

LIGHT FIXTURE SCHEDULE				
TYPE	SYMBOL	DESCRIPTION	MANUFACTURER	REFERENCE CATALOG #
A1		2X4 LED FLAT PANEL. 36W, 4700 LUMENS, 5000K CT. 0-10V DIMMING.	LITHONIA	CPX 2X4 AL08 80CRI SWW7 SWL MVOLT
A1E		2X4 LED FLAT PANEL. 36W, 4700 LUMENS, 5000K CT. 0-10V DIMMING. 90 MINUTE BATTERY BACKUP.	LITHONIA	CPX 2X4 AL08 80CRI SWW7 SWL MVOLT E10W
A2		2X4 LED FLAT PANEL. 48W, 6000 LUMENS, 5000K CT. 0-10V DIMMING.	LITHONIA	CPX 2X4 AL08 80CRI SWW7 SWL MVOLT
A2E		2X4 LED FLAT PANEL. 48W, 6000 LUMENS, 5000K CT. 0-10V DIMMING. 90 MINUTE BATTERY BACKUP.	LITHONIA	CPX 2X4 AL08 80CRI SWW7 SWL MVOLT E10W
B		1X4 LED FLAT PANEL. 32W, 4000 LUMENS, 3500K CT. 0-10V DIMMING.	LITHONIA	CPX 1X4 AL07 80CRI SWW7 SWL MVOLT DGA14
BE		1X4 LED FLAT PANEL. 32W, 4000 LUMENS, 3500K CT. 0-10V DIMMING. 90 MINUTE BATTERY BACKUP.	LITHONIA	CPX 1X4 AL07 80CRI SWW7 SWL MVOLT E10W DGA14
C1		4" LED DOWNLIGHT. 9W, 1000 LUMENS, 3500K CT. 0-10V DIMMING.	LITHONIA	LBRR6 NCH AL01 SWW1 AR LSS WD MVOLT UGZ
C2		6" LED DOWNLIGHT. 13W, 1400 LUMENS, 3500K CT. 0-10V DIMMING.	LITHONIA	LBRR6 NCH AL02 SWW1 AR LSS WD MVOLT UGZ
C2E		6" LED DOWNLIGHT. 13W, 1400 LUMENS, 3500K CT. 0-10V DIMMING. 90 MINUTE BATTERY BACKUP.	LITHONIA	LBRR6 NCH AL02 SWW1 AR LSS WD MVOLT UGZ E10WCPR
C3		6" LED DOWNLIGHT. 13W, 1400 LUMENS, 3500K CT. 0-10V DIMMING. WET LISTED.	LITHONIA	LBRR6 NCH AL02 SWW1 AR LSS WD MVOLT UGZ10 WL
C3E		6" LED DOWNLIGHT. 13W, 1400 LUMENS, 3500K CT. 0-10V DIMMING. WET LISTED. 90 MINUTE BATTERY BACKUP.	LITHONIA	LBRR6 NCH AL02 SWW1 AR LSS WD MVOLT UGZ10 WL
EX		LED EXIT SIGN BRUSHED ALUMINUM FACE WITH RED LETTERS, UNIVERSAL FACE AND MOUNTING, 90 MINUTE BATTERY BACKUP.	LIFE SAFETY LIGHTING	LSXDC 3 R A A EM SDT
L1		8" RECESSED LINEAR LED 4.5W/FT, 541 LUMENS/FT, 3500K CT. 0-10V DIMMING.	A-LIGHT	G5 M8' LS 35K U HE XP T D
L1E		8" RECESSED LINEAR LED 4.5W/FT, 541 LUMENS/FT, 3500K CT. 0-10V DIMMING. 90 MINUTE BATTERY BACKUP.	A-LIGHT	G5 M8' LS 35K U HE XP T D E2
L2		12" SUSPENDED LINEAR LED 12W/FT, 1337 LUMENS/FT, 3500K CT. 0-10V DIMMING.	A-LIGHT	G3 M12' LH 35K U HE U S72" T D
L3		16" SUSPENDED LINEAR LED 12W/FT, 1337 LUMENS/FT, 3500K CT. 0-10V DIMMING.	A-LIGHT	G3 M16' LH 35K U HE U S72" T D
L3E		16" SUSPENDED LINEAR LED 12W/FT, 1337 LUMENS/FT, 3500K CT. 0-10V DIMMING. 90 MINUTE BATTERY BACKUP.	A-LIGHT	G3 M16' LH 35K U HE U S72" T D BATTERY BACKUP: LVS - CEPS-150-RT
L4		24" RECESSED LINEAR LED 19W/FT, 1720 LUMENS/FT, 3500K CT. 0-10V DIMMING.	A-LIGHT	G5 M24' LVH 40 U HE XP T D Q
L4E		24" RECESSED LINEAR LED 19W/FT, 1720 LUMENS/FT, 3500K CT. 0-10V DIMMING. 90 MINUTE BATTERY BACKUP.	A-LIGHT	G5 M24' LVH 40 U HE XP T D Q BATTERY BACKUP: LVS - CEPS-250-RT
R		8"x8" SQUARE LED FIXTURE. 13.5W/FT, 400 LUMENS/FT, 3500K CT. 0-10V DIMMING.	A-LIGHT	ACL5 PR8 C400 35 U HE X W D
RE		8"x8" SQUARE LED FIXTURE. 13.5W/FT, 400 LUMENS/FT, 3500K CT. 0-10V DIMMING. 90 MINUTE BATTERY BACKUP.	A-LIGHT	ACL5 PR8 C400 35 U HE X W D BATTERY BACKUP: LVS - CEPS-250-RT
S		4" LED STRIP FIXTURE. 35W, 5000 LUMENS, 4000K CT. MULTIPLE MOUNTING TYPES.	LITHONIA	CSS L48 AL03 MVOLT SWW3 80CRI
SE		4" LED STRIP FIXTURE. 35W, 5000 LUMENS, 4000K CT. MULTIPLE MOUNTING TYPES. 90 MINUTE BATTERY BACKUP.	LITHONIA	CSS L48 AL03 MVOLT SWW3 80CRI IEW10WCPHE
V		2" LED VANITY FIXTURE 18W, 1700 LUMENS, 3500K CT 0-10V DIMMING	LITHONIA	FMVCLS 24IN MVOLT 30K35K40K 90CRI BN

GENERAL NOTES:  
EQUIVALENT ALTERNATE LIGHT FIXTURES MAY BE PROVIDED FOR BIDDING PURPOSES. THE ENGINEER DOES NOT TAKE RESPONSIBILITY FOR ENSURING ALTERNATE LIGHT FIXTURES USED FOR BIDDING ARE EQUAL; THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALTERNATE FIXTURES ARE EQUIVALENT TO THOSE SPECIFIED PRIOR TO BID. THE WINNING BID PACKAGE SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW IN ACCORDANCE WITH THE SPECIFICATIONS.

LIGHT FIXTURE SCHEDULE (CONT.)				
TYPE	SYMBOL	DESCRIPTION	MANUFACTURER	REFERENCE CATALOG #
WS1		4" ROUND LED WALL SCONCE 31W, 1500 LUMENS UP AND DOWN, 4000K CT. 0-10V DIMMING. WET LISTED.	GOTHAM	IC04UDWC 40/15 AR LSS 20D SHLD SDDB U15LM U20D USHLD USDDB MVOLT GZ10 JBX WL
WS2		4" ROUND LED WALL SCONCE 15W, 1500 LUMENS DOWN, 4000K CT. 0-10V DIMMING. WET LISTED.	GOTHAM	IC04UDWC 40/15 AR LSS 20D SHLD SDDB MVOLT GZ10 JBX WL
WW		12" LED WALL WASH 9.7W/FT, 771 LUMENS/FT, 3500K CT. 0-10V DIMMING.	A-LIGHT	ACL3ST M12 LH 35 U WW WA12" B D

ELECTRICAL ABBREVIATIONS			
AC	ABOVE COUNTERTOP	MC	MECHANICAL CONTRACTOR
AFF	ABOVE FINISH FLOOR	MCA	MINIMUM CIRCUIT AMPS
AFG	ABOVE FINISH GRADE	MCB	MAIN CIRCUIT BREAKER
ANNC	ANNUNCIATOR	MDP	MAIN DISTRIBUTION PANEL
CC	CONTROLS CONTRACTOR	MLO	MAIN LUG ONLY
DF	DRINKING FOUNTAIN	MTD	MOUNTED
EC	ELECTRICAL CONTRACTOR	NIC	NOT IN CONTRACT
EF	EXHAUST FAN	OCC	OCCUPANCY
ERMS	ENERGY REDUCTION MAINTENANCE SWITCH	PC	PLUMBING CONTRACTOR
EX	EXISTING	PNL	PANEL
EXR	EXISTING RELOCATED	SPST	SINGLE POLE SINGLE THROW
GC	GENERAL CONTRACTOR	TTB	TELEPHONE TERMINAL BOARD
GFI	GROUND FAULT INTERRUPT	TYP	TYPICAL
HP	HORSEPOWER	WG	WIRE GUARD
IBC	INTERNATIONAL BUILDING CODE	WP	WEATHER PROOF
IG	ISOLATED GROUND	20A	20 AMP
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, AND GROUND	Ø	PHASE
LV	LOW VOLTAGE	3W	3 WIRE
LVRP	LV RELAY PANEL	1P20A	SINGLE POLE 20 AMP

SWITCH LEGEND	
SYMBOL	DESCRIPTION
	20A, 120/277V SPST SWITCH
	20A, SPST SWITCH
	20A, 120/277V LETTER INDICATES GROUP
	20A, 120/277V 3-WAY
	20A, 120/277V 4-WAY
	DIMMER SWITCH
	KEY OPERATED SWITCH
	OCCUPANCY SENSOR SWITCH

GENERAL NOTE:  
SEE SPECIFICATIONS FOR MANUFACTURERS

RECEPTACLE SCHEDULE	
SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE
	20A, 120V, 2P, 3W GROUNDING DUPLEX RECEPTACLE
	RECEPTACLE MTD. 6" ABOVE COUNTER OR HGT SHOWN
	GFCI RECEPTACLE
	GFCI RECEPTACLE, MTD. 6" ABOVE COUNTER OR HGT SHOWN
	20A, 120V, 2P, 3W GROUNDING DUPLEX GFCI RECEPTACLE - WEATHER PROOF (IN USE COVER)
	FLOOR BOX
	JUNCTION BOX, AS NOTED
	QUADPLEX RECEPTACLE

GENERAL NOTE:  
SEE SPECIFICATIONS FOR MANUFACTURERS

GENERAL ELECTRICAL NOTES	
1.	CONTRACTOR TO VERIFY EXISTING ELECTRICAL CONDITIONS AND NOTIFY ARCHITECT/ENGINEER OF ANY ELECTRICAL OR CODE ISSUES PRIOR TO BID. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL CODE COMPLIANT SYSTEM.
2.	ALL WORK SHALL BE IN CONFORMANCE WITH NATIONAL, STATE, AND LOCAL CODES AND/OR ORDINANCES.
3.	ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER CONTRACTORS & LOCAL UTILITY, E.G. SHALL CONTACT LOCAL UTILITY FOR EXACT SERVICE REQUIREMENTS TO INCLUDE BUT NOT LIMITED TO TRANSFORMER, METERING AND CABLING. LOCAL UTILITY REQUIREMENTS SUPERSEDE DRAWINGS AND SPECIFICATIONS.
4.	SEE ARCHITECTURAL, MECHANICAL, & PLUMBING DRAWINGS FOR ADDITIONAL REQUIREMENTS.
5.	ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. THEY ARE INTENDED TO GIVE APPROXIMATE LOCATIONS AND OVERALL DESIGN INTENT. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PRODUCTS, MATERIALS, AND ELECTRICAL METHODS WHICH HAVE NOT BEEN SHOWN OR INDICATED BUT ARE REQUIRED FOR A COMPLETE SYSTEM TO THE STANDARDS OF THE INDUSTRY.
6.	INSTALL LIGHTING FIXTURES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE SUPPORTING DEVICES FOR ADEQUATE SUPPORT OF FIXTURES FROM STRUCTURE.
7.	UPON COMPLETION OF THE ELECTRICAL WORK, THE INSTALLATION SHALL BE TESTED FOR CONTINUITY, GROUNDS, AND SHORT CIRCUITS. THE ELECTRICAL CONTRACTOR SHALL DEMONSTRATE PROPER PERFORMANCE OF ALL SYSTEMS. ALL DEFECTIVE WORK OR MATERIALS SHALL BE REPLACED OR REPAIRED AS NECESSARY AND RETESTED.
8.	ELECTRICAL RACEWAYS THAT PENETRATE FIRE RATED ASSEMBLIES SHALL BE SLEEVED AND SEALED AS PER THE LOCAL BUILDING CODE.
9.	THE ELECTRICAL CONTRACTOR SHALL PROVIDE A TEMPORARY ELECTRICAL SYSTEM FOR THE PROJECT. AT LEAST ONE 120 VOLT SINGLE PHASE RECEPTACLE SHALL BE PROVIDED FOR EACH 500 SQUARE FEET OF FLOOR SPACE. SUFFICIENT TEMPORARY LIGHTING SHALL BE PROVIDED TO ALLOW ALL CONTRACTORS TO COMPLETE THEIR WORK. TEMPORARY ELECTRICAL CIRCUITS SHALL BE EQUIPPED WITH COMBINATION GROUND FAULT INTERRUPTER AND CIRCUIT BREAKER PER NEC. TEMPORARY ELECTRICAL SYSTEM SHALL BE INCLUDED IN THIS BID. USAGE CHARGES SHALL BE PAID FOR BY THE GENERAL CONTRACTOR.

ELECTRICAL LEGEND	
	PANEL BOARD
	DISTRIBUTION PANEL BOARD
	TRANSFORMER
	UTILITY METER
	SEPARATE CIRCUIT BREAKER
	DISCONNECT
	FUSED DISCONNECT SWITCH
	EMERGENCY FUSED DISCONNECT SWITCH
	MOTOR STARTER/CONTRACTOR
	COMBINATION MOTOR STARTER
	PUSH BUTTON STATION AS NOTED
	PULL BOX, SIZE AS REQUIRED BY CODE
	ELECTRICAL CONNECTION
	MOTOR CONNECTION
	HOME RUN TO PANEL BOARD
	REMOTE BLANK FACE GFCI DEVICE

ELECTRICAL SHEET INDEX	
E000	ELECTRICAL TITLE SHEET
ED101	ELECTRICAL DEMOLITION PLAN
E001	ELECTRICAL INFRASTRUCTURE PLAN
E101	ELECTRICAL LIGHTING PLAN
E201	ELECTRICAL POWER PLAN
E202	ELECTRICAL ROOF PLAN
E401	ELECTRICAL ONE-LINE DIAGRAM
E501	ELECTRICAL DETAILS
E601	ELECTRICAL SCHEDULES

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CEDAR CREEK

CIVIL

KFC ENGINEERING

STRUCTURAL

SALAS O'BRIEN

MECHANICAL / ELECTRICAL



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AUGUST 2025

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revisions



WESTMOORE HIGH  
SCHOOL ENTRY  
UPGRADES

sheet no:

**E000**



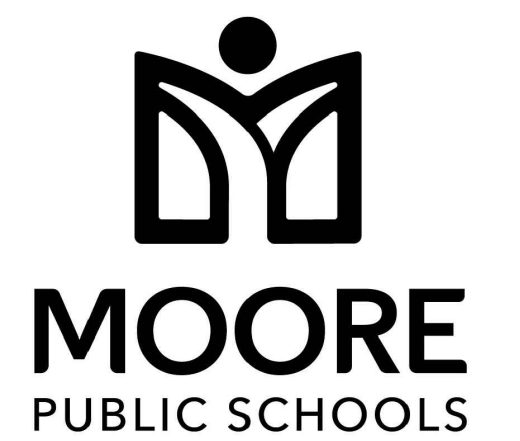
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WESTMOORE HIGH SCHOOL ENTRY UPGRADES

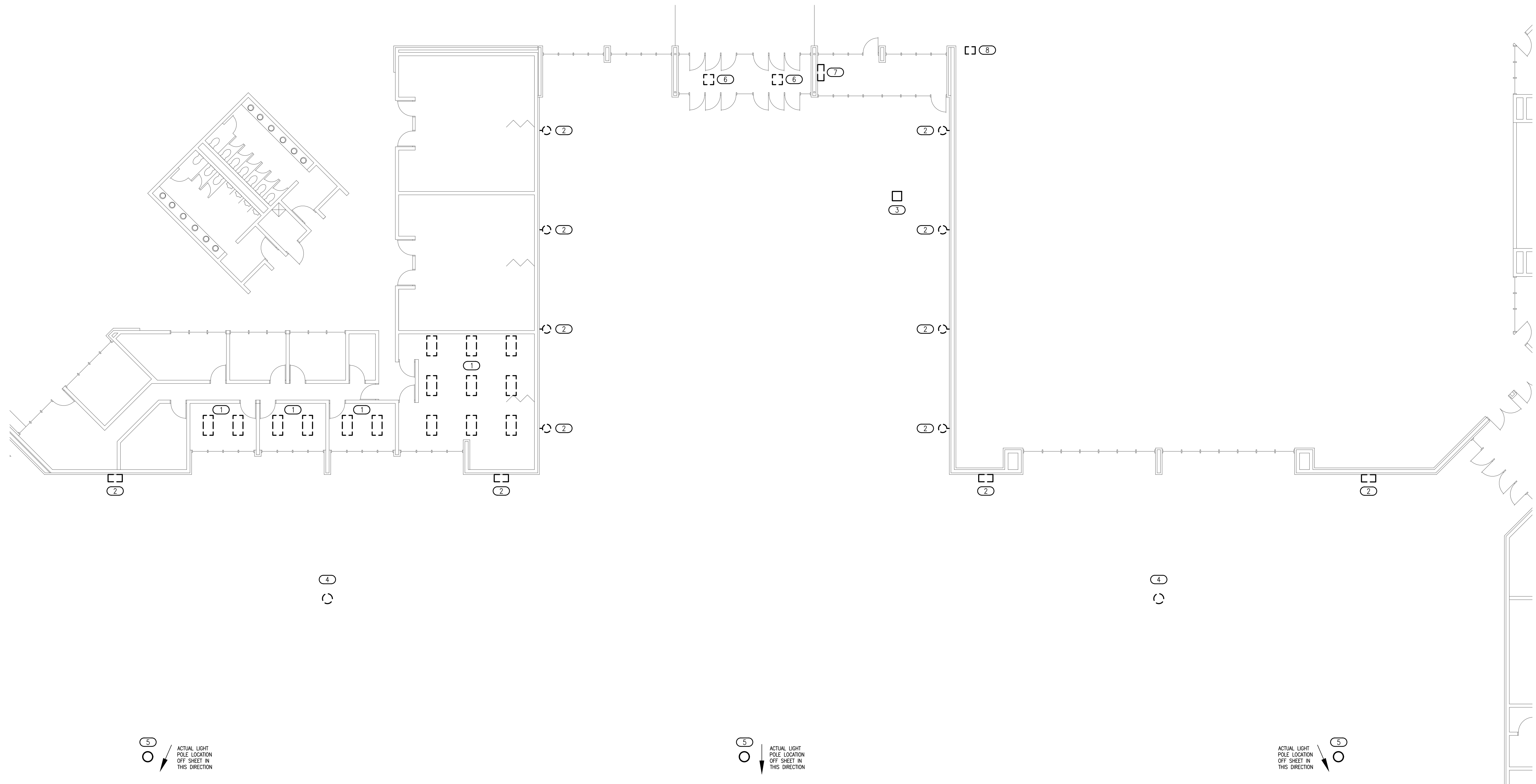
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## ED101

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- ### KEYED NOTES
- 1 DEMOLISH EXISTING LIGHT FIXTURES AND CONTROLS IN THIS AREA. RETAIN EXISTING CIRCUITING. REFER TO SHEET "E101" FOR ADDITIONAL INFORMATION.
  - 2 DEMOLISH EXISTING WALL PACK AND ASSOCIATED FEEDERS BACK TO NEAREST J-BOX.
  - 3 EXISTING PULL-BOX BELIEVED TO FEED EXISTING SITE LIGHTING. VERIFY BOX CONNECTION AND RELOCATE OUTSIDE OF THE ADDITION FOOTPRINT AS REQUIRED. COORDINATE ANY ANOMALIES WITH THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING. REFER TO "E201" FOR ADDITIONAL INFORMATION.
  - 4 DEMOLISH EXISTING SITE LIGHTING AT THIS LOCATION. MAINTAIN EXISTING CIRCUIT CONTINUITY TO EXISTING SITE LIGHTING THAT REMAINS. REFER TO KEYED NOTE #5 FOR MORE INFORMATION.
  - 5 EXISTING SITE LIGHTING AT THIS LOCATION TO REMAIN. PROVIDE NEW CONDUIT AND WIRE AS REQUIRED TO MAINTAIN EXISTING CIRCUIT CONTINUITY.
  - 6 DEMOLISH EXISTING HEATER AND ASSOCIATED FEEDERS BACK TO SOURCE PANEL.
  - 7 DEMOLISH EXISTING WALL-MOUNTED FCU AND ASSOCIATED FEEDERS BACK TO SOURCE PANEL.
  - 8 DEMOLISH EXISTING CONDENSING UNIT (LOCATED ON ROOF) AND ASSOCIATED FEEDERS BACK TO SOURCE PANEL.

- ### GENERAL NOTES
1. THESE DEMOLITION PLANS HAVE BEEN PREPARED TO ASSIST THE CONTRACTOR IN DETERMINING THE SCOPE OF DEMOLITION WORK TO BE INCLUDED IN THIS PROJECT. THE CONTRACTOR SHOULD REVIEW ALL DRAWINGS AND SPECIFICATIONS, INCLUDING DEMOLITION SHOWN FOR OTHER TRADES, AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS, IN ORDER TO DETERMINE THE SCOPE OF DEMOLITION WORK.
  2. EXISTING LIGHT FIXTURES, SWITCHES, AND LIGHTING DEVICES SHALL BE REMOVED AND REPLACED WITH NEW FIXTURES AS INDICATED ON E-101.
  3. EXISTING CONDUIT AND WIRING MAYBE REUSED IF IN SERVICEABLE CONDITION, OTHERWISE PROVIDE NEW CONDUIT AND WIRE AS REQUIRED. NEW DEVICES AND FIXTURES SHALL BE CIRCUITED TO NEW PANELS AS INDICATED. EC SHALL FIELD VERIFY EXISTING CONDITIONS AND REPORT ANY ANOMALIES TO THE ARCHITECT AND ENGINEER PRIOR TO PROCEEDING.
  4. DEMOLITION PLAN INFORMATION SHOWN AT TIME OF DESIGN. EC SHALL FIELD VERIFY EXISTING CONDITIONS AND MAKE ANY NECESSARY CHANGES TO COMPLETE THE WORK.
  5. REMOVE ALL UNUSED WIRING AND CONDUIT AS PART OF THE DEMOLITION PROCESS.
  6. EC SHALL UPDATE CIRCUIT DIRECTORIES IN EXISTING PANELS AS REQUIRED FOR NEW EQUIPMENT. NEW CIRCUIT DIRECTORIES ARE TO BE TYPED AND PRINTED.



# 1 ELECTRICAL DEMOLITION PLAN

SCALE: 3/32" = 1'-0"



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WESTMOORE HIGH  
SCHOOL ENTRY  
UPGRADES

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**E001**

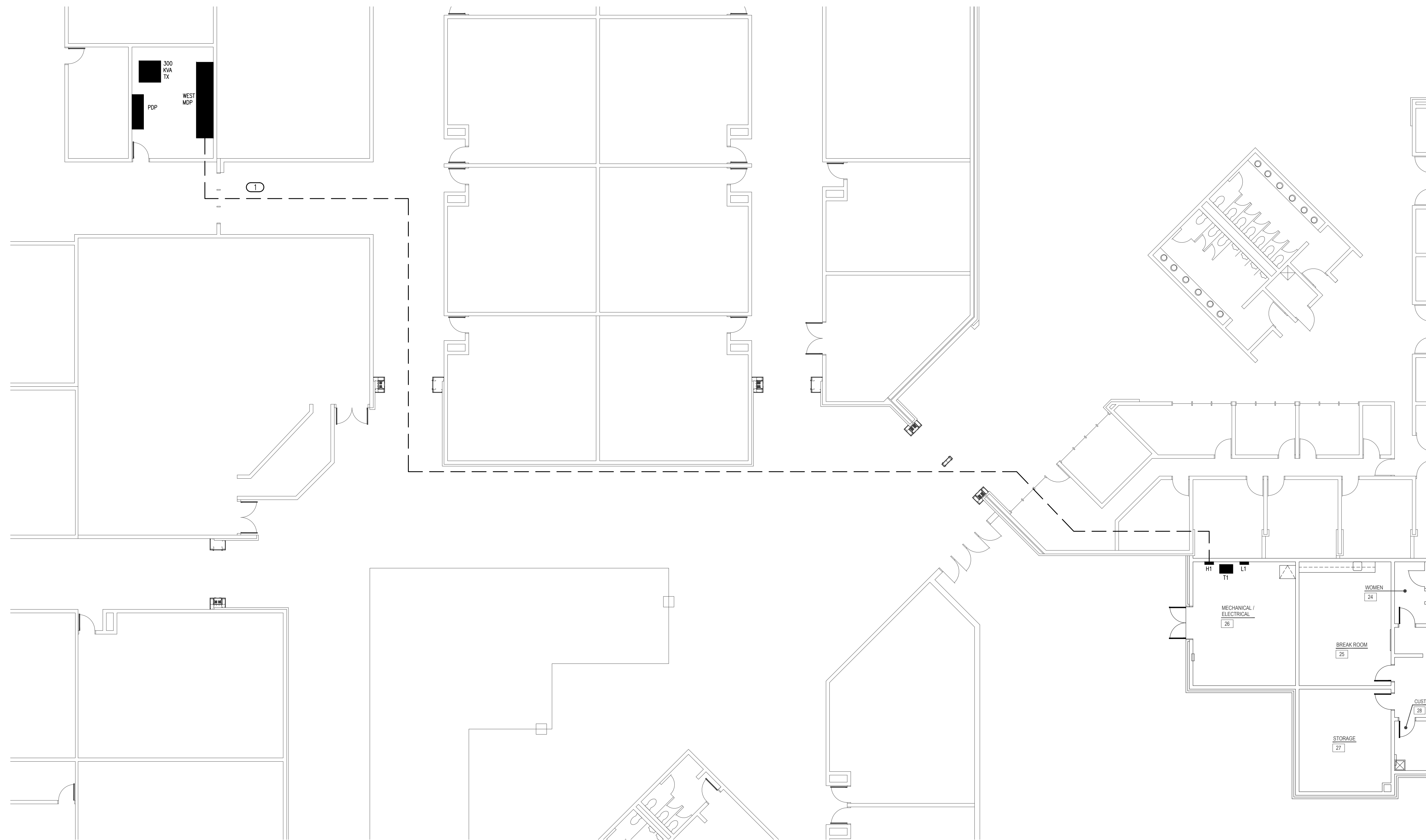
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**KEYED NOTES**

○ PROPOSED NEW CONDUIT ROUTE FROM EXISTING ELECTRICAL SWITCHBOARD "WEST MDP" TO NEW ELECTRICAL PANEL "H1". CONDUIT SHALL BE ROUTED OVERHEAD IN EXISTING BUILDING. COORDINATE ROUTE WITH EXISTING CONDITIONS AND ARCHITECT AND PROVIDE PULL-BOXES AS REQUIRED. REMOVE AND REINSTALL CEILING AS REQUIRED.

**GENERAL NOTES**

- COORDINATE EXACT LOCATIONS OF DEVICES SHOWN WITH OTHER EQUIPMENT. COORDINATE EXACT LOCATION OF CEILING MOUNTED DEVICES WITH LIGHTS, HVAC EQUIPMENT, AND OTHER DEVICES.
- FIRE STOP ALL PENETRATIONS IN FIRE AND SMOKE RATED WALLS. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS AND ADDITIONAL INFORMATION.
- THESE DRAWINGS ARE INTENDED TO BE DIAGRAMMATIC ONLY. CONSULT WITH GENERAL CONTRACTOR FOR DETAILS ON BIDDING; PROVIDE ALL PARTS AND LABOR FOR A COMPLETE AND CODE COMPLIANT FACILITY.
- ELECTRICAL CONTRACTOR TO SHOW ACTUAL ROUTING OF CONDUITS AND WIRING ON AS-BUILT DRAWINGS. ROUTES SHOWN ARE GENERAL IN NATURE AND ACTUAL ROUTE SHALL BE DETERMINED BY GENERAL CONTRACTOR AND ELECTRICAL CONTRACTOR ON SITE.



**1 ELECTRICAL INFRASTRUCTURE PLAN**  
SCALE: 3/32" = 1'-0"



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KEYED NOTES	
1	CONNECT NEW LIGHT FIXTURES IN THIS AREA TO EXISTING CIRCUITING. REFER TO SHEET 'ED101' FOR ADDITIONAL INFORMATION.
2	COORDINATE MOUNTING HEIGHT WITH THE ARCHITECT PRIOR TO INSTALLATION.
3	MOUNT EXIT SIGNS IN THIS AREA TO STORE FRONT MULLION.
4	MOUNT LIGHT FIXTURE 9' 4" TO CENTER UNLESS OTHERWISE NOTED.
5	MOUNT LIGHT FIXTURE 11' 4" TO CENTER UNLESS OTHERWISE NOTED.

GENERAL NOTES	
1.	OCCUPANCY SENSOR LOCATIONS SHOWN ARE FOR DESIGN INTENT ONLY. LOCATE OCCUPANCY SENSORS PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
2.	CONNECT BATTERY PACKS TO UNSWITCHED HOT OF LOCAL LIGHTING CIRCUIT.
3.	COORDINATE WITH ALL ASSOCIATED TRADES FOR THE EXACT LOCATIONS OF LIGHT FIXTURES WITH HVAC EQUIPMENT AND OTHER DEVICES/EQUIPMENT.
4.	COORDINATE WITH THE ARCHITECT, OWNER, AND ASSOCIATED TRADES FOR THE EXACT HEIGHT/LOCATION OF EXTERIOR MOUNTED LIGHTING FIXTURES PRIOR TO ROUGH-IN.
5.	LABEL SWITCH PLATES AND J-BOXES WITH CIRCUIT PER SPECS.
6.	COORDINATE LIGHT SWITCHES WITH THERMOSTATS AND OTHER WALL MOUNT DEVICES.
7.	EXTERIOR LIGHTING SHALL BE CONTROLLED BY RELAY TO INTERLOCK WITH EXISTING EXTERIOR LIGHTING CONTROLS. EC SHALL FIELD INVESTIGATE AND REPORT ANY ANOMALIES TO THE ARCHITECT AND ENGINEER PRIOR TO PROCEEDING.



**1 ELECTRICAL LIGHTING PLAN**  
SCALE: 3/32" = 1'-0"



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- KEYED NOTES**
1. PROVIDE DEDICATED 120V WATER COOLER CONNECTION. PROVIDE REMOTE BLANK FACE GFCI DEVICE OUTSIDE OF WATER COOLER HOUSING. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH THE PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
  2. PROVIDE 120V CONNECTION FOR TRAP PRIMER. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH THE PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
  3. PROVIDE 120V CONNECTION FOR TV DISPLAY. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH THE TECHNOLOGY DRAWINGS AND LOW VOLTAGE CONTRACTOR PRIOR TO ROUGH-IN.
  4. PROVIDE NEW PULL-BOXES AS REQUIRED TO RELOCATE THE EXISTING SITE LIGHTING FEED. NEW BOXES SHALL BE LOCATED AT THE NEAREST ACCESSIBLE LOCATION TO THE EXISTING FEED WITHIN THE BUILDING AND ON THE EXTERIOR OF THE NEW ADDITION. PROVIDE ALL WIRE, CONDUIT, AND ANY OTHER ITEMS REQUIRED TO RELOCATE THE EXISTING FEED. COORDINATE FINAL LOCATIONS WITH THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING. REFER TO 'ED101' FOR ADDITIONAL INFORMATION.
  5. PROVIDE REMOTE BLANK FACE DEVICE FOR REFRIGERATOR CIRCUIT. LOCATE DEVICE IN AN ACCESSIBLE LOCATION ABOVE COUNTER.

- GENERAL NOTES**
1. COORDINATE EXACT LOCATIONS OF DEVICES SHOWN WITH OTHER EQUIPMENT. COORDINATE EXACT LOCATION OF CEILING MOUNTED DEVICES WITH LIGHTS, HVAC EQUIPMENT, AND OTHER DEVICES.
  2. COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE ALL RELAYS, CONNECTIONS, AND ALL DEVICES NECESSARY TO INTERLOCK EXHAUST FANS, DAMPERS, ETC WITH PROPER CONTROL DEVICES.
  3. COORDINATE EXACT LOCATION OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR. REFER TO MECHANICAL PLANS AND MANUFACTURER FOR ADDITIONAL INFORMATION.
  4. COORDINATE EXACT LOCATION OF PLUMBING EQUIPMENT WITH PLUMBING CONTRACTOR. REFER TO PLUMBING PLANS AND MANUFACTURER FOR ADDITIONAL INFORMATION.
  5. ALL RECEPTACLES LOCATED AT COUNTERTOP HEIGHT SHALL BE ORIENTED HORIZONTALLY.
  6. FIRE STOP ALL PENETRATIONS IN FIRE AND SMOKE RATED WALLS. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS AND ADDITIONAL INFORMATION.



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- GENERAL NOTES**
- COORDINATE EXACT LOCATIONS OF DEVICES SHOWN WITH OTHER EQUIPMENT.
  - COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE ALL RELAYS, CONNECTIONS, AND ALL DEVICES NECESSARY TO INTERLOCK EXHAUST FANS, DAMPERS, ETC WITH PROPER DEVICES.
  - COORDINATE EXACT LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR.
  - FIRMLY MOUNT WEATHERPROOF 120V CONVENIENCE OUTLET ON UNISTRUT/KINDORF. COORDINATE WITH OTHER TRADES PRIOR TO ROUGH-IN. REDUNDANT RECEPTACLES WHETHER STAND-ALONE OR INTEGRAL TO A UNIT, MAY BE OMITTED SO LONG AS ALL OF THE REQUIREMENTS OF NEC 210.63 ARE SATISFIED.

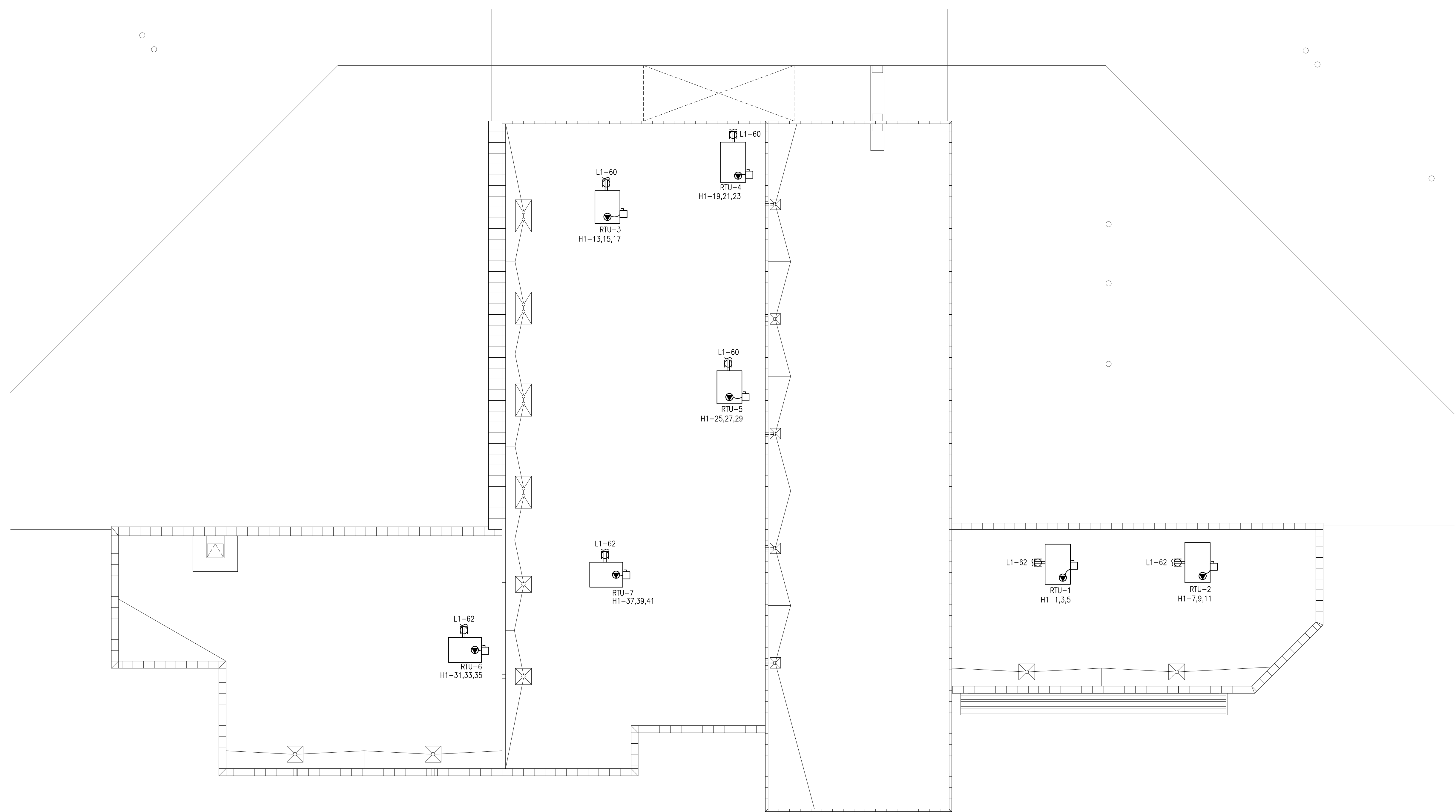
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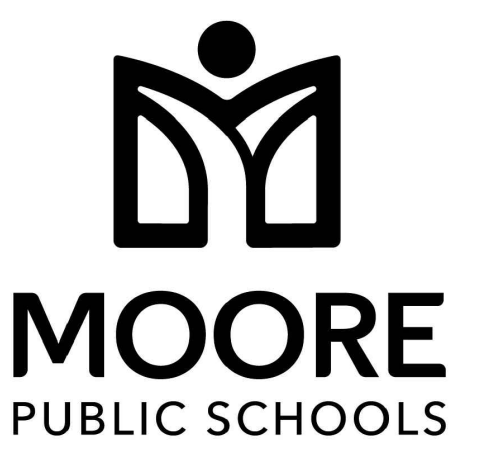


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WESTMOORE HIGH  
SCHOOL ENTRY  
UPGRADES

sheet no:  
**E202**

**1 ELECTRICAL ROOF PLAN**  
SCALE: 3/32" = 1'-0"



**Salas O'Brien**

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Moore, OK 73160  
CA# 9820 Expiration Date : 6/30/2027  
Salas O'Brien Project Number: 2550-01165-00

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WESTMOORE HIGH SCHOOL ENTRY UPGRADES

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## E401

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FEEDER SCHEDULE				
AMPS	CONDUIT SIZE 4W	CONDUIT SIZE 3W	PHASE CONDUCTORS	EQUIPMENT GROUND CONDUCTOR
20	3/4"	3/4"	#12	#12
25	3/4"	3/4"	#10	#10
30	3/4"	3/4"	#10	#10
35	1"	3/4"	#8	#10
40	1"	3/4"	#8	#10
45	1"	1"	#6	#10
50	1"	1"	#6	#10
60	1 1/4"	1 1/4"	#4	#10
70	1 1/4"	1 1/4"	#4	#8
80	1 1/4"	1 1/4"	#3	#8
90	1 1/2"	1 1/4"	#2	#8
100	1 1/2"	1 1/4"	#2	#8
110	2"	1 1/2"	#1	#6
125	2"	1 1/2"	#1	#6
150	2"	1 1/2"	#1/0	#6
175	2"	2"	#2/0	#6
200	2"	2"	#3/0	#6
225	2 1/2"	2"	#4/0	#4
250	3"	2 1/2"	250 kcmil	#4
300	3"	3"	350 kcmil	#4
350	3 1/2"	3"	500 kcmil	#3
400	(2) 2"	(2) 2"	2 SETS OF #3/0	#3
450	(2) 2 1/2"	(2) 2"	2 SETS OF #4/0	#2
500	(2) 2 1/2"	(2) 2 1/2"	2 SETS OF 250 kcmil	#2
600	(2) 3"	(2) 3"	2 SETS OF 350 kcmil	#1
700	(2) 3 1/2"	(2) 3"	2 SETS OF 500 kcmil	#1/0
800	(3) 3"	(3) 2 1/2"	3 SETS OF 300 kcmil	#1/0
900	(3) 3 1/2"	(3) 3"	3 SETS OF 400 kcmil	#2/0
1000	(3) 3 1/2"	(3) 3"	3 SETS OF 500 kcmil	#2/0
1200	(4) 3"	(4) 3"	4 SETS OF 350 kcmil	#3/0
1600	(5) 3 1/2"	(5) 3"	5 SETS OF 500 kcmil	#4/0
1800	(6) 3 1/2"	(6) 3"	6 SETS OF 400 kcmil	250 kcmil
2000	(6) 3 1/2"	(6) 3"	6 SETS OF 500 kcmil	250 kcmil
2500	(7) 3 1/2"	(7) 3"	7 SETS OF 500 kcmil	350 kcmil

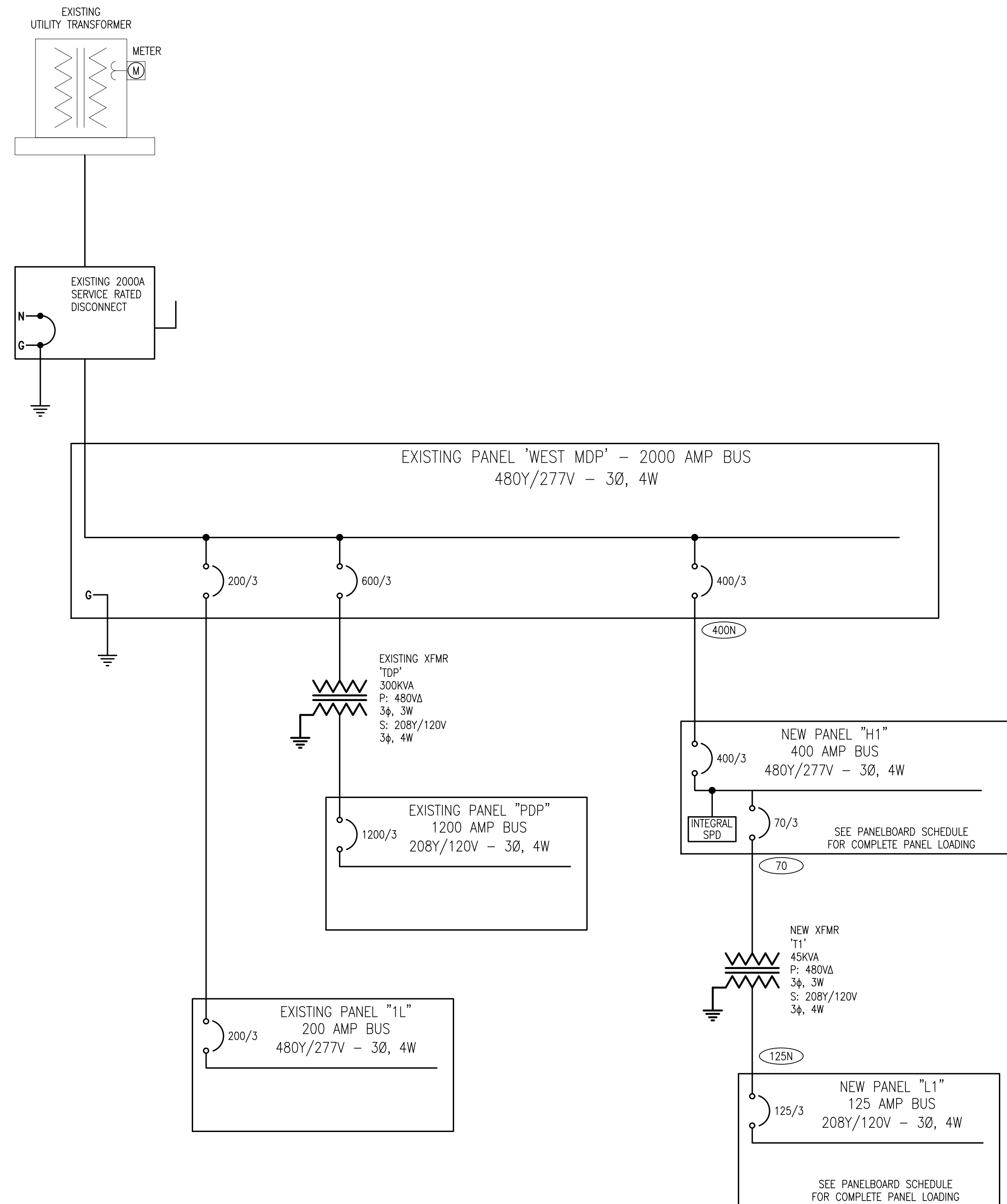
NOTES:  
1. FEEDER SIZES ARE ON THE PLAN WHERE 60 REFERS TO A 60A FEEDER WITHOUT NEUTRAL AND 60N REFERS TO A 60A FEEDER WITH NEUTRAL.  
2. SOME FEEDER SIZES DO NOT MATCH BREAKER SIZE DUE TO UP-SIZING OF THE FEEDER FOR VOLTAGE DROP.  
3. CONDUITS ARE SIZED PER NEC TABLES FOR THHN/THWN AND MAY BE UPSIZED FOR EASE OF PULLING OR DOWNSIZED AS ALLOWED PER NEC FOR CONDUIT TYPE(S) BEING INSTALLED.  
4. ALL CONDUCTORS 100A AND LESS ARE SIZED PER 60 DEGREE LUGS, EC MAY SIZE CONDUCTORS FOR ACTUAL RATING OF LUGS PER NEC.

**GENERAL NOTES**

- AIC RATINGS ARE ESTIMATED BASED ON AVAILABLE DATA DURING DESIGN. CONTRACTOR TO VERIFY AVAILABLE FAULT CURRENT WITH UTILITY.
- EXISTING PANELS AND ALL ASSOCIATED CIRCUITING BELIEVED TO BE MISSING GROUNDING ELECTRODE CONDUCTOR AND/OR EQUIPMENT GROUNDING CONDUCTOR. CONTRACTOR TO INVESTIGATE EXISTING CONDITIONS AND PROVIDE NEW GROUNDING WIRES AS REQUIRED.

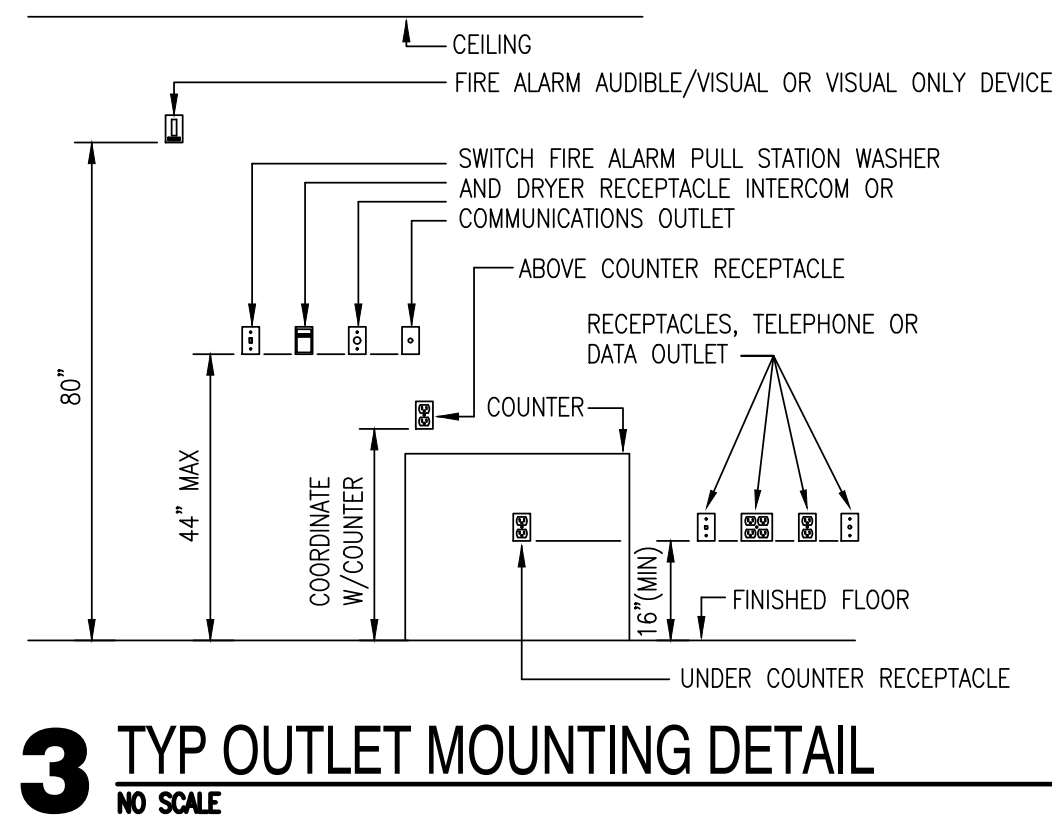
**EXISTING LOAD ANALYSIS**

EXISTING PANEL 'WEST MDP' LOAD ANALYSIS:  
PEAK LOAD ASK REPORTED BY UTILITY: 196A/PHASE (163kVA)  
(196A)\*1.25 (PER NEC 220.87) = 245A/PHASE (203.7kVA)  
+DESIGN LOAD ~179A/PHASE (148.8kVA)  
.= ~424A (352.5kVA) MAX ON THE PANEL 'WEST MDP' 2000A BUS

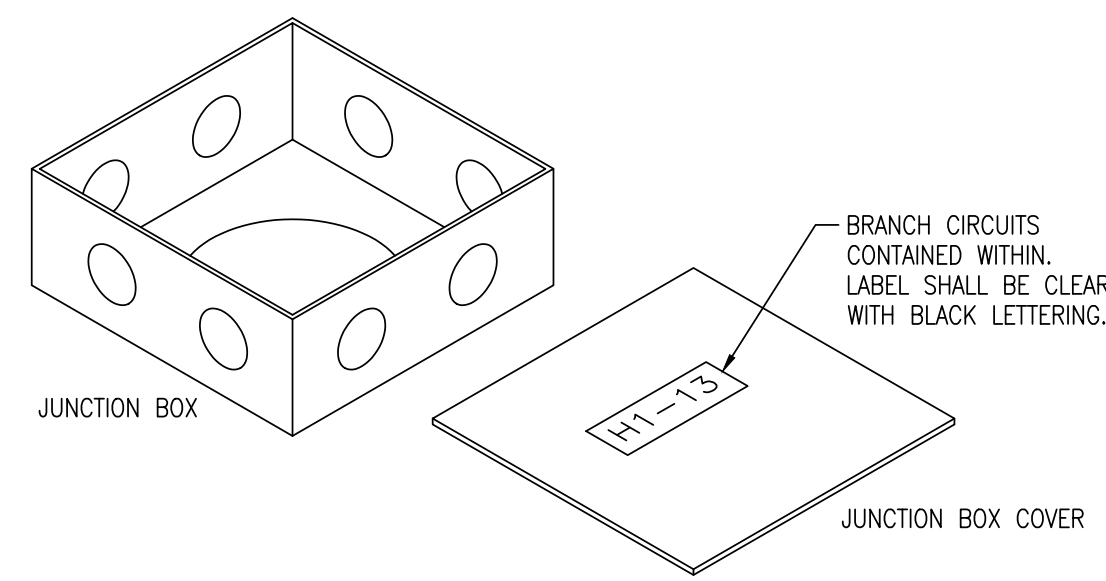


### 1 ONE-LINE DIAGRAM

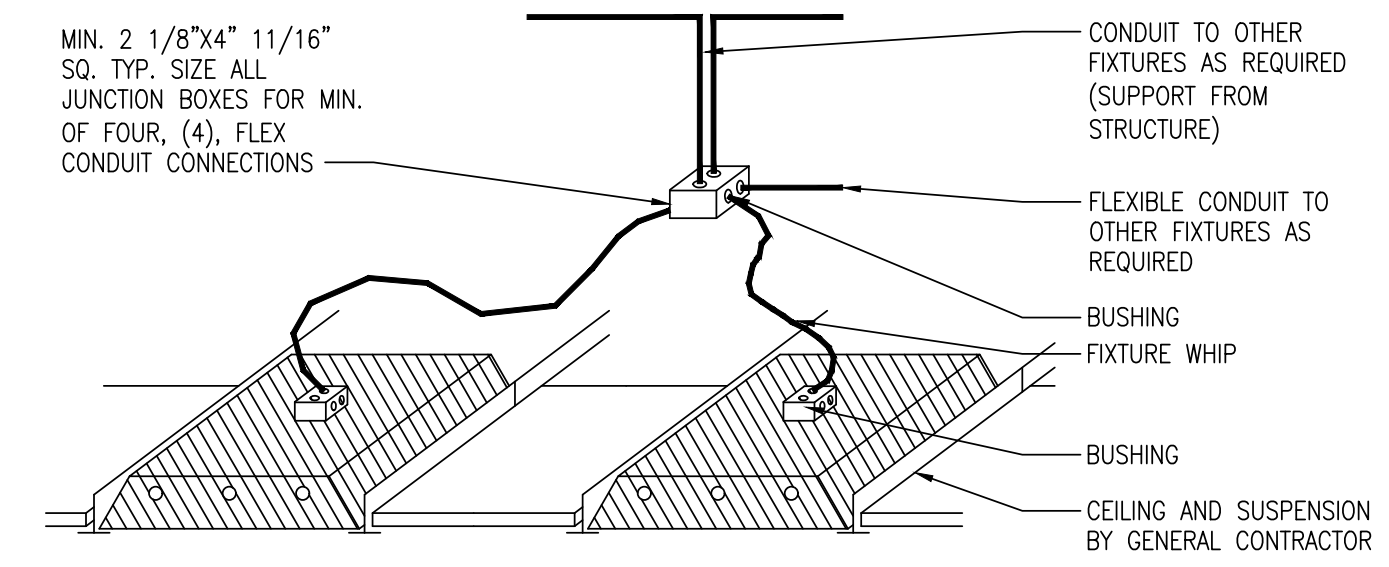
NO SCALE



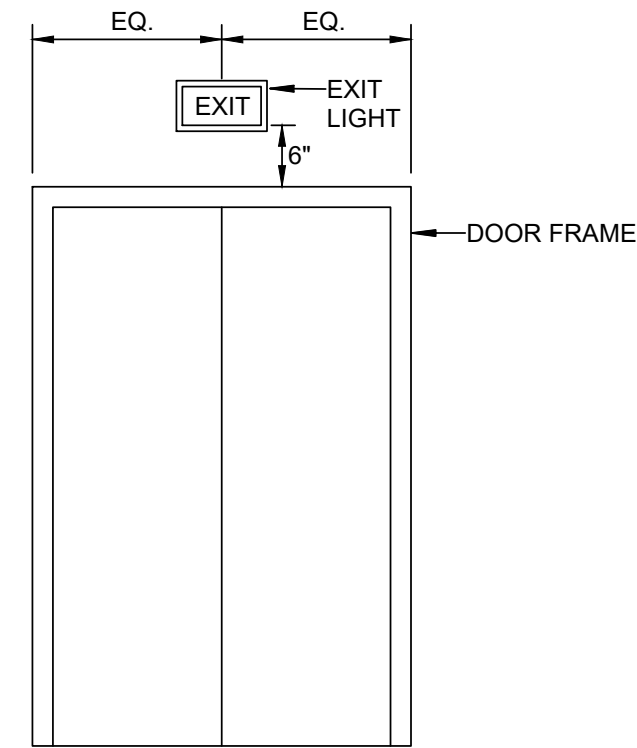
**3** TYP. OUTLET MOUNTING DETAIL  
NO SCALE



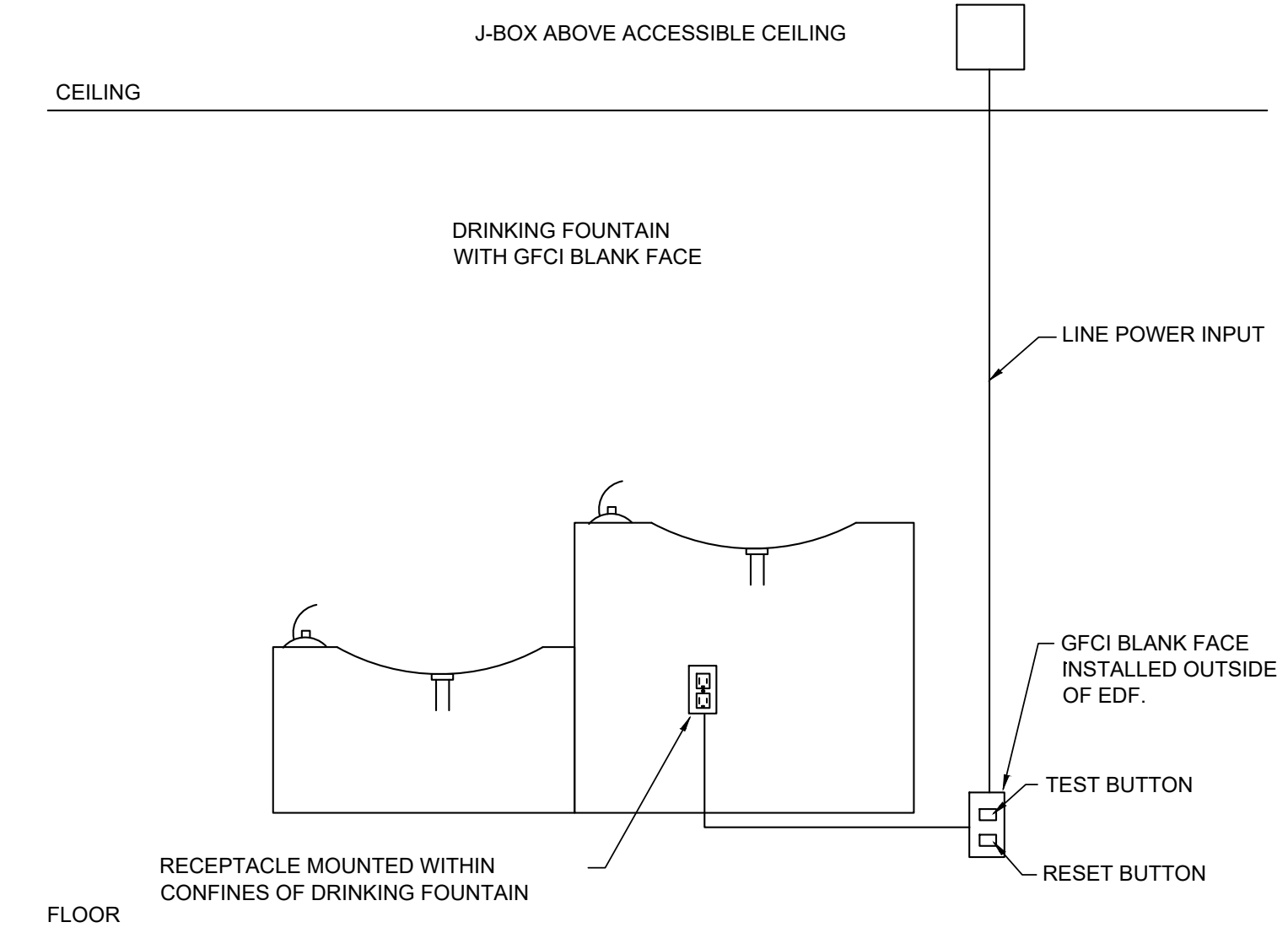
**2** JUNCTION BOX LABELING DETAIL  
NO SCALE



**1** TYP. TROFFER POWER DETAIL  
NO SCALE



**5** TYP. EXIT SIGN LOCATION DETAIL  
NO SCALE



**4** TYP. ELECTRICAL DRINKING FOUNTAIN DETAIL  
NO SCALE



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WESTMOORE HIGH  
SCHOOL ENTRY  
UPGRADES

sheet no:

**E501**

MECHANICAL EQUIPMENT SCHEDULE											
CALLOUT	DESCRIPTION	VOLTS	HP	KVA	MCA	MOCP	CIRCUIT	WIRE CALLOUT	DISCONNECT	DISC PROV BY	DISC INST BY
CP-1	CIRCULATION PUMP	120V 1P 2W	1/6 HP	0.53			L1-42	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	EC	EC
EF-1	EXHAUST FAN	120V 1P 2W		0.22			L1-50	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	EC	EC
EF-2	EXHAUST FAN	120V 1P 2W		0.22			L1-52	3/4"C,1#12,#12N,#12G	TOGGLE SWITCH	EC	EC
EF-3	EXHAUST FAN	120V 1P 2W		0.22			L1-54	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	EC	EC
EF-4	EXHAUST FAN	120V 1P 2W		0.17			L1-56	3/4"C,1#10,#10N,#10G	TOGGLE SWITCH	EC	EC
EFH-1	ELECTRIC FAN FORCED HEATER	208V 2P 2W		3			L1-44,46	3/4"C,2#12,#12G	NON-FUSED	MFR	EC
EW-1	ELECTRIC WATER HEATER	208V 2P 2W		4.5			L1-38,40	3/4"C,2#10,#10G	NON-FUSED	EC	EC
RTU-1	ROOF TOP UNIT	480V 3P 3W		30.76	37	40	H1-1,3,5	3/4"C,3#8,#10G	NON-FUSED	MFR	MFR
RTU-2	ROOF TOP UNIT	480V 3P 3W		30.76	37	40	H1-7,9,11	3/4"C,3#8,#10G	NON-FUSED	MFR	MFR
RTU-3	ROOF TOP UNIT	480V 3P 3W		11.64	14	15	H1-13,15,17	3/4"C,3#10,#10G	NON-FUSED	MFR	MFR
RTU-4	ROOF TOP UNIT	480V 3P 3W		18.29	22	25	H1-19,21,23	3/4"C,3#10,#10G	NON-FUSED	MFR	MFR
RTU-5	ROOF TOP UNIT	480V 3P 3W		11.64	14	15	H1-25,27,29	3/4"C,3#10,#10G	NON-FUSED	MFR	MFR
RTU-6	ROOF TOP UNIT	480V 3P 3W		11.64	14	15	H1-31,33,35	3/4"C,3#10,#10G	NON-FUSED	MFR	MFR
RTU-7	ROOF TOP UNIT	480V 3P 3W		11.64	14	15	H1-37,39,41	3/4"C,3#10,#10G	NON-FUSED	MFR	MFR

MECHANICAL EQUIPMENT SCHEDULE											
Panel	ROOM	MOUNTING	SURFACE	VOLTS	208Y/277V 3P 4W	AIC	22,000	DISCONNECT	DISC PROV BY	DISC INST BY	
CALLOUT	DESCRIPTION	VOLTS	HP	KVA	MCA	MOCP	CIRCUIT	WIRE CALLOUT	DISCONNECT	DISC PROV BY	DISC INST BY
1	40/3	30.8					RTU-1				
3											
5											
7	40/3	30.8					RTU-2				
9											
11											
13	15/3	11.6					RTU-3				
15											
17											
19	25/3	18.3					RTU-4				
21											
23											
25	15/3	11.6					RTU-5				
27											
29											
31	15/3	11.6					RTU-6				
33											
35											
37	15/3	11.6					RTU-7				
39											
41											

CONN KVA		CALC KVA		CONN KVA		CALC KVA	
LIGHTING	9.97	12.5	(125%)	MOTORS	128	128	(100%)
LARGEST MOTOR	30.8	7.69	(25%)	RECEPTACLES	26.8	18.4	(50%>10)
				HEATING	7.5	7.5	(100%)
				TOTAL LOAD		174	
				BALANCED 3-PHASE LOAD		209 A	
				PHASE A		100%	
				PHASE B		100%	
				PHASE C		99.8%	

Panel	ROOM	MOUNTING	SURFACE	VOLTS	208Y/120V 3P 4W	AIC	10,000	DISCONNECT	DISC PROV BY	DISC INST BY	
CALLOUT	DESCRIPTION	VOLTS	HP	KVA	MCA	MOCP	CIRCUIT	WIRE CALLOUT	DISCONNECT	DISC PROV BY	DISC INST BY
1	20/1	0.41					RECEPTACLE, RM 26 RECEPTACLE, TRAP PRIMER				
3	20/1	0.36					RM 25 RECEPTACLE, TV				
5	20/1	0.18					RM 25 RECEPTACLE				
7	20/1	0.18					RM 25 RECEPTACLE				
9	20/1	0.18					RM 25 RECEPTACLE				
11	20/1	0.8					REFRIGERATOR				
13	20/1	0.41					RECEPTACLE, TRAP PRIMER				
15	20/1	0.18					WATER COOLER				
17	20/1	0.77					RECEPTACLE, RM 27 RECEPTACLE, RM 28 RECEPTACLE, RM 29 RECEPTACLE, TRAP PRIMER				
19	20/1	0.54					CORRIDOR 22 RECEPTACLE				
21	20/1	0.9					RM 30 RECEPTACLE, TV				
23	20/1	0.72					RM 31 RECEPTACLE				
25	20/1	0.72					RM 32 RECEPTACLE				
27	20/1	0.18					NAC				
29	20/1	0.18					IT RACK				
31	20/1	0.18					ACP				
33	20/1	0.18					IDP				
35	20/1	0.9					RM 34 RECEPTACLE, TV				
37	20/1	0.72					RECEPTACLE, RM 20 RECEPTACLE				
39	20/1	0.54					RM 20 RECEPTACLE				
41	20/1	1.2					COPY MACHINE				
43	20/1	0.36					RM 17 RECEPTACLE				
45	20/1	0.9					RM 16 RECEPTACLE, TV				
47	20/1	0.36					RM 25 RECEPTACLE				
49	20/1	0					SPACE				
51	20/1	0					SPACE				
53	20/1	0					SPACE				
55	20/1	0					SPACE				
57	20/1	0					SPACE				
59	20/1	0					SPACE				
61	20/1	0					SPACE				
63	20/1	0					SPACE				
65	20/1	0					SPACE				
67	20/1	0					SPACE				
69	20/1	0					SPACE				
71	20/1	0					SPACE				
73	20/1	0					SPACE				
75	20/1	0					SPACE				
77	20/1	0					SPACE				
79	20/1	0					SPACE				
81	20/1	0					SPACE				
83	20/1	0					SPACE				

CONN KVA		CALC KVA		CONN KVA		CALC KVA	
LARGEST MOTOR	0.528	0.132	(25%)	RECEPTACLES	26.8	18.4	(50%>10)
MOTORS	1.34	1.34	(100%)	HEATING	7.5	7.5	(100%)
				TOTAL LOAD		27.4	
				BALANCED 3-PHASE LOAD		76 A	
				PHASE A		107%	
				PHASE B		104%	
				PHASE C		89.2%	

