CENTRAL ARKANSAS WATER
JAMES T. HARVEY
ADMINISTRATION BUILDING
RENOVATIONS

221 E Capitol Ave, Little Rock, AR 72202

DESIGN DEVELOPMENT

March 28, 2025

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RUSS FABOR, A.I.A.

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Project Name
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BUILDING CODE ANALYSIS

PROJECT DESCRIPTION
INTERNATIONAL BUILDING CODE 2012 ED
ARKANSAS FIRE PREVENTION CODE 2012 ED
ARKANSAS GAS CODE
ARKANSAS STATE PLUMBING AND GAS CODE
ARKANSAS MECHANICAL AND GAS CODE
ARKANSAS ELECTRICAL CODE
NFPA 101 THE LIFE SAFETY CODE 2012 ED

1. OCCUPANCY CLASSIFICATION:
   - 1.1 MAIN OCCUPANCY: **BUSINESS; GROUP B** (SECTION 304)
   - 1.2 SECONDARY OCCUPATION: **N/A**
   - **BUILDING IS SPRINKLED**

2. ALLOWABLE HEIGHTS AND AREAS:
   TYPE-IIB CONSTRUCTION
   CONSTRUCTION TYPE _IIB_
   - 2.1 ALLOWABLE HEIGHT: **(65 FT. (5 STORIES)** (TABLE 503)
   - 2.2 ALLOWABLE AREA PER FLOOR: **19,000 sq.ft.** (TABLE 503)
   - 2.3 HEIGHT MODIFICATIONS: (SECTION 506)
   - 2.4 AREA MODIFICATIONS: **71,250 sq.ft.**
   - 2.5 MAXIMUM ALLOWABLE BUILDING (TABLE 503)

3. ACTUAL BUILDING CHARACTERISTICS
   - 3.1 SQUARE FOOTAGE*
     - 3.1.1 FIRST FLOOR: **2,656sq.ft. (CLASSROOM RENOV.)**
     - 3.1.2 SECOND FLOOR: **N/A** (SECTION 503.1)
     - *(*MEASURED TO INSIDE FACE OF EXTERIOR WALL)*
   - 3.2 BUILDING HEIGHT: **N/A** (SECTION 503.1)

4. FIRE RESISTANCE RATINGS FOR BUILDING ELEMENTS **TYPE-2B CONSTRUCTION** (TABLE 601)
   - 4.1 STRUCTURAL FRAME **0 HR [RATED/NON-RATED]** (TABLE 601)
   - 4.2 BEARING WALLS
     - 4.2.1 EXTERIOR **2 HR [RATED/NON-RATED]** (TABLE 601)
     - 4.2.2 INTERIOR **0 HR [RATED/NON-RATED]** (TABLE 601)
   - 4.3 EXTERIOR NON-BEARING WALLS & PARTITIONS **0 HR [RATED/NON-RATED]** (TABLE 602)
   - 4.4 INTERIOR NON-BEARING WALLS & PARTITIONS **0 HR [RATED/NON-RATED]** (TABLE 601)
   - 4.5 FLOOR CONSTRUCTION **0 HR [RATED/NON-RATED]** (TABLE 601)
   - 4.6 ROOF CONSTRUCTION **0 HR [RATED/NON-RATED]** (TABLE 601)

5. FIRE RESISTANCE RATING OF EXTERIOR WALLS** (TABLE 602 & 705.8 AND SECTION 705.8)
   *(**SEE TABLES FOR CONSTRUCTION TYPES AND OCCUPANCY TYPES)*
   - 5.1 NORTH WALL **> 30FT TO ASSUMED PROPERTY LINE** **0 HR - NO LIMIT ON UNPROTECTED OPENINGS**
   - 5.2 SOUTH WALL **> 30FT TO ASSUMED PROPERTY LINE** **0 HR - NO LIMIT ON UNPROTECTED OPENINGS**
   - 5.3 WEST WALL **> 30FT TO ASSUMED PROPERTY LINE** **0 HR - NO LIMIT ON UNPROTECTED OPENINGS**
   - 5.4 EAST WALL **> 30FT TO ASSUMED PROPERTY LINE** **0 HR - NO LIMIT ON UNPROTECTED OPENINGS**

6. GENERAL MEANS OF EGRESS REQUIREMENTS
   - 6.1 OCCUPANCY COUNT (VARIES) (TABLE 1004.1.2)
     - 6.1.1 BUSINESS AREAS CLASSROOM 105 **(1,077 SF @ 100 SF/PERSON GROSS)**
       OCCUPANTS: _11_
     - 6.1.2 BUSINESS AREAS CLASSROOM 109 **(1,579 SF @ 100 SF/PERSON GROSS)**
       OCCUPANTS: _16_

   TOTAL BUILDING OCCUPANCY:
   - 6.2 MAXIMUM DISTANCE OF TRAVEL: **SPRINKLED 300 FT** (TABLE 1016.2)
   - 6.3 EGRESS WIDTH PER OCCUPANT
     - 6.3.1 STAIRWAYS: **0.3" / OCCUPANT** (SECTION 1005.3.1)
     - 6.3.2 OTHER EGRESS COMPONENTS: **0.2" / OCCUPANT** (SECTION 1005.3.2)
   - 6.4 CORRIDOR FIRE-RESISTANCE RATING: **NON-RATED - 0 HR** (TABLE 1018.1)
   - 6.5 MAXIMUM DEAD-END CORRIDOR: **50 FT.** (SECTION 1018.4)
   - 6.6 MAXIMUM OCCUPANCY LOAD WITH ONE MEANS OF EGRESS: _49_ (TABLE 1015.1)

CEILING LEGEND

-DELETE NOT USED-

- PENDANT LIGHT FIXTURE
- LINEAR RECESSED LIGHT FIXTURE
- CHAIN HUNG STRIP LIGHT
- LINEAR PENDANT LIGHT FIXTURE
- 2' x 4' FLUORESCENT LIGHT FIXTURE
- WALL-MOUNTED LIGHT FIXTURE
- RECESSED DOWN LIGHT
- OVERHEAD PROJECTOR
- GYP. BOARD CEILING
- EXHAUST HOOD
- SUPPLY AIR
- RETURN AIR
- EXIT SIGN - HATCH INDICATES EXIT
- SPRINKLER
- SD — SMOKE DETECTOR
- HD — HEAT DETECTOR

FLOOR PLAN LEGEND

- 0 — COLUMN GRID
- 1 / A101 SIM — DETAIL NUMBER SHEET LOCATION
- 1 / A101 — VIEW NUMBER / SHEET LOCATION
- 1 / A101 SIM — SECTION NUMBER SHEET LOCATION
- Level Name / Elevation — REFERENCE ELEVATION
- 1i / 1'-0" A.F.F. — CEILING MATERIAL CEILING HEIGHT
- ROOM / 100 — ROOM NAME / ROOM NUMBER
- A100 A1 — ELEVATION TAG
- 1A — PARTITION TYPE
- TA-1 — TOILET ACCESSORY TYPE
- 101 — DOOR NUMBER
- AL-XX — FRAME TYPE
- 1 — REVISION TAG
- FEC — FIRE EXTINGUISHER CABINET
- F.E. — FIRE EXTINGUISHER
- B.B. — BULLETIN BOARD
- C.G. — CORNER GUARD

MATERIALS LEGEND

- CONCRETE
- WOOD PANELING (ELEVATION)
- SOIL/ EARTH
- GYP. BOARD
- STEEL / METAL
- PLYWOOD OR EXTERIOR SHEATHING
- RIGID INSULATION
- BATT INSULATION
- BRICK VENEER

FLOORING LEGEND

- 12" X 12" / 12" x 24" / 18" x 18" CERAMIC TILE - COLOR A
- 12" X 24" CERAMIC TILE - COLOR B
- VCT TILE - COLOR A
- VCT TILE - COLOR B
- CARPET TILE
- CG — CORNER GUARD

LIFE SAFETY LEGEND

- I HOUR WALL
- 2 HOUR WALL
- FEC — FIRE EXTINGUISHER CABINET
- EXIT SIGN - HATCH INDICATES DIRECTION

DRAWING ABBREVIATIONS

AB Anchor Bolt
ACS Architectural Cast Stone
ACT Acoustical Ceiling Tile
AD Area Drain
ADD Addendum
ADD'L Additional
ADJ Adjacent
AFF Above Finished Floor
AGGR Aggregate
ALUM Aluminum
ALT Alternate
ANOD Anodized
AP Access Panel
APPROX Approximate
ARCH Architectural
AWP Acoustical Wall Panel
BB Bulletin Board
B.M. Bench Mark
BD Board
BETW Between
BF Backface
BG Bumper Guard
BL Bed Locator
BL Building Line
BLDG Building
BLKG Blocking
BM Beam
BOT Bottom
BR Bumper Rail
BRD Marker Board/ Chalk Board
BRG Bearing
BRK Brick
BSMT Basement
BU ROD Back-Up Rod
BUR Built-Up Roof
BW Bearing Wall
C Compact Parking Space
CDR Card Reader
CEM Cement
CGD Corner Guard
CJ Control Joint
CL Center Line
CLG Ceiling
CLR Clear
CMB Concrete Masonry Base
CMTS Cementitious
CMU Concrete Masonry Unit
COL Column
COMM Communications
CONC Concrete
CONN Connection
CONST Construction
CONT Continuous
COORD Coordinate
CORR Corridor
CPT Carpet
CR Crash Rail
CRJ Construction Joint
CRT Ceramic Tile
CSK Countersunk
CTD Centered
CTR Center
CW Curtain Wall
D Depth
DBA Deformed Bar Anchor
DET Detail
DF Drinking Fountain
DIA Diameter
DIAPH Diaphragm
DIM Dimension
DISP Dispenser
DJ Deflection Joint
DK Desk
DL Dead Load
DN Down
DS Down Spout
DS Dishwasher
DWG Drawing
DWGS Drawings
DWLS Dowels
EA Each
EF Each Face
EIFS Exterior Insulation and Finish System
EJ Expansion Joint
EL Elevation
ELEC Electric
ELEV Elevator
EQ Equal
EQUIP Equipment
ESC Escalator
EW Each Way
EWC Electric Water Cooler
EXP BLT Expansion Bolt
EXT Exterior
FD Floor Drain
FDN Foundation
FE Fire Extinguisher
FEC Fire Extinguisher Cabinet
FF Finish Floor
FHC Fire Hose Cabinet
FIN Finish
FLR Floor
FMH Fume Hoods
FOS Face of Stud
FS Far Side
FT Foot
FTG Footing
FV Field Verify
FVC Fire Valve Cabinet
FXS Fixed Seating
GA Gauge
GALV Galvanized
GB Grade Beam
GDC Ground Concrete
GEN General
GFRC Glass-Fiber Reinforced Concrete
GI Galvanized Iron
GL Glass
GLS Glass Mosaic Tile
GND Ground
GRG Glass- Reinforced Gypsum
GRT Grout
GYP BD Gypsum Board
HB Hose Bib
HDW Hardware
HDWD Hardwood
HK Hook
HM Hollow Metal
HOR Horizontal
HP High Point
HR Hour
HS Headed Stud
HSKP Housekeeping
HT Height
HW Hand Wash
ID Inside Diameter
IM Ice Machine
INSUL Insulation
INT Interior
IPC Interior Paint Color
IPT Interior Paint
JT Joint
K Kips (1000 LB)
KO Knock-Out
KP Kickplate
KPD Keypad
KSP Kips Per Square Foot
L Angle
LAV Lavatory
LG Long
LKB Lockable
LKR Locker
LL Live Load
LLH Long Leg Horizontal
LLV Long Leg Vertical
LOC Location
LP Low Point
LT Light
LVT Luxury Vinyl Tile
LWC Lightweight Concrete
MAS Masonry
MAT'L Material
MAX Maximum
MBL Marble
MECH Mechanical
MEMB Membrane
MFG Manufacturer
MISC Miscellaneous
MO Masonry Opening
MOD BIT Modified Bitumen
MOD Modified
MSL Mean Sea Level
MTL Metal
MW Microwave
N/A Not Applicable
NA Not Available
NIC Not in Contract
NOM Nominal
NS Near Side
NTS Not to Scale
NWC Normal Weight Concrete
OA Over All
OC On Center
OD Outside Diameter
OD Overflow Drain
OFCI Owner Furnished, Contractor Installed
OFOI Owner Furnished, Owner Installed
OH Opposite Hand
OPNG Opening
OPP Opposite
OSF Outside Face
PL Plastic Laminate
PC Precast Concrete
PCF Pounds per Cubic Foot
PCT Porcelain Tile
PENT Penthouse
PL Property Line
PL Plate
PLUMB Plumbing
PLYWD Plywood
PP Push Plate
POL Polished
PORT CEM Portland Cement
PR Pair
PREFAB Prefabricated
PRP Plastic Resin Panel
PSF Pounds per Square Foot
PSI Pounds per Square Inch
PT Point
PTB Porcelain Tile Base
PTD Painted
R Riser
RAD Radius
RAF Rubberized Asphalt Flashing
RAM Rubberized Asphalt Membrane
RAU Rubberized Asphalt Underlayment
RB Rubber Base
RBB Rubber Base
RBT Rubber Tile
RCP Reflected Ceiling Plan
RD Roof Drain
REBAR Reinforcing Bar
RECP Receptacle
REF Refer or Reference
REINF Reinforcing
RELOC Relocate/ Relocated
REQ'D Required
RFVC Recessed Fire Valve Cab
RM Room
RO Rough Opening
SAB Sound Attenuation Blanket
SBC Standard Building Code
SCHED Schedule
SDL Superimposed Dead Load
SECT Section
SHT Sheet
SHWR Shower
SIM Similar
SLC Sealed Concrete
SO Structural Opening
SOG Slab on Grade
SP Stand Pipe
SPA Space or Spacing
SPEC Specification
SQ Square
SSC Solid Surface
SS Stainless Steel
STA Station
STC Sound Transmission Class
STC Stained Concrete
STD Standard
STIFF Stiffener
STIR Stirrup
STL Steel
STRUC Structural
SWC Specialty Wall Covering
SYM Symmetrical
SVL - Sheet Vinyl
SYS System
T Tread
T&B Top and Bottom
TB Twin Bed
TC Top of Curb
TEL Telephone
TEMP Temperature
TH Threshold
THK Thick
TLP Toilet Partition
TLT Toilet
TOB Top of Beam
TOC Top of Concrete
TOF Top of Footing
TOP Top of Parapet
TOS Top of Slab
TOSTL Top of Steel
TRZ Poured Terrazzo
TT Treatment Table
TW Top of Wall
TYP Typical
UNO Unless Noted Otherwise
VAR Varies
VCT Vinyl Composition Tile
VERT Vertical
VEST Vestibule
VIF Verify In Field
VWC Vinyl Wall Covering
W/ With
W/O Without
W Width
W.P. Waterproof(ing)
WD Wood
WDM Wood Millwork
WF Wide Flange
WL Wind Load
WKS Walk Off System
WNB Window Blinds
WP Work Point
WT Whirlpool Tub
WWF Welded Wire Fabric

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DESIGN DEVELOPMENT

Central Arkansas Water
Essential & Exceptional

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Job No. CENTRA24.00
Date March 28, 2025
Title
GENERAL INFORMATION
Sheet No.
G1.00

Project Name
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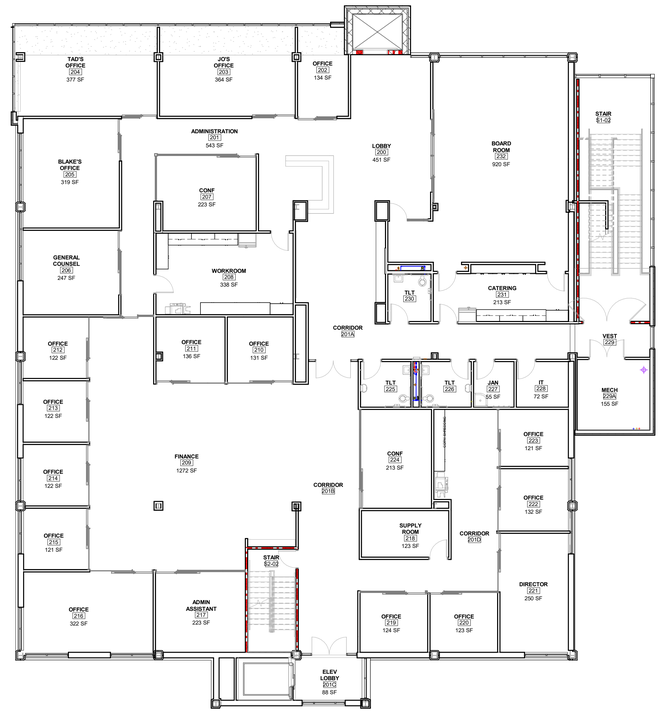
1 LIFE SAFETY - 04 FOURTH FLOOR PLAN
3/32" = 1'-0"

2 LIFE SAFETY - 01 GROUND FLOOR PLAN
3/32" = 1'-0"

3 LIFE SAFETY - 03 THIRD FLOOR PLAN
3/32" = 1'-0"



4 LIFE SAFETY - 02 SECOND FLOOR PLAN
3/32" = 1'-0"

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Job No.
Date CENTRA24.00
Title March 28, 2025

LIFE SAFETY

Sheet No.
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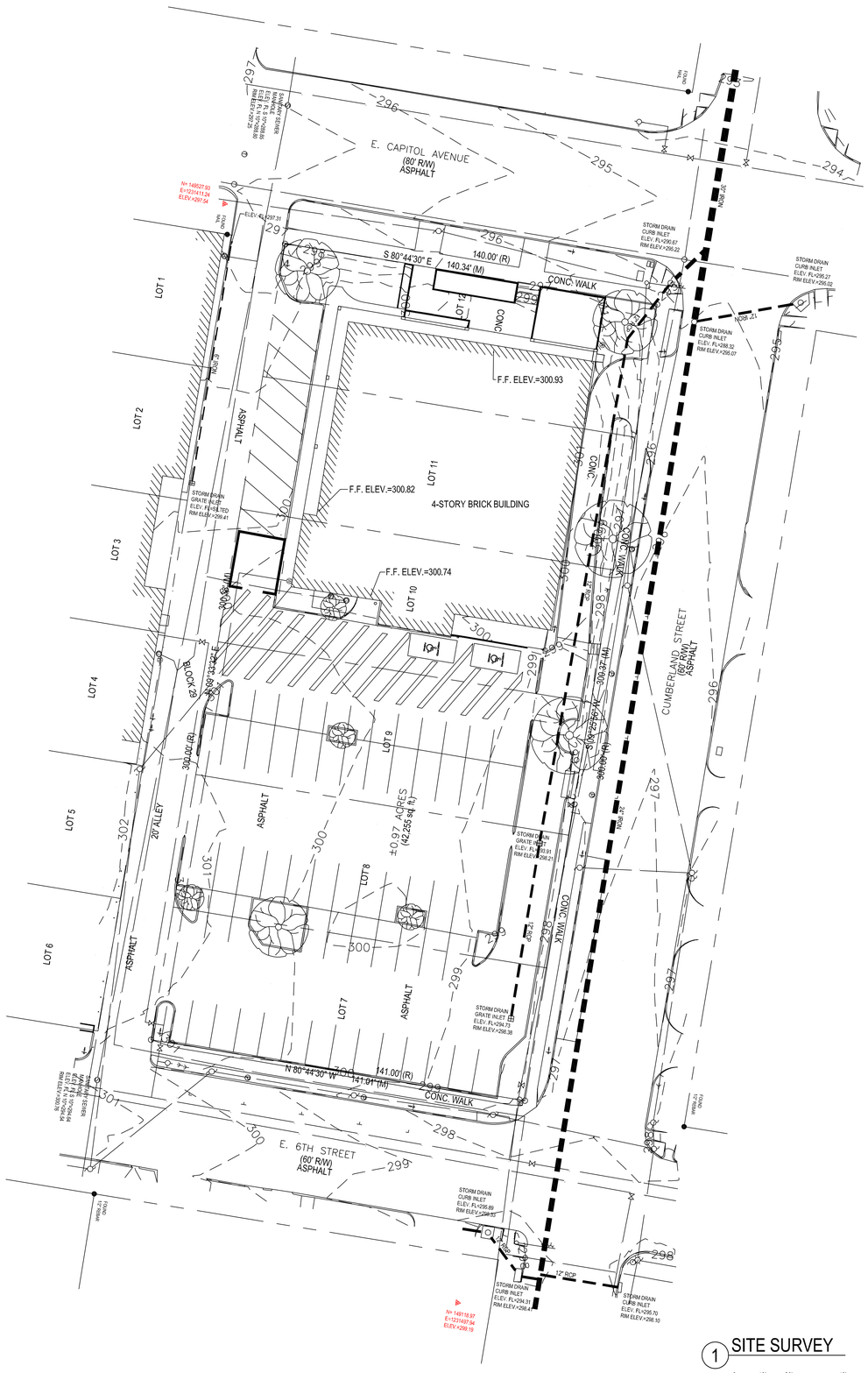

1 SITE SURVEY

0 10' 20' 40'

SCALE:1"=20'

NORTH

LEGEND

●	FOUND MONUMENT
○	SET 1/2" REBAR
△	COMPUTED POINT
	FIRE HYDRANT
	WATER VALVE
	WATER METER
	GAS METER
	GAS VALVE
	POWER POLE
	POWER POLE W/ LIGHT
	GUY WIRE
	LIGHT POLE
	TELEPHONE PEDESTAL
	ELECTRIC METER
	SANITARY SEWER MANHOLE
	SIGN
(M)	MEASURED
(R)	RECORD
WA	WATER LINE
GAS	GAS LINE
OHE	OVERHEAD ELECTRIC
UGT	UNDERGROUND TELEPHONE
UGE	UNDERGROUND ELECTRIC

SITE SURVEY NOTES:

1. THIS SHEET IS TAKEN FROM A SURVEY PROVIDED BY:

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811 Know what's below. 811 before you dig.

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Little Rock, AR 72202
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www.carkw.com

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DESIGN DEVELOPMENT

Central Arkansas Water
Essential & Exceptional

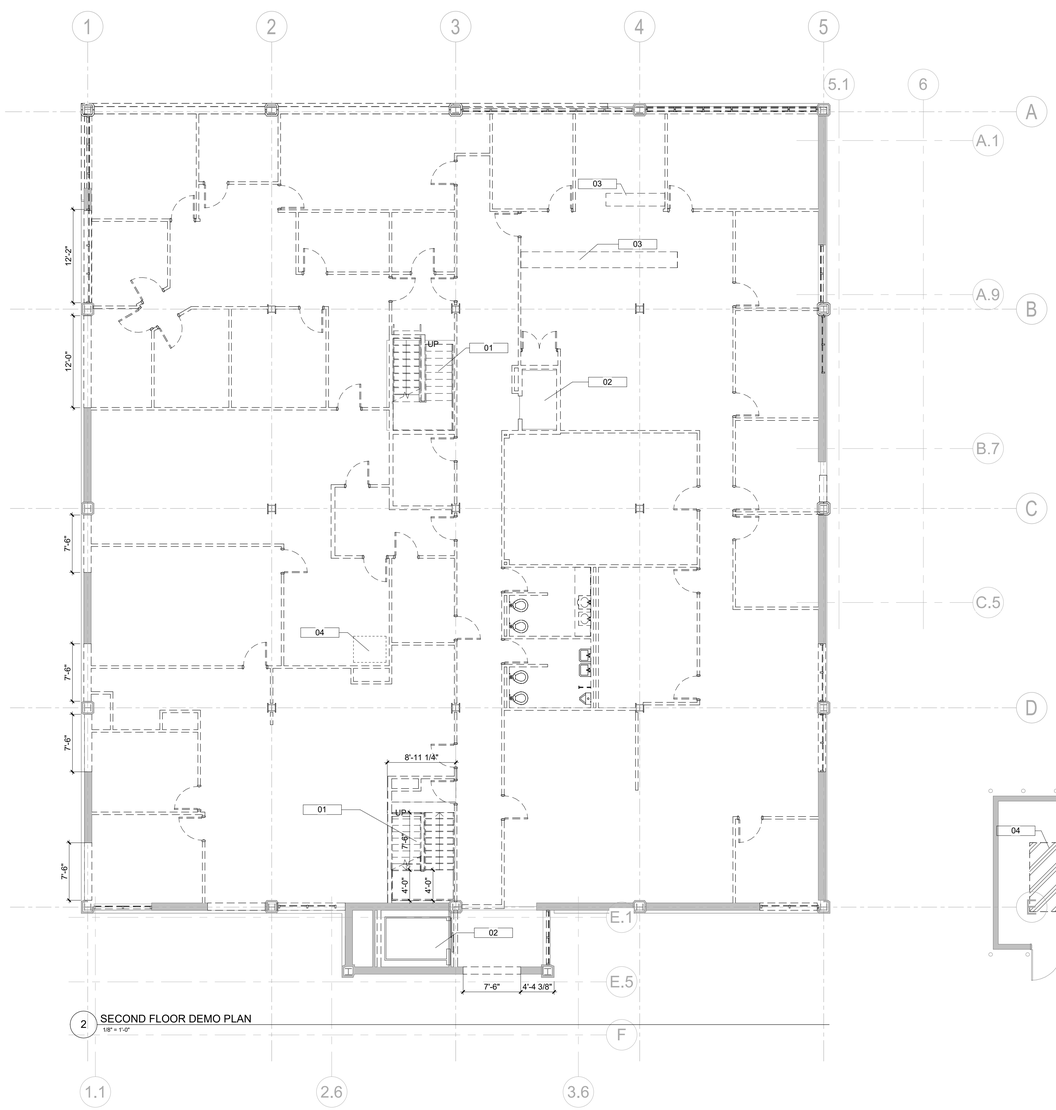
No.	Issue	Date

Job No. CENTRA24.00

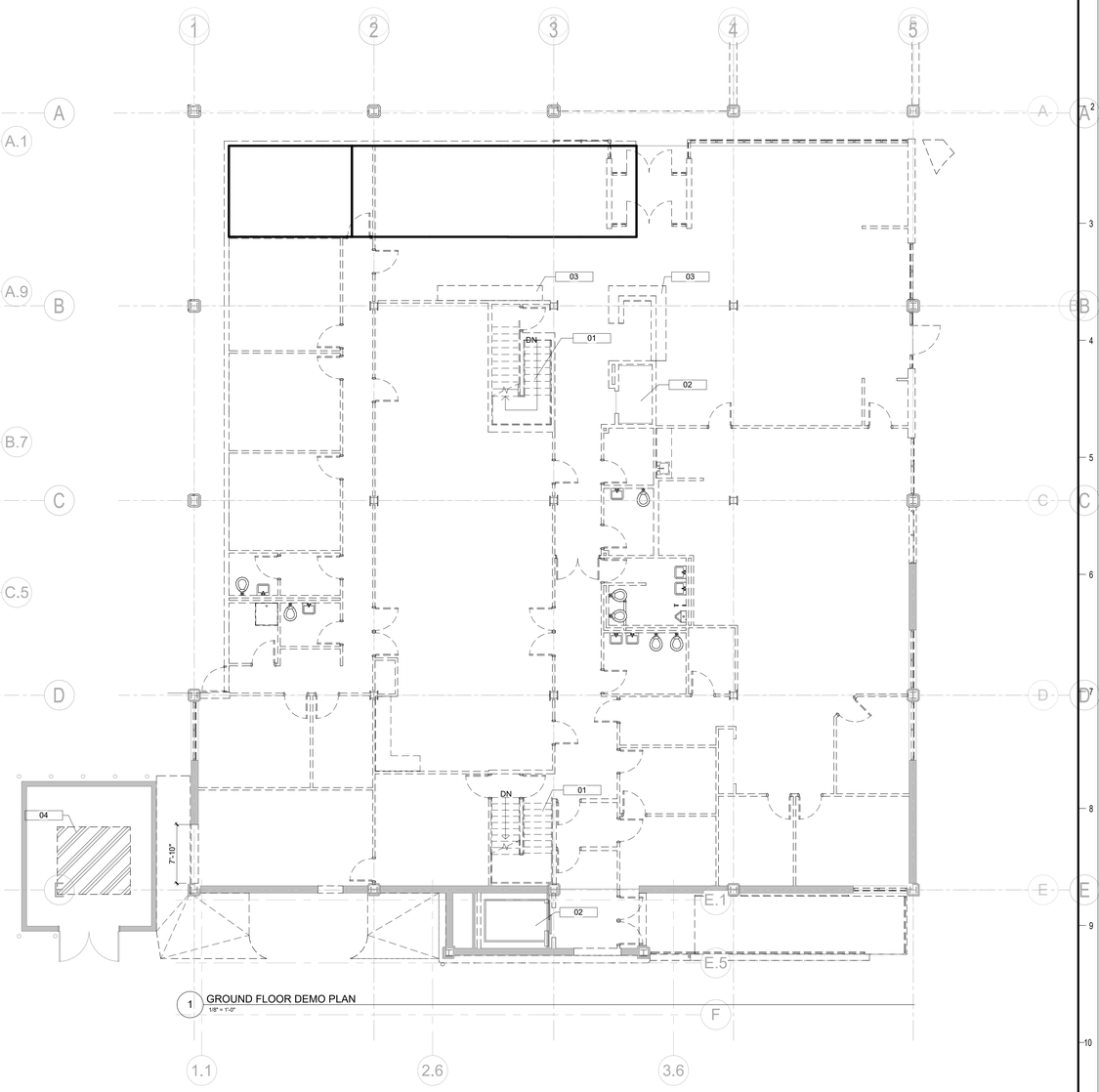
Date March 28, 2025

Title SITE SURVEY

Sheet No. **VF101**



2 SECOND FLOOR DEMO PLAN
1/8" = 1'-0"



1 GROUND FLOOR DEMO PLAN
1/8" = 1'-0"

DEMO NOTES	
NUMBER	DESCRIPTION
01	REMOVE EXISTING STAIR
02	REMOVE EXISTING ELEVATOR
03	REMOVE EXISTING CASEWORK
04	REMOVE EXISTING CHILLER

DEMO GENERAL NOTES

1. DEMOLITION SCOPE IS DESCRIBED IN ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL AND FIRE PROTECTION DRAWINGS, CONTRACTOR SHALL REFER TO ALL DRAWINGS TO DETERMINE THE COMPLETE DEMOLITION SCOPE REQUIRED.

2. CONTRACTOR TO SURVEY EXISTING CONDITIONS AND COORDINATE WITH REQUIREMENTS INDICATED TO DETERMINE EXTENT OF SELECTIVE DEMOLITION REQUIRED. SOME ADDITIONAL SELECTIVE DEMOLITION MAY BE REQUIRED TO FACILITATE FULL EXTENT OF NEW WORK.

3. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS ARE ENCOUNTERED, INVESTIGATE AND MEASURE THE NATURE AND EXTENT OF THE CONFLICT. NOTIFY ARCHITECT IMMEDIATELY.

4. ALL EXISTING STRUCTURE THAT IS SHOWN IS FOR REFERENCE ONLY AND IS TO BE FIELD VERIFIED BY THE CONTRACTOR. NO STRUCTURAL MEMBERS SHALL BE CUT, ALTERED, WITHOUT PRIOR APPROVAL BY THE ARCHITECT/STRUCTURAL ENGINEER. NOTIFY THE ARCHITECT AND OWNER OF ANY MAJOR DISCREPANCIES BETWEEN DEMOLITION DRAWINGS AND EXISTING CONDITIONS.

5. THE CONTRACTOR IS FULLY RESPONSIBLE FOR THE MEANS AND METHODS OF DEMOLITION AND THE SAFETY OF THE EXISTING STRUCTURE. ERECT AND MAINTAIN TEMPORARY BRACING, SHORING, LIGHTS, BARRICADES, WARNING SIGNS AND GUARDS NECESSARY TO PROTECT THE PUBLIC AND ADJOINING PROPERTY FROM DAMAGE, ALL IN ACCORDANCE WITH APPLICABLE REGULATION

6. CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE. ENSURE SAFE PASSAGE OF PEOPLE AROUND SELECTIVE DEMOLITION AREAS.

7. PROTECT WALLS, CEILINGS, FLOORS, AND OTHER EXISTING FINISH WORK THAT IS TO REMAIN AND/OR IS EXPOSED DURING SELECTIVE DEMOLITION OPERATIONS.

8. DEBRIS TO BE REMOVED FROM WORK AREA TO A DUMPSTER. PROTECT ROUTE AS REQUIRED. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS. CONTRACTOR TO VERIFY PROPOSED LOCATION OF DUMPSTER WITH TECH PARK

9. FOR ALL DEMOLITION PLANS REFER TO DEMOLITION KEY NOTES TO DETERMINE THE FULL EXTENT OF SELECTIVE DEMOLITION.

10. DEMOLISH AND REMOVE EXISTING CONSTRUCTION ONLY TO THE EXTENT INDICATED ON DEMOLITION PLAN AND/OR AS REQUIRED TO INSTALL NEW WORK SHOWN/SPECIFIED ELSEWHERE. USE METHODS REQUIRED TO COMPLETE WORK WITHIN LIMITATIONS OF GOVERNING REGULATIONS AND AS FOLLOWS:

    A. NEATLY CUT OPENINGS AND HOLES PLUMB, SQUARE, AND TRUE TO DIMENSIONS REQUIRED. USE CUTTING METHODS LEAST LIKELY TO DAMAGE CONSTRUCTION TO REMAIN OR ADJOINING CONSTRUCTION. TO MINIMIZE DISTURBANCE OF ADJACENT SURFACES, USE HAND OR SMALL POWER TOOLS DESIGNED FOR SAWING OR GRINDING, NOT HAMMERING AND CHOPPING.

    B. CUT OR DRILL FROM THE EXPOSED OR FINISHED SIDE INTO CONCEALED SURFACES TO AVOID MARRING EXISTING FINISHED SURFACES. DISPOSE OF DEMOLISHED ITEMS AND MATERIALS PROMPTLY. ON-SITE STORAGE OF REMOVED ITEMS IS PROHIBITED UNLESS STORED IN DUMPSTER.

11. WHERE FIRE-RATED WALLS ARE ALTERED OR DAMAGED DUE TO DEMOLITION, PATCH, REPAIR OR FILL AS REQUIRED TO MAINTAIN RATING.

12. WHERE CEILINGS OR FURDOWNS ARE NOTED TO BE REMOVED, INCLUDE ALL ASSOCIATED SUPPORT SYSTEMS, MECHANICAL GRILLES, ELECTRICAL FIXTURES, LIGHTS, AND ALL OTHER DEVICES.

13. PROVIDE FINAL CLEANING THROUGHOUT.

ADDITIONAL DEMO NOTES

1. EXISTING PRECAST ON EXTERIOR STRUCTURE TO REMAIN UNLESS SPECIFIED TO BE REMOVED

CENTRAL ARKANSAS WATER

JAMES T. HARVEY

ADMINISTRATION BUILDING RENOVATIONS
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DESIGN DEVELOPMENT

No	Issue	Date
-		

Job No.
CENTRA24.00
Date
March 28, 2025
Title

DEMOLITION PLANS

Sheet No.

D1.01

Project Name
Autodesk Docs://Central Arkansas Water JTH Building Renovations/CENTRA24.00-CAW JTH_v24.rvt
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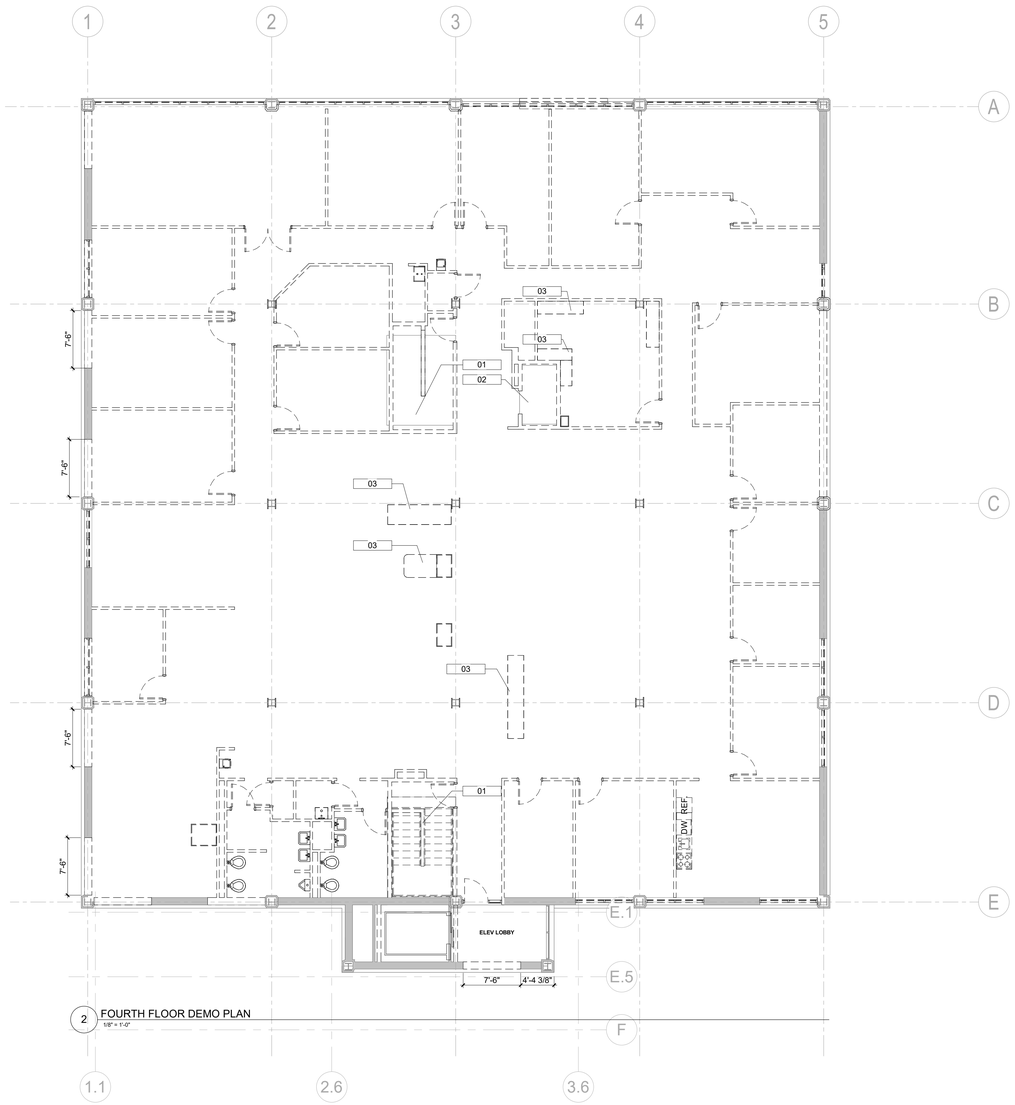
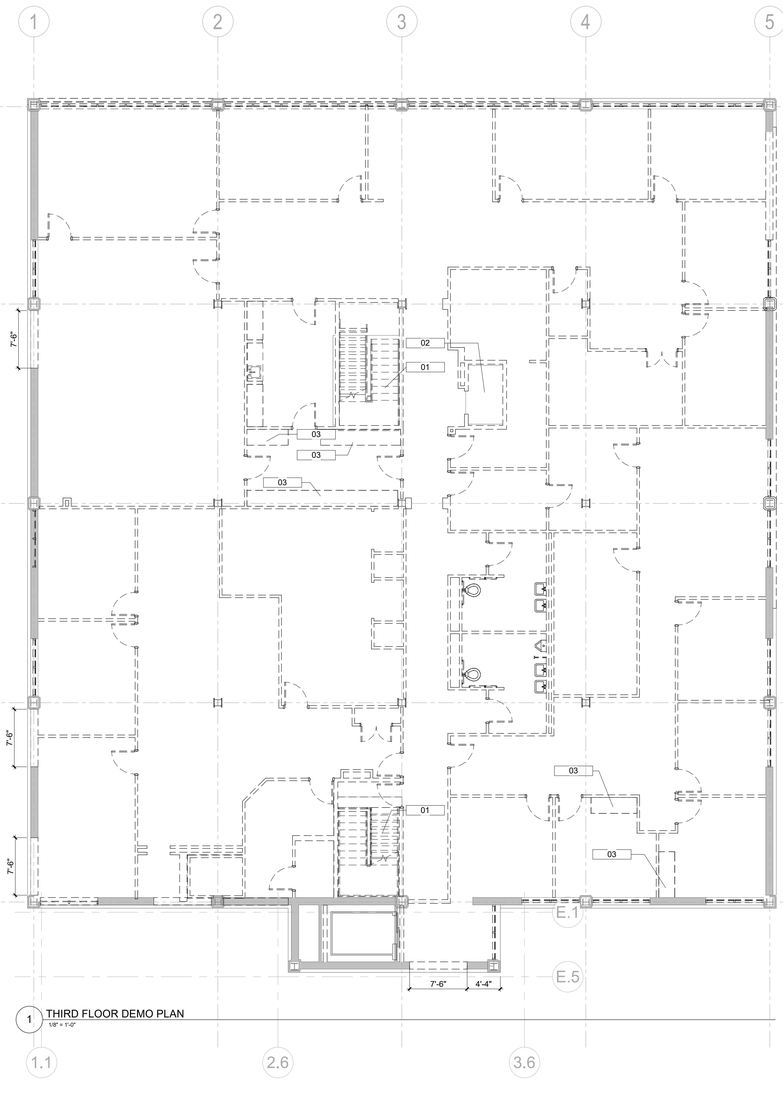


2 FOURTH FLOOR DEMO PLAN
1/8" = 1'-0"



1 THIRD FLOOR DEMO PLAN
1/8" = 1'-0"

DEMO NOTES	
NUMBER	DESCRIPTION
01	REMOVE EXISTING STAIR
02	REMOVE EXISTING ELEVATOR
03	REMOVE EXISTING CASEWORK

DEMO GENERAL NOTES

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8. DEBRIS TO BE REMOVED FROM WORK AREA TO A DUMPSTER. PROTECT ROUTE AS REQUIRED. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS. CONTRACTOR TO VERIFY PROPOSED LOCATION OF DUMPSTER WITH TECH PARK

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    B. CUT OR DRILL FROM THE EXPOSED OR FINISHED SIDE INTO CONCEALED SURFACES TO AVOID MARRING EXISTING FINISHED SURFACES. DISPOSE OF DEMOLISHED ITEMS AND MATERIALS PROMPTLY. ON-SITE STORAGE OF REMOVED ITEMS IS PROHIBITED UNLESS STORED IN DUMPSTER.

11. WHERE FIRE-RATED WALLS ARE ALTERED OR DAMAGED DUE TO DEMOLITION, PATCH, REPAIR OR FILL AS REQUIRED TO MAINTAIN RATING.

12. WHERE CEILINGS OR FURDOWNS ARE NOTED TO BE REMOVED, INCLUDE ALL ASSOCIATED SUPPORT SYSTEMS, MECHANICAL GRILLES, ELECTRICAL FIXTURES, LIGHTS, AND ALL OTHER DEVICES.

13. PROVIDE FINAL CLEANING THROUGHOUT.

ADDITIONAL DEMO NOTES

1. EXISTING PRECAST ON EXTERIOR STRUCTURE TO REMAIN UNLESS SPECIFIED TO BE REMOVED

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DESIGN DEVELOPMENT

No.	Issue	Date

Job No. CENTRA24.00

Date March 28, 2025

Title

DEMOLITION PLANS

Sheet No.

D1.02

Project Name
Autodesk Docs://Central Arkansas Water/JTH Building Renovations/CENTRA24.00-CAW JTH_v24.rvt
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DEMOLITION NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL, IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES, OF ALL STRUCTURES, PADS, WALLS, FOUNDATIONS, PARKING, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER SPECIFICATIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING AND DISPOSING ALL DEBRIS FROM THE SITE IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
3. THE CONTRACTOR MUST PROTECT THE PUBLIC FROM CONSTRUCTION ACTIVITIES AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC. TO THE BEST PRACTICES AND APPROVED BY THE OWNER.
4. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING PARKING, SIDEWALKS, DRIVES, ETC. CLEAR AND FREE FROM ANY CONSTRUCTION ACTIVITY AND/OR MATERIAL TO ENSURE EASY AND SAFE PEDESTRIAN AND VEHICULAR TRAFFIC TO AND FROM THE SITE.
5. PRIOR TO CLEARING, VEGETATION TO REMAIN SHALL BE PROTECTED FROM DAMAGE AND THE CONTRACTOR SHALL INSTALL EROSION CONTROL STRUCTURES AND DEVICES AND TREE PRESERVATION FENCING.
6. CONTRACTOR SHALL NOTIFY GOVERNING AUTHORITY PRIOR TO ANY WORK IN PUBLIC RIGHT-OF-WAY AND OBTAIN ANY NECESSARY PERMITS.
7. ANY DAMAGE TO THE EXISTING PUBLIC STREET OR OTHER PUBLIC INFRASTRUCTURE DUE TO THE CONSTRUCTION SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S EXPENSE.
8. CONTRACTOR SHALL SAW CUT IMPROVEMENTS AT REMOVAL LINES. THE CONTRACTOR SHALL PROTECT SAW CUT EDGE OF ASPHALT FROM RAVELING DURING CONSTRUCTION. WHERE RAVELING OCCURS PRIOR TO NEW PAVEMENT BEING PLACED THE CONTRACTOR MAY BE REQUIRED TO PROVIDE ADDITIONAL SAW CUT, AT THE CONTRACTOR'S EXPENSE, TO PROVIDE A CLEAN EDGE.
9. ALL PAVEMENT OR STRUCTURE DEMOLITION INCLUDES ASSOCIATED FOUNDATIONS AND/OR BASE COURSE LAYERS.
10. THERE ARE NUMEROUS PUBLIC AND PRIVATE UTILITIES WITHIN AND ADJACENT TO THE LIMITS OF CONSTRUCTION AND AN ATTEMPT HAS BEEN MADE TO INDICATE THEIR PRESENCE ON THE PLAN. PRIOR TO BEGINNING ANY TYPE OF EXCAVATION THE CONTRACTOR SHALL CONTACT THE VARIOUS UTILITY COMPANIES AND MAKE ARRANGEMENTS FOR LOCATION OF THE UTILITY ON THE GROUND. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN THE UTILITY LOCATION MARKINGS UNTIL THEY ARE NO LONGER NEEDED. EXISTING AND ABANDONED UTILITY LOCATIONS ARE UNKNOWN. SURVEY MARKERS ARE APPROXIMATE LOCATIONS ONLY. ALL UTILITIES ARE TO BE RELOCATED PRIOR TO CONSTRUCTION.
11. ALL UTILITIES SHOWN FOR REMOVAL BACK TO MAIN SHALL BE REMOVED AND CAPPED PER UTILITY STANDARD REQUIREMENTS. UTILITY REMOVAL SHALL BE COORDINATED WITH THE UTILITY AND THE OWNER. 72 HOURS WRITTEN NOTICE SHALL BE GIVEN TO THE OWNER AND UTILITY PRIOR TO DEMOLISHING ANY UTILITY.
12. EXISTING UTILITIES TO REMAIN ARE TO BE PROTECTED.
13. SEE ELECTRICAL SITE PLAN FOR ADDITIONAL ELECTRIC SERVICE REMOVAL.
14. CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL EXISTING SITE CONDITIONS DISTURBED BY CONSTRUCTION ACTIVITIES BACK TO EXISTING OR BETTER CONDITIONS.
15. ANY ITEMS SHOWN TO BE SALVAGED SHALL BE STORED AND REUSED AS SHOWN ON OTHER PLAN DRAWINGS OR RETURNED TO THE OWNER AND STORED AT THE OWNER'S DIRECTION.
16. SHOULD REMOVAL AND/OR RELOCATION ACTIVITIES DAMAGE FENCING, SIDEWALKS, LIGHTING, STORM INLET STRUCTURES, ETC. THEN THE CONTRACTOR SHALL PROVIDE NEW MATERIAL/STRUCTURES IN ACCORDANCE WITH CONTRACT DOCUMENTS. EXCEPT FOR MATERIALS DESIGNATED TO BE RELOCATED ON THIS PLAN, ALL CONSTRUCTION MATERIALS SHALL BE NEW.
17. ANY CONSTRUCTION ACTIVITIES THAT WILL REQUIRE ROAD OR LANE CLOSURES SHALL BE COORDINATED WITH THE APPROPRIATE ORGANIZATION PRIOR TO CLOSURE AND APPROPRIATE PERMITS OBTAINED BY THE CONTRACTOR.
18. CONTRACTOR SHALL PAY FOR ALL TRAFFIC CONTROL DEVICES AND PERSONNEL FOR ROAD CLOSURES AND DETOURS.
19. ALL EXISTING SIGNS AND POSTS TO BE REMOVED SHALL BE RELOCATED, STOCKPILED, OR REMOVED AS DIRECTED.
20. **DIG CAREFULLY.** STATE LAWS GENERALLY PROHIBIT THE USE OF MECHANIZED EQUIPMENT WITHIN 18-24 INCHES OF A MARKED UTILITY, WHICH IS CALLED THE "TOLERANCE ZONE". CONTACT THE PROPER LOCAL AGENCY PRIOR TO DIGGING.

SITE LAYOUT NOTES :

1. CONTRACTOR SHALL BE CONFINED TO THE LIMITS OF CONSTRUCTION SHOWN UNLESS OTHER PROVISIONS HAVE BEEN MADE WITH THE OWNER. THIS INCLUDES STAGING AND LAYDOWN AREAS.
2. CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO WORK BEGINNING.
3. PARKING LOT STRIPING SHALL BE 4" WIDE, WHITE NON-REFLECTIVE TRAFFIC PAINT. ZONE STRIPING SHALL BE @ 2' CENTERS AND AT 45° TO LINE OF TRAFFIC.
4. DIMENSIONS TO CURBS ARE TO BACK OF CURB. DIMENSIONS TO BUILDINGS ARE TO OUTSIDE FACE OF BUILDING WALL.
5. MINIMUM CURB RADIUS SHALL BE 2'.
6. THE CONTRACTOR SHALL LAYOUT AND VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION, ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR DIRECTION AND RESOLUTION PRIOR TO PROCEEDING.
7. PROVIDE EXPANSION JOINTS IN ALL CASES WHERE CONCRETE SURFACE MEETS VERTICAL STRUCTURES OR WHERE NEW CONCRETE SURFACE ABUTS EXISTING CONCRETE SURFACE.
8. CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL EXISTING SITE CONDITIONS DISTURBED BY CONSTRUCTION ACTIVITIES BACK TO EXISTING OR BETTER CONDITIONS. RESTORATION AND CLEANUP SHALL BE COMPLETE PRIOR TO ACCEPTANCE OF THE JOB.
9. ALL WORK DONE IN PUBLIC RIGHT-OF-WAY SHALL MEET THE REQUIREMENTS AND SPECIFICATIONS OF THE GOVERNING AUTHORITY.
10. SEE LANDSCAPE PLAN FOR SLEEVE SIZE AND LOCATION.
11. THE CONTRACTOR IS RESPONSIBLE FOR ANY STREET SIGNS OR SIGNS IN RIGHT-OF-WAY THAT WERE REMOVED DURING CONSTRUCTION SHALL REPLACE/REINSTALL AS SOON AS PRACTICAL. TEMPORARY SIGNS SHALL BE INSTALLED DURING CONSTRUCTION.
12. THE CONTRACTOR SHALL RELOCATE EXISTING STREET SIGNS THAT ARE OBSCURED BY NEWLY PLACED LANDSCAPING. COORDINATE WITH AUTHORITY HAVING JURISDICTION (AHJ) SHOULD QUESTIONS ABOUT RELOCATIONS ARISE.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING NEWLY PAVED AREAS THAT SHOW DIFFERENTIAL SETTLEMENT OR RANDOM CRACKING AT ENGINEER'S DISCRETION.

GRADING AND DRAINAGE NOTES:

1. CONTRACTOR SHALL MODIFY THE EROSION CONTROL PLAN AS NEEDED TO ELIMINATE SEDIMENTATION FROM LEAVING THE SITE AS SITE CONDITIONS CHANGE.
2. EXISTING UTILITIES TO REMAIN ARE TO BE ADJUSTED TO MATCH PROPOSED GRADE.
3. A MINIMUM OF 4" OF TOP SOIL SHALL BE REQUIRED IN AREAS TO BE LANDSCAPED.
4. CONTRACTOR SHALL SPREAD 4" TOPSOIL AND INSTALL SOD(SEED) AND FERTILIZER ON ALL DISTURBED EARTH SURFACES RESULTING FROM THE CONTRACTOR'S OPERATIONS, UNLESS SHOWN OTHERWISE.
5. AREAS THAT ARE TO BE SODDED OR SEEDED SHALL BE RELATIVELY FREE OF WEEDS AT TIME OF FINAL ACCEPTANCE.
6. ALL IMPORTED FILL SHALL BE FREE OF ORGANIC MATERIAL.
7. THE CONTRACTOR SHALL PREPARE AS-BUILTS OF THE STORM DRAIN SYSTEM PER THE CITY OF LITTLE ROCK PUBLIC WORKS DEPARTMENT STANDARDS.
8. THE CONTRACTOR SHALL TIE ALL NEW DOWN SPOUTS INTO EXISTING COLLECTION SYSTEM THROUGH EXISTING BOOTS. THE CONTRACTOR SHALL CLEAN ENTIRE SYSTEM PRIOR TO CONNECTION. THE CONTRACTOR SHALL CONTACT ARCHITECT IF ARCHITECTURAL ELEVATIONS SHOW LOCATIONS DIFFERENT THAN ACTUAL BOOT LOCATIONS PRIOR TO INSTALLATION OF GUTTER AND DOWN SPOUT SYSTEM.
9. MAXIMUM LAWN GRADE SLOPE SHALL BE 3:1, UNLESS SHOWN OTHERWISE.
10. MAXIMUM WALK CROSS SLOPE SHALL BE 2%. MAXIMUM LINEAR GRADE SHALL BE 5%.
11. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO EXCAVATING. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING SWPPP AND KEEPING STORM WATER SYSTEM CLEAN DURING CONSTRUCTION.
13. CONTRACTOR IS RESPONSIBLE FOR PURSUING AND OBTAINING ALL NECESSARY STORM WATER PERMITS AND FOLLOWING ALL LOCAL STORM WATER DETENTION/RETENTION AND OUTFALL REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION
14. CONTRACTOR SHALL CLEAN ALL EXISTING STORM DRAINS OF SEDIMENT AND CONSTRUCTION DEBRIS FROM INLET TO DISCHARGE POINT AT HEADWALL OR JUNCTION BOX ON PUBLIC RIGHT-OF-WAY. INCLUDE ROOF, DRAINS, GUTTER SYSTEMS AND LATERAL LINES.
15. ANY DAMAGE TO PUBLIC STORM WATER SYSTEM DUE TO LACK OF MAINTAINING BMP'S WILL BE THE CONTRACTOR'S RESPONSIBILITY TO CLEAN OR REPAIR TO THE SATISFACTION OF THE ENGINEER OR LOCAL AUTHORITY.
16. CONTRACTOR SHALL MEET ALL OSHA REQUIREMENTS AND/OR COMPARABLE OSHA-APPROVED STATE PLAN REQUIREMENTS FOR TRENCHING AND EXCAVATION.

UTILITY NOTES:

1. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO EXCAVATING. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
2. ALL WORK WITHIN PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE GOVERNING AUTHORITY.
3. THERE ARE NUMEROUS PUBLIC AND PRIVATE UTILITIES WITHIN AND ADJACENT TO THE LIMITS OF CONSTRUCTION AND AN ATTEMPT HAS BEEN MADE TO INDICATE THEIR PRESENCE ON THE PLAN. PRIOR TO BEGINNING ANY TYPE OF EXCAVATION THE CONTRACTOR SHALL CONTACT THE VARIOUS UTILITY COMPANIES AND MAKE ARRANGEMENTS FOR LOCATION OF THE UTILITY ON THE GROUND. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN THE UTILITY LOCATION MARKINGS UNTIL THEY ARE NO LONGER NEEDED. EXISTING AND ABANDONED UTILITY LOCATIONS ARE UNKNOWN. SURVEY MARKERS ARE APPROXIMATE LOCATIONS ONLY. ALL UTILITIES ARE TO BE RELOCATED PRIOR TO CONSTRUCTION.
4. ALL UTILITIES SHOWN FOR REMOVAL BACK TO MAIN SHALL BE REMOVED AND CAPPED PER UTILITY STANDARD REQUIREMENTS. UTILITY REMOVAL SHALL BE COORDINATED WITH THE UTILITY AND THE OWNER. 72 HOURS WRITTEN NOTICE SHALL BE GIVEN TO THE OWNER AND UTILITY PRIOR TO DEMOLISHING ANY UTILITY.
5. CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER OF ANY DAMAGED OR INTERRUPTED UTILITIES IMMEDIATELY.
6. EXISTING UTILITIES THAT ARE TO REMAIN ARE TO BE PROTECTED AND ADJUSTED TO MATCH NEW GRADE
7. CONTRACTOR SHALL INSTALL SANITARY SEWER LINES IN ACCORDANCE WITH "STANDARD SPECIFICATIONS FOR SEWER CONSTRUCTION IN THE CITY OF LITTLE ROCK" LATEST EDITION PER LITTLE ROCK WATER RECLAMATION AUTHORITY
8. CONTRACTOR SHALL INSTALL WATER LINES IN ACCORDANCE WITH "STANDARD PIPELINE MATERIALS AND CONSTRUCTION SPECIFICATIONS" BY CENTRAL ARKANSAS WATER, LATEST EDITION
9. CONTRACTOR SHALL HOLD A PRECONSTRUCTION MEETING WITH CENTRAL ARKANSAS WATER PERSONNEL AND THE ENGINEER OF RECORD. THE CONTRACTOR IS RESPONSIBLE FOR AS-BUILT DRAWINGS PER CAW REQUIREMENTS.
10. ANY MAJOR REVISION TO LOCATION OF WATER OR SANITARY SEWER TIE-INS, MANHOLES, METERS, ETC. NEED TO HAVE DRAWINGS RE-SUBMITTED TO ARKANSAS DEPARTMENT OF HEALTH FOR RE-APPROVAL.
11. **DIG CAREFULLY.** STATE LAWS GENERALLY PROHIBIT THE USE OF MECHANIZED EQUIPMENT WITHIN 18-24 INCHES OF A MARKED UTILITY, WHICH IS CALLED THE "TOLERANCE ZONE". CONTACT THE PROPER LOCAL AGENCY PRIOR TO DIGGING.
12. CONTRACTOR SHALL MEET ALL OSHA REQUIREMENTS AND/OR COMPARABLE OSHA-APPROVED STATE PLAN REQUIREMENTS FOR TRENCHING AND EXCAVATION.

SEDIMENTATION AND EROSION CONTROL NOTES:

1. ALL AREAS OF THE SITE EXPOSED BY CONSTRUCTION ACTIVITY AND LEFT UNDISTURBED FOR 21 DAYS MUST BE MULCHED WITHIN 14 DAYS OF LAST DISTURBANCE.
2. PRIOR TO CLEARING, THE CONTRACTOR SHALL INSTALL EROSION CONTROL STRUCTURES AND DEVICES AND TREE PRESERVATION FENCING.
3. ALL AREAS WITHIN THE PARKING LOT ARE TO RECEIVE A GRAVEL BASE TO PROVIDE EROSION CONTROL IF WORK IS NOT PROGRESSING IN AN ORDERLY MANNER. A RATE OF 135 TONS/ACRE IS TO BE APPLIED WITHIN TWO WEEKS OF FINAL GRADING.
4. ALL AREAS NOT WITHIN THE PARKING LOT ARE TO RECEIVE LOOSE STRAW TO PROVIDE EROSION CONTROL IF WORK IS NOT PROGRESSING IN AN ORDERLY MANNER. A RATE OF 2 TONS/ACRE IS TO BE APPLIED WITHIN TWO WEEKS OF FINAL GRADING.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING BMP'S, POSTING SWPPP ON SITE AND MONITORING/MAINTAINING EROSIONS CONTROL MEASURES.
6. ANY DAMAGE TO PUBLIC STORM WATER SYSTEM DUE TO LACK OF MAINTAINING BMP'S WILL BE THE CONTRACTOR'S RESPONSIBILITY TO CLEAN OR REPAIR TO THE SATISFACTION OF THE ENGINEER OR LOCAL AUTHORITY.
7. CONTRACTOR SHALL MODIFY THE EROSION CONTROL PLAN AS NEEDED TO ELIMINATE SEDIMENTATION FROM LEAVING THE SITE AS SITE CONDITIONS CHANGE.
8. CONTRACTOR SHALL PREVENT OFF-SITE TRACKING OF CONSTRUCTION SEDIMENT AND RUNOFF TO ADJACENT PROPERTY AND PUBLIC ROADS.
9. THIS PLAN SHOWS THE LOCATION AND DETAILS PRIMARY SEDIMENT CONTROLS TO BE CONSTRUCTED. THE CONTRACTOR OR THEIR REPRESENTATIVE IS RESPONSIBLE FOR CONTROLLING EROSION AND DISCHARGE OF SEDIMENT FROM THE SITE AT ALL TIMES DURING CONSTRUCTION. THE PERMITTEE OR THEIR REPRESENTATIVE SHALL PROVIDE NECESSARY MEASURES DURING ALL PHASES OF CONSTRUCTION REGARDLESS OF WHETHER THEY ARE SPECIFICALLY NOTED ON THIS PLAN AND SHALL MAINTAIN AND REPLACE CONTROLS AS NECESSARY DURING CONSTRUCTION TO PREVENT THE MOVEMENT OF SEDIMENT DOWNSTREAM.
10. THE CONTRACTOR OR THEIR REPRESENTATIVE IS RESPONSIBLE FOR INFORMING ALL PARTIES ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE SWPPP.
11. THE LIMITS OF CLEARING, GRADING, AND DISTURBANCE, AS SHOWN ON THE PLAN(S), SHALL BE KEPT TO A MINIMUM WITHIN THE APPROVED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE THE LIMITS OF CONSTRUCTION SHALL REMAIN TOTALLY UNDISTURBED. PHASING SHALL BE USED TO MINIMIZE THE AMOUNT OF DISTURBED AREA AT ANY GIVEN TIME.
12. A COPY OF THE SWPPP AND INSPECTION REPORTS MUST BE DISPLAYED AT THE CONSTRUCTION SITE.
13. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE CLEANED AND SWEPT AT THE END OF EACH WORKING DAY AT A MINIMUM. MORE FREQUENTLY IF SEDIMENT TRACK OUT IS HEAVY. WASHING OF ACCUMULATED SEDIMENT INTO THE STORM DRAIN OR WATERWAYS IS PROHIBITED.
14. DUST SHALL BE CONTROLLED DURING CONSTRUCTION AND CONSTRUCTION AREAS SHALL BE WATERED WHENEVER CONDITIONS WARRANT.
15. SEDIMENT REMOVED FROM EROSION AND SEDIMENT CONTROLS AND FACILITIES SHALL NOT BE PLACED ON STEEP SLOPES, WETLANDS, FLOODPLAINS OR DRAINAGE SWALES AND SHALL BE IMMEDIATELY STABILIZED, OR PLACED IN TOPSOIL STOCKPILES.
16. ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE THROUGH AN APPROVED SEDIMENT CONTROL BMP, SUCH AS A PUMPED WATER FILTER BAG DISCHARGING OVER NON DISTURBED AREAS.
17. THE CONTRACTOR OR THEIR REPRESENTATIVE IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS OFF-SITE BORROW AND FILL AREAS.
18. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT DEPOSITION, THE CONTRACTOR OR THEIR REPRESENTATIVE SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT DEPOSITION.
19. THE CONTRACTOR OR THEIR REPRESENTATIVE SHALL STABILIZE ALL DISTURBED AREAS NOT SUBJECT TO CONSTRUCTION ACTIVITY WITHIN 14 CALENDAR DAYS AFTER ACTIVITY HAS CEASED. HOWEVER WITHIN THE RIPARIAN AREA, BANKS, ETC., SEEDING, MULCHING AND NEEDED FERTILIZATION SHOULD BE WITHIN THREE DAYS OF FINAL CONTOURING.
20. PERMANENT SWALES OR OTHER POINTS OF CONCENTRATED WATER FLOW SHALL BE STABILIZED WITHIN 7 CALENDAR DAYS OF ESTABLISHMENT WITH SOD OR SEED WITH APPROVED EROSION CONTROL MATTING OR BY OTHER APPROVED MEASURES.
21. ALL DISTURBED AREAS NOT RECEIVING OTHER PERMANENT STABILIZATION SUCH AS PAVEMENT, ROOFS,SOD, ETC., SHALL BE SEEDED AND MULCHED, AS SPECIFIED IN THE SWPPP BEFORE TEMPORARY SEDIMENT CONTROLS CAN BE REMOVED AND PRIOR TO FINAL APPROVAL OF CONSTRUCTION.
22. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.
23. AFTER FINAL STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENTATION CONTROLS SHALL BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE CONTROLS SHALL BE STABILIZED IMMEDIATELY.
24. SILT AND DEBRIS MUST BE REMOVED FROM STORM DRAINS, CONVEYANCE CHANNELS, BASINS OR ANY PART OF THE STORMWATER SYSTEM PRIOR TO FINAL SITE STABILIZATION APPROVAL.
25. THE FOLLOWING WILL BE IMPLEMENTED ACCORDING TO LOCAL, STATE, AND FEDERAL REGULATIONS: LIQUID AND SOLID WASTE MANAGEMENT, CHEMICAL AND MATERIAL DELIVERY AND STORAGE, CONCRETE WASTE, PAINTING AND DRYWALL WORK, VEHICLE FUELING, MAINTENANCE AND CLEANING, ASPHALT, SAWCUTTING, CORING, AND GRINDING ACTIVITIES, BUILDING BLASTING AND CLEANING, CEMENT, GROUT AND MORTAR WORK, SANITARY AND SEPTIC WASTES, WATER LINE DISINFECTION, FLUSHING, DEWATERING, AND OTHER NON-STORMWATER DISCHARGES, HAZARDOUS WASTE MANAGEMENT, AND PROHIBITED DISCHARGES.
26. CONTRACTOR OR THEIR REPRESENTATIVE SHALL MEET ALL OTHER STATE AND FEDERAL CLEAN WATER REQUIREMENTS.

REFERENCE LINKS:
CLR
HTTPS://WWW.LITTLEROCK.GOV/CITY-ADMINISTRATION/CITY-DEPARTMENTS/PUBLIC-WORKS/APPLICATIONS-DETAILS-AND-MANUALS/

LRWRA
HTTPS://WWW.LRWRA.COM/CUSTOMER-CENTER/STANDARDS-AND-SPECIFICATIONS/

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No.	Issue	Date

Job No. CENTRA24.00
Date March 28, 2025
Title

CIVIL NOTES

Sheet No.
C-001

LEGEND

- REMOVE TREE BRUSH
- REMOVE CONCRETE PAVEMENT
- MILL ASPHALT PAVEMENT
- REMOVE CONCRETE WALK
- REMOVE ASPHALT PAVEMENT
- REMOVE CURB & GUTTER
- REMOVE STORM DRAIN
- REMOVE STORM DRAIN

NORTH

1 SITE DEMOLITION PLAN

0 10' 20' 40'

SCALE:1"=20'

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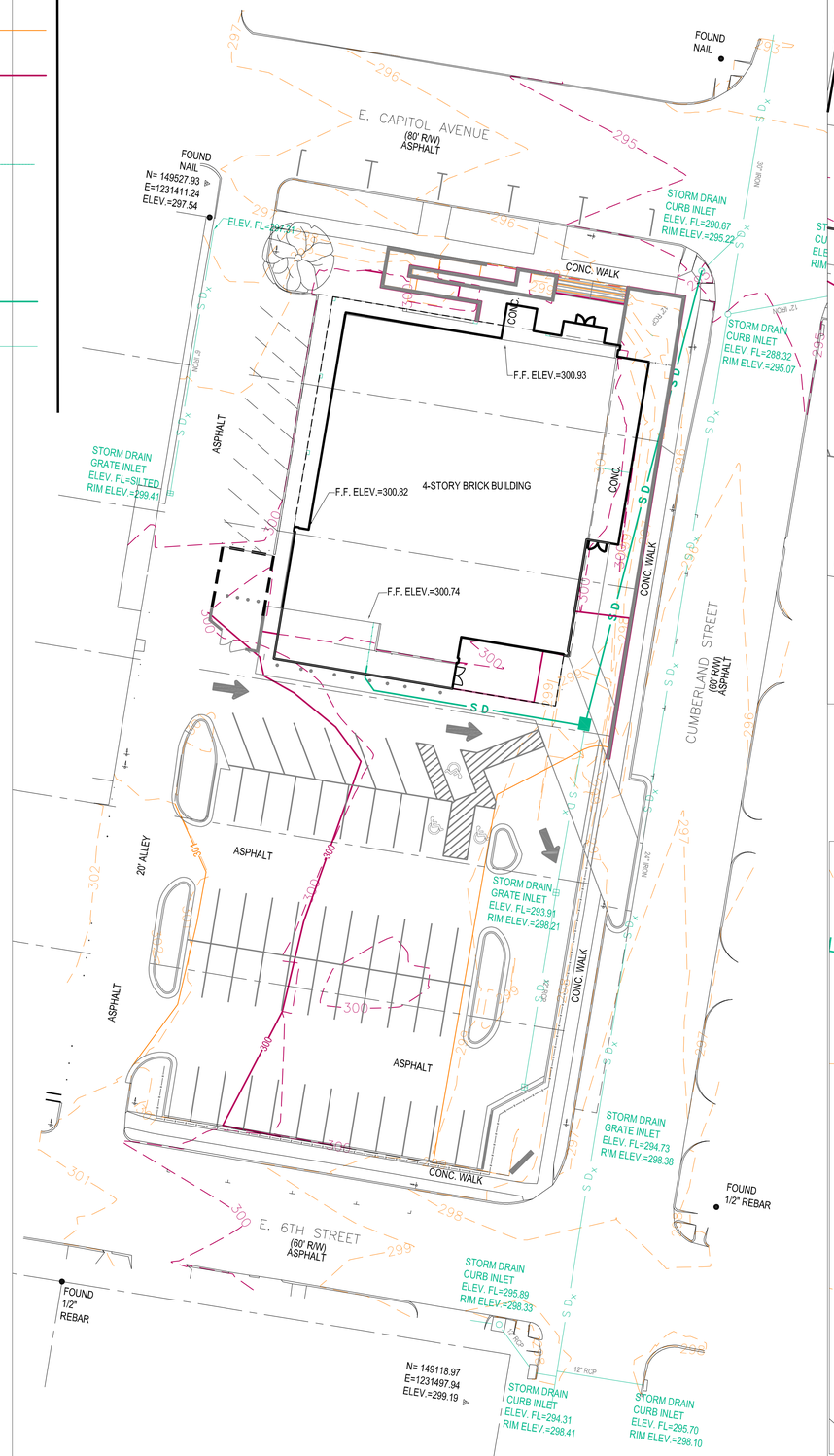
Title SITE DEMOLITION PLAN

Sheet No. **CD101**

LEGEND

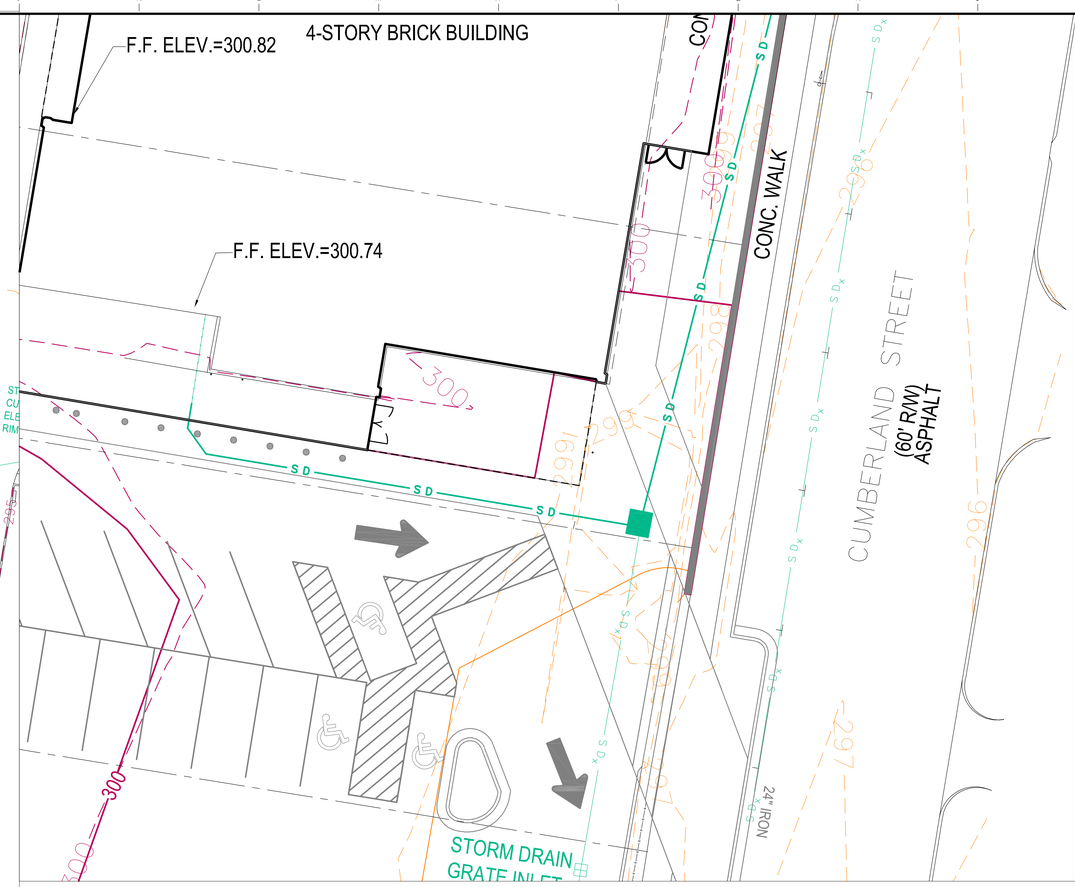
DETAIL REFERENCE

- EXISTING GRADE CONTOUR (1 FOOT INTERVAL) — 382
- EXISTING GRADE CONTOUR (5 FOOT INTERVAL) — 375
- FINISHED GRADE CONTOUR (1 FOOT INTERVAL) — 382
- FINISHED GRADE CONTOUR (5 FOOT INTERVAL) — 380
- FINISHED SPOT ELEVATION (T.C.=TOP OF CURB) — T.C.384.00
- NEW SWALE TO DRAIN
- NEW CATCH BASIN
- EXISTING MANHOLE (M.H.)
- NEW STORM DRAIN (S.D.) — S D
- EXISTING STORM DRAIN (S.D.) — S Dx



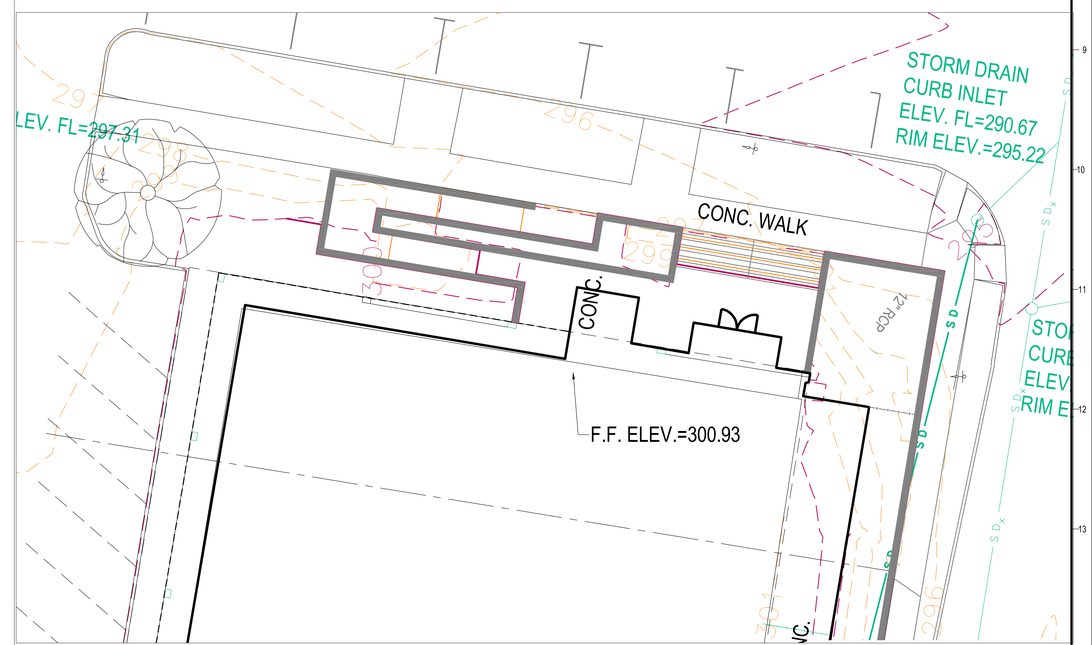
1 SITE GRADING & DRAINAGE PLAN

0 10' 20' 40' — SCALE:1"=20' — NORTH



2 SITE GRADING & DRAINAGE INSET

0 10' 20' — SCALE: 1"= 10' — NORTH



3 SITE GRADING & DRAINAGE INSET

0 10' 20' — SCALE: 1"= 10' — NORTH

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Title

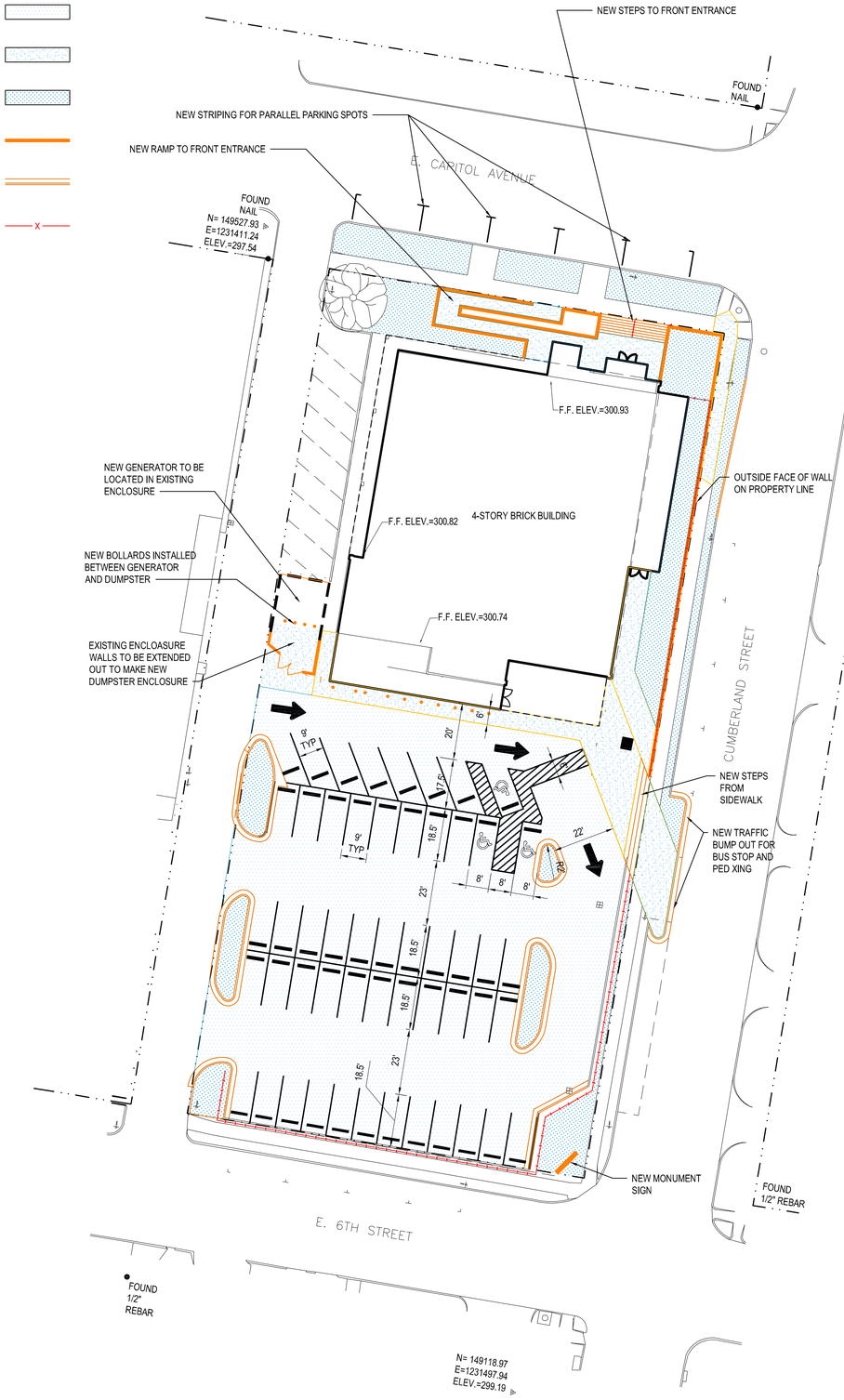
SITE GRADING & DRAINAGE PLAN

Sheet No.

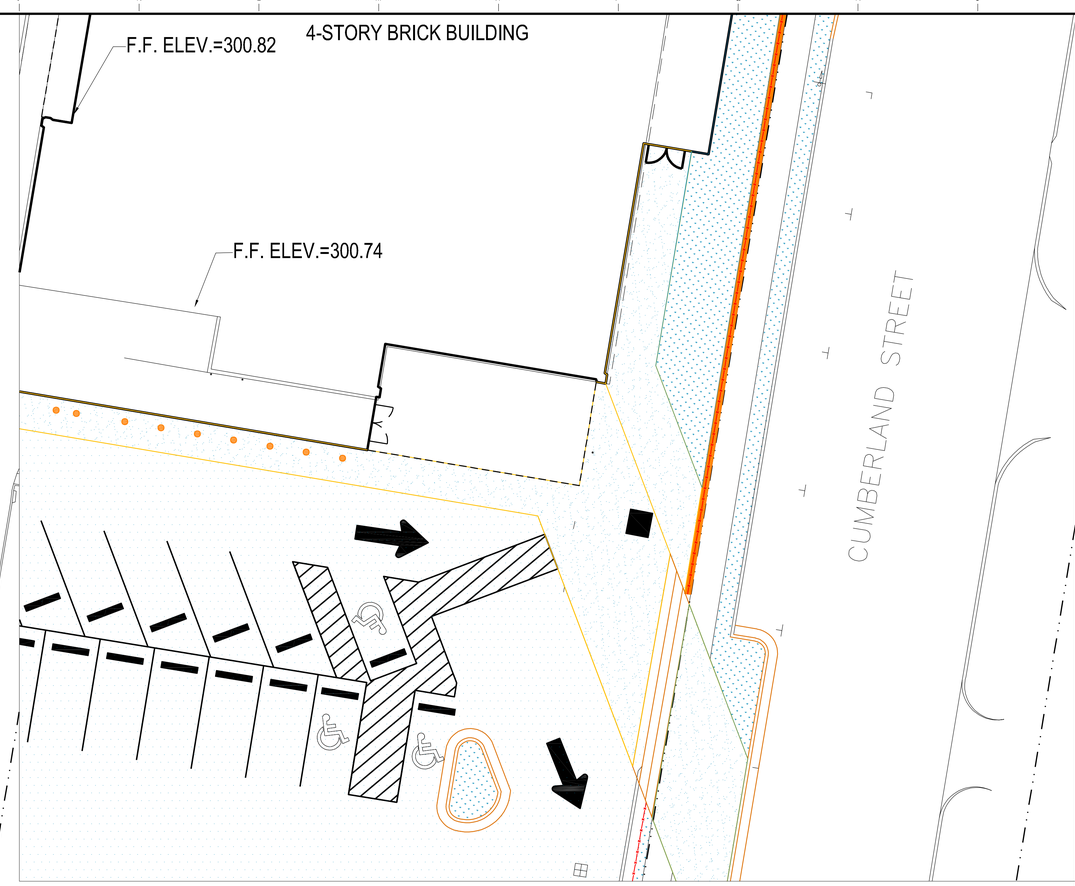
CG101

LEGEND

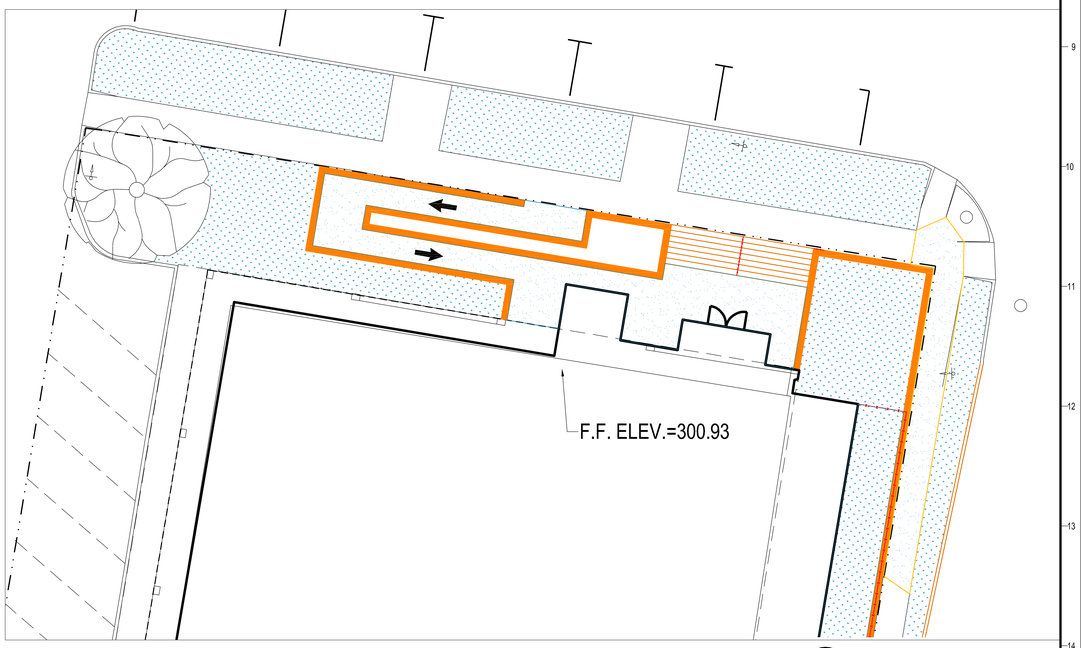
- NEW ASPHALT PAVEMENT
- NEW CONCRETE PAVEMENT
- NEW LANDSCAPE BED
- NEW RETAINING WALL POURED IN PLACE WITH STONE VENEER
- NEW CURB AND GUTTER
- NEW STEEL PICKET FENCE



1 SITE LAYOUT PLAN



2 SITE LAYOUT INSET



3 SITE LAYOUT INSET

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SITE LAYOUT PLAN

Sheet No.

CS101

LEGEND

EXISTING UTILITY LINE
- W=WATER
- SS=SANITARY SEWER
- G=GAS
- O.H.E.=OVERHEAD ELECTRIC

NEW UTILITY LINE
- W=WATER
- SS=SANITARY SEWER
- G=GAS
- IW= IRRIGATION WATER
- 4" PVC IRRIGATION SLEEVE

1 SITE UTILITY PLAN

0 10' 20' 40'

SCALE:1"=20'

NORTH

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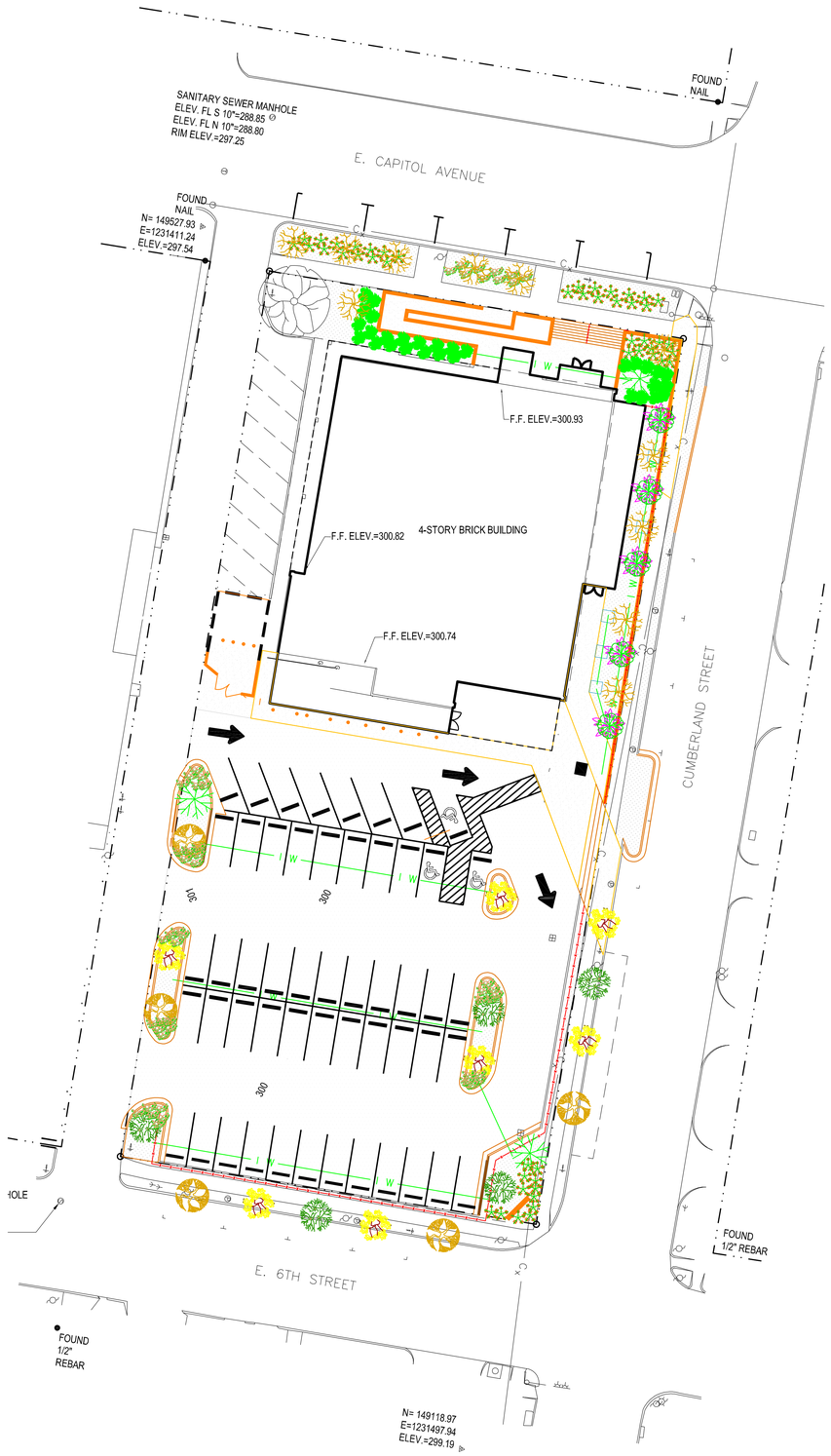
Title SITE UTILITY PLAN

Sheet No. CU101



NORTH

1 LANDSCAPE PLANTING PLAN

0 10' 20' 40'

SCALE:1"=20'

LANDSCAPE NOTES:

1. CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL UTILITIES PRIOR TO STARTING ANY WORK. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ARKANSAS ONE-CALL TO CONFIRM ALL UTILITIES.
2. ALL PLANTS MUST BE HEALTHY, VIGOROUS AND FREE OF PESTS AND DISEASE.
3. STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.
4. ALL PLANTS MUST BE CONTAINER GROWN OR BALLED AND BURLAPPED AS INDICATED ON THE PLANT LIST.
5. ALL REQUIRED TREES SHALL BE 2.5"MINIMUM CALIPER, 2" ORNAMENTAL MINIMUM WITH A SINGLE DOMINATE VERTICAL LEADER. MULTI-LEADERED TREES WILL NOT BE ACCEPTABLE WITHOUT PRIOR APPROVAL FROM LANDSCAPE DESIGNER.
6. ALL SHRUBS SHALL BE 18" MINIMUM IN HEIGHT AT THE TIME OF INSTALLATION.
7. ALL TREES MUST BE STRAIGHT TRUNKED AND FULL HEADED, UNLESS SPECIFIED OTHERWISE, AND MUST MEET ALL REQUIREMENTS SPECIFIED ON PLANS.
8. ALL TREES AND SHRUBS SHALL BE INSTALLED PER STANDARD CITY OF LITTLE ROCK PLANTING DETAILS.
9. ALL PLANTS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE DESIGNER BEFORE, DURING, AND AFTER CONSTRUCTION.
10. ALL PLANTING AREAS MUST BE COMPLETELY MULCH WITH A 3" LAYER OF ORGANIC HARDWOOD MULCH. MULCH SHALL NOT BE PLACED IMMEDIATELY ADJACENT TO TREE TRUNKS, BUT SHALL BE KEPT AT LEAST 3" FROM ROOT COLLAR AT THE SOIL LINE.
11. ALL PLANTING BEDS SHALL BE CONTAINED BY EDGING MATERIAL OTHER THAN VEGETATION.
12. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE LANDSCAPE CONSTRUCTION AT NO COST TO THE OWNER.
14. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK.
15. THE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTING MATERIAL (INCLUDING BUT NOT LIMITED TO:WATERING, SPRAYING, MULCHING, FERTILIZING, ETC.) IN ALL PLANTING AREAS AND LAWN AREAS UNTIL THE WORK IS ACCEPTED IN TOTAL BY THE OWNER.
16. THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR BEGINNING ON THE DATE OF TOTAL ACCEPTANCE. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END OF THE GUARANTEE PERIOD.
17. ANY PLANT MATERIAL WHICH DIES, TURNS BROWN, OR DEFOLIATES (PRIOR TO TOTAL ACCEPTANCE OF THE WORK SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS.
18. NOTIFY LANDSCAPE DESIGNER OR DESIGNATED REPRESENTATIVE OF ANY LAYOUT DISCREPANCIES PRIOR TO ANY PLANTING. LOCATE ALL UTILITIES AND SITE LIGHTING CONDUITS BEFORE CONSTRUCTION BEGINS.
19. ALL PLANTING AREAS ARE TO BE SUFFICIENTLY COVERED BY DRIP IRRIGATION SYSTEM. FOR ALL TREE IRRIGATION SEE DETAIL 3/L-501. SEE SPECIFICATIONS FOR IRRIGATION REQUIREMENTS.

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Date
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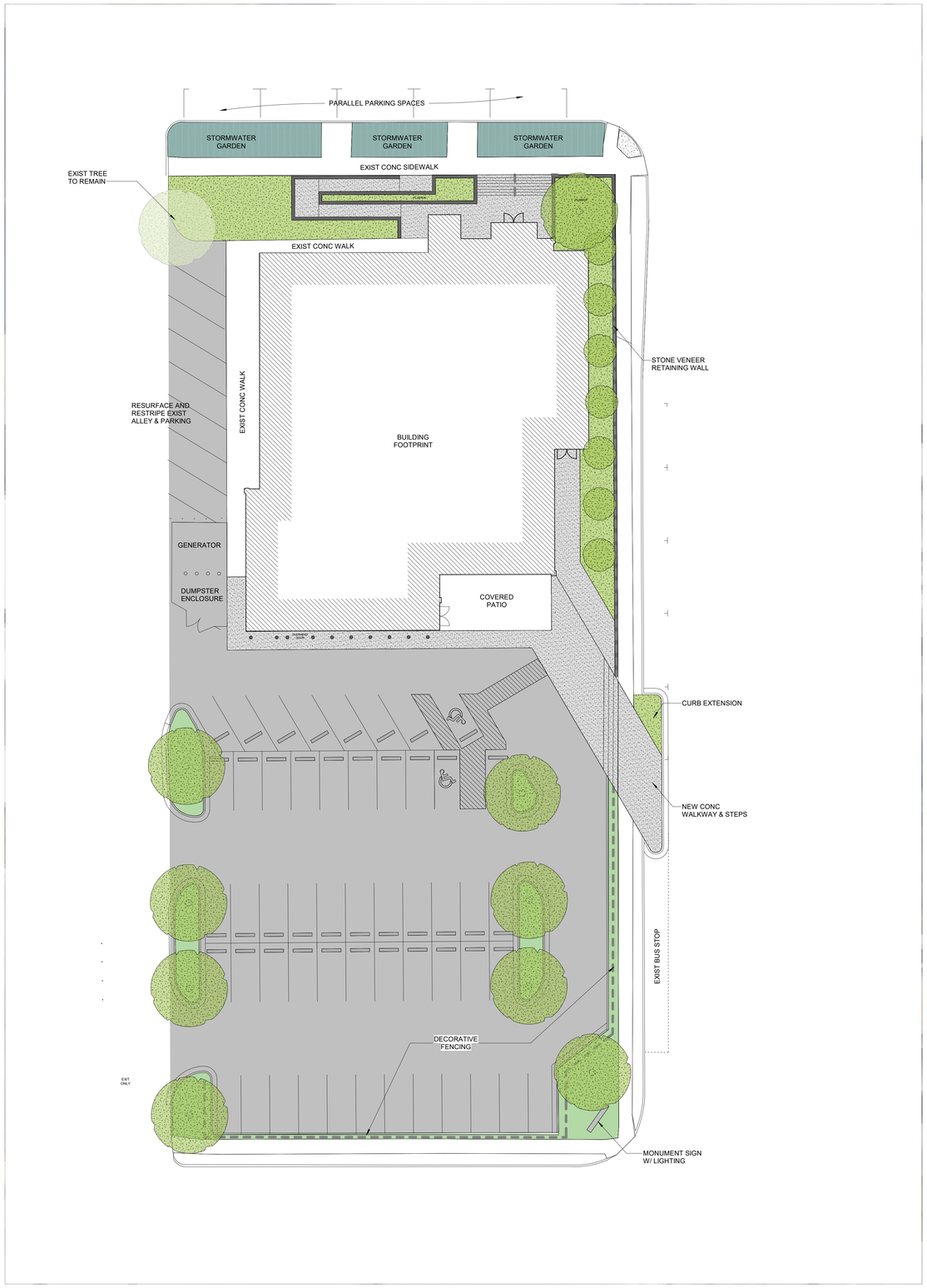
LANDSCAPE PLANTING PLAN
Sheet No.
LP101



D14 ARCHITECTURAL SITE PLAN
1/16" = 1'-0"

0 10 20 40

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Date March 28, 2025

Title

ARCHITECTURAL SITE PLAN

Sheet No.

A1.00

Project Name
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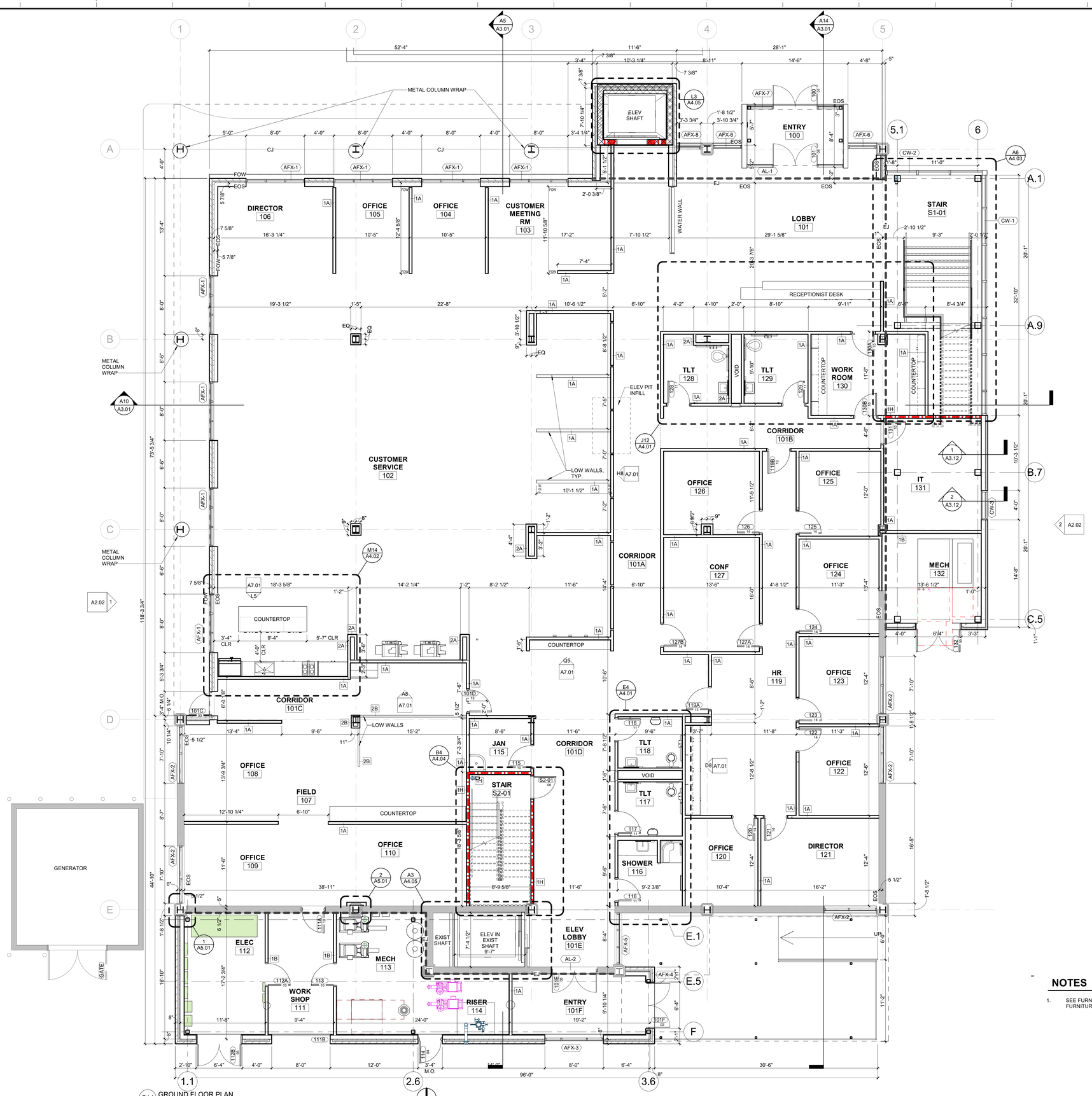

NOTES

1. SEE FURNITURE PLANS FOR FURNITURE WALL LAYOUT

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Date March 28, 2025

Title GROUND FLOOR PLAN

Sheet No. **A1.01**

Project Name
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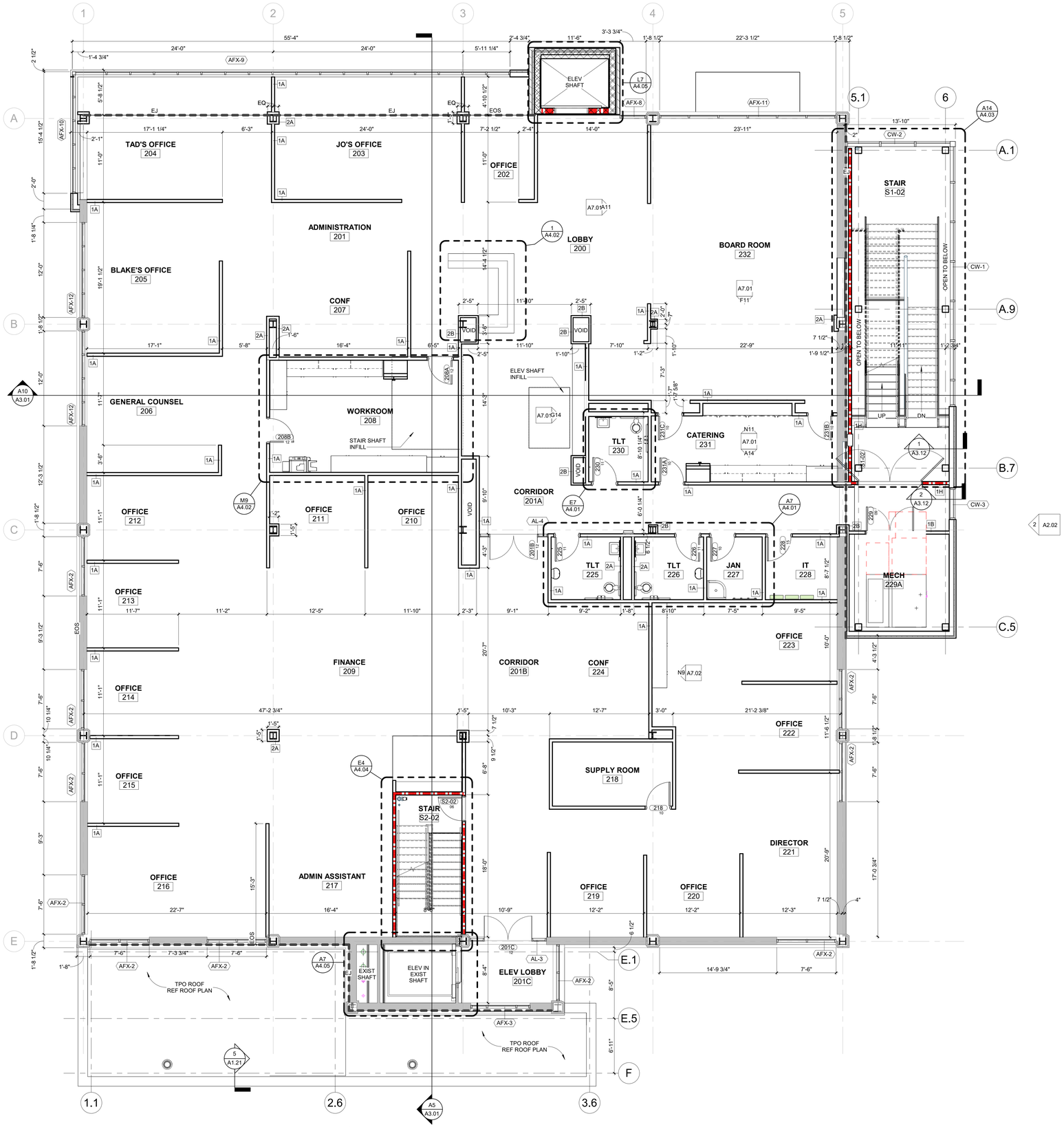

C14 SECOND FLOOR PLAN
3/16" = 1'-0"

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Job No. CENTRA24.00

Date March 28, 2025

Title SECOND FLOOR PLAN

Sheet No. **A1.02**

Project Name
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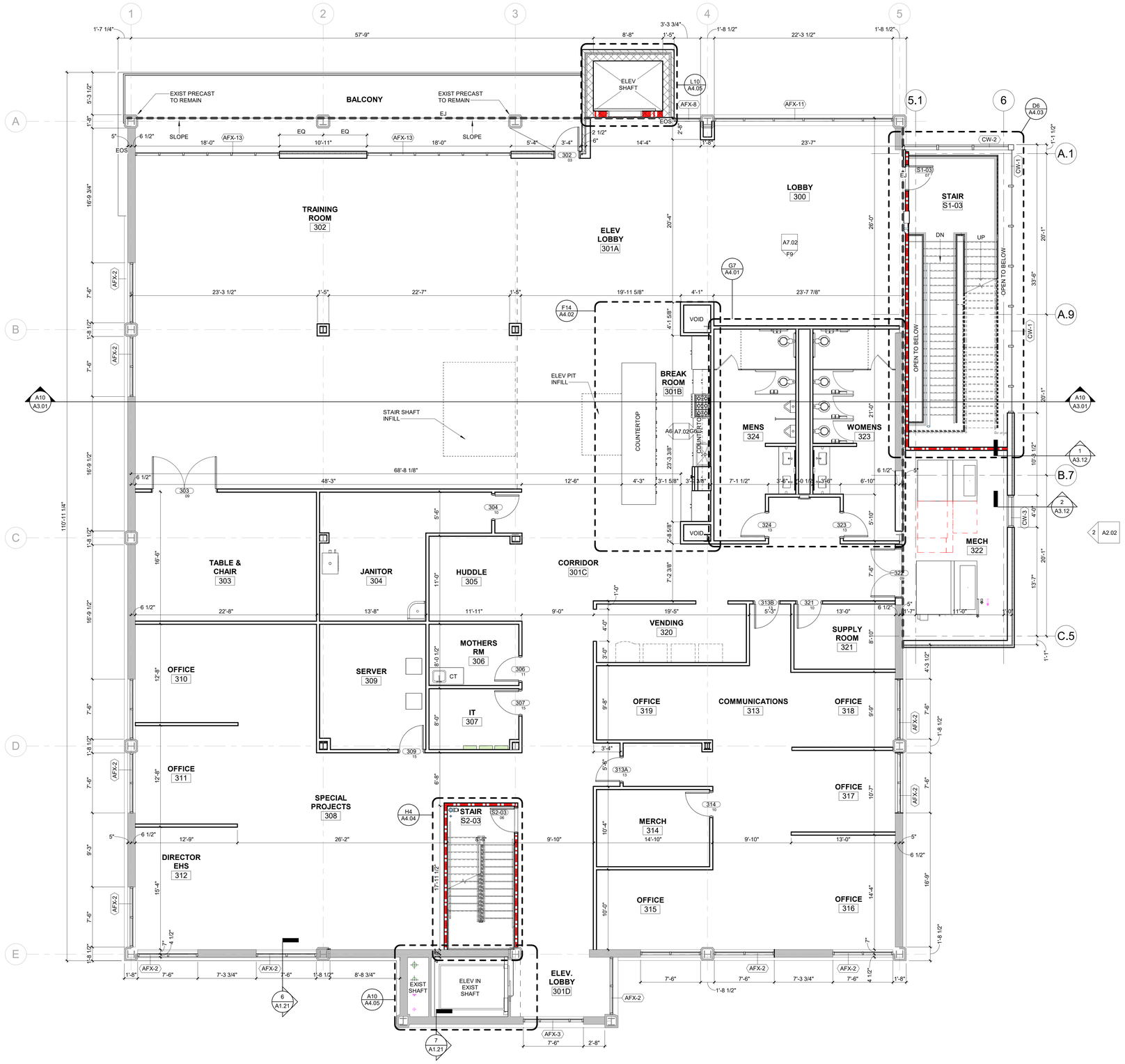
3/29/2025 12:54:08 AM



C14 THIRD FLOOR PLAN
3/16" = 1'-0"

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Date March 28, 2025

Title

THIRD FLOOR PLAN

Sheet No.

A1.03

Project Name
Autodesk Docs://Central Arkansas Water JTH Building Renovations/CENTRA24.00-CAW-JTH_v24.rvt
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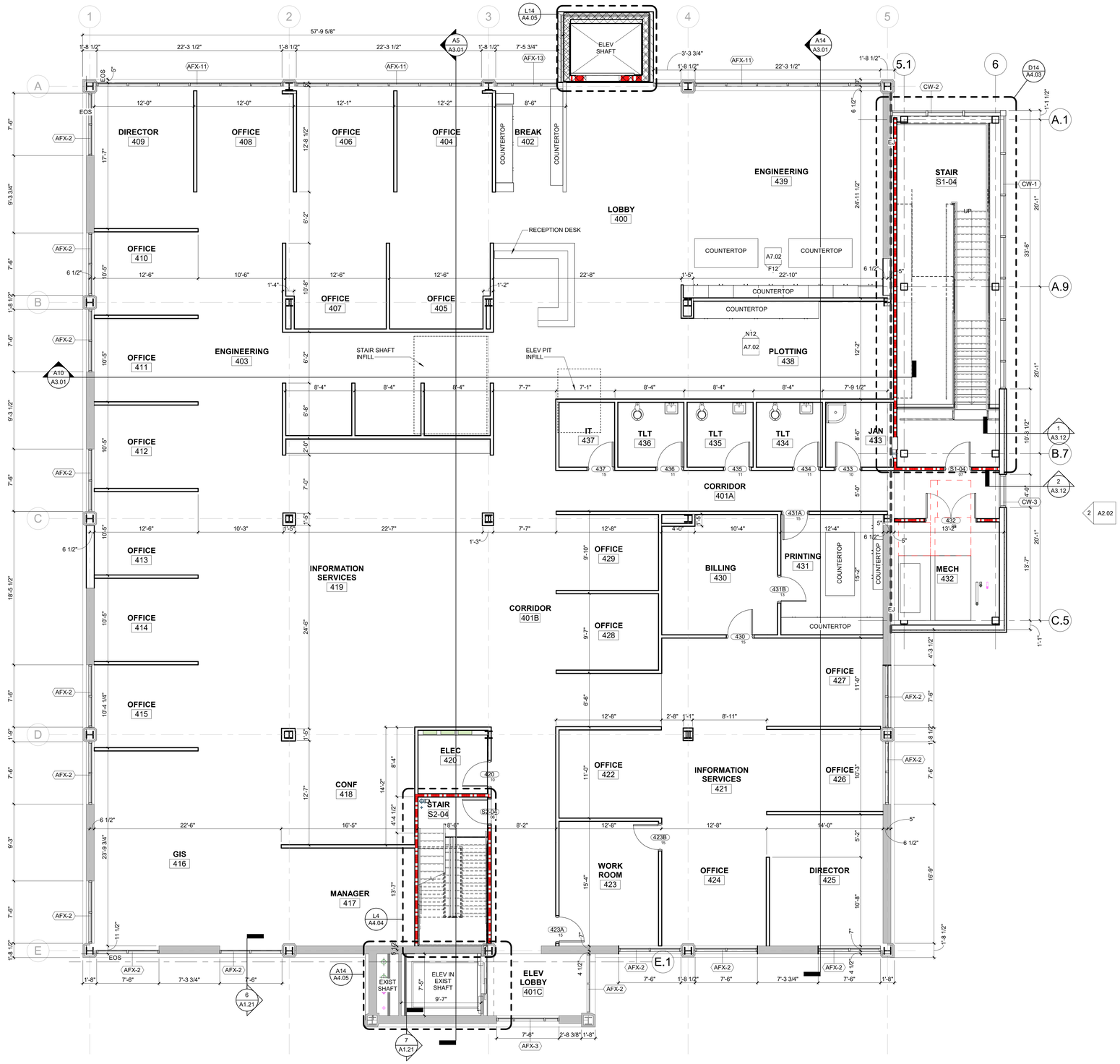

C14 FOURTH FLOOR PLAN
3/16" = 1'-0"

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Date March 28, 2025

Title FOURTH FLOOR PLAN

Sheet No. **A1.04**

Project Name
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1 GROUND FLOOR CEILING PLAN
3/16" = 1'-0"

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GROUND FLOOR RCP

Sheet No.

A1.11

Project Name
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3/29/2025 12:54:15 AM

1 SECOND FLOOR CEILING PLAN
3/16" = 1'-0"

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Date March 28, 2025

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SECOND FLOOR RCP

Sheet No.

A1.12

Project Name
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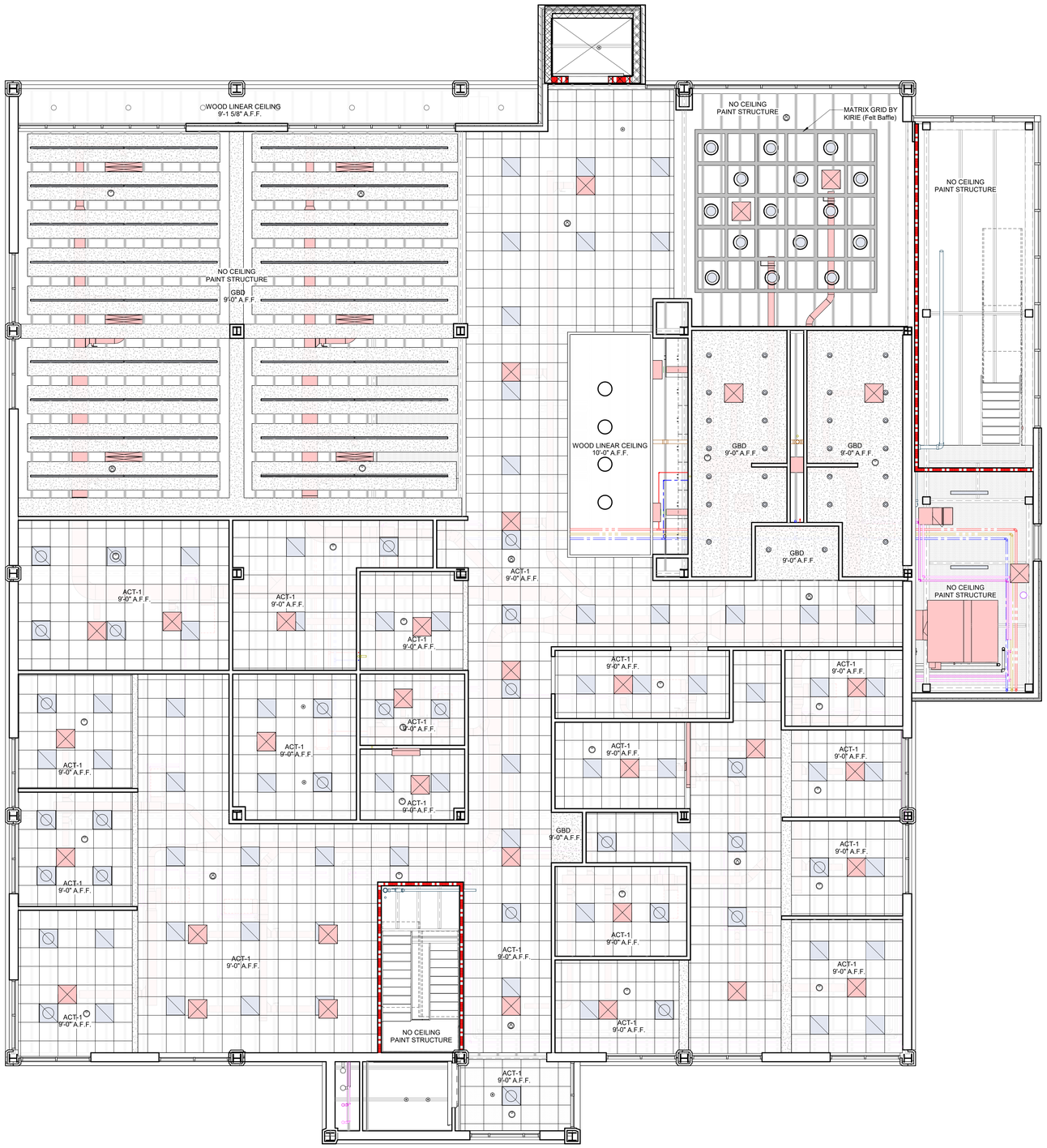

C14 THIRD FLOOR CEILING PLAN
3/16" = 1'-0"

0 4 8 16

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Job No.
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Date
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Title
THIRD FLOOR RCP

Sheet No.
A1.13

Project Name
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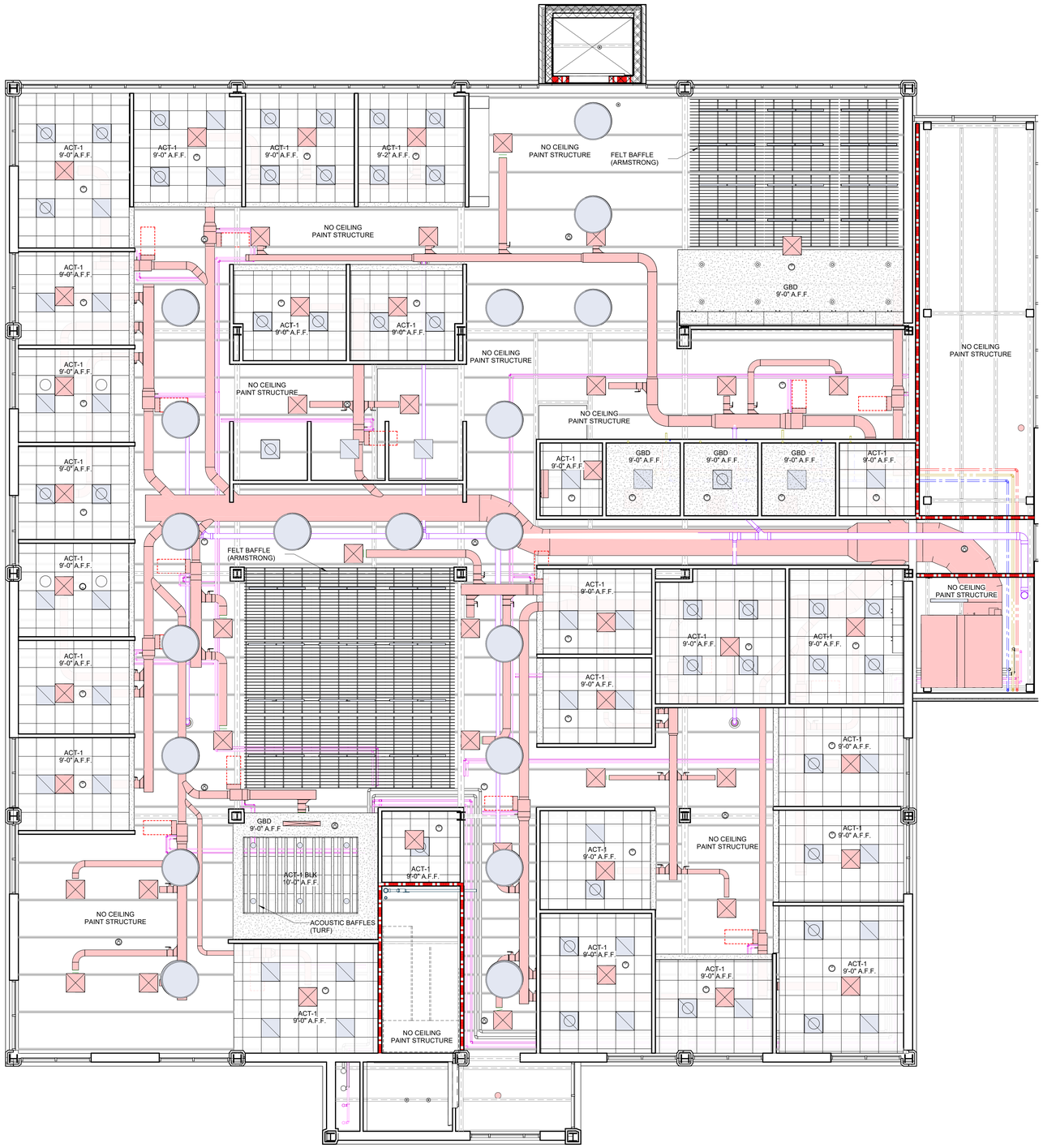

C14 FOURTH FLOOR CEILING PLAN
3/16" = 1'-0"

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Title FOURTH FLOOR RCP

Sheet No. **A1.14**

Project Name
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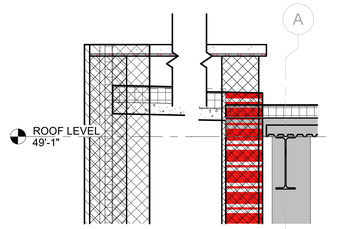
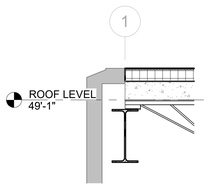
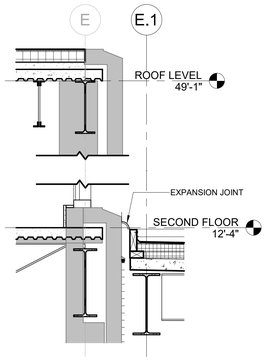
3/29/2025 12:54:23 AM



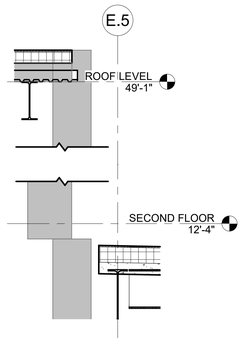
4 ROOF DETAIL - ELEV SHAFT CAP
3/4" = 1'-0"



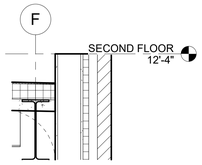
1 ROOF DETAIL - TYP PARAPET AT EXIST PRECAST
3/4" = 1'-0"



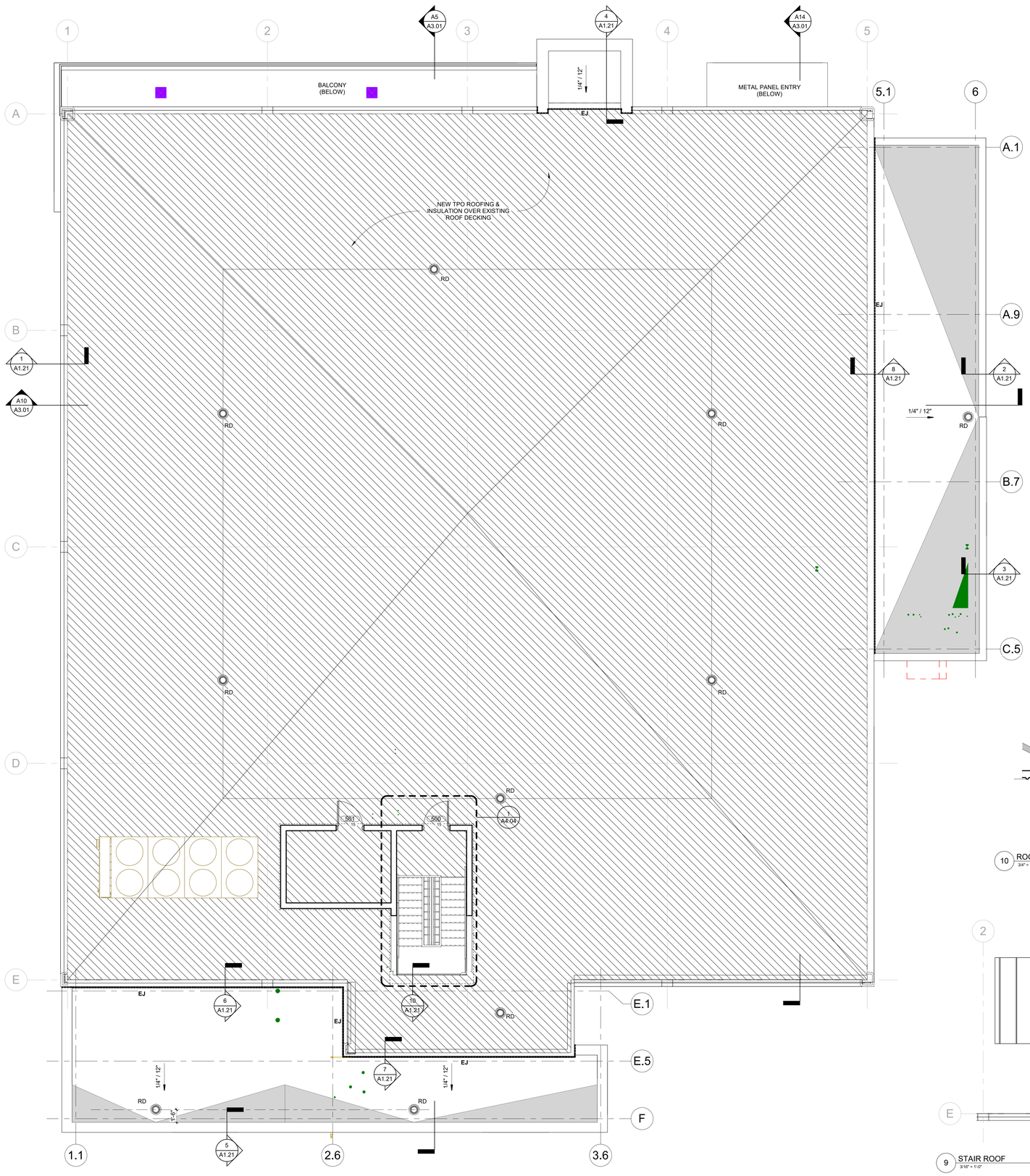
6 ROOF DETAIL - AT SOUTH ADDITION 01
3/4" = 1'-0"



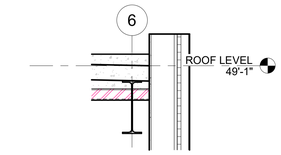
7 ROOF DETAIL - AT SOUTH ADDITION 02
3/4" = 1'-0"



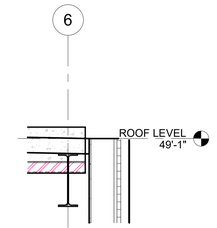
5 ROOF DETAIL - AT SOUTH ADDITION PARAPET
3/4" = 1'-0"



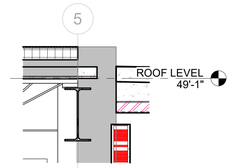
C14 ROOF PLAN
3/16" = 1'-0"



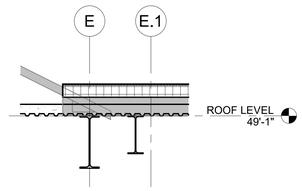
2 ROOF DETAIL - AT EAST STAIR PARAPET 01
3/4" = 1'-0"



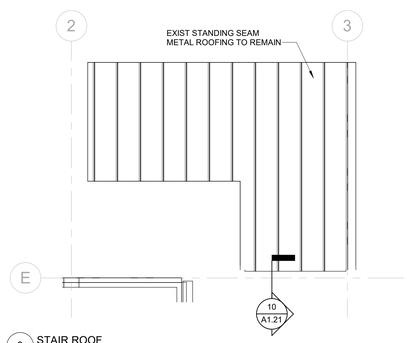
3 ROOF DETAIL - AT EAST STAIR PARAPET 02
3/4" = 1'-0"



8 ROOF DETAIL - AT EAST STAIR
3/4" = 1'-0"



10 ROOF DETAIL - SOUTH STAIR METAL ROOF
3/4" = 1'-0"



9 STAIR ROOF
3/16" = 1'-0"

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ROOF PLAN

Sheet No.

A1.21

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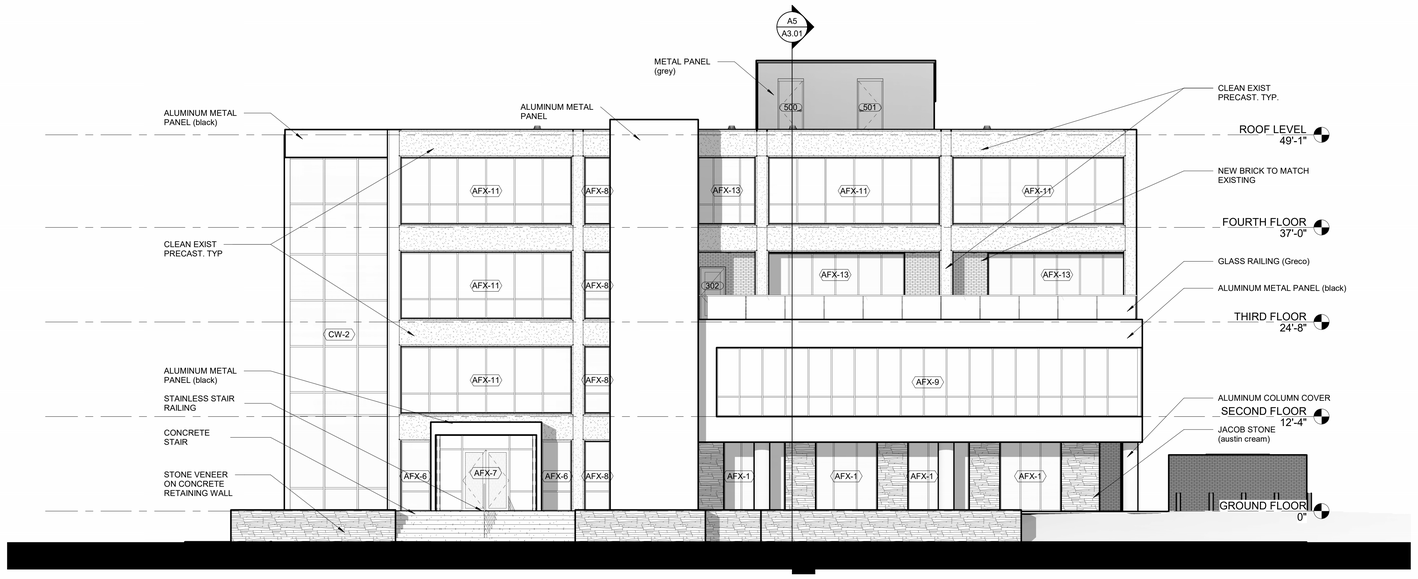
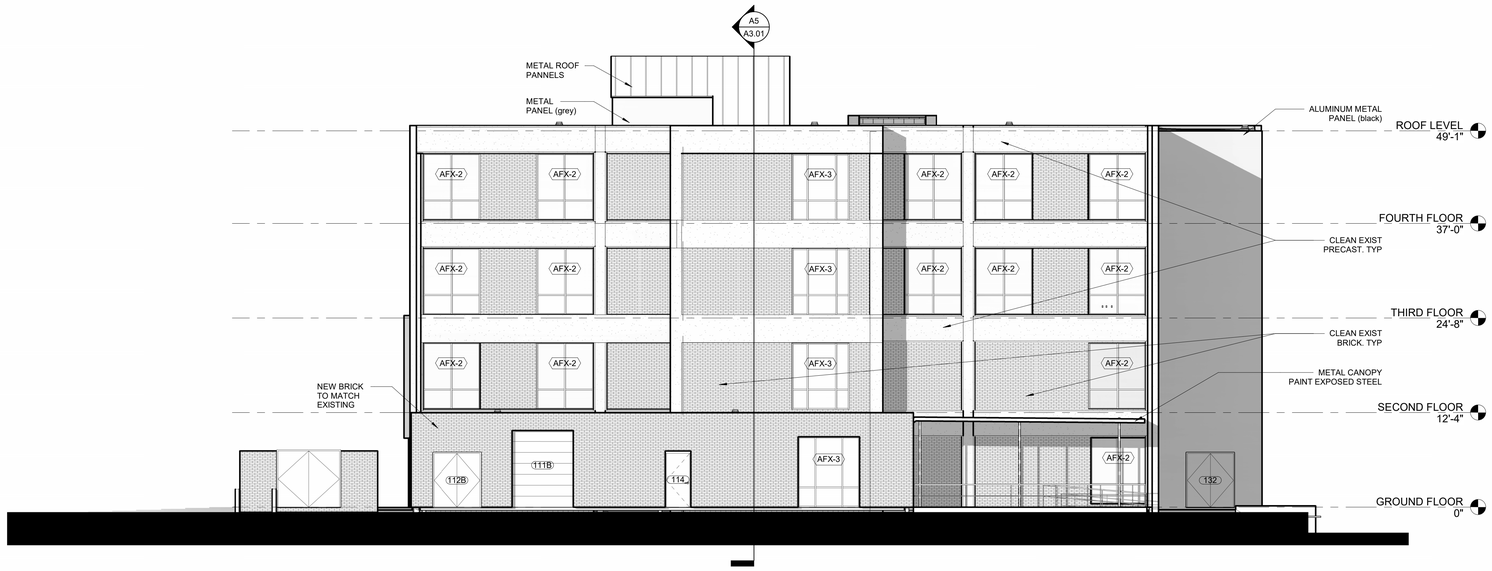


1 North Elevation
1/8" = 1'-0"



2 South Elevation
1/8" = 1'-0"

NOTES

1. EXISTING PRECAST ON EXTERIOR STRUCTURE TO REMAIN UNLESS SPECIFIED TO BE REMOVED

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Title
EXTERIOR ELEVATIONS NORTH & SOUTH

Sheet No.
A2.01

Project Name
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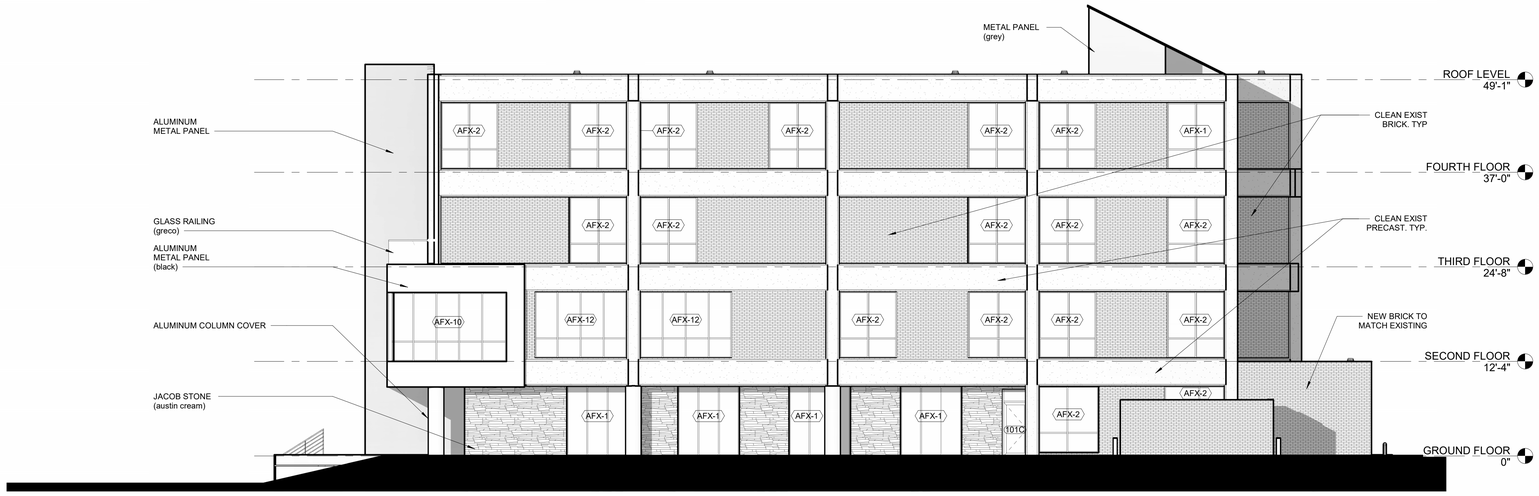
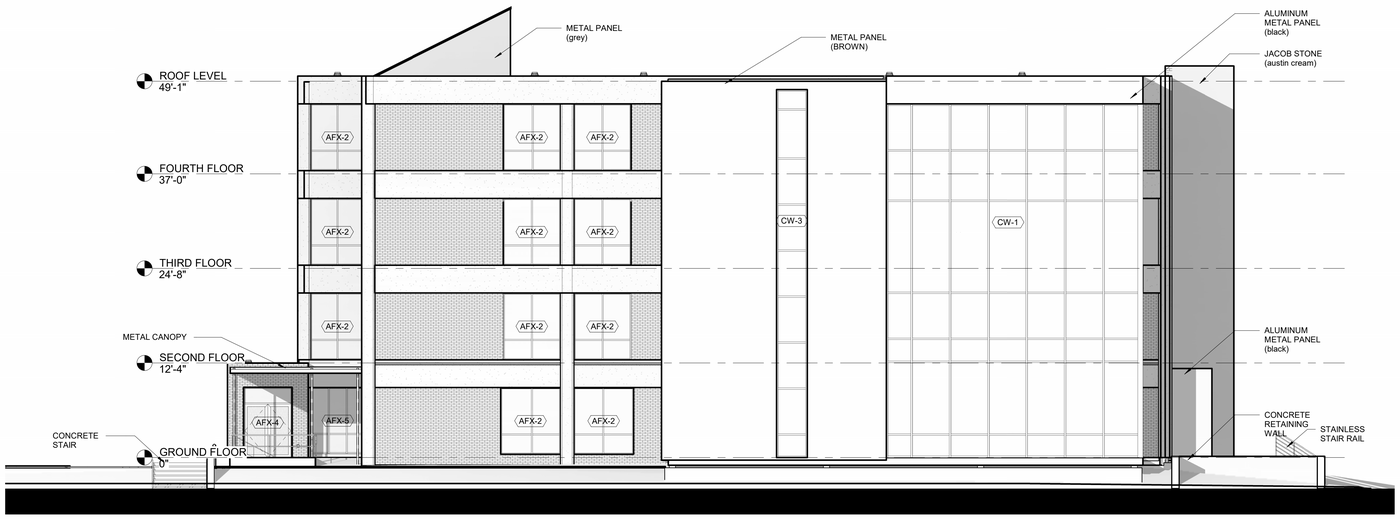


1 WEST ELEVATION
1/8" = 1'-0"



2 East Elevation
1/8" = 1'-0"

NOTES

1. EXISTING PRECAST ON EXTERIOR STRUCTURE TO REMAIN UNLESS SPECIFIED TO BE REMOVED

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Title EXTERIOR ELEVATIONS EAST & WEST

Sheet No. **A2.02**

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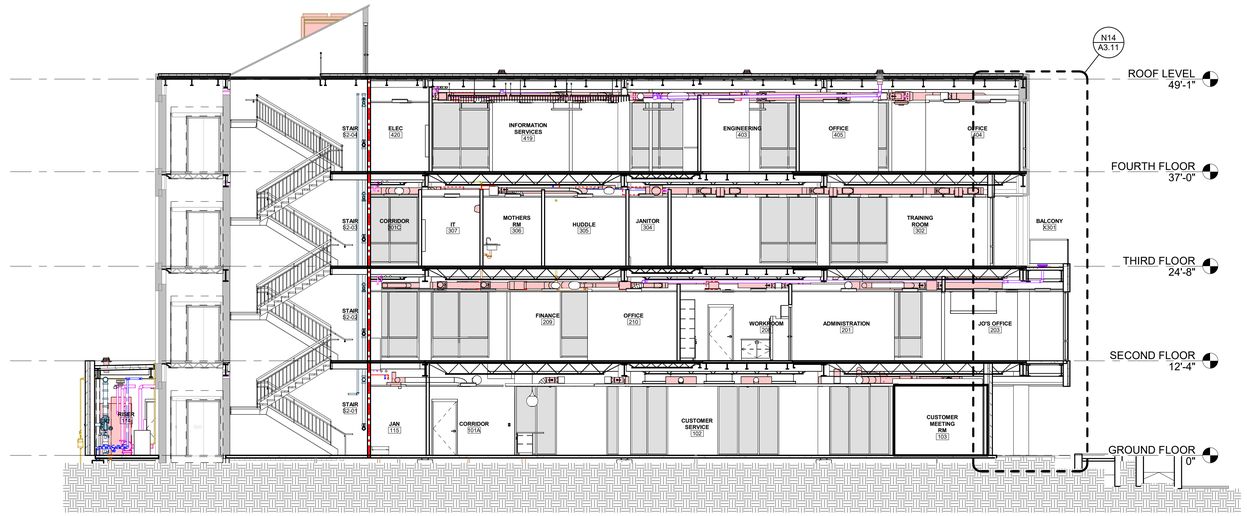
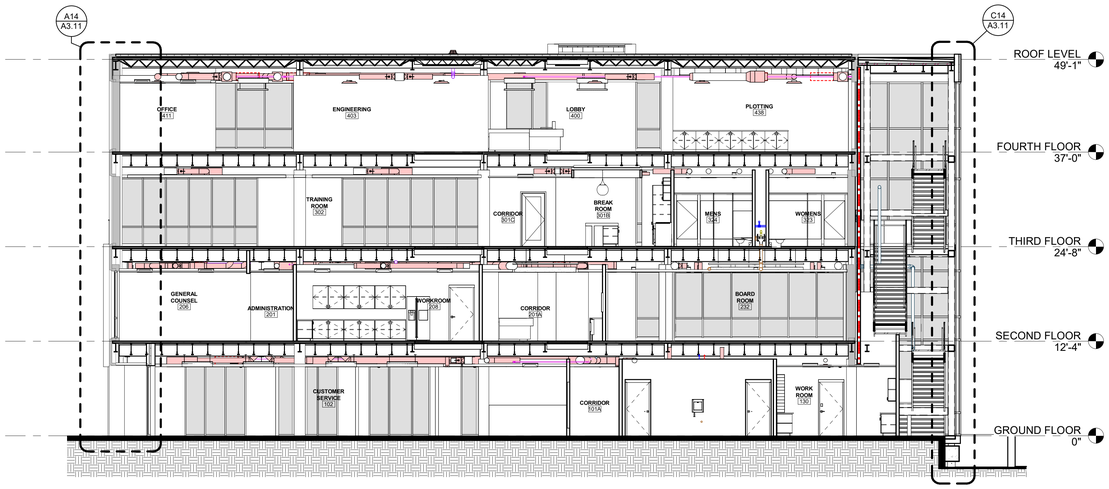
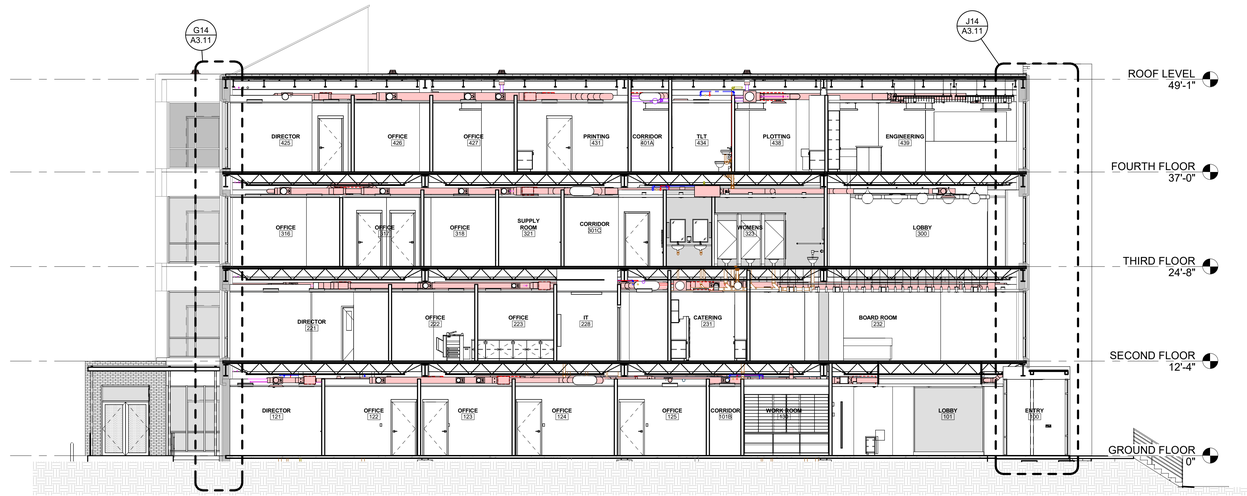


A5 BUILDING SECTION A
1/8" = 1'-0"



A10 BUILDING SECTION C
1/8" = 1'-0"



A14 BUILDING SECTION B
1/8" = 1'-0"

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Job No. CENTRA24.00

Date March 28, 2025

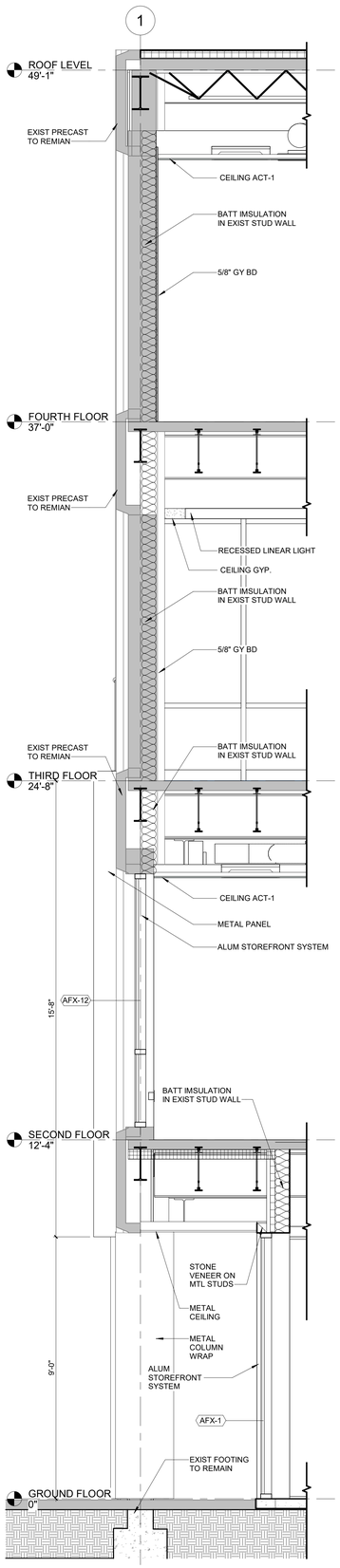
Title

BUILDING SECTIONS

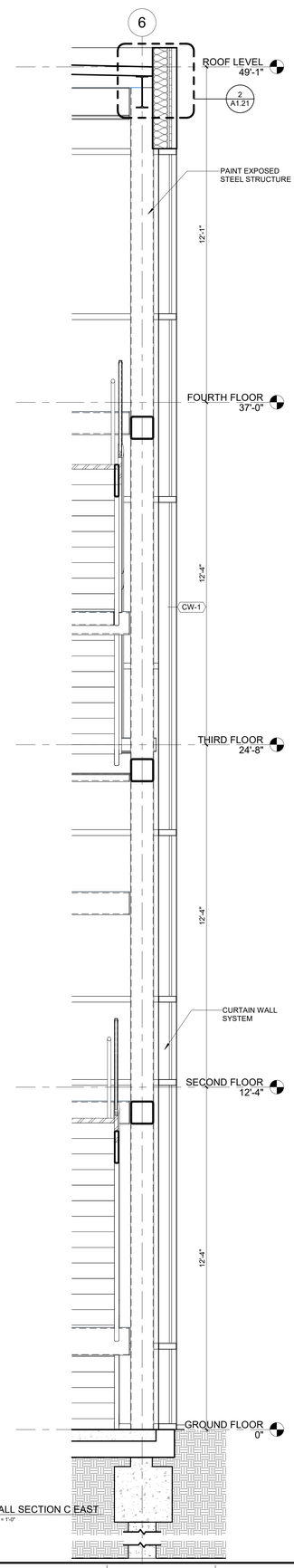
Sheet No.

A3.01

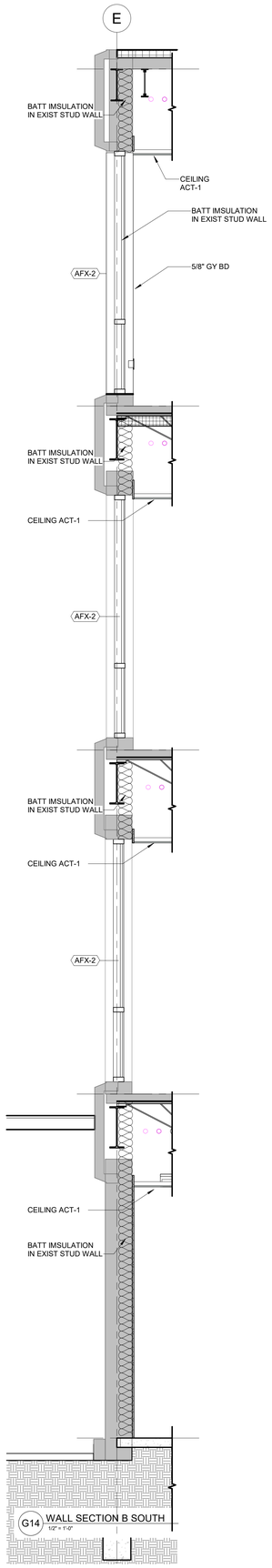
Project Name
Autodesk Docs://Central Arkansas Water JTH Building Renovations/CENTRA24.00-CAW-JTH_v24.rvt
3/29/2025 12:59:03 AM



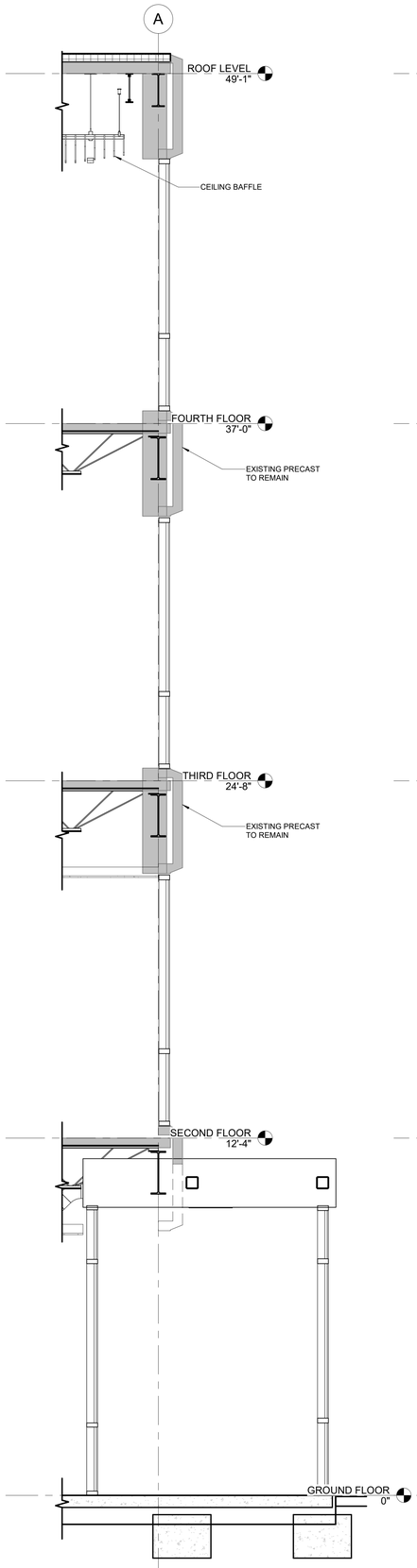
A14 WALL SECTION C WEST
1/2" = 1'-0"



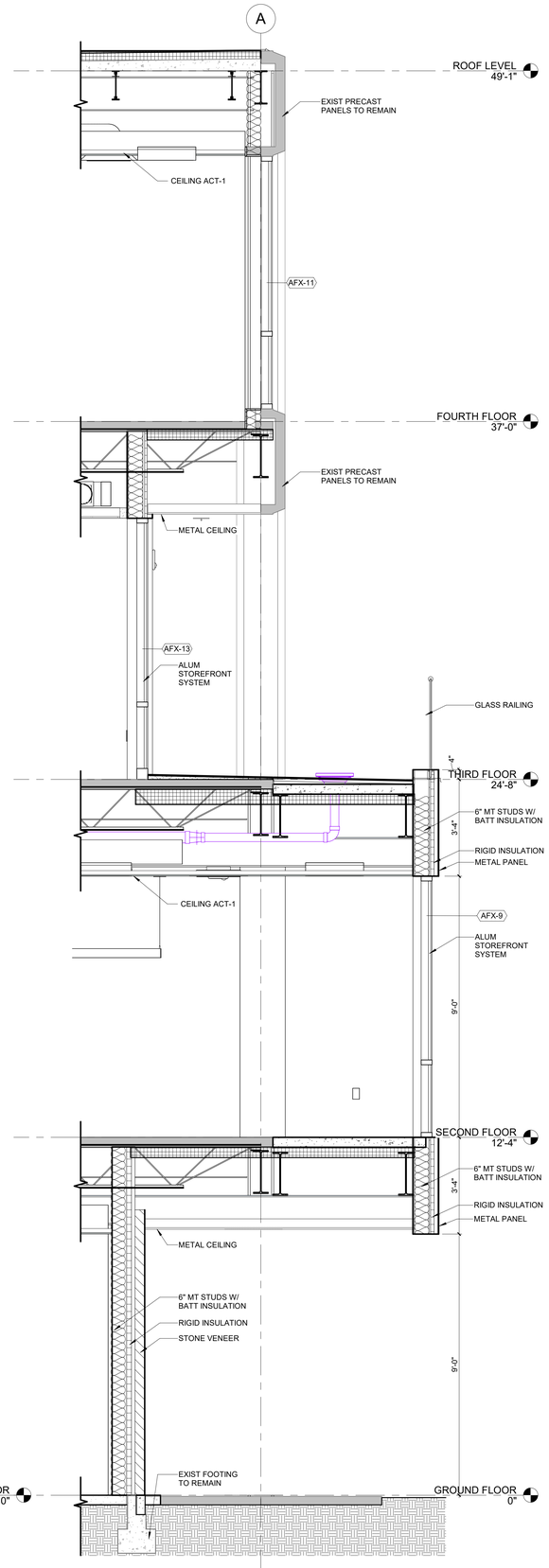
C14 WALL SECTION C EAST
1/2" = 1'-0"



G14 WALL SECTION B SOUTH
1/2" = 1'-0"



J14 WALL SECTION B NORTH
1/2" = 1'-0"



N14 WALL SECTION A NORTH
1/2" = 1'-0"

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Job No. CENTRA24.00

Date March 28, 2025

Title

WALL SECTIONS

Sheet No.

A3.11

Project Norm
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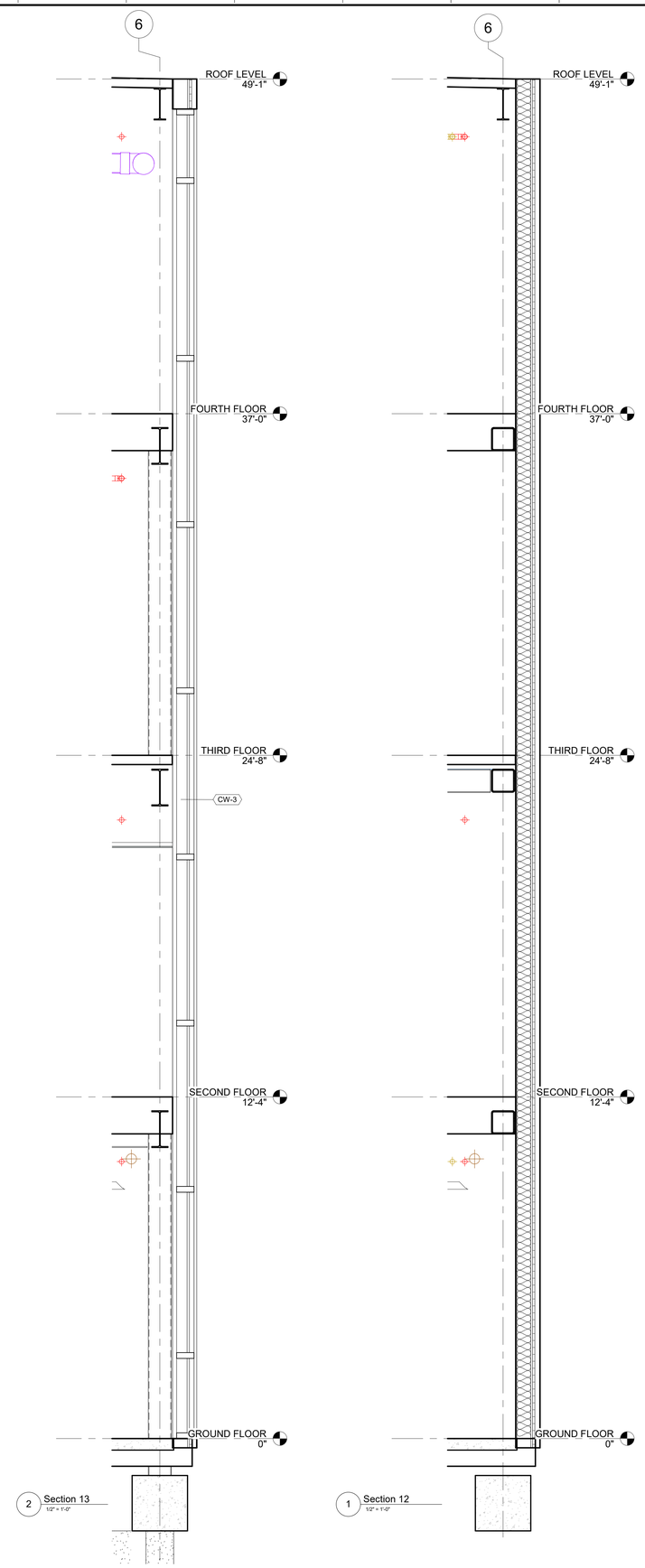
3/29/2025 12:59:05 AM



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Job No. CENTRA24.00

Date March 28, 2025

Title

WALL SECTIONS

Sheet No.

A3.12

Project Name
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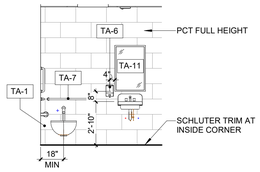
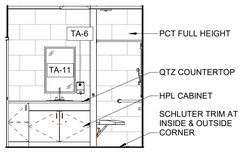
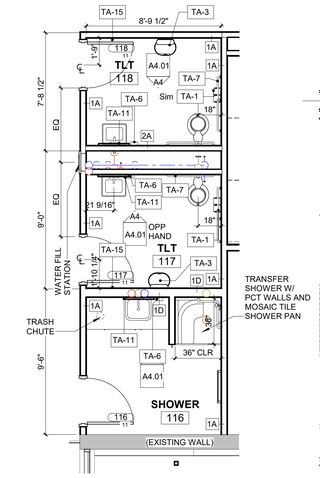


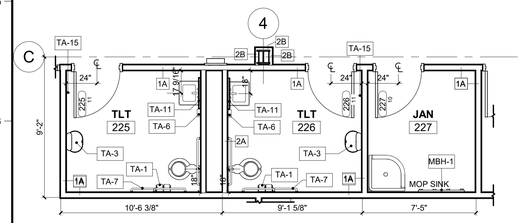
A4 BATHROOM INT ELEV TYP
1/4" = 1'-0"



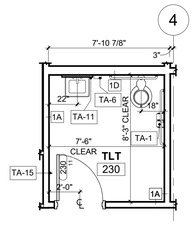
C4 INT ELEV - SHOWER 116
1/4" = 1'-0"



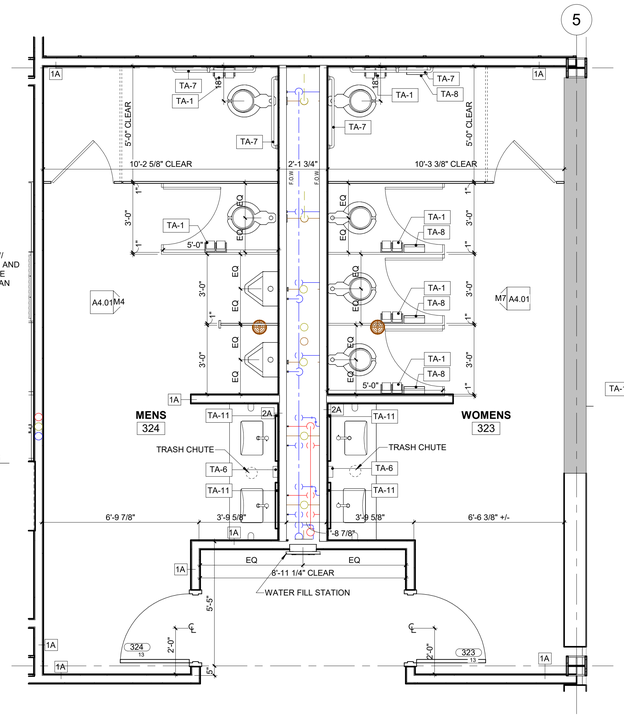
E4 ENLARGED BATHROOM PLANS 1ST FLOOR B
1/4" = 1'-0"



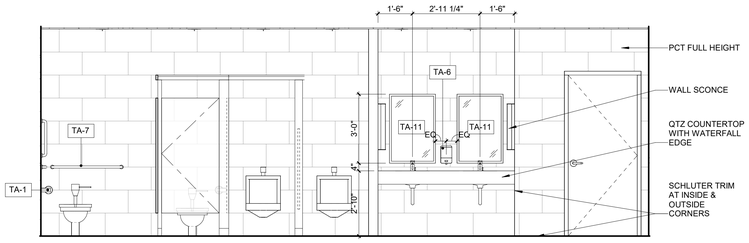
A7 ENLARGED PLAN - SECOND FLOOR TLTS AND JAN
1/4" = 1'-0"



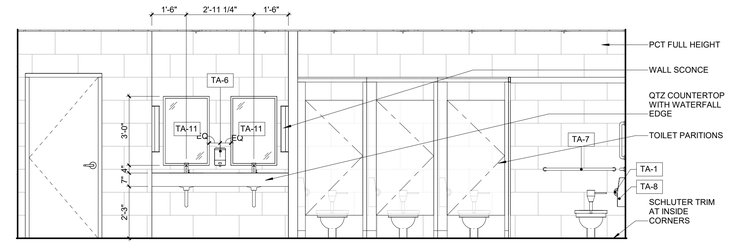
E7 INT ELEV - TLT 230
1/4" = 1'-0"



G7 ENLARGED PLAN - THIRD FLOOR RESTROOMS
3/8" = 1'-0"

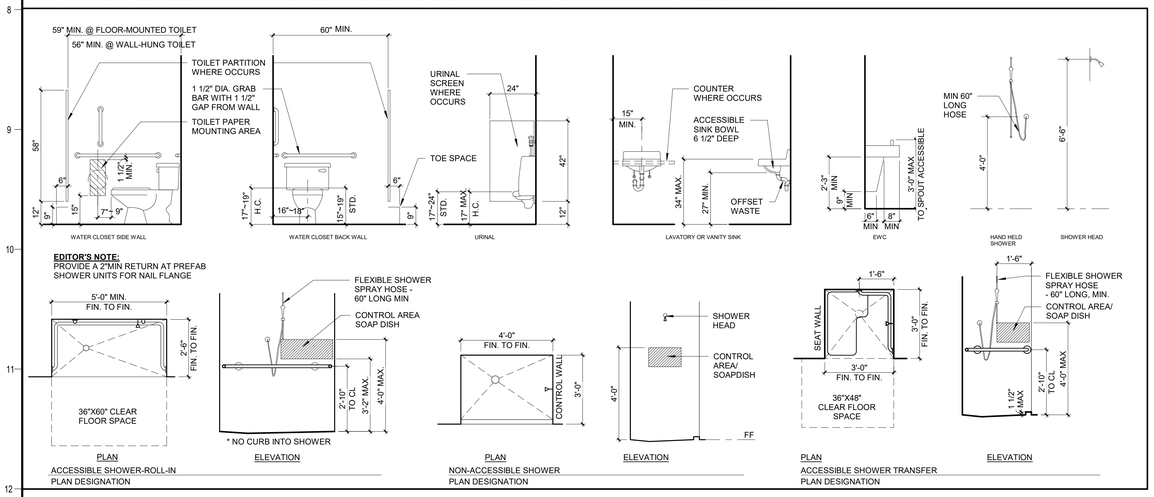


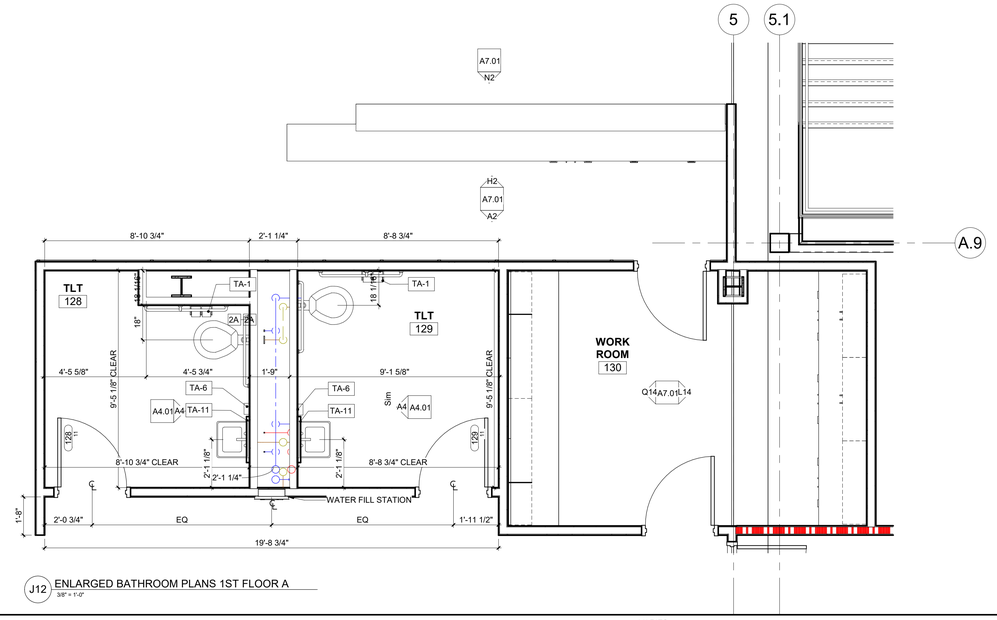
M4 INT. ELEV. - THRID FLOOR MEN'S RESTROOM
3/8" = 1'-0"



M7 INT. ELEV. - THIRD FLOOR WOMEN'S RESTROOM
3/8" = 1'-0"

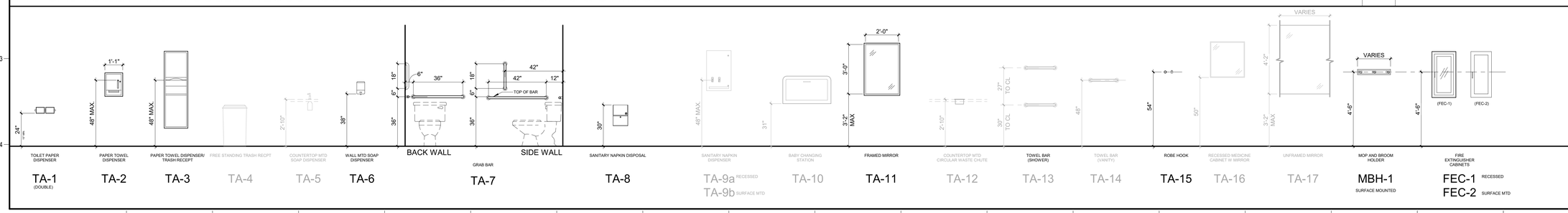
TYPICAL PLUMBING FIXTURES AND ACCESSORIES MOUNTING HEIGHTS





J12 ENLARGED BATHROOM PLANS 1ST FLOOR A
3/8" = 1'-0"

TYPICAL TOILET AND MISCELLANEOUS ACCESSORIES MOUNTING HEIGHTS & SYMBOLS



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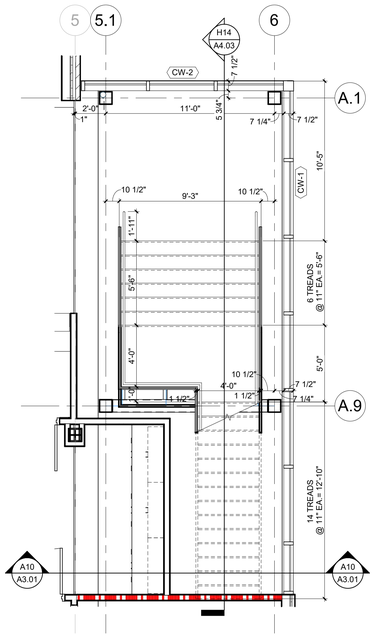
No.	Issue	Date

Job No. CENTRA24.00
Date March 28, 2025
Title

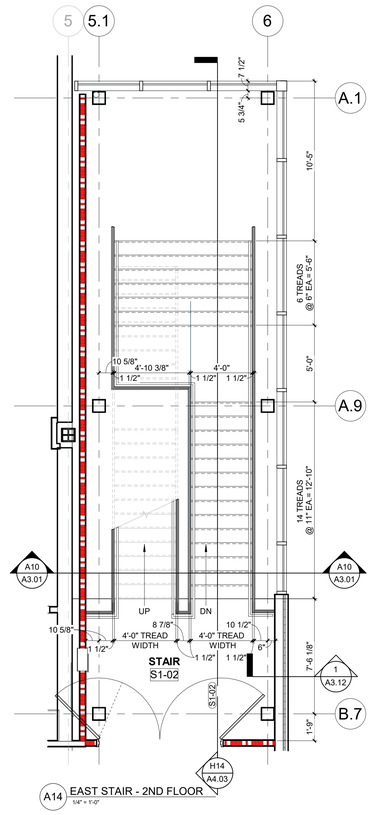
TOILET PLANS

Sheet No.
A4.01

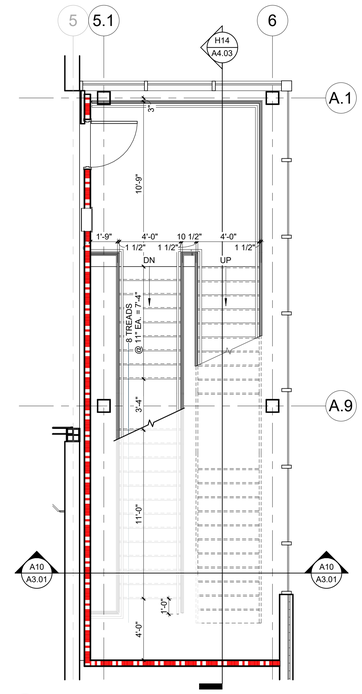
Project Name
Autodesk Docs://Central Arkansas Water JTH Building Renovations/CENTRA24.00-CAW_JTH_v24.rvt
3/29/2025 12:59:09 AM



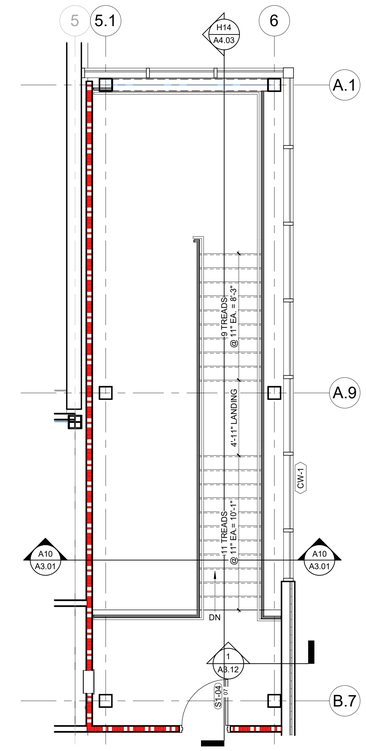
A6 EAST STAIR - 1ST FLOOR
1/4" = 1'-0"



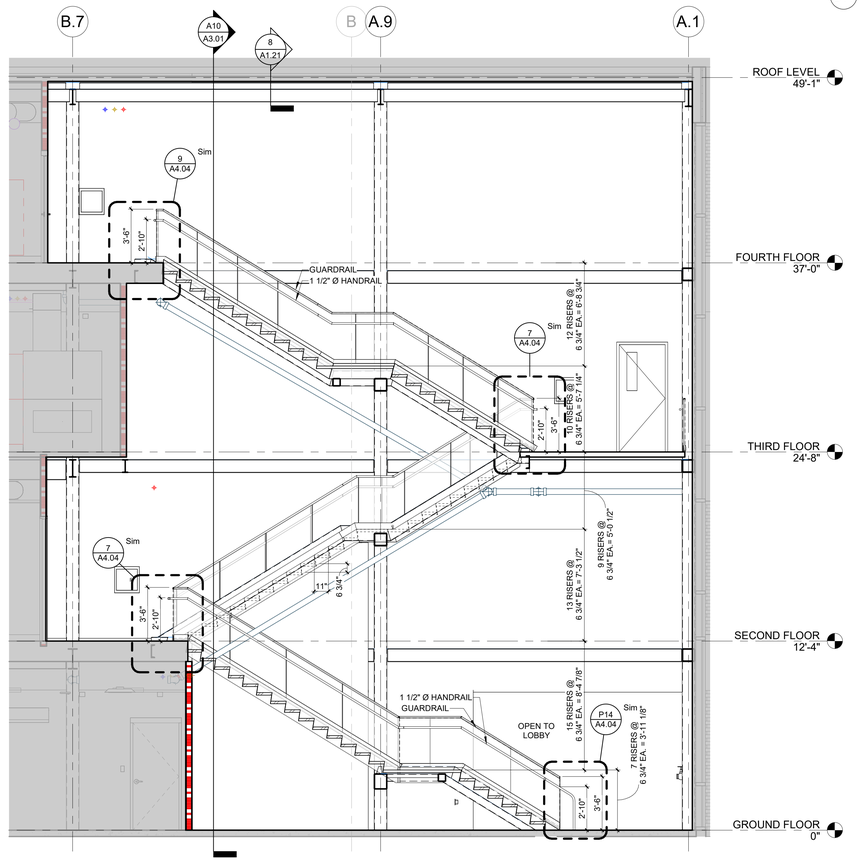
A14 EAST STAIR - 2ND FLOOR
1/4" = 1'-0"



D6 EAST STAIR - 3RD FLOOR
1/4" = 1'-0"



D14 EAST STAIR - 4TH FLOOR
1/4" = 1'-0"



H14 EAST STAIR SECTION
1/4" = 1'-0"

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Job No. CENTRA24.00

Date March 28, 2025

Title

STAIR PLANS & SECTIONS

Sheet No.

A4.03

Project Name
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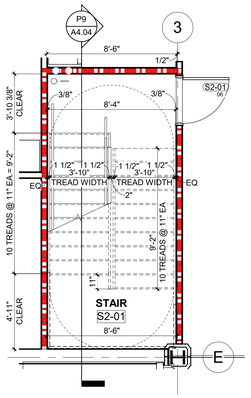
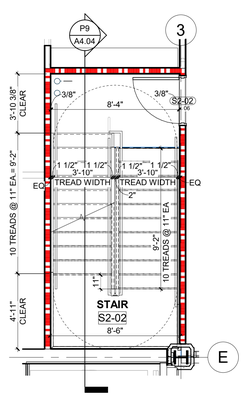
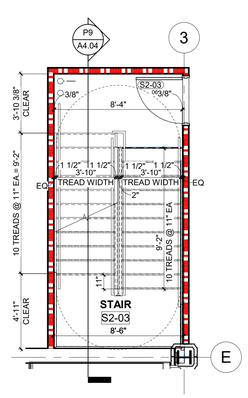


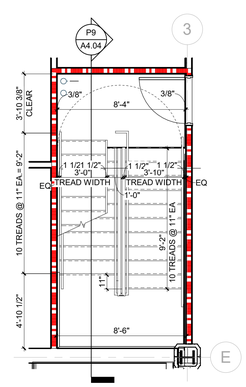
B4 SOUTH STAIR - 1ST FLOOR
1/4" = 1'-0"



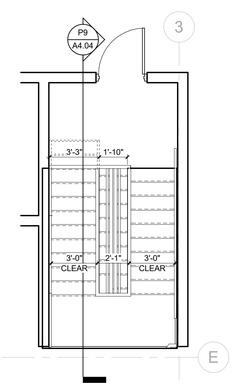
E4 SOUTH STAIR - 2ND FLOOR
1/4" = 1'-0"



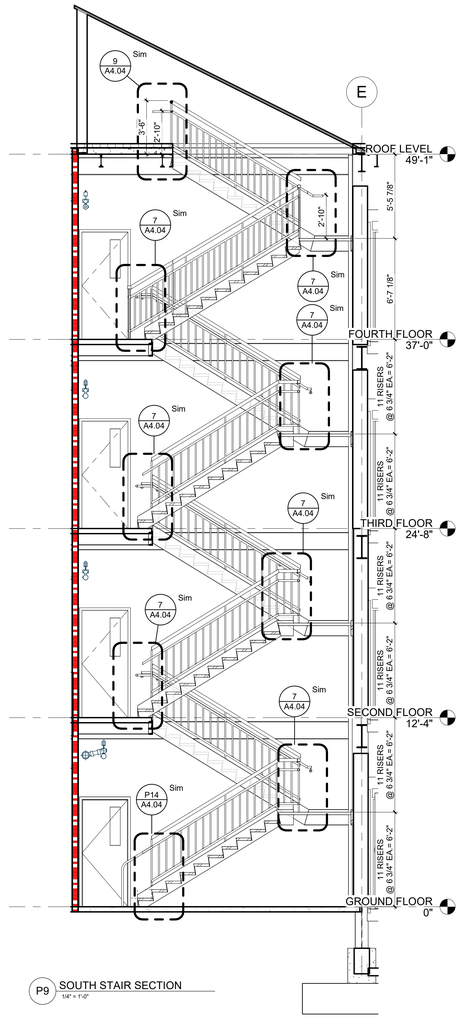
H4 SOUTH STAIR - 3RD FLOOR
1/4" = 1'-0"



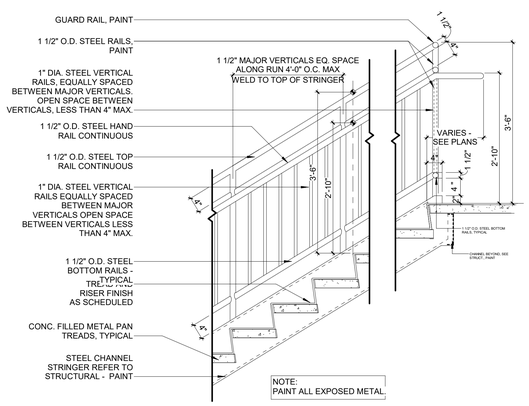
L4 SOUTH STAIR - 4TH FLOOR
1/4" = 1'-0"



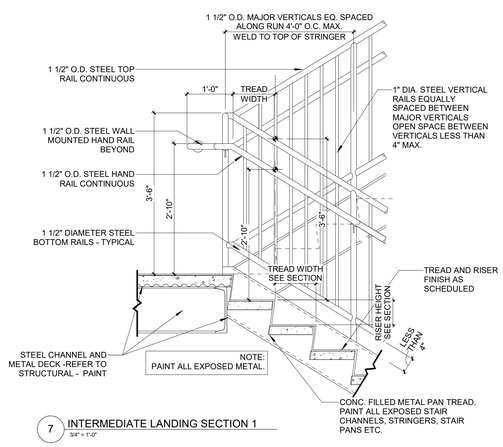
1 SOUTH STAIR - ROOF
1/4" = 1'-0"



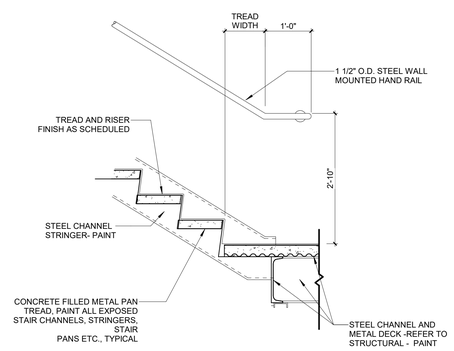
P9 SOUTH STAIR SECTION
1/4" = 1'-0"



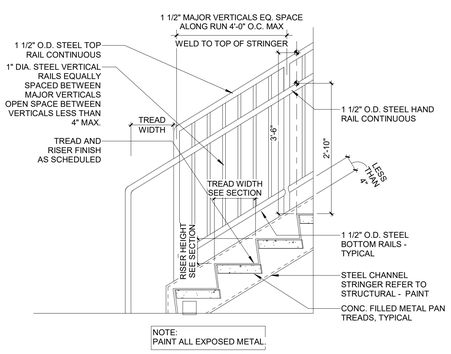
9 TOP LANDING/ GUARDRAIL SECTION
3/4" = 1'-0"



7 INTERMEDIATE LANDING SECTION 1
3/4" = 1'-0"



J14 INTERMEDIATE LANDING SECTION @ WALL
3/4" = 1'-0"



P14 BOTTOM OF STAIR RUN
3/4" = 1'-0"

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Job No. CENTRA24.00

Date March 28, 2025

Title

STAIR PLANS & SECTIONS

Sheet No.

A4.04

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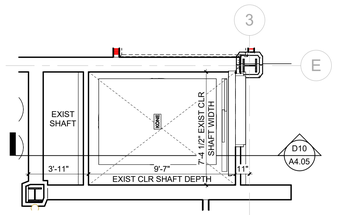
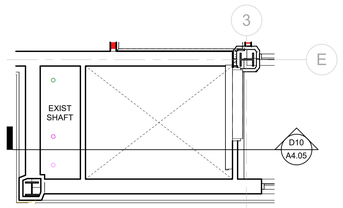
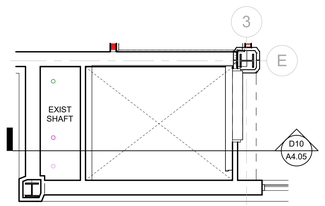
3/29/2025 12:59:14 AM



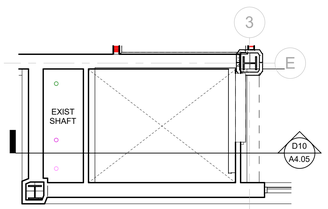
A3 ENLARGED SOUTH ELEV PLAN - 1ST FLOOR
1/4" = 1'-0"



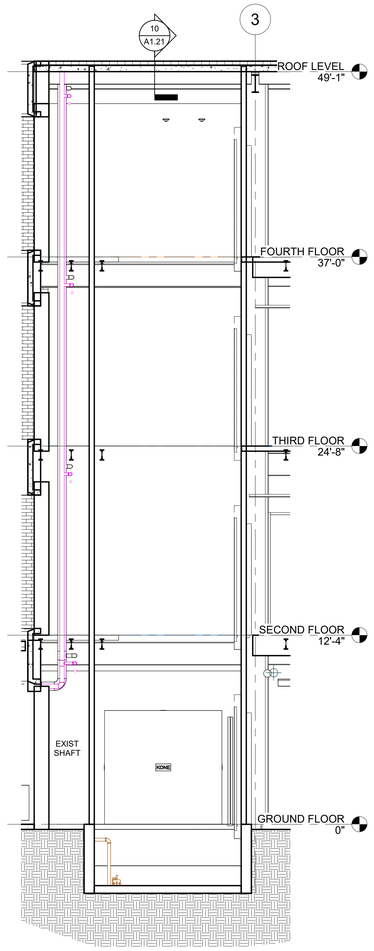
A7 ENLARGED SOUTH ELEV PLAN - 2ND FLOOR
1/4" = 1'-0"



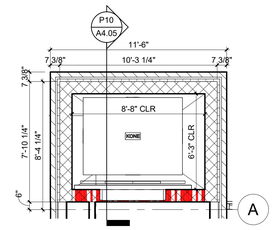
A10 ENLARGED SOUTH ELEV PLAN - 3RD FLOOR
1/4" = 1'-0"



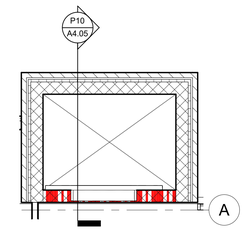
A14 ENLARGED SOUTH ELEV PLAN - 4TH FLOOR
1/4" = 1'-0"



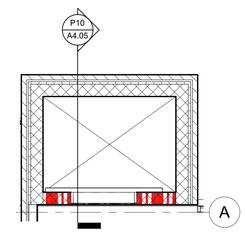
D10 SOUTH ELEVATOR SECTION
1/4" = 1'-0"



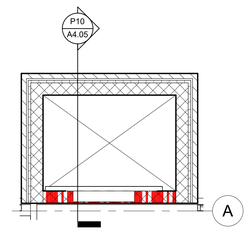
L3 ENLARGED NORTH ELEV PLAN - 1ST FLOOR
1/4" = 1'-0"



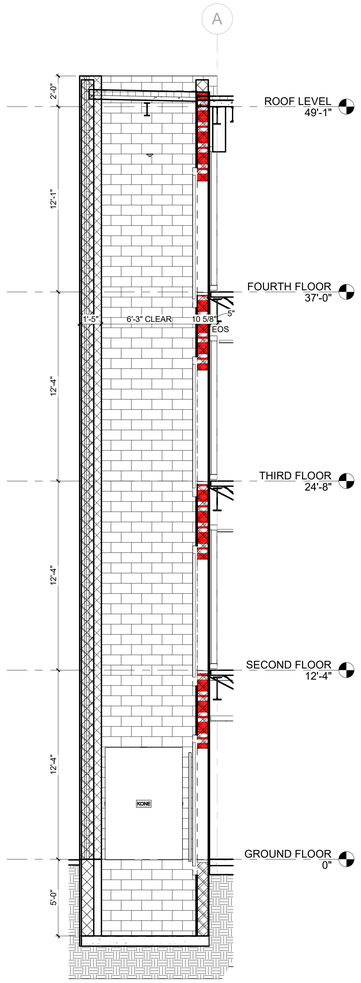
L7 ENLARGED NORTH ELEV PLAN - 2ND FLOOR
1/4" = 1'-0"



L10 ENLARGED NORTH ELEV PLAN - 3RD FLOOR
1/4" = 1'-0"



L14 ENLARGED NORTH ELEV PLAN - 4TH FLOOR
1/4" = 1'-0"



P10 NORTH ELEVATOR SECTION
1/4" = 1'-0"

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No.	Issue	Date

Job No. CENTRA24.00

Date March 28, 2025

Title

ELEVATOR PLANS & SECTIONS

Sheet No.

A4.05

Project Name
Autodesk Docs://Central Arkansas Water /JTH Building Renovations/CENTRA24.00-CAW_JTH_v24.rvt
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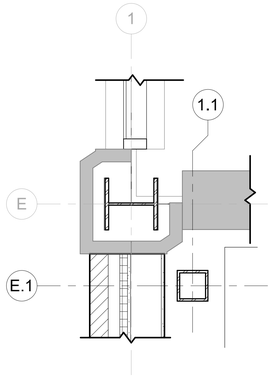

1 PLAN DETAIL - GRIDS E & 1
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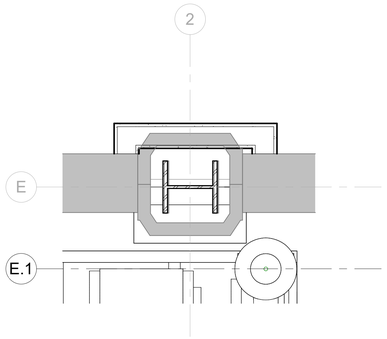

2 PLAN DETAIL - GRIDS E & 2
1" = 1'-0"

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Date March 28, 2025

Title DETAILS

Sheet No. **A5.01**

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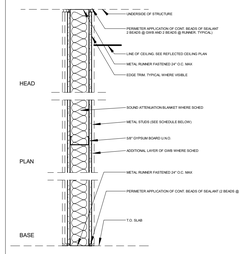
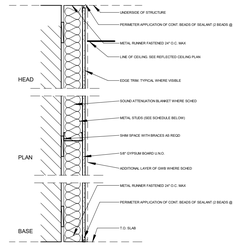


1ST LAYER / 2ND LAYER

TYPE	STUD SIZE / SPACING (TOTAL WALL WIDTH: "INCHES")	MAX HEIGHT / MIN. GAUGE	INSUL. THICKNESS / STC TEST	FIRE RATING / TEST DESIGN	REMARKS
1A	3 5/8" / 16" O.C. (TOTAL WALL WIDTH: 4 7/8")	15'-4" / 20	3" / 49 SA-870717		
1B	3 5/8" / 16" O.C. (TOTAL WALL WIDTH: 4 7/8")	15'-4" / 20	NONE / 40 USG-860808		
1C	3 5/8" / 16" O.C. (TOTAL WALL WIDTH: 4 7/8")	15'-4" / 20	NONE / 40 USG-860808		EXTEND GYP. BD. 6" ABOVE CEILING, SEE GENERAL NOTE 13
1D	6" / 16" O.C. (TOTAL WALL WIDTH: 7 1/4")	19'-9" / 20	3" / 49 SA-870717		
1E	3 5/8" / 16" O.C. (TOTAL WALL WIDTH: 5 3/8")	15'-4" / 20	3" / 54 RAL-TL-83-216		SEE GENERAL NOTE 7
1F	6" / 16" O.C. (TOTAL WALL WIDTH: 7 3/4")	19'-9" / 20	3" / 54 RAL-TL-83-216		SEE GENERAL NOTE 7
1G	3 5/8" / 16" O.C. (TOTAL WALL WIDTH: 5 3/8")	15'-4" / 20	3" / 54 RAL-TL-83-216	1 HR / UL-U419	SEE GENERAL NOTE 7
1H	3 5/8" / 16" O.C. (TOTAL WALL WIDTH: 4 7/8")	15'-4" / 20	NONE / 40 USG-860808	1 HR / UL-U419	
1J	3 5/8" / 16" O.C. (TOTAL WALL WIDTH: 4 7/8")	15'-4" / 20	3" / 49 SA-870717	1 HR / UL-U419	
1K	3 5/8" / 16" O.C. (TOTAL WALL WIDTH: 6 1/8")	15'-4" / 20	NONE / N/A	2 HR / UL-U419	
1L	3 5/8" / 16" O.C. (TOTAL WALL WIDTH: 6 1/8")	15'-4" / 20	3" / N/A	2 HR / UL-U419	
1M	3 5/8" / 16" O.C. (TOTAL WALL WIDTH: 4 7/8")	15'-4" / 20	N/A		EXTEND STUDS & G.B. AT ONE SIDE TO DECK. SEAL SMOKE TIGHT. SEE GENERAL NOTE 7. SEE GENERAL NOTE 13

(NOTE: SOME PARTITION TYPES LISTED MAY NOT BE USED)

1 STUD WALL

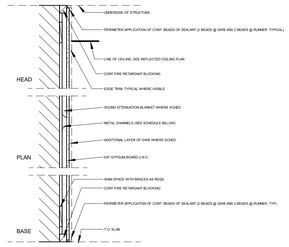


1ST LAYER

TYPE	STUD SIZE / SPACING (TOTAL WALL WIDTH: "VARIES")	MAX HEIGHT / MIN. GAUGE	INSUL. THICKNESS / STC TEST	FIRE RATING / TEST DESIGN	REMARKS
2A	3 5/8" / 16" O.C. (TOTAL WALL WIDTH: 4 1/4")	N/A / 20	NONE / N/A	NONE / N/A	EXTEND GYP. BD. 6" ABOVE CEILING. SEE GENERAL NOTE 13
2B	2 1/2" / 16" O.C. (TOTAL WALL WIDTH: 3 1/8")	N/A / 20	NONE / N/A	NONE / N/A	EXTEND GYP. BD. 6" ABOVE CEILING. SEE GENERAL NOTE 13

(NOTE: SOME PARTITION TYPES LISTED MAY NOT BE USED)

2 FURRING WALL

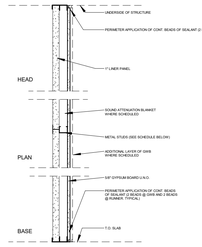


1ST LAYER

TYPE	STUD SIZE / SPACING (TOTAL WALL WIDTH: "VARIES")	MAX HEIGHT / MIN. GAUGE	INSUL. THICKNESS / STC TEST	FIRE RATING / TEST DESIGN	REMARKS
3A	7/8" / 16" O.C. (TOTAL WALL WIDTH: "1 1/2")	N/A / 20	NONE / N/A	NONE / N/A	EXTEND GYP. BD. 6" ABOVE CEILING. SEE GENERAL NOTE 13

(NOTE: SOME PARTITION TYPES LISTED MAY NOT BE USED)

3 FURRING CHANNELS

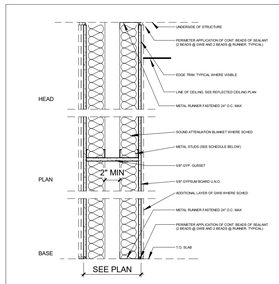


LINER PANEL / 1ST LAYER

TYPE	STUD SIZE / SPACING (TOTAL WALL WIDTH: "VARIES")	MAX HEIGHT / MIN. GUAGE	INSUL. THICKNESS / STC TEST	FIRE RATING / TEST DESIGN	REMARKS
4A	1" LINER PANEL; 2 1/2" C-H / 24" O.C. (TOTAL WALL WIDTH: 3 1/8")	12'-0" / 20	1" / 48 RAL-0T-04-022	1 HR / UL-U415	
4B	1" LINER PANEL; 4" C-H / 24" O.C. (TOTAL WALL WIDTH: 4 5/8")	14'-0" / 20	1 1/2" / 48 RAL-0T-04-019	1 HR / UL-U415	

(NOTE: SOME PARTITION TYPES LISTED MAY NOT BE USED)

4 SHAFT WALL



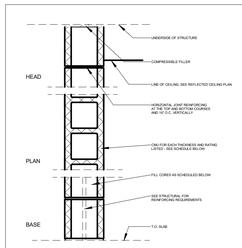
1ST LAYER / AIR SPACE / 1ST LAYER

TYPE	STUD SIZE / SPACING	STUD SIZE / SPACING (TOTAL WALL WIDTH: "VARIES")	MAX HEIGHT / MIN. GAUGE	INSUL. THICKNESS / STC TEST	NONE / TEST DESIGN	REMARKS

(NOTE: SOME PARTITION TYPES LISTED MAY NOT BE USED)

	5/8"	1' - 5 3/4"	5/8"			
5A	2 1/2 / 16" O.C.	2 1/2 / 16" O.C. (TOTAL WALL WIDTH: 24")		17'-6" / 20	3 1/2" (1 SIDE) / 48 RAL-TL-76-155	1 HR / UL-U420

5 CHASE WALL



TYPE	NOMINAL SIZE / SPACING (TOTAL WALL WIDTH: "INCHES")	MAX HEIGHT / MIN. GAUGE	INSUL. THICKNESS / STC TEST	FIRE RATING / TEST DESIGN	REMARKS
6A	8" / N/A (TOTAL WALL WIDTH: 7 5/8"")	N/A	NONE / N/A	N/A	SEE GENERAL NOTE 14
6B	6" / N/A (TOTAL WALL WIDTH: 5 5/8"")	N/A	NONE / N/A	N/A	SEE GENERAL NOTE 14
6C	4" / N/A (TOTAL WALL WIDTH: 3 5/8"")	N/A	NONE / N/A	N/A	SEE GENERAL NOTE 14

(NOTE: SOME PARTITION TYPES LISTED MAY NOT BE USED)

6 CMU

GENERAL NOTES

1. SEE PARTITION DETAIL DRAWINGS AND PROJECT SPECIFICATIONS FOR SEISMIC DETAILS AND PERFORMANCE CRITERIA FOR ALL STUD WALL PARTITIONS.

2. INSTALL CEMENTITIOUS BACKER BOARD IN LIEU OF GYPSUM WALL BOARD IN LOCATIONS INDICATED TO RECEIVE WALL TILE.

3. INSTALL WATER RESISTANT WALL BOARD AT ALL WALL SURFACES IN TOILET ROOMS, JANITORS CLOSETS, AND SIMILAR WET AREAS NOT INDICATED TO RECEIVE WALL TILE. INSTALL MINIMUM 2' PAST EDGE OF FIXTURE AND 24" VERTICALLY ABOVE FIXTURE AT SINGLE FIXTURE LOCATIONS.

4. INSTALL TYPE "X" FIRE RATED GYPSUM BOARD AT ALL FIRE RATED PARTITIONS.

5. INSTALL "BLUESKIN" GYPSUM WALL BOARD AT PARTITIONS INDICATED TO RECEIVE SKIMCOAT PLASTER.

6. STC RATINGS PROVIDE ONLY A GENERAL INDICATION OF ACOUSTIC PERFORMANCE. ACOUSTICAL SEALANT MUST BE INSTALLED AS SHOWN IN DETAILS DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS DEPEND THE SPECIFIC REQUIREMENTS FOR THE WORK.

7. SHIM EXTRA LAYER OF GYPSUM WALL BOARD AT ASYMMETRICAL PARTITIONS TO ALIGN FACE OF THE INSIDE SIDE OF THE PARTITION ON WHICH THE TYPE KEY IS SHOWN.

8. SEE SPECIFICATION FOR ALL FIRE RESISTANT JOINT SYSTEMS FOR LOCATIONS MEETING METAL DECK, MASONRY, CONCRETE OR OTHER OVERHEAD

9. PARTITION TYPES LISTED ARE BASED ON A CONCRETE FINISHED SHALL INCLUDE THE TYPE PROPERTIES OF ADJACENT PARTITIONS.

10. REFER TO STRUCTURAL FOR DEFLECTION CRITERIA WHEN DETERMINING GAUGE SIZES.

11. THE STC TEST RESULTS REFERENCED FOR INTERIOR PARTITIONS TYPICALLY REPRESENT THE ACOUSTIC PERFORMANCE OF THE PARTITION WITH THE METAL STUD SPACING TO BE 16" O.C. AT INTERIOR PARTITIONS FOR IMPROVED IMPACT RESISTANCE AND DURABILITY OF THE PARTITION. IT IS EXPECTED THAT THE ACOUSTIC PERFORMANCE OF THE PARTITION WILL BE MINUTELY REDUCED BY THIS CHANGE IN STUD SPACING, HOWEVER WE KNOW OF NO TEST RESULTS AVAILABLE TO SPECIFICALLY QUANTIFY THAT REDUCTION.

12. REFERENCE SPECIFICATIONS FOR TREATMENT OF WALL PENETRATIONS

13. COMPLY WITH THE SPECIFICATIONS: ASTM C 754-04 AND THE MANUFACTURER'S RECOMMENDATIONS FOR METAL STUD PARTITIONS AND WALL BRACING INSTALLATION REQUIREMENTS. REFER TO MANUFACTURER'S INSTALLATION TABLES FOR THE MINIMUM ALLOWABLE PARTITION HEIGHTS FOR NON-CARRYCOATED WALL ASSEMBLIES.

14. REFER TO STRUCTURAL FOR THE STRUCTURAL DESIGN FRAMETERS FOR MASONRY WALL ASSEMBLY INSTALLATION REQUIREMENTS AND LIMITS.

CENTRAL ARKANSAS WATER

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Date March 28, 2025

Title

PARTITION SCHEDULE

Sheet No.

A6.01

Project Name
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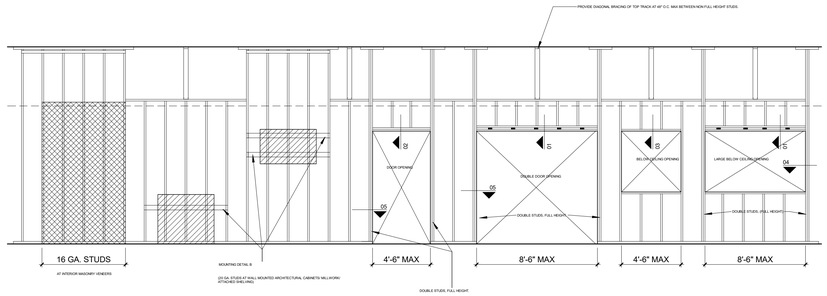
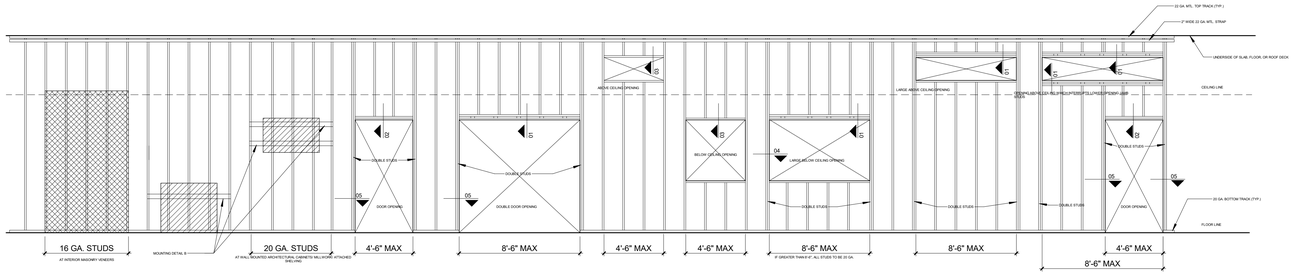
3/28/2025 12:59:20 AM

TYPICAL STUD FRAMING ELEVATIONS

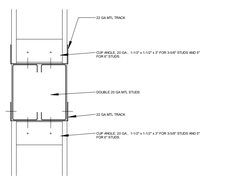
NOTES:

1. REFER TO PARTITION SCHEDULE FOR SPECIFIC STUD FRAMING DETAILS
2. ALL STUDS ARE SPACED 16" O.C. MAXIMUM.
3. ALL STUDS SHALL BE "C" STUDS WITH 1/4" MINIMUM FLANGE
4. DENOTES SHELVING OR CABINETRY.
5. DENOTES MASONRY VENEER.
6. REFER TO SPECIFICATIONS FOR STUD TYPE AND GAUGE
7. IN NO CASE SHALL DOUBLE STUDS AT SIDES OF OPENING BE CUT FOR DUCTWORK OR OTHER MECHANICAL SYSTEMS.
8. IN PROJECTS IN SEISMIC ZONES, MINIMUM STUD GAUGE IS 20 GA. - DETAILS TO BE MODIFIED ACCORDINGLY.

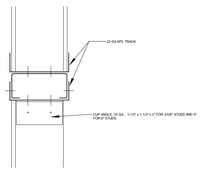




STUD OPENING DETAILS



01 DOUBLE DOOR/ LARGE OPENING HEADER
N.T.S.



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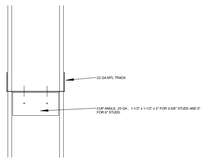

03 OPENING HEADER
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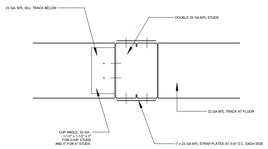

04 LARGE OPENING JAMB STUDS
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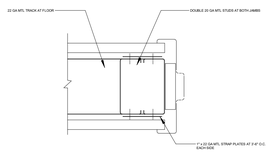
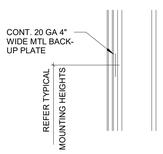


05 DOOR OPENING JAMB STUDS
N.T.S.

STUD MOUNTING DETAILS



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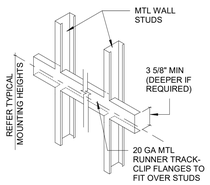

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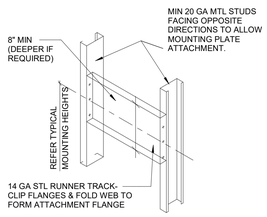

TYPE C

Project Name
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DESIGN DEVELOPMENT

No.	Issue	Date

Job No. CENTRA24.00

Date March 28, 2025

Title

PARTITION FRAMING DETAILS

Sheet No.

A6.02

Door Schedule

Door Number	DOOR Type	DOOR Material	DOOR Size Width	DOOR Size Height	DOOR Size Thickness	FRAME Frame Type	FRAME Details Head Detail	FRAME Details Jamb Detail	FRAME Details Sill Detail	U.L. Label	Hardware Set	Comments
100	DD	ALUM / GL	6'-0"	8'-0"		AFX-7					01	ACCESS CONTROL
101	DD	ALUM / GL	6'-0"	8'-0"		AL-1					08	
101C	D	ALUM / GL	3'-0"	7'-0"		HM-1					03	ACCESS CONTROL
101D	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					13	
101E	DD	ALUM / GL	6'-0"	7'-0"		AL-2					08	
101F	DD	ALUM / GL	6'-0"	6'-11 7/8"		AFX-4					02	ACCESS CONTROL
111A	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					10	
111B	OV		8'-0"	10'-0"	1 1/2"							ACCESS CONTROL
112A	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					10	
112B	AA	SCWD	6'-0"	7'-0"	1 3/4"	HM-1					05	
113	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					10	
114	A	HM	3'-0"	7'-0"	1 3/4"	HM-1					04	ACCESS CONTROL
115	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					10	
116	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					11	
117	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					11	
118	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					11	
119A	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					13	
119B	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					13	
120	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					14	
121	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					14	
122	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					14	
123	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					14	
124	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					14	
125	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					14	
126	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					14	
127A	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					14	
127B	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					14	
128	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					11	
129	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					11	
130A	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					10	
130B	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					10	
131	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					15	ACCESS CONTROL
132	AA	SCWD	6'-0"	7'-0"	1 3/4"	HM-1					05	ACCESS CONTROL

Door Schedule

Door Number	DOOR Type	DOOR Material	DOOR Size Width	DOOR Size Height	DOOR Size Thickness	FRAME Frame Type	FRAME Details Head Detail	FRAME Details Jamb Detail	FRAME Details Sill Detail	U.L. Label	Hardware Set	Comments
201B	DD	ALUM / GL	6'-0"	7'-10 1/4"		AL-4					12	
201C	DD	ALUM / GL	6'-0"	7'-10 1/4"		AL-3					12	
208A	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					12	
208B	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					12	
218	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					10	
225	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					11	
226	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					11	
227	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					10	
228	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					15	
229	AA	SCWD	6'-0"	7'-0"	1 3/4"	HM-1					09	
230	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					11	
231A	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					10	
231B	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					10	
231C	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					10	

Door Schedule

Door Number	DOOR Type	DOOR Material	DOOR Size Width	DOOR Size Height	DOOR Size Thickness	FRAME Frame Type	FRAME Details Head Detail	FRAME Details Jamb Detail	FRAME Details Sill Detail	U.L. Label	Hardware Set	Comments
302	D	ALUM / GL	3'-0"	7'-0"	1 3/4"	HM-1					03	
303	AA	SCWD	8'-0"	7'-0"	1 3/4"	HM-1					09	
304	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					10	
306	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					11	
307	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					15	ACCESS CONTROL
309	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					15	ACCESS CONTROL
313A	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					13	
313B	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					13	
314	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					10	
321	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					10	
322	AA	SCWD	6'-0"	7'-0"	1 3/4"	HM-1					09	
323	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					13	
324	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					13	

Door Schedule

Door Number	DOOR Type	DOOR Material	DOOR Size Width	DOOR Size Height	DOOR Size Thickness	FRAME Frame Type	FRAME Details Head Detail	FRAME Details Jamb Detail	FRAME Details Sill Detail	U.L. Label	Hardware Set	Comments
420	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					10	
423A	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					15	
423B	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					15	
430	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					15	
431A	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					15	
431B	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					13	
432	AA	SCWD	6'-0"	7'-0"	1 3/4"	HM-1					09	
433	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					10	
434	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					11	
435	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					11	
436	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					11	
437	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					15	
500	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					15	
501	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1					15	

Door Schedule

Door Number	DOOR Type	DOOR Material	DOOR Size Width	DOOR Size Height	DOOR Size Thickness	FRAME Frame Type	FRAME Details Head Detail	FRAME Details Jamb Detail	FRAME Details Sill Detail	U.L. Label	Hardware Set	Comments
S1-02	AA		8'-0"	8'-0"	1 3/4"	HM-1				1 HR		
S1-03	B	SCWD	3'-0"	7'-0"	1 3/4"	HM-1				1 HR	07	
S1-04	A	SCWD	3'-0"	7'-0"	1 3/4"	HM-1				1 HR	07	
S2-01	B	SCWD	3'-0"	7'-0"	1 3/4"	HM-1				1 HR	06	
S2-02	B	SCWD	3'-0"	7'-0"	1 3/4"	HM-1				1 HR	06	
S2-03	B	SCWD	3'-0"	7'-0"	1 3/4"	HM-1				1 HR	06	
S2-04	B	SCWD	3'-0"	7'-0"	1 3/4"	HM-1				1 HR	06	

HARDWARE SET KEY

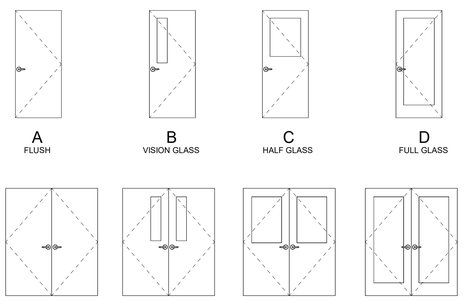
01 ENTRY SET - PUBLIC (E)	PAIR
02 ENTRY SET - PRIVATE (E)	PAIR
03 ENTRY SET - PRIVATE (E)	SINGLE
04 STOREROOM SET (E)	PAIR
05 STOREROOM SET (E)	SINGLE
06 EGRESS SET	PAIR
07 EGRESS SET	SINGLE
08 ENTRY SET	PAIR
09 STOREROOM SET	PAIR
10 STOREROOM SET	SINGLE
11 BATHROOM SET	SINGLE
12 PASSAGE SET	PAIR
13 PASSAGE SET	SINGLE
14 OFFICE SET	SINGLE
15 SECURE DOOR SET	SINGLE

DOOR TYPES

1/4" = 1'-0"

SEE SCHEDULE FOR OVERALL DIMENSIONS & DOOR MATERIAL

SCWD - SOLID CORE WOOD
HM - HOLLOW METAL
ALUM - ALUMINUM

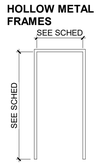


FRAME TYPES

1/4" = 1'-0"

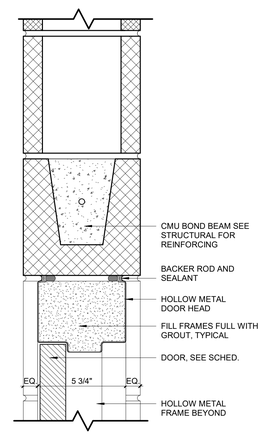
HM - HOLLOW METAL

HOLLOW METAL FRAMES

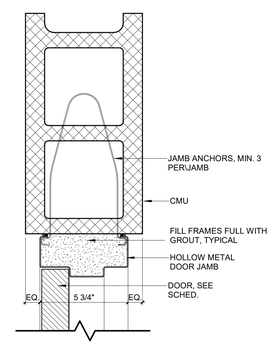


HM-1

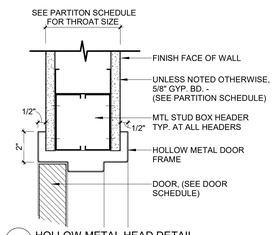
NOTE: AT MASONRY OPENINGS PROVIDE 4" HEAD



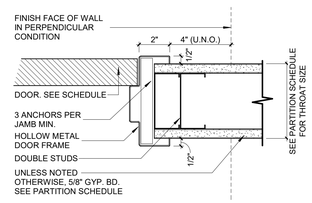
A12 HOLLOW METAL HEAD @ CMU
3" = 1'-0"



B12 HOLLOW METAL JAMB @ CMU
3" = 1'-0"



A14 HOLLOW METAL HEAD DETAIL
3" = 1'-0"



B14 HOLLOW METAL JAMB DETAIL
3" = 1'-0"

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Job No.

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Title March 28, 2025

DOOR SCHEDULE

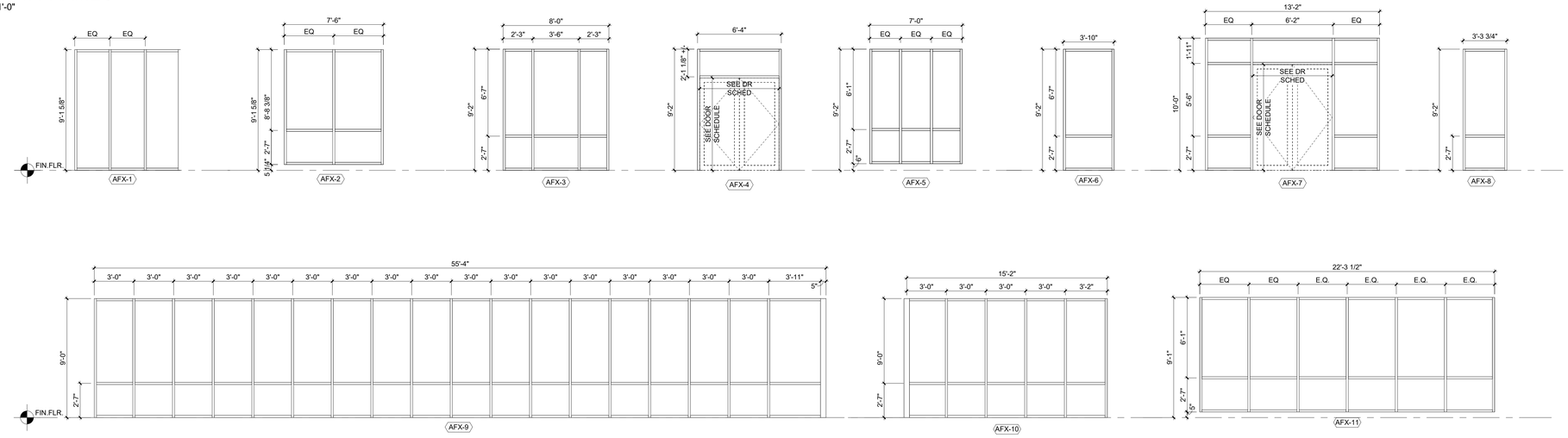
Sheet No.

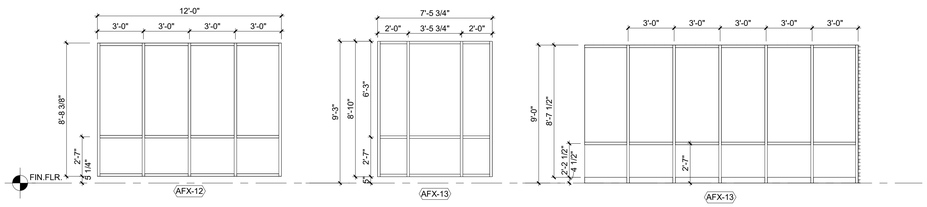
A6.03

Project Name
Autodesk Docs://Central Arkansas Water JTH Building Renovations/CENTRA24.00-CAW JTH_v24.rvt
3/29/2025 12:59:21 AM

ALUMINUM FRAMES

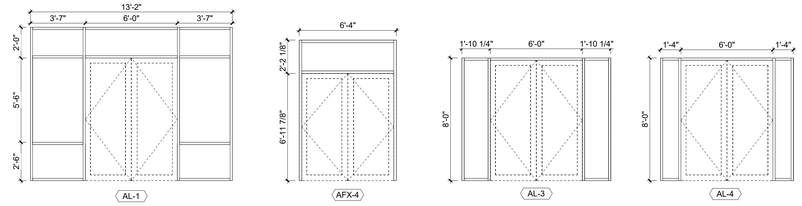
SCALE: 1/4" = 1'-0"





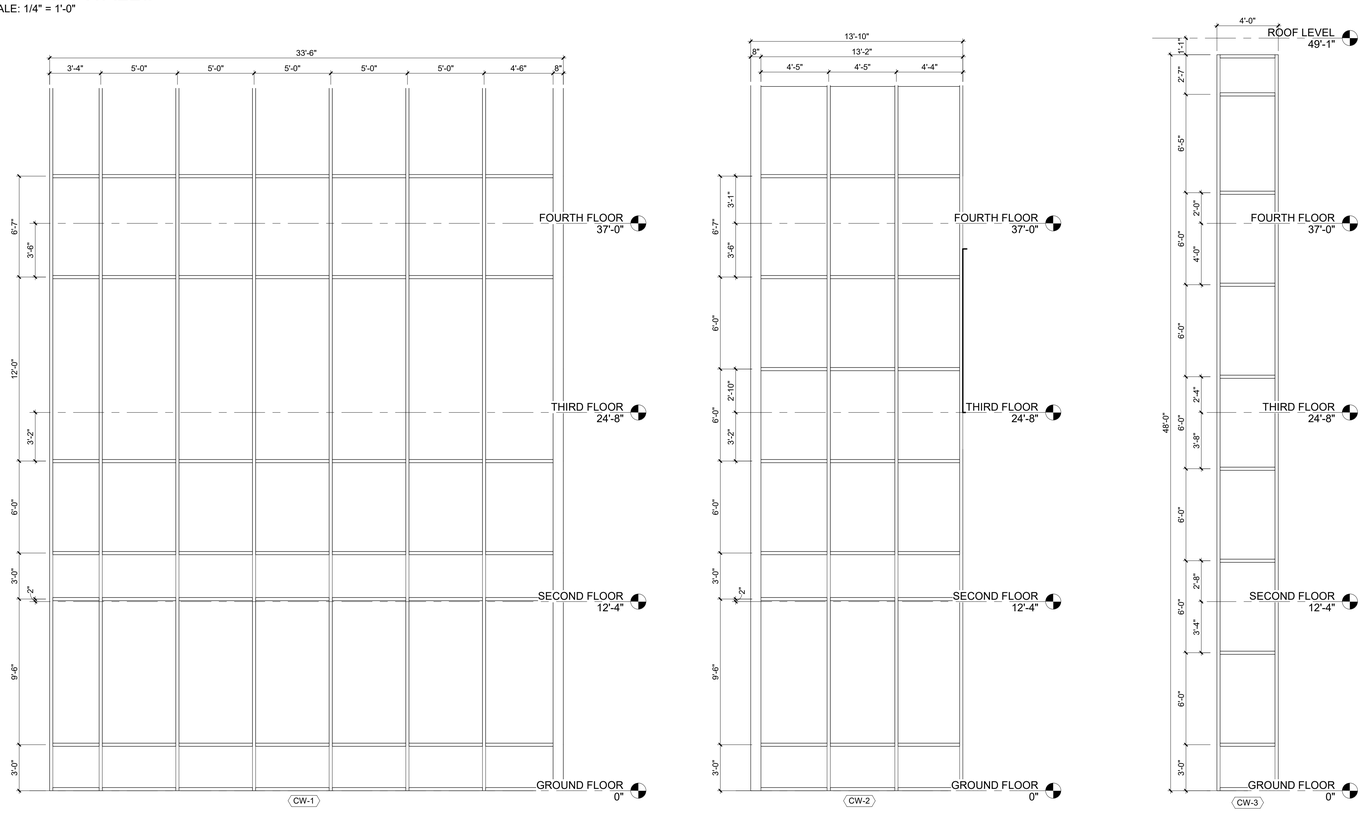
ALUMINUM FRAMES INTERIOR

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



CURTAIN WALLS

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



SAFETY GLASS LOCATIONS

NOT ALL CONDITIONS SHOWN BELOW ARE APPLICABLE TO THE SCOPE OF WORK.

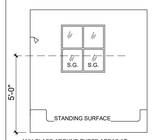
GLASS SCHEDULE FOR WALLS AND DOORS

W - NOT PERMITTED
A - ALLOWED
NR - NOT RECOMMENDED

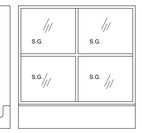
		WALLS	DOORS	SIDELIGHTS	LOUVRES	ALL OTHERS
FIRE-RATED	SAFETY NOT REQUIRED	NP	A	NP	NP	A
	SAFETY REQUIRED	NP	NP	NP	NP	A
NON-FIRE-RATED	SAFETY NOT REQUIRED	A	A	A	A	NR
	SAFETY REQUIRED	NP	NP	A	A	NR

SAFETY GLAZING IS REQUIRED FOR:

WET AREAS

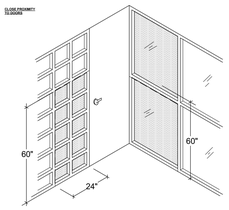


ANY GLASS AROUND THESE AREAS AT 60" OR LESS ABOVE THE STANDING SURFACE IS TO BE SAFETY GLASS.



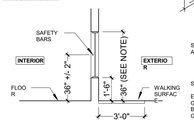
SAFETY GLASS IS TO BE USED FOR ALL DOORS AT HOT TUBS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATH TUBS OR SHOWERS.

CLOSE PROXIMITY TO DOORS



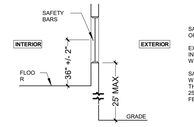
GLAZED OPENINGS IN DOORS

GLAZED OPENINGS IN PARTITIONS



SAFETY GLASS IS REQUIRED WHEN THE FOLLOWING CONDITIONS ARE PRESENT:
- TOP OF GLAZING IS GREATER THAN OR EQUAL TO 36" AFF
- AREA OF SINGLE PANE IS GREATER THAN 9 SF.
- BOTTOM OF GLAZING IS LESS THAN OR EQUAL TO 18" AFF
- WALKING SURFACE IS LOCATED WITHIN 36" OF ONE OR BOTH SIDES

EXCEPTION:
GLASS DOES NOT NEED TO BE SAFETY GLASS WHEN 1 1/2" SAFETY BAR IS INSTALLED WHERE WALKING SURFACE IS WITHIN 36" OF GLASS.



SAFETY GLASS IS REQUIRED AT INTERIOR LITE WHEN BOTTOM OF GLAZING IS LESS THAN OR EQUAL TO 18" AFF.

EXCEPTION:
INTERIOR LITE DOES NOT NEED TO BE SAFETY GLASS WHEN 1 1/2" SAFETY BAR IS INSTALLED

SAFETY GLASS IS REQUIRED FOR EXTERIOR LITES EXCEPT WHEN
THE BOTTOM OF THE GLAZING IS GREATER THAN OR EQUAL TO 25
FEET ABOVE GRADE.

CENTRAL ARKANSAS WATER

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DESIGN DEVELOPMENT

No.	Issue	Date

Job No. CENTRA24.00

Date March 28, 2025

Title

WINDOW SCHEDULE

Sheet No.

A6.04

Project Name
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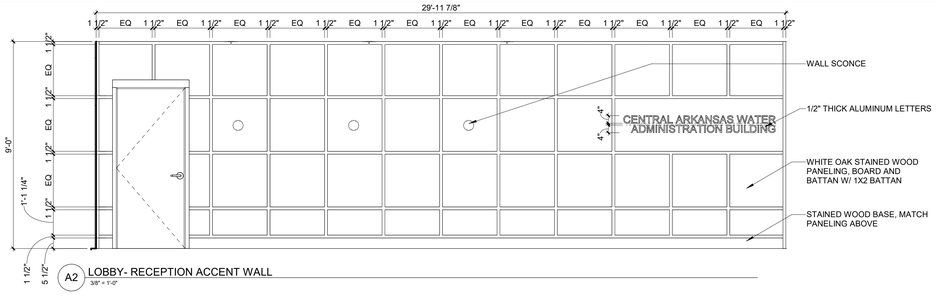
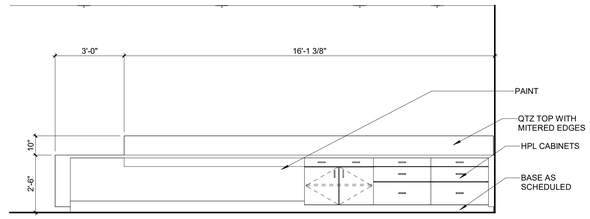
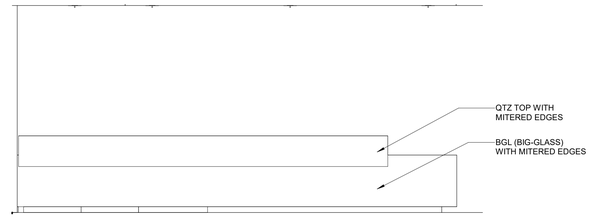
3/29/2025 12:59:24 AM



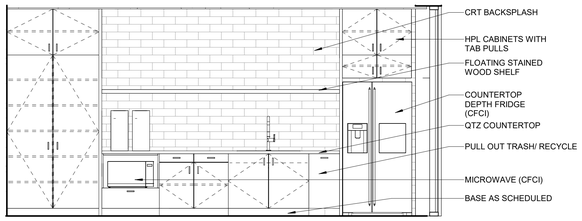
A2 LOBBY- RECEPTION ACCENT WALL
3/8" = 1'-0"



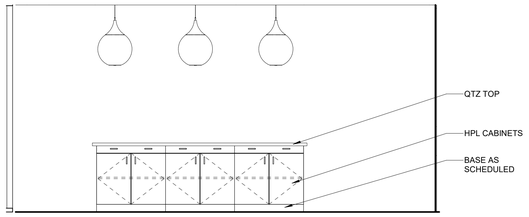
H2 LOBBY-RECEPTION DESK
3/8" = 1'-0"



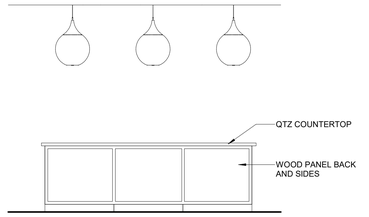
N2 IE - RECEPTION DESK FRONT
3/8" = 1'-0"



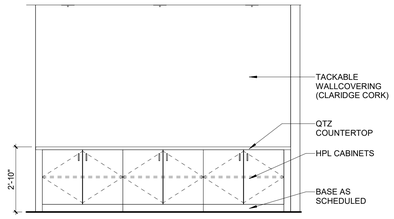
A5 CUSTOMER SERVICE - BREAKROOM WET WALL
3/8" = 1'-0"



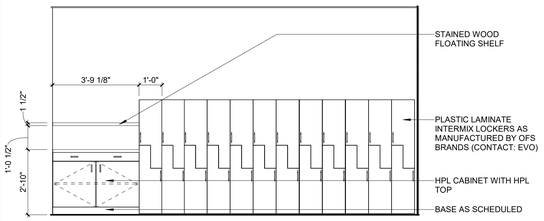
F5 CUSTOMER SERVICE -BREAKROOM ISLAND
3/8" = 1'-0"



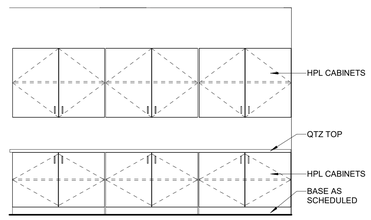
L5 CUSTOMER SERVICE - BREAKROOM ISLAND
3/8" = 1'-0"



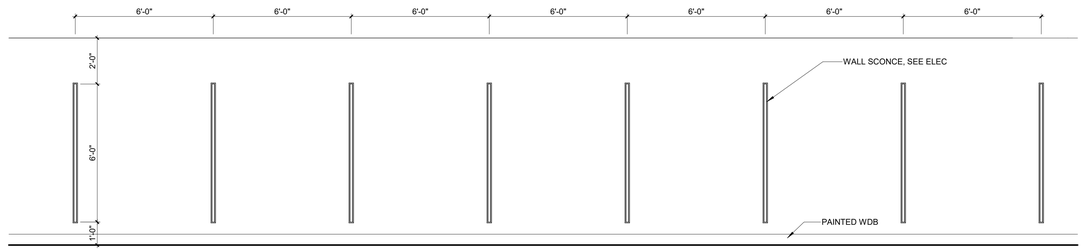
Q5 ANNOUNCEMENT ACCENT WALL
3/8" = 1'-0"



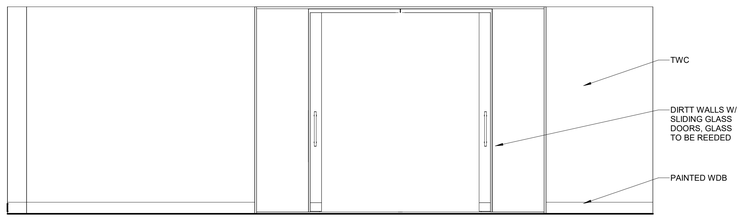
A8 FIELD - LOCKERS
3/8" = 1'-0"



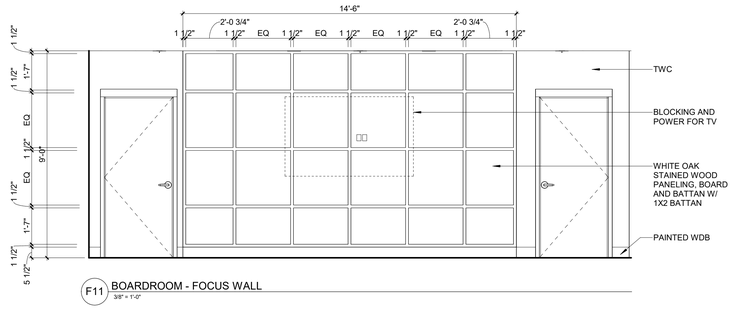
D8 HR-STORAGE WALL
3/8" = 1'-0"



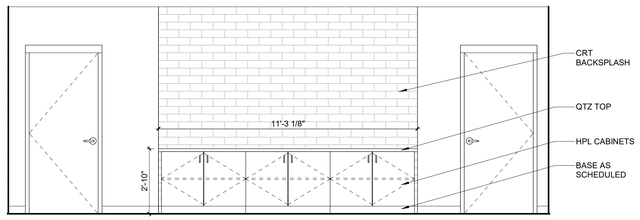
H8 GROUND FLOOR - CORRIDOR 101A WEST WALL
3/8" = 1'-0"



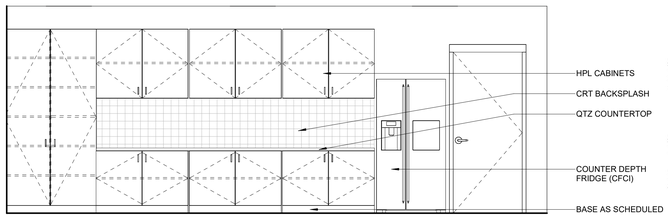
A11 BOARD ROOM - ENTRANCE
3/8" = 1'-0"



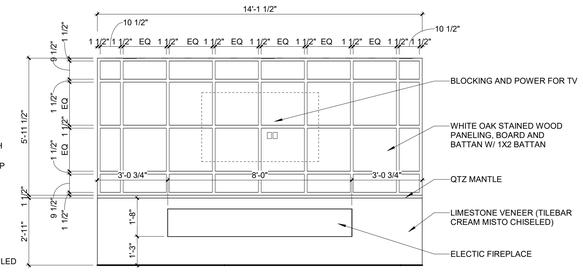
F11 BOARDROOM - FOCUS WALL
3/8" = 1'-0"



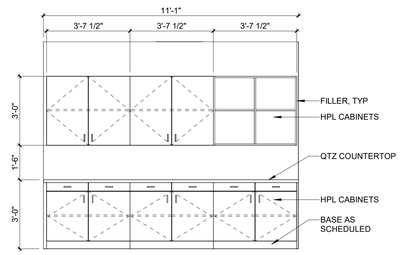
N11 BOARDROOM- CATERING WALL
3/8" = 1'-0"



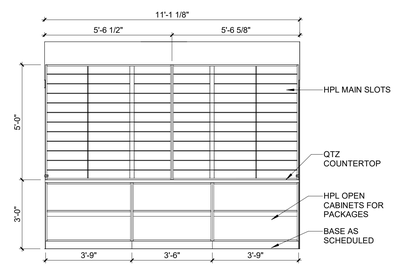
A14 BOARDROOM - CATERING KITCHEN WALL
3/8" = 1'-0"



G14 C-SUITE - WAITING
3/8" = 1'-0"



L14 IE - RECEPTION WORKROOM - EAST
3/8" = 1'-0"



Q14 IE - RECEPTION WORKROOM - WEST
3/8" = 1'-0"

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DESIGN DEVELOPMENT

No	Issue	Date
-		

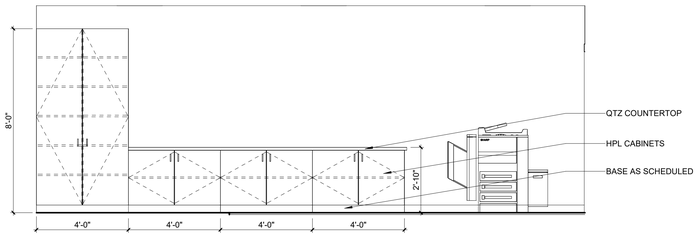
Job No. CENTRA24.00
Date March 28, 2025
Title

INTERIOR ELEVATIONS

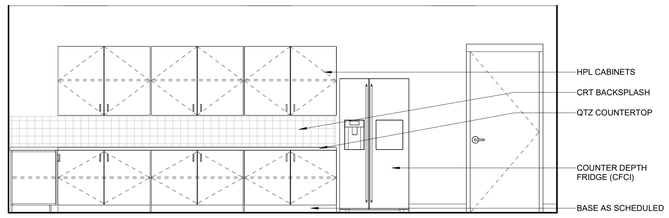
Sheet No.

A7.01

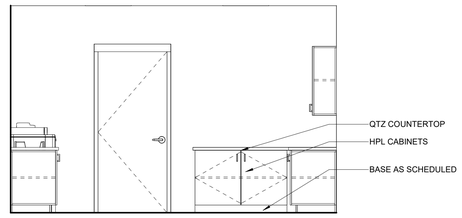
Project Name
Autodesk Docs://Central Arkansas Water -JTH Building Renovations/CENTRA24.00-CAW -JTH _v24.rvt
3/29/2025 12:59:26 AM



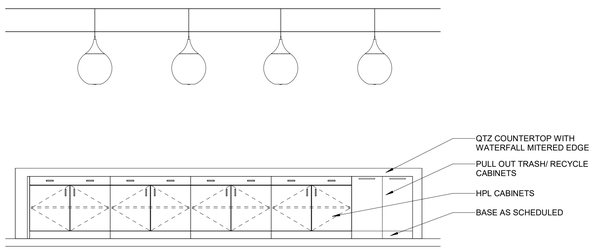
A2 C-SUITE - WORKROOM SOUTH WALL
3/8" = 1'-0"



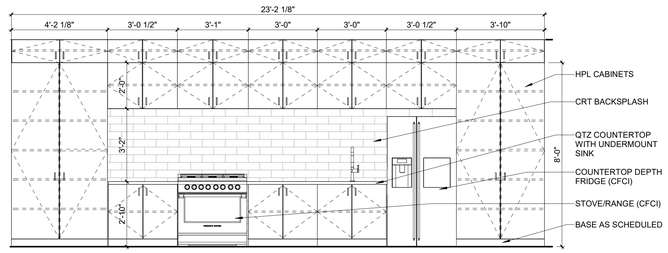
G2 C-SUITE - WORKROOM NORTH WALL
3/8" = 1'-0"



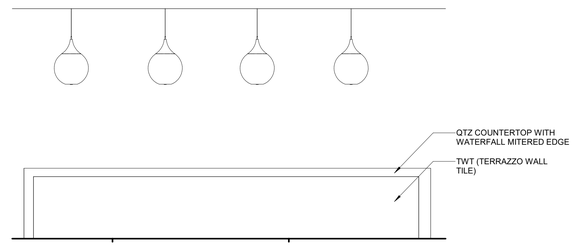
P2 C-SUITE - WORKROOM WEST WALL
3/8" = 1'-0"



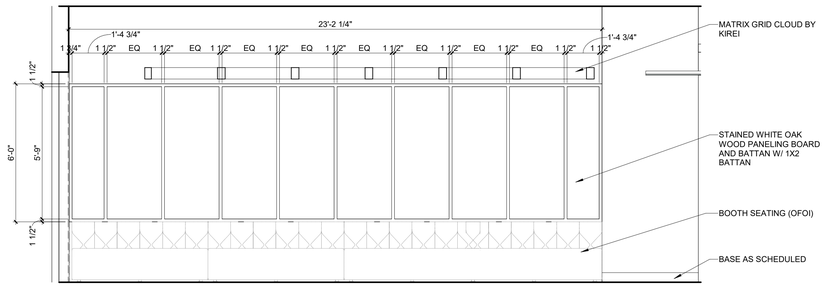
A6 IE - BREAKROOM ISLAND FRONT
3/8" = 1'-0"



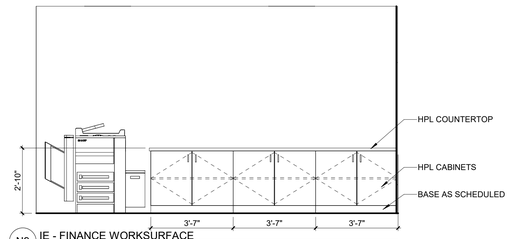
G6 IE - BREAKROOM ISLAND CABINETS
3/8" = 1'-0"



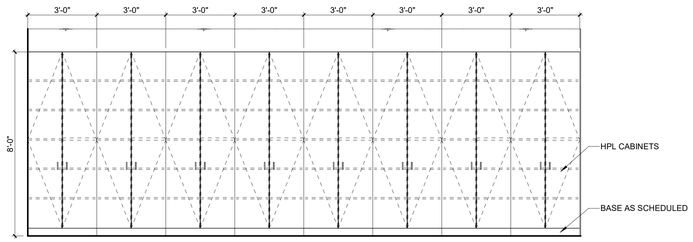
P6 IE - BREAKROOM ISLAND BACK
3/8" = 1'-0"



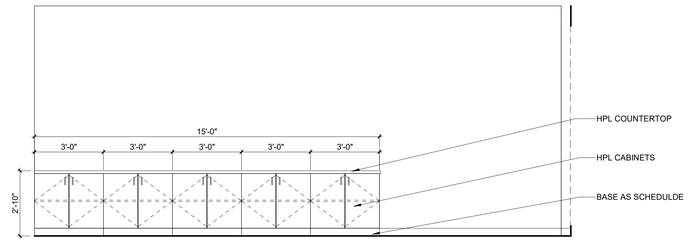
F9 IE - THIRD FLOOR LOBBY BOOTH WALL
3/8" = 1'-0"



N9 IE - FINANCE WORKSURFACE
3/8" = 1'-0"



F12 IE - ENGINEERING STORAGE
3/8" = 1'-0"



N12 IE - PLOTTER STORAGE
3/8" = 1'-0"

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No	Issue	Date
-		

Job No. CENTRA24.00

Date March 28, 2025

Title

INTERIOR ELEVATIONS

Sheet No.

A7.02

Project Name
Autodesk Docs://Central Arkansas Water -JTH Building Renovations/CENTRA24.00-CAW_JTH_v24.rvt
3/29/2025 12:59:27 AM

Finish Schedule

Room Number	Room Name	Floor Finish	Base Finish	Wall Finish	Comments
100	ENTRY	WKC ZONE 3	RBB	TWC	
101	LOBBY	PCT	WDB	WD PANELING	
101A	CORRIDOR	PCT	WDB	VWC	
101B	CORRIDOR	PCT	WDB	VWC	
101C	CORRIDOR	CPT-1	RBB	IPT (PAINT)	
101D	CORRIDOR	PCT	WDB	VWC	
101E	ELEV LOBBY	WKC ZONE 3	WDB	VWC	
101F	ENTRY	WKC ZONE 2	WDB	VWC	
102	CUSTOMER SERVICE	CPT-1	RBB	IPT (PAINT)	
103	CUSTOMER MEETING RM	CPT-2	RBB	VWC	
104	OFFICE	CPT-2	RBB	IPT (PAINT)	
105	OFFICE	CPT-2	RBB	IPT (PAINT)	
106	DIRECTOR	CPT-2	RBB	IPT (PAINT)	
107	FIELD	CPT-1	RBB	IPT (PAINT)	
108	OFFICE	CPT-2	RBB	IPT (PAINT)	
109	OFFICE	CPT-2	RBB	IPT (PAINT)	
110	OFFICE	CPT-2	RBB	IPT (PAINT)	
111	WORK SHOP	SLC	RBB	IPT (PAINT)	
112	ELEC	SDC	RBB	IPT (PAINT)	
113	MECH	SDC	RBB	IPT (PAINT)	
114	RISER	SDC	RBB	IPT (PAINT)	
115	JAN	BPF	RBB	IPT (PAINT)	BPF: SEE SECTION 06 6700
116	SHOWER	PCT	N/A	PCT	
117	TLT	PCT	N/A	PCT	
118	TLT	PCT	N/A	PCT	
119	HR	CPT-1	RBB	IPT (PAINT)	
120	OFFICE	CPT-2	RBB	IPT (PAINT)	
121	DIRECTOR	CPT-2	RBB	IPT (PAINT)	
122	OFFICE	CPT-2	RBB	IPT (PAINT)	
123	OFFICE	CPT-2	RBB	IPT (PAINT)	
124	OFFICE	CPT-2	RBB	IPT (PAINT)	
125	OFFICE	CPT-2	RBB	IPT (PAINT)	
126	OFFICE	CPT-2	RBB	IPT (PAINT)	
127	CONF	CPT-2	RBB	VWC	
128	TLT	PCT	N/A	PCT	
129	TLT	PCT	RBB	PCT	
130	WORK ROOM	CPT-1	RBB	IPT (PAINT)	
131	IT	SDT	RBB	IPT (PAINT)	
132	MECH	SDC	RBB	IPT (PAINT)	

Finish Schedule

Room Number	Room Name	Floor Finish	Base Finish	Wall Finish	Comments
200	LOBBY	WDF	WDB	TWC	
201	ADMINISTRATION	CPT-1	WDB	TWC	
201A	CORRIDOR	WDF	WDB	TWC	
201B	CORRIDOR	CPT-1	RBB	IPT (PAINT)	
201C	ELEV LOBBY	PCT	WDB	VWC	
201D	CORRIDOR	CPT-1	RBB	IPT (PAINT)	
202	OFFICE	CPT-2	WDB	IPT (PAINT)	
203	JO'S OFFICE	CPT-2	WDB	IPT (PAINT)	
204	TAD'S OFFICE	CPT-2	WDB	IPT (PAINT)	
205	BLAKE'S OFFICE	CPT-2	WDB	IPT (PAINT)	
206	GENERAL COUNSEL	CPT-2	WDB	IPT (PAINT)	
207	CONF	CPT-2	WDB	WHITE OAK WOOD PANELING	
208	WORKROOM	CPT-1	RBB	IPT (PAINT)	
209	FINANCE	CPT-1	RBB	IPT (PAINT)	
210	OFFICE	CPT-2	RBB	IPT (PAINT)	
211	OFFICE	CPT-2	RBB	IPT (PAINT)	
212	OFFICE	CPT-2	RBB	IPT (PAINT)	
213	OFFICE	CPT-2	RBB	IPT (PAINT)	
214	OFFICE	CPT-2	RBB	IPT (PAINT)	
215	OFFICE	CPT-2	RBB	IPT (PAINT)	
216	OFFICE	CPT-2	RBB	IPT (PAINT)	
217	ADMIN ASSISTANT	CPT-2	RBB	IPT (PAINT)	
218	SUPPLY ROOM	RBT	RBB	IPT (PAINT)	
219	OFFICE	CPT-2	RBB	IPT (PAINT)	
220	OFFICE	CPT-2	RBB	IPT (PAINT)	
221	DIRECTOR	CPT-2	RBB	IPT (PAINT)	
222	OFFICE	CPT-2	RBB	IPT (PAINT)	
223	OFFICE	CPT-2	RBB	IPT (PAINT)	
224	CONF	CPT-2	RBB	WHITE OAK WOOD PANELING/ SWC	SWC ON NORTH WALL
225	TLT	PCT	N/A	PCT	
226	TLT	PCT	N/A	PCT	
227	JAN	BPF	RBB	IPT (PAINT)	BPF: SEE SECTION 06 6700
228	IT	SDT	RBB	IPT (PAINT)	
229	VEST	WDF	WDB	TWC	
229A	MECH	SDT	RBB	IPT (PAINT)	
230	TLT	PCT	N/A	PCT	
231	CATERING	PCT	WDB	IPT (PAINT)	
232	BOARD ROOM	WDF , CPT-2	WDB	VWC	

Finish Schedule

Room Number	Room Name	Floor Finish	Base Finish	Wall Finish	Comments
300	LOBBY	RBT	RBB	TWC	
301A	ELEV LOBBY	RBT	RBB	TWC	
301B	BREAK ROOM	RBT	RBB	TWC	
301C	CORRIDOR	RBT	RBB	TWC	
301D	ELEV. LOBBY	PCT	WDB	VWC	
302	TRAINING ROOM	CPT-1	RBB	VWC	
303	TABLE & CHAIR	CPT-1	RBB	IPT (PAINT)	
304	JANITOR	BPF	RBB	IPT (PAINT)	BPF: SEE SECTION 06 6700
305	HUDDLE	CPT-2	RBB	VWC/ SWC	SWV ON NORTH WALL
306	MOTHERS RM	RBT	RBB	VWC	
307	IT	SDT	RBB	IPT (PAINT)	
308	SPECIAL PROJECTS	CPT-1	RBB	IPT (PAINT)	
309	SERVER	SDT ON ACCESS FLOORING	RBB	IPT (PAINT)	
310	OFFICE	CPT-2	RBB	IPT (PAINT)	
311	OFFICE	CPT-2	RBB	IPT (PAINT)	
312	DIRECTOR EHS	CPT-2	RBB	IPT (PAINT)	
313	COMMUNICATIONS	CPT-1	RBB	IPT (PAINT)	
314	MERCH	RBT	RBB	IPT (PAINT)	
315	OFFICE	CPT-2	RBB	IPT (PAINT)	
316	OFFICE	CPT-2	RBB	IPT (PAINT)	
317	OFFICE	CPT-2	RBB	IPT (PAINT)	
318	OFFICE	CPT-2	RBB	IPT (PAINT)	
319	OFFICE	CPT-2	RBB	IPT (PAINT)	
320	VENDING	RBT	RBB	IPT (PAINT)	
321	SUPPLY ROOM	RBT	RBB	IPT (PAINT)	
322	MECH	SDT	RBB	IPT (PAINT)	
323	WOMENS	PCT	N/A	PCT	
324	MENS	PCT	N/A	PCT	

FINISH SCHEDULE LEGEND

ACF	ACOUSTICAL FABRIC
ACT	ACOUSTIC CEILING TILE
BAF	BAFFLES
BGL	BIOGLASS COUNTER (SECTION 06 4000)
BPF	BIOPOLYMER FLOORING (SECTION 09 6700)
BRD	MARKER BOARD/ CHALKBOARD
CGD	CORNER GUARD
CPT	CARPET
CRT	CERAMIC TILE
CTB	CERAMIC TILE BASE
EPC	EPOXY RESIN COUNTER SURFACE
EPX	EPOXY RESINOUS FLOORING
EXS	EXISTING FINISH
FMH	FUME HOODS
FXS	FIXED SEATING
GDC	GROUND CONCRETE
GRT	GROUT
HPL	PLASTIC LAMINATE
IPT	INTERIOR PAINT
IPX	INTERIOR EPOXY PAINT
LVT	LUXURY VINYL TILE
MBL	MARBLE
PCT	PORCELAIN TILE
PRP	PLASTIC RESIN PANEL
PTB	PORCELAIN TILE BASE
RBB	RUBBER BASE
RBT	RUBBER TILE
RST	RUBBER STAIR TREAD/RISER
SDC	STATIC DISSIPATIVE CONCRETE
SDT	STATIC DISSIPATIVE TILE
SLC	SEALED CONCRETE
SPF	SPORTS FLOOR
SSC	SOLID SURFACE
SWC	SPECIALTY WALL COVERING
TLP	TOILET PARTITION
TWC	TEXTILE WALL COVERING
VCT	VINYL COMPOSITION TILE
VWC	VINYL WALL COVERING
WDB	WOOD BASE (PAINTED)
WDF	WOOD FLOORING
WDM	WOOD MILLWORK
WKM	WALK-OFF MAT
WNS	WINDOW SHADES

Finish Schedule

Room Number	Room Name	Floor Finish	Base Finish	Wall Finish	Comments
400	LOBBY	CPT-1	RBB	IPT (PAINT)	
401A	CORRIDOR	CPT-1	RBB	IPT (PAINT)	
401B	CORRIDOR	CPT-1	RBB	IPT (PAINT)	
401C	ELEV LOBBY	PCT	WDB	VWC	
402	BREAK	RBT	RBB	IPT (PAINT)	
403	ENGINEERING	CPT-1	RBB	IPT (PAINT)	
404	OFFICE	CPT-2	RBB	IPT (PAINT)	
405	OFFICE	CPT-2	RBB	IPT (PAINT)	
406	OFFICE	CPT-2	RBB	IPT (PAINT)	
407	OFFICE	CPT-2	RBB	IPT (PAINT)	
408	OFFICE	CPT-2	RBB	IPT (PAINT)	
409	DIRECTOR	CPT-2	RBB	IPT (PAINT)	
410	OFFICE	CPT-2	RBB	IPT (PAINT)	
411	OFFICE	CPT-2	RBB	IPT (PAINT)	
412	OFFICE	CPT-2	RBB	IPT (PAINT)	
413	OFFICE	CPT-2	RBB	IPT (PAINT)	
414	OFFICE	CPT-2	RBB	IPT (PAINT)	
415	OFFICE	CPT-2	RBB	IPT (PAINT)	
416	GIS	CPT-1	RBB	IPT (PAINT)	
417	MANAGER	CPT-2	RBB	IPT (PAINT)	
418	CONF	CPT-2	RBB	VWC	
419	INFORMATION SERVICES	CPT-1	RBB	IPT (PAINT)	
420	ELEC	SDT	RBB	IPT (PAINT)	
421	INFORMATION SERVICES	CPT-1	RBB	IPT (PAINT)	
422	OFFICE	CPT-2	RBB	IPT (PAINT)	
423	WORK ROOM	CPT-2	RBB	IPT (PAINT)	
424	OFFICE	CPT-2	RBB	IPT (PAINT)	
425	DIRECTOR	CPT-2	RBB	IPT (PAINT)	
426	OFFICE	CPT-2	RBB	IPT (PAINT)	
427	OFFICE	CPT-2	RBB	IPT (PAINT)	
428	OFFICE	CPT-2	RBB	IPT (PAINT)	
429	OFFICE	CPT-2	RBB	IPT (PAINT)	
430	BILLING	CPT-2	RBB	IPT (PAINT)	
431	PRINTING	CPT-2	RBB	IPT (PAINT)	
432	MECH	SDT	RBB	IPT (PAINT)	
433	JAN	BPF	RBB	IPT (PAINT)	BPF: SEE SECTION 06 6700
434	TLT	PCT	N/A	PCT	
435	TLT	PCT	N/A	PCT	
436	TLT	PCT	N/A	PCT	
437	IT	SDT	RBB	IPT (PAINT)	
438	PLOTTING	CPT-1	RBB	IPT (PAINT)	
439	ENGINEERING	CPT-1	RBB	IPT (PAINT)	

Finish Schedule

Room Number	Room Name	Floor Finish	Base Finish	Wall Finish	Comments
S1-01	STAIR	WDF	WDB	IPT (PAINT), MODULAR ARTS BURLE	MODULAR ARTS BURLE TO INSTALL ON WEST WALL
S1-02	STAIR	WDF	WDB	IPT (PAINT), MODULAR ARTS BURLE	MODULAR ARTS BURLE TO INSTALL ON WEST WALL
S1-03	STAIR	WDF	WDB	IPT (PAINT), MODULAR ARTS BURLE	MODULAR ARTS BURLE TO INSTALL ON WEST WALL
S1-04	STAIR	WDF	WDB	IPT (PAINT), MODULAR ARTS BURLE	MODULAR ARTS BURLE TO INSTALL ON WEST WALL
S2-01	STAIR	RST	RBB	VWC	
S2-02	STAIR	RST	RBB	VWC	
S2-03	STAIR	RST	RBB	VWC	
S2-04	STAIR	RST	RBB	VWC	
Grand total: 155					

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JAMES T. HARVEY

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Date March 28, 2025

Title

FINISH SCHEDULE

Sheet No.

A7.11

Project Name
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3/29/2025 12:59:28 AM

D14 GROUND FLOOR_FINISH PLAN
3/16" = 1'-0"

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Job No. CENTRA24.00

Date March 28, 2025

Title

FINISH FLOOR PLAN 1ST FLOOR

Sheet No.

A7.31

Project Name:
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E14 SECOND FLOOR_FINISH PLAN
3/16" = 1'-0"

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CENTRA24.00
Date
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Title

FINISH FLOOR PLAN 2ND FLOOR

Sheet No.

A7.32

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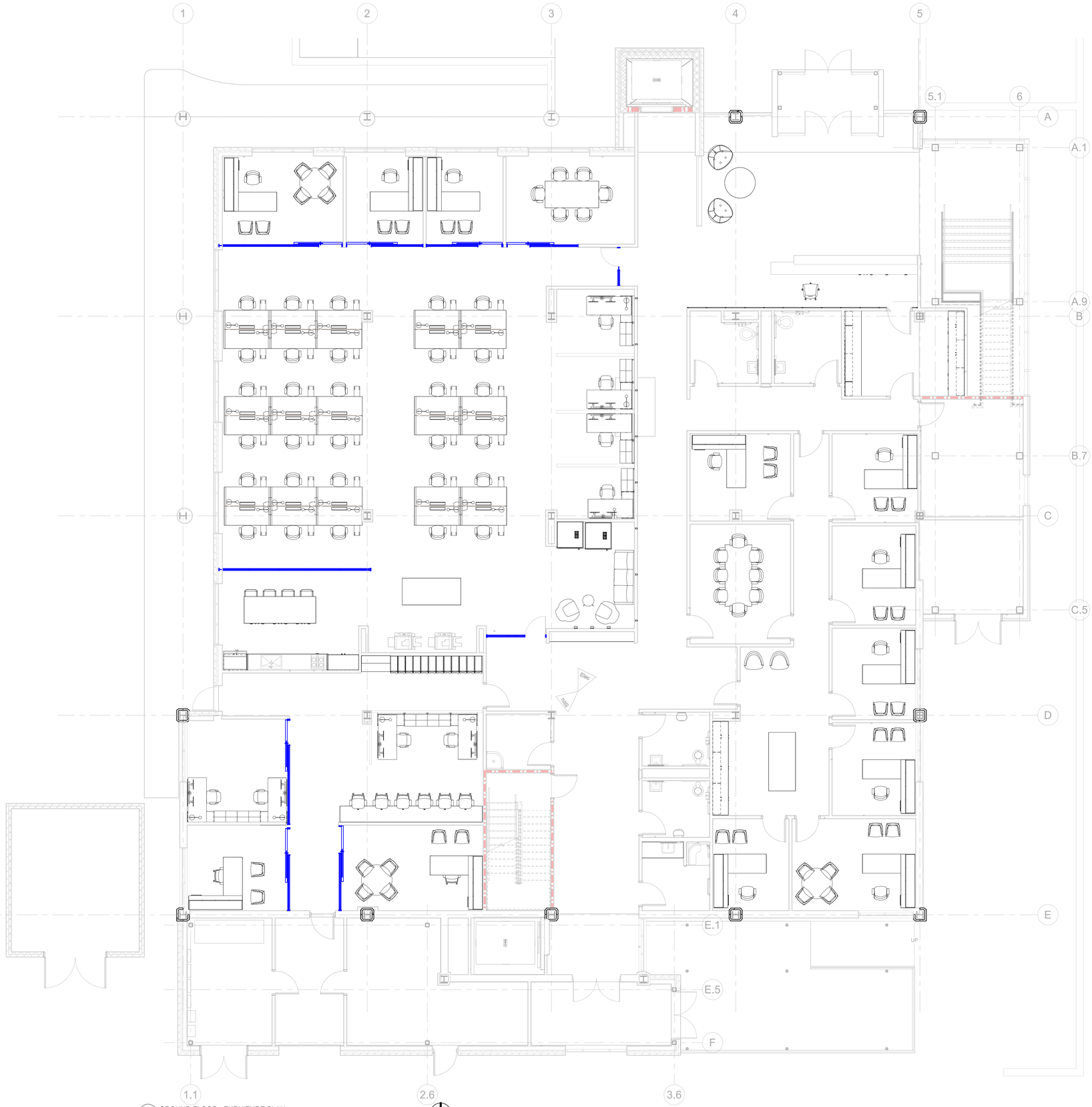

C14 GROUND FLOOR - FURNITURE PLAN
3/16" = 1'-0"

0 4 8 16

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GROUND FLOOR FURNITURE PLAN

Sheet No.

A7.41

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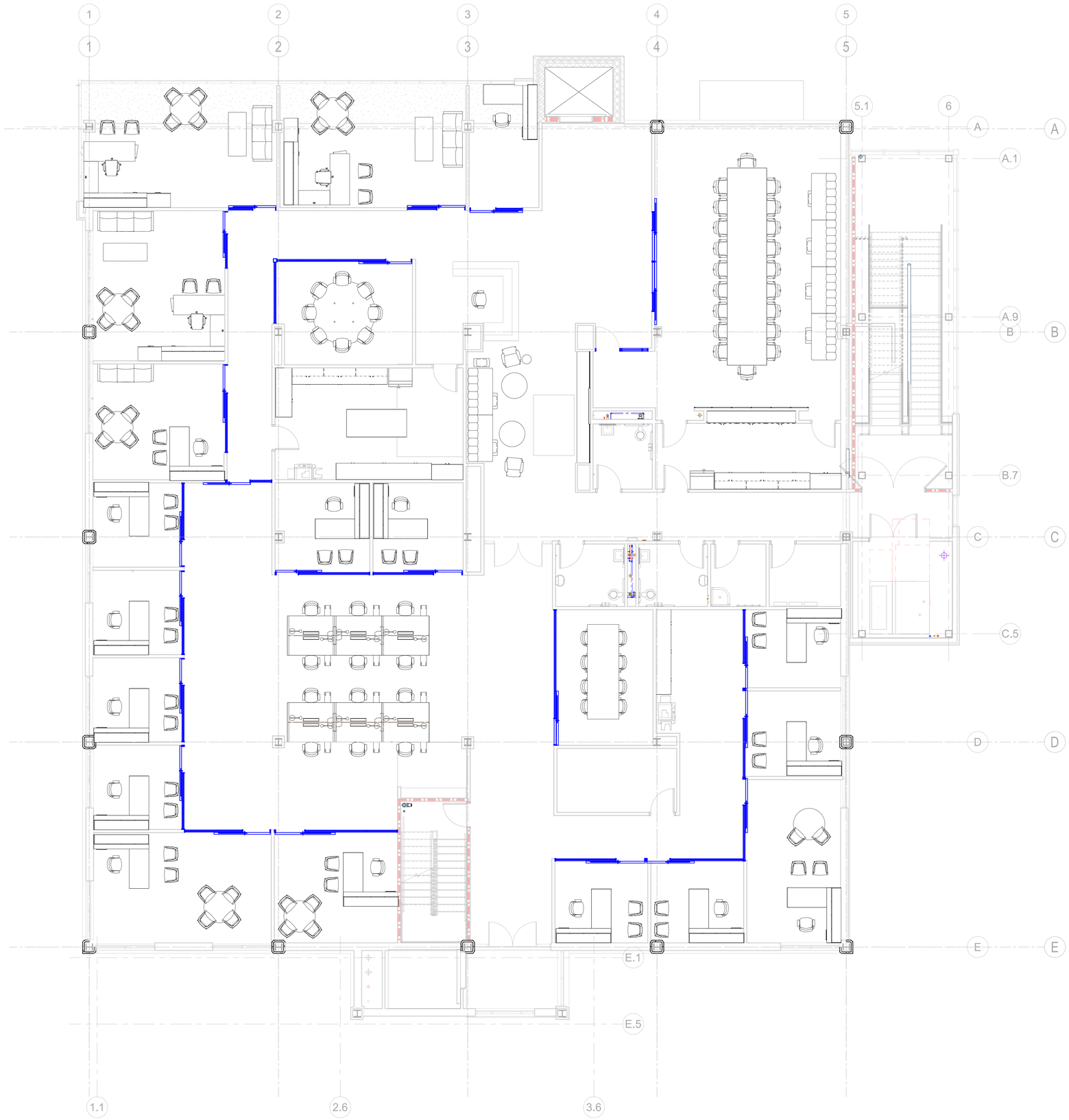

C14 SECOND FLOOR - FURNITURE PLAN
3/16" = 1'-0"

0 4 8 16

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SECOND FLOOR FURNITURE PLAN

Sheet No.

A7.42

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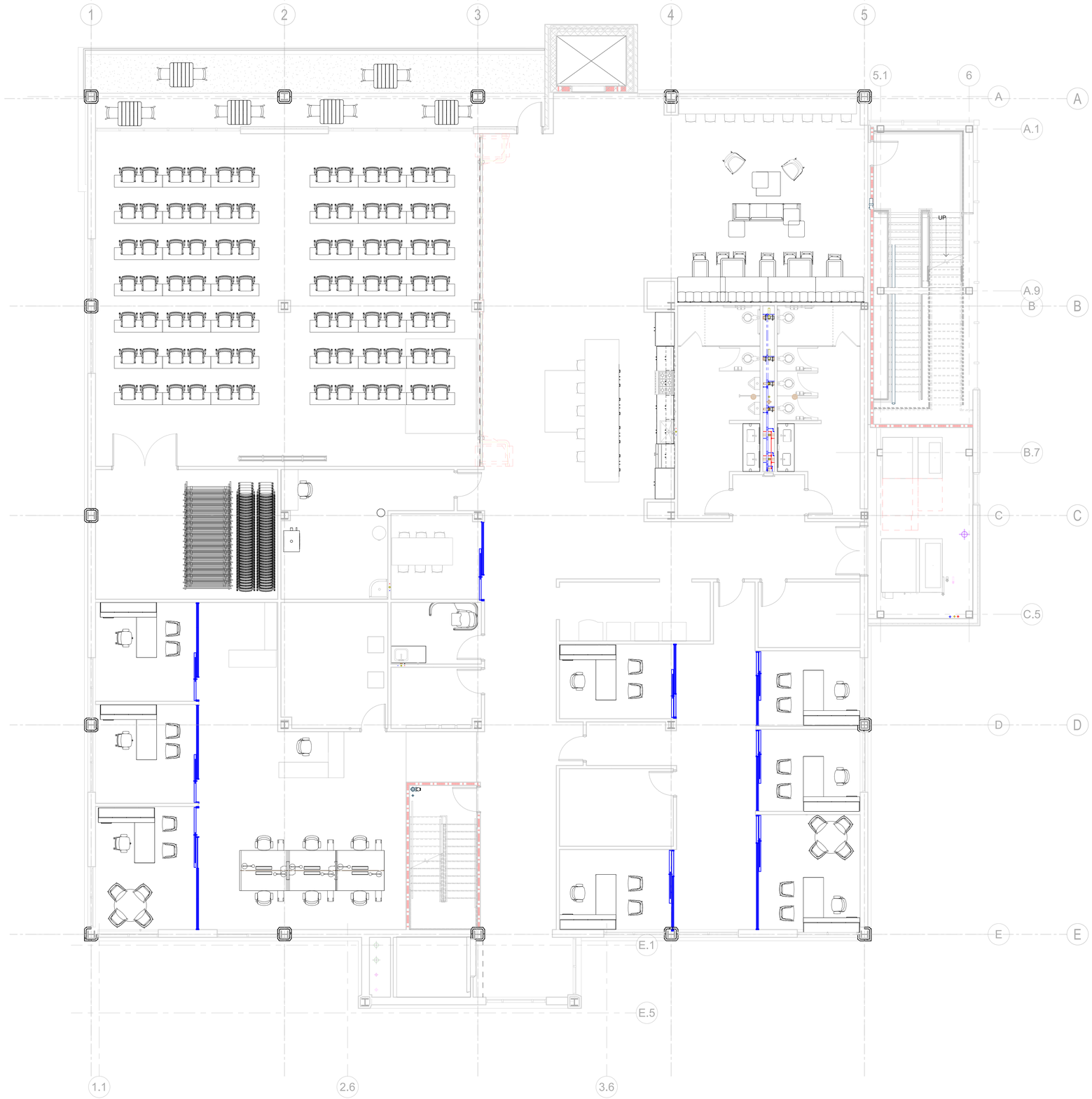

C14 THIRD FLOOR - FURNITURE PLAN
3/16" = 1'-0"

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THIRD FLOOR FURNITURE PLAN

Sheet No.

A7.43

Project Name
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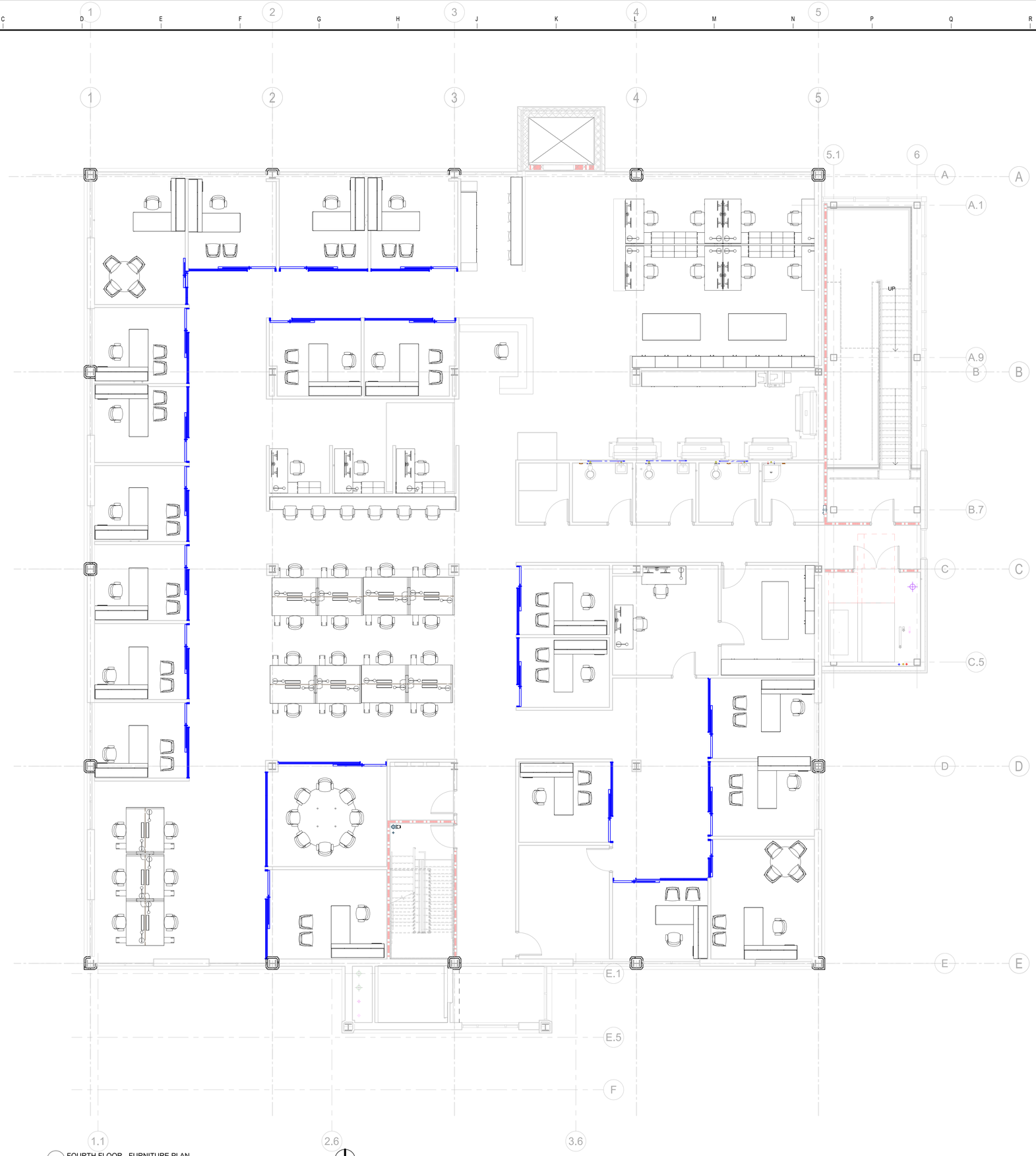

C14 FOURTH FLOOR - FURNITURE PLAN
3/16" = 1'-0"

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FOURTH FLOOR FURNITURE PLAN

Sheet No.

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ABBREVIATIONS
(NOT ALL ABBREVIATIONS USED)

#XX	NUMBER
A.F.F.	ABOVE FINISHED FLOOR
ADD'L	ADDITIONAL
ADJ	ADJACENT
ARCH.	ARCHITECTURAL
B.F.F.	BELOW FINISHED FLOOR
BLDG.	BUILDING
BOT	BOTTOM
BTWN	BETWEEN
C	STANDARD CHANNEL
CFS	COLD-FORMED STEEL
CJ	CONTROL/ CONSTRUCTION/ CONTRACTION JOINT
CJP	COMPLETE JOINT PENETRATION
CL	CENTER LINE
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION
CONT.	CONTINUOUS
D.B.	DECK BEARING
DBA	DEFORMED BAR ANCHOR
DIA	DIAMETER
DTL	DETAIL
E.F.	EACH FACE
EA.	EACH
ELEV.	ELEVATION
EW	EACH WAY
EXIST.	EXISTING
EXP.	EXPANSION
FF	FINISHED FLOOR
FLR	FLOOR
FS	FAR SIDE
FTG	FOOTING
G.C.	GENERAL CONTRACTOR
GA.	GAUGE
GALV.	GALVANIZED
H.S.	HIGH STRENGTH
HORIZ.	HORIZONTAL
HSS	ROUND, SQUARE, OR RECTANGULAR STRUCTURAL TUBING
ID	INSIDE DIAMETER
JT.	JOINT
K or k	KIP (1,000 LBS)
KCJ	KEYED CONTROL JOINT
KSI	KIPS PER SQUARE INCH
L	ANGLE
LBS	POUNDS
LF	LINEAL FOOT
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LSL	LONG SLOTTED HOLES
MANUF.	MANUFACTURER
MATL.	MATERIAL
MAX.	MAXIMUM
MC	MISCELLANEOUS CHANNEL
MECH.	MECHANICAL
MIN.	MINIMUM
MISC	MISCELLANEOUS
N.T.S.	NOT TO SCALE
NS	NEAR SIDE
Ø	DIAMETER
O.C.	ON CENTER
OD	OUTSIDE DIAMETER
OPP	OPPOSITE
P.J.	PANEL JOINT
PAF	POWDER ACTUATED FASTENER
PL	PLATE
PLBG	PLUMBING
PSF	POUNDS PER SQ FOOT
PSI	POUNDS PER SQ INCH
REINF.	REINFORCEMENT
REQ'D.	REQUIRED
SC	SLIP CRITICAL
SECT.	SECTION
SHT.	SHEET
SIM.	SIMILAR
SJ	SAWN JOINT
SPA.	SPACE
SQ	SQUARE
SSL	SHORT SLOTTED HOLES
STD.	STANDARD
T&B	TOP AND BOTTOM
T.O.F.	TOP OF FOOTING
T.O.S.	TOP OF STEEL or TOP OF SLAB
T.O.W.	TOP OF WALL
TC	TENSION CONTROL
THRU	THROUGH
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT. OR V	VERTICAL
VSC	VERTICAL SLIDING CLIP
W	WIDE FLANGE
W.W.R.	WELDED WIRE REINF.
w/	WITH
WP	WORK POINT
WT	TEE SHAPE MADE FROM W SHAPE
X/S-YYY	SECTION/DETAIL "X" ON SHEET "S-YYY"
XX#	POUNDS
ZRC	ZINC BASE PAINT

STRUCTURAL DESIGN CRITERIA

BUILDING CODE: 2021 ARKANSAS FIRE PREVENTION CODE (BASED ON 2021 IBC)

RISK CATEGORY (2021 IBC TABLE 1604.5): II

GRAVITY LOADS (REFERENCE: 2021 IBC & ASCE 7-16):

DEAD LOADS:	UNIFORM	
EXISTING FLOOR:	56 PSF	
NEW FLOOR:	82 PSF	
ROOF:	20 PSF	

FLOOR LIVE LOADS:	UNIFORM	CONCENTRATED
OFFICES	50 PSF	2000 LBS
STAIRS AND EXITWAYS	100 PSF	300 LBS
ASSEMBLY AREAS AND BALCONY	100 PSF	
CORRIDORS ABOVE FIRST FLOOR	80 PSF	2000 LBS
STORAGE AND SEWER ROOM	125 PSF	
MECHANICAL ROOMS	150 PSF	

(FLOOR LIVE LOADS ARE REDUCED IN ACCORDANCE WITH IBC SECTION 1607.10)

ROOF LIVE LOADS: 20 PSF (NON-REDUCIBLE)

RAIN LOADS:
- 15 MINUTE DURATION / 100 YR RETURN PERIOD i15 = 6.50 IN./H
- 60 MINUTE DURATION / 100 YR RETURN PERIOD i60 = 3.26 IN./H

SNOW LOADS:

GROUND SNOW LOAD	Pg = 10 PSF
FLAT ROOF SNOW LOAD	Pf = 06 PSF
SLOPED ROOF SNOW LOAD	Ps = 06 PSF
SNOW LOAD IMPORTANCE FACTOR	Is = 4.00
SNOW EXPOSURE FACTOR	Ce = 0.9
THERMAL FACTOR	Ct = 1.0

LATERAL LOADS (REFERENCE: 2021 IBC & ASCE 7-16):

WIND:

ULTIMATE WIND SPEED	Vult = 105 MPH
NOMINAL WIND SPEED	Vasd = 81 MPH
TERRAIN EXPOSURE	C
INTERNAL PRESSURE COEFFICIENTS	+/- 0.18
COMPONENTS & CLADDING WIND LOAD	SEE SHEET S-002

SEISMIC:

SEISMIC IMPORTANCE FACTOR	Ie = 1.00
MAPPED SPECTRAL RESPONSE ACCELERATIONS	Ss = 0.389 S1 = 0.150
SITE CLASS	D
DESIGN SPECTRAL RESPONSE ACCELERATIONS	SDS = 0.386 SD1 = 0.230
SEISMIC DESIGN CATEGORY	C

STEEL FRAMING:

SEISMIC FORCE RESISTING SYSTEM	STRUCTURAL STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
DESIGN BASE SHEAR	V = 0.129W
SEISMIC RESPONSE COEFFICIENT	Cs = 0.129
RESPONSE MODIFICATION COEFFICIENT	R = 3
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE

CMU WALL FRAMING:

SEISMIC FORCE RESISTING SYSTEM	ORDINARY REINFORCED MASONRY SHEAR WALL
DESIGN BASE SHEAR	V = 0.193W
SEISMIC RESPONSE COEFFICIENT	Cs = 0.193
RESPONSE MODIFICATION COEFFICIENT	R = 2
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE

SYSTEMS AND COMPONENTS REQUIRING SPECIAL INSPECTION: SEE SPECIFICATION SECTION 014533

STRUCTURAL DESIGN APPROACH:

THE EXISTING BUILDING CONSIST OF A FOUR STORY STEEL FRAMED BUILDING WITH NONCOMPOSITE STEEL FLOOR JOISTS AND STEEL ROOF JOISTS WITH A LIGHT WEIGHT INSULATED CONCRETE ROOF SYSTEM. THE FIRST TWO FLOORS WERE CONSTRUCTED IN 1972 WITH THE THIRD FLOOR AND ROOF BEING CONSTRUCTED IN 1983. EXISTING WIDE FLANGE GIRDERS ARE SUPPORTED BY WIDE FLANGE COLUMNS ON A SHALLOW FOUNDATION SYSTEM. THE EXISTING LATERAL STABILITY FOR THE BUILDING CONSISTS OF THE EXISTING CONCRETE DECK DIAPHRAGM AND MOMENT FRAME LATERAL SYSTEM IN EACH DIRECTION. RENOVATIONS FOR THE BUILDING CONSISTS OF INFILLING OF EXISTING ELEVATOR AND CENTRAL STAIR CASE WITH WIDE FLANGE BEAMS AND A NONCOMPOSITE FLOOR SYSTEM, ENLARGEMENT OF THE SOUTH STAIR WELL FOR A NEW STEEL FRAMED STAIR WITH NEW FLOOR FRAMING, THE ADDITION OF CANTILEVER FRAMING IN THE NORTHWEST CORNER OF THE BUILDING FOR AN ENCLOSED OFFICE ON THE THIRD FLOOR AND AN OPEN BALCONY ON THE THIRD FLOOR WITH FRAMING SUPPORTED BACK A BAY TO EXISTING GIRDERS, FLOOR JOIST REINFORCEMENT AT NEW STORAGE ROOMS, AN EXTERIOR STRUCTURALLY INDEPENDENT ELEVATOR IN THE NORTH WITH CMU WALL FRAMING, AND STEEL GIRDER REINFORCEMENT AND STEEL WIDE FLANGE FRAMING INFILL AT NEW OPENINGS.

A STRUCTURALLY INDEPENDENT FOUR STORY ENCLOSED STAIRWELL IS LOCATED ALONG THE EAST SIDE OF THE BUILDING. THE STRUCTURE WILL HAVE A STEEL DECK DIAPHRAGM AT THE ROOF SUPPORTED BY WIDE FLANGE BEAMS. BEAMS ARE SUPPORTED BY WIDE FLANGE AND HSS TUBE GIRDERS SUPPORTED BY HSS COLUMNS. FLOORS ARE SUPPORTED BY COMPOSITE FLOOR DIAPHRAGMS CONNECTED TO STEEL WIDE FLANGE BEAMS AND GIRDERS. HSS COLUMNS ARE TO BE SUPPORTED BY A MICROPILE DEEP FOUNDATION SYSTEM. THE SLAB IS TO BE SUPPORTED ON GRADE WITH CONTINUOUS FOOTINGS ALONG THE PERIMETER. THE LATERAL STABILITY IN EACH DIRECTION IS PROVIDED BY STEEL MOMENT FRAMES SUPPORTED ON THE NEW MICROPILE DEEP FOUNDATION SYSTEM.

ANOTHER STRUCTURALLY INDEPENDENT ONE STORY BUILDING IS LOCATED ALONG THE SOUTHWEST SIDE OF THE BUILDING WITH AN EXTENDED FRAMING THAT WRAPS AROUND THE EXISTING SOUTHERN ELEVATOR AND ENTRANCE. THE STRUCTURE WILL HAVE A STEEL DECK DIAPHRAGM AT ALL ROOFS SUPPORTED BY WIDE FLANGE BEAMS. BEAMS ARE SUPPORTED BY WIDE FLANGE AND HSS TUBE GIRDERS SUPPORTED BY HSS COLUMNS. HSS COLUMNS ARE TO BE SUPPORTED BY A MICROPILE DEEP FOUNDATION SYSTEM. THE SLAB IS TO BE SUPPORTED ON GRADE WITH CONTINUOUS FOOTINGS ALONG THE PERIMETER. THE LATERAL STABILITY IN EACH DIRECTION IS PROVIDED BY STEEL MOMENT FRAMES SUPPORTED ON THE MICROPILE DEEP FOUNDATION SYSTEM. A PREFABRICATED ONE STORY CANOPY IS LOCATED ADJACENT TO THIS EXPANSION AND IS SUPPORTED BY A SHALLOW FOUNDATION SYSTEM.

THE STRUCTURALLY INDEPENDENT ELEVATOR TO THE NORTH OF THE BUILDING EXTENDS FOUR STORIES TO THE EXISTING ROOF. THE ROOF OF THE ELEVATOR WILL CONSIST OF A METAL ROOF DIAPHRAGM SUPPORTED BY STEEL BEAMS. BEAMS ARE SUPPORTED BY REINFORCED CMU WALLS ON ALL SIDES THAT ARE SUPPORTED BY A NEW PIT FOR THE ELEVATOR WITH A MICROPILE DEEP FOUNDATION SYSTEM. LATERAL IN EACH DIRECTIONS IS PROVIDED BY ORDINARY REINFORCED MASONRY SHEAR WALLS ON A MICROPILE DEEP FOUNDATION SYSTEM.

STRUCTURAL GENERAL NOTES

A. CONTRACTOR DELEGATED DESIGN COMPONENTS:
1. THE FOLLOWING ITEMS ARE NOTED AS A DELEGATED DESIGN COMPONENT AND SHALL BE DESIGNED BY THE CONTRACTOR. THE CONTRACTOR SHALL EMPLOY A SPECIALTY STRUCTURAL ENGINEER LICENSED IN THE STATE OF ARKANSAS TO DESIGN THE FOLLOWING ITEMS:
   a. SHORING AND TEMPORARY STRUCTURES
   b. MICROPILES
   c. METAL STAIRS
   d. PIPE AND TUBE RAILING
   e. COLD-FORMED STEEL FRAMING
   f. CURTAIN WALL / STOREFRONT SYSTEMS
2. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR EACH DELEGATED DESIGN COMPONENT. ALL STRUCTURAL DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY THE SPECIALTY STRUCTURAL ENGINEER. THE DRAWINGS SHALL BE REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR AND THE DESIGN ENGINEER PRIOR TO SUBMITTAL. INCOMPLETE SHOP DRAWINGS AND SHOP DRAWINGS THAT HAVE NOT BEEN REVIEWED BY THE CONTRACTOR AND THE SPECIALTY STRUCTURAL ENGINEER WILL BE RETURNED WITHOUT REVIEW BY THE ARCHITECT/ENGINEER.
3. THE CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ALL DELEGATED DESIGN COMPONENTS AND THEIR ACCESSORIES WITH OTHER TRADES TO AVOID CONFLICTS, e.g., JOIST BRIDGING AND FIRE SUPPRESSION SYSTEMS.

B. SPECIAL INSPECTIONS:
1. QUALIFIED INSPECTORS SHALL CONDUCT SPECIAL INSPECTIONS AND TESTS AND FURNISH REPORTS AS SPECIFIED IN SECTION 014533 AND IN ACCORDANCE WITH CHAPTER 17, INTERNATIONAL BUILDING CODE.
2. THE CONTRACTOR SHALL COORDINATE THE SPECIAL INSPECTIONS AND TESTING SERVICES WITH THE PROGRESS OF THE WORK, PROVIDE THE APPROPRIATE DOCUMENTATION AND PERFORM OTHER TASKS AS SPECIFIED IN SECTION 014533.
3. CONSTRUCTION THAT REQUIRES CONTINUOUS INSPECTION PER SECTION 014533 CAN NOT PROGRESS WITHOUT INSPECTORS PRESENT.
4. THE CONTRACTOR IS RESPONSIBLE FOR ALL OTHER INSPECTIONS OR TESTS IN THE SPECIFICATIONS, NOT LISTED IN THE SCHEDULE OF SPECIAL INSPECTION SERVICES IN SECTION 014533.
5. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF REPAIR, REINSPECTION AND RETESTING FOR ITEMS THAT DO NOT PASS THE INSPECTIONS OR TESTS.
6. SPECIAL INSPECTION SERVICES DO NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR COMPLIANCE WITH OTHER CONSTRUCTION DOCUMENT REQUIREMENTS OR REGULATORY REQUIREMENTS.
7. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF DEMOLITION, RECONSTRUCTION, INSPECTION AND TESTING OF ANY WORK COMPLETED WITHOUT INSPECTION AND TESTING AS SPECIFIED IN SECTION 014533.

C. STABILITY DURING CONSTRUCTION, SHORING, & TEMPORARY STRUCTURES:
1. PERMANENT STABILITY OF THE BUILDING AND COMPONENTS IS NOT PROVIDED UNTIL ALL THE STRUCTURAL ELEMENTS ARE INSTALLED AS SHOWN ON THE CONTRACT DRAWINGS.
2. PROVIDE STABILITY TO ALL NON-SELF SUPPORTING ELEMENTS UNTIL PERMANENT STRUCTURAL SUPPORTS ARE INSTALLED. PROVIDE BRACING, SHORING, AND/OR TEMPORARY STRUCTURES AS REQUIRED IN ORDER TO SATISFY THE CONTRACT REQUIREMENTS.
3. PROVIDE ALL BRACING NECESSARY TO STABILIZE THE BUILDING DURING THE ERECTION PROCESS. BRACING SHALL BE DESIGNED AND INSTALLED SUCH THAT IT DOES NOT TWIST OR DISTORT MEMBERS. BRACING SHALL BE DESIGNED FOR LOADS AS REQUIRED BY APPLICABLE CODES. THE DESIGN OF THE BRACING SHALL TAKE INTO ACCOUNT FORCES DUE TO THERMAL EXPANSION AND CONTRACTION OF THE BUILDING FRAME AND BRACES.
4. ANCHOR RODS FOR STEEL COLUMNS ARE NOT DESIGNED TO STABILIZE STRUCTURE BY PROVIDING FIXITY OF THE COLUMN BASE. PROVIDE TEMPORARY BRACING FOR STABILITY DURING THE ERECTION PHASE UNTIL ALL LATERAL LOAD RESISTING ELEMENTS ARE IN PLACE AND WELDING AND/OR BOLTING INSPECTIONS ARE COMPLETE.
5. COMPLY WITH ALL APPLICABLE OSHA SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION.

D. RENOVATIONS AND ADDITIONS TO EXISTING BUILDINGS:
1. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY ARCHITECT/ENGINEER IF THE EXISTING CONDITIONS AND DIMENSIONS ARE DIFFERENT FROM THOSE INDICATED OR SHOWN ON THE CONTRACT DRAWINGS. INCORPORATE NECESSARY CHANGES INTO THE CONTRACT DOCUMENTS.
2. SCHEDULE AND COORDINATE WORK TO PREVENT DAMAGE TO THE BUILDING OUTSIDE THE LIMITS OF THE CONTRACT. REPAIR AT NO ADDITIONAL COST TO THE OWNER ANY DAMAGE CAUSED BY THE CONSTRUCTION.
3. INSTALL PIPING, CONDUIT, ETC. WITHIN THE EXISTING STRUCTURE AND UNDER THE EXISTING FLOOR SLAB/STRUCTURE AS SHOWN ON THE CONTRACT DOCUMENTS. UNLESS SHOWN OTHERWISE, ESTABLISH THE METHOD OF INSTALLATION AND REPAIR AND REPLACEMENT OF THE FLOOR STRUCTURE INCLUDING THE SLAB ON GRADE.
4. FIELD VERIFY SIZES AND LAYOUT OF EXISTING STRUCTURAL MEMBERS NOTED ON THE STRUCTURAL DRAWINGS. NOTIFY ARCHITECT/ENGINEER IF SIZES OR LAYOUT DIFFERS. INCORPORATE NECESSARY CHANGES INTO THE CONTRACT DOCUMENTS.
5. DO NOT OVER CUT OPENINGS IN EXISTING CONCRETE FLOORS. SAW TO EDGE OF OPENING WITH A CIRCULAR CONCRETE SAW & REMOVE PORTION LEFT WITH CHAIN SAW TYPE CONCRETE SAW OR SIMILAR.

E. GENERAL REQUIREMENTS:
1. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH DRAWINGS RELATING TO OTHER TRADES. CHECK AND COORDINATE DIMENSIONS, CLEARANCES, OPENINGS, PIPE SLEEVES, CURBS, ETC. WITH THE WORK OF OTHER TRADES.
2. WORK NOT INDICATED ON A PART OF THE DRAWING BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE REPEATED.
3. DETAILS DESIGNATED AS "TYPICAL" APPLY TO ALL AREAS WHERE THE CONDITIONS ARE SIMILAR TO THOSE DESCRIBED IN THE DETAIL.
4. THE PLANS AND DETAILS IN THE CONTRACT DRAWINGS SHALL NOT BE REVISED WITHOUT PRIOR APPROVAL BY THE ARCHITECT/ENGINEER.
5. ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS.
6. PRINCIPAL OPENINGS THROUGH THE FRAMING ARE SHOWN ON THESE DRAWINGS. EXAMINE THE DRAWINGS FOR REQUIRED OPENINGS AND PROVIDE FOR ALL OPENINGS WHETHER SHOWN ON THE STRUCTURAL DRAWINGS OR NOT. VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ALL SUB-CONTRACTORS. PIPE SLEEVES THROUGH THE DECK WILL NOT REQUIRE ADDITIONAL FRAMING UNLESS THE DIAMETER EXCEEDS 10".
7. SPLICING OF STRUCTURAL MEMBERS WHERE NOT DETAILED IS PROHIBITED WITHOUT PRIOR APPROVAL OF ARCHITECT/ENGINEER. IF APPROVED, ADDITIONAL TESTING AND INSPECTION SHALL BE AS SPECIFIED BY THE ARCHITECT/ENGINEER AND PAID FOR BY THE CONTRACTOR.
8. NO CHANGE IN SIZE OR POSITION OF THE STRUCTURAL ELEMENTS SHALL BE MADE: HOLES, SLOTS, CUTS, ETC., ARE NOT PERMITTED THROUGH ANY MEMBER UNLESS THEY ARE DETAILED ON THE APPROVED SHOP DRAWINGS.
9. LOADINGS FOR MECHANICAL ROOMS ARE BASED ON THE WEIGHTS OF ASSUMED EQUIPMENT AS INDICATED ON THE MECHANICAL DRAWINGS (INCLUDING THE WEIGHT OF CONCRETE PADS, WHERE INDICATED). ANY CHANGES IN TYPE, SIZE, OR NUMBER OF PIECES OF EQUIPMENT SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR VERIFICATION OF THE ADEQUACY OF SUPPORTING MEMBERS PRIOR TO THE PLACEMENT OF SUCH EQUIPMENT.
10. IF A DIFFERENT ELEVATOR IS SELECTED SUCH THAT FRAMING AND/OR FOUNDATION CHANGES ARE REQUIRED, INCLUDE AN ALLOWANCE FOR THE ENGINEER TO REDESIGN TO ACCOMMODATE THE ELEVATOR REQUIREMENTS.

F. SHOP DRAWINGS:
1. SUBMIT SHOP DRAWINGS FOR REVIEW BY THE ARCHITECT/ENGINEER FOR THE FOLLOWING ITEMS. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS:
   a. MICROPILES
   b. CONCRETE REINFORCING STEEL
      1. INDICATE ALL REINFORCING STEEL IN FOUNDATIONS, SLABS ON GRADE, RETAINING WALLS, AND GRADE BEAMS .
      2. INDICATE ALL HORIZONTAL, VERTICAL, AND TIE REINFORCING
      3. INDICATE TYPE AND LOCATION OF ALL REINFORCING STEEL SPLICES
   c. CONCRETE MASONRY
      1. INDICATE VERTICAL REINFORCING LOCATION AND METHOD OF SPLICE.
      2. INDICATE LOCATION OF CORES FILLED WITH GROUT.
      3. INDICATE BOND BEAM REINFORCING LOCATIONS, LENGTH, AND SPLICES.
   d. STRUCTURAL STEEL
   e. METAL DECKING
   f. COLD-FORMED STEEL FRAMING
   g. METAL STAIRS
   h. PIPE AND TUBE RAILINGS
2. SUBMIT OTHER SHOP DRAWINGS FOR REVIEW BY ARCHITECT/ENGINEER AS REQUIRED BY PROJECT SPECIFICATIONS.
3. DETAILS FOR SOME SPECIAL CONDITIONS WILL NEED TO BE DEVELOPED BY THE DETAILER DURING THE DETAILING PROCESS. FINAL REVIEW OF THE DETAILS WILL BE AT THE DISCRETION OF THE ENGINEER OF RECORD. NO ADDITIONAL CHARGES FOR MAKING CORRECTIONS, CHANGES, OR ADDITIONS TO THE SHOP DRAWINGS ("RE-DETAILING COST") WILL BE ALLOWED. CONTRACTOR SHALL MAKE PROVISIONS FOR DETAILING CORRECTIONS AND MISCELLANEOUS MATERIAL IN THE BID PRICE. ADJUSTMENTS TO THE CONTRACT WILL ONLY BE MADE FOR CHANGE ORDERS APPROVED PRIOR TO THE COMMENCEMENT OF ANY ACTION ON THE CHANGES.
4. ALL SHOP DRAWINGS SHALL BE REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR / CONSTRUCTION MANAGER PRIOR TO SUBMITTAL. INCOMPLETE SHOP DRAWINGS AND SHOP DRAWINGS THAT HAVE NOT BEEN REVIEWED BY THE CONTRACTOR WILL BE RETURNED WITHOUT REVIEW BY THE ARCHITECT/ENGINEER.
5. VERIFY AND COORDINATE ALL DIMENSIONS AND ELEVATIONS SHOWN ON STRUCTURAL DRAWINGS WITH ARCHITECTURAL DRAWINGS. IN CASE OF CONFLICTS, THE ARCHITECT/ENGINEER IS TO BE NOTIFIED AND WILL PROVIDE THE CORRECT ELEVATIONS AND DIMENSIONS FOR WHICH SHALL BE INCORPORATED INTO THE SHOP DRAWINGS AT NO EXTRA COST.

G. EARTHWORK:
1. FOUNDATION DESIGN IS BASED ON SOIL INVESTIGATION AND REPORT TO BE PROVIDED BY GRUBBS, HOSKYN, BARTON, AND WYATT, LLC A UES COMPANY (JOB NO. A24184.00536).
2. FOUNDATION DESIGN IS BASED ON THE FOLLOWING MINIMUM NET ALLOWABLE BEARING PRESSURE:
   a. CONTINUOUS FOOTINGS: 1.00 KSF
   b. INDIVIDUAL PAD FOOTINGS: 1.25 KSF
   ALL FOUNDATION BEARING CONDITIONS SHALL BE VERIFIED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.
3. BOTTOM OF FOUNDATION ELEVATIONS ARE GIVEN FOR BIDDING PURPOSES ONLY. ALL FOUNDATIONS SHALL BE FOUNDED A MINIMUM OF 2 FEET BELOW EXISTING GRADE IN PROPERLY COMPACTED SELECT FILL, COMPACT ONSITE STRATUM I FILL, OR THE NATURAL STIFF FINE CLAY STRATUM.
4. PROOF-ROLL THE ON-SITE SUBGRADE TO VERIFY SUITABLE SUBGRADE SUPPORT AT SLAB ON GRADE CONSTRUCTION. LOCALIZED UNDERCUTS OF 2 TO 4 FEET WITH A HEAVY GEOTEXTILE FABRIC AND SELECT GRANULAR FILL IS REQUIRED. 6" OF THICK CLEAN CRUSHED STONE IS TO BE PREPARED OVER SUBGRADE.
5. THE SILTY CLAY SOILS ENCOUNTERED BENEATH THE FILL AT THE SURFACE OF THE SITE ARE SUBJECT TO STRENGTH LOSS UPON SATURATION, THUS CREATING POTENTIAL CONSTRUCTION DIFFICULTIES. THEREFORE, IT IS RECOMMENDED THAT DISTURBANCE OF THESE UPPER SOILS BE KEPT TO A MINIMUM WHENEVER POSSIBLE. EXCAVATION SHOULD BE INITIATED DURING DRIER SEASONS OF THE YEAR. POSITIVE SURFACE DRAINAGE IS IMPORTANT DURING THE INITIAL PHASES OF SITE GRADING AND SHOULD BE MAINTAINED DURING CONSTRUCTION AND FOLLOWING COMPLETION OF THE STRUCTURE TO PREVENT SURFACE PONDING AND SUBSEQUENT SATURATION OF THE SUB GRADE SOILS. IF CONSTRUCTION IS INITIATED DURING WETTER SEASONS OF THE YEAR, IT IS LIKELY THAT A PERCHED GROUND WATER CONDITION WILL EXIST AND MINOR SEEPAGE INTO EXCAVATIONS MAY OCCUR IN LOCALIZED AREAS.
6. TAKE ADEQUATE MEASURES TO ALLOW FOR WORKING SURFACE DURING CONSTRUCTION OF FOUNDATIONS AND SLAB-ON-GRADE, SUCH AS GRAVEL BED OF ADEQUATE DEPTH, ETC.
7. PROVIDE EARTH RETENTION SYSTEMS AND TEMPORARY BRACING OR SHORING (INCLUDING UNDERPINNING) AS REQUIRED TO SUPPORT EXCAVATIONS AND TO PROTECT EXISTING STRUCTURES DURING CONSTRUCTION. TRENCHING AND EXCAVATIONS SHALL MEET ALL OSHA REQUIREMENTS.
8. WATER ACCUMULATION IS ANTICIPATED IN FOOTING EXCAVATIONS; PROVIDE DRAINAGE OF EXCAVATIONS FROM SURFACE WATER AND SEEPAGE. EXCAVATIONS SHALL BE DRAINED OR PUMPED DRY BEFORE POURING CONCRETE.
9. PROTECT ALL UTILITY LINES, ETC. ENCOUNTERED DURING EXCAVATION AND BACKFILLING.
10. NO BACKFILLING SHALL BE DONE AGAINST FOUNDATION WALLS AND GRADE BEAMS UNTIL CONCRETE HAS ATTAINED ITS FULL DESIGN STRENGTH. BEFORE BACKFILLING, PROVIDE BRACING FOR WALLS OR GRADE BEAMS SUSTAINING MORE THAN 3'-0" OF EARTH PRESSURE. THIS BRACING SHALL REMAIN IN PLACE UNTIL SLAB ON GRADE AND/OR FLOOR SLAB HAVE BEEN PLACED AND CURED.
11. IN NO CASE SHALL BULLDOZERS OR OTHER HEAVY EQUIPMENT BE PERMITTED CLOSER THAN 8'-0" FROM ANY FOUNDATION WALL.

H. MICRO PILES:
1. FOUNDATIONS SUPPORTED BY MICRO PILES ARE BASED ON:
   a. MAXIMUM ALLOWABLE COMPRESSIVE LOAD OF 35 KIPS
   b. MAXIMUM ALLOWABLE TENSION LOAD OF 5 KIPS
   c. ANTICIPATED MINIMUM DEPTH OF 18 FEET BELOW THE SUPPORTED ELEMENT
2. GROUT USED IN THE CONSTRUCTION OF MICRO PILES SHALL MEET THE FOLLOWING REQUIREMENTS:
   a. MINIMUM COMPRESSIVE STRENGTH, f'c = 4000 PSI
   b. MAXIMUM WATER/CEMENT RATIO = 0.45
   c. TYPE III CEMENT CONFORMING TO ASTM C150
3. A MINIMUM OF 10 PERCENT OF THE PRODUCTION MICRO PILES SHALL BE PROOF TESTED FOR A COMPRESSIVE LOAD OF 1.3 TIMES THE DESIGN LOAD. PROVIDE ADDITIONAL TESTING AS REQUIRED BY THE MICRO PILE DESIGN ENGINEER AND THE GEOTECHNICAL ENGINEER. TESTS ARE TO BE WITNESSED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER.
4. THE DEPTH SHALL BE CONFIRMED OR ADJUSTED BY THE MICRO PILE DESIGNER WITH A MINIMUM DEPTH OF 18 FEET BELOW EXISTING GRADE.
5. INSTALL MICRO PILES FOR EXISTING BUILDING COLUMN FOOTINGS BEFORE REMOVAL OF ANY EXISTING FOUNDATION OR EXCAVATION FOR PITS THAT EXTEND BELOW THE BOTTOM OF FOOTINGS.
6. MICRO PILE CONNECTIONS SHOWN ON THE DRAWINGS ARE EXAMPLES OF TYPICAL CONSTRUCTION AND ARE SHOWN FOR INTENT ONLY. MICRO PILE DESIGNER SHALL BE RESPONSIBLE FOR CONNECTIONS OF MICRO PILES TO NEW AND EXISTING FOUNDATION ELEMENTS.

I. CONCRETE AND REINFORCING STEEL:
1. THE DESIGN OF THE CONCRETE STRUCTURE IS BASED ON ACI318-19 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
2. CAST IN PLACE CONCRETE SHALL HAVE THE FOLLOWING MINIMUM 28 DAY COMPRESSIVE STRENGTHS (f'c):

COMPONENT	COMPRESSIVE STRENGTH
FOOTINGS	3500 PSI
WALLS, GRADE BEAMS, AND EXTERIOR SLABS	4500 PSI
INTERIOR SLABS ON GRADE	3500 PSI
FLOOR SLABS ON STEEL DECK	3500 PSI

   SEE SPECIFICATION SECTION 033000 FOR ADDITIONAL MIX DESIGN REQUIREMENTS.
3. ALL DEFORMED REINFORCING STEEL SHALL BE A615 GRADE 60 STEEL, U.N.O.
4. ALL WELDED WIRE REINFORCING STEEL SHALL BE A1064. ALL WELDED WIRE REINFORCEMENT SHALL BE PROVIDED IN SHEETS.
5. ALL CONCRETE WORK SHALL CONFORM TO THE LATEST ACI CODE AND ACI DETAILING MANUAL.
6. MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE:

CONCRETE CAST AGAINST EARTH:	3"
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#5 BARS AND SMALLER:	1 ½"
#6 BARS AND LARGER:	2"
SLABS, WALLS, AND JOISTS:	1"
BEAMS AND COLUMNS:	1 ½"

7. ALL CONCRETE CONSTRUCTION AND MATERIALS SHALL BE PLACED ACCORDING TO ACI 117 TOLERANCES.
8. ALL CONCRETE REINFORCING STEEL SHALL BE SPLICED USING TENSION SPLICES:
   a. UNLESS NOTED OTHERWISE, LAP SPLICE ALL CONCRETE REINFORCING STEEL:

BARS #6 AND SMALLER:	48 BAR DIAMETERS
BARS #7 AND LARGER:	60 BAR DIAMETERS
WELDED WIRE REINFORCING:	ONE MESH PLUS 2"

   b. ONLY APPROVED MECHANICAL SPLICE SYSTEMS SHALL BE USED TO PROVIDE TENSION SPLICES. MECHANICAL SPLICES SHALL DEVELOP 125% OF THE YIELD STRENGTH OF THE BAR.
9. ALL CONCRETE REINFORCING SHALL BE SPLICED WHERE DETAILED ON THE DRAWINGS. UNLESS NOTED OTHERWISE:
   a. LAP GRADE BEAM AND WALL TOP REINFORCEMENT AT CENTER OF SPAN.
   b. LAP GRADE BEAM AND WALL BOTTOM REINFORCEMENT AT SUPPORT.
   c. STAGGER ALL TENSION LAP SPLICE LOCATIONS.
10. TERMINATE CONTINUOUS BARS AT NON-CONTINUOUS END WITH STANDARD HOOKS.
11. PROVIDE CORNER BARS IN ALL CONCRETE MEMBERS AT INTERSECTIONS. MATCH SIZE AND SPACING OF HORIZONTAL BARS IN THOSE MEMBERS.
12. AT COMPOSITE SLAB CONSTRUCTION REINFORCING BARS SHALL BE ADDED IN THE TOP OF THE SLAB CENTERED OVER, AND PERPENDICULAR TO ALL STEEL GIRDERS AND AROUND COLUMNS AS INDICATED IN THE TYPICAL DETAILS. GIRDERS ARE DEFINED AS STEEL BEAMS SUPPORTING OTHER (ONE OR MORE) BEAMS OR JOISTS.
13. ALL REINFORCING STEEL SHALL BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. ADDITIONAL BARS OR STIRRUPS SHALL BE PROVIDED AS REQUIRED TO FURNISH SUPPORT FOR ALL REINFORCING STEEL.
14. PROVIDE SUPPORT FOR ALL CONCRETE REINFORCING (INCLUDING SLABS ON GRADE AND ELEVATED COMPOSITE SLABS) AS REQUIRED TO MAINTAIN CLEAR COVER DIMENSIONS. SPACING SHALL NOT EXCEED 3'-0".
15. SUBMIT DRAWINGS SHOWING INTENDED POURING SEQUENCE AND LOCATION OF CONSTRUCTION JOINTS TO THE ARCHITECT/ENGINEER FOR APPROVAL.
16. HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE PERMITTED UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS. HORIZONTAL OR NEAR HORIZONTAL JOINTS SHALL BE PREPARED BY ROUGHENING THE SURFACE IN AN APPROVED MANNER SO THAT THE AGGREGATE IS EXPOSED UNIFORMLY, LEAVING NO LAITANCE, LOOSENED PARTICLES, OR DAMAGED CONCRETE.
17. PIPES OR CONDUITS PLACED IN FOUNDATIONS AND SLABS SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS ON CENTERS. PIPES AND CONDUITS PLACED IN SLAB SHALL NOT HAVE AN OUTSIDE DIAMETER LARGER THAN 1/3 OF SLAB THICKNESS. ALUMINUM CONDUITS SHALL NOT BE PLACED IN CONCRETE. NO CONDUIT SHALL BE PLACED WITHIN 24" OF COLUMN FACE.
18. LOCATION OF SLOTTED INSERTS, WELD PLATES AND ALL OTHER ITEMS TO BE EMBEDDED IN CONCRETE SHALL BE COORDINATED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
19. REINFORCING BARS SHALL NOT BE WELDED.
20. VERIFY DIMENSIONS AND LOCATIONS OF ALL OPENINGS, PIPE SLEEVE CURBS, ETC., AS REQUIRED BY OTHER TRADES BEFORE CONCRETE IS PLACED.
21. AGGREGATE FOR CONCRETE SHALL NOT CONTAIN LIGNITE, STEEL, OR OTHER MATERIALS THAT MAY BE DETRIMENTAL TO THE CONCRETE. ALKALI-SILICA REACTIVE (ASR) AGGREGATES ARE NOT ALLOWED.
22. MAXIMUM TOLERANCE FOR SLAB EDGES IS 1/2" +/- EXCEPT WHERE TIGHTER TOLERANCE IS REQUIRED FOR ARCHITECTURAL REASONS.
23. CONCRETE SHALL BE PLACED AND CURED IN ACCORDANCE WITH THE SPECIFICATIONS. WHEN THE AIR TEMPERATURE IS OVER 85 DEGREES FOLLOW THE RECOMMENDATIONS OF ACI 305R. WHEN THE AIR TEMPERATURE IS BELOW 40 DEGREES FOLLOW THE RECOMMENDATIONS OF ACI 306R.

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NOT FOR CONSTRUCTION

DESIGN DEVELOPMENT

No.	Issue	Date

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GENERAL NOTES AND DESIGN CRITERIA

Sheet No.
S-001

Project Name
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STRUCTURAL GENERAL NOTES CONTINUED

J. MASONRY WALLS:

1. THE DESIGN OF THE MASONRY WALLS IS BASED ON TMS 402-16 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES.
2. SPECIFIED DESIGN COMPRESSIVE STRENGTH: f'm = 2,500 PSI. PER THE UNIT STRENGTH METHOD.
3. CONCRETE BLOCK SHALL CONFORM TO ASTM C-90, NORMAL WEIGHT UNITS.
4. MORTAR SHALL CONFORM TO ASTM C-270.
   a. TYPE S: LOAD-BEARING WALL AND BELOW GRADE
5. GROUT SHALL CONFORM TO ASTM C476. GROUT SLUMP SHALL BE BETWEEN 9" AND 11". MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 2500 PSI.
6. PROVIDE TEMPORARY BRACING FOR ALL MASONRY WALLS UNTIL PERMANENT LATERAL SUPPORT IS COMPLETE.
7. PIPES, CONDUIT, AND OTHER ITEMS SHALL NOT BE PLACED IN MASONRY CELLS WITH VERTICAL OR HORIZONTAL REINFORCING.
8. FILL ALL BOND BEAMS, CELLS CONTAINING VERTICAL BARS, AND CELLS CONTAINING EXPANSION ANCHORS, STEEL EMBEDS, OR OTHER ANCHORS WITH FINE GROUT. ALL GROUT SHALL BE CONSOLIDATED AND RECONSOLIDATED BY USE OF A MECHANICAL VIBRATOR.
9. DO NOT PLACE LOADS ON BOND BEAMS OR MASONRY CELLS FILLED WITH GROUT UNTIL THE GROUT HAS CURED FOR A MINIMUM OF 3 DAYS.
10. MASONRY CONSTRUCTION SHALL NOT PROGRESS WITHOUT PERIODIC AND CONTINUOUS INSPECTION AND TESTING AS SPECIFIED IN THE SCHEDULE OF SPECIAL INSPECTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COST OF DEMOLITION, RECONSTRUCTION, INSPECTION AND TESTING OF ANY MASONRY CONSTRUCTED WITHOUT THE SPECIFIED INSPECTIONS AND TESTING.

K. STRUCTURAL STEEL:

1. THE DESIGN OF STRUCTURAL STEEL IS BASED ON AISC 360-16, SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.
2. ALL STEEL MEMBERS SHALL CONFORM TO:

SECTION	ASTM STANDARD	YIELD STRENGTH
WIDE FLANGE AND CHANNELS	A992	50 KSI
ANGLES, PLATES, AND BARS	A572	50 KSI
SQUARE HSS	A500 GRADE C OR A1085	50 KSI

3. ALL BOLTED CONNECTIONS FOR STRUCTURAL STEEL TO STEEL SHALL BE ASTM F3125, GRADE F1852 "TWIST-OFF" STYLE TENSION CONTROL BOLT ASSEMBLIES (SHOP AND FIELD), UNLESS NOTED OTHERWISE. "H.S. BOLTS" DESIGNATES F1852 BOLT ASSEMBLIES.
4. ALL WELDING ELECTRODES FOR STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO AWS A5.1 GRADE E-70 BARE ELECTRODES.
5. COLUMN ANCHOR RODS SHALL CONFORM TO ASTM F1554 GRADE 36. ANCHOR RODS SHALL HAVE A PLATE WASHER PER AISC TABLE 14-2 AND ONE HEAVY HEX NUT AT THE TOP AND ONE HEAVY HEX NUT AT THE BOTTOM TACK WELDED TO THE ROD, UNLESS NOTED OTHERWISE.
6. PLACE AND SECURE ANCHOR RODS IN FOOTING EXCAVATION PRIOR TO POURING CONCRETE FOR FOOTING. DO NOT PLACE ANCHOR RODS IN WET CONCRETE.
7. PROVIDE LEVELING NUTS OR SHIM PACKS AS REQUIRED TO LEVEL COLUMN BASE PLATES. IF SHIM PACKS ARE USED, ENCASE SHIM PACKS WITH 1" MIN COVER OF NON-SHRINK GROUT WHEN PLACING GROUT UNDER BASE PLATE.
8. CONNECTION DETAILING:
   a. CONNECTIONS SHALL BE DETAILED AS INDICATED IN THE DRAWINGS, UNO.
   b. THE FABRICATOR'S STEEL DETAILER SHALL SELECT AND COMPLETE TYPICAL CONNECTIONS BASED ON THE PLANS AND THE FOLLOWING:
      1. TYPICAL STEEL BEAM AND GIRDER TO COLUMN CONNECTIONS: DETAIL 2/S-401.
      2. TYPICAL STEEL BEAM-TO-BEAM CONNECTIONS: DETAIL 3/S-401.
      3. TYPICAL CONNECTIONS SHALL USE, AS A MINIMUM, THE NUMBER OF BOLTS INDICATED IN THE TYPICAL DETAILS.
      4. IF BEAM END REACTIONS ARE LARGER THAN THE CAPACITY INDICATED IN THE SCHEDULES THE ARCHITECT/ENGINEER SHALL BE NOTIFIED FOR GUIDANCE.
   c. ANY NON-TYPICAL CONNECTIONS THAT ARE NOT DETAILED IN THE DRAWINGS SHALL BE DESIGNED BY THE FABRICATOR FOR THE LOADS INDICATED IN THE DRAWINGS. THE DESIGN SHALL BE DONE BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF ARKANSAS. THE CONNECTION DETAILS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER AND SUBMITTED TO THE ARCHITECT/ENGINEER FOR APPROVAL.
9. ALL STEEL FABRICATION AND ERECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE.
10. THE STRUCTURAL STEEL FRAMING FABRICATOR SHALL BE AN AISC CERTIFIED BUILDING FABRICATOR (BU).
11. ALL STEEL DETAILS SHALL BE IN ACCORDANCE WITH THE REQUIREMENT OF THE LATEST AISC SPECIFICATIONS WITH LATEST REVISIONS.
12. SUPPLY STRUCTURAL STEEL FRAMING CONNECTIONS THAT COMPLY WITH OSHA STANDARDS. IF MEETING THESE STANDARDS CONFLICTS WITH ANYTHING SHOWN IN THESE DRAWINGS THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING ADVISING OF ANY REQUIRED REVISIONS AND ACQUIRE THE ENGINEER'S APPROVAL BEFORE PROCEEDING WITH THE WORK.
13. THE MINIMUM PLATE THICKNESS SHALL BE 1/4", THE MINIMUM WELD SHALL HAVE A 3/16" THICK THROAT, THE MINIMUM BOLT DIAMETER SHALL BE 3/4", AND THE MINIMUM CONNECTION SHALL BE TWO BOLTS, U.N.O.
14. ALL COLUMN BEARING PLATES SHALL BE SIZED AS SHOWN ON DETAIL AND SHALL HAVE ROLLED OR GAS CUT EDGES. MINIMUM EDGE DISTANCE TO CENTER OF BOLT HOLE, SPACING OF HOLES, AND SIZES OF HOLES SHALL BE AS PER AISC MANUAL UNLESS NOTED OTHERWISE.
15. ALL STEEL NOT REQUIRED TO BE SHOP PAINTED (SEE SPECIFICATIONS) SHALL BE CLEANED OF OIL, GREASE, DIRT, RUST, LOOSE MILL SCALE, ETC. AND ALL OTHER FOREIGN MATERIALS.
16. GALVANIZING OF ALL STEEL MEMBERS SHALL CONFORM TO ASTM A123. ALL GALVANIZED STEEL REQUIRED TO BE PAINTED SHALL BE CLEANED AND PREPPED ACCORDING TO ASTM D6386.
17. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS IN ACCORDANCE WITH AWS SPECIFICATIONS LATEST EDITIONS. WELDING SHALL BE INSPECTED AND TESTED AS NOTED IN THE SPECIFICATIONS. WELDING INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELDING INSPECTOR.
18. FINAL BOLTING OR WELDING SHALL NOT BE PERFORMED UNTIL THE STRUCTURE HAS BEEN PROPERLY ALIGNED. ERECT AND FULLY WELD AND INSPECT FIELD BUILT STEEL TRUSSES BEFORE ANY LOADS ARE APPLIED. SHORE TRUSS MEMBERS AS REQUIRED. CONTACT ARCHITECT/ENGINEER FOR APPROVAL BEFORE REMOVING SHORING AND LOADING THE TRUSSES.
19. THE STEEL FRAME FOR THE BUILDING RELIES ON THE BRACED FRAMES ALONG GRIDS STABILITY IN THE NORTH-SOUTH DIRECTION AND BRACED FRAMES IN THE EAST-WEST DIRECTION. TEMPORARILY BRACE THESE FRAMES UNTIL THE BRACES ARE IN PLACE AND FULLY WELDED. TEMPORARILY BRACE ALL OTHER FRAMES/COLUMNS UNTIL THE BRACED FRAMES ARE COMPLETE AND THE STEEL DECK AND CONCRETE ARE IN PLACE AND WELDING IS APPROVED.
20. CONCRETE SLABS ON STEEL BEAMS SHALL BE POURED BASED ON THE FINAL TOP OF SLAB ELEVATION AFTER THE CONCRETE IS PLACED. THE THICKNESS OF THE SLAB ABOVE THE BEAM AS INDICATED ON THE DRAWINGS IS THE MINIMUM THICKNESS ALLOWED. THE THICKNESS SHALL INCREASE AT MIDSPAN OF BEAMS AND GIRDERS AS REQUIRED TO ACHIEVE THE TOP OF SLAB ELEVATION.

L. HEADED STUDS & DEFORMED BAR ANCHORS:

1. SHEAR CONNECTORS USED IN COMPOSITE CONSTRUCTION SHALL BE 3/4" DIAMETER AND EXTEND A MINIMUM OF 1 1/2" ABOVE THE TOP OF THE STEEL DECK WITH A MINIMUM CLEAR COVER OF ½" FROM THE TOP OF THE SLAB, UNO. HEADED STUDS SHALL BE AUTOMATICALLY END WELDED IN THE FIELD THROUGH THE METAL DECK TO STEEL BEAMS ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
2. SHEAR CONNECTORS USED IN COMPOSITE CONSTRUCTION SHALL BE PLACED EVENLY BETWEEN BEAM END SUPPORTS, UNLESS NOTED OTHERWISE ON THESE DRAWINGS.
3. ALL STEEL BEAMS AND GIRDERS THAT SUPPORT COMPOSITE CONCRETE FLOOR SLABS SHALL HAVE STUD SHEAR CONNECTORS AT SPACED AT 24" O.C. MAXIMUM.
4. IF THERE ARE MORE STUDS THAN DECK RIBS, PLACE THE ADDITIONAL STUDS TWO PER RIB, STARTING AT THE TWO ENDS OF THE BEAM.
5. IF THERE ARE MORE DECK RIBS THAN STUDS, PLACE ONE STUD IN EVERY OTHER RIB AND PLACE REMAINING STUDS IN EMPTY RIBS, STARTING AT THE TWO ENDS OF THE BEAM.
6. WHERE ONE STUD IS PLACED IN A RIB, PLACE ON BEAM CENTER LINE.
7. WHERE TWO STUDS ARE PLACED IN A RIB, PLACE 3" APART, CENTER-TO-CENTER OF STUD, 1-1/2" EITHER SIDE OF BEAM CENTER LINE.
8. REMOVE CERAMIC FERRULES FROM STUD AND DECK BEFORE PLACING CONCRETE.
9. STUD WELDING MAY REPLACE STEEL DECK WELDING WHERE STUDS ARE LOCATED LESS THAN OR EQUAL TO 16" ON CENTER. ADEQUATELY FASTEN DECK TO SUPPORTING STRUCTURE AS REQUIRED FOR CONSTRUCTION CONDITIONS UNTIL STUDS ARE WELDED TO THE STEEL BEAMS AND GIRDERS.
10. STUDS AND DEFORMED BAR ANCHORS SHALL BE WELDED USING A WELDING GUN IN ACCORDANCE WITH CHAPTER 7 OF AWS D1.1. STUDS AND DEFORMED BAR ANCHORS SHALL NOT BE FILLET WELDED.

M. STEEL ROOF AND FLOOR DECKING:

1. THE DESIGN, FABRICATION, AND ERECTION OF STEEL DECKING SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF THE LATEST SDI STANDARDS AND SPECIFICATIONS:
   a. STEEL ROOF DECK: ANSI/SDI RD-2017, STANDARD FOR STEEL ROOF DECK.
   b. NON-COMPOSITE FLOOR DECK: ANSI/SDI NC-2017, STANDARD FOR NON-COMPOSITE STEEL FLOOR DECK.
   c. COMPOSITE FLOOR DECK: ANSI/SDI C-2017, STANDARD FOR COMPOSITE STEEL FLOOR DECK-SLAB.
2. STEEL DECKING FOR THE CONSTRUCTION OF ROOF AND FLOOR DIAPHRAGMS IS BASED ON THE SDI DIAPHRAGM DESIGN MANUAL (FOURTH EDITION) AND AISI S310, NORTH AMERICAN STANDARD FOR THE DESIGN OF PROFILED STEEL DIAPHRAGM PANELS.
3. STEEL DECK SHALL BE ATTACHED TO SUPPORTING STEEL AS INDICATED ON:
   a. FLOOR DECK: DETAIL 1/S-401 FOR COMPOSITE FLOOR AND DETAIL 1/S-402 FOR INFILL FLOOR.
   b. ROOF DECK: DETAIL 1/S-501.
4. ROOF DECK AND FORM DECK ENDS SHALL BE BUTTED OR LAPPED OVER SUPPORTS. COMPOSITE FLOOR DECK ENDS SHALL BE BUTTED OVER SUPPORTS.
5. DO NOT SUPPORT ROOFTOP EQUIPMENT OR EQUIPMENT CURBS DIRECTLY FROM ROOF DECK. ATTACH CURBS DIRECTLY TO STRUCTURAL STEEL SUPPORTS OR PROVIDE TREATED BLOCKING IN FLUTES OF DECK BETWEEN STRUCTURAL STEEL SUPPORTS AND CURBS.
6. PROVIDE SUPPORT FOR METAL DECK AROUND COLUMNS, SCREED PLATES AROUND OPENINGS, AND EDGES OF SLABS.
7. SUSPENDED CEILINGS, LIGHT FIXTURES, EQUIPMENT, DUCTS, OR OTHER UTILITIES SHALL NOT BE SUPPORTED BY THE STEEL ROOF DECK.

N. COLD-FORMED STEEL FRAMING:

1. THE DESIGN OF THE COLD FORMED STEEL FRAMING SHALL BE BASED ON AISI S100-16 w/S2-20, NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.
2. COLD-FORMED STEEL STUDS SHALL CONFORM TO THE REQUIREMENTS ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. EXTERIOR COLD-FORMED STEEL WALL STUDS SHALL A MINIMUM OF 18 GAUGE. LIMIT DEFLECTION OF STUDS SUPPORTING MASONRY TO L/600 DUE TO WIND LOADS; LIMIT DEFLECTION OF STUDS SUPPORTING ALL OTHER MATERIALS TO L/240.
3. EXTERIOR NON LOAD-BEARING STEEL STUDS SHALL BE CONNECTED TO THE BUILDING FRAME WITH RIGID CLIPS OR VERTICAL SLIDE CLIPS AS SHOWN ON THE STRUCTURAL DETAILS.
4. SEE DETAIL 1/S-601 FOR BRICK VENEER ANCHORAGE.
5. ALL MATERIAL SHALL BE COLOR CODED TO INDICATE THE GAUGE OF THE MATERIAL.

O. POST-INSTALLED ANCHORS IN CONCRETE OR MASONRY:

1. POST-INSTALLED ANCHORS (MECHANICAL OR ADHESIVE) SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER–OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS OR DOWELS. POST-INSTALLED ANCHORS SHALL BE BUILDING CODE COMPLIANT, INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND INSPECTED PER THE APPLICABLE ICC-ES OR IAPMO UES EVALUATION REPORT. SEE SPECIFICATIONS SECTION(S) 03 30 00 FOR ADDITIONAL INFORMATION.

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Title GENERAL NOTES CONTINUED

Sheet No. **S-002**

Project Name
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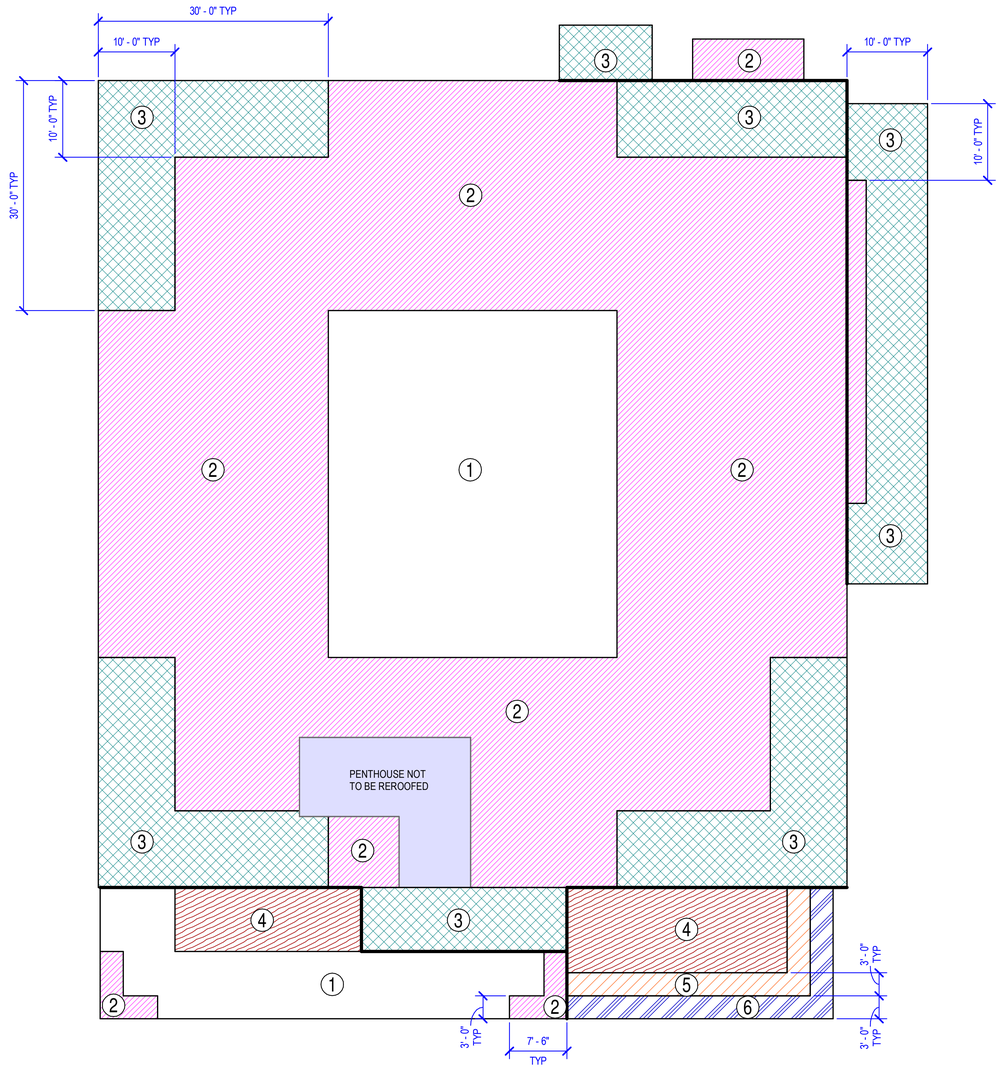
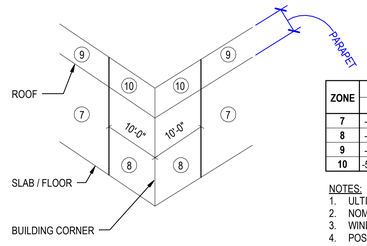
3/28/2025 8:35:17 AM



1 COMPONENTS AND CLADDING WIND PRESSURES PLAN
1/8" = 1'-0"



ZONE	TRIBUTARY AREA (SQ. FT.)		
	10	50	100
7	-31/+28 PSF	-28/+25 PSF	-27/+24 PSF
8	-38/+28 PSF	-32/+25 PSF	-30/+24 PSF
9	-50/+84 PSF	-44/+72 PSF	-41/+66 PSF
10	-57/+108 PSF	-48/+86 PSF	-44/+76 PSF

COMPONENTS AND CLADDING WALL WIND PRESSURES

GROSS WIND UPLIFT
(STRENGTH DESIGN)

ZONE	TRIBUTARY AREA (SQ. FT.)		
	10	50	100
1	-51/+16 PSF	-43/+16 PSF	-40/+16 PSF
2	-69/+16 PSF	-55/+16 PSF	-51/+16 PSF
3	-89/+16 PSF	-61/+16 PSF	-61/+16 PSF
4	-38/+16 PSF	-33/+16 PSF	-33/+16 PSF
5	-47/+16 PSF	-37/+16 PSF	-33/+16 PSF
6	-65/+16 PSF	-48/+16 PSF	-40/+16 PSF

COMPONENTS AND CLADDING ROOF WIND PRESSURES

NOTES:
1. ULTIMATE WIND SPEED: 105 MPH
2. NOMINAL WIND SPEED: 81 MPH
3. WIND PRESSURES ARE BASED ON ASCE 7-16 STRENGTH DESIGN (ULTIMATE).
4. POSITIVE / NEGATIVE VALUES INDICATE FORCES ARE ACTING TOWARDS / AWAY FROM ELEMENT, RESPECTIVELY.
5. COMPONENTS SUBJECTED TO PARAPET WIND FORCE ON BOTH SIDES (e.g. WALL PANELS) SHALL BE DESIGNED FOR CUMULATIVE FORCES.
6. SERVICE LEVEL LOADS MAY BE CALCULATED BY MULTIPLYING THE NUMBERS ABOVE BY 0.6.
7. PROVIDE POSITIVE ADJACENT WALL LOADS TO SOFFITS.

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Title COMPONENTS AND CLADDING WIND PLAN

Sheet No. **S-003**

Project Name
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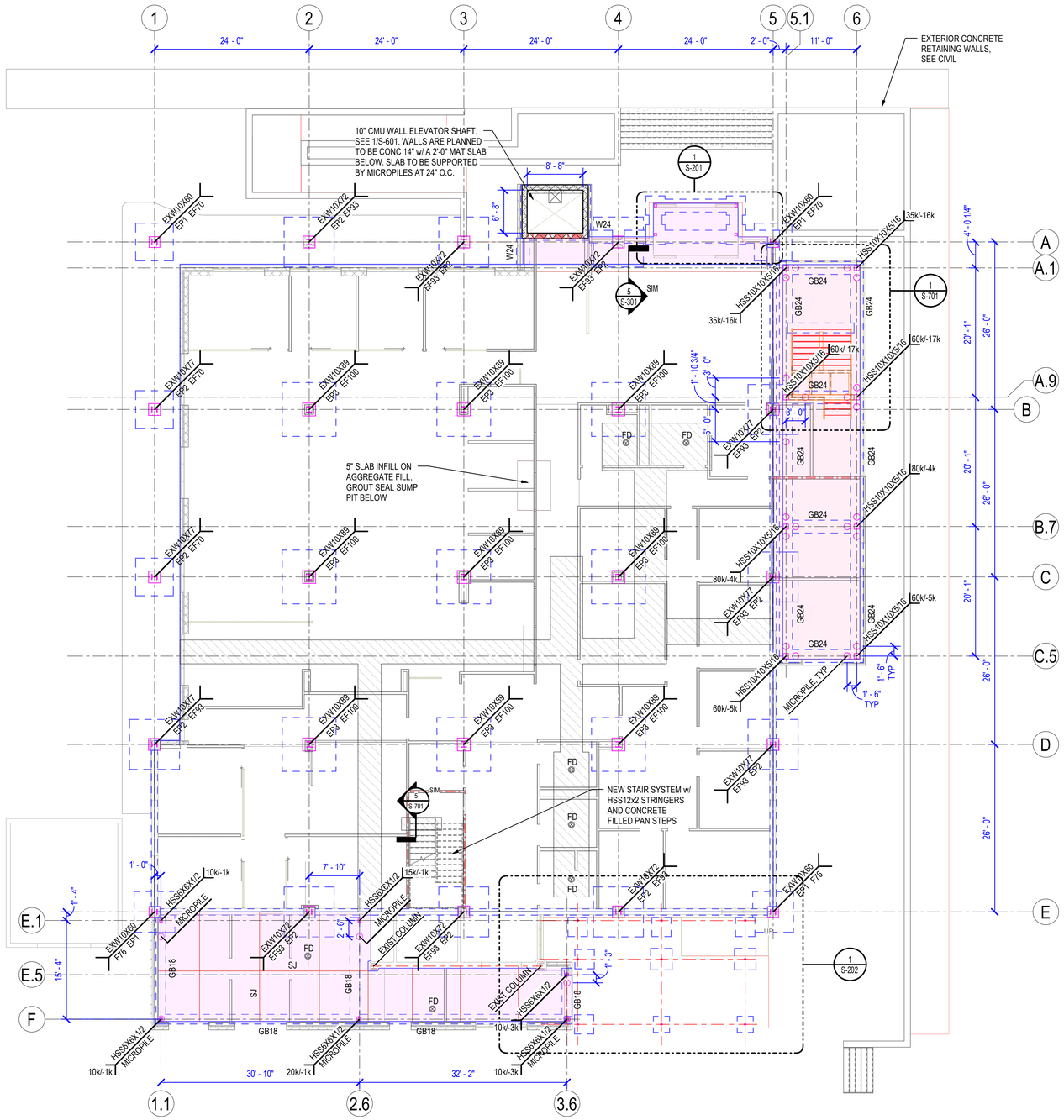
3/28/2025 8:34:36 AM



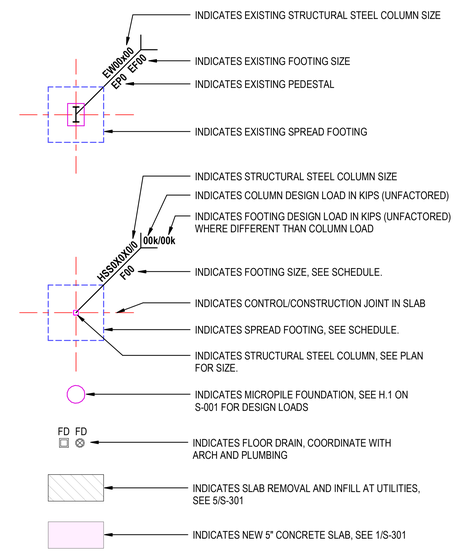
1 FOUNDATION AND SLAB PLAN

1/8" = 1'-0"

FINISHED FLOOR ELEV = 0'-0"

NORTH

FOUNDATION AND SLAB LEGEND



NOTES:

1. FIELD VERIFY EXISTING CONNECTIONS, MEMBERS, LOCATIONS, AND COORD w/ OTHER DISCIPLINES.
2. FOR SLAB DRAINS AND PENETRATION REINF, SEE 2/S-301.
3. FOR SLAB INFILL AT UTILITIES AND NEW SLAB OUTSIDE BUILDING, SEE 5/S-301. COORD UTILITY SLAB REMOVAL EXTENT w/ OTHER DISCIPLINES.
4. FOR CONCRETE WALL CONTROL JOINT, SEE 6/S-301.
5. FOR CONCRETE WALL CORNER DETAIL, SEE 7/S-301.
6. FOR TRENCH EXCAVATION AT INTERIOR AND EXTERIOR FOUNDATIONS, SEE 8/S-301.
7. FOR TYP GRADE BEAM ELEVATION, SEE 2/S-302.
8. FOR TYP GRADE BEAM CONSTRUCTION JOINT, SEE 3/S-302.
9. FOR TYP GRADE BEAM INTERSECTION REINFORCEMENT DETAIL, SEE 4/S-302.

FOOTING SCHEDULE

MARK	SIZE	REINFORCING (TYP. U.N.O.)
W24	2'-0"x1'-6" x CONT	3 - #4 BOT w/ #4 AT 16" O.C. HORIZ BOT
F36	3'-0"x3'-0" x 1'-6"	4 - #4 EA WAY, T&B
F40	3'-4"x3'-4" x 1'-6"	5 - #4 EA WAY, T&B
GB18	1'-6"x1'-6" x CONT	SEE 1/S-302
GB24	2'-0"x2'-0" x CONT	SEE 1/S-302

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Title

FOUNDATION AND SLAB PLAN

Sheet No.

S-101

Project Name
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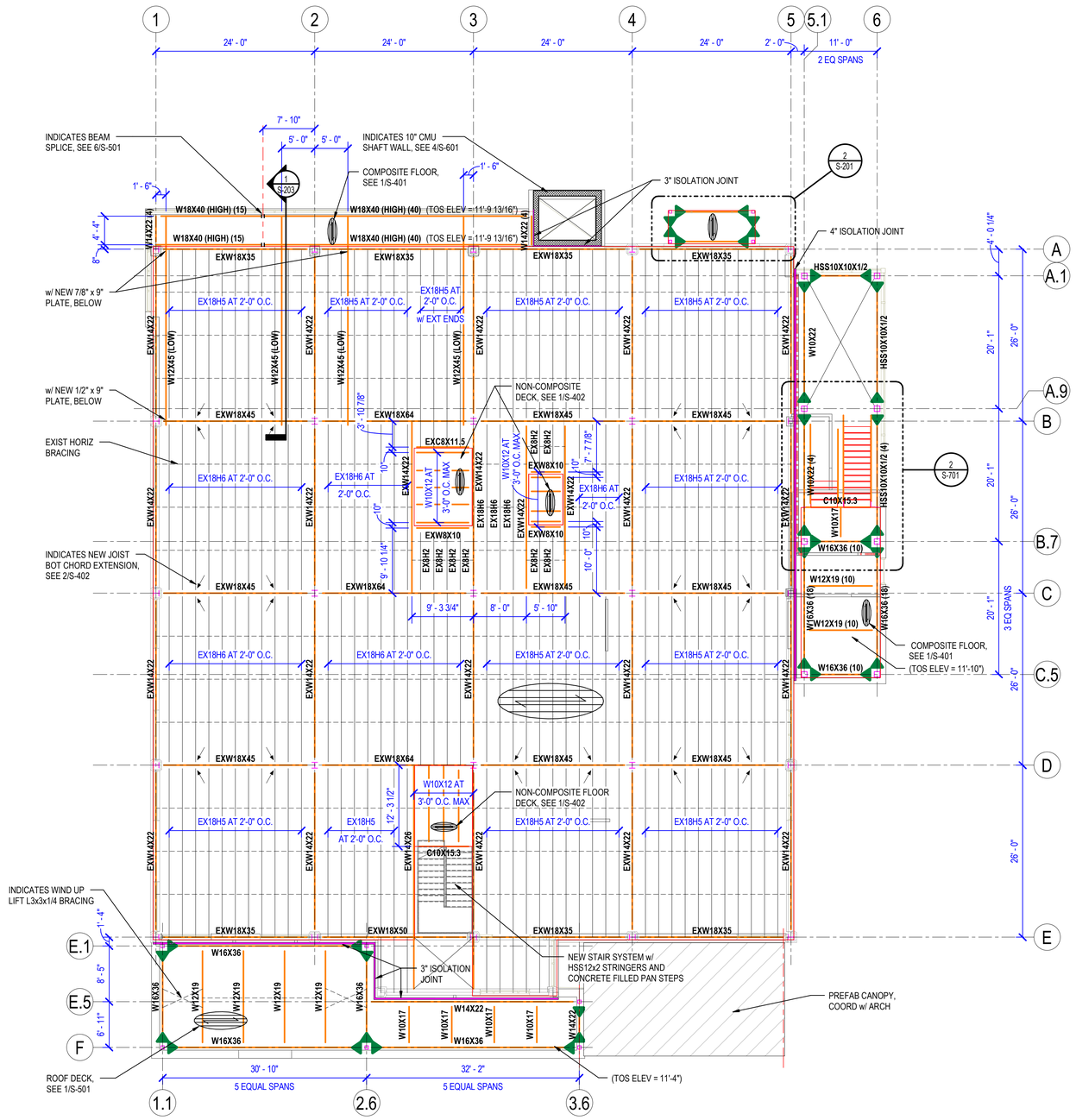
3/28/2025 8:34:42 AM



1 SECOND FLOOR AND LOW ROOF FRAMING PLAN

1/8" = 1'-0"

DECK BEARING ELEV = 12'-1"

NORTH

FRAMING LEGEND

- INDICATES EXISTING WIDE FLANGE BEAM SIZE (A992)
- INDICATES WIDE FLANGE BEAM SIZE (A992)
- INDICATES NUMBER OF HEADED STUDS, SEE 1/S-401 (EXW00X00 (00))
- INDICATES SPAN DIRECTION OF METAL DECK
- INDICATES BEAM SPLICE LOCATION, SEE 6/S-501
- INDICATES OPENINGS
- INDICATES FIELD WELDED BEAM MOMENT CONNECTION, SEE 3/S-402

NOTES:

1. EXISTING FRAMING SIZES SHOWN ARE BASED ON EXISTING 1972 DRAWINGS. FIELD VERIFY AND NOTIFY STRUCTURAL ENGINEER IF DIFFERENT THAN INDICATED. FIELD VERIFY EXISTING CONNECTIONS, MEMBERS, LOCATIONS, AND COORD w/ OTHER DISCIPLINES.
2. FOR COMPOSITE SLAB JOINT AND SLABS AT INFILLS, SEE 5/S-401.
3. FOR ADD'L REINF AT COLUMNS, SEE 6/S-401.
4. FOR FLOOR OPENINGS, SEE 7/S-401. AT NEW OPENINGS FRAMING AT ROOF AND EXISTING FLOORS, SEE 7/S-501.
5. FOR JOIST REINF AT CONCENTRATE FLOOR OR HANGING LOADS, SEE 2/S-501.
6. FOR PIPE SUPPORT AT PERPENDICULAR TO JOIST AND PARALLEL TO JOIST, SEE 3/S-501 AND 4/S-501 RESPECTIVELY.
7. FOR STONE ANCHORAGE TO METAL STUDS AND TO CMU, SEE 1 & 2/S-601 RESPECTIVELY.
8. FOR INTERIOR STUD WALL TO STRUCTURE, SEE 3/S-601.
9. FOR CMU CORNER DETAIL AND BOND BEAM CORNER REINF, SEE 5 & 6/S-601 RESPECTIVELY.
10. FOR CMU WALL OPENING REINF AND LINTEL SCHEDULE, SEE 7 & 8/S-601 RESPECTIVELY.
11. COORD PREFAB CANOPY FRAMING w/ ARCH AND MANUF.

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Title

SECOND FLOOR FRAMING PLAN

Sheet No.

S-102

Project Name
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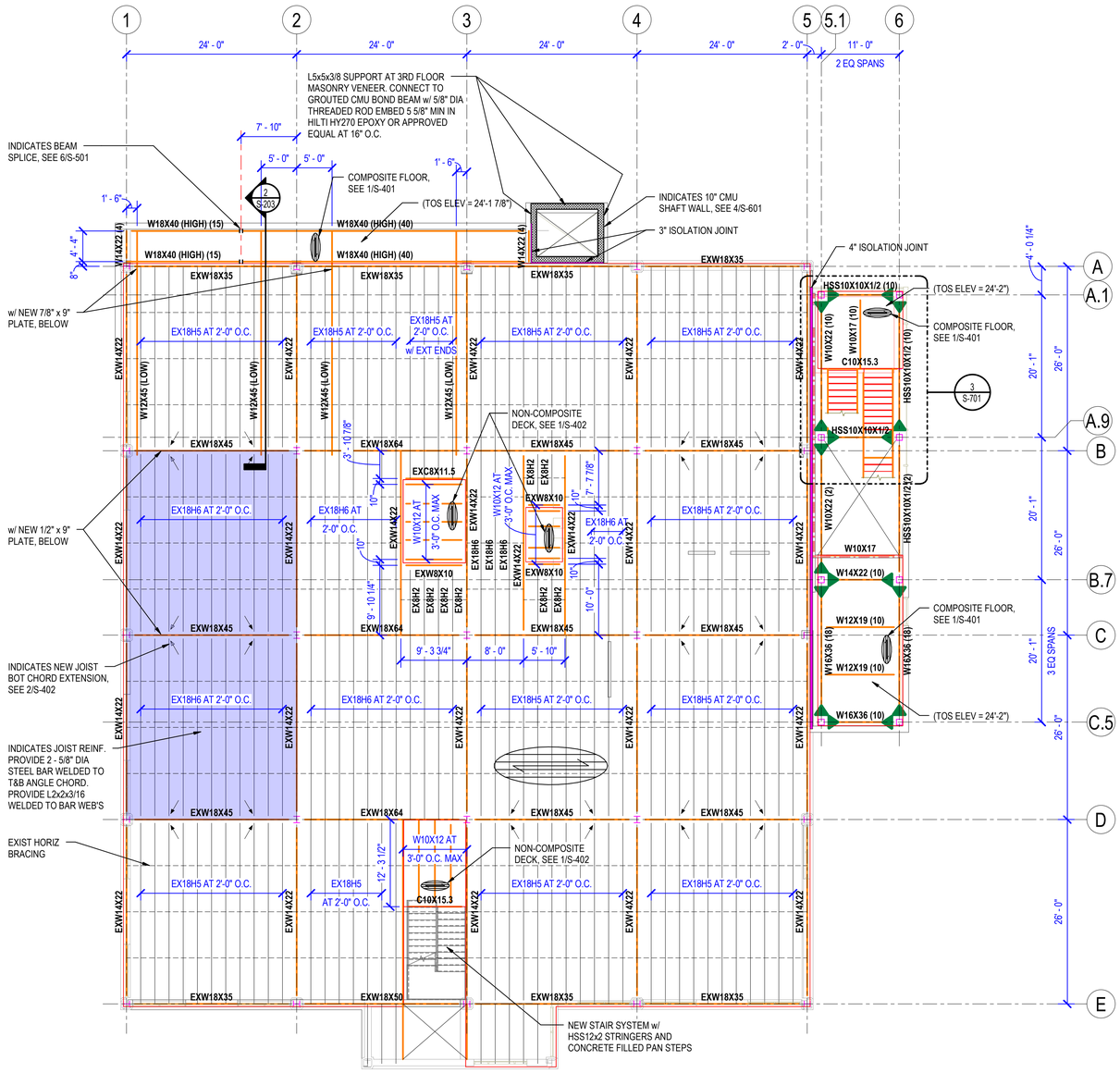
3/28/2025 8:34:46 AM



NOTE:
FOR ADDITIONAL INFORMATION, SEE 1/S-102.

1 THIRD FLOOR FRAMING PLAN
1/8" = 1'-0"
DECK BEARING ELEV = 24'-3"

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Job No. CENTRA24.00

Date March 28, 2025

Title THIRD FLOOR FRAMING PLAN

Sheet No. **S-103**

Project Name
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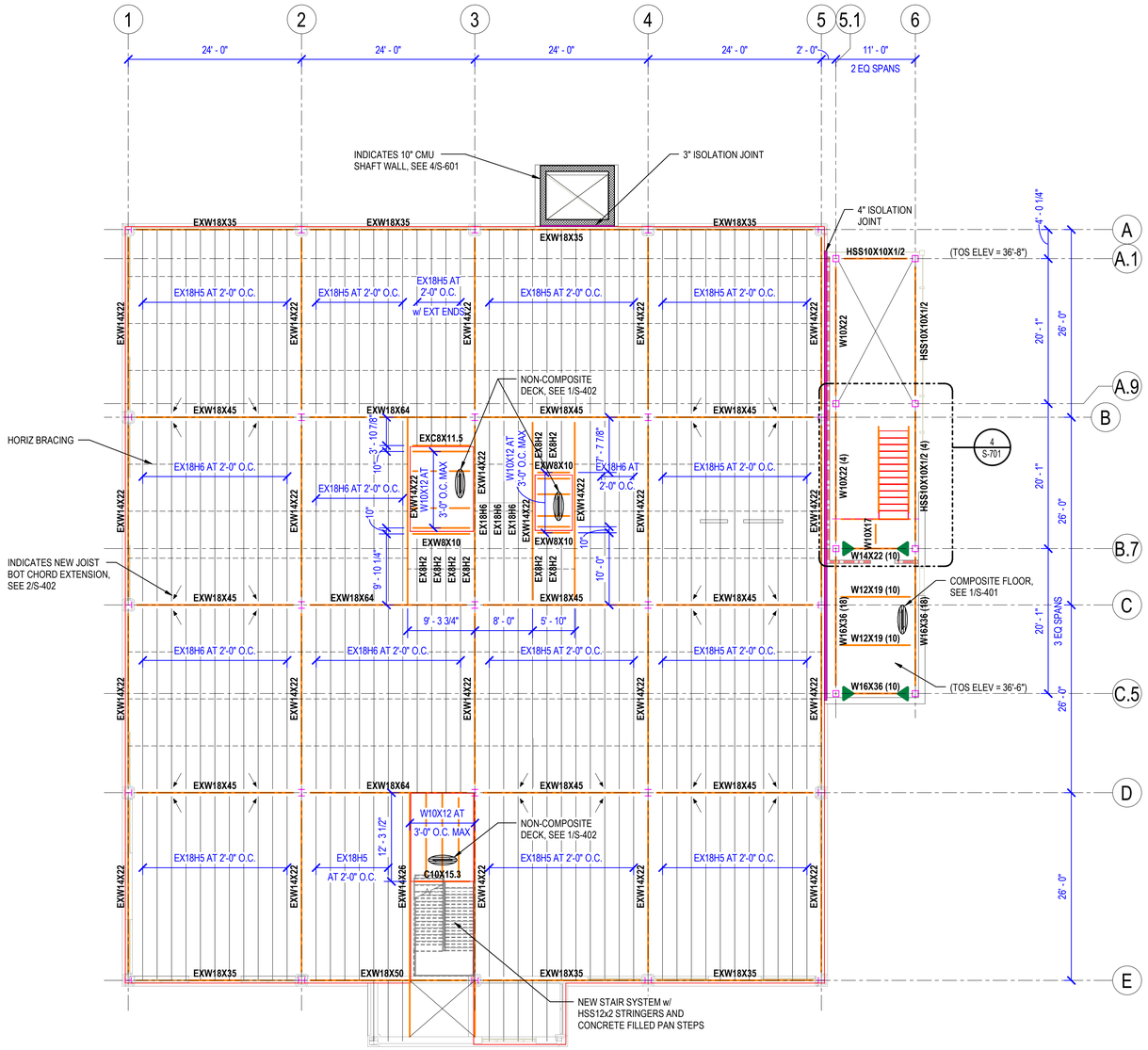

NOTE:
FOR ADDITIONAL INFORMATION, SEE 1/S-102.

1 FOURTH FLOOR FRAMING PLAN
1/8" = 1'-0"

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Job No. CENTRA24.00

Date March 28, 2025

Title FOURTH FLOOR FRAMING PLAN

Sheet No. **S-104**

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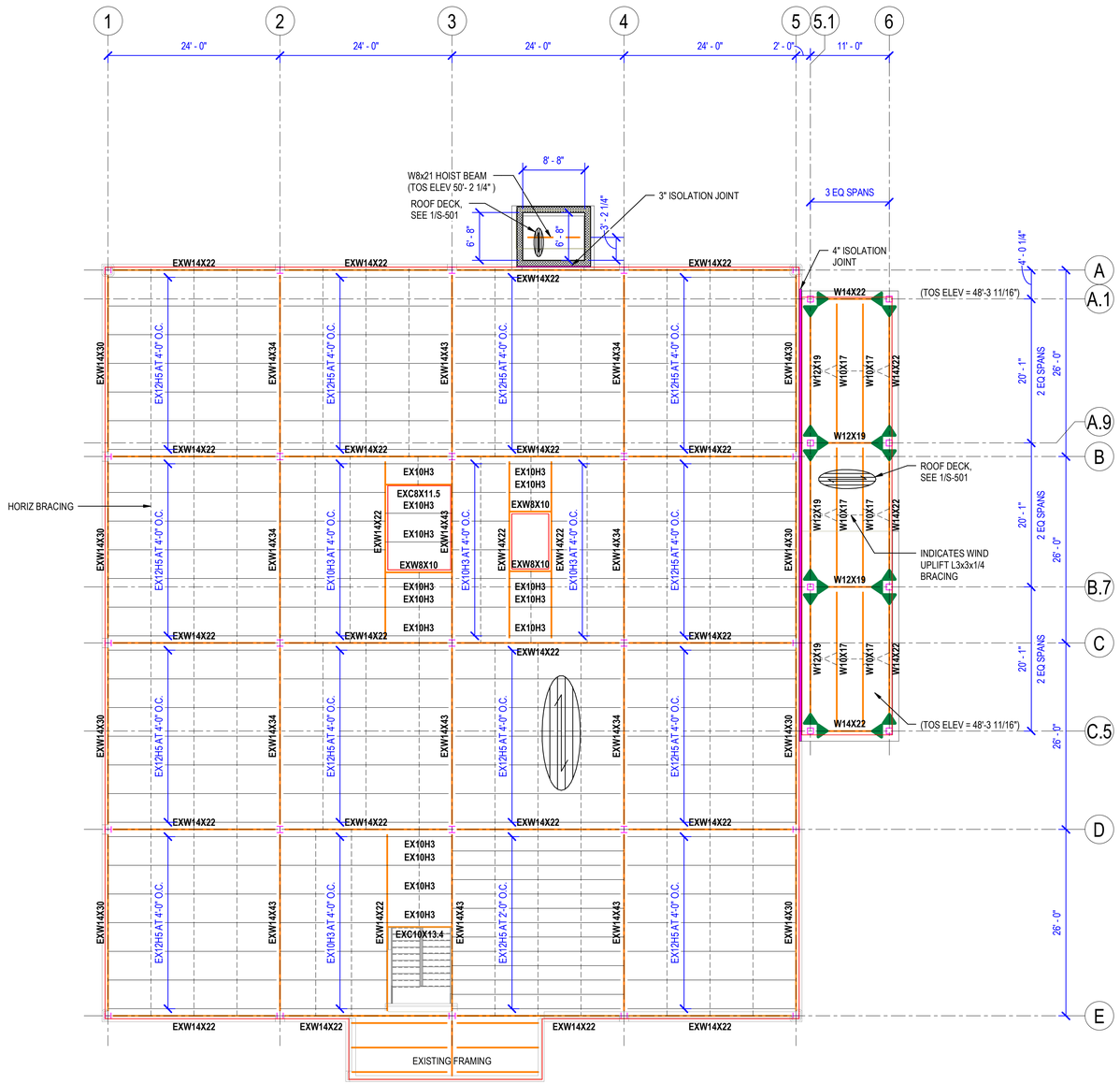

NOTE:
FOR ADDITIONAL INFORMATION, SEE 1/S-102.

1 ROOF FRAMING PLAN
1/8" = 1'-0"
DECK BEARING ELEV = 49'-1"

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DESIGN DEVELOPMENT

No	Issue	Date
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Job No. CENTRA24.00

Date March 28, 2025

Title ROOF FRAMING PLAN

Sheet No. **S-105**

Project Name
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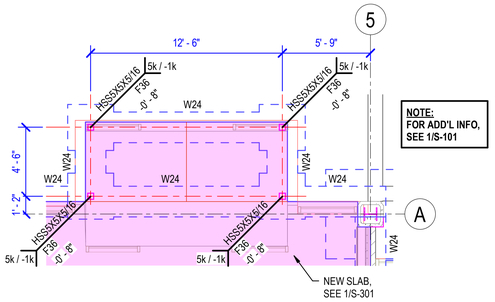
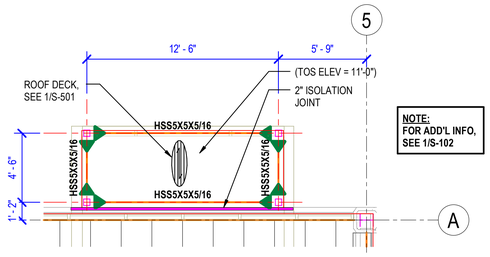


NOTE:
FOR ADD'L INFO,
SEE 1/S-101

1 VESTIBULE FOUNDATION PLAN

1/4" = 1'-0"



NOTE:
FOR ADD'L INFO,
SEE 1/S-102

2 VESTIBULE FRAMING PLAN

1/4" = 1'-0"

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No.	Issue	Date

Job No. CENTRA24.00

Date March 28, 2025

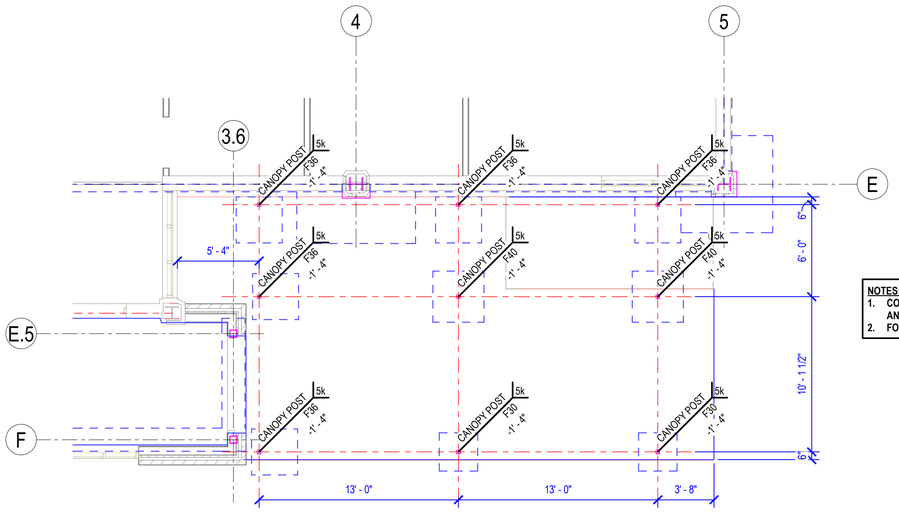
Title

VESTIBULE FOUNDATION AND FRAMING PLAN

Sheet No.

S-201

Project Name
Autodesk Docs://Central Arkansas Water JTH Building Renovations/2024-199-Stru.rvt
3/28/2025 8:34:58 AM



NOTES:
1. COORD PREFAB CANOPY LAYOUT AND ANCHORAGE w/ ARCH AND MANUF.
2. FOR ADD'L INFO, SEE 1/S-101.

1 ENLARGED PLAN
1/4" = 1'-0"

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No.	Issue	Date

Job No. CENTRA24.00

Date March 28, 2025

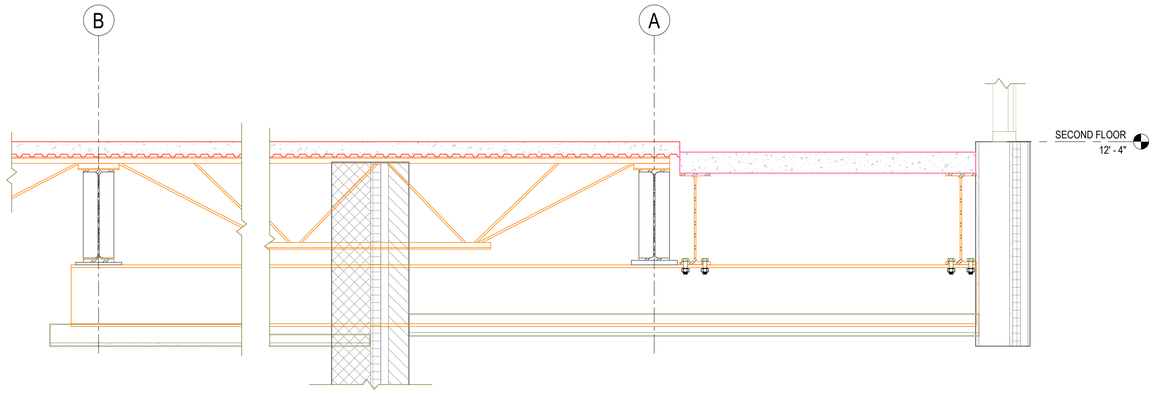
Title

ENLARGED PLAN

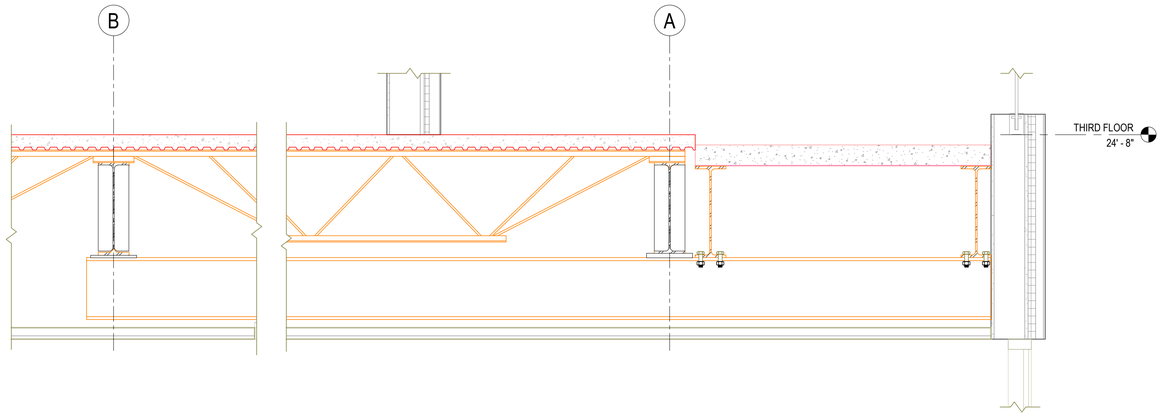
Sheet No.

S-202

Project Name
Autodesk Docs://Central Arkansas Water JTH Building Renovations/2024-195 Stru.rvt
3/28/2025 8:34:59 AM



1 BALCONY DETAIL AT 2ND FLOOR
1" = 1'-0"



2 BALCONY DETAIL AT 3RD FLOOR
1" = 1'-0"

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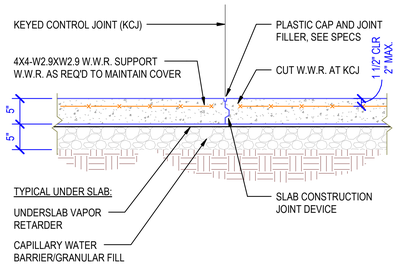
Job No. CENTRA24.00

Date March 28, 2025

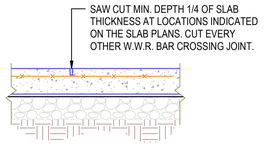
Title BALCONY DETAILS

Sheet No. **S-203**

Project Name
Autodesk Docs://Central Arkansas Water-JTH Building Renovations/2024-196-Stru.rvt
3/28/2025 8:35:27 AM



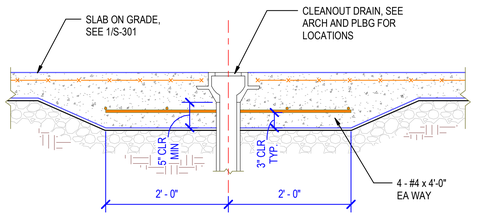
A KCJ (KEYED CONSTRUCTION JOINT)



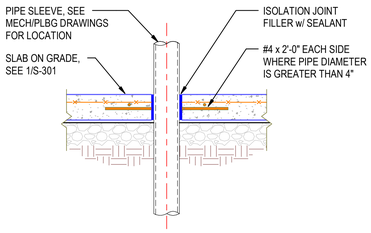
B SAWN JOINT (SJ)

1 TYP SLAB ON GRADE REINFORCING AND JOINT DETAILS

NOT TO SCALE



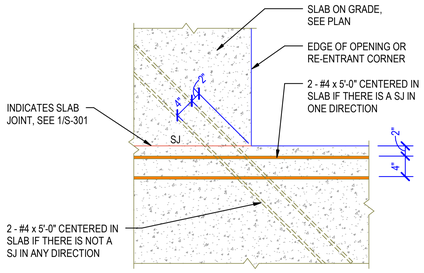
A FLOOR DRAIN AT SLOPED SLAB



B MECH/PLBG PIPE THROUGH SLAB

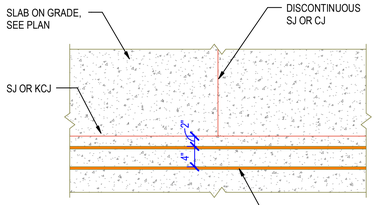
2 TYP SLAB ON GRADE PENETRATION DETAILS

NOT TO SCALE



3 TYP SLAB OPENINGS AND REENTRANT CORNERS

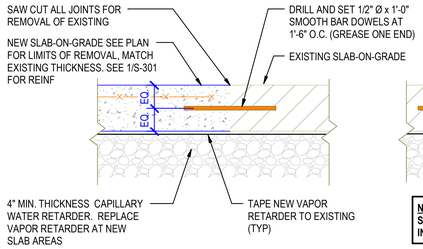
NOT TO SCALE



NOTE:
APPLIES TO ALL DISCONTINUOUS SLAB JOINTS, WHETHER SHOWN ON PLANS OR NOT

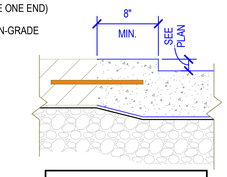
4 TYP DISCONTINUOUS SLAB JOINT DETAIL

NOT TO SCALE



A SAME DEPTH

NOTE:
SAW CUT CONTROL JOINT PATTERN AT ALL INFILL AREAS WHERE AREA OF INFILL EXCEEDS 200 SQ. FT. OR WHERE ANY SIDE EXCEEDS 12'-0" (EXCEPT INFILL FOR TRENCHES).

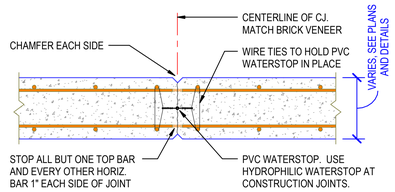


NOTE:
SEE DETAIL "A" FOR INFORMATION NOT SHOWN.

B DEEPER OR w/ DEPRESSION

5 TYP SLAB INFILL DETAIL

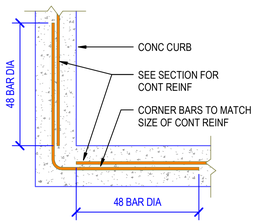
NOT TO SCALE



NOTES:
1. SEE FOUNDATION PLANS FOR LOCATIONS OF CONTROL JOINTS IN CONCRETE WALLS.
2. IF NOT SHOWN, CONTROL JOINTS SHALL BE PROVIDED AT 20'-0" O.C. MAX AND A MINIMUM OF 2'-0" FROM OPENINGS AND BEAM BEARING LOCATIONS. AT EXPOSED CONCRETE, COORD. LOCATION OF JOINTS w/ ARCH.
3. PROVIDE PVC WATERSTOP AT ALL CONTROL JOINTS IN CONCRETE WALLS. HYDROPHILIC WATERSTOP SHALL BE USED WHERE JOINT IS A CONSTRUCTION JOINT.
4. STEEL EMBEDS SHALL NOT CROSS CONTROL JOINTS. PROVIDE EMBED EA. SIDE OF JOINT AS REQ'D. BREAK CONTINUOUS EMBEDS AT JOINT.
5. 2-LAYERS OF REINF. SHOWN; SOME WALLS HAVE ONLY ONE LAYER.

6 TYP CONTROL JOINT IN CONCRETE WALLS

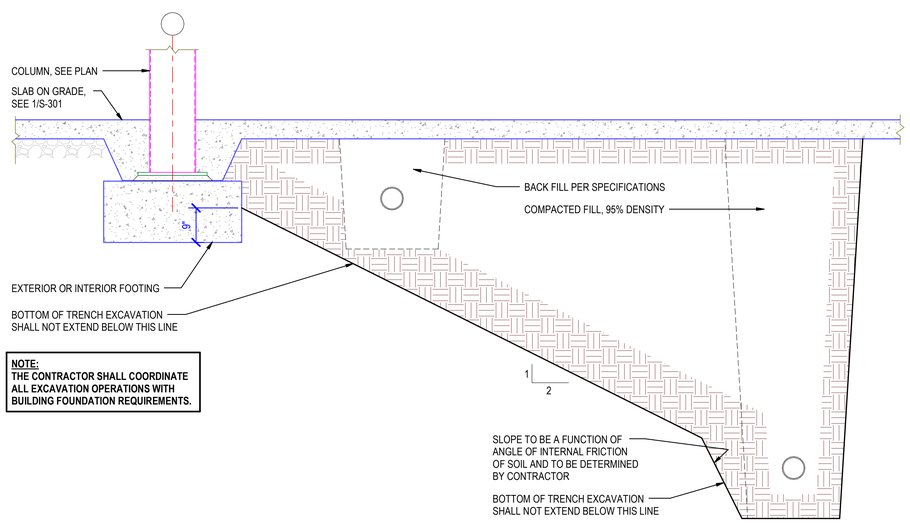
NOT TO SCALE



WALL CORNER DETAIL

7 TYP CONC WALL CORNER DETAIL

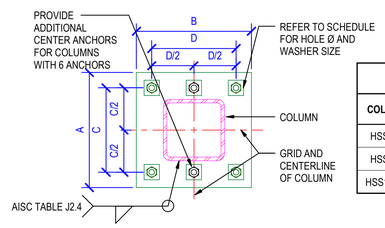
1" = 1'-0"



NOTE:
THE CONTRACTOR SHALL COORDINATE ALL EXCAVATION OPERATIONS WITH BUILDING FOUNDATION REQUIREMENTS.

8 TRENCH EXCAVATION AT VICINITY OF INTERIOR AND EXTERIOR FOOTINGS

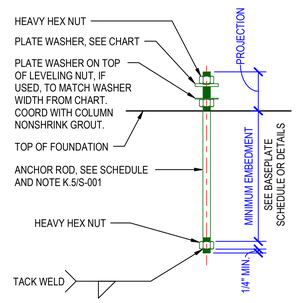
NOT TO SCALE



TYPICAL COLUMN BASEPLATE

TYPICAL BASE PLATE SCHEDULE

COL SIZE	PLATE THICKNESS	A	B	C	D	ANCHOR RODS AND Ø	MIN. EMBEDMENT	MIN. EDGE DIST
HSS5X5	3/4"	1'-0"	1'-0"	8"	8"	4-3/4"	1'-0"	4.5"
HSS6X6	3/4"	1'-1"	1'-1"	9"	9"	4-3/4"	1'-0"	4.5"
HSS10X10	1 1/4"	1'-6"	1'-5"	1'-1 1/2"	1'-0"	6-1"	1'-0"	6"



TYPICAL ANCHOR ROD DETAIL

ANCHOR ROD WASHERS AND HOLES SIZE

ANCHOR ROD Ø	MAX HOLE Ø	MIN. WASHER SIZE	MIN. WASHER THICKNESS
3/4	1 5/16"	2"	1/4"
1	1 7/8"	3"	3/8"

NOTES:
1. THIS CHART IS TAKEN FROM AISC TABLE 14-1. LATEST VERSION OF AISC TABLE 14-1 TAKES PRECEDENCE.
2. CIRCULAR OR SQUARE WASHERS ARE ACCEPTABLE.
3. ADEQUATE CLEARANCE MUST BE PROVIDED FOR THE WASHER SIZE SELECTED, COORD WITH BASEPLATE WELDS.
4. ALL ANCHORS ARE TO MAINTAIN THE ABOVE MINIMUM EDGE DISTANCE TO THE CENTER OF THE ANCHORS TO CONCRETE EDGES.

9 BASEPLATE SCHEDULE AND DETAILS (HSS)

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No.	Issue	Date

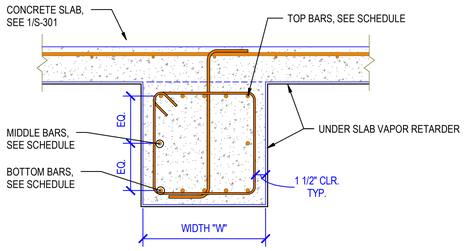
Job No. CENTRA24.00

Date March 28, 2025

Title FOUNDATION SECTIONS AND DETAILS

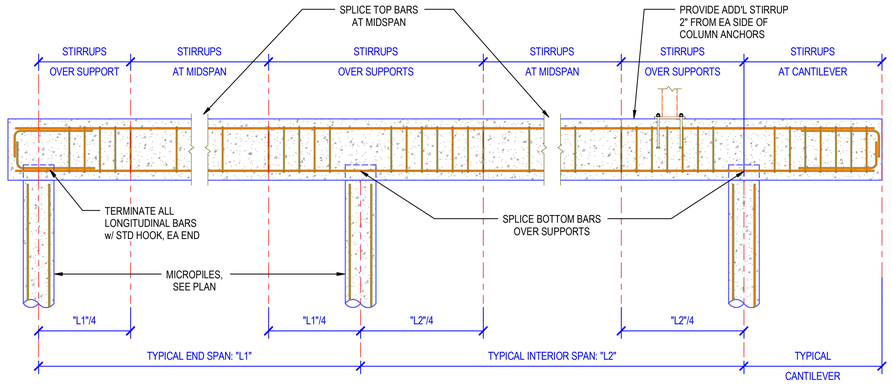
Sheet No. **S-301**

Project Name
Autodesk Docs://Central Arkansas Water JTH Building Renovations/2024-196-Stru.rvt
3/28/2025 8:35:02 AM

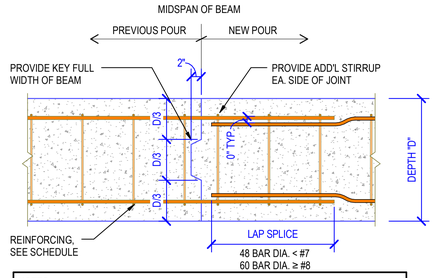


GRADE BEAM SCHEDULE					
MARK	SIZE "D" x "W"	BOTTOM BARS	TOP/MID BARS	STIRRUPS	
				AT SUPPORT	AT MIDSPAN
GB18	1'-6" x 1'-6" x CONT	3 - #6	3 - #6	#3 AT 6" O.C.	#3 AT 6" O.C.
GB24	2'-0" x 2'-0" x CONT	4 - #8	4 - #8 / 2 - #8	#4 AT 9" O.C.	#4 AT 9" O.C.

1 TYPICAL GRADE BEAM DETAIL AND SCHEDULE
NOT TO SCALE

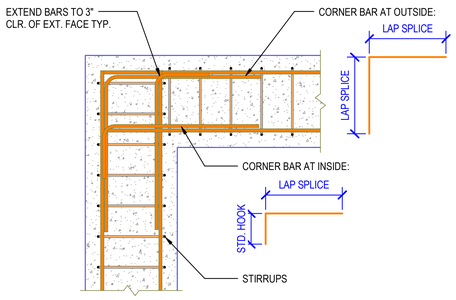


2 TYPICAL GRADE BEAM ELEVATION
NOT TO SCALE

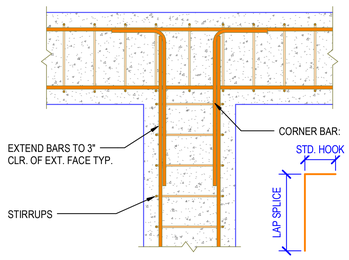


NOTES:
1. GRADE BEAMS CONSTRUCTION JOINTS ARE PERMITTED ONLY WHERE INDICATED ON PLANS OR APPROVED BY THE ENGINEER.
2. CONTRACTOR SHALL SUBMIT JOINT LAYOUT FOR REVIEW AND APPROVAL PRIOR TO CONCRETE REINFORCING SUBMITTAL.
3. ALL REINFORCING SHALL BE CONTINUOUS THROUGH CONSTRUCTION JOINT.
4. ROUGHEN CONTACT SURFACE BEFORE NEW POUR.

3 TYPICAL GRADE BEAM CONSTRUCTION JOINT DETAIL
NOT TO SCALE



A CORNER INTERSECTION



B T INTERSECTION

NOTES:
1. PLACE CORNER BAR REINFORCING IN EACH FACE, LAP SPLICE w/ HORIZ. REINF.
2. PLACE HORIZ. BARS OUTSIDE VERT. BARS, U.N.O.

4 TYPICAL GRADE BEAM INTERSECTION REINFORCEMENT DETAIL
NOT TO SCALE

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No.	Issue	Date

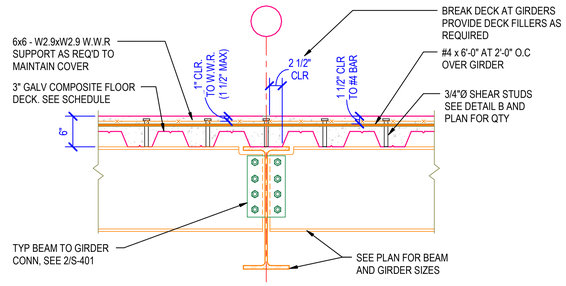
Job No. CENTRA24.00

Date March 28, 2025

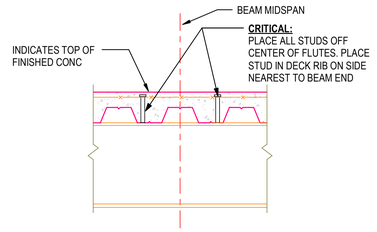
Title FOUNDATION SECTIONS AND DETAILS

Sheet No. **S-302**

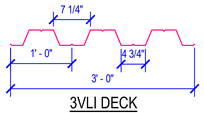
Project Name
Autodesk Docs://Central Arkansas Water/JTH Building Renovations/2024-199-Stru.rvt
3/28/2025 8:35:03 AM



A INTERIOR GIRDERS AND BEAMS



B STUD PLACEMENT DETAIL



3VLI DECK

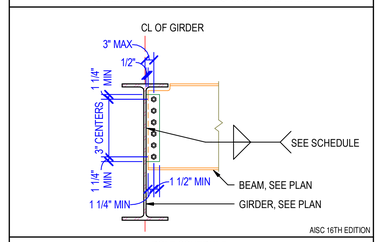
C DECK SECTION PROPERTIES

DESIGN PROPERTIES			SECTION PROPERTIES		
DEPTH	THICKNESS (GAGE)	DIAPHRAGM SHEAR (lbs/ft)	WEIGHT (lbs/ft^2)	Ip / In (in^4 /ft)	Sp / Sn (in^3 /ft)
3"	0.0358" (20)	650 AT 6'-0"	2.07	0.907 / 0.909	0.512 / 0.538

NOTES:
1. THE MINIMUM YIELD STRENGTH, Fy, SHALL BE 40 KSI.
2. DECK SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A653, G90.
3. SECTION PROPERTIES SHOWN MAY VARY BY 10% MAX.
4. SECURE DECK TO SUPPORTING STRUCTURE AT 1'-6" O.C. MAX WITH PUDDLE WELDS, POWDER ACTUATED FASTENERS, OR HEADED STUDS.
5. WHERE TWO PANELS BUTT, FASTEN EACH END OF DECK WITH SEPARATE FASTENERS.
6. BEAMS AND GIRDERS ARE NOT REQUIRED TO BE SHORED. DECKING DOES NOT REQUIRE SHORING UNLESS DECK SPAN EXCEED SDI ALLOWABLE CONSTRUCTION SPANS.

1 TYP COMPOSITE FLOOR CONSTRUCTION
NOT TO SCALE

SINGLE-PLATE CONNECTION DETAIL



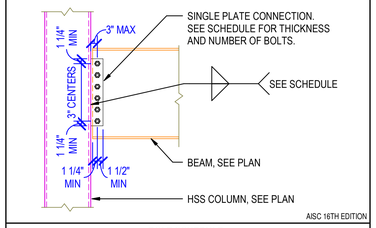
BOLT SCHEDULE

BEAM SIZE	ROWS OF 3/4" Ø H.S. BOLTS	MIN. PLATE THICKNESS	MIN. FILLET WELD SIZE	CAPACITY
W18	5	5/16"	1/4"	93k
W16	4	1/4"	3/16"	59k
W14 & W12	3	1/4"	3/16"	43k
W10 & W8	2	1/4"	3/16"	28k

NOTES:
1. CAPACITY IS BASED ON LRFD DESIGN WITH STANDARD OR SHORT HORIZONTAL SLOTTED HOLES. OVERSIZE OR VERTICAL SLOTTED HOLES ARE NOT ALLOWED. FOR STANDARD HOLES MINIMUM PLATE THICKNESS SHALL BE USED.
2. NUMBER OF BOLTS SHOWN IS THE MINIMUM REQUIRED FOR CONNECTIONS
3. PREHEAT WELDS AS REQUIRED BY AISC.
4. BEAMS WITH LARGE COPES MAY REQUIRE WEB STIFFENER.

2 TYP SINGLE PLATE BEAM TO GIRDER CONN
NOT TO SCALE

SINGLE-PLATE CONNECTION DETAIL

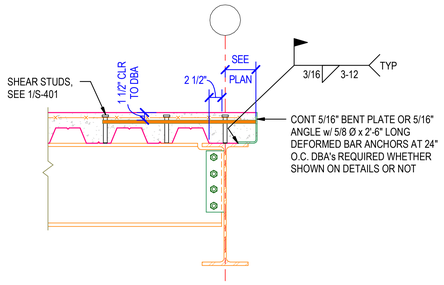


BOLT SCHEDULE

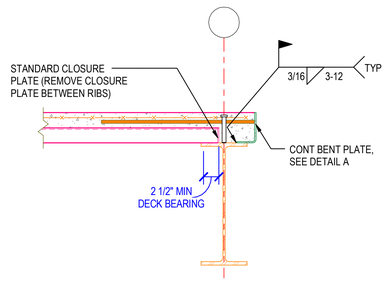
BEAM SIZE	ROWS OF 3/4" Ø H.S. BOLTS	MIN. PLATE THICKNESS	MIN. FILLET WELD SIZE	CAPACITY
W16	4	1/4"	3/16"	59k
W14 & W12	3	1/4"	3/16"	43k
W10 & W8	2	1/4"	3/16"	28k

NOTES:
1. CAPACITY IS BASED ON LRFD DESIGN WITH STANDARD OR SHORT HORIZONTAL SLOTTED HOLES AND A MAXIMUM HSS WIDTH TO THICKNESS RATIO OF 33.7. OVERSIZE OR VERTICAL SLOTTED HOLES ARE NOT ALLOWED. FOR STANDARD HOLES MINIMUM PLATE THICKNESS SHALL BE USED.
2. NUMBER OF BOLTS SHOWN IS THE MINIMUM REQUIRED FOR CONNECTIONS
3. PREHEAT WELDS AS REQUIRED BY AISC.
4. USE STANDARD HOLES ALONG BRACED FRAME OR MOMENT FRAME GRID LINES.

3 TYP BEAM TO HSS COLUMN CONN SCHEDULE
NOT TO SCALE

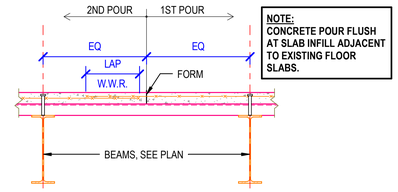


A AT EXTERIOR GIRDERS OR INTERIOR OPENINGS
(DECK PARALLEL TO GIRDER)



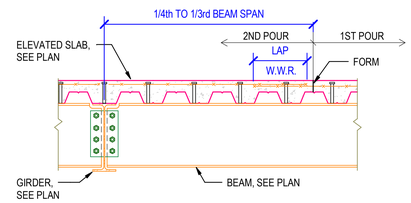
B AT EXTERIOR GIRDERS OR INTERIOR OPENINGS
(DECK PERPENDICULAR TO GIRDER)

4 TYP COMPOSITE FLOOR EDGE DETAILS
NOT TO SCALE



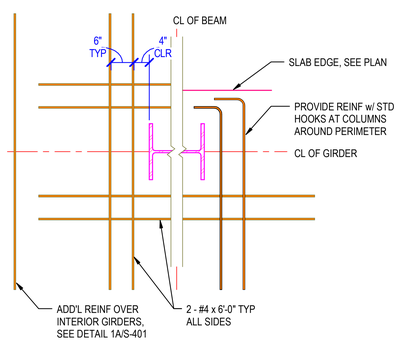
NOTE:
CONCRETE POUR FLUSH AT SLAB INFILL ADJACENT TO EXISTING FLOOR SLABS.

A JOINT PERPENDICULAR TO DECK

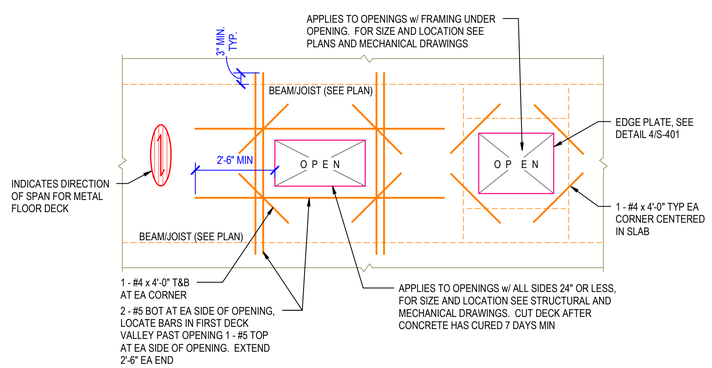


B JOINT PARALLEL TO DECK

5 TYP COMPOSITE FLOOR CONSTRUCTION JOINT
3/4" = 1'-0"



6 ADDITIONAL TOP REINF AT EACH COLUMN
NOT TO SCALE



7 TYP FRAMING AT FLOOR OPENINGS
NOT TO SCALE

CENTRAL ARKANSAS WATER

JAMES T. HARVEY

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Date March 28, 2025

Title FRAMING SECTIONS AND DETAILS

Sheet No. **S-401**

Project Name
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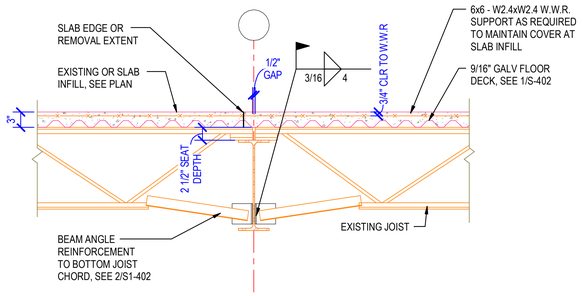
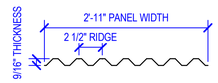


B INTERIOR JOIST AND GIRDERS

NOTES:

1. THE MINIMUM YIELD STRENGTH, Fy, SHALL BE 40 KSI.
2. DECK TO SPAN TWO SUPPORTS MINIMUM.
3. DECK SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A653, G90.
4. SECTION PROPERTIES SHOWN MAY VARY BY 10% MAX.
5. SECURE DECK TO SUPPORTING STRUCTURE AT 18" O.C. MAX WITH PUDDLE WELDS, POWDER ACTUATED FASTENERS, OR HEADED STUDS.
6. BEAMS AND GIRDERS ARE NOT REQUIRED TO BE SHORED. DECKING DOES NOT REQUIRE SHORING UNLESS DECK SPAN EXCEED SDI ALLOWABLE CONSTRUCTION SPANS.

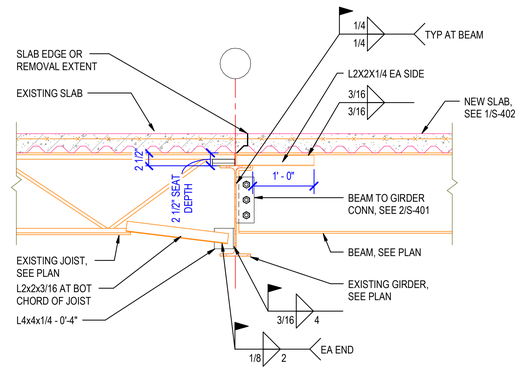


0.6C DECK

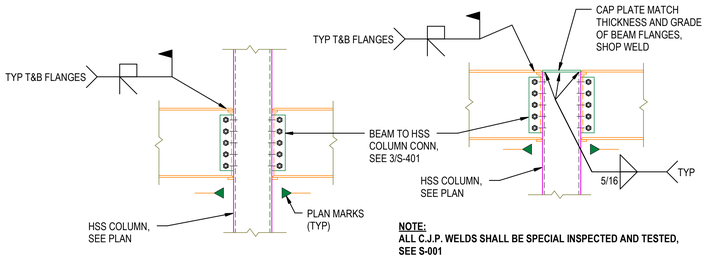
DESIGN PROPERTIES		SECTION PROPERTIES		
DEPTH	THICKNESS (GAGE)	WEIGHT (lbs/ft^2)	Ip / In (in^4 /ft)	Sp / Sn (in^3 /ft)
9/16"	0.0299" (22)	1.4	0.021 / 0.021	0.069 / 0.068

B DECK SECTION PROPERTIES

1 TYP NON-COMPOSITE FLOOR CONSTRUCTION
NOT TO SCALE



2 BEAM W/JOIST BEARING AT INTERIOR GIRDER
NOT TO SCALE



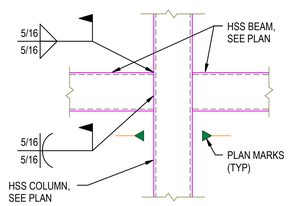
NOTE:
ALL C.J.P. WELDS SHALL BE SPECIAL INSPECTED AND TESTED, SEE S-001

A AT INTERIOR FLOOR BEAMS

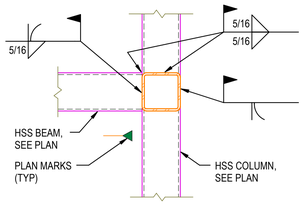
B AT EXTERIOR ROOF BEAMS

NOTES:

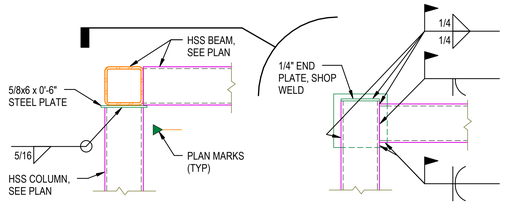
1. **C.J.P. = COMPLETE PENETRATION GROOVE WELD.**
2. **ALL BOLTED CONNECTIONS SHALL BE PRETENSIONED.**
3. **WHEN MORE THAN ONE MOMENT CONNECTION OCCURS AT A COLUMN, CAP PLATE TO COLUMN WELD CRITERIA:**
   A. **WEB TO CAP PLATE WELD DEVELOPS THE SMALL OF SHEAR CAPACITY OF WEB; OR 0.66Fy x (AREA OF BEAM TOP FLANGES PARALLEL TO COLUMN WEB AND MOMENT CONNECTED TO COLUMN)**
   B. **FLANGE TO CAP PLATE WELD DEVELOPS THE SMALLER OF - SHEAR CAPACITY OF FLANGES; OR 0.66Fy x (AREA OF BEAM TOP FLANGES PARALLEL TO COLUMN FLANGES AND MOMENT CONNECTED TO COLUMN).**
4. **WHEN MOMENT CONNECTIONS OCCUR IN BOTH DIRECTIONS: STIFFENERS SHALL BE C.P. WELDED TO COLUMN FLANGES WITH FILLET WELDS TO COLUMN WEB. STIFFENER THICKNESS = $\sqrt{(t_b)^2+(t_c)^2}$ WHERE t=RESPECTIVE BEAM FLANGE THICKNESS.**
5. **REMOVE AND GRIND SMOOTH ERECTION TABS.**
6. **MAY PROVIDE**



C AT HSS BEAM TO EDGE COLUMN



D AT HSS BEAM TO CORNER COLUMN



E AT VESTIBULE ROOF BEAMS

3 TYP NON-SEISMIC MOMENT CONNECTION TO HSS: WELDED
NOT TO SCALE

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WATER

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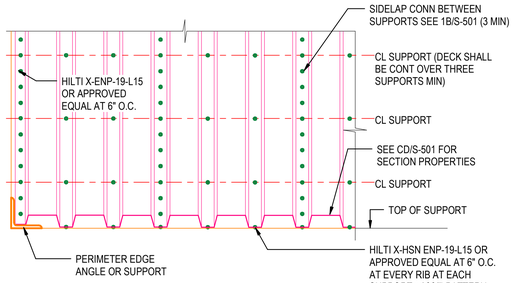
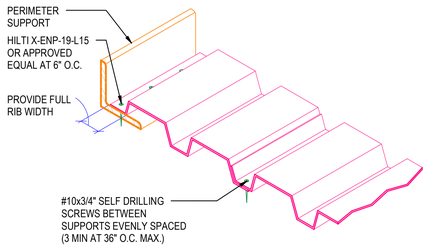
Title
FRAMING SECTIONS AND DETAILS

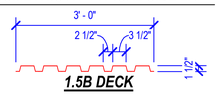
Sheet No.
S-402



A TYPICAL DECK WELDING PATTERN PLAN



B ISOMETRIC AT TYPICAL SIDE LAP



1. EDGES OF SHEET SHALL BE COMPLETELY ENGAGED.
2. DECK GALVANIZING SHALL CONFORM TO ASTM a653 G60

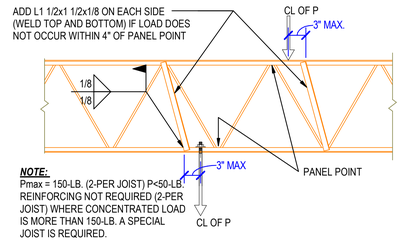
C DECK NOTES

DESIGN PROPERTIES			SECTION PROPERTIES		
DEPTH	THICKNESS (GAGE)	DIAPHRAGM SHEAR (lbs/ft)	WEIGHT (lbs/ft^2)	Ip / In (in^4 /ft)	Sp / Sn (in^3 /ft)
1.5"	0.0358" (20)	420 AT 5'-0" O.C.	1.89	0.201 / 0.222	0.234 / 0.247

NOTES:
1.SECTION PROPERTIES SHOWN MAY VARY 10%.
2. DECK Fy = 33 ksi MIN.

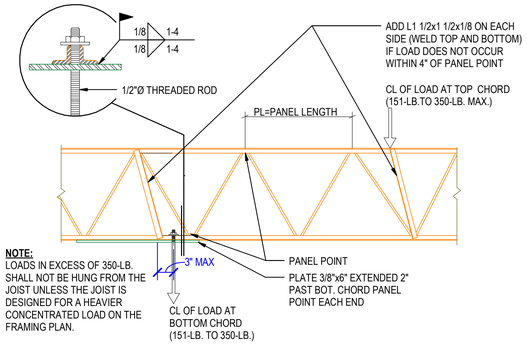
D SECTION PROPERTIES

1 TYPICAL 1.5B ROOF DECK ANCHORAGE
NOT TO SCALE



NOTE:
Pmax = 150-LB. (2-PER JOIST) P<50-LB. REINFORCING NOT REQUIRED (2-PER JOIST) WHERE CONCENTRATED LOAD IS MORE THAN 150-LB. A SPECIAL JOIST IS REQUIRED.

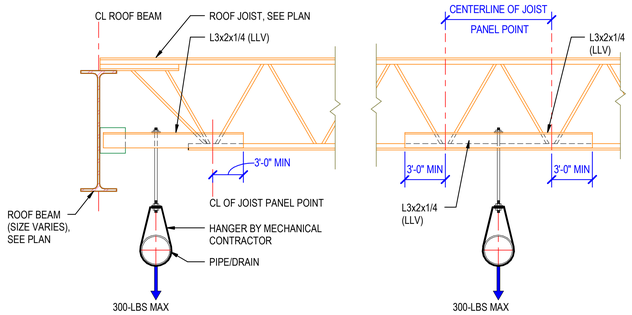
A CONCENTRATED LOADS FROM 50-LB. TO 150-LB.



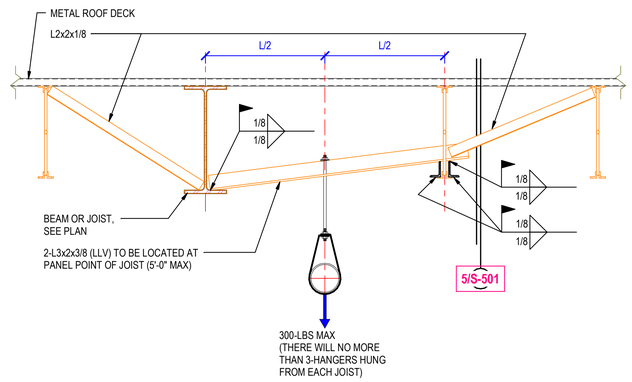
NOTE:
LOADS IN EXCESS OF 350-LB. SHALL NOT BE HUNG FROM THE JOIST UNLESS THE JOIST IS DESIGNED FOR A HEAVIER CONCENTRATED LOAD ON THE FRAMING PLAN.

B CONCENTRATED LOADS FROM 151-LB. TO 350-LB.

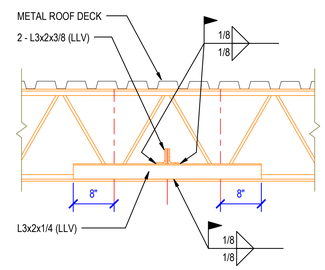
2 TYP JOIST REINFORCEMENT AT CONCENTRATED LOADS
3/4" = 1'-0"



3 METHOD OF HANGING PIPING RUNNING PERPENDICULAR TO ROOF JOISTS
1" = 1'-0"

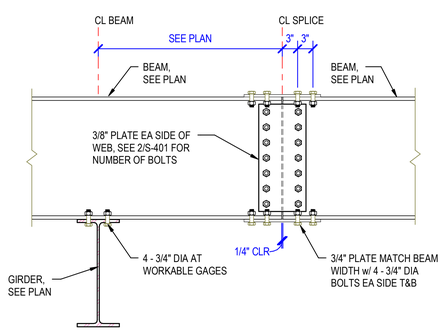


4 METHOD OF HANGING PIPING RUNNING PARALLEL TO ROOF JOISTS
1" = 1'-0"

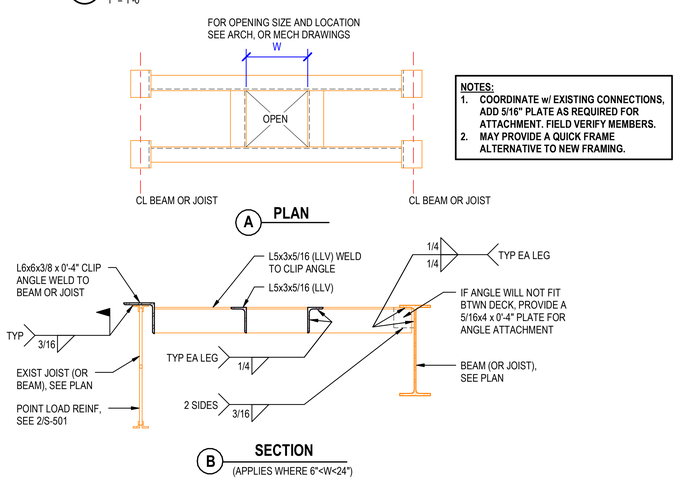


GENERAL NOTES:
1. SPRINKLER PIPING HANGING SHALL BE DESIGNED BY THE CONTRACTOR SO THAT MAX LOAD APPLIED TO ROOF STRUCTURE SHALL NOT EXCEED AS SHOWN ABOVE.
2. CONTRACTOR SHALL SUBMIT PIPING LAYOUT AND LOADS BEFORE SUBMITTING STEEL SHOP DRAWINGS
3. ANY ADDITIONAL STEEL REQUIRED SHALL B PROVIDED BY CONTRACTOR WITHOUT ADDITIONAL COST TO GOVERNMENT/OWNER.

5 SECTION AT HANGING PIPING RUNNING PARALLEL TO ROOF JOISTS
1" = 1'-0"



6 TYPICAL CONTINUOUS BEAM SPLICE
1" = 1'-0"



NOTES:
1. COORDINATE w/ EXISTING CONNECTIONS, ADD 5/16" PLATE AS REQUIRED FOR ATTACHMENT. FIELD VERIFY MEMBERS.
2. MAY PROVIDE A QUICK FRAME ALTERNATIVE TO NEW FRAMING.

7 TYPICAL FRAMING AT ROOF OPENING AND EXISTING FLOORS
1" = 1'-0"

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Title ROOF FRAMING SECTIONS AND DETAILS

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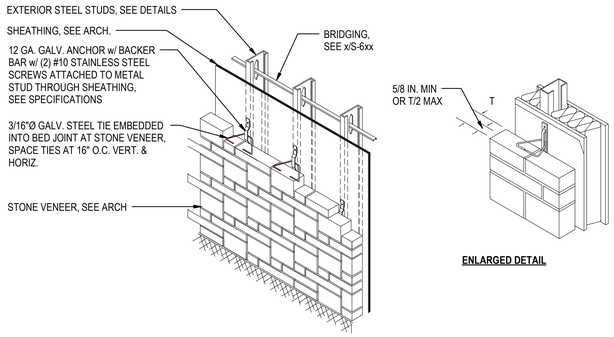
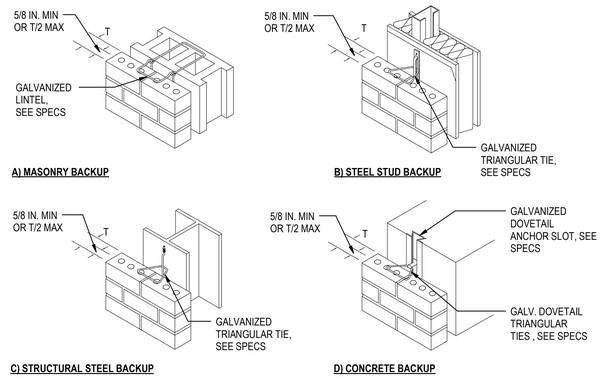
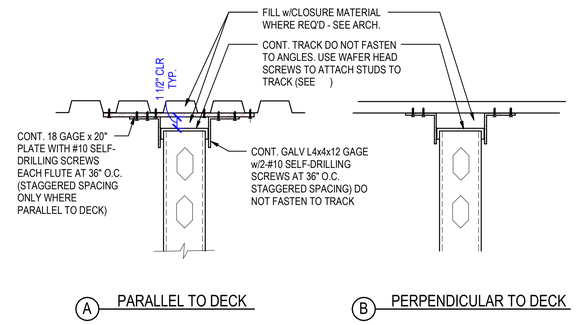


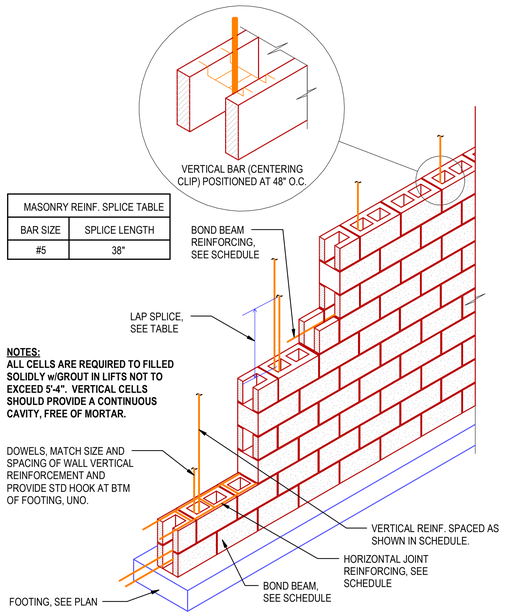
1 TYPICAL STONE ANCHORAGE TO EXTERIOR METAL STUDS
NOT TO SCALE



2 ADJUSTABLE BRICK TIE DETAILS
1" = 1'-0"



3 TYPICAL INTERIOR STUD WALL ANCHORAGE TO STRUCTURE
1 1/2" = 1'-0"



MASONRY REINF. SPLICE TABLE	
BAR SIZE	SPLICE LENGTH
#5	38"

NOTES:
ALL CELLS ARE REQUIRED TO FILLED SOLIDLY w/GROUT IN LIFTS NOT TO EXCEED 5'-4". VERTICAL CELLS SHOULD PROVIDE A CONTINUOUS CAVITY, FREE OF MORTAR.

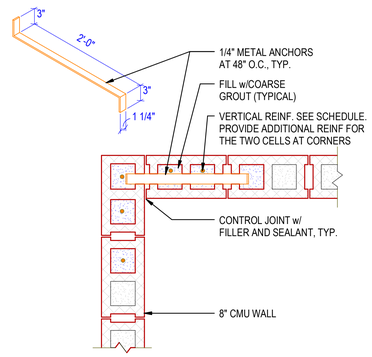
A MASONRY WALL ELEVATION AND SPLICE TABLE

CMU WALL REINFORCEMENT SCHEDULE			
	REINFORCEMENT		
DESCRIPTION	VERTICAL	HORIZONTAL	REMARKS
10" WALLS, FULLY GROUTED, TYP.	#5 AT 16" O.C.	CONT. BOND BEAM w/1-#5 AT 48" O.C., AT FLOORS, AT TOP OF WALL, AND ABOVE OPENINGS	SEE NOTE-2 FOR DOWEL INFORMATION

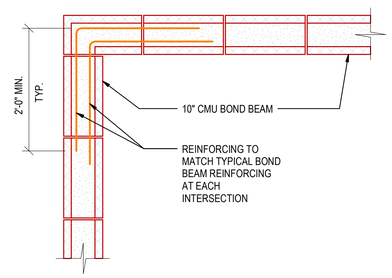
NOTES:
1. **USE BOND BEAM UNITS WITH OPEN BOTTOM AT CELLS WITH VERTICAL REINFORCEMENT.**
2. **USE #5 DOWELS TO MATCH #5 VERTICAL REINFORCEMENT. ALL DOWELS TO MATCH SPACING OF VERTICAL REINFORCEMENT, U.N.O.**
3. **ALSO SEE GENERAL NOTES ON SHEET S-001 FOR ADDITIONAL INFORMATION.**

B REINFORCEMENT SCHEDULE

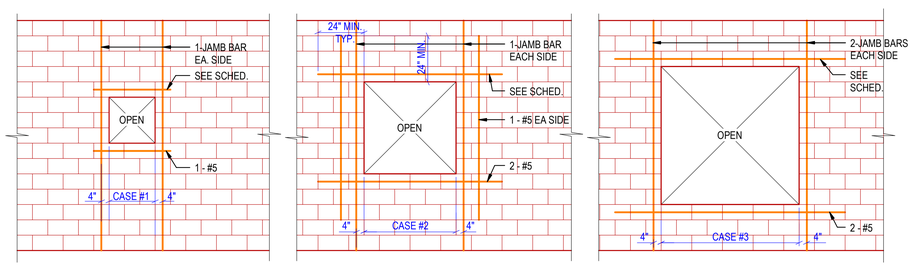
4 TYPICAL CONCRETE MASONRY WALLS
NOT TO SCALE



5 CORNERS OF CMU WALLS
NOT TO SCALE



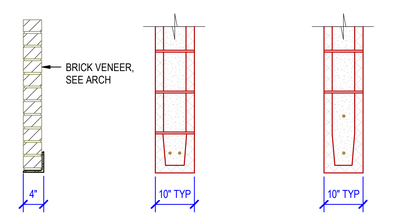
6 TYPICAL BOND BEAM CORNER REINF.
1" = 1'-0"



A CASE #1 W=10" TO 24"
B CASE #2 W=25" TO 48"
C CASE #3 W>48"

NOTES:
1. **W=MAXIMUM DIMENSION OF OPENING, VERTICAL OR HORIZONTAL.**
2. **NO SUPPLEMENTAL REINFORCEMENT IS REQUIRED AT OPENINGS WITH A MAXIMUM DIMENSION SMALLER THAN 10".**
3. **JAMB BARS ARE SAME SIZE AS TYPICAL VERTICAL WALL REINFORCING (SEE DETAIL 1 ON SHEET S-6xx) AND IN ADDITION TO TYP. VERT. REINF., UNO.**
4. **PROVIDE LINTEL ANGLES AS PER DETAIL 2 THIS SHEET.**
5. **USE STD HOOK AT ENDS OF LINTEL REINF. IF THERE IS INADEQUATE WALL LENGTH FOR 24" MIN. EXTENSION BEYOND OPENING**

7 TYPICAL SUPPLEMENTAL REINF. AT MASONRY WALL OPENINGS
NOT TO SCALE



A VENEER ONLY
B SINGLE WYTHE
OPENINGS < 6'-0"
C SINGLE WYTHE
OPENINGS > 6'-0"

NOMINAL WALL THICKNESS (t)	WIDTH OF OPENING		
	10" TO 3'-6"	3'-7" TO 6'-0"	6'-1" TO 9'-0"
4"	L4x4x5/16	L5x5x3/8	L5x5x3/8
10"	8" CMU BOND BEAM w/#5 BOTTOM	8" CMU BOND BEAM w/2 - #5 BOTTOM	16" CMU BOND BEAM w/ 2 - #5 BOTTOM

NOTES:
1. LINTEL SCHEDULE APPLIES UNLESS NOTED OR DETAILED OTHERWISE.
2. WHERE ANGLES ARE BACK-TO-BACK, WELD TOGETHER.
3. 8" MIN. ANGLE BEARING AT EACH END WITH MIN. 1 - #5 VERT. REINF. UP TO BRG. FOR OPNGS. (SEE 7/S-601).
4. PROVIDE GALV. SUPPORT ANGLES FOR LINTELS WITH EXTERIOR EXPOSURE.
5. EXTEND LINTEL REINF. AT LEAST 24 INCHES PAST EDGE OF OPENINGS. WHERE ONLY 16 INCHES IS AVAILABLE USE STD HOOK AT ENDS.

8 LINTEL SCHEDULE
1" = 1'-0"

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Job No. CENTRA24.00
Date March 28, 2025
Title MASONRY SECTIONS AND DETAILS
Sheet No. **S-601**

Project Name
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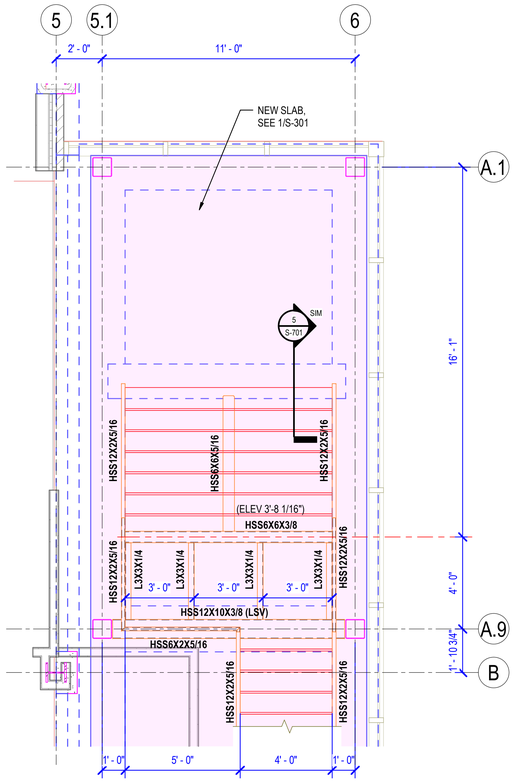
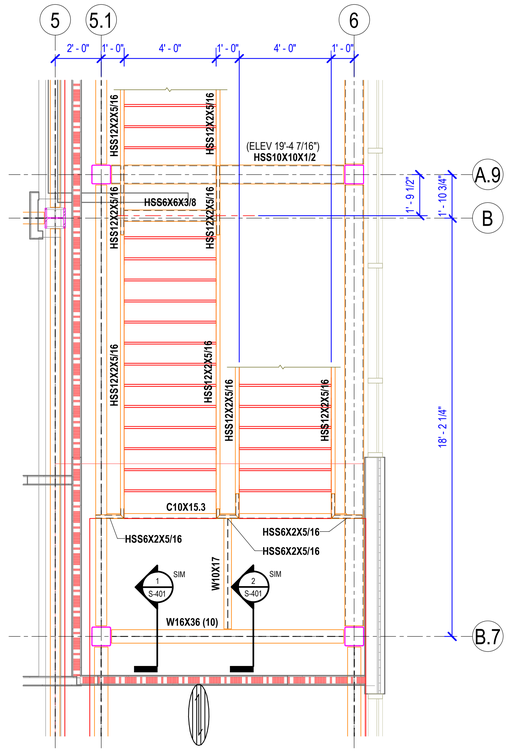
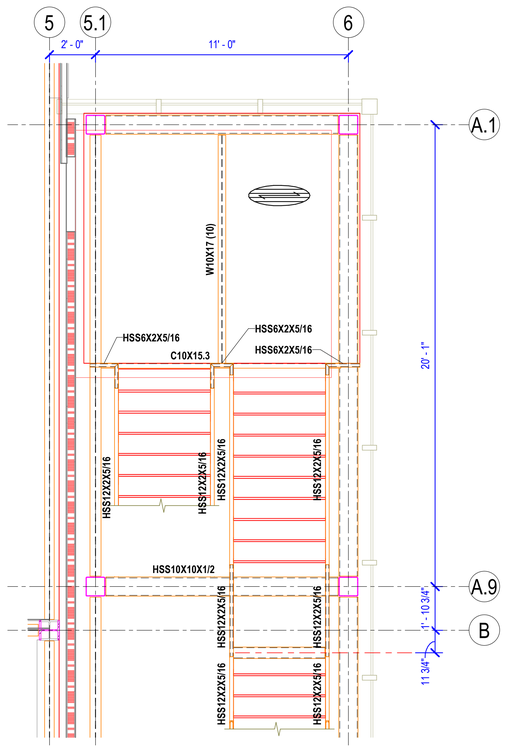


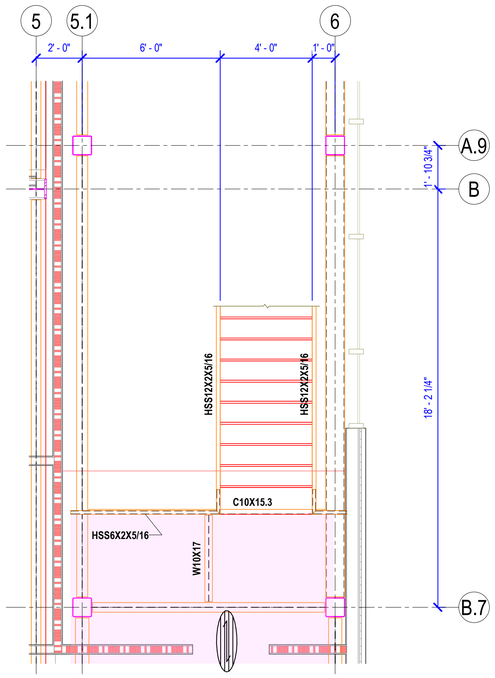
1 STAIR FRAMING AT 1ST FLOOR INTERMEDIATE LANDING
3/8" = 1'-0"



2 STAIR FRAMING AT 2ND FLOOR INTERMEDIATE LANDING
3/8" = 1'-0"

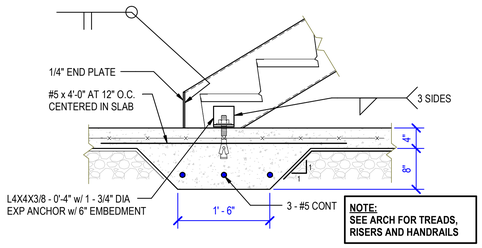


3 STAIR FRAMING AT 3RD FLOOR INTERMEDIATE LANDING
3/8" = 1'-0"



4 STAIR FRAMING AT 4TH FLOOR
3/8" = 1'-0"

NOTE:
SEE PLANS FOR ADD'L STAIR FRAMING SIZES



NOTE:
SEE ARCH FOR TREADS, RISERS AND HANDRAILS

5 TYPICAL STAIR STRINGER CONN. TO SLAB ON GRADE
1" = 1'-0"

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STAIR PLANS AND DETAILS

Sheet No.

S-701

Project Name
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ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	MBH	THOUSAND BTUs PER HOUR
AHU	AIR HANDLING UNIT	MCA	MINIMUM CIRCUIT AMPS
BHP	BRAKE HORSE POWER	MOCP	MAXIMUM OVER CURRENT PROTECTION
BTU	BRITISH THERMAL UNIT		
CFM	CUBIC FEET PER MINUTE	NC	NORMALLY CLOSED
CV	CONSTANT VOLUME	NO	NORMALLY OPENED
CU	CONDENSING UNIT	NTS	NOT TO SCALE
DB	DRY BULB TEMPERATURE (°F)	OA	OUTSIDE AIR
DDC	DIRECT DIGITAL CONTROLS	PSI	POUNDS PER SQUARE INCH
DOAS	DEDICATED OUTSIDE AIR SYSTEM	PSIG	PSI GAUGE
DN	DOWN	PVC	POLYVINYL CHLORIDE PIPE
EAT	ENTERING AIR TEMPERATURE	RA	RETURN AIR
EF	EXHAUST FAN	RH	RELATIVE HUMIDITY
ESP	EXTERNAL STATIC PRESSURE	RHC	REHEAT COIL
EWT	ENTERING WATER TEMPERATURE	RLA	RUNNING LOAD AMPS
FCU	FAN COIL UNIT	RPM	REVOLUTIONS PER MINUTE
FD	FIRE DAMPER	RS/RL	REFRIGERANT SUCTION & LIQUID LINES
FLA	FULL LOAD AMPS		
FPI	FINS PER INCH	RTU	ROOFTOP AIR HANDLING UNIT
FPM	FEET PER MINUTE	SA	SUPPLY AIR
GPM	GALLONS PER MINUTE	SF	SUPPLY FAN
IV	INTAKE VENTILATOR	SP	STATIC PRESSURE
KW	KILOWATT	TSP	TOTAL STATIC PRESSURE
LAT	LEAVING AIR TEMPERATURE	VAV	VARIABLE AIR VOLUME
LRA	LOCKED ROTOR AMPS	VRF	VARIABLE REFRIGERANT FLOW
LWT	LEAVING WATER TEMPERATURE	VFD	VARIABLE FREQUENCY DRIVE
		WB	WET BULB TEMPERATURE (°F)

GENERAL MECHANICAL SYMBOLS

- REVISION NUMBER SHOWN ON PLANS
- POINT WHERE NEW CONNECTS TO EXISTING
- DEMOLISH TO POINT INDICATED
- NUMBER OF DETAIL ON SHEET / NUMBER OF SHEET WHERE DETAIL APPEARS
- KEYNOTE

CONTINUATION SYMBOLS:

- PIPE
- ROUND DUCT
- RECTANGULAR DUCT

SPACE TAG:

- OFFICE — SPACE NAME
- 101 — SPACE NUMBER
- 100 SF — SPACE AREA
- ITEM TO BE DEMOLISHED
- AREA NOT IN CONTRACT

HVAC ENERGY DESIGN CONDITIONS

LOCATION:	LITTLE ROCK, AR
OUTDOOR SUMMER (1% OCCURANCE):	95.6°F DB / 77.3°F WB
OUTDOOR WINTER (99.0% OCCURANCE):	23.9°F DB / 19.7°F WB
INSIDE SETPOINT SUMMER:	72°F DB / 50% MAX RH.
INSIDE SETPOINT WINTER:	68°F DB

SEISMIC DESIGN CONDITIONS

1. SEISMIC DESIGN DATA:
   A. SEISMIC DESIGN CATEGORY: C
   B. MECHANICAL COMPONENTS IMPORTANCE FACTOR:
2. SEISEMIC RESTRAINTS ARE **((NOT))** REQUIRED FOR THE MECHANICAL COMPONENTS AND SYSTEMS PER THE REQUIREMENTS FOR THE INTERNATIONAL BUILDING CODE (IBC) AS DEFINED PER ASCE 7-10 SECTION 13.6.
3. REFER TO THE SPECIFICATIONS.

MECHANICAL SHEET SET NOTE

* NOTE *

ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THE CONTAINED REFERENCE DRAWINGS.

MECHANICAL EQUIPMENT TAGS

- AHU-XX — EQUIPMENT MARK ID
- VAV-XX — EQUIPMENT MARK ID; 200 CFM — EQUIPMENT AIRFLOW; VAV-XX — EQUIPMENT MARK ID

MECHANICAL PHASING

- NEW CONSTRUCTION MECHANICAL EQUIPMENT (TYPICAL TAG FOR ALL NEW CONSTRUCTION) — VAV-XX
- EXISTING MECHANICAL EQUIPMENT (TYPICAL FOR ALL EXISTING TAGS) — (E)VAV-XX
- MECHANICAL EQUIPMENT FOR DEMOLITION (TYPICAL FOR ALL DEMOLITION TAGS) — (D)VAV-XX

DUCT ACCESSORIES

- FIRE DAMPER
- SMOKE DAMPER
- COMBINATION FIRE/SMOKE DAMPER
- MANUAL BALANCING DAMPER
- MOTORIZED DAMPER

MECHANICAL DATA DEVICES

- SENSOR
- MANUAL SWITCH
- THERMOSTAT
- SENSOR INTERLOCK
- AHU-1
- LOCKING COVER (OPTIONAL)

HVAC DUCTWORK LEGEND

22/14	SQUARE DUCT SIZE TAG (WIDTH x HEIGHT)
22/14Ø	OVAL DUCT SIZE TAG (WIDTH / HEIGHT)
22Ø	ROUND DUCT SIZE TAG (DIAMETER)
(E)	EXISTING DUCT TAG
(D)	DUCT BEING DEMOLISHED
S/A	SUPPLY AIR
O/A	OUTSIDE AIR
R/A	RETURN AIR
E/A	EXHAUST AIR
GE/A	GREASE EXHAUST AIR
SE/A	LAB & SPECIALTY EXHAUST AIR

DROP	RECTANGULAR SUPPLY/OUTSIDE AIR DUCT RISE
DROP	ROUND SUPPLY/OUTSIDE AIR DUCT RISE
DROP	RECTANGULAR RETURN AIR DUCT RISE
DROP	ROUND RETURN AIR DUCT RISE
DROP	RECTANGULAR EXHAUST AIR DUCT RISE
DROP	ROUND EXHAUST AIR DUCT RISE

- FLEXIBLE CONNECTION
- 90° ELBOW W/ TURNING VANE
- 90° BEND, ROUND DUCT
- 45° BEND, ROUND DUCT
- 45° RECTANGULAR DUCT
- 30° OR LESS FOR ALL SIMILAR FITTINGS (TOP / SIDE)
- RECTANGULAR TRANSITION (TOP / SIDE)

HVAC GRILLES/DIFFUSERS

- SUPPLY DIFFUSER (SEE PLANS OR SCHEDULE FOR SIZES)
- RETURN GRILLE (SEE PLANS OR SCHEDULE FOR SIZES)
- EXHAUST GRILLE (SEE PLANS OR SCHEDULE FOR SIZES)

HYDRONIC PIPING LEGEND

6"	PIPE SIZE TAG (DIAMETER Ø")
6" CHR	PIPE SIZE AND SYSTEM TAG
(E)	EXISTING PIPE TAG
(D)	DEMOLITION PIPE TAG
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CD	CONDENSATE DRAINAGE
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
RS/RL	REFRIGERANT 2-LINE SET
RS/RL/HG	REFRIGERANT 3-LINE SET
RHG	REFRIGERANT HOT GAS
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
CDR	STEAM CONDENSATE RETURN

METALLIC PIPE SYMBOLS

- PIPE TEE
- PIPE DROP
- PIPE ELBOW
- PIPE CAP
- PIPE RISE

PLASTIC PIPE SYMBOLS

- PIPE RISE
- PIPE CAP
- PIPE WYE 8TH TEE
- PIPE TEE
- PIPE DROP
- PIPE CROSS
- PIPE PLUG

PIPE ACCESSORIES

- 2-WAY MOTORIZED VALVE
- 3-WAY MOTORIZED VALVE
- 3-WAY VALVE
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- GATE VALVE
- GLOBE VALVE
- NEEDLE VALVE
- PLUG VALVE
- PRESSURE REDUCING VALVE
- SOLENOID VALVE
- SWING CHECK VALVE
- UNION

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH THE 2021 EDITION OF THE "INTERNATIONAL MECHANICAL CODE", THE 2014 EDITION OF THE "ARKANSAS ENERGY CODE", NFPA 90A, AND ALL CITY, STATE, AND LOCAL REQUIREMENTS.
2. REFER TO THE PROJECT MANUAL FOR ALL REQUIREMENTS
3. REFER TO ARCHITECTURAL PLANS FOR:
   * REFLECTED CEILING PLAN FOR EXACT LOCATION OF AIR DEVICES AND CEILING TYPES.
   * EXACT LOCATIONS AND MOUNTING HEIGHTS OF EXTERIOR LOUVERS.
   * FIRE RATED WALLS AND PARTITIONS. PROVIDE FIRE DAMPERS IN DUCT PENETRATIONS OF ALL FIRE RATED WALLS AND PARTITIONS AS NECESSARY TO MEET CITY AND STATE REQUIREMENTS.
   * ALL WALL AND ROOF PENETRATIONS AND EQUIPMENT MOUNTING DETAILS.
4. ALL DUCTWORK SHALL BE CONSTRUCTED FROM GALVANIZED STEEL IN CONFORMANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS," LATEST EDITION
5. U.L. LISTED FLEXIBLE DUCT RUN-OUTS MAY BE USED, BUT SHALL NOT EXCEED 5'-0" IN LENGTH. ALL FLEXIBLE DUCT TO BE PROPERLY SUPPORTED WITH NO KINKS OR HARD BENDS.
6. DUCT FITTINGS:
   * SUPPLY TAKE-OFFS TO CEILING SUPPLY DIFFUSERS TO BE CONICAL TAP OR 45° SIDE TAP.
   * ALL DUCT RUN-OUTS TO HAVE LOCKING QUADRANT VOLUME DAMPERS. PROVIDE STAND-OFF BRACKET TO ACCOMMODATE INSULATION THICKNESS.
   * ALL 90° ROUND ELBOWS TO HAVE R/D=1.5 (UNLESS OTHERWISE NOTED).
   * ALL 90° RECTANGULAR ELBOWS TO HAVE TURNING VANES (UNLESS OTHERWISE NOTED).
   * PROVIDE HARD ELBOW WHEN TRANSITIONING FROM RIGID TO FLEXIBLE DUCT WHEN CONNECTING TO AIR DEVICES. REFER TO DETAIL.
7. DUCTWORK TO BE COORDINATED WITH STRUCTURAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION, COMPONENTS AND SYSTEMS. ALL DUCTWORK THAT HAS TO BE OFFSET DUE TO AN OBSTRUCTION SHALL BE SLOPED WITH 2-30° ELBOWS UNLESS OTHERWISE NOTED.
8. PROVIDE ACCESS PANELS IN CEILINGS OTHER THAN LAY-IN TYPE WHERE NECESSARY: - CLOSELY COORDINATE LOCATIONS AND SIZE OF ACCESS PANELS WITH INSTALLED EQUIPMENT TO ACHIEVE GREATEST ACCESSIBILITY FOR MAINTENANCE PURPOSES. - PROVIDE ACCESS PANEL AT BALANCING DAMPERS, FIRE DAMPERS, CONTROLS, VALVES, TRAPS, CLEAN OUTS, ETC. - PROVIDE ACCESS PANELS FOR GREASE DUCTS, AS REQUIRED BY NFPA 96, FOR CLEANING PURPOSES, AT CHANGES IN DIRECTION, ETC.
9. COMPLETELY INSULATE THE TOPS OF ALL CEILING DIFFUSERS.
10. CLOSELY COORDINATE LOCATIONS OF INSTALLED EQUIPMENT TO ACHIEVE THE GREATEST ACCESSIBILITY.
11. MAINTAIN 10'-0" MINIMUM CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND ALL EXHAUST FANS, FLUES, PLUMBING VENTS, ETC.
12. ALL ROOF MOUNTED HVAC EQUIPMENT, INCLUDING BUT NOT LIMITED TO EXHAUST FANS, CONDENSING UNITS, AND ROOF-TOP UNITS, SHALL BE A MINIMUM OF 10' FROM THE ROOF'S EDGE, OR PARAPET, UNLESS OTHERWISE NOTED ON PLANS. IN SUCH CASE, CONTRACTOR SHALL COORDINATE WITH ARCHITECT TO PROVIDE SAFETY HANDRAILS AROUND ROOF MOUNTED HVAC EQUIPMENT THAT IS LOCATED LESS THAN 10' FROM ROOF'S EDGE, OR PARAPET.
13. PROVIDE FLEXIBLE CONNECTIONS AT INLETS AND OUTLETS OF ALL AIR HANDLING UNITS, MAKE-UP AIR UNITS, FURNACES, AND/OR EXHAUST FANS.
14. PROVIDE 4" CONCRETE PADS UNDER ALL GROUND MOUNTED CONDENSING UNITS. EACH PAD TO EXTEND A MINIMUM OF 6" BEYOND OUTLINE OF UNIT ON ALL SIDES.
15. ROOF MOUNTED CONDENSING UNITS SHALL BE PLACED ON PATE OR APPROVE EQUAL EQUIPMENT SUPPORTS, MODEL ES-2 W/ INSULATION, FIBER CANT, AND METAL CAP, MINIMUM 11" HIGH ABOVE ROOF DECK. MAKE WEATHER TIGHT.
16. PROVIDE 6" CONCRETE PADS UNDER ALL GROUND MOUNTED AIR HANDLING UNITS AND CHILLERS. EACH PAD TO EXTEND A MINIMUM OF 6" BEYOND OUTLINE OF UNIT ON ALL SIDES.
17. ATTIC MOUNTED AND ABOVE CEILING MOUNTED EQUIPMENT SUBJECT TO WATER/CONDENSATE OVERFLOW SHALL BE SET IN DRAIN PANS WITH DRAINS TO THE OUTSIDE OR SANITARY SEWER SYSTEM WITH VISIBLE DISCHARGE.
18. CONDENSATE PIPING SHALL BE COMPRISED OF TYPE "M", DWV COPPER, OR SCHEDULE 40 PVC. PVC EXPOSED TO SUNLIGHT SHALL HAVE UV RESISTANT COATING.
19. PROVIDE APPROVED, NON-FLAMMABLE PIPE INSULATION ON ALL INSULATED PIPES AND PIPES OF PVC MATERIAL PASSING THRU AREAS OF BUILDING WITH RETURN AIR PLENUMS.
20. ALL EXTERIOR EXPOSED PIPING SUSCEPTIBLE TO FREEZING, SUCH AS CONDENSATE PIPING, SHALL BE INSULATED WITH 1" FIBERGLASS PIPING INSULATION WITH 0.020" ALUMINUM JACKET AND HEAT TRACED AT 5 WATTS/FOOT. SEAL JACKET WATER-TIGHT.
21. ALL WALL-MOUNTED, OCCUPANT-CONTROLLED HVAC DEVICES, I.E., THERMOSTATS, HUMIDISTAT, CO2 CONTROLLERS, CONTROL PANELS, ETC., SHALL BE MOUNTED 4'-0" ABOVE FINISHED FLOOR. CONTROLS LOCATED IN PUBLIC AREAS SHALL HAVE CLEAR PLASTIC LOCKING COVERS.
22. COORDINATE WORK CLOSELY WITH CONTROL CONTRACTOR. PROVIDE ALL NECESSARY DUCT, PIPE TAPS, TEES, WELLS, CONTROL DAMPERS, AIR MEASURING STATIONS, AND OTHER ACCESSORIES REQUIRED BY CONTROL SYSTEM.
23. SLEEVE AND SEAL ALL PIPE AND DUCT PENETRATIONS THROUGH FIRE RATED AND NON-RATED SLABS AND PARTITIONS.

DEMOLITION NOTES

1. CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO:
   * PIPE SIZES AND ROUTING.
   * EQUIPMENT CONNECTIONS AND LOCATIONS.
   * CONTROLS.
2. PROVIDE NECESSARY MODIFICATIONS TO NEW AND EXISTING SYSTEMS TO FACILITATE THE INSTALLATION AND INTERFACE OF NEW AND EXISTING SYSTEMS.
3. EXISTING SYSTEMS AND INFORMATION SHOWN ON THESE PLANS WERE DEVELOPED USING EXISTING BUILDING DRAWINGS. CONTRACTOR SHALL VERIFY AT SITE ALL EXISTING SYSTEMS. REMOVE ALL PORTIONS OF PIPING SYSTEMS BEING REMOVED OR ABANDONED. TERMINATE EXISTING SYSTEMS ABOVE CEILINGS AND BELOW FLOOR SLABS IN A MANNER THAT WILL NOT CONFLICT WITH NEW WORK. CLOSELY COORDINATE NEW WORK WITH EXISTING SYSTEMS. PROVIDE OFFSETS IN EXISTING AND NEW SYSTEMS AS REQUIRED TO AVOID CONFLICTS.
4. COORDINATE AND SCHEDULE ALL CONNECTIONS TO EXISTING SYSTEMS AND SYSTEM SHUT-DOWNS WITH MAINTENANCE PERSONNEL.
5. MAINTAIN EXISTING BUILDING SYSTEMS WITH PHASED DEMOLITION AND INSTALLATION OF NEW WORK, PROVIDING TEMPORARY SERVICES AS REQUIRED.
6. USE EXISTING PIPING SYSTEM VALVES WHERE POSSIBLE TO ISOLATE SYSTEMS AND TO CAP EXISTING PIPING. REPLACE EXISTING VALVES WHERE NECESSARY WHEN EXISTING VALVES WILL NOT HOLD.
7. EXISTING EQUIPMENT BEING REMOVED AND DESIGNATED TO REMAIN THE PROPERTY OF THE OWNER SHALL BE DELIVERED UPON REMOVAL TO LOCATION DESIGNATED BY OWNER. ALL OTHER SYSTEM COMPONENTS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
8. REMOVE AND RELOCATE SMALL CONDUIT, CABLE, PIPE AND DUCT, PIPE AND CEILING HANGERS ETC. AS NECESSARY TO ACHIEVE A COMPLETE INSTALLED MECHANICAL SYSTEM AS SHOWN ON DRAWINGS.
9. PATCH ALL WALLS, FLOORS, ROOFS AND CEILINGS TO MATCH EXISTING OR NEW (IF APPLIED) FOR ALL OPENINGS CREATED BY DEMOLITION WORK OF EQUIPMENT AND HVAC SERVICE PENETRATIONS.
10. REPLACE AND/OR PATCH TO MATCH EXISTING; ANY EXISTING PIPE AND/OR DUCT INSULATION THAT IS TO REMAIN EXISTING AND IS DAMAGED OR REMOVED DURING CONSTRUCTION.
11. REFER TO ELECTRICAL PLANS FOR EXTENT OF DEMOLITION WORK RELATING TO WIRING FOR SUPPORT OF HVAC EQUIPMENT TO BE REMOVED.

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Job No. CENTRA24.00

Date March 28, 2025

Title MECHANICAL LEGEND AND SYMBOLS

Sheet No. **M-001**

Project Name
Autodesk Docs://Central Arkansas Water J7H Building Renovations/2024-196-Mech.rvt
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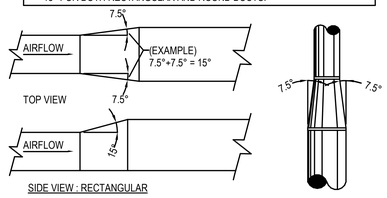
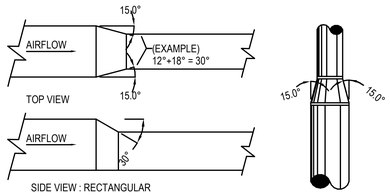
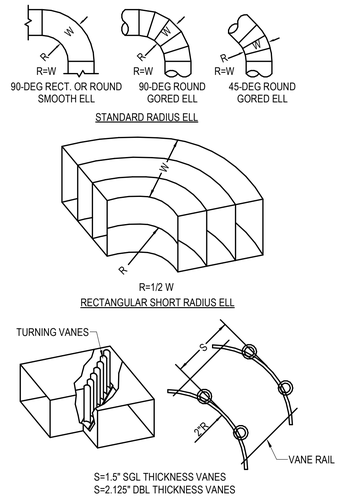
NOTES:
1. CONSTRUCT SO THAT SURFACE ANGLE OF EXPANSION DOES NOT EXCEED 15° FOR BOTH RECTANGULAR AND ROUND DUCTS.



NOTES:
1. CONSTRUCT SO THAT SURFACE ANGLE OF CONTRACTION DOES NOT EXCEED 30° FOR BOTH RECTANGULAR AND ROUND DUCTS.

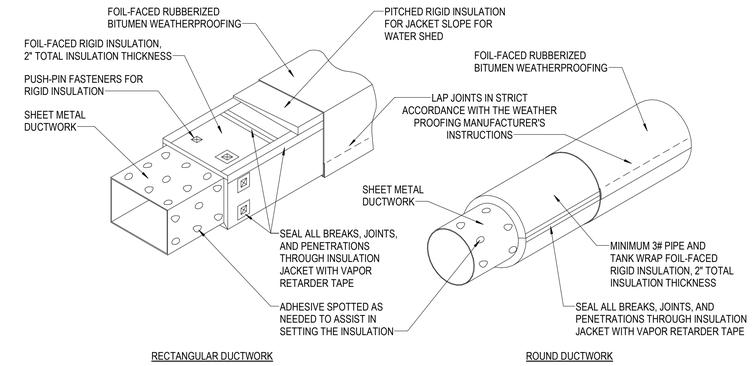


6 DUCT - EXPANSION AND CONTRACTION
NOT TO SCALE



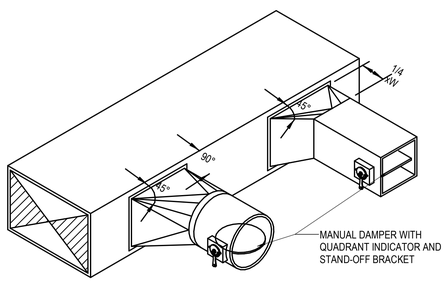
NOTES:
1. WHERE STANDARD RADIUS TURNS ARE NOT POSSIBLE, MITERED ELL'S WITH TURNING VANES SHALL BE PROVIDED FOR ALL CHANGES IN HORIZONTAL AND VERTICAL DUCT DIRECTION 45-DEGREEOR GREATER.
2. CONSTRUCT ELBOWS IN ACCORDANCE WITH SMACNA HVAC DUCTCONSTRUCTION STANDARDS - METAL AND FLEXIBLE.
3. AIR VELOCITIES 1200 FPM AND LESS:
   A. TURNING VANE ELBOW SHALL BE TURNING VANE ELBOW SHALL BE SINGLE WIDTH VANES FOR VANE LENGTHS UP TO 24"
   B. TURNING VANE ELBOW SHALL BE ASHRAE FITTING CR3-15 WITH DOUBLE WIDTH VANES FOR VANE LENGTHS OVER 24".
4. AIR VELOCITIES OVER 1200 FPM: TURNING VANE ELBOW SHALL BE ASHRAE FITTING CR3-15 WITH DOUBLE WIDTH VANES.
5. ROUND ELBOWS SHALL BE SMOOTH OR GORED. 90-DEGREE GORED ELL'S SHALL BE MINIMUM 5-PIECE AND 45-DEGREE GORED ELL'S SHALL BE MINIMUM 3-PIECE.
6. VANES SHALL BE WELDED TO THE VANE RAIL IN DUCT SYSTEMS WITH AIR VELOCITIES 3000 FPM AND HIGHER.
7. ELBOWS WITH MITERED THROATS/RADIUS HEELS AND ELBOWS WITH MITERED THROATS/CHAMFERED HEELS ARE NOT ACCEPTABLE.

2 DUCT FITTING - DUCT ELBOW SPEC
NOT TO SCALE

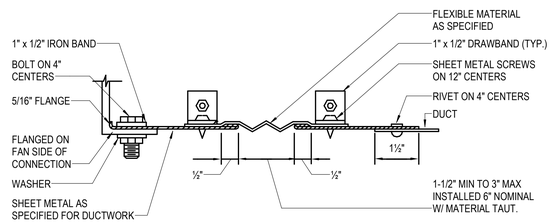


NOTES:
1. ALL SHEET METAL DUCT JOINTS AND SEAMS SHALL BE THOROUGHLY COATED WITH A U.L. 181 COMPLIANT SEALANT, SMACNA SEAL CLASS A, HARDCAST OR EQUAL.
2. COMBINATION VAPOR/WEATHER/UV BARRIER SHALL BE EQUAL TO POLYGUARD ALUMAGUARD RUBBERIZED BITUMEN FOIL FACED MEMBRANE WITH ASPHALT/ASPHALT LAP SEALS. INSTALL IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
3. WHERE THE DUCTWORK PENETRATED THE BUILDING ENVELOPE, THE EXTERIOR WEATHERPROOF INSULATION SHALL EXTEND MIN. 6" INTO THE BUILDING INTERIOR BEFORE TRANSITIONING TO THE INTERIOR DUCT INSULATION SPECIFICATION.
4. IN LIEU OF FOIL-FACED RUBBERIZED BITUMEN WEATHERPROOFING CLADDING, CONTRACTOR MAY PROVIDE ALUMINUM JACKETING WITH INTEGRAL MOISTURE BARRIER FILM EQUAL TO JOHNS MANSVILLE JM WITH STUCCO EMBOSSED OR 3/16" CORRUGATED FINISH. INSTALL IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. JACKET THICKNESS SHALL BE AS FOLLOWS:
   - UP TO 24" DIAMETER/WIDTH - 0.016"
   - BETWEEN 24" AND 36" DIAMETER/WIDTH - 0.020"
   - OVER 36" DIAMETER/WIDTH - 0.024"

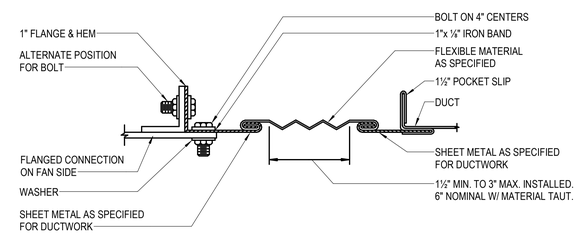
3 DUCT INSULATION - EXTERIOR DUCT INSULATION WEATHERPROOFING
NOT TO SCALE



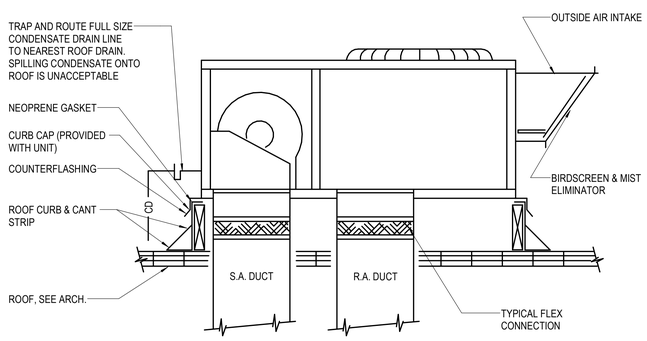
1 DUCT TAKEOFF
NOT TO SCALE



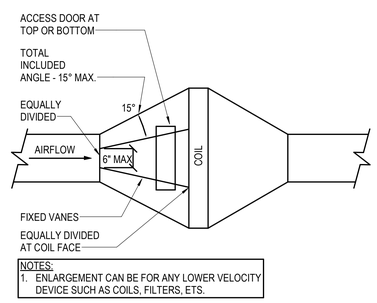
5 DUCT - FLEXIBLE CONNECTION ROUND
NOT TO SCALE



4 DUCT - FLEXIBLE CONNECTION RECTANGUALR
NOT TO SCALE

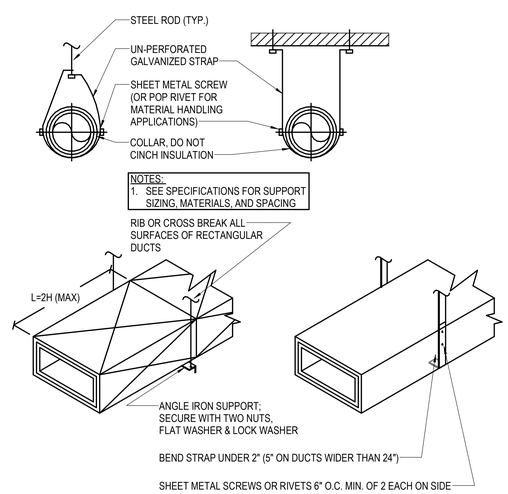


7 DUCT - ROOFTOP UNIT
NOT TO SCALE



NOTES:
1. ENLARGEMENT CAN BE FOR ANY LOWER VELOCITY DEVICE SUCH AS COILS, FILTERS, ETS.

8 DUCT - SUDDEN ENLARGEMENT
NOT TO SCALE



NOTES:
1. SEE SPECIFICATIONS FOR SUPPORT SIZING, MATERIALS, AND SPACING

9 DUCT ACCESSORY - DUCT HANGERS
NOT TO SCALE

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Job No. CENTRA24.00

Date March 28, 2025

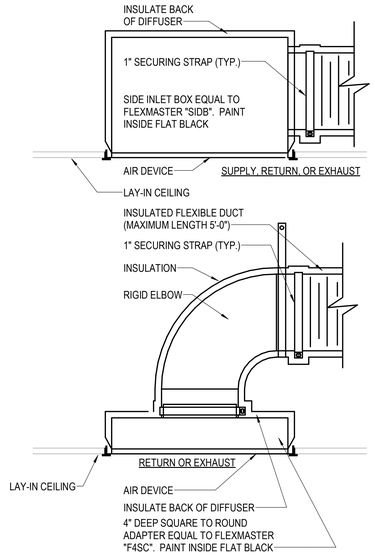
Title

MECHANICAL DETAILS

Sheet No.

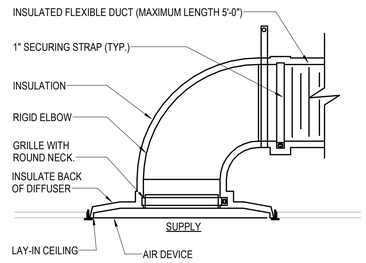
M-501

Project Name
Autodesk Docs://Central Arkansas Water JTH Building Renovations/2024-196-Mech.rvt
3/28/2025 8:38:08 AM

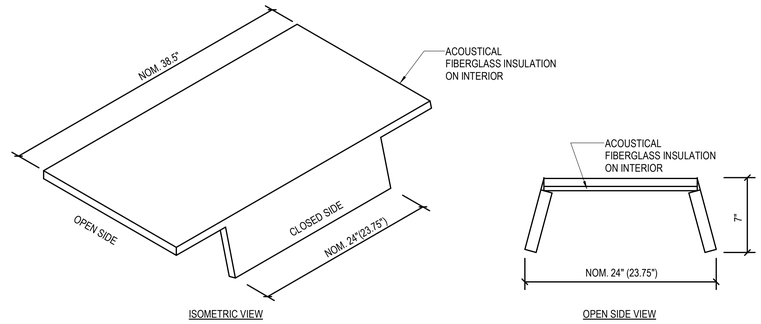


NOTES:
1. FLEX SHALL BE RUN AS STRAIGHT AS POSSIBLE AND CUT TO MINIMUM LENGTH. SWEEPING BENDS TO ACCOMMODATE EXCESS LENGTH ARE NOT ALLOWED. FLEX DUCT SHOULD NOT BE PERMITTED ON RETURN AIR OR EXHAUST AIR SYSTEMS.

CONICAL OR 45° TAKE-OFF FITTING WITH 1" MOUNTING FLANGE AND ADHESIVE COATED GASKET. ATTACH WITH SHEET METAL SCREWS.



1 AIR TERMINAL - AIR DEVICE CONNECTION
NOT TO SCALE



ISOMETRIC VIEW

OPEN SIDE VIEW

BASED ON PRICE INDUSTRIES MODEL "RAC"

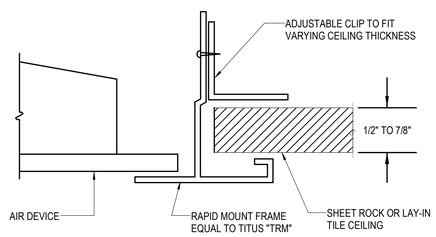
DYNAMIC INSERTION LOSS (dB) (1)							
63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
2	4	5	6	14	14	16	19

(1) PERFORMANCE BASED ON: AIR VOLUME: 500 CFM; VELOCITY: 125 FPM; PD: 0.01 IN. W.G.

NOISE REDUCTION (dB) (1)							
63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
8	10	11	12	20	20	22	25

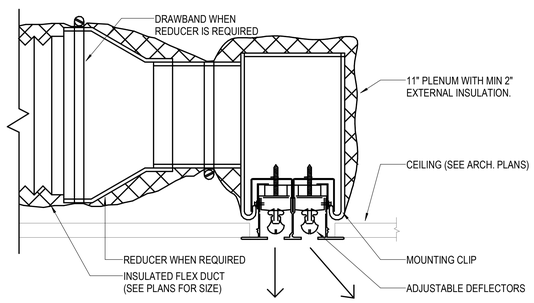
(1) PERFORMACE BASED ON: AIR VOLUME: 500 CFM; VELOCITY: 125 FPM; PD: 0.01 IN. W.G.

3 AIR TERMINAL - RETURN AIR CANOPY
NOT TO SCALE

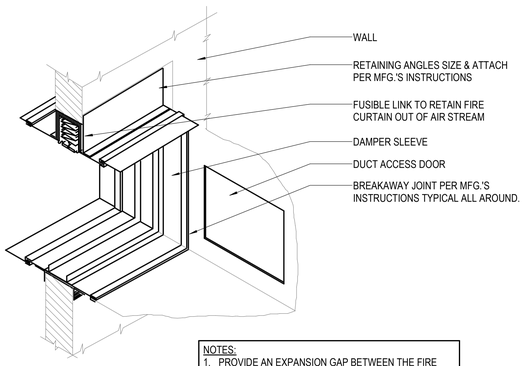


NOTES:
1. WHEN USED IN LAY-IN CEILINGS, CENTER TRIM FRAME IN CEILING TILE AND SUPPORT AIR DEVICE FROM STRUCTURE WITH WIRE.

2 AIR TERMINAL - GYPSUM TRIM FRAME
NOT TO SCALE

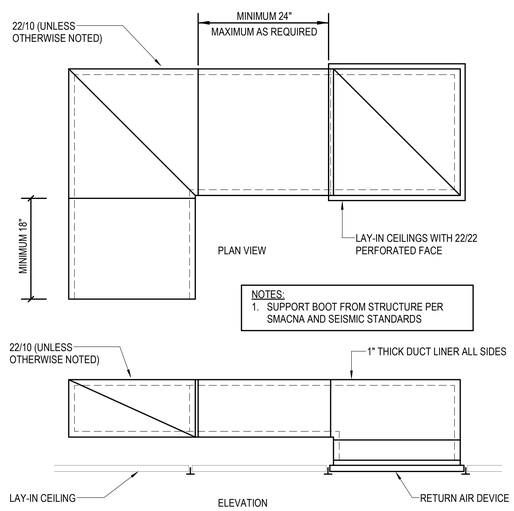


5 AIR TERMINAL - LINEAR SLOT - CEILING MOUNT
NOT TO SCALE



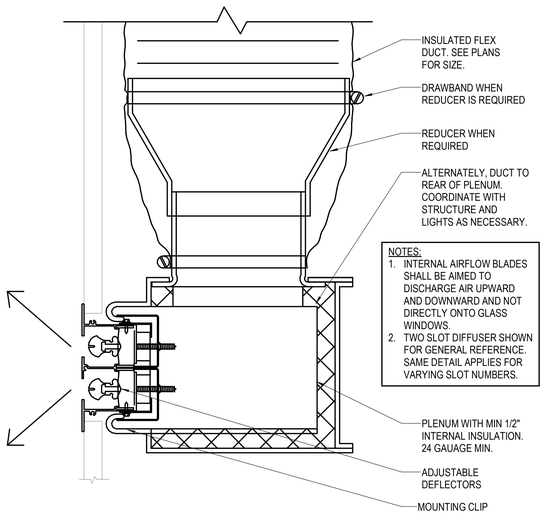
NOTES:
1. PROVIDE AN EXPANSION GAP BETWEEN THE FIRE DAMPER SLEEVE AND THE WALL PENETRATION SIZED PER MANUFACTURER'S INSTRUCTIONS FILL WITH FIRE CAULK.
2. RETAINING ANGLES MUST LAP STRUCTURAL OPENING 1" MINIMUM AND COVER CORNERS OF OPENING.

8 DAMPER - FIRE DAMPER
NOT TO SCALE



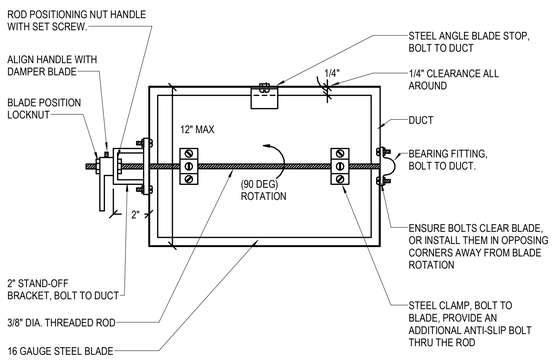
NOTES:
1. SUPPORT BOOT FROM STRUCTURE PER SMACNA AND SEISMIC STANDARDS

4 AIR TERMINAL - RETURN AIR TRANSFER BOOT
NOT TO SCALE



NOTES:
1. INTERNAL AIRFLOW BLADES SHALL BE AIMED TO DISCHARGE AIR UPWARD AND DOWNWARD AND NOT DIRECTLY ONTO GLASS WINDOWS.
2. TWO SLOT DIFFUSER SHOWN FOR GENERAL REFERENCE. SAME DETAIL APPLIES FOR VARYING SLOT NUMBERS.

6 AIR TERMINAL - LINEAR SLOT - SIDEWALL MOUNT
NOT TO SCALE



NOTES:
1. DAMPERS FOR ROUND DUCTS SHALL BE SIMILAR TO THE DAMPER SHOWN ABOVE.
2. ENSURE THAT FULL 90° DAMPER BLADE MOVEMENT IS UNOBSTRUCTED.
3. FOR DUCT HEIGHTS MORE THAN 12", PROVIDE FACTORY-FABRICATED OPPOSED BLADE DAMPERS.

7 DAMPER - DUCT MANUAL SINGLE BLADE BALANCING DAMPER
NOT TO SCALE

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Date March 28, 2025

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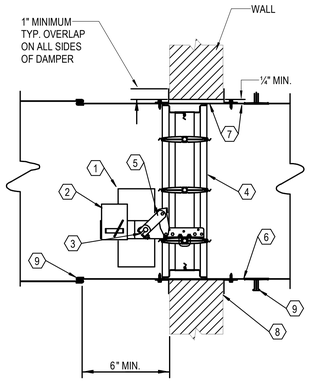
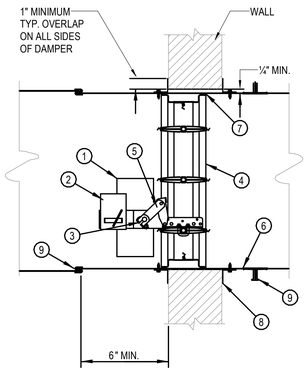
Sheet No. **M-502**

Project Name
Autodesk Docs://Central Arkansas Water J7H Building Renovations/2024-196-Mech.rvt
3/28/2025 8:38:14 AM



NOTES:
1. ACTUATOR (LOCATION MAY VARY). DAMPER MAY BE SUPPLIED WITHOUT ACTUATOR INSTALLED. UL LISTED FIRE DAMPER ACTUATORS MAY BE FIELD INSTALLED IF PROPERLY LABELED (SEE ACTUATOR INSTALLATION INSTRUCTIONS FOR FIELD MOUNTING OF DAMPER ACTUATORS).
2. FIRESTAT OR SP100 (WHERE REQUIRED).
3. AUXILIARY OPERATING JACK SHAFT.
4. FIRE/SMOKE DAMPER WITH AIRFOIL BLADES.
5. OVER CENTER LOCK.
6. MINIMUM 16 GA. SLEEVE (UP TO 36Wx24H), MINIMUM 14 GA. FOR LARGER.
7. CAULKING MATERIAL (MAY BE ON EITHER SIDE OF DAMPER FRAME).
8. PFMA OR CONVENTIONAL MOUNTING ANGLES.
9. S-JOINT/DUCT MATE, SLEEVE TO DUCT.

1 DAMPER - SMOKE DAMPER
NOT TO SCALE



NOTES:
1. ACTUATOR (LOCATION MAY VARY). DAMPER MAY BE SUPPLIED WITHOUT ACTUATOR INSTALLED. UL LISTED FIRE DAMPER ACTUATORS MAY BE FIELD INSTALLED IF PROPERLY LABELED (SEE ACTUATOR INSTALLATION INSTRUCTIONS FOR FIELD MOUNTING OF DAMPER ACTUATORS).
2. FIRESTAT OR SP100 (WHERE REQUIRED).
3. AUXILIARY OPERATING JACK SHAFT.
4. FIRE/SMOKE DAMPER WITH AIRFOIL BLADES.
5. OVER CENTER LOCK.
6. MINIMUM 16 GA. SLEEVE (UP TO 36Wx24H), MINIMUM 14 GA. FOR LARGER.
7. CAULKING MATERIAL (MAY BE ON EITHER SIDE OF DAMPER FRAME).
8. PFMA OR CONVENTIONAL MOUNTING ANGLES.
9. S-JOINT/DUCT MATE, SLEEVE TO DUCT.

2 DAMPER - VERTICAL SMOKE/FIRE
NOT TO SCALE

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Sheet No.
M-503

Project Name
Autodesk Docs://Central Arkansas Water JTH Building Renovations/2024-196-Mech.rvt
3/28/2025 8:38:20 AM

VAV TERMINAL BOXES (W/HW REHEAT)

MARK	SERVED BY	THERMOSTAT LOCATION	INLET SIZE	CLG. MAX. CFM	CLG. MIN. CFM	INLET S.P.	HEATING COIL									*MANUF'R	*MODEL	NOTES
							FLUID	ROWS	CAP. (MBH)	GPM	WPD (FT H20)	EAT (F)	LAT (F)	EWT (F)	LWT (F)			
VAV-101	AHU-1	123 OFFICE	8	425			WATER	2-RH		3.7		50	90	180				
VAV-102	AHU-1	127 CONF	6	175			WATER	2-RH		1.6		50	90	180				
VAV-103	AHU-1	120 OFFICE	8	225			WATER	2-RH		2.0		50	90	180				
VAV-104	AHU-1	121 DIRECTOR	6	175			WATER	2-RH		1.6		50	90	180				
VAV-105	AHU-1	101A CORRIDOR	10	675			WATER	2-RH		6.5		50	90	180				
VAV-106	AHU-1	110 OFFICE	6	175			WATER	2-RH		1.6		50	90	180				
VAV-107	AHU-1	107 FIELD	10	475			WATER	2-RH		4.2		50	90	180				
VAV-108	AHU-1	108 OFFICE	10	475			WATER	2-RH		4.2		50	90	180				
VAV-109A	AHU-1	102 CUSTOMER SERVICE	10	650			WATER	2-RH		5.7		50	90	180				
VAV-109B	AHU-1	102 CUSTOMER SERVICE	14	1,675			WATER	2-RH		14.5		50	90	180				
VAV-110	AHU-1	106 DIRECTOR	8	225			WATER	2-RH		2.0		50	90	180				
VAV-111	AHU-1	104 OFFICE	10	300			WATER	2-RH		2.6		50	90	180				
VAV-112	AHU-1	103 CUST. MTG. ROOM	8	225			WATER	2-RH		2.0		50	90	180				
VAV-113	AHU-1	101 LOBBY	10	700			WATER	2-RH		6.0		50	90	180				
VAV-114	AHU-1	126 OFFICE	10	800			WATER	2-RH		7.0		50	90	180				
VAV-201	AHU-2	222 OFFICE	8	300			WATER	2-RH		2.6		50	90	180				
VAV-202	AHU-2	224 CONFERENCE	10	475			WATER	2-RH		4.2		50	90	180				
VAV-203	AHU-2	221 DIRECTOR	8	325			WATER	2-RH		2.9		50	90	180				
VAV-204	AHU-2	219 OFFICE	10	475			WATER	2-RH		4.2		50	90	180				
VAV-205	AHU-2	209 FINANCE	10	750			WATER	2-RH		6.5		50	90	180				
VAV-206	AHU-2	217 ADMIN. ASST.	6	150			WATER	2-RH		1.3		50	90	180				
VAV-207	AHU-2	216 OFFICE	8	275			WATER	2-RH		2.4		50	90	180				
VAV-208	AHU-2	214 OFFICE	10	750			WATER	2-RH		6.5		50	90	180				
VAV-209	AHU-2	206 GENERAL COUNSEL	10	550			WATER	2-RH		4.8		50	90	180				
VAV-210	AHU-2	210 OFFICE	6	150			WATER	2-RH		1.3		50	90	180				
VAV-211	AHU-2	207 CONFERENCE	8	375			WATER	2-RH		3.3		50	90	180				
VAV-212	AHU-2	205 BLAKE'S OFFICE	8	375			WATER	2-RH		3.3		50	90	180				
VAV-213	AHU-2	204 TAD'S OFFICE	12	1,025			WATER	2-RH		8.9		50	90	180				
VAV-214	AHU-2	203 JO'S OFFICE	10	800			WATER	2-RH		7.0		50	90	180				
VAV-215	AHU-2	202 OFFICE	8	250			WATER	2-RH		2.2		50	90	180				
VAV-216	AHU-2	201A CORRIDOR	10	500			WATER	2-RH		4.4		50	90	180				
VAV-217	AHU-2	232 BOARDROOM	12	1,400			WATER	2-RH		12.1		50	90	180				
VAV-301	AHU-4	318 OFFICE	10	475			WATER	2-RH		4.2		50	90	180				
VAV-302	AHU-4	319 OFFICE	10	650			WATER	2-RH		5.7		50	90	180				
VAV-303	AHU-4	316 OFFICE	8	250			WATER	2-RH		2.2		50	90	180				
VAV-304	AHU-4	314 MERCH	10	575			WATER	2-RH		5.0		50	90	180				
VAV-305	AHU-4	305 HUDDLE	10	475			WATER	2-RH		4.2		50	90	180				
VAV-306	AHU-4	308 SPECIAL PROJ.	10	525			WATER	2-RH		4.6		50	90	180				
VAV-307	AHU-4	312 DIRECTOR EHS	8	250			WATER	2-RH		2.2		50	90	180				
VAV-308	AHU-4	310 OFFICE	10	450			WATER	2-RH		3.9		50	90	180				
VAV-309A	AHU-4	302 TRAINING ROOM	14	1,350			WATER	2-RH		11.7		50	90	180				
VAV-309B	AHU-4	302 TRAINING ROOM	14	1,575			WATER	2-RH		13.7		50	90	180				
VAV-310	AHU-4	300 LOBBY	14	1,400			WATER	2-RH		12.1		50	90	180				
VAV-401	AHU-5	426 OFFICE	10	700			WATER	2-RH		5.7		50	90	180				
VAV-402	AHU-5	430 BILLING	10	800			WATER	2-RH		7.0		50	90	180				
VAV-403	AHU-5	425 DIRECTOR	8	375			WATER	2-RH		3.3		50	90	180				
VAV-404	AHU-5	423 WORK ROOM	12	850			WATER	2-RH		7.4		50	90	180				
VAV-405A	AHU-5	419 INFO. SERVICES	12	950			WATER	2-RH		8.3		50	90	180				
VAV-405B	AHU-5	419 INFO. SERVICES	10	650			WATER	2-RH		5.7		50	90	180				
VAV-406	AHU-5	417 MANAGER	8	175			WATER	2-RH		1.6		50	90	180				
VAV-407	AHU-5	418 CONFERENCE	10	275			WATER	2-RH		2.4		50	90	180				
VAV-408	AHU-5	416 GIS	10	600			WATER	2-RH		5.2		50	90	180				
VAV-409	AHU-5	413 OFFICE	12	900			WATER	2-RH		7.8		50	90	180				
VAV-410	AHU-5	410 OFFICE	12	900			WATER	2-RH		7.8		50	90	180				
VAV-411	AHU-5	405 OFFICE	10	500			WATER	2-RH		4.4		50	90	180				
VAV-412	AHU-5	409 DIRECTOR	10	550			WATER	2-RH		4.8		50	90	180				
VAV-413	AHU-5	406 OFFICE	12	900			WATER	2-RH		7.8		50	90	180				
VAV-414	AHU-5	402 BREAK	14	1,475			WATER	2-RH		12.8		50	90	180				
VAV-415	AHU-5	439 ENGINEERING	10	750			WATER	2-RH		6.5		50	90	180				

NOTES:
* OR APPROVED EQUAL
1. 22-GAUGE DOUBLE WALL CASING CONSTRUCTION WITH 1/2" FIBERGLASS INSULATION. NO FIBER EXPOSED TO AIR STREAM.
2. DEVICE TO BE RIGHT-HANDED IN FOR MAINTENANCE ACCESSIBILITY BASED ON EQUIPMENT LOCATION ON FLOOR PLANS.

AIR HANDLING UNIT

MARK	COOLING CAPACITY			CW COIL DATA		HEATING CAPACITY			HW COIL DATA		SUPPLY FAN			ELECTRICAL DATA			*MANUF'R	*OUTDOOR UNIT MODEL	NOTES
	CAPACITY (MBH)	AMBIENT (DB/WB) °F	LAT (COIL) °F	GPM	EWT/LWT °F/°F	CAPACITY (MBH)	EAT (DB °F)	LAT (COIL) (DB °F)	GPM	EWT/LWT °F/°F	NOM. CFM	HP	ESP (IN. WC)	V/PH	MCA	MOCP			
AHU-1	374.7	98.7 / 77.1	52.0							180.0 / 160.0	8,832		2.0	208/3					
AHU-2	407.7	98.7 / 77.1	52.0							180.0 / 160.0	10,586		2.0	208/3					
AHU-3	110.4	98.7 / 77.1	52.0							180.0 / 160.0	2,631		2.0	208/3					
AHU-4	267.5	98.7 / 77.1	52.0							180.0 / 160.0	6,577		2.0	208/3					
AHU-5	458.3	98.7 / 77.1	52.0							180.0 / 160.0	12,530		2.0	208/3					

NOTES:
*OR APPROVED EQUAL
1. PROVIDE CONDENSATE DRAINS TO OPENINGS PROVIDED BY PLUMBING DIVISION. TRAP CONDENSATE AT COILS PER MANUFACTURER'S RECOMMENDATIONS USING TEES FOR CLEANOUTS.
"6. PROVIDE COOLING COLS WITH INTERMEDIATE DRAIN PANS, WITH NO COIL EXCEEDING 48" IN HEIGHT WITHOUT A DRAIN PAN BENEATH IT. (ALTERNATE DRAIN SYSTEMS FOR PREVENTING MOISTURE CARRYOVER ARE ACCEPTABLE
IF APPROVED.)" ?
2. PROVIDE ELECTRICAL DISCONNECT SWITCH. ("OR DISCONNECT SWITCH PROVIDED BY ELECTRICAL?")
"4. PROVIDE MAXIMUM 12 FINS PER INCH ON COOLING COILS; COILS MUST MEET ARI AND BE ARI CERTIFIED."?
"5. PROVIDE VFD CONTROLLER FOR SUPPLY FAN MOTOR."?
2. INSTALLED BY MANUFACTURER CERTIFIED CONTRACTOR.
3. PROVIDE ALL ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
4. PROVIDE ALL PIPE, FITTINGS, AND CONTROL DEVICES REQUIRED.

AIR DEVICE

KEY: NO. IF MORE THAN ONE. — 4; MARK — A; NECK — 8; CFM — 210

MARK	DESCRIPTION	SIZE	MOUNTING	REF. PRODUCT	MATERIAL	FINISH	NOTES
A	SQUARE PLAQUE	24X24	GYP. CLG.	PRICE SPD	ALUMINUM	WHITE	1
B	SQUARE PLAQUE	24X24	LAY-IN	PRICE SPD	ALUMINUM	WHITE	1
C	LAMINAR FLOW DIFFUSER	24X24	SURFACE MOUNT	PRICE LFD	ALUMINUM	WHITE	1
1	EGGCRATE GRILLE	24X24	GYP. CLG.	PRICE 80	ALUMINUM	WHITE	2, 3
2	EGGCRATE GRILLE	24X24	LAY-IN	PRICE 80	ALUMINUM	WHITE	NA
3	EGGCRATE GRILLE	12X12	GYP. CLG.	PRICE 80	ALUMINUM	WHITE	2, 3

NOTES:
* OR APPROVED EQUAL
1. PROVIDE R6 INSULATED BACKPANS.
2. PROVIDE INTERNALLY LINED SQUARE SUPPLY PLENUM. DUCT COLLAR TO MATCH NECK SIZE INDICATED ON AIR DEVICE TAG.
3. PROVIDE PLASTER FRAME.

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DESIGN DEVELOPMENT

No.	Issue	Date

Job No. CENTRA24.00
Date March 28, 2025
Title MECHANICAL SCHEDULES
Sheet No. M-601

Project Name
Autodesk Docs://Central Arkansas Water JTH Building Renovations/2024-196-Mech.rvt
3/28/2025 8:38:25 AM

CHILLER - AIR COOLED

MARK	TYPE	TOTAL CAPACITY (TONS)	EVAPORATOR DATA				COMPRESSORS	AMB. TEMP. (°F)	ELECTRICAL DATA					REF	UNIT EER	WEIGHT PER MODULE (LBS.)	REMARKS
			GPM	WATER TEMP. (°F)		MAX PRESSURE DROP (FT.)			FLA	MCA	MOCP	VOLTS	PH				
				ENTERING	LEAVING												
CH-1							2	95									

NOTES:
1. XXXXX
2. XXXXX
3. XXXXX
4. XXXXX

PUMPS

MARK	SERVES	LOCATION	FLUID	GPM	TOTAL HEAD (FT.)	IMPELLER DIA. (IN.)	ELECTRICAL DATA				MIN. EFFICIENCY	PIPE SIZE		REMARKS
							RPM	HP	VOLTS	PH		SUCTION	DISCHARGE	
CHP-1	CHILLED WATER	131 MECH	WATER											
CHP-2	CHILLED WATER	131 MECH	WATER											
HWP-1	HOT WATER	131 MECH	WATER											
HWP-2	HOT WATER	131 MECH	WATER											

NOTES:
1. BASE-MOUNTED END SUCTION.
2. PROVIDE SUCTION DIFFUSER.

EXHAUST FAN

MARK	SERVES	TYPE	DRIVE	FAN DATA			MOTOR DATA			WEIGHT (LBS.)	REMARKS
				CFM	ESP	RPM	HP	VOLTS	⇕		
EF-1		CENTRIFUGAL WALL	DIRECT		0.5						
EF-2		CENTRIFUGAL WALL	DIRECT		0.5						

NOTES:
1. PROVIDE ELECTRICAL DISCONNECT.
2. PROVIDE BACKDRAFT DAMPER.

MINI-SPLIT

MARK	INDOOR UNIT					OUTDOOR UNIT				ELECTRICAL			REMARKS
	TYPE	SERVES	FAN CFM	*MANUF'R	*MODEL	COOLING COIL				V / PH	MCA	MOCP	
						TOT.CAP. (BUTH)	ENTERING AIR DB/WB	LEAVING AIR DB/WB	SEER2				
MS-1													
MS-2													
MS-3													
MS-4													

NOTES:
1. XXXXX
2. XXXXX
3. XXXXX
4. XXXXX

COMPUTER ROOM AIR CONDITIONER (CRAC)

MARK	INDOOR UNIT					OUTDOOR UNIT				ELECTRICAL			REMARKS
	TYPE	SERVES	FAN CFM	*MANUF'R	*MODEL	COOLING COIL				V / PH	MCA	MOCP	
						TOT.CAP. (BUTH)	ENTERING AIR DB/WB	LEAVING AIR DB/WB	SEER2				
CRAC-1													
CRAC-2													

NOTES:
1. XXXXX
2. XXXXX
3. XXXXX
4. XXXXX

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Job No. CENTRA24.00

Date March 28, 2025

Title

MECHANICAL SCHEDULES

Sheet No.

M-602

Project Name
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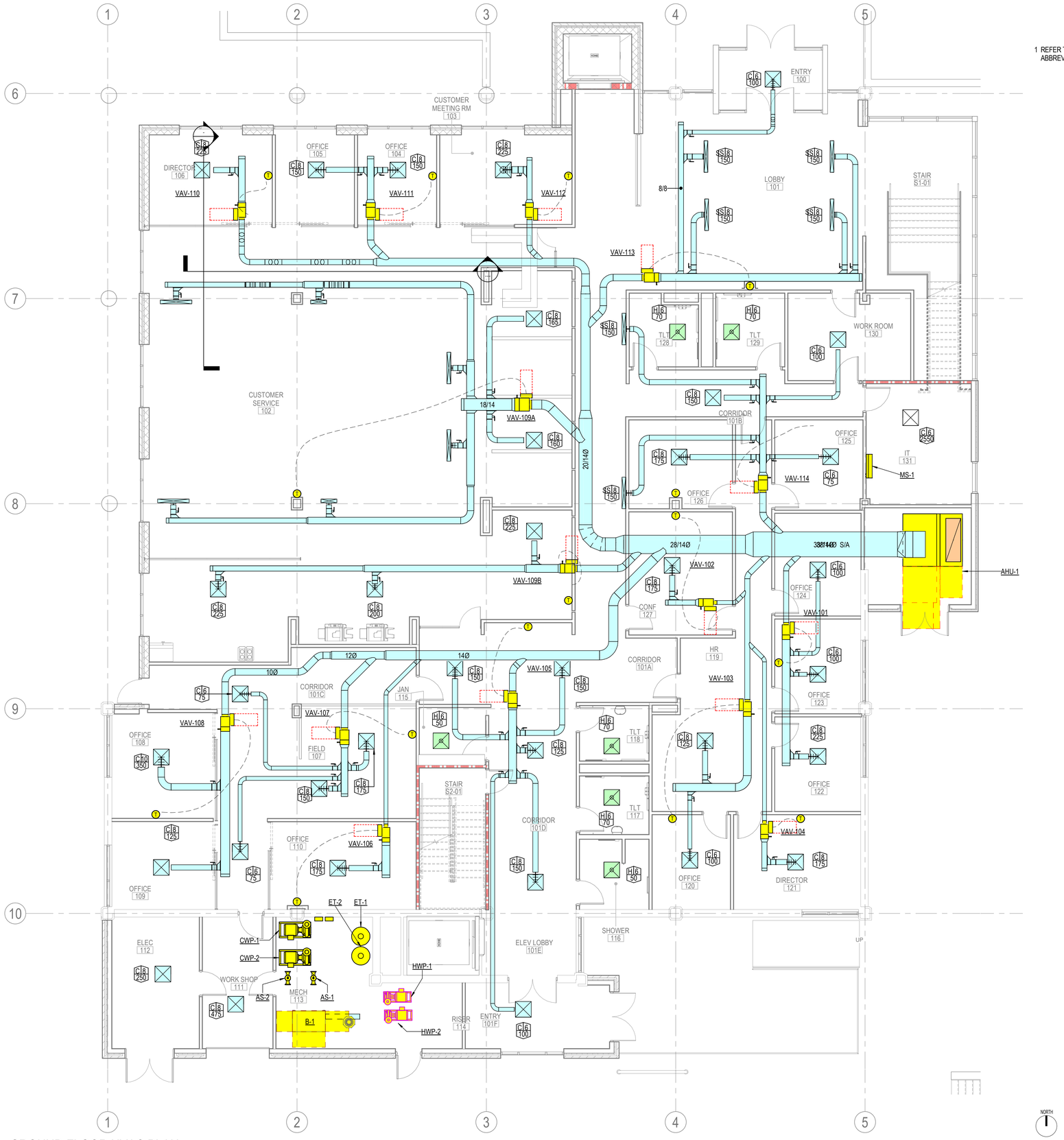
3/28/2025 8:38:31 AM



1 GROUND FLOOR HVAC PLAN
3/16" = 1'-0"

GENERAL NOTES

1 REFER TO SHEET M-001 FOR MECHANICAL NOTES, ABBREVIATIONS, AND LEGEND SYMBOLS.

KEYED NOTES

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No.	Issue	Date

Job No. CENTRA24.00

Date March 28, 2025

Title

GROUND FLOOR HVAC PLAN

Sheet No.

MH101

Project Name
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3/28/2025 8:38:40 AM

GENERAL NOTES

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KEYED NOTES

1 SECOND FLOOR HVAC PLAN
3/16" = 1'-0"

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Job No. CENTRA24.00

Date March 28, 2025

Title

SECOND FLOOR HVAC PLAN

Sheet No.

MH102

Project Name
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3/28/2025 8:37:56 AM

1 THIRD FLOOR HVAC PLAN
3/16" = 1'-0"

GENERAL NOTES

1 REFER TO SHEET M-001 FOR MECHANICAL NOTES, ABBREVIATIONS, AND LEGEND SYMBOLS.

KEYED NOTES

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No	Issue	Date
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Job No. CENTRA24.00

Date March 28, 2025

Title THIRD FLOOR HVAC PLAN

Sheet No. **MH103**

Project Name
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3/28/2025 8:38:49 AM

1 FOURTH FLOOR HVAC PLAN
3/16" = 1'-0"

GENERAL NOTES

1 REFER TO SHEET M-001 FOR MECHANICAL NOTES, ABBREVIATIONS, AND LEGEND SYMBOLS.

KEYED NOTES

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Job No. CENTRA24.00

Date March 28, 2025

Title FOURTH FLOOR HVAC PLAN

Sheet No. **MH104**

Project Name
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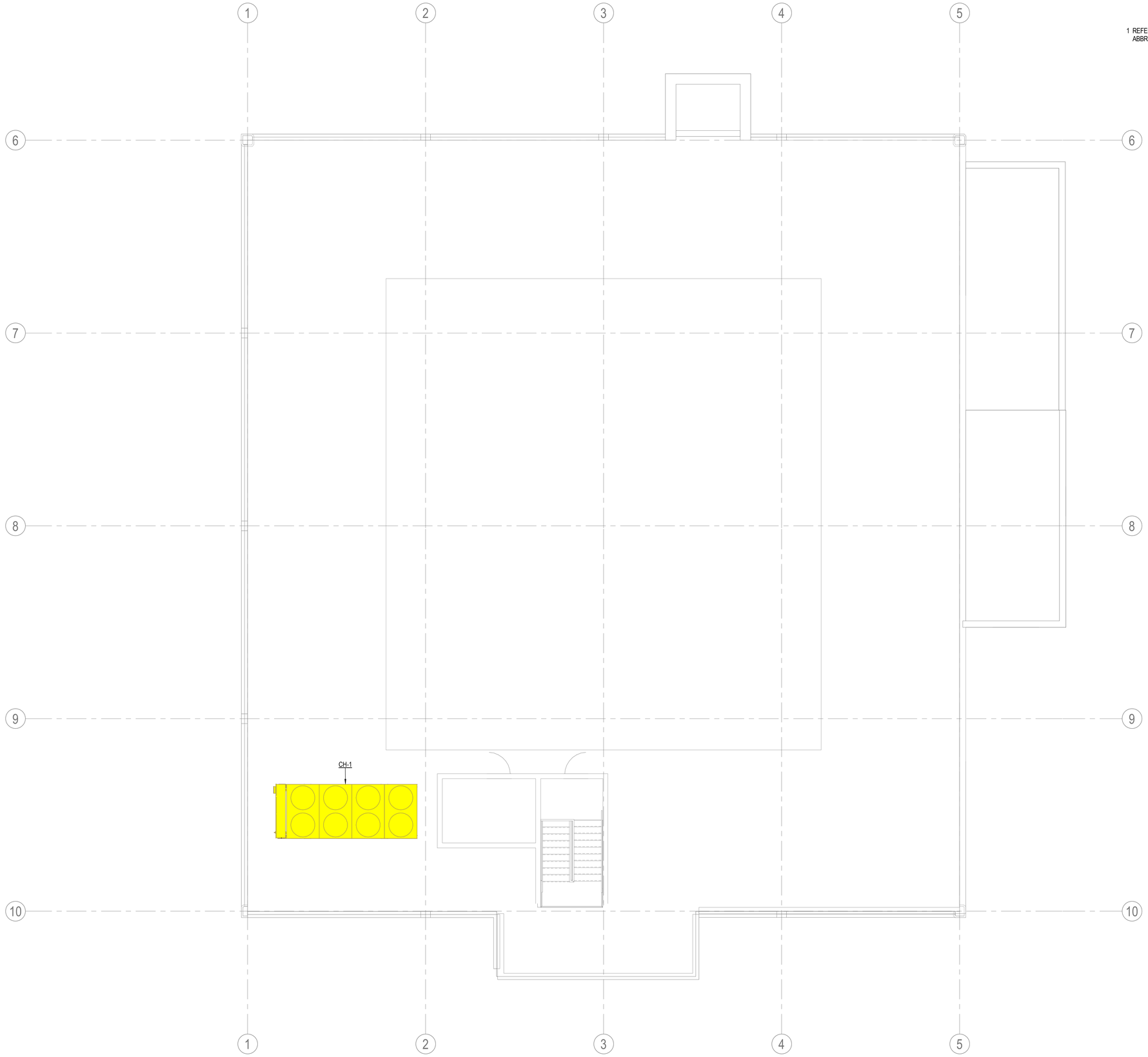

1 ROOF MECHANICAL PLAN
3/16" = 1'-0"

GENERAL NOTES

1 REFER TO SHEET M-001 FOR MECHANICAL NOTES, ABBREVIATIONS, AND LEGEND SYMBOLS.

KEYED NOTES

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Job No. CENTRA24.00

Date March 28, 2025

Title ROOF MECHANICAL PLAN

Sheet No. **MH105**

Project Name
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3/28/2025 8:39:04 AM

1 FIRST FLOOR MECHANICAL PIPING PLAN
3/16" = 1'-0"

GENERAL NOTES

1 REFER TO SHEET M-001 FOR MECHANICAL NOTES, ABBREVIATIONS, AND LEGEND SYMBOLS.

KEYED NOTES

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No.	Issue	Date

Job No. CENTRA24.00

Date March 28, 2025

Title GROUND FLOOR MECHANICAL PIPING PLAN

Sheet No. **MP101**

Project Name
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3/28/2025 8:39:13 AM

1 SECOND FLOOR MECHANICAL PIPING PLAN
3/16" = 1'-0"

GENERAL NOTES

1 REFER TO SHEET M-001 FOR MECHANICAL NOTES, ABBREVIATIONS, AND LEGEND SYMBOLS.

KEYED NOTES

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Job No. CENTRA24.00

Date March 28, 2025

Title SECOND FLOOR MECHANICAL PIPING PLAN

Sheet No. **MP102**

Project Norma
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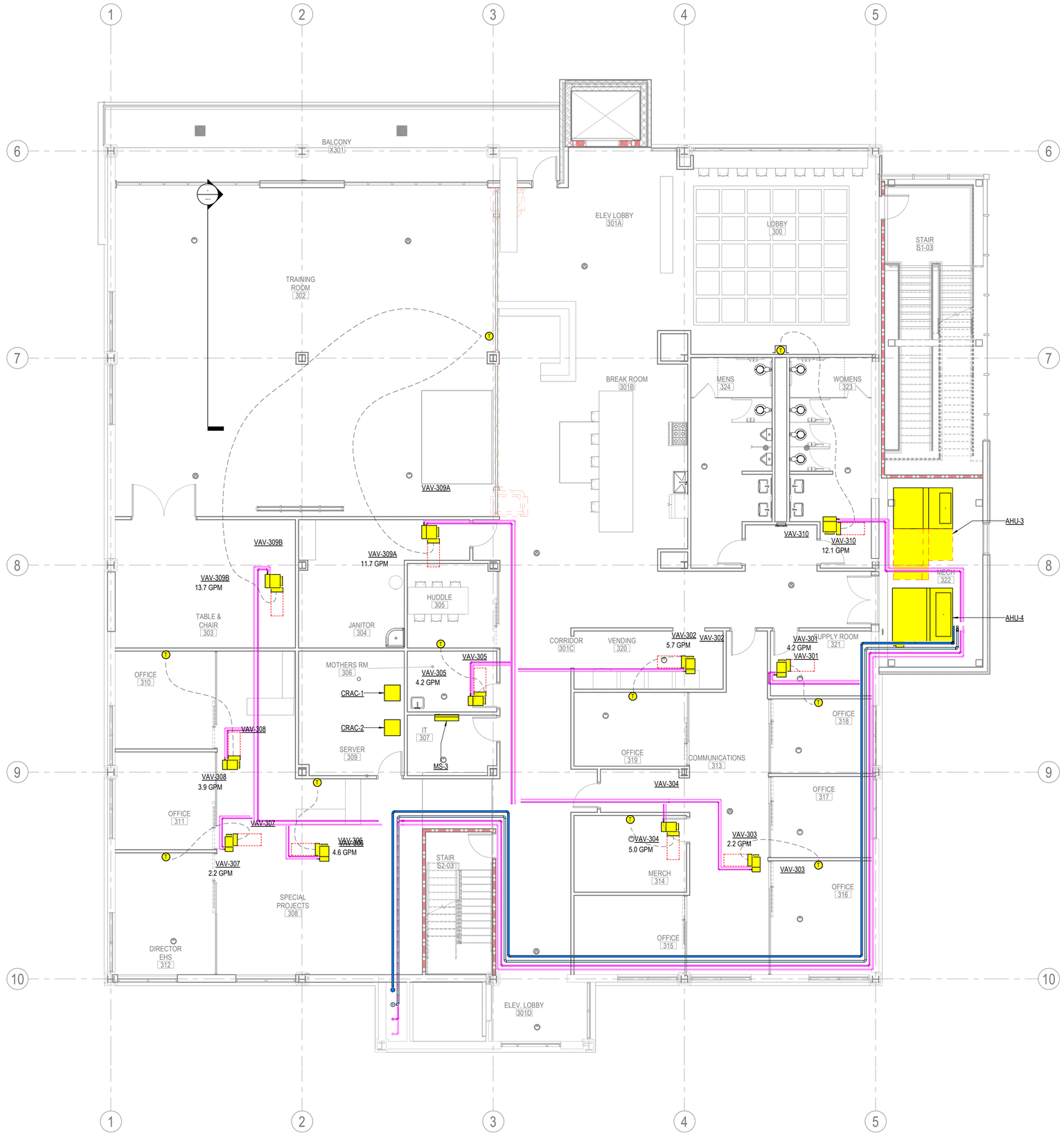
3/28/2025 8:33:22 AM



1 THIRD FLOOR MECHANICAL PIPING PLAN
3/16" = 1'-0"

GENERAL NOTES

1 REFER TO SHEET M-001 FOR MECHANICAL NOTES, ABBREVIATIONS, AND LEGEND SYMBOLS.

KEYED NOTES

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DESIGN DEVELOPMENT

No	Issue	Date
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Job No. CENTRA24.00

Date March 28, 2025

Title THIRD FLOOR MECHANICAL PIPING PLAN

Sheet No. **MP103**

Project Name
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1 FOURTH FLOOR MECHANICAL PIPING PLAN
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GENERAL NOTES

1 REFER TO SHEET M-001 FOR MECHANICAL NOTES, ABBREVIATIONS, AND LEGEND SYMBOLS.

KEYED NOTES

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DESIGN DEVELOPMENT

No.	Issue	Date

Job No. CENTRA24.00

Date March 28, 2025

Title FOURTH FLOOR MECHANICAL PIPING PLAN

Sheet No. **MP104**

Project Name:
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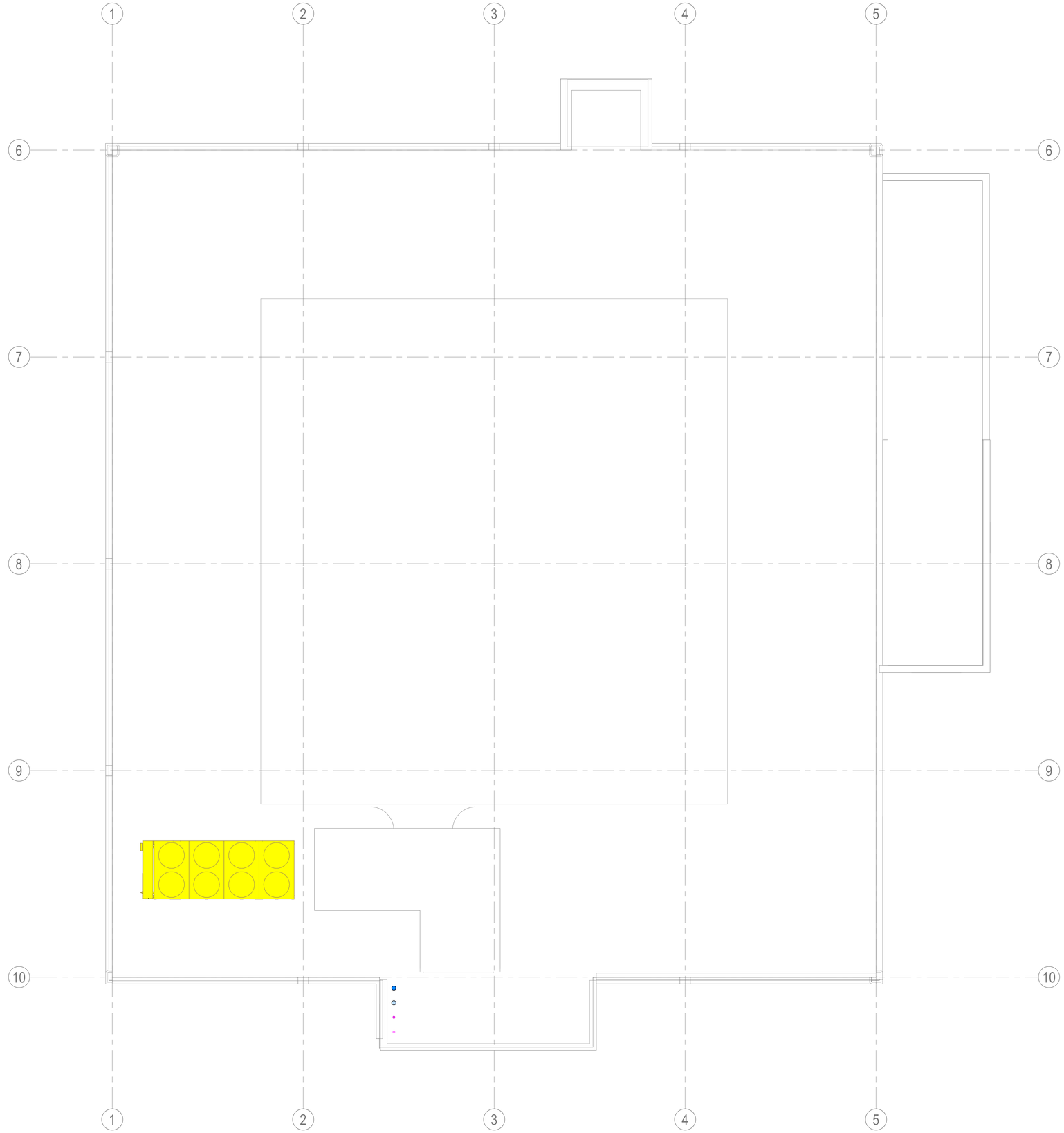

1 ROOF MECHANICAL PIPING PLAN
3/16" = 1'-0"

GENERAL NOTES

1 REFER TO SHEET M-001 FOR MECHANICAL NOTES, ABBREVIATIONS, AND LEGEND SYMBOLS.

KEYED NOTES

CENTRAL ARKANSAS WATER

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Seal

NOT FOR CONSTRUCTION

DESIGN DEVELOPMENT

No.	Issue	Date

Job No. CENTRA24.00

Date March 28, 2025

Title ROOF MECHANICAL PIPING PLAN

Sheet No. **MP105**

Project Name
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ABBREVIATIONS

AC	AIR COMPRESSOR	HS	HOSE STATION
ACU	AIR CONDITIONING UNIT	HT	HEIGHT
AD	AREA DRAIN	HTG	HEATING
AFC	ABOVE FINISH CEILING	HVAC	HEATING, VENTILATION, AIR COND.
AFF	ABOVE FINISH FLOOR	HW	HOT WATER
AFG	ABOVE FINISHED GRADE	HWG	HOT WATER GENERATOR
AHJ	AUTHORITY HAVING JURISDICTION	HWR	HOT WATER RETURN
APPROX	APPROXIMATE	HWST	HOT WATER STORAGE TANK
ARCH	ARCHITECT/ARCHITECTURAL	ID	INSIDE DIAMETER/DIMENSION
ARD	AUXILIARY ROOF DRAIN	KW	KILOWATTS
BFF	BELOW FINISH FLOOR	LAV	LAVATORY
BLDG	BUILDING	LF	LINEAR FEET
BTU	BRITISH THERMAL UNITS	LPG	LIQUID PETROLEUM GAS
BTUH	BRITISH THERMAL UNITS/HOUR	LWT	LEAVING WATER TEMPERATURE
CAP	CAPACITY	MAX	MAXIMUM
CB	CATCH BASIN	MBH	THOUSAND BTU/PER HOUR
CD	CONDENSATE DRAIN	MDL	MODEL
CFH	CUBIC FEET/HOUR	MECH	MECHANICAL
CFM	CUBIC FEET/MINUTE	MFR	MANUFACTURER
CI	CAST IRON	MH	MANHOLE
CLG	CEILING	MIN	MINIMUM
CO	CLEAN OUT	MISC	MISCELLANEOUS
COL	COLUMN	MTD	MOUNTED
CONC	CONCRETE	NA	NOT APPLICABLE
CONN	CONNECT	NFPA	NATIONAL FIRE PROTECTION ASSO.
CONST	CONSTRUCTION	NTS	NOT TO SCALE
CONT	CONTINUE	OA	OUTSIDE AIR
COTG	CLEAN OUT TO GRADE	OD	OUTSIDE DIAMETER/DIMENSION
CP	CIRCULATING PUMP	PD	PRESSURE DROP
CR	CONDENSATE RETURN	PLBG	PLUMBING
CW	COLD WATER	PRESS	PRESSURE
DCOTG	DOUBLE CLEANOUT TO GRADE	PRV	PRESSURE REDUCING VALVE
DD	DESICCANT DEHUMIDIFIER	PSI	POUNDS PER SQUARE INCH
DEG(°)	DEGREE	RA	RETURN AIR
DEMO	DEMOLITION	RD	ROOF DRAIN
DF	DRINKING FOUNTAIN	REF	REFERENCE
DIA	DIAMETER	REQD	REQUIRED
DS	DOWN SPOUT	REV	REVISION, REVISED
DTL	DETAIL	RM	ROOM
EFF	EFFICIENT	RPM	REVOLUTIONS PER MINUTE
ELEC	ELECTRICAL	SC	STEAM CONDENSATE
ELEV	ELEVATION	SCH	SCHEDULE
EQ	EQUAL	SECT	SECTION
EQUIP	EQUIPMENT	SK	SINK
EWH	ELECTRIC WATER HEATER	SP	STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE	SPEC	SPECIFICATION(S)
EX, EXT	EXISTING	SS	SANITARY SEWER
EXP	EXPANSION	ST	STEAM
FCO	FLOOR CLEANOUT	STL	STEEL
FD	FLOOR DRAIN	SUCT	SUCTION
FL	FLOW LINE	TDH	TOTAL DYNAMIC HEAD
FLEX	FLEXIBLE CONNECTION	TEMP	TEMPERATURE
FLR	FLOOR	TH	TOTAL HEAD
FPM	FEET PER MINUTE	TMV	THERMOSTATIC MIXING VALVE
FPRH	FREEZE PROOF ROOF HYDRANT	TWMV	THREE WAY MODULATING VALVE
FPWH	FREEZE PROOF WALL HYDRANT	TYP	TYPICAL
FS	FLOOR SINK	UL	UNDERWRITERS LABORATORY
G	GAS	UR	URINAL
GA	GAUGE	V	VENT
GAL	GALLON	VEL	VELOCITY
GALV	GALVANIZED	VERT	VERTICAL
GI	GREASE INTERCEPTOR	VLV	VALVE
GPH	GALLONS PER HOUR	VOL	VOLUME
GPM	GALLONS PER MINUTE	VTR	VENT THROUGH ROOF
GT	GREASE TRAP	WC	WATER CLOSET
GWH	GAS WATER HEATER	WCO	WALL CLEANOUT
HB	HOSE BIBB	WP	WORKING PRESSURE
HP	HORSE POWER	WT	WEIGHT
HRWH	HEAT RECLAIM WATER HEATER	WTR	WATER

GENERAL PLUMBING SYMBOLS

- REVISION NUMBER SHOWN ON PLANS
- POINT WHERE NEW CONNECTS TO EXISTING
- DEMOLISH TO POINT INDICATED
- NUMBER OF DETAIL ON SHEET NUMBER OF SHEET WHERE DETAIL APPEARS
- KEYNOTE
- PIPE CONTINUATION

SPACE TAG:

- OFFICE — SPACE NAME
- 101 — SPACE NUMBER
- 100 SF — SPACE AREA
- ITEM TO BE DEMOLISHED
- AREA NOT IN CONTRACT

SEISMIC DESIGN CRITERIA

1. SEISMIC DESIGN DATA:
   A. SEISMIC DESIGN CATEGORY: [redacted]
      a. SEE SHEET S-001 FOR MORE INFO.
2. THE FOLLOWING COMPONENT TIMPORTANCE FACTORS ARE USED:
   A. WATER HEATERS (STORAGE WATER 140°F): [redacted]
   B. WATER PIPING (GREATER THAN 120°F): [redacted]
   C. SEWER PIPING: [redacted]
   D. NATURAL GAS PIPING: [redacted]
3. SEISMIC BRACING IS NOT REQUIRED FOR THE PLUMBING COMPONENTS.
4. REFER TO THE SPECIFICATIONS.

PLUMBING PHASING

- EWH-1 — NEW CONSTRUCTION PLUMBING EQUIPMENT/ FIXTURES (TYPICAL TAG FOR ALL NEW CONSTRUCTION)
- (E)EWH-1 — EXISTING PLUMBING EQUIPMENT/ FIXTURES/ PIPE
- (A)EWH-1 — ABANDONED PLUMBING EQUIPMENT/ FIXTURES/ PIPE
- (D)EWH-1 — PLUMBING EQUIPMENT/ FIXTURES FOR DEMOLITION (TYPICAL TAG FOR ALL DEMOLITION)

PIPING LEGEND

- (E) — EXISTING PIPE TAG
- (D) — DEMOLISHED PIPE TAG
- CW — DOMESTIC COLD WATER
- DI — DEIONIZED WATER
- FW — FILTERED COLD WATER
- HW — HOT WATER 120°F
- HWR — HOT WATER 120°F RECIRCULATION
- 140HW — HOT WATER 140°F
- 140HWR — HOT WATER 140°F RECIRCULATION
- 160HW — HOT WATER 160°F
- 160HWR — HOT WATER 160°F RECIRCULATION
- RO — REVERSE OSMOSIS COLD WATER
- G — NATURAL GAS
- NG2 — NATURAL GAS-2 PSI
- NG5 — NATURAL GAS-5PSI
- CA — COMPRESSED AIR
- AV — ACID VENT
- AW — ACID WASTE
- CD — CONDENSATE DRAIN
- GW — GREASE WASTE
- OW — OIL WASTE
- SPD — PUMP DISCHARGE
- CWV — COMBINATION SANITARY & VENT
- SS — SANITARY SEWER
- V — SANITARY VENT
- SD — STORM DRAIN
- ASD — STORM DRAIN OVERFLOW/AUXILLARY

PRESSURE PIPE SYMBOLS

- PIPE TEE
- PIPE DROP
- PIPE ELBOW
- PIPE CAP
- PIPE RISE

GRAVITY PIPE SYMBOLS

- PIPE RISE
- PIPE CAP
- PIPE WYE 8TH TEE
- PIPE TEE
- PIPE DROP
- PIPE CROSS
- PIPE PLUG

PIPE ACCESSORIES

- 3-WAY MOTORIZED CONTROL VALVE
- 3-WAY MIXING VALVE
- BALANCING VALVE
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- ELBOW VALVE
- GATE VALVE
- GLOBE VALVE
- MOTOR CONTROL VALVE
- PRESSURE REDUCING VALVE
- PLUG VALVE
- SOLENOID VALVE
- THREE-WAY VALVE
- STRAINER-WYE
- STRAINER-WYE WITH BLOWOFF VALVE

DUCTWORK LEGEND

- C/F — CONCENTRIC FLUE
- C/A — COMBUSTION AIR
- F/A — EXHAUST AIR
- DROP — ROUND CONCENTRIC FLUE AIR DUCT RISE
- DROP — ROUND COMBUSTION AIR DUCT RISE
- DROP — ROUND EXHAUST AIR DUCT RISE
- 90° BEND, ROUND DUCT
- 45° BEND, ROUND DUCT

PLUMBING TAGS

PIPE TAG

- INVERT: -3' - 5" — APPROX. INVERT ELEVATION
- 6" SS (10 FU) — SIZE, SYSTEM, FU FLOW
- SS — SYSTEM ABBREVIATION

FIXTURE TAG

- 4" FS-9 — OUTLET SZE AND FIXTURE IDENTITY
- FS-9 — FIXTURE IDENTITY
- HYD-2, 3 CWFU — IDENTITY AND FIXTURE UNIT
- WSB-1, 3 WFU — IDENTITY AND WFU FIXTURE UNIT

PLUMBING SHEET SET NOTE

* NOTE *

ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THE CONTAINED REFERENCE DRAWINGS.

PLUMBING GENERAL NOTES

1. ALL PLUMBING SYSTEMS SHALL BE INSTALLED AS PER SPECIFICATIONS AND GOVERNING CODES.
2. 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. CONTRACTOR SHALL 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. THE CONTRACTOR SHALL 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 COMPLETE INFORMATION.
3. BY NECESSITY, THESE 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 GENERAL CONTRACTOR AND ALL SUBCONTRACTORS 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.
4. 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.
5. CONTRACTOR SHALL PAY ALL UTILITY FEES & CHARGES AS PART OF BASE BID IN THE CONTRACT.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH THAT OF OTHER TRADES; i.e., ARCHITECTURAL, HVAC, ELECTRICAL, STRUCTURAL, FIRE PROTECTION AND CIVIL PRIOR TO CONSTRUCTION.
7. THE CONTRACTOR SHALL COORDINATE UTILITY LOCATIONS, SIZES AND INVERT ELEVATIONS PRIOR TO CONSTRUCTION; i.e., SANITARY SEWER, STORM DRAIN, FIRE PROTECTION, DOMESTIC WATER AND NATURAL GAS. ALL SERVICES SHALL TERMINATE 5 FEET OUTSIDE THE BUILDING, EXCEPT WHERE SHOWN OTHERWISE. SEE SITE UTILITY DRAWINGS FOR CONTINUATION OF ALL SERVICE LINES.
8. PROVIDE ISOLATION VALVES AT EACH FIXTURE GROUP OR BATTERY OF FIXTURES IN THE DOMESTIC CW, HW, HWR AND GAS PIPING. VALVES SHALL BE EASILY ACCESSIBLE. WHERE HARD CEILINGS ARE LOCATED, VALVES SHALL BE ACCESSED THROUGH ACCESS PANELS. ACCESS PANELS SHALL BE COORDINATED WITH ARCHITECT PRIOR TO CONSTRUCTION.
9. PROVIDE STOP VALVES AT ALL PLUMBING FIXTURES ON BOTH HOT AND COLD WATER SUPPLY LINES. VALVES, ESCUTCHEONS, FITTINGS, ETC., SHALL BE CHROME PLATED AND INSTALLED TIGHT TO WALL. WHERE PIPING IS EXPOSED, CHROME PLATED PIPE SHALL BE USED.
10. ALL EXPOSED OR ACCESSIBLE P-TRAPS SHALL BE CHROME PLATED AND PROVIDED WITH BOTTOM CLEANOUT PLUGS.
11. SLOPE 2-1/2" AND SMALLER DRAIN WASTE AND VENT (DWV) LINES AT MIN. (2%) 1/4" FALL PER FT., 3" TO 6" DWV LINES AT MIN. (1%) 1/8" FALL PER FT. AND 8" AND LARGER DWV LINES AT MIN. (.5%) 1/16" FALL PER FT. SANITARY SEWER AND WATER SHALL BE A MINIMUM OF 10' APART OR THE DOMESTIC WATER SERVICE SHALL BE 12" ABOVE THE TOP OF THE SEWER LINE, AT ITS HIGHEST POINT, IF PLACED IN SAME TRENCH.
12. PROVIDE ALL FITTINGS, TRANSITIONS, COUPLINGS, ADAPTERS, UNIONS, AND OTHER ACCESSORIES NEEDED TO COMPLETE CONNECTIONS AND PROPER OPERATIONS OF PLUMBING FIXTURES AND PLUMBING EQUIPMENT.
13. REFER TO SPECIFICATIONS FOR ACCEPTABLE MANUFACTURERS OF PLUMBING FIXTURES AND EQUIPMENT, AND PROPER APPLICATIONS OF SAME.
14. PROVIDE CLEANOUTS IN ALL SEWERS, WHETHER SHOWN OR NOT, AT INTERVALS NOT TO EXCEED 50 FEET, AT EACH CHANGE OF DIRECTION GREATER THAN 45°, AND ALL VERTICAL STACKS AT A HEIGHT OF 30" ABOVE FINISH FLOOR AT THE BASE OF EACH STACK.
15. WHERE WATER PRESSURES EXCEED 70 PSI, PROVIDE WATER PRESSURE REDUCING VALVES (PRV) CONFORMING TO ASSE 1003 WITH STRAINER IN WATER SUPPLY LINES, SETTING AT 70 PSI. SEE CODE AND MANUFACTURER INFORMATION FOR ACCEPTABLE PRESSURE REQUIREMENTS.
16. ALL PIPING PENETRATIONS OF THE RATED CEILING AND WALL MUST BE MADE WITH METAL PIPE OR UL LISTED APPROVED DEVICES. FIRE STOP ALL PIPE PENETRATIONS THRU RATED WALLS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS, RATINGS AND FIRE STOPPING DETAILS.
17. DO NOT ROUTE ANY PIPING OVER ELEC. ROOMS, COMPUTER ROOMS, OR ELEC. PANELS.
18. INSTALL AN AGA LISTED NATURAL GAS COCK, DIRT LEG AND UNION IMMEDIATELY UPSTREAM OF EQUIPMENT CONNECTIONS. AS NOTED ON DRAWINGS PROVIDE AN AGA LISTED VENT LIMITING GAS REGULATOR. GAS REGULATORS SHALL NOT BE INSTALLED IN AIR PLENUMS (SEE HVAC PLANS FOR AIR PLENUM LOCATIONS). PAINT ALL NATURAL GAS PIPING WITH TWO COATS OF OIL BASED YELLOW PAINT IN ALL LOCATIONS NOT SPECIFIED BY ARCHITECT.
19. ALL DOMESTIC WATER PIPING ROUTED IN AREAS SUBJECT TO FREEZING TEMPERATURES SHALL BE ROUTED BELOW INSULATION AND WITHIN THE HEATED ENVELOPE OF THE BUILDING. WHERE PIPING CAN NOT BE ROUTED BELOW INSULATION, PIPING SHALL HAVE 5 WATT/FT HEAT TRACING ATTACHED. SEE ARCHITECTURAL DRAWINGS FOR INSULATION PLACEMENT AND DETAILS. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR AND ENGINEER.
20. UNLESS OTHERWISE INDICATED, DO NOT ROUTE WATER PIPING IN EXTERIOR WALLS. WHEN ROUTED IN EXTERIOR WALLS, CAREFULLY POSITION WATER PIPING ON THE HEATED SIDE (INTERIOR SIDE) OF THE WALL INSULATION.
21. MAINTAIN 10'-0" MINIMUM CLEARANCE BETWEEN FRESH AIR INTAKES, OPERABLE WINDOWS AND FLUES, PLUMBING VENTS AND GAS REGULATORS.
22. ALL STORM DRAIN, CONDENSATE DRAIN, SEWER & VENT PIPING SHALL BE RODDED AND CLEANED AT END OF CONSTRUCTION. ALL TRAPS SHALL BE CLEANED AND PRIMED AT END OF CONSTRUCTION.
23. ALL PIPE DROPS FROM CEILING PLENUM TO FLOOR SHALL BE MADE IN FURROUTS AT COLUMNS, IN WEB OF BEAMS AT COLUMNS OR IN WALLS. PIPING SHALL BE CONCEALED UNLESS APPROVED BY ARCHITECT.
24. PROVIDE WATER HAMMER ARRESTORS IN FIXTURE BRANCHES WHERE QUICK CLOSING VALVES ARE INSTALLED; i.e., FLUSH VALVES, ICE MAKERS, DISHWASHERS, ETC.
25. BELOW SLAB WATER PIPE TO BE TYPE K SOFT DRAWN COPPER WITHOUT FITTINGS OR JOINTS. SLEEVE IN ENTIRETY WITH ARMAFLEX OR APPROPRIATE POLYETHYLENE SLEEVE MATERIAL.
26. PROVIDE APPROVED BACKFLOW PREVENTION OR ANTI-SIPHON DEVICES AT ALL FIXTURES THAT COULD CONTAMINATE THE POTABLE WATER SYSTEM.
27. INSULATE ALL WATER, CONDENSATE, STORM DRAIN PIPING (VERTICAL AND HORIZONTAL) AND ROOF DRAIN BODIES ABOVE FINISH FLOOR. SEE SPECIFICATIONS FOR THICKNESS SCHEDULE.
28. INSULATE ALL EXPOSED HOT WATER & DRAIN PIPING FOR ACCESSIBLE FIXTURES PER ANSI A117.1 AND ADA REQUIREMENTS.
29. ALL EXPOSED MATERIALS WITHIN RETURN AIR PLENUMS (EXISTING AND NEW) SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 OR A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50, AS DETERMINED IN ACCORDANCE WITH ASTM E84 AND U.L. LISTINGS. IF ANY MATERIALS (EXISTING OR NEW) DO NOT MEET THESE STANDARDS, THE ITEMS SHALL BE ENCLOSED IN A GYPSUM-BOARD ENCLOSURE, BE REPLACED WITH 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, AND CPVC) IS NOT APPROVED TO BE INSTALLED WITHIN RETURN AIR PLENUMS. BY NECESSITY, WE HAVE NOTED AS MANY AREAS AS POSSIBLE ON THE PLANS WHERE THESE CONDITIONS OCCUR, BUT IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXISTING CONDITIONS (WHETHER SHOWN ON THE PLANS OR NOT) AND INCLUDE THE REPLACEMENT/WRAPPING OF THESE ITEMS IN THE BID PRICE (SEE NOTE 7 ABOVE). COORDINATE RETURN AIR PLENUM LOCATIONS AND ANY NOTED DISCREPANCIES FROM THE PLANS WITH MECHANICAL ENGINEER PRIOR TO BID.
30. FLOOR DRAINS IN MECHANICAL ROOMS ARE SHOWN FOR GENERAL LOCATION ONLY. FLOOR DRAINS SHALL BE ACCESSIBLE AND SHALL BE VERIFIED WITH EQUIPMENT LAYOUT FOR INTERFERENCES.
31. AN APPROVED TRAP SEAL DEVICE CONFORMING TO ASSE 1072 SHALL BE INSTALLED AT ALL FLOOR AND HUB DRAINS. ALL DRAINS SHALL HAVE DEEP SEAL TRAPS, 4" DEEP SEAL MINIMUM. INSTALL TRAP GUARD DEVICES PER MANUFACTURER'S INSTRUCTIONS.
32. DOMESTIC WATER SERVICE PIPING AND FITTINGS; E.G., CHECK VALVES, RPZA, SHUT-OFF VALVES, STRAINERS, PRESSURE REGULATORS, ETC. SHALL COMPLY WITH NSF 61 CRITERIA. ALL CAST IRON EQUIPMENT IS TO BE INTERNALLY EPOXY COATED.

DEMOLITON / RENOVATION NOTES

1. IN THESE GENERAL NOTES, "PLUMBING" SHALL REFER TO, BUT NOT BE LIMITED TO SYSTEMS, COMPONENTS AND EQUIPMENT FOR [HOT WATER, HOT WATER RETURN, COLD WATER, SEWER, SEWER VENTS, STORM SEWER, CONDENSATE WASTE, MEDICAL GAS, MEDICAL GAS OUTLETS, MEDICAL GAS EQUIPMENT, ISOLATION VALVES, BALANCING VALVE, REGULATORS, EQUIPMENT AND PIPING, ETC.]
2. CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO: * PIPE SYSTEMS, SIZES AND LOCATIONS.* VALVE LOCATIONS.* EQUIPMENT CONDITIONS, CONNECTIONS AND LOCATIONS.* BALANCING VALVES.* HAMMER ARRESTORS.
3. ALL EXISTING PLUMBING EQUIPMENT AND PIPING ADJACENT TO AND/OR IN AREAS OF DEMOLITION SHALL BE PROPERLY IDENTIFIED FOR LOCATION, SIZE, CONDITION AND SYSTEM(S) OPERATION. ALL SYSTEMS SHALL BE COMPARED TO THE PLUMBING DRAWINGS AND EXISTING RECORD DRAWINGS (EXISTING RECORD DRAWINGS SHALL BE REQUESTED FROM [OWNER OR GOVERNMENT]) AND DOCUMENT ALL VARIATIONS. AFTER THE EXISTING SYSTEMS ARE INVESTIGATED AND DOCUMENTED, THE CONTRACTOR SHALL CAP AND/OR REMOVE ALL PLUMBING EQUIPMENT AND PIPING BACK TO POINT OF DEMOLITION BOUNDARY AS NOTED ON PLANS. DEMOLITION BOUNDARY AND PHASING SHALL BE COORDINATED WITH ARCHITECT AND [OWNER OR GOVERNMENT] PRIOR TO CONSTRUCTION. ALL BRANCHES AND DROPS NOT REMOVED SHALL BE CAPPED AND PREPARED FOR FUTURE RECONNECTION WHEN NEW EQUIPMENT AND/OR FIXTURES ARE INSTALLED, AS REQUIRED.
4. COORDINATE AND SCHEDULE THE REMOVAL OF EXISTING PLUMBING AND SYSTEM SHUT-DOWNS WITH OWNER, ARCHITECT AND MAINTENANCE PERSONNEL PRIOR TO CONSTRUCTION.
5. MAINTAIN EXISTING PLUMBING WITH PHASED DEMOLITION AND INSTALLATION OF NEW WORK, PROVIDING TEMPORARY SERVICES AS REQUIRED.
6. EXISTING PLUMBING EQUIPMENT BEING REMOVED AND NOT RE-USED, SHALL REMAIN THE PROPERTY OF THE OWNER (AS APPROVED BY THE OWNER) AND SHALL BE DELIVERED UPON REMOVAL TO LOCATION DESIGNATED BY THE GOVERNMENT. ALL OTHER SYSTEM COMPONENTS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
7. UPON COMPLETION OF NEW ADDITION, NEW PLUMBING EQUIPMENT AND PIPING WILL BE INSTALLED AS SHOWN ON RENOVATED PLUMBING PLANS. RECONNECT ALL EXISTING BRANCHES AND EQUIPMENT TO NEW SYSTEM PIPING AS REQUIRED FOR OPERATION.
8. REPLACE AND/OR PATCH TO MATCH EXISTING, ANY COMPONENTS OF THE EXISTING PLUMBING SYSTEMS TO FACILITATE ITS INSTALLATION WITHIN THE NEW RENOVATED AREAS. SUCH ITEMS MAY INCLUDE, BUT NOT BE LIMITED TO, FITTINGS, SUPPORTS, NEW MOUNTING SYSTEMS, NEW ACCESS DOORS, ETC.
9. DAMAGED, OR INOPERABLE PLUMBING COMPONENTS INSPECTED PRIOR TO DEMOLITION AND DETERMINED NOT SUITABLE FOR REUSE, THAT WILL EFFECT THE INTEGRITY OF THE OPERATION OF THE PLUMBING SYSTEM, SHALL BE REPLACED WITH NEW OF LIKE, OR EQUAL QUALITY.
10. PATCH ALL WALLS, FLOORS, ROOFS AND CEILINGS TO MATCH EXISTING OR NEW (IF APPLIED) FOR ALL OPENINGS CREATED BY DEMOLITION WORK OF EQUIPMENT AND PLUMBING SYSTEM PENETRATIONS.
11. REFER TO HVAC PLANS FOR EXTENT OF WORK RELATING TO PLUMBING PIPING CONNECTING TO HVAC EQUIPMENT TO BE REMOVED OR RELOCATED.
12. THE ADJACENT SPACES WILL CONTINUE TO OPERATE DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE WITH OWNER TO INSURE THAT PLUMBING CONSTRUCTION DOES NOT IMPACT HOURS OF OPERATION. SEE ARCHITECTURAL SHEET FOR ADDITIONAL NOTES AND INSTRUCTIONS.

ADA REQUIREMENTS

WATER CLOSETS: THE HEIGHT OF WATER CLOSETS SHALL BE 17"-19" MEASURED FROM THE TOP OF THE TOILET SEAT. SEATS SHALL NOT BE SPRUNG OR RETURN TO A LIFTED POSITION. THE WATER CLOSET SHALL BE LOCATED 18" FROM THE SIDE WALL TO THE CENTER OF THE BOWL. HAND OPERATED FLUSH CONTROLS SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREAS NO MORE THAN 29" ABOVE FINISHED FLOOR. SEE ARCHITECTURAL SHEETS FOR GRAB BAR LOCATIONS.

URINALS: THE URINALS SHALL BE WALL HUNG WITH AN ELONGATED RIM AT A MAXIMUM OF 17" ABOVE FINISHED FLOOR. HAND OPERATED FLUSH CONTROLS SHALL BE MOUNTED NO MORE THAN 44" ABOVE FINISHED FLOOR.

LAVATORIES: LAVATORIES SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO MORE THAN 34" ABOVE FINISHED FLOOR. PROVIDE A CLEARANCE OF AT LEAST 29" ABOVE FINISHED FLOOR TO THE BOTTOM OF THE APRON. KNEE SPACE SHALL BE 8" FROM THE BOTTOM EDGE OF APRON TO THE LEADING EDGE OF THE BOTTOM OF BOWL. THE BOTTOM OF THE BOWL SHALL BE A MINIMUM OF 27" ABOVE FINISHED FLOOR. ALL WATER AND DRAIN PIPING UNDER LAVATORIES SHALL BE INSULATED WITH FOAM INSERT, COVERED WITH A 1/8" VINYL OUTER SHELL. ANGLE STOPS SHALL HAVE A FLIP TOP ACCESS.

FAUCETS-SHOWER CONTROLS: CONTROLS SHALL BE LEVER HANDLES OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 lbf.

SHOWERS: A SEAT SHALL BE PROVIDED IN SHOWER STALLS 36"x36". THE SEAT SHALL BE MOUNTED ON THE WALL OPPOSITE OF THE CONTROLS AND 17"-19" FROM THE BATHROOM FLOOR AND SHALL EXTEND THE FULL DEPTH OF THE STALL. SHOWER CONTROLS SHALL BE MOUNTED ON THE WALL OPPOSITE OF THE SEAT AND SHALL BE LOCATED ON THE SAME WALL AS THE SHOWER HEAD, AT A MINIMUM HEIGHT OF 38" AND A MAXIMUM HEIGHT OF 48". IN ADDITION TO THE FIXED SHOWER HEAD, PROVIDE A HAND HELD SHOWER SPRAY UNIT WITH A HOSE AT LEAST 60" LONG THAT CAN BE USED BOTH AS A SHOWER HEAD AND AS A HAND HELD SHOWER HEAD. IN A 30"x60" SHOWER UNIT A FOLDING SEAT SHALL BE PROVIDED, AND SHALL BE MOUNTED ON THE WALL ADJACENT TO THE CONTROLS. SEE ARCHITECTURAL DRAWINGS FOR GRAB BAR LOCATIONS.

SINKS: SINKS SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO MORE THAN 34" ABOVE FINISHED FLOOR. PROVIDE A CLEARANCE OF AT LEAST 27" HIGH, 30" WIDE, AND 19" DEEP. SINKS SHALL BE A MAXIMUM OF 6-1/2" DEEP. ALL WATER AND DRAIN PIPING UNDER SINKS SHALL BE PROVIDED WITH INSULATING FOAM INSERT, COVERED WITH A 1/8" VINYL OUTER SHELL. ANGLE STOPS SHALL HAVE A FLIP TOP ACCESS.

DRINKING FOUNTAINS-WATER COOLERS: WHEN INSTALLING A HI-LO ACCESSIBLE FOUNTAIN MOUNT THE LOWEST SPOUT AT NO MORE THAN 36" ABOVE FINISHED FLOOR AND THE HIGH SPOUT AT 40" ABOVE FINISHED FLOOR. SPOUT SHALL BE AT THE FRONT OF THE UNIT AND SHALL DIRECT THE WATER FLOW IN A TRAJECTORY THAT IS PARALLEL OR NEARLY PARALLEL TO THE FRONT OF THE UNIT. THE SPOUT SHALL PROVIDE A WATER FLOW OF AT LEAST 4" HIGH. THE CONTROLS SHALL BE FRONT MOUNTED OR SIDE MOUNTED NEAR THE FRONT EDGE. CONTROLS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE THE CONTROLS SHALL BE NO GREATER THAN 5 lbf. WALL MOUNTED UNITS SHALL HAVE A CLEAR KNEE SPACE BETWEEN THE BOTTOM OF THE APRON AND THE FINISHED FLOOR OF 27" HIGH, 30" WIDE, AND 17"-19" DEEP. FOUNTAINS SHALL NOT PROTRUDE MORE THAN 4" INTO WALKWAYS.

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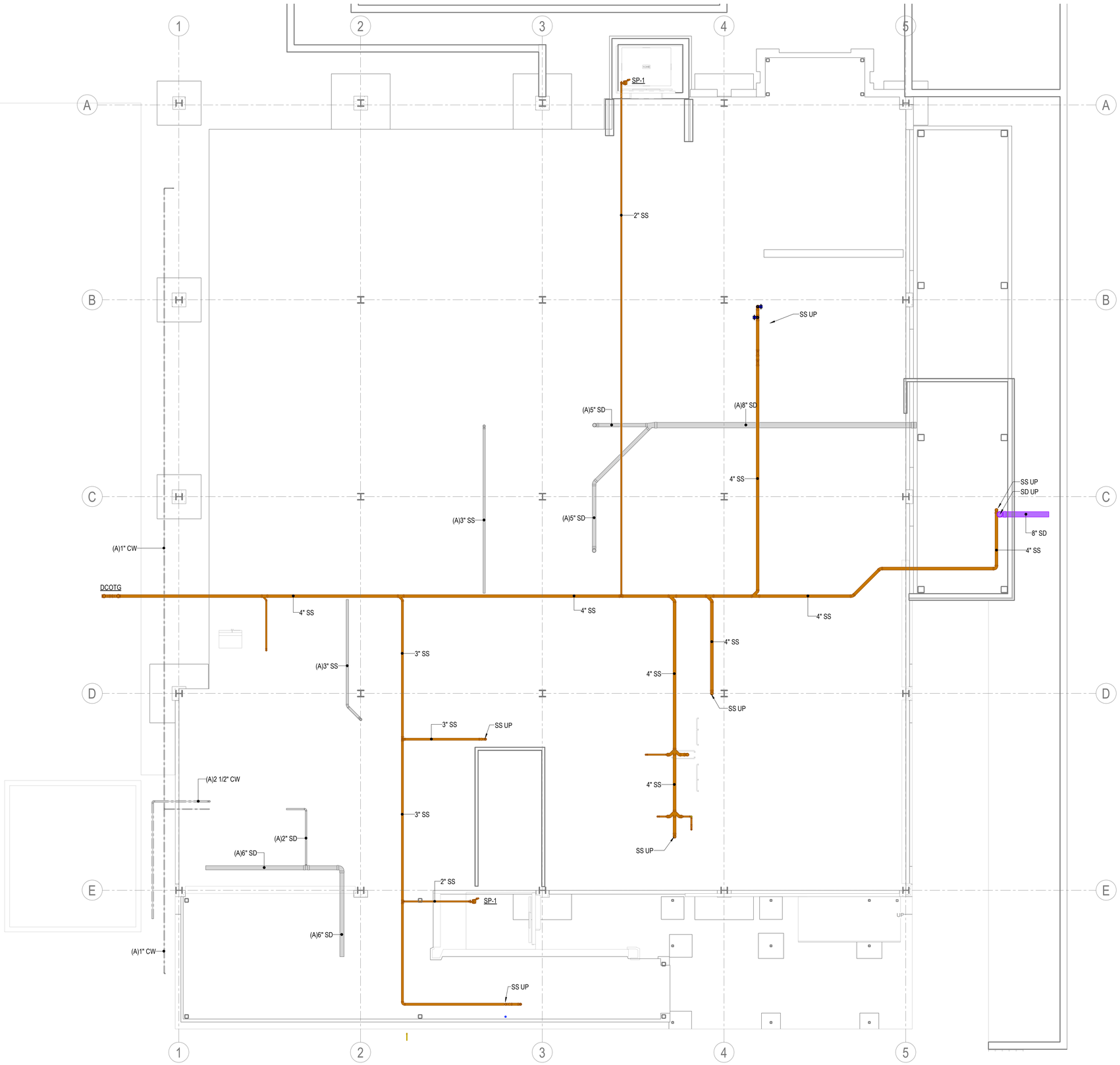
Job No. CENTRA24.00

Date March 28, 2025

Title PLUMBING LEGEND AND NOTES

Sheet No. **P-001**

Project Norm
Autodesk Docs://Central Arkansas Water -LTH Building Renovations/2024-196-Plumb.rvt
3/28/2025 3:35:46 PM



1 BELOW GRADE PLUMBING PLAN
3/16" = 1'-0"

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Title

BELOW GRADE PLUMBING PLAN

Sheet No.

P-101

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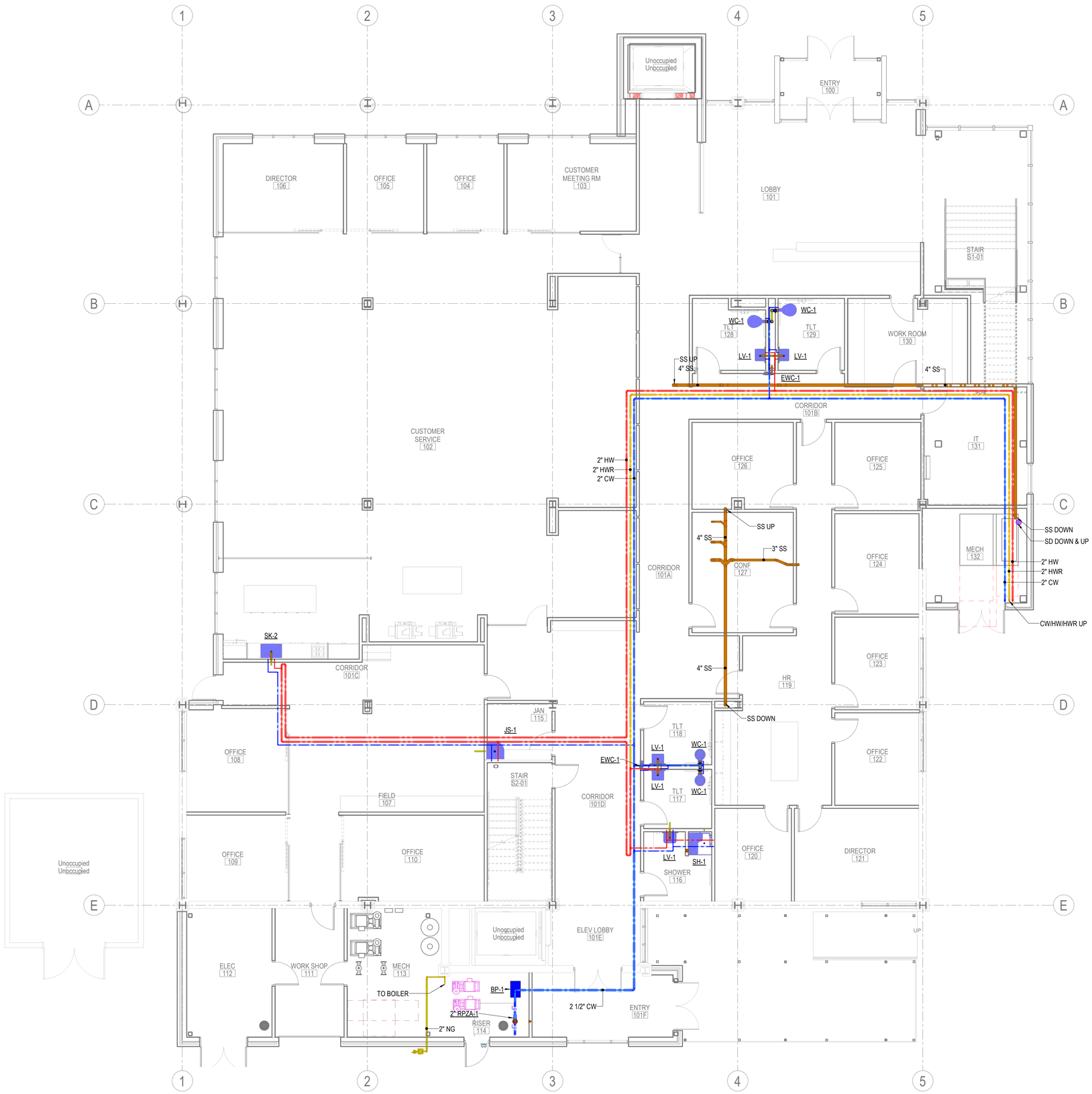

1 GROUND FLOOR PLUMBING PLAN
3/16" = 1'-0"

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Title

GROUND FLOOR PLUMBING PLAN

Sheet No.

P-102

Project Name
Autodesk Docs://Central Arkansas Water JTH Building Renovations/2024-196-Plumb.rvt
3/26/2025 3:36:14 PM

1 SECOND FLOOR PLUMBING PLAN
3/16" = 1'-0"
0 4 8 16

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Title

SECOND FLOOR PLUMBING PLAN

Sheet No.

P-103

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3/26/2025 3:36:29 PM

1 THIRD FLOOR PLUMBING PLAN
3/16" = 1'-0"
0 4 8 16

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Title THIRD FLOOR PLUMBING PLAN

Sheet No. **P-104**

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1 FOURTH FLOOR PLUMBING PLAN
3/16" = 1'-0"

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FOURTH FLOOR PLUMBING PLAN

Sheet No.

P-105

Project Norm
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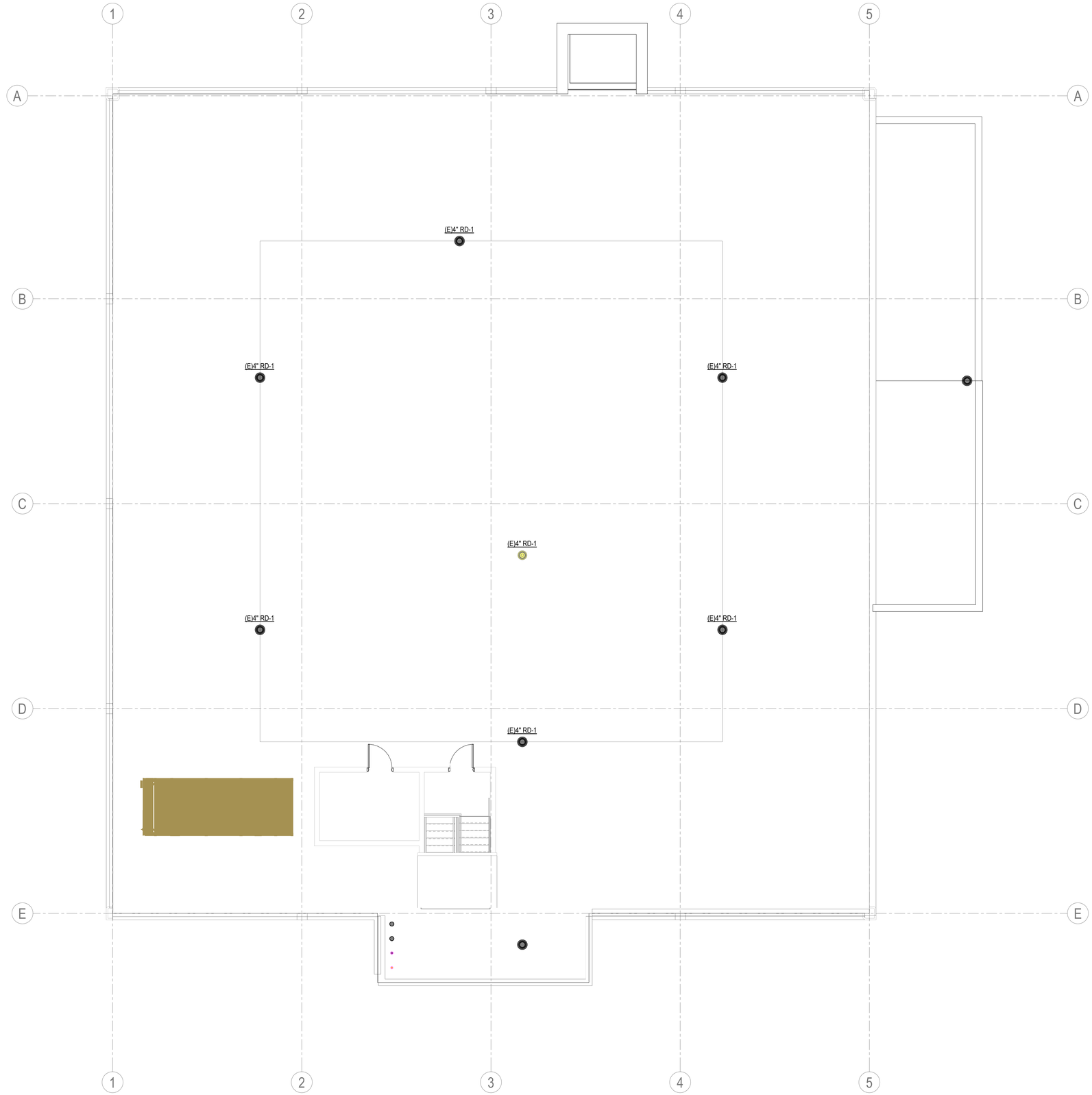
3/26/2025 3:38:56 PM



1 PLUMBING ROOF PLAN
3/16" = 1'-0"

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Title PLUMBING ROOF PLAN

Sheet No. **P-106**

Project Name:
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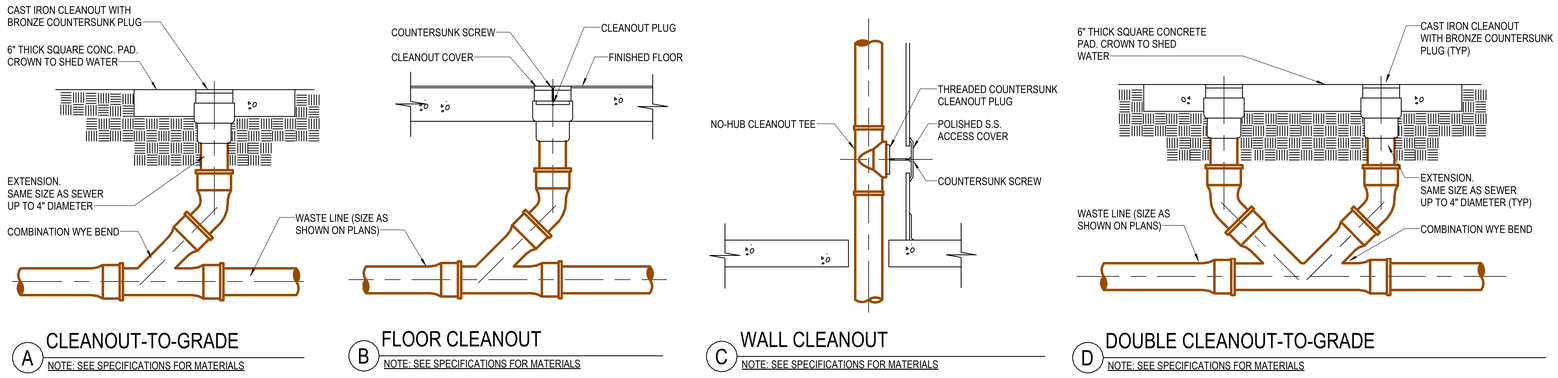


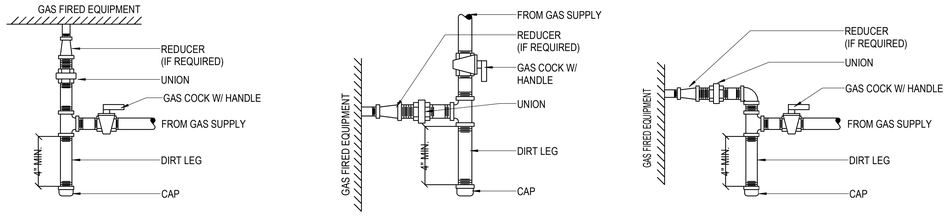
A CLEANOUT-TO-GRADE
NOTE: SEE SPECIFICATIONS FOR MATERIALS

B FLOOR CLEANOUT
NOTE: SEE SPECIFICATIONS FOR MATERIALS

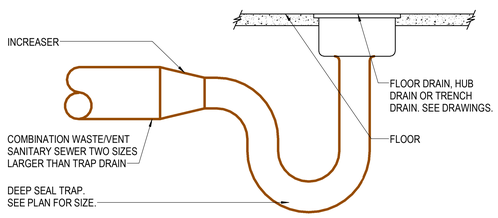
C WALL CLEANOUT
NOTE: SEE SPECIFICATIONS FOR MATERIALS

D DOUBLE CLEANOUT-TO-GRADE
NOTE: SEE SPECIFICATIONS FOR MATERIALS

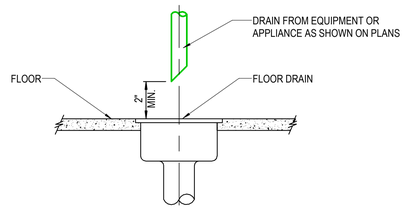
1 TYPICAL CLEANOUTS
NOT TO SCALE



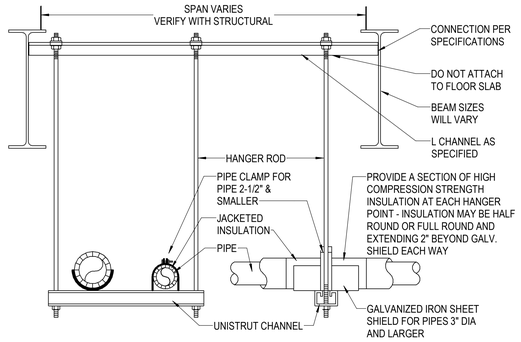
2 TYPICAL GAS PIPING CONNECTIONS
NOT TO SCALE



3 COMBINATION WASTE AND VENT TRAP
NOT TO SCALE

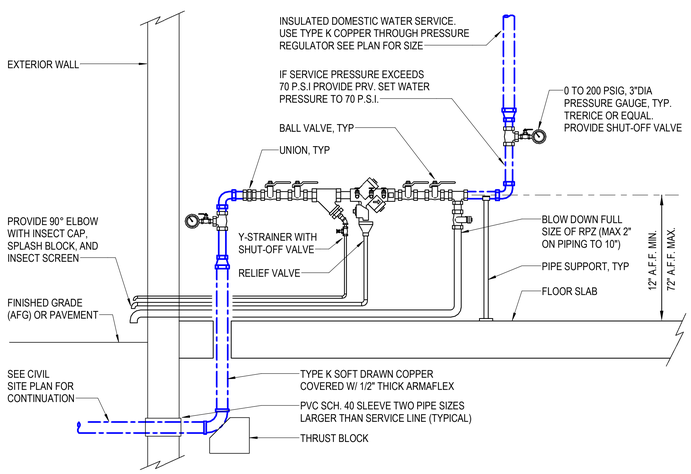


4 INDIRECT WASTE DRAIN
NOT TO SCALE

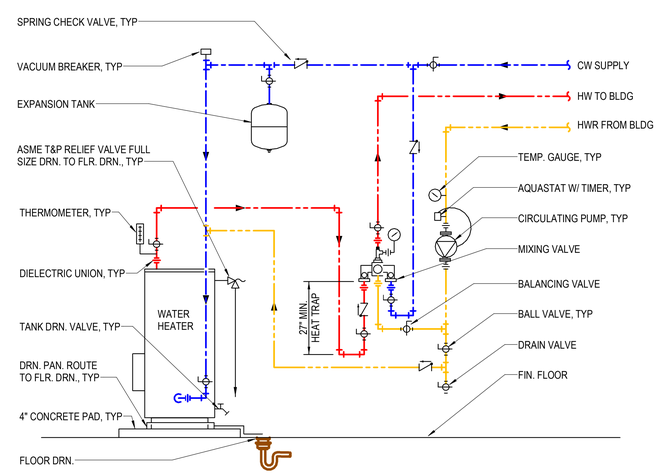


NOTES:
1. INSULATION TO BE CONTINUOUS THROUGH HANGERS. DO NOT BREAK INSULATION AT SUPPORTS, DO NOT INSULATE AROUND HANGERS.
2. INSULATION JACKET TO BE CONTINUOUS THROUGH PIPE SUPPORT COMPONENTS.
3. USE CLEVIS HANGERS FOR SINGLE PIPE RUNS, USE TRAPEZE HANGERS TO GROUP AS MUCH PIPING AS POSSIBLE PER HANGER.

5 TRAPEZE PIPE HANGER
NOT TO SCALE



6 DOMESTIC WATER BUILDING SERVICE
NOT TO SCALE



NOTES:
1. INSTALLATION AND SIZING OF EQUIPMENT, PIPING, PUMPS AND ACCESSORIES SHALL BE INSTALLED AND SIZED IN ACCORDANCE WITH MFR'S RECOMMENDATIONS.
2. AT TANK OPENINGS, PROVIDE A SHORT NIPPLE OF SAME MATERIAL AS TANK OPENING.
3. PROVIDE ASME T&P RELIEF VALVE AS REQUIRED BY CODE. ALL EQUIPMENT RELIEF VALVES SHALL BE ROUTED FULL SIZE AS NOTED.
4. INSTALL SPRING CHECK VALVE IN GRAVITY CLOSED POSITION.
5. MIXING VALVE TO BE PIPED IN STRICT ACCORDANCE WITH MFRS. INSTALLATION INSTRUCTIONS. MIXING VALVE AND CIRCULATING PUMP IS SPECIFIED AS PACKAGE UNIT. DETAIL SHOWS GENERIC HOT WATER SYSTEM FOR GENERAL SYSTEM REQUIREMENTS. COORDINATE W/ MIXING VALVE MFR FOR INSTALLATION REQUIREMENTS.
6. ALL ISOLATION BALL VALVE SHALL BE FULL PORT TYPE.
7. PIPING ARRANGEMENT IS DIAGRAMMATIC AND IS SHOWN FOR CLARITY. PIPING SHALL BE INSTALLED NEATLY AND GROUPED FOR EASY ACCESS AND SERVICEABILITY.
8. PROVIDE SEISMIC SUPPORT AS REQUIRED BY CODE.

7 WATER HEATER INSTALLATION - EWH-?
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Date CENTRA24.00
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PLUMBING DETAILS

Sheet No.
P-501

Project Name
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PLUMBING FIXTURE

ID	BASIS OF DESIGN: MANUFACTURER & MODEL	BASIS OF DESIGN: ACCESSORIES	COLD	HOT	WASTE	INDIRECT	VENT	TRAP	SPECIFICATION
WC-1	WATER CLOSET - AMERICAN STANDARD "AFWALL" #3351.101, FLUSH VALVE - ZURN #ZEMS6000AV-IS-MOB-HET,	JUNCTION BOX - ZURN #P6000-MJ, SEAT - AMERICAN STANDARD #5901.100, CARRIER - ZURN #ZN1202-ND4, POWER CONVERTER - ZURN #P6000-HW6,,	1"	---	4"	---	2"	INTEGRAL	WATER CLOSET - ADA COMPLIANT, 14"x26"x15", 1.28 GPF, WALL MTD 17" AFF, VITREOUS CHINA, EVERCLEAN ANTIMICROBIAL SURFACE, ELONGATED BOWL, INTEGRAL STOPS AND TRAP, SIPHON JET, 1-1/2" EXPOSED TOP SPUD, FLUSH VALVE - 1.28 GPF, EXPOSED, HARDWIRED SENSOR OPERATED, CHROME PLATED POLISHED EXTERIOR, DIAPHRAGM-TYPE VALVE, AQUAVANTAGE TPE CHLORAMINE RESISTANT, DUAL SEAL DIAPHRAGM WITH CLOG RESISTANT, TRIPLE FILTERED BY-PASS. HIGH BACK PRESSURE VACUUM BREAKER, CONTROL STOP, VANDAL RESISTANT, 6 VDC MOTOR ACTUATOR, INTEGRAL INFRARED CONVERGENCE-TYPE PROXIMITY SENSOR AND MANUAL PUSH BUTTON OVERRIDE, INCLUDE JUNCTION BOX AND POWER CONVERTER
WC-2	WATER CLOSET - AMERICAN STANDARD "AFWALL" #3351.101, FLUSH VALVE - ZURN #ZEMS6000AV-IS-MOB-HET,		1"	---	4"	---	2"	INTEGRAL	WATER CLOSET - STANDARD HEIGHT, 14"x26"x15", 1.28 GPF, WALL MTD 15" AFF, VITREOUS CHINA, EVERCLEAN ANTIMICROBIAL SURFACE, ELONGATED BOWL, INTEGRAL STOPS AND TRAP, SIPHON JET, 1-1/2" EXPOSED TOP SPUD, FLUSH VALVE - 1.28 GPF, EXPOSED, HARDWIRED SENSOR OPERATED, CHROME PLATED POLISHED EXTERIOR, DIAPHRAGM-TYPE VALVE, AQUAVANTAGE TPE CHLORAMINE RESISTANT, DUAL SEAL DIAPHRAGM WITH CLOG RESISTANT, TRIPLE FILTERED BY-PASS. HIGH BACK PRESSURE VACUUM BREAKER, CONTROL STOP, VANDAL RESISTANT, 6 VDC MOTOR ACTUATOR, INTEGRAL INFRARED CONVERGENCE-TYPE PROXIMITY SENSOR AND MANUAL PUSH BUTTON OVERRIDE, INCLUDE JUNCTION BOX AND POWER CONVERTER
UR-1	URINAL - AMERICAN STANDARD "PINTBROOK" #6002.001, FLUSH VALVE - ZURN #ZEMS6003AV-IS-MOB-EWS,		3/4"	---	2"	---	2"	INTEGRAL	URINAL - ADA COMPLIANT, 14-5/16"x14-7/16"x22-5/8"H, 0.5 GPF, LOWER LIP MOUNTED 17" FROM FINISHED FLOOR, VITREOUS CHINA, WASHOUT ACTION, INTEGRAL TRAP, 2" NPT OUTLET, 3/4" EXPOSED TOP SPUD, FLUSH VALVE - 0.5 GPF, EXPOSED, HARDWIRED SENSOR OPERATED, CHROME PLATED POLISHED EXTERIOR, DIAPHRAGM-TYPE VALVE, AQUAVANTAGE TPE CHLORAMINE RESISTANT, DUAL SEAL DIAPHRAGM WITH CLOG RESISTANT, TRIPLE FILTERED BY-PASS. HIGH BACK PRESSURE VACUUM BREAKER, CONTROL STOP, VANDAL RESISTANT, 6 VDC MOTOR ACTUATOR, INTEGRAL INFRARED CONVERGENCE-TYPE PROXIMITY SENSOR AND MANUAL PUSH BUTTON OVERRIDE, INCLUDE JUNCTION BOX AND POWER CONVERTER
UR-2	URINAL - AMERICAN STANDARD "PINTBROOK" #6002.001, FLUSH VALVE - ZURN #ZEMS6003AV-IS-MOB-EWS,		3/4"	---	2"	---	2"	INTEGRAL	URINAL - STANDARD HEIGHT, 14-5/16"x14-7/16"x22-5/8"H, 0.5 GPF, LOWER LIP MOUNTED 24" FROM FINISHED FLOOR, VITREOUS CHINA, WASHOUT ACTION, INTEGRAL TRAP, 2" NPT OUTLET, 3/4" EXPOSED TOP SPUD, FLUSH VALVE - 0.5 GPF, EXPOSED, HARDWIRED SENSOR OPERATED, CHROME PLATED POLISHED EXTERIOR, DIAPHRAGM-TYPE VALVE, AQUAVANTAGE TPE CHLORAMINE RESISTANT, DUAL SEAL DIAPHRAGM WITH CLOG RESISTANT, TRIPLE FILTERED BY-PASS. HIGH BACK PRESSURE VACUUM BREAKER, CONTROL STOP, VANDAL RESISTANT, 6 VDC MOTOR ACTUATOR, INTEGRAL INFRARED CONVERGENCE-TYPE PROXIMITY SENSOR AND MANUAL PUSH BUTTON OVERRIDE, INCLUDE JUNCTION BOX AND POWER CONVERTER
LV-1	LAVATORY - AMERICAN STANDARD "LUCERNE" #0355.012, FAUCET - ZURN #ZE6915-XL-N-SH-CWB-HW6-MJ,		1/2"	1/2"	2"	---	2"	1-1/4"	LAVATORY - ADA COMPLIANT, 21-1/4"x18-1/4"x6-1/2"H, WALL HUNG 34" AFF, WHITE VITREOUS CHINA, FRONT OVERFLOW, THREE FAUCET HOLES ON 4" CENTERS, FAUCET - 0.5 GPM, HARDWIRED SENSOR OPERATED, CAST BRASS BODY, POLISHED CHROME-PLATED FINISH, LEAD FREE NSF 61 CERTIFIED, 3-7/8" SPOUT HEIGHT, 5-1/8" SPOUT REACH, VANDAL RESISTANT, LAMINAR OUTLET, INCLUDE OPTIONAL SUPPLY HOSES FOR MIXING VALVE, CONNECTOR WIRE FOR PLUG-IN POWER CONVERTER, MINI JUNCTION BOX
LV-2	LAVATORY - AMERICAN STANDARD "STUDIO" #0614.000, FAUCET - ZURN #ZE6915-XL-N-SH-CWB-HW6-MJ,		1/2"	1/2"	2"	---	2"	1-1/4"	LAVATORY - ADA COMPLIANT, 19-3/4"x13-3/4"x6-7/16"D (18"x12"x6-1/4"D INSIDE), COUNTER UNDERMOUNT, WHITE VITREOUS CHINA, FRONT OVERFLOW, UNGLAZED RIM, THREE FAUCET HOLES ON 4" CENTERS, FAUCET - 0.5 GPM, HARDWIRED SENSOR OPERATED, CAST BRASS BODY, POLISHED CHROME-PLATED FINISH, LEAD FREE NSF 61 CERTIFIED, 3-7/8" SPOUT HEIGHT, 5-1/8" SPOUT REACH, VANDAL RESISTANT, LAMINAR OUTLET, INCLUDE OPTIONAL SUPPLY HOSES FOR MIXING VALVE, CONNECTOR WIRE FOR PLUG-IN POWER CONVERTER, MINI JUNCTION BOX
SK-1	SINK - JUST MANUFACTURING #US1818A-J, FAUCET - T&S BRASS #B-0892-VF05,		1/2"	1/2"	2"	---	1-1/2"		SINK - 18-1/2"x18-1/2"x7-7/8"D, 1 COMPARTMENT (16"x16"x7-7/8" INSIDE), UNDERMOUNT, SELF RIMMING, 18 GAUGE TYPE 304 STAINLESS STEEL, REAR DRAIN OUTLET, LUSTROUS SATIN FINISH, SOUND DEADENING PADS ON SIDE AND BOTTOM, TWO FAUCET HOLES ON 4" CENTERS, FAUCET - 0.5 GPM, MANUAL, 4" WING LEVER HANDLES, LEAD FREE, SWIVIL/RIGID GOOSENECK SPOUT, 6-7/16" SPOUT HEIGHT, 2-7/8" SPOUT REACH, DUAL HOT/COLD SUPPLY ON 4" CENTERS, QUARTER TURN ETERNA CARTRIDGES W/SPRING CHECKS, VANDAL RESISTANT SCREWS, NON-AERATED SPRAY OUTLET
SK-2	SINK - JUST MANUFACTURING #USADA1824A55-J, FAUCET - CHICAGO FAUCETS #434-ABCP,		1/2"	1/2"	2"	---	1-1/2"	1-1/4"	SINK - ADA COMPLIANT, 23-1/2"x18-1/4"x5-3/8"D, 1 COMPARTMENT (21"x15-3/4"x5-3/8" INSIDE), UNDERMOUNT, 18 GAUGE TYPE 304 STAINLESS STEEL WITH LUSTROUS SATIN FINISH, REAR CENTER DRAIN OUTLET, SOUND DEADENING PADS ON BOTTOM ONLY, ONE FAUCET HOLE CENTERED, FAUCET - 1.5 GPM, MANUAL, SINGLE LEVER HANDLE, CHROME PLATED LEAD FREE, NSF 61 CERTIFIED, GOOSENECK SPOUT, 8-3/4" SPOUT HEIGHT, 8-1/4" SPOUT REACH, PULL DOWN SPRAY, DUAL PATTERN OUTLET, DECK MTD, SINGLE HOLE, CERAMIC CARTRIDGE
SH-1	SHOWER PAN - INPRO #3636ADA, CONTROLS - CHICAGO FAUCETS #SH-TP6-32-024,		1/2"	1/2"	2"	---	1-1/2"		SHOWER PAN - ADA COMPLIANT, 37-9/16"x36-3/4" (36"x36" INTERIOR), SINGLE PIECE, MANUFACTURED WITH ANTIMICROBIAL, SOLID SURFACE RESIN BLEND, NON-SKID TEXTURED SURFACE, INTEGRAL WATER BARRIOR WITH FLANGE TO PREVENT WATER SEEPAGE, WHITE COLOR, CENTER DRAIN OUTLET, INCLUDE SS CURTAIN ROD AND CURTAIN, FULLY CONFIGURED WITH FOLD UP, TRANSFER SEAT, & L-SHAPE GRAB BAR, CONTROLS - ADA COMPLIANT, 2.5 GPM, THERMOSTATIC/PRESSURE BALANCING, RIGID SHOWER HEAD, SINGLE HANDLE SHOWER CONTROLS, DIVERTER VALVE, 36" WALL MOUNTED VERTICAL GRAB BAR WITH HAND SPRAY HOLDER, INTEGRAL SERVICE STOPS WITH CHECKS, AUTO DRAIN ON SHOWER HEAD AND HAND SPRAY, MIN PRESSURE 40 PSI, ASSE 1016 CERTIFIED
EWC-1	ELKAY #LZWSM8K,		1/2"	---	2"	---	2"	1 -1/2"	ELECTRIC WATER COOLER - ADA COMPLIANT, 19-3/4"x3-1/2"x40-13/16"H , BOTTLE FILLING STATION ONLY, IN-WALL MOUNTED, ELECTRONIC SENSOR ACTIVATED, 8 GPH OF 50F WATER AT 90°F AMBIENT AND 80°F INLET WATER, FILL RATE IS 1.1 GPM LAMINAR FLOW FOR REDUCED SPLASH, VISUAL LED FILTER STATUS INDICATOR, FILTER CERTIFIED TO NSF 42 AND 53, STAINLESS STEEL FINISH, INCLUDES MOUNTING FRAME
JS-1	JANITOR SINK - STERN WILLIAMS #SBC-1700, FAUCET - ZURN #Z843M1-XL-CS,		3/4"	3/4"	3"	---	2"	3"	JANITOR SINK - 24"x24"x12", FLOOR MTD, SQUARE WITH CORNER CUT, 6" DROP FRONT WITH STAINLESS STEEL CAP ON THRESHOLD, PRECAST TERAZZO, INTEGRAL 3" DRAIN WITH STAINLESS STEEL STRAINER, FAUCET - 3.0 GPM, CHROME PLATED LEAD FREE, 6-1/2" SPOUT REACH, 2-3/8" SPOUT HEIGHT, WALL MOUNTED, RIGID, 2-1/2" VANDAL RESISTANT COLOR CODED LEVER HANDLES, ADJUSTABLE INLET CENTERS, QUARTER TURN CERAMIC DISC CARTRIDGE, INTEGRAL SERVICE STOPS, ATMOSPHERIC VACUUM BREAKER, 3/4" HOSE THREADED OUTLET, PAIL HOOK, UPPER SUPPORT ROD, INCLUDE OPTIONAL CHECK STOP
FD-1	MIFAB, F1100-6-1-MG		---	---	SEE PLAN	---	2"	SEE PLAN	FLOOR DRAIN - 6"DIA STRAINER, LACQUERED CAST IRON W/ ANCHOR FLANGE, OPTIONAL CLAMPING COLLAR FOR MEMBRANE FLOORS, SEEPAGE OPENINGS, 6"DIA SATIN NICKEL BRONZE FINISHED STRAINER, VANDAL RESISTANT STAINLESS STEEL ALLEN KEY SCREWS
FD-2	MIFAB, F1100-6-1-MG		---	---	SEE PLAN	---	2"	SEE PLAN	FLOOR DRAIN - 6"DIA STRAINER, LACQUERED CAST IRON W/ ANCHOR FLANGE, OPTIONAL CLAMPING COLLAR FOR MEMBRANE FLOORS, SEEPAGE OPENINGS, 6"DIA SATIN NICKEL BRONZE FINISHED STRAINER, VANDAL RESISTANT STAINLESS STEEL ALLEN KEY SCREWS
RD-3	MIFAB, R1200-PR		---	---	SEE PLAN	---	---	---	DEEP SUMP ROOF DRAIN WITH 15" DIAMETER ANCHOR FLANGE, LARGE CAST IRON WATERPROOFING MEMBRANE CLAMP RING WITH INTEGRAL GRAVEL STOP, SQUARE ADJUSTABLE COLLAR AND STANDARD 12" (305) SQUARE HINGED TRACTOR GRATE WITH 3/8" (9) MAXIMUM WIDTH DRAINAGE SLOTS AND A FREE AREA OF 51 SQUARE INCHES.

PLUMBING ACCESSORY

ID	BASIS OF DESIGN: MANUFACTURER & MODEL	UTILITY CONNECTION	SPECIFICATION
RPZA-1	APOLLO VALVE, RPLF4A-218-A4F	2"CW	REDUCED PRESSURE ZONE ASSEMBLY - 2 INCH, LEAD FREE CAST BRASS, EASILY REMOVABLE MODULAR CHECK VALVE ASSEMBLIES, CAPTURED STAINLESS STEEL SPRINGS, BALL VALVE SHUT-OFFS W/ STAINLESS STEEL HANDLES AND UNIONS, WYE STRAINER INCLUDED, MODULAR RELIEF VALVE, 175 PSI MAX WORKING PRESSURE, 33F-180F TEMP RANGE, ALL PARTS, COMPONENTS, AND ASSEMBLIES MADE IN USA
ET-1	AMTROL, ST-12-C "THERM-X-TROL"	3/4" CW	EXPANSION TANK - 6.4 GAL TOTAL CAPACITY, 150 PSI WORKING PRESSURE, 12"DIA x 18" H, 3/4" NPT THREADED CONNECTION, 17 LBS, PROVIDE FULL PORT ISOLATION BALL VALVE AT CONNECTION TO CW
WCO	WADE, 8304-COF SERIES	SAME SIZE AS LINE, MAX 4"	WALL CLEANOUT - SAME SIZE AS LINE, MAX 4", CAST IRON FERRULE W/ ABS PLUG, ROUND STAINLESS STEEL SECURE ACCESS COVER, COUNTERSUNK CENTER SCREW
WCO	WADE, 8304-COF SERIES	SAME SIZE AS LINE, MAX 4"	WALL CLEANOUT - SAME SIZE AS LINE, MAX 4", CAST IRON FERRULE W/ ABS PLUG, ROUND STAINLESS STEEL SECURE ACCESS COVER, COUNTERSUNK CENTER SCREW
WCO	WADE, 8304-COF SERIES	SAME SIZE AS LINE, MAX 4"	WALL CLEANOUT - SAME SIZE AS LINE, MAX 4", CAST IRON FERRULE W/ ABS PLUG, ROUND STAINLESS STEEL SECURE ACCESS COVER, COUNTERSUNK CENTER SCREW
DCOTG	WADE, 6000-12 SERIES	SAME SIZE AS LINE, MAX 4"	CLEANOUT-TO-GRADE/DOUBLE-CLEANOUT-TO-GRADE - SAME SIZE AS LINE, MAX. 4 INCH, HEAVY DUTY CAST IRON, FERRULE, THREADED ADJUSTABLE HOUSING, INTEGRAL CLAMPING COLLAR, ABS PLUG, 7-1/8 INCH SQUARE HEAVY DUTY DUCTILE IRON TOP

PLUMBING EQUIPMENT

ID	BASIS OF DESIGN: MANUFACTURER & MODEL	ELECTRICAL: UTILITY CONNECTIONS	ELECTRICAL: CONNECTION TYPE	ELECTRICAL: VOLTAGE	ELECTRICAL: PHASE	ELECTRICAL: POWER	ELECTRICAL: AMPS	SPECIFICATION
WH-1	RHEEM #ELD52-TB,	3/4"CW, 3/4"HW TANK DRAIN	HARDWIRED WITH GFCI PROTECTION	208 V	1	9 kW	43 A	ELECTRIC WATER HEATER - 50 GAL, 46 GPH @ 80°F RISE, 20-1/4"DIA 58-5/8"H, TANK TYPE, HIGH-TEMP PORCELAIN ENAMEL TANK LINING, MAGNESIUM ANODE ROD RIGIDLY SUPPORTED, 150 PSI WORKING PRESSURE RATING, COPPER RESISTORED SCREW-IN ELEMENTS, 2 WIRE SINGLE PHASE OPERATION, SIMULTANEOUS WIRING, INSLUTED WITH 2-1/2" RIGID POLYURETHANE FOAM, SURFACE MOUNTED THERMOSTATS WITH INTEGRAL MANUAL RESET, HIGH LIMIT CONTROL, CSA/ASME RATED T&P RELIEVE VALVE, UL SEAL OF CERTIFICATION, COMPLETELY FACTORY ASSEMBLED
SP-1	LIBERTY PUMPS, #ELV290	1-1/2"SPD	DUPLEX RECEPTACLE WITH GFCI PROTECTION	115 V	1	3/4 HP	10.4 FLA 24 LRA	SUMP PUMP - 50 GPM @ 25 FT HD, 11"DIAx22.75"H, SUBMERSIBLE, HEAVY DUTY CAST IRON, PRE-SET LEVEL SENSOR HOLDER, OILTECTOR CONTROLER, EASY CLAM-MOUNT ISNTALLATION WITH PLUG-IN READY WIRING, PACKAGED UNIT INCLUDING CONTROL PANEL, REMOTE ALARM, AUXILIARY CONTACTS FOR BUILDING ALARM SYSTEMS,S TANDARD 25 FT CORD LENGTH, OPTIONAL 50 FT CORD LENGTH, REQUIRES MIN. 18" DIA SUMP PIT
BP-1	QUANTUMFLO "MICROFLO" DUPLEX,	2" CW	HARDWIRED WITH GFCI PROTECTION	208 V	3	3 HP	-	BOOSTER PUMP - 25-3/8"x15-5/8"x39", DUPLEX SYSTEM, 3 HP, 70 GPM MAX FLOW, 138' MAX BOOST PUMP HEAD, 5.88" IMPELLER, 304 SS PUMPS AND FITTINGS, INCLUDES VARIABLE FREQUENCY DRIVES AND MASTER POWER SWITCH, IP66 RATED VFD & MOTOR FOR INDOOR/OUTDOOR LOCATIONS, DIGITAL PRESSURE SENSOR, SILENT OPERATION CHECK VALVE

WATER HAMMER ARRESTOR

P.D.I. UNITS	A	B	C	D	E	F
FIXTURE UNITS	1-11	12-32	33-60	61-113	114-154	155-330

WADE "SHOKSTOP" #4481 SERIES WATER HAMMER ARRESTOR, SEAMLESS COPPER CONSTRUCTION, POLYPROPYLENE PISTON, (2) EPDM ORINGS, MNPT CONNECTION, MAX. PRESS. 350 PSI, MAX. TEMP. 250°F, PROVIDE PROPERLY SIZED WATER HAMMER ARRESTORS AND LOCATE ON PIPING IMMEDIATELY UPSTREAM OF ALL QUICK CLOSING VALVES (E.G. FLUSH VALVES, DISHWASHER, ICE MAKERS, SOLENOID VALVES, ETC.)

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Job No. CENTRA24.00
Date March 28, 2025
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PLUMBING SCHEDULES

Sheet No.
P-601

Project Name:
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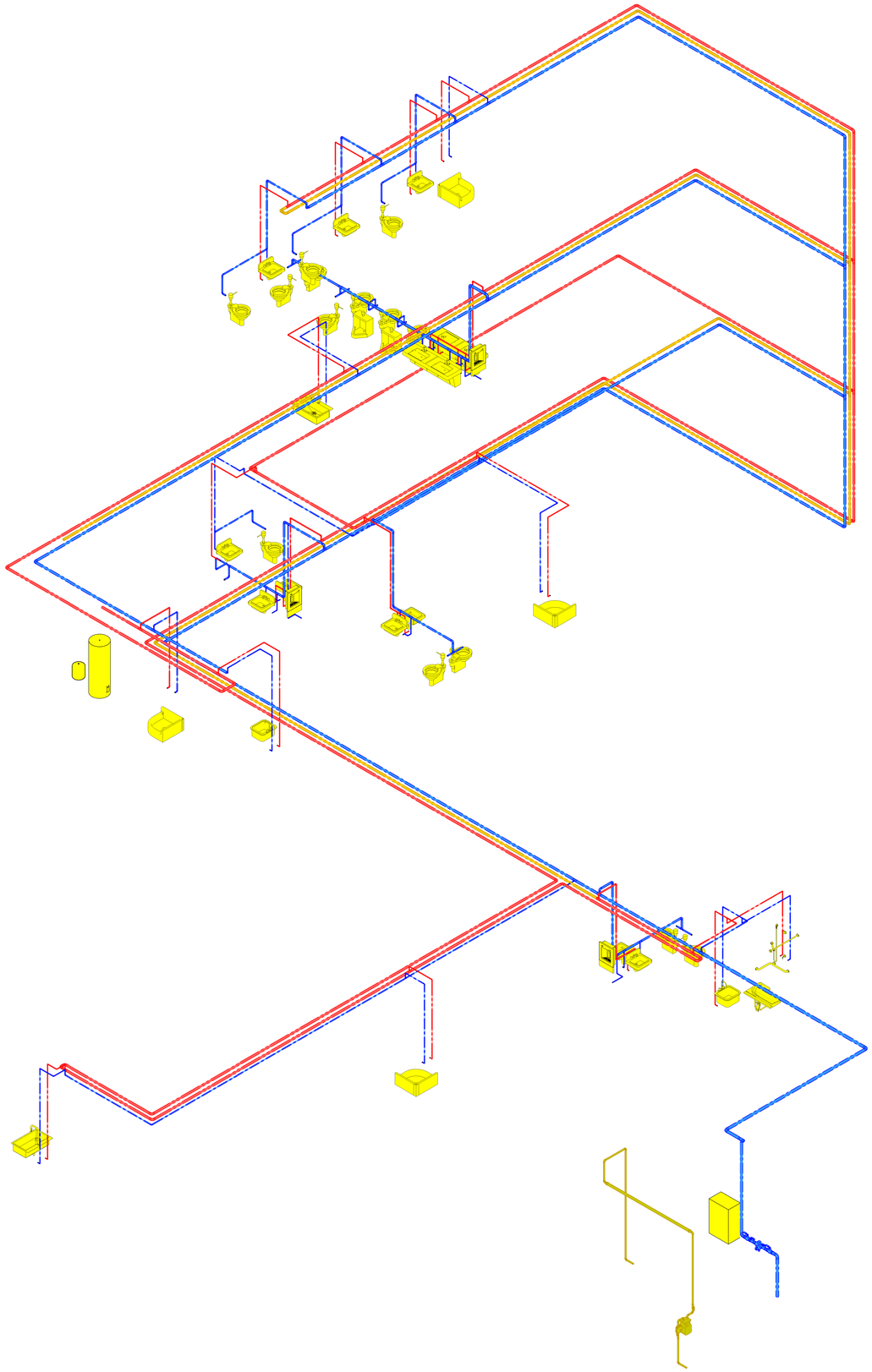

1 DOMESTIC WATER RISER

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DOMESTIC WATER RISER

Sheet No.

P-901

Project Name
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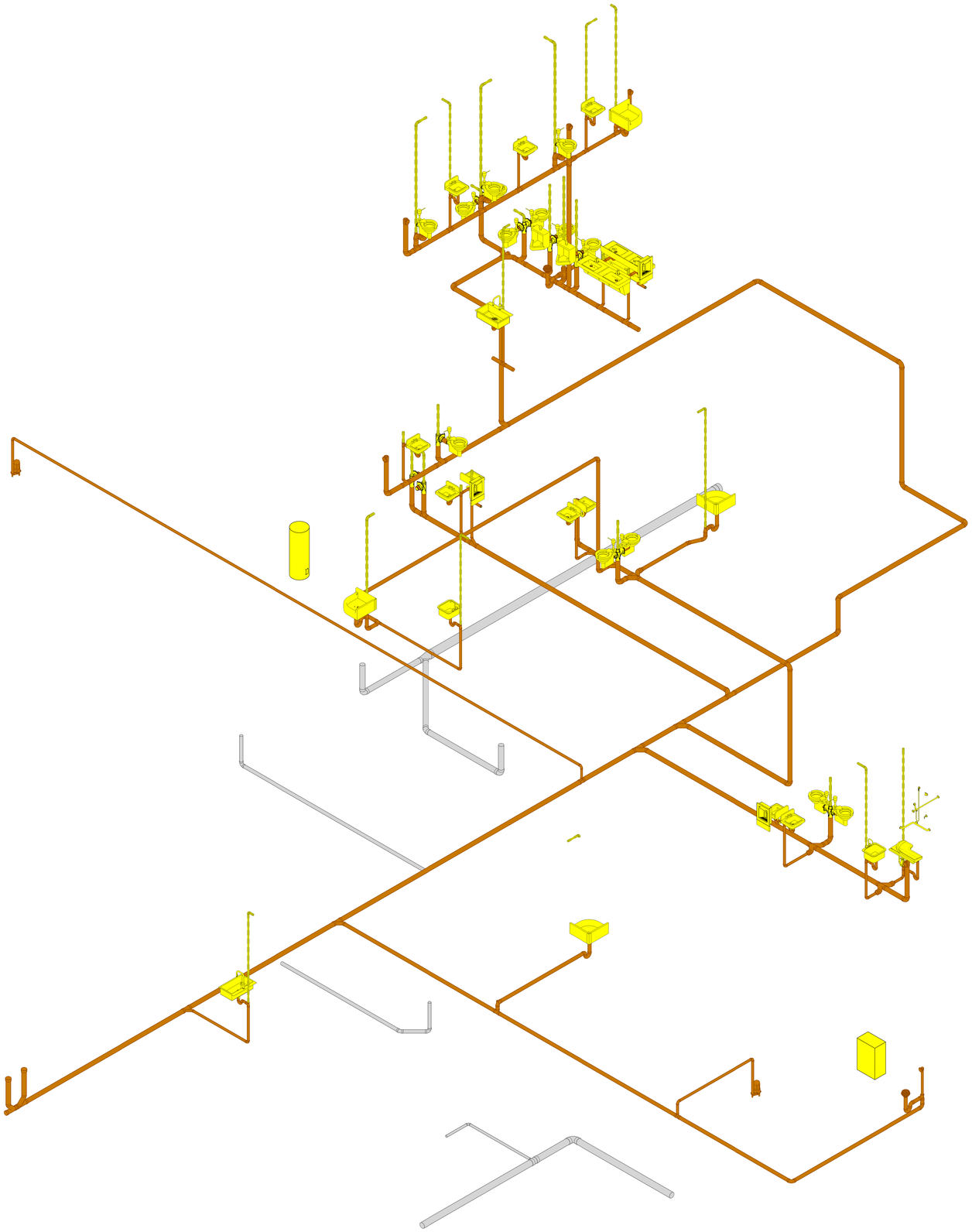

1 DRAIN, WASTE, & VENT RISER

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DRAIN, WASTE, & VENT RISER

Sheet No.

P-902

Project Name
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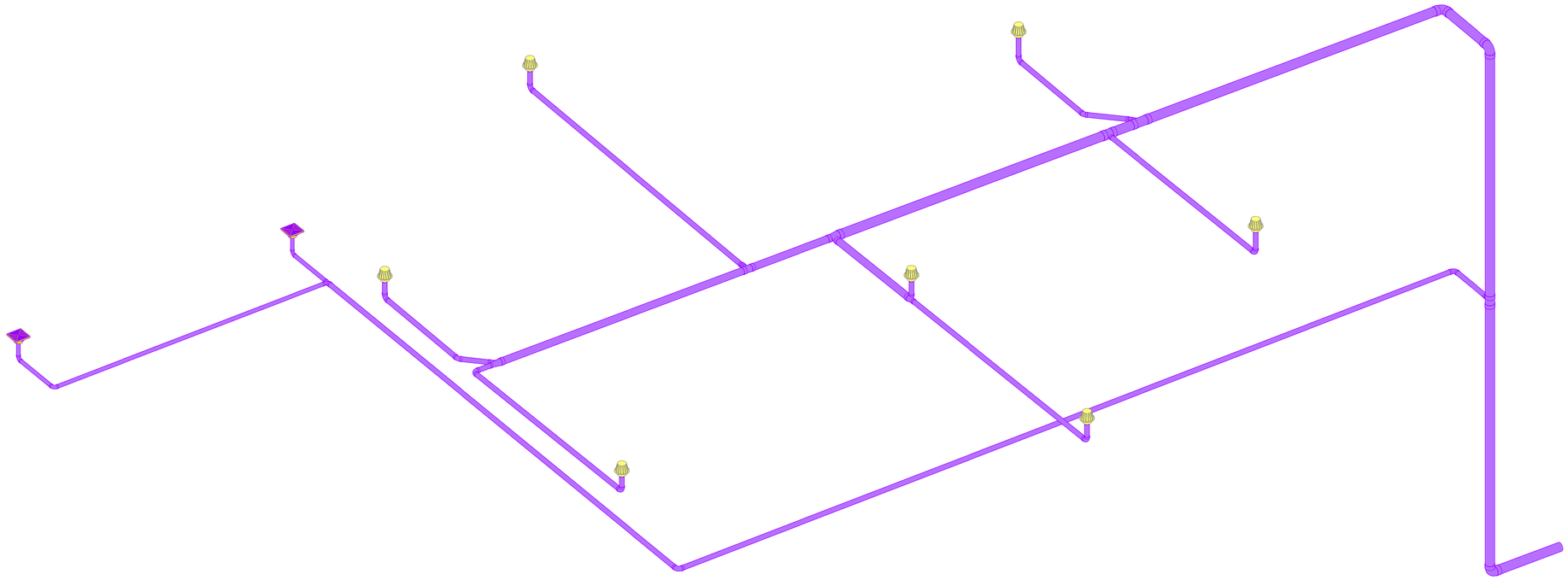

1 STORM DRAIN RISER

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Title STORM DRAIN RISER

Sheet No. **P-903**

Project Name
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1 BELOW GRADE PLUMBING DEMOLITION PLAN

3/16" = 1'-0"

0 4 8 16

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Date March 28, 2025

Title

BELOW GRADE PLUMBING DEMOLITION PLAN

Sheet No.

PD101

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Autodesk Docs://Central Arkansas Water /JTH Building Renovations/20241-199-Plumb.rvt
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1 GROUND FLOOR PLUMBING DEMOLITION PLAN
3/16" = 1'-0"

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Title
GROUND FLOOR PLUMBING DEMOLITION PLAN

Sheet No.
PD102

Project Name
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1 SECOND FLOOR PLUMBING DEMOLITION PLAN

3/16" = 1'-0"

0 4 8 16

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Job No. CENTRA24.00

Date March 28, 2025

Title

SECOND FLOOR PLUMBING DEMOLITION PLAN

Sheet No.

PD103

Project Name
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3/28/2025 3:38:17 PM

1 THIRD FLOOR PLUMBING DEMOLITION PLAN
3/16" = 1'-0"

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Job No. CENTRA24.00

Date March 28, 2025

Title THIRD FLOOR PLUMBING DEMOLITION PLAN

Sheet No. **PD104**

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3/26/2025 3:38:30 PM

1 FOURTH FLOOR PLUMBING DEMOLITION PLAN

3/16" = 1'-0"

0 4 8 16

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JAMES T. HARVEY

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No.	Issue	Date

Job No. CENTRA24.00

Date March 28, 2025

Title

FOURTH FLOOR PLUMBING DEMOLITION PLAN

Sheet No.

PD105

Project Name
Autodesk Docs://Central Arkansas Water JTH Building Renovations/2024-196-Plumb.rvt
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ELECTRICAL SYMBOLS

RECEPTACLES (MOUNTED 18" AFF UNLESS INDICATED OTHERWISE)

- DUPLEX RECEPTACLE OUTLET (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R)
- DUPLEX RECEPTACLE OUTLET (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R) MOUNT 4" ABOVE COUNTER TOP, SINK, OR BACKSPLASH (IF PRESENT)
- SINGLE RECEPTACLE OUTLET (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R)
- FLOOR RECEPTACLE OUTLET (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R)
- SINGLE RECEPTACLE OUTLET (50A, 250V, 3 POLE, 3 WIRE, NEMA 10-50R)
- SINGLE RECEPTACLE OUTLET (20A, 250V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 6-20R)
- SINGLE RECEPTACLE OUTLET (30A, 250V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 6-30R)
- SINGLE RECEPTACLE OUTLET (30A, 250V, 3 POLE, 4 WIRE, TWIST-LOCK, GROUNDING TYPE, NEMA L15-30R)
- 1 SINGLE SPECIAL-PURPOSE RECEPTACLE OUTLET; NUMBER CORRESPONDS TO THE SPECIAL-PURPOSE RECEPTACLE SCHEDULE
- R SINGLE RECEPTACLE FOR ELECTRIC RANGE (50A, 125/250V, 3 POLE, 4 WIRE, GROUNDING TYPE, NEMA 14-50R)
- DUPLEX RECEPTACLE MOUNTED IN CEILING (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R)
- TWO (2) DUPLEX RECEPTACLES MOUNTED IN DOUBLE GANG BACKBOX (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R)
- TWO (2) DUPLEX RECEPTACLES FLOOR MOUNTED IN DOUBLE GANG BACKBOX (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R)

LIGHT FIXTURES (SEE FIXTURE SCHEDULE ON E-60X FOR TYPE)

- LIGHT FIXTURE, CEILING MOUNTED
- LIGHT FIXTURE, CEILING MOUNTED, ON EMERGENCY CIRCUIT
- LIGHT FIXTURE, CEILING MOUNTED, WITH EMERGENCY SELF CONTAINED BATTERY PACK. BATTERY PACK IS TO REMAIN UNSWITCHED.
- LIGHT FIXTURE, WALL MOUNTED
- LIGHT FIXTURE, INDUSTRIAL STRIP, SURFACE OR PENDANT MOUNTED
- LIGHT FIXTURE, INDUSTRIAL STRIP, SURFACE OR PENDANT MOUNTED, ON EMERGENCY CIRCUIT
- LIGHT FIXTURE, INDUSTRIAL STRIP, SURFACE OR PENDANT MOUNTED, WITH EMERGENCY SELF CONTAINED BATTERY PACK. BATTERY PACK IS TO REMAIN UNSWITCHED.
- LIGHT FIXTURE, CEILING MOUNTED
- LIGHT FIXTURE, CEILING MOUNTED, ON EMERGENCY CIRCUIT
- LIGHT FIXTURE, CEILING MOUNTED, WITH EMERGENCY SELF CONTAINED BATTERY PACK. BATTERY PACK IS TO REMAIN UNSWITCHED.
- LIGHT FIXTURE, WALL MOUNTED
- EMERGENCY BATTERY POWERED LIGHTING UNIT, WITH SELF CONTAINED BATTERY, CHARGER, ETC. (REFER TO FIXTURE SCHEDULE FOR BATTERY TYPE, VOLTAGE, LAMP TYPE, WATTAGE, ETC.) TRIANGLES DEPICT QUANTITY AND AIMING OF LAMP HEADS
- EXIT SIGN, LIGHTED, CEILING MOUNTED. SHADED AREA INDICATES FACE. ARROW DEPICTS DIRECTIONAL ARROW ON SIGN. WHEN REQUIRED BY THE FIXTURE SCHEDULE, AN EMERGENCY SELF-CONTAINED BATTERY PACK IS TO REMAIN UNSWITCHED.
- EXIT SIGN, LIGHTED, WALL MOUNTED AT 7'-6" AFF (TO BOTTOM OF SIGN) UNLESS INDICATED OTHERWISE. ARROW DEPICTS DIRECTIONAL ARROW ON SIGN. WHEN REQUIRED BY THE FIXTURE SCHEDULE, AN EMERGENCY SELF-CONTAINED BATTERY PACK IS TO REMAIN UNSWITCHED.
- FLOOD LIGHT, ARROW INDICATES DIRECTION OF BEAM
- DOCK LIGHT
- PARKING AREA LIGHT FIXTURE, POLE MOUNTED

LIGHT FIXTURE IDENTIFICATION

A a

LOWER CASE LETTER BESIDE FIXTURE DENOTES SWITCH CONTROL (WHERE APPLICABLE)

UPPER CASE LETTER BESIDE EACH FIXTURE DENOTES FIXTURE TYPE.

SWITCHGEAR

- MAGNETIC MOTOR STARTER (FURNISHED BY DIVISION 23, UNLESS NOTED OTHERWISE)
- ELECTRICAL PANELBOARD, FLUSH MOUNTED
- ELECTRICAL PANELBOARD, SURFACE MOUNTED
- EXISTING ELECTRICAL PANELBOARD, FLUSH MOUNTED
- EXISTING ELECTRICAL PANELBOARD, SURFACE MOUNTED
- SAFETY SWITCH; 30A CURRENT RATING UNLESS NOTED OTHERWISE. +4'-0" TO HANDLE
- 30 F20 FUSIBLE SAFETY SWITCH; CURRENT RATING AND FUSE RATING NOTED. +4'-0" TO HANDLE
- CB CIRCUIT BREAKER IN WALL MOUNTED ENCLOSURE
- T ELECTRICAL TRANSFORMER, FLOOR MOUNTED UNLESS INDICATED OTHERWISE

ELECTRICAL SYMBOLS

TELEPHONE/COMMUNICATIONS/DATA (OUTLETS SHALL BE MOUNTED 18" AFF UNLESS INDICATED OTHERWISE)

- TELEPHONE OUTLET. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESSIBLE CEILING SPACE AND PULL CORD. SUBSCRIPT: W - WALL MOUNTED AT 54" AFF;
- TELEPHONE FLOOR OUTLET. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESSIBLE CEILING SPACE AND PULL CORD.
- DATA OUTLET. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESSIBLE CEILING SPACE AND PULL CORD.
- DATA FLOOR OUTLET. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESSIBLE CEILING SPACE AND PULL CORD.
- COMBINATION VOICE/DATA OUTLET. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESSIBLE CEILING SPACE AND PULL CORD.
- COMBINATION VOICE/DATA FLOOR OUTLET. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESSIBLE CEILING SPACE AND PULL CORD.
- 4'-0" HIGH x 3/4" THICK FIRE-RETARDANT PLYWOOD BACKBOARD. SEE PLANS FOR LENGTH.
- 2 WIRELESS ACCESS POINT OUTLET CEILING MOUNTED. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESS CEILING SPACE AND PULL CORD. NUMBER INDICATES QUANTITY OF DATA JACKS. ABSENCE OF A NUMBER INDICATES ONE DATA JACK.
- CABLE TRAY

SINGLE LINE

- CIRCUIT BREAKER, TRIP RATING AS INDICATED, 3 POLE OR AS INDICATED
- 60A DISCONNECT SWITCH OR LOAD INTERRUPTER SWITCH, CURRENT RATING AS INDICATED, 3 POLE OR AS INDICATED
- GFI SWITCH WITH GROUND FAULT INTERRUPTER
- F30 FRS FUSE, CURRENT RATING AND TYPE WHEN INDICATED
- TRANSFORMER, DESCRIPTION AS NOTED OR PER SCHEDULE
- CURRENT TRANSFORMER
- POTENTIAL TRANSFORMER
- SS PHASE SELECTOR SWITCH
- A AMMETER
- V VOLTMETER
- WH WATT-HOUR METER
- SPD SURGE PROTECTIVE DEVICE
- AUTOMATIC TRANSFER SWITCH
- G GENERATOR

SWITCHES (MOUNTED AT 46", UNLESS INDICATED OTHERWISE) (LOWER CASE LETTER INDICATES DEVICES CONTROLLED)

- $a SWITCH, SINGLE POLE, 20A
- $2 SWITCH, DOUBLE POLE, 20A SWITCH
- $3 3-WAY, 20A SWITCH
- $4 4-WAY, 20A SWITCH
- $K KEY OPERATED
- $P SINGLE POLE SWITCH, WITH PILOT LIGHT
- $M SINGLE POLE MANUAL MOTOR STARTING SWITCH, WITH THERMAL OVERLOAD ELEMENT AND PROVISIONS FOR LOCKING OPEN
- $D SWITCH, DIMMING (COORDINATE WITH FIXTURE MANUFACTURER)
- $X SWITCH, MULLION SWITCH
- $LV LOW VOLTAGE WITH MOMENTARY CONTACTS SWITCH
- $O OCCUPANCY SENSOR, WALL MOUNTED, DUAL TECHNOLOGY
- OS OCCUPANCY SENSOR, CEILING MOUNTED, DUAL TECHNOLOGY
- PC PHOTOCELL
- +6' AFF MULTIPLE DEVICES LOCATED SIDE BY SIDE (OR ABOVE AND BELOW, IF DIFFERENT ELEVATIONS ARE SHOWN) AT THE LOCATION INDICATED)

ELECTRICAL SYMBOLS

WALL MOUNTED VISUAL DEVICES TO BE LOCATED SUCH THAT THE ENTIRE LENS OF THE STROBE IS BETWEEN 80" AND 96" AFF. ALL WALL MOUNTED NOTIFICATION DEVICES SHALL BE MOUNTED AT THE SAME HEIGHT AFF TO ACHIEVE A UNIFORM APPEARANCE OR AS DIRECTED BY THE A/E.

- 15 C CEILING MOUNT HORN/STROBE, 15 CANDELA UNLESS NOTED OTHERWISE
- 15 WALL MOUNT HORN/STROVE, 15 CANDELA UNLESS NOTED OTHERWISE
- 15 1.5 CEILING MOUNT SPEAKER/STROBE, 15 CANDELA AND 1.5 WATT TAP UNLESS NOTED OTHERWISE
- 15 1.5 WALL MOUNT SPEAKER/STROBE, 15 CANDELA AND 1.5 WATT TAP UNLESS NOTED OTHERWISE
- 1.5 S CEILING MOUNT SPEAKER, 1.5 WATT TAP UNLESS NOTED OTHERWISE
- 1.5 S WALL MOUNT SPEAKER, 1.5 WATT TAP UNLESS NOTED OTHERWISE
- C H CEILING MOUNT HORN
- H WALL MOUNT HORN
- 15 CEILING MOUNT STROBE, 15 CANDELA UNLESS NOTED OTHERWISE
- 15 WALL MOUNT STROBE, 15 CANDELA UNLESS NOTED OTHERWISE
- P SPOT-TYPE SMOKE DETECTOR (P - PHOTO, I - IONIZATION, SB - SOUNDER BASE)
- S DUCT SMOKE DETECTOR (S - SUPPLY, R - RETURN)
- F MANUAL PULL STATION (48" AFF UNLESS NOTED OTHERWISE)
- WF WATER FLOW SWITCH
- VS VALVE SUPERVISORY (TAMPER) SWITCH
- DH DOOR HOLD OPEN MODULE. PROVIDE FIRE ALARM LISTED HOLD-OPEN ASSEMBLY IF NOT CALLED OUT IN DOOR HARDWARE SCHEDULE.
- V ELECTRIC BELL FOR WATER FLOW. INSTALL AT 9' +/- ABOVE FINISHED GRADE OR AS DIRECTED BY FIRE MARSHAL.
- AIM ADDRESSABLE MODULE (AIM - INPUT, AOM - OUTPUT, AIO - INPUT/OUTPUT)
- FACP FIRE ALARM CONTROL PANEL (WITH INTEGRATED MASS NOTIFICATION / EMERGENCY COMMUNICATIONS SYSTEM IF SPECIFIED)
- LCD REMOTE LCD ANNUNCIATOR
- GAP REMOTE GRAPHICS ANNUNCIATOR
- NAC1 NOTIFICATION APPLIANCE CIRCUIT AMPLIFIER (CIRCUIT #)
- MIC MASS NOTIFICATION / EMERGENCY COMMUNICATION LOCAL OPERATOR'S CONTROL WITH MICROPHONE FOR LIVE VOICE PAGING

MISCELLANEOUS

- J JUNCTION BOX, WALL MOUNT AS INDICATED
- J JUNCTION BOX, CEILING MOUNT AS INDICATED
- C CLOCK OUTLET, WALL MOUNTED 7'-6" AFF
- MOTOR
- 10' BARE #6 COILED & EXOTHERMICALLY WELDED TO COLUMN
- TV CABLE TELEVISION OUTLET BOX MOUNTED 18" AFF WITH CONDUIT STUBBED ABOVE CEILING. PROVIDE PULL CORD.

CIRCUIT INFORMATION

1GL1-1,3,5 — #8, 1"C

- HOMERUN DESIGNATION
- PHASE CONDUCTOR(S)
- EQUIPMENT GROUND (PROVIDE EQUIPMENT GROUND FOR ALL BRANCH CIRCUITS AND FEEDERS, WHETHER SHOWN OR NOT. WHERE SHOWN TO SHARE A CONDUIT, BRANCH CIRCUITS SHALL SHARE EQUIPMENT GROUND UNLESS INDICATED OTHERWISE)
- NEUTRAL
- CONDUIT SIZE
- WIRE SIZE
- CIRCUIT DESIGNATION

- CIRCUIT DESIGNATION INDICATES PANELBOARD AND CIRCUIT(S) TO WHICH HOMERUN IS CONNECTED.
- WIRE SIZE SHALL BE NO. 12, UNLESS INDICATED OTHERWISE.
- CONDUIT SIZE SHALL BE MINIMUM ALLOWED BY SPECIFICATIONS FOR NO. 12 SIZE WIRE, 3/4" FOR NO. 10, UNLESS INDICATED OTHERWISE.
- CIRCUIT INFORMATION PROVIDED AT THE HOMERUN SYMBOL SHALL APPLY THE ENTIRE LENGTH OF THE CIRCUIT (FROM PANELBOARD TO LAST LOAD).
- WHEN NO PHASE CONDUCTOR OR NEUTRAL IS INDICATED AT THE HOMERUN SYMBOL, PROVIDE ONE PHASE CONDUCTOR AND ONE NEUTRAL, BOTH NO. 12.
- SWITCHING CONDUCTORS, CONDUCTORS FOR NIGHT LIGHT CIRCUITS (UNSWITCHED), ETC. ARE NOT SHOWN, BUT SHALL BE PROVIDED AS NECESSARY.
- WIRE SIZE INDICATED ON THESE DOCUMENTS AS INDICATED BY "NO." OR "#" HAS THE SAME MEANING AS "AWG" (N.E.C. NOMENCLATURE). (I.E."NO. 12" OR "# 12" MEANS "12AWG" IN N.E.C. NOMENCLATURE.)

PAGING DEVICES

- S V LOUDSPEAKER OUTLET, CEILING MOUNTED, DIRECTIONAL. SUBSCRIPT "V" DENOTES VOLUME CONTROL.
- S V LOUDSPEAKER OUTLET, WALL MOUNTED, DIRECTIONAL. SUBSCRIPT "V" DENOTES VOLUME CONTROL.
- S V LOUDSPEAKER OUTLET, CEILING MOUNTED, BI-DIRECTIONAL. SUBSCRIPT "V" DENOTES VOLUME CONTROL.
- S V LOUDSPEAKER OUTLET, CEILING MOUNTED. SUBSCRIPT "V" DENOTES VOLUME CONTROL. MOUNT TO ROOF TRUSS WITH BAFFLE BOX IN AREAS WITHOUT CEILINGS.
- $V SPEAKER VOLUME CONTROL

SECURITY

- M MAGNETIC ALARM SWITCH
- D DURESS ALARM SWITCH
- MD MOTION DETECTOR
- CD CAPACITIVE DETECTOR
- CCTV CAMERA LOCATION, CEILING MOUNTED UNLESS INDICATED OTHERWISE
- KS KEYPAD ACCESS ALARM OVERRIDE CONTROL
- ELECTRIC PUSH-BUTTON
- CARD READER
- ES ELECTRIC STRIKE
- REX REQUEST TO EXIT PUSH BUTTON

ABBREVIATIONS:

AFF = ABOVE FINISHED FLOOR
AFL = ABOVE FINISHED LANDING
GFI = GROUND FAULT INTERRUPTER
IG = ISOLATED GROUND
UIO = UNLESS INDICATED OTHERWISE
WP = WEATHERPROOF CONSTRUCTION
OF/OI = OWNER FURNISHED / OWNER INSTALLED
CF/CI = CONTRACTOR FURNISHED / CONTRACTOR INSTALLED
TYP = TYPICAL
NIC = NOT IN CONTRACT

GENERAL SYMBOLS NOTES:

1. ALL SYMBOLS MAY NOT BE USED.

2. MOUNTING HEIGHTS ARE ABOVE FINISHED FLOOR OR GRADE TO THE CENTER LINE OF THE OUTLET, DEVICE, ETC. UNLESS INDICATED OTHERWISE.

3. LARGE AMPACITY CIRCUIT DESIGNATION EXAMPLE: 4 SETS OF 3#500, #250, #1/0G, 4"C MEANS IN EACH OF FOUR 4" CONDUITS INSTALL THREE 500 kCM CONDUCTORS, ONE 250 kCM NEUTRAL AND ONE #1/0 GROUND.

COLOR LEGEND:

- EXISTING TO REMAIN
- DEMOLISH
- NEW CONSTRUCTION

LINESTYLE LEGEND:

- DEMOLISH
- EXISTING TO REMAIN
- NEW

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Sheet No. **E-001**

Project Name
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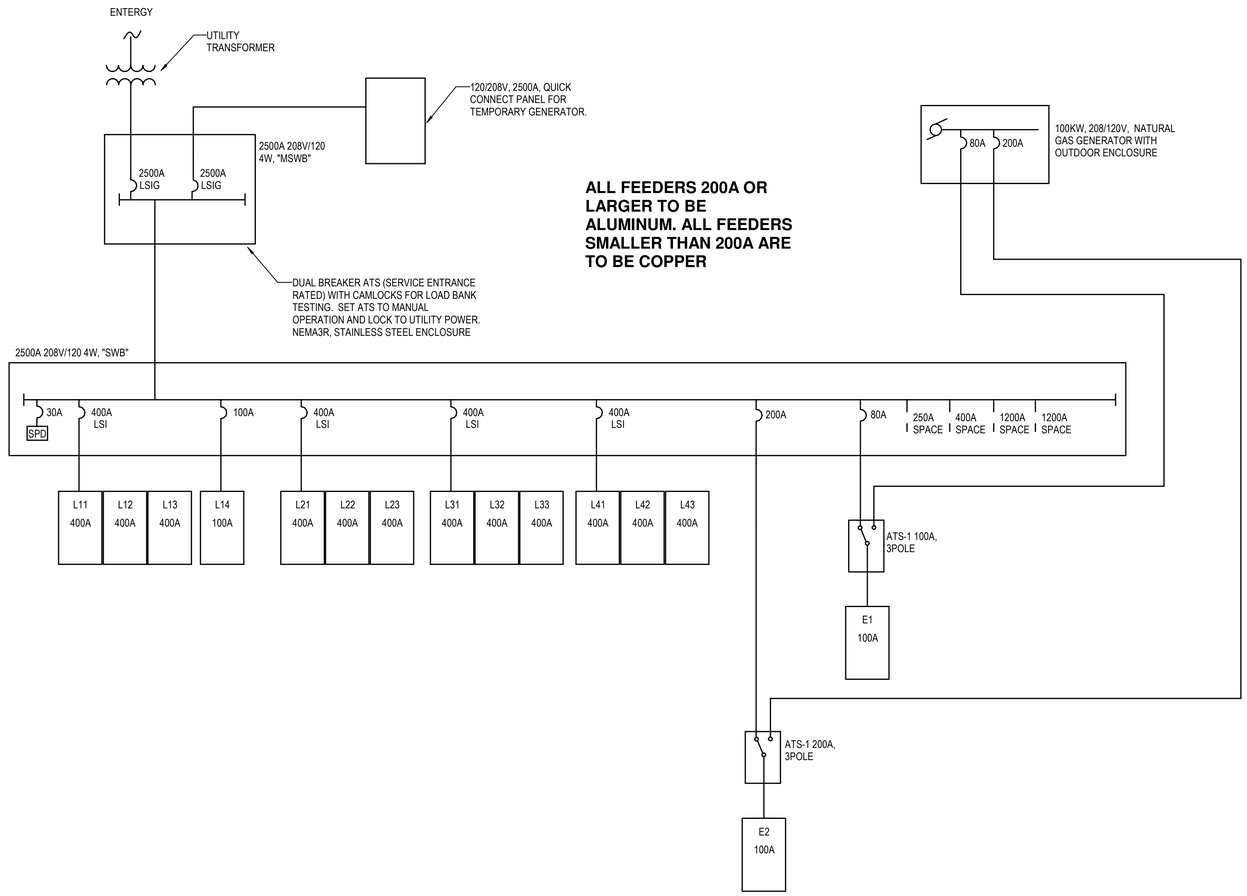

1 ONE-LINE DIAGRAM
N.T.S.

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Title ELECTRICAL SINGLE-LINE DIAGRAM

Sheet No. **E-601**

Project Name
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LIGHTING FIXTURE SCHEDULE

TYPE	MODEL	MANUFACTURER	LAMP	VOLTAGE	DESCRIPTION
B1	22CZ2-39HE-HRP-UNV	COOPER	4000K/4000LM/29W	MVOLT	2X2 LED TROFFER
C1	HC6-25-D010-HM6-0525-840-61-WD-C-WF	COOPER	4000K/2500LM/28W	MVOLT	6" LED DOWNLIGHT
C2	HCC4S-25-D010-XX-XX36"-HM4-0525-840-41-WD-C	COOPER	4000K/2500LM/28W	MVOLT	6" LED DOWNLIGHT
L20	SLIR-D-HLO-FS-80CRI-500LMF-40K-20'-UNV-RD1-1C-DMF-XX	LUMENWERX	4000K/10000LM/162W	MVOLT	1" RECESSED LINEAR FIXTURE
L36	SLIR-D-HLO-FS-80CRI-600LMF-40K-36'-UNV-RD1-1C-DMF-XX	LUMENWERX	4000K/21600LM/360W	MVOLT	1" RECESSED LINEAR FIXTURE
L40	SLIR-D-HLO-FS-80CRI-600LMF-40K-40'-UNV-RD1-1C-DMF-XX	LUMENWERX	4000K/24000LM/400W	MVOLT	1" WIDE 40' RECESSED LINEAR FIXTURE
LV6	SLIR-D-HLO-FS-80CRI-500LMF-40K-6'-UNV-RD1-1C-DMF-XX	LUMENWERX	4000K/2500LM/49W	MVOLT	1" RECESSED LINEAR FIXTURE VERTICAL WALL MOUNTED
P1	SLIP-D-HLO-FS-80CRI-600LM-40K-6'-UNV-RD1-1C-2CN-XX-CPS-36IN	PAL LIGHTING	4000K/3600LM/48.6W	MVOLT	6' LINEAR PENDANT
R1	P5548-40-LO-XX-WHPC-6FT	IMPACTLTG	4000K/15300LM/177W	MVOLT	DECORATIVE ROUND PENDANT
R2	L74IISISL2PMM-20W-WHITE-4000K-120-277-0-10V	LUMINART	4000K/2700LM/20W	MVOLT	DECORATIVE GLOBE PENDANT
S1	RP-WS-XX-XX-35-1_10V_UNV-IP65	RBW	3500K/600LM/10W	MVOLT	DECORATIVE ACCENT SCONCE
T1	4-SNLED-LD5-LC-74HL-LN-UNV-L840-CD-1-U-YTOGGLE-10-2PK	COOPER	4000K/7500LM/62W	MVOLT	4' LED STRIP LIGHT. PROVIDE WITH CHAIN

LIGHTING CONTROL SCHEDULE

TYPE	MODEL	MANUFACTURER	DESCRIPTION
$O	DSW-301-W	WATTSTOPPER	WALL MOUNTED OCCUPANCY SENSOR, DUAL-TECH, AUTO ON OFF
$O1	DW-311-W	WATTSTOPPER	WALL MOUNTED OCCUPANCY SENSOR, DUAL-TECH, AUTO ON OFF WITH DIMMING
DT	LMZC-301/LMEQ-41/RTIKX4	WATTSTOPPER	DIGITAL TIEM CLOCK. PROVIDE WITH TOUCH SCREEN AND POWER SUPPLY. PROVIDE ALL PARTS AND PIECES FOR A COMPLETE FUNCTIONAL SYSTEM.
OS	LMDC-111	WATTSTOPPER	CEILING MOUNTED OCCUPANCY SENSOR WITH DUAL TECHNOLOGY. AUTO ON/OFF
PP	LMRC-111-16M	WATTSTOPPER	POWER PACK WITH DIMMING

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Sheet No. **E-602**

Project Name
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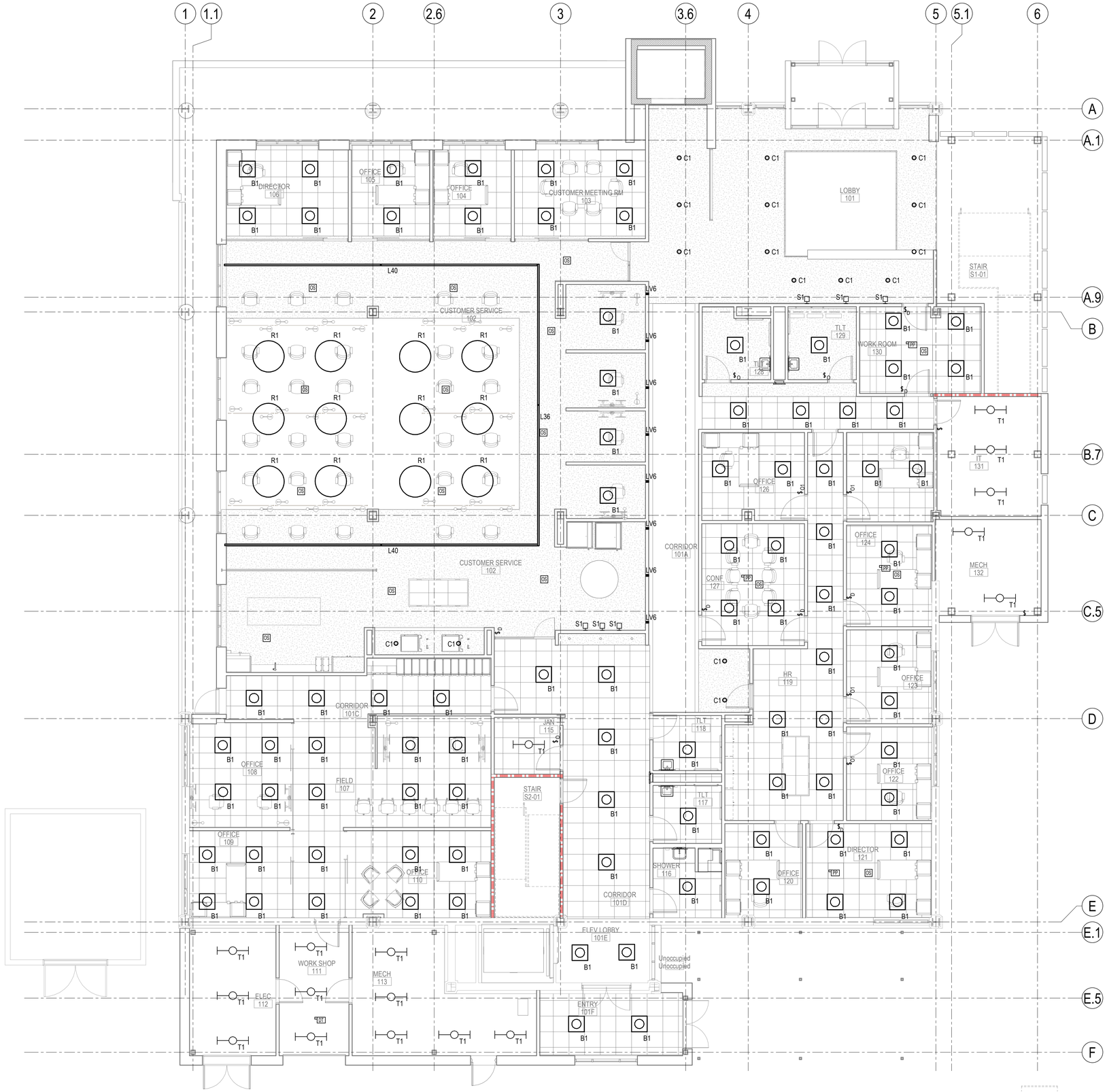

1 GROUND FLOOR LIGHTING PLAN
3/16" = 1'-0"

GENERAL NOTES:

1. ALL LARGE OFFICES TO HAVE DIMMER SWITCHES WITH CEILING MOUNTED OCCUPANCY SENSORS. REFER TO LIGHTING CONTROL DEVICES SCHEDULE.
2. ALL SMALL OFFICES TO HAVE WALL MOUNTED DIMMER/OCCUPANCY SWITCHES. REFER TO LIGHTING CONTROL DEVICES SCHEDULE.
3. ALL LIGHTS IN THE CORRIDORS TO BE CONNECTED TO THE DIGITAL TIME CLACK. REFER TO LIGHTING CONTROL DEVICES SCHEDULE.

KEYED NOTES:

1. X
2. X

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GROUND FLOOR LIGHTING PLAN

Sheet No.

EL101

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1 SECOND FLOOR LIGHTING PLAN
3/16" = 1'-0"

GENERAL NOTES:

1. ALL LARGE OFFICES TO HAVE DIMMER SWITCHES WITH CEILING MOUNTED OCCUPANCY SENSORS. REFER TO LIGHTING CONTROL DEVICES SCHEDULE.
2. ALL SMALL OFFICES TO HAVE WALL MOUNTED DIMMER/OCCUPANCY SWITCHES. REFER TO LIGHTING CONTROL DEVICES SCHEDULE.
3. ALL LIGHTS IN THE CORRIDORS TO BE CONNECTED TO THE DIGITAL TIME CLACK. REFER TO LIGHTING CONTROL DEVICES SCHEDULE.

KEYED NOTES:

1. X
2. X

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DESIGN DEVELOPMENT

No.	Issue	Date

Job No. CENTRA24.00

Date March 28, 2025

Title
SECOND FLOOR LIGHTING PLAN

Sheet No.
EL102

Project Name
Autodesk Docs://Central Arkansas Water JTH Building Renovations/2024-196-Elec.rvt
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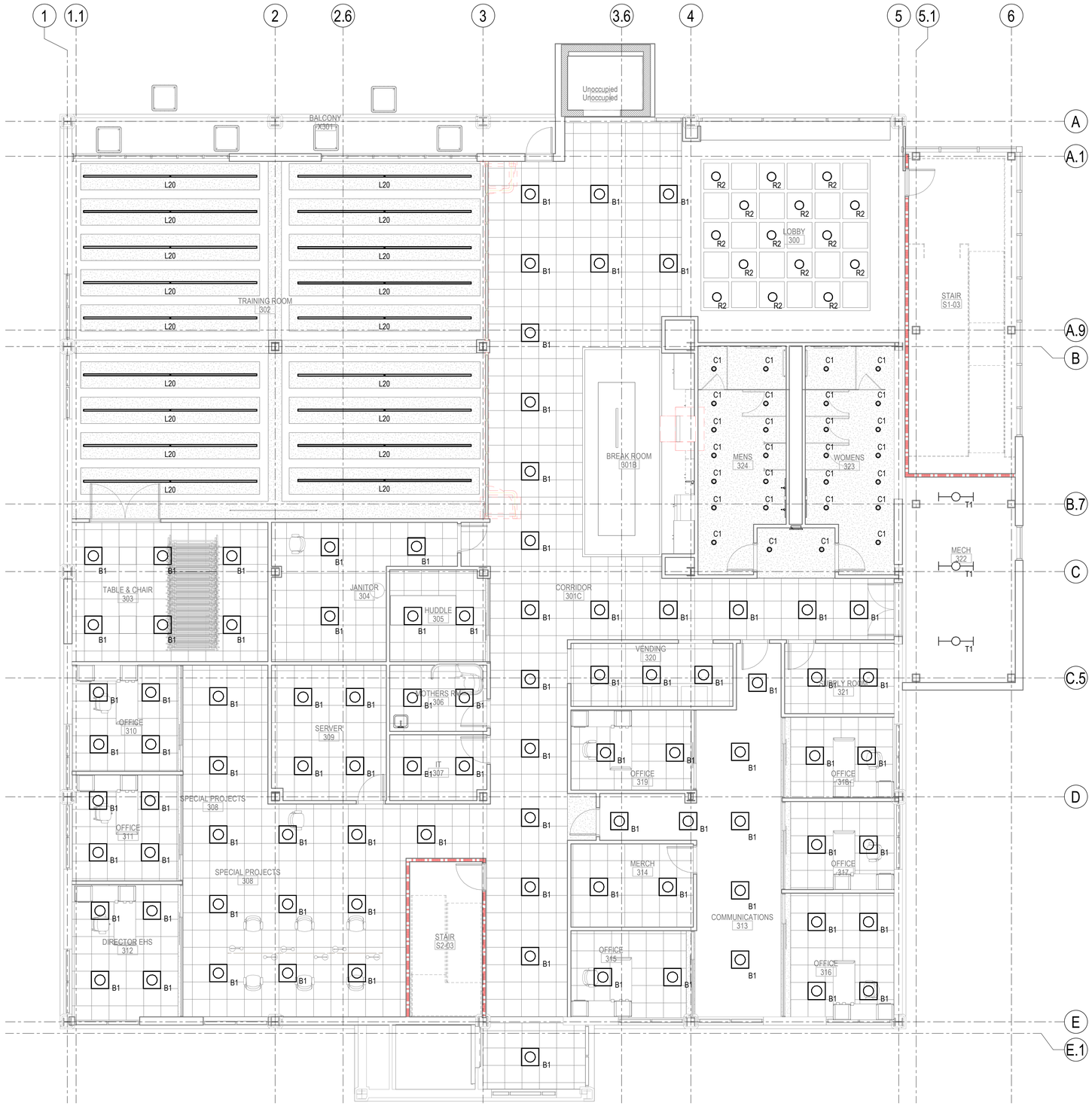

1 THIRD FLOOR LIGHTING PLAN

3/16" = 1'-0"

GENERAL NOTES:

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Date March 28, 2025

Title THIRD FLOOR LIGHTING PLAN

Sheet No. **EL103**

Project Name
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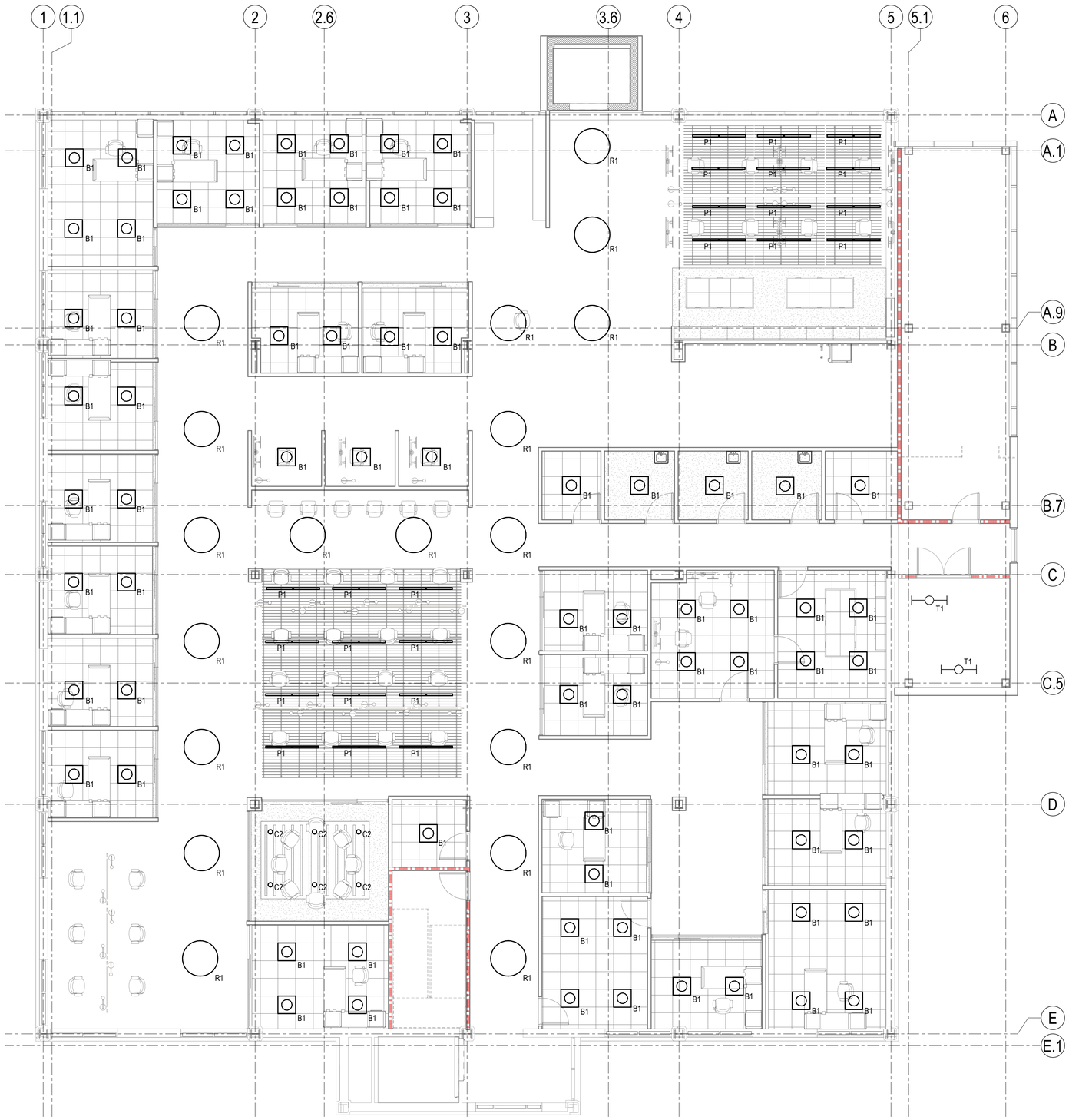

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3/16" = 1'-0"

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Date March 28, 2025

Title FOURTH FLOOR LIGHTING PLAN

Sheet No. **EL104**

Project Norm
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1 GROUND FLOOR POWER PLAN
3/16" = 1'-0"

GENERAL NOTES:

A. X

B. X

KEYED NOTES:

1. X
2. X

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Job No. CENTRA24.00

Date March 28, 2025

Title

GROUND FLOOR POWER PLAN

Sheet No.

EP101

Project Name
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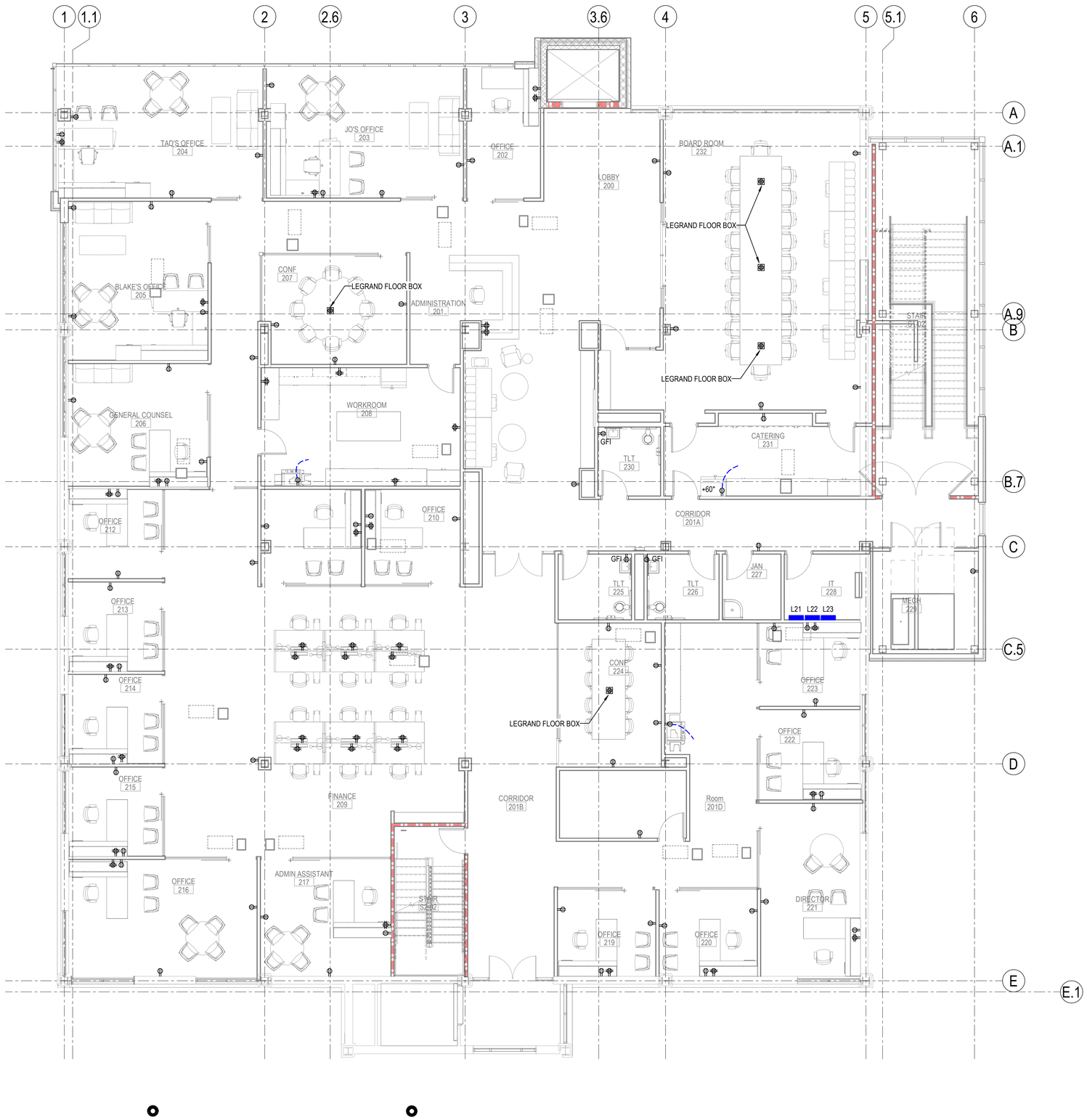

1 SECOND FLOOR POWER PLAN
3/16" = 1'-0"

GENERAL NOTES:

A. X

B. X

KEYED NOTES:

1. X
2. X

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Job No. CENTRA24.00

Date March 28, 2025

Title

SECOND FLOOR POWER PLAN

Sheet No.

EP102

Project Name
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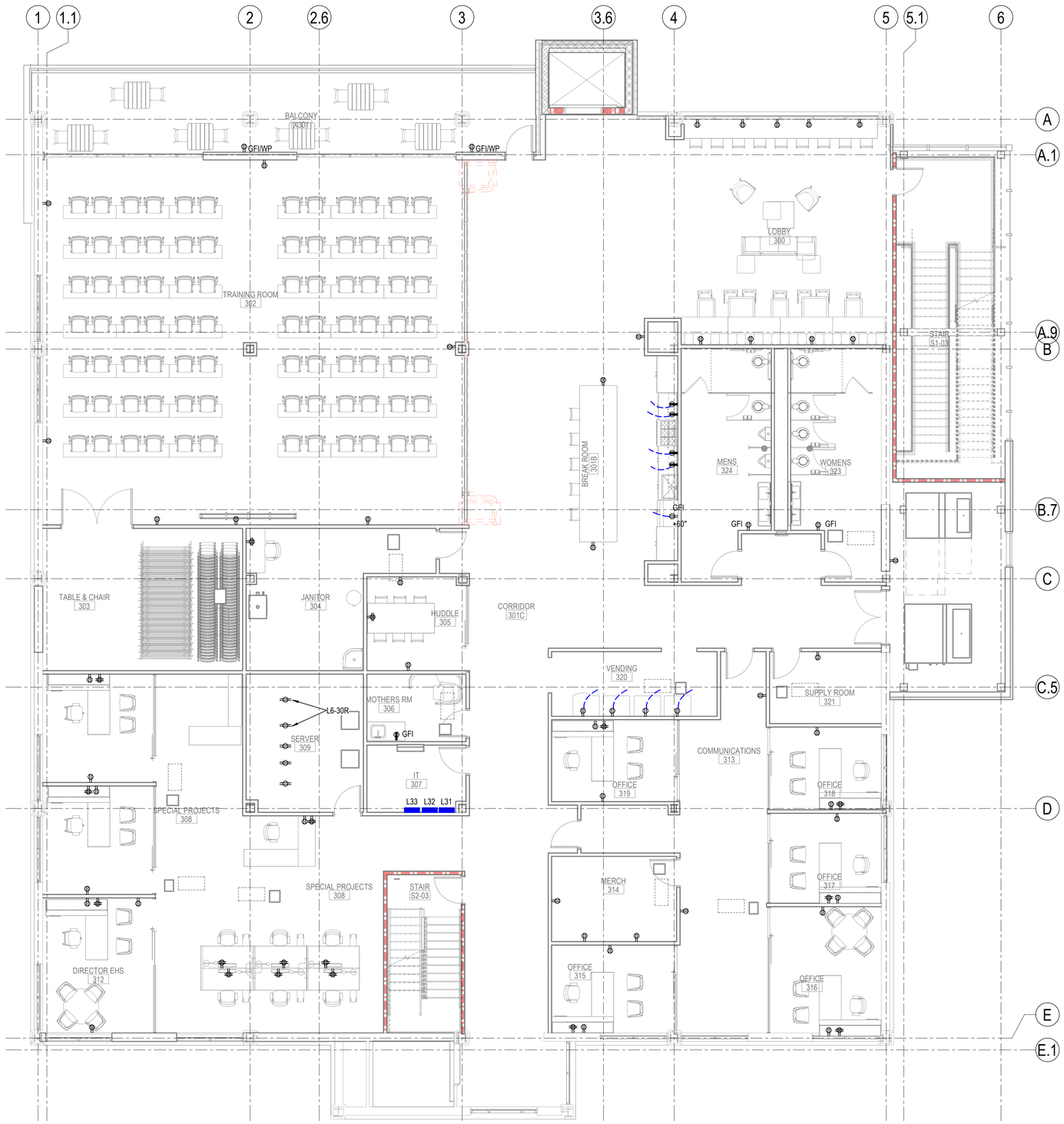

1 THIRD FLOOR POWER PLAN
3/16" = 1'-0"

GENERAL NOTES:

A. X

B. X

KEYED NOTES:

1. X
2. X

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Date March 28, 2025

Title THIRD FLOOR POWER PLAN

Sheet No. **EP103**

Project Name
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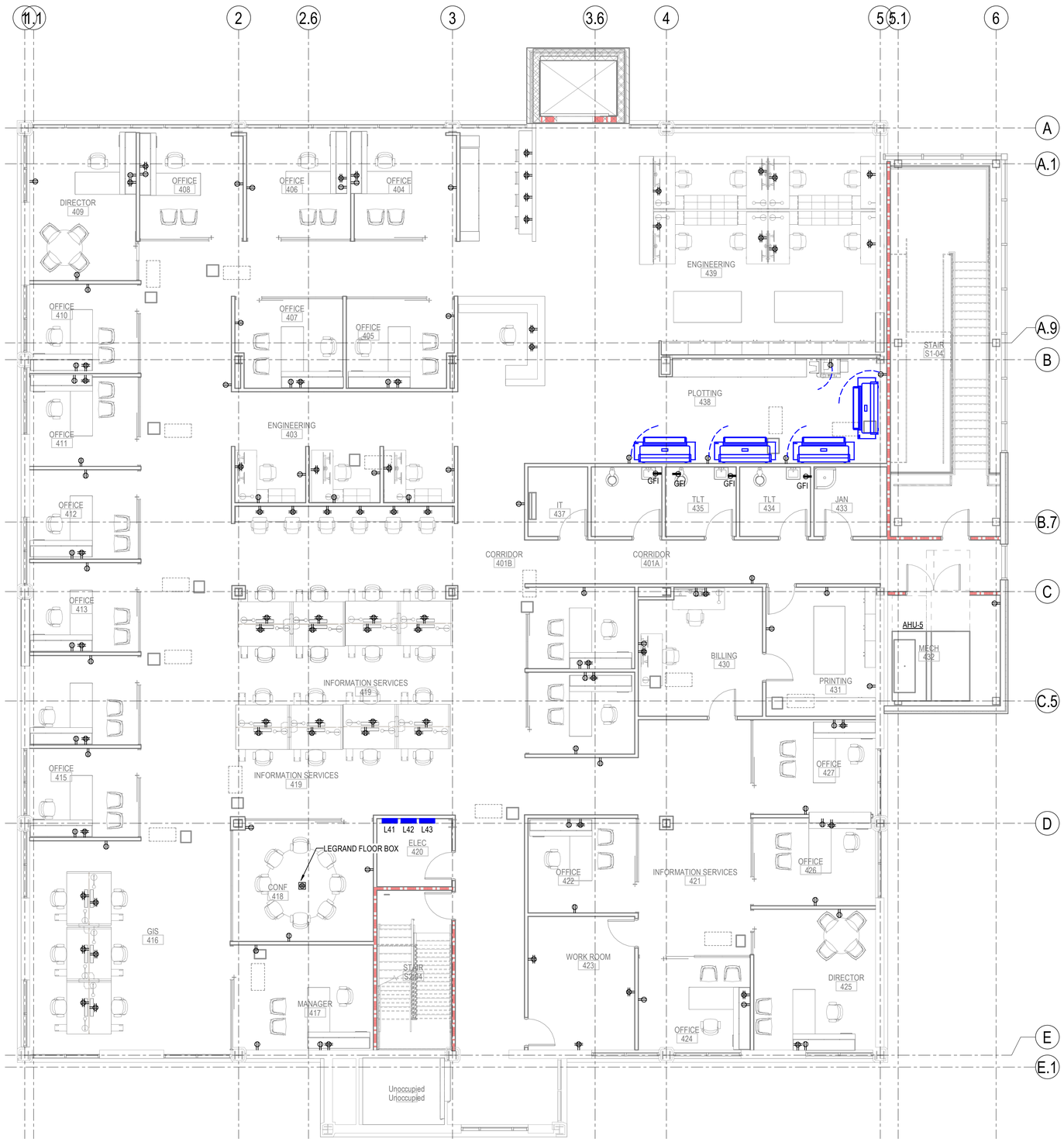

1 FOURTH FLOOR POWER PLAN
3/16" = 1'-0"

GENERAL NOTES:

A. X

B. X

KEYED NOTES:

1. X
2. X

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Date March 28, 2025

Title

FOURTH FLOOR POWER PLAN

Sheet No.

EP104

Project Name
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3/27/2025 11:30:06 PM

1 GROUND FLOOR SYSTEMS PLAN
3/16" = 1'-0"

GENERAL NOTES:

A. X

B. X

KEYED NOTES:

1. X
2. X

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Job No. CENTRA24.00

Date March 28, 2025

Title

GROUND FLOOR SYSTEMS PLAN

Sheet No.

ET101

Project Name
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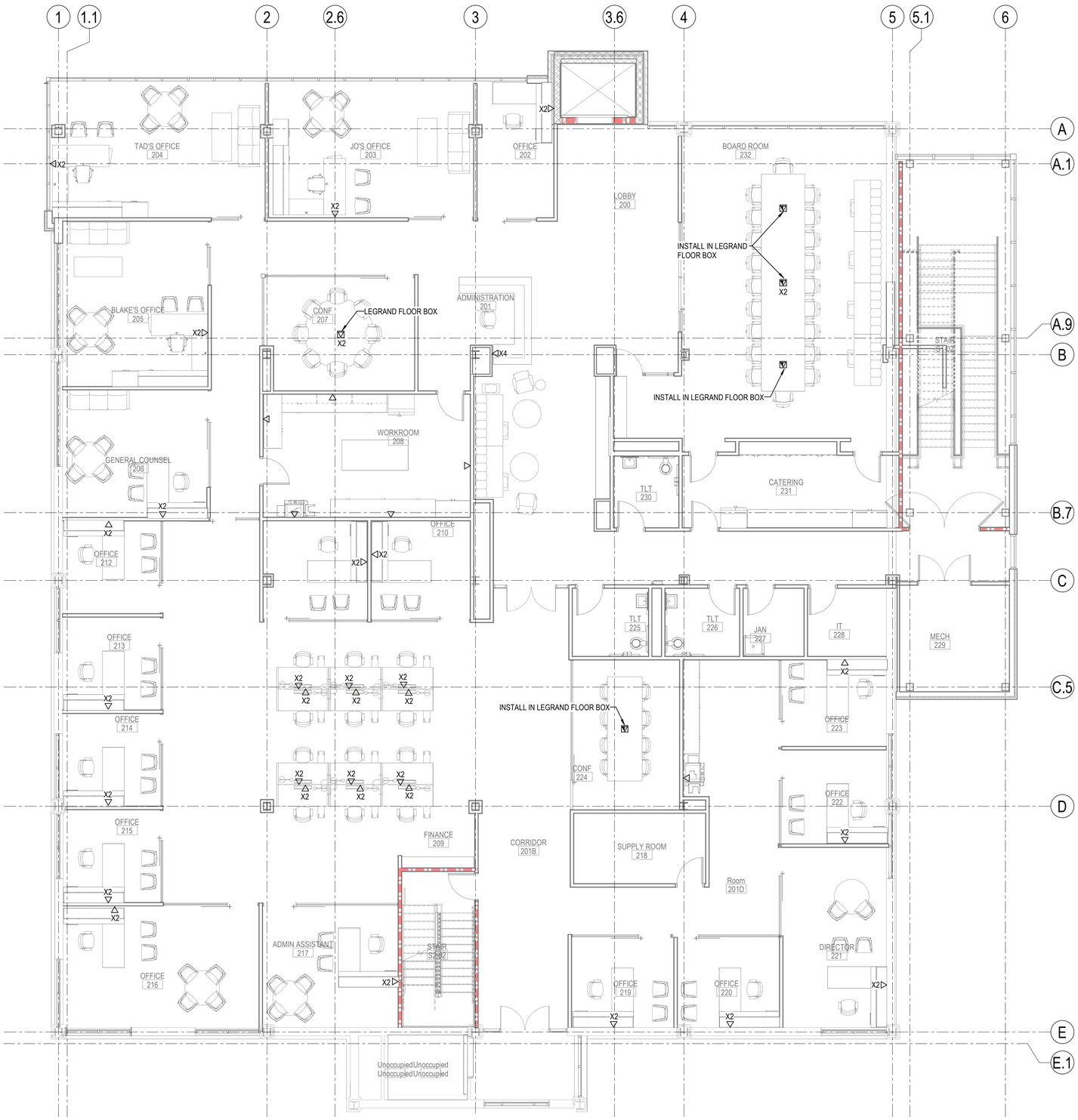

1 SECOND FLOOR SYSTEMS PLAN
3/16" = 1'-0"

GENERAL NOTES:

A. X

B. X

KEYED NOTES:

1. X
2. X

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SECOND FLOOR SYSTEMS PLAN

Sheet No.

ET102

Project Name
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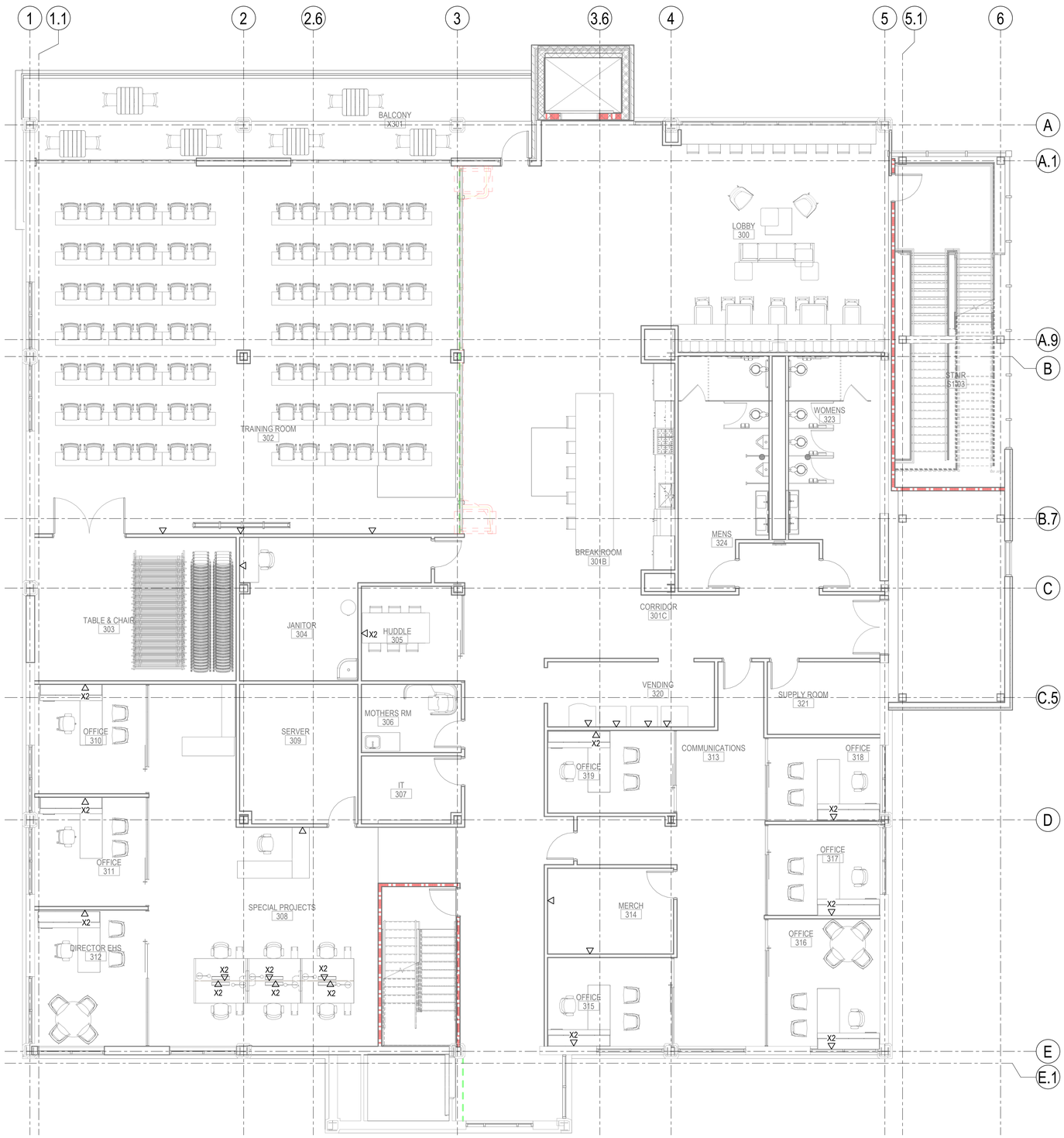

1 THIRD FLOOR SYSTEMS PLAN
3/16" = 1'-0"

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Date March 28, 2025

Title THIRD FLOOR SYSTEMS PLAN

Sheet No. **ET103**

Project Name
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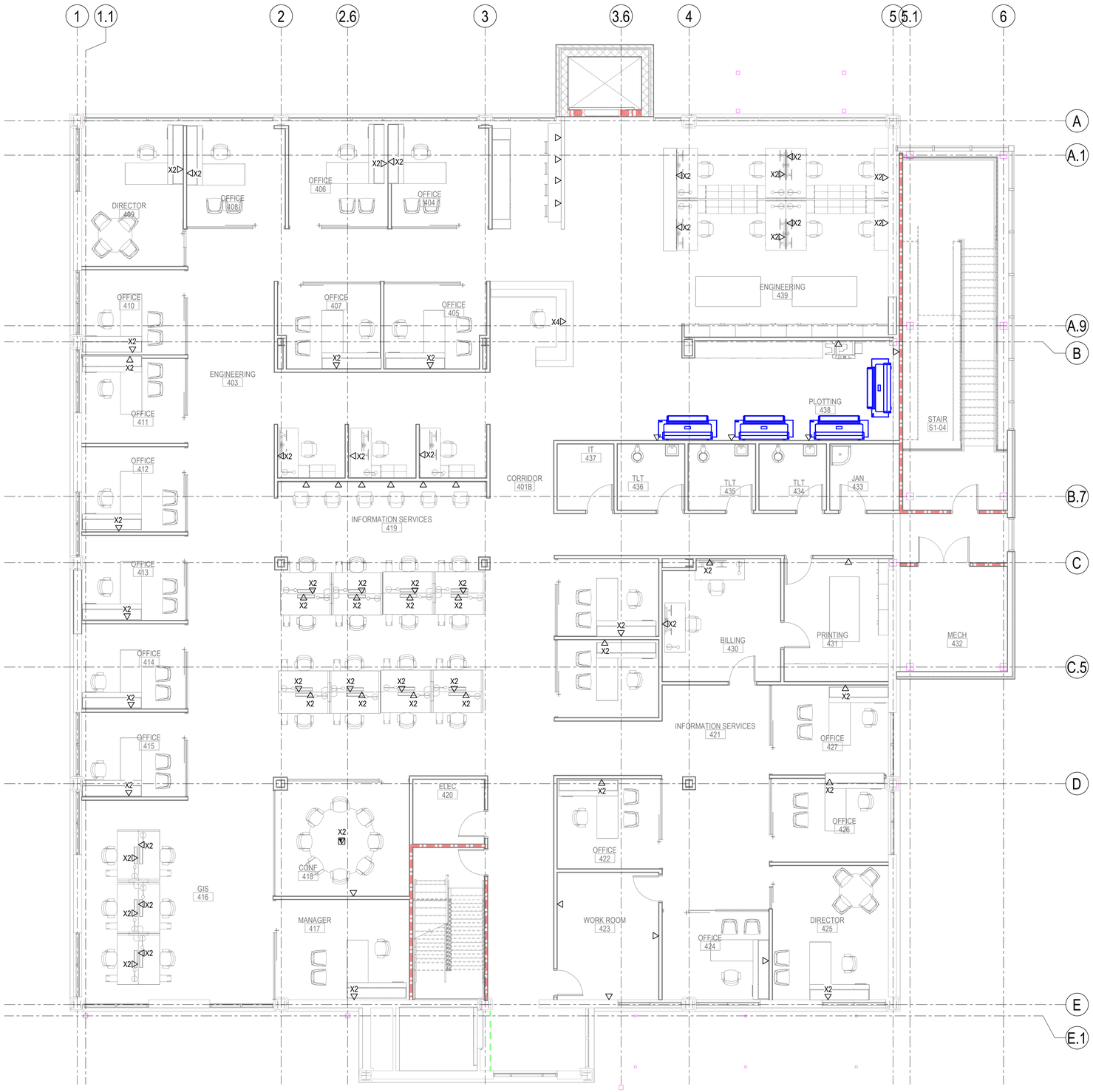

1 FOURTH FLOOR SYSTEMS PLAN
3/16" = 1'-0"

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Job No. CENTRA24.00

Date March 28, 2025

Title FOURTH FLOOR SYSTEMS PLAN

Sheet No. **ET104**

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ABBREVIATIONS

&	AND	GPM	GALLONS PER MINUTE
Ø	ROUND	HD	HEAD
/R	ON ROOF	H.P.	HIGH PRESSURE
A	AIR	HTG	HEATING
AB	ABOVE BASE	IN	INCH
ABV	ABOVE	INL	INLET
ACOUS	ACOUSTICAL	INSUL	INSULATION
ADD	ADDENDUM	INWG	INCHES WATER GAUGE
ADDL	ADDITIONAL	ITC	INSPECTOR TEST CONNECT
AFF	ABOVE FINISHED FLOOR	JT	JOINT
AG	ABOVE GROUND	LAB	LABORATORY
AHJ	AUTHORITY HAVING JURISDICTION		
ALT	ALTERNATE	LB	POUND
ALV	ALARM VALVE	LB/HR	POUNDS PER HOUR
ALUM	ALUMINUM	LF	LINEAL FOOT
AP	ACCESS PANEL	LOC	LOCATION
ARCH	ARCHITECT/ARCHITECTURAL	LP	LOW PRESSURE
AUTO	AUTOMATIC	MA	MIXED AIR
AUX	AUXILLARY DRAIN	MAN	MANUAL
BFF	BELOW FINISHED FLOOR	MAX	MAXIMUM
BFV	BUTTERFLY VALVE	MD	MOTORIZED DAMPER
BSMT	BASEMENT	MFR	MANUFACTURER
BTWN	BETWEEN	MIN	MINIMUM
CAP	CAPACITY	MISC	MISCELLANEOUS
CFCV	CONSTANT FLOW CNTRL. VL.	MRA	MOST HYDRAULICALY DEMANDING AREA
CFM	CUBIC FEET PER MINUTE		
CI	CAST IRON	NIC	NOT IN CONTRACT
CIS	COMMON INTELLIGIBILITY SYS.	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CEG	CEILING		
COL	COLUMN	NP	NOT POTABLE
COMB	COMBINATION	NTS	NOT TO SCALE
CONC	CONCRETE	O	OXYGEN
CONT	CONTINUE/CONTINUATION	OPNG	OPENING
COORD	COORDINATE	PD	PRESSURE DROP
COR	CONTRACTING OFFICER'S REP.	PIV	POST INDICATOR VALVE
CTR	CENTER	PR	PAIR
CUFT	CUBIC FEET	PREL	PRELIMINARY
D/°	DEGREE	PS	PRESSURE
DCA	DETECTOR CHECK ASSY.	PRIM	PRIMARY
DDCA	DOUBLE DETECTOR CK. ASSY.	PRV	PRESS. REDUCING VALVE
DIA	DIAMETER	PSI	LBS. PER SQ. IN.
DI	DUCTILE IRON	PSIG	LBS. PER SQ. IN. GAUGE
DISCH	DISCHARGE	PW	POTABLE WATER
DMPR	DAMPER	REC	RECESSED
DN	DOWN	RED	REDUCER
DWG	DRAWING	REQD	REQUIRED
EA	EACH	SF	SQUARE FOOT
ECS	EMERGENCY COMM. SYSTEM	SD	SMOKE DAMPER
EAH	EXHAUST HOOD	SIM	SIMILAR
EX	EXISTING	SLV	SLEEVE
EXP	EXPANSION	SP	STATIC PRESSURE
EXPJT	EXPANSION JOINT	SPS	STATIC PRESSURE STATION
ESP	EXTERNAL STATIC PRESSURE	SQ	SQUARE
F°	DEGREES FAHRENHEIT	SS	STAINLESS STEEL
FD	FIRE DAMPER	STD	STANDARD
FDV	FIRE DEPARTMENT VALVE	T	THERMOSTAT
FHR	FIRE HOSE STATION	SYS	SYSTEM
FHV	FIRE HOSE VALVE	TCP	TEMP. CONTROL PANEL
FPI	FINS PER INCH	TD	TEMPERATURE DROP
FLEX	FLEXIBLE	TEMP	TEMPERATURE
FLG	FLANGE	TSP	TOTAL STATIC PRESSURE
FT	FOOT/FEET	TYP	TYPICAL
FTG	FOOTING	U/G	UNDER GROUND
FUT	FUTURE	U/S	UNDER SLAB
GAL	GALLON	UNO	UNLESS NOTED OTHERWISE
GALV	GALVANIZED	VL	VALVE
GEN	GENERATOR		
GENL	GENERAL		

EQUIPMENT ABBREVIATIONS

DBP	DOMESTIC WATER BOOST PUMP	FDCP	F.A. ACCESS PANEL
DCA	DETECTOR CHECK ASSY.	FMCP	F.A. MASS NOTIFICATION PNL.
DDCA	DOUBLE DETECTOR CHECK ASSY.	FAA	F.A. ANNUNCIATOR PNL.
FHR	FIRE HOSE STATION	LOC	LOCAL OPERATOR CONSOLE
F.A.	FIRE ALARM	NRSV	NON-RISING STEM VALVE
FPU	FIRE PUMP	ITC	INSPECTOR'S TEST
FDC	FIRE DEPARTMENT CONTROL	PNL	PANEL

FIRE ALARM PHASING

NEW CONSTRUCTION FIRE EQUIPMENT (TYPICAL TAG FOR ALL NEW CONSTRUCTION)
FACP

EXISTING FIRE ALARM EQUIPMENT (TYPICAL FOR ALL EXISTING TAGS)
(E)FACP

FIRE ALARM EQUIPMENT FOR DEMOLITION (TYPICAL FOR ALL DEMOLITION TAGS)
(D)FACP

FIRE ALARM SHEET SET NOTE

* NOTE *

ALL GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THE CONTAINED REFERENCE DRAWINGS.

FIRE ALARM DEVICE MOUNTING NOTE

WALL MOUNTED VISUAL DEVICES TO BE LOCATED SUCH THAT THE ENTIRE LENS OF THE STROBE IS BETWEEN 80" AND 96" AFF. ALL WALL MOUNTED NOTIFICATION DEVICES SHALL BE MOUNTED AT THE SAME HEIGHT AFF TO ACHIEVE A UNIFORM APPEARANCE OR AS DIRECTED BY THE A/E. WATTAGE AND CANDELA ARE GUIDELINES. CONTRACTOR RESPONSIBLE FOR FINAL SPACING AND TOTAL DEVICE POWER.

SYMBOL	DESCRIPTION
15 C	CEILING MOUNT HORN AND CLEAR STROBE, 15 CANDELA UNLESS NOTED OTHERWISE
15	WALL MOUNT SPEAKER AND CLEAR STROBE, 15 CANDELA UNLESS NOTED OTHERWISE
15	CEILING MOUNT CLEAR STROBE, 15 CANDELA UNLESS NOTED OTHERWISE
15	WALL MOUNT CLEAR STROBE, 15 CANDELA UNLESS NOTED OTHERWISE
H	HORN

GENERAL SYMBOLS

REVISION NUMBER SHOWN ON PLANS

POINT WHERE NEW CONNECTS TO EXISTING

DEMOLISH TO POINT INDICATED

1 FX001 — NUMBER OF DETAIL ON SHEET NUMBER OF SHEET WHERE DETAIL APPEARS

1 — KEYED NOTE

PIPE CONTINUATION

SPACE TAG:
OFFICE — SPACE NAME
101 — SPACE NUMBER

ITEM TO BE DEMOLISHED

AREA NOT IN CONTRACT

FIRE ALARM DEVICES

— FIRE ALARM CONTROL PANEL; FIRE ALARM PANEL TYPE

CONTROL PANELS ABBREVIATIONS:

APM	AMPLIFIER RACK
ACU	AUTONOMOUS CONTROL UNIT
BATT	BATTERY CABINET
FMCP	COMBI. FIRE ALARM/MASS NOTIFICATION CONTROL
DACT	DIGITAL ALARM COMMUNICATOR TRANSMITTER
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL
FSCP	FIRE SUPPRESSION CONTROL
GAP	GRAPHIC ANNUNCIATOR
LCD	LCD ANNUNCIATOR
LOC	LOCAL OPERATORS CONTROL
NAC	NOTIFICATION CIRCUIT POWER BOOSTER
PRE	PRE-ACTION SYSTEM
PRN	PRINTER
MIC	REMOTE VOICE
UPS	UNINTERRUPTABLE POWER SUPPLY
EVAC	VOICE EVACUATION

F, ### — FIRE ALARM ABORT SWITCH; FIRE ALARM ABORT SWITCH TYPE

ABORT SWITCH ABBREVIATIONS:

AS	ABORT SWITCH
CO2	CARBON DIOXIDE
CA	CLEAN AGENT
DL	DELUGE SPRINKLER
DC	DRY CHEMICAL
EPO	EMERGENCY POWER OFF
F	FOAM
HL	HALON
PRE	PREACTION SYSTEM
WM	WATER MIST
WC	WET CHEMICAL

F, ### — FIRE ALARM PULL STATION; PULL STATION TYPE

PULL STATION ABBREVAITIONS:

CO2	CARBON DIOXIDE
CA	CLEAN AGENT
DL	DELUGE SPRINKLER
DC	DRY CHEMICAL
F	FOAM
HL	HALON
M	MANUAL
P	PULL STATAION
WM	WATER MIST
WC	WET CHEMICAL

SYMBOL	DESCRIPTION
S P	SPOT-TYPE SMOKE DETECTOR (P-PHOTO, I-IONIZATION, SB-SOUNDER BASE, PRE-PHOTO PREACTION RELEASE)
S S	DUCT SMOKE DETECTOR (S-SUPPLY, R-RETURN)
	HEAT DETECTOR (FIXED TEMPERATURE)
F	MANUAL PULL STATION (44" AFF UNLESS NOTED OTHERWISE)
WF	WATER FLOW SWITCH
VS	VALVE SUPERVISORY (TAMPER) SWITCH
PRE	DOUBLE INTERLOCK PREACTION CABINET
DH	DOOR HOLD OPEN MODULE. PROVIDE FIRE ALARM LISTED HOLD-OPEN ASSEMBLY IF NOT CALLED OUT IN DOOR HARDWARE SCHEDULE.
E	ELECTRIC BELL FOR WATER FLOW. INSTALL AT 9"+/- ABOVE FINISHED GRADE OR AS DIRECTED BY FIRE MARSHAL.
AIM	ADDRESSABLE MODULE (AIM - INPUT, AOM - OUTPUT, AIO - INPUT/OUTPUT)
K	KNOX BOX WITH FIRE ALARM TAMPER SWITCH

GENERAL

1. FIRE ALARM SYSTEM AND DEVICES SHALL BE INSTALLED TO THE LATEST EDITION OF NFPA 72, NFPA 70, AND LOCAL REQUIRMENTS.
2. ALL FIRE ALARM INSTALLATIONS, INCLUDING PULLING OF WIRE AND MOUNTING OF DIVICES, SHALL HAVE OVERSIGHT OF A NICET LEVEL II FIRE ALARM TECHNICIAN OR HIGHER.
3. STROBES SHALL BE SYNCHRONIZED PER NFPA 72.
4. ALL FIRE ALARM CABLE SHALL BE RUN IN RED FACTORY COLORED CONDUIT.
5. THESE DESIGN DOCUMENTS PROVIDE GENERAL SPACING, LOCATION, AND COORDINATION CRITERIA. CONTRACTOR SHALL BE RESPONSIBLE FOR CIRCUIT CONFIGURATION, SYSTEM PERFORMANCE, SOFTWARE CONFIGURATION, DEVICE PROGRAMMING, SYSTEM COMMISSIONING, AND SYSTEM WARRANTY.
6. CONTRACTOR SHALL SUBMIT FIRE ALARM, DATA CUT-SHEETS, AND VOLTAGE DROP CALCULATIONS TO AHJ AND A/E FOR REVIEW AND APPROVAL PRIOR TO BEGINNING ANY WORK ON THE FA SYSTEM.
7. NO FA DOCUMENTS/PLANS SHALL BE USED FOR INSTALLATION OF THIS SYSTEM UNLESS THEY CONTAIN A REVIEW AND APPROVAL STAMP FROM THE AHJ AND THE A/E. THE LOCAL AHJ HAS THE AUTHORITY TO STOP ANY WORK UNTIL SUCH PLANS ARE ON SITE AND IN USE.
8. SEPARATE FIRE ALARM SPECIFICATIONS CONTAIN VERY DETAILED INFORMATION ABOUT THIS SYSTEM AND SHALL BE FOLLOWED, ON-SITE AND AVAILABLE DURING ANY CONSTRUCTION.
9. SECONDARY POWER PERFORMANCE TO MEET NFPA 72. 24 HOURS OF STANDBY POWER FOLLOWED BY 15 MINUTES OF ALARM FOR ALL CONNECTED DEVICES AT MAXIMUM LOAD. SECONDARY POWER FOR THE SYSTEM SHALL ALSO BE DESIGNED TO OPERATE MAXIMUM CONNECTER ALARM LOAD FOR 60 MINUTES IMMEDIATELY FOLLOWING DISCONNECTION OF PRIMARY POWER.
10. CIRCUITS TO BE 24V TYPICAL.
11. ALL NEW SYSTEMS AND DEVICES MUST INTERFACE WITH APPLICABLE EXISTING SYSTEMS. SHELL PANEL AND DEVICES MUST COMMUNICATE WITH EXISTING SITE FIRE ALARMS AND TENANT FINISH DEVICES MUST INTERFACE WITH EXISTING SHELL PANEL AND SYSTEMS.

LOCATION / SPACING

1. IN ACCORDANCE WITH 2019 NFPA 72, STROBES MAY BE MORE THAN 15 FEET FROM THE END OF A CORRIDOR WHEN ROOM SPACING CRITERIA APPLIES USING THE APPROPRIATE CANDELA.
2. WALL MOUNTED SPEAKER, STROBES, OR SPEAKER/STROBES SHALL BE AT 96" OR 6" BELOW THE CEILING, WHICHEVER IS LOWER.
3. ALL SMOKE DETECTORS SHALL BE LOCATED WHERE THEY CAN BE READILY SERVICED.
4. ALL SMOKE DETECTORS SHALL BE CEILING MOUNTED OR WITHIN 12" OF THE CEILING.
5. SMOKE DETECTORS SHALL NOT BE INSTALLED WITHIN 3' OF AN AIR-SUPPLY OR RETURN GRILLE PER MFG CRITERIA AND APPENDIX 'A' OF NFPA 72.
6. EACH POWER BOOSTER PANEL OR FIRE ALARM PANEL SHALL BE PROTECTED BY A SMOKE DETECTOR. WHEN PROVIDED, AREA DETECTORS WITHIN THE SAME SPACE WILL SATISFY THIS REQUIREMENT.
7. AIR HANDLER SYSTEMS OVER 2,000 CFM SHALL BE PROVIDED WITH MEANS TO SHUT DOWN UPON THE DETECTION OF SMOKE. THESE DETECTORS SHALL NOT INITIATE A GENERAL FIRE ALARM.
8. DAMPER AND HVAC SMOKE DETECTORS SHALL BE PROVIDED BY THE FIRE ALARM CONTRACTOR, LISTED WITH THE FIRE ALARM SYSTEM, AND INCORPORATE ADDRESSABLE MODULES.
9. WHERE APPLICABLE, SMOKE DETECTORS FOR AIR-HANDLER SHUT DOWN SHALL BE ON BOTH SUPPLY AND RETURN DUCTS.
10. WALL MOUNTED VISUAL DEVICES TO BE LOCATED SUCH THAT THE ENTIRE LENS OF THE STROBE IS BETWEEN 80" AND 96" AFF. ALL WALL MOUNTED NOTIFICATION DEVICES SHALL BE MOUNTED AT THE SAME HEIGHT AFF TO ACHIEVE A UNIFORM APPEARANCE OR AS DIRECTED BY THE A/E. WATTAGE AND CANDELA ARE GUIDELINES. CONTRACTOR RESPONSIBLE FOR FINAL SPACING AND TOTAL DEVICE POWER.

PERFORMANCE

1. ANY SMOKE DETECTOR THAT HAS BEEN INSTALLED PRIOR TO THE CONSTRUCTION CLEANUP OF ALL TRADES AND WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER AND LOCAL AHJ SHALL BE MARKED IN A MANNER THAT WILL IDENTIFY IT FROM RE-USE AND SHALL BE REPLACED PRIOR TO COMMISSIONING OF THE SYSTEM OR TURNING OVER TO THE OWNER. SUCH DETECTORS SHALL BE REPLACED AT THE SOLE EXPENSE OF THE INSTALLING CONTRACTOR.
2. DUCT DETECTORS SHALL BE MONITORED FOR INTEGRITY AND PROVIDE A SUPERVISORY SIGNAL AT THE FIRE ALARM PANEL. AIR HANDLER SYSTEMS SHALL BE RAN AND BLOWN OUT PRIOR TO INSTALLATION OF SMOKE DETECTORS.
3. FIRE ALARM AUDIBLE ALERT SIGNALS SHALL BE SET TO TEMPORAL CODE PER NFPA 72.
4. UNLESS OTHERWISE NOTED THE FOLLOWING MINIMUM SURVIVABILITY CRITERIA SHALL BE MET: SIGNALING LINE CIRCUITS CLASS "B", AND NOTIFICATION CIRCUITS CLASS "B".
5. INITIATING DEVICES SHALL BE INDIVIDUALLY ADDRESSABLE.

ACCEPTANCE TESTING

1. A COMPLETED AND SIGNED RECORD (CERTIFICATE) OF COMPLETION FORM SHALL BE PROVIDED BY THE CONTRACTOR TO THE AHJ, OWNER, AND A/E PRIOR TO COMMISSION TESTING. THIS CERTIFICATE SHALL CERTIFY THAT THE CONTRACTOR HAS PRE-TESTED EVERY DEVICE AND FUNCTION OF THE SYSTEM AND REPAIRED ANY DEFICIENCIES PRIOR TO THE COMMISSIONING TEST.
2. ALL SMOKE DETECTORS SHALL BE COMMISSIONED USING CANNED SMOKE OR A METHOD THAT WILL FUNCTIONALLY TEST THE SMOKE CHAMBER. THE USE OF MAGNETS FOR COMMISSION TESTING OF SMOKE DETECTORS IS STRICTLY PROHIBITED.
3. EACH AND EVERY DEVICE SHALL BE TESTED DURING COMMISSIONING AND PRIOR TO BEING TURNED OVER TO THE OWNER.
4. EACH NOTIFICATION CIRCUIT SHALL BE TESTED UNDER STANDBY/BATTERY POWER. ANY CIRCUIT THAT MEASURES LESS THAN 20 VOLTS DC OR THE NAMEPLATE VOLTAGE, WHICHEVER IS HIGHER, SHALL BE CONSIDERED AS FAILING THE DESIGN. NOTE: SOME SYSTEMS INCORPORATING SYNCHRONIZING MODULES CAN IMPAIR RESULTS. IF THE MODULE CANNOT BE BYPASSED FOR VOLTAGE READINGS, THE MANUFACTURER SHOULD BE CONTACTED FOR GUIDANCE. WHEN VOLTAGE CANNOT BE MEASURED, CIRCUIT WIRE RESISTANCE READINGS AND DEVICE LOAD MAY BE COMPARED TO DESIGN CALCULATIONS (MAKE SURE CIRCUIT IS REMOVED FROM POWER SUPPLY WHEN OBTAINING WIRE RESISTANCE). ONLY A QUALIFIED TECHNICIAN EMPLOYED BY THE INSTALLING CONTRACTOR SHOULD PERFORM THIS FUNCTION.
5. EACH CIRCUIT'S END-OF-LINE VOLTAGE SHALL BE DOCUMENTED FOR COMPARISON TO THE DESIGN END-OF-LINE CALCULATIONS.

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DESIGN DEVELOPMENT

No	Issue	Date
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Job No. CENTRA24.00

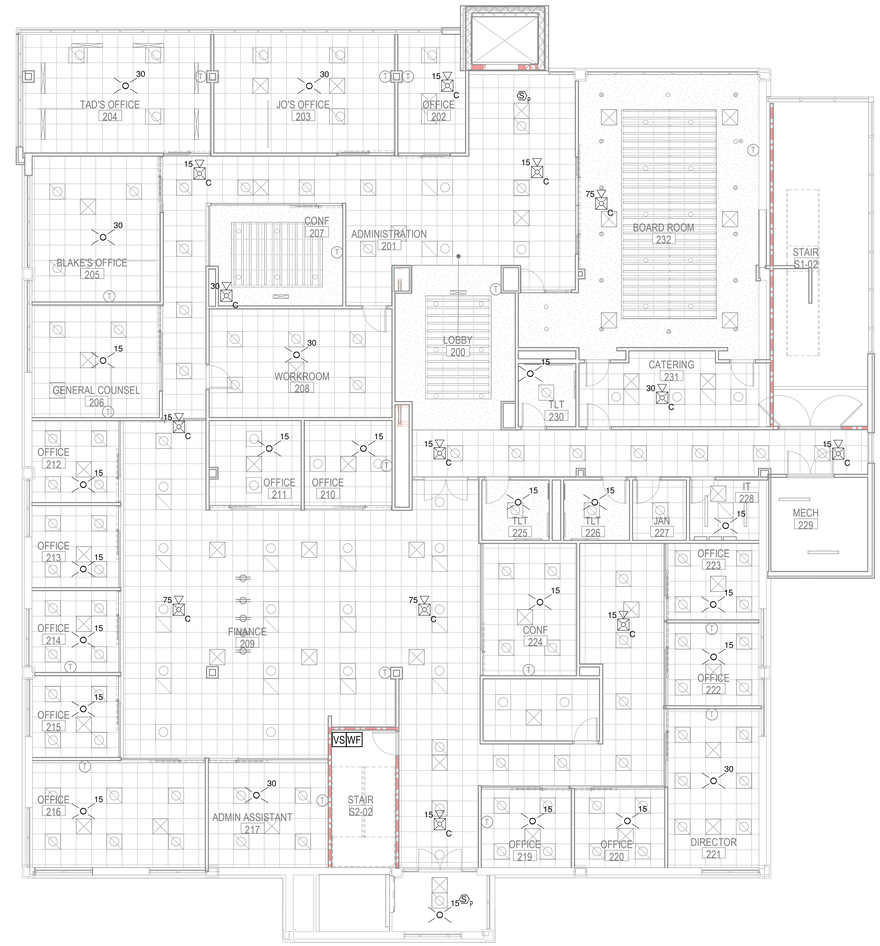
Date March 28, 2025

Title FIRE ALARM LEGEND AND NOTES

Sheet No. **FA001**

Project Name
Autodesk Docs://Central Arkansas Water,JTH Building Renovations/2024-1196-FirePro.rvt
3/27/2025 3:57:00 PM

1 FIRE ALARM FIRST FLOOR PLAN
1/8" = 1'-0"



2 FIRE ALARM SECOND FLOOR PLAN
1/8" = 1'-0"

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DESIGN DEVELOPMENT

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-		

Job No. CENTRA24.00

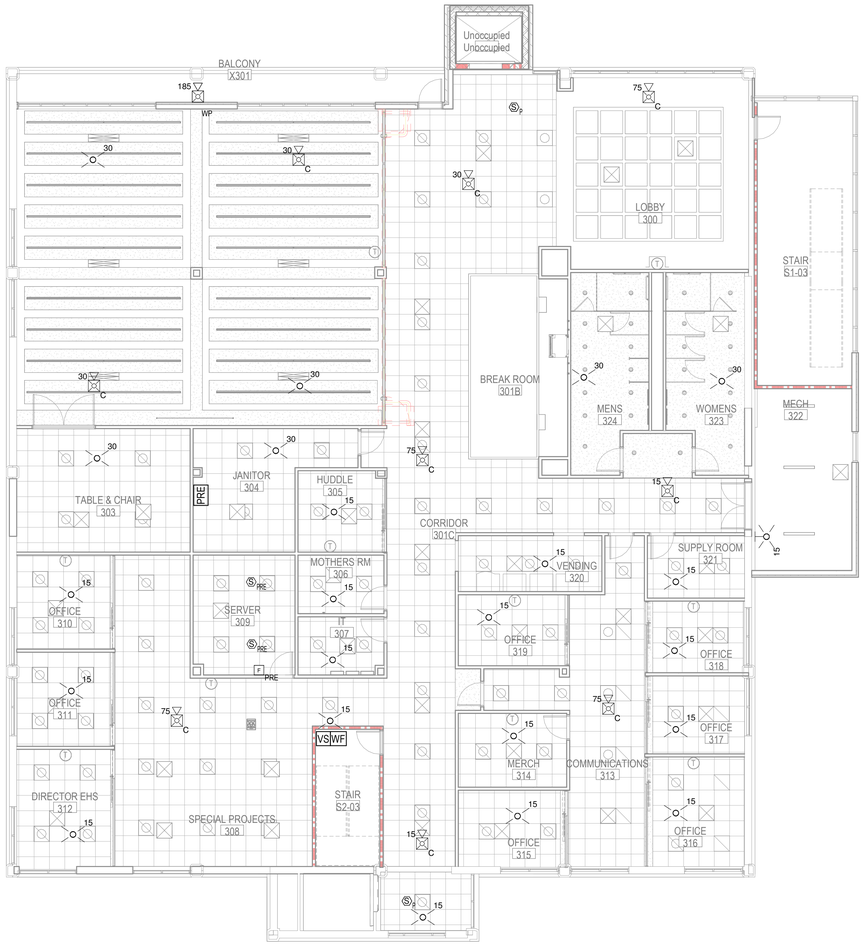
Date March 28, 2025

Title
FIRE ALARM FIRST & SECOND FLOOR PLAN

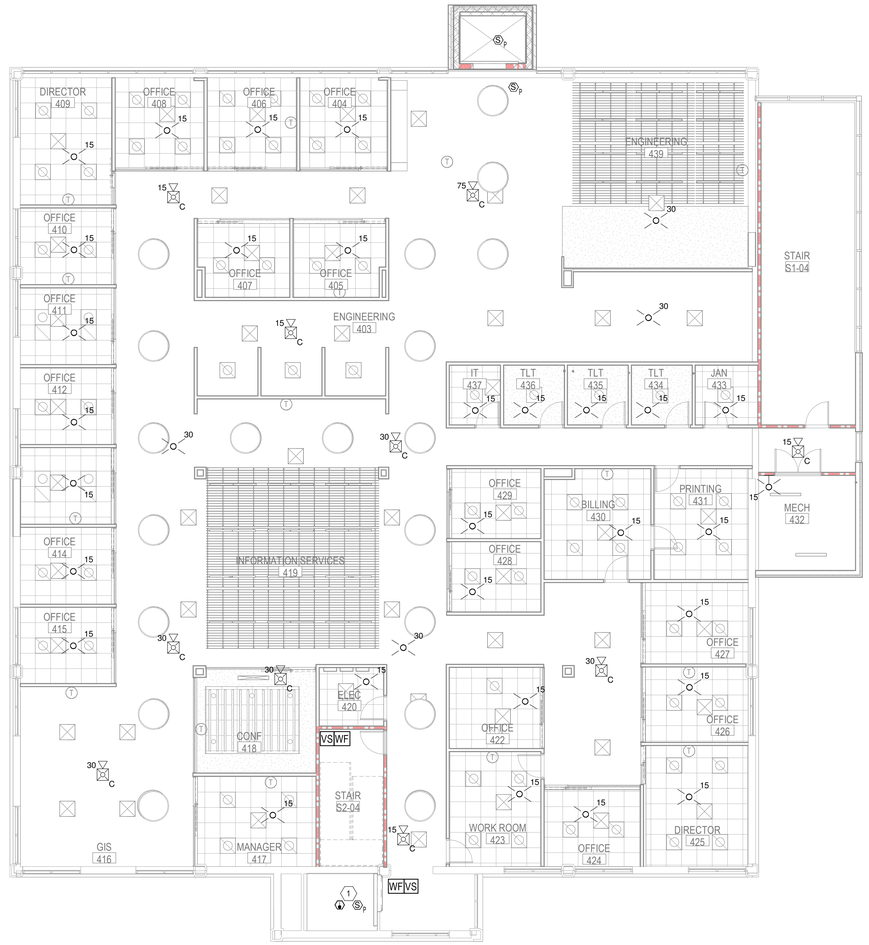
Sheet No.
FA101

Project Norm
Autodesk Docs://Central Arkansas Water -JTH Building Renovations/2024-196-FireProt.rvt
3/27/2025 3:57:03 PM

1 A SMOKE DETECTOR AND A FIXED TEMPERATURE HEAT DETECTOR SHALL BE INSTALLED WITHIN 2FT OF EACH SPRINKLER HEAD AT TOP OF ELEVATOR SHAFT. FIXED TEMPERATURE HEAT DETECTOR SHALL ACTIVATE THE SHUNT TRIP BEFORE SPRINKLER WATER FLOW.



1 FIRE ALARM THIRD FLOOR PLAN
1/8" = 1'-0"



2 FIRE ALARM FOURTH FLOOR PLAN
1/8" = 1'-0"

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DESIGN DEVELOPMENT

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Job No. CENTRA24.00

Date March 28, 2025

Title FIRE ALARM THIRD & FOURTH FLOOR PLAN

Sheet No. **FA102**

Project Name
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ABBREVIATIONS

&	AND	GPM	GALLONS PER MINUTE
Ø	ROUND	HD	HEAD
/R	ON ROOF	H.P.	HIGH PRESSURE
A	AIR	HTG	HEATING
AB	ABOVE BASE	IN	INCH
ABV	ABOVE	INL	INLET
ACOUS	ACOUSTICAL	INSUL	INSULATION
ADD	ADDENDUM	INWG	INCHES WATER GAUGE
ADDL	ADDITIONAL	ITC	INSPECTOR TEST CONNECT
AFF	ABOVE FINISHED FLOOR	JT	JOINT
AG	ABOVE GROUND	LAB	LABORATORY
AHJ	AUTHORITY HAVING JURISDICTION		
ALT	ALTERNATE	LB	POUND
ALV	ALARM VALVE	LB/HR	POUNDS PER HOUR
ALUM	ALUMINUM	LF	LINEAL FOOT
AP	ACCESS PANEL	LOC	LOCATION
ARCH	ARCHITECT/ARCHITECTURAL	LP	LOW PRESSURE
AUTO	AUTOMATIC	MA	MIXED AIR
AUX	AUXILLARY DRAIN	MAN	MANUAL
BFF	BELOW FINISHED FLOOR		
BFV	BUTTERFLY VALVE	MAX	MAXIMUM
BSMT	BASEMENT	MCW	MAKE-UP COLD WATER
BTWN	BETWEEN	MD	MOTORIZED DAMPER
CAP	CAPACITY	MFR	MANUFACTURER
CFCV	CONSTANT FLOW CNTRL. VL.	MIN	MINIMUM
CFM	CUBIC FEET PER MINUTE	MISC	MISCELLANEOUS
CI	CAST IRON	MRA	MOST HYDRAULICALY DEMANDING AREA
CIS	COMMON INTELLIGIBILITY SYS.		
CEG	CEILING	NFPA	NOT IN CONTRACT
COL	COLUMN		NATIONAL FIRE PROTECTION ASSOCIATION
COMB	COMBINATION		
CONC	CONCRETE	NP	NOT POTABLE
CONT	CONTINUE/CONTINUATION	NTS	NOT TO SCALE
COORD	COORDINATE	O	OXYGEN
COR	CONTRACTING OFFICER'S REP.	OPNG	OPENING
CTR	CENTER	PD	PRESSURE DROP
CUFT	CUBIC FEET	PIV	POST INDICATOR VALVE
DI°	DEGREE	PR	PAIR
DCA	DETECTOR CHECK ASSY.	PREL	PRELIMINARY
DDCA	DOUBLE DETECTOR CK. ASSY.	PS	PRESSURE
DIA	DIAMETER	PRIM	PRIMARY
DI	DUCTILE IRON	PRV	PRESS. REDUCING VALVE
DISCH	DISCHARGE	PSI	LBS. PER SQ. IN.
DMPR	DAMPER	PSIG	LBS. PER SQ. IN. GAUGE
DN	DOWN	PW	POTABLE WATER
DWG	DRAWING	REC	RECESSED
EA	EACH	RED	REDUCER
ECS	EMERGENCY COMM. SYSTEM	REQD	REQUIRED
EAH	EXHAUST HOOD	SF	SQUARE FOOT
EX	EXISTING	SD	SMOKE DAMPER
EXP	EXPANSION	SIM	SIMILAR
EXPJT	EXPANSION JOINT	SLV	SLEEVE
ESP	EXTERNAL STATIC PRESSURE	SP	STATIC PRESSURE
F°	DEGREES FAHRENHEIT	SPS	STATIC PRESSURE STATION
FD	FIRE DAMPER	SQ	SQUARE
FDV	FIRE DEPARTMENT VALVE	SS	STAINLESS STEEL
FHR	FIRE HOSE STATION	STD	STANDARD
FHV	FIRE HOSE VALVE	T	THERMOSTAT
FPI	FINS PER INCH	SYS	SYSTEM
FLEX	FLEXIBLE	TCP	TEMP. CONTROL PANEL
FLG	FLANGE	TD	TEMPERATURE DROP
FT	FOOT/FEET	TEMP	TEMPERATURE
FTG	FOOTING	TSP	TOTAL STATIC PRESSURE
FUT	FUTURE	TYP	TYPICAL
GAL	GALLON	U/G	UNDER GROUND
GALV	GALVANIZED	U/S	UNDER SLAB
GEN	GENERATOR	UNO	UNLESS NOTED OTHERWISE
GENL	GENERAL	VL	VALVE
		VOL	VOLUME

EQUIPMENT ABBREVIATIONS

AFMS	AIR FLOW MEASURING STATION	FDC	FIRE DEPARTMENT CONTROL
CF	CABINET FAN	FDCP	F.A. ACCESS PANEL
CF	CHEMICAL FEEDER	FMCP	F.A. MASS NOTIFICATION PNL.
DBP	DOMESTIC WATER BOOST PUMP	FAA	F.A. ANNUNCIATOR PNL.
DCA	DETECTOR CHECK ASSY.	LOC	LOCAL OPERATOR CONSOLE
DDCA	DOUBLE DETECTOR CHECK ASSY.	NRSV	NON-RISING STEM VALVE
FHR	FIRE HOSE STATION	ITC	INSPECTOR'S TEST
F.A.	FIRE ALARM	PNL	PANEL
FPU	FIRE PUMP		

FIRE PROTECTION SHEET SET NOTE

* NOTE *

ALL GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THE CONTAINED REFERENCE DRAWINGS.

GENERAL SYMBOLS

- REVISION NUMBER SHOWN ON PLANS
- POINT WHERE NEW CONNECTS TO EXISTING
- DEMOLISH TO POINT INDICATED
- NUMBER OF DETAIL ON SHEET / NUMBER OF SHEET WHERE DETAIL APPEARS (1 / FX001)
- KEYED NOTES (1)
- NON-RETARDABLE FLOW SWITCH (W)
- TAMPER SWITCH (TS)
- HYDRAULIC REFERENCE POINT:
  - REF POINT AT PIPE (XXXX)
  - REF. POINT AT TOP OF VERTICAL PIPE (XXXX)
  - REF. POINT AT BOTTOM OF VERTICAL PIPE (XXXX)
- PIPE CONTINUATION
- SPACE TAG: OFFICE 101 — SPACE NAME / SPACE NUMBER
- ITEM TO BE DEMOLISHED
- AREA NOT IN CONTRACT

FIRE PROTECTION PIPING LEGEND

- 6" — PIPE SIZE TAG (DIAMETER Ø")
- 6" FP-D — PIPE SIZE AND SYSTEM TAG
- FP-D — FIRE PROTECTION DRY
- FP-PA — FIRE PROTECTION PRE-ACTION
- FP-W — FIRE PROTECTION WET

SPRINKLERS

K-VALUE SYMBOLS: 5.6, 8.0, 11.2, 14.0, 25.2

SPRINKLER ORIENTATION:
- CONCEALED
- UPRIGHT
- PENDENT
- RECESSED
- HORIZONTAL SIDEWALL
- VERTICAL SIDEWALL

METALLIC PIPE SYMBOLS

- PIPE TEE
- PIPE DROP
- PIPE ELBOW
- PIPE CAP
- PIPE RISE

PIPE ACCESSORIES

- BALL VALVE
- BUTTERFLY VALVE
- GATE VALVE
- GLOBE VALVE
- PRESSURE REDUCING VALVE
- SWING CHECK VALVE
- UNION

SPRINKLER TAGS

155 °F, EC D
- SPRINKLER TEMP RATING
- SPRINKLER CAGE (X)
- SPRINKLER TYPE: "D" = DRY TYPE, "O" = OPEN TYPE
- EXTENDED COVERAGE

PIPE ACCESSORY TAGS

#" DCDA
- ACCESSORY SIZE & ID
- TYPE MARK
- ACCESSORY SIZE (INLET - OUTLET)

FIRE DEPARTMENT CONNECTIONS

- 2-WAY PROJECTING
- 2-WAY BODY
- 2-WAY FLUSH PLATE
- FIRE HYDRANT

FIRE PROTECTION PHASING

- #" DCDA — NEW CONSTRUCTION FIRE EQUIPMENT (TYPICAL TAG FOR ALL NEW CONSTRUCTION)
- (E)#" DCDA — EXISTING FIRE EQUIPMENT (TYPICAL FOR ALL EXISTING TAGS)
- (D)#" DCDA — FIRE EQUIPMENT FOR DEMOLITION (TYPICAL FOR ALL DEMOLITION TAGS)

FIRE PROTECTION HAZARD LEGEND

- LIGHT HAZARD
- ORDINARY HAZARD 1
- ORDINARY HAZARD 2

GENERAL NOTES

1. THE CONTRACTOR SHALL PROVIDE AND INSTALL AN AUTOMATIC FIRE SPRINKLER SYSTEM TO FULLY PROTECT THIS FACILITY. THE FIRE SPRINKLER SYSTEM SHOWN THESE DRAWINGS IS BASED ON PRESCRIPTIVE DESIGN AND CONCEPTUAL ONLY.
2. THE SPRINKLER CONTRACTOR SHALL SUBMIT COMPLETE FIRE SPRINKLER SYSTEM SHOP DRAWINGS BASED ON NFPA 13 AND SPECIFICATION REQUIREMENTS AND SUBMIT FOR APPROVAL PRIOR TO INSTALLATION.
3. THE EQUIPMENT SHOWN ARE SUGGESTED LOCATIONS HOWEVER FINAL LAYOUT SHALL BE IN ACCORDANCE WITH APPLICABLE CODES, MANUFACTURER'S RECOMMENDATIONS, AND EQUIPMENT LISTINGS. CONTRACTOR SHALL COORDINATE BRANCH LINE AND SPRINKLER HEAD LOCATIONS WITH CEILING PANELS, LIGHTING FIXTURES, HVAC DUCTS AND AIR DEVICES, PLUMBING AND OTHER TRADES NOT SPECIFICALLY NAMED.
4. ALL EQUIPMENT SHALL BE UL LISTED AND FM APPROVED IN ACCORDANCE WITH NFPA 13 AND PROJECT SPECIFICATIONS.
5. CONTRACTOR SHALL SUBMIT SETS OF FIRE SUPPRESSION PLANS, DATA CUT-SHEETS, AND HYDRAULIC CALCULATIONS TO A/E AND AHJ FOR REVIEW AND APPROVAL PRIOR TO BEGINNING ANY WORK ON THE FIRE SUPPRESSION SYSTEM.
6. THE CONTRACTOR SHALL CONDUCT WATER SUPPLY HYDRANT TEST FOR THIS PROJECT BASED ON NFPA 291 REQUIREMENTS AND UTILIZE THIS DATA TO DESIGN THE SPRINKLER SYSTEM. THE HYDRANT LOCATIONS, FLOW TESTS, AND DATE SHALL BE INDICATED ON THE SHOP DRAWINGS. AUTOMATIC SPRINKLER PROTECTION SYSTEM IS REQUIRED TO PROTECT THIS ENTIRE FACILITY. A MINIMUM 10% SAFETY FACTOR IS REQUIRED BETWEEN THE AVAILABLE WATER SUPPLY AND THE SPRINKLER SYSTEM DEMAND.
7. PROVIDE EARTHQUAKE PROTECTION (SWAY BRACING), END OF BRANCH LINE AND SEISMIC BRACING CALCULATION IN ACCORDANCE WITH NFPA 13 REQUIREMENTS . MINIMUM Cp TO BE DETERMINED BASED ON STRUCTURAL DESIGN DOCUMENTS OR USGS DATA FOR SITE SPECIFIC SHORT PERIOD SPECTRAL RESPONSE (Ss).
8. FIRE PROTECTION DEVICES AND PIPING ON PLANS ARE NOT FOR CONSTRUCTION, THEY ARE FOR COST ESTIMATING ONLY.
9. THE CONTRACTOR SHALL CONFORM TO THE SYMBOLS INDICATED IN NFPA 170 TO DEVELOP THE AS-BUILT DRAWINGS FOR THIS PROJECT.
10. ALL AUTOMATIC SPRINKLER DRAIN VALVES FOR FIRE DEPARTMENT CONNECTIONS SHALL BE INSTALLED IN THE HORIZONTAL POSITION.
11. FLEXIBLE COUPLINGS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13.
12. ALL DRAIN PIPING SHALL BE COORDINATED WITH AND APPROVED BY A/E FOR ARRANGEMENT, LOCATION (DOWNSPOUT, DOCK PARKING LOT, ETC.) AND APPROPRIATENESS OF THE MEANS OF DISCHARGE (STORM SEWER, SANITARY SEWER, BIOSWALE, ETC.) THAT WILL HANDLE THE FULL FLOW OF THE DRAIN WITHOUT SPECIAL TOOLS OR EQUIPMENT AND WITH DAMAGE TO LANDSCAPING OR PAVEMENT.
13. INSPECTOR'S TEST CONNECTION SHALL BE NOT LARGER THAN 1/2" ORIFICE AND BE LOCATED ON THE REMOTE BRANCH LINE.

SYSTEM NOTES

1. ALL SYSTEM PIPING SHALL BE HYDROSTATICALLY TESTED @ 200 PSI FOR TWO HOURS OR AT 50 PSI ABOVE THE OPERATIONAL STATIC PRESSURE OF THE SYSTEM, WHICHEVER IS GREATER.
2. EACH VALVE SHALL HAVE A PERMANENTLY AFFIXED SIGN INDICATING ITS FUNCTION. ALL VALVE HANDLES MUST BE ACCESSIBLE.
3. A STOCK OF SPARE SPRINKLERS, NOT LESS THAN 6, CONSISTING OF A REPRESENTATIVE MIX OF EACH STYLE AND TEMPERATURE RATING SHALL BE PROVIDED WITH A WRENCH AND BE LOCATED NEAR THE RISER. SPARE SPRINKLER CABINET WILL BE MOUNTED WHERE THE SPRINKLERS WILL NOT BE SUBJECTED TO TEMPERATURES ABOVE 100 DEG. F.
4. SPRINKLERS SHALL BE A MINIMUM OF 1/2" NPT 1/2" ORIFICE K-5.6 QUICK RESPONSE. PENDENT SPRINKLERS SHALL BE INSTALLED IN THE CENTER POINTS OF THE CEILING TILES. CONCEALED SPRINKLERS WITH WHITE COVER PLATES SHALL BE INSTALLED THROUGHOUT FINISHED CEILINGS. OTHER SPRINKLERS SHALL BE GLASS BULB, BRONZE FINISHED WITH AN ORIFICE AND THREAD SIZE APPROPRIATE FOR THE HAZARD AND DENSITY.
5. BRANCH LINE CONNECTIONS TO THE MAIN SHALL BE PRE-DRILLED, SHOP WELDED OUTLETS OR OTHER CONNECTIONS AS APPROVED, MECHANICAL TEES SHALL NOT BE USED ON NEW SYSTEMS. MAIN PIPING FOR THE SYSTEMS SHALL BE SCHEDULE 40. BRANCH LINE PIPING FOR THIS PROJECT SHALL BE SCHEDULE 40 PIPE WITH SCREWED AND/OR WELDED FITTINGS. IF A HISTORY OF CORROSION IS KNOWN TO EXIST, SCHEDULE 10 PIPING MAY BE USED.
6. THREADABLE THINWALL, ENGINEERED PIPE SIZING, IE DYNATHREAD/DYNAFLOW, AND CPVC MAY NOT BE USED.
7. ALL MATERIALS USED IN THE INSTALLATION OF THIS SYSTEM(S) SHALL BE NEW AND OF CURRENT ISSUE. ALL MATERIALS SHALL BE APPROVED BY UL AND BE IN CONFORMANCE WITH SPECIFICATIONS, CURRENT EDITION OF NFPA-13 AS WELL AS THE AUTHORITY HAVING JURISDICTION.
8. SYSTEM PIPING WILL BE SUPPORTED AND BRACED WITH HANGERS AND LISTED EARTHQUAKE BRACE ASSEMBLIES IN ACCORDANCE PER NFPA-13.
9. PAINTING OF THE SYSTEM PIPING AND COMPONENTS SHALL BE DONE PER A/E SPECIFICATIONS.
10. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN THE INTEGRITY OF THE SPRINKLER SYSTEM DURING CONSTRUCTION.
11. ELEVATIONS AND DIMENSIONS SHOWN ON THESE DRAWINGS ARE NOMINAL.
12. THE VERTICAL DISTANCE BETWEEN THE SPRINKLER DEFLECTOR AND THE CEILINGS AND/OR ROOF DECK SHALL BE A 1" MIN AND 12" MAX PER NFPA 13.
13. THE SMALL-ROOM RULE MAY BE USED IN ROOMS UNDER 800 SQUARE FEET. THIS RULE ALLOWS THAT SPRINKLERS TO BE SPACED UP TO 9' FROM ONE WALL, UP TO 225sq ft PER SPRINKLER, PROVIDED THERE IS AN 8" LINTEL AT THE DOORS/OPENINGS.
14. WATER VELOCITIES SHALL NOT EXCEED 20-FPS.
15. SPRINKLER AREAS WILL BE LIMITED IN ACCORDANCE WITH NFPA 13.
16. ALL PIPE UP TO 4" SHALL HAVE AN ANTIBACTERIAL PROTECTIVE COATING EQUIVALENT TO ALLIED TUBE AND CONDUIT M-COTE, AND BE SHOWN TO NOT BE INCOMPATIBLE WITH CPVS. CONTRACTOR TO VERIFY.
17. AUTOMATIC SPRINKLER SYSTEMS SHALL BE SUPERVISED AND INTERFACE WITH NEW FIRE ALARM SYSTEM.
18. THE CONTRACTOR SHALL PROVIDE THE INSPECTOR WITH COPY OF: THE "CONTRACTOR'S MATERIAL & TEST CERTIFICATE FOR ABOVEGROUND PIPING" IN ACCORDANCE WITH NFPA 13; AND THE "RECORD OF COMPLETION" FOR FIRE ALARM SYSTEMS IN ACCORDANCE WITH NFPA 72. THESE DOCUMENTS SHALL BE PRESENTED UPON SUCCESSFUL COMPLETION ON THE SYSTEM TEST AND PRIOR TO ACCEPTANCE OF THE SYSTEM.
19. ONE SET OF STAMPED, APPROVED DRAWINGS SHALL BE ON SITE AT ALL TIMES AND MADE AVAILABLE TO INSPECTORS ON DEMAND.
20. FIRE DEPARTMENT VEHICLE ACCESS ROADWAYS SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION. REQUIRED WATER FLOW SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION AND PRIOR TO ANY COMBUSTIBLES BEING BROUGHT ON SITE.
21. FIRE PROTECTION SYSTEMS SHALL BE INSTALLED BY A CONTRACTOR LICENSED TO PERFORM SUCH WORK IN THE PROJECT JURISDICTION.

FLOW DATA

FLOW TEST CONDUCTED BY CAW

DATE OF TESTING: 11-15-2024

STATIC PRESSURE: 77.00 psi **RESIDUAL PRESSURE:** 56.00 psi **FLOW:** 1,500 GPM

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JAMES T. HARVEY

ADMINISTRATION BUILDING RENOVATIONS

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Job No. CENTRA24.00

Date March 28, 2025

Title

FIRE PROTECTION LEGEND AND NOTES

Sheet No.

FX001

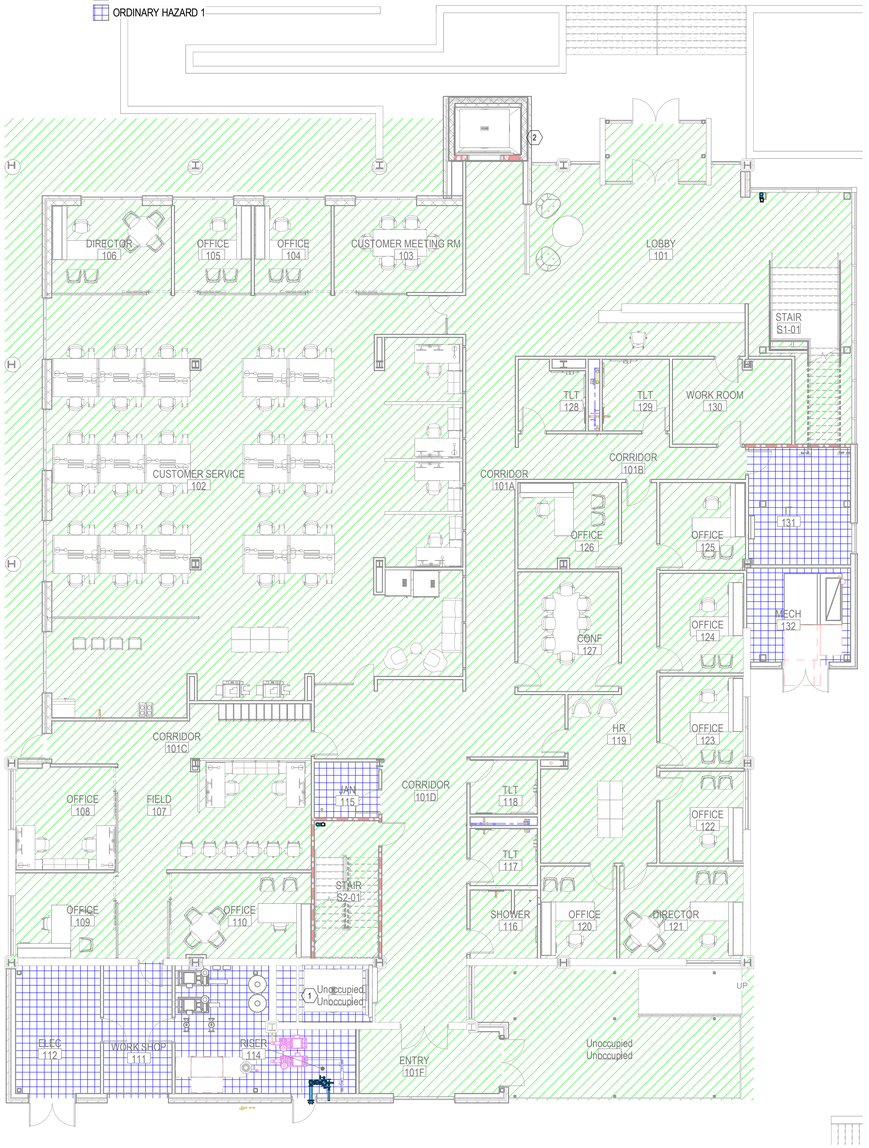
Project Name
Autodesk Docs://Central Arkansas Water/JTH Building Renovations/20241196-FirePro.rvt
3/27/2025 3:57:05 PM

1 EXISTING HYDRAULIC ELEVATOR. SIDEWALL SPRINKLER HEADS REQUIRED NOT MORE THAN 2 FEET ABOVE THE FLOOR OF THE ELEVATOR PIT. 2019 NFPA 13 9.3.6.2

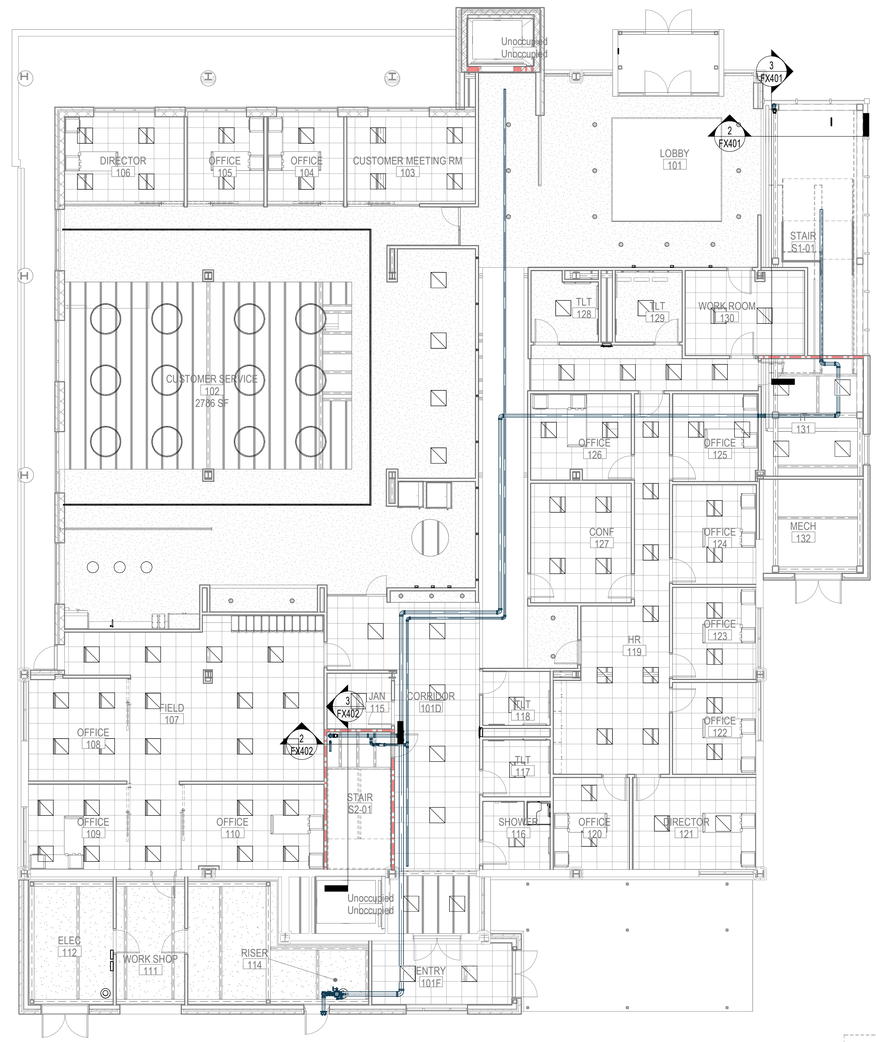
2 NEW ELECTRIC TRACTION ELEVATOR. AUTOMATIC FIRE SPRINKLERS NOT REQUIRED AT THE BOTTOM OF ELEVATOR SHAFTS THAT DO NOT CONTAIN COMBUSTIBLE HYDRAULIC FLUIDS. 2019 NFPA 13 9.3.6.2.

Hazard Zones

- *Hazard*
- LIGHT HAZARD
- ORDINARY HAZARD 1



1 FIRE SUPPRESSION FIRST FLOOR HAZARD PLAN
1/8" = 1'-0"



2 FIRE SUPPRESSION FIRST FLOOR PLAN
1/8" = 1'-0"

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Job No. CENTRA24.00

Date March 28, 2025

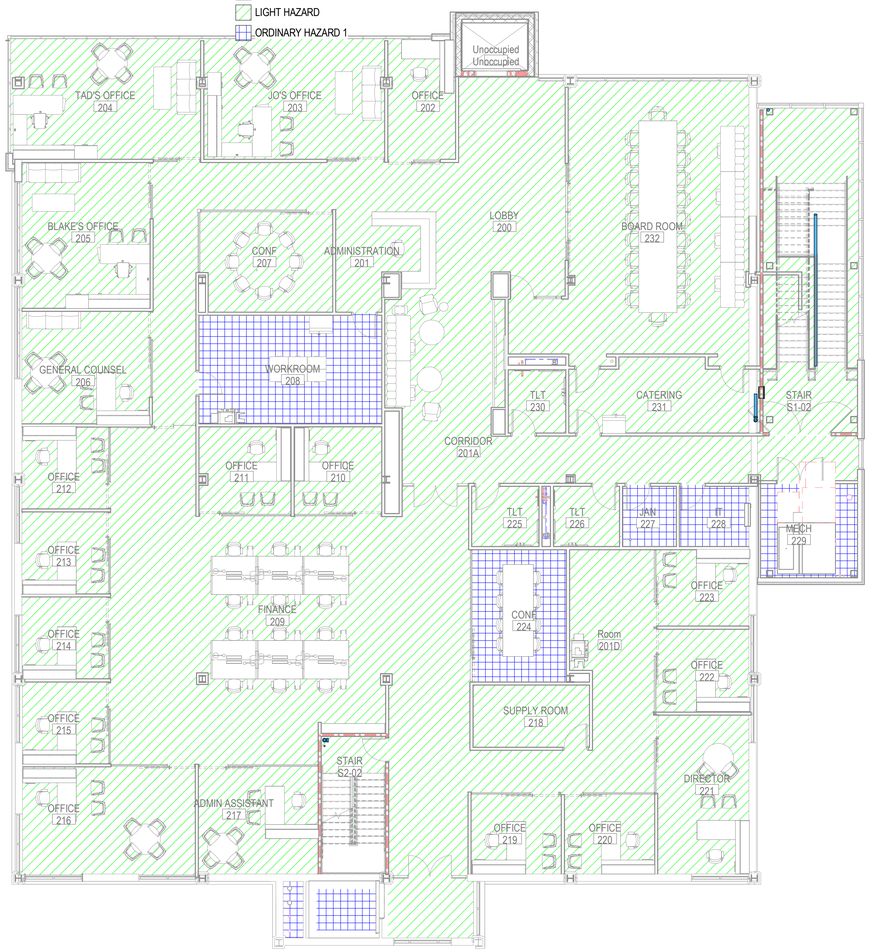
Title
FIRE PROTECTION FIRST FLOOR PLAN

Sheet No.
FX101

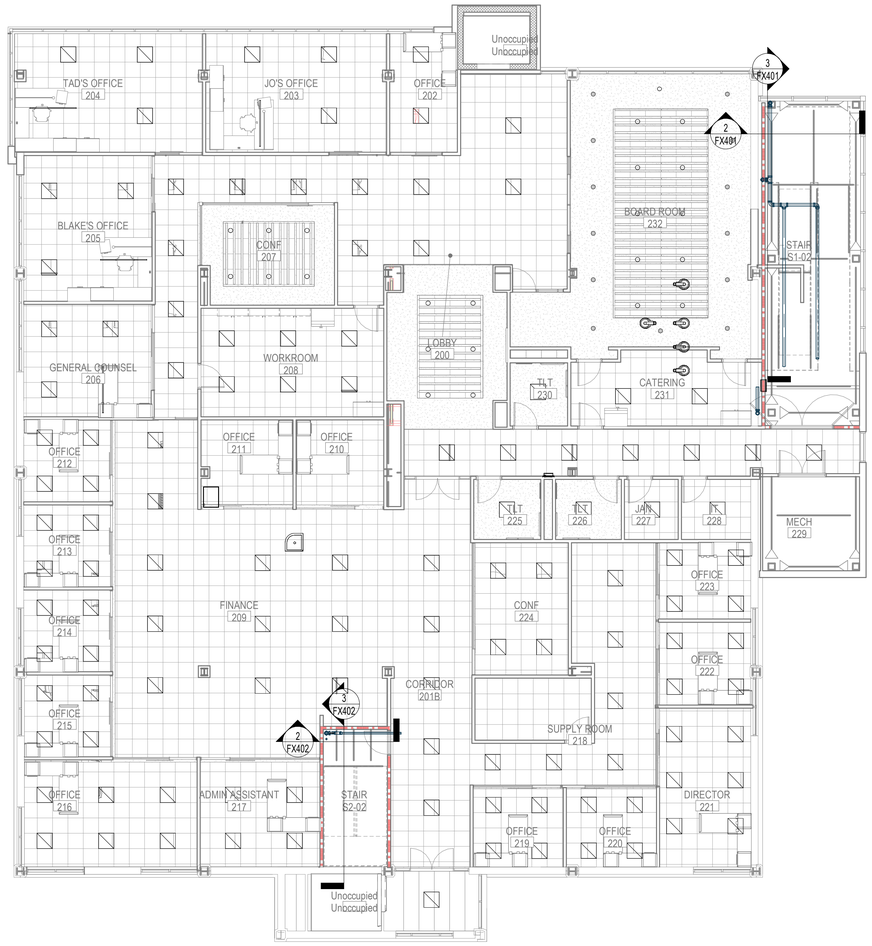
Project Norm
Autodesk Docs://Central Arkansas Water -JTH Building Renovations/2024-196-FirePro.rvt
3/27/2025 3:57:15 PM

Hazard Zones

Hazard
LIGHT HAZARD
ORDINARY HAZARD 1



1 FIRE SUPPRESSION SECOND FLOOR HAZARD PLAN
1/8" = 1'-0"



2 FIRE SUPPRESSION SECOND FLOOR PLAN
1/8" = 1'-0"

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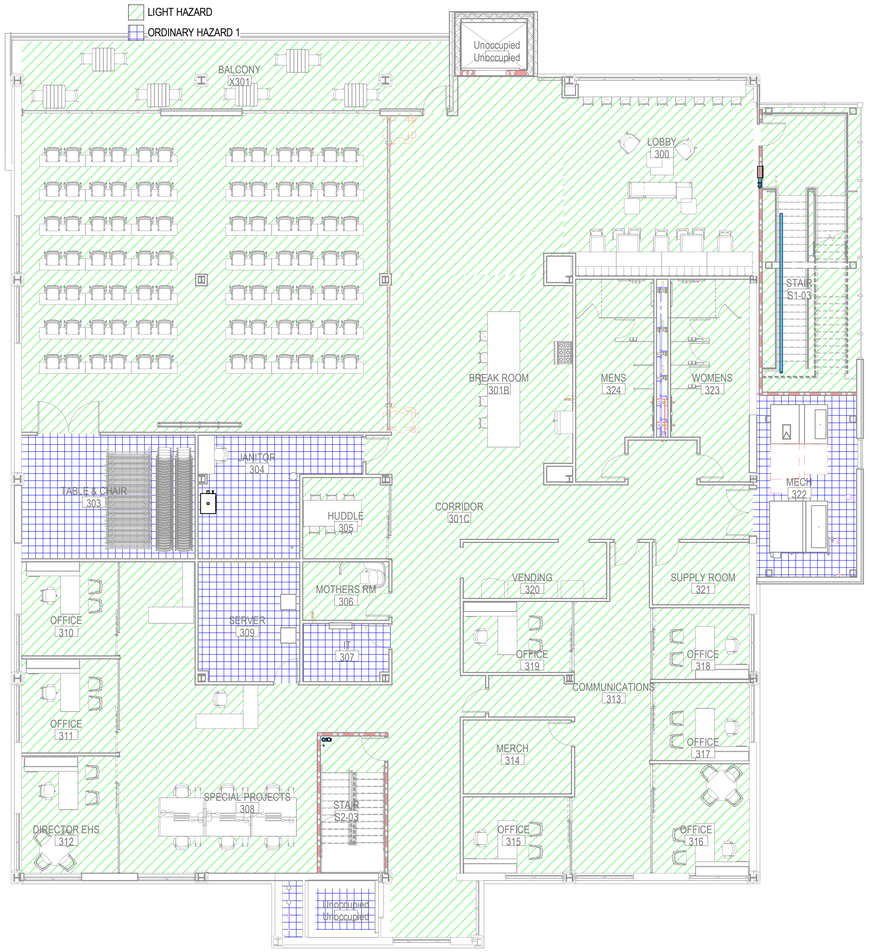
Title
FIRE PROTECTION SECOND FLOOR PLAN

Sheet No.
FX102

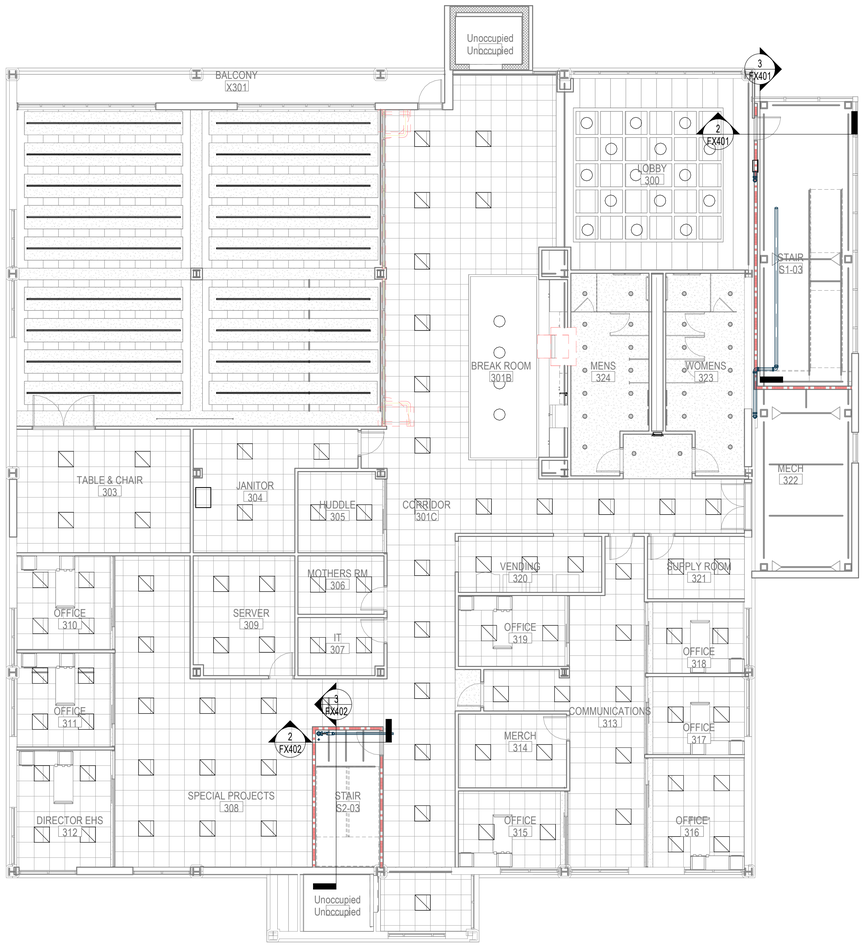
Project Name
Autodesk Docs://Central Arkansas Water JTH Building Renovations/20241196-FirePro.rvt
3/27/2025 3:57:25 PM

Hazard Zones

Hazard
LIGHT HAZARD
ORDINARY HAZARD 1



1 FIRE SUPPRESSION THIRD FLOOR HAZARD PLAN
1/8" = 1'-0"
0 4 8 16



2 FIRE SUPPRESSION THIRD FLOOR PLAN
1/8" = 1'-0"
0 4 8 16

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Title
FIRE PROTECTION THIRD FLOOR PLAN

Sheet No.
FX103

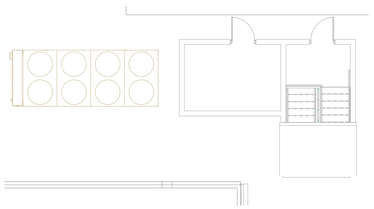
Project Name
Autodesk Docs://Central Arkansas Water JTH Building Renovations/2024-196-FirePro.rvt
3/27/2025 3:57:41 PM

1 NEW ELECTRIC TRACTION ELEVATOR. AUTOMATIC FIRE SPRINKLERS NOT REQUIRED AT THE TOP OF ELEVATOR SHAFTS THAT DO NOT CONTAIN COMBUSTIBLE HYDRAULIC FLUIDS. 2019 NFPA 13 9.3.6.2.

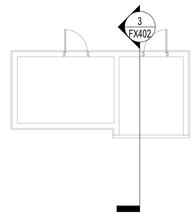
2 HYDRAULIC ELEVATOR. AUTOMATIC FIRE SPRINKLERS REQUIRED AT THE TOP OF ELEVATOR SHAFTS THAT CONTAIN COMBUSTIBLE HYDRAULIC FLUIDS. 2019 NFPA 13 9.3.6.3(5).

1 FIRE SUPPRESSION FOURTH FLOOR HAZARD PLAN
1/8" = 1'-0"

2 FIRE SUPPRESSION FOURTH FLOOR PLAN
1/8" = 1'-0"



3 FIRE SUPPRESSION PENTHOUSE HAZARD PLAN
1/8" = 1'-0"



4 FIRE SUPPRESSION PENTHOUSE PLAN
1/8" = 1'-0"

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Title FIRE PROTECTION FOURTH FLOOR PLAN

Sheet No. **FX104**

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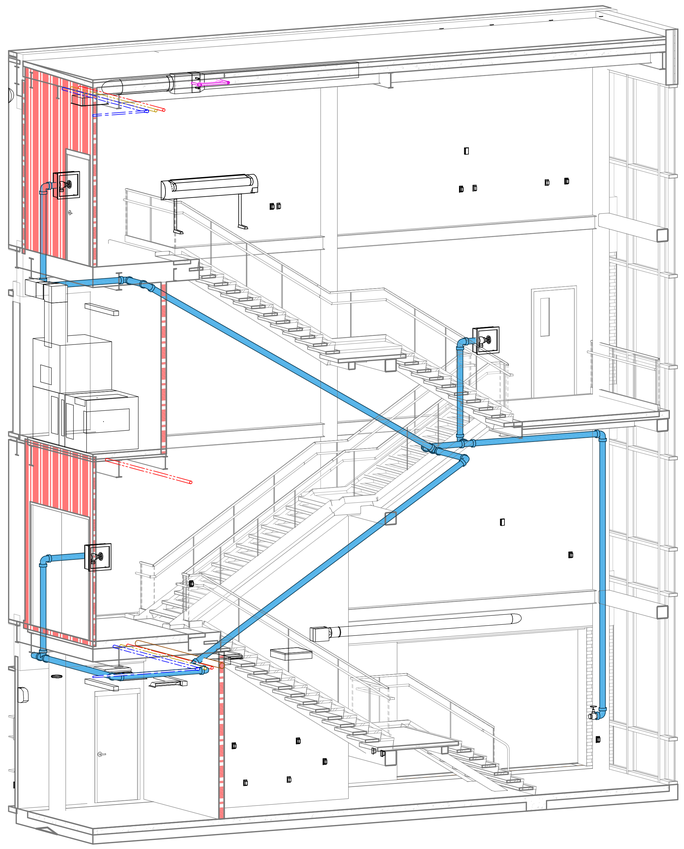

1 STAIR 394 3D
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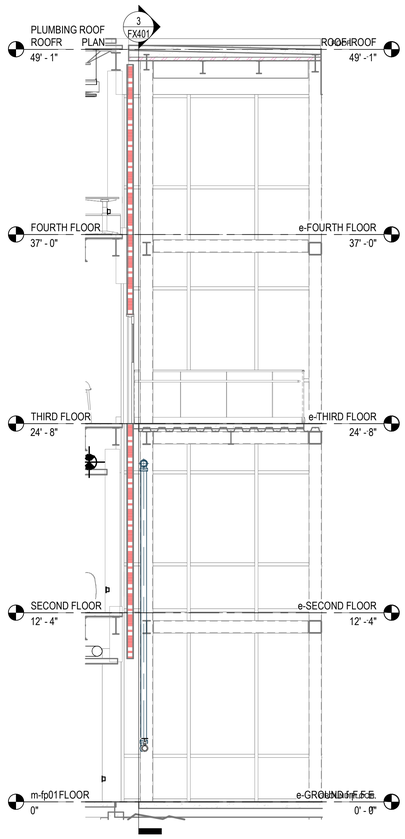
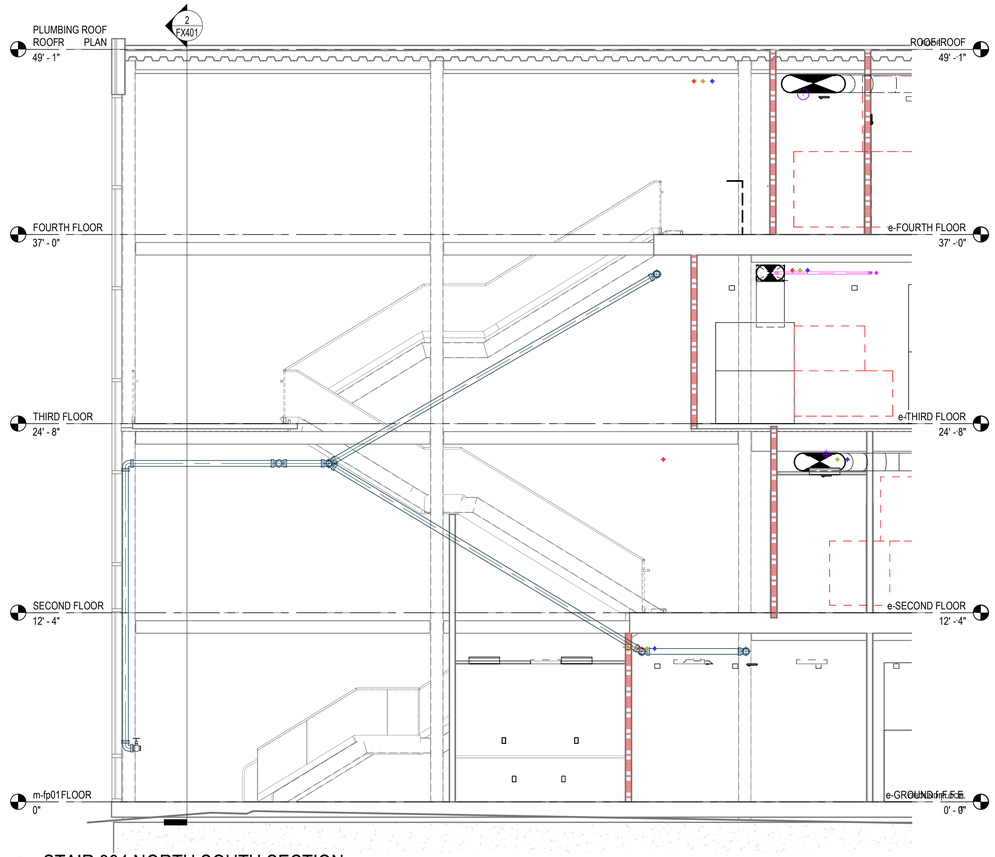


2 STAIR 394 EAST WEST SECTION
1/4" = 1'-0"



3 STAIR 394 NORTH SOUTH SECTION
1/4" = 1'-0"

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Date March 28, 2025

Title FIRE SUP. SECTIONS - STAIR 394

Sheet No. **FX401**

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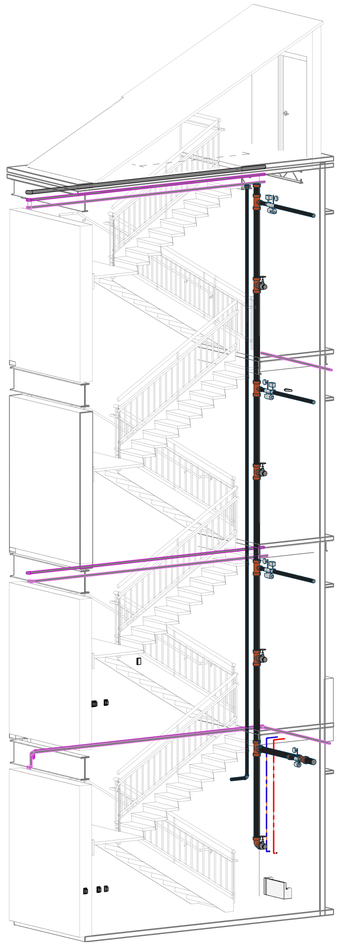

1 STAIR 402 3D VIEW
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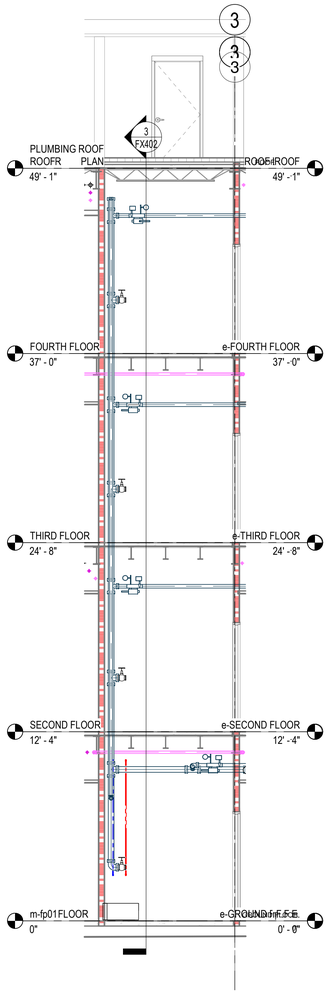
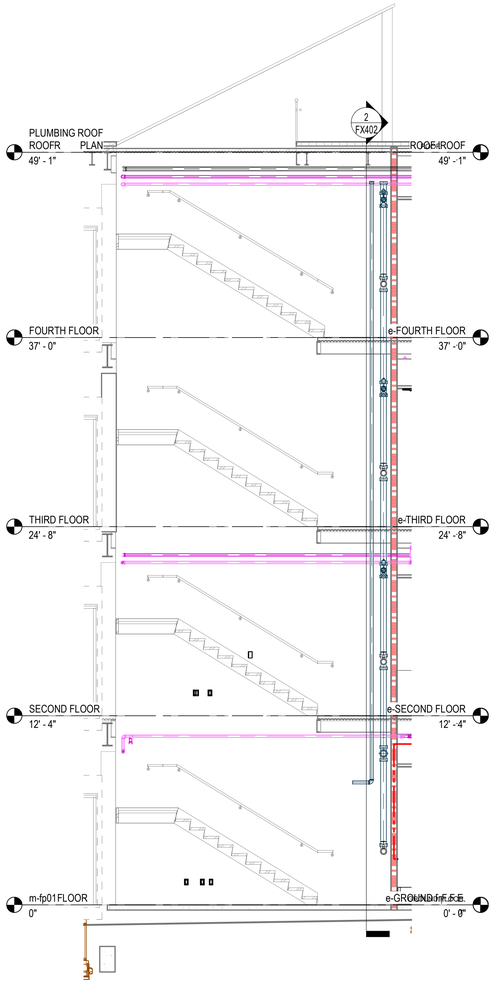


2 STAIR 402 EAST WEST SECTION
1/4" = 1'-0"



3 STAIR 402 NORTH SOUTH SECTION
1/4" = 1'-0"

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Date March 28, 2025

Title FIRE SUP. SECTIONS - STAIR 402

Sheet No.

FX402

Project Name
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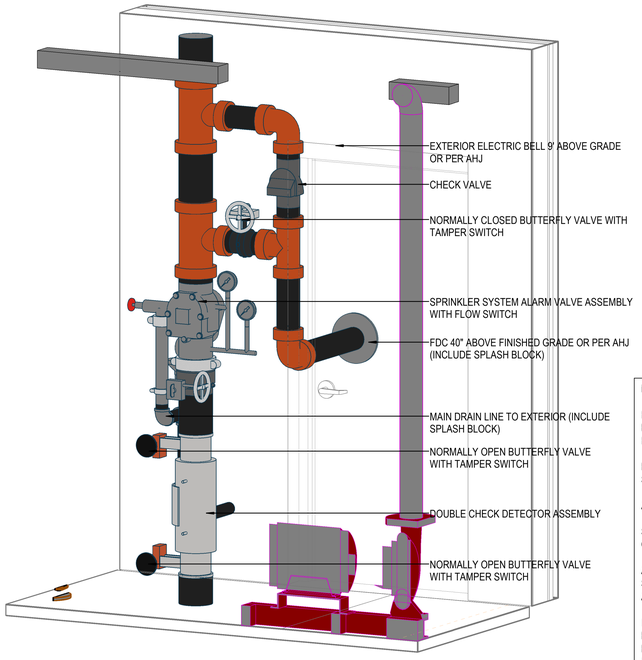
3/27/2025 3:57:55 PM



NOTES:

FIRE SPRINKLER SYSTEM TO BE MONITORED BY A U.L. OR F.M. LISTED CENTRAL STATION FLOW, TAMPER AND TROUBLE.

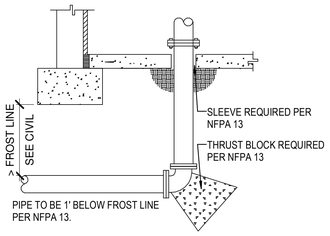
PROVIDE A 3'-0" CLEARANCE AROUND FIRE SPRINKLER RISER FOR MINIMUM ACCESS.

ALL VALVES SHALL BE A MAX. OF 7'-0" AFF.

SIGNS FOR ALL VALVES AND HYDRAULIC CALC PLATE PER NFPA 13 TYP.

AS-BUILT PLAN CABINET, SPARE SPRINKLERS, WRENCH, NFPA 25 REQUIRED AT RISER. SEE SPECIFICATIONS.

INSPECTOR TEST TO BE LOCATED AT REMOTE END OF SYSTEM WITH LANDSCAPE PROTECTION. PROVIDE SIGN AT RISER INDICATING LOCATION OF TEST VALVE.



THIS DETAIL IS NOT INTENDED TO REPRESENT ACTUAL WALL OR STRUCTURAL CONDITIONS

1 RISER DETAIL
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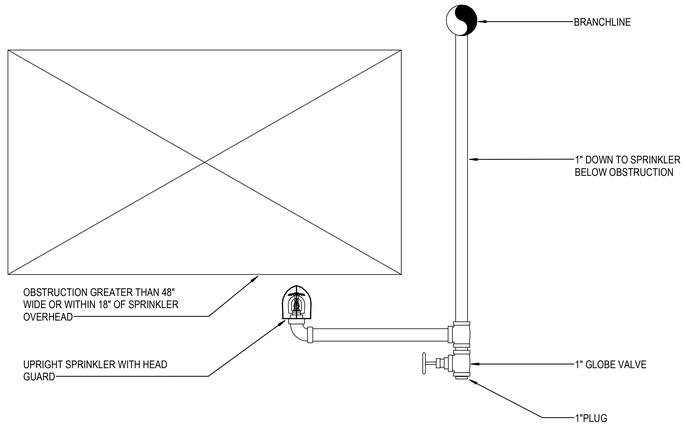
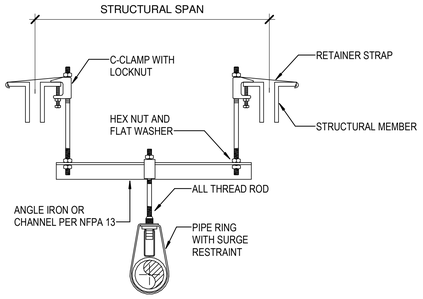


2 SPRINKLER UNDER OBSTRUCTION
NOT TO SCALE



3 TRAPEZE HANGER
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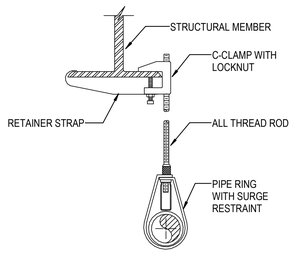
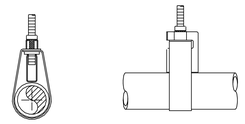
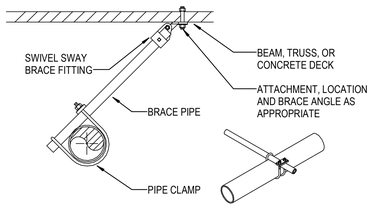


4 BEAM CLAMP HANGER
NOT TO SCALE

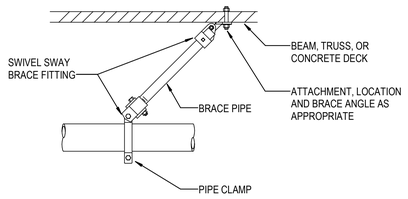


NOTE: SURGE RESTRAINERS ARE TO BE USED ONLY WITH BAND HANGERS TO RESTRAIN THE UPWARD MOVEMENT OF PIPE AS IT OCCURS DURING SPRINKLER HEAD ACTIVATION OR SEISMIC ACTIVITY. INSTALL AT ENDS OF LINES AND AT 30' INTERVALS ON BRANCH LINES.

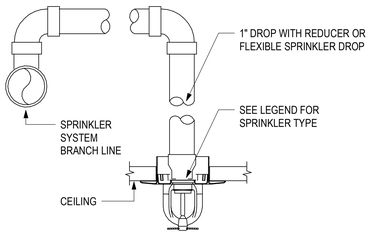
5 SURGE RESTRAINT DETAIL
NOT TO SCALE



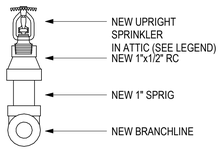
6 LATERAL SWAY BRACE
NOT TO SCALE



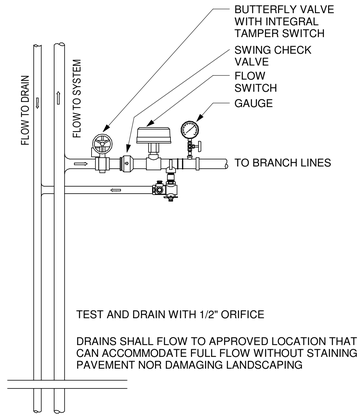
7 LONGITUDINAL SWAY BRACE DETAIL
NOT TO SCALE



8 RETURN BEND
NOT TO SCALE



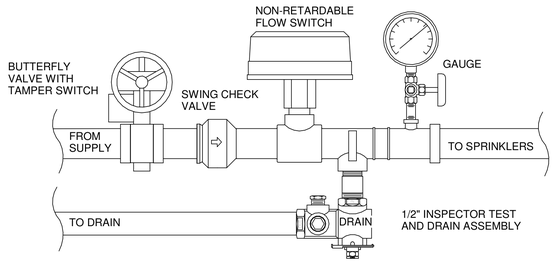
9 UPRIGHT SPRINKLER DETAIL
NOT TO SCALE



TEST AND DRAIN WITH 1/2" ORIFICE

DRAINS SHALL FLOW TO APPROVED LOCATION THAT CAN ACCOMMODATE FULL FLOW WITHOUT STAINING PAVEMENT NOR DAMAGING LANDSCAPING

10 TYPICAL FLOOR CONTROL VALVE
NOT TO SCALE



11 TYPICAL ELEVATOR CONTROL VALVE (TOP OF SHAFT)
NOT TO SCALE

CENTRAL ARKANSAS WATER

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NOT FOR CONSTRUCTION

DESIGN DEVELOPMENT

No.	Issue	Date

Job No.
CENTRA24.00
Date
March 28, 2025
Title

FIRE SUP. DETAILS

Sheet No.
FX501

Project Name
Autodesk Docs://Central Arkansas Water JTH Building Renovations/2024-196-FirePro.rvt
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