**EXISTING BUILDING**

Architecture # 0000161
Structure # 2006031333
Missouri State Certificate of Authority

Hollis + Miller Architects

LIBERTY PUBLIC SCHOOLS
South Valley Middle School Storm Shelter Addition
1000 Midjay Dr, Liberty, MO 64068

**DRAWN BY:**
**DATE:**
**REVISIONS:**

The Professional Engineer's seal affixed to this sheet applies only to the material and items shown on this sheet. All drawings, instruments or other documents not exhibiting this seal shall not be considered prepared by this engineer, and this engineer expressly disclaims any and all responsibility for such plan, drawings, or documents not exhibiting this seal.

DC101
DEMOLITION PLAN

DEMOLITION NOTES:
1. Company shall be responsible to remove and prepare area for future construction.
2. Remaining materials and debris are removed and loaded per project plans.
3. Company shall notify public works department and satisfy the permit requirements.

DEMOLITION LEGEND
- Existing Structure
- Site Move
- Chimney Removal

Please consider the environment before printing this.
DESTRUCTION OF EXISTING MARKERBOARDS
FOR EXTENT
RE: MEP DRAWINGS

REMOVE EXISTING MECH. UNIT.
N5

EXISTING VESTIBULE
EXISTING EXTERIOR CANOPY TO BE
DEMONSTRATED - LEVEL 1
- DRAWINGS OF
EQUIP. RE: MEP
SALVAGE TO OWNER

REFERENCES TO EXISTING CONSTRUCTION NOT TO SCALE
SCALE 1-100

EXISTING ALUMINUM OR HOLLOW METAL
FRAMES TO BE REMOVED.

EXISTING GYPSUM BOARD CEILINGS AND
UNDER SLAB MECHANICAL, ELECTRICAL AND PLUMBING
SUSPENSION SYSTEM. EXISTING HANGER WIRE MAY BE
REUSED FOR NEW SUSPENSION SYSTEM.

REMOVE ALL/PORTION OF EXISTING CMU WALL.

REMOVE EXISTING LAY-IN ACOUSTICAL TILE AND
FRAMED GLAZING SYSTEM.

REMOVE EXISTING CONCRETE SLAB AS REQUIRED FOR
NEW WORK AND CAPPING OF ABANDONED SERVICES
& SUSPENSION SYSTEM TO BE REMOVED.

REMOVE EXISTING SOFFITS AND ALL EXISTING FRAMING.

REMOVE EXISTING CONCRETE SLAB AS REQUIRED FOR
NEW WORK AND CAPPING OF ABANDONED SERVICES
& SUSPENSION SYSTEM TO BE REMOVED.

REMOVE EXISTING PORCELAIN TILE AND BASE INCLUDING
MISMATCH TILES IN BUILDING. PREPARE SLAB FOR NEW
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REMOVE EXISTING LAY-IN ACOUSTICAL TILE AND
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1. Please consider the environment before printing this.

2. VOLTAGE DEVICES.

3. TURN OVER TO OWNER ALL CARD READER, CAMERA AND LOW VOLTAGE DEVICES.

4. ITEM TO MAINTAIN ALL EXISTING DEVICES. SALVAGE AND RETURN TO OWNER.

5. AWNING. REPAIR ALL CIRCUITS WITH EXISTING MATERIALS TO REMAIN IN USE.

6. DEMO EXTERIOR MOUNTED LIGHT FIXTURE, REPAIR LIGHT FIXTURES, DEMO EXTERIOR MOUNTED TRANSFORMER AND PANEL, DEMO EXTERIOR LIGHTS ON CIRCUIT.

7. THE TOP. BACK CONDUIT AND CAP AS NEEDED TO POUR NEW SLAB OVER EXISTING

8. DEMO EXTERIOR MOUNTED LIGHT FIXTURE, REPAIR LIGHT FIXTURES, DEMO EXTERIOR MOUNTED TRANSFORMER AND PANEL, DEMO EXTERIOR LIGHTS ON CIRCUIT.

9. THE TOP. BACK CONDUIT AND CAP AS NEEDED TO POUR NEW SLAB OVER EXISTING

10. DEMO EXTERIOR MOUNTED LIGHT FIXTURE, REPAIR LIGHT FIXTURES, DEMO EXTERIOR MOUNTED TRANSFORMER AND PANEL, DEMO EXTERIOR LIGHTS ON CIRCUIT.

11. THE TOP. BACK CONDUIT AND CAP AS NEEDED TO POUR NEW SLAB OVER EXISTING
PROPOSED BUILDING
FFE = 807.90
EXISTING BUILDING

Architecture # 0000161
Structure # 2006031333
Missouri State Certificate of Authority

Hollis + Miller Architects

DRAWN BY:
DATE:
REVISIONS:

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MKEC Engineering, Inc.
Civil Engineering / Landscape Architecture
State Certificate of Authority #:
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Landscaping: 2006027139
Surveying: 2006027138
11827 W. 112th St, Ste 200
Overland Park, KS 66210
913.317.9390 phone

Smith & Boucher Engineers
Mech/Elect/Plumb Engineer
State Certificate of Authority #EGC-0001787
25501 W. Valley Parkway, Ste 200
Olathe, KS 66061
913.345.2127 phone

Bob D Campbell
Structural Engineer
State Certificate of Authority #000442
4338 Belleview Ave
Kansas City, MO 64111
816.531.4144 phone

EROSION CONTROL PLAN
10.11.2023
BRADEN L. TAYLOR, P.E.
LISC. #2021001896
SCALE: 1"=10'
ALTERNATE NO.1 SCOPE WITHIN BOUNDARY LINE

ALTERNATE NO.1

ALL EXISTING ROOMS TO RECEIVE NEW ACOUSTICAL CEILING TILE (ACT) TO REPLACE EXISTING. EXISTING GRIDS TO REMAIN.

1. CLASSROOMS, STORAGE ROOMS, OFFICES, LOCKER ROOMS, SUPPORT SPACES TO RECEIVE CLG1 (24x48) OR CLG2 (24x24) TO MATCH EXISTING GRID SIZE

2. LOBBIES, RECEPTION, PUBLIC CIRCULATION, CLASSROOM CORRIDORS, VESTIBULES, MEDIA CENTER, & COMMONS TO RECEIVE CLG3

3. KITCHEN, CAFETERIA, RESTROOMS, SHOWERS & OTHER WET SPACES TO RECEIVE CLG4 (24x48) OR CLG5 (24x24) TO MATCH EXISTING GRID SIZE

Please consider the environment before printing this.
ALTERNATE NO.1

1. CLASSROOMS, STORAGE ROOMS, OFFICES, LOCKER ROOMS, SUPPORT SPACES TO RECEIVE
   CLG1 (24x48) OR CLG2 (24x24) TO MATCH EXISTING GRID SIZE

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ALTERNATE NO.1 SCOPE WITHIN BOUNDARY LINE

SHEET NOTES

Please consider the environment before printing this.
DOOR SCHEDULE

<table>
<thead>
<tr>
<th>ORIGIN</th>
<th>DESCRIPTION</th>
<th>Framework</th>
<th>Width</th>
<th>Height</th>
<th>Thickness</th>
<th>Notes</th>
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<tbody>
<tr>
<td>S-A100</td>
<td>PR 3'-0&quot; x 7'-0&quot; x 1 3/4&quot; E9</td>
<td>31</td>
<td>1</td>
<td>ALUM</td>
<td>REMOVABLE CENTER MULLION</td>
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<td>S-A100a</td>
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<td>FIXED CENTER MULLION</td>
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<td>EXISTING DOOR &amp; FRAME TO REMAIN, REMOVE MAGLOCKS</td>
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<td>S-x112</td>
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<td>EXISTING DOOR &amp; FRAME TO REMAIN, PNT</td>
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<td>S-A111</td>
<td>4'-0&quot; x 7'-0&quot; x 1 3/4&quot; A3</td>
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<td>A HM</td>
<td>A7/A501</td>
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<td>S-A108</td>
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<td>A HM</td>
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**GLASS LEGEND**

- FULL TEMPERED CLEAR GLASS
- LOW-E CLEAR INSULATED FULLY TEMPERED GLASS
- LOW-E CLEAR INSULATED FULLY TEMPERED GLASS
- LOW-E CLEAR INSULATED FULLY TEMPERED GLASS
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- LOW-E CLEAR INSULATED GLASS
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**DOOR TYPE NOTES**

- HOLLOW METAL DOOR – HIGH WIND DOOR ASSEMBLY
- HIGH WIND ASSEMBLY
- NO LITE
- ASSEMBLY – NO LITE
- (2) 20 GA HEAVY DUTY
- PRECUT SIDE TUCK LITE

**SCALE**

3" = 1'-0"
Threshold Detail - Threshold Hill Door Sill @ Wood Floor

**Threshold Details**

- **A11**
  - **Scale:** 3/4" = 1'-0" (High Wind DTL - Exterior Wall Louver - Interior Elevation)

**Keynote Legend**

- **07 21 00.A01** Extruded Polystyrene Board Insulation
- **08 11 13.A01** Hollow Metal Door - Heavy Duty
- **08 71 00.A01** Thresholds
- **09 64 66.A01** Wood Athletic Floor
- **09 64 66.A06** Resilient Wall Base (Vented)
- **03 30 00.A14** Vapor Retarders
- **03 30 00.A15** Granular Drainage Fill
- **1000 Midjay Dr, Liberty, MO 64068**

**Drawn by:** [Signature]

**Checked by:** [Signature]

**Date:** 10/11/2023

**Scale:** 3" = 1'-0" (Door & Window Details, Sheet A502)

**Notes:**
- CONSTRUCTION DOCUMENTS
- SHEET KEYNOTE LEGEND
- SCALE
- DRAWN BY: [Signature]
- CHECKED BY: [Signature]
- DATE: 10/11/2023

**Notes for Construction:**
- Please consider the environment before printing this.
**GENERAL FINISH NOTES**

1. REFER TO FINISH FLOOR PLANS, REFLECTED CEILING PLAN, ELEVATIONS, AND DETAILS FOR EXTENT OF MULTIPLE FINISHES.
2. DO NOT PAINT NATURAL OR MANUFACTURED STONE, BRICK, GLAZED BLOCK OR ANY OTHER PREFINISHED MATERIAL.
3. DO NOT PAINT ALUMINUM OR OTHER NON-FERROUS METALS THAT ARE PREFINISHED.
4. MATCH VERTICAL FINISH OF ALL INTERIOR GPB RD SOFFITS TO HORIZONTAL FINISH AS NOTED ON RCP OR ROOM FINISH SCHEDULE, UNO.
5. PAINT ALL EXPOSED CEILINGS DESIGNATED AS 'OTS' AS INDICATED ON ROOM FINISH SCHEDULE. PAINTING INCLUDES, BUT IS NOT LIMITED TO: EXPOSED STRUCTURE, JOISTS, METAL DECKING, EXISTING TECTUM PANELS, DUCTWORK AND MECHANICAL EQUIPMENT.
6. PAINT ALL EXPOSED STEEL, UNO.
7. PAINT ALL INTERIOR HOLLOW METAL DOORS AND FRAMES COLOR P6, UNO.
8. PAINT OR FINISH THE FOLLOWING ITEMS TO MATCH ADJACENT PAINT OR FINISH:
   a. ELECTRICAL PANELS IN FINISHED ROOM
   b. GRILLES, LOUVERS ETC. PRIMED OR SPECIFIED TO BE PAINTED
   c. UNFINISHED SPEAKER OUTLET GRILLES
   d. VISIBLE PORTIONS OF DUCTWORK AND MECHANICAL EQUIPMENT BEHIND VENTS, GRILLES AND DIFFUSERS

---

**MATERIAL FINISH LEGEND**

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>IS</th>
<th>NOTES</th>
<th>DESCRIPTION</th>
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<tr>
<td>Painted Wood</td>
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<td>A200 Mezzanine Storage</td>
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### ADA & Code Signage Schedule

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### Environmental Graphics Schedule

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### South Valley Middle School Storm Shelter Addition

- **Location**: 1000 Midjay Dr, Liberty, MO 64068
- **Phone**: 913.888.9111
- **Fax**: 913.317.9390
- **Civil Engineer**: MKEC Engineering, Inc.
- **Mechanical, Electrical, & Plumbing**: Smith & Boucher, Inc.
- **Structural Engineer**: Bob D Campbell
- **Avant Acoustics**: Avant Acoustics
- **Peerbolte Creative**: Theatrical Consultant

### Drawing Information

- **Drawn By**: [Name]
- **Checked By**: [Name]
- **Job No**: [Number]

### Revision Information

- **Date**: [Date]
- **Sheet KEYNOTE LEGEND**
- **PROJECT PICTOGRAMS**

---

Center of sign mounted 6" above finish floor.
SHEET KEYNOTE LEGEND

09 72 53.A01 - WALLCOVERING
10 14 00.A31 - CUSTOM FLAT CUT
10 14 00.A61 - HIGH EPOXY PAINT
10 14 00.A62 - EXTERIOR PAINT

ARTWORK TO BE SUPPLIED BY ARCHITECT

ALL DIMENSIONS AND MOUNTING CONDITIONS MUST BE VERIFIED IN THE FIELD PRIOR TO FINAL ARTWORK RELEASE

ALL ATTACHMENTS TO BE CONCEALED UNO. PROVIDE BLOCKING AS REQUIRED FOR SECURE ANCHORAGE. SEE ARCHITECTURAL WALL AND FOUNDATION DETAILS.

The Professional Architects seal affixed to this sheet applies only to the material and items shown on this sheet. All drawings, instruments or other documents not exhibiting this seal shall not be considered prepared by this architect, and this architect expressly disclaims any and all responsibility for such plan, drawings, or documents not exhibiting this seal.

Please consider the environment before printing this.
GENERAL NOTES - STRUCTURAL

1. General Information

A. The contents and all dimensions and notes contained herein are intended primarily to serve as a guide to the construction of the structures, installation of materials, and execution of general conditions of work. The professional coordinator of this project shall have the authority to establish and control all details of work on the premises and to establish all questions relative to the work when and if questions are raised.

B. The drawings and specifications shall be considered as a comprehensive set of plans and shall be interpreted as such.

C. General Notes are not to be considered as part of the contract drawings and specifications. They are intended as a guide to the architect and engineer in understanding the drawings and specifications for the general purpose of coordination.

D. Blueprints are not to be considered as part of the contract drawings and specifications.

2. Structural and Design Criteria

A. Structural steel shall be designed and detailed in accordance with the following governing design codes:


B. Design basis shall be Allowable Stress Design (ASD) unless otherwise specified in the drawings.

C. All structural work shall be called to the architect or engineer's attention for direction in the case of work in an existing building or in the case of work that is not specifically shown in the conceptual details in this set but may be required by the final plans.

3. Concrete

A. All concrete shall be obtained from a source certified by the manufacturer to conform to the standards specified herein.

B. Concrete shall be placed in accordance with the following standards:

- American Concrete Institute (ACI) Building Code

C. Concrete mix shop drawing shall contain testing data proving:

- Not over 5.40 gallons of water per 100 pounds of cement
- Not over 4 inches of slump

4. Composite Concrete

A. Composite concrete shall be designed and detailed in accordance with the American Concrete Institute (ACI) Building Code.

B. Composite concrete shall be used to provide the rigidity and strength required for the structure.

C. Composite concrete shall be designed to meet the following requirements:

- Minimum net compressive strength of 2650 psi
- Laid up in accordance with the manufacturer's written instructions.

D. Concrete in the structural portion retaining the backfill shall have attained its design values.

5. Structural Steel

A. Steel shall be designed and detailed in accordance with the following governing design codes:


B. Steel shall be designed to meet the following requirements:

- Minimum yield strength of 50 ksi
- Minimum tensile strength of 65 ksi

C. Steel shall be used to provide the rigidity and strength required for the structure.

D. Steel shall be designed to meet the following requirements:

- Minimum net compressive strength of 2650 psi
- Laid up in accordance with the manufacturer's written instructions.

6. Piped Insulated Tanks

A. Piped insulated tanks shall be designed and detailed in accordance with the American Water Works Association (AWWA) Standard for Piped Insulated Tanks.

B. Piped insulated tanks shall be designed to meet the following requirements:

- Minimum yield strength of 50 ksi
- Minimum tensile strength of 65 ksi

C. Piped insulated tanks shall be used to provide the rigidity and strength required for the structure.

D. Piped insulated tanks shall be designed to meet the following requirements:

- Minimum net compressive strength of 2650 psi
- Laid up in accordance with the manufacturer's written instructions.

7. Foundations

A. Foundations shall be designed and detailed in accordance with the following governing design codes:


B. Foundations shall be designed to meet the following requirements:

- Minimum yield strength of 50 ksi
- Minimum tensile strength of 65 ksi

C. Foundations shall be used to provide the rigidity and strength required for the structure.

D. Foundations shall be designed to meet the following requirements:

- Minimum net compressive strength of 2650 psi
- Laid up in accordance with the manufacturer's written instructions.

8. Concrete Slab on Grade

A. Concrete slab on grade shall be designed and detailed in accordance with the American Concrete Institute (ACI) Building Code.

B. Concrete slab on grade shall be designed to meet the following requirements:

- Minimum yield strength of 50 ksi
- Minimum tensile strength of 65 ksi

C. Concrete slab on grade shall be used to provide the rigidity and strength required for the structure.

D. Concrete slab on grade shall be designed to meet the following requirements:

- Minimum net compressive strength of 2650 psi
- Laid up in accordance with the manufacturer's written instructions.

9. Light Gauge Metal Structural Framing

A. Light gauge metal structural framing shall be designed and detailed in accordance with the following governing design codes:


B. Light gauge metal structural framing shall be designed to meet the following requirements:

- Minimum yield strength of 50 ksi
- Minimum tensile strength of 65 ksi

C. Light gauge metal structural framing shall be used to provide the rigidity and strength required for the structure.

D. Light gauge metal structural framing shall be designed to meet the following requirements:

- Minimum net compressive strength of 2650 psi
- Laid up in accordance with the manufacturer's written instructions.

10. Metal Joist Girder Framing

A. Metal joist girder framing shall be designed and detailed in accordance with the following governing design codes:


B. Metal joist girder framing shall be designed to meet the following requirements:

- Minimum yield strength of 50 ksi
- Minimum tensile strength of 65 ksi

C. Metal joist girder framing shall be used to provide the rigidity and strength required for the structure.

D. Metal joist girder framing shall be designed to meet the following requirements:

- Minimum net compressive strength of 2650 psi
- Laid up in accordance with the manufacturer's written instructions.

11. Steel and Composite Joists

A. Steel and composite joists shall be designed and detailed in accordance with the following governing design codes:


B. Steel and composite joists shall be designed to meet the following requirements:

- Minimum yield strength of 50 ksi
- Minimum tensile strength of 65 ksi

C. Steel and composite joists shall be used to provide the rigidity and strength required for the structure.

D. Steel and composite joists shall be designed to meet the following requirements:

- Minimum net compressive strength of 2650 psi
- Laid up in accordance with the manufacturer's written instructions.

12. Steel and Composite Joists

A. Steel and composite joists shall be designed and detailed in accordance with the following governing design codes:


B. Steel and composite joists shall be designed to meet the following requirements:

- Minimum yield strength of 50 ksi
- Minimum tensile strength of 65 ksi

C. Steel and composite joists shall be used to provide the rigidity and strength required for the structure.

D. Steel and composite joists shall be designed to meet the following requirements:

- Minimum net compressive strength of 2650 psi
- Laid up in accordance with the manufacturer's written instructions.

13. Copyright and Disclaimer

A. The information contained in this document is intended for the exclusive use of the project and is not to be used for any other purpose.

B. The information contained in this document is not to be reproduced or distributed without the express written consent of the copyright holder.

C. The information contained in this document is not to be used or relied upon by any third party for any purpose.

D. The information contained in this document is not to be used or relied upon by any third party for any purpose.

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Y. The information contained in this document is not to be used or relied upon by any third party for any purpose.

Z. The information contained in this document is not to be used or relied upon by any third party for any purpose.
1. Design Information
   
   A. Use of Stainless Steel: Consideration shall be given to the use of stainless steel components in the structural system to increase durability and resistance to corrosion.
   
   B. Use of Precast Concrete: Precast concrete shall be used in the construction of the structural system to ensure structural integrity and reduce on-site construction time.
   
   C. Use of Other Materials: Other materials such as reinforced concrete, steel, and wood may be used in conjunction with the structural system for load-bearing and non-load-bearing components.
   
2. Structural Observations
   
   A. General Contractor shall provide notification to the inspector when items requiring correction have been identified.
   
   B. The special inspector shall submit a final signed report stating that the work requiring verification is complete.
   
   C. The special inspector shall furnish inspection reports to the building official, owner, and any designated person.
   
3. ICC 500 Contractor Responsibility
   
   A. The following inspections and tests are required with the frequency (continuous or periodic):
      
      1. Shop Fabrication
      2. Concrete Curing
      3. Prestressed Concrete Stressing and Grouting
      4. Concrete Placement
      5. Reinforcing Steel Placement
      6. Cast in Place Anchors
      7. Erection of Precast
      8. Prestressed Concrete Stressing and Grouting
      9. Concrete Curing
      10. Structural Observation
   
   B. The structural design for this project is based on completion of special inspections and other inspections as required by the building code.
   
   C. The structural design for this project is based on completion of special inspections and other inspections as required by the building code.
   
   D. The structural design for this project is based on completion of special inspections and other inspections as required by the building code.
   
   E. The structural design for this project is based on completion of special inspections and other inspections as required by the building code.
   
   F. The structural design for this project is based on completion of special inspections and other inspections as required by the building code.
   
   G. The structural design for this project is based on completion of special inspections and other inspections as required by the building code.
   
   H. Lay down, rollover and collapse hazards have been considered.
   
   I. The structural design for this project is based on completion of special inspections and other inspections as required by the building code.
   
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      6. Cast in Place Anchors
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      8. Prestressed Concrete Stressing and Grouting
      9. Concrete Curing
      10. Structural Observation
   
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   Z. The structural design for this project is based on completion of special inspections and other inspections as required by the building code.

   4. Impact Resistance of Concrete Wall Assemblies
   
   
   5. Impact Resistance of Concrete Roof Assemblies
   
EXISTING 2 PSI NATURAL GAS METER AND 4" UP ALONG EXTERIOR WALL TO ROOF TO REMAIN.
CONNECT NEW 2 PSI BRANCH LINE TO EXISTING 3" NATURAL GAS MAIN. PROVIDE SHUT-OFF VALVE AT NEW CONNECTION.
GENERAL NOTES:

1. INFORMATION SHOWN ON THE DRAWINGS IS INTENDED TO CONVEY SCOPE AND IS ARRANGED FOR DRAWING CLARITY. IT IS NOT TO BE TAKEN AS AN AS-BUILT CONDITION. THE SYSTEM INSTALLATION SHALL BE COORDINATED WITH STRUCTURE AND ALL OTHER TRADES TO PROVIDE FOR A COMPLETE AND WORKING SYSTEM.

2. CAREFULLY COORDINATE ROUTING OF SERVICES WITH STRUCTURE AS WELL AS ALL OTHER TRADES TO MAINTAIN EQUIPMENT CLEARANCES.

3. COORDINATE INSTALLATION AND PENETRATIONS OF ALL NEW SERVICES WITH STRUCTURAL PRIOR TO CUTTING.

4. EXTEND ALL CONDENSATE DRAINS TO NEAREST ROOF DRAIN.

5. PAINT ALL PVC PIPING ON ROOF TO PROVIDE FOR UV PROTECTION. PAINT HORIZONTAL PIPING WHITE. PAINT VERTICAL PIPING COLOR AS DIRECTED BY ARCHITECT.

6. ALL SERVICES SHOWN HALF TONE ARE EXISTING.

MECHANICAL PLAN NOTES:

1. PROVIDE REFRIGERATION LINESETS THROUGH THE ROOF BETWEEN THE INDOOR UNIT AND OUTDOOR CONDENSING UNIT. REFER TO THE MANUFACTURER'S REQUIREMENTS FOR PIPE SIZES AND QUANTITY.

2. 8" DIAMETER OUTSIDE AIR DUCT THROUGH THE ROOF. TERMINATE VIA GOOSENECK WITH BIRD SCREEN OVER DUCT OPENING.

3. PROVIDE CURB-MOUNTED ROOFTOP UNIT SCREEN.

4. 3/4" COLD WATER DOWN THROUGH ROOF. PROVIDE 2 PSI TO 11" W.C. PRESSURE REGULATOR RATED FOR THE RTU NAMEPLATE GAS LOAD.
GENERAL NOTES:

1. PLAN NOTES:
   - 4" SANITARY SEWER EXIT LOCATION. ROUTE BELOW STRUCTURAL FOOTING. APPROXIMATE FLOWLINE 66" BELOW FINISHED FLOOR. COORDINATE EXACT LOCATION AND DEPTH WITH SITE UTILITIES CONTRACTOR PRIOR TO INSTALLATION. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
   - 8" STORM SEWER EXIT LOCATION. ROUTE BELOW STRUCTURAL FOOTING. APPROXIMATE FLOWLINE 63" BELOW FINISHED FLOOR. COORDINATE EXACT LOCATION AND DEPTH WITH SITE UTILITIES CONTRACTOR PRIOR TO INSTALLATION. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
   - 8" STORM UP IN CHASE.
   - 4" SANITARY UP TO WATER CLOSET.
   - 2" SANITARY UP TO FLOOR DRAIN.
   - 2" SANITARY UP TO 1-1/2" VENT.
   - 2" SANITARY UP TO LAVATORY/SINK.
   - 2" SANITARY UP TO DRINKING FOUNTAIN.
   - 4" SANITARY UP TO FLOOR CLEANOUT.
   - 2" SANITARY UP TO HUB DRAIN.

CONSTRUCTION DOCUMENTS

Scale

1/8" = 1'-0"
OVERALL PLUMBING PLAN - MEZZANINE

PLUMBING PLAN - LEVEL 1 - AREA A

Event Entry A100

4" ST/O

6" DSN-1 ST CO

8" WH-1 AB

3/4" CO ST/O

3/4" 16

8" X112

AV / Elec

EXPANSION TANK

3/4" 2" 1" 2" FD-1

2" S-1

2" Mezzanine Storage

3/4" 1" 2" 1/2" ST

3" VTR

Equipment x112d

WC-1 2" FD-1 2" EWC-1

WC-2 L-1

Boys A106 A110

Girls A103 x112e

Storage A113 ST/O

Platform A200

Mechanical

HWCP-5 EWH-5

2" FD-1

6" 4' 0' 8'

H

ST/O 1

5

6" WC-2 3" VTR

CO

WH-1

1" 6" 4" 3/4" 2" 13

2" 14

3/4" 15

2" 12

Platform

3/4" 11

3/4" 10

3/4" 5

2" 1

5

4

3

2

1

1. Please consider the environment before printing this.

WITHIN THE WALL/CHASE. PIPING SHOWN OFFSET FOR ROUTE 8" STORM OVERFLOW AND 3/4" COLD WATER DOWN FROM INDOOR SPLIT SYSTEMS.

PROVIDE HUB DRAIN UNDER THE SINK FOR CONDENSATE ROUTE PIPING BELOW THE STAIRS.

ROUTE PIPING DOWN AT LOWER CEILING AND UNDER THE STRUCTURAL BEAM BELOW THE MEZZANINE.

ROUTE PIPING DOWN IN STAGE TIGHT TO THE BOTTOM OF 2" VENT BETWEEN MEZZANINE AND FIRST FLOOR. ROUTE WITHIN CHASE.

DETAILS FOR ADDITIONAL INFORMATION.

CLARITY. REFER TO THE PLUMBING RISER DIAGRAMS AND ABOVE THE STORAGE TANK, WHICH IS SHOWN OFFSET FOR CLARITY.

ROUTE PIPING ABOVE STRUCTURE.

ROUTE PIPING IN STAGE TIGHT TO THE BOTTOM OF PANELBOARDS AND EQUIPMENT.

DO NOT ROUTE PIPING OVER ELECTRICAL AND AV MOUNTED AT 24" ABOVE FINISHED GRADE.

4" STORM OVERFLOW DOWN TO DOWNSPOUT NOZZLE MOUNTED AT 24" ABOVE FINISHED GRADE.

8" STORM OVERFLOW DOWN TO DOWNSPOUT NOZZLE OF HOT WATER CONNECTION.

ROUTE HOT WATER PIPING DOWN IN WALL AND WITHIN 6" 3/4" COLD WATER UP TO ROOF HYDRANT.

8" STORM AND 8" STORM OVERFLOW BETWEEN MEZZANINE AND FIRST FLOOR. ROUTE WITHIN CHASE.

8" STORM AND 4" STORM OVERFLOW UP TO ROOF DRAIN.
EXISTING MAIN SWITCHBOARD SWB1

NEW PANEL HP6 FEEDER, RED ONE-LINE DIAGRAM. ROUTE CONDUIT AS TIGHT TO DECK AS POSSIBLE. PENTRATE GYM WALL AS HIGH AS POSSIBLE ON EXITS, PAINT CONDUITA TO MATCH CEILING.

OVERALL POWER PLAN - LEVEL 1

South Valley Middle School Storm Shelter Addition

1000 Midjay Dr, Liberty, MO 64068

10.11.2023

Peerbolte Creative
Theatrical Consultant
109 E Pine St.
Warrensburg, MO 64093-0752
660.429.1383 phone

Avant Acoustics
AV/Acoustics Consultant
14827 West 95th St.
Lenexa, KS 66215
913.888.9111 phone

OVERALL POWER PLAN - LEVEL 1

Scale
1" = 20'-0"
LIGHT FIXTURE SCHEDULE

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<td>LED</td>
<td>D500</td>
<td>White</td>
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<td>Daylighting</td>
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<td>D600</td>
<td>White</td>
<td>96</td>
<td>Daylighting</td>
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</tbody>
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NOTE 4: PROVIDE A DIGITAL LIGHTING CONTROL SYSTEM FROM A MANUFACTURER LISTED IN SPECIFICATION SECTION 260923 - LIGHTING CONTROL DEVICES. WIRELESS SYSTEMS ARE NOT PERMITTED.

NOTE 3: OCCUPANCY SENSOR LOCATIONS SHOWN ON FLOOR PLANS ARE GENERIC, CONTRACTOR TO MODIFY LOCATIONS AS REQUIRED BASED ON COVERAGE CAPABILITIES OF SUBMITTED PRODUCTS.

NOTE 2: OCCUPANCY SENSOR LOCATIONS SHOWN ON FLOOR PLANS ARE GENERIC, CONTRACTOR TO MODIFY LOCATIONS AS REQUIRED BASED ON COVERAGE CAPABILITIES OF SUBMITTED PRODUCTS.

NOTE 1: OCCUPANCY SENSOR LOCATIONS SHOWN ON FLOOR PLANS ARE GENERIC, CONTRACTOR TO MODIFY LOCATIONS AS REQUIRED BASED ON COVERAGE CAPABILITIES OF SUBMITTED PRODUCTS.
1. **Wall Assembly** - The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described within the individual U300, U400 or V400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall incorporate the following construction features:

2. **Firestop Device** - Firestop device consists of a 1.4 by 1.4 by 10-1/2 in. (36 by 36 by 267 mm) long galv steel tube with an intumescent material lining. Firestop device to be installed in accordance with the accompanying installation instructions. Prior to installation, the firestop device shall be tested in accordance with UL standard 260.

3. **Fill, Void or Cavity Material** - Fill material shall be a minimum of 0 in. (0 mm, point contact) to a maximum of 1/2 in. (13 mm) thick. The fill material shall be applied at the point of contact with the firestop device and periphery of opening on each side of wall assembly. Nom 3/8 in. (10 mm) diam bead of fill material applied at the point of contact with the firestop device.

4. **Sealant** - A minimum of 5/8 in. (16 mm) thickness of sealant to be applied in annular space between firestop opening and fireproofed surface.

5. **Data Cables** - A maximum of four pair No. 22 AWG (or smaller) copper conductor data cable with polyvinyl chloride (PVC) or plenum rated jacketing and insulation. The rating is 1 hr and 1-1/4 hr in 1 hr and 2 hr rated walls, respectively, when cables are installed in firestop device.

6. **Cable Supports** - Cables to be rigidly supported on both sides of the wall assembly. The cables shall be distributed at a uniform height across the width of the firestop device module. Cables to be tightly supported at intervals not exceeding 24 in. (610 mm) for walls and 48 in. (1219 mm) for partitions.

7. **Bonding Jumper** - A bonding jumper shall be installed at each termination point to ensure proper electrical bonding of all conductors.

8. **Ground Bus Bar** - A ground bus bar shall be installed at each termination point to ensure proper grounding of the system.

9. **Grounding** - All materials used to seal penetrations of fire rated walls and floors shall be grounded in accordance with local electrical codes.

10. **Termination Notes** - Termination notes shall be included in the construction documents to ensure proper termination of all conductors.

11. **Labels** - A typical labeling scheme shall be provided to ensure proper identification of all terminations.

12. **Cabinet (LC-Type Connectors)** - A typical cabinet (LC-Type Connectors) shall be provided to ensure proper termination of all conductors.

13. **.telecommunications equipment** - Telecommunications equipment shall be mounted to allow access to terminations and meet safety requirements.
1. Place ADA push button at entrance to provide access to all doors.

2. Ensure all devices are installed per manufacturer's specifications.

3. Coordinate the exact requirements of door access system with the security contractor prior to rough-in.

4. All conduit shall have bushings on both ends to prevent damage to cables.

5. Provide conduit raceway to door framing installation.

6. Use 3/4" conduit with pull rope (typical).

7. Provide support per structural engineer's specifications.

8. Mount the transformer on an isolation pad.

9. Provide ventilation for the transformer according to manufacturer's recommendations.

10. For wall type to be installed in ceiling location.

11. For exterior facade, provide protection from weather.

12. For recessed mount door contact, provide support per manufacturer's specifications.

13. For intercom call station, mount at recommended height. If no manufacturer's instructions, mount at equipment shown.

14. For card reader, provide support per manufacturer's specifications.

15. For power transfer (where required), follow specific guidelines.

16. For data cable to I.T. room, make connection (biscuit) above ceiling.

17. For data cable/jumper from camera to biscuit, by others.

18. For wall type to be installed in location.

19. For exterior camera outlet, provide support per manufacturer's specifications.

20. For call box, mount at a secure side or interior with a weather tight enclosure.

21. For theatrical consultant, provide support in accordance with the consultant's instructions.

22. For AV/ACoustics consultant, provide support in accordance with the consultant's instructions.

23. For AV/NTV consultant, provide support in accordance with the consultant's instructions.

24. For construction documents, ensure they are complete and up-to-date.

25. For this seal, ensure it is properly affixed to the documents.

26. For this information, please consult with the project team and the project manager.

27. For any and all responsibility for such plan, drawings, or documents not exhibiting this seal, this architect expressly disclaims.

28. For all electrical and mechanical systems, ensure they are installed per manufacturer's specifications.

29. For all power transfer systems, ensure they are installed per manufacturer's specifications.

30. For all data systems, ensure they are installed per manufacturer's specifications.

31. For all AV systems, ensure they are installed per manufacturer's specifications.

32. For all acoustics systems, ensure they are installed per manufacturer's specifications.

33. For all security systems, ensure they are installed per manufacturer's specifications.

34. For all HVAC systems, ensure they are installed per manufacturer's specifications.

35. For all plumbing systems, ensure they are installed per manufacturer's specifications.

36. For all electrical systems, ensure they are installed per manufacturer's specifications.

37. For all mechanical systems, ensure they are installed per manufacturer's specifications.

38. For all electrical panels, ensure they are installed per manufacturer's specifications.

39. For all power systems, ensure they are installed per manufacturer's specifications.

40. For all distribution systems, ensure they are installed per manufacturer's specifications.

41. For all lighting systems, ensure they are installed per manufacturer's specifications.

42. For all control systems, ensure they are installed per manufacturer's specifications.

43. For all alarm systems, ensure they are installed per manufacturer's specifications.

44. For all communication systems, ensure they are installed per manufacturer's specifications.

45. For all fire protection systems, ensure they are installed per manufacturer's specifications.
EXISTING DOMESTIC WATER AND FIRE SPRINKLER ENTRY ROOM

DO NOT ROUTE PIPING THROUGH THE EXISTING GYM SPACE

KEY PLAN

PLAN NOTES:
PROVIDE SPRINKLER SYSTEM FOR BUILDING ADDITION PER NFPA 13 REQUIREMENTS. PROVIDE ALL NECESSARY ACCESSORIES AND REQUIREMENTS FOR NEW ZONE. CONNECT TO THE EXISTING FIRE PROTECTION SYSTEM. MODIFY THE EXISTING SPRINKLER SYSTEM AS REQUIRED TO ACCOMMODATE ROOM AND CEILING CHANGES.

EXISTING CEILINGS ARE BEING REPLACED. UNINSTALL THE EXISTING CEILING-MOUNTED SPRINKLER HEADS AND REINSTALL IN NEW CEILINGS. MODIFY THE EXISTING SPRINKLER SYSTEM AS REQUIRED TO ACCOMMODATE ROOM AND CEILING CHANGES.

COORDINATE ALL PIPE ROUTING AND SPRINKLER LOCATIONS WITH ARCHITECT AND THEATRICAL COMPONENTS.
South Valley Middle School Storm Shelter Addition
Liberty Public Schools
10150 Liberty Dr.
Liberty, MO 64068
10.11.2023

Conformed

Construction

# Description Date
1 Addendum 01 09/14/2023
2 Addendum 04 09/28/2023

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Drawn by: [Signature]
Date: [Date]
Rev.: [Revision]

Checkered by: [Signature]

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| ITEM | DESCRIPTION | LOCATION | RIGGING DETAILS | DATE
|------|-------------|----------|----------------|-----
| 1   | 12" MAIN VALANCE | 474" x 213" | 75% | 24" x 108" | 12/1/2023
| 2   | 18" GRAND VALANCE | 360" x 213" | 75% | 24" x 108" | 12/1/2023
| 3   | 90° 1st LEG | 120" x 213" | 60% | 24" x 108" | 12/1/2023
| 4   | 90° 1st BORDERS | 474" x 63" | 50% | 24" x 108" | 12/1/2023
| 5   | 90° 1st ELECTRIC | 21" x 108" | 50% | 24" x 108" | 12/1/2023
| 6   | 90° 2nd LEG | 120" x 213" | 60% | 24" x 108" | 12/1/2023
| 7   | 90° 2nd BORDERS | 474" x 63" | 50% | 24" x 108" | 12/1/2023
| 8   | 90° 2nd ELECTRIC | 21" x 108" | 50% | 24" x 108" | 12/1/2023
| 9   | 90° 3rd LEG | 120" x 213" | 60% | 24" x 108" | 12/1/2023
| 10  | 90° 3rd BORDERS | 474" x 63" | 50% | 24" x 108" | 12/1/2023
| 11  | 90° 3rd ELECTRIC | 21" x 108" | 50% | 24" x 108" | 12/1/2023
| 12  | 90° 4th LEG | 120" x 213" | 60% | 24" x 108" | 12/1/2023
| 13  | 90° 4th BORDERS | 474" x 63" | 50% | 24" x 108" | 12/1/2023
| 14  | 90° 4th ELECTRIC | 21" x 108" | 50% | 24" x 108" | 12/1/2023
| 15  | 90° 5th LEG | 120" x 213" | 60% | 24" x 108" | 12/1/2023
| 16  | 90° 5th BORDERS | 474" x 63" | 50% | 24" x 108" | 12/1/2023
| 17  | 90° 5th ELECTRIC | 21" x 108" | 50% | 24" x 108" | 12/1/2023
| 18  | 90° 6th LEG | 120" x 213" | 60% | 24" x 108" | 12/1/2023
| 19  | 90° 6th BORDERS | 474" x 63" | 50% | 24" x 108" | 12/1/223
| 20  | 90° 6th ELECTRIC | 21" x 108" | 50% | 24" x 108" | 12/1/2023
| 21  | 90° 7th LEG | 120" x 213" | 60% | 24" x 108" | 12/1/2023
| 22  | 90° 7th BORDERS | 474" x 63" | 50% | 24" x 108" | 12/1/2023

**Scale:**
- 1" = 200"

**Legend:**
- A1: RIGGING SCHEDULE
- TH101: KEY PLAN

**Notes:**
- Please consider the environment before printing this document.
- All dimensions are approximate. Actual sizes and elevations shall be determined by existing conditions and field measurements.
Please consider the environment before printing this.