

TVEC TELEVISION EQUIPMENT CABINET

BR BEAM DETECTOR, RECEIVER

BT BEAM DETECTOR, TRANSMITTER

THERMAL DETECTOR, FIXED TEMP.

D SMOKE DETECTOR - IONIZATION

IR FLAME DETECTOR - INFRARED

UV FLAME DETECTOR - UV

F MANUAL PULL STATION

CE CONTROL ELEMENT

RR CONTROL RELAY

RT REMOTE TEST INDICATOR

FIRE SPRINKLER SOLENOID VALVE

FSD FIRE SMOKE DAMPER

GAS SOLENOID VALVE

H MAGNETIC DOOR RELEASE

FS FLOW SWITCH (FIRE SPRINKLER)

TS TAMPER SWITCH (VALVE SUPERVISION)

SDH DOOR HOLDER/CLOSER WITH INTEGRAL SMOKE DETECTOR

CO CARBON MONOXIDE DETECTOR

SD SYSTEM SMOKE DETECTOR - PHOTO

FIRE ALARM SYSTEM

NOTE:
(D) DENOTES DUCT MOUNTED
(C) DENOTES CEILING MOUNTED
(F) DENOTES FLUSH WALL MOUNTED
(UF) DENOTES UNDER FLOOR ACCESS
(WP) DENOTES WEATHERPROTECTED

FD THERMAL DETECTOR, FIXED + RATE-OF-RISE

SMOKE ALARM - NON-SYSTEM, 120V (PROVIDE WITH BATTERY BACK-UP)

KIB KNOX BOX, MOUNTED AT 7'-0" AFG OR @ HEIGHT INDICATED ON FLOOR PLAN.

(WPG) DUPLEX GFCI WEATHER RESISTANT RECEPTACLE, WITH WHILE-IN-USE WEATHERPROOF COVER.
(CR) CONTROLLED RECEPTACLE.

DUPLEX RECEPTACLE, MOUNT 4" ABOVE COUNTER OR BACKSPLASH, MAXIMUM 48" TO CENTER.

OUADRAPLEX RECEPTACLE, MOUNT 4" ABOVE COUNTER OR BACKSPLASH.
MAXIMUM 48" TO CENTER.

DUPLEX RECEPTACLE FLUSH MOUNTED IN CEILING HALF SWITCHED

DEVICE ON EMERGENCY CIRCUIT (VERIFY BRANCH OF ESSENTIAL ELECTRICAL SYSTEM WITH DRAWINGS)

COMBINATION DATA/TELEPHONE AND DUPLEX RECEPTACLE. MOUNTED IN CAST IRON OR STAINLESS STEEL FLOOR BOX. REFER TO POWER/SYSTEMS FLOOR PLAN FOR EXACT TYPE FLOOR BOX

SURFACE RACEWAY, PROVIDE WIREMOLD G-3000 SERIES UNLESS OTHERWISE NOTED. RECEPTACLES SHALL BE 24" ON CENTER WITH MULTIPLE CIRCUITS, SO AS NO CONSECUTIVE RECEPTACLES ARE ON THE SAME BRANCH CIRCUIT.

5-20R SPECIAL OUTLET, SUBSCRIPT INDICATES NEMA CONFIGURATION NUMBER

SIMPLEX RECEPTACLE FLUSH MOUNTED IN CEILING

(2D) ELECTRICAL CONNECTION FOR HYAC EQUIPMENT MOUNTED ABOVE CEILING
(VAY) ELECTRICAL CONNECTION FOR HYAC EQUIPMENT MOUNTED ABOVE CEILING
(VVT) ELECTRICAL CONNECTION FOR HYAC EQUIPMENT MOUNTED ABOVE CEILING

QUADRAPLEX RECEPTACLE IN TWO GANG BOX COVER.

DUPLEX RECEPTACLE IN FLOOR BOX.

DUPLEX RECEPTACLE SPLIT WIRED

DUPLEX RECEPTACLE TOP HALF SWITCHED

DUPLEX RECEPTACLE FLUSH MOUNTED IN CEILING

# T POWER COMPANY TRANSFORMER - UNLESS NOTED PARKING LOT OR ROADWAY HID FIXTURE - NORMAL POWER PARKING LOT OR ROADWAY HID FIXTURE – EMERGENCY POWER (VERIFY BRANCH OF ESSENTIAL ELECTRICAL SYSTEM WITH DRAWINGS)

P/T	POTENCIAL TRANSFORMER
R	RECESSED
SCA Surf	SHORT CIRCUIT AMPERES SURFACE
TEL	TELEPHONE
UG UNIV	UNDERGROUND UNIVERSAL
UNO	UNLESS NOTED OTHERWISE
٧	VOLTS
WPG WP	WATTS WEATHERPROOF WEATHERPROOF WITH GROUND FAULT INTERRUPT
XFMER	TRANSFORMER
Y	WYE
<u>GE</u>	ENERAL NOTES:
1,	PROVIDE LABOR, MATERIALS, TOOLS, EQUIPMENT AND SERVICES FOR ELECTRICAL WORK INDICATED ON DRAWINGS.
<b>2</b> .	PROVIDE ALL ADDITIONAL AUXILIARY EQUIPMENT SUCH AS CONDUIT SUPPORT DEVICES, BOXES, CLAMPS, ETC., NOT SPECIFICALLY SHOWN ON THES DRAWINGS, BUT NECESSARY FOR A COMPLETE INSTALLATION.
3.	ALL PENETRATIONS IN RATED WALLS SHALL BE SEALED WITH UL LISTED FIRE-STOP SEALANT IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND UL ASSEMBLY LISTING. ALL OTHER CONDUIT RUNS FROM EXTERIOR SHALL BE SEALED WITH UL LISTED VAPOR STOP PUTTY.
4.	COORDINATE WITH ALL OTHER TRADES PRIOR TO START OF WORK.
<b>5</b> .	NEW MATERIALS INSTALLED SHALL CONFORM TO NEMA STANDARDS AND SHALL BEAR THE UL LABEL FOR APPLICATION USED.
6.	WHERE NEW CONDUCTORS AND/OR CONDUIT SYSTEM ARE INSTALLED, LENGTH AND ROUTING OF CONDUCTORS AND/OR CONDUIT SYSTEMS SHALL IDETERMINED IN THE FIELD BY THE ELECTRICAL CONTRACTOR.
7.	ALL EMPTY CONDUITS SHALL CONTAIN PULL STRING (200LB TEST). ENDS SHALL BE CAPPED WITHOUT GLUE, TO PREVENT INTRUSION OF FOREIGN MATERIALS.
8.	PROVIDE GROUND AND CONTINUITY TESTING ON ALL ELECTRICAL CIRCUIT WIRING PRIOR TO RECONNECTION/REINSTALLATION.
9.	ALL WIRING INSTALLED SHALL BE THHN/THWN COPPER UNO.
10.	PROVIDE PROTECTIVE COVERING OVER PANELS AND EQUIPMENT DURING CONSTRUCTION.
11,	EACH BRANCH CIRCUIT SHALL UTILIZE A SEPARATE NEUTRAL CONDUCTOR, MULTI-WIRE BRANCH CIRCUITS WITH COMMON NEUTRAL WIRES SHALL NEUED.
12.	ALL EXPOSED CONDUITS SUBJECT TO PHYSICAL DAMAGE SHALL BE RIGID GALVANIZED STEEL TYPE.
13.	EQUIPMENT SHALL BE OF MATERIALS SUITABLE FOR AND NEMA RATED FOR THE ENVIRONMENT IN WHICH THEY ARE TO BE INSTALLED.
14.	WORKING CLEARANCES FOR ELECTRICAL EQUIPMENT SHALL BE IN COMPLIANCE WITH NATIONAL ELECTRICAL CODE ARTICLE 110.
	THE EXCLUSIVELY DEDICATED SPACE EXTENDING FROM FLOOR TO STRUCTURAL CEILING WITH A WIDTH AND DEPTH OF THE PANEL BOARD, SWITCHBOARD, MOTOR STARTER, DISCONNECT SWITCH OR TRANSFORMER MUST BE CLEAR OF ALL PIPING, DUCTS, EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPURTENANCES IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE ARTICLE 110.26(E)(1).
	COORDINATE ALL FLUSH MOUNTED PANELS WITH HVAC DUCTS AND PIPING TO MAINTAIN EXCLUSIVELY DEDICATED SPACE PER NOTE ABOVE.
15.	LOCATIONS OF EQUIPMENT SHOWN ON THE DRAWINGS WHICH REQUIRE ELECTRICAL CONNECTIONS AND ARE NOT PROVIDED UNDER DIVISION 26 ARE SHOWN APPROXIMATE. COORDINATE EXACT LOCATIONS OF EQUIPMENT AND ELECTRICAL CONNECTIONS WITH APPROPRIATE TRADE PRIOR TO ROUGHING IN AND ROUTING CONDUIT.
16.	LIGHT SWITCHES SHALL BE MOUNTED 46" A.F.F. TO CENTERLINE OF DEVICE UNLESS OTHERWISE NOTED.

TYPE	DESCRIPTION	TOTAL WATTS	TYPE	VOLTAGE	MOUNTING	NOTES
Α	LED LAY-IN, 2FT X 4FT, STATIC MANF; COLUMBIA CAT#: LSER24-35LWG-R-EU OR APPROVED EQUAL	41	LED	120	RECESSED	
В	LED LAY-IN, 2FT X 4FT, STATIC MANF; COLUMBIA CAT#: LSER24-35MLG-R-EU OR APPROVED EQUAL	52	LED	120	RECESSED	
С	6" LED RECESSED DOWNLIGHT, DAMP LOCATION RATED, WHITE REFLECTOR TRIM MANF; DMF LIGHTING CAT#: DRDH-N-IC-6/DRD2M-7-9-35/DRD2T-R-6-WET-WH OR APPROVED EQUAL	11.8	LED	120	RECESSED	
D	2' VANITY LIGHT, LED MANF; LEGION LIGHTING CAT#: 4302-LED-ACW OR APPROVED EQUAL	25	LED	120	SURFACE	
E	4' WALL MOUNTED LED, MICRO PRISMATIC LENS, WHITE, WITH DUSK COVER MANF; LIGHTCONTROL CAT#: WID-L12-04-SOF-35K-10/35-CVW-D10-1CWQ-120 OR APPROVED EQUAL	51	LED	120	SURFACE	
F	LED STRIP 1FT X 4FT MANF; COLUMBIA CAT#: LCL4-35LW-EU OR APPROVED EQUAL	25	LED	120	SURFACE	
G	LED UNDER COUNTER LIGHT MANF; LEGION LIGHTING CAT#: 112-1205-120-WH-CP OR APPROVED EQUAL	5	LED	120	SURFACE	
Н	LED LAY-IN, 2FT X 2FT, STATIC MANF; COLUMBIA CAT#: LSER22-35LWG-R-EU OR APPROVED EQUAL	31	LED	120	RECESSED	
J	LED VANDAL RESISTANT 4FT FIXTURE MANF; LCDONE CAT#: VSA4-2L-35-DM-WH-TP-65 OR APPROVED EQUAL	30.7	LED	120	SURFACE	
K	LED HIGH BAY MANF; HUBBELL CAT CAT#:HBLHO-72L-U-X-2-4K-N-092-ND-WH OR APPROVED EQUAL	21.3	LED	120	SURFACE	
L	LED WALL PACK MANF; HUBBELL CAT#: SG1-20 4K7-FT-UNV COLOR BY ARCH. OR APPROVED EQUAL	20	LED	120	SURFACE	
M	LED LARGE WALL PACK MANF; HUBBELL CAT#: SG2-80-4K7-FT-UNIV COLOR BY ARCH. OR APPROVED EQUAL	80	LED	120	SURFACE	
N	LED FLOOD LIGHT MANF; HUBBELL CAT#: FML-14-4K-8-M-U-K COLOR BY ARCH. OR APPROVED EQUAL	53	LED	120	KNUCKLE	
0	6" LED RECESSED DOWNLIGHT, DAMP LOCATION RATED, MANF; PRESCOLITE CAT#: LF6LED8G4-6LFLED8G435KWT OR APPROVED EQUAL	39.6	LED	120	RECESSED	
Р	4' LED LINEAR SIGN LIGHT, DAMP LOCATION RATED MANF; ALW CAT#: CMLSM.18.2-4HP900-35K-LED-UNV-AL OR APPROVED EQUAL	28	LED	120	RECESSED	
X	EXIT SIGN, CEILING/WALL MOUNT, RED LED, NUMBER OF FACES PER PLANS. MANF; COMPASS CAT#: CER OR APPROVED EQUAL	5	LED	120	CEILING/WALL	
EM	EMERGENCY LIGHTING, WALL PACK MANF; COMPASS CAT#: CSWEU2 OR APPROVED EQUAL	.56	LED	120	CEILING/WALL	
EM1	EMERGENCY LIGHTING, WALL PACK WET LOCATION MANF; COMPASS CAT#: CSWEU2 OR APPROVED EQUAL	2	LED	120	CEILING/WALL	
SLA	SINGLE POLE LIGHT, LED, TYPE 3 WITH FULL CUTOFF, MOTION SENSOR MANF; HUBBELL CAT#: ARCOES-ARA3-A-32L-4K-070-3-1-DB-SCP OR APPROVED EQUAL	293	LED	120	POLE	
POLE	DIRECT BURIAL 32' CONCRETE POLE 25' AFG. PROVIDE WIND CALCULATION FOR LOCATION WIND AND SOIL CONDITIONS  MODEL/CAT#: PRE-CAST 32' TYPE 1 OA OR APPROVED EQUAL					
SLF	GRADE MOUNTED FLAGPOLE FLOOD LIGHT MANF; HUBBELL CAT#: SGF1-20-4K-K OR APPROVED EQUAL					

LIGHT FIXTURE SCHEDULE

### **GENERAL LIGHTING FIXTURE NOTES:**

- ELECTRICAL SUBCONTRACTOR SHALL CLOSELY COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH RESPECTIVE LIGHTING FIXTURE FOR EACH ROOM PRIOR TO ORDERING TO ASSURE PROPER INSTALLATION.
- 2. EXIT LIGHTS SHALL BE MOUNTED WITH BOTTOM OF FIXTURE AT 6" ABOVE DOOR HEADER IN ALL AREAS THAT PERMIT THIS PLACEMENT. ALL OTHERS MAY BE CEILING MOUNTED.
- 3. IF THERE IS A DISCREPANCY BETWEEN A FIXTURE DESCRIPTION AND GENERAL NOTES, AND THE CATALOG NUMBER LISTED, THE FIXTURE DESCRIPTION AND GENERAL NOTES SHALL DICTATE.
- 4. PROVIDE ALL MOUNTING HARDWARE WITH FIXTURES NO LISTED IN CATALOG NUMBER. COORDINATE MOUNTING HARDWARE WITH CEILING
- 5. MANUFACTURERS OTHER THAN THOSE LISTED SHALL SUBMIT AND RECEIVE PRIOR APPROVAL 10 DAYS PRIOR TO BID DATE.
- 6. PROVIDE DOCUMENTATION OF IESNA PHOTOMETRIC LM-79 TESTING PROCEDURES, LED LIFETIME LM-80 TESTING PROCEDURES, AND WARRANTY WITH SUBMITTAL.
- 7. ALL LED LUMINARIES SHALL COMPLY WITH LM79 AND LM80 STANDARDS.
- 8. FINAL FINISH AND TRIM TO BE SELECTED BY OWNER/ARCHITECT.

This item has been electronically signed and sealed by Kyriakos Liatsos, PE on 10/18/2023 using a Digital Signature. sealed and the signature must be verified on any electronic copies

XXX CH'KD: SHEET NO.

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APPLICABLE CODES:

FLORIDA BUILDING CODE 2020. FLORIDA BUILDING CODE 2020 – ENERGY CONSERVATION 7TH EDITION. NFPA 70 NATIONAL ELECTRICAL CODE – 2017 EDITION. NFPA 72 NATIONAL FIRE ALARM & SIGNALING CODE - 2016 EDITION.

NFPA 101 LIFE SAFETY CODE - 2018 EDITION. 5. NFPA 110 STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS - 2016 EDITION.

MICROPHONE

AUXILLARY INPUT

PA POWER AMPLIFIER

→ P → PAGING SYSTEM RACEWAY PEC SYSTEM EQUIPMENT CABINET

INTERCOM SYSTEM

INTERCOM OUTLET REMOTE
AT 48" AFF, UNLESS OTHERWISE NOTED

(M) MASTER STATION
 (S) STAFF STATION

✓IC 
— INTERCOM SYSTEM RACEWAY

ICP INTERCOM EQUIPMENT PANEL

+ WALKWAY BOLLARD

GENERATOR - SEE RISER DIAGRAM

→ FLOODLIGHT

**VOLTAGE DROP NOTE** 

17. RECEPTACLES SHALL BE MOUNTED 18" A.F.F. TO CENTERLINE OF DEVICE UNLESS OTHERWISE NOTED.

THIS PROJECT IS DESIGNED FOR A MAXIMUM TOTAL VOLTAGE DROP OF 5% AS PER 2020 FBC ENERGY CONSERVATION C405.5.3: THE FEEDERS HAVE BEEN SIZED FOR A MAXIMUM VOLTAGE DROP OF 2% AT DESIGN LOAD AND BRANCH CIRCUIT CONDUCTORS HAVE BEEN SIZED FOR A MAXIMUM VOLTAGE DROP OF 3% AT DESIGN LOAD.

**COMPLETION REQUIREMENTS:** 

RECORD DRAWINGS:
PER FBC C405.5.4.1 - CONTRACTOR SHALL PROVIDE WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION TO THE BUILDING 1. A SINGLE LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM AND
 2. FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION.

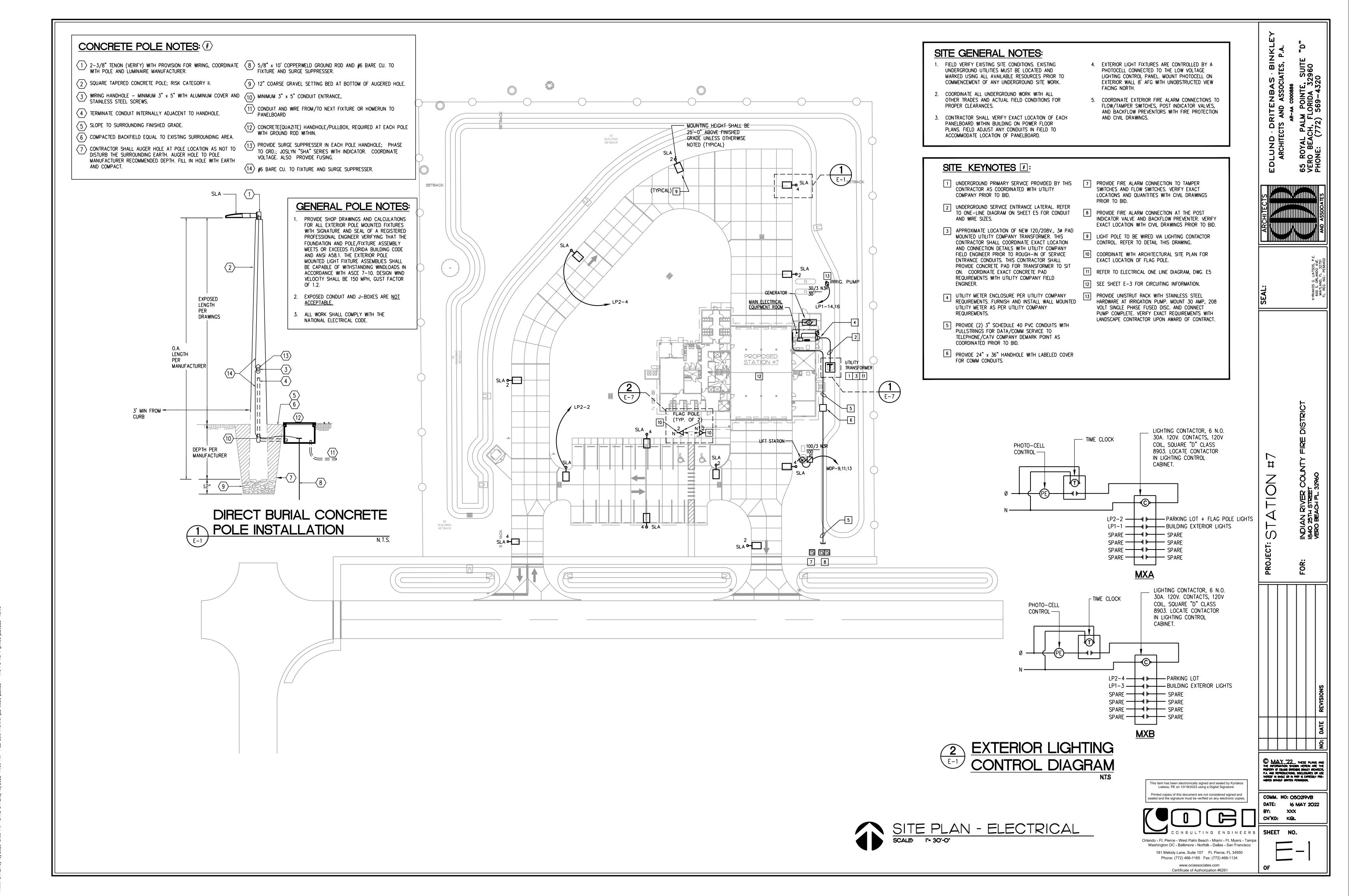
MANUALS:
PER FBC C405.5.4.2, OPERATION MANUALS & MAINTENANCE MANUALS SHALL BE PROVIDED TO THE BUILDING OWNER. THE MANUALS SHALL INCLUDE AT A MINIMUM THE FOLLOWING:

1. SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.

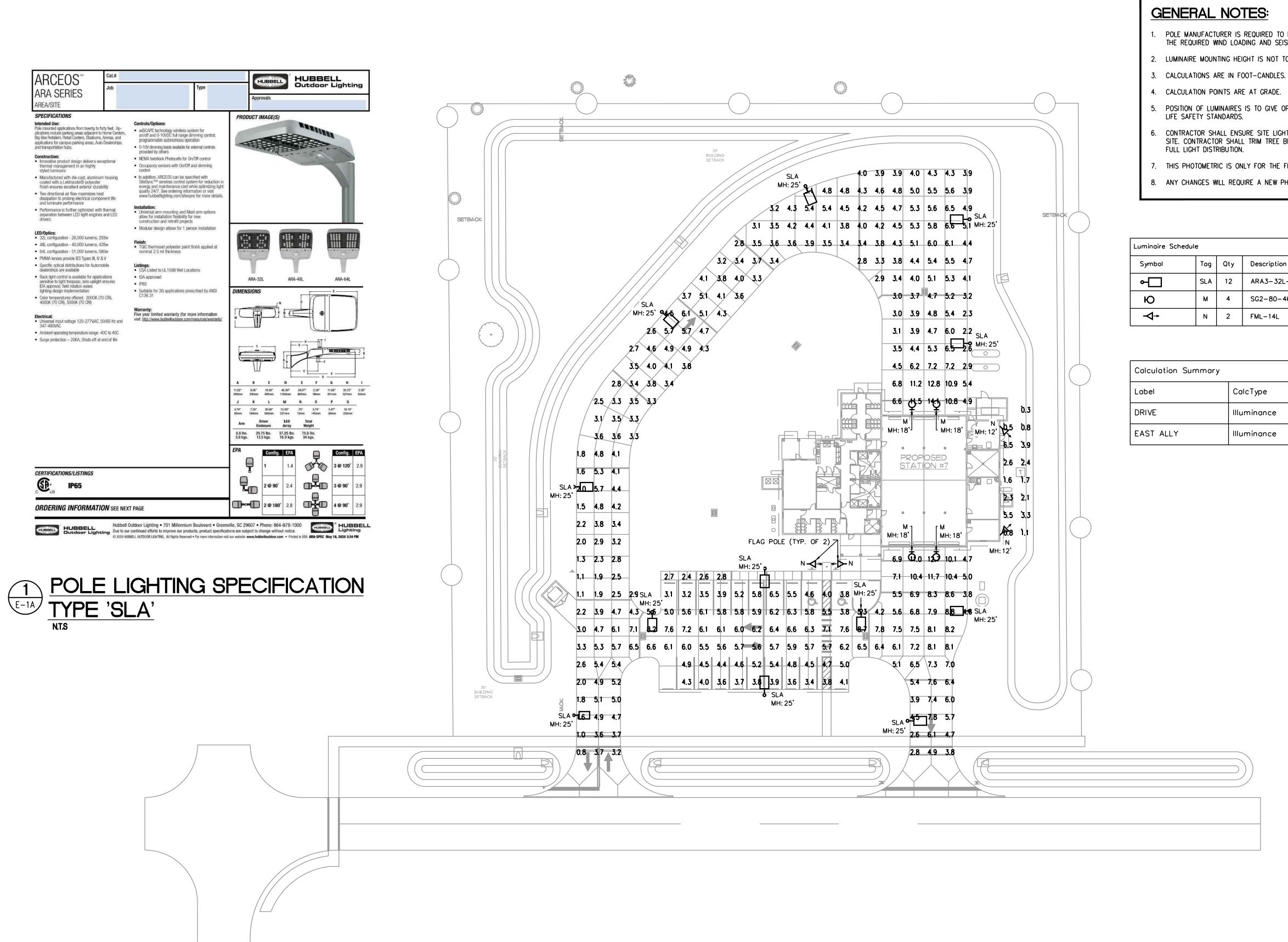
2. OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY 3. NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.

GENERAL NOTES - ELECTRICAL

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POLE MANUFACTURER IS REQUIRED TO PROVIDE SIGNED AND SEALED DRAWINGS STATING THAT THE POLES MEET THE REQUIRED WIND LOADING AND SEISMIC CRITERIA BEFORE SHIPPING THE POLES.

2. LUMINAIRE MOUNTING HEIGHT IS NOT TO EXCEED 30' AFG.

5. POSITION OF LUMINAIRES IS TO GIVE OPTIMAL LIGHT LEVEL IN AREAS ACCORDING TO IES RECOMMENDATIONS AND

CONTRACTOR SHALL ENSURE SITE LIGHTING LOCATIONS DO NOT CONFLICT WITH ANY EXISTING TREE LOCATIONS ON SITE. CONTRACTOR SHALL TRIM TREE BRANCHES THAT BLOCK SITE LIGHT FIXTURES AS NECESSARY TO ACHIEVE

7. THIS PHOTOMETRIC IS ONLY FOR THE FIXTURES SPECIFIED AND INDICATED IN LIGHTING FIXTURE SCHEDULE.

8. ANY CHANGES WILL REQUIRE A NEW PHOTOMETRIC STUDY.

Luminaire Schedu	le					
Symbol	Tag	Qty	Description	LLF	Total Watts	Lum. Lumens
⊶□	SLA	12	ARA3-32L-4K-070-3	0.850	3520.8	26,473
Ю	М	4	SG2-80-4K7-FT	0.850	323.2	8182
-	N	2	FML-14L	0.950	99.8	4771

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
DRIVE	Illuminance	Fc	4.88	14.1	0.8	6.10	17.63
EAST ALLY	Illuminance	Fc	2.36	6.5	0.3	7.87	21.67

This item has been electronically signed and sealed by Kyriakos Liatsos, PE on 10/18/2023 using a Digital Signature.



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COMM. NO: 050219VB DATE: 16 MAY 2022

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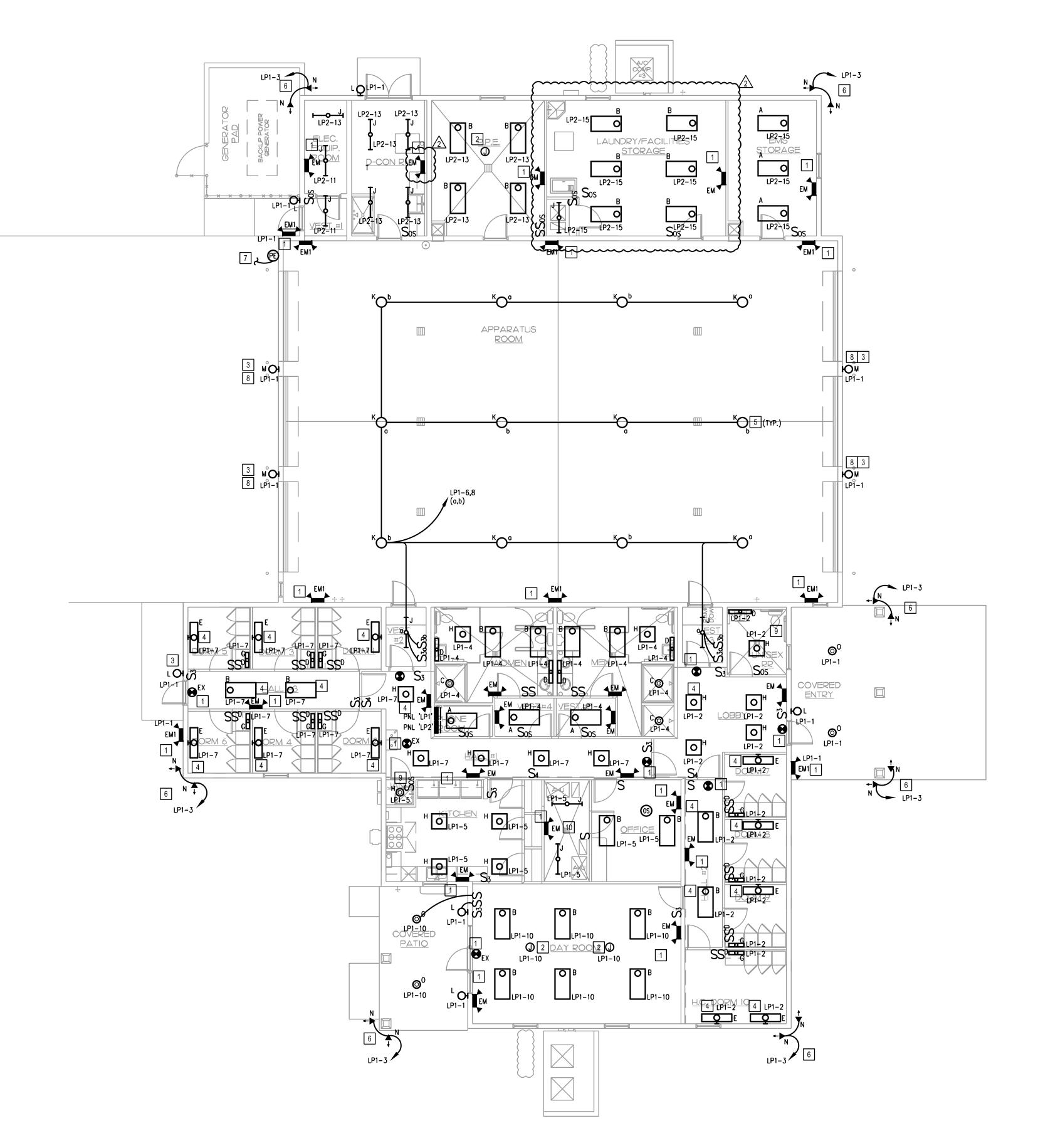
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SITE PLAN - PHOTOMETRICS
SCALE 1°- 30'-0"

- 1. ALL LIGHT SWITCHES SHALL BE 120V RATED UNLESS OTHERWISE NOTED.
- 2. COORDINATE EXACT LOCATION OF EACH LIGHT FIXTURE WITH MECHANICAL PIPING, CONDUIT, HVAC GILLES, ETC. FIELD ADJUST ANY LIGHT TO AVOID
- 3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT TYPE AND HEIGHT OF CEILING IN EACH ROOM. COORDINATE WITH ARCHITECT/ENGINEER PRIOR TO ROUGH-IN OF ANY FIXTURES. COORDINATE ALL CONTROL JOINT LOCATIONS WITH LIGHT FIXTURES PRIOR TO ANY ROUGH-IN OF FIXTURES.
- 4. EMERGENCY EGRESS LIGHTS AND EXIT SIGNS SHALL BE CONNECTED TO THE LOCAL LIGHTING CIRCUIT SERVING THE SPACE AND WIRED AHEAD OF ANY LOCAL SWITCHES OR EMS SYSTEM.
- 5. EXIT LIGHTS SHALL BE MOUNTED WITH BOTTOM OF FIXTURE AT 6" ABOVE DOOR HEADER IN ALL AREAS THAT PERMIT THIS PLACEMENT. ALL OTHERS MAY BE CEILING MOUNTED.
- 6. MULTIPLE LIGHT SWITCHES, AT THE SAME LOCATION, SHALL BE GANGED TOGETHER UNDER ONE COVER PLATE. DIMMER SWITCHES SHALL BE INSTALLED IMMEDIATELY BELOW SWITCH LOCATIONS.
- COORDINATE LOCATION OF ALL LIGHT FIXTURES WITH ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS PRIOR TO ROUGH-IN.
- 8. POWER PACK FOR OCCUPANCY SENSORS ARE NOT INDICATED ON PLANS. ELECTRICAL CONTRACTOR SHALL PROVIDE POWER PACKS PER OCCUPANCY SENSOR MANUFACTURER'S RECOMMENDATIONS.

# LIGHTING KEYNOTES 🗵

- 1. EXTEND BRANCH CIRCUIT WIRING FOR EXIT LUMINARE AND EMERGENCY LIGHTS AHEAD OF ALL SWITCHING.
- 2. PROVIDE JUNCTION BOX FOR CEILING FAN. SUPPORT FROM STRUCTURE ABOVE.
- 3. ALL EXTERIOR LIGHTING SHALL BE CONTROLLED BY PHOTO-ELECTRIC CELL VIA CONTACTOR.
- 4. THESE LIGHTING FIXTURES IN HALLWAYS AND DORM ROOMS SHALL COME ON WHEN ALARM CALL GOES OFF. WIRE RELAY TO BYPASS LOCAL SWITCHING.
- 5. INSTALL LED LIGHTS IN APPARATUS BAY TO SURFACE OF CEILING.
- 6. EACH FLOODLIGHT FIXTURE IS MOUNTED TO AN INDIVIDUAL JUNCTION BOX, PROVIDE BACKING FOR BOXES TO SUPPORT WEIGHT. COORDINATE LOCATIONS AT APPROX. 12 FEET AFG WITH DOWNSPOUTS PRIOR TO ROUGH-IN. TYPICAL FOR ALL "N" FIXTURES.
- 7. PHOTO-ELECTRIC CELL FOR LIGHTING CONTROL MOUNT 1" DOWN FROM ROOF
- 8. FIXTURE TO BE MOUNTED JUST ABOVE THE DOOR HEIGHTS, REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION.
- 9. OCCUPANCY SENSOR SHALL BE CONNECTED TO EXHAUST FAN CONTROL. COORDINATE WITH POWER AND MECHANICAL SHEETS. VERIFY WITH MECHANICAL CONTRACTOR AS REQUIRED.
- 10. FIXTURE LOCATION IN THIS ROOM SHALL BE COORDINATED WITH FINAL HVAC AIR HANDLER LOCATIONS, DIMENSIONS, DUCTWORK, ETC. VERIFY EXACT LOCATIONS WITH MECHANICAL SHEETS AND HVAC CONTRACTOR PRIOR TO







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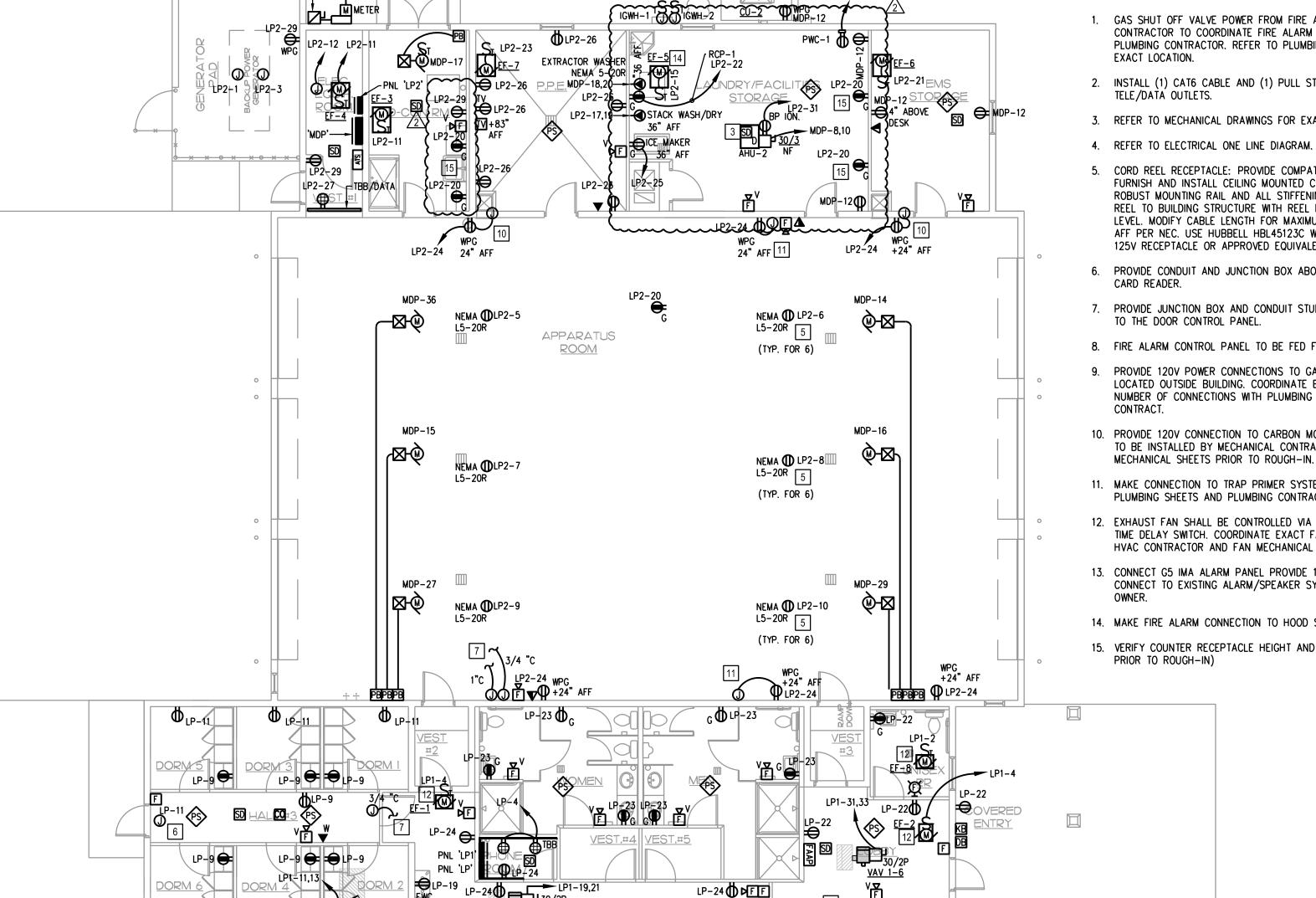
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# POWER GENERAL NOTES:

- 1. COORDINATE EXACT INSTALLATION REQUIREMENTS OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS AND ACCEPTED MILLWORK SHOP DRAWINGS.
- 2. LOCATION OF ALL DEVICES ON DRAWINGS ARE APPROXIMATE ONLY. VERIFY EXACT LOCATION WITH OWNERS REPRESENTATIVE, ARCHITECT, AND/OR ENGINEER PRIOR TO ROUGH-IN.
- 3. COORDINATE THE LOCATION OF VOICE/DATA OUTLETS WITH POWER RECEPTACLES ESPECIALLY WHERE COMPUTERS ARE TO BE LOCATED. COORDINATE WITH TECHNOLOGY DRAWINGS.
- 4. ALL RACEWAYS AND CABLE SHALL BE BE CONCEALED UNLESS NOTED OR APPROVED IN WRITING BY OWNER AND/OR ENGINEER.
- 5. MOUNT ALL DISCONNECT SWITCHES FOR MECHANICAL EQUIPMENT WITHIN 6 FT. OF EQUIPMENT CONNECTION POINT. VERIFY LOCATION OF POINT OF CONNECTION WITH EQUIPMENT INSTALLER PRIOR TO ELECTRICAL ROUGH-IN. (DRAWINGS ONLY SHOW DIAGRAMMATIC LOCATION OF CONNECTION).
- 6. VFD/STARTERS ON MECHANICAL EQUIPMENT ARE SHOWN FOR WIRING PURPOSES ONLY, VFD/STARTERS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL
- 7. ALL CONTROL WIRING FOR MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR.

## FIRE ALARM GENERAL NOTES:

- 1. DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER THE CONSTRUCTION CLEAN-UP OF ALL TRADES IS COMPLETE AND FINAL. DETECTORS THAT HAVE BEEN INSTALLED PRIOR TO FINAL CLEAN-UP BY ALL TRADES SHALL BE CLEANED OR REPLACED. CLEANING OR REPLACEMENT OF DEVICES THAT WERE MOUNTED AT THE REQUEST OF THE CONTRACTOR WILL NOT BE PERFORMED WITHOUT WRITTEN AUTHORIZATION THAT ASSUMES FINANCIAL RESPONSIBILITY FOR COSTS INCURRED.
- 2. ALL DEVICES IN THE ALARM SYSTEM SHALL BE COMPATIBLE AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
- 3. ALL EQUIPMENT SHALL BE U.L. LISTED.
- 4. ALL JUNCTION BOXES SHALL BE SIZED IN ACCORDANCE WITH THE N.E.C. AND SHALL HAVE THEIR COVERS PAINTED RED WHERE BOX IS INSTALLED BEHIND BUILDING FINISHES
- 5. ELECTRICAL CONTRACTOR SHALL FURNISH ACCESS PANELS TO AREAS AND DEVICES THAT REQUIRE SERVICING, TROUBLE SHOOTING, ETC.
- 6. DO NOT DEVIATE FROM CONDUIT RUNS AS SHOWN ON SHOP DRAWINGS WITHOUT PRIOR APPROVAL FROM SYSTEM SUPPLIER. FACTORS SUCH AS EXCESSIVE VOLTAGE DROP, ADDITIONAL PARTS, ENGINEERING, ETC., THAT ARE A RESULT OF CONDUIT RUN DEVIATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- 7. AREA DETECTORS SHALL NOT BE LOCATED IN A DIRECT AIR-FLOW, NOT CLOSER THAN 5 FEET FROM AN AIR SUPPLY DIFFUSER.
- 8. ALL FAN SHUTDOWN FUNCTIONS, DAMPER CLOSURES AND ASSOCIATED MECHANICAL SYSTEM FIRE ALARM INTERFACE SHALL BE BY MECHANICAL CONTRACTOR. FIRE ALARM CONTRACTOR WILL PROVIDE OPEN CONTACT ON ALARM WITHIN THREE FEET OF THE
- 9. ALL CONDUITS ARE 3/4" UNLESS OTHERWISE NOTED.
- 10. THE ALARM SYSTEM SHALL HAVE AN AUDIBILITY OF NOT LESS THAN 15dB ABOVE AMBIENT NOISE LEVELS, BUT NOT LESS THAN 75dBA THROUGHOUT AREA OF ALARM. TESTING SHALL BE ACCOMPLISHED WITH A dB METER. WHERE APPLICABLE.
- 11. PROVIDE 3/4" CONDUIT FROM FIRE ALARM CONTROL PANEL TO TELEPHONE BACKBOARD FOR OWNER PROVIDED CENTRAL STATION MONITORING.
- 12. FIRE ALARM SIGNAL SHALL MEET ANSI S3.41, AUDIBILITY EMERGENCY EVACUATION SIGNAL (TEMPORAL PATTERN).
- 13. COORDINATE EXACT LOCATION AND QUANTITY OF FLOW AND TAMPER SWITCHES WITH FIRE PROTECTION SHOP DRAWINGS PRIOR TO ROUGH-IN.
- 14. FA NOTIFICATION DEVICE SPACING IS SHOWN ONLY FOR DESIGN PURPOSES. FIRE ALARM CONTRACTOR SHALL LOCATE DEVICES BASED ON THE LISTED COVERAGE OF THE SELECTED DEVICE AND FIRE ALARM SHOP DRAWINGS AND ADJUST QUANTITY AS NEEDED.



CONTROL

<u>CU-1</u> 60/3 3R

DORM 7

DORM 9

MDP-22; 24; 26

TO PAD MOUNTED TRANSFORMER (FOR CONT. SEE DWG. NO. E-1)

SERVICE DISC. 7

### **POWER KEYNOTES:**

- GAS SHUT OFF VALVE POWER FROM FIRE ALARM SYSTEM. FIRE ALARM CONTRACTOR TO COORDINATE FIRE ALARM CONNECTIONS WITH PLUMBING CONTRACTOR. REFER TO PLUMBING DRAWINGS SHEET FOR
- INSTALL (1) CAT6 CABLE AND (1) PULL STRING IN CONDUIT FOR ALL
- REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION.
- 5. CORD REEL RECEPTACLE: PROVIDE COMPATIBLE PLUG IF REQUIRED. FURNISH AND INSTALL CEILING MOUNTED CORD REEL COMPLETE WITH ROBUST MOUNTING RAIL AND ALL STIFFENING HARDWARE TO SECURE REEL TO BUILDING STRUCTURE WITH REEL MOUNTING AT CEILING LEVEL. MODIFY CABLE LENGTH FOR MAXIMUM EXTENSION TO BE 18" AFF PER NEC. USE HUBBELL HBL45123C WITH 12/3 CORD, 15A, 125V RECEPTACLE OR APPROVED EQUIVALENT.
- PROVIDE CONDUIT AND JUNCTION BOX ABOVE CEILING FOR FUTURE
- PROVIDE JUNCTION BOX AND CONDUIT STUBBED ABOVE CEILING UP
- 8. FIRE ALARM CONTROL PANEL TO BE FED FROM PANEL LP1 #12.
- PROVIDE 120V POWER CONNECTIONS TO GAS WATER HEATERS LOCATED OUTSIDE BUILDING. COORDINATE EXACT LOCATION AND NUMBER OF CONNECTIONS WITH PLUMBING PLANS AND PLUMBING
- 10. PROVIDE 120V CONNECTION TO CARBON MONOXIDE DETECTION SYSTEM TO BE INSTALLED BY MECHANICAL CONTRACTOR. COORDINATE WITH MECHANICAL SHEETS PRIOR TO ROUGH-IN.
- 11. MAKE CONNECTION TO TRAP PRIMER SYSTEM, COORDINATE WITH PLUMBING SHEETS AND PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
- 12. EXHAUST FAN SHALL BE CONTROLLED VIA OCCUPANCY SENSOR AND TIME DELAY SWITCH, COORDINATE EXACT FAN REQUIREMENTS WITH HVAC CONTRACTOR AND FAN MECHANICAL SCHEDULE.
- 13. CONNECT G5 IMA ALARM PANEL PROVIDE 120V CONNECTION AND CONNECT TO EXISTING ALARM/SPEAKER SYSTEMS AS REQUIRED BY
- 14. MAKE FIRE ALARM CONNECTION TO HOOD SYSTEM.

ALL RECEPTACLES SHALL BE TAMPER RESISTANT TYPE AS PER NEC 406-12

15. VERIFY COUNTER RECEPTACLE HEIGHT AND LOCATION WITH ARCHITECT

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This item has been electronically signed and sealed by Kyriakos Liatsos, PE on 10/18/2023 using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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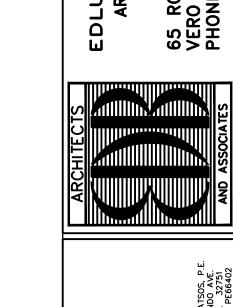
D4 :		NADD		TING:								MCB			2200					_
PAI	NEL	MDP	SER			20V, 3PI				OUN	TNG:	SURFACE	LOCA	ATION:						
Ckt				CKT	BKR	BRA	NCH C	IRCUI	T	Phas				CKT	BKR	BR	ANCH	CIRC	JIT	
No.	EQU	IPMENT SERVED	KVA	POLE	TRIP	φ	N	GND	С	е	Ckt	EQUIPMENT SERVED	KVA	POLE	TRIP	φ	N	GND	С	
1	AHU-1		1.00	3	15	12	12	12	3/4	Α	2	CU-1	4.88	3	60	6	6	10	1	
3	-		1.00	-		12				В	4	-	4.88			6				Γ
5	-		1.00	-		12				С	6	-	4.88			6				ſ
7	SPARE			1	20					Α	8	AHU-2	2.00	2	30	10	10	10	1	ſ
9	LIFT STA	ATION	4.74	3	100	3	3	8	1-1/4	В	10		2.00	-		10				r
11	-		4.74	-		3				С	12	EMS STORAGE	1.08	1	20	12	12	12	3/4	r
13	-		4.74	-		3				Α	14	O.H. DOOR APP. ROOM	1.44	1	20	12	12	12	3/4	r
15	O.H. DO	OR APP ROOM	1.44	1	20	12	12	12	3/4	В	16	O.H. DOOR APP. ROOM	1.44	1	20	12	12	12	3/4	r
17	LAWN B	AY DOOR	1.20	1	20	12	12	12	3/4	С	18	EXTRACTOR WASHER	1.40	2	20	12	12	12	3/4	r
19	SPARE			1	20					Α	20	-	1.40	-		12				r
21	SPARE		1	<del>.</del>	20					В	22	CU-2	1.57	3	25	12	12	12	3/4	t
23	SPARE		+	1	20					С	24	-	1.57	<u> </u>		12		-		t
25	SPARE			1	20					Α	26	-	1.57			12				t
27		OOR APP ROOM	1.44	1	20	12	12	12	3/4	В	28	SPARE		1	20					r
29		OR APP ROOM	1.44	1	20	12	12	12	3/4	С	30	SPARE		1	20					t
31	PANEL 'L	_P2'	11.40	3	150	1/0	1/0	6	2	Α	32	SPARE		1	20					r
33	-		10.10	-		1/0				В	34	SPARE		1	20					İ
35	-		10.10	-		1/0				С	36	O.H. DOOR APP. ROOM	1.44	1	20	12	12	12	3/4	ľ
37	PANEL 'L	_P'	16.50	3	225	4/0	4/0	4	2-1/2	Α	38	SPD		3	60	6	6	10	10	ſ
39	-		18.10	-		4/0				В	40	-		-		6				Γ
41	-		16.20	-		4/0				С	42	-		-		6				Γ
PHAS PHAS PHAS	SE B: SE C:					46.7 45.1	KVA													
e l	FOLUEM	IENT SERVED		NN. LO	ΔD		KVA DF	4	DESI	GN LO	) A D	REMARKS:								_
	·								DESI				IEI IED AI							_
2		Motors		0.00			00%			0.00		- PROVIDE GROUND BUS & I								_
		gest Motor	+	2.99			25%			3.74		- PROVIDE TYPE WRITTEN D	NKECTO	KY.						_
		_ighting		0.00			25%			0.00										_
		cles (1st 10 kVA)	1	1.08			00%			1.08										_
		les (Remaining)	1				50%													_
		Heating	1	4.00			0%			0.00										_
		Cooling		19.36			00%			19.36										_
	Ed	quipment		26.86			'5%			20.15										
	Ap	ppliances		0.00		1	00%			0.00										
		Other		82.40		8	35%			70.04										_
	20	% Spare		22.87		1	00%			22.87										_
						TOT 4	I I/\/A			427										_
						IUIA	. κνΔ			1.5/										
		20	20% Spare	20% Spare	20% Spare 22.87	20% Spare 22.87			·		·	·								20% Spare 22.87 100% 22.87 TOTAL kVA 137

	D				ATING:								MLO			2200					
	PAI	<u>ier</u>	LP	SEF			20V, 3PI				IOUN	ΠNG:	SURFACE	LOCA	TION:						ΗE
Code	Ckt No.	EQUIPM	MENT SERVED	KVA	POLE			NCH C	GND		Phas e	Ckt	EQUIPMENT SERVED	KVA	CKT I		BR φ	ANCH N	GND	JIT C	Code
R	1	SPARE			1	20	φ	- 1	GIVE		A	2	CONTROL ROOM QUAD	1.23	1	20	Ψ 12	12	12	3/4	R
R	3	SPARE			1	20					В	4	TW QUADS	0.54	1	20	12	12	12	3/4	R
R	5	SPARE			1	20					C		G5 IMA ALARM PANEL	0.50	1	20	12	12	12	3/4	E
R	7	SPARE			1	20					A		SPARE	0.50	1	20	12	12	'2		
R	9	DORM.1-6**	*	1.08	1	20	12	12	12	3/4	В		SPARE		1	20					
R		DORM.1-6**		1.08	1	20	12	12	12	3/4	С		DAYROOM, PATIO	1.44	1	20	12	12	12	3/4	F
A		KITCHEN D	·	1.20	1	20	12	12	12	3/4	Α		KITCHEN DISPOSAL	0.83	1	20	12	12	12	3/4	-/
Α		REFRIG.		1.50	1	20	12	12	12	3/4	В		REFRIG.	1.50	1	20	12	12	12	3/4	-/
R	17	KITCHEN		0.54	1	20	12	12	12	3/4	С	18	REFRIG.	1.50	1	20	12	12	12	3/4	-
Е	19	EWC-1		0.50	1	20	12	12	12	3/4	Α	20	KITCHEN HOOD	0.15	1	20	12	12	12	3/4	P
Α	21	GAS RANGE	<u> </u>	0.60	1	20	12	12	12	3/4	В	22	LOBBY, R.R., COVE ENTRAN.	0.72	1	20	12	12	12	3/4	R
R	23	R.R. MEN/W	VOMEN,	1.08	1	20	12	12	12	3/4	С	24	HALL	0.90	1	20	12	12	12	3/4	R
R	25	DORM.7-10	**	1.08	1	20	12	12	12	3/4	Α	26	DORM.7-10**	0.72	1	20	12	12	12	3/4	R
R	27	OFFICE		0.90	1	20	12	12	12	3/4	В		HW CIRC. PUMP	0.15	1	15	12	12	12	3/4	N
М	29	KEF-1		0.70	1	20	12	12	12	3/4	С	30	GSV-1	0.30	1	20	12	12	12	3/4	E
M	31	KSF-1		1.87	1	25	10	10	10	3/4	Α	32			1	20	12	12	12	3/4	
	33	SPARE		0.54	1	20	40	40	40	2/5	В		PANEL 'LP1'	11.10	3	225	4/0	4/0	4	2-1/2	_(
R	35 37	KITCHEN SPD		0.54	3	20 30	12	12	12	3/5	C A	36 38	-	7.60 8.90	-		4/0 4/0				C
	39				3	30					В		SPARE	0.90	1	20	4/0				
	41										C		SPARE		1	20					
	PHAS PHAS PHAS	SE B: SE C:					18.1 16.2	KVA													
		TAL LOAD:	IT 050\ 50					KVA	4				DEMARKO								
Code		EQUIPMEN		CO	NN. LO	AD		DF		DES	IGN L	OAD	REMARKS:								
M/3/2		Mot			0.85			00%			0.85		- PROVIDE GROUND BUS & NE								
			t Motor	+	1.87			25%			2.34		- PROVIDE TYPE WRITTEN DIF			NIOT 1	20511	. 400	<u> </u>	\ T\ (=	
		Ligh	nting		0.00			25%			0.00		* EXTERIOR LTG CONTROLLE								<u>'</u>
L		December	(4 - 4 4 0 1 - 4 )		4000						40.00		DAUTH INTERPAL OFFICE ACCE	CTOD		ルロバし	ARLE	21FM	MOON	1.	
L R		Receptacles	` '		10.00			00%			10.00		WITH INTEGRAL SURGE ARRE	STOR	AND AL	700017					
L R R		Receptacles	(Remaining)		1.85		5	50%			0.93				AND AL	700017					
L R R		Receptacles Hea	(Remaining)		1.85 0.00		5 1	00% 00%			0.93		** PROMDE ARC FAULT BREA	KER	AND AL	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
L R R H		Receptacles Hea Coo	(Remaining) ating bling		1.85 0.00 0.00		5 1 1	00% 00% 00%			0.93 0.00 0.00			KER	AND AL						
L R R H C		Receptacles Hea Coo	(Remaining) ating bling bment		1.85 0.00 0.00 1.30		5 1 1 1	00% 00% 00% 00%			0.93 0.00 0.00 1.30		** PROMDE ARC FAULT BREA	KER	AND AL	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
L R R H		Receptacles Hea Coo Equip Applia	(Remaining) ating bling bment ances		1.85 0.00 0.00 1.30 7.28		5 1 1 1 1	00% 00% 00% 00%			0.93 0.00 0.00 1.30 7.28		** PROMDE ARC FAULT BREA	KER	AND AL						
L R R H C		Receptacles Hea Coo Equip Applia	(Remaining) ating bling bment		1.85 0.00 0.00 1.30		5 1 1 1 1	00% 00% 00% 00%			0.93 0.00 0.00 1.30		** PROMDE ARC FAULT BREA	KER	AND AL						
L R R H C		Receptacles Hea Cod Equip Applia	(Remaining) ating bling bment ances		1.85 0.00 0.00 1.30 7.28		5 11 11 11 11	00% 00% 00% 00%			0.93 0.00 0.00 1.30 7.28		** PROMDE ARC FAULT BREA	KER	AND AL	700017					
L R R H C		Receptacles Hea Cod Equip Applia	(Remaining) ating oling oment ances her		1.85 0.00 0.00 1.30 7.28 27.60		5 11 11 11 11	50% 00% 00% 00% 00% 00%			0.93 0.00 0.00 1.30 7.28 27.60		** PROVIDE ARC FAULT BREA	KER	AND AL						

			1.00		TING:								MLO			2200					
	<u>PAI</u>	NEL	LP2	SEF			20V, 3P				OUN	TING:	SURFACE	LOCA	ATION:						
Code	Ckt No.	EQUIP	MENT SERVED	KVA	POLE		BRAI	NCH C	GND	С	Pha se	Ckt	EQUIPMENT SERVED	KVA	POLE	BKR TRIP		ANCE N	CIRC GND		- 20
R		CEN DATT	ERY CHARGER*	1.00	1	20	Ψ 12	12	12	3/4	_	2	SITE LIGHTING*	1.17	1	20	Ψ 6	6	8	1	<u> </u>
R	3		CK HEATER*	1.00	1	20	12	12	12	3/4	A B		SITE LIGHTING*	0.88	1	20	6	6	8	1	$\frac{1}{1}$
R	5		CEILING (SPCU)	1.40	1	20	12	12	12	3/4	С		APP BAY CEILING (SPCU)	1.40	1 1	20	12	12	12	3/4	$\perp$
R	7		CEILING (SPCU)	1.40	1	20	12	12	12	3/4	A		APP BAY CEILING (SPCU)	1.40	1	20	12	12	12	3/4	$\vdash$
R	9		CEILING (SPCU)	1.40	1	20	12	12	12	3/4	В		APP BAY CEILING (SPCU)	1.40	1	20	12	12	12	3/4	-
L	11	LAWN EQ.	, ,	1.60	1	20	12	12	12	3/4	C		BMS CONTROLS	0.54	1	20	12	12	12	3/4	t
Ē	13	FACIL. LA	•	0.70	1	20	12	12	12	3/4	A		IWGH-1	1.00	1	20	12	12	12	3/4	t
L	15	STOR. ME		1.50	1	20	12	12	12	3/4	В		TWGH-2	1.90		~20~	~12~	72	42~	<del>~3/4~</del>	╼
E	17	STACK WA		2.50	2	30	8	8	10	3/4	С		RCP-2	0.30	1	20	12	12	12	3/4	H
Е	19	-		2.50		-	8				Α	29	LAUNDRY COUNTER	0.72	1	20	12	12	12	3/4	
E	21	EF-6		1.00	1	20	12	12	12	3/4	В	22	PWC-1	0.30	1	20	12	12	12	3/4	۲
Е	23	EF-7		1.00	1	20	12	12	12	3/4	С	24	APPARATUS BAY	1.08	1	20	12	12	12	3/4	T
Α	25	ICE MAKE		0.60	1	20	12	12	12	3/4	Α	1	FACILITIES STORAGE	1.08	1	20	12	12	12	3/4	
R	27	TTB/DATA		0.36	1	20	12	12	12	3/4	В		EMS STORAGE	1.08	1	20	12	12	12	3/4	
R	29		.ELEC. RM	0.54	1	20	12	12	12	3/4	С		SPACE								퇶
<u>E</u> _	31		IONIZATION	0.20	1	20	12	12	12	3/4	A		SPACE								╄
E	33	SPACE	IONIZATION	0.20	1	20	12	12	12	3/4	В		SPACE SPACE								╄
	35	SPACE		-							C	1	SPD		3	30					╁
	39	SPACE		+							В	40			3	30					╁
		SPACE		+							C	42		<del> </del>							+
		SE C:					10.1 10.4	KVA KVA													
ANE	L TOT	AL LOAD:		<del>                                     </del>			32.3	KVA	4	<u> </u>											
ode		EQUIPME	NT SERVED	CO	NN. LO	AD		DF		DES	IGN L	OAD	REMARKS:								
V3/2		Mo	otors		0.00		1	00%			0.00		- PROMDE GROUND BUS &	NEUTR	AL BUS	S.					
		Large	st Motor		0.00		1:	25%			0.00		- PROVIDE TYPE WRITTEN D	IRECT	ORY.						
L			hting		5.85			25%			7.31		* EXTERIOR LTG CONTROLL	ED TH	ROUGI	H PHC	TOCE	LL: 1	20VRI	ELAY .	ΤY
R		•	s (1st 10 kVA)		10.00			00%			10.00		WITH INTEGRAL SURGE ARI	RESTO	R AND .	ADJU	STABL	E ST	EM MC	UNT.	
R	F		s (Remaining)		5.80			50%			2.90										
Н			ating		0.00			00%			0.00		** PROVIDE ARC FAULT BRE								
С	<u> </u>		oling		0.00			00%			0.00		(L) PROVIDE LOCK-ON DEVI	CE							
E	<u> </u>	•	pment		10.00			00%			10.00										
A	<u> </u>		iances		0.60			00%			0.60										
0		O	ther	-	0.00		1	00%			0.00										
		20%	Spare		6.16		1	00%			6.16										_
	<b>†</b>																				
							TOTAL .				37 103										

										<b>-</b>						1					
	PAN	JEI	LP1		ATING:					_			MLO			2200					
	PAI	YEL	LPI	SEF			20V, 3PH				<u>IOUN</u>	ΠNG:	SURFACE	LOCA	ATION:						HEN)
Code	Ckt	FOLUDA	MENT CEDVED	123.74	CKT	BKK	BRAI	NCH C	IRCUI	l	Phas	014		127.49	CKT	BKK	BK	ANCH	CIRCI	JII	Code
ပိ 	No.		MENT SERVED	KVA	POLE	TRIP	ф	N	GND	С	е	Ckt	EQUIPMENT SERVED	KVA	POLE		ф		GND	С	ပိ —
L		_	O (THRU CONT.)*	1.00	1	20	12	12	12	3/4	Α		DORM 7-10, LOBBY**	1.23	1	20	12	12	12	3/4	L
L			D (THRU CONT.)*	1.00	1	20	12	12	12	3/4	В		RESTROOMS, EF-2,8	1.20	1	20	12	12	12	3/4	L
L			OFFICE, EF-1,9	1.07	1	20	12	12	12	3/4	С		APPARATUS BAY	0.80	1	20	12	12	12	3/4	L
<u>L</u>	7		6, HALL #1,**	1.20	1	20	12	12	12	3/4	Α		APPARATUS BAY	1.30	1	20	12	12	12	3/4	L
L		SPARE		0.00	1	20					В		DAY ROOM	1.00	1	20	12	12	12	3/4	<u>L</u>
Н	11	VAV1-1		1.50	2	20	12	12	12	3/4	С		FACP	0.50	1	20	12	12	12	3/4	E
Н	13	-		1.50	-		12				A		IRRIG PUMP	1.40	2	30	8	8	10	3/4	E
Н	15	VAV1-2		1.00	2	20	12	12	12	3/4	В	16	-	1.40	-		8				E
Н	17	-		1.00	-		12				С		BMS	1.00	1	20	12	12	12	3/4	E
Н	19	VAV1-3		0.50	2	20	12	12	12	3/4	A		DOOR PANEL	0.50	1	20	12	12	12	3/4	Е
<u>H</u>	21	- 1		0.50	-		12	10	10	0//	В		SPACE								
<u>H</u>	23	VAV1-4		1.00	2	20	12	12	12	3/4	C		SPACE SPACE								
Н	25	- VAV1-5		1.00 1.00	-	20	12 12	12	12	3/4	A B		SPACE								
H	27 29	VAV 1-5		1.00	2	20	12	12	12	3/4	С		SPACE								
<u>п</u>		- VAV1-6		0.50	2	20	12	12	12	3/4	A		SPACE							-	
H	33	-		0.50		20	12	12	12	3/4	В		SPACE								
H	35	VAV1-7		1.00	2	20	12	12	12	3/4	C		SPACE								
H	37	-		1.00		20	12	'-	'-	0/-	A		SPD		3	30					
		SPARE			1	20	<del>-</del>				В	40									
		SPARE			1	20					С	42									
	PHAS PHAS PHAS	SE B:	MMARY				7.6 8.9	KVA KVA KVA													
Code			IT SERVED	co	NN. LO	AD		DF	1	DES	IGN L	OAD	REMARKS:								
M/3/2		Mot	taua.		0.00		4/	00%			0.00		- PROVIDE GROUND BUS	O NICLITO AL	DUIC						
VI/ 3/ Z			t Motor		0.00			25%			0.00		- PROVIDE GROUND BOS								
L			nting		9.80			25% 25%			12.25		* EXTERIOR LTG CONTRO			DUOTO	CELL	. 120\	/ DEL A	V TVD	
R																					
		•	(1st 10 kVA)		0.00			00%			0.00		WITH INTEGRAL SURGE A	NESTUR	AND AL	JJU31,	ADLE !	o i ⊏IVI	IVIO OIN	11.	
R			(Remaining)		12.00			0%			13.00		** DDO\/IDE ADO EALILE DI	DEAKED							
H C			Heating 13.00					00%					** PROVIDE ARC FAULT BREAKER  (L) PROVIDE LOCK-ON DEVICE								
	Cooling 0.00						00%			0.00		(L) PROVIDE LOCK-ON DE	VIUE								
E	Equipment 4.80						00%			4.80											
Α			ances		0.00			00%			0.00										
0		Ot	her		0.00		10	00%			0.00										
		20%	Spare		6.01		10	00%			6.01										
							TOTA				36										
	l						TOTAL A	AMPS			100										





ECT: STATION #7
INDIAN RIVER COUNTY FIRE DI

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COMM. NO: O5O219VB

DATE: 16 MAY 2O22

BY: XXX

CH'KD: KGL

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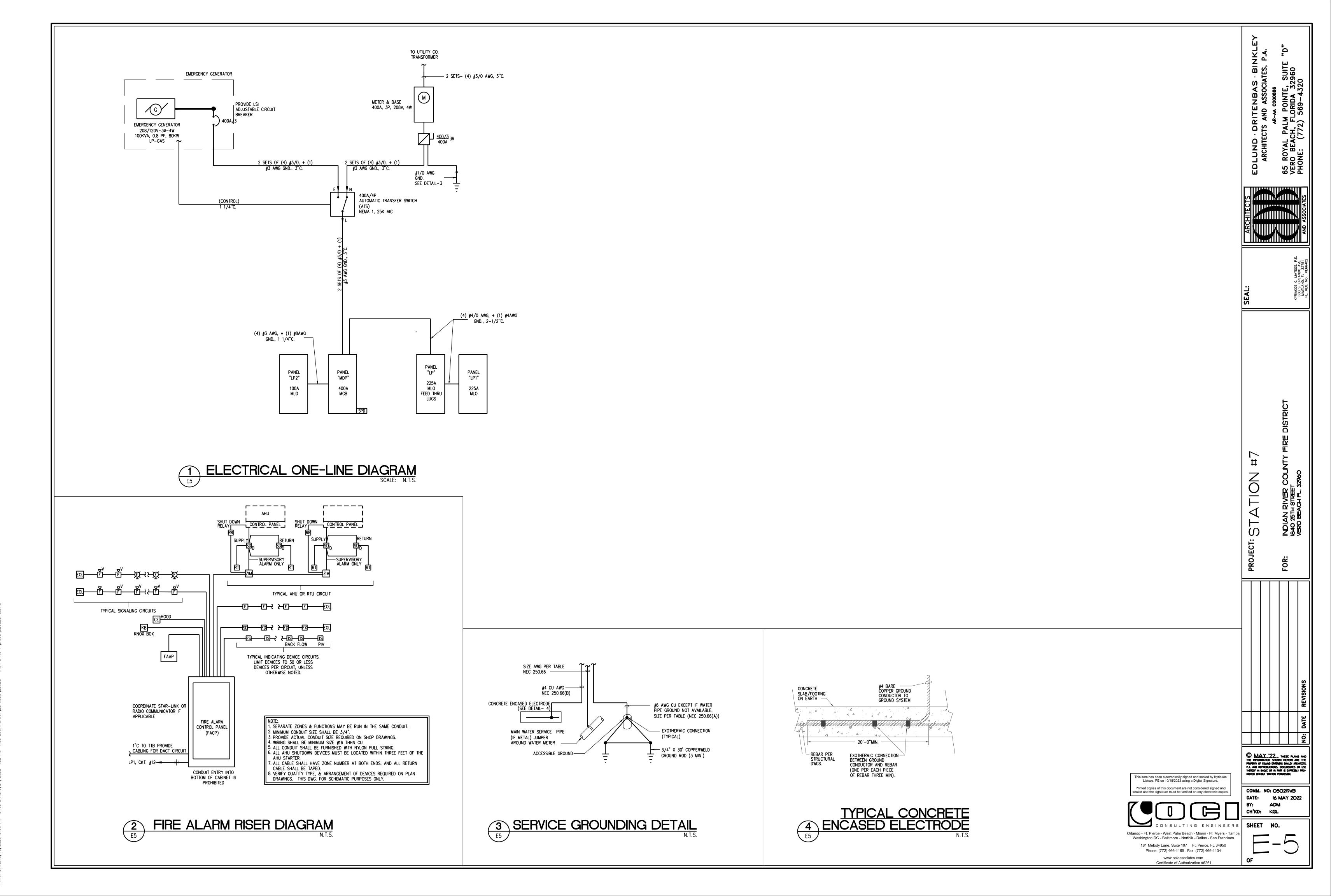
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PRINT DATE:10/18/2023 3:06 PM SAVE DATE:6/24/2022 4:22 PM FILF LOCATION: F\22 .IORS\22022 - IRC FS NO 7\DWGS\22022F-5 DW

U.L. SYSTEM NO. WL1001

THE PIPE AND ANCHOR IT IN PLACE.

IS NOT SLEEVED, INSTALL A GALVANIZED STEEL SLEEVE AROUND



1. FLOOR OR WALL ASSEMBLY - LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M3) CONCRETE. EXCEPT AS NOTED IN TABLE UNDER ITEM 4, MIN THICKNESS OF SOLID CONCRETE FLOOR OR WALL ASSEMBLY IS 4-1/2 IN. (114 MM). FLOOR MAY ALSO BE CONSTRUCTED OF ANY MIN 6 IN. (152 MM) THICK UL CLASSIFIED HOLLOW CORE PRECAST CONCRETE UNITS\*. WHEN FLOOR IS CONSTRUCTED OF HOLLOW CORE PRECAST CONCRETE UNITS, PACKING MATERIAL (ITEM 3) AND CAULK FILL MATERIAL (ITEM 4) TO BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF FLOOR, FLUSH WITH FLOOR SURFACE. WALL ASSEMBLY MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS\*. MAX DIAM OF OPENING IS IN SOLID LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE. FLOOR IS 32 IN. (813 MM). MAX DIAM OF OPENING IN FLOOR CONSTRUCTED OF HOLLOW-CORE PRECAST CONCRETE UNITS IS 7 IN. (178 MM).

SEE CONCRETE BLOCKS (CAZT) AND PRECAST CONCRETE UNITS (CFTV) CATEGORIES IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

1A. STEEL SLEEVE (OPTIONAL, NOT SHOWN) - MAX 15 IN. (381 MM) ID (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY. SLEEVE MAY EXTEND A MAX OF 2 IN. (51 MM) ABOVE TOP OF FLOOR OR BEYOND EITHER SURFACE OF WALL. MAX 16 IN. (406 MM) ID (OR SMALLER) MIN 0.028 (0.71 MM) WALL THICKNESS (OR HEAVIER) GALVANIZED STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY. SLEEVE MAY EXTEND A MAX OF 1/2 IN. (13 MM) BEYOND EITHER SURFACE OF FLOOR OR WALL.

2. THROUGH PENETRANTS - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. MAX ANNULAR SPACE BETWEEN PIPE. CONDUIT OR TUBING AND EDGE OF THROUGH OPENING OR SLEEVE IS DEPENDENT ON THE PARAMETERS SHOWN IN ITEM 4. MIN ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND EDGE OF THROUGH OPENING IS 0 IN. (0 MM) (POINT CONTACT). PIPE CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

A. STEEL PIPE - NOM 30 IN. (762 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE. B. IRON PIPE - NOM 30 IN. (762 MM) DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE. C. CONDUIT - NOM 6 IN. (152 MM) DIAM (OR SMALLER) RIGID STEEL CONDUIT. D. CONDUIT - NOM 4 IN. (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING. E. COPPER - TUBING NOM 6 IN. (152 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBE. F. COPPER PIPE - NOM 6 IN. (152 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

3. PACKING MATERIAL - POLYETHYLENE BACKER ROD OR NOM 1 IN. (25 MM) THICKNESS OF TIGHTLY-PACKED MINERAL WOOL BATT OR GLASS FIBER INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF CAULK FILL MATERIAL (ITEM 4).

4. FILL, VOID OR CAVITY MATERIAL\* - CAULK OR SEALANT - APPLIED TO FILL THE ANNULAR SPACE FLUSH WITH TOP SURFACE OF FLOOR. IN WALL ASSEMBLIES, REQUIRED CAULK THICKNESS TO BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL, FLUSH WITH WALL SURFACE. AT POINT CONTACT LOCATION BETWEEN PENETRANT AND SLEEVE OR BETWEEN PENETRANT AND CONCRETE, A MIN 1/4 IN. (6 MM) DIAM BEAD OF CAULK SHALL BE APPLIED AT TOP SURFACE OF FLOOR AND AT BOTH SURFACES OF WALL. THE HOURLY F RATINGS AND THE MIN REQUIRED CAULK THICKNESSES ARE DEPENDENT UPON A NUMBER OF PARAMETERS, AS SHOWN IN THE FOLLOWING TABLE:

Min Floor or Wall Thkns In. (mm)	Nom Pipe Tube or Conduit Diam in. (mm)	Max Annular Space in. (mm)	Min Caulk Thkns in. (mm)	F Rating Hr
2-1/2 (64)	1/2-12 (13-305)	1-3/8 (35)	1/2 (13)	2
2-1/2 (64)	1/2-12 (13-305)	3-1/4 (83)	1 (25)	2
4-1/2 (114)	1/2-6 (13-152)	1-3/8 (35)	1/4 (6) (a)	2
4-1/2 (114)	1/2-12 (13-305)	1-1/4 (32)	1/2 (13)	3
4-1/2 (114)	1/2-20 (13-508)	2 (51)	1 (25)	3
4-1/2 (114)	1/2-20 (13-508)	2 (51)	1 (25)	3
4-1/2 (114)	1/2-12 (13-305)	3-1/4 (83)	1 (25)	3
4-1/2 (114)	22-30 (558-762)	2 (51)	2 (51)	3
5-1/2 (140)	1/2-6 (13-152)	1-3/8 (35)	1 (25) (b)	4

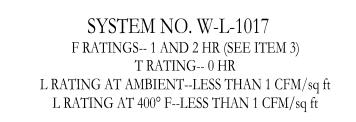
(A)MIN 2 IN. (51 MM) THICKNESS OF MINERAL WOOL BATT INSULATION REQUIRED IN ANNULAR SPACE. (B)MIN 1 IN. (25 MM) THICKNESS OF MINERAL WOOL BATT INSULATION REQUIRED IN ANNULAR SPACE ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. MIN 1 IN. (25 MM) THICKNESS OF CAULK TO BE INSTALLED FLUSH WITH EACH SURFACE OF FLOOR OR WALL ASSEMBLY.

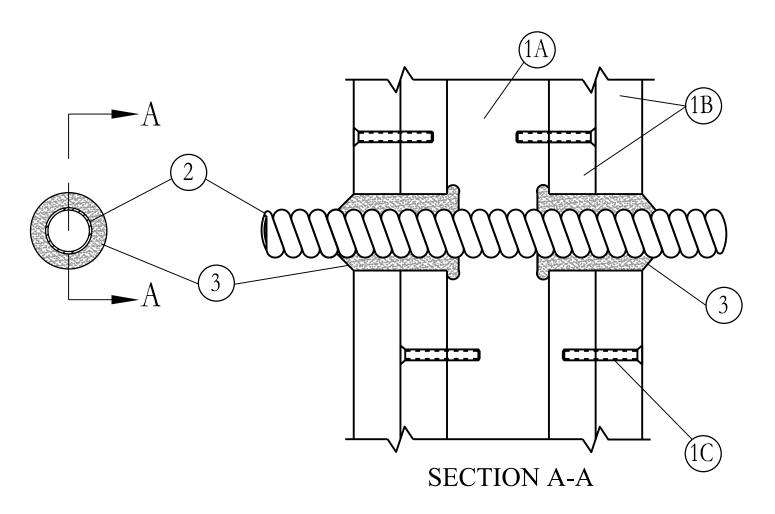
3M COMPANY - CP 25WB+ CAULK OR FB-3000 WT SEALANT. (NOTE: W RATING APPLIES ONLY WHEN FB-3000 WT SEALANT IS USED.)

\*BEARING THE UL CLASSIFICATION MARKING

**SECTION A-A** 







MC THRU GYP BOARD **2 PENETRATION DETAIL** 

1. WALL ASSEMBLY - THE 1 OR 2 HR FIRE RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC WITH NOM 2 BY 4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX 24 IN. OC.

B. GYPSUM BOARD\* - NOM 5/8 IN. THICK, 4 FT. WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, NUMBER OF LAYERS AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. DIAM OF CIRCULAR THROUGH OPENING CUT THROUGH GYPSUM WALLBOARD ON EACH SIDE OF WALL ASSEMBLY TO BE MIN O IN. (POINT CONTACT) TO MAX 1 IN. LARGER THAN OUTSIDE DIAM OF FLEXIBLE METAL CONDUIT (ITEM 2) INSTALLED IN THROUGH OPENING. SIDE EDGE OF CIRCULAR OPENING TO BE MIN 3 IN. FROM NEAREST STUD IN WALL CAVITY.

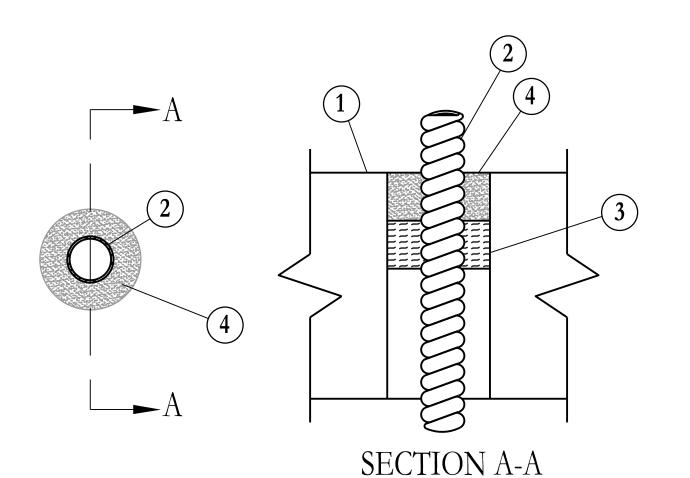
C. FASTENERS - WHEN WOOD STUD FRAMING IS EMPLOYED, GYPSUM WALLBOARD ATTACHED TO STUDS WITH CEMENT COATED NAILS AS SPECIFIED IN THE INDIVIDUAL WALL OR PARTITION DESIGN. WHEN STEEL CHANNEL STUD FRAMING IS EMPLOYED, GYPSUM WALLBOARD ATTACHED TO STUDS WITH TYPE S SELF-DRILLING, SELF-TAPPING BUGLE-HEAD STEEL SCREWS AS SPECIFIED IN THE INDIVIDUAL WALL OR PARTITION

2. THROUGH PENETRATING PRODUCT\* - FLEXIBLE METAL CONDUIT -NOM 4 IN. DIAM (OR SMALLER) ALUMINUM OR STEEL FLEXIBLE METAL CONDUIT+, MAX ONE FLEXIBLE METAL CONDUIT TO BE INSTALLED NEAR CENTER OF CIRCULAR OPENING IN GYPSUM WALLBOARD. FLEXIBLE METAL CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL AFC CABLE SYSTEMS INC

3. FILL, VOID OR CAVITY MATERIAL\* - CAULK - CAULK FILL MATERIAL FORCED INTO ANNULAR SPACE AROUND ENTIRE CIRCUMFERENCE OF THROUGH PENETRATING PRODUCT TO COMPLETELY FILL OPENING IN GYPSUM WALLBOARD LAYERS ON EACH SIDE OF THE WALL ASSEMBLY. A MIN 5/8 IN. THICKNESS OF CAULK IS REQUIRED FOR THE 1 HR F RATING. A MIN 1-1/4 IN. THICKNESS OF CAULK IS REQUIRED FOR THE MINNESOTA MINING & MFG CO - CP 25WB+ \*BEARING THE UL CLASSIFICATION MARKING

SYSTEM NO C-AJ-1052 (FORMERLY SYSTEM NO. 337) F RATING--2 HR

T RATING--0 HR



1. FLOOR OR WALL ASSEMBLY - MIN 4-1/2 IN. THICK LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS\*, DIAM OF CIRCULAR THROUGH OPENING IN FLOOR OR WALL ASSEMBLY TO BE 3/4 IN. TO 1-1/2 IN. LARGER THAN DIAM OF FLEXIBLE METAL CONDUIT (ITEM 2) INSTALLED IN THROUGH OPENING. MAX DIAM OF OPENING IS 6

SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

2. THROUGH PENETRATING PRODUCT\* - NOM 4 IN. DIAM (OR SMALLER) ALUMINUM OR STEEL FLEXIBLE METAL CONDUIT+. MAX ONE FLEXIBLE METAL CONDUIT TO BE INSTALLED NEAR CENTER OF CIRCULAR THROUGH OPENING IN FLOOR OR WALL ASSEMBLY. FLEXIBLE METAL CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. AFC CABLE SYSTEMS INC

3. PACKING MATERIAL - NOM 1 IN. THICKNESS OF CERAMIC (ALUMINA SILICA) FIBER BLANKET OR MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM, PACKING MATERIAL TO BE RECESSED MIN 1 IN. FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL.

4. FILL, VOID OR CAVITY MATERIAL\* - CAULK - APPLIED TO FILL THE ANNULAR SPACE AROUND THE FLEXIBLE METAL CONDUIT, IN FLOORS, A MIN 1 IN. DEPTH OF FILL MATERIAL TO BE INSTALLED FLUSH WITH TOP SURFACE OF FLOOR. IN WALLS, A MIN 1 IN. DEPTH OF FILL MATERIAL TO BE INSTALLED FLUSH WITH WALL SURFACE ON BOTH SIDES OF WALL

MINNESOTA MINING & MFG CO - CP 25WB+ \*BEARING THE UL CLASSIFICATION MARKING \*\*PLEASE REFER TO THE LETTER FROM UL ON PAGE 11.

MC THRU CONCRETE **4 PENETRATION DETAIL** 

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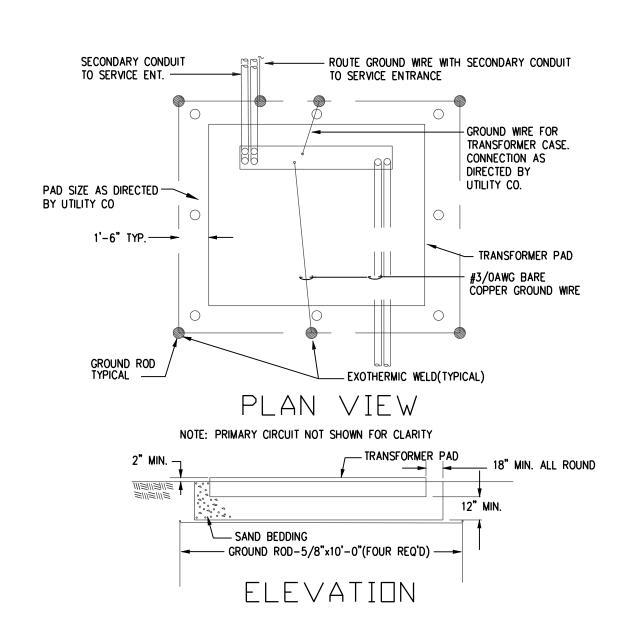
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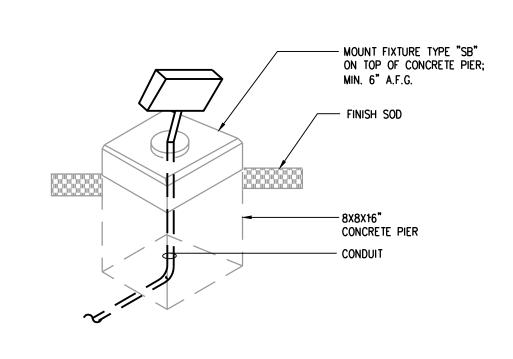
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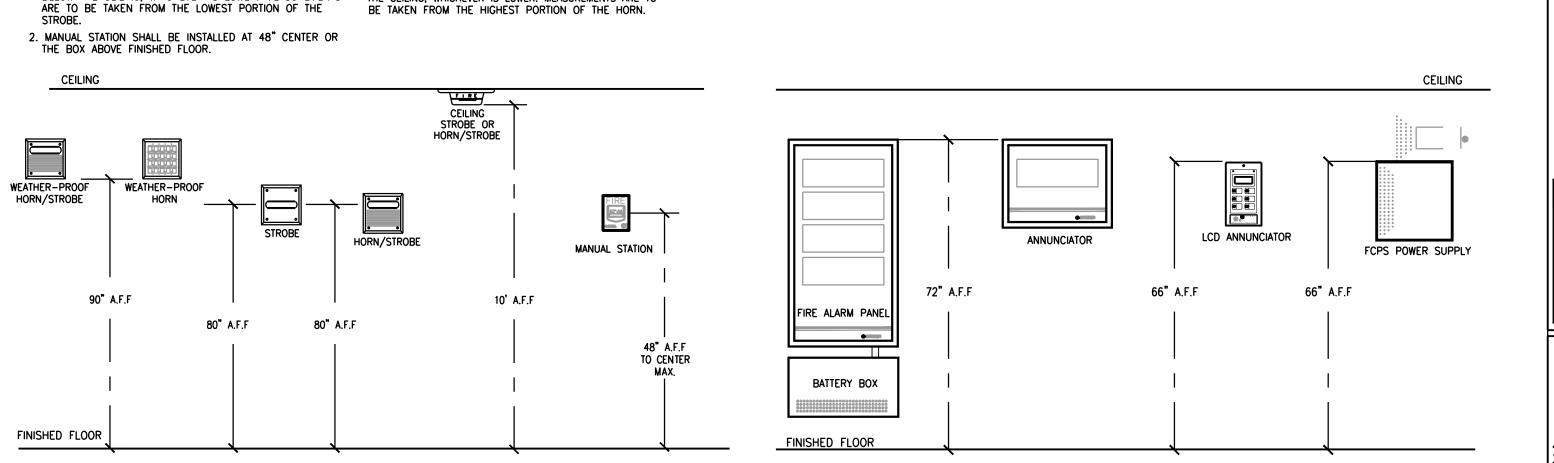
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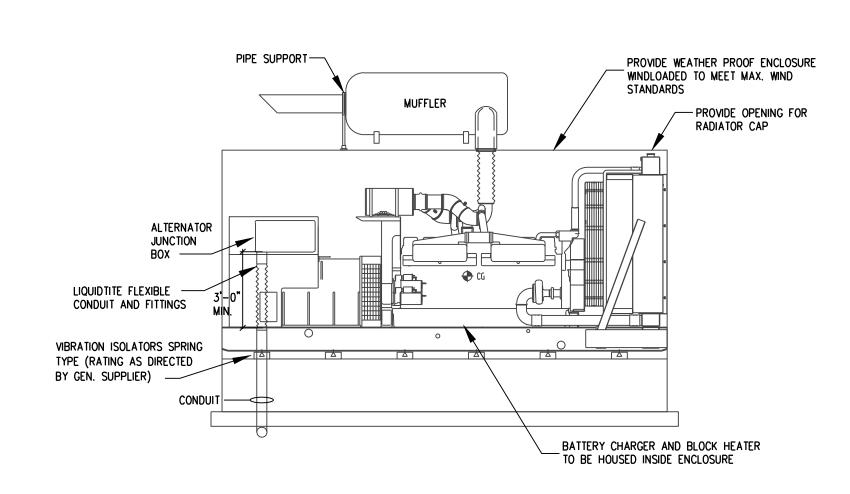






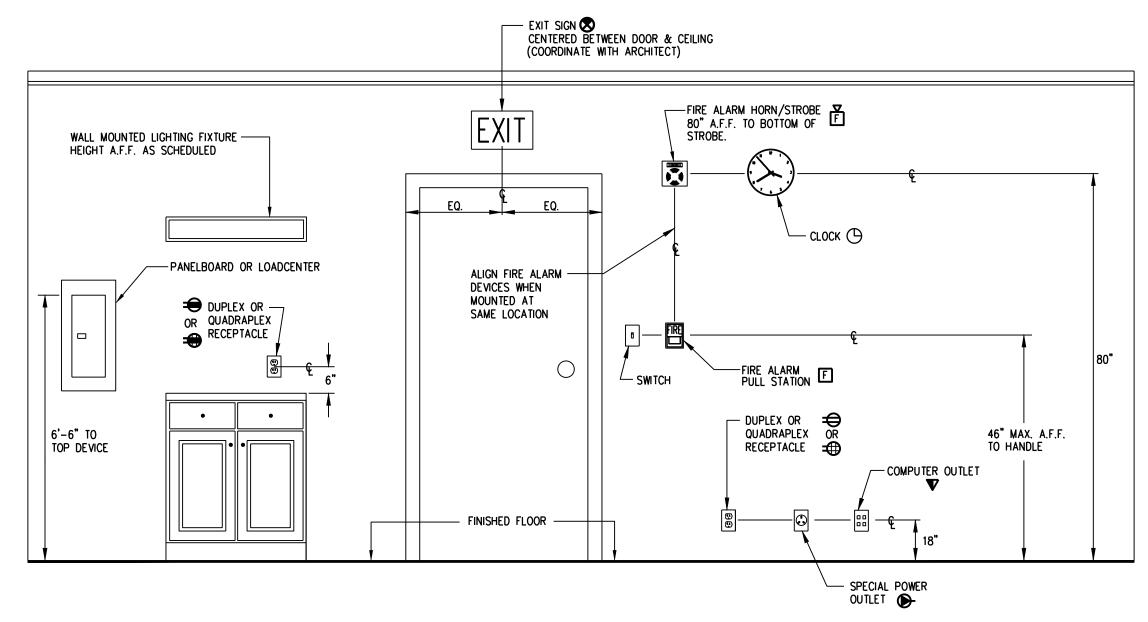


FIRE ALARM DEVICE AND PANEL MOUNTING ELEVATIONS



1. STROBES AND HORN/STROBES SHALL BE WALL MOUNTED A MINIMUM OF 80" ABOVE THE FLOOR OR 6" MINIMUM BELOW THE CEILING, WHICHEVER IS LOWER. MEASUREMENTS

3. WEATHER-PROOF HORN/STROBE SHALL BE WALL MOUNTED A MINIMUM OF 90" ABOVE FLOOR OR 6" MINIMUM BELOW THE CEILING, WHICHEVER IS LOWER. MEASUREMENTS ARE TO



GENERATOR ELEVATION
N.T.S.

TYPICAL SYSTEMS OUTLET **6 MOUNTING HEIGHTS DETAIL** 

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