

OREM CITY
2025 Public Safety Remodel Project

ADDENDUM #2

March 5, 2025

This ADDENDUM #2 shall become part of the Drawings, Specifications, and Contract Documents of the above referenced project and all provisions of the contract shall apply hereto.

Bidders shall acknowledge receipt of all addenda by number in the space provided in their Bid.

ITEM #1 – Revised Drawings

- The following Drawing sheets have been revised (see attached):
 - A2.1 – Clarified location of the locker room areas. Added additional items to be removed including existing range, fridge, counters, cabinets, & cubicles.
 - A3.2 – Revised Finish Legend
 - A8.1 – Revised to show removal of existing concrete slab/ceiling
 - M1.1 – Revised Mechanical Plan
 - M6.1 – Revised In-line Exhaust Fan Schedule
 - ED1.1 – Receptacle and data to remain
 - E1.2 – Revised Electrical Plan
 - E6.1 – Revised Panel Schedule
 - E6.2 – Revised Equipment Schedule

ITEM #2 – Revised Special Conditions

- The Special Conditions been revised (see attached):
 - Revised order of items to match bid schedule
 - Revised tile specifications for “ADD ALTERNATE 1 – CERAMIC TILE FLOORING (LOCKER ROOMS)”

ITEM #3 – Answered Questions

- **Question:** What is the Existing Fire Alarm Panel Make, Model, and location?
 - **Answer:** *The Fire Alarm Control Panel will not be relocated as part of the scope of this project. It is located upstairs in the northeast corner of the building. There is a remote panel in the main entry lobby that will remain as well. The panel brand is Edwards Systems technology and the model number is EST2.*
- **Question:** In panel 1LA, are the existing breakers for circuits 54, 70, 78, & 82 to be new or are we to reuse the existing breakers? The panel schedules lack information for these breakers.
 - **Answer:** *Circuits 54, 70, 78 and 82 are anticipated to have existing 20A spare breakers based on the existing drawings we received. See updated panel schedule on sheet E6.1.*

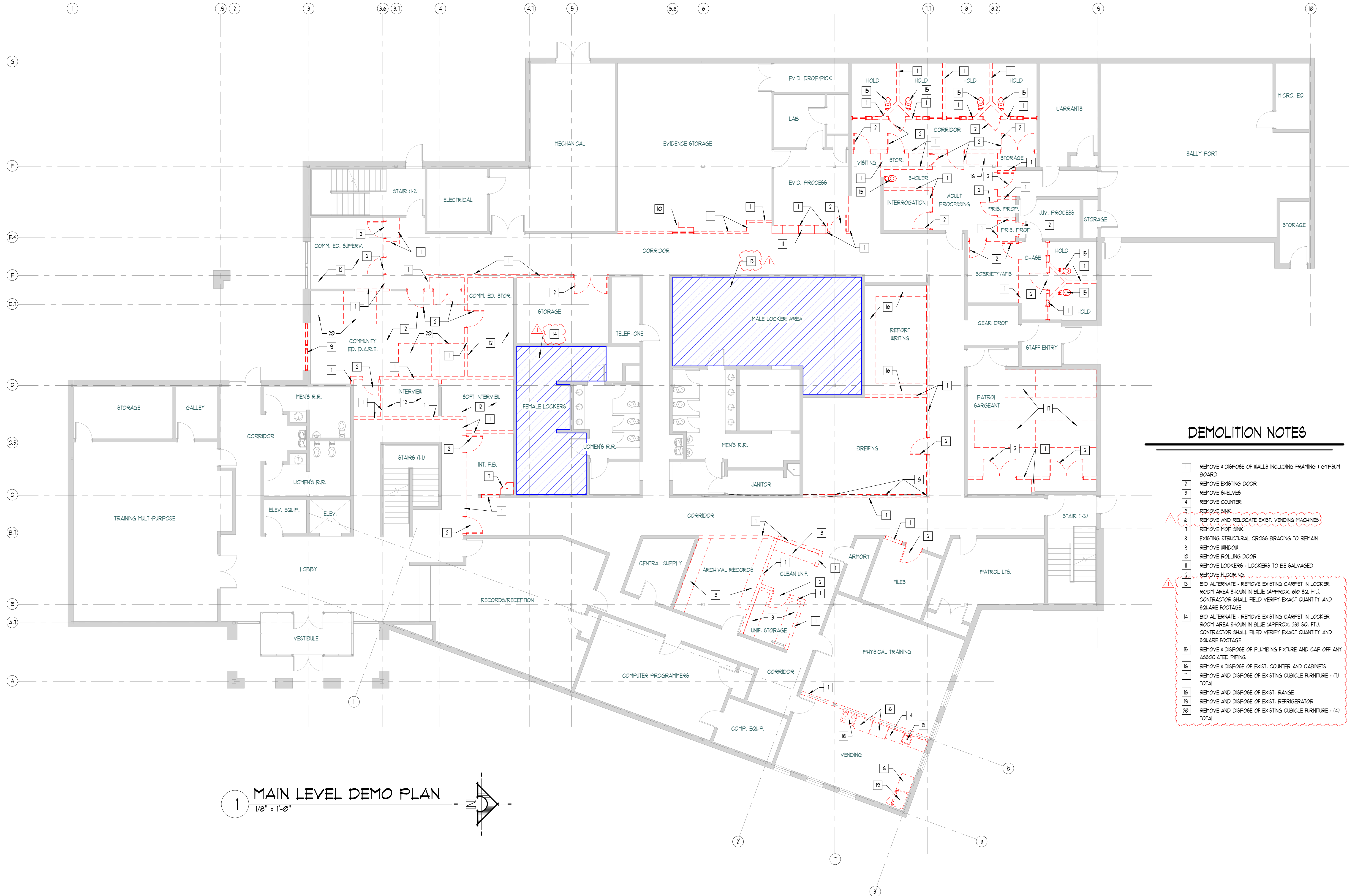
- **Question:** There are Communications, Data, Access Control, and Video Security are present in the existing space, and it was discussed during the pre-bid walkthrough that those systems would be installed in the renovated space as well. What is the extent of the contractor's responsibility regarding those systems? Are we to provide rough in only or are we to provide complete systems. The plans only indicate the locations for the Comm/Data devices. If we are to provide complete systems, please provide enough information for us to provide accurate pricing for that work. If we are to provide rough in only, please indicate on the plans the locations for the new Access Control and Video Security devices along with details for their installation.
 - **Answer:** *Contractors will need to provide the premise wiring only for the network. This would include patch panels, Cat6a cabling, conduits, low-voltage rings\boxes, jacks, and plates. They will also need to terminate, test and certify all wiring. Wireless Access Points should be white wire, and have two cables, Cameras should be orange wire, Data connections should be blue wire. Cameras terminate in the network rack with all other data connections.*

- **Question:** Emergency Lights – Some of the emergency lights circuits are fed from panel EMHA, some are fed from panel 1-HA with a GTD installed in the fixture, and one fixture is fed from panel 1HA without a GTD installed in the fixture. This seems inconsistent. Is this the intent of the design, or should these discrepancies be resolved.
 - **Answer:** *F1E fixture in top left of fitness room changed to F1 to remove emergency requirements. See sheet E1.2 for changes. Fixtures fed permanently from panel EMHA are designated night lights. Emergency fixtures fed from panel 1HA should be provided with a generator transfer device to change these to emergency power during emergency operation. Ensure the generator transfer devices are UL924 listed to restrict occupancy and manual control during emergency operation.*

- **Question:** There is a duplex receptacle and data outlet in the Fitness Room called out on ED1.1 to be demo'd but on E1.1 it is called out to remain. These devices are on the north side of the wall from the Gear Drop area. Are these devices existing to remain? Receptacle and data to remain.
 - **Answer:** *Receptacle and data to remain. See updated sheet ED1.1.*

- **Question:** I'm reviewing the plans and specifications but haven't been able to locate the specific requirements for the polished concrete. Could you please provide me with the desired level of aggregate exposure and gloss level they wish to achieve?
 - **Answer:** *Concrete shall be polished to a level #2 finish with a clear finish. See sheet A3.2.*





FINISH LEGEND

| BASE | | | | | |
|----------|---------------------------------|------------------------|--|----------------|---|
| MARK | MATERIAL TYPE | MANUFACTURER | # / COLOR | SIZE | NOTES |
| RB | RUBBER BASE | MATCH EXISTING | MATCH EXISTING | MATCH EXISTING | FIELD VERIFY EXISTING BASE AND MATCH FOR REMODELED AREAS WHERE DESIGNATED |
| FLOORS | | | | | |
| MARK | MATERIAL TYPE | MANUFACTURER | # / COLOR | SIZE | NOTES |
| CONC | POLISHED CONCRETE | N/A | COLOR: CLEAR | N/A | POLISH EXIST. CONCRETE TO A LEVEL #2 FINISH |
| CPT | CARPET TILE | PATCRAFT | COLLECTION STYLE: ARTFUL + TEXTURED CHARCOAL | 24" x 24" | INSTALL IN QUARTER TURN PATTERN |
| PTF | PORCELAIN TILE FLOOR | DALTILE | STYLE: HARMONIST COLOR: AS SELECTED BY OWNER | 12" x 12" | GROUT COLOR TBD. ALSO USED FOR BID ALT. #1 - IN LOCKER ROOM AREAS. |
| LVT | LUXURY VINYL TILE | PATCRAFT | STYLE: TIMBER GROVE II (2 MM) COLOR: SPROUT - V2 0013 | 6" x 48" | INSTALL IN BRICK PATTERN |
| EPXY | EPOXY COATING | ALTA PAINTS + COATINGS | FIRST COAT: ALTA 4500 EPOXY w/ FLAKES (COLOR TO BE SELECTED BY OWNER) SECOND COAT: ALTA 3500 FREM. EPOXY GROUT COAT THIRD COAT: ALTA 6500 POLYASPARTIC TOPCOAT | N/A | USED FOR BID ALT. #1 - IN LOCKER ROOM AREAS OVER EXIST. CONC. AFTER CARPET IS REMOVED |
| WALLS | | | | | |
| MARK | MATERIAL TYPE | MANUFACTURER | # / COLOR | SIZE | NOTES |
| PTDU-1 | TEXTURED AND PAINTED GYP. BOARD | SHERWIN WILLIAMS | COLOR: REPOSE GRAY | N/A | WALL FIELD COLOR |
| PTDU-2 | TEXTURED AND PAINTED GYP. BOARD | SHERWIN WILLIAMS | COLOR: IRON ORE | N/A | TRIM COLOR |
| CTW | CERAMIC TILE WALL | SELECTED BY OWNER | COLOR: SELECTED BY OWNER | N/A | AS SELECTED BY OWNER |
| EXIST | EXISTING WALL | N/A | N/A | N/A | EXISTING WALL FINISH TO REMAIN |
| CEILING | | | | | |
| MARK | MATERIAL TYPE | MANUFACTURER | # / COLOR | SIZE | NOTES |
| PTDC | PAINTED GYP. BOARD | MATCH EXISTING | MATCH EXISTING | N/A | FIELD VERIFY EXISTING COLOR AND MATCH FOR REMODELED AREAS WHERE DESIGNATED |
| ACT | ACOUSTIC CEILING TILE | ARMSTRONG | STYLE: CORTESA SQUARE LAY-IN COLOR: WHITE | 24" x 24" | NON-REGULAR - FLAT LAY-IN |
| EXIST | EXISTING CEILING | N/A | N/A | N/A | EXISTING CEILING FINISH TO REMAIN |
| MILLWORK | | | | | |
| MARK | MATERIAL TYPE | MANUFACTURER | # / COLOR | SIZE | NOTES |
| PLAM-1 | PLASTIC LAMINATE COUNTER | NEVAMAR | COLOR: WHITE ESSENCE (E51001) | N/A | MATTE FINISH |
| PLAM-2 | CABINETS | WILSONART | COLOR: TBD | N/A | -- |
| QC | QUARTZ COUNTER | HANSTONE | COLOR: AURORA SNOW - CL101 | N/A | -- |

FINISH SCHEDULE

| R O O M N U M B E R | ROOM NAME | FLOOR FINISH | BASE FINISH | WALL FINISH | | | | CEILING FINISH | COMMENTS |
|--|---------------------|--------------|-------------|-------------|------------|------------|------------|----------------|----------------------------|
| | | | | NORTH | EAST | SOUTH | WEST | | |
| 100 | WAITING | LVT | RB | PTDU-H | PTDU-H | PTDU-H | PTDU-H | ACT-1 | |
| 101 | RECP | LVT | RB | PTDU-H | PTDU-H | PTDU-H | PTDU-H | ACT-1 | |
| 102 | OFFICE | CPT | RB | PTDU-H | PTDU-H | PTDU-H | PTDU-H | ACT-1 | |
| 103 | PHARM. DISP. | LVT | RB | PTDU-H | PTDU-H | PTDU-H | PTDU-H | ACT-1 | |
| 107 | NURSE STATION | LVT | RB | PTDU-H | PTDU-H | PTDU-H | PTDU-H | ACT-1 | |
| 108 | LAB | LVT | RB | PTDU-H | PTDU-H | PTDU-H | PTDU-H | ACT-1 | |
| 110 | VITALS STATION | LVT | RB | PTDU-H | PTDU-H | PTDU-H | PTDU-H | ACT-1 | |
| 111 | TOILET | FWT | NONE | CTW/PTDU-H | CTW/PTDU-H | CTW/PTDU-H | CTW/PTDU-H | PTDC | |
| 114 | I.T. | CONC. | NONE | PTDU-H | PTDU-H | PTDU-H | PTDU-H | ACT-1 | |
| 115 | INT. F.B. | CONC. | RB | PTDU-H | PTDU-H | PTDU-H | PTDU-H | ACT-1 | |
| 116 | INT. F.B. | CONC. | RB | PTDU-H | PTDU-H | PTDU-H | PTDU-H | ACT-1 | |
| 120 | EVIDENCE STORAGE | CONC. | RB | EXIST. | PTDU-H | EXIST. | EXIST. | PTDC | REMOVE EXIST. FLOOR FINISH |
| 123 | EVIDENCE PROCESSING | CONC. | RB | EXIST. | PTDU-H | EXIST. | PTDU-H | ACT | REMOVE EXIST. FLOOR FINISH |
| 127 | FITNESS ROOM | CONC. | RB | EXIST. | PTDU-H | EXIST. | PTDU-H | ACT | REMOVE EXIST. FLOOR FINISH |
| 129 | JUV. PROCESS | CONC. | RB | EXIST. | EXIST. | EXIST. | PTDU-H | EXIST. | REMOVE EXIST. FLOOR FINISH |
| 132 | STORAGE | CONC. | RB | EXIST. | EXIST. | EXIST. | EXIST. | ACT-1 | REMOVE EXIST. FLOOR FINISH |
| 134 | GEAR DROP | CONC. | RB | PTDU-H | EXIST. | EXIST. | EXIST. | EXIST. | REMOVE EXIST. FLOOR FINISH |
| 147 | CORRIDOR | CONC. | RB | PTDU-H | EXIST. | PTDU-H | PTDU-H | EXIST. | REMOVE EXIST. FLOOR FINISH |
| 148 | CONFERENCE ROOM | CONC. | RB | PTDU-H | PTDU-H | PTDU-H | PTDU-H | ACT-1 | REMOVE EXIST. FLOOR FINISH |
| 149 | FILES | CONC. | RB | PTDU-H | PTDU-H | PTDU-H | PTDU-H | PTDC | REMOVE EXIST. FLOOR FINISH |
| 153 | CORRIDOR | CONC. | RB | EXIST. | EXIST. | EXIST. | PTDU-H | EXIST. | REMOVE EXIST. FLOOR FINISH |
| 155 | BREAK ROOM | CONC. | RB | PTDU-H | PTDU-H | PTDU-H | PTDU-H | ACT-1 | REMOVE EXIST. FLOOR FINISH |



OREM CITY
PUBLIC
SAFETY
BUILDING
INTERIOR REMODEL

95 E. Center Street
Orem, Utah 84057



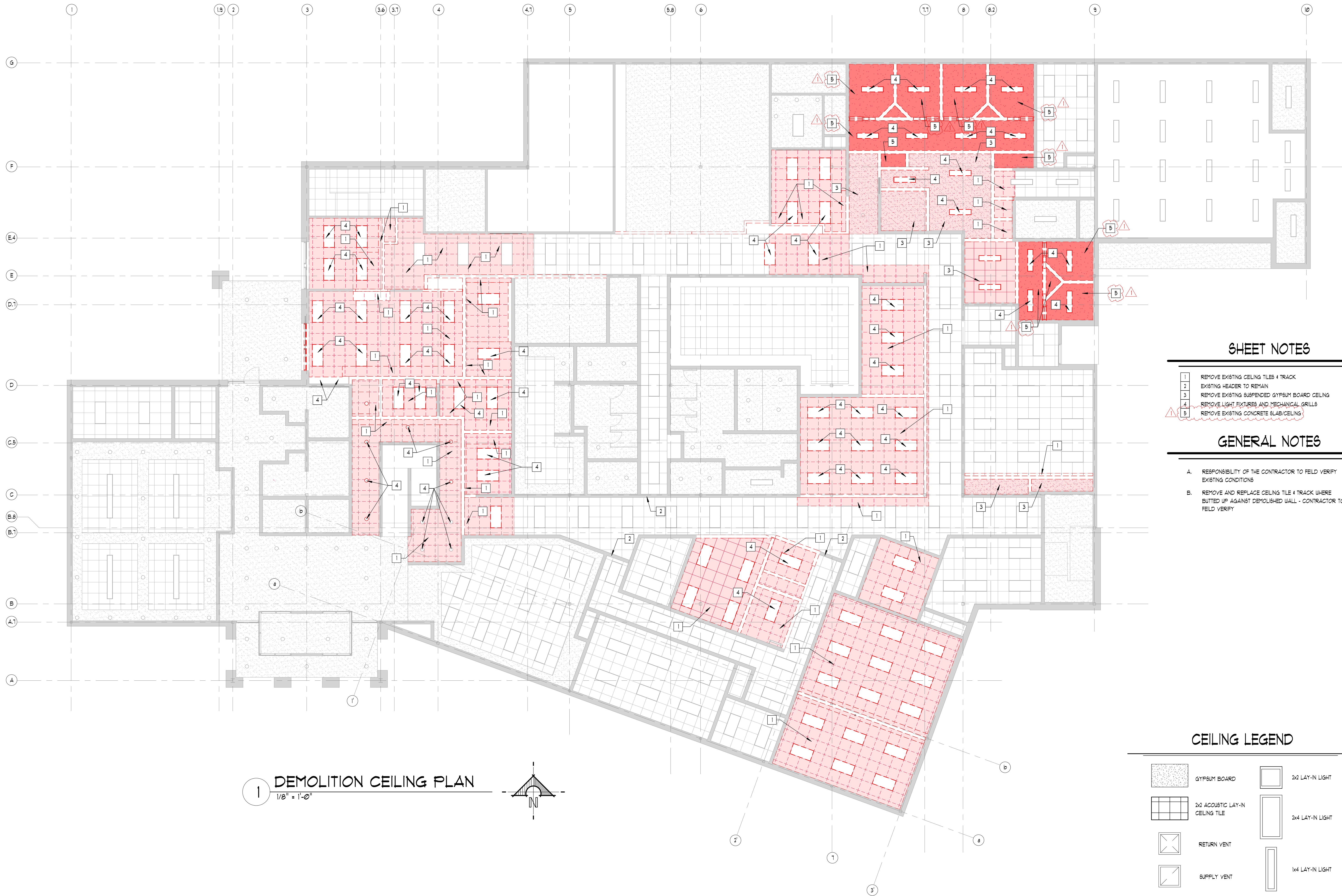
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NOVEMBER 20, 2024
milestone issue description
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latest revision date
03-03-25
latest revision description
APPENDUM #01

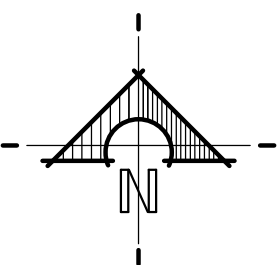
ROOM FINISH SCHEDULE

A3.2

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1 DEMOLITION CEILING PLAN
1/8" = 1'-0"



SHEET NOTES

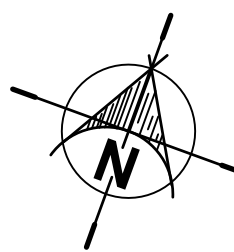
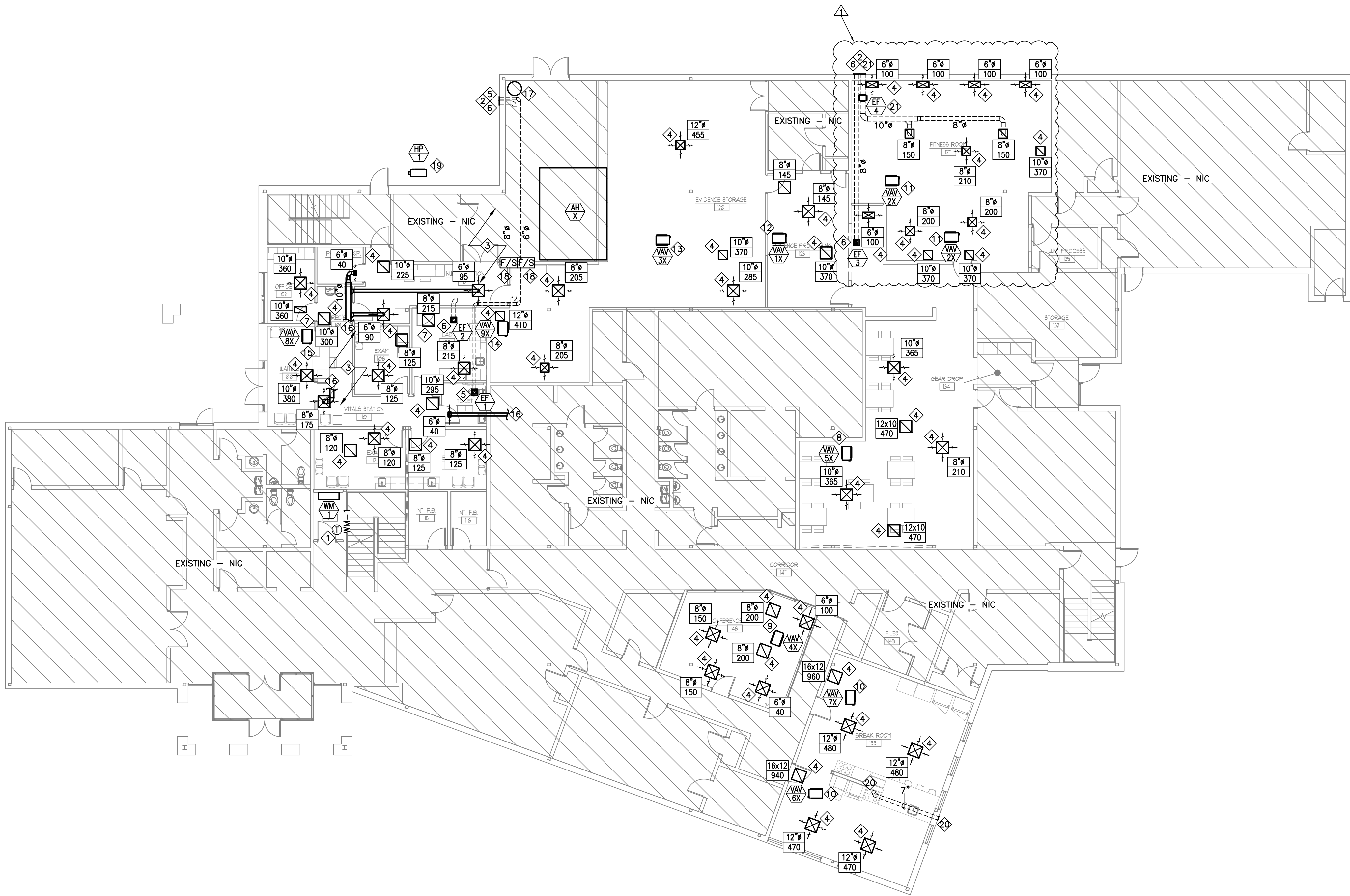
- | | |
|---|--|
| 1 | REMOVE EXISTING CEILING TILES & TRACK |
| 2 | EXISTING HEADER TO REMAIN |
| 3 | REMOVE EXISTING SUSPENDED GYPSUM BOARD CEILING |
| 4 | REMOVE LIGHT FIXTURES AND MECHANICAL GRILLS |
| 5 | REMOVE EXISTING CONCRETE SLAB/CEILING |

GENERAL NOTES

- A. RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS
- B. REMOVE AND REPLACE CEILING TILE & TRACK WHERE BUTTED UP AGAINST DEMOLISHED WALL - CONTRACTOR TO FIELD VERIFY

CEILING LEGEND

- | | | | |
|--|----------------------------------|--|--------------------|
| | GYPSUM BOARD | | 2x2 LAY-IN LIGHT |
| | 2x2 ACOUSTIC LAY-IN CEILING TILE | | 2x4 LAY-IN LIGHT |
| | RETURN VENT | | 1x4 LAY-IN LIGHT |
| | SUPPLY VENT | | RECESSED CAN LIGHT |



MAIN LEVEL MECHANICAL PLAN

SCALE: 3/32" = 1'-0"

MECHANICAL KEYED NOTES:

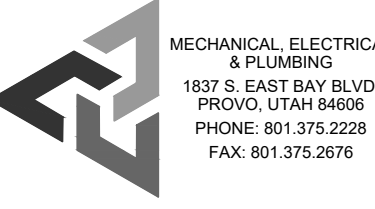
- FIELD VERIFY 7-DAY PROGRAMMABLE THERMOSTAT LOCATION WITH OWNERS REPRESENTATIVE. INSTALL THERMOSTAT AT 48" A.F.F. SECURE T-STAT TO WALL TO PREVENT REMOVAL FROM ROOM SERVED.
- ALL EXHAUST AIR DUCTING SHALL TERMINATE WITH A BACKDRAFT DAMPER AND MANUFACTURER/OWNERS REPRESENTATIVE RECOMMENDED TERMINATION GRILLE AT A MINIMUM OF 3 FEET FROM OPERABLE BUILDING OPENINGS AND 10' FROM MECHANICAL FRESH AIR INTAKES (IMC SECTION 501.3.1 #3).
- DUCTING HAS BEEN SHOWN TO REFLECT INSTALLATION OF DUCTING TO BE WITHIN AN ARCHITECTURAL SOFFIT/DROP. COORDINATE SOFFIT/DROPS WITH ARCHITECTURAL DRAWINGS FOR FINAL LOCATIONS AND DIMENSIONS.
- APPROXIMATE LOCATION OF GRILLE(S) TO REMAIN. DUCTING IS BE CLEANED AND REMAIN. REBALANCE GRILLES TO THE CFM LISTED ON PLANS.
- PROVIDE AND INSTALL 6" ROUND EXHAUST DUCT TO OWNERS REPRESENTATIVE APPROVED EXHAUST VENT TERMINATION. VERIFY LOCATION IN FIELD. ACTUAL DUCT SIZE DETERMINED BY EXHAUST FAN OUTLET. EXHAUST TERMINATION SHALL BE 3' FROM ANY OPERABLE WINDOW/DOOR.
- PROVIDE AND INSTALL 8" ROUND EXHAUST DUCT TO OWNERS REPRESENTATIVE APPROVED EXHAUST VENT TERMINATION. VERIFY LOCATION IN FIELD. ACTUAL DUCT SIZE DETERMINED BY EXHAUST FAN OUTLET. EXHAUST TERMINATION SHALL BE 3' FROM ANY OPERABLE WINDOW/DOOR.
- PROVIDE AND INSTALL CEILING RETURN AIR GRILLE AND BOOT FOR PLENUM RETURN. GRILLE SHALL BE SIZED PER CFM NOTED WITH AN NC OF NO GREATER THAN 25. SEE PLENUM AIR BOOT DETAIL FOR MORE INFORMATION.
- MINIMUM ZONE REQUIREMENT: 28,080 BTU/H OF COOLING AND 50,478 BTU/H OF HEATING. IF MECHANICAL EQUIPMENT IS NOT SUFFICIENT THEN IT IS REQUIRED TO UPSIZE VAV UNITS TO MINIMUM ZONE REQUIREMENT.
- MINIMUM ZONE REQUIREMENT: 12,360 BTU/H OF COOLING AND 7,058 BTU/H OF HEATING. IF MECHANICAL EQUIPMENT IS NOT SUFFICIENT THEN IT IS REQUIRED TO UPSIZE VAV UNITS TO MINIMUM ZONE REQUIREMENT.
- MINIMUM ZONE REQUIREMENT: 17,940 BTU/H OF COOLING AND 14,635 BTU/H OF HEATING. IF MECHANICAL EQUIPMENT IS NOT SUFFICIENT THEN IT IS REQUIRED TO UPSIZE VAV UNITS TO MINIMUM ZONE REQUIREMENT.
- MINIMUM ZONE REQUIREMENT: 16,560 BTU/H OF COOLING AND 6,623 BTU/H OF HEATING. UPSIZE MECHANICAL EQUIPMENT TO MEET THE MINIMUM ZONE REQUIREMENT.
- MINIMUM ZONE REQUIREMENT: 1,440 BTU/H OF COOLING AND 1,228 BTU/H OF HEATING. IF MECHANICAL EQUIPMENT IS NOT SUFFICIENT THEN IT IS REQUIRED TO UPSIZE VAV UNITS TO MINIMUM ZONE REQUIREMENT.
- MINIMUM ZONE REQUIREMENT: 7,380 BTU/H OF COOLING AND 9,805 BTU/H OF HEATING. IF MECHANICAL EQUIPMENT IS NOT SUFFICIENT THEN IT IS REQUIRED TO UPSIZE VAV UNITS TO MINIMUM ZONE REQUIREMENT.
- MINIMUM ZONE REQUIREMENT: 21,780 BTU/H OF COOLING AND 24,901 BTU/H OF HEATING. IF MECHANICAL EQUIPMENT IS NOT SUFFICIENT THEN IT IS REQUIRED TO UPSIZE VAV UNITS TO MINIMUM ZONE REQUIREMENT.
- MINIMUM ZONE REQUIREMENT: 37,080 BTU/H OF COOLING AND 26,453 BTU/H OF HEATING. UPSIZE MECHANICAL EQUIPMENT TO MEET MINIMUM ZONE REQUIREMENT.
- MAKE CONNECTION TO EXISTING SUPPLY AIR DUCTING IN THIS APPROXIMATE LOCATION.
- APPROXIMATE LOCATION OF EXISTING NATURAL GAS WATER HEATER.
- PROVIDE AND INSTALL FIRE-SMOKE DAMPER AT FIRE BARRIER PENETRATION. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- ANTICIPATED LOCATION OF HEAT PUMP UNIT INSTALLED ON WALL BRACKET PER MANUFACTURERS RECOMMENDATIONS AS HIGH AS POSSIBLE (48" BELOW ROOF STRUCTURE MINIMUM ANTICIPATED). VERIFY CLEARANCES WITH MANUFACTURER INSTALLED.
- PROVIDE AND INSTALL 7" OR 10"x4" KITCHEN HOOD EXHAUST DUCT TO OWNER'S REPRESENTATIVE APPROVED EXHAUST VENT TERMINATION. EXHAUST HOOD DESIGN GUIDE: GE-VVX SERIES (ADA UNITS) AND GE PROFILE SERIES - DUCTED EXHAUST. 300 CFM MAXIMUM EXHAUST AIRFLOW. VERIFY LOCATION AND ROUTING IN FIELD WITH HOOD INSTALLED AND STRUCTURE. ACTUAL DUCT SIZE DETERMINED BY EXHAUST HOOD OUTLET. COORDINATE FINISH WITH OWNER'S REPRESENTATIVE PRIOR TO ORDERING.
- PROVIDE AND INSTALL 10" ROUND EXHAUST DUCT TO OWNERS REPRESENTATIVE APPROVED EXHAUST VENT TERMINATION. VERIFY LOCATION IN FIELD. ACTUAL DUCT SIZE DETERMINED BY EXHAUST FAN OUTLET. EXHAUST TERMINATION SHALL BE 3' FROM ANY OPERABLE WINDOW/DOOR.

GENERAL SHEET NOTES:

- ALL DUCTING SHALL BE ROUTED BELOW THE FIRE BARRIER (IN DROPPED CEILING) OR BE CONSTRUCTED OF 26 GAUGE OR THICKER DUCTING PER 2021 IMC 607.6.1 (MUST MEET ALL EXCEPTIONS).



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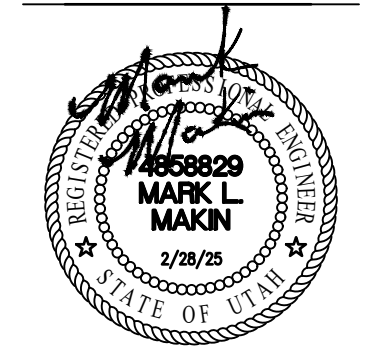


OREM
FAMILY CITY USA

**OREM CITY
PUBLIC
SAFETY
BUILDING**

**FIRST FLOOR
INTERIOR REMODEL**

95 E. Center Street
Orem, Utah 84057






















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| no. | date | description |
| 1 | 02.28.25 | BID QUESTIONS |

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|-----------------------------|
| milestone issue date |
| NOVEMBER 2024 |
| milestone issue description |
| PERMIT SET |
| latest revision date |
| latest revision description |

drawing title
**MAIN LEVEL
MECHANICAL PLAN**



M1.1










| EXISTING AIR HANDLER SCHEDULE | | | | | | | | |
|---|-------------------|----------------------------|----------|--|--|------------|---------------|-----------|
| MARK | DESIGN GUIDE | NOMINAL COOLING SUPPLY CFM | ESP (IN) | DELIVERED MINIMUM COOLING AT SITE CONDITIONS (BTU/H) | DELIVERED MINIMUM HEATING AT SITE CONDITIONS (BTU/H) | ELECTRICAL | | REMARKS |
| | | | | | | VOLT/PH/HZ | RATED LOAD HP | |
|  1 | TRANE MCC SIZE 50 | 29,360 | 2.1 | 611,800 | 1,083,700 | 460/3/60 | 30 | SEE NOTES |
| <div><div><div>1</div><div>2</div><div>3</div><div>4</div></div><div>FULL SERVICE AND A COMPONENT CHECK SHALL BE PERFORMED FOR EACH EXISTING AIR HANDLER. IT SHALL BE PERFORMED FOR A MINIMUM OF TWO HOURS (ON SITE) PER UNIT. THIS SHALL INCLUDE BUT IS NOT LIMITED TO:</div><div><div><div>• A REFRIGERANT LEAK TEST</div><div>• VERIFICATION OF REFRIGERANT CHARGE</div><div>• A VISUAL INSPECTION OF COILS</div><div>• REPLACEMENT OF ALL BELTS (IF APPLICABLE, LEAVE ONE SPARE OF EACH SIZE)</div><div>• REPLACEMENT OF FILTERS</div><div>• CHECKING ALL MOTORS AND FANS (INCLUDING THE CONDENSER FAN MOTOR)</div><div>• CHECKING ALL CAPACITORS AND CONTACTORS</div><div>• CHECKING THE FUNCTIONALITY OF ECONOMIZER (IF APPLICABLE)</div><div>• CHECKING THERMOSTAT OPERATION AND CONTROL</div><div>• VERIFICATION THAT ENTERING AND LEAVING AIR TEMPERATURE OF ALL STAGES OF COOLING AND HEATING ARE WITHIN SPECIFICATIONS</div><div>• CLEANING OF EVAPORATOR COILS BY MANUFACTURER RECOMMENDED PROCEDURE</div><div>• CHECKING ALL CONTROLS</div><div>• CLEANING THE CONDENSATE PANS/DRAINS</div><div>• CHECKING ACCESS AND MAINTENANCE DOOR HINGES AND LATCHES</div><div>• VERIFY THAT UNIT IS CAPABLE OF BRINGING IN RESPECTIVE OUTSIDE AIR AMOUNTS INDICATED IN OUTSIDE AIR BALANCING SCHEDULE</div></div><div>TESTS SHOULD ONLY BE PERFORMED WHEN OUTSIDE AIR TEMPERATURE IS WITHIN RECOMMENDED RANGE. IT MAY BE NECESSARY TO PERFORM HEATING AND/OR COOLING TESTS ON A DIFFERENT DAY WHEN THE TEMPERATURE IS WITHIN THE ACCEPTABLE RANGE.</div></div></div> | | | | | | | | |

| EXISTING HORIZONTAL FAN COIL UNIT SCHEDULE | | | | | | | | | | | |
|--|----------------|----------------------------|-------|-------|-----------|-----|--------------------------|------|---------------|--------|---|
| MARK | AIR FLOW (CFM) | STATIC PRESSURE (IN. W.C.) | EWT | LWT | EAT/LAT | GPM | WATER PRESSURE HEAD LOSS | ROWS | CONTROL VALVE | MAX NC | REMARKS |
|  1X | 275 | 0.3 MIN. | 200°F | 160°F | 55°F/95°F | -- | -- | -- | -- | 25 |  |
|  2X | 435 | 0.3 MIN. | 200°F | 160°F | 55°F/95°F | -- | -- | -- | -- | 25 |  |
|  3X | 575 | 0.3 MIN. | 200°F | 160°F | 55°F/95°F | -- | -- | -- | -- | 25 |  |
|  4X | 615 | 0.3 MIN. | 200°F | 160°F | 55°F/95°F | -- | -- | -- | -- | 25 |  |
|  5X | 855 | 0.3 MIN. | 200°F | 160°F | 55°F/95°F | -- | -- | -- | -- | 25 |  |
|  6X | 940 | 0.3 MIN. | 200°F | 160°F | 55°F/95°F | -- | -- | -- | -- | 25 |  |
|  7X | 960 | 0.3 MIN. | 200°F | 160°F | 55°F/95°F | -- | -- | -- | -- | 25 |  |
|  8X | 1,180 | 0.3 MIN. | 200°F | 160°F | 55°F/95°F | -- | -- | -- | -- | 25 |  |
|  9X | 1,225 | 0.3 MIN. | 200°F | 160°F | 55°F/95°F | -- | -- | -- | -- | 25 |  |
| <div><div><div>1</div><div>2</div><div>3</div></div><div>BASIS OF DESIGN: KRUEGER LMHS. APPROVED MANUFACTURERS: TITUS, PRICE. (SUBJECT TO PROJECT DOCUMENT CONFORMANCE)</div><div><div><div>2</div><div>3</div></div><div>FULL SERVICE AND A COMPONENT CHECK SHALL BE PERFORMED FOR EACH EXISTING ROOF TOP UNIT. IT SHALL BE PERFORMED FOR A MINIMUM OF TWO HOURS (ON SITE) PER UNIT. THIS SHALL INCLUDE BUT IS NOT LIMITED TO:</div><div><div><div>• A PIPING LEAK TEST</div><div>• A VISUAL INSPECTION OF COILS</div><div>• REPLACEMENT OF ALL BELTS (IF APPLICABLE, LEAVE ONE SPARE OF EACH SIZE)</div><div>• REPLACEMENT OF FILTERS</div><div>• CHECKING ALL MOTORS AND FANS</div><div>• CHECKING ALL CAPACITORS AND CONTACTORS</div><div>• CHECKING THERMOSTAT OPERATION AND CONTROL</div><div>• VERIFICATION THAT ENTERING AND LEAVING AIR TEMPERATURE OF ALL STAGES OF COOLING AND HEATING ARE WITHIN SPECIFICATIONS</div><div>• CLEANING OF COILS BY MANUFACTURER RECOMMENDED PROCEDURE</div><div>• CHECKING ALL CONTROLS</div><div>• CLEANING THE CONDENSATE PANS/DRAINS</div><div>• CHECKING ACCESS AND MAINTENANCE DOOR HINGES AND LATCHES</div><div>• VERIFY THAT UNIT IS CAPABLE OF BRINGING IN RESPECTIVE OUTSIDE AIR AMOUNTS INDICATED IN OUTSIDE AIR BALANCING SCHEDULE</div></div><div>TESTS SHOULD ONLY BE PERFORMED WHEN OUTSIDE AIR TEMPERATURE IS WITHIN RECOMMENDED RANGE. IT MAY BE NECESSARY TO PERFORM HEATING AND/OR COOLING TESTS ON A DIFFERENT DAY WHEN THE TEMPERATURE IS WITHIN THE ACCEPTABLE RANGE.</div></div></div></div> | | | | | | | | | | | |
| <div><div><div>3</div><div>4</div></div><div>ACOUSTICALLY LINE DUCTING FOR A MINIMUM OF 10' DOWNSTREAM FROM UNIT.</div></div> | | | | | | | | | | | |

| CEILING EXHAUST FAN SCHEDULE | | | | | | | | | |
|--|-------------|--------------------------------|------------------|-------|-------|-------|--------------------|------------------------------------|---------|
| MARK | NOMINAL CFM | TOTAL STATIC PRESSURE IN. W.C. | ELECTRICAL | | | | SOUND RATING SONES | SELECTION BASED ON GREENHECK MODEL | REMARKS |
| | | | RATED LOAD WATTS | VOLTS | HERTZ | PHASE | | | |
| EF 1 | 75 | 0.25 | 14.3 | 115 | 60 | 1 | 0.9 | SP-A110 | 1 2 3 4 |
| EF 2 | 150 | 0.25 | 16.6 | 115 | 60 | 1 | 2.0 | SP-A390-VG | 1 3 4 5 |
| EF 3 | 175 | 0.25 | 41.4 | 115 | 60 | 1 | 1.5 | SP-A190 | 1 2 3 4 |
| 1 APPROVED MANUFACTURERS: BROAN, FANTECH, ACME, CARNES, PENN, COOK, BREIDERT, COOLAIR, CAPTIVE AIRE, S&P, GREENHECK, TWIN CITY FAN, DELTA BREEZ, AIR KING. (SUBJECT TO PROJECT DOCUMENT CONFORMANCE) | | | | | | | | | |
| 2 CONTROL WITH LIGHTS BY ELECTRICAL CONTRACTOR. | | | | | | | | | |
| 3 EXHAUST FAN SHALL HAVE INTEGRAL BACKDRAFT DAMPER. | | | | | | | | | |
| 4 WITH METAL GRILLE KIT. | | | | | | | | | |
| 5 CONTROL BY ELECTRICAL CONTRACTOR WITH SEPARATE CONTROL SWITCH. | | | | | | | | | |

| FAN COIL SCHEDULE - INDOOR UNIT | | | | | | | | | |
|---|------------------------------|----------------------------|----------|--|--|------------|----------|-----------|---|
| MARK | DESIGN GUIDE | NOMINAL COOLING SUPPLY CFM | ESP (IN) | DELIVERED MINIMUM COOLING AT SITE CONDITIONS (BTU/H) | DELIVERED MINIMUM HEATING AT SITE CONDITIONS (BTU/H) | ELECTRICAL | | | REMARKS |
| | | | | | | VOLT/PH/HZ | UNIT MCA | UNIT MOCP | |
| <div><div>WV</div><div>1</div></div> | MITSUBISHI PKA-A12 SERIES | 385 | 0.6 | 12,000 | 10,600 | 208/1/60 | 1.0 | 15 | <div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div></div> |
| <div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div></div><div>SITE CONDITIONS ARE 98/62° DB/WB SUMMER, 3°F DB WINTER, AND AN ELEVATION OF 4,250 FEET ABOVE SEA LEVEL.</div><div>APPROVED MANUFACTURERS: CARRIER, TRANE, LENNOX, SAMSUNG, MITSUBISHI, DAIKIN. (SUBJECT TO DOCUMENT CONFORMANCE).</div><div>MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL SYSTEMS FOR COLD WEATHER HEATING PER MANUFACTURER RECOMMENDATIONS.</div><div>SEE HEAT PUMP UNIT SCHEDULE FOR OUTDOOR UNIT INFORMATION.</div><div>ELECTRICAL CONTRACTOR SHALL PROVIDE CONNECTION BETWEEN INDOOR AND OUTDOOR UNIT (INDOOR UNIT POWERED BY OUTDOOR UNIT).</div><div>MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL ALL MANUFACTURER RECOMMENDED MOUNTING HARDWARE.</div><div>MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL CONDENSATE PIPING TO PLUMBING CONTRACTOR PROVIDED WALL BOX.</div><div>MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL PAC-US444CN-1 THERMOSTAT ADAPTER.</div></div> | | | | | | | | | |

| SINGLE ZONE HEAT PUMP UNIT SCHEDULE - OUTDOOR UNIT | | | | | | | | |
|--|---------|--------------------------------|--------------------------------|------------------------|-----|------|--|--|
| MARK | TONNAGE | RATED COOLING CAPACITY (BTU/H) | HEATING CAPACITY @ 5°F (BTU/H) | ELECTRICAL | | | NOTES | |
| | | | | VOLTAGE | MCA | MOCP | | |
|  1 | 1 | 12,000 | 10,600 | 208/230V 1-PHASE 60 Hz | 11 | 28 | MAX OPERATING WEIGHT: 175 LBS. MINIMUM EFFICIENCY: 21.3 SEER2/10.2 HSPF2 |  |
| <div><div><div>1</div><div>2</div><div>3</div><div>4</div></div><div>APPROVED MANUFACTURERS: TRANE, CARRIER, DAIKIN, SAMSUNG, FUJITSU, MITSUBISHI, LENNOX. (SUBJECT TO PROJECT DOCUMENT CONFORMANCE).</div><div>INSTALL PER MANUFACTURER RECOMMENDATIONS.</div><div>PROVIDE SNOW STAND AND WIND BAFFLES, AND LOW AMBIENT KIT FOR OPERATION TO 0°F.</div><div>PROVIDE REFRIGERANT PIPING PER MANUFACTURERS RECOMMENDATIONS. DESIGN GUIDE MITSUBISHI SUZ SERIES.</div></div> | | | | | | | | |

| OUTSIDE AIR BALANCING SCHEDULE | | | | |
|--|----------------------------|----------------|-------------------|--|
| MARK | ZONE / AREA | BALANCE TO CFM | MINIMUM DUCT SIZE | REMARKS |
|  1X | EVIDENCE STORAGE CLOSET | 15 | -- | VIA EXISTING AIR HANDLER OUTSIDE AIR SYSTEM. |
|  2X | FITNESS ROOM | 125 (X2) | -- | VIA EXISTING AIR HANDLER OUTSIDE AIR SYSTEM. |
|  3X | EVIDENCE STORAGE | 90 | -- | VIA EXISTING AIR HANDLER OUTSIDE AIR SYSTEM. |
|  4X | CONFERENCE ROOM | 110 | -- | VIA EXISTING AIR HANDLER OUTSIDE AIR SYSTEM. |
|  5X | SEATING AREA | 325 | -- | VIA EXISTING AIR HANDLER OUTSIDE AIR SYSTEM. |
|  6X | BREAK ROOM | 90 | -- | VIA EXISTING AIR HANDLER OUTSIDE AIR SYSTEM. |
|  7X | BREAK ROOM | 90 | -- | VIA EXISTING AIR HANDLER OUTSIDE AIR SYSTEM. |
|  8X | RECEPTION/EXAM AREA | 200 | -- | VIA EXISTING AIR HANDLER OUTSIDE AIR SYSTEM. |
|  9X | EVIDENCE STORAGE/EXAM AREA | 250 | -- | VIA EXISTING AIR HANDLER OUTSIDE AIR SYSTEM. |

| IN-LINE EXHAUST FAN SCHEDULE | | | | | | | | | |
|---|-------------|--------------------------------|---------|------------|-------|-------|-------|------------------------------------|-------------|
| MARK | NOMINAL CFM | TOTAL STATIC PRESSURE IN. W.C. | FAN RPM | ELECTRICAL | | | | SELECTION BASED ON GREENHECK MODEL | REMARKS |
| | | | | RATED LOAD | VOLTS | HERTZ | PHASE | | |
| <div>EF4</div> | 300 | 0.25 | 967 | 41.3 W | 115 | 60 | 1 | 1.0 | CSP-A510-VG |
| <div><div><div>1</div><div>2</div><div>3</div></div><div>APPROVED MANUFACTURERS: BROAN, FANTECH, ACME, CARNES, PENN, COOK, BREIDERT, COOLAIR, CAPTIVE AIRE, S&P, GREENHECK, TWIN CITY FAN, DELTA BREEZ, AIR KING. (SUBJECT TO PROJECT DOCUMENT CONFORMANCE)</div><div><div><div>2</div><div>3</div></div><div>PROVIDE AND INSTALL BACKDRAFT DAMPER AT THERMAL ENVELOPE PENETRATION.</div><div>CONTROL WITH LIGHTS BY ELECTRICAL CONTRACTOR.</div></div></div> | | | | | | | | | |

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PHONE: 801.375.2228 FAX: 801.375.2576

ROYAL

ENGINEERING

JOB# 14118.00 DATE PLOTTED: 02/28/2025

OREM

FAMILY CITY USA

OREM CITY PUBLIC SAFETY BUILDING

FIRST FLOOR INTERIOR REMODEL

95 E. Center Street
Orem, Utah 84057

REGISTERED PROFESSIONAL ENGINEER

1858829

MARK L. MARK

1/28/15

STATE OF UTAH

revision information

| no | date | description |
|----|----------|---------------|
| 1 | 02.28.25 | BID QUESTIONS |

milestone issue date

NOVEMBER 2024

milestone issue description

PERMIT SET

latest revision date

latest revision description

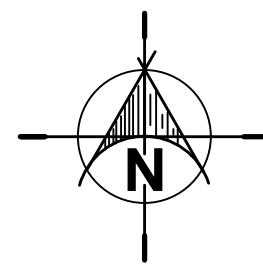
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MECHANICAL SCHEDULES

M6.1



- ELECTRICAL KEYED NOTES:**
- ◇ HATCHED AREA OUTSIDE OF SCOPE.
 - ◇ REMOVE EXISTING ELECTRICAL DEVICE(S) COMPLETE.
 - ◇ EXISTING ELECTRICAL DEVICE(S) TO REMAIN.



DEMOLITION PLAN - POWER
SCALE: 1/8" = 1'-0"

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ROYAL
ENGINEERING

JOB# 14118.00 DATE PLOTTED: 03/02/2025

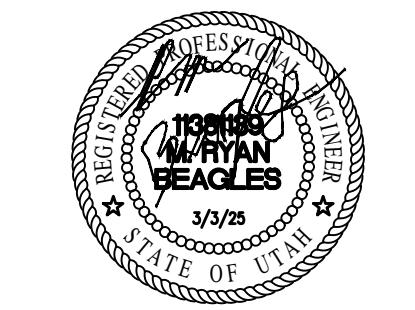
OREM

FAMILY CITY USA

OREM CITY
PUBLIC
SAFETY
BUILDING

FIRST FLOOR
INTERIOR REMODEL

95 E. Center Street
Orem, Utah 84057

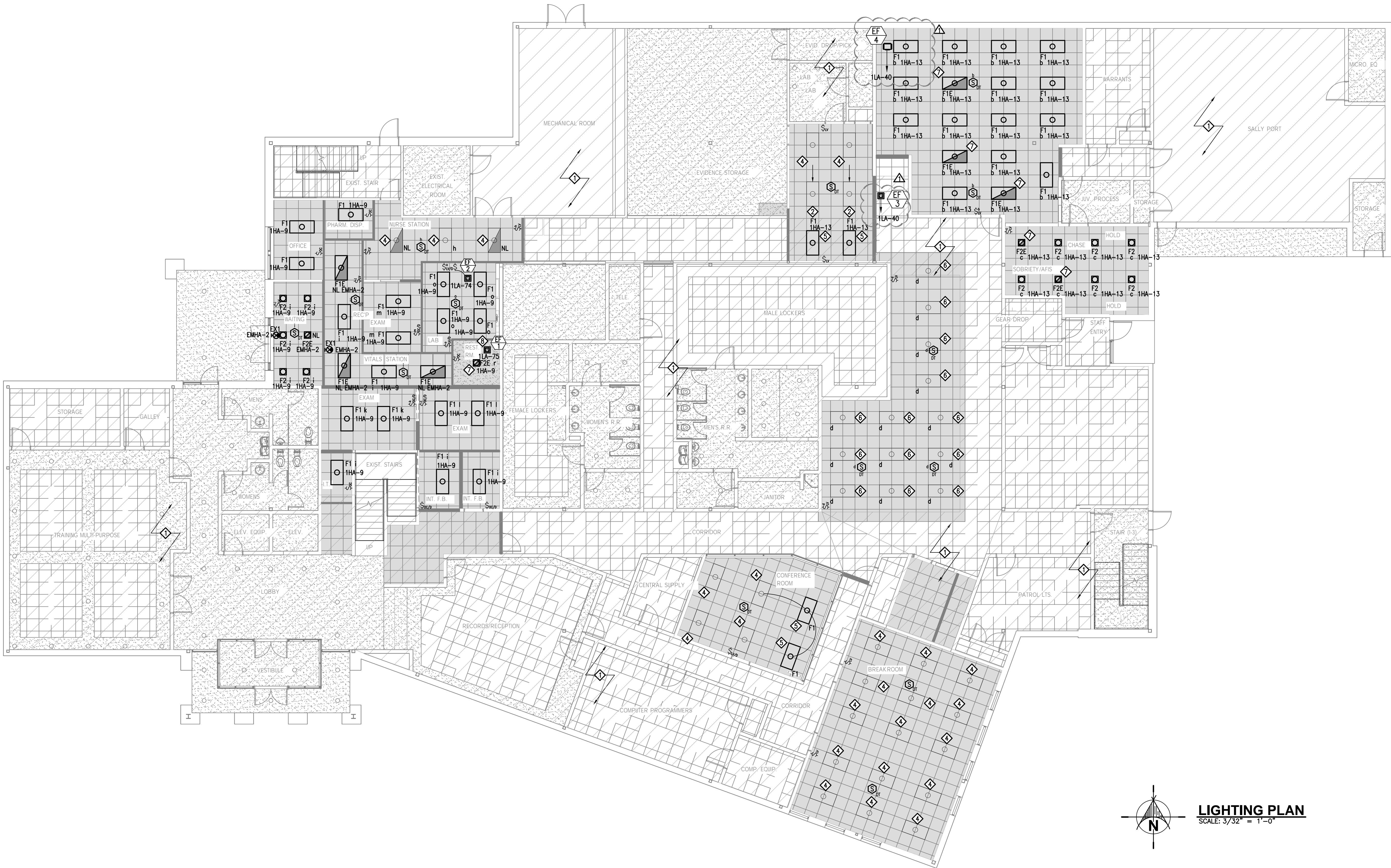


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| 1 | 02.28.25 | BID QUESTIONS |

| milestone | issue date |
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| PERMIT SET | latest revision date |
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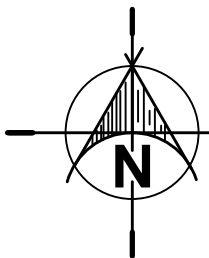
drawing title:
DEMOLITION PLAN - POWER

ED1.1



ELECTRICAL KEYED NOTES:

- ◇ HATCHED AREA OUTSIDE OF SCOPE.
- ◇ EXISTING LIGHT FIXTURES TO BE RELOCATED AS SHOWN. ALIGN WITH CEILING GRID AND RECRUIT WITH CORRIDOR LIGHTING USING #12 AWG CONDUCTORS AND GROUND.
- ◇ EXISTING DEVICE TO REMAIN. CIRCUIT AS SHOWN.
- ◇ EXISTING FIXTURE TO REMAIN. UPDATE SWITCHING AS SHOWN IN ROOM.
- ◇ REUSE EXISTING LIGHTING BRANCH CIRCUIT WITHIN THE SPACE. CONNECT LIGHT FIXTURE TO EXISTING LIGHTING CIRCUIT USING #12 CU AWG CONDUCTORS AND GROUND.
- ◇ REUSE EXISTING FIXTURE WITH NEW CEILING. REPAIR OR REPLACE AS REQUIRED. REUSE EXISTING LIGHTING BRANCH CIRCUIT.
- ◇ PROVIDE FIXTURE WITH GENERATOR TRANSFER DEVICE (GTD) TO SWITCH TO EMERGENCY GENERATOR POWER ON CIRCUIT EMHA-2 DURING EMERGENCY OPERATION.
- ◇ SEE EXHAUST FAN/LIGHTING INTERPOSING RELAY DETAIL ON SHEET E5.1.



LIGHTING PLAN
SCALE: 3/32" = 1'-0"



| revision information | | |
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| no. | date | description |
| 1 | 02.28.25 | BID QUESTIONS |







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| NOVEMBER 2024 | |
| milestone issue description | |
| PERMIT SET | |
| latest revision date | |
| | |
| latest revision description | |
| | |

| drawing title | |
|---------------|--|
| LIGHTING PLAN | |

| PANEL SCHEDULE "EMHA" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------|------|---|------|------------------------|----|------|-----|---------------|---|-------|--------|-------|-------|---|--------|------|--------|-----------------------|-------|-----------|------|------|-----------------|--|--|-----------|--|--|--------|--|--|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|
| VOLTAGE: 480 Y/277 VOLTS | | | | | BUS RATING (AMPS): 225 | | | | | | | | | | REMARKS: EXISTING GE PANELBOARD. ELECTRICAL CONTRACTOR TO VERIFY ALL LOADS. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ENGINEER. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MOUNTING: SURFACE | | | | | PHASE: 3 | | | | | MAIN LUGS ONLY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ENCLOSURE: NEMA 1 | | | | | WIRE: 4 | | | | | MINIMUM EQUIPMENT RATING: 25,000 AMPS (RMS-SYM) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CIRCUIT BREAKER | | | | | | | | | | | | | | | | | | FEEDER | | | CKT. LOAD | | | LOAD/PHASE (VA) | | | CKT. LOAD | | | FEEDER | | | CIRCUIT BREAKER | | | | | | | | | | | | |
| No. | AMPS | POLE | - | MOD. | CIRCUIT NAME | C | WIRE | GRD | DEMAND FACTOR | WATTS | ØA | ØB | ØC | WATTS | DEMAND FACTOR | GRD | WIRE | C | CIRCUIT NAME | MOD. | - | POLE | AMPS | No. | | | | | | | | | | | | | | | | | | | | | |
| 1 | 20 | 1 | - | EX | EXISTING | ¾" | #12 | #12 | 1.00 | 3,000 | 6,931 | | | 3,931 | 1.25 | #12 | #12 | ¾" | 1ST FLOOR EM LIGHTING | EX | - | 1 | 20 | 2 | | | | | | | | | | | | | | | | | | | | | |
| 3 | 20 | 1 | - | EX | EXISTING | ¾" | #12 | #12 | 1.00 | 2,500 | | 5,500 | | 3,000 | 1.00 | #12 | #12 | ¾" | EXISTING | EX | - | 1 | 20 | 4 | | | | | | | | | | | | | | | | | | | | | |
| 5 | 20 | 1 | - | EX | EXISTING | ¾" | #12 | #12 | 1.00 | 2,000 | | | 5,000 | 3,000 | 1.00 | #12 | #12 | ¾" | EXISTING | EX | - | 1 | 20 | 6 | | | | | | | | | | | | | | | | | | | | | |
| 7 | 20 | 1 | - | - | EXISTING | ¾" | #12 | #12 | 1.00 | 2,500 | 5,500 | | | 3,000 | 1.00 | #12 | #12 | ¾" | EXISTING | EX | - | 1 | 20 | 8 | | | | | | | | | | | | | | | | | | | | | |
| 9 | 20 | 1 | - | EX | EXISTING | ¾" | #12 | #12 | 1.00 | 2,500 | | 4,500 | | 2,000 | 1.00 | #12 | #12 | ¾" | EXISTING | EX | - | 1 | 20 | 10 | | | | | | | | | | | | | | | | | | | | | |
| 11 | 20 | 1 | - | EX | EXISTING | ¾" | #12 | #12 | 1.00 | 2,500 | | | 4,500 | 2,000 | 1.00 | #12 | #12 | ¾" | EXISTING | EX | - | 1 | 20 | 12 | | | | | | | | | | | | | | | | | | | | | |
| 13 | 20 | 1 | - | EX | SPARE | | | | 1.00 | | 0 | | | | 1.00 | | | | SPARE | EX | - | 1 | 20 | 14 | | | | | | | | | | | | | | | | | | | | | |
| 15 | 20 | 1 | - | EX | SPARE | | | | 1.00 | | | 0 | | | 1.00 | | | | SPARE | EX | - | 1 | 20 | 16 | | | | | | | | | | | | | | | | | | | | | |
| 17 | 20 | 1 | - | EX | SPARE | | | | 1.00 | | | | 0 | | 1.00 | | | | SPARE | EX | - | 1 | 20 | 18 | | | | | | | | | | | | | | | | | | | | | |
| 19 | 20 | 1 | - | EX | SPARE | | | | 1.00 | | 0 | | | | 1.00 | | | | SPARE | EX | - | 1 | 20 | 20 | | | | | | | | | | | | | | | | | | | | | |
| 21 | 20 | 1 | - | EX | SPARE | | | | 1.00 | | | | 0 | | 1.00 | | | | SPARE | EX | - | 1 | 20 | 22 | | | | | | | | | | | | | | | | | | | | | |
| 23 | 20 | 1 | - | EX | SPARE | | | | 1.00 | | | | 0 | | 1.00 | | | | SPARE | EX | - | 1 | 20 | 24 | | | | | | | | | | | | | | | | | | | | | |
| 25 | 20 | 1 | - | EX | SPARE | | | | 1.00 | | 0 | | | | 1.00 | | | | SPARE | EX | - | 1 | 20 | 26 | | | | | | | | | | | | | | | | | | | | | |
| 27 | 20 | 1 | - | EX | SPARE | | | | 1.00 | | | 0 | | | 1.00 | | | | SPARE | EX | - | 1 | 20 | 28 | | | | | | | | | | | | | | | | | | | | | |
| 29 | 20 | 1 | - | EX | SPARE | | | | 1.00 | | | | 0 | | 1.00 | | | | SPARE | EX | - | 1 | 20 | 30 | | | | | | | | | | | | | | | | | | | | | |
| 31 | 20 | 1 | - | EX | SPARE | | | | 1.00 | | 0 | | | | 1.00 | | | | EXISTING | EX | - | 3 | 50 | 32 | | | | | | | | | | | | | | | | | | | | | |
| 33 | 20 | 1 | - | EX | SPARE | | | | 1.00 | | | 0 | | | 1.00 | | | | - | - | - | - | - | 34 | | | | | | | | | | | | | | | | | | | | | |
| 35 | 20 | 1 | - | EX | SPARE | | | | 1.00 | | | | 0 | | 1.00 | | | | - | - | - | - | - | 36 | | | | | | | | | | | | | | | | | | | | | |
| 37 | 20 | 1 | - | EX | SPARE | | | | 1.00 | | 0 | | | | 1.00 | | | | EXISTING | EX | - | 3 | 50 | 38 | | | | | | | | | | | | | | | | | | | | | |
| 39 | 20 | 1 | - | EX | SPARE | | | | 1.00 | | | | 0 | | 1.00 | | | | - | - | - | - | - | 40 | | | | | | | | | | | | | | | | | | | | | |
| 41 | 20 | 1 | - | EX | SPARE | | | | 1.00 | | | | 0 | | 1.00 | | | | - | - | - | - | - | 42 | | | | | | | | | | | | | | | | | | | | | |
| NOTES: | | | | | | | | | | | | ØA | | | | ØB | | | | ØC | | | | TOTALS | | | | | | | | | | | | | | | | | | | | | |
| 1. ALL INSULATION ON CONDUCTORS TO BE THHN UNLESS NOTED OTHERWISE. INSULATION ON ALL UNDERGROUND EXTERIOR CONDUCTORS SHALL BE THW. | | | | | | | | | | | | 12,431 | | | | 10,000 | | | | 9,500 | | | | 31,931 | | | | | | | | | | | | | | | | | | | | | |
| 2. LOAD DEMANDS CALCULATED AS PER SECTIONS 210 & 220 OF THE NATIONAL ELECTRICAL CODE. | | | | | | | | | | | | | | | | | | | | | | | | 38 | | | | | | | | | | | | | | | | | | | | | |
| 3. PANEL COVER SHALL BE FIELD MARKED FOR FLASH PROTECTION WITH A PERMANENT LABEL AS REQUIRED BY THE NATIONAL ELECTRICAL CODE SECTION 110. LABEL SHALL READ: "DANGER: POTENTIAL ARC FLASH HAZARD" | | | | | | | | | | | | 983 | | | | 0 | | | | 0 | | | | 983 | | | | | | | | | | | | | | | | | | | | | |
| 4. PANELBOARD SHALL BE FIELD MARKED WITH THE AVAILABLE FAULT CURRENT PER NEC 408.6. | | | | | | | | | | | | 13,414 | | | | 10,000 | | | | 9,500 | | | | 32,914 | | | | | | | | | | | | | | | | | | | | | |
| 5. FIRE ALARM SYSTEMS SHALL BE FIELD MARKED WITH THE AVAILABLE FAULT CURRENT PER NEC 408.6. | | | | | | | | | | | | 48 | | | | 36 | | | | 34 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. END-USE METERING CATEGORIES - TOTAL (HVAC) SYSTEM, (INLTG) INTERIOR LIGHTING, (EXTLG) EXTERIOR LIGHTING, (PLUG) LOADS, (PROCESS) LOAD, BUILDING OPERATIONS AND OTHER (MISCELLANEOUS) LOADS. | | | | | | | | | | | | | | | | | | | | | | | | 48 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 41% | | | | 30% | | | | 29% | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | PHASE BALANCE | | | | | | | | | | | | | | | | | | | | | |

| PANEL SCHEDULE "1HA" | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------|------|---|------------------------|------------------|------|------|---|---------------|-------|-----------|-------|-------|-----------------|---------------|---|-----------|------|----------|--------|---|------|-----------------|-----|--|--|
| VOLTAGE: 480 Y/277 VOLTS | | | | BUS RATING (AMPS): 225 | | | | | | | | | | | | REMARKS: EXISTING GE PANELBOARD. ELECTRICAL CONTRACTOR TO VERIFY ALL LOADS. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ENGINEER. | | | | | | | | | | |
| MOUNTING: SURFACE | | | | PHASE: 3 | | | | MAIN LUGS ONLY | | | | | | | | | | | | | | | | | | |
| ENCLOSURE: NEMA 1 | | | | WIRE: 4 | | | | MINIMUM EQUIPMENT RATING: 25,000 AMPS (RMS-SYM) | | | | | | | | | | | | | | | | | | |
| CIRCUIT BREAKER | | | | CIRCUIT NAME | | | | FEEDER | | | CKT. LOAD | | | LOAD/PHASE (VA) | | | CKT. LOAD | | | FEEDER | | | CIRCUIT BREAKER | | | |
| No. | AMPS | POLE | - | MOD. | | C | WIRE | GRD | DEMAND FACTOR | WATTS | ØA | ØB | ØC | WATTS | DEMAND FACTOR | GRD | WIRE | C | | MOD. | - | POLE | AMPS | No. | | |
| 1 | 20 | 1 | - | EX | EXISTING | 3/4" | #12 | #12 | 1.00 | 2,700 | 5,700 | | | 3,000 | 1.00 | #12 | #12 | 3/4" | EXISTING | EX | - | 1 | 20 | 2 | | |
| 3 | 20 | 1 | - | EX | EXISTING | 3/4" | #12 | #12 | 1.00 | 2,500 | | 5,500 | | 3,000 | 1.00 | #12 | #12 | 3/4" | EXISTING | EX | - | 1 | 20 | 4 | | |
| 5 | 20 | 1 | - | EX | EXISTING | 3/4" | #12 | #12 | 1.00 | 2,500 | | | 5,200 | 2,700 | 1.00 | #12 | #12 | 3/4" | EXISTING | EX | - | 1 | 20 | 6 | | |
| 7 | 20 | 1 | - | EX | EXISTING | 3/4" | #12 | #12 | 1.00 | 3,300 | 6,800 | | | 3,500 | 1.00 | #12 | #12 | 3/4" | EXISTING | EX | - | 1 | 20 | 8 | | |
| 9 | 20 | 1 | - | EX | MEDICAL AREA LTG | 3/4" | #12 | #12 | 1.25 | 3,945 | | 4,945 | | 1,000 | 1.00 | #12 | #12 | 3/4" | EXISTING | EX | - | 1 | 20 | 10 | | |
| 11 | 20 | 1 | - | EX | EXISTING | 3/4" | #12 | #12 | 1.00 | 2,500 | | | 2,500 | | 1.00 | | | | SPARE | EX | - | 1 | 20 | 12 | | |
| 13 | 20 | 1 | - | EX | FITNESS LTG | 3/4" | #12 | #12 | 1.25 | 2,296 | 3,296 | | | 1,000 | 1.00 | #12 | #12 | 3/4" | EXISTING | EX | - | 1 | 20 | 14 | | |
| 15 | 20 | 1 | - | EX | SPARE | | | | | 1.00 | | 0 | | | 1.00 | | | | SPARE | EX | - | 1 | 20 | 16 | | |
| 17 | 20 | 1 | - | EX | SPARE | | | | | 1.00 | | | 0 | | 1.00 | | | | SPARE | EX | - | 1 | 20 | 18 | | |
| 19 | 20 | 1 | - | EX | SPARE | | | | | 1.00 | 0 | | | | 1.00 | | | | SPARE | EX | - | 1 | 20 | 20 | | |
| 21 | 20 | 1 | - | EX | SPARE | | | | | 1.00 | | 0 | | | 1.00 | | | | SPARE | EX | - | 1 | 20 | 22 | | |
| 23 | 20 | 1 | - | EX | SPARE | | | | | 1.00 | | | 0 | | 1.00 | | | | SPARE | EX | - | 1 | 20 | 24 | | |
| 25 | 20 | 1 | - | EX | SPARE | | | | | 1.00 | 0 | | | | 1.00 | | | | SPARE | EX | - | 1 | 20 | 26 | | |
| 27 | 20 | 1 | - | EX | SPARE | | | | | 1.00 | | 0 | | | 1.00 | | | | SPARE | EX | - | 1 | 20 | 28 | | |
| 29 | 20 | 1 | - | EX | SPARE | | | | | 1.00 | | | 0 | | 1.00 | | | | SPARE | EX | - | 1 | 20 | 30 | | |
| 31 | 20 | 1 | - | EX | SPARE | | | | | 1.00 | 0 | | | | 1.00 | | | | SPARE | EX | - | 1 | 20 | 32 | | |
| 33 | 20 | 1 | - | EX | SPARE | | | | | 1.00 | | 0 | | | 1.00 | | | | SPARE | EX | - | 1 | 20 | 34 | | |
| 35 | 20 | 1 | - | EX | SPARE | | | | | 1.00 | | | 0 | | 1.00 | | | | SPARE | EX | - | 1 | 20 | 36 | | |
| 37 | 20 | 1 | - | EX | SPARE | | | | | 1.00 | 0 | | | | 1.00 | | | | SPARE | EX | - | 1 | 20 | 38 | | |
| 39 | 20 | 1 | - | EX | SPARE | | | | | 1.00 | | | 0 | | 1.00 | | | | SPARE | EX | - | 1 | 20 | 40 | | |
| 41 | 20 | 1 | - | EX | SPARE | | | | | 1.00 | | | 0 | | 1.00 | | | | SPARE | EX | - | 1 | 20 | 42 | | |
| NOTES: | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. ALL INSULATION ON CONDUCTORS TO BE THIN UNLESS NOTED OTHERWISE. INSULATION ON ALL UNDERGROUND EXTERIOR CONDUCTORS SHALL BE THIN. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. LOAD DEMANDS SHALL BE THIN. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. LOAD DEMANDS SHALL BE CALCULATED AS PER SECTIONS 210 & 220 OF THE NATIONAL ELECTRICAL CODE. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. PANEL COVER SHALL BE FIELD MARKED FOR FLASH PROTECTION WITH A PERMANENT LABEL AS REQUIRED BY THE NATIONAL ELECTRICAL CODE SECTION 110. LABEL SHALL READ: "DANGER: POTENTIAL ARC FLASH HAZARD" | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. FIRE ALARM SHALL BE FIELD MARKED WITH THE AVAILABLE FAULT CURRENT PER NEC 408.6. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. FIRE ALARM SYSTEMS SHALL HAVE BRANCH CIRCUITS IDENTIFIED BY RED LABELS STATING "FIRE ALARM CIRCUIT" AS REQUIRED BY THE NATIONAL ELECTRICAL CODE ARTICLE 760.418. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. END-USE METERING CATEGORIES: TOTAL (HVAC) SYSTEM, (INTLG) INTERIOR LIGHTING, (EXTLG) EXTERIOR LIGHTING, (PLUG) LOADS, (PROCESS) LOAD, BUILDING OPERATIONS AND OTHER (MISC)ILLANEOUS LOADS. | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | |
|--------|--------|-------|--------|--------------------------------|
| ØA | ØB | ØC | TOTALS | |
| 15,796 | 10,445 | 7,700 | 33,941 | CONNECTED LOAD (VA) |
| | | | 41 | CONNECTED LOAD (A) |
| 574 | 986 | 0 | 1,560 | DEMAND FACTOR ADJUSTMENTS (VA) |
| 16,370 | 11,431 | 7,700 | 35,501 | TOTAL LOAD (VA) |
| 59 | 41 | 28 | | TOTAL LOAD (A) |
| | | | 59 | MAXIMUM LOAD (A) |
| 46% | 32% | 22% | | PHASE BALANCE |

| EQUIPMENT SCHEDULE | | | | | | | | | | | |
|---|---------------------------|---------|-------|------------------|------|----------|--------|-------|-------|------------|--|
| SYMBOL | DESCRIPTION | SERVICE | | DISCONNECT | | STARTER | LOAD | | | MOCPI/BRKR | REMARKS |
| | | VOLTS | PHASE | SIZE | FUSE | | HP/TON | VA | AMPS | | |
|  1 | FAN COIL INDOOR UNIT | 208 V | 1Ø | 2 POLE SWITCH | - | INTEGRAL | - | 208 | 1.0A | 15A | POWERED FROM OUTDOOR UNIT |
|  1 | HEAT PUMP OUTDOOR UNIT | 208 V | 1Ø | 30A NEMA 3R | - | INTEGRAL | 1 TON | 2,288 | 11.0A | 28A | |
|  1 | EXHAUST FAN | 120 V | 1Ø | INTEGRAL PLUG | - | - | - | 14 | 0.1A | 20A | EF CONTROLLED WITH LIGHTING |
|  2 | EXHAUST FAN | 120 V | 1Ø | INTEGRAL PLUG | - | - | - | 17 | 0.1A | 20A | EF CONTROLLED WITH SEPARATE CONTROL SWITCH |
|  3 | EXHAUST FAN | 120 V | 1Ø | INTEGRAL PLUG | - | - | - | 41 | 0.3A | 20A | EF CONTROLLED WITH LIGHTING. SEE LIGHT/FAN INTERPOSING RELAY WIRING DIAGRAM. |
|  4 | EXHAUST FAN | 120 V | 1Ø | INTEGRAL PLUG | - | - | - | 41 | 0.3A | 20A | EF CONTROLLED WITH LIGHTING. SEE LIGHT/FAN INTERPOSING RELAY WIRING DIAGRAM. |
| NOTES: 1. VERIFY ALL EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS (i.e. VOLTAGE, PHASE, FLA, ETC.) WITH MECHANICAL DRAWINGS/SUBMITTALS BEFORE FOR ACTUAL EQUIPMENT INSTALLED. 2. ALL FUSES SHALL BE DUAL ELEMENT TIME DELAY. FINAL BREAKER/FUSE & DISCONNECT SIZE SHALL BE DETERMINED BY MANUFACTURER'S RECOMMENDATION FOR ACTUAL EQUIPMENT INSTALLED. 3. MAXIMUM VALUES INDICATED. 4. DISCONNECTING MEANS NOT REQUIRED FOR EQUIPMENT WITHIN SIGHT (AS DEFINED IN NEC) OF BRANCH PANEL SERVING EQUIPMENT. SEE NEC 422.31 (B). 5. DISCONNECTING MEANS NOT REQUIRED FOR APPLIANCES NOT OVER 300 VA. SEE NEC 422.31 (A). | | | | | | | | | | | |

| LIGHT FIXTURE SCHEDULE | | | | | | | | | | | |
|------------------------|---|---|---|-------|-------|-----------------|--|--|--|--|--|
| FIXTURE NUMBER | FIXTURE MANUFACTURER | FIXTURE CATALOG # | FIXTURE | | | | DESCRIPTION | REMARKS | | | |
| | | | TYPE | VOLTS | WATTS | MOUNTING | | | | | |
| F1 | OWNER SELECTED CONTRACTOR PROVIDED | OWNER SELECTED CONTRACTOR PROVIDED | LED | 277 | 112 | LAY-IN GRID | 2X4 LED LAY-IN PARABOLIC LOUVER | FIXTURE TO MATCH EXISTING PARABOLIC LOUVER BUT WITH LED DRIVER INSTEAD OF FLUORESCENT BALLAST. \$200 CONTRACTOR ALLOWANCE. | | | |
| F1E | OWNER SELECTED CONTRACTOR PROVIDED | OWNER SELECTED CONTRACTOR PROVIDED | LED | 277 | 112 | LAY-IN GRID | 2X4 LED LAY-IN PARABILIC LOUVER | FIXTURE TO MATCH EXISTING PARABOLIC LOUVERS BUT WITH LED DRIVER INSTEAD OF FLUORESCENT BALLAST. \$200 CONTRACTOR ALLOWANCE. PROVIDE WITH GENERATOR TRANSFER DEVICE. | | | |
| F2 | HALO COMMERCIAL LITHONIA LIGHTOLIER ATLANTIC PRESCOLITE MAXILUME | PD615ED010/PDM6A835/61VC LDN6 35/15 LOGAR LSS MVOLT EZ1 P6RD15N210UVB W/P6RD835VB W/P6RDCC LED6-DLM15-35K-U-6LED10-SS LF6SL-6LFSL15L35K HH6-LED-1500L-DIM10-MVOLT-MD-35K-90/HH6-6501-CL-WH | LED 3500 KELVIN 1500 LUMENS 80 CRI | 277 | 21 | RECESSED | LED DOWNLIGHT WITH ALZAK TRIM | | | | |
| F2E | HALO COMMERCIAL LITHONIA LIGHTOLIER ATLANTIC PRESCOLITE MAXILUME | PD615ED010/PDM6A835/61VC LDN6 35/15 LOGAR LSS MVOLT EZ1 P6RD15N210UVB W/P6RD835VB W/P6RDCC LED6-DLM15-35K-U-6LED10-SS LF6SL-6LFSL15L35K HH6-LED-1500L-DIM10-MVOLT-MD-35K-90/HH6-6501-CL-WH | LED 3500 KELVIN 1500 LUMENS 80 CRI | 277 | 21 | RECESSED | LED DOWNLIGHT WITH ALZAK TRIM | PROVIDE WITH GENERATOR TRANSFER DEVICE. | | | |
| F5 | METALUX LITHONIA DAY-BRITE LSI VISIONEERING ORACLE | 2BCLED-LD4-28HL-UNV-L835-CD1-U WL2-22L-EZ1-LP835 CSW24-28-35-UNV-DZT-ZO W442-LED-SS-WWUJE LCAD24-LED-8-35K-020L-UNV 2-OW1B-LED-2000L-DIM10-MVOLT-35K-80 | LED 3500 KELVIN 2000 LUMENS 80 CRI | 277 | 31 | SURFACE WALL | 24" WALL MTD. LED | | | | |
| EX1 | SURELITE LITHONIA CHLORIDE LSI DUAL-LITE MAXILUME | APX7G LOM-S-W-S-G-EL-N ER55L3WG EX-G-U-WB-WH EVEUGWE ELX-603-G-W | INCLUDED | 277 | 1.5 | UNIVERSAL | UNIVERSAL MOUNT WITH EXTRA FACE PLATE FOR FIELD CONVERSION 1-2 FACE | NICKEL/CADMIUM BATTERY SINGLE FACE EXIT | | | |

| PANEL SCHEDULE "EMLA" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|------|------|-------------------------|------|------------------------|----|-----|------|------|---|-------|-----------|-------|-----------------|----------|---------------|-----------|------|--------|--------------|----|------|-------------------------|------|------|-----|-----------------|--|--|--|--|
| VOLTAGE: 208 Y/120 VOLTS | | | | | BUS RATING (AMPS): 100 | | | | | | | | | | REMARKS: | | | | | | | | | | | | | | | | |
| MOUNTING: SURFACE | | | | | PHASE: 3 | | | | | MAIN LUGS ONLY | | | | | | | | | | | | | | | | | | | | | |
| ENCLOSURE: NEMA 1 | | | | | WIRE: 4 | | | | | MINIMUM EQUIPMENT RATING: SEE FAULT CURRENT TABLE | | | | | | | | | | | | | | | | | | | | | |
| CIRCUIT BREAKER | | | | | | | | | | FEEDER | | CKT. LOAD | | LOAD/PHASE (VA) | | | CKT. LOAD | | FEEDER | | | | | | | | CIRCUIT BREAKER | | | | |
| No. | AMPS | POLE | ENERGY USE ¹ | MOD. | CIRCUIT NAME | | C | WIRE | GRD | DEMAND FACTOR | WATTS | ØA | ØB | ØC | WATTS | DEMAND FACTOR | GRD | WIRE | C | CIRCUIT NAME | | MOD. | ENERGY USE ¹ | POLE | AMPS | No. | | | | | |
| 1 | 20 | 1 | - | EX | EXISTING | ¾" | #12 | #12 | 1.00 | 1,500 | 2,700 | | | | 1,200 | 1.00 | #12 | #12 | ¾" | EXISTING | EX | - | 1 | 20 | 2 | | | | | | |
| 3 | 20 | 1 | - | EX | EXISTING | ¾" | #12 | #12 | 1.00 | 1,500 | | | 2,000 | | 500 | 1.00 | #12 | #12 | ¾" | EXISTING | EX | - | 1 | 20 | 4 | | | | | | |
| 5 | 20 | 1 | - | EX | SPARE | | | | 1.00 | | | | | 500 | 500 | 1.00 | #12 | #12 | ¾" | EXISTING | EX | - | 1 | 20 | 6 | | | | | | |
| 7 | 20 | 1 | - | EX | REFRIGERATOR | ¾" | #12 | #12 | 1.00 | 1,200 | 1,200 | | | | 1,000 | | | | | SPARE | EX | - | 1 | 20 | 8 | | | | | | |
| 9 | 20 | 1 | - | EX | REFRIGERATOR | ¾" | #12 | #12 | 1.00 | 1,200 | | | 1,200 | | | 1.00 | | | | SPARE | EX | - | 1 | 20 | 10 | | | | | | |
| 11 | 20 | 1 | - | EX | REFRIGERATOR | ¾" | #12 | #12 | 1.00 | 1,200 | | | | 1,200 | 1,000 | | | | | SPARE | EX | - | 1 | 20 | 12 | | | | | | |
| 13 | 20 | 1 | - | EX | SPARE | | | | 1.00 | | 0 | | | | 1,000 | | | | | SPARE | EX | - | 1 | 20 | 14 | | | | | | |
| 15 | 20 | 1 | - | EX | SPARE | | | | 1.00 | | | | 0 | | 1,000 | | | | | SPARE | EX | - | 1 | 20 | 16 | | | | | | |
| 17 | 20 | 1 | - | EX | SPARE | | | | 1.00 | | | | | 0 | 1,000 | | | | | SPARE | EX | - | 1 | 20 | 18 | | | | | | |
| 19 | 20 | 1 | - | EX | SPARE | | | | 1.00 | | 0 | | | | 1,000 | | | | | SPARE | EX | - | 1 | 20 | 20 | | | | | | |
| 21 | 20 | 1 | - | EX | SPARE | | | | 1.00 | | | | 0 | | 1,000 | | | | | SPARE | EX | - | 1 | 20 | 22 | | | | | | |
| 23 | 20 | 1 | - | EX | SPARE | | | | 1.00 | | | | | 0 | 1,000 | | | | | SPARE | EX | - | 1 | 20 | 24 | | | | | | |
| 25 | 20 | 1 | - | EX | SPARE | | | | 1.00 | | 0 | | | | 1,000 | | | | | SPARE | EX | - | 1 | 20 | 26 | | | | | | |
| 27 | 20 | 1 | - | EX | SPARE | | | | 1.00 | | | | 0 | | 1,000 | | | | | SPARE | EX | - | 1 | 20 | 28 | | | | | | |
| 29 | 20 | 1 | - | EX | SPARE | | | | 1.00 | | | | | 0 | 1,000 | | | | | SPARE | EX | - | 1 | 20 | 30 | | | | | | |
| 31 | 20 | 1 | - | EX | SPARE | | | | 1.00 | | 0 | | | | 1,000 | | | | | SPARE | EX | - | 1 | 20 | 32 | | | | | | |
| 33 | 20 | 1 | - | EX | SPARE | | | | 1.00 | | | | 0 | | 1,000 | | | | | SPARE | EX | - | 1 | 20 | 34 | | | | | | |
| 35 | 20 | 1 | - | EX | SPARE | | | | 1.00 | | | | | 0 | 1,000 | | | | | SPARE | EX | - | 1 | 20 | 36 | | | | | | |
| 37 | 20 | 1 | - | EX | SPARE | | | | 1.00 | | 0 | | | | 1,000 | | | | | SPARE | EX | - | 1 | 20 | 38 | | | | | | |
| 39 | 20 | 1 | - | EX | SPARE | | | | 1.00 | | | | 0 | | 1,000 | | | | | SPARE | EX | - | 1 | 20 | 40 | | | | | | |
| 41 | 20 | 1 | - | EX | SPARE | | | | 1.00 | | | | | 0 | 1,000 | | | | | SPARE | EX | - | 1 | 20 | 42 | | | | | | |

NOTES:

1. ALL INSULATION ON CONDUCTORS TO BE THHN UNLESS NOTED OTHERWISE. INSULATION ON ALL UNDERGROUND EXTERIOR CONDUCTORS SHALL BE THHW.

2. LOAD DEMANDS CALCULATED AS PER SECTIONS 210 & 220 OF THE NATIONAL ELECTRICAL CODE.

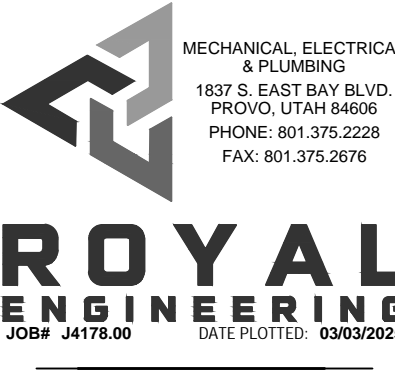
3. PANEL COVER SHALL BE FIELD MARKED FOR FLASH PROTECTION WITH A PERMANENT LABEL AS REQUIRED BY THE NATIONAL ELECTRICAL CODE SECTION 110. LABEL SHALL READ: "DANGER: POTENTIAL ARC FLASH HAZARD"

4. PANELBOARD SHALL BE FIELD MARKED WITH THE AVAILABLE FAULT CURRENT PER NEC 408.6.

5. FIRE ALARM SYSTEMS SHALL HAVE BRANCH CIRCUITS IDENTIFIED BY RED LABELS STATING "FIRE ALARM CIRCUIT" AS REQUIRED BY THE NATIONAL ELECTRICAL CODE ARTICLE 760.41B

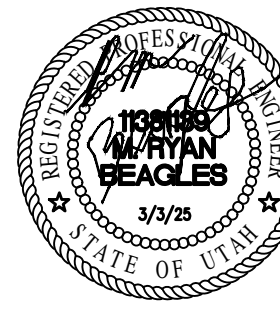
6. END-USE METERING CATEGORIES - TOTAL (HVAC) SYSTEM, (INTLG) INTERIOR LIGHTING, (EXLTG) EXTERIOR LIGHTING, (PLUG) LOADS, (PROCESS) LOAD, BUILDING OPERATIONS AND OTHER (MISC)ELLANEUOUS LOADS.

| ØA | ØB | ØC | TOTALS | |
|-------|-------|-------|--------|--------------------------------|
| 3,900 | 3,200 | 1,700 | 8,800 | CONNECTED LOAD (VA) |
| | | | 24 | CONNECTED LOAD (A) |
| 0 | 0 | 0 | 0 | DEMAND FACTOR ADJUSTMENTS (VA) |
| 3,900 | 3,200 | 1,700 | 8,800 | TOTAL LOAD (VA) |
| 32 | 27 | 14 | | TOTAL LOAD (A) |
| | | | 32 | MAXIMUM LOAD (A) |
| 44% | 36% | 19% | | PHASE BALANCE |



OREM CITY
PUBLIC
SAFETY
BUILDING
FIRST FLOOR
INTERIOR REMODEL

95 E. Center Street
Orem, Utah 84057



| | | |
|----------------------|----------|---------------|
| revision information | | |
| no. | date | description |
| 1 | 02.28.25 | BID QUESTIONS |

| | |
|-----------------------------|---------------|
| milestone issue date | NOVEMBER 2024 |
| milestone issue description | PERMIT SET |
| latest revision date | |
| latest revision description | |

drawing title
ELECTRICAL SCHEDULES

E6.2

SECTION 00900

REVISED SPECIAL CONDITIONS

2025 Public Safety Remodel Project

AMENDMENTS TO THE DETAILED SPECIFICATIONS

SC 00700 GENERAL CONDITIONS

19 PAYMENT TO CONTRACTOR

19.8 General WORK includes the bid items. Lump sum and unit bid items will be in effect without further measurement unless changes are ordered in writing by engineer. Neat line quantities have been provided in the bid schedule as basis for adjustment of payment in the event changes in the work are ordered by the engineer. These quantities given are determined from computations based on the plans and details and no guarantee is given that they will equal the quantities as constructed. If no changes are made in the work, no allowance will be made in the event actual quantities overrun or under run the estimated quantities. Payment for these items shall constitute full compensation for all labor, equipment, tools, and other items necessary and incidental to the completion of the work.

19.9 Measurement & Payment

GENERAL

1. PUBLIC SAFETY REMODEL

Includes all work for the interior Public Safety Remodel as shown in the Drawings (excluding clinic area). This includes all labor, materials and equipment to complete the demolition, framing, mechanical, electrical, flooring, and all other work for the Public Safety Remodel as required and as shown in the Drawings and as required by the Specifications. This item includes all costs associated with mobilization, demobilization, premiums on bonds and insurance and removal of all equipment and cleanup. The work includes following all requirements as specified in specification 01000 Evidence Security Requirements and 01100 Personnel requirements. Work shall be done in accordance with the Drawings, 2017 APWA Standard Specification and the City of Orem Supplemental Document to the 2017 APWA Standard Construction Specifications, and the Project Manual. Payment is on a lump sum basis.

Notes:

- This item specifically includes all work outside of the clinic floor plan (A2.3)
- This item does not include the flooring for the locker rooms.

| Amount | When Paid |
|---|---|
| Partial payment based on overall percentage of the project completed. | With each subsequent partial payment request. |

2. CLINIC REMODEL

Includes all work other for the Clinic Remodel as shown in the Drawings. This includes all labor, materials and equipment to complete the demolition, framing, mechanical, electrical, flooring, and all other work for the Clinic Remodel as required and as shown in the Drawings and as required by the Specifications. This item includes all costs associated with mobilization, demobilization, premiums on bonds and insurance and removal of all equipment and cleanup. The work includes all requirements as specified in specification 01100 Personnel requirements. Work shall be done in accordance with the Drawings, 2017 APWA Standard Specification and the City of Orem Supplemental Document to the 2017 APWA Standard Construction Specifications and the Project Manual. Payment is on a lump sum basis.

Notes:

- This item specifically includes all work as shown on the clinic floor plan (A2.3)
- This item does not include the flooring for the locker rooms.

| Amount | When Paid |
|---|---|
| Partial payment based on overall percentage of the project completed. | With each subsequent partial payment request. |

3. ADD ALTERNATE 1 – CERAMIC TILE FLOORING (LOCKER ROOMS)

This includes all labor, materials and equipment to complete the demolition and removal of existing carpet and all work required to install ceramic tile flooring. The ceramic tile flooring shall be 12"x12" Daltile Harmonist, tile and grout color shall be selected by the Owner. The Contractor shall submit samples of the tile flooring for approval prior to installation. The work includes all requirements as specified in specification 01100 Personnel requirements. Work shall be done in accordance

with the Drawings, 2017 APWA Standard Specification and the City of Orem Supplemental Document to the 2017 APWA Standard Construction Specifications, and the Project Manual. Payment is on a lump sum basis.

Notes:

| Amount | When Paid |
|------------------------------|------------------------------------|
| Percentage of work complete. | With each partial payment request. |

4. ADD ALTERNATE 2 – EPOXY COATING FLOOR (LOCKER ROOMS)

This includes all labor, materials and equipment to complete the demolition and removal of existing carpet and all work required to install an epoxy coated flooring. The epoxy coating shall include a first coat of Alta 4500 Epoxy with flake broadcast, a second coat of Alta 3500 premium epoxy grout coat, and a third coat of Alta Polyaspartic topcoat or approved equals for the Public Safety Remodel as required and as shown in the Drawings and as required by the Specifications. The Contractor shall provide a mock up for approval on final texture prior to installation. Submittals shall be submitted and the City of Orem shall approve all colors/ mockups prior to installation. The epoxy flooring shall be installed per the manufacturer's recommendations. The work includes all requirements as specified in specification 01100 Personnel requirements. Work shall be done in accordance with the Drawings, 2017 APWA Standard Specification and the City of Orem Supplemental Document to the 2017 APWA Standard Construction Specifications, and the Project Manual. Payment is on a lump sum basis.

Notes:

| Amount | When Paid |
|------------------------------|---|
| Percentage of work complete. | With each subsequent partial payment request. |