A. SEE PROJECT MANUAL SPECIFICATIONS AND REQUIREMENTS FOR DEMOLITION.
B. THE DOCUMENTS SHOW THE OVERALL EXTENT OF DEMOLITION REQUIRED. ALTHOUGH EACH COMPONENT MAY NOT BE SHOWN OR REFERENCED, REMOVE ITEMS CONSISTENT WITH THE NATURE OF DEMOLITION INDICATED.
C. ALL CONDITIONS ARE EXISTING; IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE PROJECT CONDITIONS. RECORD AND REPORT ALL DEVIATIONS TO THE ARCHITECT AS SOON AS POSSIBLE.
D. DO NOT DEMOLISH STRUCTURAL ELEMENTS WITHOUT APPROVAL FROM STRUCTURAL ENGINEER. PROVIDE TEMPORARY SHORING AND BRACING AS NEEDED TO MAINTAIN STRUCTURAL INTEGRITY.
E. REMOVE LOOSE OR CRACKED MATERIAL AT AREAS ADJACENT TO INDICATED DEMOLITION IF DAMAGED BY DEMOLITION OPERATIONS. PATCH AREAS WITH MATCHING MATERIAL AND WORKMANSHIP.
F. SLAB REMOVAL MAY BE REQUIRED IN ORDER TO INSTALL NEW PIPING BELOW EXISTING SLABS ON GRADE. REFER TO PLUMBING DRAWINGS FOR PIPE DEPTH AND SLOPE. EXACT LIMITS OF DEMOLITION SHALL BE DETERMINED BY CONTRACTOR FOR PIPE DEPTH AND WORKING ACCESS.
G. PERIMETER STRUCTURAL CONDITIONS ARE UNKNOWN. CONTRACTOR IS TO COORDINATE ALL PLUMBING EXIT POINTS WITH STRUCTURAL ENGINEER PRIOR TO PENETRATING GRADE BEAMS.
H. AT WALLS, FLOORS AND CEILING AREAS INDICATED FOR DEMOLITION, REMOVE ALL INTEGRAL DEVICES AND EQUIPMENT PRESENT UNLESS OTHERWISE INDICATED.
I. WHERE EXISTING PLUMBING OR ELECTRICAL PIPING TO BE ABANDONED, IS LOCATED IN THE EXISTING SLAB, CHIP AROUND THE PIPE OR FITTING A MINIMUM OF 2 INCHES, CAP THE PIPE A MINIMUM OF 4 INCHES BELOW THE FINAL FINISHED FLOOR ELEVATION AND FILL WITH CONCRETE. PREPARE CONCRETE TO RECEIVE NEW FINISHES.
J. ITEMS NOT NOTED FOR DEMOLITION ARE TO BE PROTECTED FROM DAMAGE AND PREPARED TO RECEIVE NEW WORK. SURFACES TO REMAIN THAT ARE DAMAGED DURING THE PERFORMANCE OF REQUIRED DEMOLITION SHALL BE PATCHED AND/OR PAINTED TO MATCH EXISTING TO REMAIN ADJACENT SURFACES UNLESS NOTED OTHERWISE.
K. RECYCLE MERCHANTABLE MATERIALS TO THE GREATEST EXTENT POSSIBLE, I.E. STEEL.
L. RESTORE THE FIRE PROTECTION RATING OF FIRE-PROTECTED CONSTRUCTION INDICATED TO REMAIN IF DAMAGED BY DEMOLITION OPERATIONS. FIRE-PROTECTED CONSTRUCTION INCLUDES STRUCTURAL MEMBERS, WALL, FLOOR, CEILING AND ROOF ASSEMBLIES COVERED WITH SPRAY FIREPROOFING OR DESIGNATED AS A RATED COMPONENT OR ASSEMBLY WITHIN THE DOCUMENTS.
CHAPTER 3 - USE AND OCCUPANCY CLASSIFICATION:

<table>
<thead>
<tr>
<th>NAME</th>
<th>TOTAL GSF</th>
<th>OCCUPANCY TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAIN LEVEL</td>
<td>4,066 SF</td>
<td>S</td>
</tr>
<tr>
<td>MAIN LEVEL</td>
<td>719 SF</td>
<td>B</td>
</tr>
<tr>
<td>UPPER LEVEL</td>
<td>889 SF</td>
<td>B</td>
</tr>
<tr>
<td>TOTAL GSF</td>
<td>5,674 SF</td>
<td></td>
</tr>
</tbody>
</table>

CHAPTER 4 - GENERAL BUILDING HEIGHTS AND AREAS:

<table>
<thead>
<tr>
<th>NAME</th>
<th>TOTAL GSF</th>
<th>OCCUPANCY TYPE</th>
<th>FLOOR AREA PER OCCUPANT</th>
<th>NUMBER OF OCCUPANTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAIN LEVEL</td>
<td>4,066 SF</td>
<td>S</td>
<td>500 GROSS</td>
<td>9</td>
</tr>
<tr>
<td>MAIN LEVEL</td>
<td>719 SF</td>
<td>B</td>
<td>150 GROSS</td>
<td>5</td>
</tr>
<tr>
<td>UPPER LEVEL</td>
<td>889 SF</td>
<td>B</td>
<td>150 GROSS</td>
<td>6</td>
</tr>
<tr>
<td>TOTAL</td>
<td>5,674 SF</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CHAPTER 6 - TYPES OF CONSTRUCTION:

FIRE RESISTANCE FOR BUILDING ELEMENTS:

<table>
<thead>
<tr>
<th>STRUCTURAL</th>
<th>EXTERIOR WALLS</th>
<th>EXTERIOR WALLS</th>
<th>INTERIOR WALLS</th>
<th>INTERIOR WALLS</th>
<th>ROOF</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRAME</td>
<td>BEARING</td>
<td>NON-BEARING</td>
<td>BEARING</td>
<td>NON-BEARING</td>
<td>ROOF</td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
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<td>0</td>
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</table>

FIRE RESISTANCE FOR EXTERIOR WALLS BASED ON SEPARATION:

<table>
<thead>
<tr>
<th>SEPARATION</th>
<th>GROUP ____</th>
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</thead>
<tbody>
<tr>
<td>X &lt; 5</td>
<td>C</td>
</tr>
<tr>
<td>5 &lt; X &lt; 10</td>
<td>C</td>
</tr>
<tr>
<td>X &lt; 30</td>
<td>C</td>
</tr>
<tr>
<td>X &gt; 30</td>
<td>N/A</td>
</tr>
</tbody>
</table>

CHAPTER 7 - FIRE AND SMOKE PROTECTION FEATURES:

FLOOR AND ROOF ASSEMBLIES (SECTION 711)

<table>
<thead>
<tr>
<th>OCCUPANT LOAD</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
</tr>
</tbody>
</table>

VERTICAL OPENINGS (SECTION 712)

| NO |

SHAFT ENCLOSURES (SECTION 713)

| NO |

FIRE RESISTANT JOINT SYSTEMS (SECTION 715)

| N/A |

OPENING PROTECTIVES (SECTION 716)

| N/A |

DUCTS AND AIR TRANSFER OPENINGS (SECTION 717)

| N/A |

CONCEALED SPACES (SECTION 718)

| N/A |

CHAPTER 9 - FIRE PROTECTION AND LIFE SAFETY SYSTEMS:

FIRE PUMP AND RISER ROOM (SECTION 902)

| NO |

AUTOMATIC SPRINKLER SYSTEMS (SECTION 903)

| NO |

STANDPIPE (SECTION 905)

| NO |

PORTABLE FIRE EXTINGUISHERS (SECTION 906)

| YES |

FIRE ALARMS (SECTION 907)

| NO |

FIRE DETECTION SYSTEMS (SECTION 907)

| NO |

CHAPTER 10 - MEANS OF EGRESS:

<table>
<thead>
<tr>
<th>OCCUPANT LOAD</th>
<th>TOTAL GSF</th>
<th>OCCUPANCY TYPE</th>
<th>FLOOR AREA FOR OCCUPANTS</th>
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</tbody>
</table>

EGRESS WIDTH PER OCCUPANT:

<table>
<thead>
<tr>
<th>STAIRWAYS</th>
<th>OTHER EGRESS COMPONENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>[ 0.3 x 6 = 1.8&quot; ]</td>
<td>[ 0.2 x 14 = 7&quot; ]</td>
</tr>
<tr>
<td>48&quot; PROVIDED</td>
<td></td>
</tr>
</tbody>
</table>

NUMBER OF EXITS AND EXIT ACCESS DOORWAYS:

REQ'D 2 EXITS

MAXIMUM COMMON PATH OF EGRESS TRAVEL:

100' (TABLE 1006.2.1)

EGRESS ILLUMINATION:

YES (SECTION 1008)

ACCESSIBLE EGRESS:

1 PER MEANS OF EGRESS (SECTION 1009.1)

HARDWARE:

NO MANUALLY OPERATED FLUSH OR SURFACE MOUNTED BOLTS ARE PERMITTED ON EXIT DOORS AND HARDWARE MUST NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST (SECTION 1010.1.9.1)

STAIRWAYS:

MIN STAIRWAY WIDTH = 44" (SECTION 1011)

EXIT ACCESS TRAVEL DISTANCE:

200' (SECTION 1017.2)

CORRIDORS:

MIN CORRIDOR WIDTH - 36" (SEE SEC. 1005.1) (SECTION 1020)

DEAD ENDS < 20' = REQUIRED EXIT ACCESS TRAVEL DISTANCE = 68' - 2"
SHEET NOTES

1. FOR ADA CLEARANCE AND MOUNTING DETAILS REFER TO SHEET A4.9

KEYNOTES:
1. GYP. BD.
2. TILE
3. BASE AS SCHEDULED
4. TOILET
5. ADA GRAB BARS
6. TOILET PAPER DISPENSER
7. ADA SINK
8. MIRROR

ADJUSTABLE PLAM SHELF
PLAM DOOR

DRAWER
ADJUSTABLE PLAM SHELF
PLAM DOOR

SCALE: 3/8" = 1'
SHEET NO: A4.1
DATE: 6/17/22

PROJECT NO: CMU HANGAR
SHEET NAME: 2241

2828 WALKER FIELD HANGAR 782, GRAND JUNCTION, CO 81506
203 W. CRETE CIR. BLDG 201
GRAND JUNCTION, CO 81505
T: 970.712.5045

REVISION: CMU HANGAR

CONSTRUCTION DOCUMENTS
INTERIOR ELEVATIONS
GENERAL REQUIREMENTS

Barricade and/or shelter the work as to protect it from damage. Arrange all barricades so as to provide a reasonable visual cue to persons using streets and sidewalks surrounding the site where work is being performed. Ground water piping, storm drain inlets, and other underground service lines shall not be damaged by the Contractor. It shall be the responsibility of the Contractor to notify all service providers of the work to be performed so that underground service lines may be protected. The Contractor shall be responsible for the loss of any underground services left in the ground.

Plastic cover shall be used by the Contractor to protect work surfaces from damage. Electrical equipment and materials shall be protected from weather and damage by adequate sheltering. Water for construction use shall be in temporary toilet facilities.

Conform to the Contract Drawings and Specifications. With the exception of the first floor, work shall not be performed on the building until application for the first floor permit has been made. Notice of application shall be given to the Owner, Architect, and Engineer as soon as possible.

DOORS AND WINDOWS

Permanent interior doors shall be installed after the work is complete in the affected area. Exterior doors shall be installed after the work is complete and the building is occupied.

Settle any controversy or claim arising due to a labor conflict caused by the wording of assignment or these specifications in accordance with the Georgia Labor Relations Act and the Georgia Arbitration Code.

Specify the following: 600V and below: switchboards, panel boards, safety switches, fuses, wire ways.

5.  TILE:

a.  Composition tile, glass tile, glass mosaic, and other decorative tile material used as floor and wall tiles.

b.  Ceramic tile, glass tile, glass mosaics, and other decorative materials used as floor and wall tile.

c.  All concrete and other masonry tile, brick, and other materials that are used as floor and wall materials.

5.  FRP:

a.  Predominantly fiberglass-reinforced polymer products that are used in construction applications.

b.  Predominantly fiberglass-reinforced polymer products that are used in construction applications.

6.  CEILING:

a.  Fire-rated, sound-rated, and 100% sound-resistant wall coverings.

b.  Fire-rated, sound-rated, and 100% sound-resistant wall coverings.

c.  All other wall coverings.

7.  SPECIFICATIONS:


8.  OTHER SPECIFICATIONS:


9.  MASONRY:


10.  FRP:

a.  Predominantly fiberglass-reinforced polymer products that are used in construction applications.

b.  Predominantly fiberglass-reinforced polymer products that are used in construction applications.

11.  OTHER SPECIFICATIONS:


12.  OTHER SPECIFICATIONS:


13.  OTHER SPECIFICATIONS:


SPECIFICATIONS

1/4" = 1'

1. CONTENTS

1.1. Scope

1.1.1. This document contains the standard specification for pipe, steel, black and hot, that is subject to the following:

a. New York City Reference Standard
b. Photoluminescent Exit Path Markings

1.2. General

1.2.1. This specification shall be used in conjunction with the Project Plans and Specifications. It shall be used as a guide to the construction of the project. The contractor shall consult with the architect and engineer before commencing work.

1.3. References

1.3.1. The following standards are referenced in this specification:


1.4. Definitions

1.4.1. Terms defined herein shall be used in the following manner:

- Form Finish: Smooth or rough finish used for concrete forms
- Form Release Agent: A substance used to release concrete from forms
- Synthetic Fibers: Fiber materials used in concrete

2. PRODUCTS

2.1. Materials

2.1.1. The materials used in the construction of this project shall conform to the requirements of the referenced standards and comply with the provisions of this specification. The contractor shall furnish materials in accordance with the Project Plans and Specifications.

2.1.2. The following materials are required for the project:

- Steel: ASTM A653/A653M
- Welded Deformed Steel Wire Fabric: ASTM A497
- Concrete: ASTM C109/C109M

2.2. Sampling and Testing

2.2.1. The contractor shall supply samples of all materials as required by the Project Plans and Specifications. These samples shall be tested by a qualified testing laboratory.

3. CONSTRUCTION

3.1. Construction Methods

3.1.1. The contractor shall construct the project in accordance with the Project Plans and Specifications. The work shall be performed in compliance with all applicable codes and standards.

3.2. Jointing

3.2.1. Joints shall be constructed in accordance with the Project Plans and Specifications. The joints shall be waterproof and seamless.

3.3. Protection

3.3.1. The project shall be protected from weather and moisture during construction. This protection shall be maintained until the project is complete and accepted by the owner.

4. QUALITY ASSURANCE

4.1. Quality Assurance Plan

4.1.1. The contractor shall develop and implement a Quality Assurance Plan for the project. The plan shall be approved by the owner and the engineer.

4.2. Quality Control

4.2.1. The contractor shall perform quality control tests as required by the Project Plans and Specifications.

5. SUBMITTALS

5.1. Submittal of Plans and Specifications

5.1.1. The contractor shall submit plans and specifications to the owner for review and approval. The plans and specifications shall be in accordance with the Project Plans and Specifications.

5.2. Material Submittals

5.2.1. The contractor shall submit material submittals to the owner for approval. The material submittals shall include materials that are to be used on the project.

5.3. Shop Drawings

5.3.1. The contractor shall submit shop drawings to the owner for review and approval. The shop drawings shall be in accordance with the Project Plans and Specifications.

6. DOCUMENTS

6.1. General

6.1.1. This specification and the Project Plans and Specifications shall be used as a guide to the construction of the project. The contractor shall consult with the architect and engineer before commencing work.

6.2. Project Plans and Specifications

6.2.1. The Project Plans and Specifications shall be in accordance with the Project Plans and Specifications.

6.3. Submittals

6.3.1. The contractor shall submit material submittals to the owner for approval. The material submittals shall include materials that are to be used on the project.

7. CONSTRUCTION DOCUMENTS

7.1. General

7.1.1. The construction documents for the project shall be in accordance with the Project Plans and Specifications. The documents shall be used as a guide to the construction of the project.

7.2. Shop Drawings

7.2.1. The contractor shall submit shop drawings to the owner for review and approval. The shop drawings shall be in accordance with the Project Plans and Specifications.

8. SUBMITTALS

8.1. General

8.1.1. The contractor shall submit material submittals to the owner for approval. The material submittals shall include materials that are to be used on the project.

8.2. Shop Drawings

8.2.1. The contractor shall submit shop drawings to the owner for review and approval. The shop drawings shall be in accordance with the Project Plans and Specifications.

9. QUALITY ASSURANCE

9.1. Quality Assurance Plan

9.1.1. The contractor shall develop and implement a Quality Assurance Plan for the project. The plan shall be approved by the owner and the engineer.

9.2. Quality Control

9.2.1. The contractor shall perform quality control tests as required by the Project Plans and Specifications.

10. SUBMITTALS

10.1. General

10.1.1. The contractor shall submit material submittals to the owner for approval. The material submittals shall include materials that are to be used on the project.

10.2. Shop Drawings

10.2.1. The contractor shall submit shop drawings to the owner for review and approval. The shop drawings shall be in accordance with the Project Plans and Specifications.
GENERAL

Provide 14 gauge reinforcement at head of all doors & frames, for surface mounted closers, whether or not such

Comply with manufacturer's installation instruction and recommendations, and with Sheet Metal and Air Condition

uses T, M


Cylindrical Sealant Backings: Comply with ASTM C1330

Position cross and/or furring channels at proper ceiling height. Level, plumb

Provide all labor, material and equipment for a complete installation of the following items as noted on the Drawings

HOLLOW METAL DOORS and FRAMES

channel stiffener horizontally, 6

x 4

Mastic Sealant: Polyisobutylene; Non hardening, non

Building Insulation

above opening and continue past single stud

Embedded Weld Connections:

Provide for separation of metal from non compatible metal or corrosive substrates by coating concealed surfaces to location

Vulkem 116

Gypsum Wallboard

Install as indicated on the drawings and details and attach as recommended by the manufacturer.

2.03     METAL CHANNELS:

2.02     FURRING CHANNELS:

1.02     RELATED WORK SPECIFIED ELSEWHERE: A. Section 09250

1.01     WORK DESCRIPTION:

D. Standard Stringers:

Embeds: All embeds are 100% Tested and Certified by independent third party inspection.

Steel plate: Standard sizes, 4 inches by 10 inches by 1/4 inch (102 mm by 254 mm by 6 mm), 12 inches by 12

1/4 inch (102 mm by 102 mm by 6 mm).

Connect to concrete members by clipping or bolting to develop full strength of wires. Wires spaced at 4' o.c. and at

structural framing and its installation shall comply with the following standards:

1.    Clear polyethylene sheeting,

2.   The product is primarily self

movement; meeting or exceeding ASTM C920

B.    Submit complete set of actual color samples (not photographs) for selection by Owner

3.       Masonry joints as noted.

4.       AMWELD

5.       Curries

6.       Mameco International

7.       Sonneborn

1.       SDI 105

2.       BEAM Joint PLUS

B.     Joint Profilador

C.     Section 08880

D.     Section 08710

A.    Neatly make all cutouts in doors for louvers and glazing as shown. Prepare doors to receive hardware in accord

A.    SDI 105

B.    Prime all woods, metals and other materials with rust inhibiting primer paint in

C.    A standard cement and lime based mortar of 1:3 or 1:4 as directed on packaging.

D.    Provide only quality, pre-primed, correctly sized, straight and true door panels.

E.    Use a rust inhibiting primer and paint as required.

F.    Provide glass stops for glazing.

C妻 suspected materials and vapor retarder. Use a 2-3" wide x 12" long x 1/4" thick piece of 45 mil HDPE sheeting which is

Drywall or wallboard must be installed in accordance with manufacturer's installation instructions. All joints shall be

C密 Insulation is applied to door and frame assemblies as noted on the Drawings, details and specifications. Placement

C密 Mortar or grout is an acceptable material.

C密 On concrete, anchors shall not be used as they will interfere with the installation of the finish door where performing

C密 Fiberboard shall be allowed for 1-1/2" bonding of pre-assembled door assemblies.

C密 Clean all debris and dust from project site and work areas. Perform work in a clean area.

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C密 Fiberboard shall be allowed for 1-1/2" bonding of pre-assembled door assemblies.

C密 Clean all debris and dust from project site and work areas. Perform work in a clean area.
Mount hardware units at heights indicated in "Recommended Locations for Builders Hardware" for Standard Steel accredited laboratories certifying the Extra Materials: Deliver to Owner at least 20 linear feet, of each type and color of resilient wall base installed.

WHERE GYPSUM BOARD SYSTEMS WITH FIRE RESISTANCE RATINGS ARE REQUIRED TO COMPLY WITH 1" apply gypsum board vertically (parallel).

Section 06100 "Rough Carpentry"

Fasteners

Product Certificates: Signed by manufacturers of resilient wall base and accessories certifying that each product Set units level, plumb and true to line and locations. Reinforce the attachment substrate as necessary for proper Install wall base in maximum lengths possible. Apply to walls, columns, pilasters, casework, and other permanent –

Upon completion of work of this Section remove related debris from premises.

GENERAL

Kawneer Door trim units; Obtain each kind of hardware (latch, and lock set, hinges, closers, & related items) from only one manufacturer.

DELIVER, IDENTIFY, STORE AND PROTECT GYPSUM DRYWALL MATERIALS TO COMPLY WITH Provide all labor, material and equipment necessary for a complete installation of all aluminum windows, hardware EXECUTION Performances

Drill and counter sink units which are not factory fasteners, hardware parts,

CUT./DRILL/COUNTER SINK: Perform the operations to cut or field cut or field cut or field

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Surface Preparation:
- Fill, sand, seal knots with Kilz.

Field Measurements:
- Where sizes of signs are indicated and/or determined by dimensions on surfaces on which they are to be attached.

Materials:
- 1 Kem Kromik Metal Primer
- "Epoxy" = 30 to 65 lbs.

Cleanup:
- Surfaces: Use approved cleaning methods, including the application of a cleaning chemical followed by water and approved sealer.
- Finished Metal Surfaces: Metal surfaces of anodized aluminum, factory finished metal, and metal surfaces or products with a standard metal finish for which the manufacturer recommends a cleaning/disinfecting agent.
- Concealed Surfaces: Unless otherwise indicated, painting is not required on surfaces such as walls or ceiling in concealed areas in the project.

Appearance of Finished Work:
- Variations in appearance of abutting or adjacent pieces shall be acceptable, as long as they are within range of approved samples. Noticeable variations in same piece will not be acceptable.

DELIVERY, STORAGE AND HANDLING
- Prime, stain or seal wood required to be job primed wood doors with a heavy coat of varnish or equivalent sealer immediately upon delivery.

PAINTING NOT INCLUDED
- Painting may be continued during inclement weather only if the areas and surfaces to be painted are enclosed and heated to a temperature that allows for appropriate curing.

PAINTING AND CLEANING:
- Paint, primers, and sealers shall comply with the requirements of Section 01340, and the following:
- Volume ofJECTION COMPOUNDS (VOCs) allowed shall be in accordance with applicable local, state, and federal codes, state and local codes, ordinances, etc. from authorities having jurisdiction.
- All components and formulations shall be in accordance with recommendations for applying and designating finishes.

END OF SECTION
**Foundation Plan**

- 1st Level: 10'-4 5/8" - 0'-0"
- 2nd Level: 0'-0" - 0'-0"

**Foundation Section**

- 1st Level: 12" of structural fill
- 2x studs @ 16" O.C.
- #4 continuous w/ 3" conc. cover

**Upper Level - Floor Plan**

- Start here 1'-0" O.C.
- 33'-11 1/4" - 9'-0 1/8"
- 9'-0 1/8" - 8'-11 7/8"

**Keynotes**

1. F16' 11 7/8" TJI 210 Joist
2. F14' 11 7/8" TJI 210 Joist
3. F12' 11 7/8" TJI 210 Joist
4. F4' 11 7/8" TJI 210 Joist
5. R16' 11 7/8" TJI 360 Joist
6. M1-2 1 3/4" x 11 7/8" 2.0E Microllam LVL
7. M2-2 1 3/4" x 11 7/8" 2.0E Microllam LVL
8. M3-2 1 3/4" x 11 7/8" 2.0E Microllam LVL
9. STC 1 1/8" x 11 7/8" TJ Rim Board

**Dimensions**

- 5'-4 1/2" - 1'-0"
- 9'-2 3/8" - 8'
- 43'-7 1/4" - 1'-0"
- 1'-0" - 1'-0"
RELOCATE EXISTING AXIAL WALL FAN, INTERLOCK WITH CONNECTIONS TO EXISTING SWITCHES AND EQUIPMENT.

EXISTING INFRARED HEATER TO REMAIN.

PROVIDE DUCT TERMINATION WITH WALL CAP AND BIRDSCREEN.

UNDERCUT DOOR 3/4".

MECHANICAL CONTRACTOR TO REMOVE EXISTING BASE BOARD HEATERS IN RESTROOM, OFFICE AND UPSTAIRS OFFICE.

TYPE B

8"Ø NECK

MVD

EUH

1

EUH

2

(2) TYPE A

127 CFM

8"Ø NECK

14"X10" DOWN TO 1ST FLOOR
**GRAND JUNCTION, COLORADO**

**NOTES:**

* EXECUTED
  * HP-1
  * EUH-2

**BRANCH DUCT TAKE-OFF**

AS SHOWN DRAWN BY:

22-100

12" FOR ALL BRANCH DUCTS LARGER THAN 12"

SPECIFIED FOR

* EQUALS WIDTH OF BRANCH DUCT UP TO 12"

ON FAN OR AIR SHEET METAL AS SPECIFIED FOR DUCT
BRANCH RETURN AIR FITTINGS.

A. PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE WITH MALLEABLE IRON FITTINGS.

B. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR NOT SPECIFIED OR IMPLIED.

C. VERIFY ALL FIGURES, CONDITIONS, AND DIMENSIONS AT THE JOB SITE.

NOTE-1

2. PROVIDE WITH POWER DISCONNECT, BLUE DIAMOND MINI CONDENSATE PUMP WITH RESERVOIR AND SENSOR, SIMPLE MA CONTROLLER, FILTER BOX WITH MERV 8 FILTERS, FLEX DUCT CONNECTIONS, VIBRATION ISOLATION, HANGARS, LINESET SIZE SPECIFIED OR IMPLIED.

NOTE-2

3. PROVIDE A SEALED TYPE WRITTEN REPORT SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR APPROVAL.

NOTE-3

4. PROPER PEX SIZING OR DESIGN SHALL NOT BE PERMITTED.

NOTE-4

5. PIPE SUPPORTS WILL NOT BE PERMITTED. SPACING OF PIPE SUPPORTS SHALL BE LISTED BY U.L., CLASS 1 DUCTS, AND SHALL HAVE A MINIMUM THICKNESS, COMPOSED OF A CORROSION RESISTANT METAL SUPPORTING SPIRAL AND X-FLEX ISOLATION KIT, HANGING BRACKET KIT, SOLID STATE SPEED CONTROL KIT, LOCAL 24 VAC TRANSFORMER/RELAY PACKAGE, FIXED PLATE ISOLATION KIT, DIESEL FUEL ISOLATION KIT, THERMOSTATS AS REQUIRED.

NOTE-5

6. HVAC CONTROLS SHALL BE LISTED BY U.L.

NOTE-6

7. ELECTRICAL UNIT HEATER SCHEDULE

A. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND TO THE ARCHITECT/ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS.

NOTE-7

8. ELECTRICAL UNIT HEATER SCHEDULE

A. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND TO THE ARCHITECT/ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS.

NOTE-8

9. ELECTRICAL UNIT HEATER SCHEDULE

A. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND TO THE ARCHITECT/ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS.

NOTE-9

10. ELECTRICAL UNIT HEATER SCHEDULE

A. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND TO THE ARCHITECT/ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS.

NOTE-10

11. ELECTRICAL UNIT HEATER SCHEDULE

A. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND TO THE ARCHITECT/ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS.

NOTE-11

12. ELECTRICAL UNIT HEATER SCHEDULE

A. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND TO THE ARCHITECT/ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS.

NOTE-12

13. ELECTRICAL UNIT HEATER SCHEDULE

A. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND TO THE ARCHITECT/ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS.

NOTE-13

14. ELECTRICAL UNIT HEATER SCHEDULE

A. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND TO THE ARCHITECT/ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS.

NOTE-14

15. ELECTRICAL UNIT HEATER SCHEDULE

A. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND TO THE ARCHITECT/ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS.

NOTE-15

16. ELECTRICAL UNIT HEATER SCHEDULE

A. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND TO THE ARCHITECT/ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS.

NOTE-16

17. ELECTRICAL UNIT HEATER SCHEDULE

A. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND TO THE ARCHITECT/ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS.

NOTE-17

18. ELECTRICAL UNIT HEATER SCHEDULE

A. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND TO THE ARCHITECT/ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS.

NOTE-18

19. ELECTRICAL UNIT HEATER SCHEDULE

A. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND TO THE ARCHITECT/ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS.

NOTE-19

20. ELECTRICAL UNIT HEATER SCHEDULE

A. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND TO THE ARCHITECT/ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS.
1. Existing hose reel 4''

June 17, 2022 - 10:33:37am

Main Level Plumbing Plan

Checked by: [Name]

Drawn by: [Name]

Date: 06/13/2022

Plumbing General Notes:

1. Plumbing fixtures shall be installed in accordance with the approved plumbing drawings. All plumbing fixtures shall be installed in accordance with the approved plumbing drawings. The contractor shall be responsible for coordinating with other trades and ensuring proper installation of all plumbing fixtures. Any changes to the plumbing fixtures shall be made in accordance with the approved plumbing drawings.

2. All plumbing fixtures shall be provided with means for isolation and shall be furnished with isolation valves. All plumbing fixtures shall be vented by the plumbing contractor per 2018 IPC requirements. Plumbing fixtures shall be provided with isolation valves at the domestic cold water connection.

3. All plumbing fixtures with quick closing valves on domestic cold/hot water shall be provided with water hammer arrestors. A water hammer arrestor shall be provided at the domestic cold water connection.

4. Isolation valve at domestic cold water connection.

5. Pipe dimensions do not reflect additional dimensions for insulation. All piping shall be insulated per 2018 IECC code requirements. Plumbing fixtures shall be provided with isolation valves at the domestic cold water connection.

6. All plumbing fixtures shall be vented by the plumbing contractor per 2018 IPC requirements.

7. Plumbing fixtures listed in the Schedule of Plumbing Fixtures shall remain. The rest of the domestic cold and hot systems shall remain. The existing hose reel shall remain.

8. Provide isolation valves at restroom to allow for total isolation of the entire restroom group from the remainder of the facility.

9. Provide 5 gallon Amstol expansion tank and pressure reducing valve.

10. Verify that domestic cold water line size, prior to commencing work. Confirm main line size.

11. Verify that domestic cold water line has been provided with means for isolation and shall be furnished with isolation valves. All plumbing fixtures shall be vented by the plumbing contractor per 2018 IPC requirements. Plumbing fixtures shall be provided with isolation valves at the domestic cold water connection.

12. Plumbing fixtures shall be vented by the plumbing contractor per 2018 IPC requirements.

13. Plumbing fixtures shall be provided with isolation valves at the domestic cold water connection.

14. Plumbing fixtures shall be provided with isolation valves at the domestic cold water connection.

15. Plumbing fixtures shall be provided with isolation valves at the domestic cold water connection.

16. Plumbing fixtures shall be provided with isolation valves at the domestic cold water connection.

17. Plumbing fixtures shall be provided with isolation valves at the domestic cold water connection.

18. Plumbing fixtures shall be provided with isolation valves at the domestic cold water connection.

19. Plumbing fixtures shall be provided with isolation valves at the domestic cold water connection.

20. Plumbing fixtures shall be provided with isolation valves at the domestic cold water connection.
PLUMBING SPECIFICATION

1. SCOPE OF WORK
   A. THE CONTRACTOR IS RESPONSIBLE FOR ALL MATERIALS AND LABOR TO
      COMPLETE THE FOLLOWING:
   B. ALL WORK MUST BE PERFORMED IN COMPLIANCE WITH THE
      INTERNATIONAL PLUMBING CODE (LATEST EDITION), THE CODES
      AND REGULATIONS OF THE JURISDICTION WHERE THE WORK
      IS PERFORMED, AND THE SPECIFICATIONS AND DRAWINGS
      PROVIDED TO THE CONTRACTOR.
   C. THE CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY PERMITS
      AND INSPECTIONS.
   D. THE CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY
      TEMPORARY AND PERMANENT PROTECTION TO PREVENT
      DAMAGE TO EXISTING STRUCTURES AND UTILITIES.
   E. THE CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY
      PROTECTION TO破解 EXISTING MATERIALS.
   F. THE CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY
      PROTECTION TO EXISTING MACHINERY AND EQUIPMENT.

2. MATERIALS
   A. ALL MATERIALS AND EQUIPMENT MUST MEET THE SPECIFICATIONS
      AND DRAWINGS PROVIDED TO THE CONTRACTOR.
   B. ALL MATERIALS AND EQUIPMENT MUST BE NEW AND IN GOOD
      CONDITION.
   C. ALL MATERIALS AND EQUIPMENT MUST BE INSTALLED IN
      ACCORDANCE WITH THE SPECIFICATIONS AND DRAWINGS.

3. WORKMANSHIP
   A. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORKMANSHIP.
   B. THE CONTRACTOR IS RESPONSIBLE FOR CORRECTING ANY
      DEFECTS IN WORKMANSHIP.
   C. THE CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY
      REPAIRS TO EXISTING STRUCTURES AND UTILITIES.

4. TESTING
   A. COORDINATE INSTALLATION OF ALL ROOFS FLASHING AT ROOF
      GEOMETRY.
   B. BELOW GRADE: SERVICE WT. CAST IRON WITH NO-HUB OR BELL AND
      SPIGOT JOINTS.
   C. ABOVE GROUND: PROVIDE TYPE "L" HARD DRAWN COPPER TUBING WITH
      BRAZED CONNECTIONS.
   D. DRAINAGE PIPING SHALL BE RUN AS STRAIGHT AS POSSIBLE AND SHALL
      HAVE 1/8 C.I. BENDS AND ELBOWS.
   E. DRAINAGE PIPING 3" SIZE AND SMALLER SHALL RUN AT A UNIFORM
      GRADE OF 1/8" TO S.F.
   F. ALL VENT PIPING SHALL BE SLOPED TO DRAIN BACK TO FIXTURES.
   G. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FLASHING OF THE
      ROOF AT ALL COUNTERS.

5. SANITARY/STORM DRAINAGE AND VENT PIPING
   A. SUBMIT MATERIAL LIST AND SHOP DRAWINGS FOR MAJOR EQUIPMENT TO THE
      CONTRACTOR.
   B. PROVIDE NICKEL BRONZE STRainers.
   C. INSTALL 3/4" TIGHT WALL DRAIN WITH A 1 1/4" O.D. TAILFACE.
   D. INSTALL A 1 1/4" O.D. TAILFACE WITH A 1/2" C.W. SUPPLY.
   E. INSTALL ELECTRIC WATER HEATER SCHEDULE.
   F. INSTALL COMMERCIAL WATER HEATER SCHEDULE.
   G. INSTALL ADA TANKLESS WATER HEATER SCHEDULE.

6. MISCELLANEOUS
   A. MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A
      PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR
      DURING THAT PERIOD SHALL BE CORRECTED AT THIS CONTRACTOR'S EXPENSE.
   B. THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED BY HIM.
      SHALL BE FREE FROM DEFECTS.
   C. THE PLUMBING PLANS ARE INTENDED TO BE DIAGRAMMATIC AND ARE BASED
      ON THE INTERPRETATION OF THE DESIGNER.
   D. COORDINATE INSTALLATION OF ALL ROOFS FLASHING AT ROOF
      GEOMETRY.
   E. SUBMIT MATERIAL LIST AND SHOP DRAWINGS FOR MAJOR EQUIPMENT TO THE
      CONTRACTOR.
   F. PROVIDE NICKEL BRONZE STRainers.
   G. INSTALL 3/4" TIGHT WALL DRAIN WITH A 1 1/4" O.D. TAILFACE.
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   I. INSTALL ELECTRIC WATER HEATER SCHEDULE.
   J. INSTALL COMMERCIAL WATER HEATER SCHEDULE.
   K. INSTALL ADA TANKLESS WATER HEATER SCHEDULE.

PLUMBING FIXTURE SCHEDULE

ELECTRIC WATER HEATER SCHEDULE

LOCAL MIXING VALVE SCHEDULE
**BRIEFING**

**LIGHTING LOAD CALCULATION**

(22) G1 @ 40.2W = 884.4 W

**LUMINAIRE SCHEDULE**

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<tr>
<th>TYPE</th>
<th>MANUFACTURER</th>
<th>CATALOG NO.</th>
<th>VOLTAGE</th>
<th>MOUNTING</th>
<th>DRIVER</th>
<th>LAMP SPECIFICATION</th>
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<td></td>
<td>COOPER LIGHTING METALUX</td>
<td>24FPSL2CT3-3500K-MEDIUM</td>
<td>120/277  UNV</td>
<td>LED FLAT PANEL</td>
<td>4620 LM, 4000K CCT, 80 CRI, 40.2W, 0-10V DIMMING DRIVER</td>
<td>APPLIED</td>
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<td>COOPER LIGHTING METALUX</td>
<td>4ST1L2040R</td>
<td>120/277  UNV</td>
<td>SURFACE MOUNTED</td>
<td>2200 LM, 4000K CCT, 80CRI, 20W</td>
<td>NO DIMMING DRIVER</td>
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**EXISTING LIGHTING IN HANGAR TO REMAIN**

**UPPER LEVEL LIGHTING PLAN**

**SCALE: 1/4"=1'-0"**

**NORTH**

**DATE:**

**CHECKED BY:**

**JOB NO:**

**DRAWN BY:**

**DATE:**

**ISSUED FOR:**

**SHEET NUMBER:**

**CMU HANGER**

2828 WALKER FIELD HANGAR 782

**GRAND JUNCTION, COLORADO**

**Bighorn Consulting Engineers, Inc.**

Mechanical & Electrical Engineers

386 Indian Road

Grand Junction, CO 81501

Phone: (970) 241-8709
**MECHANICAL EQUIPMENT SCHEDULE**

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<th>Project:</th>
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<tr>
<td><strong>Tab. 1</strong></td>
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**ONE-LINE DIAGRAM**

- **Diagram Description:**
  - Use consistent symbol styles for all equipment and connections.
  - Ensure all connections are clearly marked.
  - Include all necessary labels and text annotations.

**Panel Schedule**

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</tbody>
</table>

**Panel Schedule Notes:**

- **Panel Schedule Notes:**
  - Include any additional notes or references that are not visible in the diagram.
  - Make sure all notes are readable and organized.

**Diagram Details:**

- **Diagram Details:**
  - Include all necessary diagrams and flowcharts.
  - Ensure all diagrams are easily readable.
  - Use consistent colors and styles for all diagrams.

**Mechanical Equipment Schedule:**

- **Mechanical Equipment Schedule:**
  - Include all necessary mechanical equipment details.
  - Ensure all details are accurate and up-to-date.

**Panel Schedule:**

- **Panel Schedule:**
  - Include all necessary panel schedule information.
  - Ensure all information is accurate and up-to-date.

**Diagram:**

- **Diagram:**
  - Include all necessary diagrams and flowcharts.
  - Ensure all diagrams are easily readable.
  - Use consistent colors and styles for all diagrams.