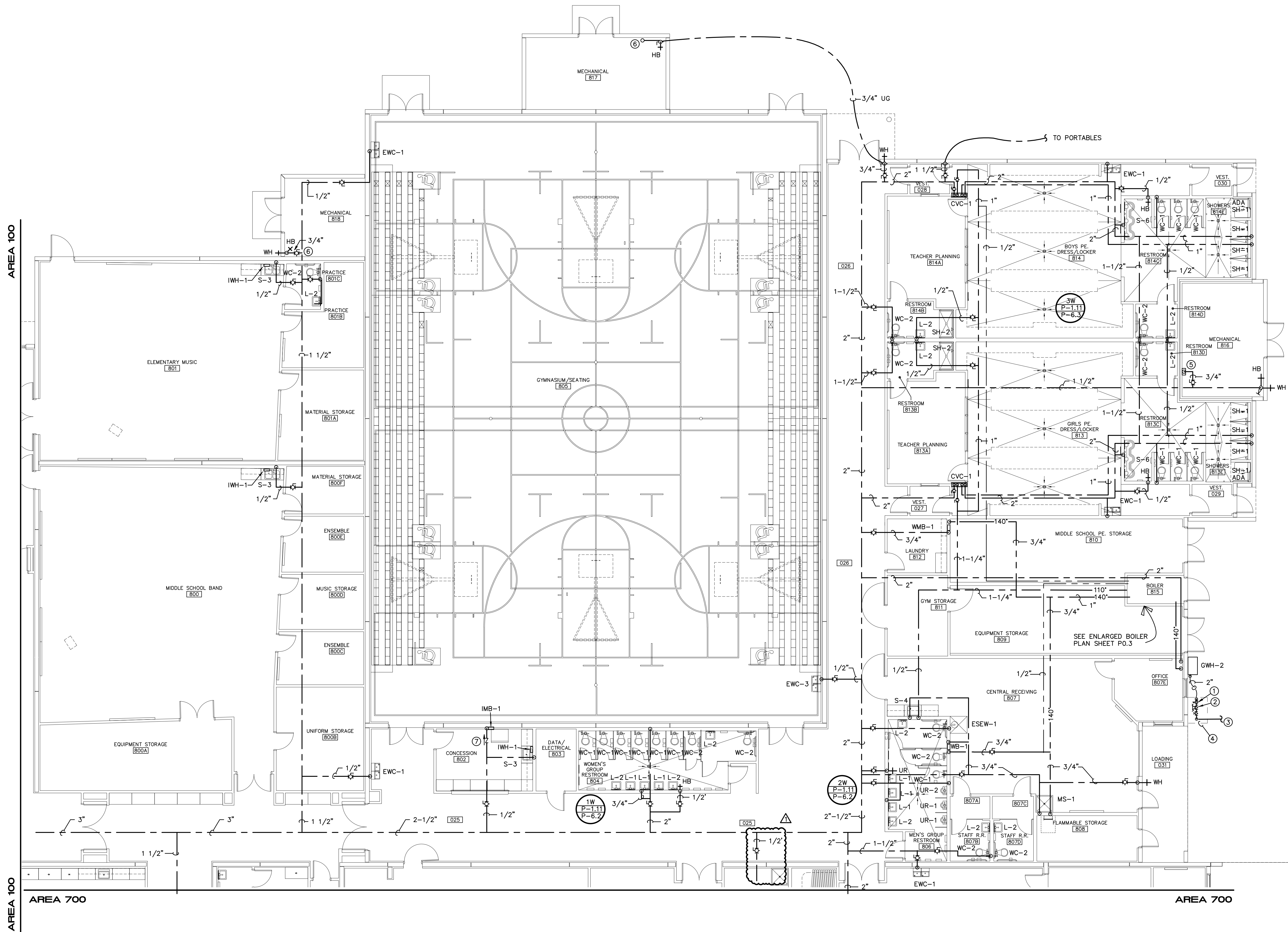


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1 FIRST FLOOR AREA 800 WATER PLAN

PLAN NOTES:

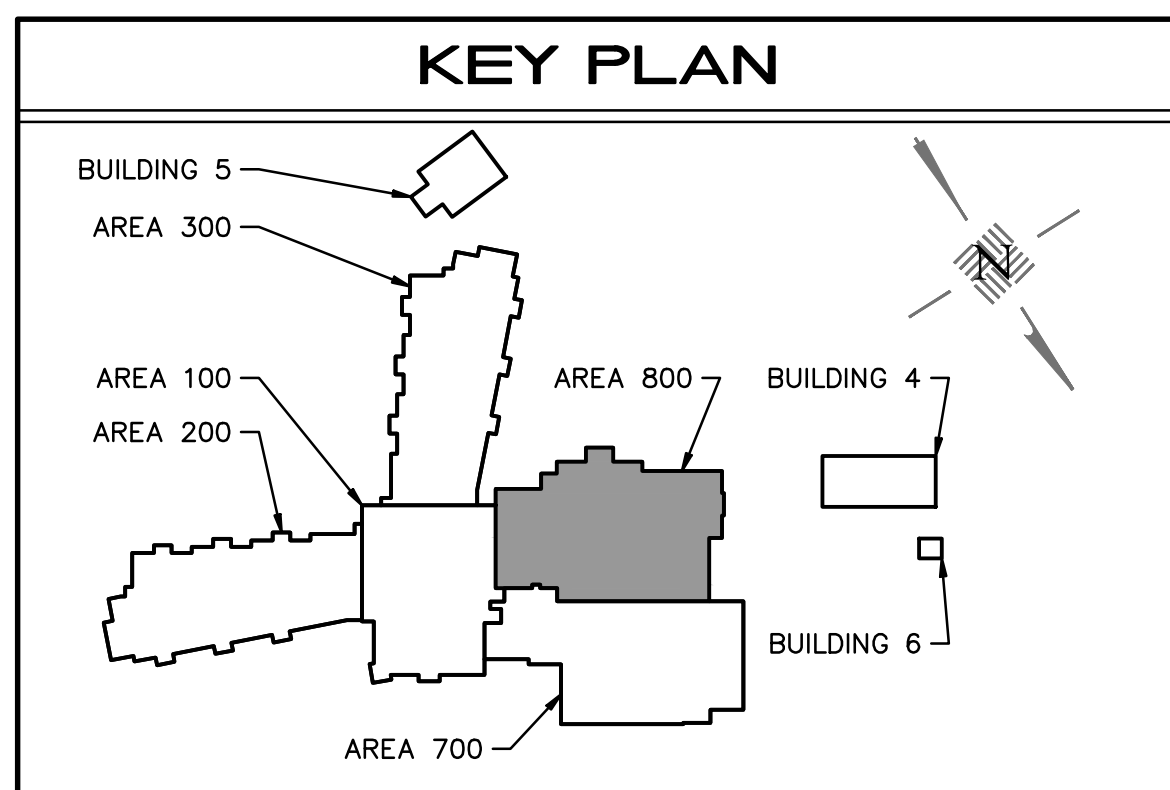
- 3/4" GAS PRESSURE REGULATING VALVE INLET PRESSURE OF 2 PSI, OUTLET PRESSURE OF 12" WC
- 3/4" GAS SOLENOID VALVE WITH MANUAL RESET CONNECTED TO FIRE ALARM SYSTEM, 120V, NORMALLY CLOSED.
- SEE SITE PLAN SHEET P0.5 FOR CONTINUATION
- PROVIDE CHAIN LINK FENCE ENCLOSURE WITH LOCKING GATE

5 PROVIDE MULTIPLE AUTOMATIC TRAP PRIMERS SIOUX CHIEF MODEL 695-ES10. PROVIDE WITH WYE SPLITTER. PROVIDE 1/2" TRAP PRIMER LINES FROM SPLITTER DOWN TO BELOW FLOOR AND CONNECT TO ALL FLOOR DRAINS IN LOCKER ROOMS, RESTROOMS, AND MECHANICAL ROOM.

6 PROVIDE ELECTRIC TRAP PRIMER VALVE WITH 1/2" BALL VALVE AND 1/2" TRAP PRIMER LINE DOWN TO BELOW FLOOR TO FLOOR DRAIN. PRIMER TO BE EQUAL TO SIOUX CHIEF MODEL #695-ES01

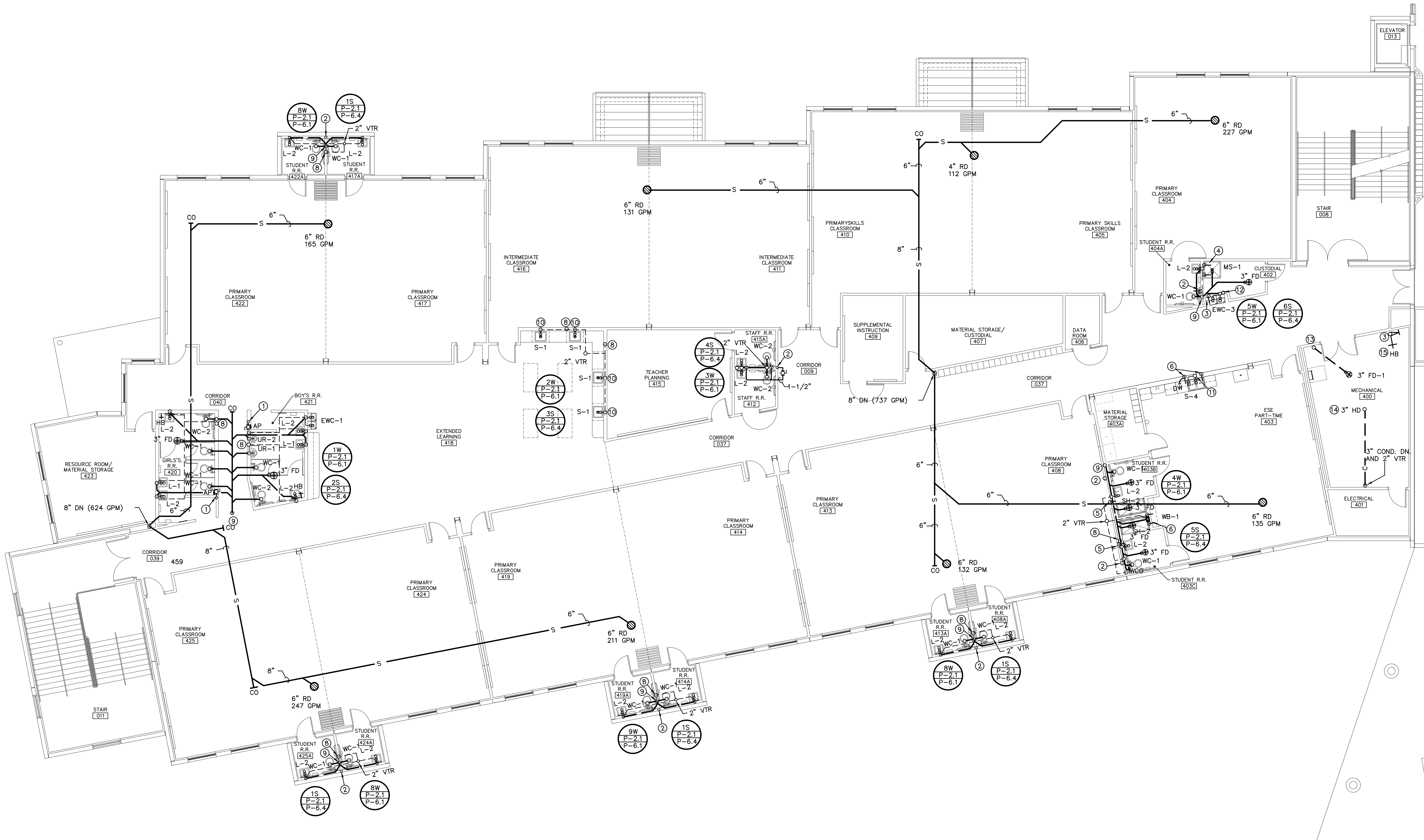
7 PROVIDE BACKFLOW PREVENTER IN WATER LINE SERVING THE ICE MACHINE

SCALE: 1/8"=1'-0"



Revisions		
No.	Date	Note
1	11/16/22	ADDENDUM 1

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1 SECOND FLOOR AREA 400 PLUMBING PLAN

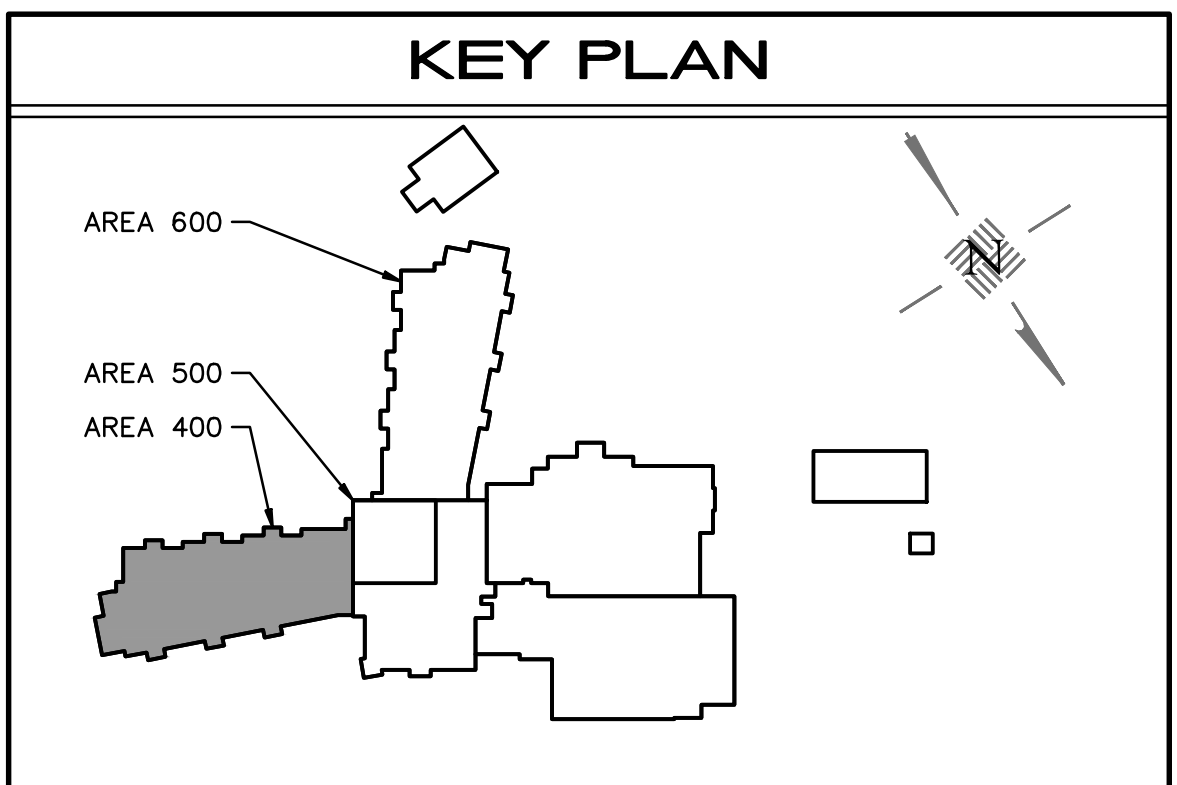
PLAN NOTES:

- 2" CW FROM BELOW
- 1-1/2" CW FROM BELOW
- 1/2" CW FROM BELOW
- 3/4" HW AND CW FROM BELOW
- 1/2" HW FROM BELOW
- 1/2" HW AND CW FROM BELOW
- 3/4" CW UP AND DOWN
- 2" VENT FROM BELOW
- 4" WASTE DOWN
- 2" WASTE DOWN
- 2" WASTE DOWN AND 2" VTR
- 3" WASTE DOWN
- 3" WASTE DOWN AND 2" VTR

- COORDINATE LOCATION WITH HVAC CONTRACTOR

19 PROVIDE AUTOMATIC ELECTRIC TRAP PRIMER EQUAL TO SIOUX CHIEF MODEL #695-ES01 OR EQUAL TO SERVE FLOOR DRAIN.

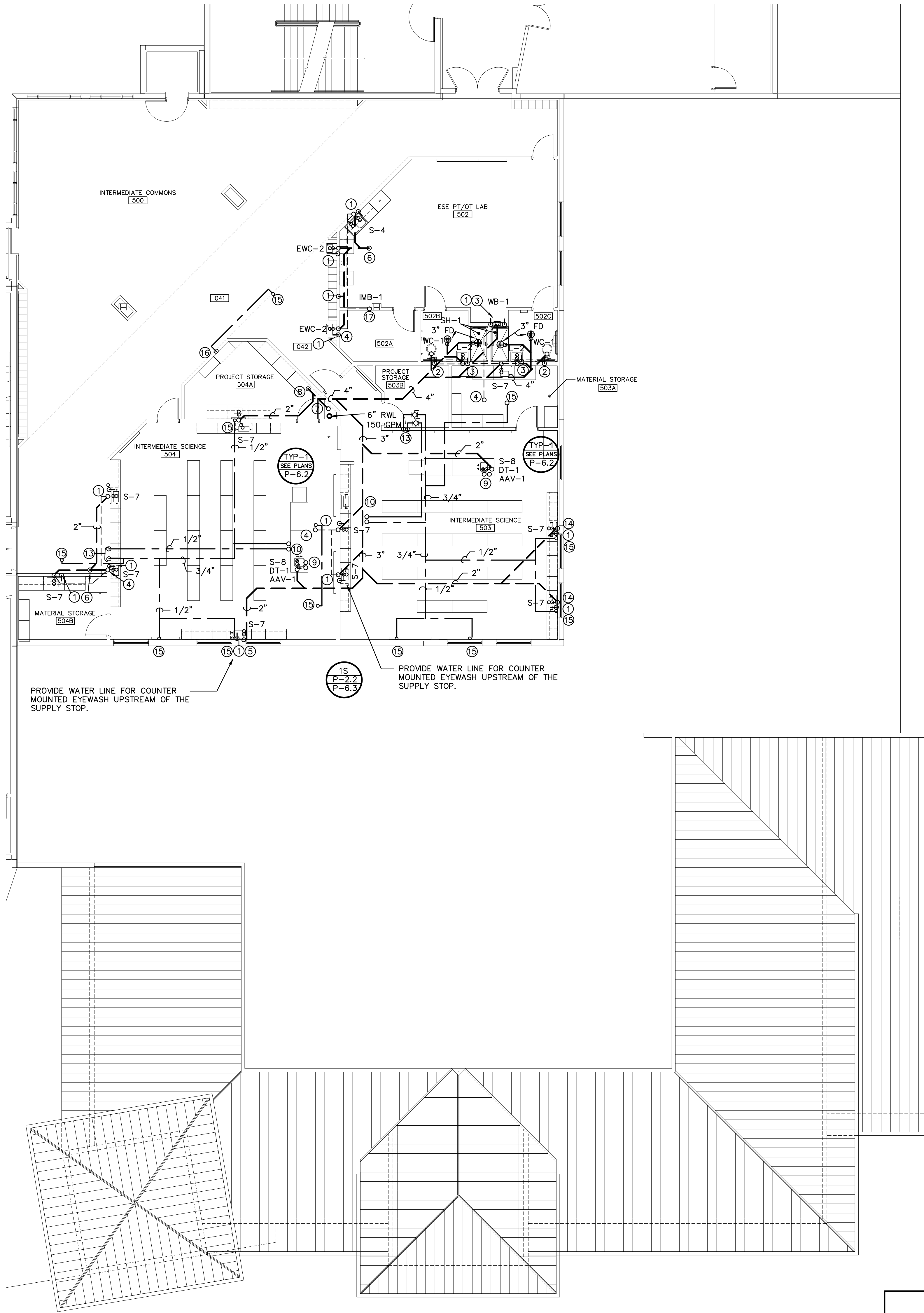
SCALE: 1/8"=1'-0"



Revisions		
No.	Date	Note
1	11/16/22	ADDENDUM 1

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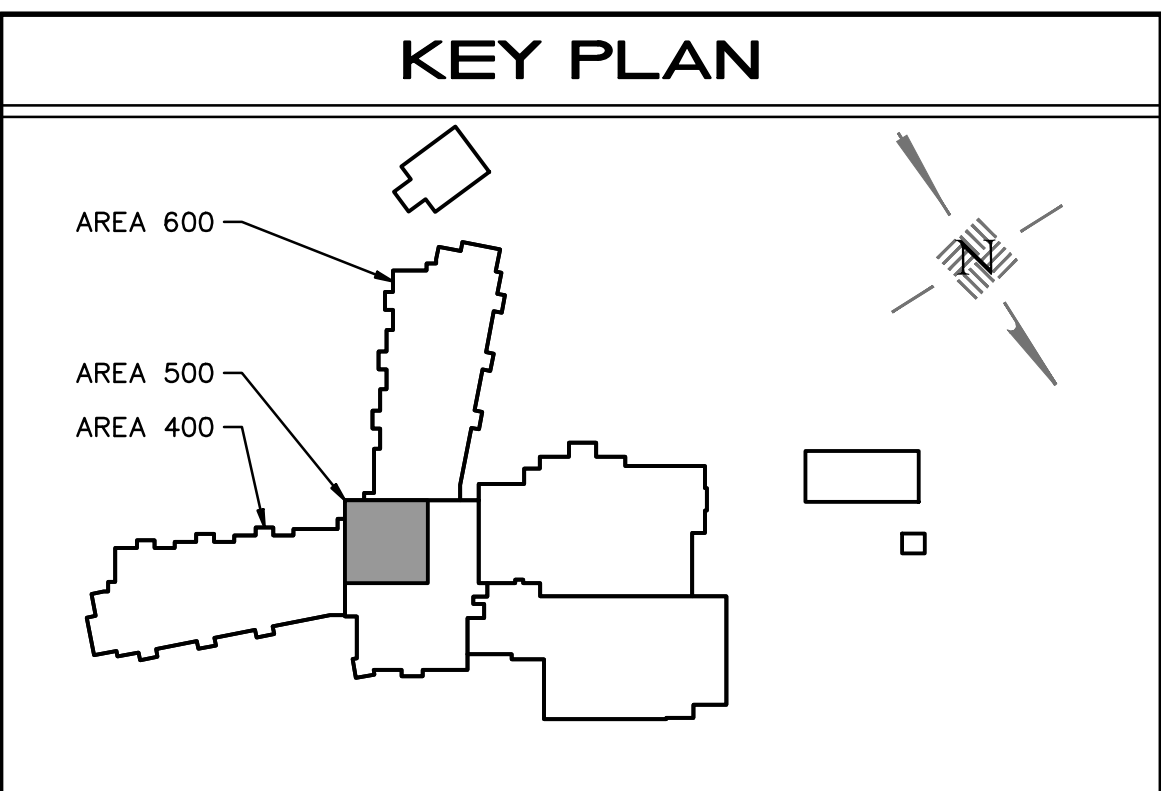
1
P.2.2

SECOND FLOOR AREA 500 PLUMBING PLAN

PLAN NOTES:

- 1/2" CW FROM BELOW
- 1-1/4" CW FROM BELOW
- 1/2" HW FROM BELOW
- 2" VENT UP
- 1-1/2" VENT UP
- 2" WASTE DOWN
- 3" WASTE FROM ABOVE
- 4" WASTE DOWN
- 1/2" HW AND 1/2" CW FROM BELOW
CONNECT TO FITTINGS ON DEMO DESK.
- 1/2" HW AND 1/2" CW UP TO 3RD FL
CONNECT TO FITTINGS ON DEMO DESK.
- 3/4" CW AND 1/2" HW FROM BELOW
- NOT USED
- 1/2" HW AND 3/4" CW FROM BELOW
- 2" WASTE FROM ABOVE
- 1/2" CW UP
- 1/2" CW FROM BELOW AND UP
- 2" VENT FROM BELOW

SCALE: 1/8"=1'-0"



HARVARD JOLLY
ARCHITECTURE

JLRD
**JOHNSON, LEVINSON,
RAGAN, DAVILA, INC.**
PLANNING ENGINEERS
1455 Outrigger Boulevard, Suite 500
West Palm Beach, Florida 33411
(561) 689-2503 (561) 689-2505 Fax

K-8 SCHOOL "OO"
ST. JOHNS COUNTY SCHOOL DISTRICT - BID # 2022-50
1455 TWIN CREEKS DRIVE,
ST. AUGUSTINE, FLORIDA 32095

Comm. No: 22046.00

Date: 10-21-22

Drawn: RRB

Revisions		
No.	Date	Note

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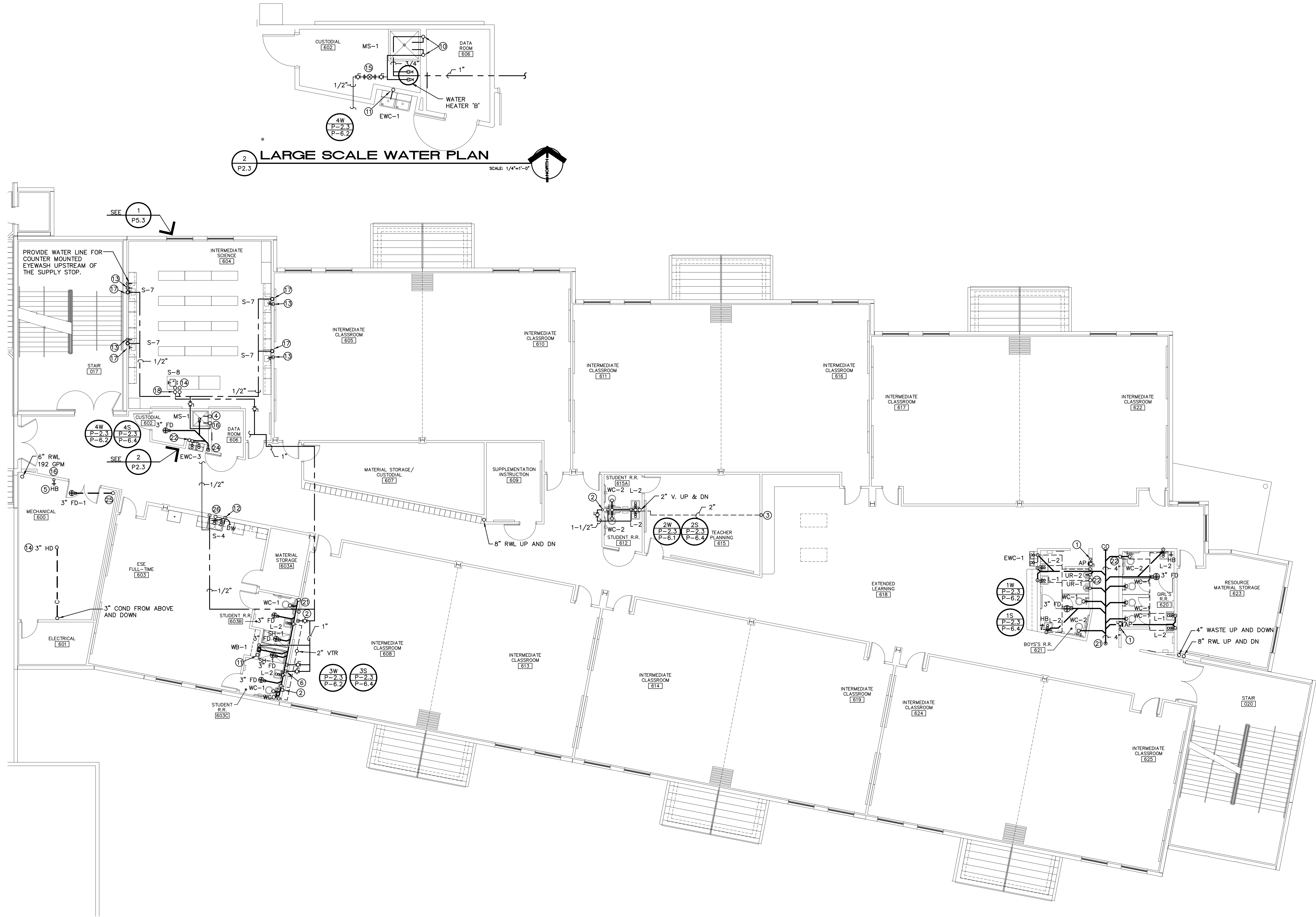
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Michael P. Jordan, P.E. 60094

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SECOND FLOOR
AREA 500
PLUMBING PLAN

P2.2

JLRD No. 102106

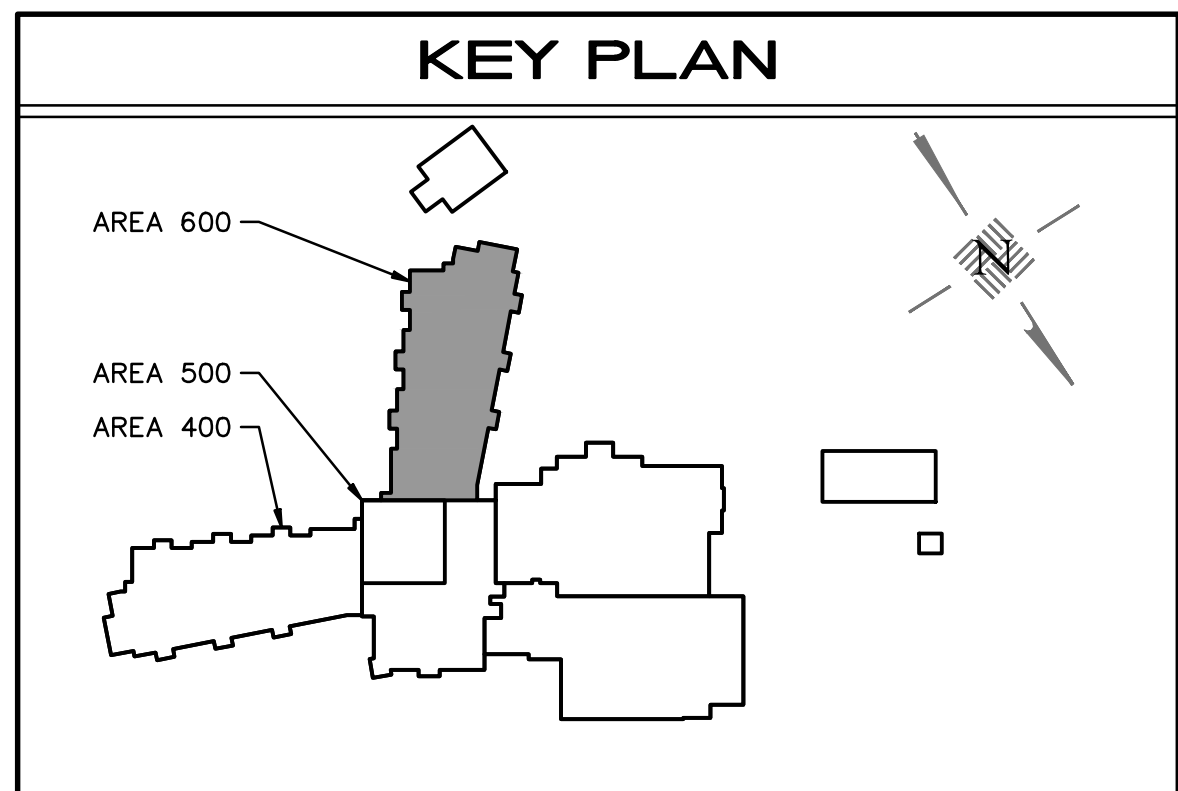
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1 SECOND FLOOR AREA 600 PLUMBING PLAN
P2.3
SCALE: 1/8"=1'-0"

PLAN NOTES:

- 1 2" CW FROM BELOW
- 2 2" CW FROM BELOW AND 1-1/2" CW UP
- 3 2" VENT FROM BELOW
- 4 3/4" HW UP AND DN
- 5 PROVIDE AUTOMATIC ELECTRIC TRAP PRIMER EQUAL TO SIOUX CHIEF MODEL #695-ES01 OR EQUAL TO SERVE FLOOR DRAIN.
- 6 1/2" HW DOWN
- 7 NOT USED
- 8 1/2" HW AND 3/4" DOWN TO 1S FLOOR CEILING
- 9 NOT USED
- 10 3/4" CW AND HW DOWN AND UP
- 11 1/2" CW FROM BELOW AND UP
- 12 3/4" CW FROM BELOW
- 13 1/2" CW FROM BELOW
- 14 1/2" HW AND 1/2" CW FROM BELOW CONNECT TO FITTINGS ON DEMO DESK.
- 15 RECIRC PUMP SEE WATER HTR SCHEDULE
- 16 3/4" CW FROM BELOW AND UP
- 17 1/2" CW UP TO S-7 ON 3RD FLOOR
- 18 1/2" HW AND 1/2" CW UP TO DEMO DESK
- 19 1/2" HW AND 3/4" CW FROM ABOVE
- 20 1-1/4" CW FROM BELOW
- 21 4" WASTE FROM ABOVE AND DOWN
- 22 2" VENT FROM BELOW AND UP
- 23 2" STACK VENT UP
- 24 3" WASTE DOWN
- 25 3" WASTE FROM ABOVE AND DOWN
- 26 2" WASTE SACK FROM ABOVE AND DOWN

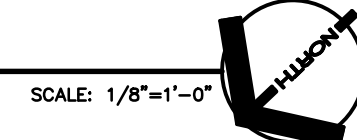


Revisions		
No.	Date	Note
1	11/16/22	ADDENDUM 1

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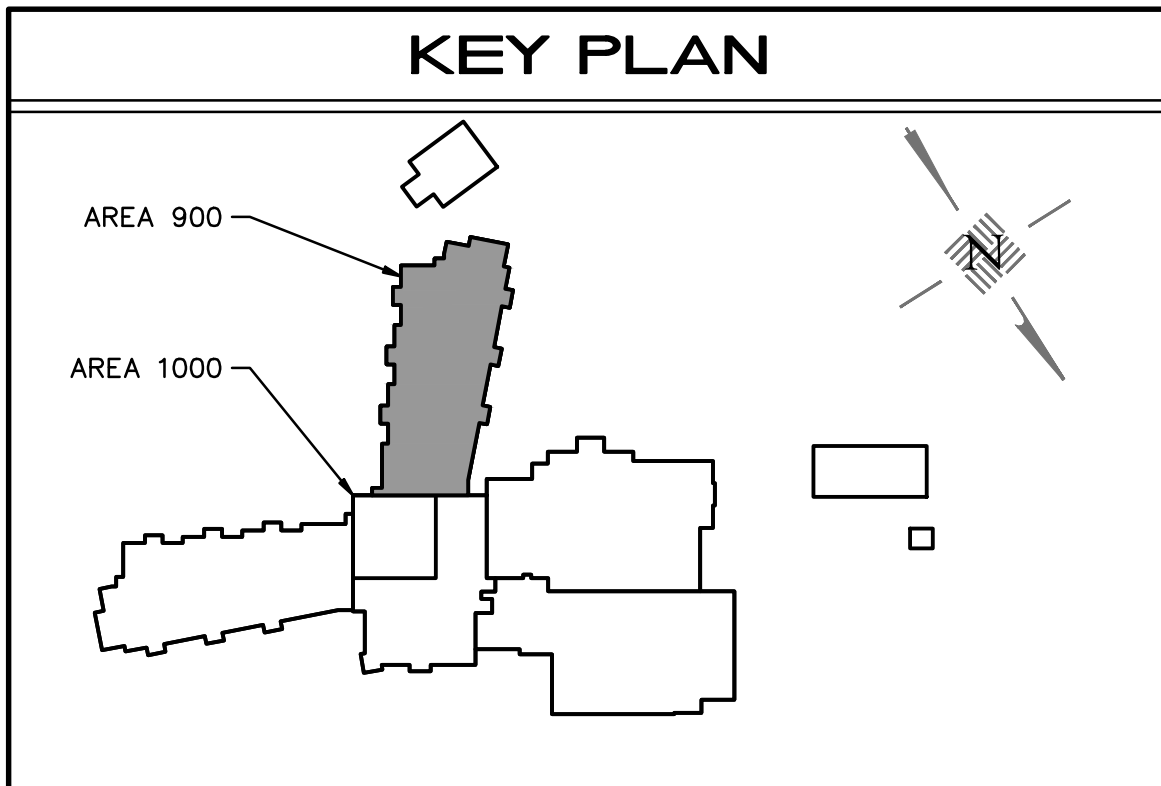


1 THIRD FLOOR AREA 900 PLUMBING PLAN



PLAN NOTES:

- 1 2" CW FROM BELOW
- 2 3/4" CW FROM BELOW
- 3 1-1/4" CW FROM BELOW
- 4 3/4" CW AND HW FROM BELOW
- 5 1/2" CW FROM BELOW
- 6 1/2" HW FROM BELOW
- 7 1/2" CW AND HW FROM BELOW
- 8 1/2" HW AND 1/2" CW FROM BELOW
- 9 PROVIDE AUTOMATIC ELECTRIC TRAP PRIMER EQUAL TO SIOUX CHIEF MODEL #695-ES01 OR EQUAL TO SERVE FLOOR DRAIN
- 10 NOT USED
- 11 4" WASTE DOWN
- 12 2" VENT FROM BELOW AND 3" VTR
- 13 3" WASTE DOWN
- 14 2" STACK VENT FROM BELOW AND 2" VTR
- 15 3" WASTE DOWN AND 2" VTR
- 16 2" WASTE STACK DOWN AND 2" VTR
- 17 COORDINATE LOCATION WITH HVAC CONTRACTOR

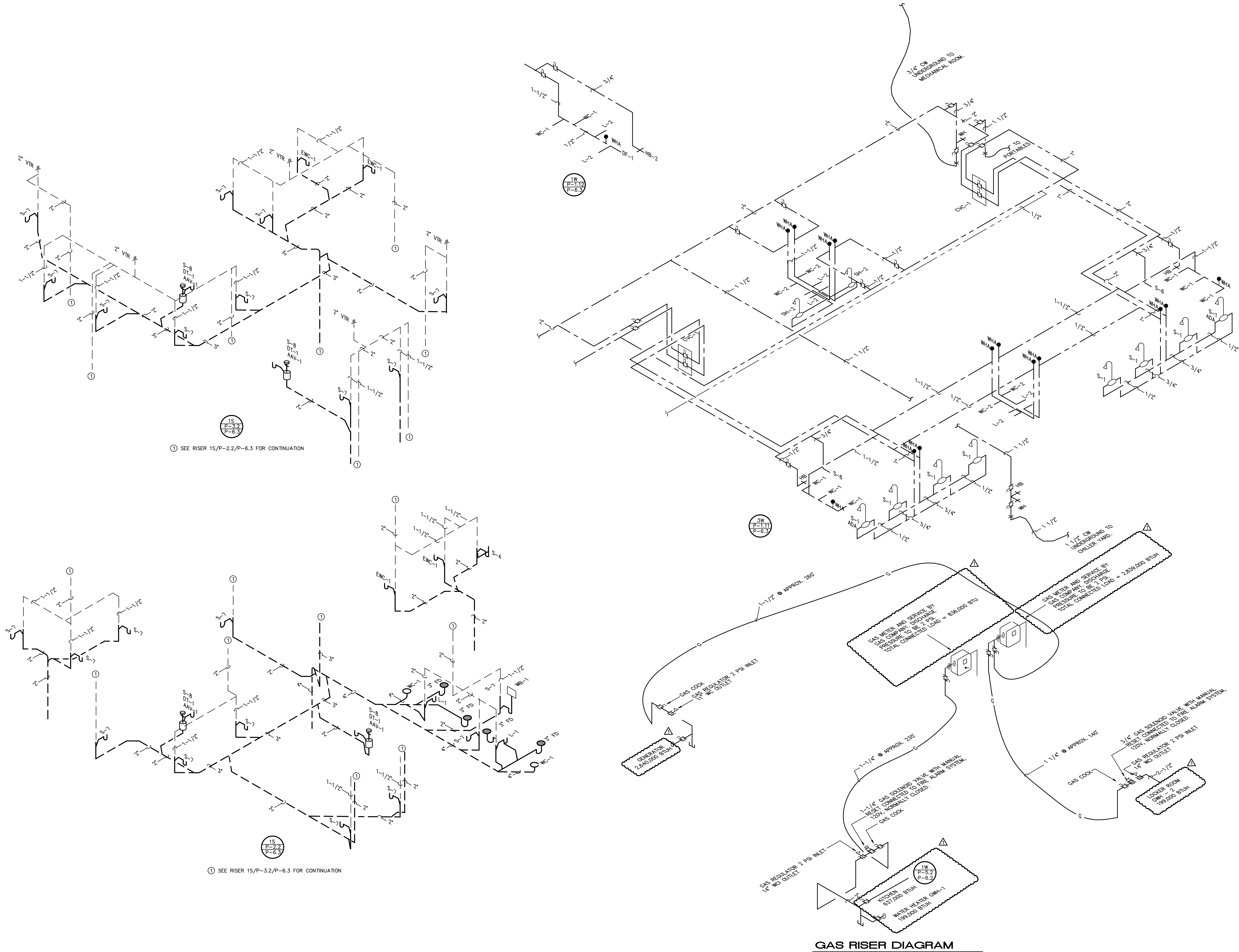


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Date:	10-21-22	
Drawn:	RRB	
Revisions		
No.	Date	Note
1	11/16/22	ADDENDUM 1

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1	11/16/22	ADDENDUM 1

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Michael P. Jordan, P.E. 60094
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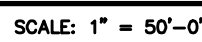
PLUMBING RISER
DIAGRAM

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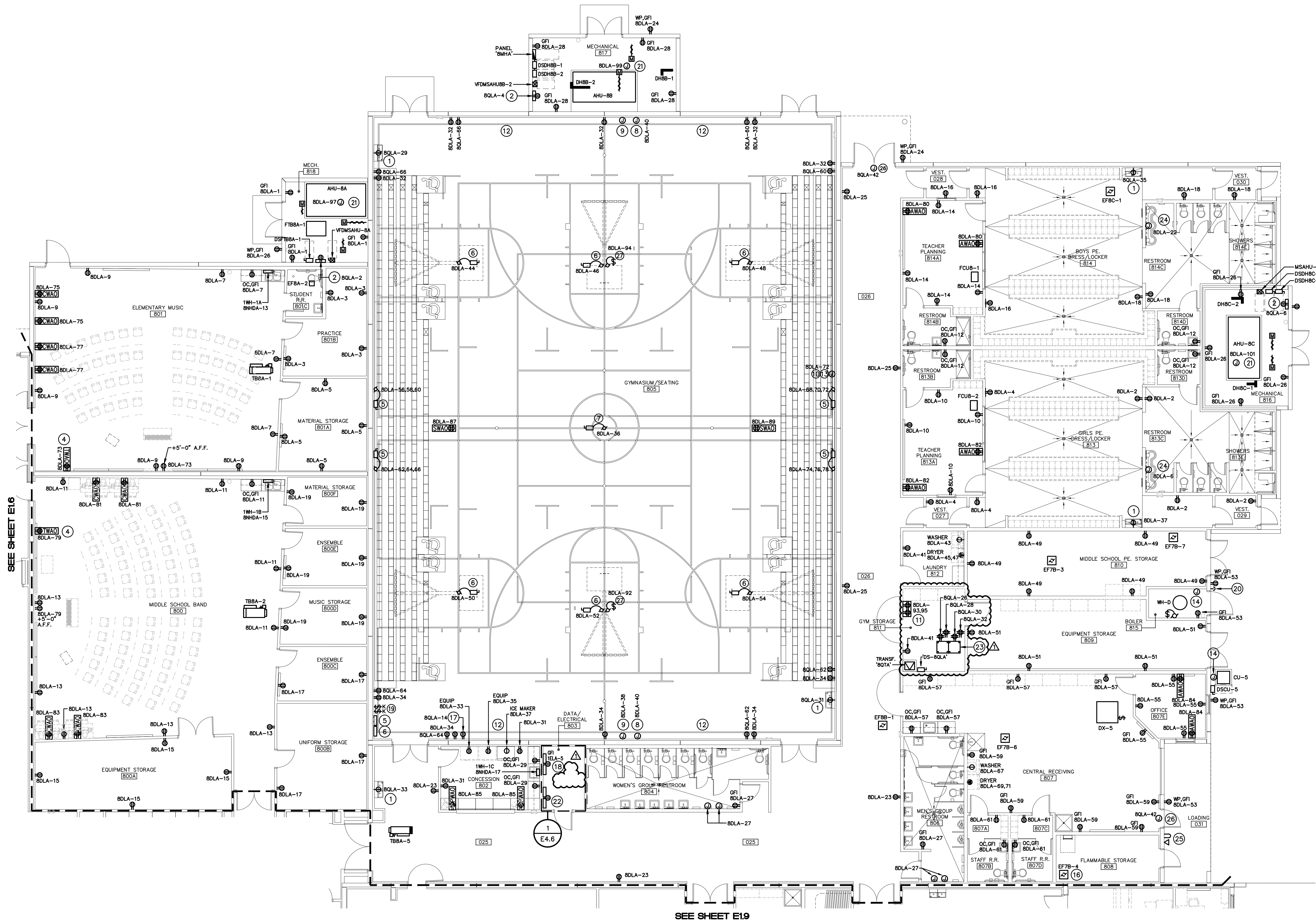
ELECTRICAL SYMBOL LEGEND					
ACCP	ACCESS CONTROL PANEL		GROUND TYPE SINGLE RECEPTACLE 120V-20A. 18" AFF UNLESS NOTED OTHERWISE		POST INDICATING VALVE SWITCH
AFD	ADJUSTABLE FREQUENCY DRIVE		GROUND TYPE DUPLEX RECEPTACLE 120V-20A. 18" AFF UNLESS NOTED OTHERWISE		TAMPER SWITCH
A.F.F.	ABOVE FINISHED FLOOR		LOCKABLE GROUND TYPE DUPLEX RECEPTACLE 120V-20A. 18" AFF UNLESS NOTED OTHERWISE		PRESSURE SWITCH
A.F.G.	ABOVE FINISHED GRADE		GROUND TYPE DUPLEX RECEPTACLE 120V-20A. MOUNT ABOVE COUNTER OR AT HEIGHT NOTED.		FLOW SWITCH
ATR	ALL THREADED ROD		GROUND TYPE DUPLEX RECEPTACLE 120V-20A. WITH INTEGRAL GROUND FAULT INTERRUPT PROTECTION.		MICROPHONE OUTLET
C	CONDUIT		GROUND TYPE DUPLEX RECEPTACLE 120V-20A. WITH WEATHER PROOF COVER.		MICROPHONE OUTLET - WALL MOUNTED "C" INDICATES CEILING MOUNTED "F" INDICATES FLOOR MOUNTED
CATV	CABLE TELEVISION		TAMPER RESISTANT GROUND TYPE DUPLEX RECEPTACLE 120V-20A. MOUNT 18" AFF UNLESS OTHERWISE NOTED.		SPEAKER-CEILING "P" INDICATES PAGING/INTERCOM SYSTEM "AE" INDICATES AUDIO ENHANCEMENT SYSTEM
CCTV	CLOSED CIRCUIT TELEVISION		GROUND TYPE DUPLEX RECEPTACLE 120V-20A. WITH BLUE FACE AND COVER. MOUNT 18" AFF UNLESS OTHERWISE NOTED.		SPEAKER-WALL "P" INDICATES PAGING/INTERCOM SYSTEM "AE" INDICATES AUDIO ENHANCEMENT SYSTEM
CT	CONTACTOR		GROUND TYPE DOUBLE DUPLEX RECEPTACLE 120V-20A. MOUNT IN TWO GANG OUTLET BOX 18" AFF UNLESS OTHERWISE NOTED.		PUSH BUTTON STATION (ONE OR MORE BUTTONS) "P" INDICATES PRIVACY TYPE "K" INDICATES KEY-OPERATED
DD	DUSK TO DAWN		GROUND TYPE DOUBLE DUPLEX RECEPTACLE 120V-20A. MOUNT IN TWO GANG OUTLET BOX 18" AFF UNLESS OTHERWISE NOTED.		EXHAUST FAN
DISTRIB.	DISTRIBUTION		GROUND TYPE DUPLEX RECEPTACLE 120V-20A. MOUNT IN FLUSH FLOOR BOX.		EMERGENCY LIGHTING RELAY
EF	EXHAUST FAN		GROUND TYPE DUPLEX RECEPTACLE 120V-20A. MOUNT IN FLUSH FLOOR BOX.		ANSUL SYSTEM
EMS	ENERGY MANAGEMENT SYSTEM		120V SPECIAL PURPOSE OUTLET (SUFFIX INDICATES AMPS)		VOLUME CONTROL AND CALL-IN BUTTON
ES	ELECTRIC DOOR STRIKE		3 WIRE 1Ø OR 4 WIRE 3Ø SPECIAL PURPOSE OUTLET (SUFFIX INDICATES AMPS)		INDICATES PAGING "ADMINISTRATION DISPLAY PHONE" (ADP)
FAAP	FIRE ALARM ANNUNCIATOR PANEL		S.P.S.T. TOGGLE SWITCH		INDICATES PAGING "ENHANCED STAFF STATION" (ESS)
FACP	FIRE ALARM CONTROL PANEL		TOGGLE SWITCH, 3 OR 4-WAY		GPS CLOCK
FAMC	FIRE ALARM MODEM CABINET		TOGGLE SWITCH, KEY OPERATED		GPS CLOCK/TRANSMITTER
FATC	FIRE ALARM TERMINAL CABINET		TOGGLE SWITCH W/PILOT LAMP		SECURITY KEYPAD (ALARM COMMAND CENTER)
FF	FINISHED FLOOR		2 WAY MOMENTARY CONTACT SWITCH		INDICATES "TELECOM/POWER" POWER POLE
GFI	GROUND FAULT INTERRUPT		MANUAL MOTOR STARTER - HP RATED (1P - SINGLE POLE OR 2P - TWO POLE)		FIRE ALARM SHUT-DOWN RELAY
IDF	INTERMEDIATE DISTRIBUTION FRAME (VOICE)		LINE VOLTAGE INCANDESCENT DIMMER (1000W UNLESS NOTED OTHERWISE)		MOTION SENSOR AND RELAY-CEILING MOUNTED FOR LIGHTING AND HVAC CONTROL
LB	FITTING "L"-BACK		TRANSFORMER - SEE SCHEDULE FOR RATING		MEDIA CABINET
MCB	MAIN CIRCUIT BREAKER		MOTOR		ADMINISTRATIVE WORK AREA OUTLET
MDF	MAIN DISTRIBUTION FRAME (VOICE)		COMBINATION MOTOR STARTER/VFD SEE SCHEDULE FOR RATING		CLASSROOM WORK AREA OUTLET
N1	INDICATES "NEMA SIZE ONE" STARTER		DISCONNECT SWITCH SEE SCHEDULE FOR RATING		KITCHEN WORK AREA OUTLET
N.L.	INDICATES UNSWITCHED NIGHT LIGHT		120/208V PANELBOARD		MEDIA CENTER WORK AREA OUTLET
OC	MOUNT DEVICE AT OVER COUNTER HEIGHT		277/480V PANELBOARD		POINT OF SALE WORK AREA OUTLET
PMT	PAD MOUNTED TRANSFORMER		GROUND CONNECTION		TEACHER WORK AREA OUTLET
SCA	SHORT CIRCUIT AMP		LINE VOLTAGE THERMOSTAT		STORAGE WORK AREA OUTLET
S.P.D.T.	SINGLE POLE, DOUBLE THROW		SWITCHING SEQUENCE		AUDIO ENHANCEMENT EQUIPMENT
TTB	TELEPHONE TERMINAL BOARD		EQUIPMENT SCHEDULE NOTATION		BROADBAND OUTLET
TC	TIME CLOCK		CC OUTLET		BROADBAND ORIGINATION OUTLET
TELE.	TELEPHONE		T.V. ORIGINATION OUTLET		MULTIMEDIA INTERFACE PLATE LOWER-POWERED UPPER-PASSIVE
TELECOMM	TELECOMMUNICATIONS		JUNCTION PULL BOX		SECURED ACCESS DOOR
TR	TELECOMMUNICATIONS ROOM		JUNCTION PULL BOX, MOUNT FLUSH IN FLOOR BOX		SECURITY - KEYPAD (ALARM COMMAND CENTER)
MTR	MAIN TELECOMMUNICATIONS ROOM		SECURITY JUNCTION BOX		SECURITY - DOOR CONTACT
WAO	WORK AREA OUTLET		PHOTO-CELL		SECURITY - MOTION SENSOR
WAP	WIRELESS ACCESS POINT		CARD READER		ELEVATOR WARNING LIGHT
W/O	WITH OUT		SECURITY CAMERA		WIRELESS ACCESS POINT
WG	WIRE GUARD		COMMUNICATIONS OUTLET - VOICE/DATA "TOMBSTONE" STYLE		CCTV MONITOR
WP	WEATHERPROOF		COMMUNICATIONS OUTLET - VOICE/DATA		CONDUIT AND WIRE TAG
—	CONDUIT ROUTED EXPOSED		"POINT OF SALES" - OUTLET		CARD ACCESS JUNCTION BOX
----	CONDUIT ROUTED UNDERGROUND		COMMUNICATIONS OUTLET - MOUNT FLUSH IN FLOOR BOX		AIRPHONE TYPE SYSTEM
—E—	ELECTRICAL DUCTBANK		TELEPHONE OUTLET		EMERGENCY PUSHBUTTON
—C—	COMMUNICATIONS DUCTBANK		BELL		VOLUME ADJUSTMENT
	LIGHTING FIXTURE (SEE FIXTURE SCHEDULE)		FIRE ALARM HORN/STROBE	PANELBOARD NAMING SCHEME	
	FIXTURE - WALL MOUNT (SEE FIXTURE SCHEDULE)		FIRE ALARM STROBE LIGHT ONLY		
	LIGHTING FIXTURE (SEE FIXT. SCHEDULE)		FIRE ALARM PULL STATION		
	LIGHTING FIXTURE (WALL BRACKET) SEE FIXT. SCHEDULE		FIRE ALARM SPEAKER		
	LIGHTING FIXTURE WIRED TO EMERGENCY CIRCUIT		FIRE ALARM SPEAKER/STROBE		
	LIGHTING FIXTURE WIRED TO EMERGENCY CIRCUIT		CEILING MOUNTED CARBON MONOXIDE DETECTOR		
	TRACK LIGHTING - HEADS AS INDICATED ON THE PLANS		COMBINATION FIXED TEMPERATURE AND RATE OF RISE HEAT DETECTOR		
	SITE POLE - SINGLE HEAD		CEILING MTD. SMOKE DETECTOR (PHOTO ELECTRIC TYPE)		
	SITE POLE - DUAL HEAD		DUCT MOUNTED SMOKE DETECTOR (PHOTO ELECTRIC TYPE)		
			SMOKE DETECTOR REMOTE INDICATOR/RESET		
			MAGNETIC DOOR HOLDER		
			MECHANICAL DAMPERS		

GENERAL ELECTRICAL NOTES	
1.	ALL ELECTRICAL WORK SHALL COMPLY WITH NATIONAL ELECTRICAL CODE, THE NATIONAL FIRE CODES, THE AMERICANS WITH DISABILITIES ACT, AND THE FLORIDA STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (SREF).
2.	THE CONTRACTOR SHALL THOROUGHLY REVIEW THE PROJECT TO ENSURE THAT ALL WORK SHALL MEET OR EXCEED THE ABOVE REQUIREMENTS. ANY ALLEGED DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO BID.
3.	THE CONTRACTOR IS DIRECTED TO OBTAIN COPIES OF ALL RELATED PLANS, SPECIFICATIONS, SHOP DRAWINGS AND ADDENDUM TO COORDINATE THE RELATED WORK AND SCHEDULING.
4.	THE CONTRACTOR IS REMINDED THAT ELECTRICAL SERVICE TO AND FOR MECHANICAL AND OTHER EQUIPMENT ARE BASED ON EQUIPMENT DESIGN DATA. THE VALUES MAY DIFFER DEPENDING UPON THE ACTUAL EQUIPMENT TO BE FURNISHED. ANY MODIFICATION TO THE ELECTRICAL, BASED UPON ACTUAL EQUIPMENT SELECTION, SHALL RESULT IN NO ADDITIONAL COST TO THE OWNER.
5.	THE CONTRACTOR SHALL THOROUGHLY REVIEW THE ARCHITECTURAL AND MECHANICAL PLANS TO ASSURE THAT ELECTRICAL SERVICE FOR ALL ITEMS AND/OR EQUIPMENT REQUIRING ELECTRICAL SERVICE IS INCLUDED. ANY ITEM AND/OR EQUIPMENT NOT PROVIDED WITH ELECTRICAL SERVICE, REQUIRING ELECTRICAL SERVICE, SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION.
6.	MECHANICAL AND ELECTRICAL EQUIPMENT HAVE BEEN LOCATED AND ARRANGED TO MINIMIZE THE INTERFERENCES OF EQUIPMENT AND STRUCTURE. THE CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE WORK TO BE PERFORMED BY OTHER TRADES AND THE PHYSICAL CHARACTERISTICS OF THE STRUCTURE IN ORDER TO SCHEDULE AND INSTALL EQUIPMENT AND TO MINIMIZE POSSIBLE INTERFERENCE. FAILURE TO PROPERLY COMMUNICATE AND SCHEDULE WORK WITH OTHER TRADES RESULTING IN ADDITIONAL WORK AND MATERIAL, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE MODIFICATIONS REQUIRED TO RESOLVE THE CONFLICT SHALL BE DECIDED BY THE ENGINEER.
7.	ALL PANELBOARDS SHALL BE PROVIDED WITH A TYPEWRITTEN SCHEDULE SHOWING CIRCUIT NUMBERS AND A COMPLETE DESCRIPTION OF EACH CIRCUIT INCLUDING ROOM NUMBERS.
9.	MINIMUM TRADE SIZE CONDUIT PERMITTED SHALL BE 3/4 INCH UNLESS NOTED OTHERWISE.
8.	ALL CONDUCTOR METAL SHALL BE COPPER WITH 600 VOLT INSULATION TYPE THHN. (MINIMUM SIZE SHALL BE #12AWG.) CONTRACTOR SHALL ADJUST WIRE AND CONDUIT SIZES IF OTHER INSULATION TYPES ARE USED.
10.	ALL LIGHT SWITCHES AND DUPLEX RECEPTACLES SHALL BE RATED FOR 20 AMPERE AT 125/277 VOLTS A/C. WIRING DEVICES SHALL BE MANUFACTURED BY HUBBELL OR APPROVED EQUIV. PROVIDE BARRIERS AT 277V SWITCHES WHERE REQUIRED BY N.E.C. ARTICLE 380-40).
11.	ALL ELECTRICAL WIRING DEVICES INDICATED TO BE INSTALLED IN MASONRY WALLS OR TILT-UP CONCRETE PANELS OR FLOORS SHALL BE FLUSH MOUNTED, INCLUDING BRANCH CIRCUIT PANELBOARDS, UNLESS OTHERWISE NOTED. THE CONDUITS TO ASSOCIATED ELECTRICAL EQUIPMENT SHALL BE CONCEALED IN WALLS OR FLOOR.
12.	ALL CONDUIT RUNS SHALL BE CONCEALED UNLESS SPECIFICALLY NOTED OTHERWISE.
13.	THE FIXTURE SCHEDULE IS FOR REFERENCE ONLY. MODEL NUMBERS LISTED MAY NOT INCLUDE ALL REQUIRED OPTIONS. REFER TO SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL INFORMATION. EQUAL FIXTURES OF OTHER MANUFACTURERS MAY BE SUBSTITUTED AS EQUAL. ALL SUBSTITUTIONS ARE SUBJECT TO APPROVAL AS EQUAL BY THE ENGINEER.
14.	ALL EQUIPMENT ELECTRICAL, MECHANICAL, PLUMBING, ETC. AT GROUND LEVEL IS TO BE FENCED.
15.	THE CONTRACTOR SHALL FURNISH THE AIR CONDITIONING SUBCONTRACTOR AND THE CEILING SUBCONTRACTOR COPIES OF APPROVED LIGHT FIXTURE SHOP DRAWINGS.
16.	ALL RECESSED LIGHTING FIXTURES IN FIRE RATED CEILINGS SHALL BE TENTED TO COMPLY WITH THE APPLICABLE CEILING RATING. THE CONTRACTOR SHALL VERIFY REQUIREMENTS.
17.	THE CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL SUBCONTRACTOR TO ENSURE THAT ALL NECESSARY CONDUITS FOR AIR CONDITIONING CONTROLS ARE INCLUDED. IT IS THE ELECTRICAL SUBCONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL EQUIPMENT IS WIRED PROPERLY AND ALL CONTROLS ARE OPERATIONAL. THE ELECTRICAL SUBCONTRACTOR SHALL FURNISH ALL MATERIALS NOT SUPPLIED BY THE MECHANICAL SUBCONTRACTOR.
18.	COMMUNICATION CONDUITS ARE TO BE LONG RADIUS TYPE AND SHALL CONTAIN PULL WIRES. PROVIDE PLATES FOR ALL OUTLETS.
19.	ALL SPECIAL PURPOSE OUTLETS SHALL BE PROVIDED TO MATCH EQUIPMENT TO BE SUPPLIED.
20.	THE PLANS INDICATE THE DESIRED ARRANGEMENT AND GENERAL LOCATIONS OF LIGHT FIXTURES. THE ARCHITECTURAL PLANS INDICATE ADDITIONAL DATA AS TO THE FINAL FIXTURE PLACEMENT.
21.	NO CONDUITS SHALL BE ALLOWED IN ANY SLABS ABOVE GRADE.
22.	ALL CONDUITS SHALL HAVE A SEPARATE GREEN GROUND CONDUCTOR INSTALLED FOR GROUNDING.
23.	ANY EXISTING UTILITIES LOCATED IN THE AREA OF CONSTRUCTION WHICH REQUIRE RELOCATION BY THE OWNER SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE A MINIMUM OF TEN DAYS IN ADVANCE.
24.	ALL DISCONNECT SWITCHES SHALL BE THE HEAVY DUTY TYPE WITH TIME DELAY, DUAL ELEMENT AND CURRENT LIMITING FUSES.
25.	THE CONTRACTOR SHALL CHECK THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND/OR DIMENSIONS FOR INSTALLATION OF ALL ELECTRICAL ITEMS. ALL QUESTIONABLE LOCATIONS SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
26.	ALL EMPTY CONDUITS SHALL CONTAIN JET LINE #232 POLYOFIN 200 LB. TEST PULL-LINE.
27.	ALL WORK SHOWN ON THE ELECTRICAL PLANS SHALL BE PERFORMED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
28.	CLASSROOM OCCUPANCY SENSORS SHALL PROVIDE INPUT SIGNALS TO ROOM LIGHTING AND LOCAL VAV BOXES. REFER TO DETAILS FOR EMS LIGHTING SYSTEMS.
29.	EQUIPMENT INSTALLED WITHIN CONCEALED SPACES SHALL HAVE REASONABLE ACCESS PANELS PROVIDED NEARBY FOR INSPECTION, TESTING AND SERVICE CONSIDERATIONS.
30.	THE FIRE ALARM MANUFACTURER SHALL PROVIDE CERTIFIED TECHNICIAN TO SUPERVISE THE INSTALLATION, FINAL CONNECTIONS AND TESTING OF THE FIRE ALARM SYSTEM. AT THE COMPLETION OF THE PROJECT, THE MANUFACTURER SHALL INSPECT THE SYSTEM AND CERTIFY THAT IT IS INSTALLED IN ACCORDANCE WITH NFPA 72. ALL FIRE ALARM COMPONENTS SHALL COMPLY WITH FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION LATEST EDITION REQUIREMENTS.
31.	WHERE THERE IS A CONFLICT BETWEEN THE DRAWING THE SPECIFICATIONS, THE MORE STRINGENT SHALL APPLY.
32.	THE CONTRACTOR SHALL VERIFY CEILING TYPES AND INSTALLATION REQUIREMENTS PRIOR TO ORDERING LIGHT FIXTURES.
33.	MINIMUM SIZE WIRING FOR EMERGENCY SYSTEM POWER AND LIGHTING WIRING SHALL BE #10 AWG.
34.	ALL EXPOSED CONDUIT SHALL BE PAINTED TO MATCH ADJACENT SURFACE IN FINISHED SPACES.
35.	THE CONTRACTOR SHALL COORDINATE WITH DIVISION 11 AND MECHANICAL/PLUMBING PLANS TO ENSURE THAT ALL NECESSARY CONDUITS FOR KITCHEN EQUIPMENT AND CONTROLS ARE INCLUDED IN HIS BID. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL EQUIPMENT IS WIRED PROPERLY AND ALL CONTROLS ARE OPERATIONAL. THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL MATERIAL NOT SUPPLIED BY THE KITCHEN CONTRACTOR, TO COMPLETE ELECTRICAL CONNECTIONS OF THE EQUIPMENT.
36.	WHERE GFI PROTECTION IS REQUIRED, A GFI OUTLET DEVICE MUST BE PROVIDED. "DOWNSTREAM PROTECTION" IS NOT ACCEPTABLE.
37.	RISER DIAGRAMS ARE SHOWN FOR REFERENCE. ALL REQUIRED DEVICES (AS SHOWN ON PLANS) MAY NOT BE SHOWN ON RISER DIAGRAMS. CONTRACTOR SHALL SUBMIT COMPLETE RISER AND WIRING DIAGRAMS FOR ALL SYSTEMS WITH SHOP DRAWING SUBMITTAL. REFER TO SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS.
38.	CONTRACTOR SHALL COORDINATE ALL DEVICE LOCATION WITH CASEWORK, CHALKBOARDS AND ARCHITECTURAL PLANS AND ELEVATIONS PRIOR TO ROUGH-IN.
39.	ANY DEVICE MAY BE RELOCATED WITHIN ANY ROOM PRIOR TO ROUGH-IN AT NO ADDITIONAL COST TO THE OWNER.
40.	TV OUTLETS SHALL BE LOCATED ADJACENT TO NEAREST POWER OUTLET.
41.	CONTRACTOR SHALL COORDINATE ALL DEVICE LOCATIONS WITH SCIENCE CASEWORK SUPPLIER. ALL REQUIRED WORK FOR CONNECTION OF ANY DEVICES REQUIRING POWER SHALL BE INCLUDED IN THE BID.
42.	CONTRACTOR SHALL COORDINATE WITH KITCHEN EQUIPMENT SUPPLIER TO ENSURE ALL COSTS FOR EQUIPMENT ROUGH-IN AND CONNECTIONS, ARE INCLUDED IN THE BID.
43.	CONTRACTOR SHALL COORDINATE WITH THEATER CONTRACTOR TO ENSURE ALL COSTS ASSOCIATED WITH THE EQUIPMENT ROUGH-IN AND CONNECTIONS FOR DIMMING, LIGHTING, SOUND AND ASSOCIATED SYSTEMS ARE INCLUDED IN THE BID.
44.	ALL SOUND SYSTEMS ARE TO BE COMPLETE. CONTRACTOR SHALL INCLUDE ALL REQUIRED COMPONENTS IN THE BID.
45.	ALL BATTERY TYPE EMERGENCY FIXTURES ARE TO BE CONNECTED UNSWITCHED TO THE LOCAL LIGHTING CIRCUIT.
46.	ALL RECEPTACLES FOR DRINKING FOUNTAINS ARE TO BE INSTALLED WITHIN THE UNIT CASING. COORDINATE WITH DIVISION 22 PRIOR TO ROUGH-IN. BREAKER SHALL HAVE GFI PROTECTION PER NEC 422.52, AS INDICATED ON PANELBOARD SCHEDULES.
47.	ALL SWITCHGEAR DIMENSIONS ARE BASED ON SQUARE "D" DESIGN INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT EQUIPMENT SUBMITTED WILL FIT INTO THE SPACE ALLOCATED AND MAINTAIN ALL REQUIRED CLEARANCES. THE CONTRACTOR SHALL SUBMIT 1/2" SCALE ROOM LAYOUTS FOR ALL EQUIPMENT PRIOR TO ROUGH-IN. INCLUDE EQUIPMENT OF OTHER TRADES ON THESE DRAWINGS TO ENSURE REQUIRED CLEARANCES ARE MAINTAINED. IN MULTI-SECTION SWITCHBOARDS, THE CONTRACTOR SHALL ENSURE THAT FEEDER CONDUITS STUB INTO THE RESPECTIVE SWITCHBOARD SECTION.
48.	SOME AREAS ARE USED AS RETURN AIR PLENUMS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH DIVISION 15 TO ENSURE ALL REQUIRED WORK IS INCLUDED IN THE BID.
49.	IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL EQUIPMENT INSTALLED ABOVE CEILING HAS THE REQUIRED CLEARANCES AND WORKING SPACE PROVIDED.
50.	IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE SMOKE AND HEAT DETECTORS SUBMITTED MEET THE SPACING AND COVERAGE REQUIREMENTS WHEN INSTALLED AS SHOWN ON PLANS. ANY AREAS REQUIRING ADDITIONAL DEVICES DUE TO MANUFACTURER'S REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL ALSO INCLUDE IN THE BID, THE COST, TO PROVIDE 120V TO EACH SMOKE DAMPER SHOWN IN THE DOCUMENTS.
51.	SEE SPECIFICATIONS, DIVISION 16 AND 17, FOR ADDITIONAL DEVICES TO BE INCLUDED IN THE BID.
52.	ALL EXTERIOR AND WALKWAY LIGHTING SHALL BE CONTROLLED BY THE E.M.S. (ENERGY MANAGEMENT SYSTEM). THE CONTRACTOR SHALL COORDINATE WITH E.M.S. AND SHALL INCLUDE THE COST FOR ALL REQUIRED COMPONENTS FOR TIE-IN AND CONTROL OF LIGHTING CIRCUITS IN THE BID, INCLUDE OVERRIDE RELAYS FOR ENERGIZATION WHEN TRANSFERRING TO GENERATOR POWER.
53.	DO NOT INSTALL SYSTEM COMPONENTS SUCH AS SLAVE PANELS OR BACK-UP BATTERIES ABOVE CEILINGS OR AT CEILING LEVEL.
54.	DUCT SMOKE DETECTORS SHALL BE INSTALLED WITHIN MECHANICALROOMS AND ABOVE CEILINGS AT HEIGHTS THAT ARE ACCESSIBLE FOR SERVICE, USUALLY NO MORE THAN 20 FEET ABOVE FINISHED FLOOR.
55.	THE CORRIDOR AND HALLWAY SPEAKERS SHALL BE ON SEPARATE CIRCUITS FROM SPEAKERS ON THE EXTERIOR OF THE BUILDING.
56.	DO NOT INSTALL MORE THAN FOUR (4) CORRIDOR/HALLWAY SPEAKERS, AND NO MORE THAN FOUR (4) EXTERIOR SPEAKERS ON ANY SPEAKER CIRCUIT.
57.	WIRING TO DOOR SWITCH AND FOR POWER TO FLY FANS SHALL BE IN CONDUIT CONCEALED IN THE WALL OR WITHIN HOLLOW METAL FRAME. COORDINATE WITH FLY FAN SUPPLIER TO RECESS DOOR SWITCH IN DOOR JAMB.
58.	ALL BUILDINGS, COVERED WALKS, PRESS BOX AND SCOREBOARDS (IF NOT WITHIN ZONE OF PROTECTION), MUST HAVE COMPLETE LIGHTNING PROTECTION SYSTEM PER SPECIFICATION SECTION 16670.
59.	CONTRACTOR SHALL PROVIDE A GROUND RING AROUND THE ENTIRE PERIMETER OF EACH BUILDING. ALL ELECTRICAL GROUNDS, TELECOMMUNICATION, GROUNDS, LIGHTNING PROTECTION DOWN CONDUCTORS, ETC. SHALL BE TIED TO SYSTEM BY EXOTHERMIC WELDS.
60.	SEE SPECIFICATIONS FOR UNIT ITEM PRICING AND ADDITIONAL DEVICES.
61.	FOR AIR HANDLERS WITH MULTIPLE MOTORS AND ADJUSTABLE FREQUENCY DRIVES, ELECTRICIAN IS RESPONSIBLE FOR INTERCONNECTING CONDUIT AS REQUIRED AND CONTROLS CONTRACTOR IS RESPONSIBLE FOR ALL INTERCONNECTING CONTROL WIRING.
62.	TYPE MC CABLE IS ALLOWABLE FOR USE FOR BRANCH CIRCUITS (AND IN WALLS) DOWNSTREAM OF LOCAL JUNCTION BOX SERVING ROOM.
63.	800MHZ EMERGENCY SYSTEMS RADIO/DISTRIBUTED INTO THE SYSTEM IS REQUIRED ON THIS PROJECT, DESIGNED BY DELEGATED ENGINEER.

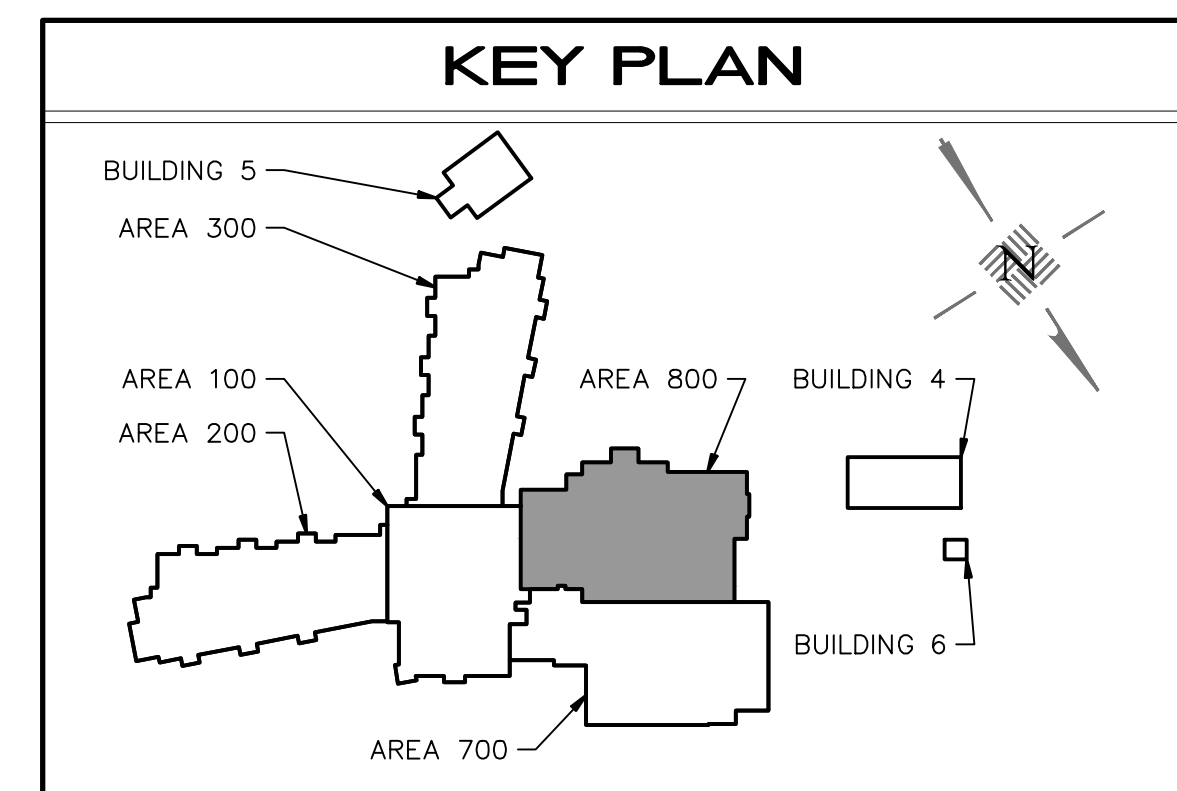
Revisions		
No.	Date	Note
1	11/16/22	ADDENDUM 1



SCALE: NONE



1 FIRST FLOOR AREA 800 POWER PLAN 15



GENERAL NOTE

VERIFY WORK AREA OUTLET CONFIGURATION WITH OWNER PRIOR TO ROUGH-IN. SEE SHEET E7.3 FOR DETAILS.

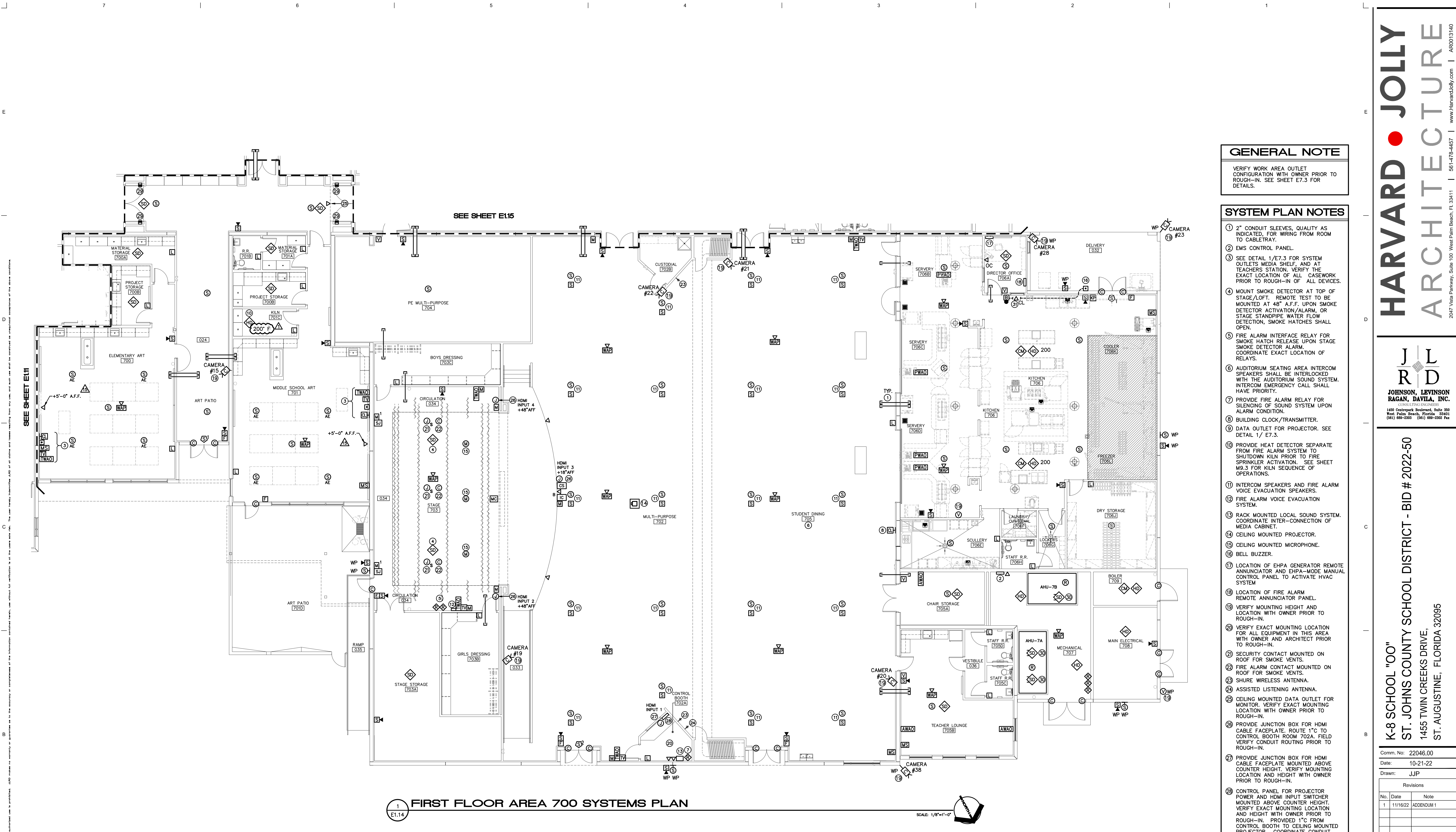
POWER PLAN NOTES

- LOCATE RECEPTACLE WITHIN DRINKING FOUNTAIN ENCLOSURE. COORDINATE LOCATION WITH DIVISION 15 PRIOR TO ROUGH-IN.
- EMS CONTROL PANEL. CONNECT TO CIRCUIT INDICATED.
- RECEPTACLE FOR PROJECTOR.
- SEE DETAIL 1/E7.3 FOR POWER OUTLETS CONTAINED WITHIN MEDIA CABINET, MEDIA SHELF, AND AT THE TEACHERS STATION. CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL CASEWORK PRIOR TO ROUGH-IN OF ALL OUTLETS.
- CONTROL PANEL AND MOTORIZED BLEACHER JUNCTION BOXES. PROVIDE 3/4"C-2#12, 1#12G HOMERUN FROM EACH BLEACHER JUNCTION BOX TO CIRCUIT INDICATED VIA CONTROL PANEL. PROVIDE RATED DISCONNECT AT EACH MOTOR. COORDINATE LOCATIONS WITH SUPPLIER AND ALL GYM EQUIPMENT. QUANTITY OF MOTORS AND RELATED CIRCUITS MAY VARY WITH SUPPLIER.
- CONTROL PANEL AND BACKBOARD ELECTRICAL OPERATOR. PROVIDE RATED DISCONNECT AT EACH MOTOR AND 3/4"C-2#12, 1#12G HOMERUN TO CIRCUIT INDICATED VIA CONTROL PANEL. COORDINATE LOCATIONS WITH SUPPLIER AND ALL GYM EQUIPMENT.
- PROVIDE 3/4"C-2#12, 1#12G HOMERUN TO CIRCUIT INDICATED VIA CONTROL PANEL FOR MOTORIZED GYM DIVIDER. PROVIDE MOTOR RATED DISCONNECT AT MOTOR AND COORDINATE LOCATION WITH SUPPLIER AND ARCHITECTURAL PLANS.
- PROVIDE 3/4"C-2#12, 1#12G HOMERUN TO CIRCUIT INDICATED FOR MOTORIZED SHOT CLOCKS. COORDINATE LOCATION WITH SUPPLIER.
- PROVIDE 3/4"C-2#12, 1#12G HOMERUN TO CIRCUIT INDICATED FOR SCOREBOARD CONTROL AND MISC. LOADS. COORDINATE LOCATION WITH SUPPLIER AND ARCHITECTURAL PLANS.
- PROVIDE 3/4"C-2#12, 1#12G HOMERUN TO CIRCUIT FOR RACK MOUNTED LOCAL SOUND SYSTEM. CONNECT TO CIRCUIT INDICATED.
- COORDINATE WALL PAD INSTALLATION WITH ALL RECEPTABLES, JUNCTION BOXES AND CONTROL PANELS.
- COORDINATE INSTALLATION OF POWER FOR SCORE KEEPER WITH BLEACHER MANUFACTURER.
- PROVIDE 3/4"C-2#12, 1#12G CIRCUITED TO 'SDA-63' AND 'SDA-63' FOR GAS WATER HEATER 'GWH-2' CONTROLS. CONNECT CIRCULATION PUMP TO CIRCUIT 'SDA-39' VIA MOTOR RATED SWITCH. COORDINATE EXACT LOCATION AND ELECTRICAL REQUIREMENTS FOR MULTIPLE WATER HEATER CONTROLS WITH DIVISION 22 PRIOR TO ROUGH-IN.
- CIRCUIT DAMPERS TO 'SDA-41' VIA 3/4"C-2#12, 1#12G. COORDINATE QUANTITY AND LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- UTILIZE CLASS 1, DIV. 1 WIRING METHODS IN THIS ROOM FOR EXHAUST FAN.
- OUTLET. MOUNT RECEPTACLE ADJACENT TO BUILDING CLOCK/TRANSMITTER. CONNECT TO CIRCUIT INDICATED.
- FIRE ALARM CONTROL PANEL AND TERMINAL CABINET. CONNECT TO CIRCUIT INDICATED.
- KEY SWITCH ASSEMBLY FOR BACKBOARD ADJUSTER. COORDINATE LOCATION WITH OWNER/ARCHITECT AND ELECTRICAL REQUIREMENTS WITH SUPPLIER PRIOR TO ROUGH-IN.
- EMERGENCY POWER SHUT-DOWN PUSH BUTTON FOR BOLLER.
- PROVIDE JUNCTION BOX FOR IONIZATION POWER EQUIPMENT AND CONNECT TO CIRCUIT INDICATED. COORDINATE EXACT MOUNTING LOCATION WITH DIVISION 23 PRIOR TO ROUGH-IN.
- INTRUSION DETECTION CONTROL PANEL AND TERMINAL CABINET.
- FLOOR MOUNTED I.T. DATA RACK.
- RUN 2#12, 1#12G - 3/4"C FOR PLUMBING ELECTRONIC VALVE (SINKS) FOR POWER TRANSFER. ENERGIZE FROM CIRCUIT INDICATED VIA JUNCTION BOX AND TOGGLE SWITCH AT EACH LOCATION. VERIFY PLUMBING REQUIREMENTS AND MOUNTING LOCATION WITH DIVISION 22 PRIOR TO ROUGH-IN.
- EXHAUST FAN EXTERIOR MOUNTING WARNING LIGHT AND SOUND BEACON. RUN 3/4"C-2#12, 1#12G TO CIRCUIT 'SDA-8'.
- JUNCTION BOX MOUNTED ABOVE CEILING FOR ACCESS CONTROL 120V POWER. COORDINATE WITH DOOR MANUFACTURER AND ARCHITECTURAL DOOR SCHEDULES PRIOR TO ROUGH-IN.
- PROVIDE MOTOR RATED SWITCH AT MOTOR AND 3/4"C-2#12, 1#12G HOMERUN TO CIRCUIT INDICATED VIA KEY SWITCH ASSEMBLY FOR BACKBOARD ADJUSTER. COORDINATE LOCATION AND ELECTRICAL REQUIREMENTS WITH SUPPLIER PRIOR TO ROUGH-IN.

Revisions		
No.	Date	Note
1	11/16/22	ADDENDUM 1

TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE MINIMUM BUILDING CODES.

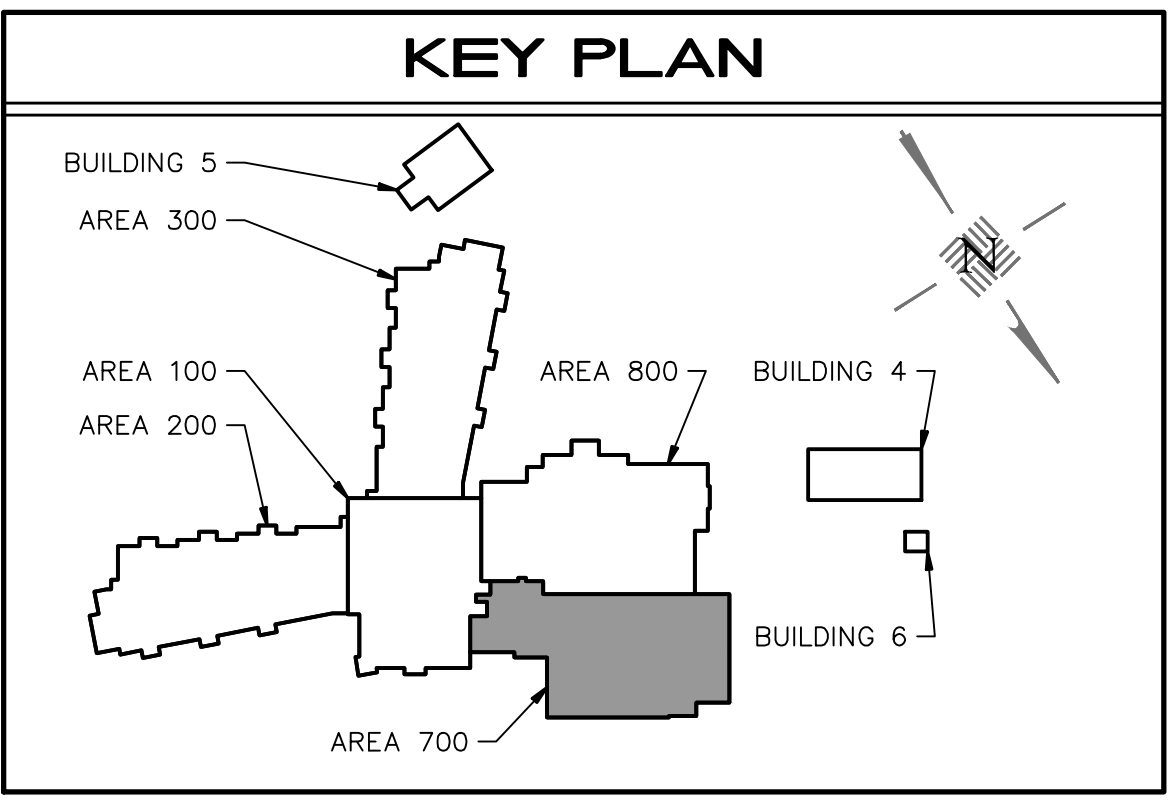
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1 FIRST FLOOR AREA 700 SYSTEMS PLAN
E1.14

SCALE: 1/8"=1'-0"

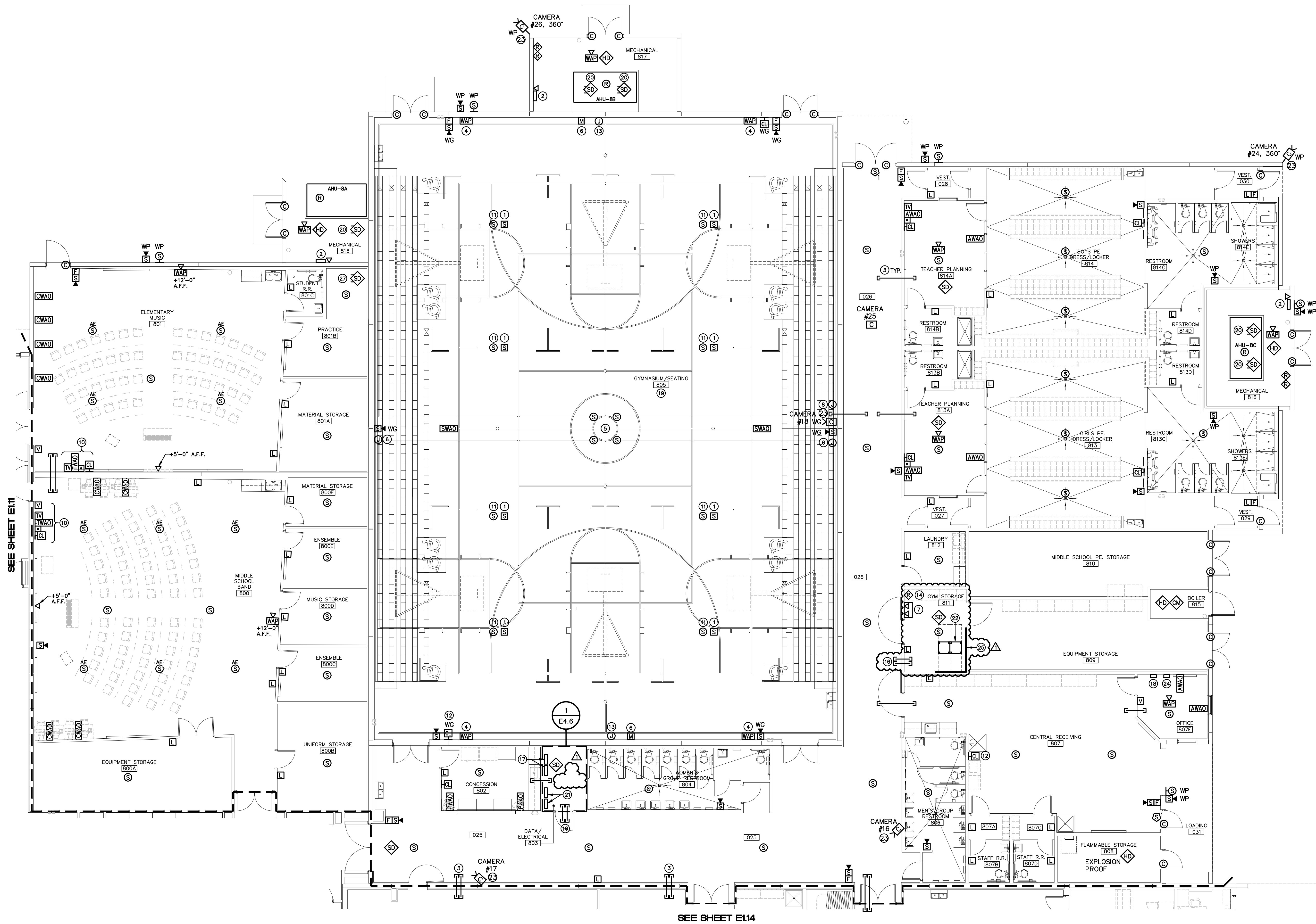
DEVICE LEGEND			
AJ S	ANTENNA JACK LOWELL SURFACE MOUNT BOX SINGLE GANG MOUNT 18" AFF ON CATWALK FACING THE STAGE	IC A	INTERCOM JACK 4" SQUARE EXTRA DEEP BOX SINGLE GANG TRIM RING FLUSH MOUNT MOUNT AT 48" AFF
CPS	STAGE LIGHTING CONSOLE PLUGGING STATION 4" SQUARE EXTRA DEEP BOX WITH A SINGLE GANG TRIM RING MOUNT AT RECEPTACLE HEIGHT.	IC B	INTERCOM JACK 4" SQUARE EXTRA DEEP BOX SINGLE GANG TRIM RING FLUSH MOUNT MOUNT AT 18" AFF
CRJ1	CONTROL ROOM JUNCTION BOX 8" X 8" X 4" SCREW COVER BOX PROVIDE AS SHOWN ON PLAN FLUSH MOUNT MOUNT BEHIND SOUND RACK	IPB	INTERCOM PULL BOX 8" X 8" X 4" SCREW COVER BOX PROVIDE AS SHOWN ON RISER ADDITIONAL BOXES MAY BE REQUIRED BY FIELD CONDITIONS
CRJ2	CONTROL ROOM JUNCTION BOX 8" X 8" X 4" SCREW COVER BOX PROVIDE AS SHOWN ON PLAN FLUSH MOUNT MOUNT BELOW CONTROL BOOTH COUNTER	JB	4"x4" JUNCTION BOX PROVIDED BY ELECTRICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR, MOUNT IN CEILING AND FURNISH FLEXIBLE CONDUIT TO CONNECT TO PIPE MOUNTED PIGTAIL BOXES
CS	CEILING SPEAKER BACKBOX PROVIDED BY THE SOUND CONTRACTOR INSTALLED BY THE ELECTRICAL CONTRACTOR INSTALL SO THE SPEAKER BAFFLE IS FLUSH WITH THE FINISHED CEILING.	LCS1	LIGHTING CONNECTOR STRIP PROVIDED BY STAGE LIGHTING CONTRACTOR. INSTALLED BY ELECTRICAL CONTRACTOR. *#DENOTES SPECIFIC NAME, SEE PLAN FOR DETAILS.
		MC	SPEAKER CLUSTER BOX 8" X 8" X 4" SCREW COVER BOX SURFACE MOUNT INSTALL IN CEILING ABOVE THE SPEAKER CLUSTER LOCATION(S) COORDINATE PLACEMENT WITH SOUND CONTRACTOR
		PB#	STAGE LIGHTING PLUG IN BOX PROVIDED BY STAGE LIGHTING CONTRACTOR. INSTALLED BY ELECTRICAL CONTRACTOR. *# DENOTES SPECIFIC NAME, SEE PLAN FOR DETAILS.
		PD1	STAGE DIMMER RACK PROVIDED BY STAGE LIGHTING CONTRACTOR. INSTALLED BY ELECTRICAL CONTRACTOR. MOUNT AS SHOWN ON PLAN.
		SJ	SPEAKER JACK 4" SQUARE EXTRA DEEP BOX SINGLE GANG TRIM RING FLUSH MOUNT MOUNT AT RECEPTACLE HEIGHT
		MX	MIC JACK 4" SQUARE EXTRA DEEP BOX SINGLE GANG TRIM RING FLUSH MOUNT MOUNT AT RECEPTACLE HEIGHT
		SPB	SPEAKER PULL BOX 8" X 8" X 4" SCREW COVER BOX PROVIDE AS SHOWN ON RISER ADDITIONAL BOXES MAY BE REQUIRED BY FIELD CONDITIONS
SPECIALTY ENCLOSURES LOWELL MANUFACTURING 100 INTEGRAL DRIVE PACIFIC, MO 63069 636-257-3400			
NOT ALL SYMBOLS SHOWN ON LEGEND ARE USED			



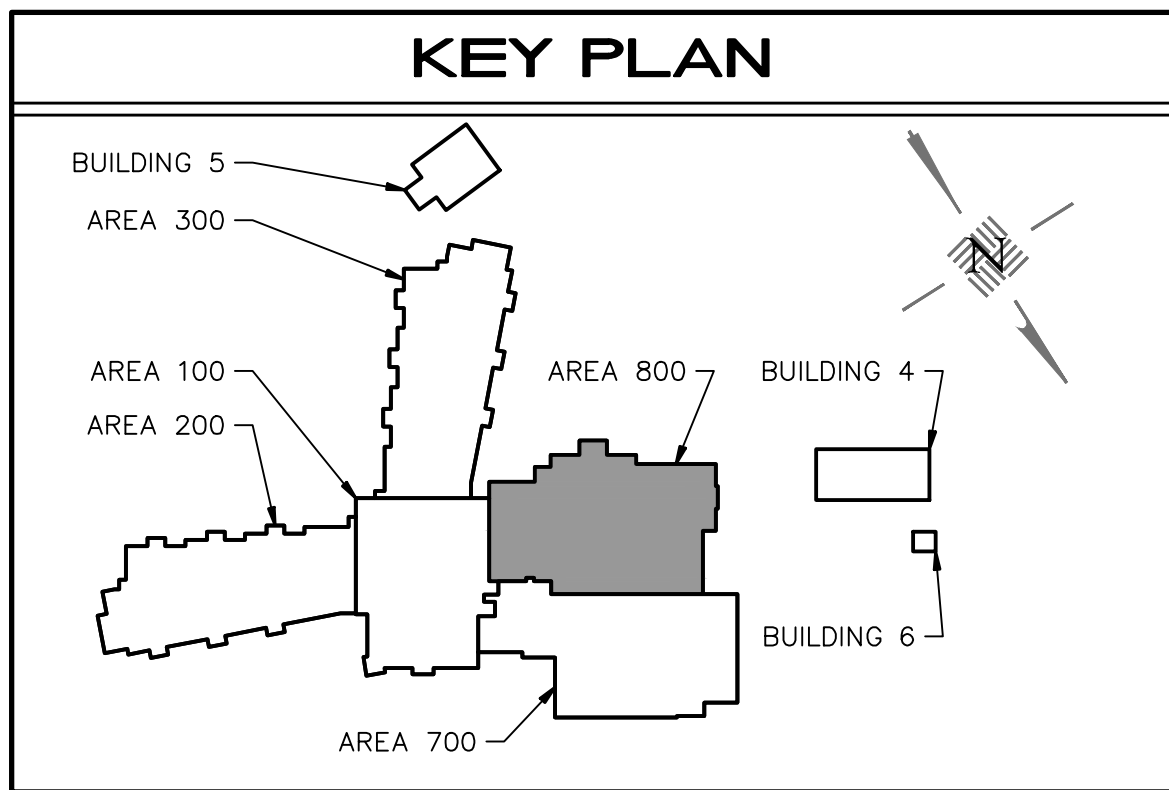
- GENERAL NOTE**

VERIFY WORK AREA OUTLET CONFIGURATION WITH OWNER PRIOR TO ROUGH-IN. SEE SHEET E7.3 FOR DETAILS.
- SYSTEM PLAN NOTES**
 - 2" CONDUIT SLEEVES, QUALITY AS INDICATED, FOR WIRING FROM ROOM TO CABLETRAY.
 - EMS CONTROL PANEL.
 - SEE DETAIL 1/E7.3 FOR SYSTEM OUTLETS MEDIA SHELF, AND AT TEACHERS STATION. VERIFY THE EXACT LOCATION OF ALL CASEWORK PRIOR TO ROUGH-IN OF ALL DEVICES.
 - MOUNT SMOKE DETECTOR AT TOP OF STAGE/LOFT. REMOTE TEST TO BE MOUNTED AT 48" A.F.F. UPON SMOKE DETECTOR ACTIVATION/ALARM, OR STAGE STANDPIPE WATER FLOW DETECTION, SMOKE HATCHES SHALL OPEN.
 - FIRE ALARM INTERFACE RELAY FOR SMOKE HATCH RELEASE UPON STAGE SMOKE DETECTOR ALARM. COORDINATE EXACT LOCATION OF RELAYS.
 - AUDITORIUM SEATING AREA INTERCOM SPEAKERS SHALL BE INTERLOCKED WITH THE AUDITORIUM SOUND SYSTEM. INTERCOM EMERGENCY CALL SHALL HAVE PRIORITY.
 - PROVIDE FIRE ALARM RELAY FOR SILENCING OF SOUND SYSTEM UPON ALARM CONDITION.
 - BUILDING CLOCK/TRANSMITTER.
 - DATA OUTLET FOR PROJECTOR. SEE DETAIL 1/ E7.3.
 - PROVIDE HEAT DETECTOR SEPARATE FROM FIRE ALARM SYSTEM TO SHUTDOWN KILN PRIOR TO FIRE SPRINKLER ACTIVATION. SEE SHEET M9.3 FOR KILN SEQUENCE OF OPERATIONS.
 - INTERCOM SPEAKERS AND FIRE ALARM VOICE EVACUATION SPEAKERS.
 - FIRE ALARM VOICE EVACUATION SYSTEM.
 - RACK MOUNTED LOCAL SOUND SYSTEM. COORDINATE INTER-CONNECTION OF MEDIA CABINET.
 - CEILING MOUNTED PROJECTOR.
 - CEILING MOUNTED MICROPHONE.
 - BELL BUZZER.
 - LOCATION OF EHFA GENERATOR REMOTE ANNUNCIATOR AND EHFA-MODE MANUAL CONTROL PANEL TO ACTIVATE HVAC SYSTEM
 - LOCATION OF FIRE ALARM REMOTE ANNUNCIATOR PANEL.
 - VERIFY MOUNTING HEIGHT AND LOCATION WITH OWNER PRIOR TO ROUGH-IN.
 - VERIFY EXACT MOUNTING LOCATION FOR ALL EQUIPMENT IN THIS AREA WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.
 - SECURITY CONTACT MOUNTED ON ROOF FOR SMOKE VENTS.
 - FIRE ALARM CONTACT MOUNTED ON ROOF FOR SMOKE VENTS.
 - SHURE WIRELESS ANTENNA.
 - ASSISTED LISTENING ANTENNA.
 - CEILING MOUNTED DATA OUTLET FOR MONITOR. VERIFY EXACT MOUNTING LOCATION WITH OWNER PRIOR TO ROUGH-IN.
 - PROVIDE JUNCTION BOX FOR HDMI CABLE FACEPLATE MOUNTED ABOVE COUNTER HEIGHT. VERIFY MOUNTING LOCATION AND HEIGHT WITH OWNER PRIOR TO ROUGH-IN.
 - PROVIDE JUNCTION BOX FOR HDMI CABLE FACEPLATE MOUNTED ABOVE COUNTER HEIGHT. VERIFY MOUNTING LOCATION AND HEIGHT WITH OWNER PRIOR TO ROUGH-IN.
 - COORDINATE DOOR HOLDER LOCATION WITH DOOR SWING PRIOR TO ROUGH-IN. WHERE CATCH PLATE EXTENSIONS ARE REQUIRED, USE MANUFACTURER SPECIFIC UL LISTED PARTS. ALL-THREAD OR CHAINLINK TYPE EXTENSIONS AND EXTENSIONS OVER 8 INCHES ARE NOT PERMITTED.
 - NFPA REQUIREMENTS STATE THAT SAMPLING TUBES MUST EXTEND AT LEAST TWO-THIRDS OF THE WAY INTO THE DUCT AND THOSE THAT ARE GREATER THAN 36 INCHES LONG MUST BE SUPPORTED AT BOTH ENDS. TO MEET THIS REQUIREMENT, DRILL A HOLE ON THE OPPOSITE SIDE OF THE DUCT, EXTEND THE SAMPLING TUBE THROUGH THE HOLE, CUT OFF THE EXCESS SAMPLING TUBE AND SEAL THE OPENING AROUND THE TUBE WITH AN APPROVED SEALANT.
 - PROVIDE DATA OUTLET MOUNTED ABOVE DROP CEILING FOR PHONE LOUD-RINGER BELL. VERIFY EXACT MOUNTING LOCATION WITH OWNER PRIOR TO ROUGH-IN.

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1
E1.15
FIRST FLOOR AREA 800 SYSTEMS PLAN



GENERAL NOTE

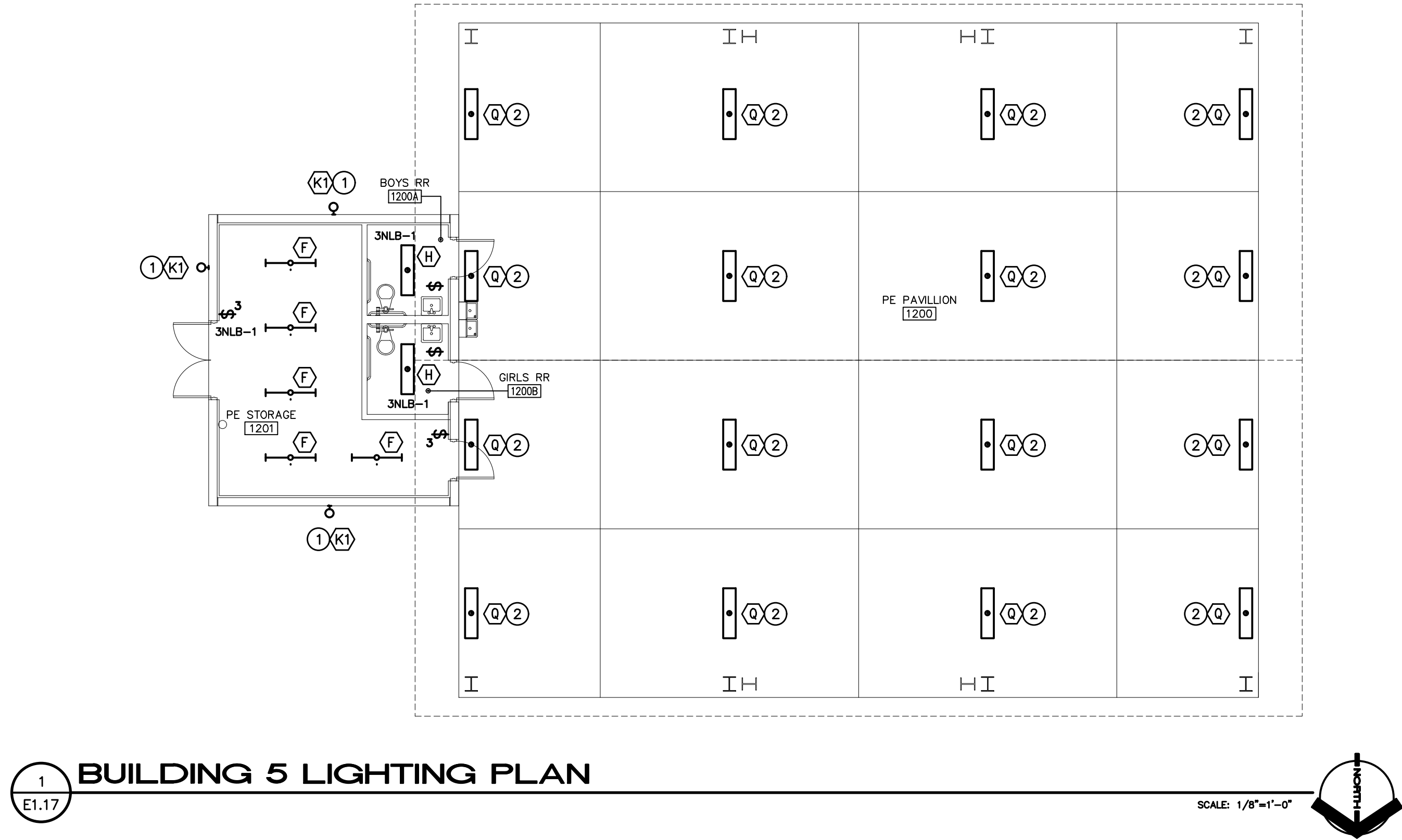
VERIFY WORK AREA OUTLET CONFIGURATION WITH OWNER PRIOR TO ROUGH-IN. SEE SHEET E7.3 FOR DETAILS.

SYSTEM PLAN NOTES

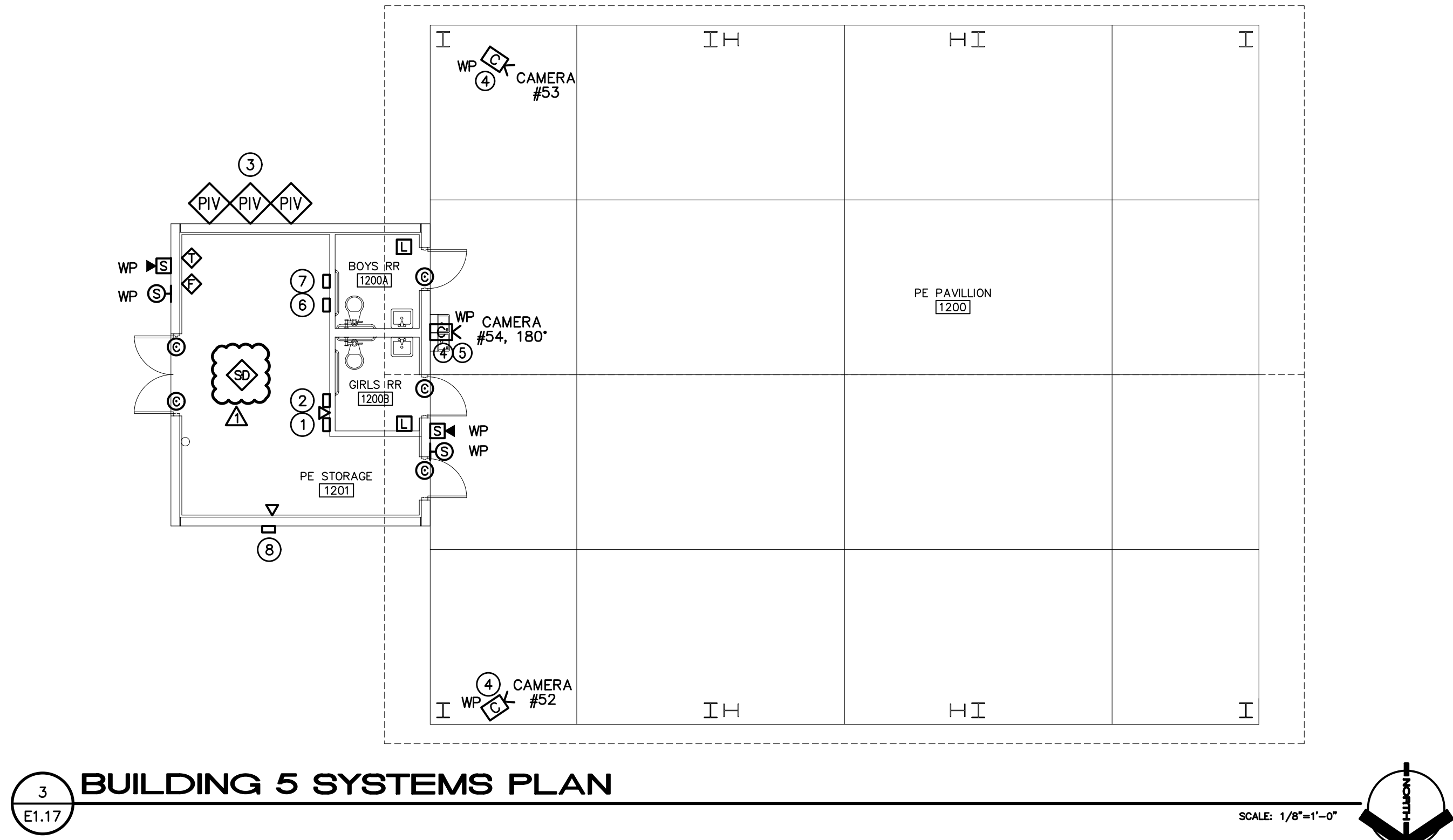
- FIRE ALARM VOICE EVACUATION SPEAKER MOUNTED ABOVE TRUSS BOTTOM ELEVATION. PROVIDE ADDITIONAL STRUCTURAL STEEL AS REQUIRED.
- EMS CONTROL PANEL.
- 2" CONDUIT SLEEVES, QUANTITY AS SHOWN, FOR WIRING FROM ROOM TO CABLETRAY.
- OUTLET FOR WIRELESS ACCESS POINT. MOUNT ON WALL APPROXIMATELY 18'-0" A.F.F. PROVIDE WIRE GUARD OVER OUTLET.
- LOCAL SOUND SYSTEM SPEAKER. LOCAL SOUND SYSTEM LOCATED IN ROOM 811.
- LOCAL SOUND SYSTEM VOLUME OUTLET.
- RACK MOUNTED LOCAL SOUND SYSTEM AND VOLUME CONTROL.
- PROVIDE 1" C. FROM J-BOX TO EACH SCOREBOARD. PROVIDE 1" C. FROM EACH SCOREBOARD TO THE RESPECTIVE SHOT CLOCK.
- DATA OUTLET FOR PROJECTOR. SEE DETAIL 1/E7.3.
- SEE DETAIL 1/E7.3 FOR SYSTEM OUTLETS MEDIA SHELF AND AT THE TEACHER'S STATION. CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL CASEWORK PRIOR TO ROUGH-IN OF ALL DEVICES.
- INTERCOM SPEAKERS.
- BUILDING CLOCK/TRANSMITTER WITH WIRE GUARD.
- SCOREBOARD. COORDINATE FINAL LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- FIRE ALARM RELAY FOR SILENCING LOCAL SOUND SYSTEM UPON ALARM CONDITION.
- SYSTEMS WIRING ROUTED THROUGH GYM SHALL BE INSTALLED IN CONDUIT.
- 2-3" CONDUIT SLEEVES.
- FIRE ALARM CONTROL PANEL AND TERMINAL CABINET.
- FIRE ALARM SYSTEM (SECONDARY MAIN) CONTROL PANEL.
- EXTEND CABLING INTO GYM (FOR MICROPHONE AND ASSISTED LISTENING SYSTEMS) FROM ASSOCIATED RACK.
- NFPA REQUIREMENTS STATE THAT SAMPLING TUBES MUST EXTEND AT LEAST TWO-THIRDS OF THE WAY INTO THE DUCT AND THOSE THAT ARE GREATER THAN 36 INCHES LONG MUST BE SUPPORTED AT BOTH ENDS. TO MEET THIS REQUIREMENT, DRILL A HOLE ON THE OPPOSITE SIDE OF THE DUCT. EXTEND THE SAMPLING TUBE THROUGH THE HOLE. CUT OFF THE EXCESS SAMPLING TUBE AND SEAL THE OPENING AROUND THE TUBE WITH AN APPROVED SEALANT.
- INTRUSION DETECTION CONTROL PANEL AND TERMINAL CABINET.
- FLOOR MOUNTED I.T. DATA RACK.
- VERIFY MOUNTING HEIGHT AND LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- FLUSH MOUNTED GENERATOR REMOTE ANNUNCIATOR FOR PERMANENT STAND-BY GENERATOR AND MOBILE GENERATOR.
- 3/4"x8"x4" CLASS A/C FLAME-SPREAD CLASS A PLYWOOD BACKBOARD. PAINTED ON BOTH SIDES AND ALL EDGES WITH GRAY, FIRE RESISTANT PAINT. APPLY ALL AROUND ROOM PERIMETER.

Revisions		
No.	Date	Note
1	11/16/22	ADDENDUM 1

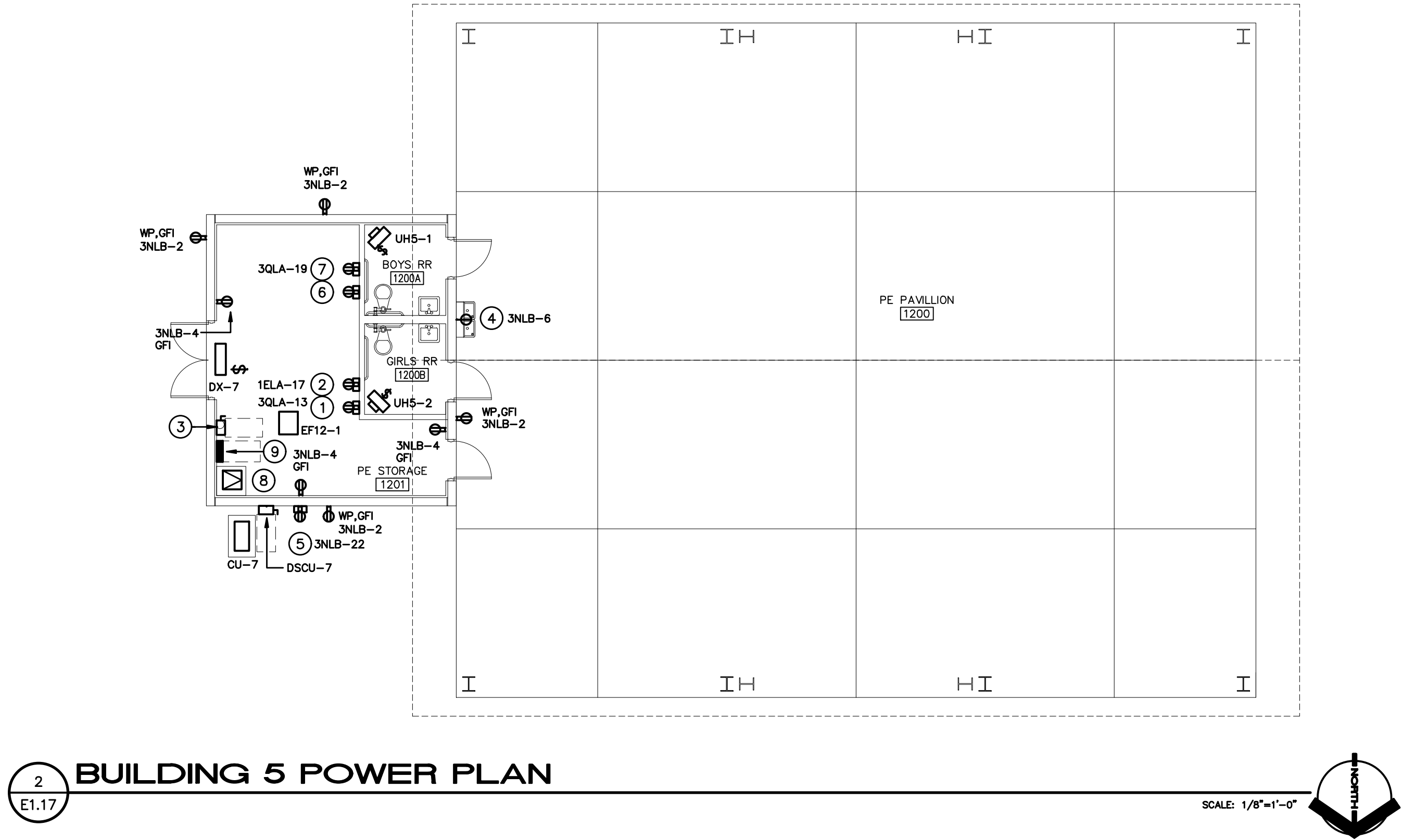
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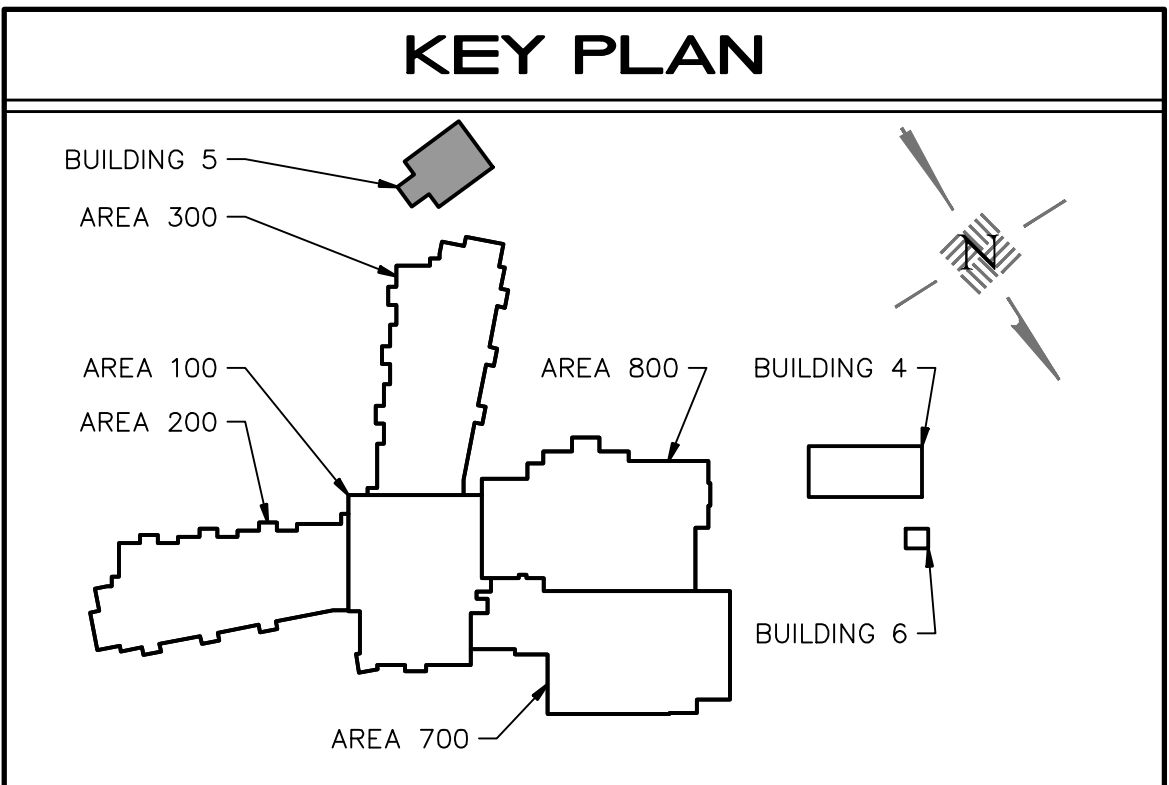
- LIGHTING PLAN NOTES**
1. CONNECT EXTERIOR LIGHTING TO CIRCUIT '3NLB-3' VIA CONTACTOR 'CT-4B'. COORDINATE WITH ARCHITECTURAL FEATURES AND DOWNSPOUTS PRIOR TO ROUGH-IN.
 2. CONNECT PAVILLION LIGHTING TO CIRCUIT '3NLB-5' VIA CONTACTOR 'CT-4B'.



- SYSTEM PLAN NOTES**
1. EMS CONTROL PANEL.
 2. FIRE ALARM CONTROL PANEL.
 3. COORDINATE EXACT LOCATION OF PIV DEVICES WITH CIVIL PRIOR TO BID.
 4. VERIFY MOUNTING HEIGHT AND LOCATION WITH OWNER PRIOR TO ROUGH-IN.
 5. PROVIDE WALL MOUNTED CAMERA CENTERED ON WALL MOUNTED 9'-11" ABOVE SLAB.
 6. INTRUSION DETECTION TERMINAL CABINET.
 7. IT DATA TERMINAL CABINET.
 8. IRRIGATION CONTROLS. VERIFY EXACT LOCATION WITH IRRIGATION CONTRACTOR PRIOR TO ROUGH-IN.



- POWER PLAN NOTES**
1. EMS CONTROL PANEL. CONNECT TO CIRCUIT INDICATED.
 2. FIRE ALARM TERMINAL CABINET. CONNECT TO CIRCUIT INDICATED.
 3. DISCONNECT 'DS-3NTB'.
 4. LOCATE RECEPTACLE WITHIN DRINKING FOUNTAIN ENCLOSURE. COORDINATE LOCATION WITH DIVISION 22 PRIOR TO ROUGH-IN.
 5. IRRIGATION CONTROLS. VERIFY EXACT LOCATION WITH IRRIGATION CONTRACTOR PRIOR TO ROUGH-IN. CONNECT TO CIRCUIT INDICATED.
 6. INTRUSION DETECTION TERMINAL CABINET. CONNECT TO CIRCUIT INDICATED.
 7. I.T. TERMINAL CABINET. CONNECT TO CIRCUIT INDICATED.
 8. TRANSFORMER '3NTB'.
 9. PANEL '3NLB'.



Comm. No: 22046.00		
Date: 10-21-22		
Drawn: JJP		
Revisions		
No.	Date	Note
1	11/16/22	ADDENDUM 1

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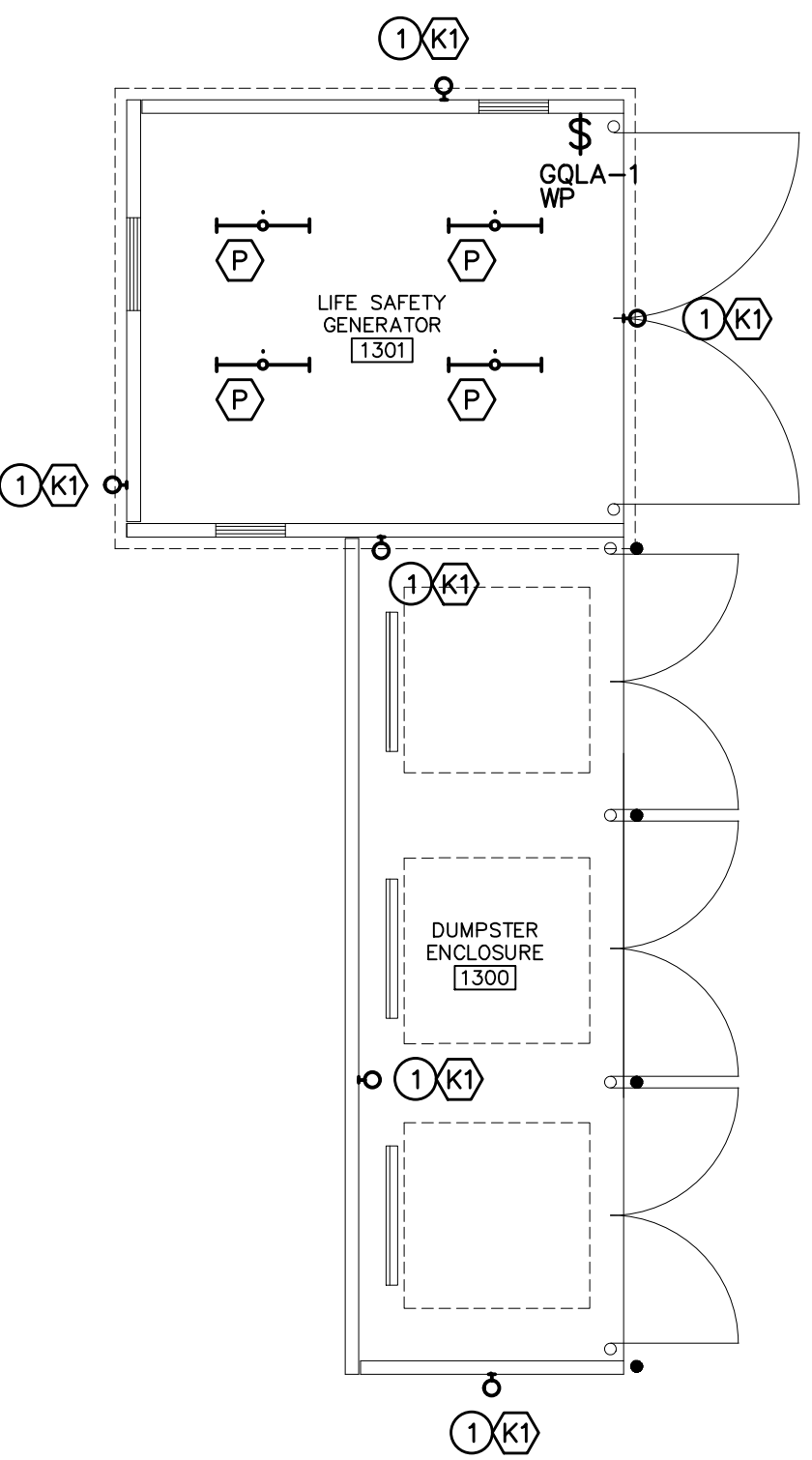
1
E1.18

BUILDING 6 LIGHTING PLAN

SCALE: 1/8"=1'-0"

LIGHTING PLAN NOTES

① CONNECT EXTERIOR LIGHTING TO CIRCUIT 'GQLA-1' VIA CONTACTOR 'CT-49'. COORDINATE WITH ARCHITECTURAL FEATURES AND DOWNSPOUTS PRIOR TO ROUGH-IN.



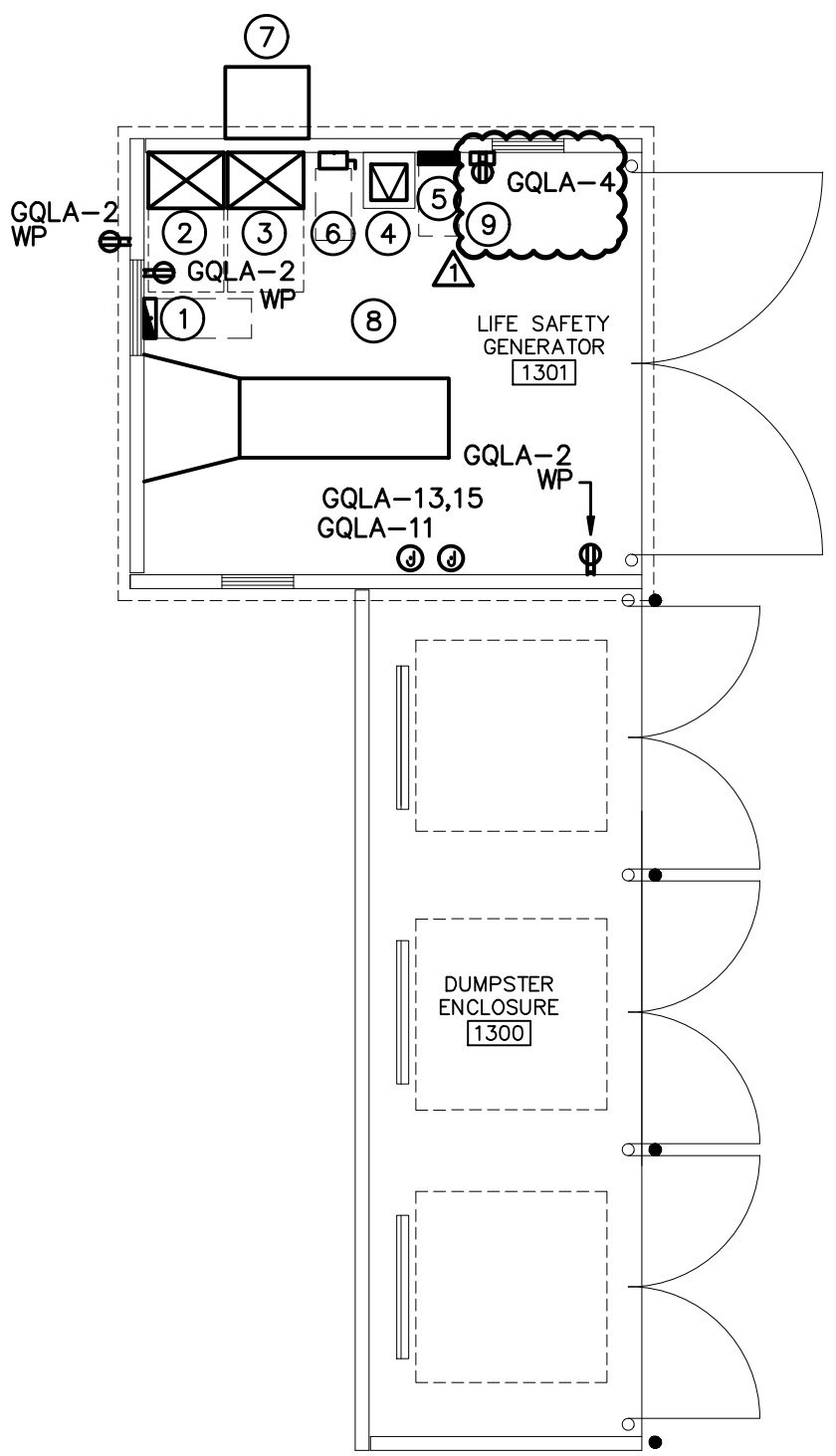
2
E1.18

BUILDING 6 POWER PLAN

SCALE: 1/8"=1'-0"

POWER PLAN NOTES

① PANEL 'GDP'.
② 'ATS-E'.
③ 'ATS-Q'.
④ TRANSFORMER 'GQTA'.
⑤ PANEL 'GQLA'.
⑥ DISCONNECT 'DS-GQTA'.
⑦ QUICK CONNECT BOX FOR PORTABLE GENERATOR REQUIRED PER NEC 700.3F TO REPLACE PERMANENT EMERGENCY GENERATOR POWER IN THE EVENT OF FAILURE / MAINTENANCE. PORTABLE GENERATOR DOES NOT PICK UP ADDITIONAL LOADS AS SEEN AT OTHER SJCSO SCHOOLS (NO EHPA).
⑧ COORDINATE AND VERIFY WITH OWNER EXACT MOUNTING LOCATION OF ALL ELECTRICAL EQUIPMENT IN THIS AREA WITH GENERATOR INSTALLATION CONTRACTOR.
⑨ EMS CONTROL PANEL. CONNECT TO CIRCUIT INDICATED.



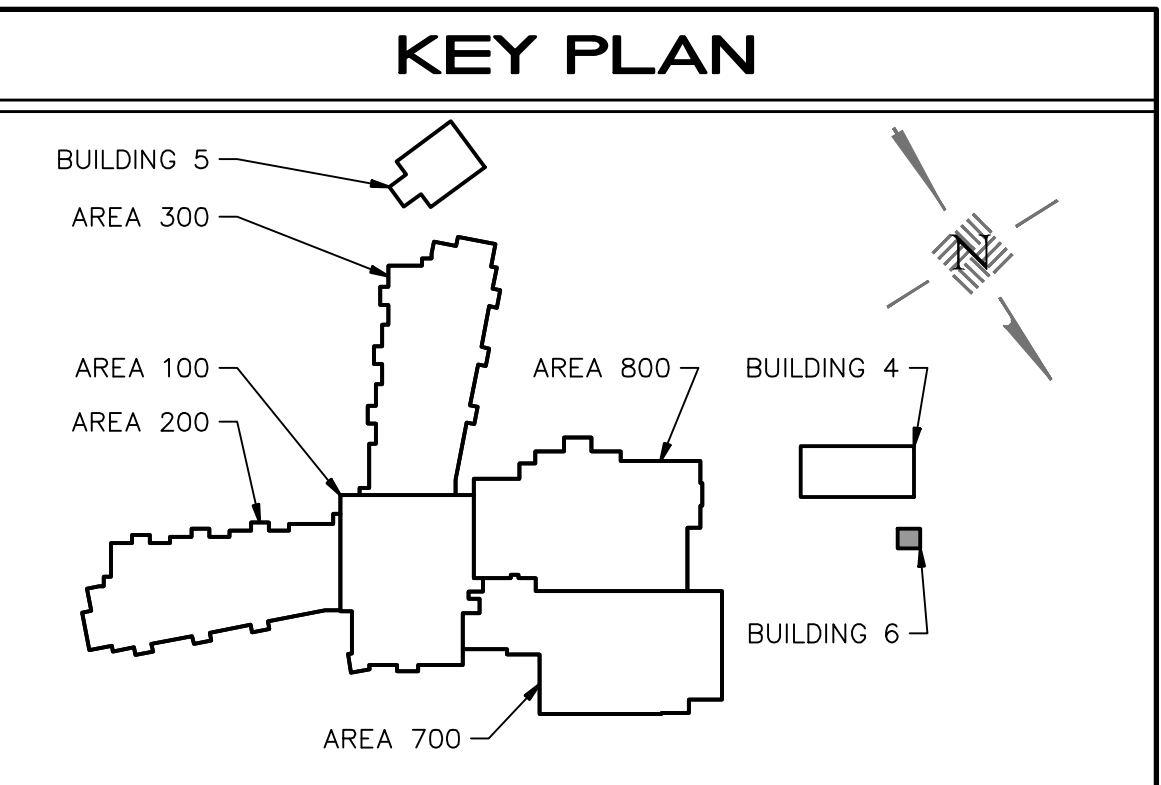
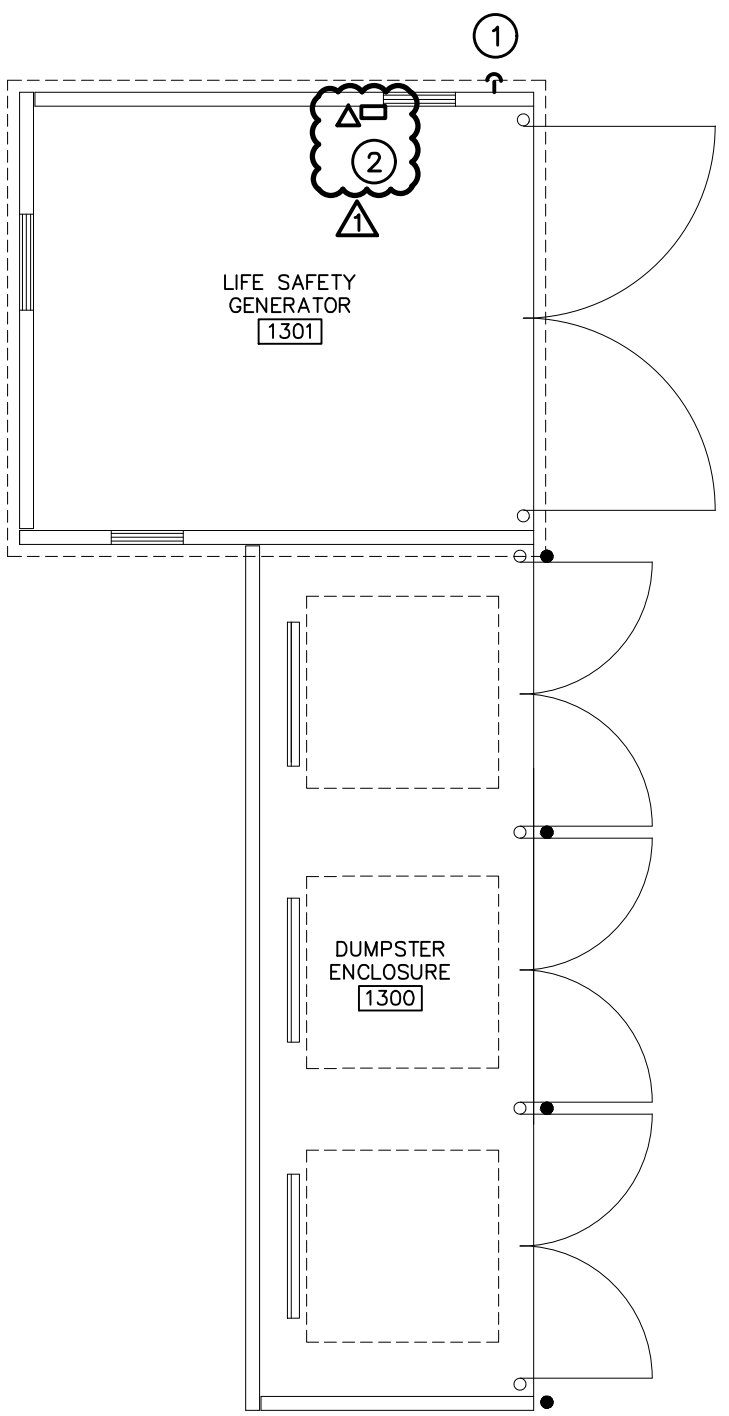
3
E1.18

BUILDING 6 SYSTEMS PLAN

SCALE: 1/8"=1'-0"

SYSTEM PLAN NOTES

① LOCATION OF GENERATOR BREAK--GLASS SWITCH.
② EMS CONTROL PANEL. PROVIDE DATA OUTLET CONNECTED TO NEAREST DATA ROOM.



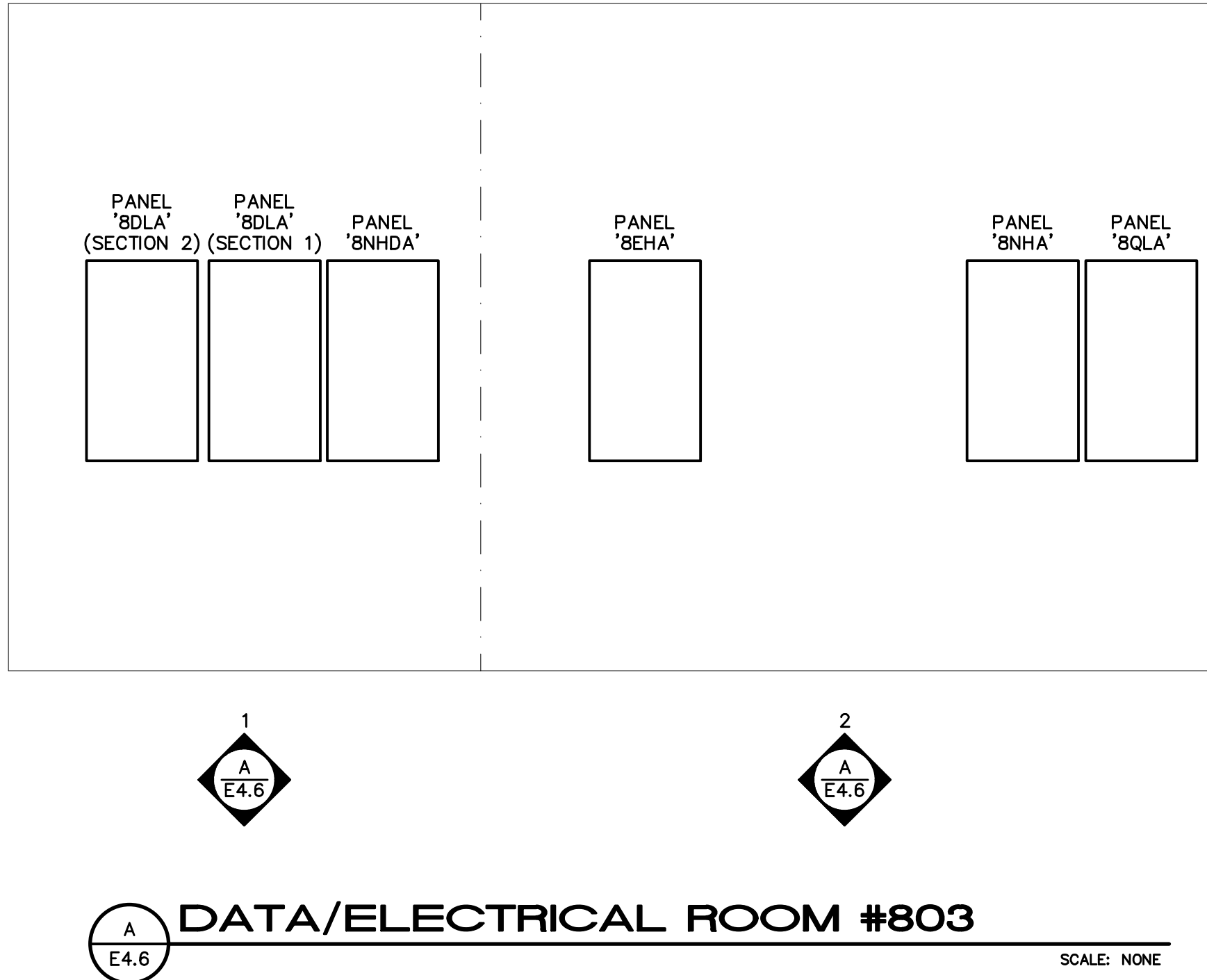
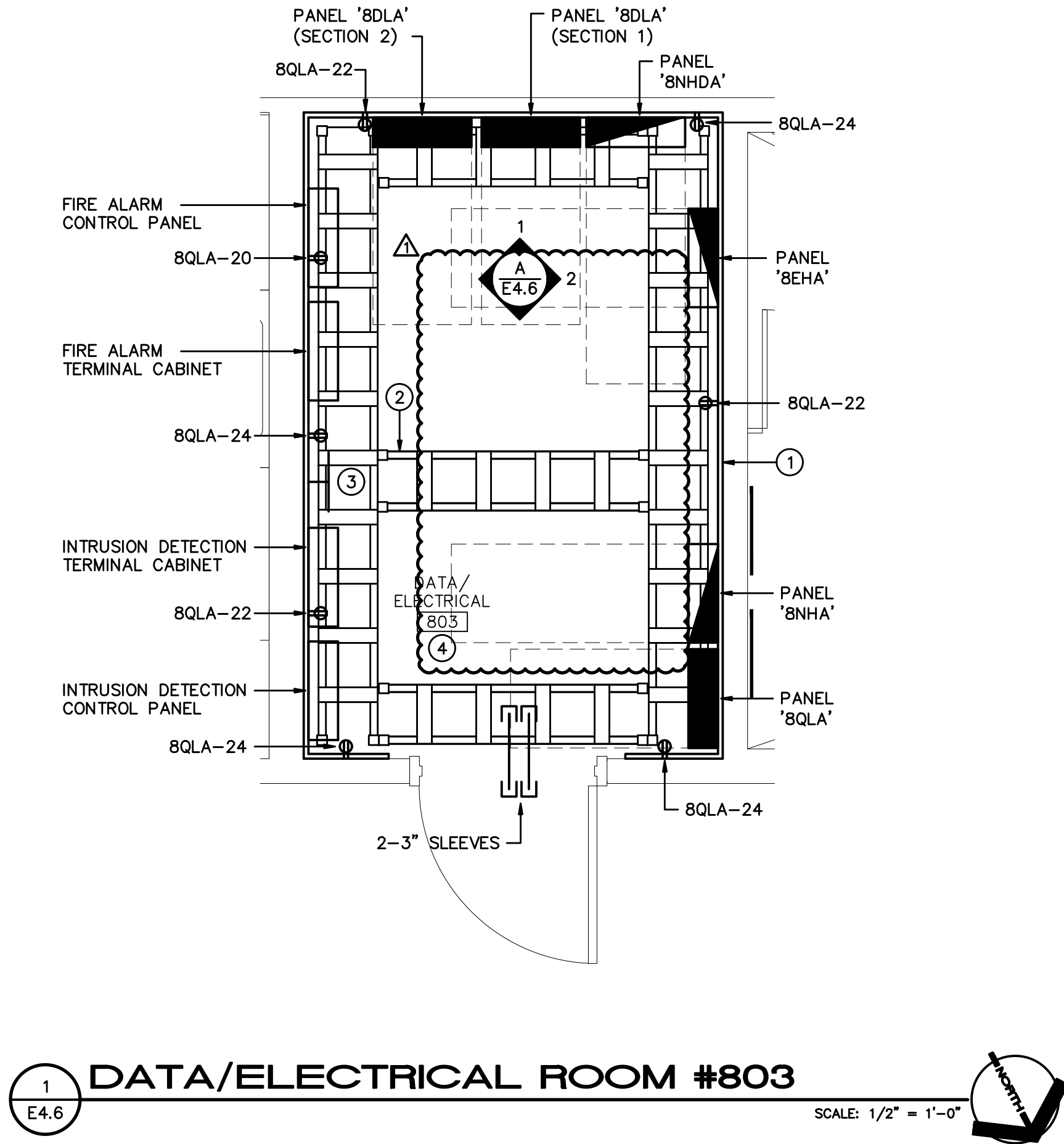
Comm. No: 22046.00		
Date: 10-21-22		
Drawn: JJP		
Revisions		
No.	Date	Note
1	11/16/22	ADDENDUM 1

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Michael P. Gordon, P.E. 56094
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**BUILDING 6
ELECTRICAL
PLANS**

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PLAN NOTES

- 3/4"x8"x4' CLASS A/C FLAME-SPREAD CLASS A PLYWOOD BACKBOARD, PAINTED ON BOTH SIDES AND ALL EDGES WITH GRAY, FIRE RESISTANT PAINT; APPLY ALL AROUND ROOM PERIMETER.
- ELEVATED CABLE TRAY.
- GROUNDING BUS BAR ON STAND-OFF INSULATORS. REFER TO DETAILS.
- SEE POWER PLANS FOR CONTROL PANEL AND TERMINAL CABINET CIRCUIT NUMBERS.

THESE PROPOSED ELECTRICAL ROOM LAYOUTS HAVE BEEN BASED ON SQUARE-D EQUIPMENT DIMENSION DATA AVAILABLE AT TIME OF DESIGN. THE CONTRACTOR SHALL VERIFY THAT SUPPLIED EQUIPMENT WILL FIT IN SPACE ALLOTTED AND MEET ALL CLEARANCES AND WORK SPACE REQUIREMENTS. ANY DEVIATIONS FROM THESE ROOM LAYOUTS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

K-8 SCHOOL "OO"
ST. JOHNS COUNTY SCHOOL DISTRICT - BID # 2022-50
1455 TWIN CREEKS DRIVE,
ST. AUGUSTINE, FLORIDA 32095

Comm. No: 22046.00
Date: 10-21-22
Drawn: JJP

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AREA 800 ENLARGED
ELECTRICAL AND
DATA ROOM

E4.6

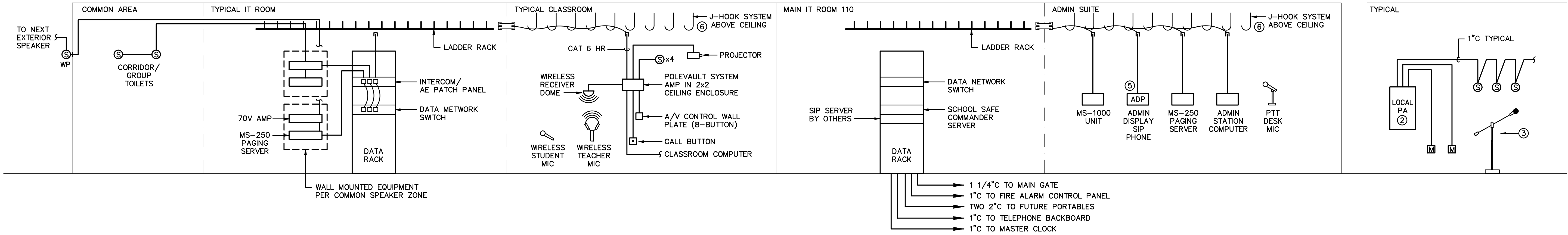
JLRD No. 198108

J L
R D
JOHNSON, LEVINSON
RAGAN, DAYILA, INC.
CONSULTING ENGINEERS
1450 Centrepark Boulevard, Suite 300
West Palm Beach, Florida 33411
(561) 889-2283 (561) 889-2392 Fax

HARVARD JOLLY
ARCHITECTURE
2047 Vista Parkway, Suite 100 West Palm Beach, FL 33411 | 561-1478-4457 | www.HarvardJolly.com | AR0013140

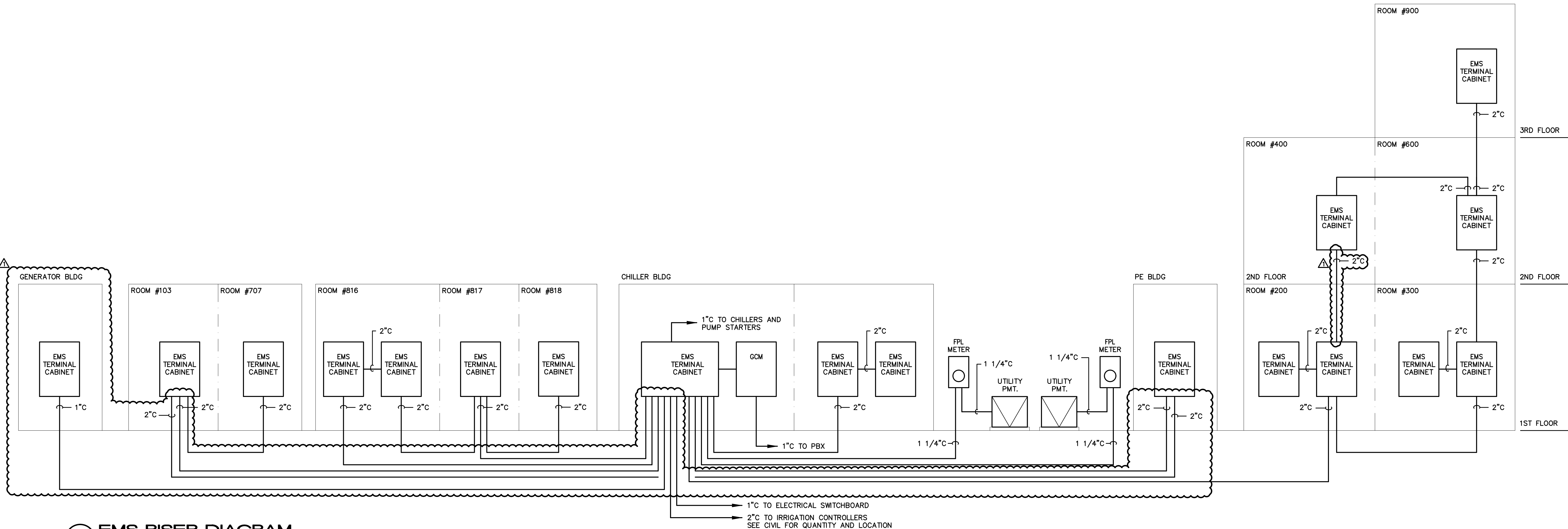
INTERCOM SYSTEM GENERAL NOTES

1. INTERCOM SYSTEM INSTALLATION SHALL COMPLY WITH THE DISTRICT MASTER SPECIFICATIONS SECTION 27 51 16.
2. INTERCOM CALL BUTTONS SHALL HAVE INTEGRAL VOLUME CONTROL DEVICES IN ALL ADMINISTRATIVE SPACES (NOT CLASSROOMS) AND SHALL BE LOCATED NEXT TO THE LIGHT SWITCHES.
3. THE INTERCOM SYSTEM SHALL PERMIT USER SELECTION OF 4 AND 5 DIGIT DIALING.
4. INTERCOM CONDUCTORS AND CABLES, REGARDLESS OF VOLTAGE, SHALL BE INSTALLED IN A COMPLETE RACEWAY SYSTEM. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SIZE INTERCOM SYSTEM CONDUITS FOR REQUIRED CABLES INCLUDING SPARE CABLES.
5. PROVIDE COMPLETE INTERCOM RACK WITH ALL CARD CAGES/POWER SUPPLY WITH UPS FOR FULL CAPACITY OF THE SYSTEM SPECIFIED. PROVIDE REQUIRED STATION AND ANALOG CARDS NEEDED NOW PLUS 20% SPARES.
6. INTERCOM SYSTEM SHOP DRAWINGS INCLUDING THE CUT SHEETS OF EQUIPMENT AND DEVICES SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT. THIS COMMENT WILL BE SATISFIED AFTER THE SHOP DRAWINGS AND CUT SHEETS ARE RECEIVED.
7. PROVIDE A MINIMUM OF TWO 2" CONDUITS WITH PULL WIRE FROM INTERCOM CONSOLE TO PULL BOX LOCATED AT THE SITE FOR FUTURE PORTABLES. VERIFY THE BEST LOCATION FOR THIS PULL BOX WITH THE SCHOOL DISTRICT REPRESENTATIVE IN CHARGE OF THE PROJECT.



INTERCOM RISER DIAGRAM

SCALE: NONE



EMS RISER DIAGRAM

SCALE: NONE

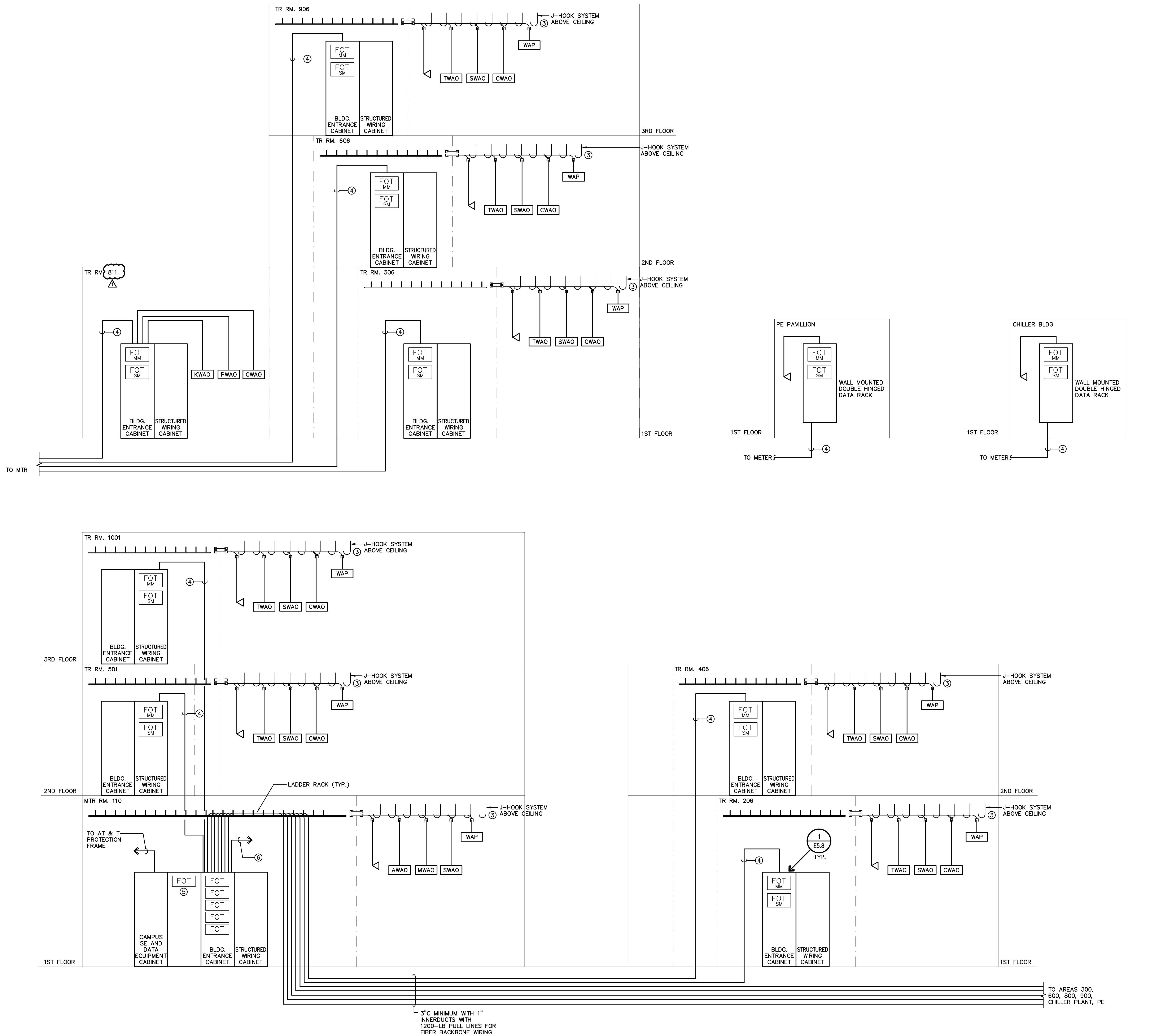
RISER DIAGRAM NOTES

1. RISER DIAGRAMS ARE PROVIDED FOR REFERENCE ONLY. THE CONTRACTOR SHALL SUBMIT DETAILED WIRING AND CONDUIT LAYOUTS SHOWING CONDUIT ROUTING, SIZES AND QUANTITY OF CONDUCTORS.
2. BOGEN WALL TYPE AMPLIFIER WITH FOUR 'MM-5' MODULES, (3 MIC, 1-OVERRIDE.) ONE 'AT20C' COUPLES AND ONE 'LOS' INPUT. PROVIDE F/A INTERFACE RELAY FOR SHUTDOWN OF LOCAL P.A. UPON ALARM CONDITION.
3. PROVIDE ONE RAULAND 'MS1282' MICROPHONE WITH ONE 'MS12' MICROPHONE STAND.
4. FURNISH A SEPARATE CONTINUOUS CABLE FOR EACH PAGING STATION. SPLICES WILL NOT BE PERMITTED IN J-BOXES ABOVE CEILING. CONTRACTOR SHALL SIZE ALL PAGING CONDUITS AS REQUIRED FOR CABLE QUANTITIES.
5. TYPICAL ADMINISTRATIVE DISPLAY PHONE, SEE FLOOR PLAN FOR LOCATIONS.
6. PROVIDE AND INSTALL J-HOOK SYSTEM ABOVE CEILING.

Revisions	
No.	Date
1	11/16/22
ADDENDUM 1	

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DATA RISER DIAGRAM AND DETAILS 1



GENERAL NOTE

1. SEE DETAIL SHEETS FOR ADDITIONAL INFORMATION OF WORK AREA OUTLETS.

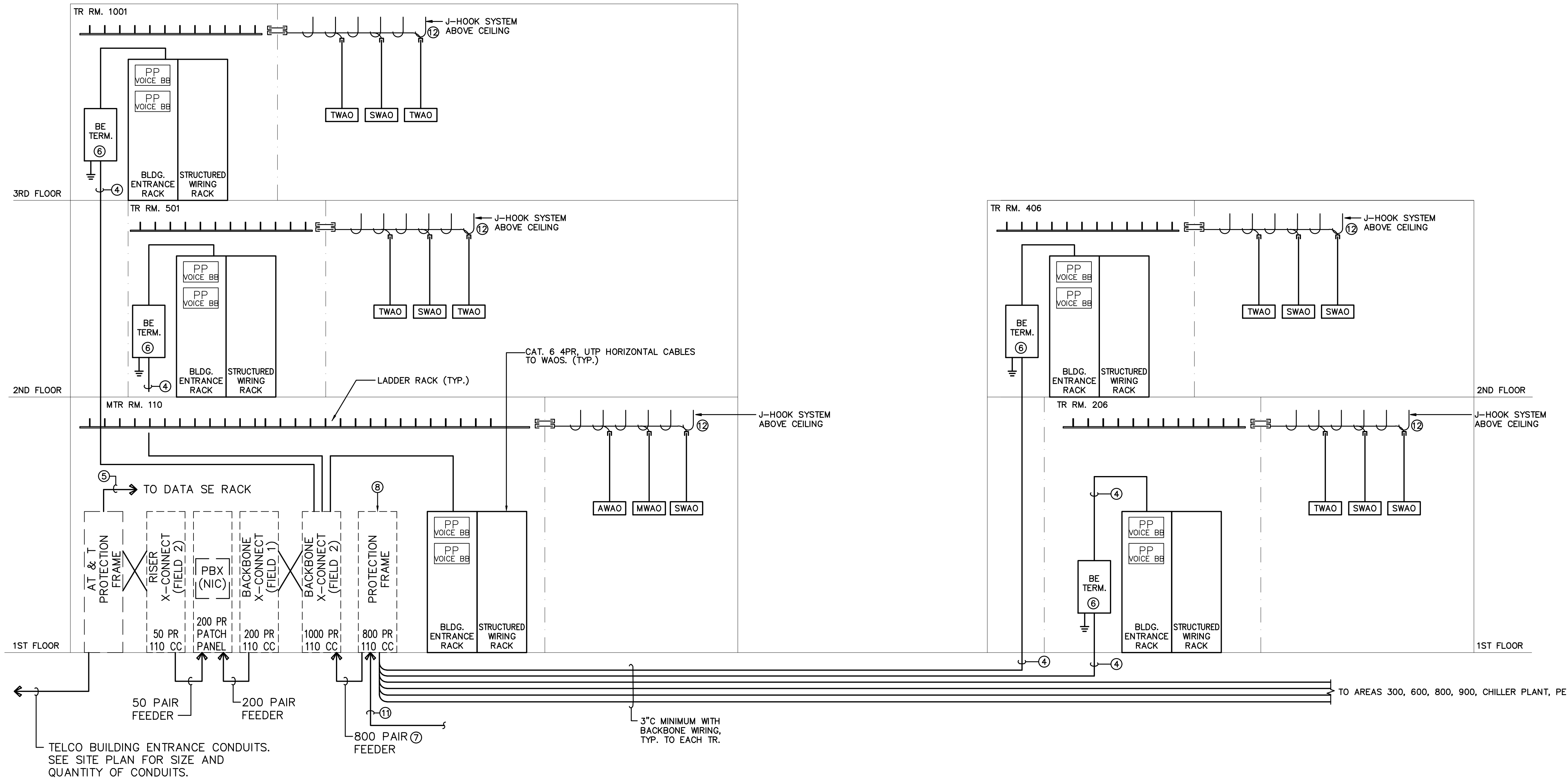
RISER DIAGRAM NOTES

- RISER DIAGRAMS ARE PROVIDED FOR REFERENCE ONLY. THE CONTRACTOR SHALL SUBMIT DETAILED WIRING AND CONDUIT LAYOUTS SHOWING CONDUIT ROUTING, SIZES AND QUANTITY OF CONDUCTORS.
- 300' MAXIMUM CONDUIT RUN. PROVIDE PULL BOX AS REQUIRED FOR RUNS OVER 300'. VERIFY LOCATION WITH OWNER.
- PROVIDE AND INSTALL J-HOOK SYSTEM ABOVE CEILING.
- FIBER-OPTIC BACKBONE FROM MTR TO EACH TR; 24 STRAND MULTIMODE CABLE AND 12 STRAND SINGLE MODE CABLE, IN INNER DUCT.
- COORDINATE QUANTITY OF INCOMING FIBER SERVICE AND FOT UNITS AS REQUIRED.

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1
E5.11

VOICE RISER DIAGRAM AND DETAILS ①②



SCALE: NONE

GENERAL NOTES

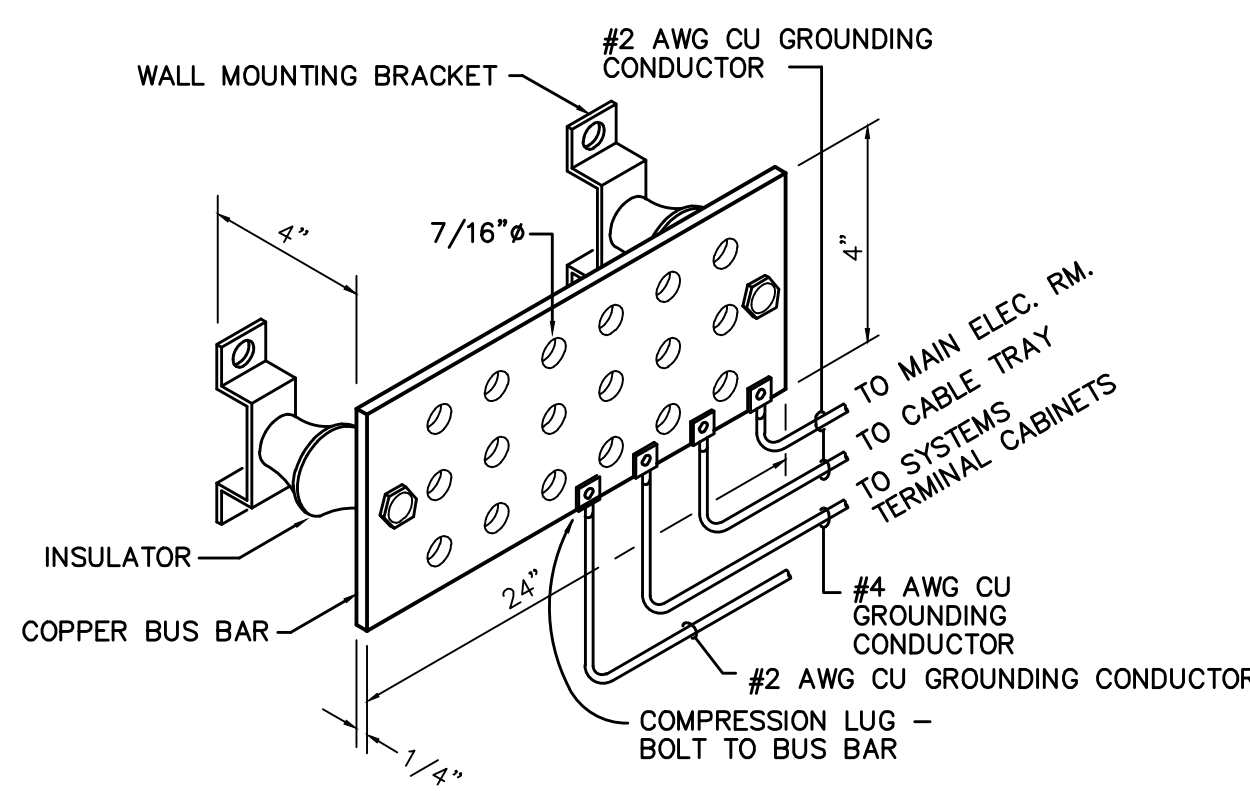
- THE TOTAL CAPACITY OF PBX SWITCHED PAIRS SHALL BE EXTENDED FROM THE BACKBONE TO THE PBX X-CONNECT. CONFIRM EXACT QUANTITY OF SWITCHED PAIRS AND METHOD OF CONNECTION TO THE PBX.
- FOR VOICE CROSS CONNECTS (X-CONNECTS) AND RISER BLOCK CROSS CONNECT DETAILS, SEE 4
E5.12

RISER DIAGRAM NOTES

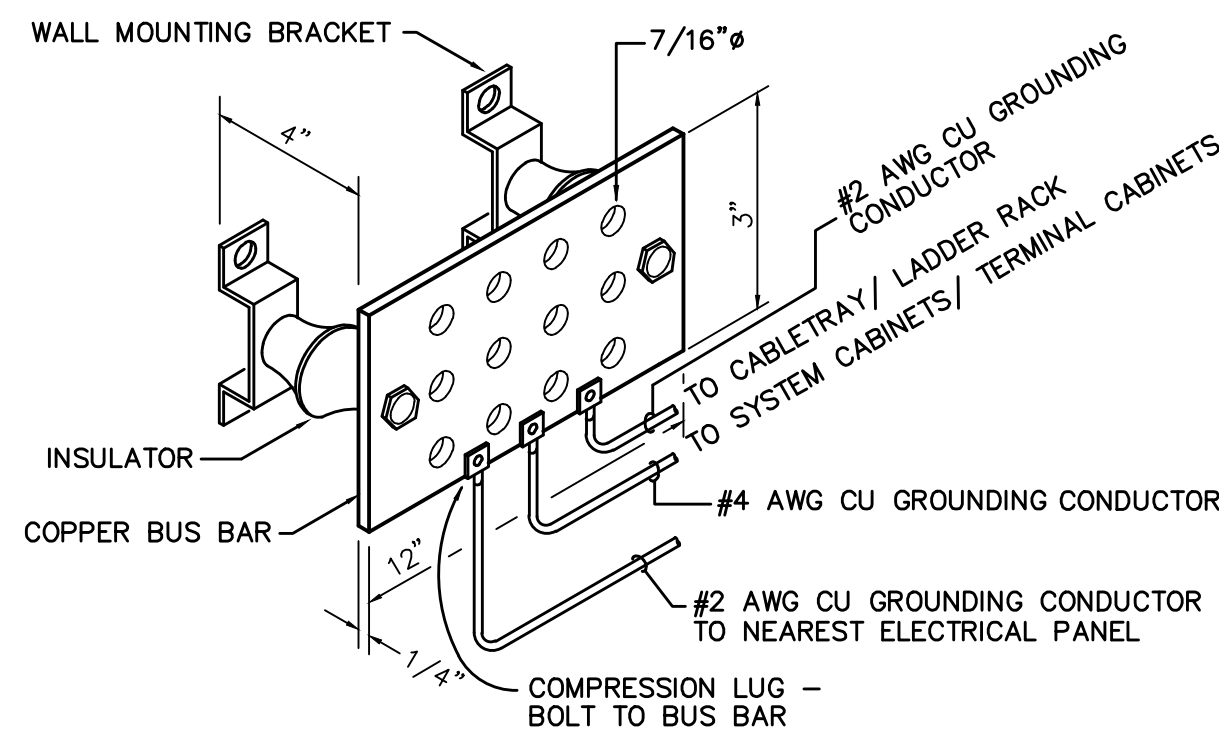
- RISER DIAGRAMS ARE PROVIDED FOR REFERENCE ONLY. THE CONTRACTOR SHALL SUBMIT DETAILED WIRING AND CONDUIT LAYOUTS SHOWING CONDUIT ROUTING, SIZES AND QUANTITY OF CONDUCTORS.
- 300' MAXIMUM CONDUIT RUN. PROVIDE PULL BOX AS REQUIRED FOR RUNS OVER 300'. VERIFY LOCATION WITH OWNER.
- TERMINATE CONDUITS 10' MINIMUM FROM BUILDING AND IDENTIFY TERMINUS WITH CONCRETE MARKER BEARING "FUTURE PORTABLE SYSTEMS".
- 25 PAIR MINIMUM BACKBONE FROM MTR TO EACH TR; MULTICONDUCTORS GEL-FILLED.
- COORDINATE QUANTITY OF INCOMING FIBER SERVICE AND FOT UNITS AS REQUIRED.
- BUILDING ENTRANCE SURGE TERMINAL, EQUAL TO PORTA SERIES 24. CONNECT TO BUILDING'S GROUND GRID.
- (8)-25 PAIR CAT 5 CABLES. (1 VOICE PER PORT).
- 7"-8" HIGH PROTECTION FRAME WITH 100 PR CONNECTORS AND FAIL SAFE MODULES WITH TAILS (LENGTH TO BE FIELD VERIFIED). FRAME SHALL SERVE FOR TERMINATION OF COPPER OSP. PROVIDE PROTECTION FOR 800 PAIR EACH FRAME. SEE 6
E5.12
- VOICE PATCH CABINET WITH 48 PORT. 568A PATCH PANELS. ONLY 1 PAIR OF EACH PORT ARE TERMINATED FOR CONNECTIVITY TO THE RISER BACKBOARD.
- 25 PAIR MULTICONDUCTOR, GEL-FILLED, CABLE BACKBONE FROM MTR TO ELECT. RM.
- OTHER SYSTEM CONDUITS AS FOLLOWS:
 - 1" TO FIRE ALARM
 - 1" TO PAGING
 - 1" TO EMS
 - 2" TO FUTURE PORTABLES
 - 1" TO CCTV RACK
 - 1" TO SECURITY/ACS PANEL
- PROVIDE AND INSTALL J-HOOK SYSTEM ABOVE CEILING.

Revisions		
No.	Date	Note
1	11/16/22	ADDENDUM 1

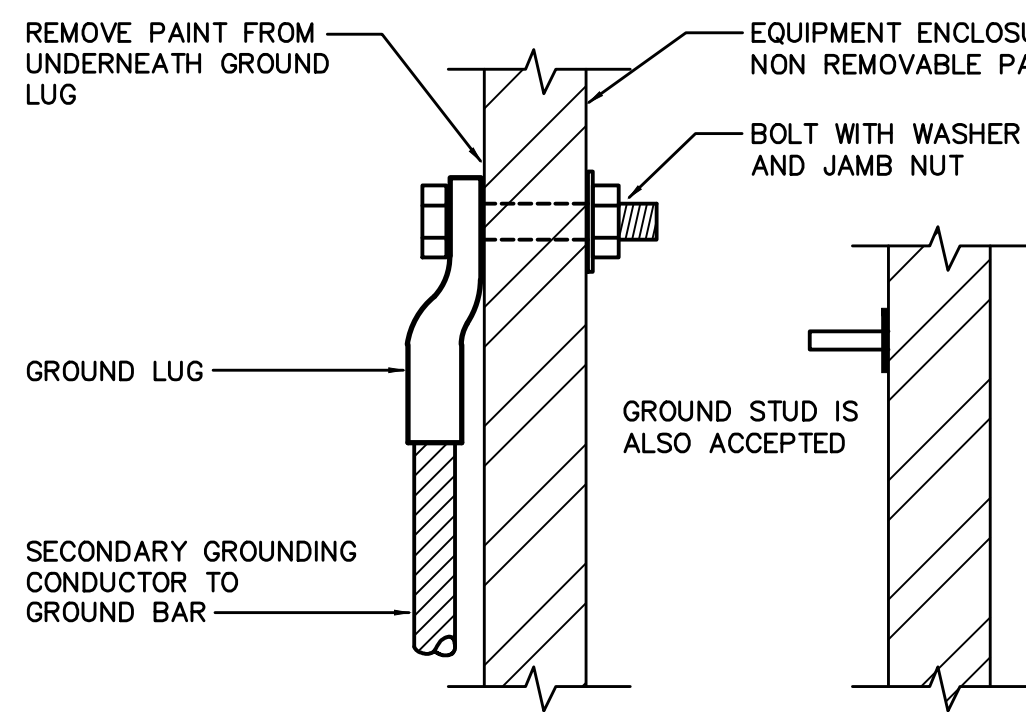
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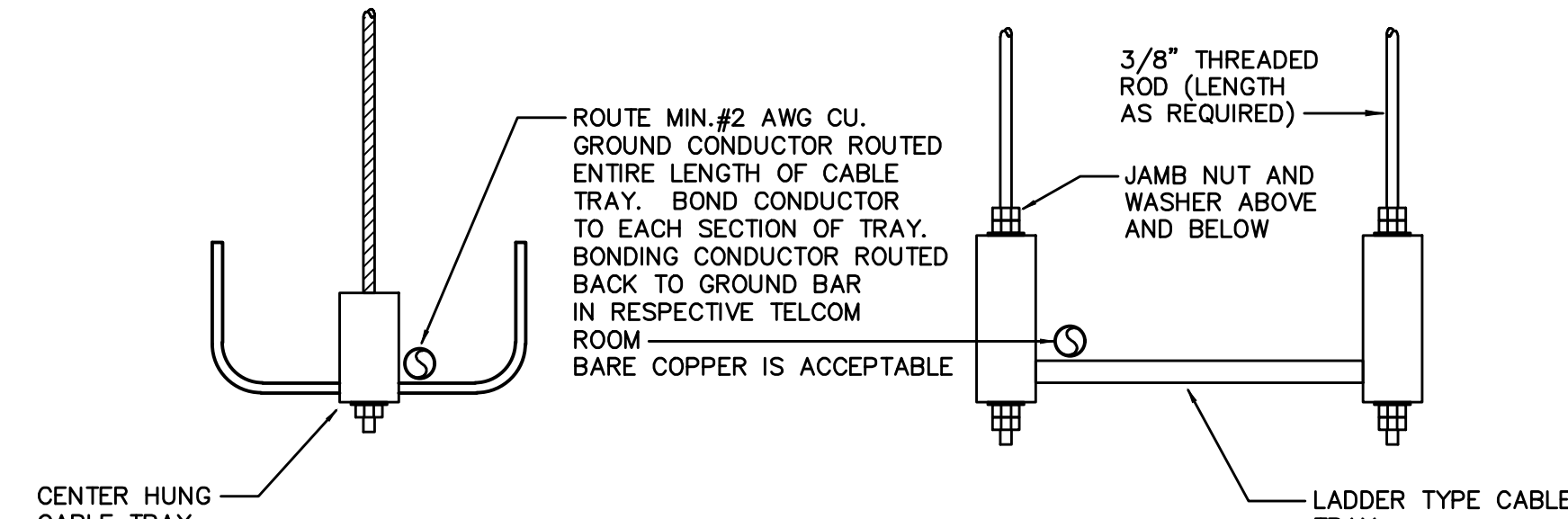
1 TELECOM BUS BAR DETAIL-TYPE 'A' SCALE: NONE



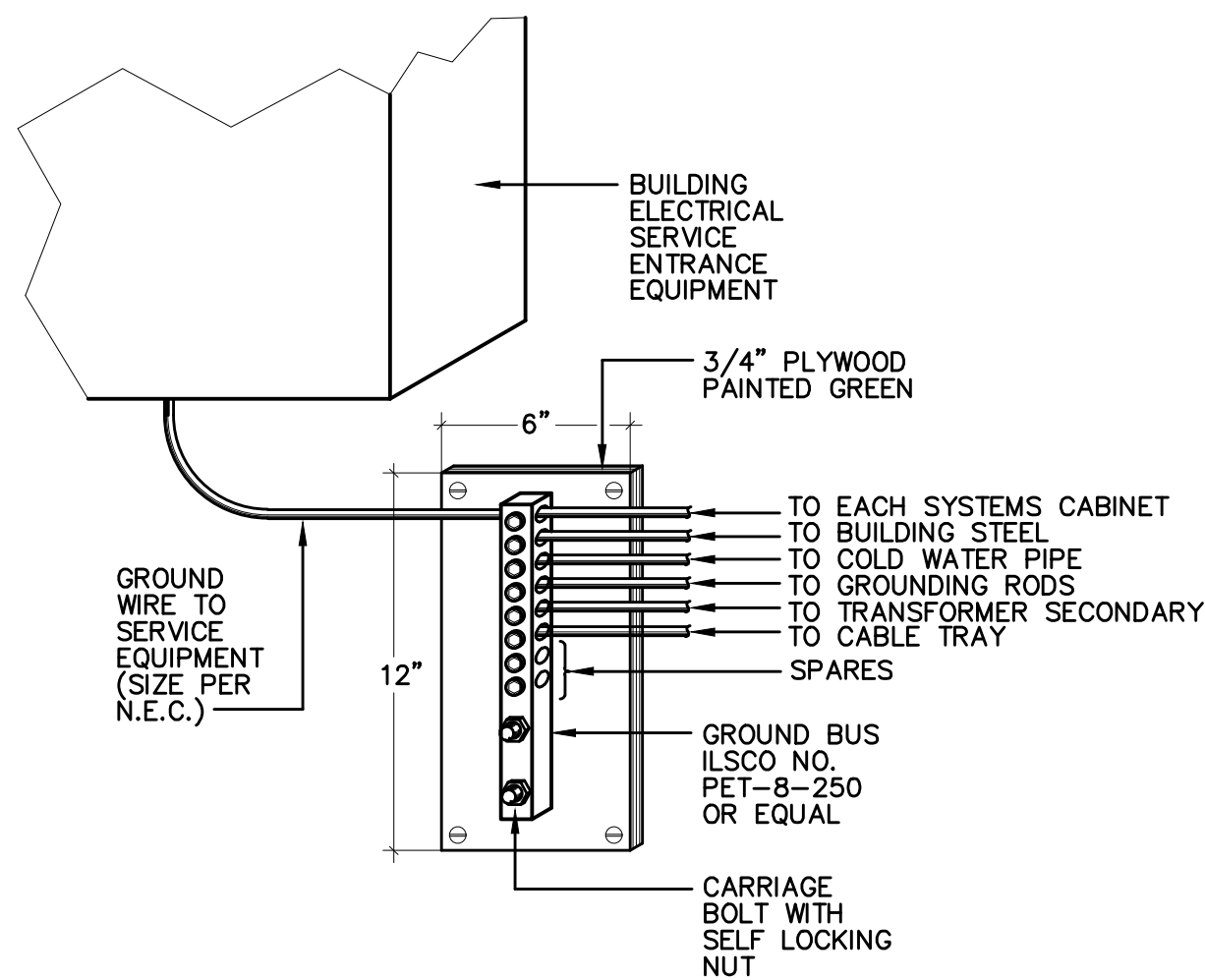
2 GROUND BAR DETAIL - TYPE 'B' SCALE: NONE



3 EQUIPMENT ENCLOSURE BONDING DETAIL SCALE: NONE



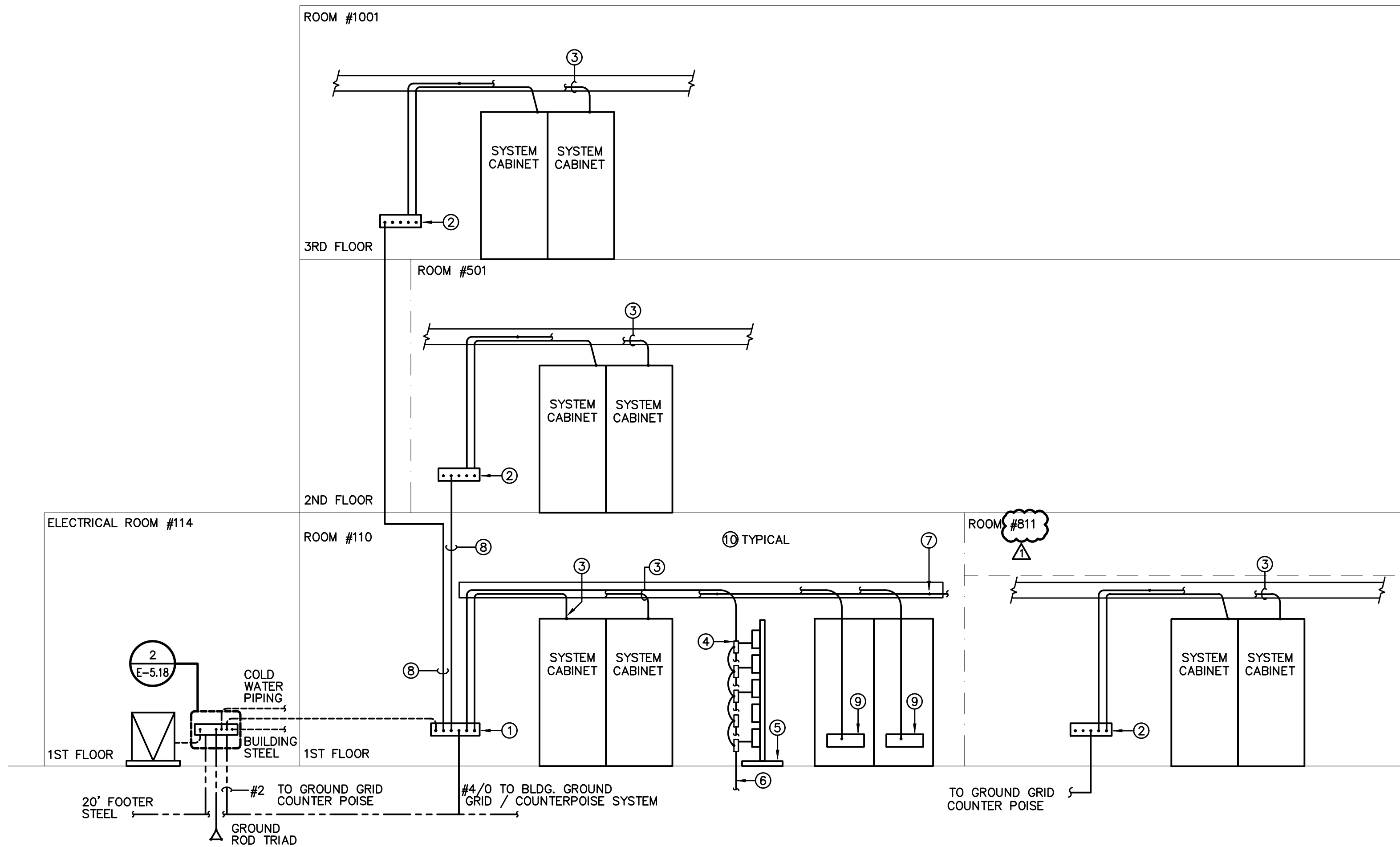
4 CABLE TRAY BONDING DETAIL SCALE: NONE



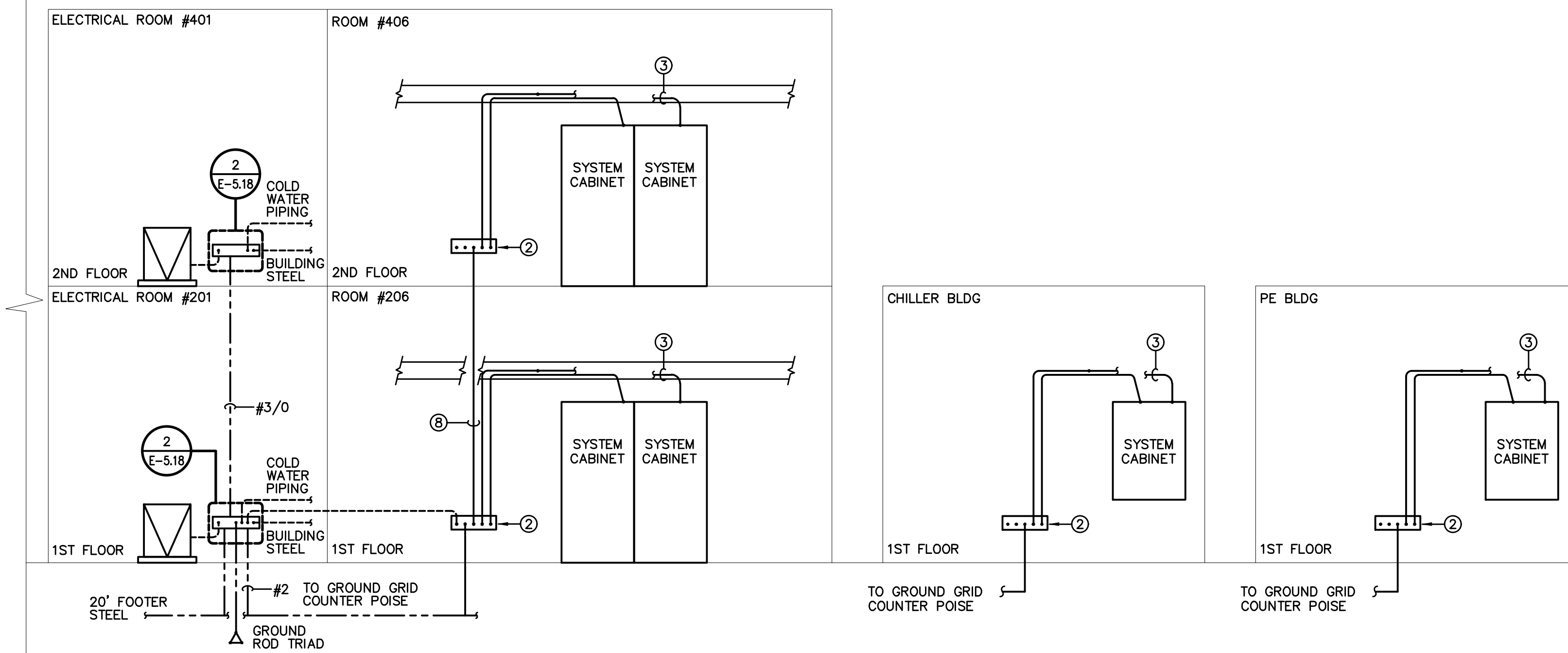
5 ELECTRICAL ROOM GROUND BUS DETAIL SCALE: NONE

GROUND BUS NOTES:

- GROUNDING ELECTRODE CONDUCTOR SHALL BE CONTINUOUS AND UNSPLICED.
- GROUNDING ELECTRODE CONDUCTOR CONNECTION TO COLD WATER MAIN SHALL BE MADE WITHIN 5 FEET OF THE LINE'S ENTRANCE INTO THE BUILDING.



6 TELECOMMUNICATIONS GROUNDING RISER DIAGRAM PART 1 SCALE: NONE

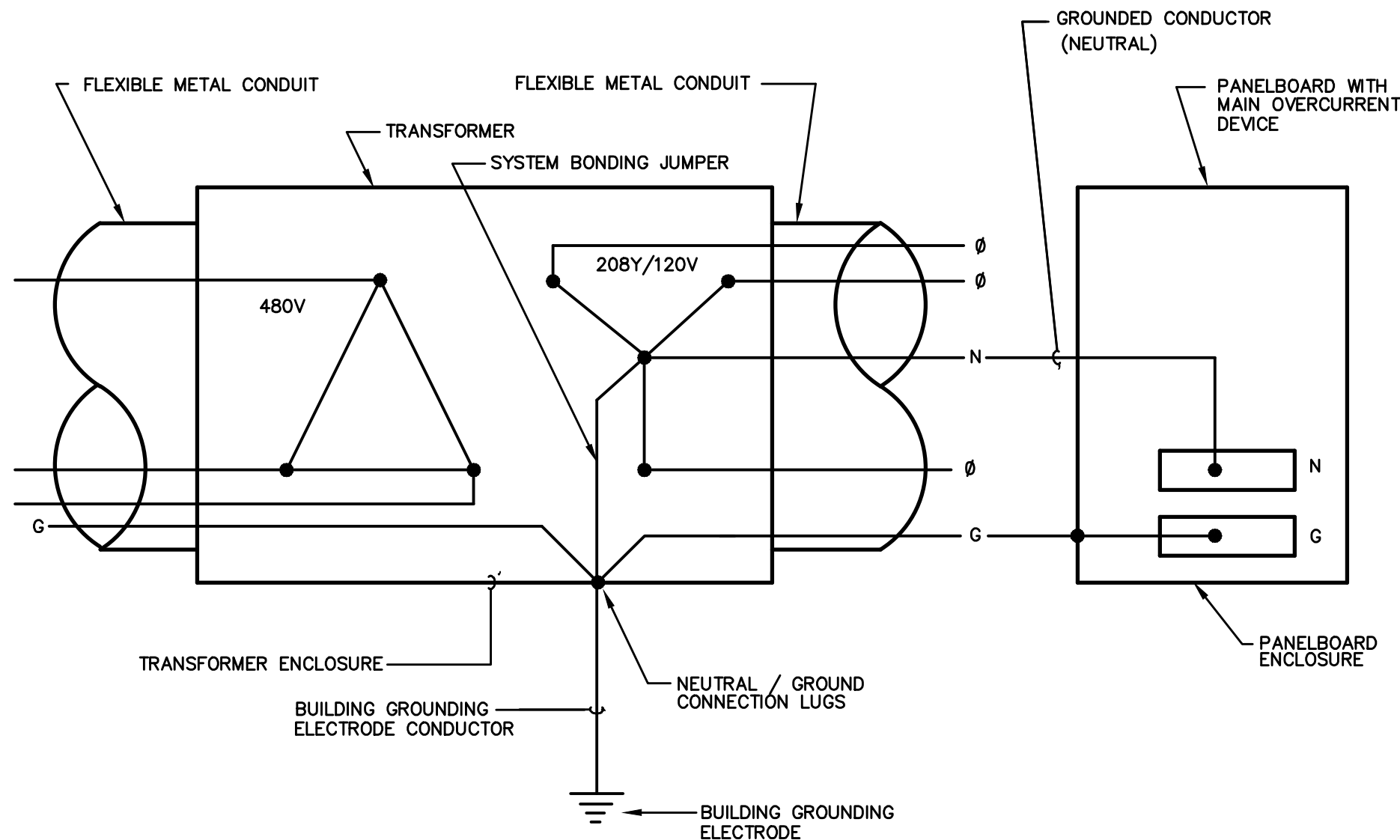


7 TELECOMMUNICATIONS GROUNDING RISER DIAGRAM PART 2 SCALE: NONE

RISER DIAGRAM NOTES

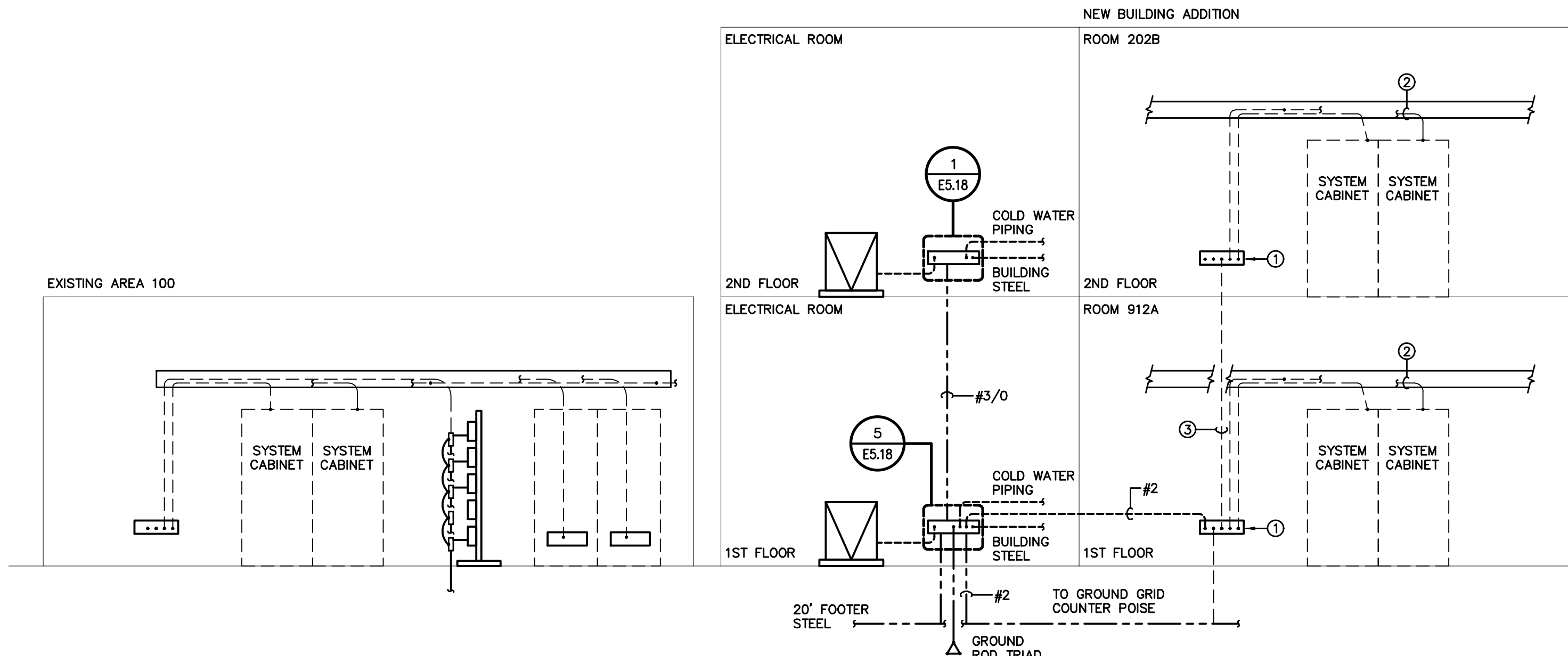
- GROUND BAR - TYPE 'A'. SEE DETAIL 1/E5.18. ALL GROUNDING CONDUCTORS FOR TELECOMMUNICATIONS EQUIPMENT SHALL BE BONDED AT THIS POINT.
- GROUND BAR - TYPE 'B' TO BE MOUNTED WITHIN SYSTEMS CABINET FRAME. COORDINATE EXACT LOCATION WITH RACK MOUNTED EQUIPMENT AND CABLING. SEE DETAIL 2/E5.18.
- BOND SYSTEMS CABINET FRAME TO GROUND BAR INDICATED WITH #4 AWG (CU) INSULATED GROUNDING CONDUCTOR. SEE DETAIL 3/E5.18.
- BOND OUTSIDE COPPER CABLE PLANT TO TELCOM GROUND BAR - TYPE 'A' WITH #4 AWG (CU) INSULATED GROUNDING CONDUCTOR.
- ENTRANCE FRAME WITH MULTIPLE 100 PAIR PROTECTOR BLOCKS. CONNECT TO GROUND BAR - TYPE 'A' PER MANUFACTURER'S RECOMMENDATIONS.
- OUTSIDE CABLE PLANT WITH INTEGRAL GROUNDING CONDUCTOR.
- RUN CONTINUOUS GROUND CONDUCTOR ENTIRE LENGTH OF TRAY. BOND TO EACH SECTION OF TRAY, SEE DETAIL 4/E5.18.
- RUN #4/0 AWG (CU) INSULATED GROUND CONDUCTOR BETWEEN TYPE 'A' AND 'B' GROUND BARS.
- PROTECTION FRAME INTEGRAL GROUND BAR TO BE BONDED TO THE TELECOMMUNICATIONS ROOM GROUND BAR 'A' WITH 1#2 AWG.
- ALL CABINETS, TERMINAL CABINETS, ETC. WITH HINGED DOORS SHALL HAVE A FLAT BRAIDED CABLE BONDING THE DOOR TO THE CABINET.

Revisions		
No.	Date	Note
1	11/16/22	ADDENDUM 1



480 VOLT TO 208Y/120 VOLT LIGHTING AND DISTRIBUTION TRANSFORMER GROUNDING DETAIL

1 E5.22 SCALE: NONE

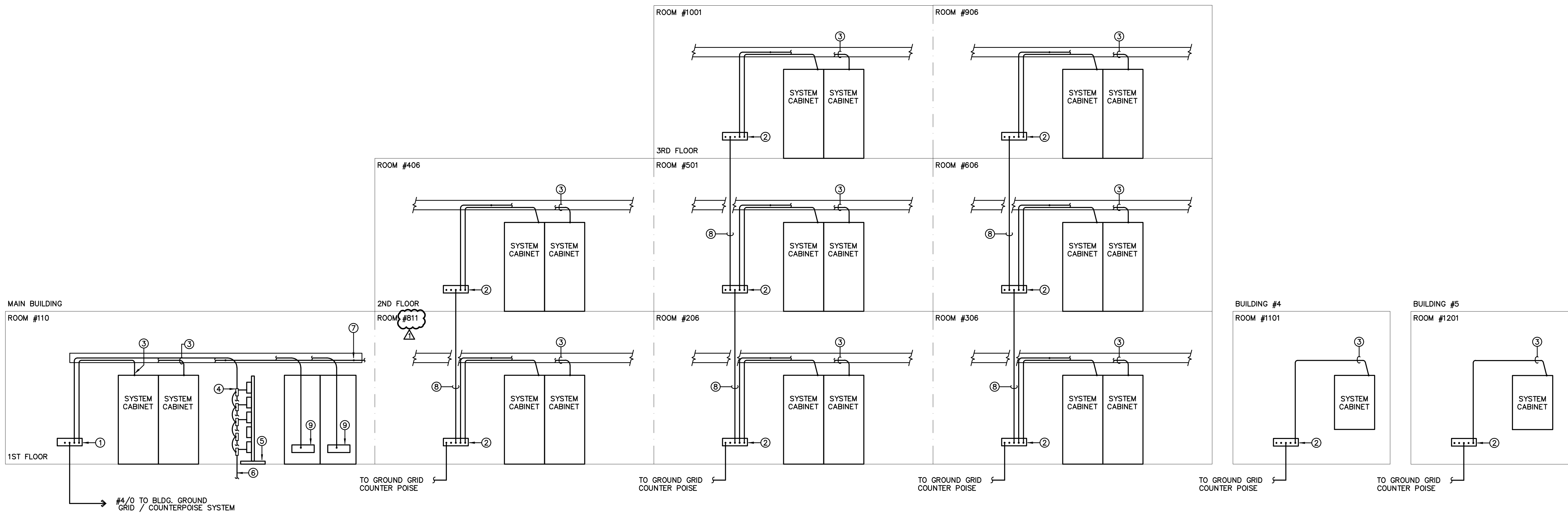


TELECOMMUNICATIONS GROUNDING RISER DIAGRAM

2 E5.22 SCALE: NONE

RISER DIAGRAM NOTES

- GROUND BAR - TYPE 'B' TO BE MOUNTED WITHIN SYSTEMS CABINET FRAME. COORDINATE EXACT LOCATION WITH RACK MOUNTED EQUIPMENT AND CABLING. SEE DETAIL 2/E5.18.
- BOND SYSTEMS CABINET FRAME TO GROUND BAR INDICATED WITH #4 AWG (CU) INSULATED GROUNDING CONDUCTOR. SEE DETAIL 3/E5.18.
- RUN #4/0 AWG (CU) INSULATED GROUND CONDUCTOR BETWEEN TYPE 'A' AND 'B' GROUND BARS.
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TELECOMMUNICATIONS GROUNDING RISER DIAGRAM

3 E5.22 SCALE: NONE

RISER DIAGRAM NOTES

- GROUND BAR - TYPE 'A'. SEE DETAIL 1/E5.18. ALL GROUNDING CONDUCTORS FOR TELECOMMUNICATIONS EQUIPMENT SHALL BE BONDED AT THIS POINT.
- GROUND BAR - TYPE 'B' TO BE MOUNTED WITHIN SYSTEMS CABINET FRAME. COORDINATE EXACT LOCATION WITH RACK MOUNTED EQUIPMENT AND CABLING. SEE DETAIL 2/E5.18.
- BOND SYSTEMS CABINET FRAME TO GROUND BAR INDICATED WITH #4 AWG (CU) INSULATED GROUNDING CONDUCTOR. SEE DETAIL 3/E5.18.
- BOND OUTSIDE COPPER CABLE PLANT TO TELCOM GROUND BAR - TYPE 'A' WITH #4 AWG (CU) INSULATED GROUNDING CONDUCTOR.
- ENTRANCE FRAME WITH MULTIPLE 100 PAIR PROTECTOR BLOCKS. CONNECT TO GROUND BAR - TYPE 'A' PER MANUFACTURER'S RECOMMENDATIONS.
- OUTSIDE CABLE PLANT WITH INTEGRAL GROUNDING CONDUCTOR.
- RUN CONTINUOUS GROUND CONDUCTOR ENTIRE LENGTH OF TRAY. BOND TO EACH SECTION OF TRAY. SEE DETAIL 4/E5.18.
- RUN #4/0 AWG (CU) INSULATED GROUND CONDUCTOR BETWEEN TYPE 'A' GROUND BARS.
- PROTECTION FRAME INTEGRAL GROUND BAR TO BE BONDED TO THE TELECOMMUNICATIONS ROOM GROUND BAR 'A' WITH #2 AWG.
- ALL CABINETS, TERMINAL CABINETS, ETC. WITH HINGED DOORS SHALL HAVE A FLAT BRAIDED CABLE BONDING THE DOOR TO THE CABINET.

Revisions		
No.	Date	Note
1	11/16/22	ADDENDUM 1

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[illegible]

PANELBOARD SCHEDULE										'1NHDA'		
BUS KVA			LOAD	POLES	TRIP	LOAD	TRIP	POLES	LOAD	BUS KVA		
A	B	C								A	B	C
2.9				-	1	2	-			30.46		
	2.2		PANEL '1NHA'	3	100	3	4	225	3		29.46	
		2.2		-	5	6	-		PANEL '1MHA'			26.46
12				-	7	8	-			8.4		
	13.5		PANEL '1NLA' VIA '1NTA' ③	3	125	9	10	125	3	PANEL '1DLA' VIA '1DTA' ③		8.6
		11.1		-	11	12	-					14.3
				-	13	14	-			-		
	-		SPACE	3	-	15	16	-	3	SPACE		-
		-		-	17	18	-					-
	-			-	19	20	-			-		
	-		SPACE	3	-	21	22	-	3	SPACE		-
		-		-	23	24	-					-
	-			-	25	26	-					-
	-		SPACE	3	-	27	28	-	3	SPACE		-
		-		-	29	30	-					-
	-			-	31	32	-			-		
	-		SPACE	3	-	33	34	-	3	SPACE		
		-		-	35	36	-					
	-			-	37	38	-			0		
	-		SPACE	3	-	39	40	30	3	SPD-2		0
		-		-	41	42	-					0
RATED VOLTAGE: 480/277V RATINGS IS TO BE 400 MAIN PROTECTION: 400 AMP MAIN BREAKER BRANCH POLES: 42 PANELBOARD IS TO BE () FUSED () BOLT IN CB TYPE ALL BREAKERS RATED:				3 PHASE, 4 WIRE AMPS			FEED IS TO BE () BOTTOM () TOP FROM GROUND BAR IS REQUIRED NEUTRAL BUS IS TO BE (X) FULL () DOUBLE SIZE HINGED DOOR WITH KEYPED LATCH (X) IS () IS NOT REQUIRED HARD WIRED SURGE PROTECTION (X) IS () IS NOT REQUIRED NEMA 1			'MDP'		
=				161580 VA			=			194.4 A		
				480" v3						CONNECTED LOAD: 162 KVA SPARE		

PANELBOARD SCHEDULE										1NHA				
BUS KVA			LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	BUS KVA			
A	B	C									A	B	C	
0.2			LIGHTING	1	20	1	2	20	1	LIGHTING	0.7			
	0.3		LIGHTING	1	20	3	4	20	1	LIGHTING		0.5		
			LIGHTING	1	20	5	6	20	1	LIGHTING			0.6	
1.3			LIGHTING	1	20	7	8	20	1	LIGHTING	0.7			
			SPARE	1	20	9	10	20	1	LIGHTING CORRIDOR		0.2		
			SPARE	1	20	11	12	20	1	LIGHTING EXTERIOR			0.1	
			SPARE	1	20	13	14	20	1					
			SPARE	1	20	15	16	20	1	SPARE				
			SPARE	1	20	17	18	20	1	SPARE				
			SPARE	1	20	19	20	20	1	SPARE				
			SPARE	1	20	21	22	20	1	SPARE				
			SPARE	1	20	23	24	20	1	SPARE				
			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		-		0			
	1.2		SIGN MARQUEE	2	20	39	40	30	3	SPD-2		0		
		1.2		-	-	41	42		-				0	
RATED VOLTAGE:			480/277V		3 PHASE, 4 WIRE		FEED IS TO BE () BOTTOM (X) TOP FROM				1NHDA			
RATINGS IS TO BE			100		AMPS		GROUND BAR IS REQUIRED							
MAIN PROTECTION:			100 AMP MAIN BREAKER						NEUTRAL BUS IS TO BE (X) FULL () DOUBLE SIZE					
BRANCH POLES:			42						HINGED DOOR WITH KEYS LATCH (X) IS () IS NOT REQUIRED					
PANELBOARD IS TO BE () FUSED (X) BOLT IN CB TYPE							HARD WIRE SURGE PROTECTION (X) IS () IS NOT REQUIRED							
ALL BREAKERS RATED:			18,000 AMPS, SYN RMS						NEMA 1					
										CONNECTED LOAD:		7 KVA		
I = $\frac{7300 \text{ VA}}{480 \times \sqrt{3}}$ = 8.8 A										SPARE				

PANELBOARD SCHEDULE										1MHA'			
BUS KVA			LOAD	POLES	TRIP	LOAD	TRIP	POLES	LOAD	BUS KVA			
A	B	C								A	B	C	
5.8			-	1	2	20	1	1	1B-1	1.0			
	5.8		3	40	3	4	20	1	1B-2		2.0		
		5.8	-		5	6	20	1	1B-3			1.0	
4			-		7	8	20	1	1B-4	1.0			
	4		3	20	9	10	20	1	1B-5		1.0		
		4	-		11	12	20	1	SPARE				
4			-		13	14	20	1	1B-7	0.5			
	4		3	25	15	16	20	1	1B-8		0.5		
		4	-		17	18	20	1	1B-9			1.0	
4			-		19	20	20	1	1B-10	0.5			
	4		3	20	21	22	20	1	1B-11		1.5		
		4	-		23	24	20	1	1B-12			0.5	
1.72			-		25	26	20	1	1B-13	1.5			
	1.72		3	15	27	28	20	1	1B-14		1.5		
		1.72	-		29	30	20	1	1B-15			1.0	
1.72			-		31	32	20	1	1B-16	3.0			
	1.72		3	15	33	34	20	1	SPARE				
		1.72	-		35	36	20	1	SPARE				
1.72			-		37	38	20	1	SPARE				
	1.72		3	15	39	40	20	1	SPARE				
		1.72	-		41	42	20	1	SPARE				
			-		43	44	20	1	SPARE				
		SPARE	3	30	45	46	20	1	SPARE				
			-		47	48	20	1	SPARE				
		SPARE	1	20	49	50	20	1	SPARE				
		SPARE	1	20	51	52	20	1	SPARE				
		SPARE	1	20	53	54	20	1	SPARE				
		SPARE	1	20	55	56	20	1	SPARE				
		SPARE	1	20	57	58	20	1	SPARE				
		SPARE	1	20	59	60	20	1	SPARE				
		SPACE			61	62			SPACE				
		SPACE			63	64			SPACE				
		SPACE			65	66			SPACE				
		SPACE			67	68			SPACE				
		SPACE			69	70			SPACE				
		SPACE			71	72			SPACE				
		SPACE			73	74			SPACE				
		SPACE			75	76			SPACE				
		SPACE			77	78			SPACE				
		SPACE			79	80		-		0			
		SPACE			81	82	30	3	SPD-2		0		
		SPACE			83	84		-				0	
RATED VOLTAGE: 480/277V			3 PHASE, 4 WIRE			FEED IS TO BE () BOTTOM (X) TOP FROM				1NHDA'			
RATINGS IS TO BE 400			AMPS			GROUND BAR IS REQUIRED							
MAIN PROTECTION: 225 AMP MAIN BREAKER							NEUTRAL BUS IS TO BE () FULL (X) DOUBLE SIZE						
BRANCH POLES: 84							HINGED DOOR WITH KEYS LATCH (X) IS () IS NOT REQUIRED						
PANELBOARD IS TO BE () FUSED (X) BOLT IN CB TYPE							HARD WIRED SURGE PROTECTION (X) IS () IS NOT REQUIRED						
ALL BREAKERS RATED: 42, 200 AMPS, SYM RMS							NEMA 1						
I = 86380 VA			= 103.9 A			CONNECTED LOAD:				86 KVA			
480" V3													

PANELBOARD SCHEDULE											`INLA`			
BUS KVA			LOAD	POLES	TRIP	LOAD	TRIP	POLES	LOAD	BUS KVA				
A	B	C								A	B	C		
0.5	0.7		RECEPTACLES	1	20	1	2	20	1	RECEPTACLES	0.7			
			RECEPTACLES	1	20	3	4	20	1	RECEPTACLES		0.7		
0.7	0.5		RECEPTACLES	1	20	5	6	20	1	RECEPTACLES			0.5	
			RECEPTACLES	1	20	7	8	20	1	RECEPTACLES	0.5			
			SPARE	1	20	9	10	20	1	RECEPTACLES		0.5		
			SPARE	1	20	11	12	20	1	RECEPTACLES			0.5	
			SPARE	1	20	13	14	20	1	RECEPTACLES	0.7			
0.5	0.5		RECEPTACLES	1	20	15	16	20	1	RECEPTACLES		1		
			RECEPTACLES	1	20	17	18	20	1	RECEPTACLES			0.5	
0.5	0.4		RECEPTACLES	1	20	19	20	20	1	RECEPTACLES		0.5		
			RECEPTACLES	1	20	21	22	20	1	RECEPTACLES			0.7	
0.5	0.7		RECEPTACLES	1	20	23	24	20	1	RECEPTACLES			0.4	
			RECEPTACLES	1	20	25	26	20	2	COPIER	1.2			
0.5	0.5		RECEPTACLES	1	20	27	28	-				1.2		
			RECEPTACLES	1	20	29	30	20	1	RECEPTACLES			0.4	
0.7	0.7		RECEPTACLES	1	20	31	32	20	1	RECEPTACLES		0.5		
			RECEPTACLES	1	20	33	34	20	1	IONIZATION AHU-1			0.6	
0.4	0.7		RECEPTACLES	1	20	35	36	20	1	SPARE				
			RECEPTACLES	1	20	37	38	20	1	SPARE				
0.7	0.7		RECEPTACLES	1	20	39	40	20	1	SPARE				
			RECEPTACLES	1	20	41	42	20	1	SPARE				
1.2			COPIER	2	20	43	44	20	1	SPARE				
1.2	0.7			-		45	46	20	1	SPARE				
			RECEPTACLES	1	20	47	48	20	1	SPARE				
0.4	0.4		RECEPTACLES	1	20	49	50	20	1	SPARE				
			RECEPTACLES	1	20	51	52	20	1	PROJECTOR SCREEN	1.2			
0.4	0.4		RECEPTACLES	1	20	53	54	20	1	LOCAL SOUND SYSTEM		1.2		
			RECEPTACLES	1	20	55	56	20	1	DOOR OPENER	0.5			
0.5	0.7		RECEPTACLES	1	20	57	58	20	1	SPARE				
			RECEPTACLES	1	20	59	60	20	1	EF1-1 (1/6HP)			0.5	
0.7	0.5		RECEPTACLES	1	20	61	62	20	1	CTV LIGHTING	0.2			
			RECEPTACLES	1	20	63	64	20	1	CONF. LTG. RM 121		0.2		
0.7	0.5		RECEPTACLES	1	20	65	66	20	1	CONF. LTG. RM 117			0.2	
			RECEPTACLES	1	20	67	68	20	1	CONF. LTG. RM 105	0.2			
0.5	0.6		RECEPTACLES GFI	1	20	69	70	20	1	AMPLIFIER		0.6		
			SPARE	1	20	71	72	20	1	PUMP CONT			0.2	
0.5	0.6		SPARE	1	20	73	74	20	1	MONUMENTAL SIGN	0.3			
			SPARE	1	20	75	76	20	1	PUMP CONT		0.2		
0.5	0.6		SPARE	1	20	77	78	20	1	PUMP CONT			0.2	
			SPARE	1	20	79	80	-			0			
0.6	0.6		SPARE	1	20	81	82	30	3	SPD-2		0		
			MECHA. DAMPERS	1	20	83	84	-					0	
RATED VOLTAGE: 120/208V				3 PHASE, 4 WIRE				FEED IS TO BE () BOTTOM (X) TOP FROM				`INTA`		
RATINGS IS TO BE 400				AMPS				IS REQUIRED						
MAIN PROTECTION: 250 AMP MAIN BREAKER								NEUTRAL BUS IS TO BE (X) FULL () DOUBLE SIZE						
BRANCH POLES: 84								HINGED DOOR WITH KEYS LATCH (X) IS () IS NOT REQUIRED						
PANELBOARD IS TO BE () FUSED (X) BOLT IN CB TYPE								HARD WIRED SURGE PROTECTION (X) IS () IS NOT REQUIRED						
ALL BREAKERS RATED: 42,000 AMPS, SYM RMS								NEMA 1						
I = 36600 VA				= 101.6 A				CONNECTED LOAD:				37 KVA		
208T-V3														

PANELBOARD SCHEDULE										`1EHA`			
BUS KVA			LOAD	POLES	TRIP	LOAD	TRIP	POLES	LOAD	BUS KVA			
A	B	C								A	B	C	
0.6			LIGHTING	1	20	1	2	20	1	LIGHTING	0.3	0.5	
		0.4	LIGHTING	1	20	3	4	20	1	LIGHTING			
0.3			SPARE	1	20	5	6	20	1	LIGHTING CORRIDOR			0.4
			LIGHTING CORRIDOR	1	20	7	8	20	1	SPARE			
			SPARE	1	20	9	10	20	1	SPARE			
			SPARE	1	20	11	12	20	1	SITE LIGHTING			2.147
			SPARE	1	20	13	14	20	1	SITE LIGHTING	2.147		
			SPARE	1	20	15	16	20	1	SITE LIGHTING		2.147	
			SPARE	1	20	17	18	20	1	SITE LIGHTING			2.147
			SPARE	1	20	19	20	20	1	CANOPY LIGHTING	1.2		
			SPARE	1	20	21	22	20	1	SPARE			
			SPARE	1	20	23	24	20	1	SPARE			
			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	-			0		
			SPACE			39	40	30	3	SPD-2		0	
			SPACE			41	42	-					0
RATED VOLTAGE: 480/277V				3 PHASE, 4 WIRE		FEED IS TO BE () BOTTOM (X) TOP FROM				EMDP			
RATINGS IS TO BE 100				AMPS		GROUND BAR IS REQUIRED							
MAIN PROTECTION: 100 AMP MAIN BREAKER						NEUTRAL BUS IS TO BE (X) FULL () DOUBLE SIZE							
BRANCH POLES: 42						HINGED DOOR WITH LATCH (X) IS () IS NOT REQUIRED							
PANELBOARD IS TO BE () FUSED (X) BOLT IN CB TYPE						HARD WIRED SURGE PROTECTION (X) IS () IS NOT REQUIRED							
ALL BREAKERS RATED: 18,000 AMPS, SYM RMS						NEMA 1							
I = $\frac{22888 \text{ VA}}{480 \sqrt{3}}$ = 34.8 A										CONNECTED LOAD: 12 KVA			
										SPARE			

PANELBOARD SCHEDULE										`1ELA`			
BUS KVA			LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	BUS KVA		
A	B	C									A	B	C
0.6			FIRE ALARM TC RM 206	1	20	1	2	20	1	MAIN FIRE ALRM C.P.	0.6		
	0.6		FIRE ALARM TC RM 306	1	20	3	4	20	1	FIRE ALARM PRINTER		0.6	
		0.6	FIRE ALARM TC RM 406	1	20	5	6	20	1	ELEV 1 SHUNT TRIP			0.2
0.6	FIRE ALARM TC RM 606		1	20	7	8	20	1	ELEV 1 LTG/CTRL	0.2			
			SPARE	1	20	9	10	20	1	EMERGENCY RADIO		0.6	
			SPARE	1	20	11	12	20	1	SPARE			
			SPARE	1	20	13	14	20	1	SPARE			
	0.6		FIRE ALARM TC RM 1101	1	20	15	16	20	1	SPARE			
		0.6	FIRE ALARM TC RM 1201	1	20	17	18	20	1	SPARE			
			SPARE	1	20	19	20	20	1	SPARE			
			SPARE	1	20	21	22	20	1	SPARE			
			SPARE	1	20	23	24	20	1	SPARE			
			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	-			0		
			SPACE			39	40	30	3	SPD-2		0	
			SPACE			41	42	-					0
RATED VOLTAGE: 120/208V				3 PHASE, 4 WIRE		FEED IS TO BE () BOTTOM (X) TOP FROM					'1ETA'		
RATINGS IS TO BE 100				AMPS		GROUND BAR IS REQUIRED							
MAIN PROTECTION: 60 AMP MAIN BREAKER						NEUTRAL BUS IS TO BE (X) FULL () DOUBLE SIZE							
BRANCH POLES: 84						HINGED DOOR WITH KEVED LATCH (X) IS () IS NOT REQUIRED							
PANELBOARD IS TO BE (F) USED (X) BOLT IN CB TYPE						HARD WURED SURED PROTECTION (X) IS () IS NOT REQUIRED							
ALL BREAKERS RATED: 42,000 AMPS, 5YM RMS						NEMA 1							
						CONNECTED LOAD:					6 kVA		
I = 5800 VA				= 16.1 A		SPARE							
208T V _L													

PANELBOARD SCHEDULE											`1DLA`			
BUS KVA			LOAD	POLES	TRIP	LOAD	TRIP	POLES	LOAD	BUS KVA				
A	B	C								A	B	C		
0.7	0.7		COMP. RECEPT	1	20	1	2	20	1	COMP. RECEPT	0.4			
			COMP. RECEPT	1	20	3	4	20	1	COMP. RECEPT		0.7		
0.7	0.7		COMP. RECEPT	1	20	5	6	20	1	COMP. RECEPT			0.7	
			COMP. RECEPT	1	20	7	8	20	1	COMP. RECEPT	0.4			
0.7	0.9		COMP. RECEPT	1	20	9	10	20	1	COMP. RECEPT		0.7		
			COMP. RECEPT	1	20	11	12	20	1	COMP. RECEPT			7	
0.7	0.9		SPARE	1	20	13	14	20	1	COMP. RECEPT	0.7			
			COMP. RECEPT	1	20	15	16	20	1	COMP. RECEPT		0.7		
0.7	0.4		COMP. RECEPT	1	20	17	18	20	1	COMP. RECEPT			0.7	
			COMP. RECEPT	1	20	19	20	20	1	COMP. RECEPT	0.7			
0.7	0.7		COMP. RECEPT	1	20	21	22	20	1	COMP. RECEPT		0.7		
			COMP. RECEPT	1	20	23	24	20	1	COMP. RECEPT			0.7	
0.7	0.7		COMP. RECEPT	1	20	25	26	20	1	COMP. RECEPT	0.7			
			COMP. RECEPT	1	20	27	28	20	1	COMP. RECEPT		0.7		
0.4	0.7		COMP. RECEPT	1	20	29	30	20	1	COMP. RECEPT			0.7	
			COMP. RECEPT	1	20	31	32	20	1	COMP. RECEPT	0.7			
0.7	0.4		COMP. RECEPT	1	20	33	34	20	1	SPARE				
			COMP. RECEPT	1	20	35	36	20	1	SPARE				
0.9	0.7		COMP. RECEPT	1	20	37	38	20	1	SPARE				
			COMP. RECEPT	1	20	39	40	20	1	SPARE				
0.7	0.7		COMP. RECEPT	1	20	41	42	20	1	SPARE				
			COMP. RECEPT	1	20	43	44	20	1	SPARE				
			SPARE	1	20	45	46	20	1	SPARE				
			SPARE	1	20	47	48	20	1	SPARE				
			SPARE	1	20	49	50	20	1	SPARE				
			SPARE	1	20	51	52	20	1	SPARE				
			SPARE	1	20	53	54	20	1	SPARE				
			SPARE	1	20	55	56	20	1	SPARE				
			SPARE	1	20	57	58	20	1	SPARE				
			SPARE	1	20	59	60	20	1	SPARE				
			SPACE			61	62			SPACE				
			SPACE			63	64			SPACE				
			SPACE			65	66			SPACE				
			SPACE			67	68			SPACE				
			SPACE			69	70			SPACE				
			SPACE			71	72			SPACE				
			SPACE			73	74			SPACE				
			SPACE			75	76			SPACE				
			SPACE			77	78			SPACE				
			SPACE			79	80			-			0	
			SPACE			81	82	30	3	SPD-2				0
						83	84			-				0
RATED VOLTAGE:			120/208V		3 PHASE, 4 WIRE		FEED IS TO BE () BOTTOM (X) TOP FROM		1DTA`					
RATINGS IS TO BE			400		AMPS		GROUND BAR IS REQUIRED							
MAIN PROTECTION:			250 AMP MAIN BREAKER				NEUTRAL BUS IS TO BE () FULL (X) DOUBLE SIZE							
BRANCH POLES:			84				HINGED DOOR WITH KEYS LATCH (X) IS () IS NOT REQUIRED							
PANELBOARD IS TO BE () FUSED (X) BOLT IN CB TYPE							HARD WIRED SURGE PROTECTION (X) IS () IS NOT REQUIRED							
ALL BREAKERS RATED:			42,000 AMPS, SYM RMS				NEMA 1							
I =			31300 VA		= 86.9 A		CONNECTED LOAD:				31 KVA			
			208`V3`											

PANELBOARD SCHEDULE										"1QLA"		
BUS KVA			POLES	TRIP	LOAD	TRIP	POLES	LOAD		BUS KVA		
A	B	C								A	B	C
0.4				1	20	1	2	20	1	FMS C.P.		
	0.4			1	20	3	4	20	1	SPARE		
		0.6		1	20	5	6	20	1	SPARE		
				1	20	7	8	20	1	SPARE		
0.6				1	20	9	10	20	1	SPARE		
				1	20	11	12	20	1	SPARE		
				1	20	13	14	20	1	SPARE		
				1	20	15	16	20	1	SPARE		
				1	20	17	18	20	1	SPARE		
0.4				1	30	19	20	20	1	RECEPT. DATA RM 110	0.4	
	0.4			1	30	21	22	20	1	RECEPT. DATA RM 110		0.4
		0.4		1	30	23	24	20	1	RECEPT. DATA RM 110		0.4
0.4				1	30	25	26	20	1	RECEPT. DATA RM 110	0.4	
	0.4			1	30	27	28	20	1	RECEPT. DATA RM 110		0.4
		0.4		1	30	29	30	20	1	RECEPT. DATA RM 110		0.4
0.4				1	30	31	32	20	1	SPARE		
	0.4			1	30	33	34	20	1	SPARE		
0.7592				2	25	35	36	20	1	SPARE		
	0.8			-	-	37	38	-	-		0	
		0.1		2	20	39	40	30	3	SPD-2		0
0.1				-	-	41	42	-	-			0
RATED VOLTAGE: 120/208V			3 PHASE, 4 WIRE			FEED IS TO BE () BOTTOM (X) TOP FROM				"1QTA"		
RATINGS IS TO BE 100			AMPS			GROUND BAR IS REQUIRED						
MAIN PROTECTION: 60 AMP MAIN BREAKER						NEUTRAL BUS IS TO BE (X) FULL () DOUBLE SIZE						
BRANCH POLES: 42						HINGED DOOR WITH KEYPAD LATCH (X) IS () IS NOT REQUIRED						
PANELBOARD IS TO BE (FUSED) (X) BOLT IN CB TYPE						HARD WIRING SURGE PROTECTION (X) IS () IS NOT REQUIRED						
ALL BREAKERS RATED: 10,000 AMPS, SYM RMS						NEMA 1						
						CONNECTED LOAD:				10 KVA		
						SPARE						
I = 9950.2 VA			= 27.6 A									
.208*V3												

TYPICAL BRANCH CIRCUIT WIRE AND CONDUIT SCHEDULE

BREAKER TRIP	CONDUCTOR AWG	GROUND AWG	CONDUIT
20A	12	12	3/4"
25A	10	10	3/4"
30A	10	10	3/4"
35A	8	8	1"
40A	8	10	1"
45A	8	10	1"
50A	8	10	1"
60A	6	8	1-1/4"
70A	4	8	1-1/4"
80A	4	8	1-1/4"
90A	3	8	1-1/2"
100A	3	8	1-1/2"

1. CONTRACTOR TO ADJUST SIZES PER FIELD INSTALLED LENGTHS TO MAINTAIN A MAXIMUM VOLTAGE DROP OF 3%.

2. PROVIDE CONDUCTORS PER BREAKER POLARITY, INCLUDE NEUTRAL FOR ALL 1PH AND 3PH LOADS AS REQUIRED.

GENERAL PANELBOARD NOTE

UPON COMPLETION OF JOB RECEPTACLE LOCATIONS TO BE SHOWN AND SCHEDULE LOAD DESCRIPTION BY THE CONTRACTOR

- 1 BREAKER SHALL HAVE GFI PROTECTION PER NEC 422.52
- 2 BREAKER SHALL HAVE GFI PROTECTION, CONNECT WATER COOLER VIA LOCAL 120V CONTRACTOR, RATED FOR COMPRESSOR CURRENT, WITH 24V INPUT TO BMS SYSTEM. ELECTRICIAN TO PROVIDE CONTRACTOR AND ASSOCIATED CONDUIT.
- 3 PROVIDE BREAKER WITH LOCK-OUT HARDWARE AND APPLY LABELING AT ASSOCIATED TRANSFORMER INDICATING LOCATION AND EQUIPMENT TAG OF UPSTREAM DISCONNECT MEANS PER NEC 450.14.

1NHDA	1NLA	1DLA
1NHA	1EHA	1QLA
1MHA	1ELA	

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PANELBOARD SCHEDULE												2NHDA		
BUS KVA			LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	BUS KVA	A	B	C
A	B	C												
4.5	1.7		PANEL 2NHA	-	1	2	-	-	-	PANEL 2MHA	31.3			
	0.5			3	100	3	4	225	3		29.3			
17.9	16.65		PANEL 2NLA VIA 2NTA	-	5	6	-	-	-		15			30.3
	17.7			3	125	9	10	125	3	PANEL 2DLA VIA 2DTA	12.1			
				-	11	12	-	-	-		11.2			
				-	13	14	-	-	-					
-	-		SPACE	3	-	15	16	-	3	SPACE				
				-	17	18	-	-	-					
-	-			-	19	20	-	-	-					
-	-		SPACE	3	-	21	22	-	3	SPACE				
				-	23	24	-	-	-					
-	-			-	25	26	-	-	-					
-	-		SPACE	3	-	27	28	-	3	SPACE				
				-	29	30	-	-	-					
-	-			-	31	32	-	-	-					
-	-		SPACE	3	-	33	34	-	3	SPACE				
				-	35	36	-	-	-					
-	-			-	37	38	-	-	-		0			
-	-		SPACE	3	-	39	40	30	3	SPD-2				0
				-	41	42	-	-	-		0			0
RATED VOLTAGE: 480/277V 3 PHASE, 4 WIRE FEED IS TO BE () BOTTOM (X) TOP FROM 2NDP														
RATINGS IS TO BE 400 AMPS GROUND BAR IS REQUIRED														
MAIN PROTECTION: 400 AMP MAIN BREAKER NEUTRAL BUS IS TO BE (X) FULL () DOUBLE SIZE														
BRANCH POLES: 42 HINGED DOOR WITH KEYS LATCH (X) IS () IS NOT REQUIRED														
PANELBOARD IS TO BE () FUSED (X) BOLT IN CB TYPE HARD WIRED SURGE PROTECTION (X) IS () IS NOT REQUIRED														
ALL BREAKERS RATED: 42,000 AMPS, SYM RMS NEMA 1														
I = 188150 VA = 226.3 A CONNECTED LOAD: 188 kVA														
480* V3 SPARE														

PANELBOARD SCHEDULE												2NHA		
BUS KVA			LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	BUS KVA	A	B	C
A	B	C												
2			LIGHTING	1	20	1	2	20	1	LIGHTING	2			
	0.3		LIGHTING	1	20	3	4	20	1	LIGHTING	0.2			
			SPARE	1	20	5	6	20	1	LIGHTING				0.3
			SPARE	1	20	7	8	20	1	LIGHTING CORRIDOR	0.4			
			SPARE	1	20	9	10	20	1	LIGHTING CORRIDOR	1.1			
			SPARE	1	20	11	12	20	1	SPARE				
			SPARE	1	20	13	14	20	1	SPARE				
			SPARE	1	20	15	16	20	1	SPARE				
			SPARE	1	20	17	18	20	1	SPARE				
			SPARE	1	20	19	20	20	1	SPARE				
			SPARE	1	20	21	22	20	1	SPARE				
			SPARE	1	20	23	24	20	1	LIGHTING EXTERIOR	0.2			
			SPARE	1	20	25	26	20	1	LIGHTING STAIRWELL	0.1			
			SPARE	1	20	27	28	20	1	LIGHTING STAIRWELL	0.1			
			SPARE	1	20	29	30	20	1	SPARE				
			SPACE	1	20	31	32	20	1	SPARE				
			SPACE	33	34	20	1	SPARE						
			SPACE	35	36	20	1	SPARE						
			SPACE	37	38	-	-	-	-		0			
			SPACE	39	40	30	3	SPD-2			0			
			SPACE	41	42	-	-	-	-		0			
RATED VOLTAGE: 480/277V 3 PHASE, 4 WIRE FEED IS TO BE () BOTTOM (X) TOP FROM 2NHDA														
RATINGS IS TO BE 100 AMPS GROUND BAR IS REQUIRED														
MAIN PROTECTION: 100 AMP MAIN BREAKER NEUTRAL BUS IS TO BE (X) FULL () DOUBLE SIZE														
BRANCH POLES: 42 HINGED DOOR WITH KEYS LATCH (X) IS () IS NOT REQUIRED														
PANELBOARD IS TO BE () FUSED (X) BOLT IN CB TYPE HARD WIRED SURGE PROTECTION (X) IS () IS NOT REQUIRED														
ALL BREAKERS RATED: 42,000 AMPS, SYM RMS NEMA 1														
I = 6700 VA = 8.1 A CONNECTED LOAD: 7 kVA														
480* V3 SPARE														

PANELBOARD SCHEDULE												2MHA		
BUS KVA			LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	BUS KVA	A	B	C
A	B	C												
11				-	1	2	20	1	TB 2-1		1.0			
	11		AHU-2 (15 HP)	3	80	3	4	20	1	TB 2-2	2.0			
				-	5	6	20	1	TB 2-3		2.0			2.0
				-	7	8	20	1	TB 2-4		2.0			
7.3	7.3		FTB 2-1 (22KW)	3	40	9	10	20	1	TB 2-5	2.0			1.0
				-	11	12	20	1	TB 2-6		2.0			
				-	13	14	20	1	TB 2-7		2.0			
			SPARE	3	15	15	16	20	1	TB 2-8	2.0			
				-	17	18	20	1	TB 2-9		2.0			
				-	19	20	20	1	TB 2-10		2.0			
			SPARE	3	20	21	22	20	1	TB 2-11	1.0			
				-	23	24	20	1	TB 2-12		2.0			
				-	25	26	20	1	TB 2-13		2.0			
			SPARE	3	20	27	28	20	1	TB 2-14	2.0			
				-	29	30	20	1	TB 2-15		2.0			
2			TB 2-16	1	20	31	32	20	1	SPARE				
	2		TB 2-17	1	20	33	34	20	1	SPARE				
		3	TB 2-18	1	20	35	36	20	1	SPARE				
			TB 2-19	1	20	37	38	-	-		0			
			SPARE	1	20	39	40	30	3	SPD-2				0
			SPARE	1	20	41	42	-	-		0			
RATED VOLTAGE: 480/277V 3 PHASE, 4 WIRE FEED IS TO BE () BOTTOM (X) TOP FROM 2NHDA														
RATINGS IS TO BE 400 AMPS GROUND BAR IS REQUIRED														
MAIN PROTECTION: 225 AMP MAIN BREAKER NEUTRAL BUS IS TO BE () FULL (X) DOUBLE SIZE														
BRANCH POLES: 42 HINGED DOOR WITH KEYS LATCH (X) IS () IS NOT REQUIRED														
PANELBOARD IS TO BE () FUSED (X) BOLT IN CB TYPE HARD WIRED SURGE PROTECTION (X) IS () IS NOT REQUIRED														
ALL BREAKERS RATED: 42,000 AMPS, SYM RMS NEMA 1														
I = 90900 VA = 109.3 A CONNECTED LOAD: 91 kVA														
480* V3 SPARE														

PANELBOARD SCHEDULE											'2NLA'						
BUS KVA			LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	BUS KVA						
A	B	C									A	B	C				
0.5			RECEPTACLES	1	20	1	2	20	1	RECEPTACLES	0.5						
	0.7		RECEPTACLES	1	20	3	4	20	1	RECEPTACLES		0.7					
		0.5	RECEPTACLES	1	20	5	6	20	1	RECEPTACLES			0.5				
0.7			RECEPTACLES	1	20	7	8	20	1	RECEPTACLES	0.7						
			SPARE	1	20	9	10	20	1	RECEPTACLES		0.5					
			SPARE	1	20	11	12	20	1	RECEPTACLES			0.7				
			SPARE	1	20	13	14	20	1	RECEPTACLES		0.5					
	0.7		RECEPTACLES	1	20	15	16	20	1	RECEPTACLES		0.7					
		0.5	RECEPTACLES	1	20	17	18	20	1	RECEPTACLES			0.5				
0.7			RECEPTACLES	1	20	19	20	20	1	RECEPTACLES	0.7						
	0.5		RECEPTACLES	1	20	21	22	20	1	RECEPTACLES		0.5					
		0.7	RECEPTACLES	1	20	23	24	20	1	RECEPTACLES			0.7				
0.5			RECEPTACLES	1	20	25	26	20	1	RECEPTACLES	0.7						
	0.7		RECEPTACLES	1	20	27	28	20	1	RECEPTACLES		0.5					
		0.7	RECEPTACLES	1	20	29	30	20	1	RECEPTACLES			0.5				
0.5			RECEPTACLES	1	20	31	32	20	1	RECEPTACLES	0.5						
	0.7		RECEPTACLES	1	20	33	34	20	1	RECEPTACLES		0.7					
		0.7	RECEPTACLES	1	20	35	36	20	1	RECEPTACLES			0.7				
0.7			RECEPTACLES	1	20	37	38	20	2	SPARE							
	0.5		RECEPTACLES	1	20	39	40	-	-	-							
		0.5	RECEPTACLES	1	20	41	42	20	1	SPARE							
0.5			RECEPTACLES	1	20	43	44	20	2	SPARE							
	0.7		RECEPTACLES	1	20	45	46	-	-	-							
		0.9	RECEPTACLES	1	20	47	48	-	-	RECEPTACLES			0.4				
0.4			RECEPTACLES	1	20	49	50	20	1	RECEPTACLES		0.5					
	0.4		RECEPTACLES	1	20	51	52	20	1	RECEPTACLES			0.7				
		1.8	REFRIGERATOR	1	20	53	54	20	1	RECEPTACLES			0.9				
1.8			REFRIGERATOR	1	20	55	56	20	1	RECEPTACLES	0.5						
	1.8		RANGE	2	40	57	58	20	1	IONIZATION AHU-2		0.6					
		1.8		-	-	59	60	20	1	HOOD			0.7				
1.8			RANGE	2	40	61	62	20	1	HOOD	0.7						
	1.8			-	-	63	64	20	1	EF-2.1 (1/AHP)		0.6					
		0.7	RECEPTACLES	1	20	65	66	20	1	EF-2.2 (1/AHP)			0.6				
0.9			ELEV. SUMP PUMP	1	20	67	68	20	1	RECEPTACLES	0.9						
	0.2		RECEPT ELEV RM	1	20	69	70	20	1	SPARE							
		0.1	ELEV. PIT LIGHT	1	20	71	72	20	1	SPARE							
2				-	-	73	74	20	1	SPARE							
	2		WH-B (6KW)	3	25	75	76	20	1	SPARE							
		2		-	-	77	78	20	1	SPARE							
0.7			C PUMP (WH-B 1/4HP)	1	20	79	80	-	-	-	0						
	0.45		EF 2-3, EF 2-4, EF 2-5	1	20	81	82	30	3	SPD-2							
		0.6	MECH. DAMPERS	1	20	83	84	-	-	-			0				
RATED VOLTAGE:			120/208V		3 PHASE, 4 WIRE		FEED IS TO BE () BOTTOM (X) TOP FROM				'2N1A'						
RATINGS IS TO BE			400		AMPS		GROUND BAR IS REQUIRED										
MAIN PROTECTION:			250 AMP MAIN BREAKER						NEUTRAL BUS IS TO BE (X) FULL () DOUBLE SIZE								
BRANCH POLES:			84						HINGED DOOR WITH KEYS LATCH (X) IS () IS NOT REQUIRED								
PANELBOARD IS TO BE () FUSED (X) BOLT IN CB TYPE											HARD WIRED SURGE PROTECTION (X) IS () IS NOT REQUIRED						
ALL BREAKERS RATED:			42,000 AMPS, SYM RMS						NEMA 1								
									CONNECTED LOAD:				52 KVA				
I =			52250 VA		=		145.0 A										
			208* V3														

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PANELBOARD SCHEDULE													'3NHDA'								
BUS KVA			LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	BUS KVA										
A	B	C									A	B	C								
4.5				-	1	2			-		27.779										
	1.7		PANEL '3NHA'	3	100	3	4	225	3	PANEL '3MHA'		25.779									
		0.5		-	5	6			-				25.779								
14.9				-	7	8			-		14.3										
	13.9		PANEL '3NLA' VIA '3NTA' (3)	3	125	9	10	125	3	PANEL '3DLA' VIA '3DTA' (3)		10.7									
		16.2		-	11	12			-			9.8									
4.4				-	13	14			-												
	3.8		PANEL '3NLB' VIA '3NTB' (3)	3	45	15	16	-	3	SPACE		-									
		3.5		-	17	18			-				-								
-	-			-	19	20			-				-								
	-		SPACE	3	-	21	22	-	3	SPACE		-									
	-			-	23	24			-			-									
	-			-	25	26			-												
	-		SPACE	3	-	27	28	-	3	SPACE		-									
	-			-	29	30			-				-								
	-			-	31	32			-												
	-		SPACE	3	-	33	34	-	3	SPACE											
	-			-	35	36			-												
	-			-	37	38			-		0										
	-		SPACE	3	-	39	40	30	3	SPD-2		0									
	-			-	41	42			-				0								
RATED VOLTAGE: 480/277V													3 PHASE, 4 WIRE			FEED IS TO BE () BOTTOM (X) TOP FROM			'MDP'		
RATINGS IS TO BE 400 AMP													AMPS			GROUND BAR IS REQUIRED					
MAIN PROTECTION: 400 AMP MAIN BREAKER																NEUTRAL BUS IS TO BE (X) FULL () DOUBLE SIZE					
BRANCH POLES: 42																HINGED DOOR WITH KEYPED LATCH (X) IS () IS NOT REQUIRED					
PANELBOARD IS TO BE () FUSED (X) BOLT IN CB TYPE																HARD WIRED SURGE PROTECTION (X) IS () IS NOT REQUIRED					
ALL BREAKERS RATED: 42,000 AMPS, SYM RMS																NEMA 1					
I = 177537 VA													= 213.6			A			CONNECTED LOAD: 178 KVA		
480* V3																			SPARE		

PANELBOARD SCHEDULE													3NHA		
BUS KVA			LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	BUS KVA				
A	B	C									A	B	C		
2	0.3		LIGHTING	1	20	1	2	20	1	LIGHTING	2				
		LIGHTING	1	20	3	4	20	1	LIGHTING		0.2				
		SPARE	1	20	5	6	20	1	LIGHTING			0.3			
		SPARE	1	20	7	8	20	1	LIGHTING CORRIDOR	0.4					
		SPARE	1	20	9	10	20	1	LIGHTING CORRIDOR		1.1				
		SPARE	1	20	11	12	20	1	SPARE						
		SPARE	1	20	13	14	20	1	SPARE						
		SPARE	1	20	15	16	20	1	SPARE						
		SPARE	1	20	17	18	20	1	SPARE						
		SPARE	1	20	19	20	20	1	SPARE						
		SPARE	1	20	21	22	20	1	SPARE						
		SPARE	1	20	23	24	20	1	LIGHTING EXTERIOR		0.2				
		SPARE	1	20	25	26	20	1	LIGHTING STAIRWELL	0.1					
		SPARE	1	20	27	28	20	1	LIGHTING STAIRWELL		0.1				
		SPARE	1	20	29	30	20	1	SPARE						
		SPACE				31	32	20	1	SPARE					
		SPACE				33	34	20	1	SPARE					
SPACE				35	36	20	1	SPARE							
SPACE				37	38	-			0						
SPACE				39	40	30	3	SPD-2		0					
SPACE				41	42	-					0				

RATINGS IS TO BE		100	AMPS		GROUND BAR IS REQUIRED				
MAIN PROTECTION:		100 AMP MAIN BREAKER			NEUTRAL BUS IS TO BE (X) FULL () DOUBLE SIZE				
BRANCH POLES:		42			HINGED DOOR WITH KEYPED LATCH (X) IS () IS NOT REQUIRED				
PANELBOARD IS TO BE () FUSED (X) BOLT IN CB TYPE						HARD WIRED SURGE PROTECTION (X) IS () IS NOT REQUIRED			
ALL BREAKERS RATED:		42,000 AMPS, SYM RMS		NEMA 1					
I = <u> 7900 VA </u>		=	8.1	A	CONNECTED LOAD:		7 KVA		
480" V3				SPARE					

PANELBOARD SCHEDULE										'3MHA'			
BUS KVA			LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	BUS KVA		
A	B	C									A	B	C
7.479				-	1	2	20	1	TB 3-1		1.0		
	7.479		AHU-3 (20 HP)	3	60	3	4	20	1	TB 3-2		2.0	
		7.479		-	5	6	20	1	TB 3-3			2.0	
7.3				-	7	8	20	1	TB 3-4		2.0		
	7.3		FTB 3-1 (22KW)	3	40	9	10	20	1	TB 3-5		2.0	
		7.3		-	11	12	20	1	TB 3-6			1.0	
				-	13	14	20	1	TB 3-7		2.0		
			SPARE	3	15	15	16	20	1	TB 3-8		2.0	
				-	17	18	20	1	TB 3-9			2.0	
				-	19	20	20	1	TB 3-10		2.0		
			SPARE	3	15	21	22	20	1	TB 3-11			1.0
				-	23	24	20	1	TB 3-12			2.0	
2			TB 3-16	1	20	25	26	20	1	TB 3-13		2.0	
	2		TB 3-17	1	20	27	28	20	1	TB 3-14			2.0
		2	TB 3-18	1	20	29	30	20	1	TB 3-15			2.0
			TB 3-19	1	20	31	32	20	1	SPARE			
			SPARE	1	20	33	34	20	1	SPARE			

PANELBOARD SCHEDULE													'3NLA'		
BUS KVA			LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	BUS KVA				
A	B	C									A	B	C		
0.5			RECEPTACLES	1	20	1	2	20	1	RECEPTACLES	0.5				
	0.7		RECEPTACLES	1	20	3	4	20	1	RECEPTACLES		0.7			
		0.5	RECEPTACLES	1	20	5	6	20	1	RECEPTACLES			0.5		
0.7			RECEPTACLES	1	20	7	8	20	1	RECEPTACLES		0.7			
			SPARE	1	20	9	10	20	1	RECEPTACLES			0.5		
			SPARE	1	20	11	12	20	1	RECEPTACLES			0.7		
			SPARE	1	20	13	14	20	1	RECEPTACLES		0.5			
	0.7		RECEPTACLES	1	20	15	16	20	1	RECEPTACLES		0.7			
		0.5	RECEPTACLES	1	20	17	18	20	1	RECEPTACLES			0.5		
0.7			RECEPTACLES	1	20	19	20	20	1	RECEPTACLES		0.7			
	0.5		RECEPTACLES	1	20	21	22	20	1	RECEPTACLES			0.5		
		0.7	RECEPTACLES	1	20	23	24	20	1	RECEPTACLES			0.7		
0.5			RECEPTACLES	1	20	25	26	20	1	RECEPTACLES			0.7		
	0.7		RECEPTACLES	1	20	27	28	20	1	RECEPTACLES			0.5		
		0.7	RECEPTACLES	1	20	29	30	20	1	RECEPTACLES			0.5		
0.5			RECEPTACLES	1	20	31	32	20	1	RECEPTACLES		0.5			
	0.7		RECEPTACLES	1	20	33	34	20	1	RECEPTACLES			0.7		
		0.7	RECEPTACLES	1	20	35	36	20	1	RECEPTACLES			0.7		
0.7			RECEPTACLES	1	20	37	38	40	2	SPARE					
	0.5		RECEPTACLES	1	20	39	40		-						
		0.5	RECEPTACLES	1	20	41	42	20	1	IONIZATION AHU-3			0.6		
0.5			RECEPTACLES	1	20	43	44	35	2	SPARE					
	0.7		RECEPTACLES	1	20	45	46		-						
		0.9	RECEPTACLES	1	20	47	48	20	1	RECEPTACLES			0.4		
0.4			RECEPTACLES	1	20	49	50	20	1	RECEPTACLES		0.5			
	0.4		RECEPTACLES	1	20	51	52	20	1	RECEPTACLES			0.7		
		1.8	REFRIGERATOR	1	20	53	54	20	1	RECEPTACLES			0.9		
1.8			REFRIGERATOR	1	20	55	56	20	1	RECEPTACLES		0.5			
	1.8		RANGE	2	40	57	58	20	1	SPARE					

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PANELBOARD SCHEDULE											4NHDA			
BUS KVA			LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	BUS KVA			
A	B	C									A	B	C	
4.8				-		1	2	-			31.3			
	2.9		PANEL 4NHA'	3	100	3	4	225	3	PANEL 4MHA'		29.3		
		0.6				5	6	-					28.3	
16.12				-		7	8	-			16.6			
	16.55		PANEL 4NLA' VIA 4NTA' (3)	3	125	9	10	125	3	PANEL 4DLA' VIA 4DTA' (3)		13.5		
		14.8			-		11	12	-				12.6	
				-		13	14	-						
	-		SPACE	3	-	15	16	-	3	SPACE		-		
	-	-		-		17	18	-				-		
	-	-		-		19	20	-				-		
	-	-	SPACE	3	-	21	22	-	3	SPACE		-		
	-	-		-		23	24	-				-		
	-	-		-		25	26	-				-		
	-	-	SPACE	3	-	27	28	-	3	SPACE		-		
	-	-		-		29	30	-				-		
	-	-		-		31	32	-				-		
	-	-	SPACE	3	-	33	34	-	3	SPACE		-		
	-	-		-		35	36	-				-		
-	-		-		37	38	-				0			
-	-	SPACE	3	-	39	40	30	3	SPD-2		0			
-	-		-		41	42	-					0		
RATED VOLTAGE: 480/277V				3 PHASE, 4 WIRE				FEED IS TO BE () BOTTOM (X) TOP FROM				4NMDP		
RATINGS IS TO BE 400				AMPS				GROUND BAR IS REQUIRED						
MAIN PROTECTION: 400 AMP MAIN BREAKER								NEUTRAL BUS IS TO BE (X) FULL () DOUBLE SIZE						
BRANCH POLES: 42								HINGED DOOR WITH KEYPED LATCH (X) IS () IS NOT REQUIRED						
PANELBOARD IS TO BE () FUSED (X) BOLT IN CB TYPE								HARD WIRED SURGE PROTECTION (X) IS () IS NOT REQUIRED						
ALL BREAKERS RATED: 42,000 AMPS, SYM RMS				NEMA 1										
I = $\frac{187370 \text{ VA}}{480^{\circ} \sqrt{3}}$ = 225.4 A											CONNECTED LOAD: 187 KVA			
											SPARE			

PANELBOARD SCHEDULE													4NHA		
BUS KVA			LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	BUS KVA				
A	B	C									A	B	C		
2			LIGHTING	1	20	1	2	20	1	LIGHTING	2				
	0.3		LIGHTING	1	20	3	4	20	1	LIGHTING		0.2			
			SPARE	1	20	5	6	20	1	LIGHTING			0.3		
			SPARE	1	20	7	8	20	1	LIGHTING CORRIDOR	0.4				
			SPARE	1	20	9	10	20	1	LIGHTING CORRIDOR		1.1			
			SPARE	1	20	11	12	20	1	SPARE					
			SPARE	1	20	13	14	20	1	SPARE					
			SPARE	1	20	15	16	20	1	LIGHTING		0.2			
			SPARE	1	20	17	18	20	1	LIGHTING			0.3		
			SPARE	1	20	19	20	20	1	LIGHTING CORRIDOR	0.4				
			SPARE	1	20	21	22	20	1	LIGHTING CORRIDOR		1.1			
			SPARE	1	20	23	24	20	1	SPARE					
			SPARE	1	20	25	26	20	1	SPARE					
			SPARE	1	20	27	28	20	1	SPARE					
			SPARE	1	20	29	30	20	1	SPARE					
			SPACE			31	32			SPACE					
			SPACE			33	34			SPACE					
			SPACE			35	36			SPACE					
			SPACE			37	38		-			0			
			SPACE			39	40	30	3	SPD-2		0			
			SPACE			41	42						0		
RATED VOLTAGE: 480/277V			3 PHASE, 4 WIRE			FEED IS TO BE () BOTTOM (X) TOP FROM			4NHDA						
RATINGS IS TO BE 100			AMPS			GROUND BAR IS REQUIRED									
MAIN PROTECTION: 100 AMP MAIN BREAKER						NEUTRAL BUS IS TO BE (X) FULL () DOUBLE SIZE									
BRANCH POLES: 42						HINGED DOOR WITH KEYPED LATCH (X) IS () IS NOT REQUIRED									
PANELBOARD IS TO BE () FUSED (X) BOLT IN CB TYPE						HARD WIRED SURGE PROTECTION (X) IS () IS NOT REQUIRED									
ALL BREAKERS RATED: 42,000 AMPS, SYM RMS			NEMA 1												
I = $\frac{8300 \text{ VA}}{480 \times \sqrt{3}}$			= 10.0 A			CONNECTED LOAD: 8 KVA									
						SPARE									

PANELBOARD SCHEDULE													4MHA		
BUS KVA			LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	BUS KVA				
A	B	C									A	B	C		
11				-		1	2	20	1	TB 4-1	1.0				
	11		AHU-4 (15 HP)	3	80	3	4	20	1	TB 4-2		2.0			
		11		-		5	6	20	1	TB 4-3			2.0		
7.3				-		7	8	20	1	TB 4-4	2.0				
	7.3		FTB 4-1 (22KW)	3	40	9	10	20	1	TB 4-5		2.0			
				-		11	12	20	1	TB 4-6			1.0		
				-		13	14	20	1	TB 4-7	2.0				
			SPARE	3	15	15	16	20	1	TB 4-8		2.0			
				-		17	18	20	1	TB 4-9			2.0		
2			TB 4-16	1	20	19	20	20	1	TB 4-10	2.0				
	2		TB 4-17	1	20	21	22	20	1	TB 4-11		1.0			
		1	TB 4-18	1	20	23	24	20	1	TB 4-12			2.0		
2			TB 4-19	1	20	25	26	20	1	TB 4-13	2.0				
			SPARE	1	20	27	28	20	1	TB 4-14		2.0			
			SPARE	1	20	29	30	20	1	TB 4-15			2.0		
			SPARE	1	20	31	32	20	1	SPARE					
			SPARE	1	20	33	34	20	1	SPARE					
			SPARE	1	20	35	36	20	1	SPARE					
			SPACE			37	38					0			
			SPACE			39	40	30	3	SPD-2			0		
			SPACE			41	42		-				0		
RATED VOLTAGE: 480/277V			3 PHASE, 4 WIRE			FEED IS TO BE () BOTTOM (X) TOP FROM					4NHDA				
RATINGS IS TO BE 400			AMPS			GROUND BAR IS REQUIRED									
MAIN PROTECTION: 225 AMP MAIN BREAKER						NEUTRAL BUS IS TO BE () FULL (X) DOUBLE SIZE									
BRANCH POLES: 42						HINGED DOOR WITH KEYPED LATCH (X) IS () IS NOT REQUIRED									
PANELBOARD IS TO BE () FUSED (X) BOLT IN CB TYPE						HARD WIRED SURGE PROTECTION (X) IS () IS NOT REQUIRED									
ALL BREAKERS RATED:			42,000 AMPS, SYM RMS			NEMA 1									
I = $\frac{88900 \text{ VA}}{480 \times \sqrt{3}}$			= 106.9 A			CONNECTED LOAD: 89 KVA									
						SPARE									

PANELBOARD SCHEDULE													4NLA		
BUS KVA			LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	BUS KVA				
A	B	C									A	B	C		
0.5			RECEPTACLES	1	20	1	2	20	1	RECEPTACLES	0.5				
	0.7		RECEPTACLES	1	20	3	4	20	1	RECEPTACLES		0.7			
		0.5	RECEPTACLES	1	20	5	6	20	1	RECEPTACLES			0.5		
0.7			RECEPTACLES	1	20	7	8	20	1	RECEPTACLES	0.7				
	0.5		RECEPTACLES	1	20	9	10	20	1	RECEPTACLES		0.5			
		0.7	RECEPTACLES	1	20	11	12	20	1	RECEPTACLES			0.7		
0.5			RECEPTACLES	1	20	13	14	20	1	RECEPTACLES	0.5				
	0.7		RECEPTACLES	1	20	15	16	20	1	RECEPTACLES		0.7			
		0.5	RECEPTACLES	1	20	17	18	20	1	RECEPTACLES			0.5		
0.7			RECEPTACLES	1	20	19	20	20	1	RECEPTACLES	0.7				
	0.5		RECEPTACLES	1	20	21	22	20	1	RECEPTACLES		0.5			
		0.7	RECEPTACLES	1	20	23	24	20	1	RECEPTACLES			0.7		
0.5			RECEPTACLES	1	20	25	26	20	1	RECEPTACLES	0.5				
	0.7		RECEPTACLES	1	20	27	28	20	1	RECEPTACLES		0.7			
		0.5	RECEPTACLES	1	20	29	30	20	1	RECEPTACLES			0.5		
0.5			RECEPTACLES	1	20	31	32	20	1	RECEPTACLES	0.5				
	0.7		RECEPTACLES	1	20	33	34	20	1	REFRIGERATOR		1.2			
		0.7	RECEPTACLES	1	20	35	36	20	1	DISHWASHER			1.2		
0.7			RECEPTACLES	1	20	37	38	40	2	RANGE	1.8				
	0.5		RECEPTACLES	1	20	39	40	-				1.8			
		0.5	RECEPTACLES	1	20	41	42	20	1	WASHER			1.2		
0.5			RECEPTACLES	1	20	43	44	35	2	DRYER	2.8				
	0.7		RECEPTACLES	1	20	45	46	-				2.8			
		0.9	RECEPTACLES	1	20	47	48	-	1	RECEPTACLES			0.4		
1.12			HAND DRYERS, REC.	1	20	49	50	20	1	RECEPTACLES	0.5				
	0.4		RECEPTACLES	1	20	51	52	20	1	RECEPTACLES		0.7			
		1.8	REFRIGERATOR	1	20	53	54	20	1	RECEPTACLES			0.9		
0.6			IONIZATION AHU-4	1	20	55	56	20	1	RECEPTACLES	0.5				
			SPARE	1	20	57	58	20	1	HOOD		0.7			
			SPARE	1	20	59	60	20	1	EF4-1 (1/AHP)			0.6		
			SPARE	1	20	61	62	20	1	EF4-2 (1/AHP)	0.6				
			SPARE	1	20	63	64	20	1	RECEPTACLES		0.9			
			SPARE	1	20	65	66	20	1	SPARE					
			SPARE	1	20	67	68	20	1	SPARE					
			SPARE	1	20	69	70	20	1	SPARE					
			SPARE	1	20	71	72	20	1	SPARE					
			SPARE	1	20	73	74	20	1	SPARE					
			SPARE	1	20	75	76	20	1	SPARE					
			SPARE	1	20	77	78	20	1	SPARE					
			SPARE	1	20	79	80	-			0				
0.15			EF 4-3	1	20	81	82	30	3	SPD-2		0			
	0.6		MECH. DAMPERS	1	20	83	84	-					0		
RATED VOLTAGE: 120/208V			3 PHASE, 4 WIRE			FEED IS TO BE () BOTTOM (X) TOP FROM					4N1A				
RATINGS IS TO BE 400			AMPS			GROUND BAR IS REQUIRED									
MAIN PROTECTION: 250 AMP MAIN BREAKER								NEUTRAL BUS IS TO BE (X) FULL () DOUBLE SIZE							
BRANCH POLES: 84								HINGED DOOR WITH KEYS LATCH (X) IS () IS NOT REQUIRED							
PANELBOARD IS TO BE () FUSED (X) BOLT IN C TYPE								HARD WIRED SURGE PROTECTION (X) IS () IS NOT REQUIRED							
ALL BREAKERS RATED: 42, 60 AMPS, 5YM RMS								NEMA 1							
													CONNECTED LOAD: 47 KVA		
I = $\frac{47470 \text{ VA}}{208^2 \sqrt{3}}$			= 131.8 A												

A horizontal number line with tick marks at 0, 1, and 2.

[illegible]

7 1 0 1

6NHDA	6NLA	6DLA
6NHA	6EHA	6QLA
6MHA		

PANELBOARD SCHEDULE										"7NLDK"			
BUS KVA			LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	BUS KVA		
A	B	C									A	B	C
54.212				-	1	2		-			14.03		
	54.612		PANEL 7N1LK	3	400	3	4	225	3	PANEL '7N1LK1'		14.63	
		53.512		-	5	6		-					12.5
				-	8	-		-					
			SPARE	3	100	9	10	100	3	SPARE			
				-	11	12		-					
					13	14							
					15	16							
					17	18							
					19	20							
					21	22							
					23	24							
					25	26							
					27	28							
					29	30							
					31	32							
					33	34							
					35	36							
					37	38	-	-	-		0		
					39	40	30	3	SPD-2			0	
					41	42	-	-	-				0
RATED VOLTAGE: 120/208V			3 PHASE, 4 WIRE			FEED IS TO BE () BOTTOM (X) TOP FROM					MIDP VIA 7N1K		
RATINGS IS TO BE 800			AMPS			GROUND BAR IS REQUIRED							
MAIN PROTECTION: 500 AMP MAIN BREAKER						NEUTRAL BUS IS TO BE (X) FULL () DOUBLE SIZE							
BRANCH POLES: 42						HINGED DOOR WITH KEYS LATCH (X) IS () NOT REQUIRED							
PANELBOARD IS TO BE () FUSED (X) BOLT IN CB TYPE						HARD WIRED SURGE PROTECTION (X) IS () NOT REQUIRED							
ALL BREAKERS RATED:			10,000 AMPS, SYM RMS			NEMA 1							
CONNECTED LOAD: 203 KVA (REFER TO KITCHEN SUBPANELS) DEMAND LOAD: 114.7 KVA													
I = $\frac{114,722VA}{208^* \sqrt{3}}$ = 318.4 A													

PANELBOARD SCHEDULE										7NHA'			
BUS KVA			LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	BUS KVA		
A	B	C									A	B	C
0.7			LIGHTING	1	20	1	2	20	1	LIGHTING	0.4		
	0.8		LIGHTING	1	20	3	4	20	1	LIGHTING		1.4	
		0.7	LIGHTING	1	20	5	6	20	1	LIGHTING			0.7
0.4			LIGHTING	1	20	7	8	20	1	SPARE			
	0.9		DISPLAY CASE	1	20	9	10	20	1	SPARE			
			SPARE	1	20	11	12	20	1	LIGHTING CORRIDOR			0.1
			SPARE	1	20	13	14	20	1	LIGHTING EXTERIOR	0.3		
			SPARE	1	20	15	16	20	1	LIGHTING EXIT		0.2	
			SPARE	1	20	17	18	20	1	SPARE			
			SPARE	1	20	19	20	20	1	SPARE			
			SPARE	1	20	21	22	20	1	SPARE			
			SPARE	1	20	23	24	20	1	SPARE			
			SPARE	1	20	25	26	20	1	SPARE			
			SPARE	1	20	27	28	20	1	SPARE			
			SPARE	1	20	29	30	20	1	SPARE			
			SPACE			31	32			SPACE			
			SPACE			33	34			SPACE			
			SPACE			35	36						
			SPACE			37	38		-		0		
			SPACE			39	40	30	3	SPD-2		0	
			SPACE			41	42		-				0
RATED VOLTAGE: 480/277V				3 PHASE, 4 WIRE				FEED IS TO BE () BOTTOM (X) TOP FROM				'MDP'	
RATINGS IS TO BE 100				AMPS				GROUND BAR IS REQUIRED					
MAIN PROTECTION: 100 AMP MAIN BREAKER								NEUTRAL BUS IS TO BE (X) FULL () DOUBLE SIZE					
BRANCH POLES 42								HINGED DOOR WITH KEYS LATCH (X) IS () IS NOT REQUIRED					
PANELBOARD IS TO BE () FUSED (X) BOLT IN CB TYPE								HARD WIRED SURGE PROTECTION (X) IS () IS NOT REQUIRED					
ALL BREAKERS RATED: 42,000 AMPS, SYM RMS								NEMA 1					
										CONNECTED LOAD:		7 KVA	
I = $\frac{6600 \text{ VA}}{480 \times \sqrt{3}}$				= 7.9 A									

PANELBOARD SCHEDULE										`7EHA`			
BUS KVA			LOAD	POLES	TRIP	LOAD	TRIP	POLES	LOAD	BUS KVA			
A	B	C								A	B	C	
0.7			LIGHTING	1	20	1	2	20	1	LIGHTING	1		
	0.4		LIGHTING	1	20	3	4	20	1	LIGHTING		0.2	
		0.1	LIGHTING	1	20	5	6	20	1	LIGHTING CORRIDOR			
0.2			LIGHTING	1	20	7	8	20	1	LIGHTING SECURITY	0.3	0.1	
			SPARE	1	20	9	10	20	1	SPARE			
			SPARE	1	20	11	12	20	1	SPARE			
			SPARE	1	20	13	14	20	1	SPARE			
			SPARE	1	20	15	16	20	1	SPARE			
			SPARE	1	20	17	18	20	1	SPARE			
			SPARE	1	20	19	20	20	1	SPARE			
			SPARE	1	20	21	22	20	1	SPARE			
			SPARE	1	20	23	24	20	1	SPARE			
			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	-			0		
			SPACE			39	40	30	3	SPD-2		0	
			SPACE			41	42	-				0	
RATED VOLTAGE: 480/277V				3 PHASE, 4 WIRE				FEED IS TO BE () BOTTOM (X) TOP FROM				`EMDP`	
RATINGS IS TO BE 100				AMPS				GROUND BAR IS REQUIRED					
MAIN PROTECTION: 100 AMP MAIN BREAKER								NEUTRAL BUS IS TO BE (X) FULL () DOUBLE SIZE					
BRANCH POLES: 42								HINGED DOOR WIRELESS LATCH (X) IS () NOT REQUIRED					
PANELBOARD IS TO BE () FUSED (X) BOLT IN CB TYPE								HARD WIRED SURGE PROTECTION (X) IS () NOT REQUIRED					
ALL BREAKERS RATED: 18,000 AMPS, SYM RMS								NEMA 1					
										CONNECTED LOAD: 3 KVA			
I = $\frac{3000 \text{ VA}}{480 \times \sqrt{3}}$ = 3.6 A													

PANELBOARD SCHEDULE											`7DLA`		
BUS KVA			LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	BUS KVA		
A	B	C									A	B	C
0.4			RECEPTACLES	1	20	1	2	20	1	RECEPTACLES	0.7		
	0.4		RECEPTACLES	1	20	3	4	20	1	RECEPTACLES		0.4	
		0.4	RECEPTACLES	1	20	5	6	20	1	RECEPTACLES			0.4
0.4			RECEPTACLES	1	20	7	8	20	1	RECEPTACLES	0.2		
	0.5		RECEPTACLES	1	20	9	10	20	1	RECEPTACLES		0.4	
		0.4	RECEPTACLES	1	20	11	12	20	1	RECEPTACLES			0.4
0.7			RECEPTACLES	1	20	13	14	20	1	RECEPTACLES	0.5		
	0.4		RECEPTACLES	1	20	15	16	20	1	RECEPTACLES		0.5	
		0.4	RECEPTACLES	1	20	17	18	20	1	RECEPTACLES			0.4
0.7			RECEPTACLES	1	20	19	20	20	1	RECEPTACLES	0.5		
	1.8		MICROWAVE	1	20	21	22	20	1	RECEPTACLES		0.5	
		1.8	REFRIGERATOR	1	20	23	24	20	1	RECEPTACLES			0.7
0.9			RECEPTACLES	1	20	25	26	20	1	RECEPTACLES	0.2		
	0.7		RECEPTACLES	1	20	27	28	20	1	RECEPTACLES		0.2	
		1.5	WH-A (1.5KW)	1	20	29	30	-	-	-	5		
0.6			GAS WH-E CONTROLS	1	20	31	32	60	3	KILN	5		
	0.6		GAS WH-E CONTROLS	1	20	33	34	-	-	-		5	
		0.7	CIRC. PUMP (1/4HP)	1	20	35	36	20	1	SPARE			
0.2			LIGHT. DRESS RM 703B	1	20	37	38	20	1	RECEPTACLES	0.4		
	0.2		LIGHT. DRESS RM 703C	1	20	39	40	20	1	RECEPTACLES		0.4	
		0.2	STAGE EDGE LIGHT	1	20	41	42	20	1	RECEPTACLES			0.5
0.6			TRACK LIGHT	1	20	43	44	20	1	RECEPTACLES	0.5		
	0.6		TRACK LIGHT	1	20	45	46	20	1	RECEPTACLES		0.5	
		0.6	TRACK LIGHT	1	20	47	48	20	1	RECEPTACLES			0.4
0.6			TRACK LIGHT	1	20	49	50	20	1	RECEPTACLES	0.2		
	0.6		TRACK LIGHT	1	20	51	52	20	2	POTTERY WHEEL		1	
		0.6	TRACK LIGHT	1	20	53	54	-	-	-			1
			SPARE	1	20	55	56	20	2	POTTERY WHEEL	1		
			SPARE	1	20	57	58	-	-	-		1	
			SPARE	1	20	59	60	-	-	-			0.5
0.9			COMP. RECEPT.	1	20	61	62	20	1	RECEPTACLES	0.5		
	0.7		COMP. RECEPT.	1	20	63	64	20	1	RECEPTACLES		0.7	
		0.5	COMP. RECEPT.	1	20	65	66	20	1	RECEPTACLES			0.5
			COMP. RECEPT.	1	20	67	68	20	1	RECEPTACLES		0.5	
0.5			COMP. RECEPT.	1	100	69	70	20	1	RECEPTACLES			0.7
	0.7		COMP. RECEPT.	1	50	71	72	20	1	RECEPTACLES			0.7
			SPARE	1	20	73	74	20	1	RECEPTACLES	0.5		
	1.2		LOCAL SOUND SYS.	1	20	75	76	20	1	RECEPTACLES		0.5	
		0.6	SOUND MIXER	1	20	77	78	20	1	RECEPTACLES			0.4
0.6			LIGHT CONSOLE	1	20	79	80	20	1	RECEPTACLES	0.4		
	0.6		AUDIO RACK	1	20	81	82	20	1	RECEPTACLES		0.2	
			SPARE	1	20	83	84	20	1	RECEPTACLES			0.2

SEE SECOND SECTION															
"7DLA" SECOND SECTION															
0.7			COMP. RECEPT.	1	1	20	85	86	20	1	RECEPTACLES		0.7		
	0.7		COMP. RECEPT.	1	1	20	87	88	20	1	RECEPTACLES			0.5	
		0.7	COMP. RECEPT.	1	1	20	89	90	20	1	RECEPTACLES				0.4
0.6			IONIZATION AHU-7A	1	1	20	91	92	20	1	RECEPTACLES		0.4		
	0.6		IONIZATION AHU-7B	1	1	20	93	94	20	1	SPARE				
			SPARE	1	1	20	95	96	20	1	EF8A-2 / EF8A-3				0.256
0.7			COMP. RECEPT.	1	1	20	97	98	20	1	EF8A-1 (1/10HP)		0.1		
	0.7		COMP. RECEPT.	1	1	20	99	100	20	1	SPARE				
		0.7	COMP. RECEPT.	1	1	20	101	102	20	1	EF7B-5		0.71		
0.7			COMP. RECEPT.	1	1	20	103	104	20	1	SPARE				
	0.7		COMP. RECEPT.	1	1	20	105	106	20	1	MOTORIZED GATE #1				1.2
		0.7	COMP. RECEPT.	1	1	20	107	108	20	1	SPARE				
				-			109	110	20	1	SPARE				
			SPARE	3	25	111	112	20	1	SPARE					
				-			113	114	20	1	SPARE				
1.2			EQUIPMENT	1	1	20	115	116	20	1	SPARE				
	1.2		EQUIPMENT	1	1	20	117	118	20	1	SPARE				
		1.2	EQUIPMENT	1	1	20	119	120	20	1	SPARE				
1.2			EQUIPMENT	1	1	20	121	122	-	-	-		0		
			SPACE	1	1	20	123	124	30	3	SPD-2			0	
			SPACE	1	1	20	125	126	-	-	-				0
RATED VOLTAGE: 120/208V				3 PHASE, 4 WIRE				FEED IS TO BE () BOTTOM () TOP FROM				"7DLA"			
400				AMPS				GROUND BUS IS REQUIRED							
MAIN PROTECTION: 250 AMP MAIN BREAKER								NEUTRAL BUS IS TO BE () FULL (X) DOUBLE SIZE							
BRANCH PROCS: 84								HINGED DOOR WITH KEYS LATCH (X) IS () IS NOT REQUIRED							
PANELBOARD IS TO BE () FUSED (X) BOLT IN CB TYPE								HARD WIRE SURGE PROTECTION (X) IS () IS NOT REQUIRED							
ALL BREAKERS RATED:				42,000 AMPS, SYM RMS				NEMA 1							
CONNECTED LOAD: 76 kVA															
I = $\frac{75766 \text{ VA}}{208^* \text{ V3}}$ = 210.3 A															

PANELBOARD SCHEDULE											`7MHA`		
BUS KVA			LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	BUS KVA		
A	B	C									A	B	C
3.8			-	-	1	2	20	1		TB 7A-1	2.0		
	3.8		AHU-8A (10 HP)	3	25	3	4	20	1	RF 8A-1 (3/4 HP)		1.1	
		3.8		-	-	5	6	20	1	SPARE			-
3.8				-	-	7	8	-			2		
	3.8		AHU-7B (10 HP)	3	25	9	10	30	3	TB 7A-2		2	
		3.8		-	-	11	12	-					2
4				-	-	13	14	-			2		
	4		FTB 8A-1 (12KW)	3	25	15	16	30	3	TB 7A-3		2	
		4		-	-	17	18	-					2
3.3333				-	-	19	20	-			2		
	3.3333		DH 7B-1 (10KW)	3	30	21	22	30	3	TB 7A-4			
		3.3333		-	-	23	24	-				2	2
6.6667			DH 7B-2 (20KW)	3	35	27	28	30	3	TB 7A-5		2	
		6.6667		-	-	29	30	-					2
				-	-	31	32	-			2		
			SPARE	3	15	33	34	30	3	TB 7A-7		2	
				-	-	35	36	-					2
				-	-	37	38	20	1	TB 7A-6		3	
			SPARE	3	15	39	40	20	1	SPARE			
				-	-	41	42	20	1	SPARE			
3				-	-	43	44	-			0		
	3		AHU-8C (7.5 HP)	3	20	45	46	30	3	SPARE		0	
		3		-	-	47	48	-					0
5				-	-	49	50	-			0		
	5		DH 8C-1 (15KW)	3	30	51	52	20	3	SPARE		0	
		5		-	-	53	54	-				0	0
5				-	-	55	56						
	5		DH 8C-2 (15KW)	3	30	57	58			SPACE			
		5		-	-	59	60						
				-	-	61	62						
			SPARE	3	30	63	64			SPACE			
				-	-	65	66						
						67	68						
			SPACE			69	70			SPACE			
						71	72						
						73	74						
			SPACE			75	76			SPACE			
						77	78						
						79	80	-	-	-		0	
			SPACE			81	82	30	3	SPD-2			0
						83	84	-	-	-			0
RATED VOLTAGE: 480/277V		225		3 PHASE, 4 WIRE		AMP		FEED IS TO BE () BOTTOM (X) TOP FROM GROUND BAR IS REQUIRED				`MDP`	
MAIN PROTECTION: 825 AMP MAIN BREAKER		225		BRANCH POLES: 825 AMP				NEUTRAL BUS IS TO BE () FULL (X) DOUBLE SIZE					
PANELBOARD IS TO BE () FUSED (X) BOLT IN CB TYPE								HINGED DOOR WITH KEYS LATCH (X) IS () IS NOT REQUIRED					
ALL BREAKERS RATED: 42,000 AMPS, SYM RMS								HARD WIRED SURGE PROTECTION (X) IS () IS NOT REQUIRED					
								NEVA 1					
CONNECTED LOAD:											140 KVA		
I =		139900 VA		=		168.3		A					
		480* V3											

TYPICAL BRANCH CIRCUIT WIRE AND CONDUIT SCHEDULE

BREAKER TRIP	CONDUCTOR AWG	GROUND AWG	CONDUIT
20A	12	12	3/4" C
25A	10	10	3/4" C
30A	10	10	3/4" C
35A	8	10	1" C
40A	8	10	1" C
45A	8	10	1" C
50A	8	10	1" C
60A	6	8	1-1/4" C
70A	4	8	1-1/4" C
80A	4	8	1-1/4" C
90A	3	8	1-1/2" C
100A	3	8	1-1/2" C

1. CONTRACTOR TO ADJUST SIZES PER FIELD INSTALLED LENGTHS TO MAINTAIN A MAXIMUM VOLTAGE DROP OF 3%.
2. PROVIDE CONDUCTORS PER BREAKER POLES; INCLUDE NEUTRAL FOR ALL 1PH AND 3PH LOADS AS REQUIRED.

GENERAL PANELBOARD NOTE
LOCATION MUST BE SHOWN IN PANEL SCHEDULE
LOAD DESCRIPTION BY THE CONTRACTOR

- 1 BREAKER SHALL HAVE GFI PROTECTION
PER NEC 422.52
- 2 BREAKER SHALL HAVE GFI PROTECTION
CONNECT WATER COOLER VIA LOCAL
120V COUNTER, RATED FOR
COMBINED CURRENT, WITH 24V
INPUT FROM BMS SYSTEM. ELECTRICIAN
TO PROVIDE CONTACTOR AND
ASSOCIATED CONDUIT.
- 3 PROVIDE BREAKER WITH LOCK-OUT
HARDWARE AND APPLY LABELING AT
ASSOCIATED TRANSFORMER INDICATING
LOCATION AND EQUIPMENT TAG OF
UPSTREAM DISCONNECT MEANS PER
NEC 450.14.

7NLDK	7DLA	7MHA
7NHA		
7EHA		

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PANELBOARD SCHEDULE													7N1LK	
BUS KVA			LOAD	POLES	TRIP	LOAD	TRIP	POLES	LOAD	BUS KVA				
A	B	C								A	B	C		
1.2			AIR CURTAIN (E3)	1	20	1	2	20	1	ROLL-UP DOOR				
	1.6		ICE MAKER (E5)	1	20	3	4	20	1	ROLL-UP DOOR		1.2		
		0.936		-		5	6	-					1.32	
0.936			EF 7B-1A (2 HP) (E25-1)	3	15	7	8	20	3	SF 7B-1 (3 HP)	1.32			
		0.936		-		9	10	-				1.32		
		0.936		-		11	12	-					0.8	
0.936			EF 7B-1B (2 HP) (E25-2)	3	15	13	14	15	3	DISPOSER (E14)	0.8			
		0.936		-		15	16	-				0.8		
		1.2	WORK TABLE (E18)	1	20	17	18	-					12	
1.2			POWER CORD DROP (E22)	1	20	19	20	100	3	UDS (E26)	12			
	0.6		EXHAUST HOOD (E24)	1	20	21	22	-				12		
	1.9		WARMING CABINET (E71-4)	1	20	23	24	-					6.7	
1.9			WARMING CABINET (E71-3)	1	20	25	26	70	3	WARE WASHER (E67-1)	6.7			
	1.9		WARMING CABINET (E71-2)	1	20	27	28	-					6.7	
	1.9		WARMING CABINET (E71-1)	1	20	29	30	2	SPACE					
1.9			WARMING CABINET (E78)	1	20	31	32	-						
	1.4		HEATED CABINET (E43)	1	20	33	34	2	SPACE					
		1.2	POWER CORD DROP (E45)	1	20	35	36	-						
1			MIXER (E47)	1	20	37	38	-				1.32		
	2		DRYER (E57)	2	30	39	40	20	3	DISPOSER (E61)	1.32			
		2		-		41	42	-					1.32	
1.2			WASHER (E58)	1	20	43	44	-				1.3		
	1.9		WARMING CABINET (E71-4)	1	20	45	46	20	3	DISPOSER (E66)	1.3			
		1.9	WARMING CABINET (E71-3)	1	20	47	48	-					1.3	
1.9			WARMING CABINET (E71-2)	1	20	49	50	-			10			
	1.9		WARMING CABINET (E71-1)	1	20	51	52	110	3	WARE WASHER (E67-2)	10			
		1.9	WARMING CABINET (E78)	1	20	53	54	-				10		
1.2			FIRE SUPPRESSION	1	20	55	56	-			3.1			
	0.6		CONTROL POWER	1	20	57	58	30	3	HOOD COND.		3.1		
			SPARE	1	20	59	60	-					3.1	
			SPARE	1	20	61	62	-			3.1			
			SPARE	1	20	63	64	30	3	HOOD COND.		3.1		
			SPARE	1	20	65	66	-					3.1	
			SPARE	1	20	67	68	-						
			SPARE	1	20	69	70	40	3	MAKE-UP AIR PUMP				
			SPARE	1	20	71	72	-						
			SPARE	1	20	73	74	-						
			SPARE	1	20	75	76	40	3	MAKE-UP AIR PUMP				
			SPARE	1	20	77	78	-						
			SPARE	1	20	79	80	-				0		
	-		SPARE	1	20	81	82	30	3	SPD-2		0		
	-		SPARE	1	20	83	84	-					0	
RATED VOLTAGE: 120/208V			3 PHASE, 4 WIRE		FEED IS TO BE () TOP FROM		(X) BOTTOM		7N1LK					
RATINGS IS TO BE 400			AMPS		GROUND BAR IS REQUIRED									
MAIN PROTECTION: 400 AMP MAIN BREAKER					NEUTRAL BUS IS TO BE (X) FULL () DOUBLE SIZE									
BRANCH POLES: 84					HINGED DOOR WITH KEYED LATCH (X) IS () IS NOT REQUIRED									
PANELBOARD IS TO BE () FUSED (X) BOLT IN CB TYPE					HARD WIRED SURGE PROTECTION (X) IS () IS NOT REQUIRED									
ALL BREAKERS RATED: 42,000 AMPS, SYM RMS					NEMA 3R RECESSED INTO WALL									
I = 105518.4 VA			= 292.9		A		CONNECTED LOAD: 162 kVA							
208* V3							DEMAND LOAD NEC 220.56: 105.52 kVA							

PANELBOARD SCHEDULE													7N1LK1				
BUS KVA			LOAD		POLES		TRIP		LOAD		POLES		LOAD		BUS KVA		
A	B	C															
1.07			SELF SERVE CASE (E80-1)	2	20	1	2	20	2	HOT WELLS (E87-1)			0.9				
	1.07			-		3	4		-						0.9		
	1.07		SELF SERVE CASE (E80-2)	2	20	5	6	20	2	HOT DISPLAY CASE (E88)						0.9	
1.07				-		7	8		-						0.9		
	1.07		SELF SERVE CASE (E80-3)	2	20	9	10	20	2	HOT WELLS (E87-2)					0.67		
		1.07		-		11	12		-							0.67	
2			HOT DISPLAY CASE (E81)	2	25	13	14	20	2	HOT DISPLAY CASE (E94)	0.9						
	2			-		15	16		-						0.9		
		0.9	HEATED SHELF (E100)	2	20	17	18	20	2	HOT WELLS (E98)						0.67	
0.9				-		19	20		-						0.67		
	1.2		SERVING COUNTER (E82)	1	20	21	22	20	1	POS TERMINAL (E84-1)					1.2		
		1.2	SERVING COUNTER (E85)	1	20	23	24	20	1	POS TERMINAL (E84-2)						1.2	
1.2			SPARE	1	20	25	26	20	1	POS TERMINAL (E84-3)	1.2						
	1.2		SERVING COUNTER (E95)	1	20	27	28	20	1	POS TERMINAL (E84-4)					1.2		
		1.2	SERVING COUNTER (E96)	1	20	29	30	20	1	SNEEZEGUARD (E86-1)						0.42	
1.2			CARD ACCESS (E83-1 AND 2)	1	20	31	32	20	1	SNEEZEGUARD (E86-2)	0.42						
	1.2		CARD ACCESS (E83-3 AND 4)	1	20	33	34	20	1	SNEEZEGUARD (E97)					0.42		
			SPARE	1	20	35	36	20	1	SPARE							
			SPARE	1	20	37	38	20	1	SPARE							
			SPARE	1	20	39	40	20	1	SPARE							
			SPARE	1	20	41	42	20	1	SPARE							
			SPARE	1	20	43	44	20	1	SPARE							
			SPARE	1	20	45	46	20	1	SPARE							
			SPARE	1	20	47	48	20	1	SPARE							
			SPARE	1	20	49	50	20	1	SPARE							
			SPARE	1	20	51	52	20	1	SPARE							
		1.6	FUTURE EQUIP. (E18A-1)	2	35	53	54	20	1	SPARE							
				-		55	56		-								
1.6				2	35	57	58	30	3	SPD-2							
	1.6			-		59	60		-								
		1.6	FUTURE EQUIP. (E18A-2)	2	35	57	58	30	3	SPD-2							
				-		59	60		-								
RATED VOLTAGE: 120/208V				3 PHASE, 4 WIRE				FEED IS TO BE () BOTTOM (X) TOP FROM				7N1LK1					
RATINGS IS TO BE 225				AMPS				GROUND BAR IS REQUIRED									
MAIN PROTECTION: 225 AMP MAIN BREAKER								NEUTRAL BUS IS TO BE (X) FULL () DOUBLE SIZE									
BRANCH POLES: 60								HINGED DOOR WITH KEYS LATCH (X) IS () IS NOT REQUIRED									
PANELBOARD IS TO BE () FUSED (X) BOLT IN CB TYPE								HARD WIRED SURGE PROTECTION (X) IS () IS NOT REQUIRED									
ALL BREAKERS RATED: 42,000 AMPS, SYM RMS								NEMA 3R RECESSED INTO WALL									
I = $\frac{26754 \text{ VA}}{208^* \text{ V3}}$				= 74.3				A				CONNECTED LOAD: 41 kVA					
								DEMAND LOAD NEC 220.56: 26.754 kVA									

PANELBOARD SCHEDULE											7QLK			
BUS KVA			LOAD		POLES	TRIP	LOAD	TRIP	POLES	LOAD	BUS KVA			
A	B	C									A	B	C	
0.9			WALK-IN COOL/FREEZER (E7)	1	20	1	2	25	2	EVAP COIL FREEZER (E10)	1.85			
	0.3		EVAP COIL COOLER (E8)	2	20	3	4	-	-			1.85		
		0.3		-	-	5	6	-	-				3.4	
1.7				-	7	8	40	3	FREEZER COND UNIT (E11)		3.4			
	1.7		COOLER COND. UNIT (E9)	3	25	9	10	-	-			3.4		
		1.7		-	11	12	20	1	FREEZER HEAT TR.		0.6			
1.3			PASS-THRU REFRIG (E72-2)	1	20	13	14	20	1	COOLER HEAT TR.			0.6	
	1.3		PASS-THRU REFRIG (E72-1)	1	20	15	16	20	1	COOL. FREEZ. LIGHT			0.6	
		1	REFRIGERATOR (E76)	1	20	17	18	20	1	SPARE				
1.8			REFRIGERATOR (E99)	1	25	19	20	20	1	SPARE				
			SPARE	1	20	21	22	20	1	SPARE				
			SPARE	1	20	23	24	20	1	SPARE				
			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	-			0			
			SPACE			39	40	30	3	SPD-2		0		
			SPACE			41	42	-					0	
RATED VOLTAGE: 120/208V				3 PHASE, 4 WIRE				FEED IS TO BE () BOTTOM (X) TOP FROM				7QTA		
RATINGS IS TO BE				AMPS				NEUTRAL BUS IS TO BE (X) FULL () DOUBLE SIZE						
MINIMUM PROTECTION:				100 AMP MAIN BREAKER				HINGED DOOR WITH KEYPAD LATCH (X) IS () IS NOT REQUIRED						
BRANCH POLES:				42				HARD WIRED SURGE PROTECTION (X) IS () IS NOT REQUIRED						
ALL BREAKERS RATED:				10,000 AMPS, SYM RMS				NEMA 3R						
								RECESSED INTO WALL						
								CONNECTED LOAD:				28 KVA		
I =				27700 VA								= 76.9 A		
				208* V3										

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PANELBOARD SCHEDULE												'9NHDA'		
BUS KVA			LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	LOAD	BUS KVA		
A	B	C										A	B	C
4.9			-	-	-	1	2	-	-	-	-	34.2		
	2.3		PANEL '9NHA'			3	100	3	4	225	3	PANEL '9MHA'	33.7	
		0.7	-	-	-	5	6	-	-	-	-		32.7	
24.52			-	-	-	7	8	-	-	-	-	22.7		
	20.15		PANEL '9NLA' VIA '9NTA' (3)	3	125	9	10	125	3	PANEL '9DLA' VIA '9DTA' (3)		18.5		
		18.2	-	-	-	11	12	-	-	-	-		17.9	
			-	-	-	13	14	-	-	-	-			
	-	-	SPACE	3	-	15	16	-	3	SPACE		-	-	
			-	-	-	17	18	-	-	-	-			
	-	-	-	-	-	19	20	-	-	-	-			
	-	-	SPACE	3	-	21	22	-	3	SPACE		-	-	
			-	-	-	23	24	-	-	-	-			
	-	-	-	-	-	25	26	-	-	-	-			
	-	-	SPACE	3	-	27	28	-	3	SPACE		-	-	
			-	-	-	29	30	-	-	-	-			
	-	-	-	-	-	31	32	-	-	-	-			
	-	-	SPACE	3	-	33	34	-	3	SPACE		-	-	
			-	-	-	35	36	-	-	-	-			
	-	-	-	-	-	37	38	-	-	-	-	0		
	-	-	SPACE	3	-	39	40	30	3	SPD-2		0		
			-	-	-	41	42	-	-	-	-		0	
RATED VOLTAGE: 480/277V			3 PHASE, 4 WIRE			FEED IS TO BE () BOTTOM (X) TOP FROM			'MDP'					
RATINGS IS TO BE 400			AMPS			GROUND BAR IS REQUIRED								
MAIN PROTECTION: 400 AMP MAIN BREAKER						NEUTRAL BUS IS TO BE (X) FULL () DOUBLE SIZE								
BRANCH POLES: 42						HINGED DOOR WITH KEYPED LATCH (X) IS () IS NOT REQUIRED								
PANELBOARD IS TO BE () FUSED (X) BOLT IN CB TYPE						HARD WIRED SURGE PROTECTION (X) IS () IS NOT REQUIRED								
ALL BREAKERS RATED:			42,000 AMPS, SYM RMS			NEMA 1								
I = 230470 VA			= 277.2 A			CONNECTED LOAD:			230 KVA					
			480" V3											

PANELBOARD SCHEDULE												'9NHA'		
BUS KVA			LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	LOAD	BUS KVA		
A	B	C										A	B	C
2			LIGHTING	1	20	1	2	20	1	LIGHTING		2		
	0.3		LIGHTING	1	20	3	4	20	1	LIGHTING			0.2	
		0.4	LIGHTING	1	20	5	6	20	1	LIGHTING				0.3
0.5			LIGHTING	1	20	7	8	20	1	LIGHTING CORRIDOR		0.4		
		0.7	LIGHTING	1	20	9	10	20	1	LIGHTING EXT. LEARNING		1.1		
			SPARE	1	20	11	12	20	1	SPARE				
			SPARE	1	20	13	14	20	1	SPARE				
			SPARE	1	20	15	16	20	1	SPARE				
			SPARE	1	20	17	18	20	1	SPARE				
			SPARE	1	20	19	20	20	1	SPARE				
			SPARE	1	20	21	22	20	1	SPARE				
			SPARE	1	20	23	24	20	1	SPARE				
			SPARE	1	20	25	26	20	1	SPARE				
			SPARE	1	20	27	28	20	1	SPARE				
			SPARE	1	20	29	30	20	1	SPARE				
			SPACE			31	32			SPACE				
			SPACE			33	34			SPACE				
			SPACE			35	36			SPACE				
			SPACE			37	38			SPACE		0		
			SPACE			39	40	30	3	SPD-2		0		
			SPACE			41	42			SPACE			0	
RATED VOLTAGE: 480/277V			3 PHASE, 4 WIRE			FEED IS TO BE () BOTTOM (X) TOP FROM			'9NHDA'					
RATINGS IS TO BE 100			AMPS			GROUND BAR IS REQUIRED								
MAIN PROTECTION: 100 AMP MAIN BREAKER						NEUTRAL BUS IS TO BE (X) FULL () DOUBLE SIZE								
BRANCH POLES: 42						HINGED DOOR WITH KEYPED LATCH (X) IS () IS NOT REQUIRED								
PANELBOARD IS TO BE () FUSED (X) BOLT IN CB TYPE						HARD WIRED SURGE PROTECTION (X) IS () IS NOT REQUIRED								
ALL BREAKERS RATED:			42,000 AMPS, SYM RMS			NEMA 1								
I = 7900 VA			= 9.5 A			CONNECTED LOAD:			8 KVA					
			480" V3											

PANELBOARD SCHEDULE											'9MHA'			
BUS KVA			LOAD	POLES	TRIP	LOAD	LOAD	TRIP	POLES	LOAD	LOAD	BUS KVA		
A	B	C										A	B	C
11.4			-	-	-	1	2	20	1	TB 9-1		1.5		
	11.4		AHU-9 (20 HP)	3	90	3	4	20	1	TB 9-2			2.0	
		11.4	-	-	-	5	6	20	1	TB 9-3				2.0
7.3			-	-	-	7	8	20	1	TB 9-4		2.0		
	7.3		FTB 9-1 (22KW)	3	40	9	10	20	1	TB 9-5			2.0	
		7.3	-	-	-	11	12	20	1	TB 9-6				1.0
			-	-	-	13	14	20	1	TB 9-7		2.0		
			SPARE	3	15	15	16	20	1	TB 9-8			2.0	
			-	-	-	17	18	20	1	TB 9-9				2.0
			-	-	-	19	20	20	1	TB 9-10		2.0		
			SPARE	3	15	21	22	20	1	TB 9-11			1.0	
			-	-	-	23	24	20	1	TB 9-12				2.0
			-	-	-	25	26	20	1	TB 9-13		2.0		
			SPARE	3	20	27	28	20	1	TB 9-14			2.0	
			-	-	-	29	30	20	1	TB 9-15				2.0
			-	-	-	31	32	20	1	TB 9-16		2.0		
			SPARE	3	20	33	34	20	1	TB 9-17			2.0	
			-	-	-	35	36	20	1	TB 9-18				1.5
			SPARE	1	20	37	38	20	1	TB 9-19		2.0		
			SPARE	1	20	39	40	20	1	TB 9-20			2.0	
			SPARE	1	20	41	42	20	1	TB 9-21				3.5
			SPARE	1	20	43	44	20	1	TB 9-22		2.0		
			SPARE	1	20	45	46	20	1	TB 9-23			2.0	
			SPARE	1	20	47	48	20	1	SPARE				
			SPARE	1	20	49	50	20	1	SPARE				
			SPARE	1	20	51	52	20	1	SPARE				
			SPARE	1	20	53	54	20	1	SPARE				
			SPARE			55	56			SPACE				
			SPARE			57	58			SPACE				
			SPARE			59	60			SPACE				
			SPARE			61	62			SPACE				
			SPACE			63	64			SPACE				
			SPACE			65	66			SPACE				
			SPACE			67	68			SPACE				
			SPACE			69	70			SPACE				
			SPACE			71	72			SPACE				
			SPACE			73	74			SPACE				
			SPACE			75	76			SPACE				
			SPACE			77	78			SPACE				
			SPACE			79	80		-			0		
			SPACE			81	82	30	3	SPD-2			0	
			SPACE			83	84		-					0
RATED VOLTAGE: 480/277V			3 PHASE, 4 WIRE			FEED IS TO BE () BOTTOM (X) TOP FROM			'9NHDA'					
RATINGS IS TO BE 400			AMPS			GROUND BAR IS REQUIRED								
MAIN PROTECTION: 225 AMP MAIN BREAKER						NEUTRAL BUS IS TO BE () FULL (X) DOUBLE SIZE								
BRANCH POLES: 64						HINGED DOOR WITH KEYPED LATCH (X) IS () IS NOT REQUIRED								
PANELBOARD IS TO BE () FUSED (X) BOLT IN CB TYPE						HARD WIRED SURGE PROTECTION (X) IS () IS NOT REQUIRED								
ALL BREAKERS RATED: 42,000 AMP/5, 57MM RMS						NEMA 1								
I = 100600 VA			= 121.0			A			CONNECTED LOAD:			101 KVA		
480* V3														

