AVCRAD, SPRINGFIELD, MISSOURI

OWNER: STATE OF MISSOURI
MICHAEL L. PARSON, GOVERNOR
MISSOURI NATIONAL GUARD
OFFICE OF THE ADJUTANT
GENERAL
FACILITIES MANAGEMENT OFFICE

PROJECT MANAGEMENT: STATE OF MISSOURI OFFICE OF ADMINISTRATION (OA)-DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION (FMDC)

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MISSOURI C.O.A. #001592

ARCHITECT: SAPP DESIGN ARCHITECTS
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Springfield, MO 65804
PARKING SUMMARY:

OFFICE OF THE
ADJUTANT GENERAL
MISSOURI NATIONAL GUARD
FACILITIES DIVISION

PROFESSIONAL ENGINEER - RYAN V. JEPPSON
MISSOURI PE # 2012024241

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1301 Burlington Street
North Kansas City, MO 64116

Missouri Certificate of Authority #0001592

Olsson - Engineering

TASMG
CENTER
MISSOURI NATIONAL GUARD
SPRINGFIELD, MISSOURI

95% CONSTRUCTION
DOCUMENTS SUBMITTAL
AVCRAD SITE
1107TH THEATER AVIATION
SUSTAINMENT MAINTENANCE
GROUP
READINESS

Olsson Project #018-2772
MISSOURI
ONE CALL SYSTEM
1-800-DIG-RITE
OR
811
www.mo1call.com

Sapp Design Associates Architects, P.C.
Missouri State Certificate of Authority #000607
Missouri LA Cert. of Auth. #2005000285

RPJ
26 FEBRUARY 2020

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NATIONAL GUARD BUREAU PROJECT #290186
ASSET  #8136270008
SITE  #9019
CHECKED BY:
DESIGNED BY:
REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUED DATE:
SHEET TITLE:

DRAWN BY:
JLR
JKE

SHEET NUMBER:

MISSOURI NATIONAL GUARD PROJECT #T1809-01

PAVEMENT MARKING NOTES:

PER UFC 4-010-01, 12 DECEMBER 2018 STANDARD 1, STANDOFF DISTANCE, SECTION 3-2, "STANDOFF DISTANCES ONLY APPLY TO DISTANCES TO INSTALLATION PERIMETERS FOR NEW CONSTRUCTION AND ADDITIONS TO EXISTING BUILDINGS THAT ARE REQUIRED TO COMPLY WITH THESE STANDARDS."

PER STANDARD 2, UNOBSTRUCTED SPACE, SECTION 3-3, "WHERE BUILDINGS ARE REQUIRED TO MEET THESE STANDARDS, THE UNOBSTRUCTED SPACE MUST EXTEND 33 FEET OUT FROM THE BUILDING, OR TO THE INSTALLATION PERIMETER AS ESTABLISHED BY STANDARD 1."
FOR INFORMATION ONLY

INSTALLATION BY CITY UTILITIES

REFER TO ALLOWANCE SECTION 012100

---

INSTALLATION
BY
CITY UTILITIES
---
REFER TO 
ALLOWANCE
SECTION
012100
1. ALL DIMENSIONS INDICATED IN CONTRACT DOCUMENTS ARE FROM FACE OF STUD TO FACE OF STUD FOR INTERIOR PARTITIONS, FACE OF EXISTING STRUCTURE OR FINISH, FACE OF CONCRETE OR BLOCK, OR TO STRUCTURAL LINE, EXCEPT AS NOTED OTHERWISE. EXTERIOR DIMENSIONS ARE TO FACE OF CMU.

2. DIMENSIONS OF EXISTING STRUCTURE, ETC. ARE ± AND SHOULD BE FIELD VERIFIED PRIOR TO COMMENCEMENT OF WORK AND ARCHITECT NOTIFIED OF ANY DISCREPANCIES.

GENERAL NOTES

1/16" = 1'-0"

OVERALL FIRST FLOOR PLAN

DRAWN BY:

DESIGNED BY:

CHECKED BY:

ISSUED DATE:

REVISION:

DATE:

REVISION:

DATE:

REVISION:

DATE:

REVISION:

DATE:

OF SHEETS

SHEET NUMBER:

SHEET TITLE:

TASMG READINESS CENTER

MISSOURI NATIONAL GUARD PROJECT #T1809-01

FACILITIES DIVISION

MISSOURI NATIONAL GUARD

SPRINGFIELD, MISSOURI

SUSTAINMENT MAINTENANCE GROUP

AVCRAD SITE

1107TH THEATER AVIATION

SURVIVABILITY/MISSION

TASMG

READINESS CENTER

ARCHITECT OF RECORD

M-I E S S O U R I  A R C H I T E C T S

M-I S S O U R I  A R C H I T E C T S

MICHAEL JAMES SAPP

MISSOURI STATE CERTIFICATE OF AUTHORITY #000607

ARCHITECT OF RECORD

SAPP DESIGN ASSOCIATES, ARCHITECTS, P.C.

MISSOURI STATE CERTIFICATE OF AUTHORITY #0001592

ARCHITECT OF RECORD

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# Door Elevations

## Door Frame Elevations

## Window Elevations

---

### Door Schedule

<table>
<thead>
<tr>
<th>Door No.</th>
<th>Comp.</th>
<th>Width</th>
<th>Height</th>
<th>Thck.</th>
<th>Type</th>
<th>Mull.</th>
<th>Fin.</th>
<th>Finish Floor</th>
<th>Comments</th>
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<tbody>
<tr>
<td>102b</td>
<td>PAIR</td>
<td>6' - 0&quot;</td>
<td>7' - 0&quot;</td>
<td>1 3/4&quot;</td>
<td>F</td>
<td>WD</td>
<td>1</td>
<td>HM</td>
<td>1/A402 2/A402 N.A.</td>
</tr>
<tr>
<td>107h</td>
<td>SINGLE</td>
<td>3' - 0&quot;</td>
<td>7' - 0&quot;</td>
<td>1 3/4&quot;</td>
<td>F</td>
<td>WD</td>
<td>1</td>
<td>HM</td>
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<td>SINGLE</td>
<td>3' - 0&quot;</td>
<td>7' - 0&quot;</td>
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<td>7' - 0&quot;</td>
<td>1 3/4&quot;</td>
<td>F</td>
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<td>WD</td>
<td>2</td>
<td>HM</td>
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<td>2&quot;</td>
<td>SS</td>
<td>1</td>
<td>SS</td>
<td>11/A402 12/A402 13/A402</td>
<td>OVERHEAD COILING COUNTER DOOR - SEE SPECS</td>
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<td>HM</td>
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<tr>
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<td>7' - 0&quot;</td>
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<td>AL1</td>
<td>AL/GLASS</td>
<td>SF6</td>
<td>AL</td>
<td>5/A402 6/A402 N.A.</td>
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<td>200</td>
<td>DOUBLE EGRESS DOORS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>104</td>
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<td>7' - 0&quot;</td>
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<td>N</td>
<td>WD</td>
<td>1</td>
<td>HM</td>
<td>1/A402 2/A402 N.A.</td>
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<tr>
<td>103</td>
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<td>N</td>
<td>WD</td>
<td>1</td>
<td>HM</td>
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<tr>
<td>124</td>
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<td>F</td>
<td>HM</td>
<td>2</td>
<td>HM</td>
<td>3/A402 4/A402</td>
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<td>122</td>
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<td>7' - 0&quot;</td>
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<td>F</td>
<td>HM</td>
<td>2</td>
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<td>3/A402 4/A402 N.A.</td>
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<td>7' - 0&quot;</td>
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<td>WD</td>
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<td>3/A402 4/A402 N.A.</td>
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<td>116</td>
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<td>7' - 0&quot;</td>
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<tr>
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<td>WD</td>
<td>2</td>
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<td>113</td>
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<td>105</td>
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<td>3' - 0&quot;</td>
<td>7' - 0&quot;</td>
<td>1 3/4&quot;</td>
<td>N</td>
<td>WD</td>
<td>1</td>
<td>HM</td>
<td>1/A402 2/A402 N.A.</td>
</tr>
</tbody>
</table>

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### General Notes

- Door schedule includes single and double doors.
- Door heights range from 7'-0" to 8'-0".
- Door widths range from 3'-0" to 4'-0".
- Door frame thickness is 1 3/4".
- DOOR MATERIALS: HOLLOW METAL/ALUMINIUM/SC WOOD/ALUMINUM
- GLASS SCHEDULE: TINTED GLASS (CLEAR), FULLY TEMPERED (TINTED, REFLECTIVE)

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### Door Details

- SCHEDULE DOOR ELEVATIONS
- F3: SHOW ALL DOORS AND FRAME pivot points
- F1: SHOW ALL DOORS
- SS: STAINLESS STEEL
- AL1: ALUMINIUM/ GLASS
- SF6: ALUMINIUM/ GLASS
- WD: WIRE MESH
ALUMINUM STOREFRONT FRAME ELEVATIONS

ALUMINUM CURTAINWALL FRAME ELEVATIONS
2" RIGID INSUL SLAB. SEE WATERTABLE. ANCHOR CURTAINWALL; SEE A401

12 JAMB DETAIL

15 BILL DETAIL

3" = 1'

13 HEAD DETAIL

10 JAMB DETAIL

5 BILL DETAIL

4 JAMB DETAIL

8 JAMB DETAIL

1 HEAD DETAIL

7 HEAD DETAIL

6 HEAD DETAIL

11 HEAD @ CMU & CONC WALLS

5/8" GYP BD OVER 6" MTL STUDS AT 16"oc

MIN R

SHIM/BLOCKING AS REQUIRED

PERIMETER OF OPENING

CONT CORNER BEAD ALONG

SEALANT CONT ALONG PERIMETER

SUB

ALUM STOREFRONT; SEE A401

4"x8"x16" CMU CORNER BLOCK

PREFIN ALUM SILL EXTENSION

AROUND AND EACH SIDE

SEALANT & BACKER ROD ALL AROUND AND

SEALANT & BACKER

CONT CORNER BEAD

WRAP AROUND AND EACH SIDE

PREFIN METAL SOFFIT PANEL OVER

MTL STUD MFR/SUPPLIER BOX HEADER BY LT GA

MTL STUD MFR

5/8" GYP BD OVER 3 5/8"

GA MTL STUD MFR

5/8" PLY WOOD

GLU STRIPS OVER VENEER

4"x8"x16" CMU VENEER

THRU CAST STONE SILL

4"x8"x16" CMU VENEER BEYOND

PREFIN BRAKE MTL FLASHING

COLOR OF ADJACENT

GALV AND PAINT TO MATCH

(8" MIN BRG AT EACH JAMB)

L5"x3 1/2"x5/16" (L1H) LINTEL

THRU DRAINAGE SYSTEM

4"x8"x16" CMU VENEER

WALL TIES AT

VENEER WITH

4"x8"x16" CMU

PREFIN HORIZ METAL

BATTEN SEAM METAL ROOF (VERTICAL INSTALL)

SEE A401

PREFIN BRAKE MTL CORNER

BATTEN SEAM METAL ROOF (VERTICAL INSTALL)

SEE A401

PREFIN HORIZ METAL

BATTEN SEAM METAL ROOF (VERTICAL INSTALL)

SEE A401

PREFIN HORIZ METAL

BATTEN SEAM METAL ROOF (VERTICAL INSTALL)
5  STAIR LANDING @ END WALL
4  STAIR TOE @ LANDING
3  STAIR HEAD @ LANDING
2  STAIR HEAD AT SECOND FLOOR
1  SECTION

STAIR TOE @ LANDING

1 1/2" = 1'

STAIR LANDING

PARTITION TYPES
WALL; SEE FLOOR PLANS FOR CAST IN PLACE CONCRETE & BACKER ROD

STRUCTURAL METAL DECK PER CONC SLAB OVER LEG STRINGERS
HSS12x2 DOG PER STRUCTURAL EMBED PLATE & STUD
SEE STRUCTURAL JOISTS & BEAM;

STEEL PAN & RISER CONC FILLED LEG STRINGERS
HSS12x2 DOG

SEE STRUCTURAL JOISTS & BEAM;

3  STAIR HEAD @ LANDING

1 1/2" = 1'

STAIR LANDING

STAIR HEAD AT SECOND FLOOR

1 1/2" = 1'

STAIR LANDING @ CENTER STRINGERS

1 1/2" = 1'

STAIR LANDING

STAIR TOE @ LANDING

1 1/2" = 1'

STAIR LANDING @ END WALL

1 1/2" = 1'

STAIR TOE @ LANDING

1 1/2" = 1'

STAIR HEAD @ LANDING

1 1/2" = 1'

STAIR HEAD AT SECOND FLOOR

1 1/2" = 1'

STAIR LANDING

STAIR TOE

1 1/2" = 1'

STAIR LANDING

STAIR TOE

1 1/2" = 1'

STAIR LANDING

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STAIR LANDING

STAIR TOE

1 1/2" = 1'

STAIR LANDING

STAIR TOE

1 1/2" = 1'

STAIR LANDING

STAIR TOE

1 1/2" = 1'

STAIR LANDING

STAIR TOE
GENERAL NOTES

- Dimensions are subject to change. Certain dimensions will be shown on the contract documents.
- All designs must be consistent with the drawings in this set.
- The architect shall be notified of any discrepancies.
- The general contractor shall coordinate all mechanical, electrical, and architectural work.
- Provide all necessary construction to facilitate the installation of mechanical systems.

CEILING TYPES

- Prefinished Aluminum Soffit
- No Ceiling
- Painted Gypsum Board Header, Soffit, Bulkhead, or Ceiling

MATCH LINE

- S5
- SD
- AD
- SF

ROOM NUMBER

- 101
- 102
- 103
- 104
- 105
- 106
- 107
- 108
- 109
- 110
- 111
- 112
- 113
- 114
- 115
- 116
- 117
- 118
- 119

ROOM NAME

- COMP HHQ
- BATT HQ
- LKR RM HALL
- STAIR NO. 3
- LOCKER MP SPACE
- CORRIDOR
- FIRST FLOOR RCP - AREA A
- MEN'S SHWR
- WOMEN'S SHWR
- JAN
- multi-purpose
- serving
- cooler
- office
- dry storage
- laundry

REFLECTED CEILING LEGEND

- 100% Tegular; Size: 24
- Manufacturer: Armstrong Commercial Ceilings; Style: Ultima
- Color: White; Grid: Prelude XL; Grid Size: 15/16

KEYNOTES

- 0" PENDANT LIGHT FIXTURE
- 0" RECESSED LIGHT FIXTURE
- 0" x 4'
- 2' x 2'
- Supply Diffuser
- 4' x 2'

SAPP DESIGN ASSOCIATES Architects, P.C.
GENERAL NOTES

1. REFER TO MFG. SPECIFICATIONS FOR FINISH AND MATERIALS.  REFER TO DRAWING NUMBER A701 FOR IMPACT WALLS.

2. PROVIDE DRAWER FRONTS TO MATCH DOORS AT CABINETS.  ALL DRAWERS SHALL HAVE K&V OR EQUAL HEAVY DUTY DRAWER SLIDES & LOCKABLE GLASS PANELS.

3. ALL DOOR HINGES TO BE OF THE SEMI CONCEALED TYPE 5 (K&V OR EQUAL).  ALL INTERIOR SHELF BRACKETS & CLIPS AT CABINETS SHALL BE K&V OR EQUAL.

4. PROVIDE NECESSARY BLOCKING IN ALL WALLS TO RECEIVE CASEWORK & SHELVING.

5. PROVIDE DRAWER FRONT BRACING AS SHOWN.

6. PROVIDE BLOCKING FOR MIDDLE PANELS OF CABINET ELEVATIONS & SECTIONS TO MATCH DESIGN INTENT OF ARCHITECT.

7. PROVIDE PLASTIC LAMINATE CLADDING OVER 3/4" SHELF.

8. SHELVES OVER SHELF TO BE 1/4" TEMPERED GLASS.

9. WALL PANEL WP1 IS TO BE MATCHED TO ADJACENT WALL.

10. FINISH ALL EXPOSED END PANELS OF CASEWORK TO MATCH ADJACENT CASEWORK.

11. ALL GLASS DOORS TO BE LOCKABLE SLIDING GLASS COORDINATES TO MATCH THE CORRESPONDING CASEWORK DRAWING.

12. CASEWORK CONTRACTOR. DOOR & DRAWER PULLS TO BE "STANLEY MIN. 4" WIRE PULLS IN US26D FINISH, ADA COMPLIANT, UNLESS NOTED OTHERWISE.

13. CASEWORK HARDWARE. PROVIDE DRAWER FRONTS TO MATCH DOORS AT CABINETS.

14. PROVIDE BLOCKING FOR MIDDLE PANELS OF CABINET ELEVATIONS & SECTIONS TO MATCH DESIGN INTENT OF ARCHITECT.

15. PROVIDE NECESSARY BLOCKING IN ALL WALLS TO RECEIVE CASEWORK & SHELVING.

16. PROVIDE DRAWER FRONT BRACING AS SHOWN.

17. PROVIDE BLOCKING FOR MIDDLE PANELS OF CABINET ELEVATIONS & SECTIONS TO MATCH DESIGN INTENT OF ARCHITECT.

18. PROVIDE NECESSARY BLOCKING IN ALL WALLS TO RECEIVE CASEWORK & SHELVING.

19. PROVIDE DRAWER FRONT BRACING AS SHOWN.

20. PROVIDE BLOCKING FOR MIDDLE PANELS OF CABINET ELEVATIONS & SECTIONS TO MATCH DESIGN INTENT OF ARCHITECT.

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28. PROVIDE DRAWER FRONT BRACING AS SHOWN.

29. PROVIDE BLOCKING FOR MIDDLE PANELS OF CABINET ELEVATIONS & SECTIONS TO MATCH DESIGN INTENT OF ARCHITECT.

30. PROVIDE NECESSARY BLOCKING IN ALL WALLS TO RECEIVE CASEWORK & SHELVING.

31. PROVIDE DRAWER FRONT BRACING AS SHOWN.

32. PROVIDE BLOCKING FOR MIDDLE PANELS OF CABINET ELEVATIONS & SECTIONS TO MATCH DESIGN INTENT OF ARCHITECT.

33. PROVIDE NECESSARY BLOCKING IN ALL WALLS TO RECEIVE CASEWORK & SHELVING.

34. PROVIDE DRAWER FRONT BRACING AS SHOWN.

35. PROVIDE BLOCKING FOR MIDDLE PANELS OF CABINET ELEVATIONS & SECTIONS TO MATCH DESIGN INTENT OF ARCHITECT.

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38. PROVIDE BLOCKING FOR MIDDLE PANELS OF CABINET ELEVATIONS & SECTIONS TO MATCH DESIGN INTENT OF ARCHITECT.

39. PROVIDE NECESSARY BLOCKING IN ALL WALLS TO RECEIVE CASEWORK & SHELVING.

40. PROVIDE DRAWER FRONT BRACING AS SHOWN.
NOTE: FURNITURE SHOWN THIS PLAN W/ DASHED LINES IS FOR INFORMATION ONLY. IT IS NOT PART OF CONTRACT. MEP ROUGH-IN ONLY IS PART OF CONTRACT - SEE MEP SHEETS.

SIGN TYPE LEGEND

FIRST FLOOR SIGNAGE AND FURNITURE PLAN AREA B
SIGN TYPE LEGEND

1. EVACUATION PLAN - SEE DETAIL 8/A910
2. TACTILE EXIT SIGN - SEE DETAIL 4/A910
3. INFORMATIONAL SIGN - SEE DETAILS 5, 6, 7/A910
4. ELEVATOR EMERGENCY SIGN - SEE DETAIL 2/A910
5. SPRINKLER FIRE ALARM - SEE DETAIL 9/A910
6. INFORMATIONAL SIGN - SEE DETAILS 5, 6, 7/A910

NOTE: FURNITURE SHOWN THIS PLAN W/ DASHED LINES IS FOR INFORMATION ONLY. IT IS NOT PART OF CONTRACT.
MEP ROUGH-IN ONLY IS PART OF CONTRACT - SEE MEP SHEETS.

1/8" = 1'-0"

SECOND FLOOR SIGNAGE AND FURNITURE PLAN

1. PROVIDE SIGN OVER EACH FIRE EXTINGUISHER AND AE D, REFER TO DETAIL 10/A910. REFER TO FLOOR PLANS FOR LOCATIONS OF FIRE EXTINGUISHERS.
2. TITLE AND NAME WILL BE CONFIRMED TO CONTRACTOR BY MISSOURI ARMY NATIONAL GUARD AT TIME OF SHOP DRAWING DEVELOPMENT.
3. INTERIOR SIGN ADHESIVELY APPLIED TO FINISH GYPSUM BOARD OR CMU.
4. INTERIOR SIGN ADHESIVELY APPLIED TO GLAZING. PROVIDE BACK PLATE ON OPPOSITE SIDE OF GLAZING.
BUILDING CODE REQUIREMENTS FOR STRUCTURAL DESIGN LOADS PER ASCE 7 2018 INTERNATIONAL BUILDING CODE (IBC 2018)

PARTITION (LATERAL LOAD)

ANCHOR RODS

EXTERIOR WALLS:

GROUT STRENGTH (AT 28 DAYS)

CONCRETE MASONRY UNITS (CMU)

LIGHT GAGE STEEL STUDS/JOISTS

HIGH STRENGTH BOLTS

C AND MC SHAPES, ANGLES, PLATES

SEISMIC RESPONSE COEFFICIENT

WIND EXPOSURE

RAILING (LATERAL LOAD AT TOP)

CEILING

STAIRS AND EXITS

OFFICE CONSTITUENT CORRIDOR ABOVE 1 FLOOR CORRIDOR

ENTRAINMENT - RESISTING SYSTEM

- 0.185 g; S = 50 ksi

- EQUIVALENT LATERAL FORCE PROCEDURE

- SPECIAL purposes

- LIGHT GAUGE METAL FRAMING ONLY. DO NOT SCALE DRAWINGS.

- ELECTRICAL AND PLUMBING DRAWINGS. CONTRACTOR QUESTION ARISES, NOTIFY STRUCTURAL ENGINEER PRIOR TO SUPPORTED BY BEAMS DESIGNATED FOR SUCH PURPOSE

- THROUGH STRUCTURAL MEMBERS FOR ALL TRADES.

- THE STRUCTURAL ENGINEER.

- PROJECT LIMITS CAUSED BY CONSTRUCTION TECHNIQUES

- IMMEDIATELY NOTIFY THE STRUCTURAL ENGINEER OF ANY VARIATIONS FROM THE DRAWINGS PROPERLY INCORPORATE THE CONSTRUCTION DIMENSIONS AND ELEVATIONS WITH THE STRUCTURAL DRAWINGS ARE TO BE COORDINATED WITH ALL TRADES.

- THE FABRICATOR FOR THE BEAM END REACTIONS AND CONNECTIONS SHALL BE DESIGNED USING LRFD SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.

- D. STRUCTURAL FABRICATIONS ON THE PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH THE APPROVED SHOP DRAWINGS. THE FABRICATOR SHALL SUBMIT REPRESENTATIVE SAMPLES INTO COMPLIANCE WITH THE SUBSTANTIATING CONNECTION AND CALCULATIONS DETERMINING THE LIMIT STATE SHALL BE HIGHLIGHTED.

- THE AISC CODE OF STANDARD PRACTICE.

- THE STRUCTURAL ENGINEER EMPLOYED BY THE ARCHITECT/ENGINEER OF RECORD A. THE STRUCTURAL ENGINEER. REFER TO ARCHITECTURAL ENGINEERED FILL CAPABLE. REFER TO THE SOILS REPORT TO BEAR ON FIRM NATIVE SOILS OR COMPACTED ENGINEERED FILL. REFER TO THE SOILS REPORT WHERE SUCH INFORMATION IS NOT PROVIDED. REFER TO THE SOILS REPORT WHERE SUCH INFORMATION IS NOT PROVIDED. REFER TO THE GEOTECHNICAL INVESTIGATION REPORT - LOCATED IN THE APPENDIX OF THE BID DOCUMENTS. REFER TO THE SOILS REPORT WHERE SUCH INFORMATION IS NOT PROVIDED. REFER TO THE SOILS REPORT WHERE SUCH INFORMATION IS NOT PROVIDED.

- INTERSECTIONS WITH CORROSION PROTECTION.

- COVER TOP OF UNFINISHED MASONRY WORK.

- SENSOR SKULLS

- EXTERIOR WALLS

- CONTRACTED JOINTS NOT COVERED WITH STUCCO OR STONE SHALL BE COVERED WITH 1" X 6" METAL STRAPPING AT JOINTS ONLY AND MUST BE PLACED IN CONCRETE TO MINIMIZE EXPANSION AND CONTRACTION OF JOINTS.

- FLEXIBLE SHEAR KEY WITH DUROMETER RUBBER SHEAR KEY WITH DUROMETER ~ 350# PER LINEAR FOOT (1 1/4") 1/8"

- ASTM D1751

- ASTM C260

- REGULAR WEIGHT HARDROCK TYPE PORTLAND TYPE I/II

- ASTM F436

- ASTM A500, GRADE C, F

- ASTM A992

- A.325 OR A490 BOLTS.

- THESE NOTES FOR THE FOUNDATION TESTING AND REPORTS ARE TO BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW.

- A. ALL BEAMS, COLUMNS, SPANS, SUPPORTS.

- B. ALL MOMENTS,ANCHOR RODS.

- C. PROVIDE BRACING FOR ALL EXISTING LIGHT FRAMES, LOGGIA, GREEN ROOMS, ETC. TO BE STRENGTHENED TO RESIST HORIZONTAL AND VERTICAL LOADING.

- D. PROVIDE BRACING FOR ALL EXISTING LIGHT FRAMES, LOGGIA, GREEN ROOMS, ETC. TO BE STRENGTHENED TO RESIST HORIZONTAL AND VERTICAL LOADING.

- SEISMIC RESPONSE COEFFICIENT

- WIND EXPOSURE

- RAILING (LATERAL LOAD AT TOP)

- CEILING

- STAIRS AND EXITS

- OFFICE CONSTITUENT CORRIDOR ABOVE 1 FLOOR CORRIDOR

- ENTRAINMENT - RESISTING SYSTEM

- INTERSECTIONS WITH CORROSION PROTECTION.

- COVER TOP OF UNFINISHED MASONRY WORK.
OVERALL FOUNDATION PLAN

SCALE = 1/16" = 1'-0"

AREA 'B'

AREA 'A'

MATCHLINE   AREA B SEE SHEET 102
MATCHLINE   AREA A SEE SHEET 101

EXISTING BUILDING
AREA 'A'

AREA 'B'

SB.5
SB.9
SB.1

SB.8

1' - 9 5/8"

3' - 5 7/8"

11' - 6 1/2"

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Missouri State Certificate of Authority #000607
Engineer of Record
Chris Philpy, Engineer MO PE-2019023464

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SPRINGFIELD, MISSOURI
NATIONAL GUARD BUREAU PROJECT #290186
ASSET #8136270008
SITE #9019

CHECKED BY:

DESIGNED BY:

REVISION:

DATE:

REVISION:

DATE:

ISSUED DATE:

SHEET TITLE:

OF            SHEETS

DRAWN BY:

SHEET NUMBER:

SHEET TITLE:

OVERALL FOUNDATION PLAN

SHEET NUMBER:
S100

REVISION:

DATE:

OLESSOR:

JANUARY 2020

T1809-01

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CP/AALO
26 FEBRUARY 2020
S100
AREA A ROOF FRAMING PLAN

SCALE = 1/8" = 1'-0"

1. Top of steel noted as (XXX').
2. Indicate span direction of 2" 22 GA.
3. Indicate span direction of 6" 16 GA Enviesta Acoustical Deck (or approved equal).
4. Typical joist bearing depth for sloped joists in.
5. Provide full height stiffener plate/shear.
6. Typical joist bearing depth for slope (XXX').

WHERE THE JOISTS BEARING 6 1/4".

AREA A IS 6", EXCEPT FOR THOSE AT COLUMN LINE "SF", WHERE THE JOISTS BEARING 6 1/4".

INDICATES ULTIMATE SHEAR LOAD AT END OF BEAM FOR CONNECTION.

DESIGNED BY:

DRAWN BY:

ISSUED DATE:

REVISION:

FACILITIES DIVISION
MISSOURI NATIONAL GUARD
SPRINGFIELD, MISSOURI
1107TH THEATER AVIATION CENTER
ADJUTANT GENERAL
OFFICE OF THE
MISSOURI NATIONAL GUARD
MISSOURI READINESS CENTER

SHEET NUMBER:

SHEET TITLE:

DATE:

SHEET NUMBER:

ARCHITECT:

ENGINEER OF RECORD:

DESIGNED BY:

DRAWN BY:

Issued Date:

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Chris Philpy, Engineer MO PE-2019023464

Engineer of Record
**TYPICAL SLAB ON GRADE JOINTS**

1. **FACE OF WALL OR COLUMN**
2. **FACE OF SLAB**
3. **FACE OF SLAB**
4. **FACE OF SLAB**

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

---

**TYPICAL WALL CORNER REINFORCING**

1. **HORIZONTAL BARS**
2. **VERTICAL BARS**
3. **L-BARS**
4. **T-BARS**

**SCALE** = 3/4" = 1'-0"

---

**TYPICAL FOOTING CORNER REINFORCING**

1. **#4 @ 12" OC VERT**
2. **#4 @ 12" OC HORIZ**
3. **#4 @ 12" OC EW**

**SCALE** = 3/4" = 1'-0"

---

**ELEVATOR TOWER PLAN**

1. **CONTROL JOINT**
2. **CONSTRUCTION JOINT**
3. **FACE OF WALL OR COLUMN**

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

---

**STAIR TOWER FOOTING**

1. **#4 DOWELS @ 12" OC SPA**
2. **#4 BARS @ 12" OC EA WAY**
3. **2" CLR**
4. **1/2" COMP FILL AND SEALER**
5. **PROVIDE BLOCKOUT FOR COL.**

---

**COLUMN PIER DETAIL**

1. **EDGE OF PIER**
2. **FACE OF WALL OR COLUMN**
3. **FACE OF SLAB**

**SCALE** = 3/4" = 1'-0"

---

**VAULT WALL FOOTING**

1. **3" SLAB ON GRADE**
2. **EL=SEE PLAN**
3. **#4 @ 12" OC TYPE A**
4. **#4 @ 12" OC EW**

**SCALE** = 3/4" = 1'-0"

---

**FOOTING STEP DETL**

1. **FOOTING STEP DETL**
2. **FACE OF WALL OR COLUMN**
3. **FACE OF SLAB**

---

**EXTERIOR COLUMN FOOTING SECTION**

1. **#4 @ 12" OC HORIZ**
2. **#4 @ 12" OC VERT**
3. **#4 @ 12" OC EW**

**SCALE** = 3/4" = 1'-0"

---

**INTERIOR COLUMN FOOTING SECTION**

1. **#4 @ 12" OC HORIZ**
2. **#4 @ 12" OC VERT**
3. **#4 @ 12" OC EW**

**SCALE** = 3/4" = 1'-0"

---

**TYPICAL FOOTING CORNER REINFORCING**

1. **#4 @ 12" OC VERT**
2. **#4 @ 12" OC HORIZ**
3. **#4 @ 12" OC EW**

**SCALE** = 3/4" = 1'-0"

---

**6" SLAB ON GRADE DETAIL**

1. **FACE OF WALL OR COLUMN**
2. **FACE OF SLAB**
3. **FACE OF SLAB**

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

---

**FACE OF SLAB**

1. **FACE OF WALL OR COLUMN**
2. **FACE OF SLAB**
3. **FACE OF SLAB**

**SCALE** = 1/4" = 1'-0"
8'' STAIR WALL W/ #4 AT 12'' OC EW
L4x4x1/4w 5/8'' EXPN ANCHORS AT 16'' OC
SHEAR CONNECTION BY STEEL FAB
FLOOR SLAB
BEAM, SEE PLAN
OPTIONAL ERECTION ANGLE
EMBED PLATE

2' - 0"

EMBED PL W/ (6) 3/4'' Øx6 HEADED STUDS

L5X5X1/2X CONT (GALV) W/ 5/8'' Ø EXPN ANCHORS @ 16'' OC
EMBED 3''

L4X4X1/4X CONT W/ 5/8'' Ø EXPN ANCHORS @ 16'' OC
EMBED 3''

HSS 6X6 COL, SEE SCHED
1/2'' STIFFENER PL/SHEER TAB

NOTE:
DESIGN INTENT IS TO ALLOW FOR VERTICAL SLIP BETWEEN VERTICAL ANGLE LEG AND WALL, AND TO TRANSFER HORIZONTAL SHEAR FROM BEAM TO WALL.
1. ROOF HOOD RH-1 AND RH-2 BASIS OF DESIGN LOREN CO OK MODEL GR THROAT DIMENSION 54"X42".

2. PREFERRED LOCATION FOR KITCHEN COOLER/FREEZE COND ENDING UNITS. EQUIPMENT PROVED BY OTHERS. INSTALL PER MANUFACTURERS RECOMMENDATIONS. COORDINATE EXACT LOCATION WITH STRUCTURE AND EQUIPMENT PROVIDED.
**Sheet Keynotes**
1. CHILLED WATER AND HEATING HOT WATER LINES UP FROM FLOOR BELOW, COORDINATE EXACT LOCATION WITH OTHER TRADES.
2. FINAL CONNECTIONS TO HYDRONIC COILS NOT SHOWN FOR CLARITY. SEE VAV COIL CONNECTION DETAIL FOR FITTINGS AND ACCESSORIES NECESSARY.
RETURN AIR
DMPR-CTRL
TEMP
RLY
OUTSIDE AIR
DETECTOR
SMOKE
SMK
TE
HEATING ONLY AIR HANDLER CONTROL DIAGRAM
NOT TO SCALE
CONTRACTOR TO PROVIDE ALL NEW CONTROL ENCLOSURES. NO EXISTING
WITH E.C. ON ALL NEW ENCLOSURE LOCATIONS.
RESPONSIBILITY TO PROVIDE AND INSTALL NEW ENCLOSURES.
ENCLOSURES ARE TO BE REUSED. IT IS THE CONTRACTOR'S
DI
STATUS
FILTER
dPS
AIR TEMP
MIXED
TE
TE
APPLICABLE
2
3
TO
1
HHWS
PREHEAT COIL
MOD-CTRL
COIL
FAN
CS
VARIABLE AIR VOLUME AIR HANDLER CONTROL DIAGRAM
ENERGY RECOVER UNIT CONTROL DIAGRAM
ENERGY RECOVER UNIT CONTROL DIAGRAM
1
2
3
4
GENERAL NOTES
1. RETURN AIR DUCT SMOKE DETECTOR TO FIRE ALARM SYSTEM.
PROVIDE RETURN AIR DUCT SMOKE DETECTOR WITH FAN RELAY SHUTDOWN.
OPERATION IS NOT PERMITTED WITH OUT DAMPER PROOF OF OPEN CONFIRMED.
OR BYPASS. DAMPER ACTUATOR END SWITCH TO BE HARDWIRE INTERLOCKED
IS GENERATED, WHETHER THE VFD IS COMMANDED TO OPERATE IN HAND, AUTO,
WITH VFD. DAMPER ACTUATORS TO OPEN WHENEVER THE VFD ENABLE COMMAND
CLOSED (F.C.). HARDWIRE INTERLOCK DAMPER ACTUATOR OPEN/CLOSE COMMAND
PROVIDE NEW 2-POSITION DAMPER ACTUATOR. CONFIGURE ACTUATOR TO FAIL
PRESSURE ALARM AND FAN SHUTDOWN.

2. PROVIDE SPDT DIFFERENTIAL PRESSURE SWITCH WITH MANUAL RESET FOR HIGH
PROVIDE CURRENT SWITCH FOR FAN/MOTOR PROOF STATUS.

3. PROVIDE DUCT MOUNTED TEMPERATURE/HUMIDITY SENSOR.

4. PROVIDE LOW LIMIT THERMOSTAT (FREEZE STAT) FOR UNIT FREEZE PROTECTION.

5. PROVIDE THERMOSTAT (FREEZE STAT) FOR UNIT FREEZE PROTECTION.

6. PROVIDE CURRENT SWITCH FOR FAN/MOTOR PROOF STATUS.
NEW KITCHEN HOOD
EQUIPMENT
BY OTHERS

EXHAUST
AIR
MAKEUP
AIR

FACTORY CONTROLS

VAV-SUPPLY
TEMPERATURE
VAV-SPACE
TEMPERATURE

VAV
ZN DMPR
M
SUPPLY AIR UNIT
SUPPLY AIR
AO
VAV#-#
3
2RC-1
AI
AO
VAV

NOTES
NEW SPACE TEMPERATURE SENSOR FOR ZONE TEMPERATURE CONTROL.
NEW ASC TO MONITOR AND CONTROL VAV DAMPER, REHEAT COIL, AND SPACE TEMPERATURE.
NEW ZONE SUPPLY AIR TEMPERATURE SENSOR.
NEW HEATING COIL CONTROL VALVE W/ ELECTRIC ACTUATOR.

DOMESTIC WATER PIPING CONTINUED
PER PLUMBING PLANS AND DETAILS.

INTEGRATED DRIVE
HEATING HOT WATER
TO/FROM BUILDING 3A
CENTRAL PLANT.

NOTE: PUMP POINTS SHOWN ARE FOR REFERENCE ONLY. THE FOLLOWING PUMPS ARE TO BE FACTORY PROVIDED WITH INTEGRAL CONTROLS, STATUS, ALARMS, ETC.:
· DHWP-1 AND DHWP-2 (RECIEVES ENABLE/DISABLE SIGNALS FROM RESPECTIVE BOILER).

PACKAGED PUMPING SYSTEMS ARE TO BE PROVIDED WITH INTEGRATION TO BUILDING AUTOMATION SYSTEM FOR INITIALIZATION WITH RESPECTIVE PLANT.

DOMESTIC WATER PUMPING SYSTEMS

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Engineer of Record Cory Wilson, Engineer MO PE-2010009876

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NON-SHRINK GROUT

NON-SHRINK SILICONE

INTERIOR ROOM WALL

PIPE AND/OR PIPE WITH INSULATION

GALV. STEEL SLEEVE 1" GREATER THAN LARGEST DIAMETER,
EITHER PIPE WITH INSULATION OR IF INSULATION IS NOT
REQUIRED THEN PIPE.

NOTES:

1. SLEEVES ARE NOT REQUIRED FOR CORE-DRILLED HOLES OR

STUD WALLS.

INSULATION SHALL BE INSTALLED THRU WALL

UNISTRUT CHANNEL PIPE

INSULATION HANGER ROD

INSULATION PIPE

PROVIDE A SECTION OF HIGH COMPRESSION
STRENGTH INSULATION AT EACH HANGER POINT.

INSULATION MAY BE HALF ROUND OR FULL ROUND &
EXTENDED 2" BEYOND GALV. SHIELD EA. WAY.

GALV. IRON SHEET SHIELD (12" LONG)

NOTES:

1. ATTACH SUPPORTS FOR ALL PIPING SUSPENDED FROM THE

STEEL STRUCTURE TO THE TOP CORD OF JOISTS OR BEAMS.

2. PROVIDE COPPER OR PLASTIC COATED HANGERS FOR

NON-INSULATED COPPER PIPE

CEILING

DUCT SIZE AS LISTED ON PLANS

PROVIDE STAINLESS STEEL SKIRT IF

NECESSARY.

DISHWASHER DOOR LOCATION

WHEN RAISED.

FULL SIZE HOOD DRAIN TO FLOOR

SINK.

3" MIN.

6" MIN.

BOTH SIDES

ROOF PIPE SUPPORT

NOT TO SCALE

MAX SPACING

3"

8'

PIPE SIZE SEE PLANS

PIPE SUPPORT SCHEDULE

3/4"

1 1/4"

2 1/2"

1 1/2"

2"

1"

PIPE SIZE

4'

6'

6'

8'

6'

6'

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

ROOF PIPE SUPPORT SCHEDULE

POLYETHYLENE SUPPORT PAD

SPACERS MAY BE STACKED TO OBTAIN HEIGHT REQUIRED.

PIPE STAND

PIPE TO REST FREELY ON SUPPORT

PIPING SHALL BE SUPPORTED AT ALL ELBOWS AND
TEES AND AT SPACING SPECIFIED IN TABLE.

PIPING SHALL BE SLOPED AND ROUTED TO PREVENT
TRAPPING CONDENSATE (EXCEPT AT DIRT LEGS) AND TO
FACILITATE CONDENSATE DRAINAGE.

GROUND JOINT PIPE UNION

ELBOWS TO ALLOW FOR PIPE EXPANSION

ROOF SUPPORT.

REFER TO DETAIL

ANCHOR PIPE TO ROOF DECK OR JOISTS

ROOF DECK

ROOF INSULATION

CUT ROOF FOR PENETRATION REFER TO PLANS FOR PIPE SIZE(S) AND LOCATION(S). USE WELDED OR SCREWED FITTINGS AS SPECIFIED FOR PIPE SIZE. LOCATE PENETRATION MINIMUM 18" FROM ADJACENT WALLS, EQUIPMENT CURBS, PARAPETS, EXPANSION JOINTS, ETC.

FLASHING AND COUNTERFLASHING IS BY ROOFING CONTRACTOR.

PLUMBING CONTRACTOR SHALL COORDINATE INSTALLATION.

1/4"x3" STEEL PLATE AS REQUIRED

5/8" DIA. SMOOTH STEEL BAR

NOTES:

1. SECURITY BARS TO BE PROVIDED AT ALL WALL OPENINGS IN SCIF WALL 96 SQ IN AND LARGER.

2. ALL SECURITY BARS ARE TO BE WELDED TO FLAT IRON FRAM TO FILL OPENING.

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FACILITIES DIVISION

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SHEET TITLE:
OF 130 SHEETS
SHEET NUMBER:
018-2772

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CHECKED BY:

DESIGNED BY:

REVISION:

DATE:

REVISION:

DATE:

REVISION:

DATE:

ISSUED DATE:

DRAWN BY:

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Engineer of Record
Cory Wilson, Engineer MO PE-2010009876
### HVAC PIPES MATERIAL SCHEDULE

<table>
<thead>
<tr>
<th>Schedule</th>
<th>Length</th>
<th>Style</th>
<th>Diameter</th>
<th>Color</th>
<th>Pressure Class</th>
<th>Length of Pipe</th>
<th>Notes</th>
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**Notes:**
- All materials shall be corrosion resistant and approved by the local code enforcement.
- Pressure classes shall be in accordance with ASME B31.1.

### DUCT PRESSURE CLASS

<table>
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<tr>
<th>Duct Size</th>
<th>Class</th>
<th>Notes</th>
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**Notes:**
- Duct sizes shall be determined based on the supply and exhaust loads.
- Classes shall be in accordance with ASME B31.1.

### AIR DISTRIBUTION DEVICES

<table>
<thead>
<tr>
<th>Name</th>
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<th>Location</th>
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**Notes:**
- Each device shall be marked with its make and model number.
- Locations shall be in accordance with the design plans.

### AIR HANDLING UNIT SCHEDULE

<table>
<thead>
<tr>
<th>System</th>
<th>Make</th>
<th>Model</th>
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**Notes:**
- Makes and models shall be selected based on the performance characteristics.
- Locations shall be in accordance with the design plans.

### ELECTRIC METER SCHEDULE

<table>
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<tr>
<th>Meter</th>
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**Notes:**
- Meters shall be selected based on the expected load requirements.
- Types shall be in accordance with the local code enforcement.

### ENERGY RECOVERY VENTILATORS

<table>
<thead>
<tr>
<th>Name</th>
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**Notes:**
- Makes and models shall be selected based on the performance characteristics.
- Types shall be in accordance with the design plans.

### VARIABLE AIR VOLUME SUPPLY BOXES WITH HW REHEAT

<table>
<thead>
<tr>
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**Notes:**
- Makes and models shall be selected based on the performance characteristics.
- Types shall be in accordance with the design plans.

### KITCHEN HOODS

<table>
<thead>
<tr>
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**Notes:**
- Makes and models shall be selected based on the performance characteristics.
- Types shall be in accordance with the design plans.

### EXHAUST FANS

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<tr>
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**Notes:**
- Makes and models shall be selected based on the performance characteristics.
- Types shall be in accordance with the design plans.

### COMPUTER ROOM AIR HANDLING UNIT SCHEDULE

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</table>

**Notes:**
- Makes and models shall be selected based on the performance characteristics.
- Locations shall be in accordance with the design plans.
1. Waste line from second floor, provide wall cleanout before routing below finished floor.
2. 4" Vent through roof, coordinate exact location with structure.
3. See enlarged plumbing plans for work in this area.
4. Vent up to floor above connect into vent for restroom above.
1. WASTE LINE FROM SECOND FLOOR FIXTURES DOWN TO FIRST FLOOR.

1/8" = 1'

SECOND FLOOR WASTE & VENT PLUMBING PLAN
FIRST FLOOR DOMESTIC WATER PLUMBING PLAN - AREA B
SECOND FLOOR DOMESTIC WATER PLUMBING PLAN
1. 1-1/2" CW AND 1-1/2" HW DOWN IN WALL 1/2" CONNECTION TO EACH SHOWER FIXTURE.

2. 2" CW AND 2" HW DOWN IN WALL 1/2" CONNECTION TO EACH SHOWER FIXTURE.

SEE FIRST FLOOR PLANS FOR CONTINUATION.
### Piping Material Schedule

<table>
<thead>
<tr>
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### Mixing Valve Schedule

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### Plumbing Fixture Schedule

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### General Notes

2. WALL SUPPORTS.

1. INLET THERMOMETERS.

ACCESSORIES:

- DWH-3 LOCHINVAR SIT119DW MECH 113 180 14.0 174 140 ALL
- RP-1 GRUNDFOS MAGNA3 40-120F MECH HOT WATER CIRCULATING 2.0 15 .60 120/1 3364 ALL

DOMESTIC WATER ABOVE GRADE ALL L -- -- B88 CP CP SJ 120 40-18 0 150 1 HR

NATURAL GAS ABOVE GRADE 0.5"-2.5" SL/CW 40 A A53 CS/BLK CS WELD 1 - 100 1 HR

ROOF DRAIN ABOVE GRADE ALL NH SS -- A74 CI CI DR/HB 10 FT 40- 180 10 FT 1 HR

WASTE BELOW GRADE ALL DWV 40 -- 2,665 CI CI DR/HS 10 FT 40-80 10 FT 1 HR

### Piping Fittings

Max. Working Field Test

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### Piping Schedule

### Plumbing Schedule
GENERAL SHEET NOTES

A. PER FEDERAL, STATE, AND LOCAL STATUTES, NOTIFY MISSOURI ONE-CALL SYSTEM, INC. AT LEAST 48 HOURS PRIOR TO ANY DIGGING, TRENCHING, EXCAVATION, ETC.

B. INFORMATION SHOWN ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE AND LOCATION OF EXISTING UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

C. ALL CONDUCTORS SHOWN ARE TO BE COPPER ONLY. ALL UNDERGROUND CONDUIT SHALL BE PVC.

D. RIGID CONDUIT SHALL BE USED WHERE CONDUIT IS EXPOSED TO PHYSICAL DAMAGE OR ON THE EXTERIOR OF THE BUILDING.

SHEET KEYNOTES

1. ROUTE LIGHTING HOMERUN BELOW GRADE TO EXISTING IN-GROUND JUNCTION BOX. CONNECT TO EXISTING LIGHTING CIRCUIT. REFER TO BUILDING INTERIOR PLANS FOR CONTROL SCHEME. LIGHTS SHALL BE CONTROLLED BY TIME CLOCK/PHOTOCELL. PROVIDE (2)-#10, (1)-#10G IN 1" CONDUIT.

2. AREA LIGHT FIXTURE AND LIGHT POLE ON CONCRETE BASE. REFER TO LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION. BASES OF DESIGN FOR FIXTURE IS MATCH EXISTING PARKING LOT POLE.

3. EXISTING IN-GROUND JUNCTION BOX. INTERCEPT EXISTING CIRCUIT AND EXTEND TO NEW LIGHTING POLES. VERIFY EXACT LOCATION.

4. EXISTING LIGHT POLE TO REMAIN.

5. IN-GROUND JUNCTION BOX. ROUTE (1)-2" CONDUIT BELOW GRADE AND STUB UP INTO BUILDING FOR CAR CHARGING STATION.

6. (2)-#2 AND (1)-#2 GROUND IN 1" CONDUIT.

7. (4)-#2 AND (1)-#2 GROUND IN 2" CONDUIT.

8. LINEAR LED IN-GRADE LIGHT FIXTURE IN CONCRETE BASE. (TYP.)

9. PROVIDE (2)-#10 AND (1)-#10 GROUND IN 1" CONDUIT. ROUTE HOMERUN TO PANELBOARD IN BUILDING. CIRCUIT TO BE CONTROLLED BY TIME CLOCK. REFER TO BUILDING INTERIOR PLANS FOR EXACT LOCATION AND CONTROL SCHEME.

10. 1" = 20'
### SITE PHOTOMETRICS PLAN

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<tr>
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<th>AVERAGE</th>
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### CONSTRUCTION BOUNDARY

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### PHOTOMETRICS SCHEDULE

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**Sheet Information:**
- **Title:** Site Photometrics Plan
- **Date:** 02-26-2020
- **Engineer of Record:** SH
- **Design Firm:** Sapp Design Associates, Architects, P.C.
- **Drawing Number:** ES101
- **Scale:** Not specified
- **Dimensions:** Not specified

**Project Information:**
- **Company:** Missouri National Guard
- **Project Name:** Missouri National Guard - Site Plan
- **Location:** North Kansas City, MO 64116
- **Certificate of Authority:** Missouri Certificate of Authority #0001592
- **Architect:** Olsson
- **Website:** www.olsson.com
- **Contact:** 816.361.1177

**Table Notes:**
- **ASSET  #8136270008**
- **REVISION:** Not specified
- **DRAWN BY:** Not specified
- **DESIGNED BY:** Not specified
- **SHEET NUMBER:** 1
- **DATE:** 02-26-2020
1. REFER TO SHEET E110 FOR CIRCUIT CONTINUATION. PROVIDE (2)-#10 AND (1)-#10 GROUND IN 0.75" CONDUIT.
2. DIGITAL LIGHTING CONTROLLER. NETWORK CONTROLLERS TOGETHER FOR TIME CONTROL MANAGEMENT BY ZONE. LOCATE ABOVE ACCESSIBLE CEILING WHERE APPLICABLE. ONE CONTROLLER IS SHOWN FOR CLARITY. PROVIDE REQUIRED TYPE AS SCHEDULED AND QUANTITY AS REQUIRED FOR A COMPLETE LIGHTING CONTROL SYSTEM.
3. LINEAR LIGHT FIXTURE SHALL BE SUSPENDED FROM STRUCTURE ABOVE AT 10'-0" A.F.F. MEASURED FROM THE BOTTOM OF THE LIGHT FIXTURE.
4. TIMECLOCK PER SCHEDULE. REFER TO WIRE DIAGRAM.
GENERAL SHEET NOTES

1. PROVIDE 208V CIRCUIT FOR GENERATOR WATER JACKET HEATER.
2. PROVIDE 120V CIRCUIT FOR GENERATOR LIGHTING AND RECEPTACLES.
3. INSTALL COPPER GROUND RING AROUND NEW GENERATOR.
4. PROVIDE 120V POWER FOR HVAC CONTROL PANEL.
5. INSTALL 10' 3/4" COPPER CLAD GROUND ROD FOR GENERATOR GROUND SYSTEM.
6. PROVIDE 120V POWER FOR GENERATOR ANNUNCIATOR PANEL. ROUTE (1)-1" RACEWAY. (TYP.)
7. FEEDER ROUTED ABOVE ACCESSIBLE CEILING FROM EXISTING BUILDING TO DISTRIBUTION SECTION OF NEW MDP TO ATS.
8. FEEDER ROUTED BELOW GRADE FROM GENERATOR TO ATS.
9. FEEDER ROUTED THROUGH RAISE/LOWER PUSH BUTTON.
10. PROVIDE POWER TO COIL DOOR. ROUTE CIRCUIT THROUGH RAISE/LOWER PUSH BUTTON.

SHEET KEYNOTES

A. ALL RECEPTACLES INDICATED WITH A "S" ARE SWITCHED RECEPTACLES AND ARE CONNECTED FOR EQUIPMENT POWER CONNECTIONS AND ADDITIONAL INFORMATION.
B. THE NEUTRAL OF MULTI-WIRE BRANCH CIRCUITS SHOULD BE SIZED AT 200% OF THE PHASE CONDUCTORS. THE OVERSIZED NEUTRAL WILL OCCUR AT MULTI-WIRE BRANCH CIRCUITS WHICH MAY HAVE COMPUTER EQUIPMENT CONNECTED.
C. REFER TO SPECIAL SYSTEMS PLANS AND EQUIPMENT CONNECTIONS SCHEDULE FOR ADDITIONAL INFORMATION. FIELD VERIFY EXACT ROUTING IN BUILDING.
D. THE FEEDER ROUTE ABOVE ACCESSIBLE CEILING FROM NEW MDP TO EXISTING BUILDING.
E. MATCH LINE FOR ELECT/MECH.

FIRST FLOOR POWER PLAN - AREA B

1. PROPOSED LOCATION OF NEW NATURAL GAS GENERATOR ON HOUSEKEEPING PAD. REFER TO ONE-LINE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. INSTALL 10" CONDUIT BELOW GRADE FROM GENERATOR TO ATS.
3. PROVIDE 208V CIRCUIT FOR COIL DOOR. ROUTE CIRCUIT THROUGH RAISE/LOWER PUSH BUTTON.
4. PROVIDE 120V POWER FOR GENERATOR GROUND SYSTEM.
5. PROVIDE 208V POWER FOR GENERATOR COMMUNICATION CABLE.
FIRST LEVEL SYSTEMS PLAN - AREA B
1 SECOND FLOOR SYSTEMS PLAN - AREA A

Sheet Title:

Sheet Keynotes:

1. Provide UTP, RG-6, or RG-8W cable as required for TV distribution to each room.
2. Provide 240V, 3-phase, 4-wire power distribution at each room.
3. Provide 120V, 60Hz, 20A power distribution at each room.
4. Provide smoke detectors in each room.
5. Provide carbon monoxide detectors in each room.
6. Provide water shut-off valves at each room.
7. Provide access to utilities at each room.
8. Provide lighting controls at each room.
9. Provide data communications at each room.
10. Provide security systems at each room.
1. ALL WORK ASSOCIATED WITH ELEVATOR WILL BE PART OF BID ALTERNATE.

2. PROVIDE SHUNT TRIP BREAKERS TO SERVE ALL CIRCUIT S OF EQUIPMENT.

3. PROVIDE 120V POWER FOR WALK IN LIGHTING. REFER TO MANUFACTURER INSTRUCTIONS FOR ADDITIONAL INFORMATION.

4. PROVIDE POWER TO HOOD LIGHTS. REFER TO HOOD MANUFACTURER INSTRUCTIONS FOR ADDITIONAL INFORMATION.

5. PROVIDE AUXILIARY CONTACTS FOR SHUNT TRIP CONTROL - ON THE PANEL BOARD FOR SHUT-OFF OF FAN SHUTDOWN, TO THE COIL AT EACH EXHAUST FAN SHUTDOW, TO THE FILTRATION SYSTEM, TO THE HOOD LIGHTS, TO THE COIL AT REFRESHMENT SYSTEMS, TO THE LOCKS AND INTERLOCKED WITH THE EXHAUST HOOD FIRE SUPPRESSION CABINET. VERIFY REQUIREMENTS WITH FIRE ALARM CONTRACTOR AND HOOD FIRE ALARM RELAY IN THE POWER MODULE. ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM SHALL CAUSE A SUPERVISORY ALARM ON THE FIRE ALARM PANEL.

6. PROVIDE FIRE ALARM MONITOR MODULE AND WIRE TO THE FIRE ALARM PANEL.

KITCHEN EQUIPMENT DISCONNECTS

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KITCHEN EQUIPMENT CONNECTION SCHEDULE

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ELEVATOR PLAN KEY NOTES

1. ELEVATOR CONTROLLER.

2. ELEVATOR PARALLEL POWER.

BID ALTERNATE NOTES

- ELEVATOR CONTROLLER
- ELEVATOR PARALLEL POWER
**SHEET KEYNOTES**

1. PROVIDE 208V, 30A NEMA L6-30R RECEPTACLE FOR RACK MOUNTED UPS. REFER TO MANUFACTURER FOR EXACT REQUIREMENTS. COORDINATE LOCATION AND EXACT REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN. PROVIDE (2)-#10 AND (1)-#10 GROUND IN 0.75" CONDUIT.

2. PROVIDE 208V, 20A NEMA L6-20R RECEPTACLE FOR RACK MOUNTED UPS. REFER TO MANUFACTURER FOR EXACT REQUIREMENTS. COORDINATE LOCATION AND EXACT REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN.

3. FLOOR MOUNTED SERVER RACK. REFER TO TELECOMM DETAIL FOR ADDITIONAL INFORMATION. INSTALL CAT 6 48 PORT PATCH PANEL(S) FOR ALL NEW TELECOM WIRING DEVICES. PROVIDE TERMINATION FOR ALL WIRING FROM OUTLETS TO PATCH PANEL WITH PROPER TESTING AND LABELING. RACK MOUNTED UPS BY E/C. FIBER TERMINATION BY OWNER.

4. WALL MOUNTED SERVER CABINET. REFER TO TELECOMM DETAIL FOR ADDITIONAL INFORMATION. INSTALL CAT 6 48 PORT PATCH PANEL(S) FOR ALL NEW TELECOM WIRING DEVICES. PROVIDE TERMINATION FOR ALL WIRING FROM OUTLETS TO PATCH PANEL WITH PROPER TESTING AND LABELING.

5. WALL MOUNTED SPEAKER CABINET. REFER TO SPEAKER DIAGRAM DETAIL FOR ADDITIONAL INFORMATION.

6. 12"x2" CABLE TRAY MOUNTED AT 10'-0" ABOVE FINISH GRADE.

7. TYPE X FIRE RATED PLYWOOD BACKBOARD. BOARD SHALL BE 6' TALL AND EXTEND THE LENGTH OF THE WALL. PAINT TO MATCH WALL.

8. CONDUIT FOR FIBER ROUTING PER PLANS. FIBER TERMINATION BY OWNER. PROVIDE 3" CONDUIT SLEEVE FOR WHERE SHOWN THROUGH WALL WITH END BUSHINGS FOR DATA CABLING TRANSFER THROUGH WALL.
FLIP UP COVER BY OTHERS

12 FOOT 14/3 SJT BLACK CORD AND CAT 6 PAT CABLING ROUTED THRU TABLE SUPPORTS TO POKE-THRU BY OTHERS EQUAAL TO WIREMOLD EVOLUTION SERIES, FIRE RATED MODEL 6ATCPBK, WITH BLACK ALUMINUM COVER WITH TWO DUPLEX RECEPTACLES, TWO COMMUNICATION KEYSTONE JACKS, AND AN OPEN SLOT FOR OWNER A/V.

LOW VOLTAGE CABLING

1/2" CONDUIT

1/2" CONDUIT

3/4" EMT POWER CONDUIT

FLOOR BOX BASIS OF DESIGN EQUAL TO WIREMOLD EVOLUTION SERIES, FIRE RATED MODEL EFB6S WITH FLUSH COVER EFB610BTCBK. WITH BLACK ALUMINUM COVER WITH TWO DUPLEX RECEPTACLES, TWO COMMUNICATION KEYSTONE JACKS, AND AN OPEN SLOT FOR OWNER A/V.

1/2" CONDUIT

1/2" CONDUIT

3/4" EMT POWER CONDUIT

FLUSH 3-SERVICE FURNITURE FEED COVER

BASIS OF DESIGN HUBBELL #PT73FFSD SERIES SINGLE PIECE FIRE-RATED POKE-THROUGH WITH ONE 3/4" CONDUIT FITTING AND TWO 1/2" CONDUIT FITTINGS
SIREN JUNCTION BOX
1 R43
108"
EXTERIOR WALL VAULT SECURITY DETAILS
NOT TO SCALE
36"
TO VAULT NO. 1 WIREWAY
3
FINISHED GRADE
1 R37 R44
2 R27 R30
JUNCTION BOX
EXTERIOR WALL PENETRATION
R7
EXTERIOR BUILDING
R43
INTERIOR BUILDING
R43
UNSECURE SIDE
R21 R23
R31
OCTAGON JUNCTION BOX
R21 R23
REMOTE STATUS INDICATOR
R10
R11
ANTENNA ENCLOSURE JUNCTION BOX
R12
R26
EXTERIOR WALL PENETRATION
R9
EXTERIOR BUILDING
R21
INTERIOR BUILDING
R45
U3
(2X)
R32
R1

LEGEND:
NOTES:
1. ALL CONDUIT EMBEDDED WITHIN WALL. BOX FACES TO BE FLUSH WITH FINISHED SURFACE.
2. ALL CONDUIT WILL BE EMBEDDED WITHIN WALL.
3. JUNCTION BOXES WILL BE MOUNTED FLUSH TO THE CENTER JUNCTION BOX ABOVE THE DOOR FRAME. SEE SHEET GGTASM 182772/17.
4. TO SUPPLY ROOM/DEMARK (STUB OUT) TO NETWORK SWITCH (STATE PROVIDED) ROOM (STUB OUT) (IF APPLICABLE) 4
5. TO VAULT NO. 1 SEISMIC DETECTOR JUNCTION BOX TO VAULT NO. 1 SEISMIC DETECTOR JUNCTION BOX
6. TO VAULT WIREWAY (2X)

FINISHED CEILING (SURFACE MOUNTED)
12"
U3
(2X)
FINISHED FLOOR
SECURE SIDE
TRUE CEILING
REINFORCED CONCRETE CEILING
R1 R21 R23 R28
R2
VAULT SECURE SIDE
SUPPLY ROOM SECURE SIDE
U3
(2X)
### Lighting Device Schedule

<table>
<thead>
<tr>
<th>Device Type</th>
<th>Model</th>
<th>Manufacturer</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wall Mounting</td>
<td>DMX Room Controller</td>
<td>UNISON ECHO ERMC4-TC</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wall Digital Lighting Management</td>
<td>Single Zone Switching and DIMMING</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4D 5-BUTTON DIMMING WALL</td>
<td>DIGITAL LIGHTING MANAGEMENT</td>
<td></td>
</tr>
<tr>
<td></td>
<td>6 KEYPAD WALL</td>
<td>WALL MOUNTED 6 BUTTON KEYPAD</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DMX CONTROLLER</td>
<td>CRESTRON C2N-CBD-TS</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OCCUPANCY SENSOR SWITCH</td>
<td>WATTSTOP PERSW -301-W</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DUAL TECHNOLOGY</td>
<td>CLOSED LOOP DIGITAL PHOTOCENSORS</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PROVIDE 0-10V CONTROL SIGNAL TO DIMMABLE FIXTURES</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>COMPONENT WITH CAT5E CABLES AND RJ45 CONNECTORS TO</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>FOLLOWS: &quot;OFF&quot;, &quot;1&quot;, &quot;2&quot;, &quot;3&quot;, AND DIMMING</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>IC-DIN-II-LITE RP1 WITH SERIAL DATA INTERFACE FOR</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>WATTSTOPPER LMLS-400</td>
<td></td>
<td></td>
</tr>
<tr>
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</tr>
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### Lighting Fixture Schedule

<table>
<thead>
<tr>
<th>Fixture Type</th>
<th>Model</th>
<th>Manufacturer</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>D2E Suspended</td>
<td>8' SUSPENDED LINEAR LED LIGHT</td>
<td>LITHONIA TZL1N-96-6000LM-FST-MOLT-40K-80CRI-WH-Z</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>48 W LED 4000 K 277 V</td>
<td></td>
</tr>
<tr>
<td>D1E Suspended</td>
<td>4&quot; X 4' LED SUSPENDED LINEAR STRIP LIGHT</td>
<td>LITHONIA ZL1N-48-5000LM-L/LE NS-MVOLT-40K-80CRI--E10WLCP-WH-Z</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>37 W LED 4000 K 277 V</td>
<td></td>
</tr>
<tr>
<td>EX2 Ceiling</td>
<td>CEILING MOUNTED EXIT SIGN</td>
<td>LITHONIA LRP-2-LRA/DA-RC-ELN</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 W LED 4000 K 277 V</td>
<td></td>
</tr>
<tr>
<td>WE Wall</td>
<td>EXTERIOR LED WALL PACK</td>
<td>LITHONIA WSTLED-P2-40K-VW-MVOLT-DNAXD-E20WC</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>40 W LED 4000 K 277 V</td>
<td></td>
</tr>
<tr>
<td>D3 Suspended</td>
<td>SUSPENDED LINEAR - 8'</td>
<td>METALUX 8WSL-LD2-60-SPS-UNV-L840-CD-1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>115 W LED 4000 K 277 V</td>
<td></td>
</tr>
<tr>
<td>C1 Recessed</td>
<td>6&quot; DIA. ROUND DOWNLIGHT</td>
<td>GOTHAM EVO-40-15-6AR-WD-LSS-MVOLT-GZ10</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>19 W LED 4000 K 277 V</td>
<td></td>
</tr>
<tr>
<td>C2 Recessed</td>
<td>6&quot; DIA. ROUND WALL WASH DOWNLIGHT</td>
<td>GOTHAM EVO-WW-40-15-6AR-LSS-MVOLT-GZ1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>17 W LED 4000 K 277 V</td>
<td></td>
</tr>
<tr>
<td>D2 Suspended</td>
<td>8' SUSPENDED LINEAR LED LIGHT</td>
<td>LITHONIA TZL1N-96-6000LM-FST-MOLT-40K-80CRI-WH-Z</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>48 W LED 4000 K 277 V</td>
<td></td>
</tr>
<tr>
<td>R3 Suspended</td>
<td>22&quot; DECORATIVE PENDANT DOWNLIGHT</td>
<td>TECH LIGHTING 700-TD-SYRP-B-LED930</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>52 W LED 3500 K 277 V</td>
<td></td>
</tr>
<tr>
<td>F1 Recessed</td>
<td>RECESSED 2X2 DIRECT/INDIRECT LED TROFFER</td>
<td>LITHONIA 2BLT2-40L-DP-MVOLT-EZ1-LP840</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>32 W LED 4000 K 277 V</td>
<td></td>
</tr>
<tr>
<td>W Wall</td>
<td>EXTERIOR LED WALL PACK</td>
<td>LITHONIA WSTLED-P2-40K-VW-MVOLT-DNAXD</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>40 W LED 4000 K 277 V</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>500 W LED 3500 K 120 V</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>POLE 160 W 3200 K 277 V</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>NO EQUALS ALLOWED.</td>
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</tr>
</tbody>
</table>

### Mechanical Equipment Connection Schedule

<table>
<thead>
<tr>
<th>Equipment Type</th>
<th>Model</th>
<th>Manufacturer</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAV-1-2B</td>
<td>VAV BOX</td>
<td>277 V</td>
<td>1 C TOG 20A 1 DPH-1 9 #12 #12 #12 0.75&quot;</td>
</tr>
<tr>
<td>VAV-1-8</td>
<td>VAV BOX</td>
<td>277 V</td>
<td>1 C TOG 20A 1 DPH-1 8 #12 #12 #12 0.75&quot;</td>
</tr>
<tr>
<td>VAV-1-7</td>
<td>VAV BOX</td>
<td>277 V</td>
<td>1 C TOG 20A 1 DPH-1 6 #12 #12 #12 0.75&quot;</td>
</tr>
<tr>
<td>VAV-1-6</td>
<td>VAV BOX</td>
<td>277 V</td>
<td>1 C TOG 20A 1 DPH-1 2 #12 #12 #12 0.75&quot;</td>
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<tr>
<td>VAV-1-5</td>
<td>VAV BOX</td>
<td>277 V</td>
<td>1 C TOG 20A 1 DPH-1 2 #12 #12 #12 0.75&quot;</td>
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<tr>
<td>VAV-2-9</td>
<td>VAV BOX</td>
<td>277 V</td>
<td>1 C TOG 20A 1 DPH-2 14 #12 #12 #12 0.75&quot;</td>
</tr>
<tr>
<td>VAV-2-8</td>
<td>VAV BOX</td>
<td>277 V</td>
<td>1 C TOG 20A 1 DPH-2 14 #12 #12 #12 0.75&quot;</td>
</tr>
<tr>
<td>VAV-2-7</td>
<td>VAV BOX</td>
<td>277 V</td>
<td>1 C TOG 20A 1 DPH-2 13 #12 #12 #12 0.75&quot;</td>
</tr>
<tr>
<td>VAV-2-4</td>
<td>VAV BOX</td>
<td>277 V</td>
<td>1 C TOG 20A 1 DPH-2 8 #12 #12 #12 0.75&quot;</td>
</tr>
<tr>
<td>VAV-2-2</td>
<td>VAV BOX</td>
<td>277 V</td>
<td>1 C TOG 20A 1 DPH-2 8 #12 #12 #12 0.75&quot;</td>
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<tr>
<td>VAV-2-1</td>
<td>VAV BOX</td>
<td>277 V</td>
<td>1 C TOG 20A 1 DPH-2 8 #12 #12 #12 0.75&quot;</td>
</tr>
<tr>
<td>VAV-2-14</td>
<td>VAV BOX</td>
<td>277 V</td>
<td>1 C TOG 20A 1 DPH-2 16 #12 #12 #12 0.75&quot;</td>
</tr>
<tr>
<td>VAV-2-17</td>
<td>VAV BOX</td>
<td>277 V</td>
<td>1 C TOG 20A 1 DPH-2 12 #12 #12 #12 0.75&quot;</td>
</tr>
<tr>
<td>VAV-2-20</td>
<td>VAV BOX</td>
<td>277 V</td>
<td>1 C TOG 20A 1 DPH-2 13 #12 #12 #12 0.75&quot;</td>
</tr>
<tr>
<td>VAV-2-1</td>
<td>VAV BOX</td>
<td>277 V</td>
<td>1 C TOG 20A 1 DPH-1 7 #12 #12 #12 0.75&quot;</td>
</tr>
<tr>
<td>VAV-2-5</td>
<td>VAV BOX</td>
<td>277 V</td>
<td>1 C TOG 20A 1 DPH-1 3 #12 #12 #12 0.75&quot;</td>
</tr>
</tbody>
</table>

### Schedule General Notes

- **MECHANICAL EQUIPMENT CONNECTION** schedule includes all mechanical equipment connections and corresponds to the project's mechanical plan.
- **ELECTRICAL CONNECTION SCHEDULE LEGEND** explains the symbols used in the electrical connection schedule.

### Electrical Connection Schedule Script

```
<table>
<thead>
<tr>
<th>Device</th>
<th>Type</th>
<th>Nominal Voltage</th>
<th>Phase</th>
<th>Disconnection</th>
</tr>
</thead>
<tbody>
<tr>
<td>CU-3</td>
<td>CONDENSING UNIT</td>
<td>480 V</td>
<td>3 M</td>
<td>NF - 30A 1 HEM 7,9,11 3-#12 #12 - 0.75&quot;</td>
</tr>
<tr>
<td>CU-1</td>
<td>CONDENSING UNIT</td>
<td>480 V</td>
<td>3 C</td>
<td>NF - 30A 3R DPH-2 7,9,11 #12 # 12 #12 0.75&quot;</td>
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<tr>
<td>AHU-3</td>
<td>AIR HANDLING UNIT</td>
<td>480 V</td>
<td>3 M</td>
<td>NF - 30A 1 MDP 10 3-#12 #12 - 0 .75&quot;</td>
</tr>
<tr>
<td>FCU-1</td>
<td>FAN COIL UNIT</td>
<td>120 V</td>
<td>1 C</td>
<td>TOG - 20A 1 LPH-1 6 #12 #12 #12 0.75&quot;</td>
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<tr>
<td>WH-3</td>
<td>WATER HEATER</td>
<td>120 V</td>
<td>1 C</td>
<td>TOG - 20A 1 LPH-1 9 #12 #12 #12 0.75&quot;</td>
</tr>
<tr>
<td>MB-1</td>
<td>COMPUTER ROOM AIR HANDLING UNIT</td>
<td>480 V</td>
<td>3 M</td>
<td>NF - 30A 3R HEM 14,16,18 3-#12 #12 - 0.75&quot;</td>
</tr>
<tr>
<td>MAU-1</td>
<td>MAKE UP AIR UNIT</td>
<td>480 V</td>
<td>3 C</td>
<td>NF - 30A 3R DPH-2 7,9,11 #12 # 12 #12 0.75&quot;</td>
</tr>
</tbody>
</table>
```

### Basis of Design Model

- **VFD2-VARIABLE FREQUENCY DRIVE WITH NON-FUSED DISCONNECT**
- **NF=NON FUSED DISCONNECT SWITCH**
- **COMB1-COMBINATION FULL VOLTAGE NON-REVERSING MAGNETIC STARTER WITH NON FUSED DISCONNECT**
- **FVR-FULL VOLTAGE REVERSING MAGNETIC MOTOR STARTER**
- **MS-MANUAL STARTER**

### Adjutant General

- **MISSOURI NATIONAL GUARD**
- **FACILITIES DIVISION**
- **TASMG READINESS CENTER**
- **MOSES/101ST INDIANAVATION**
- **TASMG MAINTENANCE CENTER**
- **MISSOURI NATIONAL GUARD SUPPORT HI2 RING SERIES**
<table>
<thead>
<tr>
<th>LOAD DESCRIPTION</th>
<th>AMP</th>
<th>PHASE</th>
<th>TOTAL KVA</th>
<th>TOTAL VA</th>
<th>TOTAL AMP</th>
<th>TOTAL PHASE</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>HVAC_Cooling</td>
<td>9400</td>
<td>A</td>
<td>9400</td>
<td>100.00%</td>
<td>9400</td>
<td>100.00%</td>
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<tr>
<td>Receptacle</td>
<td>16520</td>
<td>A</td>
<td>16520</td>
<td>80.27%</td>
<td>13260</td>
<td>80.27%</td>
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<tr>
<td>Power</td>
<td>500</td>
<td>A</td>
<td>500</td>
<td>100.00%</td>
<td>500</td>
<td>100.00%</td>
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<tr>
<td>GFCI - GROUND FAULT CIRCUIT INTERRUPTING TYPE CIRCUIT...</td>
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<tr>
<td>HVAC 107B RECEPTS</td>
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<td>100.00%</td>
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</tbody>
</table>

**NOTES LOAD DESCRIPTION AMP P CKT.**

**CLASSIFICATIONS**

-- -- -- -- 31 4515 1000 32 1 20 A Receptacle

-- -- -- -- 23 1567 1000 24 2 20 A UPS RECEPT IDF 226

-- SPACE ONLY -- -- 37 0 0 38 -- -- SPACE ONLY --

-- -- -- -- 15 1746 5016 16 -- -- -- --

-- -- -- -- 11 1746 3714 12 -- -- -- --

-- -- -- -- 9 1746 3714 10 -- -- -- --

-- -- -- -- 3 17458 3833 4 -- -- -- --

UPS RECEPT RM 111 20 A 2 17 1000 1567 18 3 25 A CRAH-2 DISPOSAL (#26) 20 A 3 7 1746 3714 8 3 25 A DISHMACHINE (#30) TF-K 175 A 3 1 18606 3833 2 3 25 A COFFEE BREWER (#6)
### Load Description and Circuit Information

#### Classification

- **Lighting** 280 VA 125.00% 350 VA
- **Kitchen** 9463 VA 80.00% 7570 VA
- **Motor** 2300 VA 125.00% 2875 VA

#### Load and Notes

- **Classifications**
  - **-- SPARE** 0 A 1 41 0 0 42 1 0 A **SPARE**
  - **-- SPACE ONLY** -- -- 33 0 0 34 -- -- **SPACE ONLY**
  - **-- SPACE ONLY** -- -- 29 0 0 30 -- -- **SPACE ONLY**
  - **-- SPACE ONLY** -- -- 27 0 0 28 -- -- **SPACE ONLY**
  - **-- SPACE ONLY** -- -- 25 0 0 26 -- -- **SPACE ONLY**
  - **-- SPARE** 20 A 1 13 0 0 14 1 20 A **SPARE**

#### Electrical Panel Information

- **RR 128 HAND DRYER** 20 A 1 23 1000 1000 24 1 20 A **RR 227 HAND DRYER**
- **CRESTON LIGHTING PANEL** 20 A 1 19 500 500 20 1 20 A **WATER COOLER GFCI**
- **LOAD**
  - **TOTAL PHASE A**
  - **TOTAL PHASE B**
  - **TOTAL PHASE C**
  - **AIC RATING**

#### Voltage and MDP

- **FED FROM**
  - **MDP**

#### Panel Numbering and Notes

- **RM 219 TV RECPT** 20 A 1 35 1000 180 36 1 20 A **RM 230 RECPT**
- **RM 219 FB RECPTS** 20 A 1 33 1080 1080 34 1 20 A **OFF 208/209/2 10 RECPTS**
- **VAV 2A/2B** 20 A 1 9 4600 2300 10 1 20 A **VAV 1**
- **TFH1** 50 A 3 1 2620 3700 2 1 20 A **VAV 5/6**
- **HEATED STORAGE**
  - **RM 122 RECPTS** 20 A 1 33 540 600 34 -- -- -- --

#### Equipment Specifications

- **VAULT SECURITY POWER** 20 A 1 1 1000 540 2 1 20 A **TELE 124 RECPTS**
- **GEN ANNUNCIATOR PANEL** 20 A 1 9 500 540 10 1 20 A **RM 113/114 DESK QUAD AND IG**
- **VAULT SECURITY POWER** 20 A 1 1 1000 540 2 1 20 A **TELE 124 RECPTS**
- **VAULT SECURITY POWER** 20 A 1 1 1000 540 2 1 20 A **TELE 124 RECPTS**

#### Equipment Notes

- **HPL- PADLOCK ATTACHMENT TO LOCK C/B HANDLE IN OPEN POSITION**
- **HLO - HANDLE LOCK ON DEVICE FOR CIRCUIT BREAKER**
- **GFPE - GROUND FAULT PROTECTION EQUIPMENT CIRCUIT BREAKER**

#### Electrical System Details

- **MAXIMUM DEMAND**
  - **PHASE BUS RATING**
  - **TOTAL PHASE A**
  - **TOTAL PHASE B**
  - **TOTAL PHASE C**
  - **DEMAND FACTOR**
  - **Note**