Total Building Occupant Load 7659 SF 609

A107 Mechanical Accessory Storage Areas, Mechanical Equipment Room 112 SF 300 SF 1

A103 Multipurpose Assembly With Fixed Seats 5805 SF 0 SF 491

BLDG 2 - ADDITION TO

Scale 1" = 20'-0"

EXISTING 1-HOUR FIRE AND
PREVIOUS BUILDING CODE DATA PER 1994 UBC

TYPE OF CONSTRUCTION: II-B

SEPARATION WALL
FIRE  RATED
EXISTING 2-HOUR

OCCUPANT LOAD
SPACE
LOAD

Factor

1S:20

1S:20

1S:20

1S:20

1S:20
DEMO LEGEND

GENERAL DEMOLITION NOTES

1. DEMOLITION INCLUDES THE REMOVAL OF EXISTING FLOORS & BASE.
2. DEMOLITION INCLUDES THE REMOVAL OF EXISTING CEILING AND WALL FINISHES.
3. HALF-TONE SHADING INDICATES EXISTING CONSTRUCTION TO BE REMOVED.
4. EVERY DETAIL OF THE DEMOLITION WORK MAY NOT BE COVERED ON THESE DRAWINGS, BUT THE DEMOLITION LEGEND (SHADE, PATTERN, OR NOTATION) INDICATES THE REMOVAL OF THE EXISTING ITEMS.
5. IN AREAS SCHEDULED FOR DEMOLITION, ALL ACCESSORIES ATTACHED TO THE CONSTRUCTION TO BE REMOVED OR DEBRIS IN ANY FORM THAT CORRESPONDS TO THE LEGEND.
6. THE OWNER (OR THEIR AUTHORIZED AGENT) IS RESPONSIBLE FOR REMOVING THE REMAINDER OF THE DEMOLITION WORK. CONSTRUCTION SHALL BE CLEANED UP TO THE SATISFACTION OF THE OWNER.

FLOORS & BASE

1. REMOVE EXISTING CONCRETE SLAB AS REQUIRED FOR NEW CONSTRUCTION. SAW CUT CONCRETE PRIOR TO REMOVAL.
2. REMOVE EXISTING CONCRETE SLAB AS REQUIRED FOR NEW CONSTRUCTION. SAW CUT CONCRETE PRIOR TO REMOVAL.
3. REMOVE EXISTING CONCRETE SLAB AS REQUIRED FOR NEW CONSTRUCTION. SAW CUT CONCRETE PRIOR TO REMOVAL.
4. REMOVE EXISTING CONCRETE SLAB AS REQUIRED FOR NEW CONSTRUCTION. SAW CUT CONCRETE PRIOR TO REMOVAL.

WALLS

1. REMOVE EXISTING CONCRETE SLAB AS REQUIRED FOR NEW CONSTRUCTION. SAW CUT CONCRETE PRIOR TO REMOVAL.
2. REMOVE EXISTING CONCRETE SLAB AS REQUIRED FOR NEW CONSTRUCTION. SAW CUT CONCRETE PRIOR TO REMOVAL.
3. REMOVE EXISTING CONCRETE SLAB AS REQUIRED FOR NEW CONSTRUCTION. SAW CUT CONCRETE PRIOR TO REMOVAL.
4. REMOVE EXISTING CONCRETE SLAB AS REQUIRED FOR NEW CONSTRUCTION. SAW CUT CONCRETE PRIOR TO REMOVAL.

CEILINGS

1. REMOVE EXISTING CONCRETE SLAB AS REQUIRED FOR NEW CONSTRUCTION. SAW CUT CONCRETE PRIOR TO REMOVAL.
2. REMOVE EXISTING CONCRETE SLAB AS REQUIRED FOR NEW CONSTRUCTION. SAW CUT CONCRETE PRIOR TO REMOVAL.
3. REMOVE EXISTING CONCRETE SLAB AS REQUIRED FOR NEW CONSTRUCTION. SAW CUT CONCRETE PRIOR TO REMOVAL.
4. REMOVE EXISTING CONCRETE SLAB AS REQUIRED FOR NEW CONSTRUCTION. SAW CUT CONCRETE PRIOR TO REMOVAL.

DEMO NOTES

4. DEMOLITION INCLUDES THE REMOVAL OF EXISTING FLOORS & BASE.
5. DEMOLITION INCLUDES THE REMOVAL OF EXISTING CEILING AND WALL FINISHES.
6. EVERY DETAIL OF THE DEMOLITION WORK MAY NOT BE COVERED ON THESE DRAWINGS, BUT THE DEMOLITION LEGEND (SHADE, PATTERN, OR NOTATION) INDICATES THE REMOVAL OF THE EXISTING ITEMS.
7. IN AREAS SCHEDULED FOR DEMOLITION, ALL ACCESSORIES ATTACHED TO THE CONSTRUCTION TO BE REMOVED OR DEBRIS IN ANY FORM THAT CORRESPONDS TO THE LEGEND.
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Discovery Middle School Storm Shelter Addition

1. DEMOLITION INCLUDES THE REMOVAL OF EXISTING FLOORS & BASE.
2. DEMOLITION INCLUDES THE REMOVAL OF EXISTING CEILING AND WALL FINISHES.
3. HALF-TONE SHADING INDICATES EXISTING CONSTRUCTION TO BE REMOVED.
4. EVERY DETAIL OF THE DEMOLITION WORK MAY NOT BE COVERED ON THESE DRAWINGS, BUT THE DEMOLITION LEGEND (SHADE, PATTERN, OR NOTATION) INDICATES THE REMOVAL OF THE EXISTING ITEMS.
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6. THE OWNER (OR THEIR AUTHORIZED AGENT) IS RESPONSIBLE FOR REMOVING THE REMAINDER OF THE DEMOLITION WORK. CONSTRUCTION SHALL BE CLEANED UP TO THE SATISFACTION OF THE OWNER.

Scale

1" = 20' - 0"
GENERAL NOTES:

1. THE EXISTING CONDITIONS INDICATED ON THE DRAWINGS ARE TAKEN FROM THE BEST INFORMATION AVAILABLE AND CONSTRUED AS "AS-BUILT" CONDITIONS. THE INFORMATION IS SHOWN TO HELP ESTABLISH THE EXTENT OF THE NEW WORK. VERIFY ALL ACTUAL EXISTING CONDITIONS AT THE PROJECT SITE AND PERFORM THE WORK AS REQUIRED TO WORK INDICATED.

2. DASHED LINES INDICATED MECHANICAL OR ELECTRICAL FIXTURES, DEVICES OR EQUIPMENT THAT SHALL BE REMOVED. SOLID LINES REPRESENT EXITING EQUIPMENT OR MATERIAL TO REMAIN, EXCEPT WHERE OTHERWISE INDICATED.

3. DISCONNECT AND REMOVE ALL CIRCUITRY, DISCONNECTS, CONTROLLERS AND CONDUIT THAT BECOMES UNNECESSARY AS A RESULT OF THE REMOVAL OF FIXTURES, DEVICES OR EQUIPMENT INDICATED TO BE REMOVED. LABEL ALL CIRCUIT BREAKERS IN EXISTING PANELBOARDS NO LONGER IN USE AS SPARE. CAP ALL UNUSED CONDUIT AND WIRING BEYOND THE FLOOR LINE OR WALL LINE TO FACILITATE RESTORATION OF FINISH.

4. VERIFY AND RESTORE CONTINUITY OF ALL EXISTING CIRCUITRY INDICATED TO REMAIN IN USE. WHERE REMOVAL OF EXISTING WIRING INTERRUPTS ELECTRICAL CONTINUITY OF CIRCUITS WHICH ARE TO REMAIN, FURNISH AND INSTALL ALL REQUIRED CIRCUITRY, CONDUIT, JUNCTION BOXES, ETC. TO INSURE CONTINUED ELECTRICAL CONTINUITY.

5. DEMO EXTERIOR MOUNTED TRANSFORMER AND PANEL, DEMO BACK CONDUIT AND CAP AS NEEDED TO POUR NEW SLAB OVER EXTERIOR MOUNTED LIGHT FIXTURE, REPAIR LIGHT CIRCUIT AS NEEDED TO MAINTAIN EXISTING TO REMAIN CIRCUIT AS NEEDED TO MAINTAIN EXISTING TO REMAIN EXTERIOR LIGHTS ON CIRCUIT. DEMO ALL LIGHTS, POWER AND LOW VOLTAGE DEVICES ASSOCIATED WITH DEMO'D VESTIBULE AND EXTERIOR AWNING. REPAIR ALL CIRCUITS WITH EXISTING TO REMAIN ITEMS TO MAINTAIN ALL EXISTING DEVICES. SALVAGE AND TURN OVER TO OWNER ALL CARD READER, CAMERA AND LOW VOLTAGE DEVICES.

6. DEMO EXTERIOR MOUNTED TRANSFORMER AND PANEL, DEMO BACK CONDUIT AND CAP AS NEEDED TO POUR NEW SLAB OVER EXTERIOR MOUNTED LIGHT FIXTURE, REPAIR LIGHT CIRCUIT AS NEEDED TO MAINTAIN EXISTING TO REMAIN CIRCUIT AS NEEDED TO MAINTAIN EXISTING TO REMAIN EXTERIOR LIGHTS ON CIRCUIT. DEMO ALL LIGHTS, POWER AND LOW VOLTAGE DEVICES ASSOCIATED WITH DEMO'D VESTIBULE AND EXTERIOR AWNING. REPAIR ALL CIRCUITS WITH EXISTING TO REMAIN ITEMS TO MAINTAIN ALL EXISTING DEVICES. SALVAGE AND TURN OVER TO OWNER ALL CARD READER, CAMERA AND LOW VOLTAGE DEVICES.

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8. DEMO EXTERIOR MOUNTED TRANSFORMER AND PANEL, DEMO BACK CONDUIT AND CAP AS NEEDED TO POUR NEW SLAB OVER EXTERIOR MOUNTED LIGHT FIXTURE, REPAIR LIGHT CIRCUIT AS NEEDED TO MAINTAIN EXISTING TO REMAIN CIRCUIT AS NEEDED TO MAINTAIN EXISTING TO REMAIN EXTERIOR LIGHTS ON CIRCUIT. DEMO ALL LIGHTS, POWER AND LOW VOLTAGE DEVICES ASSOCIATED WITH DEMO'D VESTIBULE AND EXTERIOR AWNING. REPAIR ALL CIRCUITS WITH EXISTING TO REMAIN ITEMS TO MAINTAIN ALL EXISTING DEVICES. SALVAGE AND TURN OVER TO OWNER ALL CARD READER, CAMERA AND LOW VOLTAGE DEVICES.

9. VERIFY AND RESTORE CONTINUITY OF ALL EXISTING CIRCUITRY INDICATED TO REMAIN IN USE. WHERE REMOVAL OF EXISTING WIRING INTERRUPTS ELECTRICAL CONTINUITY OF CIRCUITS WHICH ARE TO REMAIN, FURNISH AND INSTALL ALL REQUIRED CIRCUITRY, CONDUIT, JUNCTION BOXES, ETC. TO INSURE CONTINUED ELECTRICAL CONTINUITY.

10. DEMO EXTERIOR MOUNTED TRANSFORMER AND PANEL, DEMO BACK CONDUIT AND CAP AS NEEDED TO POUR NEW SLAB OVER EXTERIOR MOUNTED LIGHT FIXTURE, REPAIR LIGHT CIRCUIT AS NEEDED TO MAINTAIN EXISTING TO REMAIN CIRCUIT AS NEEDED TO MAINTAIN EXISTING TO REMAIN EXTERIOR LIGHTS ON CIRCUIT. DEMO ALL LIGHTS, POWER AND LOW VOLTAGE DEVICES ASSOCIATED WITH DEMO'D VESTIBULE AND EXTERIOR AWNING. REPAIR ALL CIRCUITS WITH EXISTING TO REMAIN ITEMS TO MAINTAIN ALL EXISTING DEVICES. SALVAGE AND TURN OVER TO OWNER ALL CARD READER, CAMERA AND LOW VOLTAGE DEVICES.
BUS LOT WILL ACT AS CONTRACTOR STAGING AND PARKING AREAS

PROTECT EXISTING TREE

EQ TYP 5'-0"

STOOP 12'-0"

REF CIVIL DRAWINGS FOR SLOPE

AS201 J1 6'-0"

REF CIVIL DRAWINGS FOR SLOPE

A-2019015618 Kevin E. Nelson

DRAWN BY: DATE: REVISIONS:

CHECKED BY: Bob D Campbell
Structural Engineer
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Missouri State Certificate of Authority
Architecture # 0000161
Structure # 2006031333
Hollis + Miller Architects

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Please consider the environment before printing this.
FUTURE MAINTENANCE. TOPSOIL PH RANGE SHALL BE 5.5 TO 7.0. REFER TO SPECIFICATIONS FOR TOPSOIL REQUIREMENTS.

PROCUREMENT PROGRAM WITH A MYKE PRO 2 YEAR WARRANTY, THE LANDSCAPE CONTRACTOR'S DESIGNATION OF BOTH BOTANICAL AND COMMON NAME. LABEL EACH ORNAMENTAL GRASS, PLANTS, MULCH, STAKES, GUY WIRE, PRE-EMERGENT HERBICIDES, ETC. SHALL BE SUBSIDIARY TO INDIVIDUAL ROOT STIMULATOR SHALL BE APPLIED TO ALL PLANT MATERIALS WITH THE EXCEPTION OF LAWN AREAS.

CONSTRUCTION GRADING HAS NOT OCCURRED AND THE VIRGIN GRADE YET EXIST, THE TOPSOIL LAYER MAY GROUNDCOVER, PERENNIAL AND ANNUAL WITH THE LABEL PROVIDED BY THE ORIGINAL GROWER OF THE SLEEVE INSTALLATION. ALL SLEEVING REQUIRED UNDER HARDSCAPE SURFACES FOR THE IRRIGATION AREAS DENOTED AS 'FESCUE TURF' ARE TO RECEIVE SOD OR SEED AS FOLLOWS:

AMERICAN ASSOCIATION OF NURSERYMEN.

- 20% PREPARED ADDITIVES (BY VOLUME AS FOLLOWS):
- 80% TOPSOIL AS SPECIFIED

THE LANDSCAPE CONTRACTOR WILL BE RESPONSIBLE FOR THE COLLECTION, REMOVAL, AND PROPER WORK SIFTED SOIL OR FINE SAND INTO MINOR CRACKS BETWEEN PIECES OF SOD; REMOVE EXCESS. ALL TOP SOIL AND PLANTING BED SOIL MIX SHALL BE APPROVED BY OWNER'S REPRESENTATIVES PRIOR TO INSTALLATION. DRIVE POST 2' DEEP. KEEP STAKES PLUMB & SPACE EVENLY. INSTALL (1) 6' METAL T-POST PER CALIPER INCH/3' LENGTH/DIAMETER. PLACE IN VERTICAL PLUMB POSITION. PRUNE DAMAGED TWIGS AFTER PLANTING. PEEL BACK BURLAP FROM TOP OF SHRUB PLANTING ADJACENT TO CURB. BACKFILL WITH SOIL EXCAVATED SOIL. LUMPS, AND OTHER EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH. SUPPLEMENT WITH CONTENT; FREE OF STONES 1 INCH OR LARGER IN ANY DIMENSION AND OTHER EXTRANEOUS MATTER THAT MAY BE HARMFUL TO PLANT GROWTH OR WOULD INTERFERE WITH LAWN MAINTENANCE: BEGIN MAINTENANCE IMMEDIATELY AFTER EACH AREA IS PLANTED AND ESTABLISHMENT MORE THAN EVERY OTHER DAY.

OTHER EXTRANEOUS MATTER THAT MAY BE HARMFUL TO PLANT GROWTH OR WOULD INTERFERE WITH THE PLANS QUANTITIES SHALL BE USED. PLANT SCHEDULE QUANTITIES FOR INFORMATION ONLY. THE LANDSCAPE CONTRACTOR SHALL COORDINATE LAYOUT OF PLANTING BEDS, PLANT MASSING, STAKED AREAS, SHRUBS, TREES, TURF, GRADE, ETC. TO AVOID SMOTHERING SOD AND ADJACENT GRASS. DO NOT ALLOW EDGES OF SOD TO TURN UP.

THE PLANS QUANTITIES SHALL BE USED. PLANT SCHEDULE QUANTITIES FOR INFORMATION ONLY. THE LANDSCAPE CONTRACTOR SHALL COORDINATE LAYOUT OF PLANTING BEDS, PLANT MASSING, STAKED AREAS, SHRUBS, TREES, TURF, GRADE, ETC. TO AVOID SMOTHERING SOD AND ADJACENT GRASS. DO NOT ALLOW EDGES OF SOD TO TURN UP.

NOTES:

1. SHOVEL MULCH AND BLADE IN TO PROVIDE EROSION CONTROL.
2. REMOVE UPPER 1/3 OF WIRE BASKET IF PRESENT.
3. LAY 3" SAUCER AT BASE OF SHRUB.
4. REMOVE UPPER 1/3 OF WIRE BASKET IF PRESENT.
5. LAY 3" SAUCER AT BASE OF SHRUB.
6. PLUMB & SPACE EVENLY.
7. INSTALL (1) 6' METAL T-POST PER CALIPER INCH/3' LENGTH/DIAMETER. PLACE IN VERTICAL PLUMB POSITION.
8. PRUNE DAMAGED TWIGS AFTER PLANTING.
9. PEEL BACK BURLAP FROM TOP OF SHRUB PLANTING ADJACENT TO CURB.
10. BACKFILL WITH SOIL EXCAVATED SOIL.
11. LUMPS, AND OTHER EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH. SUPPLEMENT WITH CONTENT; FREE OF STONES 1 INCH OR LARGER IN ANY DIMENSION AND OTHER EXTRANEOUS MATTER THAT MAY BE HARMFUL TO PLANT GROWTH OR WOULD INTERFERE WITH LAWN MAINTENANCE: BEGIN MAINTENANCE IMMEDIATELY AFTER EACH AREA IS PLANTED AND ESTABLISHMENT MORE THAN EVERY OTHER DAY.

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Typical Two Stage Exterior Precast Expansion Joint

Control Joint Legend
- Precast Joint
- Structural Joint
- Flexible Expansion Joint

Sheet Keynote Legend
- Exterior Wall Louver - High
- Exterior Wall Louver - Low
- Exterior Wall Louver Jamb - High
- Exterior Wall Louver Jamb - Low
- Precast Panel Joint - High
- Precast Panel Joint - Low
- Precast Joint - no rating

Discovery Middle School Storm Shelter Addition
800 Midjay Dr, Liberty, MO 64068
AV/Acoustics Consultant
Avant Acoustics
660.429.1383 phone

Earl E. Peerbolte, PE
Peerbolte Creative
913.317.9390 phone
11827 W 112th Street, Suite 200
Surveying #2006027138
Engineering #2001009364
Civil Engineer
State Certificate of Authority #EGC000178
Mechanical, Electrical, & Plumbing
Smith & Boucher, Inc.
Kansas City, MO 64111
4338 Belleview Ave
State Certificate of Authority #000442
Structural Engineer
Bob D. Campbell
Architecture # 0000161
Structure # 2006031333
Missouri State Certificate of Authority

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2" THICK FINISHED FLOOR
GRID
REF: PLAN FOR ORIENTATION SET IN SEALANT ALIGN W/ BASE
08 71 00.A01 08 71 00.A01 09 64 66.A01 08 11 13.A01
STOOP SLAB
RE: STRUCT MIN 3" LAP REFER TO SOILS REPORT 03 30 00.A14 03 30 00.A15
SEAL TO FTG W/ MANUF'S TAPE

5" PRECAST KNOCKOUT FOR JAMB MOUNTED ACTUATOR FOR DAMPER, EA SIDE; RE: MEP.
GC TO COORD FINAL LOCATION.
PROVIDE COVER PLATE AT KNOCKOUT GYM RATED FLUSH SURFACE MTG GRILLE ON INTERIOR FACE. COVER FULL EXTENT OF PRECAST KNOCKOUT AND LOUVER ASSEMBLY AT ALL LOW LOUVER LOCATIONS.
INTERNAL CONTROL DAMPER; RE: MEP

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AP1 PTD P2

EXPOSED STRUCTURE & MECHANICAL, PAINTED P2

SCHEDULED WALL AND BASE FINISHES

AP2 TYP, RE: RCP

8'-0" 8'-0" 8'-0" 4'-0"

4'-0" 18'-0"

AP1 PAINTED P2

ALL EXPOSED SURFACES TO BE PAINTED AS DESIGNATED

RE: MATERIAL FINISH LEGEND

P2

P3

P5

AP1 / AP3 PAINT LEGEND

Peerbolte Creative

Theatrical Consultant
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Warrensburg, MO 64093
660.429.1383 phone

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Hollis + Miller Architects
JOB NO: A623
Discovery Middle School Storm Shelter Addition
LIBERTY PUBLIC SCHOOLS
800 Midjay Dr, Liberty, MO 64068

CONSTRUCTION DOCUMENTS

Sheet Name: A1
Scale: 1/4" = 1'-0"

Sheet Name: A11
Scale: 1/4" = 1'-0"

Sheet Name: H10
Scale: 1/4" = 1'-0"

INFORMATION SHOWN ON THIS SHEET APPLIES ALONE 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.
ROOM FINISH SCHEDULE

MATERIAL FINISH LEGEND

GENERAL FINISH NOTES

1. REFER TO PROJECT CONCEPT PLANS, REFLECTED CONCEPT PLANS, SURFACES, AND DETAILS FOR RECIPE OF ALL INTERIOR FINISHES.
2. DO NOT PAINT VERTICAL OR MANUFACTURED STONE, BRICK, GLAZED BLOCK OR ANY OTHER PREFINISHED MATERIALS.
3. DO NOT PAINT ALUMINUM OR OTHER NONMETALIC MATERIALS THAT ARE PREFINISHED.
4. PAINT ALL EXPOSED CEILINGS DEMONSTRATING AS VERTICAL OR OTHER NONVERTICAL OR nir spins that are prefinished.
5. PAINT ALL EXPOSED BLOCKS DEMONSTRATING AS VERTICAL OR OTHER NONVERTICAL OR nir spins that are prefinished.
6. PAINT ALL EXPOSED WOODWORK DEMONSTRATING AS VERTICAL OR OTHER NONVERTICAL OR nir spins that are prefinished.
7. PAINT ALL EXPOSED CONCRETE DEMONSTRATING AS VERTICAL OR OTHER NONVERTICAL OR nir spins that are prefinished.
8. PAINT ALL EXPOSED CONCERTE DEMONSTRATING AS VERTICAL OR OTHER NONVERTICAL OR nir spins that are prefinished.
9. PAINT ALL EXPOSED CONCERTE DEMONSTRATING AS VERTICAL OR OTHER NONVERTICAL OR nir spins that are prefinished.
10. PAINT ALL EXPOSED CONCERTE DEMONSTRATING AS VERTICAL OR OTHER NONVERTICAL OR nir spins that are prefinished.
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12. PAINT ALL EXPOSED CONCERTE DEMONSTRATING AS VERTICAL OR OTHER NONVERTICAL OR nir spins that are prefinished.
13. PAINT ALL EXPOSED CONCERTE DEMONSTRATING AS VERTICAL OR OTHER NONVERTICAL OR nir spins that are prefinished.
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16. PAINT ALL EXPOSED CONCERTE DEMONSTRATING AS VERTICAL OR OTHER NONVERTICAL OR nir spins that are prefinished.
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 FOR CONSTRUCTION

Please consider the environment before printing this.
A. All concrete is reinforced concrete unless specifically called out as unreinforced.

B. All concrete for columns shall develop a minimum ultimate compressive design strength of 4000 psi in 28 days, but not less than 560 pounds of cement shall be used per cubic yard of concrete regardless of strengths specified products using appropriate design procedures and/or standards as required by the engineer of record. Cost for shop drawings, fabrication, delivery, detailing, and erection shall be the responsibility of the contractor.

C. Spread footings, grade beams, and retaining walls are designed to bear on engineered fill and transmit these loads to the foundation through properly designed connections.

D. The lateral loads on the building both from wind and earthquake forces are to be determined in accordance with ASCE/SEI 7-16 and local building codes.

E. The contractor shall coordinate an on-site inspection of the structural steel with the building official before proceeding.

F. The special inspector shall submit a final signed report stating that the work requiring inspection has been completed to the satisfaction of the building official.

G. The use of fly ash is NOT permitted.

H. The contractor shall verify dimensions and conditions before construction and notify the owner, architect, and general contractor for coordination, bidding, and construction. Subcontractors may not reproduce these drawings for any purpose other than the construction of the project.

I. The contractor shall submit for approval shop drawings and related submittals (as indicated below) with respect to the ability of the structural system, loads, and structural members to transmit these loads to the foundation through properly designed connections.

J. The special inspector shall submit a final signed report stating that the work requiring inspection has been completed to the satisfaction of the building official.

K. All concrete shall be cast integrally with the structural steel beam, joists, or slab. The use of any integral material is not permitted. The concrete shall be placed in accordance with the approved shop drawings and specification requirements. The contractor shall submit for approval shop drawings and related submittals (as indicated below) with respect to the ability of the structural system, loads, and structural members to transmit these loads to the foundation through properly designed connections.

L. The contractor shall provide all necessary information and assistance to the special inspector in order to ensure compliance with the requirements of the amended IBC of Illinois.

M. The building official shall verify that the work performed is in accordance with the approved shop drawings and specification requirements. The contractor shall submit for approval shop drawings and related submittals (as indicated below) with respect to the ability of the structural system, loads, and structural members to transmit these loads to the foundation through properly designed connections.

N. The special inspector shall submit a final signed report stating that the work requiring inspection has been completed to the satisfaction of the building official.

O. The contractor shall verify dimensions and conditions before construction and notify the owner, architect, and general contractor for coordination, bidding, and construction. Subcontractors may not reproduce these drawings for any purpose other than the construction of the project.
1 TYPICAL BASE PLATE DETAIL

COLUMN BASE PLATE SCHEDULE

<table>
<thead>
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<td>8&quot;</td>
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BASE PLATE SHAPE (NOT TO SCALE)

EXTERIOR METAL STUD SCHEDULE

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<td>24</td>
</tr>
</tbody>
</table>

ASCE 7-16 BASIC LOAD-CASE LOW COMPONENT AND CLADDING WIND PRESSURE DIAGRAM NOTES:

1. 2.5" @ 7.5" OC WITH 1/2" WELD PER SCHEDULE.
2. PROVIDE REINFORCING PER SCHEDULE EACH WAY IN TOP OF FTG. AT ALL MOMENT FRAME AND BRACED BAY COLUMNS.
3. PROVIDE 2 ROWS OF ROW STUDS PER SCHEDULE.
4. STREET WIND PRESSURE
5. WIND LOADS CALCULATED ARE BASED ON THE PROVISIONS OF ASCE 7. VALUES SHOWN INCLUDE THE EFFECTS OF WIND PRESSURE.
6. ROOF ZONE 1:
7. ROOF ZONE 2:
8. ROOF ZONE 3:
9. ROOF ZONE 4:
10. DESIGN WIND PRESSURES (+) AND SUCTION (-) ARE DETERMINED AS ENCLOSED BUILDING WITH AN INTERNAL PRESSURE.
11. "a" SHALL BE THE LESSER OF 10 PERCENT OF THE LEAST HORIZONTAL DIMENSION OR 0.4x"h", LINEAR INTERPOLATION IS PERMITTED FOR TRIBUTARY AREAS BETWEEN VALUES GIVEN.
12. HOLES PER SCHEDULE WELD TO BASE PLATE W/ 1/4" FILLET WELD ALL HOLE PER SCHEDULE.
13. GROUT
14. "a" SHALL BE THE LESSER OF 10 PERCENT OF THE LEAST HORIZONTAL DIMENSION OR 0.4x"h", LINEAR INTERPOLATION IS PERMITTED FOR TRIBUTARY AREAS BETWEEN VALUES GIVEN.
**CMU WALL ELEVATION**

**SECTION**

**CMU WALL REINFORCING AT OPENINGS**

**LEGEND:**

- **3**
- **2**
- **1**
- **4**
- **5**
- **8**
- **6**
- **7**
- **9**
- **10**

**GENERAL CRITERIA:**

- Full height vertical bars as jamb reinforcing in first 2 cells adjacent to opening. Reinforce and spacing.
- Contractor shall coordinate and verify all control joint locations.

**#5 CONTINUOUS HORIZONTAL BARS AS SILL REINFORCING IN 8" COURSE BELOW OPENING (U.N.O.).**

**EXTRACTIONS:**

- Typical wide flange beam bearing on CMU (U.N.O.).
- Typical bonding details for non-load-bearing CMU walls that do not extend to deck between joists.
- Typical bonding details for non-load-bearing CMU walls that do extend to deck between joists.
- Typical bonding details for non-load-bearing CMU walls that do not extend to deck at each corner of walls.
- Typical bonding details for non-load-bearing CMU walls that do extend to deck at each corner of walls.

**NOTES:**

- Anchors bolts with grout & reinforce finger hook. Provide 12" embedment & 2"
- A) In the first 2 cells adjacent to each opening
- B) At each corner of walls
- C) In the beam bearing area
- D) At the top of wall
- E) In the first 2 cells adjacent to each opening
- F) At each corner of walls
- G) In the beam bearing area
- H) At the top of wall
- I) In the first 2 cells adjacent to each opening
- J) At each corner of walls
- K) In the beam bearing area
- L) At the top of wall

**MASONRY VERTICAL REINFORCING SCHEDULE**

- 1/2" = 1'-0"
- 1" = 1'-0"

- Walls parallel to joist
- Walls perpendicular to joist
- Typical bonding details for non-load-bearing CMU walls that do not extend to deck
- Typical bonding details for non-load-bearing CMU walls that do extend to deck

**MECHANICAL VIBRATOR (TYPICAL) USES**

- Use for mortar drops prior to grouting. Any grout voids shall be free of debris and grout.

**B E M C M M T**

- 48"oc MAX.
- 48"oc MAX.
- 48"oc MAX.

- Be used to reinforce any grout voids.

**TYPICAL CMU WALL REINFORCING AT OPENINGS**

- Wall parallel to joist
- Wall perpendicular to joist
- Typical bonding details for non-load-bearing CMU walls that do not extend to deck
- Typical bonding details for non-load-bearing CMU walls that do extend to deck

**TYPICAL BOND BEAM DETAIL AT CORNER OF CMU WALL**

- Typical bonding details for non-load-bearing CMU walls that do not extend to deck
- Typical bonding details for non-load-bearing CMU walls that do extend to deck

**TYPICAL REINFORCING CHAIR**

- Typical re-inforcing for non-load-bearing CMU walls that do not extend to deck

**TYPICAL WIDTH BOND BEAM REINFORCING DETAILS**

- Typical re-inforcing for non-load-bearing CMU walls that do not extend to deck
- Typical re-inforcing for non-load-bearing CMU walls that do extend to deck

**TYPICAL MASONRY REINFORCING NOTE**

- Typical re-inforcing for non-load-bearing CMU walls that do not extend to deck
- Typical re-inforcing for non-load-bearing CMU walls that do extend to deck

**TYPICAL BOND BEAM DETAIL AT CORNER OF CMU WALL**

- Typical re-inforcing for non-load-bearing CMU walls that do not extend to deck
- Typical re-inforcing for non-load-bearing CMU walls that do extend to deck

**TYPICAL MASONRY COLLAR**

- Typical re-inforcing for non-load-bearing CMU walls that do not extend to deck
- Typical re-inforcing for non-load-bearing CMU walls that do extend to deck

**TYPICAL STEEL DETAIL AT CMU WALL**

- Typical re-inforcing for non-load-bearing CMU walls that do not extend to deck
- Typical re-inforcing for non-load-bearing CMU walls that do extend to deck

**NOTES:**

- All masonry voids and bond beams to be grouted shall be free of mortar droppings prior to grouting. Any voids shall be rejected.
- Grout voids shall be free of debris and grout.
- All masonry voids and bond beams to be grouted shall be free of debris and grout.
- All masonry voids and bond beams to be grouted shall be free of debris and grout.
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- All masonry voids and bond beams to be grouted shall be free of debris and grout.
- All masonry voids and bond beams to be grouted shall be free of debris and grout.
2. Statement of Structural Special Inspections
   A. Type of Shelter: Community Tornado
   B. Design and construction for all components of the storm shelter areas of this project shall be in accordance with the requirements of the ICC 500-2014 and the related workmanship provisions of the International Building Code and the applicable workmanship provisions of the International Residential Code. The contractor's statement of responsibility shall cover all components of the storm shelter that have been inspected and labeled by an approved inspector.

3. Structural Observations:
   A. The structural design for this project is based on completion of special inspections as meeting the requirements of the applicable code and the ICC 500-2014. The following inspections and tests are required with the frequency (continuous or periodic):
      - Verification of Soils per Table 1705.6
      - Concrete Construction per Section 1705.3 and Table 1705.3
      - Design Mix Verification [Periodic]
      - Conforming Surfaces: 0.60 k/ft
      - Internal Pressure Coefficient, GCpi = +/- 0.55
      - Directionality Factor, Kd = 1.0
      - Topographic Factor, Kzt = 1.0
      - Risk Category: III
      - Internal Pressure Coefficient on the system or component. The contractor's statement of responsibility shall cover all components of the storm shelter that have been inspected and labeled by an approved inspector.

4. Description of Special Inspections:
   A. The structural design for this project is based on completion of special inspections as meeting the requirements of the applicable code and the ICC 500-2014. The following inspections and tests are required with the frequency (continuous or periodic):
      - Verification of Soils per Table 1705.6
      - Concrete Construction per Section 1705.3 and Table 1705.3
      - Design Mix Verification [Periodic]
      - Conforming Surfaces: 0.60 k/ft
      - Internal Pressure Coefficient, GCpi = +/- 0.55
      - Directionality Factor, Kd = 1.0
      - Topographic Factor, Kzt = 1.0
      - Risk Category: III
      - Internal Pressure Coefficient on the system or component. The contractor's statement of responsibility shall cover all components of the storm shelter that have been inspected and labeled by an approved inspector.

5. Acknowledgement of awareness of the special requirements contained in the contract documents

6. All other required soil inspections [Periodic]
   - Site Classification C
   - Directionality Factor, Kd = 1.0
   - Topographic Factor, Kzt = 1.0
   - Internal Pressure Coefficient, GCpi = +/- 0.55
   - Risk Category: III
   - Design Mix Verification [Periodic]

7. All other required soil inspections [Continuous]
   - Adhesive Anchors [Continuous]
   - Cast in Place Anchors [Periodic]
   - Mechanical Anchors [Periodic]
   - Reinforcing Steel Placement [Periodic]
   - Post Installed Anchors

8. Impact Resistance of Concrete Wall Assemblies
   - The impact resistance of concrete wall assemblies is based on the following assumptions:
      - Concrete wall assemblies are rated for impact resistance based on the minimum thickness specified in the construction documents.
      - The impact resistance of concrete wall assemblies is based on the minimum thickness specified in the construction documents.
      - The impact resistance of concrete wall assemblies is based on the minimum thickness specified in the construction documents.

9. Impact Resistance of Concrete Roof Assemblies
   - The impact resistance of concrete roof assemblies is based on the following assumptions:
      - Concrete roof assemblies are rated for impact resistance based on the minimum thickness specified in the construction documents.
      - The impact resistance of concrete roof assemblies is based on the minimum thickness specified in the construction documents.
      - The impact resistance of concrete roof assemblies is based on the minimum thickness specified in the construction documents.

10. Design rainfall intensity is based on the 100-year hourly rainfall rate indicated in the construction documents.
GENERAL NOTES:

REFER TO SHEET ME212A FOR GENERAL NOTES.

1. MECHANICAL PLAN NOTES:
   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.

TRUE NORTH

PROJECT NORTH

SCALE 1/16" = 1'-0"

REFERENCE SHEET ME212A

EXISTING 2 PSI NATURAL GAS METER.
DEVELOPED LENGTH = 850'
EXISTING GAS LOAD = 8200 MBH
NEW GAS LOAD = 1000 MBH
TOTAL LOAD = 9200 MBH

REFER TO SHEET ME212A FOR CONTINUATION
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.

2. SCALE: 1/8" = 1'-0"
GENERAL NOTES:

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, CEILINGS, WALLS, AND ALL OTHER TRADES TO PROVIDE FOR A COMPLETE AND WORKING SYSTEM.

CAREFULLY COORDINATE PIPE ROUTING WITH NEW AND EXISTING STRUCTURE AS WELL AS ALL OTHER TRADES TO MAINTAIN EQUIPMENT CLEARANCES AND DESIRED CEILING HEIGHTS. COORDINATE ALL PIPING PENETRATIONS WITH STRUCTURAL PRIOR TO CORE DRILLING.

WASTE PIPING SHALL BE SLOPED AT 1/8" PER FOOT FOR 3" AND LARGER PIPING AND ¼" PER FOOT FOR 2" AND SMALLER PIPING. STORM PIPING SHALL BE SLOPED AT 1/8" PER FOOT.

PROVIDE WASTE AND STORM CLEANOUTS AS REQUIRED PER CODE AND SPECIFICATIONS. MORE CLEANOUTS MAY BE REQUIRED THAN AS SHOWN ON PLANS.

PROVIDE SHUT OFF VALVES ABOVE ACCESSIBLE CEILING OR OTHER ACCESSIBLE LOCATION FOR ALL BRANCH PIPING AND INDIVIDUAL CONNECTIONS TO PLUMBING FIXTURES. WHERE STOPS ARE PROVIDED FOR INDIVIDUAL FIXTURES SHUT OFF VALVES ARE ALSO REQUIRED AT THE BRANCH CONNECTION. PLUMBING STOPS ARE NOT CONSIDERED A SUBSTITUTE FOR SHUT OFF VALVES.

AVOID ROUTING ANY PIPING THROUGH IT ROOMS OR ELECTRIC ROOMS. IN THE EVENT IT IS ABSOLUTELY NECESSARY, COORDINATE THE EXACT LOCATION SUCH THAT IT IS NOT DIRECTLY ABOVE ANY PANELS OR EQUIPMENT.

REFER TO RISER DIAGRAM FOR ADDITIONAL PLUMBING INFORMATION.

PROVIDE FIRESTOPPING AT PENETRATIONS OF ALL RATED WALLS. REFER TO CODE PLANS FOR LOCATIONS OF RATED WALLS.

ALL HOT WATER RECIRC BALANCE DEVICES SHALL BE 1 GPM CIRCUIT SETTERS UNLESS OTHERWISE NOTED.

PROVIDE WATER HAMMER ARRESTORS PER THE REQUIREMENTS OF THE SPECIFICATIONS AND PDI-WH201 FOR ALL FAST ACTING VALVES (FLUSH VALVES, SOLENOID FAUCETS, ETC).

PROVIDE ICC 500 PIPING SHROUD FOR ALL PENETRATIONS OF SHELTER 3" AND LARGER.
1. 3/4" COLD WATER UP TO ROOF HYDRANT.

2. 8" STORM AND 8" STORM OVERFLOW BETWEEN MEZZANINE AND FIRST FLOOR. ROUTE WITHIN CHASE.

3. 3/4" COLD WATER DOWN WITHIN CHASE AND THROUGH FLOOR.

4. 4" STORM AND 4" STORM OVERFLOW UP TO ROOF DRAIN.

5. 2" VENT BETWEEN MEZZANINE AND FIRST FLOOR.

6. 8" STORM OVERFLOW AND 3/4" COLD WATER DOWN WITHIN THE WALL/CHASE. PIPING SHOWN OFFSET FOR CLARITY. REFER TO THE PLUMBING RISER DIAGRAMS AND DETAILS FOR ADDITIONAL INFORMATION.
REFER TO E100 FOR GENERAL NOTES.

HP6-2(PART) 1
F F F

Q
PANEL. REFER TO THEATRICAL PLANS.

L1 L1
CIRCUIT FROM THEATRICAL RELAY PANEL.

PROVIDE 277:120 1.5KVA TRANSFORMER MOUNTED ON WALL IN MECH A107 TO TRANSFORM 277V CIRCUIT FROM INVERTER TO 120V FEED FOR EMERGENCY TRANSFER DEVICE, CIRCUIT

TO INV-4 CIRCUIT.

POWER FOR INTERNAL BLEACHER AISLE LIGHTING,

1P TOGGLE SWITCH FOR LOCAL DISCONNECT, MOUNT

ROOM AND PROVIDE NEW CONTACTOR CONNECTED TO

(2)#10,#10G,1/2"C

8'
4'

0'
8'

8/31/2023 1:15:46 PM
EXISTING MAIN SWITCHBOARD SWB1
NEW PANEL HP6 FEEDER, RE
ONE-LINE DIAGRAM.
ROUTE CONDUIT AS TIGHT TO
DECK AS POSSIBLE. PENTRATE
GYM WALL AS HIGH AS
POSSIBLE ON EXITS, PAINT
CONDUIT A TO MATCH CEILING.

DRAWN BY:  
DATE:  
REVISIONS:  
CHECKED BY:  

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Missouri State Certificate of Authority  
Architecture # 0000161  
Structure # 2006031333  
Hollis + Miller Architects

A1
OVERALL PLAN - LEVEL 1

OVERALL POWER PLAN - LEVEL 1
TRUE NORTH
PROJECT NORTH

LIBERTY SCHOOL DISTRICT
Discovery Middle School Storm Shelter Addition
800 Midjay Dr, Liberty, MO 64068
08.31.2023
MIDDLE SCHOOL ADDITION ELECTRICAL ONE LINE DIAGRAM

Panel Notes:

1. Plan notes:
   - EQUIPMENT AND THE BUILDING STRUCTURE. COORDINATE WITH ACOUSTICAL SPECIFICATIONS.
   - CONDUIT CONNECTIONS BETWEEN RESILIENTLY MOUNTED EQUIPMENT MUST BE LOCATED SO AS TO PREVENT RIGID CONNECTIONS TO THE EQUIPMENT SHALL BE MADE WITH LONG LENGTHS OF FLEXIBLE CONDUIT.
   - MINIMUM STAT DEFLECTION OF 0.15IN. PROVIDE SPRING DEPENDING ON MOUNTING CONDITIONS AND WITH PROVIDE TYPE C, D, OR E NEOPRENE VIBRATION ISOLATORS WHERE SUSPENDED FROM PANEL 'LP6' 75 KVA 'T-L6'
   - PANEL 'HP6' 125A 3P-75 KVA 'T-THB'
   - 200AF 3P
   - DIMMING RACK
   - REQUIREMENTS/SIZE.
   - REFER TO 'TYPICAL TRANSFORMER GROUNDING' DIAGRAM
   - WITHIN THE EXISTING A SWITCHBOARD LOCATED IN THE MAIN ELECTRICAL ROOM FOR THE BUILDING.
   - FURNISH AND INSTALL NEW 3P-600A CIRCUIT BREAKER

2. STRUCTURE WITH MINIMUM STAT DEFLECTION OF .5IN. ALL WITH ACOUSTICAL SPECIFICATIONS.

3. METAL UNDERGROUND WATER PIPE:
   - PIPE CLAMP
   - MATERIAL

4. CONDUCTORS AND CONDUIT
   - AA = ALUMINUM ALLOY 8000 SERIES CONDUCTORS
   - CU = COPPER CONDUCTORS

   - (5)#350, #4G, 1-1/4"C.
   - (3)#1 #6G, 1-1/4"C.
   - (3)#4, #8G., 1"C.
   - (4)#250, #2G., 2-1/2"C.
   - 2 SETS OF (4)#300, #1/0G., 2-1/2"C.

5. REF: NEC 250.52.A(1)

6. Smith & Boucher Inc.

7. Please consider the environment before printing this.

8. *SEE TABLE FOR SIZING
SECURITY DOOR ROUGH-IN - DOUBLE DOOR DETAIL

SECURITY DOOR ROUGH-IN - SINGLE DOOR DETAIL

STACKED TRANSFORMER MOUNTING DETAIL

NOTES:
1. PROVIDE EARTH GROUNDING AND ELECTRIC SERVICE TO THE SINGLE GANG BOX. PROVIDE 3/4" CONDUIT THRU SINGLE GANG BOX TO ELECTRIC MOUNTING BRACKET.
2. PROVIDE BUSHING ON CONNECTION BAR AT SINGLE GANG BOX.
3. PROVIDE CONDUIT RACEWAY TO DOOR FRAME (TYP.). COORDINATE PROVIDE CONDUIT RACEWAY TO EXIT SENSOR DEVICE ON LIST.
4. PROVIDE CONDUIT RACEWAY TO DOOR DEVICES AND CABLING BY SECURITY CONTRACTOR - REFER TO ACCESS CONTROL AND SECURITY EQUIPMENT COORDINATE EXACT REQUIREMENTS OF DOOR ACCESS SYSTEM WITH SECURITY CONTRACTOR PRIOR TO ROUGH-IN.
5. ALL CONDUIT SHALL HAVE BUSHINGS ON BOTH ENDS TO PREVENT DAMAGE TO CABLE.
6. SINGLE GANG BOX 7FT AFF PASS THRU FOR CABLE WITH WEATHER TIGHT COVER.
7. POWER TRANSFER (WHERE REQUIRED) FOR CALL BOX.
8. 2"X4"X3" D RECESSED BOX INSTALLED IN CEILING LOCATION. BOX WITH OWNER'S SECURITY CAMERA NOTE:
9. INSTALLER.
10. DATA CABLE TO I.T. ROOM DATA CONNECTION (BISCUIT) ABOVE ACCESSIBLE CEILING. LOCATE AS RECOMMENDED HEIGHT. IF NO MANUFACTURER'S MOUNT AT EQUIPMENT INTERCOM CALL STATION - REFER TO ACCESS CONTROL AND SECURITY EQUIPMENT SPECIFICATIONS.
11. STRUCTURAL ENGINEER CHECKED BY: MKEC Engineering, Inc.
12. MECHANICAL, ELECTRICAL & PLUMBING CERTIFICATES (WHERE REQUIRED) FOR CALL BOX.
13. DATA CABLE/JUMPER FROM CAMERA TO CAMERA INSTALLER.
14. TRANSFORMER LEG ISOLATION PAD AND RIGID STRUCTURES. BETWEEN TRANSFORMER ALL CONTACT SURFACES UTILIZE ISOLATION PAD FOR TRANSFORMER LEG. INTERIOR MEMBER TRAPEZE MOUNT SUPPORT (TYP.) 3/4" CONDUIT WITH PULL ROPE (TYPICAL) PASS THRU FOR CABLE WITH WEATHER TIGHT COVER.
15. EXTERIOR MOUNT DOOR CONTACT (TYP.) WITH OWNER'S SECURITY CAMERA TO ELEC/DATA A115 PROJECT NUMBER 2314702 Location: 103rd and West 25618  West 103rd St  Olathe, KS 66061

Security System Consultation:
Smith & Boucher Inc.
11827 W 112th Street, Suite 200
Lenexa, KS 66215
(913) 317-9390 phone
(913) 888-9111 phone
(660) 429-1383 phone
(913) 531-4144 phone
State Certificate of Authority #000442
State Certificate of Authority #EGC000178
Missouri State Certificate of Authority #2001009364
Civil Engineer
Mechanical, Electrical & Plumbing
Surveying: 2006027138
Structure # 2006031333
Architecture # 0000161

Theatrical Consultant
Peerbolte Creative
800 Midjay Dr, Liberty, MO 64068
(913) 531-4144 phone
(913) 345-2127 phone
Missouri State Certificate of Authority #2006027138
State Certificate of Authority #EGC000178
Mechanical, Electrical & Plumbing
Civil Engineer
Surveying: 2006027138
Structure # 2006031333
Architecture # 0000161

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A M C G K R J

CONNECTION DESIGNATOR.

AC POWER CORD.

LOCATION.

CIRCUIT CONTINUED ON DIFFERENT SHEET OR AT OTHER DIAGRAM CONTINUATION OF EQUIPMENT OR LOUDSPEAKER CIRCUITS. REFER TO

MALE RJ45 CONNECTOR.

FEMALE RJ45 CONNECTOR.

MALE SPEAKON CONNECTOR.

FEMALE SPEAKON CONNECTOR.

MALE HDMI CONNECTOR.

FEMALE HDMI CONNECTOR.

FEMALE HD-15 CONNECTOR.

RCA PHONO PLUG.

PHONE JACK, SIZE AS INDICATED ON THE DRAWINGS.

R = RED

G = GREEN

SCREW TERMINAL ON BARRIER STRIP. INSTALLED IN TERMINATION MULTIPLE POWER TAP VALUES ARE SHOWN FOR LINE MATCHING LOUDSPEAKER EACH WITH LOUDSPEAKER LINE MATCHING TRANSFORMER AS INDICATED.

WIRES FOR SIGNALS OVER FIBER CABLES. CABLE OR SIGNAL TYPE 16. ALL MOUNTING HEIGHTS ARE TO THE CENTER OF THE BOX.

14. BOXES INDICATED TO BE WALL MOUNTED AT 48" AFF SHALL BE MOUNTED TO MATCH OTHER ELECTRICAL SWITCHES AND CONTROL PLATES.

13. MOUNT WALL BOXES AT 18" AFF TO MATCH ELECTRICAL WALL MOUNTED BOXES, UNLESS OTHERWISE NOTED.

8. CONTRACTOR INSTALLING CONDUIT SYSTEM SHALL FURNISH AND INSTALL BLANK COVERS ON ALL BOXES INSTALLED BUT NOT USED FOR SYSTEM CONNECTIONS.

7. CONDUIT SHALL NOT EXCEED 100 LINEAR FEET OR THE EQUIVALENT OF THREE 90 DEGREE BENDS BETWEEN JUNCTION BOXES.

5. CONDUIT SHALL BE MINIMUM 0.75-INCH DIAMETER. MEASURED PULL STRING SHALL BE FURNISHED, INSTALLED, AND SECURED IN ALL CONDUIT RACEWAYS.

4. COORDINATE ALL WORK WITH ARCHITECTURAL, ELECTRICAL, AND TECHNOLOGY PLANS.

3. VERIFY LOCATIONS AND TYPES OF ALL EXISTING CONDUIT AND BOXES (IF ANY) PRIOR TO STARTING WORK.

2. THIS FACILITY IS A NEW ADDITION TO AN EXISTING STRUCTURE. COORDINATE MOUNTING CONDITIONS WITH OTHER TRADES.

1. THE CHAIN OF SYSTEMS AS BUILT AND DESIGNATED ON THESE SHEETS SHALL BE FULLY INTEGRATED AND MODULAR UNDER THESE CONSTRUCTION SPECIFICATIONS.

- Avant Acoustics
- Peerbolte Creative

Job No: 23018

Sheet Where Reference Occurs.

Construction Documents

Discovery Middle School Storm Shelter Addition

100 Midjay Dr, Liberty, MO 64068

State Certificate of Authority #000442

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AV001

AV GENERAL NOTES AND LEGENDS
Discovery Middle School Storm Shelter Addition

Library School District
800 Midjay Dr, Liberty, MO 64068

AV Reflected Ceiling Plan - Level 1 - Area A

Sheet Keynote Legend

Sheet A121A

Drawing Date: 08.31.2023

By: DJW

Construction Documents

Liberty School District
180 Midjay Dr, Liberty, MO 64068

Scale: 1/8" = 1'-0"
Type 1 Loudspeaker Mounting Detail

Prior to ordering screen, exact mounting location required. Black drop orientation required by mounting screen. Motorized surface as required. Behind gypsum board directly to proscenium.

Mounting Option 1: Attach ceiling. Mounting hardware to match threaded rod. Provide Unistrut roof structure above.

Mounting Option 2: Suspend from loudspeaker. Type 1 two-way concealed in ceiling. Conduit to and from loudspeaker.

4' - 6" loudspeaker below. Loudspeaker cabling along structure to and from adjacent loudspeakers. Paint to roof deck in areas without gypsum board.

1" = 1'-0" scale. Paint all mounting hardware as required. Paint wire rope and other mounting hardware.

Concrete tee reinforcement.

Installation at roof deck. Neatly exposed 2-gang ceiling box as required. Paint all loudspeakers (unless an enclosure color is specified otherwise) and mounting hardware. Two coats of satin enamel, color as specified. Equalization activities. Reorient loudspeakers if so requested by manufacturer.

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

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AV501
GENERAL NOTES:

1. PROVIDE NFPA 13 COMPLIANT SPRINKLER SYSTEM FOR THE ADDITION.
2. PROVIDE ALL SPRINKLER HEADS, PIPING, AND ACCESSORIES TO MEET THE REQUIREMENTS OF NFPA 13.
3. CAREFULLY COORDINATE ALL SPRINKLER HEAD TYPES, COLOR, AND EXPOSED PIPING LOCATIONS WITH THE ARCHITECT FOR DESIRED AESTHETICS OF THE SPACES PRIOR TO INSTALLATION.
4. REFER TO ARCHITECTURAL RCP LAYOUT FOR CEILING TYPES AND SPACES OPEN TO THE STRUCTURE.
5. GYP. CEILINGS REQUIRE CONCEALED HEADS WITH COVER. WHITE COLOR FOR WHITE CEILINGS. PROVIDE CUSTOM COLOR BY ARCHITECT.
6. WOOD AND OTHER SPECIALTY CEILINGS SHALL USE CONCEALED HEADS WITH CUSTOM FINISH BY ARCHITECT.
7. ACT CEILINGS PROVIDE SEMI-RECESSED PENDANT HEADS.
8. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
9. CAREFULLY COORDINATE PIPE ROUTING WITH STRUCTURE AS WELL AS ALL OTHER TRADES TO MAINTAIN EQUIPMENT CLEARANCES AND DESIRED CEILING HEIGHTS.
10. COORDINATE ALL PIPING PENETRATIONS WITH STRUCTURAL PRIOR TO CORE DRILLING.
11. PROVIDE FIRESTOPPING AT PENETRATIONS OF ALL RATED WALLS. REFER TO CODE PLANS FOR LOCATIONS OF RATED WALLS.
12. PROVIDE ICC 500 PROTECTION SHROUD FOR ALL PENETRATIONS OF THE ICC 500 SHELTER WALLS.

PLAN NOTES:

1. PROVIDE SPRINKLER SYSTEM FOR BUILDING ADDITION PER NFPA 13 REQUIREMENTS. PROVIDE ALL NECESSARY ACCESSORIES AND REQUIREMENTS FOR NEW ZONE.
2. CONNECT TO THE EXISTING FIRE PROTECTION SYSTEM.
3. MODIFY THE EXISTING SPRINKLER SYSTEM AS REQUIRED TO ACCOMMODATE ROOM AND CEILING CHANGES.
4. 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.
5. COORDINATE ALL PIPE ROUTING AND SPRINKLER LOCATIONS WITH ARCHITECT AND THEATRICAL COMPONENTS.
Please consider the environment before printing this.

1. **SCALE**: 24" = 1'

## TWO OUTLET BOX

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>DEVICE TYPE</th>
<th>ID #</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>SINGLE BUTTON ENTRY STATION</td>
<td>B1</td>
<td>E-1 ENTRY</td>
</tr>
<tr>
<td>A2</td>
<td>SINGLE BUTTON ENTRY STATION</td>
<td>B2</td>
<td>E-2 ENTRY</td>
</tr>
<tr>
<td>A3</td>
<td>SINGLE BUTTON ENTRY STATION</td>
<td>B3</td>
<td>E-3 ENTRY</td>
</tr>
<tr>
<td>A4</td>
<td>SINGLE BUTTON ENTRY STATION</td>
<td>B4</td>
<td>E-4 ENTRY</td>
</tr>
</tbody>
</table>

## LCD CONTROL PANEL

- **LOCATION**: A1
- **DEVICE**: LCD CONTROL PANEL
- **ID #**: D1
- **DESCRIPTION**: CONTROL PANEL

## FLUSH WALL

- **LOCATION**: A1
- **DEVICE**: FLUSH WALL
- **ID #**: F1
- **DESCRIPTION**: WALL

## THEATRICAL DEVICES

### E1 - # SINGLE BUTTON ENTRY STATION
- **LOCATION**: N1
- **DEVICE**: SINGLE BUTTON ENTRY STATION
- **ID #**: N1
- **DESCRIPTION**: ENTRY

### F1 - # FIVE BUTTON ENTRY STATION
- **LOCATION**: K1
- **DEVICE**: FIVE BUTTON ENTRY STATION
- **ID #**: K1
- **DESCRIPTION**: ENTRY

### LCD PANEL
- **LOCATION**: D1
- **DEVICE**: LCD PANEL
- **ID #**: D1
- **DESCRIPTION**: PANEL

### DMX IN
- **LOCATION**: M1
- **DEVICE**: DMX IN
- **ID #**: M1
- **DESCRIPTION**: IN

### DMX OUT
- **LOCATION**: M2
- **DEVICE**: DMX OUT
- **ID #**: M2
- **DESCRIPTION**: OUT

### FLUSH BOX
- **LOCATION**: A1
- **DEVICE**: FLUSH BOX
- **ID #**: A1
- **DESCRIPTION**: BOX

### FLUSH WALL
- **LOCATION**: A1
- **DEVICE**: FLUSH WALL
- **ID #**: F1
- **DESCRIPTION**: WALL

### THROUGH HOLE MOUNT
- **LOCATION**: A1
- **DEVICE**: THROUGH HOLE MOUNT
- **ID #**: A1
- **DESCRIPTION**: MOUNT

### DESIGNATION - LOCATION

- **LOCATION**: A1
- **DEVICE**: DESIGNATION

### LAMICOID LABEL
- **LOCATION**: A1
- **DEVICE**: LAMICOID LABEL

### MOUNTING
- **LOCATION**: A1
- **DEVICE**: MOUNTING

### METHOD
- **LOCATION**: A1
- **DEVICE**: METHOD

### LOCATION
- **LOCATION**: A1
- **DEVICE**: LOCATION

### TYPE
- **LOCATION**: A1
- **DEVICE**: TYPE

### TYPE
- **LOCATION**: A1
- **DEVICE**: TYPE

### WIRING
- **LOCATION**: A1
- **DEVICE**: WIRING

### WIRE
- **LOCATION**: A1
- **DEVICE**: WIRE

### PRESET 1
- **LOCATION**: A1
- **DEVICE**: PRESET

### PRESET 2
- **LOCATION**: A1
- **DEVICE**: PRESET

### PRESET 3
- **LOCATION**: A1
- **DEVICE**: PRESET

### PRESET 4
- **LOCATION**: A1
- **DEVICE**: PRESET
# RIGGING SCHEDULE

**TH101**

**PEERBOLTE**
**WARRENSBURG MO, 64093**
**PHONE (660)429-1383**
**FAX (660)429-3666**

**CREATIVE**
**109 E PINE STREET**
**PO BOX 754**

**THEATRICAL PLANNING AND DESIGN**
**www.peerbolte.com**

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## DRAWN BY:

### DATE:

### REVISIONS:

## CHECKED BY:

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**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.**

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### SHEET KEYNOTE LEGEND

**A** **B** **C** **D** **E** **F** **G** **H** **I** **J** **K** **L** **M** **N** **O** **P** **Q** **R** **S** **T** **U** **V** **W** **X** **Y** **Z**

### KEY PLAN

Please consider the environment before printing this.

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**SCJ**

**SCJ**

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### RIGGING SCHEDULE

| ITEM | SHEET | DRAWN | DATE | DESCRIPTION | LINE SET | LINE SET LENGTH | CURTAIN WIDTH | CURTAIN HEIGHT | CURTAIN COLOR | CURTAIN FABRIC | CURTAIN PATTERN | CURTAIN GDP | TRACK # OF BATTEN LENGTH | LEG IN FRONT CENTER LINE | TRACK ORIENTATION | STACKING | NOTES | HANGING | ESTIMATED LOAD |
|------|-------|-------|------|-------------|----------|----------------|---------------|----------------|---------------|----------------|-----------------|-------------|--------------|----------------|---------------|---------|--------|--------|-------------|--------------|
| 1    | 12"   | Main Valance | 47" | 29" | 75% | 22" Enlarged | 133 | 27" | 47" PIPE BATTEN | - | Tie to Batten | - | - | Dead Hanging | - | Dead Hanging | 300# |
| 2    | 18"   | Grand Drapery | 66" | 25" | 75% | 24" Enlarged | 133 | 36" | 47" PIPE BATTEN | - | Tie to Batten | - | - | Dead Hanging | - | Dead Hanging | 1,200# |
| 3    | 28"   | 1st Leg | 28" | 22" | 50% | 15" Black | 133 | 36" | 47" PIPE TRACK | - | - | - | - | Dead Hanging | - | Dead Hanging | 300# |
| 4    | 36"   | 1st Border | 47" | 6" | 50% | 15" Black | 133 | 36" | 47" PIPE BATTEN | - | Tie to Batten | - | - | Dead Hanging | - | Dead Hanging | 300# |
| 5    | 94"   | 2nd Electric | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6    | 90"   | Scenery Track | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 7    | 86"   | 3rd Leg | 47" | 6" | 50% | 15" Black | 133 | 36" | 47" PIPE BATTEN | - | Tie to Batten | - | - | Dead Hanging | - | Dead Hanging | 300# |
| 8    | 98"   | 3rd Border | 28" | 23" | 50% | 15" Black | 133 | 36" | 47" PIPE BATTEN | - | Tie to Batten | - | - | Dead Hanging | - | Dead Hanging | 300# |
| 9    | 108"  | 2nd Electric | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10   | 120"  | Mid Traveler | 28" | 23" | 50% | 15" Black | 133 | 36" | 47" PIPE BATTEN | - | Tie to Batten | - | - | Dead Hanging | - | Dead Hanging | 1,200# |
| 11   | 136"  | 3rd Border | 47" | 5" | 50% | 15" Black | 133 | 36" | 47" PIPE BATTEN | - | Tie to Batten | - | - | Dead Hanging | - | Dead Hanging | 300# |
| 12   | 148"  | Scenery Track | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 13   | 158"  | 4th Leg | 28" | 23" | 50% | 15" Black | 133 | 36" | 47" PIPE TRACK | - | - | - | - | Dead Hanging | - | Dead Hanging | 300# |
| 14   | 174"  | 4th Border | 47" | 6" | 50% | 15" Black | 133 | 36" | 47" PIPE BATTEN | - | Tie to Batten | - | - | Dead Hanging | - | Dead Hanging | 300# |
| 15   | 180"  | Scenery Track | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 16   | 194"  | 5th Leg | 28" | 23" | 50% | 15" Black | 133 | 36" | 47" PIPE BATTEN | - | Tie to Batten | - | - | Dead Hanging | - | Dead Hanging | 300# |
| 17   | 214"  | Scenery Track | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18   | 228"  | 3rd Electric | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 19   | 240"  | Upstage Traveler | 36" | 20" | 50% | 15" Black | 133 | 36" | 47" PIPE BATTEN | - | Tie to Batten | - | - | Dead Hanging | - | Dead Hanging | 1,200# |
| 20   | 250"  | Scenery Track | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 21   | 270"  | Cyc | 48" | 22" | 50% | 15" Grey | 133 | 36" | 47" PIPE TRACK | - | - | - | - | Dead Hanging | - | Dead Hanging | 500# |

**SCOREBOARD CURTAIN**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>SCOREBOARD</th>
<th>W&quot;</th>
<th>H&quot;</th>
<th>MULT</th>
<th>SHAPE</th>
<th>TREE</th>
<th>155&quot;</th>
<th>LEADER</th>
<th>155&quot; SPECIFIC</th>
<th>-</th>
<th>DEAD LINE</th>
<th>HOSE LEFT</th>
<th>OFF</th>
<th>OP</th>
<th>100&quot; OFF</th>
<th>MOUNT 3&quot;</th>
<th>ENDS</th>
<th>LEFT</th>
<th>WALL MOUNT</th>
<th>200#</th>
</tr>
</thead>
</table>

*above stage floor, to centerline of electric lower batten, or bottom of curtain. all dimensions are approximate. actual sizes and elevations shall be determined by existing conditions and field measurements.*