

ELMIRA CIVIL WAR VISITOR CENTER
PHASE I
ELMIRA, NEW YORK



Table with 2 columns: ISSUED / REVISIONS, DATE. Contains contract notes regarding work differences, general contractor responsibilities, and final electrical connections.

DRAWING INDEX

Table listing drawing sections: COVER, SYMBOLS AND ABBREVIATIONS, CODE COMPLIANCE AND SPECIFICATIONS, STRUCTURAL, ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL.

PROJECT LOCATION MAPS

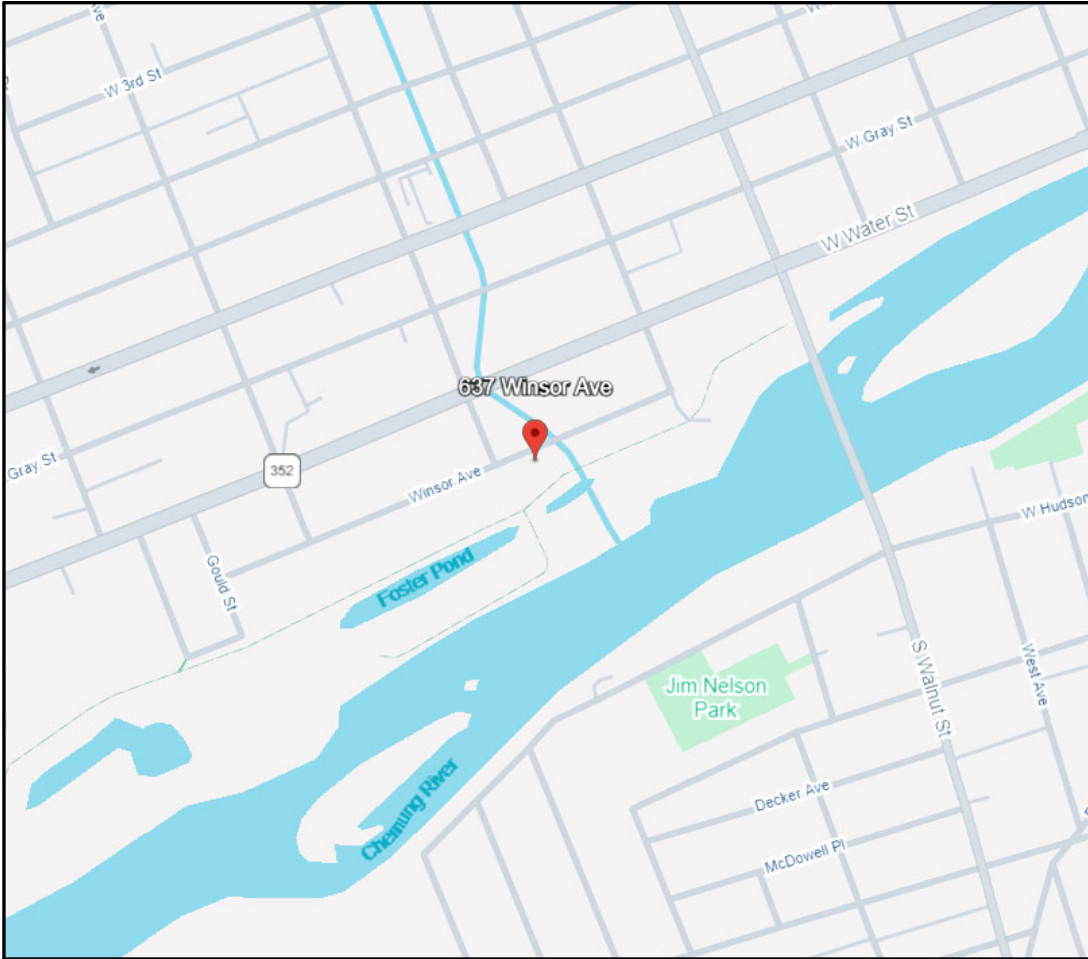
STATE/COUNTY

ELMIRA, CHEMUNG, NEW YORK



LOCATION MAP

637-639 WINSOR AVE, ELMIRA, NY 14901



BASE BID

- CONCRETE FOUNDATION AND SLAB
- FRONT & REAR SIDEWALK SLAB AND ENTRY COVERING
- ALL EXTERIOR WALLS AND ROOF
- INTERIOR WALLS @ BATHROOMS/ HALLWAY
- STAIRS TO LOFT SPACE
- LOFT ABOVE BATHROOMS AND HALLWAY
- UNDERSLAB PIPING WITH STUB UP TO ALL FIXTURES
- POWER TO EXTERIOR WALL OUTLETS
- INTERIOR LIGHTING IN MAIN SPACE
- EXTERIOR LIGHTING AT ENTRANCES

PROJECT ALTERNATIVES

- ADD ALTERNATE #1 - PROVIDE RESTROOMS, STAIRS, AND JANITOR CLOSET ON FIRST FLOOR WITH ELECTRICAL AND MECHANICAL LOFT SPACE ABOVE. INCLUDE ASSOCIATED ELECTRICAL, MECHANICAL, AND PLUMBING.
ADD ALTERNATE #2 - PROVIDE BUSINESS OFFICE AND EXECUTIVE OFFICE ON FIRST FLOOR AND EXTEND ELECTRICAL AND MECHANICAL LOFT SPACE ABOVE. INCLUDE ASSOCIATED ELECTRICAL AND MECHANICAL.
FUTURE AREA (NOT IN CURRENT SCOPE/ PHASE TWO) - PROVIDE RECEPTION, GIFT SHOP, GALLERY, ARCHIVE, WORKSPACE, AND CLASSROOM. INCLUDE ASSOCIATED ELECTRICAL AND MECHANICAL.

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Project information block including: AJH DESIGN logo, project name (ELMIRA CIVIL WAR VISITOR CENTER), address (637-639 WINSOR AVE, ELMIRA, NY 14901), drawing scale (AS NOTED), issue date (10.28.2025), project no. (25-086), drawing no. (CS), and owner/client (FRIENDS OF ELMIRA CIVIL WAR PRISON CAMP).

SITework	
SYMBOL	DESCRIPTION
	CONTROL POINT
	UTILITY POLE W ANCHOR
	SIGN
	EXG. WATER VALVE
	NEW WATER VALVE
	UTILITY POLE W/ LIGHT
	STREET LIGHT
	EXG. FIRE HYDRANT
	NEW FIRE HYDRANT
	CATCH BASIN / DRYWELL
	CURB BOX VALVE
	EXISTING DECIDUOUS TREE
	EXISTING CONIFEROUS TREE
	EXG. ELEVATION
	NEW ELEVATION
	EXISTING MANHOLE
	NEW MANHOLE
	EDGE OF STREAM OR SWALE
	SHRUBBERY, WOODS
	EXISTING CULVERT
	NEW CULVERTS WITH END SECTION
	TEST PIT
	TEST HOLE
	RIP RAP
	COORDINATE POINT LOCATION
	5/8" REBAR W/ SURVEY CAP SET
	*LINES SHOWN AS SCREENED (GRAY) DENOTE EXISTING
	NEW CONTOUR*
	EXISTING ELECTRIC*
	WATER LINE*
	SANITARY LINE*
	TELEPHONE LINE*
	STORM SEWER*
	OVERHEAD ELECTIC*
	UNDERGROUND ELECTRIC*
	ROAD CENTER LINE*
	GAS LINE
	ORIGINAL LOT LINE
	DEED LINE
	PROPERTY LINE
	EXISTING FENCE
	NEW FENCE
	GUARD RAIL
	EASEMENT LINE
	CONCRETE MONUMENT
	EXISTING IRON ROD
	EXISTING IRON PIPE
	UTILITY POLE

SYMBOL	DESCRIPTION
	VOLUME DAMPER
	NATURAL GAS PIPING
	BELOW SLAB SANITARY PIPING
	ABOVE SLAB SANITARY PIPING
	BELOW SLAB STORM (ROOF DRAINAGE) PIPING
	ABOVE SLAB STORM (ROOF DRAINAGE) PIPING
	SANITARY VENT PIPING
	CONDENSATE DRAIN PIPING
	EXISTING PIPING TO REMAIN
	EXISTING PIPING & EQUIP. TO BE REMOVED
	CHECK VALVE
	FLOOR PENETRATION
	ACID WASTE
	ACID VENT
	HOT WATER SUPPLY PIPING
	HOT WATER RETURN PIPING
	CONDENSATE DRAIN PIPING
	REFRIGERANT SUCTION PIPING
	REFRIGERANT LIQUID PIPING
	EXG. PIPING & EQUIPMENT TO REMAIN
	(OR) SHUT-OFF VALVE
	TOP PIPE CONNECT
	BOTTOM PIPE CONNECT
	BALANCING VALVE/ AUTO. FLOW CONTROL FITTING/ SPRINKLER UPRIGHT
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER PIPING
	DOMESTIC RECIRCULATING WATER PIPING
	POINT OF CONNECTION

SYMBOL	DESCRIPTION
	DUCT W/ MANUAL VOLUME DAMPER
	SUPPLY AIR DIFFUSER
	GRILLE OR REG.
	FIRE DAMPER
	THERMOSTAT
	THERMOSTAT W/ GUARD
	SENSOR
	MITERED ELBOW W/ TURNING VANES
	FIRST # 15 DUCT WIDTH SIZE
	POINT OF CONNECTION
	DUCT DOWN
	DUCT UP
	DUCT PENETRATION THRU FLOOR OR ROOF ABOVE SUPPLY
	DUCT PENETRATION THRU FLOOR OR ROOF ABOVE EXHAUST OR RETURN
	AUTOMATIC DAMPER
	DIFFUSER NUMBER CFM
	GRILLE NUMBER CFM
	REGISTER NUMBER CFM

SYMBOL	DESCRIPTION	MFC./NO. & REMARKS
	CEILING MOUNT SPEAKER	INTERIOR: BOSCH LBC308G/4 I EXTERIOR: POLY PLANER MA405G-6"
	WALL MOUNT SPEAKER	
	CEILING MOUNTED OCCUPANCY SENSOR	
	SINGLE POLE SWITCH	PASS # SEYMOUR C52OAC1
	3 WAY SWITCH	PASS # SEYMOUR C52OAC3
	4 WAY SWITCH	PASS # SEYMOUR C52OAC4
	OCCUPANCY SENSOR SWITCH	SENSOR SWITCH WSD-PDT
	LOW VOLTAGE SWITCH	DUAL TECHNOLOGY
	DUPLEX RECEPTACLE	PASS # SEYMOUR P55362 20A RATING
	GFI RECEPTACLE	PASS # SEYMOUR P52095 20A RATING, 120V
	WEATHERPROOF RECEPTACLE	PASS # SEYMOUR P52094 20A RATING, INSTALLED W/ WATER TIGHT HOUSING
	QUADPLEX	PASS # SEYMOUR P55262
	SPECIAL PURPOSE RECEPTACLE	PROVIDE 30A RECEPTACLE FOR DRYER
	FUSED DISCONNECT	CULTER-HAMMER/ SQUARED
	JUNCTION BOX	
	MOTOR	SEE ELECTRICAL EQUIPMENT SCHEDULE
	DATA/TELEPHONE NETWORK JACK	PROVIDE BOX # 3/4" CONDUIT TO 6" ABOVE FIN. CEILING/ CONCEALED SPACE
	DATA #=QUANTITY DATA DROPS	CATEGORY 6 DATA OUTLET
	WIRELESS ACCESS POINT	PROVIDE 3/4" SLEEVE AND BACK BOX IN WALL
	CARD/PROXIMITY READER	MOUNT AT 4'-6" AFF. PROVIDE CONDUIT & BACK BOX.
	DOOR CONTACT	REFER TO DOOR HARDWARE SPECIFICATIONS
	ELECTRIC STRIKE	
	REQUEST TO EXIT DEVICE	
	COAXIAL CABLE TV OUTLET	PROVIDE BOX & 3/4" CONDUIT TO 6" ABOVE FIN. CEILING/ CONCEALED SPACE
	3 BUTTON DOOR OPENER	
	360° CAMERA DOME CEILING MOUNT	PROVIDE 3/4" SLEEVE & BACK BOX AT EXTERIOR WALL LOCATIONS
	POLE MOUNTED EXTERIOR CAMERA	PROVIDE 3/4" SLEEVE & BACK BOX AT EXTERIOR WALL LOCATIONS
	FA AUDIO-VISUAL DEVICE CEILING MOUNTED	SIMPLEX 490G-9101
	FA VIDEO AUDIO DEVICE	SIMPLEX 490G-9127, # 15 DECIBEL LEVEL
	2' x 2' SUPPLY AIR DIFFUSER	
	2' x 2' RETURN AIR DIFFUSER	
	1'-0" x 1'-0" SUPPLY AIR DIFFUSER	
	1'-0" x 1'-0" EXHAUST GRILLE	
	CLG MOUNT EXIT SIGN	NI-CAD W/ SELF DIAGNOSTICS, PROVIDE 90 MINUTE BATTERY BACKUP
	CABLE TRAY	
	FIBER OPTICAL CABLING	
	MULTI COMPARTMENT POWER POLE	
	FLOOR BOX	
	PULL BOX	

SYMBOL	DESCRIPTION	MFC./NO. & REMARKS
	MULTI COMPARTMENT SURFACE RACEWAY	
	WALL MOUNT STYLE CAT. 6 TELEPHONE OUTLET	
	CATEGORY 6 TELEPHONE OUTLET # = QTY. OF OUTLETS IF GREATER THAN ONE	
	IP TELEPHONE LOCATION ### = PHONE TYPE	
	HORN TYPE SPEAKER	
	SPEAKER VOLUME CONTROL	
	CLOCK / SPEAKER	
	CLOCK	
	TELEVISION OUTLET	
	PROJECTOR	
	INTERACTIVE BOARD	
	AUDIO / VIDEO CONNECTIONS TO PROJECTOR	
	SECURITY CAMERA # = CAM NUMBER	
	INTERCOM	
	LIGHTING ARRESTOR	
	COMMUNICATIONS RACEWAY DEVICE LOCATION	
	COMMUNICATIONS BACKBOX LOCATION	
	EMERGENCY LIGHTING	SEE LIGHTING FIXTURE SCHEDULE
	HIGH BAY PENDANT MOUNT	SEE LIGHTING FIXTURE SCHEDULE
	2x2 FLAT PANEL RECESSED MOUNT	SEE LIGHTING FIXTURE SCHEDULE
	WALL PACK LIGHT FIXTURE	SEE LIGHTING FIXTURE SCHEDULE
	OVER DOOR WALL PACK MOUNT	SEE LIGHTING FIXTURE SCHEDULE
	EXIT SIGN LED W/ DUAL HEADLIGHTS	SEE LIGHTING FIXTURE SCHEDULE
	EXIT SIGN LED	SEE LIGHTING FIXTURE SCHEDULE
	INDUSTRIAL LIGHT FIXTURE	SEE LIGHTING FIXTURE SCHEDULE
	FLOOD LIGHT FIXTURE	SEE LIGHTING FIXTURE SCHEDULE
	SCONCE LIGHT FIXTURE	SEE LIGHTING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	ROOM NAME, #, & APPROXIMATE AREA		EARTH / COMPACT FILL
	BUILDING SECTION CALLOUT		POROUS FILL / GRAVEL
	WALL SECTION / DETAIL SECTION		CONCRETE / STRUCTURAL CONCRETE
	INTERIOR ELEVATION CALLOUT		SAND / ARCHITECTURAL PRECAST CONCRETE
	EXTERIOR ELEVATION CALLOUT		BRICK / BRICK PAVERS
	DETAIL / TITLE NUMBER		CONCRETE MASONRY
	COLUMN GRID LINE		STEEL
	CUT LINE		FINISH WOODWORK
	MATCH LINE		NOMINAL CUT LUMBER, CONTINUOUS BLOCKING
	CENTERLINE		BLOCKING, SHIM
	ELEVATION INDICATOR		PLYWOOD / PARTICLEBOARD
	CASEWORK NUMBER & TYPE - REFER TO CASEWORK SCHEDULE		PLASTIC / SOLID SURFACE
	WINDOW NUMBER		BATT INSULATION
	DOOR NUMBER		RIGID INSULATION
	WALL PARTITION TYPE		FIREPROOFING
	DEMOLITION KEYNOTE		GLAZING
	DRAWING KEYNOTE		LATH AND PLASTER
	MARKERBOARD AND TACKBOARD TYPES		CARPET
	TOILET ACCESSORY TAG		TERRAZZO
	FIRE EXTINGUISHER CABINET		CERAMIC TILE - SECTION
	ELEVATION MARK OR COORDINATE POINT		GYPSTUM WALL BOARD
	ROOF DRAIN	GENERAL SYMBOL ANNOTATIONS: "E" = EXISTING TO REMAIN "R" = EXISTING TO BE REPLACED "RE" = EXISTING TO BE RELOCATED "WG" = PROVIDE WIRE GUARD "W-MT" = WALL MOUNT	
	SLOPE		
	VENT PIPE		FUTURE AREA NOT IN PROJECT
	EXHAUST HOOD		FIRE ALARM CONTROL PANEL
	EXISTING WALL / CONSTR. TO REMAIN		
	DEMOLITION WORK		
	NEW MASONRY WALL CONSTRUCTION		
	NEW STUD WALL CONSTRUCTION		

SYMBOL	DESCRIPTION	
	HARD WIRED SMOKE DETECTOR	NI-CAD W/ SELF DIAGNOSTICS
	CARBON MONOXIDE DETECTOR	NI-CAD W/ SELF DIAGNOSTICS
	HEAT DETECTOR	NI-CAD W/ SELF DIAGNOSTICS
	RECESSED SPRINKLER HEAD	
	SEMI-RECESSED SPRINKLER HEAD	
	AUDIO ALARM DEVICE	
	AUDIO/VISUAL DEVICE	
	FIRE ALARM PULL BOX STATION	SIMPLEX 4099-9001
	FIRE ALARM CONTROL PANEL	
	EGRESS CAPACITY	
	ACCESSIBLE ENTRANCE	
	EXIT SIGN W/DOOR HEAD EMERGENCY LIGHTS	
	WALL MOUNTED EXIT SIGN, ARROW INDICATING DIRECTION	
	DUAL HEAD EMERGENCY LIGHT	
	EXTERIOR REMOTE HEAD EMERGENCY LIGHT	
	WALL MOUNTED PORTABLE FIRE EXTINGUISHER W/SIGNAGE	
	1 HR RATED FIRE WALL	
	2 HR RATED FIRE WALL	
	3 HR RATED FIRE WALL	
	EGRESS PATH	
	ALTERNATE EGRESS PATH	
	FUTURE AREA NOT IN PROJECT	
	FIRE ALARM CONTROL PANEL	SIEMENS CERBERUS PRO FC922 (OR EQUAL)

DATE
11-10-25

ISSUED / REVISIONS

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637-639 WINSOR AVE
ELMIRA, NY 14901

OWNER/CLIENT

FRIENDS OF ELMIRA CIVIL WAR PRISON CAMP

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10.28.2025
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G-1.1

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ABBREVIATIONS

A	AREA
A/C	AIR CONDITIONING
AB	ANCHOR BOLT
ABV	ABOVE
AC	ALTERNATING CURRENT
ACT	ACOUSTIC CEILING TILE
ACW	ALUMINUM CLAD WOOD
AD	AREA DRAIN
ADD	ADDENDUM
ADH	ADHESIVE
ADJ	ADJACENT
ADO	AUTOMATIC DOOR OPENER
AESS	ARCH EXPOSED STRUCTURAL STEEL
A.F.F.	ABOVE FINISH FLOOR
A.F.G.	ABOVE FINISH GRADE
AGG	AGGREGATE
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
AMP	AMPERAGE
ANC	ANCHOR(AGE)
ANOD.	ANODIZED
APPROX.	APPROXIMATE
ARCH	ARCHITECT(URAL)
ASB	ASBESTOS
ASBC	ASBESTOS CONTRACTOR
ASPH	ASPHALT
AWG	AMERICAN WIRE GAGE
AWN	AWNING
AUX	AUXILIARY

B

BCU	BLOWER CONTROL UNIT
BCJ	BRICK CONTROL JOINT
BCNYS	BUILDING CODE OF NEW YORK STATE
BD	BOARD
BEJ	BRICK EXPANSION JOINT
BEL	BELOW
BEV	BEVELED
BEF	BOARD FEET
BEL	BELOW
BF	BOARD FEET
BIT	BITUMINOUS
BL	BUILDING LINE
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BENCH MARK
BO	BOTTOM OF
BOF	BOTTOM OF FOOTING
BOT	BOTTOM
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
BPL	BEARING PLATE
BRD	BOARD
BRG	BEARING
BRK	BRICK
BRM	BEDROOM
BS	BOTH SIDES
BUR	BUILT-UP ROOF
BW	BOTH WAYS

C

C	CHANNEL
C-C	CENTER TO CENTER
CAB	CABINET
CAP	CAPACITY
CB	CATCH BASIN
CBF	HUNDRED BOARD FEET
CD	COLD DRAIN
CEM	CEMENT
CER	CERAMIC
CF	CUBIC FOOT
CFLG	COUNTER FLASHING
CFM	CUBIC FEET PER MINUTE
CFMF	COLD-FORMED METAL FRAMING
CFS	CUBIC FEET PER SECOND
CH	CABINET HEATER
CHBD	CHALKBOARD
CI	CAST IRON
CIP	CAST-IN-PLACE CONCRETE
CIR	CIRCLE
CJ	CONTROL JOINT
CK	CAULK(ING)
CL	CENTERLINE
CLAD	ALUMINUM CLAD

CLG	CEILING
CLO	CLOSET
CLR	CLEAR(ANCE)
CLS	CLOSURE
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT , COMPANY
COL	COLUMN
COMB	COMBINATION
COMP	COMPACT(ED)
CONC	CONCRETE
CON	CONNECTOR, CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS, CONTINUE
CONTR	CONTRACT(OR)
COORD	COORDINATE
CP	CLAY PIPE
CPG	COPING
CPT	COPPER
CPR	CARPET(ED)
CR	COLD ROLLED
CRS	COURSE(S)
CS	COVER SHEET
CSMT	CASEMENT
CST	CAST STONE
CT	CERAMIC TILE
CTR	COUNTER
CU	CUBIC
CULV	CULVERT
CV	CHECK VALVE
CW	COLD WATER
CY	CUBIC YARD

D

DBL	DOUBLE
DC	DIRECT CURRENT
DEG	DEGREE
DEMO	DEMOLISH, DEMOLITION
DF	DRINKING FOUNTAIN
DH	DOUBLE HUNG
DIA, Ø	DIAMETER
DIAG	DIAGONAL, DIAGRAM
DIM	DIMENSION
DIV	DIVISION
DL	DEAD LOAD
DLV	DOOR LOUVER
DMPR	DAMPER
DN	DOWN
DOZ	DOZEN
DP	DAMP-PROOFING
DR	DOOR
DS	DOWNSPOUT
DT	DRAIN TILE
DTA	DOVETAIL ANCHOR
DTL	DETAIL
DW	DISHWASHER
DWG	DRAWING

E

EBCNYS	EXISTING BUILDING CODE OF NEW YORK STATE
EC	ELECTRICAL CONTRACTOR
EF	EACH FACE
EIFS	EXTERIOR INSULATED FASCIA SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
EMER	EMERGENCY
ENC	ENCLOSE, ENCLOSURE
ENG	ENGINEER
ENT	ENTRANCE
EOC	EVERY OTHER COURSE
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EP	ELECTRICAL PANEL
EQ	EQUAL
ES	EACH SIDE
EST	ESTIMATE(D)
EW	EACH WAY
EWV	ELECTRIC WATER COOLER
EWf	ELECTRIC WALL FAN
EXC	EXCAVATE
EXG	EXISTING
EXH	EXHAUST
EXP	EXPOSED
EXT	EXTERNAL, EXTERIOR

F

FA	FIRE ALARM, FRESH AIR
FAB	FABRICATE

FAI	FRESH AIR INTAKE
FAS	FASTENER
FB	FACE BRICK
FBO	FINISHED BY OTHERS
FBR	FIBERBOARD
FC	FAN COIL
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FDN	FOUNDATION
FDR	FOLDING DOOR
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
FFE	FINISH FLOOR ELEVATION
FG	FIBERGLASS
FGL	FIBERGLASS
FIG	CLAY PIPE
FIN	FINISH(ED)
FLCO	FLOOR CLEANOUT
FLEX	FLEXIBLE
FLG	FLASHING
FLOUR	FLOURESCENT
FLR	FLOOR(ING)
FO	FRAMED OPENING
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUDS
FP	FIRE PROOF
FPL	FLOOR PLATE
FR	FRAME(D), FRAMING
FRT	FIRE-RETARDANT
FS	FRAME SIZE
FT	FOOT, FEET
FTG	FOOTING
FUR	FURRED, FURRING
FURN	FURNITURE
FXT	FIXTURE

G

G	GAS
GA	GAGE, GAUGE
GALV	GALVANIZD
GB	GRAB BAR
GC	GENERAL CONTRACT(OR)
GCMU	GLAZED CMU
GD	GRADE, GRADING
GF	GRANULAR FILL
GFI	GROUND FAULT INTERRUPTER
GI	GALVANIZED IRON
GL	GLASS, GLAZING
GP	GALVANIZED PIPING
GPM	GALLONS PER MINUTE
GSS	GALVANIZED STEEL SHEET
GST	GLAZED STRUCTURAL TILE
GVL	GRAVEL
GWB	GYP SUM WALL BOARD
GYP	GYP SUM

H

HB	HOSE BIB
HC	HVAC CONTRACTOR
HCP	HANDICAP
HD	HEAVY DUTY
HJDT	HEAD JOINT
HDR	HEADER
HDW	HARDWARE
HDWD	HARDWOOD
HH	HANDHOLE
HI	HEIGHT OF INSTRUMENT
HK	HOOK(S)
HM	HOLLOW METAL
HOR	HORIZONTAL
HP	HORSEPOWER
HR	HANDRAIL
HS	HARDWARE SET
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HTX	HEAT EXCHANGE
HVAC	HEATING, VENTILATION & AIR CONDITIONING
HW	HOT WATER
HWH	HOT WATER HEATER
HYD	HYDRANT

I

ID	INSIDE DIAMETER
IN	INCH(')
INCIN	INCINERATOR
INCL	INCLUDE(D), INCLUDING

INFO	INFORMATION
INS	INSULATE(D)
INSMTL	INSULATED METAL
INT	INTERIOR
INTERM	INTERMEDIATE
INV	INVERT (ELEVATION)
IP	IRON PIPE / IRON PIPE SIZE

J

JC	JANITOR'S CLOSET
JF	JOINT FILLER
JNT	JOINT
JST	JOIST

K

KIT	KITCHEN
KO	KNOCKOUT
KPL	KICKPLATE

L

L	LENGTH
LAB	LABORATORY
LAD	LADDER
LAM	LAMINATED
LAT	LATITUDE, LATITUDINAL
LAV	LAVATORY
LBL	LABEL
LED	LIGHT EMITTING DIODE
LF	LINEAR FOOT
LGMF	LIGHT GAUGE METAL FRAMING
LH	LEFT HAND
LIC	LICENSE(D)
LIN	LINEAR
LINO	LINOLEUM
LIQ	LIQUID
LKR	LOCKER
LL	LIVE LOAD
LH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LMS	LIMESTONE
LONG	LONGITUDE, LONGITUDINAL
LP	LIGHT PLATE
LPT	LOW POINT
LRG	LARGE
LS	LANDSCAPE
LT	LIGHT
LTG	LIGHTING
LTL	LINTEL
LVL	LAMINATED VENEER LUMBER, LEVEL
LVR	LOUVER

M

MACH	MACHINE
MAH	MAHOGANY
MAINT	MAINTENANCE
MANUF	MANUFACTURER
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MBF	MEMBER
MC	MECHANICAL CONTRACT(OR)
MDF	MEDIUM DENSITY FIBERBOARD
MDO	MEDIUM DENSITY OVERLAY
MED	MEDIUM
MECH	MECHANICAL
MEM	MEMBRANE
MFD	MANUFACURED
MFG	MANUFACTURING
MFR	MANUFACTUR(ER)
MGMT	MANAGEMENT
MGR	MANAGER
MH	MANHOLE
MIN	MINIMUM
MIR	MIRROR
MKBD	MARKERBOARD
MLD	MOULDING, MOLDING
MMB	MEMBRANE
MO	MASONRY OPENING
MOD	MODULAR
MON	MONUMENT
MOV	MOVABLE
MRB	MARBLE
MRD	METAL ROOF DECKING
MNT	MOUNT
MTFR	METAL FURRING
MTL	METAL
MUL	MULLION
MULT	MULTIPLE
MWK	MILLWORK

N

NA	NOT AVAILABLE, NOT APPLICABLE
NAT	NATURAL
NEC	NATIONAL ELECTRICAL CODE, NECESSARY
NEG	NEGATIVE
N/F	NOW OR FORMERLY
NIC	NOT IN CONTRACT
NL	NAILABLE
NMT	NONMETALLIC
NO	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
N5	NEAR SIDE
NT5	NOT TO SCALE

O

OA	OVERALL
OBS	OBSCURE
OC	ON CENTER(S)
OD	OUTSIDE DIAMETER
OFF	OFFICE
O/H	OVERHEAD
OHG	OVERHANG
OPG	OPENING
OPH	OPPOSITE HAND
OPP	OPPOSITE
OPS	OPPOSITE SURFACE
ORIG	ORIGINAL
OWSJ	OPEN-WEB STEEL JOIST

P

P	PLUMBING
PA	PUBLIC ADDRESS
PAR	PARALLEL
PART	PARTITION
PB	PANIC BAR
PBD	PARTICAL BOARD
PLBG	PLUMBING
PC	PLUMBING CONTRACT(OR)
PCC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PE	PORCELAIN ENAMEL
PEN	PENETRATION
PERF	PERFORATE(D)
PERI	PERIMETER
PERM	PERMANENT
PERP	PERPENDICULAR
PFB	PRE FABRICATE(D)
PFN	PREFINISHED
PG	PLATE GLASS
PKG	PARKING
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAST	PLASTER
PLF	POUNDS PER LINEAR FOOR
PLS	PLASTIC
PLT	PLATE
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT(ED)
POB	POINT OF BEGINNING
POL	POLISHED
POS	POSITIVE
PR	PAIR
PREP	PREPARE
PRF	PREFORMED
PROJ	PROJECT
PRT	PRESERVATIVE TREATED
PSC	PRE-STRESSED CONCRETE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
PTR	PAPER TOWEL RECEPTOR
PUR	POLYURETHANE
PV	PAVE(D), PAVING
PVC	POLYVINYL CHLORIDE
PVCP	PVC PIPE
PVMT	PAVEMENT
PWD	PLYWOOD
PWR	POWER

Q

QA	QUALITY ASSURANCE
QC	QUALITY CONTROL
QT	QUARRY TILE
QTR	QUARTER
QTY	QUANTITY

R

R	RISE(R)
RA	RETURN AIR
RAD	RADIUS
RBR	RUBBER
RBT	RABBET
RC	REINFORCED CONCRETE
RCP	REINFORCED CONCRETE PIPE
RCP	REFLECTED CEILING PLAN
REF	REFERENCE
REFR	REFRIGERATE(D), REFIRGERATOR
REG	REGISTER
REINF	REINFORCE(D), REINFORCING
REQ	REQUIRED
RES	RESILIENT
RET	RETURN
REV	REVISED, REVISION(S)
RFG	ROOFING
RFH	ROOF HATCH
RFL	REFLECT(ED), (IVE), (OR)
RH	RIGHT HAND
RIM	RIM (ELEVATION)
RL	RAIL(ING)
RM	ROOM
RMV	REMOVE
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RP	RADIANT PANEL
RPM	REVOLUTIONS PER MINUTE
RS	RIENFORCING STEEL
RT	RUBBER TILE
RTE	ROUTE
RWC	RAINWATER CONDUCTOR

S

SAN	SANITARY (SEWER)
SB	SPLASHBLOCK
SC	SOLID CORE
SCHED	SCHEDULE
SCN	SCREEN
SD	SMOKE DETECTOR
SDG	SIDING
SEC	SECTION
SF	SQUARE FOOT
SFGL	SAFETY GLASS
SFR	STORE FOR REUSE
SGT	STRUCTURAL GLAZED TILE
SH	SILL HEIGHT
SHT	SHEET
SHTG	SHEATHING
SHWR	SHOWER
SIM	SIMILAR
SKL	SKYLIGHT
SL	SLIDING
SNT	SEALANT
SP	SOUND PROOF
SPC	SPACER
SPEC	SPECIFICATION(S)
SPKR	SPEAKER
SPL	SPECIAL
SQ	SQUARE
SSK	SERVICE SINK
SS	STAINLESS STEEL
ST	STREET
STA	STATION
STV	SOUND TRANSMISSION COEFFICIENT
STD	STANDARD
STL	STEEL
STN	STAIN(ED)
STND	STANDARD
STOR	STORAGE
STR	STRUCTURAL
SUBSTR	SUBSTRUCTURE
SUP	SUPPLY
SUPT	SUPERINTENDENT
SURF	SURFACE
SUSP	SUSPENDED
SW	SWITCH
SY	SQUARE YARD
SYS	SYSTEM

T

T	TREAD
TRM	TOILET ROOM
T#B	TOP # BOTTOM
T#G	TONGE & GROOVE
TAB	TABULATE
TC	TERRA COTTA
TEL	TELEPHONE

TEMP	TEMPORARY, TEMPERATURE
TF	TRANSPARENT FINISH
THK	THICK(NESS)
THR	THRESHOLD
TKBD	TACKBOARD
TKS	TACKSTRIP
TL	TILE
TMBR	TERMINATION BAR
TOF	TOP OF FOOTING
TOJ	TOP OF JOIST
TOL	TOLERANCE
TOM	TOP OF MASONRY
TOPO	TOPOGRAPHY, TOPOGRAPHIC
TOS	TOP OF STEEL
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TR	TRANSOM
TV	TELEVISION, CABLE
TWP	TOWNSHIP
TYP	TYPICAL
TPTN	TOILET PARTITION
TZ	TERRAZZO

U

U/G	UNDERGROUND
UC	UNDERCUT
UN	UNLESS NOTED
UNF	UNFINISHED
UON	UNLESS OTHERWISE NOTED
UNP	UNPAINTED
UR	URINAL
UH	UNIT HEATER
UL	UNDERWRITER'S LABORATORIES
UNEX	UNEXCAVATED
UV	UNIT VENTILATOR

V

V	VENT, VOLT, VOLTAGE
VB	VINYL/RUBBER BASE
VCP	VITRIFIED CLAY PIPE
VCT	VINYL COMPOSITION TILE
VENT	VENTILATOR
VERT (V)	VERTICAL
VEST	VESTIBULE
VF	VINYL FABRIC
VIF	VERIFY IN FIELD
VIN	VINYL
VJ	V-JOINT(ED)
VOL	VOLUME
VWC	VINYL WALL COVERING
VAR	VARIABLE, VARIES
VAV BOX	VARIABLE AIR VOLUME BOX
VTR	VENT THROUGH ROOF

W

W	WIDE, WIDTH, WASTE, WATT, WEST
W/	WITH
W/O	WITHOUT
WB	WOOD BASE, WET BULB
WC	WATER CLOSET (TOILET)
WD	WOOD
WF	WALL FIN RADIATION
WG	WIRE(D) GLASS
WH	WATER HEATER, WALL HYDRANT
WHB	WHEEL BUMPER
WI	WROUGHT IRON
WM	WIRE MESH
WCO	WALL CLEANOUT
WDW	WINDOW
WP	WATERPROOF(ED), (ING)
WR	WATER REPELLENT
WS	WATERSTOP
WSCOT	WAINSCOT
WT	WEIGHT
WTW	WALL TO WALL
WV	WALL VENT
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH

FIRE & LIFE SAFETY GENERAL NOTES

1. VERIFY LOCATIONS OF NEW WORK REQUIRED FOR CONSTRUCTION.
2. THIS CONTRACTOR IS RESPONSIBLE FOR CUTTING & PATCHING MADE NECESSARY BY THEIR WORK. PATCHING & FINISHING SHALL MATCH ADJACENT SURFACES.
3. ALL DEBRIS & ITEMS SHALL BE REMOVED FROM THE JOB SITE & PROPERLY DISPOSED OF, EXCEPT AS DIRECTED BY THE OWNERS REPRESENTATIVE.
4. COORDINATE ALL WORK WITH THE FUNCTIONS OF ADJACENT AREAS. PROVIDE SLAB CUTTING & PATCHING AS NECESSARY TO MAKE CONNECTIONS.
5. DO NOT INSTALL ANY FIRE PROTECTION WORK ABOVE ELECTRICAL PANELS.
6. SLEEVE & SEAL ALL PIPE PENETRATIONS OF WALLS & FLOORS. PACK VOID BETWEEN PIPE & SLEEVE WITH INSULATION IN NON-RATED WALLS & FLOORS. PACK VOID BETWEEN PIPE & SLEEVE WITH INSULATION IN FIRE-RATED WALLS & FLOORS. APPLY INTUMESCENT FIRE SAFING COMPOUND AT PENETRATION, MAINTAINING INTEGRITY & RATING OF FIRE SEPARATION. SLEEVES THROUGH FLOORS SHALL EXTEND 2" ABOVE FLOOR, BE GROUTED INTO PLACE & WATERPROOFED. PIPING THROUGH EXTERIOR WALLS SHALL BE SLEEVED & SEALED WEATHER TIGHT.
7. COVERAGE SHALL MEET OR EXCEED THE REQUIREMENTS OF NFPA-13. FIELD CONDITIONS MAY DICTATE ADDITIONAL HEADS BE PROVIDED. CONTRACTOR SHALL MAKE PROVISIONS FOR SUCH CIRCUMSTANCES. NO ADDITIONAL COSTS WILL BE ALLOWED FOR SUCH SITUATIONS.
8. CONTRACTOR SHALL VISIT THE SITE AND EXAMINE THE EXISTING CONDITIONS PRIOR TO SUBMITTING THEIR BID. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR CIRCUMSTANCES ARISING OUT OF CONTRACTORS FAILURE TO PERFORM THIS EXAMINATION.
9. FIRE PROTECTION CONTRACTOR TO INSTALL SPRINKLERS AND TEST SYSTEM PER NFPA-13.
10. THE ENTIRE INSTALLATION OF THE FIRE PROTECTION SYSTEM SHALL BE IN ACCORDANCE WITH "NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE", THE LATEST EDITION OF N.Y.P.A. PAMPHLET #13 AND THE OWNER'S INSURANCE CARRIER, AS WELL AS THE LOCAL FIRE DEPARTMENT REGULATIONS.
11. THE SPRINKLER HEADS INDICATED ON THE PLANS ARE SHOWN FOR BIDDING AND APPROVAL PURPOSES ONLY. THE PIPING SYSTEM MUST BE DESIGNED HYDRAULICALLY BY THE CONTRACTOR TO PROVIDE THE PRESCRIBED DENSITY OVER THE MOST REMOTE SPECIFIED AREA. ANY CHANGES IN LAYOUT REQUIRED BY THE FINAL DESIGN PROCEDURE SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER. THE FOLLOWING ARE DESIGN STANDARDS FOR SPRINKLER WORK. THE CONTRACTOR SHALL VERIFY THESE STANDARDS WITH OWNERS INSURANCE CARRIER.
12. ALL AREAS: LIGHT HAZARD GROUP, .10 GPM/SQ. FT. OVER 1500 SQ. FT., 225 SQ. FT. PER HEAD MAXIMUM COVERAGE, WET SYSTEM.

FIRE & LIFE SAFETY SYMBOLS

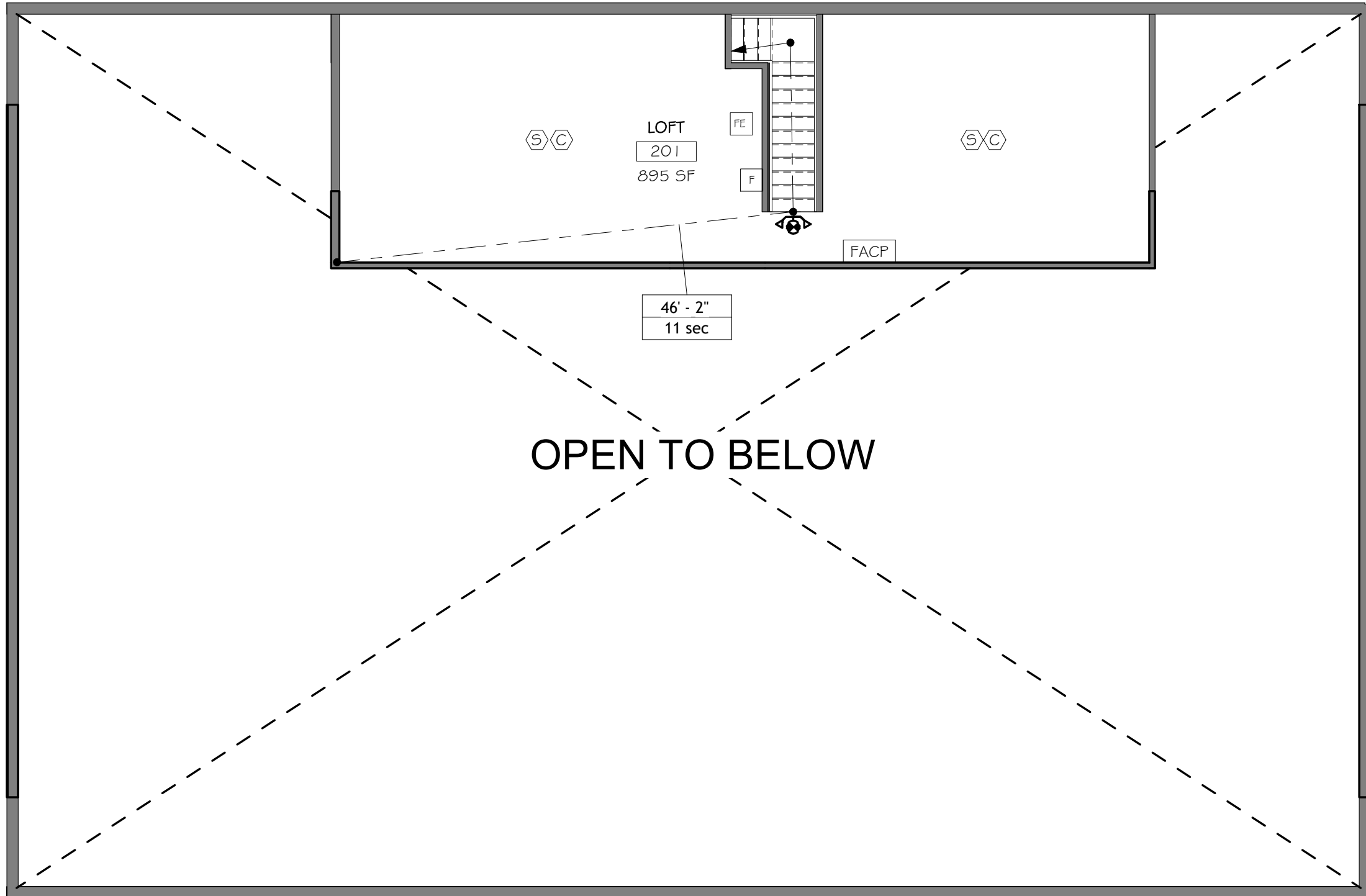
	EXIT SIGN WDOOR HEAD EMERGENCY LIGHTS		OPEN TO BELOW, UNEXCAVATED, OR VERTICAL SHAFT
	WALL MOUNTED EXIT SIGN ARROW INDICATING DIRECTION		ACCESSIBLE ENTRANCE
	DUAL HEAD EMERGENCY LIGHT		FIRE PULL
	EXTERIOR REMOTE HEAD EMERGENCY LIGHT		FIRE ALARM W/STROBE
	WALL MOUNTED PORTABLE FIRE EXTINGUISHER W/SIGNAGE		HARD WIRED SMOKE DETECTOR
	EGRESS PATH		CARBON MONOXIDE DETECTOR
	ALTERNATE EGRESS PATH		HEAT DETECTOR
	AUDIO/VISUAL DEVICE		RECESSED SPRINKLER HEAD
	FIRE ALARM PULL BOX STATION		SEMI-RECESSED SPRINKLER HEAD
	FIRE ALARM CONTROL PANEL		DENOTES FUTURE PHASE WALLS

PROJECT CODE INFORMATION

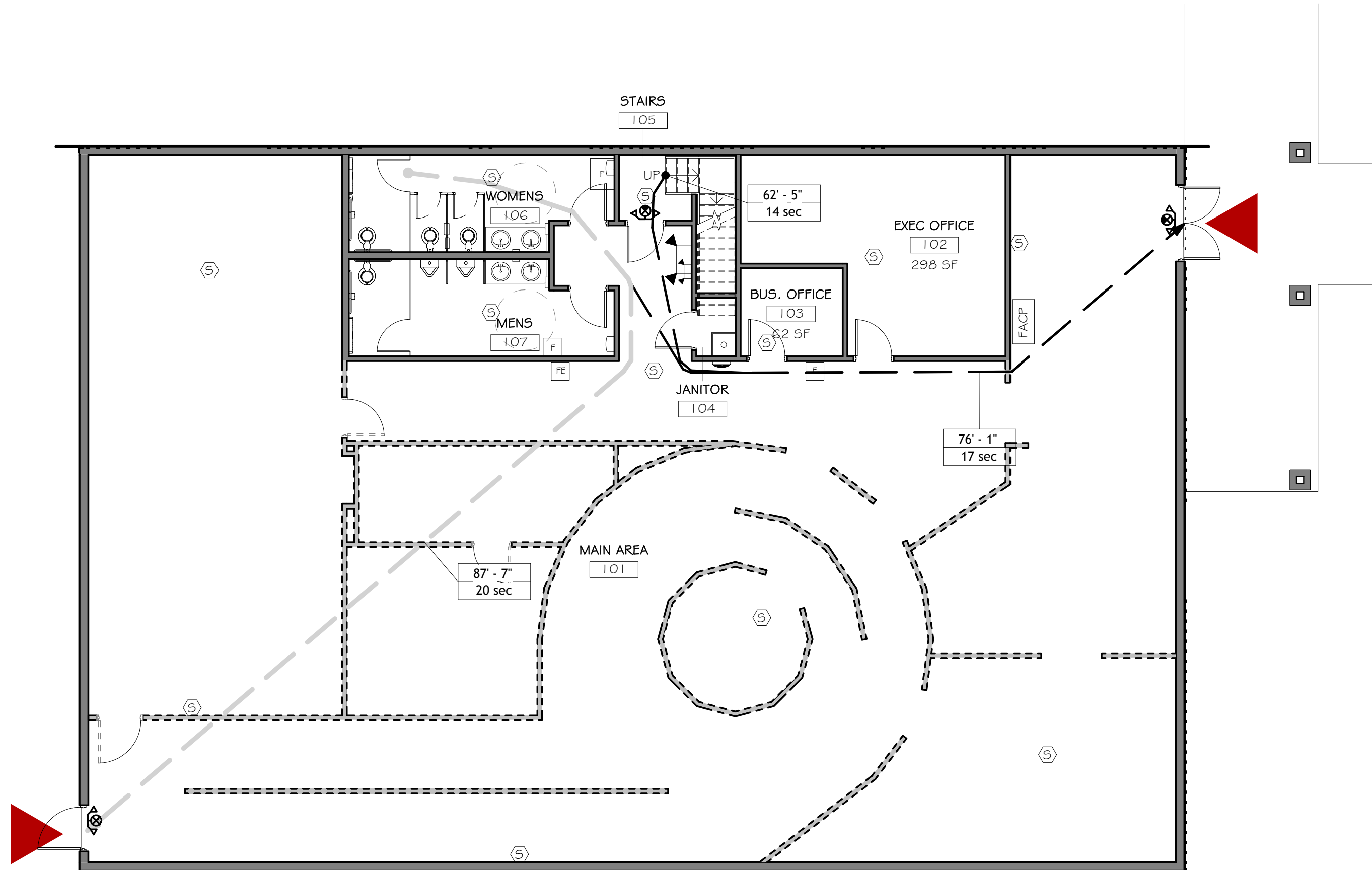
- THE BUILDING SHALL BE IN COMPLIANCE WITH THE MOST RECENT VERSION OF THE FOLLOWING CODES:
- 2020 BUILDING CODE OF NEW YORK STATE (NYSBC)
 - 2020 ENERGY CONSERVATION CODE OF NY YORK STATE (NYSECC)
 - 2020 FIRE CODE OF NEW YORK STATE (NY5FC)
 - 2020 MECHANICAL CODE OF NEW YORK STATE (NYSMC)
 - 2020 PLUMBING CODE OF NEW YORK STATE (NY5PC)
 - 2014 NATIONAL ELECTRICAL CODE (NEC)
 - 2013 ICC/ANSI A117.1
 - CURRENT NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

EXISTING BUILDING INFO				
		NOTES		SECTION
DESCRIPTION	NEW CONSTRUCTION OF A VISITOR CENTER FOR THE PRISON CAMP			
CLASSIFICATION OF WORK	NEW CONSTRUCTION	--		
OCCUPANCY CLASS AND SQUARE FOOTAGE				
OCCUPANCY	CLASS	SQ. FT.	NOTES	SECTION
ASSEMBLY (A-3)	A-3	6,369	BED & BREAKFAST	NYSBC 302-312
		15,898	TOTAL BUILDING	
CONSTRUCTION TYPE				
OCCUPANCY	CONST. TYPE	NOTES		SECTION
A-3	VB	--		NYSBC 602
CONSTRUCTION TYPE REQUIREMENTS				
BUILDING ELEMENT	RATING	CONST. TYPE	NOTES	SECTION
STRUCTURAL FRAME	0	VB		NYSBC TABLE 601
BEARING WALLS (EXT.)	0	VB		
BEARING WALLS (INT.)	0	VB		
NON-BEARING WALLS (EXT.)	0	VB		NYSBC TABLE 602
NON-BEARING WALLS (INT.)	0	VB		NYSBC TABLE 601
ROOF CONSTRUCTION	0	VB		
ALLOWABLE HEIGHTS AND AREA				
REQUIREMENT	ALLOWABLE	ACTUAL	NOTES	SECTION
BUILDING HEIGHT				NYSBC TABLE 504.3
ASSEMBLY (A-3)	60 FT	32 FT 1 IN	SPRINKLERED	
NUMBER OF STORIES				NYSBC TABLE 504.4
ASSEMBLY (A-3)	3 STORIES	2 STORIES	SPRINKLERED	
SQUARE FOOTAGE				NYSBC TABLE 506.2
ASSEMBLY (A-3)	18,000	6,369		
FIRE PROTECTION SYSTEMS				
ELEMENT	REQUIRED	PROVIDED	NOTES	SECTION
SPRINKLER SYSTEM	YES	YES	S13 NFPA 13	NYSBC 903
YARD HYDRANTS	N/A	NO		NYSBC 903
STANDPIPE SYSTEMS	NO	NO		NYSBC 905
PORTABLE FIRE EXTINGUISHERS	YES	YES		NYSBC 906
FIRE ALARM/DETECTION SYSTEMS	NO	YES	SMOKE ALARMS PROVIDED	NYSBC 907
SMOKE AND HEAT VENTS	NO	NO		NYSBC 910

CORRIDORS AND INCIDENTAL USE AREAS						
ELEMENT	RATING		NOTES		SECTION	
FURNACE / BOILER ROOMS (LOFT - MECHANICAL SPACE)	0		SPRINKLER SYSTEM PROVIDED		NYSBC TABLE 508.9	
OCCUPANT LOAD						
FUNCTION OF SPACE	SQ. FT.	RATIO		OCCUPANTS	NOTES	SECTION
ASSEMBLY, A-3	4,446	30 NET		143		NYSBC TABLE 1004.5
BUSINESS	366	150 GROSS				
MECHANICAL	858	300 GROSS		3		
TOTAL OCCUPANTS				149		
MEANS OF EGRESS						
ELEMENTS	REQUIREMENT		NOTES		SECTION	
OCCUPANTS	149		RE: OCCUPANT LOAD ABOVE			
DOORS & CORRIDORS	0.2' x OCC LOAD		44" WIDTH MINIMUM REQUIRED			NYSBC 1005
STAIRS	0.3' x OCC LOAD					NYSBC 1010 NYSBC 1011.2
TRAVEL DISTANCE	250 FT MAX		(SPRINKLERED)			NYSBC TABLE 1017.2
TOTAL EXITS						
FIRST FLOOR EXITS	2					NYSBC 1006.3
SECOND FLOOR EXITS	1					
PLUMBING FIXTURES						
OCCUPANTS	REQUIRED			PROVIDED		SECTION
ASSEMBLY (A-3)	MALE - 57	FEMALE - 57		MALE	FEMALE	NYSBC TABLE 403.1
WATER CLOSETS (1 PER 75)	1	2		1 & 2 URINAL	3	
LAVATORIES (1 PER 200)	1	1		2	2	
DRINKING FOUNTAIN (1 PER 500)	1			1		
SERVICE SINK	1			1		
ENERGY COMPLIANCE						
APPLICABILITY	CHANGE IN OCCUPANCY		MUST COMPLY WITH IECC			IECC 101
CLIMATE ZONE	5A					NYSECC TABLE 301.1
BUILDING ELEMENT	TYPE OF CONSTRUCTION		INSULATION REQUIREMENT	NOTES		SECTION
ROOF	ATTIC AND OTHER		R-38			NYSECC 502
WALLS, ABOVE GRADE	WOOD FRAMED		R-13 + R-3.8 CI OR R20			
WALLS, BELOW GRADE	BELOW GRADE WALL		R-7.5 CI			
FLOORS	JOIST/FRAMING		R-30			
SLAB-ON-GRADE FLOORS	UNHEATED		R-10 FOR 24" BELOW			
OPAQUE DOORS	SWING		U-.37			



3 LOFT LIFE SAFETY PLAN
1/8" = 1'-0"



2 FIRST FLOOR LIFE SAFETY PLAN
1/8" = 1'-0"

PRELIMINARY
NOT FOR CONSTRUCTION

NOT APPROVED
THIS PLAN HAS NOT RECEIVED FINAL APPROVAL OF ALL REVIEWING AGENCIES. THIS PLAN IS SUBJECT TO REVISIONS UNTIL ALL APPROVALS ARE OBTAINED AND SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES.

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OWNER/CLIENT

FRIENDS OF ELMIRA CIVIL WAR PRISON CAMP

PROJECT
ELMIRA CIVIL WAR VISITOR CENTER
637-639 WINSOR AVE
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TITLE OF DRAWING
CODE REVIEW, LIFE SAFETY, AND SPECIFICATIONS

DRAWING SCALE
AS NOTED
ISSUE DATE:
10.28.2025
PROJECT NO.
25-086
DRAWING NO.

C-1.1

Diagram illustrating a kitchen layout with dimensions and notes:

- Refrigerator/Freezer height: 45" MAX
- Refrigerator/Freezer width: 48" MAX
- Refrigerator/Freezer width: 50% OF REFRIGERATOR/FREEZER SHALL BE 54" MAX HEIGHT AFF (ANSI 804.6.6)
- Cabinet height: 46" MAX
- Cabinet width: 34" MAX
- Countertop height: 27" MAX
- Countertop width: 30" CLEAR
- Notes:
 - (SEE NOTE #1)
 - (SEE NOTE #3)
 - (SEE NOTE #4)
 - FORWARD APPROACH REQUIREMENT (SEE NOTE #2)

SHELVES & CLOSETS

DOOR TYPE:
1. MINIMUM 10' HIGH SMOOTH SURFACE AT DOOR BOTTOM, EITHER ATTACHED PANEL OR BOTTOM RAIL.

(WHERE INDICATED)
A NARROW FRAME WITH A BEVELED TOP EDGE (60 DEGREE MAXIMUM BEVEL TO HORIZONTAL PLANE) INSTALLED AT THE BOTTOM OF A GLASS DOOR (WITH NO SIDE FRAMES) MAY BE USED IN LIEU OF PROVIDING THE REQUIRED 10-INCH UNINTERRUPTED SURFACE AT THE BOTTOM OF THE DOOR.

LEVER OR U SHAPED HANDLE MOUNTED AT 34" TO 48" AFF

10" MIN. BOTTOM RAIL

A diagram showing a person in a wheelchair reaching for a shelf. The person is positioned with their back to the viewer, facing a wall with a shelf. The person's arm is extended upwards to reach the shelf. The diagram includes the following dimensions and labels:

- A vertical dimension of 48" MAX. is shown on the left side, indicating the height from the floor to the top of the shelf.
- A horizontal dimension of 21" MAX. is shown at the bottom, indicating the distance from the front of the wheelchair to the shelf.
- A horizontal dimension of 21" MAX. is shown at the bottom, indicating the distance from the back of the wheelchair to the shelf.
- A vertical dimension of 10" is shown on the right side, indicating the height from the shelf to the top of the person's head.
- A vertical dimension of 6" MIN. is shown on the right side, indicating the height from the floor to the bottom of the shelf.

LETTERS AND NUMBERS: 11

PROVIDE TACTILE SIGNAGE AS PER ANSI CODE SECTION 703

TACTILE SIGNAGE MOUNTING HEIGHTS

INTERNATIONAL SYMBOLS FOR ACCESSIBILITY

RAISED

RESTROOMS

MEN

WOMEN

GENERAL RESTROOM SIGNAGE

INTERNATIONAL TDD SYMBOL

INTERNATIONAL SYMBOL OF ACCESS FOR HEARING IMPAIRED

PROPORTIONS FOR INTERNATIONAL SYMBOLS FOR ACCESSIBILITY

1. LETTERS AND NUMERALS SHALL BE RAISED 0.125" (0.8 MM) MINIMUM, UPPERCASE, SANS-SERIF OR SIMPLE SERIF AND SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE. RAISED CHARACTERS SHALL BE AT LEAST 5/8" (16 MM) HEIGHT, BUT NO HIGHER THAN 2" (50 MM). PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSIONS OF THE PICTOGRAM SHALL BE 6" (152 MM) MINIMUM IN HEIGHT. (ADAAG SEC. 4.30.4)
4. LETTERS AND NUMBERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10. (ADAAG SEC. 4.30.2)
5. THE CHARACTERS AND BACKGROUND OF SIGNS SHALL BE EGGSHELL, MATE OR OTHER NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND - EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND. (ADAAG SEC. 4.30.5)
6. CHARACTERS AND NUMBERS ON SIGNS SHALL BE SIZED ACCORDING TO THE VIEWING DISTANCE FROM WHICH THEY ARE TO BE READ. THE MINIMUM HEIGHT IS MEASURED USING AN UPPER CASE X. LOWER CASE CHARACTERS ARE PERMITTED. (ADAAG SEC. 4.30.3)
7. BRAILLE SHALL BE CONTRACTED (GRADE 2) BRAILLE AND SHALL COMPLY WITH SECTION 703.4. (ICC/ANSI SEC. 703.4.1)
8. BRAILLE SHALL BE BELOW THE CORRESPONDING TEXT. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8" (9.5 MM) MIN. FROM ANY OTHER TACTILE CHARACTERS AND 3/8" (9.5 MM) MIN. FROM RAISED BORDER AND DECORATIVE ELEMENTS. BRAILLE PROVIDED ON ELEVATOR CAR CONTROLS SHALL BE SEPARATED 3/8" (9.5 MM) MIN. EITHER DIRECTLY BELOW OR ADJACENT TO THE CORRESPONDING RAISED CHARACTERS OR SYMBOLS. (ICC/ANSI SEC. 703.4.4)

SIGN LOCATIONS:

9. ALL BUILDING ENTRANCES THAT ARE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES AND AT EVERY MAJOR JUNCTION ALONG OR LEADING TO AN ACCESSIBLE ROUTE OF TRAVEL SHALL BE IDENTIFIED WITH A SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS. (ICC/IBC SEC. 111.0)
10. WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE TO THE LATCH SIDE OF THE DOOR, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. MOUNTING HEIGHT SHALL BE 60" (1525 MM) ABOVE THE FINISH FLOOR TO THE CENTERLINE OF THE SIGN. MOUNTING LOCATION FOR SUCH SIGNAGE SHALL BE SO THAT A PERSON MAY APPROACH WITHIN 3" (76 MM) OF THE SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR. (ADAAG SEC. 4.30.6)
11. ADDITIONAL DIRECTIONAL SIGNS ALONG ACCESSIBLE PATH OF TRAVEL ARE REQUIRED. (ICC/IBC SEC. 111.0)

INTERNATIONAL SYMBOL OF ACCESSIBILITY:

12. STANDARD USED TO IDENTIFY ACCESSIBLE FACILITIES.

BRAILLE: (ICC/ANSI TABLE 703.4.3)

13. DOTS TO BE 0.09" (2.3 MM) TO 0.1" (1.5 MM) ON CENTER IN EACH CELL.
14. 0.24" (6.1 MM) TO 0.3" (7.6 MM) SPACE BETWEEN CELLS HORIZONTALLY.
15. 0.395" (10.0 MM) TO 0.4" (10.2 MM) SPACE BETWEEN CELLS VERTICALLY.
16. DOTS RAISED 0.025" (0.6 MM) TO 0.037" (0.9 MM) ABOVE BACKGROUND.
17. DOTS BASE DIAMETER TO BE 0.059" (1.5 MM) TO 0.063" (1.6 MM).

URINAL CLEARANCE

DISPENSER OUTLET LOCATION- PROTRUDING DISPENSER BELOW GRAB BAR

URINALS

WATER CLOSET CLEARANCE

WATER CLOSETS

WATER CLOSET STALL CLEARANCE

AMBULATORY STALL

WATER CLOSET STALL TOE CLEARANCE

LAVATORIES

LAVATORY CLEARANCE

WATER FOUNTAINS

30" x 48" CLEAR FLOOR SPACE

NOTES:

1. PROVIDE NON-ABSORBENT SURFACE MATERIAL UP TO 48" AND BASE UP TO 6" AFF UNO (TYP).
2. INSULATE EXPOSED WASTE & WATER LINES BELOW LAVATORY (TYP).
3. 40" MIRROR MOUNTING HEIGHT SHALL BE FROM FLOOR TO REFLECTIVE SURFACE.
4. TOILET TRIP LEVER SHALL BE ON APPROACH SIDE OF FIXTURE. VERIFY PRIOR TO ORDERING.
5. GRAB BARS SHALL HAVE A 250 LB. WEIGHT CAPACITY.

NOTE: ALL HANDRAILS SHALL RETURN TO POST, WALL OR FLOOR

RAILS
ARE

HEAD HEIGHT

34" MIN
38" MAX

6'-0" MIN

1/2" RADIUS MAX

1" MIN

3" MAX PROTRUSION

30" MAX

4'-0" MIN

7" MAX

8" MAX

4" MAX

1-1/2" MAX

1-1/2" MAX

BEVELED NOSING

CURVED NOSING

STAIR RISERS AND TREADS

OPEN STAIRS

4" MAX

34" MIN-38" MAX

Technical drawings illustrating the dimensions and mounting requirements for handrails and grab bars.

HANDRAILS:

- Vertical mounting: 1 1/4" MIN. (height from wall to center of rail), 1 1/2" MAX. (height from wall to top of rail).
- Horizontal mounting: 1 1/2" (height from wall to center of rail).
- Corner mounting: 1 1/4" MIN. (height from wall to center of rail), 1 1/2" MAX. (height from wall to top of rail).
- 4"-6" PERIMETER MAX. (clearance from wall to rail).

GRAB BARS:

- Vertical mounting: 1 1/4" MIN. (height from wall to center of bar), 1 1/2" MAX. (height from wall to top of bar).
- Horizontal mounting: 1 1/2" (height from wall to center of bar).
- Corner mounting: 1 1/4" MIN. (height from wall to center of bar), 1 1/2" MAX. (height from wall to top of bar).
- 12" MIN. (height from floor to center of bar).
- 1 1/2" MIN. (height from floor to bottom of bar).

FRONT APPROACH
 $X = 48"$ MIN.
 $Y = 0"$
 12" WITH BOTH CLOSER AND LATCH

HINGE APPROACH
 $X = 42"$ MIN.
 $Y = 0"$
 $Z = 22"$ MIN.
 *48" MIN. WITH BOTH CLOSER AND LATCH.
 **12" MIN WITH BOTH CLOSER AND LATCH.

LATCH APPROACH
 $X = 42"$ MIN.
 $Y = 24"$ MIN.
 48" MIN WITH BOTH CLOSER AND LATCH

PUSH SIDE DOOR CLEARANCE PLAN

FRONT APPROACH
 $X = 60"$ MIN. OR $X = 54"$ MIN.
 $Y = 36"$ MIN. OR $Y = 42"$ MIN.

LATCH APPROACH
 $X = 48"$ MIN.
 $Y = 24"$ MIN.
 *54" MIN WITH BOTH CLOSER AND LATCH

PULL SIDE DOOR CLEARANCE PLAN

FRONT APPROACH
 $X = 60"$ MIN.
 $Y = 18"$ MIN.

PULL SIDE DOOR CLEARANCE PLAN

24" MIN. EXTERIOR
 18" MIN. INTERIOR

60" MIN.

RAMP LANDING AT DOORWAY PLAN

60" MIN.

32" CLEAR

18" MIN. INTERIOR
 24" MIN. EXTERIOR

48" MIN.

VESTIBULE PLAN

60" MIN.

TWO DOORS IN SERIES

NOTES:

1. CLEAR SPACES MUST BE LEVEL TO PREVENT WHEELCHAIRS FROM ROLLING WHEN THE OCCUPANT RELEASES THE WHEEL GRIPS TO REACH FOR THE DOOR. 1/4" PER FOOT IS ALLOWED FOR DRAINAGE.
2. WHERE DOORS OPEN ONTO, BUT NOT INTO A CORRIDOR, THE REQUIRED LEVEL AREA BEYOND THE DOORS MAY BE A MINIMUM OF 48".
3. THIS DRAWING IS FOR REFERENCE. NOT ALL DETAILS MAY BE APPLICABLE TO THIS PROJECT.

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Diagram illustrating the requirements for stair handrails:

- Handrail Height:** 34" MIN to 38" MAX.
- Top Landing:** 12" width.
- Stair Tread:** 12" width (ADA 4.9.4).
- Bottom Landing:** 34" MIN to 38" MAX.
- Handrail Spacing:** PROVIDE SECOND SET OF HANDRAILS AT 24" A.F.F. WHEN CHILDREN ARE PRIMARY USERS.
- Stair Handrails:** THE LEADING 2" (51 MM) OF THE TREAD SHALL HAVE VISUAL CONTRAST OF DARK-ON-LIGHT OR LIGHT-ON-DARK FROM THE REMAINDER OF THE TREAD. (ICC/ANSI SEC. 504.5)

48" MAX.
5" MIN.

48"

30"

48"

HIGH FORWARD REACH LIMIT

(X)

(Y)

(Z)

30"

48"

NOTE:

- ALL RAMPS MUST MEET HANDRAIL AND CURB REQUIREMENTS.

WHEN DOOR SWINGS ONTO LANDING DISTANCES MUST COMPLY WITH ADA DOOR CLEARANCES

360" INTERVAL MAX VARIES
60" MIN.
360" INTERVAL MAX VARIES
60" MIN.
60" MIN.
30" MAX. RISE (TYP.)
AS REQUIRED
STRAIGHT RAMP RUN

360" MIN. CLEAR
42" MIN.
34" MIN.
30" MAX.
36" MAX.
30" MAX.
36" MAX.
4" MIN.
12" MIN.
NO BOTTOM RAIL IS REQUIRED WHEN EDGES OF RAMP EXTEND 12" MIN. FROM THE INSIDE OF THE RAILING.

PLACE BOTTOM RAIL 90° THAT A 4" DIA. SPHERE CANNOT PASS THROUGH THE RAILING UP TO 4" ABOVE RAMP.

RAMP SECTIONS

360" INTERVAL MAX VARIES (TYP.)
60" MIN.
60" MIN.
60" MIN.
AS REQUIRED
30" MAX. RISE TYP.
RAMP WITH INTERMEDIATE SWITCH-BACK PLATFORM

WHEN DOOR SWINGS ONTO LANDING DISTANCES MUST COMPLY WITH ADA DOOR CLEARANCES

360" INTERVAL MAX VARIES (TYP.)
60" MIN.
60" MIN.
60" MIN.
60" MIN. LANDING
30" MAX. RISE TYP.
INTERMEDIATE PLATFORM
INTERMEDIATE TURNING POSITION
AS REQUIRED
RAMP WITH TURNING PLATFORM

48" MIN. CLR.
36" MIN. CLR.
POLE
CURB (TYP.)
STREET (TYP.)
SIDEWALK

48" MIN. CLR.
36" MIN. CLR.
SIDEWALK

12" MIN.
34" MIN.
36" MIN.
30" MAX.

SIDEWALK DETAIL

RAMP HANDRAIL EXTENSIONS

ARCHITECTURAL SPECIFICATIONS

DIVISION 1 / GENERAL REQUIREMENTS

- 1.1 RE: CIVIL, STRUCT, MECH & ELEC FOR SPECIFICATIONS IN ADDITION TO THOSE DESCRIBED BELOW.
- 1.2 THE LOCALLY ADOPTED STATE BUILDING CODE W/ATEST AMENDMENTS, BULLETINS, AND INTERPRETATIONS AN ALL ADOPTED 4 REFERENCED SUB CODES, PUBLICATIONS, REPORTS (THE "CODE") APPLIES TO ALL CONSTRUCTION ACTIVITIES (THE "WORK") OF A NATURE AND INTENT INDICATED BY THESE CONSTRUCTION DRAWINGS, SPECIFICATIONS, ADDENDA, ETC. (THE "DOCUMENTS") AT THE STRUCTURE, BUILDING, AND/OR PROJECT/SITE (THE "WORK AREA") REFERENCED HEREIN. THE GENERAL CONTRACTOR (THE "CONTRACTOR" OR "G.C.") SHALL VERIFY ALL CODE REQUIREMENTS BEFORE COMMENCEMENT OF WORK AND BRING ANY DISCREPANCIES BETWEEN CODE REQUIREMENTS AND THE CONSTRUCTION DOCUMENTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER. ALL TRADES, I.E. MECHANICAL, ELECTRICAL, AND PLUMBING SUBCONTRACTORS OR INDEPENDENTLY CONTRACTED INDIVIDUAL TRADE CONTRACTORS (THE "CONTRACTORS"), SHALL PERFORM ALL WORK IN ACCORDANCE WITH ANY AND ALL APPLICABLE CODES CURRENTLY IN EFFECT AT THE TIME OF CONSTRUCTION. CONSTRUCTION "ELEMENTS" OR "COMPONENTS" ARE SPECIFIC PORTIONS OF THE PROJECT SCOPE OF WORK OR SITE CONDITIONS ADDRESSED BY THE DRAWING NOTATION.
- 1.3 OSHA REGULATIONS SHALL APPLY WHERE REQUIRED DURING THE COURSE OF THE WORK AS IT APPLIES TO WORKER SAFETY. CONTRACTOR SHALL DESIGNATE A "SAFETY DIRECTOR" WHO SHALL BE RESPONSIBLE FOR ALL OSHA SAFETY REQUIREMENTS. NOTHING CONTAINED IN THESE DOCUMENTS IN ANY WAY REQUIRES THE ARCHITECT, ENGINEER, OR OWNER TO BE RESPONSIBLE FOR ANY ASPECT OF SAFETY DURING CONSTRUCTION OR TO ENSURE THAT THE CONTRACTOR FOLLOWS WHATEVER SAFETY REGULATIONS MAY BE APPLICABLE.
- 1.4 ALL WORK SHALL BE IN CONFORMANCE WITH ALL FEDERAL, STATE, AND LOCAL CODES AND ACTS, MANUFACTURERS RECOMMENDATIONS AND INDUSTRY STANDARDS OF GOOD PRACTICE.
- 1.5 ALL MATERIALS SHALL BE AS SPECIFIED AND/OR DETAILED, AND STORED AND INSTALLED IN A WORKMANLIKE MANNER, IN ACCORDANCE WITH APPLICABLE CODES, MANUFACTURERS RECOMMENDATIONS, AND INDUSTRY STANDARDS OF GOOD PRACTICE (AS REQUIRED).
- 1.6 ALL CONTRACTOR SHALL MAINTAIN THE PREMISES CLEAN AND FREE OF ALL TRASH, DEBRIS AND SHALL PROTECT ALL ADJACENT WORK FROM DAMAGE, SOILING, PAINT OVER-SPRAY, ETC. ALL FIXTURES, EQUIPMENT, GLAZING, FLOORS, ETC., SHALL BE LEFT CLEAN AND READY FOR OWNERS INTENDED USE UPON COMPLETION OF THE PROJECT.
- 1.7 THE CONTRACTORS SHALL BRING ERRORS AND OMISSIONS WHICH MAY OCCUR IN CONTRACT DOCUMENTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER AND INSTRUCTIONS SHALL BE OBTAINED BEFORE PROCEEDING WITH AFFECTED WORK. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR RECTIFYING UNACCEPTABLE RESULTS OF ANY ERRORS, DISCREPANCIES, OR OMISSIONS IN THE CONTRACT DOCUMENTS WHICH CAN READILY OR REASONABLY BE DETERMINED AND FOR WHICH THE CONTRACTOR FAILED TO NOTIFY THE ARCHITECT/ENGINEER BEFORE CONSTRUCTION AND/OR FABRICATION OF SUBJECT WORK. THE GENERAL CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS WITHIN THE CONTRACT LIMITS. DEVIATIONS FROM THE CONTRACT DOCUMENTS NECESSITATED BY FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF AND REVIEWED BY THE ARCHITECT/ENGINEER AND INSTRUCTIONS SHALL BE OBTAINED BEFORE PROCEEDING WITH WORK.
- 1.8 CONTRACTOR TO COORDINATE ALL DIMENSIONS ON PREFABRICATED ITEMS WITH MANUFACTURERS INSTRUCTIONS.
- 1.9 CONTRACTOR RESPONSIBLE FOR SUPPLYING ALL RELATED ITEMS REQUIRED FOR CONSTRUCTION, UNLESS OTHER ARRANGEMENTS ARE MADE WITH OWNER. SPECIFIC ITEMS TO BE FURNISHED BY OWNER OR OTHERS ARE NOTED IN THESE DOCUMENTS.
- 1.10 CIVIL ENGINEERING AND SITE IMPROVEMENTS, GEOTECHNICAL, ENVIRONMENTAL, TELECOM, AUDIO-VISUAL, COMPUTER, AND SECURITY SYSTEMS, INTERIOR DESIGN & DOCUMENTATION PROVISIONS ARE NOT INCLUDED AS PART OF THE SCOPE OF THESE CONSTRUCTION DOCUMENTS UNLESS SPECIFICALLY NOTED HEREIN. THE GENERAL CONTRACTOR SHALL CONSULT WITH THE OWNER REGARDING THE COORDINATION OF THESE PROVISIONS WITH THE SCOPE OF WORK IDENTIFIED BY THESE DOCUMENTS AND ANY OTHER WORK REQUIRED BY THE OWNER RELATED TO THIS PROJECT AND/OR SUPPLEMENTAL OWNER PROVIDED DOCUMENTATION.
- 1.1.1 THE ARCHITECT, ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR WORK COMPLETED BY CONTRACTOR(S) THAT DEVIATES FROM ADOPTED APPLICABLE CODES, OR THE INTENT OF THESE DOCUMENTS. THE G.C. SHALL RECTIFY ALL NON-CONFORMANCE ISSUES IN ORDER TO COMPLY WITH CODE AND THE INTENT OF THESE DOCUMENTS AT NO ADDITIONAL COST TO THE OWNER, ATTAINMENT OF A CERTIFICATE OF OCCUPANCY FOR THE OWNER IS REQUIRED BUT MAY NOT REPRESENT THE ENTIRETY OF THE SCOPE OF WORK THAT IS TO BE COMPLETED BY THE G.C. FOR THIS PROJECT.
- 1.1.2 ENLARGED DRAWINGS/DETAILS SHALL TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS.
- 1.1.3 DO NOT SCALE DRAWINGS. MATERIALS, GRAPHIC CONDITIONS AND DISTANCES SHOWN SHALL BE SUPERSEDED BY WRITTEN TEXT AND DIMENSIONS.
- 1.1.4 DETAILS AND SECTIONS ON THE DRAWINGS ARE TAKEN AT SPECIFIC LOCATIONS AND ARE INTENDED TO SERVE AS A REPRESENTATION OF TYPICAL CONSTRUCTION METHODOLOGY FOR ALL SIMILAR CONDITIONS. MODIFICATIONS SHALL BE MADE BY THE CONTRACTORS TO ACCOMMODATE MINOR VARIATIONS. IF MAJOR VARIATIONS FROM TYPICAL DETAILS AND SECTIONS ARE REQUIRED, G.C. SHALL NOTIFY ARCHITECT PRIOR TO PERFORMING SUCH WORK.

- 1.1.5 CONTRACTOR TO INSURE STABILITY AND SAFETY OF STRUCTURE AT ALL TIMES DURING THE CONSTRUCTION PERIOD. CONTRACTOR SHALL NOT OCCUPY ADJACENT PROPERTIES WITHOUT FIRST OBTAINING WRITTEN PERMISSION FROM PROPERTY OWNERS AND SUBMITTING A RECORD OF THIS PERMISSION TO THE OWNER FOR REVIEW AND APPROVAL.
- 1.1.6 SPECIAL PROVISIONS FOR RADON CONTROL HAVE NOT BEEN INCLUDED IN THE DESIGN OF THIS PROJECT. CONTRACTOR TO NOTIFY OWNER IF SITE CONDITIONS WARRANT THE INCLUSION OF POSITIVE RADON CONTROL SYSTEM IN THE SCOPE OF WORK FOR THIS PROJECT.
- 1.1.7 THE GENERAL CONTRACTOR SHALL SECURE AND REMIT THE COST OF ALL REQUIRED PERMITS AND INSPECTIONS FOR THIS PROJECT AND SHALL COORDINATE ALL INSPECTIONS IN ORDER TO OBTAIN A CERTIFICATE OF OCCUPANCY PERMIT UPON COMPLETION OF THE WORK, UNLESS OTHERWISE AGREED BY THE OWNER.
- 1.1.8 CONTRACTOR IS TO PROVIDE AN ENTIRELY FINISHED PRODUCT UPON COMPLETION OF CONSTRUCTION INCLUDING ANY FINAL REPAIRS OR WORK IDENTIFIED BY PUNCHLIST ITEMS TO THE SATISFACTION OF THE OWNER AND ENGINEER/ARCHITECT.
- 1.1.9 THE GENERAL CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR MINIMUM OR AS OTHERWISE AGREED BY THE OWNER.

DIVISION 2 / SITE CONSTRUCTION

- 2.1 RE: CIVIL & STRUCTURAL FOR SPECIFICATIONS IN ADDITION TO THOSE DESCRIBED BELOW.
- 2.2 CONSULT THE CIVIL ENGINEERING DOCUMENTS CREATED FOR THIS SPECIFIC PROJECT. FOR ADDITIONAL SITE UTILITIES CONSTRUCTION INFORMATION, WHERE INFORMATION CONTAINED THEREIN DIFFERS FROM INFORMATION PROVIDED ON THESE DOCUMENTS, CONTRACTOR SHALL OBTAIN CLARIFICATION FROM THE CIVIL ENGINEER, NOTIFY THE ARCHITECT/ENGINEER, AND CONTINUE TO PERFORM THE WORK IN ACCORDANCE WITH THE MOST STRINGENT REQUIREMENTS UNLESS OTHERWISE DIRECTED.
- 2.3 GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES AND SERVICES USING 'ONE-CALL' PROTOCOLS OR OTHER METHODS AS PER LOCAL JURISDICTION. UTILITIES SHALL BE VERIFIED PRIOR TO CONSTRUCTION AND THE G.C. SHALL COORDINATE THE CONNECTION INTO, REMOVAL OF AND/OR RELOCATION OF ABOVE-GROUND OR UNDERGROUND UTILITIES WITH OWNER AND LOCAL MUNICIPAL UTILITY AUTHORITIES / PUBLIC UTILITY COMPANIES AS REQUIRED TO MEET THE INTENT OF THIS PROJECT.

DIVISION 3 / CONCRETE

- 3.1 RE: STRUCTURAL

DIVISION 4 / MASONRY

- 4.1 RE: STRUCTURAL

DIVISION 5 / METALS

- 5.1 RE: STRUCTURAL FOR SPECIFICATIONS IN ADDITION TOT THOSE DESCRIBED BELOW:
- 5.2 WHERE ALUMINUM IS ADJACENT TO STEEL, PROVIDE ADEQUATE BARRIER TO PREVENT OXIDATION OF ALUM.

DIVISION 6 / WOOD, PLASTICS, AND COMPOSITES

- 6.1 RE: STRUCTURAL FOR SPECIFICATIONS IN ADDITION TO THOSE DESCRIBED BELOW:
- 6.2 ALL MISCELLANEOUS WOOD SHALL BE DRY LUMBER (SEASONED TO A MOISTURE CONTENT OF 19% OR LESS), UNLESS PRESERVATIVE PRESSURE-TREATED. ALL WOOD PRODUCTS AND MATERIALS SHALL BE STORED, STAGED, AND INSTALLED DRY AND SHALL BE PROTECTED FROM MOISTURE TO GREATEST EXTENT PRACTICABLE. STANDING WATER SHALL BE IMMEDIATELY REMOVED FROM WOOD MATERIALS EXPOSED TO MOISTURE DURING CONSTRUCTION. PRESERVATIVE PRESSURE-TREATED LUMBER SHALL BE "ARSENIC-FREE".
- 6.3 ALL METAL AND/OR WOOD FRAMING MATERIALS SHALL BE FREE OF VISUALLY OBSERVABLE WARPING, CLIPPING, CHECKING, AND OTHER SUBSTANTIVE IMPERFECTIONS THAT ADVERSELY AFFECT STRUCTURAL PERFORMANCE OR THE PROVISION OF PLUMB AND TRUE CONNECTIONS WITH OTHER FRAMING MEMBERS.
- 6.4 ALL WOOD TRIM EXPOSED TO THE ELEMENTS, OR IN CONTACT WITH EARTH, CONCRETE, OR MASONRY, SHALL BE OF ARSENIC-FREE PRESSURE-TREATED LUMBER.
- 6.5 THE CONTRACTOR SHALL PROVIDE ADEQUATE SUPPORTS AND/OR BACKING MATERIAL IN NEW OR EXISTING WALLS FOR EQUIPMENT AND/OR ACCESSORIES ATTACHED THERETO.

DIVISION 7 / THERMAL & MOISTURE PROTECTION

- 7.1 INSTALL EXTERIOR PAINTABLE URETHANE SEALANTS AND INTERIOR PAINTABLE SILICONE CAULKING WITH BACKER ROD AND PRIMER TAPE WHERE INDICATED) AT ALL JOINTS WHERE SHOWN ON THE DRAWINGS AND ELSEWHERE AS REQUIRED (UNLESS NOTED OTHERWISE) TO PROVIDE A POSITIVE BARRIER AGAINST MOISTURE AND PASSAGE OF AIR. ELASTOMERIC SEALANTS SHALL COMPLY WITH ASTM C920 AND ASTM C1193.
- 7.2 BACKPAINT METAL FLASHINGS WITH BITUMINOUS PAINT WHERE IN CONTACT WITH CEMENTITIOUS MATERIALS OR DISSIMILAR METALS.

- 7.3 PROVIDE INSULATION AS INDICATED ON DRAWINGS AS MANUFACTURED BY OWENS CORNING. POSITION FACED INSULATION SO THAT FACING / VAPOR BARRIER FACES INWARD TOWARDS THE CONDITIONED SIDE OF THE WALL OR CEILING ASSEMBLY OR SPACE. FACED INSULATION IS TO BE INSTALLED ONLY WHERE IN SUBSTANTIAL DIRECT CONTACT WITH AN APPROVED FINISH SURFACE. IF EXPOSED, USE UNFACED INSULATION OR F5K-FACED FIRE-RATED FACINGS. INSTALL COMPLETELY IN DESIGNATED LOCATIONS WITHOUT GAPS OR VOIDS - FILL SPACES BETWEEN DOOR AND WINDOW UNITS AND ADJACENT FRAMING - FIT INSULATION INTO ALL SPACES BEHIND MECHANICAL, PLUMBING, AND ELECTRICAL SERVICES / EQUIPMENT LOCATED WITHIN THE PLANE OF INSULATION. FASTEN INSULATION TO SUBSTRATE / FRAMING MEMBERS AND OTHERWISE INSTALL ALL INSULATION IN COMPLETE ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 7.4 PROVIDE AND INSTALL VAPOR/MOISTURE RETARDER AS PER CODE, AS INDICATED ON DRAWINGS AND AS PER MANUFACTURER'S INSTRUCTIONS WITH CLASS A FLAME SPREAD AND SMOKE DEVELOPED VALUES.
- 7.5 EXTRUDED POLYSTYRENE BOARD INSULATION SHALL CONFORM TO ASTM C 578, OF TYPE IV, 1.50LB/CU.FT. DENSITY WITH A MAXIMUM FLAME SPREAD AND SMOKE DEVELOPED INDICES OF 75 AND 450 RESPECTIVELY.
- 7.6 FIBERGLASS BLANKET INSULATION SHALL CONFORM TO ASTM C 665, TYPE 1 WITH MAXIMUM FLAME SPREAD AND SMOKE DEVELOPED INDICES OF 25 AND 50 RESPECTIVELY, PASSING ASTM E 136 FOR COMBUSTION CHARACTERISTICS.
- 7.7 PROTECT ALL INSULATION MATERIALS FROM PHYSICAL DAMAGE FROM DETRIORATION BY MOISTURE, SOILING, AND OTHER SOURCES. STORE INSIDE AND IN A DRY LOCATION.
- 7.8 CONCEALED INSULATION SHALL HAVE A FLAME SPREAD INDEX OF NO MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 450 IN ACCORDANCE WITH ASTM E 84.
- 7.09 METAL GUTTER AND RAINWATER CONDUCTOR COMPONENTS SHALL BE PROVIDED AND INSTALLED AS INDICATED ON DRAWINGS, AS PER CODE AND AS PER MANUFACTURER DIRECTIONS. ALL GUTTERS SHALL BE INSTALLED SO AS TO POSITIVELY DIRECT WATER TO CONDUCTORS. INSTALL LONGEST GUTTER LENGTHS AS PRACTICABLE AND PROVIDE APPROPRIATE SEALANTS AT SEAMS. POSITION GUTTERS SO THAT ICE THAT MAY SLIDE FROM ADJACENT SLOPED ROOFING BYPASSES TOP LEADING EDGE OF GUTTER.
- 7.10 PROVIDE AND INSTALL RAINWATER CONDUCTORS PLUMB AND TRUE AND FASTEN TO SUBSTRATE AS REQUIRED FOR SECURE ATTACHMENT CONSIDERING POTENTIAL DYNAMIC THRUST CREATED BY STORMWATER FLOW AND VOLUME. ALL FASTENERS AND SUPPORT ACCESSORIES SHALL BE OF THE SAME MATERIAL AS THE CONDUCTOR AND SHALL BE PROVIDED TO ELIMINATE THE POSSIBILITY OF GALVANIC CORROSION DUE TO DISSIMILAR METALS, PROVIDE PROTECTION OF CONDUCTOR AT BOTTOM RUNOUT WHERE ADJACENT TO PAVING AS PER PLUMBING CODE PROVISIONS IN A METHOD ACCEPTABLE TO OWNER. COORDINATE LOCATION OF CONDUCTORS WITH UNDERGROUND STORMWATER PIPING SYSTEMS AS PER THE CIVIL ENGINEERING DESIGN AS APPLICABLE.
- 7.1.1 BLOWN-IN INSULATION SHALL BE MANUFACTURED BY OWENS CORNING "INSUL SAFE 3" AND INSTALLED BY A CERTIFIED CONTRACTOR 90 DAYS AFTER SUBSTANTIAL CONSTRUCTION COMPLETION. BLOWN-IN INSULATION TO COVER ENTIRE ATTIC AREA FOR A COMPLETE THERMAL BARRIER. RE: DWGS.

DIVISION 8 / DOORS AND WINDOWS

- 8.1 DOOR UNITS AND FRAMES SHALL BE PROTECTED DURING CONSTRUCTION. THE GENERAL CONTRACTOR SHALL REPAIR/REPLACE ANY DAMAGE TO SUCH MATERIALS AND PRODUCTS AT NO ADDITIONAL COST TO THE OWNER.
- 8.2 ALL DOOR HEIGHTS TO BE AS INDICATED ON DOOR SCHEDULE. DOOR HEIGHT TO BE MODIFIED BY G.C. AS REQUIRED TO ACCOMMODATE VARIOUS FLOOR FINISHES, THRESHOLDS, ROUGH OPENINGS AND MECHANICAL DESIGN UNDERCUTS.
- 8.3 CONTRACTOR SHALL CONFORM TO THE ADOPTED ENERGY CODE AND VERIFY THAT MAXIMUM WINDOW AND DOOR INFILTRATION RATES ARE NOT EXCEEDED. ALL DOORS, WINDOW, TRANSOMS, SIDELIGHTS, ETC. OPENING TO THE EXTERIOR OR TO UNCONDITIONED AREAS SHALL BE FULLY WEATHER STRIPPED, GASKETED OR OTHERWISE TREATED TO LIMIT AIR INFILTRATION.
- 8.5 GLAZING IN LOCATIONS WHICH MAY BE SUBJECT TO HUMAN IMPACT SUCH AS GLASS ENTRANCE DOORS, FIXED GLASS PANELS, DOOR LIGHTS, ETC. SHALL MEET THE REQUIREMENTS SET FORTH IN THE ADOPTED CONSTRUCTION CODE AND THE SAFETY STANDARD FOR ARCHITECTURAL GLAZING MATERIALS (16 CFR 1201). ALL GLAZED PANELS LOCATED WITHIN 1'2" OF A DOOR SHALL BE GLAZED WITH LAMINATED GLASS. SUCH PANELS ARE PROVIDED WITH A HORIZONTAL MEMBER 1-1/2" MINIMUM WIDTH LOCATED BETWEEN 24" AND 36" ABOVE THE ADJACENT WALKING SURFACE.
- 8.6 PROTECT ALL GLAZING MATERIALS ACCORDING TO MANUFACTURER'S WRITTEN SPECIFICATIONS AND AS REQUIRED TO PREVENT DAMAGE FROM CONDENSATION, TEMPERATURE CHANGES, DIRECT EXPOSURE TO SUN, OR ANY OTHER HARMFUL CONDITIONS.
- 8.7 GLAZING SHALL BE AS NOTED OR SCHEDULED ON THE DRAWINGS AND SHALL BE INSTALLED AS PER MANUFACTURER'S INSTRUCTION AND COORDINATED WITH THE ALUMINUM DOOR AND GLAZING FRAMING SYSTEMS. USE TEMPERED SAFETY GLAZING AS PER CODE. PROVIDE WINDLOAD DESIGN SUPPORT DATA FROM GLASS MANUFACTURER FOR ARCHITECT REVIEW PRIOR TO ORDERING GLAZING FOR THIS PROJECT. ALL EXTERIOR GLAZING SHALL BE INSULATED TYPE, FULLY GASKETED.

- 8.8 ALL EXTERIOR DOOR HARDWARE TO COMPLY WITH AMERICANS WITH DISABILITIES ACT (ADA) "ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (ADAAG)" AND NFPA 101.
- 8.9 REFER TO DRAWINGS FOR DOOR TYPES, SIZES, FRAME DETAILS, AND HARDWARE SET DESIGNATIONS.
- 8.10 ALL DOORS SHALL BE STORED IN A THERMALLY CONTROLLED ENVIRONMENT ON SITE UNTIL INSTALLED. STORE DOORS UPRIGHT WITH HEADS UP AND BLOCKING BETWEEN DOORS TO PREVENT DAMAGE OR WARPING.
- 8.1.1 ALL LOCKS AND LOCKSETS SHALL BE COORDINATED WITH THIRD PARTY SECURITY CONTRACTOR AND/OR OWNER. VERIFY KEY QUANTITIES AND COPIES NEEDED AND ADHERE TO OWNERS SECURITY POLICY FOR DOOR LOCKING ACCESSORIES.
- 8.12 ALL ALUMINUM STOREFRONT DOORS SHALL BE MANUFACTURED BY KAWNEER OR APPROVED EQUAL.
- 8.13 INTERIOR AND EXTERIOR STL DOORS SHALL BE MANUFACTURED BY STEELCRAFT OR APPROVED.

DIVISION 9 / FINISHES AND FINISH TREATMENTS

- 9.1 PRIOR TO PAINT APPLICATION, CLEAN WALL AND ENSURE ALL SURFACES ARE SOUND. LIGHTLY SAND AND PREPARE SURFACES AS NECESSARY.
- 9.2 APPLICATION OF PAINT OR OTHER COATING SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S DIRECTIONS. READY-MIXED PAINT SHALL NOT BE THINNED, EXCEPT AS PERMITTED IN THE APPLICATION INSTRUCTIONS.
- 9.3 ALL SURFACE TO BE FINISHED SHALL BE CLEAN AND FREE OF FOREIGN MATERIALS (DIRT, GREASE, ASPHALT, RUST, ETC.). APPLICATION SHALL BE IN A WORKMANLIKE MANNER PROVIDING A SMOOTH SURFACE. APPLICATION RATE SHALL BE THAT RECOMMENDED BY THE MANUFACTURER. APPLICATION MAY BE BY BRUSH OR ROLLER OR BY SPRAY IF PAINT IS FORMULATED FOR SPRAY APPLICATION. EXPOSED STEEL TO BE FINISHED AS INDICATED ON DRAWINGS.
- 9.4 SOLVENT-BASED COATINGS (IF APPLICABLE) - MANUFACTURER TO BE SELECTED BY OWNER - USE VOC-COMPLIANT MATERIALS THAT CONFORM TO THE LAWS IN THE JURISDICTION WHERE THE PROJECT IS LOCATED - CONTRACTOR TO PROVIDE AND INSTALL AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS.
- 9.5 GENERAL PAINT USAGE PER SUBSTRATE: DOORS: EXTERIOR FACES OF HOLLOW METAL FRAMES AND DOORS: 2 COATS SPRAY-APPLIED LOW VOC SOLVENT-BASED SEMI-GLOSS ENAMEL TOPCOAT ON FACTORY-PRIMED COATING. INTERIOR FACES OF HOLLOW METAL FRAMES AND DOORS: 2 COATS SPRAY-APPLIED LATEX SEMI-GLOSS ENAMEL TOPCOAT ON FACTORY-PRIMED COATING. LATEX MATERIAL: USE "SHERWIN-WILLIAMS" "SUPERPAINT" (OR APPROVED EQUAL) - G.C. TO PROVIDE AND INSTALL AS PER MANUFACTURERS INSTALLATION INSTRUCTIONS. STRUCTURAL STEEL: ONE COAT OF SHOP APPLIED APPROVED PRIME PAINT.
- 9.6 FLOOR COVERING MATERIALS TO BE TESTED BY AN APPROVED AGENCY PER NFPA 253. MATERIAL TO BE PROVIDED WILL TAG TO IDENTIFY MANUFACTURER & FLOOR COVERING CLASSIFICATION AND MUST COMPLY WITH ALL STANDARDS.
- 9.7 CEILING AND WALL FINISHES TO BE CLASS 'C' IN ACCORDANCE WITH ASTM E 84, AT MINIMUM.
- 9.8 PROVIDE GYPSUM WALL BOARD AS INDICATED ON DRAWINGS AS MANUFACTURED BY AMERICAN GYPSUM CO. (OR APPROVED EQUAL) COMPLYING WITH ASTM C 36/C 36M OR ASTM 1396/C 1396M, AS APPLICABLE TO TYPE OF GYPSUM BOARD INDICATED AND WHICHEVER IS MORE STRINGENT ALONGS WITH JOINT COMPOUND PER MANUFACTURERS RECOMMENDATIONS. FOR TILE BACKING AREAS, PROVIDE GLASS-MAT, WATER RESISTANT BACKING BOARD COMPLYING WITH ASTM C 1178/C 1178M WITH JOINT COMPOUND PER MANUFACTURERS RECOMMENDATIONS.
- 9.9 STORE GYPSUM WALL BOARD PANELS IN THERMALLY CONTROLLED ENVIRONMENT, INDOORS, AND AWAY FROM DAMP AREAS UNTIL READY FOR USE. ALL GYPSUM WALL BOARD PANELS SHALL BE DRY AND FREE OF MOISTURE OR CONDENSATION FROM STORAGE PRIOR TO INSTALLATION.
- 9.10 ALL JOINTS IN GYPSUM WALL BOARD PANELS SHALL BE JOINT TAPED WITH JOINT COMPOUND PER MANUFACTURER'S RECOMMENDATIONS.
- 9.1.1 ALL FINISHES SPECIFIED SHALL BE INSTALLED AND/OR APPLIED PER MANUFACTURER'S SPECIFICATIONS. PROVIDE ANY AND ALL RELATED ACCESSORIES OR MATERIALS AS NEEDED FOR PROPER AND COMPLETE INSTALLATION.
- 9.1.2 FRP WALL COVERINGS SHALL BE INSTALLED AS SHOWN ON DRAWINGS. APPLY WITH MANUFACTURER'S RECOMMENDED ADHESIVE ONLY. NO MECHANICAL FASTENERS, SCREWS, OR HEADS SHALL BE VISIBLE ON THE SURFACE.

DIVISION 10 / SPECIALTIES

- 10.1 TOILET ROOM ACCESSORIES SHOWN ARE BASIS OF DESIGN AS MANUFACTURED BY BOBRICK. (OR APPROVED EQUAL). ALL FIXTURES AND ACCESSORIES SHALL BE PROVIDED AND INSTALLED BY G.C. UNLESS NOTED OTHERWISE. ACCESSORIES TO BE PROVIDED BY OWNER SHALL BE INSTALLED BY G.C. IN ACCORDANCE WITH 2017 ICC/ANSI A117.1 AND 2020 IBC.
- 10.2 PROVIDE AND INSTALL WHITE, ANTIMICROBIAL, MOLDED VINYL UNDERLAVATORY GUARDS AS MANUFACTURED BY BROCAR PRODUCTS, INC. (OR APPROVED EQUAL). GUARDS SHALL BE INSTALLED ON DRAIN PIPING ASSEMBLIES FOR BATHROOM LAVATORIES AS INDICATED ON DRAWINGS. PROVIDE COMPONENTS AS REQUIRED WITH FLIP TOPS AT VALVES TO ALLOW SERVICE ACCESS WITHOUT REMOVING COVERINGS.
- 10.3 PROVIDE FIRE EXTINGUISHERS DURING CONSTRUCTION AND AS OTHERWISE REQUIRED BY CODE FOR PERMANENT INSTALLATION AFTER CONSTRUCTION IS COMPLETE AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL FIRE OFFICIAL.

- 10.5 PROVIDE COLOR CHARTS AND SAMPLES FOR ACRYLIC SHEET ADA TACTILE SIGNAGE A INDICATED ON THE DRAWINGS. ALL SIGNS SHALL BE TEXT, SYMBOL, AND BRAILLE TYPE OBTAINED FROM A SINGLE MANUFACTURER AND MEET THE MINIMUM REQUIREMENTS OF 2017 ICC/ANSI A117.1 AND 2020 IBC. COMPLY WITH MANUFACTURER'S SPECIFICATIONS FOR INSTALLATION AND MOUNTING.

DIVISION 11 / EQUIPMENT

- 11.1 NO SPECIALIZED EQUIPMENT IS PROPOSED UNDER THIS CONTRACT. COORDINATE WITH OWNER OR THIRD PARTY CONTRACTORS AND RELATED N.I.C. EQUIPMENT FOR ANY SCHEDULING OR CONTRACTIBILITY CONCERNS AS NEEDED.

DIVISION 12 / FURNISHINGS / CASEWORK

- 12.1 CASEWORK SHALL BE PROVIDED IN UNIT DIMENSIONS AND PRODUCT SIZES AND MOUNTED AT HEIGHTS AS INDICATED ON THE DRAWINGS.
- 12.2 SUBMIT PRODUCT DATA FOR CABINETS, PLASTIC LAMINATE COUNTERTOPS, AND CABINET HARDWARE AS APPLICABLE. SUBMIT SHOP DRAWINGS FOR CABINETS AND COUNTERTOPS INCLUDING PLANS, ELEVATIONS, DETAILS, AND ATTACHMENTS TO OTHER WORK. SHOW MATERIALS, FINISHES, FILLER PANELS, HARDWARE, EDGE AND BACKSPLASH PROFILES, AND METHODS OF COUNTERTOP ATTACHMENT. ALSO INCLUDE COLOR SAMPLES FOR SELECTION BY OWNER AND ARCHITECT INCLUDING SELECTIONS OF UNITS SHOWING FULL RANGE OF COLORS, TEXTURES, AND PATTERNS AVAILABLE FOR EACH TYPE OF MATERIAL EXPOSED TO VIEW.
- 12.3 CASEWORK SHALL NOT BE DELIVERED, STORED, OR INSTALLED ON SITE UNTIL BUILDING IS ENCLOSED., WET- WORK IS COMPLETE, AND HVAC SYSTEM IS OPERATIONAL AND WILL MAINTAIN TEMPERATURE AND RELATIVE HUMIDITY FOR THE REMAINDER OF THE CONSTRUCTION PERIOD.
- 12.4 FIELD VERIFY ALL NEW CONSTRUCTION FINISH CONDITIONS PRIOR TO CASEWORK INSTALLATION. NOTIFY ARCHITECT OF ANY CONCERNS REGARDING INCLUDING SELECTIONS OF UNITS SHOWING FULL RANGE OF COLORS, TEXTURES, AND PATTERNS AVAILABLE FOR EACH TYPE OF MATERIAL EXPOSED TO VIEW.
- 12.5 EXPOSED MATERIALS SHALL BE OAK OF COMPATIBLE COLOR AND GRAIN. DO NOT USE TWO ADJACENT SURFACES THAT ARE NOTICEABLY DISSIMILAR IN COLOR, GRAIN, FIGURE, OR NATURAL CHARACTER MARKINGS. STAIN SELECTION BY OWNER AND ARCHITECT FROM MANUFACTURERS FULL RANGE.
- 12.6 SEMI-EXPOSED MATERIALS SHALL BE PLYWOOD UNLESS NOTED OTHERWISE WITH GRACE C FACES AND NOT LESS THAN GRADE 3 BACKS OF SAME SPECIES AS FACES. FACE VENEERS OF SAME SPECIES AS EXPOSED SURFACES OR STAINED TO BE COMPATIBLE WITH EXPOSED SURFACES.
- 12.7 CONCEALED MATERIALS SHALL BE SOLID WOOD OR PLYWOOD, OF ANY HARDWOOD OR SOFTWOOD SPECIES WITH NO DEFECTS, AFFECTING STRENGTH OR UTILITY; PARTICLEBOARD, MDF, OR HARDBOARD.
- 12.8 HINGES SHALL BE CONCEALED EUROPEAN STYLE CLOSING HINGES. CASEWORK PULLS SHALL BE SELECTED BY OWNER AND ARCHITECT. PROVIDE PRODUCT DATA SUBMITTALS FOR FULL RANGE OF MANUFACTURERS PRODUCT LINE. DRAWER GUIDES SHALL BE EPOXY COATED METAL, SELF CLOSING, WITH BALL BEARING ROLLERS.

DIVISION 22 / PLUMBING

RE: PLUMBING

DIVISION 23 / HVAC - MECHANICAL

RE: MECHANICAL

DIVISION 26 / ELECTRICAL

RE: ELECTRICAL

DATE
11-10-25

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1.1 BUILDING CODES & STANDARDS

- ## 2. EARTHWORK & FOUNDATIONS
- 2.1 DESIGN DATA
- A. FOUNDATION DESIGN IS BASED UPON IBC TABLE 1806.2. AN ASSUMED ALLOWABLE BEARING CAPACITY OF 1,500 PSF.
 - B. ALL EXTERIOR FOUNDATIONS SHALL BEAR A MINIMUM OF 4'-0" BELOW GRADE.
 - C. BUILDING SPREAD FOOTINGS SHALL BEAR ON UNDISTURBED SOILS ON PROPERLY PLACED & COMPACTED STRUCTURAL FILL WITH AN ASSUMED ALLOWABLE BEARING PRESSURE OF 1,500 PSF

2.1 DESIGN DATA

- INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER OF RECORD PRIOR TO ANY PLACEMENT OF CONCRETE. IF BEARING AREAS ARE NOT SUITABLE, AS DETERMINED BY THE GEOTECHNICAL ENGINEER, THE CONTRACTOR MAY BE REQUESTED TO CARRY THE EXCAVATION DEEPER TO MORE SUITABLE BEARING MATERIAL. SUCH ADDITIONAL EXCAVATION WILL BE PAID FOR BY A LUMP SUM OR UNIT PRICE BASIS.
- B. DO NOT PLACE FOOTINGS OR SLABS AGAINST SUBGRADE CONTAINING FREE WATER, FROST OR ICE.

- ### 3. CONCRETE
- 3.1 FORMWORK
- A. STANDARDS
1. AMERICAN CONCRETE INSTITUTE (ACI) - GUIDE TO FORMWORK FOR CONCRETE, ACI 347-04
 2. ACI - FORMWORK FOR CONCRETE SP-4, FIFTH EDITION
- B. FORMWORK MAY BE OMITTED FOR FOUNDATIONS PROVIDED EARTH IS FIRM AND STABLE AND CONCRETE SURFACES WILL NOT BE EXPOSED TO PUBLIC VIEW. EXCAVATIONS SHALL BE CUT NEAT AND ACCURATE TO SIZE. LOOSE AND UNSTABLE MATERIALS SHALL BE COMPACTED OR REMOVED. PROVIDE TWO (2) INCHES ADDITIONAL CONCRETE COVER AT SIDES FOR EARTH FORM WHEN USED IN LIEU OF TEMPORARY FORMWORK.
- C. INSULATED CONCRETE FORMWORK (ICF) SHALL BE MANUFACTURED BY THE NUDURA CORPORATION OR APPROVED EQUAL. INSTALL ICF PER THE MANUFACTURER'S REQUIREMENTS AND SPECIFICATIONS.

3.1 FORMWORK

- | <u>BAR SIZE</u> | <u>TOP BARS</u> | <u>OTHER BARS</u> | <u>COMPRESSION SPLICES (I)</u> |
|-----------------|-----------------|-------------------|--------------------------------|
| #3 | 21 | 16 | 12 |
| #4 | 28 | 21 | 15 |
| #5 | 35 | 27 | 19 |
| #6 | 46 | 35 | 23 |
| #7 | 62 | 48 | 26 |
| #8 | 82 | 63 | 30 |
| #9 | 90 | 104 | 34 |
| #10 | 131 | 101 | 38 |
| #11 | 162 | 125 | 42 |

- 3.3 CAST - IN - PLACE CONCRETE
- A. STANDARDS
1. ACI 301-16 - SPECIFICATIONS FOR STRUCTURAL CONCRETE.
 2. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE. ACI 318-08 * COMMENTARY, ACI 318R-08.
 3. RECOMMENDED PRACTICE FOR CONCRETE FLOOR & SLAB CONSTRUCTION, ACI 302.2-06.
- B. MATERIALS
1. PRIOR TO THE PLACEMENT OF ANY CONCRETE, CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGN PERFORMED BY A QUALIFIED TESTING LABORATORY FOR SEKS REVIEW & APPROVAL. NO CALCIUM CHLORIDE OR ADJUTANTS CONTAINING CHLORIDES SHALL BE USED IN ANY CONCRETE. MIX MATERIALS SHALL COMPLY WITH THE FOLLOWING:
 - a. PORTLAND CEMENT.....ASTM C 150
 - b. FLY ASH.....ASTM C618 CLASS C OR D
 - c. SILICA FUME.....ASTM C 1245
 - d. NORMAL WEIGHT AGGREGATE ASTM C33 CLASS 2
 - e. WATER.....ASTM A 44 POTAB
 - f. AIR-ENTERING.....ASTM A 44 C20
 - g. WATER-REDUCING.....ASTM C494 type 2

3. COARSE AGGREGATE SIZE, 1 1/2 INCHES (MAX)
5. FINE AGGREGATE - FREE OF ANY MATERIALS THAT NEGATIVELY REACT TO THE ALKALI CONTENT IN CEMENT
6. SLUMP LIMIT, .4 INCHES (+/- 1 INCH)
7. AIR CONTENT
 - EXPOSED TO WEATHER.....4% TO 6%
 - NOT EXPOSED TO WEATHER.....6% (+/- 1 1/2%)
 - TROWELED FINISHED SLABS.....3% MAX
3. CONCRETE SURFACES SHALL BE CURED A MINIMUM OF SEVEN (7) DAYS PER THE USE OF THE FOLLOWING:
 - a. ABSORPTIVE COVER.....ASTM M 182 CLASS 2
 - b. MOISTURE-RETAINING COVER.....ASTM C 171
 - c. MEMBRANE-FORMING CURING COMPOUND.....ASTM C309 TYPE 1 CLASS B
 - d. MEMBRANE-FORMING CURING/SEALING COMPOUND.....ASTM C 315 TYPE 1 CLASS A

- EDGES OF CONCRETE 3/4 INCH.
5. ALL INTERIOR SLABS-ON-GRADE SHALL BE PLACED OVER A 10 MIL (MIN) VAPOR RETARDER. ALL EDGES OF THE VAPOR RETARDER SHALL BE LAPPED A MINIMUM OF 6 INCHES & TAPED TO PREVENT ANY KNOT PASSAGE OF MOISTURE.
6. BEGIN CURING PROCEDURES IMMEDIATELY AFTER COMPLETING PLACEMENT. CONCRETE SHALL BE PROTECTED FROM PREMATURE DRYING, EXCESSIVELY HOT OR COLD TEMPERATURES & MECHANICAL INJURY. METHODS OF CURING SHALL BE AS FOLLOWS:
- a. MATS, PADS & SLABS SHALL BE COVERED WITH "WATERPROOF" SHEETING FOR AT LEAST SEVEN (7) ACCEPTABLE DAYS. A DAY ON WHICH THE "CURING" TEMPERATURE DROPS BELOW 50° IS NOT CONSIDERED TO BE AN ACCEPTABLE DAY. THE "CURING TEMPERATURE" IS CONSIDERED TO BE THE TEMPERATURE OF AIR IMMEDIATELY ADJACENT TO THE CONCRETE.
- b. PROVIDE A CONTINUOUS, UNIFORM MEMBRANE BY SPRAY APPLYING TWO (2) COATS OF A CURING COMPOUND TO ALL FORMED SURFACES. APPLY FIRST COAT IMMEDIATELY AFTER STRIPPING FORMS AFTER ACCEPTANCE OF THE CONCRETE FINISH. APPLY THE SECOND AFTER THE FIRST APPLICATION HAS SET (+1-3 DAYS).
7. ALUMINUM MATERIALS ARE NOT PERMITTED TO BE EMBEDDED IN CONCRETE.
8. DEPOSIT CONCRETE IN HORIZONTAL LAYERS OF DEPTH NOT TO EXCEED FORMWORK DESIGN PRESSURES & IN A MANNER TO AVOID INCLINED CONSTRUCTION.
9. CONSOLIDATE PLACED CONCRETE WITH MECHANICAL VIBRATING EQUIPMENT ACCORDING TO ACI 301.
10. DO NOT USE VIBRATORS TO TRANSPORT CONCRETE INTO FORMS. INSERT AND WITHDRAW VIBRATORS VERTICALLY AT UNIFORMLY SPACED LOCATIONS TO PERPENDICULARLY PENETRATE PLACED LAYER AND AT LEAST 6 INCHES INTO PRECEDING LAYER. DO NOT INSERT VIBRATORS INTO LOWER LAYERS OF CONCRETE THAT HAVE BEGUN TO LOSE PLASTICITY. AT EACH INSERTION, LIMIT DURATION OF VIBRATION TO THE TIME NECESSARY TO CONSOLIDATE CONCRETE AND TO ACHIEVE EMBEDMENT OF REINFORCEMENT AND OTHER EMBEDDED ITEMS WITHOUT CAUSING MIXTURE TO SEGREGATE.
- ## 4. MASONRY
- 4.1 STANDARDS
- a. BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES, ACI 530-08.
- b. STANDARDS SPECIFICATION FOR MASONRY JOINT REINFORCEMENT, ASTM A95 I-02.
- 4.2 MATERIALS
- a. LOAD-BEARING CONCRETE MASONRY UNITS (CMU).....ASTM C90 TYPE I GRADE N, NET AREA COMPRESSIVE STRENGTH.....2,000 PSI

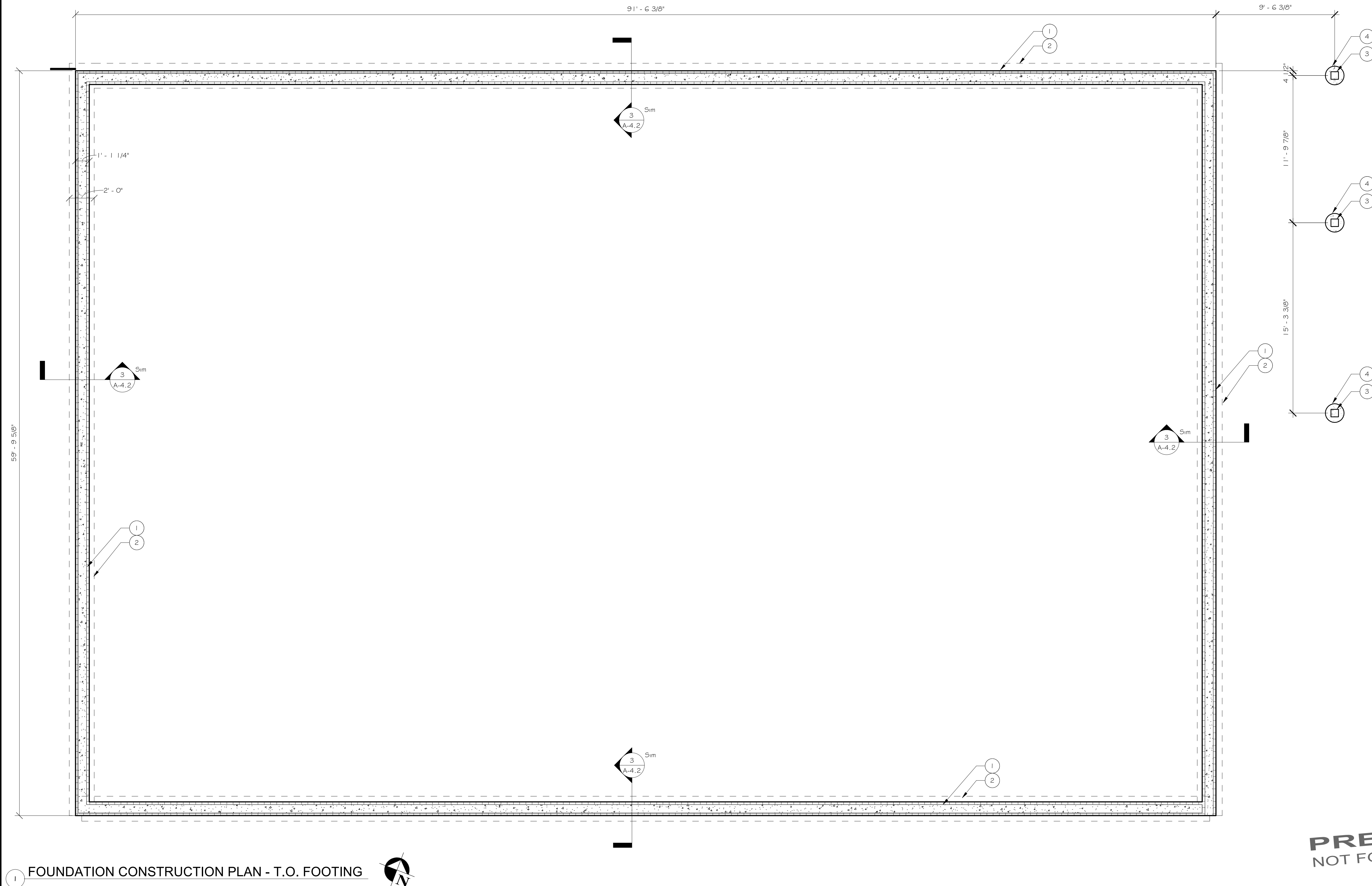
- B. ALL LOAD BEARING CMU WALLS REQUIRE INSPECTION, INSPECTION CONTROL SHALL BE ESTABLISHED TO ASSURE THAT THE MASONRY MATERIALS & CONSTRUCTION PRACTICES COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- C. ALL CMU WALLS ARE TO BE LAID IN RUNNING BOND. ALIGN ALL CELLS VERTICALLY TO MAINTAIN A CLEAR, UNOBSTRUCTED SYSTEM OF FLUES.
- D. WHEN PLACING CMU, FULLY MORTAR FACE SHELLS OF BED HEAD JOINTS, EXCEPT AT FIRST COURSE AND TOP OF FOUNDATION WALL OR EXISTING, WHICH SHALL BE FULLY BEDDED IN MORTAR AT LEAST 1/4 INCH THICK BUT NOT MORE THAN 3/4 INCH THICK. TOOL ALL JOINTS, INSIDE & OUTSIDE, TO A CONCAVE, DEEP SMOOTH SURFACE.
- E. ALL CMU WALLS SHALL HAVE GALVANIZED, STANDARDS WEIGHT (MINIMUM) TRUSS TYPE REINFORCEMENT SPACED VERTICALLY AT 16" O.C. MAXIMUM. PROVIDE CORNER & TEE SECTIONS OF REINFORCEMENT AT ALL WALL INTERSECTION LAP ALL JOINT REINFORCEMENT 8 INCHES MINIMUM.
- F. ALL WALLS SHALL BE REINFORCED AS SHOWN ON THE DRAWINGS FOR THE WALL. ALL REINFORCING BARS AT LAP SPICES SHALL HAVE A MINIMUM LAP EQUAL TO 40 TIMES THE BAR DIAMETER. AVOID LAP SPICES AT POINTS OF MAXIMUM STRESS. GROUT ALL VERTICALLY REINFORCED CELLS SOLID BY PLACING GROUT IN LIFTS NOT EXCEEDING FIVE (5) FEET HIGH. REINFORCING SHALL BE LOCATED IN CENTER OF CELLS UNLESS NOTED OTHERWISE ON DRAWINGS. POSITION & HOLD REINFORCING IN PLACE BY USE OF PREFABRICATED STEEL WIRE BAR POSITIONERS. IMMEDIATELY GROUT WHEN PLACED BY USING A MECHANICAL VIBRATOR. RECONSOLIDATE BY MECHANICAL VIBRATION AFTER INITIAL WATER LOSS & SETTLEMENT HAS OCCURRED.
- G. LINTELS BEARING ON CMU SHALL HAVE A MINIMUM BEARING LENGTH OF (8) INCHES, UNLESS OTHERWISE NOTED. A MINIMUM OF TWO (2) MASONRY COURSES, 24 INCHES WIDE SHALL BE FULLY GROUTED FOR LINTEL BEARING.
- H. ALL BONDED SOLIDS INDICATED ON DRAWINGS SHALL BE GROUTED SOLID.
- I. FOR MASONRY OPENINGS EQUAL TO & GREATER THAN TWO (2) FEET IN EITHER DIRECTION, PROVIDE TWO (2) #5 BARS, FULLY GROUTED ON ALL SIDES OF THE OPENING. BARS SHALL EXTEND A MINIMUM OF TWO (2) FEET BEYOND EDGE OF OPENING. MECHANICAL OPENINGS THROUGH CMU WALL FOR EQUIPMENT, PIPES, ETC. ARE TO BE PROVIDED WITH STEEL PIPE SLEEVES OR LINTELS, WHICH ARE PRE-INSTALL IN THE CMU WALLS.
- J. PROVIDE ADJUSTABLE MASONRY-VENEER ANCHORS THAT WILL BE VERTICAL, ADJUSTABLE BUT RESIST TENSION & COMPRESSION FORCES PERPENDICULAR TO THE PLANE OF THE WALL, FOR ATTACHMENT OVER SHEATHING TO WOOD OR METAL STUDS.
- K. FOR CMU WALL ANCHORS TO STRUCTURAL STEEL MEMBER PROVIDE A HOMOANIN & BARNARD 351, 3/2 WIRE ANCHORS AT A MAXIMUM OF 32 INCHES O.C.
- L. ALL EXPOSED MASONRY SHALL BE THOROUGHLY CLEANED LEFT FREE OF MORTAR SPOTS & DROPPINGS. MASONRY WORK SHALL BE PROTECTED FROM DAMAGE DURING SUBSEQUENT CONSTRUCTION. REPAIRS TO MASONRY ARE NECESSARY TO REPAIR DAMAGED WALLS SHALL BE BORNE BY THE CONTRACTOR & SHALL BE DONE TO THE SATISFACTION OF THE SER.

6.1 CODES

- 1 8" CONC. ICF FOUNDATION WALL WITH #4 BAR VERTICAL @48" O.C. AND #4 BAR HORIZONTAL @24" O.C.
- 2 CONCRETE FOOTING 12" DEEP BY 24" WIDE WITH (3) #4 BAR CONTINUOUS
- 3 8 X 8 P.T. POST
- 4 18" SONOTUBE 4'-0" DEEP MIN.

1. ALL DIMENSIONS ARE TO FACE OF ICF FOUNDATION WALL.
2. BOTTOM OF FOOTING SHALL BE A MINIMUM OF 4'-0" BELOW FINISHED GRADE ELEVATION.
3. FOUNDATIONS SHALL NOT BE CONSTRUCTED OVER EXISTING FILL MATERIALS UNLESS SPECIFICALLY APPROVED BY A GEOTECHNICAL ENGINEER.
4. ALL FOOTINGS SHALL BEAR ON PROPERLY PLACED STRUCTURAL FILL OR ON FIRM NATURALLY OCCURRING SOIL WITH A MINIMUM BEARING CAPACITY OF 1,500 PSF.
5. FINISHED FIRST FLOOR ELEVATION SHALL BE 100'-0".
6. TYPICAL 8" CONCRETE ICF WALL REINFORCEMENT SHALL BE #4 BARS AT 48" O.C. VERTICAL AND #4 BARS AT 24" O.C. HORIZONTAL. PROVIDE STIRRUPS OF #3 REINFORCEMENT BARS AS INDICATED ON DRAWINGS. PROVIDE LINTEL REINFORCEMENT AS SPECIFIED.

SIMPSON STRONG TIE SCHEDULE			
MODEL #	USE	MEMBER SIZE(S)	REMARKS
LU28	FACE MOUNT JOIST HANGER	2X8, 2X10	
LU210	FACE MOUNT JOIST HANGER	2X10, 2X12, 2X14	
LB28	TOP MOUNT JOIST HANGER	2X8	
LB210A2	TOP MOUNT JOIST HANGER	2X10	
LB212A2	TOP MOUNT JOIST HANGER	2X12	
IJ51.81/11.88	FACE MOUNT JOIST HANGER	1 3/4 x 11 7/8 I-JOIST	
IT51.81/11.88	TOP MOUNT JOIST HANGER	1 3/4 x 11 7/8 I-JOIST	
UB51.56/11.88	FACE MOUNT BEAM/HEADER HANGER	(2) 1 3/4 x 11 7/8 BEAM/HEADER	UP TP 1430 (BS)
IT51.56/11.88	TOP MOUNT BEAM/HEADER HANGER	(2) 1 3/4 x 11 7/8 BEAM/HEADER	UP TP 1735 (BS)
TB27	JOIST CROSS BRACING	2X8-2X12 AND 9 1/2-12 I-JOISTS	
ABU44	POST BASE	4X4	
ABU66	POST BASE	6X6	
ABU82	POST BASE	8X8	
LC4.5-3.5	COLUMN CAP	(3) PLY 2X10, 2X12 TO 3 1/2 COLUMN	
LC3.5-3.5	COLUMN CAP	(3) PLY 1 3/4XLL LVL TO 3 1/2 COLUMN	
LC4.5-25-3.5	COLUMN CAP	(3) PLY 1 3/4XLL LVL TO 3 1/2 COLUMN	
H2.5A	RAFFER/ RAFTER BEARING STRAP	TRUSS AND RAFTER	
ST18	RAFTER RIDGE STRAP	RAFTER	
PL40F	ADHESIVE WGB TO WOOD	STUD TO JOIST, LEDGER TO WALL	
PL100	ADHESIVE GWB TO WOOD	GWB TO STUD	
PL300	ADHESIVE FOAMBOARD TO WOOD, GWB	FOAMBOARD TO SHEATHING	



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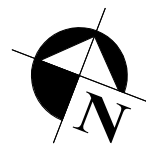
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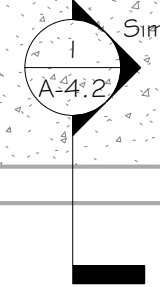
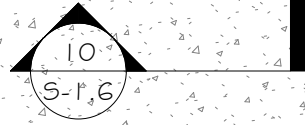
PROJECT ELMIRA CIVIL WAR VISITOR CENTER 637-639 WINSOR AVE ELMIRA, NY 14901	TITLE OF DRAWING FOUNDATION PLAN
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DRAWING SCALE
AS NOTED
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10.28.2025
PROJECT NO.
25-086
DRAWING NO.
S-1.1



60' - 1 1/8"

91' - 6 7/8"



40' - 5 3/4"

9' - 6 3/8"

11' - 9 7/8"

15' - 3 3/8"

17' - 1 3/4"

10' - 0"

13' - 4"

11' - 0 1/8"

4' - 6"

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ELMIRA, NY 14901

TITLE OF DRAWING
FIRST FLOOR STRUCTURAL PLAN

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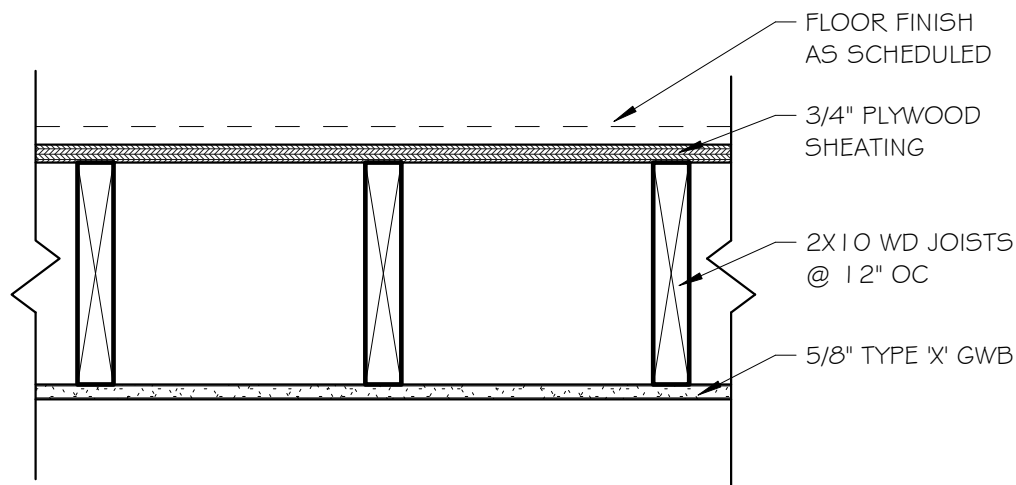
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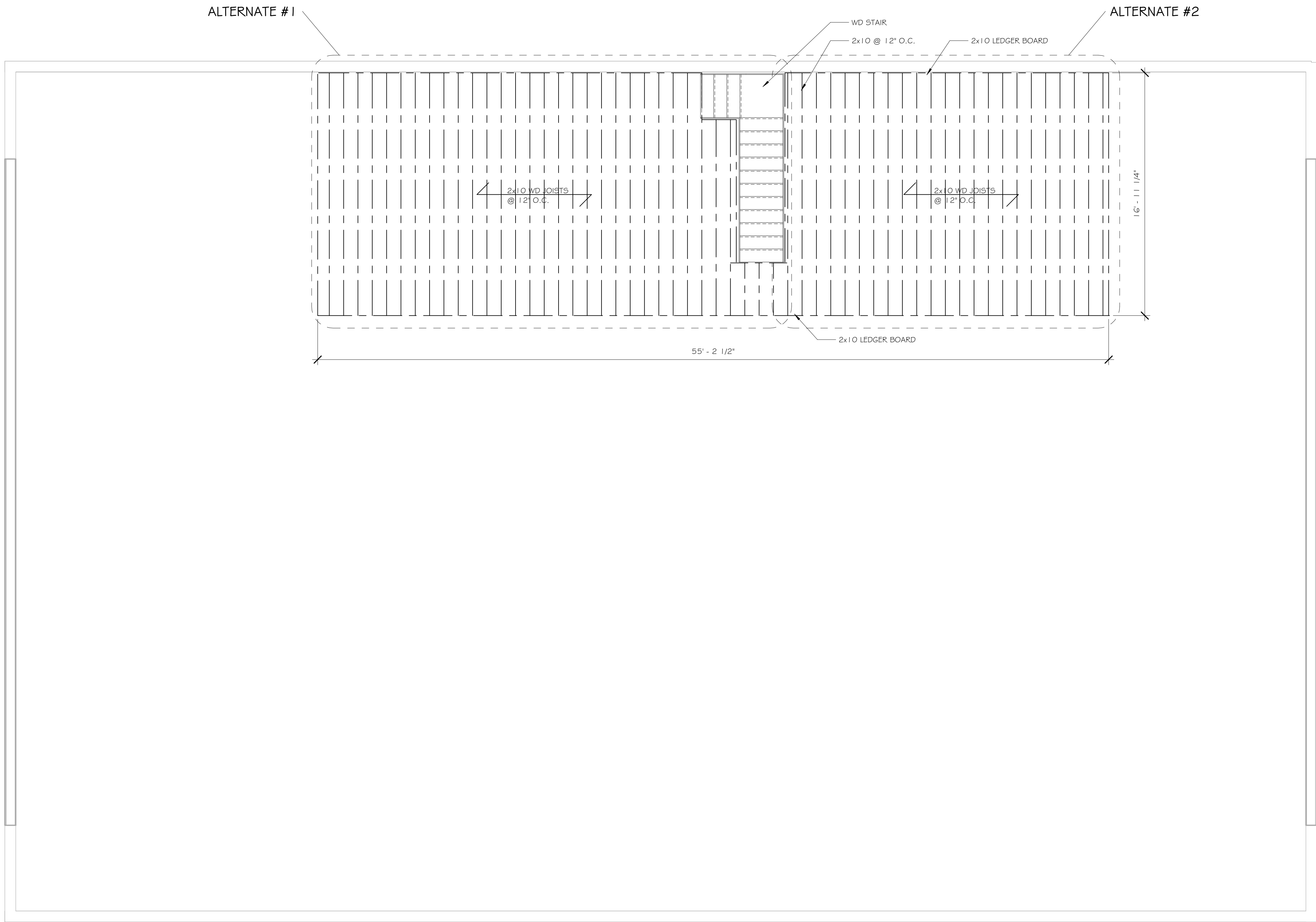
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2 TYP DETAIL @ LOFT FLOOR
1 1/2" = 1'-0"



1 LOFT FRAMING PLAN
1/4" = 1'-0"

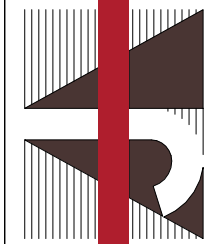


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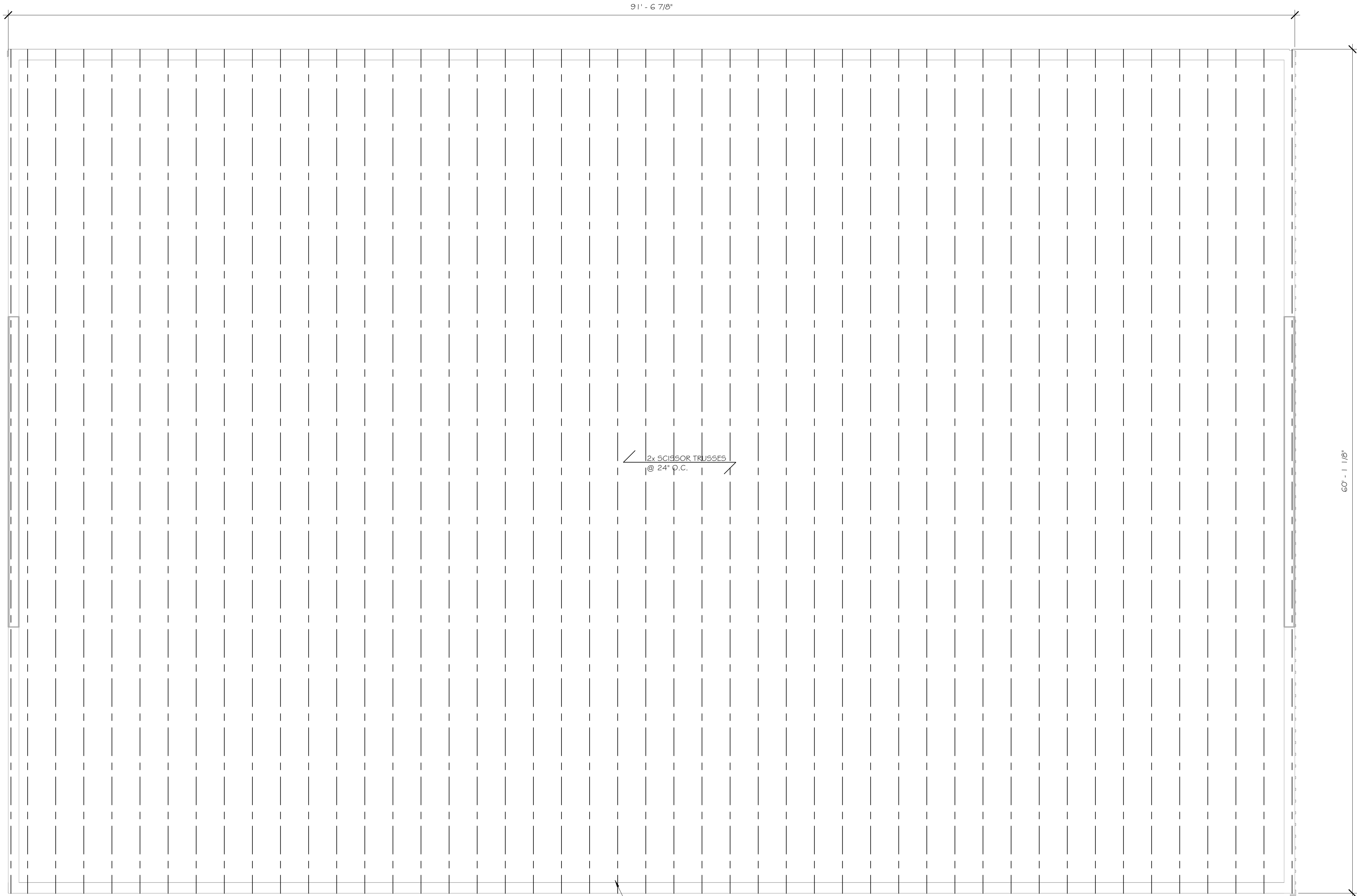
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S-1.3

1 ROOF FRAMING PLAN

1/4" = 1'-0"



91'-6 7/8"

60'-1 1/8"

2x SCISSOR TRUSSES
@ 24' O.C.

WD SCISSOR TRUSSES @ 24' O.C.

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ELMIRA, NY 14901

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ROOF FRAMING PLANS

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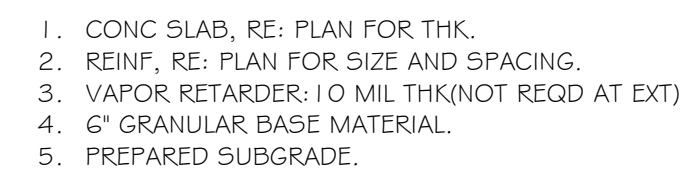
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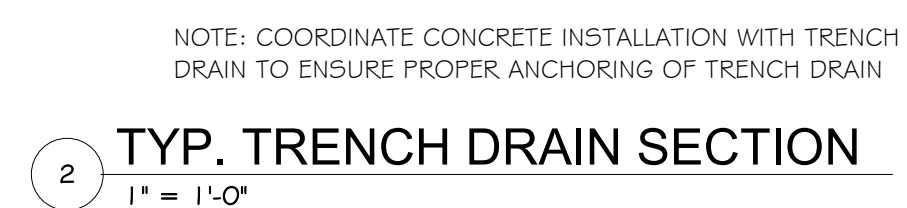
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10 TYP. SLAB CONSTRUCTION
1" = 1'-0"



5 TYP. CONSTRUCTION JOINT (CJ)
1" = 1'-0"



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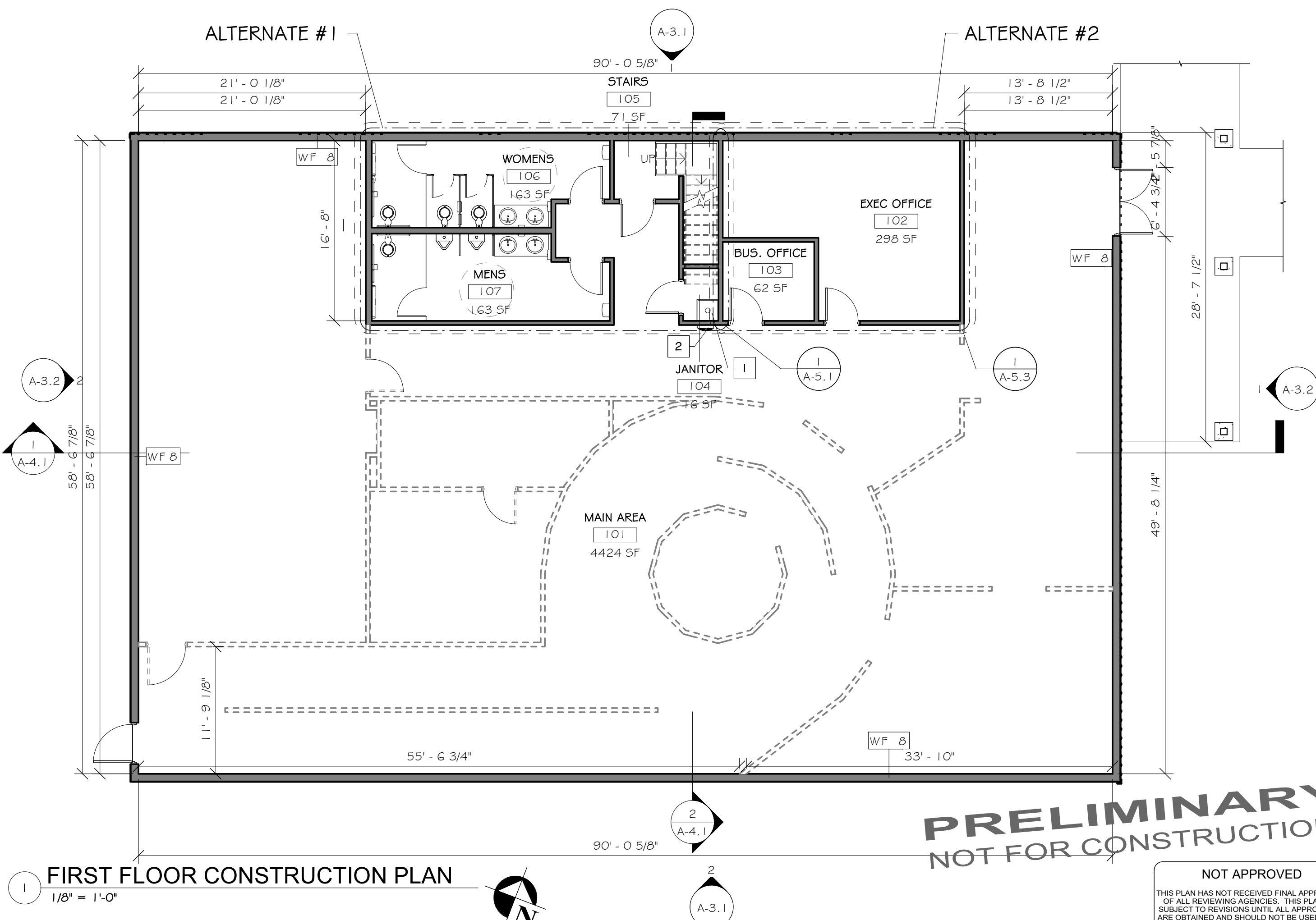
- GYPSUM BOARD (GWB):
 1. ALL DIMENSIONS ARE NOMINAL TO FACE OF GWB, WHERE CERAMIC TILE IS SCHEDULED, DIMENSIONS ARE TO FACE OF GWB.
 2. ALL METAL FRAMING TO BE 3/8" UNLESS OTHERWISE NOTED.
 3. METAL STUDS TO BE PLACED 16" ON CENTER, WHERE REQUIRED STUDS SHALL NOT BE INSTALLED, PROVIDE STUDS WITH FRAMING OF SUITABLE GAGE AND STYLE TO SUIT JOINT CONDITION.
 4. ALL GYPSUM BOARD (GWB) TO BE 5/8" TYPE X 1 HOUR FIRE RATED. AT MET AREAS, ALL GWB (CEILINGS OR PARTITIONS) TO BE MOISTURE RESISTANT TYPE. AT CERAMIC TILE AREAS PROVIDE CEMENT BACKER UNIT (CEMENT BOARD) IN LIEU OF GWB TO RECEIVE CERAMIC TILE.
 5. PROVIDE ACoustICAL SEALANT AT ALL PARTITIONS, PERIMETERS, RUNNERS, ELECTRICAL OUTLETS, PENETRATIONS AND OPENINGS. TO MINIMIZE SOUND TRANSMISSION, ELECTRICAL OUTLETS SHALL BE SEPARATED BY MINIMUM ONE STUD, BACK TO BACK. RECEPTABLES ARE NOT ACCEPTABLE.
 6. ALL PARTITIONS TO RECEIVE 3" SOUND ATTENUATION BLANKET UNLESS INDICATED IN PARTITION REMARKS SECTION OF PARTITION SYMBOL.
 7. PROVIDE FIRE RATED PARTITIONS WHERE INDICATED. FIRE STOPPIFFS SAFE & SMOKE STOP ALL PENETRATIONS THROUGH PARTITIONS, GAPS & JOINTS. ALL FIRE RATED PARTITION ASSEMBLIES SHALL EXTEND FULL HEIGHT FROM FLOOR TO UNFINISHED METAL CEILING. ADD ALL OTHER PARTITIONS TO EXTEND FULL HEIGHT UNLESS OTHERWISE NOTED. FIRE RATED PARTITION TERMINATIONS SHALL BE FIRE STOPPED/FIRE SAFED TO PROVIDE THE SCHEDULED FIRE RESISTANCE RATING, REFER TO BUILDING CODE REVIEW PLANS).
 7. WHERE GWB PARTITION EDGE ALIGNS WITH CMU PARTITION EDGE, ADJUST ALIGNMENT SO THAT GWB PARTITION LAMINATES OVER CMU, EXTEND GWB TO CORNER.
 8. METAL STUDS IN CHASE PARTITIONS TO BE BRACED TO EACH OTHER AT 1/3 POINTS.
 9. WHERE CONSTRUCTION SHALL BE ISOLATED WITH CONTROL JOINTS WHERE:
 - A. PARTITIONS OR CEILINGS OF DISSIMILAR CONSTRUCTION MEET AND REMAIN IN THE SAME PLANE.
 - B. WHERE WINGS OF 'L', 'U' & 'I' SHAPED CEILING AREAS ARE JOINED.
 - C. EXPANSION OR CONTROL JOINTS OCCUR IN THE BUILDING STRUCTURE OR WALL CONSTRUCTION. PROVIDE CONTROL JOINTS IN THE FACE OF GWB PARTITIONS AND CEILINGS WHEN THE JOINT IN THE SURFACE EXCEEDS THE FOLLOWING CONTROL JOINT SPACINGS:
 1. PARTITIONS: 30' MAXIMUM IN EITHER DIRECTION.
 2. INTERIOR CEILINGS: 50' MAX IN EITHER DIRECTION (W/ PERIMETER RELIEF). 30' MAX IN EITHER DIRECTION (W/O PERIMETER RELIEF).
 10. PROVIDE SOUND BLOCKING AT ALL WALLS RECEIVING WALL MOUNTED EQUIPMENT AND/OR ACCESSORIES. COORDINATE WITH ALL TRADES & OWNERS EQUIPMENT/FURNITURE LAYOUTS.
 11. PROVIDE ALL PARTITION STUDS, ELECTRICAL PANS, FIRE HOSE AND EXTINGUISHER CARRIETS, ETC., LOCATED IN FIRE RATED PARTITION ASSEMBLIES SHALL BE BACKED W/ GWB AS REQUIRED TO MAINTAIN FIRE RESISTANCE RATING.
 12. PARTITION TYPES ARE INDICATED ON FLOOR PLANS. EACH PARTITION TYPE SCHEDULED PROVIDES A COMPLETE ASSEMBLY DESCRIPTION INCLUDING METAL STUD SIZE, THICKNESS AND NUMBER OF LAYERS OF GWB REQUIRED, SOUND ATTENUATION BLANKET, AND OTHER DATA. WHERE PARTITION TYPES ARE NOT INDICATED ON FLOOR PLANS, PROVIDE THE FOLLOWING: 3/8" METAL STUD (MIN GAGE) OR 20, (1) LAYER 5/8" GWB (BOTH SIDES), SOUND ATTENUATION BLANKET IN STUD CAVITY.
 13. WHERE INSULATION EXTENDS FULL HEIGHT AND IS NOT CONCEALED BY GYPSUM BOARD, PROVIDE COMPRESSION RODS OR SUITABLE FRAMING TO SUPPORT INSULATION.

[illegible]

1. ALL WORK INDICATED ON THE ARCHITECTURAL, SITE, & STRUCTURAL DRAWINGS IS TO BE BY THE GENERAL TRADES CONTRACTOR UNLESS NOTED OTHERWISE. THE GENERAL TRADES CONTRACTOR IS RESPONSIBLE FOR ALL WORK REQUIRED TO IMPLEMENT THE WORK OF THE GENERAL TRADES CONTRACT, REGARDLESS OF WHETHER SPECIFICALLY INDICATED OR NOT, UNLESS NOTED OTHERWISE.
2. ALL DIMENSIONS ARE FROM THE SURFACE OF SHEATHING, UNLESS NOTED OTHERWISE.
3. ITEMS SHOWN ARE TO BE APPROXIMATE QUANTITY, LOCATION AND TYPE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ACTUAL QUANTITY & EXISTING FIELD CONDITIONS.
4. THE OWNER RESERVES THE RIGHT TO RETAIN ANY REMOVED ITEMS AFTER CONTRACTOR REMOVAL. THE CONTRACTOR SHALL REMOVE FROM THE SITE, & DISPOSE OF ANY ITEMS THE OWNER DOES NOT WISH TO RETAIN.
5. THE CONTRACTOR SHALL RESTORE ALL EXCAVATIONS TO EXISTING GRADE ELEVATION UNLESS NOTED OTHERWISE.
6. VERIFY WITH THE OWNER THE EXACT SIZE OF ALL EQUIPMENT FURNISHED BY OWNER FOR PROPER FIT WITH CONTRACTOR SUPPLIED COMPONENTS.
7. PROVIDE AN APPROVED GALVANIC BARRIER BETWEEN ALL DISSIMILAR METALS IN CONTACT WITH ONE ANOTHER.
8. THE WHEELCHAIR SYMBOL INDICATES HANDICAPPED ACCESSIBLE MOUNTED FIXTURE ELEVATION AND SHALL CONFORM WITH CABQ/ANSI A117.1 & ADAAG REQUIREMENTS.
9. THE HVAC, PLUMBING, & ELECTRICAL TRADES CONTRACTORS SHALL COORDINATE ROOF & WALL OPENINGS WITH THE GENERAL TRADES CONTRACTOR. THE GENERAL TRADES CONTRACTOR SHALL PROVIDE ALL ROOF & WALL OPENINGS FOR DUCTWORK/HVAC EQUIPMENT UNLESS NOTED OTHERWISE.
10. THIS CONTRACT REQUIRES COMPLETE & WORKABLE SYSTEMS & ALL COMPONENTS NECESSARY FOR SUCH SYSTEMS. ALL MATERIALS & LABOR SHALL BE PROVIDED AS INDICATED & REASONABLY INFERRED BY THE CONTRACT DOCUMENTS.
11. CONTRACTORS SHALL NOT SCALE DRAWINGS FOR CONSTRUCTION PURPOSES. IN THE EVENT OF OMISSION OF NECESSARY DIMENSIONS OR INFORMATION THE CONTRACTOR SHALL NOTIFY THE ARCHITECT.
12. THE CONTRACTOR SHALL COORDINATE THE WORK OF THIS CONTRACT WITH THE WORK OF OTHER TRADES. VERIFY SIZE & LOCATION OF ALL OPENINGS FOR MECHANICAL & ELECTRICAL EQUIPMENT & RELATED WORK WITH CONTRACTORS INVOLVED PRIOR TO INSTALLATION.
13. THE GENERAL TRADES CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BLOCKING FOR THE SUPPORT OF ALL ITEMS OR EQUIPMENT SHOWN OR SPECIFIED.
14. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS & EXISTING CONDITIONS IN THE FIELD BEFORE COMMENCING ANY WORK & NOTIFY THE ARCHITECT IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND.
15. THE CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION REQUIRED TO IMPLEMENT THE WORK OF THEIR RESPECTIVE CONTRACT, REGARDLESS OF WHETHER SPECIFICALLY INDICATED OR NOT, UNLESS NOTED OTHERWISE.
16. ALL PENETRATIONS & PERIMETER OF FIRE RATED PARTITIONS ARE TO BE SEALED WITH APPROVED U.L. FIRE RATED ASSEMBLIES.
17. THE GENERAL TRADES CONTRACTOR SHALL BE RESPONSIBLE FOR SEALANT AT THE PERIMETER OF ALL MECHANICAL, PLUMBING, & ELECTRICAL PENETRATIONS. EACH RESPECTIVE TRADE SHALL BE RESPONSIBLE FOR PROPER WATER SEALS AT PENETRATIONS REQUIRING SEALS IN EXCESS OF CAULKING.
18. OTHER DOOR CLOSERS SHALL BE NOMINAL 6" FROM FINISHED CORNER OF ROOM AT HINGE SIDE, EXCEPT WHERE DIMENSIONED OTHERWISE. DOOR STRIKES SHALL BE 1'-6" MINIMUM FROM A PERPENDICULAR WALL ON THE PULL' SIDE OF A DOOR AND 1'-0" ON THE PUSH' SIDE OF A DOOR WITH BOTH A CLOSER AND LATCH.
19. ALL EXTERIOR CONCRETE SLABS SHALL SLOPE AWAY FROM BUILDING AT 1/8 INCH PER FOOT UNLESS OTHERWISE NOTED.
20. DASHED WALLS DENOTE FUTURE PHASE NOT IN PROJECT SCOPE.

1. ALL INTERIOR PARTITIONS SHALL BE ASSEMBLY MA3, UNLESS NOTED OTHERWISE.
2. ALL DIMENSIONS ARE TO FACE OF GYPSUM WALL BOARD UNLESS NOTED OTHERWISE.
3. ALL PARTITIONS SHALL BE BRACED TO STRUCTURE ABOVE.
4. SEE SHEET C-1.1 FOR BUILDING CODE COMPLIANCE AND SPECIFICATIONS.
5. SEE ACCESSIBILITY COMPLIANCE ON SHEET C-1.2 FOR CODE COMPLIANCE AND STANDARDS
6. GENERAL NOTES SHALL APPLY TO ALL CONTRACTORS, SEE SHEET A-1.0 FOR GENERAL NOTES # BUILDING ASSEMBLIES.
7. PROVIDE A MINIMUM OF 6" OF CLEAR SPACE AT THE HINGE SIDE OF DOORS, UNLESS NOTED OR INFEASIBLE.

- 1 PROVIDE MOP SINK COMPLETE.
- 2 PROVIDE DRINKING FOUNTAIN COMPLETE.
- 3 BATHROOM TOILET AND URINAL PARTITIONS + STALLS TO BE BOBRICK BUDGET METROSERIES HPL, COLOR TBD, SELECTION BY OWNER FROM GENERAL COLOR PALLETTE.

[illegible]

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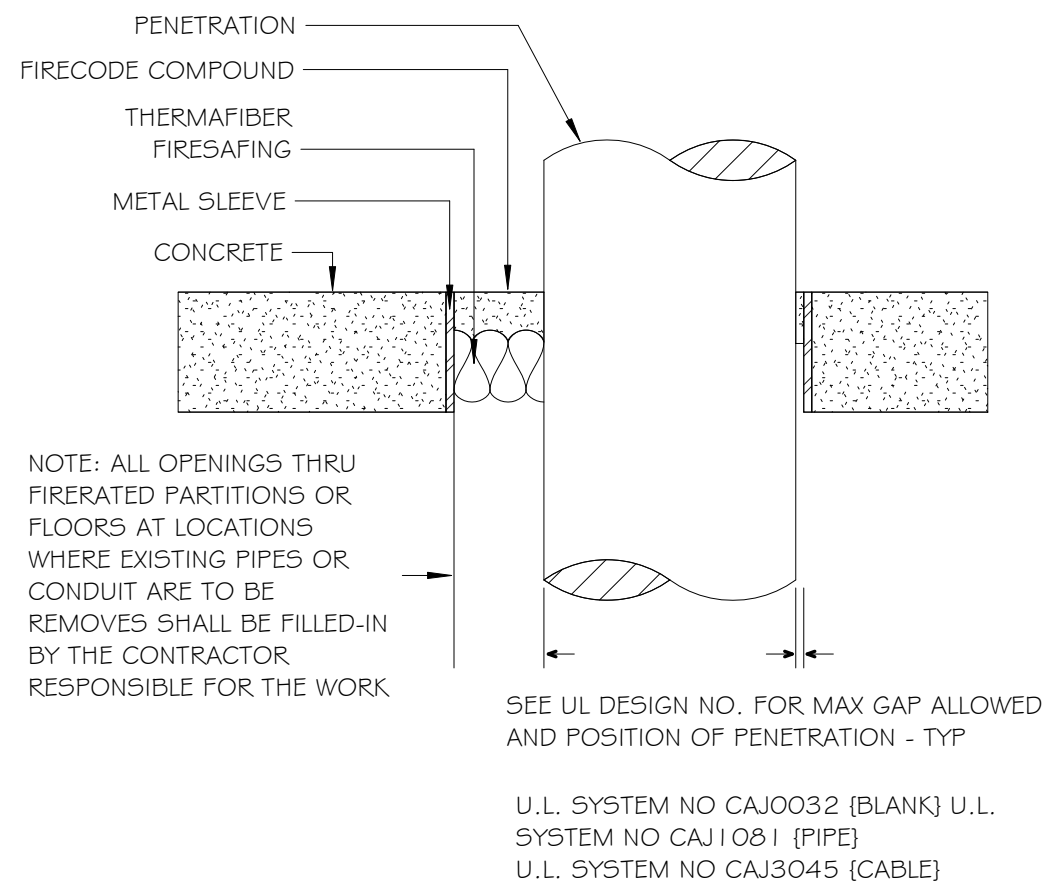
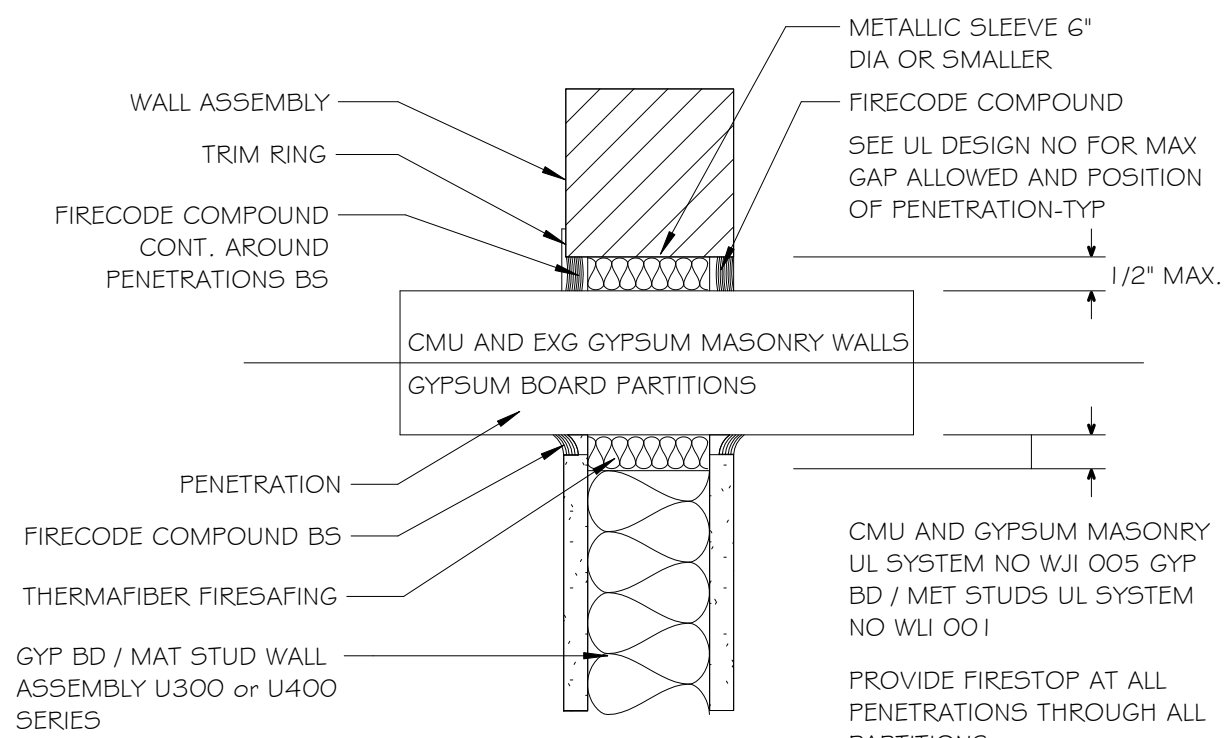
PROJECT ELMIRA CIVIL WAR VISITOR CENTER 637-639 WINSOR AVE ELMIRA, NY 14901	TITLE OF DRAWING FIRST FLOOR AND LOFT CONSTRUCTION PLANS
DRAWING SCALE AS NOTED ISSUE DATE: 10.28.2025 PROJECT NO. 25-086 DRAWING NO. A-1.1	

ROOF PLAN KEYNOTES

- 1 PROVIDE METAL ROOF COMPLETE
- 2 PROVIDE CUPOLA COMPLETE
- 3 PROVIDE GUTTERS AND DOWNSPOUTS COMPLETE
- 4 PROVIDE ENTRY COVERING COMPLETE

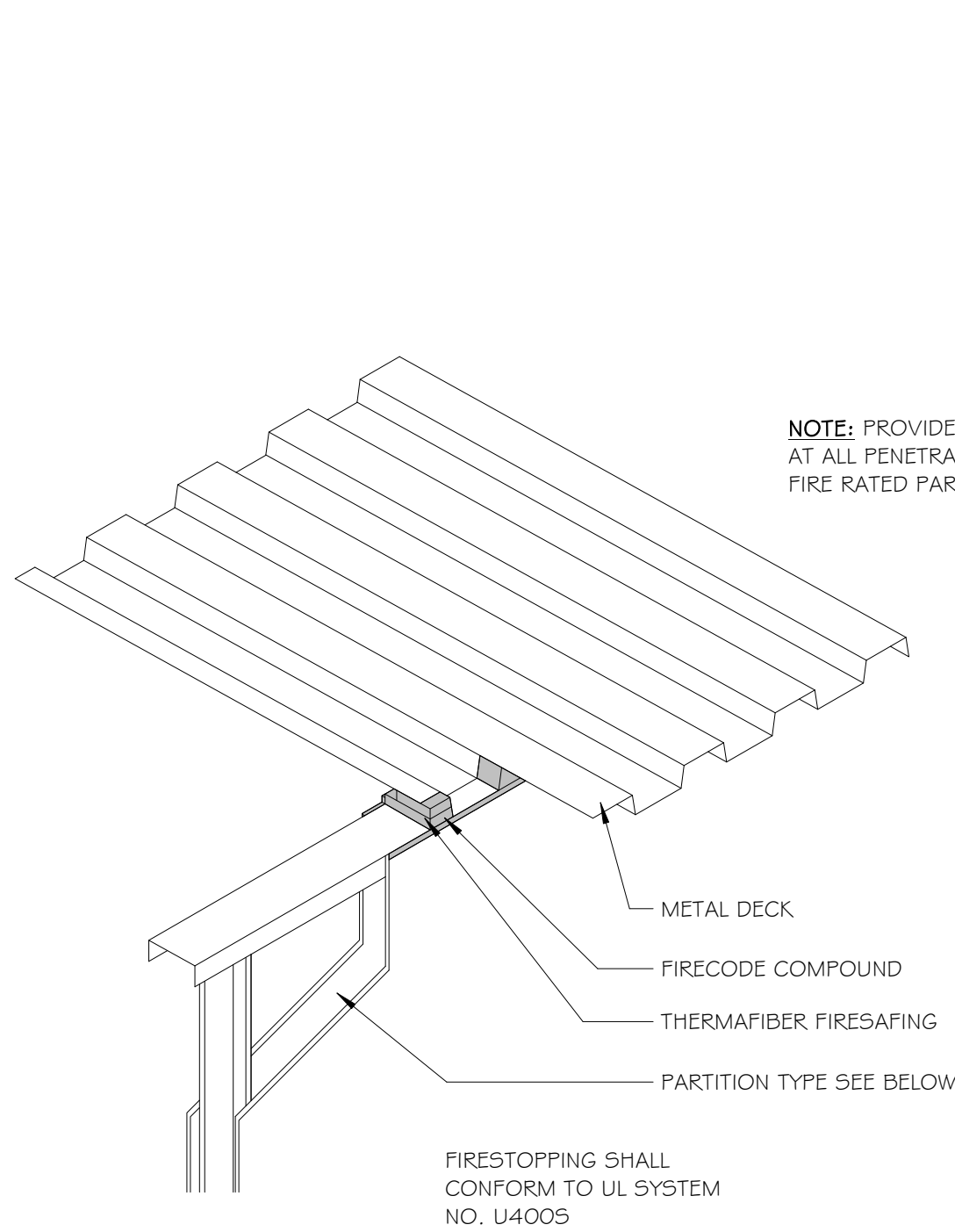
GENERAL ROOFING NOTES

1. ALL WORK SHALL CONFORM TO THE NEW YORK STATE BUILDING CODE AND ADOPTED REFERENCE STANDARDS.
2. THE GENERAL TRADES CONTRACTOR SHALL INSTALL AND MAINTAIN TEMPORARY ROOFING TO ENSURE WEATHER TIGHT CONDITIONS UNTIL SUCH TIME THE PERMANENT ROOFING SYSTEM IS INSTALLED.
3. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL MATERIALS TO MAKE SMOOTH TRANSITIONS AT ROOF EDGES AND INTERSECTIONS. TAPERED EDGE STRIPS ARE REQUIRED AT PERIMETER.
4. THE GENERAL TRADES CONTRACTOR SHALL REFER TO THE HVAC DRAWINGS AND COORDINATE WITH THE HVAC CONTRACTOR FOR QUANTITY AND LOCATIONS OF PENETRATIONS THROUGH ROOF FOR EQUIPMENT RAILS, CURBS, AND BOOTS.
5. THE GENERAL TRADES CONTRACTOR SHALL PROVIDE FLASHING AT ALL PENETRATIONS.
6. THE GENERAL TRADES CONTRACTOR IS TO PROVIDE ANY ADDITIONAL BLOCKING, AND ANY ASSOCIATED ACCESSORIES REQUIRED.



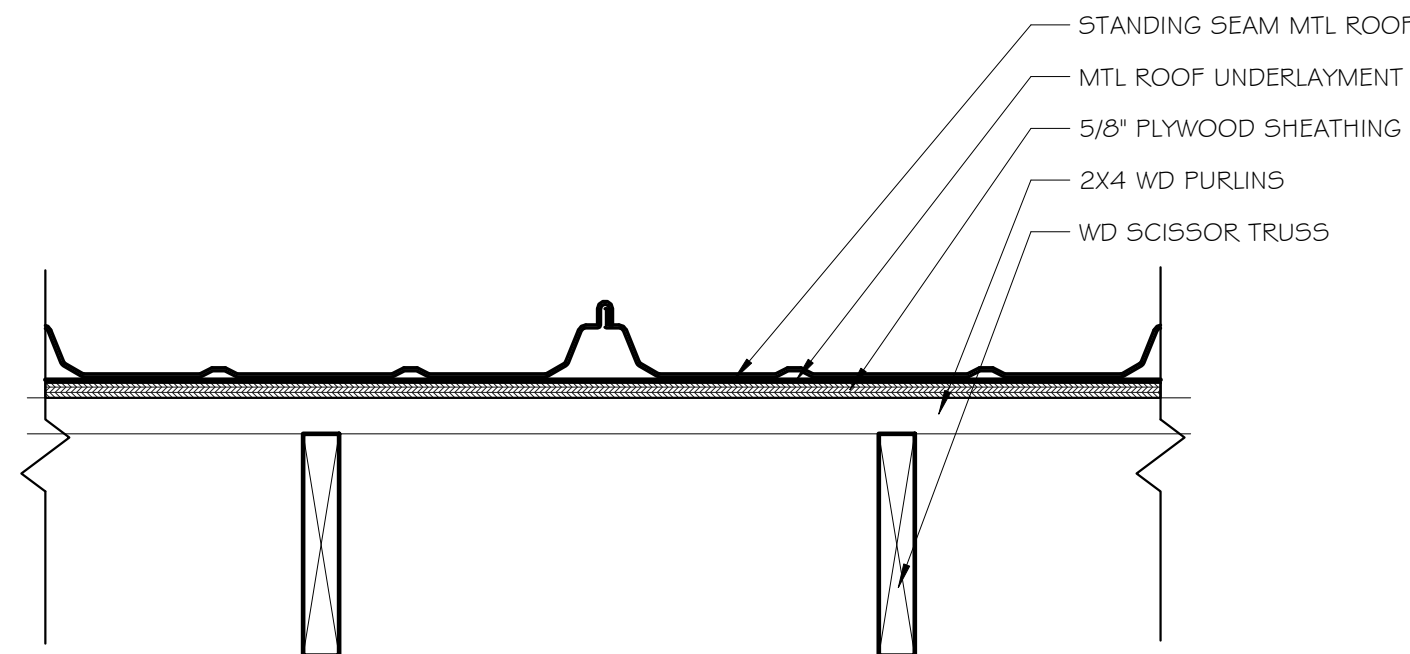
5 DETAIL - TYPICAL PENETRATIONS

1/8" = 1'-0"



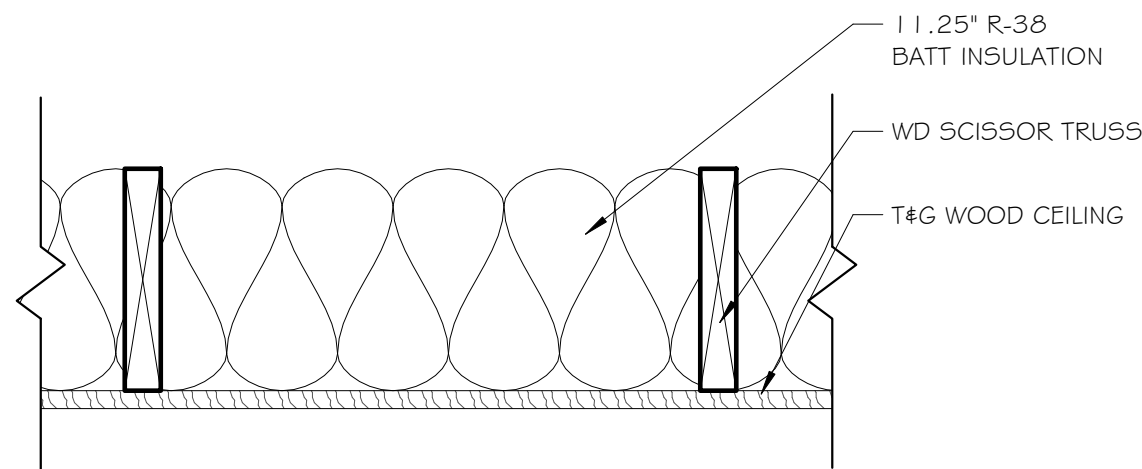
4 DETAIL - TYPICAL FIRESTOPPING

1/8" = 1'-0"



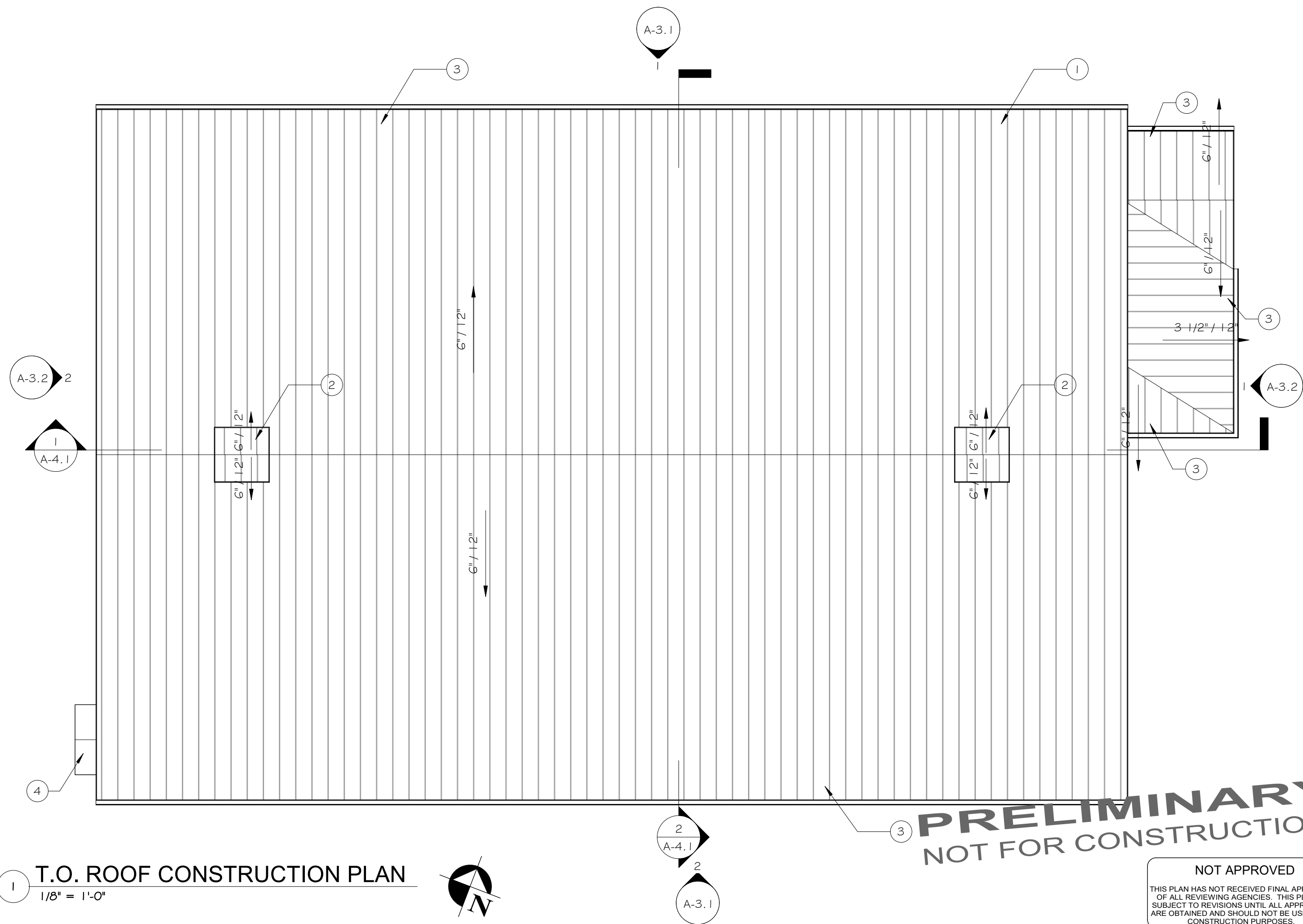
3 DETAIL - TYPICAL METAL ROOF

1 1/2" = 1'-0"



2 DETAIL - TYPICAL VAULTED CEILING

1 1/2" = 1'-0"

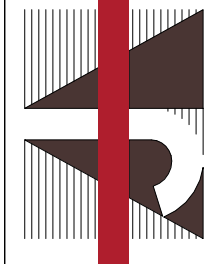


1 T.O. ROOF CONSTRUCTION PLAN

1/8" = 1'-0"

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PROJECT
ELMIRA CIVIL WAR VISITOR CENTER
637-639 WINSOR AVE
ELMIRA, NY 14901

TITLE OF DRAWING
ROOF CONSTRUCTION PLAN

DRAWING SCALE
AS NOTED

ISSUE DATE:
10.28.2025

PROJECT NO.
25-086

DRAWING NO.
A-1.4

	GYPSON BOARD CEILING, 1 LAYER 5/8"		HARD WIRED SMOKE DETECTOR		SURFACE MOUNTED CEILING FIXTURE
	OPEN TO ABOVE		CARBON MONOXIDE DETECTOR		WALL MOUNT LIGHT
	EMERGENCY LIGHTING		AUDIO ALARM DEVICE		RECESSED CEILING FIXTURE
	EXIT SIGNAGE		FIRE ALARM PULL BOX		RECESSED SPRINKLER HEAD
	EXIT SIGNAGE WITH 2- HEAD EMERGENCY LIGHT W/ BATTERY BACK-UP		AUDIOVISUAL DEVICE		SEMI-RECESSED SPRINKLER HEAD
	TONGUE & GROOVE WOOD CEILING		LINEAR LIGHT		

A.	ALL CEILINGS SHALL BE AT 8'-0" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
B.	ALL GWB CEILINGS AND SOFFITS ARE 1/2" GWB, UNLESS NOTED OTHERWISE, ALL VERTICAL FACES OF SOFFITS ARE 1/2" GWB, UNLESS NOTED OTHERWISE.
C.	REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC LIGHT FIXTURE TYPES, EXIT LIGHT, SMOKE DETECTORS AND ALARMS. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL PENETRATIONS.
D.	ALL FIRE PROTECTION AND LIFE SAFETY SHALL BE IN ACCORDANCE WITH 2020 FIRE CODE OF NEW YORK STATE AND NFPA 72.

[illegible]

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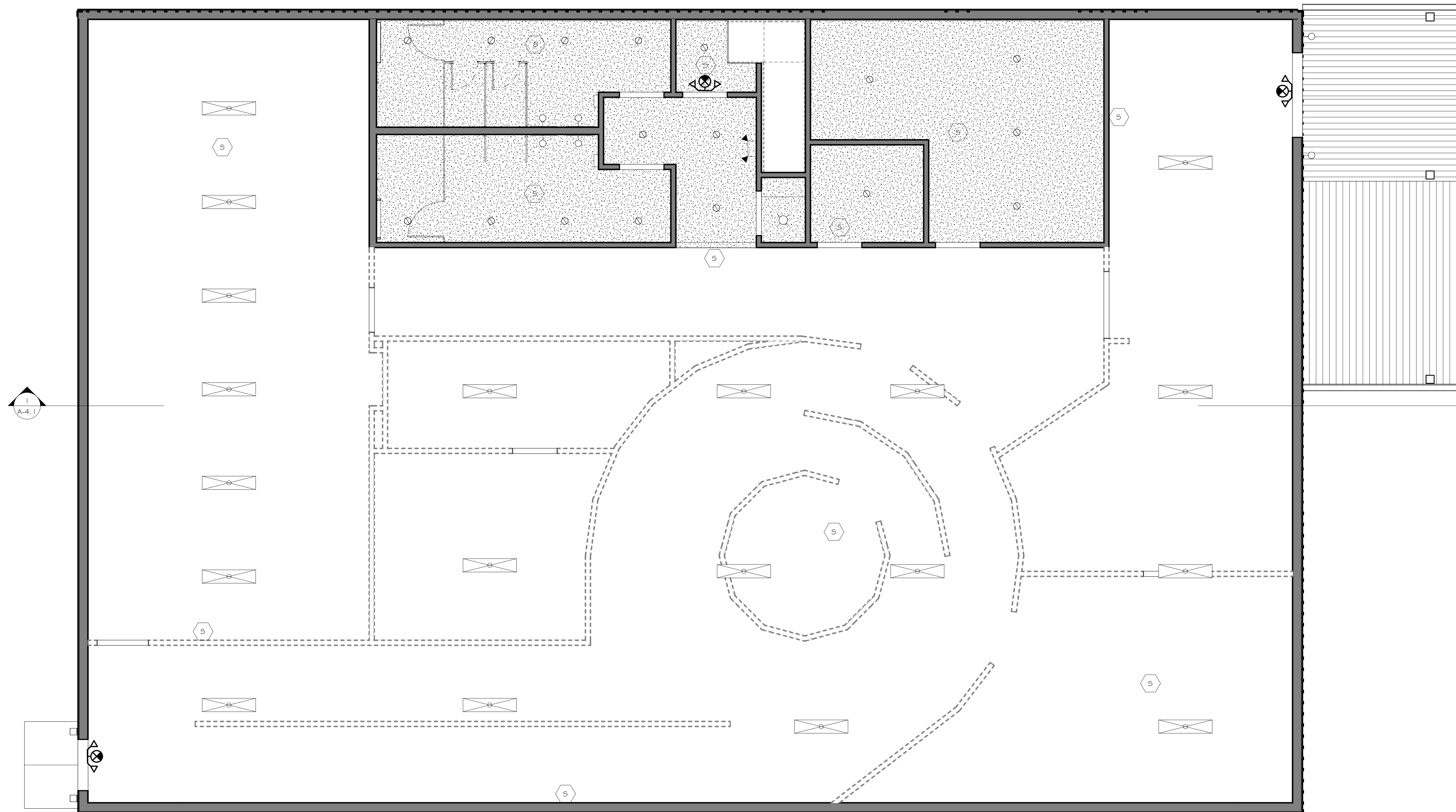
FRIENDS OF ELMIRA CIVIL WAR PRISON CAMP

OWNER/CLIENT

[illegible]

PROJECT ELMIRA CIVIL WAR VISITOR CENTER 637-639 WINSOR AVE ELMIRA, NY 14901	TITLE OF DRAWING FIRST FLOOR REFLECTED CEILING PLAN
--	--

DRAWING SCALE
AS NOTED
ISSUE DATE:
10.28.2025
PROJECT NO.
25-086
DRAWING NO.
A-2.1



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A-2.1

	GYPSON BOARD CEILING, 1 LAYER 5/8"		HARD WIRED SMOKE DETECTOR		SURFACE MOUNTED CEILING FIXTURE
	OPEN TO ABOVE		CARBON MONOXIDE DETECTOR		WALL MOUNT LIGHT
	EMERGENCY LIGHTING		AUDIO ALARM DEVICE		RECESSED CEILING FIXTURE
	EXIT SIGNAGE		FIRE ALARM PULL BOX		RECESSED SPRINKLER HEAD
	EXIT SIGNAGE WITH 2- HEAD EMERGENCY LIGHT W/ BATTERY BACK-UP		AUDIOVISUAL DEVICE		SEMI-RECESSED SPRINKLER HEAD
	TONGUE & GROOVE WOOD CEILING		LINEAR LIGHT		

- A. ALL CEILINGS SHALL BE AT 8'-0" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
- B. ALL GWB CEILINGS AND SOFFITS ARE 1/2" GWB, UNLESS NOTED OTHERWISE, ALL VERTICAL FACES OF SOFFITS ARE 1/2" GWB, UNLESS NOTED OTHERWISE.
- C. REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC LIGHT FIXTURE TYPES, EXIT SIGNS, SMOKE DETECTORS AND ALARMS. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL PENETRATIONS.
- D. ALL FIRE PROTECTION AND LIFE SAFETY SHALL BE IN ACCORDANCE WITH 2020 FIRE CODE OF NEW YORK STATE AND NFPA 72.

[illegible]

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PROJECT	ELMIRA CIVIL WAR VISITOR CENTER 637-639 WINSOR AVE ELMIRA, NY 14901
TITLE OF DRAWING	LOFT REFLECTED CEILING PLAN

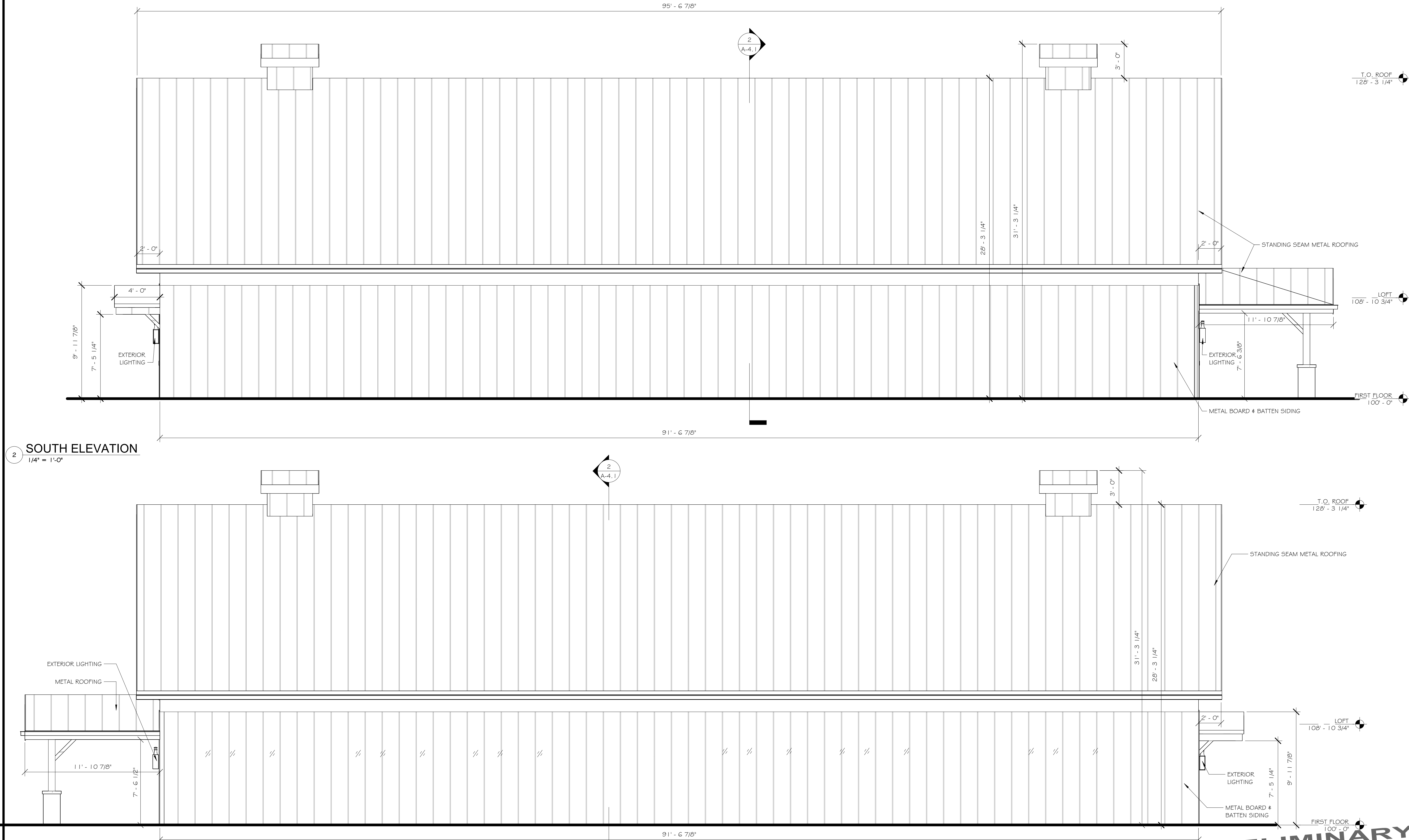
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10.28.2025
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DRAWING NO.
A-2.2

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A-2.2



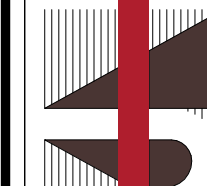
2 SOUTH ELEVATION
1/4" = 1'-0"

1 NORTH ELEVATION
1/4" = 1'-0"

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ELMIRA, NY 14901

TITLE OF DRAWING
EXTERIOR ELEVATIONS - NORTH/ SOUTH

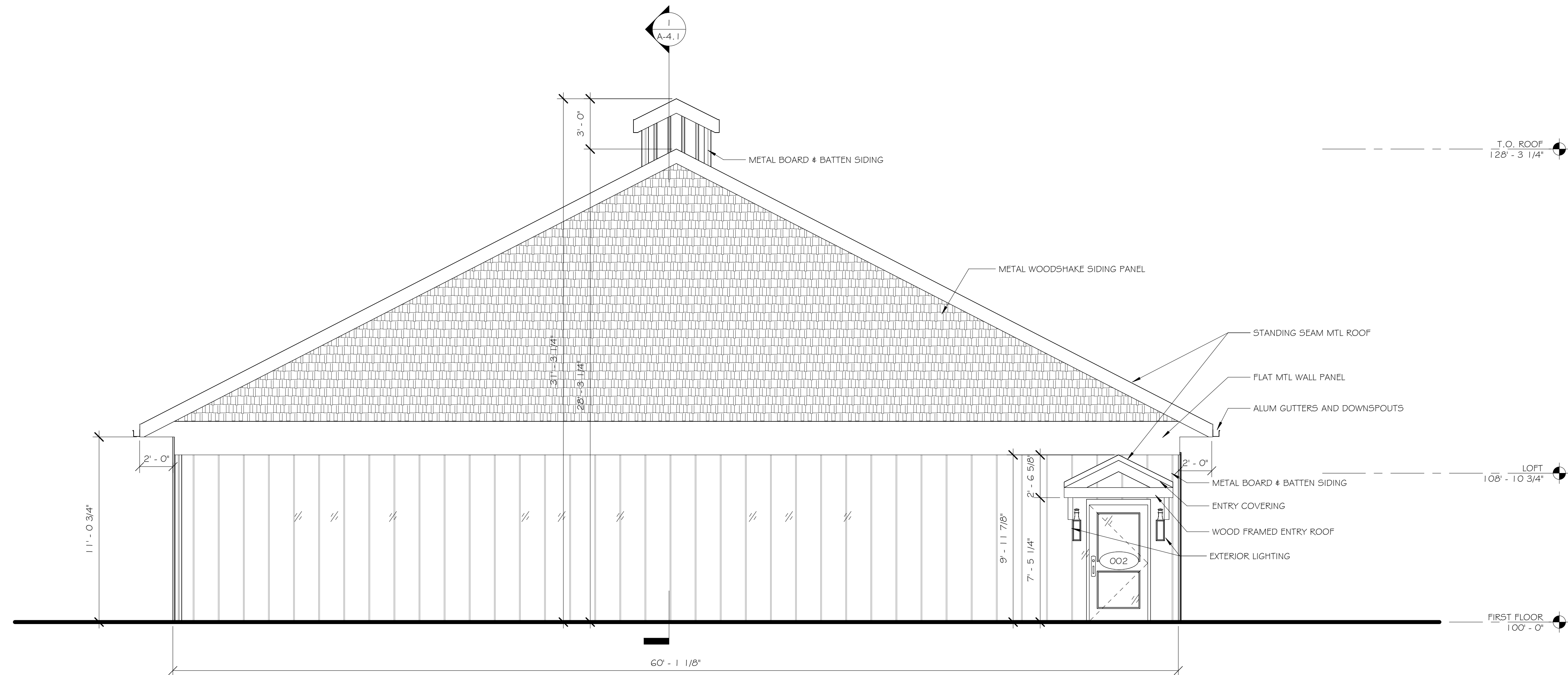
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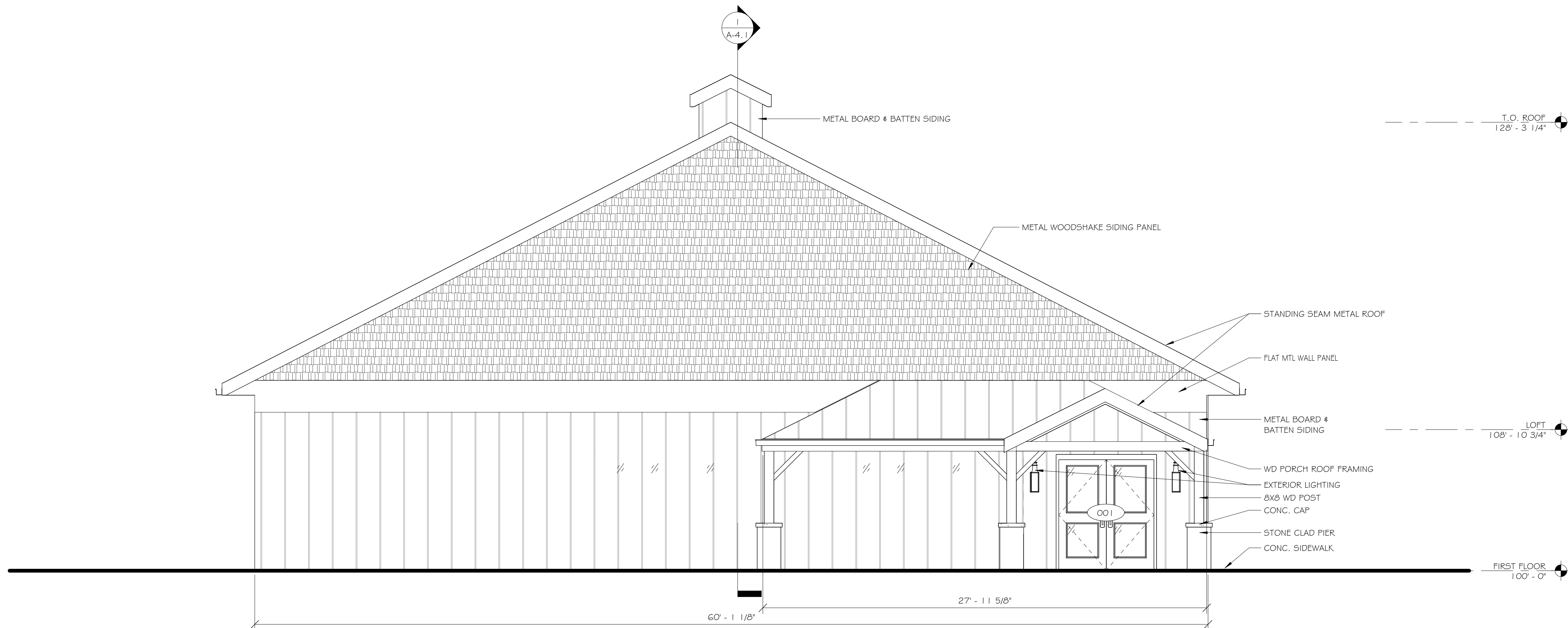
PROJECT NO.
25-086

DRAWING NO.
A-3.1

2 WEST ELEVATION
1/4" = 1'-0"



1 EAST ELEVATION
1/4" = 1'-0"

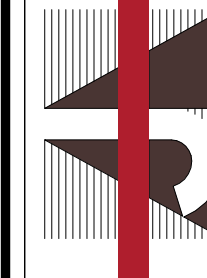


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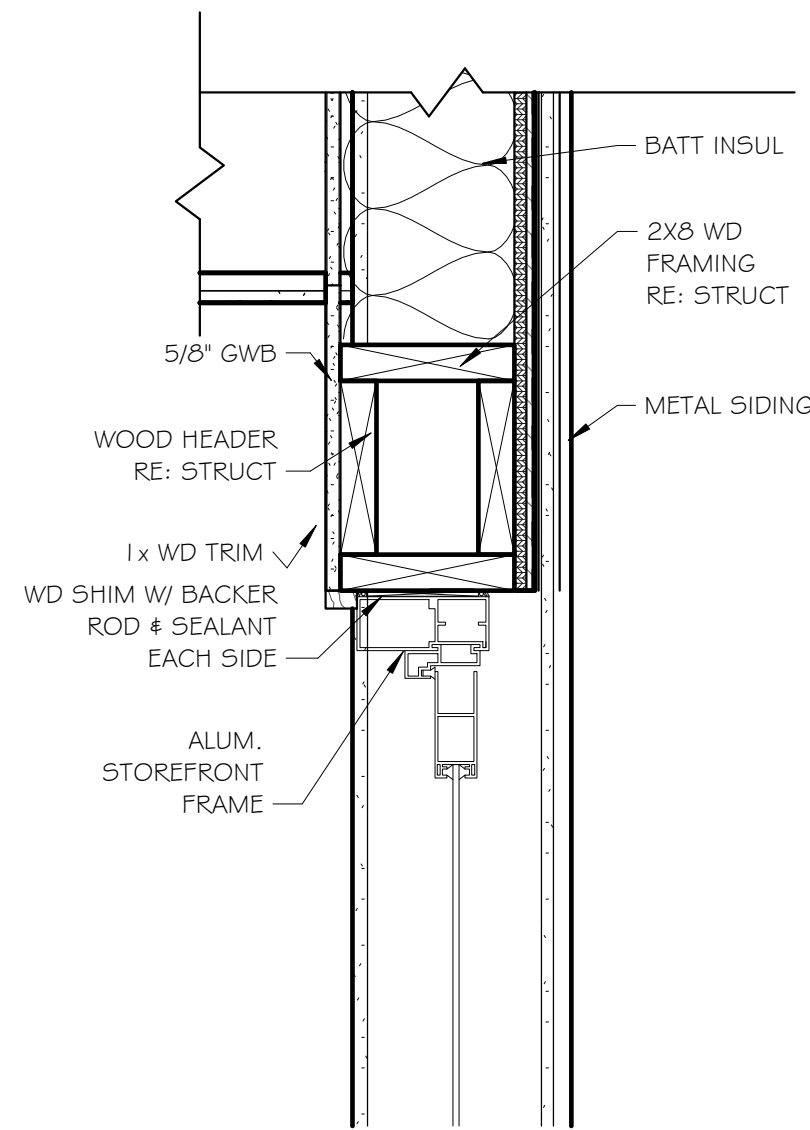
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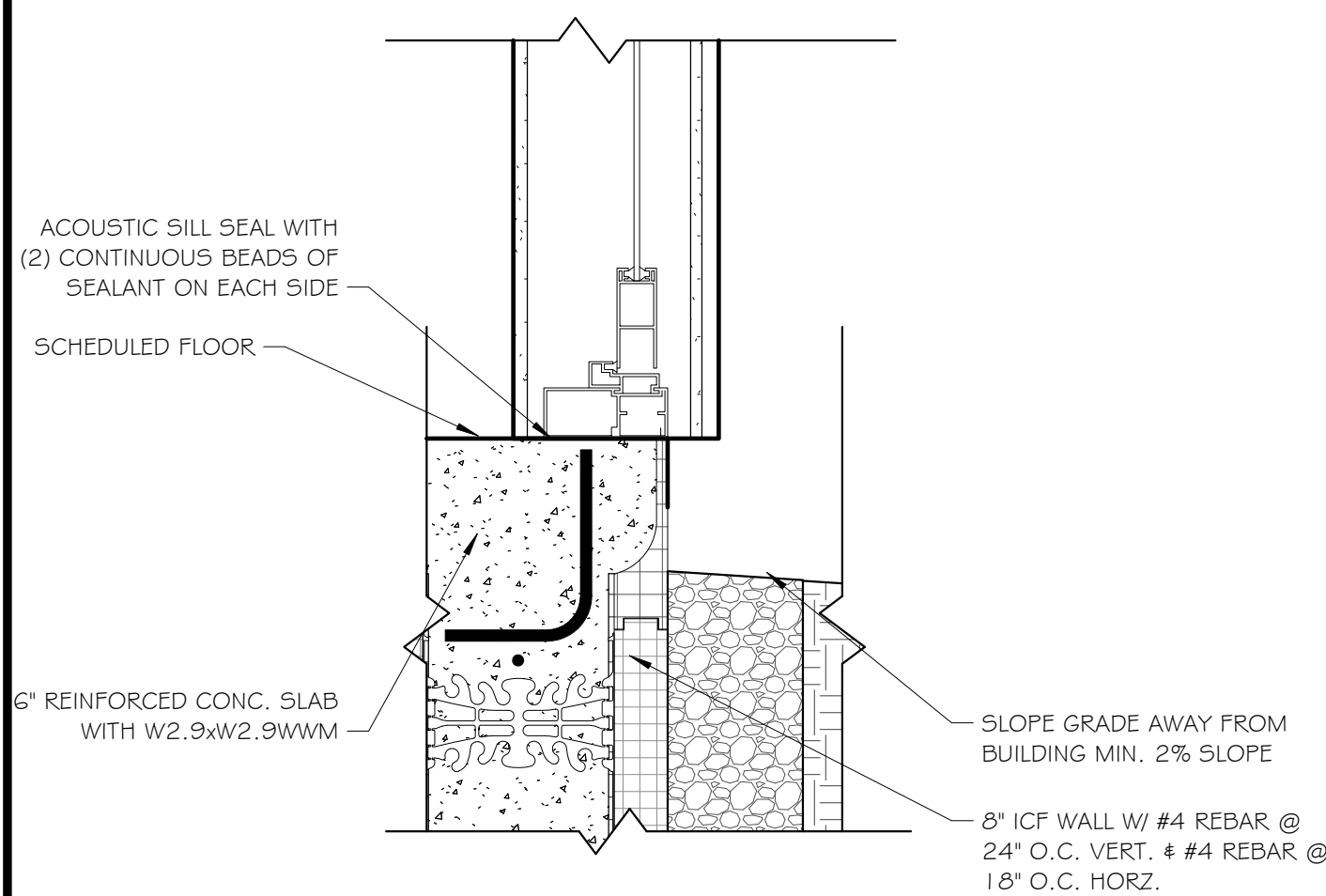
TITLE OF DRAWING
EXTERIOR ELEVATIONS - EAST/WEST

DRAWING SCALE
AS NOTED
ISSUE DATE:
10.28.2025
PROJECT NO.
25-086
DRAWING NO.

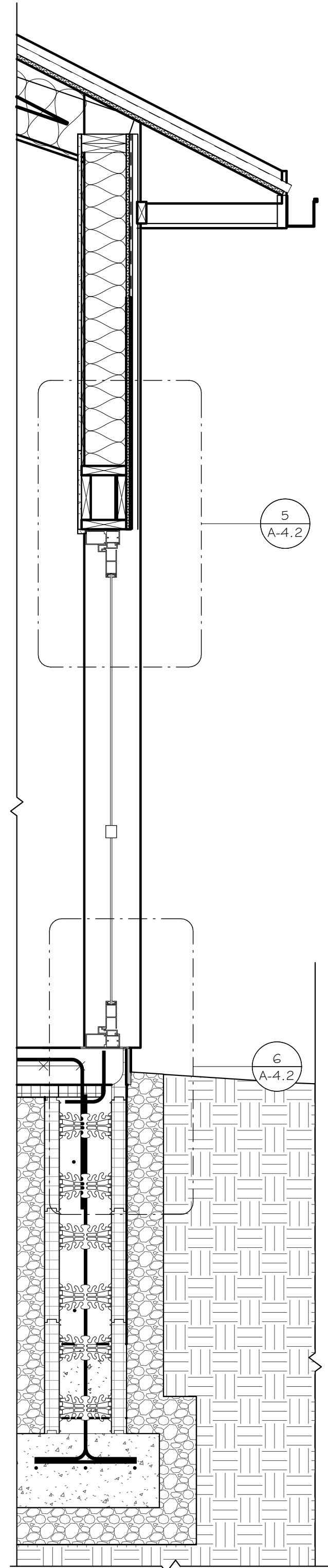
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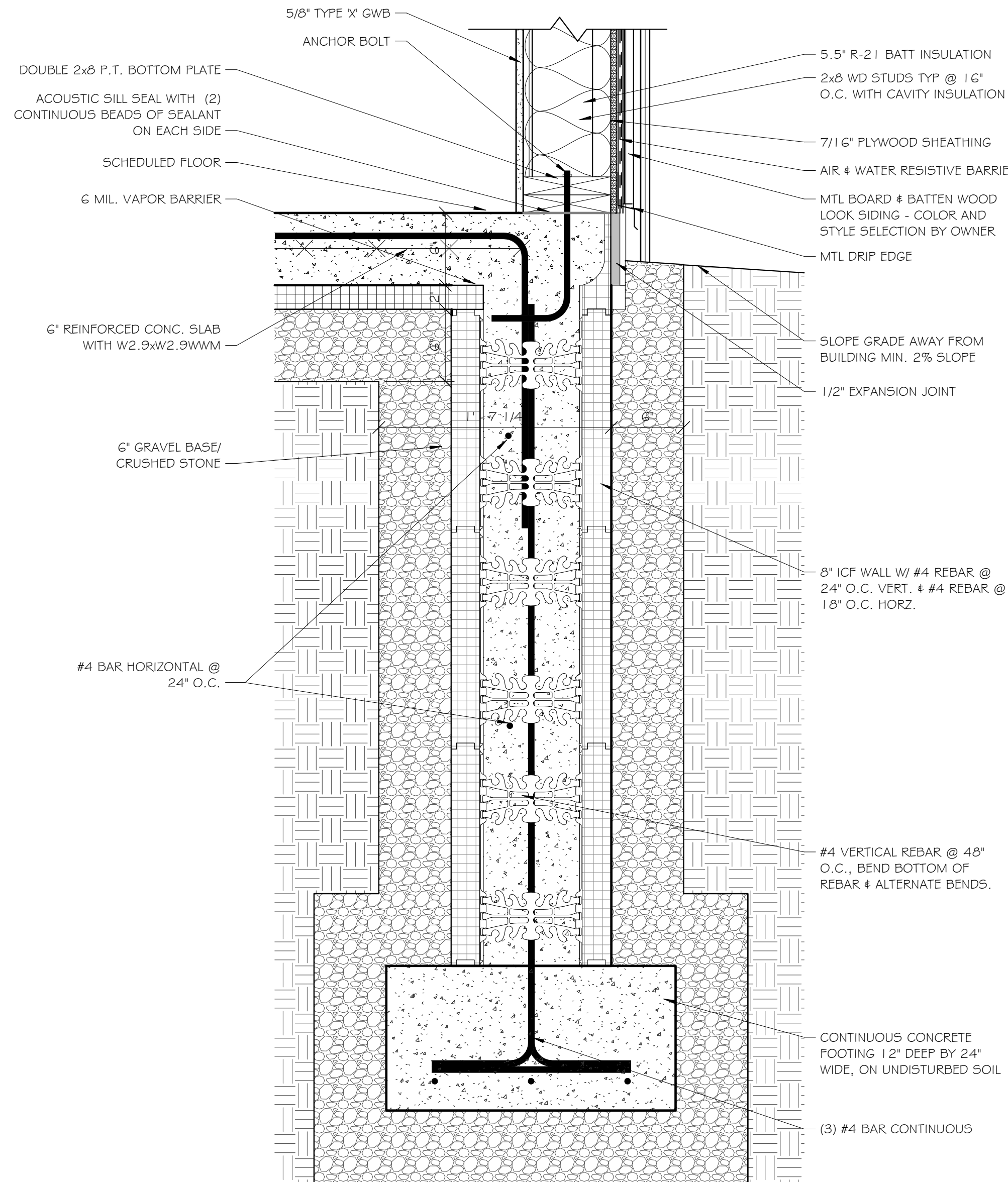
5 TYP. DETAIL @ CURTAIN WALL HEADER
1 1/2" = 1'-0"



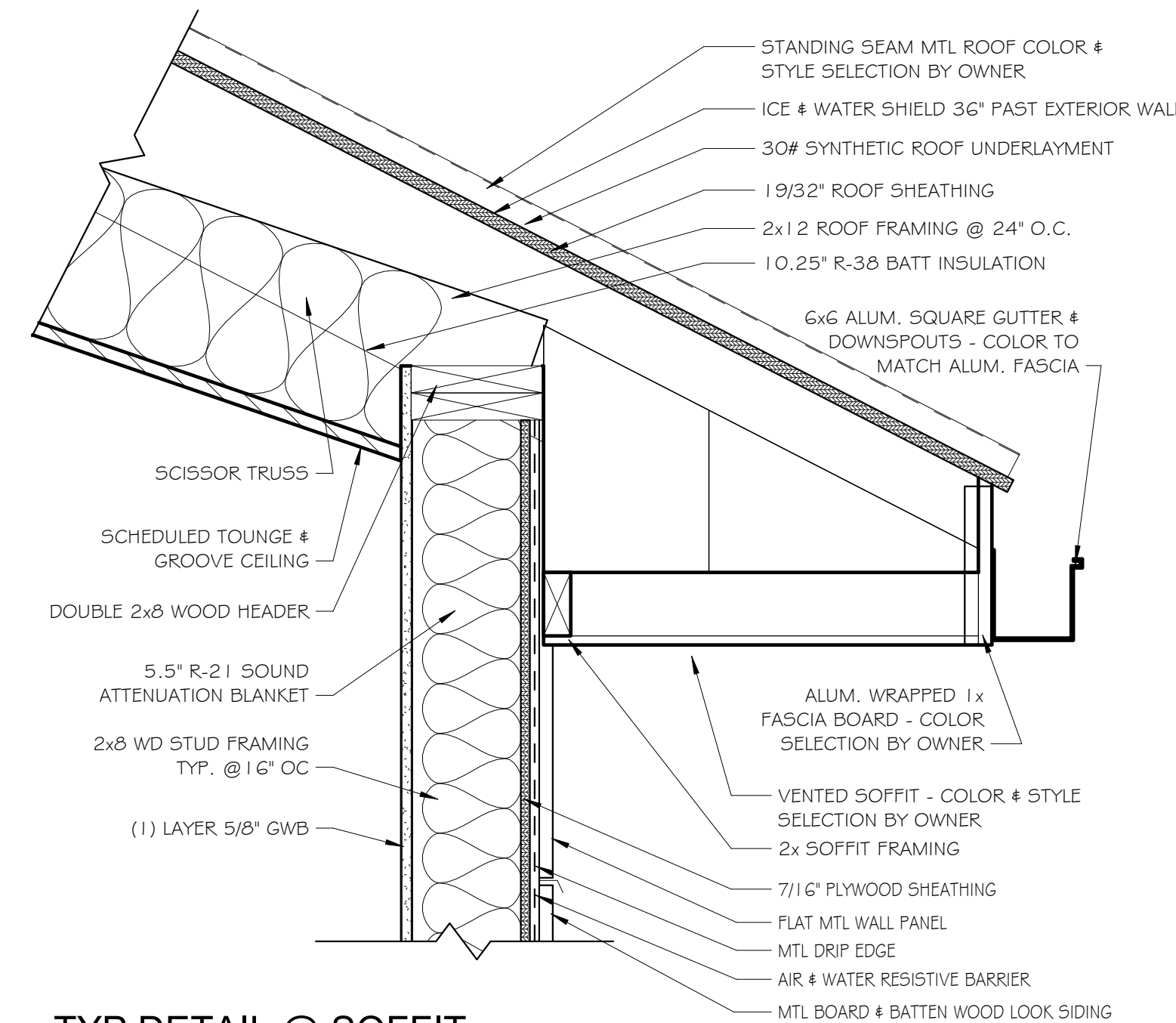
6 TYP. DETAIL @ EXTERIOR CURTAIN WALL BASE
1 1/2" = 1'-0"



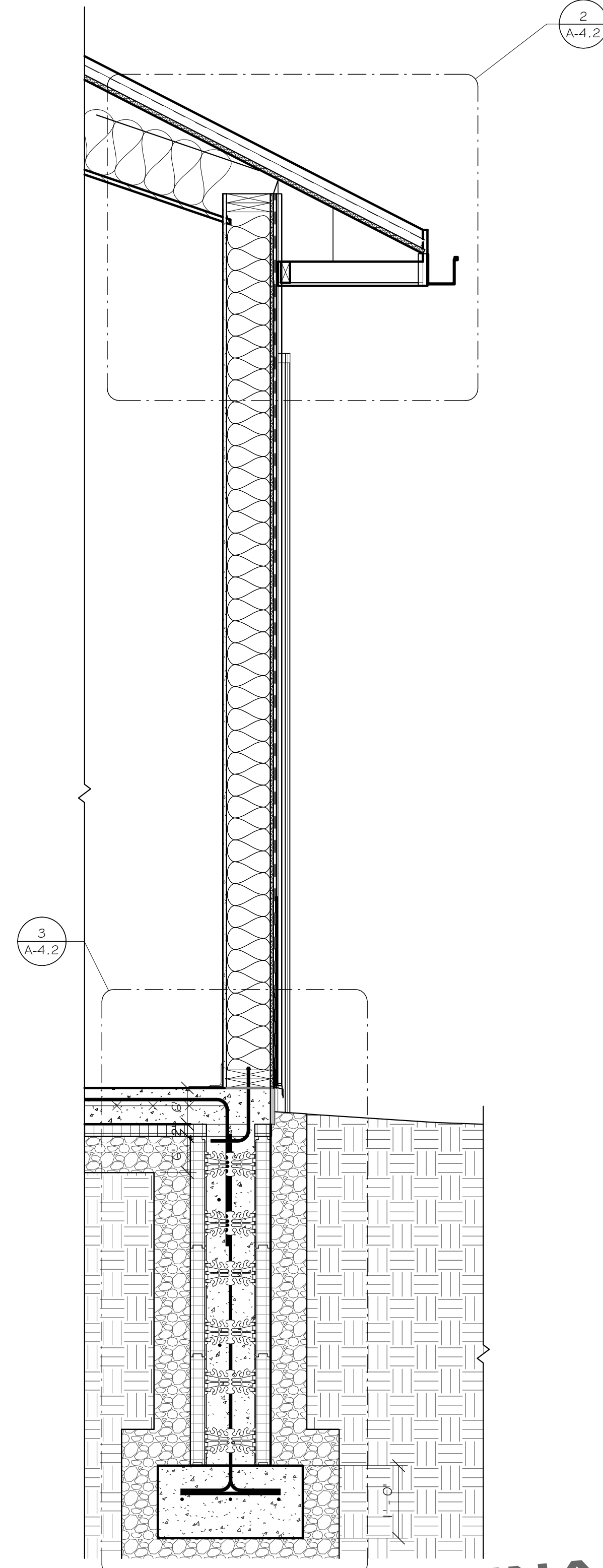
4 WALL SECTION @ CURTAIN WALL
3/4" = 1'-0"



3 TYP DETAIL @ EXTERIOR WALL BASE
1 1/2" = 1'-0"



2 TYP DETAIL @ SOFFIT



1 TYP WALL SECTION
3/4" = 1'-0"

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TITLE OF DRAWING
WALL SECTIONS

DRAWING SCALE
AS NOTED

ISSUE DATE:
10.28.2025

PROJECT NO.
25-086

DRAWING NO.

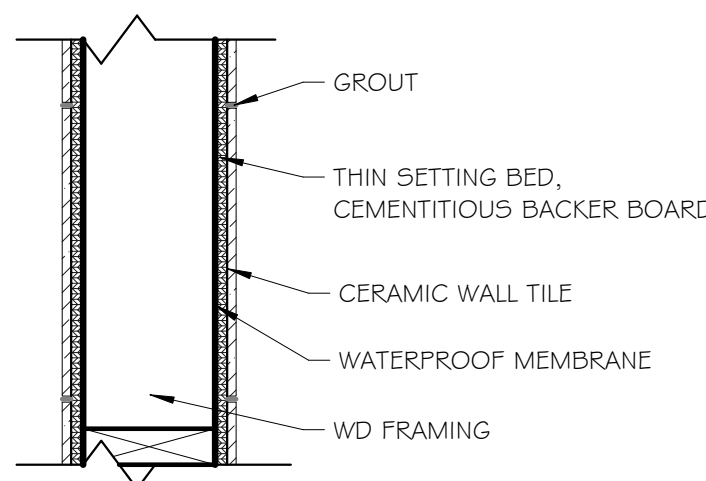
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GENERAL PLAN NOTES:

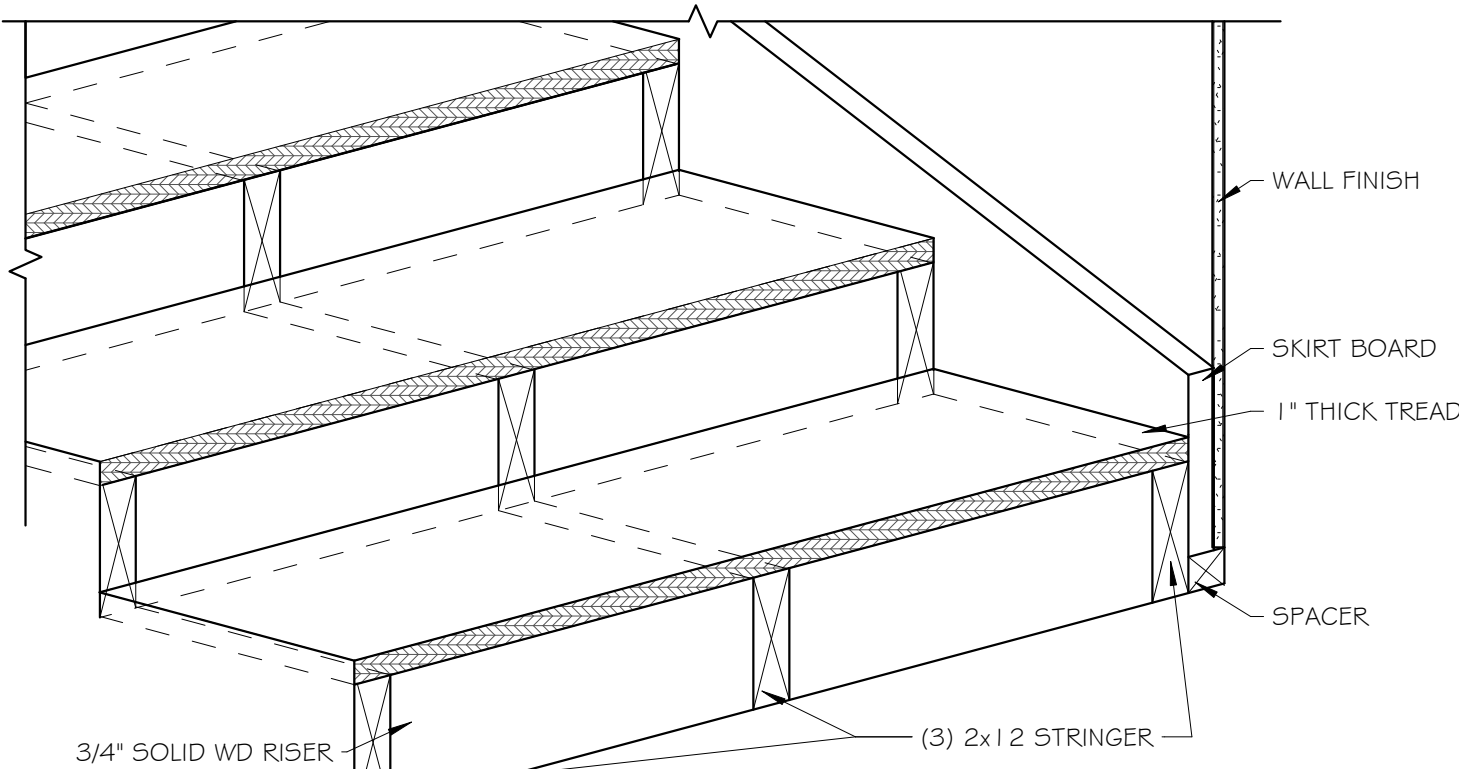
1. ALL INTERIOR PARTITIONS SHALL BE ASSEMBLY MA3, UNLESS NOTED OTHERWISE.
2. ALL DIMENSIONS ARE TO FACE OF GYPSUM WALL BOARD UNLESS NOTED OTHERWISE.
3. ALL PARTITIONS SHALL BE BRACED TO STRUCTURE ABOVE.
4. SEE SHEET C-1.1 FOR BUILDING CODE COMPLIANCE AND SPECIFICATIONS.
5. SEE ACCESSIBILITY COMPLIANCE ON SHEET C-1.2 FOR CODE COMPLIANCE AND STANDARDS.
6. GENERAL NOTES SHALL APPLY TO ALL CONTRACTORS. SEE SHEET A-1.0 FOR GENERAL NOTES & BUILDING ASSEMBLIES.
7. PROVIDE A MINIMUM OF 6" OF CLEAR SPACE AT THE HINGE SIDE OF DOORS, UNLESS NOTED OR INFEASIBLE.

FLOOR PLAN KEYNOTES

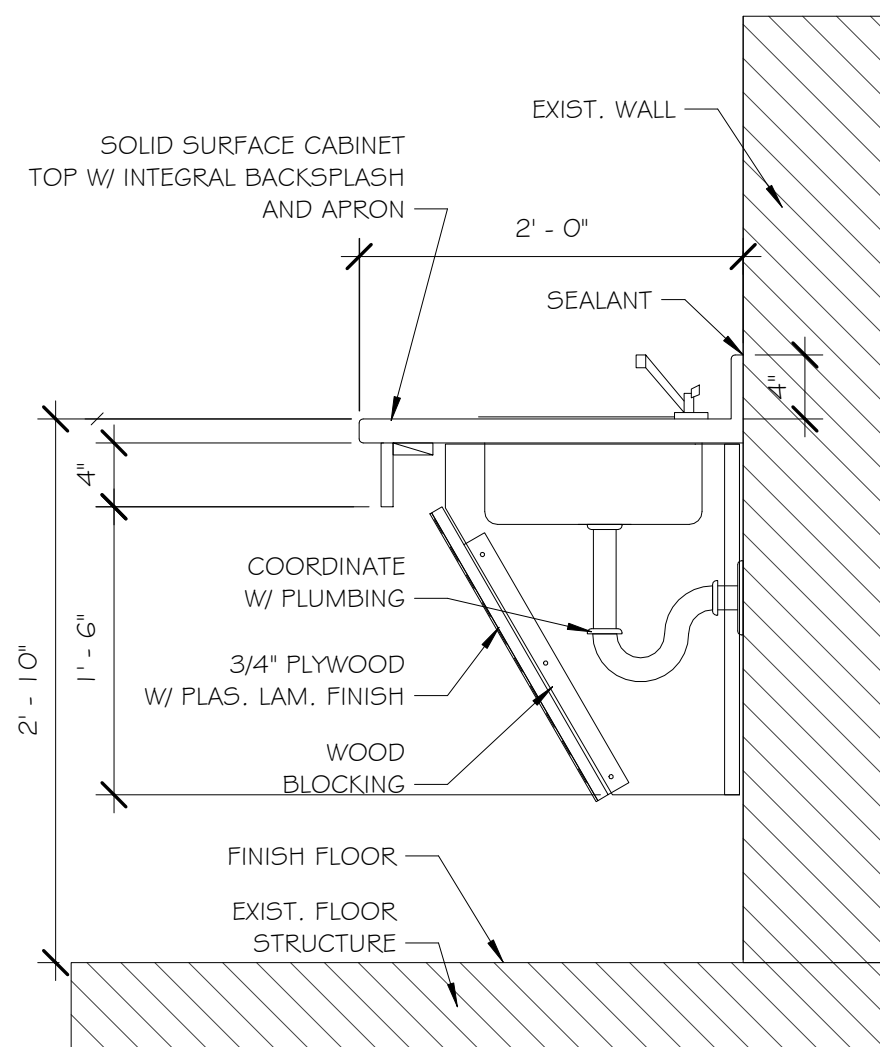
- 1 PROVIDE MOP SINK COMPLETE.
- 2 PROVIDE DRINKING FOUNTAIN COMPLETE.
- 3 BATHROOM TOILET AND URINAL PARTITIONS & STALLS TO BE BOBRICK BUDGET METROSERIES HPL, COLOR TBD, SELECTION BY OWNER FROM GENERAL COLOR PALLETTE.



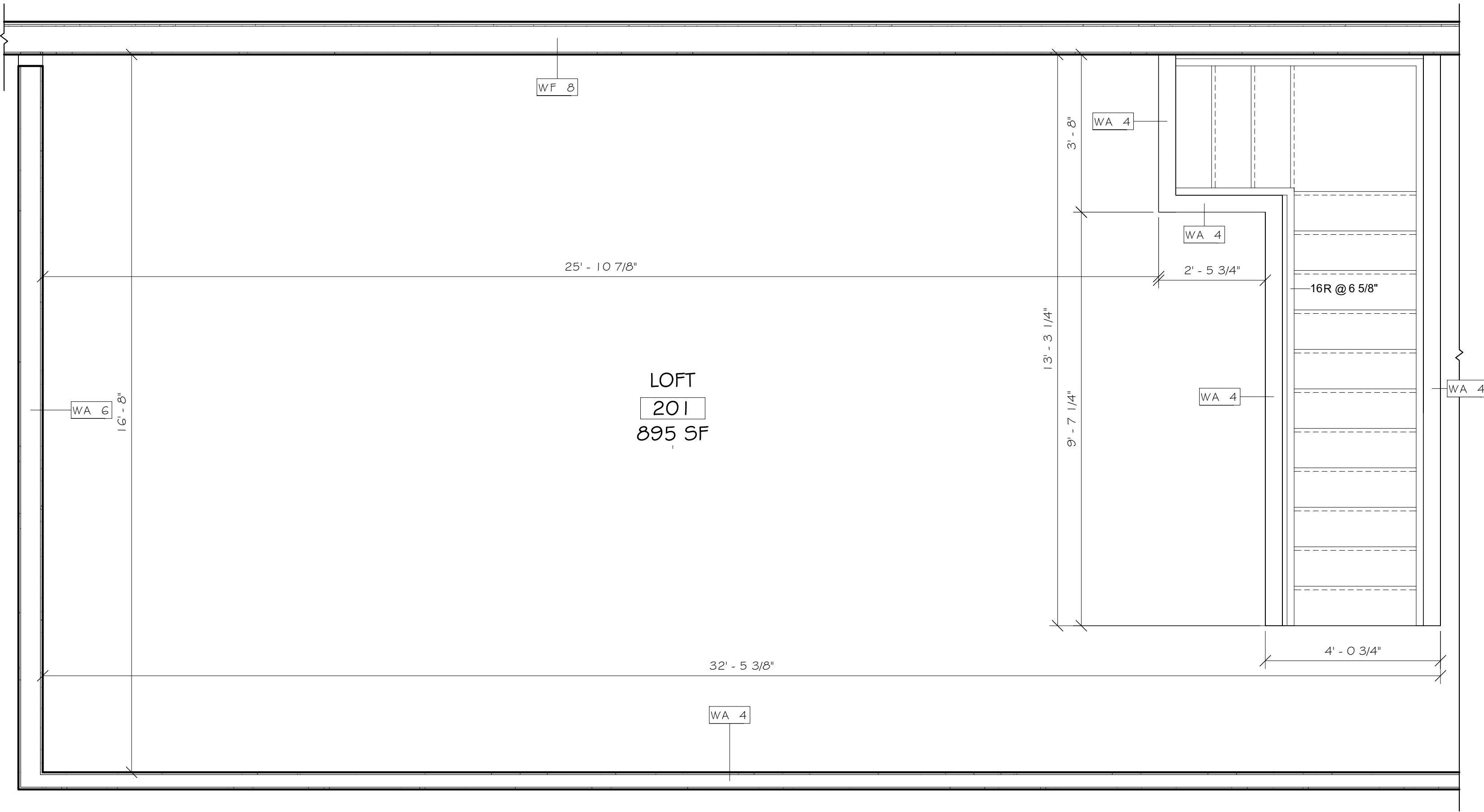
DETAIL - CERAMIC TILE WALL FINISH



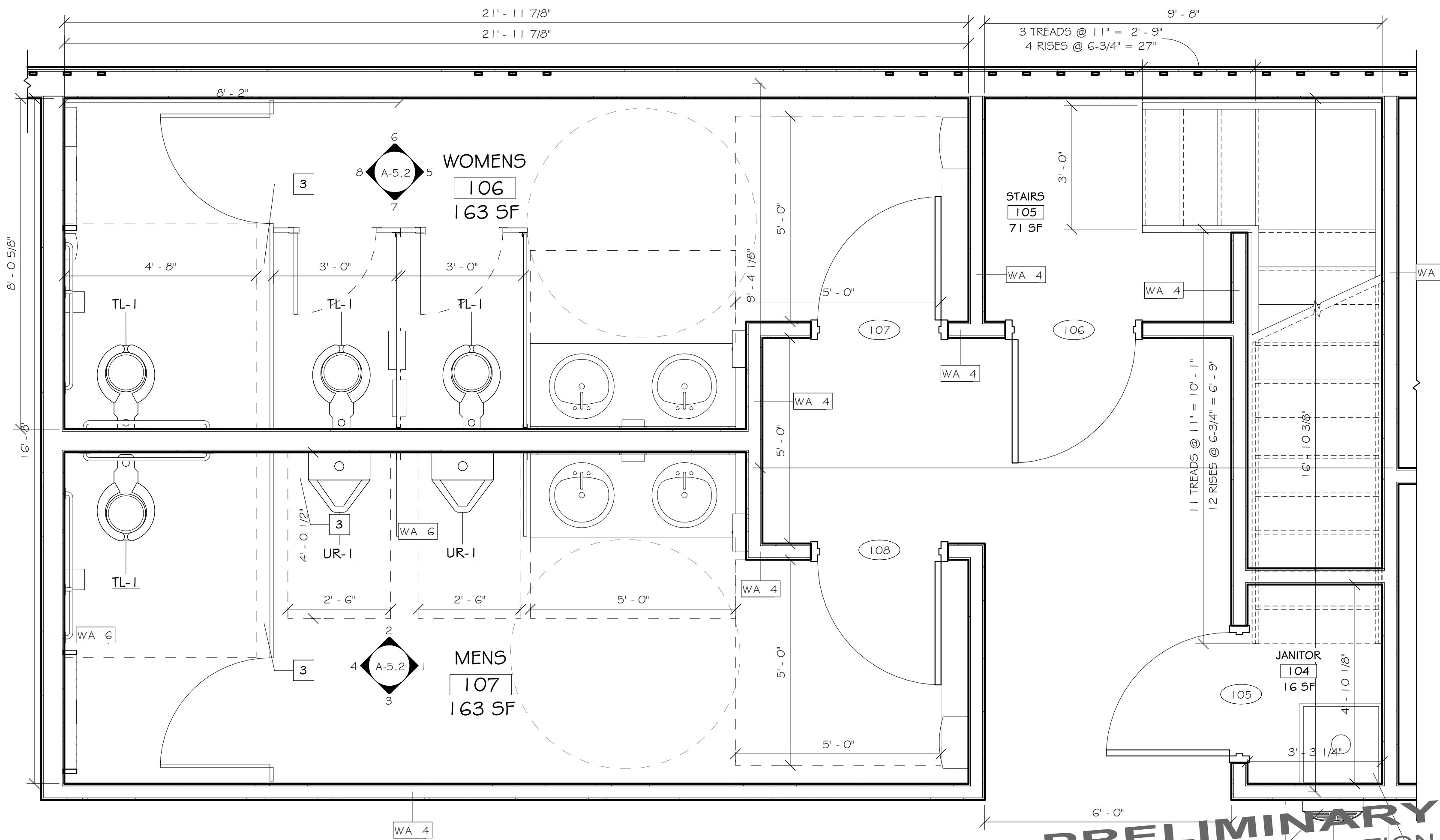
DETAIL - WD FRAMED STAIRS



DETAIL - ADA - LAVATORY SECTION DETAIL



LOFT CONSTRUCTION PLAN - CALLOUT (ADD ALTERNATE #1)



FIRST FLOOR CONSTRUCTION PLAN - CALLOUT (ADD ALTERNATE #1)

ISSUED / REVISIONS	DATE
0	11-10-25
1	
2	
3	
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PROJECT

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637-639 WINSOR AVE

ELMIRA, NY 14901

TITLE OF DRAWING

ENLARGED CONSTRUCTION PLANS (ADD ALTERNATE #1)

DRAWING SCALE

AS NOTED

ISSUE DATE:

10.28.2025

PROJECT NO.

25-086

DRAWING NO.

A-5.1

OWNER/CLIENT

FRIENDS OF ELMIRA CIVIL WAR PRISON CAMP

PROJECT

ELMIRA CIVIL WAR VISITOR CENTER

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ELMIRA, NY 14901

TITLE OF DRAWING

ENLARGED CONSTRUCTION PLANS (ADD ALTERNATE #1)

DRAWING SCALE

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ISSUE DATE:

10.28.2025

PROJECT NO.

25-086

DRAWING NO.

A-5.1

DRAWING SCALE

AS NOTED

ISSUE DATE:

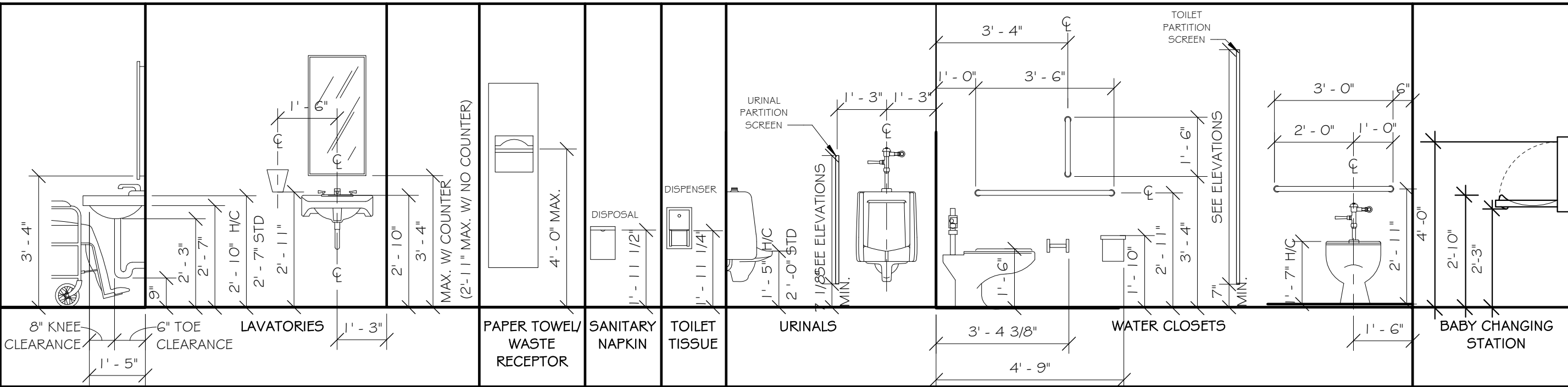
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RESTROOM ACCESSORY MOUNTING HEIGHTS

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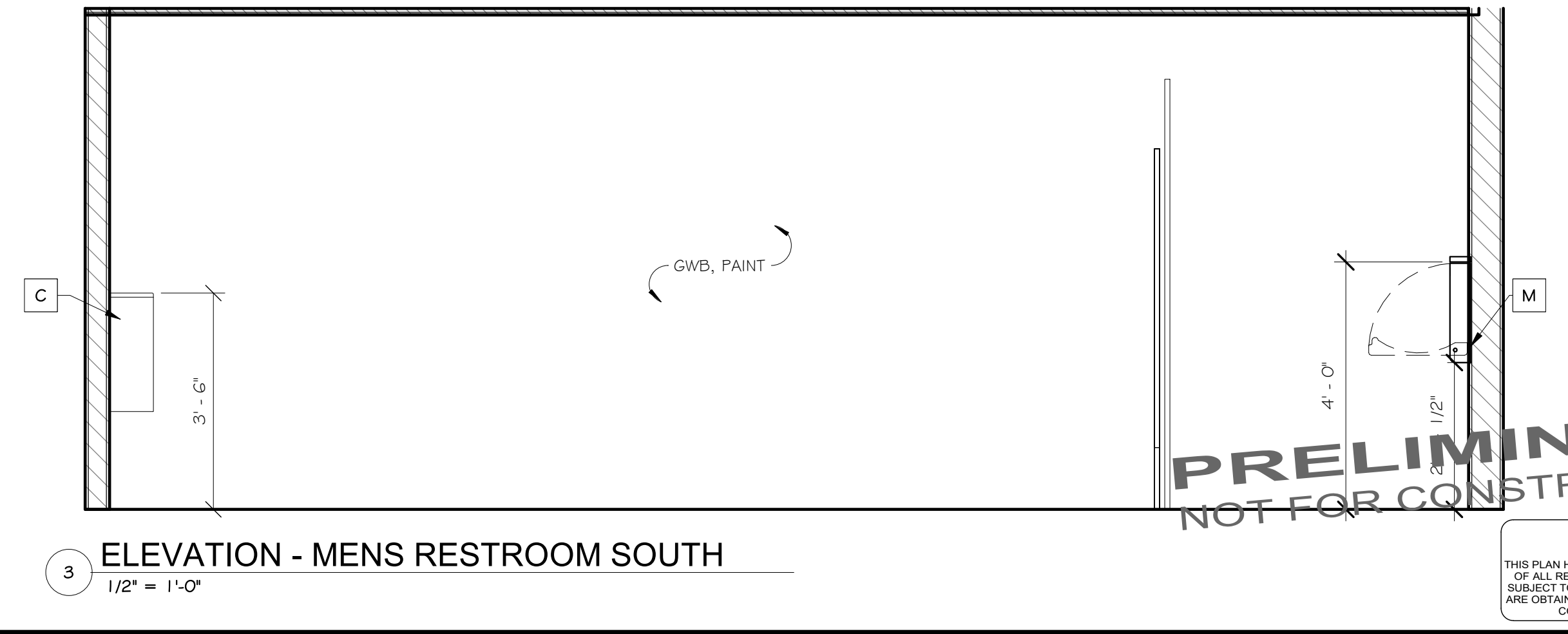
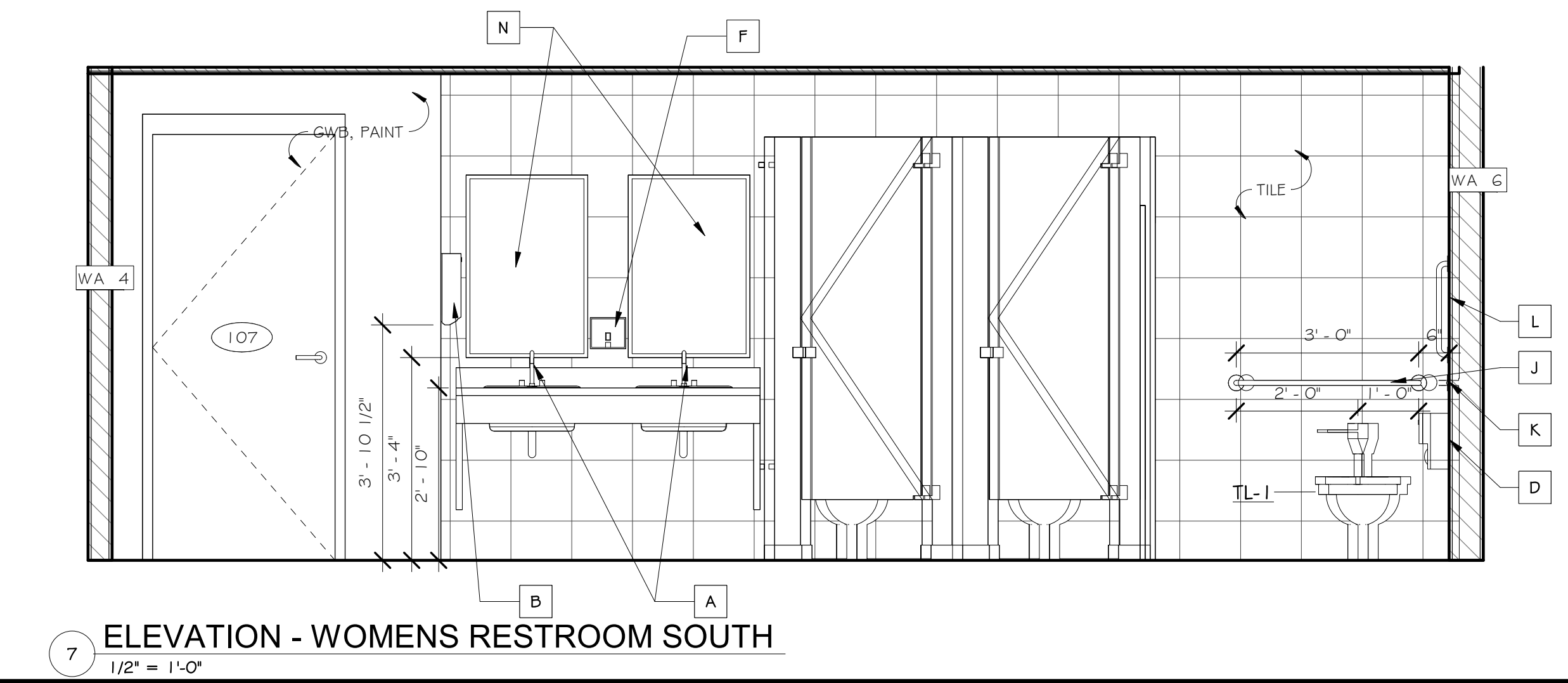
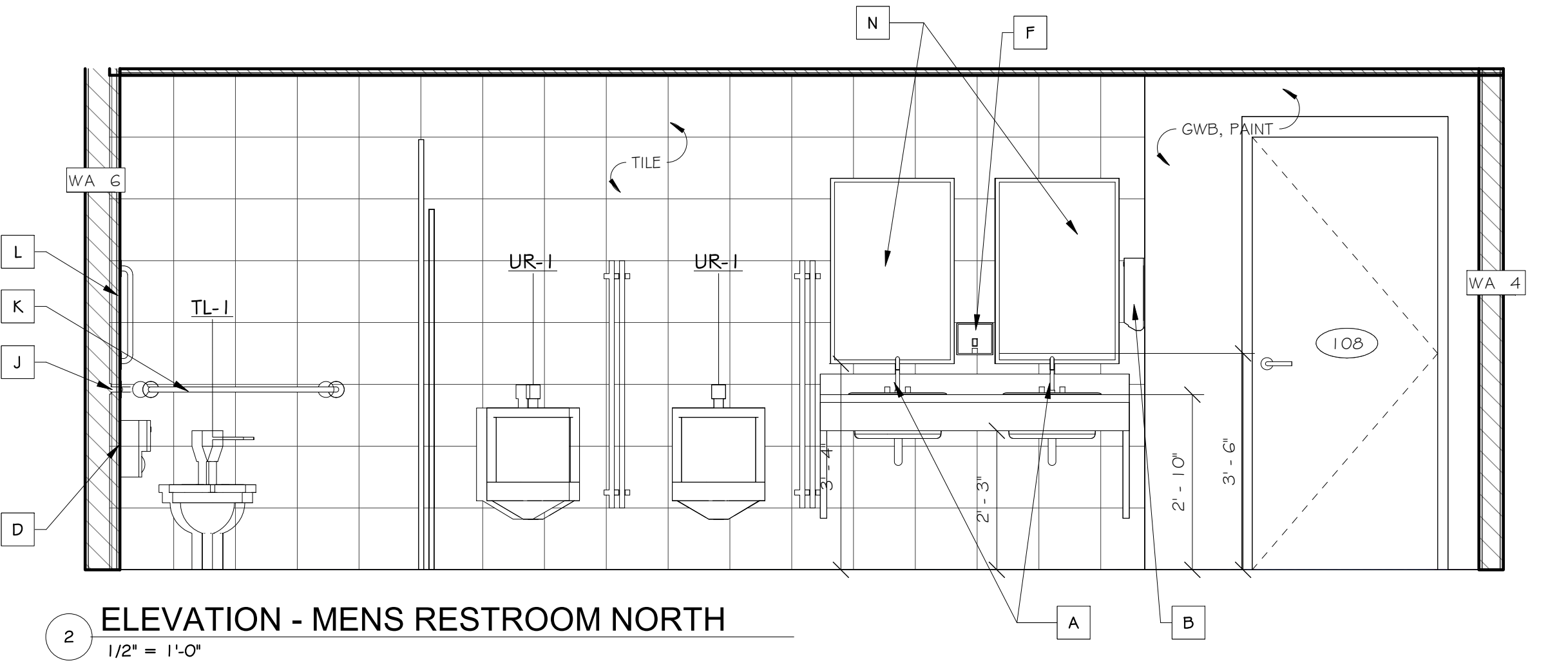
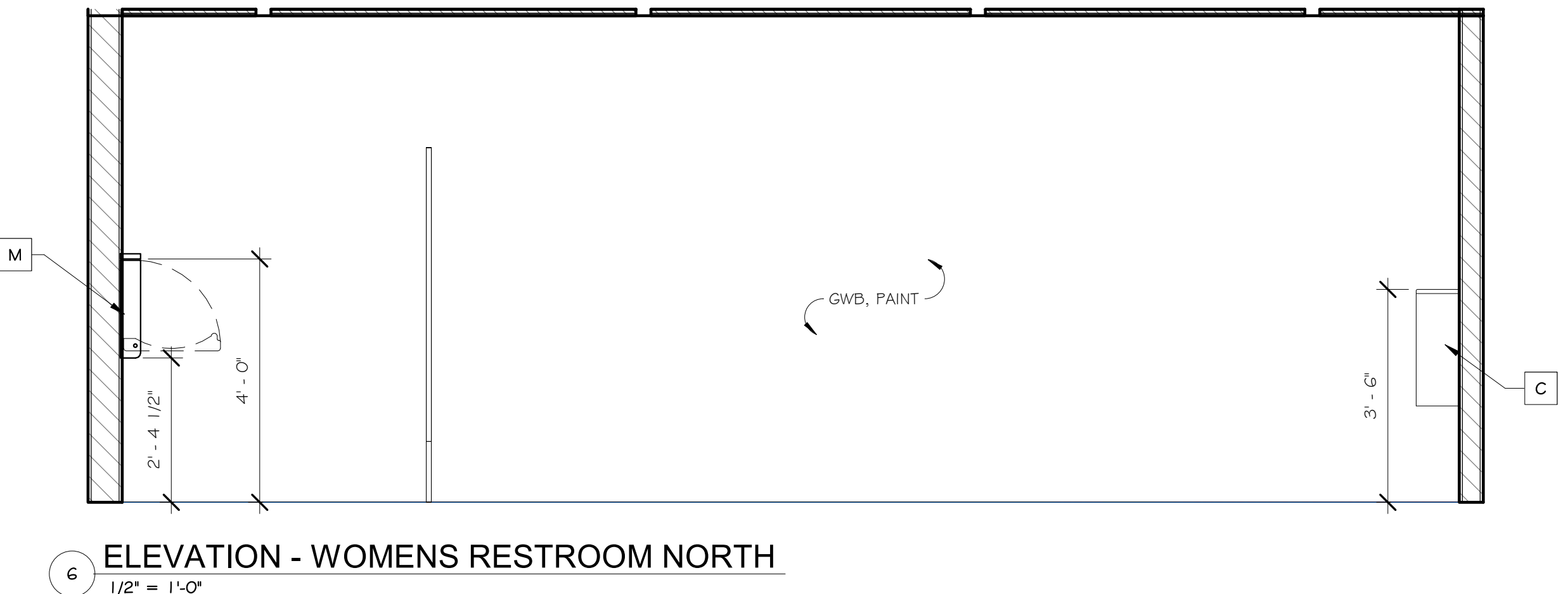
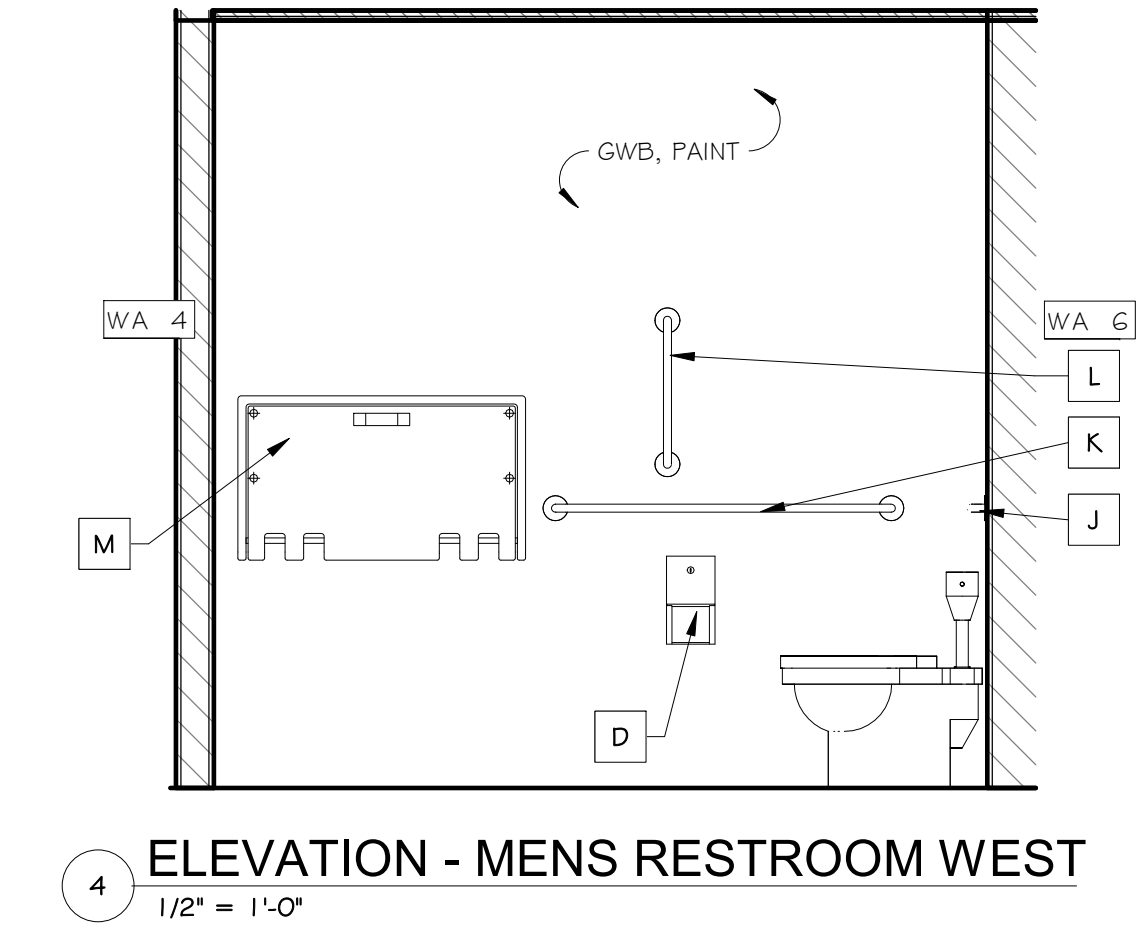
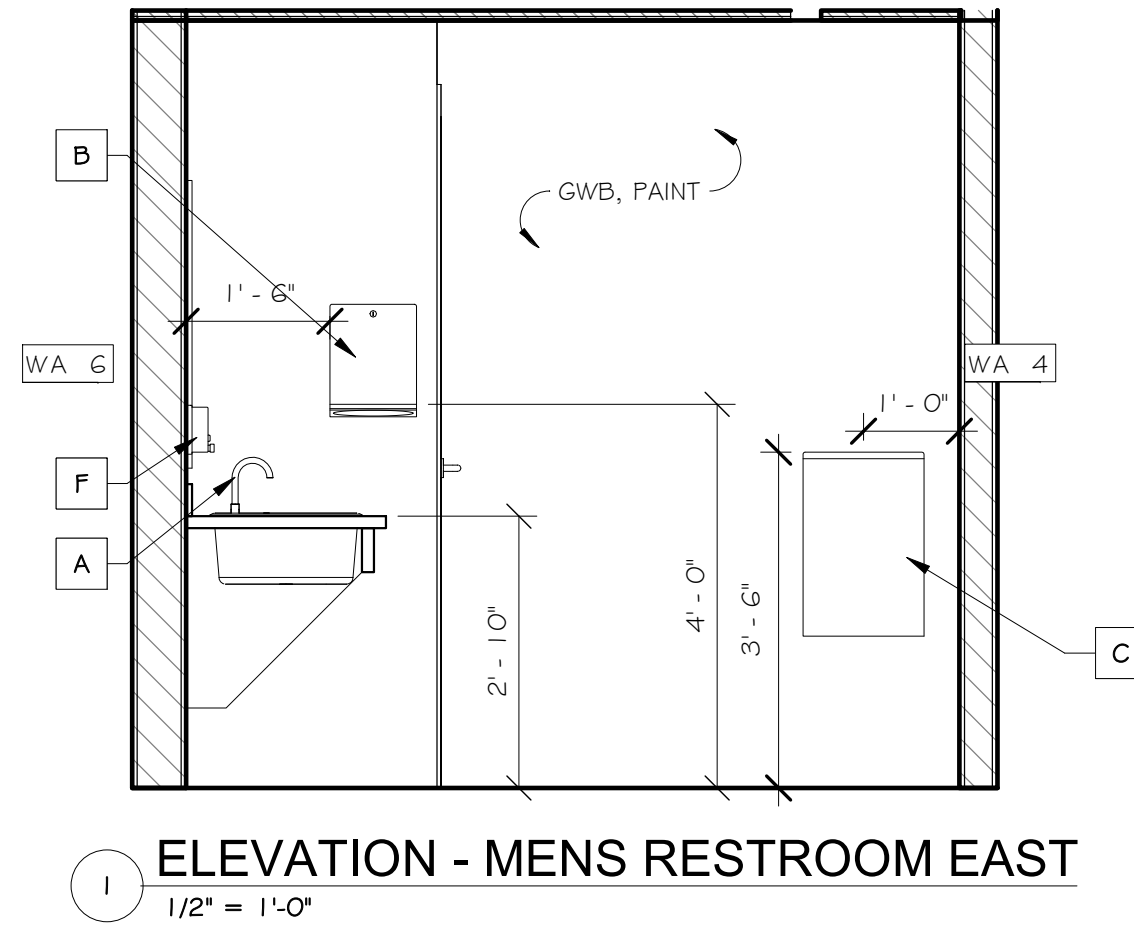
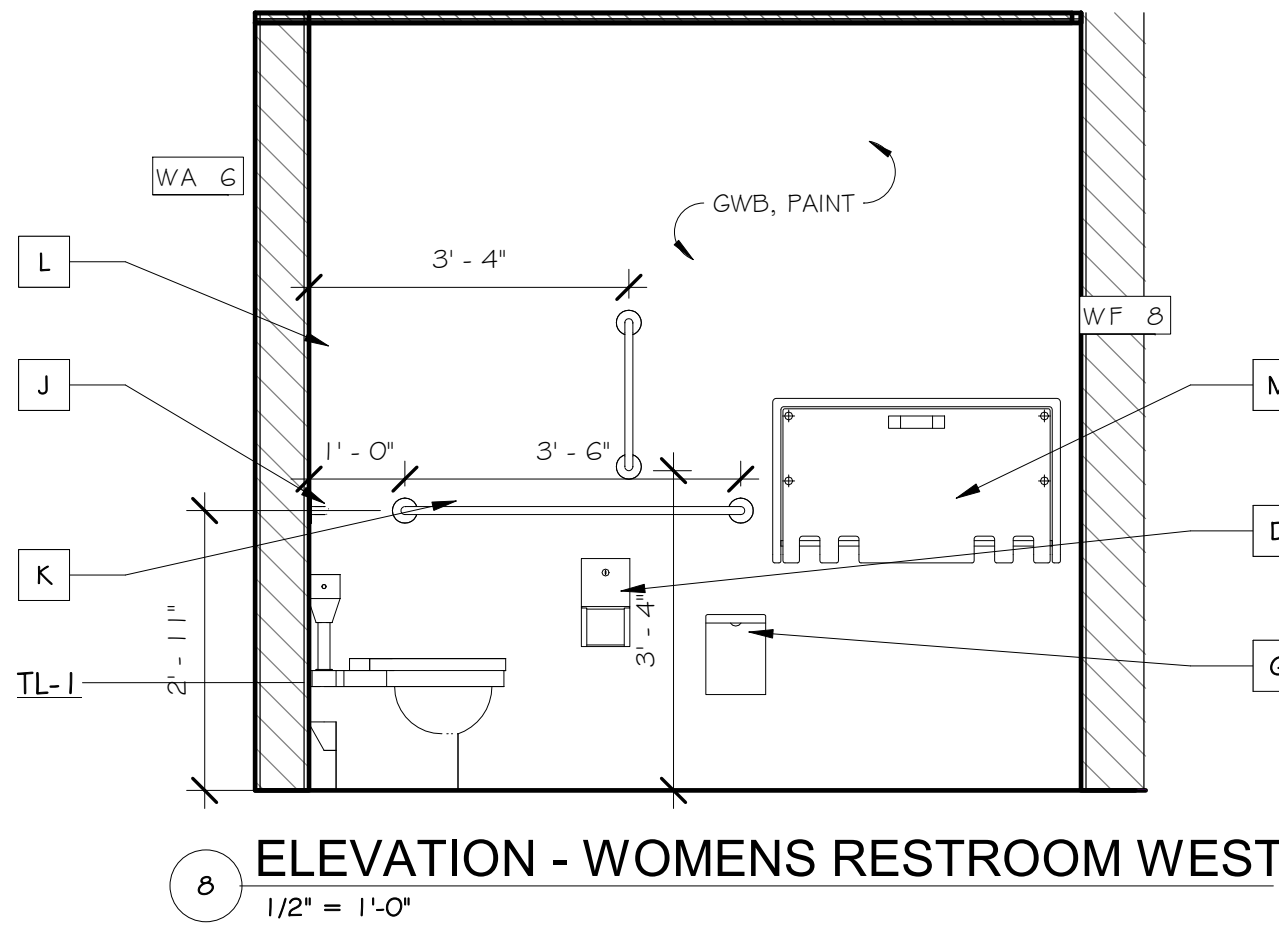
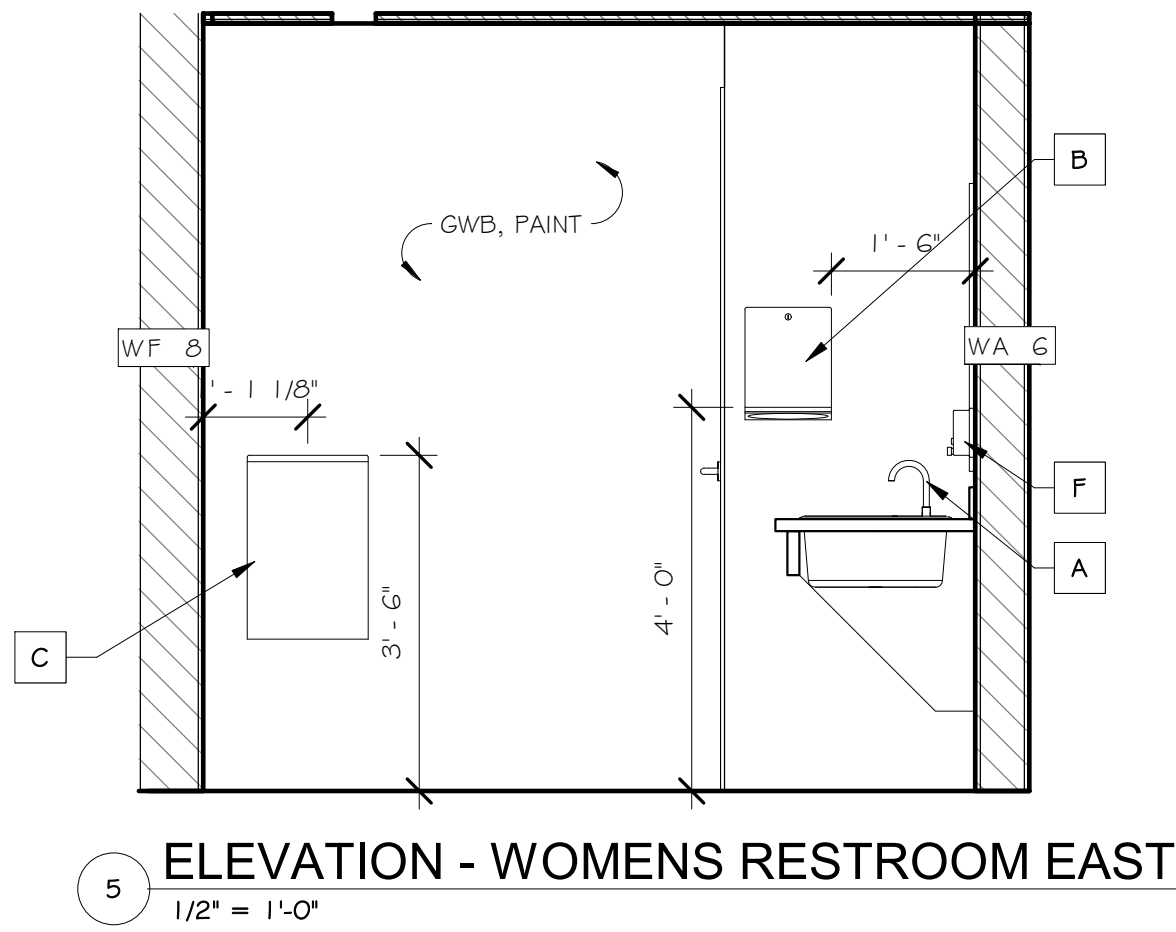
RESTROOM ACCESSORY SCHEDULE				
TYPE	DESCRIPTION	MANUFACTURER	MODEL	REMARKS
A	FAUCET	BOBRICK	K-97060-4	SINGLE-HANDLE BATHROOM SINK FAUCET, ADA COMPLIANT, STAINLESS STEEL POLISHED
B	PAPER TOWEL DISPENSER	BOBRICK	B-262	SURFACE MOUNTED, ADA COMPLIANT, STAINLESS STEEL POLISHED
C	WASTE RECEPTOR	BOBRICK	B-277	SURFACE MOUNTED, ADA COMPLIANT, CONTURA SERIES, STAINLESS STEEL POLISHED
D	TOILET PAPER DISPENSER-1	BOBRICK	B-4288	SURFACE MOUNTED MULTI-ROLL, ADA COMPLIANT, STAINLESS STEEL POLISHED
E	TOILET PAPER DISPENSER-2	BOBRICK	B-366	DUAL SIDED MULTI-ROLL PARTITION MOUNTED, STAINLESS STEEL POLISHED
F	SOAP DISPENSER	BOBRICK	B-4112	SURFACE MOUNTED, STAINLESS STEEL POLISHED
G	SANITARY NAPKIN DISPOSAL-1	BOBRICK	B-270	SURFACE MOUNTED, STAINLESS STEEL POLISHED
H	SANITARY NAPKIN DISPOSAL-2	BOBRICK	B-354	DUAL SIDED PARTITION MOUNTED, STAINLESS STEEL POLISHED
J	GRAB BAR - HORIZONTAL 36"	BOBRICK	B-9806x36	STAINLESS STEEL GRAB BARS WITH CONCEALED FLANGE, STAINLESS STEEL POLISHED
K	GRAB BAR - HORIZONTAL 42"	BOBRICK	B-9806x42	STAINLESS STEEL GRAB BARS WITH CONCEALED FLANGE, STAINLESS STEEL POLISHED
L	GRAB BAR - VERTICAL 18"	BOBRICK	B-9806x18	STAINLESS STEEL GRAB BARS WITH CONCEALED FLANGE, STAINLESS STEEL POLISHED
M	CHANGING TABLE	KOALA KARE	B311-SSRE	VERTICAL STAINLESS STEEL RECESSED-MOUNTED, STAINLESS STEEL POLISHED
N	MIRROR	BOBRICK	B-165 2436	24x36" CHANNEL FRAME STAINLESS STEEL POLISHED FINISH

GENERAL PLAN NOTES:

1. ALL INTERIOR PARTITIONS SHALL BE ASSEMBLY MA3, UNLESS NOTED OTHERWISE.
2. ALL DIMENSIONS ARE TO FACE OF GYPSUM WALL BOARD UNLESS NOTED OTHERWISE.
3. ALL PARTITIONS SHALL BE BRACED TO STRUCTURE ABOVE. SEE SHEET C-1.1 FOR BUILDING CODE COMPLIANCE AND SPECIFICATIONS.
4. SEE ACCESSIBILITY COMPLIANCE ON SHEET C-1.2 FOR CODE COMPLIANCE AND STANDARDS.
5. GENERAL NOTES SHALL APPLY TO ALL CONTRACTORS. SEE SHEET A-1.0 FOR GENERAL NOTES # BUILDING ASSEMBLIES.
6. PROVIDE A MINIMUM OF 6" OF CLEAR SPACE AT THE HINGE SIDE OF DOORS, UNLESS NOTED OR INFEASIBLE.

FLOOR PLAN KEYNOTES

1. PROVIDE MOP SINK COMPLETE.
2. PROVIDE DRINKING FOUNTAIN COMPLETE.
3. BATHROOM TOILET AND URINAL PARTITIONS & STALLS TO BE BOBRICK BUDGET METROSERIES HPL, COLOR TBD, SELECTION BY OWNER FROM GENERAL COLOR PALLETTE.



DATE	ISSUED / REVISIONS
11-10-25	ISSUED FOR BID
0	

PROJECT

ELMIRA CIVIL WAR VISITOR CENTER

637-639 WINSOR AVE

ELMIRA, NY 14901

PROJECT

ELMIRA CIVIL WAR PRISON CAMP

OWNER/CLIENT

11 E 14TH STREET • ELMIRA HEIGHTS, NEW YORK 14803

PH: (607) 757-4636 • WEB: AJH-DESIGN.COM

OWNER/CLIENT

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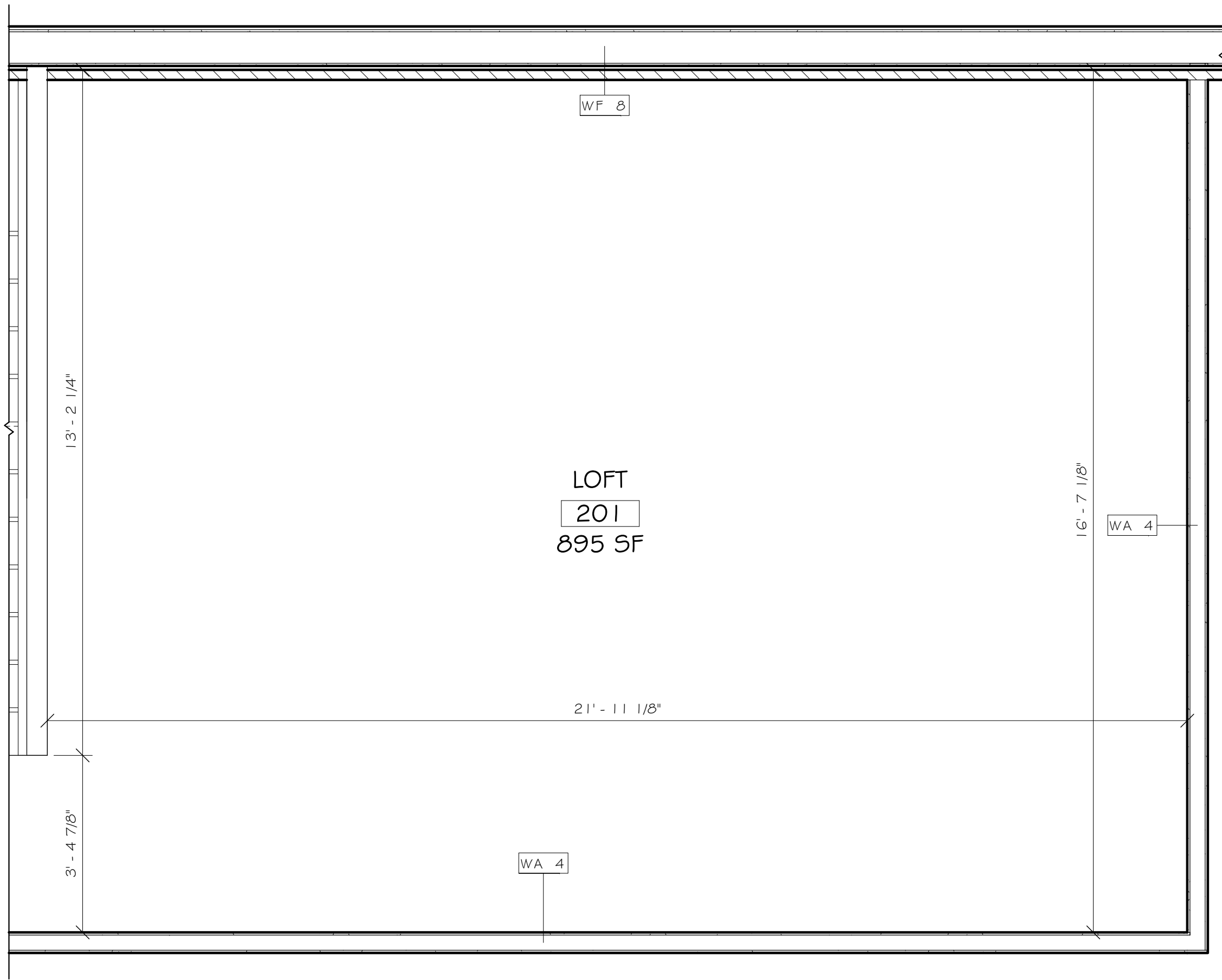
DRAWING SCALE	AS NOTED
ISSUE DATE:	10.28.2025
PROJECT NO.	25-086
DRAWING NO.	A-5.2

GENERAL PLAN NOTES:

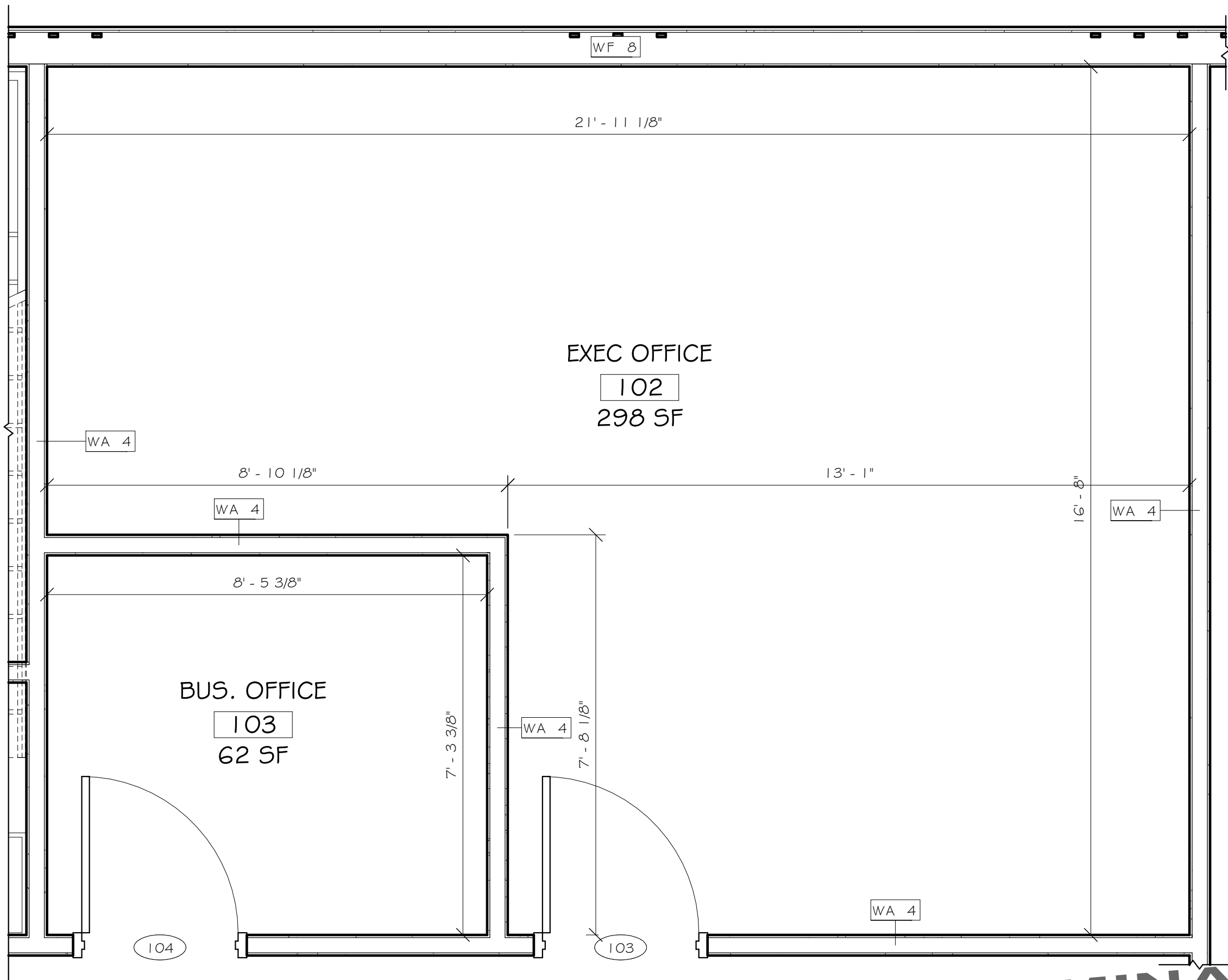
1. ALL INTERIOR PARTITIONS SHALL BE ASSEMBLY MA3, UNLESS NOTED OTHERWISE.
2. ALL DIMENSIONS ARE TO FACE OF GYPSUM WALL BOARD UNLESS NOTED OTHERWISE.
3. ALL PARTITIONS SHALL BE BRACED TO STRUCTURE ABOVE.
4. SEE SHEET C-1.1 FOR BUILDING CODE COMPLIANCE AND SPECIFICATIONS.
5. SEE ACCESSIBILITY COMPLIANCE ON SHEET C-1.2 FOR CODE COMPLIANCE AND STANDARDS
6. GENERAL NOTES SHALL APPLY TO ALL CONTRACTORS. SEE SHEET A-1.0 FOR GENERAL NOTES & BUILDING ASSEMBLIES.
7. PROVIDE A MINIMUM OF 6" OF CLEAR SPACE AT THE HINGE SIDE OF DOORS, UNLESS NOTED OR INFEASIBLE.

FLOOR PLAN KEYNOTES

- 1 PROVIDE MOP SINK COMPLETE.
- 2 PROVIDE DRINKING FOUNTAIN COMPLETE.
- 3 BATHROOM TOILET AND URINAL PARTITIONS & STALLS TO BE BOBRICK BUDGET METROSERIES HPL, COLOR TBD, SELECTION BY OWNER FROM GENERAL COLOR PALLETTE.



2 LOFT CONSTRUCTION PLAN - CALLOUT (ADD ALTERNATE #2)



1 FIRST FLOOR CONSTRUCTION PLAN - CALLOUT (ADD ALTERNATE #2)

PRELIMINARY
NOT FOR CONSTRUCTION

NOT APPROVED
THIS PLAN HAS NOT RECEIVED FINAL APPROVAL OF ALL REVIEWING AGENCIES. THIS PLAN IS SUBJECT TO REVISIONS UNTIL ALL APPROVALS ARE OBTAINED AND SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES.

ISSUED / REVISIONS	DATE
0 ISSUED FOR BID	11-10-25

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OWNER/CLIENT

FRIENDS OF ELMIRA CIVIL WAR PRISON CAMP



PROJECT

ELMIRA CIVIL WAR VISITOR CENTER
637-639 WINSOR AVE
ELMIRA, NY 14901

TITLE OF DRAWING

ENLARGED CONSTRUCTION PLANS (ADD ALTERNATE #2)

DRAWING SCALE

AS NOTED

ISSUE DATE:

10.28.2025

PROJECT NO.

25-086

DRAWING NO.

A-5.3

DOOR SCHEDULE																	
TAG	DOOR							FRAME						FIRE RATING	HARDWARE SET	REMARKS	
	SIZE			TYPE	MATERIAL	FINISH	GLASS	FRAME TYPE	FRAME MAT	FRAME FINISH	DETAIL						
	WIDTH	HEIGHT	THK														
1 01	6' - 0"	7' - 0"	0' - 1 3/4"	1	ALUM	PNT-I		A	ALUM	PNT-I					---	1	EXTERIOR: STOREFRONT ENTRY - DOUBLE DOORS
1 02	3' - 6"	7' - 0"	0' - 1 3/4"	2	ALUM	PNT-I		B	ALUM	PNT-I					---	2	EXTERIOR: STOREFRONT ENTRY - SINGLE DOOR
1 03	3' - 0"	7' - 0"	0' - 1 3/4"	3	WD	STN-I	---	C	WD	STN-I					---	3	INTERIOR: FLUSH PANEL - SINGLE DOOR
1 04	3' - 0"	7' - 0"	0' - 1 3/4"	3	WD	STN-I	---	C	WD	STN-I					---	3	INTERIOR: FLUSH PANEL - SINGLE DOOR
1 05	3' - 0"	7' - 0"	0' - 1 3/4"	3	WD	STN-I	---	C	WD	STN-I					---	3	INTERIOR: FLUSH PANEL - SINGLE DOOR
1 06	3' - 0"	7' - 0"	0' - 1 3/4"	3	WD	STN-I	---	C	WD	STN-I					---	3	INTERIOR: FLUSH PANEL - SINGLE DOOR
1 07	3' - 0"	7' - 0"	0' - 1 3/4"	4	WD	STN-I	---	C	WD	STN-I					---	4	INTERIOR: FLUSH PANEL W/ LOUVER - SINGLE DOOR
1 08	3' - 0"	7' - 0"	0' - 1 3/4"	4	WD	STN-I	---	C	WD	STN-I					---	4	INTERIOR: FLUSH PANEL W/ LOUVER - SINGLE DOOR

CURTAIN WALL SCHEDULE														
TYPE	MARK	SIZE	SIZE	TYPE	MAT	GLASS	THERMAL	DETAILS	DETAILS	DETAILS	COLOR	MFR	COUNT	REMARKS
		WIDTH	HEIGHT					HEAD	JAMB	SILL				

ROOM FINISH SCHEDULE															
ROOMS		FLOOR MAT	BASE MAT	WALLS								CEILINGS			NOTES
RM. NO.	ROOM NAME			NORTH		EAST		SOUTH		WEST		MAT	FIN	HEIGHT	
				MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN				
101	MAIN AREA	CONC.-1	---	GWB-1	PNT-1	GWB-1	PNT-1	GWB-1	PNT-1	GWB-1	PNT-1	GWB-1	PNT-1	UNDERSIDE ROOF	
102	EXEC OFFICE	CONC.-1	---	GWB-1	PNT-1	GWB-1	PNT-1	GWB-1	PNT-1	GWB-1	PNT-1	GWB-1	PNT-1	8'-0"	
103	BUS. OFFICE	CONC.-1	---	GWB-1	PNT-1	GWB-1	PNT-1	GWB-1	PNT-1	GWB-1	PNT-1	GWB-1	PNT-1	8'-0"	
104	JANITOR	CONC.-2	VB-1	GWB-2	PNT-1 & FRP-1 £	GWB-2	PNT-1 & FRP-1 £	GWB-2	PNT-1 & FRP-1 £	GWB-2	PNT-1 & FRP-1 £	GWB-1	PNT-1	8'-0"	
105	STAIRS	CONC.-1	---	GWB-1	PNT-1	GWB-1	PNT-1	GWB-1	PNT-1	GWB-1	PNT-1	GWB-1	PNT-1	UNDERSIDE ROOF	
106	WOMENS	CONC.-2	CT.B-1	GWB-2	PNT-1	GWB-2	PNT-1	GWB-2	PNT-1	GWB-2	PNT-1	GWB-1	PNT-1	8'-0"	
107	MENS	CONC.-2	CT.B-1	GWB-2	PNT-1	GWB-2	PNT-1	GWB-2	PNT-1	GWB-2	PNT-1	GWB-1	PNT-1	8'-0"	
201	LOFT	PLY.-1	---	PNT-1	---	GWB-1	---	GWB-1	---	GWB-1	---	GWB-1	PNT-1	UNDERSIDE ROOF	

1. COORDINATE PAINT COLOR SELECTION WITH OWNER.
2. ALL NEWLY PAINTED SURFACES SHALL RECEIVE (1) COAT PRIMER AND (2) FINISH COATS.
3. ALL GWB SOFFITS SHALL BE PAINTED WITH SW CEILING PAINT.

The image contains three separate elevation drawings of door types, each with its own set of dimensions and descriptive text.

- TYPE A**
EXTERIOR -
STOREFRONT ENTRY
DOUBLE DOORS
The drawing shows a side elevation of a double door. The total width is dimensioned as 6' - 0". The height is dimensioned as 7' - 0". There are 2" wide side panels on each side of the door frame.
- TYPE B**
EXTERIOR -
STOREFRONT ENTRY
SINGLE DOOR
The drawing shows a side elevation of a single door. The total width is dimensioned as 3' - 0". The height is dimensioned as 7' - 0". There are 2" wide side panels on each side of the door frame.
- TYPE C**
INTERIOR -
FLUSH PANEL
SINGLE DOOR
The drawing shows a side elevation of a single door. The total width is dimensioned as 3' - 0". The height is dimensioned as 7' - 0". There are 2" wide side panels on each side of the door frame.

PANIC DEVICES AT EGRESS DOORS (TYP)

TYPE 1
EXTERIOR -
STOREFRONT ENTRY
DOUBLE DOORS

TYPE 2
EXTERIOR -
STOREFRONT ENTRY
SINGLE DOOR

TYPE 3
INTERIOR -
FLUSH PANEL
SINGLE DOOR

TYPE 4
INTERIOR -
FLUSH PANEL WITH LOUVER
SINGLE DOOR
*TYPICAL COMMERCIAL
RESTROOM

TYPE A
LARGE CURTAIN WALL

TYPE B
SMALL CURTAIN WALL
* CURTAIN WALLS AT RESTROOM SHALL HAVE INTERIOR FILM

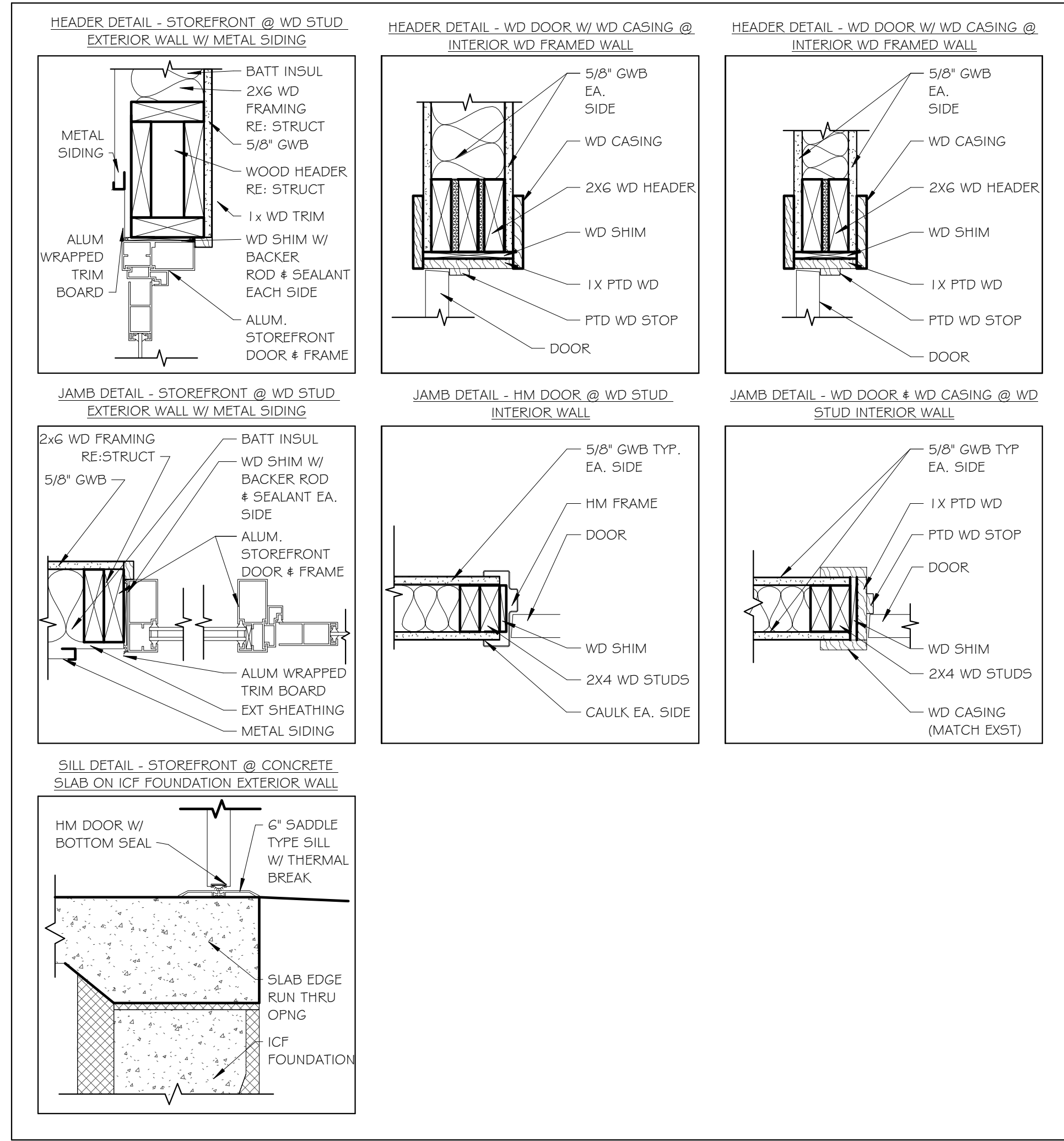
HARDWARE SET 1 (EXTERIOR - DOUBLE DOOR)

- (2) 1 1/2 PAIR OF HINGES
- (2) PANIC EXIT DEVICE (INTERIOR)
- KEYED CYLINDER LOCKSET
- SURFACE-MOUNTED CLOSER
- SURFACE-MOUNTED STOP AND BUMP
- SILENCERS
- DOOR GASKETING
- ADA THRESHOLD
- (2) EXTERIOR PULL HANDLES
- (2) KICK PLATES

HARDWARE SET 3 (OFFICES, JANITOR, & STAIRS)

- 1 1/2 PAIR OF HINGES
- PRIVACY LOCKSET
- SURFACE-MOUNTED CLOSER
- SURFACE-MOUNTED STOP AND BUMP
- SILENCERS
- LEVER HANDLES

1. CURTAIN WALL ASSEMBLY SHALL HAVE A WATER-TIGHT SEAL. THE EXTERIOR SHALL BE CAULKED WITH MANUFACTURER APPROVED CAULK, COLOR SHALL MATCH WINDOW.
2. ALL GLAZING LOWER THAN 1'-6" SHALL BE TEMPERED.
3. ALL CURTAIN WALL SHIMS SHALL BE LOW EXPANSION FOAM.



2

INTERIOR FINISH & MATERIAL SCHEDULE						
KEY	MATERIAL	DESCRIPTION			LOCATION	ADDITIONAL INFORMATION
CONC.-1	CONCRETE SEALED	MANUFACTURER	STYLE: COLOR	DIMENSION		
CONC.-2	CONCRETE W/ EPOXY FINISH	SHERWIN WILLIAMS	RESUFLO DECO QUARTZ SD (COLOR TBD - SELECTION BY OWNER FROM GENERAL COLOR PALETTE)		MAIN AREA, STAIRS, & OFFICES	
CT-B-1	CERAMIC TILE - BASE-1	DALTILE	COLOR: TBD - SELECTION BY OWNER FROM GENERAL COLOR PALETTE		RESTROOMS & JANITOR CLOSET	
CT-C-1	CERAMIC TILE - CAP-1	DALTILE	COLOR: TBD - SELECTION BY OWNER FROM GENERAL COLOR PALETTE		RESTROOM WET WALL	
CT-W-1	CERAMIC TILE - WALL-1	DALTILE	COLOR: TBD - SELECTION BY OWNER FROM GENERAL COLOR PALETTE		RESTROOM WET WALL	
D-1	DOOR-1	404 VT DOOR TYPE, PC-HPDL-5 HIGH PRESSURE DECORATIVE LAMINATE BONDED PARTICLE BOARD CORE 5-PLY CONSTRUCTION, NO-RATED OR 20 MIN	FINISH: PLASTIC LAMINATE, NEVAMAR WZ2001 SANTA ROSA PLUM TREE, MATTE FINISH			***RATING AS REQUIRED
FRP-1	FIBER REINFORCED POLYMER PANELS	PANOLAM SURFACE SYSTEMS	COLOR/FINISH: TBD - SELECTION BY OWNER FROM GENERAL COLOR PALETTE	UP TO 4'-0" A.F.F.	JANITOR CLOSET	
GWB-1	GYPSUM WALL BOARD					
KP-1	DOOR KICK PLATE	ACROVYN	1 GGA 5/5 KICK PLATE/ 304 STAINLESS STEEL ALLOY	1/6 GAUGE		CONTACT: CONSTRUCTION SPECIALTIES
LTG-1	LIGHTING					
P-1	PRIMER	SHERWIN WILLIAMS	MULTI-PURPOSE INTERIOR/ EXTERIOR LATEX PRIMER/ SEALER		GENERAL WALLS, CEILING SOFFITS, COLUMNS	
PLY-1	PLYWOOD				LOFT FLOORING	
PNT-1	PAINT-1				ALL WALLS	
SS-1	SOLID SURFACE-1	WILSONART	QUARTZ - COLOR TBD - SELECTION BY OWNER FROM GENERAL COLOR PALETTE		RESTROOM COUNTERS	
VB-1	VINYL BASE-1	JOHNSONITE	COLOR: TBD - SELECTION BY OWNER FROM GENERAL COLOR PALETTE			

THIS PLAN HAS NOT RECEIVED FINAL APPROVAL OF ALL REVIEWING AGENCIES. THIS PLAN IS SUBJECT TO REVISIONS UNTIL ALL APPROVALS ARE OBTAINED AND SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES.

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OWNER/CLIENT

FRIENDS OF ELMIRA CIVIL WAR PRISON CAMP

PROJECT
ELMIRA CIVIL WAR VISITOR CENTER
637-639 WINSOR AVE
ELMIRA, NY 14901

TITLE OF DRAWING

TITLE OF DRAWING

DRAWING SCALE
AS NOTED
ISSUE DATE:
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PROJECT NO.
25-086
DRAWING NO.

HVAC GENERAL NOTES

- 1. COORDINATE HVAC AND PLUMBING WORK WITH ALL OTHER TRADES.
- 2. ALL DIMENSIONS AND PIPE SIZES ARE IN INCHES, UNLESS OTHERWISE NOTED.
- 3. INSTALL DUCTWORK IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS. PRESSURE CLASSIFICATION OF DUCT WORK IS TO BE AS FOLLOWS: a. SUPPLY 1", b. RETURN 1", c. EXHAUST 1" PROVIDE TURNING VANES IN ALL MITERED ELBOWS, OR PROVIDE ELBOWS WITH CENTER LINE.
- 4. INSTALL ALL WORK IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
- 5. REFLECTED CEILING PLANS FOR ANY AND ALL AREAS PREPARED BY THE ARCHITECT SHOWING THE LOCATION OF AIR INTAKES AND OUTLETS SHALL TAKE PRECEDENCE OVER THE LOCATION OF THOSE SHOWN ON THE HVAC DRAWINGS OF THIS CONTRACT SET OF DRAWINGS. THE CONTRACTOR SHALL INSTALL THE AIR INTAKES AND OUTLETS IN ANY GIVEN AREA TO AGREE WITH THE ARCHITECTS REFLECTED CEILING PLANS.
- 6. ALL SCHEDULED MOTOR DATA AND ELECTRICAL CHARACTERISTICS ARE MAXIMUM. WHERE EQUIPMENT IS SUPPLIED WITH TARGET MOTORS OR ELECTRICAL CHARACTERISTICS THE HC IS TO COORDINATE WITH THE EC AND PAY FOR ALL CHANGES AS A RESULT INCREASED CAPACITY.
- 7. INSTALL ALL EQUIPMENT AND MATERIALS IN STRICT ACCORDANCE WITH RESPECTIVE MANUFACTURERS WRITTEN INSTRUCTIONS.
- 8. ALL EQUIPMENT - MECHANICAL CONTRACTOR MUST REVIEW THE EQUIPMENT SCHEDULES, SPECIFICATIONS, AND DRAWINGS IN ALL CONTRACT DOCUMENTS AND SUBSEQUENT SHOP DRAWINGS. PROVIDE ALL LABOR AND MATERIALS FOR A COMPLETE AND OPERABLE SYSTEM AS PART OF THE CONTRACT. FAILURE TO REVIEW DOES NOT RELIEVE THE CONTRACTOR OF FULFILLING THE CONTRACTUAL OBLIGATIONS.
- 9. REFER TO ARCHITECTURAL DRAWINGS AND SHOP DRAWINGS FOR FINAL EXACT LOCATIONS AND CONNECTIONS AND FOR ALL WORK REQUIRED FOR EQUIPMENT NOT FURNISHED UNDER THIS CONTRACT.
- 10. MECHANICAL CONTRACTOR TO FIELD MEASURE AND/OR REVIEW ALL PERTINENT DOCUMENTS TO ASSURE LAYOUTS SHOWN ON HVAC DRAWINGS ARE COMPATIBLE WITH AVAILABLE SPACE AND WORK OF OTHER TRADES. DRAWINGS ARE IN ACCORDANCE WITH LAYOUTS SHOWN ON GENERAL CONTRACT ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION PRIOR TO SUBMITTING EQUIPMENT SHOP DRAWINGS.
- 11. MECHANICAL CONTRACTOR IS CAUTIONED THAT LIMITED SPACE IS AVAILABLE IN CEILING CAVITY. ALL DUCTWORK MUST BE COORDINATED WITH SPACE AND EQUIPMENT. PROVIDE ALL OFFSETS REQUIRED TO ACCOMMODATE WORK OF OTHER TRADES.
- 12. PROVIDE FLEXIBLE CONNECTIONS AT UNIT SUPPLY AND RETURN CONNECTIONS. OFFSET AND TRANSITION SUPPLY AND RETURN DUCTWORK AS REQUIRED TO AVOID STRUCTURE. PROVIDE MITERED ELBOWS WITH TURNING VANES AT BOTTOM OF SUPPLY AND RETURN DUCT DROPS.
- 13. 4" HIGH CONCRETE HOUSEKEEPING PAD BY MECHANICAL CONTRACTOR.
- 14. DO NOT INSTALL ANYTHING WITHIN THE EQUIPMENT TROUBLESHOOTING SPACE. COORDINATE WITH OTHER TRADES TO KEEP THIS SPACE CLEAR. COORDINATE WITH TRUSSES IN SUCH A MANNER THAT EQUIPMENT SHALL CLEAR TRUSS WORK.
- 15. DUCTWORK TO BE INSULATED WITH FIBERGLASS FLEXIBLE BLANKET INSULATION UNLESS OTHERWISE NOTED ON DRAWING OR DETAILS. JACKETS SHALL BE NOTED ON THE DRAWINGS.
- 16. FOR ALL BRANCH DUCT CONNECTIONS TO MAIN TRUNK, PROVIDE 45 DEGREE TRANSITION FITTING OR CONICAL TAP FOR ROUND DUCT. BUTT FITTINGS ARE NOT PERMITTED. PROVIDE MANUAL VOLUME DAMPER WITH LOCKING QUADRANT IN ALL BRANCH RUN OUTS TO GRILLES AND DIFFUSER.
- 17. PROVIDE TURNING VANES IN ALL MITERED ELBOWS, OR PROVIDE ELBOWS WITH CENTERLINE RADIUS EQUAL TO 1.5 TIMES DUCT WIDTH.
- 18. SLEEVE AND SEAL ALL PIPE, OR DUCT PENETRATIONS OF WALLS AND FLOORS. PACK VOID BETWEEN PIPE, OR DUCT AND SLEEVE WITH INSULATION IN NON-RATED WALLS AND FLOORS. PACK VOID BETWEEN PIPE, OR DUCT AND SLEEVE WITH INSULATION IN FIRE-RATED WALLS AND FLOORS, APPLY INTUMESCENT FIRE SAFING COMPOUND AT PENETRATION, MAINTAINING INTEGRITY AND RATING OF FIRE SEPARATION. SLEEVES THROUGH FLOORS SHALL EXTEND 2" ABOVE FLOOR, BE GROUTED INTO PLACE AND WATERPROOFED. PIPING THROUGH EXTERIOR WALLS SHALL BE SLEEVED AND SEALED WEATHER TIGHT.
- 19. AS APPLICABLE AND AS INDICATED, PIPE DROPS ARE TO BE ON WALL, IN WALL, OR IN ENCLOSED SPACE PROVIDED BY THE GENERAL CONTRACTOR.
- 20. CONCEALED PIPING DROPS IN WALLS OR ENCLOSED SPACES SHALL BE INSULATED WITH 1/2" THICK UN-SLIT FLEXIBLE UNICELLULAR INSULATION.
- 21. IF, FOR ANY REASON, IT IS NECESSARY TO RUN PIPING THROUGH FINISHED AREAS IN A MANNER THAT PIPING WOULD BE VISIBLE, THE CONTRACTOR WILL BE RESPONSIBLE TO PROVIDE AN APPROVED TYPE OF ENCLOSURE FOR CONCEALMENT, AT NO ADDITIONAL COST. CONTACT ARCHITECT IF THIS SITUATION OCCURS.
- 22. PROVIDE OPENINGS THROUGH WALLS 1" DIAMETER LARGER THAN PIPE. SET SLEEVE AND PACK OPENING WITH FIBERGLASS TO PREVENT RUBBING OR NOISE TRANSFER.

MECHANICAL SPECIFICATIONS

- 1. BASIC HVAC MATERIALS AND METHODS
 - A. ALL WORK TO BE DONE AND MATERIALS FURNISHED COMPLYING WITH APPLICABLE LAWS AND REGULATIONS, INCLUDING THE INTERNATIONAL BUILDING, MECHANICAL, PLUMBING, FUEL AND FIRE SAFETY CODES. OBTAIN AND PAY FOR REQUIRED PERMITS AND FEES.
 - B. ALL MATERIALS USED SHALL BE NEW AND UNDAMAGED.
 - C. ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH CURRENT CONSTRUCTION INDUSTRY STANDARDS AND WORKMANSHIP.
 - D. MARK ALL NEW PIPING RUNS, IDENTIFYING TYPE AND DIRECTION OF FLOW.
 - E. FURNISH ACCESS DOORS (RATED OR NON-RATED AS REQUIRED) WHERE VALVES OR EQUIPMENT ARE CONCEALED BEHIND A NON-ACCESSIBLE CEILING OR WALL. FURNISH ACCESS DOORS TO GENERAL CONTRACTOR FOR INSTALLATION.
 - F. FURNISH STEEL PIPE SLEEVES WHERE PIPES PENETRATE RATED WALLS. PROVIDE SEALANT MATERIALS AND SYSTEM TO MAINTAIN THE WEATHER TIGHT WALL PENETRATION.
 - G. CONTRACTOR SHALL ARRANGE TO MEET AND INSTRUCT THE OWNER IN THE USE AND MAINTENANCE OF SYSTEMS AND EQUIPMENT. THIS INSTRUCTION SHALL BE FOR A MINIMUM OF (4) HOURS.
 - H. ALL MANUFACTURED EQUIPMENT, ACCESSORIES AND MATERIALS SHALL BE USED AS INTENDED BY THE MANUFACTURER IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTALLATION, OPERATION, AND MAINTENANCE INSTRUCTIONS.
 - I. CONTRACTOR SHALL PROVIDE IN ADDITION TO ANY OTHER WARRANTIES SPECIFIED, A ONE YEAR FULL LABOR AND MATERIAL WARRANTY ON ALL WORKMANSHIP, MATERIAL AND EQUIPMENT FURNISHED FOR THIS PROJECT.

2. VALVES

- A. GATE VALVES OR BALL VALVES SHALL BE CLASS 150 WITH ENDS AND MATERIALS TO MATCH PIPING SYSTEMS.
- B. BALL VALVES 2" AND SMALLER SHALL HAVE BRONZE BODY, STAINLESS STEEL BALL, TEFLON SEATS AND STUFFING BOX RING, LEVER HANDLE AND BALANCING STOPS, ENDS TO MATCH PIPING SYSTEM.
- C. STOP-CHECK VALVES SHALL BE BRASS ALLOY WITH A PRESSURE CLASS OF 150.

3. SUPPORTS AND ANCHORS

- A. FURNISH PIPE AND DUCT HANGERS, WHERE REQUIRED, FIRMLY SUPPORTED FROM BUILDING STRUCTURE. SUPPORT PIPING SYSTEMS SECURELY WHILE ALLOWING FOR PIPE AND BUILDING EXPANSION AND CONTRACTION. PROVIDE COPPER PLATED HANGERS FOR COPPER PIPE. USE ADJUSTABLE CLEVIS HANGERS OR ADJUSTABLE STEEL BAND HANGERS. MAXIMUM SPACING SHALL BE 5'-0" FOR 1/2" PIPING, 7'-0" FOR 3/4" TO 1-1/4" PIPING, 9'-0" FOR 1-1/2" TO 2" PIPING. FURNISH MECHANICAL EQUIPMENT SUPPORTS AS DETAILED OR AS REQUIRED TO SAFELY AND PERMANENTLY CARRY THE WEIGHT OF THE EQUIPMENT.

4. MECHANICAL INSULATION

- A. INSULATE ABOVE FLOOR HVAC PIPING WITH FIBERGLASS PREFORMED PIPE INSULATION WITH FACTORY APPLIED PAPER BACKED ALUMINUM FOIL VAPOR BARRIER MATERIAL. INSULATE FITTINGS WITH SIMILAR MATERIAL AS PIPE AND COVER WITH PVC FITTING COVERS. ALL INSULATING MATERIALS TO HAVE FLAME SPREAD RATING OF 25 OR LESS AND SMOKE DEVELOPMENT RATING OF 50 OR LESS AS TESTED BY ANSI/ASTM E 84 (NFPA 233) METHOD. INSULATE ALL PIPING WITH SURFACE TEMPERATURES BELOW 75 DEGREES F WITH 1/2" INSULATION. INSULATE ALL PIPING WITH SURFACE TEMPERATURES 75 DEGREES F AND HIGHER WITH 1" THICK INSULATION. WHERE PIPES ARE EXPOSED AND LESS THAN 8'-0" ABOVE FLOOR, PROVIDE HEAVY DUTY METAL JACKETING OVER INSULATION.

5. NATURAL GAS SYSTEMS

- A. GAS PIPING SHALL COMPLY WITH NFPA 54 "NATIONAL GAS CODE", NFPA TO "NATIONAL ELECTRIC CODE" AND BOCA BASIC MECHANICAL CODE.
- B. ABOVE GROUND GAS PIPING SHALL BE SCHEDULE 40, BLACK IRON WITH MALLEABLE IRON THREADED FITTINGS, SUPPORT PIPING WITH ADJUSTABLE BAND TYPE PIPE HANGERS, EQUAL TO ITT-GRINNELL FIG. 97. INSTALL DRIP LEG WITH UNION AND VALVE AT CONNECTION TO EACH PIECE OF EQUIPMENT. PROVIDE VALVE ON DISCHARGE OF METER. GAS VALVES SHALL BE 150 PSI, NON-SHOCK WOG, BRONZE BODY, STRAIGHT CONFIGURATION.
- C. INSTALL AND TEST PIPING IN COMPLIANCE WITH UTILITY COMPANY REGULATIONS AND THE NATIONAL FUEL GAS CODE, NFPA NO. 54.

6. NATURAL GAS SYSTEMS

- A. ATMOSPHERIC VENT STACKS SHALL BE TYPE B DOUBLE WALL GAS VENTS WITH UL LABEL AND MEETING NFPA 211 "STANDARDS FOR CHIMNEYS, FIREPLACES, VENTS, AND SOLID FUEL BURNING APPLIANCES" AS MANUFACTURED BY AMERICAN METAL PRODUCTS, HART & COOLEY, METAL-FAB, INC., SELKIRK.
- B. VENTS AND COMBUSTION AIR PIPES FOR CLOSED COMBUSTION EQUIPMENT AND HIGH EFFICIENCY EQUIPMENT SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THE LISTING OF THE EQUIPMENT.

7. TEMPERATURE CONTROLS

- A. THE TEMPERATURE CONTROLS SHALL BE ELECTRIC AND SHALL BE FURNISHED AS PART OF THE WORK OF THE MECHANICAL CONTRACTOR.

8. TESTING, ADJUSTING, AND BALANCING

- A. THE MECHANICAL CONTRACTOR SHALL SUBCONTRACT AN AIR BALANCER TO BALANCE THE SYSTEMS DESCRIBED BELOW.
- B. THE BALANCING SHALL BE COMPLETED BY AN INDEPENDENT AIR BALANCER WHO IS NOT AN EMPLOYEE OF THE MECHANICAL CONTRACTOR.
- C. PER COMPLIANCE WITH ASHRAE 90.1-1999, THE BALANCER SHALL SUBMIT AN AIR BALANCE REPORT TO THE ARCHITECT AND STATE OR COUNTY INSPECTOR.
- D. THE BALANCE REPORT SHALL SHOW PROOF THAT THE SYSTEM HAS BEEN BALANCED TO +/- 1.0% OF THE DESIGNED AIRFLOW. IT IS THE MECHANICAL CONTRACTOR AND AIR BALANCER'S DUTY TO PROVIDE ACCURATE DATA. SO AREAS OF INCORRECT FLOW MAY BE DISCLOSED TO THE ARCHITECT, INSPECTOR, AND OWNER.
- E. ALL AIRSIDE SYSTEMS, COMPONENTS, ETC. INCLUDING SUPPLY, RETURN, OUTDOOR, AND EXHAUST AIR SYSTEMS SHALL BE BALANCED. THE BALANCER SHALL PROVIDE SHEAVES AND BELTS AS NEEDED TO PROPERLY BALANCE EQUIPMENT TO +/- 1.0% OF THE DESIGNED AIRFLOWS. ALL EQUIPMENT, SUPPLY, RETURN, AND OUTDOOR AIR FLOWRATES SHALL BE LISTED IN THE BALANCE REPORT.
- F. ALL HAVAC MOTOR DATA INCLUDING FREQUENCY (RPM), AMP DRAW, HORSEPOWER, EXTERNAL STATIC PRESSURE, HEAD PRESSURE, ETC., SHALL BE INCLUDED IN THE BALANCE REPORT.

9. METAL DUCTWORK

- A. ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN COMPLIANCE WITH THE 2018 INTERNATIONAL MECHANICAL CODE, SECTION 603, AND SMACNA HVAC DUCT CONSTRUCTION STANDARDS. ALL DUCTWORK SHALL BE SEALED AND INSULATED IN ACCORDANCE WITH ASHRAE 90.1 1999.
- B. ROUND FLEX DUCT SHALL BE USED FOR DIFFUSER-GRILLE CONNECTIONS ABOVE LAY-IN CEILINGS. FLEX DUCT MAY BE USED IN OTHER AREAS WHERE THE DUCT AND GRILLE ARE PERMANENTLY AND REASONABLY ACCESSIBLE. MAXIMUM FLEX DUCT LENGTH IS 6'-0". PERFORMANCE OF FLEXIBLE DUCT SHALL MEET OR EXCEED THE RIGID DUCTWORK.
- C. UNLESS OTHERWISE NOTED ON PLANS, ALL SUPPLY AND RETURN DUCTWORK LOCATED WITHIN (10) FEET OF THE EQUIPMENT FAN SHALL BE LINED WITH 1/2" ACOUSTICAL DUCT LINER. DUCT DIMENSIONS SHOWN ON MECHANICAL PLANS ARE INTERIOR DIMENSIONS.
- D. DUCTWORK LOCATED OUTDOORS: ALL DUCTWORK LOCATED OUTDOORS SHALL BE LINED WITH 2" DUCT LINER, AND SEALED WATER-TIGHT WITH 100% SILICONE CAULK. ALL OUTDOOR DUCTWORK SHALL HAVE INSIDE DIMENSIONS AS LISTED ON THE MECHANICAL DRAWINGS. ALL DUCT LINER SHALL MEET THE 2015 INTERNATIONAL MECHANICAL CODE, SECTION 604.
- E. ALL DUCT LINER SHALL HAVE A FLAME SPREAD AND SMOKE DEVELOPMENT 25 OR LESS AND 50 OR LESS WHEN TESTED BY ASTM E-84 (NFPA 255) METHOD.

EXHAUST FAN SCHEDULE

TYPE	MANUFACTURER	MODEL	DESCRIPTION	AIR FLOW CFM	EXHAUST EXTERNAL STATIC PRESSURE	ELECTRICAL			REMARKS
						VOLTS	PHASE	MCA	
EF-1	BROAN	QTXE110150DC	CEILING EXHAUST FAN	150	.125	120V	1	0.4A	ALUMINUM WALL CAP

AIR OUTLET SCHEDULE

TYPE	MANUFACTURER	MODEL	DESCRIPTION	MATERIAL & COLOR	BORDER TYPE	NECK SIZE		REMARKS
						WIDTH	HEIGHT	
D-1	PRICE	96	STEEL GYMNASIUM GRILLE	STEEL/B12 WHITE	SURFACE MOUNT	30	12	
D-2	PRICE	SPD	SQUARE PLAQUE DIFFUSER	STEEL/B12 WHITE	LAY-IN	12	12	
R-1	PRICE	96	STEEL GYMNASIUM GRILLE	STEEL/B12 WHITE	SURFACE MOUNT	30	12	
R-2	PRICE	530	SINGLE DEFLECTION LOUVERED AIR GRILLE	STEEL/B12 WHITE	LAY IN	30	30	

HEAT PUMP SCHEDULE SYSTEM #1

TYPE	MANUFACTURER	MODEL	DESCRIPTION	NOMINAL COOLING (BTU/Hr)	COOLING EFFICIENCY [EER/SEER]	NOMINAL HEATING (BTU/Hr)	SIZE				ELECTRIC PER MODULE				NOTES & OPTIONS
							LENGTH	WIDTH	HEIGHT	WEIGHT (LBS)	VOLT	MCA 208/230	PHASE	MOCp	
CU-1	TRANE	5TWR5060A1000	OUTDOOR CONDENSER	60,000	18		35"	35"	35"	301	208-230	45	1	50	
AHU-1	TRANE	TAM9AOD6GV51DA	VARIABLE-SPEED AIR HANDLER	60,000			25"	25"	21"	180	208-230	12.5	1	15	
F-1	TRANE	45HP96G0G040V21	TWO-STAGE VARIABLE-SPEED FURNACE			57,600	34"	18"	29"	140	208-230	8.3	1	15	

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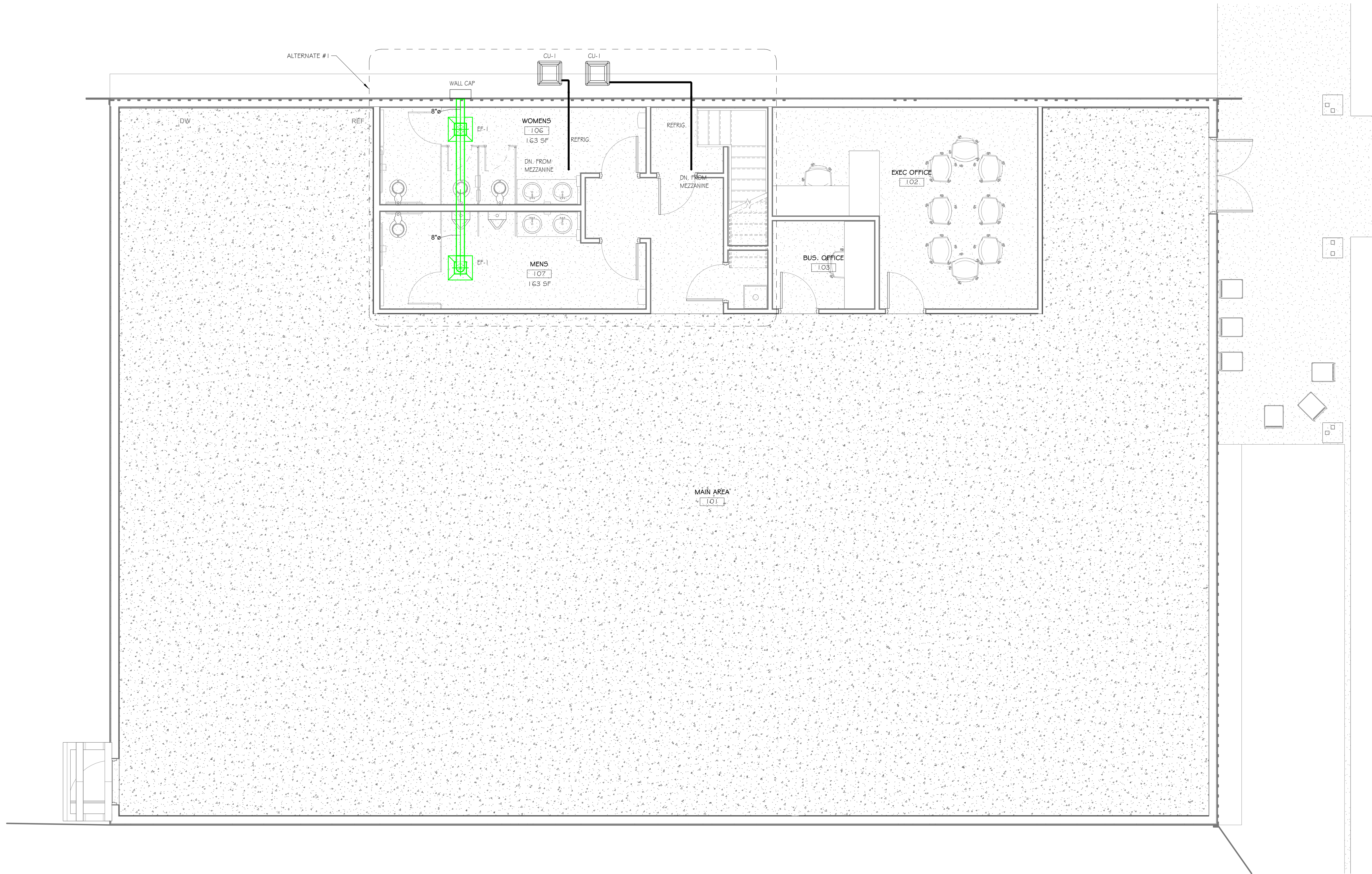
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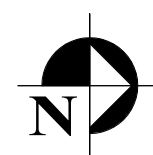
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1 FIRST FLOOR PLAN
1/4" = 1'-0"



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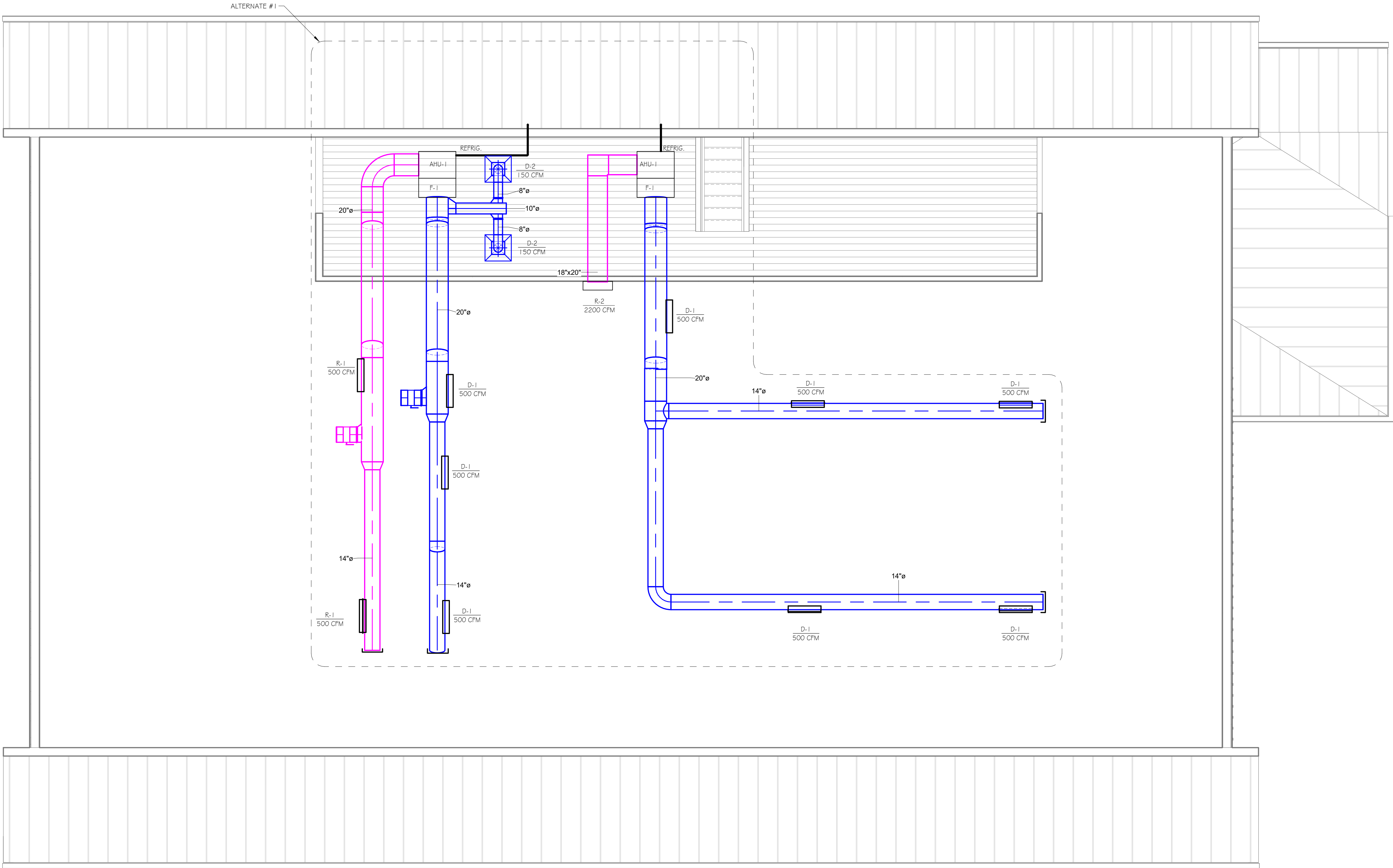
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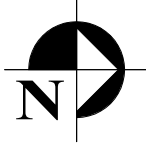
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1 SECOND FLOOR PLAN
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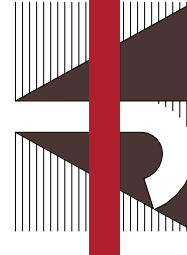


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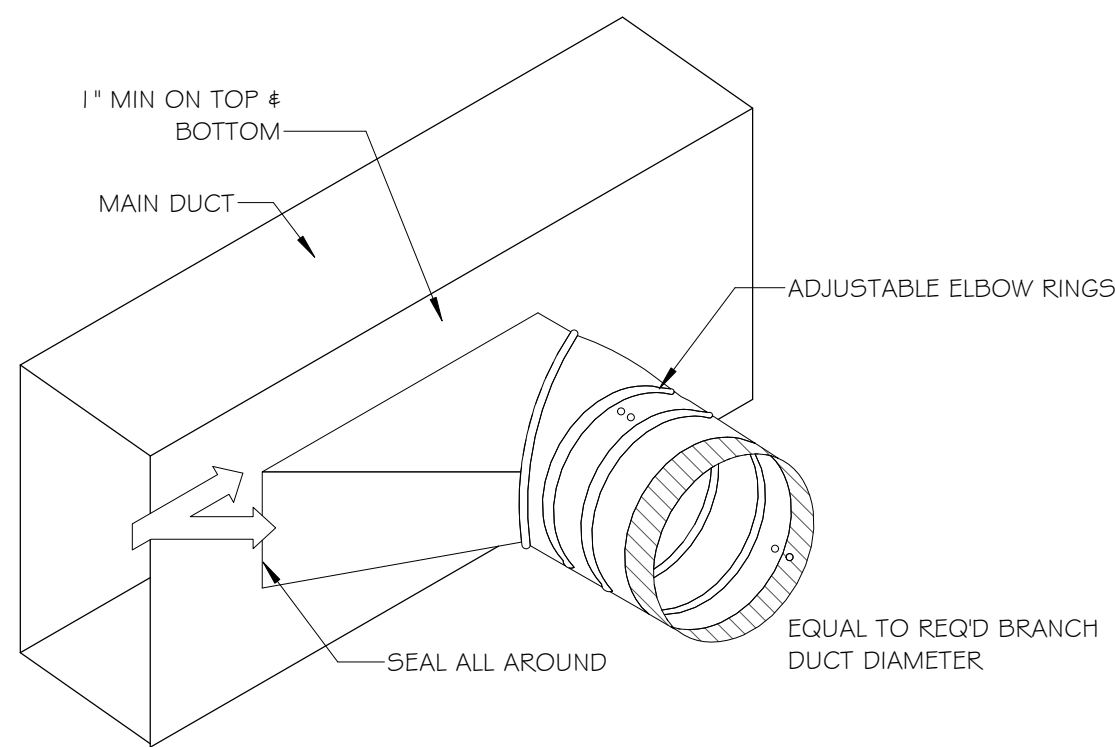
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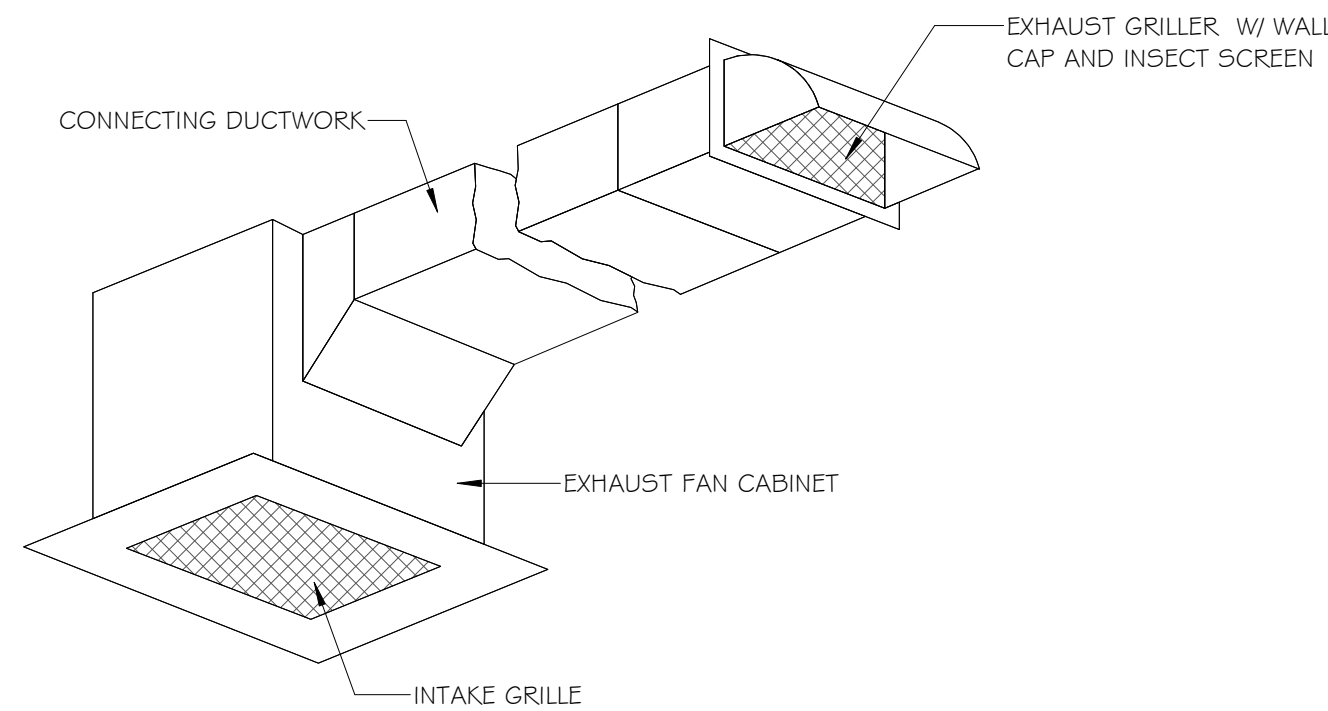
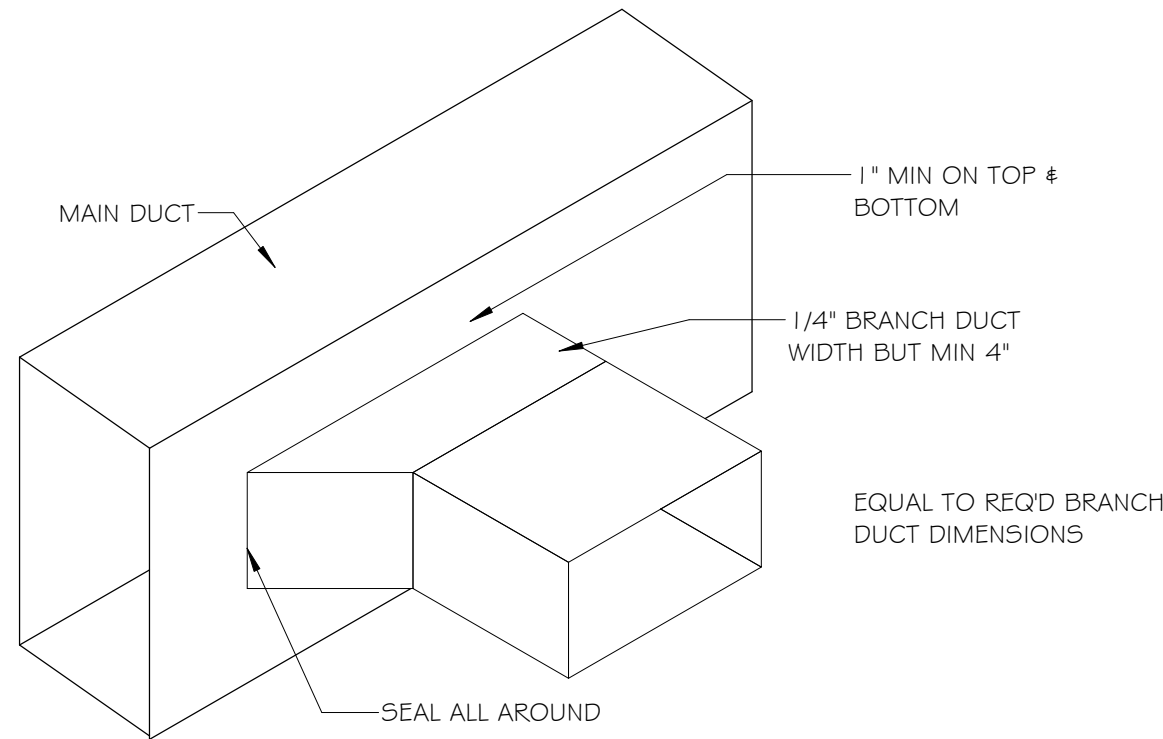
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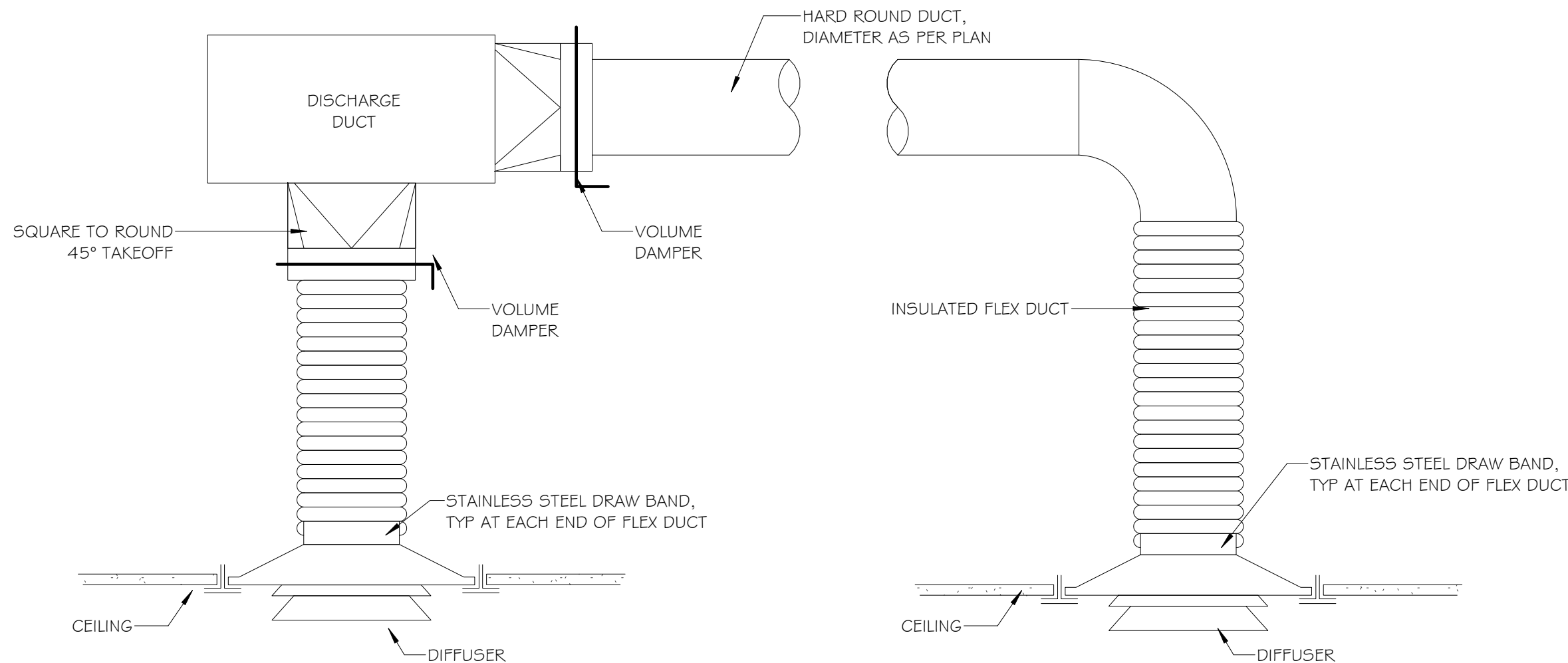
9
N.T.S.

TYPICAL BRANCH TAKE-OFF FITTINGS



2
N.T.S.

TYPICAL EXHAUST AIR DUCT DETAIL



1
N.T.S.

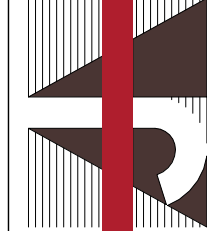
DUCT BRANCH FLEX PIPE DETAIL

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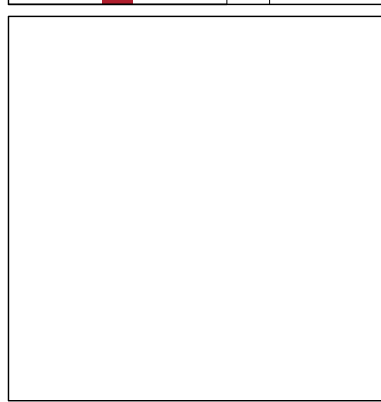


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PLUMBING - GENERAL NOTES

1. VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN FIELD BEFORE ORDERING EQUIPMENT OR FABRICATING COMPONENTS.
2. UNLESS NOTED OTHERWISE, CONSTRUCTION MATERIAL AND EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LEGALLY DISPOSED OF OFF THE SITE.
3. COORDINATE WORK WITH EXISTING STRUCTURAL AND ARCHITECTURAL FEATURES AND PROVIDE OFFSETS AND FITTINGS AS REQUIRED.
4. COORDINATE WORK WITH ALL OTHER TRADES. REFER TO ARCHITECTURAL PLANS FOR CEILING ELEVATIONS.
5. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING UNDERGROUND UTILITIES AND PIPING BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ALL DAMAGES WHICH MIGHT OCCUR BY THE FAILURE TO EXACTLY LOCATE AND PRESERVE ANY UNDERGROUND UTILITIES.
6. INSTALL ALL WORK IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
7. CONTRACTOR IS REQUIRED TO NOTIFY FACILITY OWNERS NOT LESS THAN 3 AND NOT MORE THAN 10 WORKING DAYS PRIOR TO EXCAVATION OR DEMOLITION WORK WHEN USING POWERED EQUIPMENT.
8. COORDINATE LOCATION OF ALL PIPING AND DEVICES BEFORE INSTALLATION WITH THE WORK OF OTHER TRADES. WHERE A CONFLICT IN AVAILABLE CLEARANCES OCCURS, OBTAIN CLARIFICATION FROM PRIME CONTRACTOR, AND PROVIDE WHATEVER ADDITIONAL PIPING, FITTINGS, ETC., ARE REQUIRED TO INSTALL PLUMBING SYSTEM WITHOUT ANY ADDITIONAL COST TO THE CONTRACT.
9. VERIFY MOUNTING HEIGHTS OF EQUIPMENT FIXTURES WARCHITECT DRAWING BEFORE ROUGH-IN.
10. BUILDING STORM WATER, DOMESTIC WATER, SANITARY, & GAS PIPING SHALL BE EXTENDED TO5 FT OUTSIDE OF BUILDING.
11. THE PLUMBING CONTRACTOR SHALL MAKE COMPLETE WASTE, VENT, HOT & COLD WATER CONNECTIONS TO ALL OWNER FURNISHED EQUIPMENT.
12. INSTALL ALL EQUIPMENT AND MATERIALS IN STRICT ACCORDANCE WITH RESPECTIVE MANUFACTURER'S WRITTEN INSTRUCTIONS.
13. DIMENSIONS AND PIPE SIZES ARE IN INCHES UNLESS NOTED OTHERWISE.
14. RUN PIPING CONCEALED EXCEPT IN MECHANICAL ROOMS OR WHERE NOTED OTHERWISE.
15. ALL EXPOSED PIPING SHALL BE CLEANED AND HAVE THE SURFACE PREPARED TO RECEIVE PAINTED FINISH. PRIME AND PAINT THE EXPOSED PIPING IN COLOR AS SELECTED BY THE ARCHITECT.
16. RUN 2" MINIMUM SIZE WASTE PIPING BELOW GROUND INSIDE BUILDING REGARDLESS OF SIZE NOTED ON FIXTURE SCHEDULE. SLOPE ALL SOIL, WASTE AND STORM WATER LINES PER CODE.
17. CONNECT WATER, WASTE, AND VENT PIPING TO FIXTURES IN ACCORDANCE WITH SIZES INDICATED ON FIXTURE SCHEDULE.
18. CONTRACTOR SHALL PROVIDE PIPE SLEEVES IN ALL FOUNDATION WALLS FOR PIPING PENETRATIONS.
19. MAKE ALL FINAL CONNECTIONS TO THE EQUIPMENT AS SHOWN ON THE DRAWINGS, PROVIDE SHUT-OFF VALVES IN ALL INDIVIDUAL WATER CONNECTIONS. IF APPLICABLE, PROVIDE SHUT-OFF VALVES IN ALL INDIVIDUAL GAS CONNECTIONS.
20. RUN ALL PIPING ABOVE CEILING UNDER BUILDING INSULATION OR CONCEALED IN WALLS, UNLESS NOTED OTHERWISE. ALL WASTE LINES AS SHOWN SHALL BE BELOW FLOOR, UNLESS NOTED OTHERWISE.
21. FURNISH AND INSTALL ACCESS PANELS (FIRE-RATED) WHERE REQUIRED, WHERE SHOWN, OR REQUIRED FOR ACCESS TO ALL CONCEALED VALVES, TRAPS OR OTHER EQUIPMENT FURNISHED UNDER THIS CONTRACT WHERE NO OTHER MEANS IS PROVIDED.

A. COORDINATE ACCESS PANELS AND DOORS WITH ARCHITECT FEATURES.
22. INSTALL UNIONS ON PIPING TO PERMIT EASY DISCONNECTING.
23. CONCEAL ALL PIPING, VALVES AND FITTINGS ABOVE CEILINGS AND IN CHASES WHERE THEY OCCUR, UNLESS NOTED OTHERWISE.
24. THE CONTRACTOR SHALL RIGIDLY SUPPORT ALL EQUIPMENT.
25. ALL SANITARY AND STORM SEVER PIPING SHALL BE RUN AT 1/8" PER FOOT SLOPE UNLESS OTHERWISE NOTED. ALL SANITARY SEWER PIPING 2" AND SMALLER SHALL BE RUN AT 1/4" PER FOOT SLOPE. ALL SANITARY SEWER PIPING 3" AND LARGER SHALL BE RUN AT 1/8" PER FOOT SLOPE.
26. PROVIDE AND INSTALL ANGLE SHUTOFF VALVES AT EACH FIXTURE. WATER VALVES FOR WALL MOUNTED FIXTURES SHALL BE CHROME PLATED, THREADED, HEAVY DUTY TYPE AND HAVE LOOSE KEY STOPS. VALVES FOR COUNTERTOP FIXTURES SHALL BE 1/4 TURN BALL VALVES. PROVIDE SHUT-OFF VALVE IN ALL HOT WATER SUPPLY BRANCHES AND COMBINATION SHUT-OFF AND BALANCE VALVE IN ALL HOT WATER RETURN BRANCHES. LOCATE IN ACCESSIBLE CEILING SPACE OR IF INSIDE EQUIPMENT ENCLOSURES, PROVIDE ACCESS DOOR.
27. HOT & COLD-WATER PIPING SHALL BE COPPER/PEX.
28. SEAL ALL FLOOR AND WALL PENETRATION IN FIRE RATED CEILING & PARTITIONS TO MAINTAIN FIRE RATING.
29. PROVIDE PIPE COVERING INSULATION, 1" THICK FOR HOT WATER PIPING, AND 1/2" THICK FOR COLD WATER PIPING.

PLUMBING SPECIFICATIONS

1. GENERAL NOTES

1.1 BUILDING CODES & STANDARDS

- A. CONFORM TO ALL APPLICABLE CODES (LOCAL, STATE, NATIONAL CODES, NFPA, OSHA, ETC.), GOVERNMENT REGULATIONS, UTILITY COMPANY REQUIREMENTS, AND APPLICABLE STANDARDS.
- B. ARRANGE FOR ALL REQUIRED INSPECTIONS AND APPROVALS.

1.2 GENERAL REQUIREMENTS

- A. CONFORM TO ALL GENERAL AND SPECIAL CONDITIONS OF CONTRACT AS SPECIFIED BY SITE ENGINEER'S AND/OR OWNER.
- B. VISIT SITE, CHECK FACILITIES AND CONDITIONS AND MAKE ALL NECESSARY OBSERVATIONS AND MEASUREMENTS. NOTE CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED AND TAKE ALL ITEMS INTO CONSIDERATION IN SCOPE OF WORK.
- C. SYSTEMS ARE TO BE COMPLETE AND WORKABLE IN ALL RESPECTS, PLACED IN OPERATION AND PROPERLY ADJUSTED.
- D. CONTRACTOR SHALL PROVIDE THEIR OWN CLEAN-UP, REMOVAL AND LEGAL DISPOSAL OF ALL RUBBISH DAILY.
- E. CONTRACTOR SHALL PROTECT THEIR WORK, EXISTING AND ADJACENT PROPERTY AGAINST WEATHER.
- F. CONTRACTOR SHALL PROTECT THEIR WORK, MATERIALS, APPARATUS AND FIXTURES FROM DAMAGE. ANY WORK DAMAGED BY FAILURE TO PROVIDE PROTECTION REQUIRED SHALL BE REMOVED AND REPLACED WITH NEW MATERIAL AT THE CONTRACTOR'S EXPENSE.
- G. ARRANGE FOR AND OBTAIN OWNER'S REPRESENTATIVE'S PERMISSION FOR ANY SERVICE SHUTDOWNS.
- H. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, SEQUENCES OF CONSTRUCTION AND THE SAFETY OR WORKMEN.
- I. NO PIPING, DUCTWORK, WIRING, ETC. SHALL BE INSTALLED OR ROUTED ABOVE ELECTRICAL PANELS AND EQUIPMENT.

1.3 DRAWINGS

- A. THE SYSTEM AS SHOWN ON PLUMBING DRAWINGS ARE DIAGRAMMATIC. CONFIRM ALL DIMENSIONS BY FIELD MEASUREMENT.
- B. THE EXACT LOCATIONS FOR FIXTURES, EQUIPMENT AND PIPING WHICH IS NOT COVERED BY DRAWINGS, SHALL BE OBTAINED FROM THE SITE ENGINEER'S OR THEIR REPRESENTATIVE IN THE FIELD AND THE WORK SHALL BE LAID OUT ACCORDINGLY.

1.4 BASE EQUIPMENT, MATERIALS AND SUBSTITUTIONS:

- A. ALL EQUIPMENT AND MATERIALS SHALL BE NEW, FREE OF DEFECTS.
- B. BASE BID MANUFACTURERS ARE INCLUDED IN THE SPECIFICATIONS OR LISTED IN THE NAME OR MAKE OF ANY ARTICLE, DEVICE, MATERIAL, FORM OF CONSTRUCTION, FIXTURE, ETC. ARE INCLUDED AS A BASIS OF DESIGN, WHETHER OR NOT THE WORDS "OR APPROVED EQUAL" ARE USED, SHALL BE KNOWN AS A "STANDARD".
- C. ALL PROPOSALS SHALL BE BASED ON "STANDARDS" SPECIFIED.
- D. THE EQUIPMENT SCHEDULES ON THE DRAWINGS INDICATE MANUFACTURERS EQUIPMENT MODEL NUMBERS THAT THIS DESIGN HAS BEEN BASED ON. THE USE OF OTHER MANUFACTURERS EQUIPMENT THAT IS LISTED AS ACCEPTABLE ALTERNATES AND REFLECTS ANY ADDITIONAL COST OF SUCH CHANGES SHALL BE PAID BY THE CONTRACTOR.
- E. SUBSTITUTIONS ARE SUBJECT TO THE APPROVAL OF THE OWNER. IF A SUBSTITUTION IS SUBMITTED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO EVALUATE IT AND CERTIFY THAT THE SUBSTITUTION IS EQUIVALENT IN ALL RESPECTS TO THE BASE SPECIFICATIONS.
- F. COORDINATE ALL APPROVED SUBSTITUTIONS, ANY COSTS RESULTING FROM SUBSTITUTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. APPROVED SHOP DRAWINGS DO NOT ABSOLVE THIS CONTRACTOR FROM THIS RESPONSIBILITY.

1.5 WARRANTY

- A. FULLY WARRANT ALL MATERIALS, EQUIPMENT AND WORKMANSHIP FOR (1) YEAR FROM DATE OF ACCEPTANCE.
- B. EXTEND ALL MANUFACTURERS' WARRANTIES TO OWNER.
- C. REPAIR OR REPLACE WITHOUT CHARGE TO THE OWNER ALL ITEMS FOUND DEFECTIVE DURING THE WARRANTY PERIOD. IN THE CASE OF REPLACEMENT OR REPAIR DUE TO FAILURE WITHIN THE WARRANTY PERIOD, THE WARRANTY ON THAT PORTION OF THE WORK SHALL BE EXTENDED FOR A MINIMUM PERIOD OF ONE (1) YEAR FROM THE DATE OF SUCH REPLACEMENT OR REPAIR.

2. BASIC MATERIALS AND METHODS

2.1 GENERAL

- A. THIS SECTION INCLUDES BASIC PLUMBING MATERIALS AND METHODS TO COMPLEMENT OTHER SECTIONS IN THIS SPECIFICATION AND REQUIREMENTS INDICATED ON THE MECHANICAL DRAWINGS.

2.2 SUPPORTS & HANGERS

- A. INSTALL HANGERS, SUPPORTS, CLAMPS AND ATTACHMENTS AS REQUIRED TO PROPERLY SUPPORT PIPING FROM BUILDING STRUCTURE. THE INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF MSS SP-69 AND SP-89.

2.3 ESCUTCHEONS

- A. FIT ALL PIPE PASSING THROUGH WALLS, FLOORS OR CEILINGS IN FINISHED ROOMS WITH STEEL OR BRASS ESCUTCHEONS. WHERE SURFACE IS TO RECEIVE A PAINT FINISH, MAKE ESCUTCHEONS NICKEL OR CHROME PLATED. WHERE PIPING IS INSULATED, FIT ESCUTCHEONS OUTSIDE INSULATION.

2.4 IDENTIFYING DEVICES & LABELS

- A. PROVIDE METAL EQUIPMENT NAMEPLATES PERMANENTLY FASTENED TO EQUIPMENT WITH OPERATIONAL DATA ENGRAVED OR STAMPED.
- B. IDENTIFY ALL PIPES AND VALVES AT UNEXPOSED AREAS, AND ACCESSIBLE CEILINGS AND SHAFTS.
- C. COLOR CODE IDENTIFICATION BANDS OR MARKER BACKGROUNDS TO IDENTIFY CONTENTS OF PIPE AND DIRECTION OF FLOW LOCATED NEAR EACH VALVE AND FITTING, ON BOTH SIDES OF PIPE PASSING THROUGH WALLS AND ON LONG RUNS AT NOT OVER 20 FOOT INTERVALS.

2.5 FLUES

- A. FLUES SHALL BE TYPE B DOUBLE WALL TYPE. INNER PIPE SHALL BE FABRICATED OF TYPE 430M STAINLESS STEEL AND THE OUTER PIPE OF ALUMINIZED STEEL. PROVIDE VENTILATED ROOF THIMBLE, EXIT CONE AND STACK CAP.

2.6 CUTTING, PATCHING & DRILLING

- A. PATCH AND FINISH TO MATCH ADJACENT AREAS THAT HAVE BEEN CUT, DAMAGED OR MODIFIED AS A RESULT OF THE INSTALLATION OF THE MECHANICAL SYSTEMS.
- B. EXACT LOCATION OF ROOF TOP MECHANICAL UNITS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. CONTRACTOR SHALL FURNISH AND INSTALL ALL SUPPLEMENTAL SUPPORT STEEL FOR EQUIPMENT AND ROOF PENETRATIONS AFTER APPROVAL OF STRUCTURAL ENGINEER.

3. INSULATION

- A. PLUMBING INSULATION (AS MANUFACTURED BY OWENS CORNING, KNAUF, SCHULLER OR CERTAINTEEED)

1. INSULATE ALL ABOVE GRADE HOT AND COLD WATER PIPING WITH MOLDED FIBER GLASS HAVING AN ALL SERVICE JACKET.
- B. INSULATION THICKNESS SCHEDULE:

1) LESS THAN 2" DIAMETER PIPE: 1" THICK-HW AND 1/2" THICK CW; 2) 2"-8" DIAMETER PIPE: 1-1/2" THICK.

1. INSULATE ALL ABOVE-GRADE, HORIZONTAL RAIN CONDUCTORS AND ROOF DRAIN SUMPS WITH ONE (1) INCH THICK MOLDED FIBER GLASS HAVING TYPE ASJ JACKET AND MANUFACTURED BY OWENS-CORNING FIBERGLASS COMPANY.

2. INCLUDE INSULATION OF FITTINGS AND VALVES. KEEP VAPOR BARRIERS INTACT. APPLY TO MANUFACTURER'S RECOMMENDATIONS.

4. PIPING AND VALVES

4.1 GENERAL

- A. LABEL ALL PIPING AND SHOW DIRECTION OF FLOW EVERY 20 FEET ON CENTER.

4.2 CONNECTIONS TO EQUIPMENT

- A. PROVIDE VALVES AT ALL WATER AND/OR GAS CONNECTION FOR EQUIPMENT.
- B. INCLUDE ACCESSORIES REQUIRED BY CODE, DRAWING OR MANUFACTURER'S INSTRUCTIONS.

4.3 SANITARY AND STORM SEWERS

- A. SANITARY AND STORM SEWERS

1. ROOF DRAINS SHALL BE PROVIDED WITH A FLASHING RING AND A 30"x30"x 4LB. LEAD FLASHING PROPERLY FASTENED TO THE FLASHING RING.

2. PVC PIPING SHALL NOT BE INSTALLED UNLESS PERMITTED BY CODE.
- B. ABOVE GRADE SANITARY/STORM SEWER AND VENT MATERIAL SHALL BE AS FOLLOWS:

1. NO-HUB CAST IRON PIPE CISPI 1-301-78.

2. PVC-DWV PLASTIC ASTM D1785 WITH ASTM D2665 DWV SOLVENT WELD SOCKET FITTINGS.
- C. SITE STORM AND SANITARY SEWERS

1. UP TO 15" - PVC PLASTIC ASTM D3034 SDR 35 WITH ASTM D3212 GASKET JOINTS.

4.4 DOMESTIC WATER PIPING

- A. INSTALL DOMESTIC WATER PIPING AS INDICATED ON DRAWINGS. INCLUDE ALL FITTINGS, VALVES, HANGERS AND OTHER ACCESSORIES INCLUDING WATER METER AND BACKFLOW PREVENTER. EXTEND DOMESTIC WATER PIPING TO ALL FIXTURES AND EQUIPMENT REQUIRED FOR COMPLETE INSTALLATION.
- B. INCLUDE UNIONS, OR OTHER DISCONNECT MEANS, STOPS OR VALVES FOR ISOLATION OF FIXTURES AND EQUIPMENT. VALVES TO BE FULLY COMPATIBLE WITH PIPING FOR SERVICE INTENDED AS MANUFACTURED BY NIBCO, CRANE OR MILWAUKEE. INCLUDE HOSE OR DRAIN VALVES AT LOW POINTS WHERE FIXTURES CANNOT BE USED FOR DRAINAGE.
- C. PROVIDE WATER HAMMER ARRESTERS OF TYPE REQUIRED FOR FIXTURES AND WATER PRESSURES. THESE SHALL BE ASSE 1010 OR FDI-WH201, PISTON TYPE WITH PRESSURIZED METAL-TUBE CUSHIONING CHAMBER AS MANUFACTURED BY SIOUX CHIEF, AMTROL, JOSAM OR ZURN HANGERS ON INSULATED PIPE TO BE OUTSIDE OF INSULATION, SIZED ACCORDINGLY AND WITH A SUFFICIENT SADDLE TO PROTECT INSULATION.
- D. DOMESTIC WATER PIPING SHALL BE AS FOLLOWS:

1. ABOVE GRADE:

a. 1-1/2" NPS AND LARGER- TYPE "L" HARD COPPER ASTM B88-832 WITH WROUGHT COPPER FITTINGS ASTM B16.22 1980 AND NON-LEAD OR ANTIMONY SOLDER JOINTS.

b. 1-1/4" NPS AND SMALLER - PEX TUBING PER ASTM F877 STANDARD GRADE HYDROSTATIC PRESSURE RATINGS 200°F AT 80 PSI.

2. BELOW GRADE - PEX PIPING WITHOUT JOINTS. PROVIDE CPVC CONDUIT.

3. FLUSH, VENT AND SANITIZE ALL WATER PIPING WITH CHLORINE AS REQUIRED PER AWWA, LOCAL BUILDING DEPARTMENT AND HEALTH DEPARTMENT CODES.

4. DOMESTIC HOT AND COLD WATER PIPING UNDER CONCRETE FLOOR TO BE COVERED WITH 6" OF SAND SO THAT PIPING WILL NOT BECOME EMBEDDED IN THE FLOOR SLAB.
- E. ALL PIPING UNDER CONCRETE FLOOR SHALL BE PEX, CONTINUOUS. NO SPLICES OR FITTINGS WILL BE ALLOWED. PROVIDE CPVC CONDUITS FOR ALL UNDERSLAB PIPING.

4.5 CONDENSATE DRAIN PIPING

- A. INSTALL SCH 40 PVC CONDENSATE PIPING AT A MINIMUM 1% DOWNWARD SLOPE IN THE DIRECTION OF FLOW UNLESS OTHERWISE INDICATED.

4.6 STRAINERS

- A. INSTALL SCH 40 PVC CONDENSATE PIPING AT A MINIMUM 1% DOWNWARD SLOPE IN THE DIRECTION OF FLOW UNLESS OTHERWISE INDICATED.

4.7 PRESSURE REGULATORS

- A. WATER PRESSURE REDUCING VALVE SHALL HAVE AN INITIAL WORKING PRESSURE OF 150 PSI WITH AN ADJ OUT PRESSURE SETTING. VALVES 2" AND SMALLER SHALL BE OF BRONZE BODY WITH THREADED CONNECTIONS.

4.8 BACKFLOW PREVENTER.

- A. DOUBLE CHECK BACKFLOW PREVENTION ASSEMBLY SHALL CONSIST OF TWO POSITIVE SEATING CHECK MODULES WITH CAPTURED SPRINGS AND RUBBER SEAT DISCS THAT ARE REPLACEABLE. IT SHALL HAVE A LOW PRESSURE DROP. BACKFLOW PREVENTER SHALL REQUIRE NO SPECIAL TOOLS FOR SERVICING. IT SHALL BE A CAST BRONZE BODY CONSTRUCTION FROM 1/2"-2" AND FUSED EPOXY COATED CAST IRON BODY FOR 2-1/2" - 3".

4.9 PIPE SUPPORTS

- A. PIPE SUPPORTS FOR HOT WATER PIPE SHALL BE ANVIL FIG. 181 OR EQUAL.
- B. PIPE SUPPORTS FOR NATURAL GAS SHALL BE ANVIL FIG. 260 OR EQUAL

5. PLUMBING SYSTEMS AND EQUIPMENT

5.1 GENERAL

- A. CONTRACTORS SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THEIR WORK.
- B. VERIFY EXACT CONDITIONS IN FIELD AND COORDINATE WITH THESE DRAWINGS AND OTHER TRADES BEFORE BEGINNING NEW WORK.
- C. DETERMINE EXACT LOCATIONS FOR ALL EQUIPMENT, PIPING, CONDUITS AND DUCTWORK IN FIELD.
- D. COORDINATE WORK OF THIS CONTRACT WITH OTHER TRADES. CONFLICTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- E. ANY DISCREPANCIES BETWEEN WHAT IS SHOWN ON DRAWINGS OR SPECIFIED AND THE ACTUAL CONDITIONS IN THE FIELD SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER'S BEFORE PROCEEDING.
- F. BUILDING AND SURFACES DAMAGED DURING INSTALLATION SHALL BE REPAIRED, REPLACED, AND/OR RESTORED TO ORIGINAL CONDITION AFTER COMPLETION OF WORK AND BEFORE ACCEPTANCE BY OWNER.

5.2 EQUIPMENT

- A. PLUMBING CONTRACTOR IS TO FURNISH ALL PLUMBING EQUIPMENT INDICATED AND/OR SCHEDULED ON THE DRAWINGS COMPLETE WITH BASES, ISOLATORS, SUPPORTS AND OTHER REQUIRED ACCESSORIES.
- B. INSTALL COMPLETE AND PLACE IN PROPER OPERATION PER MANUFACTURER'S RECOMMENDATIONS, LUBRICATE AND ADJUST AS REQUIRED.
- C. EQUIPMENT TO BE MAKE AND MODEL AS SCHEDULED UNLESS ALTERNATE EQUIPMENT OF EQUIVALENT QUALITY AND PERFORMANCE IS SUBMITTED AS A SUBSTITUTION. ALL SUBSTITUTIONS ARE SUBJECT TO ACCEPTANCE WITHOUT QUALIFICATION BY OWNER, ENGINEER AND SITE ENGINEER.

6. PLUMBING INSTRUMENTS AND CONTROLS

6.1 GENERAL

- A. AFTER INSTALLATION, CHECK ALL EQUIPMENT AND PERFORM START UP IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- B. ALL PIPING SHALL BE TESTED AND FREE OF LEAKS AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- C. WORK THAT IS SCHEDULED TO BE CONCEALED OR INSULATED SHALL REMAIN UNCOVERED UNTIL REQUIRED TESTS HAVE BEEN COMPLETED. IF THE CONSTRUCTION SCHEDULE REQUIRES, ARRANGE FOR TESTS ON SECTIONS AT A TIME.
- D. BALANCE ALL SYSTEMS, CALIBRATE CONTROLS, CHECK FOR PROPER OPERATION AND SEQUENCE UNDER ALL CONDITIONS AND MAKE ALL NECESSARY ADJUSTMENTS.
- E. INSTRUCT OWNER IN OPERATION OF SYSTEMS AND SUBMIT OPERATING AND MAINTENANCE MANUAL FOR ALL EQUIPMENT AND SYSTEMS.

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PLUMBING FIXTURE SCHEDULE							
NAME	DESCRIPTION	MANUFACTURER	PIPE SIZE				REMARKS
			CW	HW	VENT	WASTE	
WC-1	WATER CLOSET, ADA	AMERICAN STANDARD	1"	-	2"	4"	MODEL 3461.528.020 MADERA ADA ELONGATED VITREOUS CHINA TOILET WITH 1.28 GPF MANUAL PISTON FLUSH VALVE.
LAV-1	LAVATORY	ACORN ENGINEERING	1/2"	1/2"	1-1/2"	1-1/2"	MODEL DUADA-3118 30-3/4" X 18-1/2" 18-GAUGE STAINLESS STEEL UNDERMOUNT DOUBLE BOWL SINK (13-1/2" X 16" X 6.5" BOWLS). REQUIRES FAUCET, 1-1/2" DRAIN ASSEMBLY, P-TRAP, MOUNTING CLIPS/BRACKETS, 3/8" TO 1/2" FLEXIBLE SUPPLY LINES, SHUT-OFF VALVES, AND SILICONE SEALANT. FITS 36" MIN. CABINET FOR ADA.
UR-1	URINAL	SLOAN	3/4"	-	1-1/2"	2"	MODEL SU-1009 VITREOUS CHINA WASHDOWN URINAL (17-1/4" W X 14-1/4" D X 25-1/2" H, 0.125-0.5 GPF). REQUIRES FLUSHOMETER VALVE, STRAINER, WALL HANGER/CARRIER, 3/4" SUPPLY LINE, 2" NPT OUTLET FLANGE, SWEAT SOLDER ADAPTER, AND SEALING COMPOUND. MEETS ADA 17" RIM HEIGHT AND FLOOR SPACE.
SK-1	SINK, SINGLE	KOHLER	1/2"	1/2"	1-1/2"	2"	MODEL K-RH20062-NA BALLAD 32" 16-GAUGE STAINLESS STEEL UNDERMOUNT DOUBLE BOWL SINK WITH SOUND-ABSORPTION
MS-1	MOP SINK	ELKAY	1/2"	1/2"	1-1/2"	2"	MODEL FLR-1X 24" X 20" X 11-1/4" 16-GAUGE STAINLESS STEEL FLOOR-MOUNTED MOP SINK (20" X 16" X 10" BOWL)
DW-1	DISHWASHER	OATEY	-	1/2"		1-1/2"	MODEL 37901 MODA 1-VALVE DISHWASHER SUPPLY BOX WITH HAMMER ARRESTOR OPTION
FD-1	FLOOR DRAIN	ZURN	-	-	-	2"	MODEL Z415B ADJUSTABLE CAST IRON FLOOR DRAIN WITH SQUARE NICKEL BRONZE STRAINER.
DF-1	DRINKING FOUNTAIN	ELKAY	1/2"		1-1/4"	1-1/2"	MODEL L258WSLK WALL-MOUNTED STAINLESS STEEL ADA COOLER WITH REFRIGERATION AND OPTIONAL BOTTLE FILLER
HW-H	HOT WATER HEATER	RHEEM	3/4"	3/4"			MODEL XG50T0GEC38U1 50-GAL TALL NATURAL GAS WATER HEATER (38,000 BTU)
HB-1	HOSE BIB	EVERBILT QUARTER MASTER	1/2"				1/2" FORGED BRASS MPT HOSE BIBB, MODEL# 103-053EB

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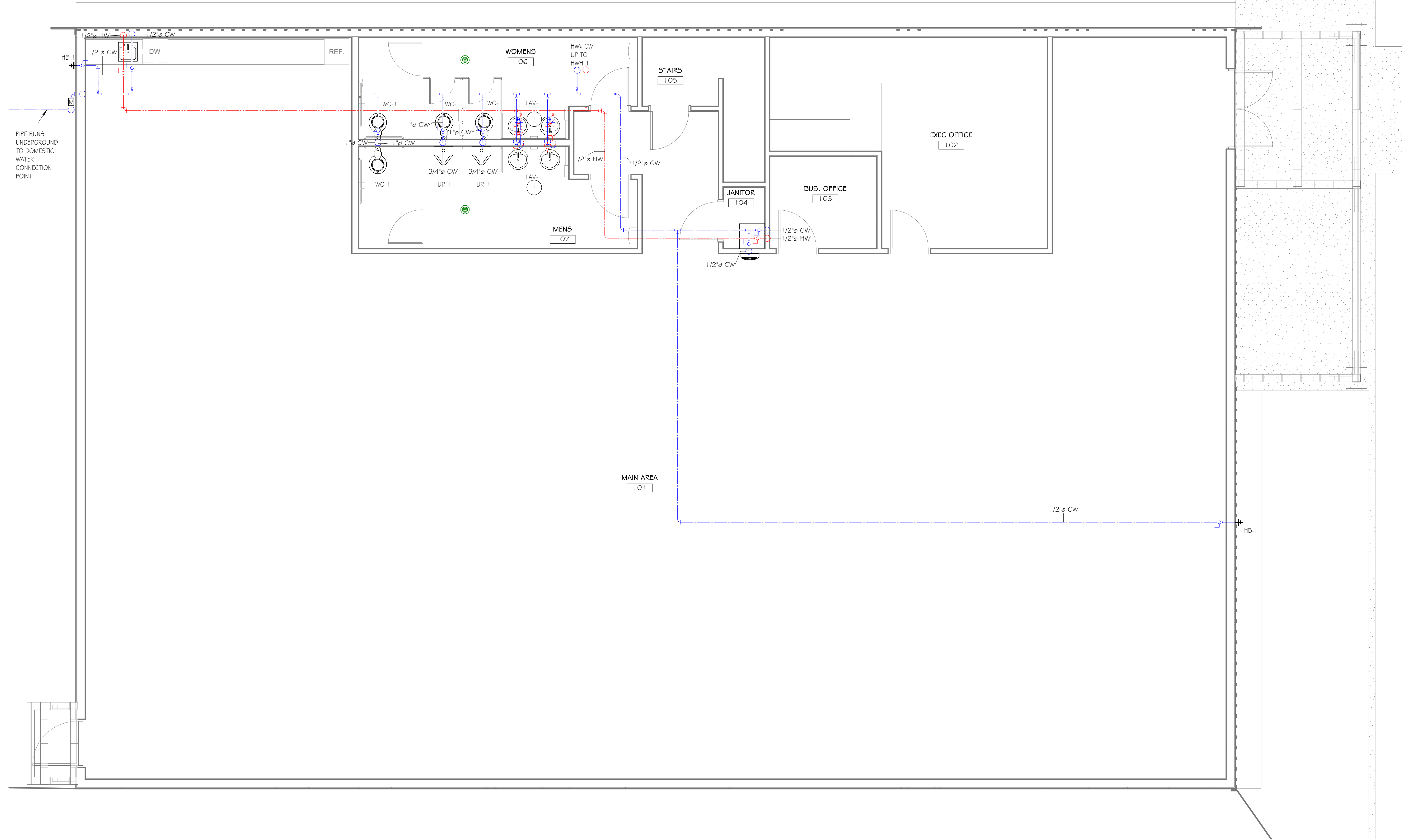
FRIENDS OF ELMIRA CIVIL WAR PRISON CAMP

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PROJECT ELMIRA CIVIL WAR PRISON CAMP VISITOR CENTER 637-639 WINSOR AVE ELMIRA, NY 14901	TITLE OF DRAWING SPECIFICATIONS, SCHEDULE & NOTES
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PLUMBING KEYNOTES

1. EACH LAVATORY NEEDS SEPARATE 1/2" HW & CW DOMESTIC SERVICE CONNECTIONS

PLUMBING GENERAL NOTES

1. PLUMBING FIXTURES SHALL BE ALTERNATE #1
2. DOMESTIC SUPPLY PIPING SHALL BE BASE BID AND BE CAPPED IN PLACE FOR PLUMBING FIXTURE FUTURE INSTALLATION

1 FIRST FLOOR PLUMBING PLAN - DOMESTIC SUPPLY
1/4" = 1'-0"

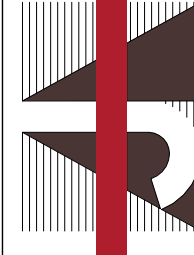


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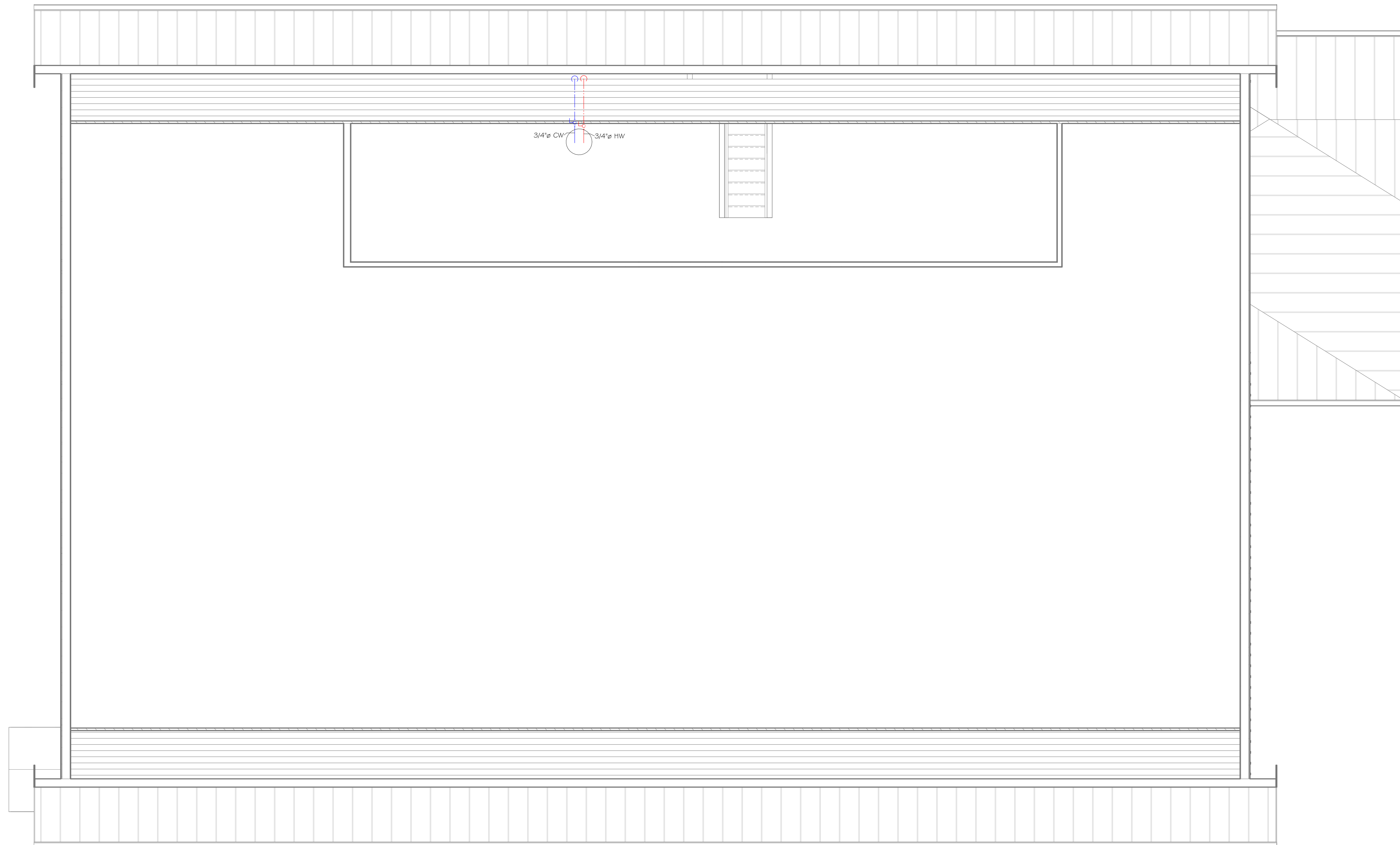
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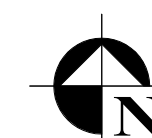
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1. PLUMBING FIXTURES SHALL BE ALTERNATE #1
2. DOMESTIC SUPPLY PIPING SHALL BE BASE BID AND BE CAPPED IN PLACE FOR PLUMBING FIXTURE FUTURE INSTALLATION



1 SECOND FLOOR PLUMBING PLAN - DOMESTIC SUPPLY
1/4" = 1'-0"



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TITLE OF DRAWING
SECOND FLOOR PLUMBING PLAN - DOMESTIC SUPPLY PIPING

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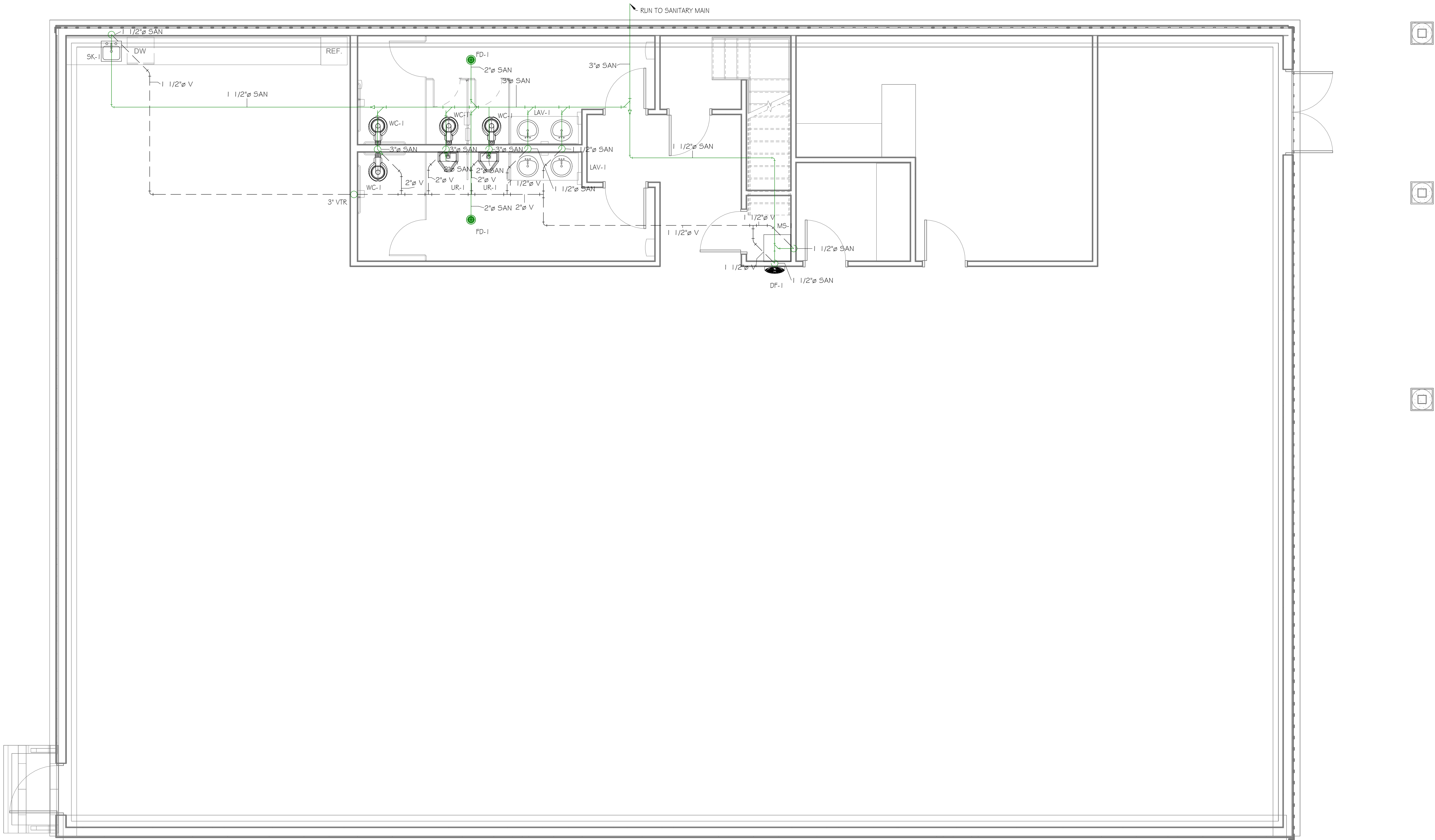
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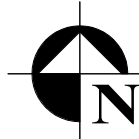
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PLUMBING GENERAL NOTES

1. PLUMBING FIXTURES SHALL BE ALTERNATE #1
2. DOMESTIC SUPPLY PIPING SHALL BE BASE BID AND BE CAPPED IN PLACE
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1 FIRST FLOOR PLUMBING PLAN - SANITARY & VENT
1/4" = 1'-0"

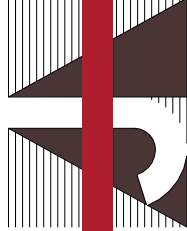


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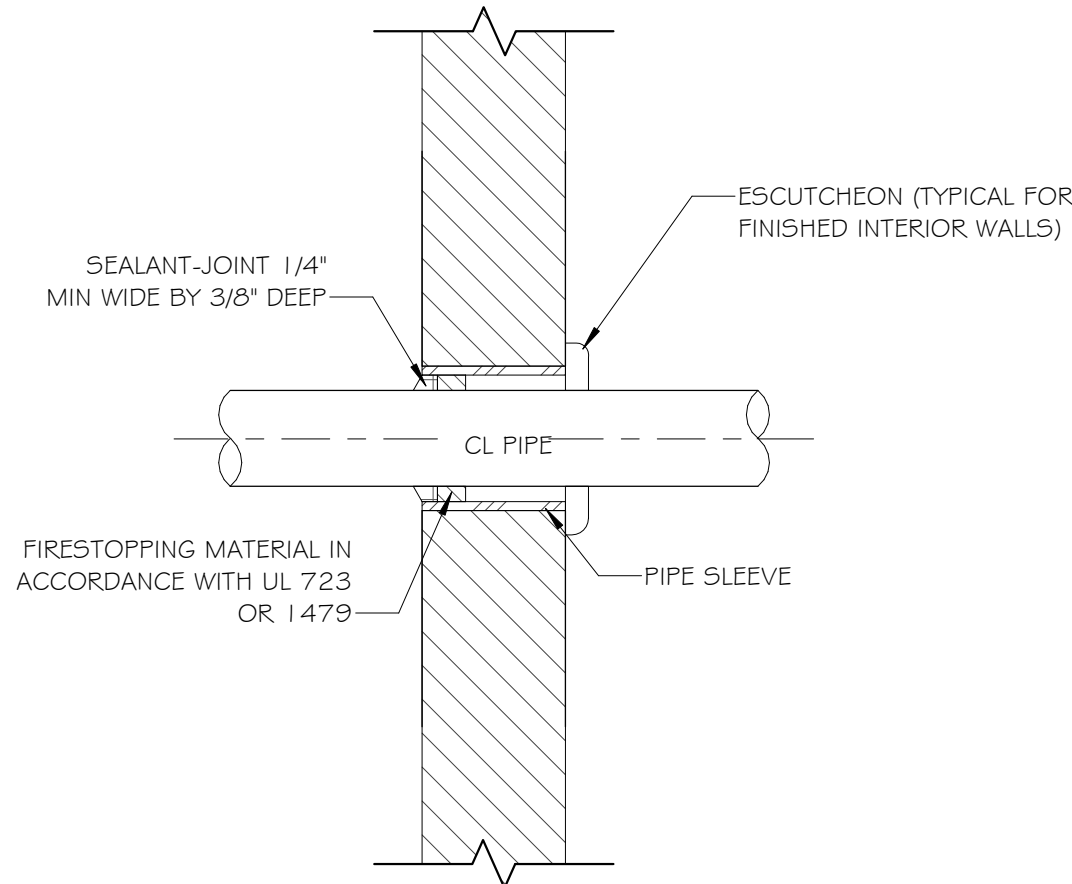
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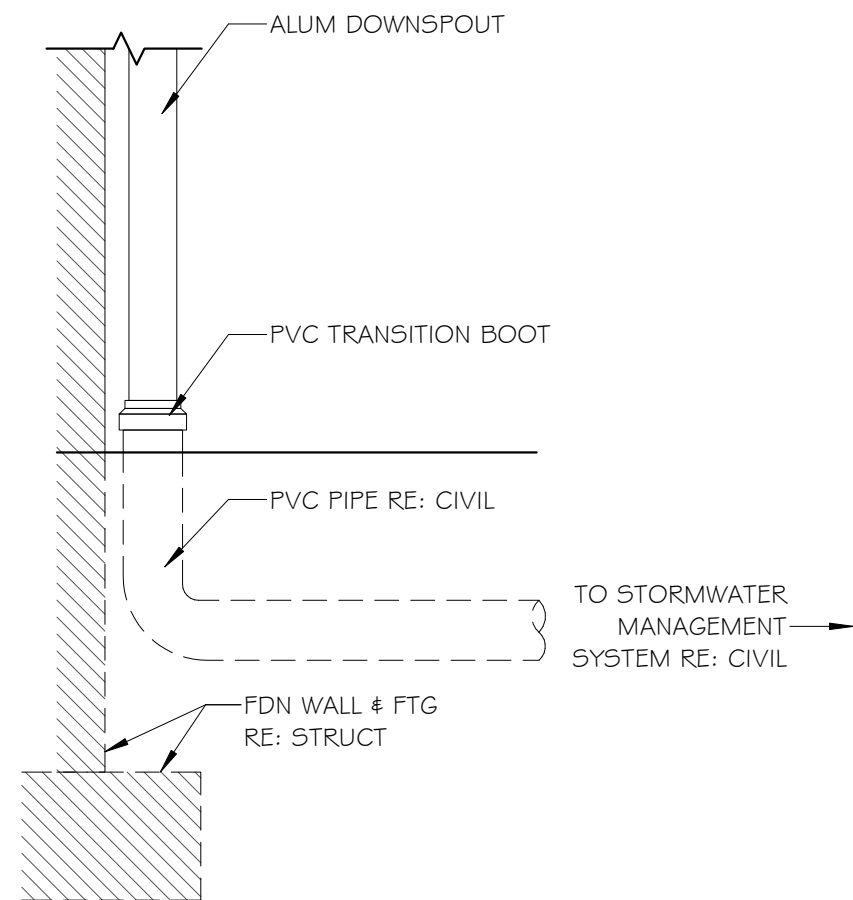
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FIRST FLOOR PLUMBING PLAN - SANITARY & VENT PIPING

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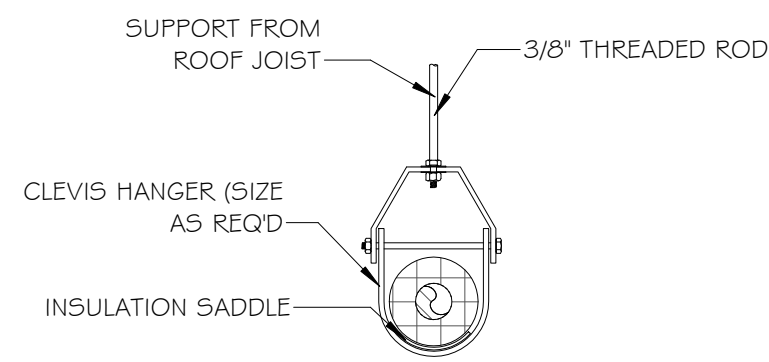
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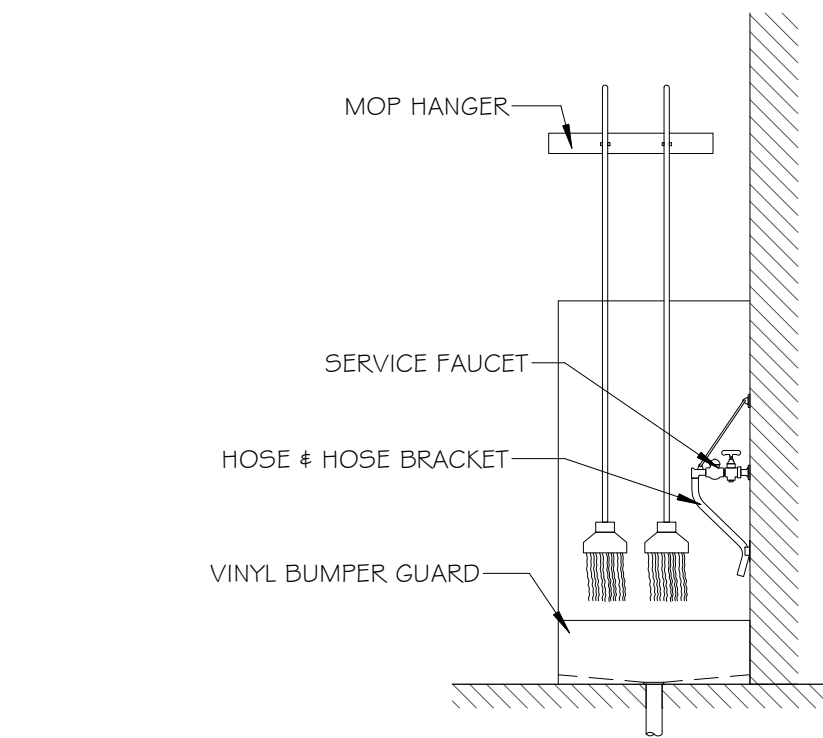
9 TYP. PIP PENETRATION THRU WALL DETAIL
N.T.S.



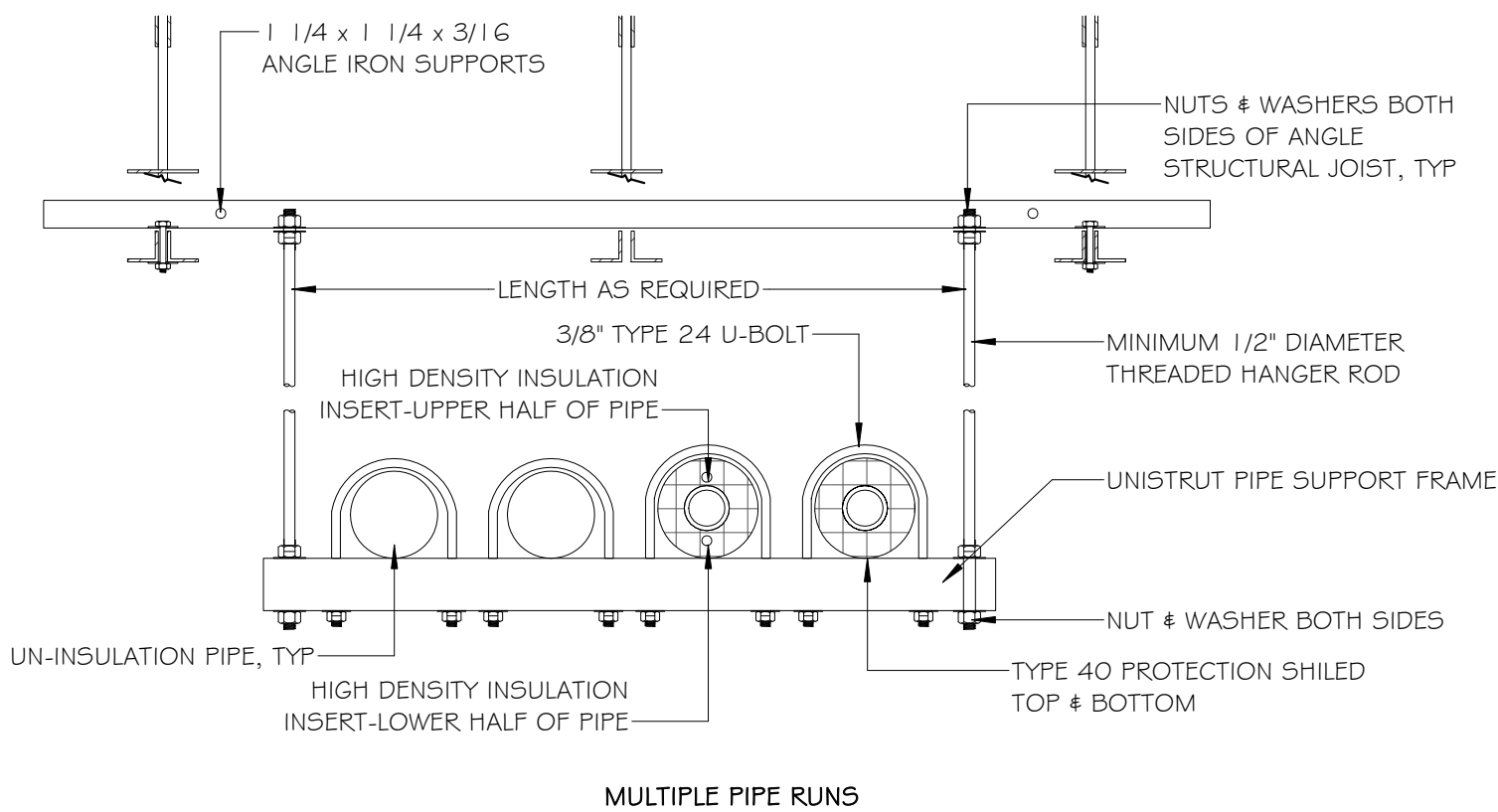
6 TYP. DOWNSPOUT DETAIL
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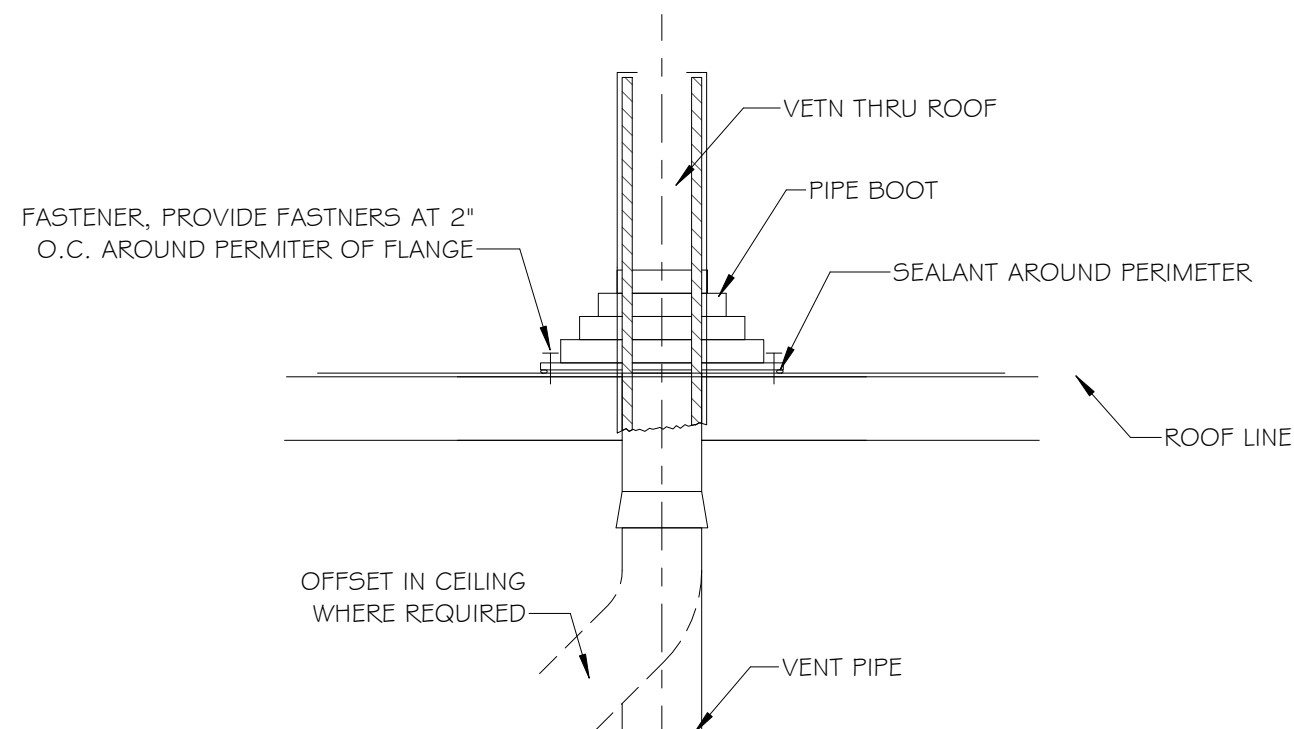
SINGLE PIPE RUN



4 MOP SINK ELEVATION DETAIL
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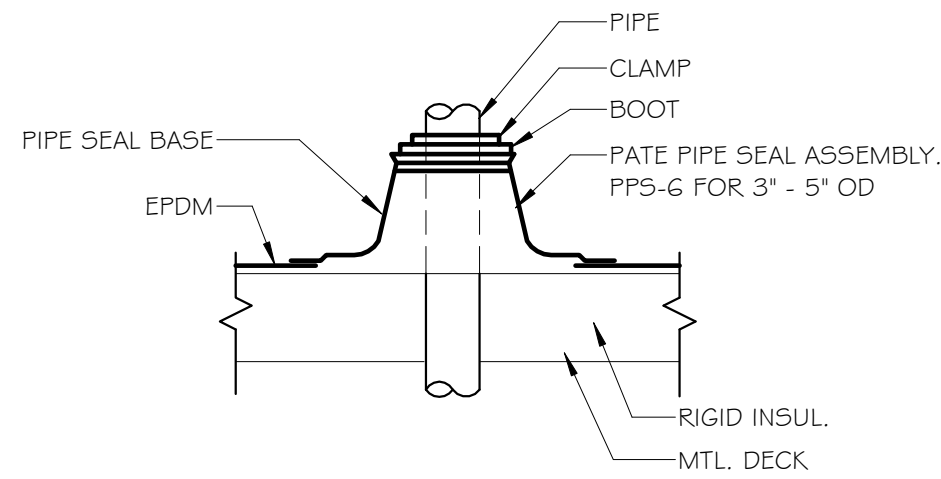


MULTIPLE PIPE RUNS

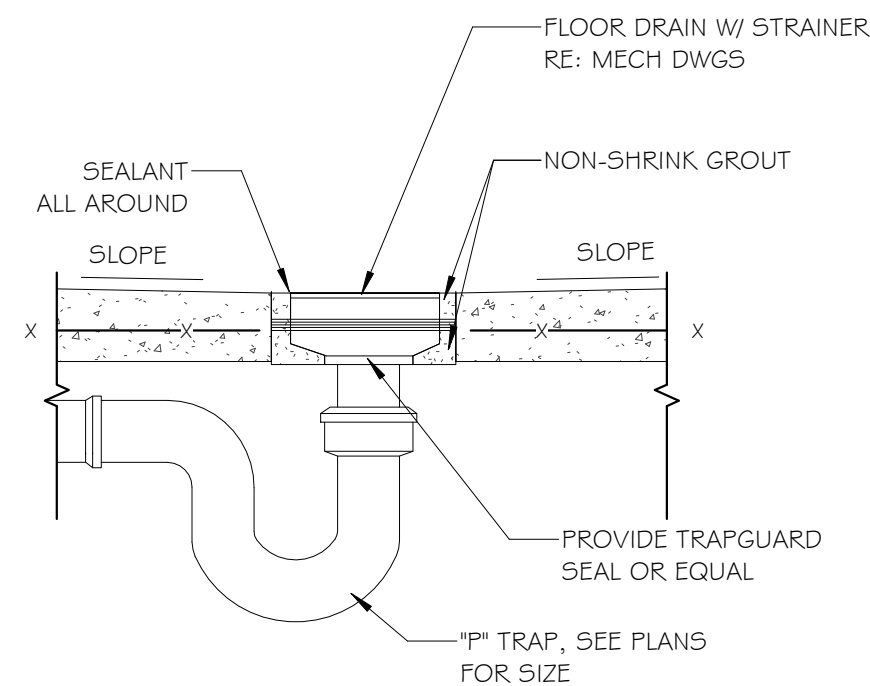


NOTE: CONTRACTOR SHALL INSTALL VENT WITH BOOT IN ACCORDANCE WITH ROOF MANUFACTURES INSTALLATION INSTRUCTIONS

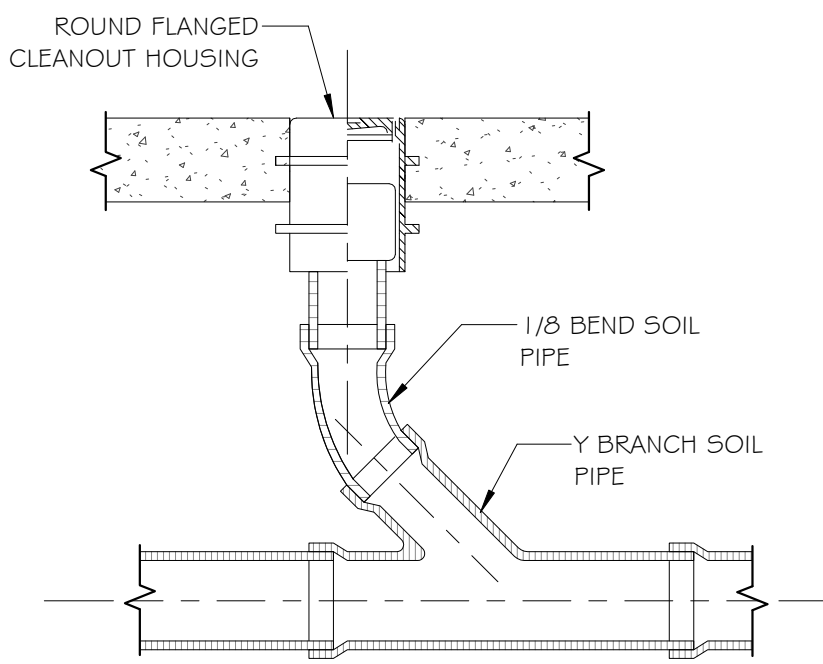
7 ROOF VENT PENETRATIPN DETAIL
N.T.S.



5 TYP. PIPE PENETRATION THRU ROOF DETAIL
N.T.S.



2 TYP. FLOOR DRAIN DETAIL
N.T.S.



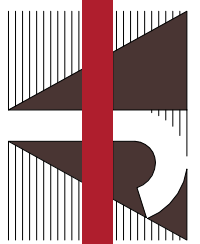
1 TYP. FLOOR CLEANOUT DETAIL
N.T.S.

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ELECTRICAL SPECIFICATIONS

I. GENERAL NOTES

I.1 BUILDING CODES AND STANDARDS

- A. ALL ELECTRICAL WORK TO CONFORM TO:
1. NFPA 70 (NATIONAL ELECTRIC CODE) - CURRENT VERSION.
 2. NECA (NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION) - STANDARD OF INSTALLATION.
 3. NETA ATS (INTERNATIONAL ELECTRICAL TESTING ASSOCIATION) - ACCEPTANCE TESTING SPECIFICATIONS FOR ELECTRICAL POWER DISTRIBUTION EQUIPMENT AND SYSTEMS.
 4. NFPA 72 (NATIONAL FIRE PROTECTION ASSOCIATION - NATIONAL FIRE ALARM CODE).
 5. ALL APPLICABLE CODES.

I.2 GENERAL REQUIREMENTS

- A. PRIOR TO CONSTRUCTION & INSTALLATION, CONTRACTOR IS TO VERIFY EXISTING CONDITIONS AND NOTIFY ARCHITECT/ENGINEER OF CONFLICTS OR CONDITIONS WHICH INTERFERE WITH INSTALLATION AS SET FORTH IN CONTRACT DOCUMENTS.
- B. CONTRACTOR RESPONSIBLE FOR ALL NEW FLOOR OPENINGS, EXCAVATIONS, AND PENETRATIONS, UNLESS SPECIFICALLY NOTED. UPON COMPLETION, ALL PENETRATIONS TO BE SEALED.
- C. ALL CUTTING AND PATCHING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS CLEARLY INDICATED AS PART OF ANOTHER PRIME CONTRACT.
- D. COORDINATE ANY NEW ROOF PENETRATIONS WITH THE OTHER TRADES.
- E. TAG UNUSED CIRCUITS AS SPARE AND SWITCH BREAKER TO THE "OFF" POSITION.
- F. ALL WORK SHOWN ON THIS DRAWING IS THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS CLEARLY INDICATED AS PART OF ANOTHER PRIME CONTRACT.
- G. PROVIDE TEMPORARY POWER DISTRIBUTION FOR ALL TRADES.
- H. MATCH OWNERS EXISTING STANDARD EQUIPMENT.
- I. COORDINATE WORK TO MINIMIZE OUTAGE DURATION.
- J. OBTAIN ALL REQUIRED REMITS & INSPECTIONS.
- K. PROVIDE FOR ELECTRICAL INSPECTIONS AND SUBMIT REPORTS TO THE OWNER.
- L. SUBMIT O&M MANUALS TO OWNER UPON COMPLETION OF WORK.
- M. PROVIDE TRAINING SESSION FOR DESIGNATED MAINTENANCE PERSONNEL.
- N. PROVIDE SUBMITTALS FOR ALL ELECTRICAL EQUIPMENT, EXCLUDING WIRE, CONDUIT, AND FASTENERS.
1. HANDHOLES.
 2. PANELBOARD - SHOP DRAWINGS INDICATE OUTLINE AND SUPPORT POINT DIMENSIONS, VOLTAGE, MAIN BUS AMPACITY, INTEGRATED SHORT CIRCUIT AMPERE RATINGS, CIRCUIT BREAKER AND FUSIBLE SWITCH ARRANGEMENT (AND SIZES) AND CATALOG DATA SHOWING SPECIFIED FEATURES OF STANDARD PRODUCTS.
 3. ENCLOSED SWITCHES - SWITCH RATINGS AND ENCLOSURE DIMENSIONS.
 4. DEVICES - MANUFACTURER'S CATALOG INFORMATION SHOWING DIMENSIONS, COLORS, AND CONFIGURATIONS.
 5. LUMINARIES (INCLUDING EMERGENCY & EXIT FIXTURES) - CATALOG INFORMATION SHOWING DIMENSIONS, RATINGS, AND PERFORMANCE DATA.
- O. SELECT MATERIALS, SIZES, AND TYPES OF ANCHORS, FASTENERS, AND SUPPORTS TO CARRY LOADS OF EQUIPMENT AND RACEWAY, INCLUDING WEIGHT OF WIRE AND CABLE IN RACEWAY.

2. RACEWAY AND BOXES

- A. PROVIDE RACEWAY AND BOXES LOCATED AS INDICATED, AND AT OTHER LOCATIONS REQUIRED FOR SPLICES, TAPS, WIRE PULLING, EQUIPMENT CONNECTIONS, AND COMPLIANCE WITH REGULATORY REQUIREMENTS. RACEWAY AND BOXES ARE SHOWN IN APPROXIMATE LOCATIONS UNLESS DIMENSIONED. PROVIDE RACEWAY TO COMPLETELY COVER WIRING.
- B. UNDERGROUND MORE THAN 6 FEET OUTSIDE FOUNDATION WALL: PROVIDE SCHEDULE 80 PVC. PROVIDE CAST METAL BOXES OR NONMETALLIC HANDHOLES WHERE REQUIRED.
- C. UNDERGROUND WITHIN 5 FEET FROM FOUNDATION WALL: PROVIDE RIGID STEEL CONDUIT OR THICKWALL NONMETALLIC CONDUIT (SCHEDULE 80 PVC). PROVIDE CAST METAL OR NONMETALLIC BOXES.
- D. IN OR UNDER SLAB ON GRADE: PROVIDE THICKWALL NONMETALLIC CONDUIT. PROVIDE CAST OR NONMETALLIC METAL BOXES.
- E. OUTDOOR LOCATIONS ABOVE GRADE: PROVIDE NON-METALLIC CONDUIT. PROVIDE NONMETALLIC OUTLET, PULL, AND JUNCTION BOXES.
- F. IN SLAB ABOVE GRADE: PROVIDE THICKWALL NONMETALLIC CONDUIT. PROVIDE CAST NONMETALLIC BOXES.
- G. WET AND DAMP LOCATIONS: PROVIDE THICKWALL NONMETALLIC CONDUIT. PROVIDE NONMETALLIC OUTLET, JUNCTION, AND PULL BOXES. PROVIDE FLUSH MOUNTING OUTLET BOX IN FINISHED AREAS.
- H. CONCEALED DRY LOCATIONS: PROVIDE ELECTRICAL METALLIC TUBING. PROVIDE SHEET-METAL BOXES. PROVIDE FLUSH MOUNTING OUTLET BOX IN FINISHED AREAS. PROVIDE HINGED ENCLOSURE FOR LARGE PULL BOXES.
- I. MINIMUM RACEWAY SIZE: 3/4 INCH UNLESS OTHERWISE SPECIFIED.
- J. ARRANGE RACEWAY AND BOXES TO MAINTAIN HEADROOM AND PRESENT NEAT APPEARANCE, GROUP RELATED RACEWAY; SUPPORT USING CONDUIT RACK; PROVIDE SPACE ON EACH FOR 25 PERCENT ADDITIONAL RACEWAYS.
- K. RACEWAY ROUTING IS SHOWN IN APPROXIMATE LOCATIONS UNLESS DIMENSIONED. ROUTE TO COMPLETE WIRING SYSTEM.
- L. DO NOT SUPPORT RACEWAY WITH WIRE, PERFORATED PIPE STRAPS, CEILING SUPPORT WIRES OR OTHER PIPING SYSTEM.
- M. ROUTE EXPOSED & ABOVE ACCESSIBLE CEILINGS RACEWAY PARALLEL AND PERPENDICULAR TO WALLS.
- N. DO NOT CROSS CONDUITS IN SLAB.
- O. INSTALL NO MORE THAN EQUIVALENT OF THREE 90 DEGREE BENDS BETWEEN BOXES. INSTALL CONDUIT BODIES TO MAKE SHARP CHANGES IN DIRECTION, AS AROUND BEAMS. INSTALL FACTORY ELBOWS FOR BENDS IN METAL CONDUIT LARGER THAN 2 INCH SIZE.
- P. AVOID MOISTURE TRAPS; INSTALL JUNCTION BOX WITH DRAIN FITTING AT LOW POINTS IN CONDUIT SYSTEM.
- Q. INSTALL FITTINGS TO ACCOMMODATE EXPANSION AND DEFLECTION WHERE RACEWAY CROSSES SEISMIC, CONTROL AND EXPANSION JOINTS.
- R. INSTALL SUITABLE PULL STRING OR CORD IN EACH EMPTY RACEWAY EXCEPT SLEEVES AND NIPPLES.
- S. CLOSE ENDS AND UNUSED OPENINGS IN WIREWAY.
- T. INSTALL PULL BOXES AND JUNCTION BOXES ABOVE ACCESSIBLE CEILINGS AND IN UNFINISHED AREAS ONLY.
- U. IN ACCESSIBLE CEILING AREAS: INSTALL OUTLET AND JUNCTION BOXES NO MORE THAN 6 INCHES FROM CEILING ACCESS PANEL OR FROM REMOVABLE RECESSED LUMINAIRE.
- V. LOCATE FLUSH MOUNTING BOX IN MASONRY WALL TO REQUIRE CUTTING OF MASONRY UNIT CORNER ONLY. COORDINATE MASONRY CUTTING TO ACHIEVE NEAT OPENING.
- W. DO NOT INSTALL FLUSH MOUNTING BOX BACK-TO-BACK IN WALLS; INSTALL WITH MINIMUM 6 INCHES SEPARATION. INSTALL WITH MINIMUM 24 INCHES SEPARATION IN ACOUSTIC RATED WALLS.
- X. DO NOT FASTEN BOXES TO CEILING SUPPORT WIRES OR OTHER PIPING SYSTEMS.
- Y. SUPPORT BOXES INDEPENDENTLY OF CONDUIT.
- Z. USE FLUSH MOUNTING OUTLET BOX IN FINISHED AREAS.
- AA. SET FLOOR BOXES LEVEL AND FLUSH WITH FINISH FLOORING MATERIAL.
- BB. INSTALL CONDUIT TO PRESERVE FIRE RESISTANCE RATING OF PARTITIONS AND OTHER ELEMENTS.
- CC. ALIGN ADJACENT WALL MOUNTED OUTLET BOXES FOR SWITCHES, THERMOSTATS, AND SIMILAR DEVICES.

2. GROUNDING SYSTEMS

- A. GROUNDING SYSTEM RESISTANCE: 25 OHMS.
- B. GROUNDING SYSTEMS:
1. MECHANICAL CONNECTORS: BRONZE CONNECTORS, SUITABLE FOR GROUNDING AND BONDING APPLICATIONS, IN CONFIGURATIONS REQUIRED FOR PARTICULAR INSTALLATION.
 2. EXOTHERMIC CONNECTIONS: EXOTHERMIC MATERIALS, ACCESSORIES, AND TOOLS FOR PREPARING AND MAKING PERMANENT FIELD CONNECTIONS BETWEEN GROUNDING SYSTEM COMPONENTS.
- D. WIRE: STANDARD COPPER.
- E. GROUNDING ELECTRODE CONDUCTOR: SIZE TO MEET NFPA 70 AND LOCAL MUNICIPALITY REQUIREMENTS.
- F. INSTALLATION:
1. EQUIPMENT GROUNDING CONDUCTOR: INSTALL SEPARATE, INSULATED CONDUCTOR WITHIN EACH FEEDER AND BRANCH CIRCUIT RACEWAY. TERMINATE EACH END ON SUITABLE HUB, BUS, OR BUSHING.
 2. DO NOT FASTEN SUPPORTS TO PIPES, DUCTS, MECHANICAL EQUIPMENT, OR CONDUIT.
 3. OBTAIN PERMISSION FROM ARCHITECT/ENGINEER BEFORE USING POWDER-ACTUATED ANCHORS OR DRILLING OR CUTTING STRUCTURAL MEMBERS.

3. HANGERS AND SUPPORTS

- A. ANCHORS & FASTENERS TO BE CORROSION RESISTANT.
- B. ANCHOR AND FASTEN ELECTRICAL PRODUCTS TO BUILDING ELEMENTS AND FINISHES AS FOLLOWS:
1. CONCRETE STRUCTURAL ELEMENTS: PROVIDE EXPANSION ANCHORS.
 2. STEEL STRUCTURAL ELEMENTS: PROVIDE BEAM CLAMPS AND SPRING STEEL CLIPS.
 3. CONCRETE SURFACES: PROVIDE EXPANSION CLAMPS.
 4. HOLLOW MASONRY, PLASTER, AND GYPSUM BOARD PARTITIONS: PROVIDE TOGGLE BOLTS AND HOLLOW WALL FASTENERS.
 5. SOLID MASONRY WALLS: PROVIDE EXPANSION ANCHORS.
 6. SHEET-METAL: PROVIDE SHEET-METAL SCREWS.
 7. WOOD ELEMENTS: PROVIDE WOOD SCREWS.
- C. SUPPORTS:
1. FABRICATE SUPPORTS FROM STRUCTURAL STEEL OR FORMED STEEL MEMBERS, RIGIDLY WELD MEMBERS OR INSTALL HEXAGON HEAD BOLTS TO PRESENT NEAT APPEARANCE WITH ADEQUATE STRENGTH AND RIGIDITY. INSTALL SPRING LOCK WASHERS UNDER NUTS.
 2. INSTALL SURFACE MOUNTED CABINETS AND PANELBOARDS WITH MINIMUM OF FOUR ANCHORS.
 3. IN WET AND DAMP LOCATIONS INSTALL STEEL CHANNEL SUPPORT TO STAND CABINETS AND PANELBOARDS 1 INCH OFF WALL.
 4. INSTALL SHEET-METAL CHANNEL TO BRIDGE STUDS ABOVE AND BELOW CABINETS AND PANELBOARDS RECESSED IN HOLLOW PARTITIONS.

4. BUILDING WIRE & CABLE

- A. PROVIDE PRODUCTS AS FOLLOWS:
1. SOLID CONSTRUCTION FOR FEEDERS AND BRANCH CIRCUITS #10 AWG AND SMALLER.
 2. STRANDED CONDUCTORS FOR CONTROL CIRCUITS.
 3. PROVIDE CONDUCTORS #12 AWG OR LARGER FOR POWER AND LIGHTING CIRCUITS.
 4. PROVIDE CONDUCTORS #16 AWG OR LARGER FOR CONTROL CIRCUITS.
 5. #10 AWG CONDUCTORS FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS LONGER THAN 75 FEET.
 6. #10 AWG CONDUCTORS FOR 20 AMPERE, 277 VOLT BRANCH CIRCUITS LONGER THAN 200 FEET.
- B. WIRING METHODS: PROVIDE THE FOLLOWING WIRING METHODS:
- A. CONCEALED DRY INTERIOR LOCATIONS: USE ONLY BUILDING WIRE, TYPE THHN/THWN INSULATION IN RACEWAY.
- B. ABOVE ACCESSIBLE CEILINGS: USE ONLY BUILDING WIRE, TYPE THHN/THWN INSULATION, IN RACEWAY OR METAL CLAD CABLE.
- C. WET OR DAMP INTERIOR LOCATIONS: USE ONLY BUILDING WIRE, TYPE THHN/THWN INSULATION, IN RACEWAY.
- D. UNDERGROUND LOCATIONS: USE ONLY BUILDING WIRE, TYPE THHN/THWN INSULATION, IN RACEWAY.
- C. WIRE AND CABLE ROUTING INDICATED IS APPROXIMATE UNLESS DIMENSIONED. INCLUDE WIRE AND CABLE LENGTHS WITHIN 10 FT OF LENGTH SHOWN.
- D. COMPLETELY AND THOROUGHLY SWAB RACEWAY BEFORE INSTALLING WIRE.
- E. NEATLY TRAIN AND LACE WIRING INSIDE BOXES, EQUIPMENT, AND PANELBOARDS.
- F. SPECIAL TECHNIQUES-BUILDING WIRE IN RACEWAY:
1. PULL CONDUCTORS INTO RACEWAY AT SAME TIME.
 2. INSTALL BUILDING WIRE #4 AWG AND LARGER WITH PULLING EQUIPMENT.
- G. SPECIAL TECHNIQUES - CABLE:
1. PROTECT EXPOSED CABLE FROM DAMAGE.
 2. SUPPORT CABLES ABOVE ACCESSIBLE CEILING, USING SPRING METAL CLIPS OR CABLE TIES TO SUPPORT CABLES FROM STRUCTURE OR CEILING SUSPENSION SYSTEM. DO NOT REST CABLE ON CEILING PANELS.
 3. USE SUITABLE CABLE FITTINGS AND CONNECTORS.
- H. SPECIAL TECHNIQUES - DIRECT BURIAL CABLE:
1. TRENCH AND BACKFILL FOR DIRECT BURIAL CABLE INSTALLATION. INSTALL WARNING TAPE ALONG ENTIRE LENGTH OF DIRECT BURIAL CABLE, WITHIN 3 INCHES OF GRADE.
 2. USE SUITABLE DIRECT BURIAL CABLE FITTINGS AND CONNECTORS.
- I. SPECIAL TECHNIQUES - WIRING CONNECTIONS:
1. CLEAN CONDUCTOR SURFACES BEFORE INSTALLING LUGS AND CONNECTORS.
 2. MAKE SPLICES, TAPS, AND TERMINATIONS TO CARRY FULL AMPACITY OF CONDUCTORS WITH NO PERCEPTIBLE TEMPERATURE RISE.
 3. TAPE UNINSULATED CONDUCTORS AND CONNECTORS WITH ELECTRICAL TAPE TO 150 PERCENT OF INSULATION RATING OF CONDUCTOR.
 4. INSTALL SPLIT BOLT CONNECTORS OR MULTI-TAP BLOCKS FOR COPPER CONDUCTOR SPLICES AND TAPS, #6 AWG AND LARGER.
 5. USE SUITABLE PRESSURE CONNECTORS WITH INSULATING COVERS FOR COPPER CONDUCTOR SPLICES AND TAPS, #6 AWG AND SMALLER.
 6. INSTALL INSULATED SPRING WIRE CONNECTORS WITH PLASTIC CAPS FOR COPPER CONDUCTOR SPLICES AND TAPS, #10 AWG AND SMALLER.
 7. TERMINATE EXISTING ALUMINUM CONDUCTORS WITH TIM-PLATED, ALUMINUM-BODIED COMPRESSION CONNECTORS ONLY. FILL WITH ANTI-OXIDANT COMPOUND BEFORE INSTALLING CONDUCTOR.
 8. INSTALL SUITABLE REDUCING CONNECTORS OR MECHANICAL CONNECTOR ADAPTORS FOR CONNECTING ALUMINUM CONDUCTORS TO COPPER CONDUCTORS.
- J. GROUND CONDUCTORS:
1. FOR #6 AWG AND SMALLER: GREEN.
 2. FOR #4 AWG AND LARGER: IDENTIFY WITH GREEN TAPE AT BOTH ENDS AND VISIBLE POINTS INCLUDING JUNCTION BOXES.
- K. ALL WIRING SHALL BE #12 CU UNLESS SPECIFIED OTHERWISE.

5. IDENTIFICATION

- A. IDENTIFY ELECTRICAL COMPONENTS AS FOLLOWS:
1. ENGRAVED LAMINATED PLASTIC NAMEPLATE FOR EACH ELECTRICAL DISTRIBUTION, CONTROL EQUIPMENT ENCLOSURE, AND COMMUNICATION CABINET.
 2. CLOTH TYPE WIRE MARKER FOR EACH CONDUCTOR AT PANELBOARD GUTTERS, AND PULL BOXES.
 3. RACEWAY MARKER FOR EACH RACEWAY WHERE IT STUBS ABOVE THE CEILING OR BELOW THE FLOOR.
 4. UNDERGROUND WARNING TAPE ALONG LENGTH OF EACH UNDERGROUND RACEWAY OR CABLE, 3" BELOW FINISHED GRADE. TAPE TO BE 4-INCH WIDE PLASTIC TAPE, DETECTABLE TYPE, COLORED YELLOW WITH SUITABLE WARNING LEGEND DESCRIBING BURIED ELECTRICAL LINES.

6. SEALING AND FIREPROOFING

- A. INSTALL FIRESTOPPING TO MAINTAIN ALL RATINGS AT ALL FIRE SEPARATIONS.
1. SEAL OPENINGS AS FOLLOWS:
- a. INSTALL 1/2 GAUGE STEEL SLEEVE THROUGH OPENING AND EXTENDING BEYOND MINIMUM OF 1 INCH ON EACH SIDE OF BUILDING ELEMENT.
 - b. SIZE SLEEVE ALLOWING MINIMUM OF 1 INCH VOID BETWEEN SLEEVE AND BUILDING ELEMENT.
 - c. PACK VOID WITH BACKING MATERIAL.
 - d. SEAL ENDS OF SLEEVE WITH UL LISTED FIRE RESISTIVE SILICONE COMPOUND TO MEET FIRE RATING OF STRUCTURE PENETRATED.
2. WHERE CABLE TRAY, BUS, CABLE BUS, CONDUIT, WIREWAY, OR TROUGH PENETRATES FIRE RATED SURFACE, INSTALL FIRESTOPPING PRODUCT IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTRUCTIONS.
- B. NON-RATED SURFACES:
1. SEAL OPENING THROUGH NON-FIRE RATED ROOF OPENING AS FOLLOWS:
- a. INSTALL 1/2 GAUGE STEEL SLEEVE THROUGH OPENING AND EXTENDING BEYOND MINIMUM OF 1 INCH ON EACH SIDE OF BUILDING ELEMENT.
 - b. SIZE SLEEVE ALLOWING MINIMUM OF 1 INCH VOID BETWEEN SLEEVE AND BUILDING ELEMENT.
 - c. INSTALL TYPE OF FIRESTOPPING MATERIAL RECOMMENDED BY MANUFACTURER.
2. EXTERIOR WALL OPENINGS BELOW GRADE: ASSEMBLE RUBBER LINKS OF MECHANICAL SEAL TO SIZE OF CONDUIT AND TIGHTEN IN PLACE, IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

7. PANELBOARDS

- A. MANUFACTURERS:
1. EATON/CUTLER-HAMMER.
 2. GE ELECTRICAL.
 3. SIEMENS/ITE.
 4. SQUARE D MODEL.
- B. BOLT-ON CIRCUIT BREAKER TYPE, DISTRIBUTION, LIGHTING AND APPLIANCE BRANCH CIRCUIT PANELBOARD.
- C. PANELBOARD BUS: COPPER CURRENT CARRYING COMPONENTS, RATINGS AS INDICATED ON DRAWINGS. FURNISH COPPER GROUND BUS IN EACH PANELBOARD; FURNISH INSULATED GROUND BUS AS INDICATED ON DRAWINGS.
- D. MINIMUM INTEGRATED SHORT CIRCUIT RATING: 22,000 AMPERES RMS SYMMETRICAL FOR 240 VOLT PANELBOARDS; 65,000 AMPERES RMS SYMMETRICAL FOR 480 VOLT PANELBOARDS.
- E. MOLDED CASE CIRCUIT BREAKERS: NEMA AB 1, BOLT-ON TYPE THERMAL MAGNETIC TRIP CIRCUIT BREAKERS, WITH COMMON TRIP HANDLE FOR ALL POLES, LISTED AS TYPE SWD FOR LIGHTING CIRCUITS, TYPE HACR FOR AIR CONDITIONING EQUIPMENT CIRCUITS, CLASS A GROUND FAULT INTERRUPTER CIRCUIT BREAKERS AS INDICATED ON DRAWINGS. DO NOT USE TANDEM CIRCUIT BREAKERS.
- F. ENCLOSURE: NEMA PB 1, TYPE 1.
- G. CABINET BOX: 6 INCHES DEEP, 20 INCHES WIDE FOR 240 VOLT AND LESS PANELBOARDS, 20 INCHES WIDE FOR 480 VOLT PANELBOARDS.
- H. CABINET FRONT: SURFACE DOOR-IN-DOOR TYPE, FASTENED WITH HINGE AND LATCH, HINGED DOOR WITH FLUSH LOCK, METAL DIRECTORY FRAME, FINISHED IN MANUFACTURER'S STANDARD GRAY ENAMEL. OUTER PANELBOARD TRIMS SHALL COVER ALL LIVE PARTS. SWITCHING DEVICE HANDLES SHALL BE ACCESSIBLE. SURFACE TRIMS SHALL BE SAME HEIGHT AND WIDTH AS BOX. FLUSH TRIMS SHALL OVERLAP THE BOX BY 3/4 OF AN INCH ON ALL SIDES.
- I. INSTALL RECESSED PANELBOARDS FLUSH WITH WALL FINISHES.
- K. HEIGHT: 6 FEET TO TOP OF PANELBOARD; INSTALL PANELBOARDS TALLER THAN 6 FEET WITH BOTTOM NO MORE THAN 4 INCHES ABOVE FLOOR.
- L. INSTALL FILLER PLATES FOR UNUSED SPACES IN PANELBOARDS.
- M. PROVIDE TYPED CIRCUIT DIRECTORY FOR EACH BRANCH CIRCUIT PANELBOARD PER ARCHITECTURAL ROOM DESIGNATIONS. REVISE DIRECTORY TO REFLECT CIRCUITING CHANGES TO BALANCE PHASE LOADS.
- N. MARK UNUSED CIRCUIT BREAKERS AS SPARE AND SWITCH TO OFF POSITION.
- O. MEASURE STEADY STATE LOAD CURRENTS AT EACH PANELBOARD FEEDER; REARRANGE CIRCUITS IN PANELBOARD TO BALANCE PHASE LOADS TO WITHIN 20 PERCENT OF EACH OTHER. MAINTAIN PROPER PHASING FOR MULTI-WIRE BRANCH CIRCUITS.

8. ENCLOSED SWITCHES

- A. MANUFACTURERS:
1. CUTLER-HAMMER.
 2. SQUARE D.
 3. GE ELECTRICAL.
 4. SIEMENS.
- B. PRODUCT DESCRIPTION: NEMA KS 1, TYPE HD WITH EXTERNALLY OPERABLE HANDLE INTERLOCKED TO PREVENT OPENING FRONT COVER WITH SWITCH IN ON POSITION, ENCLOSED LOAD INTERRUPTER KNIFE SWITCH. HANDLE LOCKABLE IN OFF POSITION, WITH PROVISIONS FOR THREE PADLOCKS.
- C. SWITCH MECHANISM: TO BE QUICK-MAKE, QUICK-BREAK SUCH THAT, DURING NORMAL OPERATION OF THE SWITCH, THE OPERATION OF THE CONTACTS SHALL NOT BE CAPABLE OF BEING RESTRAINED BY THE OPERATING HANDLE AFTER THE CLOSING OF OPENING ACTION OF THE CONTACTS HAS STARTED.
- D. FUSE CLIPS: DESIGNED TO ACCOMMODATE NEMA FU 1, CLASS R, J FUSES.
- E. ENCLOSURE: NEMA CONFIGURATION TO MEET CONDITIONS:
1. INTERIOR DRY LOCATIONS: TYPE 1.
 2. EXTERIOR LOCATIONS: TYPE 3R.
 3. INDUSTRIAL LOCATIONS: TYPE 4X.
- F. SERVICE ENTRANCE: SWITCHES IDENTIFIED FOR USE AS SERVICE EQUIPMENT ARE TO BE LABELED FOR THIS APPLICATION. FURNISH SOLID NEUTRAL ASSEMBLY AND EQUIPMENT GROUND BAR.
- G. FURNISH SWITCHES WITH CURRENT CARRYING PARTS ENTIRELY OF COPPER.
- H. SWITCH RATING: HORSEPOWER RATED FOR AC AS INDICATED ON DRAWINGS.
- I. SHORT CIRCUIT CURRENT RATING: 200,000 RMS SYMMETRICAL AMPERES WHEN USED WITH OR PROTECTED BY CLASS R OR CLASS J FUSES (30-600 AMPERE SWITCHES EMPLOYING APPROPRIATE FUSE REJECTION SCHEDULES).
- J. HEIGHT: 5 FEET TO OPERATING HANDLE.
- K. INSTALL FUSES FOR FUSIBLE DISCONNECT SWITCHES.

9. WIRING DEVICES

- A. MANUFACTURERS:
1. PASS & SEYMOUR LEGRAND.
 2. HUBELL.
 3. LEVITON.
 4. GENERAL ELECTRIC.
- B. PRODUCT DESCRIPTION: NEMA WD 1, HEAVY-DUTY, AC ONLY SPECIFICATION GRADE SWITCH/RECEPTACLE, ALL DEVICES TO BE SPECIFICATION GRADE OR BETTER.
- C. BODY / HANDLE: IVORY PLASTIC WITH TOGGLE HANDLE.
- D. RATINGS: MATCH BRANCH CIRCUIT AND LOAD CHARACTERISTICS, MINIMUM 20A.
- E. GFCI RECEPTACLE: CONVENIENCE RECEPTACLE WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER TO MEET REGULATORY REQUIREMENTS.
- F. WP RECEPTACLE: (WEATHERPROOF) TO BE GFI PROTECTED.

10. WALL PLATES

- MANUFACTURERS:
- a. PASS & SEYMOUR LEGRAND.
 - b. TAYMAC 205 10 (WEATHERPROOF-IN-USE).
 - c. HUBELL (BELL/ACO).
 - d. LEVITON.
 - e. GENERAL ELECTRIC.
- B. INSTALL DECORATIVE PLATES ON SWITCH, RECEPTACLE, AND BLANK OUTLETS IN FINISHED AREAS. DECORATIVE COVER PLATE: NYLON.
- C. INSTALL JUMBO SIZE PLATES FOR OUTLETS INSTALLED IN MASONRY WALLS. JUMBO COVER PLATE: NYLON.
- D. WEATHERPROOF COVER PLATE (RECEPTACLE): IMPACT RESISTANT PLASTIC PLATE WITH HINGED AND GASKETED DEVICE COVER. COVER TO BE RATED FOR WET LOCATION WHILE IN USE, AND TO BE LOCKABLE.
- E. WEATHERPROOF COVER PLATE (SWITCH): GASKETED CAST METAL PLATE WITH HINGED AND GASKETED DEVICE COVER OR LEVER SWITCH MECHANISM. (#45 CA-31 G/HUBELL/BELL/ACO 5125 OR EQUAL).
- F. KITCHEN AREAS: 302/430 STAINLESS STEEL, WEATHERPROOF FOR STARTUPS.
- G. INSTALL GALVANIZED (STAMPED) STEEL PLATES ON OUTLET BOXES AND JUNCTION BOXES IN UNFINISHED AREAS, ABOVE ACCESSIBLE CEILINGS, AND ON SURFACE MOUNTED OUTLETS.
- H. INSTALL DEVICES PLUMB AND LEVEL.
- I. INSTALL SWITCHES WITH OFF POSITION DOWN.
- J. INSTALL RECEPTACLES WITH GROUNDING POLE ON TOP, OR TO THE LEFT (IF MOUNTED HORIZONTALLY).
- K. CONNECT WIRING DEVICE GROUNDING TERMINAL TO OUTLET BOX WITH BONDING JUMPER AND BRANCH CIRCUIT EQUIPMENT GROUNDING CONDUCTOR.
- L. CONNECT WIRING DEVICES BY WRAPPING SOLID CONDUCTOR AROUND SCREW TERMINAL. INSTALL STRANDED CONDUCTOR FOR BRANCH CIRCUITS #10 AWG AND SMALLER. WHEN STRANDED CONDUCTORS ARE USED IN lieu OF SOLID, USE CRIMP ON FORK TERMINALS FOR DEVICE TERMINATIONS. DO NOT PLACE STRANDED CONDUCTORS DIRECTLY UNDER DEVICE SCREWS.
- M. ADJUST DEVICES AND WALL PLATES TO BE FLUSH AND LEVEL.

11. INTERIOR LUMINARIES

- A. ALL FIXTURES TO BE SPECIFICATION GRADE OR BETTER.
- B. INSTALL SUSPENDED LUMINARIES USING PENDANTS SUPPORTED FROM SWIVEL HANGERS; INSTALL PENDANT LENGTH REQUIRED TO SUSPEND LUMINAIRE AT INDICATED HEIGHT.
- C. SUPPORT LUMINARIES LARGER THAN 2x4 SIZE INDEPENDENT OF CEILING FRAMING.
- D. INSTALL SURFACE MOUNTED LUMINARIES PLUMB AND ADJUST TO ALIGN WITH BUILDING LINES AND WITH EACH OTHER. SECURE TO PREVENT MOVEMENT.
- E. EXPOSE GRID CEILINGS: SUPPORT SURFACE-MOUNTED LUMINARIES ON GRID CEILING DIRECTLY FROM BUILDING. FASTEN SURFACE MOUNTED LUMINARIES TO CEILING GRID MEMBERS USING BOLTS, SCREWS, RIVETS, OR SUITABLE CLIPS.
- F. INSTALL RECESSED LUMINARIES TO PERMIT REMOVAL FROM BELOW.
- G. INSTALL RECESSED LUMINARIES USING ACCESSORIES AND FIRESTOPPING MATERIALS TO MEET REGULATORY REQUIREMENTS FOR FIRE RATING.
- H. INSTALL CLIPS TO SECURE RECESSED GRID-SUPPORTED LUMINARIES IN PLACE.
- I. CONNECT LUMINARIES TO BRANCH CIRCUIT OUTLETS USING FLEXIBLE CONDUIT. MAXIMUM LENGTH FIXTURE WHIP TO BE 5 FEET.
- J. MAKE WIRING CONNECTIONS TO BRANCH CIRCUIT USING BUILDING WIRE WITH INSULATION SUITABLE FOR TEMPERATURE CONDITIONS WITHIN LUMINAIRE.
- K. INSTALL SPECIFIED LAMPS IN EACH LUMINAIRE.
- L. AIM AND ADJUST LUMINARIES TO PROVIDE LIGHT LEVELS CONSISTENT WITH DESIGN.

12. EMERGENCY LIGHTING

- A. MANUFACTURERS:
1. AS SPECIFIED IN LIGHT FIXTURE SCHEDULE.
- B. PRODUCT DESCRIPTION: SELF-CONTAINED INCANDESCENT (HALOGEN) EMERGENCY LIGHTING UNIT, WITH SELF-TEST DIAGNOSTICS.
- C. BATTERY: 12 VOLT, NICKEL-CADMIUM TYPE, WITH 1.5 HOUR CAPACITY.
- D. BATTERY CHARGER: DUAL-RATE TYPE, WITH SUFFICIENT CAPACITY TO RECHARGE DISCHARGED BATTERY TO FULL CHARGE WITHIN TWELVE HOURS.
- E. LAMPS: 12 WATT MINIMUM, SEALED BEAM TYPE IN NICKEL OR CHROME PLATED STEEL HOUSING.
- F. HOUSING: WHITE PLASTIC.
- G. INDICATORS: LAMPS TO INDICATE AC ON AND RECHARGING. VOLTMETER TO INDICATE BATTERY VOLTAGE.
- H. TEST SWITCH: TRANSFERS UNIT FROM EXTERNAL POWER SUPPLY TO INTEGRAL BATTERY SUPPLY.
- I. AIM AND ADJUST LAMP FIXTURES TO PROVIDE OPTIMAL COVERAGE.

EXIT SIGNS

- A. MANUFACTURERS:
1. AS SPECIFIED BY LIGHT FIXTURE SCHEDULE OR EQUAL.
- B. PRODUCT DESCRIPTION: EXIT SIGN FIXTURE, WITH SELF-TEST DIAGNOSTICS.
- C. FACE: STENCIL FACE WITH RED LETTERS.
- D. DIRECTIONAL ARROWS: UNIVERSAL TYPE FOR FIELD ADJUSTMENT.
- E. MOUNTING: AS INDICATED ON DRAWINGS OR UNIVERSAL FOR FIELD SELECTION.
- F. BATTERY: 12 VOLT, NICKEL-CADMIUM TYPE, WITH 1.5 HOUR CAPACITY.
- G. BATTERY CHARGER: DUAL-RATE TYPE, WITH SUFFICIENT CAPACITY TO RECHARGE DISCHARGED BATTERY TO FULL CHARGE WITHIN TWELVE HOURS.
- H. LAMPS: LED.
- I. INPUT VOLTAGE: 120 VOLTS.
- J. POSITION EXIT SIGN DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS.

FIRE ALARM SYSTEM

- A. SYSTEM DESCRIPTION: NONCODED ADDRESSABLE SYSTEM, WITH AUTOMATIC SENSITIVITY CONTROL OF CERTAIN SMOKE DETECTORS AND MULTIPLEXED SIGNAL TRANSMISSION, DEDICATED TO FIRE-ALARM SERVICE ONLY.
- B. SUBMITTALS:
1. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.
- C. FIELD QUALITY-CONTROL REPORTS
1. OPERATION AND MAINTENANCE DATA: FOR FIRE-ALARM SYSTEMS AND COMPONENTS TO INCLUDE IN EMERGENCY, OPERATION, AND MAINTENANCE MANUALS.
- D. INSTALLER QUALIFICATIONS:
1. PERSONNEL SHALL BE TRAINED AND CERTIFIED BY MANUFACTURER FOR INSTALLATION OF UNITS.
 2. INSTALLATION SHALL BE BY PERSONNEL CERTIFIED BY NICET AS FIRE-ALARM TECHNICIAN.
- E. OBTAIN FIRE-ALARM SYSTEM FROM SINGLE SOURCE FROM SINGLE MANUFACTURER. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.
- F. FIRE-ALARM SIGNAL INITIATION SHALL BE BY ONE OR MORE OF THE FOLLOWING DEVICES:
1. MANUAL STATIONS.
 2. HEAT DETECTORS.
 3. SMOKE DETECTORS.
- G. CONTINUOUSLY OPERATE ALARM NOTIFICATION APPLIANCES.
- H. IDENTIFY ALARM AT FIRE-ALARM CONTROL UNIT AND REMOTE ANNUNCIATORS.
- I. TRANSMIT AND ALARM SIGNAL TO THE REMOTE ALARM RECEIVING STATION.
- J. GENERAL REQUIREMENTS FOR FIRE-ALARM CONTROL UNIT:
1. FIELD-PROGRAMMABLE, MICROPROCESSOR-BASED, MODULAR, POWER-LIMITED DESIGN WITH ELECTRONIC MODULES, COMPLYING WITH UL 864 AND LISTED AND LABELED BY AN NRTL.
 2. ADDRESSABLE CONTROL CIRCUITS FOR OPERATION OF MECHANICAL EQUIPMENT.
 3. ALPHANUMERIC DISPLAY AND SYSTEM CONTROLS: ARRANGED FOR INTERFACE BETWEEN HUMAN OPERATOR AT FIRE-ALARM CONTROL UNIT AND ADDRESSABLE SYSTEM COMPONENTS INCLUDING ANNUNCIATION AND SUPERVISION. DISPLAY ALARM, SUPERVISORY, AND COMPONENT STATUS MESSAGES AND THE PROGRAMMING AND CONTROL MENU.
 4. KEYPAD: ARRANGED TO PERMIT ENTRY AND EXECUTION OF PROGRAMMING, DISPLAY AND CONTROL COMMANDS AND TO INDICATE CONTROL COMMANDS TO BE ENTERED INTO THE SYSTEM FOR CONTROL OF SMOKE-DETECTOR SENSITIVITY AND OTHER PARAMETERS.
- K. ADDRESSABLE INITIATION DEVICES THAT COMMUNICATE DEVICE IDENTITY AND STATUS.
- L. SMOKE SENSORS SHALL ADDITIONALLY COMMUNICATE SENSITIVITY SETTING AND ALLOW FOR ADJUSTMENT OF SENSITIVITY AT FIRE-ALARM CONTROL UNIT.
- M. TEMPERATURE SENSORS SHALL ADDITIONALLY TEST FOR AND COMMUNICATE THE SENSITIVITY RANGE OF THE DEVICE.
- N. ANNUNCIATOR AND DISPLAY: LIQUID-CRYSTAL TYPE, 1 LINE(S) OF 40 CHARACTERS, MINIMUM.
- O. INITIATING DEVICE, NOTIFICATION APPLIANCE, AND SIGNALING LINE CIRCUITS: NFPA 72, CLASS B.
- P. AUTOMATICALLY TRANSMIT ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO A REMOTE ALARM STATION.
- Q. GENERAL REQUIREMENTS FOR MANUAL FIRE-ALARM BOXES: COMPLY WITH UL 38. BOXES SHALL BE FINISHED IN RED WITH MOLDED, RAISED-LETTER OPERATING INSTRUCTIONS IN CONTRASTING COLOR; SHALL SHOW VISIBLE INDICATION OF OPERATION; AND SHALL BE MOUNTED ON RECESSED OUTLET BOX. IF INDICATED AS SURFACE MOUNTED, PROVIDE MANUFACTURER'S SURFACE BACK BOX.
- R. DOUBLE-ACTION MECHANISM REQUIRING TWO ACTIONS TO INITIATE AN ALARM, PULL-LEVER TYPE, WITH INTEGRAL ADDRESSABLE MODULE ARRANGED TO COMMUNICATE MANUAL-STATION STATUS (NORMAL, ALARM, OR TROUBLE) TO FIRE-ALARM CONTROL UNIT.
- S. STATION RESET: KEY- OR WRENCH-OPERATED SWITCH.
- T. GENERAL REQUIREMENTS FOR SYSTEM SMOKE DETECTORS:
- U. AN OPERATOR AT FIRE-ALARM CONTROL UNIT, HAVING THE DESIGNATED ACCESS LEVEL, SHALL BE ABLE TO MANUALLY ACCESS THE FOLLOWING FOR EACH DETECTOR:
1. PRIMARY STATUS.
 2. DEVICE TYPE.
 3. PRESENT AVERAGE VALUE.
 4. PRESENT SENSITIVITY SELECTED.
 5. SENSOR RANGE (NORMAL, DIRTY, ETC.).
- V. HEAT DETECTORS, GENERAL REQUIREMENTS FOR HEAT DETECTORS: COMPLY WITH UL 521.
- W. REMOTE ANNUNCIATOR:
1. ANNUNCIATOR FUNCTIONS SHALL MATCH THOSE OF FIRE-ALARM CONTROL UNIT FOR ALARM, SUPERVISORY, AND TROUBLE INDICATIONS. MANUAL SWITCHING FUNCTIONS SHALL MATCH THOSE OF FIRE-ALARM CONTROL UNIT, INCLUDING ACKNOWLEDGING, SILENCING, RESETTING, AND TESTING.
 2. MOUNTING: FLUSH CABINET, NEMA 250, TYPE 1.
 3. DISPLAY TYPE AND FUNCTIONAL PERFORMANCE: ALPHANUMERIC DISPLAY AND LED INDICATING LIGHTS SHALL MATCH THOSE OF FIRE-ALARM CONTROL UNIT. PROVIDE CONTROLS TO ACKNOWLEDGE, SILENCE, RESET, AND TEST FUNCTIONS FOR ALARM, SUPERVISORY, AND TROUBLE SIGNALS.
- X. EQUIPMENT INSTALLATION:
1. COMPLY WITH NFPA 72 FOR INSTALLATION OF FIRE-ALARM EQUIPMENT.
 2. INSTALL WALL-MOUNTED EQUIPMENT, WITH TOPS OF CABINETS NOT MORE THAN 72 INCHES (1830 MM) ABOVE FINISHED FLOOR.
- Y. LOCATE DETECTORS NOT CLOSER THAN 3 FEET (1 M) FROM AIR-SUPPLY DIFFUSER OR RETURN-AIR OPENING.
- Z. LOCATE DETECTORS NOT CLOSER THAN 12 INCHES (300 MM) FROM ANY PART OF A LIGHTING FIXTURE.
- AA. AA. FIRE-ALARM CONTROL UNIT: SURFACE MOUNTED, WITH TOPS OF CABINETS NOT MORE THAN 72 INCHES (1830 MM) ABOVE THE FINISHED FLOOR.
- BB. GROUND FIRE-ALARM CONTROL UNIT AND ASSOCIATED CIRCUITS: COMPLY WITH IEEE 1100. INSTALL A GROUND WIRE FROM MAIN SERVICE GROUND TO FIRE-ALARM CONTROL UNIT.
- CC. ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO TRAIN OWNER'S MAINTENANCE PERSONNEL TO ADJUST, OPERATE, AND MAINTAIN FIRE-ALARM SYSTEM.

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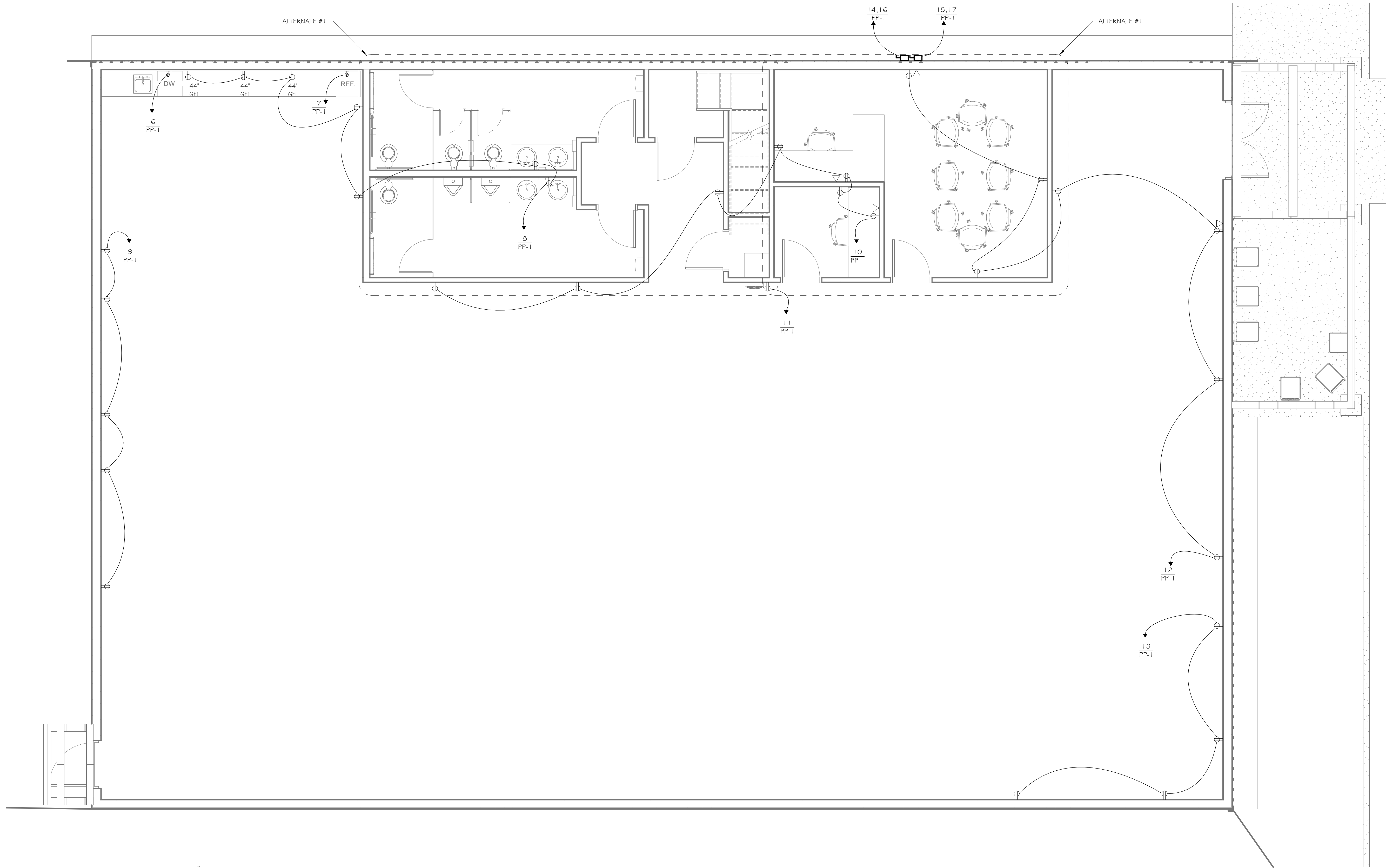
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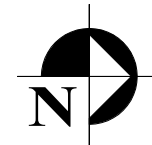
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1 FIRST FLOOR POWER PLAN
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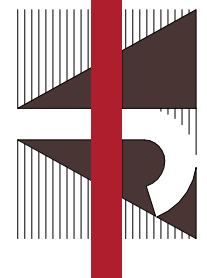


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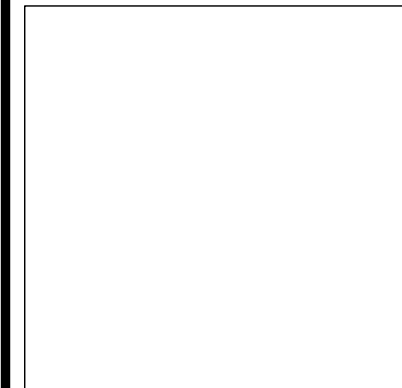
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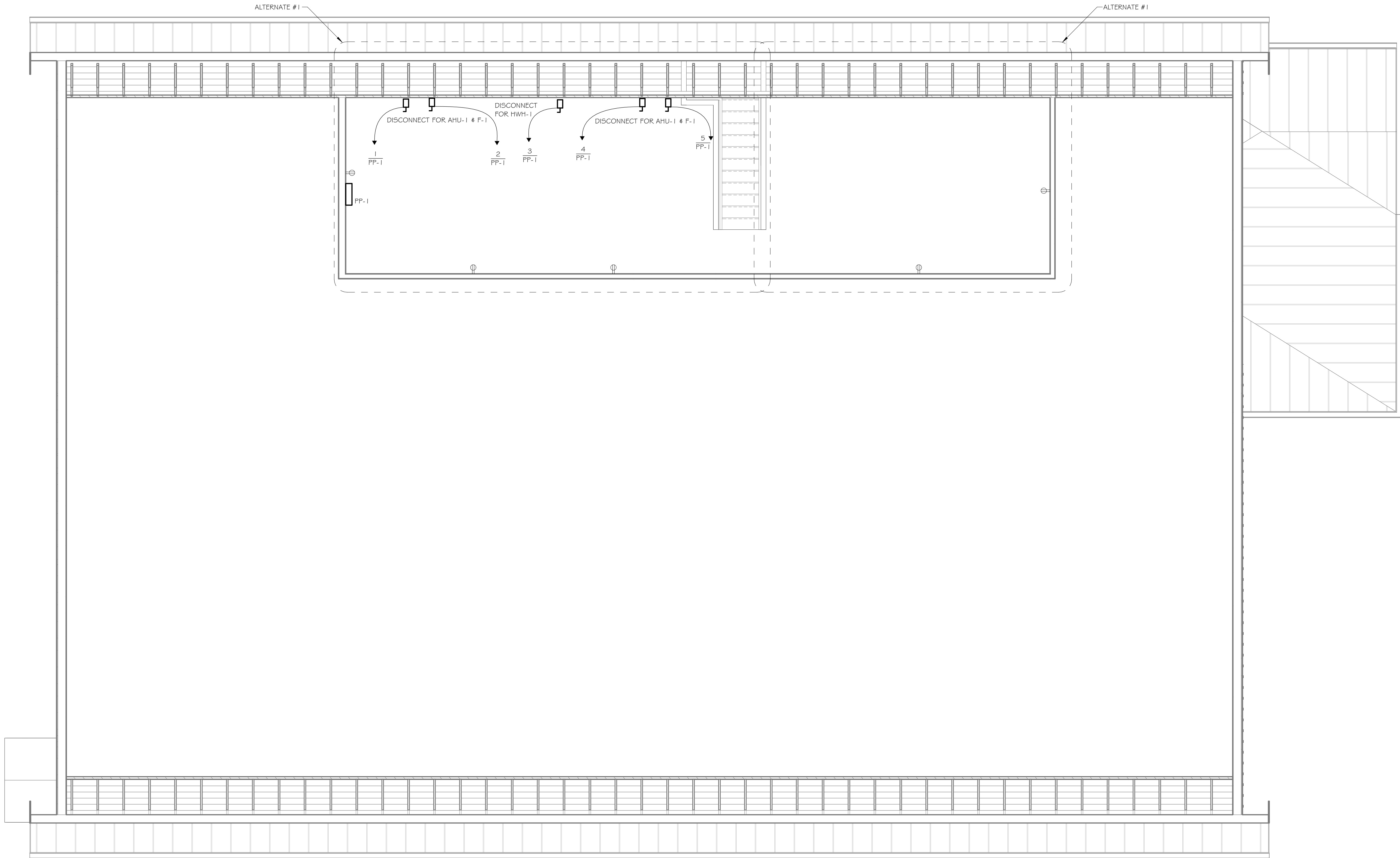
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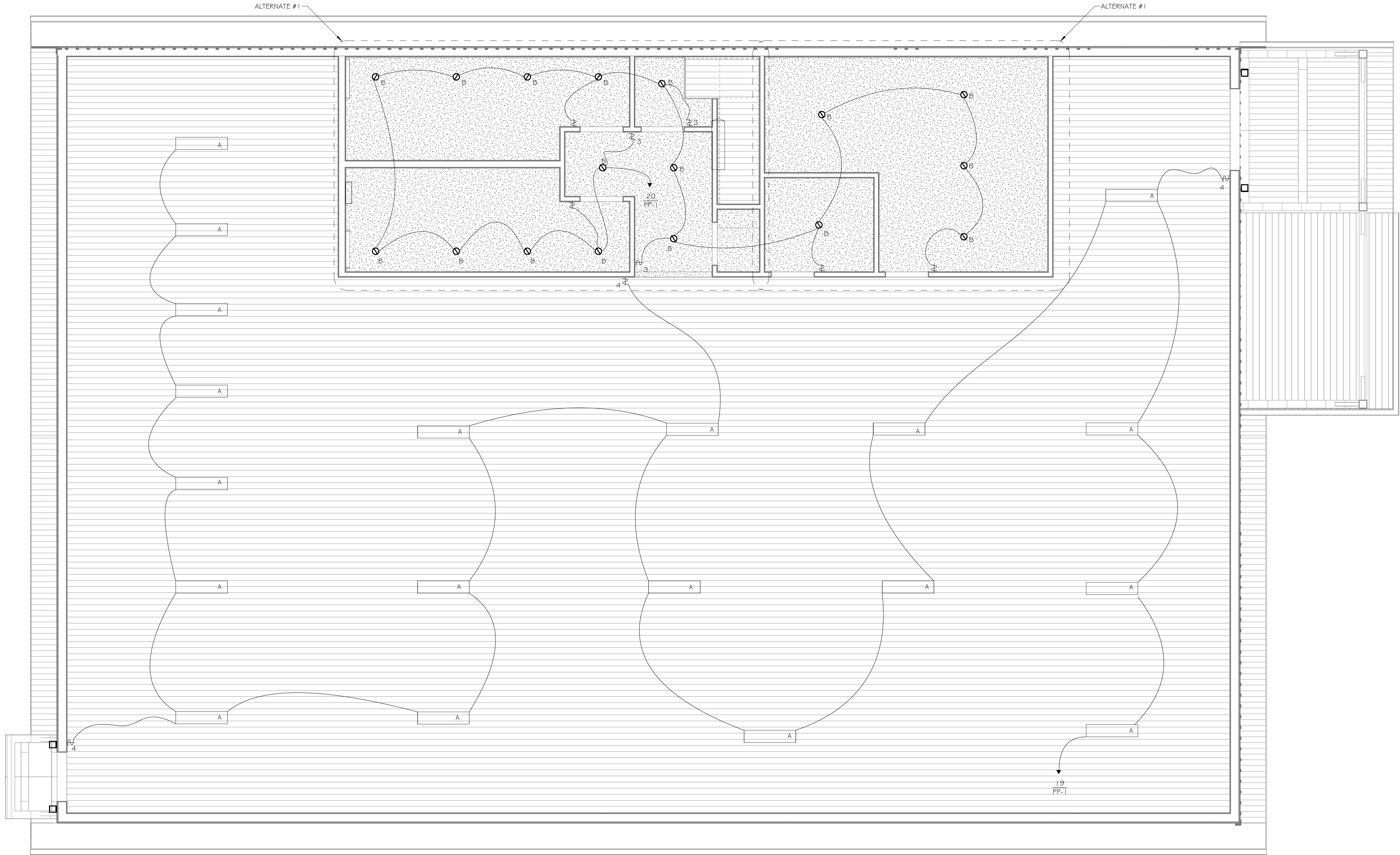
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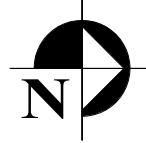
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1 FIRST FLOOR LIGHTING PLAN
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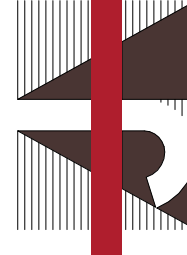


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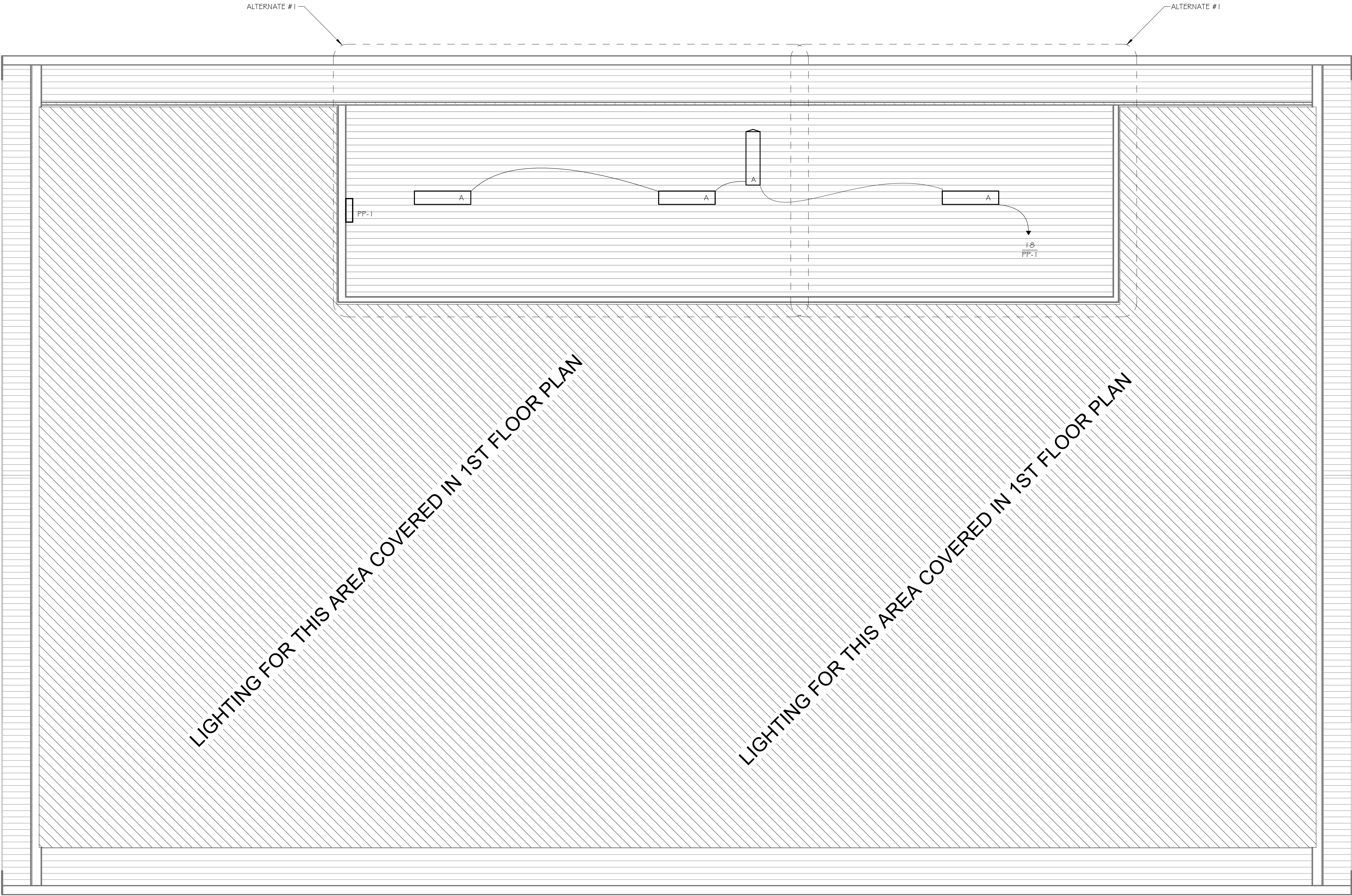
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1 SECOND FLOOR LIGHTING PLAN
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