Roof, Tuckpoint Repair & Interior Renovation Rolla Readiness Center, Rolla, Missouri



OWNER: STATE OF MISSOURI

MIKE KEHOE, GOVERNOR

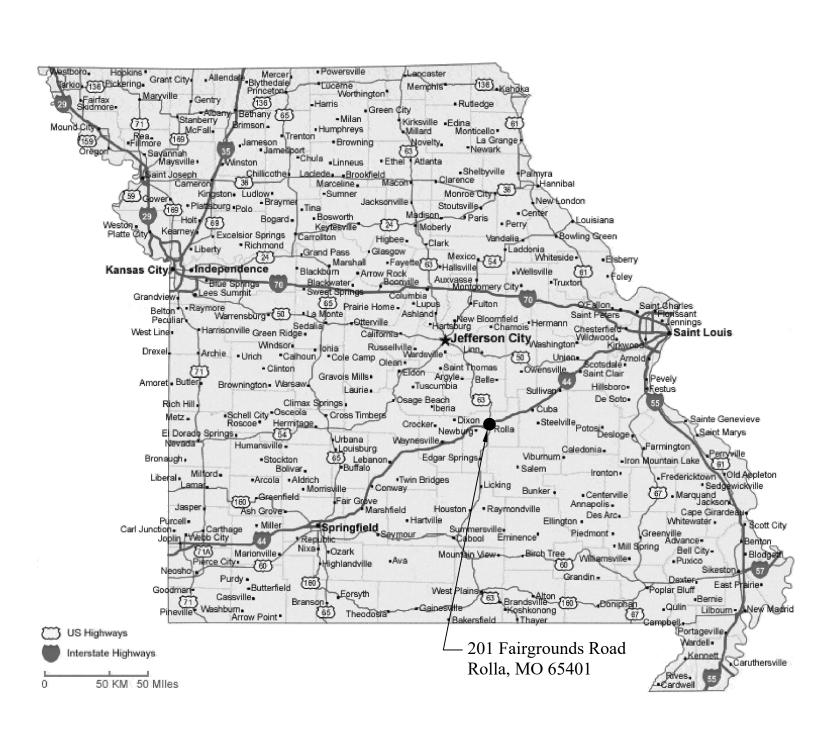
MISSOURI NATIONAL GUARD

OFFICE OF THE ADJUTANT GENERAL FACILITIES MANAGEMENT OFFICE

PROJECT OFFICE OF ADMINISTRATION

DIVISION OF FACILITIES MANAGEMENT MANAGEMENT:

DESIGN AND CONSTRUCTION



ARCHITECT & **MECHANICAL**



PROJECT NUMBER: SITE NUMBER: ASSET NUMBER:

T2238-01 6297 8136297001

June 24, 2025





PROJECT DESCRIPTION

THIS A RENOVATION PROJECT OF AN EXISTING READINESS CENTER BUILDING IN ROLLA, MISSOURI. THE EXISTING FACILITY WAS CONSTRUCTED IN MULTIPLE PHASES FROM THE 1960s THROUGH THE 1980s AND WAS MOST RECENTLY UPDATED WITH NEW FINISHES APPROXIMATELY TWENTY YEARS AGO.

THE STRUCTURE IS PRIMARILY CMU AND BRICK WITH A LOW-SLOPE ROOF DRAINING TO PERIMETER GUTTERING. SOME INTERIOR WALLS ARE FORMER EXTERIOR MASONRY WALLS DUE TO THE PHASED CONSTRUCTION.

THE EXTERIOR RENOVATION WORK PRINCIPALLY INCLUDES (BUT IS NOT LIMITED TO) THE FOLLOWING SCOPE. SEE ALL DRAWINGS AND SPECIFICATIONS FOR THE PROPOSED SCOPE

- ROOF REPLACEMENT
- **GUTTER & DOWNSPOUT REPLACEMENT** NEW WINDOWS AND DOORS
- BRICK TUCKPOINT & SEALING
- INFILL/REPLACEMENT OF LIMITED PORTIONS OF EXTERIOR WALLS AS RELATED TO INTERIOR DEVELOPMENT CHANGES
- CHANGES TO THE SITE LIGHTING NEW WATER SERVICE LINE FROM THE STREET/METER TO THE BUILDING

THE INTERIOR RENOVATION PRINCIPALLY INCLUDES (BUT IS NOT LIMITED TO) THE FOLLOWING SCOPE. SEE ALL DRAWINGS AND SPECIFICATIONS FOR THE PROPOSED SCOPE

DEMOLITION AND COMPLETE REPLACEMENT OF THE MEN AND WOMEN'S LATRINES IN THE CENTER OF THE BUILDING INCLUDING ALL PLUMBING FIXTURES, REWORK OF SUPPLY/WASTE LINES, NEW CEILINGS, ELECTRICAL, LIGHTING, AND RELATED.

STRUCTURAL MODIFICATIONS FOR NEW RTU NEW MINI-SPLIT HVAC SYSTEM FOR SMALL EQUIPMENT ROOM

- NEW WATER HEATERS FOR LATRINES NEW INTERIOR DOORS AND HARDWARE
- NEW INTERIOR ACOUSTIC GRID CEILINGS (REUSE MECHANICAL DIFFUSERS AND LIGHTS) REPAINT INTERIOR WALLS AND CEILING SOFFITS

NEW ROOFTOP HVAC FOR LATRINES WITH EXTERIOR-RATED DUCTWORK AND GAS LINE

- NEW FLOOR FINISHES AND BASE
- REPLACE LIGHT SWITCHES AND RECEPTACLES
- NEW FIRE ALARM SYSTEM WITH VOICE SYSTEM

THE WORK INDICATED UNDER THIS COVER IS INTENDED TO BE BID AS A SINGLE PHASE OF CONSTRUCTION. ANY OCCUPANCY OF THE BUILDING BY THE NATIONAL GUARD OFFICE PERSONNEL WILL BE INCIDENTAL AND CAN BE COORDINATED DURING CONSTRUCTION. THE GUARD DOES NOT PROPOSE USING THE FACILITY FOR TRAINING DURING CONSTRUCTION. THE GENERAL CONTRACTOR WILL NOT BE REQUIRED TO PROVIDE TEMPORARY TOILET FACILITIES FOR NATIONAL GUARD FUNCTIONS, ONLY FOR CONSTRUCTION WORKERS.

THIS PROJECT MODIFIES MULTIPLE SYSTEMS AND FINISHES OF A PRESENTLY OPERATING FACILITY THAT WILL BE EXPECTED TO RETURN TO IMMEDIATE OPERATION AT SUBSTANTIAL COMPLETION. WHILE EVERY EFFORT HAS BEEN MADE TO DESCRIBE THE TECHNICAL AND FINISH REQUIREMENTS, IT IS NOT POSSIBLE TO DESCRIBE ALL THE IMPLICATIONS OF ANY

THE GENERAL CONTRACTOR IS EXPECTED TO LEAVE SUFFICIENT ALLOWANCE IN THE FIXED BID AMOUNT TO ADDRESS MINUTE OR INCIDENTAL WORK THAT IS CUSTOMARILY RELATED TO THE RENOVATION WORK AND SYSTEMS DESCRIBED UNDER THIS COVER. SEALANTS, CAULKING, CUSTOM FLASHING, CUSTOM FINISH METAL TRIM, MINOR MASONRY REPAIRS, DAMAGE TO ADJACENT FINISHES, FITTINGS, MINOR ACCESSORIES, AND ANY OTHER TECHNICAL OR FINISH DETAILS ORDINARY REQUIRED TO PROVIDE A COMPLETE. FINISHED. SEALED, AND FUNCTIONAL FACILITY WILL BE EXPECTED, WHETHER OR NOT EACH INCIDENTAL

THE CONTRACTOR IS REQUIRED TO ANTICIPATE ALL SHORING, TEMPORARY STRUCTURAL COMPONENTS, SECURITY MEASURES, WEATHER PROTECTION, AND STABILIZATION REQUIRED FOR THE WORK ILLUSTRATED. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION REGARDING ALL READILY OBSERVABLE CONDITIONS, INCLUDING INTERSTITIAL SPACES ABOVE EXISTING CEILINGS WITH REMOVABLE TILES.

ITEM OR MATERIAL TRANSITION IS DESCRIBED IN THE DRAWINGS OR SPECIFICATIONS.

UNFORESEEN CONDITIONS DISCOVERED BEHIND EXISTING PERMANENT CONSTRUCTION WILL BE ADDRESSED AS DISCOVERED DURING CONSTRUCTION; NO DESTRUCTIVE MODIFICATIONS TO THE BUILDING MAY BE MADE DURING THE BIDDING PROCESS.

PROJECT MANUAL (CSI) SECTION NAME REFERENCE (SECTIONS OWNER FURNISHED AND		FURNISHED BY CONTRACTOR	ED BY CTOR	LED BY	ED BY IER	CONTACT INFORMATION						
SECTION REF. NUMBER	INSTALLED NOT INCLUDED IN PROJECT MANUAL - FOR REFERENCE ONLY)		INSTALLED BY CONTRACTOR	FURNISHED BY OWNER	INSTALLED I	COMPANY & ADDRESS	POINT OF CONTACT, PHONE (P), CELL (C), OR EMAIL (E)					
01 11 00	SUMMARY OF WORK GENERAL BUILDING PERMIT (NOT REQUIRED) STATE DEPARTMENT OF NATURAL RESOURCES PERMIT (NOT REQUIRED)			x		STATE OF MISSOURI OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT DESIGN & CONSTRUCTION HARRY S TRUMAN STATE OFFICE BUILDING RM. 730 JEFFERSON CITY, MO 65102	BILL EDWARDS, PROJECT MANAGER (C): 573-578-2612 (E): billy.j.edwards66.nfg@army.m					
01 11 00	SUMMARY OF WORK (ALL TRADE PERMITS, UTILITY IMPACT AND CONNECTION FEES, OR PERMITS AND FEES REQUIRED FOR PROJECT COMPLETION)	Х				(TO BE DETERMINED)	(TO BE DETERMINED)					
01 45 33	SPECIAL INSPECTIONS AND PROCEDURES (REFER TO SECTION FOR ADDITIONAL REQUIREMENTS)	Х				(TO BE DETERMINED)	(TO BE DETERMINED)					
08 70 00	DOOR HARDWARE (LOCK CORES AND KEYS - CONTRACTOR TO SUBMIT LIST OF MATERIALS REQUIRED FOR OWNER TO SUBMIT ORDER TO HARDWARE MANUFACTURER. COST OF MATERIALS AND DELIVERY BY CONTRACTOR)	OR X CONSTRUCTION AND FACILITIES MANAGEMENT		BILL EDWARDS, PROJECT MANAGER (C): 573-578-2612 (E): billy.j.edwards66.nfg@army.mil								
10 28 00	SHOWER CURTAINS (SHOWER CURTAINS AND HOOKS) SOAP DISPENSERS HAND TOWEL DISPENSERS			x	х	STATE OF MISSOURI DEPARTMENT OF PUBLIC SAFETY MISSOURI ARMY NATIONAL GUARD CONSTRUCTION AND FACILITIES MANAGEMENT OFFICE 6819 NORTH BOUNDARY ROAD JEFFERSON CITY, MISSOURI 65101	BILL EDWARDS, PROJECT MANAGER (C): 573-578-2612 (E): billy.j.edwards66.nfg@army.mil					
28 46 00	FIRE DETECTION AND ALARM (ENTIRE SYSTEM INCLUDING HARDWARE, CONDUIT, WIRING, EQUIPMENT)	X	Х			(TO BE DETERMINED)	(TO BE DETERMINED)					
28 46 00	FIRE DETECTION AND ALARM (REMOTE MONITORING SERVICE)			х	х	STATE OF MISSOURI DEPARTMENT OF PUBLIC SAFETY MISSOURI ARMY NATIONAL GUARD CONSTRUCTION AND FACILITIES MANAGEMENT OFFICE 6819 NORTH BOUNDARY ROAD JEFFERSON CITY, MISSOURI 65101	BILL EDWARDS, PROJECT MANAGER (C): 573-578-2612 (E): billy.j.edwards66.nfg@army.mil					

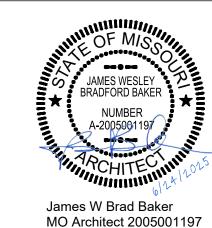
PROPOSED CONSTRUCTION STAGING AREA (WITHIN FENCE) EXISTING PARKING -FINAL LAY-DOWN AREA TO BE DETERMINED AT PRE-CONSTRUCTION MEETING BUT WILL EXG. DRIVEWAY BE WITHIN EXISTING FENCED AREA EXG. PKG. -EXISTING -EXISTING BUILDING BUILDING (DRILL ROOM) -OFFICES — **ENTRY** EXG. DRIVEWAY ∠ EXG. ∠ EXISTING PARKING -SITE DIAGRAM / STAGING AREA $\overline{\text{G-002}}$ $\overline{1" = 30'-0"}$

GENERAL NOTES

- A REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- B THE ARCHITECT'S AND ENGINEERS' RESPONSIBILITY IS ONLY FOR THE INFORMATION INCLUDED WITHIN THE CONSTRUCTION DOCUMENTS. ALL OTHER DOCUMENTS AND INSTRUMENTS REQUIRED FOR COMPLETION OF THE PROJECT SHALL BE THE RESPONSIBILITY OF OTHERS AND ARE HEREBY DISCLAIMED.
- QUALITY STANDARD AND BUILDING CODES ALL CONTRACTORS
 SHALL BE RESPONSIBLE FOR KNOWN STANDARD. SHALL BE RESPONSIBLE FOR KNOWING THE QUALITY AND PUBLIC SAFETY REGULATIONS SET FORTH IN THE GOVERNING CODES AND OTHER APPLICABLE REGULATIONS OF LOCAL AND STATE AGENCIES HAVING JURISDICTION WHICH GOVERN EACH CONTRACTOR'S WORK.
- THE ARCHITECT AND ENGINEERS ARE NOT RESPONSIBLE FOR FIELD ACTIVITIES ON THIS PROJECT WITHOUT DIRECT OBSERVATION OF THE WORK IN PROGRESS. IF FIELD CONDITIONS ARE UNCOVERED THAT REQUIRE A CHANGE OR ADDITIONAL INFORMATION, THE ARCHITECT AND ENGINEER DOES NOT DELEGATE THEIR AUTHORITY TO ANYONE ELSE FOR DETERMINING THE MEANING OF THEIR PLANS OR SPECIFICATIONS.
- FIELD VERIFY EXISTING CONDITIONS BY DETAILED INSPECTION PRIOR TO SUBMITTING BID AND BEGINNING WORK. NOTIFY ARCHITECT IF EXISTING CONDITIONS DEVIATE SUBSTANTIALLY FROM THOSE INDICATED HEREIN.

SHEET INDEX

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**





ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

OFFICE OF

MISSOURI NATIONAL GUARD DEPT. OF ADJUTANT GENERAL

ROOF, TUCKPOINT REPAIR & INTERIOR RENOVATION ROLLA READINESS CENTER

ROLLA READINESS CENTER 201 FAIRGROUNDS ROAD ROLLA, MISOURI 65401

PROJECT # T2238-01 6297 ASSET# 8136297001

REVISION: REVISION: **REVISION**: ISSUE DATE: 6-24-2025

CAD DWG FILE: T2238-01 6297 8136297001-G-002 DRAWN BY: BB

SHEET TITLE:

CHECKED BY: JB

SHEET INDEX / SCOPE OF WORK SCHEDULE

SHEET NUMBER:

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EGRESS ANALYSIS PLAN G-101 1/8" = 1'-0"

GENERAL NOTES

 \langle A \rangle REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.

B CONTRACTOR TO PROVIDE PORTABLE FIRE EXTINGUISHERS DURING CONSTRUCTION AS REQUIRED TO PROTECT THE WORK AREA AND EACH STORAGE UNIT AND JOB TRAILER PER THE FIRE

BUILDING CODE SUMMARY

JURISDICTION:

MISSOURI OFFICE OF ADMINISTRATION -FACILITIES MANAGEMENT, DESIGN & CONSTRUCTION

ROLLA, MISSOURI COUNTY: PHELPS 65401

ZIP CODE:

GOVERNING CODES AND STANDARDS EXISTING BUILDING CODE:

ELECTRICAL CODE:

FIRE CODE:

2018 IEBC 2018 IBC & Appendix C, F, G, I & J BUILDING CODE: PLUMBING CODE: 2018 IPC MECHANICAL CODE: 2018 IMC

FUEL / GAS CODE: 2018 IFGC **ENERGY CODE:** 2018 IECC (less Chapter 13) ACCESSIBLE CODE: 2009 ICC A117.1

ACCESSIBILITY CODE:

2018 IEBC CLASSIFICATION OF WORK: ALTERATION LEVEL 3

NEW FINISHES SHALL COMPLY BE CLASS C, WITH A FLAME SPREAD INDEX OF 76-200 AND SMOKE DEVELOPED INDEX OF 0-45 PER ASTM E84 OR UL 723.

USE GROUP & CONSTRUCTION TYPE

PRIMARY USE GROUP: CONSTRUCTION TYPE:

II-B (NON-COMBUSTIBLE / UNPROTECTED)

2017 NEC

2018 IFC

BUILDING HEIGHT & AREA 21,300 SF FOOTPRINT EXISTING (UNCHANGED) APPEARS TO COMPLY WITH ALLOWABLE AREAS WHEN FRONTAGE

INCREASE CALCULATION IS APPLIED

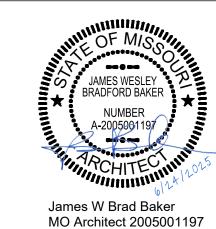
FIRE PROTECTION SYSTEMS AUTOMATIC SPRINKLER SYSTEM: PORTABLE FIRE EXTINGUISHERS: EXISTING / COMPLIANT

MANUAL FIRE ALARM: PROPOSED

NO CHANGES TO BUILDING OCCUPANCY COUNT OR EGRESS/CIRCULATION SYSTEM ARE PROPOSED BY THIS PROJECT. THE LOCATION OF EXISTING EXITS APPEARS TO COMPLY WITH THE MINIMUM EXIT TRAVEL DISTANCE REQUIREMENT OF 200 FEET AS INDICATED ON THE PLAN AT LEFT.

CONTRACTOR SHALL MAINTAIN OPEN ACCESS TO EXIT DOORS DURING CONSTRUCTION UNLESS MAKING SPECIAL ARRANGEMENTS WITH THE OWNER FOR A TEMPORARY CLOSURE WITH CONCURRENCE OF THE ARCHITECT.

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**





DIVISION OF FACILITIES MANAGEMENT, DESIGN **AND CONSTRUCTION**

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PROJECT # T2238-01 6297

ASSET# 8136297001

REVISION: **REVISION: REVISION**:

ISSUE DATE: 6-24-2025

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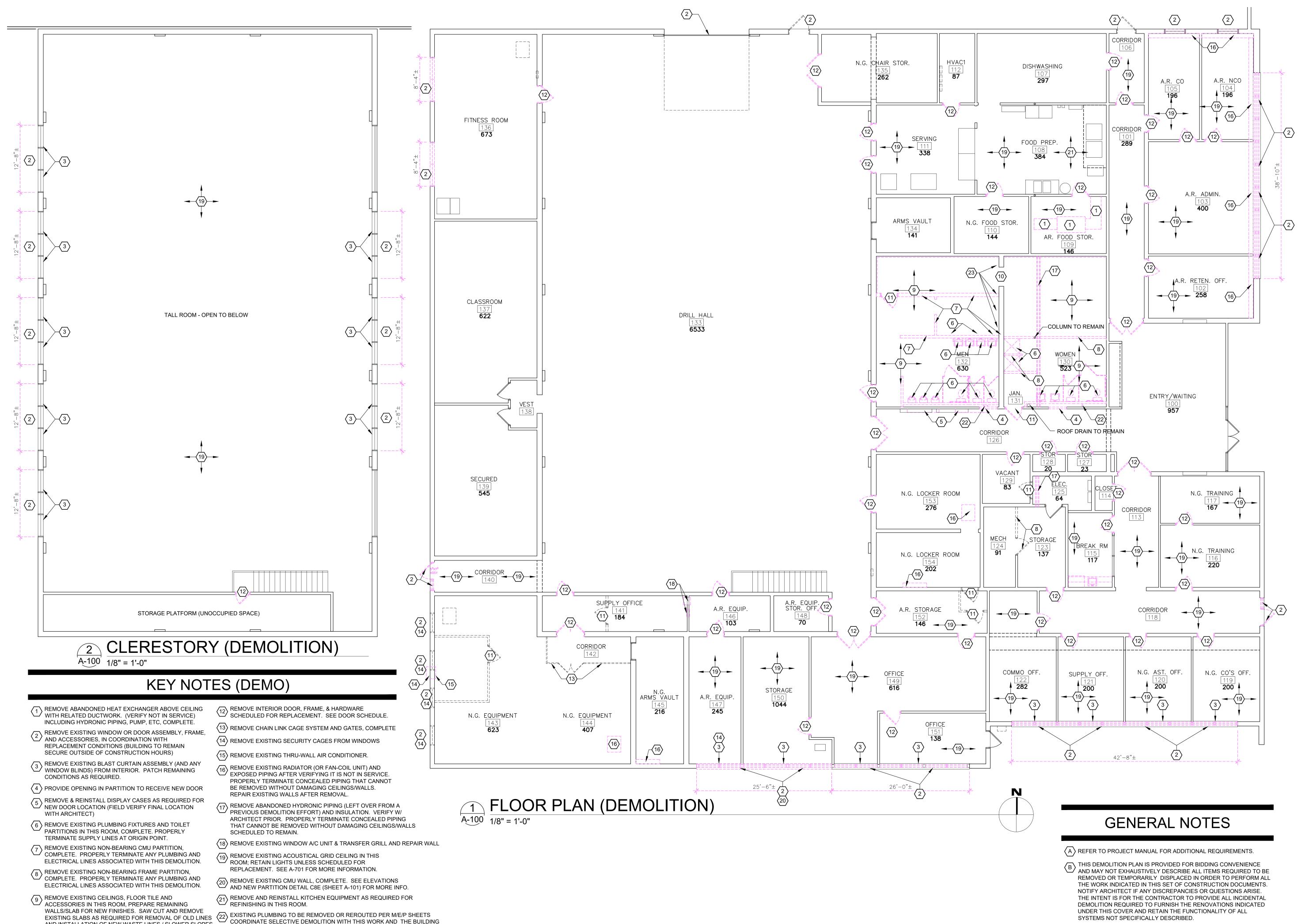
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SHEET TITLE:

CODE ANALYSIS PLAN

SHEET NUMBER:

G-101



AND INSTALLATION OF NEW WASTE LINES / SLOWER SLOPES.

REMOVE CASED OPENING TRIM AND PREPARE OPENING TO RECEIVE INFILL CONDITIONS (APPROX 3'-8"x7'-0")

REMOVE EXISTING DOOR & FRAME (NO NEW DOOR IN THIS LOCATION)

USAGE (WATER LINES MAY SERVE OTHER AREAS, ETC.)

AS REQUIRED BY NEW WASTE PLUMBING LAYOUT, DEMOLISH SELECTED PORTIONS OF ANY FOOTINGS BELOW THIS BEARING WALL IF REQUIRED FOR FLOW LINE. THE INTENTION IS

TO MINIMIZE DAMAGE TO FOOTINGS TO INSTALL NEW PLUMBING LINES. CONCEALED CONDITION.

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR





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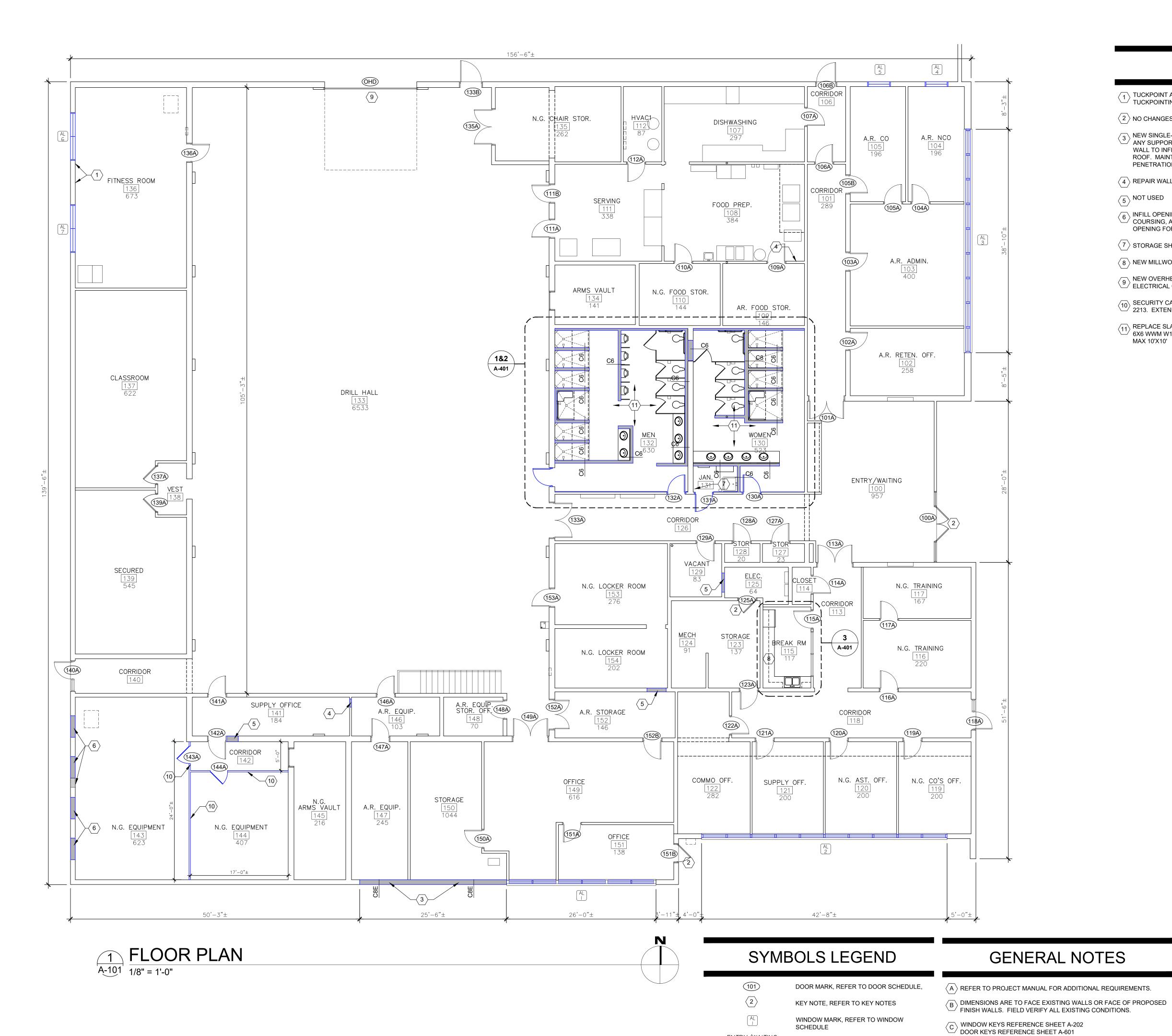
SHEET TITLE:

DEMOLITION FLOOR PLAN

SHEET NUMBER:

A-100

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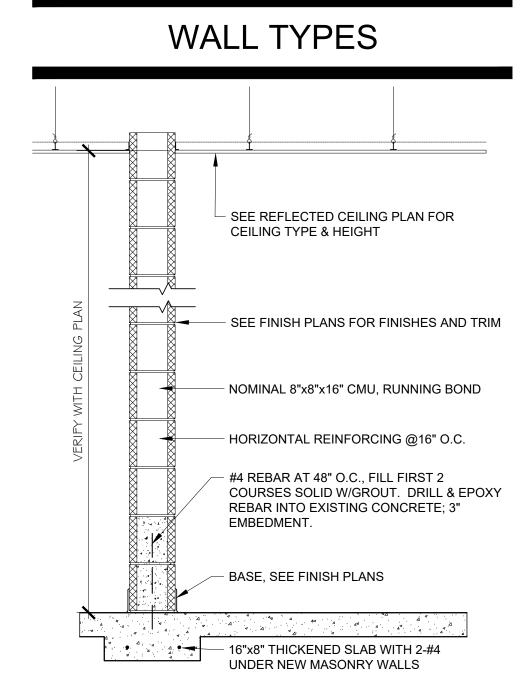


ENTRY/WAITING

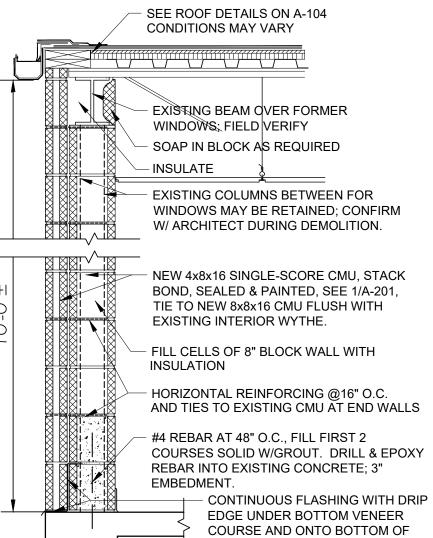
WALL TYPE, REFER TO WALL TYPES

KEY NOTES

- TUCKPOINT AND REPAIR INTERIOR CRACKS IN CMU AS PART OF EXTERIOR TUCKPOINTING OPERATIONS
- \langle 2 \rangle NO CHANGES TO THIS DOOR / FRAME / ASSEMBLY
- NEW SINGLE-SCORE CMU WALL, SEE WALL TYPE C8E. DESIGN INTENT IS TO PRESERVE ANY SUPPORTING COLUMNS AFTER WINDOW DEMOLITION, THEN PROVIDE A NEW 8" WALL TO INFILL FORMER WINDOW AND WAINSCOT AREA UP TO BEARING POINT OF ROOF. MAINTAIN ANY EXISTING BEAMS/COLUMNS AND ALL EXISTING PLUMBING PENETRATIONS IN THIS AREA.
- 4 REPAIR WALL FROM REMOVAL OF HVAC DEVICES
- 6 INFILL OPENING WITH MULTI-WYTHE BRICK/CMU TO MATCH EXISTING THICKNESS, COURSING, AND BOND PATTERN. APPLIES TO 4 FORMER WINDOWS AND FORMER OPENING FOR WINDOW AIR CONDITIONER.
- $\langle 7 \rangle$ STORAGE SHELVES, SEE 18/A-403
- 8 NEW MILLWORK AND SINK, SEE 16/A-403 AND 17/A-403
- NEW OVERHEAD DOOR AND OPENER, SEE DOOR SCHEDULE. CONNECT TO EXISTING ELECTRICAL CIRCUIT AND PROVIDE CONTROLS ON WALL NEXT TO DOOR.
- SECURITY CAGING WITH INTEGRAL CAGE DOORS, SEE SPECIFICATION SECTION 10 2213. EXTEND TO STRUCTURE ABOVE AND PROVIDE CAGE CEILING IN WALKWAY 142.
- REPLACE SLAB WITH MATCHING THICKNESS CONCRETE ON MIN 4" GRAVEL. PROVIDE 6X6 WWM W1.4X1.4 AND 10 MIL POLYETHYLENE VAPOR BARRIER. CONTROL JOINTS MAX 10'X10'



- C8 PARTITION: 8" CMU (SEE ABOVE)
- C6 PARTITION: SAME AS C8 EXCEPT 6" CMU
- C4 PARTITION: SAME AS C8 EXCEPT 4" CMU MAY BE REQUIRED FOR INFILL OF EXISTING OPENINGS, SUCH AS THE MEN'S ACCESSIBLE SHOWER AND OTHER/EXISTING MULTI-WYTHE CONFIGURATIONS

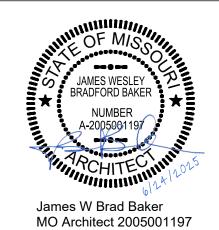


EXT WALL: NEW MULTI-WYTHE CMU PANEL TO REPLACE FORMER WINDOW WALL

INTERIOR BLOCK

— EXISTING SLAB & FOUNDATION

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**





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PROJECT # T2238-01 6297 8136297001 ASSET #

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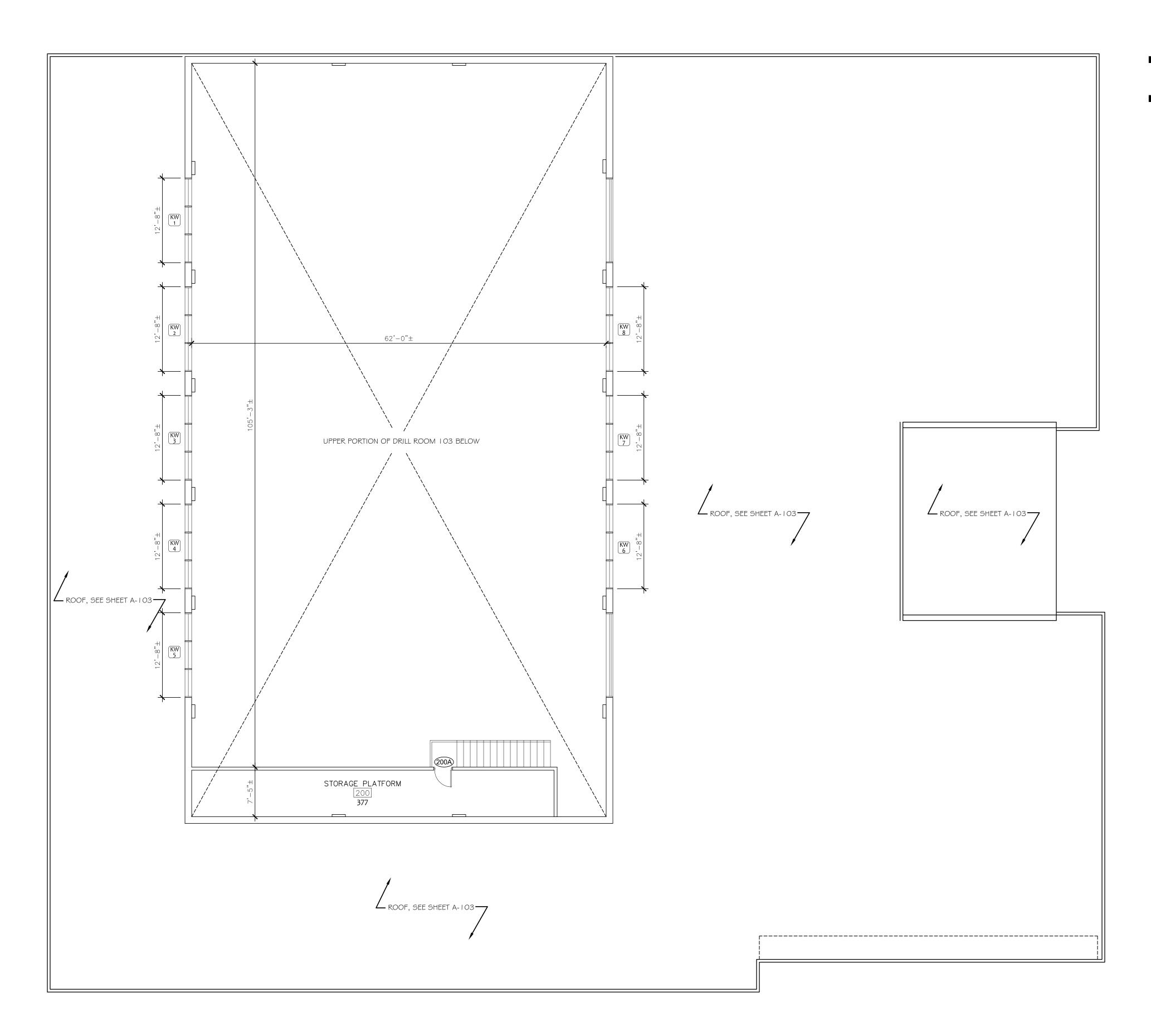
SHEET TITLE:

FLOOR PLAN

SHEET NUMBER:

A-101

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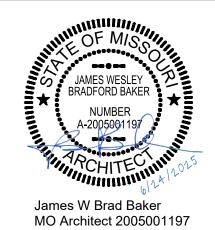
CLERESTORY PLAN (DRILL ROOM TALL WALLS) A-102 / 1/8" = 1'-0"



GENERAL NOTES

- THIS PLAN PROVIDED FOR GENERAL REFERENCE ABOUT THE UPPER PORTIONS OF THE DRILL ROOM WALLS, WHICH EXTEND ABOVE THE ADJACENT ROOF SURFACES AND ARE REFERRED TO AS THE "CLERESTORY" IN THESE DOCUMENTS. SEE EXTERIOR ELEVATIONS FOR MORE INFORMATION.
- B INFORMATION CONCERNING THE DRILL ROOM CEILING APPLIES EQUALLY WHETHER INDICATED ON THE MAIN LEVEL FLOOR PLAN OR CLERESTORY PLAN AS THIS IS THE SAME ROOM.







OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

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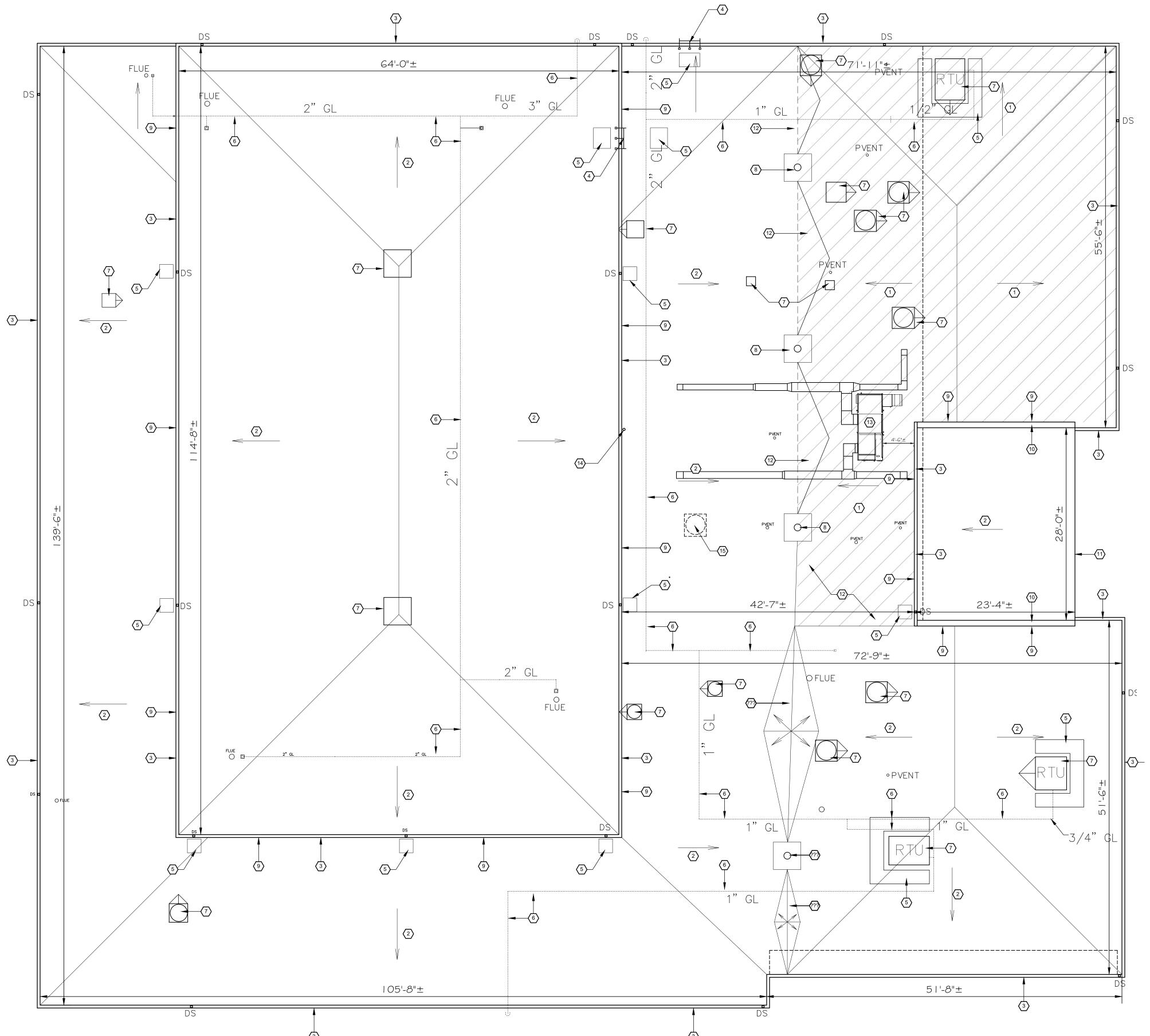
SHEET TITLE:

CLERESTORY PLAN

SHEET NUMBER:

A-102

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1 ROOF PLAN 1/8" = 1'-0"



KEY NOTES

EXISTING ROOFING SYSTEM: DEMO EXISTING EPDM ROOFING MEMBRANE, INSULATION DOWN TO EXISTING METAL DECK. DEMO EXISTING METAL GUTTERS, DOWNSPOUTS, FLASHING, CAPS, ETC, PROVIDE NEW. (WHOLE BUILDING)

NEW ROOFING: FULLY ADHERED 60 MIL TPO ROOFING; BASIS OF DESIGN IS CARLISLE SURE-WELD REINFORCED MEMBRANE, WHITE, ON 1/2" HIGH DENSITY FIBERBOARD COVER BOARD, SCREWED DOWN ON R-30 INSULATION. PROVIDE 1/2" CRICKETS BEHIND ALL ROOF TOP ITEMS AND PENETRATIONS. SEE LIST OF ALTERNATE MANUFACTURERS IN TPO ROOFING SPECIFICATION OR PROVIDE A SUBSTITUTION REQUEST FORM DURING BIDDING FOR OTHER PROPOSED ALTERNATIVES.

WARRANTY REQUIREMENTS; 75 MPH UPLIFT, 20 YEAR MINIMUM.

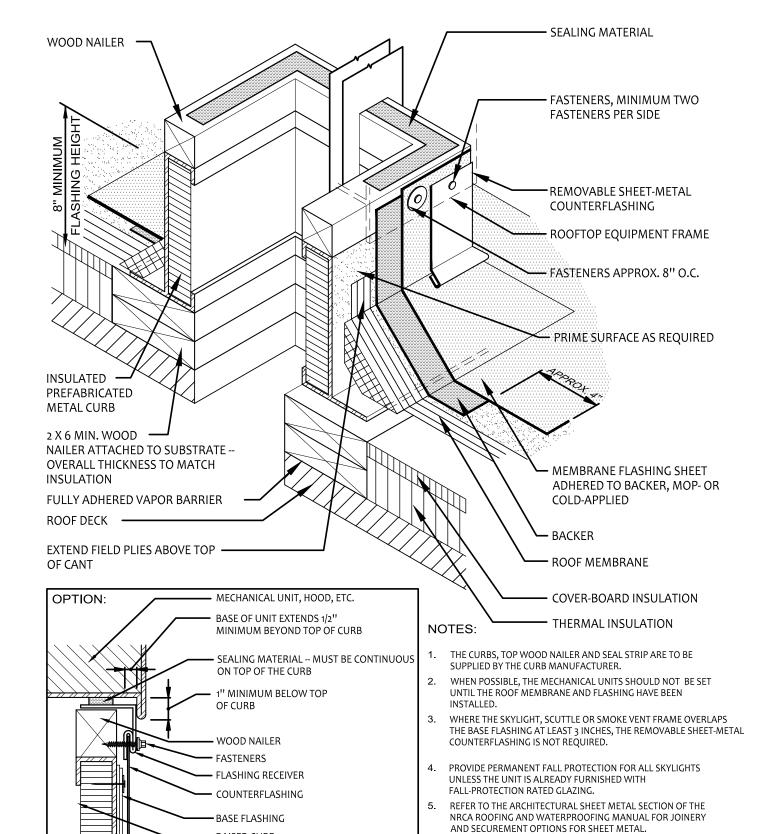
VERIFY EQUIPMENT, CURB, AND FLASHING CLEARANCES REQUIRED FOR INSULATION BOARD INDICATED. NOTIFY ARCHITECT IF ANY DISCREPANCY IS FOUND PRIOR TO TEAROFF.

BASE BID TO INCLUDE UP TO 500 SQUARE FEET OF METAL ROOF DECK REPLACEMENT FROM ANY DAMAGE THAT IS FOUND DURING THE ROOFING OPERATIONS. SEE SPECIFICATION MANUAL FOR UNIT PRICING REQUIREMENTS THAT MAY AFFECT THIS BASE VALUE.

- ROOF DECK BELOW HATCHED AREA ALREADY SLOPES $\frac{1}{4}$ " IN 12" BELOW THE INSULATION BOARD
- TAPER ALL OTHER AREAS AS INDICATED TO MAINTAIN 1/4" IN 12" ROOF SLOPE DOWN IN THE DIRECTIONS INDICATED. THE INTENTION IS TO MATCH THE EXISTING ROOF SLOPES PRIOR TO TEAR-OFF EXCEPT AS NOTED OR AS FIELD COORDINATED WITH ARCHITECT.
- DEMO GUTTER, DOWNSPOUTS AND FLASHING, REPLACE AND MATCH EXISTING PROFILES, SIZES, STRAPS AND DOWNSPOUT LOCATIONS. SEAL ALL JOINTS AND CONNECTIONS IN GUTTER SYSTEM. COMPLETE.
- (4) REMOVE AND REINSTALL LADDER GUIDE AS REQUIRED FOR NEW ROOF
- 5 PROVIDE HOUSEKEEPING PADS AS INDICATED
- 6 DEMO EXISTING WOOD GAS PIPING SUPPORTS, PROVIDE NEW FABRICATED PIPE SUPPORTS AND CLAMPS PER DETAIL 2/A-103
- 7) ROOF TOP HVAC UNIT, OR EXHAUST FAN, ETC, PROVIDE 1/2" TAPERED 45° INSULATION CRICKET, FLASHING AND TERMINATION
- 8 REUSE EXISTING ROOF DRAIN
- DEMO EXISTING WALL FLASHING AND TERMINATION BAR, PROVIDE NEW IN PREFINISHED METAL. CLEAN AND PREPARE BRICK FOR NEW SEALANT
- DEMO EXISTING, PROVIDE NEW PREFINISHED METAL COPING CAP WITH 4" FASCIA, PROVIDE NEW TREATED BLOCKING AS REQUIRED
- DEMO EXISTING, PROVIDE NEW PREFINISHED METAL ROOF EDGE FLASHING AND FASCIA, MATCH EXISTING PROFILE.
- FIELD VERIFY AND COORDINATE PROPER TAPPERED INSULATION CRICKETS TO DRAINS AND ROOF TRANSITIONS, VERIFY WITH ARCHITECT DURING SHOP DRAWING PROCESS, PROVIDE POSITIVE 1/4"/1'-0"
- NEW ROOF-TOP MECHANICAL UNIT WITH CURB, SEE MECHANICAL SHEETS FOR MORE INFORMATION. NEW SYSTEM WILL HAVE ABOVE-ROOF DUCTWORK WITH PENETRATIONS DOWN TO BUILDING INTERIOR AS THE SPACE ABOVE THE LATRINE CEILINGS IS LIMITED.
- REMOVE AND REINSTALL HF ANTENNA/MAST WITH GUY WIRES AS PART OF THE RE-ROOFING OPERATIONS.
- REMOVE EXHAUST SYSTEM FROM ORIGINAL LATRINE AREA AND PATCH ROOF DECK TO MATCH.

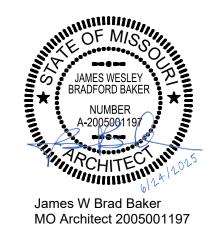
GENERAL NOTES

- CONTRACTOR TO INCLUDE 2,000 SF OF METAL DECKING REPLACEMENT AS PART OF THE BASE BID TO COVER UNFORESEEN DAMAGE IF REQUIRED. SEE SPECIFICATION SECTION 01 2200 "UNIT PRICES" FOR MORE INFORMATION AND IDENTIFY THE REQUIRED VALUES ON THE BID FORM.
- B REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- © REFER TO PRE-ENGINEERED METAL BUILDING SUBMITTALS FOR ADDITIONAL REQUIREMENTS.
- REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ALL ROOF-MOUNTED EQUIPMENT SIZES AND TYPES, INCLUDING VENT PIPES, FLUES, AND EXHAUST. ALL PIPE FLASHING PENETRATIONS THROUGH ROOF SHALL BE TYPE APPROVED BY PRE-ENGINEERED METAL BUILDING MANUFACTURER WITH SHEET METAL FINISHES TO MATCH ROOF PANEL. PENETRATIONS WITH DIAMETER LESS THAN SPACING OF ROOF PANEL RIBS SHALL PENETRATE IN THE CENTER OF THE ROOF PANEL.
- ALL SUPPORTS FOR EXPOSED ROOF MOUNTED PIPING, CONDUIT, FALL PROTECTION DEVICES, SNOW GUARDS, ETC. TO BE MOUNTED ON PRE-MANUFACTURED ALUMINUM S-5 CLAMPS ATTACHED TO TOP OF PRE-ENGINEERED METAL BUILDING ROOF SEAMS. ALL FRAMING, SUPPORTS, AND FASTENERS SHALL BE NON-CORROSIVE MATERIAL TYPES. EXPOSED FINISHES TO MATCH ROOF COLOR, UNLESS OTHERWISE INDICATED.
- G ALL ROOF PENETRATIONS TO BE 3'-6" MINIMUM FROM ROOF EDGE PERIMETERS.
- SHEET METAL CONSTRUCTION SHALL COMPLY WITH SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA) DESIGN STANDARDS AND RECOMMENDATIONS.
- ROOFING CONSTRUCTION SHALL COMPLY WITH NATIONAL ROOFING CONTRACTORS ASSOCIATION (NRCA) DESIGN STANDARDS AND RECOMMENDATIONS.
- REFER TO EXTERIOR FINISH SCHEDULE FOR ADDITIONAL REQUIREMENTS.
- PROVIDE FALL PROTECTION AS REQUIRED BY OSHA AND OTHER APPLICABLE STANDARDS. PROTECT OVERHEAD ELECTRIC WIRES DURING ROOFING OPERATIONS.
- ROOF REPLACEMENT MAY NOT OCCUR BETWEEN NOVEMBER 1 AND MARCH 1 WITHOUT SPECIFIC APPROVAL FROM THE OWNER.
- THE MECHANICAL AND PLUMBING DESIGN FOR THE LATRINES REQUIRE NEW PENETRATIONS OF THE ROOF DECK AND THE ABANDONMENT OF CERTAIN EXISTING VENTS AND EXHAUST FANS. THE CONTRACTOR SHALL SEQUENCE THE WORK SUCH THAT THESE CHANGES IN PENETRATION OCCUR BEFORE, OR IN CONJUNCTION WITH THE RE-ROOF OPERATIONS AND NOT AFTER THE FACT.





STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR





ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT, DESIGN
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OFFICE OF

MISSOURI NATIONAL GUARD DEPT. OF ADJUTANT GENERAL

ROOF, TUCKPOINT REPAIR & INTERIOR RENOVATION ROLLA READINESS CENTER

ROLLA READINESS CENTER 201 FAIRGROUNDS ROAD ROLLA, MISOURI 65401

PROJECT # T2238-01 SITE # 6297 ASSET # 8136297001

REVISION:
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DATE:
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CAD DWG FILE: T2238-01 6297 8136297001-A-103
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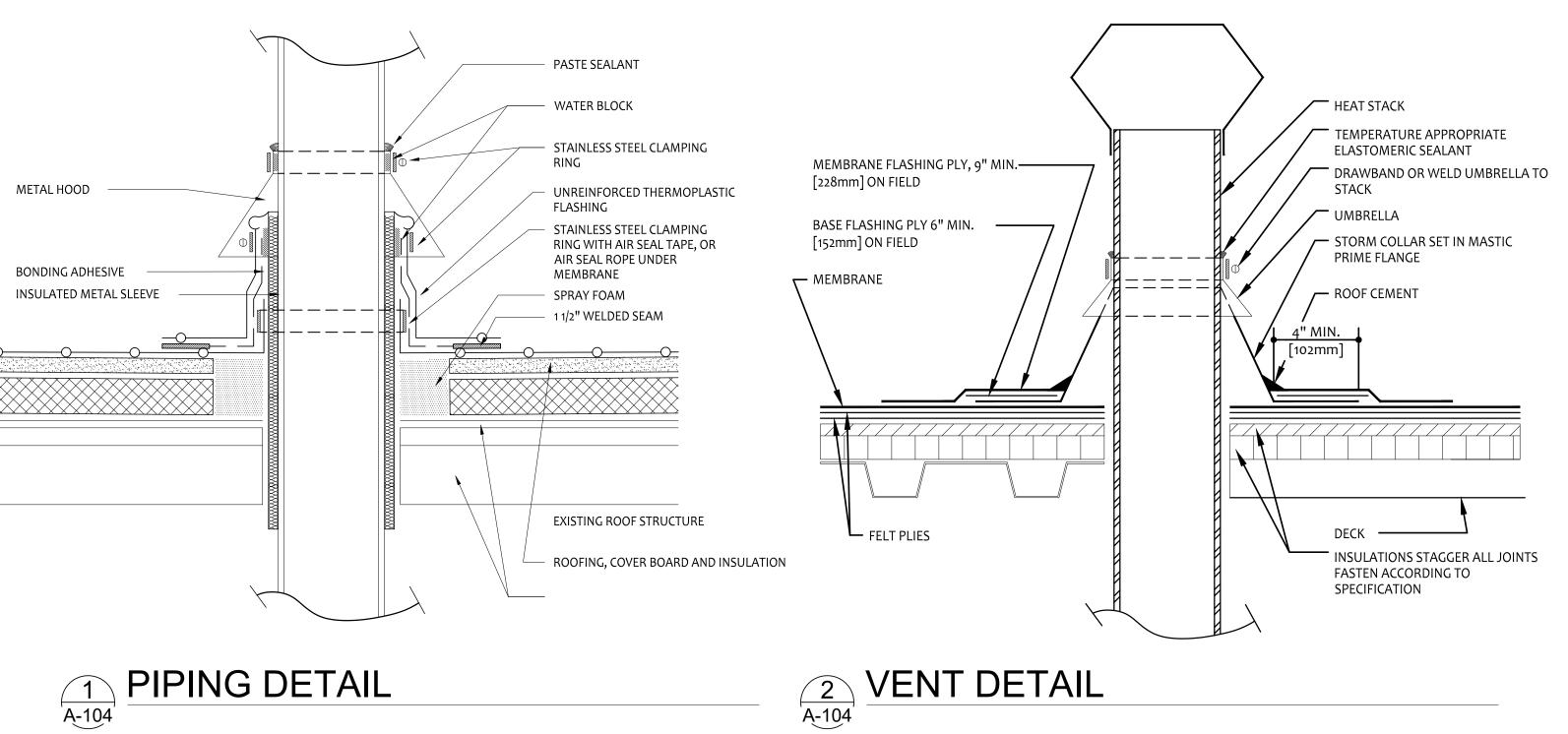
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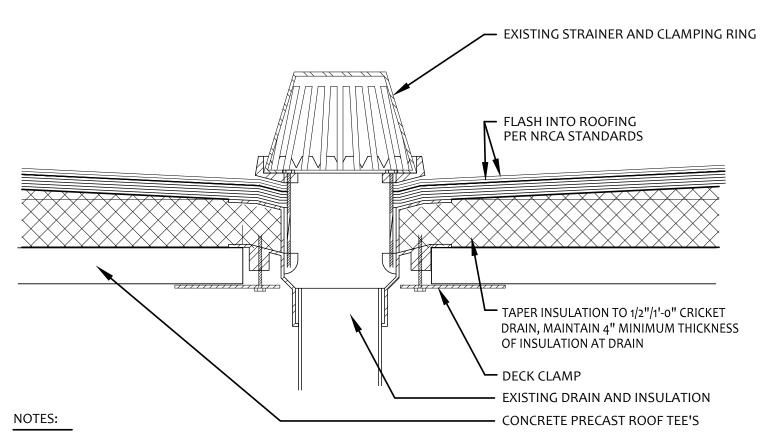
ROOF PLAN

SHEET NUMBER:

A-103

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1. MEMBRANE PLIES, METAL FLASHING, AND FLASH-IN PLIES EXTEND UNDER CLAMPING RING.

2. STRIPPING FELTS-EXTEND 4" AND 6" BEYOND EDGE OF FLASHING SHEET, BUT NOT BEYOND

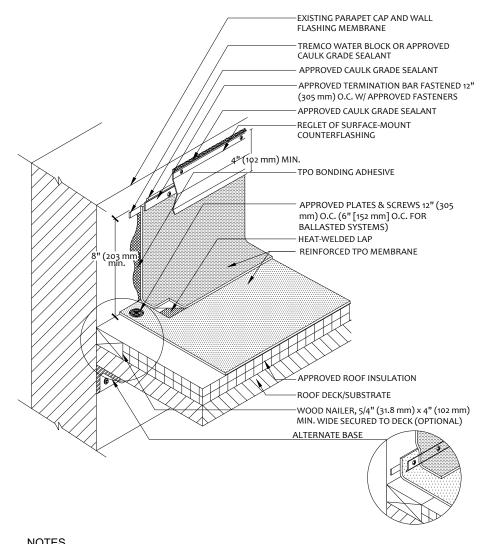
3 ROOF DRAIN DETAIL

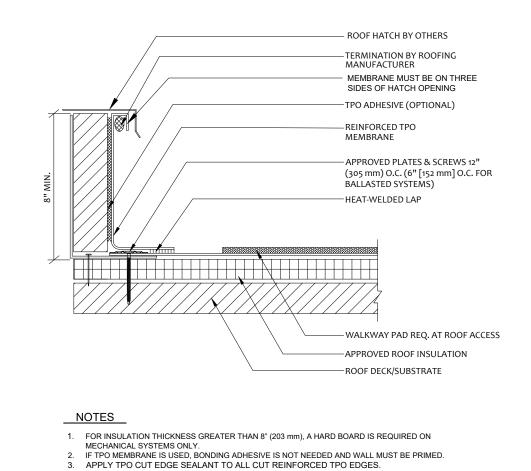
A-104 AT EXISTING DRAINS

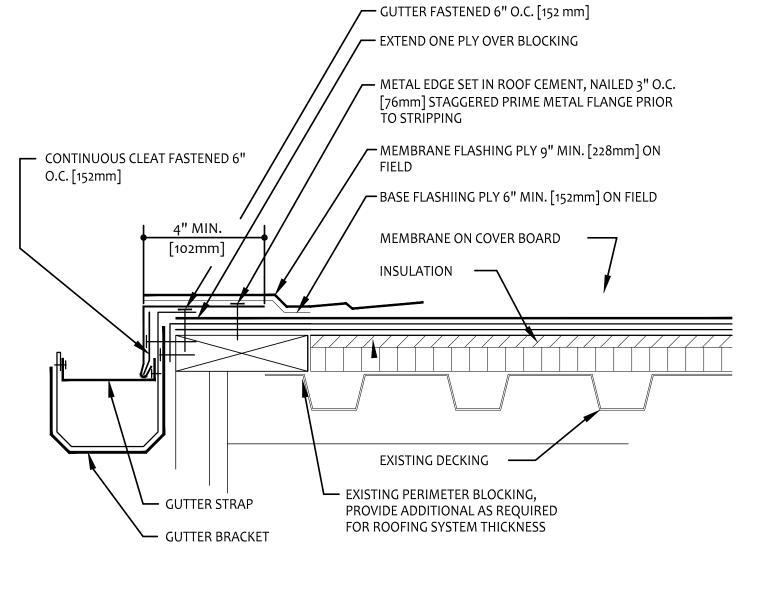
- ROOF PROJECTION -TPO COATED METAL -APPROVED POURABLE SEALANT -QUICK-SET NON-SHRINK GROUT HEMMED EDGE FASTENED 12" (305 FASTENERS OR MIN. 4 PER BOX. — HEAT-WELDED LAP (SEE NOTE #5) _TPO 6" (152 mm) WIDE FLASHING STRIP HEAT-WELDED INSULATION ROOF DECK/SUBSTRATE

- 1. FOR INSULATION THICKNESS GREATER THAN 8" (203 mm), A HARD BOARD IS REQUIRED ON MECHANICAL
- 2. BEND TPO COATED METAL TO FORM A SEALANT BOX AS SHOWN. STRIP-IN VERTICAL SEAM WHERE BOX IS JOINED TOGETHER. ALLOW 2" (52 mm) CLEARANCE AROUND THE PROJECTION. IF MULTIPLE PROJECTIONS, ALLOW 1" (25.4 mm) BETWEEN PROJECTION AND BOX.
- INSIDE SURFACE OF TPO COATED METAL SEALANT BOX (BARE METAL SIDE) MUST BE CLEAN AND DRY BEFORE SEALANT IS APPLIED.
- 5. EXISTING PROJECTION MUST BE CLEANED AND FREE OF ANY INSULATING MATERIALS.
 6. APPLY TPO CUT EDGE SEALANT TO ALL CUT REINFORCED TPO EDGES.

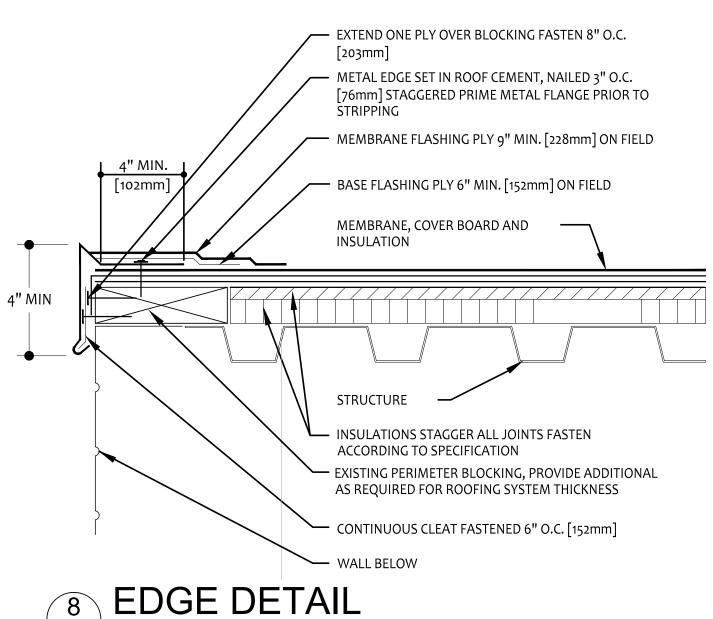
A-104 AT SEALANT BOX





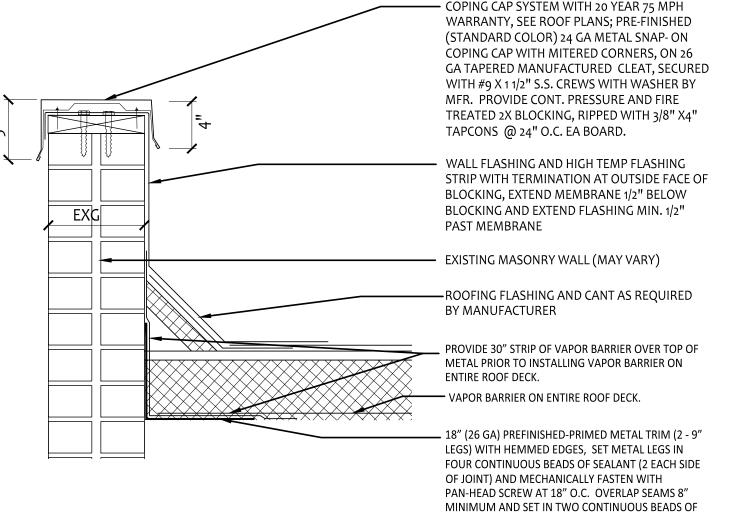


EDGE OF SUMP.



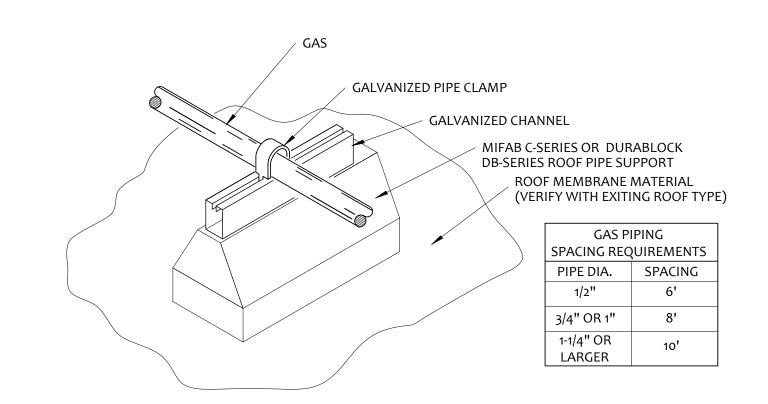
5 WALL FLASHING WITH COUNTER FLASHING





9 PARAPET DETAIL

A-104 FIELD ADJUST FOR EXISTING CONDITIONS



GUTTER @ EDGE DETAIL

B SEE ROOF PLAN AND MECHANICAL/PLUMBING SHEETS FOR ADDITIONAL INFORMATION

GENERAL NOTES

DETAILS ON THIS PAGE ARE OFFERED TO ILLUSTRATE THE DESIGN INTENT FOR BIDDING PURPOSES AND MAY REQUIRE ADJUSTMENTS TO COMPLY WITH THE WARRANTY REQUIREMENTS OF THE FINAL ROOFING SYSTEM USED ON THE PROJECT AND TO COORDINATE WITH EXISTING CONDITIONS.

PIPE SUPPORT DETAIL

1. APPLY TPO CUT EDGE SEALANT TO ALL CUT REINFORCED TPO EDGES.

4 PENETRATION FLASHING

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MANAGEMENT, DESIGN

AND CONSTRUCTION

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**

JAMES WESLE

BRADFORD BAKER

MO Architect 2005001197

S C 658C

MISSOURI NATIONAL GUARD DEPT. OF ADJUTANT GENERAL

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ROLLA READINESS CENTER 201 FAIRGROUNDS ROAD ROLLA, MISOURI 65401

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REVISION: DATE: **REVISION**: **REVISION**: DATE:

ISSUE DATE: 6-24-2025

CAD DWG FILE: T2238-01 6297 8136297001-A-104 DRAWN BY: BB CHECKED BY: JB

SHEET TITLE:

ROOF DETAILS

SHEET NUMBER:

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RTM Engineering Consultants, LLC 3045 S Kansas Expressway Springfield, MO 65807 417.708.9315 MO CofA 2014035826

MEMORANDUM DATE

July 26, 2024

Brad Baker – GHN Architects + Engineers

Missouri National Guard Armory - New Roof Top Unit

FROM Harrison Schober

COPY John Miller

0.000

This memo serves as a follow up to the site visit we made to review the existing roof framing at the Missouri National Guard Armory in Rolla on July 17, 2024. We reviewed the existing roof bar joists in preparation for a new 1,600 lb roof top unit.

In the area of the new roof top unit, the roof is framed with 14" deep bar joists at approximately 4'-6" on center. The bar joists in this area bear on a W12 beam at one end of the span, and a CMU wall at the other end. The joists penetrate through a non-load bearing wall. The bottom chord of the bar joists consists of 1-1/4"x1-1/4"x1/8" angles, and the top chord consists of 1-1/2"x1-1/2"x1/8" angles. The joist web members are round bars of approximately 5/8" diameter. A top chord extension of (2) 3"x2"x1/4" angles is present to support the roof past the W12 beam. The new roof top unit is expected to be located approximately 12' from the CMU bearing end of the span.

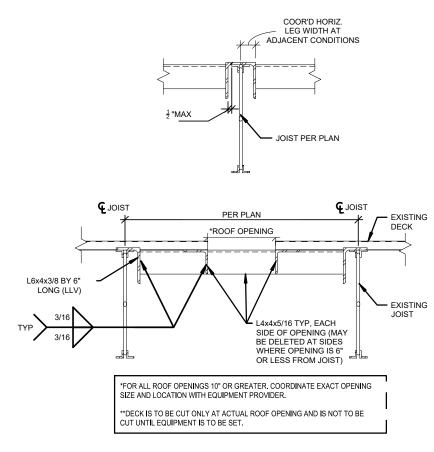
Our review determined that the existing bar joists should be adequate to support the required loading from the new roof top unit. See attached details for reinforcing requirements if curb is not positioned at a joist panel point and reinforcing requirements at roof penetrations.

Thank you for the opportunity to be of assistance. If you have any questions, please do not hesitate to contact us.

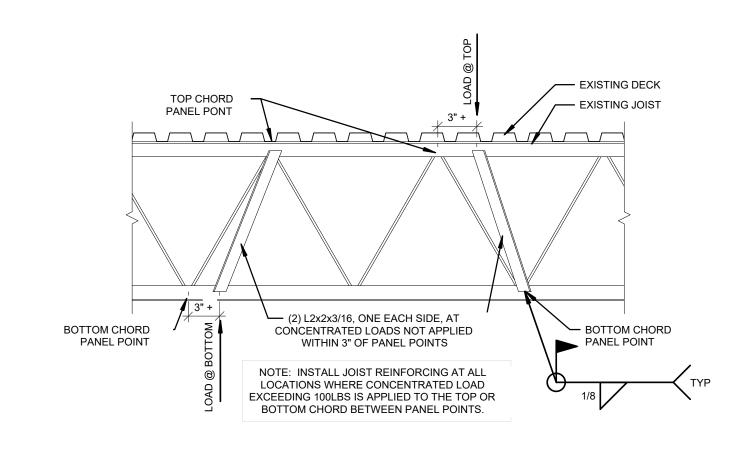


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JOIST REINFORCING DETAIL

SCALE 3/4" = 1'-0"

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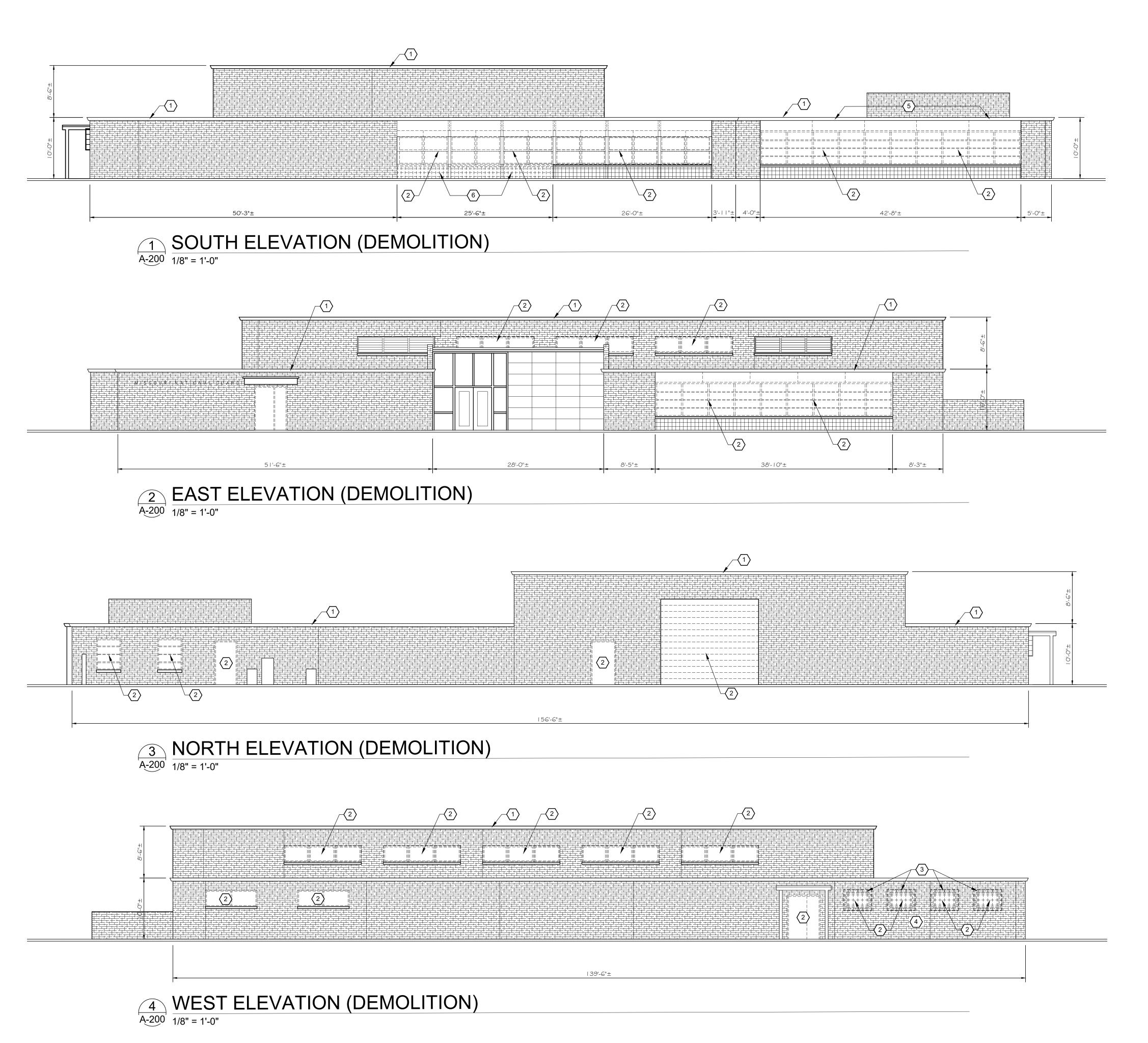
SHEET TITLE:

ROOF STRUCTURAL DETAILS FOR RTU

SHEET NUMBER:

A-105

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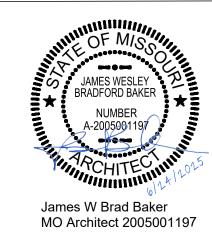
GENERAL NOTES

- (A) REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- B DIMENSIONS ARE TO FACE EXISTING WALLS OR FACE OF PROPOSED FINISH WALLS. FIELD VERIFY ALL EXISTING CONDITIONS.
- REFER TO SCOPE OF WORK SCHEDULE FOR ADDITIONAL REQUIREMENTS. OWNER'S FURNISHED AND INSTALLED FURNITURE AND EQUIPMENT SHOW FOR REFERENCE ONLY (N.I.C.).

KEY NOTES (DEMO)

- REMOVE EXISTING GUTTERS AND DOWNSPOUTS AS PART OF ROOF WORK; DOWNSPOUTS NOT SHOWN.
- REMOVE EXISTING WINDOW OR DOOR ASSEMBLY, FRAME, AND ACCESSORIES, IN COORDINATION WITH REPLACEMENT CONDITIONS (BUILDING TO REMAIN SECURE OUTSIDE OF CONSTRUCTION HOURS)
- (3) REMOVE EXISTING SECURITY BARS AND FRAME
- 4 REMOVE EXISTING THRU-WALL A/C UNIT
- FEPLACE 2x FASCIA BOARD(S) IF REQUIRED FROM PREVIOUS WATER DAMAGE BEFORE REINSTALLATION OF GUTTER. PAINT TO MATCH EXISTING AND TOUCH UP SOFFIT IN THIS AREA IN GENERAL
- REMOVE EXISTING CMU DOWN TO SLAB IN AREAS SCHEDULED TO RECEIVE THE NEW CMU WALL. SAW CUT AGAINST ADJACENT CMU AS REQUIRED. NOTIFY ARCHITECT IF STEEL COLUMNS BEAR ON THIS CMU PRIOR TO DEMOLITION AS THIS WILL REQUIRE A DESIGN CHANGE.

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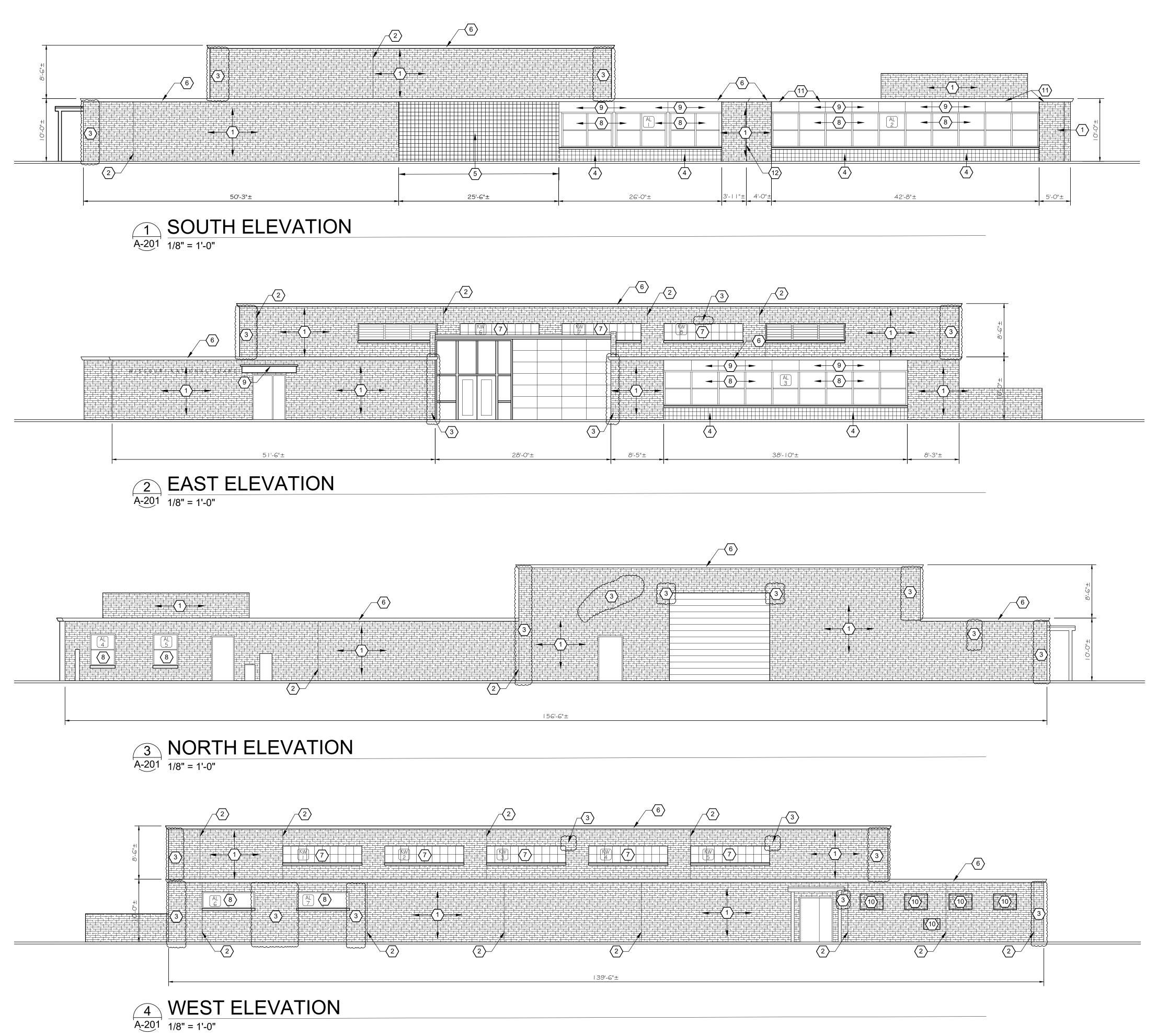
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DEMOLITION ELEVATIONS

SHEET NUMBER:

A-200

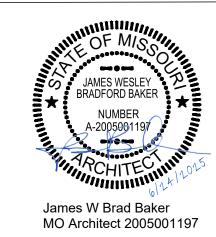
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KEY NOTES

- CLEAN AND SEAL ALL MASONRY VENEERS, ALL EXTERIOR MASONRY SURFACES ON THE BUILDING, WHETHER OR NOT KEYED ON THE DRAWINGS OR VISIBLE IN THESE ELEVATION VIEWS.
- 2 REPLACE ALL VERTICAL MASONRY EXPANSION JOINT SEALS
- TUCKPOINT MASONRY JOINTS AND CRACKS. BASE BID SHALL INCLUDE A TUCKPOINTING IMPACT AREA OF 1,000 SQUARE FEET OF WALL SURFACE. SEE SPECIFICATION SECTION 01 2200 "UNIT PRICES" FOR MORE INFORMATION AND IDENTIFY THE REQUIRED VALUES ON THE BID FORM. ARCHITECT HAS HIGHLIGHTED AREAS OF SPECIAL CONCERN WITH CLOUDS ON THIS ELEVATION, BUT THE CONTRACTOR WILL BE RESPONSIBLE FOR EXAMINING ALL SURFACES AND PROPOSING THE FINAL AREA FOR ARCHITECT/OWNER CONCURRENCE AND A PROPOSED MODIFICATION TO THE CONTRACT SUM BASED ON THE UNIT PRICE.
- 4 CLEAN AND PAINT EXISTING SINGLE SCORE CMU
- 5 NEW SINGLE-SCORE CMU WALL AREA, PAINTED
- 6 NEW GUTTERS AND DOWNSPOUTS (NOT SHOWN, SEE ROOF PLAN FOR LOCATIONS)
- $\overline{7}$ NEW SPECIAL TRANSLUCENT WINDOW SYSTEM, SEE A-202
- 8 NEW WINDOWS, SEE SCHEDULE & DETAILS, SEE A-202
- 9 CLEAN AND PAINT EXISTING SHEET METAL SPANDREL PANELS; CAULK AROUND PERIMETER
- 10 INFILL FORMER OPENING WITH BRICK. MATCH COLOR, COURSING, AND BOND PATTERN
- REPLACE 2x FASCIA BOARD AND REPAINT TO MATCH EXISTING. REPAIR AND TOUCH UP ADJACENT PAINTED WOOD PANELS UNDER SOFFIT OVERHANG IN THIS AREA
- (12) CLEAN AND PAINT EXTERIOR DOOR IN OFFICE 151 (NOT VISIBLE ON ELEVATION VIEWS)

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR





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ASSET # 8136297001

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ISSUE DATE: 6-24-202

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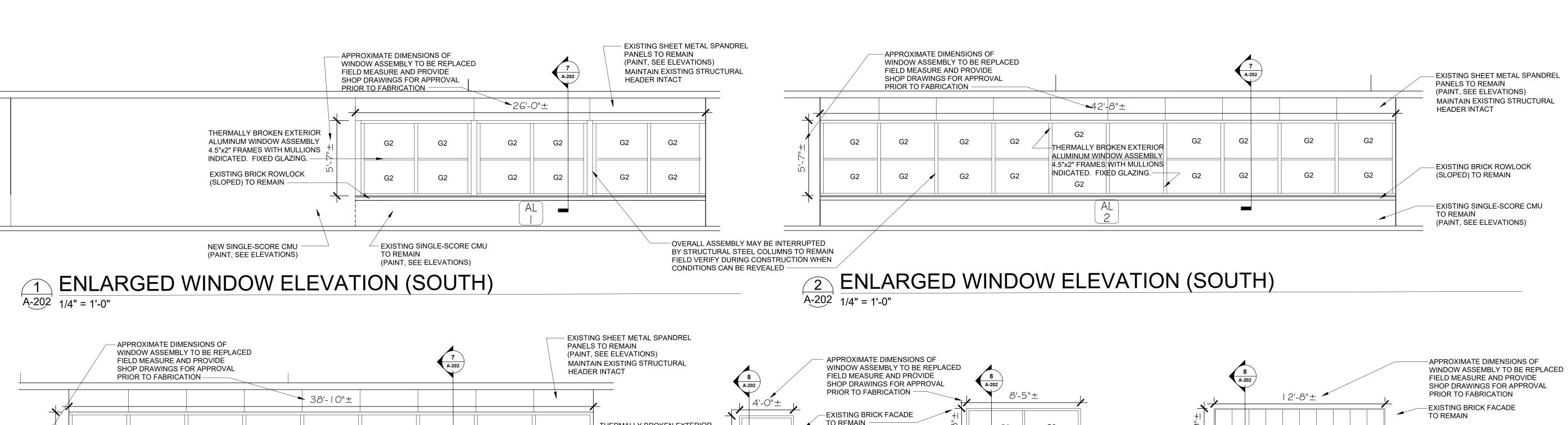
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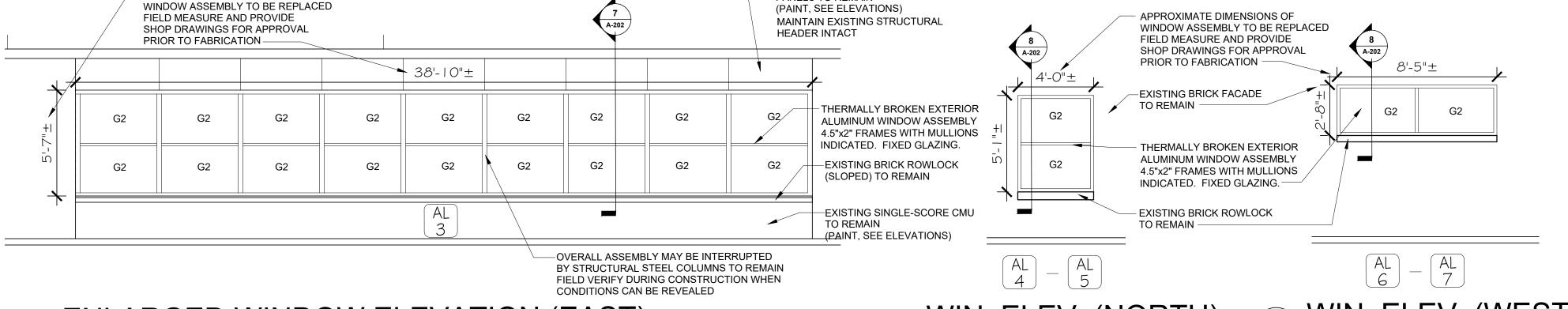
EXTERIOR ELEVATIONS

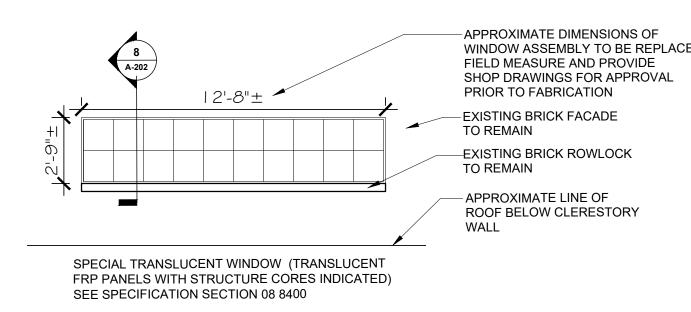
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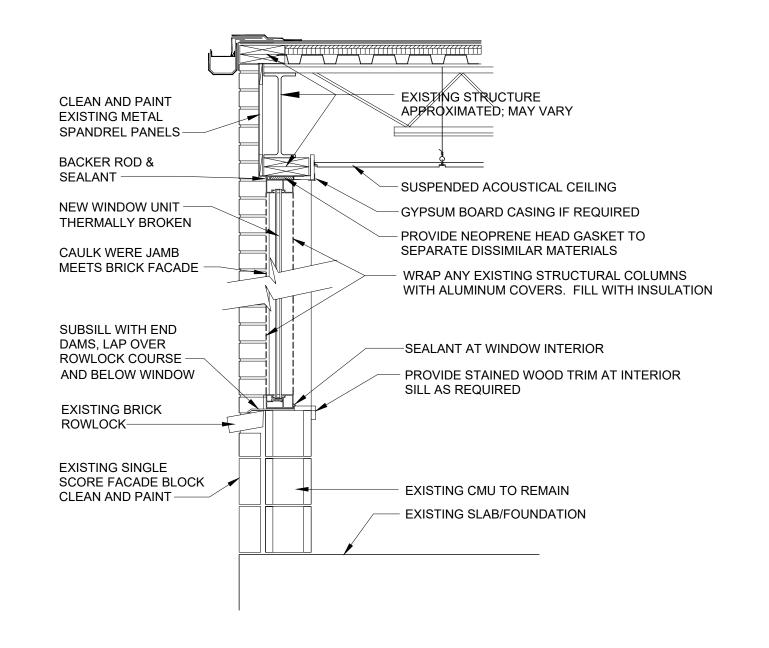


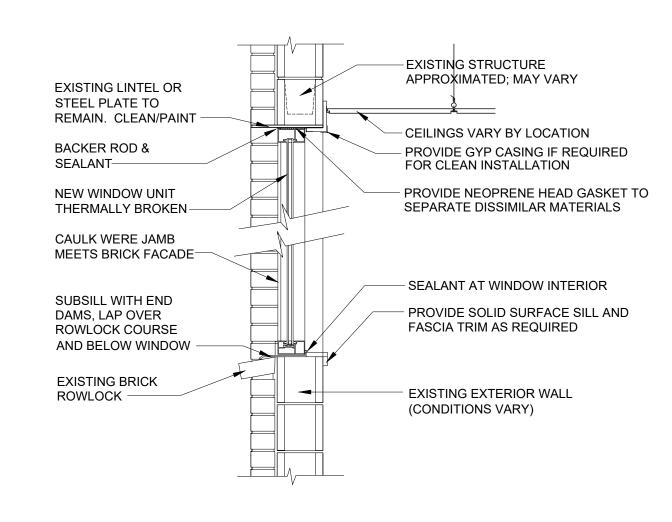
3 ENLARGED WINDOW ELEVATION (EAST)
1/4" = 1'-0"











GLAZING SCHEDULE ALSO APPLIES TO DOOR SCHEDULE ON A-601

TYPE G1: 1/4" SAFETY GLASS - CLEAR

1" INSULATED SAFETY (FULLY TEMPERED) GLAZING: (REFER TO PROJECT MANUAL SECTION 08 80 00 GLAZING FOR ADDITIONAL

EXTERIOR PANE: 1/4" TINTED (SOLARGRAY) (2) SURFACE (LOW-E), HEAT-TREATED (FT) AIR CAVITY: 1/2" INTERIOR PANE: 1/4" CLEAR, HEAT-TREATED (FT)

PERFORMANCE REQUIREMENTS:

REQUIREMENTS).

VISIBLE LIGHT TRANSMITTANCE (VLT): 35 VISIBLE LIGHT REFLECTANCE (EXTERIOR %): 7 VISIBLE LIGHT REFLECTANCE (INTERIOR %): 10 (NFRC) U-VALUE (WINTER NIGHTTIME): 0.29 SOLAR HEAT GAIN COEFFICIENT (SHGC): 0.25 LIGHT TO SOLAR GAIN (LSG): 1.65

GENERAL NOTES

PROVIDE ALUMINUM SUBSILLS FOR ALL NEW WINDOWS, TYPICAL.

2. FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO ORDERING NEW WINDOWS. THE FINAL WINDOW DESIGNS WILL REQUIRE COORDINATION WITH THE INDIVIDUAL OPENING SIZES BETWEEN STEEL COLUMNS AND CMU TO REMAIN..

3. SEE DOOR SCHEDULE FOR INFORMATION ABOUT ALUMINUM LITES ADJACENT TO

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**





ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

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CAD DWG FILE: T2238-01 6297 8136297001-A-202 DRAWN BY: CHECKED BY: JB

SHEET TITLE:

WINDOW SCHEDULE & **DETAILS**





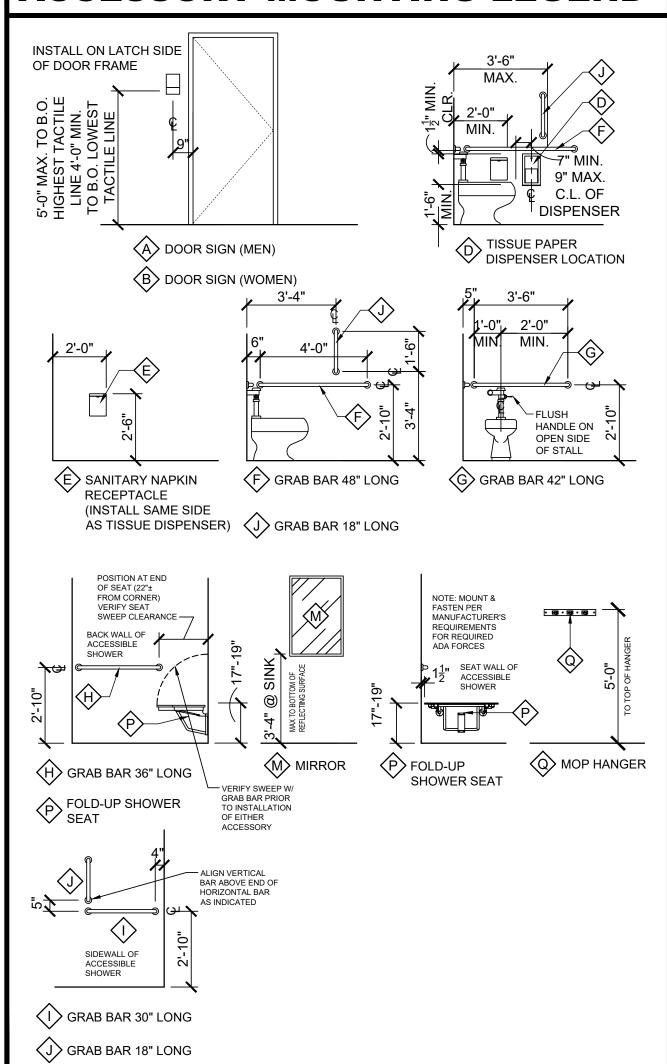
ACCESSORY SCHEDULE DESCRIPTION **MANUFACTURER** SERIES / MODEL MOUNTING LOCATION ACCESSORY NOTES ACCESSIBLE R.R. (REFER TO PROJECT (REFER TO PROJECT **REFER PLANS &** SIGN (MEN) MANUAL) MANUAL) DETAIL 4/A-401 (REFER TO PROJECT ACCESSIBLE R.R. (REFER TO PROJECT **REFER PLANS &** SIGN (WOMEN) MANUAL) DETAIL 4/A-401 (REFER TO PROJECT REFER PLANS, **TOILET PARTITIONS** MANUAL) ELEVATIONS, LEGEND (REFER TO PROJECT REFER PLANS, TISSUE PAPER DOUBLE ROLL, DISPENSER MANUAL) STACKED **ELEVATIONS, LEGEND** (REFER TO PROJECT REFER TO PROJEC REFER PLANS, SANITARY NAPKIN RECEPTACLE MANUAL) MANUAL) ELEVATIONS, LEGEND (REFER TO PROJEC 48" LENGTH GRAB BAR ELEVATIONS, LEGEND MANUAL) (REFER TO PROJEC REFER PLANS, **GRAB BAR** 42" LENGTH MANUAL) ELEVATIONS, LEGEND (REFER TO PROJECT REFER PLANS, 36" LENGTH **GRAB BAR** MANUAL) ELEVATIONS, LEGEND (REFER TO PROJEC REFER PLANS, GRAB BAR 30" LENGTH MANUAL) ELEVATIONS, LEGEND (REFER TO PROJEC REFER PLANS, 18" LENGTH **GRAB BAR** MANUAL) ELEVATIONS, LEGEND ACCESSIBLE UNIT (REFER TO PROJECT (REFER TO PROJEC 48" MAX. A.F.F. TO DOUBLE ROBE HOOK CENTER MANUAL) MANUAL) (REFER TO PROJECT REFER TO PROJEC 68" A.F.F. TO CENTER (L) | DOUBLE ROBE HOOK | 2-PER SHOWER MANUAL) MANUAL) (REFER TO PROJECT REFER PLANS, **MIRROR** 1 PER LAVATORY 24" W. x 36" H. ELEVATIONS, LEGEND MANUAL) 2-PER SHOWER STAINLESS CORNER (REFER TO PROJECT (REFER TO PROJECT 48" MAX. A.F.F. TOP OF (ONE EACH SIDE) SHOWER TRAY MANUAL) MANUAL) SHOWER CURTAIN (REFER TO PROJECT (REFER TO PROJEC REFER TO DETAILS NOTES 2 & 3 ROD MANUAL) MANUAL) **FOLD-UP SHOWER** (REFER TO PROJECT (REFER TO PROJEC ELEVATIONS, LEGEND MANUAL) MANUAL) TOP OF SHELF 60" (REFER TO PROJEC^{*} (REFER TO PROJEC⁻ MOP HANGER A.F.F. MANUAL) MANUAL) (REFER TO PROJECT REFER PLANS, (REFER TO PROJECT **URINAL SCREENS** NOTE 4 MANUAL) ELEVATIONS, LEGEND

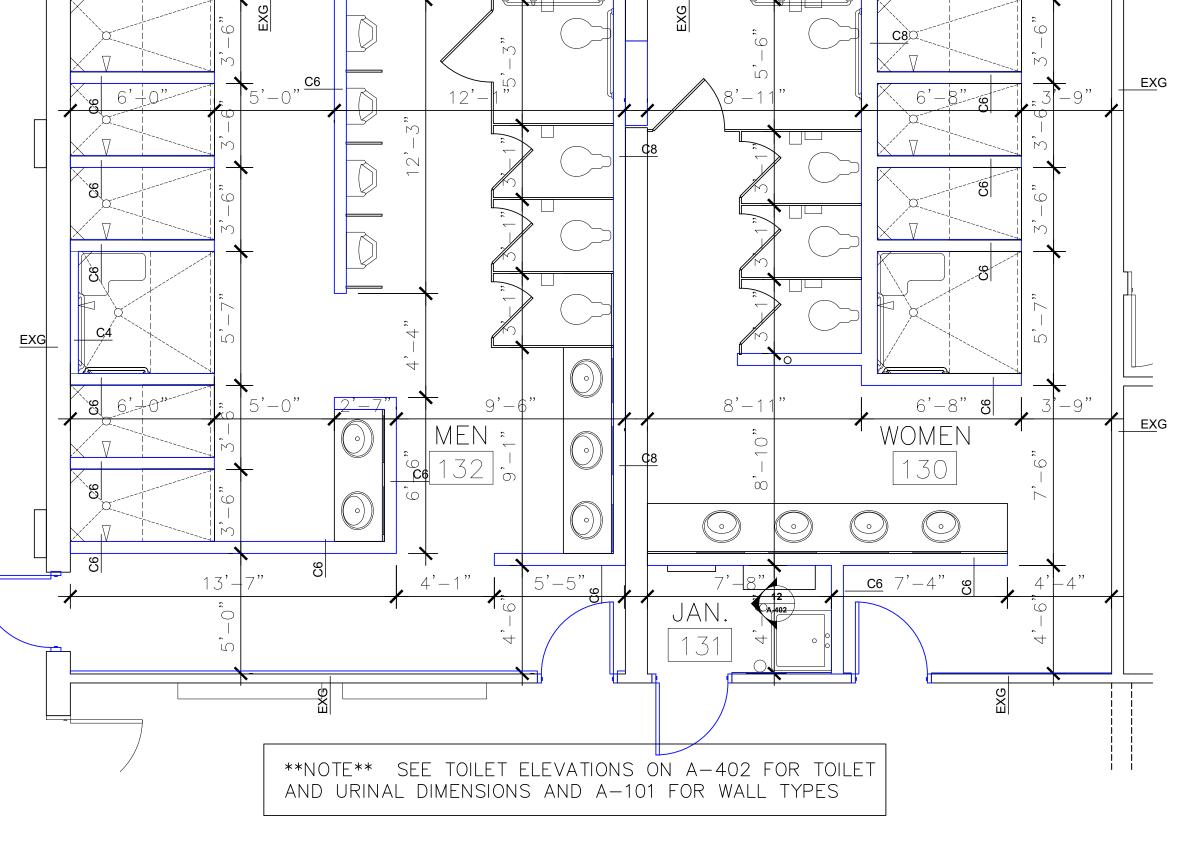
ACCESSORY GENERAL NOTES

PHENOLIC OVERHEAD BRACED TOILET PARTITIONS WITH GAP FREE PRIVACY DOORS AND STYLES. THROUGH-BOLTED STAINLESS STEEL HARDWARE IN US32D FINISH. REFER TO FINISH SCHEDULE. ACCESSIBLE STALL DOORS TO BE 32" MINIMUM CLEAR WIDTH PER ADA/ANSI STANDARDS AND NON-ACCESSIBLE STALL DOORS TO BE 24" MINIMUM CLEAR WIDTH

- SHOWER CURTAIN & RINGS TO BE FURNISHED AND INSTALLED BY OWNER.
- PROVIDE LENGTH REQUIRED FOR UNIT. 4. PHENOLIC URINAL SCREEN TO MATCH OTHER PARTITIONS

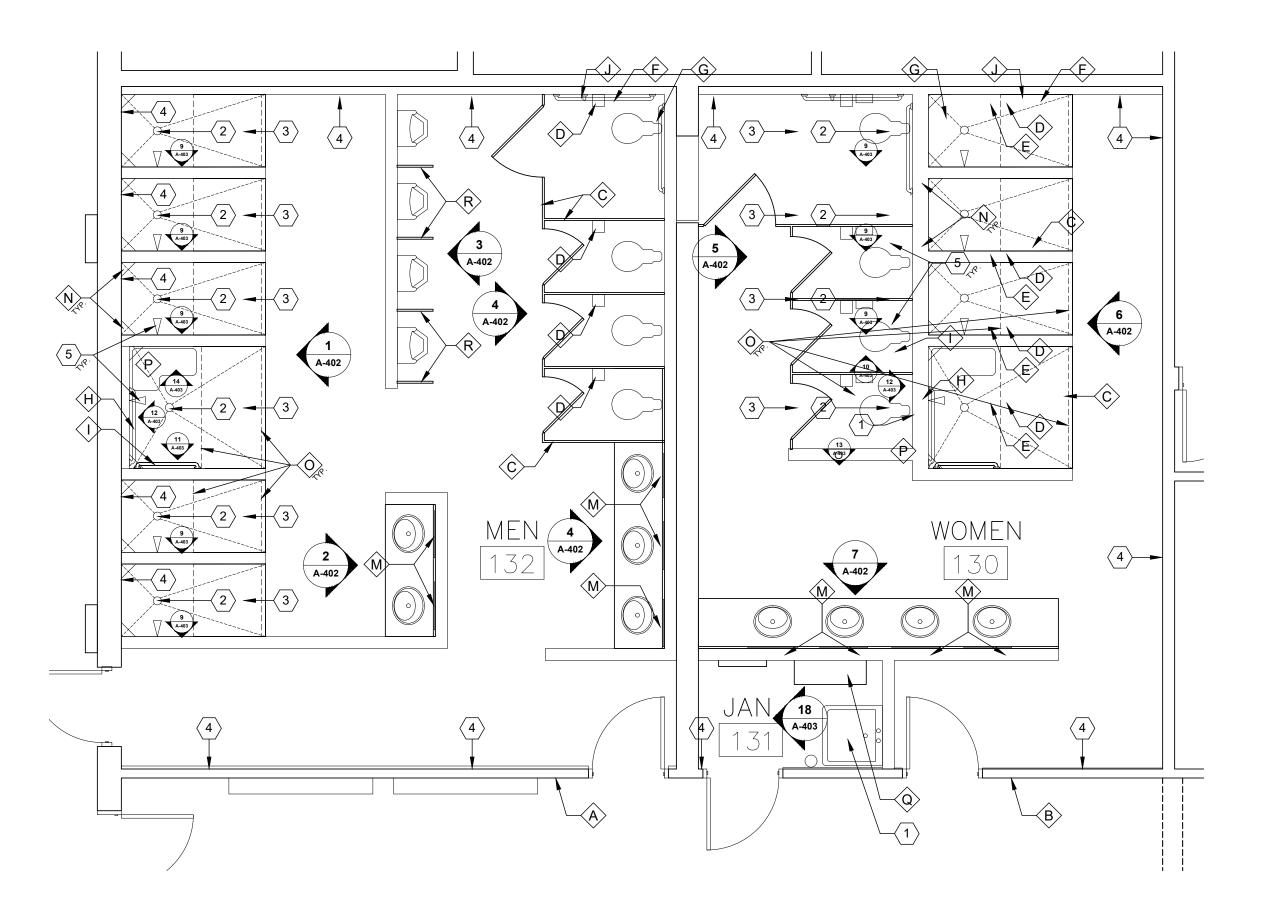
ACCESSORY MOUNTING LEGEND





ENLARGED LATRINE DIMENSION PLAN

A-401 1/4" = 1'-0" - SEE A-101 FOR WALL TYPES

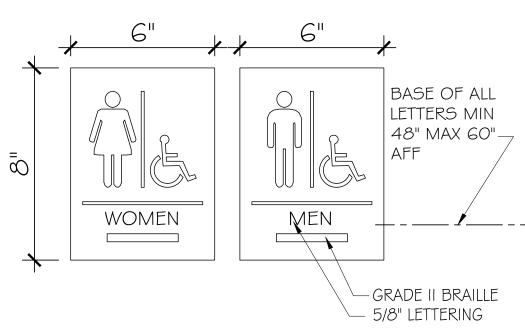


2 ENLARGED LATRINE REFERENCE PLAN

A-401 1/4" = 1'-0" - SEE SCHEDULE, DETAILS, AND SPECIFICATIONS FOR MORE INFORMATION

KEY NOTES

- \langle 1 \rangle JANITOR'S SINK, REFER TO PLUMBING DRAWINGS.
- (2) FLOOR DRAIN, REFER TO DETAIL 2/A-501 AND PLUMBING DRAWINGS.
- RECESSED SHOWER FLOOR SLOPE CONCRETE 1/4":12" MAXIMUM TO DRAIN. BACK OF SHOWER WILL BE LOWER THAN STANDARD FLOOR HEIGHT; NEW CMU PARTITIONS WILL EXTEND BELOW THE
- $\overline{\langle}_4\rangle$ PREPARE EXISTING GLAZED TILE TO RECEIVE NEW FINISHES. $^\prime$ DEGLOSS WITH SANDPAPER AND TREAT WITH ETCHING PRIMER COMPATIBLE WITH FINISHED PAINT OR EPOXY FINISHES AS APPLICABLE.
- 5 SHOWER HEAD LOCATIONS (TYP. OF 10) ARE TO BE GOVERNED BY THE ARCHITECTURAL DETAILS AS INDICATED. P-SHEETS ARE DIAGRAMMATIC ONLY. ACCESSIBLE UNITS HAVE SHOWER HEADS ON THE BACK WALL OF THE SHOWER.

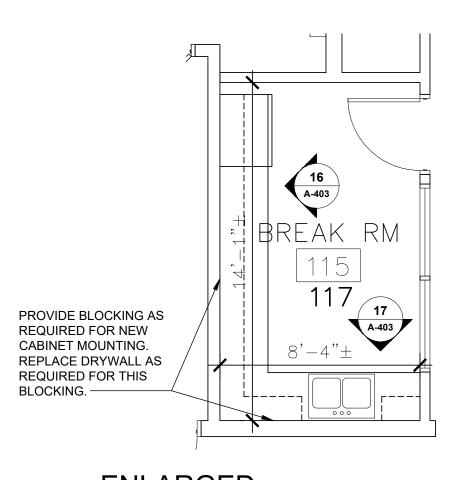


SIGNAGE DETAILS

A-401 No Scale

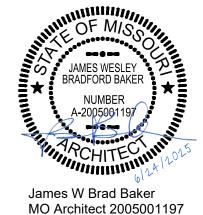
GENERAL NOTES

- $\overline{\langle \mathsf{A} \rangle}$ REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- $\langle \mathsf{B}
 angle$ ALL DIMENSIONS ARE TO FACE OF PARTITION , TOILET PARTITION PANEL, OR CENTERLINE OF FIXTURE UNLESS OTHERWISE
- $\langle C \rangle$ REFER TO PLUMBING PLANS FOR PLUMBING FIXTURE TYPES.
- \langle D \rangle REFER TO INTERIOR FINISH PLANS FOR MATERIALS AND FINISHES.
- $\langle E \rangle$ REFER TO FLOOR PLAN FOR WALL TYPES AND ASSEMBLIES.



ENLARGED BREAK ROOM PLAN A-401 1/4" = 1'-0"

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ROOF, TUCKPOINT REPAIR & INTERIOR RENOVATION ROLLA READINESS CENTER

ROLLA READINESS CENTER 201 FAIRGROUNDS ROAD ROLLA, MISOURI 65401

PROJECT # T2238-01 6297 8136297001 ASSET #

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 6-24-2025

CAD DWG FILE: T2238-01 6297 8136297001-A-401 DRAWN BY:

CHECKED BY: JB

SHEET TITLE:

ENLARGED TOILET PLAN, DETAILS

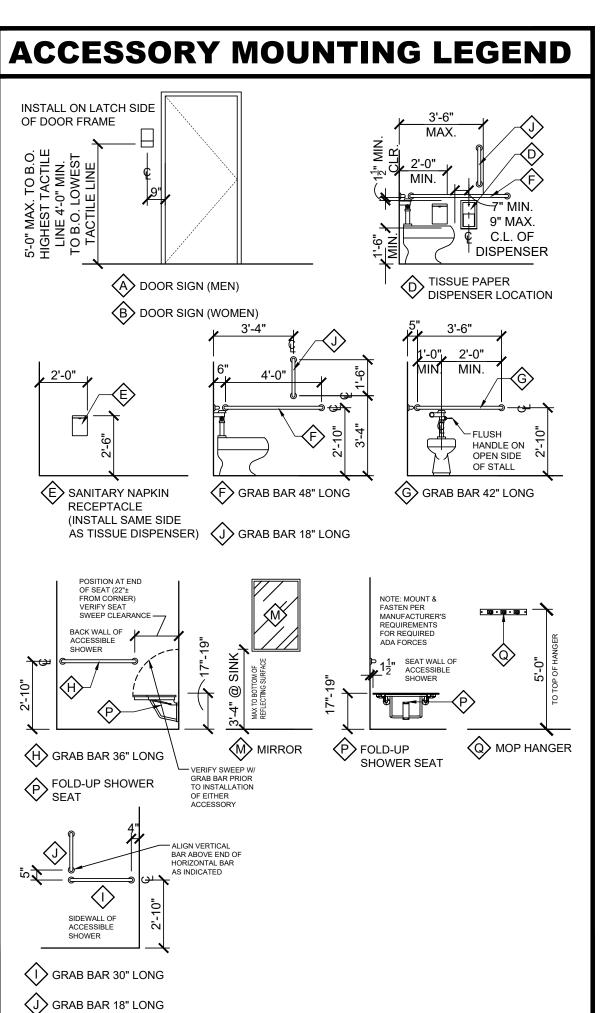
		ACCESS	ORY SCH	IEDULE	
MK	DESCRIPTION	MANUFACTURER	SERIES / MODEL	MOUNTING LOCATION	ACCESSORY NOTES
\Diamond	ACCESSIBLE R.R. SIGN (MEN)	(REFER TO PROJECT MANUAL)	(REFER TO PROJECT MANUAL)	REFER PLANS & DETAIL 4/A-401	
\bigotimes	ACCESSIBLE R.R. SIGN (WOMEN)	(REFER TO PROJECT MANUAL)	(REFER TO PROJECT MANUAL)	REFER PLANS & DETAIL 4/A-401	
\diamondsuit	TOILET PARTITIONS	(REFER TO PROJECT MANUAL)	(REFER TO PROJECT MANUAL)	REFER PLANS, ELEVATIONS, LEGEND	NOTE 1
\diamondsuit	TISSUE PAPER DISPENSER	(REFER TO PROJECT MANUAL)	DOUBLE ROLL, STACKED	REFER PLANS, ELEVATIONS, LEGEND	
(E)	SANITARY NAPKIN RECEPTACLE	(REFER TO PROJECT MANUAL)	(REFER TO PROJECT MANUAL)	REFER PLANS, ELEVATIONS, LEGEND	
⟨ F⟩	GRAB BAR	(REFER TO PROJECT MANUAL)	48" LENGTH	REFER PLANS, ELEVATIONS, LEGEND	
③	GRAB BAR	(REFER TO PROJECT MANUAL)	42" LENGTH	REFER PLANS, ELEVATIONS, LEGEND	
⟨ ± ⟩	GRAB BAR	(REFER TO PROJECT MANUAL)	36" LENGTH	REFER PLANS, ELEVATIONS, LEGEND	
\diamondsuit	GRAB BAR	(REFER TO PROJECT MANUAL)	30" LENGTH	REFER PLANS, ELEVATIONS, LEGEND	
\diamondsuit	GRAB BAR	(REFER TO PROJECT MANUAL)	18" LENGTH	REFER PLANS, ELEVATIONS, LEGEND	
⊗	ACCESSIBLE UNIT DOUBLE ROBE HOOK	(REFER TO PROJECT MANUAL)	(REFER TO PROJECT MANUAL)	48" MAX. A.F.F. TO CENTER	
\Diamond	DOUBLE ROBE HOOK	(REFER TO PROJECT MANUAL)	(REFER TO PROJECT MANUAL)	68" A.F.F. TO CENTER	2-PER SHOWER
⟨§ ⟩	MIRROR	(REFER TO PROJECT MANUAL)	24" W. x 36" H.	REFER PLANS, ELEVATIONS, LEGEND	1 PER LAVATORY
\$	STAINLESS CORNER SHOWER TRAY	(REFER TO PROJECT MANUAL)	(REFER TO PROJECT MANUAL)	48" MAX. A.F.F. TOP OF TRAY	2-PER SHOWER (ONE EACH SIDE)
\line{\phi}	SHOWER CURTAIN ROD	(REFER TO PROJECT MANUAL)	(REFER TO PROJECT MANUAL)	REFER TO DETAILS	NOTES 2 & 3
P	FOLD-UP SHOWER SEAT	(REFER TO PROJECT MANUAL)	(REFER TO PROJECT MANUAL)	REFER PLANS, ELEVATIONS, LEGEND	
	MOP HANGER	(REFER TO PROJECT MANUAL)	(REFER TO PROJECT MANUAL)	TOP OF SHELF 60" A.F.F.	
\bigcirc	URINAL SCREENS	(REFER TO PROJECT MANUAL)	(REFER TO PROJECT MANUAL)	REFER PLANS, ELEVATIONS, LEGEND	NOTE 4
ACC	CESSORY GENERAL NO				

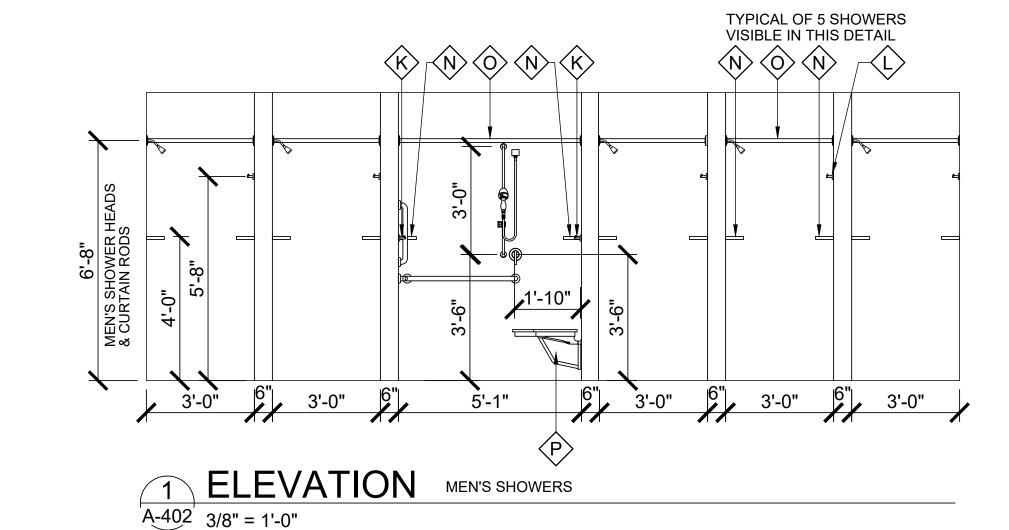
A-402 3/8" = 1'-0"

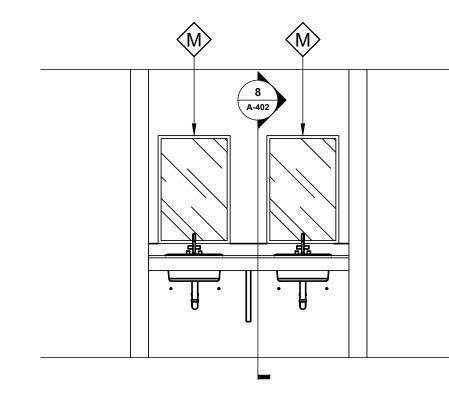
- ACCESSORY GENERAL NOTES:

 1. PHENOLIC OVERHEAD BRACED TOILET PARTITIONS WITH GAP FREE PRIVACY DOORS AND STYLES.

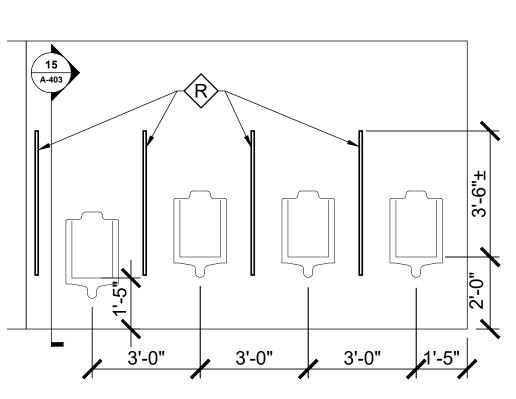
 THROUGH-BOLTED STAINLESS STEEL HARDWARE IN US32D FINISH. REFER TO FINISH SCHEDULE. ACCESSIBLE STALL DOORS TO BE 32" MINIMUM CLEAR WIDTH PER ADA/ANSI STANDARDS AND NON-ACCESSIBLE STALL
- DOORS TO BE 24" MINIMUM CLEAR WIDTH.
- SHOWER CURTAIN & RINGS TO BE FURNISHED AND INSTALLED BY OWNER.
- 3. PROVIDE LENGTH REQUIRED FOR UNIT.4. PHENOLIC URINAL SCREEN TO MATCH OTHER PARTITIONS

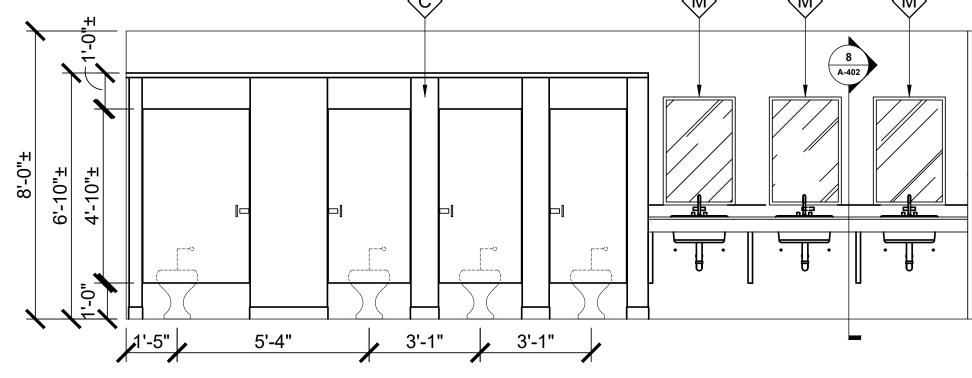






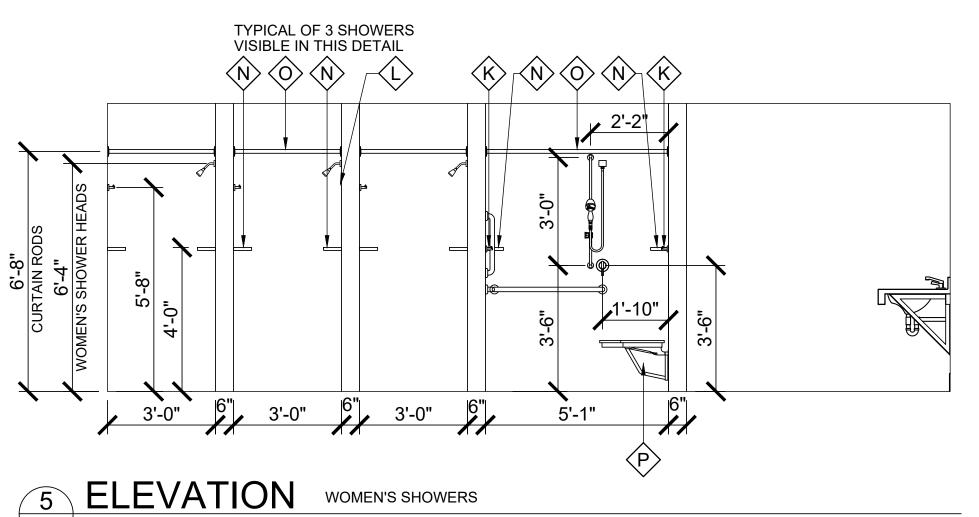
2 ELEVATION MEN'S LAV'S A-402 3/8" = 1'-0"

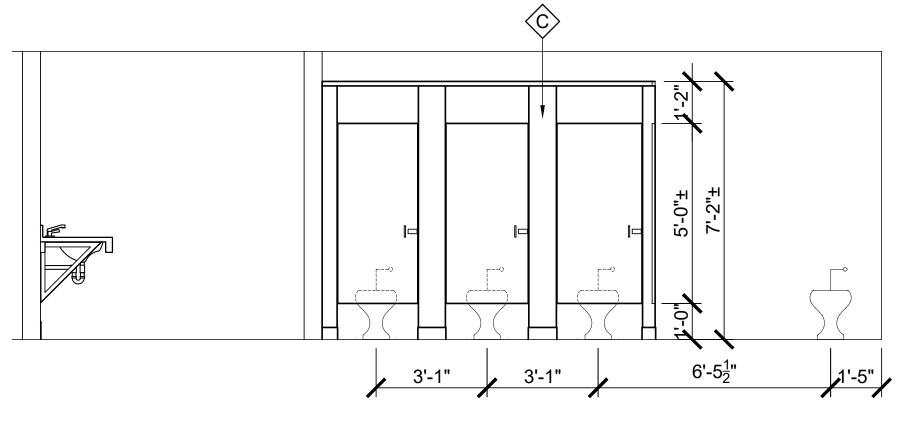


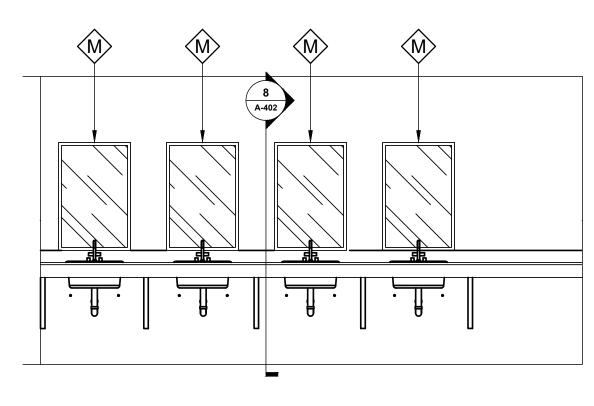


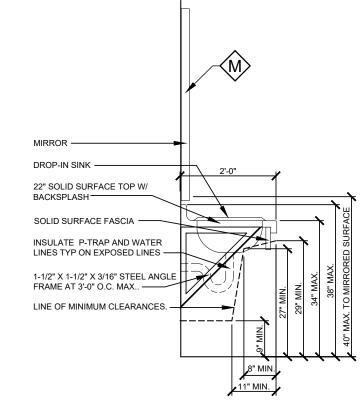
3 ELEVATION MEN'S URINALS A-402 3/8" = 1'-0"

4 ELEVATION MEN'S TOILETS / LAV'S A-402 3/8" = 1'-0"







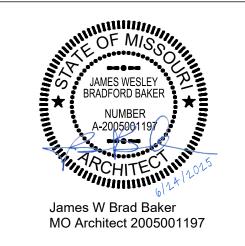


ELEVATION WOMEN'S TOILETS A-402 3/8" = 1'-0"

ELEVATION WOMEN'S LAVATORIES A-402 3/8" = 1'-0"

8 SECTION A-402 1/2" = 1'-0"

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**





OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

MISSOURI NATIONAL GUARD DEPT. OF ADJUTANT GENERAL

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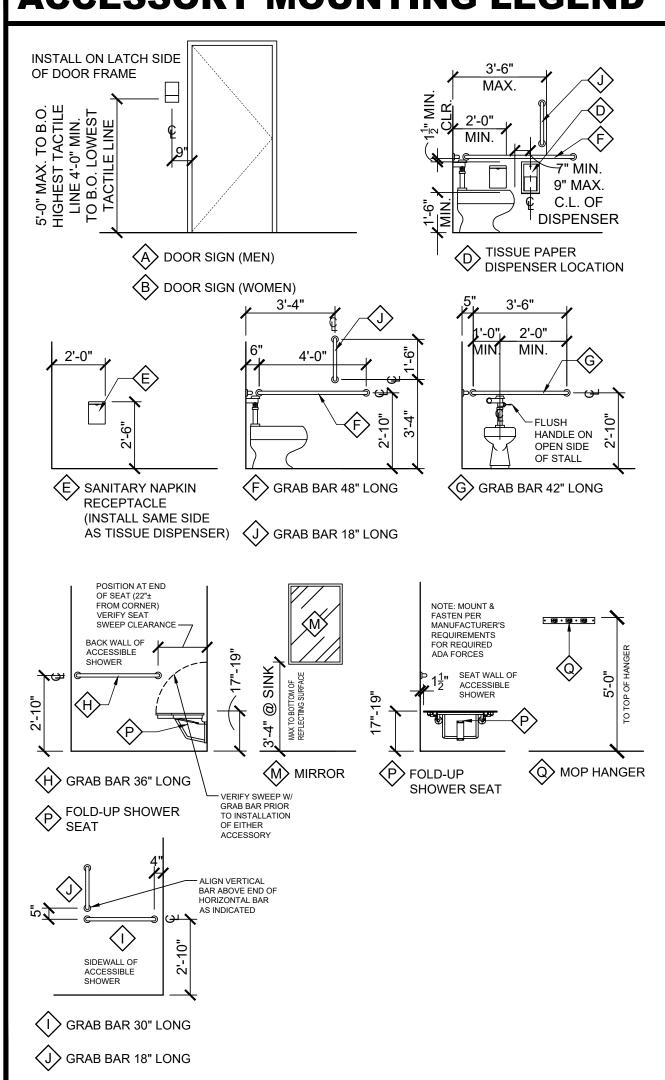
ACCESSORY SCHEDULE MOUNTING LOCATION ACCESSORY NOTES MK DESCRIPTION **MANUFACTURER** SERIES / MODEL (REFER TO PROJECT ACCESSIBLE R.R. (REFER TO PROJECT **REFER PLANS &** SIGN (MEN) MANUAL) MANUAL) DETAIL 4/A-401 (REFER TO PROJECT ACCESSIBLE R.R. (REFER TO PROJECT **REFER PLANS &** SIGN (WOMEN) MANUAL) MANUAL) DETAIL 4/A-401 (REFER TO PROJECT REFER PLANS, (REFER TO PROJEC **TOILET PARTITIONS** ELEVATIONS, LEGEND MANUAL) (REFER TO PROJECT REFER PLANS, TISSUE PAPER DOUBLE ROLL, DISPENSER MANUAL) STACKED **ELEVATIONS, LEGEND** REFER TO PROJEC SANITARY NAPKIN (REFER TO PROJECT REFER PLANS, RECEPTACLE MANUAL) MANUAL) ELEVATIONS, LEGEND (REFER TO PROJEC GRAB BAR 48" LENGTH ELEVATIONS, LEGEND MANUAL) (REFER TO PROJEC REFER PLANS, 42" LENGTH **GRAB BAR** MANUAL) ELEVATIONS, LEGEND (REFER TO PROJEC^{*} REFER PLANS, GRAB BAR 36" LENGTH MANUAL) ELEVATIONS, LEGEND (REFER TO PROJEC REFER PLANS, GRAB BAR 30" LENGTH MANUAL) ELEVATIONS, LEGEND (REFER TO PROJEC REFER PLANS, 18" LENGTH **GRAB BAR** ELEVATIONS, LEGEND MANUAL) ACCESSIBLE UNIT (REFER TO PROJECT (REFER TO PROJEC 48" MAX. A.F.F. TO DOUBLE ROBE HOOK CENTER MANUAL) MANUAL) (REFER TO PROJECT REFER TO PROJEC <L> | DOUBLE ROBE HOOK | 68" A.F.F. TO CENTER 2-PER SHOWER MANUAL) MANUAL) (REFER TO PROJECT REFER PLANS, MIRROR 1 PER LAVATORY 24" W. x 36" H. ELEVATIONS, LEGEND MANUAL) 2-PER SHOWER STAINLESS CORNER (REFER TO PROJECT (REFER TO PROJECT 48" MAX. A.F.F. TOP OF (ONE EACH SIDE) SHOWER TRAY MANUAL) MANUAL) SHOWER CURTAIN (REFER TO PROJECT (REFER TO PROJEC REFER TO DETAILS NOTES 2 & 3 ROD MANUAL) MANUAL) **FOLD-UP SHOWER** REFER PLANS, (REFER TO PROJECT (REFER TO PROJEC ELEVATIONS, LEGEND SEAT MANUAL) MANUAL) TOP OF SHELF 60" (REFER TO PROJECT (REFER TO PROJEC⁻ MOP HANGER A.F.F. MANUAL) MANUAL) (REFER TO PROJECT REFER PLANS, (REFER TO PROJECT **URINAL SCREENS** NOTE 4 MANUAL) ELEVATIONS, LEGEND MANUAL)

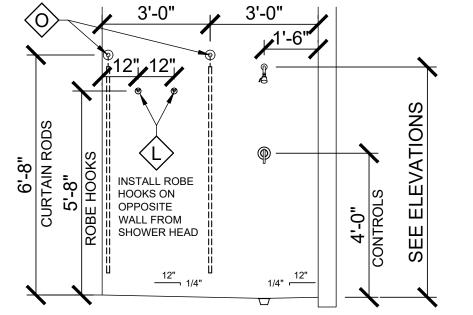
ACCESSORY GENERAL NOTES

PHENOLIC OVERHEAD BRACED TOILET PARTITIONS WITH GAP FREE PRIVACY DOORS AND STYLES THROUGH-BOLTED STAINLESS STEEL HARDWARE IN US32D FINISH. REFER TO FINISH SCHEDULE. ACCESSIBLE STALL DOORS TO BE 32" MINIMUM CLEAR WIDTH PER ADA/ANSI STANDARDS AND NON-ACCESSIBLE STALL DOORS TO BE 24" MINIMUM CLEAR WIDTH

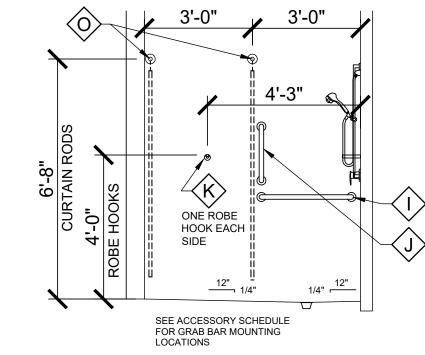
- SHOWER CURTAIN & RINGS TO BE FURNISHED AND INSTALLED BY OWNER.
- PROVIDE LENGTH REQUIRED FOR UNIT. 4. PHENOLIC URINAL SCREEN TO MATCH OTHER PARTITIONS

ACCESSORY MOUNTING LEGEND

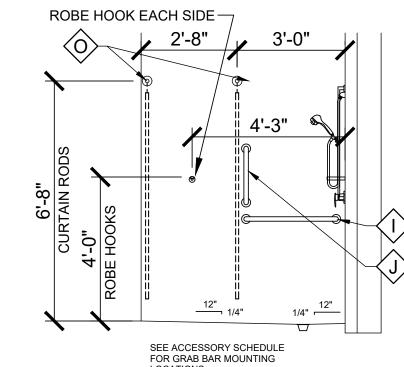






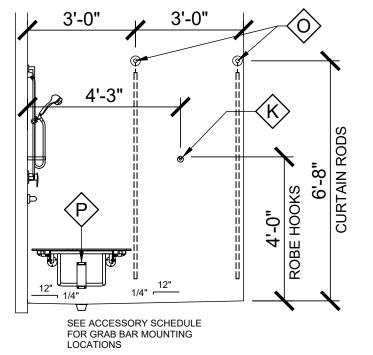




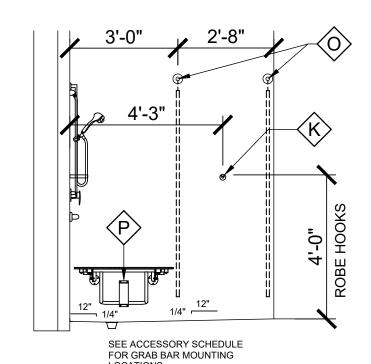




A-403 3/8" = 1'-0"





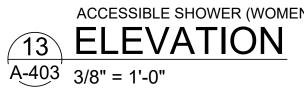


AESSIBLE SHOWER (MEN'S)

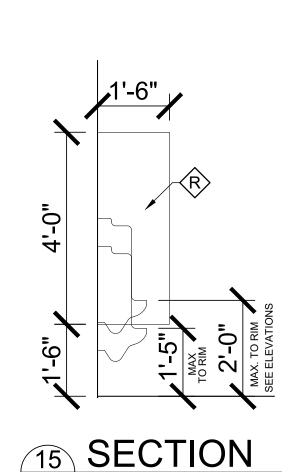
ACCESSIBLE SHOWER BACKWALL **ELEVATION** A-403 3/8" = 1'-0"

SEE ACCESSORY SCHEDULE

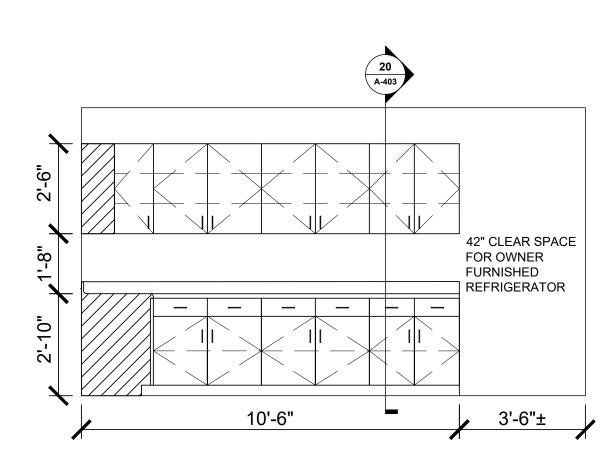
FOR GRAB BAR MOUNTING LOCATIONS



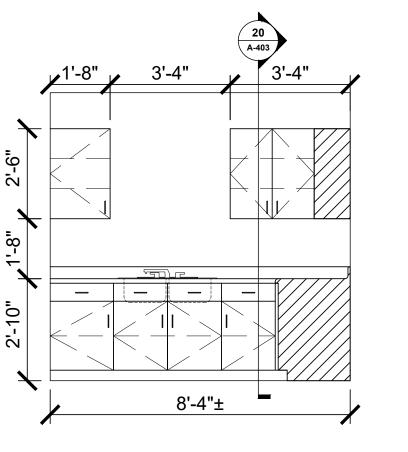




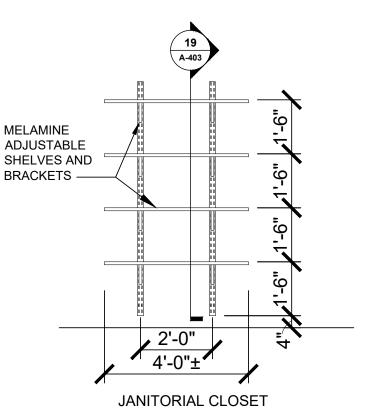
A-403 1/2" = 1'-0"



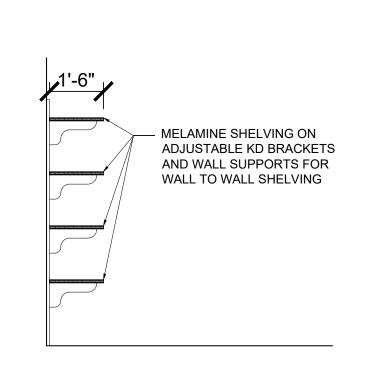




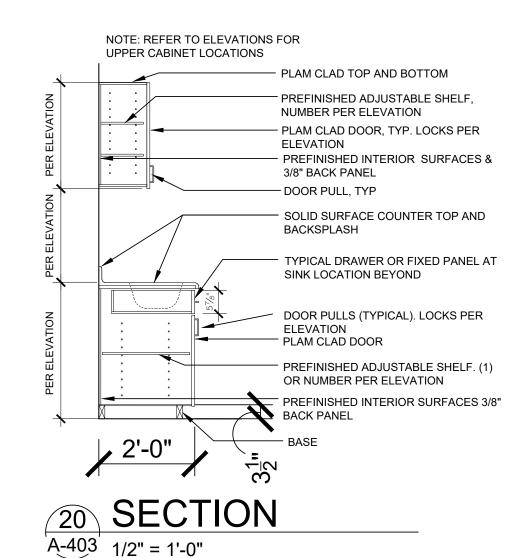




ELEVATION A-403 3/8" = 1'-0"



JANITORIAL CLOSET SECTION A-403 3/8" = 1'-0"



DATE: **REVISION**: DATE: ISSUE DATE: 6-24-2025 CAD DWG FILE: T2238-01 6297 8136297001-A-403 DRAWN BY: BB

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**

JAMES WEST

BRADFORD BAKE

James W Brad Baker

OFFICE OF

ADMINISTRATION

DIVISION OF FACILITIES

MISSOURI NATIONAL GUARD

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AND CONSTRUCTION

MO Architect 2005001197

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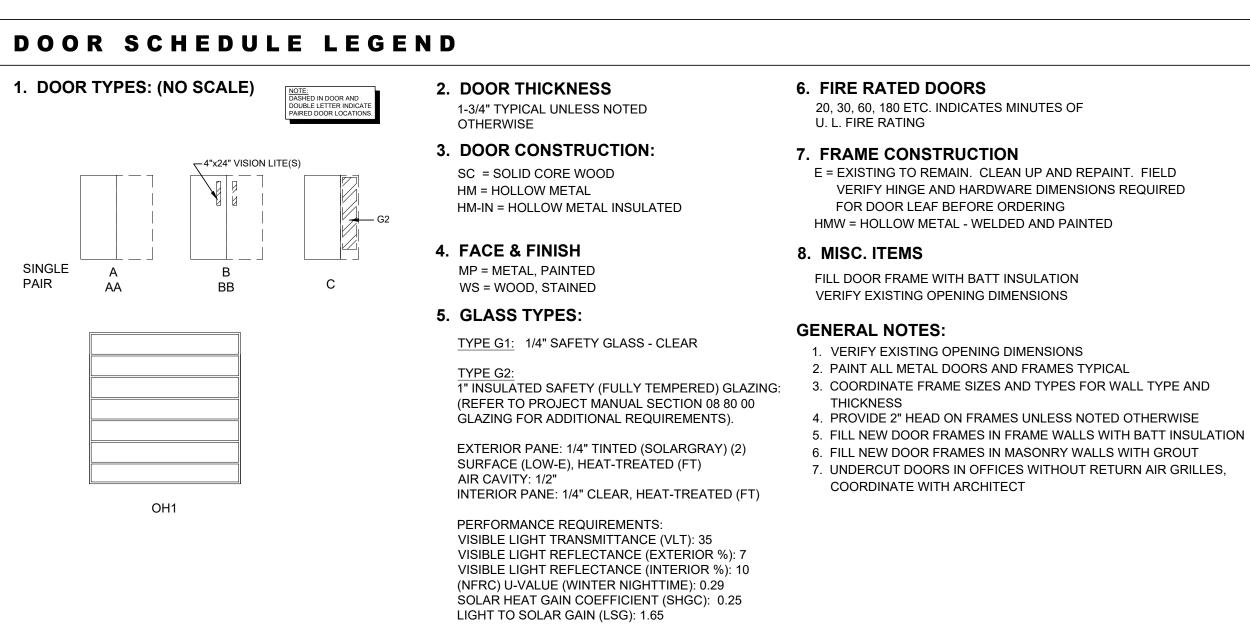
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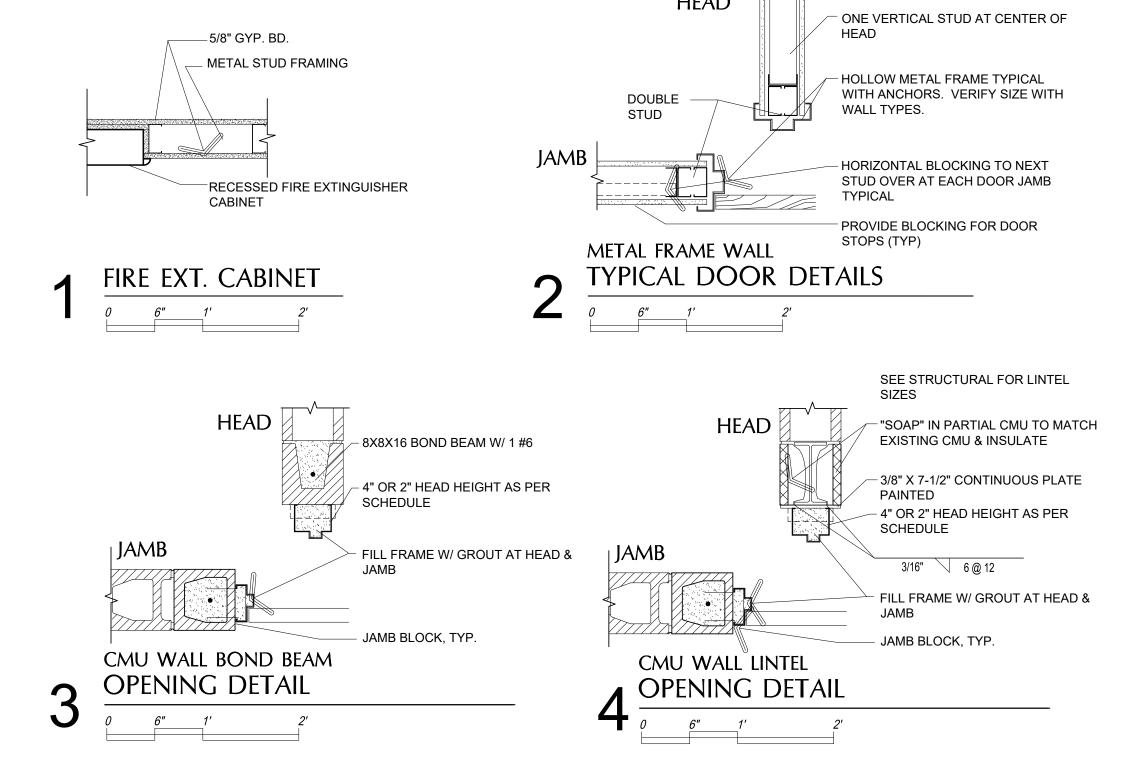
INTERIOR DETAILS

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FINISH HARDWARE LEGEND **LOCKSET / TRIM & FUNCTION EXIT DEVICES** PERIMETER SEALS L1 ENTRANCE E1 PANIC DEVICE ENTRANCE TRIM PS1 SMOKE/SOUND SEALS E2 PANIC DEVICE PASSAGE TRIM L2 OFFICE PS2 INTUMESCENT RATED SEALS L3 STOREROOM L4 PRIVACY **KICK PLATES DOOR STOPS** L5 PASSAGE PROVIDE ON PUSH SIDE 4" LESS THAN DOOR WIDTH S1 WALL STOP L6 OFFICE ALUMINUM DOOR TYPICAL UNLESS TWO PLATES ARE KEYED PROVIDE 2ND S2 FLOOR STOP PLATE ON PULL SIDE OF DOOR PROVIDE ON BOTH LEAFS S3 DOOR MOUNTED STOP (KICK DOWN) CYLINDER FOR PAIRS OF DOORS CY INTERCHANGEABLE CORES K1 10" HIGH STAINLESS STEEL, BOTH SIDES K2 30" HIGH STAINLESS STEEL, BOTH SIDES **DRIP EDGE PUSH / PULL** D1 HEAD MOUNTED DRIP EDGE P1 PUSH PLATE **FLUSH BOLTS** P2 PULL HANDLE HARDWARE NOTES: AS KEYED ON SCHEDULE TO RIGHT FB1 HEAD AND SILL MANUAL BOLTS ON INACTIVE DOOR, NOTE1 = FOR PAIRS OF DOORS PROVIDE HARDWARE AS ASTRAGAL ON ACTIVE DOOR NOTED FOR BOTH LEAVES (EXCEPT FLUSH BOLTS, FB2 HEAD AND SILL MANUAL BOLTS ON INACTIVE DOOR BY ALUMINUM DOOR SUPPLIER H2 HEAVY DUTY H3 NON-REMOVABLE PINS - EXTERIOR NOTE2 = WITH SIDE LITE TO FILL REMAINING OPENING, APPROX 24" WIDE. CONTRACTOR TO FIELD VERIFY **WEATHER STRIPPING / ASTRAGAL** DIMENSIONS BEFORE SUBMITTING SHOP W1 HEAD JAMB & SWEEP **CLOSERS** DRAWINGS. C1 TYPE 2 CLOSER - HEAVY DUTY HEAD HEAD __5/8" GYP. BD.



DOOR SCHEDULE FINISH HARDWARE SCHEDULE FACE & FII SEE NOTE 4 100A 3'-0" X 7'-0" X 1 3/4" (PAIR) EXISTING STOREFRONT DOOR SYSTEM AND HARDWARE TO REMAIN UNCHANGED 3'-0" X 7'-0" X 1 3/4" (PAIR) BB HM MP PS1 S1 NOTE1 102A 3'-0" X 7'-0" X 1 3/4" B SC WS L2 CY 103A 3'-0" X 7'-0" X 1 3/4" B SC WS L2 CY S1 104A 3'-0" X 7'-0" X 1 3/4" B SC WS Ε L2 CY H2 S1 105A 3'-0" X 7'-0" X 1 3/4" B SC WS L2 CY S1 105B B SC WS 3'-0" X 7'-0" X 1 3/4" L2 CY A SC WS 106A 3'-0" X 7'-0" X 1 3/4" L5 K1 S1 106B 3'-4" X 7'-0" X 1 3/4" A HM-IN MP HMW H3 C1 K1 W1 L1 CY D1 107A 3'-4" X 7'-0" X 1 3/4" A | HM | MP HMW 109A 3'-4" X 7'-0" X 1 3/4" A HM MP L3 CY 110A 3'-4" X 7'-0" X 1 3/4" A | HM | MP L3 CY S1 111A 3'-4" X 7'-0" X 1 3/4" HMW A | HM-IN | MP L2 CY H2 C1 K1 S3 111B 3'-4" X 7'-0" X 1 3/4" A HM-IN MP HMW L2 CY K1 S3 A HM MP 112A 3'-0" X 7'-0" X 1 3/4" L3 CY PS1 S1 113A 3'-0" X 7'-0" X 1 3/4" (PAIR) BB HM MP HMW L2 CY K1 FB1 114A 3'-0" X 7'-0" X 1 3/4" A SC WS L3 CY H2 S1 115A 3'-0" X 7'-0" X 1 3/4" A SC WS L5 B SC WS 116A 3'-0" X 7'-0" X 1 3/4" L2 CY 117A 3'-0" X 7'-0" X 1 3/4" B SC WS L2 CY H2 3'-0" X 7'-0" X 1 3/4" 118A HMW W1 C | HM-IN | MP L1 CY H3 C1 119A 3'-0" X 7'-0" X 1 3/4" B SC WS L2 CY B SC WS 120A 3'-0" X 7'-0" X 1 3/4" L2 CY 121A 3'-0" X 7'-0" X 1 3/4" B SC WS L2 CY S1 3'-0" X 7'-0" X 1 3/4" 122A B | SC | WS H2 L2 CY S1 123A 3'-0" X 7'-0" X 1 3/4" A SC WS S1 L3 CY 125A 3'-0" X 7'-0" AND HARDWARE TO REMAIN UNCHANGED EXISTING DOOR, FRAME 127A 3'-0" X 7'-0" X 1 3/4' A SC WS L3 CY S1 128A 3'-0" X 7'-0" X 1 3/4" A SC WS L3 CY H2 S1 Ε 3'-0" X 7'-0" X 1 3/4" 129A A SC WS 3'-0" X 7'-0" X 1 3/4" A SC WS 130A HMW S1 3'-0" X 7'-0" X 1 3/4" A SC WS HMW H2 C1 3'-0" X 7'-0" X 1 3/4" HMW 132A A SC WS H2 C1 K1 P1 | P2 3'-0" X 7'-0" X 1 3/4" (PAIR) HMW 133B 3'-8" X 7'-0" X 1 3/4" HMW A | HM-IN | MP 3'-0" X 7'-0" X 1 3/4" (PAIR) | AA | HM | MP Ε L3 CY S1 136A 3'-0" X 7'-0" X 1 3/4" B HM MP HMW L2 CY S3 | H2 | C1 | | K1 | 137A 3'-0" X 6'-8" EXISTING DOOR AND FRAME TO REMAIN. CHANGE HARDWARE AND PAINT FRAME 139A 3'-0" X 6'-8" EXISTING DOOR AND FRAME TO REMAIN. CHANGE HARDWARE AND PAINT FRAME 140A 3'-0" X 7'-0" X 1 3/4' C HM-IN MP 3'-0" X 7'-0" X 1 3/4" CY H3 C1 E1 W1 3'-0" X 7'-0" X 1 3/4" A HM-IN MP HMW 141A L2 CY H2 | C1 | K1 S1 HMW 142A 3'-0" X 7'-0" X 1 3/4" A | HM | MP L2 CY H2 S1 DOOR PART OF SECURITY CAGE SYSTEM, SEE CAGE SYSTEM DETAILS & SPECS 143A 3'-0" X 7'-0" 144A 3'-0" X 7'-0" DOOR PART OF SECURITY CAGE SYSTEM, SEE CAGE SYSTEM DETAILS & SPECS 146A 3'-0" X 7'-0" X 1 3/4" H2 C1 A HM-IN MP L2 CY K1 S2 147A 3'-0" X 7'-0" X 1 3/4" A | HM | MP L3 CY 148A 3'-0" X 7'-0" X 1 3/4" A HM MP L3 CY 3'-0" X 7'-0" X 1 3/4" (PAIR) BB HM-IN MP HMW L2 CY K1 FB1 H2 C1 150A 3'-0" X 6'-8" X 1 3/4" A SC WS L2 CY H2 S1 151A 3'-0" X 6'-8" X 1 3/4" B SC WS L3 CY S1 151B 3'-0" X 7'-0" EXISTING DOOR, FRAME, AND HARDWARE TO REMAIN UNCHANGED 152A | 2'-6" X 7'-0" X 1 3/4" (PAIR) | AA | HM-IN | MP L3 CY H2 FB1 S1 NOTE1 A HM MP 152B 3'-0" X 7'-0" X 1 3/4" L3 CY S1 3'-0" X 7'-0" X 1 3/4" A HM-IN MP L2 CY 200A 3'-0" X 7'-0" X 1 3/4" H2 A HM MP S1 L3 CY OH1 SEE SPECIFICATION SECTION 083613 FOR ADDITIONAL INFORMATION OHD 16'-0" X 14'-0"

GENERAL NOTES

GENERAL HARDWARE NOTES: (NOT REFERENCED ON SCHEDULE ABOVE)

1. ALL HARDWARE TO BE ADA AND ANSI A117.1 COMPLIANT. CLOSURE SPEEDS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO AN OPEN POSITION OF 12 DEGREES SHALL BE 5 SECONDS MINIMUM. DOOR OPENING FORCE FOR PUSHING OR PULLING OPEN DOORS, OTHER THAN FIRE DOORS, SHALL BE AS FOLLOWS:

- INTERIOR HINGED DOORS: 5.0 POUNDS MAXIMUM.

2. VERIFY COMPATIBILITY OF HARDWARE SPECIFIED. NOTIFY ARCHITECT

OF INCOMPATIBILITY ISSUES PRIOR TO ORDERING AND INSTALLATION.

3. ALL HARDWARE TO BE GRADE 1 (HEAVY DUTY COMMERCIAL).

4. ALL KEYED HARDWARE TO BE SINGLE SOURCED (BEST, 7 PINS SYSTEM). CONTRACTOR TO PROVIDE ALL HARDWARE, INCLUDING CORES AND BLANK KEYS. DELIVER CORES TO THE GUARD WHICH WILL KEYTM AND RETURN TO THE CONTRACTOR FOR INSTALLATION. PROVIDE TEMPORARY CORES FOR EXTERIOR DOORS DURING CONSTRUCTION. COORDINATE ORDERING AND DELIVERY REQUIREMENTS WITH OWNER'S REPRESENTATIVE:

MISSOURI NATIONAL GUARD ATTN: BILL EDWARDS MOARNG CFMO-Project Manager 6819A North Boundary Road Jefferson City, MO. 65101 EMAIL: billy.j.edwards66.nfg@army.mil Office: 573-638-9534 Cell: 573-578-2612

5. FILL HOLLOW METAL FRAMES WITH BATT INSULATION IN FRAME WALLS.

6. FILL HOLLOW METAL FRAMES WITH GROUT IN MASONRY WALLS.

7. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.

8. REFER TO EXTERIOR FINISH SCHEDULE AND INTERIOR FINISH PLAN FOR ADDITIONAL REQUIREMENTS.

GLAZING SCHEDULE

ALSO APPLIES TO WINDOW SCHEDULE ON A-202

TYPE G1: 1/4" SAFETY GLASS - CLEAR

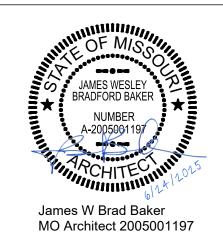
1" INSULATED SAFETY (FULLY TEMPERED) GLAZING: (REFER TO PROJECT MANUAL SECTION 08 80 00 GLAZING FOR ADDITIONAL REQUIREMENTS).

EXTERIOR PANE: 1/4" TINTED (SOLARGRAY) (2) SURFACE (LOW-E), HEAT-TREATED (FT) AIR CAVITY: 1/2"

INTERIOR PANE: 1/4" CLEAR, HEAT-TREATED (FT)

PERFORMANCE REQUIREMENTS:
VISIBLE LIGHT TRANSMITTANCE (VLT): 35
VISIBLE LIGHT REFLECTANCE (EXTERIOR %): 7
VISIBLE LIGHT REFLECTANCE (INTERIOR %): 10
(NFRC) U-VALUE (WINTER NIGHTTIME): 0.29
SOLAR HEAT GAIN COEFFICIENT (SHGC): 0.25
LIGHT TO SOLAR GAIN (LSG): 1.65

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR





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ROLLA READINESS CENTER 201 FAIRGROUNDS ROAD ROLLA, MISOURI 65401

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CAD DWG FILE: T2238-01 6297 8136297001-A-601 DRAWN BY: **RB**

CHECKED BY: BEDC

SHEET TITLE:

DOOR SCHEDULE & DETAILS

SHEET NUMBER:

A-60

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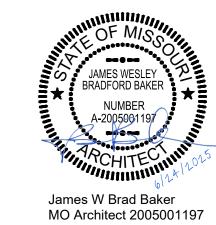
GENERAL NOTES

- THIS SHEET IS PROVIDED FOR GENERAL REFERENCE ONLY; THE FINAL SCOPE OF REQUIRED DEMOLITION OF FINISH ITEMS MUST BE COORDINATED WITH THE REQUIREMENTS OF ALL ARCHITECTURAL SHEETS, ESPECIALLY THE FLOOR PLAN AND FINISH PLANS.
- B REFER TO SHEET A-701 FOR NEW CEILING INFORMAITON AND A-702 FOR NEW FLOOR FINISH AND BASE LOCATIONS. ALTHOUGH EVERY EFFORT HAS BEEN MADE TO KEY THE REQUIRED FINISH DEMOLITION AREAS, THE CONTRACTOR SHALL REMOVE ALL EXISTING FINISHES WHEREVER NEW FINISHES ARE SCHEDULED ELSEWHERE IN THESE DRAWINGS, WHETHER OR NOT SPECIFICALLY INDICATED ON THIS SHEET.

KEYED DEMO NOTES

- REMOVE EXISTING SUSPENDED CEILING SYSTEM IN THIS ROOM.
 MAINTAIN ALL LIGHT FIXTURES AND HVAC/ELEC DEVICES FOR
 REINSTALLATION IN REPLACEMENT CEILING IN SAME LOCATIONS.
- REMOVE EXISTING GYPSUM BOARD CEILING AND SUPPORTS, HVAC DEVICES, AND LIGHT FIXTURES IN THIS ROOM, COMPLETE
- REMOVE SLAB AS REQUIRED FOR NEW RECESSED SHOWER FLOORS AND PLUMBING
- REMOVE SLAB AS REQUIRED FOR ALL NEW UNDER-SLAB PLUMBING CONNECTIONS. THE EXACT CONNECTION POINT FOR NEW UNDERSLAB PLUMBING IS NOT KNOWN. AT THE CONTRACTOR'S OPTION, THE COMPLETE SLAB MAY BE REMOVED IN THE LATRINE AREAS AND REPLACED AS PART OF THIS PROJECT. ANY SLAB AREAS NOT REMOVED WILL REQUIRE THE REMOVAL OF EXISTING MOSAIC TILE AND PREPARATION OF SURFACES TO RECEIVE NEW EPOXY FINISHES.
- REMOVE EXISTING VCT TILE AND BASE IN THIS ROOM, COMPLETE. PREPARE FLOOR TO RECEIVE NEW FINISHES.
- REMOVE EXISTING CARPET, VCT TILE, AND BASE IN THIS ROOM, COMPLETE. PREPARE FLOOR TO RECEIVE NEW FINISHES.
 CONTRACTOR MUST VERIFY THAT ANY PRODUCTS OR PROCESSES USED TO AID IN THE REMOVAL OF EXISTING FLOOR FINISHES AND ADHESIVES WILL NOT ADVERSELY AFFECT THE BONDING PERFORMANCE OF ANY NEW ADHESIVES FOR NEW FINISHES IN THE SAME AREAS. THE ARCHITECT RECOMMENDS OBTAINING A CERTIFICATION STATEMENT FROM THE SUPPLIER OF ANY STRIPPING PRODUCTS THAT THEY ARE COMPATIBLE WITH THE PROPOSED ADHESIVES FOR THE NEW FLOOR FINISHES.

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR





OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

MISSOURI NATIONAL GUARD DEPT. OF ADJUTANT GENERAL

ROOF, TUCKPOINT REPAIR & INTERIOR RENOVATION ROLLA READINESS CENTER

ROLLA READINESS CENTER 201 FAIRGROUNDS ROAD ROLLA, MISOURI 65401

PROJECT # T2238-01 SITE # 6297 ASSET # 8136297001

REVISION:
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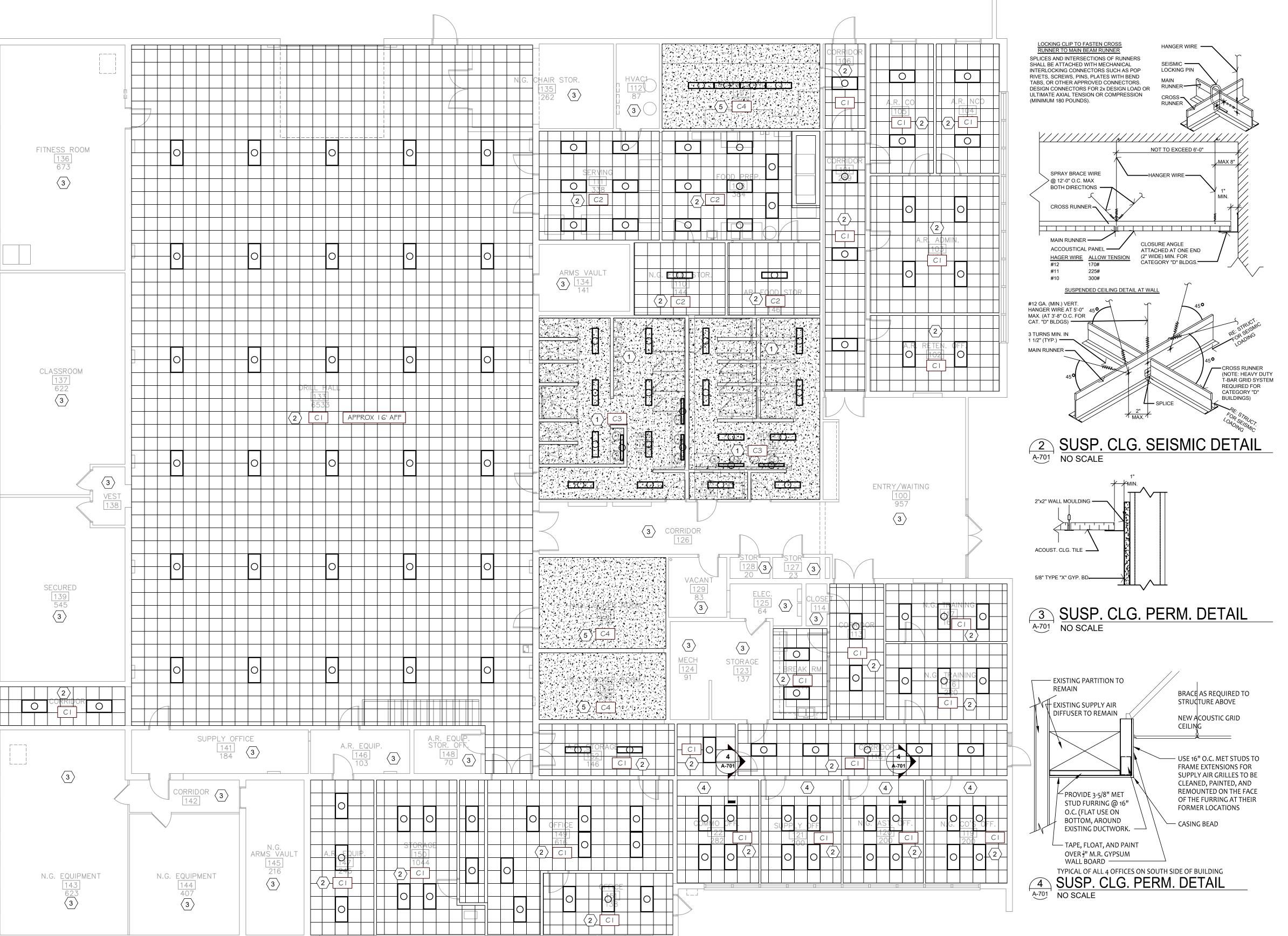
SHEET TITLE:

INTERIOR FINISH DEMO. PLAN

SHEET NUMBER:

A-700

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REFLECTED CEILING PLAN (CEILING TYPE AND LIGHTS ONLY)

A-701 1/8" = 1'-0" - SEE GENERAL NOTE "C" REGARDING HVAC DEVICES



GENERAL NOTES

- A REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- B REFER TO INTERIOR WALL AND CEILING GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
- C MECHANICAL REGISTERS ARE NOT SHOWN ON THIS DRAWING BUT ARE TO BE REINSTALLED IN THEIR ORIGINAL LOCATIONS AFTER INSTALLATION OF NEW CEILINGS. (SEE M-SHEETS FOR LATRINE HVAC DEVICES)
- D LIGHTING FIXTURES IN ALL AREAS EXCEPT THE LATRINES ARE EXISTING AND ARE TO BE RETAINED AND REINSTALLED IN THE NEW CEILINGS IN THEIR ORIGINAL LOCATIONS. SEE THE E-SHEETS FOR ADDITIONAL LATRINE LIGHTING INFORMATION.
- ALL NEW CEILING HEIGHTS ARE TO BE REPLACED AT THEIR EXISTING HEIGHTS (APPROXIMATELY 8') EXCEPT THE DRILL ROOM WHICH IS APPROXIMATELY 16'
- F PROVIDE SUSPENDED ACOUSTICAL CEILING TILE HOLD DOWN CLIPS AT AREAS SUBJECT TO UPLIFT. EXTEND 8'-0" MINIMUM INTO INTERIOR AT EXTERIOR DOOR LOCATIONS
- G INDICATED CEILING ELEVATIONS TO BOTTOM OF FRAMING AT GYPSUM BOARD CONSTRUCTION AND BOTTOM OF SUSPENDED ACOUSTICAL CEILING GRID CONSTRUCTION, UNLESS OTHERWISE NOTED.
- PROVIDE SUSPENDED CEILING SEISMIC BRACING, REFER TO DETAILS 2/A-701 AND 3/A-701.
- J ALL LIGHT FIXTURES TO BE INDEPENDENTLY SUPPORTED ABOVE GRID CEILINGS

KEY NOTES

- 5/8" GYPSUM BOARD ON SUSPENDED DRYWALL GRID.
 NEW CEILING HEIGHT 8'-4" AFF. (VERIFY WITH
 ARCHITECT AFTER DEMOLITION COMPLETE) NEW
 SURFACE MOUNTED LIGHTS, SEE E-SHEETS. PROVIDE
 R-19 BATT INSULATION ABOVE THE CEILINGS IN THIS
 AREA, CONTINUOUS.
- 2 REPLACEMENT SUSPENDED ACOUSTICAL CEILING SYSTEM. INSTALL AT EXISTING HEIGHT. REINSTALL EXISTING LIGHTS AND MECHANICAL DEVICES (SHOWN FOR GENERAL REFERENCE ONLY)
- $\langle 3 \rangle$ NO CEILING WORK
- $\overline{\langle 4 \rangle}$ NEW SOFFIT AROUND EXISTING DUCTWORK, SEE 4/A-701
- $\overline{\left\langle 5\right\rangle }$ EXISTING GYPSUM CEILING TO REMAIN, REPAINT

CEILINGS

TYPE: SUSPENDED ACOUSTICAL CEILING
MFG: ARMSTRONG OR EQUAL (BASIS FOR DESIGN)
STYLE: DUNE
ITEM NO.: 1774
SIZE: 24"X24"X5/8"
EDGE: ANGLED TEGULAR
COLOR: WHITE
GRID: ALUMINUM 15/16" EXPOSED TEE

COLOR: WHITE

TYPE: (WASHABLE) SUSPENDED ACOUSTICAL CEILING MFG: ARMSTRONG OR EQUAL (BASIS FOR DESIGN) STYLE: VINYL FACED SIZE: 24"X24"X5/8" EDGE: SQUARE COLOR: WHITE GRID: ALUMINUM 15/16" EXPOSED TEE

COLOR: WHITE

TYPE: GYPSUM BOARD ON SUSPENDED GRID (MOISTURE AND MOLD RESISTANT GYP BD.)

TEXTURE: LEVEL 5 SMOOTH DRYWALL SURFACE FINISH: PAINT MFG: SHERWIN WILLIAMS OR EQ. (BASIS FOR DESIGN) COLOR: SW 7029 (AGREEABLE GRAY) (MOLD AND MILDEW RESISTANT)

SHEEN: SEMI-GLOSS

FINISH: UNFINISHED

TYPE: REPAINT EXISTING GYPSUM BOARD CEILING
TEXTURE: LEVEL 5 SMOOTH DRYWALL SURFACE
FINISH: PAINT
MFG: SHERWIN WILLIAMS OR EQ. (BASIS FOR DESIGN)
COLOR: SW 7029 (AGREEABLE GRAY) (MOLD AND MILDEW

EXPOSED STRUCTURE

COLOR: SW 7029 (AGREEABLE GRAY) (MOLD A RESISTANT)

SHEEN: SEMI-GLOSS

TYPE: EXPOSED STRUCTURE

FINISH: UNFINISHED

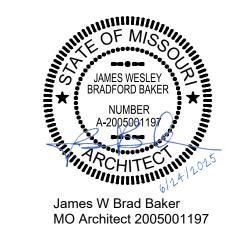
SYMBOLS LEGEND

LIGHT FIXTUR

CEILING TYPE: SEE LEGEND ABOVE

GYPSUM BOARD CEILING CONSTRUCTION

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR





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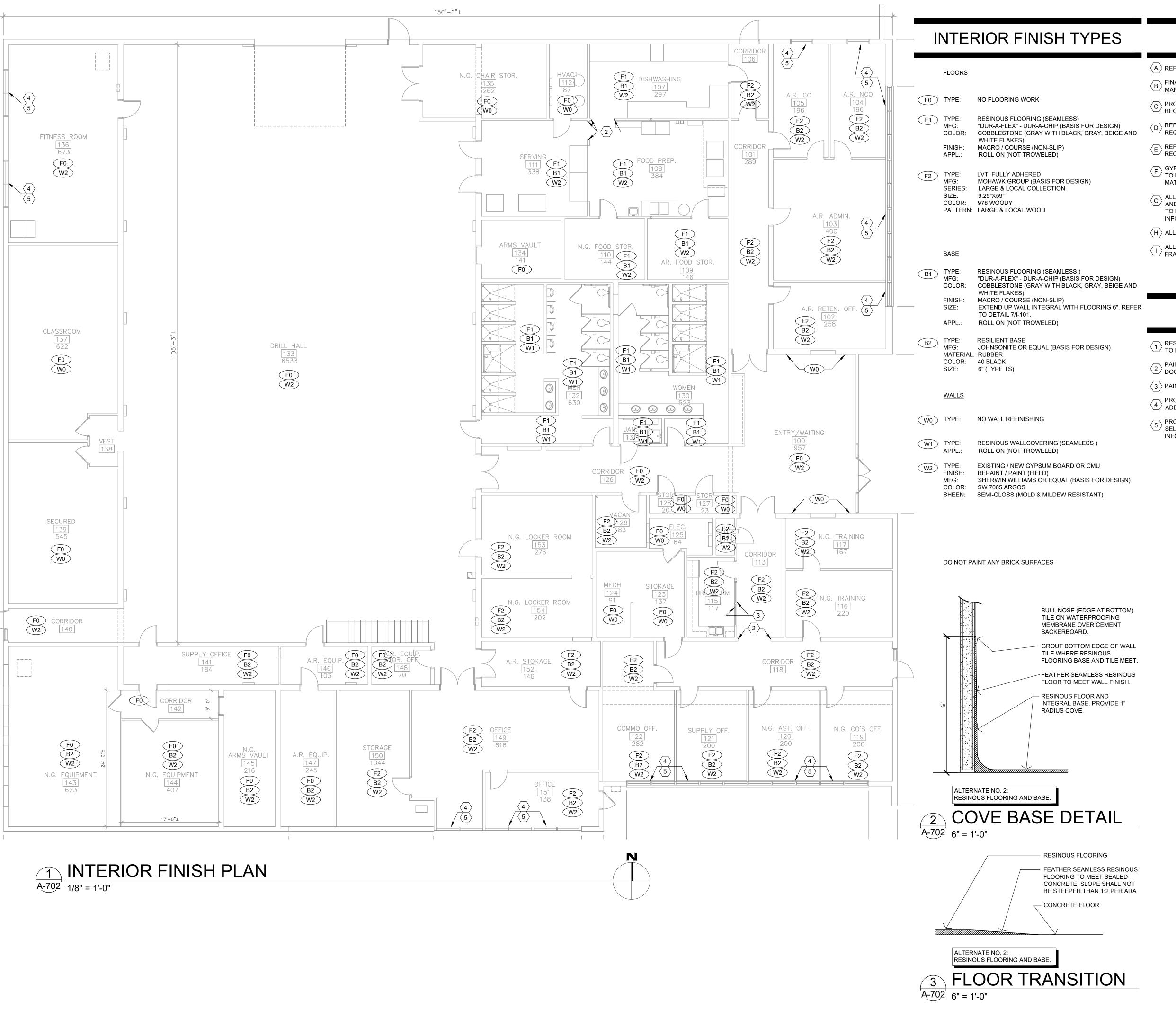
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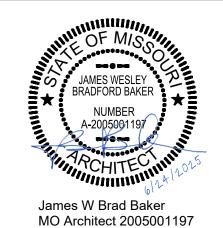
GENERAL NOTES

- $\overline{\langle A \rangle}$ REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- FINAL COLORS AND TEXTURES TO BE SELECTED BY OWNER FROM MANUFACTURER'S SPECIFIED SAMPLES.
- C PROVIDE FLOORING TRANSITIONS, REDUCERS AND EDGING AS
- REQUIRED FOR SPECIFIC CONDITIONS. COLOR TO MATCH BASE.
- $\stackrel{\textstyle \frown}{\text{D}}$ REFER TO ELEVATIONS, SECTIONS, AND DETAILS FOR ADDITIONAL REQUIREMENTS.
- E REFER TO REFLECTED CEILING PLAN FOR ADDITIONAL REQUIREMENTS.
- GYPSUM BOARD FINISH TEXTURE (WHERE PATCHING IS REQUIRED)
 TO BE SMOOTH FINISH ON "LEVEL 5" SURFACE WITH TEXTURES TO
 MATCH ADJACENT CONDITIONS.
- ALL INTERIOR METAL DOORS AND FRAMES TO BE PAINTED (NEW AND SCHEDULED TO REMAIN). NEW EXTERIOR DOORS AND FRAMES TO BE PAINTED. SEE DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
- $\langle \mathsf{H}
 angle$ ALL METAL SUPPORT BRACKETS FOR COUNTERS TO BE PAINTED.
- ALL PAINTED METAL DOOR FRAMES, DOOR, & INTERIOR WINDOW FRAMES TO BE SHERWIN WILLIAMS SW 7068 GRIZZLE GRAY

KEY NOTES

- RESIN FLOORING TO CONCRETE FLOOR FINISH TRANSITION, REFER TO DETAIL 3/A-702
- PAINT EXISTING METAL FRAME AT CASED OPENING (NOT PART OF DOOR SCHEDULE)
- 3 PAINT EXISTING HOLLOW METAL WINDOW FRAME
- PROVIDE SOLID SURFACE WINDOW SILL, SEE WINDOW DETAILS FOR ADDITIONAL INFORMATION.
- PROVIDE HEAVY DUTY HORIZONTAL WINDOW BLINDS, COLOR AS SELECTED BY ARCHITECT. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR





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INTERIOR FINISH PLAN

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A-702

PLUMBING SYMBOLS LEGEND

NOTE: ALL SYMBOLS MAY NOT APPEAR ON EVERY PLAN

--- BELOW GRADE WASTE PIPING ----- ABOVE GRADE WASTE PIPING —— SS — SANITARY SEWER PIPING

—BW— BUILDING WASTE AND DRAIN PIPING —XBW— EXISTING BUILDING WASTE AND DRAIN PIPING

——AW—— ACID WASTE PIPING ——CD—— CONDENSATE DRAIN PIPING

——GW—— GREASE WASTE PIPING ---OW--- OIL LADENT WASTE PIPING

——PW—— PUMPED WASTE PIPING —— SD — STORM DRAIN PIPING

——RD—— ROOF DRAIN PIPING —OD— OVERFLOW ROOF DRAIN PIPING

---- VENT PIPING

—— AV —— ACID VENT PIPING — FPM — FIRE SPRINKLER MAIN PIPING — - — COLD WATER SUPPLY PIPING

 HOT WATER SUPPLY PIPING HOT WATER RETURN PIPING

——DI — DEIONIZED COLD WATER SUPPLY PIPING

——G—— NATURAL GAS PIPING

—LPG— PROPANE GAS PIPING

——CA—— COMPRESSED AIR PIPING

——A—— MEDICAL COMPRESSED AIR PIPING ——O—— OXYGEN PIPING

——V—— VACUUM PIPING

——N—— NITROGEN GAS PIPING

——NO—— NITROUS OXIDE GAS PIPING PIPING DOWN (TEE DOWN TO ELBOW, ELBOW DOWN TO

TEE, ELBOW, TEE)

TEE (DOWN, SIDE, UP)

——

WATER HAMMER ARRESTOR (WHA)

——✓— VALVE

——N—— CHECK VALVE

ALL ABOVE GRADE STORM DRAIN PIPING.

AE. INSULATE ALL ABOVE GRADE CONDENSATE DRAIN PIPING WITH 1/2" ARMAFLEX INSULATION.

AF. PROVIDE INSULATION AT ALL EXPOSED HOT WATER

PER ANSI A117.1 AND ADA REQUIREMENTS.

ROUTED IN AREAS SUBJECT TO FREEZING TEMPERATURES SHALL BE ROUTED ON THE INTERIOR OF THE INSULATION AND WITHIN THE

HEATED ENVELOPE OF THE BUILDING. REFER TO THE ARCHITECTURAL DRAWINGS FOR INSULATION PLACEMENT AND DETAILS. UNLESS OTHERWISE INDICATED DO NOT ROUTE WATER PIPING IN EXTERIOR WALLS. WHEN ROUTED IN EXTERIOR

INSULATION. AH. ALL PIPE DROPS FROM CEILING PLENUM TO FLOOR SHALL BE MADE IN FURROUTS AT COLUMNS, IN WEB CIRCUIT SETTER CALIBRATED BALANCE VALVE — • AUTOMATIC FLOW CONTROL VALVE ——

GAS PLUG VALVE ——— GAS PRESSURE REGULATOR

HOSE BIBB BACKFLOW PREVENTER

REDUCED PRESSURE BACKFLOW PREVENTER

GAS METER WATER METER

NEW PLUMBING EQUIPMENT

EXISTING PLUMBING EQUIPMENT

DEMOLISHED PLUMBING EQUIPMENT NEW PLUMBING FIXTURE PROVIDED BY THE

CONTRACTOR **EXISTING PLUMBING FIXTURE**

DEMOLISHED PLUMBING FIXTURE CLEANOUT AT THE END OF PIPE

FINISH FLOOR CLEANOUT CLEANOUT TO (FINISH) GRADE (COTG)

TWO-WAY CLEANOUT TO (FINISH) GRADE (COTG) VENT THROUGH THE ROOF 3"V.T.R.

CONNECT TO THE EXISTING POINT OF DEMOLITION

PLUMBING GENERAL NOTES

COUPLED JOINTS.

PROPER FLOW.

INSTRUCTIONS.

OF CONSTRUCTION.

R. ALL VENT PIPING SHALL BE 2" UNLESS OTHERWISE

S. SLOPE 2-1/2" AND SMALLER BUILDING WASTE LINES

T. PROVIDE CLEAN OUTS IN ALL WASTE, SANITARY,

AT MINIMUM OF 1/4" FALL PER FT. AND 3" AND

LARGER SANITARY SEWER LINES AT MINIMUM 1/8"

FALL PER FT. VERIFY INVERTS WITH SITE UTILITY

PLANS AND COORDINATE INSTALLATION TO ASSURE

STORM DRAINAGE AND OVERFLOW LINES WHETHER

SHOWN OR NOT, AT INTERVALS NOT TO EXCEED 100

FEET, AT EACH CHANGE OF DIRECTION GREATER

THAN 45 DEGREES, AND ON ALL VERTICAL RISERS

AT HEIGHT OF 30" A.F.F. AT THE BASE OF EACH

FOR GENERAL LOCATION ONLY. FLOOR DRAINS

SHALL BE ACCESSIBLE AND SHALL BE COORDINATED

WITH MECHANICAL EQUIPMENT LAYOUT. ALL FLOOR

CONFORMING TO ASSE STANDARD 1072, SHALL BE

INSTALLED AT ALL FLOOR AND HUB DRAINS. INSTALL

TRAP GUARD DEVICES PER MANUFACTURER'S

DRAIN, WASTE, SEWER AND VENT PIPING SHALL BE

RODDED AND CLEANED AT END OF CONSTRUCTION.

ALL TRAPS SHALL BE CLEANED AND PRIMED AT END

DRAINS SHALL HAVE A 4" DEEP SEAL TRAP MINIMUM.

V. AN APPROVED TRAP GUARD PRODUCT,

W. ALL NEW AND EXISTING STORM DRAIN, CONDENSATE

X. PROVIDE PRESSURE REDUCING VALVES IN WATER

U. FLOOR DRAINS IN MECHANICAL ROOMS ARE SHOWN

- A. ALL PLUMBING AND NATURAL GAS WORK SHALL COMPLY WITH THE LATEST EDITION OF THE "INTERNATIONAL PLUMBING CODE" AND THE "INTERNATIONAL MECHANICAL CODE", NFPA ADOPTED BY THE AUTHORITY(S) HAVING JURISDICTION, ALL STATE AND LOCAL CODES, AND PROJECT SPECIFICATIONS.
- B. VISIT THE SITE AND VERIFY CONDITIONS PRIOR TO BIDDING.
- C. VERIFY UTILITY LOCATIONS AND INVERTS, PRIOR TO ROUTING SERVICES. COORDINATE ALL BUILDING WASTE, SANITARY SEWER, STORM DRAINS, FIRE AND DOMESTIC WATER LINES AND NATURAL GAS LINES WITH CIVIL PLANS, REFER TO THE CIVIL PLANS FOR CONTINUATION OF ALL UTILITY LINES.
- D. PAY ALL UTILITY FEES AND CHARGES AS PART OF BASE BID IN THE CONTRACT.
- E. ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRIC RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, FITTING OR COMPONENT. DO NOT SCALE DRAWINGS. INFORMATION AND COMPONENTS SHOWN ON RISER DIAGRAMS OR DETAILS, BUT NOT SHOWN ON PLANS, AND VICE-VERSA, SHALL BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH. SUBMIT A REQUEST FOR INFORMATION (RFI) IF INFORMATION CONFLICTS. DRAWINGS SPECIFIC TO THIS DISCIPLINE DO NOT LIMIT THE RESPONSIBILITY OF WORK REQUIRED BY CONTRACT DOCUMENTS. REFER TO ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND OTHER DRAWINGS FOR ADDITIONAL INFORMATION.
- F. THE DRAWINGS REFLECT A SYSTEM DESIGNED AROUND SPECIFIC REFERENCE PRODUCTS, THE SELECTION OF WHICH HAS IMPACTED THE DESIGNS OF OTHER TRADES (HVAC, ELECTRICAL, STRUCTURAL, ETC.). IF ALTERNATE MANUFACTURERS, FUEL SOURCES, SIZES, OR MODEL NUMBERS ARE SUBMITTED OR BID, IT IS THE RESPONSIBILITY OF THE CONTRACTOR(S) TO COORDINATE ALL DIFFERENCES PRIOR TO BID. NO EXTRAS WILL BE ALLOWED FOR CHANGES REQUIRED TO OTHER TRADES IF ALTERNATE EQUIPMENT IS BID OR INSTALLED AT THE CONTRACTORS OPTION.
- G. EXCEPT WHERE MODIFIED BY SPECIFIC NOTATION TO THE CONTRARY, IT SHALL BE UNDERSTOOD THAT THE INDICATION AND/OR DESCRIPTION OF ANY ITEM,

- IN THE DRAWINGS OR SPECIFICATIONS OR BOTH. CARRIES WITH IT THE INSTRUCTION TO FURNISH AND INSTALL THE ITEM, REGARDLESS OF WHETHER OR NOT THIS INSTRUCTION IS EXPLICITLY STATED AS PART OF THE INDICATION OR DESCRIPTION.
- H. COORDINATE WORK WITH THE WORK OF ALL TRADES ON THE PROJECT.
- J. REFER TO SPECIFICATIONS FOR ACCEPTABLE MANUFACTURERS OF PLUMBING FIXTURES AND EQUIPMENT, AND PROPER APPLICATIONS OF SAME.
- ALL PIPING PENETRATIONS OF THE FLOOR, RATED CEILING AND WALL MUST BE MADE WITH A METAL PIPE OR UL LISTED APPROVED DEVICES. FIRE STOP ALL PIPE PENETRATIONS THRU RATED WALLS. REFER TO THE ARCHITECTURAL DRAWINGS FOR LOCATIONS, RATINGS AND FIRE STOPPING DETAILS.
- L. PROVIDE STOP VALVES ON EVERY FIXTURE ON BOTH HOT AND COLD WATER SUPPLY LINES. ESCUTCHEONS, FITTINGS, ETC. SHALL BE CHROME PLATED WHERE EXPOSED.
- M. ALL EXPOSED MATERIALS WITHIN RETURN AIR PLENUMS SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50, AS DETERMINED IN ACCORDANCE WITH ASTM E84 AND U.L. LISTINGS. IF ANY MATERIALS DO NOT MEET THESE STANDARDS, THE ITEMS SHALL BE ENCLOSED IN A GYPSUM-BOARD ENCLOSURE, BE PLENUM RATED MATERIALS (I.E. CAST IRON), OR BE WRAPPED WITH AN APPROVED FIRE RATING MATERIAL, SUCH AS 3M FYRE WRAP. PLASTIC PIPING (PVC, ABS, CPVC) IS NOT APPROVED TO BE INSTALLED WITHIN RETURN AIR PLENUMS UNLESS WRAPPED AS NOTED ABOVE. COORDINATE ALL RETURN AIR PLENUM LOCATIONS
- PIPING. THE MAXIMUM PRESSURE SHALL BE 70 PSI PRIOR TO BID. AT ALL OUTLETS. THE MINIMUM PRESSURE N. DO NOT ROUTE ANY PIPING OVER ELECTRIC ROOMS, ACCEPTABLE AT WATER OUTLETS IS 20 PSI AT COMPUTER ROOMS, OR ELECTRIC PANELS. FLUSH VALVES, AND 8 PSI AT ALL OTHER OUTLETS.
- O. PROVIDE A LINTEL AT ALL NEW OPENINGS (EXCEEDING 12" WIDE) IN NEW OR EXISTING WALLS.
- P. ALL WASTE PIPING BELOW GRADE SHALL BE SOLID WALL SCH 40 PVC PIPE, PVC DWV SOCKET FITTINGS AND SOLVENT-CEMENTED JOINTS.

Q. ALL WASTE AND VENT PIPING ABOVE GRADE SHALL

BE HUBLESS CAST IRON SOIL PIPE AND FITTINGS.

HEAVY DUTY HUBLESS PIPING COUPLINGS AND

FLUES AND PLUMBING VENTS. Z. EACH FIXTURE GROUP OR BATTERY OF FIXTURES SHALL BE PROVIDED WITH A SHUTOFF VALVE IN THE DOMESTIC HOT AND COLD WATER SUPPLY LINES ABOVE CEILING. VALVES SHALL BE ACCESSIBLE

FROM BELOW. ACCESS PANELS SHALL BE COORDINATED WITH ARCHITECT PRIOR TO

Y. MAINTAIN 10'-0" MINIMUM CLEARANCE BETWEEN

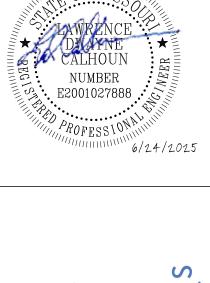
FRESH AIR INTAKES, OPERABLE WINDOWS AND

CONSTRUCTION.

- AA. PROVIDE WATER HAMMER ARRESTORS IN FIXTURE BRANCHES WHERE QUICK CLOSING VALVES ARE INSTALLED; i.e., FLUSH VALVES, ICE MAKERS, DISHWASHERS, ETC. PROVIDE WATER HAMMER ARRESTORS IN FIXTURE BRANCHES AS REQUIRED.
- AB. PROVIDE BACK FLOW PREVENTION OR AN ANTI-SIPHON DEVICE AT ALL FIXTURES THAT COULD CONTAMINATE THE POTABLE WATER SYSTEM.
- AC. INSTALL LISTED NATURAL GAS VALVE IMMEDIATELY AHEAD OF EACH NATURAL GAS PRESSURE REGULATOR, AND AT EACH PIECE OF GAS FIRED EQUIPMENT.
- AD. INSULATE ALL ABOVE GRADE SUPPLY PIPING AND
- AND DRAIN PIPING FOR HANDICAPPED FIXTURES
- AG. ALL DOMESTIC WATER AND SPRINKLER PIPING WALLS, CAREFULLY POSITION WATER PIPING ON THE HEATED SIDE (INTERIOR SIDE) OF THE WALL
- OF BEAMS AT COLUMNS OR IN WALLS. PIPING SHALL BE CONCEALED UNLESS APPROVED BY ARCHITECT.

MICHAEL L. PARSON, **GOVERNOR**

STATE OF MISSOURI



OFFICE OF ADMINISTRATION

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ROLLA, MISOURI 65401

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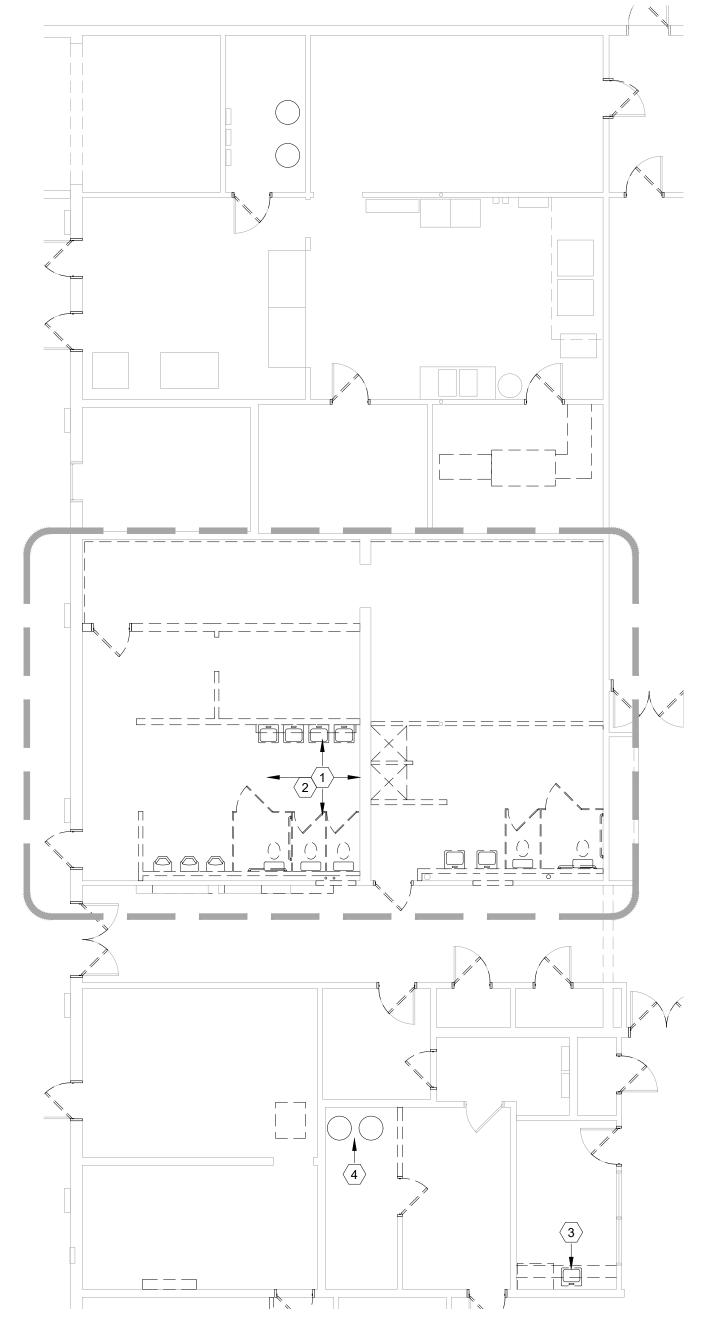
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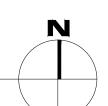
SHEET TITLE:

PLUMBING GEN NOTES & LEGEND





PLUMBING DEMOLITION PLAN $\frac{1}{P-100}$ $\frac{\text{PLUM}}{1/8" = 1'-0"}$



DEMO KEY NOTES

- 1. DEMO ALL PLUMBING (FIXTURES, SUPPLY, WASTE AND VENT PIPING) WITHIN THIS AREA AS REQUIRED TO ACCOMMODATE NEW PLUMBING FIXTURE LAYOUT. PREPARE REMAINING SUPPLY,
 WASTE AND VENT PIPING TO ACCOMMODATE NEW PLUMBING REFER TO P-102, P-103, P-104.
- 2. SAWCUT EXISTING SLAB AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW SANITARY SEWER PIPING. SCOPE EXISTING SANITARY SEWER PIPING AS REQUIRED TO VERIFY ROUTING AND INVERT PRIOR TO CUTTING SLAB.
- 3. REMOVE EXISTING SINK. PREPARE EXISTING ASSOCIATED UTILITIES (SUPPLY, WASTE AND VENT PIPING) FOR INSTALLATION
- 4. REMOVE EXISTING 40 GAL WATER HEATERS. CUT AND CAP EXISTING UNDERSLAB WATER PIPING IN THIS AREA.

OF NEW PLUMBING FIXTURE.

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**





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PLUMBING

DEMOLITION PLAN

SHEET NUMBER:

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KEYED NOTES

- 1 CONNECT NEW 4" WASTE TO EXISTING 4" WASTE IN THIS VICINITY. VERIFY EXISTING WASTE LINE SIZE, LOCATION, CONDITION AND INVERT PRIOR TO ROUTING OR CONNECTION OF NEW PIPING. IT IS UNDERSTOOD THAT THE MENS AND WOMENS BATHROOMS ARE ON 2 SEPARATE WASTE RUNS.
- 2 NEW 3" VTR. INSTALL MINIMUM OF 10 FEET FROM RTU-1 OUTSIDE AIR INTAKE.
- CONNECT NEW PLUMBING FIXTURE TO EXISTING UTILITIES (WASTE AND VENT) LOCATED IN ADJACENT WALL, CEILING OR BELOW FLOOR SLAB. VERIFY EXISTING UTILITY SIZE, LOCATION AND CONDITION PRIOR TO ROUTING OR CONNECTION OF NEW PIPING.
- 4 INSTALL NEW 3" HUB DRAIN RELATIVE TO THE NEW RPZ TO ALLOW FOR TESTING AND DRAINING. ROUTE HUB DRAIN TO NEAREST EXTERIOR WALL TO OUTSIDE AND TURN DOWN, PROVIDE STAINLESS STEEL SCREEN. SEAL PIPE PENETRATION AT WALL. THERE IS AN EXISTING AHU IN THIS LOCATION, ROUTE THE EXISTING CONDENSATE TO THE NEW HUB DRAIN.

— - - — COLD WATER PIPING

F.C.O. FLOOR CLEANOUT W.C.O. WALL CLEANOUT

PLUMBING LEGEND

	HOT WATER PIPING
	HOT WATER RECIRCULATION PIPING
— GAS —	GAS PIPING
—BW —	WASTE PIPING
— CD —	CONDENSATE LINE
—XBW—	EXISTING BUILDING WASTE
—GW—	GREASE LADEN WASTE PIPING
ows	OIL-WATER-SOLIDS WASTE PIPING
—V	VENT PIPING
C.O.T.G.	CLEANOUT TO GRADE











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ROLLA READINESS CENTER 201 FAIRGROUNDS ROAD ROLLA, MISOURI 65401

PROJECT # T2238-01 SITE # 6297 ASSET # 8136297001

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WASTE PIPING PLAN

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P-101

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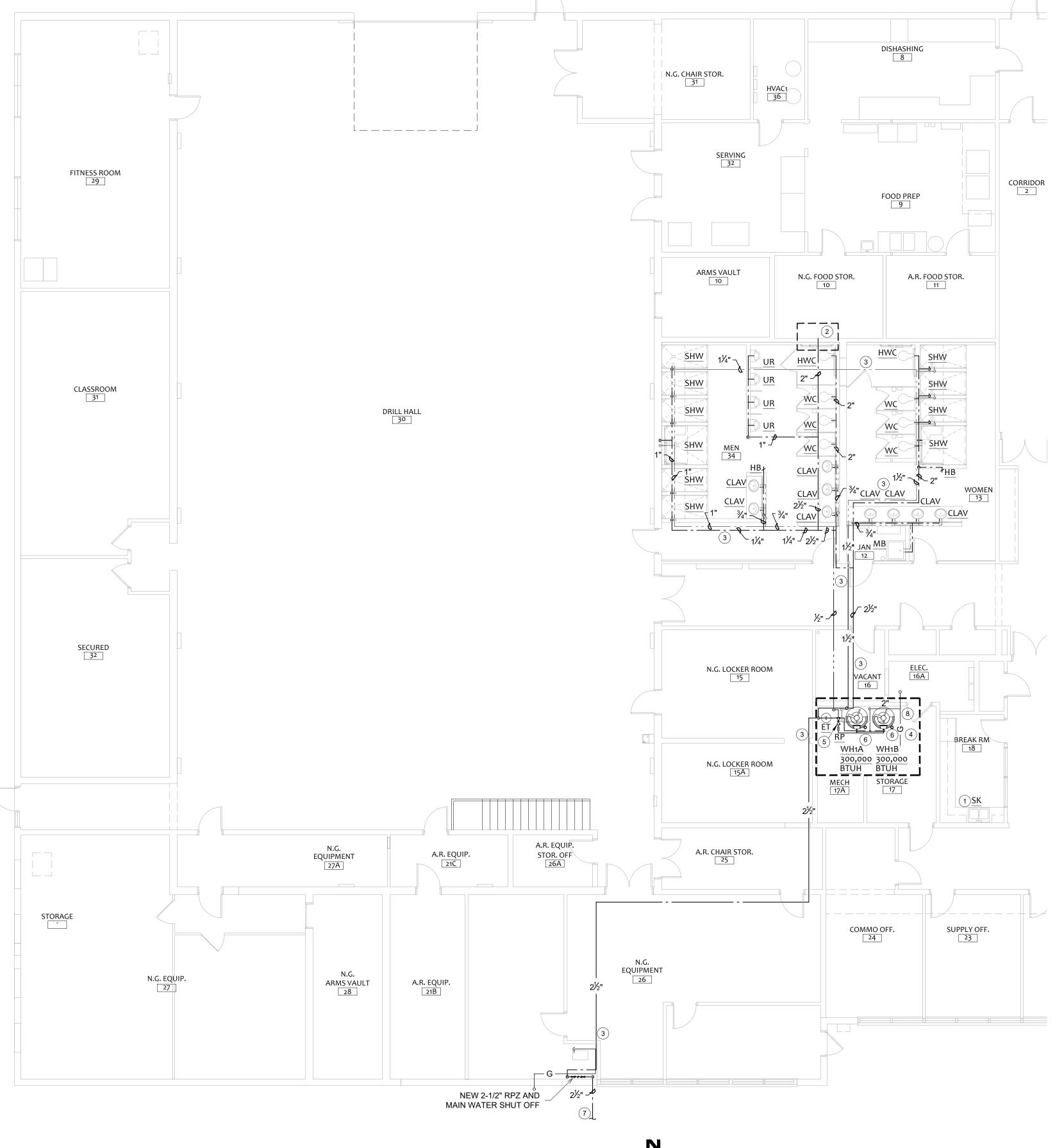
GENERAL NOTES

- 1 P.C. TO FIELD VERIFY EXISTING METER SIZE AND COLD WATER SUPPLY SIZE. COORDINATE WITH RMU FOR NEW METER SIZE AND ROUTE A NEW 2-1/2" WATER LINE TO THE BUILDING. PROVIDE NEW 2-1/2" RPZ AS SHOWN AND ROUTE NEW COLD WATER SERVICE OVERHEAD.
- P.C. TO LOCATE EXISTING UNDERSLAB WATER PIPING (HOT AND COLD). NEW PIPING TO BE ROUTED TO NEW WATER HEATERS, AND MENS AND WOMENS BATHROOMS ABOVE CEILING. ALL EXISTING UNDERSLAB PIPING TO BE CUT, CAPPED AND REMOVED OR ABANDONED. NEW 2-1/2" COLD WATER LINE TO BE CONNECTED TO EXISTING KITCHEN COLD WATER SUPPLY. IT WILL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO VERIFY ALL EXISTING FIXTURES NOT COVERED IN THE NEW REMODEL ARE IN WORKING CONDITION AND HAVE A SERVICEABLE WATER CONNECTION.
- NO UNUSED UNDERSLAB PIPING IS TO BE LEFT CONNECTED TO THE NEW COMPLETED SYSTEM.

KEYED NOTES

- 1 P.C. TO VERIFY HOT AND COLD WATER AT THE NEW PLUMBING FIXTURE (SK). ROUTE NEW HOT AND COLD WATER AS NEEDED ABOVE CEILING AND DOWN WALL TO NEW FIXTURE LOCATION.
- P.C. TO VERIFY LOCATION OF EXISTING COLD WATER SUPPLY TO KITCHEN AREA. ROUTE NEW 2" CW TO EXISTING CW IN THIS VICINITY. VERIFY EXISTING WATER LINE SIZE, LOCATION AND CONDITION PRIOR TO ROUTING OR CONNECTION OF NEW PIPING. PROVIDE A SHUT OFF VALVE AND ACCESS DOOR AT CONNECTION.
- P.C. TO PLACE A LAYER OF BATT INSULATION (6" MIN) BETWEEN NEW ABOVE CEILING WATER LINES AND THE ROOF.
- 4 SEE SHEET P-302 DETAIL 5 FOR CONNECTIONS AT NEW WATER HEATERS.
- 5 PROVIDE BELL & GOSSETT #CB-1/2S LF CIRCUIT SETTER BALANCING VALVE, SET AT 1.0 GPM.
- 6 4" PVC COMBUSTION AIR AND 4" PVC VENT UP TO CONCENTRIC VENT THROUGH ROOF.
- 7 EXTEND NEW 2-1/2" WATER LINE APPROX 110' SOUTH TO NEW WATER METER. COORDINATE WITH UTILITY COMPANY
- THERE IS AN EXISTING 2" GAS LINE IN THIS LOCATION. P.C. TO REMOVE EXISTING GAS PIPING TO OLD WATER HEATERS AND ADD NEW 2" GAS PIPING TO NEW WATER HEATERS REDUCING AS NEEDED TO MAKE CONNECTIONS TO EACH UNIT.

PLUMBING LEGEND --- COLD WATER PIPING --- HOT WATER PIPING --- HOT WATER RECIRCULATION PIPING --- GAS — GAS PIPING --- WASTE PIPING --- CD — CONDENSATE LINE --- XBW — EXISTING BUILDING WASTE --- GW — GREASE LADEN WASTE PIPING --- OWS — OIL-WATER-SOLIDS WASTE PIPING --- V — VENT PIPING C.O.T.G. CLEANOUT TO GRADE F.C.O. FLOOR CLEANOUT W.C.O. WALL CLEANOUT





STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR





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SUPPLY PIPING PLAN

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GENERAL NOTES

1 EXISTING GAS METER TO BE CHANGED FROM LOW PRESSURE (7" W.C.) TO HIGH PRESSURE (2 LBS). THE EXISTING PIPING IS TO REMAIN. THERE ARE TO BE (5) NEW GAS REGULATORS PLACED IN THE EXISTING GAS PIPING SYSTEM TO BRING THE PRESSURE DOWN TO 7" W.C.. P.C. TO VERIFY CONNECTED LOAD AND COORDINATE WITH AMEREN MISSOURI - TRENT SNODGRASS (TSNODGRASS@AMEREN.COM) TO VERIFY GAS METER USAGE AND SIZING.

KEYED NOTES

- EXISTING LOW PRESSURE GAS LINE ON HIGH ROOF TO REMAIN UNCHANGED. A REGULATOR TO BE ADDED NEAR METER TO MAINTAIN 7" W.C. SEE SHEET P-302 DETAIL 5.
- 2 2" GAS PIPING UP ONTO LOW ROOF AREA. GAS PIPING TO REMAIN. GAS PRESSURE TO BE CHANGED FROM 7" W.C. TO 2LBS HIGH PRESSURE. INDEPENDENT GAS REGULATORS TO BE PROVIDED AT INDICATED LOCATIONS TO CHANGE GAS PRESSURE FROM 2 LBS. TO 7" W.C. SEE DETAIL 5 SHEET P-302 FOR GAS METER AND REGULATOR LOCATIONS ON THE NORTH SIDE OF THE BUILDING. COORDINATE WITH GAS PROVIDER FOR NEEDED CHANGES.
- 3 P.C. TO INSTALL A NEW GAS REGULATOR (2 LBS. TO 7" W.C.) AT THIS LOCATION. VERIFY CONNECTED LOAD.
- 4 SEE SHEET P-102 FOR GAS PIPING CONTINUATION TO NEW WATER

PLUMBING LEGEND

COLD WATER PIPINGHOT WATER PIPING

— - - - — HOT WATER RECIRCULATION PIPING

— GAS — GAS PIPING

—BW — WASTE PIPING

— CD — CONDENSATE LINE—XBW— EXISTING BUILDING WASTE

—GW — GREASE LADEN WASTE PIPING

—OWS— OIL-WATER-SOLIDS WASTE PIPING

F.C.O. FLOOR CLEANOUT

W.C.O. WALL CLEANOUT

⊢ G ⊸ **EXISTING GAS** PIPING NEW GAS PIPING TO RTU-1 EXISTING GAS



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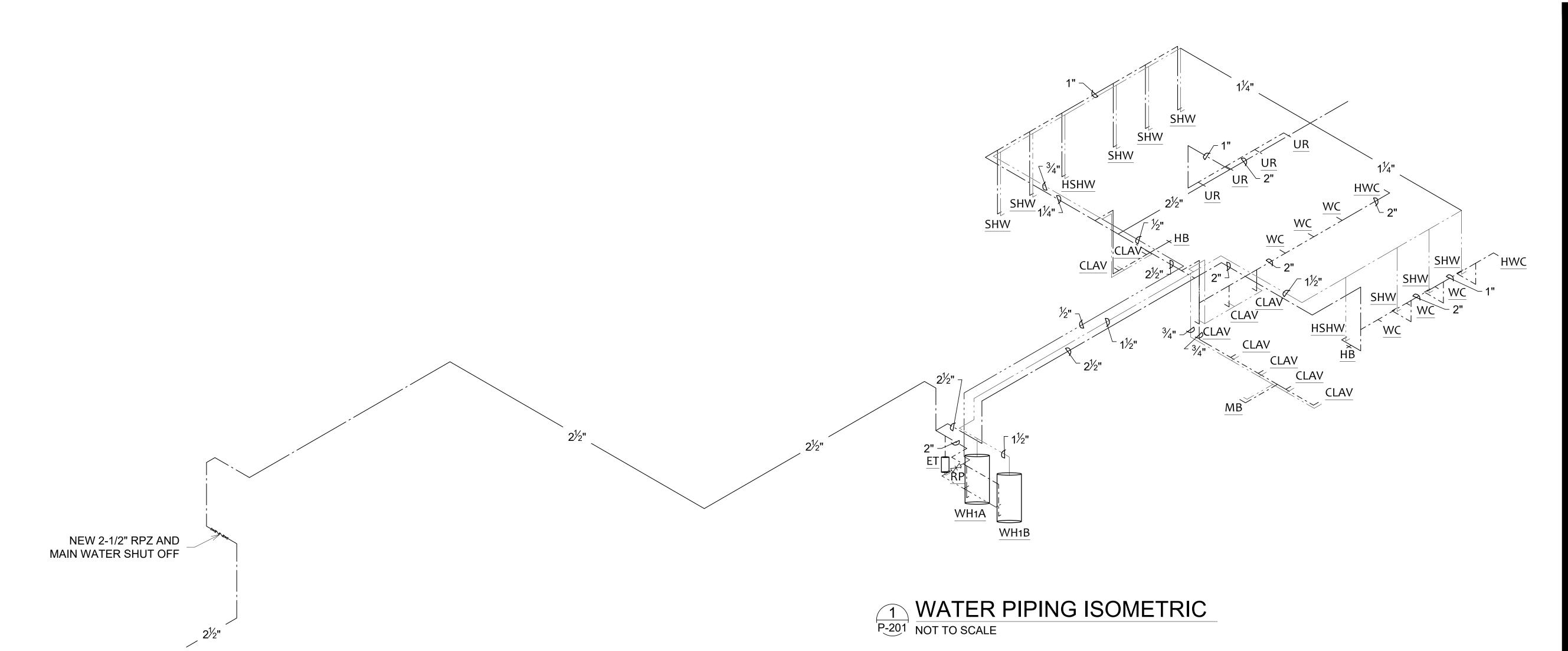
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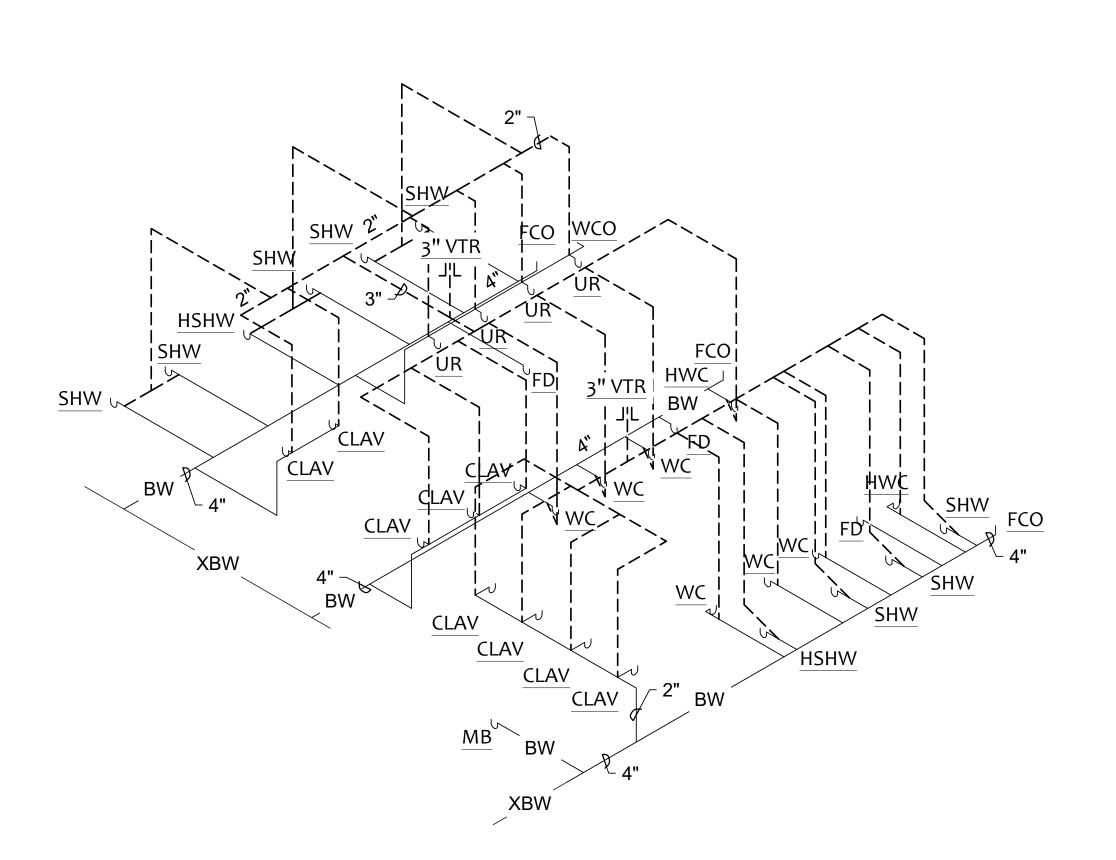
ROOF GAS PIPING PLAN

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WASTE PIPING ISOMETRIC
NOT TO SCALE

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PLUMBING ISOMETRICS

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MADV	DESCRIPTION	MANHICACTURER	MODEL	ACCESSORIES	FALICET	\\\\\CTF	VENIT	CONN	I. SIZE	DEMADES
MARK	DESCRIPTION	MANUFACTURER	MODEL	ACCESSORIES	FAUCET	WASTE	VENT	HOT	COLD	REMARKS
CLAV	20"X17" COUNTERTOP LAVATORY	ZURN	Z5114	GRID	ZURN Z7440-XL-FC	2"	2"	1/2"	1/2"	3
FCO	FINISH FLOOR CLEANOUT	ZURN	ZN1400-BP	-	-	-	-	-	-	6
<u>FD</u>	CAST-IRON BODY FLOOR DRAIN	ZURN	ZN-Z415B	TRAP	-	2"	2"	-	-	-
<u>HB</u>	HOSE BIBB	ZURN	Z1341	BOX	-	-	-	-	1/2"	7
<u>HD</u>	HUB DRAIN	-	-	-	-	3"	-	-	-	-
HWC	ADA FLUSH VALVE WATER CLOSET	ZURN	Z5665-BWL1	SEAT	ZURN Z6000AV	4"	2"	-	1"	1
<u>HSHW</u>	ACCESSIBLE SHOWER	-	-	BARS, DRAIN, SH-SEAT	Z7300-SSC-HW11- MT-VB-WF	2"	2"	1/2"	1/2"	4,5
SHW	SHOWER	-	-	DRAIN	ZURN Z7301-SS-MT-S5	2"	2"	1/2"	1/2"	4,5
<u>URN</u>	WALL MOUNTED 0.5 GPF	ZURN	Z5755-U	CARRIER	Z6003AV-EWS	2"	2"	-	3/4"	2
<u>WC</u>	FLUSH VALVE WATER CLOSET	ZURN	Z56550BWL1	SEAT	ZURN Z600AV	4"	2"	-	1"	-
WCO	WALL CLEANOUT	ZURN	Z1446	-	-	PIPE SIZE	-	-	_	2
MB	STONE MOP BASIN	STERN-WILLIAMS	MB-2424	GUARD, HANGER, HOSE, PANEL	STERN-WILLIAMS T-10-VB	3"	2"	3/4"	3/4"	8
SK	DOUBLE BOWL SS SINK	ZURN	LR3322	STRAINER, GARBAGE	ELKAY LK7922SSS	2"	2"	1/2"	1/2"	9

ACCESSORIES:

BARS - ADA COMPLIANT GRAB BARS BOX - ZURN Z341 - BOX FAUCET BOX CARRIER - FLOOR MOUNTED CARRIER GARBAGE - GARBAGE DISPOSAL EQUAL TO IN-SINK-ERATOR BADGER 5 DRAIN - SHOWER DRAIN - ZURN ZS415BS GRID - GRID STRAINER/TAILPIECE - ZURN Z8743-PC SEAT - ZURN Z5956SS-EL (HEAVY DUTY) OPEN FRONT WHITE SEAT SH-SEAT - REMOVABLE FOLD-UP SEAT TRAP - TRAP GUARD DEVICE CONFORMING TO ASSE STANDARD 1072 GUARD - STERN-WILLIAMS ALUMINUM BUMPER GUARDS #A20 HANGER - STERN-WILLIAMS STAINLESS STEEL MOP HANGER #T-40

HOSE - STERN-WILLIAMS HOSE & WALL HOOK #T-35 PANEL - STERN-WILLIAMS STAINLESS STEEL SPLASH CATCHER PANELS #BP STRAINER - ELKAY LK99 STAINLESS STEEL STRAINER BASKET

REMARKS:

- 1. HANDLE ON THE WIDE SIDE OF THE STALL.
- 2. REFER TO THE ARCHITECTURAL PLANS FOR THE MOUNTING HEIGHT.
- 3. INSULATE THE SUPPLY AND DRAIN PIPING WITH A WHITE INSULATION DEVICE EQUAL TO McGUIRE MODEL NO. PW-2150-WC AND PROVIDE A THERMOSTATIC MIXING VALVE ON THE SUPPLIES EQUAL TO WATTS MODEL NO. LFUSG-B
- 4. VALVE ORIENTATION PER THE PLAN.
- 5. REFER TO THE ARCHITECTURAL PLANS FOR THE SHOWER SURFACE ENCLOSURE INFORMATION. 6. REFER TO THE PLAN FOR THE SIZE.
- 7. MOUNTED AT 24" ABOVE FINISH FLOOR
- 8. FAUCET SHALL HAVE VACUUM BREAKER

9.	NO	QU	ICK	CLI	PS	ALI	-Ο۱	N

	PUMP SCHEDULE (BASIS OF DESIGN)											
MARK	MANUFACTURER	MODEL	WATER FLOW RATE	TOTAL HEAD	PUMP	MO	10TOR ELECTRICAL		ACCESSORIES REI	REMARKS		
			GPM	FT. OF H ₂ O	RPM	ВНР	MHP	V/PH	MCA	МОСР		
RP	BELL & GOSSETT	NBF-25	1	12	-	-	125W	120/1	1	15	TSM, TH, TM	1

ACCESSORIES:

TSM - THREE SPEED MOTOR
TH - ADJUSTABLE THERMOSTAT TM - ADJUSTABLE TIMER

REMARKS:

1. CONNECTIONS AS REQUIRED BY PIPING TYPE.

	GAS WATER HEATER SCHEDULE (BASIS OF DESIGN)										
MARK	MANUFACTURER	MODEL	GAS INPUT	RECOVERY @100°F. RISE	STORAGE CAPACITY	EL	ECTRIC	AL	REMARKS		
			MBH	GPH	GALLONS	V/PH MCA MOCP					
WH1A	STATE	SUF119 300NE (A)	300	349	119	120/1	6	20	1,2,3,4,5		
WH1A	STATE	SUF119 300NE (A)	300	349	119	120/1	6	20	1,2,4,5		

REMARKS:

- 1. 140° F. TANK STORAGE TEMPERATURE.
- 2. ASME CERTIFICATION.
- 3. THERMAL EXPANSION TANK AMTROL ST-30VC-DD
- 4. CONCENTRIC VENT KIT.
 5. CONDENSATE NEUTRALIZATION KIT.

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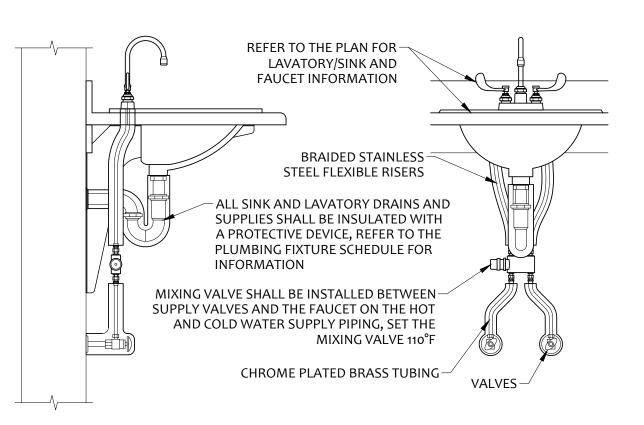
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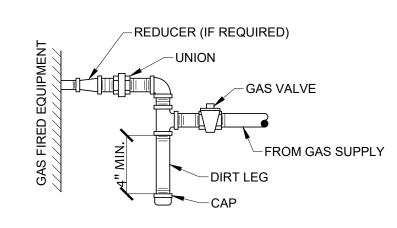
PLUMBING DETAILS & SCHEDULES

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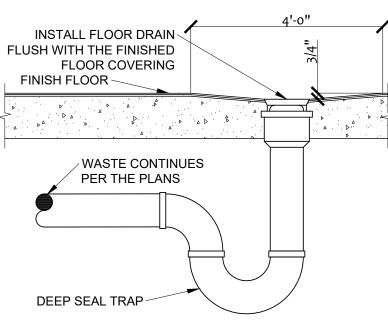
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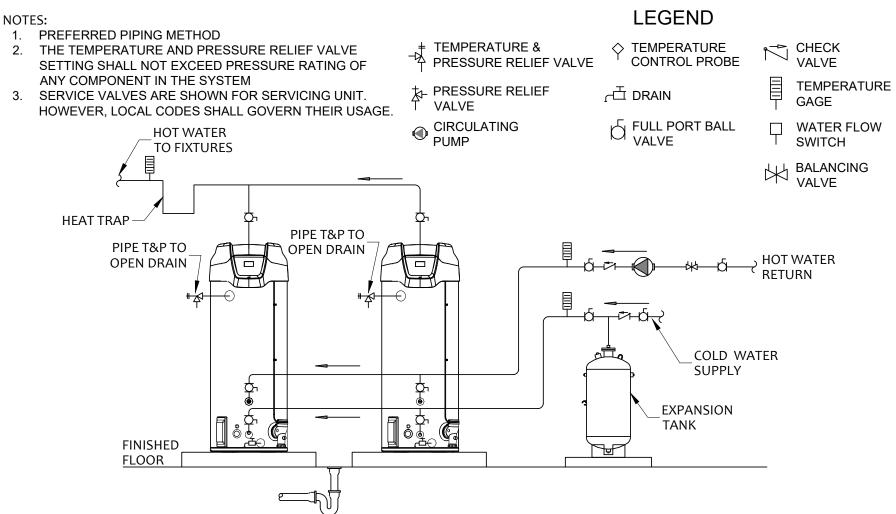
LAVATORY INSTALLATION DETAIL NOT TO SCALE



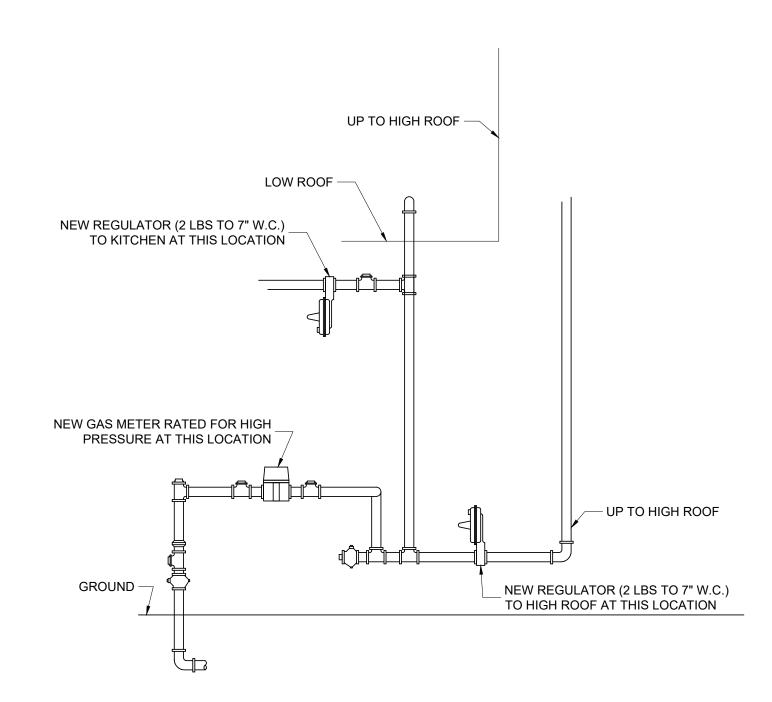
GAS CONNECTION DETAIL NOT TO SCALE



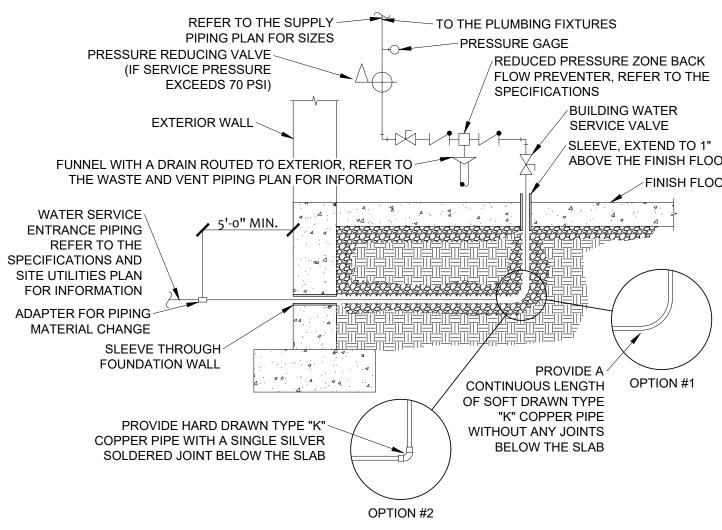
FLOOR DRAIN DETAIL



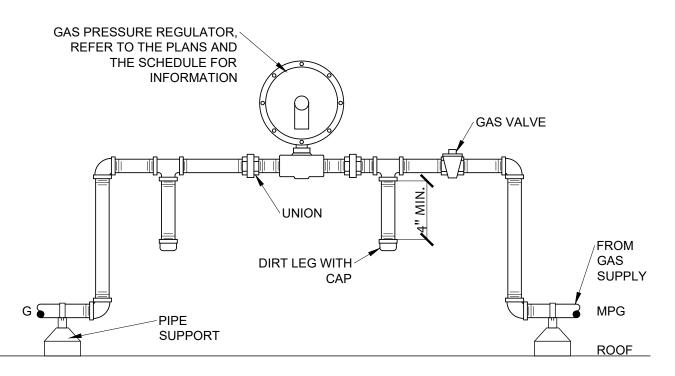
DUAL WATER HEATER PIPING DETAIL

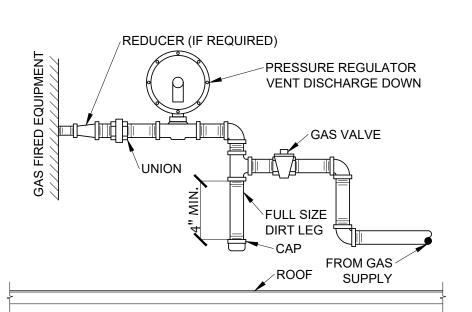


5 GAS METER RISER DETAIL
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WATER SERVICE ENTRANCE





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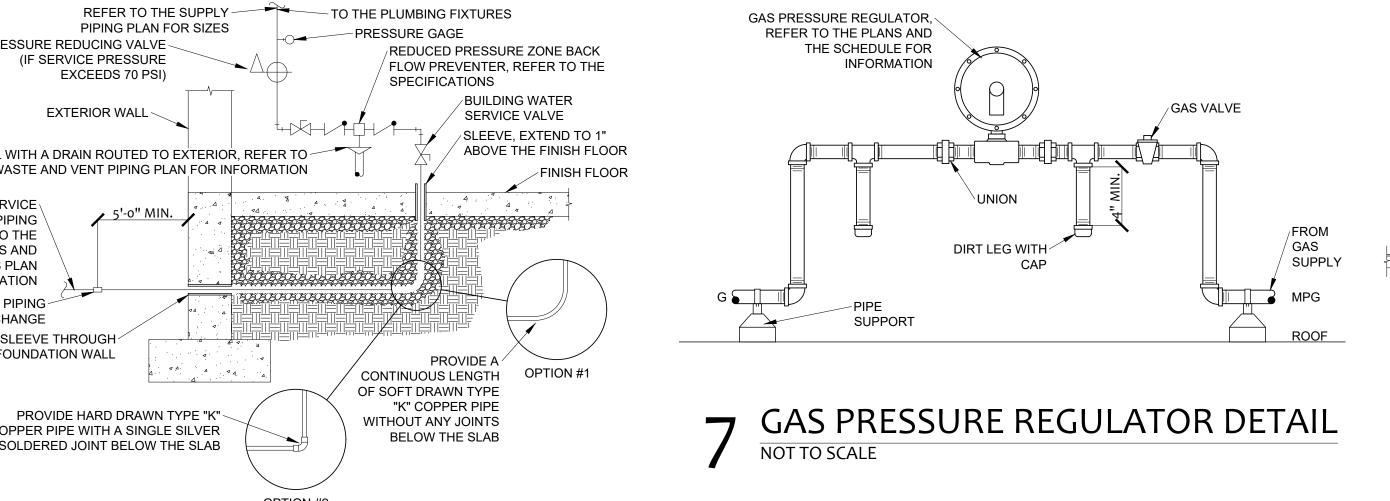
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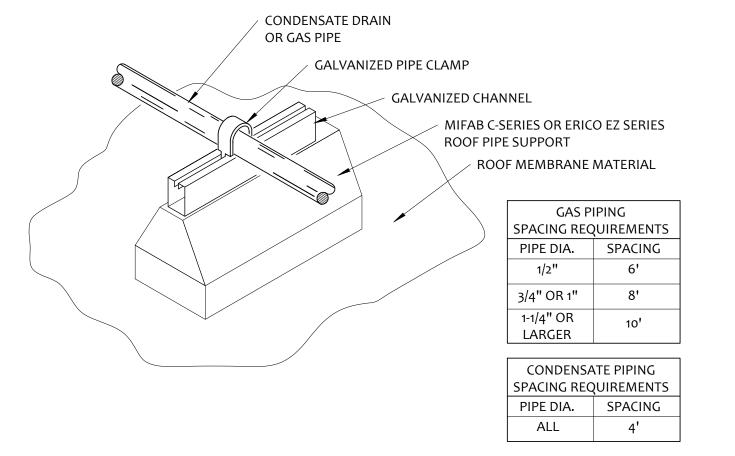
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GAS

PIPE SUPPORT DETAIL

NOT TO SCALE

HVAC EQUIPMENT CONTROL SEQUENCE

RTU-1 (DEDICATED OUTSIDE AIR UNIT W/ ENERGY WHEEL AND NATURAL GAS HEAT):

THE AHU REMOTE TOUCHSCREEN CONTROLLER SHALL MONITOR AND DISPLAY UNIT STATUS AND ALARMS. THE OCCUPIED MODE SHALL BE INITIATED ACCORDING TO THE OWNER DEFINED SCHEDULE. SEQUENCE OF OPERATION SHALL BE ACCOMPLISHED BY MANUFACTURER'S FACTORY INSTALLED CONTROLS.

SUPPLY FAN AND EXHAUST FAN SHALL OPERATE CONTINUOUSLY. THE OUTSIDE AIR DAMPER AND RETURN AIR DAMPER SHALL OPEN. THE DX COOLING AND GAS HEAT SHALL MODULATE TO MAINTAIN THE OCCUPIED SPACE TEMPERATURE SETPOINT (75°F, ADJ).

SUPPLY AND EXHAUST FANS SHALL CYCLE AND DX COOLING AND GAS HEAT SHALL MODULATE TO MAINTAIN THE UNOCCUPIED SPACE TEMPERATURE SETPOINT (68°F HEATING, 80°F COOLING). A SPACE OVERRIDE TIMER (2 HOURS) LOCATED AT THE SPACE TEMPERATURE SENSOR SHALL START/STOP THE SYSTEM ACCORDING TO THE NORMAL OCCUPIED MODE.

DEHUMIDIFICATION:

FACTORY INSTALLED MODULATING HOT GAS REHEAT SHALL PROVIDE DEHUMIDIFICATION VIA MANUFACTURER'S CONTROL SEQUENCE TO MAINTAIN SPACE RELATIVE HUMIDITY BELOW 60% (ADJ.). DEHUMIDIFICATION SEQUENCE SHALL BE ALLOWED WHEN OUTSIDE AIR TEMPERATURE IS ABOVE 40°F.

ENERGY WHEEL OPERATION:

THE ENERGY RECOVERY VENTILATOR (ERV) IS INTERLOCKED WITH SUPPLY FAN AND EXHAUST FAN OPERATION IN OCCUPIED HEATING OR COOLING MODES. FROST CONTROL - ELECTRIC HEATER SHALL MODULATE AS REQUIRED TO MAINTAIN UNIT ENTERING AIR TEMPERATURE AT 18°F. REFER TO MANUFACTURER'S LITERATURE FOR COMPLETE ERV SEQUENCE.

*THE SYSTEM SHALL SHUT DOWN: UPON DETECTION OF SMOKE BY SMOKE DETECTORS LOCATED IN THE RETURN AIR STREAM OR FIRE ALARM SYSTEM HIGH WATER LEVEL IN UNIT CONDENSATE DRAIN PAN AS SENSED BY HIGH **CONDENSATE LEVEL SWITCH**

MECHANICAL GENERAL NOTES

- A. COMPLY WITH LOCAL, STATE AND NATIONAL CODES.
- B. COORDINATE WORK WITH THE WORK OF ALL TRADES ON THE PROJECT.
- FIELD VERIFY THE EXISTING CONDITIONS PRIOR TO BIDDING.
- D. ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRIC RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, FITTING OR COMPONENT. DO NOT SCALE THE DRAWINGS. INFORMATION AND COMPONENTS SHOWN ON RISER DIAGRAMS OR DETAILS, BUT NOT SHOWN ON PLANS, AND VICE-VERSA, SHALL BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH. SUBMIT A REQUEST FOR INFORMATION (RFI) IF INFORMATION CONFLICTS. DRAWINGS SPECIFIC TO THIS DISCIPLINE DO NOT LIMIT THE RESPONSIBILITY OF WORK REQUIRED BY CONTRACT DOCUMENTS. REFER TO ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND OTHER DRAWINGS FOR ADDITIONAL INFORMATION.
- THE DRAWINGS REFLECT A SYSTEM DESIGNED AROUND SPECIFIC REFERENCE PRODUCTS, THE SELECTION OF WHICH HAS IMPACTED THE DESIGNS OF OTHER TRADES (HVAC, ELECTRICAL, STRUCTURAL, ETC.). IF ALTERNATE MANUFACTURERS, FUEL SOURCES, SIZES, OR MODEL NUMBERS ARE SUBMITTED OR BID, IT IS THE RESPONSIBILITY OF THE CONTRACTOR(S) TO COORDINATE ALL DIFFERENCES PRIOR TO BID. NO EXTRAS WILL BE ALLOWED FOR CHANGES REQUIRED TO OTHER TRADES IF ALTERNATE EQUIPMENT IS BID OR INSTALLED AT THE CONTRACTORS OPTION. NO SUBSTITUTIONS OTHER THAN THE MANUFACTURERS LISTED OR PRE-APPROVED BY ADDENDUM.
- EXCEPT WHERE MODIFIED BY SPECIFIC NOTATION TO THE CONTRARY, IT SHALL BE UNDERSTOOD THAT THE INDICATION AND/OR DESCRIPTION OF ANY ITEM, IN THE DRAWINGS OR SPECIFICATIONS OR BOTH, CARRIES WITH IT THE INSTRUCTION TO FURNISH AND INSTALL THE ITEM, REGARDLESS OF WHETHER OR NOT THIS INSTRUCTION IS EXPLICITLY STATED AS PART OF THE INDICATION OR DESCRIPTION.

- G. PROVIDE REQUIRED MODIFICATIONS TO THE NEW AND EXISTING SYSTEMS TO FACILITATE THE INSTALLATION OF THE NEW SYSTEMS AND FOR THE PROPER OPERATION OF ALL SYSTEMS.
- ALL DUCT DIMENSIONS REPRESENT INTERIOR FREE DIMENSIONS, ADJUST DUCT CONSTRUCTION FOR THE INSULATION SPECIFIED.
- LOW PRESSURE FLEXIBLE DUCT SHALL HAVE A MAXIMUM LENGTH OF 5'-o", BE PROPERLY SUPPORTED WITH NO KINKS OR HARD BENDS. ELBOWS SHALL HAVE AN R/D NOT LESS THAN 1.0.
- J. LOW PRESSURE DUCT FITTINGS: BRANCH SUPPLY DUCT TO CEILING SUPPLY DIFFUSERS TO BE HIGH EFFICIENCY TAP WITH A DAMPER. ALL 90 DEGREE ROUND ELBOWS SHALL HAVE A R/D = 1.5. ALL 90 DEGREE RECTANGULAR ELBOWS SHALL HAVE TURNING VANES UNLESS OTHERWISE NOTED.
- CLOSELY COORDINATE THE LOCATION OF INSTALLED EQUIPMENT TO ACHIEVE THE GREATEST ACCESSIBILITY FOR MAINTENANCE PURPOSES.
- X. ALL DUCTS PASSING THROUGH A FIRE RATED MEMBRANE SHALL BE INSTALLED WITH FIRE DAMPER, OR PROTECTED AS REQUIRED BY THE GOVERNING
- Y. REFER TO ARCHITECTURAL PLANS FOR CEILING GRILLE LOCATIONS AND CEILING TYPE.
- Z. SEAL ALL DUCT JOINTS WITH LIQUID SEALER. DUCT TAPE IS NOT ACCEPTABLE.
- AA. PROVIDE DUCT ACCESS DOORS AT EACH FIRE DAMPER, CONTROL DAMPER AND UPSTREAM AND DOWNSTREAM OF EACH DUCT MOUNTED COIL. THE SIZE OF THE DOORS SHALL BE ADEQUATE FOR INSPECTION AND MAINTENANCE OF DUCT MOUNTED EQUIPMENT.
- AB. PROVIDE A LINTEL AT ALL NEW OPENINGS (EXCEEDING 12" WIDE) IN NEW OR EXISTING WALLS.
- AC. INSULATE AND SECURE THE TOP OF ALL SUPPLY AIR DIFFUSERS WITH 1" THICK FIBERGLASS DUCT WRAP.

- AD. COORDINATE LOCATION OF DUCTS AND DIFFUSERS WITH STRUCTURAL FRAMING MEMBERS. OFFSET DUCTS, AS REQUIRED, TO CLEAR STRUCTURAL MEMBERS.
- AE. PROVIDE A SLEEVE, FOR ALL PIPE AND DUCTS, THROUGH FIRE RATED PARTITIONS AND SLABS AND SEAL WITH FIRE RATED SEALANT.
- AF. PATCH ALL WALLS, FLOORS, AND CEILINGS TO MATCH THE SURROUNDING SURFACE FOR ALL OPENINGS CREATED BY DEMOLITION WORK. REPLACE AND/OR PATCH TO MATCH THE EXISTING SURFACE ANY PIPE AND/OR DUCT INSULATION THAT SHALL REMAIN AND IS DAMAGED OR REMOVED DURING CONSTRUCTION.
- AG. ACCESS PANELS IN HARD CEILINGS SHALL BE A MINIMUM OF 24" X 24" FOR BALANCING DAMPERS, HUMIDIFIERS, VALVES, TRAPS, CLEAN OUTS, CONTROLS, FIRE DAMPERS, ETC.
- AH. REFER TO THE ARCHITECTURAL PLANS FOR THE LOCATION OF FIRE AND SMOKE PARTITIONS.
- AI. REFER TO THE ARCHITECTURAL PLANS FOR WALL AND ROOF PENETRATIONS AND EQUIPMENT MOUNTING DETAILS.
- AJ. USE EXISTING PIPING SYSTEM VALVES WHERE POSSIBLE TO ISOLATE SYSTEMS AND TO CAP EXISTING PIPING. REPLACE EXISTING VALVES WHERE NECESSARY WHEN EXISTING VALVES DO NOT OPERATE PROPERLY.
- AK. COORDINATE AND SCHEDULE ALL CONNECTIONS TO EXISTING SYSTEMS AND SYSTEM SHUT-DOWNS WITH
- AL. MAINTAIN EXISTING BUILDING SYSTEMS WITH PHASED DEMOLITION AND INSTALLATION OF NEW WORK, PROVIDING TEMPORARY SERVICES AS REQUIRED.
- AM. EXISTING EQUIPMENT BEING REMOVED AND DESIGNATED TO REMAIN THE PROPERTY OF THE OWNER SHALL BE DELIVERED UPON REMOVAL TO THE LOCATION DESIGNATED BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL OTHER SYSTEM COMPONENTS REMOVED FROM THE SITE.

- AN, MAINTAIN A MINIMUM CLEARANCE OF 10'-0" BETWEEN OUTSIDE AIR INTAKES AND ALL EXHAUST FANS, PLUMBING VENTS, FLUES AND OTHER SOURCES OF ODOR.
- AI. EXISTING HVAC SYSTEMS AND LAYOUT INDICATED ON DRAWINGS IS BASED ON ORIGINAL CONSTRUCTION DOCUMENTS AND SITE EVALUATION WHERE POSSIBLE. CONTRACTOR SHALL FIELD VERIFY EXISTING SITE CONDITIONS, INCLUDING:
- EQUIPMENT SIZE AND LOCATION
- DUCTWORK SIZE AND ROUTING PIPING SIZE AND ROUTING
- MECHANICAL CONTROLS
- AJ. REMOVE ALL PORTIONS OF DUCTWORK AND PIPING SYSTEMS INDICATED FOR DEMOLITION, TERMINATE EXISTING SYSTEMS ABOVE CEILING AND BELOW FLOOR SLABS SUCH THAT IT DOES NOT CONFLICT WITH NEW WORK.
- AK. REMOVE AND RELOCATE SMALL CONDUIT, CABLE, PIPE, DUCTWORK, HANGERS, ETC. AS NECESSARY TO ACHIEVE A COMPLETE INSTALLED MECHANICAL SYSTEM AS SHOWN ON DRAWINGS.
- AL. CLOSELY COORDINATE NEW WORK WITH EXISTING SYSTEMS. PROVIDE NECESSARY MODIFICATIONS TO FACILITATE INSTALLATION/INTERFACE OF NEW SYSTEMS WITH EXISTING.
- AM. OUTDOOR DUCTWORK SHALL BE PRO-R, FACTORY MANUFACTURED PRE-INSULATED DUCTWORK AS MANUFACTURED BY DUCTS & CLEATS, OR APPROVED EQUAL.

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**

MECHANICAL SYMBOLS LEGEND

NOTE: ALL SYMBOLS MAY NOT APPEAR ON EVERY PLAN.

SUPPLY AIR CEILING GRILLE

RETURN AIR CEILING GRILLE

EXHAUST AIR CEILING GRILLE

NEW EQUIPMENT

EXHAUST DUCT

SUPPLY DUCT

/////// MEDIUM PRESSURE DUCT

12X10 DUCT-WIDTHXDEPTH

UP/DN

NEW DUCTWORK

EXISTING DUCTWORK

12X10Ø FLAT OVAL DUCT-WIDTHXDEPTH

SUPPLY DUCT DOWN

ROUND DUCT DOWN

ROUND DUCT UP

SUPPLY DUCT UP

DEMOLISHED DUCTWORK

RETURN/EXHAUST DUCT DOWN

ROUND DUCT DOWN TO A BELLMOUTH FITTING WITH A DAMPER

FLEXIBLE DUCT (MAX. 5'-0" LONG)

MANUAL OPPOSED BLADE DAMPER

FLEX CONNECTION IN DUCT

MANUAL BUTTERFLY DAMPER W/ LOCKING

RADIUS ELBOW R/D = 1.5

SQUARE TO ROUND TRANSITION ROUND DUCT

SPLITTER DAMPER

AIR EXTRACTOR

DAMPER (IF SHOWN)

DAMPER (IF SHOWN)

45° DEG.° LATERAL

DAMPER (IF SHOWN)

CONICAL 45° DEG. LATERAL

45 DEG.° ENTRY TAP

FIRE DAMPER

HORIZONTAL

HUMIDISTAT

THERMOSTAT

CO₂ SENSOR

A.P.

HWR

 $(T)_A$

——CD——

SMOKE DAMPER

FIRE SMOKE DAMPER

WALL ACCESS PANEL

CONDENSATE DRAIN

CEILING ACCESS PANEL

HOT WATER SUPPLY PIPING

HOT WATER RETURN PIPING

THERMOSTAT WITH LOCKING COVER

ADJUSTABLE ROOM SENSOR

NON-ADJUSTABLE ROOM SENSOR

A.D. DUCT ACCESS DOOR, VERTICAL OR

ON THE BOTTOM OF THE DUCT

HIGH EFFICIENCY TAKE-OFF

CONICAL/BELLMOUTH TEE

ELBOW W/ TURNING VANES

SQUARE TO SQUARE TRANSITION

— QUADRANT

RECTANGULAR DUCT

MOTORIZED OPPOSED BLADE DAMPER

RETURN/EXHAUST DUCT UP

SLOPING IN DIRECTION OF AIR FLOW

SIDEWALL SUPPLY/RETURN GRILLES

EXISTING EQUIPMENT

DEMOLISHED EQUIPMENT





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ROLLA READINESS CENTER 201 FAIRGROUNDS ROAD ROLLA, MISOURI 65401

8136297001

PROJECT # T2238-01

ASSET#

REVISION: DATE: **REVISION**: DATE **REVISION:** DATE:

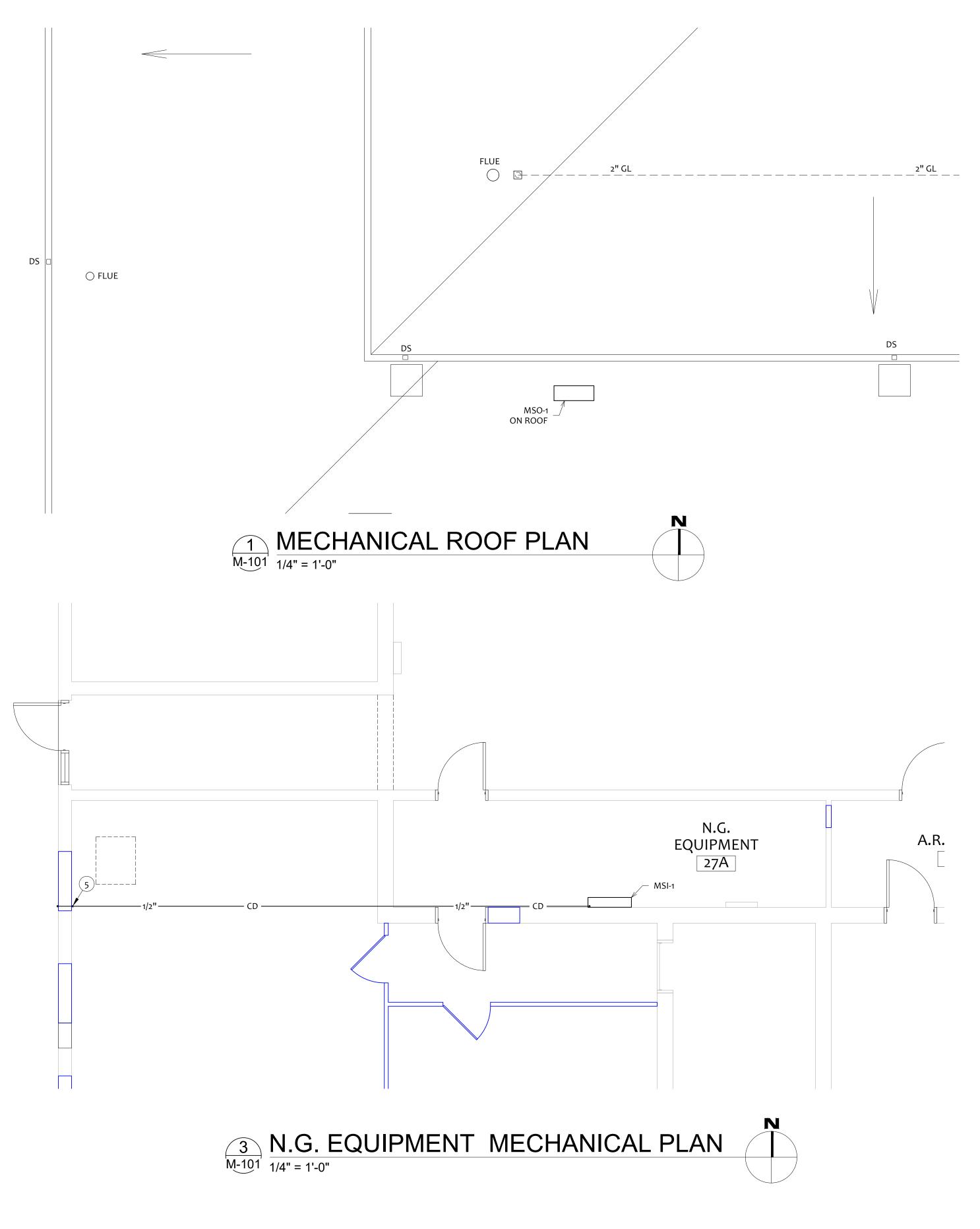
ISSUE DATE: 6-24-2025 CAD DWG FILE: T2238-01 6297 8136297001-M-101 DRAWN BY: RO

CHECKED BY: LDC SHEET TITLE:

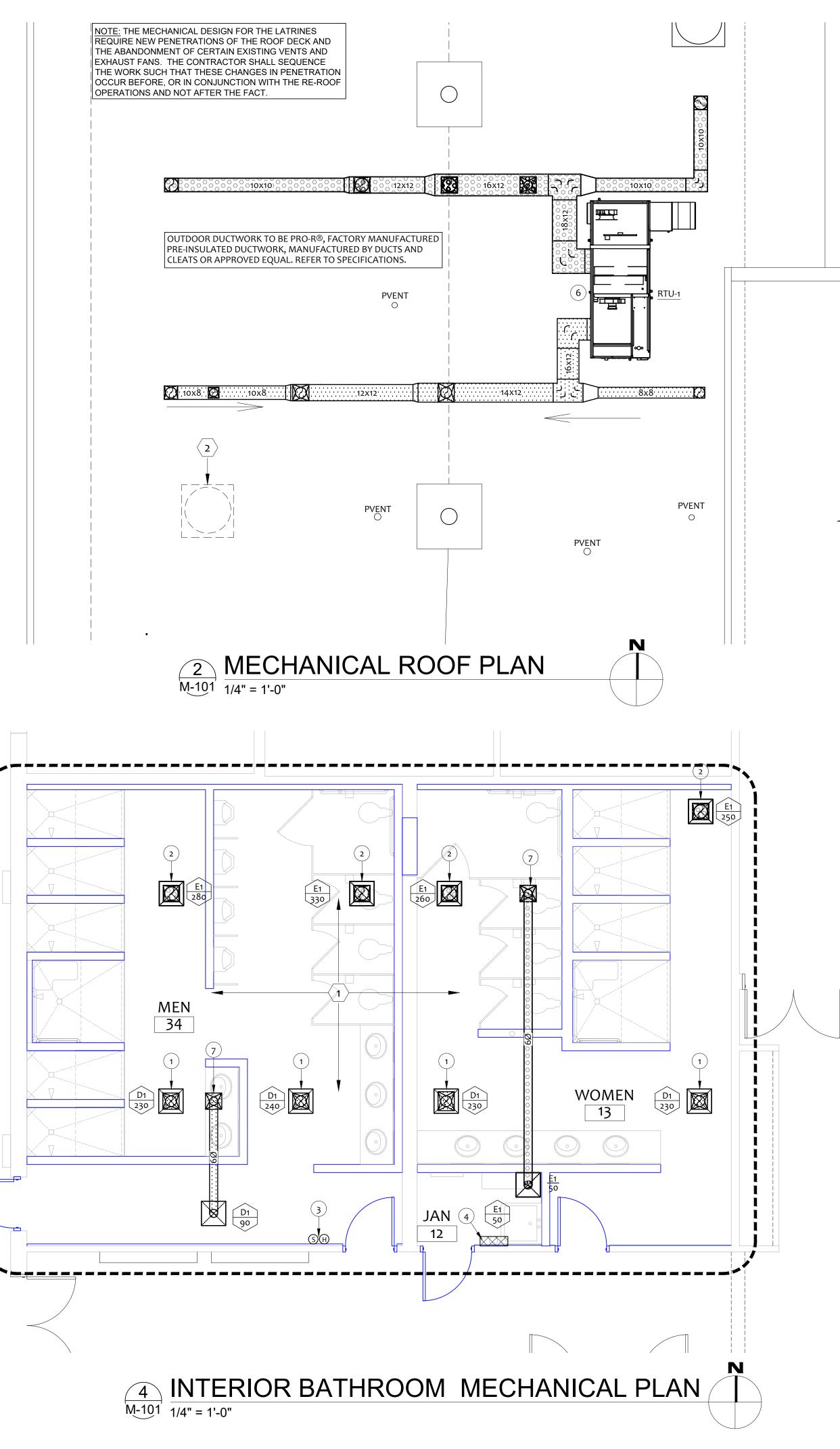
HVAC GEN NOTES & LEGEND

SHEET NUMBER:

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DEMO KEY NOTES KEYED NOTES KEYED NOTES ROUTE CONDENSATE FROM MSI-1 ABOVE CEILING AND TO EXTERIOR DEMO HVAC SYSTEM COMPLETE IN DESIGNATED AREA (UNLESS NOTED OTHERWISE) - INCLUDING DUCTWORK, AIR DEVICES, 8"Ø SUPPLY AIR DUCT WITH BALANCING DAMPER UP TO 8"X8" THROUGH ROOF. TRANSITION TO FULL SIZE RTU DUCT CONNECTION WALL AS SHOWN. ROUTE DOWN INTERIOR WALL AND TO OUTSIDE. TERMINATE AT 12" ABOVE FINISHED GRADE. SEAL WALL EXHAUST FANS/CIRCUITS & ASSOCIATED ROOF CURBS. 10"Ø EXHAUST AIR DUCT WITH BALANCING DAMPER UP TO 10"X10" THROUGH ROOF. TRANSITION TO FULL SIZE RTU DUCT CONNECTION REMOVE EXISTING ROOF CURB MOUNTED EXHAUST FAN & CURB. COORDINATE WITH ROOFING CONTRACTOR. SUPPORT CONDENSATE DRAIN PIPING ON ROOF PER DETAIL. ALL CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 PVC, PAINTED WITH UV RESISTANT COATING. ROUTE AND SLOPE TO ROOF DRAIN. VERIFY ROOM TEMPERATURE SENSOR AND HUMIDITY SENSOR LOCATIONS WITH OWNER. MOUNT AT 5' A.F.F. 6"Ø SUPPLY/EXHAUST AIR DUCT WITH BALANCING DAMPER UP TO 6"X6" THROUGH ROOF. TRANSITION TO FULL SIZE RTU DUCT 4 RTU-1 REMOTE TOUCHSCREEN CONTROLLER. VERIFY LOCATION WITH CONNECTION IN RISER.



STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**





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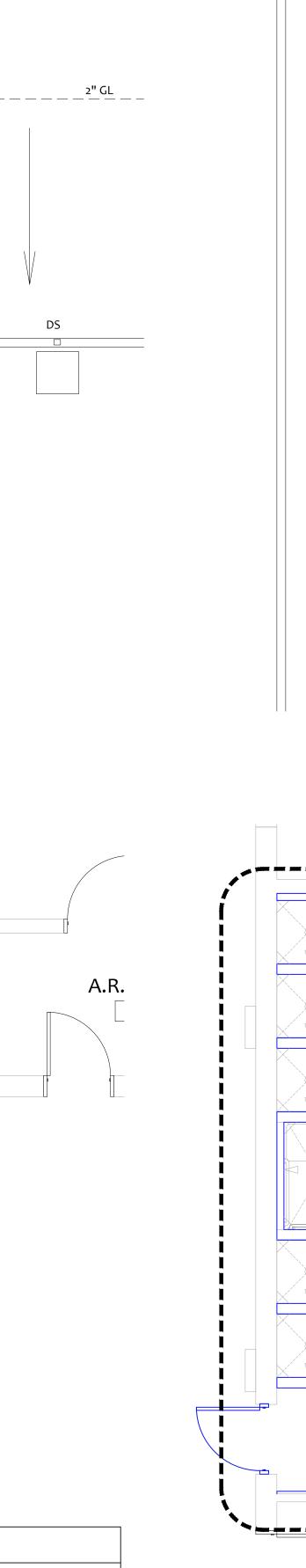
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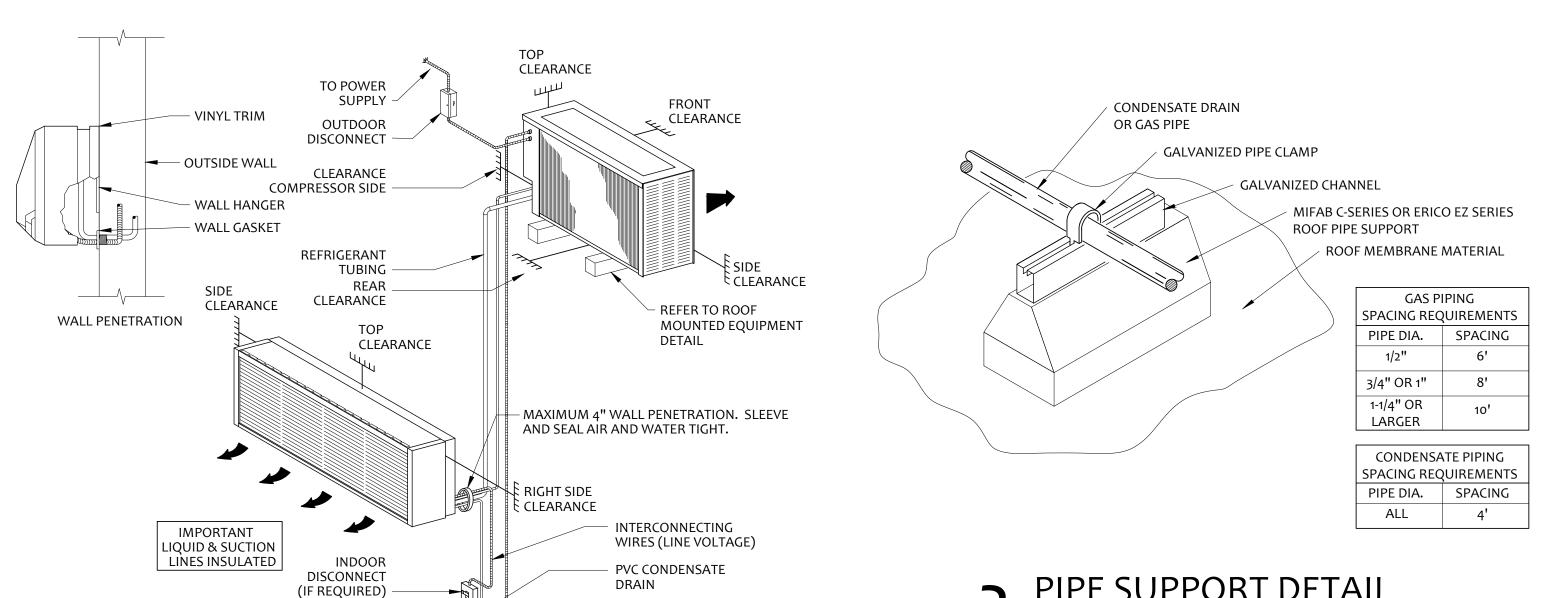
HVAC PLAN

SHEET NUMBER:

M-101

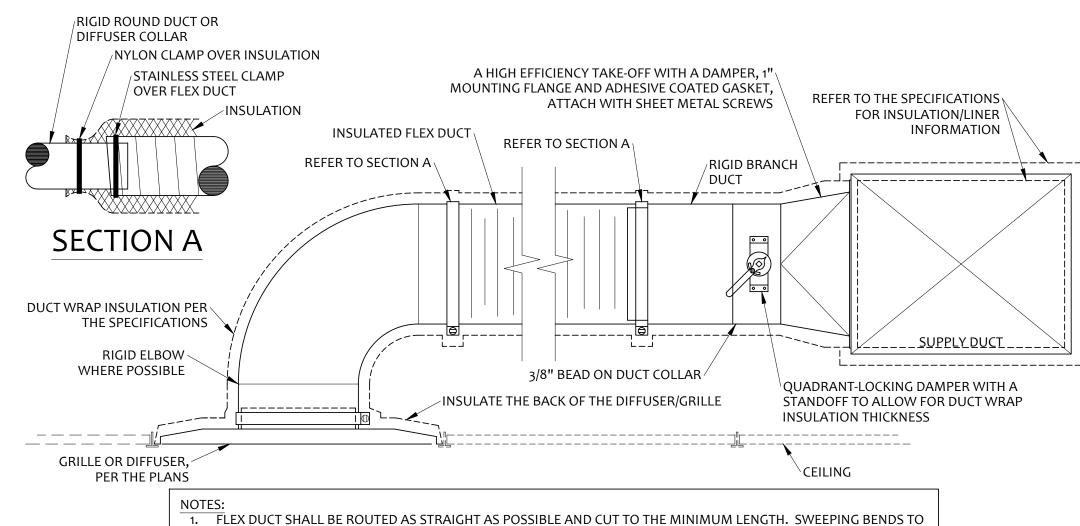
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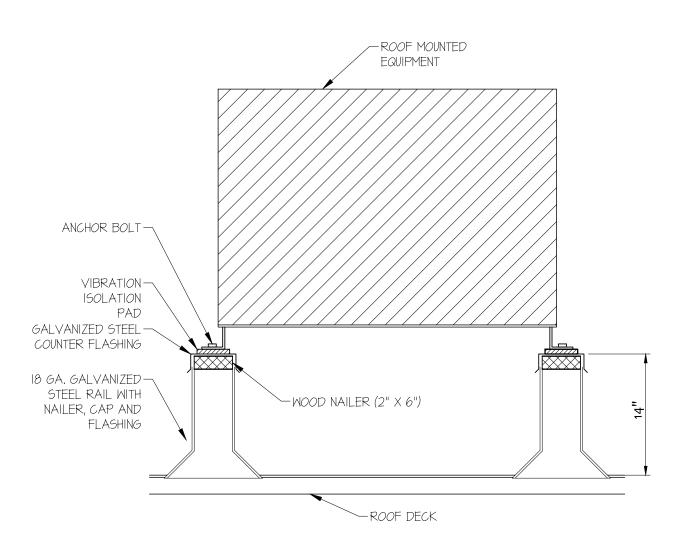


ACCOMMODATE EXCESS LENGTH IS NOT ALLOWED.

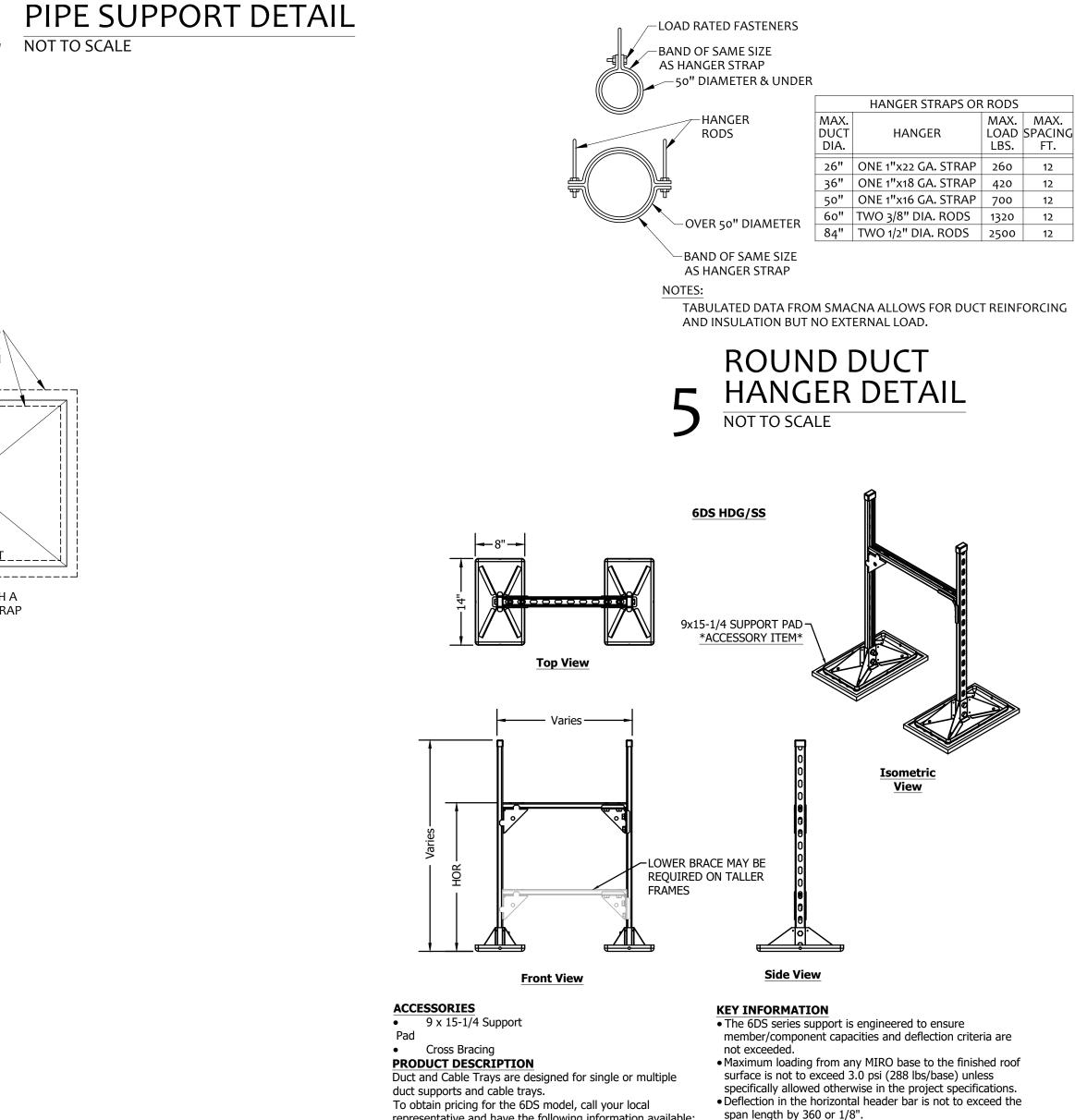


BRANCH DUCT DETAIL NOT TO SCALE

HANGING STRAPS OMITTED FROM DETAIL FOR CLARITY ONLY. PROVIDE HANGERS AS REQUIRED BY SPECIFICATIONS.



ROOF MOUNTED EQUIPMENT SUPPORT NOT TO SCALE



representative and have the following information available:

top duct layout drawing and MIRO Ind. will provide a

1. Specify number of supports needed or provide a roof

Dimensions of duct (Width x Height, or Diam)

support layout drawing and take off.

Exterior insulation thickness (if any)

Duct material (gauge thickness) 4. Clearance height above roof (HOR)

6. Does duct need to be enclosed?

ROOFTOP DUCT SUPPORT DETAIL

NOT TO SCALE

• Frame is designed for gravity loading only.

depending upon the load.

during design.

• Recommended spacing is not to exceed 8 feet centers

information provided to MIRO Ind. with a minimum height

• Frame is made with 12 Gauge Channel; size is determined

Width and height are built job specific based on

Base Material: Hot dip galvanized or stainless steel

All metal parts are hot dip galvanized or stainless steel

MAIN SUPPLY DUCT

PLAN VIEW SUPPLY REGISTER TAKE-OFF

PLAN VIEW AIR SPLIT TYPE DUCT TAKE-OFF

SUPPLY DUCT TAKE-OFFS

VOLUME EXTRACTOR,

FULLY CLOSED POSITION

TO CFM NOTE ON PLANS

SEE PLANS FOR

TURNING VANES

SUPPLY REGISTER

OR BRANCH DUCT

SPLIT DIMENSIONS

SUPPLY

DUCT

ADJUSTABLE FROM

ADJUSTABLE METAL

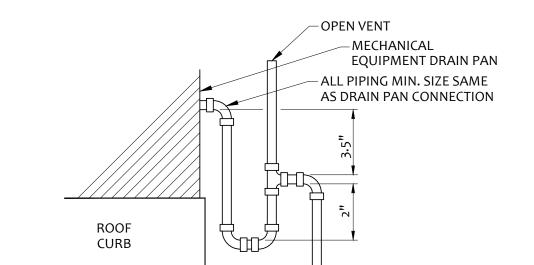
SIDEWALL REGISTER OR GRILLE

PROVIDE VOLUME DAMPER WHEN SHOWN ON PLANS

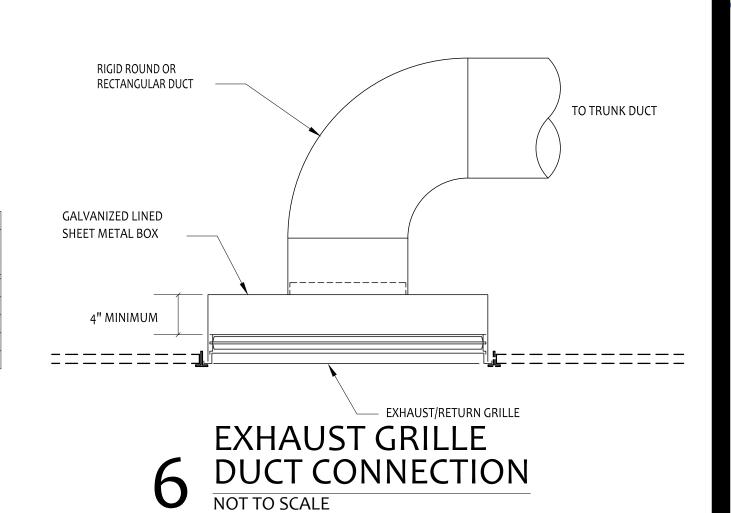
PROVIDE ROUND ELBOW

WHEN SHOWN ON PLANS

ROD OR LINKAGE



CONDENSATE DRAIN TRAP



TO ROOF DRAIN, OR AS

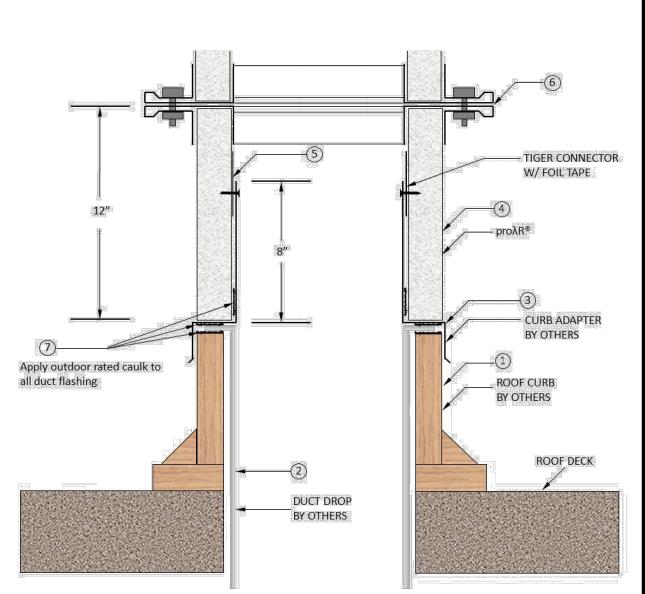
INDICATED ON PLANS

Duct drop by others – as specified by engineer Curb adapter by others – as specified by engineer Pro-R® starter piece – install over curb adapter flange

Roof curb by others – as specified by engineer

Install tiger equipment connector w/ teeth into phenolic w/ flat side overlapping metal sleeve. Cover tiger connector with foil tape. Screw through curb adapter flange into tiger connector. 6 Pro-R® field joint – install as specified by manufacturer

(7) Apply outdoor rated caulk to all duct flashing



10 CURB CONNECTION DETAIL NOT TO SCALE

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HVAC DETAILS

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	AIR DISTRIBUTION DEVICES SCHEDULE (BASIS OF DESIGN)												
MARK	MANUFACTURER	MODEL	TYPE 1	MAX AIR FLOW	EXT. STATIC PRESSURE	THROW	NECK SIZE	PANEL SIZE	MAX NOISE	FINISH	ACCESSORIES	REMARKS	
				CFM	IN. OF H ₂ O	FEET ²	INCHES	INCHES	CRITERIA				
D1	KRUEGER	5SHR-04	SURFACE	300	0.07	20	8"Ø	18x18	22	WHITE	-	3	
E1	KRUEGER	EGC5	SURFACE	900	0.02	-	10"Ø	18x18	20	WHITE	PF,SR	4	

ACCESSORIES:

PF - 58PF ALUMINUM PLASTER FRAME SR - SQUARE TO ROUND ADAPTER

REMARKS/NOTES:

- 1. REFER TO ARCHITECTURAL PLANS FOR CEILING TYPES AND MOUNTING REQUIRED.
- 2. AT TERMINAL VELOCITY = 50FPM
- 3. FULL LOUVER FACE 4. REFER TO PLAN FOR DUCT CONNECTION SIZE

UCTLESS SPLIT SYSTEMS (BAS

	DUCTLESS SPLIT SYSTEMS (BASIS OF DESIGN)																							
MA	ARK	SERVES	IN	IDOOR MOU	JNTING T		COOLING CAPACITY	HEATING CAPACITY	FAN DATA	OSA		ELEC	TRICAL I	DATA		SEER2	HSPF2	NUMBER OF INDOOR UNITS	WEIGH	IT (LB.)	MANUFACTURER	МО	DEL	REMARKS
INDOOR	OUTDOOR	32.11423	WALL	CEILING CASSETTE	CEILING SUSPENDED	CONCEALED	(11011)	(MBH) @17°F	MAX CFM	CFM	VOLT	ф	RLA	MCA	МОСР	JEERE	113112	PER OUTDOOR UNITS	INDOOR	OUTDOOR	W W W W W W W W W W W W W W W W W W W	INDOOR	OUTDOOR	NEW THIS
MSI-1	MSO-1	N.G. EQUIPMENT (27A)	Х	-	-	-	12,625	17,061	459	-	230	1	7.8	10	15	23.2	10.2	1	18.3	74.1	LG	LSN090HSV5	LSU090HSV5	1,2,3,4,5

REMARKS:

- 1. SIMPLE CONTROLLER (PREMTCOOU)
- 2. INSULATED REFRIGERANT LINE SET
- 3. DISCONNECT SWITCH
- 4. CONDENSATE PUMP 5. OUTDOOR UNIT PROVIDES POWER TO INDOOR UNIT

	DEDICATED OUTSIDE AIR WITH ENERGY RECOVERY ROOFTOP UNIT SCHEDULE																																					
			AIR FL	AIR FLC OW INFO.	W INFO. STATIC P	RESSUR	E NF	T CAPACI	ITY	ı	COOLING AIR	INFO. TEMP. (DE	.G. F.)		CAP	HEATII PACITY (MBH)	NG INFO. AIR TEMF	P. (DEG. F.)	SUPPLY F	TOM NA	TOR INFO.	EXHAUST FAI	MOTOR	INFO.	EFFICIENCY ((%)	COOLI	ING MODE	ENERGY R TEMPERAT	<u>ECOVERY W</u> URES		EATING MOD	E TEMPERAT	URES	FLECT	DICAL INFO	-117	
MARK	MANUFACTURER	MODEL	(CFM	(IN.	W.C.)		(MBH)(2)		NTERING	ENTERINC	LEAVING	LEAVING WFT	SEE	R/	PUT OUTPUT	ENTERING	. I FAVING	CEM B L	р н	D RDM	CEM RHD	нр	RDM	SUMM. WI	NT E	OA DB/EWB I	RA EDB/EWB	EA LDB/LWB	SA LDB/LWB	OA EDB/EW	RA B EDB/EWB	EA LDB/LWB	SA LDB/LW		RICAL INFO. WEI	ACCESSORIE:	REMARI
			SUPPLY	OUTSIDE AIR	EXTERNA (1)	L TOTA (4)	SENSI	BLE TO	DTAL D	RY BULB	WET BULE	BULB(3)	BULB(3) AMBIENT LE	INI I	01 0011 01	LIVILIVIIV	LLAVING	CI WI D.I		11. 11. 171	CIWI B.II.I	11.1 .	111 111	JOININI. WI	NI.	°F	°F	°F	°F	°F	°F	°F	°F	V/PH	MCA MOCP LE	S.	
RTU-1	AAON	RQ-004	1100	1100	0.5/0.5	2.6/1.	5 31.1/4	ļ2.5 48. ₁	1/71.3	83.4	68.7	55.5	53.9	95 15.	7 10	00 81	40.0	110.7	1100 0.8	36 2	1733	1200 0.49	1	1616	52 5	2	95/75	74/62	84.1/68.3	83.4/68.7	5/5	72/59	39.8/38.8	40.0/37.	230/3	46 50 16	CO, DP, DS, DW, E HC, HGR, HPC, M OD, SD, SF, TE, T TXV, UC, VSC, V	G1, SC

ACCESSORIES:

- CO CONVENIENCE OUTLET
- DP STAINLESS STEEL DRAIN PAN
- DS DISCONNECT SWITCH DW - SOLID 2" DOUBLE WALL CONSTRUCTION
- EF EXHAUST FAN ECM WITH BACKWARD CURVED PLENUM FAN F - 2" PLEATED MERV 8 OUTDOOR AIR AND RETURN AIR FILTERS
- HC HIGH CONDENSATE LEVEL SWITCH
- HGR MODULATING HOT GAS REHEAT
- HPC ECM CONDENSER RAN/HEAD PRESSURE CONTROL
 MG1 STAINLESS STEEL FURNACE MODULATING GAS HEAT (MINIMUM 8.3:1 TURNDOWN)
- OD 2-POSITION OUTDOOR AIR DAMPER

SD - RETURN AIR SMOKE DETECTOR

- SF SUPPLY FAN ECM WITH BACKWARD CURVED PLENUM FAN
 TSC REMOTE TOUCH SCREEN CONTROLLER WITH ROOM TEMPERATURE SENSOR AND ROOM HUMIDITY SENSOR
- TXV THERMAL EXPANSION VALVE
- UC UNIT CONTROLS SPACE TEMPERATURE AND HUMIDITY
- TE TOTAL ENERGY WHEEL
- W FACTORY STARTUP. 25 YEAR HEAT EXCHANGER WARRANTY. 5-YEAR COMPRESSOR WARRANTY. TWO YEAR PARTS WARRANTY, ONE YEAR LABOR WARRANTY AND REFRIGERANT LOSS WARRANTY. VSC - VARIABLE CAPACITY SCROLL COMPRESSOR

REMARKS:

- 1. STATIC PRESSURE EXTERNAL TO UNIT SUPPLY/EXHAUST.
- 2. MECHANICAL COOLING CAPACITY/EQUIVALENT COOLING CAPACITY WITH ENERGY RECOVERY.
- 3. UNIT LEAVING AIR TEMPERATURE.
- 4. UNIT TOTAL STATIC PRESSURE SUPPLY/EXHAUST.

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**





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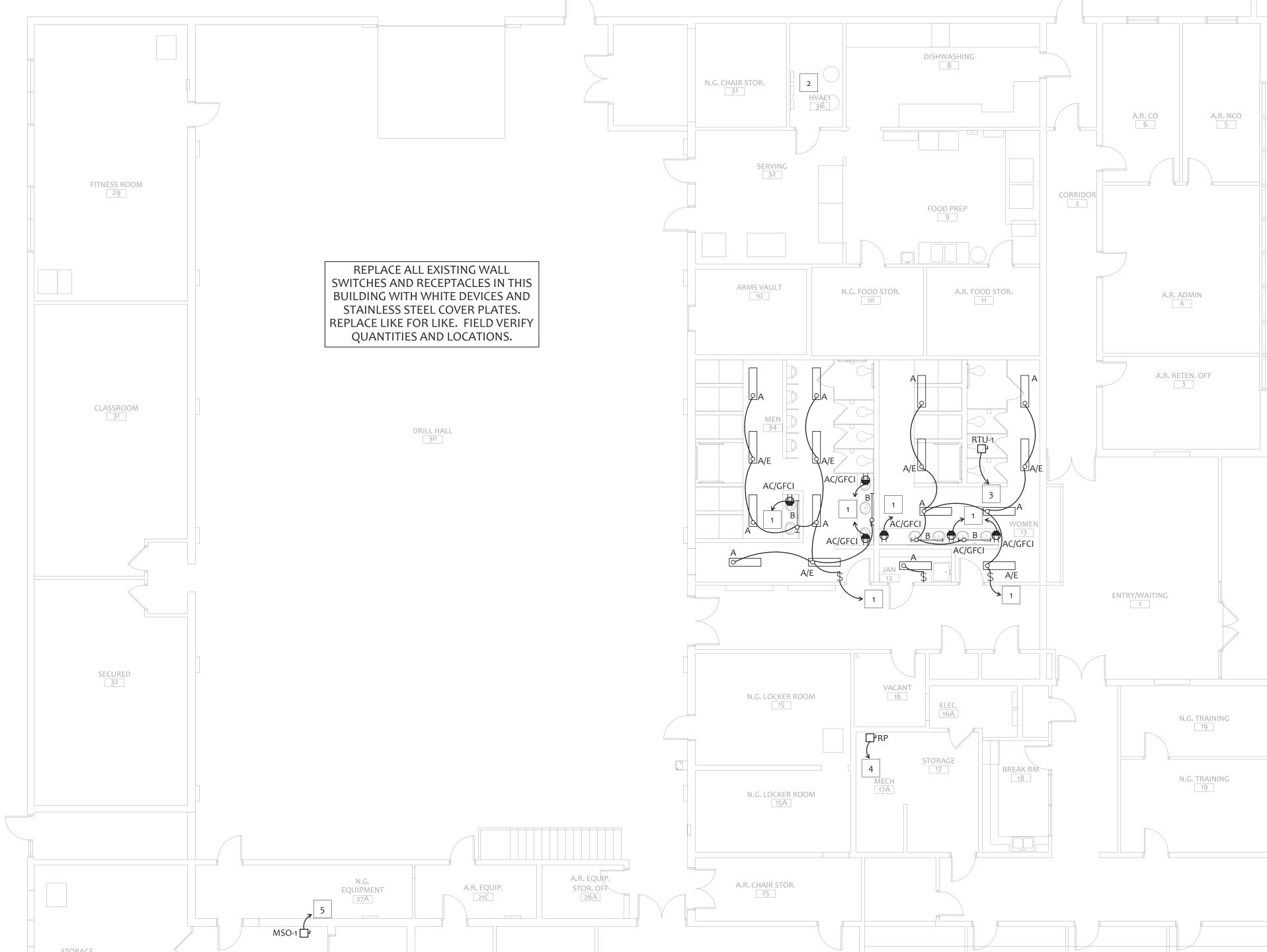
HVAC SCHEDULES

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- CIRCUIT TO A 120V 20A-1P BREAKER. THERE ARE EXISTING CIRCUITS IN THE AREA THAT SHOULD BE USED FIRST.
- 2 LOCATION OF EXISTING ELECTRICAL PANELS
- CIRCUIT TO A 240V 50A-3P BREAKER ON PANEL "PP". E.C. TO FIELD VERIFY PANEL "PP" TOTAL LOAD PRIOR TO PLACING NEW BREAKER. IF THE PANEL IS NOT SUFFICIENT FOR NEW BREAKER E.C. TO COORDINATE WITH ELECTRICAL ENGINEER FOR PLACEMENT OF NEW PANEL AND BREAKER LOCATION. COORDINATE POWER REQUIREMENTS WITH MECHANICAL CONTRACTOR AND EQUIPMENT.
- 4 COORDINATE POWER REQUIREMENTS FOR WATER HEATER RECIRC PUMP WITH PLUMBING CONTRACTOR AND EQUIPMENT. CIRCUIT TO A 120V 20A-1P BREAKER.
- COORDINATE POWER REQUIREMENTS FOR MSO-1 WITH MECHANICAL CONTRACTOR AND EQUIPMENT. CIRCUIT TO A 230V 20A-2P BREAKER. MSI-1 POWERED BY MSO-1.



SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
AC/GFCI	ABOVE COUNTER GROUND-FAULT CIRCUIT-INTERRUPTER
\$	SINGLE POLE SWITCH
	DISCONNECT SWITCH

LUMINAIRE SC	HEDULE								
CALLOUT	SYMBOL	DESCRIPTION	MODEL	LAMP	BALLAST	MOUNTING	INPUT WATTS	VOLTS	NOTES
A	0	4' SURFACE MOUNT LED WRAPAROUND	LITHONIA: STL4 30L EZ1 LP835	(1) 26.7W LED, 3500K CCT	LED DRIVER	SURFACE	26.7	120V 1P 2W	EQUALS ALLOWED - COOPER, WILLIAMS, PEERLESS, LITHONIA, DAY-BRITE, CURRENT, LSI, COLUMBIA
A/E	0	4' SURFACE MOUNT LED WRAPAROUND W/EMERGENCY BATTERY	LITHONIA: STL4 30L EZ1 LP835 EL14L	(1) 26.7W LED, 3500K CCT	LED DRIVER	SURFACE	26.7	120V 1P 2W	EQUALS ALLOWED - COOPER, WILLIAMS, PEERLESS, LITHONIA, DAY-BRITE, CURRENT, LSI, COLUMBIA
В	Ю——	4' INDIRECT WALL MOUNT LED W/ MOTION SENSOR	WILLIAMS: AIWSLD-4-L11/835-DIM-UNV	(1) 37.5W LED, 3500K CCT	LED DRIVER	WALL	37.5	120V 1P 2W	EQUALS ALLOWED - COOPER, WILLIAMS, PEERLESS, LITHONIA, DAY-BRITE, CURRENT, LSI, COLUMBIA
PL-1	O—	PREVAIL AREA AND ROADWAY LUMINAIRE(2) 70 CRI, 4000K LEDS AND TYPE IV OPTICS, W/ 20' POLE	COOPER LIGHTING SOLUTIONS - LUMARK, PRV-C40-D-UNV-T4-BZ	(2) 131W	ELECTRONIC	POLE	131	120V 1P 2W	FIXTURE CHOSEN FOR BASE PHOTOMETRICS AND DESIGN, EQUALS ARE ALLOWED. CONFIRM FINISH WITH ARCHITECT AND OWNER
XL-1	<u>—</u>	EXISTING LIGHT FIXTURE		-	ELECTRONIC	CEILING		120V 1P 2W	MOUNTING HEIGHTS AND FIXTURE TYPES TO BE FIELD VERIFIED
XL-2	œ	EXISTING LIGHT FIXTURE		-	ELECTRONIC	CEILING		120V 1P 2W	MOUNTING HEIGHTS AND FIXTURE TYPES TO BE FIELD VERIFIED

ELECTRICAL PLAN

1/8" = 1'-0"

JENNIFER WINSLOW, PE, LLC
MECHANICAL, ELECTRICAL & PLUMBING DESIGN
608 S. ASSISI WAY
REPUBLIC, MO 65738
(417) 496-2123

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR





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CHECKED BY: BB
DESIGNED BY: JW

SHEET TITLE:

ELECTRICAL PLAN

SHEET NUMBER:

E-101



E-102 EXISTING ELECTRICAL SITE LIGHTING PLAN

| E-102 | 1" = 30'-0"

GENERAL NOTES

LUMEN OUTPUT FROM EXISTING PARKING LIGHT FIXTURES IS ESTIMATED BASED ON AVAILABLE INFORMATION. EXISTING CONDITIONS MAY VARY.

JENNIFER WINSLOW, PE, LLC
MECHANICAL, ELECTRICAL & PLUMBING DESIGN
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CAD DWG FILE:	T2238-01 6297 8136297001-E-1
DRAWN BY:	RO
CHECKED BY:	BB
DESIGNED BY:	JW

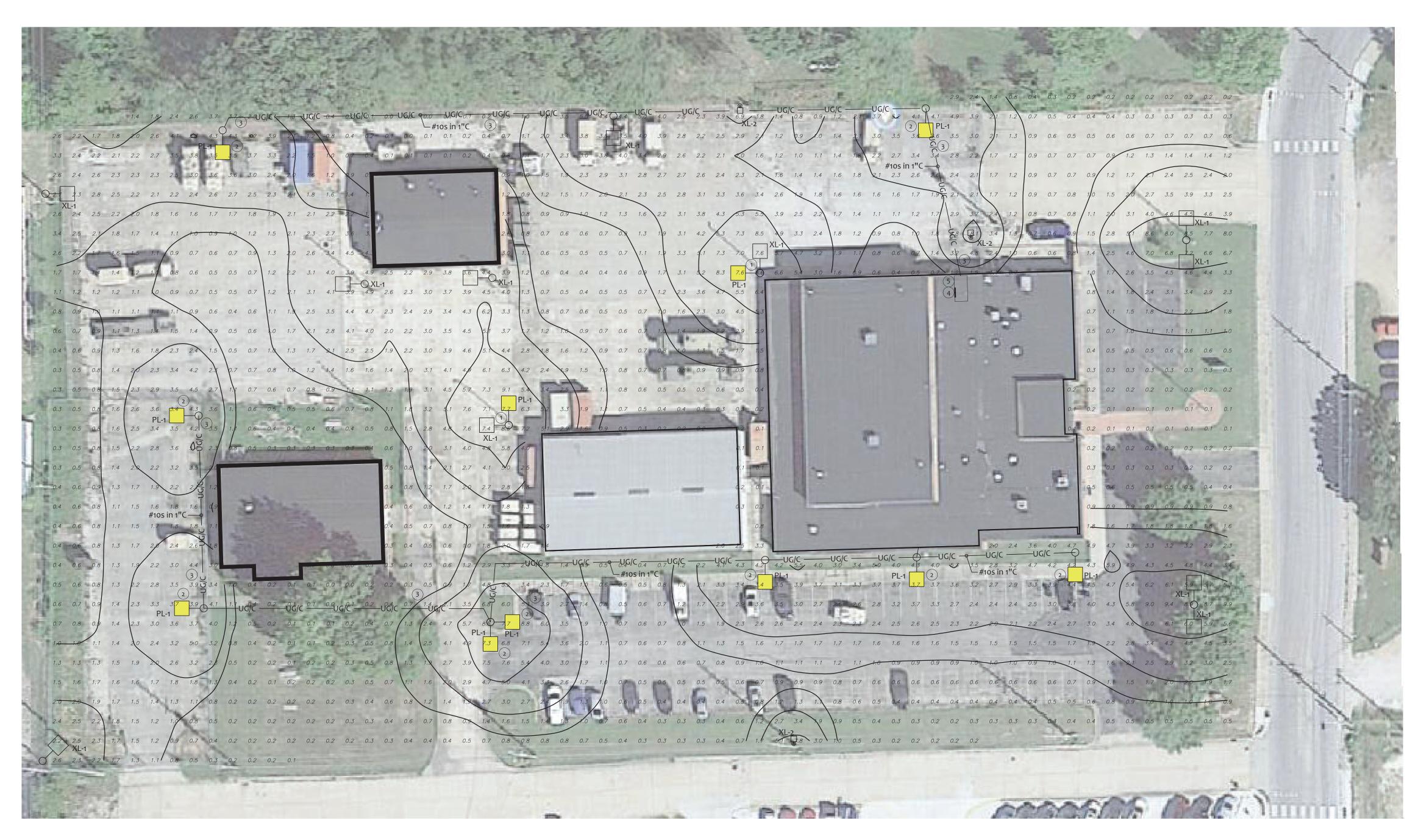
SHEET TITLE:

ELECTRICAL
EXISTING SITE
LIGHTING

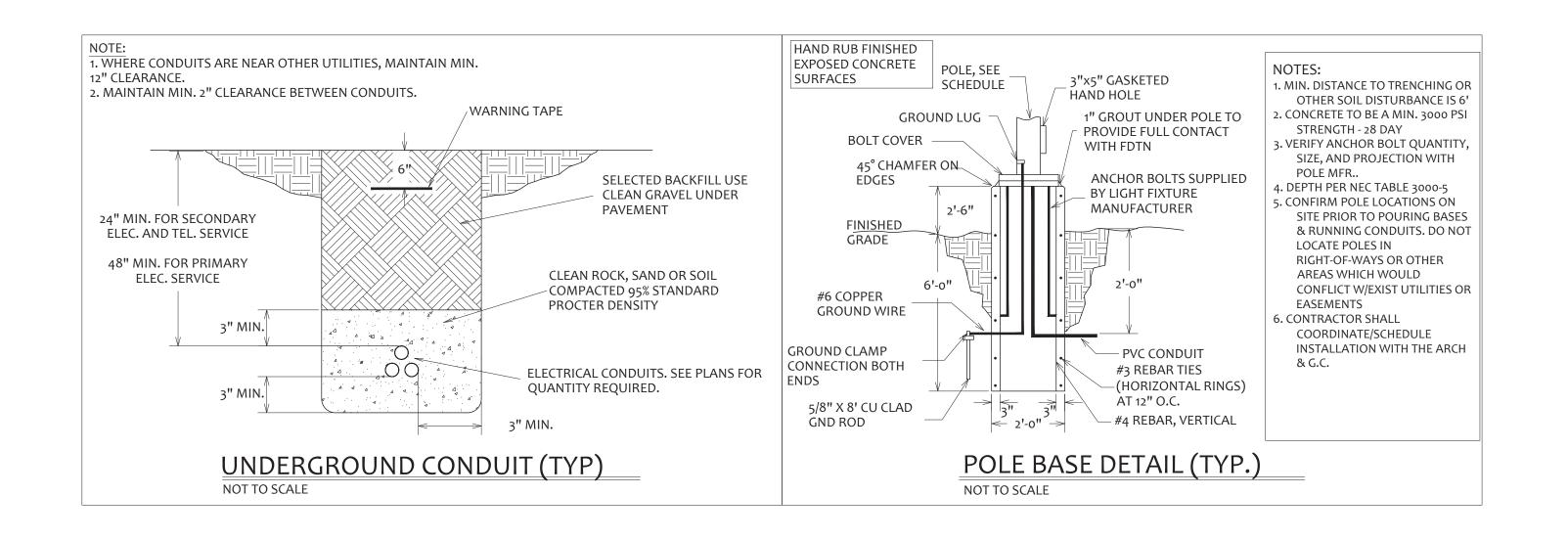
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KEYED NOTES

- 1 EXISTING LIGHT POLE WITH (1) ONE EXISTING LIGHT FIXTURE (XL-1). ADD (1) ONE NEW LIGHT FIXTURE HEAD (PL-1). MATCH MOUNTING HEIGHT OF EXISTING LIGHT FIXTURE. CONNECT TO EXISTING LIGHTING CIRCUIT. FIELD VERIFY MOUNTING REQUIREMENTS.
- NEW LIGHT FIXTURE AND POLE. FIXTURE MOUNTED AT 20'. E.C. TO ROUTE NEW POWER, CONDUIT, WIRES, ETC. FROM READINESS BUILDING MAIN ELECTRICAL ROOM. FIELD VERIFY BREAKER SPACE AND CAPACITY.
- E.C. TO TRENCH UNDERGROUND 1" CONDUIT AS NEEDED FROM NEW POLE LIGHTS TO READINESS BUILDING THEN ROUTE INTERNALLY TO MAIN ELECTRICAL ROOM. AVOID BLACKTOP/CONCRETE WHERE POSSIBLE. WHEN NOT POSSIBLE E.C. IS RESPONSIBLE FOR REPAIR OF BLACKTOP/CONCRETE TO AS NEW CONDITION.
- 4 READINESS BUILDING MAIN ELECTRICAL ROOM
- PROVIDE NEW PHOTOCELL AND TIMECLOCK CONTROLS FOR ALL NEW AND EXISTING EXTERIOR PARKING LOT LIGHTS. PROVIDE LIGHTING CONTACTOR AS REQUIRED. TIMECLOCK LOCATED NEAR EXISTING ELECTRICAL PANELS. FIELD VERIFY PHOTOCELL LOCATION ON NORTH SIDE OF BUILDING.
- DESIGN INDICATED IS FOR BIDDING PURPOSES ONLY AND MAY REQUIRE ADJUSTMENTS BY THE ENGINEER BASED ON THE FINAL FIXTURE SELECTION AND FIELD CONDITIONS.
- THE PHOTOMETRIC ANALYSIS ON THIS SHEET IS BASED ON A COMBINATION OF DATA FOR EXISTING FIXTURES AND PROPOSED FIXTURES THAT HAVE BEEN UTILIZED AS A DESIGN BASIS. ALTERNATE FIXTURES WITH EQUIVALENT OUTPUT ARE ACCEPTABLE SUBJECT TO THE CONDITIONS OF THE CONTRACT. THE GENERAL CONTRACTOR IS RESPONSIBLE, AS A CONDITION OF THE CONTRACT, TO PERFORM A PHOTOMETRIC ANALYSIS OF ANY PROPOSED CHANGES PRIOR TO INSTALLATION.

GENERAL NOTES

LUMEN OUTPUT FROM EXISTING PARKING LIGHT FIXTURES IS ESTIMATED BASED ON AVAILABLE INFORMATION. EXISTING CONDITIONS MAY VARY.

JENNIFER WINSLOW, PE, LLC MECHANICAL, ELECTRICAL & PLUMBING DESIGN

608 S. ASSISI WAY REPUBLIC, MO 65738 (417) 496-2123

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**





ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN **AND CONSTRUCTION**

OFFICE OF

MISSOURI NATIONAL GUARD DEPT. OF ADJUTANT GENERAL

ROOF, TUCKPOINT REPAIR & INTERIOR RENOVATION ROLLA READINESS CENTER

8136297001

ROLLA READINESS CENTER 201 FAIRGROUNDS ROAD ROLLA, MISOURI 65401

PROJECT # T2238-01

ASSET #

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REVISION:
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CAD DWG FILE	: T2238-01 6297 8136297001-E-
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ELECTRICAL SITE LIGHTING PLAN (ALTERNATE 1)

FIRE ALARM GENERAL NOTES

- A THE FIRE ALARM SYSTEM SHALL BE PER THE REQUIREMENTS OF THE LATEST ADOPTED VERSION OF NFPA, ADA, IBC, AND ANY APPLICABLE LOCAL CODES AND ORDINANCES.
- B FIRE ALARM SYSTEM SHALL BE DESIGNED BY A FIRE ALARM SYSTEM CONTRACTOR. VERIFY DEVICES AND LOCATIONS SHOWN WITH FIRE ALARM CONTRACTOR AND ADJUST TO MEET ALL CODE REQUIREMENTS.
- COORDINATE WORK WITH WORK OF ALL OTHER TRADES ON THE PROJECT.
- D PROVIDE ADDRESSABLE FIRE ALARM CONTROL PANEL AND DEVICES WITH AN EMERGENCY VOICE SYSTEM.
- E PLANS ARE DIAGRAMMATIC AND DO NOT SHOW THE EXACT WIRING CONNECTIONS REQUIRED, REFER TO THE MANUFACTURER'S REQUIREMENTS FOR WIRING AND CONNECTION REQUIREMENTS.
- F DO NOT INSTALL SMOKE DETECTORS WITHIN 36" OF A CEILING FAN OR SUPPLY AIR
- G COORDINATE POWER REQUIREMENTS FOR FIRE ALARM SYSTEM WITH ELECTRICAL
- CONTRACTOR.

 H PROVIDE REMOTE KEYED TEST STATIONS FOR DUCT SMOKE DETECTORS IN AN ACCESSIBLE LOCATION. COORDINATE LOCATIONS WITH MECHANICAL CONTRACTOR

AND OWNER.

- PROVIDE PROTECTION FROM DUST AND DEBRIS FOR SMOKE DETECTORS DURING CONSTRUCTION. REMOVE PROTECTIVE DEVICES PRIOR TO OCCUPANCY BY THE OWNER.
- J COORDINATE LOCATION OF FIRE ALARM DEVICES WITH EXISTING STRUCTURE, LIGHTS, AND HVAC AIR DEVICES. FIELD VERIFY.

#	KEYED NOTES
1	COORDINATE LOCATION OF FIRE ALARM CONTROL PANEL WITH EXISTING STRUCTURE AND OWNER. FIELD VERIFY.

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
FĄCP	FIRE ALARM CONTROL PANEL
\$	SMOKE DETECTOR
ÞØ	SPEAKER/STROBE
×	STROBE
F	MANUAL PULL STATION







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FIRE ALARM
PLAN

SHEET NUMBER:

FA-10

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