

LIGHTING FIXTURE SCHEDULE								
SYMBOL	MANUFACTURER	CATALOG NUMBER	LAMP			VOLT	MOUNTING	REMARKS
			NO.	TYPE	WATTS			
AC	LITHONIA	2ALL54-LED-40L-LP840	-	LED	32	120/277	SURFACE	--
EC	LITHONIA	LHQM-S-N-3-R-N	*	LED	*	120/277	WALL	MOUNT 6" ABOVE DOOR FRAME OR 8'-0" TO BOTTOM.
F	LITHONIA	DSXN-IQC-1000-40K-TFTM-MVOLT-ELCN-DDBXD	-	LED	40	120/277	WALL	MOUNTING HEIGHT VARIES, SEE DRAWINGS
J	KENALL	MLHA85-B48-*M48-E48-F-MN-CP-45L40K-DCG-I-DV-DL-CMB D0552	--	LED	45	120/277	WALL-CONTINUOUS	CORNER MOUNT, *QUANTITY AS REQUIRED

LIGHTING FIXTURE SCHEDULE GENERAL NOTES:
ALL LED LAMPS SHALL BE 4000K COLOR TEMPERATURE.
ALL INTERIOR LAMP COLOR TEMPERATURE SHALL MATCH.
ALL EXTERIOR COLOR TEMPERATURES SHALL MATCH.

USE OF LIGHTING FIXTURE MANUFACTURER OTHER THAN WHAT IS LISTED IS ACCEPTABLE HOWEVER, FIXTURE SHALL MATCH EXACTLY AS FIXTURE SPECIFIED. NO EXCEPTIONS. SHOP DRAWINGS UTILIZING FIXTURE MANUFACTURER NOT LISTED SHALL INCLUDE CUT SHEET INFORMATION INDICATING ALL OPTIONS SPECIFIED AND PHOTOMETRIC DATA OF FIXTURE. SHOP DRAWINGS SUBMITTED WITH UNEQUAL FIXTURES OR INADEQUATE INFORMATION WILL BE REJECTED.

PANELBOARD MDP

225A/120/240V/PH3W/25KAIC
200A/2P MAIN CIRCUIT BREAKER

TVSS

CIRCUIT NO.	DESCRIPTION	SIZE	FEEDER SIZE	CIRCUIT NO.	DESCRIPTION	SIZE	FEEDER SIZE
1	CONCESSION RECEPTACLES	20/1	2#12, 1#12G, 1/2" C	2	PRESS BOX RECEPTACLES	20/1	2#12, 1#12G, 1/2" C
3	CONCESSION RECEPTACLES	20/1	2#12, 1#12G, 1/2" C	4	PRESS BOX RECEPTACLES	20/1	2#12, 1#12G, 1/2" C
5	CONCESSION RECEPTACLES	20/1	2#12, 1#12G, 1/2" C	6	PRESS BOX RECEPTACLES	20/1	2#12, 1#12G, 1/2" C
7	CONCESSION RECEPTACLES	20/1	2#12, 1#12G, 1/2" C	8	PRESS BOX RECEPTACLES	20/1	2#12, 1#12G, 1/2" C
9	CONCESSION RECEPTACLES	20/1	2#12, 1#12G, 1/2" C	10	PRESS BOX RECEPTACLES	20/1	2#12, 1#12G, 1/2" C
11	CONCESSION RECEPTACLES	20/1	2#12, 1#12G, 1/2" C	12	PRESS BOX RECEPTACLES	20/1	2#12, 1#12G, 1/2" C
13	CONCESSION RECEPTACLES	20/1	2#12, 1#12G, 1/2" C	14	PRESS BOX LIGHTING	20/1	2#12, 1#12G, 1/2" C
15	CONCESSION RECEPTACLES	20/1	2#12, 1#12G, 1/2" C	16	INDOOR BOXES/BS BOX	20/2	2#12, 1#12G, 1/2" C
17	CONCESSION RECEPTACLES	20/1	2#12, 1#12G, 1/2" C	18			
19	CONCESSION RECEPTACLES	20/1	2#12, 1#12G, 1/2" C	20	WATER HEATER 4.5KW	25/2	2#10, 1#10G, 1/2" C
21	CONCESSION RECEPTACLES	20/1	2#12, 1#12G, 1/2" C	22			
23	CONCESSION RECEPTACLES	20/1	2#12, 1#12G, 1/2" C	24	CONDENSING UNIT	40/2	
25	CONCESSION RECEPTACLES	20/1	2#12, 1#12G, 1/2" C	26			
27	CONCESSION RECEPTACLES	20/1	2#12, 1#12G, 1/2" C	28	UNIT HEATER 1	20/2	2#12, 1#12G, 1/2" C
29	CONCESSION RECEPTACLES	20/1	2#12, 1#12G, 1/2" C	30			
31	SPARE	20/1	2#12, 1#12G, 1/2" C	32	UNIT HEATER 2	20/2	2#12, 1#12G, 1/2" C
33	SPARE	20/1	2#12, 1#12G, 1/2" C	34			
35	SPARE	20/1	2#12, 1#12G, 1/2" C	36	SPARE	20/1	
37	SPARE	20/1	2#12, 1#12G, 1/2" C	38	SPARE	20/1	
39	SPARE	20/1	2#12, 1#12G, 1/2" C	40	TVSS	*1/2	
41	SPARE	20/1	2#12, 1#12G, 1/2" C	42			

CONTRACTOR SHALL VERIFY ALL HVAC EQUIPMENT BREAKER SIZES AND FEEDERS WITH EQUIPMENT MANUFACTURER.

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CEILING OUTLET AND LED LIGHTING FIXTURE AS SCHEDULED		CIRCUIT CONCEALED IN CEILING OR WALL. CROSSBARS INDICATE NUMBER OF CONDUCTORS REQUIRED. CONDUIT NOT SIZED IS 1/2" INCH. CONDUCTORS NOT SIZED ARE NO. 12. CIRCUIT SHALL HAVE A MINIMUM OF ONE HOT CONDUCTOR, ONE NEUTRAL CONDUCTOR AND ONE GROUND CONDUCTOR.
	WALL OUTLET AND LED LAMP AS SCHEDULED.		HOMERUN TO PANELBOARD INDICATED. NUMBER OF ARROWHEADS INDICATES NUMBER OF CIRCUITS. NUMBERS INDICATES CIRCUIT NUMBER. PREFIX INDICATES PANEL NUMBER.
	CEILING OUTLET AND LED LIGHTING FIXTURE WITH EMERGENCY BATTERY POWER		SINGLE POLE 20A SWITCH. MOUNT 44" A.F.F. TO TOP, UNLESS OTHERWISE NOTED.
	WALL OUTLET AND FLUORESCENT LIGHTING FIXTURE AS SCHEDULED.		THREE WAY 20A SWITCH. 4 = 4 WAY, K = KEY, P = PILOT, M = MOMENTARY CONTACT. MOUNT 44" A.F.F. TO TOP, UNLESS OTHERWISE NOTED.
	EMERGENCY BATTERY PACK.		LOWER CASE LETTERS AT OUTLETS INDICATE SWITCHING ARRANGEMENT.
	WALL MOUNTED EMERGENCY EXIT LIGHT FIXTURE WITH DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS. MOUNT AT 7'-4" A.F.F. TO BOTTOM, UNLESS NOTED OTHERWISE.		LIGHTING CONTRACTOR. MOUNT AT 4'-0" A.F.F. TO TOP, UNLESS NOTED OTHERWISE.
	POLE LIGHT COMPLETE WITH POLE, BRACKETS, REQUIRED NUMBER OF LIGHTING FIXTURES, REINFORCED CONCRETE FOUNDATION, AND ALL ACCESSORIES.		NON-FUSED DISCONNECT SWITCH. MOUNT AT 4'-6" A.F.F. TO TOP, UNLESS NOTED OTHERWISE.
	SYMBOL INDICATES NIGHT LIGHTING CIRCUIT WHEN SHOWN ON LIGHTING PLANS ADJACENT TO FIXTURE.		FUSIBLE DISCONNECT SWITCH. MOUNT AT 4'-6" A.F.F. TO TOP, UNLESS NOTED OTHERWISE.
	SYMBOL INDICATES FIXTURE TYPE WHEN SHOWN ON LIGHTING PLANS ADJACENT TO FIXTURE.		MANUAL MOTOR CONTROLLER TO SUIT MOTOR. "P" INDICATES PILOT LIGHT. MOUNT ON UNIT, UNLESS NOTED OTHERWISE.
	WALL OUTLET WITH 20A, 125V DUPLEX RECEPTACLE. MOUNT 16 INCHES A.F.F. TO BOTTOM, UNLESS NOTED OTHERWISE. GFI INDICATES RECEPTACLE SERVED BY GROUND FAULT CURRENT INTERRUPTER CIRCUIT BREAKER. "WP" INDICATES WEATHERPROOF COVER. "TV" INDICATES TELEVISION OUTLET. MOUNT 12" A.F.F. TO BOTTOM. "L" INDICATES LOCKABLE COVER. "TP" INDICATES TAMPERPROOF RECEPTACLE.		MOTOR.
	WALL OUTLET WITH 20A, 125V DUPLEX RECEPTACLE. MOUNT HORIZONTALLY 6 INCHES ABOVE COUNTER OR ABOVE COUNTER BACKSLASH/ABOVE SHELVING ETC... TO BOTTOM, UNLESS NOTED OTHERWISE. COORDINATE EXACT MOUNTING HEIGHT WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN. GFI INDICATES RECEPTACLE SERVED BY GROUND FAULT CURRENT INTERRUPTER CIRCUIT BREAKER. "TP" INDICATES TAMPERPROOF RECEPTACLE.		CIRCUIT BREAKER
	WALL OUTLET WITH 20A, 125V DOUBLE DUPLEX (QUADRAPLEX). MOUNT HORIZONTALLY 6 INCHES ABOVE COUNTER OR ABOVE COUNTER BACKSLASH/ABOVE SHELVING ETC... TO BOTTOM, UNLESS NOTED OTHERWISE. COORDINATE EXACT MOUNTING HEIGHT WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN. GFI INDICATES RECEPTACLE SERVED BY GROUND FAULT CURRENT INTERRUPTER CIRCUIT BREAKER.		FVNR, COMBINATION, CIRCUIT BREAKER MAGNETIC MOTOR CONTROLLER, SIZE 1, MOUNT ON UNIT, NEMA AND VOLTAGE RATINGS AS REQUIRED. PROVIDE WITH HAND OFF AUTO SELECTOR SWITCH AND RUN PILOT LIGHT. PROVIDE WITH OVERLOADS BASED ON MOTOR NAMEPLATE RATINGS. PROVIDE WITH BROWNOUT AND PHASE LOSS PROTECTION.
	WALL OUTLET WITH 20A, 125V DOUBLE DUPLEX (QUADRAPLEX) RECEPTACLE. MOUNT 16 INCHES A.F.F. TO BOTTOM, UNLESS NOTED OTHERWISE.		CEILING MOUNTED MOTION SENSOR. SENSOR SWITCH XW16/XMYER OR EQUAL.
	SPECIAL RECEPTACLE FOR EQUIPMENT, VERIFY WITH EQUIPMENT MANUFACTURER.		CEILING MOUNTED MOTION SENSOR. SENSOR SWITCH CMR PDT19 OR EQUAL.

KEYLESS ACCESS SYSTEMS

- FURNISH AND INSTALL OUTLET BOX WITH CARD READER ON EXTERIOR AT 48" A.F.F. PROVIDE 1" C FROM OUTLET BOX STUBBED INTO ACCESSIBLE CEILING CAVITY.
- ELECTRIC STRIKE WITH DOOR HARDWARE. FURNISH AND INSTALL 3/4" CONDUIT FROM DOOR FRAME INTO ACCESSIBLE CEILING CAVITY. REFERENCE DOOR HARDWARE SCHEDULE. POWER SUPPLY FOR ES PROVIDED BY DOOR MANUFACTURER.

DATA/TELEPHONE SYSTEM

OWNER SHALL FURNISH AND INSTALL ALL DATA/VOICE EQUIPMENT.

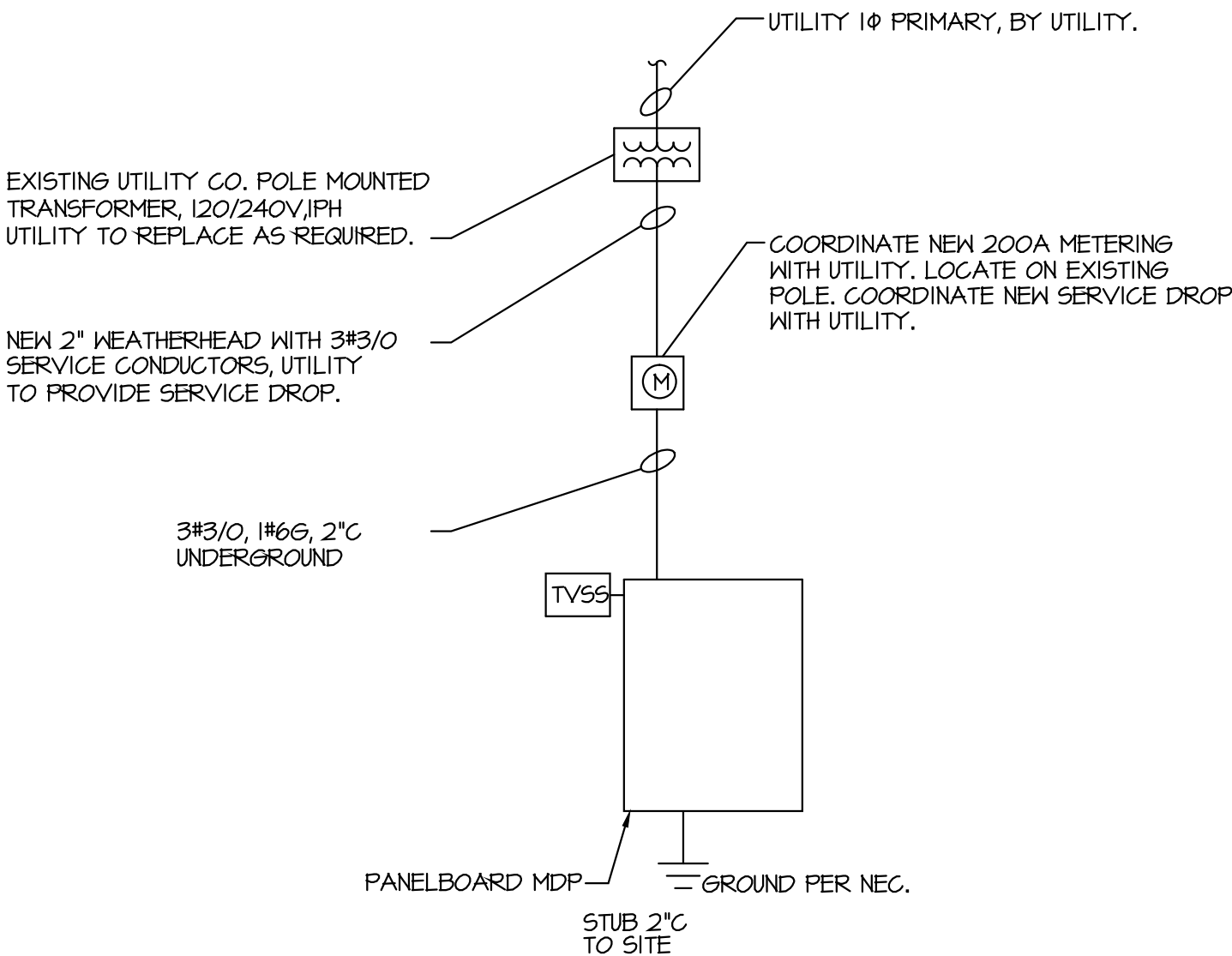
- WALL MOUNTED TELEPHONE/DATA OUTLET. MOUNT 16 INCHES A.F.F. TO BOTTOM UNLESS NOTED OTHERWISE. CONTRACTOR SHALL FURNISH AND INSTALL 1" C AND PULL STRING FROM OUTLET BOX TO DATA RACK LOCATION. FURNISH AND INSTALL BLANK FACEPLATE.
- W1 INDICATES TELEPHONE OUTLET WITH ONE TELEPHONE CABLE. MOUNT AT 48" A.F.F. TO TOP.
- OWNER FURNISHED AND INSTALLED WIFI DEVICE

ELECTRICAL SPECIFICATIONS

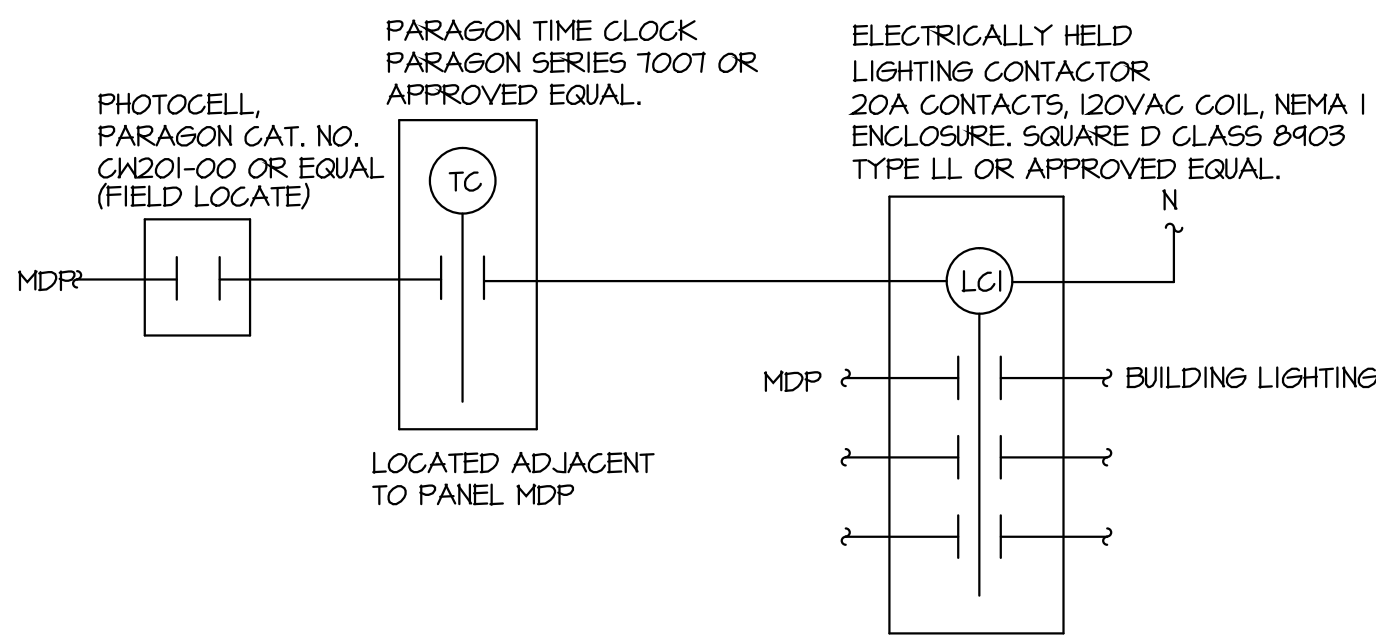
- ALL ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE AND WITH ALL OTHER APPLICABLE STATE AND LOCAL CODES.
- UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT AS INDICATED ON THE DRAWINGS. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND OF FIRST-CLASS CONSTRUCTION AND SHALL BE THE PRODUCT OF AN ESTABLISHED AND REPUTABLE MANUFACTURER AND SHALL BE DESIGNED TO PERFORM THE SERVICE REQUIRED.
- ALL ELECTRICAL SYSTEMS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE ENTIRE ELECTRICAL SYSTEM SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER AND ACCORDING TO GOOD PRACTICE.
- ALL MATERIALS USED IN THE WORK SHALL BE APPROVED BY THE UNDERWRITER'S LABORATORIES, INC., AND SHALL BEAR THEIR LABEL WHERE SUCH APPROVAL IS AVAILABLE FOR THE TYPE OF MATERIAL.
- THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, PROCURE ALL PERMITS, CERTIFICATES, AND LICENSES REQUIRED OF HIM BY LAW FOR THE EXECUTION OF HIS WORK.
- THE CONTRACTOR SHALL VISIT SITE TO OBTAIN KNOWLEDGE OF EXACT CIRCUIT DISTANCES AND INSTALLATION REQUIREMENTS.
- CONDUCTORS NO. 8 AND LARGER SHALL BE CODE GRADE THIN STRANDED COPPER WIRE. CONDUCTORS SMALLER THAN NO. 8 SHALL BE CODE GRADE THIN WIRE, SOLID OR STRANDED COPPER. MINIMUM WIRE SIZE SHALL BE NO. 12, UNLESS NOTED OTHERWISE.
- CONDUIT SHALL BE AS FOLLOWS: ENT OR MC CABLE SHALL BE USED FOR CONCEALED INTERIOR RACEWAYS AND ABOVE LAY-IN CEILINGS. LIQUID TIGHT FLEXIBLE METAL CONDUIT WITH LIQUID TIGHT CONNECTIONS SHALL BE USED FOR ALL MECHANICAL EQUIPMENT CONNECTIONS, FLEXIBLE METALLIC (NON-LIQUID-TIGHT) CONDUIT SHALL BE USED FOR LAY-IN TYPE LIGHTING FIXTURES. CONDUIT SHALL BE 1/2" MINIMUM SIZE. THE USE OF CRIMP TIGHT CONNECTORS FOR CONDUIT WILL NOT BE ALLOWED. UNDERGROUND CONDUIT SHALL BE PVC EXCEPT AT CONDUIT BEND THROUGH FLOOR WHERE CONDUIT SHALL BE RIGID. ALL WORK PER NEC, AS REQUIRED.
- DISCONNECT SWITCHES SHALL BE "HEAVY-DUTY" RATED. NEMA 1 OR 3R, AS REQUIRED.
- WIRING DEVICES (SWITCHES AND RECEPTACLES) SHALL BE 20A, 125VAC "SPECIFICATION GRADE", IVORY FINISH WITH METAL DEVICE PLATE. SWITCH DEVICES SHALL BE HUBBELL 1221 OR APPROVED EQUAL BY BRYANT, ARROW-HART, OR PASS AND SEYMOUR. RECEPTACLES SHALL BE HUBBELL #5362 SERIES OR APPROVED EQUAL BY BRYANT, ARROW-HART, OR PASS AND SEYMOUR. UTILIZE GFI WHERE INDICATED.
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS PER ARCHITECTURAL FRONT END DOCUMENTS ON ALL ELECTRICAL EQUIPMENT INCLUDING LIGHT FIXTURES, SWITCHGEAR/PANELBOARDS, WIRING DEVICES, DATA/VOICE CABLING, DISCONNECT SWITCHES/CONTACTORS/TIME CLOCK, MOTION SENSORS, TRANSFORMERS AND DATA/TELEPHONE SUPPORT SYSTEMS.
- EXAMINE ALL ARCHITECTURAL, STRUCTURAL, PLUMBING AND HVAC CONSTRUCTION DRAWINGS. COOPERATE WITH OTHER TRADES IN LOCATING COMPONENTS IN ORDER TO AVOID CONFLICT WITH OTHER TRADE'S WORK. NO CLAIM FOR COSTS WILL BE ALLOWED FOR RELOCATING EQUIPMENT, ETC., THAT INTERFERES WITH OTHER TRADES WORK.
- IN ADDITION TO EQUIPMENT GUARANTEE PROVIDED BY MANUFACTURER, THE CONTRACTOR SHALL FURNISH OWNER A WRITTEN GUARANTEE AGAINST DEFECT IN ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE OF WORK. DURING GUARANTEE PERIOD AND WITHOUT EXPENSE TO THE OWNER, REPAIR ALL DEFECTS IN WORKMANSHIP OR MATERIAL PROVIDED.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF ELECTRICAL INSTALLATION. THE EXACT LOCATION AND / OR ROUTING OF CONDUIT, RECEPTACLES, PANELS ETC., SHALL BE DETERMINED IN THE FIELD. MAKE REASONABLE MODIFICATIONS IN THE INSTALLATION AS REQUIRED BASED ON FIELD CONDITIONS.
- AT THE COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL REMOVE FROM THE SITE AND DISPOSE OF ALL RUBBISH AND DISCARDED MATERIALS.
- THE ELECTRICAL CONTRACTOR SHALL KEEP ACCURATE RECORDS OF INSTALLATION THAT DEVIATED FROM THE DRAWINGS. AT THE COMPLETION OF PROJECT, CONTRACTOR SHALL PRESENT TO THE OWNER A MARKED UP SET OF AS BUILT PRINTS WITH INDICATED CHANGES.
- ALL PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE PROVIDED WITH PROPERLY SIZED SLEAVES. SEAL ALL SLEAVES WITH APPROPRIATE CAULK.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE TRAINING TO THE OWNER ON ALL ELECTRICAL EQUIPMENT.
- CIRCUIT BREAKER PANELBOARDS SHALL BE SURFACE MOUNT, HINGED COVER, AIC RATING AS INDICATED ON BUSSING DIAGRAM. PANELBOARDS SHALL BE SQUARE D OR APPROVED EQUAL BY GE, WESTINGHOUSE, OR ITE-SIEMENS; CONTRACTOR SHALL PROVIDE DETAILED TYPED PANELBOARD DIRECTORY. PROVIDE WITH DIGITAL METER.

SEISMIC RESTRAINTS AND VIBRATION ISOLATION

- ALL HVAC, PLUMBING AND ELECTRICAL EQUIPMENT, PIPES, DUCTWORK, CONDUIT, ETC. SHALL BE RESTRAINED TO RESIST SEISMIC FORCES. RESTRAINTS SHALL MAINTAIN EQUIPMENT, PIPING, DUCTWORK AND CONDUIT IN A CAPTIVE POSITION. RESTRAINT DEVICES SHALL BE DESIGNED AND SELECTED TO MEET THE SEISMIC REQUIREMENTS AS DEFINED IN THE LATEST ISSUE OF THE KENTUCKY BUILDING CODE OR LOCAL JURISDICTION BUILDING CODE.
- PROVIDE CALCULATIONS TO DETERMINE RESTRAINT LOADS RESULTING FROM SEISMIC FORCES PRESENTED IN THE LATEST EDITION OF THE LOCAL BUILDING CODE OR KENTUCKY BUILDING CODE. SEISMIC CALCULATIONS SHALL BE CERTIFIED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF KENTUCKY AND IN THE DIRECT EMPLOY OF THE SEISMIC EQUIPMENT MANUFACTURER.
- CALCULATIONS MUST SHOW THE ENTIRE LOAD PATH FROM THE EQUIPMENT TO THE BUILDING STRUCTURE AND INDICATE THE METHOD OF ATTACHMENT OF THE EQUIPMENT TO THE SEISMIC RESTRAINT AND THE SEISMIC RESTRAINT TO THE BUILDING STRUCTURE.
- ALL DUCTWORK, PIPING, EQUIPMENT AND CONDUIT NOT REQUIRING CALCULATIONS SHALL BE SEISMICALLY SUPPORTED AND BRACED PER THE SEISMIC SUPPLIER'S INSTRUCTIONS.
- INSTALLATION INSTRUCTIONS MUST BE SUBMITTED TO THE ENGINEER PRIOR TO THE INSTALLATION OF THE EQUIPMENT.
- THE IMPORTANCE FACTOR I = 1.5.
- THE SEISMIC SUPPLIER SHALL BE ONE OF THE FOLLOWING:
AMBER / BOOTH COMPANY
MASON INDUSTRIES
KINETICS
- THE CONTRACTOR SHALL PROVIDE ANY MISCELLANEOUS STEEL OR WOOD REQUIRED FOR MOUNTING THE EQUIPMENT AND SEISMIC RESTRAINTS.
- A REPRESENTATIVE OF THE SEISMIC SUPPLIER SHALL VISIT THE JOB SITE PRIOR TO THE INSTALLATION OF ANY PIPING, DUCTWORK, CONDUIT, EQUIPMENT, ETC. AND SHALL INSTRUCT THE CONTRACTOR ON THE PROPER INSTALLATION OF THE SEISMIC RESTRAINTS. THE REPRESENTATIVE SHALL CERTIFY IN WRITING AND SUBMIT TO THE ENGINEER (WITHIN 7 DAYS OF THE INSTRUCTION) THAT THE INSTRUCTION HAS OCCURRED.
- AT THE COMPLETION OF THE PROJECT, A REPRESENTATIVE OF THE SEISMIC SUPPLIER SHALL VISIT THE JOB SITE TO VERIFY THAT ALL SEISMIC RESTRAINTS ARE INSTALLED PER CODE REQUIREMENTS AND SEISMIC SUPPLIER INSTALLATION INSTRUCTIONS. THE REPRESENTATIVE SHALL PROVIDE A WRITTEN REPORT TO THE ENGINEER OF ANY DEFICIENCIES. THE REPRESENTATIVE SHALL THEN REVISIT THE JOB SITE FOR A FINAL INSPECTION TO VERIFY THAT ALL DEFICIENCIES HAVE BEEN CORRECTED. THE REPRESENTATIVE SHALL PROVIDE TO THE ENGINEER, A WRITTEN CERTIFICATION THAT ALL SEISMIC RESTRAINTS ARE INSTALLED AS REQUIRED BY CODE AND SEISMIC SUPPLIER INSTALLATION INSTRUCTIONS.



ONE-LINE DIAGRAM
SCALE: NONE



WIRING CONTROL 'TC'
WIRING DIAGRAM
SCALE: NONE

REVISIONS	BY

DRAWN	BGC
CHECKED	-
APPROVED	-
JOB NO.	6918
DATE	1-10-19
SHEET	