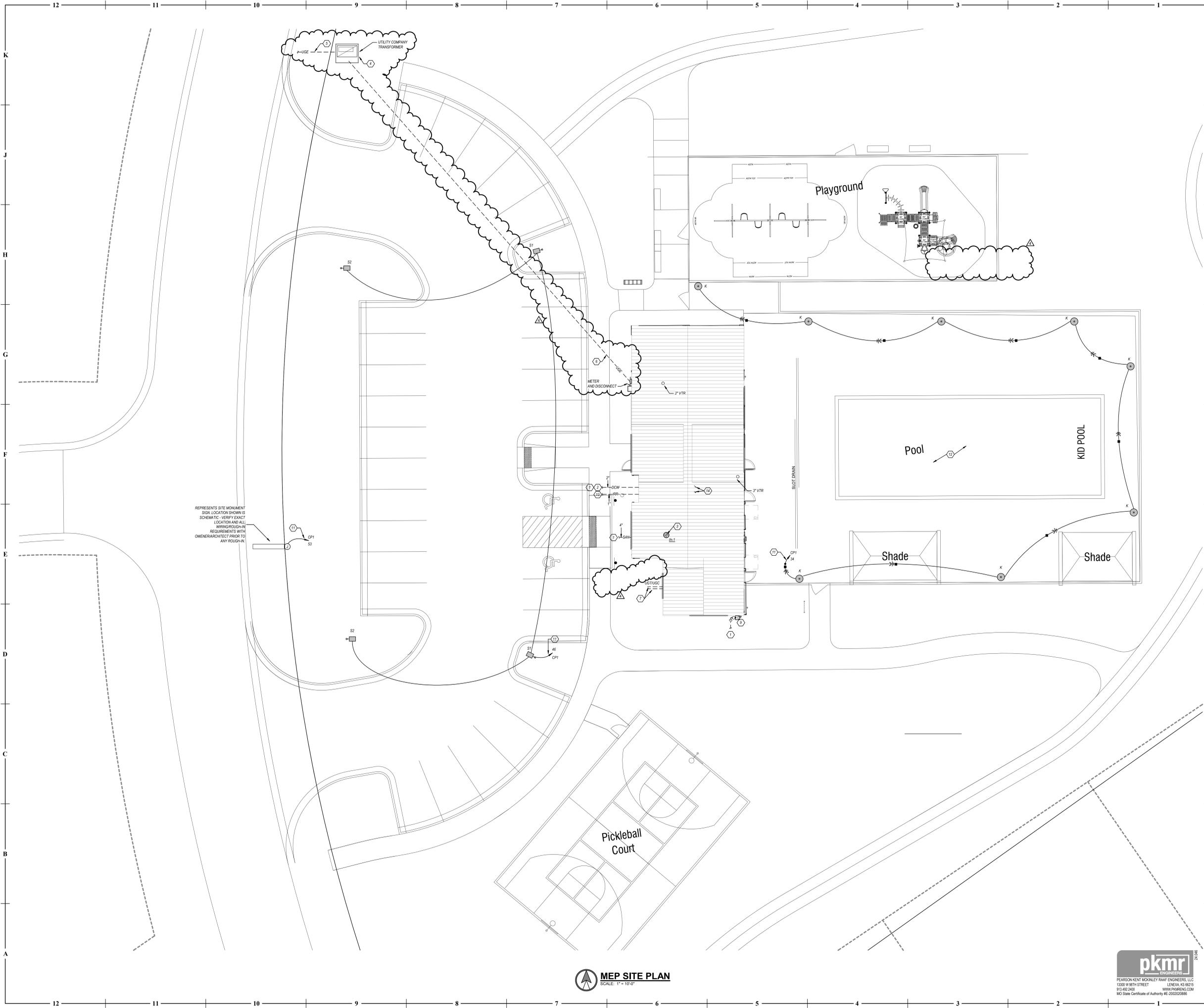


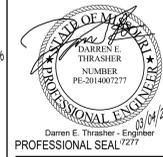
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- GENERAL SITE NOTES**
- REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
 - REFER TO CIVIL PLANS FOR CONTINUATION OF SERVICES BEYOND 5'-0" FROM BUILDING UNLESS OTHERWISE SHOWN.
 - REFER TO RESPECTIVE FLOOR PLANS FOR CONTINUATION OF SERVICES INSIDE BUILDING AND/OR EXACT LOCATIONS OF EQUIPMENT.
 - CONTACT UTILITY LOCATING SERVICE TO LOCATE EXACT LOCATION OF ALL EXISTING UTILITIES BELOW GRADE.
- KEYED NOTES - SITE**
- REFER TO CIVIL FOR CONTINUATION.
 - WATER SERVICE: REFER TO CIVIL PLANS FOR METER LOCATION ON SITE.
 - INTAKE HOOD ON SLOPED ROOF: PROVIDE MINIMUM 10" CLEARANCE FROM ALL EXHAUST AND FLUE TERMINATIONS ON ROOF.
 - PROPOSED LOCATION FOR UTILITY COMPANY PAD MOUNTED TRANSFORMER COORDINATE EXACT LOCATION AND REQUIREMENTS WITH ELECTRICAL UTILITY COMPANY. PRIOR TO ANY ROUGH-IN, CONTRACTOR TO PROVIDE CONCRETE PAD PER UTILITY COMPANY REQUIREMENTS.
 - PRIMARY UNDERGROUND FEEDERS: REFER TO ELECTRICAL RISER DIAGRAM FOR MORE INFORMATION. COORDINATE ALL SITE WORK WITH CIVIL ENGINEER. ROUTE CONDUITS TO PROPERTY LINE PER UTILITY COMPANY REQUIREMENTS.
 - SECONDARY UNDERGROUND FEEDERS: REFER TO ELECTRICAL RISER DIAGRAM FOR MORE INFORMATION. COORDINATE ALL SITE WORK WITH CIVIL ENGINEER.
 - TWO (2) CONDUITS FOR TELECOMMUNICATION AND TELEVISION SERVICE. REFER TO E01 FOR CONTINUATION BELOW GRADE TO IT EQUIPMENT ROOM.
 - GAS METER, BY UTILITY. GAS SERVICE SHOULD BE RATED FOR +100 MBH AT 7-11 "WC.
 - NOT USED.
 - WIRE THROUGH LIGHTING CONTROL PANEL LCP-1.
 - ALL WORK SHOWN AT THE POOL AND POOL EQUIPMENT ROOM DONE BY POOL CONSULTANT.
 - 1" IRRIGATION LINE. COORDINATE WITH IRRIGATION PLAN FOR CONTINUATION.
 - CONCENTRIC VENTS TO FURNACES. MAINTAIN 10" MIN. DISTANCE AWAY FROM ANY FRESH AIR INTAKES.

REPRESENTS SITE MONUMENT
SIGN LOCATION SHOWN IS
SCHEMATIC - VERIFY EXACT
LOCATION AND ALL
IRRRIGATION
REQUIREMENTS WITH
OWNER/ARCHITECT PRIOR TO
ANY ROUGH-IN.

MEP SITE PLAN
SCALE: 1" = 10'-0"



Darren E. Thrasher - Engineer
PROFESSIONAL SEAL 1277

MEP101
ISSUE DATE: 06/26/2024
COLLINS WEBB #: 23115
SITE PLAN

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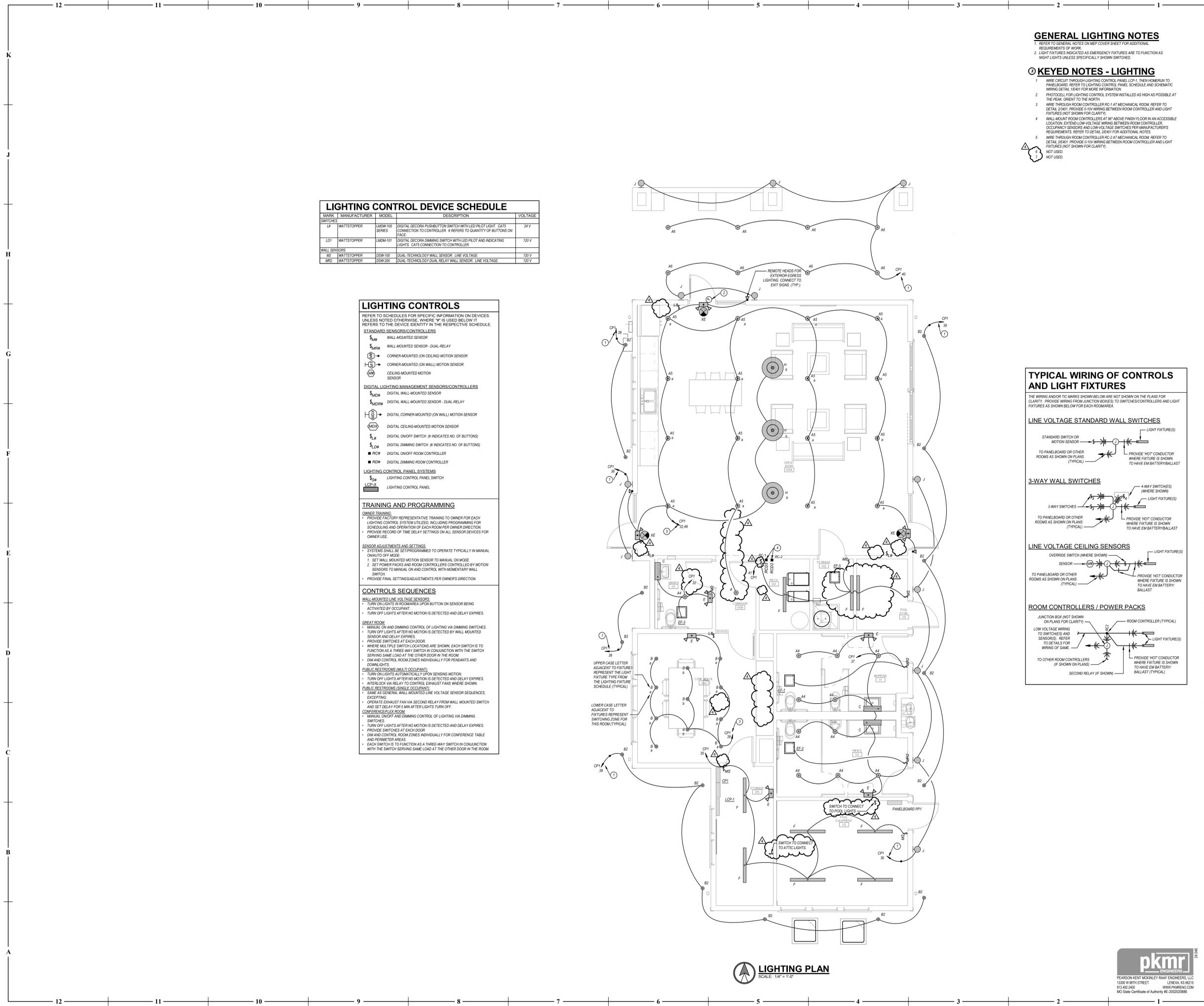
1	Revision 1	11/8/2024
4	Owner Changes	3/4/2026

BAILEY FARMS CLUBHOUSE
LEE'S SUMMIT, MO



CONSTRUCTION DRAWINGS

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LIGHTING CONTROL DEVICE SCHEDULE				
MARK	MANUFACTURER	MODEL	DESCRIPTION	VOLTAGE
SWITCHES				
1P	WATSTOPPER	LMSW-100 SERIES	DIGITAL DECORA PUSH/BUTTON SWITCH WITH LED PILOT LIGHT. CATS CONNECTION TO CONTROLLER. # REFERS TO QUANTITY OF BUTTONS ON FACE.	24 V
LD1	WATSTOPPER	LDM-101	DIGITAL DECORA DIMMING SWITCH WITH LED PILOT AND INDICATING LIGHTS. CATS CONNECTION TO CONTROLLER.	120 V
WALL SENSORS				
M2	WATSTOPPER	DSW-100	DUAL TECHNOLOGY WALL SENSOR. LINE VOLTAGE.	120 V
MR2	WATSTOPPER	DSW-200	DUAL TECHNOLOGY DUAL RELAY WALL SENSOR. LINE VOLTAGE.	120 V

LIGHTING CONTROLS

REFER TO SCHEDULES FOR SPECIFIC INFORMATION ON DEVICES. UNLESS NOTED OTHERWISE, WHERE "N" IS USED BELOW IT REFERS TO THE DEVICE IDENTITY IN THE RESPECTIVE SCHEDULE.

STANDARD SENSORS/CONTROLLERS

- WALL MOUNTED SENSOR**
 - WALL MOUNTED SENSOR - DUAL RELAY
 - CORNER MOUNTED (ON CEILING) MOTION SENSOR
 - CORNER MOUNTED (ON WALL) MOTION SENSOR
 - CEILING MOUNTED MOTION SENSOR
- DIGITAL LIGHTING MANAGEMENT SENSORS/CONTROLLERS**
 - DIGITAL WALL MOUNTED SENSOR
 - DIGITAL WALL MOUNTED SENSOR - DUAL RELAY
 - DIGITAL CORNER MOUNTED (ON WALL) MOTION SENSOR
 - DIGITAL CEILING MOUNTED MOTION SENSOR
 - DIGITAL ON/OFF SWITCH (# INDICATES NO. OF BUTTONS)
 - DIGITAL DIMMING SWITCH (# INDICATES NO. OF BUTTONS)
 - DIGITAL ON/OFF ROOM CONTROLLER
 - DIGITAL DIMMING ROOM CONTROLLER

LIGHTING CONTROL PANEL SYSTEMS

- LIGHTING CONTROL PANEL SWITCH
- LIGHTING CONTROL PANEL

TRAINING AND PROGRAMMING

- OWNER TRAINING:**
 - PROVIDE FACTORY REPRESENTATIVE TRAINING TO OWNER FOR EACH LIGHTING CONTROL SYSTEM UTILIZED, INCLUDING PROGRAMMING FOR SCHEDULING AND OPERATION OF EACH ROOM PER OWNER DIRECTION.
 - PROVIDE RECORD OF TIME DELAY SETTINGS ON ALL SENSOR DEVICES FOR OWNER USE.

- SENSOR ADJUSTMENTS AND SETTINGS:**
 - SYSTEMS SHALL BE SET/PROGRAMMED TO OPERATE TYPICALLY IN MANUAL ON/AUTO OFF MODE.
 - SET WALL MOUNTED MOTION SENSOR TO MANUAL ON MODE.
 - SET POWER PACKS AND ROOM CONTROLLERS CONTROLLED BY MOTION SENSORS TO MANUAL ON AND CONTROL WITH MOMENTARY WALL SWITCH.
 - PROVIDE FINAL SETTINGS/ADJUSTMENTS PER OWNER'S DIRECTION.

CONTROLS SEQUENCES

- WALL MOUNTED LINE VOLTAGE SENSORS:**
 - TURN ON LIGHTS VIA PROGRAMMA UPON BUTTON ON SENSOR BEING ACTIVATED BY OCCUPANT.
 - TURN OFF LIGHTS AFTER NO MOTION IS DETECTED AND DELAY EXPIRES.
- GREAT ROOM:**
 - MANUAL ON AND DIMMING CONTROL OF LIGHTING VIA DIMMING SWITCHES.
 - TURN OFF LIGHTS AFTER NO MOTION IS DETECTED BY WALL MOUNTED SENSOR AND DELAY EXPIRES.
 - PROVIDE SWITCHES AT EACH DOOR.
 - WHERE MULTIPLE SWITCH LOCATIONS ARE SHOWN, EACH SWITCH IS TO FUNCTION AS A THREE-WAY SWITCH IN CONJUNCTION WITH THE SWITCH SERVING SAME LOAD AT THE OTHER DOOR IN THE ROOM.
 - DIM AND CONTROL ROOM ZONES INDIVIDUALLY FOR PENDANTS AND DOWNLIGHTS.
- PUBLIC RESTROOMS (MULTI OCCUPANT):**
 - TURN ON LIGHTS AUTOMATICALLY UPON SENSING MOTION.
 - TURN OFF LIGHTS AFTER NO MOTION IS DETECTED AND DELAY EXPIRES.
 - INTERLOCK VIA RELAY TO CONTROL EXHAUST FANS WHERE SHOWN.
 - OPERATE EXHAUST FAN VIA SECOND RELAY FROM WALL MOUNTED SWITCH AND SET DELAY FOR 1 MIN AFTER LIGHTS TURN OFF.
- CONFERENCE EX ROOM:**
 - MANUAL ON/OFF AND DIMMING CONTROL OF LIGHTING VIA DIMMING SWITCHES.
 - TURN OFF LIGHTS AFTER NO MOTION IS DETECTED AND DELAY EXPIRES.
 - PROVIDE SWITCHES AT EACH DOOR.
 - DIM AND CONTROL ROOM ZONES INDIVIDUALLY FOR CONFERENCE TABLE AND PERIMETER AREAS.
 - EACH SWITCH IS TO FUNCTION AS A THREE-WAY SWITCH IN CONJUNCTION WITH THE SWITCH SERVING SAME LOAD AT THE OTHER DOOR IN THE ROOM.

GENERAL LIGHTING NOTES

- REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
- LIGHT FIXTURES INDICATED AS EMERGENCY FIXTURES ARE TO FUNCTION AS NIGHT LIGHTS UNLESS SPECIFICALLY SHOWN SWITCHED.

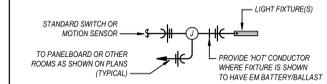
KEYED NOTES - LIGHTING

- WIRE CIRCUIT THROUGH LIGHTING CONTROL PANEL LCP-1. THEN REFER TO PANELBOARD. REFER TO LIGHTING CONTROL PANEL SCHEDULE AND SCHEMATIC WIRING DETAIL (E40) FOR MORE INFORMATION.
- PHOTOCELL FOR LIGHTING CONTROL SYSTEM INSTALLED AS HIGH AS POSSIBLE AT THE PEAK. ORIENT TO THE NORTH.
- WIRE THROUGH ROOM CONTROLLER RC-1 AT MECHANICAL ROOM. REFER TO DETAIL 25401. PROVIDE 3/16" WIRING BETWEEN ROOM CONTROLLER AND LIGHT FIXTURES (NOT SHOWN FOR CLARITY).
- WALL ADJUST ROOM CONTROLLERS AT 30" ABOVE FINISH FLOOR IN AN ACCESSIBLE LOCATION. EXTEND LOW VOLTAGE WIRING BETWEEN ROOM CONTROLLER, OCCUPANCY SENSORS AND LOW VOLTAGE SWITCHES PER MANUFACTURER'S REQUIREMENTS. REFER TO DETAIL 25401 FOR ADDITIONAL NOTES.
- WIRE THROUGH ROOM CONTROLLER RC-2 AT MECHANICAL ROOM. REFER TO DETAIL 25401. PROVIDE 3/16" WIRING BETWEEN ROOM CONTROLLER AND LIGHT FIXTURES (NOT SHOWN FOR CLARITY).
- NOT USED.
- NOT USED.

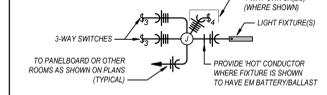
TYPICAL WIRING OF CONTROLS AND LIGHT FIXTURES

THE WIRING AND/OR TIC MARKS SHOWN BELOW ARE NOT SHOWN ON THE PLANS FOR CLARITY. PROVIDE WIRING FROM JUNCTION BOXES TO SWITCHES/CONTROLLERS AND LIGHT FIXTURES AS SHOWN BELOW FOR EACH ROOMAREA.

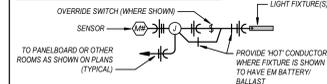
LINE VOLTAGE STANDARD WALL SWITCHES



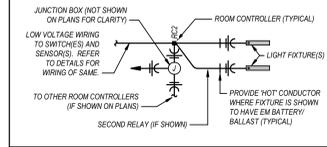
3-WAY WALL SWITCHES



LINE VOLTAGE CEILING SENSORS



ROOM CONTROLLERS / POWER PACKS



CONSTRUCTION DRAWINGS

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E101
LIGHTING PLAN



ELECTRICAL FLOOR DEVICE SCHEDULE

MARK	MANUFACTURER	MODEL	DESCRIPTION	CORE HOLE SIZE	FIRE RATING	CONDUIT - POWER NO.	CONDUIT - LV SIZE	DEVICES QUANTITIES	RECEP. TELECOM	MODEL #	SUB-PLATE DESCRIPTION	MODEL #	COVER DESCRIPTION	REMARKS
FR-2			4 GANG RECESSED FLOOR BOX			2	3/4"	2	1/2"	4			CAST ALUMINUM RECESSED COVER ASSEMBLY, BLACK FINISH	1,2,3,4

REMARKS:
 1. COORDINATE FINISH COLORS WITH ARCHITECT OWNER PRIOR TO ORDERING.
 2. CONTRACTOR TO FURNISH/INSTALL DEVICES AS SHOWN.
 3. LOW VOLTAGE DEVICES BY OTHERS/OTHERS.
 4. WINGED DOORS OPEN 180°. SCREWS ALLOW EACH DOOR TO BE SECURED SHUT.

DISCONNECT SWITCH SCHEDULE

MARK	SWITCH RATING	POLES	TYPE	DESCRIPTION	ENCLOSURE TYPE	LOCATION	EQUIPMENT SERVED	NOTES
DS-1	30	2	NON-FUSIBLE	HEAVY-DUTY DISCONNECT SWITCH	NEMA 3R		CU-1	1,2
DS-2	30	2	NON-FUSIBLE	HEAVY-DUTY DISCONNECT SWITCH	NEMA 3R		CU-2	1,2
DS-3	30	2	NON-FUSIBLE	HEAVY-DUTY DISCONNECT SWITCH	NEMA 7	STORAGE 103	WH	7
DS-5	400	2	NON-FUSIBLE	HEAVY-DUTY DISCONNECT SWITCH	NEMA 3R			

1. (5) MOUNT IN APPROXIMATE CENTER OF DISCONNECT ASSEMBLY AND/OR EQUIPMENT.
 2. MOUNT AT 20" TO BOTTOM OF DISCONNECT ASSEMBLY AND/OR EQUIPMENT.



KEYED NOTES

- 1 ONE (1) 1" EC FROM SECURITY JUNCTION BOX TO ACCESS CONTROL PANEL.
- 2 ONE (1) 3/4" EC FROM DOOR POSITION SWITCH MOUNT LOCATION TO ACCESSIBLE AFC.
- 3 ONCE (1) 3/4" EC FROM ACCESSIBLE AFC STUBBED BEHIND DOOR FRAME TO ELECTRIFIED POWER TRANSFER DEVICE.
- 4 DOUBLE GANG BOX WITH SINGLE GANG DEVICE RING MOUNTED 42" A.F.F. WITH ONE (1) 3/4" TO ACCESSIBLE AFC.
- 5 ONE (1) 3/8" CORE DRILL THROUGH DOOR TO LOCKSET.

GENERAL NOTES

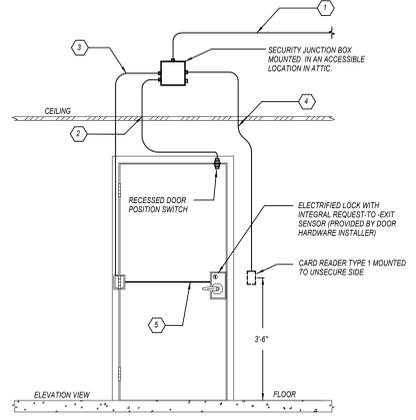
- 1. PROVIDE MANUFACTURERS REQUIRED CABLING FOR INTERCONNECTION OF ALL ACCESS CONTROL SYSTEM COMPONENTS PER SPECIFICATIONS.
- 2. ALL CARD READERS SHALL BE RVIS COMPLIANT.
- 3. THESE DIAGRAMS INDICATE ELECTRONIC ACCESS CONTROL SYSTEM COMPONENTS ONLY. REFER TO SPECIFICATIONS FOR OTHER HARDWARE AND CONSTRUCTION REQUIREMENTS.
- 4. ACCESS CONTROL TYPE OR ONLY INDICATES THE SCHEMATIC CONFIGURATION OF ACCESS CONTROL ELECTRONICS AND MOUNTING HARDWARE. REFER TO SECTIONAL OVERHEAD DOOR SPECIFICATION FOR OTHER DOOR / GATE HARDWARE REQUIREMENTS.
- 5. PROVIDE CABLING AND CONNECTIONS TO GATE CONTROLLERS FOR VEHICLE GATES.

ABBREVIATIONS

- DP = RECESSED DOOR CONTACT (DOOR POSITION SWITCH)
- ES = ELECTRIC STRIKE
- CARD = PROXIMITY CARD READER
- REQ = REQUEST TO EXIT

2 ACCESS CONTROL DETAIL

NOT TO SCALE

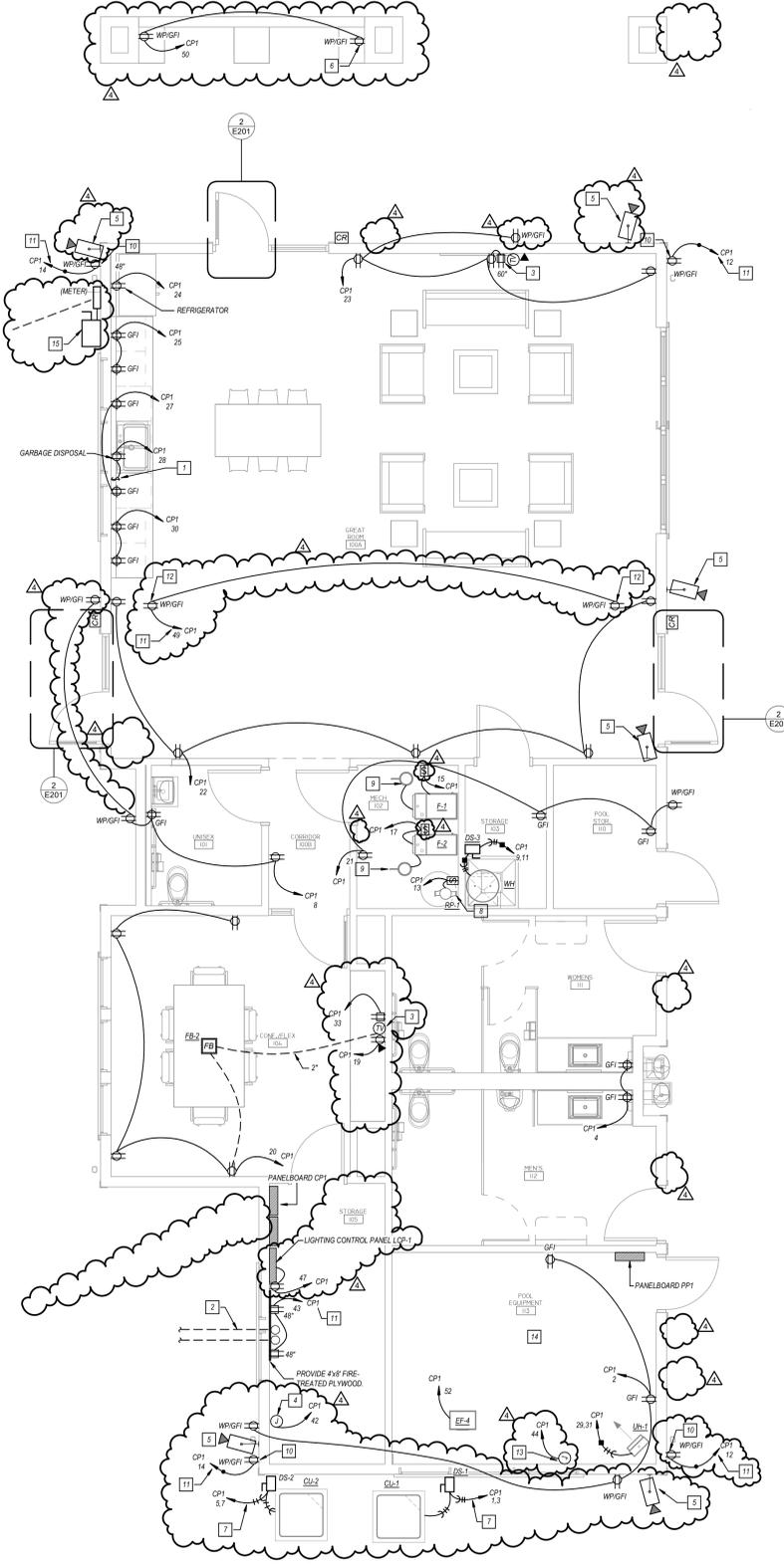


GENERAL POWER NOTES

- 1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
- 2. COORDINATE EXACT NEMA CONFIGURATIONS OF RECEPTACLES SERVING EQUIPMENT WITH EXACT EQUIPMENT BEING FURNISHED.
- 3. EXACT MECHANICAL EQUIPMENT LOCATIONS MAY NOT BE SHOWN FOR CLARITY. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT, DUCT DETECTORS, ETC. WITH MECHANICAL DRAWINGS AND CONTRACTOR.
- 4. COORDINATE EXACT LOCATIONS OF SMOKE DETECTORS WITH CEILING FANS, HVAC DIFFUSERS, SPRINKLER HEADS, ETC. PER NFPA REQUIREMENTS.

KEYED NOTES - POWER

- 1 SWITCH ABOVE COUNTER FOR GARBAGE DISPOSAL. GANG WITH RECEPTACLE ADJACENT.
- 2 TWO (2) 3" CONDUITS FOR TELECOMMUNICATION AND TELEVISION SERVICES. STUB UP TO 12" ABOVE FINISH FLOOR WITH BUSGED ENDS. COORDINATE WITH SERVICE PROVIDER.
- 3 RECEPTACLE TELEVISION AND DATA OUTLETS INSTALLED BEHIND WALL MOUNTED TELEVISION. REFER TO ARCHITECTURAL ELEVATIONS. VERIFY EXACT MOUNTING HEIGHT AND LOCATION WITH OWNER/ARCHITECT. AND ADJUST EXACT LOCATIONS BASED ON ACTUALLY PROVIDED TELEVISION AND MOUNTING BRACKET FOR THE TELEVISION OUTLET. PROVIDE HBL200 4"x3.25" BACK BOX WITH 2" CONDUIT KNOCKOUT AT THE CONVERSATION ROOM. EXTEND 2" CONDUIT FROM BOX DOWN TO BELOW GRADE AND EXTEND TO FLOOR BOX.
- 4 ROUGH-IN AND CONNECT TO SECURITY PANEL PROVIDED BY OTHERS. COORDINATE EXACT REQUIREMENTS AND LOCATION WITH SECURITY PANEL PROVIDER.
- 5 ROUGH-IN FOR SECURITY CAMERA BY OTHERS. COORDINATE EXACT LOCATION AND NUMBER OF CAMERAS REQUIRED WITH SECURITY CAMERA PROVIDER AND OWNER. EXTEND (1) 3/4" CONDUIT ABOVE/UP ACCESSIBLE CEILING BACK TO MAIN SECURITY PANEL.
- 6 RECEPTACLES FOR GRILLE LOCATION. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ANY ROUGH-IN.
- 7 (2) 1/2" WIRE AND (1) #10 GROUND WITH 3/4" SCHEDULE.
- 8 WIRE RAMP THROUGH AQUASTAT FOR CONTROL. COORDINATE ALL REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
- 9 MOTORIZED DAMPER ON OUTSIDE AIR DUCT. EXTEND WIRING TO FURNACE AND PROVIDE RELAY FOR OPEN/CLOSE CONTROL PER THE OUTSIDE AIR DAMPER WIRING SCHEMATIC ON SHEET 4007. DAMPER SHALL OPEN WHEN FURNACE IS ON AND CLOSE WHEN OFF. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR.
- 10 RECEPTACLE INSTALLED AS HIGH AS POSSIBLE BELOW THE ROOF EAVE. COORDINATE WITH OWNER/ARCHITECT AS MUCH AS POSSIBLE FOR CHRISTMAS LIGHTING LOCATION SHOWN IN APPROXIMATE. VERIFY EXACT LOCATION AND ALL REQUIREMENTS WITH OWNER/ARCHITECT PRIOR TO ANY ROUGH-IN.
- 11 WIRE THROUGH LIGHTING CONTROL PANEL LCP-1.
- 12 RECEPTACLE INSTALLED IN SOFFIT FOR LIGHTING. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ANY ROUGH-IN.
- 13 PROVIDE 4-POLE LIGHTING CONTACTOR FOR POOL LIGHTING CIRCUITS. WIRE COIL OF CONTACTOR THROUGH LIGHTING CONTROL PANEL LCP-1 FOR TIME/CLOCK CONTROL.
- 14 ALL POOL EQUIPMENT PROVIDED AND ASSOCIATED ELECTRICAL EQUIPMENT AND WIRING BY POOL CONSULTANT.
- 400L 2-POLE NON-FUSED DISCONNECT SWITCH IN NEMA 3R ENCLOSURE.



POWER PLAN
 SCALE: 1/4" = 1'-0"



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 1320 N WITH STREET LEOLA, KS 66151
 913.492.2410 WWW.PKMRNG.COM
 MO State Certificate of Authority #E-200202086



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POWER PLAN

LIGHT FIXTURE SCHEDULE

FIXTURE TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LED MODULE / DRIVER				DIMMING	VOLTAGE	REMARKS	
				ID	WATTS	LUMENS	CRI				
A	WILLIAMS	6DR SERIES	6" ROUND RECESSED DOWNLIGHT - DIE-FORMED STEEL PAN WITH FINISHED EXTRUDED ALUMINUM PASSIVE HEAT SINK - OPEN SELF-FLANGED, SEM-SPECULAR LOW INDEX FINISH ALUMINUM REFLECTOR WITH WIDE BEAM DISTRIBUTION - 10" LENS OVER DIODES AND IC-RATED HOUSING	L20	19	1782	80	3000K	0-10V	120	1
A4	WILLIAMS	6DR SERIES	SAME AS TYPE A EXCEPT WITH A DIFFERENT LUMEN PACKAGE	L20	13.8	1487	80	3000K	0-10V	120	1
A5	WILLIAMS	6AR SERIES	6" ROUND RECESSED DOWNLIGHT - DIE-FORMED STEEL PAN WITH FINISHED EXTRUDED ALUMINUM PASSIVE HEAT SINK - OPEN SELF-FLANGED, SEM-SPECULAR LOW INDEX FINISH ALUMINUM REFLECTOR WITH WIDE BEAM DISTRIBUTION - 10" LENS OVER DIODES AND IC-RATED HOUSING	L30	31.3	2917	80	3000K	0-10V	120	1
A6	WILLIAMS	6AR SERIES	6" ROUND RECESSED DOWNLIGHT - DIE-FORMED STEEL PAN WITH FINISHED EXTRUDED ALUMINUM PASSIVE HEAT SINK - OPEN SELF-FLANGED, SEM-SPECULAR LOW INDEX FINISH ALUMINUM REFLECTOR WITH WIDE BEAM DISTRIBUTION - WETCO LENS OVER DIODES AND IC-RATED HOUSING	L30	31.3	2917	80	3000K	0-10V	120	1
B	WILLIAMS	4DR SERIES	4.5" ROUND RECESSED DOWNLIGHT - DIE-FORMED STEEL PAN WITH FINISHED EXTRUDED ALUMINUM PASSIVE HEAT SINK - OPEN SELF-FLANGED, SEM-SPECULAR LOW INDEX FINISH ALUMINUM REFLECTOR WITH MEDIUM BEAM DISTRIBUTION - 10" LENS OVER DIODES AND IC-RATED HOUSING	L20	19.8	2005	80	3000K	0-10V	120	1
B2	WILLIAMS	4DR SERIES	4.5" ROUND RECESSED DOWNLIGHT - DIE-FORMED STEEL PAN WITH FINISHED EXTRUDED ALUMINUM PASSIVE HEAT SINK - OPEN SELF-FLANGED, SEM-SPECULAR LOW INDEX FINISH ALUMINUM REFLECTOR WITH NARROW BEAM DISTRIBUTION - WETCO LENS OVER DIODES AND IC-RATED HOUSING	L20	19.8	2005	80	3000K	0-10V	120	1
C	PROGRESS	FR00190-001-30	2x3 LIGHT LED SCENE FOR BATHROOM VANITY FURNISH WITH DOWNWARD FACING LUMINAIR MATTE BLACK SHADES AND BRUSHED NICKEL FINISH	-	THREE (3) 100 WATT E26 SOCKET	-	-	3000K	0-10V	120	1,2
F	WILLIAMS	7SR SERIES	4x10" LONG STANDARD STRIP FIXTURE WITH ROUND LENS AND SURFACE MOUNTING. ALL PARTS PAINTED WHITE AFTER FABRICATION	L65	42.3	8313	80	3000K	0-10V	120	1
H	CAPITAL LIGHT FIXTURE COMPANY	426501MB	CHANDLER FURNISHED, CONTRACTOR INSTALLED PENDANT LIGHT. CONTRACTOR TO PROVIDE LED BULB MAX 14W PER BULB. COORDINATE WITH OWNER FOR BULB TYPE. COORDINATE EXACT MOUNTING LOCATION WITH ARCHITECT/OWNER	-	168	1500	-	3000K	-	120	1,2,3
J	MILLENNIUM LIGHTING	R SERIES RWS17-RQ02	17" DIAMETER GOOSENECK WALL MOUNTED SHADE LIGHT. FURNISHED WITH SATIN BLACK FINISH. UL LISTED FOR WET LOCATIONS. VERIFY EXACT MOUNTING LOCATIONS AND HEIGHTS WITH ARCHITECT/OWNER	-	ONE (1) 200 WATT E26 SOCKET	-	-	3000K	-	120	1,2
K	INVE LIGHTING	ARBOR POST TOP SERIES	DECORATIVE POST-TOP SINGLE-HEAD LIGHT. LED. WITH TWO-PIECE IP68 RATED CORROSION RESISTANT ALUMINUM HOUSING. WAVESTRIP LED OPTICS TYPE II DISTRIBUTION WITH 2" ROUND, ALUMINUM, TAPERED 14-0" TALL POLE BASE WITH COVER	B3	96	8740	80	3000K	0-10V	120	1
S1	MCGRAW-EDISON	GALLEON LED GLEON SERIES	POLE MOUNTED AREA LIGHT. LOW-PROFILE, ONE-PIECE DIE-CAST ALUMINUM HOUSING. LIGHT SQUARE LED ARRAY. REFER TO LAMP SPECIFICATIONS FOR QUANTITY. 18" TYP H. WIDE DISTRIBUTION. DIE CAST ALUMINUM MOUNTING ARM. PROVIDE WITH 15" HIGH SQUARE STRAIGHT STEEL POLE. POWDER COAT FINISH DARK BRONZE - COORDINATE EXACT COLOR WITH ARCHITECT AND OWNER	S430	191	23,522	70	3000K	ND	120	1
S2	MCGRAW-EDISON	GALLEON LED GLEON SERIES	SAME AS TYPE S1 EXCEPT WITH HOUSE SIDE SHIELD	S430	191	23,522	70	3000K	ND	120	1
XE	DUAL-LIFE	EVC SERIES	COMBINATION EMERGENCY LIGHTING UNIT / EXIT LIGHT. UV-STABLE THERMOPLASTIC HOUSING. FINISH WHITE. ADJUSTABLE EYEBALL STYLE LIGHTING HEADS WITH GLASS LENS FOR EMERGENCY LIGHT. EXIT SIGN TO HAVE RED LETTERS WITH DIRECTIONAL ARROWS AS INDICATED ON THE PLANS. MAINTENANCE-FREE LITHIUM ION PHOSPHATE BATTERY FOR 90 MINUTE OPERATION OF LAMPS AND EXIT SIGN. FURNISH WITH CAPACITY FOR REMOTE HEAD. FULLY AUTOMATIC, SOLID-STATE CHARGER WITH TEST SWITCH AND AC-ON INDICATOR.	-	TOTAL POWER CONSUMPTION = 2.4 WATTS EMERGENCY FOUR (4) HIGH-OUTPUT LED EXIT FOUR (4) HIGH-OUTPUT LED	-	-	-	-	120	-
ERH	DUAL-LIFE	EVO	OUTDOOR REMOTE WITH 2 HEADS. BLACK FINISH	-	2 WATT HEADS	-	-	-	-	120	1

REMARKS:
 1. FURNISH WITH AND INSTALL ALL NECESSARY HARDWARE AND MOUNTING BRACKETS.
 2. FURNISH WITH CREW SCREW-IN BASE OMBIDIRECTIONAL LED LAMPS IN LIEU OF INCANDESCENT LAMPS. USE 9W LAMPS FOR 60W INCANDESCENT, 8W FOR 40W, 13.3W FOR 75W, AND 18W FOR 100W.
 3. FIXTURE IS OWNER-PROVIDED. CONTRACTOR INSTALLED. COORDINATE EXACT ROUGH-IN REQUIREMENTS PRIOR TO CONSTRUCTION.

GENERAL NOTES APPLICABLE TO ALL FIXTURES:
 1. EQUALS ARE ACCEPTABLE ON ALL LIGHT FIXTURES UNLESS SPECIFICALLY NOTED OTHERWISE. REFER TO SPECIFICATIONS FOR APPROVED EQUAL FIXTURE MANUFACTURERS.
 2. ALL DRIVERS ARE INTEGRAL TO FIXTURE UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS FOR ADDITIONAL FIXTURE/DRIVER/BALLAST REQUIREMENTS.
 3. ALL FIXTURES WITH PAINTED METAL PARTS SHALL BE PAINTED AFTER FABRICATION.
 4. LUMENS LISTED FOR LED FIXTURES ARE GENERALLY DELIVERED LUMENS UNLESS NOTED OTHERWISE.
 5. ALL EXTERIOR LED FIXTURES ARE FULL CUTOFF UNLESS NOTED OTHERWISE.
 6. ALL FIXTURES IN FOOD PREPARATION OR SERVING AREAS SHALL BE FURNISHED WITH SHATTER-RESISTANT LAMPS UNLESS NOTED.
 7. ALL FIXTURES SHALL BE IC RATED OR PROVIDED WITH INSULATION SHIELDS WHEN INSTALLED IN INSULATED AREAS OF THE TRUSS SPACE.
 8. FOR ALL FIXTURES INSTALLED IN RATED ASSEMBLIES, FURNISH AND INSTALL APPROVED FIRE BARRIER (E.Z. BARRIER OR TENANT FF109 SERIES) OVER FIXTURE TO MAINTAIN 1 HOUR CEILING ASSEMBLY RATING.
 9. FIXTURE TO BE SELECTED BY OWNER AND FURNISHED AND INSTALLED BY CONTRACTOR.

SINGLE-SECTION PANELBOARD SCHEDULE

PANEL DESIGNATION: **PP1**

MAIN LUG AMPS: 125
 MAIN BREAKER: M.L.O.
 VOLTAGE: 240/120
 PHASE/WIRE: 1Ø 3W

DESCRIPTION	PHASE		TRIP	POLE	C/B	PHASE		DESCRIPTION
	A	B				A	B	
SPARE	-	-	20	1	1	2	1	SPARE
SPARE	-	-	20	1	3	4	1	SPARE
SPARE	-	-	20	1	5	6	1	SPARE
SPARE	-	-	20	1	7	8	1	SPARE
SPARE	-	-	20	1	9	10	1	SPARE
SPARE	-	-	20	1	11	12	1	SPARE
SPARE	-	-	20	1	13	14	1	SPARE
SPARE	-	-	20	1	15	16	1	SPARE
SPARE	-	-	20	1	17	18	1	SPARE
SPACE	-	-	-	-	19	20	-	SPACE
SPACE	-	-	-	-	21	22	-	SPACE
SPACE	-	-	-	-	23	24	-	SPACE
SPACE	-	-	-	-	25	26	-	SPACE
SPACE	-	-	-	-	27	28	-	SPACE
SPACE	-	-	-	-	29	30	-	SPACE
SPACE	-	-	-	-	31	32	-	SPACE
SPACE	-	-	-	-	33	34	-	SPACE
SPACE	-	-	-	-	35	36	-	SPACE
SPACE	-	-	-	-	37	38	-	SPACE
SPACE	-	-	-	-	39	40	-	SPACE
SPACE	-	-	-	-	41	42	-	SPACE
TOTALS	0	0	-	-	41	42	-	TOTALS

PANELBOARD SIZING LOAD

LOAD DESCRIPTION	CONNECTED	DEMAND	CODE MIN. (VA)
LIGHTS	0	1.25	0
RECEPTACLES	0	100VA + 50% REST	0
MOTORS	0	1.25 (LARGEST) + SUM OF REST	0
AIR CONDITIONING	0	1.00	0
SPACE HEATING	0	0.00	0
NON-CONTINUOUS	0	1.25	0
POOL EQUIPMENT	16,000	1.00	16,000
MISC. LOADS 2	0	1.00	0
SIZING LOAD:	16,000		
SIZING LOAD (AMPS):		67	

CONNECTED PHASE LOADS

PHASE	VA	AMPS
A	0	0.0
B	0	0.0
TOTALS	0	0.0

REMARKS:
 1. SQUARE D HQ PANELBOARD OR EQUAL.

TWO-SECTION PANELBOARD SCHEDULE

PANEL DESIGNATION: **CP1**

MAIN LUG AMPS: 400
 MAIN BREAKER: 400
 VOLTAGE: 240/120
 PHASE/WIRE: 1Ø 3W

DESCRIPTION	PHASE		TRIP	POLE	C/B	PHASE		DESCRIPTION
	A	B				A	B	
CONDENSING UNIT CU-1	2563	2563	30	2	3	4	1	RECEPT. POOL EQUIP
CONDENSING UNIT CU-2	1987	1987	30	2	5	6	1	RECEPT. RR 111, 112 COUNTER
WATER HEATER WH	2220	2220	25	2	9	10	1	RECEPT. RR 101 COR. EXT.
RECIRC PUMP RP-1	700	2250	15	1	11	12	1	LTS - CHRISTMAS LTS EAST
FURNACE F-1	1175	20	15	1	13	14	1	LTS - CHRISTMAS LTS WEST
RECEPT. COMP. FLEX TV	150	150	20	1	15	16	1	RECEPT. TV
RECEPT. GREAT ROOM	900	900	20	1	17	18	1	RECEPT. GREAT ROOM
RECEPT. GREAT ROOM COUNTER	195	195	20	1	19	20	1	RECEPT. GREAT ROOM REFRIG.
RECEPT. GREAT ROOM COUNTER	180	180	20	1	21	22	1	GREAT ROOM DISP.
ELECTRIC UNIT HEATER UH-1	2500	2500	30	2	23	24	1	RECEPT. GREAT ROOM COUNTER
RECEPT. COMP. FLEX	360	360	20	1	25	26	1	LTS - RR 101 CORRIDOR
LTS - POOL EQUIP/STOR.	390	390	20	1	27	28	1	LTS - POOL DECK POST LIGHTS
LTS - MEN/WOMENS	342	342	20	1	29	30	1	LTS - EXTERIOR BLDG
LTS - CONF. FLEX	280	280	20	1	31	32	1	LTS - EXTERIOR SOFFIT
LTS - MECH/STOR. POOL STOR.	186	186	20	1	33	34	1	LTS - PATIO
TOTALS	12464	11595	-	-	41	42	-	SECURITY PANEL

SECOND SECTION: CP1

MAIN LUG AMPS: 400
 MAIN BREAKER: -
 VOLTAGE: 240/120
 PHASE/WIRE: 1Ø 3W

DESCRIPTION	PHASE		TRIP	POLE	C/B	PHASE		DESCRIPTION
	A	B				A	B	
RECEPT. STORAGE	220	20	1	43	44	1	20	POOL LIGHTING CONTRACTOR
SPACE HEATING	0	0	0	0	45	46	1	LTS - PARKING LOT
LIGHTING CONTROL PANEL LCP-1	800	20	1	47	48	1	20	LTS - GREAT ROOM
RECEPT. GREAT ROOM	150	150	1	49	50	1	20	RECEPT. COOKING AREA
SPACE HEATING	260	20	1	51	52	1	15	EXHAUST FAN (2) 5
SPACE HEATING	55	55	1	53	54	1	20	SPACE
SPACE HEATING	57	57	1	55	56	1	20	SPACE
SPACE HEATING	59	59	1	57	58	1	20	SPACE
SPACE HEATING	61	61	1	59	60	1	20	SPACE
SPACE HEATING	63	63	1	61	62	1	20	SPACE
SPACE HEATING	65	65	1	63	64	1	20	SPACE
SPACE HEATING	67	67	1	65	66	1	20	SPACE
SPACE HEATING	69	69	1	67	68	1	20	SPACE
SPACE HEATING	71	71	1	69	70	1	20	SPACE
SPACE HEATING	73	73	1	71	72	1	20	SPACE
SPACE HEATING	75	75	1	73	74	1	20	SPACE
SPACE HEATING	77	77	1	75	76	1	20	SPACE
SPACE HEATING	79	79	1	77	78	1	20	SPACE
SPACE HEATING	81	81	1	79	80	1	20	SPACE
SPACE HEATING	83	83	1	81	82	1	20	SPACE
TOTALS	1580	1580	-	-	83	84	-	TOTALS

PANELBOARD SIZING LOAD

LOAD DESCRIPTION	CONNECTED	DEMAND	CODE MIN. (VA)
LIGHTS	8,542	1.25	11,928
RECEPTACLES	4,400	100VA + 50% REST	4,400
MOTORS	2,352	1.25 (LARGEST) + SUM OF REST	2,646
AIR CONDITIONING	8,100	1.00	8,100
SPACE HEATING	5,000	0.00	0
CONTINUOUS	4,872	1.25	5,846
NON-CONTINUOUS	200	1.00	200
POOL EQUIPMENT	16,000	1.00	16,000
MISC. LOADS 2	0	1.00	0
SIZING LOAD:	53,120		
SIZING LOAD (AMPS):		221	

CONNECTED PHASE LOADS

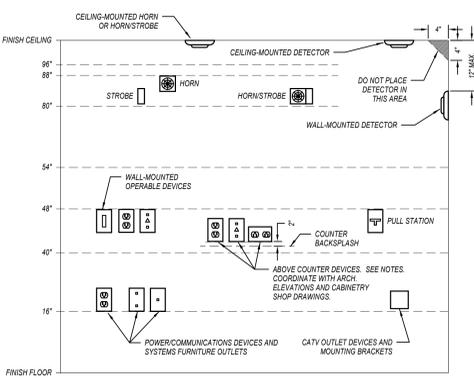
PHASE	VA	AMPS
A	18,322	152.7
B	19,349	162.2
TOTALS	38,271	159.5

REMARKS:
 1. SQUARE D HQ PANELBOARD OR EQUAL.
 2. PANELBOARD SHALL BE SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT.

EQUIPMENT FAULT CURRENT RATING SCHEDULE

EQUIPMENT	SCA **	SCCR	NOTES
PANELBOARD CP1	20,907	42,300	1,2
PANELBOARD PP1	15,096	22,000	1

NOTES:
 1. RATING BASED ON AN ASSUMED FAULT AT UTILITY CO. TRANSFORMER OF 43,490 AC.
 2. BRANCH BREAKERS IN EQUIPMENT MAY BE SERIES RATED.
 ** CALCULATIONS PERFORMED USING BUSSMANN POINT-TO-POINT METHOD.



GENERAL NOTES:
 1. MOUNTING HEIGHTS SHOWN IN THIS DETAIL ARE TYPICAL UNLESS OTHERWISE NOTED ON THE PLANS.
 2. SEE ARCHITECTURAL ELEVATIONS FOR SPECIAL CONDITIONS.
 3. ALL INSTALLATIONS SHALL COMPLY WITH ADA.

POWER/COMMUNICATIONS DEVICES:
 OUTLETS SHALL BE LOCATED AT 18" A.F.F. TO THE BOTTOM OF THE BOX. ABOVE COUNTER DEVICES SHALL BE LOCATED AT 2" ABOVE THE BACKSPLASH OF THE COUNTER TO THE BOTTOM OF THE DEVICES. VERIFY WITH ARCHITECTURAL DETAILS.

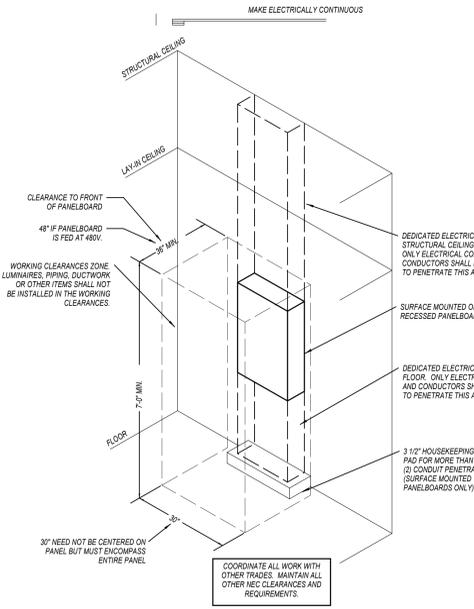
WALL-MOUNTED OPERABLE DEVICES:
 WALL-MOUNTED OPERABLE DEVICES SHALL BE LOCATED AT 48" A.F.F. TO THE TOP OF THE OPERABLE PORTION OF THE DEVICE.
 WALL-MOUNTED OPERABLE DEVICES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
 LIGHT SWITCHES, DIMMERS, CONTROLS, ETC.
 PUSH BUTTONS
 BUREAU/TENT CALL DEVICES (INCLUDING THOSE FOR STAFF USE)
 OTHER CONTROL OR "CALL" DEVICES

VISIBLE FIRE ALARM NOTIFICATION DEVICES (HORN)
 LOCATE DEVICE SO THAT THE TOP OF THE DEVICE IS BETWEEN 90" AND 84" A.F.F. (N.F.P.A. OR 6" BELOW CEILING, WHICHEVER IS LOWER (ADA 2010)).

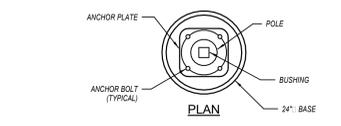
VISIBLE FIRE ALARM NOTIFICATION DEVICES (STROBE)
 LOCATE DEVICE SO THE BOTTOM OF THE DEVICE IS BETWEEN 90" AND 84" A.F.F. (N.F.P.A. OR 6" BELOW CEILING, WHICHEVER IS LOWER (ADA 2010)).

FIRE ALARM ACTIVATION DEVICES (PULL STATION)
 LOCATE FRONT APPROACH DEVICES SO THAT THE HIGHEST OPERABLE PORTION OF THE DEVICE IS NOT MORE THAN 48" A.F.F. (ADA 2010) AND NOT LESS THAN 42" A.F.F. (N.F.P.A.)

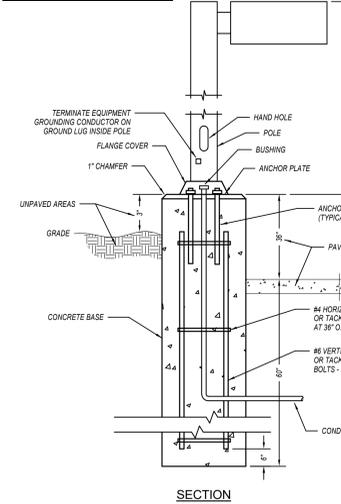
4 MOUNTING HEIGHTS FOR WALL-MOUNTED DEVICES



2 TYPICAL PANELBOARD INSTALLATION DETAIL



OVERALL FIXTURE HEIGHT FROM GRADE TO TOP OF FIXTURE HEAD NOT TO EXCEED 28'-0" OR 24'-0" WHERE THE FIXTURE ADDS RESIDENTIAL PROPERTIES.



5 POLE BASE DETAIL

