FROM THE FINISHED FLOOR TO THE CENTER LINE OF THE OUTLET BOX.

> SECTION 314.20 . INSTALLATIONS WITHIN A COMBUSTIBLE SURFACE MATERIAL MUST EXTEND TO THE FINISHED SURFACE. SUPPORT OF THE

C CAREFULLY COORDINATE ROUGH-IN WITH ARCHITECTURAL AND BLOCK

D ALL RECEPTACLES WITHIN 6FT OF A SINK, IN BATHROOMS, OUTDOORS, ON A ROOFTOP, OR IN LOCATIONS DETERMINED BY NFPA 70 SECTION 210.8 MUST

E COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT PRIOR

ALL POWER CONNECTION INFORMATION FOR HVAC, PLUMBING AND SPECIAL

G ALL BREAKERS SERVING LIFE SAFETY EQUIPMENT (FIRE ALARM) SHALL BE LABELED AS SUCH WITH RED IDENTIFICATION TAG "FIRE ALARM CIRCUIT". PROVIDE BREAKER WITH DEVICE TO LOCK BREAKER IN THE ON POSITION SUCH AS "ECLIPS ELOCK-FA" OR EQUAL DEVICE TO MEET NFPA 70, ARTICLE

H COORDINATE ELECTRICAL CONNECTIONS TO FACP AND DDC PANELS WITH

THE RELEVANT DISCIPLINE. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

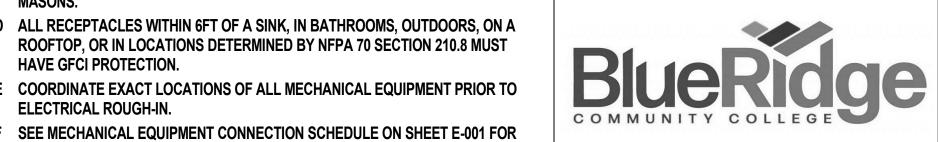
OUTLET BOX BY THE DEVICE OR COVERPLATE IS NOT ACCEPTABLE. SEE NEC

BRCC - PUBLIC SAFETY TRAINING FACILITY B ALL FLUSH RECESSED OUTLET BOXES IN NON-COMBUSTIBULE MATERIAL SHALL BE INSTALLED SUCH THAT FRONT EDGE OF THE BOX WILL NOT BE SET BACK OFF THE FINISHED SURFACE MORE THAN 1/4 IN AS NOTED IN NFPA 70

COMMUNITY COLLEGE

HENDERSON COUNTY AND BLUE RIDGE

180 W CAMPUS DR. FLAT ROCK, NC 28731



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KEY NOTES

EXISTING 120/240 VOLT, 200A MAIN BREAKER, 40 POLE, SINGLE PHASE MAIN DISTRIBUTION PANEL 1 TO REMAIN.

EXISTING 120/240 VOLT, 125A M.L.O., 16 POLE, SINGLE PHASE MAIN

DISTRIBUTION PANEL 2 TO REMAIN. PROVIDE JUNCTION BOX AT 44" AFF UON FOR ROLL UP DOOR CONTROLS. ROUTE 1/2" CONDUIT WITH PULL STRINGS FROM JUNCTION BOX TO DOOR CONTROLLER. COORDINATE EXACT REQUIREMENTS WITH ROLL UP DOOR

MANUFACTURER. 4 EXISTING WALL MOUNTED DATA RACK TO REMAIN.

EXISTING UTILITY COMPANY METER IN THIS LOCATION TO BE DEMOLISHED. ROUTE 3#12; 1/2"C TO PANEL M2 AND CONNECT TO SPARE 20A/1P BREAKER. THIS RECEPTACLE IS INTENDED TO SUPPLY POWER TO UPS AND SHALL BE A TWIST-LOCK TYPE RECEPTACLE; COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH OWNER AND WITH UPS MANUFACTURER'S LITERATURE. COORDINATE EXACT LOCATION OF OUTLET WITH OWNER

PRIOR TO INSTALLATION. UPDATE PANEL LEGEND. NO WORK IN THIS AREA UNLESS OTHERWISE NOTED.

WHERE EQUIPMENT CONNECTION DESIGNATION IS INDICATED ON FLOOR PLANS, PROVIDE ELECTRICAL CONNECTION TO EACH TOILET, URINAL AND SINK IN ROOM. COORDINATE EACH ELECTRICAL CONNECTION WITH PLUMBING FIXTURE CONTROLLER. PLUMBING FIXTURE PROVIDED BY PLUMBING CONTRACTOR. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION.

EXISTING CONDENSING UNIT TO BE RELOCATED. RELOCATED CONDENSING UNIT. CONTRACTOR TO RELOCATE EXISTING DISCONNECT AND FEEDER TO THIS LOCATION.

ROUTE 3#12; 1/2"C TO PANEL M2 AND CONNECT TO EXISTING 20A/1P BREAKER, PROVIDE NEW 20A/1P BREAKER AS REQUIRED.

12 SEE ACCESS CONTROL DETAIL ON SHEET EP501.

SUBMITTAL 11/17/2020

CONSTRUCTION DOCUMENTS

REVISIONS 1 12/7/2020 ADDENDUM 1

POWER AND TELECOMMUNICATIONS FLOOR PLAN - PSTF

EP101

GRAPHIC SCALE(S)

1/8" = 1' - 0"

DESIGN: MRB DRAWN: SJB REVIEW: MGB

CONDUIT EXPANSION JOINT CROSSING DETAIL

CONDUIT TRAPEZE MOUNTING DETAIL

3/8" MIN GALVANIZED

THREADED ROD,

TYP.

LOCKING SQUARE

WASHER &

LOCKNUT

- INTEGRAL

GALVANIZED

MOUNTING

CHANNEL

- WASHER

LOCKNUT

INSTALLED WITH A CENTER SUPPORT ROD.

SYSTEMS. FIELD VERIFY EXACT CONDITIONS.

1. METAL CHANNEL STRUT SUPPORT LONGER THAN THAN 36" SHALL BE

2. FASTEN THREADED ROD TO STRUCTURE BY APPROVED METHOD PER SPECIFICATION 26 0533, RACEWAYS AND BOXES FOR ELECTRICAL

LIPPED STEEL

REFER TO PLANS

QUANTITY & SIZE OF

CONDUIT CLAMP.

—INTEGRAL— GALVANIZED

LIPPED STEEL

MOUNTING

CHANNEL

SIZE AS REQUIRED

FOR

CONDUITS

PHASE A - BLACK DEVICE GROUND PLASTER RING BONDING JUMPER CONNECTION -GROUND - GREEN

PHASE B - RED

4" SQUARE BOX

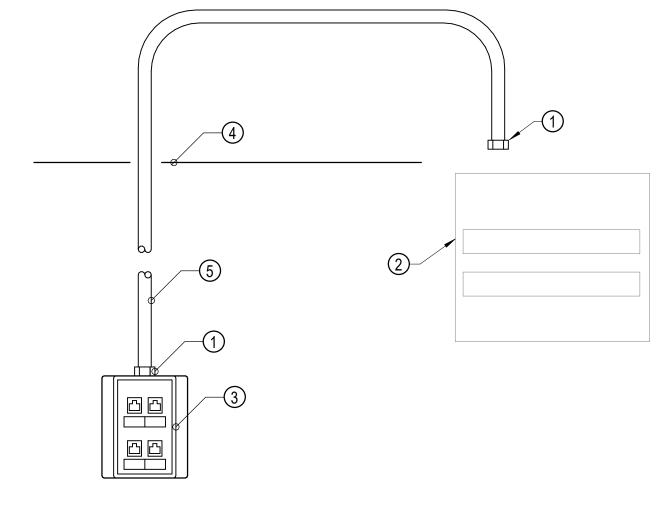
WIRENUTS (TYPICAL)

LOCKNUT AS REQUIRED.

STEEL E.M.T. CONNECTOR WITH NYLON INSULATED THROAT OR

- A. EACH CONDUCTOR IN BOX SHALL BE OF SUFFICIENT LENGTH FOR MAKING UP SPLICES.
- B. DO NOT INSTALL WIRES IN BACK OF DEVICE. LOOP AROUND TERMINAL SCREWS.
- C. FACE OF PLASTER RING (WHERE UTILIZED) SHALL BE FLUSH WITH WALL.
- D. FRONT OF DEVICE SHALL BE WITHIN 1/8" OF FINISHED WALL.

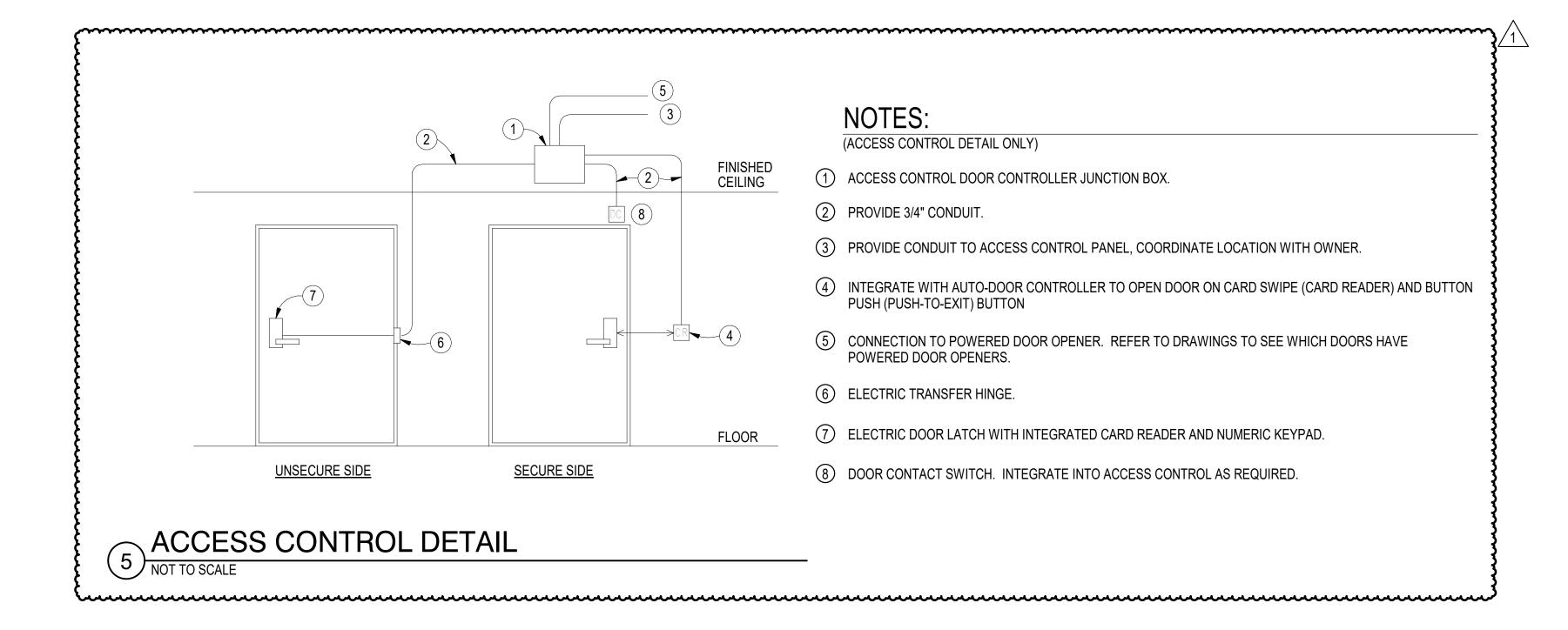
RECEPTACLE WIRING DETAIL

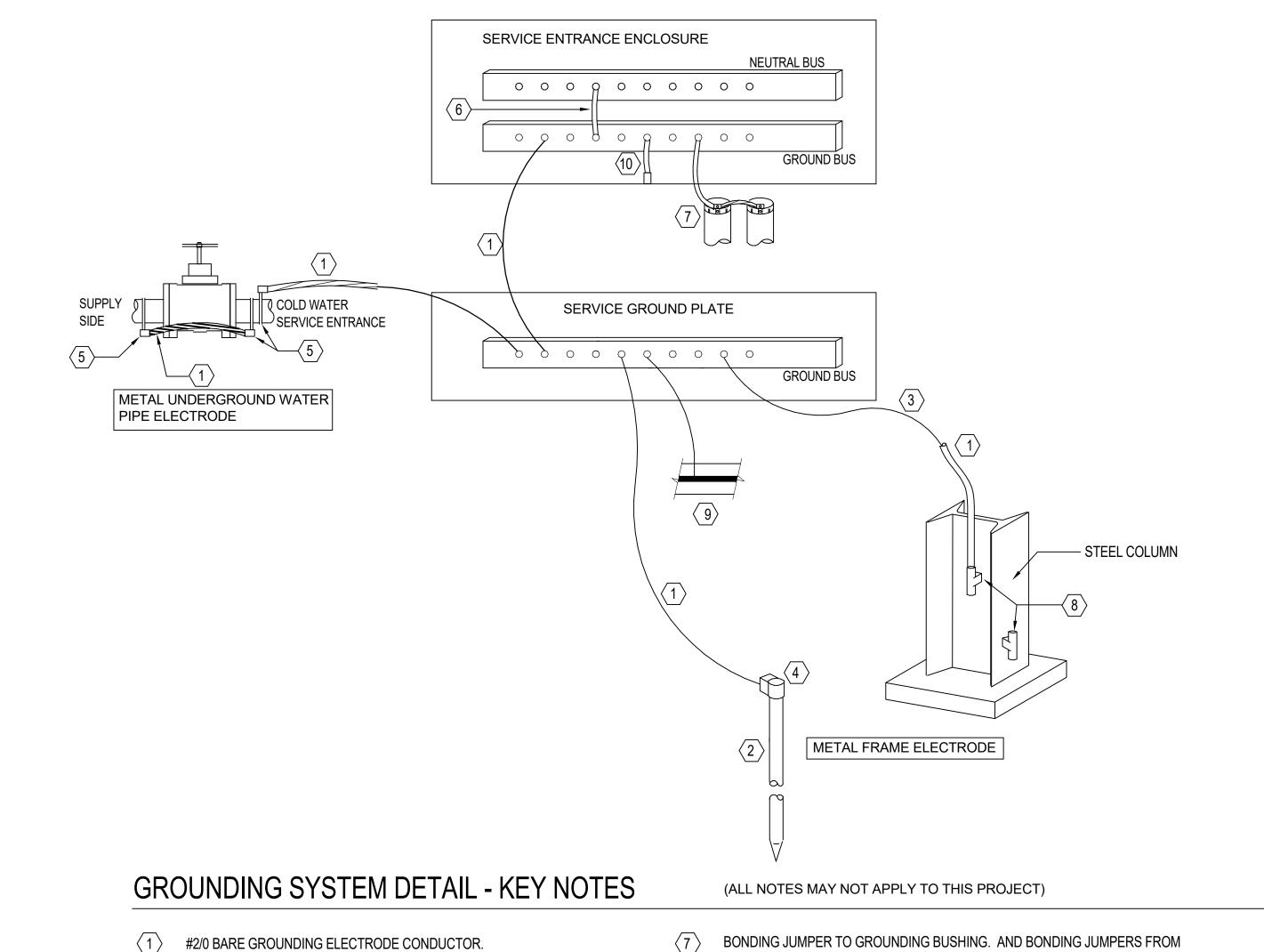


NOTES:

- (DATA/VOICE OUTLET & RACEWAY DETAIL ONLY)
- 1 CONDUIT BUSHING (TYPICAL).
- 2 EXISTING WALL MOUNTED RACK IN STORAGE 327.
- 3 DATA OUTLET, FACEPLATE AND CABLING PROVIDED BY OWNER. BOX AND CONDUIT BY CONTRACTOR.
- 4 ACCESSIBLE CEILING REFERENCE.
- (5) PROVIDE 1" CONDUIT PER OUTLET BOX TO EXISTING WALL MOUNTED NETWORK RACK.

DATA/VOICE OUTLET & RACEWAY DETAIL





CONDUIT TO CONDUIT. ALL CONDUIT CONNECTED TO THE SERVICE

CONDUCTOR 20' IN CONTACT WITH EARTH, PER NEC 250.52 (A) (3).

MAIN BONDING JUMPER, SIZED BY MANUFACTURER PER 250-122.

EXOTHERMIC WELD, CABLE TO FLAT STEEL, CADWELD #V V.

ENTRANCE ENCLOSURE. SHALL BE BONDED, SIZED PER NEC 250-122.

PROVIDE ENCASED GROUNDING ELECTRODE CONSISITING OF A MINIMUM #4 AWG SOLID

GENERAL NOTE: ALL METALLIC PIPING SYSTEMS IN BUILDING ARE TO BE BONDED TO THE

BUILDINGS GROUNDING SYSTEM WITH APPROPRIATE GROUNDING CONDUCTOR PER NEC 250.

#2/0 BARE GROUNDING ELECTRODE CONDUCTOR.

BELOW GRADE MINIMUM.

EXOTHERMIC WELD CONNECTOR:

GROUNDING SYSTEM DETAIL

CABLE TO CABLE TEE, CADWELD #TA.

ONE CABLE TO GROUND ROD, CADWELD #GR.

(3) 3/4"X10-0" COPPER CLAD STEEL GROUND ROD 10' APART, DRIVEN 24"

CAST BRONZE, UL LISTED GROUND CLAMP, O-Z/GEDNEY TYPE-G OR EQUAL.

6 BONDING JUMPER, SIZED BY EQUIPMENT MANUFACTURER PER NEC 250-102.

#2/0 BARE GROUNDING ELECTRODE CONDUCTOR IN 1-1/2"PVC-40.

TWO CABLES TO GROUND ROD, CADWELD #GT OR #GY.

HENDERSON COUNTY AND BLUE RIDGE COMMUNITY COLLEGE **BRCC - PUBLIC SAFETY**

TRAINING FACILITY

180 W CAMPUS DR. FLAT ROCK, NC 28731



CLARKNEXSEN

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11/17/2020 CONSTRUCTION DOCUMENTS

1 12/7/2020 ADDENDUM 1

POWER AND TELECOMMUNICATIONS DETAILS

EP501

DESIGN: MRB DRAWN: SJB

REVIEW: SPS