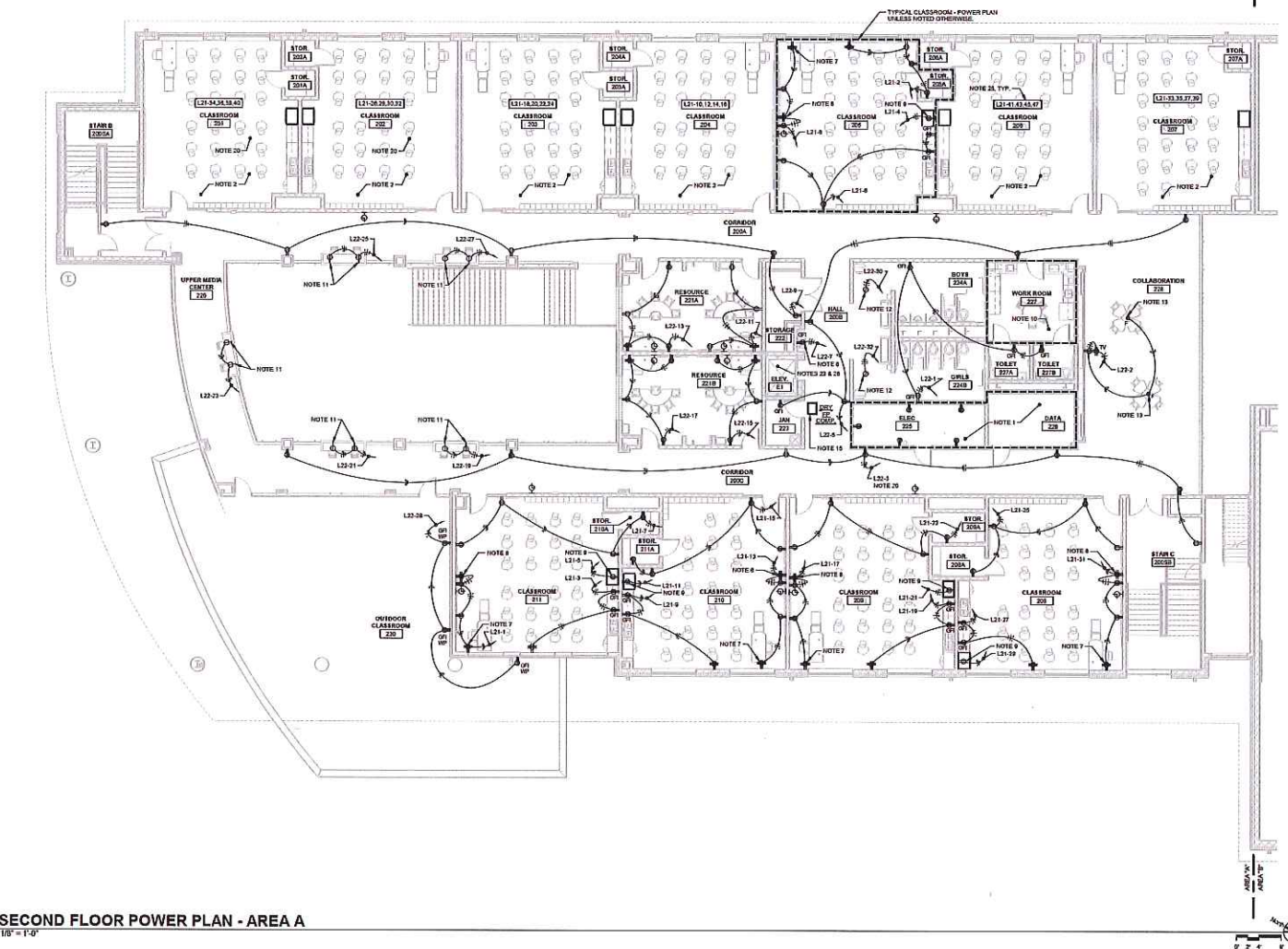


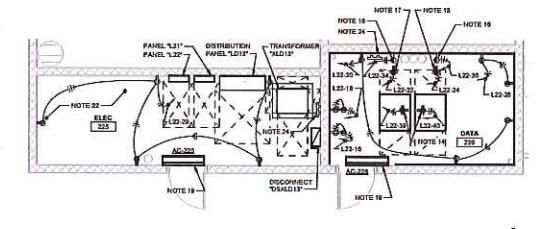


E2.10

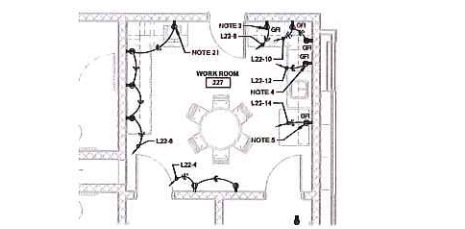
F2 1b



SECOND FLOOR POWER PLAN - AREA A
1/8" = 1'-0"



SECOND FLOOR ENLARGED ELECTRICAL & DATA
1/4" = 1'-0"



SECOND FLOOR ENLARGED WORKROOM
1/4" = 1'-0"

- NOTES:**
1. REFER TO SECOND FLOOR RELATED ELECTRICAL & DATA, THIS SHEET, FOR ADDITIONAL REQUIREMENTS.
 2. REFER TO "TYPICAL CLASSROOM - POWER PLAN", THIS SHEET, FOR ADDITIONAL REQUIREMENTS.
 3. RECEPTACLE AND DEDICATED BRANCH CIRCUIT FOR MICROWAVE, VERIFY EXIST INSTALLATION HEIGHT WITH ARCHITECTURAL ELEVATIONS.
 4. RECEPTACLE AND DEDICATED BRANCH CIRCUIT FOR COFFEE MAKER, VERIFY EXIST INSTALLATION HEIGHT WITH ARCHITECTURAL ELEVATIONS.
 5. RECEPTACLE AND DEDICATED BRANCH CIRCUIT FOR REFRIGERATOR, VERIFY EXIST INSTALLATION HEIGHT WITH ARCHITECTURAL ELEVATIONS.
 6. RECEPTACLE AND DEDICATED BRANCH CIRCUIT FOR TEACHERS WORK DESK.
 7. RECEPTACLE FOR WALL MOUNTED SMART BOARD, COORDINATE MOUNTING HEIGHT AND INSTALLATION LOCATION OF MOUNTING WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. COORDINATE ELEVATION FOR OUTLET AT SAME HEIGHT. COORDINATE ELEVATION FOR OUTLET WITH GENERAL CONTRACTOR. REFER TO TYPICAL SMART BOARD ELEVATION DETAIL, SHEET 3 & 4, FOR ADDITIONAL REQUIREMENTS.
 8. RECEPTACLE AND DEDICATED BRANCH CIRCUIT FOR CHAIRING CART, PROVIDE ENLARGED WORK/STORAGE, THIS SHEET, FOR ADDITIONAL REQUIREMENTS.
 9. REFER TO "FIRST FLOOR ENLARGED WORK/STORAGE", THIS SHEET, FOR ADDITIONAL REQUIREMENTS.
 10. PROVIDE RECEPTABLES INSTALLED IN CASEWORK, PROVIDE ALL MATERIAL AND LABOR AS REQUIRED TO PROVIDE BRANCH CIRCUIT WITHIN CASEWORK, COORDINATE ROUTING AND INSTALLATION WITH ARCHITECT AND CASEWORK PROVIDER PRIOR TO ROUGH-IN.
 11. PROVIDE JUNCTION BOXES AS REQUIRED FOR DEDICATED 120V POWER CIRCUITS TO TRANSFORMERS FOR LOW VOLTAGE CONTROL, POWER TO FURNISHING PROVIDERS, TRANSFORMERS AND ALL LOW VOLTAGE CIRCUITS AND OVER CURRENT PROTECTION DEVICES SHALL BE PROVIDED AND INSTALLED BY THE FURNISHING CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUITS TO PRIMARY SIDE OF THE TRANSFORMERS, PROVIDE POWER CIRCUITS TO TRANSFORMERS FROM THE MAIN AND DRILL NUMBERING AS INDICATED. NOTES: EACH BRANCH CIRCUIT SHALL FEED MAINS IN LOW VOLTAGE CONTROL AND MANAGEMENT SYSTEMS. PROVIDE ALL LABOR AND MATERIAL TO ADJUST RECEPTABLES TO CASE WORK.
 12. PROVIDE MAIN FUSE & SAFETY DISCONNECT SWITCH NEAR COMPRESSOR, PROVIDE FUSE PER COMPRESSOR MANUFACTURERS REQUIREMENTS. PROVIDE DEDICATED 120V, 20A BRANCH CIRCUIT TO DISCONNECT SWITCH AND FROM DISCONNECT SWITCH TO COMPRESSOR FROM PANEL, MAIN, CIRCUIT NO. 10, 10/20 30/15, 30/15 3/4".
 13. HAFER RECEPTACLE AND DEDICATED 20A, 120V BRANCH CIRCUIT FOR POWER PROVIDED UPS, COORDINATE RECEPTABLE HEIGHT COORDINATION WITH OWNERS IT PERSON PRIOR TO START OF ROUGH-IN. PROVIDE ALL LABOR AND MATERIAL TO MOUNT RECEPTABLES TO CASE WORK.
 14. RECEPTABLES AND 120V, 20A BRANCH CIRCUIT FOR VIDEO SERVER, COORDINATE INSTALLATION HEIGHT AND LOCATION WITH OWNERS IT PERSON PRIOR TO START OF ROUGH-IN. PROVIDE ALL LABOR AND MATERIAL TO MOUNT RECEPTABLES TO CASE WORK.
 15. PROVIDE ALL REQUIRED POWER AND CONTROL CIRCUITS FROM THE CORRESPONDING CONDENSING UNIT ON THE MECHANICAL PLATFORM A TO THE ASSOCIATED WIRE AT UNIT PER THE MANUFACTURERS REQUIREMENTS. PROVIDE FINAL CONNECTIONS PER MANUFACTURERS REQUIREMENTS.
 16. UTILITY #10 AWG CONDUCTORS THE ENTIRE LENGTH OF RUN.
 17. RECEPTACLE AND BRANCH CIRCUIT FOR PRINTER, COORDINATE INSTALLATION LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
 18. SEE ONE LINE DIAGRAM, SHEET E2.1, FOR ADDITIONAL REQUIREMENTS FOR EQUIPMENT IN THIS ROOM.
 19. PROVIDE ALL LABOR AND MATERIAL AS REQUIRED AND INTERCONNECT THE ELEVATOR CONTROLLER AND FIRE ALARM SYSTEMS TO PROVIDE PROPER ELEVATOR RESCUE FUNCTIONS.
 20. REFER TO ELECTRICAL GROUNDING SYSTEM DETAILS, SHEET E1.A, FOR ADDITIONAL REQUIREMENTS.
 21. IDENTIFICATION INDICATES PANEL AND BRANCH CIRCUITS WHICH SHALL BE USED TO FEED RECEPTABLES WITHIN ROOM.
 22. COORDINATE THE INSTALLATION LOCATIONS AND MOUNTING HEIGHTS OF ALL POWER, SYSTEM, TECHNOLOGY AND LIGHTING EQUIPMENT AND MATERIALS WITHIN THE ELEVATOR CONTROL ROOM AND ELEVATOR PIT AND SHUT AREAS WITH THE ELEVATOR PROVIDER PRIOR TO ROUGH-IN TO ENSURE THE INSTALLATION WILL MEET THE REQUIREMENTS OF THE ELEVATOR PROVIDER AND THE ELEVATOR INSPECTOR.

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Civil Engineer
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Henderson, KY 42420
Telephone: 270.232.1277
Facsimile: 502.581.5426

HODGE
Hodge Structural Engineers
21 Chestnut Street
Evansville, IN 47713
Telephone: 812.422.2585
Facsimile: 812.422.3337

Architect
Shinner Design Associates
101 Second Street
Henderson, KY 42420
Telephone: 270.828.8179

Not for Construction
10/16/2019
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Revisions:	Description	Date
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Designed By: CSW
Drawn By: SDB
Checked By: ADB

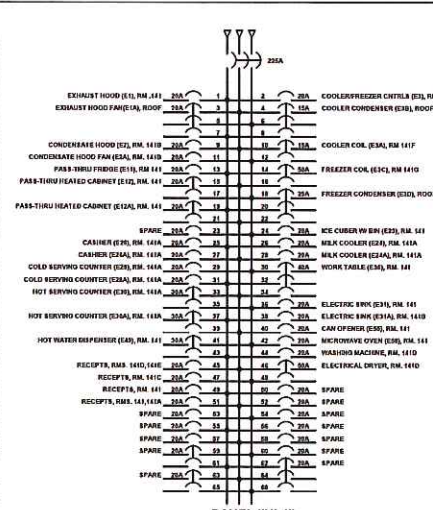
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Sheet 106:

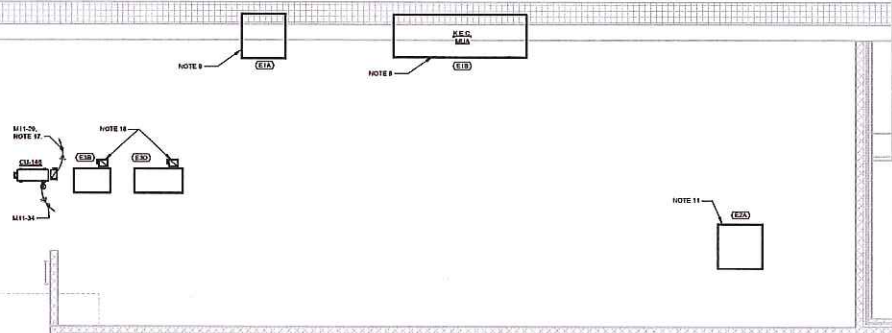
SECOND FLOOR POWER PLAN

Architect's Project No: 1807-244
Date: October, 2019

Drawing No: **E2.2**



ENLARGED KITCHEN PLAN

$$\frac{1}{4}^\circ = 1'-0''$$


KITCHEN ROOF POWER PLAN

$$\frac{1}{4}'' = 1'-0''$$

FOOD SERVICE EQUIPMENT ELECTRICAL SCHEDULE

ITEM	QTY	EQUIPMENT DESCRIPTION	YR-100	PHASE	SW	AMP	N.P.	CORRECT	RECEPTACLE	PANEL DESIGNATION	WIRING	C	REMARKS
61	1	EXHAUST HOOD SYSTEM	100	1	18	1.66		DIRECT	PL-11	3012 & 1412 (2ND)	3" W		NOTE 16
62	1	EXHAUST HOOD SYSTEM	100	1	18	1.66		DIRECT	PL-11	3012 & 1412 (2ND)	3" W		NOTE 16
63	1	EXHAUST HOOD SYSTEM	100	1	18	1.66		DIRECT	PL-11	3012 & 1412 (2ND)	3" W		NOTE 16
64	1	EXHAUST HOOD SYSTEM	100	1	18	1.66		DIRECT	PL-11	3012 & 1412 (2ND)	3" W		NOTE 16
65	1	EXHAUST HOOD SYSTEM	100	1	18	1.66		DIRECT	PL-11	3012 & 1412 (2ND)	3" W		NOTE 16
66	1	EXHAUST HOOD SYSTEM	100	1	18	1.66		DIRECT	PL-11	3012 & 1412 (2ND)	3" W		NOTE 16
67	1	EXHAUST HOOD SYSTEM	100	1	18	1.66		DIRECT	PL-11	3012 & 1412 (2ND)	3" W		NOTE 16
68	1	EXHAUST HOOD SYSTEM	100	1	18	1.66		DIRECT	PL-11	3012 & 1412 (2ND)	3" W		NOTE 16
69	1	EXHAUST HOOD SYSTEM	100	1	18	1.66		DIRECT	PL-11	3012 & 1412 (2ND)	3" W		NOTE 16
70	1	EXHAUST HOOD SYSTEM	100	1	18	1.66		DIRECT	PL-11	3012 & 1412 (2ND)	3" W		NOTE 16
71	1	EXHAUST HOOD SYSTEM	100	1	18	1.66		DIRECT	PL-11	3012 & 1412 (2ND)	3" W		NOTE 16
72	1	EXHAUST HOOD SYSTEM	100	1	18	1.66		DIRECT	PL-11	3012 & 1412 (2ND)	3" W		NOTE 16
73	1	EXHAUST HOOD SYSTEM	100	1	18	1.66		DIRECT	PL-11	3012 & 1412 (2ND)	3" W		NOTE 16
74	1	EXHAUST HOOD SYSTEM	100	1	18	1.66		DIRECT	PL-11	3012 & 1412 (2ND)	3" W		NOTE 16
75	1	EXHAUST HOOD SYSTEM	100	1	18	1.66		DIRECT	PL-11	3012 & 1412 (2ND)	3" W		NOTE 16
76	1	EXHAUST HOOD SYSTEM	100	1	18	1.66		DIRECT	PL-11	3012 & 1412 (2ND)	3" W		NOTE 16
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164	1	EXHAUST HOOD SYSTEM	100	1	18	1.66	</						

NOTES:

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GENERAL KITCHEN NOTES:

- 01. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLED COLD SETS FURNISHED BY KITCHEN EQUIPMENT CONTRACTOR.**
- 02. ELECTRICAL CONTRACTOR SHALL PROVIDE CONTROL POWER CIRCUIT TO EACH RECEPTACLE VALVE FROM THE MAIN SERVICE PANEL.**
- 03. ALL DIRECT ELECTRICAL CONNECTIONS SHALL BE WITH LIQUID TIGHT FITTING AND SHALL COMPLY WITH THE MANUFACTURER'S INSTRUCTIONS AND ALL APPLICABLE ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.**
- 04. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING RECEPTACLE REQUIREMENTS WITH, AND PROVIDING RECEPTACLES TO MATCH COLD AND FLUID SETS FURNISHED BY OTHER EQUIPMENT CONTRACTORS.**
- 05. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT AND CONTROLS WIRING REQUIRED BETWEEN EXHAUSTION AND CONDENSERS FOR DUCTED COORDINATE REQUIREMENTS WITH KITCHEN EQUIPMENT CONTRACTOR PRIOR TO INSTALLATION.**
- 06. CONTRACTOR SHALL REFER TO KITCHEN EQUIPMENT CONTRACTOR PLANS AND DISCUSS FOR INSTALLATION LOCATIONS AND MOUNTING HEIGHTS AND DETAILS.**
- 07. DISCONNECT SWITCHES INSTALLED WITH OUTDOOR WET LOCAROUS SHALL BE IDENTIFIED.**
- 08. ALL PROHIBITS SHALL BE PERFORMED ACCORDING TO THE KITCHEN EQUIPMENT PROVIDER'S APPROVED SHOP DRAWINGS. IF VOLTAGE AND AMPERAGE REQUIREMENTS OF EQUIPMENT DIFFERENT THAN THE APPROVED SCHEDULED SHOP DRAWINGS ARE DIFFERENT THAN THE CIRCUITS PROVIDED ON THIS DRAWING, THEN THE CONTRACTOR SHALL NOTIFY TO THE ATTENTION OF THE ENGINEER PRIOR TO ROUTING IT.**
- 09. RETAIL RECEPTACLES ORIENTED UPWARD TO ALLOW EQUIPMENT CONDENSED STRAIN RELIEF TO FUNCTION PER MAJOR APPLIANCE DESIGN CENTER.**
- 10. ALL 120V, 20 AMP BRANCH CIRCUITS SHALL BE PROTECTED BY GFCI CIRCUIT BREAKER UNLESS NOTED AS A GFCI EXCEPT.**
- CONSIDER:** A 2-POLE HEMA IS SHUT DOWN DISCONNECT FOR CONDENSING UNIT. PREDETERMINE SAFETY CONDITIONS FOR THE CONTRACTOR TO ADVISE ANY FOR MAJOR APPLIANCE REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO PROVIDE AN ADDED SAFETY CONDITION REFER TO FOOD SERVICE EQUIPMENT ELECTRICAL SCHEDULE, SHEET 08, FOR ADDITIONAL ASSIGNMENTS.

PANEL "KL1"

225A, 208Y1120V, 3P1L, 4W
RECESSED MOUNT
6R SPACE
PROVIDE WITH STAINLESS STEEL HINGED COVER ENCLOSURE
* ALL 120V 3P1L BREAKERS SHALL BE OFC TYPE
* PROVIDE WITH TYPED INDEX CARD

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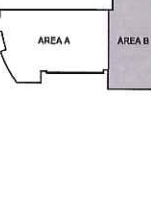
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#	Description	Date

Designed By: CWW

Drawn By: LSW

Checked By: MBP

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Sheet title:

ENLARGED KITCHEN POWER PLAN

Architect's Project No:

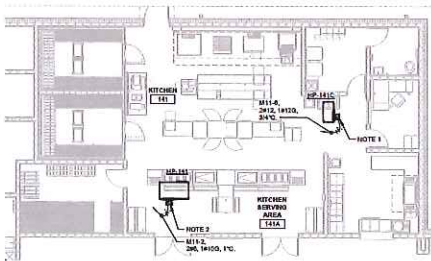
Date:

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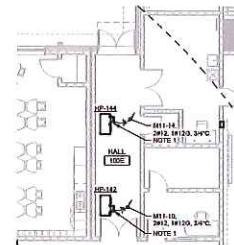
October, 2019

Drawing No:

E2.3



ENLARGED KITCHEN MECHANICAL POWER & SYSTEMS PLAN



ENLARGED HALL MECHANICAL POWER & SYSTEMS PLAN

NOTES:

1. PROVIDE A RAMP NEAR 1 SAFETY DISCONNECT FOR HEAT PUMP. INTERCONNECT SAFETY DISCONNECT WITH HEAT PUMP PER MANUFACTURER'S REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL MATERIAL AND LABOR AS REQUIRED TO PROPERLY MOUNT SAFETY DISCONNECT. COORDINATE LOCATION OF DISCONNECT WITH ALL TRADES SUCH THAT PROPER CLEARANCE IS GIVEN TO DISCONNECT UPON COMPLETION OF PROJECT.
2. PROVIDE A RAMP NEAR 1 SAFETY DISCONNECT FOR HEAT PUMP. INTERCONNECT SAFETY DISCONNECT WITH HEAT PUMP PER MANUFACTURER'S REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL MATERIAL AND LABOR AS REQUIRED TO PROPERLY MOUNT SAFETY DISCONNECT. COORDINATE LOCATION OF DISCONNECT WITH ALL TRADES SUCH THAT PROPER CLEARANCE IS GIVEN TO DISCONNECT UPON COMPLETION OF PROJECT.
3. PROVIDE A RAMP NEAR 1 SAFETY DISCONNECT FOR HEAT PUMP. INTERCONNECT SAFETY DISCONNECT WITH HEAT PUMP PER MANUFACTURER'S REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL MATERIAL AND LABOR AS REQUIRED TO PROPERLY MOUNT SAFETY DISCONNECT. COORDINATE LOCATION OF DISCONNECT WITH ALL TRADES SUCH THAT PROPER CLEARANCE IS GIVEN TO DISCONNECT UPON COMPLETION OF PROJECT.
4. PROVIDE A RAMP NEAR 1 SAFETY DISCONNECT FOR HEAT PUMP. INTERCONNECT SAFETY DISCONNECT WITH HEAT PUMP PER MANUFACTURER'S REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL MATERIAL AND LABOR AS REQUIRED TO PROPERLY MOUNT SAFETY DISCONNECT. COORDINATE LOCATION OF DISCONNECT WITH ALL TRADES SUCH THAT PROPER CLEARANCE IS GIVEN TO DISCONNECT UPON COMPLETION OF PROJECT.
5. VFD WITH INTEGRAL DISCONNECT FOR PRIMARY WATER PUMP. CONNECT TO PANEL AND BUILDING AS SHOWN ON DRAWINGS USING 3/4" LAMB #1 L-14F CODED. PROVIDE FINAL POWER CONNECTION TO VFD PER MANUFACTURER'S REQUIREMENTS.
6. VFD WITH INTEGRAL DISCONNECT FOR SECONDARY WATER PUMP. CONNECT TO PANEL AND BUILDING AS SHOWN ON DRAWINGS USING 3/4" LAMB #1 L-14F CODED. PROVIDE FINAL POWER CONNECTION TO VFD PER MANUFACTURER'S REQUIREMENTS.
7. AIR HANDLING UNIT WITH INTEGRAL SAFETY DISCONNECT AND VFD. SEE ONE-LIKE DRAWING, SHEET 3, FOR ADDITIONAL REQUIREMENTS. PROVIDE FINAL POWER CONNECTION TO DISCONNECT FOR MANUFACTURER'S REQUIREMENTS.
8. PROVIDE FUNCTION BOXES AS REQUIRED FOR DEDICATED 120V POWER CIRCUITS TO TRANSFORMERS OR LOW VOLTAGE CONTROL POWER TO VAV BOXES. CIRCUITS TO TRANSFORMERS AND ALL LOADS ARE CIRCUITS AND DISCONNECT PROTECTION. ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUITS TO TRANSFORMERS FROM THE PANEL AND CIRCUIT NUMBERS AS INDICATED. NOTE EACH BRANCH CIRCUIT SHALL FEED MULTIPLE LOW VOLTAGE TRANSFORMERS. SEE MECHANICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
9. COORDINATE UNIT WITH MECHANICAL SAFETY DISCONNECT. INTERCONNECT SAFETY DISCONNECT WITH CONSIDERABLE USE PER MANUFACTURER'S REQUIREMENTS. PROVIDE ALL LABOR AND MATERIAL TO INTERCONNECT POWER AND CONTROL TO THE AIR HANDLING UNIT WITH THE BUILDING THAT IS DEVOTED TO THE CONSIDERABLE UNIT.
10. TEMPERATURE CONTROL PANELS: PROVIDE ALL LABOR AND MATERIAL AS REQUIRED TO PROVIDE POWER CIRCUIT AND DATA CONNECTION TO EACH PANEL. DATA CONNECTIONS SHALL TERMINATE IN STOPS FROM 93.3 IN. LOCATED IN RACK. CONNECT POWER TO PANEL. MP31, CIRCUITS 26 & 30 USING #12 AWG CONDUCTORS FOR DATA BUS.
11. PROVIDE MATERIALS AND LABOR REQUIRED AND INTERCONNECT DUCT SMOKE DETECTOR WITH THE FIRE ALARM SYSTEM AND THE AIR HANDLING UNIT AS REQUIRED TO SHUT DOWN UNIT ON DETECTION OF SMOKE VIA THE DUCT DETECTOR. INSTALL WITHIN DUCT AS INDICATED. COORDINATE THE EXACT INSTALLATION LOCATION IN FIELD WITH THE HVAC CONTRACTOR PROVIDER AND PER CODE.
12. PROVIDE MATERIALS AND LABOR REQUIRED AND INTERCONNECT DUCT SMOKE DETECTOR WITH THE FIRE ALARM SYSTEM AND THE AIR HANDLING UNIT AS REQUIRED TO SHUT DOWN UNIT ON DETECTION OF SMOKE VIA THE DUCT DETECTOR. INSTALL WITHIN DUCT AS INDICATED. COORDINATE THE EXACT INSTALLATION LOCATION IN FIELD WITH THE HVAC CONTRACTOR PROVIDER AND PER CODE.
13. PROVIDE DEDICATED 25A 120V POWER CIRCUIT TO GLYCOL MAKE-UP UNIT FROM PANEL MP31. CIRCUIT # 18100, 34V, 18100, 34V. COORDINATE THE INSTALLATION LOCATION AND REQUIREMENTS WITH THE ACCESS CONTROL SYSTEM PROVIDER PRIOR TO INSTALL.
14. PROVIDE ALL LABOR AND MATERIAL TO MOUNT DEVICES TO STRUCTURE AS REQUIRED.

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Revisions:			
#	Description	By	Date

Designed By:	Drawn By:	Checked By:
CWW	SSB	ASB

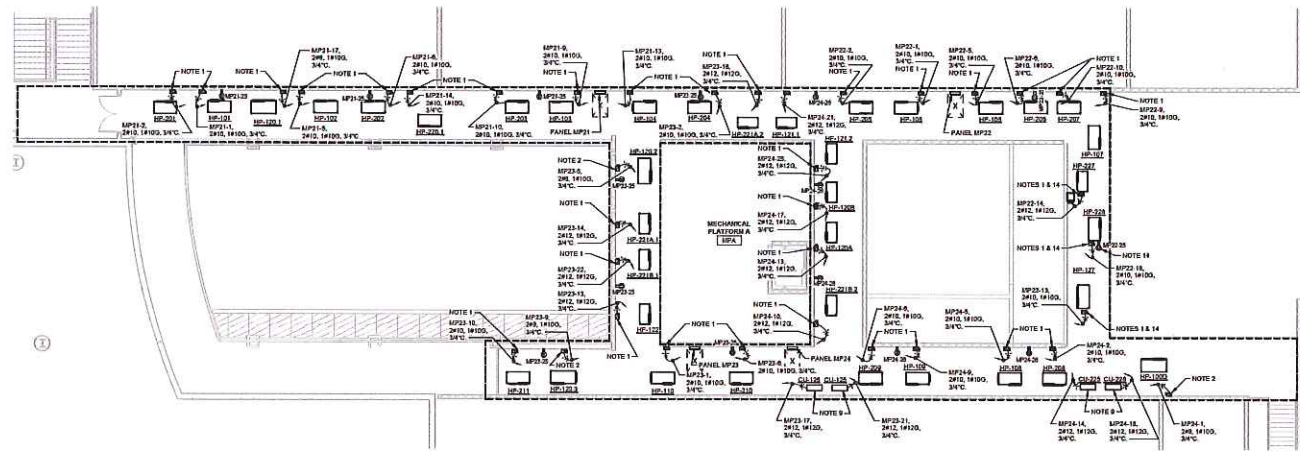
Sheet Title:
MECHANICAL EQUIPMENT
POWER & SYSTEMS PLAN

Architect Project No: 1807-244
Date: October, 2019

Drawing No: E2.4

MECHANICAL PLATFORM B POWER & SYSTEMS PLAN

ENLARGED OFFICE MECHANICAL POWER & SYSTEMS PLAN



MECHANICAL PLATFORM A POWER & SYSTEMS PLAN

Revision	By	Date
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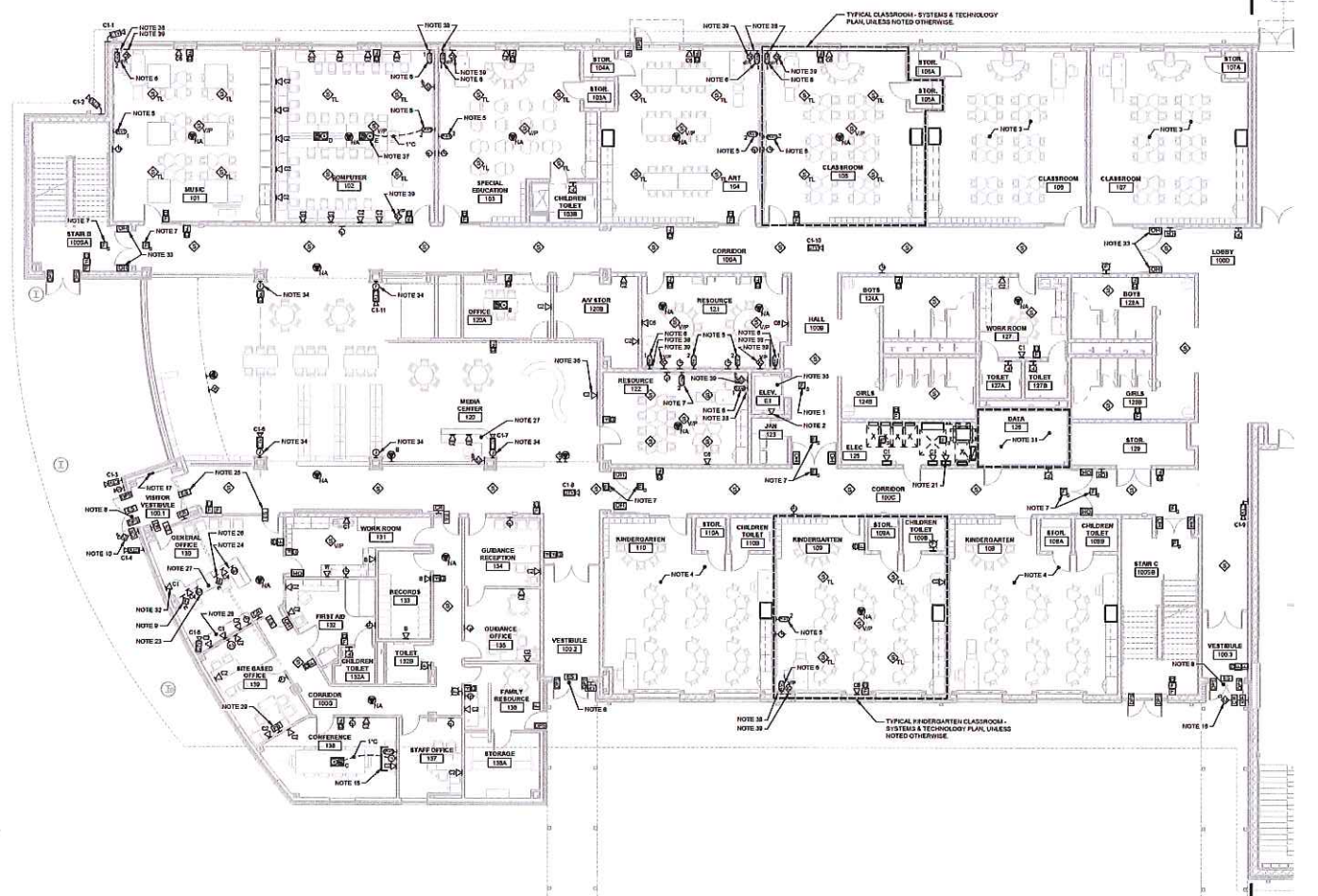
Designed By: CWW
Drawn By: SCB
Checked By: AJS

FIRST FLOOR SYSTEMS AND TECHNOLOGY PLAN - AREA A

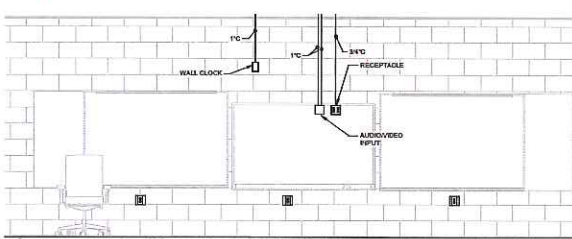
Architect's Project No: 1807-244 Date: October, 2019

Sheet No: E3.1a

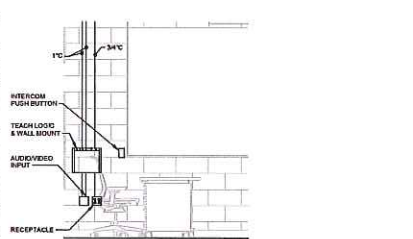
- NOTES:**
1. PROVIDE MATERIALS, EQUIPMENT AND LABOR REQUIRED AND INTERCONNECT (VOICE DETECTOR, FIRE ALARM SYSTEM AND ELEVATOR CONTROLLER) TOGETHER AS REQUIRED TO PROVIDE ELEVATOR RECALL FUNCTION.
 2. PROVIDE A CAT5E 4-PAIR VOICE CABLE IN CONDUIT RACEWAY FROM ELEVATOR EQUIPMENT CONTROLLER TO DATA ROOM 102. PROVIDE TERMINATIONS TO ELEVATOR EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. (FOR PHONE SERVICE TO ELEVATOR CALL EMERGENCY PHONE.)
 3. REFER TO "TYPICAL CLASSROOM - SYSTEMS & TECHNOLOGY PLAN", THIS SHEET, FOR ADDITIONAL REQUIREMENTS.
 4. REFER TO "TYPICAL HENDERSON CLASSROOM - SYSTEMS & TECHNOLOGY PLAN", THIS SHEET, FOR ADDITIONAL REQUIREMENTS.
 5. ADD/REMOVE OUTLET AS SHOWN ON BOARD. REFER TO AN OUTLET CONFIGURATION DETAIL, SHEET E1.1, FOR ADDITIONAL REQUIREMENTS. PROVIDE TWO (2) CONDUIT FROM OUTLET TO MAIN RACEWAY AND BUSHINGS. REFER TO INFORMATION OUTLET CONDUIT DETAIL, SHEET E1.1, AND TYPICAL SMART BOARD AND OUTLET ELEVATION, THIS SHEET, FOR ADDITIONAL REQUIREMENTS.
 6. ADD/REMOVE OUTLET AT TEACHER'S DESK. REFER TO AN OUTLET CONFIGURATION DETAIL, SHEET E1.1, FOR ADDITIONAL REQUIREMENTS. PROVIDE TWO (2) CONDUIT FROM OUTLET TO ABOVE CEILING CHUTE AND BUSHINGS. REFER TO INFORMATION OUTLET CONDUIT DETAIL, SHEET E1.1, AND TYPICAL SMART BOARD AND OUTLET ELEVATION, THIS SHEET, FOR ADDITIONAL REQUIREMENTS.
 7. PROVIDE MATERIALS AND LABOR AS REQUIRED AND INTERCONNECT (VOICE DETECTOR WITH DOOR HOLD-OPEN DEVICES AS REQUIRED TO RELEASE POWER TO DOOR HOLD-OPEN DEVICES AND ALLOW DOORS TO CLOSE ON DETECTION OF SMOKE).
 8. PROVIDE ALL MATERIALS AND LABOR REQUIRED AND INTERCONNECT THE FIRE ALARM SYSTEM WITH THE ACCESS CONTROL SYSTEM AS REQUIRED TO UNLOCK DOOR ON ACTUATION OF A GENERAL FIRE-ALARM CONDITION.
 9. HENDERSON SYSTEM MASTER STATION. COORDINATE EXACT LOCATION WITHIN CLASSROOM 101 WITH OWNER. INTERCONNECT WITH ELECTRONIC ACCESS CONTROL SYSTEM WITHIN VESTIBULE 101 AND VESTIBULE 102 TO ALLOW "WALK-OUT" OF DOOR (INDIVIDUALLY) BY PRESSING THE DOOR RELEASE BUTTON.
 10. PROVIDE AN INTERCOM SYSTEM "PUSH-TO-CALL" STATION WITH VOICE AND VIDEO ON THE EXTERIOR OF DOOR. CONNECT TO MASTER STATION WITHIN GENERAL OFFICE 101 PER MANUFACTURER'S REQUIREMENTS. PROVIDE ALL LABOR AND MATERIALS REQUIRED TO BUILDERS EXTERIOR PER MANUFACTURER'S REQUIREMENTS.
 11. PROVIDE BY HAND OR BY HIGH VOLTAGE CABLE TO THE EXTERIOR OF WALL, RECALL BOTTOM OF PLYWOOD APPROPRIATELY 1" A.P. 7. PARTLY BURIED TO PATENT WITH FIVE REBAR/PATENT PIGTAIL PRIOR TO INSTALLATION OF EQUIPMENT.
 12. CABLE TRAY. TYPICAL BOND ALL CABLE TRAYS TO EACH OTHER AND TO THE GROUND BUS BAR USING AN APPROVED COPPER CABLE.
 13. DATA RACK. BOND RACKS TO EACH OTHER AND TO THE GROUND BUS BAR USING AN APPROVED COPPER CABLE.
 14. PROVIDE A QUANTITY OF FIBER, 4 CONDUITS THROUGH WALL FOR ROUTING OF LOW VOLTAGE CABLES. REFER TO "TYPICAL CLASSROOM - SYSTEMS & TECHNOLOGY PLAN", AREA A, SHEET E1.1, FOR ADDITIONAL REQUIREMENTS.
 15. MONITOR JUNCTION BOX. HOW AND DATA OUTLET ADJACENT TO RECEPTACLE FOR LOCATION. PROVIDE ONE (1) 1/2" CONDUIT FROM HIGH-OUTLET TO SYSTEM COMPARTMENT IN FLOORPLATE WITHIN ROOM. PROVIDE HOW CABLE AND OUTLET EXTERIOR AT BASE WALL. PROVIDE A BUNDLE CABLE JUNCTION BOX FOR FUTURE DATA CABLE. PROVIDE A 1" CONDUIT FROM THE JUNCTION BOX TO ACCESSIBLE CABLE TRAY AND BUSHINGS. PROVIDE A WALL BRIDG. VERIFY EXACT MOUNTING HEIGHT OF OUTLET WITH OWNER PRIOR TO INSTALLATION. IN GENERAL, ALL LOCATION OUTLETS SHALL BE LOCATED AS TO BE HIDDEN BY THE MONITOR AFTER INSTALLATION.
 16. PROVIDE AN INTERCOM SYSTEM "PUSH-TO-CALL" STATION WITH VOICE AND VIDEO ON THE EXTERIOR OF DOOR. CONNECT TO MASTER STATION WITHIN GENERAL OFFICE 101 PER MANUFACTURER'S REQUIREMENTS. PROVIDE ALL LABOR AND MATERIALS REQUIRED TO BUILDERS EXTERIOR PER MANUFACTURER'S REQUIREMENTS.
 17. FIRE ALARM REBAR ARMATURE PANEL. COORDINATE WITH FIRE ALARM PROVIDER FOR INSTALLATION LOCATION AND EXACT HEIGHT.
 18. INTERCOM SYSTEM TO BE INSTALLED WITHIN THIS DATA ROOM. VERIFY EXACT PLACEMENT WITH RACK WITH EVOG 11. ENGINEER AND PROVIDER PRIOR TO INSTALLATION.
 19. PROVIDE A QUANTITY OF 4 STRANDS OF MULTICORE CABLE FROM DATA ROOM 102 TO DATA ROOM 102.
 20. PROVIDE A QUANTITY OF 4 STRANDS OF MULTICORE CABLE FROM DATA ROOM 102 TO STORAGE ROOM 101. REFER TO "TYPICAL CLASSROOM - SYSTEMS & TECHNOLOGY PLAN", AREA A, SHEET E1.1, FOR ADDITIONAL REQUIREMENTS.
 21. PROVIDE A CAT5E 4-PAIR VOICE CABLE TO TELEPHONE SERVICE TERMINATIONS WITHIN ROOM TO SERVE FIRE ALARM PANEL.
 22. HENDERSON COMPILER FOR COMMUNICATING REBAR. CONDUIT SHALL TERMINATE 6" ABOVE FINISHED FLOOR, BUSHING SHALL BE PROVIDED. REFER TO "TYPICAL CLASSROOM - SYSTEMS & TECHNOLOGY PLAN", AREA A, SHEET E1.1, FOR ADDITIONAL REQUIREMENTS.
 23. PUSH BUTTON STATION. COORDINATE EXACT LOCATION WITHIN CLASSROOM 101 WITH OWNER. INTERCONNECT WITH ELECTRONIC ACCESS CONTROL SYSTEM WITHIN VESTIBULE 101 TO ALLOW "WALK-OUT" OF DOOR (INDIVIDUALLY) BY PRESSING THE DOOR RELEASE BUTTON.
 24. PUSH BUTTON STATION. COORDINATE EXACT LOCATION WITHIN CLASSROOM 101 WITH OWNER. INTERCONNECT WITH ELECTRONIC ACCESS CONTROL SYSTEM WITHIN VESTIBULE 101 TO ALLOW "WALK-OUT" OF DOOR (INDIVIDUALLY) BY PRESSING THE DOOR RELEASE BUTTON.
 25. ELECTRIC STRIPS RELEASED BY PUSH BUTTON LOCATED AT GENERAL OFFICE 101 RECEPTION DESK.
 26. PAGING SYSTEM MASTER STATION. COORDINATE EXACT LOCATION WITHIN CLASSROOM 101 WITH OWNER. INTERCONNECT WITH PAGING SYSTEM AND MICROPHONE SYSTEM FOR COMMUNICATION THROUGHOUT THE SCHOOL.
 27. PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO ROUTE OUTLET RACEWAYS WITHIN CLASSROOM. COORDINATE ROUTING AND INSTALLATION WITH ADJACENT AND CASEWORK PROVIDER FROM ROOM 101.
 28. MONITOR DATA OUTLETS ADJACENT TO RECEPTABLES.
 29. PROVIDE PAGING PUSH BUTTON WITHIN OFFICE AREA EXACT LOCATION DESIGNATED BY OWNER. PUSH BUTTON SHALL RELEASE ALL HOLD-OPEN DEVICES THROUGH ACCESS CONTROL SYSTEM WITHIN THE OFFICE AREA, TO CREATE A "THRU-GOING" SITUATION.
 30. REFER TO ELECTRICAL GROUNDING SYSTEM DETAILS, SHEET E1.1, FOR ADDITIONAL REQUIREMENTS.
 31. REFER TO "FIRST FLOOR ENLARGED DATA ROOM - AREA A", THIS SHEET, FOR ADDITIONAL REQUIREMENTS.
 32. DATA OUTLET FOR OWNER PROVIDED WORK. COORDINATE WITH OWNER AND ARCHITECT FOR EXACT HEIGHT AND INSTALLATION LOCATION PRIOR TO ROUGHING.
 33. HOLD-OPEN DEVICES AT THIS DOOR LOCATION IS NOT PART OF THE FIRE ALARM SYSTEM. THESE DEVICES WILL HOLD THE DOORS OPEN DURING NORMAL BUSINESS HOURS. THE ACCESS CONTROL SYSTEM WILL SHUT-OFF POWER TO THE DOOR OPENERS AFTER BUSINESS HOURS AND WILL BE ABLE TO ALLOW DOORS TO AUTOMATICALLY CLOSE AND NOT BE ABLE TO BE RE-OPEN.
 34. PROVIDE EMPTY JUNCTION BOX FOR FUTURE USE AT 12" ABOVE FINISHED FLOOR TO CENTER. PROVIDE A BLANK COVER PLATE TO MATCH COLLAR. FINISH.
 35. COORDINATE THE INSTALLATION LOCATION AND MOUNTING HEIGHTS OF ALL POWER, SYSTEMS, TECHNOLOGY, AND LIGHTING EQUIPMENT AND MATERIALS WITHIN THE ELEVATOR CONTROL ROOM AND ELEVATOR PIT AND SHUNT AREA WITHIN THE ELEVATOR CONTROL ROOM AND ELEVATOR PIT AND THE INSTALLATION WILL MEET THE REQUIREMENTS OF THE ELEVATOR PROVIDER AND THE ELEVATOR CONTROL ROOM AND ELEVATOR PIT AND SHUNT AREA.
 36. DATA OUTLET FOR WALL MOUNTED SMARTBOARD.
 37. ADD/REMOVE FLOORPLATE AT TEACHER'S DESK. REFER TO MULTIFUNCTION FLOORPLATE SCHEDULE, SHEET E1.1, FOR ADDITIONAL REQUIREMENTS. PROVIDE CONDUIT FROM TEACHER'S DESK FLOOR NOT TO ANY OUTLET OR RUN HAS OF LOW VOLTAGE CONNECTION. REFER TO INFORMATION OUTLET CONDUIT DETAIL, SHEET E1.1, AND TYPICAL TEACHER'S DESK SMART BOARD CONNECTION ELEVATION, THIS SHEET, FOR ADDITIONAL REQUIREMENTS.
 38. WALL MOUNTED TEACHER'S DESK SYSTEMS. REFER TO TYPICAL TEACHER'S DESK SMART BOARD CONNECTION ELEVATION DETAIL, THIS SHEET, FOR ADDITIONAL REQUIREMENTS.
 39. INTERCOM SYSTEM "TEACHER STATION". COORDINATE EXACT LOCATION WITHIN OWNER AND ARCHITECTURAL ELEVATION. INTERCONNECT WITH INTERCOM SPEAKER/MICROPHONE SYSTEM FOR COMMUNICATION TO GENERAL OFFICE 101 RECEPTION DESK.



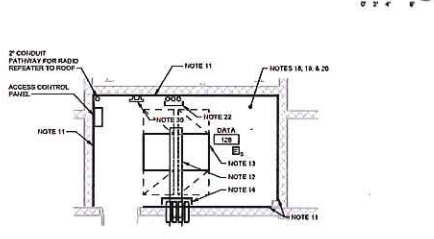
FIRST FLOOR SYSTEMS AND TECHNOLOGY PLAN - AREA A
1/8" = 1'-0"



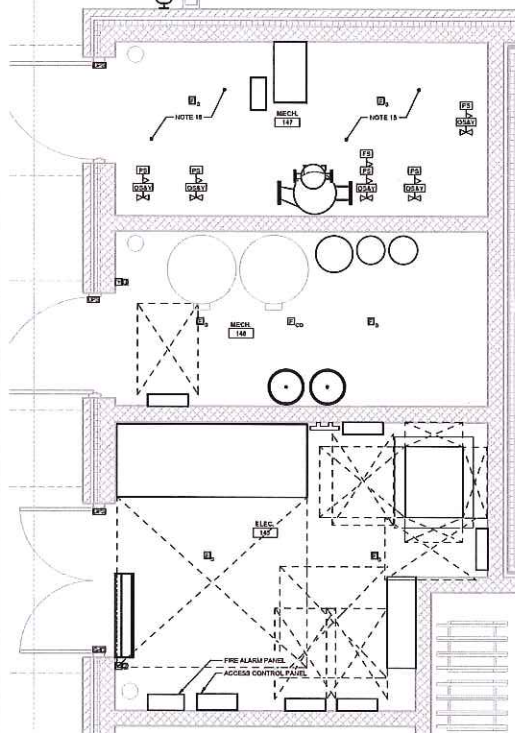
TYPICAL SMART BOARD AND OUTLETS ELEVATION
1/8" = 1'-0"



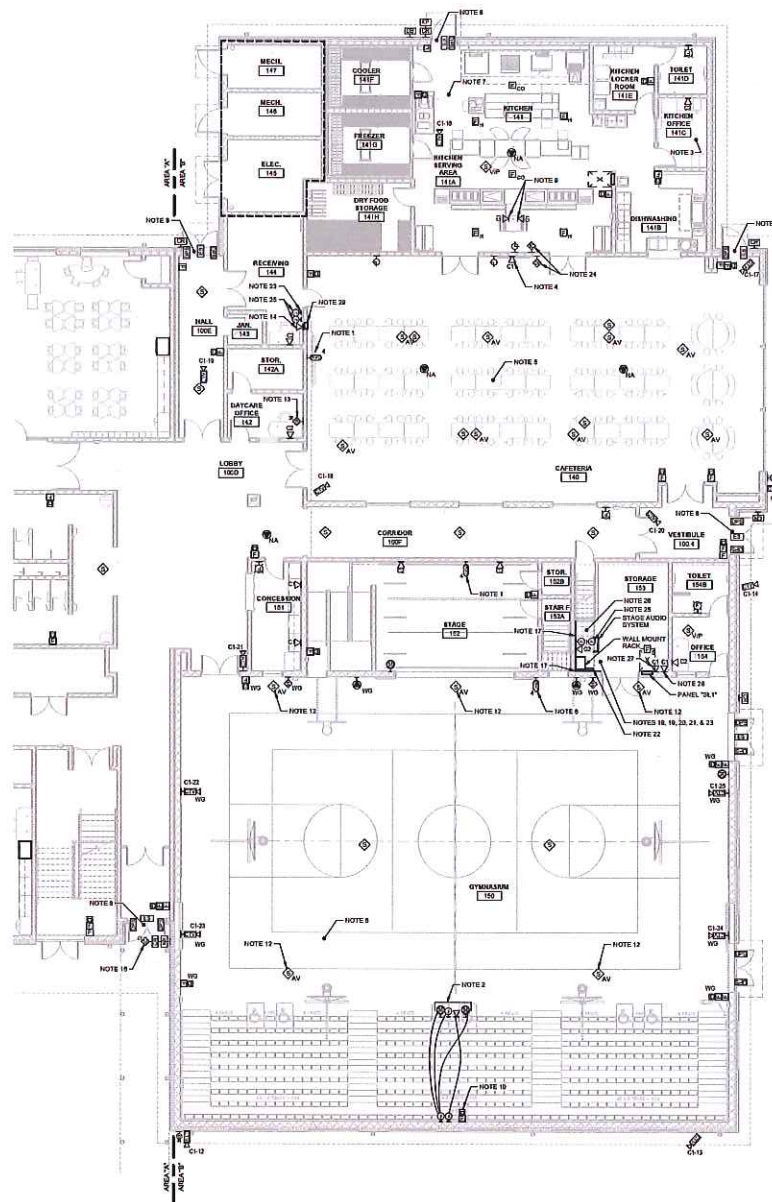
TYPICAL TEACHER'S DESK SMART BOARD CONNECTION ELEVATION
1/8" = 1'-0"



FIRST FLOOR ENLARGED DATA ROOM - AREA A
1/8" = 1'-0"



ENLARGED MECH/ELEC RM SYSTEMS & TECHNOLOGY PLAN
1/2" = 1'-0"



FIRST FLOOR SYSTEMS AND TECHNOLOGY PLAN - AREA B
1/8" = 1'-0"

NOTES:

1. ADDITIONAL OUTLET FOR PROJECTOR. REFER TO AN OUTLET CONFIGURATION DETAIL, SHEET E3.1 FOR ADDITIONAL REQUIREMENTS. PROVIDE TWO (2) CONDUIT FROM OUTLET TO ABOVE CEILING CAVITY AND BUSH ENDS. REFER TO INFORMATION OUTLET CONDUIT DETAIL, SHEET E3.1 FOR ADDITIONAL REQUIREMENTS.
2. OUTLETS TO BE MOUNTED FLUSH IN FRONT OF BLEACHERS. PROVIDE FLEXIBLE CONDUIT RACEWAY AS REQUIRED.
3. PROVIDE ALL MATERIALS, EQUIPMENT AND LABOR AS REQUIRED AND INTERCONNECT DETACHED OFFICE PHONE WITH SPEAKER HORN WITHIN KITCHEN 141 AND CATERING 140 SO THAT AFTER REFERRED NUMBER OF RINGS, HORN SHALL SOUND IN SYNC WITH RING.
4. MOUNT DATA OUTLET ADJACENT TO RECEPTACLE FOR MONITOR. PROVIDE A 1" CONDUIT FROM THE DATA OUTLET TO ACCESSIBLE CEILING CAVITY AND BUSH ENDS. REFER TO INFORMATION OUTLET CONDUIT DETAIL, SHEET E3.1 FOR ADDITIONAL REQUIREMENTS. IN GENERAL, ALL MOUNTED OUTLETS SHALL BE LOCATED AS TO BE HIDDEN BY THE MONITOR AFTER SET ALARM.
5. VERIFY CABLE RATES OF FIRE ALARM DEVICES WITH MANUFACTURER TO ALLOW FOR THE CORRECT COVERAGE OF THE AREA.
6. ADDITIONAL OUTLET AT STAGE. REFER TO AN OUTLET CONFIGURATION DETAIL, SHEET E3.1 FOR ADDITIONAL REQUIREMENTS. PROVIDE TWO (2) CONDUIT FROM OUTLET TO ABOVE CEILING CAVITY AND BUSH ENDS. REFER TO INFORMATION OUTLET CONDUIT DETAIL, SHEET E3.1 FOR ADDITIONAL REQUIREMENTS. IN GENERAL, ALL MOUNTED OUTLETS SHALL BE LOCATED AS TO BE HIDDEN BY THE MONITOR AFTER SET ALARM.
7. REFER TO ENLARGED KITCHEN POWER PLAN, SHEET E3.3 FOR ADDITIONAL REQUIREMENTS OR OTHER ROOM CONNECTIONS TO PRE-ALARM SYSTEM.
8. PROVIDE ALL MATERIALS AND LABOR REQUIRED AND INTERCONNECT THE FIRE ALARM SYSTEM WITH THE ACCESS CONTROL SYSTEM AS REQUIRED TO UNLOCK DOOR ON ACTIVATION OF A FIRE ALARM CONDITION.
9. DATA OUTLET FOR CASHIER POINT OF SALE. PROVIDE ALL LABOR AND MATERIAL AS REQUIRED TO ROUTE ONE (1) CONDUIT FROM DATA OUTLET LOCATION BELOW GRADE TO THE NEAREST ADJACENT WALL AND TO THE ACCESSIBLE CEILING CAVITY AND BUSH ENDS. PROVIDE FLEXIBLE TO MOUNT DATA OUTLET ADJACENT TO CASHIER'S RECEPTACLE.
10. INSTALL FIRE ALARM DEVICE 7' ABOVE TOP OF FOLDABLE BLEACHERS.
11. PROVIDE WEATHER RESISTANT, AUDIBLE & VISUAL INDICATION OF FIRE PROTECTION WATER FLOW ALARM.
12. STAGE MICROPHONE SPEAKERS. COORDINATE WITH AUDIOVISUAL PROVIDER AND STAGE SOUND LAYOUT FOR EXACT MOUNTING HEIGHT AND SPEAKER LOCATIONS PRIOR TO ROUGH-IN.
13. INTERCOM SYSTEM MASTER STATION. COORDINATE EXACT LOCATION LOCATION WITH CHAIRMAN. INTERCONNECT WITH AUDIOVISUAL PROVIDER AND STAGE SOUND LAYOUT FOR EXACT MOUNTING HEIGHT AND SPEAKER LOCATIONS PRIOR TO ROUGH-IN.
14. DATA OUTLET FOR AV CABLE AND CABLE. VERIFY EXACT LOCATION AND REQUIREMENTS WITH AV PROVIDER PRIOR TO ROUGH-IN.
15. PROVIDE EQUIPMENT, MATERIALS, CABLES AND LABOR AS REQUIRED TO MONITOR ELEVATOR AND TYPICAL ENTRANCES FOR THE FIRE SUPPRESSION SYSTEM. INTERCONNECT WITH THE BUILDING FIRE ALARM SYSTEM AS REQUIRED FOR CORRECT OPERATION. COORDINATE THE INSTALLATION LOCATIONS WITH THE FIRE PROTECTION SYSTEM PROVIDER PRIOR TO START OF ROUGH-IN.
16. PROVIDE AN INTERCOM SYSTEM PUSH-TO-CALL STATION WITH VOICE AND VIDEO ON THE EXTERIOR OF DOOR. CONNECT TO MASTER STATION WITHIN DATA CENTER OFFICE 140 FOR MANUFACTURER'S REQUIREMENTS. CALL SHALL RING TO MASTER STATION WITHIN GENERAL OFFICE 130 IF ORIGINAL CALL GOES UNANSWERED. PROVIDE ALL LABOR AND MATERIAL TO MOUNT STATION TO BUILDING'S EXTERIOR PER MANUFACTURER'S REQUIREMENTS.
17. PROVIDE 3/4" THICK BY 8" HIGH PLANKWOOD FOR THE ENTIRE LENGTH OF HALL. INSTALL BOTTOM OF PLANKWOOD APPROXIMATELY 18" A.P.F. PAINT PLANKWOOD TO MATCH FLOOR WITH FIRE RETARDANT PAINT PRIOR TO INSTALLATION OF EQUIPMENT.
18. CABLE TRAY. REFER TO FIRST FLOOR CABLE TRAY PLAN, SHEET E3.3 FOR ADDITIONAL REQUIREMENTS.
19. WALL MOUNTED DATA RACK. BOND BACK TO THE GROUND BUS BAR USING 6 AWG GROUND COPPER CABLE.
20. PROVIDE A QUANTITY OF FOUR (4) CONDUITS THROUGH WALL FOR ROUTING OF LOW VOLTAGE CABLES SYSTEM BUS CONDUIT ENDS.
21. GIVE ROUNDOFF 1" CONDUIT FOR COMMUNICATIONS FEED FROM DATA ROOM 120. CONDUIT SHALL TERMINATE 6" ABOVE FINISHED FLOOR AND BUSH ENDS. PROVIDE FULL STRING.
22. REFER TO ELECTRICAL GROUNDING SYSTEM DETAIL, SHEET E3.1, FOR ADDITIONAL REQUIREMENTS.
23. WALL MOUNTED AUDIO MICH MOUNTED HIGH OR WALL. COORDINATE EXACT INSTALLATION HEIGHT AND LOCATION WITH OWNER AND IT DEPARTMENT.
24. PROVIDE A PAGING SYSTEM "PUSH-TO-CALL" STATION WITH VOICE. CONNECT TO MASTER STATION WITHIN GENERAL OFFICE 130 PER MANUFACTURER'S REQUIREMENTS. OUTLET STATION TO BE FLUSH WITH WALL.
25. ADDITIONAL JUNCTION BOX AT AV RACK FOR PROJECTOR. PROVIDE TWO (2) CONDUIT FROM OUTLET TO ABOVE CEILING CAVITY AND BUSH ENDS. COORDINATE JUNCTION BOX LOCATION WITH OWNER AND IT DEPARTMENT AND PLACE ADJACENT TO RACK DATA OUTLET AND RECEPTACLE.
26. STAGE AUDIO SYSTEM RACK AND REWIRE CANT NOTE.
27. DATA CABLE FOR BIG AND FAN "X". PROVIDE 3/4" CONDUIT FROM OUTLET TO LOCATION TO JUNCTION BOX ADJACENT TO FAN. COORDINATE EXACT LOCATION OF OUTLET WITH EQUIPMENT PROVIDER PRIOR TO ROUGH-IN. PROVIDE FINAL CONNECTION TO FAN PER MANUFACTURER'S ADDITIONAL REQUIREMENTS.
28. DATA CABLE FOR BIG AND FAN "Y". PROVIDE 3/4" CONDUIT FROM OUTLET TO LOCATION TO JUNCTION BOX ADJACENT TO FAN. COORDINATE EXACT LOCATION OF OUTLET WITH EQUIPMENT PROVIDER PRIOR TO ROUGH-IN. PROVIDE FINAL CONNECTION TO FAN PER MANUFACTURER'S ADDITIONAL REQUIREMENTS.
29. BACK BOX FOR REMOTE EQUIPMENT. PROVIDE 12"x12" ENCLOSURE 8" DEEP, WITH A REMOTE LOCKABLE COVER DOOR. ENCLOSURE SHALL HAVE MULTIPLE HOOD-OUT ABOVE, BELOW, AND ON THE SIDES FOR 3/4", 1/2", AND 1/4" CONDUIT ENDS. PROVIDE ONE 3/4" CONDUIT AND ONE 1/2" CONDUIT FROM THE BACK BOX TO ABOVE CEILING CAVITY AND BUSH CONDUIT ENDS. PROVIDE FULL STRING. COORDINATE WITH AV PROVIDER FOR EXACT MOUNTING HEIGHT AND LOCATION PRIOR TO ROUGH-IN.

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Revisions:		
#	Description	Date

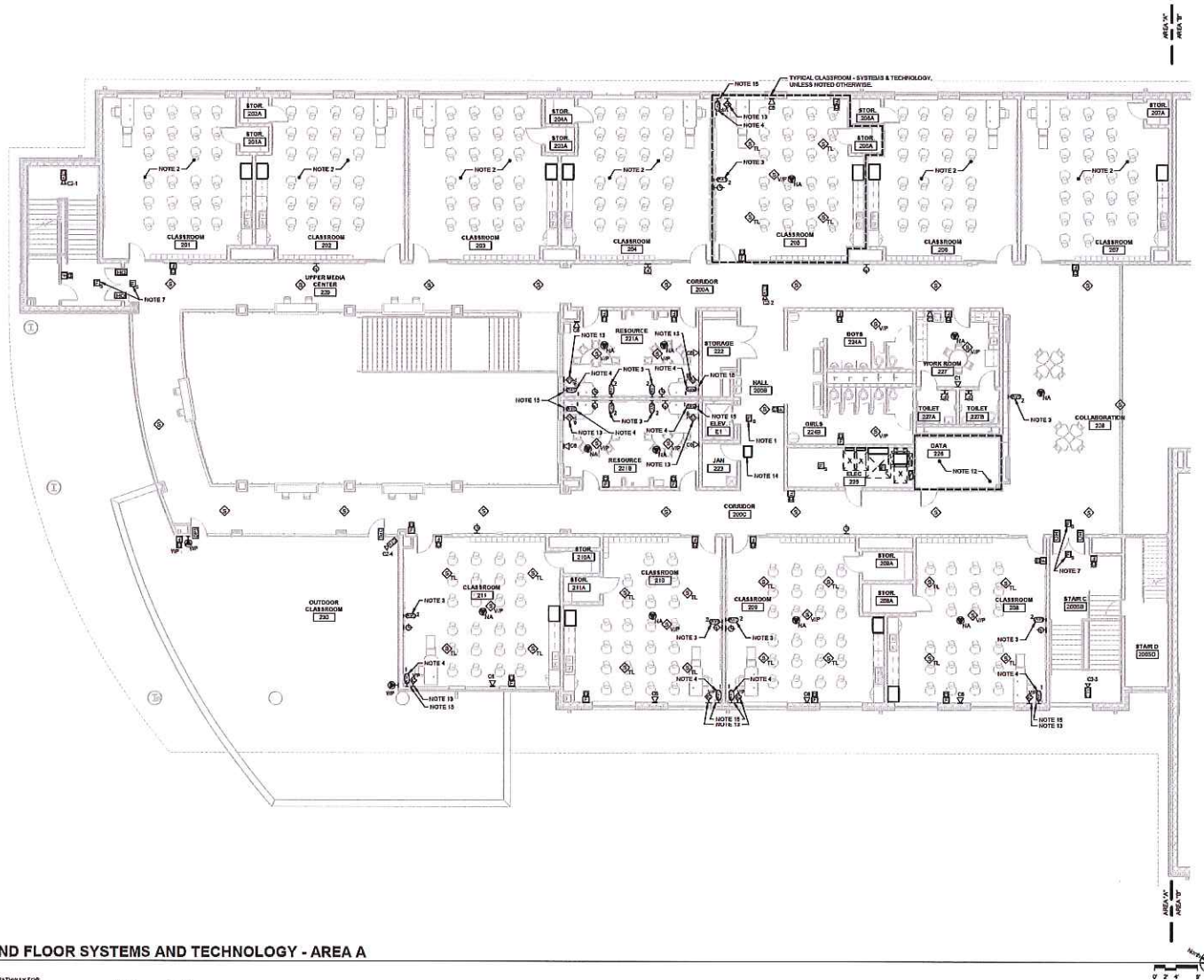
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Sheet title:
FIRST FLOOR SYSTEMS AND TECHNOLOGY PLAN - AREA B

Architect's Project No: 1807-244
Date: October, 2019

Drawing No:

E3.1b



- NOTES:**
1. PROVIDE MATERIALS, EQUIPMENT, AND LABOR REQUIRED AND INTERCONNECT WITH FIRE DETECTOR, FIRE ALARM SYSTEM, AND ELEVATOR CONTROLLER TOGETHER AS REQUIRED TO PROVIDE ELEVATOR RECALL FUNCTION.
 2. REFER TO "TYPICAL CLASSROOM - SYSTEMS & TECHNOLOGY", THIS SHEET, FOR ADDITIONAL REQUIREMENTS.
 3. AUDIO/VIDEO OUTLET AT SMART BOARD. REFER TO AN OUTLET CONFIGURATION DETAIL, SHEET E.1.1, FOR ADDITIONAL REQUIREMENTS. PROVIDE TWO (2) CONDUIT FROM OUTLET TO ABOVE CEILING CAVITY AND BUS BAR END. REFER TO INFORMATION OUTLET CONDUIT DETAIL, SHEET E.1.1, AND TYPICAL SMART BOARD AND OUTLET ELEVATION, SHEET E.1.1, FOR ADDITIONAL REQUIREMENTS AND LOCATIONS.
 4. AUDIO/VIDEO OUTLET AT TEACHERS DESK. REFER TO AN OUTLET CONFIGURATION DETAIL, SHEET E.1.1, FOR ADDITIONAL REQUIREMENTS. PROVIDE TWO (2) CONDUIT FROM OUTLET TO ABOVE CEILING CAVITY AND BUS BAR END. REFER TO INFORMATION OUTLET CONDUIT DETAIL, SHEET E.1.1, AND TYPICAL TEACHERS DESK SMART BOARD CONNECTION ELEVATION, SHEET E.1.1, FOR ADDITIONAL REQUIREMENTS AND LOCATIONS.
 5. REFER TO ELECTRICAL GROUNDED SYSTEM DETAILS, SHEET E.1.1, FOR ADDITIONAL REQUIREMENTS.
 6. RECORDING CONDUITS FOR COMMUNICATIONS FEED FROM DATA ROOM 122 CONDUIT SHALL TERMINATE 8" ABOVE FINISHED FLOOR IN ROOM 221 AND 8" BELOW FINISHED CEILING IN ROOM 126. 8/32" CONDUIT ONLY.
 7. PROVIDE MATERIALS AND LABOR AS REQUIRED AND INTERCONNECT SMOKE DETECTOR WITH DC24V HOLD-OPEN DEVICES AS REQUIRED TO RELEASE POWER TO DOOR HOLD-OPEN DEVICES AND ALLOW DOORS TO CLOSE ON DETECTION OF SMOKE.
 8. PROVIDE 3/4" THICK BY 6" HIGH PLYWOOD FOR THE ENTIRE LENGTH OF WALL. INSTALL BOTTOM OF PLYWOOD APPROXIMATELY 1" OFF FLOOR. PAINT PLYWOOD TO MATCH ROOM WITH FIRE RESISTANT PAINT PRIOR TO INSTALLATION OF EQUIPMENT.
 9. CABLE TRAY, TYPICAL. BOND ALL CABLE TRAYS TO EACH OTHER AND TO THE GROUND BUS BAR USING #8 AND INSULATED COPPER CABLE.
 10. DATA RACK. BOND RACKS TO EACH OTHER AND TO THE GROUND BUS BAR USING #8 AND INSULATED COPPER CABLE.
 11. PROVIDE A QUANTITY OF FOUR (4) CONDUITS THROUGH WALL FOR ROUTING OF LOW VOLTAGE CABLES AND 8/32" BUS CONDUIT ENDS.
 12. REFER TO "SECOND FLOOR ENLARGED DATA ROOM - AREA A", THIS SHEET, FOR ADDITIONAL REQUIREMENTS.
 13. INTERCOM SYSTEM TEACHER STATION. COORDINATE EXACT LOCATION WITH OWNER AND ARCHITECTURAL ELEVATIONS. INTERCONNECT WITH INTERCOM RECEPTION STATION FOR COMMUNICATION TO GENERAL OFFICE 120 RECEPTION DESK.
 14. PROVIDE EQUIPMENT, MATERIALS, CONDUITS, AND LABOR AS REQUIRED TO MOUNT FLUO, TAMPERS, AND PRESSURE SWITCHES FOR THE DRY PIPE FIRE SUPPRESSION SYSTEM. INTERCONNECT WITH THE DRY PIPE FIRE PROTECTION SYSTEM AND THE BUILDING FIRE ALARM SYSTEM AS REQUIRED FOR CORRECT OPERATION. COORDINATE THE INSTALLATION LOCATION WITH THE FIRE PROTECTION SYSTEM PROVIDER PRIOR TO START OF WORK.
 15. WALL MOUNTED TEACHING SYSTEM DEVICE. REFER TO "TYPICAL TEACHERS DESK SMART BOARD CONNECTION ELEVATION DETAIL", THIS SHEET, FOR ADDITIONAL REQUIREMENTS.

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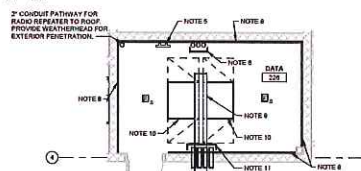
Architect
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101 Second Street
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AREA A **AREA B**

SECOND FLOOR SYSTEMS AND TECHNOLOGY - AREA A

1/8" = 1'-0"

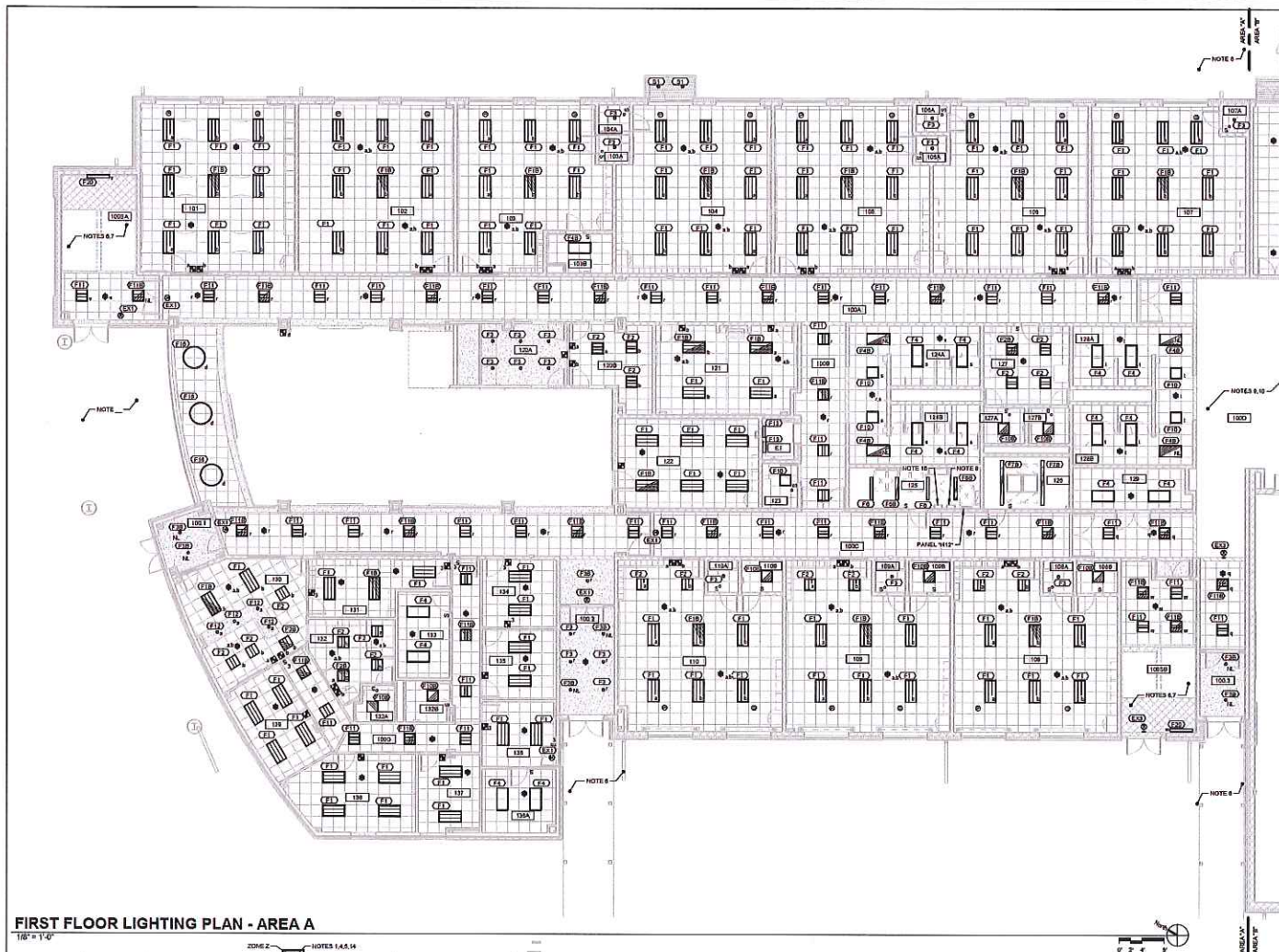


SECOND FLOOR ENLARGED DATA ROOM - AREA A

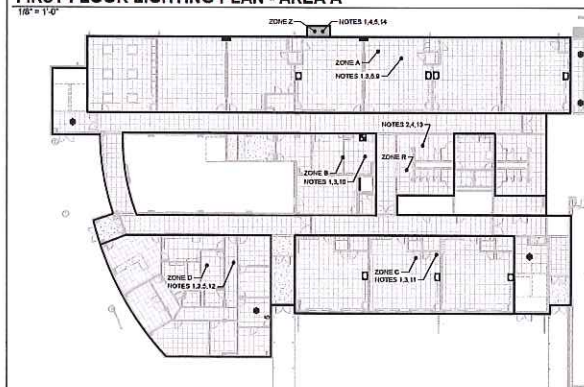
1/4" = 1'-0"



E3.2



FIRST FLOOR LIGHTING PLAN - AREA A



FIRST FLOOR CIRCUIT PLAN - AREA A

GENERAL LIGHTING NOTES:

1.1. COMMISSIONING CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH OWNER AND COMMISSIONING AGENCY. COMMISSIONING AGENCY ELECTRICAL SYSTEM RESPONSIBILITIES WILL INCLUDE FUNCTIONAL TESTING OF THE LIGHTING SYSTEM AND ASSOCIATED CONTROLS SUCH AS OCCUPANCY SENSORS, TIME SWITCHES, PROGRAMMABLE SCHEDULE CONTROLS, PHOTOSENSORS, DAYLIGHTING CONTROLS AND FUNCTIONAL TESTING OF INTEGRATION OF LIGHTING SYSTEM INTO THE BUILDING MANAGEMENT SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY DEFICIENCIES IN THE ELECTRICAL SYSTEM FOUND DURING COMMISSIONING. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL COMMISSIONING RESPONSIBILITIES.

NOTES:

1. SEE SHEET E4.1 FOR ADDITIONAL REQUIREMENTS.
2. CONNECT THRU LIGHTING CONTROL PANEL "TELOP" USE #10 AWG ENTIRE LENGTH OF RUN. SEE LIGHTING CONTROL SCHEDULE, SHEET E4.1 FOR ADDITIONAL REQUIREMENTS.
3. PROVIDE ADDITIONAL "WHITCHIEP" PHASE CONDUCTOR FOR CORRECT OPERATION OF LIGHTING FIXTURES WITH INTERNAL BATTERY BACK-UP SYSTEM AND FIXTURES INDICATED TO BE CONNECTED AS "NIGHT LIGHTING".
4. ROUTE THRU SITE LIGHTING CONTROL PANEL AND CONNECT TO THE "ON/OFF" SWITCH OFF DOORWAY SWITCHING EXCEPT FOR LIGHTING FIXTURES FROM THE "DOORWAY" CIRCUIT AS INDICATED. SEE BUILDING EXTERIOR AND SITE LIGHTING CONTROL LAYOUT DIAGRAM, SHEET E4.2, FOR ADDITIONAL REQUIREMENTS.
5. UTILIZE #10 AWG FOR ENTIRE LENGTH OF RUN.
6. REFER TO SHEET E4.1, SECOND FLOOR LIGHTING PLAN - AREA A, FOR ADDITIONAL REQUIREMENTS IN THIS AREA.
7. CONNECT TO ADDITIONAL LIGHTING CONTROL DEVICES LOCATED WITHIN ROOM AT SECOND FLOOR LEVEL. REFER TO SHEET E4.2, SECOND FLOOR LIGHTING PLAN - AREA A, FOR ADDITIONAL REQUIREMENTS.
8. BUILDING LIGHTING CONTROL PANEL "TELOP" FOR CONTROL OF INTERIOR "COMMON AREA" SPACES. SEE SHEET E4.1 FOR ADDITIONAL REQUIREMENTS. LIGHTING CONTROL PANEL SHALL TURN "ON" AND HOLD "ON" COMMON AREA LIGHTING FIXTURES DURING NORMAL SCHOOL HOURS. AFTER NORMAL SCHOOL HOURS, COMMON AREA LIGHTING SHALL BE CONTROLLED VIA OCCUPANCY SENSORS. PROVIDE DESIGNATED BRANCH CIRCUIT FROM PANEL "W12", CIRCUIT 2, USED 2P 2C, 14/0, 90° BEND.
9. PROVIDE BRANCH CIRCUIT FOR ZONE A FROM PANEL "W12", CIRCUIT 18.
10. PROVIDE BRANCH CIRCUIT FOR ZONE B FROM PANEL "W12", CIRCUIT 21.
11. PROVIDE BRANCH CIRCUIT FOR ZONE C FROM PANEL "W12", CIRCUIT 24.
12. PROVIDE BRANCH CIRCUIT FOR ZONE D FROM PANEL "W12", CIRCUIT 26.
13. PROVIDE BRANCH CIRCUIT FOR ZONE E FROM PANEL "W12", CIRCUIT 28.
14. PROVIDE BRANCH CIRCUIT FOR ZONE F FROM PANEL "W12", CIRCUIT 30.
15. BUILDING SITE LIGHTING CONTROL PANEL "TELOP" FOR CONTROL OF EXTERIOR "COMMON AREA" SPACES. SEE SHEET E4.1 FOR ADDITIONAL REQUIREMENTS. LIGHTING CONTROL PANEL SHALL TURN "ON" AND HOLD "ON" COMMON AREA (CORRIDOR) LIGHTING FIXTURES DURING NORMAL SCHOOL HOURS. AFTER NORMAL SCHOOL HOURS, CORRIDOR LIGHTING SHALL BE CONTROLLED VIA OCCUPANCY SENSORS. PROVIDE DESIGNATED BRANCH CIRCUIT FROM PANEL "W12", CIRCUIT 4, USED 2P 2C, 14/0, 90° BEND.

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Sheet Title:
FIRST FLOOR LIGHTING PLAN
- AREA A

Architect's Project No.: 1807-244
Date: October, 2019
Drawing No:

E4.1a

FIRST FLOOR CIRCUIT PLAN - AREA B

1" = 20'-0"



FIRST FLOOR LIGHTING PLAN - AREA B

1/8" = 1'-0"



GENERAL LIGHTING NOTES:

1. COMMISSIONING CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH OWNER, COMMISSIONING AGENT, COMMISSIONING AGENT ELECTRICAL, SYSTEM RESPONSIBILITIES WILL INCLUDE FUNCTIONAL TESTING OF THE LIGHTING SYSTEMS AND ASSOCIATED CONTROLS SUCH AS OCCUPANCY SENSORS, TIME SWITCHES, PROGRAMMABLE SCHEDULE CONTROLS, PHOTOSENSORS, DIMMING CONTROLS AND FUNCTIONAL TESTING OF INTEGRATION OF LIGHTING SYSTEMS INTO THE BUILDING MANAGEMENT SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE FOR FORTHCOMING ANY DEFICIENCIES IN THE ELECTRICAL SYSTEM FOUND DURING COMMISSIONING. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL COMMISSIONING RESPONSIBILITIES.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ALTERNATE REFLECTED PLAN FOR CAPTURA, CIRCUITS AND FIXTURES COUNT TO REMAIN THE SAME.

NOTES:

1. LIGHT SWITCH FOR STAIRWELL AND HALLWAY LIGHTS. VERIFY EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
2. PROVIDE WIRE GUARD FOR EXIT LIGHTS.
3. SEE SHEET E1.1, FOR ADDITIONAL REQUIREMENTS.
4. PROVIDE ADDITIONAL WIREBUSHING PHASE CONNECTION FOR CORRECT OPERATION OF LIGHTING FIXTURES WITH INTEGRAL BATTERY BACKUP SYSTEM AND FIXTURES INDICATED TO BE CONNECTED AS "HARD" WIRING.
5. PROVIDE WIRE SITE LIGHTING CONTROL PANEL AND CONNECT TO THE "WIRING" TRAIL SWITCH OFF PORTION SWITCHING CIRCUIT. FEED LIGHTING FIXTURES FROM THE "WIRING" CIRCUIT AS INDICATED. SEE BUILDING EXTERIOR AND SITE LIGHTING CONTROL LADDER DIAGRAM, SHEET E1.3, FOR ADDITIONAL REQUIREMENTS.
6. SEE SITE ELECTRICAL PLAN, SHEET E1.1, FOR ADDITIONAL REQUIREMENTS FOR SITE LIGHTING FIXTURES WITHIN THIS GENERAL AREA.
7. COORDINATE AND VERIFY HEIGHT AND INSTALLATION LOCATIONS IN FIELD WITH INSTALLATION OF ALL OTHER TRADES. IN GENERAL, UNLESS REQUIRED TO BE OTHERWISE, FIXTURES SHOULD BE INSTALLED AT APPROXIMATELY 8'-0" P.A.F. TO BOTTOM OF FIXTURES. INSTALLATION LOCATIONS SHOULD BE AS REQUIRED TO MAINTAIN ILLUMINATION ON EQUIPMENT AND AREAS REQUIRING INSPECTION AND MAINTENANCE.
8. UTILITY #10 AWG FOR ENTIRE LENGTH OF RUN.
9. REFER TO SHEET E1.2, SECOND FLOOR LIGHTING PLAN - AREA A, FOR ADDITIONAL REQUIREMENTS FOR THIS AREA.
10. CONNECT TO ADDITIONAL LIGHTING CONTROL DEVICES LOCATED WITHIN ROOM AT SECOND FLOOR LEVEL. REFER TO SHEET E1.2, SECOND FLOOR LIGHTING PLAN - AREA A, FOR ADDITIONAL REQUIREMENTS.
11. CONNECT THRU LIGHTING CONTROL PANEL "WIRING" LOCATED IN ROOM 120. USE #10 AWG ENTIRE LENGTH OF RUN. SEE LIGHTING CONTROL SCHEDULE, SHEET E1.1, FOR ADDITIONAL REQUIREMENTS.
12. PROVIDE BRANCH CIRCUIT FOR ZONE E FROM PANEL "W11", CIRCUIT 1.
13. PROVIDE BRANCH CIRCUIT FOR ZONE F FROM PANEL "W11", CIRCUIT 2.
14. PROVIDE BRANCH CIRCUIT FOR ZONE G FROM PANEL "W11", CIRCUIT 3.
15. PROVIDE BRANCH CIRCUIT FOR ZONE H FROM PANEL "W11", CIRCUIT 4.
16. PROVIDE BRANCH CIRCUIT FOR ZONE Y FROM PANEL "W11", CIRCUIT 5.
17. LIGHT FIXTURES FOR THIS AREA ARE CONTROLLED BY DIMMING SWITCHES LOCATED IN ROOM 154. REFER TO SECOND FLOOR LIGHTING PLAN - AREA A, SHEET E1.2, FOR ADDITIONAL REQUIREMENTS AND LIGHT FIXTURE LOCATIONS.

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Sheet title:
FIRST FLOOR LIGHTING PLAN
- AREA B

Architect's Project No: 1807-244
Date: October, 2019
Drawing No:

E4.1b

GENERAL LIGHTING NOTES:

1. CONSULT/COORDINATE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH OTHER CONSULTING AGENCIES. CONSULTING AGENCIES SHALL BE RESPONSIBLE FOR PROVIDING FUNCTIONAL REQUIREMENTS OF THE LIGHTING SYSTEMS AND ASSOCIATED CONTROLS SUCH AS OCCUPANCY SENSORS, TIME SWITCHES, PROGRAMMABLE SCHEDULE CONTROLS, PHOTOSENSORS, DASHING CONTROLS AND FUNCTIONAL TESTING OF INSTALLATION OF LIGHTING SYSTEMS INTO THE BUILDING MANAGEMENT SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY DIFFICULTIES IN THE ELECTRICAL, PLUMBING OR MECHANICAL COMPARTMENTS. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL COORDINATING RESPONSIBILITIES.

NOTES:

- SEE SHEET E4.1 FOR ADDITIONAL REQUIREMENTS.
- PROVIDE ADDITIONAL "UNSWITCHED" PHASE CONDUCTOR FOR CORRECT OPERATION OF LIGHTING FIXTURES WITH REMOTE BATTERY BACKUP SYSTEMS AND FIXTURES INDICATED TO BE CONNECTED AS "HARD WIRING".
- ROUTE TRUNK WIRE LIGHTING CONTROL PANEL AND CONDUIT TO THE "TRUNK TO DASH" ON 1-2 SWITCHING CIRCUIT. SEE BUILDING EXTERIOR AND SITE LIGHTING CONTROL LADDER DIAGRAM, SHEET E4.1, FOR ADDITIONAL REQUIREMENTS.
- COORDINATE MOUNTING HEIGHT AND INSTALLATION LOCATIONS IN FIELD WITH INSTALLATION OF ALL OTHER TRADES. IN GENERAL, UNLESS REQUIRED TO BE OTHERWISE, FIXTURES SHOULD BE INSTALLED AT APPROXIMATELY 8' A.F.F. TO BOTTOM OF FIXTURES. INSTALLATION LOCATIONS SHOULD BE AS REQUIRED TO MAINTAIN ILLUMINATION ON EQUIPMENT AND AREAS REQUIRING INSPECTION AND MAINTENANCE.
- REFER TO SHEET E4.1a, FIRST FLOOR LIGHTING PLAN - AREA A, FOR ADDITIONAL REQUIREMENTS IN THIS AREA.
- CONNECT TO ADDITIONAL LIGHTING CONTROL DEVICES LOCATED WITHIN ROOM AT FIRST FLOOR LEVEL. REFER TO SHEET E4.1a, FIRST FLOOR LIGHTING PLAN - AREA A, FOR ADDITIONAL REQUIREMENTS.
- CONNECT THROUGH LIGHTING CONTROL PANEL "RELAY" LOCATED IN ROOM 120 ON THIS FLOOR. USE IN ANY OTHER LOCATIONS OF ROOM 120 LIGHTING CONTROL SCHEDULE, SHEET E4.1, FOR ADDITIONAL REQUIREMENTS.
- PROVIDE BRANCH CIRCUIT FOR ZONE H FROM PANEL "H11", CIRCUIT 20.
- PROVIDE BRANCH CIRCUIT FOR ZONE J FROM PANEL "H12", CIRCUIT 22.
- PROVIDE BRANCH CIRCUIT FOR ZONE K FROM PANEL "H12", CIRCUIT 24.
- PROVIDE BRANCH CIRCUIT FOR ZONE L FROM PANEL "H12", CIRCUIT 26.
- PROVIDE BRANCH CIRCUIT FOR ZONE Z FROM PANEL "H12", CIRCUIT 28.

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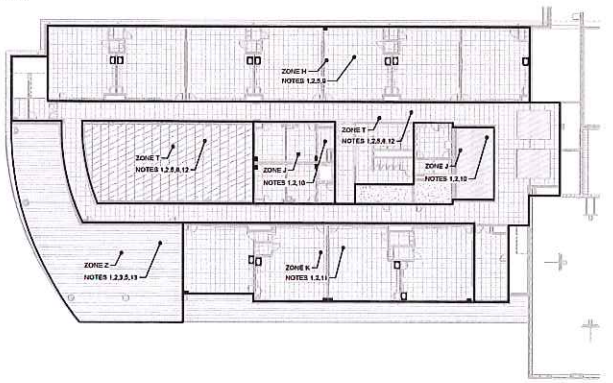
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SECOND FLOOR LIGHTING PLAN - AREA A

Architect's Project No: 1807-244 Date: October, 2019

Drawing No: E4.2a

SECOND FLOOR LIGHTING PLAN - AREA A

1/8" = 1'-0"

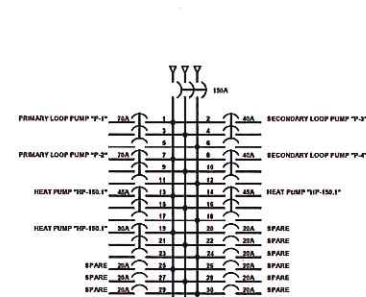


SECOND FLOOR CIRCUIT PLAN - AREA A

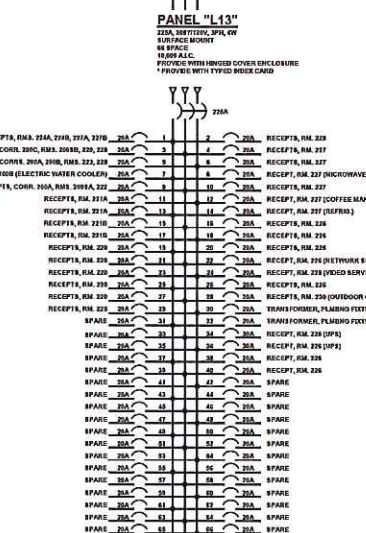
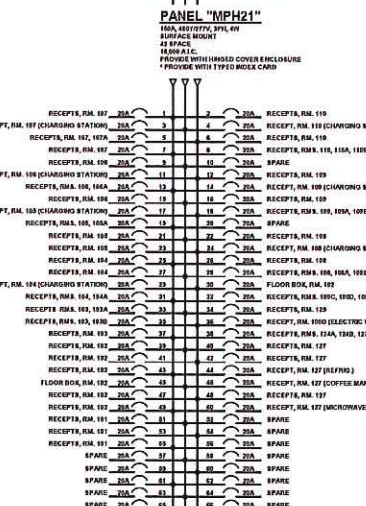
1" = 20'-0"



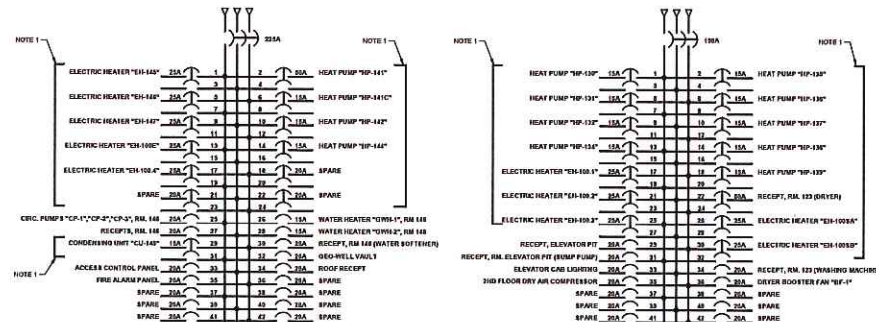




E6.1

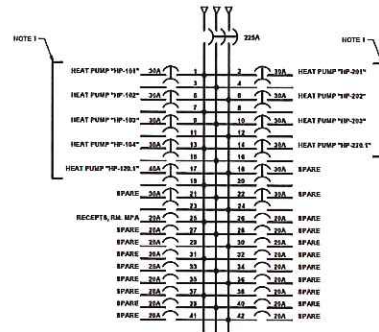


- NOTES:**
1. PROVIDE EACH TYPE CIRCUIT BREAKER
2. PROVIDE GFCI TYPE CIRCUIT BREAKER

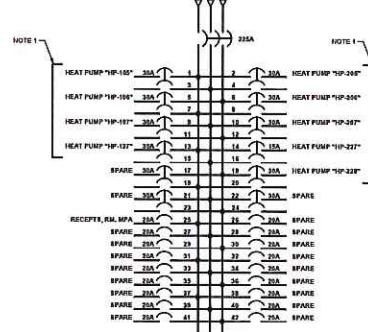


PANEL "M11"
250A, 280/110V, 3PH, 4W
SURFACE MOUNT
42 SPACES
PROVIDE WITH HINGED COVER ENCLOSURE
PROVIDE WITH TYPED INDEX CARD

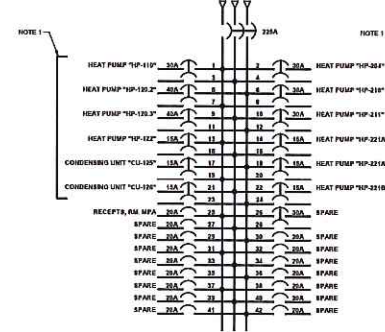
PANEL "M12"
100A, 280/110V, 3PH, 4W
SURFACE MOUNT
30 SPACES
PROVIDE WITH HINGED COVER ENCLOSURE
PROVIDE WITH TYPED INDEX CARD



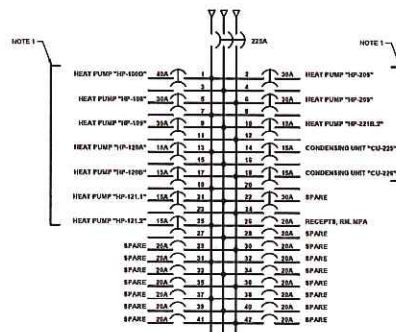
PANEL "MP21"
250A, 280/110V, 3PH, 4W
SURFACE MOUNT
42 SPACES
PROVIDE WITH HINGED COVER ENCLOSURE
PROVIDE WITH TYPED INDEX CARD



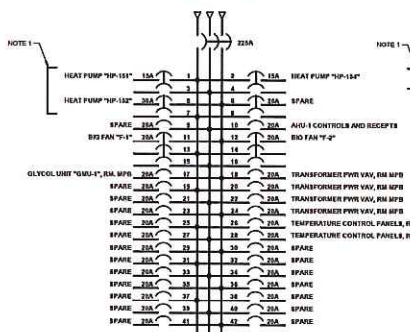
PANEL "MP22"
250A, 280/110V, 3PH, 4W
SURFACE MOUNT
42 SPACES
PROVIDE WITH HINGED COVER ENCLOSURE
PROVIDE WITH TYPED INDEX CARD



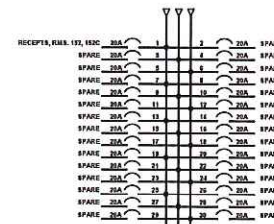
PANEL "MP23"
250A, 280/110V, 3PH, 4W
SURFACE MOUNT
42 SPACES
PROVIDE WITH HINGED COVER ENCLOSURE
PROVIDE WITH TYPED INDEX CARD



PANEL "MP24"
250A, 280/110V, 3PH, 4W
SURFACE MOUNT
42 SPACES
PROVIDE WITH HINGED COVER ENCLOSURE
PROVIDE WITH TYPED INDEX CARD



PANEL "MP25"
250A, 280/110V, 3PH, 4W
SURFACE MOUNT
42 SPACES
PROVIDE WITH HINGED COVER ENCLOSURE
PROVIDE WITH TYPED INDEX CARD



PANEL "SL1"
100A, 280/110V, 3PH, 4W
SURFACE MOUNT
30 SPACES
PROVIDE WITH HINGED COVER ENCLOSURE

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Revisions	Description	Date

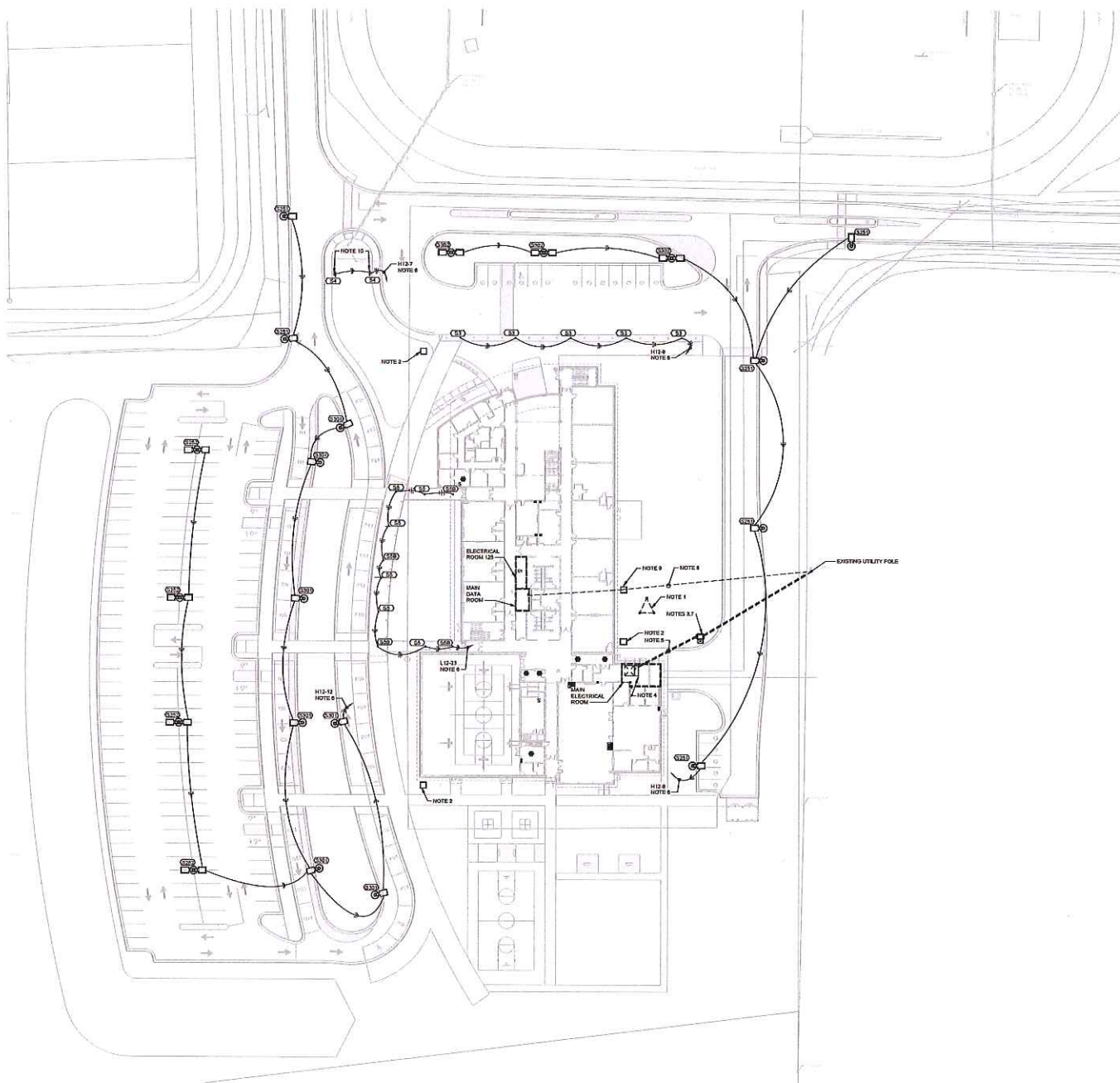
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Sheet title:
**BUSSING
DIAGRAMS(CONTINUED)**

Architect's Project No: 1807-244
Date: October, 2019

Drawing No: **E6.2**



NOTES:

1. BUILDING GROUNDING ELECTRODE SYSTEM REFER TO BUILDING GROUND ELECTRODE SYSTEM DETAIL, SHEET E1.1, FOR ADDITIONAL REQUIREMENTS.
2. HANDHOLE FOR POWER TO SITE. PROVIDE A QUANTITY OF TWO, 1/4" CONDUITS FROM FUTURE IN ADDITION TO THE REQUIRED RACEWAYS FROM THE SITE TO THE MAIN ELECTRICAL ROOM. REFER TO HANDHOLE DETAIL, SHEET E1.1, FOR ADDITIONAL REQUIREMENTS. PROVIDE A MINIMUM OF 20' LB TEST PULL STRONG IN SPACE CONDUITS. VERIFY EXACT LOCATION OF HANDHOLE WITH ENGINEER AND SITE DESIGNER IN FIELD.
3. APPROXIMATE LOCATION OF UTILITY FURNISHED PAD MOUNT TRANSFORMER. COORDINATE EXACT LOCATION WITH HES, PRIOR TO ROUGH-IN.
4. BUILDING MAIN GROUND BAIL REFER TO BUILDING GROUND ELECTRODE SYSTEM DETAIL, SHEET E1.1, FOR ADDITIONAL REQUIREMENTS.
5. CONDUITS FROM UTILITY TRANSFORMER TO DISCONNECTED. REFER TO ONE-LINE DIAGRAM, SHEET E1.1, FOR ADDITIONAL REQUIREMENTS.
6. CONNECT SITE LIGHTING THROUGH LIGHTING CONTROL PANEL, LCP-17, WITHIN MAIN ELECTRICAL ROOM. REFER TO LIGHTING CONTROL DIAGRAM, SHEET E1.4, FOR ADDITIONAL REQUIREMENTS.
7. UTILITY METER MOUNTED IN-DOOR TO TRANSFORMER. PROVIDE TUBE METALIC SUPPORT STRUCTURE AS REQUIRED FOR MOUNTING OF UTILITY METER. MAIN STRUCTURE TO BE CONCRETE. PROVIDE CT CABLES AND METER SOCKET PER ANSI STANDARDS. VERIFY EXACT LOCATION OF SUPPORT STRUCTURE WITH HES AND ENGINEER PRIOR TO ROUGH-IN.
8. QUANTITY OF THREE, 4" PVC CONDUITS WITH PULS STOPS FROM MAIN DATA ROOM TO UTILITY EXHAUST ALONG THE PROPERTY EDGE OF THE PROPERTY FOR LOW VOLTAGE SERVICE TO THE BUILDING. VERIFY EXACT LOCATION WITH SERVICE PROVIDER PRIOR TO ROUGH-IN. REFER TO SITE CIVIL PLANS FOR EXACT LOCATION OF EXHAUST AND DISTANCE OF EXHAUST FROM THE BUILDING. ALL 90 DEGREE ELBOWS SHALL BE SWEEPED ANGLES.
9. DISCONNECT FOR LOW VOLTAGE SERVICE TO BUILDING. REFER TO HANDHOLE DETAIL, SHEET E1.1, FOR ADDITIONAL REQUIREMENTS. PROVIDE A MINIMUM OF 20' LB TEST PULL STRONG IN SPACE CONDUITS. VERIFY EXACT LOCATION OF HANDHOLE WITH ENGINEER AND SITE DESIGNER IN FIELD.
10. VERIFY EXACT LOCATION OF FLAG POLE AND LIGHT FIXTURES WITH SITE CIVIL ENGINEER AND OWNER PRIOR TO ROUGH-IN.

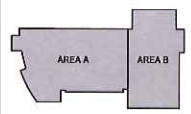
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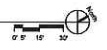
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Sheet title:
ELECTRICAL SITE PLAN - AREA A

Architect's Project No.: 1807-244
Date: October, 2019
Drawing No:

E7.1

ELECTRICAL SITE PLAN AREA A
1" = 30'-0"



1. ROUTE THROUGH SPARE CIRCUIT BREAKER IN CONCESSION STAND AND PHOTOCELL.
2. PROVIDE DAWN-TO-DUSK PHOTO CELL ON OUTSIDE OF BUILDING FOR CONTROL OF NEW SITE LIGHTING. VERIFY EXACT LOCATION WITH ENGINEER PRIOR TO ROUGH-IN.
3. AREA WITHIN DASHED LINE SHALL BE DEDUCTED FROM BASE BID IF ACCEPTED AS ALTERNATE #4.



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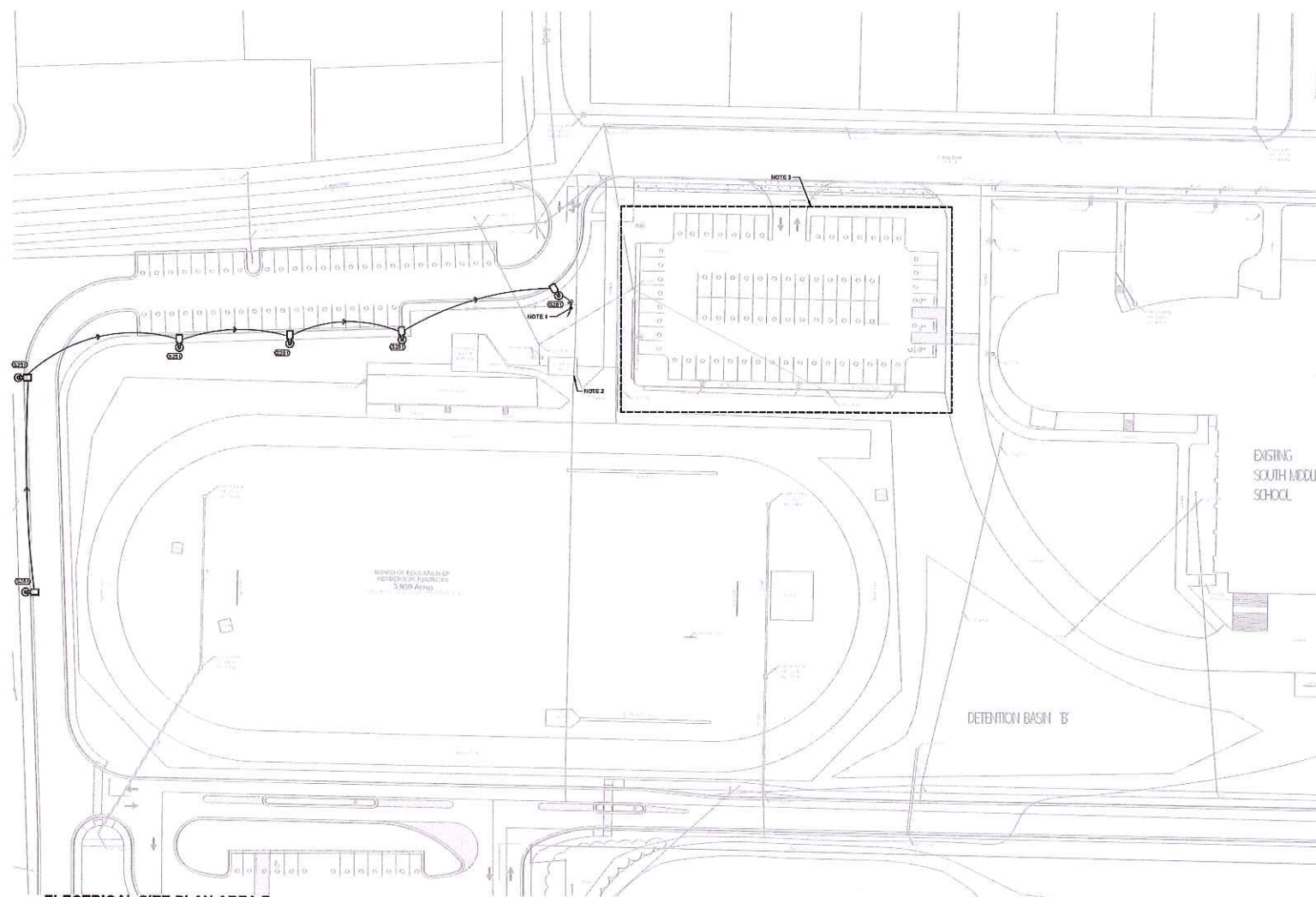
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**ELECTRICAL SITE PLAN -
AREA B**

Architect's Project No: 1807-244 Date: October, 2019

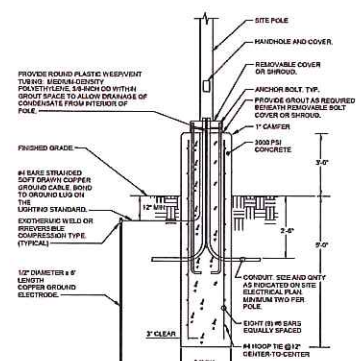
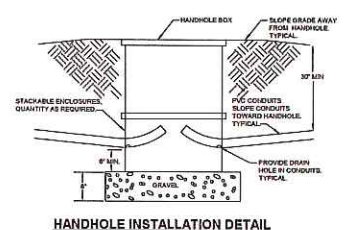
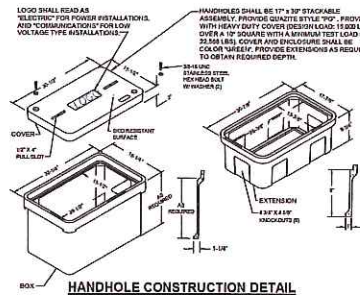
Drawing No:

E7.2

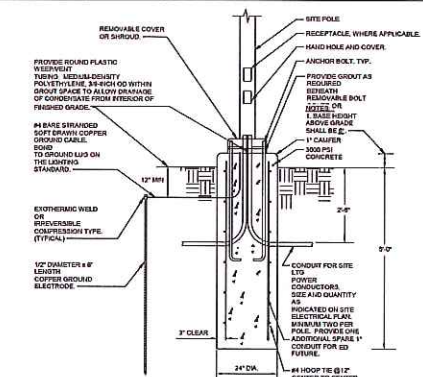


ELECTRICAL SITE PLAN AREA B

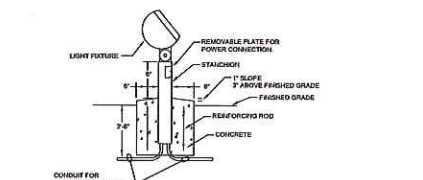
$$1^{\circ} = 30' - 0''$$

**LIGHTING POLE BASE DETAIL - (PARKING LOT)
FIXTURE AND POLE TYPE "S251" & "S252"**
NO SCALE



**LIGHTING POLE BASE DETAIL - LAWN AREAS
FIXTURE & POLE TYPE "S301" & "S302"**
NO SCALE



**FIXTURE TYPE "S3"
MOUNTING DETAIL**
NO SCALE

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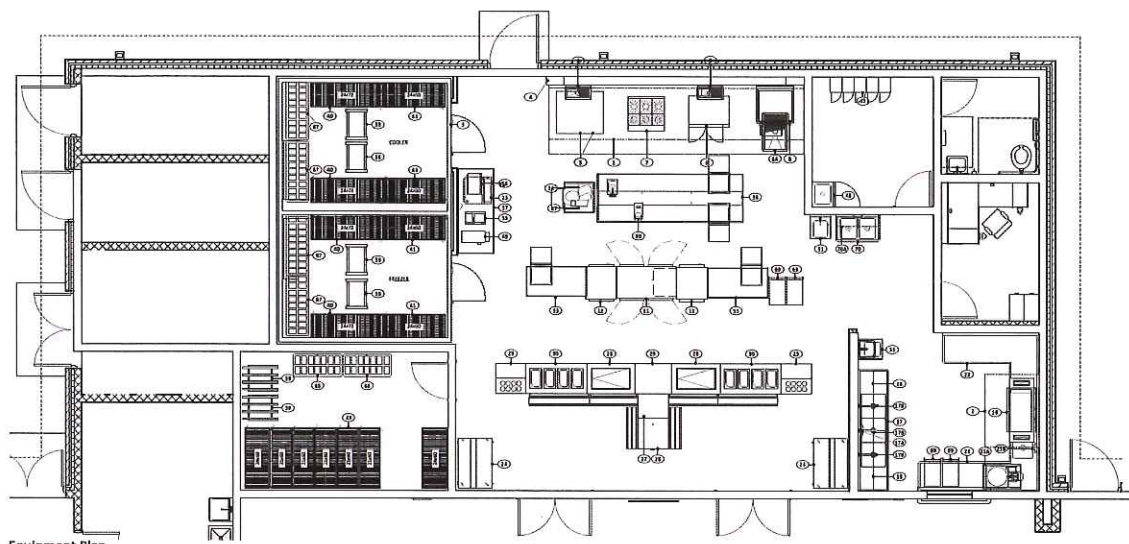
Sheet title:

SITE DETAILS

Architect's Project No: 1807-244 Date: October, 2019

Drawing No:

E7.3



EQUIPMENT LIST			
ITEM NO.	QTY	ITEM DESCRIPTION	ITEM REMARKS
1	1	BRACKET-ROOF SYSTEM	
2	1	BRACKET-ROOF	
3	1	ROOF-RAIL-HEATED	
4	1	CONDENSATE DRAIN	
5	1	CONDENSATE EXHAUST FAN	
6	1	WATER-RESISTANT FLEXIBLE	
7	1	COVER DOOR	
8	1	COVER COMPRESSOR	
9	1	PAVING CEMENT	
10	1	COVER COMPRESSOR	
11	1	ICE PISTON	
12	1	DRYER-DRYER-STACKED	
13	1	CONNECTOR-ROOF-SAN DRAIN	
14	2	ROOF RAIN GUTTER	
15	2	VENTILATION DUCT	
16	1	WATER-RESISTANT FLEXIBLE	
17	1	PAVING CEMENT	
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100	1	PAVING CEMENT	

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Sheet title

EQUIPMENT
PLAN

Architect's Project No:	Date:
1807-244	October, 2019
Drawing No:	

K1.1

1. ELECTRICAL SYSTEM IS DESIGNED FOR 120/240VAC 60 HZ 3-PHASE, 4 WIRE AT 100 AMP.
2. OUTLETS AND BONDING WIRING PREFER TO BE AND ARE FOR FOOD SERVICE PURPOSES AND EQUIPMENT ONLY. SEE ARCHITECTURAL LABORATORY FOR INFORMATION ON ANY ADDITIONAL POWER REQUIREMENTS.
3. THE ELECTRICAL PLAN IS INTENDED TO SHOW AROUND LOCATIONS AND LOAD REQUIREMENTS. ALL DRINKING FOUNTAINS ARE SHOWN FROM FUTURE DRAINAGE TO THE CENTERLINE OF THE ROOM OR LOCATION OF THE FOUNTAIN.
4. SMALLEST OFFERING METERS, ALL ELECTRICAL WIRING FOR A FABBRISS FOODSERVICE EQUIPMENT SHALL BE COMPLETED WITHIN 10 BUSINESS EQUATIONS EQUIPMENT TO A FUNCTION BOX OR SHALL BE MOUNTED ON A FUNCTION BOX AND ACCESS TO THE EQUIPMENT. FABBRISS EQUIPMENT TO PANEL SHALL BE TO THE RESPONSIBILITY OF THE E.C.
5. FINAL CONNECTIONS TO ALL EQUIPMENT AND ALL REQUIRED MATERIALS TO BE THE RESPONSIBILITY OF THE E.C.
6. E.C. TO FURNISH AND INSTALL THE FOLLOWING:
 - A. ALL FUNCTION BOXES, ELECTRICAL OUTLETS, COVER PLATES, ETC., NOT BUILT INTO FUTURE OR EXISTING WALLS, OR NOT AVAILABLE. ALL OTHERS, ETC., SHALL BE THE RESPONSIBILITY OF THE ARCHITECT. ALL MATERIALS, SPECIFICATIONS, SCHEDULES, SHALL BE ACHORD PRICE.
7. SUPPLY FOR ALL CEMENT BASES/CONCRETE OR DISCREPANCIES FOR FINAL COSTS WITHIN 10 BUSINESS EQUATIONS EQUIPMENT TO A FUNCTION BOX OR SHALL BE MOUNTED ON A FUNCTION BOX AND ACCESS TO THE EQUIPMENT. FABBRISS EQUIPMENT TO PANEL SHALL BE TO THE RESPONSIBILITY OF THE E.C.

ABBREVIATIONS

NOTE:
EXISTING AND/OR EQUIPMENT PROVIDED BY OTHERS
MAY REQUIRE ADDITIONAL FOUNDINGS NOT SHOWN IN
THESE PLANS. CONFIRM UTILITY REQUIREMENTS WITH

[illegible][illegible]

SKIN ARCHITECTS
ARCHITECTS
ARCHITECTS
ARCHITECTS

Architect
Skinner Design Associates
81 Second Street
Henderson, KY 42420
Telephone: 370-828-6478

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UTILITY SCHEDULES

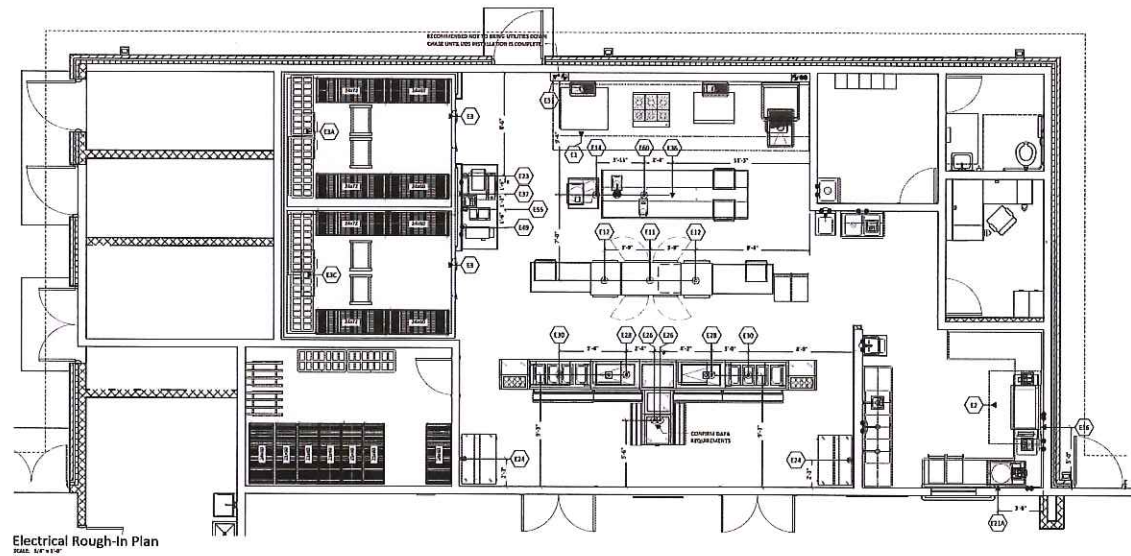
K1.2

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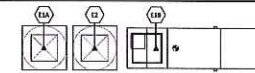
ABBREVIATIONS

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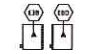
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PROVIDER.



Electrical Rough-In Plan



CONFIRM EXACT LOCATION WITH ARCHITECT



CONFIRM EXACT LOCATION WITH ARCHITECT

ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
	POWER SUPPLY (BATTERY)
	SIMPLE RECTIFIER
	DIODE RECTIFIER
	BRIDGE RECTIFIER
	SPECIAL PURPOSE RECTIFIER
	FLOOD RECTIFIER (FLOOD or FLOODING)
	CABLE RECTIFIER (CABLE or CABLE-CONC)
	ANTENNA ROD
	BARRY CONTACT
	GROUNDING CONTACT
	FIRE PULL STATION
	TELEPHONE IN DATA LINE

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Sheet Title:

Sheet title:

ELECTRICAL ROUGH-IN PLAN

Architect's Project No: _____ Date: _____

1807-244 October, 2019

Drawing No:

K2.1

1. ROUGH-IN'S SHOWN PERTAIN TO AND ARE FOR FOODSERVICE EQUIPMENT AND EQUIPMENT ONLY. SEE ARCHITECTURAL AND/OR ENGINEERING PLANS FOR ADDITIONAL PLUMBING REQUIREMENTS.
2. THIS PLUMBING PLAN IS INTENDED TO SHOW ROUGH-IN LOCATIONS, HEIGHTS AND LOAD REQUIREMENTS. ALL DIMENSIONS SHOWN ARE FROM FINISHED SURFACES TO THE CENTERLINE OF THE ROUGH-IN LOCATION, UNLESS OTHERWISE NOTED.

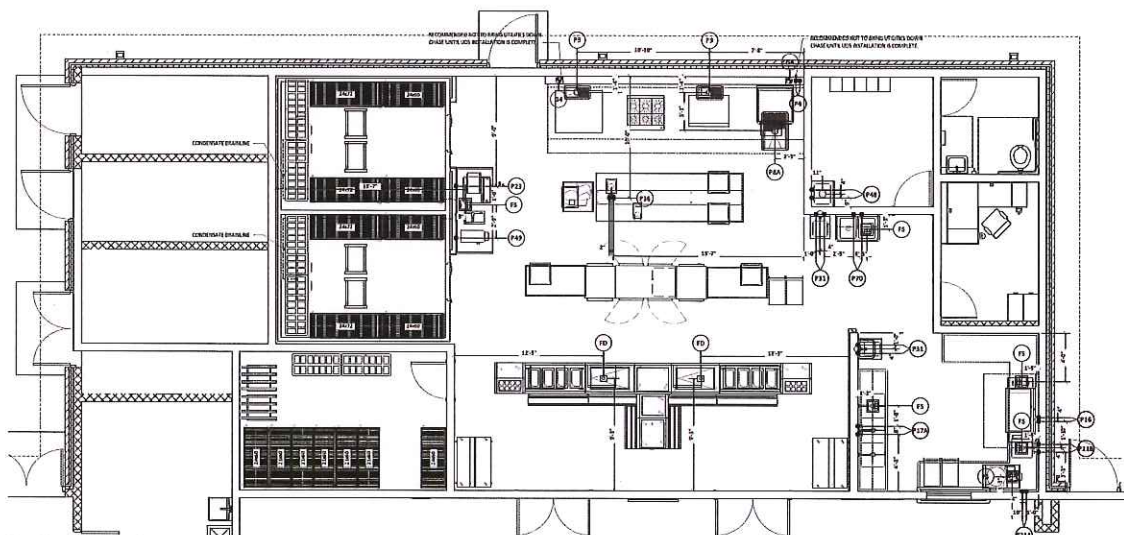
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EXHAUST/ MUA FANS
KAL 14" x 14"



Plumbing Rough-In Plan



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Sheet title:

PLUMBING
ROUGH-IN PLAN

Architect's Project No: 1807-244 Date: October, 2019

Drawing No:

K3.1

SYMBOL	DESCRIPTION
	WATER SERVICE (NOT A COUL)
	GAS SERVICE
	CHILLED WATER (SUPPLY or RETURN)
	DRAIN WASTE
	STEAM SERVICE (SUPPLY or RETURN)
	8" x 8" FLOOR DRAIN (SHOWS w/ WALL BRATE)
	12" x 12" FLOOR DRAIN (SHOWS w/ WALL BRATE)
	FLOOR DRAIN
	FURNACE FLOOR DRAIN
	REAR DRAIN
	BEVERAGE DRAIN (COLD w/ REFR)

A. WALL IN COOLING/HEATING AREA TO BE RECEIVED "A", SEE SHOP DRAWINGS FOR DETAILS.

B. G.C. TO PROVIDE ADEQUATE WALL BACKING FROM 18" AT 8" MAX FOR WALL MOUNTED DOWN FLOOR.

C. G.C. TO PROVIDE ADEQUATE WALL BACKING FROM 18" AT 8" MAX FOR WALL MOUNTED UP FLOOR.

D. G.C. TO PROVIDE ADEQUATE WALL BACKING FROM 36" AT 8" MAX FOR WALL MOUNTED HANG PIPE.

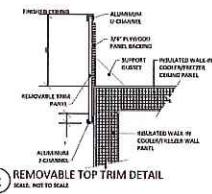
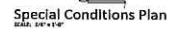
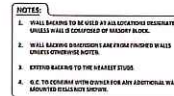
E. G.C. TO PROVIDE ADEQUATE WALL BACKING FROM 36" AT 8" MAX FOR 1" FIVE FINGER FLOOR WALL BACKING.

F. G.C. TO PROVIDE PROPER BRACE FOR WALL FOR FASH-TITE LUGS AND BRACE OF CEILING WITH QUINCE.

G. 1" PVC DUCT CHASE AS REQUIRED FOR SOLAS SYSTEM FROM 18" AT 8" G.C. TO COORDINATE WITH SLOPE VENDOR PRIOR TO INSTALLATION, (SEE DETAIL BUREAU).

H. G.C. TO DO OUT AREA FROM TO POURING OF FLOOR FOR INSTALLATION OF FLOOR THROUGH 8" I.S.C.

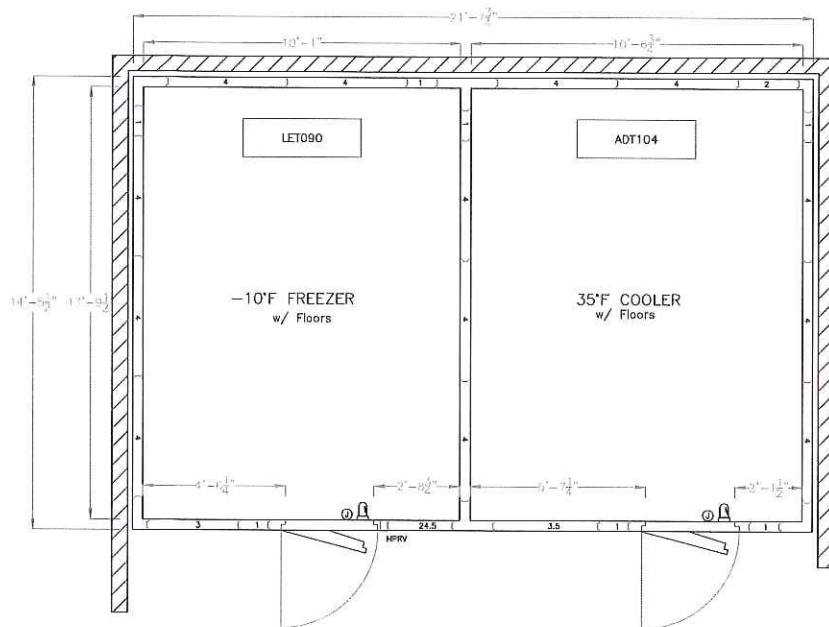
I. G.C. TO PROVIDE ADEQUATE WALL BACKING FROM 72" AT 8" FOR 1" PIPE HOLE REEL.



K4.1

Plan View

Page 1 of 3



Box Accessories:

The largest panel on this job is 46" x 173.5". Verify site restrictions.
**** Verify door hinging and location shown on drawing. Drawing is for illustration purposes only.**

- 2 - Flex Strip Curtain, up to 36" x 77" Opening
- 4 - LED Light Fixture, Cooler & Freezer, 48" 2-lamp (-40°F or higher operating temp.)
- 4 - Door Kickplate, 1/10" aluminum treadplate, 36" High, <37" Door
- 2 - Trim Strips, 3" x 3", to match exterior box finish
- 45 - Closure Panel to match exterior box finish
- 2 - Vision Window, 14" x 14" heated
- 90 - 22 Ga. Galv. Steel Floor Channel in Recess, Replacing Std. Floor Angle
- 23 - 2" thick ure. slab insul. (shipped loose), R=27.4 for 2 layers of 2"
- 1 - Half-Roll of Visqueen (4 MIL) plastic sheeting (500 SF)
- 2 - 18" High Condensing Unit Stand replacing Std.
- 1 - Vert. Beaded Ext. (std>10" Act. HL)
- 2 - IC+ controllers with Wi-Fi & USB

-10°F Freezer, 35°F Cooler

- SPECIFICATIONS-**
- BOX HEIGHT: 8'-8" OVERALL
 - CONSTRUCTION: FOAMED IN PLACE
NSF LISTED, STANDARD NO. 7
 - INSULATION: 4" URETHANE FINISHED PANEL
UL CLASSIFIED FLAME SPREAD 20
CORE SMOKE DEVELOPED 350
 - INSTALLATION: INDOOR
 - FLOOR: FREEZER - FLOORLESS ON ALUMINUM ANGLE(SEE DETAILS)
COOLER - FLOORLESS ON ALUMINUM ANGLE (SEE DETAILS)
 - DOOR HARDWARE & ACCESSORIES: DEADBOLT LOCKING PULL HANDLE W/INSIDE RELEASE
(EXTERIOR DOORS ONLY)
FRAME HEATER WIRE
HYDRAULIC DOOR CLOSER
(2) SYSTEM 100 CONTROLLERS
VAPOR PROOF LIGHT FIXTURE, SCREW-IN TYPE LED
2 - STD. CAM RISE HINGES
0 - PRESSURE RELIEF VENT(S)
 - METAL FINISHES: INTERIOR WALLS - .040 WHITE STUCCO ALUMINUM
INTERIOR CEILING - .040 WHITE STUCCO ALUMINUM
EXPOSED EXTERIOR - 20 GA. STAINLESS STEEL #3 FINISH
UNEXPOSED EXTERIOR - 26 GA. STUCCO ACRYLUME
EXTERIOR CEILING FINISH - 26 GA. STUCCO ACRYLUME
 - REFRIGERATION: UL LISTED, AIR COOLED, OUTDOORS
 - LEFT COMPARTMENT: CONDENSING UNIT: 1 - STD. PRE-ASSEM. REMOTE, 3.50 HP HERMETIC,
MODEL NO. WA2515ZXTAC(203145-9) (R404A)
EVAPORATOR: 1 - MODEL NO. LET090
 - RIGHT COMPARTMENT: CONDENSING UNIT: 1 - STD. PRE-ASSEM. REMOTE, 1.25 HP HERMETIC,
MODEL NO. M6KP-0127-TAC-072 (R404A)
EVAPORATOR: 1 - MODEL NO. ADT104

- REFRIGERATION ACCESSORIES:
- 2 - GALVANIZED WEATHER COVER
 - 2 - STEEL COMPRESSOR MOUNTING STAND
 - 2 - WINTERIZATION CONTROLS /W LISA.



☐ APPROVED	SIGNATURE
☐ APPROVED AS NOTED	PRINT NAME
☐ REVISE & RESUBMIT	DATE

POINT OF ELECTRICAL CONNECTIONS.

LEFT COMPARTMENT	VOLTAGE/PHASE	AMPS
CONDENSING UNIT	208/230/60/3	16.6
EVAPORATOR COIL	208/230/60/1	15.6(Fans)/16.6(Hr)
RIGHT COMPARTMENT		
CONDENSING UNIT	208/230/60/3	8.3
EVAPORATOR COIL	208/230/60/1	1(Fans)/9(Hr)

WALK-IN DOORS: 115v/1φ - 350w

9/5/19 - Changed to Floors in 4" recess w/ Tile -MM-

American Panel
 American Panel Corporation
 5980 S.E. 78th St. Doral, FL 33472
 Ph (352) 245-7855 Fax (352) 245-8726

Project: Thomas Jefferson ES - Henderson,KY

Date: 6/4/2019 Drawn By: MM

Scale: NTS A.P.C. # AD186034

NEW ELEMENTARY SCHOOL



800 S. Albee Street
 Henderson, Kentucky 42420



in association with:

CH2 Engineer
 CH2
 110 North View Street, Suite 10
 Henderson, KY 42420
 Telephone: 270.232.1177
 Facsimile: 270.232.1406

HODGE
 HODGE
 22 Chestnut Street
 Evansville, IN 47713
 Telephone: 812.422.2228
 Facsimile: 812.422.2337

SKINNER
 Skinner Design Associates
 611 Second Street
 New Canaan, NY 42420
 Telephone: 270.232.0410

Owner Review

Not for
 Construction
 10/8/2019
 1:51:12 PM

Revisions:

#	Description	Date

Designed By: **MM** Drawn By: **MM** Checked By: **MM**

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Sheet 006:

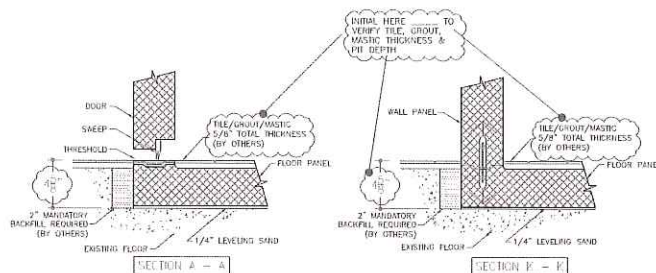
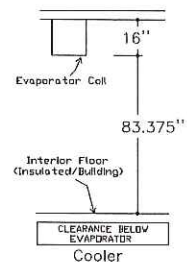
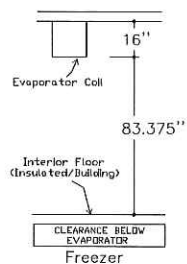
WALK-IN

Architect's Project No: **1807-244** Date: **October, 2019**

Drawing No:

K6.1

Elevation



☐ APPROVED	SIGNATURE
☐ APPROVED AS NOTED	PRINT NAME
☐ REWEG & RESUBMIT	DATE

9/5/19 - Changed to Floors in 4" recess w/ Tile -MM-

American Panel Corporation 9000 S.E. 70th St., Boise, ID 83725 Ph: (208) 243-7855 Fax: (208) 245-0726	
Project: Thomas Jefferson ES - Henderson, KY	
Date: 5/4/2019	Drawn By: MM
Scale: NTS	A.P.C. #: A0186034

NEW ELEMENTARY SCHOOL

HENDERSON COUNTY SCHOOLS
INVESTING IN EXCELLENCE

600 S. Alas Street
 Henderson, Kentucky 42420

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Structural Engineer
HODGE
 Hodge Structural Engineers
 22 Chestnut Street
 Louisville, KY 40202
 Telephone: 502.422.2558
 Facsimile: 502.422.2337

Architect
SKINNER DESIGN ASSOCIATES
 601 Second Street
 Henderson, KY 42420
 Telephone: 502.422.0478

Owner Review

Not for Construction
 10/8/2019
 1:51:12 PM

Revisions:		
#	Description	Date
Designed By:	Drawn By:	Checked By:
ER	MM	ER

Sheet 160:

WALK-IN

Architect's Project No: 1807-244
 Date: October, 2019

Drawing No:

K6.2

This drawing was prepared for Tim Christianson at C & T DESIGN EQUIPMENT CO., INC.

