	ELECTRIC	CAL LEGEND				
Δ	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
			03	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, 360° COVERAGE 2 = SECOND CONTACT TO BE PROVIDED FOR CONNECTION TO BUILDING MANAGEMENT	•	2 START/STOP PUSHBUTTON CONTROLLER
		CEILING FAN, SEE LIGHTING FIXTURE SCHEDULE FOR TYPE	-09-	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, LONG RANGE COVERAGE	●	3 UP/STOP/DN PUSHBUTTON CONTROLLER
			Ť	2 = SECOND CONTACT TO BE PROVIDED FOR CONNECTION TO BUILDING MANAGEMENT	EPOA	WALL MOUNTED 120V EMERGENCY OFF PUSH BUTTON WITH RED MUSHROOM STYLE HEAD
		2x4 LIGHT FIXTURE. RECESSED OR SURFACE MOUNTED	9	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, 180° COVERAGE 2 = SECOND CONTACT TO BE PROVIDED FOR CONNECTION TO BUILDING MANAGEMENT		AT 46" AFF UNLESS OTHERWISE NOTED.
			ġ	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, PIR TECHNOLOGY OCCUPANCY SENSOR, LOW VOLTAGE (24VDC) 19mA DRAW, WATTSTOPPER CX100-1,	白	WALL MOUNTED PUSH PLATE MOUNTED AT 46" AFF UNLESS OTHERWISE NOTED.
		2x2 LIGHT FIXTURE, RECESSED OR SURFACE MOUNTED		LONG RANGE SENSOR. INSTALL WHERE FREE OF OBSTRUCTIONS.	208/120V	
		4FT OR 8FT LIGHT FIXTURE RECESSED OR SURFACE MOUNTED	-63-	OCCUPANCY SENSOR, LOW VOLTAGE (24VDC) 19mA DRAW, WATTSTOPPER CX100-3, TWO SIDED AISLEWAY INSTALL WHERE FREE OF OBSTRUCTIONS		PANELBOARD SURFACE OR RECESSED MOUNTED AS SHOWN SIZE RATINGS AND
	<u> </u>				480/277V	MOUNTING AS INDICATED ON PANEL SCHEDULE. CONTRACTOR IS RESPONSIBLE FOR REQUIRED CLEARANCE IN FRONT OF ELECTRICAL PANEL. SEE NEC TABLE 110.26
	<u> </u>	4FT OR 8FT CHANNEL LIGHT FIXTURE, SUSPENDED OR SURFACE MOUNTED	OŞ	CONTROL, 180° COVERAGE, MOUNTED AT 46" AFF UNLESS OTHERWISE NOTED.		WORKING SPACES FOR ADDITIONAL CLEARANCE CONDITIONS.
		UNDER COUNTER LIGHT FIXTURE	0\$2	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, DUAL BUTTON ON/OFF CONTROL, 180° COVERAGE, MOUNTED AT 46" AFF UNLESS OTHERWISE NOTED.		
			οŚρ	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, DUAL BUTTON		TRANSFORMER, SIZE AS INDICATED ON DRAWING
	• •		0YD	UNLESS OTHERWISE NOTED. WATTSTOPPER DW-311 OR EQUAL.		METER
в	<u>, , , ,</u>	TRACK WITH LIGHT KIT	0\$F	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, DUAL BUTTON ON/OFF CONTROL, 180° COVERAGE, ADDITIONAL POWER SUPPLY FOR FAN OPERATION,		
	Ø	RECESSED LIGHT FIXTURE		MOUNTED AT 46" AFF UNLESS OTHERWISE NOTED.		SERVICE POLE, HUBBEL, LEGRAND, OR EQUAL, EXTRUDED ALUMINUM SERVICE POLE,
	_		\$T	CONTROL, MOUNTED AT 46" AFF UNLESS OTHERWISE NOTED.	PP	2-CHANNELS WITH CEILING TRIM, ANODIZED ALUMINUM, MULTI-SERVICE, TWO-CHANNEL POLE WITH (2) KNOCKOUTS, (2) 20AMP RECEPTACLES. ADJUSTABLE T-BAR ASSEMBLY FOR MOUNTING POLES IN MIDDLE OF CEILING, ULLUSTED, FACH POWER POLE SHOWN
	Q		<u>Р</u>	RECESSED SINGLE/DOUBLE GANG BOX WITH BLANK COVER PLATE, MOUNTED 16" AFF, UNLESS OTHERWISE NOTED		ON PLAN SHALL HAVE PROVISIONS FOR (2) DATA DROPS AND (1) VOICE DROP.
	ģ	RECESSED WALL WASH LIGHT FIXTURE	Φ	RECESSED DEDICATED/PICTURE/CLOCK SINGLE OUTLET, 120VAC, 20A, MOUNTED AS	M	ELECTRICAL MOTOR
	Ą	WALL MOUNTED LIGHT FIXTURE			<u> </u>	GROUND BUS, "E" INDICATES ELECTRICAL GROUND BAR, "TG" INDICATES TELECOMMUNICATIONS GROUND BAR
	**	EXIT SIGN, SINGLE FACE, CEILING, CHEVRON INDICATES DIRECTION	Ψ	RECEPTACLE, DUPLEX, 120VAC, 20A, MOUNTED 16" AFF, UNLESS OTHERWISE NOTED. (SEE ELECTRICAL MOUNTING HEIGHT DETAIL)		CABLE TRAY, LADDER TYPE
	♦		₽	RECEPTACLE, DUPLEX, 120VAC, 20A, MOUNTED 6" ABOVE COUNTER TOP OR BACK SPLASH.	$\frac{1}{1}$	CABLE TRAY, CENTER HUNG TYPE
	₩	EXIT SIGN, DOUBLE FACE, CEILING MOUNTED, CHEVRON INDICATES DIRECTION.	₽	RECEPTACLE, QUADPLEX, 120VAC, 20A MOUNTED 16"AFF UNLESS OTHERWISE NOTED (SEE ELECTRICAL MOUNTING HEIGHT DETAIL)		CABLE TRAY, BASKET TYPE
	₹	EXIT SIGN W/EMERGENCY LIGHTING UNIT, CEILING MOUNTED, CHEVRON INDICATES DIRECTION	. 🛨	RECEPTACLE, QUADPLEX, 120VAC, 20A, MOUNTED 6" ABOVE COUNTER TOP OR BACK SPLASH.		
	**	EXIT SIGN, SINGLE FACE, WALL/END MOUNTED, CHEVRON INDICATES DIRECTION	Ŧ	RECEPTACLE, DUPLEX, GROUND FAULT CIRCUIT INTERRUPTER TYPE, 120VAC, 20A, MOUNTED 16" AFE, LINI ESS OTHERWISE NOTED. (SEE ELECTRICAL MOUNTING HEIGHT DETAIL)		HAND HOLE, IN GRADE, TIER RATING AS INDICATED ON DRAWING
С				RECEPTACLE, DUPLEX, GROUND FAULT CIRCUIT INTERRUPTER TYPE, 120VAC, 20A,	'/////////	HATCHING INDICATES ITEMS TO BE DEMOLISHED. REMOVE DEVICE, EQUIPMENT, FIXTURE
	₹₫₹	EXIT SIGN, DOUBLE FACE, WALL/END MOUNTED, CHEVRON INDICATES DIRECTION.	ш —	MOUNTED 6" ABOVE COUNTER TOP OR BACK SPLASH.		INDICATED, CIRCUIT, AND CONDUIT BACK TO SOURCE UNLESS OTHERWISE NOTED.
		EXIT SIGN W/EMERGENCY LIGHTING UNIT, WALL/END MOUNTED, CHEVRON INDICATES	₩	RECEPTACLE, QUADPLEX, GROUND FAULT CIRCUIT INTERRUPTER TYPE, 120VAC, 20A MOUNTED 16"AFF UNLESS OTHERWISE NOTED (SEE ELECTRICAL MOUNTING HEIGHT DETAIL)	$\langle 1 \rangle$	DEMOLITION KEY NOTE SYMBOL
		DIRECTION.	#	RECEPTACLE, QUADPLEX, GROUND FAULT CIRCUIT INTERRUPTER TYPE, 120VAC, 20A, MOUNTED 6" ABOVE COUNTER TOP OR BACK SPLASH.	1	KEY NOTE SYMBOL
		EMERGENCY LIGHTING UNIT, 2-HEAD WITH BATTERY BACK-UP, WALL MOUNTED, "NOT SWITCHED"	Ŷ	RECEPTACLE, 208VAC, 2 POLE, 3 WIRE, WALL MOUNTED, SIZE AS INDICATED ON DRAWING		REVISION DELTA
	EMERGENCY LIGHTING UNIT, 2-HEAD WITH BATTERY BACK-UP, CEILING MOUNTED, "NOT SWITCHED"		Ŷ	PRECEPTACLE, 480VAC, 2 POLE, 3 WIRE, WALL MOUNTED, SIZE AS INDICATED ON DRAWINGPRECEPTACLE, DUPLEX, 120VAC, 20A CEILING MOUNTED (LAY-IN / GYPBOARD / SUSPENDED)		WIRELESS ACCESS POINT BY OWNER'S CABLING VENDOR
			Φ			
		**FOR ALL LIGHTING FIXTURE TYPES ABOVE:		RECEPTACLE, DUPLEX, 120VAC, 20A RECESSED FLOOR MOUNTED.	∇	PROVIDE BOX AND CONDUIT TO ACCESSIBLE CEILING CAVITY, CABLE BY OWNER'S VENDOR
			₽	UPS FED RECEPTACLE, DUPLEX, 120VAC, 20A, MOUNTED 16" AFF, UNLESS OTHERWISE NOTED. (SEE ELECTRICAL MOUNTING HEIGHT DETAIL)	_	
		POWER & SWITCH LEG	₽	UPS FED RECEPTACLE, QUADPLEX, 120VAC, 20A, MOUNTED 16" AFF, UNLESS		WALL TELEPHONE OUTLET, MOUNTED 60" AFF UNLESS OTHERWISE NOTED. PROVIDE 11/4"
				**FOR ALL RECEPTACLE TYPES ABOVE	\Box	CONDUIT TO ABOVE ACCESSIBLE GRID CEILING W/PULL STRING FOR OUTLETS LOCATED BELOW HARD (GYPBOARD) CEILINGS, ROUTE 1-1/4" CONDUIT TO TELEPHONE/DATA ROOM.
		PHOTOCELL, REMOTE MOUNTED, 120V, 10 SECOND TIME DELAY, UL WET LOCATION,		+XX"- INDICATES MOUNTING HEIGHT OF DEVICE IN INCHES AFF (IF GIVEN) (SEE ELECTRICAL MOUNTING HEIGHT DETAIL)	1V/1D	COMBINATION DATA/TELEPHONE OUTLET, RECESSED CEILING MOUNTED (LAY-IN / GYPBOARD)
	Ŷ	RATED FOR 1500 W @ 120 VAC AND 4000 W @ 277 VAC (FOR USE WITH LAMP SOURCE(S) SHOWN.		WP - LISTED WEATHER-RESISTANT TYPE DEVICE WITH WEATHERPROOF IN USE COVER TR - TAMPER RESISTANT	۲	LOCATED BELOW HARD (GYPBOARD) CEILINGS, ROUTE 1-1/4" CONDUIT TO TELEPHONE/DATA ROOM
	\$	SWITCH, SINGLE POLE, 120/277VAC, 20A, MOUNTED AT 46" AFF UNLESS OTHERWISE NOTED,		S - INDICATES THE TOP RECEPTACLE OF THE DEVICE IS CONTROLLED VIA WALL SWITCH H - DEVICE MOUNTED HORIZONTALLY		#V = NUMBER OF VOICE CONNECTIONS / #D = NUMBER OF DATA CONNECTIONS, IF INDICATED
		FIXTURE SWITCHING, WHEN INDICATED.	304/3/3R	U - USB IN-WALL CHARGER		COMBINATION POWER/DATA BOX, RECESSED FLOOR MOUNTED (POKE-THROUGH). PROVIDE
D	\$3	3-WAY SWITCH, 120/277 VAC, 20A, MOUNTED AT 46" AFF UNLESS OTHERWISE NOTED SEE ELECTRICAL DEVICES MOUNTING HEIGHT DETAIL. LOWER CASE LETTER INDICATES FIXTURE	00,0,0,0 W/ 30AF 다	DISCONNECT SWITCH, FUSED, HEAVY DUTY, SIZE AS INDICATED ON DRAWINGS ##A = DISCONNECT SIZE / # = NUMBER OF POLES / # = NEMA RATING, / ##AF = FUSE SIZE	Ŭ	STRING IN CONDUIT.
	\$4	SWITCHING, WHEN INDICATED. 4-WAY SWITCH 120/277 VAC, 20A, MOUNTED AT 46" AFF UNLESS OTHERWISE NOTED SEE	СВ	ENCLOSED BREAKER, HEAVY DUTY, SIZE AS INDICATED ON DRAWINGS		COMBINATION POWER/DATA/TELEPHONE BOX, RECESSED FLOOR MOUNTED (CAST-IN-PLACE). PROVIDE BRASS COVER PLATE WITH FLUSH ACCESS COVERS FOR EACH PLUG IN
		ELECTRICAL DEVICES MOUNTING HEIGHT DETAIL. LOWER CASE LETTER INDICATES FIXTURE SWITCHING, WHEN INDICATED.		##A = BREAKER SIZE / # = NUMBER OF POLES / # = NEMA RATING VARIABLE FREQUENCY DRIVE (VFD)		CONNECTION. PROVIDE PULL STRING IN CONDUIT. SEE DETAIL #, SHEET E### #V = NUMBER OF VOICE CONNECTIONS / #D = NUMBER OF DATA CONNECTIONS; 1"CND
	६ ६	INDICATES BI-LEVEL SWITCHING, 1 SWITCH SWITCHES OUTSIDE LAMPS, 1 SWITCH SWITCHES INSIDE LAMPS. SEE ELECTRICAL DEVICES MOUNTING HEIGHT DETAIL. LOWER CASE LETTER	"Equip" #AMP HMCP		2G	#G = GANG FLOOR BOX WITH TWO DUPLEX RECEPTACLES, VOICE AND DATA
		INDICATES FIXTURE SWITCHING, WHEN INDICATED.	(#HP) 🛛 NEMA #	STARTER, FULL VOLTAGE, SIZE AS INDICATED ON DRAWINGS	MID FBX	4 GANG FLOOR BOX WITH DUPLEX RECEPTACLE AND DATA CAPABILITIES (CONFIRM WITH OWNER FOR REQUIREMENTS). PROVIDE METALLIC IN-USE COVER (HUBBELL CFB4G30CR
	\$ _{WP}	WEATHERPROOF SWITCH, SINGLE POLE 120/277 VAC, 20A, MOUNTED AT 46" AFF UNLESS OTHERWISE NOTED.	"Equip" #AMP	COMBINATION STARTER WITH CIRCUIT BREAKER DISCONNECT. FULL VOLTAGE, SIZE AS		OR EQUIVALENT).
	D\$	DIMMER SWITCH, 0-10V OR LINE VOLTAGE RATING AS REQUIRED BY LIGHTING FIXTURE(S). LINE VOLTAGE RATED DIMMERS MUST BE 1500W FOR 120 VAC AND 4000W 277VAC MINIMUM.	HMCP (#HP)	INDICATED ON DRAWINGS	모	JUNCTION BOX - WALL MOUNTED +##" - INDICATES MOUNTING HEIGHT OF DEVICE IN INCHES AFF (if given)
	AFC\$	ADJUSTABLE FAN CONTROL, 120/277VAC, SINGLE POLE, 20A, MOUNTED AT 46" AFF UNLESS	NEMA [®] # M\$##	MANUAL MOTOR STARTER, ELECTRICAL CONTRACTOR SHALL COORDINATE POLES	Q	JUNCTION BOX - CEILING/ABOVE CEILING MOUNTED
		OTHERWISE NOTED, SEE ELECTRICAL DEVICES MOUNTING HEIGHT DETAIL. LOWER CASE LETTER INDICATES FIXTURE SWITCHING, WHEN INDICATED	₩ ₩	## = AMPERAGE RATING WHEN INDICATED ON DRAWING	J	JUNCTION BOX - FLOOR MOUNTED
			●	1 BUITON CONTROLLER		
	AFF ABOV	E FINISHED FLOOR CS CONTROL SWITCH E FINISHED GRADE CV CONTROL VALVE	515 I AN I	FA FIRE ALARM HIGH VOLTAGE FAAP FIRE ALARM ANNUNCIATOR PANEL Hz HERTZ FACP FIRE ALARM CONTROL PANEL IMC INTERMEDIATE N	METALLIC CONDUIT	MEO MAIN LUGS ONLY PH,φ MTD MOUNTED PLC MTG MOUNTING PNI
E	AHU AIR H AIC AMPE	ANDLING UNIT CT CURRENT TRANSFORMER RE INTERRUPTING CAPACITY CU COPPER		FBOFURNISHED BY OTHERSINCANDINCANDESCENTFLAFULL LOAD AMPSJBJUNCTION BOX		MTS MANUAL TRANSFER SWITCH PP MV MEDIUM VOLTAGE PT
	ATS AUTO AWG AMER	MATIC TRANSFER SWITCHDCDIRECT CURRENTCICAN WIRE GAUGEDIDOOR INTERLOCK		FLUORFLUORESCENTKTHOUSANDFLRFLOORKcmilTHOUSAND CIRC	CULAR MILLS	N, NEUT NEUTRAL PWR N/A NOT APPLICABLE RECPT
	BOF BOTTO BRKR BREA	DISC SW DISCONNECT SWITCH KER DN DOWN		FWEFURNISHED WITH EQUIPMENTKVAKILOVOLT AMPELGENGENERATORKWKILOWATTSC. CNDCROUNDKWKILOWATTS	KE	NCNORMALLY CLOSEDREQ'DNECNATIONAL ELECTRIC CODERGSNICNOT IN CONTRACTTOTO
	CAB CABIN	EF EXHAUST FAN IET EM IOG EMT		GFU GROUND KWH KILOWATT-HOUF GFI, GFCI GROUND FAULT CIRCUIT INTERRUPTER LP LIGHTING PANEL	., LIGHT POLE	NIC NOT IN CONTRACT RM NL NIGHT LIGHT RTU NO NORMALLY OPEN SOR
	CL CHLO CB CIRCL	RINE ENCL ENCLOSURE JIT BREAKER EPO EMERGENCY POWER OFF		HIDHIGH INTENSITY DISCHARGEMCBMAIN CIRCUIT BEHOAHAND-OFF-AUTOMCCMOTOR CONTROL	REAKER DL CENTER	NTS NOT TO SCALE SH P POLE SM
	CCTV CLOS CKT CIRCU	ED CIRCUIT TELEVISION EQ, EQIP EQUIPMENT JIT EWC ELECTRIC WATER COOLER		HPHORSE POWERMCPMOTOR CIRCUITHPFHIGH POWER FACTORMDPMAIN DISTRIBUT	PROTECTOR	PAPUBLIC ADDRESSSPECPBPULL BOX, PUSH-BUTTONSS
	CLG CEILIN CP CONT	NGEWHELECTRIC WATER HEATERROL PANELEPRFEXPLOSION PROOF		HPSHIGH PRESSURE SODIUMMFRMANUFACTUREFHTRHEATERMHMANHOLE	≺	PF POWER FACTOR SST
		1 2		3		4

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SYMBOL

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ES

DESCRIPTION

EQUIVALENT.

ELECTRIC STRIKE

TV2MW OR APPROVED EQUIVALENT.





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WALL MOUNTED DOUBLE GANG BOX FOR TELEVISION MOUNTED AT 72" AFF UNLESS NOTED

CEILING MOUNTED DOUBLE GANG BOX FOR TELEVISION RECESSED IN CEILING. BOX SHALL HAVE DUPLEX RECEPTACLE AND DATA CONNECTIONS FOR TELEVISION AS DIRECTED BY OWNER/CLIENT/TENANT. BOX SHALL BE PASS & SEYMOUR TV2MW OR APPROVED

OTHERWISE. BOX SHALL HAVE DUPLEX RECEPTACLE AND DATA CONNECTIONS FOR TELEVISION AS DIRECTED BY OWNER/CLIENT/TENANT. BOX SHALL BE PASS & SEYMOUR

Phone: 910.791.4000 Fax: 910.791.5266 www.cbhfengineers.com NC# P-0506



	₩ 53	MAGNETIC LOCK			R R C V G IN	E E A TIN
					MANNA N	
	E B B					02/09/20
	₩ ►- ^{WP}					
			NDICATES WEATHERPROOF			
	s					
	I					
		FLOOR MOUNTED DATA RACK				
		WALL MOUNTED DATA RACK			ensity	
	0 00	PROJECTOR PAN, CEILING MOUN	NTED		th De	Floor
		1 HOUR RATED FIRE WALL			sal ne	2nd 412
		1 HOUR RATED FIRE WALL - EXIS	STING	.	jt S ⊣e	2% 287
		2 HOUR RATED FIRE WALL				- ŠO
	✦✦ (X)	2 HOUR RATED FIRE WALL - EXIS	STING			n, N
		3 HOUR RATED FIRE WALL			it d	gto
		3 HOUR RATED FIRE WALL - EXIS	STING	·	nir Su	ery
	ОНР (Х)ОНР	OVERHEAD PRIMARY CONDUCTO	ORS ORS - EXISTING		Viln gra	Gall Wilr
	UGP (X)UGP	UNDERGROUND PRIMARY COND UNDERGROUND PRIMARY COND	DUCTORS DUCTORS - EXISTING			1124
	OHS (X)OHS	OVERHEAD SECONDARY CONDL OVERHEAD SECONDARY CONDL	JCTORS JCTORS - EXISTING		m	\mathbf{r}
	UGS (X)UGS	UNDERGROUND SECONDARY CO UNDERGROUND SECONDARY CO	ONDUCTORS ONDUCTORS - EXISTING		Ň	
	—— G ——	COPPER CLASS 1 CONDUCTOR (ON ROOF			
))	——— GA ———	ALUMINUM CLASS 1 CONDUCTO	R ON ROOF			
,		COPPER CLASS 1 CONDUCTOR I	BELOW GRADE			
D	c	CONTROL CABLE CONDUIT				
	\otimes	GROUND ROD, COPPER, 3/4"DIA	x 10'-0" LONG			
L	• •	COPPER AIR TERMINAL IN BRON	IZE BASE			
).	• •	ALUMINUM AIR TERMINAL IN ALL	JMINUM BASE	REV	. DATE DESCR	RIPTION
	T	226V - STYLE THRU-ROOF CONN	IECTOR (TYPE T)			
	1	230V - STYLE THRU-ROOF CONN	IECTOR (TYPE T1)			
	■ "BM"	LIGHTNING CONDUCTOR CABLE	CONNECTOR			
	\bigcirc	GROUNDING ELECTRODE COND	OUCTOR, 10' COILED ABOVE GRADE			NOTE
				Pro	ject Manager D	rawn By
					JRB A	
	(SYMBOLS SHO	WN ARE FOR REFERENCE ONLY AN	ID MAY NOT IMPLY CONTRACTUAL REQUIREMENTS)		02.09.2024	RDM
				Pro	ject ID	
	PROGRAMMABLE	LOGIC CONTROLLER	SW SWITCH SWBD SWITCHBOARD	She	et Title	
	PANEL POWER PANEL, P		TEL TELEPHONE		ELECTF	RICAL
	POTENTIAL TRAN POWER	SFORMER	IPS TWISTED PAIR SHIELDED TVSS, SPD TRANSIENT VOLTAGE SURGE SUPPRESSEF		ABBREVIA	ATIONS
T,R()	CP RECEPTACLE REQUIRED		TYP TYPICAL UG, UGND UNDERGROUND		& LEGI	END

- RIGID GALVANIZED STEEL CONDUIT

- RIGID GALVANIZED STEEL CO ROOM REMOTE TELEMETRY UNIT DC MOTOR DRIVE SHEET SURFACE MOUNTED SPECIFICATION SELECTOR SWITCH STAINLESS STEEL

6

WATT-HOUR WEATHERPROOF

TRANSFORMER EXISTING

UNIT HEATER

WIRE, WATT

UTILITY VOLTS

UNLESS OTHERWISE NOTED

VARIABLE FREQUENCY DRIVE

Sheet No.

E-0.1

UH UON UTIL V VFD

W

WH WP XFMR (X)

		1	2	
	El	ECTRICAL GENERAL NOTES:		
	1.	ALL ELECTRICAL WORK SHALL BE IN FULL COMPLIANCE WITH NFPA 70 (SPECIFICALLY INCLUDING ART. 517, ETC.) FOR SPECIAL OCCUPANCIES IN CHAPTER 5, THE [NORTH CAROLINA] STATE BUILDING CODE, ALL LOCAL CODES AND ORDINANCES AND IN ACCORDANCE WITH THE	30. FINAL TYPED PANELBOARD DIRECTORIES I INCLUDE FINAL ACTUAL ROOM NAMES AND SHOWN ON THE PANEL SCHEDULES ON TH	INSTALLE) NUMBEF IE DRAWI
4	2.	REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION. ALL EQUIPMENT PROVIDED BY THE CONTRACTOR SHALL BE LISTED AND LABELED BY A NATIONALLY-RECOGNIZED TESTING AGENCY, ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, FOR THE CONDITIONS OF INSTALLATION. ALL MATERIAL, EQUIPMENT AND DEVICES SHALL BE NEW CURRENT PRODUCTS OF MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF SUCH PRODUCTS. EQUIPMENT SHALL BE SUITABLE FOR ITS APPLICATION (E.G.	31. CONDUCTOR SIZING IS BASED ON 75 DEGR OTHERWISE. THE CONTRACTOR SHALL VE CONDUIT FEEDING ANY EQUIPMENT, THE E DEGREE C. WIRING. IF ANY EQUIPMENT IS CONDUCTORS, THE CONTRACTOR SHALL N EVALUATION/CORRECTION.	REE C. CC ERIFY, PR ELECTRIC RATED F NOTIFY TI
	3.	WHEN INSTALLED OUTDOORS, IT SHALL BE WEATHERPROOF, ETC.) THE CONTRACTOR SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS FOR WORK REQUIREMENTS, THE AMOUNT OF SPACE AVAILABLE FOR ELECTRICAL EQUIPMENT, AND LAYOUT	32. DO NOT PULL CONDUCTORS UNTIL THE CO CASE OF CONCEALED WORK, "COMPLETE" HAS BEEN COMPLETED.	NDUIT S' MEANS L
	4.	HIS WORK IN A COMPATIBLE AND COMPLEMENTARY MANNER. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THOROUGHLY FAMILIARIZING HIMSELF WITH ANY CONTRACTUAL REQUIREMENTS AS MAY BE SET FORTH IN THE OTHER DIVISIONS OF	33. WHERE SIZE IS NOT SHOWN ON THE DRAW AWG MINIMUM PHASE, NEUTRAL AND EQUI RACEWAY. REFER TO THE "MINIMUM COND	/INGS, BF
_	5.	UNLESS SPECIFICATIONS. UNLESS SPECIFICALLY NOTED OTHERWISE, SYSTEMS PROVIDED OR INSTALLED BY THE ELECTRICAL CONTRACTOR SHALL BE COMPLETE AND FULLY-FUNCTIONING AFTER INSTALLATION. INCIDENTAL COMPONENTS MAY NOT BE SHOWN, AND ALL WORK WHICH MAY BE REASONABLY IMPLIED AS BEING INCIDENTAL TO THIS WORK, BUT REQUIRED FOR THE PROPER OPERATION OF THE EQUIPMENT OR SYSTEM, SHALL BE PROVIDED BY THE CONTRACTOR AND INCLUDED IN THE BID. ADDITIONAL CIRCUITS SHALL BE INSTALLED WHEREVER NEEDED TO CONFORM TO THE	 34. KEEP CONDUCTOR SPLICES TO A MINIMUM EQUIVALENT OR BETTER MECHANICAL STR BEING SPLICED. USE SPLICE AND TAP CON INSTALL CONDUCTORS AT EACH OUTLET W OUTLETS AND COMPONENTS TO WIRING AN MANUFACTURER. 	RED TO M 1. INSTAL RENGTH A NECTOR VITH AT L ND TO GF
	6.	SPECIFIC REQUIREMENTS OF EQUIPMENT. TEMPORARY POWER CONNECTIONS AS REQUIRED SHALL BE PROVIDED BY THE CONTRACTOR AND INCLUDED IN THE BID. ALL TEMPORARY EQUIPMENT WIRING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. THE CONTRACTOR SHALL PROVIDE DETAILS, METHODS, MATERIALS, ETC. FOR REVIEW PRIOR TO MAKING TEMPORARY CONNECTIONS. FURNISH AND INSTALL ALL EQUIPMENT AND MATERIALS INCLUDING CONTROL EQUIPMENT, MOTOR STARTERS, BRANCH AND FEEDER CIRCUIT BREAKERS, PANELBOARDS, TRANSFORMERS, ETC. FOR	 35. DO NOT SPLICE BRANCH CIRCUIT HOMERU ARCHITECT/ENGINEER. HOMERUNS SHALL SERVING PANELBOARD. 36. DO NOT COMBINE BRANCH CIRCUIT HOMEF DRAWINGS. 	INS WITH
	7.	TEMPORARY POWER. COORDINATE WITH THE ELECTRICAL UTILITY COMPANY AS REQUIRED. THE WORK SHALL INCLUDE COMPLETE TESTING OF ALL EQUIPMENT AND WIRING AT THE	37. DO NOT CHANGE CIRCUITING SHOWN WITH38. TROUGH TAPS SHALL BE AT SWITCH AMPA	HOUT PEF
	8.	FOR THE PROPER FUNCTIONING OF THE SYSTEM AND EQUIPMENT. ALL EQUIPMENT SHOWN DOTTED OR DASHED IS BY OTHERS OR IS EXISTING, AS NOTED.	39. INSTALL WIRING DEVICES AT HEIGHTS AS S MOUNTING HEIGHTS WITH THE ARCHITECT CONFLICTING, ARCHITECTURAL DRAWINGS	SHOWN C TURAL DR S AND DE
	9.	ALL ELECTRICAL EQUIPMENT SHALL, AT ALL TIMES DURING CONSTRUCTION, BE ADEQUATELY PROTECTED AGAINST MECHANICAL INJURY, OR DAMAGE BY WATER AND/OR THE ELEMENTS. ELECTRICAL EQUIPMENT SHALL NOT BE STORED OUT OF DOORS, BUT SHALL BE STORED IN DRY PERMANENT SHELTERS. IF AN APPARATUS HAS BEEN DAMAGED, OR HAS BEEN SUBJECT TO POSSIBLE INJURY BY WATER OR THE ELEMENTS, SUCH DAMAGE SHALL BE REPLACED AT NO	40. PROVIDE GROUND FAULT CIRCUIT-INTERRU WITH THE NEC INCLUDING ALL ELECTRIC W RECEPTACLES IN AREAS SUBJECT TO POS WITHIN 6 FEET OF A SINK SHALL BE GFI PRO KITCHENS SHALL BE GFI PROTECTED.	UPTER PI VATER CC SIBLE WE OTECTEL
	10.	DO NOT SCALE ELECTRICAL DRAWINGS. REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS.	41. IN AREAS IN WHICH DUAL LEVEL SWITCHING GANGED SWITCHES), PROVIDE THE APPRO FUNCTION (AS TYPICALLY SHOWN).	G IS INDI PRIATE N
	11.	CIRCUIT LAYOUTS ARE NOT INTENDED TO SHOW THE NUMBER OF FITTINGS, OR OTHER INSTALLATION DETAILS. UNLESS NOTED OTHERWISE, THE EXACT ROUTING OF FEEDER AND BRANCH CIRCUIT RACEWAYS AND CABLES IS THE RESPONSIBILITY OF THE CONTRACTOR. RISER	42. CONNECT BATTERY PACK TYPE EMERGEN CIRCUIT SERVING THE SPACE LIGHTED BY CONNECTIONS ARE INTENTIONALLY NOT S	CY AND E THE EME
		AND GENERAL CIRCUIT ARRANGEMENTS ARE SHOWN SCHEMATICALLY/DIAGRAMMATICALLY ONLY. THE CONTRACTOR SHALL ROUTE CONDUITS AS REQUIRED BY THE CONDITIONS OF THE INSTALLATION.	43. COORDINATE LIGHTING FIXTURE LOCATION PLAN. IF CONFLICTS ARE NOTED, REQUES BEFORE PROCEDING.	NS WITH T CLARIF
	12.	UNLESS DIMENSIONED, DEVICE LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. ADJUST EXACT LOCATIONS AS REQUIRED TO SERVE THE INTENDED PURPOSE AND TO AVOID CONFLICTS AND INTERFERENCES WITH OTHER TRADES. EXACT DEVICE LOCATIONS SHALL BE AS INDICATED ON THE ARCHITECTURAL DRAWINGS OR AS DIMENSIONED. IF NOT SHOWN ON THE	44. ADJACENT SWITCHES SHALL BE GANGED. SECTIONS.	INSTALL
		ARCHITECTURAL DRAWINGS OR DIMENSIONED ON THE ELECTRICAL DRAWINGS, VERIFY EXACT LOCATION WITH THE ARCHITECT/ENGINEER PRIOR TO ROUGH-IN.	45. SEPARATE NEUTRALS ARE REQUIRED FOR46. WHERE THE DRAWINGS INDICATE A LIGHTI	ALL DIMI
	13.	CONDUIT TERMINATING IN PRESSED STEEL BOXES SHALL HAVE DOUBLE LOCKNUTS AND INSULATED BUSHINGS. CONDUITS TERMINATING IN GASKETED ENCLOSURES SHALL BE TERMINATED WITH GROUNDING TYPE CONDUIT HUBS.	FEATURES/SWITCHING (DIMMING, EMERGE CONTRACTOR SHALL PROVIDE THESE FIXT ACCOMMODATE THE SPECIAL FEATURE. T INDICATED IN THE LIGHTING FIXTURE SCHE	ENCY BAT TURES WI THE CONT EDULE WI
	14.	DEVICE BOXES SHOWN BACK-TO-BACK SHALL BE OFFSET A MINIMUM OF TWELVE (12) INCHES TO REDUCE SOUND TRANSMISSION BETWEEN ROOMS.	NOTES. 47. COORDINATE LOCATIONS OF PLUMBING, M	IECHANIC
	15.	BRANCH CIRCUIT HOMERUNS SHOWN ON DRAWINGS INDICATE PHASE CONDUCTORS, NEUTRAL, EQUIPMENT GROUND CONDUCTORS AS REQUIRED. ADDITIONAL CONDUCTORS REQUIRED FOR CONTROL SHALL BE INCLUDED EVEN IF NOT EXPLICITLY SHOWN.	TELEPHONE AND AUDIO/VISUAL EQUIPMEN RESPECTIVE CONTRACTORS AND VENDOR LIGHTING FIXTURES, RECEPTACLES AND EI EQUIPMENT. ADVISE THE ARCHITECT/ENG	NT AND OI RS AND TH LECTRIC/
	16. 17.	SEAL ALL CONDUIT OPENINGS THROUGH EXTERIOR BUILDING WALLS WATERTIGHT. IN WET LOCATIONS AND EXTERIOR, ALL WIRING DEVICES SHALL BE WEATHER-RESISTANT LISTED WITH WEATHERPROOF WHILE IN USE COVER. LIGHTING FIXTURES SHALL BE APPROPRIATELY RATED AND LISTED FOR THE ENVIRONMENT INCLUDING 0 DEGREE BALLASTS FOR FLUORESCENT.	48. BEFORE COMMENCING WORK OR ORDERIN WITH OTHER TRADES AND VERIFY THE NAM HEATERS, COMPRESSORS, ETC.) AND ADJU (SWITCHES, FUSES, CIRCUIT BREAKERS, FE EQUIPMENT.	NG MATEF MEPLATE JST THE I EEDERS,
	18.	RACEWAYS PENETRATING FLOORS, CEILINGS OR WALLS SHALL BE PROPERLY SEALED SMOKETIGHT.	49. ENERGIZE EQUIPMENT ONLY AFTER OBTAIL THE EQUIPMENT.	NING PEF
	19.	RACEWAYS PENETRATING RATED FLOOR, CEILING OR WALL ASSEMBLIES SHALL BE PROPERLY SEALED IN ACCORDANCE WITH THE CORRESPONDING UNDERWRITERS LABORATORIES (OR OTHER APPROVED THIRD PARTY TESTING AGENCY) APPROVED AND LISTED FIRESTOPPING MATERIALS AND MANUFACTURER APPROVED INSTALLATION TECHNIQUES COMPLYING WITH ALL APPLICABLE CODES. SEE ARCHITECTURAL DRAWINGS FOR IDENTIFICATION OF RATED WALLS AND CEILINGS.	50. UNLESS SPECIFICALLY NOTED OTHERWISE CONNECTIONS TO ALL UTILIZATION EQUIPM FINAL CONNECTION AND PROVIDE APPROP CONTRACTOR SHALL COORDINATE WITH T CONTRACTORS, PRIOR TO ORDERING OR II MECHANICAL AND PLUMBING EQUIPMENT F	E, THE EL MENT SHO PRIATE W THE MECH NSTALLA REQUIRE
	20.	LIGHTING FIXTURES, SPEAKER ASSEMBLIES, ETC. MOUNTED IN FIRE-RATED CEILINGS SHALL BE PROVIDED WITH UL-LISTED, PRE-FABRICATED OR FIELD FABRICATED SHROUDS/ACCESSORIES NECESSARY TO MAINTAIN THE CEILING FIRE RATING.	DESIGN. THE CONTRACTOR WILL NOT BE O CHANGING THE ELECTRICAL SYSTEMS TO I ELECTRICAL WORK IS INSTALLED PER THE	COMPENS MATCH U ELECTRI
	21.	ALL RACEWAYS SHALL BE CONCEALED WHERE POSSIBLE IF APPLICABLE, MATCH EXISTING RACEWAY INSTALLATION METHODS AND ROUTINGS AT OR NEAR EXISTING FACILITIES.	51. THE MECHANICAL AND PLUMBING CONTRA FOR THEIR EQUIPMENT. THE ELECTRICAL THE MECHANICAL AND PLUMBING CONTRA	CTORS S CONTRAC
	22.	INSTALL EXPOSED RACEWAYS PARALLEL TO OR AT RIGHT ANGLES TO NEARBY SURFACES OR STRUCTURAL MEMBERS, AND FOLLOW THE SURFACE CONTOURS AS MUCH AS POSSIBLE. NO DIAGONAL RUNS WILL BE ALLOWED. ALL CONDUITS SHALL BE RUN STRAIGHT AND TRUE. RUN PARALLEL OR BANKED RACEWAYS TOGETHER ON COMMON SUPPORTS WHERE PRACTICAL. MAKE BENDS IN PARALLEL OR BANKED RUNS FROM SAME CENTERLINE TO MAKE BENDS PARALLEL.	SAFETY SWITCHES, WIRING AND CONNECT SAFETY SWITCHES COMPLETE TO MECHAN WHERE STARTERS OR CONTACTORS ARE I PROVIDE ALL POWER WIRING AND CONNEC AND PLUMBING CONTRACTORS SHALL PRO DEVICES FOR THEIR FOUIPMENT	TIONS TO NICAL EQ NOT REQ CTIONS C DVIDE AL
	23.	USE FLUSH MOUNTING OUTLET BOXES IN FINISHED AREAS AND FOR EXTERIOR DEVICES/LIGHT FIXTURES UNLESS NOTED OTHERWISE.	52. THE ELECTRICAL CONTRACTOR SHALL COC CORDSETS WITH VENDOR EQUIPMENT AND	ORDINAT D VERIFY
	24.	PROVIDE AND PLACE ALL SLEEVES FOR CONDUITS PENETRATING WALLS, FLOORS, PARTITIONS, ETC. LOCATE ALL NECESSARY SLOTS FOR ELECTRICAL WORK AND FORM BEFORE CONCRETE IS POURED.	EQUIPMENT WITH CASEWORK PRIOR TO RO	OUGH-IN.
	25.	PATCHING OF WATERPROOFED SURFACES SHALL RENDER THE AREA OF THE PATCHING COMPLETELY WATERPROOF.	RECHANICAL EQUIPMENT ROOMS IS BASEL FOLLOWED AS CLOSELY AS POSSIBLE. DE' RESPONSIBILITY OF THE CONTRACTOR. PF	D ON PUE VIATIONS ROVIDE N
	26.	ALL MOTORS AND OTHER VIBRATING EQUIPMENT SHALL BE CONNECTED TO THE CONDUIT SYSTEM BY MEANS OF A SHORT SECTION (18 INCH MINIMUM) OF FLEXIBLE CONDUIT UNLESS OTHERWISE INDICATED. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED INSIDE THE FLEXIBLE CONDUIT AND TERMINATE AT THE LOAD END WITH AN APPROVED GROUNDING CLAMP OR LUG.	 54. TELECOMMUNICATIONS AND DATA CABLES VENDOR. LEAVE PULL WIRES OR ROPES O 	INATE RE ER OF CC S WILL BE DF ADEQU
	27.	SURFACE MOUNTED PANELBOARDS, JUNCTION, OUTLET AND PULL BOXES, RACEWAYS, ETC., INSTALLED ON EXTERIOR SURFACES OR INSIDE ON EXTERIOR WALLS SHALL BE SUPPORTED BY SPACERS TO PROVIDE A 1/4" MINIMUM CLEARANCE BETWEEN THE WALL AND EQUIPMENT.	55. EXACT SPACING OF SMOKE AND HEAT DET CLOSELY AS POSSIBLE WITH POSITIONS SH	ECTORS
	28.	CEILING MOUNTED DEVICES INSTALLED IN ACOUSTICAL TILE CEILING AREAS SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE WITH RODS OF SUFFICIENT SIZE TO PREVENT VERTICAL MOVEMENT OF THE OUTLET BOX. BRIDGES ALONE ARE NOT ADEQUATE UNLESS SPECIFICALLY APPROVED. CEILING MOUNTED EXIT LIGHT FIXTURES SHALL BE INSTALLED LEVEL. DO NOT SUPPORT DEVICES FROM ACCOUSTICAL CEILING TILE.	BASED UPON NFPA 72 INCLUDING APPENDI IF REQUIRED BY FIELD CONDITIONS, BUT S EQUIPMENT MANUFACTURERS SPACING CF FEET OF SUPPLY AIR DIFFUSERS OR RETUR SMOKE AND HEAT DETECTORS OF ADEQUA FOUR FEET FROM POSITION INDICATED ON	IX A. SLIC PACING S RITERIA. RN GRILL ATE LENG I DRAWIN
	29.	PROVIDE ADHESIVE BACKED RECEPTACLE AND SWITCH/DIMMER/OCCUPANCY SENSOR DEVICE PLATE LABELS IDENTIFYING THE PANEL AND CIRCUIT FEEDING THE DEVICE. LABELS SHALL INDICATE PANEL AND CIRCUIT NUMBER. SEE SPECIFICATIONS SECTION 260553 FOR REQUIREMENTS.		

TALLED IN THE PANELBOARD DOOR POCKET SHALL IMBERS IN ADDITION TO THE GENERAL DESCRIPTION PRAWINGS.

C. COPPER NEC RATINGS, UNLESS NOTED Y, PRIOR TO INSTALLATION OF CONDUCTORS OR CTRICAL EQUIPMENT IS RATED FOR USE WITH 75 TED FOR USE WITH LESS THAN 75 DEGREE C. IFY THE ARCHITECT/ENGINEER IMMEDIATELY FOR

UIT SYSTEM IS COMPLETE IN EVERY DETAIL. IN THE ANS UNTIL ALL ROUGH PLASTERING OR MASONRY

GS, BRANCH CIRCUITS SHALL CONSIST OF #12 OR #10 ENT GROUND CONDUCTORS IN 1/2" MINIMUM TORS SIZE CHART:" ON THE DRAWINGS AND TO MAINTAIN A MAXIMUM OF 3% VOLTAGE DROP.

NSTALL SPLICES AND TAPES THAT POSSESS GTH AND INSULATION RATINGS THAN CONDUCTORS CTORS COMPATIBLE WITH CONDUCTOR MATERIAL. H AT LEAST 6 [12] INCHES OF SLACK. CONNECT TO GROUND AS INDICATED AND INSTRUCTED BY THE

WITHOUT THE PERMISSION OF THE CONTINUOUS FROM THE LAST OUTLET BOX TO THE

IS UNLESS SPECIFICALLY INDICATED ON THE

PERMISSION OF THE ARCHITECT/ENGINEER.

, UNLESS NOTED OTHERWISE.

WN ON THE DRAWINGS. ALSO COORDINATE AL DRAWINGS AND CASEWORK DETAILS. IF ND DETAILS SHALL GOVERN.

TER PROTECTION FOR PERSONNEL IN ACCORDANCE ER COOLERS, EXTERIOR RECEPTACLES AND LE WET CONDITIONS. ALL RECEPTACLES INSTALLED ECTED. ALL RECEPTACLES IN NON-RESIDENTIAL

INDICATED (TYPICALLY BY 2 OR MORE ADJACENT, ATE NUMBER OF CONDUCTORS TO FACILITATE THIS

AND EXIT LIGHTING TO THE UNSWITCHED LIGHTING E EMERGENCY AND EXIT FIXTURES. THESE WN TO MAINTAIN DRAWING FOR CLARITY.

WITH THE ARCHITECTURAL REFLECTED CEILING LARIFICATION FROM THE ARCHITECT/ENGINEER

TALL BARRIERS BETWEEN UNLIKE VOLTAGE

DIMMED LIGHTING CIRCUITS.

FIXTURE IS TO BE PROVIDED WITH SPECIAL Y BATTERY BALLAST, MULTI-LEVEL, ETC), THE ES WITH THE APPROPRIATE BALLASTING TO CONTRACTOR SHALL PROVIDE THE FIXTURES AS LE WITH MODIFICATIONS AS REQUIRED BY DRAWING

HANICAL, ELEVATOR, FOOD SERVICE, DATA AND ND OF OWNER-PROVIDED EQUIPMENT WITH THE ND THE OWNER BEFORE ROUGH-IN. ADJUST CTRICAL EQUIPMENT TO ACCOMMODATE THIS ER OF CONFLICTS BEFORE ROUGH-IN

MATERIALS, THE CONTRACTOR SHALL COORDINATE PLATE RATINGS OF ALL EQUIPMENT (MOTORS, THE RATINGS OF THE ELECTRICAL EQUIPMENT DERS, ETC.) AS APPROPRIATE TO SERVE THIS

G PERMISSION FROM THE CONTRACTOR PROVIDING

HE ELECTRICAL CONTRACTOR SHALL MAKE FINAL NT SHOWN ON THE DRAWINGS. VERIFY THE TYPE OF ATE WIRING METHOD. THE ELECTRICAL MECHANICAL, PLUMBING AND GENERAL FALLATION OF ANY EQUIPMENT, TO VERIFY

UIREMENTS ARE PROVIDED IN THE ELECTRICAL IPENSATED FOR COSTS ASSOCIATED WITH TCH UTILIZATION EQUIPMENT, EVEN IF THE ECTRICAL DRAWINGS.

ORS SHALL FURNISH ALL STARTERS AND CONTROLS NTRACTOR SHALL MOUNT STARTERS FURNISHED BY ORS, THE ELECTRICAL CONTRACTOR PROVIDE ALL NS TO LINE SIDE AND LOAD SIDE OF STARTERS AND AL EQUIPMENT. FOR RESISTANCE TYPE LOADS T REQUIRED, THE ELECTRICAL CONTRACTOR SHALL ONS COMPLETE TO EQUIPMENT. THE MECHANICAL DE ALL CONTROL WIRING AND CONNECTIONS AND

DINATE ALL EQUIPMENT TERMINATIONS, PLUGS AND ERIFY ALL DEVICE LOCATIONS FOR SPECIALITY

L DISTRIBUTION EQUIPMENT IN ELECTRICAL AND N PUBLISHED EQUIPMENT SIZES AND SHALL BE TIONS FROM CONFIGURATIONS SHOWN IS THE /IDE NATIONAL ELECTRIC CODE REQUIRED NT, PANELBOARDS, TRANSFORMERS, SAFETY TE RESOLUTION OF CONFLICTS WITH OTHER OF CONFLICTS BEFORE ROUGH-IN.

ILL BE PROVIDED AND INSTALLED BY THE OWNER'S DEQUATE TENSILE STRENGTH IN ALL EMPTY

TORS AND A/V DEVICES SHALL BE FOLLOWED AS WN ON THE DRAWINGS. DETECTOR SPACING IS A. SLIGHT ADJUSTMENTS MAY BE MADE IN SPACING CING SHALL NOT EXCEED ADA, NFPA AND ERIA. DO NOT INSTALL SMOKE DETECTORS WITHIN 3 GRILLES. PROVIDE FLEX CONDUIT CONNECTION TO LENGTH TO ALLOW HORIZONTAL ADJUSTMENT OF RAWINGS. 56. SHOP DRAWINGS MUST BE SUBMITTED BY THE FIRE ALARM CONTRACTOR COMPLYING WITH THE FIRE ALARM PLAN REVIEW REQUIREMENTS POLICY - JANUARY 2006 BEFORE PERMITTING BY THE WILMINGTON FIRE DEPARTMENT. THESE DRAWINGS DO NOT CONSTITUTE APPROVAL AND MAY CHANGE AFTER A FULL REVIEW BY THE WILMINGTON FIRE DEPARTMENT. A SEPARATE PERMIT MUST BE OBTAINED PRIOR TO INSTALLATION.

57. COORDINATE FIRE ALARM SYSTEM MODIFICATIONS WITH THE LANDLORD AND THE LANDLORD'S FIRE ALARM SYSTEM VENDOR. THE EXISTING SYSTEM SHALL REMAIN OPERATIONAL AT ALL TIMES UNLESS PRIOR ARRANGEMENTS HAVE BEEN MADE WITH THE OWNER.

58. INSTALLATION INFORMATION PACKED WITH LIGHTING FIXTURES, DEVICES AND EQUIPMENT SHALL BE RETAINED FOR INCLUSION IN THE OPERATIONS AND MAINTENANCE MANUALS.

- 59. PROTECT ALL EXISTING POWER, COMMUNICATIONS, DATA, LIFE SAFETY SYSTEMS, FIRE ALARM AND PUBLIC ADDRESS SYSTEMS AND MAINTAIN THEM IN OPERATION THROUGHOUT THE PROGRESS OF THE WORK. NOTIFY THE OWNER AND ARCHITECT/ENGINEER IF SHUTDOWNS ARE REQUIRED PRIOR TO ANY OUTAGE OF SERVICE. WHERE THE DURATION OF A PROPOSED OUTAGE CANNOT BE TOLERATED BY THE OWNER, PROVIDE TEMPORARY CONNECTIONS AS REQUIRED TO MAINTAIN SERVICE.
- 60. THE CONTRACT REQUIRES SEVERAL NEW CIRCUITS BE ADDED TO EXISTING PANELBOARDS . THE CONTRACTOR SHALL ENDEAVOR TO MAINTAIN PHASE BALANCE ON ALL PANELBOARDS AFFECTED BY THIS WORK. RECONNECT/MODIFY/EXTEND EXISTING CIRCUITING AS REQUIRED TO MAINTAIN SAFE CIRCUIT LOADING AND PHASE BALANCE. COORDINATE CONNECTIONS TO THE EXISTING ELECTRICAL DISTRIBUTION SYSTEM WITH THE OWNER AND ARCHITECT/ENGINEER. PROVIDE ACCURATE, UPDATED, TYPED PANEL SCHEDULES FOR ALL AFFECTED PANELS. NOTE ALL FINAL CIRCUIT CONFIGURATIONS ON AS-BUILT DRAWINGS.
- 61. THE CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING NECESSARY TO INSTALL ALL EQUIPMENT AS REQUIRED AND SHALL REESTABLISH ALL FINISHES TO THEIR ORIGINAL CONDITION WHERE CUTTING AND PATCHING OCCUR. ALL CUTTING AND PATCHING SHALL BE DONE IN A THOROUGHLY WORKMANSHIP MANNER. SAW CUT CONCRETE AND MASONRY PRIOR TO BREAKING OUT SECTIONS. ALL PATCHING MATERIALS AND WORKMANSHIP SHALL BE PERFORMED BY TRADESMEN EXPERIENCED IN THAT WORK. ALL WORK SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT/ENGINEER.
- 62. CORE DRILL HOLES IN EXISTING CONCRETE WALLS AS REQUIRED.
- 63. INSTALL WORK AT SUCH TIME AS TO REQUIRE THE MINIMUM AMOUNT TO CUTTING AND PATCHING.
- 64. CUT OPENINGS ONLY LARGE ENOUGH TO ALLOW EASY INSTALLATION OF THE CONDUIT.
- 65. WHEN INDICATED, CONNECT NEW LOADS TO EXISTING ABANDONED CIRCUITS SERVING THE SAME AREA AND NOTE CIRCUITS ON AS-BUILT DRAWINGS.
- 66. EXISTING CIRCUITING WHERE SHOWN IS FOR CONVENIENCE PURPOSES ONLY. VERIFICATION OF EXISTING WIRING DESTINATION, TERMINATION AND ADDITIONS OF NEW LOADS IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 67. MAINTAIN CONTINUITY OF ALL EXISTING CIRCUITS TO REMAIN OR PORTIONS THEREOF AFFECTED BY THIS WORK.
- 68. DESIGN AND ADDITION OF NEW CIRCUITING IS BASED ON THE ENGINEER'S BEST INFORMATION REGARDING EXISTING CONDITIONS AND CURRENT BASE BUILDING DRAWINGS. AVAILABILITY OF ADEQUATE CIRCUIT BREAKER SPACE FOR NEW WORK IN EXISTING PANELBOARDS SHALL BE VERIFIED BY THE CONTRACTOR AFTER DEMOLITION OF THE EXISTING SPACE. IF ADEQUATE SPACE IS NOT AVAILABLE FOR NEW CIRCUIT BREAKERS THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR RESOLUTION.
- 69. ABANDONED POWER WIRING, RACEWAYS AND CONDUCTORS, SHALL BE REMOVED BACK TO THEIR SOURCE. THE ACCESSIBLE PORTIONS OF ABANDONED CABLES (VOICE, DATA, VIDEO, ALARM, ETC.) SHALL BE REMOVED.
- 70. TRACE OUT EXISTING WIRING THAT IS TO BE RELOCATED, OR REMOVED AND PERFORM THE RELOCATION OR REMOVAL WORK AS REQUIRED FOR A COMPLETE OPERATING AND SAFE SYSTEM.
- 71. INSOFAR AS POSSIBLE, MATCH EXISTING EXPOSED DEVICES IN FINISHED AREAS IN TYPE, COLOR AND FINISH.
- 72. THE EXISTING ELECTRICAL SYSTEMS DEPICTED ON THESE DRAWINGS HAVE BEEN COMPILED BY THE ENGINEER FROM THE OWNER'S RECORD DRAWINGS AND LIMITED FIELD VERIFICATION OF THE EXISTING CONDITIONS FOR THE PURPOSE OF INDICATING THE WORK REQUIRED AND ARE BELIEVED TO BE CORRECT. NOTWITHSTANDING, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, POINTS OF ACCESS AND FIELD CONDITIONS AFFECTING HIS WORK.
- 73. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING ELECTRICAL SYSTEMS AND THE EXISTING BUILDING. THE SUBMISSION OF THE PROPOSAL BY THE CONTRACTOR SHALL BE CONSIDERED EVIDENCE THAT HE OR HIS REPRESENTATIVE HAS VISITED THE SITE AND BUILDINGS AND NOTED THE LOCATION AND CONDITIONS UNDER WHICH THE WORK WILL BE PERFORMED AND THAT HE TAKES FULL RESPONSIBILITY OF ALL FACTORS GOVERNING HIS WORK. NO EXTRAS WILL BE CONSIDERED BECAUSE OF ADDITIONAL WORK NECESSITATED BY EXISTING JOB CONDITIONS THAT ARE NOT INDICATED ON THE DRAWINGS.
- 74. ALL UNUSED OUTLET BOXES SHALL BE REMOVED OR, WITH SPECIFIC APPROVAL OF THE ARCHITECT/ENGINEER, SHALL BE BLANKED WITH STAINLESS STEEL PLATES. ALL OPENINGS IN EXISTING WALLS AND CEILINGS MADE BY THIS CONTRACTOR SHALL BE REPAIRED TO AN EQUAL FINISH AS ADJACENT SURFACES.
- 75. SAFETY A. COMPLY WITH OSHA AND NEC ARC FLASH PROTECTION REQUIREMENTS.
- B. FOR EQUIPMENT BEING REMOVED AND REPLACED, THE CONTRACTOR SHALL DE-ENERGIZE THE EQUIPMENT AND MAKE IT SAFE PRIOR TO REMOVAL AND COMPLY WITH OSHA REQUIREMENTS FOR LOCKING-OUT AND TAGGING EQUIPMENT TO PREVENT INADVERTENT RE-ENERGIZING.
- C. WHERE EQUIPMENT IS BEING REMOVED, BUT NOT REPLACED, REMOVE THE CONDUCTORS FEEDING THE EQUIPMENT BACK TO THE POINT WHERE THEY RECEIVE POWER. REMOVE ACCESSIBLE CONDUITS. ABANDON IN PLACE INACCESSIBLE CONDUITS. AFTER REMOVAL OF EQUIPMENT, REPAIR ANY OPENING LEFT TO MATCH SURROUNDING WALLS, CEILINGS, OR FLOORS TO THE ARCHITECT/ENGINEER'S SATISFACTION.
- D. COORDINATE WITH THE OTHER TRADES, PRIOR TO BID, AND INCLUDE IN THE BASE BID THE ELECTRICAL DISCONNECTION OF ANY EQUIPMENT BEING DEMOLISHED, EVEN IF NOT EXPLICITLY SHOWN. UNLESS NOTED OTHERWISE, REMOVE ALL DEMOLISHED EQUIPMENT FROM THE PROPERTY.

75. ALL SWITCHES, RECEPTACLES AND LIGHTS SHALL COMPLY WITH ANSI 117.2 FOR ADA REQUIREMENTS.







Α (X)Panel L2 PE: SQUARE D NF VOLT\$, 3 PHASE, 4 WIRE 480 277 MOUNT: SURFACE FEED: BOTTOM PHASE LOAD VA CKT CKT BKR LOAD LOAD CKT BKR CKT AD SERVED VA TRIP/POLES # A B C # TRIP/POLES VA LOAD SERVED VAV FPB2-11.12,13,18,1 EV SHAFT LIGH 1,551 84 20/1 1,635 2,438 (X)VAV FPB2-1,3,6,7,14 20/1 2.438 20/1 IGHTING - LOBBY AND EAST S 3,220 20/1 VAV FPB2-2,5,8,15,16 1,329 20/1 4.549 20/1 CAN LIGHTS AT ELEV EI GHTING - WESTS 3,714 20/1 600 4,314 IGHTS: MAMMO & BONE (NOTE 1) VAV FPB2-20,21,22 (NOTE 2) 1,787 20/1 598 2,38 20/1 20/1 (X)SPARE 20/1 20/1 (X)SPARE 20/1 20/1 (X)SPARE 20/1 20/1 (X)SPARE 20/1 20/1 20/1 (X)SPARE 20/1 20/1 (X)SPARE 20/1 (X)SPARE 20/1 20/1 X)SPARE 20/1 20/1 (X)SPARE 20/1 20/1 (X)SPARE 20/1 20/1 (X)SPARE 20/1 20/1 20/1 20/1 20/1 2,496 20/1 2,496 2.496 20/1 TES (AS APPLICABLE) 8,100 8,445 7,319 TTL PHASE VA 100 A. BUS (COPPER, UNO) 100 A. MAIN LUGS AND/OR FEEDER RATING USE EXISTING SPARE BREAKER 29 30 26 TTL PHASE AMPS PROVIDE NEW BREAKER IN PLACE OF EXISTING 34% 35% 31% PHASE BALANCE 42 KAIC MINIMUM RATING CONN. DEMAND DEMAND (VA) DEMAND SUMMARY: FACTOR (VA) TOTAL RECEPTACLES (VA) = RECEPTACLES FIRST 10 KVA 1.00 RECEPTACLES > 10 KVA 0.50 14,256 IGHTING 11,405 1.25 MISCELLANEOUS EQUIPMENT 1.00 OTHER EQUIPMENT (CONTINUOUS) 1.25 LARGEST MOTOR 1.25 HVAC EQUIPMENT (FLA = MCA X 0.8) 12,459 12,459 1.00 KITCHEN EQUIPMENT 1.00 -----TOTAL CONNECTED (VA) 23,864 TOTAL DEMAND (VA) 26,716 TOTAL DEMAND (AMPERES) 32.1 PANEL DEMAND LOADING VS RATING 32.1% NOTE: (X) INDICATES EXISTING EQUIPMENT, LOAD, ETC., TYPICAL С EQUIPMENT DESIGNATION 3/8" WHITE ENGRAVED LETTERS -----SOURCE DESIGNATION 1/4" WHITE ENGRAVED LETTERS-**EQUIPMENT: NAME** ο Υ Γ SOURCE: PANEL "###" **RATING DESIGNATION 1/4"** WHITE ENGRAVED LETTERS---RATING: ### AMPS -VOLTAGE: 208/120V, 1Ø, 3W **VOLTAGE & PHASE DESIGNATION 1/4" WHITE** ENGRAVED LETTERS-ATTACH WITH STAINLESS STEEL BLIND RIVET NOTE: SEE SPECS. SECTION 260553 FOR NAMEPLATE MATERIAL AND ENGRAVING COLORS. **TYPICAL EQUIPMENT NAMEPLATE DETAIL** D NOT TO SCALE -CIRCUIT(S) PANEL AND NUMBER CLEARLY MARKED ON EACH RACEWAY AND JUNCTION BOX COVER WITH PERMANENT BLACK MARKER, TYPICAL Е XX-X,X XX-X,X,X XX-X,X,X **CIRCUIT IDENTIFICATION DETAIL** 3 NOT TO SCALE

2



METHOD OF COMPLIANCE:							
ENERGY CODE:			PERFORMANCE				
LIGHTING SCHEDULE (EACH FIXT	TURE TYPE)						
LAMP TYPE REQUIR	RED IN FIXTURE: SEE FIXTURE	SCHEDULE					
NUMBER OF LAMPS	NUMBER OF LAMPS IN FIXTURE: SEE FIXTURE SCHEDULE						
BALLAST TYPE USE	D IN THE FIXTURE: SEE FIXTU	IRE SCHEDULE					
NUMBER OF BALLAS	STS IN FIXTURE: SEE FIXTURE	SCHEDULE					
TOTAL WATTAGE PI	ER FIXTURE: SEE FIXTURE SC	HEDULE					
TOTAL INTERIOR W	ATTAGE: (WHOLE BUILDING O	R SPACE BY SP	ACE)	NO.	DATE IS	SUE NOTE	
ALLOWED =	3,263 WATTS			Project	Manager	Drawn By	
ADDITIONAL 10% =	2,936 WATTS			1 10/001	IRR	AIC	
SPECIFIED =	1,787 WATTS			Data			
				Dale			
EXTERIOR ALLOWA	NCE:			02.	09.2024		
(TRADEABLE SURFA	ACES)			Project	ID		
ALLOWED =	N/A WATTS						
SPECIFIED =	N/A WATTS			Sheet T	itle		
(NON-TRADEABLE S	SURFACES:)		ELEC	TRICAL			
ALLOWED =	N/A WATTS						
SPECIFIED =	N/A WATTS						
					& DE	ETAILS	
ADDITIONAL PRESCRIPTIVE COM	MPLIANCE						
C406.2 MORE EFFIC	CIENT HVAC EQUIPMENT PERF	ORMANCE		Sheet N	lo.		
C406.3 REDUCED LI	GHTING POWER DENSITY						
	DIGITAL LIGHTING CONTROLS						
	NERGY USE IN SERVICE WATE	ERHEATING				$\land \land$	
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C1-1 C1-2 C2-1 C2-2 C3-1 C3-2 C3-3 C3-2 C3-1 VP01 VP02 VH 1, 2, 3 P1, 2, 3 P01 P02 VB1, 2, 3 P01 P02 VH 1, 2, 3 P1, 2, 3 P01 P02 P03 JH1.1 P01 P02 P03 P03 P03 P03 P14.1 P1-2 P14.1 P1-2 P15.2 P16.2 P17.2 P17.2 P17.2 P17.2<	1 1 <td< th=""><th> 11/2 1-1/2 1-1/2 1-1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2</th><th>EA EA EA</th><th>54 54 54 54 54 54 2.7 2.7 2.7 2.7 2.7 3.0 3.0 1,500 110 2.5 2.5 2.5 2.5 2.5 12.5 30 6 30 6 30 6 30 6 4.125 4.125</th><th>MCA MCA A FLA VA VA A A A A MCA MCA</th><th>3 460 3 460 3 460 3 460 3 460 3 460 3 460 3 460 1 120 1 120 1 120 1 120 1 120 1 120 1 120 1 120 1 120 1 120 1 120 1 120 1 120 1 120 1 120 1 208 3 460 1 208 3 460 1 208 3 460 1 208</th><th>34,418 324 324 324 324 324 324 324 324 330 330 300 300 300 300 4,992 3,824 4,992</th><th>1 1 1 1 1 1 1 1.25 1.2</th><th>34,418 34,418 34,418 34,418 34,418 34,418 405 405 2,494 2,494 2,494 4,500 330 375 375 375 1,500 6,240 3,824</th><th></th><th></th></td<>	 11/2 1-1/2 1-1/2 1-1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	EA	54 54 54 54 54 54 2.7 2.7 2.7 2.7 2.7 3.0 3.0 1,500 110 2.5 2.5 2.5 2.5 2.5 12.5 30 6 30 6 30 6 30 6 4.125 4.125	MCA A FLA VA VA A A A A MCA MCA	3 460 3 460 3 460 3 460 3 460 3 460 3 460 3 460 1 120 1 120 1 120 1 120 1 120 1 120 1 120 1 120 1 120 1 120 1 120 1 120 1 120 1 120 1 120 1 208 3 460 1 208 3 460 1 208 3 460 1 208	34,418 324 324 324 324 324 324 324 324 330 330 300 300 300 300 4,992 3,824 4,992	1 1 1 1 1 1 1 1.25 1.2	34,418 34,418 34,418 34,418 34,418 34,418 405 405 2,494 2,494 2,494 4,500 330 375 375 375 1,500 6,240 3,824		
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01 01 02 03 03 1-1 1-2 2-1 2-2 3-1 3-2 1-3 IIRD FLOOR UPFIT (WILMINGTON HEALTH - OCTOE NERAL INTERIOR LIGHTING NERAL INTERIOR LIGHTING NERAL USE RECEPTACLES - TOTAL NERAL USE RECEPTACLES (FIRST 10 KVA) NERAL USE RECEPTACLES (REMAINING AT 50%) DICAL, OFFICE & MISCELLANEOUS EQUIPMENT	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 5 BER 2018): 1 1 1	 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3	EA EA EA EA EA EA EA EA EA EA EA	6 30 6 30 6 4.125 4.125 4.125 4.125	MCA MCA MCA MCA MCA MCA	1 208 3 460 1 208 3 460 1 208 3 460 1 208	4,992 3,824 4,992	1.25	3,824		
02 02 03 03 1-1 1-2 2-1 2-2 3-1 3-2 1-3 IIRD FLOOR UPFIT (WILMINGTON HEALTH - OCTOE NERAL INTERIOR LIGHTING NERAL INTERIOR LIGHTING NERAL USE RECEPTACLES - TOTAL NERAL USE RECEPTACLES (FIRST 10 KVA) NERAL USE RECEPTACLES (REMAINING AT 50%) DICAL, OFFICE & MISCELLANEOUS EQUIPMENT	1 1 1 1 1 1 1 1 1 1 1 BER 2018): 1 1 1 1 1 1 1 1 1 1 1 1 1	 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/10	EA EA EA EA EA EA EA EA EA	30 6 30 6 4.125 4.125 4.125 4.125	MCA MCA MCA MCA MCA	1 208 3 460 1 208	4,992				
02 03 03 1-1 1-2 2-1 2-2 3-1 3-2 1-3 IIRD FLOOR UPFIT (WILMINGTON HEALTH - OCTOE NERAL INTERIOR LIGHTING NERAL INTERIOR LIGHTING NERAL USE RECEPTACLES - TOTAL NERAL USE RECEPTACLES (FIRST 10 KVA) NERAL USE RECEPTACLES (REMAINING AT 50%) DICAL, OFFICE & MISCELLANEOUS EQUIPMENT	1 1 1 1 1 1 1 1 1 1 1 BER 2018): 1 1	 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3	EA EA EA EA EA EA EA EA	0 30 6 4.125 4.125 4.125	MCA MCA MCA MCA	3 460 1 208	2024	1.25	6,240		
03 1-1 1-2 2-1 2-2 3-1 3-2 1-3 IIRD FLOOR UPFIT (WILMINGTON HEALTH - OCTOE NERAL INTERIOR LIGHTING NERAL USE RECEPTACLES - TOTAL NERAL USE RECEPTACLES - TOTAL NERAL USE RECEPTACLES (FIRST 10 KVA) NERAL USE RECEPTACLES (REMAINING AT 50%) DICAL, OFFICE & MISCELLANEOUS EQUIPMENT	1 1 1 1 1 1 1 1 BER 2018): 1 1	 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/10	EA EA EA EA EA EA	6 4.125 4.125 4.125	MCA MCA		4,992	1.25	<u> </u>		
1-1 1-2 2-1 2-2 3-1 3-2 1-3 IIRD FLOOR UPFIT (WILMINGTON HEALTH - OCTOE NERAL INTERIOR LIGHTING NERAL USE RECEPTACLES - TOTAL NERAL USE RECEPTACLES (FIRST 10 KVA) NERAL USE RECEPTACLES (FIRST 10 KVA) NERAL USE RECEPTACLES (REMAINING AT 50%) DICAL, OFFICE & MISCELLANEOUS EQUIPMENT	1 1 1 1 1 1 BER 2018): 1 1	1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/10	EA EA EA EA EA	4.125 4.125 4.125		3 460	3,824	1	3,824		
2-1 2-2 3-1 3-2 1-3 IIRD FLOOR UPFIT (WILMINGTON HEALTH - OCTOE NERAL INTERIOR LIGHTING NERAL USE RECEPTACLES - TOTAL NERAL USE RECEPTACLES (FIRST 10 KVA) NERAL USE RECEPTACLES (REMAINING AT 50%) DICAL, OFFICE & MISCELLANEOUS EQUIPMENT	1 1 1 1 BER 2018): 1 1	1/3 1/3 1/3 1/3 1/10	EA EA EA	4.125	MCA	1 115 1 115	380	1.25	474		
2-2 3-1 3-2 1-3 IIRD FLOOR UPFIT (WILMINGTON HEALTH - OCTOB NERAL INTERIOR LIGHTING NERAL USE RECEPTACLES - TOTAL NERAL USE RECEPTACLES (FIRST 10 KVA) NERAL USE RECEPTACLES (REMAINING AT 50%) DICAL, OFFICE & MISCELLANEOUS EQUIPMENT	1 1 1 BER 2018): 1 1	1/3 1/3 1/3 1/10	EA	4.405	MCA	1 115	380	1.25	474		
3-2 1-3 IIRD FLOOR UPFIT (WILMINGTON HEALTH - OCTOP NERAL INTERIOR LIGHTING NERAL USE RECEPTACLES - TOTAL NERAL USE RECEPTACLES (FIRST 10 KVA) NERAL USE RECEPTACLES (REMAINING AT 50%) DICAL, OFFICE & MISCELLANEOUS EQUIPMENT	1 1 BER 2018): 1 1	1/3 1/10		4.125	MCA MCA	1 115 1 115	380	1.25	474		
IIRD FLOOR UPFIT (WILMINGTON HEALTH - OCTO NERAL INTERIOR LIGHTING NERAL USE RECEPTACLES - TOTAL NERAL USE RECEPTACLES (FIRST 10 KVA) NERAL USE RECEPTACLES (REMAINING AT 50%) DICAL, OFFICE & MISCELLANEOUS EQUIPMENT	1 BER 2018): 1 1	1/10	EA	4.125	MCA	1 115	380	1.25	474		
NERAL INTERIOR LIGHTING NERAL USE RECEPTACLES - TOTAL NERAL USE RECEPTACLES (FIRST 10 KVA) NERAL USE RECEPTACLES (REMAINING AT 50%) DICAL, OFFICE & MISCELLANEOUS EQUIPMENT	1 1 1		EA	1.425	MCA	1 115	131	1.25	164		
NERAL USE RECEPTACLES - TOTAL NERAL USE RECEPTACLES (FIRST 10 KVA) NERAL USE RECEPTACLES (REMAINING AT 50%) DICAL, OFFICE & MISCELLANEOUS EQUIPMENT	1		EA	11,822	VA	1 277	11,822	1.25	14,778		
INERAL USE RECEPTACLES (FIRST 10 KVA) INERAL USE RECEPTACLES (REMAINING AT 50%) IDICAL, OFFICE & MISCELLANEOUS EQUIPMENT	1		= 1	98,146	VA	1 120					
DICAL, OFFICE & MISCELLANEOUS EQUIPMENT			EA	10,000	VA	1 120 1 120	10,000 88.146	0.5	10,000 44.073		
	1		EA	43,574	VA	1 120	43,574	1	43,574		
SC CONTINUOUS RUN LOADS	1		EA	250 9.019	VA	1 120 1 277	250	1.25	313 9.019		
C3-1/DAH3-1	1		EA	2,288	VA	1 208	2,288	1	2,288		
GINE-GENERATOR SET BLOCK HEATER	1		EA	3,000	VA	1 208	3,000	0.7	2,100		
AY	1		EA	60,000	VA VA	1 120 3 480	60,000	0.7	420		
RTIAL SECOND FLOOR UPFIT (WILMINGTON HEAD	LTH - OCTC	DBER 2	2018):								
	1		EA	10,150	VA	1 277	10,150	1.25	12,688		
NERAL USE RECEPTACLES - TOTAL NERAL USE RECEPTACLES (FIRST 10 KVA)	1		EA	10,000	VA VA	1 120	10,000	1	10,000		
NERAL USE RECEPTACLES (REMAINING AT 50%)	1		EA	44,464	VA	1 120	44,464	0.5	22,232		
DICAL, OFFICE & MISCELLANEOUS EQUIPMENT	1		EA	49,242	VA VA	1 120 1 120	49,242	1.25	49,242		
AC VAV FAN POWERED BOXES	1		EA	7,919	VA	1 277	7,919	1	7,919		
C2-1/DAH2-1	1		EA FA	2,288	VA	1 208 3 480	2,288	1	2,288		
ERILIZER CONTROLS	1		EA	7	A	1 120	840	1	840		
RTIAL SECOND FLOOR UPFIT (WILMINGTON HEAI	LTH - JANU	JARY 2	2024):								
NERAL INTERIOR LIGHTING NERAL USE RECEPTACIES - TOTAL	1		EA	1,787	VA VA	<u>1 277</u> 1 120	1,787	1.25	2,234	SEE PANEL L2	
NERAL USE RECEPTACLES (FIRST 10 KVA)	1		EA	10,000	VA	1 120	10,000	1	10,000	SEE PANEL P2A	
NERAL USE RECEPTACLES (REMAINING AT 50%)	1		EA	6,960 598	VA	1 120 1 277	6,960	0.5	3,480	SEE PANEL P2A	
SENOGRAPHE PRISTINA MAMMOGRAPHY SYSTEM	2		EA	650	VA	1 208	1,300	1	1,300	SEE PANEL P2A	
PRODIGY PRIMO X-RAY BONE DENSITOMETER	1		EA	450	VA	1 120	450	1	450	SEE PANEL P2A	
	1		EA	4,500	VA	1 208	4,500	1	4,500	SEE PANEL P2A	
INERAL INTERIOR LIGHTING	20,710		SF	0.80	VA	1 277	16,568	1.25	20,710	ESTIMATED	
NERAL USE RECEPTACLES	20,710		EA	3	VA	1 120	62,130	4	40.000	ESTIMATED	
NERAL USE RECEPTACLES (REMAINING AT 50%)	1		EA	52,130	VA	1 <u>120</u>	52,130	0.5	26,065	ESTIMATED	
SCELLANEOUS	1		EA	25,000	VA	1 120	25,000	1	25,000	ESTIMATED	
DUSE POWER:				7.000		1	7.000	4.05	0.700		
TERIOR BUILDING PERIMETER LIGHTING	1		EA	1,832	VA	1 277 1 277	1,431	1.25	9,790	APPROXIMATE	
E LIGHTING	1		EA	378	VA	1 277	378	1.25	473	APPROXIMATE	
NERAL USE RECEPTACLES (FIRST 10 KVA)	1		EA	2,160	VA	1 120 1 120	2,160	0.5	2,160	APPROXIMATE	
EVATOR (LARGEST MOTOR)	1	40	EA	52	FLA	3 460	41,429	0.95	39,358	DF PER NEC ART 620	
EVATOR	1	40	EA	52 20.000	FLA VA	3 460 1 120	41,429	0.95	39,358	DF PER NEC ART 620	
ITURE LOADS:	1		EA	200,000	VA	3 480	20,000	1	20,000	APPROX. 25%	
	EST CONNEC						1 127 405				
t 	EST. DIVERSI	IFIED LC	OAD (VA)	<u> </u>			1,137,493		974,721	<u> </u>	
	TOTAL EST. C			AD (A)			1368.2		4470 4		
	TOTAL EST. L	JEMANL	D LOAD (A)					1172.4		
TIMATED SERVICE LOAD (AMPERES) AT 480 V, 3 PHASE =									1,172.4	(1,600 AMPERE MINIMUM RATIN	NG REQUIRED)
DTES:											
TE 1: DEMAND FACTORS ARE ESTIMATED.											
TE 2. LIGHTING, FANS AND PUMPS ARE ASSUMED TO BE C		RUN, UN	UNU.								

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MARK	DESCRIPTION	MANUFACTURER/SERIES	NOM. SIZE	SOURCE / TEMP(oK) / DELIVERED LUMENS	VOLTS	WATTS	LENS	COLOR/ MATERIAL	MOUNTING HEIGHT	DRIVER/ DIMMING	REMARKS
А	RECESSED CENTER ELEMENT	LITHONIA LIGHTING	2'x4'x4"	LEDs /	MVOLT	30	ACRYLIC	WHITE	RECESSED	LED DRIVER	
	LED LAY IN	2GTL SERIES		3500K /					CEILING	0-10V	
				4000 LUMENS					MOUNTED	10% DIMMING	
B1	RECESSED CENTER ELEMENT	LITHONIA LIGHTING	2'x4'x4"	LEDs /	MVOLT	24	ACRYLIC	WHITE	RECESSED	LED DRIVER	
	LED LAY IN	2GTL SERIES		3500K /					CEILING	0-10V	
				3000 LUMENS					MOUNTED	10% DIMMING	
B2	RECESSED CENTER ELEMENT	LITHONIA LIGHTING	2'x4'x4"	LEDs /	MVOLT	24	ACRYLIC	WHITE	RECESSED	LED DRIVER	8
	LED LAY IN	2GTL SERIES		3500K /					CEILING	0-10V	
				3000 LUMENS					MOUNTED	10% DIMMING	
С	RECESSED CENTER ELEMENT	LITHONIA LIGHTING	2'x4'x4"	LEDs /	MVOLT	36	ACRYLIC	WHITE	RECESSED	LED DRIVER	
	LED LAY IN	2GTL SERIES		3500K /					CEILING	0-10V	
				4800 LUMENS					MOUNTED	10% DIMMING	
D	RECESSED CENTER ELEMENT	LITHONIA LIGHTING	2'x4'x4"	LEDs /	MVOLT	49	ACRYLIC	WHITE	RECESSED	LED DRIVER	
	LED LAY IN	2GTL SERIES		3500K /					CEILING	0-10V	
				6000 LUMENS					MOUNTED	1% DIMMING	
F	RECESSED CENTER ELEMENT	LITHONIA LIGHTING	2'x2'x4"	LEDs /	MVOLT	34	ACRYLIC	WHITE	RECESSED	LED DRIVER	
	LED LAY IN	2GTL SERIES		3500K /					CEILING	0-10V	
				4000 LUMENS					MOUNTED	DIMMING	
G	RECESSED DOWN LIGHT	LITHONIA LIGHTING	4"	LEDs /	MVOLT	37	ACRYLIC	WHITE	RECESSED	LED DRIVER	
		LDN4 SERIES		3500K /					CEILING	0-10V	
				3000 LUMENS					MOUNTED	10% DIMMING	
Н	RECESSED DOWN LIGHT	LITHONIA LIGHTING	4"	LEDs /	MVOLT	11	ACRYLIC	WHITE	RECESSED	LED DRIVER	
		LDN4 SERIES		3500K /					CEILING	0-10V	
				1000 LUMENS					MOUNTED	10% DIMMING	
X1	EXIT SIGN, SINGLE FACE -	LITHONIA LIGHTING	12"x	LED	120/277V	1	RED	WHITE	CEILING	LED DRIVER	8
	RED LETTERS, WHITE	LQM SERIES	8"x						MOUNTED		
	THERMOPLASTIC HOUSING		2"								
X2	EXIT SIGN, DOULBE FACE -	LITHONIA LIGHTING	12"x	LED	120/277V	1	RED	WHITE	CEILING	LED DRIVER	8
	RED LETTERS, WHITE	LQM SERIES	8"x						MOUNTED		
	THERMOPLASTIC HOUSING		2"								
X3	EXIT SIGN, SINGLE FACE -	LITHONIA LIGHTING	12"x	LED	120/277V	1	RED	WHITE	WALL	LED DRIVER	8
	RED LETTERS, WHITE	LQM SERIES	8"x						MOUNTED		
	THERMOPLASTIC HOUSING		2"								
XRAY	"X-RAY IN USE" SIGN	LITHONIA LIGHTING	12"x	LED	120/277V	1	RED	WHITE	WALL	LED DRIVER	9
	RED LETTERS, WHITE	LQM SERIES	8"x						MOUNTED		
	THERMORI ASTIC HOUSING		2"								

SI-LEVEL SWITCHING

3. WET LOCATION

2. DAMP LOCATION

5. LED REQUIRED SURGE PROTECTION 6. VERIFY FINAL MOUNTING HEIGHT WITH ARCHITECT

GENERAL NOTES:

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- A. THE CONTRACTOR SHALL VERIFY THE LEAD TIME OF ALL PRODUCTS SPECIFIED IN THIS SCHEDULE AT THE TIME OF PACKAGE QUOTE. B. DURING THE BID PROCESS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DELIVERY/SCHEDULING ISSUES.
- C. NO SUBSTITUTIONS WILL BE ALLOWED DUE TO THE LACK OF COORDINATION OF DELIVERY DATES AND CONSTRUCTION SCHEDULE AFTER BID.
- D. ALL EXPEDITED EXPENSES SHALL BE THE RESPONSIBILITY OF THE CONTRACTORS.
- E. THE ELECTRICAL CONTRACTOR SHALL RECEIVE APPROVAL FOR ALL LIGHTING FIXTURES FROM THE ARCHITECT/OWNER PRIOR TO PURCHASE AND ROUGH-IN. FIXTURES INSTALLED IN CEILINGS INDICATED ON THE ARCHITECTURAL PLANS AS HAVING INSULATION IN CONTACT WITH THE CEILING SURFACE SHALL BE MANUFACTURER
- RATED "IC". G. ALL LIGHTING FIXTURES PENETRATING RATED FLOOR/CEILING ASSEMBLY SHALL BE PROVIDED WITH ACCESSORIES TO MAINTAIN ASSEMBLY FIRE RATING. REFER TO
- ARCHITECTURAL DRAWINGS FOR ADDITIONAL RATINGS. H. "NL" ADJACENT TO FIXTURE INDICATES AN UNSWITCHED 24 HOUR NIGHT LIGHT. THE FIXTURE SHALL BE CONNECTED TO THE UNSWITCHED INDICATED CIRCUIT.
- LED MODULES SHALL BE REPLACEABLE. ACRYLIC PRISMATIC LENSES SHALL BE 0.125" NOMINAL MINIMUM THICKNESS.
- K. ALL EXIT AND EMERGENCY FIXTURES SHALL COMPLY WITH NCSBC STANDARDS AND HAVE AUTOMATIC TESTING DEVICES.
- L. LED EMERGENCY BATTERY SHALL PROVIDE FULL RATED FIXTURE A MINIMUM OF 50% OF RATED FIXTURE 1400 MINIMUM LUMENS OUTPUT FOR 90 MINUTES MINIMUM. M. SEE SPECIFICATIONS SECTIONS 265100 AND 265200 FOR ADDITIONAL REQUIREMENTS.
- N. THE FIRST FIXTURE NAMED IN THE MANUFACTURER COLUMN IS THE BASIS OF DESIGN. OTHER FIXTURES ARE SIMILAR IN THE OPINION OF THE ARCHITECT AND ENGINEER. IF THE CONTRACTOR ELECTS TO SUBMIT A FIXTURE OTHER THAN THE BASIS OF DESIGN FIXTURE, INCLUDING ONE OF THE TWO SIMILAR FIXTURES, REQUIREMENTS OF
- 0. LIGHTING FIXTURES HAVE BEEN SELECTED AND SPECIFIED TO ACHIEVE REQUIRED/DESIRED ILLUMINATION LEVELS AND OTHER CHARACTERISTICS IN THEIR RESPECTIVE AREAS. SPECIFIED FIXTURES HAVE SPECIFIC CHARACTERISTICS WHICH MAY CREATE UNIQUE ILLUMINATION RESULTS ESSENTIAL TO THE PROJECT. LIGHTING FIXTURES PROVIDED SHALL MEET THE ASTHETICS, DETAILS, AND SPECIFICATIONS STATED ABOVE AND IN THE DIVISION 26 SPECIFICATIONS, AND MOUNTING HEIGHTS AND SPACINGS SHOWN ON THE DRAWINGS. ANY DEVIATIONS FROM THE SPECIFIED FIXTURES SHALL DEEM ALL PARTIES IN THE SUPPLY CHAIN AND CONTRACTOR RESPONSIBLE FOR PROVIDING DETAILED COMPARISONS OF THE SPECIFIED FIXTURE AND THE PROPOSED FIXTURE FOR ARCHITECT AND ENGINEER REVIEW IN DETERMINING EQUALITY.
- PROVIDE COMPLETE POINT BY POINT ILLUMINATION STUDIES FOR ALL SUBSTITUTIONS. SUBSTITUTIONS MAY BE APPROVED BY THE ARCHITECT AND ENGINEER IF THEY ARE JUDGED TO BE EQUAL TO THE SPECIFIED FIXTURES. "EQUAL" MAY INCLUDE, AT THE SOLE DISCRETION OF THE ARCHITECT AND ENGINEER, LENS MATERIAL AND CHARACTERISTICS, COLORS, REFLECTORS, HOUSING MATERIAL AND CONFIGURATION, FINISHES, PHOTOMETRICS, EFFICIENCY, OPTIONS, FUNCTIONALITY, ETC.

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NAL COLOR SELECTION BY ARCHITEC 8. PROVIDED WITH INTEGRAL 90 MIN BACKUP BATTERY

9. CONNECT TO SWITCH IN X-RAY EQUIPMENT AS DIRECTED BY THE X-RAY EQUIPMENT VENDOR

NOTES O. AND P. APPLY. THE ABOVE FIXTURE TYPES ARE LISTED AS THE DESIGN BASIS AND MATCH LIGHTING FIXTURES PREVIOIUSLY INSTALLED IN THE BUILDING.

BOWMAN BOWMAN BURRAY BURRAY
SEAL 8433 CAN MCFADUN 02/09/2024
Wilmington Health Mammography & Bone Density Suite Upfit 1124 Gallery Park Blvd, 2nd Floor Wilmington, NC 28412
REV. DATE DESCRIPTION
NO. DATE ISSUE NOTE
JRB AJC Date Reviewed By 02 09 2024 RDM
Project ID
ELECTRICAL LOAD SUMMARY & LIGHTING SCHEDULE
E-0.5









Ц Ф	FIRE ALARIVI MANUAL STATION, 48" AFF							
直	FIRE ALARM ABORT KILL SWITCH, 48" AFF							
匠	FIRE DEPT. KNOX BOX, 60" AFF							
-今Ē ^{15cd}	FIRE ALARM HORN/STROBE DEVICE, 80" AFF, "15cd" INDICATES CANDELA RATING							
Ē.	FIRE HORN (ONLY) DEVICE, 80" AFF							
- 今 首 15cd	FIRE ALARM HORN/STROBE DEVICE, CEILING MOUNTED, "15cd" INDICATES CANDELA RATING							
-个里 ^{15cd}	FIRE ALARM VISUAL (ONLY) DEVICE, 80" AFF, "15cd" INDICATES CANDELA RATING							
- 今 臣 ^{15cd}	FIRE ALARM VISUAL (ONLY) CEILING MOUNTED "15cd" INDICATES CANDELA RATING							
	FIRE ALARM SPEAKER/STROBE DEVICE, 80" AFF, "15cd" INDICATES CANDELA RATING							
Υ <u>Υ</u> © F	FIRE ALARM SPEAKER DEVICE, 80" AFF							
-0/FI ^{15cd}	FIRE ALARM SPEAKER/STROBE DEVICE, CEILING MOUNTED, "15cd" INDICATES CANDELA RAT							
ې ل ا	FIRE ALARM SPEAKER DEVICE, CEILING MOUNTED							
E	FIRE ALARM SPEARER DEVICE, CEILING MOUNTED							
臣	FIRE ALARM BELL, 80" AFF							
<u>-</u> ቀ፼	FIRE ALARM BELL/STROBE, 80" AFF							
臣	FIRE ALARM CHIME, 80" AFF, "15cd" INDICATES CANDELA RATING							
-个世 ^{15cd}	FIRE ALARM CHIME/STROBE, 80" AFF, "15cd" INDICATES CANDELA RATING							
- \-F ^{15cd}	FIRE ALARM CHIME/STROBE, CEILING MOUNTED, "15cd" INDICATES CANDELA RATING							
	HEAT DETECTOR, CEILING MOUNTED							
0	SMOKE DETECTOR, CEILING MOUNTED							
(ଅ _c	SMOKE/CO2 DETECTOR, CEILING MOUNTED							
©	DUCT MOUNTED SMOKE DETECTOR							
	DUCT MOUNTED HEAT DETECTOR							
Ā	DOOR HOLD OPEN DEVICE BY G.C.							
ᡛᢙᠴ᠆᠆᠆ᢏᢙᡰ	FIRE ALARM LINEAR BEAM SMOKE DETECTOR, INSTALLED APPROX. 12" BELOW CEILING, OR PER LISTING. PROVIDE REMOTE TEST/STATUS SWITCH AT 60" AFF BELOW DEVICE							
∞	SPRINKLER FLOW SWITCH							
Ø¥	SPRINKLER TAMPER SWITCH							
O₽	LEVEL SWITCH							
₽	PRESSURE SWITCH							
Ţ	TEMPERATURE SWITCH							
R	REMOTE INDICATING DEVICE (RAIL), CEILING MOUNTED							
R	REMOTE INDICATING DEVICE (RAIL), WALL MOUNTED							
M	MONITOR MODULE							
Μ	MONITOR MODULE, WALL MOUNTED							
	ISOLATION MODULE							
С	CONTROL MODULE							
Ç	CONTROL MODULE, WALL MOUNTED							
	FIRE ALARM CONTROL PANEL (FACP)							
FA REMOTE ANN	FIRE ALARM REMOTE ANNUNCIATOR PANEL							
	GAS VALVE CONTROL MODULE							
×								

ACCESS	CONTROLS LEGEND
SYMBOL	DESCRIPTION
CR	PROX READER STATION. PROVIDE AND INSTALL SINGLE GANG OUTLET BOX AT 48" AFF TO TOP OF BOX. PROVIDE 3/4" EMPTY CND TO CEILING CAVITY AND 3/4" EMPTY CND TO DOOR FRAME FOR DOOR STRIKE. PROX READ AND CABLES PROVIDED AND INSTALLED BY OWNER

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INSTALL PER NATIONAL ELECTRIC CODE -MOUNT AUDIBLE & VISUAL DEVICES ON -CONDUIT APPROVED BOXES MOUNT ON AN APPROVED 0'-4" MIN - AIR SUPPLY DIFFUSER OR RETURN AIR ВОХ — OPENING -NEVER HERE SMOKE/ HEAT DETECTOR-HORN — 0'-4" 3'-0" MINIMUM MINIMUM -HORN / STROBE STROBE-EXIT SMOKE/ HEAT DETECTOR -----CONTROL PANEL -HINGE SIDE MANUAL PULL STATION-€__**.** 5'-0" MAXIMUM 0 STRIKE SIDE —— DOOR FINISHED FLOOR



SMOKE DETECTOR -

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NOTE: DETAIL SHOWN FOR REFERENCE ONLY, NOT ALL DEVICES ARE INDICATED ON PLANS.

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NOT TO SCALE



DEVICE MOUNTING DETAIL

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Sheet No.

F-0.1



<u>FIR</u>	<u>E ALARM SYSTEMS LEGEND</u>
Ρ	PULL STATION
SD	SMOKE DETECTOR
(\mathbb{SD}_{R})	SMOKE DETECTOR WITH ELEVATOR RECALL
HD	HEAT DETECTOR
\oplus_{R}	HEAT DETECTOR WITH ELEVATOR RECALL
	CEILING MOUNTED STROBE WITH CANDELA RATING
୶ୖୄ୵ଽୢ	CEILING MOUNTED CHIME/STROBE WITH CANDELA RATING
DH/SQ	CEILING MOUNTED HORN/STROBE WITH CANDELA RATING
FACP	FIRE ALARM PANEL
ANN	FIRE ALARM ANNUNCIATOR PANEL
NAC1	NAC EXTENDER PANEL
IS01	ISOLATOR PANEL
TC1	TERMINAL CABINET
MM	MONITOR MODULE
RM	RELAY MODULE
PIV	POST INDICATOR VALVE
FS	FLOW SWITCH
TS	TAMPER SWITCH
EX	EXISTING

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