CONTRACT ADDENDUM # 04

The Work shall be carried out in accordance with the following supplemental instructions issued in accordance with the Contract Documents. Prior to proceeding in accordance with these instructions, indicate your acceptance of these instructions for minor change to the work as consistent with the Contract Documents and return a copy to the Architect.

Items:

Sections:

AD4-01 Spec Section 05 4000 COLD-FORMED METAL FRAMING
ADDED See Attached

AD4-02 Mechanical and Plumbing: See Attached Narrative and Drawings

NOTE: Mechanical drawings show revision delta 2 and associated naming in the title block at Addendum 2. This is a mis-type when the correct reference is Addendum 3. No mechanical drawings or narrative were issued with Addendum 2.

AD4-03 Electrical: See Attached Narrative and Drawings

AD4-04 Kitchen:

Question: The section 114000 food service equipment specification issued in addendum #3 calls out item #K18 to be provided by KEC. The plan sheet K101 shows the ovens to be provided by the school district. Can we get clarification of whether these ovens are to be provided in our bid or not?

Response: The comment with "provided by the school district" should have been deleted. Kitchen equipment contractor is to provide itemized pricing for all equipment specified.
SECTION 05 4000
COLD-FORMED METAL FRAMING

PART 1 GENERAL 1.01 SECTION INCLUDES
A. Formed steel stud exterior wall and interior wall framing.
B. Exterior wall sheathing.
C. Formed steel joist and purlin framing and bridging.

1.02 RELATED REQUIREMENTS
A. Section 04 2001 - Masonry Veneer: Veneer masonry supported by wall stud metal framing.
B. Section 05 3100 - Steel Decking.
C. Section 06 1000 - Rough Carpentry: Wood blocking and miscellaneous framing.
D. Section 07 2100 - Thermal Insulation: Insulation within framing members.
E. Section 07 6200 - Sheet Metal Flashing and Trim: Head and sill flashings.
F. Section 07 9200 - Joint Sealants.
G. Section 09 2116 - Gypsum Board Assemblies: Gypsum-based sheathing.
H. Section 09 5100 - Acoustical Ceilings: Ceiling suspension system.

1.03 REFERENCE STANDARDS
A. AISI S100-12 - North American Specification for the Design of Cold-Formed Steel Structural Members; American Iron and Steel Institute; 2012.
E. ASTM C955 - Standard Specification for Load-Bearing (Transverse and Axial) Steel Studs, Runners (Tracks), and Bracing or Bridging for Screw Application of Gypsum Panel Products and Metal Plaster Bases; 2017.

1.04 ADMINISTRATIVE REQUIREMENTS 1.05 SUBMITTALS
A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
B. Manufacturer's Installation Instructions: Indicate special procedures, conditions requiring special attention, and __________.

PART 2 PRODUCTS 2.01 FRAMING SYSTEM
A. Provide primary and secondary framing members, bridging, bracing, plates, gussets, clips, fittings, reinforcement, and fastenings as required to provide a complete framing system.
2.02 FRAMING MATERIALS
   A. Studs and Track: ASTM C955; studs formed to channel, "C", or "Sigma" shape with punched web; U-shaped track in matching nominal width and compatible height.
      1. Gage and Depth: As indicated on drawings.
      2. Galvanized in accordance with ASTM A653/A653M, G90/Z275 coating.

2.03 FASTENERS
   A. Self-Drilling, Self-Tapping Screws, Bolts, Nuts and Washers: Hot dip galvanized per ASTM A153/A153M.
   B. Anchorage Devices: Powder actuated.

2.04 WALL SHEATHING
   A. Gypsum Board Wall Sheathing: See Section 09 2116.

PART 3 EXECUTION
3.01 INSTALLATION OF STUDS
   A. Install components in accordance with manufacturers' instructions and ASTM C1007 requirements.
   B. Install load bearing studs full length in one piece. Splicing of studs is not permitted.
   C. Install intermediate studs above and below openings to align with wall stud spacing.
   D. Provide deflection allowance in stud track, directly below horizontal building framing at non-load bearing framing.

3.02 INSTALLATION OF JOISTS AND PURLINS
   A. Install framing components in accordance with manufacturer's instructions.
   B. Place joists at 16 inches on center; not more than 2 inches from abutting walls and connect joists to supports using fastener method.

3.03 INSTALLATION OF WALL SHEATHING
   A. Install wall sheathing with long dimension perpendicular to wall studs, with ends over firm bearing and staggered, using self-tapping screws.
      1. Provide steel diagonal bracing at corners with foam insulation or gypsum board wall sheathing.

END OF SECTION
DATE: February 10, 2020

PROJECT NO: 19379

PROJECT: Ellis Elementary School

DIVISION – 22 & 23

GENERAL

The following are answers to questions from the contractor.

1. ME-701; Heating water schematic does not show piping sizes, like the chilled water piping schematic on the same page. Could we get the heating water schematic to include the piping sizes?

   The pipe sizes for the heating water piping system is shown on the plans and will not be shown on the schematic.

2. What type of pipe is required for the 6" pipe from canal diversion box to the boiler room?

   The underground piping is specified in specification section 232113.13 Underground Hydronic Piping.

3. Is the 6" pipe from canal diversion box to the boiler room intended to be responsibility of the site utilities contractor or the plumbing contractor?

   The underground piping is the responsibility of the site utilities contractor.

DRAWINGS

SHEET - ME-607
1. Revise AHU-3 RA as shown.

SHEET - MH111
1. Add return air transfer ducts as shown.
2. Add sound boot to RTU-2.
3. Add sound attenuator to RTU-1.

SHEET - MH-122
1. Modify the duct connections to RTU-3B as shown.

SHEET - MP-112
1. Change pipe sizing as shown.

PRINCIPALS
Electrical: Ryan C. Van Yoast, PE
Civil and Fire Protection: David P. Baranowski, PE
1. General Note 12 shall be modified as follows:

   A. **ALL SUPPLY DUCTWORK FROM AHU TO A DISTANCE OF 25’ SHALL BE 2” INSULATION OVER DOUBLE WALL DUCT. RETURN DUCT INSULATION SHALL BE AS SPECIFIED IN SECTION 230713 DUCT INSULATION.**

   B. **ALL SUPPLY DUCTWORK PAST 25'-0” FROM THE AHU SHALL BE AS SPECIFIED IN SECTION 230713 DUCT INSULATION. ALL SUPPLY DUCT BETWEEN VAV AHU AND VAV-BOXES IS CONSIDERED MEDIUM PRESSURE, AND SHALL BE WRAPPED.**

   C. **ALL DUCTWORK BETWEEN VAV BOX AND THERMAL DISPLACEMENT DIFFUSERS SHALL BE INSULATED PER 230713. CONCEALED ROUND DUCTS SERVING THERMAL DISPLACEMENT DIFFUSERS MAY BE WRAPPED. ALL EXPOSED DUCTWORK SHALL BE INTERNALLY LINED.**

---

**SHEET - ME602**

1. Change boiler power requirements to 208/3/60, 20 AMP.

2. Add note to Hydronic Boiler Schedule and to each boiler as follows: 7. UNIT COMPLETE WITH MOTORIZED ISOLATION VALVE THAT IS ACTUATED BY THE BOILER CONTROLS.

---

**SHEET - ME606**

1. Add sound attenuator schedule.

---

**PRIOR APPROVALS**

The following manufacturers, trade names and products are allowed to bid on a name brand only basis with the provision that they completely satisfy all and every requirement of the drawings, specifications and all addenda shall conform to the design, quality and standards specified, established and required for the complete and satisfactory installation and performance of the building and all its respective parts.

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<tr>
<th>Item</th>
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<th>Comments</th>
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ELECTRICAL ADDENDUM # 4

To: Stephen Williams  From: Philip Borup, BSEE, LC
Company: Design West Architects  Phone: (801) 924-5540
Address: 255 S 300 W, Logan, Ut  Date: February 10, 2020
Project LCSD Ellis Elementary  Project #: 2019-090

The following are addendum changes to the electrical drawings:

SPECIFICATIONS:

Specification Section 28 0730 – Access Control System

1. Basis of design is listed as Pro Data Key and should be Pro Data Key - Cloud Node.

Specification Section 28 1600 – Intrusion Detection

1. For clarification, a full intrusion detection system is not needed. Drawings are showing rough-in only for future motion sensor locations. Security panels are shown for reference. Please provide a junction box at the panel locations with the circuit shown on the drawings.

Specification Section 26 0560 – Network Lighting Control System

1. For clarification, the specification indicates a wireless network system. Wireless is not needed, nor is it preferred. Please provide a wired system.

ADDITIONAL APPROVED MANUFACTURERS / INSTALLERS:

Lighting: The following lighting reps are approved to bid complete lighting packages

1. JRC
2. Quantum
3. Steven Sales
4. Rocky Mountain Lighting

Lighting Controls:

1. nLight
2. Cooper
3. Leviton
4. Wattstopper

Audio / Video (Not Intercom)

1. Gencomm
ADDENDUM

DRAWINGS:

Sheet E-100.1 – Site Plan – Electrical

1. Fixture callout for site poles changed to F22.
2. Linear exterior lighting added around some roof edges to light upper EIFS.

Sheet E-111.1 – Main Floor Plan Area A - Lighting

1. Light fixtures in ESL A123 have been labeled.
2. Wall pack was deleted.

Sheet E-111.3 – Main Floor Plan Area C - Lighting

1. Exterior lights have been modified.

Sheet E-112.3 – Second Floor Plan Area C - Lighting

1. 4th Grade C261 has been mirrored.
2. Light fixtures in classrooms C248, C249 and C250 have been labeled.
3. See revised drawings for a few circuit adjustments.

Sheet E-113.1 – Lighting Details

1. LCP1 schedule has been updated.

Sheet E-114.1 – Light Fixture Schedule

1. F24, F25 and F26 have been added for exterior lighting.

Sheet E-120.1 – Basement Floor Plan - Power

1. Power and data for ATC panel shown.
2. Power to boilers changed to 3-phase.

Sheet E-121.1 – Main Floor Plan Area A - Power

1. Power and data for ATC panel shown.

Sheet E-124.1 – Enlarged Power Plans

1. Power and data for ATC panels shown.

Sheet E-124.2 – Enlarged Kitchen Plan - Electrical

1. Kitchen equipment updated.
Sheet E-125.2 – Equipment Schedules

1. Kitchen equipment schedule updated.
2. Boilers updated on mechanical schedule.

Sheet E-125.3 – One-Line Diagram - Power

1. One-Line diagram has been updated.

Sheet E-126.1 – Panel Schedules

1. Panelboard schedules updated.

Sheet E-126.3 – Panel Schedules

2. Panelboard schedules updated.

Sheet E-126.4 – Panel Schedules

1. Panelboard schedules updated.

Sheet E-130.1 – Basement Floor Plan - Systems

1. Power to fire smoke dampers added.

Sheet E-131.1 – Main Floor Plan Area A - Systems

1. Area of Refuge system added for elevator.

Sheet E-131.3 – Main Floor Plan Area C - Systems

1. Power to fire smoke dampers added.

Sheet E-132.3 – Second Floor Plan Area C - Systems

1. Area of Refuge system added for elevator.
2. Power to fire smoke dampers added.
### HOT WATER UNIT HEATER SCHEDULE

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### VAV BOX SCHEDULE

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### SILENCER SCHEDULE

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</table>
(1) CAPACITY BASED AT 4,800 FEET ELEVATION. COOLING BASED ON 95DB/63WB DEG F AMBIENT. HEATING BASED ON -20 DEG F AMBIENT.

(2) UNIT COMPLETE WITH CONTROL PANEL AND LOCATIONS FOR VFDS. SEE VFD SPECIFICATIONS. VFDS SHALL BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR, CONTROLS BY ATC. COORDINATE NECESSARY CONTACTS WITH ATC CONTRACTOR.

(3) SUPPLY AND RETURN FAN EBTRON GOLD AIRFLOW MONITORS: FANS SHALL BE QUIPPED WITH NON-EVASIVE, ZERO PRESSURE DROP FLOW A/O PRESSURE SENSING TAPS INSTALLED IN FAN INLET CONE FOR AIRFLOW MONITORING.

(4) UNIT EQUIPPED WITH FACTORY MOUNTED AND WIRED DOOR INTERLOCK SAFETY SWITCH WHICH SHALL SHUTDOWN SUPPLY/RELIEF FANS.

(5) EACH FAN IN FAN ARRAY TO BE COMPLETE WITH INDIVIDUAL LOW PRESSURE GRAVITY BACKDRAFT DAMPERS.

(6) INTERIOR SHALL BE CONSTRUCTED OF 304 STAINLESS STEEL AT DIRECT EVAP CABINET SECTION AND DOWNSTREAM FOR CORROSION RESISTANCE.

(7) THE CONTRACTOR SHALL COORDINATE INSTALLATION OF AIR HANDLER IN BUILDING. MANUFACTURER TO PROVIDE FACTORY TRAINING TO CONTRACTOR FOR AHU FIELD ASSEMBLY AS NECESSARY.

(8) MINIMUM SPECIFIED VENTILATION RATE AND FOR FULL ECONOMIZER FLOW. PROVIDE SEPARATE (QTY.2) AIRFLOW MEASURING STATIONS.

(9) ALL MARINE DOORS TO BE BLOW-OUT TYPE WITH VARIABLE STATIC PRESSURE SET TO BLOW-OUT AT 6" W.G.

(10) UNIT SHALL BE EQUIPPED WITH OUTSIDE AIR/RELIEF HOODS AND WEATHER RESISTANT RATED.
MOUNT TRANSFER AIR GRILLES 6" BELOW CEILING.

GENERAL NOTES:

1. ALL RETURN GRILLES SHALL BE CD-1 UNLESS OTHERWISE NOTED.
2. PROVIDE ACCESS TO ALL VALVES AND DAMPERS
3. TRANSFER AIR DUCT. LINE WITH ACCOUSTICAL INSULATION.
4. SMALL-AREA EXHAUST HOODS SHALL BE LEAK TESTED IN THE FIELD.
5. POWER TRANSFER AIR HOODshallbelehem must not be greater than 250.
6. ALL SUPPLY DUCT PAST 25' FROM THE AHU SHALL BE UNLINED WRAPPED ALUMINUM.
7. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL WORK NOTED WITH STRUCTURAL PLANS. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PLUMBING, ELECTRICAL, COMMUNICATION INSTALLATION.
8. INSTALL ALL DUCTWORK IN ACCORDANCE WITH THE ASSOCIATED SPECIFICATION SECTIONS AND GENERAL CONSTRUCTION. ALL JOINTS SHALL BE SMOOTH AND SECURED.
9. MAKE ACCESS FOR ELECTRICAL AND Piping.
10. MAKE ACCESS FOR ELECTRICAL AND Piping.

KEYED NOTES:

1. INSTALL CEILING SUPPLY DUCTS PERMANENT.
2. INSTALL ALL SQUARE TO INCLUDED CUTOUTS FOR SUPPLY DUCTS.
3. INSTALL ALL DUCTS IN ACCORDANCE WITH DETAILS.
4. COORDINATE ALL PLUMBING PIPES ELECTRICAL PIPES WITH AIR DUCTS.
5. COORDINATE ALL PLUMBING PIPES ELECTRICAL PIPES WITH AIR DUCTS.
6. COORDINATE ALL PLUMBING PIPES ELECTRICAL PIPES WITH AIR DUCTS.
7. COORDINATE ALL PLUMBING PIPES ELECTRICAL PIPES WITH AIR DUCTS.
8. ALL EXHAUST DUCTS SHALL BE ADHERED IN THE FIELD.
9. INSTALL EXHAUST FROM ALL EXHAUST Hoods TO THE EXHAUST FAN LOCATION.
10. INSTALL EXHAUST FROM ALL EXHAUST Hoods TO THE EXHAUST FAN LOCATION.
11. INSTALL EXHAUST FROM ALL EXHAUST Hoods TO THE EXHAUST FAN LOCATION.
12. INSTALL EXHAUST FROM ALL EXHAUST Hoods TO THE EXHAUST FAN LOCATION.

CONSTRUCTION DOCUMENTS

LEVEL 01 AREA B MECHANICAL PLAN

OWNER/ORG NAME

The text includes various notes and specifications related to the mechanical systems of the building, such as transfer air grilles, insulation, and coordination with other systems. It also includes instructions for installation and testing of exhaust hoods and the need for coordination with other trades.
1. PROVIDE ACCESS TO ALL VALVES AND DAMPERS LOCATED ABOVE HARD CEILINGS.

2. SEE MECHANICAL PIPING PLANS FOR CONNECTIONS TO ALL EQUIPMENT.

3. COORDINATE ALL ROOFTOP MECHANICAL EQUIPMENT WITH STRUCTURAL PLANS. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL STRUCTURE REQUIRED TO SUPPORT THE EQUIPMENT IF EQUIPMENT WEIGHT & DIMENSIONS EXCEED THE SCHEDULED VALUES. THE MECHANICAL CONTRACTOR SHALL ALSO BE REQUIRED TO COORDINATE ALL DUCTWORK & PIPING WITH VARYING STRUCTURE DUE TO ALTERNATE STRUCTURAL MANUFACTURES. THIS COORDINATION SHALL BE INCLUDED IN 1/4 SCALE SHOP DRAWINGS AS REQUIRED IN THE SPECIFICATIONS.

4. UNLESS OTHERWISE NOTED ALL CEILING SUPPLY DIFFUSER SHALL BE CD-1 ALL RETURN GRILLES SHALL BE RG-1, ALL PLENUM RETURN GRILLES WITH SOUND BOOTS SHALL BE RG-2, ALL EXHAUST GRILLES SHALL BE EG-1.

5. INSTALL CEILING SUPPLY GRILLE PER DETAIL.

6. INSTALL ALL SQUARE TO ROUND SPIN IN FITTINGS WITH HIGH EFFICIENCY TAKE-OFFS PER DETAIL.

7. INSTALL ALL DUCTWORK IN ACCORDANCE WITH DETAILS.

8. COORDINATE ALL MECHANICAL, PIPING, EQUIPMENT, ELEVATOR, FIRE PROTECTION, ELECTRICAL, ROOFING, MECHANICAL, & GENERAL CONTRACTED TRADES. COORDINATION SHALL BE MADE ON 1/4 SCALE COORDINATION/SHOP DRAWINGS AS DETAILED IN THE SPECIFICATIONS. SUBMIT SHOP DRAWINGS TO ENGINEER ANY CONFLICTS NOT SPECIFICALLY NOTED ON THE COORDINATION DRAWINGS SHALL BE RESOLVED AT THE CONTRACTOR'S EXPENSE.

9. ALL EXPOSED DUCTWORK SHALL BE WRAPPED WITH PAINTABLE INSULATION.

10. GREASE DUCT TEST: ALL DUCT SERVING TYPE 1 EXHAUST HOODS SHALL BE LEAK TESTED IN THE PRESENCE OF CODE OFFICIAL. TESTING SHALL BE CONDUCTED PRIOR TO WRAPPING OR CONCEALING THE DUCTWORK. THE LEAK TEST SHALL BE PERFORMED ON THE ENTIRE DUCT SYSTEM, INCLUDING THE DUCT HOOD CONNECTION.

11. COORDINATE ALL BLOCK OUTS WITH MASON FOR DUCTWORK AND PIPING.

12. GENERAL RETURN AND SUPPLY DUCTWORK:
   
   A. ALL SUPPLY DUCTWORK FROM AHU TO A DISTANCE OF 25' SHALL BE 2" INSULATION OVER DOUBLE WALL DUCT. RETURN DUCT INSULATION SHALL BE AS SPECIFIED IN SECTION 230713 DUCT INSULATION.

   B. ALL SUPPLY DUCT PAST 25' FROM THE AHU SHALL BE AS SPECIFIED IN SECTION 230713 DUCT INSULATION. ALL SUPPLY DUCT BETWEEN AHU AND VAV-BOXES IS CONSIDERED MEDIUM PRESSURE, AND SHALL BE WRAPPED.

   C. ALL DUCTWORK BETWEEN VAV BOX AND THERMAL DISPLACEMENT DIFFUSERS SHALL BE INSULATED PER 230713. CONCEALED ROUND DUCTS SERVING THERMAL DISPLACEMENT DIFFUSERS MAY BE WRAPPED. ALL EXPOSED DUCTWORK SHALL BE INTERNALLY LINED.

MARK:  DATE:  DESCRIPTION:

2/7/2020  Addendum 2
LEVEL 02 AREA B MECHANICAL PLAN

GENERAL NOTES

1. COORDINATE ALL MECHANICAL PLAN FOR CONNECTIONS TO ALL EQUIPMENT.
2. INSTALL ALL SQUARE TO ROUND SPIN IN FITTINGS WITH INSTALL CEILING SUPPLY GRILLE PER DETAIL.
3. PIPE DUCTWORK & PIPING WITH VARYING STRUCTURE DUE TO ALTERNATE STRUCTURAL MANUFACTURES. THIS SCHEDULED VALUES. THE MECHANICAL CONTRACTOR SHALL ALSO BE REQUIRED TO COORDINATE ALL MECHANICAL EQUIPMENT WEIGHT & DIMENSIONS EXCEED THE STRUCTURE REQUIRED TO SUPPORT THE EQUIPMENT IF CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL STRUCTURAL MANUFACTURES.
4. INSTALL ALL ROOFTOP MECHANICAL EQUIPMENT AS REQUIRED IN THE SPECIFICATIONS.
5. SEE MECHANICAL PIPING PLANS FOR CONNECTIONS TO PROVIDE ACCESS TO ALL VALVES AND DAMPERS INCREASE DUCT SIZE ACCORDINGLY.
6. EXPOSED ROUND DUCT IN GYM SHALL BE LINED.
7. SUPPLY AIR PLENUM SHALL BE SHORTENED ON THE NORTH SIDE BY 1'.
8. ALL PLENUM RETURN GRILLES WITH SOUND SUPPLY DUCT SHALL BE UNLINED WRAPPED ALUMINUM.
9. GAS FIRED ROOF TOP MAKE DISHWASHER HOOD REQUIREMENTS.
10. DUCT DOWN THRU ROOF. SIZE CONNECTION PER EXHAUST FAN SERVES DISHWASHER HOOD. 12/12 - UP AIR HANDLER.

EXHAUST HOODS SHALL BE LEAK TESTED IN THE PRESENCE OF CODE OFFICIAL. TESTING SHALL BE CONDUCTED PRIOR TO WRAPPING OR CONCEALING THE DUCTWORK THE LEAK TEST SHALL BE A LIGHT TEST INCLUDING THE DUCT HOOD CONNECTION.

GENERAL RETURN AND SUPPLY DUCTWORK:

DUCTWORK AND PIPING. COORDINATE ALL BLOCK OUTS WITH MASON FOR THE ENTIRE DUCT SYSTEM, THE DUCTWORK THE LEAK TEST SHALL BE A LIGHT TEST CONDUCTED PRIOR TO WRAPPING OR CONCEALING PRESENCE OF CODE OFFICIAL. TESTING SHALL BE PERFORMED ON THE ENTIRE DUCT SYSTEM, INCLUDING THE DUCT HOOD CONNECTION.

ALL EXPOSED DUCTWORK SHALL BE WRAPPED WITH RESOLVED AT THE CONTRACTOR'S EXPENSE.

COORDINATE ALL PLUMBING PIPING, DUCTWORK, DETAIL.

INSTALL ALL DUCTWORK IN ACCORDANCE WITH INSTALL CEILING SUPPLY GRILLE PER DETAIL.

COORDINATE ALL ROOFTOP MECHANICAL EQUIPMENT WITH VARYING STRUCTURE DUE TO ALTERNATE STRUCTURAL MANUFACTURES. THIS SCHEDULED VALUES. THE MECHANICAL CONTRACTOR SHALL ALSO BE REQUIRED TO COORDINATE ALL MECHANICAL EQUIPMENT WEIGHT & DIMENSIONS EXCEED THE STRUCTURE REQUIRED TO SUPPORT THE EQUIPMENT IF CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL STRUCTURAL MANUFACTURES.

COORDINATE ALL MECHANICAL PLAN FOR CONNECTIONS TO ALL EQUIPMENT.

INSTALL ALL SQUARE TO ROUND SPIN IN FITTINGS WITH INSTALL CEILING SUPPLY GRILLE PER DETAIL.

COORDINATE ALL MECHANICAL PLAN FOR CONNECTIONS TO ALL EQUIPMENT.

INSTALL ALL SQUARE TO ROUND SPIN IN FITTINGS WITH INSTALL CEILING SUPPLY GRILLE PER DETAIL.
DUCTWORK AND PIPING.

1. PROVIDE SHOP DRAWINGS FOR CONSTRUCTION.

2. PROVIDE SHOP DRAWINGS FOR INSTALLATION.

3. PROVIDE SHOP DRAWINGS FOR LEAK TESTING.

4. PROVIDE SHOP DRAWINGS FOR FIRE PROTECTION.

5. PROVIDE SHOP DRAWINGS FOR VACUUM.

6. PROVIDE SHOP DRAWINGS FOR MILITARY.

7. PROVIDE SHOP DRAWINGS FOR INTERNATIONAL.

8. PROVIDE SHOP DRAWINGS FOR DOMESTIC.

9. PROVIDE SHOP DRAWINGS FOR COMMERCIAL.

10. PROVIDE SHOP DRAWINGS FOR RESIDENTIAL.

11. PROVIDE SHOP DRAWINGS FOR INDUSTRIAL.

12. PROVIDE SHOP DRAWINGS FOR MEDICAL.

13. PROVIDE SHOP DRAWINGS FOR EDUCATIONAL.

14. PROVIDE SHOP DRAWINGS FOR MUNICIPAL.

15. PROVIDE SHOP DRAWINGS FOR UTILITIES.

16. PROVIDE SHOP DRAWINGS FOR ENERGY.

17. PROVIDE SHOP DRAWINGS FOR RECREATIONAL.

18. PROVIDE SHOP DRAWINGS FOR LEISURE.

19. PROVIDE SHOP DRAWINGS FOR SPORTS.

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150. PROVIDE SHOP DRAWINGS FOR LEISURELY.
GENERAL NOTES

DUCTWORK AND PIPING.

COORDINATE ALL BLOCK OUTS WITH MASON FOR ON THE COORDINATION DRAWINGS SHALL BE IN THE SPECIFICATIONS. SUBMIT SHOP DRAWINGS TO SCALE COORDINATION/SHOP DRAWINGS AS DETAILED TO ALTERNATE STRUCTURAL MANUFACTURES. THIS DUCTWORK & PIPING WITH VARYING STRUCTURE DUE SHALL ALSO BE REQUIRED TO COORDINATE ALL SCHEDULED VALUES. THE MECHANICAL CONTRACTOR EQUIPMENT WEIGHT & DIMENSIONS EXCEED THE STRUCTURE REQUIRED TO SUPPORT THE EQUIPMENT IF CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL WITH STRUCTURAL PLANS. THE MECHANICAL COORDINATE ALL ROOFTOP MECHANICAL EQUIPMENT ALL EQUIPMENT.

SEE MECHANICAL PIPING PLANS FOR CONNECTIONS TO LOCATED ABOVE HARD CEILINGS.

PROVIDE ACCESS TO ALL VALVES AND DAMPERS RISE UP IN PIPE VESTIBULE AND CONNECT TO RTU.

DIFFUSER SHALL BE 1" LINED DUCT. ALL DUCT FROM THE VAV/ VALVE TO THE WRAPPED IN 1" INSULATION. ALL DUCT PAST 25' FROM THE AHU SHALL BE 2" INSULATION OVER DOUBLE WALL. SHALL BE 2" INSULATION OVER DOUBLE WALL.

LEVEL 02 AREA C MECHANICAL PIPING PLAN
LIGHTING GENERAL NOTES:
1. PROVIDE ETC DMX CONTROL SYSTEM AS SHOWN ABOVE OR APPROVED EQUAL.
2. PROVIDE CONTROL SOFTWARE AND REMOTE MANAGEMENT SOFTWARE FOR A COMPLETE SYSTEM.
3. DMX CONTROL RISER DIAGRAM

REVISED NOTES:

REMARK AGAINST CONTROL FROM AV / C illuminating only. Corridor E.
ROOMS TO BE CONTROLLED SEPARATELY FROM CORRIDOR LIGHTING.

GENERAL NOTES:
1. PROVIDE ETC DMX CONTROL SYSTEM AS SHOWN ABOVE OR APPROVED EQUAL.
2. PROVIDE CONTROL SOFTWARE AND REMOTE MANAGEMENT SOFTWARE FOR A COMPLETE SYSTEM.

REMARK AGAINST CONTROL FROM AV / C illuminating only. Corridor E.
ROOMS TO BE CONTROLLED SEPARATELY FROM CORRIDOR LIGHTING.
LIGHTING GENERAL NOTES:
1. PROVIDE UNSWITCHED HOT FOR ALL EMERGENCY LIGHTS AND TO INSTALLATION.
2. CONFIRM ALL LOCATIONS OF LIGHT FIXTURES WITH ARCHITECT PRIOR TO INSTALLATION.
3. PROVIDE UNSWITCHED HOT FOR ALL EMERGENCY LIGHTS AND TO INSTALLATION.

SWITCH SCHEDULE

1. SCENE 1 - ALL ON 100%, PHOTO CELL CONTROL OF ZONES
2. SCENE 2 - ALL ON 50%, PHOTO CELL CONTROL OF ZONES
3. SCENE 3 - ALL ON 100%, ZONE 'a' & 'b' 50%, ZONE 'c' & 'd' OFF, NO 'b' & 'c'
4. SCENE 4 - ZONE 'a' & 'b' 50%, ZONE 'c' & 'd' OFF, NO 'b' & 'c'

CONTROL / DESCRIPTION

LIGHTING DETAILS SHEETS FOR TYPICAL CONTROL WIRING

STORAGE C147 SECTION

DRAWN BY: PROJECT #: © COPYRIGHT DESIGN WEST ARCHITECTS 2019

LJCW ELEMENTARY SCHOOL

348 W 300 N LOGAN, UT 84321
SALT LAKE CITY UT 84103
LOGAN CITY SCHOOL DISTRICT
LIGHTING GENERAL NOTES:

1. PROVIDE 2 WORK AREA LIGHT Fixtures FOR EACH WORK STATION. LIGHT Fixtures SHALL BE WIRELESS-CONTROLLED, PENDANT MOUNTED, OR UNDER DESK. LIGHT Fixtures SHALL BE DRAWN IN A RED SHADE WITH A DARK SHADOW TO DISTINGUISH THE LIGHT Fixtures FROM OTHER FIXTURES.
2. PROVIDE BATTERY BACK-UP FOR ALL LIGHT Fixtures IN CASE OF POWER OUTAGE.
3. CONFIRM ALL LOCATIONS OF LIGHT Fixtures WITH ARCHITECT PRIOR TO INSTALLATION.

LIGHTING SWITCH SCHEDULE:

SCENE 1 - ALL ON 100%, PHOTO CELL CONTROL OF ZONES 'a' & 'b', NO PHOTOCELLS

SCENE 2 - ALL ON 50%, PHOTO CELL CONTROL OF ZONES 'a' & 'b', NO PHOTOCELLS

SCENE 3 - ZONE 'a' & 'b' OFF, 'c', 'd' 50%, NO PHOTOCELLS

SCENE 4 - ZONE 'a' & 'b' 50%, ZONE 'c' & 'd' OFF, NO PHOTOCELLS

E-112.3

SECOND FLOOR PLAN AREA C - LIGHTING

STAIR LIGHTING ELEVATION
**LIGHT FIXTURE SCHEDULE**

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<tr>
<th>Item</th>
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<tbody>
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<td>F3</td>
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<td>2'X4' RECESSED LED FLAT PANEL WITH SMOOTH OPAL 2-DOWN, 1-UP.</td>
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<tr>
<td>F4</td>
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<td>FIXTURE. ROUND PROFILE WITH 3 LED SPOKES, 2&quot; PROFILE. EXTRUDED ALUMINUM. DIRECT ONLY</td>
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<td>F5</td>
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<td>SURFACE MOUNTED TO BOTTOM OF CEILING GRID</td>
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<td>F6</td>
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<td>LED LINEAR LIGHT FIXTURE</td>
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**LIGHT FIXTURE GENERAL NOTES**

1. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES OF LOCATIONS AND QUANTITIES TO THE ATTENTION OF THE ARCHITECT.

2. ITEMS THAT ARE SUBMITTED AND HAVE BEEN APPROVED WILL BE LISTED IN THE ADDENDUM(S). VERBAL APPROVALS WILL NOT BE GIVEN.

3. LIGHTING PACKAGES WILL BE REVIEWED FOR GENERAL PROJECT COMPLIANCE ONLY. AN IN-DEPTH REVIEW OF ANY ALTERNATE FIXTURES WILL BE DONE DURING THE SUBMITTAL REVIEW PROCESS.

4. WHEN A CONTRADICTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER AND THE DESCRIPTION, THE DESCRIPTION SHALL GOVERN.

5. ALL LIGHT FIXTURES ARE TO BE A MINIMUM OF 80 CRI UNLESS OTHERWISE NOTED IN THE FIXTURE DESCRIPTION.

6. LIGHTING SOURCES MUST MEET L80 AT 50,000 HRS MINIMUM UNLESS OTHERWISE NOTED.

**BIDDING REQUIREMENTS**

- BIDDING REQUIREMENTS ARE TO BE SUBMITTED TO THE OWNER FOR BID DOCUMENTS.  NO EXCEPTIONS.
- LIGHT FIXTURES, THEATRICAL LIGHTING, SPORTS LIGHTING AND ALL LIGHTING CONTROLS ARE TO BE BID SEPARATELY.  THE BIDDER MUST SUBMIT A SEPARATE BID TO THE OWNER FOR EACH SYSTEM.
- ALL LIGHT FIXTURES AND LIGHTING PACKAGES WILL BE REVIEWED FOR GENERAL PROJECT COMPLIANCE ONLY.
- AN IN-DEPTH REVIEW OF ANY ALTERNATE FIXTURES WILL BE DONE DURING THE SUBMITTAL REVIEW PROCESS.

**LIGHT FIXTURE SCHEDULE**

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<td>PENDANT MOUNTED 2-CIRCUIT TRACK WITH LED</td>
<td></td>
</tr>
<tr>
<td>F3</td>
<td></td>
<td>2'X4' RECESSED LED FLAT PANEL WITH SMOOTH OPAL 2-DOWN, 1-UP.</td>
<td></td>
</tr>
<tr>
<td>F4</td>
<td></td>
<td>FIXTURE. ROUND PROFILE WITH 3 LED SPOKES, 2&quot; PROFILE. EXTRUDED ALUMINUM. DIRECT ONLY</td>
<td></td>
</tr>
<tr>
<td>F5</td>
<td></td>
<td>SURFACE MOUNTED TO BOTTOM OF CEILING GRID</td>
<td></td>
</tr>
<tr>
<td>F6</td>
<td></td>
<td>LED LINEAR LIGHT FIXTURE</td>
<td></td>
</tr>
<tr>
<td>F7</td>
<td></td>
<td>COLOR TO MATCH EXTERIOR SOFFIT.</td>
<td></td>
</tr>
<tr>
<td>F8</td>
<td></td>
<td>6&quot; SQUARE LED FLAT PANEL FOR EXTERIOR SOFFIT. 4-LIGHT CLUSTER.</td>
<td></td>
</tr>
<tr>
<td>F9</td>
<td></td>
<td>RGBW TAPE LIGHT FIXTURE FOR COVE.</td>
<td></td>
</tr>
<tr>
<td>F10</td>
<td></td>
<td>PROVIDE DOWN TO 10% AFTER 8 PM AND TURN ON TO FULL</td>
<td></td>
</tr>
<tr>
<td>F11</td>
<td></td>
<td>BUILT-IN MOTION SENSOR. FIXTURE IS TO STEP DIM</td>
<td></td>
</tr>
<tr>
<td>F12</td>
<td></td>
<td>EXTERIOR LED WALL MOUNTED LIGHT FIXTURE WITH 2&quot; RECESSED DOWNLIGHT FIXTURE.</td>
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</tr>
<tr>
<td>F13</td>
<td></td>
<td>30 DEGREE 3&quot; WIDE LED LINEAR RECESSED LIGHT FIXTURE WITH</td>
<td></td>
</tr>
<tr>
<td>F14</td>
<td></td>
<td>DECORATIVE 2'X2' LAY-IN LED LIGHT FIXTURE. METALUX 22CZ2-34HE-UNV-L840-CD1-U</td>
<td></td>
</tr>
<tr>
<td>F15</td>
<td></td>
<td>DECORATIVE 2'X4' LAY-IN LED LIGHT FIXTURE. METALUX 24CZ2-50HE-UNV-L840-CD1-U</td>
<td></td>
</tr>
<tr>
<td>F16</td>
<td></td>
<td>LED STRIP LIGHT FIXTURE. CHAIN HUNG. LENGTH AS</td>
<td></td>
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**LIGHT FIXTURE SCHEDULE**

<table>
<thead>
<tr>
<th>Type</th>
<th>Model</th>
<th>Description</th>
<th>Location</th>
<th>Notes</th>
</tr>
</thead>
</table>
| F1 | | ACCESSIBLE CEILING IN NEAREST CORRIDOR. | ALUMINUM CHANNEL WITH OPAL LENS AND TRACK HEAD. | *
| F2 | | PENDANT MOUNTED 2-CIRCUIT TRACK WITH LED | | *
| F3 | | 2'X4' RECESSED LED FLAT PANEL WITH SMOOTH OPAL 2-DOWN, 1-UP. | | *
| F4 | | FIXTURE. ROUND PROFILE WITH 3 LED SPOKES, 2" PROFILE. EXTRUDED ALUMINUM. DIRECT ONLY | | *
| F5 | | SURFACE MOUNTED TO BOTTOM OF CEILING GRID | | *
| F6 | | LED LINEAR LIGHT FIXTURE | | *
| F7 | | COLOR TO MATCH EXTERIOR SOFFIT. | | *
| F8 | | 6" SQUARE LED FLAT PANEL FOR EXTERIOR SOFFIT. 4-LIGHT CLUSTER. | | *
| F9 | | RGBW TAPE LIGHT FIXTURE FOR COVE. | | *
| F10 | | PROVIDE DOWN TO 10% AFTER 8 PM AND TURN ON TO FULL | | *
| F11 | | BUILT-IN MOTION SENSOR. FIXTURE IS TO STEP DIM | | *
| F12 | | EXTERIOR LED WALL MOUNTED LIGHT FIXTURE WITH 2" RECESSED DOWNLIGHT FIXTURE. | | *
| F13 | | 30 DEGREE 3" WIDE LED LINEAR RECESSED LIGHT FIXTURE WITH | | *
| F14 | | DECORATIVE 2'X2' LAY-IN LED LIGHT FIXTURE. METALUX 22CZ2-34HE-UNV-L840-CD1-U | | *
| F15 | | DECORATIVE 2'X4' LAY-IN LED LIGHT FIXTURE. METALUX 24CZ2-50HE-UNV-L840-CD1-U | | *
| F16 | | LED STRIP LIGHT FIXTURE. CHAIN HUNG. LENGTH AS | | *

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<table>
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| F2 | | PENDANT MOUNTED 2-CIRCUIT TRACK WITH LED | | *
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| F6 | | LED LINEAR LIGHT FIXTURE | | *
| F7 | | COLOR TO MATCH EXTERIOR SOFFIT. | | *
| F8 | | 6" SQUARE LED FLAT PANEL FOR EXTERIOR SOFFIT. 4-LIGHT CLUSTER. | | *
| F9 | | RGBW TAPE LIGHT FIXTURE FOR COVE. | | *
| F10 | | PROVIDE DOWN TO 10% AFTER 8 PM AND TURN ON TO FULL | | *
| F11 | | BUILT-IN MOTION SENSOR. FIXTURE IS TO STEP DIM | | *
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| F13 | | 30 DEGREE 3" WIDE LED LINEAR RECESSED LIGHT FIXTURE WITH | | *
| F14 | | DECORATIVE 2'X2' LAY-IN LED LIGHT FIXTURE. METALUX 22CZ2-34HE-UNV-L840-CD1-U | | *
| F15 | | DECORATIVE 2'X4' LAY-IN LED LIGHT FIXTURE. METALUX 24CZ2-50HE-UNV-L840-CD1-U | | *
| F16 | | LED STRIP LIGHT FIXTURE. CHAIN HUNG. LENGTH AS | | *
ELECTRICAL CONTRACTOR IS TO PROVIDE ALL CONDUIT FOR MECHANICAL BMS CONTROLS. COORDINATE ALL REQUIRED CONDUIT AND ROUTING WITH MECHANICAL CONTRACTOR.
ADDENDUM #4

LOGAN CITY SCHOOL DISTRICT

DATE: 1/28/20

CHECKER: 119291

AUTHOR: 54321

LOGAN CITY SCHOOL DISTRICT

1. PROVIDE 120 VOLTS FOR VAV TRANSFORMER. VERIFY EXACT LOCATION OF TRANSFORMER WITH MECHANICAL CONTRACTOR.

2. DATA DROP FOR VIDEO DOORBELL.

3. PROVIDE 120 VOLT FOR OUTLET IN DISPLAY CASE. PROGRAM TO DESIGN WEST ARCHITECTS

4. PROVIDE 120 VOLT FOR OUTLET IN DISPLAY CASE. PROGRAM TO DESIGN west

5. TURN OFF AFTER HOURS OR AS DIRECTED BY SCHOOL DISTRICT.

6. PROVIDE 120 VOLT FOR OUTLET IN DISPLAY CASE. PROGRAM TO DESIGN WEST ARCHITECTS

7. TURN OFF AFTER HOURS OR AS DIRECTED BY SCHOOL DISTRICT.
P1 PROVIDE 42" SINGLE WIRELESS ACCESS POINT TO SUPPORT  Wi-Fi SERVICES.

P2 PROVIDE 120 VOLTS FOR VAV TRANSFORMER. VERIFY EXACT LOCATION OF TRANSFORMER IN MECHANICAL CONTRACTOR.

P3 PROVIDE 208V, 3Ø, 40A SNOW MELT CONTACTOR, RAYCHEM E104 OR APPROVED EQUAL. TIE EACH OF THE THREE ZONES OF HEAT TRACE TO A SINGLE CONTACTOR.

P4 PROVIDE SNOW MELT CONTROLLER, RAYCHEM ETI PD Pro  OR APPROVED EQUAL. TIE EACH OF THE THREE ZONES OF HEAT TRACE TO THIS CONTROLLER.

P7 PROVIDE 7.5 KW INVERTER WITH 208V, 3Ø INPUT AND  208V, 3Ø OUTPUT TO POWER EMERGENCY LIGHTING. LOCATE INVERTER IN SAME LOCATION AS FUTURE ATS.

P8 PROVIDE 120V WIRELESS ACCESS POINT IS FURNISHED AND INSTALLED BY LOGAN CITY SCHOOL DISTRICT. RUN (2) TWO WHITE CAT6A CABLES FROM NEAREST DATA TRAY TO NEAREST WIRELESS ACCESS POINT.

APPROVED EQUAL. TIE EACH OF THE THREE ZONES OF HEAT TRACE TO A SINGLE CONTROLLER. TIE SNOW AND TEMPERATURE SENSORS TO THIS CONTROLLER. TIE TO SNOW MELT PHASE FROM THIS CONTACTOR.

P2 PROVIDE 120 VOLTS FOR VAV TRANSFORMER. VERIFY EXACT LOCATION OF TRANSFORMER IN MECHANICAL CONTRACTOR.

P3 PROVIDE 208V, 3Ø, 40A SNOW MELT CONTACTOR, RAYCHEM E104 OR APPROVED EQUAL. TIE EACH OF THE THREE ZONES OF HEAT TRACE TO A SINGLE CONTACTOR.

P4 PROVIDE SNOW MELT CONTROLLER, RAYCHEM ETI PD Pro  OR APPROVED EQUAL. TIE EACH OF THE THREE ZONES OF HEAT TRACE TO THIS CONTROLLER.

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KITCHEN ELECTRICAL NOTES:

1. LIGHT FIXTURES, SWITCH BOXES, SWITCHES, & EYES & NIPPLE FOR CEILING BENDS.
   1. LIGHT FIXTURES, SWITCH BOXES, SWITCHES, & EYES & NIPPLE FOR CEILING BENDS.
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   1. LIGHT FIXTURES, SWITCH BOXES, SWITCHES, & EYES & NIPPLE FOR CEILING BENDS.

2. EVAPORATORS FOR COLD STORAGE ROOM
   2. EVAPORATORS FOR COLD STORAGE ROOM
   2. EVAPORATORS FOR COLD STORAGE ROOM
   2. EVAPORATORS FOR COLD STORAGE ROOM

3. ELECTRICAL DIVISION TO PROVIDE ALL
   3. ELECTRICAL DIVISION TO PROVIDE ALL
   3. ELECTRICAL DIVISION TO PROVIDE ALL
   3. ELECTRICAL DIVISION TO PROVIDE ALL

4. EYS FITTING FURNISHED WITH COLD STORAGE ROOM EVAPORATOR, TERMINAL BLOCK, ROOM THERMOSTAT, LIQUID LINE DRAIN LINE CABLE
   4. EYS FITTING FURNISHED WITH COLD STORAGE ROOM EVAPORATOR, TERMINAL BLOCK, ROOM THERMOSTAT, LIQUID LINE DRAIN LINE CABLE
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5. KITCHEN EQUIPMENT CONTRACTOR SHALL FURNISH AND INSTALL, ELECTRICAL DIVISION TO SEAL ALL
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6. THE ELECTRICAL CONTRACTOR TO PROVIDE ALL HARDWIRE CONNECTIONS TO EQUIPMENT.
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7. ELECTRICAL DIVISION TO SEAL ALL DRAWER & DOOR TERMINALS FROM EXPOSURE TO INGRESS OF WATER.
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   7. ELECTRICAL DIVISION TO SEAL ALL DRAWER & DOOR TERMINALS FROM EXPOSURE TO INGRESS OF WATER.

8. ANY CONNECTION TO EQUIPMENT SHALL BE MADE USING S EALTIGHT CONDUIT AND WATERTIGHT FITTINGS.
   8. ANY CONNECTION TO EQUIPMENT SHALL BE MADE USING S EALTIGHT CONDUIT AND WATERTIGHT FITTINGS.
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9. ALL DISCONNECT SWITCHES LOCATED IN THE KITCHEN AREAS SHALL BE RATED FOR SPRAY DOWN, NEMA 4X
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10. ELECTRICAL DIVISION SHALL FURNISH AND INSTALL ALL ELECTRICAL DIVISION SHALL FURNISH AND INSTALL ALL ELECTRICAL DIVISION SHALL FURNISH AND INSTALL ALL
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    10. ELECTRICAL DIVISION SHALL FURNISH AND INSTALL ALL ELECTRICAL DIVISION SHALL FURNISH AND INSTALL ALL
    10. ELECTRICAL DIVISION SHALL FURNISH AND INSTALL ALL

ELECTRICAL NOTES:

1. ELECTRICAL PLAN SHOWS ROUGH LOCATION OF POWER EQUIPMENT, CONTROL, AND FUSES.  DETAILS TO BE SUPPLIED BY EPC OR SUBCONTRACTOR.
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   1. ELECTRICAL PLAN SHOWS ROUGH LOCATION OF POWER EQUIPMENT, CONTROL, AND FUSES.  DETAILS TO BE SUPPLIED BY EPC OR SUBCONTRACTOR.

2. ELECTRICAL SYSTEMS DESIGNED FOR 120/240 VOLT, 3 PHASE, 60 HERTZ, 4 WIRE SYSTEM.
   2. ELECTRICAL SYSTEMS DESIGNED FOR 120/240 VOLT, 3 PHASE, 60 HERTZ, 4 WIRE SYSTEM.
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4. ALL CONDUIT & WIRING TO BE IN CONFORMITY WITH LOCAL CODE.
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   4. ALL CONDUIT & WIRING TO BE IN CONFORMITY WITH LOCAL CODE.

5. ALL COVER PLATES SHALL BE BRUSHED STAINLESS STEEL.  CONDUIT AND WIRING EXCEPT WHERE NOTED.  RECEPTACLES & SPLICE BOXES, LIGHT FIXTURES, LAMPS, LIGHT SWITCHES AND COVER PLATES, PULL BOXES, ETC. SHALL BE LOCATED BY THE ELECTRICAL ENGINEER/
   5. ALL COVER PLATES SHALL BE BRUSHED STAINLESS STEEL.  CONDUIT AND WIRING EXCEPT WHERE NOTED.  RECEPTACLES & SPLICE BOXES, LIGHT FIXTURES, LAMPS, LIGHT SWITCHES AND COVER PLATES, PULL BOXES, ETC. SHALL BE LOCATED BY THE ELECTRICAL ENGINEER/

6. ADDITIONAL CONVENIENCE RECEPTACLES, TELEPHONE AND PHONE JACKS TO BE DESIGNATED BY THE ELECTRICAL ENGINEER.
   6. ADDITIONAL CONVENIENCE RECEPTACLES, TELEPHONE AND PHONE JACKS TO BE DESIGNATED BY THE ELECTRICAL ENGINEER.
   6. ADDITIONAL CONVENIENCE RECEPTACLES, TELEPHONE AND PHONE JACKS TO BE DESIGNATED BY THE ELECTRICAL ENGINEER.

7. FIRE DIVISION TO SEAL ALL ELECTRICAL CONDUIT & WIRING BETWEEN COLD STORAGE ROOMS AND SHALL PENETRATE THE CEILING AT A POINT WHERE MOUNTED IN WALLS WITH NO EXPOSED CONDUIT SHOWING ON SURFACE OF TERMINAL EQUIPMENT CONTRACTOR BLOCK, SWITCH, FAN DOOR
   7. FIRE DIVISION TO SEAL ALL ELECTRICAL CONDUIT & WIRING BETWEEN COLD STORAGE ROOMS AND SHALL PENETRATE THE CEILING AT A POINT WHERE MOUNTED IN WALLS WITH NO EXPOSED CONDUIT SHOWING ON SURFACE OF TERMINAL EQUIPMENT CONTRACTOR BLOCK, SWITCH, FAN DOOR
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NOTE: ELECTRICAL MOUNTING

ALL ELECTRICAL DIVISION MOUNTINGS SHALL BE IN CONFORMITY WITH LOCAL CODE.  DESIGN TO BE LOCATED BY THE ELECTRICAL DIVISION.

NOTE: WALK-IN ELECTRICAL

ALL ELECTRICAL DIVISION MOUNTINGS SHALL BE IN CONFORMITY WITH LOCAL CODE.  DESIGN TO BE LOCATED BY THE ELECTRICAL DIVISION.
### MECHANICAL EQUIPMENT SCHEDULE

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<th>UNIT NAME</th>
<th>DESCRIPTION</th>
<th>TYPE</th>
<th>QTY</th>
<th>SIZE</th>
<th>POLES</th>
<th>WIRE (CU)</th>
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<td>GFU 1</td>
<td>CHEMICAL FEED SYSTEM</td>
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<td>1</td>
<td>120 V</td>
<td>9.8 A</td>
<td>1 3/4&quot;</td>
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<tr>
<td>AHU 3B</td>
<td>AIR HANDLER UNIT</td>
<td>LIGHTS AND OUTLETS</td>
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<tr>
<td>EC 5</td>
<td>EVAPORATIVE COOLING PUMP</td>
<td>0.5 HP</td>
<td>1</td>
<td>120 V</td>
<td>9.8 A</td>
<td>1 3/4&quot;</td>
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<tr>
<td>FC 1</td>
<td>FAN COIL UNIT</td>
<td>0.75 HP</td>
<td>1</td>
<td>120 V</td>
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<tr>
<td>RF 5</td>
<td>RETURN FAN</td>
<td>48 FLA</td>
<td>1</td>
<td>208 V</td>
<td>48 A</td>
<td>1 1-1/4&quot;</td>
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<tr>
<td>SF 3B</td>
<td>SUPPLY FAN</td>
<td>15 HP</td>
<td>1</td>
<td>208 V</td>
<td>46.2 A</td>
<td>1 1-1/4&quot;</td>
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<td>EF 1</td>
<td>EXHAUST FAN</td>
<td>0.25 HP</td>
<td>1</td>
<td>120 V</td>
<td>5.8 A</td>
<td>1 3/4&quot;</td>
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<tr>
<td>SF 1</td>
<td>SUPPLY FAN</td>
<td>27 FLA</td>
<td>1</td>
<td>208 V</td>
<td>27 A</td>
<td>1 3/4&quot;</td>
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<tr>
<td>K 47</td>
<td>FOOD PROCESSOR</td>
<td>3.5 FLA</td>
<td>1</td>
<td>120 V</td>
<td>4 A</td>
<td>1 3/4&quot;</td>
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<tr>
<td>K 35</td>
<td>HOOD TYPE II</td>
<td>10 FLA</td>
<td>1</td>
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<td>K 34</td>
<td>DISHWASHER, CONVEYOR TYPE</td>
<td>138.9 FLA</td>
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<td>208 V</td>
<td>139 A</td>
<td>1 2-1/2&quot;</td>
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<td>HOT FOOD WELL, SLIM LINE</td>
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<tr>
<td>K 26B</td>
<td>HOOD LIGHTS</td>
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<td>120 V</td>
<td>1 A</td>
<td>1 3/4&quot;</td>
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<tr>
<td>K 26A</td>
<td>HOOD LIGHTS</td>
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<td>1 3/4&quot;</td>
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<td>K 21</td>
<td>TILT SKILLET, GAS</td>
<td>9 FLA</td>
<td>1</td>
<td>120 V</td>
<td>9 A</td>
<td>1 3/4&quot;</td>
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<td>K 8</td>
<td>ICE CUBER WITH BIN</td>
<td>14.2 FLA</td>
<td>1</td>
<td>120 V</td>
<td>14 A</td>
<td>1 3/4&quot;</td>
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<tr>
<td>K 5.2</td>
<td>WALK-IN FREEZER CONDENSER</td>
<td>9.4 FLA</td>
<td>1</td>
<td>208 V</td>
<td>9 A</td>
<td>1 3/4&quot;</td>
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<tr>
<td>K 4.2</td>
<td>WALK-IN COOLER CONDENSER</td>
<td>7.7 FLA</td>
<td>1</td>
<td>208 V</td>
<td>8 A</td>
<td>1 3/4&quot;</td>
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<tr>
<td>K 4.1</td>
<td>WALK-IN COOLER EVAPORATOR</td>
<td>4.2 FLA</td>
<td>1</td>
<td>120 V</td>
<td>4 A</td>
<td>1 3/4&quot;</td>
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### KITCHEN EQUIPMENT SCHEDULE

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<tr>
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<th>SIZE</th>
<th>POLES</th>
<th>WIRE (CU)</th>
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<tr>
<td>DSCP 1</td>
<td>DOMESTIC CIRCULATION PUMP</td>
<td>0.1 KVA</td>
<td>1</td>
<td>120 V</td>
<td>0.8 A</td>
<td>1 3/4&quot;</td>
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<tr>
<td>RTU 2</td>
<td>ROOF TOP UNIT LIGHTS AND OUTLETS</td>
<td>0.5 KVA</td>
<td>1</td>
<td>120 V</td>
<td>4.2 A</td>
<td>1 3/4&quot;</td>
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<tr>
<td>CONTACTOR</td>
<td>FOR ATC CONTROL</td>
<td></td>
<td></td>
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</tbody>
</table>

### ADDENDUM #3

1. VERIFY THE REQUIREMENTS OF THE POS SYSTEM WITH THE SUPPLIER INCLUDING ELECTRICAL REQUIREMENTS AND THE INTERCONNECTION REQUIREMENTS.
2. FURNISHED, INSTALLED & CONNECTED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER DIVISION 26.
3. FURNISHED, INSTALLED & CONNECTED UNDER ANOTHER DIVISION.
23. V. FURNISHED, INSTALLED & CONNECTED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER DIVISION 26.
25. X. FURNISHED, INSTALLED & CONNECTED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER DIVISION 26.
27. Z. FURNISHED, INSTALLED & CONNECTED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER DIVISION 26.

### FLOOR BOX SCHEDULE

<table>
<thead>
<tr>
<th>UNIT NAME</th>
<th>DESCRIPTION</th>
<th>TYPE</th>
<th>QTY</th>
<th>SIZE</th>
<th>POLES</th>
<th>WIRE (CU)</th>
</tr>
</thead>
</table>

### MARK:

- 

### DATE:

- 

### 2/7/20

### ELLIS ELEMENTARY SCHOOL

- 

### LOGAN CITY SCHOOL DISTRICT
### PANELBOARD SCHEDULE

#### PANEL NAME: 0MC1
- **Location:** Main Campus
- **Voltage:** 12000 V
- **Bus Type:** Main
- **Neutral Rating:** 100%
- **Bus Material:** Aluminum
- **Isolated Ground:** No

<table>
<thead>
<tr>
<th>CKT#</th>
<th>PHASE</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Load</th>
<th>Min. A.I.C. Rating</th>
<th>Panel Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>21</td>
<td>120/208</td>
<td>111</td>
<td>106</td>
<td>93</td>
<td>21906 VA</td>
<td>20500 VA</td>
<td>22586 VA</td>
</tr>
<tr>
<td>22</td>
<td>120/208</td>
<td>111</td>
<td>106</td>
<td>93</td>
<td>21906 VA</td>
<td>20500 VA</td>
<td>22586 VA</td>
</tr>
<tr>
<td>23</td>
<td>120/208</td>
<td>111</td>
<td>106</td>
<td>93</td>
<td>21906 VA</td>
<td>20500 VA</td>
<td>22586 VA</td>
</tr>
</tbody>
</table>

#### PANEL NAME: 1MA1
- **Location:** Main Campus
- **Voltage:** 12000 V
- **Bus Type:** Main
- **Neutral Rating:** 100%
- **Bus Material:** Aluminum
- **Isolated Ground:** No

<table>
<thead>
<tr>
<th>CKT#</th>
<th>PHASE</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Load</th>
<th>Min. A.I.C. Rating</th>
<th>Panel Name</th>
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</thead>
<tbody>
<tr>
<td>24</td>
<td>120/208</td>
<td>111</td>
<td>106</td>
<td>93</td>
<td>21906 VA</td>
<td>20500 VA</td>
<td>22586 VA</td>
</tr>
<tr>
<td>25</td>
<td>120/208</td>
<td>111</td>
<td>106</td>
<td>93</td>
<td>21906 VA</td>
<td>20500 VA</td>
<td>22586 VA</td>
</tr>
<tr>
<td>26</td>
<td>120/208</td>
<td>111</td>
<td>106</td>
<td>93</td>
<td>21906 VA</td>
<td>20500 VA</td>
<td>22586 VA</td>
</tr>
</tbody>
</table>

#### PANEL NAME: 2MB1
- **Location:** Main Campus
- **Voltage:** 12000 V
- **Bus Type:** Main
- **Neutral Rating:** 100%
- **Bus Material:** Aluminum
- **Isolated Ground:** No

<table>
<thead>
<tr>
<th>CKT#</th>
<th>PHASE</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Load</th>
<th>Min. A.I.C. Rating</th>
<th>Panel Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>27</td>
<td>120/208</td>
<td>111</td>
<td>106</td>
<td>93</td>
<td>21906 VA</td>
<td>20500 VA</td>
<td>22586 VA</td>
</tr>
<tr>
<td>28</td>
<td>120/208</td>
<td>111</td>
<td>106</td>
<td>93</td>
<td>21906 VA</td>
<td>20500 VA</td>
<td>22586 VA</td>
</tr>
<tr>
<td>29</td>
<td>120/208</td>
<td>111</td>
<td>106</td>
<td>93</td>
<td>21906 VA</td>
<td>20500 VA</td>
<td>22586 VA</td>
</tr>
</tbody>
</table>

#### PANEL NAME: 1A1
- **Location:** Main Campus
- **Voltage:** 12000 V
- **Bus Type:** Main
- **Neutral Rating:** 100%
- **Bus Material:** Aluminum
- **Isolated Ground:** No

<table>
<thead>
<tr>
<th>CKT#</th>
<th>PHASE</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Load</th>
<th>Min. A.I.C. Rating</th>
<th>Panel Name</th>
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</thead>
<tbody>
<tr>
<td>30</td>
<td>120/208</td>
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<td>106</td>
<td>93</td>
<td>21906 VA</td>
<td>20500 VA</td>
<td>22586 VA</td>
</tr>
<tr>
<td>31</td>
<td>120/208</td>
<td>111</td>
<td>106</td>
<td>93</td>
<td>21906 VA</td>
<td>20500 VA</td>
<td>22586 VA</td>
</tr>
<tr>
<td>32</td>
<td>120/208</td>
<td>111</td>
<td>106</td>
<td>93</td>
<td>21906 VA</td>
<td>20500 VA</td>
<td>22586 VA</td>
</tr>
</tbody>
</table>

### PANEL LEGEND

- 0MC1
- 1MA1
- 2MB1
- 1A1

---

**Notes:**
- **Type C:** Door Type: Keyed
- **Type M:** Door Type: Recessed
- **Type O:** Door Type: Door-in-Door
- **Type P:** Door Type: None

**Panel Schedule:**
- **Branch Breaker:**
  - **225 A**
  - **40780 VA**

**Bus Material:**
- **Aluminum**

**Isolated Ground:**
- **100%**

**Circuit Description:**
- **Total Connected Load:**
  - **VA:**
  - **Amps:**

**Total Connected Current Per Phase (Amps):**
- **113 A**

**Total Connected Load Per Phase (VA):**
- **40780 VA**

**Total Est. Demand Current:**
- **113 A**

**Total Est. Demand:**
- **40780 VA**

---

**Document Information:**
- **Architects:**
- **Issued:** 2/10/20
1. Provide Class A ground fault interrupter type circuit breaker.
2. Provide arc fault circuit interrupter type circuit breaker.
3. Provide 30 milliamperes equipment ground fault protector type circuit breaker.
4. Provide shunt trip circuit breaker with 120 V coil.
5. Provide HACR rated circuit breaker.
6. Provide handle clamp for holding circuit breaker in the "on" or "off" position.
7. Provide switching rated circuit breaker.
8. Provide new circuit breaker in existing panelboard (where panel is located as existing) of same manufacturer and A.I.C. rating as existing.
9. Provide existing load.

### LOAD CLASSIFICATION

<table>
<thead>
<tr>
<th>Circuit Description</th>
<th>Connected Load (VA)</th>
<th>Demand Factor</th>
<th>Estimated Demand (VA)</th>
<th>Panel Total (VA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor 1664 VA</td>
<td>125.00%</td>
<td>2080 VA</td>
<td></td>
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</tr>
<tr>
<td>Motor 1656 VA</td>
<td>125.00%</td>
<td>2070 VA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>0 VA</td>
<td>0.00%</td>
<td>0 VA</td>
<td></td>
</tr>
<tr>
<td>Kitchen 12532 VA</td>
<td>65.00%</td>
<td>8146 VA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Continuous</td>
<td>0 VA</td>
<td>0.00%</td>
<td>0 VA</td>
<td></td>
</tr>
<tr>
<td>Receptacle 4140 VA</td>
<td>100.00%</td>
<td>4140 VA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kitchen 20423 VA</td>
<td>65.00%</td>
<td>13275 VA</td>
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<tr>
<td>Continuous</td>
<td>0 VA</td>
<td>0.00%</td>
<td>0 VA</td>
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</tr>
<tr>
<td>Receptacle 0 VA</td>
<td>0.00%</td>
<td>0 VA</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### PANEL SCHEDULES

#### PANEL NAME: K1
- Location: K1
- Circuit Breaker Type: Door & Door
- Panel: 1
- Bus Rating: 100 A
- BUS MATERIAL: CEE MLO
- Enclosure: NEMA 4X
- Mounting: Recessed
- Panel Name: K1
- Panel Legend: K1

#### PANEL NAME: S2B1
- Location: S2B1
- Circuit Breaker Type: Door & Door
- Panel: 1
- Bus Rating: 100 A
- BUS MATERIAL: CEE MLO
- Enclosure: NEMA 4X
- Mounting: Recessed
- Panel Name: S2B1
- Panel Legend: S2B1

### NOTES
- Include Class A ground fault interrupter type circuit breaker.
- Include arc fault circuit interrupter type circuit breaker.
- Include 30 milliamperes equipment ground fault protector type circuit breaker.
- Include 120 V coil shunt trip circuit breaker.
- Include handle clamp for holding circuit breaker in the "on" or "off" position.
- Include switching rated circuit breaker.
- Include new circuit breaker in existing panelboard (where panel is located as existing) of same manufacturer and A.I.C. rating as existing.
### Panel Legend

<table>
<thead>
<tr>
<th>Panel</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S1C1</td>
<td>E2B1</td>
</tr>
<tr>
<td>E1C1</td>
<td></td>
</tr>
</tbody>
</table>

### Panel S1C1 Schedule

<table>
<thead>
<tr>
<th>Circuit Description</th>
<th>Amp</th>
<th>Phase</th>
<th>Type</th>
<th>Branch Breaker</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

### Panel E2B1 Schedule

<table>
<thead>
<tr>
<th>Circuit Description</th>
<th>Amp</th>
<th>Phase</th>
<th>Type</th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

### Panel E1C1 Schedule

<table>
<thead>
<tr>
<th>Circuit Description</th>
<th>Amp</th>
<th>Phase</th>
<th>Type</th>
<th>Branch Breaker</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Notes:**

- PROVIDE CLASS A GROUND FAULT INTERRUPTER TYPE CIRCUIT BREAKER.
- PROVIDE ARC FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER.
- PROVIDE NEW CIRCUIT BREAKER IN EXISTING PANELBOARD (WHERE PANEL IS LOCATED AS EXISTING) OF SAME MANUFACTURER AND A.I.C. RATING AS EXISTING.
- PROVIDE HACR RATED CIRCUIT BREAKER.

**Load Classification:**

- Motor: 0 VA, 0.00%
- Other: 0 VA, 0.00%
- Kitchen: 0 VA, 0.00%
- Continuous: 0 VA, 0.00%
- Receptacle: 0 VA, 0.00%
- Equipment: 0 VA, 0.00%
- Panel: 0 VA, 0.00%

**Electrical Panel Schedule:**

<table>
<thead>
<tr>
<th>Panel</th>
<th>Location</th>
<th>Voltage</th>
<th>Phase</th>
<th>Feed From</th>
<th>MLO / FTL</th>
<th>Elec.</th>
<th>C154</th>
<th>Type</th>
<th>Min. A.I.C. Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>S1C1</td>
<td>IDF B243</td>
<td>120/208</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>35k AIC</td>
</tr>
<tr>
<td>E2B1</td>
<td>IDF B243</td>
<td>120/208</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>35k AIC</td>
</tr>
<tr>
<td>E1C1</td>
<td>IDF B243</td>
<td>120/208</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>35k AIC</td>
</tr>
</tbody>
</table>

**Panel Details:**

- Provide Class A Ground Fault Interrupter Type Circuit Breaker.
- Provide Arc Fault Circuit Interrupter Type Circuit Breaker.
- Provide new Circuit Breaker in existing Panelboard (where panel is located as existing) of same manufacturer and A.I.C. rating as existing.
- Provide HACR Rated Circuit Breaker.

---

**Notes:**

- Provide a new circuit breaker in existing panelboard (where panel is located as existing) of same manufacturer and A.I.C. rating as existing.
- Provide HACR rated circuit breakers.
- Provide new circuit breakers in existing panelboards (where panel is located as existing) of same manufacturer and A.I.C. rating as existing.
- Provide new circuit breakers in existing panelboards (where panel is located as existing) of same manufacturer and A.I.C. rating as existing.
SYSTEMS GENERAL NOTES:
1. COORDINATE ALL WALL MOUNTED LOCATIONS WITH THE ARCHITECT.
2. DO NOT LOCATE FIRE CAMERAS WITHIN 30 INCHES OF DOORS OR LOCATIONS.
3. THE SYSTEMS CONTRACTOR SHALL DETERMINE THE EXACT ROUTE OF ALL CONDUITS AND LOCATION OF ALL ELECTRICAL DEVICES. REFER TO THE ARCHITECTURAL DRAWINGS FOR DEVICE LOCATIONS.
4. ALL CONDUITS THAT TERMINATE ABOVE THE CEILING SHALL TERMINATE WITH NYLON BUSHING.
5. CONTRACTOR SHALL COORDINATE ALL CABLE MOUNTED DEVICES WITH ELECTRICAL CONTRACTOR AND REFER TO THE ELECTRICAL AUTO CAD PLAN.
6. ALL FIRE ALARM DEVICE LOCATIONS, EQUIPMENT LOCATIONS, REPAIR DEVICES ETC. ARE DESCRIBED IN A NATURE AND ARE BOUND TO PLANNED EXISTING CAPABILITIES. REFER TO THE ARCHITECTURAL DRAWINGS FOR DEVICE LOCATIONS.
7. ALL FIRE ALARM DEVICES ARE TO BE COORDINATED WITH THE FIRE DEPARTMENT.
8. CONTRACTOR SHALL COORDINATE ALL MOUNTED DEVICES WITH THE LIGHTING PLANS. REFER TO THE LIGHTING PLANS AND REFER TO THE DRAWINGS FOR DEVICE LOCATIONS.

KEYED NOTES:
1. CAMERA AND CAMERA MOUNT IS FURNISHED AND INSTALLED BY LOGAN CITY SCHOOL DISTRICT. INSTALL 3/4" CONDUIT TO NEAREST CABLE TRAY.
2. VERIFY QUANTITY OF REQUIRED TAMPER AND FLOW SWITCHES WITH SPRINKLER CONTRACTOR.
3. FIRE RISER HORN/STROBE ON DEDICATED LOOP FOR FIRE DEPARTMENT.
4. REFER TO THE DETAILED FIRE DEPARTMENT RISER SHEET FOR FURTHER INSTRUCTIONS.
SYSTEMS GENERAL NOTES:

1. COORDINATE ALL WALL MOUNTED LOCATIONS WITH THE ARCHITECT.
2. DO NOT LOCATE THE CAMERA MOUNTED DEVICES OR BARS DIRECTLY IN FRONT OF THE ARCHITECT."