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VOICE AND DATA DATA OUTLET MOUNT IN FLUSH WALL BOX. LOCATE 18" ABOVE FINISH FLOOR TO CLEAR CASEWORK, OR AS INDICATED. STUB ¾" CONDUIT INTO ACCESSIBLE CEILING SPACE. TELEPHONE OUTLET MOUNT IN FLUSH WALL BOX. LOCATE 18" ABOVE FINISH FLOOR TO CLEAR CASEWORK, OR AS INDICATED. STUB ¾" CONDUIT INTO ACCESSIBLE CEILING SPACE. COMBINATION VOICE/DATA/ OUTLET MOUNT IN COMMON TWO GANG FLUSH WALL BOX. LOCATE 18" ABOVE FINISH FLOOR TO CLEAR CASEWORK, OR AS INDICATED. STUB 1" CONDUIT INTO ACCESSIBLE CEILING SPACE. TELEPHONE TERMINAL BOARD. MOUNT ON 4'X8'X4" PLYWOOD BACKBOARD. PAINT BACKBOARD WITH TWO COATS OF GRAY PRIMER. REFER TO	PANELBOARDS, ENCLOSURES AND SERVICE DISTRIBUTION PANELBOARD - NEW OR RELOCATED INSTALLATION. REFER TO SPECIFICATIONS FOR MANUFACTURER AND MODEL. PANELBOARD - EXISTING INSTALLATION. CONCEALED CONDUIT. REFER TO SPECIFICATIONS FOR SUPPORT AND MOUNTING REQUIREMENTS. JUNCTION BOX - MOUNT FLUSH IN FLOOR OR CEILING. 'C' DENOTES CEILING MOUNT; 'F' INDICATES FLOOR MOUNT.	TYPICAL OF ALL CONNECTIONS TYPICAL OF MOTOR CONNECTIONS TYPICAL OF FUSED DEVICES TYPICAL OF FUSED DEVICES	"GFI" DENOTES GROUND FAULT INTERRUPT. "IG" DENOTES ISOLATED GROUND. "S" DENOTES SAFETY GROUNDING. "XP" DENOTES EXPLOSION PROOF.	Φ ^C ——MOUNTING (C" DENOTES CEILING MOUNT. (F") DENOTES FLOOR MOUNT. (C) DENOTES FLOOR MOUNT.	REFER TO SPECIFICATIONS FOR SERVICE, MANUFACTURER AND MODEL. PROVIDE ALL NECESSARY FITTINGS AND ACCESSORIES TO COMPLETE INSTALLATION. INSTALL 42" ABOVE FINISH FLOOR, OR AS INDICATED. TYPICAL OF ALL RECEPTACLES TYPCIAL OF NON-WALL MOUNT RECEPTACLES TYPCIAL OF NON-WALL MOUNT RECEPTACLES	ATIC DOOR PUSH RUTTON CONTROLLER CONNER	AS REQUIRED FOR EQUIPMENT CONTROLLED. MOUNT BUSS SSY SERIES SWITCH WITH PLUADJACENT TO EQUIPMENT CONTROLLED. SAFETY DISCONNECT, HEAVY DUTY WITH COVER INTERLOCK. AND FUSING AS INDICATED. REFER TO SPECIFICATIONS FOR MANUFACTURER AND MODEL.	NECTION — WALL MOUNT. SARY FITTINGS AND ACCESSORIES TO COMPLETE INSTA JUG FUSE UP BEHIND UNIT. SERVED FROM PANELSAN	CONNECTION: NT SERVED AS NOTED, HORSI NETE INSTALLATION. SERVED	CONNECTION — CEILIN ND EQUIPMENT SERVED ON. SERVED FROM PAN	UPLEX RECEPTACLES, TWO POLE —3W, NEMA 5-20R. HUBBELL 5. WP' DENOTES A WEATHERPROOF CLEAR CASEWORK, OR AS INDIC	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	DUPLEX RECEPTACLE, TWO POLE, STRAIGHT BLADE - MOUNT IN FLUSH WALL BOX. 20A, 125V-3W, NEMA 5-20R. HUBBELL 5362I HEAVY DUTY ('IG' DENOTES HUBBELL IG5362I; 'GFI' DENOTES HUBBELL GF5362I; 'WP' DENOTES A WEATHERPROOF CAST ALUMINUM LIFT COVER WILL BE PROVIDED; 'S' DENOTES SAFETY GROUNDING; 'XP' DENOTES EXPLOSION PROOF). LOCATE 18" ABOVE FINISH FLOOR TO CLEAR CASEWORK, OR AS INDICATED. SERVED FROM PANEL AND CIRCUIT AS INDICATED.	"EM" DENOTES EMERGENCY FIXTURE. "P" DENOTES LOCKING COVER. "NL" DENOTES NIGHT LIGHT. "DENOTES LOCKING COVER. "DENOTES DENOTES DENOTES DENOTES DENOTES COVER. "BENOTES DENOTES DENOTES 1500 WATT "15" DENOTES 1500 WATT "15" DENOTES 2000 WATT "20" DENOTES 2000 WATT "15" DENOTES 2000 WATT "15" DENOTES 2000 WATT "15" DENOTES 2000 WATT	TYPICAL OF ALL FIXTURE TYPES TYPICAL OF ALL CONTROLS TYPICAL OF DIMMER CONTROLS TYPICAL OF MOTION DETECTORS TYPICAL OF DIMMER CONTROLS TYPICAL OF MOTION DETECTORS TYPICAL OF DIMMER CONTROLS TYPICAL OF DIMMER CONTROLS TYPICAL OF MOTION DETECTORS TYPICAL OF DIMMER CONTROLS TYPICAL OF MOTION DETECTORS TYPICAL OF DIMMER CONTROLS TYPICAL OF DIMMER CONTROLS TYPICAL OF MOTION DETECTORS TYPICAL OF DIMMER CONTROLS TYPICAL OF MOTION DETECTORS TYPICAL OF DIMMER CONTROLS TYPICAL OF MOTION DETECTORS TYPICAL OF DIMMER CONTROLS TYPICAL OF MOTION DETECTORS TYPICAL OF DIMMER CONTROLS TYPICAL OF DIMERS TYPICAL OF DIMMER CONTROLS TYPICAL OF DIMERS TYPICAL OF DIMER	PHOTOCELL. INTERMATIC 4121 (120V), INTERMATIC 4133 (277V). ORIENT FACING NORTH PER MANUFACTURER'S RECOMMENDATIONS.	POSCLE SWITCH, THREE WAY — MOUNT IN FLUSH WALL BOX. 20A, 120/277V. HUBBELL, HBL 1223I INSTITUTIONAL ("K" DENOTES HUBBELL 1223L; "WP" DENOTES A BELL 216LS WEATHERPROOF COVER WILL BE PROVIDED). CONTROLS SWITCHING SEQUENCE AS INDICATED. LOCATE 42" ABOVE FINISH FLOOR, OR AS INDICATED.	TCH, SINGLE POLE — MOUNT IN FLUSH WALL 77V. HUBBELL, HBL 12211 INSTITUTIONAL ('K) DOF COVER WILL BE PROVIDED). CONTROLS R, OR AS INDICATED.	IMMER CONTRO OVA-NT LINEA /ATT; '20' DEN	ULTRASONIC OCCUPANCY SENSOR, SURFACE MOUNT ON CEILING. WATTSTOPPER #W-2000A. SENSORS HAVE A MULTI-DIRECTIONAL TRANSMITTER AND AN ADJUSTABLE TIME DELAY RANGE FROM 15 SECONDS TO 15 MINUTES. PROVIDE WITH POWER PACK WATTSTOPPER # A120E-P FOR LIGHTING CONTROL AND ALL NECESSARY COMPONENTS. ARROWS INDICATE DIRECTION OF RECEIVERS.	HID, FLUORESCENT OR INCANDESCENT FIXTURE — RECESSED IN CEILING. REFER TO FIXTURE SCHEDULE FOR MANUFACTURER AND MODEL ('NL' DENOTES NIGHT LIGHT; 'EM' DENOTES SERVED FROM EMERGENCY PANEL). CONTROLLED BY SWITCHING SEQUENCE AS INDICATED. SERVED FROM PANEL AND CIRCUIT AS INDICATED.	B OCO	HID, FLUORESCENT OR INCANDESCENT FIXTURE — CEILING MOUNT. REFER TO FIXTURE SCHEDULE FOR MANUFACTURER AND MODEL ('NL' DENOTES NIGHT LIGHT; 'EM' DENOTES SERVED FROM EMERGENCY PANEL). CONTROLLED BY SWITCHING SEQUENCE AS INDICATED. SERVED FROM PANEL AND CIRCUIT AS INDICATED.	FLUORESCENT FIXTURE — SURFACE MOUNT OR RECESSED IN CEILING. REFER TO FIXTURE SCHEDULE FOR MANUFACTURER AND MODEL ('NL' DENOTES NIGHT LIGHT; 'EM' DENOTES SERVED FROM EMERGENCY PANEL). CONTROLLED BY SWITCHING SEQUENCE AS INDICATED. SERVED FROM PANEL AND CIRCUIT AS INDICATED.	FLUORESCENT FIXTURE — PENDANT OR CHAIN MOUNT FROM CEILING. REFER TO FIXTURE SCHEDULE FOR MANUFACTURER AND MODEL ('NL' DENOTES NIGHT LIGHT; 'EM' DENOTES SERVED FROM EMERGENCY PANEL). CONTROLLED BY SWITCHING SEQUENCE AS INDICATED. SERVED FROM PANEL AND CIRCUIT AS INDICATED.	VATED EXIT F TO FIXTURE OUTS.	LIGHTING EMERGENCY BATTERY PACK — WALL MOUNT. REFER TO FIXTURE SCHEDULE FOR MANUFACTURER AND MODEL

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<u>—</u>		Image: control of the		(S)		FACP	FAAP		SAMBOL
FIRE ALARM SIGNALING DEVICE WITH INTEGRAL FLASHING STROBE — WALL MOUNT. REFER TO SPECIFICATIONS FOR SERVICE, MANUFACTURER AND MODEL. LOCATE 80" ABOVE FINISH FLOOR OR 6" BELOW FINISHED CEILING (WHICHEVER IS LOWER, TO MEET ADA GUIDELINES), OR AS INDICATED. ZONED AS INDICATED.	FIRE ALARM SIGNALING DEVICE WITH INTEGRAL HORN AND STROBE — WALL MOUNT. REFER TO SPECIFICATIONS FOR SERVICE, MANUFACTURER AND MODEL. LOCATE 80" ABOVE FINISH FLOOR OR 6" BELOW FINISHED CEILING (WHICHEVER IS LOWER, TO MEET ADA GUIDELINES), OR AS INDICATED. ZONED AS INDICATED.	FIRE ALARM PULL STATION - WALL MOUNT. REFER TO SPECIFICATIONS FOR SERVICE, MANUFACTURER AND MODEL. LOCATE 48" ABOVE FINISH FLOOR, OR AS INDICATED.	SMOKE DETECTOR — DUCT MOUNT. REFER TO SPECIFICATIONS FOR SERVICE, MANUFACTURER AND MODEL. ZONED AS INDICATED.	SMOKE DETECTOR — CEILING MOUNT. REFER TO SPECIFICATIONS FOR SERVICE, MANUFACTURER AND MODEL. ZONED AS INDICATED.	FIXED RATE OF RISE DETECTOR — CEILING MOUNT. REFER TO SPECIFICATIONS FOR SERVICE, MANUFACTURER AND MODEL. ZONED AS INDICATED.	FIRE ALARM CONTROL PANEL. REFER TO SPECIFICATIONS FOR SERVICE, MANUFACTURER, MODEL AND MOUNTING.	FIRE ALARM ANNUNCIATOR PANEL. REFER TO SPECIFICATIONS FOR SERVICE, MANUFACTURER, MODEL AND MOUNTING.	FIRE	DESCRIPTION

ELECTRICAL SYMBOL SCHEDULE

NOTES

- DESIGN BASED ON FIXTURE INDICATED IN FIXTURE SCHEDULE. CONTRACTO ILLUMINANCE CALCULATIONS ON ALL MANUFACTURERS IDENTIFIED AS APPLENGINEER.
- ALL EXIT FIXTURES LED 120V, UNIVERSAL MOUNTING WITH RED LETTERS SEE SPECIFICATIONS FOR FIXTURE LENS AND BALLAST REQUIREMENTS.

 CONTRACTOR TO VERIFY CEILING SYSTEM COMPATIBILITY WITH LIGHTING FITTURE ORDER.
- FLUORESCENT FIXTURES TO HAVE ELECTRONIC, CLASS A SOUND RATING, BALLAST, 110V MULTI LAMP BALLAST,
- ALL RECESSED INCANDESCENT FIXTURES TO COMPLY WITH NEC 410-65C CUTOUT DEVICES. EXTERIOR HID FIXTURES TO HAVE HPF, CWA, 120/480V, MULTI-LAMP INDISWITCHING SEQUENCE A, B, C, D, ETC., OF FLUORESCENT 2'x4' FIXTURES FIRST, INBOARD LAMP SECOND.
- 3-LAMP FIXTURES ARE TO BE WIRED IN PAIRS SUCH THAT ONLY TWO LA SINGLE LAMP BALLASTS ARE NOT ACCEPTABLE UNLESS AS IDENTIFIED IN "EM/NL" FIXTURE. MASTER FIXTURE TO HAVE TWO 2-LAMP BALLASTS, AN A SINGLE 2-LAMP BALLAST. CENTER LAMPS TO SHARE COMMON BALLAST

CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH EXISTING SPECIA WHICH WILL AFFECT AND BE AFFECTED BY INSTALLATION OF THE NEW SYSTEM PLAN THE INSTALLATION OF HIS WORK SO THAT INTERRUPTIONS OF SERVICES THEREOF WILL BE AT A MINIMUM, AND SUCH INTERRUPTIONS SHALL OCCUR A INTERRUPTION SHALL BE FOR AS SHORT A DURATION AS POSSIBLE. CONTRACT FROM THE OWNER TO SHUT OFF SERVICES TO ANY LOCATION. SUCH PERMISS NOTIFYING THE OWNER IN WRITING TWO WEEKS PRIOR TO POWER OUTAGE AND REASON FOR AND DURATION OF THE SHUT DOWN, AND BEING SATISFIED THAT WITH AS LITTLE INCONVENIENCE AS POSSIBLE: BUILDING SHUTDOWN FOR MAIN MAY BE REQUIRED TO BE DONE ON A WEEKEND OR AT NIGHT.

ELECTRICAL PLAN NOTES

- ALL WIRING TO BE RUN IN CONDUIT, AND ALL CONDUIT TO BE RUN CONDUIT TO BE RUN CONDUIT TO BE FLUSH MOUT ALL WORK BY THIS CONTRACTOR TO COMPLY WITH ALL LOCAL, STATE ATTHIS CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRE ASSOCIATED FEES.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLET DRAWINGS AND ENSURING THAT THE SYSTEM IS OPERATIONAL UPON JO THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH OF TO VERIFY ALL EQUIPMENT CONNECTIONS, AND FOR COMPLETE INSTALL!
- COORDINATE ALL WIRING DEVICE LOCATIONS AND ELEVATIONS INDICATED ARCHITECT AND FINAL FURNITURE/EQUIPMENT LAYOUTS. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL BRANCH CIRCUIT WIRING IN ACCORDA WITH NATIONAL ELECTRICAL CODE AND THIS DRAWING.

 MAXIMUM LOAD PER 20A/1P CIRCUIT. 1920 WATTS AT 120V.

 VOLTAGE DROP SHALL BE LIMITED TO 3% ON ALL BRANCH CIRCUITS.

 INSTALL CONDUIT WITH SIZES AS INDICATED OR REQUIRED RIGIDLY SECURED IN PLACE WITH NOT LESS THAN ONE MALLEABLE, CORROSION PROOF, ALLOY STRAP OR HANGER PER EIGHT FEET OF CONDUIT. PERFORATED STRAPPING IS NOT ACCEPTABLE.
- SUPPORT ALL CONDUITS FROM STRUCTURAL SLABS, WALLS, STRUCTURAL MEMBERS AND ROOF JOISTS. DO NOT SUPPORT CONDUITS FROM CEILING TIE WIRES, DUCTWORK, PIPING OR OTHER NONSTRUCTURAL MEMBERS.

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8)

ALL WALL AND CEILING FIXTURES SHALL BE INDEPENDENTLY AND SECURELY MOUNTED SO THAT THEY ARE NOT DEPENDENT ON CEILING FINISH FOR SUPPORT AND CANNOT BE ROTATED OR DISPLACED. FIXTURES AND DEVICES MOUNTED IN SUSPENDED ACOUSTICAL TILE SHALL HAVE CHANNEL SUPPORTS ACROSS THE MAIN GRID RUNNERS OR GRID SUPPORTS, SECURELY TIED DOWN OR ANCHORED SO AS NOT TO CAUSE TILE TO SAG AND SO THAT FIXTURE OR DEVICE CANNOT BE LIFTED, ROTATED OR DISPLACED.

B)

- ALL NEW BREAKERS BOLTED IN PLACE. ALL NEW BREAKERS MINIMUM 10,000 AIC. ALL MULTI-POLE BREAKERS COMMON TRIP FURNISH 4 BREAKER LOCK-ONS FOR EACH BRANCH CIRCUIT PANELBOARD.
- PANEL FEEDERS TO BE BALANCED WITHIN 5% UNDER FULL LOAD CONDITIONS.

 ELECTRICAL CONTRACTOR SHALL VERIFY ELECTRICAL REQUIREMENTS FOR MOTORS AND EQUIPMENT BEFORE ORDERING BREAKERS FOR PANELBOARDS.

- CIRCUIT DIRECTORIES TO BE PROPERLY FILLED IN WITH A TYPEWRITER AT THE COMPLETION JOB, WITH DESIGNATIONS AS DETERMINED BY ARCHITECT.
- DEVICES WITH HOME RUN SYMBOLS DENOTE DEDICATED CIRCUITS.

 THIS CONTRACTOR SHALL GUARANTEE ALL LABOR AND MATERIAL INSTALLED OR FURNISHED UNDER CONTRACT FOR A PERIOD NOT LESS THAN ONE YEAR AFTER FINAL ACCEPTANCE OF THE BUILDING. PROVIDE ELECTRICAL SYSTEMS IDENTIFICATION AS INDICATED IN SPECIFICATIONS.

	U	(i)	DAYBRITE METALUX COLUMBIA WILLIAMS
OR RESPONSIBLE FOR PROVIDING			4', 3 LAMP, 120V, SURFACE MOUNTED FLUORESCENT ENAMEL FINISH AND HIGH IMPACT ACRYLIC LENS. ELE
PROVED EQUAL UPON REQUEST OF RS.	ஏ	6	LITHONIA AW-232-AR-120V-MEB DAYBRITE METALUX COLUMBIA
FIXTURES BEFORE RELEASING			4', 2 LAMP, 120V, SURFACE MOUNTED FLUORESCENT ENAMEL FINISH AND HIGH IMPACT ACRYLIC LENS. ELI
RAPID START, LESS THAN 10% THD	7		LITHONIA LF6/13TT-120-F6LF1-PF
DIVIDUALLY FUSED, -20°F BALLASTS. S TO CONTROL OUTBOARD LAMP	A	9	HALO STAFF KURT VERSEN CAPRI PRESCOLITE
AND HAVE THERMAL PROTECTIVE			6", 13W, 120V, ROUND RECESSED FLUORESCENT LENS AND FLANGE. DIE CAST ALUMINUM FRAME.
AMP BALLASTS ARE UTILIZED. V SWITCHED LAMP OF "NL" OR AND SATELLITE FIXTURE TO HAVE ST LOCATED IN MASTER FIXTURE.	œ	1	LITHONIA AF10-232-120V-MEB-PO DAYBRITE METALUX COLUMBIA WILLIAMS
			4', 2 LAMP, 120V, STEM MOUNTED INDUSTRIAL FINISH, ELECTRONIC BALLAST. PROVIDE STEMS RECOMMENDATIONS. MOUNT AT 9'-0" ABOVE F
	Ø	Ю	ELLIPTAR APPROVED EQUAL
PECIAL OR ELECTRICAL SYSTEMS YSTEMS AND SERVICES. HE SHALL VICES TO THE BUILDING OR PORTION UR AT OWNER'S CONVENIENCE. EACH VITRACTOR SHALL OBTAIN PERMISSION			24" WIDE, 100W, METAL HALIDE, 120V WALL MOUNTED MOUNT UP 9'-0" AFF
AND INFORMING THEM OF THE THAT THE SHUTDOWN CAN BE MADE MAIN CONNECTION AT SWITCHBOARDS	10	(ABOLITE AD2-100M-120V SPERO APROVED EQUAL
	v		100W, 120V, METAL HALIDE, RLM, FIXTURE, ANGLED WTRB-100-MH-WHT REMOTE BALLAST
	3	Ю	LITHONIA WPCW-100I-120V-LPI HOLOPHANE LUMARK
			100W, 120V, INCANDESCENT WALL PACK WITH MOUNT UP 8'0" ABOVE FINISHED GRADE OR
ONCEALED IN ALL AREAS. DUNTED UNLESS OTHERWISE NOTED.	12	(E)	LITHONIA TWH-100M-120V-SF HOLOPHANE LUMARK
AND NATIONAL ELECTRICAL CODES.			100W, 120V, METAL HALIDE, WALL PACK WITH DIE CA MOUNT UP 9'0" ABOVE FINISHED GRADE OR AS NOTE
R TRADES TO AVOID CONFLIC	×	₩	
TE ELECTRICAL SYSTEM PER CONTRACT JOB COMPLETION.	5		GLE FACE, REI
ED ON PLANS WITH THE OWNER, BRANCH CIRCUIT WIRING IN ACCORDANCE	X	Ęķ.	LITHONIA ELUZ-AM SURELITE CHLORIDE DUAL LITE

		ELECTRICAL LIGHTING FIXTURE SCHEDULE
TYPE	SYMBOL	MANUFACTURER CATALOG NUMBER LAMPS (ALTERNATES)
-	9	LITHONIA 2PM3-G-B-332-18-LS-12OV-MEB 3 - F32T8/SP35/RS DAYBRITE METALUX COLUMBIA WILLIAMS
	41.50	2'x4' 3 LAMP, 120V, RECESSED PREMIUM GRID TROFFER WITH 3" DEEP, 18 CELL, SILVER, SEMI-SPECULAR PARABOLIC LOUVER AND BLACK REVEAL. ELECTRONIC BALLAST.
22	<u></u>	LITHONIA 2PM3-G-B-432-24-LS-120V-MEB 4-F32T8/SP35/RS DAYBRITE METALUX COLUMBIA WILLIAMS
		2'x4' 4 LAMP, 120V, RECESSED PREMIUM GRID TROFFER WITH 3" DEEP, 24 CELL, SILVER, SEMI— SPECULAR PARABOLIC LOUVER AND BLACK REVEAL. ELECTRONIC BALLAST.
W	9	LITHONIA 2SPG-332-A12125-120V-MEB 3-F32T8/SP35/RS DAYBRITE METALUX COLUMBIA WILLIAMS
		2'x4' 3 LAMP, 120V, RECESSED PREMIUM GRID TROFFER WITH .125" THICK K-12, VIRGIN ACRYLIC LENS, SET IN A HINGED AND LATCHED FLAT STEEL DIFFUSER FRAME. ELECTRONIC BALLAST.
4	(a)	LITHONIA DMSW-332-AR-120V-MEB-AL 3-F32T2/SP35/RS DAYBRITE METALUX COLUMBIA WILLIAMS
(A)		4', 3 LAMP, 120V, SURFACE MOUNTED FLUORESCENT LUMINAIRE WITH IMPACT-RESISTANT ACRYLIC