

ELECTRICAL SYMBOL LEGEND																																																																																																																													
NOTE: - SYMBOLS IN DASHED LINE INDICATE EXISTING DEVICES. - ALL SYMBOLS MAY NOT BE USED IN THIS PROJECT.																																																																																																																													
ABBREVIATIONS/SUFFIXES <table> <tr><td>A.F.F.</td><td>ABOVE FINISHED FLOOR</td></tr> <tr><td>A.F.G.</td><td>ABOVE FINISHED GRADE</td></tr> <tr><td>AWG</td><td>AMERICAN WIRE GAUGE</td></tr> <tr><td>BD</td><td>BOARD</td></tr> <tr><td>C.</td><td>CONDUIT</td></tr> <tr><td>CAB.</td><td>CABINET</td></tr> <tr><td>CB.</td><td>CIRCUIT BREAKER</td></tr> <tr><td>CKT.</td><td>CIRCUIT</td></tr> <tr><td>CCTV</td><td>CLOSED CIRCUIT TELEVISION</td></tr> <tr><td>CO-THW</td><td>COPPER WIRE WITH THERMOPLASTIC, HEAT RESISTANT, MOISTURE RESISTANT CHARACTERISTICS</td></tr> <tr><td>E.A.</td><td>EMPTY CONDUIT</td></tr> <tr><td>E.W.C.</td><td>ELECTRIC WATER COOLER</td></tr> <tr><td>E</td><td>EXISTING TO REMAIN</td></tr> <tr><td>ER</td><td>EXISTING TO BE RELOCATED OR REMOVED</td></tr> <tr><td>EMT</td><td>ELECTRICAL METALLIC TUBING</td></tr> <tr><td>EPO</td><td>EMERGENCY POWER OFF</td></tr> <tr><td>F.A.</td><td>FIRE ALARM</td></tr> <tr><td>G.F.I.</td><td>GROUND FAULT INTERRUPTER</td></tr> <tr><td>GND.</td><td>GROUND</td></tr> <tr><td>HID</td><td>HIGH INTENSIVE DISCHARGE</td></tr> <tr><td>HPS</td><td>HIGH PRESSURE SODIUM</td></tr> <tr><td>I.G.</td><td>ISOLATED GROUND</td></tr> <tr><td>LT.</td><td>LIGHT</td></tr> <tr><td>LTG.</td><td>LIGHTING</td></tr> <tr><td>MCB</td><td>MAIN CIRCUIT BREAKER</td></tr> <tr><td>MLO</td><td>MAIN LUGS ONLY</td></tr> <tr><td>MT.</td><td>MOUNT</td></tr> <tr><td>MTG. HT.</td><td>MOUNTING HEIGHT</td></tr> <tr><td>N.E.C.</td><td>NATIONAL ELECTRICAL CODE</td></tr> <tr><td>N.I.C.</td><td>NOT IN CONTRACT</td></tr> <tr><td>NIGHT LIGHT</td><td>NIGHT LIGHT</td></tr> <tr><td>NFPA</td><td>NATIONAL FIRE PROTECTION ASSOCIATION</td></tr> <tr><td>NEMA</td><td>NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION.</td></tr> <tr><td>LMC</td><td>LIQUID TIGHT FLEXIBLE METAL CONDUIT</td></tr> <tr><td>P.A.</td><td>PUBLIC ADDRESS</td></tr> <tr><td>PNL.</td><td>PANEL</td></tr> <tr><td>PTZ</td><td>PAN-TILT-ZOOM CAMERA</td></tr> <tr><td>RECEPT.</td><td>RECEPTACLE</td></tr> <tr><td>RMC</td><td>RIGID METAL CONDUIT</td></tr> <tr><td>S.D.B.C.</td><td>SOFT DRAWN BARE COPPER</td></tr> <tr><td>SW.</td><td>SWITCH</td></tr> <tr><td>SPD</td><td>SURGE PROTECTION DEVICE</td></tr> <tr><td>U.O.N</td><td>UNLESS OTHERWISE NOTED</td></tr> <tr><td>V.P.</td><td>VAPOR PROOF</td></tr> <tr><td>VOC</td><td>VOLATILE ORGANIC COMPOUND</td></tr> <tr><td>WAP</td><td>WIRELESS ACCESS POINT</td></tr> <tr><td>W.G.</td><td>WIRE GUARD</td></tr> <tr><td>W.P.F.</td><td>WEATHER PROOF (NEMA 3R ENCLOSURE)</td></tr> <tr><td>X.P.</td><td>EXPLOSION PROOF (CLASS TO MEET N.E.C.)</td></tr> </table>	A.F.F.	ABOVE FINISHED FLOOR	A.F.G.	ABOVE FINISHED GRADE	AWG	AMERICAN WIRE GAUGE	BD	BOARD	C.	CONDUIT	CAB.	CABINET	CB.	CIRCUIT BREAKER	CKT.	CIRCUIT	CCTV	CLOSED CIRCUIT TELEVISION	CO-THW	COPPER WIRE WITH THERMOPLASTIC, HEAT RESISTANT, MOISTURE RESISTANT CHARACTERISTICS	E.A.	EMPTY CONDUIT	E.W.C.	ELECTRIC WATER COOLER	E	EXISTING TO REMAIN	ER	EXISTING TO BE RELOCATED OR REMOVED	EMT	ELECTRICAL METALLIC TUBING	EPO	EMERGENCY POWER OFF	F.A.	FIRE ALARM	G.F.I.	GROUND FAULT INTERRUPTER	GND.	GROUND	HID	HIGH INTENSIVE DISCHARGE	HPS	HIGH PRESSURE SODIUM	I.G.	ISOLATED GROUND	LT.	LIGHT	LTG.	LIGHTING	MCB	MAIN CIRCUIT BREAKER	MLO	MAIN LUGS ONLY	MT.	MOUNT	MTG. HT.	MOUNTING HEIGHT	N.E.C.	NATIONAL ELECTRICAL CODE	N.I.C.	NOT IN CONTRACT	NIGHT LIGHT	NIGHT LIGHT	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION.	LMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT	P.A.	PUBLIC ADDRESS	PNL.	PANEL	PTZ	PAN-TILT-ZOOM CAMERA	RECEPT.	RECEPTACLE	RMC	RIGID METAL CONDUIT	S.D.B.C.	SOFT DRAWN BARE COPPER	SW.	SWITCH	SPD	SURGE PROTECTION DEVICE	U.O.N	UNLESS OTHERWISE NOTED	V.P.	VAPOR PROOF	VOC	VOLATILE ORGANIC COMPOUND	WAP	WIRELESS ACCESS POINT	W.G.	WIRE GUARD	W.P.F.	WEATHER PROOF (NEMA 3R ENCLOSURE)	X.P.	EXPLOSION PROOF (CLASS TO MEET N.E.C.)	POWER EQUIPMENT <table> <tr><td></td><td>HIGH VOLTAGE DISTRIBUTION PANELBOARD 277/480V</td></tr> <tr><td></td><td>LOW VOLTAGE DISTRIBUTION PANELBOARD 120/208V</td></tr> <tr><td></td><td>HIGH VOLTAGE PANELBOARD 277/480V.</td></tr> <tr><td></td><td>LOW VOLTAGE PANELBOARD 120/208V.</td></tr> <tr><td></td><td>HD FUSIBLE DISCONNECT OR CIRCUIT BREAKER, NEMA 3R WHEN OUTDOORS. 3/4"NO. OF POLES, 60=SWITCH SIZE, 50=FUSE, NF=NON-FUSED, 2=FUSE SIZE AS REQUIRED BY LOAD.</td></tr> <tr><td></td><td>MOTOR STARTER W/CONTRACT, XMFR, HOA SELECTOR SW, AND RED PILOT LIGHT, NEMA SIZE BY MOTOR, PROVIDE NEMA 3R ENCLOSURE WHEN OUTDOORS</td></tr> <tr><td></td><td>COMBINATION MOTOR STARTER WITH DISCONNECT SWITCH OR CB, SAME ENCLOSURE AND ACCESSORIES AS INDICATED ABOVE</td></tr> <tr><td></td><td>CONTRACTOR, SAME ENCLOSURE AND ACCESSORIES AS STARTERS</td></tr> <tr><td></td><td>VARIABLE FREQUENCY DRIVE, PROVIDED BY DIVISION 15 AND INSTALLED BY ELECTRICAL CONTRACTOR.</td></tr> <tr><td></td><td>FAN</td></tr> <tr><td></td><td>MOTOR "2" WHEN SHOWN INDICATES HORSEPOWER</td></tr> <tr><td></td><td>TRANSFORMER</td></tr> <tr><td></td><td>MOTORIZED DAMPER</td></tr> </table>		HIGH VOLTAGE DISTRIBUTION PANELBOARD 277/480V		LOW VOLTAGE DISTRIBUTION PANELBOARD 120/208V		HIGH VOLTAGE PANELBOARD 277/480V.		LOW VOLTAGE PANELBOARD 120/208V.		HD FUSIBLE DISCONNECT OR CIRCUIT BREAKER, NEMA 3R WHEN OUTDOORS. 3/4"NO. OF POLES, 60=SWITCH SIZE, 50=FUSE, NF=NON-FUSED, 2=FUSE SIZE AS REQUIRED BY LOAD.		MOTOR STARTER W/CONTRACT, XMFR, HOA SELECTOR SW, AND RED PILOT LIGHT, NEMA SIZE BY MOTOR, PROVIDE NEMA 3R ENCLOSURE WHEN OUTDOORS		COMBINATION MOTOR STARTER WITH DISCONNECT SWITCH OR CB, SAME ENCLOSURE AND ACCESSORIES AS INDICATED ABOVE		CONTRACTOR, SAME ENCLOSURE AND ACCESSORIES AS STARTERS		VARIABLE FREQUENCY DRIVE, PROVIDED BY DIVISION 15 AND INSTALLED BY ELECTRICAL CONTRACTOR.		FAN		MOTOR "2" WHEN SHOWN INDICATES HORSEPOWER		TRANSFORMER		MOTORIZED DAMPER
A.F.F.	ABOVE FINISHED FLOOR																																																																																																																												
A.F.G.	ABOVE FINISHED GRADE																																																																																																																												
AWG	AMERICAN WIRE GAUGE																																																																																																																												
BD	BOARD																																																																																																																												
C.	CONDUIT																																																																																																																												
CAB.	CABINET																																																																																																																												
CB.	CIRCUIT BREAKER																																																																																																																												
CKT.	CIRCUIT																																																																																																																												
CCTV	CLOSED CIRCUIT TELEVISION																																																																																																																												
CO-THW	COPPER WIRE WITH THERMOPLASTIC, HEAT RESISTANT, MOISTURE RESISTANT CHARACTERISTICS																																																																																																																												
E.A.	EMPTY CONDUIT																																																																																																																												
E.W.C.	ELECTRIC WATER COOLER																																																																																																																												
E	EXISTING TO REMAIN																																																																																																																												
ER	EXISTING TO BE RELOCATED OR REMOVED																																																																																																																												
EMT	ELECTRICAL METALLIC TUBING																																																																																																																												
EPO	EMERGENCY POWER OFF																																																																																																																												
F.A.	FIRE ALARM																																																																																																																												
G.F.I.	GROUND FAULT INTERRUPTER																																																																																																																												
GND.	GROUND																																																																																																																												
HID	HIGH INTENSIVE DISCHARGE																																																																																																																												
HPS	HIGH PRESSURE SODIUM																																																																																																																												
I.G.	ISOLATED GROUND																																																																																																																												
LT.	LIGHT																																																																																																																												
LTG.	LIGHTING																																																																																																																												
MCB	MAIN CIRCUIT BREAKER																																																																																																																												
MLO	MAIN LUGS ONLY																																																																																																																												
MT.	MOUNT																																																																																																																												
MTG. HT.	MOUNTING HEIGHT																																																																																																																												
N.E.C.	NATIONAL ELECTRICAL CODE																																																																																																																												
N.I.C.	NOT IN CONTRACT																																																																																																																												
NIGHT LIGHT	NIGHT LIGHT																																																																																																																												
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION																																																																																																																												
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION.																																																																																																																												
LMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT																																																																																																																												
P.A.	PUBLIC ADDRESS																																																																																																																												
PNL.	PANEL																																																																																																																												
PTZ	PAN-TILT-ZOOM CAMERA																																																																																																																												
RECEPT.	RECEPTACLE																																																																																																																												
RMC	RIGID METAL CONDUIT																																																																																																																												
S.D.B.C.	SOFT DRAWN BARE COPPER																																																																																																																												
SW.	SWITCH																																																																																																																												
SPD	SURGE PROTECTION DEVICE																																																																																																																												
U.O.N	UNLESS OTHERWISE NOTED																																																																																																																												
V.P.	VAPOR PROOF																																																																																																																												
VOC	VOLATILE ORGANIC COMPOUND																																																																																																																												
WAP	WIRELESS ACCESS POINT																																																																																																																												
W.G.	WIRE GUARD																																																																																																																												
W.P.F.	WEATHER PROOF (NEMA 3R ENCLOSURE)																																																																																																																												
X.P.	EXPLOSION PROOF (CLASS TO MEET N.E.C.)																																																																																																																												
	HIGH VOLTAGE DISTRIBUTION PANELBOARD 277/480V																																																																																																																												
	LOW VOLTAGE DISTRIBUTION PANELBOARD 120/208V																																																																																																																												
	HIGH VOLTAGE PANELBOARD 277/480V.																																																																																																																												
	LOW VOLTAGE PANELBOARD 120/208V.																																																																																																																												
	HD FUSIBLE DISCONNECT OR CIRCUIT BREAKER, NEMA 3R WHEN OUTDOORS. 3/4"NO. OF POLES, 60=SWITCH SIZE, 50=FUSE, NF=NON-FUSED, 2=FUSE SIZE AS REQUIRED BY LOAD.																																																																																																																												
	MOTOR STARTER W/CONTRACT, XMFR, HOA SELECTOR SW, AND RED PILOT LIGHT, NEMA SIZE BY MOTOR, PROVIDE NEMA 3R ENCLOSURE WHEN OUTDOORS																																																																																																																												
	COMBINATION MOTOR STARTER WITH DISCONNECT SWITCH OR CB, SAME ENCLOSURE AND ACCESSORIES AS INDICATED ABOVE																																																																																																																												
	CONTRACTOR, SAME ENCLOSURE AND ACCESSORIES AS STARTERS																																																																																																																												
	VARIABLE FREQUENCY DRIVE, PROVIDED BY DIVISION 15 AND INSTALLED BY ELECTRICAL CONTRACTOR.																																																																																																																												
	FAN																																																																																																																												
	MOTOR "2" WHEN SHOWN INDICATES HORSEPOWER																																																																																																																												
	TRANSFORMER																																																																																																																												
	MOTORIZED DAMPER																																																																																																																												
LIGHTING FIXTURES <table> <tr><td></td><td>LIGHTING FIXTURE IDENTIFICATION, SEE SCHEDULE</td></tr> <tr><td></td><td>HID OR FLUORESCENT DOWN LIGHT</td></tr> <tr><td></td><td>DOWN LIGHT SURFACE MOUNTED</td></tr> <tr><td></td><td>ACCENT TYPE LIGHT FIXTURE</td></tr> <tr><td></td><td>HID OR FLUORESCENT WALL MOUNTED LIGHT FIXTURE</td></tr> <tr><td></td><td>SURFACE MOUNTED CEILING FAN WITH LIGHT FIXTURE</td></tr> <tr><td></td><td>SURFACE OR PENDANT MOUNTED FLUORESCENT LIGHT FIXTURE</td></tr> <tr><td></td><td>WALL MOUNTED FLUORESCENT LIGHT FIXTURE</td></tr> <tr><td></td><td>SURFACE OR PENDANT MOUNTED FLUORESCENT STRIP</td></tr> <tr><td></td><td>HID DOWN LIGHT ON NIGHT LIGHT CIRCUIT & EQUIPPED WITH RESTRIKE SYSTEM</td></tr> <tr><td></td><td>HID WALL MOUNTED LIGHT FIXTURE ON NIGHT LIGHT CIRCUIT</td></tr> <tr><td></td><td>SURFACE MOUNTED FLUORESCENT LIGHT FIXTURE ON LIGHT CIRCUIT OR EMERGENCY BATTERY PACK.</td></tr> <tr><td></td><td>EXIT LIGHT</td></tr> <tr><td></td><td>WALL MOUNTED EXIT LIGHT SHADED QUADRANT INDICATES NUMBER OF FACES, ARROWS AS SHOWN OR REQUIRED.</td></tr> <tr><td></td><td>UNIT EQUIPMENT BATTERY BACKUP EMERGENCY LIGHT</td></tr> <tr><td></td><td>COMBINATION EXIT / EMERGENCY LIGHT WITH BATTERY BACKUP.</td></tr> <tr><td></td><td>LANDSCAPE LIGHT FIXTURE</td></tr> <tr><td></td><td>POLE MOUNTED SINGLE SITE LIGHTING FIXTURE</td></tr> <tr><td></td><td>POLE MOUNTED DOUBLE SITE LIGHTING FIXTURE</td></tr> <tr><td></td><td>DAYLIGHT HARVESTING SENSOR TO INCLUDE POWER PACK AND RELAY AS REQUIRED.</td></tr> <tr><td></td><td>CEILING MOUNTED OCCUPANCY SENSOR, INCLUDE POWER PACK AS REQUIRED.</td></tr> <tr><td></td><td>OCCUPANCY SENSOR POWER PACK.</td></tr> <tr><td></td><td>SINGLE POLE SWITCH - 20 AMP (48" A.F.F.)</td></tr> <tr><td></td><td>FAN SPEED CONTROL (48" A.F.F.)</td></tr> <tr><td></td><td>KEY OPERATED SWITCH - 20 AMP (48" A.F.F.)</td></tr> <tr><td></td><td>MOTOR RATED SWITCH (ONE, TWO OR THREE POLE AS REQUIRED)</td></tr> </table>		LIGHTING FIXTURE IDENTIFICATION, SEE SCHEDULE		HID OR FLUORESCENT DOWN LIGHT		DOWN LIGHT SURFACE MOUNTED		ACCENT TYPE LIGHT FIXTURE		HID OR FLUORESCENT WALL MOUNTED LIGHT FIXTURE		SURFACE MOUNTED CEILING FAN WITH LIGHT FIXTURE		SURFACE OR PENDANT MOUNTED FLUORESCENT LIGHT FIXTURE		WALL MOUNTED FLUORESCENT LIGHT FIXTURE		SURFACE OR PENDANT MOUNTED FLUORESCENT STRIP		HID DOWN LIGHT ON NIGHT LIGHT CIRCUIT & EQUIPPED WITH RESTRIKE SYSTEM		HID WALL MOUNTED LIGHT FIXTURE ON NIGHT LIGHT CIRCUIT		SURFACE MOUNTED FLUORESCENT LIGHT FIXTURE ON LIGHT CIRCUIT OR EMERGENCY BATTERY PACK.		EXIT LIGHT		WALL MOUNTED EXIT LIGHT SHADED QUADRANT INDICATES NUMBER OF FACES, ARROWS AS SHOWN OR REQUIRED.		UNIT EQUIPMENT BATTERY BACKUP EMERGENCY LIGHT		COMBINATION EXIT / EMERGENCY LIGHT WITH BATTERY BACKUP.		LANDSCAPE LIGHT FIXTURE		POLE MOUNTED SINGLE SITE LIGHTING FIXTURE		POLE MOUNTED DOUBLE SITE LIGHTING FIXTURE		DAYLIGHT HARVESTING SENSOR TO INCLUDE POWER PACK AND RELAY AS REQUIRED.		CEILING MOUNTED OCCUPANCY SENSOR, INCLUDE POWER PACK AS REQUIRED.		OCCUPANCY SENSOR POWER PACK.		SINGLE POLE SWITCH - 20 AMP (48" A.F.F.)		FAN SPEED CONTROL (48" A.F.F.)		KEY OPERATED SWITCH - 20 AMP (48" A.F.F.)		MOTOR RATED SWITCH (ONE, TWO OR THREE POLE AS REQUIRED)	POWER DEVICES <table> <tr><td></td><td>DUPLEX RECEPT - 20 AMP NEMA 5-20R (18" A.F.F.) U.O.N.</td></tr> <tr><td></td><td>SINGLE RECEPT - 20 AMP NEMA 5-20R (18" A.F.F.) U.O.N.</td></tr> <tr><td></td><td>DUPLEX RECEPT, MOUNTED ABOVE COUNTER - 20 AMP NEMA 5-20R (44" A.F.F.) U.O.N.</td></tr> <tr><td></td><td>DUPLEX RECEPT, (UPS CONNECTION) - 20 AMP NEMA 5-20R (18" A.F.F.)</td></tr> <tr><td></td><td>POWER RECEPT, TWIST LOCK - 20 AMP NEMA L5-20R (18" A.F.F.)</td></tr> <tr><td></td><td>QUAD - PLEX RECEPT - 20 AMP NEMA 5-20R (18" A.F.F.)</td></tr> <tr><td></td><td>DUPLEX RECEPT FLUSH FLOOR MOUNTED - 20 AMP NEMA 5-20R</td></tr> <tr><td></td><td>DUPLEX RECEPT FLUSH CEILING MOUNTED - 20 AMP NEMA 5-20R</td></tr> <tr><td></td><td>SPECIAL PURPOSE RECEPT (18" A.F.F.)</td></tr> <tr><td></td><td>JUNCTION BOX</td></tr> <tr><td></td><td>WALL MOUNTED JUNCTION BOX</td></tr> <tr><td></td><td>PULL BOX</td></tr> <tr><td></td><td>GROUND BAR</td></tr> </table>		DUPLEX RECEPT - 20 AMP NEMA 5-20R (18" A.F.F.) U.O.N.		SINGLE RECEPT - 20 AMP NEMA 5-20R (18" A.F.F.) U.O.N.		DUPLEX RECEPT, MOUNTED ABOVE COUNTER - 20 AMP NEMA 5-20R (44" A.F.F.) U.O.N.		DUPLEX RECEPT, (UPS CONNECTION) - 20 AMP NEMA 5-20R (18" A.F.F.)		POWER RECEPT, TWIST LOCK - 20 AMP NEMA L5-20R (18" A.F.F.)		QUAD - PLEX RECEPT - 20 AMP NEMA 5-20R (18" A.F.F.)		DUPLEX RECEPT FLUSH FLOOR MOUNTED - 20 AMP NEMA 5-20R		DUPLEX RECEPT FLUSH CEILING MOUNTED - 20 AMP NEMA 5-20R		SPECIAL PURPOSE RECEPT (18" A.F.F.)		JUNCTION BOX		WALL MOUNTED JUNCTION BOX		PULL BOX		GROUND BAR																																														
	LIGHTING FIXTURE IDENTIFICATION, SEE SCHEDULE																																																																																																																												
	HID OR FLUORESCENT DOWN LIGHT																																																																																																																												
	DOWN LIGHT SURFACE MOUNTED																																																																																																																												
	ACCENT TYPE LIGHT FIXTURE																																																																																																																												
	HID OR FLUORESCENT WALL MOUNTED LIGHT FIXTURE																																																																																																																												
	SURFACE MOUNTED CEILING FAN WITH LIGHT FIXTURE																																																																																																																												
	SURFACE OR PENDANT MOUNTED FLUORESCENT LIGHT FIXTURE																																																																																																																												
	WALL MOUNTED FLUORESCENT LIGHT FIXTURE																																																																																																																												
	SURFACE OR PENDANT MOUNTED FLUORESCENT STRIP																																																																																																																												
	HID DOWN LIGHT ON NIGHT LIGHT CIRCUIT & EQUIPPED WITH RESTRIKE SYSTEM																																																																																																																												
	HID WALL MOUNTED LIGHT FIXTURE ON NIGHT LIGHT CIRCUIT																																																																																																																												
	SURFACE MOUNTED FLUORESCENT LIGHT FIXTURE ON LIGHT CIRCUIT OR EMERGENCY BATTERY PACK.																																																																																																																												
	EXIT LIGHT																																																																																																																												
	WALL MOUNTED EXIT LIGHT SHADED QUADRANT INDICATES NUMBER OF FACES, ARROWS AS SHOWN OR REQUIRED.																																																																																																																												
	UNIT EQUIPMENT BATTERY BACKUP EMERGENCY LIGHT																																																																																																																												
	COMBINATION EXIT / EMERGENCY LIGHT WITH BATTERY BACKUP.																																																																																																																												
	LANDSCAPE LIGHT FIXTURE																																																																																																																												
	POLE MOUNTED SINGLE SITE LIGHTING FIXTURE																																																																																																																												
	POLE MOUNTED DOUBLE SITE LIGHTING FIXTURE																																																																																																																												
	DAYLIGHT HARVESTING SENSOR TO INCLUDE POWER PACK AND RELAY AS REQUIRED.																																																																																																																												
	CEILING MOUNTED OCCUPANCY SENSOR, INCLUDE POWER PACK AS REQUIRED.																																																																																																																												
	OCCUPANCY SENSOR POWER PACK.																																																																																																																												
	SINGLE POLE SWITCH - 20 AMP (48" A.F.F.)																																																																																																																												
	FAN SPEED CONTROL (48" A.F.F.)																																																																																																																												
	KEY OPERATED SWITCH - 20 AMP (48" A.F.F.)																																																																																																																												
	MOTOR RATED SWITCH (ONE, TWO OR THREE POLE AS REQUIRED)																																																																																																																												
	DUPLEX RECEPT - 20 AMP NEMA 5-20R (18" A.F.F.) U.O.N.																																																																																																																												
	SINGLE RECEPT - 20 AMP NEMA 5-20R (18" A.F.F.) U.O.N.																																																																																																																												
	DUPLEX RECEPT, MOUNTED ABOVE COUNTER - 20 AMP NEMA 5-20R (44" A.F.F.) U.O.N.																																																																																																																												
	DUPLEX RECEPT, (UPS CONNECTION) - 20 AMP NEMA 5-20R (18" A.F.F.)																																																																																																																												
	POWER RECEPT, TWIST LOCK - 20 AMP NEMA L5-20R (18" A.F.F.)																																																																																																																												
	QUAD - PLEX RECEPT - 20 AMP NEMA 5-20R (18" A.F.F.)																																																																																																																												
	DUPLEX RECEPT FLUSH FLOOR MOUNTED - 20 AMP NEMA 5-20R																																																																																																																												
	DUPLEX RECEPT FLUSH CEILING MOUNTED - 20 AMP NEMA 5-20R																																																																																																																												
	SPECIAL PURPOSE RECEPT (18" A.F.F.)																																																																																																																												
	JUNCTION BOX																																																																																																																												
	WALL MOUNTED JUNCTION BOX																																																																																																																												
	PULL BOX																																																																																																																												
	GROUND BAR																																																																																																																												
WIRING <table> <tr><td></td><td>BRANCH CIRCUIT OR FEEDER WIRING IN CONDUIT. NO Ticks INDICATES 2 # 12 CONDUCTORS & 1 # 12 GROUND IN 3/4" CONDUIT. TICK MARKS WHEN SHOWN, INDICATES NUMBER OF # 12 CONDUCTORS IF OTHER THAN THREE (1) INDICATES GROUND, CONDUIT LARGER THAN 3/4" & CONDUCTOR LARGER THAN # 12 SHALL BE AS INDICATED.</td></tr> <tr><td></td><td>HOME RUN TO PANEL "A" = PANEL DESIGNATION, 1,3,5 = CIRCUIT NUMBERS. U.O.N. MINIMUM SIZE OF 3/4"C AND MAXIMUM OF THREE CIRCUITS PER HOMERUN. (DEDICATED NEUTRAL FOR EACH HOT WIRES MUST BE PROVIDED)</td></tr> <tr><td></td><td>FLEXIBLE CONDUIT</td></tr> <tr><td></td><td>CONDUIT RUN CONCEALED IN CEILING OR WALLS</td></tr> <tr><td></td><td>CONDUIT RUN UNDERGROUND OR IN SLAB</td></tr> <tr><td></td><td>CONDUIT RUN EXPOSED</td></tr> <tr><td></td><td>CAPPED CONDUIT</td></tr> <tr><td></td><td>SYSTEM AND/OR EQUIPMENT GROUNDING CONDUCTOR</td></tr> <tr><td></td><td>GROUNDING ELECTRODE AND CONDUCTOR SYSTEM</td></tr> <tr><td></td><td>CONDUIT SEAL</td></tr> <tr><td></td><td>CABLE TRAY</td></tr> </table>		BRANCH CIRCUIT OR FEEDER WIRING IN CONDUIT. NO Ticks INDICATES 2 # 12 CONDUCTORS & 1 # 12 GROUND IN 3/4" CONDUIT. TICK MARKS WHEN SHOWN, INDICATES NUMBER OF # 12 CONDUCTORS IF OTHER THAN THREE (1) INDICATES GROUND, CONDUIT LARGER THAN 3/4" & CONDUCTOR LARGER THAN # 12 SHALL BE AS INDICATED.		HOME RUN TO PANEL "A" = PANEL DESIGNATION, 1,3,5 = CIRCUIT NUMBERS. U.O.N. MINIMUM SIZE OF 3/4"C AND MAXIMUM OF THREE CIRCUITS PER HOMERUN. (DEDICATED NEUTRAL FOR EACH HOT WIRES MUST BE PROVIDED)		FLEXIBLE CONDUIT		CONDUIT RUN CONCEALED IN CEILING OR WALLS		CONDUIT RUN UNDERGROUND OR IN SLAB		CONDUIT RUN EXPOSED		CAPPED CONDUIT		SYSTEM AND/OR EQUIPMENT GROUNDING CONDUCTOR		GROUNDING ELECTRODE AND CONDUCTOR SYSTEM		CONDUIT SEAL		CABLE TRAY	DATA AND COMMUNICATIONS <table> <tr><td></td><td>TELEPHONE & DATA OUTLET (4"x 4"x 2 1/2" OUTLET BOX) (18" A.F.F.)</td></tr> <tr><td></td><td>TELEPHONE & DATA OUTLET FLUSH FLOOR MOUNTED</td></tr> <tr><td></td><td>DATA OUTLET (4"x 4"x 2 1/2" OUTLET BOX) (18" A.F.F.)</td></tr> <tr><td></td><td>TELEPHONE OUTLET FLUSH FLOOR MOUNTED</td></tr> <tr><td></td><td>TELEPHONE OUTLET (4"x 4"x 2 1/2" OUTLET BOX)(18" A.F.F.)</td></tr> <tr><td><</td></tr></table>		TELEPHONE & DATA OUTLET (4"x 4"x 2 1/2" OUTLET BOX) (18" A.F.F.)		TELEPHONE & DATA OUTLET FLUSH FLOOR MOUNTED		DATA OUTLET (4"x 4"x 2 1/2" OUTLET BOX) (18" A.F.F.)		TELEPHONE OUTLET FLUSH FLOOR MOUNTED		TELEPHONE OUTLET (4"x 4"x 2 1/2" OUTLET BOX)(18" A.F.F.)	<																																																																																											
	BRANCH CIRCUIT OR FEEDER WIRING IN CONDUIT. NO Ticks INDICATES 2 # 12 CONDUCTORS & 1 # 12 GROUND IN 3/4" CONDUIT. TICK MARKS WHEN SHOWN, INDICATES NUMBER OF # 12 CONDUCTORS IF OTHER THAN THREE (1) INDICATES GROUND, CONDUIT LARGER THAN 3/4" & CONDUCTOR LARGER THAN # 12 SHALL BE AS INDICATED.																																																																																																																												
	HOME RUN TO PANEL "A" = PANEL DESIGNATION, 1,3,5 = CIRCUIT NUMBERS. U.O.N. MINIMUM SIZE OF 3/4"C AND MAXIMUM OF THREE CIRCUITS PER HOMERUN. (DEDICATED NEUTRAL FOR EACH HOT WIRES MUST BE PROVIDED)																																																																																																																												
	FLEXIBLE CONDUIT																																																																																																																												
	CONDUIT RUN CONCEALED IN CEILING OR WALLS																																																																																																																												
	CONDUIT RUN UNDERGROUND OR IN SLAB																																																																																																																												
	CONDUIT RUN EXPOSED																																																																																																																												
	CAPPED CONDUIT																																																																																																																												
	SYSTEM AND/OR EQUIPMENT GROUNDING CONDUCTOR																																																																																																																												
	GROUNDING ELECTRODE AND CONDUCTOR SYSTEM																																																																																																																												
	CONDUIT SEAL																																																																																																																												
	CABLE TRAY																																																																																																																												
	TELEPHONE & DATA OUTLET (4"x 4"x 2 1/2" OUTLET BOX) (18" A.F.F.)																																																																																																																												
	TELEPHONE & DATA OUTLET FLUSH FLOOR MOUNTED																																																																																																																												
	DATA OUTLET (4"x 4"x 2 1/2" OUTLET BOX) (18" A.F.F.)																																																																																																																												
	TELEPHONE OUTLET FLUSH FLOOR MOUNTED																																																																																																																												
	TELEPHONE OUTLET (4"x 4"x 2 1/2" OUTLET BOX)(18" A.F.F.)																																																																																																																												
<																																																																																																																													

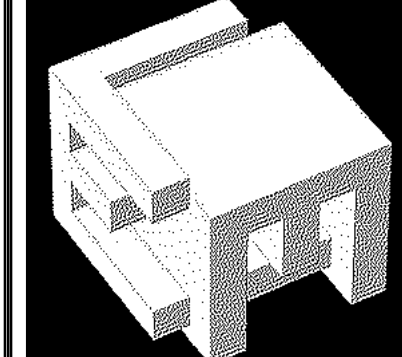
GENERAL NOTES:

1. SITE INVESTIGATION: PRIOR TO BIDDING THE CONTRACTOR SHALL VISIT THE JOBSITE AND BECOME ACQUAINTED WITH ALL OF THE EXISTING CONDITIONS WHICH WILL AFFECT HIS WORK. FAILURE TO DO SO WILL NOT BE ACCEPTED AS A REASON FOR REQUESTING EXTRA PAY WHERE THE EXISTING CONDITION RESULTS IN EXTRA MATERIAL OR LABOR. THE CONTRACTOR SHALL SUBMIT IN HIS BID AN AMOUNT THAT WOULD BE SET ASIDE FOR UNIDENTIFIED ITEMS.
2. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS MANNER AND SHALL BE A COMPLETED AND FULLY OPERATIVE TO THE ACCEPTANCE OF THE OWNER, GENERAL CONTRACTOR AND ENGINEER.
3. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR THE COMPLETE INSTALLATION OF THE ELECTRICAL SYSTEMS, ALL IN ACCORDANCE WITH THESE CONSTRUCTION DOCUMENTS.
4. CODES IN EFFECT:
ALL WORK PERFORMED UNDER THIS CONTRACT SHALL COMPLY WITH THE FLORIDA BUILDING CODE Seventh Edition (2020) AND NFPA CODES INCLUDING, BUT NOT LIMITED TO NFPA 70 - (2017 NEC), NFPA 72 (2013) - (FIRE ALARM) AND NFPA 101 - LIFE SAFETY CODE (2018), (2017) FLORIDA FIRE PREVENTION CODE.
5. THE CONTRACTOR SHALL PAY FOR ALL FEES, INSPECTIONS, TESTS, FINES, ETC., AS REQUIRED.
6. MINIMUM STANDARDS: THE MATERIAL, EQUIPMENT, INSTALLATIONS, AND WORKMANSHIP FURNISHED UNDER THIS SECTION SHALL CONFORM AT LEAST TO THE REQUIREMENTS OF THE REGULATING AGENCIES AS LISTED IN ITEM (3) ABOVE.
7. RESPONSIBILITIES: CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE INSTALLATION OF THE RACEWAY SYSTEM, EQUIPMENT AND WIRING IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
8. GUARANTEE: THE CONTRACTOR / SUB-CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE THAT ALL WORK EXECUTED UNDER THIS CONTRACT SHALL BE FREE FROM DEFECTS OF WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE AND THAT THE, AT HIS OWN EXPENSE, WILL REPAIR OR REPLACE ALL WORK WHICH BECOMES DEFECTIVE DURING THE TIME OF THE GUARANTEE.
9. ALL EQUIPMENT, SYSTEMS AND SYSTEM COMPONENTS SHALL BE FROM THE SAME MANUFACTURER AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND SPECIFICATIONS.
10. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS PRIOR TO ANY FABRICATIONS OR INSTALLATION.
11. OBTAIN FULL INFORMATION REGARDING PECULIARITIES AND LIMITATIONS OF SPACE AVAILABLE FOR INSTALLATION OF THE EQUIPMENT AND MATERIALS UNDER CONTRACT, AND PROVIDE READY ACCESSIBILITY TO ELECTRICAL EQUIPMENT, INCLUDING ANY PART OF SYSTEM REQUIRED TO BE REACHED FOR MAINTENANCE AND OPERATIONS.
12. PROVIDE ACCURATE LAYOUT, GRADES AND ELEVATIONS, TAKE PROPER PRECAUTIONS TO PROTECT WORK AND EQUIPMENT FROM DAMAGE.
13. PROVIDE CODE APPROVED FIRE STOPPING AT ALL CONDUIT PENETRATIONS THROUGHOUT BUILDING CONSTRUCTION TO MAINTAIN FIRE, SMOKE AND SOUND RATINGS. FIRE SEAL ALL PENETRATIONS, SEAL TELECOMMUNICATION SLEEVES AFTER CABLES HAVE BEEN INSTALLED.
14. RACEWAYS AND FITTINGS: CONDUIT RUNS SHALL BE CONCEALED IN CEILING SPACES AND WALL PARTITIONS. NO CONDUIT SHALL BE EXPOSED IN INTERIOR SPACES EXCEPT FLEXIBLE CONNECTION TO WIRE MOLDS. CONCEALED CONDUITS ARE TO BE EMT OR SMURF. SURFACE MOUNTED RACEWAYS (WIRE MOLD) ARE TO BE INSTALLED IN SOLID WALLS ONLY. THE MINIMUM CONDUIT SIZE IS TO BE 1/2". ALL CONDUITS AND RACEWAYS SHALL BE METAL.
15. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH OTHERS AS WELL AS PROVIDING TEMPORARY POWER.
16. VERIFY EQUIPMENT SIZES, VOLTAGE AND CURRENT CHARACTERISTICS, ETC., BEFORE THE ORDERING OF ANY EQUIPMENT AND PRIOR TO ROUGH-IN/IN FOR EQUIPMENT TO BE SUPPLIED TO OTHERS. NOTIFY ENGINEER OF ANY CONFLICT.
17. PROVIDE COMPLETE POWER CIRCUIT WIRING AND CONNECTIONS FOR EACH AND EVERY ITEM OF PERMANENT MECHANICAL EQUIPMENT. PRIOR TO ANY ROUGH-IN, COORDINATE WITH HVAC AND PLUMBING EQUIPMENT NAME PLATE TO OBTAIN CORRECT WIRE SIZE AND VOLTAGE. IF THE NAME PLATE LABEL REQUIRES THE OVERCURRENT PROTECTION DEVICE TO BE FUSES, PROVIDE A FUSED SWITCH WITH PROPER SIZE FUSES AT THE EQUIPMENT LOCATION.
18. CONDUCTOR: ALL CONDUCTOR WIRE AND CABLE SHALL CONSIST OF 98% CONDUCTIVITY COPPER, OR ALUMINUM. ALL CABLES SHALL BE SINGLE CONDUCTOR, 600 VOLT, THERMOPLASTIC INSULATION, SUITABLE FOR CONTINUOUS OPERATION AT 75 DEGREES C. CONDUCTOR TEMPERATURE IN BOTH WET AND DRY LOCATIONS. THESE CABLES SHALL BE N.E.C. INSULATION CLASSIFICATION TYPE THW/THHN. MINIMUM SIZE SHALL BE #12. ALL CONDUCTOR INSULATION SHALL BE COLOR CODED MAINTAINING THE INTEGRITY OF THE EXISTING INSTALLATION. COLOR CODED INSULATION SHALL BE USED FOR AWG SIZES #10 AND SMALLER AND APPROVED COLOR TAPES SHALL BE USED FOR AWG SIZES #8 AND LARGER. ALL POWER AND CONTROL CIRCUITS SHALL CARRY EQUIPMENT GROUNDING CONDUCTOR SIZED PER NEC 250-122.
19. THE NATURE OF THIS TYPE OF CONSTRUCTION POSES SPECIAL PROBLEMS FOR THE DESIGN ENGINEER AS WELL AS THE CONTRACTOR. EVERY EFFORT HAS BEEN MADE BY THE ENGINEER TO SHOW AND VERIFY WHERE POSSIBLE THE LOCATION OF THE EXISTING ELECTRICAL SYSTEM. THE MAJOR PORTION OF THE ELECTRICAL SYSTEMS ARE AS SHOWN ON THE DRAWINGS. HOWEVER, MINOR DEVIATIONS MAY BECOME EVIDENT AS THE JOB PROGRESSES. NO ADVANTAGE IS TO BE TAKEN BY THE CONTRACTOR BECAUSE OF THESE MINOR DIFFERENCES.
20. CORRECTION OF ANY DEFECTS, REPAIRS OR DAMAGE DURING CONSTRUCTION AS WELL AS ANY MINOR CHANGES IN OUTLET LOCATIONS SHALL BE MADE WITHOUT ADDITIONAL COST.
21. GUTTERS, PULL BOXES, ETC., SHALL BE GALVANIZED STEEL SIZED PER NATIONAL ELECTRICAL CODE, ARTICLE 312, 314 AND 376 MADE OF MATERIAL SUITABLE FOR THE ENVIRONMENTAL CONDITIONS PRESENT.
22. ALL FLOORS, WALLS AND ROOF PENETRATIONS SHALL BE PROPERLY SEALED-OFF. IF FIRE RATED, AN APPROVED FIRE RETARDANT SEAL SHALL BE USED.
23. ALL WIRING SHALL BE IN RACEWAY.
A. INDOORS - USE THE FOLLOWING WIRE METHODS:
 - EXPOSED: EMT
 - CONCEALED: EMT, NMC (SMURF)
 - CONNECTION TO VIBRATION EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR - DRIVEN EQUIPMENT): FMC, EXCEPT IN WET OR DAMP LOCATIONS USE LFMC.
 - DAMP OR WET LOCATIONS: RIGID STEEL CONDUIT
 - BOXES AND ENCLOSURES: NEMA 250, TYPE I, EXCEPT AS FOLLOWS:
- B. DAMP OR WET LOCATIONS: NEMA 250, TYPE 3R STEEL.
- C. DAMP OR WET LOCATIONS: 250, TYPE 4, NONMETALLIC.
- UNDERGROUND RNC (SINGLE RUN OR GROUPED).
- D. SEALING FITTINGS SHALL BE INSTALLED AT FOLLOWING POINTS, AND ELSEWHERE AS SHOWN.
 - WHERE REQUIRED BY THE NEC.
23. THESE DRAWINGS ARE A GUIDE FOR THE INSTALLATION OF THE RACEWAY SYSTEM AND EQUIPMENT. THEY ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN AND EXTENT OF THE WORK AND ARE PARTLY DIAGRAMMATIC. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND FUNCTIONAL INSTALLATION.
24. CIRCUIT NUMBERS ARE FOR IDENTIFICATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR CORRECTLY PHASING THE CIRCUITS IN THE PANEL AND SHALL BALANCE THE LOAD ON THE PHASES UNDER NORMAL OPERATING CONDITIONS. PROVIDE TYPE WRITTEN PANEL BOARD DIRECTORIES IN EXISTING PANEL BOARD DIRECTORIES. UPDATE ALL DIRECTORIES IN EXISTING PANEL BOARDS AFFECTED BY THIS PROJECT ELECTRONICALLY TRACING ALL CIRCUITS.
25. ANY DEVIATION FROM THESE DRAWINGS AND SPECIFICATIONS MUST BE AUTHORIZED IN WRITING FROM THE ENGINEERS OFFICE. THE CONTRACTOR SHOULD BE HELD LIABLE FOR ANY DEVIATIONS WITHOUT SUCH AUTHORIZATION.
26. ALL POWER AND LIGHTING CIRCUITS SHALL HAVE A GREEN EQUIPMENT GROUNDING CONDUCTOR SIZED AS PER NEC 250-122. NEUTRAL CONDUCTOR SHALL BE 10 AWG (MINIMUM CU-THW) IN ALL MULTI-CIRCUIT BRANCH CIRCUITS.
27. PROVIDE NYLON PULL STRINGS IN ALL EMPTY CONDUITS FOR FUTURE USE.
28. COLOR CODING FOR CONDUCTORS: *
A. WIRING FOR 120/208 VOLT SYSTEM SHALL BE CODED AS FOLLOWS:
PHASE A - BLACK
PHASE B - RED
PHASE C - BLUE
NEUTRAL - WHITE
GROUND - GREEN
B. WIRING FOR 120/240 VOLT SYSTEM SHALL BE AS FOLLOWS:
PHASE A - BLACK
PHASE B - (HIGH LEG) - ORANGE
PHASE C - RED
NEUTRAL - WHITE
GROUND - GREEN
C. COLORS ON CONDUCTOR 6 AWG AND SMALLER SHALL BE AN INTEGRAL PART OF INSULATION. ON CONDUCTOR 4 AWG AND LARGER CONDUCTORS, EITHER COLOR CODING TAPE OR PAINTED WITH TWO COATS OF CORRECT COLOR PAINT AT ALL TERMINALS AND CONNECTION POINTS.
 - * UNLESS OTHERWISE REQUIRED BY APPLICABLE CODE.
29. ANY WORK NOT SHOWN OR SPECIFICALLY MENTIONED ON THESE PLANS BUT CONSIDERED NECESSARY FOR COMPLETION OF WORK IN THE PROPER MANNER SHALL BE PROVIDED BY THE CONTRACTOR WITHOUT ADDITIONAL CHARGE.
30. CONTRACTOR SHALL VERIFY SPACE CONDITIONS AND DIMENSIONS AT JOB SITE PRIOR TO FABRICATION OF THE ELECTRICALS AND EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE HIS WORK WITH THE ARCHITECT BEFORE ROUGH INSTALLATION OF ALL OUTLETS (LIGHTS, RECEPTACLES, SWITCHES, PULL BOXES, ETC.) FOR EXACT LOCATION.
31. ALL ELECTRICAL EQUIPMENT SUCH AS PANELS, PULL-UP BOXES, FEEDERS, ETC., SHALL BE PROPERLY IDENTIFIED WITH A PERMANENT LABEL AFFIXED TO THE EQUIPMENT. IDENTIFY CIRCUIT IN PANELS BY MEANS OF A TYPED, PLASTIC COVERED DIRECTORY.
32. SPOT PAINT CONDUITS AND BOXES. IDENTIFY CONDUITS WITHIN 6 INCHES (6") OF BOX OR ENCLOSURE. USE ONLY COLOR CODE IN COMPLIANCE WITH USER REQUIREMENTS UPON COMPLETION.
33. ALL SERVICE INTERRUPTIONS AND ALL REMOVAL AND DISPOSAL WORK SHALL BE SCHEDULED AND COORDINATED WITH THE AUTHORIZED REPRESENTATIVE OF THE OWNER.
34. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, TAXES, INSPECTIONS, TESTS AND OTHER ITEMS AS REQUIRED INSURANCE FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
35. CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF PRINTS FOR INDICATING ALL CHANGES AS THE CONTRACTOR PROGRESSES. AT THE COMPLETION OF THE WORK, THE CONTRACTOR SHALL DELIVER A SET OF AS-BUILT DRAWINGS TO THE OWNER IN REPRODUCIBLE MATERIAL. CONTRACTOR SHALL STAMP AS-BUILT ON THE PLANS (EACH SHEET), PRINT, DATE, AND SIGN WITH INK.
36. CONTRACTOR IS RESPONSIBLE FOR REPLACING ALL PARTITION, FLOOR CEILING, CONDUIT PENETRATIONS, AND ANY OTHER EXISTING CONDITION AFFECTED BY THIS PROJECT. UPON COMPLETION, RE-PAINT ALL AFFECTED SURFACES MATCHING SURROUNDING COLOR.
37. TELECOM RACEWAYS, EMPTY BOXES AND PULL STRINGS TO BE INSTALLED BY ELECTRICAL CONTRACTOR. WIRING AND WIRING DEVICES AND FINAL CONNECTION IS TO BE BY OWNER.
38. NO MULTIWIRE CIRCUIT ALLOWED EACH CIRCUIT MUST HAVE ITS SEPARATE NEUTRAL CONDUCTOR.
39. ELECTRICAL EQUIPMENT TO BE PROVIDED WITH A WARNING LABEL FOR ARC FLASH HAZARDS IN COMPLIANCE WITH NEC 110.16.
40. PROJECT TO COMPLY WITH THE REQUIREMENT OF CURRENT EDITION OF NFPA 241 STANDARDS FOR SAFE GUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS.
41. CONTRACTOR SHALL MAINTAIN THE FUNCTIONING AND INTEGRITY OF THE FACILITY FIRE ALARM SYSTEM DURING ALL PHASES OF CONSTRUCTION.
42. ALL LAMPS SPECIFIED AND PURCHASED PER BUILDING NOT TO EXCEED AN OVERAGE OVERALL MERCURY-CONTENT OF 90 PICOGRAMS OF MERCURY PER LUMEN-HOUR. CONTRACTOR TO SUBMIT LAMP DATA SHEETS TO LEED CONSULTANT SHOWING COMPLIANCE PRIOR TO PURCHASE AND INSTALLATION, AND SHALL TRACK MERCURY CONTENT OF ALL LAMP TYPES.
43. ALL ELECTRICAL EQUIPMENT, FIXTURE, CAMERAS, DEVICES AND CABLES / WIRING SHALL BEAR (NRTL) THIRD PARTY APPROVALS AND BE LISTED FOR ENVIRONMENT IN WHICH THEY ARE INSTALLED (NEC 90.7, 110.3 (A) (B) AND 410.6)
44. ELECTRICAL CONTRACTOR TO COORDINATE WITH THE MECHANICAL CONTRACTOR THE LOCATION OF EACH FIRE/SMOKE AND/OR MOTORIZED DAMPER, PROVIDE A LOCAL SWITCH TO EACH DAMPER FED BY AN EMERGENCY POWER 120V, 20AMP CIRCUIT RESERVED FOR THIS USE IN CORRESPONDING PANEL.
45. FLUORESCENT LIGHTING FIXTURES THAT UTILIZE DOUBLE ENDED LAMPS AND CONTAIN BALLAST(S) SHALL BE PROVIDED WITH A DISCONNECTING MEANS AS PER NEC. 410.130G(1)
46. COMMERCIAL LIGHTING SHALL COMPLY WITH F.B.C. C.E.405 (ENERGY CODE)
47. COMMERCIAL EGRESS ILLUMINATION REQUIRES A MINIMUM 1 FOOT CANDLE PER F.B.C.1008.
48. PARKING LOT ILLUMINATION UNDER THIS CONTRACT SHALL BE IN COMPLIANCE WITH CHAPTER 8C-3 OF THE MIAMI-DADE COUNTRY MUNICIPAL CODE.
49. SITE LIGHTING SHALL BE REQUIRED TO BE CONTROLLED IN ACCORDANCE WITH F.B.C. E.C.405-2.4.
51. INSIDE AND OUTSIDE STAIRS IN RESIDENTIAL BUILDINGS SHALL MEET 1 FOOT CANDLE MINIMUM PER FBC 330.6.

LEED NOTES:

1. THIS PROJECT IS PURSUING LEED NC V4 CERTIFICATION. ALL CONTRACTORS WITH SCOPE CONTRIBUTING TOWARDS THE LEED REQUIREMENTS SHALL BE RESPONSIBLE FOR DOCUMENTING AND EXECUTING ALL ACTIVITIES AS DIRECTED BY SECTION 01113 SUSTAINABLE DESIGN REQUIREMENTS OF THE SPECIFICATION BOOK FOR FURTHER INFORMATION.
2. AN INDEPENDENT COMMISSIONING AGENT HAS BEEN RETAINED TO ENSURE THAT THIS PROJECT IS COMPLETED ACCORDING TO OWNER REQUIREMENTS. COMMISSIONED SYSTEMS SHALL INCLUDE HVAC, LIGHTING/LIGHTING CONTROL, AND DOMESTIC HOT WATER. ALL CONTRACTORS WITH SCOPE FOR THESE SYSTEMS SHALL BE RESPONSIBLE FOR CARRYING OUT TESTING ACTIVITIES AS DIRECTED BY COMMISSIONING AGENT. SEE THE PROJECT COMMISSIONING PLAN FOR FURTHER INFORMATION. ALL CONTRACTORS WITH SCOPE CONTRIBUTING TOWARDS THE COMMISSIONING REQUIREMENTS SHALL BE RESPONSIBLE FOR DOCUMENTING AND EXECUTING ALL ACTIVITIES AS DIRECTED BY SECTION 01113 GENERAL COMMISSIONING REQUIREMENTS OF THE SPECIFICATION BOOK FOR FURTHER INFORMATION.

TITLE: General Notes & Symbol Legend- Electrical

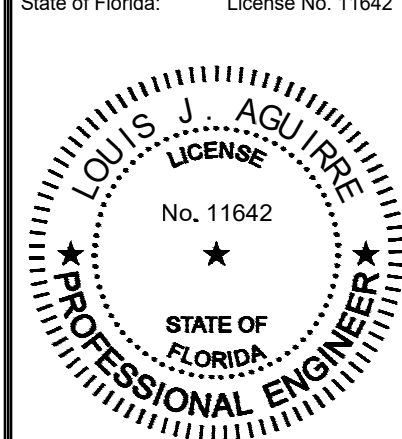


ELM ARCH

8950 SW 74TH Court
Suite 1204
Miami, FL 33156
786-391-2646

Qualifier: Erik Lloyd Myers
State of Florida: AR 93574

Sign & Seal: Louis J. Aguirre P.E.
State of Florida: License No. 11642



OWNER:

Miami Lakes Branch Library

6689 Windmill Gate Road
Miami Lakes, FL 33014

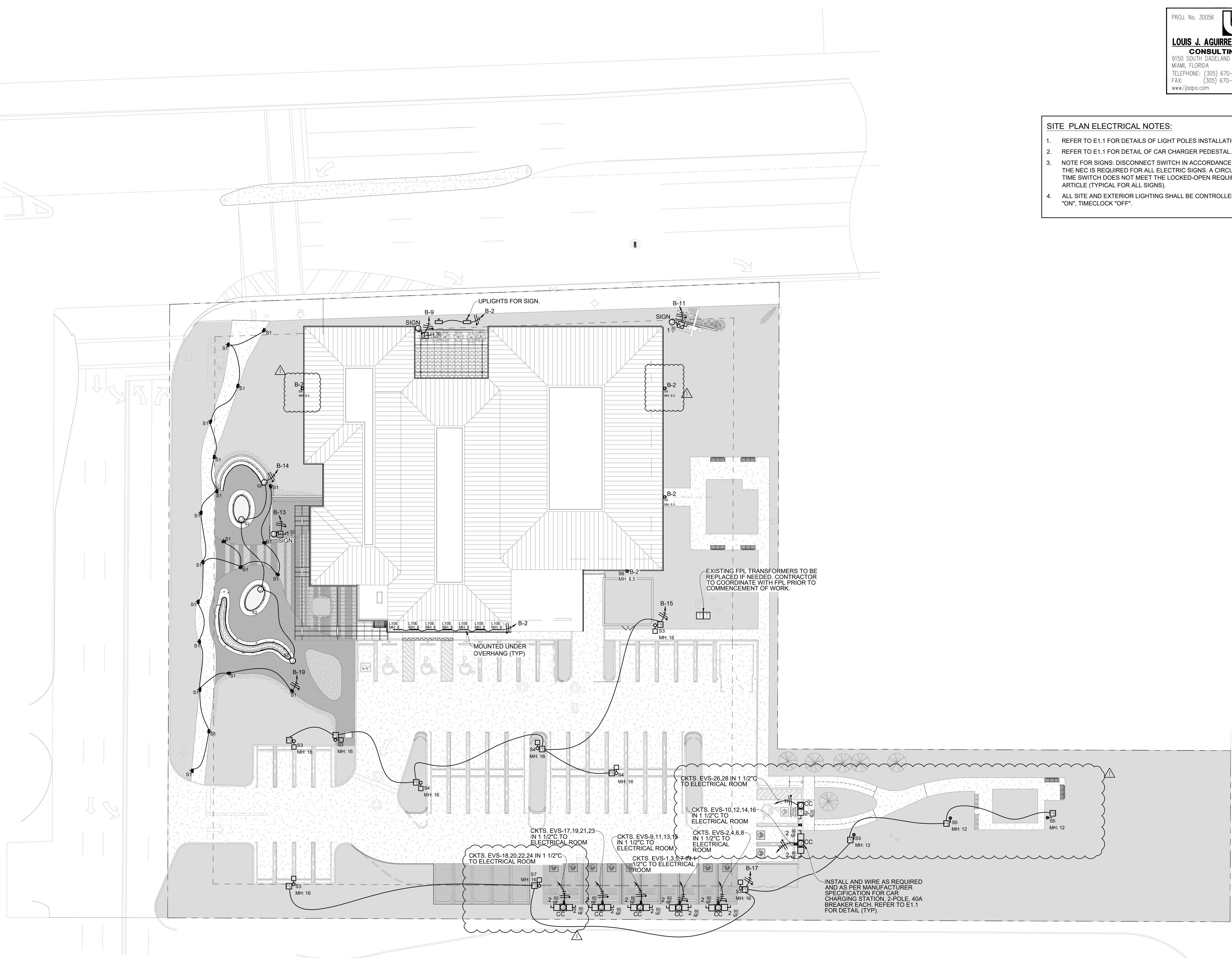
TITLE: Site Plan - Electrical

REVISION
OWNER CHANGES 08/28/23

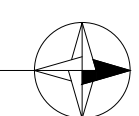
DATE
04-03-2023
PROJECT NUMBER
19119
SHEET NUMBER

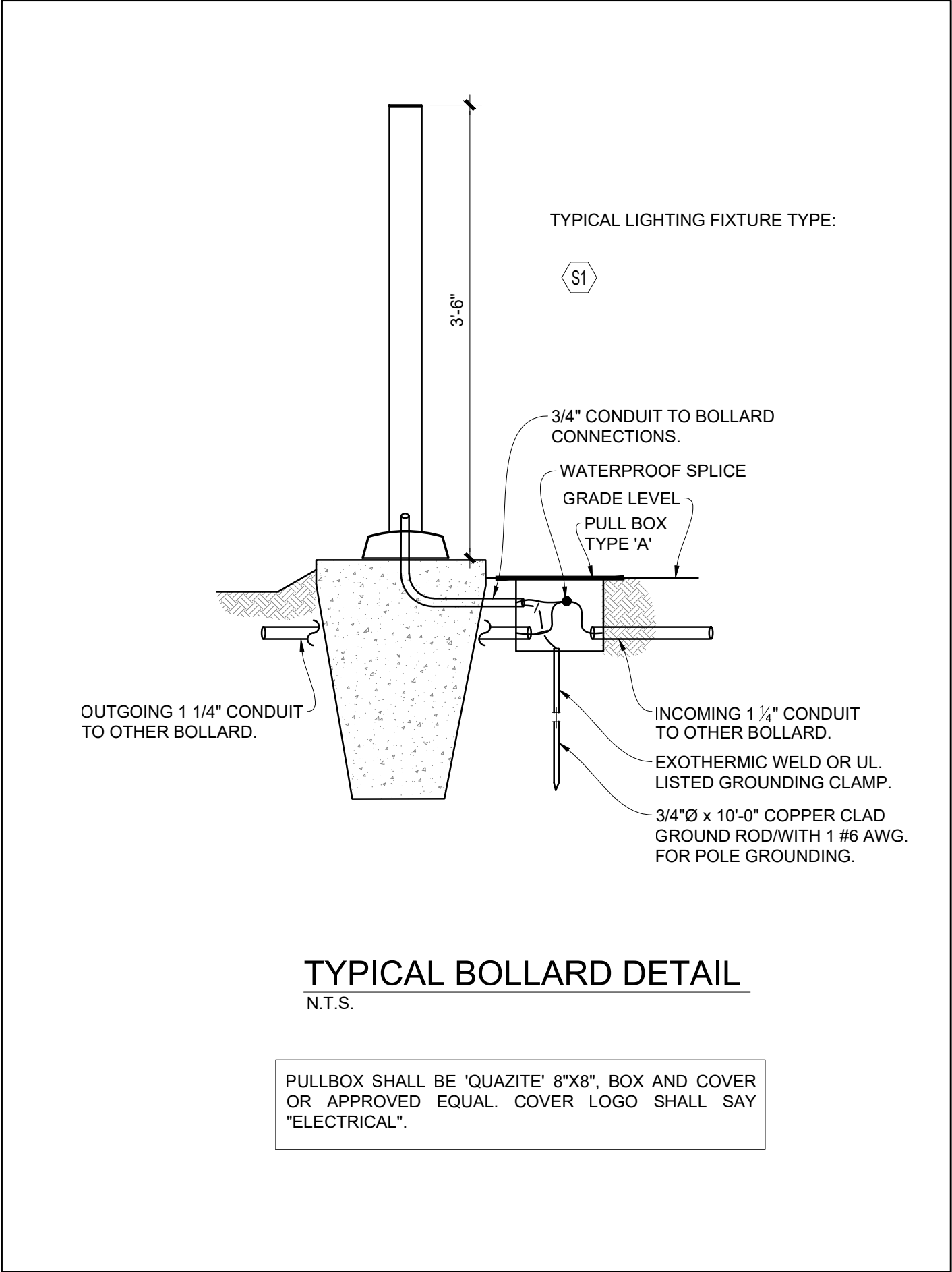
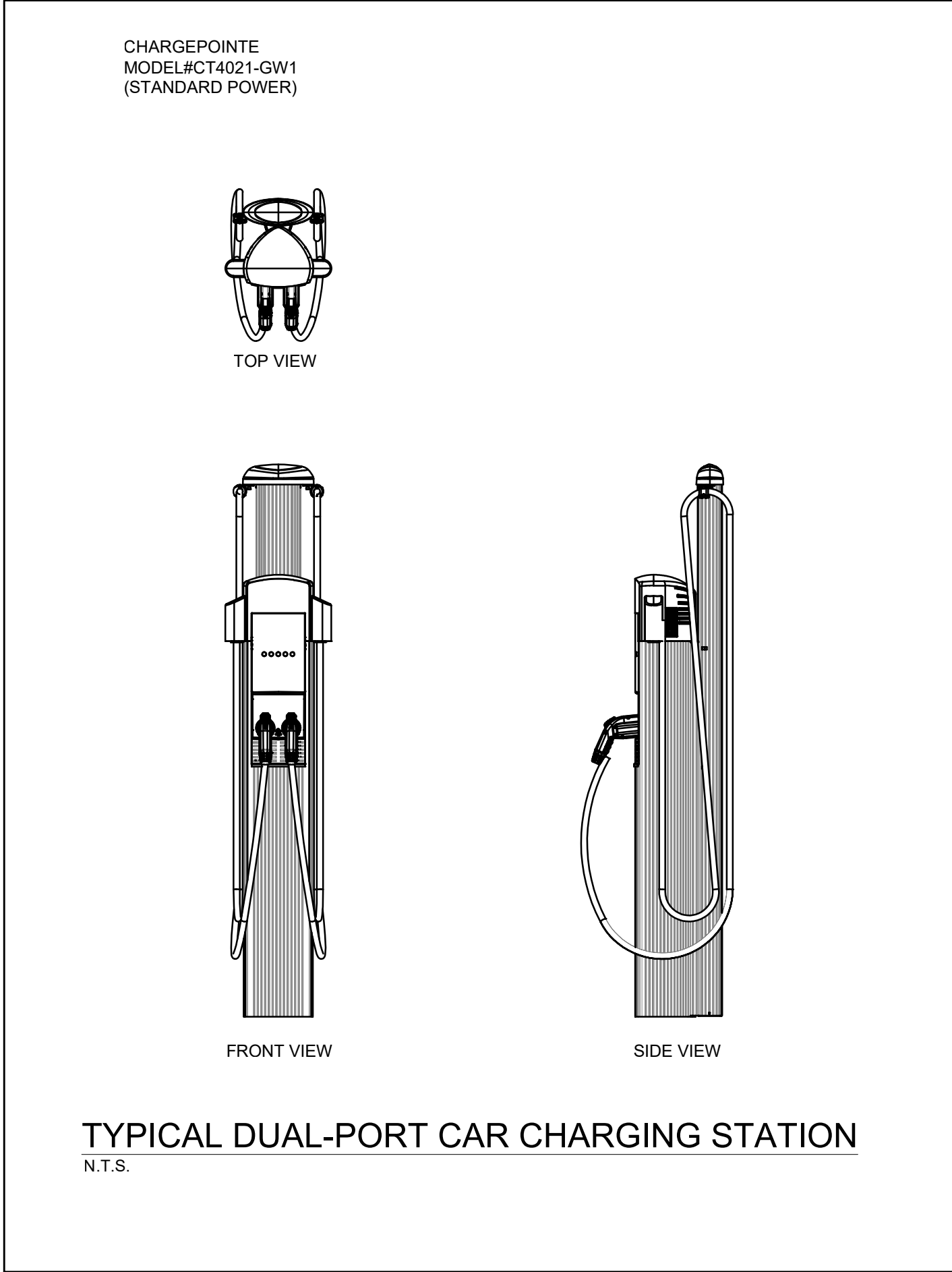
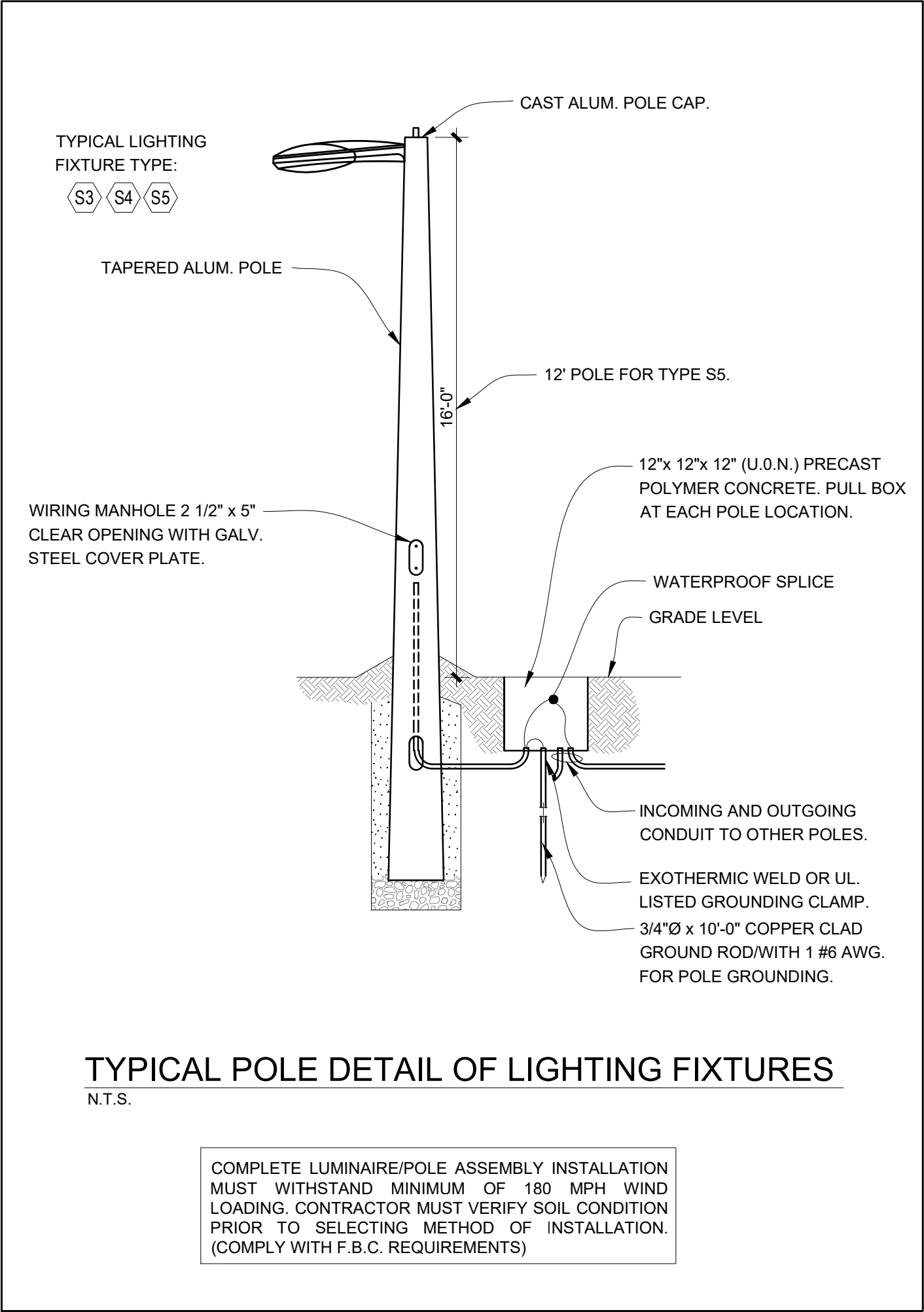
E1.0
OF

- SITE PLAN ELECTRICAL NOTES:**
- REFER TO E1.1 FOR DETAILS OF LIGHT POLES INSTALLATION.
 - REFER TO E1.1 FOR DETAIL OF CAR CHARGER PEDESTAL.
 - NOTE FOR SIGNS: DISCONNECT SWITCH IN ACCORDANCE WITH ART 600.2 OF THE NEC IS REQUIRED FOR ALL ELECTRIC SIGNS. A CIRCUIT LOCK DOG OR TIME SWITCH DOES NOT MEET THE LOCKED-OPEN REQUIREMENTS OF THIS ARTICLE (TYPICAL FOR ALL SIGNS).
 - ALL SITE AND EXTERIOR LIGHTING SHALL BE CONTROLLED BY PHOTOCELL "ON", TIMECLOCK "OFF".



1 Site Plan - Electrical
E1.0 Scale: 1" = 20'-0"





LIGHTING FIXTURE SCHEDULE											
TYPE	PHOTO/INK	DESCRIPTION	MFR	CATALOG NUMBER	VOLTS	COLOR TEMP	INPUT WATTS	FINISH	DIMMING	MOUNTING	NOTES
L1-A		2' X 8' RECTANGLE STENCIL SOFTZONE PENDANT FORMS W ACOUSTIC INSERT	AXIS	STSZ-D508-400-8K4-8K2-AL-4-90-40-W-UNV-MD-1-CAL36-RC-B-C-RE44-COLOR-1	120-277	4000K	32.2	WHITE METAL WITH COLOR ACOUSTICS	0-10V	PENDANT	LENGTHS PER PLANS
L1-B		4' X 4' RECTANGLE STENCIL SOFTZONE PENDANT FORMS W ACOUSTIC INSERT	AXIS	STSZ-D504-400-8K4-8K2-AL-4-90-40-W-UNV-MD-1-CAL36-RC-B-C-RE44-COLOR-1	120-277	4000K	16.1	WHITE METAL WITH COLOR ACOUSTICS	0-10V	PENDANT	LENGTHS PER PLANS
L1-C		2' X 4' RECTANGLE STENCIL SOFTZONE PENDANT FORMS W ACOUSTIC INSERT	AXIS	STSZ-D504-400-8K4-8K2-AL-4-90-40-W-UNV-MD-1-CAL36-RC-B-C-RE44-COLOR-1	120-277	4000K	16.1	WHITE METAL WITH COLOR ACOUSTICS	0-10V	PENDANT	LENGTHS PER PLANS
L1-D		3' X 3' RECTANGLE STENCIL SOFTZONE PENDANT FORMS W ACOUSTIC INSERT (NO LIGHT)	AXIS	STSZ-8K3-8K3-8K3-8K3-AL-4-90-40-W-UNV-MD-1-CAL36-RC-B-C-RE44-COLOR-1	120-277	N/A	N/A	WHITE METAL WITH COLOR ACOUSTICS	0-10V	PENDANT	
L1-F		2' X 4' RECTANGLE STENCIL SOFTZONE PENDANT FORMS W ACOUSTIC INSERT (NO LIGHT)	AXIS	STSZ-8K4-8K4-8K2-8K2-AL-4-90-40-W-UNV-MD-1-CAL36-RC-B-C-RE44-COLOR-1	120-277	N/A	N/A	WHITE METAL WITH COLOR ACOUSTICS	0-10V	PENDANT	
L2		3" ROUND NEW CONSTRUCTION DOWNLIGHT	HALO	HL36A10FL340ED010 TL3R25HWF	120-277	4000K	11	HAZE WITH WHITE FLANGE	0-10V	RECESSED	
L3		4" ROUND NEW CONSTRUCTION DOWNLIGHT	HALO COMMERCIAL	HC415D010 HM412940 41WDHWF	120-277	4000K	14.2	HAZE WITH WHITE FLANGE	0-10V	RECESSED	
L3E		4" ROUND NEW CONSTRUCTION DOWNLIGHT W INTEGRAL BATTERY	HALO COMMERCIAL	HC415D010 IEM7 HM412940 41WDHWF	120-277	4000K	14.2	HAZE WITH WHITE FLANGE	0-10V	RECESSED	
L4		SCULPT SOFTZONE PENDANT W BATWING DISTRIBUTION	AXIS	SCDISZ-500-500-90-40-BW-FL-8-H12-W-COT-UNV-DP-2-C-A48-B(I)	120-277	4000K	39	WHITE WITH COTTON ACOUSTIC MATERIAL	(2) 0-10V	PENDANT	LENGTHS PER PLANS
L4E		SCULPT SOFTZONE PENDANT W BATWING DISTRIBUTION W INTEGRAL BATTERY	AXIS	SCDISZ-500-500-90-40-BW-FL-8-H12-W-COT-UNV-DP-2-C-A48-B(I)	120-277	4000K	39	WHITE WITH COTTON ACOUSTIC MATERIAL	(2) 0-10V	PENDANT	LENGTHS PER PLANS
L5		RECTANGULAR SKETCH PENDANT	AXIS	SKPE-#-S6040-REC-AL(I)-1000-90-34-SO-W-UNV-DP-1-C-A48-SEE PLANS	120-277	4000K	10.4 PER FOOT	WHITE	0-10V	PENDANT	
L6		7 1/2" DIAMETER ROUND SKETCH PENDANT	AXIS	SKPE-1008-S6040-REC-AL(I)-1000-90-34-SO-W-UNV-DP-1-C-A48	120-277	4000K	10.4 PER FOOT	WHITE	0-10V	PENDANT	
L7		SCULPT RECESSED	AXIS	SCR-500-90-40-FL-S(I)-W-UNV-DP1-XXX	120-277	4000K	5.25W PER FOOT	WHITE	0-10V	RECESSED FOR ACT CEILINGS	LENGTHS PER PLANS
L7E		SCULPT RECESSED W INTEGRAL BATTERY	AXIS	SCR-500-90-40-FL-S(I)-W-UNV-DP1-XXX-B(I)	120-277	4000K	5.25W PER FOOT	WHITE	0-10V	RECESSED FOR ACT CEILINGS	LENGTHS PER PLANS
L8		4" ROUND SKETCH PENDANT	AXIS	SKPE-1004-S6040-REC-AL(I)-1000-90-34-SO-W-UNV-DP-1-C-A48	120-277	4000K	10.4 PER FOOT	WHITE	0-10V	PENDANT	
L9		SCULPT RECESSED	AXIS	SCR-500-90-40-FL-S(I)-W-UNV-DP1-DF	120-277	4000K	5.25W PER FOOT	WHITE	0-10V	RECESSED FOR DRYWALL CEILINGS	
L9E		SCULPT RECESSED W INTEGRAL BATTERY	AXIS	SCR-500-90-40-FL-S(I)-W-UNV-DP1-DF-B(I)	120-277	4000K	5.25W PER FOOT	WHITE	0-10V	RECESSED FOR DRYWALL CEILINGS	
L10		BEAM 4 WET LOCATION LINEAR LED	AXIS	WBSLED-500-90-S-4-W-UNV-DP1SC-XX	120-277	4000K	6	BLACK	0-10V	SURFACE	LENGTHS PER PLANS
L10E		BEAM 4 WET LOCATION LINEAR LED W INTEGRAL BATTERY	AXIS	WBSLED-500-90-S-4-W-UNV-DP1SC-B1-XX	120-277	4000K	6	BLACK	0-10V	SURFACE	LENGTHS PER PLANS
L11		2X2 FLAT PANEL	METALUX	22RLN-1-D5-44-UNV-1-940-A3B-4/18GDM-CD1-U	120-277	4000K	39.6	WHITE	0-10V	RECESSED	
L11E		2X2 FLAT PANEL W INTEGRAL BATTERY	METALUX	22RLN-1-D5-44-UNV-EL1-94W-EL14W-A3B-4/18GDM-CD1-U	120-277	4000K	39.6	WHITE	0-10V	RECESSED	
L12		1X4 LINEAR LED WRAP	METALUX	4CWPLD4040C	120-277	4000K	43	WHITE	0-10V	SURFACE	
L12E		1X4 LINEAR LED WRAP ON INVERTER	METALUX	4CWPLD4040C	120-277	4000K	43	WHITE	0-10V	SURFACE	
L13		UNIVERSAL EDGE LIT EXIT SIGN	ISOLITE	UEL-EM-G-1C2M-MTEBR	120-277	RED LED	3	SATIN ALUMINUM	N/A	UNIVERSAL	
L14		EMERGENCY LED	SURE LITES	SEL60R10SD	UNV	N/A	3.8	WHITE	N/A	SURFACE	
S1		42" LED BOLLARD	LUMIERE	303-B1-LEDB1-4000-UNV-T5X-DIMELV-XX-42	120-277	4000k	8.5	TBD	N/A	SURFACE	
S2		KURBA HORIZONTAL RGBW	LUMINII	KBM-F-H-RGBW-XXX-IEC-XX	120-277	RGBW 4000K	4.57 PER FOOT	WHITE	N/A	SURFACE	LENGTHS PER PLANS
S3		GALLEON AREA LIGHT WITH TYPE IV OPTICS	MCGRAW EDISON	GLEON-SA4B-740-U-SL4-QM-XX-HSS	120-277	4000K	171	TBD	N/A	16" ROUND DIRECT BURIAL TAPERED ALUMINUM POLE	BUG RATING: B3-U0-G5
S4		GALLEON AREA LIGHT WITH TYPE V OPTICS	MCGRAW EDISON	GLEON-SA4B-740-U-SWQ-QM-XX	120-277	4000K	171	TBD	N/A	16" ROUND DIRECT BURIAL TAPERED ALUMINUM POLE	BUG RATING: B5-U0-G4
S5		TOP TIER SITE	MCGRAW EDISON	TT-C3-LED-E1-SWQ-PM-NW	120-277	4000K	45	TBD	N/A	12" ROUND DIRECT BURIAL TAPERED ALUMINUM POLE	BUG RATING: B3-U0-G2
S6		GALLEON WALL COMPANION WALL PACK	MCGRAW EDISON	GW-C-SA1C-740-U-T2-XX	120-277	4000K	59	TBD	N/A	WALL	BUG RATING: B1-U0-G2
S7		GALLEON WALL COMPANION WALL PACK	MCGRAW EDISON	GLEON-SA4B-740-U-SL3-QM-XX-HSS	120-277	4000K	171	TBD	N/A	16" ROUND DIRECT BURIAL TAPERED ALUMINUM POLE	BUG RATING: B1-U0-G2
LIGHTING SCHEDULE NOTES:											
1. CONTACT FOR QUESTIONS PERTAINING TO THIS FIXTURE SCHEDULE PLEASE CONTACT GUS MACIAS @ LIGHTINGDYNAMICS 305-345-7571 OR GMACIAS@LIGHTINGDYNAMICS.COM											
2. SPECIFIC LIGHTING FIXTURES, SELECTED BY TYPE, PHOTOMETRIC PERFORMANCE, LIGHTING PATTERN, AND LUMEN OUTPUT, WERE USED IN THE ILLUMINATION DESIGN TO PRODUCE THE REQUIRED EFFECT AND ILLUMINATION. SUBSTITUTION OF THE LIGHT FIXTURES WILL RESULT IN DIFFERENT											
3. THE ABOVE FIXTURE SCHEDULE IS PREDICATED ON PERFORMANCE, SIZE LIMITATIONS, AND IS DESIGNED TO MEET CERTAIN AESTHETIC CRITERIA. ANY ALTERNATIVE SELECTIONS MUST SUBMIT THE FOLLOWING TO THE ARCHITECT FOR APPROVAL FIFTEEN (15) DAYS PRIOR TO BID DATE....											
3. IF THERE IS A DISCREPENCY BETWEEN A FIXTURE DESCRIPTION AND GENERAL NOTES, AND THE CATALOG NUMBER LISTED, THE FIXTURE DESCRIPTION AND GENERAL NOTES SHALL DICTATE.											
4. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ACTUAL CEILING CONSTRUCTION TYPE AS DEFINED ON THE ARCHITECTURAL DRAWINGS AND FURNISH ALL LUMINAIRES WITH THE CORRECT MOUNTING DEVICES WHETHER OR NOT SUCH VARIATIONS ARE INDICATED IN THE LUMINAIRE CATALOG											
5. ALL LUMINAIRES SHALL BEAR THE UL LISTING NUMBERS FROM A NATIONALLY RECOGNIZED TESTING LABORATORY											

PROJ. No. 30056

CA 924

LOUIS J. AGUIRRE & ASSOCIATES P.A.

CONSULTING ENGINEERS

9150 SOUTH DADELAND BLVD. SUITE 900

MIAMI, FLORIDA 33156

TELEPHONE: (305) 670-0141

FAX: (305) 670-0144

www.ljappa.com

ELM ARCH

8950 SW 74TH Court

Suite 1204

Miami, FL 33156

786-391-2646

Qualifier: Erik Lloyd Myers

State of Florida: AR 93574

Sign & Seal: Louis J. Aguirre P.E.

State of Florida: License No. 11642

OWNER:

Miami Lakes Branch Library

6699 Windmill Gate Road

Miami Lakes, FL 33014

TITLE: Lighting Fixture Schedule and Details

REVISION

OWNER CHANGES 08/28/23

DATE

04-03-2023

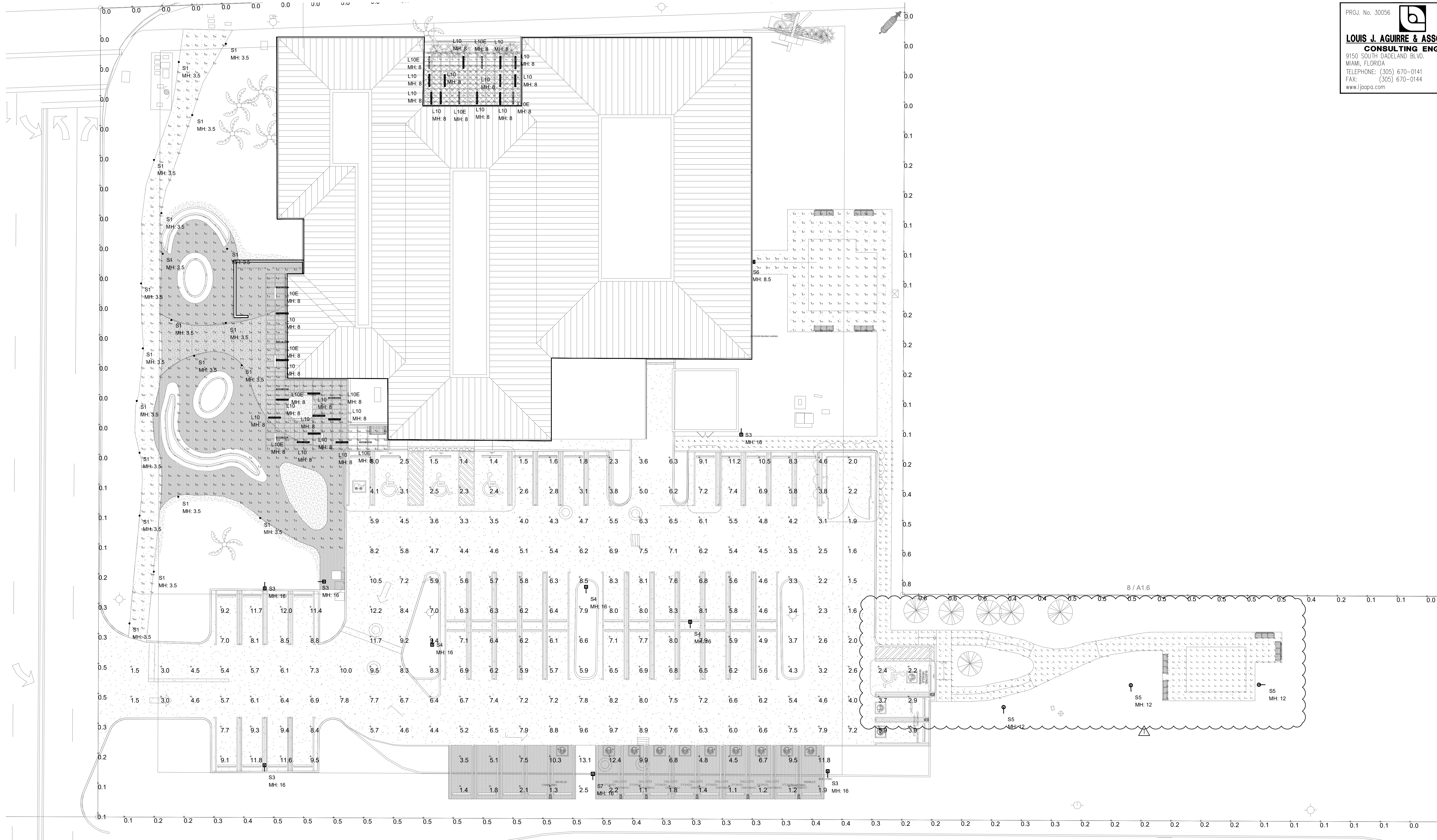
PROJECT NUMBER

19119

SHEET NUMBER

E1.1

OF



Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
OUTDOOR READING GARDEN	Illuminance	Fc	3.83	25.4	0.3	12.77	84.67
OUTDOOR READING PARK	Illuminance	Fc	2.49	13.3	0.2	12.45	66.50
OUTDOOR TERRACE	Illuminance	Fc	25.35	34.8	12.4	2.04	2.81
PARKING LOT	Illuminance	Fc	5.86	13.1	1.1	5.33	11.91
PROPERTY LINE	Illuminance	Fc	0.20	0.8	0.0	N.A.	N.A.
WINDMILL GATE RD WALKWAY	Illuminance	Fc	5.72	31.1	0.0	N.A.	N.A.

Photometrics Calculation Software Generated Luminaire Schedule

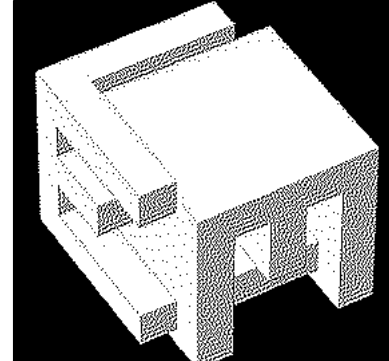
Symbol	Qty	Label	Arrangement	Lum. Lumens	Arr. Lum. Lumens	LLF	Lum. Watts	Arr. Watts
	21	L10	Single	2000	2000	0.900	22.18	22.18
	10	L10E	Single	2000	2000	0.900	22.18	22.18
	20	S1	SINGLE	625	625	0.900	8.4	8.4
	5	S3	SINGLE	18709	18709	0.900	171	171
	3	S4	SINGLE	24281	24281	0.900	171	171
	3	S5	SINGLE	5782	5782	0.900	45	45
	1	S6	Single	16290	16290	0.900	129	129
	1	S7	Single	19694	19694	0.900	171	171

PROJ. No. 30056



CA 924

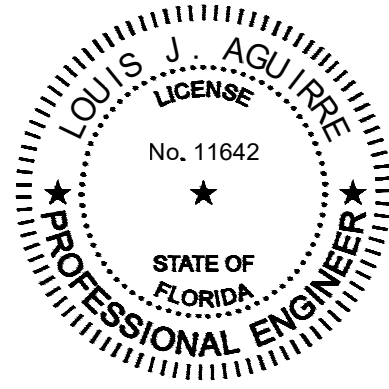
LOUIS J. AGUIRRE & ASSOCIATES P.A.
CONSULTING ENGINEERS
9150 SOUTH DADELAND BLVD. SUITE 900
MIAMI, FLORIDA 33156
TELEPHONE: (305) 670-0141
FAX: (305) 670-0144
www.ljagpa.com



ELM ARCH
8950 SW 74TH Court
Suite 1204
Miami, FL 33156
786-391-2646

Qualifier: Erik Lloyd Myers
State of Florida: AR 93574

Sign & Seal: Louis J. Aguirre P.E.
State of Florida: License No. 11642



OWNER:

Miami Lakes Branch Library

6699 Windmill Gate Road
Miami Lakes, FL 33014

TITLE: Site Photometrics-Lighting

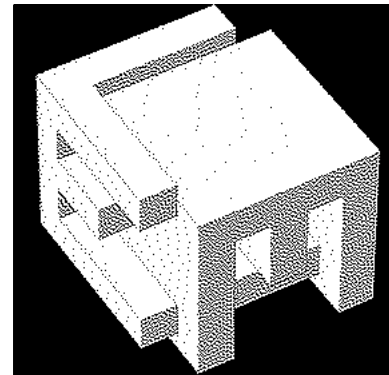
REVISION
OWNER CHANGES 08/28/23

DATE
04-03-2023
PROJECT NUMBER
19119

SHEET NUMBER

E1.2

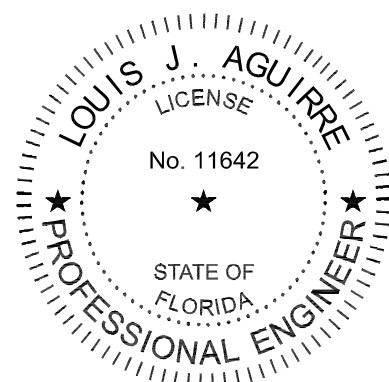
OF



8950 SW 74TH Court
Suite 1204
Miami, FL 33156
786-391-2646

Qualifier:
State of Florida: Erik Lloyd Myers
AR 93574

Sign & Seal:
State of Florida: Louis J. Aguirre P.E.
License No. 11642



OWNER:

NOTES FOR LIGHTING:

- FOR EXACT LOCATION OF LIGHT FIXTURES, REFER TO ARCHITECTURAL REFLECTED CEILING PLAN.
- CONTRACTOR SHALL COORDINATE LIGHTING FIXTURE INSTALLATION WITH CEILING CONSTRUCTION.
- ALL LIGHT FIXTURES SHALL BE PROVIDED WITH U.L. LABEL INDICATING FIXTURE IS SUITABLE FOR LOCATION USED.
- EGRESS PATHWAYS ILLUMINATION COMPLIES WITH MINIMUM OF 1.0 FOOT-CANDLE FOR COMMERCIAL EGRESS ILLUMINATION AS REQUIRED BY FLORIDA BUILDING CODE SECTION 1008.
- COMMERCIAL LIGHTING CONTROLS SHALL COMPLY FLORIDA BUILDING CODE SECTION 505
- ALL LIGHT FIXTURES AND LAMPS INSTALLED AND FURNISHED BY CONTRACTOR SHALL COMPLY WITH FLORIDA BUILDING CODE SECTION 404. A MINIMUM OF 90 PERCENT OF THE TOTAL HARD-WIRED LIGHTING FIXTURES, OR THE BULBS SHALL BE HIGH EFFICIENCY LIGHTING.
- FOR LIGHTING FIXTURES, TYPE AND DESCRIPTION, REFER TO LIGHTING FIXTURE SCHEDULE.
- LIGHTING LAYOUT IN AREAS NOT SHOWN ARE EXISTING AND TO REMAIN.
- ALL POWER PACKS/DEVICES FOR LIGHTING CONTROLS MUST BE INSTALLED IN ACCESSIBLE SPACE.

LIGHTING PLAN ELECTRICAL NOTES:

- OCCUPANCY SENSORS:
 - SET TO 30 MINUTES TO TURN OFF ALL THE LIGHTING FIXTURES IN THE ROOM UPON VACANCY.
 - ADJUST FOR PROPER OPERATION BEFORE COMPLETION.
 - FINISH COLOR TO BE COORDINATED WITH ARCHITECT.
- BATTERY PACKS OF EXIT SIGNS AND EMERGENCY FIXTURES SHALL BE CONNECTED AHEAD OF ANY SWITCH.
- FINISH COLOR OF ALL WIRING DEVICES TO BE COORDINATED WITH ARCHITECT.
- NO MULTIWIRE LIGHTING CIRCUIT ALLOWED EACH CIRCUIT MUST HAVE ITS SEPARATE NEUTRAL CONDUCTOR.
- ALL INDIVIDUAL ROOMS, MULTI-PURPOSE, AND OPEN AREAS SHALL HAVE OVERRIDE MANUAL SWITCHES FOR EXTRA LIGHTING CONTROL.

GENERAL NOTES:

- PROVIDE NECESSARY RELAY/POWER PACK TO CONTROL FIXTURES WITH EMERGENCY BATTERY PACKS. (TYP.)
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING / XRAYING AND COORDINATING LOCATIONS OF ALL SLAB PENETRATIONS PRIOR TO WORK COMMENCING.
- ALL LIGHTING CONTROLS SHALL BE TIED INTO THE EXISTING LIBRARY BMS SYSTEM.(DELTA CONTROLS)

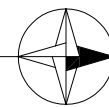
EMERGENCY PHOTOMETRIC NOTES:

- EGRESS ILLUMINATION COMPLIES WITH FBC 1008.
- OCCUPANCY SENSORS CONTROLLING LIGHTS WITHIN THE MEANS OF EGRESS SHALL COMPLY WITH REQUIREMENTS OF NFPA 101(2012) 7.8.1.2.2.1(1) THRU (5), UNLESS NOTED WITH NIGHT LIGHT DESIGNATION FOR 24/7 OPERATION.(TYP)

CONTROLS LEGEND

SYMBOL	(COOPER CONTROLS) MODEL/DESCRIPTION	SYMBOL	(COOPER CONTROLS) MODEL/DESCRIPTION
	TSE80-B 8" COLOR LCD TOUCHSCREEN		OAC-DT-1000-R 360 DEGREE 1000FT ² DT CEILING SENSOR
	LWP-SW-POE-8-8 LUMWATT PRO 8 PORT POE SWITCH		OAC-DT-2000-R 360 DEGREE 2000FT ² DT CEILING SENSOR
	NS3-C LUMEN DAYLIGHT SENSOR		SP20-RD4 120/277VAC SINGLE RELAY SWITCHPACK FOR LIGHTING LOADS
	CLS-4TSB-RL-W-IR CLS OVERRIDE SWITCH/ SCENE STATION		GMDS-W MOMENTARY SWITCH FOR OVERRIDING SENSOR
	CLS-2TLB-RL-W-IR CLS OVERRIDE SWITCH/ SCENE STATION		WBSD-010M-C1 0-10V SLIDE DIMMER WALLSTATION & MASTER OVERRIDE
	UIM (MINI IUG) INTERFACE MODULE		QNIW-D-1001-MY-W 120/277VAC SINGLE RELAY DT WALL SWITCH SENSOR
	PPS-S OUTDOOR CONTACT INPUT PHOTOSENSOR		TSW-MY-W DIGITAL WALL SWITCH TIMER

1 Floor Plan - Lighting - Electrical
E3.0 Scale: 1/8" = 1'-0"



Miami Lakes Branch Library

6699 Windmill Gate Road
Miami Lakes, FL 33014

TITLE: Floor Plan - Lighting - Electrical

REVISION

OWNER CHANGES 08/28/23

DATE

04-03-2023

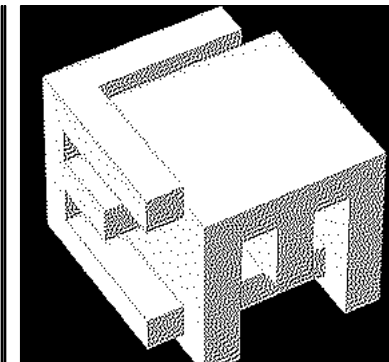
PROJECT NUMBER

19119

SHEET NUMBER

E3.0

OF

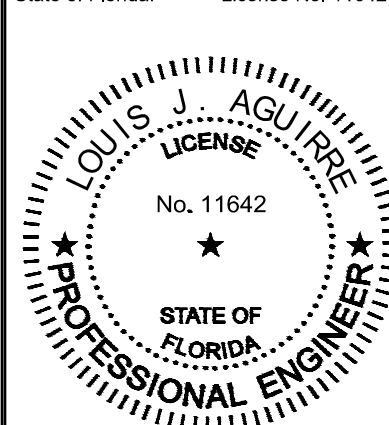


ELM ARCH

8950 SW 74TH Court
Suite 1204
Miami, FL 33156
786-391-2646

Qualifier: Erik Lloyd Myers
State of Florida: AR 93574

Sign & Seal: Louis J. Aguirre P.E.
State of Florida: License No. 11642



OWNER:

Miami Lakes Branch Library

6699 Windmill Gate Road
Miami Lakes, FL 33014

TITLE: Floor Plan - Power - Electrical

REVISION

OWNER CHANGES 08/28/23
COORDINATION 03/26/25

DATE

04-03-2023

PROJECT NUMBER

19119

SHEET NUMBER

E3.1

OF

NOTES FOR POWER:

- WHERE OUTLETS ARE SHOWN BELOW COUNTERTOP FOR EQUIPMENT, PROVIDE GROMMET IN COUNTERTOP FOR EQUIPMENT CORDS.
- ALL OUTLET INSTALLATION IN WALL BE DONE STAGGERED. NO BACK TO BACK OUTLET INSTALLATION IS TO BE ALLOWED.
- WIRING FOR COMPUTER DATA AND/OR TELEPHONE SYSTEMS, AND TRANSFORMER, INSTALLED IN CEILING SPACE SHALL BE CLASSIFIED BY UNDERWRITERS' LABORATORIES FOR PLENUM USE AND ITS INSTALLATION SHALL COMPLY WITH N.E.C. ART. 300.22.
- TELEPHONE AND COMPUTER DATA SYSTEMS WIRING TO BE INSTALLED BY OTHERS AT A FUTURE DATE.
- FOR EXACT LOCATION OF ALL MECHANICAL EQUIPMENT POWER & CONTROL WIRING AND ANY OTHER INSTALLATION DETAILS COORDINATE WITH ACTUAL MECHANICAL EQUIPMENT PURCHASED SHOP DRAWINGS PRIOR TO INSTALLATION.
- FOR EXACT LOCATION OF ALL MECHANICAL EQUIPMENT COORDINATE WITH THE MECHANICAL DRAWINGS.
- FOR EXACT LOCATION, TERMINATION AND MOUNTING HEIGHT OF ALL EQUIPMENT OUTLETS, REFER TO ARCHITECTURAL AND ID DRAWINGS.
- WHERE JUNCTION BOX IS SHOWN FOR EQUIPMENT CONNECTION, PROVIDE DIRECT CONNECTION OR MATING RECEPTACLE WHEN CORD & PLUG IS PROVIDED WITH EQUIPMENT.
- WHERE EQUIPMENT REQUIRES CORD CONNECTION AND CORD IS NOT PROVIDED BY EQUIPMENT, ELECTRICAL CONTRACTOR IS TO SUPPLY 3 OR 4 WIRE CORDS OF THE RATING OF THE BRANCH CIRCUIT CONDUCTORS.
- ALL ATTACHMENT CORDS, PLUGS AND RECEPTACLES SHALL BE FEMA APPROVED TYPE.
- ALL RECEPTACLES, LOCATED WITHIN 6'-0" OF WET AREA SHALL BE G.F.I. TYPE RECEPTACLES OR PROTECTED BY G.F.C.I. TYPE CIRCUIT BREAKERS.
- RECEPTACLES WITH-IN PUBLIC AREAS SHALL BE LISTED TAMPER RESISTANT AS PER NEC 406.12.
- ALL EXTERIOR RECEPTACLES SHALL HAVE A LOCKABLE ENCLOSURE.

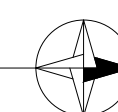
GENERAL NOTES:

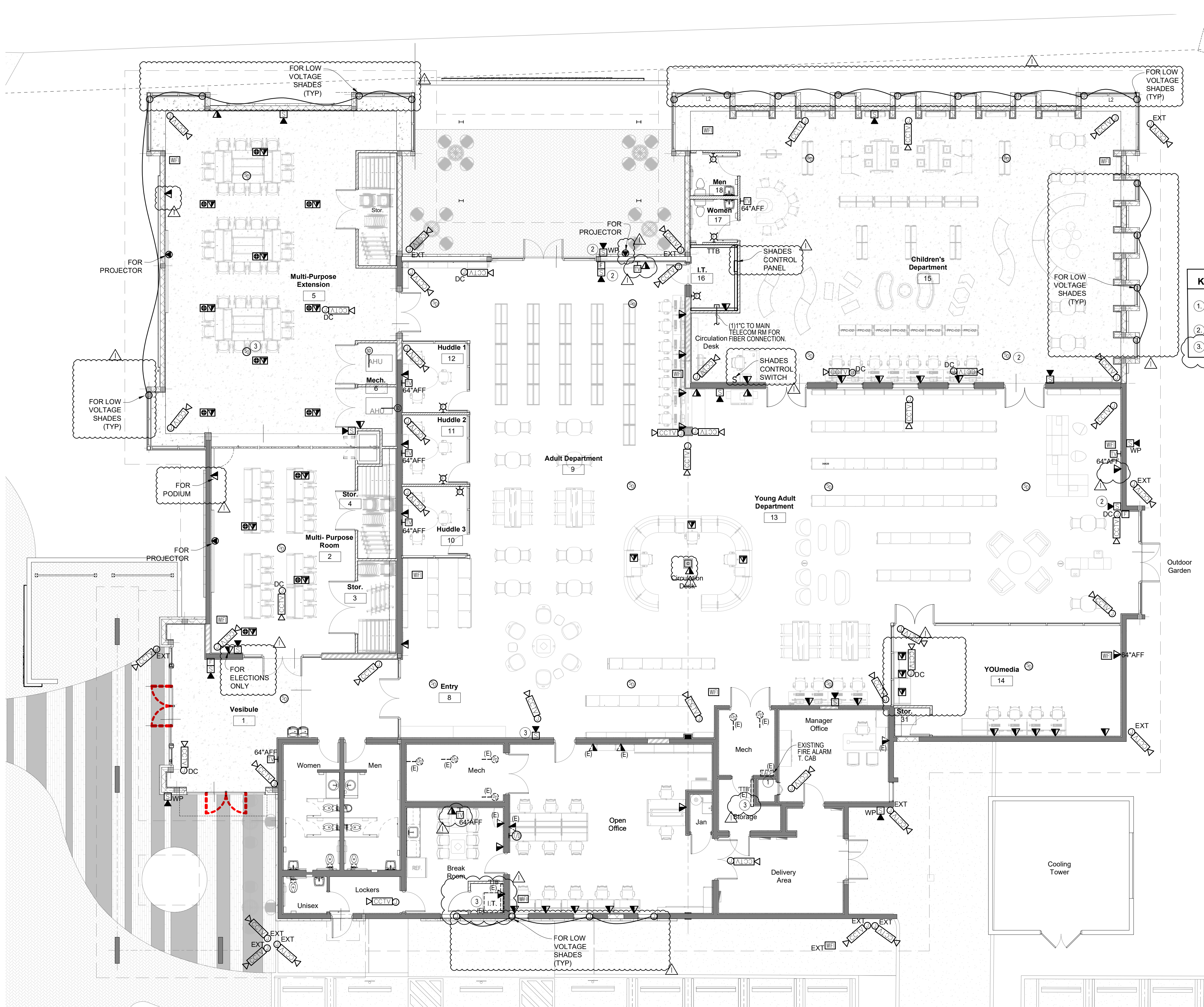
- FURNISH AND INSTALL ALL WIRING AND RACEWAYS TO COMPLETE CIRCUITING AS INDICATED ON THESE DRAWINGS.
- COORDINATE EXACT LOCATION OF ALL RECEPTACLES WITH ARCHITECTURAL DRAWINGS AND ELEVATIONS PRIOR TO ROUGH-IN.
- REFER TO ARCHITECTURAL DRAWINGS FOR WALL TYPE RATINGS. ENSURE ALL WALL BOXES IN FIRE RATED WALLS HAVE FIRE PUTTY AROUND THE BOX.
- CONTRACTOR SHALL VERIFY EXISTING CIRCUITS TO REMAIN ACROSS EXISTING PANELS SCHEDULE. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

KEYED NOTES :

- EXISTING FIRE ALARM CONTROL PANEL TO REMAIN, PROVIDE NEW POWER BOOSTERS AS NECESSARY TO ACCOMMODATE ANY NEW ADDED DEVICES.
- EXISTING ELECTRICAL CONNECTION FOR WATER HEATER. RECONNECT TO NEW WATER HEATER PROVIDED. NEW EWH HAS SAME CAPACITY AND KW OF EXISTING.
- ALL NEW FIRE ALARM DEVICES SHALL MATCH EXISTING MANUFACTURER. (TYP)
- EXISTING DISCONNECT SWITCH FOR NEW CHILLER TO REMAIN, REPLACE FUSES AS REQUIRED. REUSE EXISTING CONDUIT WITH NEW WIRE AS SHOWN ON PANEL SCHEDULE, AND CONNECT TO NEW CHILLER WHEN INSTALLED.
- REPLACE EXISTING VFD'S WITH NEW AS SHOWN ON MECHANICAL DRAWINGS. DISCONNECT EXISTING CIRCUIT, WIRE, AND CONDUIT, AND RECONNECT TO NEW VFD WHEN INSTALLED. VFD'S ARE REPLACED LIKE-FOR-LIKE. (TYP)

1 Floor Plan - Power - Electrical
E3.1 Scale: 1/8" = 1'-0"



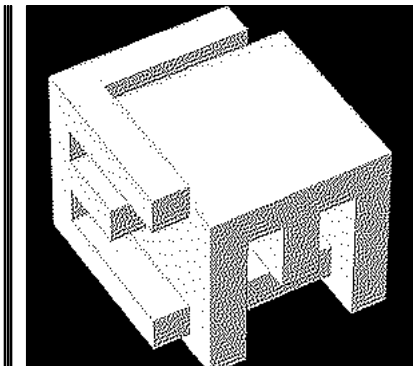


PROJ. No. 30056
LOUIS J. AGUIRRE & ASSOCIATES P.A.
CONSULTING ENGINEERS
9150 SOUTH DADELAND BLVD., SUITE 900
MIAMI, FLORIDA 33156
TELEPHONE: (305) 670-0141
FAX: (305) 670-0144
www.ljagpa.com

- GENERAL NOTES:**
- COORDINATE EXACT LOCATION OF ALL LOW VOLTAGE DEVICES WITH ARCHITECTURAL DRAWINGS AND ELEVATIONS PRIOR TO ROUGH-IN.
 - REFER TO ARCHITECTURAL DRAWINGS FOR WALL TYPE RATINGS. ENSURE ALL WALL BOXES IN FIRE RATED WALLS HAVE FIRE PUTTY AROUND THE BOX.
 - CONTRACTOR SHALL PROVIDE J-HOOK DESIGN OR PROPER MOUNTING HARDWARE FOR LOW VOLTAGE CABLES.
 - LOW VOLTAGE DEVICES ARE SHOWN FOR RACEWAY REQUIREMENTS ONLY. LOW VOLTAGE VENDORS ARE REQUIRED TO COORDINATE ALL CABLING AND EQUIPMENT REQUIREMENTS WITH THE OWNER.

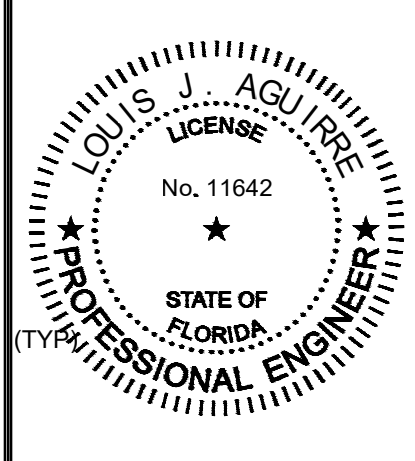
- KEYED NOTES :**
- EXISTING FIRE ALARM CONTROL PANEL TO REMAIN. PROVIDE NEW POWER BOOSTERS AS NECESSARY TO ACCOMMODATE ANY NEW ADDED DEVICES. (TYP)
 - ALL NEW FIRE ALARM DEVICES SHALL MATCH EXISTING MANUFACTURER. (TYP)
 - CONTRACTOR TO PROTECT EXISTING IT EQUIPMENT DURING CONSTRUCTION.

1 Floor Plan - Systems - Electrical
E3.2 Scale: 1/8" = 1'-0"



ELM ARCH
8950 SW 74TH Court
Suite 1204
Miami, FL 33156
786-391-2646

Qualifier: Erik Lloyd Myers
State of Florida: AR 93574
Sign & Seal: Louis J. Aguirre P.E.
State of Florida: License No. 11642



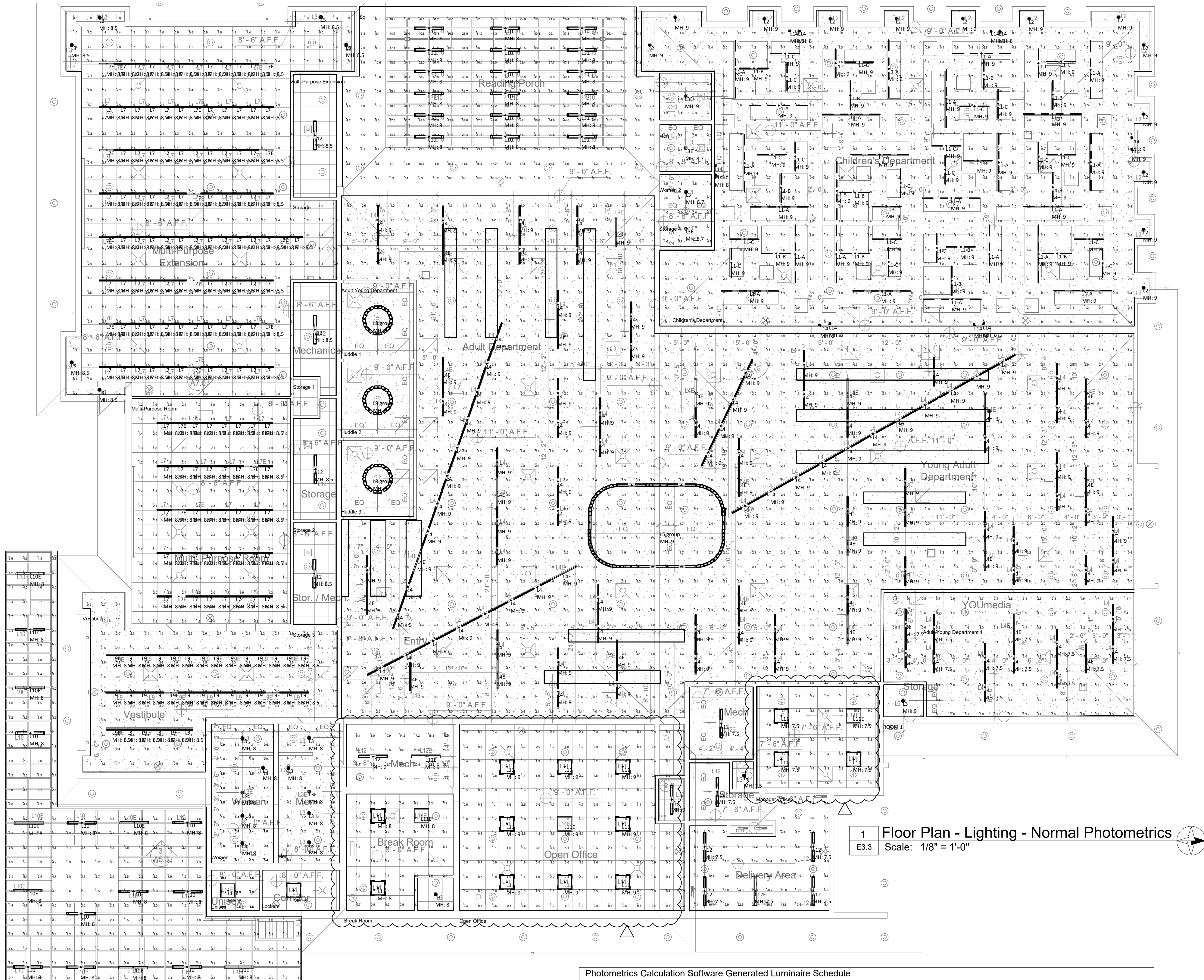
OWNER:

Miami Lakes Branch Library
6699 Windmill Gate Road
Miami Lakes, FL 33014
TITLE: Floor Plan - Systems - Electrical

REVISION
OWNER CHANGES 08/28/23

DATE
04-03-2023
PROJECT NUMBER
19119
SHEET NUMBER

E3.2
OF



1 Floor Plan - Lighting - Normal Photometrics
Scale: 1/8" = 1'-0"

Scene/Channel Summary			
Scene: NORMAL MODE			
Channel	Switched	Dimming	# Lums
L1-A	On	1.00	24
L1-B	On	1.00	12
L1-C	On	1.00	24
L10	On	1.00	28
L10E	On	1.00	7
L11	On	1.00	14
L11E	On	1.00	4
L12	On	1.00	12
L12E	On	1.00	2
L14	Off	1.00	12
L2	On	1.00	13
L3	On	1.00	18
L3E	On	1.00	5
L4	On	1.00	99
L4E	On	1.00	23
L5 group	On	1.00	1
L7	On	1.00	121
L7E	On	1.00	17
L8 group	On	1.00	3
L9	On	1.00	28
L9E	On	1.00	6

Photometrics Calculation Software Generated Luminaire Schedule							
Scene: NORMAL MODE							
Symbol	Qty	Label	Arrangement	Lum. Lumens	Arr. Lum. Lumens	LLF	Lum. Watts
—	24	L1-A	Single	1600	1600	1.800	32.2
—	12	L1-B	Single	1600	1600	0.900	16.3
—	24	L1-C	Single	1600	1600	0.900	16.3
—	28	L10	Single	2000	2000	0.900	22.18
—	7	L10E	Single	2000	2000	0.900	22.18
—	14	L11	Single	3900	3900	0.900	39.6
—	4	L11E	Single	3900	3900	0.900	39.6
—	12	L12	SINGLE	4753	4753	0.900	43
—	2	L12E	SINGLE	4753	4753	0.900	43
—	12	L14	Single	309	309	1.000	3.84
—	13	L2	SINGLE	929	929	0.900	9.5
—	18	L3	SINGLE	1169	1169	0.900	14
—	5	L3E	SINGLE	1169	1169	0.900	14
—	99	L4	SINGLE	5007	5007	0.500	47.3
—	23	L4E	SINGLE	5007	5007	0.810	47.3
—	1	L5 group	GROUP	N.A.	158064	N.A.	731.4
—	121	L7	SINGLE	1002	1002	0.900	12.3
—	17	L7E	SINGLE	1002	1002	0.810	12.3
—	3	L8 group	GROUP	N.A.	20810	0.450	108.1
—	28	L9	SINGLE	1002	1002	0.810	12.3
—	6	L9E	SINGLE	1002	1002	0.810	12.3

PROJ. No. 30056



CA 924

LOUIS J. AGUIRRE & ASSOCIATES P.A.

CONSULTING ENGINEERS

9150 SOUTH DADELAND BLVD. SUITE 900

MIAMI, FLORIDA 33156

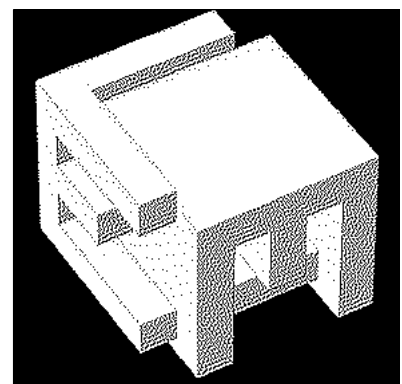
TELEPHONE: (305) 670-0141

FAX: (305) 670-0144

www.ljappa.com

LPD Area Summary			
Scene: NORMAL MODE			
Label	Area	Total Watts	LPD
Adult-Young Department	5554	5887.094	1.060
Adult-Young Department 1	563.73	614.8999	1.091
BOH	88.69	43	0.485
BOH_1	60.41	43	0.712
BOH_2	254.73	215	0.844
BOH_3	141.07	86	0.610
Break Room	212.47	118.8	0.559
Children's Department	2652	1473.601	0.556
Huddle 1	104.86	108.1	1.031
Huddle 2	104.91	108.1	1.030
Huddle 3	104.86	108.1	1.031
Jan	21.39	43	2.010
Lockers	59.79	39.6	0.662
Manager Office	239.65	158.4	0.661
Men	163.63	70	0.428
Men 1	46.68	14	0.300
Multi-Purpose Extension	1665	1289.4	0.774
Multi-Purpose Room	683.79	491.9998	0.720
Open Office	777.92	356.4	0.458
ROOM 1	24.35	14	0.575
ROOM 2	10.81	14	1.295
ROOM 3	22.26	14	0.629
Sc	1031	399.2399	0.387
Sc 1	1046	377.0599	0.360
Storage	101.91	43	0.422
Storage 1	84.00	43	0.512
Storage 2	90.33	43	0.476
Storage 3	84.50	43	0.509
Storage 4	71.38	28	0.392
Unisex	36.99	39.6	1.071
Vestibule	565.86	418.1999	0.739
Women	165.23	70	0.424
Women 2	46.66	14	0.300

Calculation Summary							
Scene: NORMAL MODE							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Adult-Young Department_1_Workplane	Illuminance	Fc	42.98	71.2	15.2	2.83	4.68
Adult-Young Department_Workplane	Illuminance	Fc	50.37	104.3	12.9	3.90	8.09
BOH_1_Workplane	Illuminance	Fc	38.14	58.8	12.2	3.13	4.82
BOH_2_Workplane	Illuminance	Fc	58.48	89.5	5.9	9.91	15.17
BOH_3_Workplane	Illuminance	Fc	38.70	46.8	28.5	1.36	1.64
BOH_Workplane	Illuminance	Fc	34.26	56.1	20.5	1.67	2.74
Break Room_Workplane	Illuminance	Fc	39.22	68.1	9.1	4.31	7.48
Children's Department_Workplane	Illuminance	Fc	48.66	82.6	6.1	7.98	13.54
Huddle_1_Workplane	Illuminance	Fc	39.46	61.0	24.8	1.59	2.46
Huddle_2_Workplane	Illuminance	Fc	39.50	61.0	24.4	1.62	2.50
Huddle_3_Workplane	Illuminance	Fc	39.62	61.2	24.9	1.59	2.46
Jan_Floor	Illuminance	Fc	27.33	29.1	26.3	1.04	1.11
Lockers_Floor	Illuminance	Fc	24.00	31.2	15.4	1.56	2.03
Manager Office_Workplane	Illuminance	Fc	51.24	79.7	27.8	1.84	2.87
Men_1_Floor	Illuminance	Fc	10.03	12.1	8.5	1.18	1.42
Men_Floor_1	Illuminance	Fc	24.04	34.3	12.8	1.88	2.68
Multi-Purpose Extension_Workplane	Illuminance	Fc	55.13	81.2	9.3	5.93	8.73
Multi-Purpose Room_Workplane	Illuminance	Fc	49.68	74.3	15.7	3.16	4.73
Open Office_Workplane	Illuminance	Fc	37.84	62.3	7.7	4.91	8.09
ROOM_1_Workplane	Illuminance	Fc	20.18	22.7	18.7	1.08	1.21
ROOM_2_Workplane	Illuminance	Fc	40.05	40.3	39.8	1.01	1.01
ROOM_3_Workplane	Illuminance	Fc	28.40	28.6	28.2	1.01	1.01
Sc_1_Workplane	Illuminance	Fc	21.09	33.7	1.5	14.06	22.47
Sc_Workplane	Illuminance	Fc	28.08	62.2	2.3	12.21	27.04
Storage_1_Workplane	Illuminance	Fc	27.01	47.3	7.3	3.70	6.48
Storage_2_Workplane	Illuminance	Fc	26.20	46.3	6.6	3.97	7.02
Storage_3_Workplane	Illuminance	Fc	27.76	47.1	14.7	1.89	3.20
Storage_4_Floor	Illuminance	Fc	15.65	19.7	11.8	1.33	1.67
Storage_Workplane	Illuminance	Fc	24.72	44.7	10.7	2.31	4.18
Unisex_Floor_1	Illuminance	Fc	29.29	33.9	24.4	1.20	1.39
Vestibule_Workplane	Illuminance	Fc	45.35	72.9	3.4	13.34	21.44
Women_2_Floor	Illuminance	Fc	10.58	12.7	8.9	1.19	1.43
Women_Floor_1	Illuminance	Fc	23.96	33.8	13.4	1.79	2.52

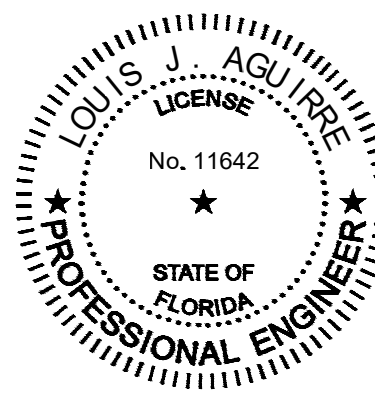


ELM ARCH

8950 SW 74TH Court
Suite 1204
Miami, FL 33156
786-391-2646

Qualifier: Erik Lloyd Myers
State of Florida: AR 93574

Sign & Seal: Louis J. Aguirre P.E.
State of Florida: License No. 11642



OWNER:

Miami Lakes Branch Library

6699 Windmill Gate Road
Miami Lakes, FL 33014

TITLE: Floor Plan - Lighting - Normal Photometrics

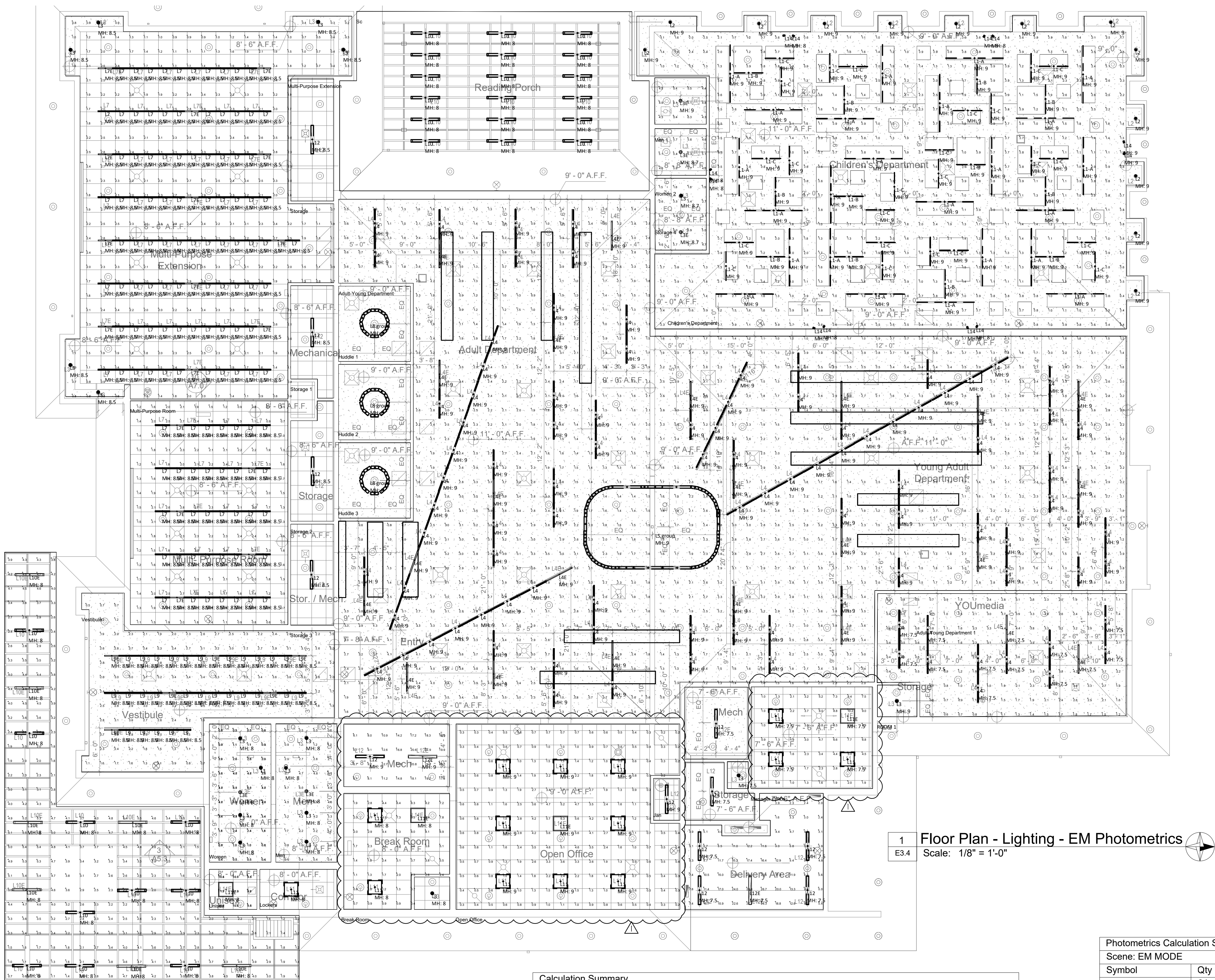
REVISION
OWNER CHANGES 08/28/23

DATE
04-03-2023
PROJECT NUMBER
19119

SHEET NUMBER

E3.3

OF



1 Floor Plan - Lighting - EM Photometrics
Scale: 1/8" = 1'-0"

Calculation Summary							
Scene: EM MODE							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Adult-Young Department_1_Floor	Illuminance	Fc	2.02	4.5	0.3	6.73	15.00
Adult-Young Department_Floor	Illuminance	Fc	2.21	4.5	0.4	5.53	11.25
BOH_2_Floor	Illuminance	Fc	10.73	28.6	0.9	11.92	31.78
BOH_3_Floor	Illuminance	Fc	14.39	22.2	6.1	2.36	3.64
Break Room_Floor	Illuminance	Fc	3.69	9.4	0.4	9.23	23.50
Children's Department_Floor	Illuminance	Fc	1.22	3.2	0.3	4.07	10.67
Manager Office_Floor	Illuminance	Fc	3.62	10.2	0.6	6.03	17.00
Men_1_Floor	Illuminance	Fc	5.08	6.1	4.3	1.18	1.42
Men_Floor	Illuminance	Fc	2.58	6.1	0.4	6.45	15.25
Multi-Purpose Extension_Floor	Illuminance	Fc	1.96	3.0	0.2	9.80	15.00
Multi-Purpose Room_Floor	Illuminance	Fc	1.87	2.8	0.5	3.74	5.60
Open Office_Floor	Illuminance	Fc	1.46	6.3	0.2	7.30	31.50
Sc 1_Floor	Illuminance	Fc	3.15	5.6	0.7	4.50	8.00
Storage 4_Floor	Illuminance	Fc	3.96	6.0	1.5	2.64	4.00
Unisex_Floor	Illuminance	Fc	10.22	11.9	8.5	1.20	1.40
Unisex_Floor_1	Illuminance	Fc	10.34	11.9	8.6	1.20	1.38
Vestibule_Floor	Illuminance	Fc	2.51	3.6	0.5	5.02	7.20
Women_2_Floor	Illuminance	Fc	5.33	6.4	4.6	1.16	1.39
Women_Floor	Illuminance	Fc	2.58	6.0	0.4	6.45	15.00
Women_Floor_1	Illuminance	Fc	2.61	6.1	0.4	6.53	15.25

LPD Area Summary			
Label	Area	Total Watts	LPD
Adult-Young Department	5655	6028.994	1.066
Adult-Young Department 1	487.83	520.2999	1.067
BOH	88.69	43	0.485
BOH_1	60.41	43	0.712
BOH_2	254.73	215	0.844
BOH_3	141.07	86	0.610
Break Room	246.54	155.2	0.630
Children's Department	2713	2441.201	0.900
Huddle 1	104.86	108.1	1.031
Huddle 2	104.91	108.1	1.030
Huddle 3	104.86	108.1	1.031
Jan	21.39	43	2.010
Lockers	59.79	38.8	0.649
Manager Office	239.65	155.2	0.648
Men	163.63	70	0.428
Men 1	46.04	28	0.608
Multi-Purpose Extension	1665	1289.4	0.774
Multi-Purpose Room	683.79	491.9998	0.720
Open Office	777.92	349.2	0.449
Sc	1031	332.8	0.323
Sc 1	1046	332.8	0.318
Storage	101.91	43	0.422
Storage 1	78.00	43	0.551
Storage 2	84.00	43	0.512
Storage 3	84.50	43	0.509
Storage 4	32.23	14	0.434
Unisex	36.99	38.8	1.049
Vestibule	565.86	418.1999	0.739
Women	165.23	70	0.424
Women 2	46.04	28	0.608

Scene/Channel Summary			
Scene: EM MODE			
Channel	Switched	Dimming	# Lums
L1-A	Off	1.00	24
L1-B	Off	1.00	12
L1-C	Off	1.00	24
L10	Off	1.00	28
L10E	On	0.45	7
L11	Off	1.00	14
L11E	On	0.35	4
L12	Off	1.00	12
L12E	On	1.00	2
L14	On	1.00	12
L2	Off	1.00	13
L3	Off	1.00	18
L3E	On	0.49	5
L4	Off	1.00	99
L4E	On	0.22	23
L5 group	Off	1.00	1
L7	Off	1.00	121
L7E	On	0.37	17
L8 group	Off	1.00	3
L9	Off	1.00	28
L9E	On	0.37	6

Photometrics Calculation Software Generated Luminaire Schedule								
Scene: EM MODE								
Symbol	Qty	Label	Arrangement	Lum. Lumens	Arr. Lum. Lumens	LLF	Lum. Watts	Arr. Watts
	24	L1-A	Single	1600	1600	1.800	32.2	32.2
	12	L1-B	Single	1600	1600	0.900	16.3	16.3
	24	L1-C	Single	1600	1600	0.900	16.3	16.3
	28	L10	Single	2000	2000	0.900	22.18	22.18
	7	L10E	Single	2000	2000	0.900	22.18	22.18
	14	L11	Single	3900	3900	0.900	39.6	39.6
	4	L11E	Single	3900	3900	0.900	39.6	39.6
	12	L12	SINGLE	4753	4753	0.900	43	43
	2	L12E	SINGLE	4753	4753	0.900	43	43
	12	L14	Single	309	309	1.000	3.84	3.84
	13	L2	SINGLE	929	929	0.900	9.5	9.5
	18	L3	SINGLE	1169	1169	0.900	14	14
	5	L3E	SINGLE	1169	1169	0.900	14	14
	99	L4	SINGLE	5007	5007	0.500	47.3	47.3
	23	L4E	SINGLE	5007	5007	0.810	47.3	47.3
	1	L5 group	GROUP	N.A.	158064	N.A.	N.A.	731.4
	121	L7	SINGLE	1002	1002	0.900	12.3	12.3
	17	L7E	SINGLE	1002	1002	0.810	12.3	12.3
	3	L8 group	GROUP	N.A.	20810	0.450	N.A.	108.1
	28	L9	SINGLE	1002	1002	0.810	12.3	12.3
	6	L9E	SINGLE	1002	1002	0.810	12.3	12.3

PROJ. No. 30056



CA 924

LOUIS J. AGUIRRE & ASSOCIATES P.A.

CONSULTING ENGINEERS

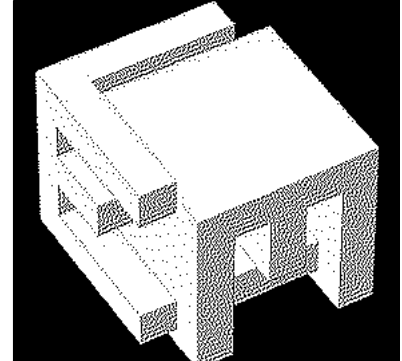
9150 SOUTH DADELAND BLVD. SUITE 900

MIAMI, FLORIDA 33156

TELEPHONE: (305) 670-0141

FAX: (305) 670-0144

www.ljappa.com

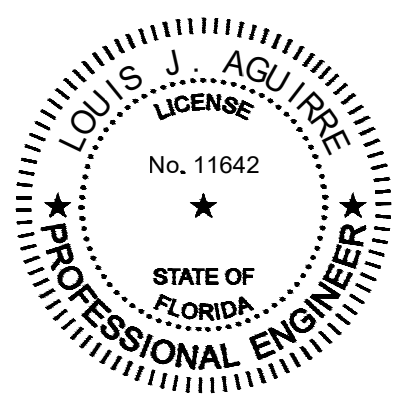


ELM ARCH

8950 SW 74TH Court
Suite 1204
Miami, FL 33156
786-391-2646

Qualifier: Erik Lloyd Myers
State of Florida: AR 93574

Sign & Seal: Louis J. Aguirre P.E.
State of Florida: License No. 11642



OWNER:

Miami Lakes Branch Library

6699 Windmill Gate Road
Miami Lakes, FL 33014

TITLE: Floor Plan - Lighting - EM Photometrics

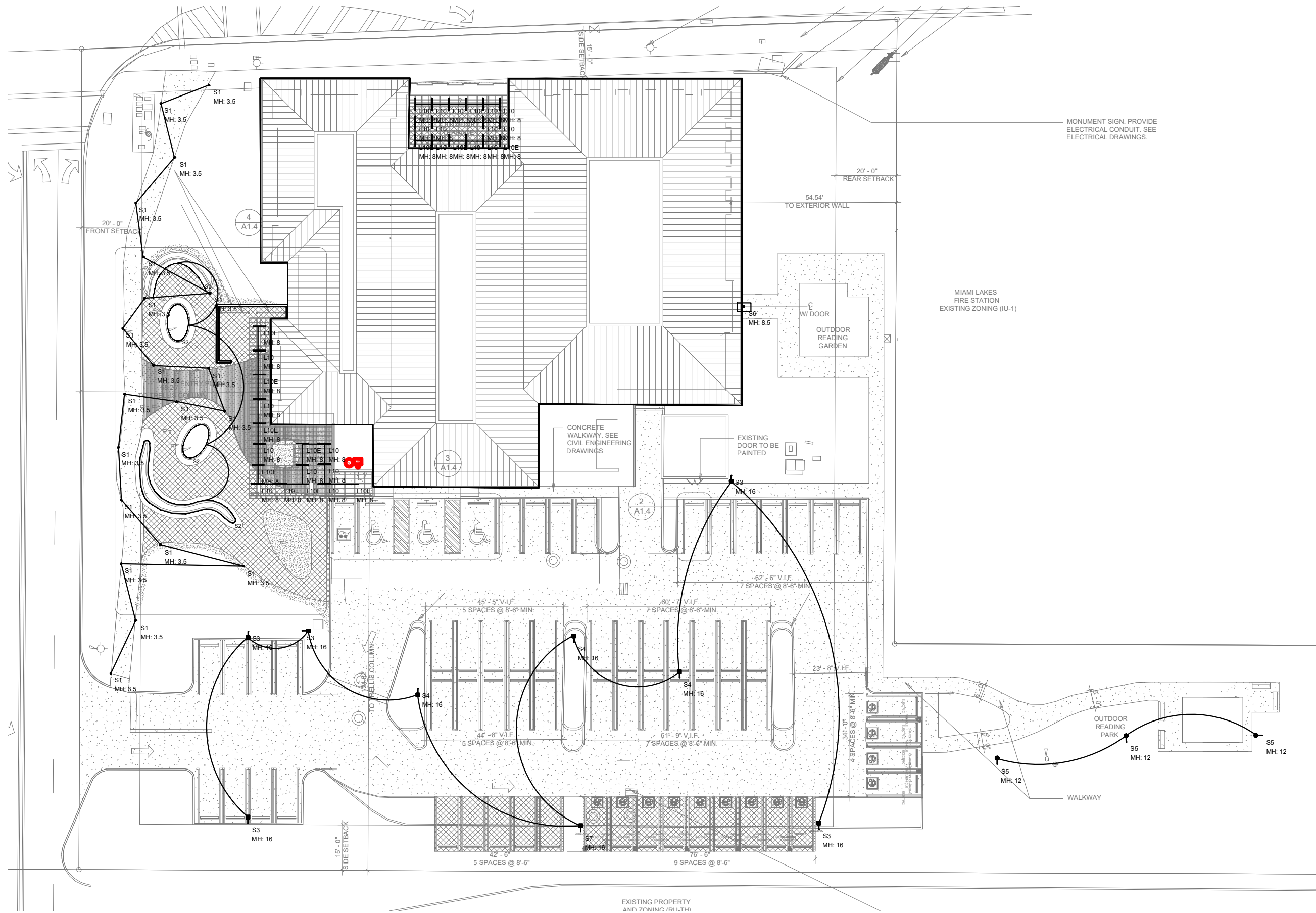
REVISION
OWNER CHANGES 08/28/23

DATE
04-03-2023
PROJECT NUMBER
19119

SHEET NUMBER

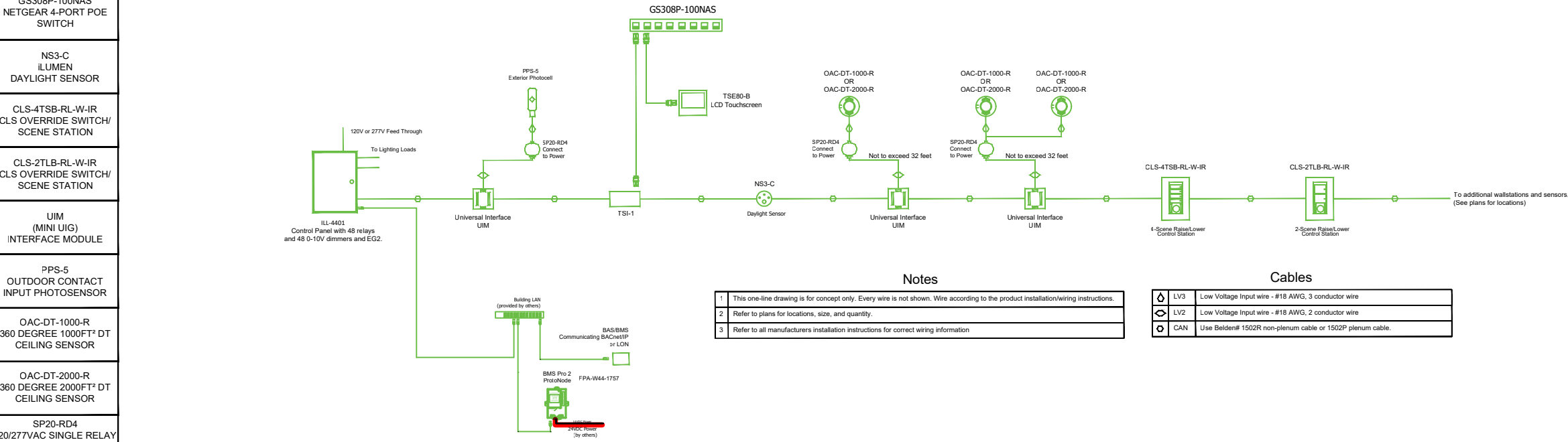
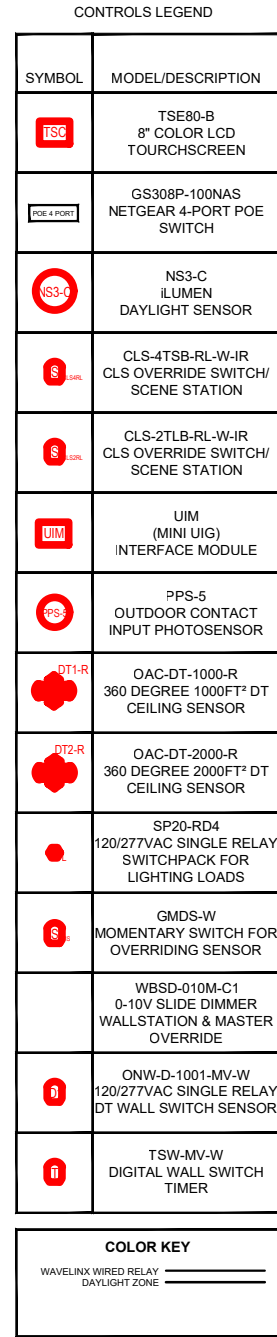
E3.4

OF

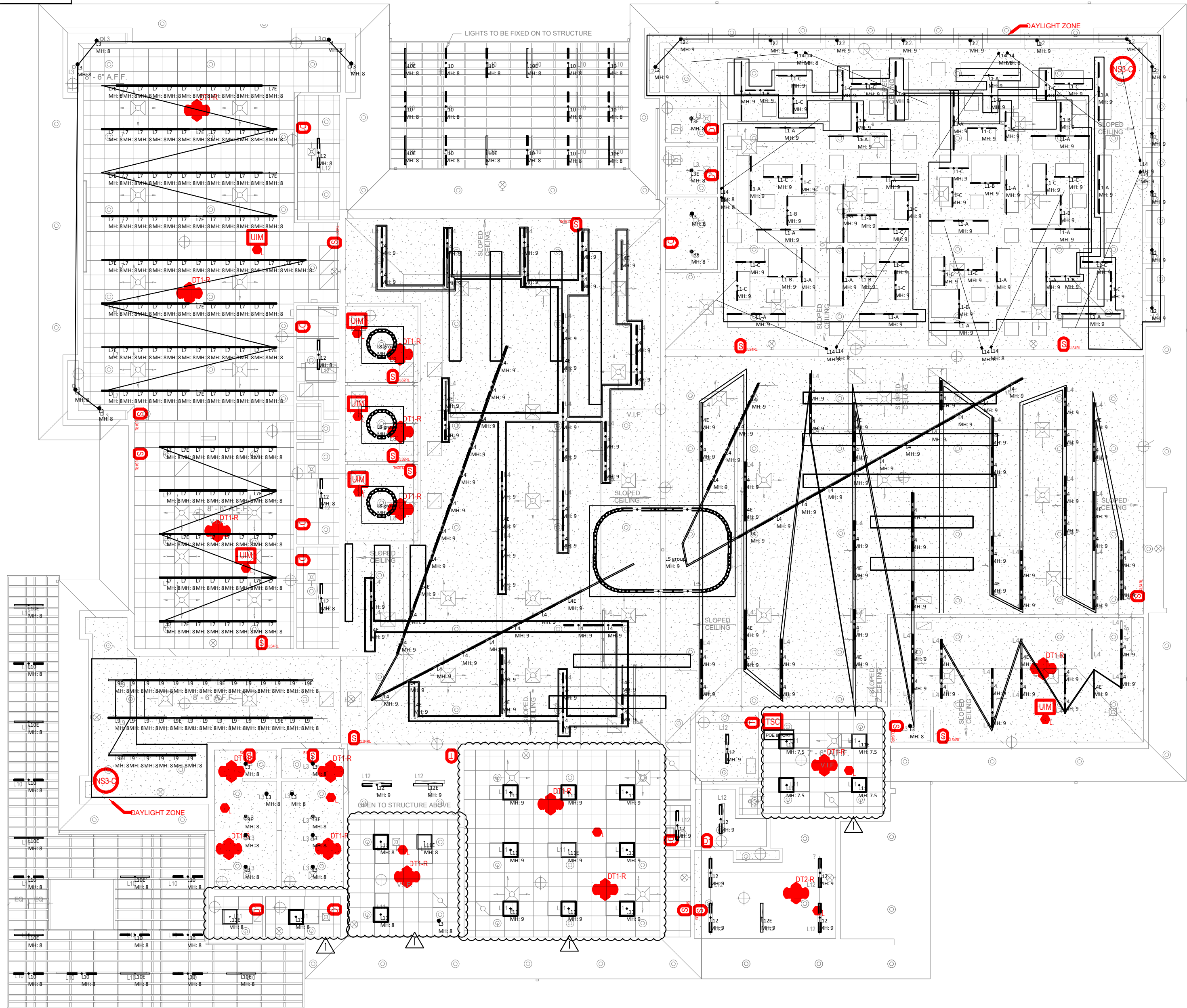


1 Site Plan - Lighting -Controls Layout
E3.5 Scale: NTS

CONTROL PANEL SCHEDULE (Miami Lakes Library)							
Panel	Circuit	Relay	Area	Type	Control Type	Load Description	Dimming
LCP1	TBD	1	SITE	S5	TIMECLOCK/PHOTOCELL	LED	N/A
LCP1	TBD	2	SITE	S3, S4, S7	TIMECLOCK/PHOTOCELL	LED	N/A
LCP1	TBD	3	SITE	S1	TIMECLOCK/PHOTOCELL	LED	N/A
LCP1	TBD	4	SITE	S2	TIMECLOCK/PHOTOCELL	LED	N/A
LCP1	TBD	5	SITE	S6	TIMECLOCK/PHOTOCELL	LED	N/A
LCP1	TBD	6	COVERED WALKWAY	L10, L10E	TIMECLOCK/PHOTOCELL	LED	0-10V
LCP1	TBD	7	OUTDOOR TERRACE	L10, L10E	TIMECLOCK/PHOTOCELL	LED	0-10V
LCP1	TBD	8	VESTIBULE 1	L9, L9E	TIMECLOCK/DAYLIGHT ZONE/TOUCHSCREEN	LED	0-10V
LCP1	TBD	9	VESTIBULE 1	L9, L9E	TIMECLOCK/TOUCHSCREEN	LED	0-10V
LCP1	TBD	10	MULTIPURPOSE ROOM 2	L7, L7E	TIMECLOCK/TOUCHSCREEN/OCC SENSORS/ KEYPAD	LED	0-10V
LCP1	TBD	11	MULTIPURPOSE ROOM 5	L7, L7E	TIMECLOCK/TOUCHSCREEN/OCC SENSORS/ KEYPAD	LED	0-10V
LCP1	TBD	12	MULTIPURPOSE ROOM 5	L7, L7E	TIMECLOCK/TOUCHSCREEN/OCC SENSORS/ KEYPAD	LED	0-10V
LCP1	TBD	13	MULTIPURPOSE ROOM 5	L3	TIMECLOCK/TOUCHSCREEN/OCC SENSORS/ KEYPAD	LED	0-10V
LCP1	TBD	14	ENTRY 8	L4, L4E	TIMECLOCK/TOUCHSCREEN/KEYPAD	LED	0-10V
LCP1	TBD	15	ENTRY 8	L4, L4E	TIMECLOCK/TOUCHSCREEN/KEYPAD	LED	0-10V
LCP1	TBD	16	ENTRY 8	L4, L4E	TIMECLOCK/TOUCHSCREEN/KEYPAD	LED	0-10V
LCP1	TBD	17	ENTRY 8	L4, L4E	TIMECLOCK/TOUCHSCREEN/KEYPAD	LED	0-10V
LCP1	TBD	18	ADULT DEPARTMENT 6	L4, L4E	TIMECLOCK/TOUCHSCREEN/KEYPAD	LED	0-10V
LCP1	TBD	19	ADULT DEPARTMENT 6	L4, L4E	TIMECLOCK/TOUCHSCREEN/KEYPAD	LED	0-10V
LCP1	TBD	20	YOUNG ADULT DEPARTMENT 13	L4, L4E	TIMECLOCK/TOUCHSCREEN/KEYPAD	LED	0-10V
LCP1	TBD	21	YOUNG ADULT DEPARTMENT 13	L4, L4E	TIMECLOCK/TOUCHSCREEN/KEYPAD	LED	0-10V
LCP1	TBD	22	YOUNG ADULT DEPARTMENT 13	L4, L4E	TIMECLOCK/TOUCHSCREEN/KEYPAD	LED	0-10V
LCP1	TBD	23	YOUNG ADULT DEPARTMENT 13	L4, L4E	TIMECLOCK/TOUCHSCREEN/KEYPAD	LED	0-10V
LCP1	TBD	24	YOUNG ADULT DEPARTMENT 13	L4, L4E	TIMECLOCK/TOUCHSCREEN/KEYPAD	LED	0-10V
LCP1	TBD	25	YOUNG ADULT DEPARTMENT 13	L4, L4E	TIMECLOCK/TOUCHSCREEN/KEYPAD	LED	0-10V
LCP1	TBD	26	YOUNG ADULT DEPARTMENT 13	L5	TIMECLOCK/TOUCHSCREEN/KEYPAD	LED	0-10V
LCP1	TBD	27	YOU MAKE 14	L4, L4E	TIMECLOCK/TOUCHSCREEN/OCC SENSORS/ KEYPAD	LED	0-10V
LCP1	TBD	28	YOU MAKE 14	L4, L4E	TIMECLOCK/TOUCHSCREEN/OCC SENSORS/ KEYPAD	LED	0-10V
LCP1	TBD	29	CHILDRENS DEPARTMENT 15	L1-A, L1-B, L1-C	TIMECLOCK/DAYLIGHT ZONE/TOUCHSCREEN/KEYPAD	LED	0-10V
LCP1	TBD	30	CHILDRENS DEPARTMENT 15	L1-A, L1-C	TIMECLOCK/DAYLIGHT ZONE/TOUCHSCREEN/KEYPAD	LED	0-10V
LCP1	TBD	31	CHILDRENS DEPARTMENT 15	L1-A, L1-B, L1-C	TIMECLOCK/DAYLIGHT ZONE/TOUCHSCREEN/KEYPAD	LED	0-10V
LCP1	TBD	32	CHILDRENS DEPARTMENT 15	L1-A, L1-B, L1-C	TIMECLOCK/DAYLIGHT ZONE/TOUCHSCREEN/KEYPAD	LED	0-10V
LCP1	TBD	33	CHILDRENS DEPARTMENT 15	L2	TIMECLOCK/DAYLIGHT ZONE/TOUCHSCREEN/KEYPAD	LED	0-10V
LCP1	TBD	34	HUDDLE 1	L8	TIMECLOCK/TOUCHSCREEN/OCC SENSORS/ KEYPAD	LED	0-10V
LCP1	TBD	35	HUDDLE 2	L8	TIMECLOCK/TOUCHSCREEN/OCC SENSORS/ KEYPAD	LED	0-10V
LCP1	TBD	36	HUDDLE 3	L8	TIMECLOCK/TOUCHSCREEN/OCC SENSORS/ KEYPAD	LED	0-10V
LCP1	TBD	37	SPARE				
LCP1	TBD	38	SPARE				
LCP1	TBD	39	SPARE				
LCP1	TBD	40	SPARE				
LCP1	TBD	41	SPARE				
LCP1	TBD	42	SPARE				
LCP1	TBD	43	SPARE				
LCP1	TBD	44	SPARE				
LCP1	TBD	45	SPARE				
LCP1	TBD	46	SPARE				
LCP1	TBD	47	SPARE				
LCP1	TBD	48	SPARE				



Lighting Controls One-Line Diagram
NTS



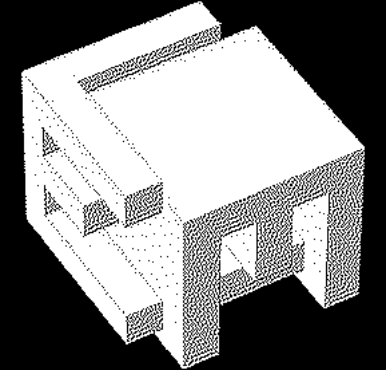
2 Floor Plan - Lighting -Controls Layout
E3.5 Scale: NTS

PROJ. No. 30056



CA 924

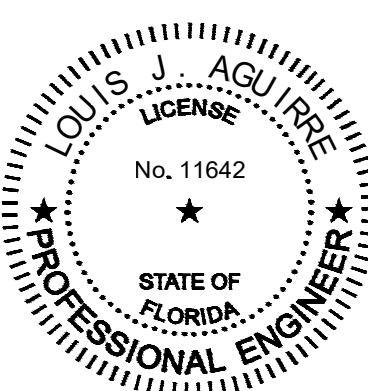
LOUIS J. AGUIRRE & ASSOCIATES P.A.
CONSULTING ENGINEERS
9150 SOUTH DADELAND BLVD. SUITE 900
MIAMI, FLORIDA 33156
TELEPHONE: (305) 670-0141
FAX: (305) 670-0144
www.ljagpa.com



ELM ARCH
8950 SW 74TH Court
Suite 1204
Miami, FL 33156
786-391-2646

Qualifier: Erik Lloyd Myers
State of Florida: AR 93574

Sign & Seal: Louis J. Aguirre P.E.
State of Florida: License No. 11642



OWNER:

Miami Lakes Branch Library

6699 Windmill Gate Road
Miami Lakes, FL 33014

TITLE: Lighting Controls Plan - Electrical

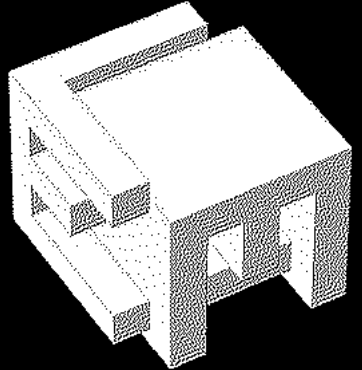
REVISION
OWNER CHANGES 08/28/23

DATE
04-03-2023
PROJECT NUMBER
19119

SHEET NUMBER

E3.5

OF

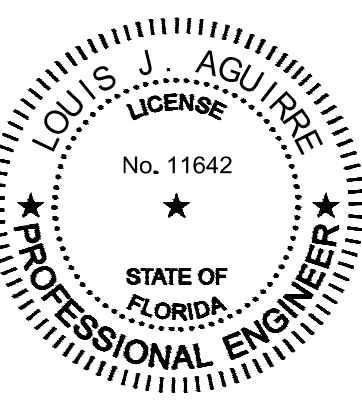


ELM ARCH

8950 SW 74TH Court
Suite 1204
Miami, FL 33156
786-391-2646

Qualifier: Erik Lloyd Myers
State of Florida: AR 93574

Sign & Seal: Louis J. Aguirre P.E.
State of Florida: License No. 11642



OWNER:

Miami Lakes Branch Library

6699 Windmill Gate Road
Miami Lakes, FL 33014

TITLE: Risers- Electrical

REVISION

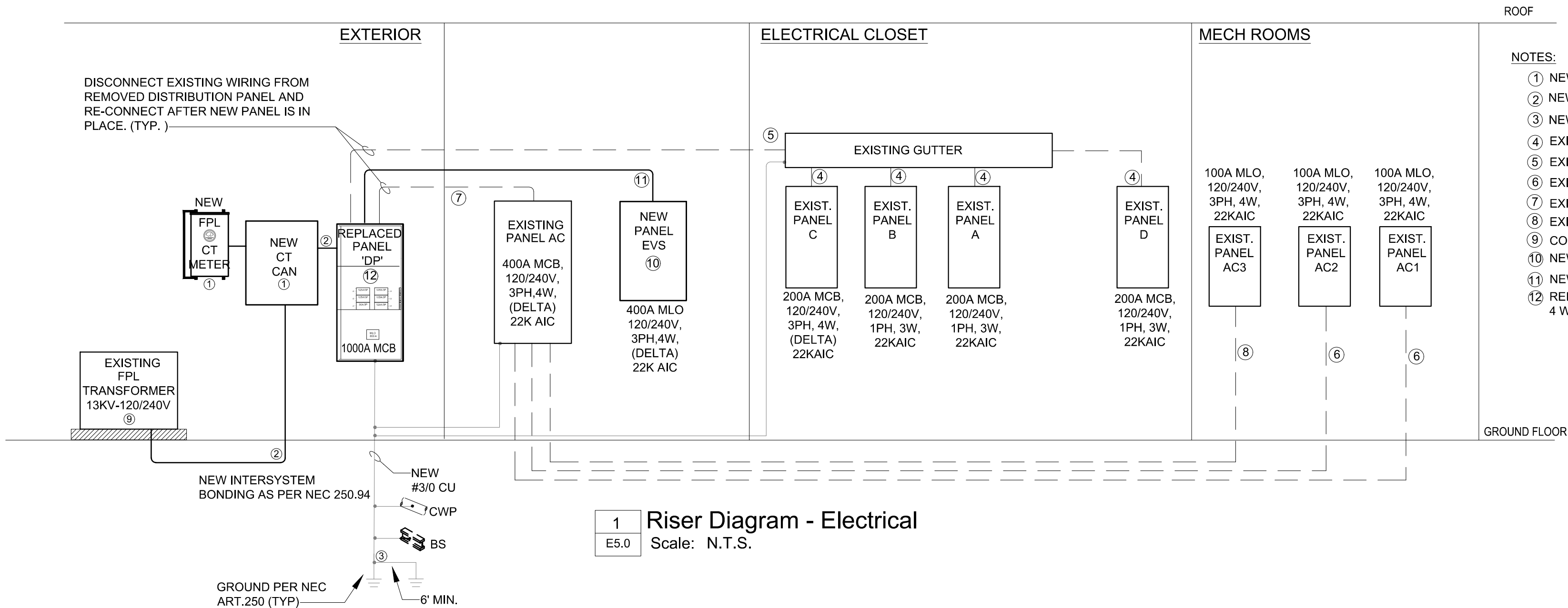
DATE
04-03-2023

PROJECT NUMBER
19119

SHEET NUMBER

E5.0

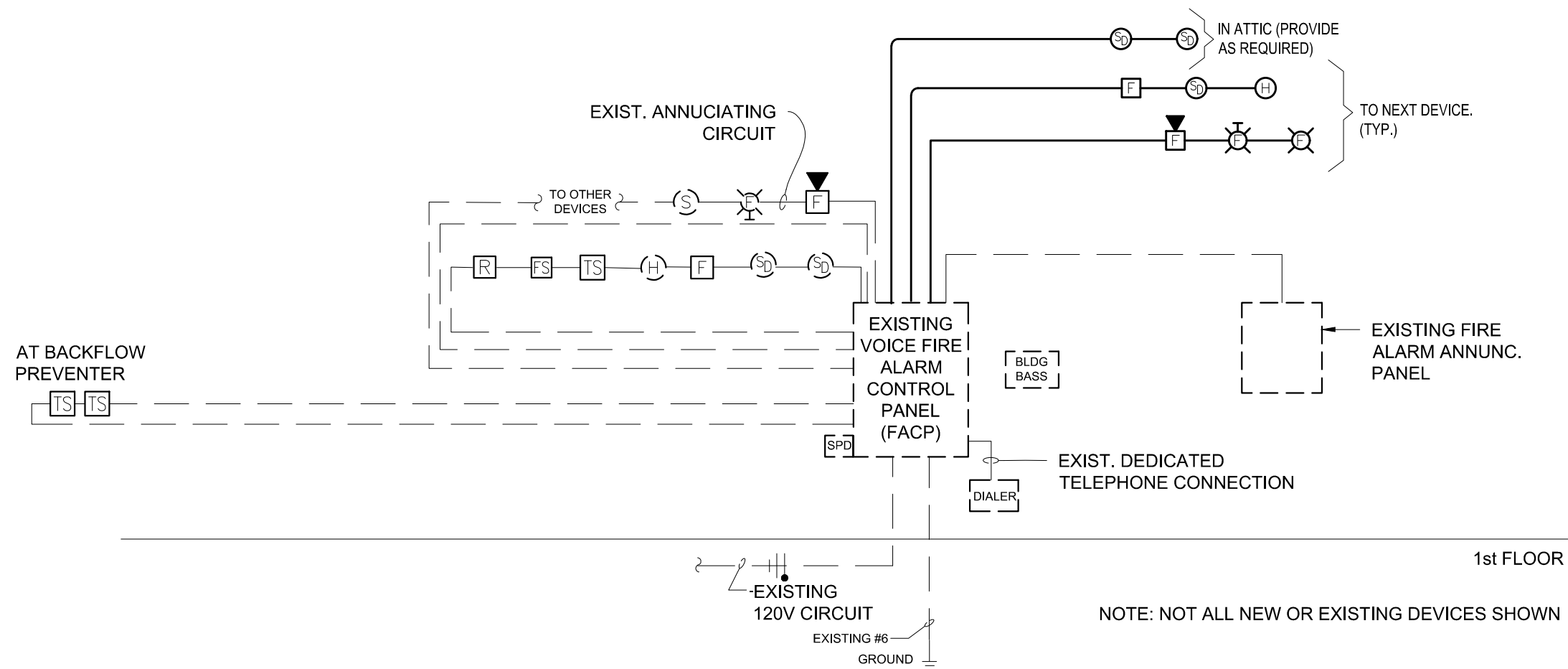
OF



1 Riser Diagram - Electrical
Scale: N.T.S.

NOTES:

- NEW 1000A FPL METER AND CT CAN.
- NEW (3 SETS OF) 4#400 KCML IN 4" C.
- NEW #3/0 CU GROUNDING ELECTRODE CONNECTED TO EXISTING GND RODS.
- EXISTING 2" CONDUIT WITH 3#3/0 AND 1#6GND CONDUCTORS.
- EXISTING 4" CONDUIT WITH 4#4/0 THWN AND 1#4GND CONDUCTORS.
- EXISTING 1 1/4" CONDUIT WITH 3#3 THWN AND 1#6GND CONDUCTORS.
- EXISTING 4" CONDUIT WITH 4#600 KCML AND 1#1GND CONDUCTORS.
- EXISTING 1 1/4" CONDUIT WITH 3#4 THWN AND 1#6GND CONDUCTORS.
- COORDINATE POSSIBLE TRANSFORMER UPGRADE WITH FPL PRIOR TO BID.
- NEW 400A MLO, 120/240V, 3 PHASE, 3 WIRE, 30 SPACE PANELBOARD.
- NEW 3 1/2" CONDUIT WITH 4#350MCM AND 1#4GND CONDUCTORS.
- REPLACE EXISTING PANELBOARD WITH NEW 1000A MLO, 120/240V, 3 PHASE, 4 WIRE, 18 SPACE, LOCKABLE PANELBOARD.



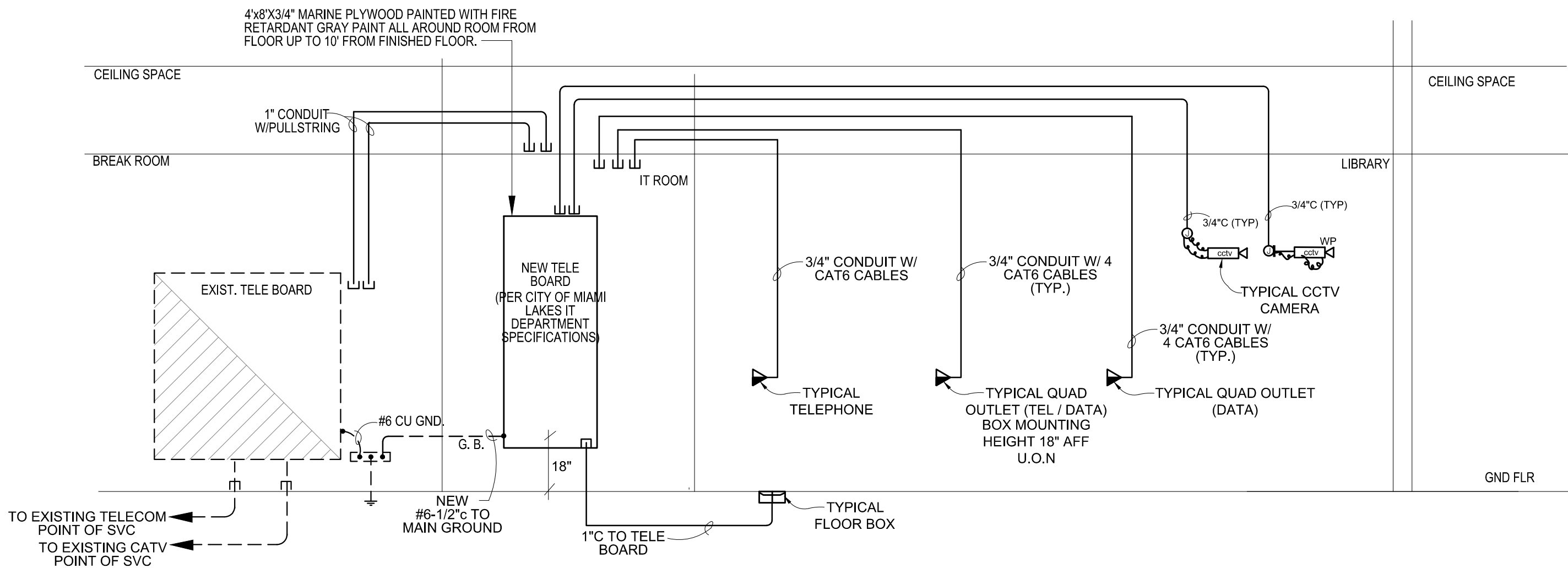
3 Existing Modified Fire Alarm Riser Diagram - Electrical
Scale: NTS

PARTIAL FIRE ALARM SYSTEM RISER NOTES :

- THESE DRAWINGS AND ACCOMPANYING SPECIFICATIONS DEFINE THE DESIGN INTENT OF THE FIRE ALARM SYSTEM TO BE PROVIDED. IN ADDITION TO THE SPECIFIED SYSTEM HEREIN AND IN THE SPECIFICATIONS, CONTRACTOR SHALL PROVIDE SIGNED AND SEALED SHOP DRAWINGS FOR REVIEW AND PERMITTING WHICH INCLUDES ALL PLANNING, DESIGN, CALCULATIONS, EQUIPMENT, DEVICES, RACEWAYS, BOXES, CABLING, BATTERY VOLTAGE CALCULATIONS, RISER DIAGRAM, SYSTEM PROGRAMMING AND ANY OTHER COMPONENT OR SERVICE REQUIRED FOR A COMPLETE, FULLY OPERATIONAL AND CODE COMPLAINT SYSTEM.
- REFER TO FLOOR PLANS FOR LOCATIONS AND QUANTITIES OF ALL DEVICES.
- PROVIDE NEW WIRING IN 3/4" EMT CONDUIT MINIMUM AS REQUIRED FOR ALL NEW FIRE ALARM DEVICES AND BE FULLY COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM AND DEVICES.
- ALL NEW FIRE ALARM DEVICES SHALL BE PROGRAMMED INTO THE EXISTING FIRE ALARM SYSTEM CONTROL PANEL. CONTRACTOR SHALL FURNISH AND INSTALL ANY AND ALL NECESSARY HARDWARE, SOFTWARE, PROGRAMMING FOR A COMPLETE AND FULLY FUNCTIONING FIRE ALARM SYSTEM.
- ALL NEW DEVICES SHALL MEET ADA REQUIREMENTS.
- ALL AUDIO AND VISUAL DEVICES SHALL BE SYNCHRONIZED.
- FIRE ALARM CONTRACTOR SHALL VISIT THE SITE AHEAD OF PROJECT AND DETERMINE REQUIREMENTS BASED ON EXISTING CONDITIONS AND INCLUDE IN HIS BID ALL OF THE NECESSARY PARTS AND LABOR FOR A COMPLETE FIRE ALARM SYSTEM.
- SEAL ALL PENETRATIONS THRU FIRE RATED BARRIERS USING APPROVED MATERIALS AND MANUFACTURER'S APPROVED METHODS TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE EXISTING INSTALLATION.
- ALL FIRE ALARM JUNCTION BOXES SHALL BE COLOR CODED AND PAINTED "RED" FOR IDENTIFICATION PER SPECS.
- FIRE ALARM SYSTEM SHALL BE TESTED AND RE-CERTIFIED AND PROVIDE RECORD OF COMPLETION AS PER NFPA-72 4.5.2.
- CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF THE FIRE ALARM SYSTEM DURING DEMOLITION AND CONSTRUCTION.
- IF APPLICABLE, PROVIDE CONNECTION TO ALL NEW SMOKE AND FIRE/SMOKE DAMPERS. COORDINATE EXACT QUANTITIES AND LOCATIONS WITH DIVISION 23.
- WHEN UPGRADING EXISTING SYSTEM, CONTRACTOR SHALL PROVIDE A ONE YEAR WARRANTY, AND ONE YEAR OF MONITORING SERVICES.

FIRE ALARM SYSTEM MONITORY

1) FIRE ALARM SYSTEM AND SPRINKLER SYSTEM REQUIRING SUPERVISION, ELECTING TO PROVIDE SUPERVISION, OR PROVIDING SUPERVISION AS AN EQUIVALENCY SHALL MEET ALL THE REQUIREMENTS FOR CENTRAL STATION SERVICE OR PROPRIETARY SUPERVISING STATION FIRE ALARM SYSTEMS AND SHALL BE EITHER A CERTIFICATED OR PACARDED CENTRAL STATION FIRE ALARM SYSTEM OR A LISTED PROPRIETARY SUPERVISING FIRE ALARM SYSTEM IN COMPLIANCE WITH THE ADOPTED EDITION OF THE NFPA. 72 THAT IS IN EFFECT AT THE TIME OF PERMIT APPLICATION.



2 Data / Phone Riser Diagram - Electrical
Scale: NTS

TELEPHONE SYSTEM NOTES:

- STUB UP ENTRANCE CONDUIT AT THE BOTTOM LEFT CORNER OF THE PAINTED TELEPHONE PLYWOOD BACKBOARD.
- MAINTAIN FIRE RATINGS OF ALL WALL AND FLOOR PENETRATIONS THROUGH WHICH TELEPHONE CONDUITS PASS.
- 3/4" THICK, LENGTH AND WIDTH AS INDICATED ON RISER DIAGRAM, PAINTED PLYWOOD BACKBOARD.
- ALL EMPTY CONDUIT SHALL BE FURNISHED WITH PULL WIRE.
- PROVIDE EXTENSION OF THE BUILDING GROUND ELECTRODE SYSTEM TO TELEPHONE EQUIPMENT. THE GROUND CONDUCTOR MUST BE A #6 AWG SOLID CU, RUBBER INSULATED (OR EQUIVALENT) BOND TO POWER SYSTEM GROUND.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MIAMI LAKES IT DEPARTMENT FOR CONNECTION TO MAIN CAMPUS SYSTEM.
- REFER TO OTHER ELECTRICAL DRAWINGS FOR QUANTITIES AND LOCATIONS OF TELEPHONE OUTLETS.

SECURITY SYSTEM NOTES:

- FOR QUANTITY AND LOCATION OF SECURITY CAMERAS (CCTV), REFER TO THE FLOOR PLANS.
- PROVIDE A RACEWAY SYSTEM FOR THE SECURITY CAMERAS CONSISTING OF:
 - 3/4" C FROM EXTERIOR SECURITY CAMERAS TO TELECOM ROOM.
 - 3/4" C WITH PULL STRING FROM SECURITY CAMERAS LOCATED IN NOT ACCESSIBLE CEILING TO IT ROOM.
 - A J-BOX WITH A T-BAR AT EACH SECURITY CAMERA LOCATION IN AN ACOUSTICAL CEILING TILE.
 - A 2" C WITH PULL STRING FROM THE BACK WALL OF THE SECURITY CAMERA RACK TO THE TELECOM ROOM.
- CONTRACTOR SHALL PROVIDE RACEWAY SYSTEM, IT CONTRACTOR SHALL PROVIDE EQUIPMENT, CAMERAS, CABLING AND INSTALLATION.

WIRE LEGEND	
DESCRIPTION	PURPOSE
2 CONDUCTOR #18 AWG TWISTED/SHIELDED FPL	ADDRESSABLE LOOP
2 CONDUCTOR #14 AWG TWISTED	FOR CONNECTION TO HORN CIRCUITS
2 CONDUCTOR #18 AWG TWISTED/SHIELDED FPL	STROBES

VOLTAGE DROP NOTE

THE VOLTAGE DROP FOR ANY NOTIFICATION APPLIANCE DEVICE (NAC) SHALL NOT BE AS SUCH TO CAUSE THE VOLTAGE AT THE LAST DEVICE TO BE LESS THAN THE UL LISTED RANGE.

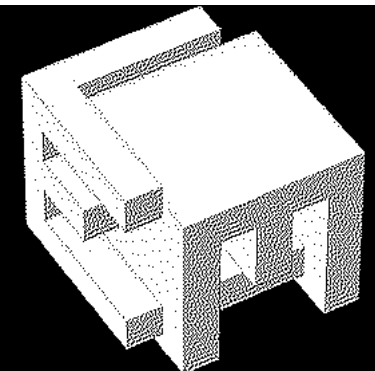
TYPE: PANELBOARD - SERVICE ENTRANCE RATED				DISTRIBUTION PANEL "DP" (REPLACED)				MAIN BUS: 1000 AMP			
SERVICE: 3PH, 4W, 60HZ, DELTA				FULLY RATED SHORT CIRCUIT RATING: 24,038 AMPS SYMM. @ 240 V. (U.L. LISTED)				NEUTRAL: 1000 AMP			
VOLTAGE: 120/240V								MAINS: MCB			
MOUNTING: SURFACE								LOCATION: BOTTOM			
	LOAD SERVED	VA PER PHASE			VOLTAGE	SUB-FEEDERS OR BRANCH CIRCUITS					REMARKS
		A	B	C		POLES	FRAME	TRIP	WIRE SIZE	COND.	
1	EXISTING GUTTER (PNLS A,B,C,D)	43,046	43,046	43,046	120/240	3	225	225	4#4/0 THWN	4"	
2	EXISTING PANEL 'AC'	42,360	42,360	42,360	120/240	3	400	400	4#600MCM	4"	
3	NEW PANEL 'EVS'	31,200	31,200	31,200	120/240	3	400	300	4#350MCM	3 1/2"	
4	SPACE				120/240	3					
5	SPACE	0	0	0	120/240	3					
6	SPD	0	0	0	120/240	3	60	60	(4)#10AWG+1-10AWG (G)	3/4"	
TOTAL VA/PHASE:		116,606	116,606	116,606	FEEDER: REFER TO FEEDER SCHEDULE						
TOTAL CONNECTED LOAD =		349,818 VA		843 AMPS							
NOTES: 1. PROVIDE GROUNDING BAR. 2. NEW PANEL SHALL BE NEMA 3R.											

TYPE: PANELBOARD				EXISTING PANEL 'AC'										MAIN BUS: 400 AMP			
SERVICE: 3PH, 4W, 60HZ				FULLY RATED EQUIPMENT SHORT CIRCUIT RATING:										NEUTRAL: 400 AMP			
VOLTAGE: 120 / 240 V				10000 AMPS SYMM. @ 240 V. (U.L. LISTED)										MAINS: LUGS ONLY			
MOUNTING: SURFACE														LOCATION: TOP			
CONNECTED LOAD VA	COND	WIRE SIZE	TRIP AMP	POLES	TYPE	LOAD DESCRIPTION AND REMARKS	CKT NO.	PHASE A B C	CKT NO.	LOAD DESCRIPTION AND REMARKS	TYPE	POLES	TRIP AMP	WIRE SIZE	COND	CONNECTED LOAD VA	
2208					N		-1	-A-+-	2-		N					2208	
2208	1 1/2	2	100	3-	N	PANEL AC1	-3	-+-B-+-	4-	PANEL AC3	N	-3	100	4	1 1/4	2208	
2208					N		-5	-+-C-+-	6-		N					2208	
2208					N		-7	-A-+-	8-		M					2000	
2208	1 1/2	2	100	3-	N	PANEL AC2	-9	-+-B-+-	10-	WATER PUMP	M	-3	30	10	3/4	2000	
2208					N		-11	-+-C-+-	12-		M					2000	
1000	3/4	12	20	1-	R	BMS CONTROL PANELS	-13	-A-+-	14-		A					1372	
0	3/4	12	20	1-		SPACE	-15	-+-B-+-	16-	AHU-4	A	-3	20	12	3/4	1372	
800	3/4	12	20	1-	R	GFCI RECEPTACLES	-17	-+-C-+-	18-		A					1372	
878					A		-19	-A-+-	20-		H					3750	
878	3/4	12	15	3-	A	AHU-5	-21	-+-B-+-	22-	DH-4	H	-1	20	12	3/4	3750	
878					A		-23	-+-C-+-	24-			-1	20	12	3/4	0	
3750	3/4	12	20	2-	H	DH-5	-25	-A-+-	26-	UV-1,2,3,4,5	H	-2	25	10	3/4	1890	
3750					H		-27	-+-B-+-	28-		H					1890	
0	3/4	12	20	1-			-29	-+-C-+-	30-			-1	20	12	3/4	0	
648					M		-31	-A-+-	32-			-1	20	12	3/4	0	
648	3/4	12	20	3-	M	SF-4.5	-33	-+-B-+-	34-			-1	20	12	3/4	0	
648					M		-35	-+-C-+-	36-			-1	20	12	3/4	0	
0	3/4	12	20	1-			-37	-A-+-	38-		A					25896	
0	3/4	12	20	1-			-39	-+-B-+-	40-	CHILLER	A	-3	300	350	3	25896	
0	3/4	12	20	1-			-41	-+-C-+-	42-		A					25896	
27126 = SUB-TOTAL																SUB-TOTAL = 105708	
CONNECTED LOAD PER PHASE				TYPE		LOADS		VA		DEMAND		NEC VA		PANELBOARD TOTAL CONNECTED LOAD (VA) = 132834			
47808 VA PHASE "A"				L		LIGHTING		0		1		0		PANELBOARD TOTAL CONNECTED AMPS = 320			
46808 VA PHASE "B"				R		RECEPTACLES		1800		(1)		1800		FEEDER _____: EXISTING			
38218 VA PHASE "C"				N		NON CONTINUOUS LOADS		19872		1		19872		FED FROM _____: PANEL 'DP'			
132834 VA: TOTAL				M		MOTORS		7944		1		7944		NOTES:			
				A		AIR CONDITIONING		84438		1		84438		(1) FIRST 10KVA AT 100% + REMAINDER OVER 10KVA AT 50%			
				H		HEATING		18780		1		18780		(2) LIGHT COLOR TEXT DENOTES EXISTING			
						SUB-TOTALS		114054				132834					
												6750		LESS SMALLEST A-CHEAT			
																TOTAL NEC VA: 126084	
																NEC AMPS= 304	

EXISTING PANEL "D"																	MAIN BUS: 200 AMP	
HALL																	NEUTRAL: 200 AMP	
FULLY RATED EQUIPMENT SHORT CIRCUIT RATING:																	MAINS: MCB	
10000 AMPS SYMM. @ 240 V. (U.L. LISTED)																	LOCATION: TOP	
CONNECTED LOAD VA	COND	WIRE SIZE	TRIP AMP	POLES	TYPE	LOAD DESCRIPTION AND REMARKS	CKT NO.	PHASE A B C	CKT NO.	LOAD DESCRIPTION AND REMARKS	TYPE	POLES	TRIP AMP	WIRE SIZE	COND	CONNECTED LOAD VA		
1200	3/4	12	20	1-	R	CIRCULATION DESK RECEPT	-1	-A-+-	2-	ADULT DEPT. RECEPTACLES	R	-1	20	12	3/4	1200		
1200	3/4	12	20	1-	R	ADULT DEPT. RECEPT	-3	-+-B-+-	4-	ADULT DEPT. RECEPTACLES	R	-1	20	12	3/4	1000		
1200	3/4	12	20	1-	R	RECEPTACLES HUDDLE RMS	-5	-A-+-	6-	RECEPTACLES HUDDLE RMS/MULTI	R	-1	20	12	3/4	1200		
1000	3/4	12	20	1-	R	RECEPT. MULTI-PURPOSE RMS	-7	-+-C-+-	8-	RECEPT. MULTI-PURPOSE RMS	R	-1	20	12	3/4	1200		
1000	3/4	12	20	1-	R	RECEPT. MULTI-PURPOSE RMS	-9	-A-+-	10-	RECEPT. MULTI-PURPOSE RMS	R	-1	20	12	3/4	1200		
1200	3/4	12	20	1-	R	RECEPT. MULTI-PURPOSE RMS	-11	-+-B-+-	12-	RECEPT. MULTI-PURPOSE RMS	R	-1	20	12	3/4	1200		
1200	3/4	12	20	1-	R	RECEPT. MULTI-PURPOSE RMS	-13	-+-C-+-	14-	RECEPT. MULTI-PURPOSE RMS	R	-1	20	12	3/4	1000		
1200	3/4	12	20	1-	R	RECEPT. MULTI-PURPOSE RMS	-15	-A-+-	16-	RECEPT. MULTI-PURPOSE RMS	R	-1	20	12	3/4	1200		
1200	3/4	12	20	1-	R	RECEPT. MULTI-PURPOSE RMS	-17	-+-B-+-	18-	PROJECTORS/SCREENS MULTI-PURPOSE RM	R	-1	20	12	3/4	1000		
1200	3/4	12	20	1-	R	YA DEPT RECEPTACLES	-19	-+-C-+-	20-	YA DEPT RECEPTACLES	R	-1	20	12	3/4	800		
1000	3/4	12	20	1-	R	YA DEPT RECEPTACLES	-21	-A-+-	22-	YA DEPT RECEPTACLES	R	-1	20	12	3/4	1200		
1200	3/4	12	20	1-	R	YA DEPT RECEPTACLES/CHILD. CRC DESK	-23	-+-B-+-	24-	YA DEPT DESK RECEPTACLES	R	-1	20	12	3/4	1000		
1000	3/4	12	20	1-	R	CHILDREN DEPT COMP RECEPTACLES	-25	-+-C-+-	26-	CHILDREN DEPT COMP RECEPTACLES	R	-1	20	12	3/4	800		
1200	3/4	12	20	1-	R	CHILDREN DEPT COMP RECEPTACLES	-27	-A-+-	28-	PRINTER	R	-1	20	12	3/4	1000		
1200	3/4	12	20	1-	R	CHILDREN DEPT COMP RECEPTACLES	-29	-+-B-+-	30-	CHILDREN DEPT RECEPTACLES	R	-1	20	12	3/4	1200		
1200	3/4	12	20	1-	R	CHILDREN DEPT COMP RECEPTACLES	-31	-+-C-+-	32-	CHILDREN DEPT RECEPTACLES	R	-1	20	12	3/4	1200		
1000	3/4	12	20	1-	R	PROJECTOR/TV/SCREEN	-33	-A-+-	34-	ADULT DEPT. COMP RECEPT.	R	-1	20	12	3/4	600		
1200	3/4	12	20	1-	R	CHILDREN DEPT RECEPTACLES	-35	-+-B-+-	36-	ADULT DEPT. COMP RECEPT.	R	-1	20	12	3/4	800		
0						SPACE	-37	-+-C-+-	38-	MOTORIZED DAMPERS	M	-1	20	12	3/4	200		
0						SPACE	-39	-A-+-	40-	SPARE	R	-1	20	12	3/4	0		
20600 = SUB-TOTAL																	SUB-TOTAL = 19200	
PROVIDE FULL CAPACITY FEED THRU LUGS TO SECTION 2																		
SECT 1 CONNECTED LOAD/PH																	PANELBOARD TOTAL CONNECTED LOAD (VA) = 39800	
19800 VA PHASE "A"																	PANELBOARD TOTAL CONNECTED AMPS = 166	
20000 VA PHASE "B"																	FEEDER REF. TO RISER	
39800 VA: TOTAL																		
																	NOTES:	
																	(1) FIRST 10KVA AT 100% + REMAINDER OVER 10KVA AT 50%	
																	(2) PROVIDE GROUNDING BAR KIT	



LOUIS J. AGUIRRE & ASSOCIATES P.A.
CONSULTING ENGINEERS
9150 SOUTH DADELAND BLVD. SUITE 900
MIAMI, FLORIDA 33156
TELEPHONE: (305) 670-0141
FAX: (305) 670-0144
www.ljagpa.com

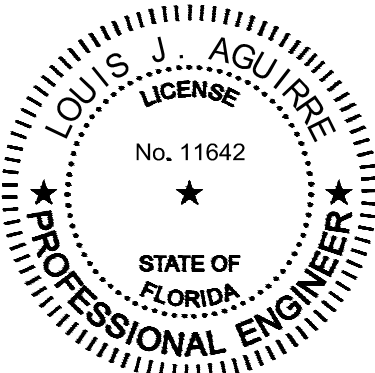


ELM ARCH

8950 SW 74TH Court
Suite 1204
Miami, FL 33156
786-391-2646

Qualifier: Erik Lloyd Myers
State of Florida: AR 93574

Sign & Seal: Louis J. Aguirre P.E.
State of Florida: License No. 11642



OWNER:

Miami Lakes Branch Library

6699 Windmill Gate Road
Miami Lakes, FL 33014

TIT Panel Schedules- Electrical

REVISION

DATE
04-03-2023

PROJECT NUMBER
19119

SHEET NUMBER

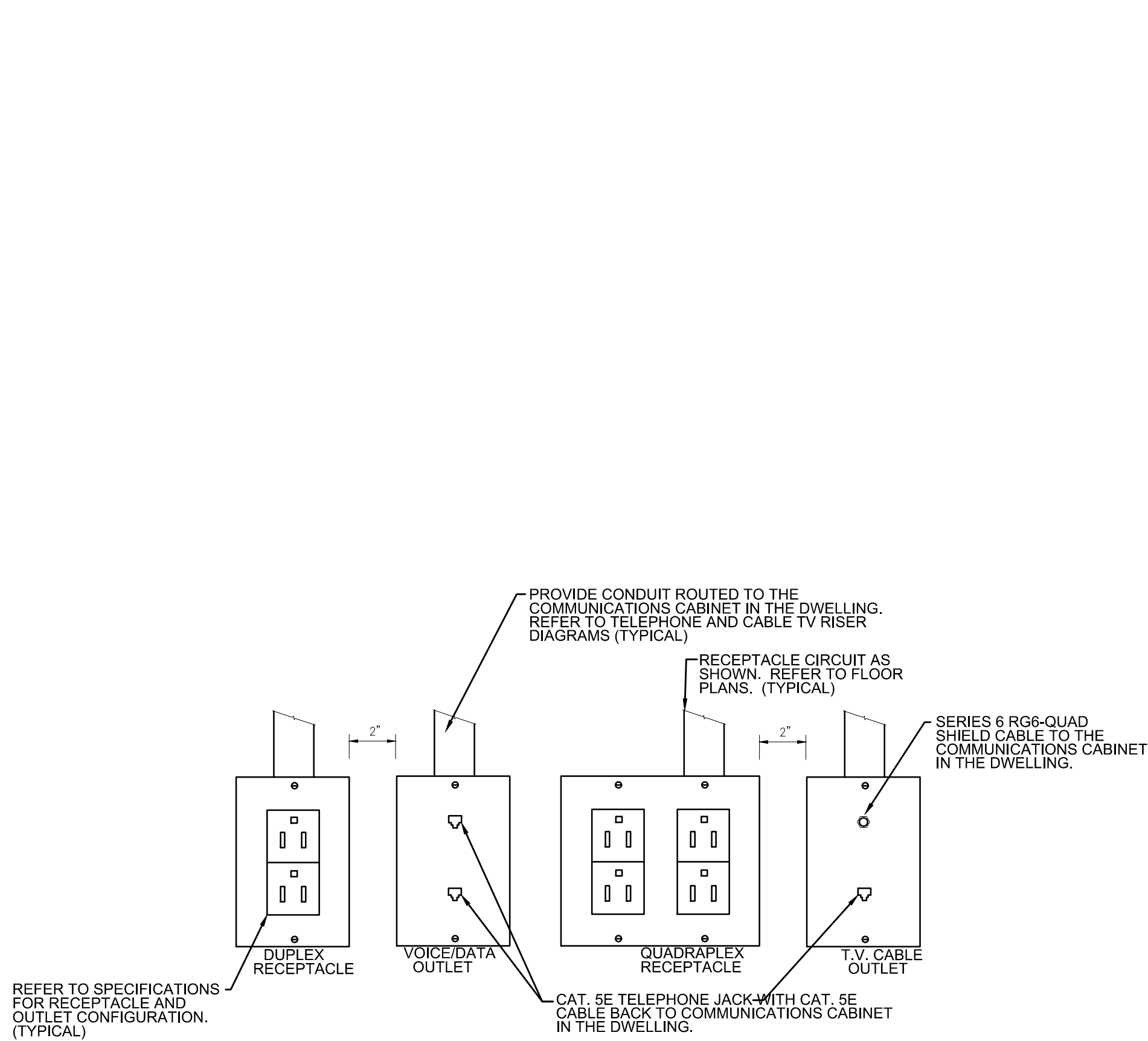
E6.1

OF

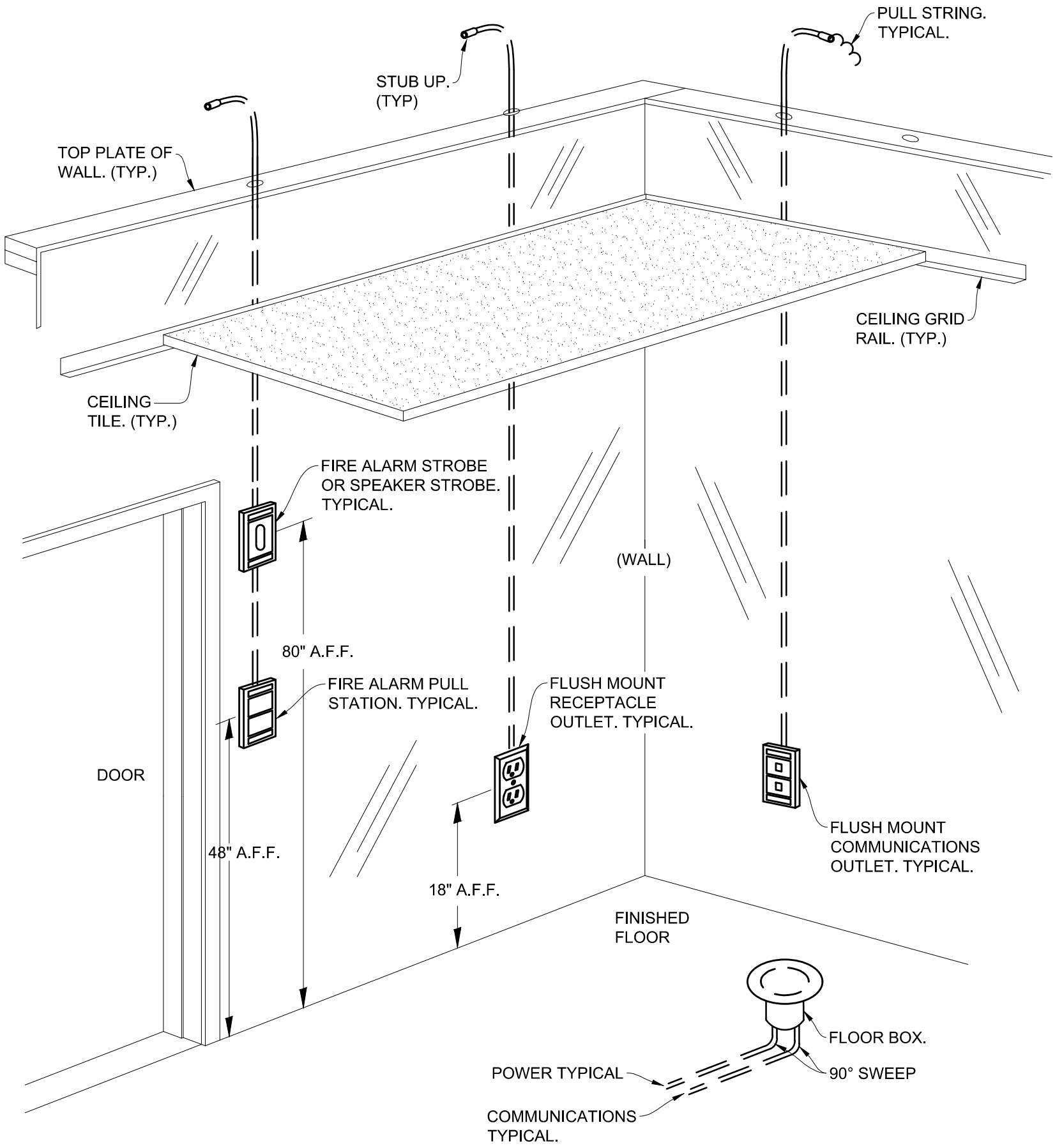
TYPE: PANELBOARD	EXISTING PANEL "AC1"										MAIN BUS: 250 AMP					
SERVICE: 3PH, 4W, 60HZ, DELTA	MECHANICAL ROOM										NEUTRAL: 250 AMP					
VOLTAGE: 120 / 240 V	FULLY RATED EQUIPMENT SHORT CIRCUIT RATING:										MAINS: MLO					
MOUNTING: SURFACE	10000 AMPS SYMM. @ 240 V. (U.L. LISTED)										LOCATION: TOP					
CONNECTED LOAD VA	COND	WIRE SIZE	TRIP AMP	POLES	TYPE	LOAD DESCRIPTION AND REMARKS	CKT NO.	PHASE A B C	CKT NO.	LOAD DESCRIPTION AND REMARKS	TYPE	POLES	TRIP AMP	WIRE SIZE	COND	CONNECTED LOAD VA
2000					A		-1	-A--+-	2-		H					2000
2000	3/4	10	30	3-	A	AHU-1	-3	+-B--	4-	DH-1	H	-3	80	4	1 1/4	2000
2000					A		-5	+-+-C-	6-		H					2000
166					M		-7	-A--+-	8-		R	-1	20	12	3/4	0
166	3/4	12	20	3-	M	SF-1	-9	+-B--	10-		R	-1	20	12	3/4	0
166					M		-11	+-+-C-	12-		R	-1	20	12	3/4	0
6498 = SUB-TOTAL																SUB-TOTAL = 6000
CONNECTED LOAD PER PHASE																
4166 VA PHASE "A"	TYPE	LOADS				VA	DEMAND				NEC VA	PANELBOARD TOTAL CONNECTED LOAD (VA) = 12498				
4166 VA PHASE "B"	L	LIGHTING				0	125.00%				0	PANELBOARD TOTAL CONNECTED AMPS = 30				
4166 VA PHASE "C"	R	RECEPTACLES				0	(1)				0	FEEDER.....: SEE E-500				
4166 VA PHASE "C"	C	CONTINUOUS LOADS				0	125.00%				0	FED FROM.....: MDP				
12498 VA: TOTAL	M	MOTORS				498	125.00%				623	NOTES:				
	A	AIR CONDITIONING				6000	100.00%				6000	(1) LIGHT COLOR TEXT DENOTES EXISTING.				
	H	HEATING				6000	100.00%				6000	(2) FIRST 10KVA AT 100% + REMAINDER OVER 10KVA AT 50%.				
	N	NON-CONTINUOUS LOADS				0	100.00%				0					
	G	GUEST ROOMS				0	50.00%				0					
	K	KITCHEN EQUIPT. OVER (6)				0	65.00%				0					
	SUB-TOTALS					12498					12623					
							LESS SMALLEST AC HEAT				6000					
							TOTAL NEC VA:				6623	NEC AMPS= 16				

TYPE: PANELBOARD					EXISTING PANEL "AC2"										MAIN BUS: 250 AMP				
SERVICE: 3PH, 4W, 60HZ, DELTA					MECHANICAL ROOM										NEUTRAL: 250 AMP				
VOLTAGE: 120 / 240 V					FULLY RATED EQUIPMENT SHORT CIRCUIT RATING:										MAINS: MLO				
MOUNTING: SURFACE					10000 AMPS SYMM. @ 240 V. (U.L. LISTED)										LOCATION: TOP				
CONNECTED LOAD VA	COND	WIRE SIZE	TRIP AMP	POLES	TYPE	LOAD DESCRIPTION AND REMARKS	CKT NO.	PHASE A B C	CKT NO.	LOAD DESCRIPTION AND REMARKS	TYPE	POLES	TRIP AMP	WIRE SIZE	COND	CONNECTED LOAD VA			
2000					A		-1	-A-+-	2-		H					2000			
2000	3/4	10	30	3-	A	AHU-2	-3	+-B-+	4-	DUCT HEATER#2	H	-3	80	4	1 1/4	2000			
2000					A		-5	+-+--	6-		H					2000			
166					M		-7	-A-+-	8-		R	-1	20	12	3/4	0			
166	3/4	12	20	3-	M	SF-2	-9	+-B-+	10-		R	-1	20	12	3/4	0			
166					M		-11	+-+--	12-		R	-1	20	12	3/4	0			
6498 = SUB-TOTAL																SUB-TOTAL = 6000			
CONNECTED LOAD PER PHASE																			
4166 VA PHASE "A"		TYPE		LOADS		VA		DEMAND		NEC VA		PANELBOARD TOTAL CONNECTED LOAD (VA) = 12498							
4166 VA PHASE "B"		L		LIGHTING		0		125.00%		0		PANELBOARD TOTAL CONNECTED AMPS = 30							
4166 VA PHASE "C"		R		RECEPTACLES		0		(1)		0		FEEDER.....: SEE E-500							
		C		CONTINUOUS LOADS		0		125.00%		0		FED FROM.....: MDP							
12498 VA: TOTAL		M		MOTORS		498		125.00%		623		NOTES:							
		A		AIR CONDITIONING		6000		100.00%		6000		(1) LIGHT COLOR TEXT DENOTES EXISTING.							
		H		HEATING		6000		100.00%		6000		(2) FIRST 10KVA AT 100% + REMAINDER OVER 10KVA AT 50%							
		N		NON-CONTINUOUS LOADS		0		100.00%		0									
		G		GUEST ROOMS		0		50.00%		0									
		K		KITCHEN EQUIPT. OVER (6)		0		65.00%		0									
				SUB-TOTALS		12498				12623									
				LESS SMALLEST AC HEAT						6000									
				TOTAL NEC VA:						6623		NEC AMPS= 16							

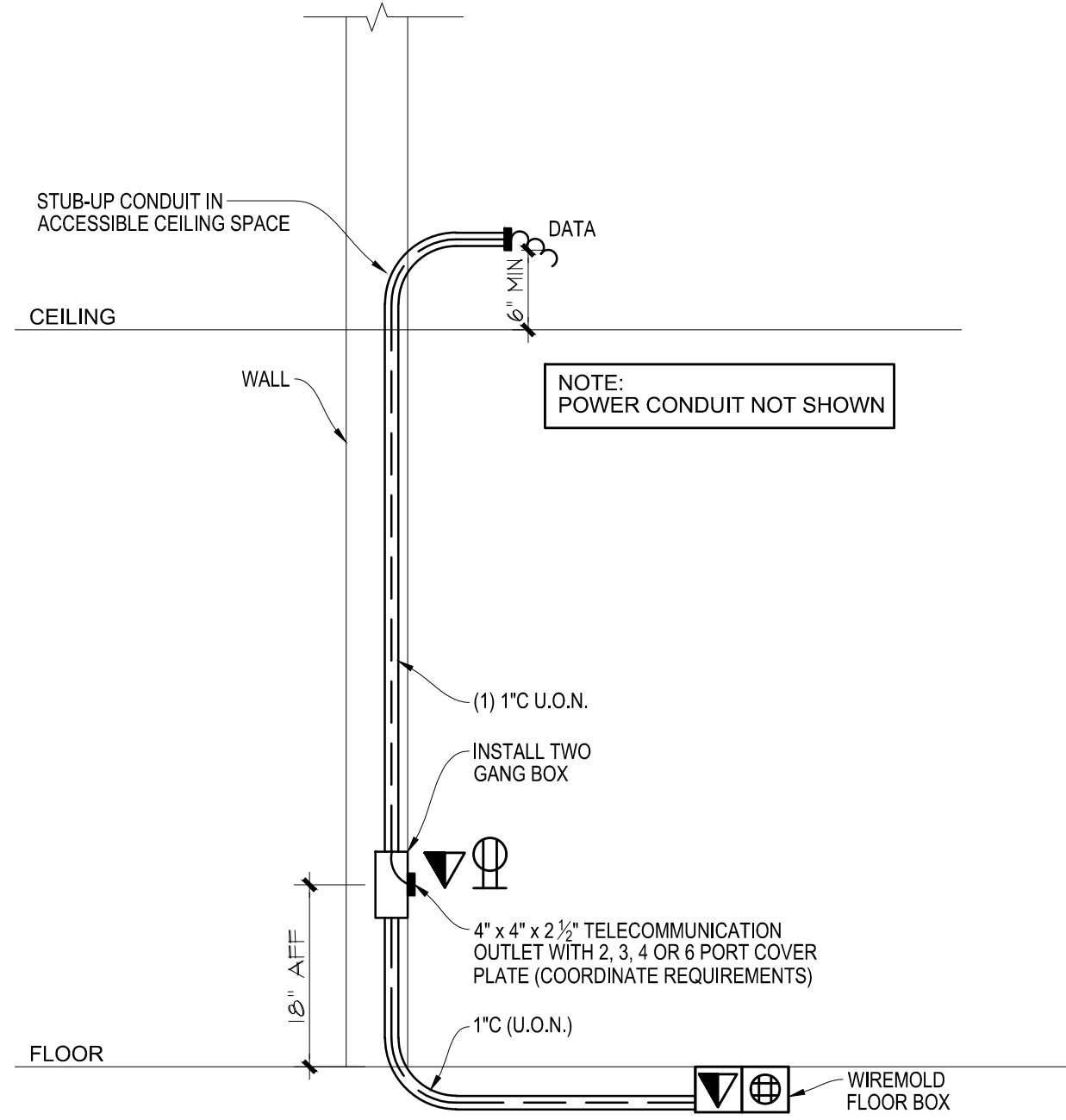
PANELBOARD				EXISTING PANEL "AC3"										MAIN BUS: 250 AMP			
SERVICE: 3PH, 4W, 60HZ, DELTA				MECHANICAL ROOM										NEUTRAL: 250 AMP			
VOLTAGE: 120 / 240 V				FULLY RATED EQUIPMENT SHORT CIRCUIT RATING:										MAINS: MLO			
MOUNTING: SURFACE				10000 AMPS SYMM. @ 240 V. (U.L. LISTED)										LOCATION: TOP			
CONNECTED LOAD VA	COND	WIRE SIZE	TRIP AMP	POLES	TYPE	LOAD DESCRIPTION AND REMARKS	CKT NO.	PHASE A B C	CKT NO.	LOAD DESCRIPTION AND REMARKS	TYPE	POLES	TRIP AMP	WIRE SIZE	COND	CONNECTED LOAD VA	
2000					A		-1	-A--+-	2-		H					2000	
2000	3/4	10	30	3-	A	AHU-3	-3	+-B--	4-	DH-3	H	-3	50	4	1 1/4	2000	
2000					A		-5	+-+-C-	6-		H					2000	
166					M		-7	-A--+-	8-		R	-1	20	12	3/4	0	
166	3/4	12	20	3-	M	SF-3	-9	+-B--	10-		R	-1	20	12	3/4	0	
166					M		-11	+-+-C-	12-		R	-1	20	12	3/4	0	
6498 = SUB-TOTAL																SUB-TOTAL = 6000	
CONNECTED LOAD PER PHASE																	
4166 VA PHASE "A"	TYPE	LOADS				VA	DEMAND				NEC VA	PANELBOARD TOTAL CONNECTED LOAD (VA) = 12498					
4166 VA PHASE "B"	L	LIGHTING				0	125.00%				0	PANELBOARD TOTAL CONNECTED AMPS = 30					
4166 VA PHASE "B"	R	RECEPTACLES				0	(1)				0	FEEDER: SEE E-500					
4166 VA PHASE "C"	C	CONTINUOUS LOADS				0	125.00%				0	FED FROM: MDP					
12498 VA TOTAL	M	MOTORS				498	125.00%				623	NOTES:					
	A	AIR CONDITIONING				6000	100.00%				6000	(1) LIGHT COLOR TEXT DENOTES EXISTING.					
	H	HEATING				6000	100.00%				6000	(2) FIRST 10KVA AT 100% + REMAINDER OVER 10KVA AT 50%					
	N	NON-CONTINUOUS LOADS				0	100.00%				0						
	G	GUEST ROOMS				0	50.00%				0						
	K	KITCHEN EQUIPT. OVER (6)				0	85.00%				0						
	SUB-TOTALS					12498					12623						
							LESS SMALLEST AC HEAT				6000						
										TOTAL NEC VA:	6623	NEC AMPS= 16					



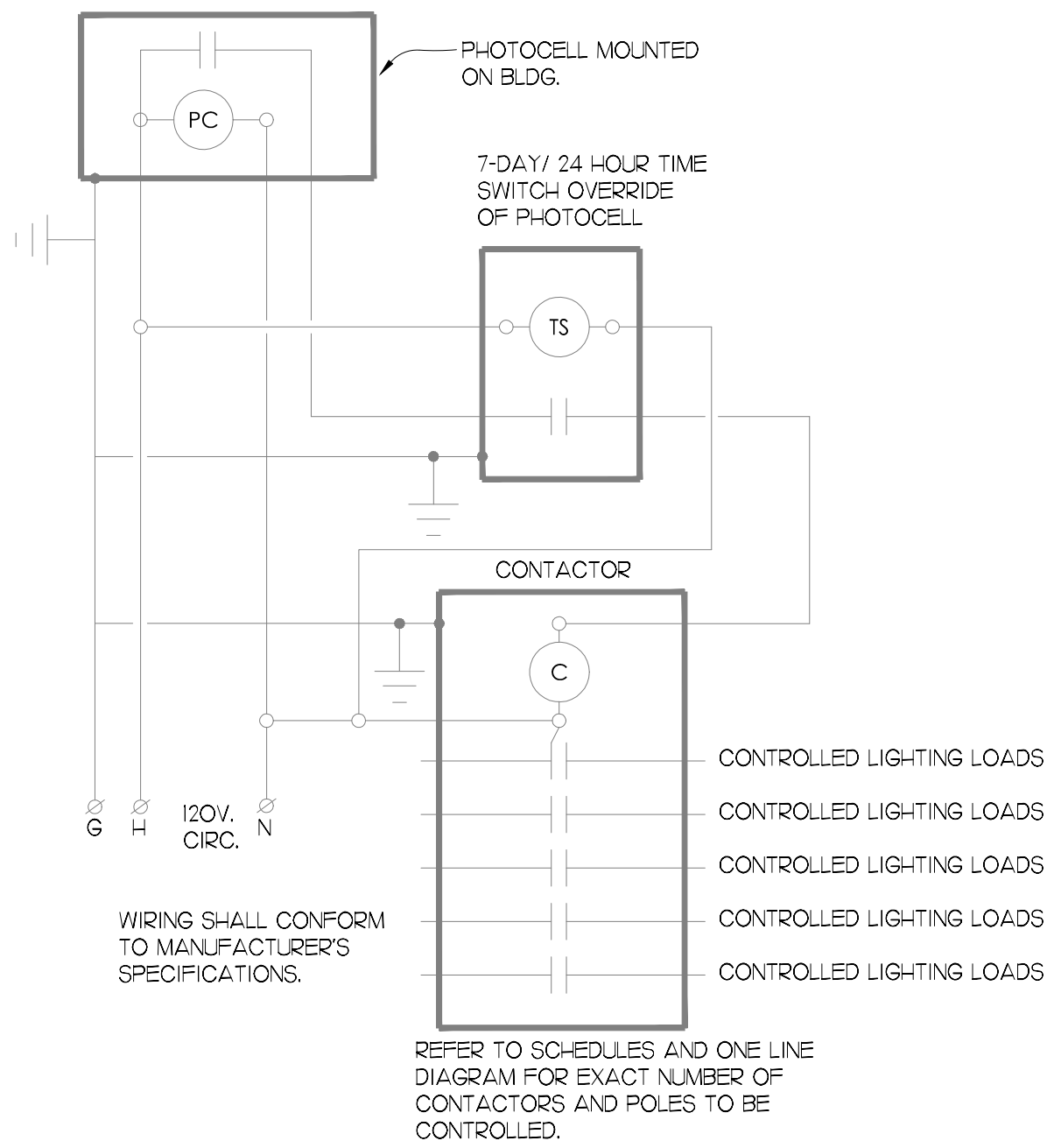
1 Voice/Data & TV outlet/Receptacles Mounting
Scale: NTS



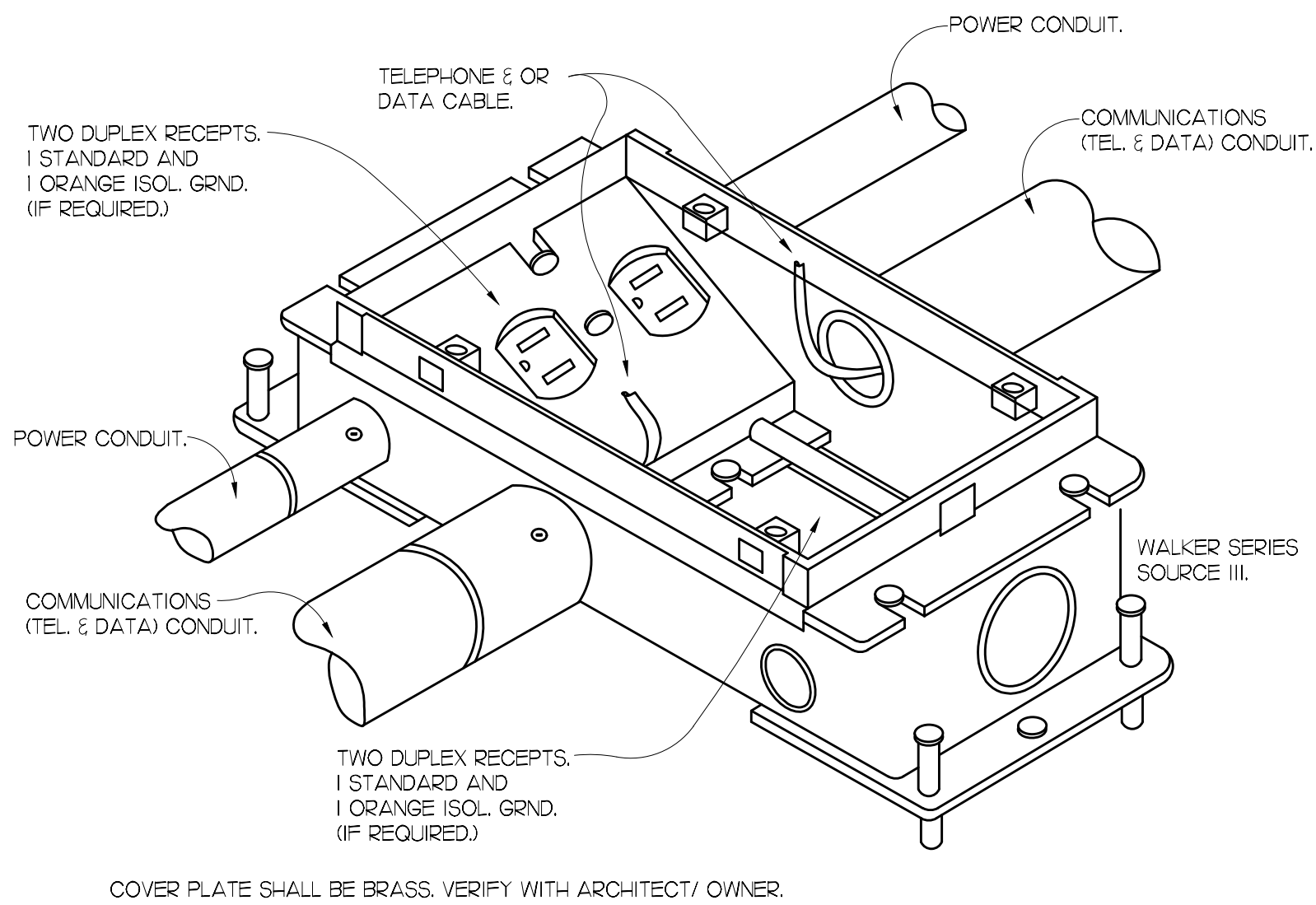
2 Typical Electrical Devices Rough-In Detail
Scale: NTS



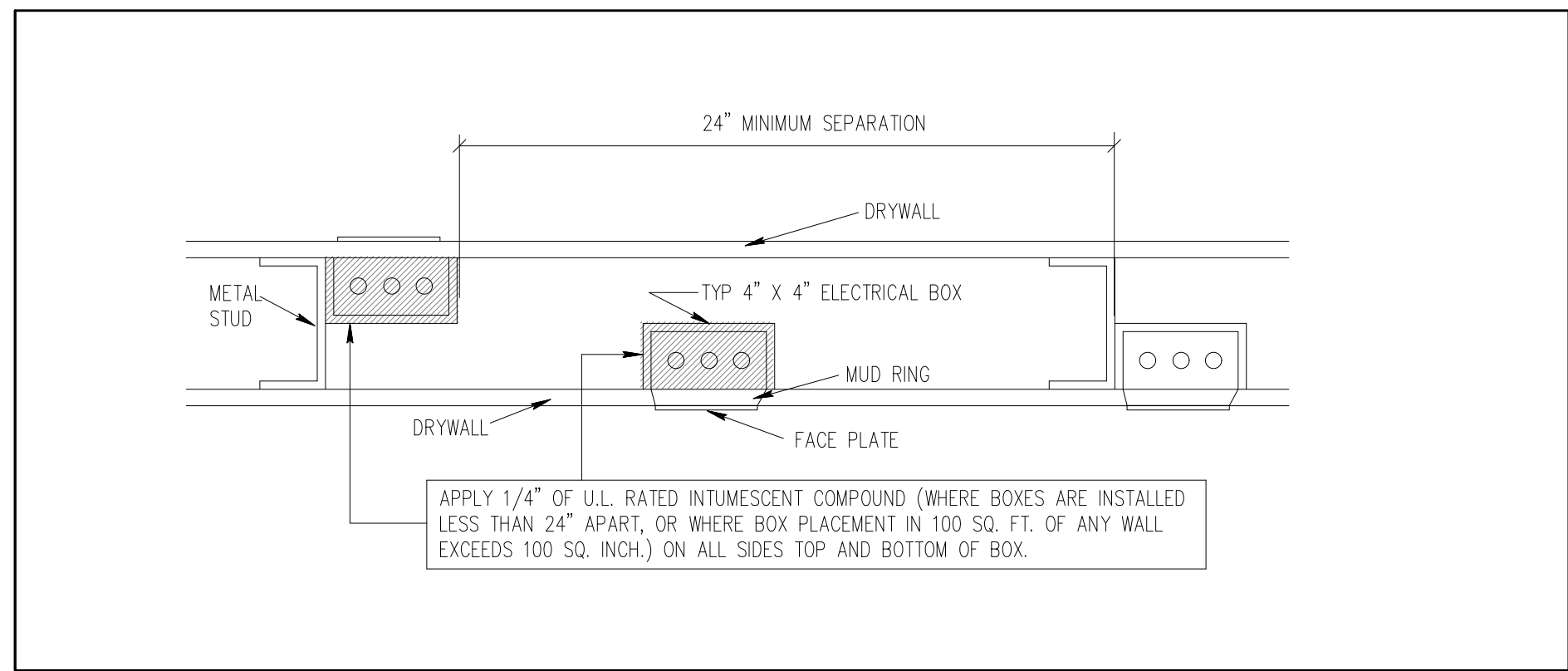
3 Detail of Typical Box/Conduit Layout
Scale: NTS



4 Photocell/Time Switch Control
Scale: NTS



5 Power/Tel/Data Floor Box Detail
Scale: NTS

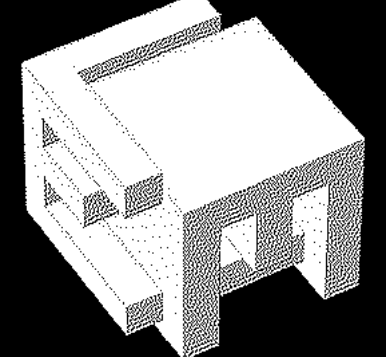


6 Elec. Box Back-To-Back Mtd in Rated Walls Detail
Scale: NTS

PROJ. No. 30056

CA 924

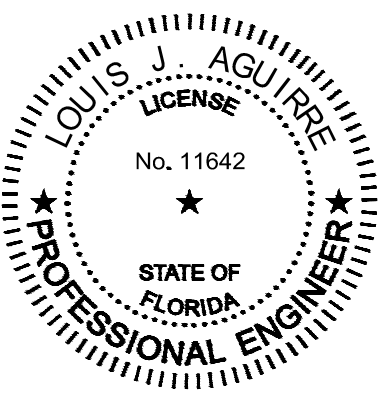
**LOUIS J. AGUIRRE & ASSOCIATES P.A.**
CONSULTING ENGINEERS
9150 SOUTH DADELAND BLVD. SUITE 900
MIAMI, FLORIDA 33156
TELEPHONE: (305) 670-0141
FAX: (305) 670-0144
www.ljaapa.com



ELM ARCH
8950 SW 74TH Court
Suite 1204
Miami, FL 33156
786-391-2646

Qualifier: Erik Lloyd Myers
State of Florida: AR 93574

Sign & Seal: Louis J. Aguirre P.E.
State of Florida: License No. 11642



OWNER:

Miami Lakes Branch Library

6699 Windmill Gate Road
Miami Lakes, FL 33014

TITLE: Details- Electrical

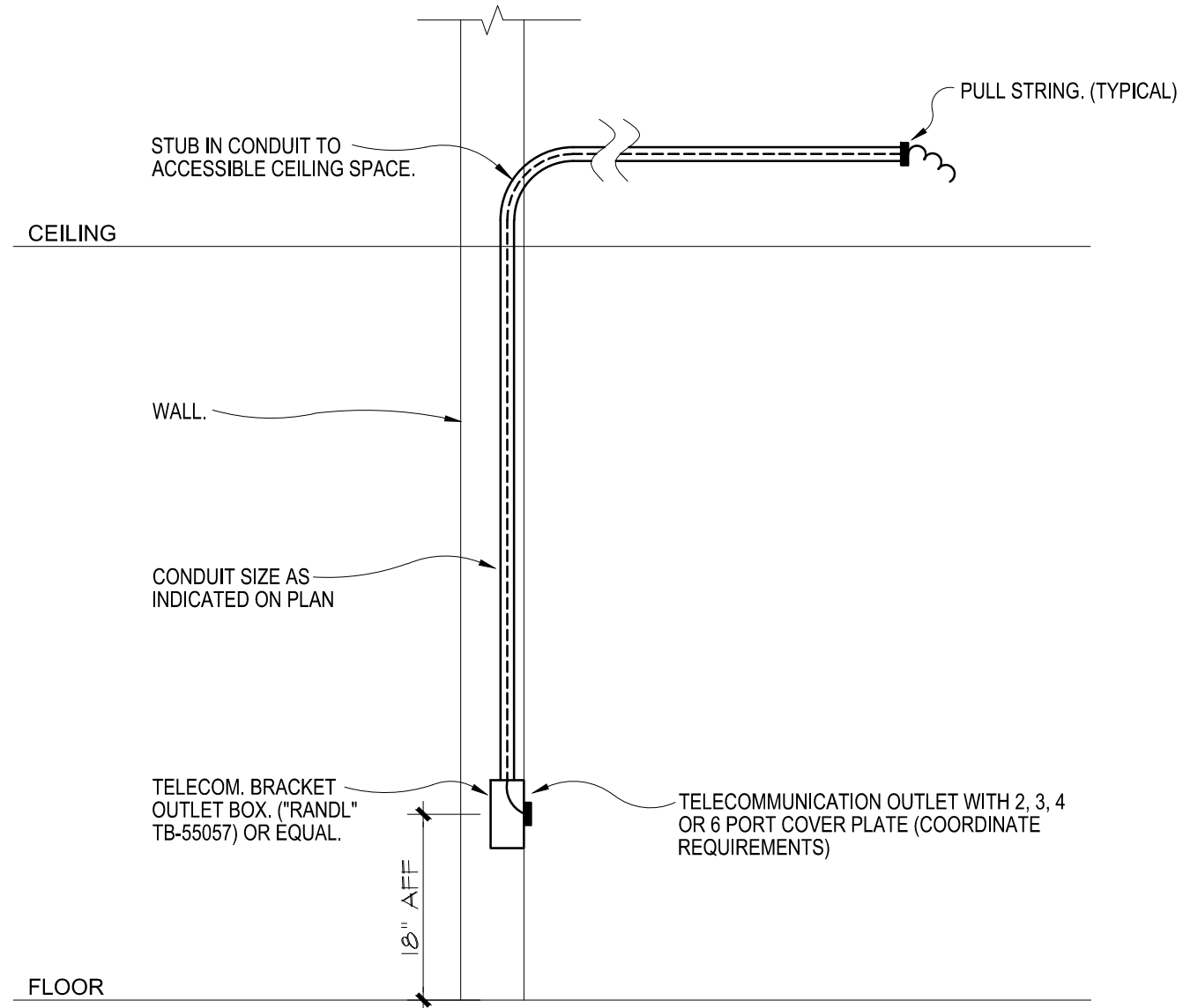
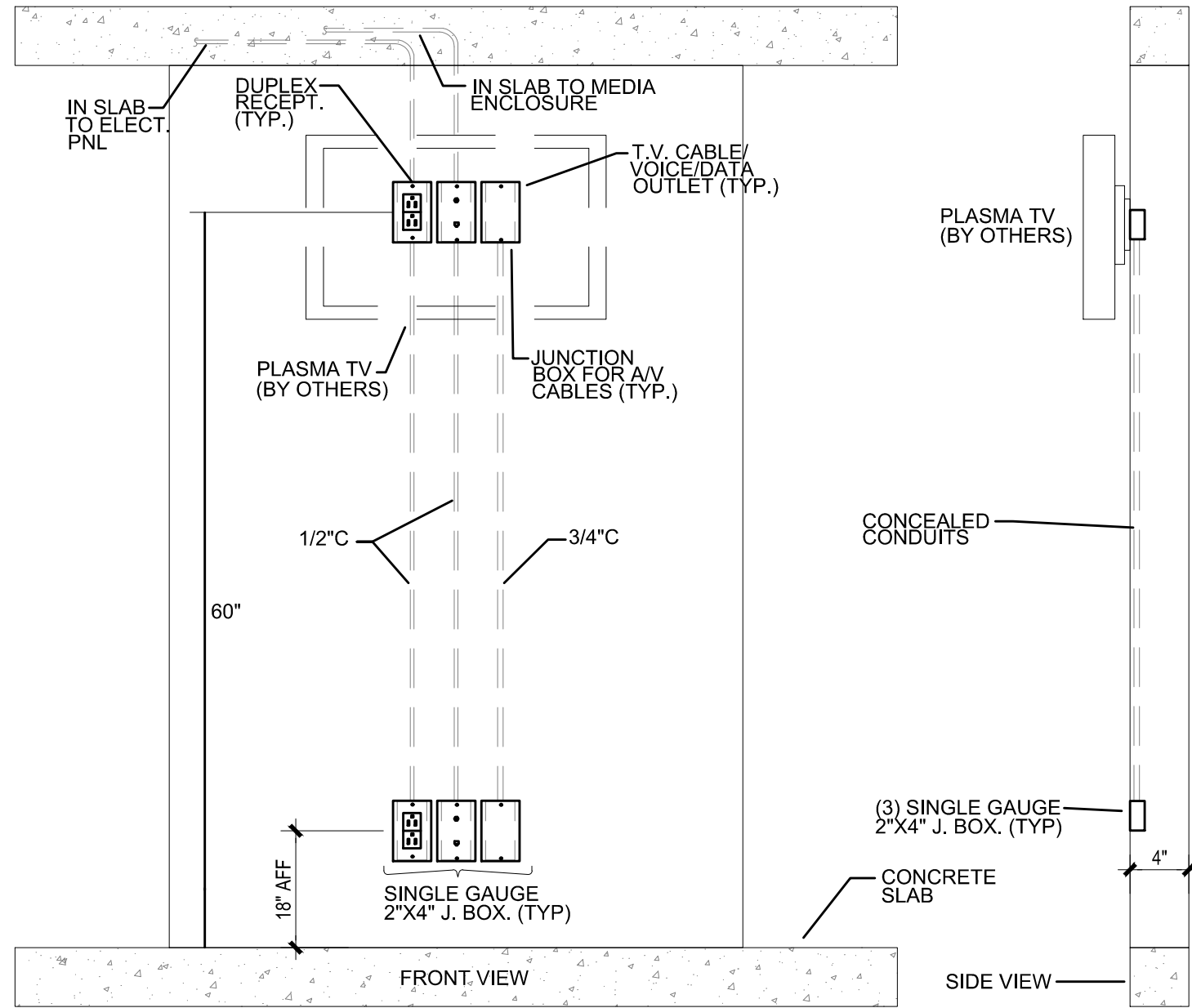
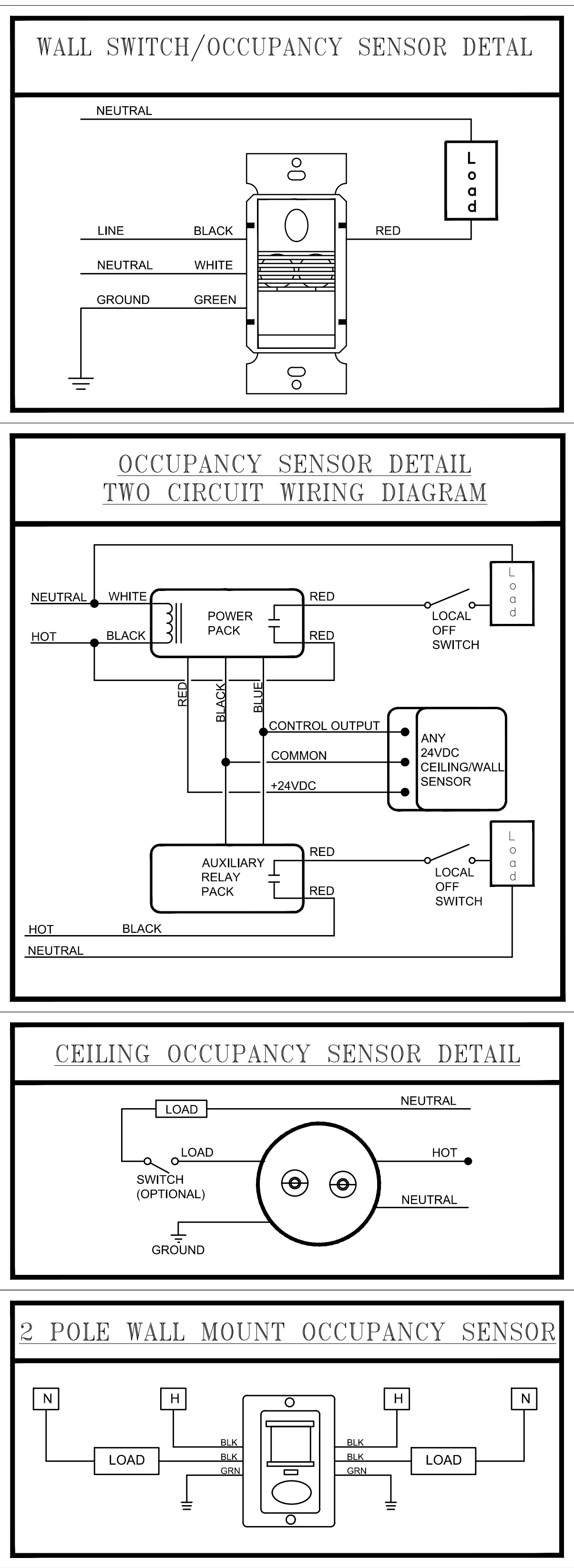
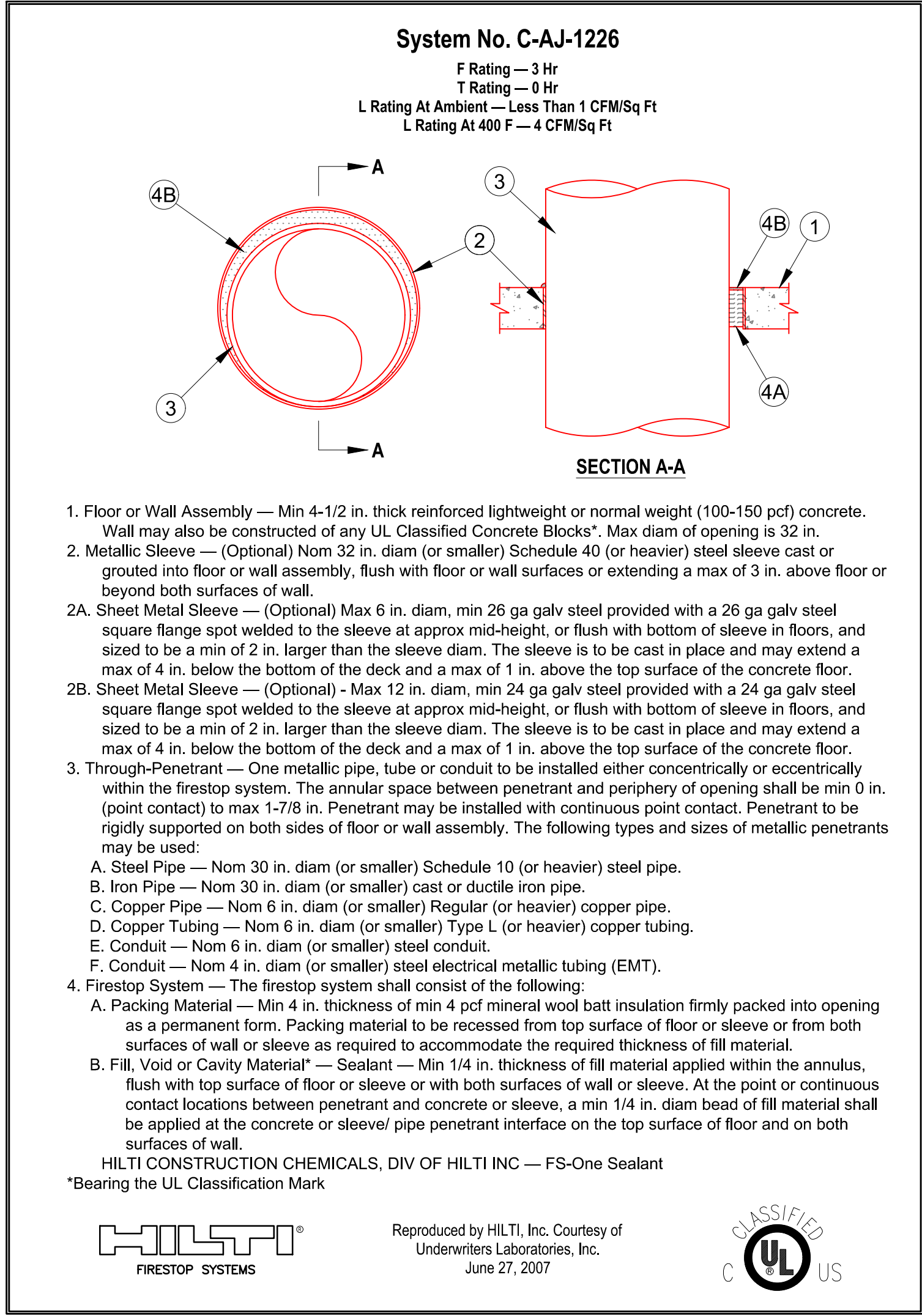
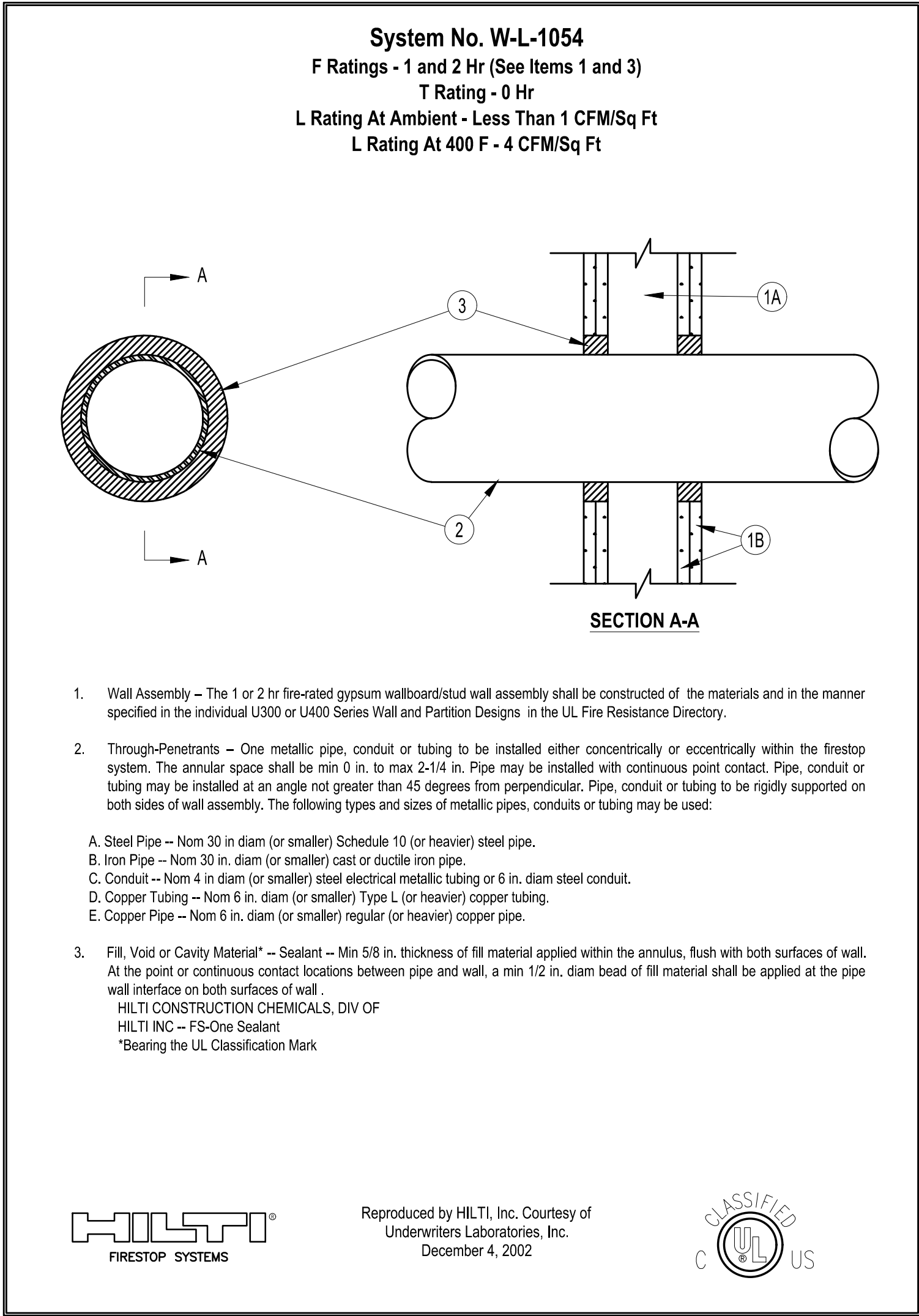
REVISION

DATE
04-03-2023
PROJECT NUMBER
19119

SHEET NUMBER

E7.0

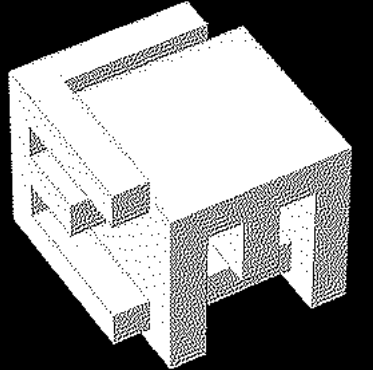
OF



2 Typical Tv Mounting Detail
 Scale: NTS

3 Typical Telecom Mounting Detail
 Scale: NTS

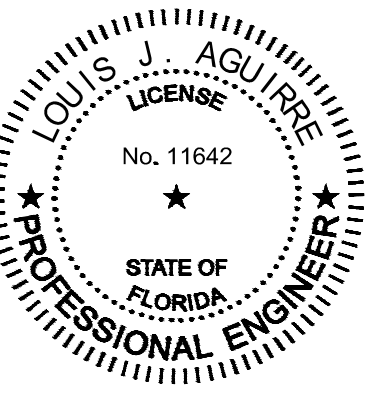
4 Occupancy Sensor Wiring Diagrams
 Scale: NTS



ELM ARCH
 8950 SW 74TH Court
 Suite 1204
 Miami, FL 33156
 786-391-2646

Qualifier: Erik Lloyd Myers
 State of Florida: AR 93574

Sign & Seal: Louis J. Aguirre P.E.
 State of Florida: License No. 11642



OWNER:

Miami Lakes Branch Library

6699 Windmill Gate Road
 Miami Lakes, FL 33014

TITLE: Details- Electrical

REVISION

DATE

04-03-2023

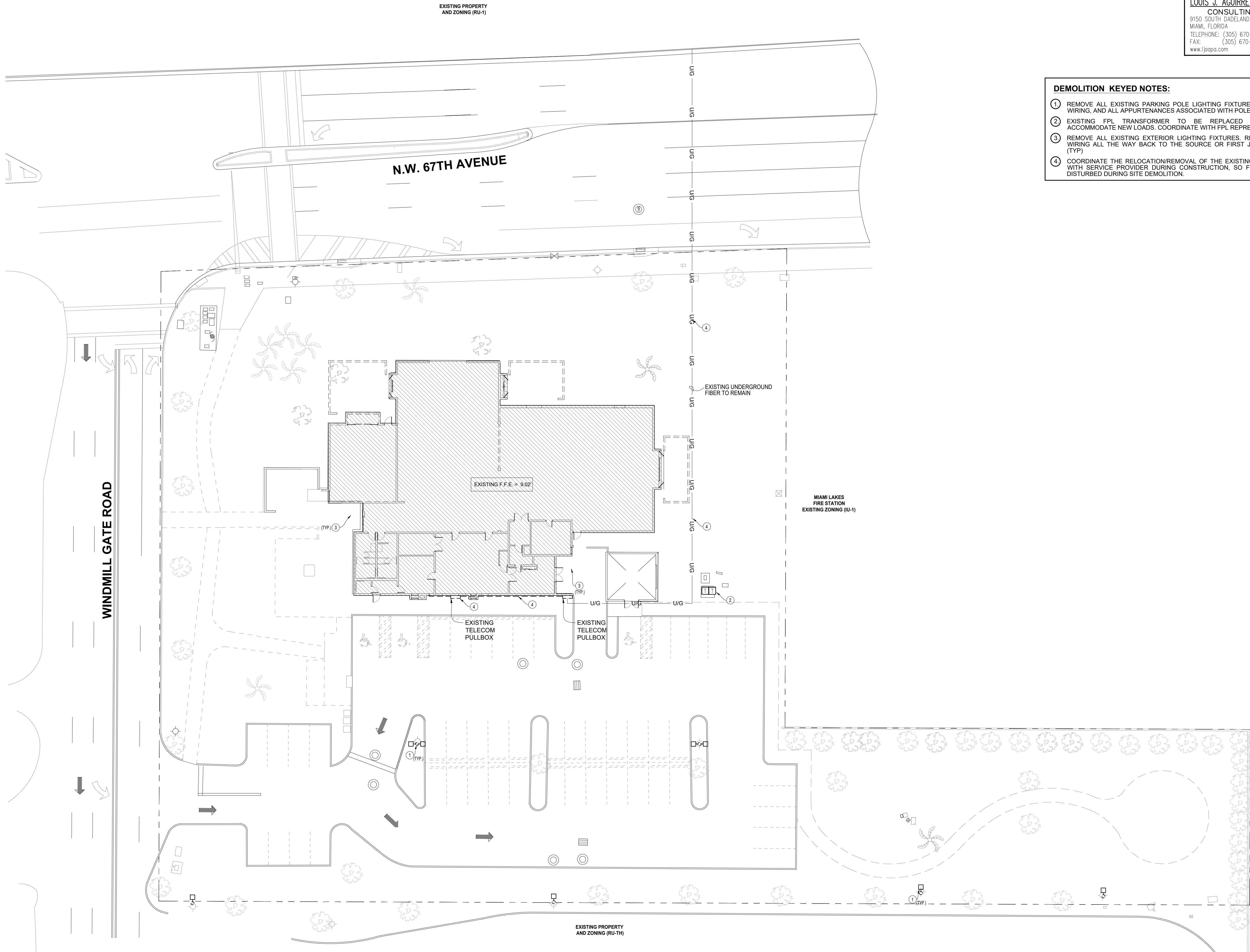
PROJECT NUMBER

19119

SHEET NUMBER

E7.1

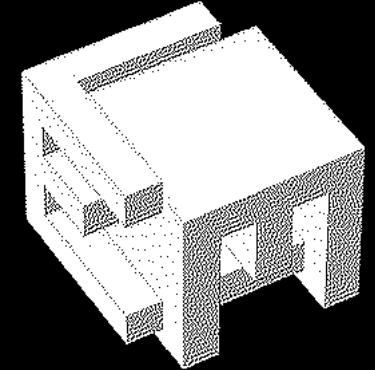
OF



PROJ. No. 30056 CA 924

LOUIS J. AGUIRRE & ASSOCIATES P.A.
CONSULTING ENGINEERS
9150 SOUTH DADELAND BLVD., SUITE 900
MIAMI, FLORIDA 33156
TELEPHONE: (305) 670-0141
FAX: (305) 670-0144
www.ljagpa.com

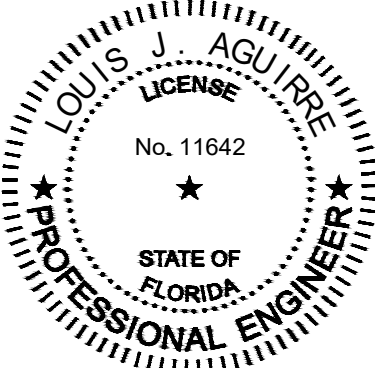
- DEMOLITION KEYED NOTES:**
- 1 REMOVE ALL EXISTING PARKING POLE LIGHTING FIXTURES. REMOVE CONDUIT, WIRING, AND ALL APPURTENANCES ASSOCIATED WITH POLE LIGHTS.
 - 2 EXISTING FPL TRANSFORMER TO BE REPLACED IF NECESSARY TO ACCOMMODATE NEW LOADS. COORDINATE WITH FPL REPRESENTATIVE.
 - 3 REMOVE ALL EXISTING EXTERIOR LIGHTING FIXTURES. REMOVE CONDUIT AND WIRING ALL THE WAY BACK TO THE SOURCE OR FIRST J-BOX ABOVE CEILING. (TYP)
 - 4 COORDINATE THE RELOCATION/REMOVAL OF THE EXISTING FIBER OPTIC CABLE WITH SERVICE PROVIDER DURING CONSTRUCTION, SO FIBER IS NOT CUT OR DISTURBED DURING SITE DEMOLITION.



ELM ARCH
8950 SW 74TH Court
Suite 1204
Miami, FL 33156
786-391-2646

Qualifier: Erik Lloyd Myers
State of Florida: AR 93574

Sign & Seal: Louis J. Aguirre P.E.
State of Florida: License No. 11642



OWNER:

Miami Lakes Branch Library

6689 Windmill Gate Road
Miami Lakes, FL 33014

TITLE: Site Plan - Demolition - Electrical

REVISION

DATE
04-03-2023

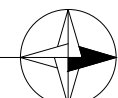
PROJECT NUMBER
19119

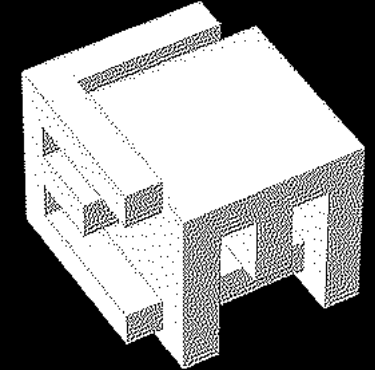
SHEET NUMBER

ED1.0

OF

1 Site Plan - Demolition - Electrical
ED1.0 Scale: 1" = 20'-0"



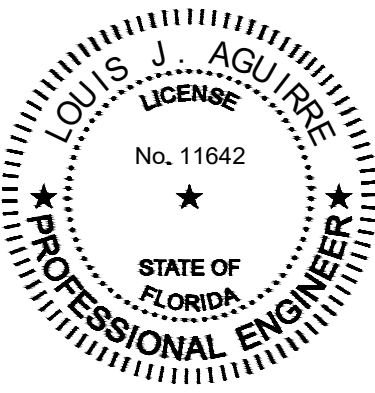


ELM ARCH

8950 SW 74TH Court
Suite 1204
Miami, FL 33156
786-391-2646

Qualifier: Erik Lloyd Myers
State of Florida: AR 93574

Sign & Seal: Louis J. Aguirre P.E.
State of Florida: License No. 11642

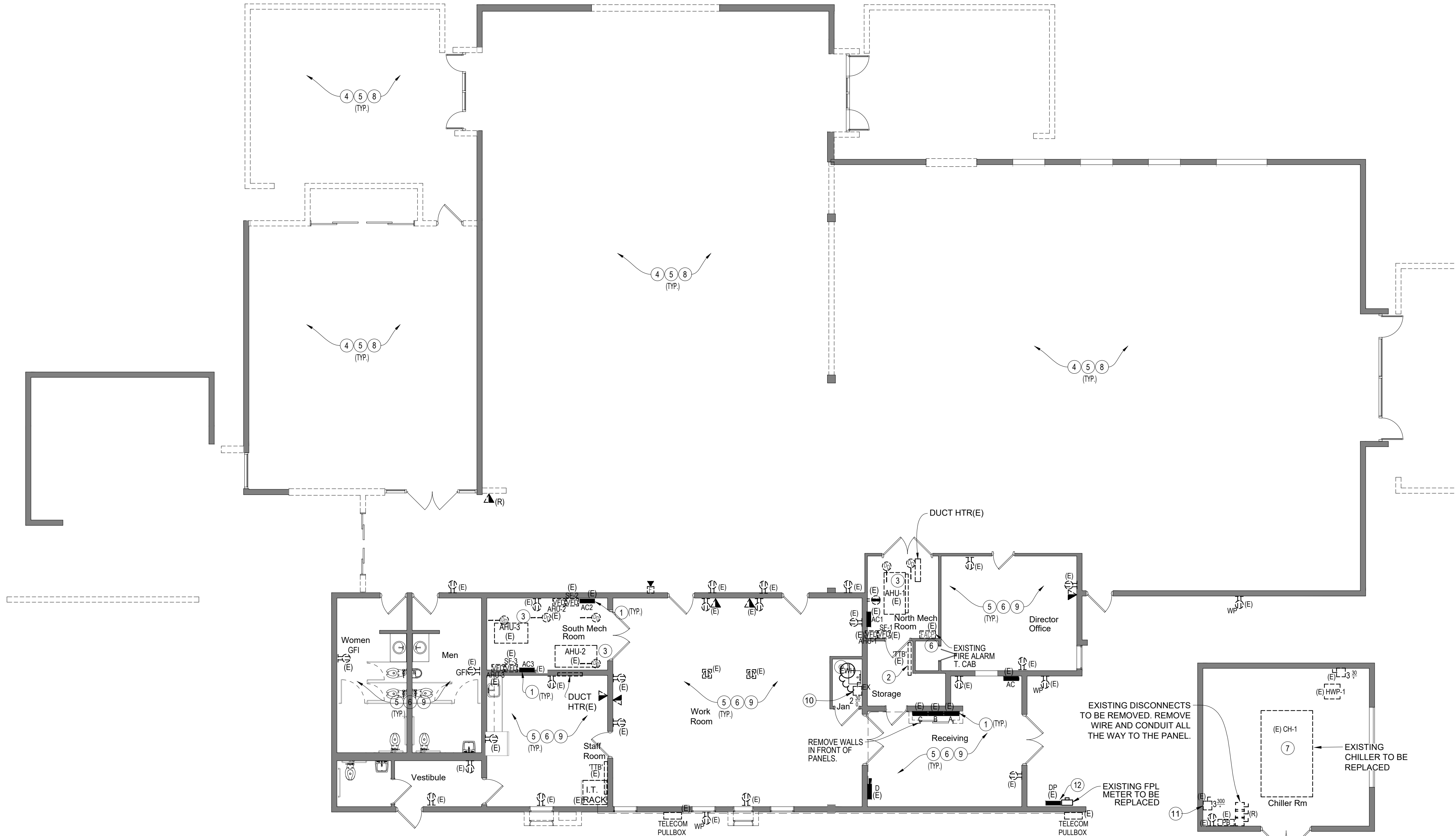


OWNER:

Miami Lakes Branch Library

6689 Windmill Gate Road
Miami Lakes, FL 33014

TITLE: Floor Plan - Demolition - Electrical



1 Floor Plan - Demolition - Electrical
ED3.0 Scale: 1/8" = 1'-0"

DEMOLITION NOTES:

- EXISTING PANELS TO REMAIN. PROVIDE NEW BREAKERS AND CIRCUITS AS SHOWN ON PANEL SCHEDULES.
- EXISTING TELEPHONE BACKBOARD AND ASSOCIATED WIRING TO REMAIN.
- EXISTING A/C UNITS IN MECHANICAL ROOMS TO REMAIN. ELECTRICAL CONTRACTOR TO VERIFY EXISTING ELECTRICAL CIRCUIT, BREAKER, AND WIRE SIZE IN EXISTING PANEL AND COORDINATE WITH MECHANICAL CONTRACTOR.
- EXISTING RECEPTACLES AND ASSOCIATED CONDUITS/WIRING SHALL BE REMOVED ALL THE WAY BACK TO PANEL, UNLESS NOTED OTHERWISE.
- ALL EXISTING LIGHTING IN SPACE SHALL BE REMOVED INCLUDING J-BOXES, PIG TAILS, CONDUIT, WIRING, AND ASSOCIATED LIGHT SWITCHES.
- BUILDING FIRE ALARM SYSTEM SHALL BE IN OPERATION AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR SHALL PROTECT EXISTING DEVICES AND WIRING AS NECESSARY.
- EXISTING CHILLER TO BE REPLACED. REFER TO E3.1 AND PANEL SCHEDULE FOR MORE INFORMATION.
- EXISTING FIRE ALARM DEVICES TO BE REPLACED WITH NEW AS SHOWN ON NEW PLAN E3.2.
- ALL EXISTING RECEPTACLES OR DEVICES TO BE REMAIN IN THIS ROOM.
- EXISTING WATER HEATER TO BE REPLACED. DISCONNECT EXISTING CIRCUIT AND RECONNECT ONCE NEW WATER HEATER HAS BEEN INSTALLED. RE-USE EXISTING DISCONNECT SWITCH.
- EXISTING DISCONNECT FOR CHILLER TO REMAIN. DISCONNECT FROM EXISTING CHILLER AND RECONNECT WHEN NEW CHILLER IS INSTALLED.
- EXISTING PANEL 'DP' TO BE REPLACED. REFER TO RISER AND PANEL SCHEDULE FOR DETAILS.

DEMOLITION NOTES:

- ALL WORK HEREIN DESCRIBED AND SHOWN ON DRAWINGS AND REQUIRED TO MAKE PROJECT COMPLETE IN EVERY ASPECT, PLUS ANY AND ALL PATCHING NECESSARY SHALL BE DONE TO THE COMPLETE SATISFACTION OF THE ARCHITECT / ENGINEER AND / OR OWNER AND SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. ALL MATERIALS SHALL MATCH EXISTING WHERE APPLICABLE AND ALL CONSTRUCTION AND ALTERATION LEFT IN NEW CONDITION.
- ALL ITEMS TO BE REMOVED SHALL BE REMOVED WITH UTMOST CARE AND WITHOUT DAMAGE, AND THOSE ITEMS NOT DESIGNATED TO BE REUSED SHALL BE DELIVERED TO THE OWNER OR DISPOSED OF AS PER HIS WRITTEN INSTRUCTIONS.
- ALL ALTERATIONS, DEMOLITION AND REMOVAL, CUTTING AND PATCHING AND OTHER WORK NECESSARY FOR CONSTRUCTION OF THIS CONTRACT SHALL BE PERFORMED WITHOUT ADDITIONAL COST TO THE OWNER. THIS SHALL INCLUDE REMOVAL, REROUTING, ETC. OF ALL ELECTRICAL ITEMS REQUIRED TO COMPLETE INSTALLATION INTENDED.
- PATCH OR REPLACE ALL DAMAGED FLOOR, WALL, CEILING, ETC. SURFACES ALTERED TO ACCOMMODATE THE NEW CONSTRUCTION. PATCHED SURFACES SHALL MATCH EXISTING ADJACENT SPACES.
- ALL CUTTING, PATCHING, DEMOLITION, REPAIRING, REPLACING, ETC. NECESSARY UNDER THIS CONTRACT WILL BE COORDINATED BY THE GENERAL CONTRACTOR. WHERE APPLICABLE COORDINATE WORK WITH UTILITY COMPANIES. LOCAL AND STATE AUTHORITIES HAVING JURISDICTION, OWNERS REPRESENTATIVE AND ALL APPLICABLE CODES.
- WHERE ALTERATIONS TAKE PLACE IN OCCUPIED AREAS, CONTRACTOR SHALL CLEAN UP DAILY AND NOISE SHALL BE KEPT TO A MINIMUM.
- NONE OF THE SERVICES TO EXISTING BUILDINGS SHALL BE DISRUPTED IN ANY WAY EXCEPT WITH THE WRITTEN PERMISSION OF THE OWNER.
- ALL EQUIPMENT PRESENTLY "HOT" AND REQUIRED TO BE MAINTAINED SHALL BE RETURNED TO THIS CONDITION AFTER PERFORMING THE CHANGES TO EXISTING BUILDING. REROUTE CONDUITS AND EXTEND OR REPLACE CIRCUITS AS REQUIRED. PERFORM WORK AT CONVENIENCE OF OWNER.
- WHERE DEVICES ARE SHOWN TO BE REMOVED ON PLANS, REMOVE ALL ASSOCIATED WIRING AND CONDUIT BACK TO THE SOURCE OR MAINTAIN CONTINUITY OF THE CIRCUIT IF OTHER LOADS ARE SERVED FROM THE SAME CIRCUIT. CONSOLIDATE PARTIALLY LOADED CONVENIENCE RECEPTACLE CIRCUITS TO MAXIMIZE SPACE MADE AVAILABLE AT THE PANEL BOARD. TRACE CONSOLIDATED CIRCUITS TO VERIFY THAT THE TOTAL LOAD DOES NOT EXCEED 1920 VOLT AMPERES.
- THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGE TO EXISTING BUILDING AND TO CONTENTS THEREOF INCLUDING MACHINERY, FURNITURE, EQUIPMENT, ETC. AND DAMAGED TO BUILDINGS OR CONTENTS THEREOF DUE TO CONTRACTOR OPERATIONS, SHALL BE REPAIRED OR REPLACED AT DIRECTION OF ARCHITECT/ENGINEER, AND / OR OWNER, THE CONTRACTOR, AT NO EXTRA COST TO THE OWNER.
- CONNECTION TO EXISTING STRUCTURES OR SYSTEMS SHALL BE MADE IN SUCH A MANNER THAT AS LITTLE TIME AS ABSOLUTELY POSSIBLE WILL BE TAKEN, AND CONTRACTOR WILL BE REQUIRED TO COORDINATE FULLY WITH OWNER IN CONNECTION WITH CONVENIENCE AND SAFETY OF ALL PERSONS INVOLVED, INCLUDING EMPLOYEES.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH OWNER TO DETERMINE OWNER'S REQUIREMENTS REGARDING ACCESS, TIME OF WORK, PROTECTION OF EXISTING CONDITIONS, ETC.

REVISION

DATE
04-03-2023

PROJECT NUMBER
19119

SHEET NUMBER

ED3.0

OF