

# Troop C CDL Supersite Upgrade HVAC & Control System St. Louis, Missouri

OWNER: STATE OF MISSOURI  
MIKE KEHOE  
GOVERNOR  
  
DEPARTMENT OF PUBLIC SAFETY  
  
MISSOURI STATE HIGHWAY PATROL

PROJECT OFFICE OF ADMINISTRATION  
MANAGEMENT: DIVISION OF FACILITIES MANAGEMENT,  
DESIGN AND CONSTRUCTION



DESIGNER: EDM Incorporated  
500 North Broadway, Suite 1200  
St. Louis, MO 63102

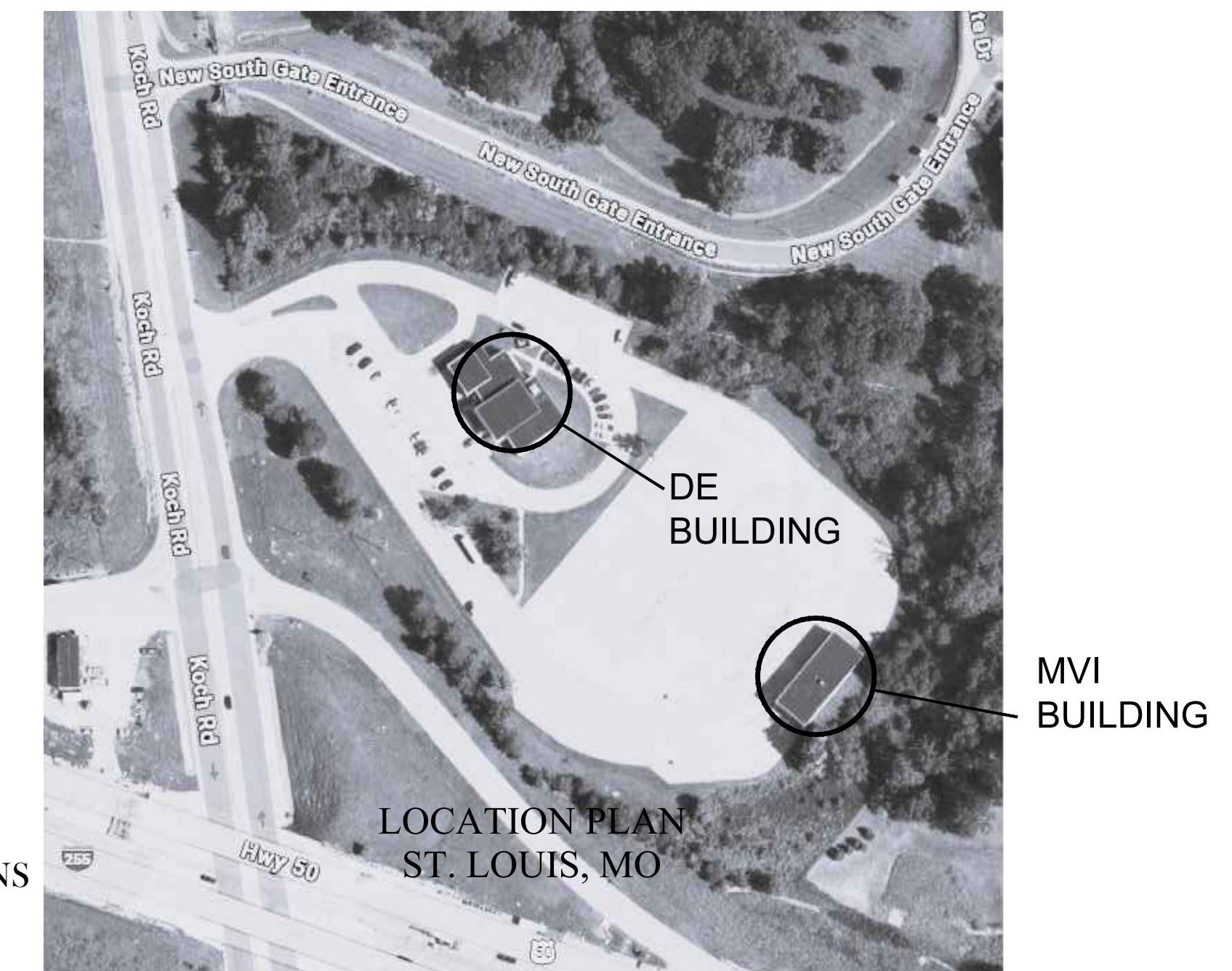
PROJECT NUMBER: R2513-01

SITE NUMBER: 6019  
FACILITY NUMBER: 8136019010

CODE ANALYSIS		
Applicable Codes (FMDC)		
St. Louis County		
International Building Code 2015		
International Existing Building Code 2015		
International Mechanical Code 2015		
International Energy Conservation Code 2015		
International Plumbing Code 2015		
NEC 70 National Electric Code 2014		
Mehlville Fire Protection District		
International Fire Code 2021		
Occupancy		
Business B		
Existing Gross Area =	7,600 gsf @	1/100 sf 76 occ

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SHEET NUMBER:

# G-001

1 OF 19 SHEETS  
MAY 1, 2026



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MANAGEMENT,  
DESIGN AND CONSTRUCTION

UPGRADE HVAC & CONTROL  
SYSTEMS, DE/MVI BUILDING

TROOP C CDL SUPER SITE  
ST. LOUIS COUNTY, MISSOURI

PROJECT # R2513-01  
SITE # 6019  
FACILITY # 8136019010

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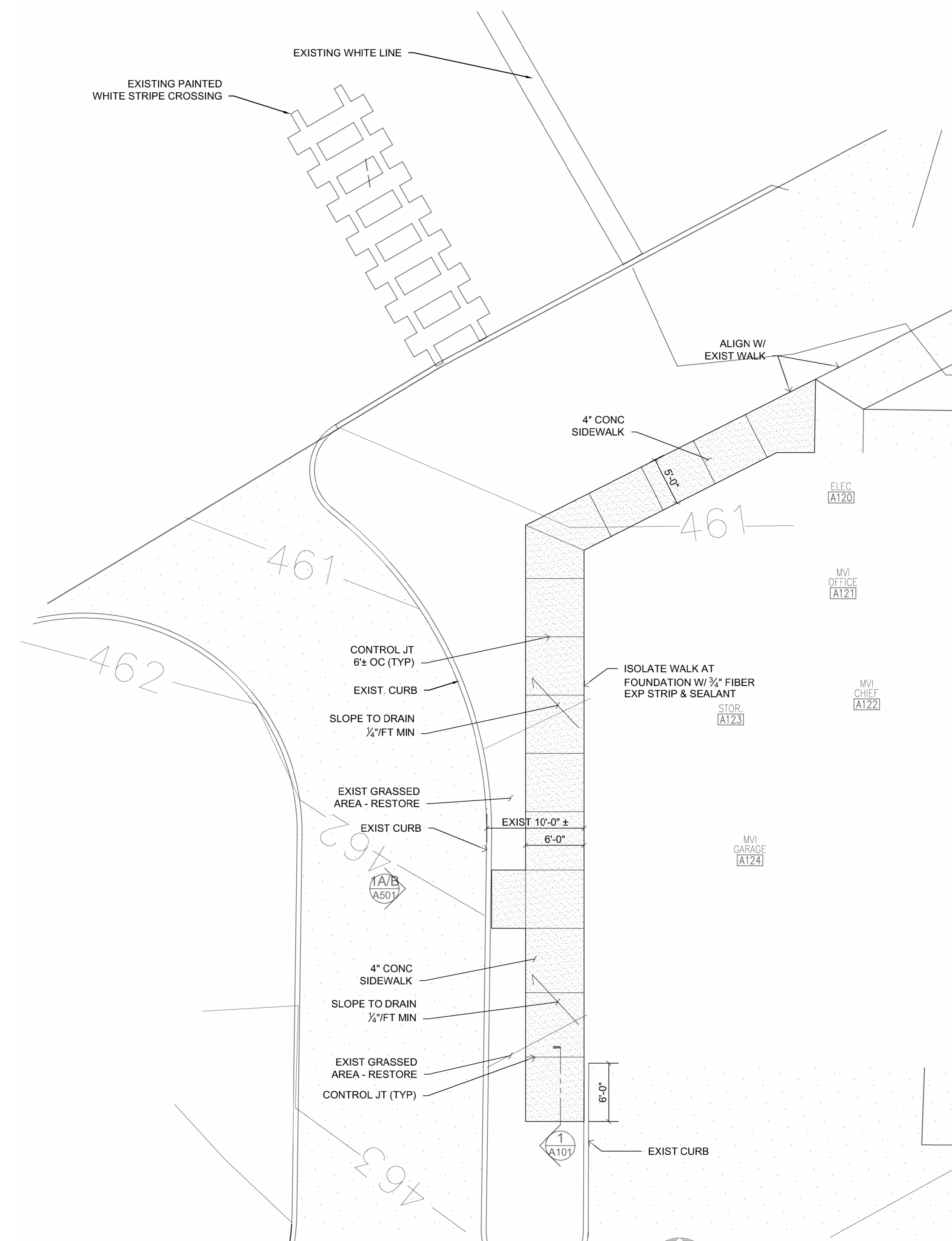
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DESIGNED BY: GSS

SHEET TITLE:  
**PARTIAL FLOOR/  
SITE PLAN**

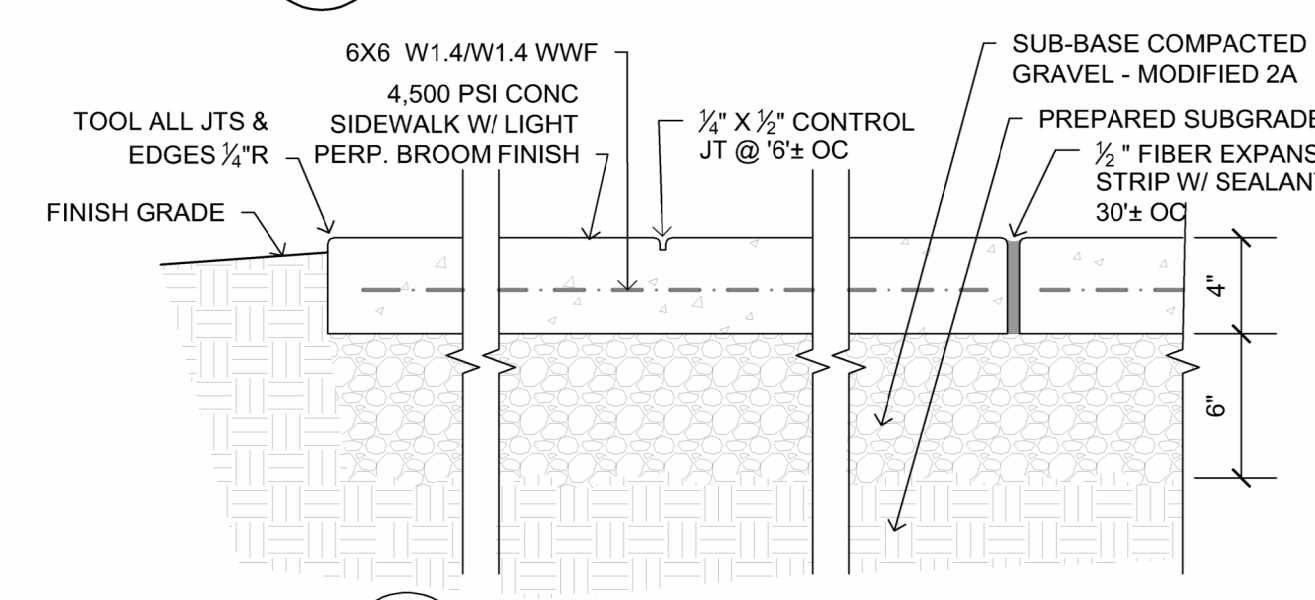
SHEET NUMBER:

**A-101**

2 OF 17 SHEETS  
05/01/2026



**A PARTIAL FLOOR / SITE PLAN**  
SCALE: 1/8"=1'-0"



**1 SIDEWALK DETAIL**  
SCALE: 1 1/2"=1'-0"

- CONCRETE SIDEWALK PAVING**
- CEMENT: PORTLAND CEMENT: ASTM C 150, GRAY PORTLAND CEMENT TYPE I.
    - REINFORCING: DEFORMED-STEEL WELDED WIRE REINFORCEMENT: ASTM A 497/A 497M, FLAT SHEET.
    - AGGREGATES: ASTM C 33 / MAX SIZE: 1 1/2" - 6% +/- 1%.
    - AIR-ENTRAINING ADMIXTURE: ASTM C 260 - 6% +/- 1%.
  - MEMBRANE-FORMING CURING COMPOUND: ASTM C 309, TYPE 1, CLASS B, DISSIPATING.
  - JOINT FILLERS: ASTM D 1751, ASPHALT -SATURATED CELLULOSIC FIBER. PROVIDE AS SHOWN AND ALONG BUILDING & CURB



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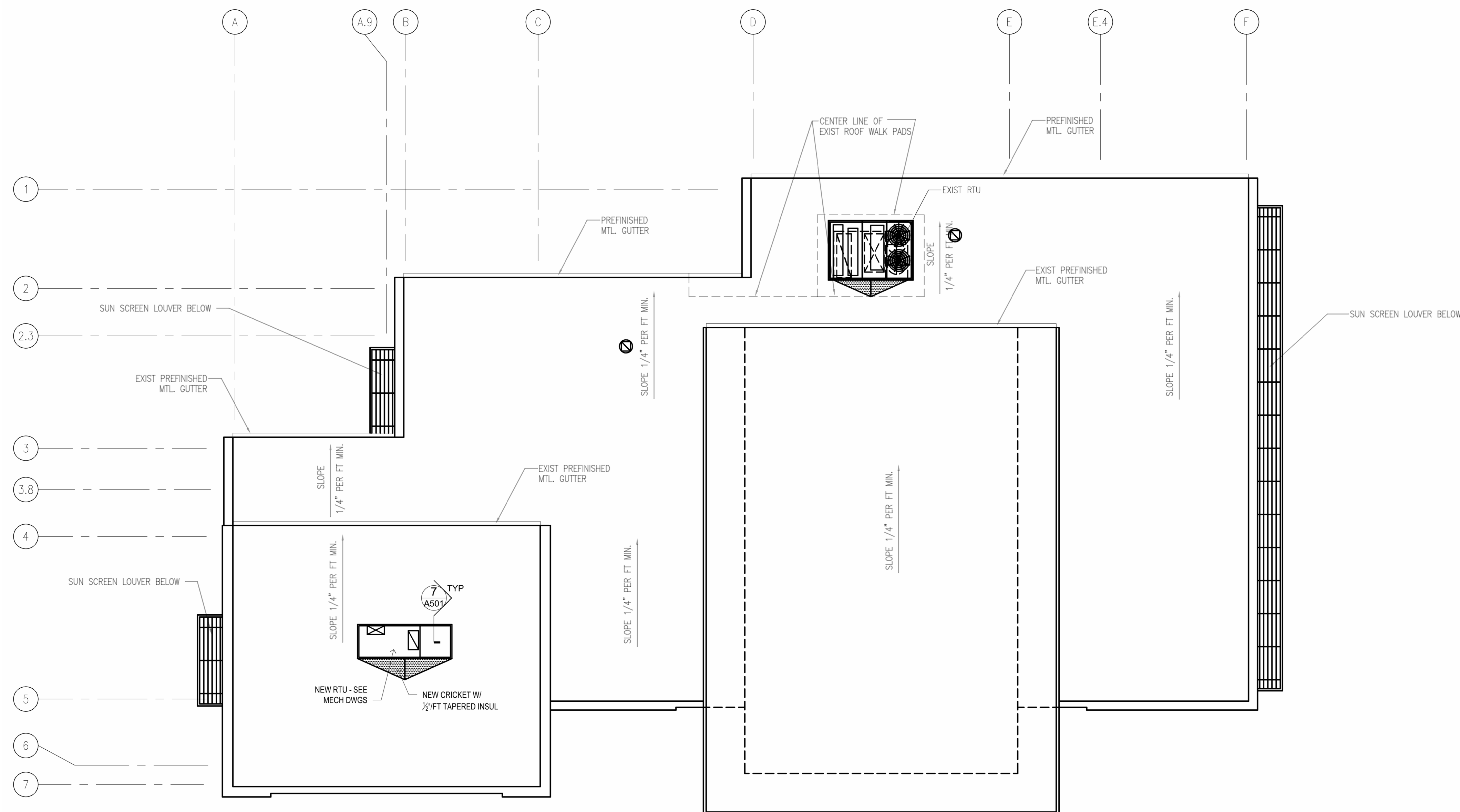
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DESIGNED BY: GSS

SHEET TITLE:  
ROOF PLAN

SHEET NUMBER:

**A-102**

3 OF 17 SHEETS  
05/01/2026



- NOTES:
1. ROOFING & FLASHING SHALL BE REMOVED AND REPAIRED AS REQUIRED TO INSTALL ROOF TOP EQUIPMENT
  2. CURB FLASHING & ROOFING SYSTEM TO BE WITH MATERIALS PER ORIGINAL ROOF MANUFACTURERS STANDARD DETAILS FOR 20 YEAR ROOF WARRANTY
  3. OPENINGS FOR DUCT PENETRATIONS TO BE FRAMED W/ TREATED WD BLOCKING & SPACE BETWEEN DUCT & OPENING EDGE SEALED WITH INSULATION

**A** ROOF PLAN - DE BUILDING  
SCALE: 1/8"=1'-0"





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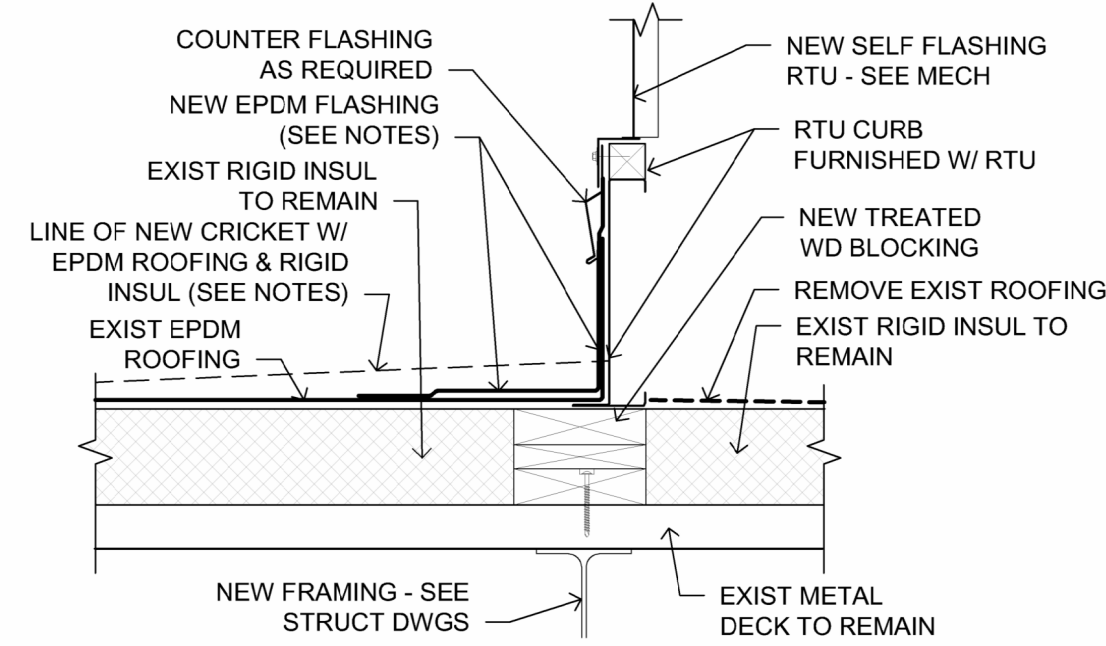
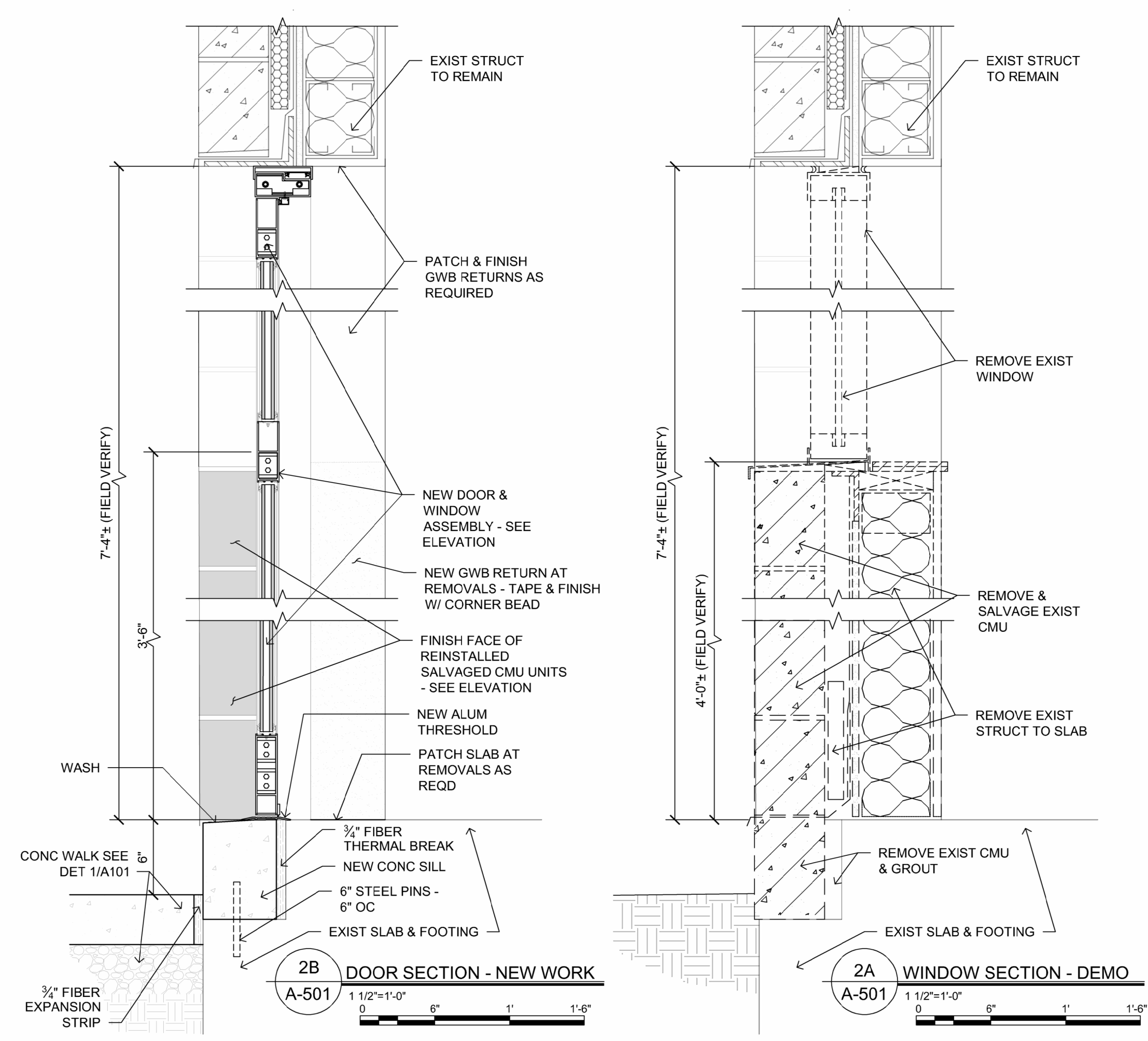
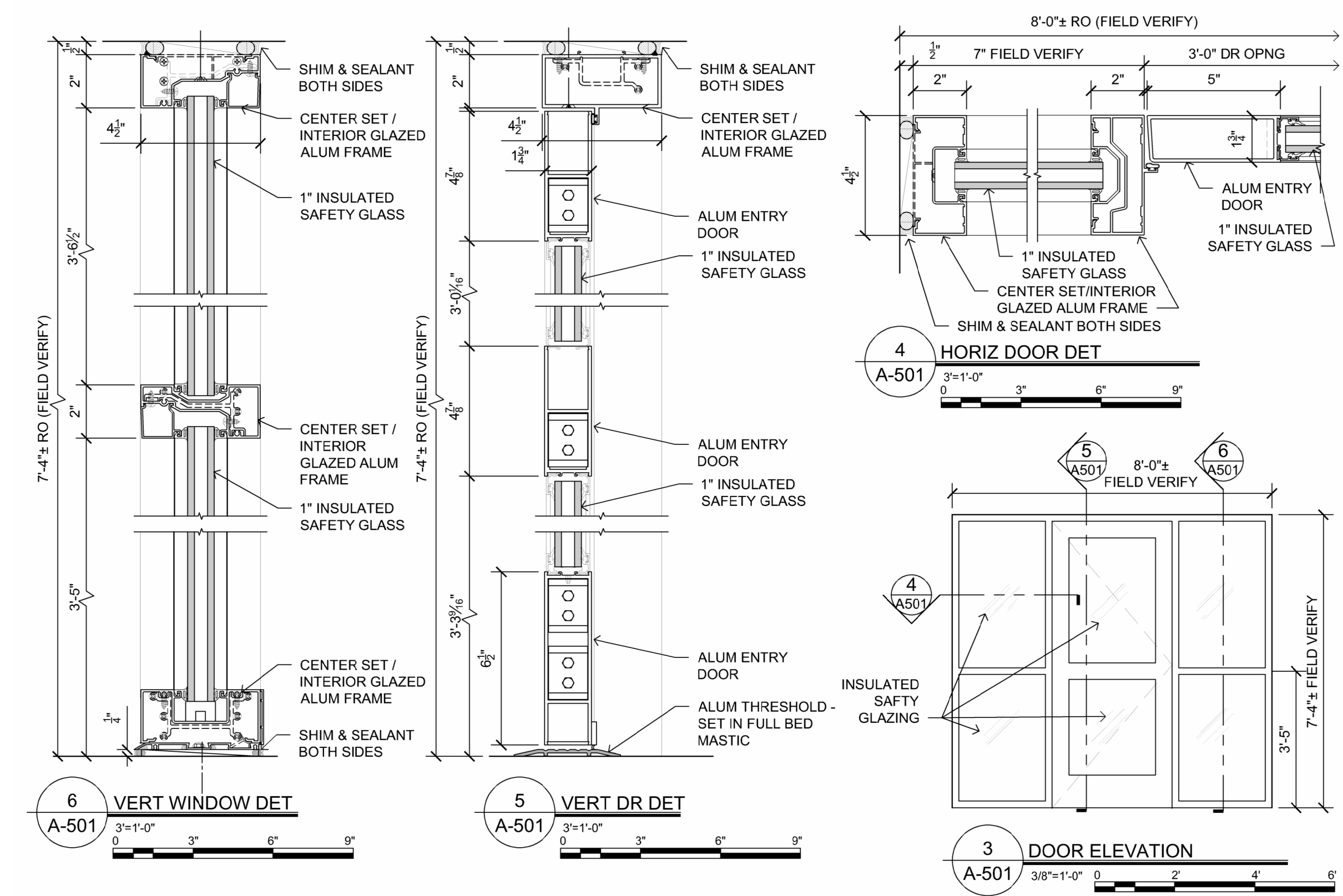
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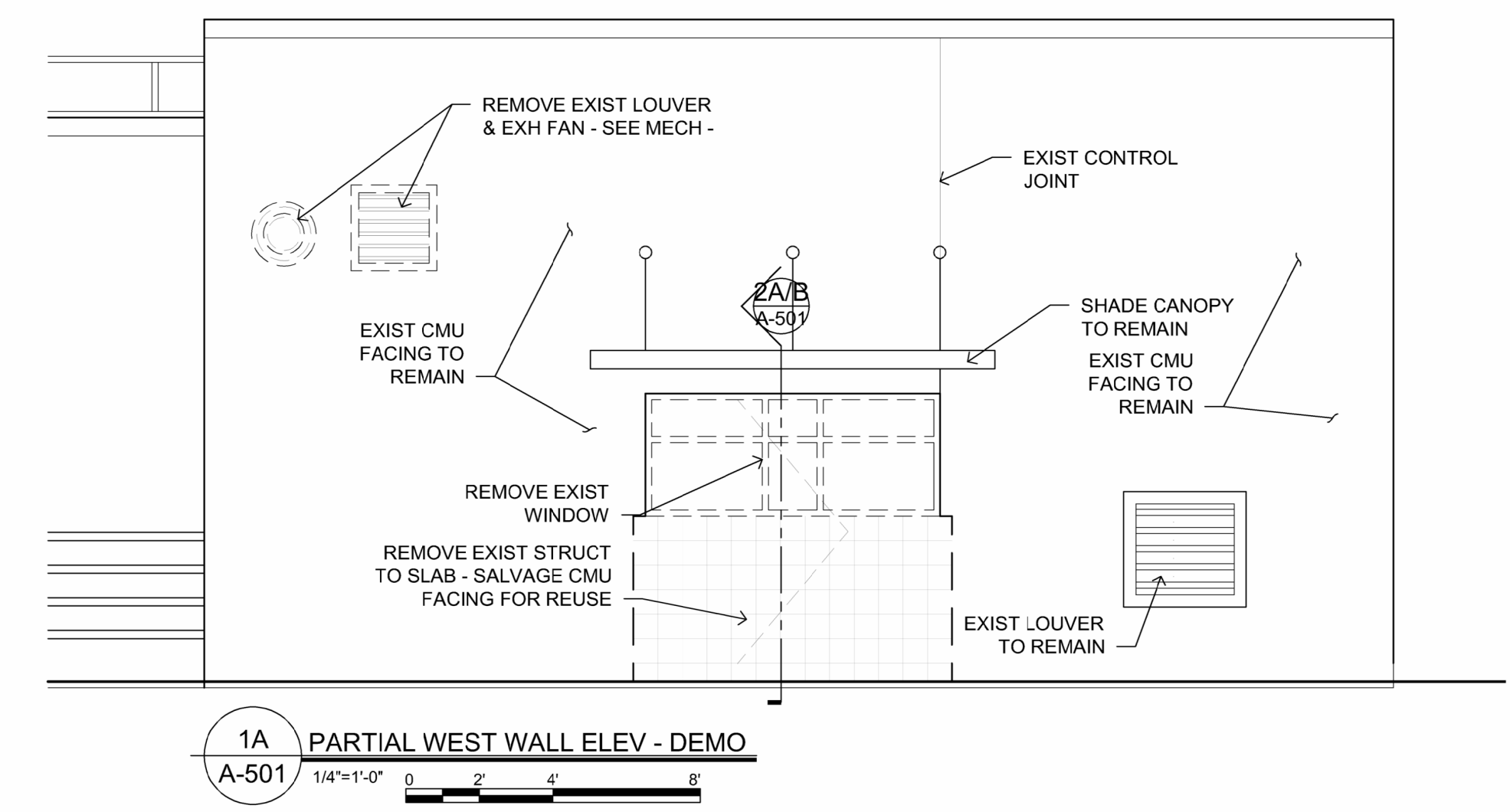
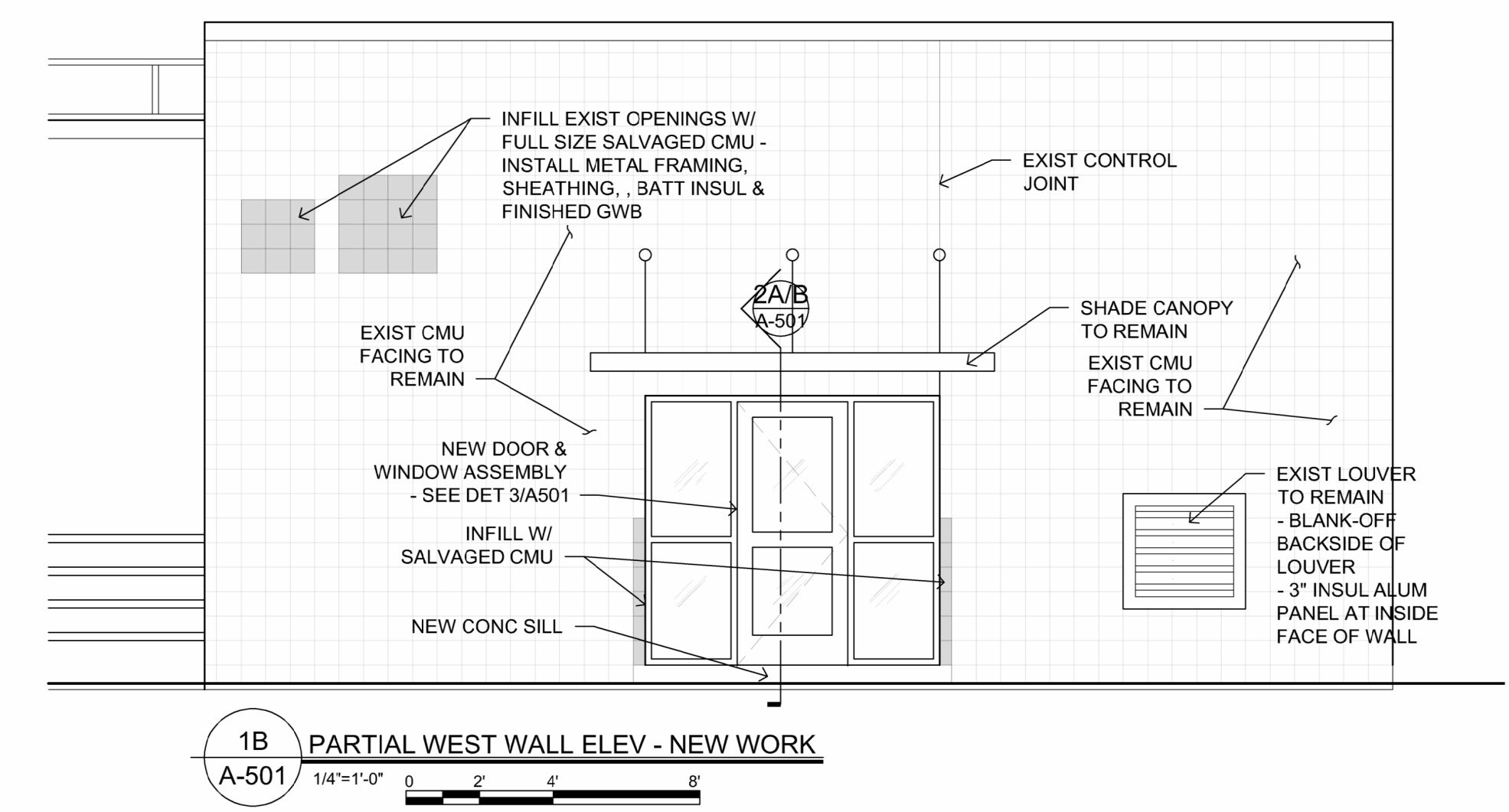
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DESIGNED BY: GSS

SHEET TITLE:  
**DETAILS**

SHEET NUMBER:  
**A-501**  
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05/01/2026



- NOTES:
- WOOD NAILERS MUST EXTEND BEYOND METAL CURB FLANGE IN ALL DIRECTIONS.
  - CURB FLASHING & ROOFING SYSTEM TO BE WITH MATERIALS PER ORIGINAL ROOF MANUFACTURERS STANDARD DETAILS FOR 20 YEAR ROOF WARRANTY
  - OPENINGS FOR DUCT PENETRATIONS TO BE FRAMED W/ TREATED WD BLOCKING & SPACE BETWEEN DUCT & OPENING EDGE SEALED WITH INSULATION





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CAD DWG FILE: \_\_\_\_\_  
DRAWN BY: GSS  
CHECKED BY: GSS  
DESIGNED BY: GSS

SHEET TITLE:  
**REFLECTED CEILING  
PLAN**

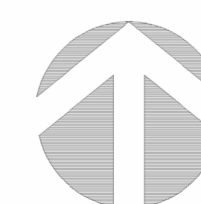
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**A-701**

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05/01/2026



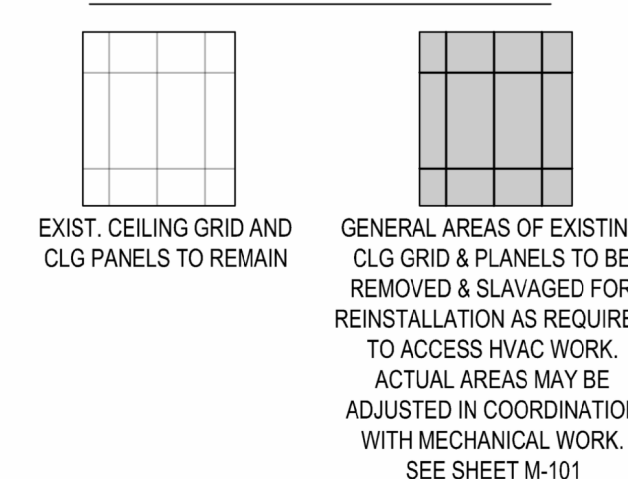
**A REFLECTED CEILING PLAN**  
SCALE: 1/8"=1'-0"

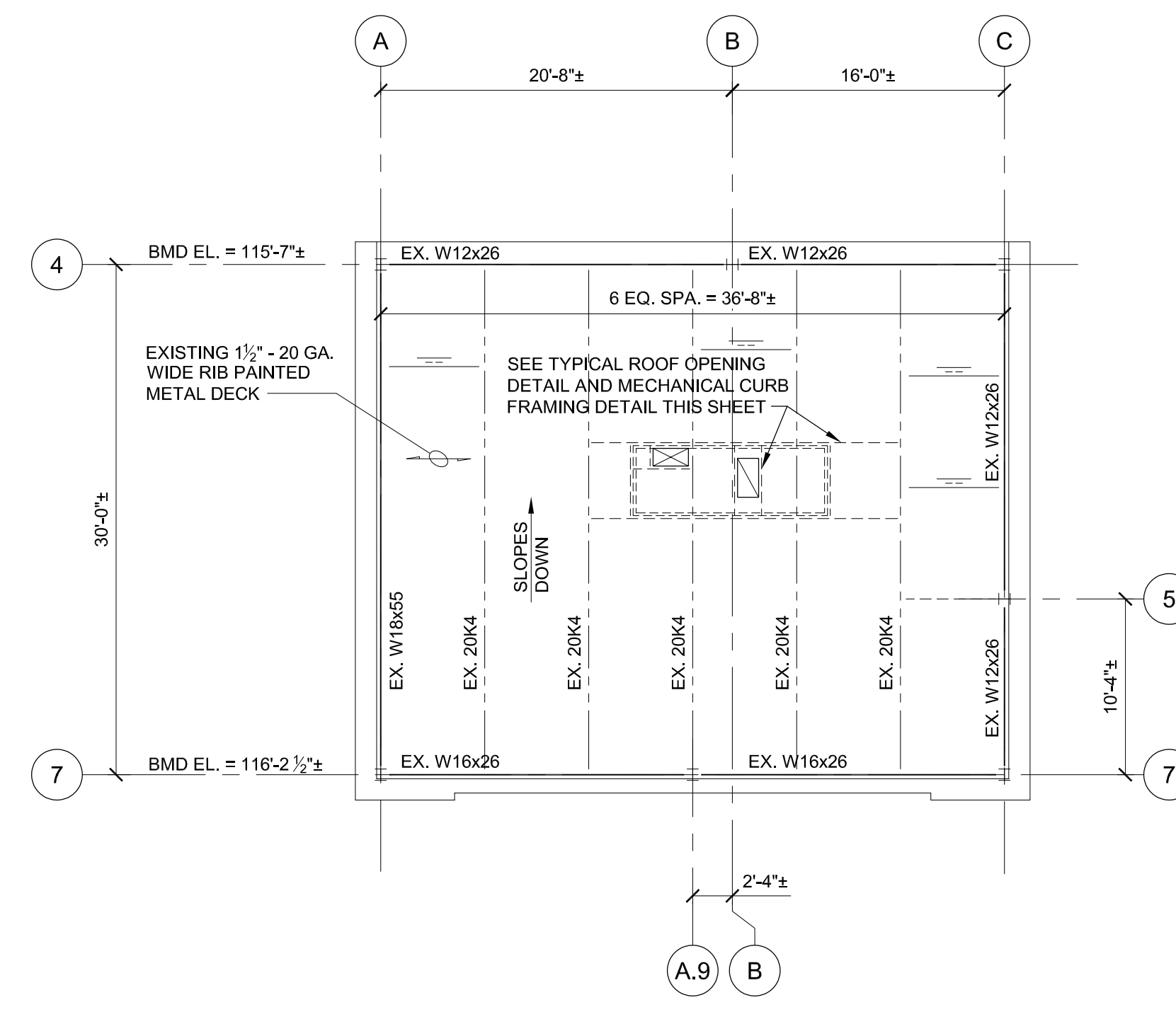


**CEILING NOTES**

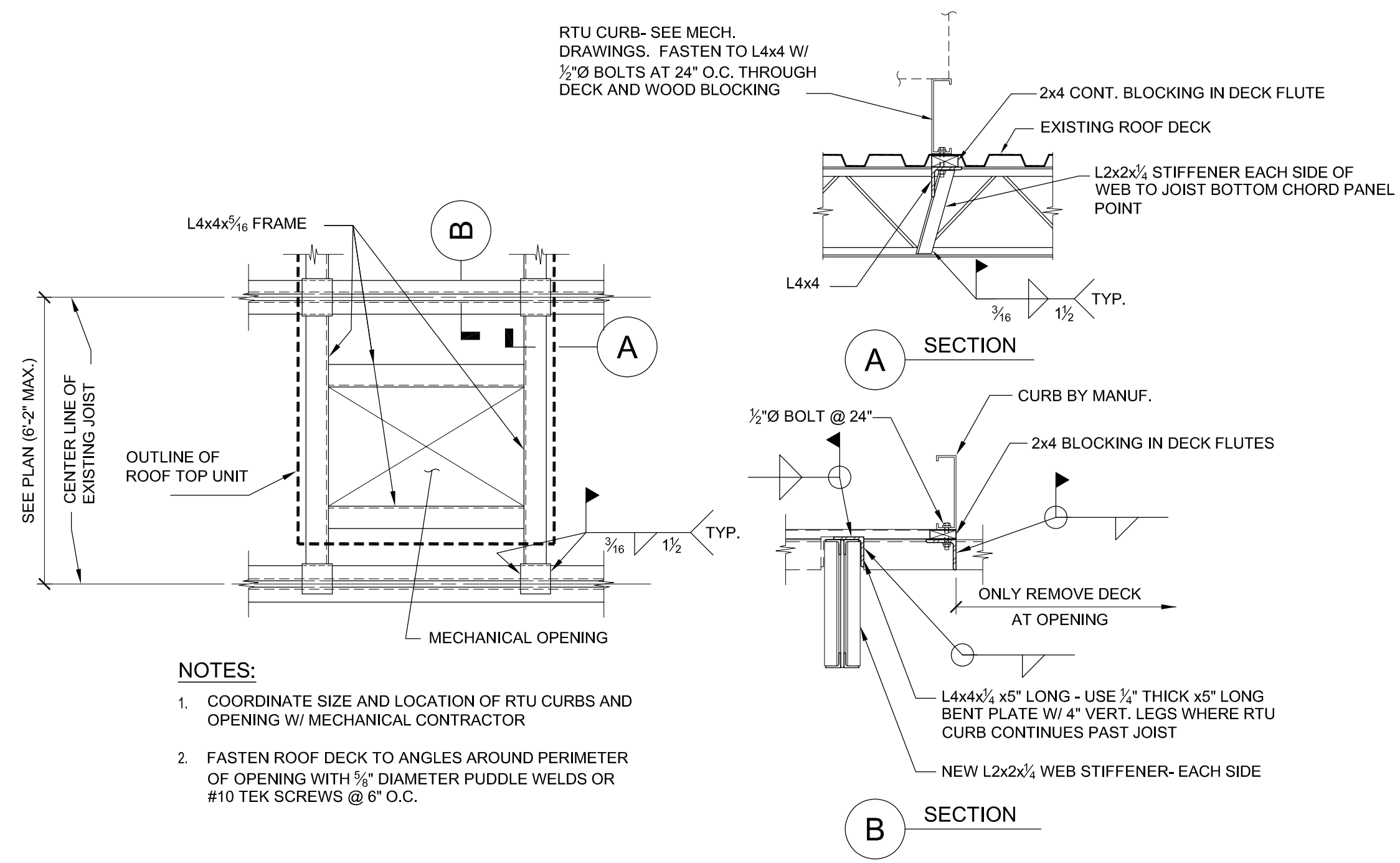
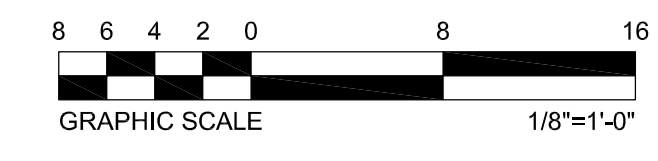
1. THE OWNER WILL CONTINUE OCCUPANCY THROUGHOUT CONSTRUCTION. GIVE OWNER 3 WEEK NOTICE OF AREAS THAT MUST BE VACATED FOR CONSTRUCTION & COORDINATE CONSTRUCTION WITH OWNER'S SCHEDULE. REINSTALL CEILINGS IMMEDIATELY AFTER HVAC WORK IS COMPLETED.
2. PROTECT OR TEMPORARILY MOVE AND PROTECT FURNISHINGS DURING CONSTRUCTION IN AN AREA. REINSTALL FURNISHINGS FOR OWNER'S REOCCUPANCY.
3. CEILINGS SHOWN FOR REMOVAL, SALVAGE AND REINSTALLATION SHALL BE HANDLED WITH WHITE GLOVES & PROTECTED FROM SOILING AND DAMAGE. ALL CEILINGS REMAINING IN PLACE SHALL BE PROTECTED.
4. IF THE QUANTITY OF USABLE UNDAMAGED CLG PANELS IS INADEQUATE TO COMPLETE A SPACE, NEW PANELS SHALL BE INSTALLED. UNDAMAGED, UNUSED PANELS SHALL BE TURNED OVER TO THE OWNER.
5. OWNER HAS ATTIC STOCK OF CEILING PANELS ON SITE FOR POTENTIAL CONTRACTOR USE. COORDINATE WITH OWNER AND DETERMINE AVAILABLE QUANTITIES & IF ATTIC STOCK MATCHES EXISTING CEILING PANELS TO BE REPLACED BEFORE USE.
6. TEMPORARILY SUPPORT LIGHTING FIXTURES DURING HVAC WORK.

**LEGEND**





**A PARTIAL HIGH ROOF FRAMING PLAN**  
1/8"=1'-0"



**TYPICAL ROOF OPENING DETAIL AND MECHANICAL CURB FRAMING DETAIL**  
NO SCALE

**STRUCTURAL STEEL:**

- STEEL SHALL CONFORM TO THE FOLLOWING GRADES:
  - A. ALL CHANNELS, ANGLES, BASE PLATES, CONN. PLATES (U.N.O.) . . . . . A36
  - B. ALL W-SHAPES . . . . . A992
  - C. STRUCTURAL STEEL PIPE . . . . . A53 (fy=35)
  - STRUCTURAL HOLLOW STEEL SECTIONS . . . . . A500, (fy=46)
- ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE (LATEST EDITION), EXCEPT AS MODIFIED IN THESE NOTES AND THE PROJECT SPECIFICATIONS.
- CONNECTIONS MAY BE BOLTED OR WELDED. THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF CONNECTIONS NOT SHOWN ON THE DRAWINGS. GENERALLY, CONNECTIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE SCHEMATIC AND ARE ONLY INTENDED TO SHOW THE RELATIONSHIP OF MEMBERS CONNECTED. ANY CONNECTION THAT IS NOT SHOWN OR IS NOT COMPLETELY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED, RETAINED BY THE FABRICATOR. IT IS THE RESPONSIBILITY OF THE FABRICATOR TO PROVIDE ALL STIFFENER PLATES, ETC., THAT MAY BE REQUIRED IN ADDITION TO THOSE SHOWN IN THE STRUCTURAL SCHEMATIC DETAILS TO ENSURE THAT THE MEMBERS CONNECTED TOGETHER HAVE ADEQUATE STRENGTH AT THE CONNECTION. COMPLETELY DETAILED MEANS THE FOLLOWING INFORMATION IS SHOWN ON THE DETAIL.
  - A. ALL PLATE DIMENSIONS AND GRADES.
  - B. ALL WELD SIZES, LENGTHS, PITCHES, AND RETURNS.
  - C. ALL HOLE SIZES AND SPACINGS.
  - D. NUMBER AND TYPES OF BOLTS: WHERE BOLTS ARE SHOWN BUT NO NUMBER IS GIVEN, THE CONNECTION HAS NOT BEEN COMPLETELY DETAILED.
  - E. WHERE PARTIAL INFORMATION IS GIVEN, IT SHALL BE THE MINIMUM REQUIREMENT FOR THE CONNECTION.

DESIGN CALCULATIONS, SIGNED AND SEALED BY FABRICATORS REGISTERED PROFESSIONAL ENGINEER, FOR ALL COLUMN, GIRDER AND BEAM CONNECTIONS AND ALL PRIMARY BRACING AND HANGER CONNECTIONS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. DESIGN CALCULATIONS MUST ACCOMPANY THE STEEL SHOP DRAWINGS IN ORDER FOR THE SUBMITTAL TO BE CONSIDERED COMPLETE. INCOMPLETE STEEL SHOP DRAWINGS WILL BE REJECTED AND RETURNED.
- CONNECTIONS SHALL BE DESIGNED FOR ONE-HALF OF THE ALLOWABLE LOAD ON THE MEMBER, AS DEFINED IN THE AISC TABLES FOR ALLOWABLE LOADS ON BEAMS AS W<sub>2</sub>L OR THE REACTIONS SHOWN ON THE DRAWINGS, WHICHEVER IS GREATER.
- FOR ALL COMPOSITE BEAMS USING CONCRETE SLAB AS COMPRESSIVE FLANGE, THE BEAM-TO-BEAM AND BEAM-TO-COLUMN CONNECTIONS SHALL DEVELOP THE END REACTION OF THE CONNECTED COMPOSITE BEAM. THE END REACTION OF THE CONNECTED BEAM CAN BE OBTAINED BY MULTIPLYING UNIFORM LOAD END REACTIONS GIVEN IN THE AISC MANUAL, LATEST EDITION, BY THE FOLLOWING FACTORS:
 

AT 2' METAL DECK:	
W12 OR LESS . . . . .	2.3
W14 AND W16 . . . . .	2.0
W18 OR DEEPER . . . . .	2.0
- MEMBER FORCES ARE SHOWN ON THE DRAWINGS AS FOLLOWS:
  - P = AXIAL FORCE IN KIPS (+) = TENSION, (-) = COMPRESSION
  - V = SHEAR IN KIPS
  - M = MOMENT IN FOOT-KIPS

THESE FORCES HAVE BEEN REDUCED IN CONFORMANCE WITH CODE PROVISIONS RELATED TO TEMPORARY COMBINATIONS OF LOADINGS THAT INCLUDE WIND AND SEISMIC FORCES.
- MOMENT CONNECTIONS ARE SHOWN ON THE DRAWINGS, WHERE THE MOMENT MAGNITUDE IS NOT SHOWN, THE CONNECTIONS SHALL BE DESIGNED FOR THE FULL MOMENT CAPACITY OF THE BEAM AND THE SHEAR VALUE OBTAINED FROM NOTE 4 ABOVE. SEE BEAM DESIGNATION KEY FOR MOMENT TYPES AND SYMBOLS.
- THE MINIMUM PLATE THICKNESS SHALL BE 3/8". THE MINIMUM ANGLE THICKNESS FOR CONNECTIONS SHALL BE 5/16". THE MINIMUM BOLT DIAMETER SHALL BE 3/4". THE MINIMUM WELD SHALL BE 1/4". THE MINIMUM SERVICE LOAD ON ANY CONNECTION SHALL BE 10 KIPS.
- PROVIDE WELDED STIFFENER PLATES ON BOTH SIDES OF THE WEB OF BEAMS AT POINTS OF CONCENTRATED LOADS, INCLUDING BEAMS SUPPORTING COLUMNS OR RUNNING OVER THE TOPS OF COLUMNS, OR GIRDERS AND AT THE LOCATIONS OF CHANGE OF SLOPE (KINKS) AT ANY MEMBER. MINIMUM STIFFENER PLATE THICKNESS SHALL BE 5/8" OR FLANGE THICKNESS OF THE COLUMN ABOVE OR BELOW, WHICHEVER IS GREATER.
- ALL STRUCTURAL STEEL EXPOSED TO VIEW ON THE INTERIOR OR EXTERIOR OF THE BUILDING SHALL CONFORM TO THE REQUIREMENTS OF THE AISC CODE OF STANDARD PRACTICE, SECTION 10, ARCHITECTURALLY EXPOSED STRUCTURAL STEEL.
- BOLTED CONNECTIONS:
  - A. SLIP-CRITICAL CONNECTIONS OF A325SS OR A490SS BOLTS SHALL BE USED FOR ALL BOLTED CONNECTIONS OF BRACING MEMBERS, MOMENT CONNECTIONS, CANTILEVERS, COLUMN SPLICES, TENSION MEMBERS, AND FOR ANY MEMBER WITH AXIAL FORCE AS SHOWN ON THE DRAWINGS. OVERSIZED AND LONG-SLOTTED HOLES ARE ALLOWED FOR SLIP-CRITICAL CONNECTIONS.
  - B. ALL OTHER BOLTED CONNECTIONS SHALL BE BEARING TYPE USING A325N OR A490N BOLTS. OVERSIZED HOLES AND LONG-SLOTTED HOLES ARE NOT ALLOWED UNLESS SHOWN ON THE DRAWINGS.
  - C. A307 BOLTS MAY BE USED WHERE INDICATED ON THE DRAWINGS.
  - D. PROTRUDING BOLT HEADS, SHAFTS OR NUTS SHALL NOT EXTEND INTO NOR PROHIBIT THE APPLICATION OF ARCHITECTURAL FINISHES AND THEY SHALL NOT EXTEND INTO NOR PROHIBIT THE PLACEMENT OF STEEL DECKING TO THE CORRECT LINE AND ELEVATION.
  - E. THE FABRICATOR IS RESPONSIBLE FOR VERIFYING THE TENSION CAPACITY OF AXIALLY LOADED MEMBERS AFTER A SECTION IS REDUCED FOR BOLT HOLES. MEMBER SIZE MAY BE INCREASED OR CONNECTION PLATES ADDED AS REQUIRED.
  - F. SHOP DRAWINGS SHALL INDICATE THE TYPE OF BOLT USED IN EACH CONNECTION AND THE ALLOWABLE VALUES USED FOR THE VARIOUS BOLT TYPES.
  - G. THE FABRICATOR SHALL PROVIDE FILLER PLATES BETWEEN ALL DOUBLE ANGLES AT INTERVALS SUCH THAT THE SLENDERNESS RATIO OF A SINGLE ANGLE DOES NOT CONTROL.
- WELDED CONNECTIONS:
  - ALL WELDING SHALL BE IN ACCORDANCE WITH THE "STRUCTURAL WELDING CODE" (AWS D1.1) PUBLISHED BY THE AMERICAN WELDING SOCIETY. ELECTRODES FOR WELDING SHALL COMPLY WITH THE REQUIREMENTS OF TABLE 4.4.1 OF (AWS D1.1).
- ALL EXPOSED WELDS SHALL BE GROUND SMOOTH.
- SPLICING OF STEEL MEMBERS, UNLESS SHOWN ON THE DRAWINGS, IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
- NO CHANGE IN SIZE OR POSITION OF THE STRUCTURAL ELEMENTS SHALL BE MADE AND HOLES, SLOTS, CUTS, ETC. ARE NOT PERMITTED THROUGH ANY MEMBER UNLESS THEY ARE DETAILED ON THE APPROVED SHOP DRAWINGS.
- NO FINAL BOLTING OR WELDING SHALL BE MADE UNTIL AS MUCH OF THE STRUCTURE AS WILL BE STIFFENED THEREBY HAS BEEN PROPERLY ALIGNED.
- UNLESS NOTED OTHERWISE, BEAMS SHALL BEAR 8" MINIMUM ON CONCRETE OR MASONRY. ANCHOR BOLTS TO MASONRY WITH A GOVERNMENT-TYPE ANCHOR.
- FABRICATE ALL BEAMS WITH THE MILL CAMBER UP U.N.O.

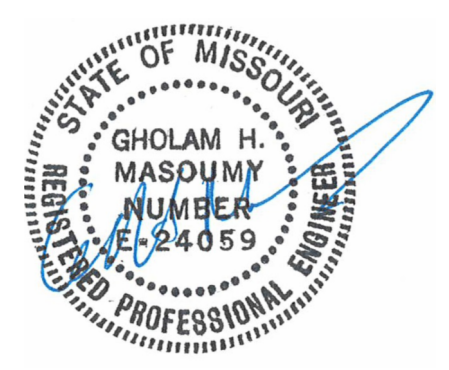
**19. EXPANSION BOLTS:**

UNLESS NOTED OTHERWISE, EXPANSION BOLTS SHALL HAVE THE FOLLOWING MINIMUM SERVICE LOAD CAPACITIES WHEN DRILLED INTO CONCRETE WITH A MINIMUM DESIGN STRENGTH OF 4000 PSI. SERVICE LOAD CAPACITIES SHALL PROVIDE FOR A MINIMUM FACTOR OF SAFETY OF 4.

DIAMETER	SHEAR	TENSION
1/2"	2080 LBS.	1380 LBS.
3/4"	4280 LBS.	2540 LBS.

SEE SPECIFICATIONS

- ALL EXPOSED STRUCTURAL STEEL IS TO BE PREPARED FOR ARCHITECTURAL FINISHES ACCORDING TO AISC CODE OF STANDARD PRACTICE, SECTION 10, ARCHITECTURALLY EXPOSED STRUCTURAL STEEL.
- ALL STEEL EXPOSED TO WEATHER SHALL BE HOT-DIPPED GALVANIZED.
- HOT-DIPPED GALVANIZED FINISH: FILL VENT AND DRAIN HOLES THAT ARE EXPOSED TO VIEW OR WEATHER IN THE FINISHED WORK, UNLESS THEY FUNCTION AS WEEP HOLES, BY PLUGGING WITH ZINC SOLDER AND FILING OFF SMOOTH.
- TOUCH UP ALL FIELD WELDS ON GALVANIZED SURFACES WITH GALVANIZING REPAIR PAINT.



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ISSUE DATE: 05/01/2026

CAD DWG FILE: \_\_\_\_\_  
DRAWN BY: JJJ \_\_\_\_\_  
CHECKED BY: GHM \_\_\_\_\_  
DESIGNED BY: JYW \_\_\_\_\_

SHEET TITLE:  
**STRUCTURAL HIGH  
ROOF PLAN**  
**DE BUILDING**

SHEET NUMBER:

**S-101**





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CAD DWG FILE: \_\_\_\_\_  
DRAWN BY: ASF  
CHECKED BY: GEB  
DESIGNED BY: JPR

SHEET TITLE:  
MECHANICAL DEMO  
DE BUILDING

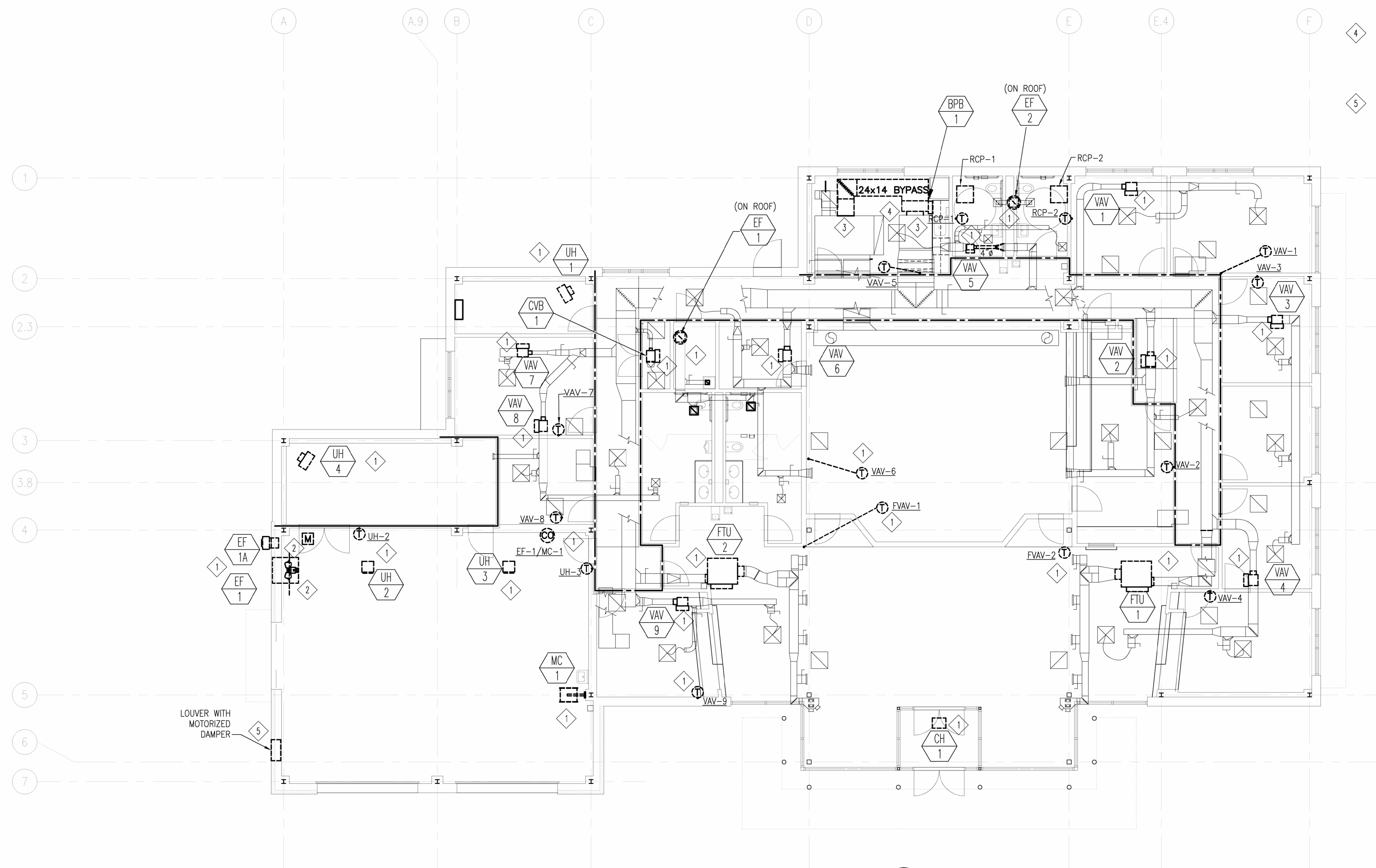
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**MD101**

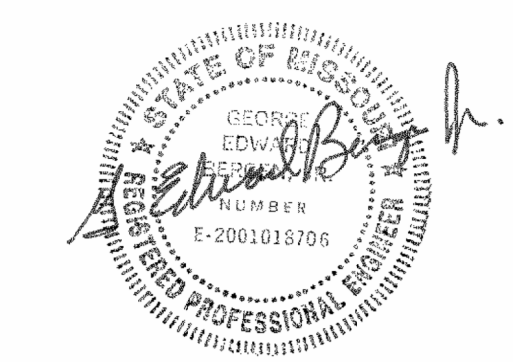
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05/01/2026

KEYED NOTES

- 1 DISCONNECT AND REMOVE DASHED MECHANICAL EQUIPMENT, CONTROL DEVICES, AND APPURTENANCES SHOWN DARK. TRIM AND CLEAN SURROUNDING DUCTWORK AS NECESSARY TO FACILITATE THE REMOVAL AND REPLACEMENT OF EQUIPMENT. COORDINATE WITH ELECTRICAL.
- 2 COORDINATE WITH ARCHITECT ON THE REMOVAL OF EXHAUST FANS AND PATCHING OF THE WALL OPENINGS.
- 3 DISCONNECT AND REMOVE BYPASS DUCT AND DAMPER. PATCH DUCT OPENINGS AIRTIGHT.
- 4 DISCONNECT AND REMOVE EXISTING PACKAGED ROOFTOP UNIT ON ROOF ABOVE. PREPARE FOR INSTALLATION OF NEW RTU.
- 5 EXISTING LOUVER TO REMAIN. DISCONNECT AND REMOVE MOTORIZED DAMPER AND BLANK OFF LOUVER AIR TIGHT.



**A** HVAC DEMO PLAN - DE BUILDING  
SCALE: 1/8"=1'-0"



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OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND CONSTRUCTION

UPGRADE HVAC & CONTROL  
SYSTEMS, DE/MVI BUILDING

TROOP C CDL SUPER SITE  
ST. LOUIS COUNTY, MISSOURI

PROJECT # R2513-01  
SITE # 6019  
FACILITY # 8136019010

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: 05/01/2026

CAD DWG FILE: \_\_\_\_\_  
DRAWN BY: ASF  
CHECKED BY: GEB  
DESIGNED BY: JPR

SHEET TITLE:  
**HVAC FLOOR PLAN  
DE BUILDING**

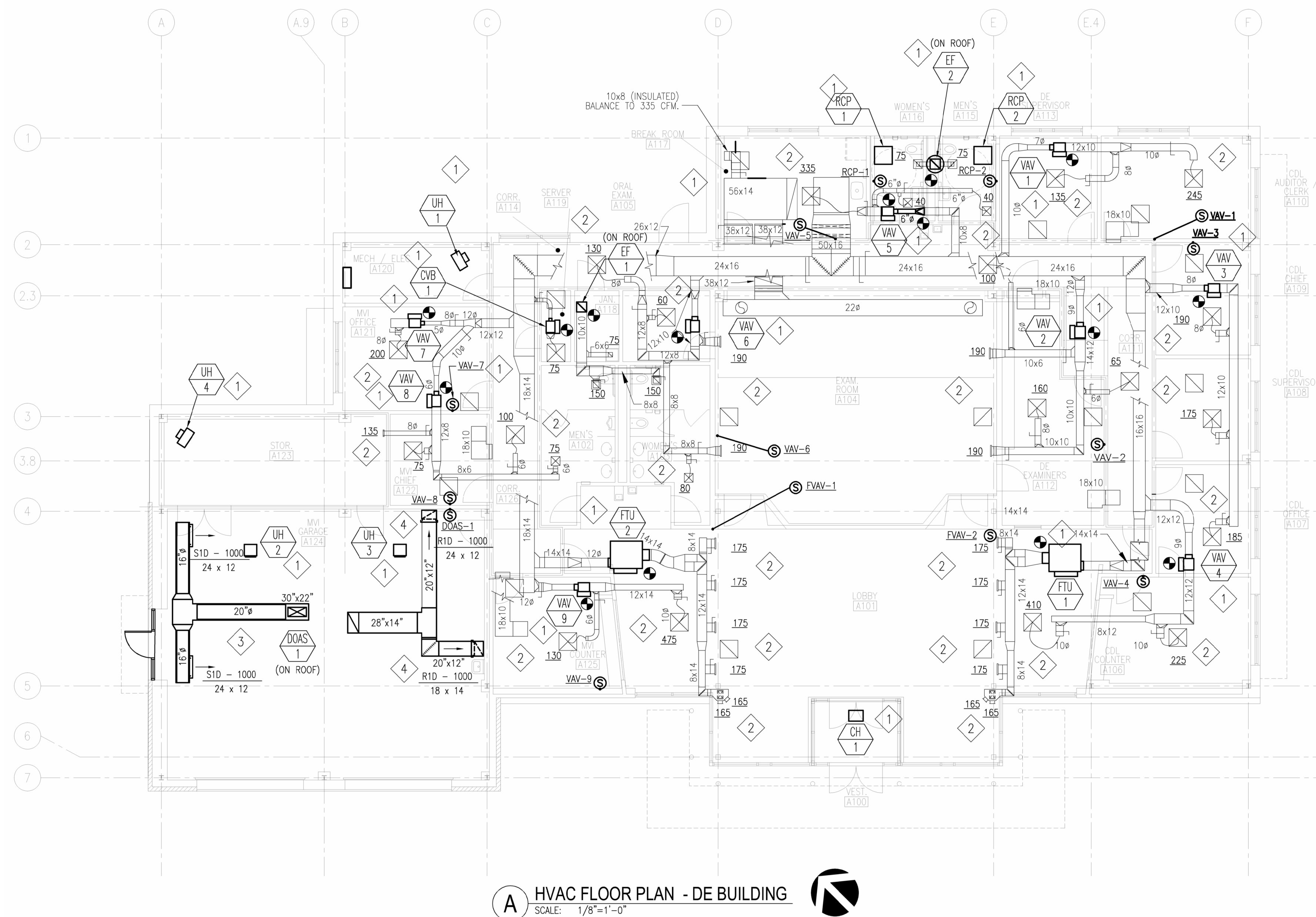
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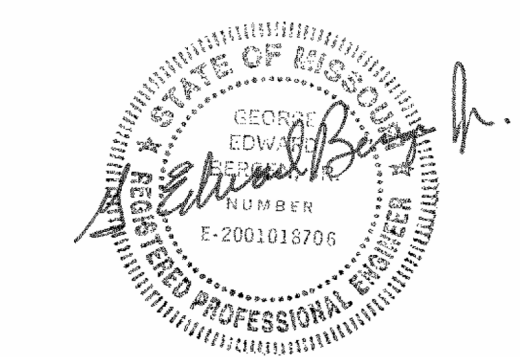
9 OF 19 SHEETS  
05/01/2026

KEYED NOTES

- 1 FURNISH AND INSTALL NEW HVAC EQUIPMENT SHOWN DARK. CONNECT TO EXISTING DUCTWORK AND BALANCE EQUIPMENT TO VALUE LISTED IN EQUIPMENT SCHEDULE ON SHEET M-601. INSTALL THERMOSTAT AS SHOWN. COORDINATE POWER WITH ELECTRICAL.
- 2 BALANCE THE EXISTING AIR DEVICE TO UNDERLINED VALUE SHOWN.
- 3 PROVIDE NEW DOUBLE-WALL ROUND DUCTWORK SERVING DOAS-1 SUPPLY.
- 4 ROUTE DOAS-1 EXHAUST DUCTWORK TO WALL AND TURN DUCT DOWNWARD. RUN DUCTWORK ALONG WALL AND INSTALL EXHAUST GRILLE CENTERLINE 18" AFF.



**A** HVAC FLOOR PLAN - DE BUILDING  
SCALE: 1/8"=1'-0"



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DRAWN BY: ASF  
CHECKED BY: GEB  
DESIGNED BY: JPR

SHEET TITLE:  
HVAC ROOF PLAN  
DE BUILDING

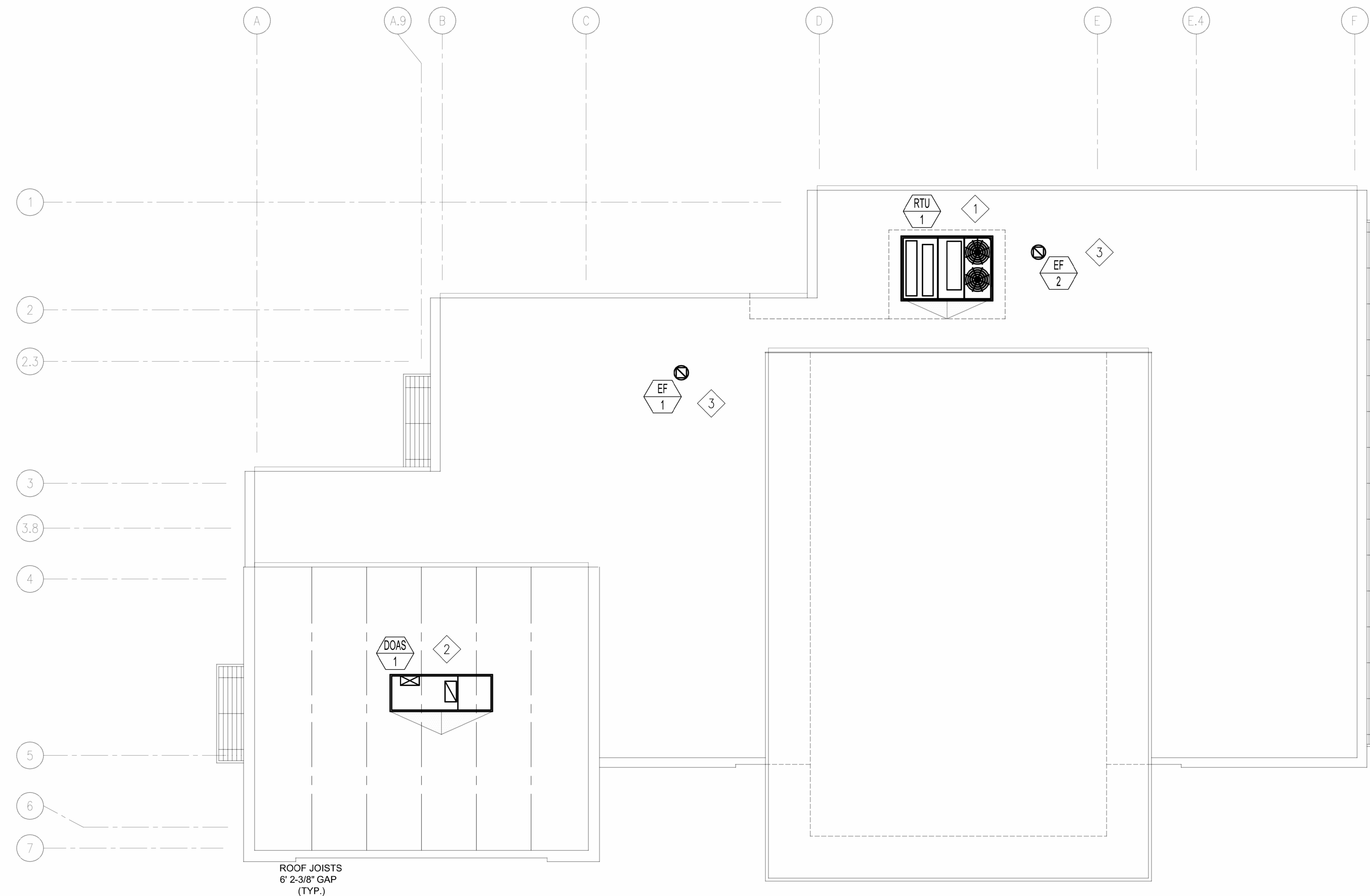
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10 OF 19 SHEETS  
05/01/2026

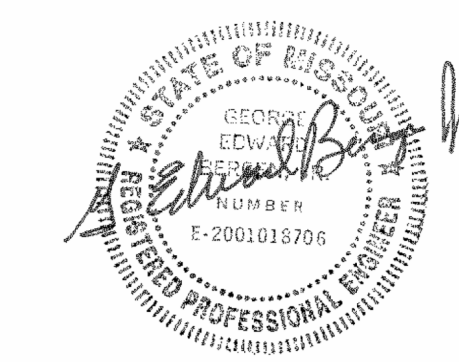
KEYED NOTES

- 1 FURNISH AND INSTALL NEW PACKAGED ROOFTOP UNIT AS SCHEDULED AND SPECIFIED ON EXISTING ROOF CURB. PROVIDE INSULATED CURB ADAPTER AS NECESSARY. ORIGINAL UNIT: TRANE TCD-211C3, S/N 746101479D. COORDINATE WITH ELECTRICAL.
- 2 FURNISH AND INSTALL NEW DEDICATED OUTSIDE AIR SYSTEM AS SCHEDULED AND SPECIFIED ON MANUFACTURER SUPPLIED ROOF CURB. COORDINATE WITH ELECTRICAL, STRUCTURAL, AND ARCHITECTURAL.
- 3 FURNISH AND INSTALL NEW EXHAUST FAN ON EXISTING CURB. COORDINATE WITH ELECTRICAL.



**A** HVAC ROOF PLAN - DE BUILDING - TOTAL AREA : 7600 SF  
SCALE: 1/8"=1'-0"





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DESIGNED BY: JPR

SHEET TITLE:  
**HVAC FLOOR PLAN  
MVI BUILDING**

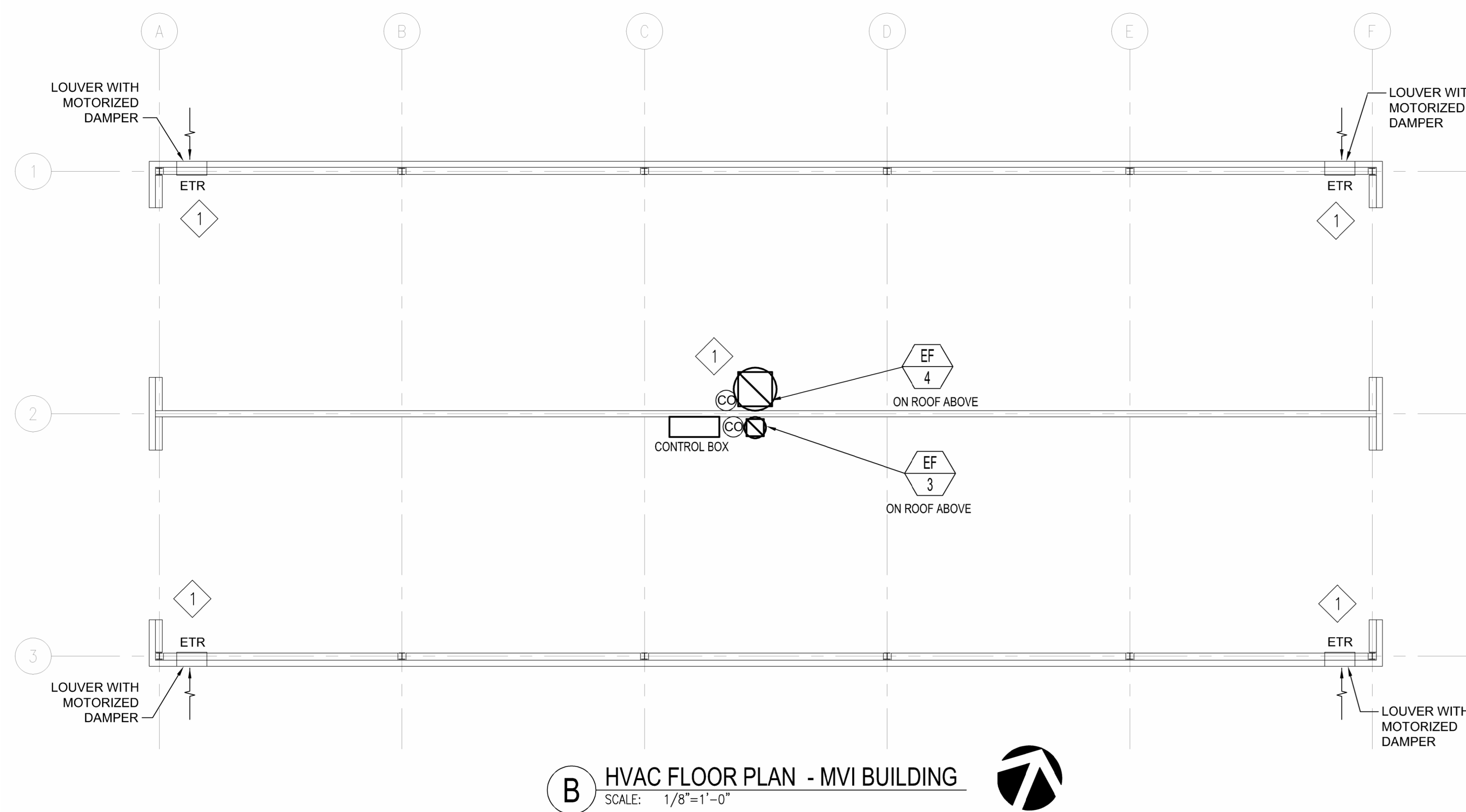
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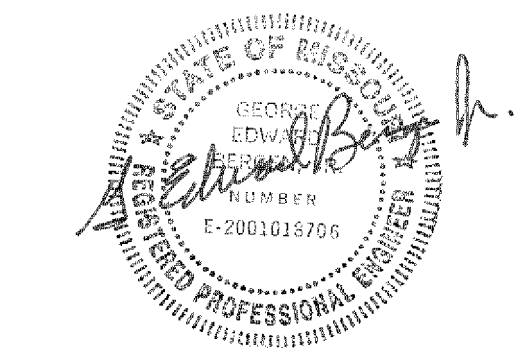
11 OF 19 SHEETS  
05/01/2026

KEYED NOTES

- 1 REMOVE AND REPLACE EXISTING VENTILATION SYSTEM FOR DETACHED GARAGE, INCLUDING EXHAUST FANS, GAS SENSOR, AND CONTROL BOX. EXISTING LOUVERS AND MOTORIZED DAMPERS SHALL REMAIN. FOLLOW PROVISIONS FROM IMC SECTION 404. PROVIDE ADDITIONAL SENSOR FOR OTHER TRUCK BAY.







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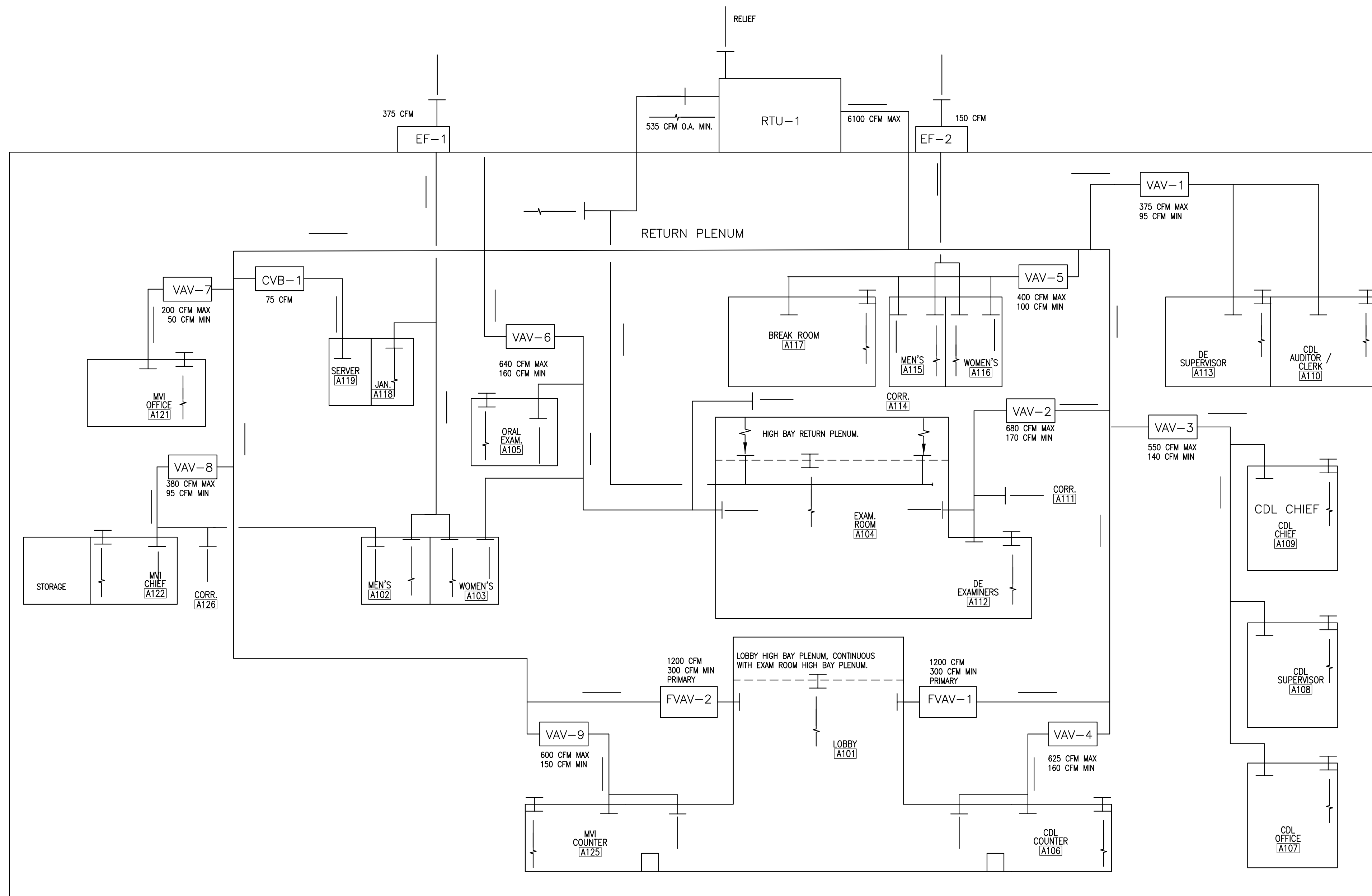
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SHEET TITLE:  
HVAC AIR FLOW  
DIAGRAM

SHEET NUMBER:

**M-602**

13 OF 19 SHEETS  
05/01/2026



**A** HVAC AIR FLOW DIAGRAM  
SCALE: NONE



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ISSUE DATE: 05/01/2026

CAD DWG FILE: \_\_\_\_\_  
DRAWN BY: ASF  
CHECKED BY: MJC  
DESIGNED BY: MJC

SHEET TITLE:

ELECTRICAL  
LEGEND

SHEET NUMBER:

E-001

14 OF 19 SHEETS  
05/01/2026

ELECTRICAL SYMBOLS

LIGHTING FIXTURES

	2' x 4' FLUORESCENT RECESS MOUNTED
	2' x 4' FLUORESCENT SURFACE/PENDANT MOUNTED
	2' x 4' FLUORESCENT EMERGENCY LIGHT
	2' x 2' FLUORESCENT RECESS MOUNTED
	2' x 2' FLUORESCENT SURFACE/PENDANT MOUNTED
	2' x 2' FLUORESCENT EMERGENCY LIGHT
	1' x 4' FLUORESCENT RECESS MOUNTED
	1' x 4' FLUORESCENT SURFACE/PENDANT MOUNTED
	1' x 4' FLUORESCENT EMERGENCY LIGHT
	1' x 4' FLUORESCENT WALL MOUNTED EMERGENCY LIGHT
	1' x 4' FLUORESCENT WALL MOUNTED
	FLUORESCENT STRIP RECESS MOUNTED
	FLUORESCENT STRIP SURFACE/PENDANT MOUNTED
	INCANDESCENT, PL DOWN LIGHT, HIGH INTENSITY DISCHARGE TYPE FIXTURE, ETC. RECESS MOUNTED
	INCANDESCENT, PL DOWN LIGHT, HIGH INTENSITY DISCHARGE TYPE FIXTURE, ETC. SURFACE/PENDANT MOUNTED
	INCANDESCENT, PL DOWN LIGHT, HIGH INTENSITY W/EMERGENCY LIGHT DISCHARGE TYPE FIXTURE, ETC. WALL MOUNTED
	INCANDESCENT, PL FLUORESCENT LIGHT, HIGH INTENSITY W/EMERGENCY LIGHT DISCHARGE TYPE FIXTURE, ETC. WALL MOUNTED
	EXIT SIGN (INCANDESCENT/FLUORESCENT) CEILING MOUNTED
	EXIT SIGN (INCANDESCENT/FLUORESCENT) WALL MOUNTED END
	EXIT SIGN (INCANDESCENT/FLUORESCENT) WALL MOUNTED FLAT
	POLE MOUNTED LIGHTING FIXTURE (NUMBER OF HEADS AS SHOWN)

RECEPTACLES

	SINGLE CONVENIENCE OUTLET, WALL MOUNTED RECESSED +18" AFF
	DUPLEX CONVENIENCE OUTLET, WALL MOUNTED RECESSED +18" AFF
	DUPLEX CONVENIENCE OUTLET, WALL MOUNTED RECESSED ABOVE COUNTER +44" AFF
	DOUBLE DUPLEX CONVENIENCE OUTLET, WALL MOUNTED RECESSED +18" AFF
	DOUBLE DUPLEX CONVENIENCE OUTLET, WALL MOUNTED RECESSED ABOVE COUNTER +44" AFF
	3X DUPLEX CONVENIENCE OUTLET, WALL MOUNTED RECESSED +18" AFF
	SPECIAL PURPOSE OUTLET, WALL MOUNTED RECESSED +18" AFF SEE NOTE ON PLAN FOR SIZE
	FLOOR MOUNTED OUTLET, SEE PLAN FOR TYPE AND SIZE
	WALL MOUNTED JUNCTION BOX WITH FINISHED BLANK COVER PLATE, WALL MOUNTED RECESSED +18" AFF
	JUNCTION BOX ABOVE CEILING

CODES AND STANDARDS

- 2014 NATIONAL ELECTRICAL CODE (NEC)
- 2015 UNIFORM PLUMBING CODE (UPC)
- 2015 INTERNATIONAL BUILDING CODE (IBC)
- 2015 INTERNATIONAL EXISTING BUILDING CODE
- 2015 INTERNATIONAL MECHANICAL CODE
- 2015 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)

COMMUNICATION DEVICES

T	TELEPHONE OUTLET WALL MOUNTED +18"
TV	TELEVISION ANTENNA OUTLET WALL MOUNTED +18"
D	DATA OUTLET (COMPUTER) WALL MOUNTED +18"
IM	INTERCOM MASTER STATION OUTLET
I	INTERCOM OUTLET WALL MOUNTED +18"
M	MICROPHONE OUTLET WALL MOUNTED +18"
TD	COMBINATION TELEPHONE AND DATA OUTLET WALL MOUNTED +18"
TV	TELEVISION ANTENNA OUTLET WALL MOUNTED +18"
CCTV	CLOSED CIRCUIT TELEVISION CAMERA
MC	MAGNETIC CONTACTS
ML	MAGNETIC LOCK
CT	TELEPHONE OUTLET FLOOR MOUNTED
CD	DATA OUTLET FLOOR MOUNTED
CM	INTERCOM MASTER STATION OUTLET FLOOR MOUNTED
CI	INTERCOM OUTLET FLOOR MOUNTED
CM	MICROPHONE OUTLET FLOOR MOUNTED
CTD	COMBINATION TELEPHONE AND DATA OUTLET FLOOR MOUNTED
CTV	TELEVISION ANTENNA OUTLET FLOOR MOUNTED
CB	PUSH-BUTTON WALL MOUNTED +48"
CB	MUSHROOM HEAD/EMERGENCY PUSH BUTTON
CB	SPEAKER CEILING MOUNTED
CB	SPEAKER WALL MOUNTED +7'-4"
CB	SPEAKER VOLUME CONTROL WALL MOUNTED +4'-6"
CB	PROGRAM BELL WALL MOUNTED +7'-4"
CB	NEW ACCESS CONTROL SYSTEM OUTLET BOX AND COVER
CB	NEW DATA DEVICE. NUMERAL INDICATES NUMBER OF DATA JACKS (DROPS)
BT	NEW BASKET TRAY FOR LOW VOLTAGE SYSTEMS

FIRE ALARM

FA	PULL STATION WALL MOUNTED +4'-4"
FA	FIRE ACTION PULL STATION WALL MOUNTED +4'-4"
FA	COMBINATION ALARM HORN AND VISUAL DEVICE WALL MOUNTED +6'-2"
FA	VISUAL DEVICE WALL MOUNTED +6'-5"
FA	ALARM SPEAKER CEILING MOUNTED
FA	FIRE ALARM RELAY
FA	HEAT DETECTOR FIXED TEMPERATURE
FA	HEAT DETECTOR RATE OF RISE
FA	WATER FLOW SWITCH
FA	TAMPER SWITCH
FA	SMOKE DETECTOR
FA	SMOKE DETECTOR DUCT MOUNTED
FA	FIRE ALARM CONTROL MODULE
FA	FIRE ALARM MONITOR MODULE

GENERAL PROJECT NOTES

1. THESE DOCUMENTS ARE NOT INTENDED TO DEPICT THE COMPLETE AND ENTIRE SYSTEM, BUT ARE TO DESIGN AND DETAIL THE INTENT OF THE REQUIRED SYSTEMS, EQUIPMENT AND SCOPE OF WORK FOR THIS PROJECT. THE PRECISE MEANS, METHODS, AND EXECUTION OF THESE DOCUMENTS ARE THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR(S).

GENERAL DEMOLITION NOTES

1. IN AREAS WHERE ELECTRICAL DEMOLITION OCCURS, DE-ENERGIZE AREA FOR DEMOLITION BY LABORERS. REMOVE ELECTRICAL DEVICES, CONDUIT AND WIRING BACK TO SERVICE PANELBOARD OR NEAREST POINT OF TERMINATION. MARK UNUSED BREAKERS AS "SPARE" AND PLACE HANDLE IN THE "OFF" POSITION.
2. REPLACE WIRING AND DEVICES FOR EXISTING CIRCUITS TO EQUIPMENT WHICH REMAINS FOLLOWING DEMOLITION WORK. IDENTIFY CIRCUITS TO REMAIN PRIOR TO BEGINNING DEMOLITION WORK. CAREFULLY AND SECURELY RE-SUPPORT BUILDING LIGHTING TO REMAIN IN USE WHILE CEILING SYSTEMS ARE BEING REPLACED.
3. PROTECT FIXTURES FROM DAMAGE DURING THE DEMOLITION PHASE. LIGHT FIXTURES SHALL BE INSTALLED AFTER THE NEW FINISHED CEILING IS INSTALLED.
4. MAKE SAFE FOR REMOVAL BY OTHERS BRANCH CIRCUITS AND DEVICES IN THE CEILINGS AND PARTITIONS TO BE DEMOLISHED WITHIN THE PHASED AREA LIMITS. HOMERUNS AND POWER AND LIGHTING BAY BOXES MOUNTED ABOVE THE FINISHED CEILING SHALL BE COMPLETELY REMOVED.
5. EXISTING POWER AND FIRE ALARM CIRCUITS ROUTED THROUGH THE DEMOLITION AREA, BUT SERVING DEVICES OUTSIDE THE PHASED AREA, ARE TO BE MAINTAINED AND REMAIN IN SERVICE.
6. EQUIPMENT REMOVAL IN CERTAIN LOCATIONS MAY REQUIRE THE INSTALLATION OF A JUNCTION BOX TO RECONNECT CIRCUITS THAT REMAIN IN OPERATION. EXTEND CONDUIT AND WIRING AS REQUIRED TO MAINTAIN POWER TO REMAINING EQUIPMENT.

ABBREVIATIONS

ACS	ACCESS CONTROL SYSTEM
A.F.F.	ABOVE FINISHED FLOOR
ATS	AUTOMATIC TRANSFER SWITCH
B.C.	BELOW CEILING
C	CONDUIT
CAM	CAMERA
CB	CIRCUIT BREAKER
CC	CONTROL CONTROLLER
CCTV	CLOSED CIRCUIT TELEVISION
CCW	COUNTER CLOCKWISE
CW	CLOCKWISE
DCU	DISTRIBUTED CONTROLLER UNIT
DN	DOWN
DP	DISTRIBUTION PANEL
DR	DOCTORS REGISTER
DT	DOUSTIGHT
DWG	DRAWING
ELC	ELECTRICAL CONTRACTOR
ELEC	ELECTRIC/ELECTRICAL
ER	EXISTING RELOCATED
ETR	EXISTING TO REMAIN
FA	FIRE ALARM
FAMP	FIRE ALARM ANNUNCIATOR PANEL
FAPF	FIRE ALARM CONTROL PANEL
FAC	FIRE ALARM DIGITAL COMMUNICATOR
FM	F/O WOODM
F/O	FIBER OPTIC
FS	FUSIBLE SWITCH
GF	GROUND FAULT
GFC	GROUND FAULT CIRCUIT INTERRUPTER
GRD	GROUND
GRS	GALVANIZED RIBBON STEEL
HH	HANDHOLE
I/O	INPUT/OUTPUT
LAN	LOCAL AREA NETWORK
LP	LIGHTING PANEL
MATV	MASTER ANTENNA TELEVISION
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CONTROL PANEL
MH	MANHOLE
MOD	MODULATOR
MT	EMPTY CONDUIT
NC	NOISE CALL
NL	NIGHT LIGHT
OE	OVERHEAD ELECTRIC
PA	PUBLIC ADDRESS
PI	PORTABLE INTERFACE
PIR	PASSIVE INFRARED
PP	POWER PANEL
PRL	PURK
PVC	POLYVINYL CHLORIDE CONDUIT
R	RECESSED
RF	RADIO FREQUENCY
RT	RANTIGHT
SHB	SHIELDED (AS IN CABLE)
SFS	SMART POWER SUPPLY
SWB	SWITCHBOARD
T	TELEPHONE
TYP.	TYPICAL
UNG	UNGROUND
UPS	UNINTERRUPTIBLE POWER SUPPLY
VT	VAPORTIGHT
WT	WATERIGHT
XP	EXPLOSION PROOF

POWER EQUIPMENT

	LIGHTING PANELBOARD
	DISTRIBUTION PANEL, M.C.C., ETC.
	VARIABLE FREQUENCY DRIVE
	FACTORY WIRED CONTROL PANEL
	TRANSFORMER, SEE PLAN FOR TYPE AND SIZE
	SINGLE PHASE MANUAL MOTOR STARTER WITH PILOT LIGHT
	DISCONNECT SWITCH
	SINGLE PHASE MAGNETIC STARTER
	THREE PHASE MAGNETIC STARTER
	COMBINATION MAGNETIC STARTER/DISCONNECT SWITCH
	208V, 3 PHASE MOTOR
	120V, 1 PHASE MOTOR

SWITCHES

	SINGLE POLE TOGGLE SWITCH
	3 WAY TOGGLE SWITCH
	4 WAY TOGGLE SWITCH
	PILOT LIGHTED TOGGLE SWITCH
	KEY OPERATED TOGGLE SWITCH
	SINGLE POLE DOUBLE THROW CENTER OFF TOGGLE SWITCH
	DIMMER SWITCH
	3 WAY DIMMER SWITCH
	NEW WALL MOUNTED OCCUPANCY SENSOR AT TOGGLE SWITCH HEIGHT
	NEW CEILING MOUNTED OCCUPANCY SENSOR
	NEW WALL MOUNTED OCCUPANCY SENSOR

WIRING SYMBOLS

	CAPPED CONDUIT
	CONDUIT DOWN
	CONDUIT UP
	CONDUIT CONCEALED IN SLAB
	CONDUIT EXPOSED
	CONDUIT CONCEALED IN WALL OR ABOVE CEILING
	WIREWAY / WIREBOLD

ELECTRICAL LOADS AND IMPACT TO SERVICE	
ESTIMATED EXISTING PEAK DEMAND LOAD (DERIVED FROM PREVIOUS PROJECT INFORMATION)	180.2 KW
MECHANICAL LOADS - DEMOLISHED EQUIPMENT	1,416 KW
<ul style="list-style-type: none"> <li>• EF-1A</li> <li>• EF-1</li> <li>• MC-1</li> <li>• RTU-1 (NEW UNIT LOAD IS COMPARABLE TO ORIGINAL)</li> </ul>	
MECHANICAL LOADS - NEW EQUIPMENT	34.2 KW
<ul style="list-style-type: none"> <li>• DOAS-1</li> </ul>	
PROPOSED DEMAND LOAD ADDED	32.8 KW
NEW TOTAL PEAK DEMAND (KILOWATTS)	213.0 KW
NEW TOTAL PEAK DEMAND (AMPERES)	591.0 A
(IMPACT ON 800A SERVICE = ACCEPTABLE)	

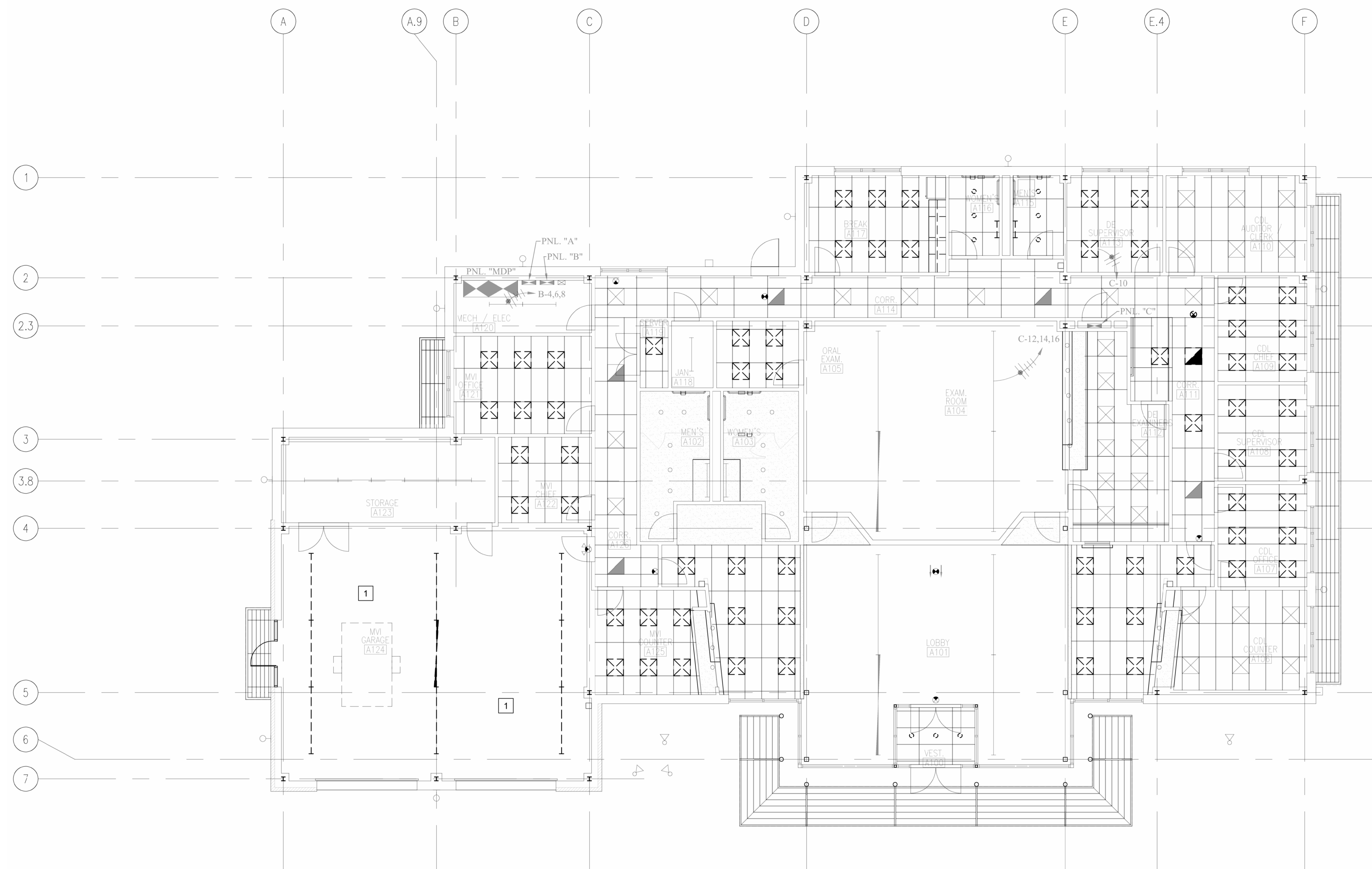


**GENERAL NOTES (DEMOLITION)**

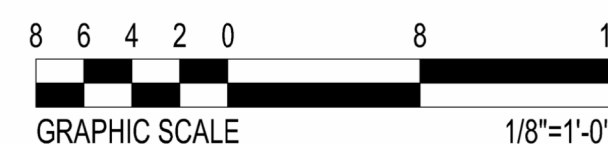
1. DISCONNECT AND TEMPORARILY REMOVE LIGHTING TO ACCOMMODATE FOR MECHANICAL WORK IN AND ABOVE THE CEILING. FIELD COORDINATE WITH OTHER TRADES TO DETERMINE THE EXTENT OF LIGHTS BEING IMPACTED BY CONSTRUCTION. LIGHTS SHOWN DARK AND HATCHED ARE THOSE MOST LIKELY IMPACTED BY MECHANICAL WORK AND POTENTIALLY REQUIRING PART OR ALL OF THE ACCESSIBLE CEILING TO BE REMOVED AND REINSTALLED.

**KEYED NOTES (DEMOLITION)**

X 1. DISCONNECT AND TEMPORARILY REMOVE SUSPENDED LIGHTING SYSTEM IN GARAGE TO ACCOMMODATE FOR NEW DUCTWORK INSTALLATION. CIRCUITING SHALL BE REUSED UNDER NEW WORK.



**A LIGHTING DEMOLITION PLAN**  
SCALE: 1/8"=1'-0"



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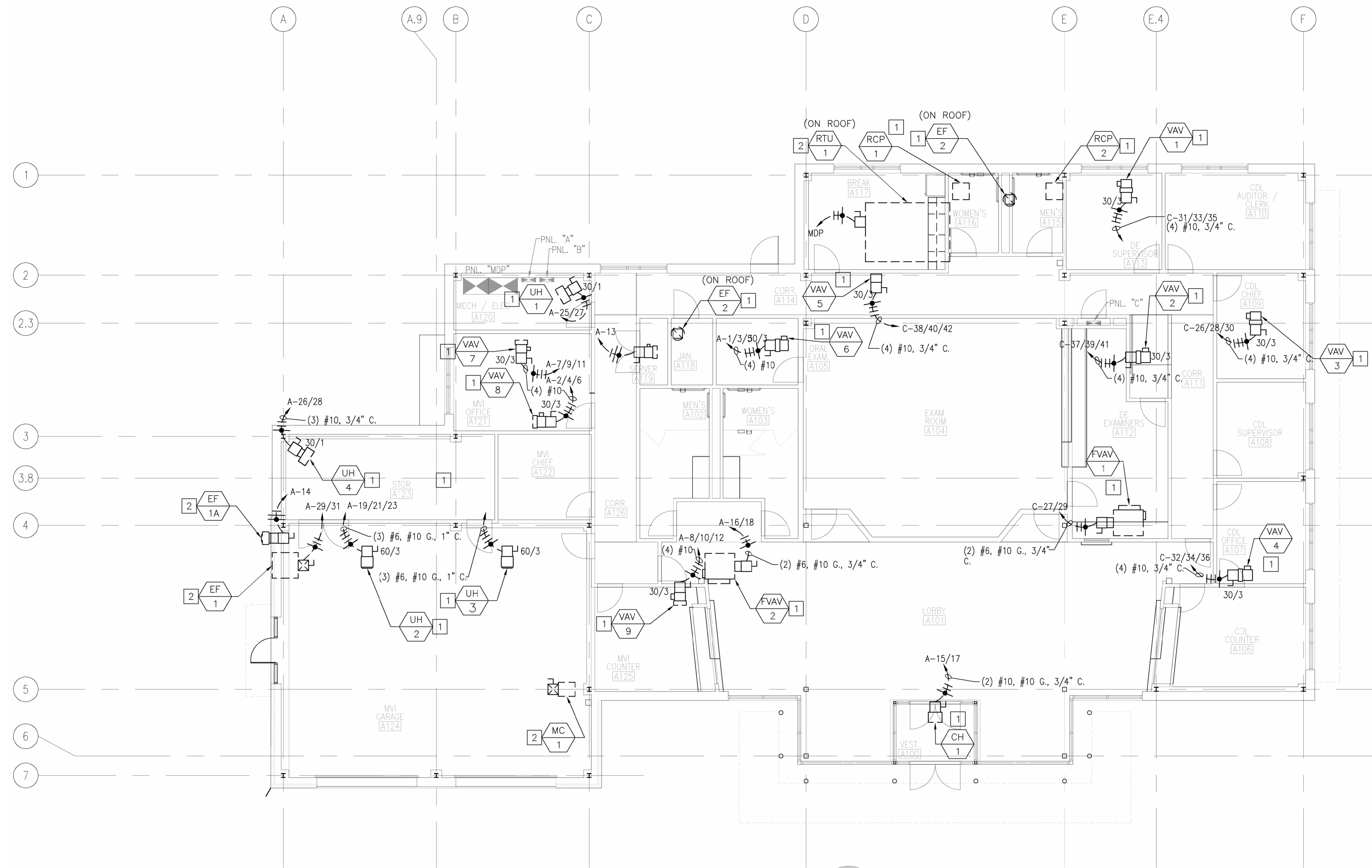
SHEET TITLE:  
**TESTING CENTER  
LIGHTING  
DEMOLITION PLAN**

SHEET NUMBER:

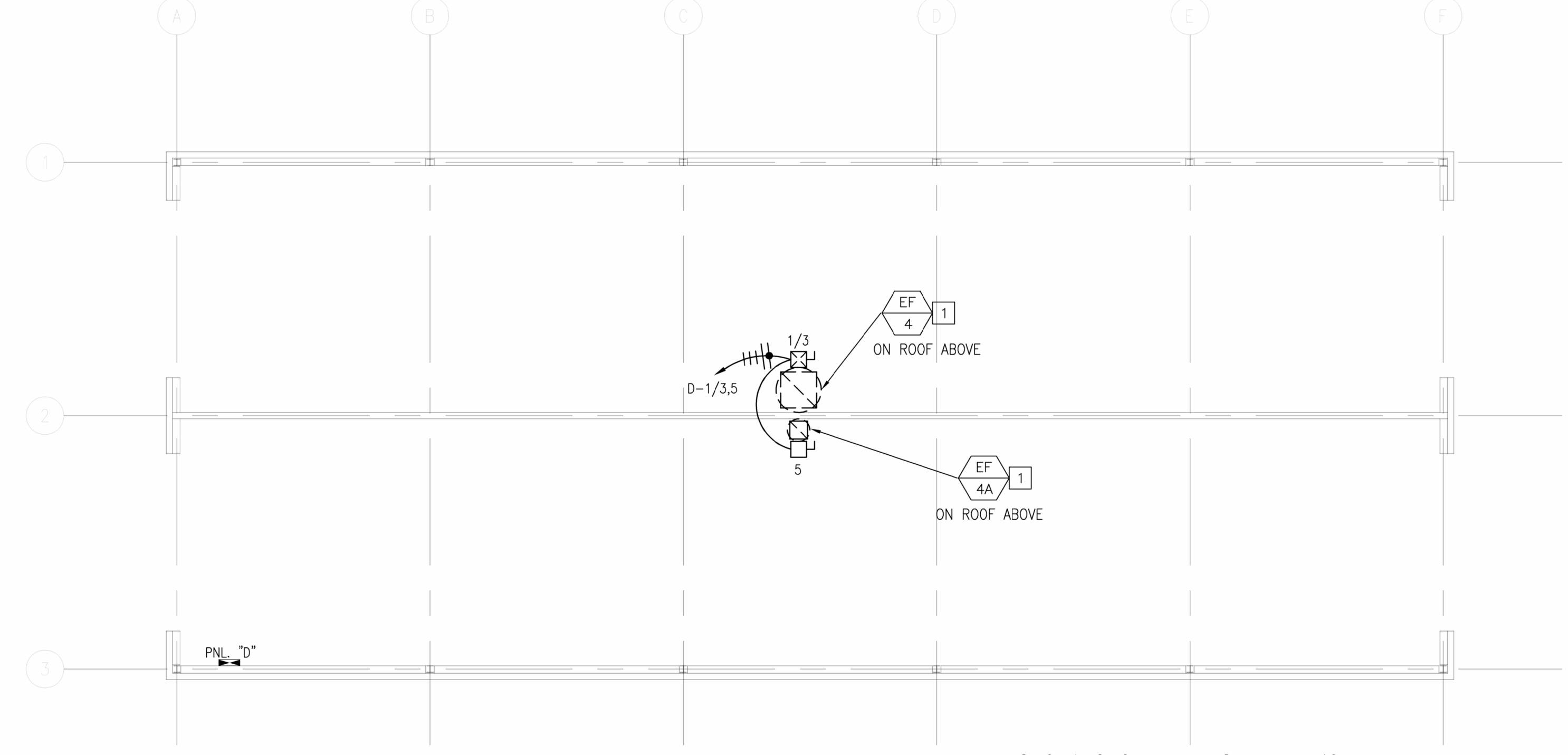
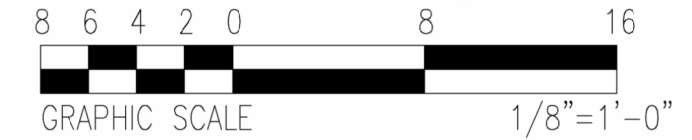
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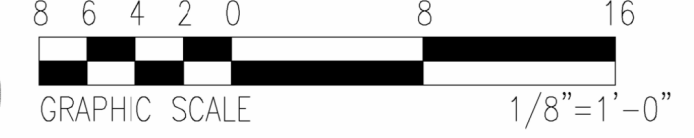
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**A TESTING CENTER POWER DEMOLITION PLAN**  
SCALE: 1/8"=1'-0"



**B INSPECTION GARAGE POWER DEMOLITION PLAN**  
SCALE: 1/8"=1'-0"



- GENERAL NOTES**
- WHERE POWER CIRCUITS ARE DISCONNECTED AND LEFT IN PLACE DURING CONSTRUCTION, PROTECT THE CONDUIT AND WIRE UNTIL RECONNECTING UNDER NEW WORK.
  - CIRCUITS SHOWN WERE DERIVED FROM CASUAL FIELD OBSERVATIONS AND OWNER FURNISHED AS-BUILTS. CONTRACTOR SHALL FIELD VERIFY CIRCUIT INFORMATION BEFORE STARTING DEMOLITION.

- KEYED NOTES**
- CONTRACTOR SHALL DISCONNECT THE POWER CIRCUIT AND MAKE SAFE FOR EQUIPMENT REMOVAL BY OTHERS. CIRCUIT SHALL BE REUSED UNDER NEW WORK.
  - DISCONNECT AND REMOVE ELECTRICAL POWER CIRCUIT BACK TO SOURCE PANEL OR NEAREST JUNCTION BOX IF CIRCUIT IS SHARED WITH OTHER EXISTING-TO-REMAIN EQUIPMENT.



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OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND CONSTRUCTION

UPGRADE HVAC & CONTROL  
SYSTEMS, DE/MVI BUILDING

TROOP C CDL SUPER SITE  
ST. LOUIS COUNTY, MISSOURI

PROJECT # R2513-01  
SITE # 6019  
FACILITY # 8136019010

REVISION:	_____
DATE:	_____
REVISION:	_____
DATE:	_____
REVISION:	_____
DATE:	_____
ISSUE DATE:	05/01/2026

CAD DWG FILE: \_\_\_\_\_  
DRAWN BY: ASF  
CHECKED BY: MJC  
DESIGNED BY: MJC

SHEET TITLE:  
**TESTING CENTER AND  
INSPECTION BUILDING  
POWER DEMOLITION  
PLANS**

SHEET NUMBER:

**ED201**



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ISSUE DATE: 05/01/2026

CAD DWG FILE: \_\_\_\_\_  
 DRAWN BY: ASF  
 CHECKED BY: MJC  
 DESIGNED BY: MJC

SHEET TITLE:  
**TESTING CENTER  
 LIGHTING NEW PLAN**

SHEET NUMBER:

**E-101**

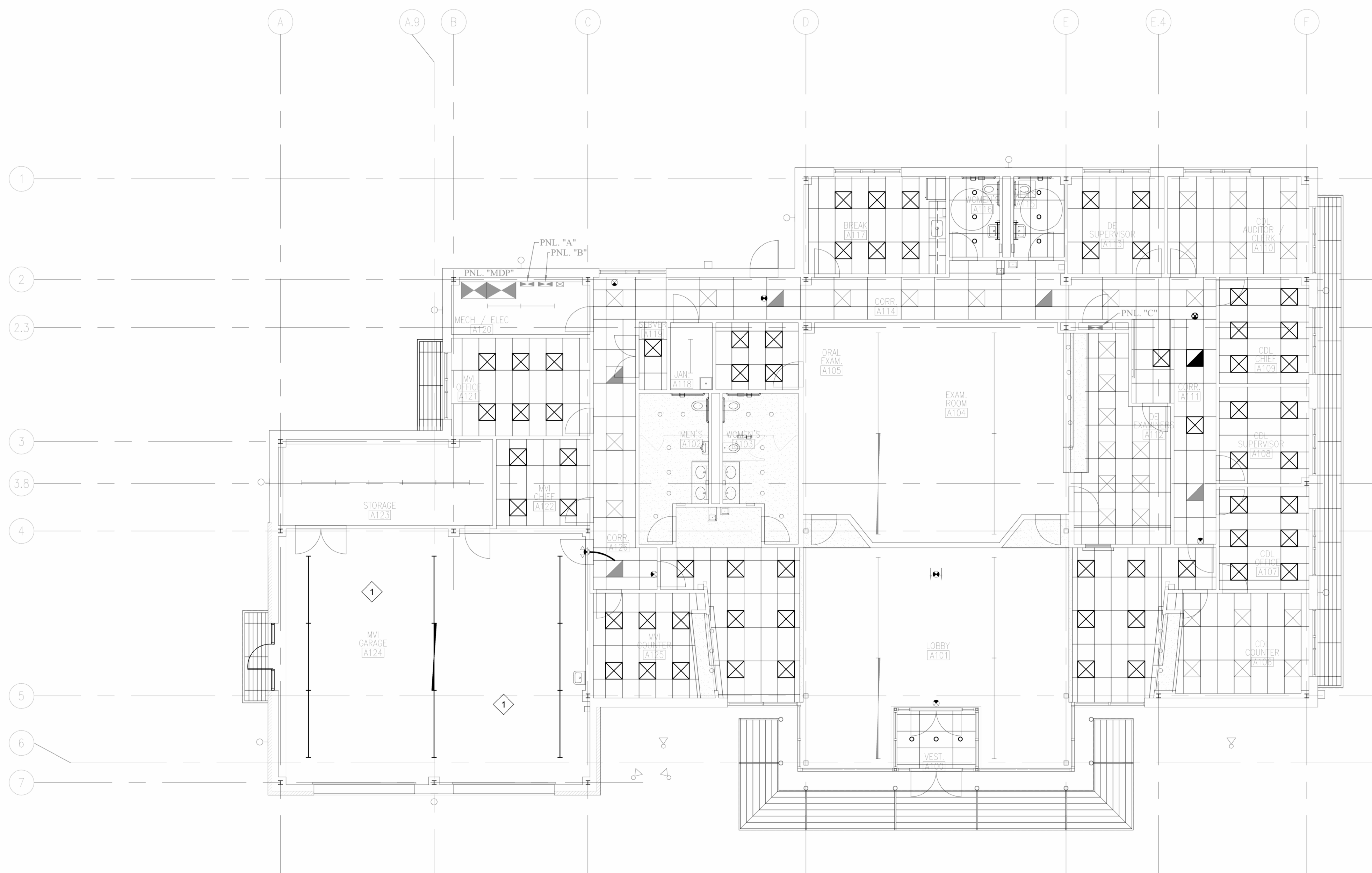
17 OF 19 SHEETS  
 05/01/2026

GENERAL NOTES

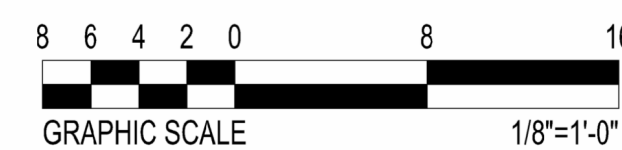
- RE-INSTALL EXISTING LIGHTS AND RECONNECT POWER AFTER ALL MECHANICAL WORK HAS BEEN COMPLETED.

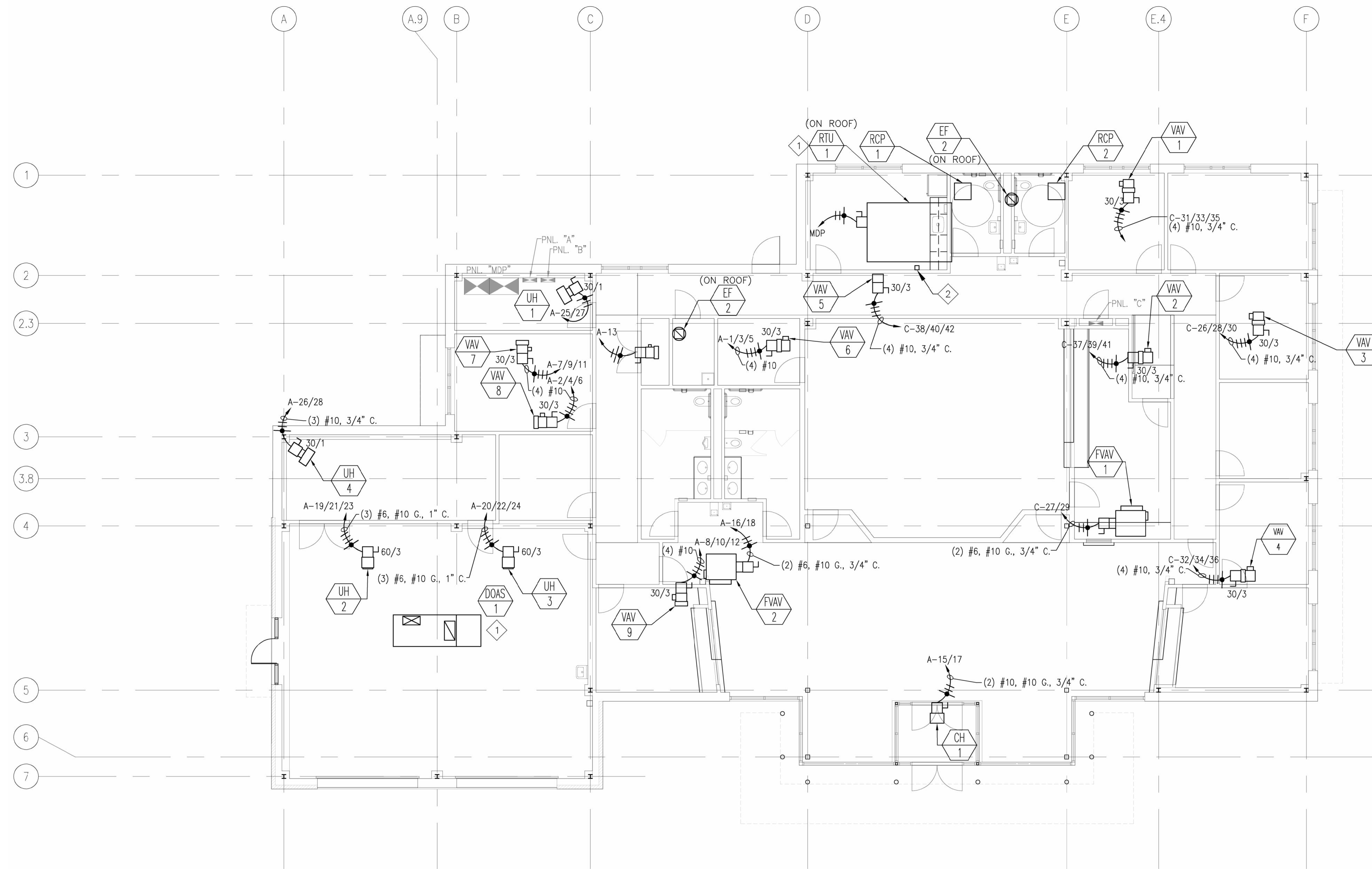
KEYED NOTES

- RE-INSTALL EXISTING SUSPENDED LIGHTING SYSTEM IN GARAGE AND RECONNECT POWER AFTER ALL MECHANICAL WORK HAS BEEN COMPLETED.

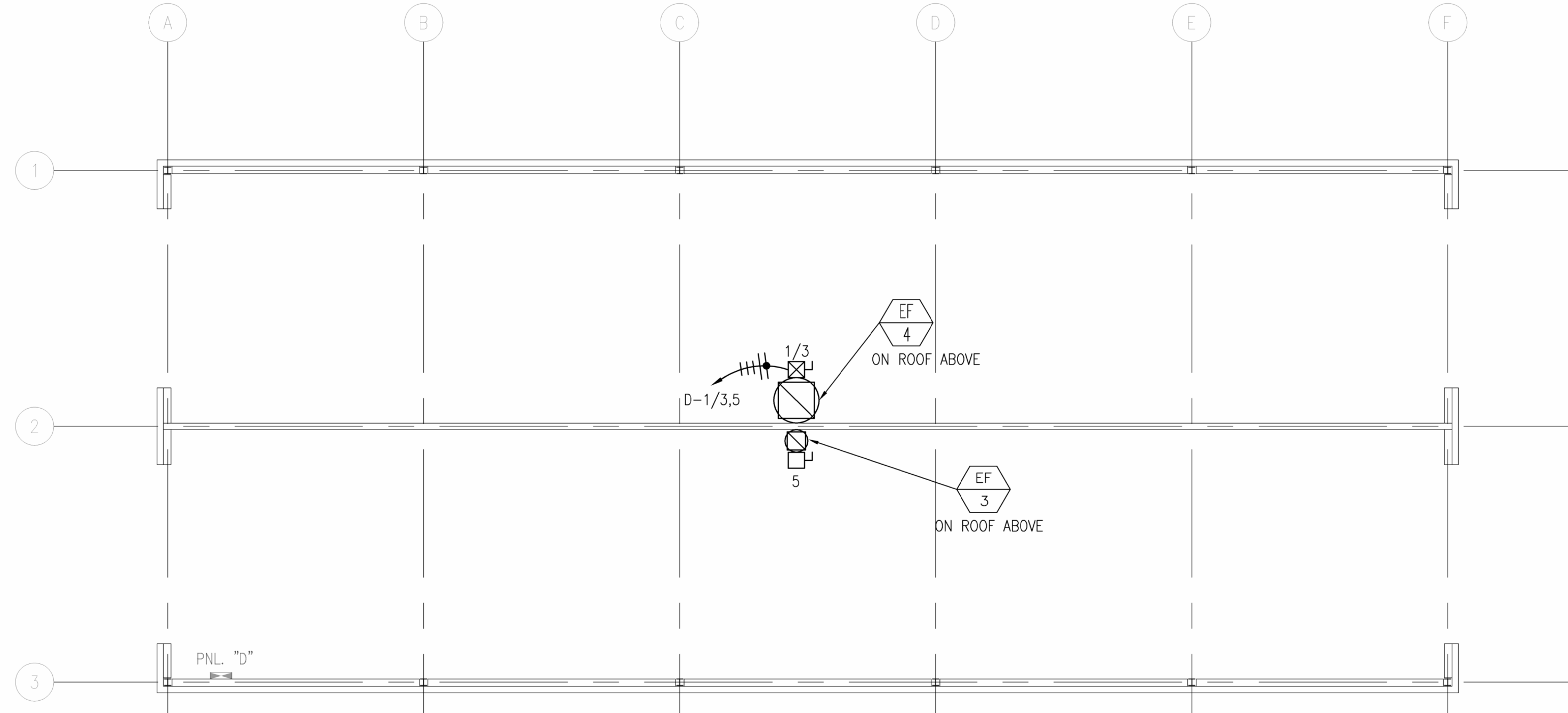
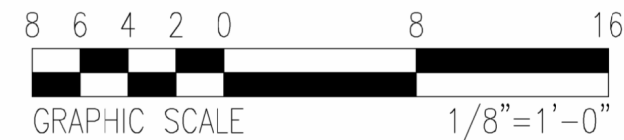


**A TESTING CENTER LIGHTING PLAN**  
 SCALE: 1/8"=1'-0"

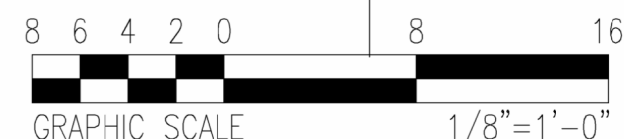




**A** TESTING CENTER POWER PLAN  
SCALE: 1/8"=1'-0"



**B** INSPECTION GARAGE POWER PLAN  
SCALE: 1/8"=1'-0"



**GENERAL NOTES**

1. RECONNECT EXISTING-TO-REMAIN POWER CIRCUITS TO NEW MECHANICAL EQUIPMENT. EXTEND CIRCUITS IF NEEDED.

**KEYED NOTES**

1. SEE ONE-LINE (PROPOSED) ON E-601 FOR FEEDER INFORMATION.
2. WALL OR CEILING MOUNTED PIEZO ANNUNCIATOR FOR TIE-IN TO MECHANICAL UNIT DUCT SMOKE DETECTOR SYSTEM. UNIT SHALL PROVIDE AN AUDIBLE ALARM SIGNAL, A RED LED TO INDICATE ALARM STATUS, AND A GREEN LED TO INDICATE POWER STATUS. DESIGN BASED ON SYSTEM SENSOR APA151. FURNISH AND INSTALL UNIT, BACKBOX AND WIRING NECESSARY FOR PROPER TIE-IN TO MECHANICAL UNIT. FIELD COORDINATE ANNUNCIATOR LOCATION WITH END-USER PRIOR TO ROUGH-IN. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. ANNUNCIATOR UNIT SELECTION DEPENDS ON THE DUCT SMOKE DETECTOR BEING UTILIZED.

STATE OF MISSOURI  
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GOVERNOR



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CAD DWG FILE: \_\_\_\_\_  
DRAWN BY: ASF  
CHECKED BY: MJC  
DESIGNED BY: MJC

SHEET TITLE:  
**TESTING CENTER AND  
INSPECTION BUILDING  
POWER NEW PLANS**

SHEET NUMBER:

**E-201**

18 OF 19 SHEETS  
05/01/2026



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CAD DWG FILE: \_\_\_\_\_  
DRAWN BY: ASF  
CHECKED BY: MJC  
DESIGNED BY: MJC

SHEET TITLE:  
**ELECTRICAL  
SCHEDULES AND  
DIAGRAMS**

SHEET NUMBER:

**E-601**

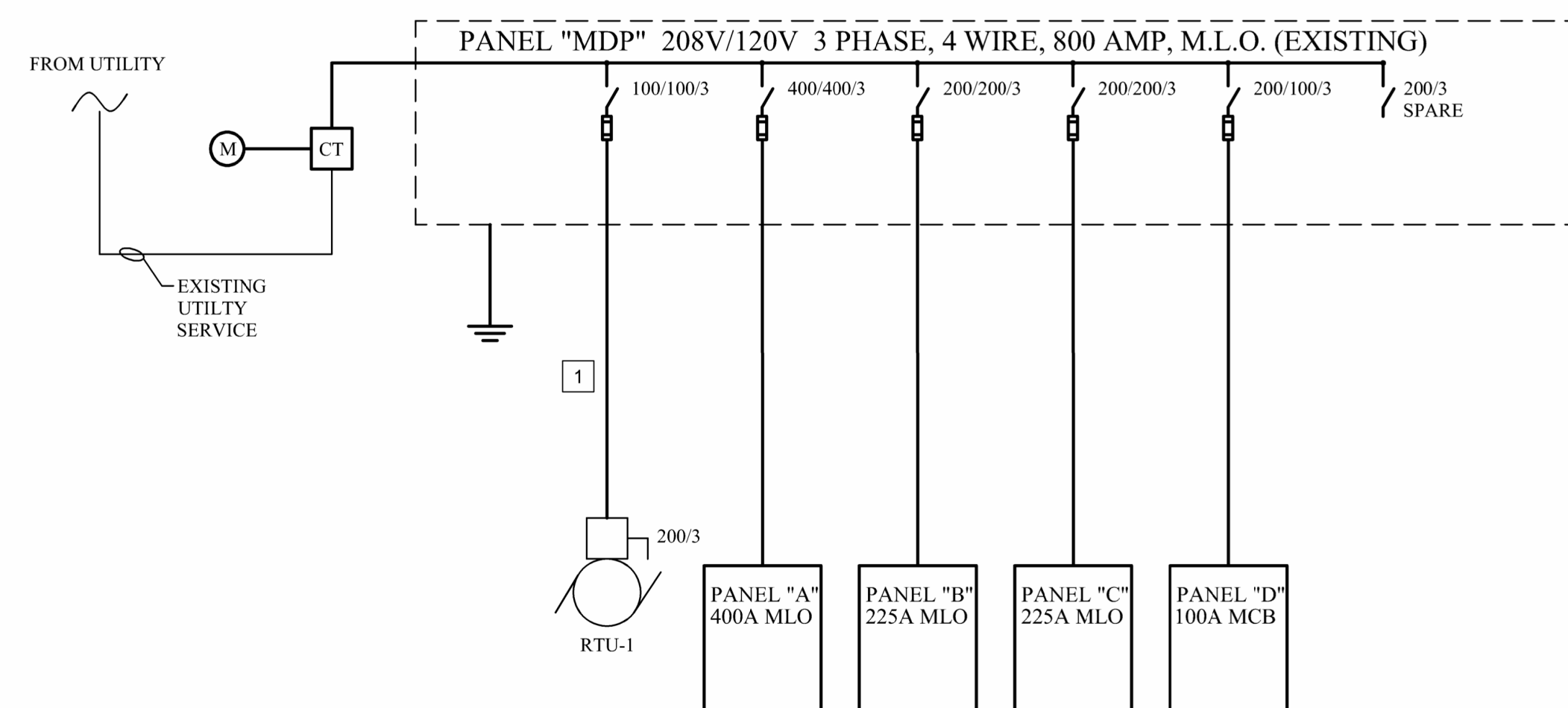
19 OF 19 SHEETS  
05/01/2026

PANEL A (EXISTING)									
VOLTAGE: 208/120 VAC 3Φ-4W		MAIN TYPE: MLO		FED FROM: MDP		FAULT CURRENT WITHSTAND: XXkAIC			
BUS AMPACITY: 400 A		MAIN SIZE: 400A		LOCATION: MECH/ELEC A120		MOUNTING: SURFACE			
BUS MATERIAL: COPPER		NEUTRAL BUS: COPPER		ENCLOSURE: NEMA 1		FEEDER: EXISTING, SEE ONE-LINE DIAGRAM			
NOTE: 1. MAXIMUM COMBINED VOLTAGE DROP FOR PANEL FEEDER AND BRANCH CIRCUITS SHALL NOT EXCEED 5%. 2. MAXIMUM VOLTAGE DROP ON FEEDER OR BRANCH CIRCUIT SHALL NOT EXCEED 3%. 3. PANEL IS FED FROM 400A FUSED SWITCH.									
VA	LOAD DESCRIPTION	CB	NO.	Φ	NO.	CB	LOAD DESCRIPTION	VA	
1667	VAV 6	20A/3P	1	A	2	20A/3P	VAV 8	833	
1667			3	B	4			833	
1667			5	C	6			833	
500	VAV 7	20A/3P	7	A	8	20A/3P	VAV 9	1333	
500			9	B	10			1333	
500			11	C	12			1333	
910	EF 2.3; RCP 1.2	20A/1P	13	A	14	25A/1P	MC1, EF1, EF1A	1416	
2400	CH 1	30A/2P	15	B	16	60A/2P	FVAV 2	4540	
2400			17	C	18			4540	
5222	UH 2	60A/3P	19	A	20	60A/3P	UH 3	5222	
5222			21	B	22			5222	
5222			23	C	24			5222	
1123	UH 1	20A/2P	25	A	26	20A/2P	UH 4	1123	
1123			27	B	28			1123	
348	EF 1	20A/2P	29	C	30	20A/1P	SPARE		
348			31	A	32	20A/1P	WH 3 (JANITOR)	1500	
1176	GARAGE DOOR	20A/1P	33	B	34	20A/1P	SPARE		
1176	GARAGE DOOR	20A/1P	35	C	36	20A/1P	SPARE		
2400	WH 1 (GARAGE)	20A/1P	37	A	38	20A/1P	VAV (DATA)	1123	
2400	WH 2 (BATH)	25A/1P	39	B	40	20A/1P	SPARE		
2400	WH 4 (BATH)	25A/1P	41	C	42	20A/1P	SPARE		

PANEL B (EXISTING)									
VOLTAGE: 208/120 VAC 3Φ-4W		MAIN TYPE: MLO		FED FROM: MDP		FAULT CURRENT WITHSTAND: XXkAIC			
BUS AMPACITY: 225 A		MAIN SIZE: 225A		LOCATION: MECH/ELEC A120		MOUNTING: SURFACE			
BUS MATERIAL: COPPER		NEUTRAL BUS: COPPER		ENCLOSURE: NEMA 1		FEEDER: EXISTING, SEE ONE-LINE DIAGRAM			
NOTE: 1. MAXIMUM COMBINED VOLTAGE DROP FOR PANEL FEEDER AND BRANCH CIRCUITS SHALL NOT EXCEED 5%. 2. MAXIMUM VOLTAGE DROP ON FEEDER OR BRANCH CIRCUIT SHALL NOT EXCEED 3%. 3. PANEL IS FED FROM 200A FUSED SWITCH.									
VA	LOAD DESCRIPTION	CB	NO.	Φ	NO.	CB	LOAD DESCRIPTION	VA	
-	RECEPT NORTH	20A/1P	1	A	2	20A/1P	OUTSIDE LTG	-	
-	MV1 BACK OFFICE	20A/1P	3	B	4	20A/1P	LIGHTING NORTH	-	
-	MV1 GARAGE	20A/1P	5	C	6	20A/1P	LIGHTING CORRIDOR, WATER COOLER, EM LIGHT	-	
-	RECEPT DATA	20A/1P	7	A	8	20A/1P	LIGHTING GARAGE	-	
-	RECEPT DATA	20A/1P	9	B	10	20A/1P	LIGHTING CONTACTOR CONTROL	-	
-	RECEPT DATA	20A/1P	11	C	12	20A/1P	SPARE	-	
-	RECEPT JANITOR	20A/1P	13	A	14	20A/1P	AUTO LIFT	-	
-	GFI RECEPT BATH	20A/1P	15	B	16	20A/1P	SPARE	-	
-	GFI RECEPT BATH	20A/1P	17	C	18	20A/1P	OUTSIDE LIGHTING	-	
-	SPARE	20A/1P	19	A	20	40A/2P	KITCHEN STOVE	-	
-	SPARE	20A/1P	21	B	22			-	
-	SPARE	20A/1P	23	C	24	20A/1P	SPARE	-	
-	SPARE	20A/1P	25	A	26	20A/1P	SPARE	-	
-	AUTO LIFT	20A/1P	27	B	28	20A/1P		-	
-	AUTO LIFT	20A/1P	29	C	30	20A/1P	SPARE	-	
-	SPARE	20A/1P	31	A	32	20A/1P	SPARE	-	
-	EMI CONTROLS	20A/1P	33	B	34	20A/1P	SPARE	-	
-		20A/1P	35	C	36	20A/1P	SPARE	-	
-		20A/1P	37	A	38	40A/3P	AIR COMPRESSOR	-	
-	PARKING LOT LTS	20A/2P	39	B	40			-	
-			41	C	42			-	

PANEL C (EXISTING)									
VOLTAGE: 208/120 VAC 3Φ-4W		MAIN TYPE: MLO		FED FROM: MDP		FAULT CURRENT WITHSTAND: XXkAIC			
BUS AMPACITY: 225 A		MAIN SIZE: 225A		LOCATION: MECH/ELEC A120		MOUNTING: SURFACE			
BUS MATERIAL: COPPER		NEUTRAL BUS: COPPER		ENCLOSURE: NEMA 1		FEEDER: EXISTING, SEE ONE-LINE DIAGRAM			
NOTE: 1. MAXIMUM COMBINED VOLTAGE DROP FOR PANEL FEEDER AND BRANCH CIRCUITS SHALL NOT EXCEED 5%. 2. MAXIMUM VOLTAGE DROP ON FEEDER OR BRANCH CIRCUIT SHALL NOT EXCEED 3%. 3. PANEL IS FED FROM 200A FUSED SWITCH.									
VA	LOAD DESCRIPTION	CB	NO.	Φ	NO.	CB	LOAD DESCRIPTION	VA	
-	KITCHEN RECEPITS	20A/1P	1	A	2	20A/1P	SPARE	-	
-	KITCHEN RECEPITS	20A/1P	3	B	4	20A/1P	SPARE	-	
-	KITCHEN RECEPITS	20A/1P	5	C	6	20A/1P	SPARE	-	
-	RECEPITS	20A/1P	7	A	8	20A/1P	SPARE	-	
-	RECEPITS	20A/1P	9	B	10	20A/1P	GENERAL LIGHTING	-	
-	RECEPITS	20A/1P	11	C	12	20A/1P	EXAM RM LIGHTING	-	
-	RECEPITS	20A/1P	13	A	14	20A/1P	LOBBY LIGHTING	-	
-	RECEPITS	20A/1P	15	B	16	20A/1P	GENERAL LIGHTING	-	
-	RECEPITS	20A/1P	17	C	18	20A/1P	SPARE	-	
-	RECEPITS	20A/1P	19	A	20	20A/1P	SPARE	-	
-	RECEPITS	20A/1P	21	B	22	20A/1P	SPARE	-	
-	WH-1	20A/1P	23	C	24	20A/1P	EW-1	920	
-	WH-2	25A/1P	25	A	26	20A/3P	VAV 3	1333	
4540	FVAV-1	60A/2P	27	B	28			1333	
4540			29	C	30			1333	
1000	VAV-1	20A/3P	31	A	32	20A/3P	VAV 4	1833	
1000			33	B	34			1833	
1000			35	C	36			1833	
1667	VAV-2	20A/3P	37	A	38	20A/3P	VAV 5	1000	
1667			39	B	40			1000	
1667			41	C	42			1000	

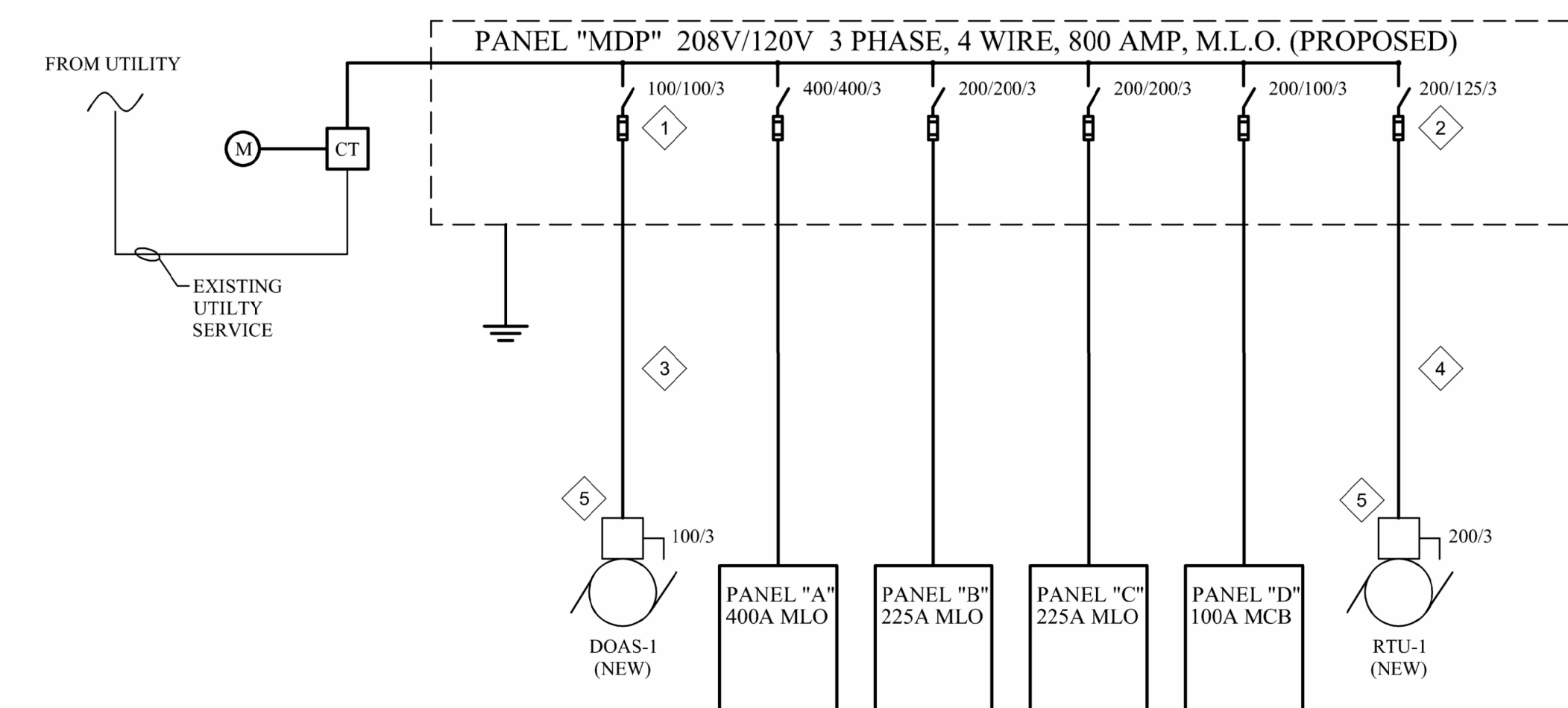
PANEL D (EXISTING)									
VOLTAGE: 208/120 VAC 3Φ-4W		MAIN TYPE: MCB		FED FROM: MDP		FAULT CURRENT WITHSTAND: XXkAIC			
BUS AMPACITY: 100 A		MAIN SIZE: 100A		LOCATION: MECH/ELEC A120		MOUNTING: SURFACE			
BUS MATERIAL: COPPER		NEUTRAL BUS: COPPER		ENCLOSURE: NEMA 1		FEEDER: EXISTING, SEE ONE-LINE DIAGRAM			
NOTE: 1. MAXIMUM COMBINED VOLTAGE DROP FOR PANEL FEEDER AND BRANCH CIRCUITS SHALL NOT EXCEED 5%. 2. MAXIMUM VOLTAGE DROP ON FEEDER OR BRANCH CIRCUIT SHALL NOT EXCEED 3%. 3. PANEL IS FED FROM 100A FUSED SWITCH.									
VA	LOAD DESCRIPTION	CB	NO.	Φ	NO.	CB	LOAD DESCRIPTION	VA	
960	EF (208V)	20A/2P	1	A	2	20A/3P	LIGHTS WEST BAY	-	
960			3	B	4	20A/3P	LIGHTS EAST BAY, OUTSIDE LIGHT NORTH	-	
75	EF (120V)	20A/1P	5	C	6	20A/3P	LIGHTS WEST BAY	-	
-	WEST BAY GFI RECEPITS	20A/1P	7	A	8	20A/3P	LIGHTS EAST BAY, OUTSIDE LIGHT WEST	-	
-	EAST BAY GFI RECEPITS	20A/1P	9	B	10	20A/3P	SPARE	-	
1176	WEST BAY NORTH GARAGE DOOR MOTOR	20A/1P	11	C	12	20A/3P	SPARE	-	
1176	EAST BAY NORTH GARAGE DOOR MOTOR	20A/1P	13	A	14	20A/3P	SPARE	-	
1176	WEST BAY SOUTH GARAGE DOOR MOTOR	20A/1P	15	B	16	20A/3P	SPARE	-	
1176	EAST BAY SOUTH GARAGE DOOR MOTOR	20A/1P	17	C	18	20A/3P	SPARE	-	
-	OUTSIDE LIGHT SOUTH END	20A/1P	19	A	20	20A/3P	SPARE	-	
-	SPARE	20A/1P	21	B	22	20A/3P	SPARE	-	
-	SPARE	20A/1P	23	C	24	20A/3P	SPARE	-	
-	SPARE	20A/1P	25	A	26		SPACE	-	
-	SPARE	20A/1P	27	B	28		SPACE	-	
-	SPARE	20A/1P	29	C	30		SPACE	-	
-	SPARE	20A/1P	31	A	32		SPACE	-	
-	SPARE	20A/1P	33	B	34		SPACE	-	
180	CONVENIENCE OUTLET	20A/1P	35	C	36		SPACE	-	
-	MAIN CIRCUIT BREAKER	100A/3P	37	A	38		SPACE	-	
-			39	B	40		SPACE	-	
-			41	C	42		SPACE	-	



- GENERAL NOTES**
- ALL CONDUCTORS SHALL BE COPPER, UNLESS NOTED OTHERWISE.
  - WHERE CIRCUIT BREAKERS AND FUSED SWITCHES BECOME SPARES, CLEARLY MARK "SPARE" AND OPEN CIRCUIT IN "OFF" POSITION.
  - WHERE EQUIPMENT IS REMOVED FROM A CIRCUIT, BUT OTHER EQUIPMENT REMAINS, UPDATE THE PANEL SCHEDULE ACCORDINGLY.
  - OWNER HAS SALVAGE RIGHTS TO ALL MATERIALS DEMOLISHED UNDER THIS PROJECT. CONTRACTOR SHALL LEGALLY DISPOSE OF ALL UNWANTED MATERIALS OFF-SITE.
  - REFER TO MECHANICAL SHEETS FOR ADDITIONAL INFORMATION INCLUDING SHEET M-601 FOR EQUIPMENT SCHEDULES.

- KEYED NOTES (DEMOLITION)**
- DISCONNECT AND REMOVE FUSES, CONDUIT AND CONDUCTORS BETWEEN FUSED SWITCH AND INTEGRAL DISCONNECT SWITCH AT UNIT.

- KEYED NOTES (PROPOSED)**
- PROVIDE (3) 100A FUSES IN EXISTING SWITCH.
  - PROVIDE (3) 200A FUSES IN SPARE SWITCH.
  - PROVIDE 3#1, 1#6G IN 1 1/4" CONDUIT.
  - PROVIDE 3#1, 1#6G IN 1 1/4" CONDUIT.
  - INTEGRAL DISCONNECT SWITCH BY MANUFACTURER.



**2 ONE-LINE DIAGRAM - PROPOSED**  
SCALE: N.T.S.

**1 ONE-LINE DIAGRAM - DEMOLITION**  
SCALE: N.T.S.