CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE

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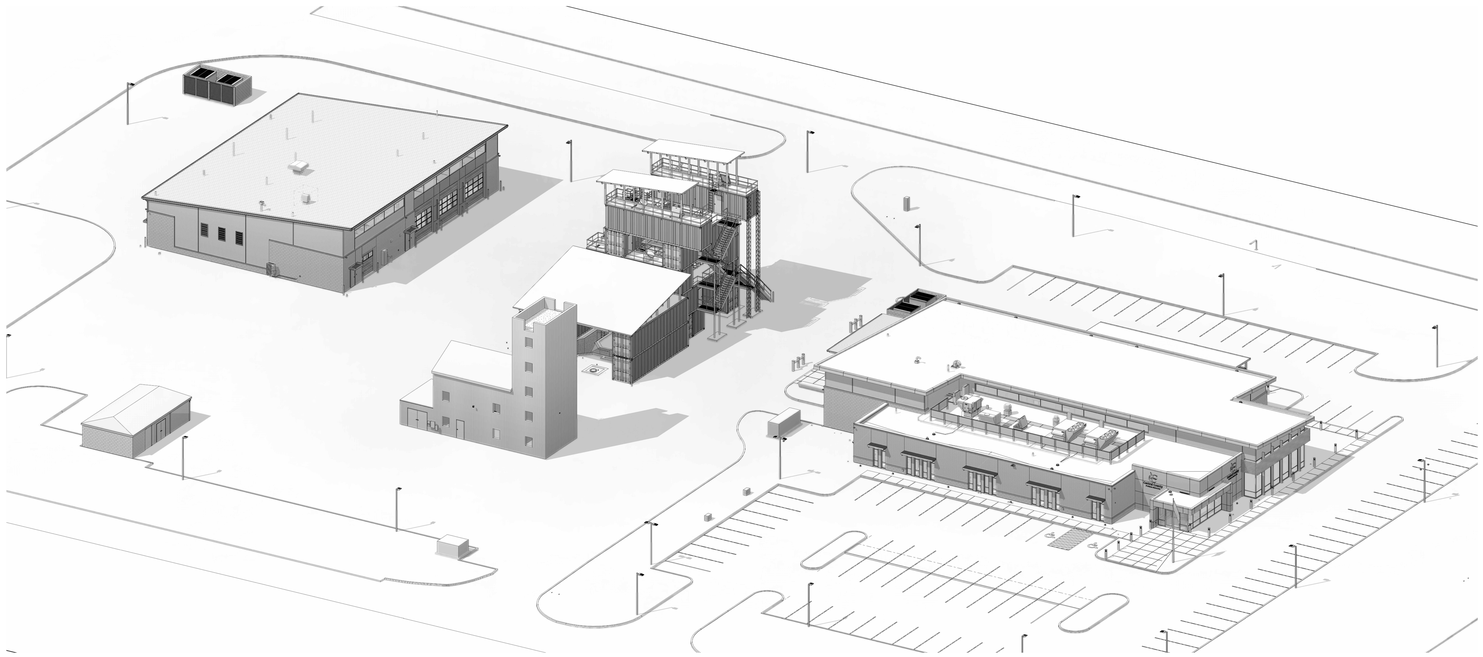

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PROJECT ADDRESS

CENTRAL COUNTY
360/340 ECOLOGY DRIVE
ST. PETERS, MO 63376

APPLICABLE CODES

- 2021 INTERNATIONAL BUILDING CODE
- 2021 INTERNATIONAL FIRE CODE
- 2020 NATIONAL ELECTRICAL CODE (NFPA 70)
- 2021 INTERNATIONAL ENERGY CONSERVATION CODE
- 2021 INTERNATIONAL MECHANICAL CODE
- 2021 INTERNATIONAL FUEL GAS CODE
- 2021 INTERNATIONAL PLUMBING CODE
- 2021 INTERNATIONAL PROPERTY MAINTENANCE CODE
- 2020 ICC 500 (STORM SHELTER CODE)

PROJECT LOCATION



STATE MAP

MO



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CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE
ST. PETERS, MO 63376
360/340 ECOLOGY DRIVE

No.	Date	Revision

COVER SHEET

Project No. 23121

Sheet No. G000

Date 09/16/2025

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CENTRAL COUNTY FIRE &
RESCUE HEADQUARTERS /
TRAINING / MAINTENANCE
360/340 ECOLOGY DRIVE

No.	Date	Revision

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Project No.
23121

Sheet No.
G001

Date
09/16/2025

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ARCHITECTURAL ABBREVIATIONS

&	AND
<	ANGLE
@	AT
AACP	ACOUSTICAL CEILING PANEL
AB	ANCHOR BOLT
ACCS PL	ACCESS PANEL
ACOUS, ACS	ACOUSTIC(AL)
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN, ADHESIVE
ADDL	ADDITIONAL
ADJ	ADJUSTABLE, ADJACENT
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AFS	ABOVE FINISH SLAB
AGGRE	AGGREGATE
ALT	ALTERNATE
ALUM, AL	ALUMINIMUM
AND	ANODIZED
APPROX	APPROXIMAGE(LY)
ARCH	ARCHITECT(URAL)
ASPH	ASPHALT
AVG	AVERAGE

BB	BULLETIN BOARD
BD	BOARD
BITUM	BITUMINOUS
BLDG	BUILDING
BLK, BLKG	BLOCK, BLOCKING
BM	BENCHMARK
BMD	BOTTOM OF METAL DECK
BO	BOTTOM OF, BY OTHERS
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BRG	BEARING
BSMT	BASEMENT
BTWN	BETWEEN
BUR	BUILT UP ROOFING SYSTEM

[	CHANNEL
CAB	CABINET
CB	CATCH BASIN
CCR	CARD CONTROL READER
CCT	CUBICLE CURTIAIN TRACK
CCTV	CLOSED CIRCUIT TELEVISION
CEM	CEMENT, CEMENTITIOUS
CER	CERAMIC
CFCI	CONTRACTOR FURNISHED-CONTRACTOR INSTALLED
CG	CORNER GUARD
CH BD	CHALKBOARD
CI	CAST IRON
CJ	CONTROL JOINT
CL ℄	CENTER LINE
CLG	CEILING
CLO	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONN	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CORR	CORRUGATED, CORRIDOR
CPT	CARPET
CRSC	COLD ROLLED STEEL CHANNEL
CSK	COUNTERSUNK
CSP	COMBINATION STANDPIPE
CSWK	CASEWORK
CT	CERAMIC TILE
CU	CUBIC
CW	COLD WATER

D	DEPTH
DBL	DOUBLE
DBL ACT	DOUBLE ACTING
DEG	DEGREE
DEMO	DEMOLISH
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIFF	DIFFUSER
DIM	DIMENSION
DIM PT	DIMENTION POINT
DISP	DISPENSER
DIST	DISTANCE
DK	DECK
DN	DOWN
DR	DRAIN, DOOR
DS	DOWNSPOUT
DSP	DRY STANDPIPE
DT	DRAPERY TRACK
DTL	DETAIL
DW	DISHWASHER
DWG, DWGS	DRAWING, DRAWINGS

E	EAST
EA	EACH
EDR	EQUIMPENT DRAWING
EG	EDGE GUARD
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELAST	ELASTOMERIC
ELEC	ELECTRICAL
ELEV	ELEVATOR
ENCL	ENCLOSURE
EMER	EMERGENCY
ENGR	ENGINEER
EOS	EDGE OF SLAB
EP	ELECTRICAL PANEL
EPB	ELECTRICAL PANEL BOARD
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL
EQLS P	EQUALLY SPACED
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ESCAL	ESCALATOR
EST	ESTIMATE(D)
EWC	ELECTRIC WATER COOLER
EXC	EXCAVATED
EXH	EXHAUST
EXIST, (E)	EXISTING
EXP	EXPANSION JOINT
EXT	EXTERIOR
EX-BR	EXISTING BRICK

F	FACE TO FACE
FA	FIRE ALARM
FAS	FIRE ALARM STATION
FB	FLAT BAR
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FEC	FIRE EXTINGUISHER CABINET
FE	FIRE EXTINGUISHER
FF	FINISH FACE
FG	FINISH GRADE
FHC	FIRE HOSE CABINET
FHFEC	FIRE HOSE / FIRE EXTINGUISHER CABINET
FHMS	FLAT HEAD MACHINE SCREW
FHWS	FLAT HEAD WOOD SCREW
FHY	FIRE HYDRANT
FIN	FINISH, FINISHED
FLAM	FLAMMABLE
FLASH	FLASHING
FLEX	FLEXIBLE
FLR	FLOOR
FLUOR	FLUORESCENT
FO	FACE OF
FRT	FIRE RETARDANT TREATMENT
FRZ	FREEZER
FSB	FOLDING SHOWER BENCH
FSTNR	FASTENER
FT	FOOT, FEET
FTG	FOOTING
FURN	FURNITURE
FXTR	FIXTURE

G	GAS
GA	GAUGE, GAGE
GAL	GALLON
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFRC	GLASS FIBER REINFORCED CONCRETE
GFRG	GLASS FIBER REINFORCED GYPSUM
GL	GLASS
GLU LAM	GLUE LAMINATED
GLZ	GLAZING
GR	GRADE, GRADING
GVL	GRAVEL
GYP	GYPSUM
GYP BD	GYPSUM BOARD
GYP PLAS	GYPSUM PLASTER

H	HIGH
HB	HOSE BIB
HC	HOLLOW CORE
HD	HEAD
HDBD	HARDBOARD
HDW	HARDWARE
HDWD	HARDWOOD
HGT, HT	HEIGHT
HM	HOLLOW METAL
HNDRL	HANDRAIL
HORIZ	HORIZONTAL
HPT	HIGH POINT
HR	HOUR
HSKP	HOUSEKEEPING
HVAC	HEATING-VENTILATION-AIR CONDITIONING
HW	HOT WATER

I	
ID	INSIDE DIAMETER
IN	INCH
INCAND	INCANDESCENT
INCL	INCLUDE, INCLUDING
INFO	INFORMATION
INSUL	INSULATION
INTR	INTERIOR
INV	INVERT
IVT	INTRAVENOUS TRACK

J	
JAN	JANITOR
JST	JOIST
JT	JOINT

K	
KG	KILOGRAM
KIT	KITCHEN
KPL	KICK PLATE
KS	KNEE SPACE

L	LENGTH, LONG
LAB	LABORATORY
LAM	LAMINATE, LAMINATION
LAV	LAVATORY
LB	POUND
LED	LIGHT EMITTING DIODE
LF	LINEAR FOOT
LG	LENGTH
LIN	LINEAR
LL	LEAD LINED
LPT	LOW POINT
LT	LIGHT
LT WT	LIGHT WEIGHT
LTG	LIGHTING
LVR	LOUVER

M	METERS
MACH	MACHINE
MATL	MATERIAL
MATV	MASTER ANTENNA TELEVISION SYSTEM
MAX	MAXIMUM
MB	MACHINE BOLT
MC	MEDICINE CABINET
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANICAL
MED	MEDIUM
MET, MTL	METAL
MEMB	MEMBRANE
MFR, MFGR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLDG	MOLDING
MM	MILLIMETERS
MO	MASONRY OPENING
MOD	MODULE, MODULAR
MTD	MOUNTED
MTG	MOUNTING
MULL	MULLION
MVBL	MOVEABLE
MW	MICROWAVE

N	
(N)	NEW
N	NORTH
NA, N/A	NOT APPLICABLE
NAT	NATURAL
NE	NORTHEAST
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
NW	NORTHWEST

O	
OC	ON CENTER
OA	OVERALL
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISH-CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED-OWNER INSTALLED
OPNG	OPENING
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
OVHD	OVERHEAD
OZ	OUNCE

P	
PA	PUBLIC ADDRESS
PART	PARTIAL
PBD	PARTICLEBOARD
PBX	PRIVATE TELEPHONE EXCHANGE
PCF	POUNDS PER CUBIC FOOT
PCI	POUNDS PER CUBIC INCH
PERF	PERFORATED
PERIM	PERIMETER
PERM	PERMANENT
PERP	PERPENDICULAR
PI	POINT OF INTERSECTION
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER, PLASTIC
PLBG	PLUMBING
PLF	POUNDS PER LINEAR FOOT
PLYWD	PLYWOOD
PNEU	PNEUMATIC
PNL	PANEL
PNL BD	PANEL BOARD
PNT, P	PAINT
PORT	PORTABLE
PP	PUSH PLATE
PPM	PARTS PER MILLION
PR	PAIR
PRCST	PRECAST
PREP	PREPARATION
PREFAB	PREFABRICATION
PRKG	PARKING
PROJ	PROJECT
PROP	PROPERTY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT
PT, PTD	PAINT, PAINTED
PTN	PARTITION
PTS	PNEUMATIC TUBE STATION
PVC	POLYVINYL CHLORIDE
PVG	PAVING
PVMT	PAVEMENT
PWR	POWER

Q	
QT	QUARRY TILE
QTR	QUARTER
QTY	QUANTITY

R	RISER
RA	RETURN AIR
RAD	RADIUS
RB	RESILIENT BASE
RCP	REFLECTED CEILING PLAN
RCPT	RECEPTACLE
RD	ROOF DRAIN
RECT	RECTANGULAR
REF	REFERENCE
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCE(D)(ING)(MENT)
REQD	REQUIRED
REQT	REQUIREMENT
RESIL	RESILIENT
RET	RETURN
REV	REVISION
RF	RESILIENT FLOORING
RH	RIGHT HAND
RHMS	ROUND HEAD MACHINE SCREW
RHWS	ROUND HEAD WOOD SCREW
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RWL	RAIN WATER LEADER

S	SOUTH
SA	SUPPLY AIR
SB	SPLASHBLOCK
SC	SOLID CORE
SCHED	SCHEDULE
SCRN	SCREEN
SD	STORM DRAIN
SECT	SECTION
SEG	SEGMENT
SEP	SEPARATION, SEPARATE
SEP JT	SEPARATION JOINT
SHT	SHEET, SHEETING
SHWR	SHOWER
SHV	SHELVES, SHELVING
SIM	SIMILAR
SK	SINK
SMS	SHEET METAL SCREW
SP	SPACE, SPACED, SPACING
SPEC	SPECIFICATION
SPKLR	SPRINKLER
SPKR	SPEAKER
SQ	SQUARE
SS	SANITARY SEWER
SSK	SERVICE SINK
SST	STAINLESS STEEL
ST	STREET
STA	STATION
STAG	STAGGERED
STC	SOUND TRANSMISSION COEFFICIENT
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
STS	SELF-TAPPING STEEL
SUSP	SUSPENDED
SUSP CLG	SUSPENDED CEILING
SVCE	SERVICE
SYMM	SYMMETRICAL
SYST	SYSTEM

T	TREAD
T&B	TOP AND BOTTOM
T&G	TOUNGE AND GROOVE
TC	TOP OF CONCRETE, TOP OF CURB
TD	TRENCH DRAIN
TEL	TELEPHONE
TEMP	TEMPORARY
THERM	THERMAL
THK	THICK, THICKNESS
THRES	THRESHOLD
THRU	THROUGH
TMPD GL	TEMPERED GLASS
TO	TOP OF
TOR	TOP OF RAILING
TOS	TOP OF STEEL
TOT	TOTAL
TOW	TOP OF WALL
TP	TOP OF PAVEMENT
TPH	TOILET PAPER HOLDER
TRANS	TRANSPARENT
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TYP	TYPICAL
TW	TOP OF WALL

U	
UC	UNDER COUNTER
UL	UNDERWRITERS LABORATORY
UNF	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTABLE POWER SUPPLY
UR	URINAL
UTIL	UTILITY

V	
VAC	VACUUM
VB	VALVE BOX
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIT	VITREOUS
VP	VENT PIPE
VOL	VOLUME
VWC	VINYL WALL COVERING

W	WEST
WI	WITH
W/W	WALL TO WALL
WAINS	WAINSCOT
WC	WATER CLOSET, WALL COVERING
WD	WOOD
WDW	WINDOW
WGL	WIRE GLASS
WCHR	WHEELCHAIR
WM	WIRE MESH
WO	WHERE OCCURS
W/O	WITHOUT
WP	WATERPROOF
WPT	WORKING POINT
WR	WATER RESISTANT
WSCT	WAINSCOT
WSP	WET STANDPIPE
WT	WEIGHT
WTHPRF	WEATHERPROOF
WTRPRF	WATERPROOF
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH

X	
XFMR	TRANSFORMER

Y	
YD	YARD
YR	YEAR

ARCHITECTURAL DIMENSIONING CONVENTIONS

1. EXCEPT WHERE DIRECTED TO PLACE ITEMS OF THE WORK AT THE "APPROXIMATE LOCATION SHOWN," DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION.

2. ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAWN TO EXACT SCALE. ALL DIMENSIONS REQUIRED ARE SHOWN (OR MAY BE DERIVED FROM THOSE SHOWN OR NOTED) ON THE FLOOR PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, SCHEDULES, CONFIGURATION DETAILS, AND SPECIFICATIONS. SEE THE NOTES BELOW FOR DIMENSIONING CONVENTIONS USED ON THIS PROJECT.

3. EXCEPT WHERE SPECIFICALLY NOTED TO THE CONTRARY, ALL DIMENSIONS SHOWN ON THE ARCHITECTURAL DRAWINGS CONFORM TO THE FOLLOWING CONVENTIONS:

   A. DIMENSIONS UTILIZING THE "CENTERLINE" SYMBOL ARE MEASURED TO:
   - STRUCTURAL OR DIMENSIONAL GRID LINES
   - CENTERLINE OF CONCRETE OR CONC MASONRY UNIT WALLS (EXCLUSIVE OF FURRING OR APPLIED FINISHES HAVING THICKNESS) REFER TO THE ARCH PLANS AND SECTIONS, THE STRUCT DRAWINGS, OR PARTITION SCHEDULE TO DETERMINE THE THICKNESS OF CONCRETE OR CONC MASONRY UNIT WALLS.
   - CENTERLINE OF PARTITIONS ASSEMBLY (EXCLUSIVE OF ANY APPLIED FINISHES HAVING THICKNESS WHICH MAY BE ADDED TO SUCH WALLS) AT PARTITIONS FRAMED WITH METAL STUDS. REFER TO "PARTITION SCHEDULE" TO DETERMINE THICKNESS OF EACH PARTITION TYPE.
   - CENTERLINE OF DOOR, WINDOW, OR LOUVER OPENING.
   - CENTERLINE OF EQUIPMENT OR FURNISHING.
   - CENTERLINE OF OTHER FEATURES AS INDICATED.

   B. REFER TO ABBREVIATIONS LEGEND FOR SYMBOL USED TO INDICATE CENTERLINE DIMENSION.

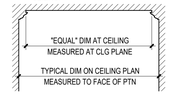
   C. DIMENSIONS UTILIZING THE "FACE OF" SYMBOL ARE MEASURED TO:
   - FACE OF CONCRETE OR CONC MASONRY UNIT WALL (EXCLUSIVE OF APPLIED FINISHES HAVING THICKNESS OR FURRING WHICH MAY BE ADDED TO THE FACE OF SUCH WALLS).
   - FACE OF PARTITION ASSEMBLY (EXCLUSIVE OF ANY APPLIED FINISHES HAVING THICKNESS WHICH MAY BE ADDED TO SUCH WALL) AS DEFINED BY THE PARTITION SCHEDULE. UNLESS NOTED AS A "FACE OF FINISH" OR "CLEAR" DIMENSION (SEE NOTE 'E' BELOW), DIMENSIONS ARE NOT MEASURED TO THE FACE OF APPLIED FINISH. REFER TO THE "PARTITION SCHEDULE" TO DETERMINE THE THICKNESS OF EACH PARTITION TYPE.
   - INSIDE EDGE OF FINISHED DOOR OPENING. REFER TO THE DOOR SCHEDULE FOR ADDITIONAL DIMENSIONAL INFORMATION.

   D. REFER TO ABBREVIATIONS LEGEND FOR SYMBOL USED TO INDICATE "FACE OF" DIMENSION.

   E. WHERE "FACE OF FINISH" OR "CLEAR" DIMENSIONS ARE SPECIFICALLY NOTED, THE DIM IS MEASURED TO:
   - FINISH FACES AT THE MOST NARROW OR CONSTRICTED POINTS OF SECTION WHERE DIMENSION IS SHOWN. WHEN THE DIMENSION OCCURS ACROSS AN OPEN SPACE. THIS CASE, A "FACE OF FINISH" DIMENSION IS EQUIVALENT TO A "CLEAR" DIMENSION.
   - FINISH FACES AT THE WIDEST OR MOST EXPANSIVE POINTS OF THE SECTION THE DIMENSION IS SHOWN WHEN THE DIMENSION OCCURS ACROSS AN OBJECT OR GROUP OF OBJECTS.

   F. WHERE "EQUAL" DIMENSIONS ARE USED ON REFLECTED CEILING PLANS TO LOCATE CEILING GRID WORK POINTS, MEASURE DIMENSIONS TO:
   - EDGE OF THE INDICATED CEILING AT THE FACE OF THE ADJACENT APPLIED FINISH MEASURED AT THE PLANE OF THE CEILING.

NOTE NO 3 CONTINUED:
- CAUTION: DUE TO THE POSSIBLE APPLICATION OF APPLIED FINISHES - THICKNESS OF WHICH MAY VARY BETWEEN FLOOR AND CEILING AND IS NOT ACCOUNTED FOR (EXCEPT AS INDICATED BY "FOF" OR "CLEAR") BY THE DIMENSION SHOWN ON THE FLOOR PLANS - THE CONTRACTOR MUST ADJUST, AS NECESSARY, THE FLOOR PLAN DIMENSIONS TO REFLECT THE ACTUAL DIMENSIONS FOUND AT PLANE OF THE CEILING.

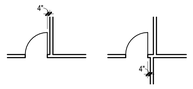


4. WHERE DIMENSIONS ARE NOT PROVIDED ON FLOOR PLANS TO LOCATE DOOR OPENINGS, APPLY THE FOLLOWING RULES, **IN ORDER**, TO DETERMINE THE LOCATION OF DOOR OPENINGS:

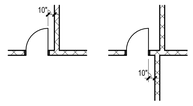
   A. DOOR OPENINGS MAY BE DIMENSIONED ON DRAWINGS OTHER THAN THE FLOOR PLANS. REFER TO THE SECTIONS, ELEVATIONS, DETAILS, AND DOOR SCHEDULE NOTES FOR ADDITIONAL DIMENSIONAL INFORMATION.

   B. WHERE THE HINGE-SIDE OF A DOOR IS SHOWN ADJACENT TO A WALL - OR WALLS - PERPENDICULAR TO THE WALL IN WHICH THE DOOR OPENING OCCURS:

   - AT DOORS OCCURRING IN METAL FRAMED GYPSUM BOARD PARTITIONS, LOCATE THE HINGE-SIDE OF THE DOOR FINISHED OPENING 4 INCHES FROM THE FACE (EXCLUSIVE OF APPLIED FINISHES) OF THE CLOSEST PERPENDICULAR WALL OR PARTITION ASSEMBLY.

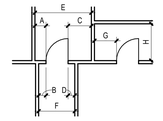


   - AT DOORS OCCURRING IN WALLS OF CONC MASONRY UNIT CONSTRUCTION, LOCATE THE HINGE-SIDE OF THE DOOR FINISHED OPENING 10 INCHES FROM THE FACE (EXCLUSIVE OF APPLIED FINISHES) OF THE CLOSEST PERPENDICULAR WALL OR PARTITION ASSEMBLY.



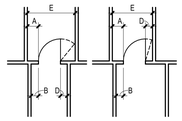
NOTE NO 4 CONTINUED:

   C. WHERE DOOR OCCURS NOT ADJACENT TO A PERPENDICULAR WALL AND EITHER "DIM E" OR "DIM F" IN DIAGRAM BELOW IS 16'-0" OR LESS, LOCATE DOOR UTILIZING THE FOLLOWING MINIMUM DIMENSIONS:
   - DIMENSION A = 18 INCHES MIN
   - DIMENSION B = 12 INCHES MIN
   - DIMENSION C = DOOR WIDTH + 2 INCHES MINIMUM
   - DIMENSION D = 4 INCHES MIN AT METAL FRAMED GYP BD PARTITIONS OR - EVEN MULTIPLE OF 1/2 CMU MODULE PLUS 2 INCHES AT CONC MASONRY UNIT WALLS
   - DIMENSIONS E AND F = AS SHOWN ON PLANS
   - DIMENSION G = 36 INCHES MIN
   - DIMENSION H = 60 INCHES MIN

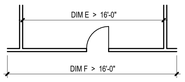


   - IF SPACE ALLOWS, CENTER DOOR IN WALL SHOWN ON THE DRAWINGS SO THAT EITHER "DIM A" EQUALS "DIM C" OR "DIM B" EQUALS "DIM D".

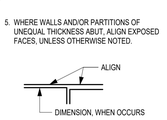
   D. IF "DIM E" IN DIAGRAMS BELOW IS LESS THAN THE SUM OF 2 TIMES THE DOOR WIDTH PLUS 20 INCHES, LOCATE DOOR SO THAT MINIMUMS STATED BY NOTE NO 4C ABOVE FOR "DIM A", "DIM B", AND "DIM D" ARE MET - MAXIMIZING "DIM A" AND MINIMIZING "DIM D" TO THE EXTENT POSSIBLE



   E. WHERE DOOR IS SHOWN LOCATED IN A LARGE EXPANSE OF OPEN WALL ("DIM E" AND "DIM F" IN DIAGRAM BELOW BOTH EXCEED 16'-0"), PLACE DOOR AT APPROXIMATE LOCATION SHOWN ON THE PLANS. WHERE DOOR OCCURS IN CMU WALL, PLACE DOOR AT APPROXIMATE LOCATION SHOWN WHILE MINIMIZING "CUT" OR PARTIAL CMU MODULES ADJACENT TO THE JAMBS.

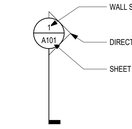


5. WHERE WALLS AND/OR PARTITIONS OF UNEQUAL THICKNESS ABUT, ALIGN EXPOSED FACES, UNLESS OTHERWISE NOTED.

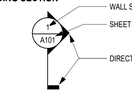


TYPICAL ARCHITECTURAL REFERENCE SYMBOLS

WALL SECTION



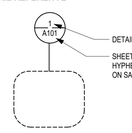
BUILDING SECTION



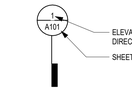
EXTERIOR ELEVATION



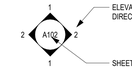
DETAIL REFERENCE



SECTION DETAIL REFERENCE



INTERIOR ELEVATION REFERENCE



PARTITION TYPE IDENTIFICATION MARK



EQUIPMENT/ACCESSORY IDENTIFICATION MARK



DOOR IDENTIFICATION MARK



WINDOW AND LOUVER TYPE MARK



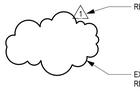
LEVEL LINE



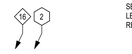
ROOM NAME AND NUMBER



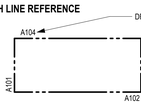
REVISION EXTENT



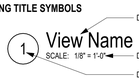
KEYED NOTE MARK



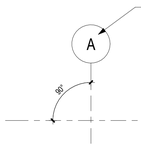
MATCH LINE REFERENCE



DRAWING TITLE SYMBOLS



LAYOUT GRID LINES



NORTH ARROW REFERENCE



TYPICAL RULES FOR DETERMINING REFLECTED CEILING PLAN LOCATIONS, DIMENSIONS, AND CONFIGURATIONS

GENERAL NOTES

A. THE A-SERIES DRAWINGS ESTABLISH AND COORDINATE THE FINISHED APPEARANCE AND LOCATION OF ALL EXPOSED ELEMENTS. THE A-SERIES DRAWINGS TAKE PRECEDENCE FOR THE FINISHED APPEARANCE AND LOCATION OF ALL PARTS OF THE **EXCEPTION:** DIMENSIONED LOCATIONS SHOWN ON DRAWINGS OF OTHER DISCIPLINES SHALL GOVERN ONLY WHERE:
   1. SPECIFICALLY AND INDIVIDUALLY INDICATED BY SYMBOL, KEYED NOTE, OR NOTATION ON THE ARCHITECTURAL DRAWINGS.
   2. OCCURRING WITHIN A ROOM OR OTHER IDENTIFIABLE SPACE FOR WHICH ARCH SHEET OR SCHEDULE NOTES INDICATE THAT DIMENSIONS PROVIDED ELSEWHERE SHALL GOVERN.

B. THE PURPOSE OF THIS SHEET IS TO ILLUSTRATE THE TYPICAL RULES WHICH GOVERN THE LOCATION, CONFIGURATION IN RELATIONSHIP TO OTHER ELEMENTS OF THE WORK, AND FINISHED ALIGNMENT OF ALL ITEMS OCCURRING ON REFLECTED CEILING PLANS OF THE PROJECT.

C. THE A-SERIES FLOOR PLANS, REFLECTED CEILING PLANS, SECTIONS, ELEVATIONS, AND DETAILS ILLUSTRATE THE DIMENSIONED LOCATION OF MANY - BUT NOT ALL - EXPOSED PARTS OF THE WORK. APPLY THE RULES ON THIS SHEET - **IN ORDER** - TO DETERMINE THE LOCATION OF EXPOSED PART OF THE WORK.
   1. WHEN UNIQUELY AND SPECIFICALLY DIMENSIONED ON THE A-SERIES PLANS, SECTIONS, OR ELEVATIONS (OR COMBINATION THEREOF), LOCATE AS DIMENSIONED.
   2. IF NOT SHOWN, OR IF SHOWN BUT NOT DIMENSIONED, BY THE A-SERIES PLANS OR ELEVATIONS, LOCATE AS INDICATED BY THE APPLICABLE RULE.

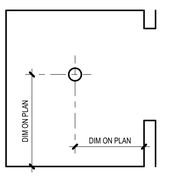
D. REFER TO THE "ARCHITECTURAL GENERAL NOTES" FOR ADDITIONAL NOTES WHICH MAY BE APPLICABLE TO THE WORK SHOWN ON THIS SHEET.

E. FOR MANY SPACES, THE ARCHITECTURAL REFLECTED CEILING PLANS ESTABLISH AN IDEAL PATTERN FOR LOCATING SPRINKLER HEADS. IN SPACES WHERE HEADS ARE SHOWN, FOLLOW PATTERN ESTABLISHED BY THE DRAWINGS. WHERE ADDL HEADS ARE REQUIRED TO CONFORM WITH CODE, PROVIDE HEADS IN GENERAL CONFORMITY WITH PATTERN ESTABLISHED BY THE DRAWINGS.

F. IN SPACES WHERE SPRINKLER HEADS ARE NOT SHOWN BY THE ARCHITECTURAL REFLECTED CEILING PLANS, PROVIDE HEADS AS REQUIRED BY CODE.

RULE 1

WHEN COMPLETELY DIMENSIONED ON REFLECTED CEILING PLAN

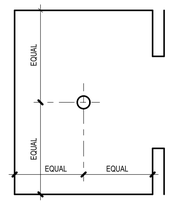


LOCATE ITEMS AS INDICATED WHEN SHOWN DIMENSIONED BY A REFLECTED CEILING PLAN, ENLARGED REFLECTED CEILING PLAN, OR DETAIL.

SPECIFIC DIMENSIONS SHOWN BY REFLECTED CEILING PLANS, ELEVATIONS, OR DETAILS TAKE PRECEDENCE OVER TYPICAL LOCATION RULES.

RULE 2

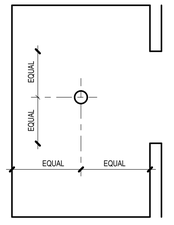
WHEN NOT DIMENSIONED BUT SHOWN CENTERED



LOCATE ITEMS CENTERED IN SPACE (OR CEILING PLANE) WHEN SHOWN (BUT NOT DIMENSIONED) VISUALLY AT APPROXIMATE CENTER OF SPACE.

RULE 3

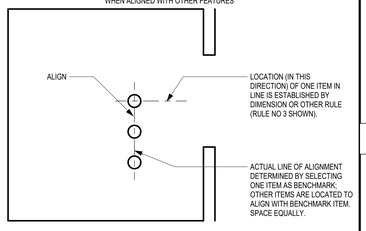
WHEN OFF-CENTER IN SPACE BUT CENTERED ON ADJACENT FEATURE



LOCATE ITEMS CENTERED ON ADJACENT OPENING OR FEATURE WHEN SHOWN (BUT NOT DIMENSIONED) OFF-CENTER IN OVERALL SPACE BUT CENTERED AGAINST ADJACENT FEATURE.

RULE 4

WHEN ALIGNED WITH OTHER FEATURES

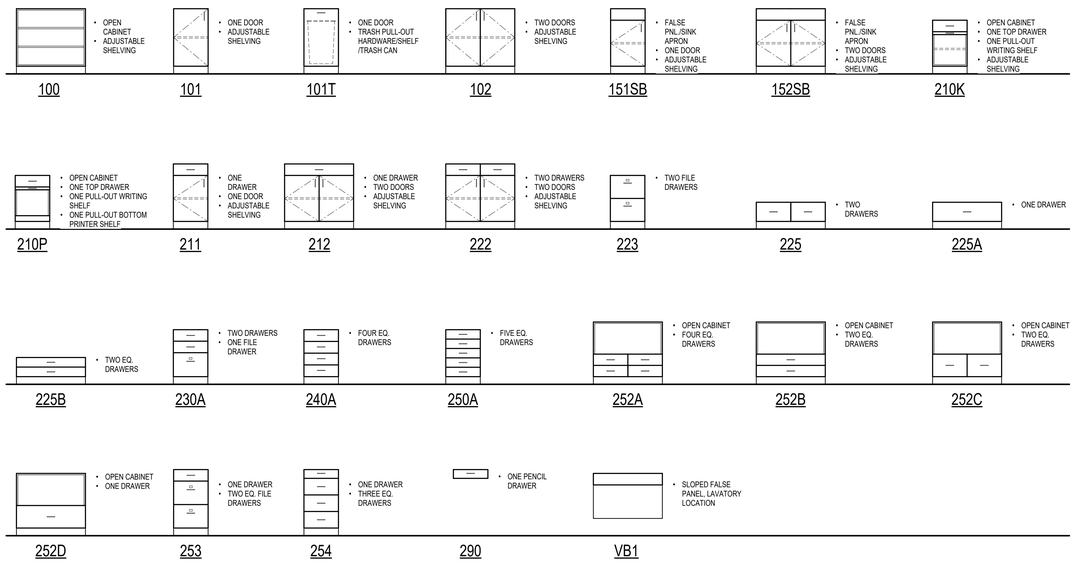

ALIGN
LOCATION (IN THIS DIRECTION) OF ONE ITEM IN LINE IS ESTABLISHED BY DIMENSION OR OTHER RULE (RULE NO 3 SHOWN).
ACTUAL LINE OF ALIGNMENT DETERMINED BY SELECTING ONE ITEM AS BENCHMARK; OTHER ITEMS ARE LOCATED TO ALIGN WITH BENCHMARK ITEM. S

TYPICAL CABINETRY TYPES ELEVATIONS

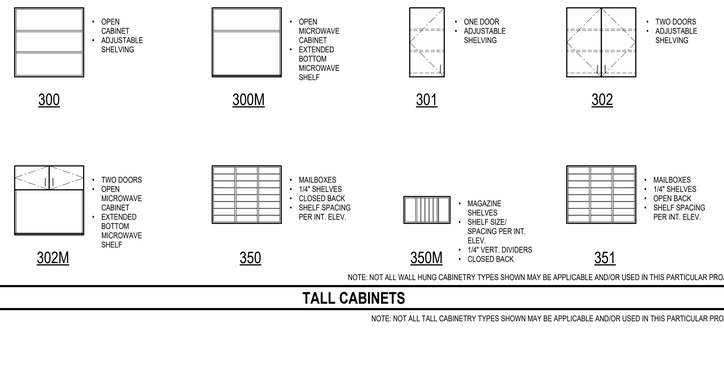
CABINETRY TYPES ELEVATIONS_30X42_8WX2H

BASE CABINETS

NOTE: NOT ALL BASE CABINETRY TYPES SHOWN MAY BE APPLICABLE AND/OR USED IN THIS PARTICULAR PROJECT.



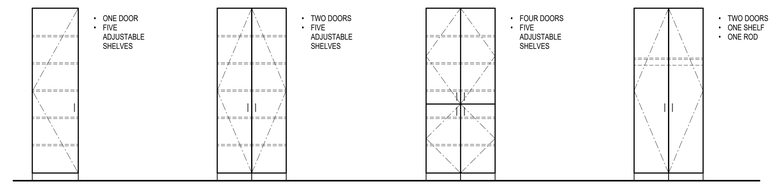
WALL HUNG CABINETS



NOTE: NOT ALL WALL HUNG CABINETRY TYPES SHOWN MAY BE APPLICABLE AND/OR USED IN THIS PARTICULAR PROJECT.

TALL CABINETS

NOTE: NOT ALL TALL CABINETRY TYPES SHOWN MAY BE APPLICABLE AND/OR USED IN THIS PARTICULAR PROJECT.

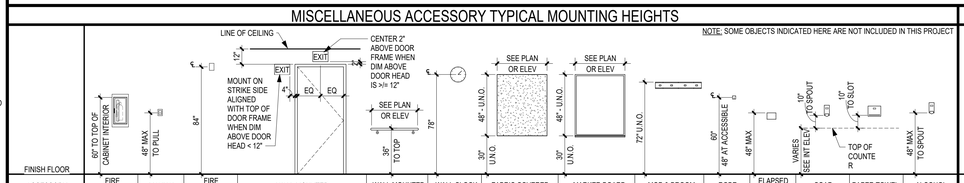


CASEWORK GENERAL NOTES

1. CONTRACTOR TO SUBMIT CASEWORK SHOP DRAWINGS TO DESIGNER FOR APPROVAL PRIOR TO FABRICATION AND ORDERING OF MATERIALS.
2. ALL CASEWORK TO BE CONSTRUCTED PER MOST CURRENT EDITION OF THE NORTH AMERICAN ARCHITECTURAL WOODWORK STANDARDS PREMIUM GRADE, UNLESS NOTED OTHERWISE.
3. ALL COUNTERTOPS TO HAVE A 4" H. BACKSPLASH AND ENDSPLASHES UNLESS INDICATED OTHERWISE (REFERENCE INTERIOR ELEVATIONS). BACK AND ENDSPLASHES TO BE FULLY BEDDED IN (NON-YELLOWING) CLEAR SILICONE SEALANT TO FULLY SEAL ALL PERIMETER JOINTS. CAULK THE BACK AND ENDSPLASHES WITH CLEAR SEALANT ALONG THE ENTIRE TOP EDGE WHERE SPLASHES ADJOIN WALLS.
4. ALL LAMINATE AND VENEER SHALL BE APPLIED TO SUBSTRATE OF NOT LESS THAN 3/4" THICKNESS.
5. ALL EXPOSED EXTERIOR SURFACES OF CASEWORK TO BE PLASTIC LAMINATE UNLESS NOTED OTHERWISE.
6. AT ALL WET LOCATIONS, WHERE PLASTIC LAMINATE IS SPECIFIED, BOTH COUNTERTOP AND BACKSPLASH ARE TO BE MADE OF MOISTURE RESISTANT PARTICLE BOARD.
7. INTERIOR OF ALL CASEWORK TO BE WHITE MELAMINE UNLESS NOTED OTHERWISE. EXCEPTION: CASEWORK WITH OPEN FRONTS OR GLASS DOORS TO HAVE PLASTIC LAMINATE INTERIOR.
8. CONTRACTOR TO PROVIDE, COORDINATE AND INSTALL ALL REQUIRED BLOCKING FOR CASEWORK.
9. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS FOR CASEWORK PRIOR TO FABRICATION.
10. CONTRACTOR TO VERIFY ALL SEALANT COLORS WITH ARCHITECT PRIOR TO ORDERING AND INSTALLATION.
11. CONTRACTOR SHALL DRILL 2 3/8" DIA. HOLES FOR HAFELE 429.93.XXX GROMMETS THRU COUNTERTOPS AT LOCATIONS AS DIRECTED BY THE OWNER/TENANT. PROVIDE GROMMET COVERS TO MATCH COUNTERTOP GREY COLOR. PROVIDE COLOR SAMPLES OF COUNTERTOP FINISH AND COLORED GROMMET TO ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO ORDERING.
12. CABINET DOOR PULLS TO BE 4" HIGH WIRE PULLS, FINISH TO BE BRUSHED CHROME OR APPROVED EQUAL, UNLESS NOTED OTHERWISE.
13. ALL OUTSIDE CORNERS OF COUNTERTOPS ON PLANS NOT AGAINST AN ADJACENT WALL SHALL HAVE 1-1/2" RADIUS, UNLESS NOTED OTHERWISE.
14. ALL LAMINATE DOORS TO BE FINISHED ON ALL SIDES.
15. ALL COUNTERTOP METAL ANGLE SUPPORT BRACKETS TO BE A&M HARDWARE 18"X24" W/ BLACK POWDER COATED FINISH (OR APPROVED EQUAL) UNLESS NOTED OTHERWISE.
16. ALL UNDER CABINET LIGHTING SHALL BE CONCEALED FROM FRONT AND FINISHED ENDS. FACE OF FRONT LIGHTRAIL SHALL ALIGN FLUSH WITH FRONT FACE OF CABINET BODY. BOTTOM EDGE OF CABINET FINISHED END PANELS SHALL ALIGN WITH BOTTOM EDGE OF LIGHT RAIL. SEE TYPICAL WALL CABINET DETAIL AS NOTED. NO OFFSET LIGHTRAILS ON FRONT OR ENDS OF CABINETS SHALL BE PERMITTED.
17. ALL OUTSIDE CORNERS OF CABINETS, APRONS, LIGHT RAILS, SINK ENCLOSURE PANELS, ETC. SHALL BE ALIGNED TO FORM A 90 DEGREE ANGLE UNLESS NOTED OTHERWISE. NO OFFSET OR STAGGERED CORNERS SHALL BE PERMITTED.
18. THE MAXIMUM PERMITTED GAP BETWEEN ADJACENT DOOR & DRAWER FRONTS FOR FLUSH OVERLAY CABINETS SHALL NOT EXCEED 1/8" ALL FILE DRAWERS SHALL BE SUPPLIED WITH BUILT-IN ADJUSTABLE HANGING FILE FRAME SYSTEM. INCLUDE (1) REMOVABLE INTERMEDIATE RAIL PER DRAWER FOR CONVERTING FROM LETTER TO LATERAL FILES.
19. ALL FINISHED SIDES OF BASE CABINETS SHALL HAVE VINYL BASE APPLIED TO THEM UNLESS NOTED OTHERWISE.
20. FRONT FACE OF ALL PLASTIC LAMINATE PENCIL DRAWER FRONTS SHALL ALIGN WITH FRONT FACE OF ANY ADJACENT PLASTIC LAMINATE APRON.
21. ALL PLASTIC LAMINATE DOOR AND DRAWERS TO RECEIVE 1MM PVC EDGEBAND AND ALL COUNTERTOPS TO RECEIVE T-MOLD EDGEBAND. REFER TO FINISH SCHEDULE FOR EDGEBAND COLORS.
22. PAINT ALL EXPOSED CLEATS BELOW COUNTERS TO MATCH WALL.
23. WHERE CABINET DOORS SWING AGAINST WALLS, PROVIDE AND INSTALL HINGE RESTRICTOR CLIPS TO PREVENT CABINET DOOR HANDLE FROM HITTING WALL WHEN DOOR IS OPENED.

MISCELLANEOUS ACCESSORY TYPICAL MOUNTING HEIGHTS

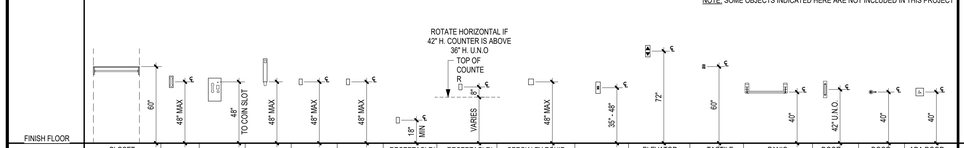
NOTE: SOME OBJECTS INDICATED HERE ARE NOT INCLUDED IN THIS PROJECT



ACCESSORY TYPE	FIRE EXTINGUISHER CABINET	MANUAL FIRE PULL	FIRE STROBE/LIGHT/ AUDIBLE ALARM	WALL MOUNTED EXIT SIGN	WALL MOUNTED HANDRAIL	WALL CLOCK	FABRIC COVERED TACK BOARD	MARKER BOARD	MOP & BROOM HOLDER	ROBE HOOK	ELAPSED TIME CLOCK	SOAP DISPENSER	PAPER TOWEL DISPENSER	ALCOHOL DISPENSER
COMMENTS	SEMI RECESSED	SURFACE MOUNTED	SURFACE MOUNTED	WALL MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED

MISCELLANEOUS ACCESSORY TYPICAL MOUNTING HEIGHTS

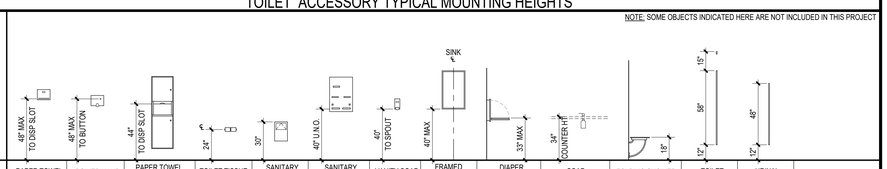
NOTE: SOME OBJECTS INDICATED HERE ARE NOT INCLUDED IN THIS PROJECT



ACCESSORY TYPE	CLOSET HANGAR ROD & SHELF	WALL PHONE	TELEPHONE HOUSING	CUP DISPENSER	WALL SWITCH	TELEPHONE OUTLET	RECEPTACLE/ TELEPHONE/ DATA	RECEPTACLE/ TELEPHONE/ DATA	SPECIALTY EQUIP (IE. THERMOSTAT,CARD READER,INTERCOM)	ELEVATOR CALL BUTTON	ELEVATOR VISIBLE SIGNAL INDICATOR	TACTILE CHARACTER INDICATOR	PANIC BAR	DOOR PULL	DOOR LATCH	ADA DOOR OPERATOR
COMMENTS	WALL MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	VARIES

TOILET ACCESSORY TYPICAL MOUNTING HEIGHTS

NOTE: SOME OBJECTS INDICATED HERE ARE NOT INCLUDED IN THIS PROJECT



ACCESSORY TYPE	PAPER TOWEL DISPENSER	POWER HAND DRYER	PAPER TOWEL DISPENSER & TRASH RECEPTACLE	TOILET TISSUE DISPENSER	SANITARY NAPKIN DISPOSAL	SANITARY NAPKIN DISPENSER	VANITY SOAP DISPENSER	FRAMED VANITY MIRROR	DIAPER CHANGING STATION	SOAP DISPENSER	FOLDING SHOWER SEAT	TOILET PARTITION	URINAL SCREEN
COMMENTS	SURFACE MOUNTED	SURFACE MOUNTED	SEMI RECESSED	SURFACE MOUNTED	SURFACE MOUNTED	RECESSED & SURFACE	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	COUNTERTOP MOUNTED	SURFACE MOUNTED	WALL MOUNTED	WALL MOUNTED

PLUMBING FIXTURE TYPICAL MOUNTING HEIGHTS

NOTE: SOME OBJECTS INDICATED HERE ARE NOT INCLUDED IN THIS PROJECT



ACCESSORY TYPE	SHOWER MIXING VALVE	SHOWER HEAD	HAND HELD SHOWER	LAVATORY	LAVATORY	CHILDREN'S DRINKING FOUNTAIN	SINGLE DRINKING FOUNTAIN	DOUBLE DRINKING FOUNTAIN	TOILET	URINAL
COMMENTS	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	COUNTER MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL/FLOOR MOUNTED	WALL MOUNTED

GRAB BAR TYPICAL MOUNTING HEIGHTS & TOILET ACCESSORY PLANS

NOTE: SOME OBJECTS INDICATED HERE ARE NOT INCLUDED IN THIS PROJECT



ACCESSORY TYPE	ADA TOILET GRAB BAR	SHOWER STALL GRAB BAR	ROLL-IN SHOWER STALL GRAB BAR	TYPICAL ACCESSORIES AT ACCESSIBLE TOILET	REQUIRED FRONT APPROACH KNEE CLEARANCE	OBSTRUCTED FORWARD REACH	UNOBSTRUCTED FORWARD/SIDE REACH
COMMENTS	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	NOTE: SANITARY NAPKIN DISPOSAL AT WOMEN'S & UNISEX ONLY	TYPICAL AT ALL VANITIES, DRINKING FOUNTAINS, ETC.	ADA REACH RANGES	

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Proposed:
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ST. PETERS, MO 63376
360 ECOLOGY DRIVE

No.	Date	Revision

TYPICAL MOUNTING HEIGHTS

Project No. 23121

Sheet No. A002

Date 09/16/2025

SCALE: 3" = 1'-0" / SCALE: 1 1/2" = 1'-0" / SCALE: 1" = 1'-0" / SCALE: 3/4" = 1'-0" / SCALE: 3/8" = 1'-0" / SCALE: 1/4" = 1'-0" / SCALE: 1/8" = 1'-0" / SCALE: 3/32" = 1'-0" / SCALE: 1/16" = 1'-0" / SCALE: 1/32" = 1'-0" / SCALE: 1/2" = 1'-0"

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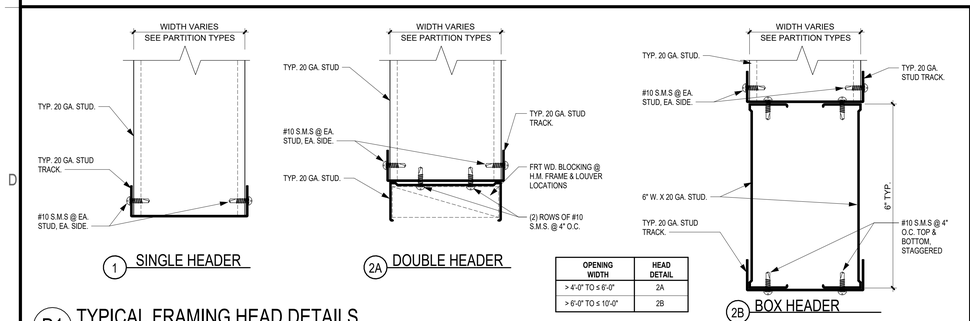
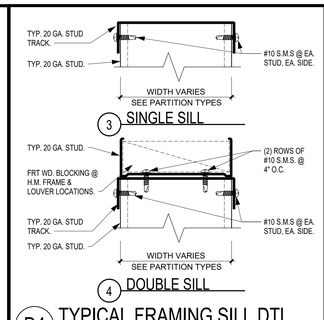


OPENING WIDTH	HEAD DETAIL
> 4'-0" TO ≤ 6'-0"	2A
> 6'-0" TO ≤ 10'-0"	2B

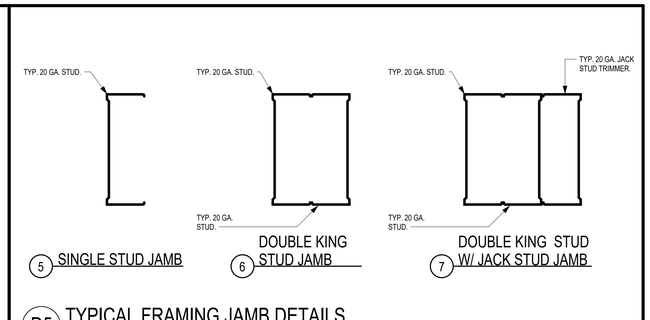
D1 TYPICAL FRAMING HEAD DETAILS
6" = 1'-0"

09.22.16 TYP. HEAD DETAILS



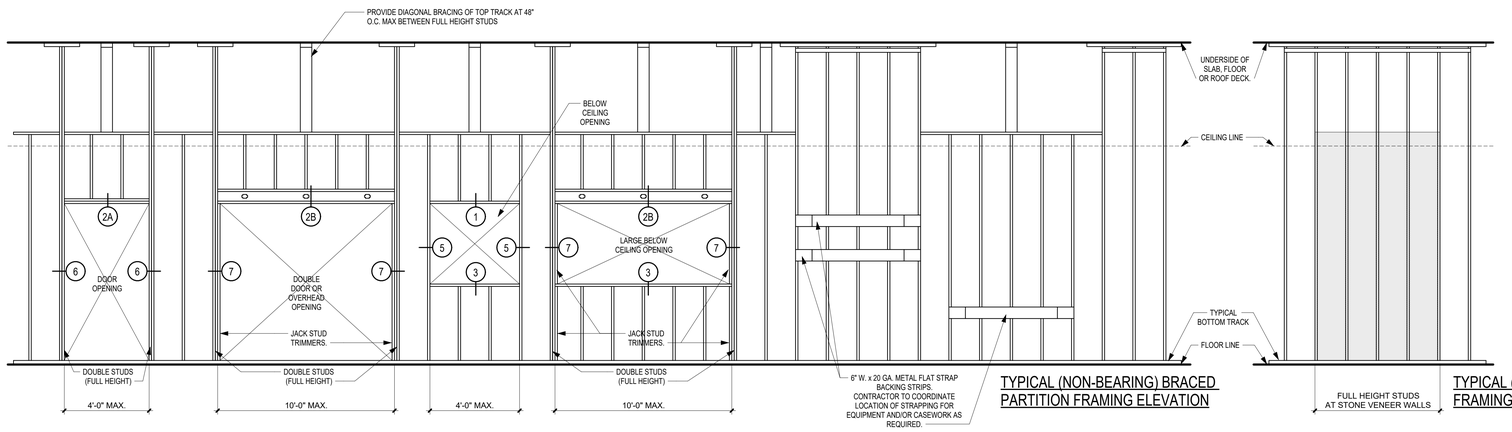
D4 TYPICAL FRAMING SILL DTL
6" = 1'-0"

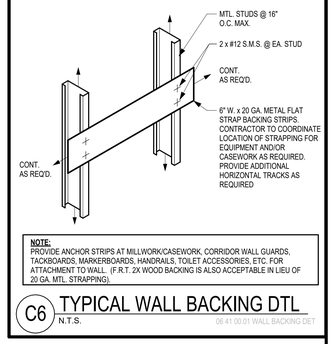
09.22.16 TYP. SILL DETAILS



D5 TYPICAL FRAMING JAMB DETAILS
6" = 1'-0"

09.22.16 TYP. JAMB DETAILS

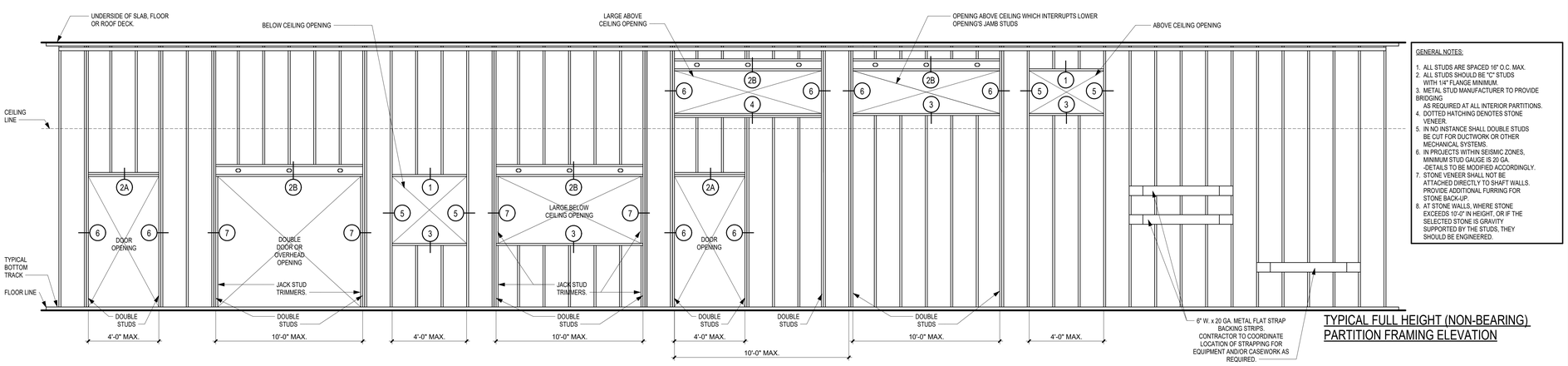




NOTE:
PROVIDE ANCHOR STRIPS AT MILLWORK/CASEWORK, CORRIDOR WALL GUARDS, TACKBOARDS, MARKERBOARDS, HANDRAILS, TOILET ACCESSORIES, ETC. FOR ATTACHMENT TO WALL. (F.R.T. 2X WOOD BACKING IS ALSO ACCEPTABLE IN LIEU OF 20 GA. MTL. STRAPPING).

C6 TYPICAL WALL BACKING DTL
N.T.S.

06 41 00.01 WALL BACKING DET



GENERAL NOTES:

1. ALL STUDS ARE SPACED 16" O.C. MAX.
2. ALL STUDS SHOULD BE "C" STUDS WITH 1/4" FLANGE MINIMUM.
3. METAL STUD MANUFACTURER TO PROVIDE BRIDGING AS REQUIRED AT ALL INTERIOR PARTITIONS.
4. DOTTED HATCHING DENOTES STONE VENEER.
5. IN NO INSTANCE SHALL DOUBLE STUDS BE CUT FOR DUCTWORK OR OTHER MECHANICAL SYSTEMS.
6. IN PROJECTS WITHIN SEISMIC ZONES, MINIMUM STUD GAUGE IS 20 GA. -DETAILS TO BE MODIFIED ACCORDINGLY.
7. STONE VENEER SHALL NOT BE ATTACHED DIRECTLY TO SHAFT WALLS. PROVIDE ADDITIONAL FURRING FOR STONE BACK-UP.
8. AT STONE WALLS, WHERE STONE EXCEEDS 10'-0" IN HEIGHT, OR IF THE SELECTED STONE IS GRAVITY SUPPORTED BY THE STUDS, THEY SHOULD BE ENGINEERED.

A1 TYPICAL INTERIOR PARTITION FRAMING ELEVATIONS
3/8" = 1'-0"

09.22.16 TYP INT PARTITION FRAMING ELEV

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SCALE: 3" = 1'-0" | SCALE: 1 1/2" = 1'-0" | SCALE: 1" = 1'-0" | SCALE: 3/4" = 1'-0" | SCALE: 1/2" = 1'-0" | SCALE: 3/8" = 1'-0" | SCALE: 1/4" = 1'-0" | SCALE: 1/8" = 1'-0" | SCALE: 3/32" = 1'-0" | SCALE: 1/16" = 1'-0"

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360 ECOLOGY DRIVE

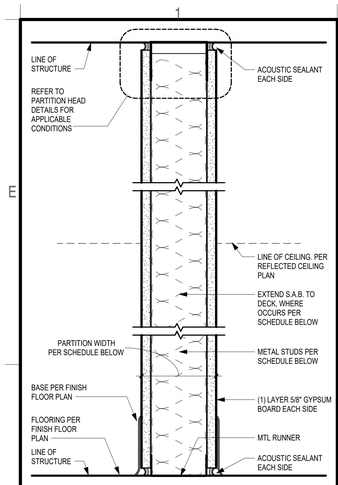
No.	Date	Revision

FRAMING DETAILS

Project No.
23121

Sheet No.
A003

Date
09/16/2025



MARK	STRUCT SIZE	PART THICK	S.A.B SIZE	S.T.C.	REMARKS
C3	3 5/8"	4 7/8"	-	-	A,B
C3A	3 5/8"	4 7/8"	3 1/2"	-	A
C6	6"	7 1/4"	-	-	A,B
C6A	6"	7 1/4"	3 1/2"	-	A

FIRE RATING: N/A

BASIS OF DESIGN: N/A

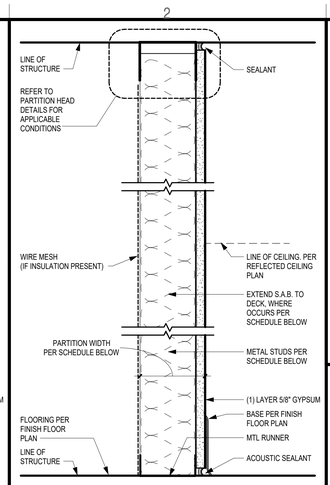
REMARKS:

A. STUD SPACING 16" O.C. MAX
B. OMIT SEALANT

C NON-RATED PARTITION

SCALE: 3" = 1'-0"

09.21.16.01_C.NR PARTITION



MARK	STRUCT SIZE	PART THICK	S.A.B SIZE	S.T.C.	REMARKS
D1	1 5/8"	2 1/4"	-	-	A,B
D3	3 5/8"	4 1/4"	-	-	A,B
D3A	3 5/8"	4 1/4"	3 1/2"	-	A
D6	6"	6 5/8"	-	-	A,B
D6A	6"	6 5/8"	3 1/2"	-	A

FIRE RATING: N/A

BASIS OF DESIGN: N/A

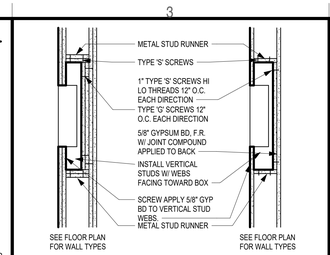
REMARKS:

A. STUD SPACING 16" O.C. MAX.
B. OMIT SEALANT

D NON-RATED PARTITION

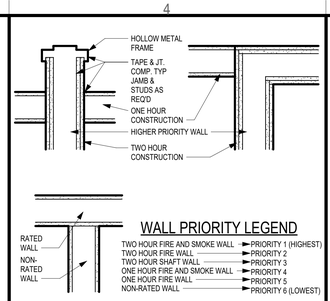
SCALE: 3" = 1'-0"

09.21.16.01_D.NR PARTITION



NOTE:
1. TYPICAL FOR FIRE EXTINGUISHER CABINETS, RECESSED TOILET ACCESSORIES & MECH/ ELECTRICAL RECESSED SERVICE BOXES AT RATED WALLS.
2. TYP AT ALL FIXTURES AND BOXES OVER 100 SQUARE INCHES AT RATED WALLS.

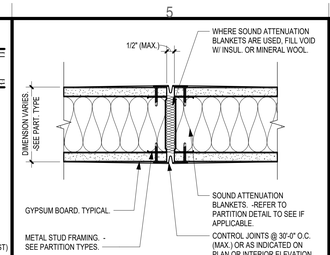
N.T.S. 09.21.16.00B RTD WALL OPNG



WALL PRIORITY LEGEND

TWO HOUR FIRE AND SMOKE WALL → PRIORITY 1 (HIGHEST)
TWO HOUR FIRE WALL → PRIORITY 2
TWO HOUR SHAFT WALL → PRIORITY 3
ONE HOUR FIRE AND SMOKE WALL → PRIORITY 4
ONE HOUR FIRE WALL → PRIORITY 5
NON-RATED WALL → PRIORITY 6 (LOWEST)

N.T.S. 09.21.06.00A WALL PRIORITIES



"CJ-01"

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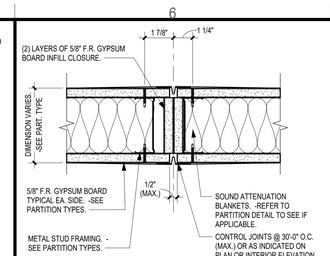


PLAN VIEW

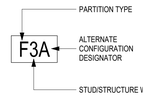
"CJ-02"

09.21.16.00.CJ02

GENERAL PART TYPE NOTES

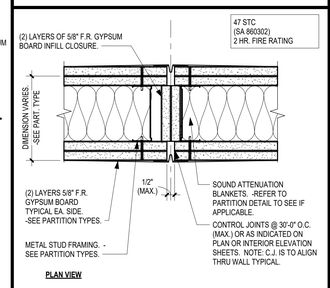
1. INSTALL DEFLECTION TRACK AT TOP OF ALL FULL HEIGHT WALLS.
2. INSTALL MOISTURE RESISTANT GYPSUM BOARD AT ALL WALLS ADJACENT TO WATER.
3. PROVIDE STENCILED OR STICKER RATING IDENTIFICATION OF EACH RATED PARTITION AT 10'-0" ON CENTER (MINIMUM ONCE PER ROOM) ABOVE THE CEILING. LETTERING TO BE MINIMUM 1/2" IN HEIGHT AND STATE "FIRE AND/OR SMOKE BARRIER-PROTECT ALL OPENINGS"
4. SEE DETAILS THIS SHEET FOR RATED WALL INTERSECTION PRIORITY INSTALLATION.
5. SEE DETAILS THIS SHEET FOR DETAILS OF WALL CONSTRUCTION AT BOXES RECESSED IN RATED WALLS.
6. PARTITIONS THAT INCLUDE SOUND INSULATION & SEALANT ARE TO BE CONSIDERED ACOUSTIC PARTITIONS AND USE THE ACOUSTIC TERMINATION DETAILS.
7. RATED DESIGN ASSEMBLIES LISTED ARE BASIS OF DESIGN ONLY. ALTERNATES WILL BE ACCEPTED BASED UPON MATERIALS USED SO LONG THAT THE INDICATED RATING IS MAINTAINED.
8. INSTALL CONTROL JOINTS IN METAL STUD WALLS PER DETAIL

PARTITION KEY LEGEND



GEN. HEAD OF WALL NOTES

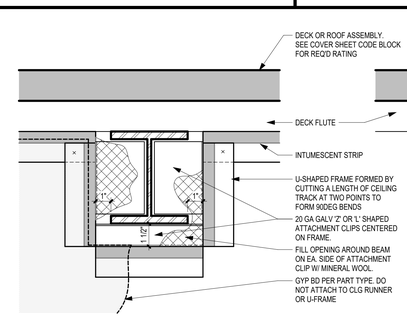
1. PARTITION HEAD DETAILS ARE INTENDED AS GENERAL REFERENCE ONLY.
2. LISTED UL (UNDERWRITERS LABORATORIES) ASSEMBLIES ARE BASIS OF DESIGN ONLY AND NOT ALL REQUIREMENTS ARE SHOWN. REFERENCE UL FOR ADDITIONAL INFORMATION.
3. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND RESEARCH APPLICABLE UL ASSEMBLIES INCLUDING ADDITIONAL ASSEMBLIES THAT MAY BE REQUIRED TO MAINTAIN THE INTEGRITY OF A RATED ASSEMBLY. ADDITIONAL AND ALTERNATE ASSEMBLIES SHOULD BE SUBMITTED TO THE ARCHITECT FOR APPROVAL.
4. FASTEN TRACKS TO SUBSTRATE ABOVE AT 24" O.C. (U.N.O.)
5. DO NOT FASTEN GYP BD TO DEFLECTION TRACK. FASTEN TO EACH VERTICAL STUD 2" MAXIMUM BELOW THE BOTTOM LEG OF THE DEFLECTION TRACK. (U.N.O.)



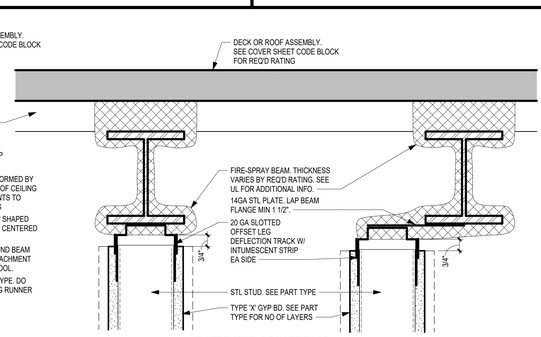
PLAN VIEW

"CJ-03"

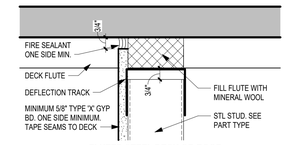
09.21.16.00.CJ03



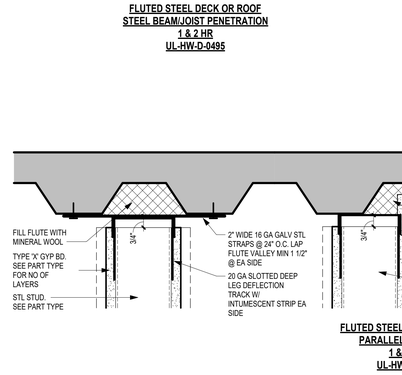
FLUTED STEEL DECK OR ROOF
STEEL BEAM/JOIST PENETRATION
1 & 2 HR
UL-HW-D-0495



FLUTED STEEL DECK OR ROOF
PARALLEL UNDER STEEL BEAM/JOIST
1 & 2 HR
UL-HW-D-0502



FLUTED STEEL DECK OR ROOF
PERPENDICULAR TO FLUTES
PARALLEL SIMILAR
SMOKE PARTITION



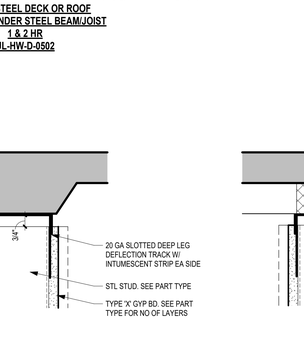
NOTE: SEAL AROUND ALL STRUCT. MEMBERS PENETRATING WALL W/ FIRE SAFING & FIRE CAULK SIMILAR TO THAT SHOWN HERE.

CONSTRUCT HEAD DETAIL IN ACCORDANCE WITH U.L. DESIGN NO. HW-D-1003 2 HR. (HEAD/WALL)

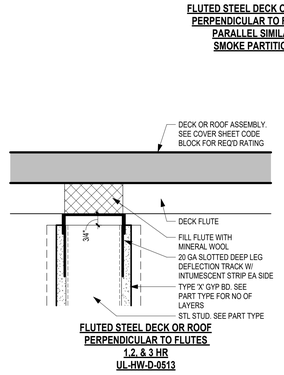
C3 TYPE "V" HEAD OF WALL DETAIL

6" = 1'-0"

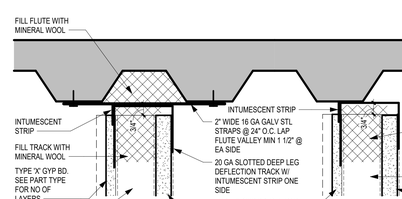
04.22.00.01V HEAD OF WALL DET_1W X 1H



FLUTED STEEL DECK OR ROOF
PARALLEL TO FLUTES
1 & 2 HR
UL-HW-D-0499



FLUTED STEEL DECK OR ROOF
PERPENDICULAR TO FLUTES
1,2, & 3 HR
UL-HW-D-0513



MARK	STRUCT SIZE	PART THICK	S.A.B SIZE	S.T.C	REMARKS
V40	3 5/8"	3 5/8"	-	-	A
V41	3 5/8"	3 5/8"	-	-	B
V60	5 5/8"	5 5/8"	-	-	A
V61	5 5/8"	5 5/8"	-	-	B
V62	5 5/8"	5 5/8"	-	-	C
V80	7 5/8"	7 5/8"	-	-	A
V81	7 5/8"	7 5/8"	-	-	B
V82	7 5/8"	7 5/8"	-	-	C

FIRE RATING: ?

BASIS OF DESIGN: ?

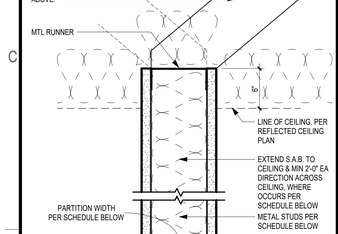
REMARKS:

A. NON RATED ASSEMBLY
B. 1HR RATED
C. 2 HR RATED

V INT.MASONRY LOAD BRG. PART.

SCALE: 3" = 1'-0"

09.22.16.01_V.CMU PARTITION



MARK	STRUCT SIZE	PART THICK	S.A.B SIZE	S.T.C.	REMARKS
A3	3 5/8"	4 7/8"	-	-	A,B
A3A	3 5/8"	4 7/8"	3 1/2"	-	A
A6	6"	7 1/4"	-	-	A,B
A6A	6"	7 1/4"	3 1/2"	-	A

FIRE RATING: N/A

BASIS OF DESIGN: N/A

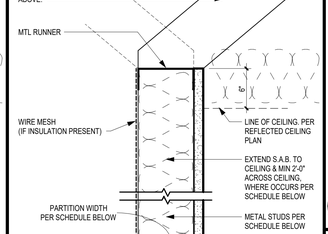
REMARKS:

A. STUD SPACING 16" O.C. MAX
B. OMIT SEALANT

A NON-RATED PARTITION

SCALE: 3" = 1'-0"

09.21.16.01_A.NR PARTITION



MARK	STRUCT SIZE	PART THICK	S.A.B SIZE	S.T.C.	REMARKS
B1	1 5/8"	2 1/4"	-	-	A,B,C
B3	3 5/8"	4 1/4"	-	-	A,B
B3A	3 5/8"	4 1/4"	3 1/2"	-	A
B6	6"	6 5/8"	-	-	A,B
B6A	6"	6 5/8"	3 1/2"	-	A

FIRE RATING: N/A

BASIS OF DESIGN: N/A

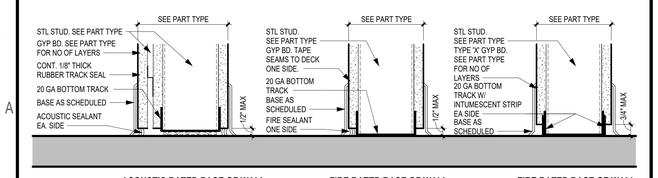
REMARKS:

A. STUD SPACING 16" O.C. MAX.
B. OMIT SEALANT
C. OMIT KICKERS

B NON-RATED PARTITION

SCALE: 3" = 1'-0"

09.21.16.01_B.NR PARTITION



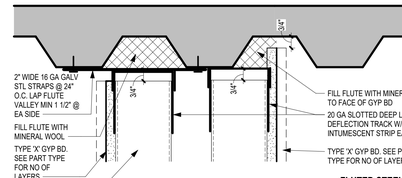
ACOUSTIC RATED BASE OF WALL

FIRE RATED BASE OF WALL
1 & 2 HR
UL-BW-S-0021

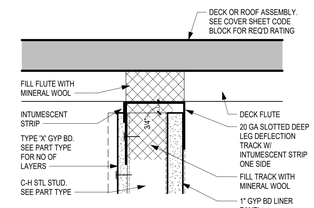
FIRE RATED BASE OF WALL
1 & 2 HR
UL-BW-S-0021

A1 BASE OF WALL DETAILS

3" = 1'-0"

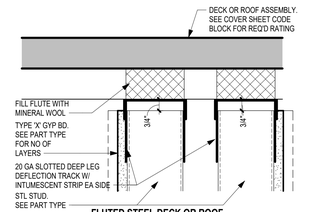


FLUTED STEEL DECK OR ROOF
SHAFT WALL PARALLEL TO FLUTES
1 & 2 HR
UL-HW-D-0496



FLUTED STEEL DECK OR ROOF
SHAFT WALL PERPENDICULAR TO FLUTES
1 & 2 HR
UL-HW-D-0504

FLUTED STEEL DECK OR ROOF
CHASE WALL PARALLEL TO FLUTES
1 & 2 HR
UL-HW-D-0544



FLUTED STEEL DECK OR ROOF
CHASE WALL PERPENDICULAR TO FLUTES
1 & 2 HR
UL-HW-D-0506

A4 HEAD OF WALL DETAILS

3" = 1'-0"

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Proposed:
CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE
360 ECOLOGY DRIVE
ST. PETERS, MO 63376

No.	Revision	Date

PARTITION DETAILS TYP.

Project No. 23121

Sheet No. A004

Date 09/16/2025

9/3/2025 7:25:35 PM
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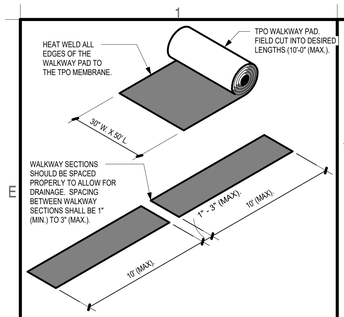
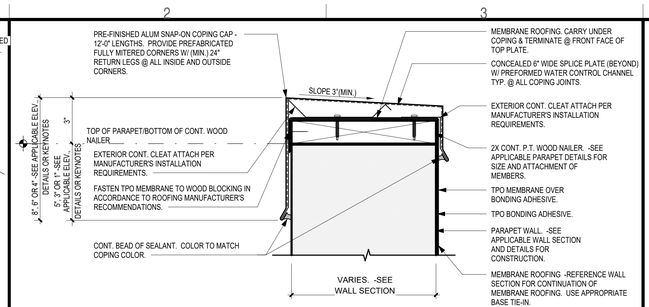
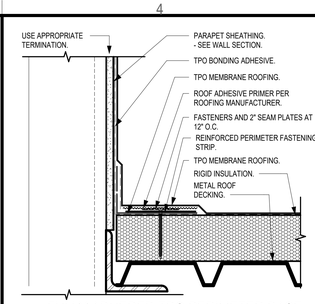


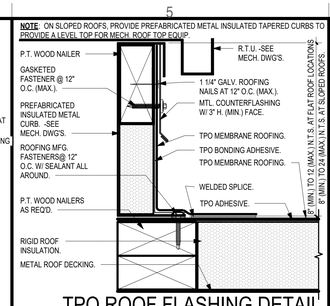
E1 TPO ROOF WALKWAY PAD DETAIL
N.T.S. 07.53.00.03 TPO ROOF WALKWAY PAD DET



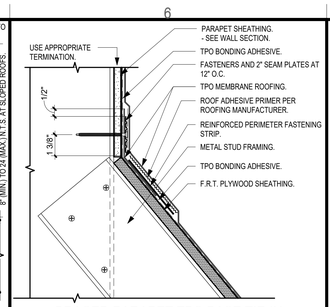
E2 T.P.O. ROOFING TERM. DET. AT TOP OF PARAPET WALL
3" = 1'-0" 07.53.00.01 TPO PARAPET TERM DET_2W X 1H



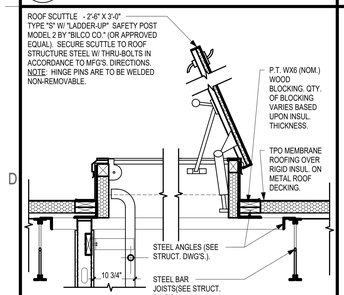
E4 FULLY ADHERED TPO PERIMETER BASE TIE-IN DETAIL
3" = 1'-0" 07.53.00.02 BASE TIE-IN DET TPO



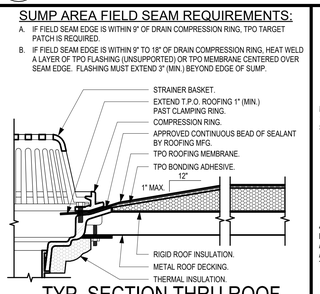
E5 TPO ROOF FLASHING DETAIL @ PREFAB. ROOF CURB
N.T.S. 07.53.00 TPO ROOF CURB DET 1W X 1H



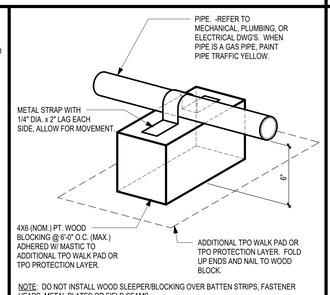
E6 BRACED PARAPET TPO BASE TIE-IN PERIMETER DETAIL
3" = 1'-0" 07.53.00.02A BRACED PARAPET TPO BASE TIE-IN



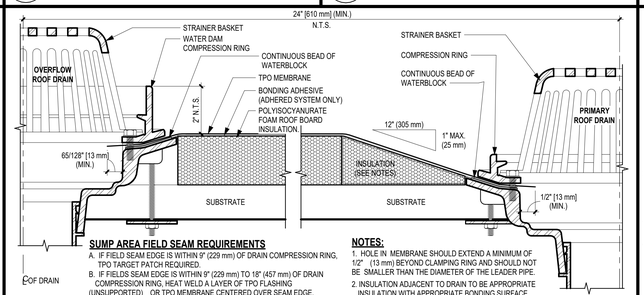
D1 SECT. THRU ROOF SCUTTLE
3/4" = 1'-0" 07.72.00. ROOF SCUTTLE SECT TPO



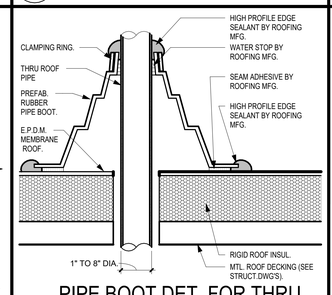
D2 TYP. SECTION THRU ROOF DRAIN (TPO MEMB. ROOF)
3" = 1'-0" 22.10.06. ROOF DRAIN_TPO_TYP



D3 ROOF PIPE SUPPORT DETAIL
N.T.S. 22.20.08 ROOF PIPE SUPPORT DETAIL TPO

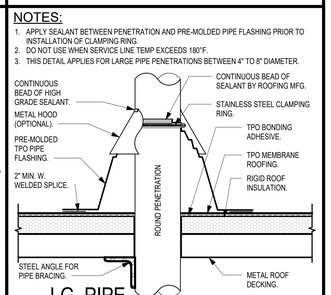


D4 TYPICAL OVERFLOW & PRIMARY ROOF DRAIN DETAIL
N.T.S. 22 10 06A_TYPICAL OVERFLOW & PRIMARY ROOF DRAIN DETAIL_2W X 1H

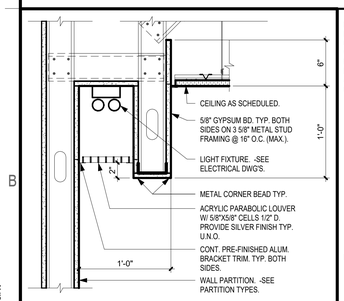


D6 PIPE BOOT DET. FOR THRU ROOF PIPE PENETRATION
3" = 1'-0" 07.53.00. THRU ROOF PIPE PEN. DET.

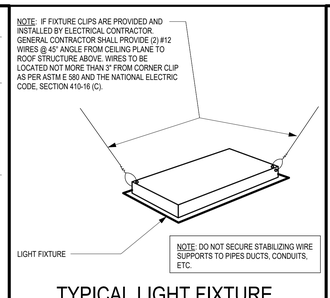
NOTES:
1. APPLY SEALANT BETWEEN PENETRATION AND PRE-MOLDED PIPE FLASHING PRIOR TO INSTALLATION OF CLAMPING RING.
2. DO NOT USE WHEN SERVICE LINE TEMP EXCEEDS 180°F.
3. THIS DETAIL APPLIES FOR LARGE PIPE PENETRATIONS BETWEEN 4" TO 8" DIAMETER.



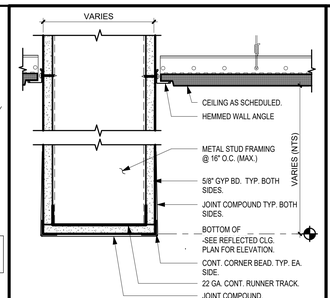
D7 LG. PIPE THRU ROOF PEN. DETAIL
N.T.S. 07.53.00. LG PIPE PEN DETAIL TPO



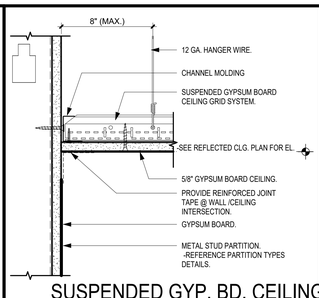
B1 LIGHT COVE DETAIL
N.T.S. 09.00.00. 01 LIGHT COVE DET



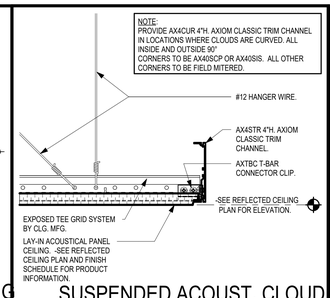
B2 TYPICAL LIGHT FIXTURE SEISMIC RESTRAINT DETAIL
N.T.S. 09.50.00.03 FIXT REST DET



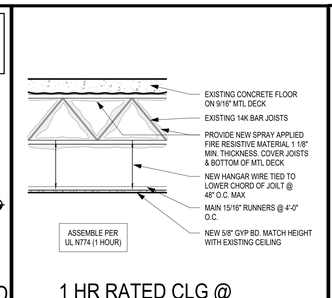
B3 BULKHEAD/HEADER DETAIL
3" = 1'-0" 09.00.00.08B TYP BULKHEAD DET



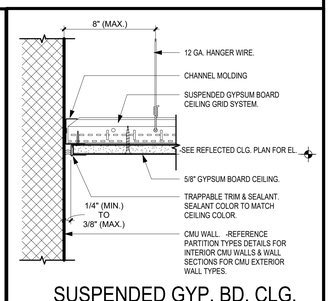
B4 SUSPENDED GYP. BD. CEILING DETAIL @ GYP. BD. PARTITION
3" = 1'-0" 09.50.00. 12 SUS GYP CLG DET _1W X 1H



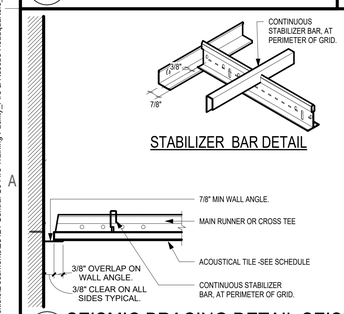
B5 SUSPENDED ACOUST. CLOUD DETAIL @ EXPOSED CEILINGS
3" = 1'-0" 09.50.00.00 ACCOUST CLOUD DETAIL



B6 1 HR RATED CLG @ EXIST STAIR LOWER LEVEL
3/4" = 1'-0" 09.50.00. 03 1 HR CLG



B7 SUSPENDED GYP. BD. CLG. DETAIL @ CMU PARTITION
3" = 1'-0" 09.50.00. 12A SUS GYP CLG DET @ CMU WALL_1W X 1H

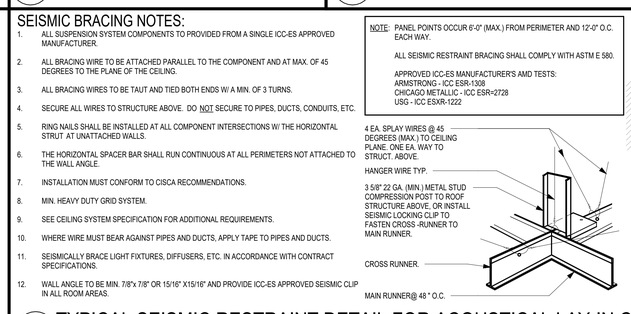


SEISMIC BRACING NOTES:
1. MINIMUM 7/8" WALL MOLDING. GRID SHALL NOT BE ATTACHED TO THE WALL MOLDING. 3/8" CLEARANCE SHALL BE PROVIDED ON ALL SIDES BETWEEN THE GRID AND THE WALL.
2. ENDS OF MAIN BEAMS AND CROSS TEES MUST BE TIED TOGETHER TO PREVENT THEIR SPREADING.
3. THE HORIZONTAL STABILIZER BAR SHALL RUN CONTINUOUS AT ALL PERIMETERS.
4. INSTALLATION MUST CONFORM TO ASTM C636 AND CISCA RECOMMENDATIONS.
5. MIN. INTERMEDIATE DUTY GRID SYSTEM WITH A MINIMUM 60 LBS CONNECTION STRENGTH.
6. WHERE WIRE MUST BEAR AGAINST PIPES AND DUCTS, APPLY TAPE TO PIPES AND DUCTS.
7. ALL LIGHT FIXTURES SHALL BE MECHANICALLY ATTACHED TO GRID PER NEC
8. PENDANT HUNG FIXTURES SHALL BE DIRECTLY SUPPORTED FROM STRUCTURE WITH 9 GAUGE WIRE.
9. RIGID LAY-IN OR CAN LIGHT FIXTURES:
   A. WEIGHING LESS THAN 10 LBS. SHALL BE ATTACHED WITH (1) ONE WIRE TO STRUCTURE. WIRE MAY BE SLACK.
   B. WEIGHING 10-56 LBS. SHALL BE ATTACHED WITH (2) TWO WIRES FROM HOUSING TO STRUCTURE. WIRE MAY BE SLACK.
   C. WEIGHING OVER 56 LBS SHALL BE SUPPORTED DIRECTLY TO STRUCTURE BY APPROVED HANGERS.
10. MECHANICAL AIR TERMINALS.
   A. WEIGHING LESS THAN 20 LBS. SHALL BE POSITIVELY ATTACHED TO THE GRID.
   B. WEIGHING 20-56 LBS. SHALL BE POSITIVELY ATTACHED TO THE GRID AND (2) TWO 12 GAUGE WIRES TO STRUCTURE. WIRE MAY BE SLACK.
   C. WEIGHING OVER 56 LBS. SHALL BE SUPPORTED DIRECTLY TO STRUCTURE BY APPROVED HANGERS.
11. SPRINKLER HEADS AND OTHER PENETRATIONS SHALL HAVE MINIMUM OF 3/8INCH CLEARANCE ON ALL SIDES.

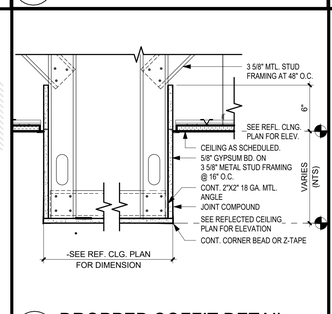
A1 SEISMIC BRACING DETAIL SEISMIC CATEGORY "C"
N.T.S. 09.50.00. 04 SEISMIC CAT C DET

SEISMIC BRACING NOTES:
1. ALL SUSPENSION SYSTEM COMPONENTS TO PROVIDED FROM A SINGLE ICC-ES APPROVED MANUFACTURER.
2. ALL BRACING WIRE TO BE ATTACHED PARALLEL TO THE COMPONENT AND AT MAX. OF 45 DEGREES TO THE PLANE OF THE CEILING.
3. ALL BRACING WIRES TO BE TAUT AND TIED BOTH ENDS W/ A MIN. OF 3 TURNS.
4. SECURE ALL WIRES TO STRUCTURE ABOVE. DO NOT SECURE TO PIPES, DUCTS, CONDUITS, ETC.
5. RING NAILS SHALL BE INSTALLED AT ALL COMPONENT INTERSECTIONS W/ THE HORIZONTAL STRUT AT UNATTACHED WALLS.
6. THE HORIZONTAL SPACER BAR SHALL RUN CONTINUOUS AT ALL PERIMETERS NOT ATTACHED TO THE WALL ANGLE.
7. INSTALLATION MUST CONFORM TO CISCA RECOMMENDATIONS.
8. MIN. HEAVY DUTY GRID SYSTEM.
9. SEE CEILING SYSTEM SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
10. WHERE WIRE MUST BEAR AGAINST PIPES AND DUCTS, APPLY TAPE TO PIPES AND DUCTS.
11. SEISMICALLY BRACE LIGHT FIXTURES, DIFFUSERS, ETC. IN ACCORDANCE WITH CONTRACT SPECIFICATIONS.
12. WALL ANGLE TO BE MIN. 7/8"x 7/8" OR 15/16" X15/16" AND PROVIDE ICC-ES APPROVED SEISMIC CLIP IN ALL ROOM AREAS.

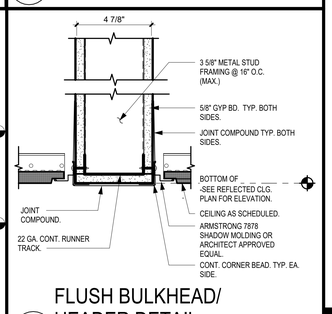
NOTE: PANEL POINTS OCCUR 6'-0" (MAX.) FROM PERIMETER AND 12'-0" O.C. EACH WAY.
ALL SEISMIC RESTRAINT BRACING SHALL COMPLY WITH ASTM E 580.
APPROVED ICC-ES MANUFACTURER'S AMD TESTS:
ARMSTRONG - ICC ESR-1308
CHICAGO METALLIC - ICC ESR=2728
USG - ICC ESXR-1222



A3 TYPICAL SEISMIC RESTRAINT DETAIL FOR ACOUSTICAL LAY-IN CEILINGS AT ZONES D, E, AND F
N.T.S. 09.50.00. 05 SEISMIC BRACING DET



A6 DROPPED SOFFIT DETAIL
1 1/2" = 1'-0" 09 29 00 03 DROPPED SOFFIT AT PARTITION



A7 FLUSH BULKHEAD/ HEADER DETAIL
3" = 1'-0" 09.00.00.08D TYP BULKHEAD DET

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Proposed:
CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE
ST. PETERS, MO 63376
3800/340 ECOLOGY DRIVE

No.	Date	Revision

CEILING & ROOF DETAILS TYP.

Project No. 23121
Sheet No. A005
Date 09/16/2025

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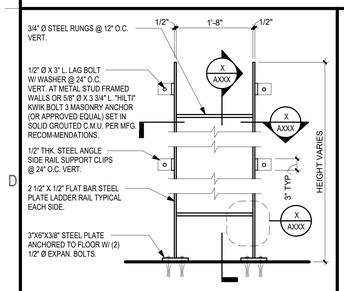
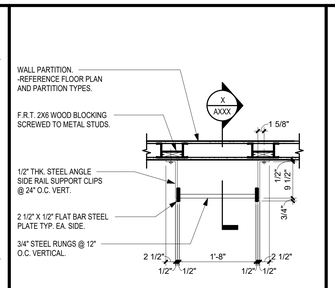
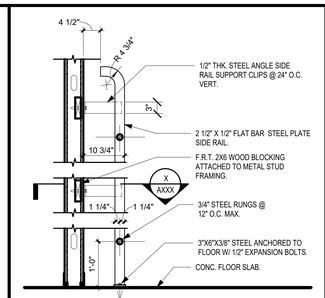


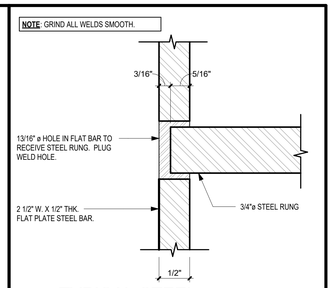
D1 STEEL LADDER FRONT ELEV.
3/4" = 1'-0"
05.51.33.01 STEEL LADDER ELEV.



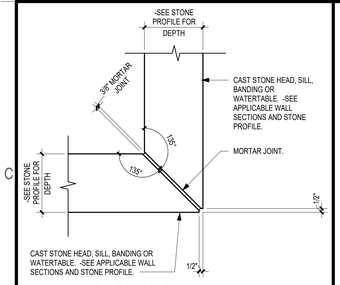
D2 STEEL LADDER PLAN VIEW
3/4" = 1'-0"
05.51.33.02 STEEL LADDER PLAN



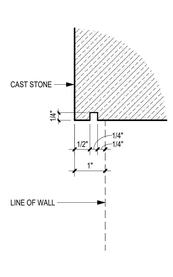
D3 SECT. THRU STEEL LADDER
3/4" = 1'-0"
05.51.33.03 STEEL LADDER SECT



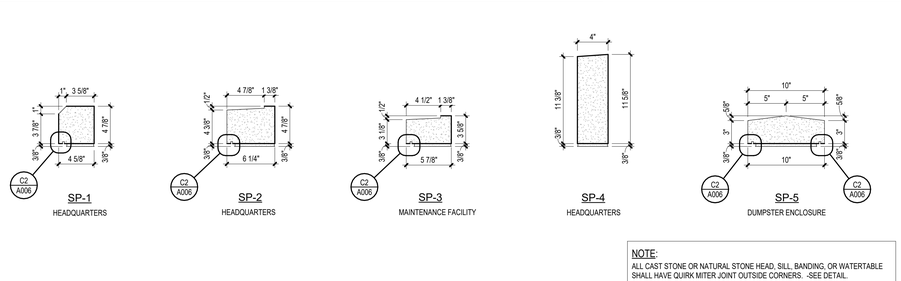
D4 TYPICAL STEEL LADDER RUNG DETAIL
FULL SCALE
05.51.33.04 STEEL LADDER RUNG DET



C1 90° CAST STONE QUIRK MITERED CORNER JOINT PLAN DETAIL
3" = 1'-0"
04.72.00 CASTSTONE QUIRK MIT JT CORNER DET



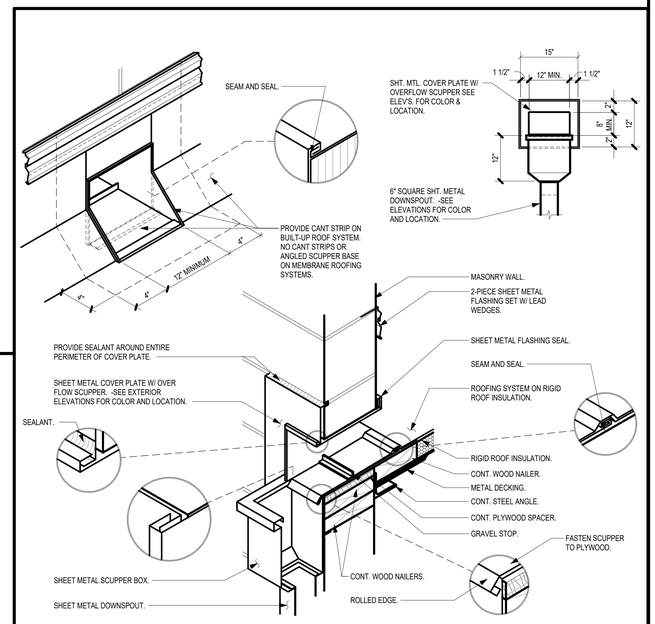
C2 TYPICAL CAST STONE DRIP
HALF SCALE
04.72.00 TYP. CAST STONE DRIP



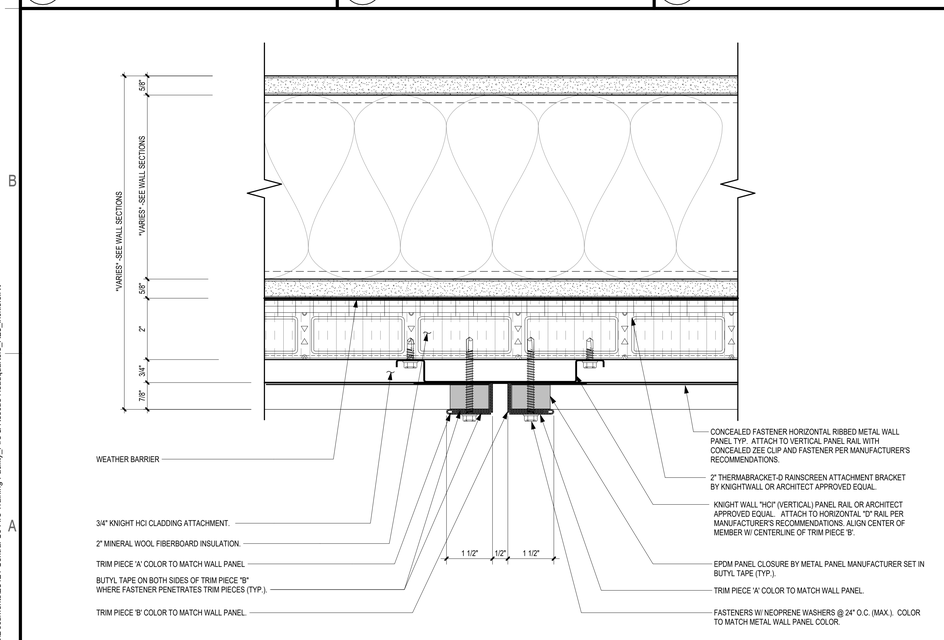
C3 TYPICAL CAST STONE PROFILES
1 1/2" = 1'-0"
04.72.00 TYP. CAST STONE PROFILES

NOTE:
ALL CAST STONE OR NATURAL STONE HEAD, SILL, BANDING, OR WATERTABLE SHALL HAVE QUIRK MITER JOINT OUTSIDE CORNERS. -SEE DETAIL.

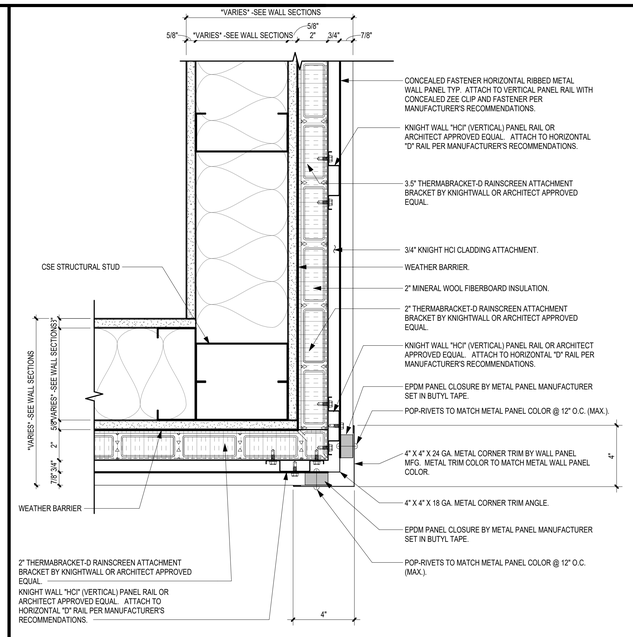
ALL SKY FACING JOINTS TO HAVE 3/8" SEALANT JOINT. COLOR TO MATCH ADJACENT MATERIAL.



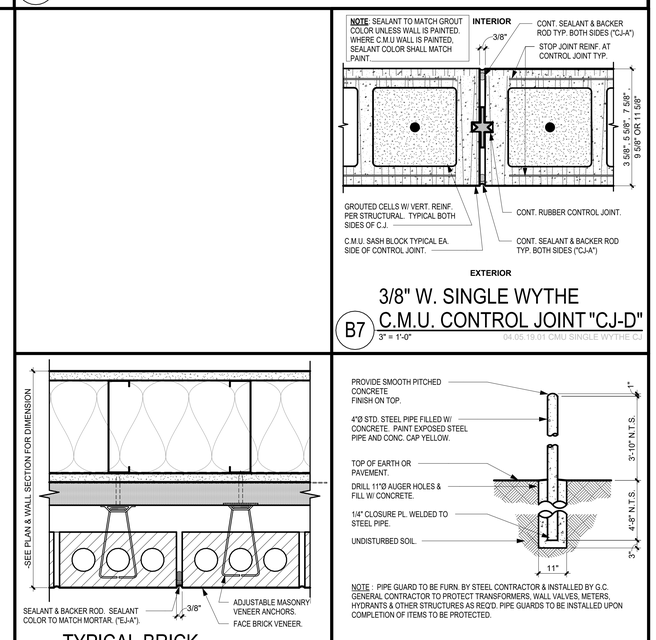
C6 TYPICAL METAL SCUPPER BOX AND DOWNSPOUT DETAIL
NTS SCALE VARIES
07.62.00.01_SCUPPER BOX AND DOWNSPOUT DET 2W X 2H



A1 TYPICAL METAL PANEL VERTICAL JOINT DETAIL
HALF SCALE
07.42.13_METAL PANEL VERTICAL JOINT_CMU_2W X2H



A4 TYPICAL METAL PANEL OUTSIDE CORNER DETAIL
3" = 1'-0"
07.42.13_METAL PANEL OUTSIDE CORNER_2W X2H



B7 3/8" W. SINGLE WYTHE C.M.U. CONTROL JOINT "CJ-D"
3" = 1'-0"
04.05.19.01 CMU SINGLE WYTHE CJ

A6 TYPICAL BRICK EXPANSION JOINT "EJ-A"
3" = 1'-0"
04.21.00.02 BRICK EJ

A7 TYPICAL BOLLARD DETAIL
SCALE: 1/2"=1'-0"

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ST. PETERS, MO 63376
360/340 ECOLOGY DRIVE

No.	Date	Revision

DETAILS TYP.

Project No. 23121
Sheet No. A006
Date 09/16/2025

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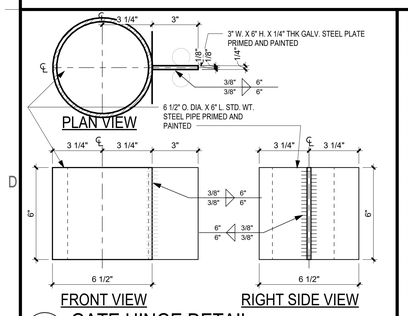
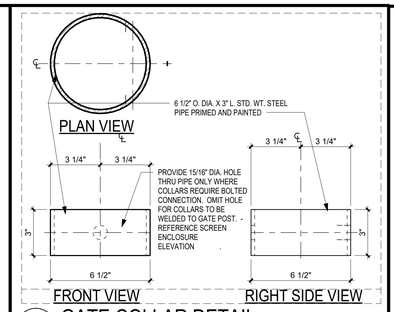
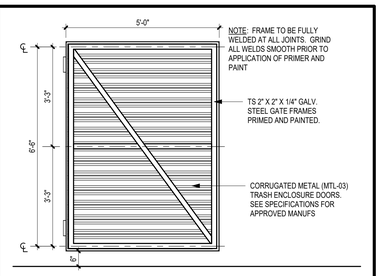
SCALE: 3" = 1'-0" / SCALE: 1 1/2" = 1'-0" / SCALE: 1" = 1'-0" / SCALE: 3/4" = 1'-0" / SCALE: 1/2" = 1'-0" / SCALE: 3/8" = 1'-0" / SCALE: 1/4" = 1'-0" / SCALE: 1/8" = 1'-0" / SCALE: 3/32" = 1'-0" / SCALE: 1/16" = 1'-0"



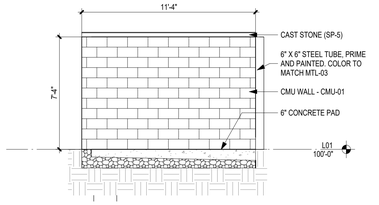
D1 GATE HINGE DETAIL
3" = 1'-0"
32 30 00. 04 HINGE DETAIL



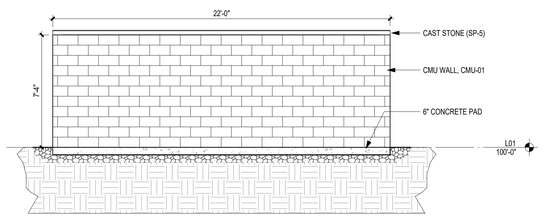
D2 GATE COLLAR DETAIL
3" = 1'-0"
32 30 00. 05 GATE COLLAR DETAIL



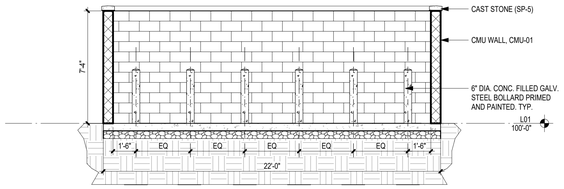
D3 DUMPSTER ENCLOSURE GATE DETAIL (SINGLE LEAF)
1/2"=1'-0"



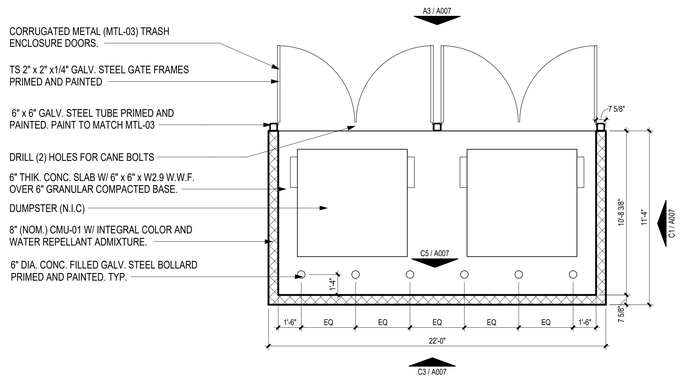
C1 DUMPSTER ENCLOSURE ELEVATION -SIDE
1/4" = 1'-0"



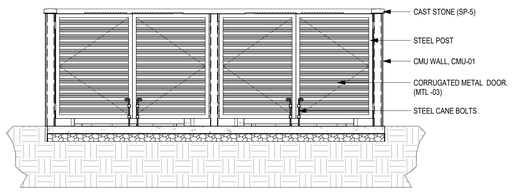
C3 DUMPSTER ENCLOSURE ELEVATION -REAR
1/4" = 1'-0"



C5 DUMPSTER ELEVATION - INSIDE BACK
1/4" = 1'-0"



A1 DUMPSTER ENCLOSURE UPDATE
1/4" = 1'-0"



A3 DUMPSTER ENCLOSURE ELEVATION -FRONT
1/4" = 1'-0"

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360/340 ECOLOGY DRIVE
ST. PETERS, MO 63376

No.	Date	Revision

DUMPSTER ENCLOSURE

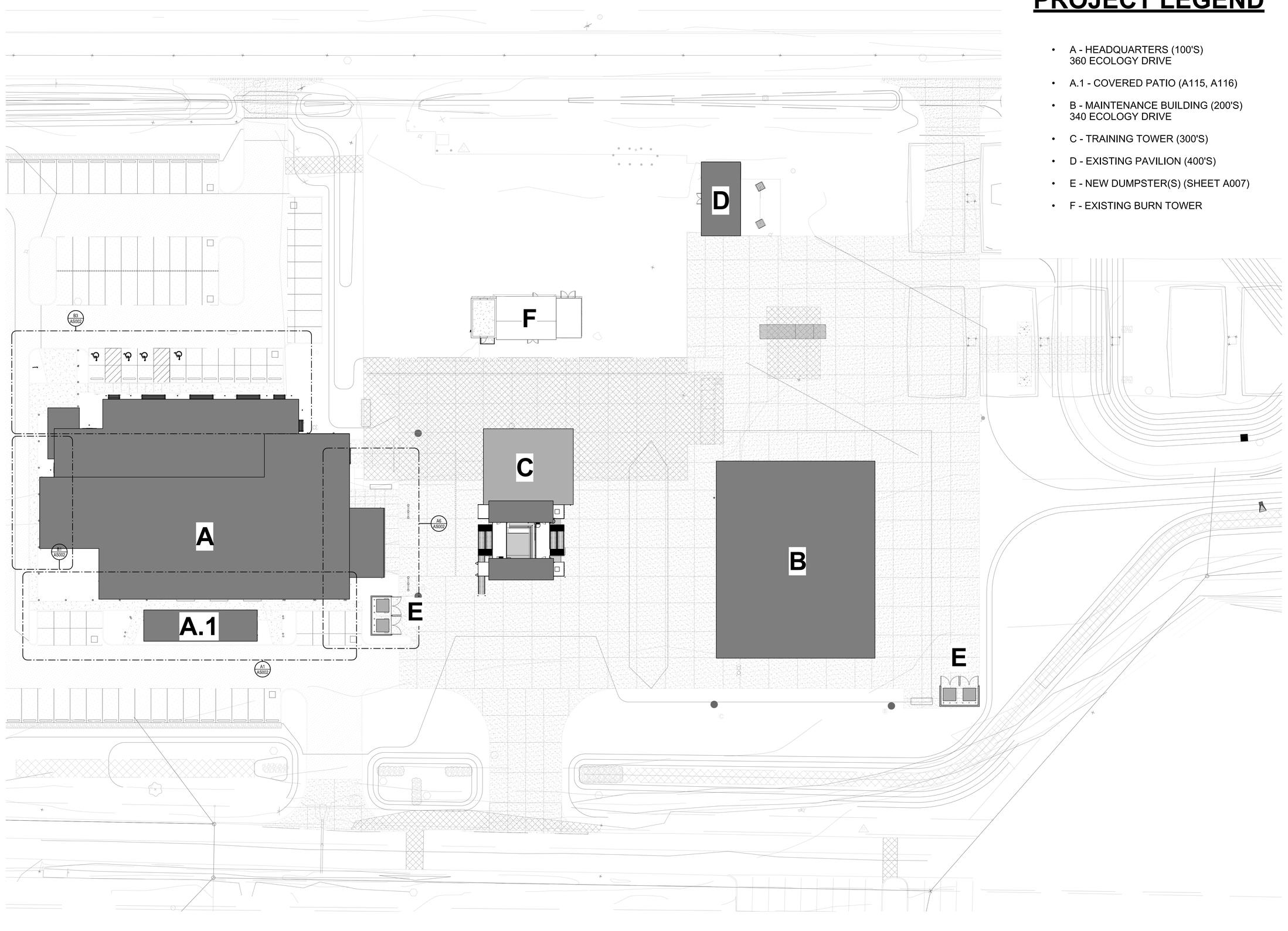
Project No.
23121

Sheet No.
A007

Date
09/16/2025

PROJECT LEGEND

- A - HEADQUARTERS (100'S)
  360 ECOLOGY DRIVE
- A.1 - COVERED PATIO (A115, A116)
- B - MAINTENANCE BUILDING (200'S)
  340 ECOLOGY DRIVE
- C - TRAINING TOWER (300'S)
- D - EXISTING PAVILION (400'S)
- E - NEW DUMPSTER(S) (SHEET A007)
- F - EXISTING BURN TOWER



A1 SITE PLAN
1" = 20'-0"

SCALE: 3" = 1'-0"
SCALE: 1 1/2" = 1'-0"
SCALE: 1" = 1'-0"
SCALE: 3/4" = 1'-0"
SCALE: 1/2" = 1'-0"
SCALE: 3/8" = 1'-0"
SCALE: 1/4" = 1'-0"
SCALE: 1/8" = 1'-0"
SCALE: 3/32" = 1'-0"
SCALE: 1/16" = 1'-0"

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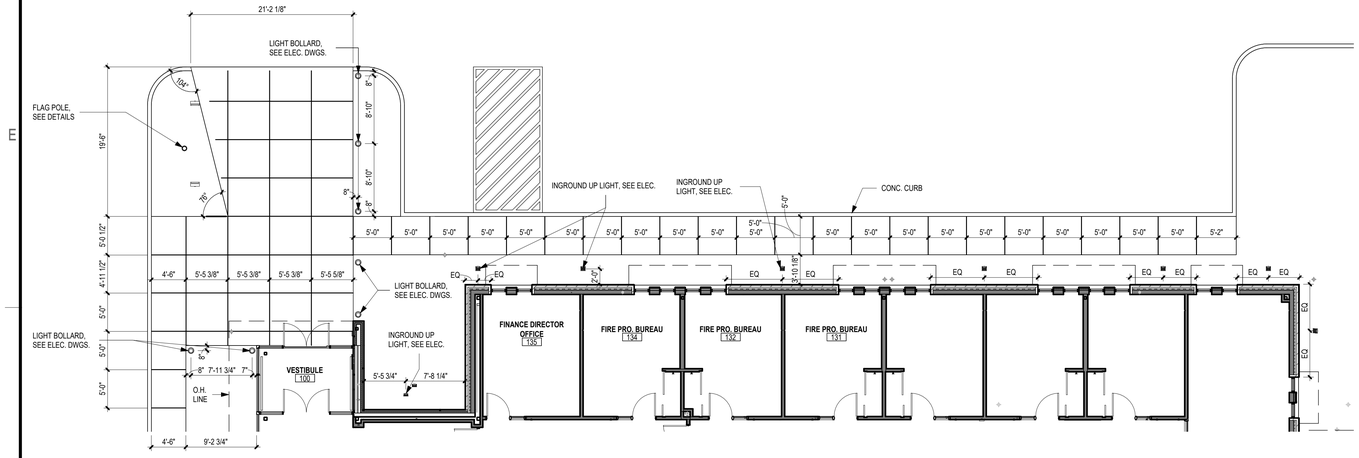
ARCHITECTURAL SITE PLAN

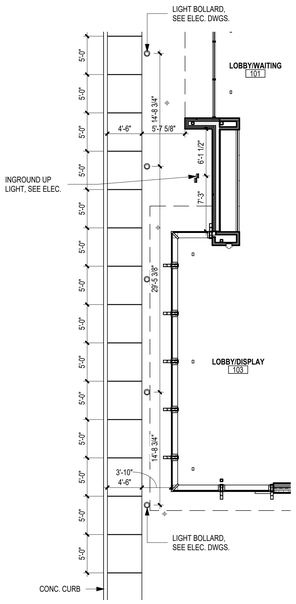
Project No.
23121

Sheet No.
AS001

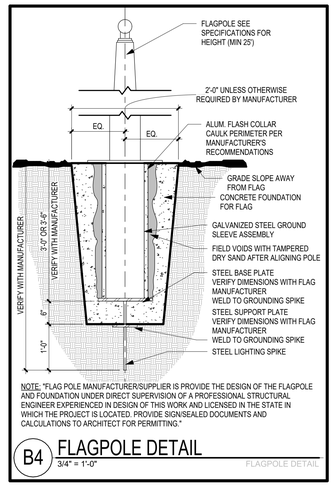
Date
09/16/2025



B3 HQ ENLARGED SITE PLAN NORTH ENTRY
1/8" = 1'-0"

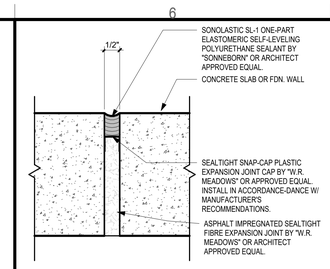


B1 HQ ENLARGED SITE PLAN WEST
1/8" = 1'-0"



NOTE: "FLAG POLE MANUFACTURER/SUPPLIER IS PROVIDE THE DESIGN OF THE FLAGPOLE AND FOUNDATION UNDER DIRECT SUPERVISION OF A PROFESSIONAL STRUCTURAL ENGINEER EXPERIENCED IN DESIGN OF THIS WORK AND LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED. PROVIDE SIGN/SEALED DOCUMENTS AND CALCULATIONS TO ARCHITECT FOR PERMITTING."

B4 FLAGPOLE DETAIL
3/4" = 1'-0"
FLAGPOLE DETAIL



E6 TYPICAL EXTERIOR EXPANSION JOINT DETAIL (CJ-W-2)
HALF SCALE
03.15.00.01 SM DTL CONC .5 EJ

SITE DETAIL GENERAL NOTES

1.) REFERENCE APPLICABLE DIMENSIONED FLOOR PLANS, EQUIPMENT/SYMBOLS FLOOR PLANS, REFLECTED CEILING PLANS, ROOF PLANS, INTERIOR ELEVATIONS, EXTERIOR BUILDING ELEVATIONS AND STRUCTURAL DRAWINGS FOR SUPPLEMENTAL/ADDITIONAL INFORMATION.

2.) GENERAL CONTRACTOR AND MASON CONTRACTOR TO THOROUGHLY REVIEW THE WALL SECTIONS IN CONJUNCTION WITH INTERIOR ELEVATIONS TO DETERMINE THE LOCATION OF WHERE VARYING CMU TYPES, TEXTURE AND FINISHES ARE TO OCCUR. REFERENCE INTERIOR FINISH SCHEDULE SHEET FOR CMU TYPES.

3.) CMU-1 IS TYPICAL THROUGHOUT UNLESS OTHERWISE INDICATED ON THE WALL SECTIONS AND/OR INTERIOR ELEVATIONS.

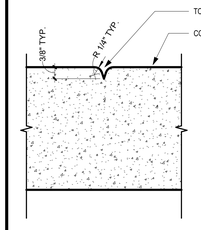
4.) REFER TO STRUCTURAL DRAWINGS FOR CATWALK CONSTRUCTION AND DETAILS WHICH MAY NOT BE INDICATED ON THE ARCHITECTURAL PLANS AND WALL SECTIONS.

5.) GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL FINAL SLAB ON GRADE ELEVATIONS WITH SCHEDULED FINISH FLOOR MATERIALS PRIOR TO CONSTRUCTION.

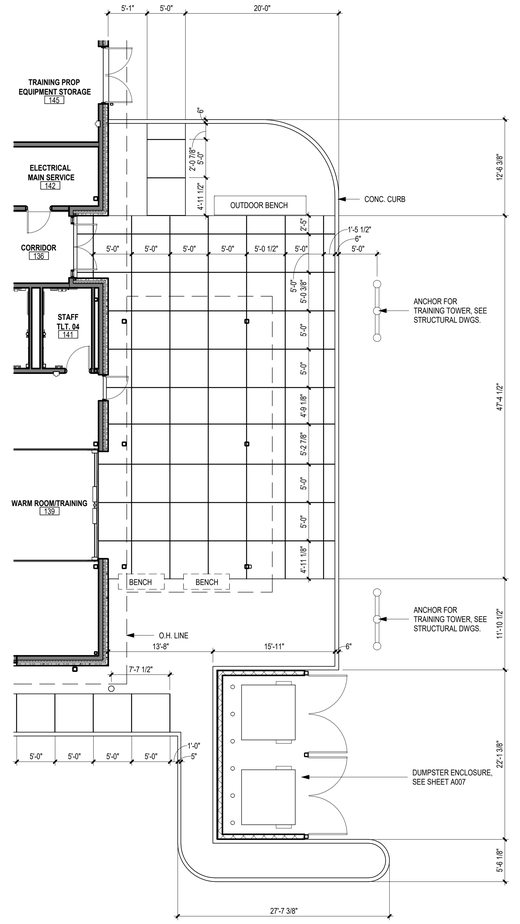
6.) REFERENCE PLUMBING DRAWINGS FOR PERIMETER FOUNDATION DRAINAGE LOCATIONS AND CRITICAL INVERT ELEVATIONS.

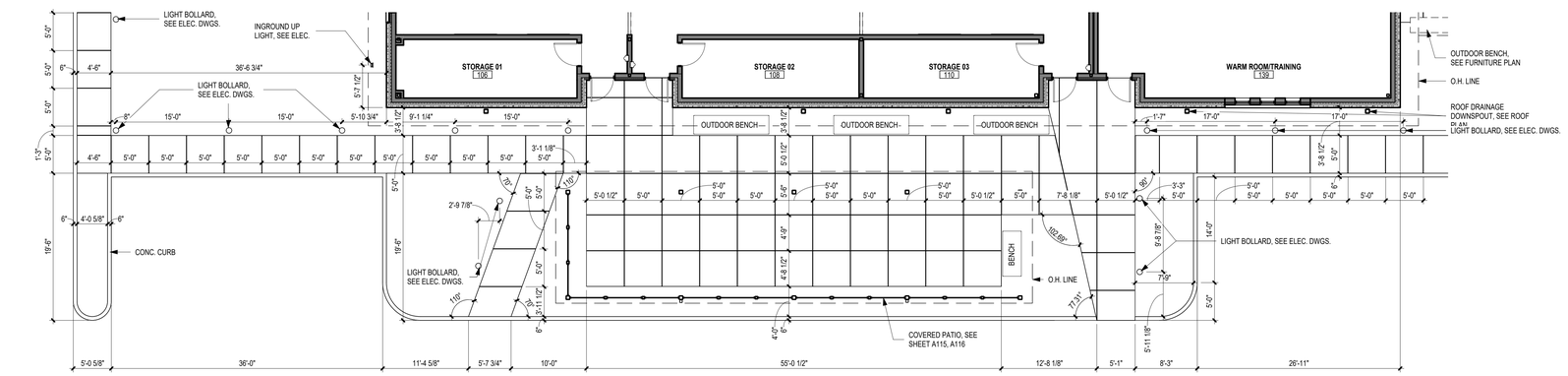
7.) WHERE GUARDRAILS OR HANDRAILS ARE INDICATED REFERENCE DETAILS FOR HANDRAIL/GUARDRAIL TYPES.

8.) WHERE CAST STONE IS INDICATED REFERENCE SHEET A006 FOR CAST STONE PROFILE TYPES. ALL CAST STONE ANCHORS SHALL BE DESIGNED, SPECIFIED AND INDICATED ON SUBMITTAL DOCUMENTATION BY CAST STONE MANUFACTURER.



D7 TYPICAL EXTERIOR TOOLED CONTROL JOINT DETAIL (CJ-W-1)
HALF SCALE
03.15.00.03 SM DTL CONC CJ_TWXTR





A1 HQ ENGLARGED SITE PLAN SOUTH
1/8" = 1'-0"

A6 HQ ENLARGED SITE PLAN EAST
1/8" = 1'-0"

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ARCHITECTURAL SITE DETAILS

Project No. 23121
Sheet No. AS002
Date 09/16/2025

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STRUCTURAL GENERAL NOTES

DIVISION 1 - GENERAL REQUIREMENTS

a. CONSTRUCTION MEANS AND METHODS
   A. CONTRACTOR AND SUBS SHALL NOT SCALE DRAWINGS FOR PURPOSES OF CONSTRUCTION. NOTIFY ARCHITECT OF ANY DIMENSIONAL DISCREPANCIES FOUND BETWEEN DISCIPLINES.
   B. CONTRACTOR AGREES THAT CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF THE WORK, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD OWNER AND STRUCTURAL ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF OWNER OR STRUCTURAL ENGINEER.
   C. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INCLUDE THE METHOD OF CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO: PROTECTION OF SUBGRADE FROM FREEZING CONDITIONS, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, TEMPORARY STRUCTURES, AND PARTIALLY COMPLETED WORK. OBSERVATION VISITS TO THE SITE BY STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
   D. KPFF CONSULTING ENGINEERS SHALL NOT HAVE CONTROL OVER OR CHARGE OF AND SHALL NOT BE RESPONSIBLE IN ANY WAY FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, OR FOR SAFETY OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH ANY CONSTRUCTION ACTIVITIES, SINCE THESE ARE SOLELY CONTRACTOR'S RESPONSIBILITY UNDER THE CONTRACT.
   E. KPFF CONSULTING ENGINEERS SHALL NOT BE RESPONSIBLE FOR CONTRACTOR'S SCHEDULE OR FAILURES TO CARRY OUT ANY CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. KPFF CONSULTING ENGINEERS SHALL NOT HAVE CONTROL OVER OR CHARGE OF ACTIONS OF CONTRACTOR, SUBCONTRACTOR, OR ANY OF THEIR AGENTS OR EMPLOYEES, OR ANY OTHER PERSONS PERFORMING PORTIONS OF ANY CONSTRUCTION ACTIVITIES.
   F. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS WHICH MAY BE REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DETERMINED, FURNISHED, AND INSTALLED BY THE CONTRACTOR.

b. SUBMITTALS
   A. SUBMITTALS PREPARED BY SUBCONTRACTORS SHALL BE REVIEWED BY CONTRACTOR PRIOR TO SUBMITTING TO ARCHITECT.
   B. REPRODUCTION OF STRUCTURAL DRAWINGS SHALL BE IN ACCORDANCE WITH AISC CODE OF STANDARD PRACTICE.
   C. CONTRACTOR SHALL VERIFY THE STRUCTURALLY SUPPORTED EQUIPMENT WEIGHTS, OPENING SIZES, AND LOCATIONS INDICATED ON THE STRUCTURAL DRAWINGS WITH DOCUMENTS FROM OTHER DISCIPLINES AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
   D. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING SIZE, METHOD OF ANCHORAGE, WEIGHT, OPENINGS, AND LOCATIONS OF EQUIPMENT WHICH INTENDED ON THE STRUCTURAL DRAWINGS PRIOR TO ORDERING FOR REVIEW BY STRUCTURAL ENGINEER TO DETERMINE ADEQUACY OF THE STRUCTURE.
   E. ALL SUBMITTALS REVIEWED BY STRUCTURAL ENGINEER ARE REVIEWED FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY AND DOES NOT RELIEVE CONTRACTOR OF RESPONSIBILITY FOR CONFORMANCE WITH DESIGN DRAWINGS AND SPECIFICATIONS, ALL OF WHICH HAVE PRIORITY OVER SUBMITTALS.
   F. SUBMITTALS SHALL BE REVIEWED WITHIN 10 WORKING DAYS AFTER BEING RECEIVED BY STRUCTURAL ENGINEER.

c. QUALITY REQUIREMENTS
   A. REFERENCE TO STANDARD SPECIFICATIONS OR CODES OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE STANDARDS IN EFFECT AS OF DATE OF THE CONTRACT DOCUMENTS, UNLESS OTHERWISE NOTED.
   B. CONTRACT DOCUMENTS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH STANDARD SPECIFICATIONS OR CODES OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION.
   C. NO PROVISION OF ANY REFERENCED STANDARD SPECIFICATION OR CODE, WHETHER OR NOT SPECIFICALLY INCORPORATED BY REFERENCE IN THE CONTRACT DOCUMENTS, SHALL BE EFFECTIVE TO CHANGE THE DUTIES AND RESPONSIBILITIES OF OWNER, ARCHITECT, STRUCTURAL ENGINEER, CONTRACTOR, ANY OF THEIR CONSULTANTS, AGENTS, OR EMPLOYEES FROM THOSE SET FORTH IN THE CONTRACT DOCUMENTS, NOR SHALL IT BE EFFECTIVE TO ASSIGN TO STRUCTURAL ENGINEER OR ANY OF STRUCTURAL ENGINEER'S CONSULTANTS, AGENTS, OR EMPLOYEES ANY DUTY OR AUTHORITY TO SUPERVISE OR DIRECT THE FURNISHING OR PERFORMANCE OF THE WORK OR ANY DUTY OR AUTHORITY TO UNDERTAKE RESPONSIBILITIES CONTRARY TO THE PROVISIONS OF THE CONTRACT DOCUMENTS.
   D. ALL OMISSIONS AND CONFLICTS WITHIN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
   E. CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS AT THE JOB SITE. ANY DISCREPANCIES BETWEEN THE CONDITIONS FOUND AND THOSE INDICATED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
   F. SEE DOCUMENTS BY OTHER DISCIPLINES FOR FLOOR, WALL, AND ROOF OPENINGS, TRENCHES, PITS, PIPE SLEEVES, EQUIPMENT PADS, METAL PAN STAIRS, MISCELLANEOUS IRON, ETC.
   G. NO PIPES, CONDUITS, SLEEVES, DUCTS, CHASES, ETC. SHALL BE PLACED WITHIN STRUCTURAL WALLS, BEAMS, SLABS OR COLUMNS NOR SHALL ANY STRUCTURAL MEMBERS BE CUT FOR PIPES, DUCTS, ETC., UNLESS SPECIFICALLY NOTED. NOTIFY STRUCTURAL ENGINEER WHEN DOCUMENTS BY OTHER DISCIPLINES SHOW OPENINGS, POCKETS, CONDUITS, SLEEVES, ETC. THAT ARE NOT INDICATED IN THE STRUCTURAL DRAWINGS, BUT ARE LOCATED IN STRUCTURAL MEMBERS. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FROM STRUCTURAL ENGINEER FOR INSTALLATION OF SUCH PIPES, DUCTS, CHASES, ETC.
   H. DETAILS LABELED "TYPICAL" ON THE STRUCTURAL DRAWINGS APPLY TO ALL SITUATIONS OCCURRING ON PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE LOCATIONS SPECIFICALLY INDICATED. WHERE A DETAIL IS NOT INDICATED, THE DETAIL SHALL BE THE SAME AS FOR SIMILAR CONDITIONS.
   I. THE DESIGN RESPONSIBILITY OF THE ELEMENTS LISTED BELOW IS BEING DELEGATED TO A SPECIALTY STRUCTURAL ENGINEER HIRED BY THE CONTRACTOR. THE DESIGNATED ELEMENTS SHALL BE DESIGNED IN ACCORDANCE WITH THE GOVERNING BUILDING CODE, LOCAL AMENDMENTS, AND SPECIFIC REQUIREMENTS IN THE CONTRACT DOCUMENTS BY AN ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. SUBMITTALS SHALL BE SEALED BY THE RESPONSIBLE LICENSED ENGINEER. THE FOLLOWING ELEMENTS AND THEIR CONNECTIONS TO PRIMARY STRUCTURE SHALL BE DESIGNED BY A SPECIALTY STRUCTURAL ENGINEER:
      1. EXCAVATION SUPPORT
      2. TEMPORARY BRACING AND SHORING
      3. STRUCTURAL STEEL CONNECTIONS
      4. OPEN WEB STEEL JOISTS
      5. COLD-FORMED METAL FRAMING
      6. SUPPORT AND SEISMIC BRACING OF MECHANICAL, ELECTRICAL PLUMBING, AND FIRE PROTECTION (M/E/P/FP) SYSTEMS COMPONENTS
         a. DO NOT SUPPORT SYSTEMS FROM STEEL ROOF DECK
         b. POWDER ACTUATED FASTENERS INSTALLED IN CONCRETE SHALL NOT BE USED TO RESIST SEISMIC LOADS
      7. ROOFTOP EQUIPMENT SUPPORT CURBS AND PREFAB SCREEN WALLS AND THEIR CONNECTIONS TO SUPPORTING STRUCTURE
      8. STAIRS, HANDRAILS AND GUARDRAILS
      9. PRE-ENGINEERED CANOPIES AND THEIR CONNECTIONS TO SUPPORTING STRUCTURE
      10. LADDERS
      11. PANELIZED SYSTEMS
      12. ROOF SAFETY TIE-OFF SYTEMS AND THEIR ATTACHMENT TO STRUCTURE
      13. WINDOW SYSTEMS AND THEIR ATTACHMENT TO STRUCTURE
      14. PRE-ENGINEERED BUILDING
      15. AGGREGATE PIER FOUNDATION SYSTEM

d. STRUCTURAL SPECIAL INSPECTIONS
   A. SPECIAL INSPECTIONS SHALL BE IN ACCORDANCE WITH THE GOVERNING BUILDING CODE AND THE STATEMENT OF SPECIAL INSPECTIONS ON SHEET S102.

e. DESIGN CRITERIA:
   A. THE STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE ICC INTERNATIONAL BUILDING CODE, 2021 EDITION.
      a. BUILDING RISK CATEGORY II.
   B. NO PROVISIONS HAVE BEEN MADE FOR FUTURE HORIZONTAL OR VERTICAL EXPANSION.
   C. GRAVITY LOADS:
      1. PROVIDE ADDITIONAL COLLATERAL LOAD OF 5 PSF TO PRE-ENGINEERED BUILDING.
      2. UNIFORM ROOF LIVE LOADS:
         a. LIVE LOAD: 20 PSF
         b. SNOW LOAD:
            1. GROUND SNOW LOAD: 20 PSF
            2. FLAT ROOF SNOW LOAD: 20 PSF, MIN
            3. SNOW EXPOSURE FACTOR: 1.0
            4. SNOW IMPORTANCE FACTOR: 1.0
            5. SNOW THERMAL FACTOR: 1.0
            6. SLOPE FACTOR: 1.0
            7. SNOW DRIFT PLAN: SEE S108
      3. RAIN INTENSITY: 6.72 IN/HR (15 MIN); 3.14 IN/HR (60 MIN)
      4. UNIFORM FLOOR LIVE LOADS (REDUCED AS ALLOWED BY THE BUILDING CODE, UNLESS OTHERWISE NOTED):
         STORAGE 125 PSF
      5. CONCENTRATED FLOOR LIVE LOADS
         a. LOADS ARE DISTRIBUTED OVER AN AREA OF 2-1/2 SQ. FT., UNLESS NOTED OTHERWISE.
            STAIRS 300 LB (OVER 4 SQ. IN.)
      6. CONCENTRATED LATERAL LIVE LOADS
         a. HANDRAIL ASSEMBLIES:
            1. TOP RAIL: 200 LB, OR 50 LB/FT APPLIED NON-CONCURRENTLY IN ANY DIRECTION.
            2. INTERMEDIATE RAILS, BALUSTERS, FILLER PANELS, ETC.: 50 PSF APPLIED NON-CONCURRENTLY WITH THE TOP RAIL LOAD.
         b. VEHICLE BARRIER SYSTEMS: 6,000 LB. APPLIED IN ANY DIRECTION AT 18 INCHES TO 27 INCHES ABOVE THE DRIVING SURFACE.
   D. LATERAL LOADS:
      1. WIND DESIGN DATA
         a. BASIC WIND SPEED:
            1. ULTIMATE DESIGN WIND SPEED, V_{ULT}: 115 MPH
            2. NOMINAL DESIGN WIND SPEED, V_{ASD}: 89 MPH
         b. BASIC WIND SPEED (TRAINING TOWER, RC=II)
            1. ULTIMATE DESIGN WIND SPEED, V_{ULT}: 101 MPH
            2. NOMINAL DESIGN WIND SPEED, V_{ASD}: 79 MPH
         c. EXPOSURE: C
         d. ENCLOSURE CLASSIFICATION: ENCLOSED BUILDING
         e. INTERNAL PRESSURE COEFFICIENT: +/-0.18
         f. COMPONENTS AND CLADDING DESIGN WIND PRESSURE
            1. FOR ROOF WIND, SEE LOADING DIAGRAM ON SHEET S111

	EFFECTIVE WIND AREA			AT TRAINING TOWER			AT MAINT / STORAGE BLDG		
	10 SF	100 SF	500 SF	10 SF	100 SF	500 SF	10 SF	100 SF	500 SF
ZONE 4	-30.0	-26.0	-23.1	-35.0	-32.0	-30.0	-31.2	-26.9	-24.0
ZONE 5	-37.0	-28.8	-23.0	-58.0	-47.5	-37.5	-38.4	-29.9	-24.0

      1. EARTHQUAKE DESIGN DATA -ADMINISTRATION BUILDING
         a. SEISMIC IMPORTANCE FACTOR: 1.0 MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS: S_{DS}= 0.325, S_1=0.136
         b. SITE CLASSIFICATION: C
         c. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS: S_{DS}=0.282, S_{D1}=0.136
         d. SEISMIC DESIGN CATEGORY: C
         e. BASIC SEISMIC FORCE RESISTING SYSTEM: STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE.
         f. DESIGN BASE SHEAR: V=70 KIP
         g. SEISMIC RESPONSE COEFFICIENT: C_s=0.0939
         h. RESPONSE MODIFICATION FACTOR, R: 3.0
         i. DEFLECTION AMPLIFICATION FACTOR, C_D: 3.0
         j. OVERSTRENGTH FACTOR, Ω: 2.5
      2. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE
      3. EARTHQUAKE DESIGN DATA- MAINTENANCE & STORAGE BUILDING
         a. SEISMIC IMPORTANCE FACTOR: 1.0 MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS: S_S= 0.325, S_1=0.136
         b. SITE CLASSIFICATION: C
         c. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS: S_{DS}=0.282, S_{D1}=0.136
         d. SEISMIC DESIGN CATEGORY: C
         e. BASIC SEISMIC FORCE RESISTING SYSTEM:
            1. PRE-ENGINEERED BUILDING: STEEL ORDINARY MOMENT FRAMES
            2. MEZZANINE: ORDINARY REINFORCED MASONRY SHEAR WALLS
         f. DESIGN BASE SHEAR:
            1. PRE-ENGINEERED BUILDING: V=REF PRE-ENGINEERED BUILDING SUBMITTAL
            2. MEZZANINE: V=24 KIPS
         g. SEISMIC RESPONSE COEFFICIENT:
            1. PRE-ENGINEERED BUILDING: C_s=0.095
            2. MEZZANINE: C_s=0.1408
         h. RESPONSE MODIFICATION FACTOR:
            1. PRE-ENGINEERED BUILDING: R=3.5
            2. MEZZANINE: R=2.0
         i. DEFLECTION AMPLIFICATION FACTOR:
            1. PRE-ENGINEERED BUILDING: C_d=3.0
            2. MEZZANINE:C_d=1.75
         j. OVERSTRENGTH FACTOR:
            1. PRE-ENGINEERED BUILDING: Ω=3.0
            2. MEZZANINE: Ω=2.0
      4. EARTHQUAKE DESIGN DATA- TRAINING TOWER
         a. SEISMIC IMPORTANCE FACTOR: 1.0 MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS: S_S= 0.325, S_1=0.136
         b. SITE CLASSIFICATION: C
         c. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS: S_{DS}=0.282, S_{D1}=0.136
         d. SEISMIC DESIGN CATEGORY: C (USING ASCE 7 SECTION 11.6)
         e. BASIC SEISMIC FORCE RESISTING SYSTEM: ROOF: STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE; SHIPPING CONTAINERS: LIGHT-FRAMED BEARING WALLS WITH SHEAR PANELS OF ALL OTHER MATERIALS
         f. DESIGN BASE SHEAR:
         g. SEISMIC RESPONSE COEFFICIENT, C_s=0.11 AT ROOF, C_s=0.165 AT SHIPPING CONTAINERS
         h. RESPONSE MODIFICATION FACTOR, R=3 AT ROOF, R=2 AT SHIPPING CONTAINERS
         i. DEFLECTION AMPLIFICATION FACTOR, C_d=3 AT ROOF, C_d=2 AT SHIPPING CONTAINERS
         j. OVERSTRENGTH FACTOR, ΩMEGA=3 AT ROOF, ΩMEGA=2.5 AT SHIPPING CONTAINERS
      5. STAIRS
         A. UNLESS SHOWN ON THE STRUCTURAL DRAWINGS, ALL STAIRS, INTERMEDIATE LANDINGS, RAILINGS, AND CONNECTIONS BACK TO THE PRIMARY STRUCTURE SHALL BE DESIGNED BY THE CONTRACTOR'S DELEGATED SPECIALTY STRUCTURAL ENGINEER.
         B. STAIRS AND RAILINGS SHALL CONNECT DIRECTLY TO THE PRIMARY STEEL BEAMS. ALL CONNECTIONS SHALL ONLY APPLY CONCENTRIC VERTICAL LOADS TO THE STEEL BEAMS. THE CONTRACTOR'S DELEGATED SPECIALTY STRUCTURAL ENGINEER SHALL DESIGN ANY BRACES, ANGLES, OR MISCELLANEOUS METAL NECESSARY TO RESOLVE ANY ECCENTRIC, TORSIONAL, OR HORIZONTAL LOADS APPLIED TO THE BEAMS.
      6. M/E/P/FP AND SYSTEM SUPPORTS
         A. UNLESS SHOWN ON THE STRUCTURAL DRAWINGS, THE CONTRACTOR'S DELEGATED SPECIALTY STRUCTURAL ENGINEER SHALL DESIGN ALL VERTICAL AND LATERAL SUPPORTS FOR M/E/P/FP AND MISCELLANEOUS SYSTEMS.
         B. CONNECTIONS TO THE PRIMARY STRUCTURE SHALL BE TO THE STEEL BEAMS OR COMPOSITE SLAB.
            1. CONNECTIONS TO THE STEEL BEAMS SHALL ONLY APPLY CONCENTRIC VERTICAL LOADS TO THE BEAMS. THE CONTRACTOR SHALL SUPPLY ADDITIONAL MISCELLANEOUS METALS AS NECESSARY TO RESOLVE ANY ECCENTRIC, TORSIONAL, OR HORIZONTAL LOADS APPLIED TO THE BEAMS.
            2. CONNECTIONS TO STEEL BEAMS SHALL NOT IMPART ADVERSE LOCAL STRESSES WITHIN THE FLANGES OR WEBS OF THE BEAMS.
            3. CONNECTIONS TO THE COMPOSITE SLAB ON METAL DECK SHALL BE MADE THROUGH THE DECK AND DIRECTLY TO THE CONCRETE. A MAXIMUM OF 400 POUNDS MAY BE HUNG FROM THE COMPOSITE SLAB ON METAL DECK. LOADS TO THE SLAB ON DECK SHALL NOT BE CLOSER THAN 5 FEET TO ANY OTHER LOAD. IF LOADING OR SPACING REQUIREMENTS ARE NOT SATISFIED, CONNECT DIRECTLY TO THE STEEL BEAMS PER THE REQUIREMENTS ABOVE.
            4. CONNECTIONS SHALL NOT BE MADE TO STEEL ROOF DECK.

DIVISION 2 - FOUNDATIONS

1. GENERAL
   A. FOUNDATION DESIGN IS BASED UPON RECOMMENDATIONS IN THE GEOTECHNICAL REPORT AND ADDENDUM PREPARED BY INTERTEK PSI DATED JUNE 2, 2025. STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD THAT ARE DIFFERENT FROM THOSE ASSUMED IN DESIGN.
      1. PREPARE BUILDING SITE IN ACCORDANCE WITH GEOTECHNICAL AND CIVIL RECOMMENDATIONS AND SPECIFICATIONS.
      2. SITE IS UNDERLAIN WITH UNSUITABLE MATERIAL THAT SHALL BE REMEDIATED IN ACCORDANCE WITH GEOTECHNICAL REPORT
   B. OWNER'S GEOTECHNICAL REPRESENTATIVE SHALL CERTIFY THE BEARING MEDIUM.
   C. EXCAVATIONS SHALL BE KEPT FREE OF LOOSE MATERIAL AND STANDING WATER.
   D. BOTTOM OF EXTERIOR FOUNDATIONS SHALL BE A MINIMUM OF 30 INCHES BELOW THE LOWEST FINISHED ELEVATION FOR FROST PROTECTION.
2. GROUND IMPROVEMENT
   A. ALL FOOTINGS, UNLESS NOTED OTHERWISE, SHALL BEAR ON AN AGGREGATE PIER ENHANCED SOIL MATRIX WITH AN ALLOWABLE BEARING PRESSURE OF 4000 PSF.
      1. GRADE BEAMS DO NOT REQUIRE SUPPORT BY AGGREGATE PIERS. SUBGRADE BELOW GRADE BEAMS SHALL MEET THE REQUIREMENTS FOR STRUCTURAL FILL.
   B. MISCELLANEOUS SECONDARY FOOTINGS, AS NOTED ON THE STRUCTURAL DRAWINGS, SHALL BEAR ON AND BE FORMED BY CLEAN, UNDISTURBED, VIRGIN, SUB-SOIL OR COMPACTED ENGINEERED FILL WITH AN ALLOWABLE BEARING PRESSURE OF 1600 PSF.
      1. NO FOOTING SHALL BEAR ON ROCK. UNDERCUT ROCK A MINIMUM OF 2 FEET BELOW THE BOTTOM OF FOOTING AND REPLACE WITH COMPACTED ENGINEERED FILL.
   C. AGGREGATE PIERS ARE TO BE PROVIDED UNDER PERFORMANCE SPECIFICATION PROVISIONS. SEE GEOTECHNICAL REPORTS AND THE SPECIFICATIONS FOR REQUIREMENTS. (NUMBER AND SIZE OF AGGREGATE PIERS INDICATED ON PLANS, IF ANY, ARE FOR PRELIMINARY COST ESTIMATING PURPOSES ONLY.)
   D. COORDINATE PLUMBING, UTILITY TRENCHES, AND GENERAL EXCAVATION WITH FOUNDATIONS AND AGGREGATE PIERS.
      1. CASE A - INSTALLED AFTER AGGREGATE PIERS: NO PORTION OF TRENCH/EXCAVATION SHALL ENCROACH ON THE AREA WITHIN A LINE EXTENDING AT 45 DEGREES FROM THE BOTTOM OF AN ADJACENT AGGREGATE PIER SUPPORTED FOOTING. IF INSTALLED CLOSER, AFFECTED AGGREGATE PIERS MUST BE REDRILLED AND RECONSTRUCTED UNLESS OTHERWISE APPROVED BY OWNER'S GEOTECHNICAL REPRESENTATIVE.
      2. CASE B - INSTALLED BEFORE AGGREGATE PIERS: PLUMBING LINES/SLEEVES MAY BE INSTALLED THROUGH AGGREGATE PIER ZONES PRIOR TO PIER INSTALLATION. MAINTAIN SIX INCHES MINIMUM CLEARANCE. SCHEDULE 80 PIPE OR SLEEVE IS RECOMMENDED TO AVOID DAMAGE FROM PIER INSTALLATION.
   E. SETTLEMENT MONITORING PROGRAM SHALL BE DIRECTED BY THE OWNER'S GEOTECHNICAL REPRESENTATIVE.
      1. SETTLEMENT IS TO BE MONITORED AT MINIMUM OF THREE (3) POINTS TO BE IDENTIFIED BY THE ARCHITECT AND/OR OWNER'S GEOTECHNICAL REPRESENTATIVE.
      2. CONSISTENT REFERENCE POINTS ARE TO BE ESTABLISHED BY ANCHORING (DRILLING AND GROUTING) STEEL PLATES OR PINS IN FOUNDATION ELEMENTS AT REQUIRED LOCATIONS. TO FACILITATE INSTRUMENT READINGS AND CONSTRUCTION ACTIVITIES, REFERENCE POINTS MAY BE TRANSFERRED TO GROUND LEVEL CONSTRUCTION WITH ARCHITECT'S APPROVAL.
      3. A RELIABLE DATUM/BENCHMARK BEYOND THE INFLUENCE OF PROJECT FOUNDATION SETTLEMENT (MINIMUM 50 FEET DISTANT) IS TO BE ESTABLISHED AND APPROVED BY THE ARCHITECT.
      4. INITIAL READINGS ARE TO BE TAKEN AFTER FOUNDATION ELEMENTS ARE CAST BUT BEFORE RECEIVING LOAD. READINGS ARE TO BE TAKEN BI-MONTHLY THEREAFTER UNTIL THREE MONTHS AFTER SUBSTANTIAL COMPLETION OF THE STRUCTURE, UNLESS OTHERWISE ADVISED BY THE ARCHITECT. READINGS AT ALL LOCATIONS ARE TO BE TAKEN ON THE SAME DAY. INITIAL READINGS AND THOSE TAKEN MONTHLY THEREAFTER ARE TO BE TAKEN BY THE OWNER'S TESTING AGENCY AND REVIEWED AND INITIALED BY THE CONTRACTOR AND AGGREGATE PIER SUBCONTRACTOR.
      5. READINGS ARE TO BE REPORTED TO THE ARCHITECT AND OWNER'S GEOTECHNICAL REPRESENTATIVE WITHIN 3 DAYS OF READING. A CUMULATIVE DATA REPORTING FORMAT IS TO BE USED FOR EACH REFERENCE POINT.
      6. ANY ANOMALOUS READINGS ARE TO BE REVIEWED, RETAKEN, AND, IF UNRESOLVED, REPORTED TO THE ARCHITECT IMMEDIATELY.
      7. THE INFORMATION OBTAINED MAY BE USED, AT THE OWNER'S DISCRETION, IN ENFORCING THE SETTLEMENT WARRANTY REQUIRED BY THE CONTRACT DOCUMENTS.

DIVISION 3 - CONCRETE

1. REINFORCING
   A. GENERAL
      1. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60, DEFORMED BARS, UNLESS NOTED OTHERWISE.
      2. REINFORCING STEEL TO BE WELDED SHALL BE ASTM A706, DEFORMED BARS.
      3. WELDED WIRE REINFORCING SHALL BE ASTM A1064, CONTACT LAP SPLICED 12 INCHES MINIMUM.
      4. ALL REINFORCING BARS SHALL BE DETAILED, FABRICATED, SUPPORTED, AND PLACED IN ACCORDANCE WITH ACI 301 AND CRSI'S "MANUAL OF STANDARD PRACTICE", UNLESS NOTED OTHERWISE.
      5. REINFORCING, INCLUDING DOWELS, SHALL BE SECURELY TIED AND CAST WITH THE LOWER MEMBER. PLACING REINFORCING AFTER CONCRETE HAS BEEN PLACED IS NOT PERMITTED.
      6. FIELD BENDING OF REINFORCING PARTIALLY EMBEDDED IN CONCRETE IS NOT ALLOWED UNLESS SPECIFICALLY NOTED IN THE STRUCTURAL DOCUMENTS OR APPROVED BY STRUCTURAL ENGINEER.
      7. PROVIDE DOWELS FROM FOUNDATION THE SAME GRADE, SIZE, AND NUMBER AS VERTICAL WALL OR COLUMN REINFORCING, UNLESS NOTED OTHERWISE.
      8. PROVIDE CORNER BARS TO MATCH HORIZONTAL REINFORCING AT CORNERS AND INTERSECTIONS.
      9. ADHESIVE FOR REINFORCING DOWELS INTO EXISTING CONCRETE SHALL BE HILTI HIT-HY 200 V3 SYSTEM (ICC-ESR 4868), MINIMUM EMBEDMENT LENGTH SHALL BE 12 BAR DIAMETERS UNLESS NOTED OTHERWISE. ALTERNATE WILL BE ACCEPTED ONLY IF A SIGNED AND SEALED ENGINEERING ANALYSIS IS PROVIDED FOR THE ALTERNATE. REINFORCING STEEL USED WITH THE ADHESIVE SYSTEM SHALL CONFORM TO ASTM A615, UNLESS NOTED OTHERWISE. ALL REINFORCING SHALL BE CLEAN, OIL FREE, AND CLEAN OF ALL LOOSE MATERIALS. SEE POST INSTALLED ANCHOR NOTES BELOW FOR ADDITIONAL CONCRETE REQUIREMENTS.
      10. MECHANICAL COUPLERS SHALL BE UNI-AXIAL TYPE CAPABLE OF DEVELOPING 125% OF THE SPECIFIED YIELD STRENGTH OF THE BAR IN TENSION. SPLICES MADE USING MECHANICAL COUPLERS SHALL BE STAGGERED BY TWICE THE LENGTH OF THE COUPLER.
      11. ALL REINFORCING SHALL BE CONTACT LAP SPLICED OR DOWELED AS FOLLOWS:

#3 BARS	25"	#7 BARS	71"
#4 BARS	33"	#8 BARS	81"
#5 BARS	41"	#9 BARS	91"
#6 BARS	49"	#10 BARS	102"

   B. SLABS
      1. PROVIDE SLAB BOLSTERS, HIGH CHAIRS, AND #5 SUPPORT BARS AS NECESSARY TO MAINTAIN PROPER PLACEMENT OF REINFORCING.
      2. PROVIDE 2-#5 TOP X 5'-0" DIAGONALS AT CORNERS OF OPENINGS AND RE-ENTRANT CORNERS, UNLESS NOTED OTHERWISE.

2. CAST-IN-PLACE CONCRETE
   A. REINFORCED CONCRETE SHALL BE NORMAL WEIGHT AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4500 PSI.
   B. ALL CONCRETE TO HAVE THE FOLLOWING UNIT WEIGHTS (+/- 3 PCF):
      1. NORMAL WEIGHT CONCRETE: PLASTIC = 145 PCF
   C. ALL CONCRETE EXPOSED TO FREEZING AND THAWING AND DEICER CHEMICALS SHALL HAVE 6% (+1%/-1.5%) AIR ENTRAINMENT. DO NOT AIR ENTRAIN CONCRETE TO BE TROWEL FINISHED.
   D. PROVIDE CONCRETE COVER FOR REINFORCING AS FOLLOWS:

1. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
2. CONCRETE EXPOSED TO EARTH OR WEATHER	2"
3. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	
a. SLABS AND WALLS	3/4"
b. BEAMS AND COLUMNS	1-1/2"

   E. FOR CONCRETE CAST ON METAL DECK, CONCRETE THICKNESS INDICATED IS NOMINAL. CONTRACTOR SHALL ALLOW FOR THE DEFLECTION OF THE METAL DECK ASSEMBLY DUE TO THE WEIGHT OF THE CONCRETE WHEN CALCULATING CONCRETE QUANTITY AND SHALL PROVIDE A LEVEL, FINISHED SLAB ELEVATION.
   F. PROVIDE CONSTRUCTION OR CONTROL JOINTS IN SLAB-ON-GRADE AS INDICATED IN THE STRUCTURAL DRAWINGS. IF JOINT PATTERN IS NOT INDICATED, PROVIDE JOINTS AT 12 FEET (+/-) IN BOTH DIRECTIONS AND LOCATED TO CONFORM TO BAY SPACING WHEREVER POSSIBLE (AT COLUMN CENTERLINES, HALF BAYS, THIRD BAYS, ETC.).
   G. INTERFACE OF CONSTRUCTION JOINTS SHALL BE ROUGHENED TO A FULL AMPLITUDE OF 1/4". SURFACE OF CONSTRUCTION JOINTS SHALL BE CLEAN AND FREE OF LAITANCE. IMMEDIATELY BEFORE NEW CONCRETE IS PLACED, CONSTRUCTION JOINTS SHALL BE WETTED AND STANDING WATER REMOVED. SEE ARCHITECTURAL DRAWINGS FOR WATERSTOPS.
   H. PROVIDE COMPRESSIBLE FILLER AND SEALANT IN SLAB-ON-GRADE AND WALL AND COLUMN INTERFACES THAT ARE NOT DOWELED TOGETHER.
   I. NON-STRUCTURAL EMBEDMENTS (CONDUIT, PIPES, SLEEVES, ETC.)WITHIN WALLS, BEAMS, OR SLABS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER AND ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. ALL EMBEDMENTS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH ACI STANDARDS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
      1. ALUMINUM MATERIALS SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE.
      2. OVERALL OUTSIDE DIMENSION OF EMBEDMENTS SHALL NOT EXCEED 1/3 THE CONCRETE MEMBER THICKNESS UP TO 2 INCH MAXIMUM.
         a. FOR CONCRETE SLABS ON METAL DECK THE MEMBER THICKNESS SHALL BE THE CONTINUOUS SLAB THICKNESS ABOVE THE DECK.
      3. EMBEDMENTS SHALL BE SPACED A MINIMUM OF 6 INCHES ON CENTER.
      4. EMBEDMENTS SHALL NOT ALTER OR DISPLACE REINFORCING.
      5. EMBEDMENTS WITHIN COLUMNS SHALL NOT DISPLACE MORE THAN 4 PERCENT OF THE AREA OF THE COLUMN CROSS SECTION.
   K. PROVIDE 4" HIGH CONCRETE HOUSEKEEPING PADS UNDER EQUIPMENT, UNLESS NOTED OTHERWISE. PADS SHALL EXTEND BEYOND EQUIPMENT 6" NOMINAL ON ALL SIDES. APPLY BONDING AGENT TO EXISTING CONCRETE SLAB PRIOR TO PLACING HOUSEKEEPING PAD. SEE DOCUMENTS FROM OTHER DISCIPLIN

SPECIAL INSPECTION TABLES

STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS

GENERAL
The Owner shall engage and employ a qualified special inspection agency or agencies to conduct special inspections of structural work as required by chapter 17 of the 2021 International Building Code and as delineated below. Agencies that are considered qualified and acceptable to act as special inspectors will be those acceptable to the building official of the jurisdiction that grants the building permit and the owner.

SPECIAL INSPECTION REPORT REQUIREMENTS
Special Inspectors shall keep records of inspections. The special inspector shall furnish inspection reports to the Building Official, Owner, Architect, Structural Engineer, and Contractor. Reports shall indicate that the structural work inspected was done in conformance to approved Contract Documents. Discrepancies shall be brought to the immediate attention of the Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official, Owner, Architect, and Structural Engineer prior to the completion of that phase of work. A final report of inspections documenting required special inspections of structural work and correction of any discrepancies noted in the inspections shall be submitted at a point in time agreed upon by the Owner and the Building Official prior to the start of work.

REQUIRED SPECIAL INSPECTIONS
The following types of structural work require special inspections. Refer to individual Specification Sections for specific testing and inspecting requirements. Continuous inspection is the full-time observation of work by a qualified special inspector who is present in the area where the work is being performed. Periodic special inspection is the part-time or intermittent observation of work by a qualified special inspector who is present in the area where the work has been or is being performed and at the completion of the work.

CONCRETE CONSTRUCTION

SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Inspection of steel reinforcement, including size, quantity and placement.		X	
2. Reinforcing bar welding:			
a. Verify weldability of reinforcing bars other than ASTM A706.		X	
b. Inspect single-pass fillet welds, maximum 5/16"; and		X	
c. Inspect all other welds.	X		
3. Inspection of anchor rods, headed bolts, headed studs, shear stud shear reinforcing and other embedded items prior to and during placement of concrete.	X		
4. Inspection of anchors installed in hardened concrete.			See "Post Installed Anchors" table
5. Verification of use of required design mixture.		X	
6. Testing of slump, air content, and temperature of concrete at the time fresh concrete is sampled to fabricate specimens for strength tests.	X		Frequency of test per specifications.
7. Inspection of concrete placement, including conveying and depositing.	X		
8. Inspection of curing procedures and maintenance of curing temperatures.		X	
9. Inspection of prestressed concrete:			
a. Application of prestressing forces.	X		
b. Grouting of bonded prestressing tendons in the seismic force resisting system.	X		
10. Erection of precast concrete members.		X	
11. Verification of concrete strength before removal of shores and forms from beams and slabs.		X	
12. Inspect formwork for shape, location and dimensions of the concrete member being formed.		X	
13. Verification that approved shop drawings are being used on site.		X	

SOILS

SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.		X	
2. Verify excavations are extended to proper depth and have reached proper material.		X	
3. Perform classification and testing of compacted fill materials.		X	
4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	X		
5. Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly.		X	

MASONRY CONSTRUCTION LEVEL B QUALITY ASSURANCE

SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified.		X	
2. Verification of compressive strength of masonry prior to construction and for every 5,000 square feet during construction.		X	
3. Verification of proportions of materials in premixed or preblended mortar and grout as delivered to the site.		X	
4. As masonry construction begins, verify that the following are in compliance:			
a. Proportions of site-prepared mortar and grout.		X	
b. Placement of masonry units and construction of mortar joints.		X	
c. Location of reinforcement and control joints.		X	
5. Prior to grouting, verify that the following are in compliance:			
a. Grout space.	X		
b. Grade, type and size of reinforcement and anchor bolts.		X	
c. Placement of reinforcement.		X	
d. Proportions of site-prepared grout.		X	
e. Construction of mortar joints.		X	
6. Verify during construction:			
a. Size and location of structural elements.		X	
b. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction.	X		
c. Welding of reinforcement (if permitted).	X		
d. Preparation, construction and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F)		X	
e. Placement of grout.	X		
7. Preparation of any required grout specimens and/or prisms shall be observed.	X		

POST INSTALLED ANCHORS TO CONCRETE AND MASONRY

SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Use of proper anchor system and manufacturer.		X	
2. Review of installer's qualifications including certification by anchor manufacturer.		X	* See Note 1
3. Anchor installation process as noted in general notes.			* See Note 2
4. Verification of supporting material's condition.		X	
5. Proof testing as outlined in general notes.		X	
6. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads.	X		
7. Mechanical anchors and adhesive anchors not defined in Note 6.		X	

* Remark Notes:
1. Inspector shall be familiar with anchor manufacturer's written installation procedure and ESR report.
2. Refer to manufacturer's ESR for type of inspection periodic vs. continuous.

WELDED STEEL CONSTRUCTION

SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	PERFORM FOR EACH STEEL ELEMENT	OBSERVE ON A RANDOM BASIS	
1. Inspection tasks prior to welding:			
a. Welding procedure specifications (WPS) available.	X		
b. Manufacturer certifications for welding consumables available.	X		
c. Material identification (type/grade).		X	
d. Welder identification system.		X	
e. Fit-up of groove welds (including joint geometry): • Joint preparation • Dimensions (alignment, root opening, root face, bevel) • Cleanliness (condition of steel surfaces) • Tacking (tack weld quality and location) • Backing type and fit (if applicable)		X	
f. Configuration and finish of access holes.		X	
g. Fit-up of fillet welds: • Dimensions (alignment, gaps at root) • Cleanliness (condition of steel surfaces) • Tacking (tack weld quality and location)		X	
h. Check welding equipment.		X	
2. Inspection tasks during welding:			
a. Use of qualified welders.		X	
b. Control and handling of welding consumables: • Packaging • Exposure control		X	
c. No welding over cracked tack welds.		X	
d. Environmental conditions: • Wind speed within limits • Precipitation and temperature		X	
e. WPS followed: • Settings on welding equipment • Travel speed • Selected welding materials • Shielding gas type/flow rate • Preheat applied • Interpass temperature maintained (min/max) • Proper position (F, V, H, OH)		X	
f. Welding techniques: • Interpass and final cleaning • Each pass within profile limitations • Each pass meets quality requirements		X	
3. Inspection tasks after welding:			
a. Welds cleaned.		X	
b. Size, length and location of welds.	X		
c. Welds meet visual acceptance criteria: • Crack prohibition • Weld/base-metal fusion • Crater cross section • Weld profiles • Weld size • Undercut • Porosity	X		
d. Arc strikes.	X		
e. Visually inspect the web k-area for cracks within 3" of doubler plates, continuity plates and stiffeners welded in the k-area.	X		
f. Placement of reinforcing or contouring fillet welds (if required).	X		
g. Backing removed and weld tabs removed (if required).	X		
h. Repair activities.	X		
i. Document acceptance or rejection of welded joint or member.	X		

BOLTED STEEL CONSTRUCTION

SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	PERFORM FOR EACH STEEL ELEMENT	OBSERVE ON A RANDOM BASIS	
1. Inspection tasks prior to bolting:			
a. Manufacturer's certifications available for fastener material.	X		
b. Fasteners marked in accordance with ASTM requirements.		X	
c. Proper fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane).		X	
d. Proper bolting procedure selected for joint detail.		X	
e. Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements.		X	
f. Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used.		X	
g. Proper storage provided for bolts, nuts, washers and other fastener components.		X	
2. Inspection tasks during bolting:			
a. Fastener assemblies, of suitable condition, placed in all holes and washers (if required) are positioned as required.		X	
b. Joint brought to the snug-tight condition prior to the pretensioning operation.		X	
c. Fastener component not turned by the wrench prevented from rotating.		X	
d. Fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges.		X	
3. Inspection tasks after bolting:			
a. Document acceptance or rejection of bolted connections.	X		

STEEL DECKING CONSTRUCTION

SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	PERFORM FOR EACH STEEL ELEMENT	OBSERVE ON A RANDOM BASIS	
1. Inspection or execution tasks prior to deck placement:			
a. Verify compliance of materials (deck and all deck accessories) with construction documents, including profiles, material properties, and base metal thickness.		X	
b. Document acceptance or rejection of deck & deck accessories.		X	
c. Confirm approved shop drawings are being used in field.	X		
2. Inspection or execution tasks after deck placement:			
a. Verify compliance of deck and all deck accessories installation with construction documents.		X	
b. Verify deck materials are represented by the mill certifications that comply with the construction documents.		X	
c. Document acceptance or rejection of installation of deck and deck accessories.		X	
3. Inspection or execution tasks prior to welding:			
a. Welding procedure specifications (WPS) available.		X	
b. Manufacturer certifications for welding consumables available.		X	
c. Material identification (type/grade).		X	
d. Check welding equipment.		X	
4. Inspection or execution tasks during welding:			
a. Use of qualified welders.		X	
b. Control and handling of welding consumables.		X	
c. Environmental conditions (wind speed, moisture, temperature)		X	
d. WPS followed.		X	
5. Inspection or execution tasks after welding:			
a. Verify size and location of welds, including support, sidelap, and perimeter welds.		X	
b. Welds meet visual acceptance criteria.		X	
c. Verify repair activities.		X	
d. Document acceptance or rejection of welds.		X	
6. Inspection or execution tasks prior to mechanical fastening:			
a. Manufacturer installation instructions available for mechanical fasteners.		X	
b. Proper tools available for fastener installation.		X	
c. Proper storage for mechanical fasteners.		X	
7. Inspection or execution tasks during mechanical fastening:			
a. Fasteners are positioned as required.		X	
b. Fasteners are installed in accordance with manufacturer's instructions.		X	
8. Inspection or execution tasks after mechanical fastening:			
a. Check spacing, type, and installation of support fasteners.		X	
b. Check spacing, type, and installation of sidelap fasteners.		X	
c. Check spacing, type, and installation of perimeter fasteners.		X	
d. Verify repair activities.		X	
e. Document acceptance or rejection of mechanical fasteners.		X	

OPEN-WEB STEEL JOIST & JOIST GIRDERS

SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Installation of open-web steel joists and joist girders.			
a. End connections - welding or bolted.	-	X	
b. Bridging - horizontal or diagonal.	-		
1. Standard bridging.	-	X	
2. Bridging that differs from the SJI specifications listed in Section 2207.1.		X	

STRUCTURAL LIGHT GAGE STUD CONSTRUCTION

SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Material verification of studs and weld electrodes.		X	
2. Inspection of light gage welds to structure.		X	
3. Inspection of screw attachment, bolting, anchoring and other fastening of components.		X	
4. Inspection of screw attachment, bolting, anchoring and other fastening of components within wind and seismic force resisting systems, including shear walls, braces, diaphragms, collectors (drag struts) and hold-downs.		X	
5. Confirm material size and gage.	X		
6. Confirm approved shop drawings are being used in field.	X		

LIST OF ABBREVIATIONS

ABOVE FINISH FLOOR	AFF
ADDITIONAL	ADDNL
ALTERNATE	ALT
ANCHOR, ANCHORAGE	ANCH
ANCHOR ROD	AR
ANTHONY POWER BEAM	APB
APPROXIMATE	APPROX
ARCHITECT	ARCH
ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	AESS
BACK TO BACK	BB
BALANCE	BAL
BASEMENT	BSMT
BEAM	BM
BEARING	BRG
BENT	BT
BETWEEN	BTWN
BLOCKING	BLKG
BOTTOM	BOT
BOTTOM OF	B/
BOTTOM OF CONCRETE	BC
BOTTOM OF METAL DECK	BMD
BOTTOM OF PIER	BP
BOTTOM OF WALL	BW
BRICKLEDGE	BL
BRIDGING	BRDG
BUILDING	BLDG
CAMBER	c OR C
CANTILEVER	CANT
CAST IN PLACE	CIP
CENTER	CTR
CENTER TO CENTER	CC
CENTERLINE	CL
CLEAR	CLR
COLD-FORMED	CF
COLD-FORMED METAL FRAMING	CFMF
COLD-FORMED STEEL	CFS
COLUMN, COLUMNS	COL
COLUMN STRIP	CS
CONCRETE	CONC
CONCRETE MASONRY UNIT	CMU
CONNECT	CONN
CONNECTION	CONX
CONSTRUCTION	CONST
CONSTRUCTION JOINT OR CONTROL JOINT	CJ
CONTINUE, CONTINUOUS	CONT
CONTRACTOR	CONTR
COORDINATE	COORD
CURTAIN WALL	CW
DEAD LOAD	DL
DEGREE	DEG
DETAIL	DTL
DIAGONAL	DIAG
DIAMETER	DIA
DIAMETER OF REBAR	DB
DOWEL	DWL
DOWN	DN
DRAWING	DWG
EACH	EA
EACH END	EE
EACH FACE	EF
EACH SIDE	ES
EACH WAY	EW
ECCENTRICALLY BRACED FRAME	EBF
EDGE NAILING	EN
EDGE OF SLAB	EOS
ELECTRICAL	ELEC
ELEVATION	EL
ELEVATOR	ELEV
EMBEDMENT	EMBED, EMB
ENGINEER	ENG
ENGINEER OF RECORD	EOR
EQUAL	EQ
EXISTING	EXIST OR (E)
EXPANSION	EXP
EXPANSION JOINT	EJ
EXTERIOR	EXT
FABRICATOR	FAB
FACE OF BRICK	FOB
FAR FACE	FF
FAR SIDE	FS
FIELD VERIFY	FV
FINISH, FINISHED	FIN
FINISH FLOOR ELEVATION	FFE
FIRE TREATED	F.T.
FLANGE	FLG
FLOOR	FLR
FLOOR DRAIN	FD
FOOTING	FTG
FOUNDATION	FDN
FUTURE	FUT OR (F)
GALVANIZED	GALV
GAUGE	ga, GA
GENERAL	GEN
GIRDER TRUSS	GT
GLUE-LAMINATED BEAM	GLB
GRADE	GR
GRADE BEAM	GB
HANGER	HGR
HEADED	HD
HEADER	HDR
HEIGHT	HT
HIGH POINT	HP
HOLLOW CLAY TILE	HCT
HOOK	HK
HORIZONTAL	HOR
INFORMATION	INFO
INSIDE DIAMETER	ID
INSIDE FACE	I.F.
INTERIOR	INT
INTERMEDIATE MOMENT FRAME	IMF
JOINT	JT
JOIST	JST
JOIST SUBSTITUTE	JS
KIP, KIPS	k OR K
KNEE BRACE	KB
LAMINATED STRAND LUMBER	LSL
LAMINATED VENEER LUMBER	LVL
LIGHT	LT
LIVE LOAD	LL
LOCATION	LOC
LONG	LG
LONG LEG HORIZONTAL	LLH
LONG LEG OUT	LLO
LONG LEG VERTICAL	LLV
LONG SIDE VERTICAL	LSV
LONG SIDE HORIZONTAL OR LONG SLOTTED HOLE(S)	LSH
LOW POINT	LP
MANUFACTURER	MFR
MASONRY	MAS
MAXIMUM	MAX
MECHANICAL	MECH
MEZZANINE	MEZZ
MIDDLE	MID
MIDDLE STRIP	MS
MINIMUM	MIN
MISCELLANEOUS	MISC
NEAR FACE	NF
NEAR SIDE	NS
NEW	(N)
NOT IN CONTRACT	NIC
NOT TO SCALE	NTS
ON CENTER	oc
OPENING	OPNG
OPEN WEB TRUSS	OWT
OPPOSITE	OPP
OPPOSITE HAND	OPPHD
ORDINARY CONCENTRICALLY BRACED FRAME	OCBF
ORDINARY MOMENT FRAME	OMF
OUT TO OUT	OO
OUT OF PLANE	OOP
OUTSIDE DIAMETER	OD
OUTSIDE FACE	O.F.
OVERSIZED HOLE(S)	OVH
PARALLEL STRANDED LUMBER	PSL
PIER CAP, PILE CAP	PC
PILASTER	PIL
PLACES	PLCS
PLATE	PL
PLUMBING	PLMB
PLYWOOD	PLYWD
POINT	PT
POST-TENSIONED	P-T
POUND PER SQUARE FOOT	PSF
POUND PER SQUARE INCH	PSI
POWDER ACTUATED FASTENER	PAF
PRECAST	P/C
PRE-ENGINEERED METAL BUILDING	PEMB
PRE-ENGINEERED WOOD TRUSS	PWT
PREFABRICATED	PREFAB
PRESSURE TREATED LUMBER	PTL
QUANTITY	QTY
RADIUS	RAD
REFER, REFERENCE	REF
REINFORCING OR REINFORCEMENT	REINF
REQUIRED	REQD
ROOF TOP UNIT	RTU
SCHEDULE	SCHED
SECTION	SECT
SEISMIC LOAD RESISTING SYSTEM	SLRS
SHEAR WALL	SW
SHEATHING	SHTHG
SHEET	SHT
SHEET METAL	SHTMTL
SHORT LEG OUT	SLO
SHORT SIDE HORIZONTAL OR SHORT SLOTTED HOLE(S)	SSH
SIMILAR	SIM
SLAB ON GROUND	SOG
SLIP CRITICAL	SC
SPACE	SPA
SPECIAL	SP
SPECIAL CONCENTRICALLY BRACED FRAME	SCBF
SPECIAL MOMENT FRAME	SMF
SPECIFICATIONS	SPEC
SQUARE	SQ
STAINLESS STEEL	SS
STANDARD	STD
STEEL	STL
STIFFENER	STIFF
STRUCTURAL	STRUC
STRUCTURAL ENGINEER OF RECORD	SEOR
SYMMETRICAL	SYM
THICK, THICKNESS	THK OR T
THREAD, THREADED	THD
TIE BEAM	TB
TO BE REMOVED	TBR
TOP & BOTTOM	T&B
TOP OF	T/
TOP OF CONCRETE	TC
TOP OF FOOTING	TF
TOP OF MASONRY	TM
TOP OF PIER, PILASTER	TP
TOP OF PIER CAP, PILE CAP	TPC
TOP OF STEEL	TS
TOP OF WALL	TW
TREAD	T OR TR
TYPICAL	TYP
UNLESS NOTED OTHERWISE	UNO
VERTICAL BRACE	VB
VERTICAL, VERTICALLY	VT OR VERT
VERIFY IN FIELD	VIF
WELDED WIRE REINFORCING	WWR
WINDOW	WDW
WITH	w/
WOOD	WD
WORKING POINT	WP
WATERSTOP, WATERSEAL	WS
X-BRACING	X-BR

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Proposed:
CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE
ST. PETERS, MO 63376
380/340 ECOLOGY DRIVE

No.	Revision	Date

SPECIAL INSPECTIONS

Project No. 2400235

Sheet No. S002

Date 09/16/2025

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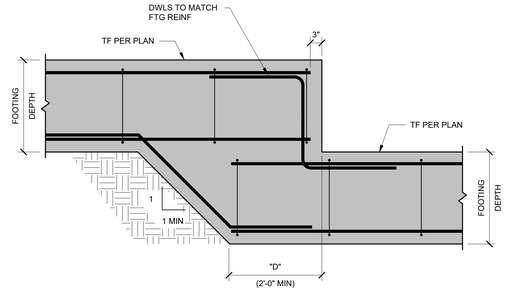
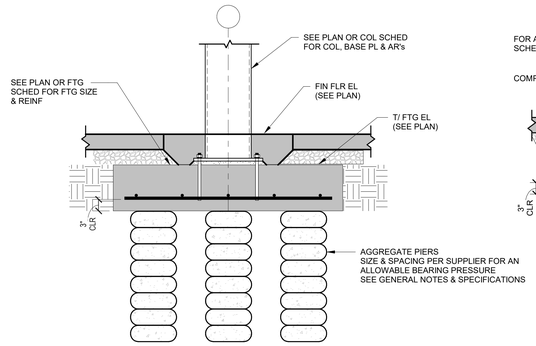
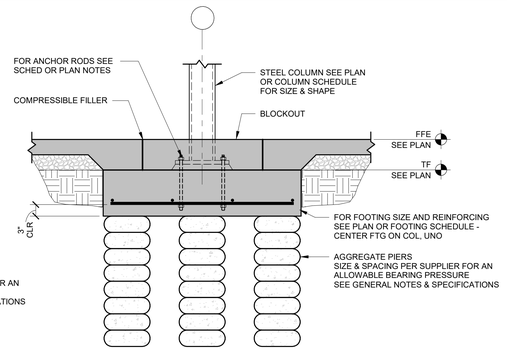


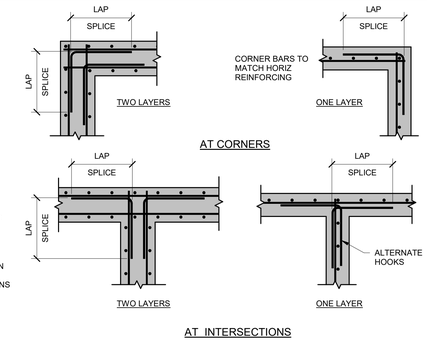
4 S003 TYPICAL FOOTING STEP DETAIL
NTS



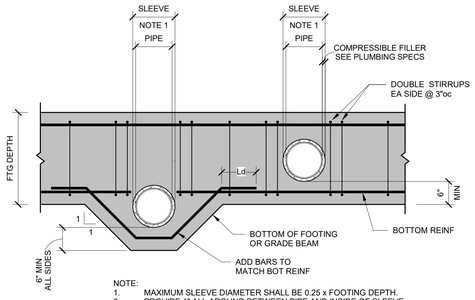
3 S003 TYPICAL FOOTING OVEREXCAVATION DETAIL
NTS



2 S003 TYPICAL INTERIOR STEEL COLUMN FOOTING DETAIL
NTS

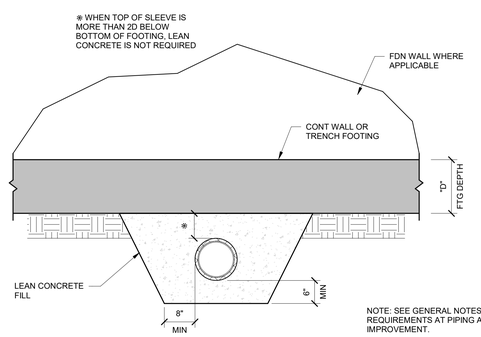


1 S003 TYPICAL CONCRETE WALL / GRADE BEAM REINFORCING DETAILS AT INTERSECTIONS AND CORNERS
NTS



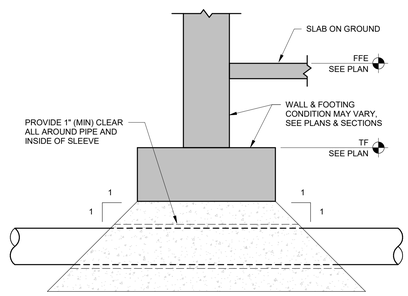
NOTE:
1. MAXIMUM SLEEVE DIAMETER SHALL BE 0.25 x FOOTING DEPTH.
2. PROVIDE 1" ALL AROUND BETWEEN PIPE AND INSIDE OF SLEEVE.

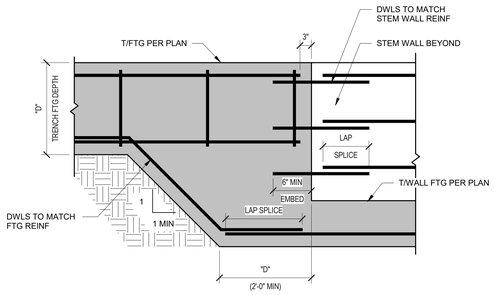
6 S003 TYPICAL PIPE SLEEVE THRU FOUNDATION DETAIL
NTS



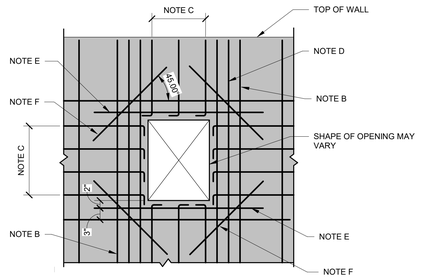
NOTE: SEE GENERAL NOTES FOR REQUIREMENTS AT PIPING AROUND GROUND IMPROVEMENT.

5 S003 TYPICAL DETAIL WHERE PLUMBING PASSES BELOW CONTINUOUS WALL OR TRENCH FOOTING
NTS



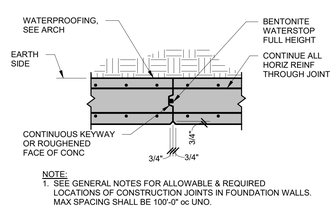


10 S003 TYPICAL TRENCH TO STEM WALL FOOTING TRANSITION
NTS



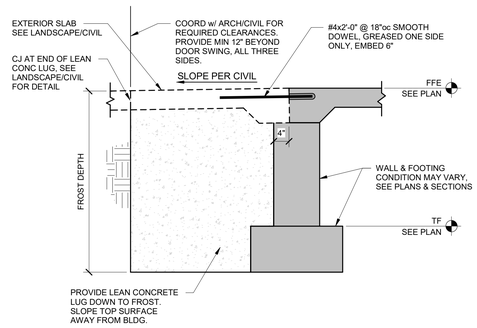
NOTES:
A. THIS DETAIL APPLIES WHERE THE WALL OPENING IS 1'-0" OR GREATER BUT LESS THAN 4'-0".
B. PLACE HALF OF THE VERT REINF INTERRUPTED BY AN OPENING ON EACH SIDE OF THE OPENING.
C. PLACE ADDITIONAL REINF IN THE AREA OF THE OPENING OF THE SAME SIZE AND AT THE SAME SPACING AS THE INTERRUPTED REINF
D. IF EXTERIOR VERTICAL REINF IS NOT OTHERWISE PROVIDED PLACE AN ADDITIONAL #5 VERT, FULL HEIGHT OF WALL, AT THE EXTERIOR FACE.
E. PLACE (1) #5 HORIZ IN EA FACE, EXTEND 2'-0" BEYOND OPENING.
F. PLACE (1) #5 x 4'-0" DIAGONAL, EACH FACE AT ALL FOUR CORNERS.

9 S003 TYPICAL ADDITIONAL REINFORCEMENT DETAIL AT OPENINGS IN CONCRETE WALL
NTS

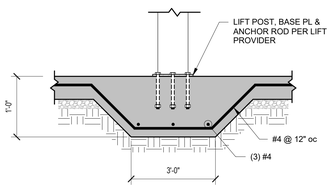


NOTE:
1. SEE GENERAL NOTES FOR ALLOWABLE & REQUIRED LOCATIONS OF CONSTRUCTION JOINTS IN FOUNDATION WALLS. MAX SPACING SHALL BE 100'-0" oc UNO.

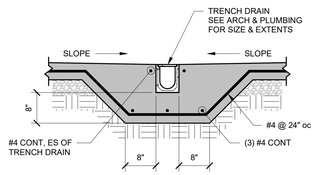
8 S003 TYPICAL FDN WALL CONSTRUCTION JOINT DETAIL
NTS



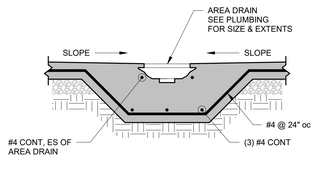
7 S003 TYPICAL THRESHOLD DETAIL
NTS



13 S003 TYPICAL THICKENED SLAB AT LIFT POST
3/4" = 1'-0"



12 S003 TYPICAL TRENCH DRAIN DETAIL
3/4" = 1'-0"



11 S003 TYPICAL AREA DRAIN DETAIL
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No.	Date	Revision

TYPICAL DETAILS

Project No.
2400235

Sheet No.
S003

Date
09/16/2025

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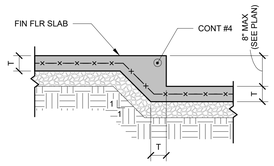
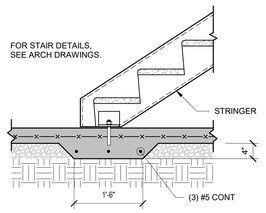
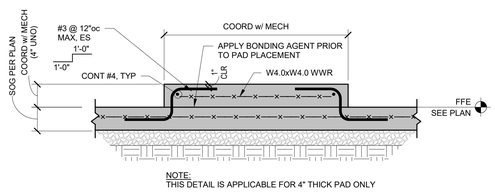


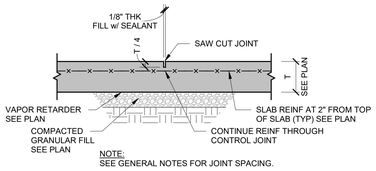
5 S004 TYPICAL DEPRESSION OR STEP IN SLAB ON GROUND DETAIL
NTS



4 S004 TYPICAL STAIR STRINGER AT SLAB ON GRADE DETAIL
NTS



3 S004 TYPICAL HOUSEKEEPING PAD
NTS



2 S004 TYPICAL SLAB ON GROUND CONTROL JOINT DETAIL
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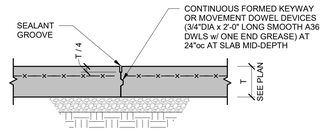
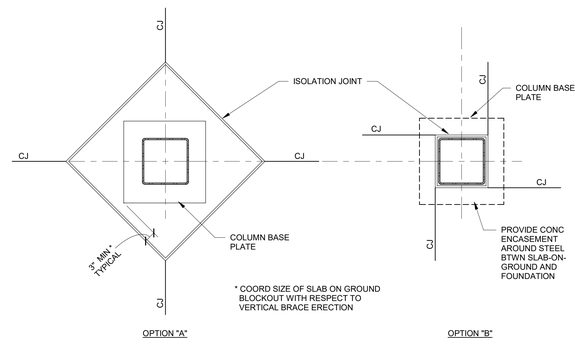


1 S004 TYPICAL SLAB ON GROUND CONSTRUCTION JOINT DETAIL
NTS



6 S004 TYPICAL CONTROL JOINT PLAN AT HSS STEEL COLUMN DETAIL
NTS

SCALE: 1" = 1'-0" 1" 0 6" 1' 2'
SCALE: 1 1/2" = 1'-0" 1 1/2" 0 3" 6" 3'
SCALE: 3/4" = 1'-0" 3/4" 0 1' 2'
SCALE: 1/2" = 1'-0" 1/2" 0 1' 2'
SCALE: 3/8" = 1'-0" 3/8" 0 2" 4'
SCALE: 1/4" = 1'-0" 1/4" 0 2' 4'
SCALE: 1/8" = 1'-0" 1/8" 0 4' 8'
SCALE: 3/32" = 1'-0" 3/32" 0 8' 16'
SCALE: 1/16" = 1'-0" 1/16" 0 8' 16'

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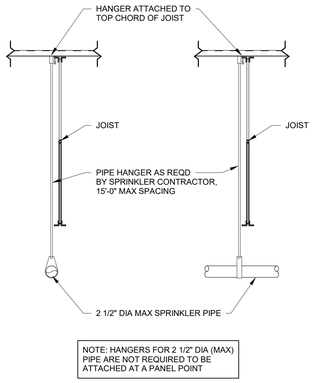
TYPICAL DETAILS

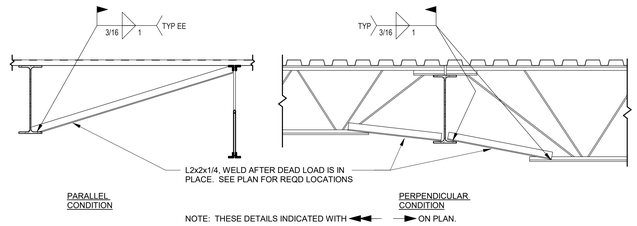
Project No.
2400235

Sheet No.
S004

Date
09/16/2025



3 S005 TYPICAL HANGER DETAIL FOR 2 1/2" MAX DIA SPRINKLER PIPE
NTS



2 S005 TYPICAL BEAM BOTTOM FLANGE BRACE ANGLE DETAIL
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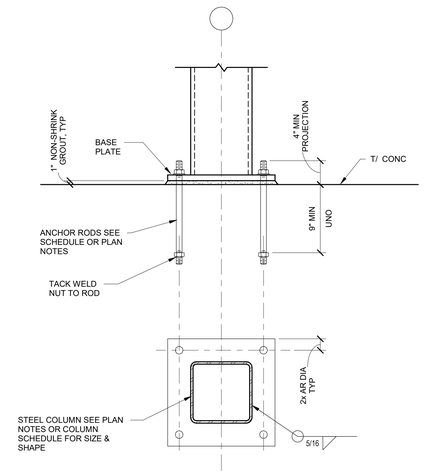

1 S005 TYPICAL COLUMN BASE PLATE DETAIL
NTS

PROVIDE BOLTED JST AND STABILIZER PL's PER OSHA REGULATIONS (MIN PL THICKNESS OF 3/8")

6 S005 TYPICAL JOIST TO COLUMN CONNECTION
N.T.S.

JOISTS NOT ON COLUMN CL

JOISTS ON COLUMN CL

SECTION "A"

PROVIDE BOLTED JST AND STABILIZER PL's PER OSHA REGULATIONS (MIN PL THICKNESS OF 3/8")

5 S005 TYPICAL CONNECTION DETAIL FOR ROOF JOISTS AT COLUMNS
N.T.S.

NOTE:
1. L2x2 STRUT REQD WHERE THE SUM OF CONCENTRATED LOADS WITHIN A CHORD PANEL EXCEEDS 100 POUNDS AND/OR THE LOAD IS NOT APPLIED CONCENTRATE TO THE CHORD.

4 S005 TYPICAL JOIST REINFORCING AT CONCENTRATED LOADS
NTS

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Project No.
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Sheet No.
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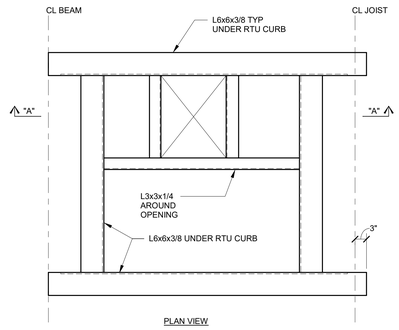
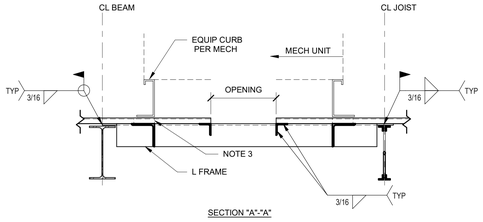


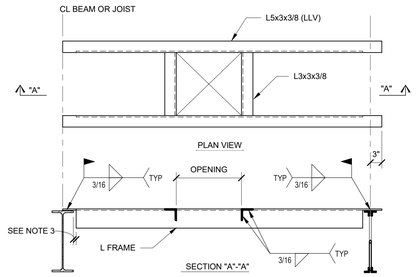
PLAN VIEW



SECTION "A"-"A"

1. COORDINATE SIZE & LOCATION OF OPENINGS w/ ARCHITECTURAL & MECHANICAL DRAWINGS.
2. PROVIDE FRAME FOR ALL OPENINGS OVER 12".
3. PROVIDE BLOCKING BETWEEN DECK RIBS.
4. LOCATE CURB OVER VERTICAL LEG OF L6x6.

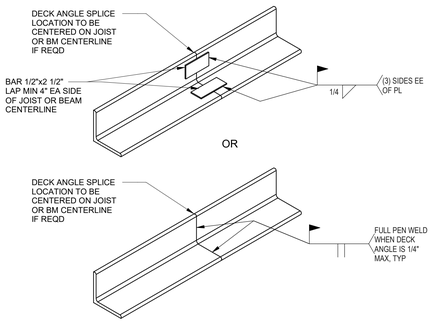
3 S006 TYPICAL ROOF TOP UNIT CURB SUPPORT DETAIL
NTS



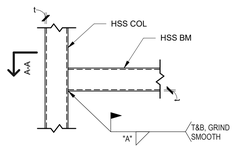
SECTION "A"-"A"

1. COORDINATE SIZE AND LOCATION OF OPENINGS WITH ALL OTHER DISCIPLINES AND DRAWINGS.
2. PROVIDE L FRAME FOR ALL OPENINGS OVER 12".
3. MAXIMUM DISTANCE BETWEEN, EDGE OF SUPPORT AND COPED ANGLE LEG SHALL BE 3/8".

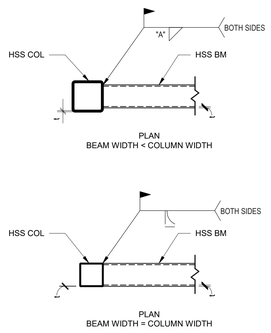
2 S006 TYPICAL ROOF OPENING DETAIL
NTS



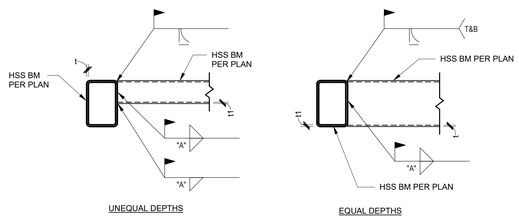
1 S006 TYPICAL DECK ANGLE SPLICE DETAIL
NTS



NOTE:
"A" WELD INDICATES SMALLER
TUBE THICKNESS "t"

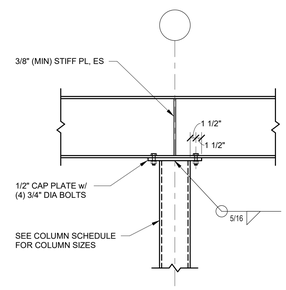


7 S006 TYPICAL HSS BEAM TO HSS COLUMN CONNECTION DETAIL - AESS
3/4" = 1'-0"

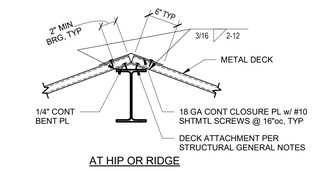


NOTE:
"A" WELD INDICATES SMALLER TUBE THICKNESS "t" OR "t1"

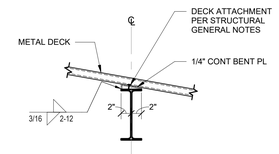
6 S006 TYPICAL HSS BEAM TO HSS BEAM CONNECTION DETAIL - AESS
3/4" = 1'-0"



5 S006 TYPICAL CONTINUOUS BEAM CONNECTION DETAIL
NTS

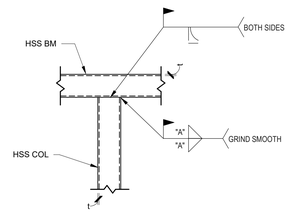


AT HIP OR RIDGE



DECK PERPENDICULAR

4 S006 METAL DECK ATTACHMENTS
AT SLOPE OR ELEVATION CHANGE
NTS



NOTE:
"A" WELD INDICATES SMALLER
TUBE THICKNESS "t"

8 S006 TYPICAL CONTINUOUS HSS BEAM T0 HSS COLUMN CONNECTION DETAIL - AESS
3/4" = 1'-0"

SCALE: 3" = 1'-0" 1" 6" 3" 0
SCALE: 1 1/2" = 1'-0" 2" 1' 6" 3" 0
SCALE: 1" = 1'-0" 2" 1' 6" 3" 0
SCALE: 3/4" = 1'-0" 3" 2" 1" 0
SCALE: 1/2" = 1'-0" 4" 2" 1' 0
SCALE: 3/8" = 1'-0" 6" 4" 2" 0
SCALE: 1/4" = 1'-0" 8" 4" 2" 0
SCALE: 1/8" = 1'-0" 15" 8" 4" 0
SCALE: 3/32" = 1'-0" 24" 16" 8" 0
SCALE: 1/16" = 1'-0" 32" 16" 8" 0

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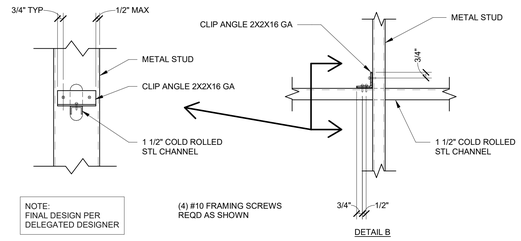
TYPICAL DETAILS

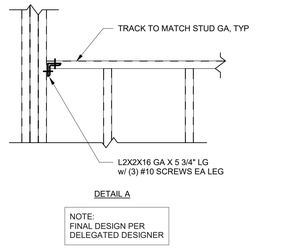
Project No.
2400235

Sheet No.
S006

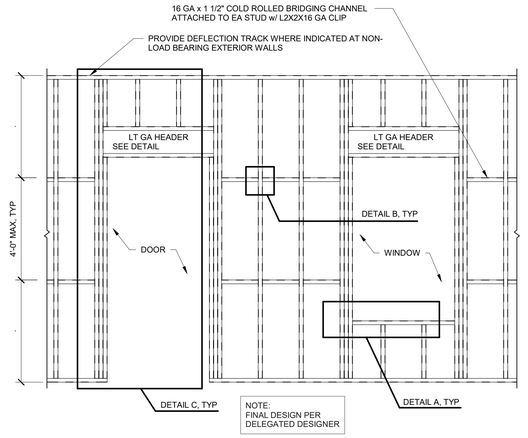
Date
09/16/2025



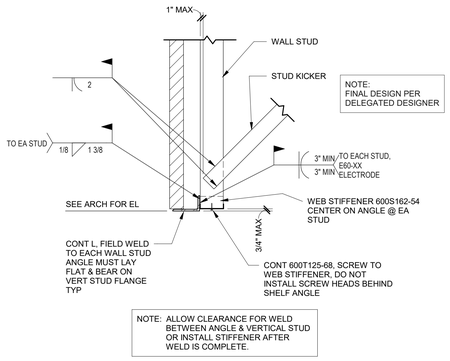
3 S007 TYPICAL EXTERIOR METAL WALL STUD DETAILS - B
NTS



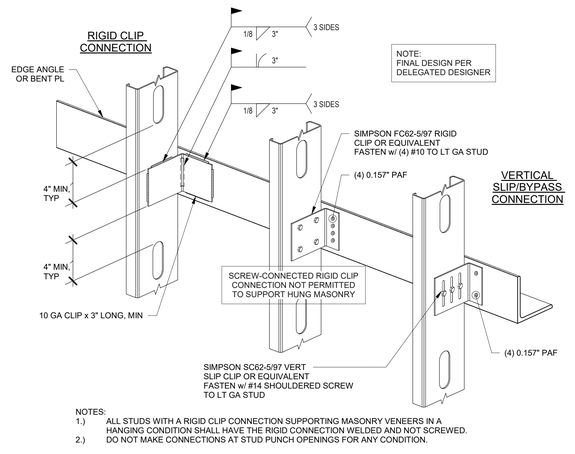
2 S007 TYPICAL EXTERIOR METAL WALL STUD DETAILS - A
NTS



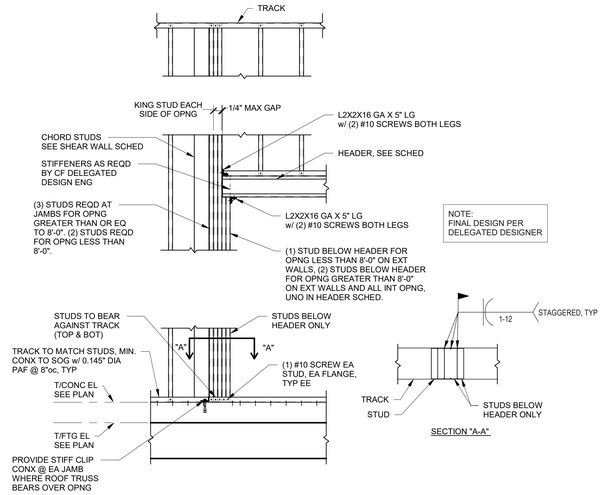
1 S007 TYPICAL EXTERIOR METAL WALL STUD DETAILS
NTS



6 S007 TYPICAL SHELF ANGLE AND STUD KICKER ATTACHMENT DETAIL
NTS

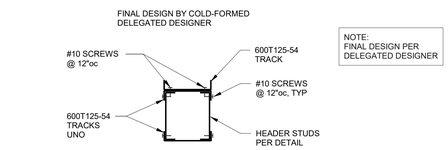


5 S007 TYPICAL LIGHT GAUGE STUD CLIP ATTACHMENT DETAIL
NTS



4 S007 TYPICAL EXTERIOR METAL WALL STUD DETAILS - C
NTS

LIGHT GAUGE HEADER SCHEDULE			
MARK	HEADER STUDS (UNPUNCHED)	JAMB STUDS	REMARKS
LGH-1	(2) 800S162-54	PER 4/S1.6	0'-0" TO 4'-0"
LGH-2	(2) 1000S162-54	PER 4/S1.6	4'-0" TO 8'-0"
LGH-3	(2) 1200S162-54	PER 4/S1.6	8'-0" TO 12'-0"



7 S007 TYPICAL LIGHT GAUGE HEADER SCHEDULE
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Proposed:
CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE
380/340 ECOLOGY DRIVE ST. PETERS, MO 63376

No.	Date	Revision
1	2025.09.11	Revised per City Comments

TYPICAL DETAILS

Project No. 2400235
Sheet No. S007
Date 09/16/2025

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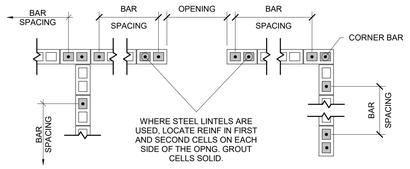
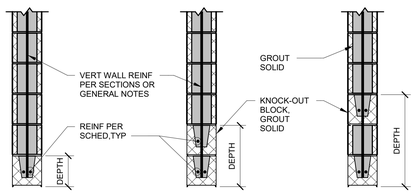


AT INTERSECTION AT CORNER END

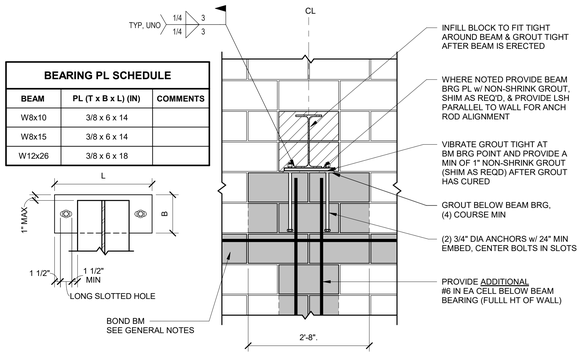
NOTES:
1. SEE PLAN AND DETAILS FOR REINFORCEMENT.
2. SEE TYPICAL CMU CONTROL JOINT DETAIL FOR REINFORCEMENT AT CONTROL JOINTS.

3 S008 TYPICAL CMU WALL REINFORCEMENT PLAN
NTS



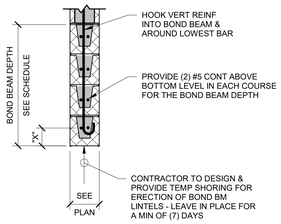
TYPE	SPAN	DEPTH	TOP REINF	BOT REINF	COMMENTS
"A"	1'-4" TO 5'-0"	8"	-	(2) #5	-
"B"	5'-1" TO 10'-1"	16"	-	(2) #5	
"C"	10'-1" TO 15'-0"	24"	-	(2) #5	

7 S008 TYPICAL NON-LOAD BEARING CMU WALL LINTEL SCHEDULE
NTS



BEARING PL SCHEDULE		
BEAM	PL (T x B x L) (IN)	COMMENTS
W8x10	3/8 x 6 x 14	
W8x15	3/8 x 6 x 14	
W12x26	3/8 x 6 x 18	

2 S008 TYPICAL BEAM BEARING ON CMU WALL DETAIL
NTS



MARK	BEAM SIZE / BOND BEAM DEPTH	CONT PL THK	VERT STIFF PL	COVER	BOND BM BOT REINF	COMMENTS
L-1	8" DEEP BOND BEAM	NONE	NONE	3"	(2) #5	SEE NOTES 1 & 2

NOTES:
1. EXTEND BOND BEAM REINF 30" PAST OPENING. REINFORCEMENT THAT CANNOT ACHIEVE 30" PAST OPENING SHALL TERMINATE IN 180 DEG HOOK AND EXTEND AT LEAST 18" PAST OPENING. NOTIFY ENGINEER IF THIS CANT BE ACHIEVED.
2. DO NOT INSTALL CONTROL JOINT IN CMU WITHIN BOND BEAM REINF.
3. UNLESS LINTEL BEAM CONNECTS TO A COLUMN, PROVIDE 8" BEARING AT EACH END OF LINTEL, UNO.
4. (E) JAMBS SHALL BE REINFORCED AND GROUTED SOLID.

6 S008 TYPICAL CMU LINTEL SCHEDULE
NTS

NOTES:
1. SEE ARCH DWGS FOR LOCATION OF NON-LOAD BRG CMU PARTITIONS.
2. COMPRESSIBLE FILLER AT NON-RATED WALLS. FIRESTOP AT RATED WALLS.

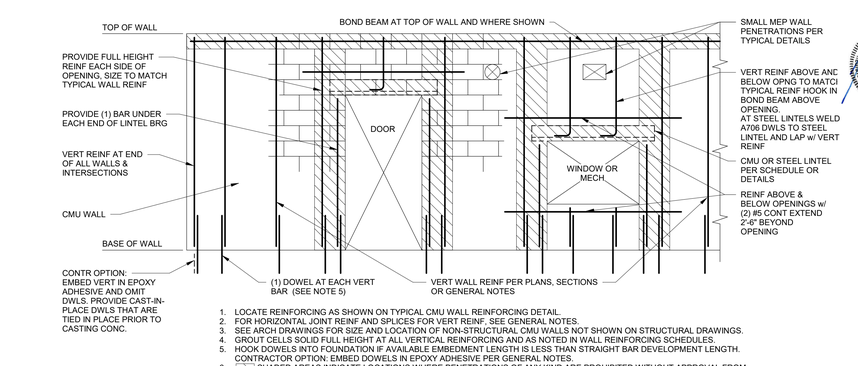
10 S008 TYPICAL NON-BEARING CMU PARTITION BRACE DETAIL PERPENDICULAR TO BEAM AT ROOF
NTS

NOTES:
1. SEE ARCH DWGS FOR LOCATION OF NON-LOAD BRG CMU PARTITIONS.
2. COMPRESSIBLE FILLER AT NON-RATED WALLS. FIRESTOP AT RATED WALLS.

14 S008 TYPICAL NON-BEARING CMU PARTITION BRACE DETAIL PARALLEL TO JOIST
NTS

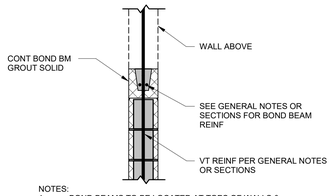
NOTES:
1. SEE ARCH DWGS FOR LOCATION OF NON-LOAD BRG CMU PARTITIONS.
2. COMPRESSIBLE FILLER AT NON-RATED WALLS. FIRESTOP AT RATED WALLS.

13 S008 TYPICAL NON-BEARING CMU PARTITION BRACE DETAIL PARALLEL TO BEAM
NTS



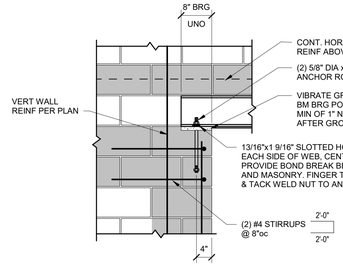
1. LOCATE REINFORCING AS SHOWN ON TYPICAL CMU WALL REINFORCING DETAIL.
2. FOR HORIZONTAL JOINT REINF AND SPLICES FOR VERT REINF, SEE GENERAL NOTES.
3. SEE ARCH DRAWINGS FOR SIZE AND LOCATION OF NON-STRUCTURAL CMU WALLS NOT SHOWN ON STRUCTURAL DRAWINGS.
4. GROUT CELLS SOLID FULL HEIGHT AT ALL VERTICAL REINFORCING AND AS NOTED IN WALL REINFORCING SCHEDULES.
5. HOOK DOWELS INTO FOUNDATION IF AVAILABLE EMBEDMENT LENGTH IS LESS THAN STRAIGHT BAR DEVELOPMENT LENGTH. CONTRACTOR OPTION: EMBED DOWELS IN EPOXY ADHESIVE PER GENERAL NOTES.
6. SHADED AREAS INDICATE LOCATIONS WHERE PENETRATIONS OF ANY KIND ARE PROHIBITED WITHOUT APPROVAL FROM THE STRUCTURAL ENGINEER.

1 S008 TYPICAL CMU WALL REINFORCING ELEVATION
NTS

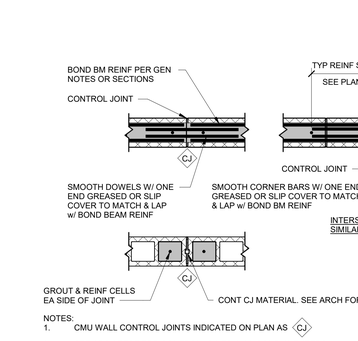


NOTES:
1. BOND BEAMS TO BE LOCATED AT TOPS OF WALLS & LOCATIONS AS INDICATED IN SECTIONS & DETAILS
2. PROVIDE CORNER BARS AT CORNERS AND INTERSECTIONS OF WALLS. CORNER BARS SHALL ACHIEVE LAP SPLICES NOTED IN GENERAL NOTES.
3. EXTEND BOND BEAM AROUND CORNERS WHERE REQUIRED TO ACCOMMODATE CORNER BARS.

5 S008 TYPICAL CMU BOND BEAM DETAIL
NTS

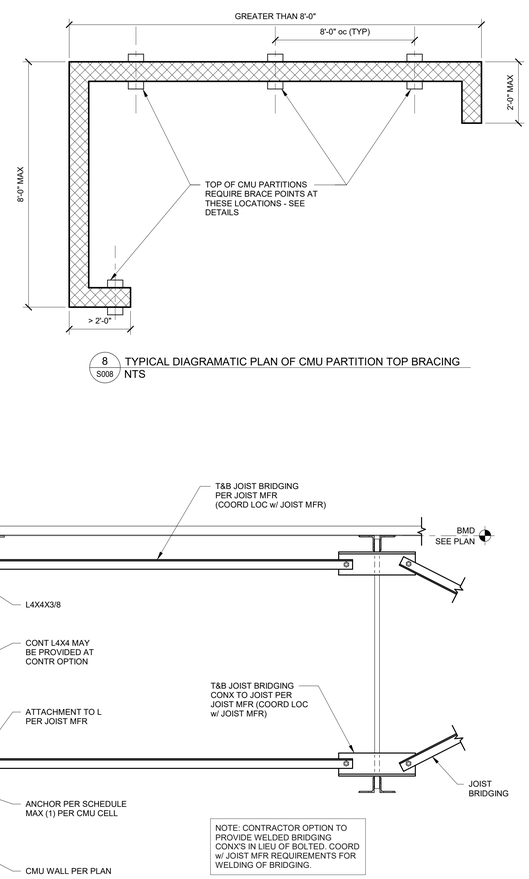


4 S008 TYPICAL STEEL BEAM OR LINTEL BEARING DETAIL PARALLEL TO WALL
NTS



NOTES:
1. CMU WALL CONTROL JOINTS INDICATED ON PLAN AS CJ
2. SEE ARCHITECT FOR CONTROL JOINTS IN MASONRY VENEERS.
3. CONTROL JOINTS IN MASONRY VENEERS DO NOT NEED TO ALIGN WITH CONTROL JOINTS IN LOAD BEARING CMU WALLS.
4. JOINT REINFORCING TO BE DISCONTINUOUS AT CONTROL JOINTS.
5. CONTROL JOINTS SHOWN IN STRUCTURAL DRAWINGS ARE FOR LOAD BEARING WALLS. SEE ARCHITECTURAL DRAWINGS FOR NON-LOAD BEARING WALLS. IF JOINTS ARE NOT SHOWN IN NON-LOAD BEARING WALLS, SPACE JOINTS AT A MAXIMUM OF 20'-0"oc. COORDINATE FINAL JOINT LOCATIONS WITH ARCHITECT.
6. DO NOT INSTALL CONTROL JOINTS THROUGH LINTELS OR LINTEL BEARING POINTS.
7. DO NOT BREAK BOND BEAM REINFORCING AT FLOOR AND ROOF LINES.
8. CONTINUE CONTROL JOINT TO BASE OF CMU WALL.

9 S008 TYPICAL CMU WALL CONTROL JOINT DETAIL
NTS



8 S008 TYPICAL DIAGRAMATIC PLAN OF CMU PARTITION TOP BRACING
NTS

	HOLLOW CONCRETE MASONRY UNITS	GROUT FILLED CONCRETE MASONRY UNITS	
	# OF 1/2" DIA ADHESIVE ANCHORS REQD (2" EFFECTIVE EMBED)	# OF 1/2" DIA ADHESIVE ANCHORS REQD (4 1/2" EFFECTIVE EMBED)	# OF 1/2" DIA EXPANSION ANCHORS REQD (3 1/2" EFFECTIVE EMBED)
K1-K12, LH02-08	2	2	2

NOTES:
1. NUMBER OF ANCHORS SHOWN ARE TO BE CENTERED ON EACH LINE OF BRIDGING.
2. EXP ANCHORS TO BE INSTALLED A MINIMUM OF 1 3/8" FROM ANY VERTICAL MORTAR JOINT.
3. A MAXIMUM OF (1) ANCHOR PER CMU CELL MAY BE USED.

NOTE: CONTRACTOR OPTION TO PROVIDE WELDED BRIDGING CONX'S IN LIEU OF BOLTED. COORD w/ JOIST MFR REQUIREMENTS FOR WELDING OF BRIDGING.

12 S008 TYPICAL JOIST BRIDGING DETAIL
NTS

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360/340 ECOLOGY DRIVE ST. PETERS, MO 63376

No.	Date	Revision

TYPICAL DETAILS

Project No.
2400235

Sheet No.
S008

Date
09/16/2025

9/11/2025 2:11:59 PM
Autodesk Docs://Central County F&R/2400235 Central County F&R Admin Bldg v23 STRUC.rvt

GENERAL SYMBOLS:

- THERMOSTAT
- THERMOSTAT (INSULATED SUB-BASE)
- THERMOSTAT (WITH GUARD)
- THERMOSTAT (NIGHT)
- NITROGEN DIOXIDE SENSOR
- CARBON MONOXIDE SENSOR
- CARBON DIOXIDE SENSOR
- HAND-AUTO CONTROL
- HUMIDISTAT
- SENSOR (T = TEMPERATURE H = HUMIDITY)
- REFRIGERANT LEAK DETECTION
- TYPE OF SERVICE — S = SUPPLY; SCHEDULE — R = RETURN; DEVICE NO — E = EXHAUST; T = TRANSFER
- AIR QUANTITY IN CFM
- KEYED NOTE (NEW CONSTRUCTION OR DEMOLITION)
- REVISION
- INTERFACE, EXISTING TO NEW
- SECTION NUMBER
- SHEET WHERE LOCATED
- EQUIPMENT DESIGNATION
- UNIT NUMBER
- #: DETAIL/VIEW NUMBER; XXXX: SHEET WHERE LOCATED

DUCTWORK SYMBOLS:

- DUCT SIZE, FIRST FIGURE IS SIDE SHOWN (ACTUAL SIZE INDICATED)
- SPIRAL FLAT - OVAL DUCT SIZE, FIRST FIGURE IS SIDE SHOWN (ACTUAL SIZE INDICATED)
- ACCESS PANEL, TOP OR SIDE
- FLEXIBLE DUCT CONNECTION
- CHANGE OF ELEVATION - RISE (R) OR DROP (D)
- TURNING VANES
- LIGHT LINETYPE INDICATES EXISTING ITEMS TO BE REMOVED
- DASHED LINETYPE INDICATES EXISTING ITEMS TO BE REMOVED
- MOTORIZED DAMPER
- GRAVITY BACK DRAFT
- MANUAL VOLUME DAMPER
- FIRE DAMPER
- SMOKE DAMPER
- FIRE/SMOKE DAMPER
- VENTURI AIR VALVE
- FLEXIBLE DUCT
- SUPPLY AIR SECTION UP
- RETURN AIR SECTION UP
- EXHAUST AIR SECTION UP
- OUTSIDE AIR SECTION UP
- SUPPLY AIR DOWN OR AWAY
- RETURN AIR DOWN OR AWAY
- EXHAUST AIR DOWN OR AWAY
- OUTSIDE AIR DOWN OR AWAY
- SUPPLY AIR FLOW ARROW
- RETURN OR EXHAUST AIR FLOW ARROW
- SUPPLY DIFFUSER, REGISTER OR GRILLE AS SCHEDULED
- RETURN OR EXHAUST GRILLE OR REGISTER AS SCHEDULED
- SLOT DIFFUSER AS SCHEDULED
- SIDEWALL GRILLE OR REGISTER AS SCHEDULED
- ARROWS INDICATE DIRECTION OF AIR DISCHARGE. IF NO ARROWS ARE SHOWN ON PLAN, DEFAULT IS 2-WAY HORIZONTAL FOR SLOT DIFFUSERS, 4-WAY HORIZONTAL FOR SQUARE DIFFUSERS.

PIPING SYMBOLS:

- CA — COMPRESSED AIR
- CHR — CHILLED/HOT WATER RETURN
- CHS — CHILLED/HOT WATER SUPPLY
- CF — CHEMICAL FEED
- GLR — GLYCOL RETURN
- GLS — GLYCOL SUPPLY
- CR — CONDENSER WATER RETURN
- CS — CONDENSER WATER SUPPLY
- CWR — CHILLED WATER RETURN
- CWS — CHILLED WATER SUPPLY
- CD — CONDENSATE DRAIN
- RL — REFRIGERANT LIQUID
- RS — REFRIGERANT SUCTION
- RV — REFRIGERANT VENT
- RHG — REFRIGERANT HOT GAS
- HWR — HEATING WATER RETURN
- HWS — HEATING WATER SUPPLY
- HPR — HIGH PRESSURE CONDENSATE RETURN
- HPS — HIGH PRESSURE STEAM SUPPLY
- LPR — LOW PRESSURE CONDENSATE RETURN
- LPS — LOW PRESSURE STEAM SUPPLY
- NP — MAKE-UP WATER (NON-POTABLE)
- PC — PUMPED CONDENSATE
- DOMESTIC COLD WATER
- DOMESTIC HOT WATER
- FOR — FUEL OIL RETURN
- FOS — FUEL OIL SUPPLY
- G — NATURAL GAS
- LP — LIQUEFIED PRETROLEUM

PIPELINE EQUIPMENT:

- BALL VALVE
- BLOWDOWN VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- GATE VALVE
- GLOBE VALVE
- PRESSURE REGULATING VALVE
- RELIEF VALVE (TEMP/PRESS)
- STOP CHECK VALVE
- PRESSURE TEST VALVE
- SOLENOID VALVE
- TWO-WAY CONTROL VALVE
- THREE-WAY CONTROL VALVE
- TRIPLE DUTY/MULTIPURPOSE VALVE
- FLOW CONTROL VALVE
- LUBRICATED PLUG COCK
- IN-LINE PUMP
- STRAINER
- STRAINER WITH BLOWDOWN
- UNION
- FLANGE
- ECCENTRIC REDUCER/INCREASER
- CONCENTRIC REDUCER/INCREASER
- AIR VENT (M-MANUAL, A-AUTO)
- THERMOMETER W/THERMAL WELL
- PRESSURE GAUGE W/GAUGE COCK
- CAP
- CALIBRATED PLUG VALVE/CIRCUIT SETTER
- FLEXIBLE PIPE COUPLING
- GAUGE COCK
- THERMOSTATIC EXPANSION VALVE
- SIGHT GLASS
- ELBOW DOWN
- ELBOW UP
- TEE DOWN
- TEE UP
- EXPANSION JOINT
- PIPE ANCHOR
- PIPE GUIDE
- PITCH DOWN IN DIRECTION OF ARROW
- PRESSURE/TEMPERATURE TEST PORT
- FLOW ARROW
- EXISTING TO BE REMOVED
- WATER METER (FLOW TOTALIZING TYPE)
- STEAM TRAP: IB = INVERTED BUCKET; FT = FLOAT & THERMOSTATIC; TD = THERMODYNAMIC DISK
- FLOW OR TEMPERATURE SWITCH

EQUIPMENT ABBREVIATIONS:

AC	AIR CURTAIN
ACC	AIR COOLED CONDENSER
ACU	AIR CONDITIONING UNIT
AF	AIR FILTER
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
AS	AUTOMATIC SPRINKLER
AV	AUTOMATIC VENT
B	BOILER
BFP	BACKFLOW PREVENTER
C	CHILLER
CAV	CONSTANT AIR VOLUME
CC	COOLING COIL
CFP	CHEMICAL FEED PUMP
CO	CLEANOUT
CP	CONDENSER WATER PUMP
CRP	CONDENSATE RETURN PUMP
CRU	COMPUTER ROOM AIR CONDITIONING UNIT
CT	COOLING TOWER
CTF	COOLING TOWER FILTER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CVAV	CONSTANT VOLUME AIR VALVE
CWP	CHILLED WATER PUMP
DC	DUCT COIL
DFH	DEAERATING FEEDWATER HEATER
DG	DOOR GRILLE
DP	DIFFERENTIAL PRESSURE SWITCH
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
EF	EXHAUST FAN
EG	EXHAUST GRILLE
EJ	EXPANSION JOINT
ER	EXHAUST REGISTER
ERH	ELECTRIC RADIANT HEATER
ET	EXPANSION TANK
EVC	EVAPORATIVE COOLER
FC	FLEXIBLE DUCT CONNECTION
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FLDR	FLOOR DRAIN
FS	FLOW SWITCH
FSD	COMBINATION FIRE/SMOKE DAMPER
FOT	FLAT ON TOP (DUCT FITTING)
FT	FLASH TANK
FTR	FIN-TUBE RADIATION
FTU	FAN TERMINAL UNIT
FVAV	FAN POWERED VARIABLE AIR VOLUME BOX
FVI	FLOOR VACUUM INLET
GP	GLYCOL PUMP
H	HUMIDIFIER
HC	HEATING COIL
HEV	HOSE END VALVE
HPU	HEAT PUMP UNIT
HRP	HEAT RECOVERY LOOP PUMP
HRU	HEAT RECOVERY UNIT
HWP	HEATING WATER PUMP
HX	HEAT EXCHANGER
L	LOUVER
LD	LINEAR DIFFUSER
MAU	MAKE-UP AIR UNIT
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
MV	MANUAL VENT
OBD	OPPOSED BLADE DAMPER
PA	PIPE ANCHOR
PAC	PACKAGED AIR CONDITIONING UNIT
PBD	PARALLEL BLADE DAMPER
PCWP	PRIMARY CHILLED WATER PUMP
PG	PIPE GUIDE
PHC	PREHEAT COIL
PHWP	PRIMARY HEATING WATER PUMP
PHX	PLATE HEAT EXCHANGER
PI	PRESSURE INDICATOR
PIV	POST INDICATOR VALVE
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
RF	RETURN FAN
RG	RETURN GRILLE
RR	RETURN REGISTER
RTU	ROOFTOP UNIT
SAC	SURGICAL AIR COMPRESSOR
SCBA	SELF CONTAINED BREATHING APPARATUS
SCD	SMOKE CONTROL DAMPER
SCWP	SECONDARY CHILLED WATER PUMP
SD	SMOKE DAMPER
SF	SUPPLY FAN
SG	SUPPLY GRILLE
SHWP	SECONDARY HEATING WATER PUMP
SMS	SNOW MELTING SYSTEM
SR	SUPPLY REGISTER
ST	STERILIZER
SVV	SAFETY VALVE VENT
TG	TRANSFER GRILLE
TMV	THERMOSTATIC MIXING VALVE
TRC	TERMINAL REHEAT COIL
UH	UNIT HEATER
VAV	VARIABLE AIR VOLUME BOX
VD	MANUAL VOLUME DAMPER
VE	VIBRATION ELIMINATOR

GENERAL ABBREVIATIONS:

A	AIR
ACC	ACCESSORIES
AFF	ABOVE FINISHED FLOOR
AI	ANALOG SIGNAL INPUT
AO	ANALOG SIGNAL OUTPUT
APD	AIR PRESSURE DROP
APLV	APPLICATION PART LOAD VALUE
ARCH	ARCHITECTURE / ARCHITECT
AUX	AUXILIARY
AVG	AVERAGE
BDD	BACK DRAFT DAMPER
BFC	BELOW FINISHED CEILING
BHP	BRAKE HORSEPOWER
BI	BINARY SIGNAL INPUT
BM	BEAM
BO	BINARY SIGNAL OUTPUT
BOB	BOTTOM OF BEAM
BOD	BOTTOM OF DUCT
BOF	BOTTOM OF FOOTING
BOP	BOTTOM OF PIPE
BOT	BOTTOM
BS	BEAM SPACE
BTUH	BRITISH THERMAL UNITS PER HOUR
CAP	CAPACITY
CAV	CONSTANT AIR VOLUME
CCD	CONTROLLED CLOSURE DEVICE
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CL	CENTERLINE
CLG	COOLING DUCT (COLD DUCT)
CONC	CONCRETE
COND	CONDENSATE
CONN	CONNECTION
CORR	CORRIDOR
CV	CONTROL VALVE
DB	DRY BULB
DBA	A-WEIGHTED DECIBELS
DEFL	DEFLECTION
DEG	DEGREES
DEG F	DEGREES FAHRENHEIT
DIA	DIAMETER
DIM	DIMENSION
DISCH	DISCHARGE
DIV	DIVISION
DN	DOWN
DTL	DETAIL
DWG(S)	DRAWING(S)
EA	EXHAUST AIR OR EACH (PER CONTEXT)
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRIC CONTRACTOR
EER	ENERGY EFFICIENT RATIO
EFF	EFFICIENCY
ELEC	ELECTRIC
ELEV	ELEVATION
EQ	EQUAL
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING AIR WET BULB TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EXIST, EX	EXISTING
FDC	FIRE DEPARTMENT CONNECTION
FIN	FINISHED
FLR	FLOOR
FPC	FIRE PROTECTION CONTRACTOR
FPM	FEET PER MINUTE
FT	FEET
FT-HD	HEAD IN FEET
GA	GAUGE
GAL	GALLONS
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
H	HEIGHT
HS	HEAD
HORIZ	HORIZONTAL
HP	HORSEPOWER
HR	HOUR
HTG	HEATING DUCT (HOT DECK)
HVAC	HEATING, VENTILATION AND AIR CONDITION
HW	HOT WATER
HZ	HERTZ
IE	INVERT ELEVATION
IN	INCH/INCHES
INDIC	INDICATOR
ISP	INTERNAL STATIC PRESSURE
JS	JOIST SPACE
KEC	KITCHEN EQUIPMENT CONTRACTOR
KW	KILOWATTS
L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LB(S)	POUND(S)

GENERAL ABBREVIATIONS:

LF	LINEAR FEET
LS	LIGHT SPACE
LVL	LEVEL
LWT	LEAVING WATER TEMPERATURE
MAN	MANUAL
MAX	MAXIMUM
MBH	THOUSANDS BRITISH THERMAL UNITS PER HOUR
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MTL	METAL
NC	NORMALLY CLOSED OR NOISE CRITERIA (PER CONTEXT)
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN OR NUMBER (PER CONTEXT)
NOM	NOMINAL
NPLV	NON-STANDARD PART LOAD VALUE
NPS	NOMINAL PIPE SIZE
NPSH	NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OC	ON CENTER
OD	OUTISDE DIAMETER
OFCI	OWNER FURNISHED / CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED / OWNER INSTALLED
OT	OIL TRAP
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PENT	PENTHOUSE
PH	PHASE
PNEU	PNEUMATIC
PPH	POUNDS PER HOUR
PRESS	PRESSURE
PRV	PRESSURE REGULATING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	PSI ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
QTY	QUANTITY
RA	RETURN AIR
RAD	RADIATED
RH	RELATIVE HUMIDITY
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SAN	SANITARY
SEC'N	SECTION
SENS	SENSIBLE
SF	SQUARE FOOT
SH	SENSIBLE HEAT
SHT	SHEET
SOL	SOLENOID
SP	STATIC PRESSURE
SPD	STATIC PRESSURE DIFFERENTIAL
SPT	STATIC PRESSURE TRANSMITTER
SQ	SQUARE
SST	STAINLESS STEEL
STL	STEEL
STM	STEAM
SW	SOFTENED WATER
T&P	TEMPERATURE AND PRESSURE
TC	TEMPERATURE CONTROL
TD	THERMODYNAMIC
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPERATURE
TOF	TOP OF FOOTING
TOS	TOP OF SLAB
TOT	TOTAL
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UC	UNDER CUT DOOR
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
VAC	VACUUM
VB	VACUUM BREAKER
VD	VOLUME DAMPER (MANUAL)
VE	VIBRATION ELIMINATOR OR ISOLATOR
VEL	VELOCITY
VERT	VERTICAL
VOL	VOLUME
VRF	VARIABLE REFRIGERANT FLOW
VTR	VENT THRU ROOF
W	WATT OR WIDTH (PER CONTEXT)
WB	WET BULB
WC	WATER COLUMN
WG	WATER GAUGE
WPD	WATER PRESSURE DIFFERENTIAL
WT	WEIGHT
W/	WITH
W/O	WITHOUT

GENERAL NOTES:

1. THESE PLANS ARE DIAGRAMMATIC IN NATURE. THE EXACT LOCATION OF DUCTWORK, PIPING AND EQUIPMENT MAY DEVIATE FROM THE LOCATION INDICATED ON THESE DRAWINGS. THE CONTRACTOR SHALL BE PREPARED TO MAKE ALTERATIONS TO SERVICES TO FIT ACTUAL JOB CONDITIONS.
2. ALL ELBOWS, FITTINGS, ETC. IN PIPING AND DUCTWORK ARE NOT NECESSARILY INDICATED TO CLEAR ALL EXISTING AND NEW JOB OBSTRUCTIONS.
3. BECAUSE OF THE LIMITED SPACE AVAILABLE TO INSTALL ALL OF THE MECHANICAL WORK, COORDINATION BETWEEN THE VARIOUS TRADES IS OF THE UTMOST IMPORTANCE.
4. IF THE CONTRACTOR DOES NOT CLEARLY UNDERSTAND THESE PLANS, OR IS NOT SURE OF THEIR MEANING, THE CONTRACTOR SHALL OBTAIN THE ENGINEER'S WRITTEN EXPLANATION AND INTERPRETATION. PRIOR TO SUBMITTING THE BID, SINCE THE CONTRACTOR SHALL BE HELD RIGIDLY TO THE INTERPRETATION OF THE ENGINEER.
5. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ALL CEILING AIR DEVICE LOCATIONS.
6. REFER TO ARCHITECTURAL ELEVATION DRAWINGS FOR LOCATION OF WALL MOUNTED MECHANICAL ITEMS.
7. ROUND AND/OR RECTANGULAR DUCT RUN-OUTS TO AIR DEVICES, SHALL BE SIZED PER THE AIR DEVICE SCHEDULE.
8. DUCT SIZES SHOWN ARE FREE AREA. IF DUCT LINER IS USED, INCREASE THE SHEETMETAL SIZE TO MAINTAIN THE SAME FREE AREA SHOWN ON THE PLANS.
9. LOCATE ALL DUCT BALANCING DAMPERS ABOVE ACCESSIBLE CEILINGS, OR PROVIDE ACCESS DOORS. MINIMUM ACCESS DOOR SIZE SHALL BE 18x18 UNLESS OTHERWISE APPROVED BY ENGINEER.
10. PROVIDE VOLUME DAMPERS IN ACCESSIBLE LOCATION IN BRANCH DUCTWORK FOR ALL SUPPLY, RETURN, AND EXHAUST AIR DEVICES WHETHER SHOWN ON THE DRAWINGS OR NOT. REFER TO THE AIR DEVICE SCHEDULE FOR DEVICES WITH BUILT IN DAMPERS.
11. BLANK-OFF AREAS OF LOUVERS NOT USED WITH 20 GAGE SHEET METAL DOUBLE WALL BLANK-OFF PANEL INSULATED WITH 2" RIGID FIBERBOARD, SEAL AIR TIGHT.
12. INSTALL RIGID 1"x1" GALVANIZED STEEL WIRE MESH AT ALL OPEN ENDED DUCTS IN OCCUPIED AREAS OR EXPOSED TO VIEW.
13. INSTALL ALL FLOOR MOUNTED HVAC EQUIPMENT, INCLUDING AHUS, CUS, ETC. ON 4" MINIMUM HEIGHT CONCRETE HOUSEKEEPING PAD. EXTEND PAD MINIMUM 4" BEYOND EQUIPMENT AT ALL SIDES. REFER TO STRUCTURAL PLANS FOR LOCATION.
14. PATCH ALL WALLS, FLOORS, CEILINGS AND ROOFS TO MATCH EXISTING IN ALL CASES WHERE EXISTING WALLS, FLOORS, CEILINGS AND ROOFS REMAIN AND HVAC DEMOLITION IS INDICATED.
15. PROVIDE POSITIVE DRAINAGE OF ALL PLENUMS CONNECTED TO OUTSIDE LOUVERS. WATERPROOF BOTTOM OF PLENUMS. SLOPE PLENUM BOTTOM TO LOUVER OR PROVIDE DRAIN POINTS WITH DISCHARGE TO DRAIN.
16. REFRIGERANT PIPING TO BE SIZED BY EQUIPMENT MANUFACTURER.
17. ROUTE CONDENSATE PIPING FROM ALL EQUIPMENT TO NEAREST FLOOR DRAIN UNLESS NOTED OTHERWISE ON THE FLOOR PLANS. DRAINS SHALL BE DWV COPPER IN ALL RETURN AIR PLENUMS AND WHERE HIDDEN IN INACCESSIBLE WALLS, FLOORS, CEILINGS, ETC. UNLESS SPECIFICALLY NOTED OTHERWISE.
18. DETAILS SHOWN IN THESE DRAWINGS APPLY TO INSTALLATIONS INDICATED REGARDLESS AS TO IF THEY ARE SPECIFICALLY REFERENCED ELSE WHERE IN THE DRAWING SET. ANY QUESTIONS ON THEIR APPLICABILITY SHOULD BE SENT TO THE ENGINEER PRIOR TO BIDDING.

ROOF PROTECTION NOTES:

1. PROVIDE A LAYER OF 3/4" PLYWOOD OVER ALL WALKING PATHS AND AT ALL LOCATIONS WHERE EQUIPMENT, TOOLS, ETC. ARE LAID DOWN. NO MATERIALS, TOOLS, ETC. SHALL BE LEFT ON THE ROOF OVERNIGHT.
2. CONTACT (OWNER'S ROOFING COMPANY AND PHONE NUMBER) PRIOR TO START OF CONSTRUCTION TO DETERMINE ADDITIONAL REQUIREMENTS FOR ROOF PROTECTION TO MAINTAIN ROOF WARRANTY.

MECHANICAL SYSTEM COMPONENTS EARTHQUAKE LOAD RESISTANCE

OCCUPANCY CATEGORY (II) — **SEISMIC DESIGN CATEGORY (C)**

LISTING OF EQUIPMENT & SYSTEM COMPONENTS	ANCHORAGE TO FLOORS, ROOF, ETC.		SWAY BRACING		LOCATION OF PROFESSIONALLY-SEALED ANCHORAGE AND SWAY BRACING DETAILS		COMMENTS
					ON CONSTRUCTION DOCUMENTS	SUBSEQUENT SUBMITTAL SEPARATE PERMIT AND PLANS	
	NOT PROVIDED	PROVIDED	NOT PROVIDED	PROVIDED	DRAWING NO. OR SPEC. SECTION		
HAZARDOUS EQUIPMENT AND SYSTEM COMPONENTS Ip=1.5							
GAS PIPING 1" OR LESS (INTERIOR & EXTERIOR)	X		X				NOTE 7
GAS PIPING > 1" OR NON-DUCTILE (INTERIOR)		X		X			
EXTERIOR NATURAL GAS PIPING > 1"		X		X			
KITCHEN GREASE HOOD		X		X			
KITCHEN EXHAUST FAN		X		X			
OTHER EQUIPMENT & SYSTEM COMPONENTS NEEDED FOR CONTINUED OPERATION OF OCCUPANCY CATEGORY IV FACILITIES OR WHOSE FAILURE COULD IMPAIR THEIR CONTINUED OPERATION Ip=1.5							
OTHER GENERAL EQUIPMENT & SYSTEM COMPONENTS Ip=1.0							
ROOFTOP: RTU, EF, MUA, AHU, CU > 400 LBS		X	X			X	
ROOFTOP: RTU, EF, MUA, AHU, CU <= 400 LBS	X		X				NOTE 4
FLOOR MOUNTED: AHU, BOILER, CHILLER > 400 LBS		X	X			X	
FLOOR MOUNTED: FURNACE, FCU, PUMP, ETC. <= 400 LBS	X		X				NOTE 4
SUSPENDED FROM STRUCTURE: EF, FCU, VAV > 20 LBS		X		X		X	
SUSPENDED FROM STRUCTURE: EF, FCU, VAV <= 20 LBS	X		X				NOTE 3
WALL MOUNTED: UH, FCU, ETC.							
DUCTWORK							
PIPING							
DIFFUSER, REGISTERS, & GRILLES	X		X				NOTE 3
FIRE DAMPERS, LOUVERS	X		X				NOTE 8

EXPLANATORY NOTES:
1. PLANS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF THIS PROJECT ALONG WITH A SEPARATE PERMIT APPLICATION NEED TO BE SUBMITTED TO THE AHJ A MINIMUM OF TWO WEEKS PRIOR TO THE PLANNED INSTALLATION TO ALLOW FOR PLAN REVIEW AND DISTRIBUTION TO THE INSPECTOR. ADDITIONAL TIME MAY BE NEEDED IF SUCH SUBMISSIONS ARE DEFICIENT.
2. SWAY BRACING REQUIRED FOR ITEMS SUSPENDED FROM STRUCTURE, UNLESS EXEMPT.
3. ANCHORAGE & BRACING CONTRACTOR SHALL REFER TO SPECIFICATIONS ON SEISMIC ANCHORAGE & SWAY BRACING.
4. ALL SEISMIC SHOP DRAWINGS SHALL BE REVIEWED BY THE ENGINEER OF RECORD PRIOR TO SUBMITTAL TO THE CODE REVIEWER.
5. CONTRACTOR SHALL ADHERE TO REQUIREMENTS FOR EXEMPTION, WHERE NOTED, OR PROVIDE SEISMIC BRACING DESIGNED BY A QUALIFIED ENGINEER LICENSED IN THE PROJECT'S STATE.

EXEMPTION NOTES:
1. SEISMIC DESIGN CATEGORY B - ASCE 7-22 TABLE 13.1-1
2. SEISMIC DESIGN CATEGORY C, THE COMPONENT IMPORTANCE FACTOR IS Ip=1.0, AND THE COMPONENT IS POSITIVELY ATTACHED TO THE STRUCTURE. ASCE 7-22 TABLE 13.1-1.
3. SEISMIC DESIGN CATEGORY C, D, E, OR F AND THE COMPONENT WEIGHS 20 LBS OR LESS. ASCE 7-22 TABLE 13.1-1.
4. SEISMIC DESIGN CATEGORY D, E, OR F, AND THE COMPONENT IMPORTANCE FACTOR Ip=1.0, AND THE CENTER OF MASS IS 4 FT OR LESS ABOVE THE FLOOR, AND THE COMPONENT WEIGHS 400LBS OR LESS, AND FLEXIBLE CONNECTIONS ARE PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. ASCE 7-22 TABLE 13.1-1.
5. SEISMIC DESIGN CATEGORY D, E, OR F, AND THE COMPONENT IMPORTANCE FACTOR Ip=1.0, AND FOR DISTRIBUTION SYSTEMS THE OPERATING WEIGHT OF THE SYSTEM IS 5LB/FT OR LESS. ASCE 7-22 TABLE 13.1-1.
6. DUCTWORK WITH A CROSS-SECTIONAL AREA LESS THAN 6 FT^2 AND WEIGH 20 LB/FT OR LESS WHERE PROVISIONS ARE MADE TO AVOID IMPACT WITH OTHER DUCTS OR MECHANICAL COMPONENTS OR TO PROTECT THE DUCTS IN THE EVENT OF SUCH IMPACT AND THE DISTRIBUTION SYSTEM IS POSITIVELY ATTACHED TO THE STRUCTURE. ASCE 7-22 SECTION 13.6.6 EXCEPTION 2.
7. PIPING SYSTEMS WHERE FLEXIBLE CONNECTIONS, EXPANSION LOOPS, OR OTHER ASSEMBLIES ARE PROVIDED TO ACCOMMODATE THE RELATIVE DISPLACEMENT BETWEEN COMPONENT AND PIPING, WHERE THE PIPING SYSTEM IS POSITIVELY ATTACHED TO THE STRUCTURE, AND WHERE ONE OF THE FOLLOWING APPLY (ASCE 7-22 SECTION 13.6.7.3):
   - 7.1 TRAPEZE ASSEMBLIES ARE SUPPORTED BY 0.375 IN. (10 MM) DIAMETER ROD HANGERS NOT EXCEEDING 12 IN. (305 MM) IN LENGTH FROM THE PIPE SUPPORT POINT TO THE CONNECTION AT THE GREATER SUPPORTING STRUCTURE, DO NOT SUPPORT PIPING WITH Ip GREATER THAN 1.0, NO SINGLE PIPE EXCEEDS THE LIMITS SET FORTH IN ITEMS 7.4A, 7.4B, OR 7.4C BELOW, AND THE TOTAL WEIGHT SUPPORTED BY ANY SINGLE TRAPEZE IS 100 LB (445 N) OR LESS;
   - 7.2 TRAPEZE ASSEMBLIES ARE SUPPORTED BY 0.5 IN. (13 MM) DIAMETER ROD HANGERS NOT EXCEEDING 12 IN. (305 MM) IN LENGTH FROM THE PIPE SUPPORT POINT TO THE CONNECTION AT THE SUPPORTING STRUCTURE, DO NOT SUPPORT PIPING WITH Ip GREATER THAN 1.0, NO SINGLE PIPE EXCEEDS THE DIAMETER LIMITS SET FORTH IN ITEMS 7.4A, 7.4B, OR 7.4C BELOW, AND THE TOTAL WEIGHT SUPPORTED BY ANY SINGLE TRAPEZE IS 200 LB (890 N) OR LESS;
   - 7.3 TRAPEZE ASSEMBLIES ARE SUPPORTED BY 0.5 IN. (13 MM) DIAMETER ROD HANGERS NOT EXCEEDING 24 IN. (610 MM) IN LENGTH FROM THE PIPE SUPPORT POINT TO THE CONNECTION AT THE GREATER SUPPORTING STRUCTURE, DO NOT SUPPORT PIPING WITH Ip GREATER THAN 1.0, NO SINGLE PIPE EXCEEDS THE DIAMETER LIMITS SET FORTH IN ITEMS 7.4A, 7.4B, OR 7.4C BELOW, AND THE TOTAL WEIGHT SUPPORTED BY ANY SINGLE TRAPEZE IS 100 LB (445 N) OR LESS;
   - 7.4 PIPING IS SUPPORTED BY ROD HANGERS AND PROVISIONS ARE MADE TO AVOID IMPACT WITH OTHER STRUCTURAL OR NONSTRUCTURAL COMPONENTS OR TO PROTECT THE PIPING IN THE EVENT OF SUCH IMPACT, OR PIPES ARE SUPPORTED BY INDIVIDUAL ROD HANGERS 0.375 IN. (10 MM) OR 0.5 IN. (13 MM) IN DIAMETER, WHERE EACH HANGER IN THE PIPE RUN IS 12 IN. (305 MM) OR LESS IN LENGTH FROM THE PIPE SUPPORT POINT TO THE CONNECTION AT THE SUPPORTING STRUCTURE, AND THE TOTAL WEIGHT SUPPORTED BY ANY SINGLE HANGER IS 50 LB (220 N) OR LESS. IN ADDITION, THE FOLLOWING LIMITATIONS ON THE SIZE OF PIPING SHALL BE OBSERVED:
     - (A) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C WHERE Ip IS GREATER THAN 1.0, THE NOMINAL PIPE SIZE IS 2 IN. (50 MM) OR LESS.
     - (B) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY D, E, OR F WHERE Ip IS GREATER THAN 1.0, THE NOMINAL PIPE SIZE IS 1 IN. (25 MM) OR LESS.
     - (C) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY D, E, OR F WHERE Ip 1.0, THE NOMINAL PIPE SIZE IS 3 IN. (80 MM) OR LESS.

MECHANICAL LEGEND

NOT ALL SYMBOLS AND ABBREVIATIONS ARE USED

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CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2026

Proposed:
CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE
ST. PETERS, MO 63376
360/340 ECOLOGY DRIVE

No.	Date	Revision

MECHANICAL SYMBOLS & ABBRV.

Project No. 23121

Sheet No. M001

Date 09/16/2025

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SCALE: 1/2" = 1'-0" 1 0
SCALE: 3" = 1'-0" 6 0
SCALE: 1 1/2" = 1'-0" 3 0
SCALE: 1" = 1'-0" 2 0
SCALE: 3/4" = 1'-0" 1 0
SCALE: 1/2" = 1'-0" 1 0
SCALE: 3/8" = 1'-0" 2 0
SCALE: 1/4" = 1'-0" 4 0
SCALE: 1/8" = 1'-0" 8 0
SCALE: 3/32" = 1'-0" 16 0
SCALE: 1/16" = 1'-0" 32 0

ROOFTOP UNIT SCHEDULE

UNIT NO.	BASIS OF DESIGN		AREA SERVED	REFRIGERANT TYPE	NOMINAL TONS	SUPPLY FAN						EXHAUST FAN		COOLING SECTION					HOT GAS REHEAT COIL		GAS HEATING				FILTERS	ELECTRICAL CHARACTERISTICS				UNIT WEIGHT (LBS)	NOTES
	MANUFACTURER	MODEL				TOTAL CFM	OA CFM	HEATING CFM	EXT. S.P. (IN WC)	BHP	HP	BHP	HP	TOTAL COOLING (MBH)	SENSIBLE CAPACITY (MBH)	EAT DB/WB (°F)	LAT DB/WB (°F)	AMBIENT TEMP DB (°F)	CAPACITY (MBH)	LAT DB/WB (°F)	MBH INPUT	MBH OUTPUT	EAT (DB - °F)	LAT (DB - °F)	MERV	FLA	MCA	MOCP	V/PH/HZ		
RTU 01	AAON	RNA-025	HEADQUARTERS	R-454B	25.0	4500	1465	4500	2.0	4.54	7.5	1.25	2.0	254.5	154.5	79.9 / 67.7	47.8 / 47.7	105.0	-	-	270.0	218.7	48.1	92.6	8	137	151	200	208/3/60	3200	1, 2, 3, 4, 5, 6
RTU 02	AAON	RNA-030	HEADQUARTERS	R-454B	30.0	5900	1855	5900	2.0	6.58	10.0	2.33	3.0	289.0	182.1	79.3 / 67.3	50.5 / 50.3	105.0	-	-	270.0	218.7	48.3	82.2	8	168	182	225	208/3/60	3242	1, 2, 3, 4, 5, 6
RTU 03	AAON	RNA-008	WARM TRAINING	R-454B	8.0	2800	420	2800	1.25	1.77	3.0	-	-	91.9	76.0	76.6 / 63.0	51.4 / 51.2	105.0	62.1	72.0 / 59.5	150.0	121.5	63.8	103.4	8	39	46	70	208/3/60	1300	1, 2, 3, 4, 5, 6

NOTES:
1. PROVIDE UNIT WITH VARIABLE SPEED SCROLL COMPRESSOR.
2. PROVIDE UNIT WITH SEISMIC RATED VIBRATION ISOLATION CURB.
3. LISTED COOLING LEAVING AIR TEMPERATURE IS LEAVING COIL.
4. PROVIDE WITH DISCONNECT POWER SWITCH AND CONVENIENCE OUTLET.
5. PROVIDE UNIT WITH BACNET INTERFACE TO ALLOW FOR FUTURE CONNECTION TO BUILDING AUTOMATION SYSTEM.
6. LISTED COOLING CAPACITIES ARE GROSS CAPACITY.

INDOOR AIR HANDLING UNIT SCHEDULE

UNIT NO.	BASIS OF DESIGN		SEER (BTU/H-W)	REFRIGERANT TYPE	SUPPLY FAN				COOLING SECTION				HOT GAS REHEAT COIL		GAS HEATING			ELECTRICAL DATA			WEIGHT (LBS)	NOTES
	MANUFACTURER	MODEL			AIRFLOW MAX (CFM)	OA (CFM)	ESP (IN WC)	HP	COOLING CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	EAT DB/WB (°F)	LAT DB/WB (°F)	CAPACITY (MBH)	LAT DB/WB (°F)	HEATING CAPACITY (MBH)	EAT (DB -°F)	LAT (DB -°F)	V/PH/HZ	MCA	MOCP		
AHU 01	AAON	V3-BRB-8-0461-KCD	13.8	R-454B	815	430	0.5	1.0	46.9	28.8	85.6 / 71.1	52.3 / 52.2	19.6	75.0 / 61.0	40.5	55.0	100.9	208/3/60	4.0	15.0	989	1, 2, 3

NOTES:
1. INSTALL ON ELEVATED UNISTRUT SUPPORT FRAMING.
2. LISTED COOLING CAPACITIES ARE GROSS CAPACITY.
3. LISTED COOLING LEAVING AIR TEMPERATURE IS LEAVING COIL.

VAV SCHEDULE - ELECTRIC

UNIT NO.	UNIT SIZE (DIA)	AIRFLOW (CFM)		INLET STATIC PRESSURE (IN)	DOWNSTREAM STATIC PRESSURE (IN)	ELECTRIC HEATING COIL								MAX DISCHARGE NC LEVEL	MAX RADIATED NC LEVEL	BASIS OF DESIGN		WEIGHT (LBS)	NOTES
		MAX	MIN			HEATING CFM	HEATING CAPACITY (MBH)	KW	MCA	MOCP	V/PH/HZ	STEPS	EAT (°F)	LAT (°F)			MANUFACTURER	MODEL		
VAV 01	6	180	65	1.0	0.25	180	6.82	2.0	22.7	25.0	120/1/60	SCR	55	89.9	<20	<20	PRICE INDUSTRIES	SDVQ	73	1, 2
VAV 02	8	510	155	1.0	0.25	430	17.06	5.0	18.9	20.0	208/3/60	SCR	55	91.5	<20	<20	PRICE INDUSTRIES	SDVQ	79	1, 2
VAV 03	6	390	125	1.0	0.25	360	13.64	4.0	15.1	20.0	208/3/60	SCR	55	89.9	<20	21	PRICE INDUSTRIES	SDVQ	73	1, 2
VAV 04	6	270	75	1.0	0.25	270	10.23	3.0	34.1	35.0	120/1/60	SCR	55	89.9	<20	<20	PRICE INDUSTRIES	SDVQ	73	1, 2
VAV 05	10	1050	320	1.0	0.25	555	17.06	5.0	18.9	20.0	208/3/60	SCR	55	83.3	<20	22	PRICE INDUSTRIES	SDVQ	92	1, 2
VAV 06	8	470	145	1.0	0.25	180	6.82	2.0	22.7	25.0	120/1/60	SCR	55	89.9	<20	<20	PRICE INDUSTRIES	SDVQ	79	1, 2
VAV 07	6	375	115	1.0	0.25	135	5.11	1.5	17.0	20.0	120/1/60	SCR	55	89.9	<20	<20	PRICE INDUSTRIES	SDVQ	73	1, 2
VAV 08	10	1200	360	1.0	0.25	690	27.30	8.0	30.30	35.0	208/3/60	SCR	55	91.4	<20	25	PRICE INDUSTRIES	SDVQ	92	1, 2
VAV 09	8	510	160	1.0	0.25	175	6.82	2.0	22.7	25.0	120/1/60	SCR	55	90.9	<20	<20	PRICE INDUSTRIES	SDVQ	79	1, 2
VAV 10	6	380	115	1.0	0.25	115	3.41	1.0	11.3	15.0	120/1/60	SCR	55	82.3	<20	20	PRICE INDUSTRIES	SDVQ	73	1, 2
VAV 11	6	375	115	1.0	0.25	115	3.41	1.0	11.3	15.0	120/1/60	SCR	55	82.3	<20	<20	PRICE INDUSTRIES	SDVQ	73	1, 2
VAV 12	14	2200	660	1.0	0.25	1485	54.60	16.0	60.0	60.0	208/3/60	SCR	55	88.9	<20	26	PRICE INDUSTRIES	SDVQ	168	1, 2, 3
VAV 13	12	1700	510	1.0	0.25	630	23.88	7.0	26.5	30.0	208/3/60	SCR	55	89.9	<20	25	PRICE INDUSTRIES	SDVQ	140	1, 2, 3
VAV 14	12	1700	490	1.0	0.25	585	22.17	6.5	24.6	25.0	208/3/60	SCR	55	89.9	<20	25	PRICE INDUSTRIES	SDVQ	140	1, 2, 3
VAV 15	12	1700	490	1.0	0.25	585	22.17	6.5	24.6	25.0	208/3/60	SCR	55	89.9	<20	25	PRICE INDUSTRIES	SDVQ	140	1, 2, 3

NOTES:
1. NC AT 1.0 IN WG ΔPs BASED ON AHRI STANDARD 885.
2. PROVIDE WITH DISCHARGE AIR TEMPERATURE SENSOR, DOOR INTERLOCKED DISCONNECT AND 24 VOLT CONTROLS TRANSFORMER. COORDINATE ALL CONTROL REQUIREMENTS WITH CONTROL VENDOR.
3. PROVIDE WITH OVERSIZE CASING.

AIR DEVICE SCHEDULE

PLAN MARK	MANUFACTURER	MODEL	MAX FLOW CFM	CONNECTION SIZE		GRILLE SIZE	MODULE SIZE	LINER SLOTS		MAX NC	MAX PRESSURE DROP IN-WG	MATERIAL	BORDER TYPE	FINISH	ACCESSORIES	NOTES
				WIDTH OR DIAMETER	LENGTH			NUMBER	WIDTH							
S10	PRICE INDUSTRIES	SPD	125	6"			12x12			20	0.10	ST	SURFACE	BWE		1
S11	PRICE INDUSTRIES	SPD	130	6"			24x24			20	0.03	ST	LAY-IN	BWE		
S12	PRICE INDUSTRIES	SPD	235	8"			24x24			20	0.03	ST	LAY-IN	BWE		
S13	PRICE INDUSTRIES	SPD	235	8"			24x24			20	0.03	ST	LAY-IN	BWE		1
S14	PRICE INDUSTRIES	SPD	380	10"			24x24			20	0.03	ST	LAY-IN	BWE		
S20	PRICE INDUSTRIES	TBD3100	125	6"			4'-0"L	1	1"	20	0.12	SEE NOTE 11	LAY-IN	STD	PC	2, 5
S21	PRICE INDUSTRIES	SDBI100	220	8"			4'-0"L	2	1"	22	0.11	SEE NOTE 11	LAY-IN	STD	PC	3, 6
S30	PRICE INDUSTRIES	520	110	7"	5"	8-3/4" x 6-3/4"				20	0.03	ST	SURFACE	BWE	VC	8
S31	PRICE INDUSTRIES	520	205	12"	5"	13-3/4" x 6-3/4"				20	0.04	ST	SURFACE	BWE	VC	8
S40	PRICE INDUSTRIES	SDGE	225	10"	5"	11" x 6-1/8"				22	0.10	ST	SURFACE	STD	AS	4
S60	PRICE INDUSTRIES	LV1	130	30"	5"	31" x 6-1/2"				20	0.03	AL	SURFACE	BWE		16
S70	PRICE INDUSTRIES	LPB	200	24"	4"	25-23/32" x 5-23/32"				22	0.06	AL	SURFACE	BWE		14
S71	PRICE INDUSTRIES	LPB	400	36"	5"	37-23/32" x 6-23/32"				21	0.06	AL	SURFACE	BWE	CPF	13
S90	PRICE INDUSTRIES	620	360	10"	10"	11-3/4" x 11-3/4"				20	0.09	AL	SURFACE	BWE		10
R10	PRICE INDUSTRIES	535	705	18"	22'18"	22"	24x24			20	0.02	ST	LAY-IN	BWE		7 @ 225 FPM
R20	PRICE INDUSTRIES	PDDR	150	8"			24X24			20	0.04	ST	LAY-IN	BWE		
R21	PRICE INDUSTRIES	PDDR	250	10"			24x24			20	0.04	ST	LAY-IN	BWE		
R30	PRICE INDUSTRIES	LV1	140	42"	5"	43" x 6-1/2"				24	0.01	AL	SURFACE	BWE		17 @ 396 FPM
R70	PRICE INDUSTRIES	LPB	175	24"	4"	25-23/32" x 5-23/32"				20	0.05	AL	SURFACE	BWE		15
E10	PRICE INDUSTRIES	SPD	115	6"			12x12			20	0.03	ST	SURFACE	BWE		1
E11	PRICE INDUSTRIES	SPD	115	6"			12x12			20	0.03	ST	SURFACE	BWE		
E12	PRICE INDUSTRIES	SPD	225	8"			24x24			20	0.08	ST	SURFACE	BWE		1
E20	PRICE INDUSTRIES	635	240	10"	10"	11-3/4" x 11-3/4"				20	0.06	AL	SURFACE	BWE		9
E21	PRICE INDUSTRIES	635	260	24"	8"	25-3/4" x 9-3/4"				20	0.06	AL	SURFACE	BWE		9
E90	PRICE INDUSTRIES	80	4735	46"	20"	47-11/16" x 21-11/16"				27	0.08	AL	SURFACE	BWE		12

NOTES:
1. PROVIDE WITH METROPOLITAN AIR TECHNOLOGY RT-250 DAMPER SYSTEM WITH RT-CCS RECTANGULAR CEILING CUP.
2. 1" SLOT WIDTH, 1-SLOT, INTEGRAL PLENUMS (LOW PROFILE OF 8" HIGH) SHALL BE EQUIPPED WITH A SIDE INLET COLLAR AND SHALL BE EXTERNALLY INSULATED WITH 1/2 IN. ALUMINUM FOIL BACKED FIBERGLASS. ONE SLOT PATTERN CONTROLLERS SET AT VERTICAL ADJUSTMENT. PROVIDE WITH END CAPS. PROVIDE WITH HANGER WIRES FOR PLENUM SLOT.
3. 1" SLOT WIDTH, 2-SLOT, INTEGRAL PLENUMS (LOW PROFILE OF 8-9/16" HIGH) SHALL BE EQUIPPED WITH A SIDE INLET COLLAR AND SHALL BE INTERNAL INSULATED WITH FIBER FREE FOAM INSULATION. TWO SLOT PATTERN CONTROLLERS SET AT ONE VERTICAL ADJUSTMENT AND ONE HORIZONTAL ADJUSTMENT. PROVIDE WITH NO END CAPS IN MIDDLE SECTION, ONLY AT ENDS. PROVIDE WITH HANGER WIRES FOR PLENUM SLOT.
4. 3/4" BLADE SPACING, DOUBLE DEFLECTION, CABLE OPERATOR AIR SCOOP, EXTRUDED CURVED FRAME TO MATCH DUCT RADIUS.
5. CONNECTION INLET SIZE OF 7"x4" FLAT OVAL.
6. CONNECTION INLET SIZE OF 10-1/8"x4" FLAT OVAL.
7. MANUFACTURER'S 'RAC' RETURN AIR CANOPY WITH FIBERGLASS ACOUSTIC MEDIA AND 26 GA. GALVANNEAL MATERIAL WITH BLACK POWDER COAT FINISH SHALL BE INSTALLED ON AIR DEVICE.
8. 3/4" BLADE SPACING, DOUBLE DEFLECTION, 22.5 DEGREE DEFLECTION, 1-1/4" FLAT FRAM, TYPE 'A' COUNTERSUNK FASTENING.
9. 1/2" BLADE SPACING, 45 DEGREE DEFLECTION, 1-1/4" FLAT FRAME, TYPE 'A' COUNTERSUNK FASTENING.
10. 3/4" BLADE SPACING, DOUBLE DEFLECTION, 45 DEGREE DEFLECTION, 1-1/4" FLAT FRAME, TYPE 'A' COUNTERSUNK FASTENING.
11. STANDARD CONSTRUCTION IS STEEL PLENUM AND ALUMINUM FACE WITH ICE TONG PATTERN CONTROLLER.
12. PROVIDE WITH 1-1/4" FLAT FRAME AND 1/2" x 1/2" CORE.
13. PRESS CORE STYLE '16A' WITH 1/8" BAR THICKNESS, 1/4" BLADE SPACING, 15 DEGREE DEFLECTION, BORDER FRAME AND FASTENING SHALL BE COMPLIANCE FOR "CPF" CONCEALED PLASTER FRAMING.
14. PRESS CORE STYLE '16A' WITH 1/8" BAR THICKNESS, 1/4" BLADE SPACING, 15 DEGREE DEFLECTION, BORDER 1250F WITH 1-1/4" FRAME AND X-Y END CONDITION, COUNTERSUNK SCREW MOUNTING.
15. PRESS CORE STYLE '16A' WITH 1/8" BAR THICKNESS, 1/4" BLADE SPACING, 15 DEGREE DEFLECTION, BORDER 1250F WITH 1-1/4" FRAME AND Y-Y END CONDITION, COUNTERSUNK SCREW MOUNTING. APPEARANCE SHALL BE OF 12'-0" TOTAL CONTINUOUS LENGTH. FRAMING SHALL BE CONSTRUCTED WITH NO INTERMEDIATE STUDS SHOWING BEHIND, ALL SURFACES BEYOND GRILLE SHALL BE PAINTED BLACK.
16. PROVIDE WITH MANUFACTURER'S "DV1" ALUMINUM DIRECTIONAL VANES, ORIENTATED VANES TOWARDS PERIMETER GLASS. 1" SPACING. BORDER SHALL BE 3/4" FLAT FACE BORDER FRAME STYLE "500".
17. PROVIDE WITH MANUFACTURER'S ALIGNMENT PINS FOR JOINING/ALIGNING MULTIPLE SECTIONS FOR CONTNOUS LENGTH GRILLE. NON-ACTIVE SECTIONS SHALL HAVE BLANK-OFF SECTIONS.

MATERIAL
AL - ALUMINUM
ST - STEEL
PL - PLASTIC
SP - SPECIAL (BY NOTE)
SS - STAINLESS STEEL

ACCESSORIES
AF - ANGLE FRAME
AS - AIR SCOOP
BB - BLANK-OFF BAFFLE
BS - BIRDSCREEN
CN - CENTER NOTCH
CPF - CONCEAL PLASTER FRAME
EP - ALUMINUM EXTENSION PANEL
PC - PATTERN CONTROL
RC - REMOVABLE CORE
SRA - SQUARE TO ROUND ADAPTER
VC - VOLUME CONTROL

FINISH
CA - CLEAR ANNODIZED
BLK - POWDER COAT BLACK
BWE - BAKED WHITE ENAMEL
ENL - BAKED ENAMEL, COLOR BY ARCHITECT
PC - PRIME COAT, MATCH WALL COLOR
SP - SPECIAL (BY NOTE)
STD - STANDARD

FAN SCHEDULE

UNIT NO.	BASIS OF DESIGN		SERVES	TYPE	INLET SONES	CFM	ESP (IN. WC)	FAN RPM	DRIVE TYPE	HEATING CAPACITY	ELECTRICAL CHARACTERISTICS					ACCESSORIES	WEIGHT (LBS)	NOTES
	MANUFACTURER	MODEL									BHP	HP	V/PH/HZ	MCA	MOP			
EF 01	GREENHECK	G-090-VG	HEADQUARTERS BLDG	CENTRIFUGAL	6.5	450	0.410	1439	DIRECT	-	0.06	1/10	115/60/1	1.9	15	BD, DS, RC	41	1
EF 02	GREENHECK	CSP-A250	HEADQUARTERS BLDG	INLINE	1.3	150	0.250	760	DIRECT	-	0.01	27 WATTS	115/60/1	0.7	15	DS, VI	23	1
EF 03	GREENHECK	SQ-7-M1-VG	HEADQUARTERS BLDG	INLINE	3.5	225	0.250	1329	DIRECT	-	0.02	1/15	115/60/1	1.6	15	DS, VI	34	1
EF 04	GREENHECK	SQ-95-VG	MAINTENANCE BLDG	INLINE	8.4	500	0.500	1595	DIRECT	-	0.11	1/6	115/60/1	3.5	15	DS, VI	34	1
EF 05	GREENHECK	SQ-90-VG	MAINTENANCE BLDG	INLINE	7.5	340	0.500	1565	DIRECT	-	0.07	1/6	115/60/1	3.5	15	DS, VI	34	1
EF 06	GREENHECK	RCE3-24-606-A	MAINTENANCE BLDG	HOODED PROPELLER	36	4735	0.351	1750	DIRECT	-	0.84	1	115/60/1	20	35	BS, DS, RC	310	1
EF 07	PANASONIC	RG-Z811A	MAINTENANCE BLDG - JANITOR	CEILING	0.7	110	0.14	900	DIRECT	1600 WATTS	0.01	12 WATTS	115/60/1	0.2	20	BD, DS, IG, VI	14	2
EF 08	PANASONIC	RG-Z811A	MAINTENANCE BLDG - MECH/ELEC	CEILING	0.7	110	0.14	900	DIRECT	1600 WATTS	0.01	12 WATTS	115/60/1	0.2	20	BD, DS, IG, VI	14	3
EF 09	GREENHECK	AER-24-02-0610-VG	MAINTENANCE BLDG	SIDEWALL	6.3	670	0.25	543	DIRECT	-	0.08	1/2	115/60/1	8.2	15	DS, SC, VI	68	1, 4, 5
EF 10	GREENHECK	SQ-90-VG	MAINTENANCE PIT AREA	INLINE	6.7	230	0.5	1462	DIRECT		0.05	1/6	115/60/1	1.9	15	DS, VI	34	1, 6

NOTES:
1. FAN SHALL OPERATE CONTINUOUSLY.
2. PROVIDE WITH MESH FILTER, MANUFACTURER'S HOODED WALL CAP AND MOTION DETECTOR.
3. PROVIDE WITH MESH FILTER, MANUFACTURER'S HOODED WALL CAP. FAN SHALL OPERATE CONTINUOUSLY.
4. UNIT FRAME IS 32"W x 32" H, UNIT SHALL BE STANDARD WALL MOUNTING WITH OSHA MOTOR SIDE GUARD.
5. FAN SHALL BE INTERLOCKED WITH EF-06.
6. SPARK RESISTANT CONSTRUCTION TYPE 'A'

ACCESSORIES:
BD - GRAVITY BACKDRAFT DAMPER
BS - BIRD SCREEN
DS - DISCONNECT SWITCH
IG - INLET GRILLE
MD - MOTORIZED DAMPER
RC - ROOF CURB WITH DAMPER TRAY
SC - SOLID STATE SPEED CONTROLLER
VSC - VARIABLE SPEED CONTROLLER
VI - VIBRATION ISOLATORS

DUCT SILENCER SCHEDULE

UNIT NO.	MANUFACTURER	MODEL	CFM	SIZE (WxH) (IN)	LENGTH (IN)	MAX PRESSURE DROP (IN WC)	DYNAMIC INSERTION LOSS (DB) - OCTIVE BANDS								WEIGHT (LBS)	NOTES
							63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz		
SA 01	PRICE INDUSTRIES	ERM44/4D	2150	50x10	44	0.11	7	12	21	26	34	31	26	22	107	1, 2
SA 02	PRICE INDUSTRIES	ERM44/4D	2150	50x10	44	0.11	7	12	21	26	34	31	26	22	107	1, 2
SA 03	PRICE INDUSTRIES	XT/U	130	10x10	48	.04	13	11	17	28	39	40	32	26	16	3, 4
SA 04	PRICE INDUSTRIES	XT/U	130	10x10	48	.04	13	11	17	28	39	40	32	26	16	3, 4

NOTES:
1. ELBOW MEDIUM VELOCITY SILENCER. UNIT IS 10"W x 50"L. CENTER LINE 44" LENGTH; 18" INLET LEG WITH 36" OUTLET LEG LENGTHS. EACH ELBOW CONSIST OF (2) 10"W x 25"L COMPONENTS.
2. CONSTRUCTION NOTES: GALVANIZED, CL1 (22 GA), 22GA PERF LINER, FIBERGLASS, INLET: 2" SLIP, OUTLET: 2" SLIP.
3. "CROSS TALK U CONFIGURATION SOUND BOOTH - XTU". UNIT IS 10"W x 48"L x 7" THICK WITH 10x10 3" THICK COLLARS AT BOTH ENDS.
4. CONSTRUCTION NOTES: SATIN COAT, FIBERGLASS, NOISE REDUCTION = INSERTION LOSS + 6dB

LOUVER SCHEDULE

UNIT NO.	SERVES / SYSTEM	SIZE WxH (IN)	DEPTH (IN)	MATERIAL	FINISH	MAX CFM	FREE AREA VEL (FPM)	FREE AREA (SQ FT)	PD (IN WC)	ACCESSORIES	BASIS OF DESIGN		NOTES
											MANUFACTURER	MODEL	
L 01	MAINTENANCE FACILITY / INTAKE	34 x 60	6"	ALUMINUM	SEE NOTE 2	1,790	275	6.5	0.011	1, 2	GREENHECK	ECD-601	1, 3
L 02	MAINTENANCE FACILITY / INTAKE	34 x 60	6"	ALUMINUM	SEE NOTE 2	1,790	275	6.5	0.011	1, 2	GREENHECK	ECD-601	1, 3
L 03	MAINTENANCE FACILITY / INTAKE	34 x 60	6"	ALUMINUM	SEE NOTE 2	1,790	275	6.5	0.011	1, 2	GREENHECK	ECD-601	1, 3
L 04	MAINTENANCE FACILITY / EXHAUST	34 x 60	4"	ALUMINUM	SEE NOTE 2	500	352	1.4	0.018	1, 2	GREENHECK	ECD-401	1, 3, 4
L 05	MAINTENANCE FACILITY / EXHAUST	34 x 60	4"	ALUMINUM	SEE NOTE 2	340	341	1.0	0.017	1, 2	GREENHECK	ECD-401	1, 3, 4
L 06	MAINTENANCE FACILITY / EXHAUST	34 x 60	4"	ALUMINUM	SEE NOTE 2	670	189	3.5	0.005	1, 2	GREENHECK	ECD-401	1, 3, 4

NOTES:
1. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS.
2. PROVIDE WITH 70% KYNAR FINISH, COLOR TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.
3. LOUVER IS A COMBINATION LOUVER-DAMPER EQUIPPED WITH FACTORY MOUNTED AND ADJUSTED ELECTRIC ACTUATORS.
4. LOUVER PERFORMANCE BASED UPON ACTIVE SECTION OF LOUVER.

ACCESSORIES:
1. INSECT SCREEN
2. INTEGRAL FRAME

ELECTRIC UNIT HEATER SCHEDULE

UNIT NO.	BASIS OF DESIGN		AREA SERVED	CAPACITY (KW)	AIRFLOW (CFM)	AIR TEMP RISE (DEGF)	THROW (FT)	ELECTRICAL CHARACTERISTICS			WEIGHT (LBS)	NOTES
	MANUFACTURER	MODEL						V/PH/HZ	MCA	MOCP		
EUH 01	BERKO	HUH-520SA	FLUIDS ROOM	5.0	270	60	16	208/1/60	30.1	35	26	1, 2, 3, 4

NOTES:
1. MOUNT 8'-0" AFF.
2. PROVIDE MANUFACTURER'S 'CWB-1' COMBINATION WALL/CEILING BRACKET.
3. PROVIDE MANUFACURER'S 'SW' SUMMER-WINTER FAN SWITCH KIT.
4. PROVIDE DISCONNECT SWITCH.

ELECTRIC RADIANT HEATER SCHEDULE

UNIT NO.	BASIS OF DESIGN		AREA SERVED	LENGTH (IN.)	BTUS PER LINEAR FOOT	CAPACITY (KW)	ELECTRICAL CHARACTERISTICS			WEIGHT (LBS)	NOTES
	MANUFACTURER	MODEL					V/PH/HZ	MCA	MOP		
ERH 01	RUNTAL	EBP-208D	VESTIBULE 100	84"	500	1.02	208/1/60	6.1	15.0	70.0	1, 2, 3
ERH 02	RUNTAL	EBP-208D	VESTIBULE 100	84"	500	1.02	208/1/60	6.1	15.0	70.0	1, 2, 3

NOTES:
1. PROVIDE PEDESTAL BASE PLATE FOR ANCHORING TO FLOOR.
2. UNIT COLOR SHALL BE WHITE.
3. MULTIPLE BASEBOARDS SHALL BE WIRED IN PARALLEL WITH LINE VOLTAGE WALL THERMOSTAT.

CONDENSER SCHEDULE

UNIT NO.	BASIS OF DESIGN		AREA SERVED	REFRIGERANT TYPE	FAN QUANTITY	CAPACITY (MBH)		ELECTRICAL CHARACTERISTICS			NOTES
	MANUFACTURER	MODEL				COOLING	HEATING	V/PH/HZ	MCA	MOCP	
CU 01	LG ELECTRONICS	KUSAP316A	MAIN ELEC SERVICE ROOM	R32	1	33.0	-	208/1/60	23.0	30.0	1, 2, 3, 4, 5, 6
CU 02	LG ELECTRONICS	KUSAP316A	IT / AV ROOM	R32	1	33.0	-	208/1/60	23.0	30.0	1, 2, 3, 4, 5, 6
CU 03	AAON	CFA-004-A-A	MAINTENANCE BLDG	R-454B	1	48.0	-	208/3/60	24.0	40.0	1, 2, 3, 4, 5, 6, 7

NOTES:
1. MOUNT ON 8" RAIL WITH NEOPRENE ISOLATORS
2. COOLING BASED UPON 80 DEGF AND 67 DEGF WB INDOOR TEMPERATURE
3. LOW AMBIENT KIT WITH WIND BAFFLES TO PROVIDE COOLING TO A MINIMUM OF 0 DEGF.
4. PROVIDE WITH ALL ACCESSORIES AND CONTROLS REQUIRED FOR A COMPLE AND OPERATIONAL SYSTEM.
5. UNIT SHALL RUN IN COOLING MODE ONLY.
6. PROVIDE WITH HAIL GUARDS.
7. PROVIDE WITH DISCONNECT SWITCH.

SPLIT AIR-CONDITIONING UNIT SCHEDULE - INDOOR ONLY

UNIT NO.	BASIS OF DESIGN		AREA SERVED	CONDENSING UNIT	IREFRIGERANT TYPE	SUPPLY CFM @ HIGH SPEED	ESP (IN WC)	RATED COOLING CAPACITY (MBH)	HEATING	FILTER	ELECTRICAL CHARACTERISTICS	NOTES
	MANUFACTURER	MODEL								MERV	V/PH/HZ	
PAC 01	LG ELECTRONICS	KNSAP361A	MAIN ELEC SERVICE ROOM	CU-01	R32	883	-	33.0	-	3M MICRO	208/1/60	1, 2, 3, 4
PAC 02	LG ELECTRONICS	KNSAP361A	IT / AV ROOM	CU-02	R32	883	-	33.0	-	3M MICRO	208/1/60	1, 2, 3, 4

NOTES:
1. POWER FROM ASSOCIATED CONDENSING UNIT.
2. COOLING BASED UPON 80 DEGF AND 67 DEGF WB INDOOR TEMPERATURE
3. UNIT SHALL HAVE GRAVITY DISCHARGE CONDENSATE PIPING TO FLOOR DRAIN IN ROOM.
4. UNIT SHALL RUN IN COOLING MODE ONLY.

INTAKE HOOD SCHEDULE

UNIT NO.	BASIS OF DESIGN		HOOD LENGTH (in)	HOOD WIDTH (in)	HEIGHT (in)	THROAT SIZE (in)	THROAT VELOCITY (FPM)	THROAT AREA (SF)	MAX CFM	MAX PRESS. DROP (IN WC)	WEIGHT (LBS)	NOTES
	MANUFACTURER	MODEL										
IH 01	GREENHECK	FGI	27	28	28	14x14	316	1.4	430	0.032	62	1

NOTES:
1. PROVIDE WITH FILTERS.

PREHEAT ELECTRIC HEATER SCHEDULE

UNIT NO.	BASIS OF DESIGN		UNIT SERVED	INLET SIZE (in)	ELECTRICAL	AIRFLOW (CFM)	TEMP RISE	ELECTRICAL	ELECTRICAL CHARACTERISTICS		NOTES
	MANUFACTURER	MODEL			KW			V/PH/HZ	MCA	MOCP	
EC 01	RAYWALL	HF	AHU-01	14x14	7.5	430	55	208/3/60	26	30	1, 2, 3

NOTES:
1. PROVIDE WITH SCR CONTROLS AND TEMPERATURE SENSOR.
2. INSERT TYPE HEATER.
3. PROVIDE WITH DOOR INTERLOCK DISCONNECT.

RADIANT HEATER SCHEDULE

UNIT NO.	BASIS OF DESIGN		INPUT CAPACITY (MBH)	TUBE LENGTH (FT)	TUBE DIAMETER (IN)	ACCESSORIES	NOTES
	MANUFACTURER	MODEL					
IRH 01	ROBERT'S GORDON	CTH2V-60	60

KITCHEN EQUIPMENT - EXHAUST FAN SCHEDULE

UNIT NO.	BASIS OF DESIGN		SERVES	TYPE	INLET SONES	CFM	ESP (IN. WC)	FAN RPM	DRIVE TYPE	ELECTRICAL CHARACTERISTICS					ACCESSORIES	WEIGHT (LBS)	NOTES
	MANUFACTURER	MODEL								BHP	HP	V/PH/HZ	MCA	MOP			
KEF 01	CAPTIVEAIRE	DU85HFA	KITCHEN HOOD EXHAUST	UPBLAST	12.5	1600	1.25	1411	DIRECT	0.50	1	115/60/1	20	35		94	1

NOTES:
1. REFER TO KITCHEN/FOOD SERVICE DRAWINGS FOR ADDITIONAL INFORMATION.

KITCHEN EQUIPMENT - MAKE-UP AIR UNIT

UNIT NO.	SERVES	BASIS OF DESIGN		CFM	ESP (IN. WC)	COOLING COIL SECTION				GAS HEATING SECTION			ELECTRICAL DATA					WEIGHT (LBS)	NOTES
		MANUFACTURER	MODEL			OAT (°F) DB/WB	LAT (°F) DB/WB @ UNIT	TOTAL MBH	SENSIBLE MBH	TEMP RISE (°F)	INPUT MBH	OUTPUT MBH	V/PH/HZ	HP	FLA	MCA	MOP		
MAU 01	KITCHEN MAKEUP	CAPTIVEAIRE	CAS-HVAC1-I.100-13-4T-MPU	1125	0.5	90.8 / 79.8	72.3 / 68.3	51.2	21.7	60	100.0	81.0	208/3/60	1.0	11.96	22.9	25	1,128	1

NOTES:
1. REFER TO KITCHEN/FOOD SERVICE DRAWINGS FOR ADDITIONAL INFORMATION.

KITCHEN EQUIPMENT - KITCHEN HOOD SCHEDULE (FOR REFERENCE ONLY)

UNIT NO.	BASIS OF DESIGN		LENGTH	EXHAUST CFM	ELECTRICAL DATA		NOTES
	MANUFACTURER	MODEL			V/PH/HZ	AMPS	
KEH 01	CAPTIVEAIRE	6024 ND-2-PSP-F	8'-0"	1600	115/60/1	15.0	1

NOTES:
1. REFER TO KITCHEN/FOOD SERVICE DRAWINGS FOR ADDITIONAL INFORMATION.

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Proposed:
CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE
360/340 ECOLOGY DRIVE ST. PETERS, MO 63376

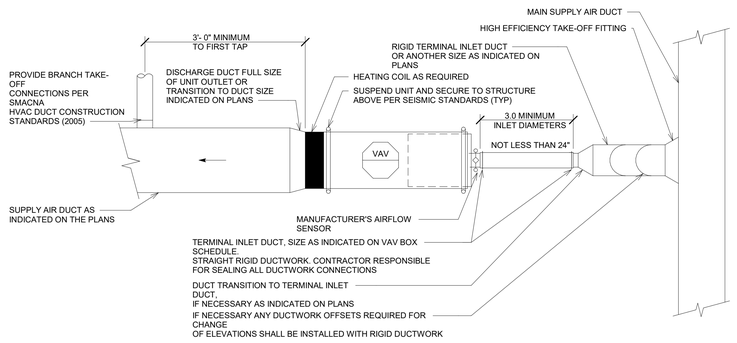
No.	Date	Revision

MECHANICAL SCHEDULES

Project No. 23121

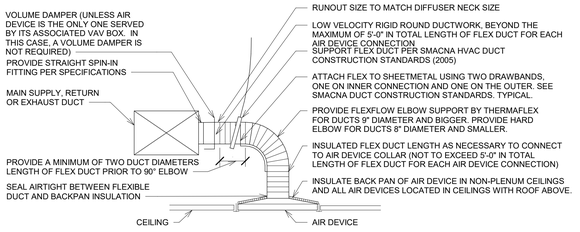
Sheet No. M003

Date 09/16/2025



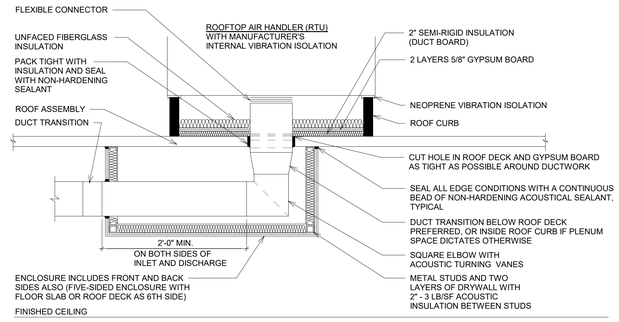
NOTE:
1. INSTALL TERMINAL UNIT PLUMB AND LEVEL WITH SERVICE SPACE FOR CONTROLS, ETC.

1 Air Terminal Unit Installation
N.T.S.

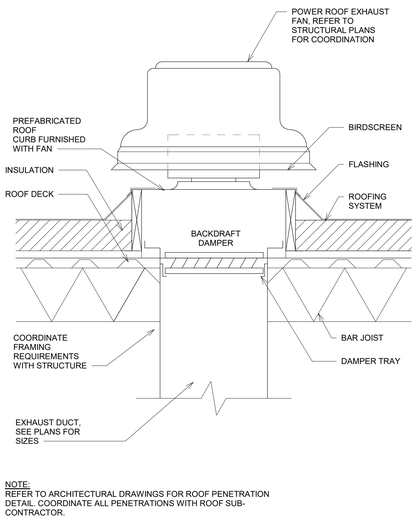


NOTE:
IF CEILING IS GYPSUM BOARD, PROVIDE OPPOSED BLADE DAMPER AT AIR DEVICE.

2 Branch Take-Off To Air Device Detail
N.T.S.

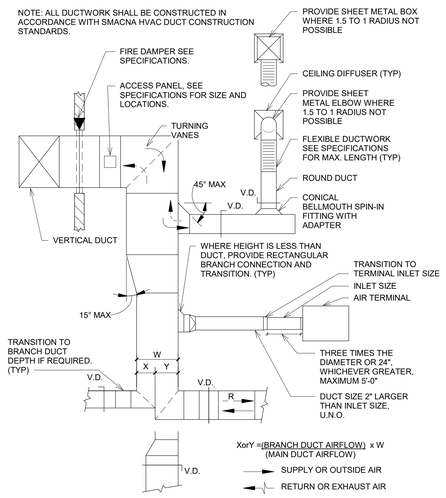


3 RTU Sound Control Penetration Detail RTU-01, 02 & 03
N.T.S.

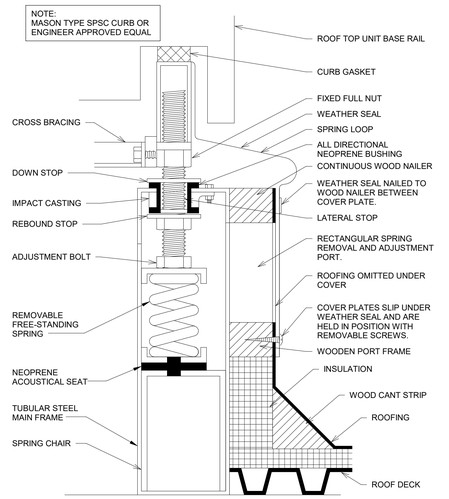


NOTE:
REFER TO ARCHITECTURAL DRAWINGS FOR ROOF PENETRATION DETAIL. COORDINATE ALL PENETRATIONS WITH ROOF SUB-CONTRACTOR.

4 Exhaust Fan Detail
N.T.S.

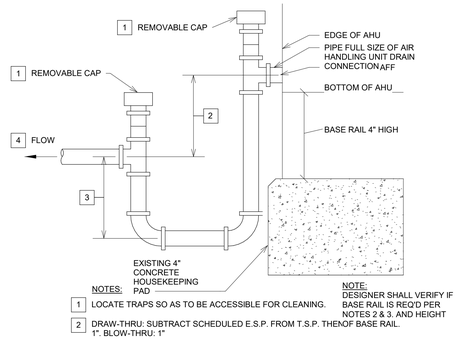


5 Typical Ductwork Installation Detail
N.T.S.



GENERAL NOTE:
1. ARCHITECTURAL ROOFING/FLASHING DETAILS HAVE PRECEDENCE OVER THIS DETAIL. PROVIDE ALL ADDITIONAL BLOCKING AS REQUIRED BY DELEGATED SEISMIC DESIGN REQUIREMENTS.

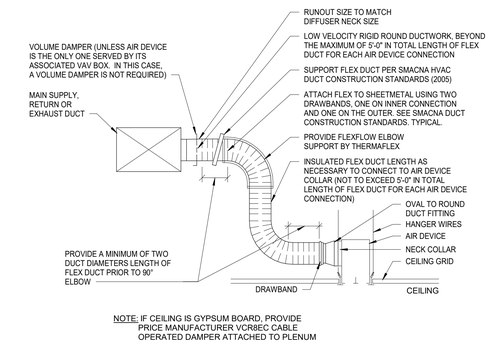
6 Rooftop Unit Curb Detail
N.T.S.



NOTES:
1. LOCATE TRAPS SO AS TO BE ACCESSIBLE FOR CLEANING.
2. DRAW-THRU: SUBTRACT SCHEDULED E.S.P. FROM T.S.P. THENOF BASE RAIL. 1". BLOW-THRU: 1"
3. DRAW-THRU: 1/2 OF NOTE 2 DIMENSION BUT NOT LESS THAN 2" BLOW-THRU: SUBTRACT SCHEDULED E.S.P. FROM T.S.P. THEN ADD 1".
4. ROUTE TO NEAREST SANITARY (FLOOR) DRAIN.

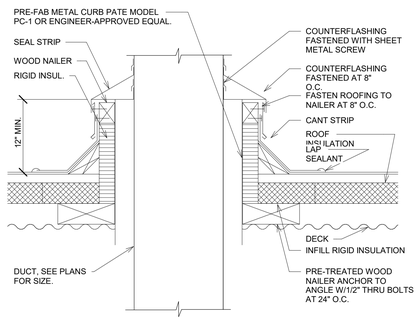
NOTE:
DESIGNER SHALL VERIFY IF BASE RAIL IS REQ'D PER NOTES 2 & 3. AND HEIGHT

7 Condensate Drain Trap Detail Floor Mounted Equipment
N.T.S.



NOTE: IF CEILING IS GYPSUM BOARD, PROVIDE PRICE MANUFACTURER VCRBEC CABLE OPERATED DAMPER ATTACHED TO PLENUM

8 Linear Diffuser Detail - Oval Neck
N.T.S.



9 Duct Through Roof Detail
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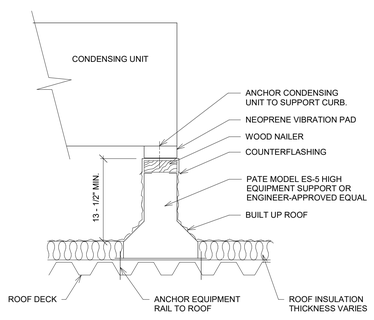
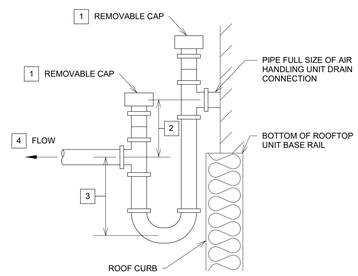


10 Equipment Rail Detail
N.T.S.



NOTES:
1. LOCATE TRAPS SO AS TO BE ACCESSIBLE FOR CLEANING.
2. DRAW-THRU: SUBTRACT SCHEDULED E.S.P. FROM T.S.P. THEN ADD 1". BLOW-THRU: 1"
3. DRAW-THRU: 1/2 OF NOTE 2 DIMENSION BUT NOT LESS THAN 2" BLOW-THRU: SUBTRACT SCHEDULED E.S.P. FROM T.S.P. THEN ADD 1".
4. ROUTE TO NEAREST ROOF DRAIN.

11 Condensate Drain Trap Detail Roof Mounted Equipment
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360/340 ECOLOGY DRIVE
ST. PETERS, MO 63376

No.	Date	Revision

MECHANICAL DETAILS

Project No.
23121

Sheet No.
M004

Date
09/16/2025

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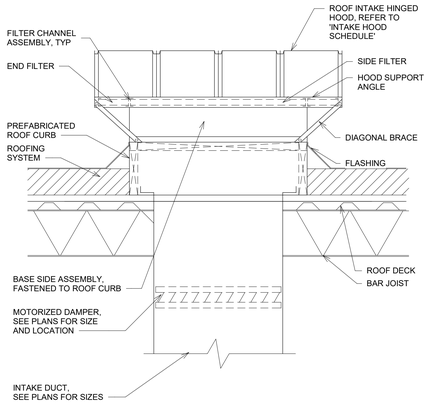
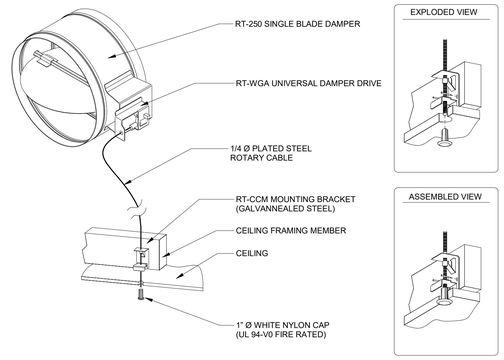


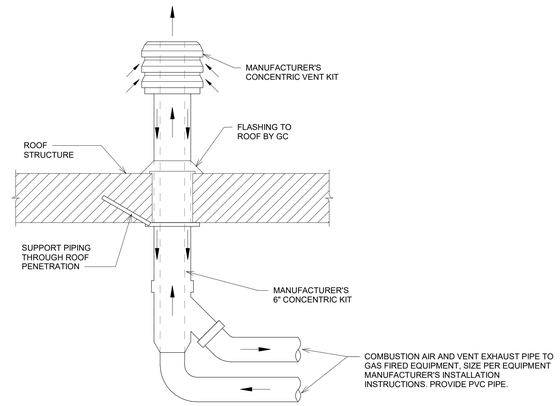
NOTE:
REFER TO ARCHITECTURAL DRAWINGS FOR ROOF PENETRATION DETAIL. COORDINATE ALL PENETRATIONS WITH ROOF SUB-CONTRACTOR. REFER TO MANUFACTURER'S GUIDELINES FOR HOOD FABRICATION AND INSTALLATION.

1 Intake Hood Installation Detail
N.T.S.



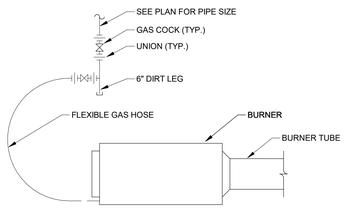
NOTE:
BASIS OF DESIGN IS 'METROPOLITAN AIR TECHNOLOGY'

2 Metropolitan Air Technology Round Damper Minature Ceiling Cup
N.T.S.

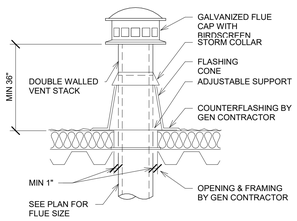


NOTE:
MINIMUM OF 10'-0" FROM ALL FRESH AIR INTAKES.

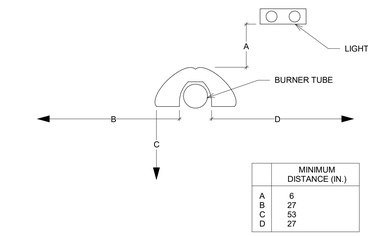
3 Vent/Combustion Air Intake Detail
N.T.S.



4 Infrared Heater Gas Piping Connection
N.T.S.



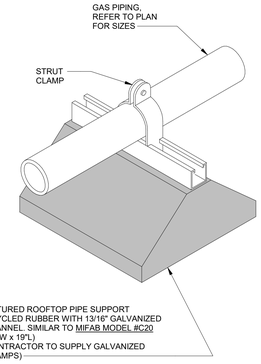
5 Flue Through The Roof Detail
N.T.S.



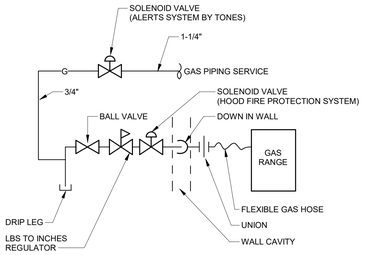
	MINIMUM DISTANCE (IN.)
A	6
B	27
C	53
D	27

NOTES:
1. DETAIL AND CLEARANCES BASED ON ROBERTS GORDON, MODEL CTH2V-40.
2. CLEARANCES B, C AND D CAN BE REDUCED BY 50% FOR LOCATIONS 25 FEET DOWNSTREAM OF BURNER.
3. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR COMPLETE INSTALLATION DETAILS.
4. COORDINATE CLEARANCES WITH OVERHEAD DOORS, LIGHT FIXTURES AND CORD REELS.

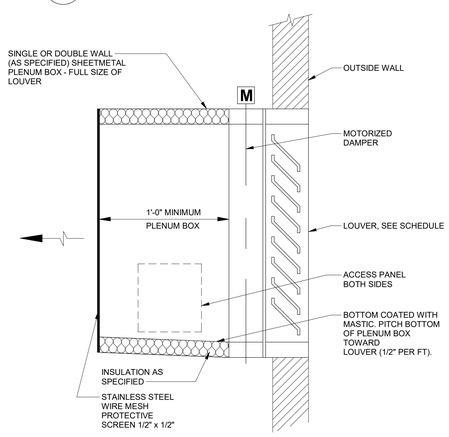
6 Infrared Heater Installation
N.T.S.



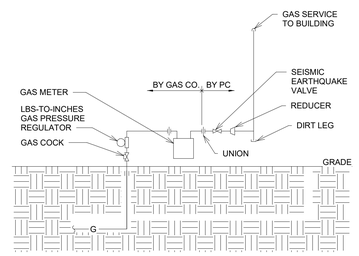
7 Gas Piping Detail
N.T.S.



8 GAS RANGE CONNECTION DETAIL
N.T.S.

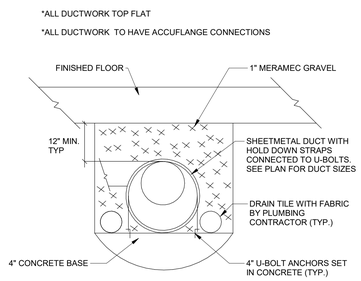


9 Louver Plenum With Motorized Damper
N.T.S.



NOTE:
SEE PLAN FOR SIZES

10 Gas Meter Detail
N.T.S.



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Project No.
23121

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M005

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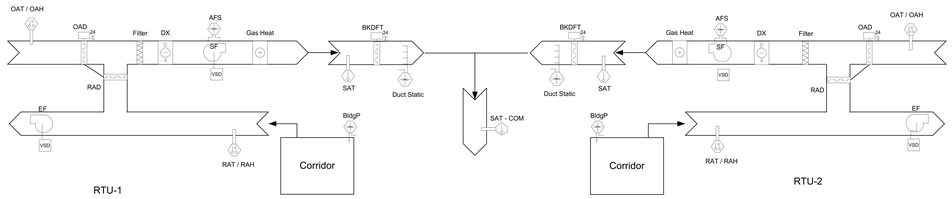
RTU-1,2 Point Map	GRAPHIC	AI	BI	AO	BO	SOFTWARE	ENUMERATED
SETPOINTS							
SUPPLY AIR COOLING SETPOINT	X					X	
SUPPLY AIR HEATING SETPOINT	X					X	
ECONOMIZER ENABLE SETPOINT	X					X	
UNOCCUPIED OFFSET SETPOINT	X					X	
DUCT STATIC SETPOINT	X					X	
BUILDING PRESSURE SETPOINT	X					X	
ECONOMIZER MINIMUM SETPOINT	X					X	
STATUS							
OCCUPANCY STATUS	X		X				
HVAC MODE	X						X
SUPPLY FAN STATUS	X		X				
SUPPLY FAN SIGNAL	X			X			
EXHAUST FAN STATUS	X		X				
EXHAUST FAN SIGNAL	X			X			
CONTROL TEMPERATURE	X	X					
SUPPLY AIR TEMPERATURE	X	X					
SPACE TEMPERATURE	X	X					
RETURN AIR TEMPERATURE	X	X					
RETURN AIR HUMIDITY	X	X					
OUTSIDE AIR TEMPERATURE	X	X					
OUTSIDE AIR HUMIDITY	X	X					
DUCT STATIC PRESSURE	X	X					
BUILDING PRESSURE	X	X					
OUTDOOR AIR DAMPER POSITION	X			X			
RETURN AIR DAMPER POSITION	X			X			
COMMON SUPPLY AIR TEMPERATURE	X	X					
REFRIGERATION STATUS							
COMPRESSOR A1 STATUS	X		X				
COMPRESSOR A1 SIGNAL	X			X			
COMPRESSOR A2 STATUS	X		X				
COMPRESSOR A1 SUCTION PRESSURE	X	X					
A1 SUCTION PRESSURE	X	X					
A1 HEAD PRESSURE	X	X					
A1 SATURATION (COIL) TEMPREATURE	X	X					
A2 HEAD PRESSURE	X	X					
CONDENSER FAN SIGNAL	X			X			
ALARMS							
AIRFLOW PROVING ALARM	X					X	
SENSOR FAILURE ALARM	X					X	
A1 COMPRESSOR ALARM	X					X	
A2 COMPRESSOR ALARM	X					X	
MECHANICAL HEATING FAILURE ALARM	X					X	
EMERGENCY SHUTDOWN ALARM	X					X	

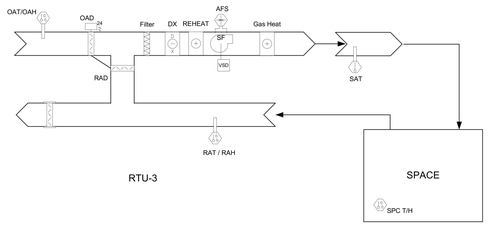
RTU-3 Point Map	GRAPHIC	AI	BI	AO	BO	SOFTWARE	ENUMERATED
SETPOINTS							
SPACE TEMPERATURE COOLING SETPOINT	X					X	
SPACE TEMPERATURE HEATING SETPOINT	X					X	
SPACE HUMIDITY LOW SETPOINT	X					X	
SPACE SETPOINT HIGH SETPOINT	X					X	
SUPPLY AIR COOLING SETPOINT	X					X	
SUPPLY AIR HEATING SETPOINT	X					X	
ECONOMIZER ENABLE SETPOINT	X					X	
UNOCCUPIED OFFSET SETPOINT	X					X	
DUCT STATIC SETPOINT	X					X	
BUILDING PRESSURE SETPOINT	X					X	
ECONOMIZER MINIMUM SETPOINT	X					X	
COIL TEMPERATURE HIGH RESET SETPOINT	X					X	
COIL TEMPERATURE LOW RESET SETPOINT	X					X	
STATUS							
OCCUPANCY STATUS	X		X				
HVAC MODE	X						X
SPACE TEMPERATURE	X	X					
SPACE HUMIDITY	X	X					
SUPPLY FAN STATUS	X		X				
SUPPLY FAN SIGNAL	X			X			
SUPPLY AIR TEMPERATURE	X	X					
RETURN AIR TEMPERATURE	X	X					
RETURN AIR HUMIDITY	X	X					
OUTSIDE AIR TEMPERATURE	X	X					
OUTSIDE AIR HUMIDITY	X	X					
OUTDOOR AIR DAMPER POSITION	X			X			
RETURN AIR DAMPER POSITION	X			X			
REFRIGERATION STATUS							
COMPRESSOR A1 STATUS	X		X				
COMPRESSOR A1 SIGNAL	X			X			
COMPRESSOR A1 SUCTION PRESSURE	X	X					
A1 SUCTION PRESSURE	X	X					
A1 HEAD PRESSURE	X	X					
A1 SATURATION (COIL) TEMPREATURE	X	X					
CONDENSER FAN SIGNAL	X			X			
ALARMS							
AIRFLOW PROVING ALARM	X					X	
SENSOR FAILURE ALARM	X					X	
A1 COMPRESSOR ALARM	X					X	
A2 COMPRESSOR ALARM	X					X	
MECHANICAL HEATING FAILURE ALARM	X					X	
EMERGENCY SHUTDOWN ALARM	X					X	

VAV BOX POINT MAP	GRAPHIC	AI	BI	AO	BO	SOFTWARE	ENUMERATED
SETPOINTS							
SPACE TEMPERATURE COOLING SETPOINT	X					X	
SPACE TEMPERATURE HEATING SETPOINT	X					X	
UNOCCUPIED SETBACK SETPOINT	X						
MAX AIRFLOW IN ALL MODES	X						
MIN AIRFLOW IN COOLING	X						
MIN AIRFLOW IN HEATING	X						
SETPOINT SLIDE ADJUST LIMIT	X						
STATUS							
OCCUPANCY STATUS	X		X				
HVAC MODE	X						X
SPACE TEMPERATURE	X	X					
BOX DISCHARGE AIR TEMPREATURE	X	X					
MAIN FAN STATUS	X					X	
BOX REHEAT ENABLE	X				X		
BOX REHEAT SIGNAL	X			X			
CURRENT AIRFLOW	X					X	
DAMPER POSITION	X			X			

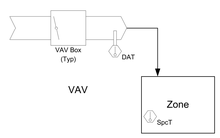


RTU-1

RTU-2



RTU-3



VAV

SEQUENCES OF OPERATION

RTU-1, RTU-2 SEQUENCE:

GENERAL SEQUENCE SUMMARY
RTU-1 AND RTU-2 SERVE COMMON DUCTWORK AND COMMON VAV BOXES. RTU-1 AND RTU-2 SHALL BE OPERATED IN A LEAD/LAG SEQUENCE. IN THE EVENT THE ACTIVE RTU CANNOT MAINTAIN DISCHARGE AIR SETPOINT FOR FULL ZONE DEMAND OR GOES INTO ALARM, THE STANDBY RTU WILL BE ENABLED.

OCCUPIED MODE
LEAD/LAG SEQUENCE: LEAD RTU SHALL SWITCH DAILY. LAG UNIT SHALL REMAIN ON STANDBY AND COME ON EITHER IF ACTIVE RTU CANNOT HANDLE COOLING/HEATING LOAD OR THE ACTIVE RTU IS IN ALARM. UPON CALL FOR OCCUPANCY, REMOTE MOTORIZED DISCHARGE AIR DAMPER IN DUCTWORK WILL OPEN AND THE END SWITCH ON ACTUATOR WILL ENABLE THE RTU SUPPLY FAN TO RUN.

SUPPLY FAN CONTROL
SUPPLY FAN ON ACTIVE RTU(S) WILL OPERATE TO MAINTAIN DUCT STATIC PRESSURE SETPOINT OF 1.5" W.C. (ADJ)

COOLING MODE
COMPRESSORS WILL MODULATE/STAGE UP OR DOWN TO MAINTAIN SUPPLY AIR TEMPERATURE SETPOINT OF 52°F (ADJ). IF THE ACTIVE RTU REACHES 100% CAPACITY AND CANNOT REACH DISCHARGE AIR TEMPERATURE SETPOINT, STANDBY RTU SHALL BE ENABLED TO SUPPLEMENT.

ECONOMIZER OPERATION
IF THE OUTDOOR ENTHALPY IS BELOW THE COMPARATIVE ECONOMIZER ENABLE SETPOINT, AND THE OUTDOOR ENTHALPY IS LESS THAN THE RETURN AIR ENTHALPY, THEN ECONOMIZER OPERATION WILL BE ENABLED TO ACT AS THE FIRST STAGE OF COOLING.

HEATING MODE
GAS HEAT SHALL MODULATE TO MAINTAIN DISCHARGE AIR SETPOINT (55°F) WHEN OUTSIDE AIR TEMPERATURE FALLS BELOW HEATING ENABLE SETPOINT. IF THE ACTIVE RTU REACHES 100% HEATING CAPACITY AND CANNOT REACH DISCHARGE AIR TEMPERATURE SETPOINT, STANDBY RTU SHALL BE ENABLED TO SUPPLEMENT THE LOAD.

BUILDING PRESSURE CONTROL
EXHAUST FAN SHALL MODULATE TO MAINTAIN BUILDING PRESSURE SETPOINT OF 0.02" W.C. (ADJ). PRESSURE DIFFERENTIAL SHALL BE MEASURED BETWEEN CORRIDOR OR LOBBY AND OUTSIDE.

UNOCCUPIED MODE
OUTSIDE OF SCHEDULED TIME PERIODS, THE UNIT SHALL OPERATE TO MAINTAIN UNOCCUPIED SPACE TEMPERATURE VALUES +/-5° FROM OCCUPIED COOLING/HEATING SETPOINTS

RTU-3 SEQUENCE:

GENERAL SEQUENCE SUMMARY
RTU-3 SERVES A SINGLE-ZONE AND SHALL BE SET UP FOR SINGLE-ZONE VAV CONTROL

OCCUPIED MODE

OCCUPANCY: BASED ON OWNERS SCHEDULE AT BAS OR FORCED OVERRIDE AT THE SPACE SENSOR

SUPPLY FAN CONTROL
SUPPLY FAN WILL MODULATE TO MAINTAIN SPACE TEMPERATURE SETPOINT

COOLING MODE
WHEN SPACE TEMPERATURE RISES ABOVE COOLING ENABLE SETPOINT OF 75°F (ADJ), COOLING MODE SHALL BE ENABLED. COMPRESSORS WILL MODULATE/STAGE UP OR DOWN TO MAINTAIN SUPPLY AIR TEMPERATURE SETPOINT OF 52°F (ADJ).

ECONOMIZER OPERATION
IF THE OUTDOOR ENTHALPY IS BELOW THE COMPARATIVE ECONOMIZER ENABLE SETPOINT, AND THE OUTDOOR ENTHALPY IS LESS THAN THE RETURN AIR ENTHALPY, THEN ECONOMIZER OPERATION WILL BE ENABLED TO ACT AS THE FIRST STAGE OF COOLING.

DEHUMIDIFICATION MODE
COMPRESSORS WILL MODULATE/STAGE UP OR DOWN TO MAINTAIN COIL TEMPERATURE SETPOINT. COIL TEMPERATURE SETPOINT SHALL RESET BETWEEN 40°F-45°F DEPENDING SPACE DEWPOINT 50°-55° (ADJ). DURING DEHUMIDIFICATION MODE, THE HOT GAS REHEAT VALVE SHALL MODULATE TO MAINTAIN DISCHARGE AIR SETPOINT.

VENT MODE
VENT MODE IS ENABLED WHEN SPACE TEMPERATURE FALLS BETWEEN COOLING AND HEATING ENABLE SETPOINTS. DEHUMIDIFICATION MODE SHALL BE ENABLED IF SPACE DEWPOINT CALLS FOR DEHUMIDIFICATION. IN THIS VENT REHEAT MODE, THE REHEAT VALVE SHALL OPEN TO MAINTAIN DISCHARGE AIR SETPOINT WHICH IS AVERAGE VALUE OF COOLING AND HEATING ENABLE SETPOINTS.

HEATING MODE
WHEN SPACE TEMPERATURE FALLS BELOW HEATING MODE ENABLE SETPOINT, HEATING MODE SHALL BE ENABLED. THE GAS BURNER SHALL MODULATE TO MAINTAIN HEATING DISCHARGE AIR TEMPERATURE SETPOINT 95°F (ADJ)

BUILDING PRESSURE CONTROL
EXHAUST FAN SHALL MODULATE TO MAINTAIN BUILDING PRESSURE SETPOINT OF 0.02" W.C. (ADJ). PRESSURE DIFFERENTIAL SHALL BE MEASURED BETWEEN SPACE AND OUTSIDE.

UNOCCUPIED MODE
OUTSIDE OF SCHEDULED TIME PERIODS, THE UNIT SHALL OPERATE TO MAINTAIN UNOCCUPIED SPACE TEMPERATURE VALUES WHICH ARE +/-5° FROM OCCUPIED COOLING/HEATING SETPOINTS

VAV BOXES:

OCCUPIED MODE

COOLING MODE
VAV BOX DAMPER SHALL MODULATE BETWEEN MIN AND MAX CFM TO MAINTAIN ZONE COOLING TEMPERATURE SETPOINT 75°F (ADJ)

HEATING MODE
VAV BOX DAMPER SHALL OPEN TO HEATING MINIMUM POSITION AND MODULATE SCR REHEAT TO MAINTAIN ZONE HEATING TEMPERATURE SETPOINT 70° (ADJ)

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ST. PETERS, MO 63376

No.	Date	Revision

MECHANICAL SEQUENCES

Project No.
23121

Sheet No.
M006

Date
09/16/2025

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PLUMBING

AV	ACID RESISTANT VENT
AW	ACID RESISTANT WASTE LINE
DIR	DEIONIZED WATER RETURN PIPING
DIS	DEIONIZED WATER SUPPLY PIPING
DCW	DOMESTIC COLD WATER (DCW)
DHW	DOMESTIC HOT WATER (DHW)
DHWR	DOMESTIC HOT WATER RETURN (DHWR)
SCW	DOMESTIC SOFT COLD WATER
GW	GREASE WASTE
D	INDIRECT DRAIN OR CONDENSATE
DT	DRAIN TILE
G	NATURAL GAS
NP	NON POTABLE WATER
OD	OVERFLOW DRAIN
LP	PROPANE (PSI)
RO	REVERSE OSMOSIS WATER
SS	SANITARY PIPING
SD	STORM DRAIN
TW	TEMPERED WATER
TWR	TEMPERED WATER RECIRCULATING
V	VENT (V)
	AUTOMATIC AIR VENT
	BACKFLOW PREVENTER
	CHECK VALVE
	BALANCING VALVE (CIRCUIT SETTER)
	FLOW ARROW/DIRECTION
	FLOW CONTROL VALVE
	GLOBE VALVE
	PRESSURE GAUGE AND COCK
	PRESSURE REDUCING VALVE
	PRESSURE REGULATOR
	REDUCER
	SHOCK ABSORBER/WATER HAMMER ARRESTOR
OR	SHUT OFF VALVE
	SOLENOID VALVE
	STRAINER
	TEMP & PRESSURE RELIEF VALVE
	TEST PLUG
	THERMOMETER
	UNION (DIELECTRIC)
	(DASHED) INDICATED PIPING TO BE REMOVED
	CONNECTION TO EXISTING
EQ #	EQUIPMENT NUMBER
P 1	INDICATES PLUMBING RISER
1	KITCHEN EQUIPMENT NUMBER
1	REVISION DELTA
#	KEYED NOTE
#	KEYED DEMOLITION NOTE
	ELBOW DOWN
	ELBOW UP
	TEE DOWN
	TEE UP
	FLOOR DRAIN

ABBREVIATIONS

AD	AREA DRAIN
ADA	AMERICANS WITH DISABILITIES ACT COMPLIANT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISH GRADE
AP	ACCESS PANEL
AV	ACID RESISTANT VENT
AVTR	ACID RESISTANT VENT THRU ROOF
AW	ACID RESISTANT WASTE
BFG	BELOW FINISHED GRADE
BGB	BOTTOM OF GRADE BEAM
BM	BEAM
BOB	BOTTOM OF BEAM
BOD	BOTTOM OF DUCT
BOF	BOTTOM OF FOOTING
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF SLAB
BOW	BOTTOM OF WALL
BOT	BOTTOM
BT	BATHTUB
CL	CENTERLINE
CI	CAST IRON
CO	CLEANOUT
CV	CHECK VALVE
DCW	DOMESTIC COLD WATER
DD	DECK DRAIN
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
DI	DUCTILE IRON
DIA	DIAMETER
DIR	DEIONIZED WATER RETURN
DIS	DEIONIZED WATER SUPPLY
DN	DOWN
DR	DRAIN
DS	DOWNSPOUT
DTL	DETAIL
DWG(S)	DRAWING(S)
DWR	DISTILLED WATER RETURN
DWS	DISTILLED WATER SUPPLY
EC	ELECTRICAL CONTRACTOR - DIVISION 26
ELEC	ELECTRIC
ELEV	ELEVATION
EQ	EQUAL
EXIST, EX	EXISTING
FA	FROM ABOVE
FB	FROM BELOW
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FDV	FIRE DEPARTMENT VALVE
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHV	FIRE HOSE VALVE
FIN	FINISHED
FS	FLOOR / FIRE LINE
FP	FIRE PUMP
FPC	FIRE PROTECTION CONTRACTOR - DIVISION 21
FS	FLOOR SINK
FT	FEET
FT-HD	FEET IN HEAD
FVC	FIRE VALVE CABINET
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GB	GRADE BEAM
GC	GENERAL CONTRACTOR
GCO	GRADE CLEANOUT
GPM	GALLONS PER MINUTE
H	HEIGHT
HB	HOSE BIBB
HD	HUB DRAIN
HE	HOSE END

ABBREVIATIONS

HORIZ	HORIZONTAL
HP	HORSEPOWER
HT	HOUSE TRAP
HW	HOT WATER
HWR	HOT WATER RETURN
HZ	HERTZ
IN	INCH/INCHES
IE	INVERT ELEVATION
INV	INVERT
JP	JOCKEY PUMP
L	LENGTH
LVL	LEVEL
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR - DIVISION 23
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OAI	OUTSIDE AIR INTAKE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED / CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED / OWNER INSTALLED
PC	PLUMBING CONTRACTOR - DIVISION 22
PH	PHASE
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSI	PSI ABSOLUTE
PSIA	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE IN GAUGE
QTY	QUANTITY
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
SA	SHOCK ABSORBER
SAN	SANITARY
SF	SQUARE FOOT
SHT	SHEET
SOL	SOLENOID
SP	STANDPIPE
SQ	SQUARE
STL	STEEL
STR	SOIL STACK THRU ROOF
SW	STREET WASHER
T&P	TEMPERATURE & PRESSURE
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPERATURE
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOS	TOP OF SLAB
TOT	TOTAL
TPC	TOP OF PIER CAP
TW	TEMPERED WATER
TYP	TYPICAL
VL	VALVE
VB	VACUUM BREAKER
V	VENT
VTR	VENT THRU ROOF
VERT	VERTICAL
VCP	VITREOUS CLAY PIPE
VOL	VOLUME
W/O	WALL CLEAN OUT
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTOR
WT	WEIGHT
W/O	WITH / WITHOUT
YD	YARD DRAIN

GENERAL NOTES:

1. BECAUSE OF THE LIMITED SPACE AVAILABLE TO INSTALL ALL OF THE PLUMBING WORK, COORDINATION BETWEEN OTHER TRADES IS OF THE UTMOST IMPORTANCE.
2. DRAWINGS INDICATE THE GENERAL LOCATION AND ARRANGEMENT OF FIXTURES, EQUIPMENT AND PIPING SYSTEMS. LOCATION AND ARRANGEMENT OF PIPING LAYOUT TAKE INTO ACCOUNT MANY DESIGN CONSIDERATIONS, SO FAR AS PRACTICAL, INSTALL PIPING AS INDICATED. THE CONTRACTOR SHALL REPORT, IN WRITING, ANY DISCREPANCIES WHICH PREVENT THE INSTALLATION OF WORK AS SHOWN.
3. THE CONTRACTOR SHALL VISIT THE PROJECT SITE, AND VERIFY LOCATIONS, ELEVATIONS AND SIZES OF ALL UTILITIES AT SITE PRIOR TO PROCEEDING WITH WORK. EXISTING SYSTEMS AND STRUCTURE SHALL BE INVESTIGATED FOR BEST POSSIBLE ROUTING OF PLUMBING PIPING.
4. IF THE CONTRACTOR DOES NOT CLEARLY UNDERSTAND THESE PLANS OR IS NOT COMPLETELY SURE OF THEIR MEANING, THE CONTRACTOR SHALL OBTAIN THE ENGINEERS WRITTEN EXPLANATION AND/OR INTERPRETATION PRIOR TO SUBMITTING BIDS, SINCE THIS CONTRACTOR WILL BE HELD RIGIDLY TO THE INTERPRETATION OF THE ENGINEER.

ANCHORAGE AND SWAY BRACING FOR PLUMBING COMPONENTS RELATED TO SEISMIC LOAD RESISTANCE

OCCUPANCY CATEGORY (II) — **SEISMIC DESIGN CATEGORY (C)**

LISTING OF EQUIPMENT & SYSTEM COMPONENTS	ANCHORAGE TO FLOORS, ROOF, ETC.		SWAY BRACING		LOCATION OF PROFESSIONALLY-SEALED ANCHORAGE AND SWAY BRACING DETAILS		COMMENTS
					ON CONSTRUCTION DOCUMENTS	SUBSEQUENT SUBMITTAL SEPARATE PERMIT AND PLANS	
	NOT PROVIDED	PROVIDED	NOT PROVIDED	PROVIDED	DRAWING NO. OR SPEC. SECTION		
OTHER GENERAL EQUIPMENT & SYSTEM COMPONENTS Ip=1.0							
WASTE PIPING	X		X				
VENT PIPING	X		X				
WATER PIPING	X		X				
STORM PIPING	X		X				
FLOOR MOUNTED: WATER HEATER > 400 LBS		X		X			
FLOOR MOUNTED: WATER HEATER <= 400 LBS	X		X				

EXPLANATORY NOTES:
1. PLANS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF THIS PROJECT ALONG WITH A SEPARATE PERMIT APPLICATION NEED TO BE SUBMITTED TO THE AHJ A MINIMUM OF TWO WEEKS PRIOR TO THE PLANNED INSTALLATION TO ALLOW FOR PLAN REVIEW AND DISTRIBUTION TO THE INSPECTOR. ADDITIONAL TIME MAY BE NEEDED IF SUCH SUBMISSIONS ARE DEFICIENT.
2. SWAY BRACING REQUIRED FOR ITEMS SUSPENDED FROM STRUCTURE, UNLESS EXEMPT.
3. ANCHORAGE & BRACING CONTRACTOR SHALL REFER TO SPECIFICATIONS ON SEISMIC ANCHORAGE & SWAY BRACING.
4. ALL SEISMIC SHOP DRAWINGS SHALL BE REVIEWED BY THE ENGINEER OF RECORD PRIOR TO SUBMITTAL TO THE CODE REVIEWER.
5. CONTRACTOR SHALL ADHERE TO REQUIREMENTS FOR EXEMPTION, WHERE NOTED, OR PROVIDE SEISMIC BRACING DESIGNED BY A QUALIFIED ENGINEER LICENSED IN THE PROJECT'S STATE.

EXEMPTION NOTES:
1. SEISMIC DESIGN CATEGORY B - ASCE 7-22 TABLE 13.1-1
2. SEISMIC DESIGN CATEGORY C, THE COMPONENT IMPORTANCE FACTOR Ip=1.0, AND THE COMPONENT IS POSITIVELY ATTACHED TO THE STRUCTURE. ASCE 7-22 TABLE 13.1-1.
3. SEISMIC DESIGN CATEGORY C, D, E, OR F AND THE COMPONENT WEIGHS 20 LBS OR LESS. ASCE 7-22 TABLE 13.1-1
4. SEISMIC DESIGN CATEGORY D, E, OR F, AND THE COMPONENT IMPORTANCE FACTOR Ip = 1.0, AND THE CENTER OF MASS IS 4 FT OR LESS ABOVE THE FLOOR, AND THE COMPONENT WEIGHS 400LBS OR LESS, AND FLEXIBLE CONNECTIONS ARE PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. ASCE 7-22 TABLE 13.1-1.
5. SEISMIC DESIGN CATEGORY D, E, OR F, AND THE COMPONENT IMPORTANCE FACTOR Ip = 1.0, AND FOR DISTRIBUTION SYSTEMS THE OPERATING WEIGHT OF THE SYSTEM IS 5LB/FT OR LESS. ASCE 7-22 TABLE 13.1-1.
6. PIPING SYSTEMS WHERE FLEXIBLE CONNECTIONS, EXPANSION LOOPS, OR OTHER ASSEMBLIES ARE PROVIDED TO ACCOMMODATE THE RELATIVE DISPLACEMENT BETWEEN COMPONENT AND PIPING, WHERE THE PIPING SYSTEM IS POSITIVELY ATTACHED TO THE STRUCTURE, AND WHERE ONE OF THE FOLLOWING APPLY (ASCE 7-22 SECTION 13.6.7.3):
   - 6.1 TRAPEZE ASSEMBLIES ARE SUPPORTED BY 0.375 IN. (10 MM) DIAMETER ROD HANGERS NOT EXCEEDING 12 IN. (305 MM) IN LENGTH FROM THE PIPE SUPPORT POINT TO THE CONNECTION AT THE GREATER SUPPORTING STRUCTURE, DO NOT SUPPORT PIPING WITH I P THAN 1.0, NO SINGLE PIPE EXCEEDS THE LIMITS SET FORTH IN ITEMS 6.4A, 6.4B, OR 6.4C BELOW, AND THE TOTAL WEIGHT SUPPORTED BY ANY SINGLE TRAPEZE IS 100 LB (445 N) OR LESS;
   - 6.2 TRAPEZE ASSEMBLIES ARE SUPPORTED BY 0.5 IN. (13 MM) DIAMETER ROD HANGERS NOT EXCEEDING 12 IN. (305 MM) IN LENGTH FROM THE PIPE SUPPORT POINT TO THE CONNECTION AT THE SUPPORTING STRUCTURE, DO NOT SUPPORT PIPING WITH I P GREATER THAN 1.0, NO SINGLE PIPE EXCEEDS THE DIAMETER LIMITS SET FORTH IN ITEMS 6.4A, 6.4B, OR 6.4C BELOW, AND THE TOTAL WEIGHT SUPPORTED BY ANY SINGLE TRAPEZE IS 200 LB (890 N) OR LESS;
   - 6.3 TRAPEZE ASSEMBLIES ARE SUPPORTED BY 0.5 IN. (13 MM) DIAMETER ROD HANGERS NOT EXCEEDING 24 IN. (610 MM) IN LENGTH FROM THE PIPE SUPPORT POINT TO THE CONNECTION AT THE GREATER SUPPORTING STRUCTURE, DO NOT SUPPORT PIPING WITH I P THAN 1.0, NO SINGLE PIPE EXCEEDS THE DIAMETER LIMITS SET FORTH IN ITEMS 6.4A, 6.4B, OR 6.4C BELOW, AND THE TOTAL WEIGHT SUPPORTED BY ANY SINGLE TRAPEZE IS 100 LB (445 N) OR LESS;
   - 6.4 PIPING IS SUPPORTED BY ROD HANGERS AND PROVISIONS ARE MADE TO AVOID IMPACT WITH OTHER STRUCTURAL OR NONSTRUCTURAL COMPONENTS OR TO PROTECT THE PIPING IN THE EVENT OF SUCH IMPACT; OR PIPES ARE SUPPORTED BY INDIVIDUAL ROD HANGERS 0.375 IN. (10 MM) OR 0.5 IN. (13 MM) IN DIAMETER, WHERE EACH HANGER IN THE PIPE RUN IS 12 IN. (305 MM) OR LESS IN LENGTH FROM THE PIPE SUPPORT POINT TO THE CONNECTION AT THE SUPPORTING STRUCTURE, AND THE TOTAL WEIGHT SUPPORTED BY ANY SINGLE HANGER IS 50 LB (220 N) OR LESS. IN ADDITION, THE FOLLOWING LIMITATIONS ON THE SIZE OF PIPING SHALL BE OBSERVED:
     - (A) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C WHERE Ip IS GREATER THAN 1.0, THE NOMINAL PIPE SIZE SHALL P BE 2 IN. (50 MM) OR LESS.
     - (B) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY D, E, OR F WHERE Ip IS GREATER THAN 1.0, THE NOMINAL PIPE P SIZE SHALL BE 1 IN. (25 MM) OR LESS.
     - (C) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY D, E, OR F WHERE Ip IS 1.0, THE NOMINAL PIPE SIZE SHALL BE 3 P IN. (80 MM) OR LESS.

PLUMBING LEGEND

NOT ALL SYMBOLS AND ABBREVIATIONS ARE USED

SCALE: 3" = 1'-0" / SCALE: 1 1/2" = 1'-0" / SCALE: 1" = 1'-0" / SCALE: 3/4" = 1'-0" / SCALE: 1/2" = 1'-0" / SCALE: 3/8" = 1'-0" / SCALE: 1/4" = 1'-0" / SCALE: 1/8" = 1'-0" / SCALE: 3/32" = 1'-0" / SCALE: 1/16" = 1'-0"

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Proposed:
CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE
380/340 ECOLOGY DRIVE
ST. PETERS, MO 63376

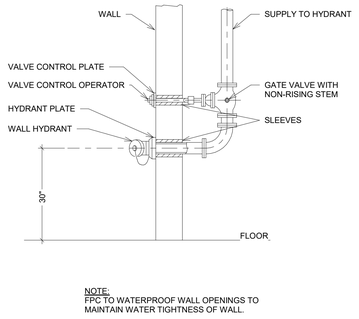
No.	Date	Revision

PLUMBING SYMBOLS AND ABBREV.

Project No. 23121

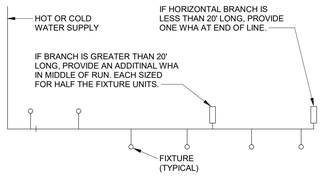
Sheet No. P001

Date 09/16/2025



NOTE:
FPC TO WATERPROOF WALL OPENINGS TO MAINTAIN WATER TIGHTNESS OF WALL.

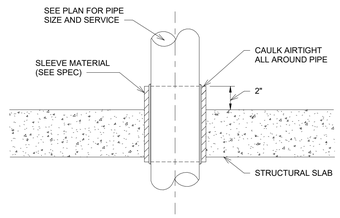
1 WALL HYDRANT DETAIL
N.T.S.



NOTE: INSTALL PER MANUFACTURER'S INSTRUCTIONS. PROVIDE A WHA AT ALL QUICK-CLOSING VALVES.

SINGLE/ DOUBLE FIXTURE		
WHA SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1-1/4"	61-113
E	1-1/2"	114-154
F	2"	154-330

2 WATER HAMMER ARRESTOR DETAIL
N.T.S.



3 SLAB PENETRATION DETAIL
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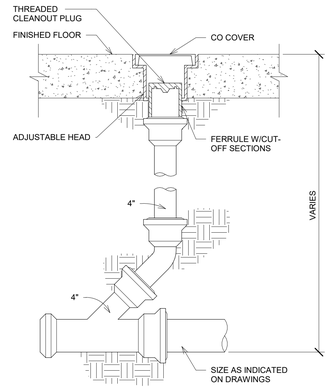
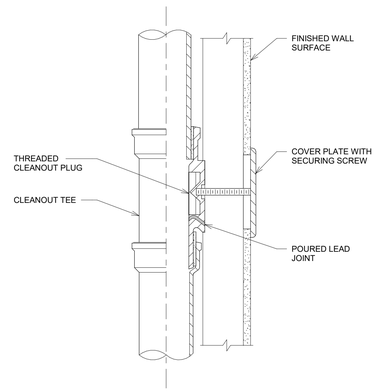


4 FLOOR CLEANOUT DETAIL
N.T.S.



5 WALL CLEANOUT DETAIL
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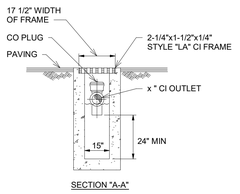
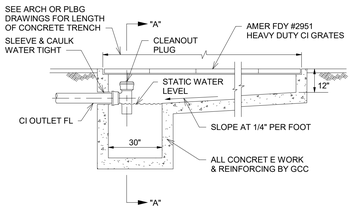
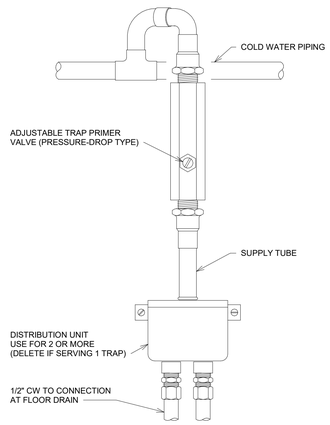


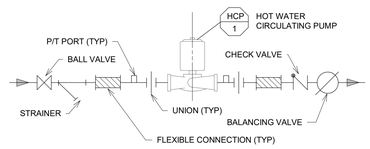
SECTION "A-A"



6 TRENCH DRAIN DETAIL
N.T.S.

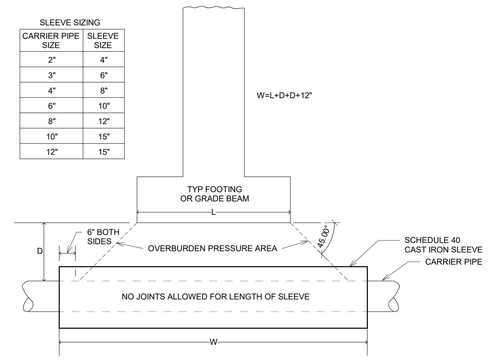


7 TRAP PRIMER PIPING DETAIL
N.T.S.

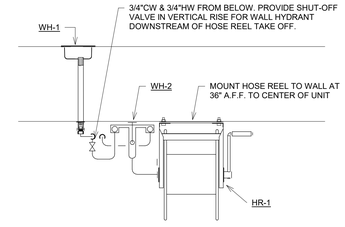


8 HOT WATER CIRCULATING PUMP DETAIL
N.T.S.

SLEEVE SIZING	
CARRIER PIPE SIZE	SLEEVE SIZE
2"	4"
3"	6"
4"	8"
6"	10"
8"	12"
10"	15"
12"	15"

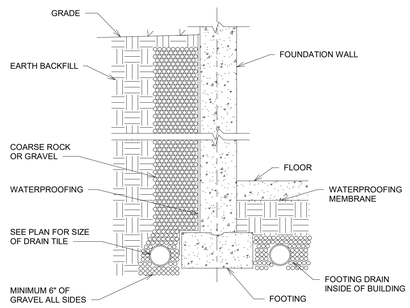


9 SLEEVE UNDER FOOTING DETAIL
N.T.S.

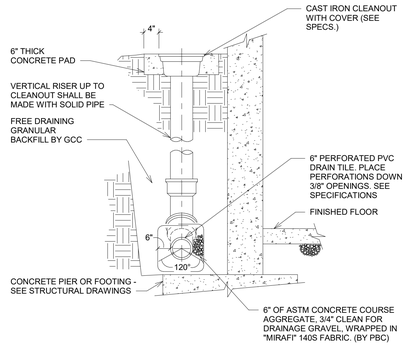


10 APPARATUS BAY HOSE REEL
N.T.S.

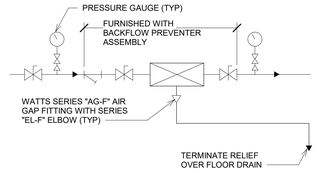
NOTE:
1. PIPE SHALL BE DOUBLE WRAPPED WITH A NON DETERIORATING FIN FILTER CLOTH OR SCREEN GAUZE SUCH AS FILTER CLOTH MIRAFI 160N FABRIC.
2. DRAIN TILE SHALL BE SCHEDULE 40 PVC PIPING WITH DRILLED HOLES FACING DOWN AND PVC SOLVENT WELDED FITTINGS.



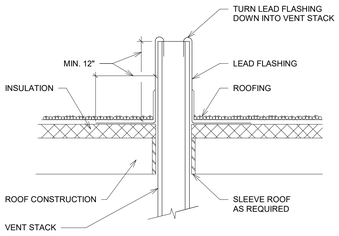
12 FOOTING DRAIN TILE DETAIL
N.T.S.



13 SUB-SOIL DRAIN AND CLEANOUT DETAIL
N.T.S.



14 BACKFLOW PREVENTER DETAIL
N.T.S.



15 VENT THRU FLAT ROOF DETAIL
N.T.S.

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PLUMBING DETAILS

Project No. 23121

Sheet No. P002

Date 09/16/2025

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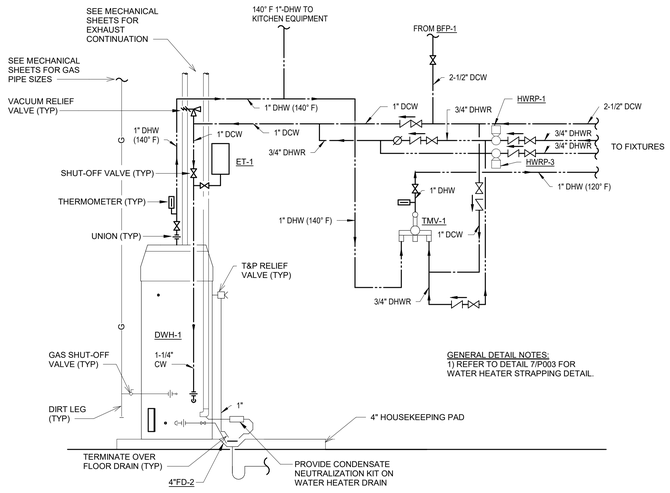
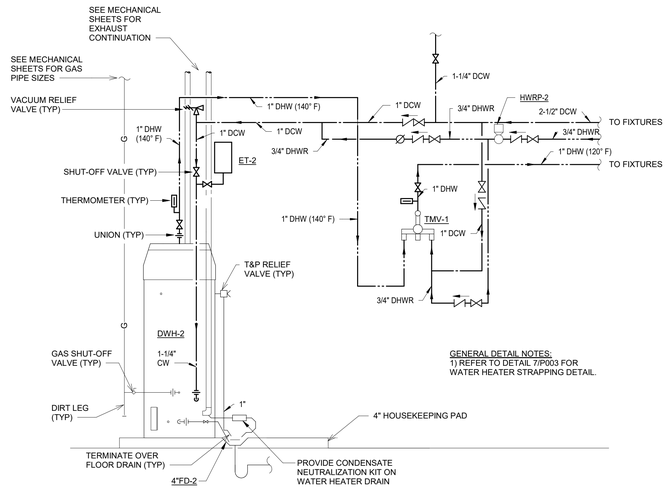


1 HQ DOMESTIC WATER HEATER PIPING DETAIL
N.T.S.



2 MAINTENANCE DOMESTIC WATER HEATER PIPING DETAIL
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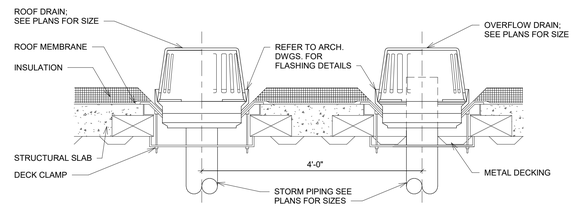
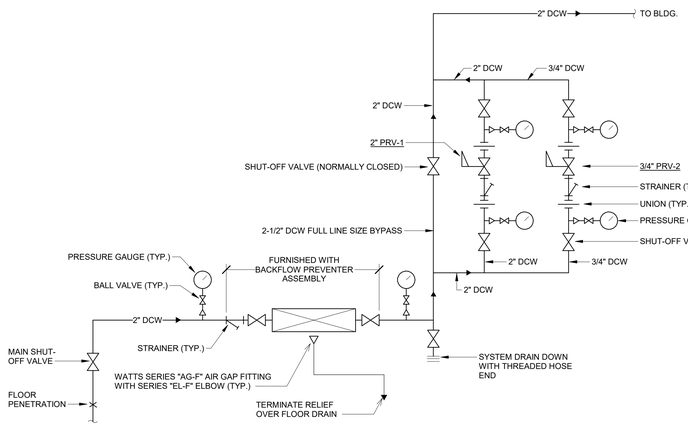
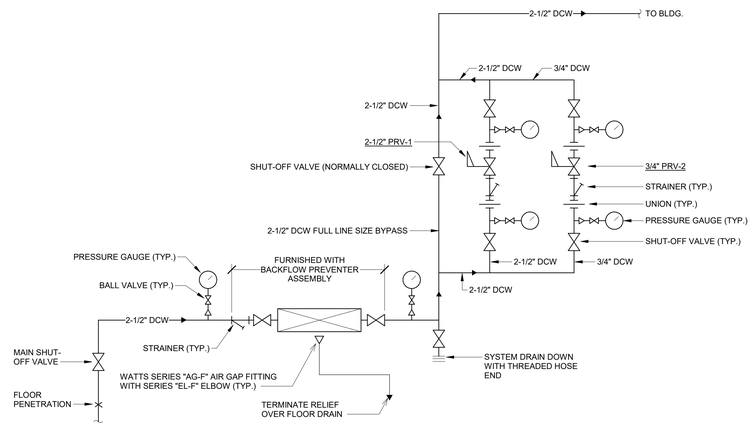


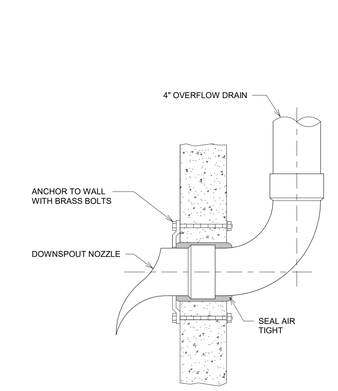
3 ROOF DRAIN WITH OVERFLOW DRAIN DETAIL
N.T.S.



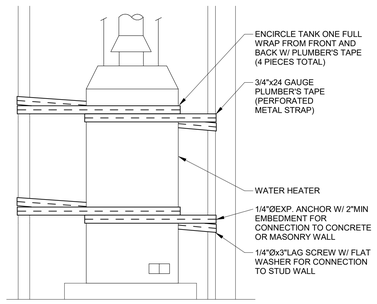
4 WATER SERVICE DETAIL - HEADQUARTERS BUILDING
12" = 1'-0"



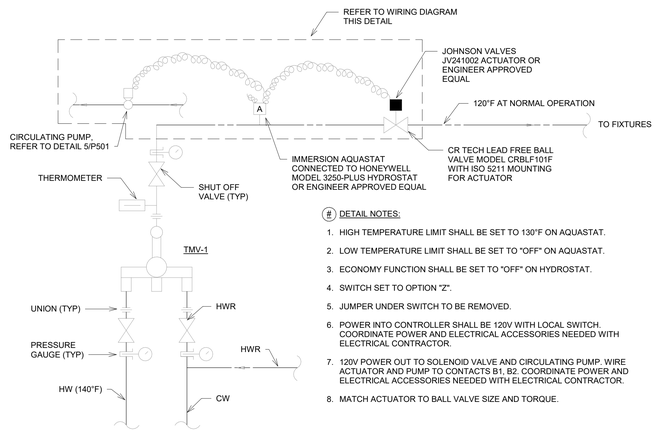
5 WATER SERVICE DETAIL - MAINTANENCE BUILDING
12" = 1'-0"



6 DOWNSPOUT NOZZLE DETAIL
N.T.S.



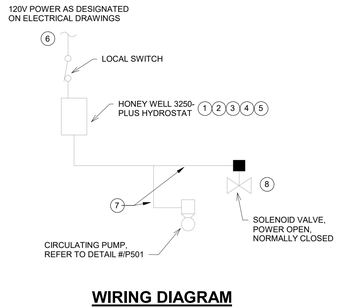
7 WATER HEATER STRAPPING DETAIL
N.T.S.



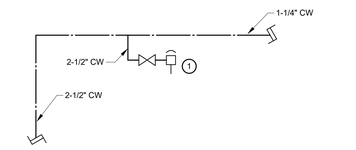
(#) DETAIL NOTES:

1. HIGH TEMPERATURE LIMIT SHALL BE SET TO 130°F ON AQUASTAT.
2. LOW TEMPERATURE LIMIT SHALL BE SET TO "OFF" ON AQUASTAT.
3. ECONOMY FUNCTION SHALL BE SET TO "OFF" ON HYDROSTAT.
4. SWITCH SET TO OPTION "Z".
5. JUMPER UNDER SWITCH TO BE REMOVED.
6. POWER INTO CONTROLLER SHALL BE 120V WITH LOCAL SWITCH. COORDINATE POWER AND ELECTRICAL ACCESSORIES NEEDED WITH ELECTRICAL CONTRACTOR.
7. 120V POWER OUT TO SOLENOID VALVE AND CIRCULATING PUMP. WIRE ACTUATOR AND PUMP TO CONTACTS B1, B2. COORDINATE POWER AND ELECTRICAL ACCESSORIES NEEDED WITH ELECTRICAL CONTRACTOR.
8. MATCH ACTUATOR TO BALL VALVE SIZE AND TORQUE.

8 MASTER MIXING VALVE PIPING DETAIL
N.T.S.



WIRING DIAGRAM



1 INSTALL BALL VALVE SAME SIZE AS PIPE, 2-1/2" WATTS LF288A VACUUM BREAKER, 2" NPT MIP TO 2-1/2" NH-NST MIP BRASS FIRE HOSE CONNECTION NIPPLE.

9 TRUCK FILL STATION DETAIL
N.T.S.

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EXPIRATION DATE: DECEMBER 31, 2026

Proposed:
CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE
360/340 ECOLOGY DRIVE ST. PETERS, MO 63376

No.	Revision	Date

PLUMBING DETAILS

Project No. 23121

Sheet No. P003

Date 09/16/2025

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DOMESTIC WATER HEATER SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	RECOVERY	DELTA T (°F)	FUEL	INPUT (BTUH)	STORAGE TANK CAP.	REMARKS
DWH-1	A.O. SMITH	BPD-80	74 GPH	100 F	NAT. GAS	76,000	75 GAL	1,2,3
DWH-2	A.O. SMITH	BPD-80	74 GPH	100 F	NAT. GAS	76,000	75 GAL	1,2,3

NOTES:
1) RECOVERY BASED ON INCOMING WATER TEMPERATURE OF 40 DEGREE F AND AN OUTLET TEMPERATURE OF 140 DEGREE F.
2) PROVIDE T&P RELIEF VALVE ON HEATER.
3) PROVIDE TMV AS SHOWN ON MIXING VALVE SCHEDULE.

EXPANSION TANK:
A) ET-1 = AMTROL THERM-X-TROL ST-12
B) ET-2 = AMTROL THERM-X-TROL ST-12

ELECTRONIC MIXING VALVE SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	CAPACITY (GAL/MIN)	PRESSURE LOSS (PSI)	INLET (INCHES)	OUTLET (INCHES)	LOCATION	REMARKS
TMV-1	LEONARD	S-PNV-100-LF-R34	72	10	1-1/4	1-1/2	HQ	1,2,3
TMV-2	LEONARD	S-PNV-100-LF-R34	72	10	1-1/4	1-1/2	MAINTENANCE	1,2,3

NOTES:
1) TMV PROVIDED WITH CHECK/SHUT OFF VALVE ON INLETS.
2) PROVIDE INSULATING UNIONS ON INLET AND OUTLET OF TMV.
3) PROVIDE TEMPERATURE GAUGE ON OUTLET OF TMV.

HOT WATER CIRCULATION PUMP SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	CAPACITY	VOLTAGE	PHASE	FLA	LOCATION	SERVICE	REMARKS
HWCP-1	BELL & GOSSETT	NBF-22U	5 GPM @ 15' HEAD	115	1	0.8	JAN. 143	DOM. HOT WATER	1,2
HWCP-2	BELL & GOSSETT	NBF-22U	5 GPM @ 15' HEAD	115	1	0.8	MAINT. MEZZANINE	DOM. HOT WATER	1,2
HWCP-3	BELL & GOSSETT	NBF-22U	5 GPM @ 15' HEAD	115	1	0.8	JAN. 143	DOM. HOT WATER	1,2

NOTES:
1) INSTALL PUMP WITH UNIONS ON INLET AND OUTLET.
2) PROVIDE SHUT OFF VALVE ON THE INLET, CHECK VALVE ON THE OUTLET, AND BALANCING VALVE ON THE OUTLET OF THE PUMP.

BACKFLOW PREVENTER SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	CONNECTION SIZE	SERVICE LOCATION	REMARKS
BFP-1	WATTS	LF009-S	2"	JANITOR 143	DOMESTIC WATER (1,2)
BFP-2	WATTS	LF009-S	3"	JANITOR 102	DOMESTIC WATER (1,2)

NOTES:
1) INSTALL PER DETAIL
2) INSTALL STRAINER UPSTREAM OF BACKFLOW PREVENTER.

DRAIN SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	STRAINER	NOTES
FD-1	JAY R. SMITH	2005-A-NB	INTEGRAL CLAMPING COLLAR AND ADJUSTABLE STAIUNLESS STEEL STRAINER, STRAINER SIZE TO BE 5" FOR 2" OUTLET, 6" FOR 3" OUTLET AND 8" FOR 4" OUTLET.	FINISHED AREAS (1,2,3)
FD-2	JAY R. SMITH	2240Y-G	ALL GALVANIZED, LARGE CAPACITY, CAST IRON FLOOR DRAINS WITH SEDIMENT BUCKET, DEEP SUMP AND ANTI-TILTING TRACTOR GRATE.	MECHANICAL ROOMS (1,2,3)
FD-3	JAY R. SMITH	2570-G	ALL GALVANIZED CAST IRON TRENCH DRAIN. SIZE 20-1/2" X 12" WITH 4" INSIDE CAULK OUTLET AND TRACTOR GRATE.	MECHANICAL ROOM DUMP DRAIN (1,2,3,4)
FD-6	JAY R. SMITH	9667-BS-SPC-316-HP-24"	LINEAR SHOWER DRAIN, 316SS PERFORATED GRATE, HIGH POLISH, 24" LENGTH	LINEAR SHOWER DRAIN (1,2,3)
FS-1	JAY R. SMITH	3430Y-12	A.R.C. COATED 12 IN SQ 8 IN DEEP, DOME STRAINER, 1/2 GRATE	KITCHEN FLOOR SINK (1,2,3)
FCO-1	JAY R. SMITH	4024S	ADJUSTABLE TOP, NICKEL BRONZE 5" SECURED TOP	FINISHED AREAS (1)
GCO-1	JAY R. SMITH	4223S	ADJUSTABLE TOP, CAST IRON EX HEAVY DUTY 5" SECURED TOP	EXTERIOR (1)
WCO-1	JAY R. SMITH	4710	STAINLESS STEEL WALL CLEANOUT ACCESS COVER	FINISHED AREAS (1)
RD-1	JAY R. SMITH	1010Y-C-CID	CAST IRON DOME WITH DECK CLAMP	FLAT ROOF (1)
RD-2	JAY R. SMITH	1080Y-C-E-CID	CAST IRON DOME WITH DECK CLAMP AND 2" EXTENSION	FLAT ROOF (1)
DSN-1	JAY R. SMITH	1770-PB-BS	NICKEL BRONZE WITH BIRD SCREEN	EXTERIOR (1)

NOTES:
1) SEE DRAWINGS FOR DRAIN SIZES.
2) PROVIDE DEEP SEAL P-TRAP UNDER EACH DRAIN.
3) PROVIDE TRAP PRIMER FOR EACH DRAIN. SEE SPECIFICATION FOR TYPE.
4) CUT GRATE FOR DRAIN FROM EXTRACTOR WASHER, PRE-ACTION DRAIN, WATER SOFTENER, OR LARGE BACKFLOW DEVICE.

SUMP PUMP SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	CAPACITY	VOLTAGE	PHASE	FLA	LOCATION	SERVICE	REMARKS
P-1	ZOELLER	6161	50 GPM @ 56' HEAD	115	1	15.5	MAINTENANCE BLDG.	DRAIN TILE	1,3
P-2	ZOELLER	6161	50 GPM @ 56' HEAD	115	1	15.5	MAINTENANCE BLDG.	DRAIN TILE	1,3
P-3	ZOELLER	6161	50 GPM @ 56' HEAD	115	1	15.5	TRAINING TOWER	TOWER TUNNELS	1,3
P-4	ZOELLER	6161	100 GPM @ 10' HEAD	115	1	15.5	MAINTENANCE BLDG.	SERVICE PIT	1,2,3
P-5	ZOELLER	6161	100 GPM @ 10' HEAD	115	1	15.5	MAINTENANCE BLDG.	SERVICE PIT	1,2,3

NOTES:
1) REFER TO BASIN DATA.
2) PROVIDE EXPLOSION PROOF PUMP.
3) PROVIDE MANUFACTURER RECOMMENDED CONTROL PANEL.

BASIN DATA

DIAMETER	BASIN MATERIAL	DISCHARGE LOCATION	VENT LOCATION	SERVICE	REMARKS
36"	FIBERGLASS	SIDE	SIDE	P-1 & P-2	FIELD APPLY PIPE SEAL
24"	FIBERGLASS	SIDE	SIDE	P-3	FIELD APPLY PIPE SEAL
36"	FIBERGLASS	SIDE	SIDE	P-4 & P-5	FIELD APPLY PIPE SEAL, EXPLOSION PROOF

PLUMBING FIXTURE SCHEDULE

MARK	MANUFACTURER & MODEL NUMBER	UTILITIES				REMARKS
		WASTE	VENT	CW	HW	
WC-1	FIXTURE: AMERICAN STANDARD AFWALL 2257.101 FLUSHOMETER: SLOAN REGAL 111 SFSM-1.28-XL-TMO SEAT: OLSONITE #95	4"	2"	1-1/4"	-	WALL MOUNT, 14" FLOOR TO RIM, WHITE, JAY R SMITH 0211 OR 0221 CARRIER INFRARED AUTOMATIC FLUSH VALVE, BATTERY, MECHANICAL OVERRIDE BUTTON, 1.28 GPF, POLISHED CHROME FINISH WHITE ELONGATED, OPEN FRONT
WC-2	FIXTURE: AMERICAN STANDARD AFWALL 2257.101 FLUSHOMETER: SLOAN REGAL 111 SFSM-1.28-XL-TMO SEAT: OLSONITE #95	4"	2"	1-1/4"	-	WALL MOUNT, 16" FLOOR TO RIM, WHITE, JAY R SMITH 0211 OR 0221 CARRIER INFRARED AUTOMATIC FLUSH VALVE, BATTERY, MECHANICAL OVERRIDE BUTTON, 1.28 GPF, POLISHED CHROME FINISH WHITE ELONGATED, OPEN FRONT
WC-3	FIXTURE: AMERICAN STANDARD AFWALL 2257.101 FLUSHOMETER: SLOAN REGAL 111-1.28-XL SEAT: OLSONITE #95	4"	2"	1-1/4"	-	WALL MOUNT, 16" FLOOR TO RIM, WHITE, JAY R SMITH 0211 OR 0221 CARRIER MANUAL FLUSH VALVE, 1.28 GPF, POLISHED CHROME FINISH WHITE ELONGATED, OPEN FRONT
UR-1	FIXTURE: AMERICAN STANDARD WASHBROOK 6590.001 FLUSHOMETER: SLOAN REGAL 186 SFSM-0.5-XL-TMO	2"	2"	3/4"	-	WALL MOUNT, STANDARD HEIGHT, WHITE, JAY R SMITH 0617 CARRIER, REFER TO ARCHITECURAL ELEVATIONS FOR FINAL MOUNTING HEIGHT INFRARED AUTOMATIC FLUSH VALVE, BATTERY, MECHANICAL OVERRIDE BUTTON, 0.5 GPF, POLISHED CHROME FINISH
UR-2	FIXTURE: AMERICAN STANDARD WASHBROOK 6590.001 FLUSHOMETER: SLOAN REGAL 186 SFSM-0.5-XL-TMO	2"	2"	3/4"	-	WALL MOUNT, ADA HEIGHT, WHITE, JAY R SMITH 0617 CARRIER, REFER TO ARCHITECURAL ELEVATIONS FOR FINAL MOUNTING HEIGHT INFRARED AUTOMATIC FLUSH VALVE, BATTERY, MECHANICAL OVERRIDE BUTTON, 0.5 GPF, POLISHED CHROME FINISH
UR-3	FIXTURE: AMERICAN STANDARD WASHBROOK 6590.001 FLUSHOMETER: SLOAN REGAL 186-0.5-XL	2"	2"	3/4"	-	WALL MOUNT, ADA HEIGHT, WHITE, JAY R SMITH 0617 CARRIER, REFER TO ARCHITECURAL ELEVATIONS FOR FINAL MOUNTING HEIGHT MANUAL FLUSH VALVE, 0.5 GPF, POLISHED CHROME FINISH
LA-1	FIXTURE: AMERICAN STANDARD OVALYN 0496221 FAUCET: SLOAN SF-2150 0.5 GPM STRAINER: ZURN Z8743 P-TRAP: ZURN Z8700-8-PC SUPPLIES: BRASSCRAFT OCR1915AX-C	2"	2"	1/2"	1/2"	UNDERCOUNTER MOUNTED, WHITE VITREOUS CHINA DECK MOUNTED, INFRARED AUTOMATIC, 0.5 GPM, BATTERY, CHROME FINISH, LEONARD 170-LF THERMOSTATIC MIXING VALVE GRID STRAINER WITH 1-1/4" TAILPIECE 1-1/4", 17 GA, CHROME, SLIP JOINT WITH CLEANOUT, WALL ESCUTCHEON ANGLE VALVES, CHROME PLATED, WITH 15" RISER TUBES
LA-2	FIXTURE: AMERICAN STANDARD MURRO 0955001EC FAUCET: CHICAGO FAUCETS 420-T41E2805ABCP 0.5 GPM STRAINER: ZURN Z8743 P-TRAP: ZURN Z8700-8-PC SUPPLIES: BRASSCRAFT OCR1915AX-C	2"	2"	1/2"	1/2"	WALL MOUNTED, WHITE VITREOUS CHINA, INCLUDE 0062000 ACRYLIC SHROUD DECK MOUNTED MANUAL, 0.5 GPM, CHROME FINISH, 4-1/4" LEVER HANDLE GRID STRAINER WITH 1-1/4" TAILPIECE 1-1/4", 17 GA, CHROME, SLIP JOINT WITH CLEANOUT, WALL ESCUTCHEON ANGLE VALVES, CHROME PLATED, WITH 15" RISER TUBES
S-1	FIXTURE: ELKAY ELUH1814 FAUCET: CHICAGO FAUCETS 436-ABCP STRAINER: ZURN Z8740-PC P-TRAP: ZURN Z8702-9-PC SUPPLIES: BRASSCRAFT OCR1915AX-C	2"	2"	1/2"	1/2"	UNDERCOUNTER MOUNTED, STAINLESS STEEL, 18 GAUGE DECK MOUNTED SINGLE HOLE FAUCET, MANUAL, 1.5 GPM, CHROME FINISH, SIDE MOUNT HANDLE BASKET STRAINER WITH 1-1/2" TAILPIECE, 20 GA, CHROME PLATED BRASS 1-1/2", 17 GA, CHROME, SLIP JOINT WITH CLEANOUT, WALL ESCUTCHEON ANGLE VALVES, CHROME PLATED, WITH 15" RISER TUBES
S-2	FIXTURE: HAND SINK BY OTHERS, KITCHEN EQUIPMENT SUPPLIER, FINAL CONNECTION BY PLUMBING CONTRACTOR FAUCET: BY OTHERS, KITCHEN EQUIPMENT SUPPLIER STRAINER: BY OTHERS, KITCHEN EQUIPMENT SUPPLIER P-TRAP: ZURN Z8700-8-PC SUPPLIES: BRASSCRAFT OCR1915AX-C	2"	2"	1/2"	1/2"	STAINLESS STEEL POLISHED CHROME POLISHED CHROME 1-1/4", 17 GA, CHROME, SLIP JOINT WITH CLEANOUT, WALL ESCUTCHEON ANGLE VALVES, CHROME PLATED, WITH 15" RISER TUBES
S-3	FIXTURE: THREE COMPARTMENT SINK BY OTHERS, KITCHEN EQ. SUPPLIER, FINAL CONNECTION BY PLUMBING CONTRACTOR FAUCET: BY OTHERS, KITCHEN EQUIPMENT SUPPLIER STRAINER: BY OTHERS, KITCHEN EQUIPMENT SUPPLIER P-TRAP: 2" COPPER P-TRAP FROM 2" COPPER DRAIN HEADER SUPPLIES: WATER SUPPLY CONNECTED AT SINK BACKSPLASH	2"	-	3/4"	3/4"	STAINLESS STEEL POLISHED CHROME POLISHED CHROME DIRECT CONNECTION TO GREASE WASTE BY PLUMBING CONTRACTOR FINAL CONNECTION BY PLUMBING CONTRACTOR
SH-1	DRAIN: JAY R. SMITH 9667-BS-SPC-316-HP-24" (FD-3) TRIM & VALVE: SYMMONS #1-117-FS-B30-1.5-X-CHKS	2"	2"	1/2"	1/2"	LINEAR DRAIN, 316 STAINLESS STEEL, PERFORATED GRATE, HIGH POLISH, 24" PRESSURE BALANCE MIXING VALVE, FS HAND SPRAY UNIT WITH 5' FLEXIBLE HOSE AND WALL CONNECTION, 30" CHROME SLIDE BAR, DIVERTER VALVE, 1.5 GPM SUPER SHOWER HEAD
EWC-1	FIXTURE: SLOAN DRS110-FIL-REF-BLK	2"	2"	1/2"	1/2"	SINGLE LEVEL ADA, ON WALL, FILTERED 8GPH, STAINLESS STEEL WATER COOLER, BOTTLE FILLER
EWC-2	FIXTURE: SLOAN DRS110-FIL-REF-BLK	2"	2"	1/2"	1/2"	SINGLE LEVEL, ON WALL, FILTERED 8GPH, STAINLESS STEEL WATER COOLER, BOTTLE FILLER
BF-1	FIXTURE: SLOAN DRS100-FIL-REF-BLK	2"	2"	1/2"	1/2"	ON WALL, FILTERED 8GPH, STAINLESS STEEL BOTTLE FILLER
MSB-1	FIXTURE: FIAT #MSB-2424 FAUCET: CHICAGO #956R MOP HANGER: FIAT #899-CC HOSE/BRACKET: FIAT #832-AA	3"	2"	1/2"	1/2"	FLOOR SET, 24" x 24" SERVICE SINK FITTING WITH VACUUM BREAKER, 5' HOSE
WH-1	WALL HYDRANT: WOODFORD MODEL B65-CH	-	-	3/4"	-	FREEZELESS, AUTOMATIC DRAINING, ANTI-SIPHON VACUUM BREAKER, CHROME FINISH
WSB-1	WATER SUPPLY BOX: IPS CORP. OUTLET BOX #MIB1HAAB	-	-	1/2"	-	WHITE POWDER COATED OUTLET BOX, 1/4 TURN BALL VALVE, WATER HAMMER ARRESTOR, 1/4" OUTLET FOR REFRIGERATOR CONNECTION, 3/8" OUTLET FOR ICE MACHINE CONNECTION
GI-1	GREASE INTERCEPTOR: SCHIER GB-75	4"	-	-	-	POLYETHYLENE GREASE TRAP WITH 3/8" WALL THICKNESS. MAX FLOW RATE: 75 GPM, 125 LIQUID CAPACITY, 31 GALLONS SOLIDS CAPACITY. T24-GI TRAFFIC RATED CAST IRON MANHOLE COVER WATER / GAS TIGHT SEAL. PROVIDE EXTENSION RINGS TO MATCH FINISH GRADE. FURNISH AND INSTALL AK1 ANCHOR KIT.
HR-1	REEL: REELCRAFT CA33106-L HOSE: REELCRAFT S601026-100	-	-	-	-	MANUAL CRANK, DUCTILE IRON CONSTRUCTION, HEAVY DUTY PVC NYLON BRAIDED HOSE, 3/4" DIA, 100 FT, MAX TEMP 150˚F
OI-1	OIL INTERCEPTOR: STRIEM OS-50	6"	-	-	-	MAX FLOW RATE: 100 GPM, OIL CAP.: 62.5 GAL, SOLIDS CAP.: 95 GAL, SOLIDS CAP.: 250 GAL., T24-GI TRAFFIC RATED CAST IRON MANHOLE COVER WATER / GAS TIGHT SEAL. PROVIDE EXTENSION RINGS TO MATCH FINISH GRADE. FURNISH AND INSTALL AK1 ANCHOR KIT.

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ST. PETERS, MO 63376
360/340 ECOLOGY DRIVE

No.	Date	Revision

PLUMBING SCHEDULES

Project No. 23121

Sheet No. P004

Date 09/16/2025

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FIRE PROTECTION

- CONTROL VALVE WITH TAMPER SWITCH (TS)
- ELECTRIC MOTOR ALARM GONG
- FIRE MAIN (F)
- SPRINKLER MAIN - SIZED BASED ON HYDRAULIC CALCULATIONS (SPKL)
- FIRE PUMP TEST HEADER
- FLOW SWITCH (FS)
- ROOF HYDRANT OUTLET
- SIAMESE CONNECTION
- SEMI RECESSED
- CONCEALED
- PENDENT/UPRIGHT
- SIDEWALL
- FIRE PROTECTION ZONE
- AUTOMATIC AIR VENT
- BACKFLOW PREVENTER
- CHECK VALVE
- BALANCING VALVE (CIRCUIT SETTER)
- FLOW ARROW/DIRECTION
- FLOW CONTROL VALVE
- GLOBE VALVE
- PRESSURE GAUGE AND COCK
- PRESSURE REDUCING VALVE
- PRESSURE REGULATOR
- REDUCER
- SHOCK ABSORBER/WATER HAMMER ARRESTOR
- SHUT OFF VALVE (OR)
- SOLENOID VALVE
- STRAINER
- TEMP & PRESSURE RELIEF VALVE
- TEST PLUG
- THERMOMETER
- UNION (DIELECTRIC)
- (DASHED) INDICATED PIPING TO BE REMOVED
- CONNECTION TO EXISTING
- EQUIPMENT NUMBER (EQ / #)
- INDICATES PLUMBING RISER (P / 1)
- KITCHEN EQUIPMENT NUMBER (1)
- REVISION DELTA (1)
- KEYED NOTE (#)
- KEYED DEMOLITION NOTE (#)
- ELBOW DOWN
- ELBOW UP
- TEE DOWN
- TEE UP
- FLOOR DRAIN

ABBREVIATIONS

AD	AREA DRAIN
ADA	AMERICANS WITH DISABILITIES ACT COMPLIANT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISH GRADE
AP	ACCESS PANEL
AV	ACID RESISTANT VENT
AVTR	ACID RESISTANT VENT THRU ROOF
AW	ACID RESISTANT WASTE
BFG	BELOW FINISHED GRADE
BGB	BOTTOM OF GRADE BEAM
BM	BEAM
BOB	BOTTOM OF BEAM
BOD	BOTTOM OF DUCT
BOF	BOTTOM OF FOOTING
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF SLAB
BOT	BOTTOM
BT	BATHTUB
BOW	BOTTOM OF WALL
CL	CENTERLINE
CI	CAST IRON
CO	CLEANOUT
CV	CHECK VALVE
DCW	DOMESTIC COLD WATER
DD	DECK DRAIN
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
DI	DUCTILE IRON
DIA	DIAMETER
DIR	DEIONIZED WATER RETURN
DIS	DEIONIZED WATER SUPPLY
DN	DOWN
DR	DRAIN
DS	DOWNSPOUT
DTL	DETAIL
DWG(S)	DRAWING(S)
DWR	DISTILLED WATER RETURN
DWS	DISTILLED WATER SUPPLY
EC	ELECTRICAL CONTRACTOR - DIVISION 26
ELEC	ELECTRIC
ELEV	ELEVATION
EQ	EQUAL
EXIST, EX	EXISTING
FA	FROM ABOVE
FB	FROM BELOW
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FDV	FIRE DEPARTMENT VALVE
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHV	FIRE HOSE VALVE
FIN	FINISHED
FL	FLOOR . FIRE LINE
FP	FIRE PUMP
FPC	FIRE PROTECTION CONTRACTOR - DIVISION 21
FS	FLOOR SINK
FT	FEET
FT-HD	FEET IN HEAD
FVC	FIRE VALVE CABINET
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GB	GRADE BEAM
GC	GENERAL CONTRACTOR
GCO	GRADE CLEANOUT
GPM	GALLONS PER MINUTE
H	HEIGHT
HB	HOSE BIBB
HD	HUB DRAIN
HE	HOSE END
HORIZ	HORIZONTAL
HP	HORSEPOWER
HT	HOUSE TRAP
HW	HOT WATER
HWR	HOT WATER RETURN
HZ	HERTZ
IE	INVERT ELEVATION
IN	INCH/INCHES
INV	INVERT
JP	JOCKEY PUMP
L	LENGTH
LVL	LEVEL
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR - DIVISION 23
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OAI	OUTSIDE AIR INTAKE
OC	ON CENTER
OD	OUTSIDE DIAMETER

ABBREVIATIONS

OFCI	OWNER FURNISHED / CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED / OWNER INSTALLED
PC	PLUMBING CONTRACTOR - DIVISION 22
PH	PHASE
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSI	PSI ABSOLUTE
PSIA	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE IN GAUGE
QTY	QUANTITY
RCP	REINFORCED CONCRETE PIPIE
RD	ROOF DRAIN
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
SA	SHOCK ABSORBER
SAN	SANITARY
SF	SQUARE FOOT
SHT	SHEET
SOL	SOLENOID
SP	STANDPIPE
SQ	SQUARE
STL	STEEL
STR	SOIL STACK THRU ROOF
SW	STREET WASHER
T*P	TEMPERATURE & PRESSURE
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPERATURE
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOS	TOP OF SLAB
TOT	TOTAL
TPC	TOP OF PIER CAP
TW	TEMPERED WATER
TYP	TYPICAL
V	VENT
VB	VACUUM BREAKER
VCP	VITREOUS CLAY PIPE
VERT	VERTICAL
VL	VALVE
VOL	VOLUME
VTR	VENT THRU ROOF
W/O	WITH / WITHOUT
WH	WALL HYDRANT
WT	WEIGHT
YD	YARD DRAIN

GENERAL NOTES:

1. BECAUSE OF THE LIMITED SPACE AVAILABLE TO INSTALL ALL OF THE FIRE PROTECTION WORK, COORDINATION BETWEEN OTHER TRADES IS OF THE UTMOST IMPORTANCE.
2. DRAWINGS INDICATE THE GENERAL LOCATION AND ARRANGEMENT OF EQUIPMENT AND PIPING SYSTEMS. LOCATION AND ARRANGEMENT OF PIPING LAYOUT TAKE INTO ACCOUNT MANY DESIGN CONSIDERATIONS. SO FAR AS PRACTICAL, INSTALL PIPING AS INDICATED. THIS CONTRACTOR SHALL REPORT, IN WRITING, ANY DISCREPANCIES WHICH PREVENT THE INSTALLATION OF WORK AS SHOWN.
3. THE CONTRACTOR SHALL VISIT THE PROJECT SITE, AND VERIFY LOCATIONS, ELEVATIONS AND SIZES OF ALL UTILITIES AT SITE PRIOR TO PROCEEDING WITH WORK. EXISTING SYSTEMS AND STRUCTURE SHALL BE INVESTIGATED FOR BEST POSSIBLE ROUTING OF FIRE PROTECTION PIPING.
4. IF THE CONTRACTOR DOES NOT CLEARLY UNDERSTAND THESE PLANS OR IS NOT COMPLETELY SURE OF THEIR MEANING, THE CONTRACTOR SHALL OBTAIN THE ENGINEERS WRITTEN EXPLANATION AND/OR INTERPRETATION PRIOR TO SUBMITTING BIDS, SINCE THIS CONTRACTOR WILL BE HELD RIGIDLY TO THE INTERPRETATION OF THE ENGINEER.

SPRINKLER HEAD SCHEDULE

MARK	STYLE	ELEMENT BULB		COVERAGE	OCCUPANCY RATING	FINISH	ESCUTCHEON	SPECIALS	VIKING MODEL NO.	REMARKS
		RESPONSE	TEMP CLASS							
A	RP	QR	ORDINARY	SC	LH	W	R	-	VK302	SEMI-RECESSED
B	C	QR	ORDINARY	SC	LH	W	F	-	VK462	CONCEALED HEAD
C	FP	QR	ORDINARY	SC	LH	W	F	-	VK410	INSTITUTIONAL HEAD
D	P	QR	ORDINARY	SC	LH	U	X	-	VK300	NON-CEILING AREAS
E	SW	QR	ORDINARY	SC	OH	U	F	-	VK305	

STYLE	RESPONSE	COVERAGE	OCCUPANCY RATING	FINISH	ESCUTCHEON
C- CONCEALED PENDANT	QR- QUICK RESPONSE 3MM	EC- EXTENDED	LH- LIGHT HAZARD	B- POLISHED BRASS	C- CONCEALED COPPERPLATE]
P- PENDANT	SR- STANDARD 5MM	SC- STANDARD	OH- ORDINARY HAZARD	C- CHROME	E- 2 PIECE EXTENDED
RP- RECESSED PENDANT			EH- EXTRA HAZARD	OW- OFF WHITE	F- FLAT
RSW- RECESSED SIDEWALL				U- UNFINISHED	R- RECESSED
FSW- FLUSH SIDEWALL				W- WHITE	X- NO ESCUTCHEON
SW- SIDEWALL					
U- UPRIGHT				* - CUSTOM COLOR	
FP- FLUSH PENDANT					

HYDRAULIC DESIGN CRITERIA

CLASSIFICATION	AREA	DENSITY	APPLICATIONS
LH- LIGHT HAZARD	1500 SF	0.10 GPM	ALL AREAS NOT LISTED BELOW
OH-1 ORDINARY HAZARD GROUP 1	1500 SF	0.15 GPM	STORAGE ROOMS, MECH. ROOMS, ELEC. ROOMS, SHELL SPACES, ACCESSIBLE PIPE CHASES
OH-2 ORDINARY HAZARD CROUP 2	1500 SF	0.20 GPM	
EH-1 EXTRA HAZARD GROUP 1	2500 SF	0.30 GPM	
EH-2 EXTRA HAZARD GROUP 2	2500 SF	0.40 GPM	

HYDRANT FLOW TEST

DATE OF TEST: MARCH 25, 2025 AT 2:01 PM	
FLOW HYDRANT ID: N/A	ELEVATION: 450 FEET
GAGE HYDRANT ID: N/A	ELEVATION: 450 FEET
FLOW: 2224 GPM (+/- 100 GPM)	
STATIC PRESSURE: 120 PSIG	
RESIDUAL PRESSURE: 98 PSIG	

ANCHORAGE AND SWAY BRACING FOR FIRE PROTECTION COMPONENTS RELATED TO SEISMIC LOAD RESISTANCE

OCCUPANCY CATEGORY (II) **SEISMIC DESIGN CATEGORY (C)**

LISTING OF EQUIPMENT & SYSTEM COMPONENTS	ANCHORAGE TO FLOORS, ROOF, ETC.		SWAY BRACING		LOCATION OF PROFESSIONALLY-SEALED ANCHORAGE AND SWAY BRACING DETAILS		COMMENTS
					ON CONSTRUCTION DOCUMENTS	SUBSEQUENT SUBMITTAL SEPARATE PERMIT AND PLANS	
	NOT PROVIDED	PROVIDED	NOT PROVIDED	PROVIDED	DRAWING NO. OR SPEC. SECTION		
FIRE PROTECTION, DETECTION & ALARM EQUIPMENT AND SYSTEM COMPONENTS Ip=1.5		X		X		X	
FIRE SYSTEM EQUIPMENT		X		X		X	
FIRE SPRINKLER SYSTEM PIPING / VALVES		X		X		X	
FIRE MAIN PIPING / VALVES		X		X		X	

EXPLANATORY NOTES:
1. ALL FIRE PROTECTION SYSTEMS SHALL CONFORM TO NFPA 13 LATEST EDITION FOR ANCHORAGE AND SWAY BRACING
2. PLANS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF THIS PROJECT ALONG WITH A SEPARATE PERMIT APPLICATION NEED TO BE SUBMITTED TO THE AHJ A MINIMUM OF TWO WEEKS PRIOR TO THE PLANNED INSTALLATION TO ALLOW FOR PLAN REVIEW AND DISTRIBUTION TO THE INSPECTOR. ADDITIONAL TIME MAY BE NEEDED IF SUCH SUBMISSIONS ARE DEFICIENT.
3. SWAY BRACING REQUIRED FOR ITEMS SUSPENDED FROM STRUCTURE, UNLESS EXEMPT.
4. ANCHORAGE & BRACING CONTRACTOR SHALL REFER TO SPECIFICATIONS ON SEISMIC ANCHORAGE & SWAY BRACING.
5. ALL SEISMIC SHOP DRAWINGS SHALL BE REVIEWED BY THE ENGINEER OF RECORD PRIOR TO SUBMITTAL TO THE CODE REVIEWER.
6. CONTRACTOR SHALL ADHERE TO REQUIREMENTS FOR EXEMPTION, WHERE NOTED, OR PROVIDE SEISMIC BRACING DESIGNED BY A QUALIFIED ENGINEER LICENSED IN THE PROJECT'S STATE.

FIRE PROTECTION LEGEND

NOT ALL SYMBOLS AND ABBREVIATIONS ARE USED

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EXPIRATION DATE: DECEMBER 31, 2026

Proposed:
CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE
360/340 ECOLOGY DRIVE ST. PETERS, MO 63376

No.	Date	Revision

FIRE PROT. SYMBOLS AND ABBREV.

Project No. 23121

Sheet No. FP001

Date 09/16/2025

9/10/2025 1:53:33 PM
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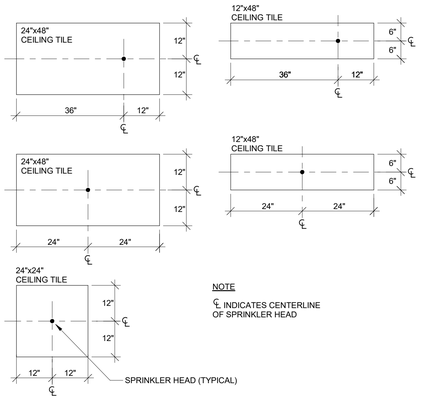
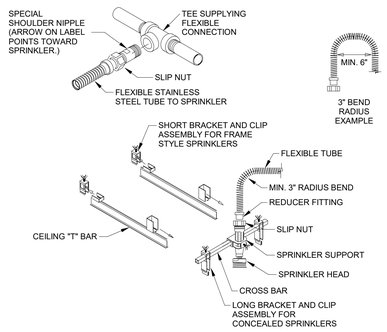
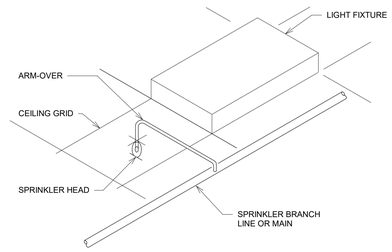


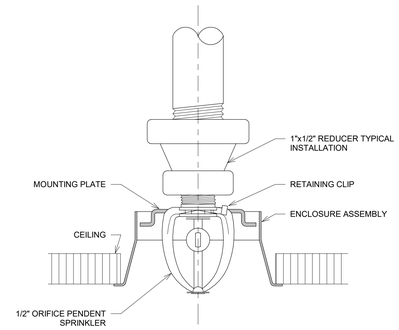
1 SPRINKLER HEAD LOCATION DETAIL
N.T.S.



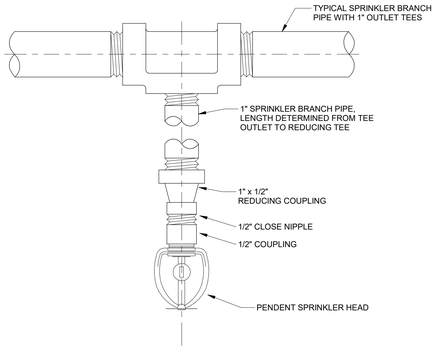
2 FLEXIBLE ARM-OVER DETAIL
N.T.S.



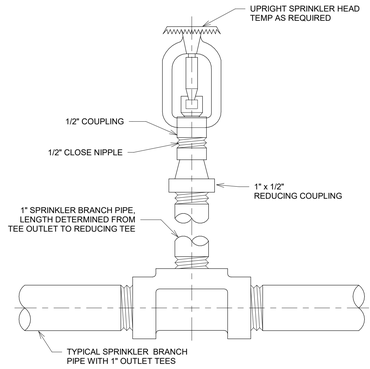
3 ARM-OVER DETAIL
N.T.S.



4 SEMI-RECESSED SPRINKLER HEAD INSTALLATION DETAIL
N.T.S.



5 PENDENT SPRINKLER HEAD INSTALLATION DETAIL
N.T.S.



6 UPRIGHT SPRINKLER HEAD INSTALLATION DETAIL
N.T.S.

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No.	Date	Revision

FIRE PROTECTION DETAILS

Project No.
23121

Sheet No.
FP002

Date
09/16/2025

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LIGHT FIXTURES:

Ab
EL - 1
A = FIXTURE TYPE
b = SWITCH LEG
LIGHT FIXTURE
EL = PANEL
1 = CIRCUIT NUMBER

- 2x4 LIGHT FIXTURE
- 2x4 LIGHT ON EMERGENCY
- 2x4 LIGHT WITH NIGHTLIGHT
- 2x2 LIGHT FIXTURE
- 2x2 LIGHT ON EMERGENCY
- 2x2 LIGHT WITH NIGHTLIGHT
- CIRCLE DOWNLIGHT FIXTURE
- CIRCLE DOWNLIGHT ON EMERGENCY
- CIRCLE DOWNLIGHT NIGHT LIGHT
- CIRCLE DOWNLIGHT WALL WASH FIXTURE
- SQUARE DOWNLIGHT FIXTURE
- SQUARE DOWNLIGHT ON EMERGENCY
- SQUARE DOWNLIGHT NIGHT LIGHT
- SQUARE DOWNLIGHT WALL WASH FIXTURE
- STRIP LIGHT FIXTURE
- EXTERIOR FLOOD LIGHT
- POLE LIGHT FIXTURE
- BOLLARD
- BOLLARD ON EMERGENCY
- EXIT SIGN - CEILING MOUNTED (WITH DIRECTIONAL ARROW) (SHADE INDICATES # OF FACES)
- EXIT SIGN - WALL MOUNTED (WITH DIRECTIONAL ARROW) (SHADE INDICATES # OF FACES)
- EMERGENCY LIGHT PACK WITH BATTERY (96" A.F.F.)
- SCONCE
- WALL PACK - EXTERIOR
- TRACK LIGHTING
- CEILING FAN

LIGHTING DEVICES:

- V — DAYLIGHT HARVEST SENSOR
- PC — PHOTOCELL
- VS — CEILING OCCUPANCY SENSOR (VS = VACANCY SENSOR, OC = OCCUPANY SENSOR)
- CEILING OCCUPANCY SENSOR MULTI DIRECTION
- $a — TOGGLE SWITCH SINGLE POLE (48" A.F.F.) a = SWITCH LEG (LOWER CASE LETTERS)
- $3 — TOGGLE SWITCH THREE WAY
- $4 — TOGGLE SWITCH FOUR WAY
- $D — DIMMER SWITCH
- $K — KEY OPERATED SWITCH
- $P — SWITCH WITH PILOT LIGHT ON WHEN SWITCH IS ON
- $T — TIMER SWITCH
- $WP — WEATHERPROOF SINGLE POLE SWITCH
- $OS — OCCUPANCY SENSOR WALL MOUNTED WITH OFF-AUTO OVERRIDE SWITCH
- $VS — VACANCY SENSOR WALL MOUNTED
- [$] — DATA LINE SWITCH / LIGHTING CONTROL OVERRIDE SWITCH (48" A.F.F.)

ABBREVIATIONS:

A.F.F.	ABOVE FINISH FLOOR
C	CONDUIT
C	6" ABOVE COUNTER BACKSPLASH
u	USB OUTLET
GFI	GROUND FAULT INTERRUPTER
WP	WEATHERPROOF
GRS	GALVANIZED RIGID STEEL
EMT	ELECTRICAL METAL TUBING
AC	ALTERNATING CURRENT
MC	METAL CLAD CABLE
PVC	POLYVINYL CHLORIDE CONDUIT
IG	ISOLATED GROUND

CONDUIT:

- CONDUIT EXPOSED
- CONDUIT CONCEALED IN FLOOR, BELOW SLAB OR BELOW GRADE
- CONDUIT CONCEALED IN WALL OR CEILING
- T — TELEPHONE CONDUIT
- CATV — TELEVISION CONDUIT
- CONDUIT DOWN
- CONDUIT UP
- CONDUIT SLEEVE INSULATED BUSHING EACH END
- WIRE CONDUIT LEFT TO RIGHT 1 GROUND, 1 NEUTRAL, 3 HOTS
- A - 1,3 — HOME RUN A = PANEL A, 1,3 = CIRCUITS 1,3
- CABLE TRAY
- A — FEEDER A
- GROUND JACK
- PB — PULL BOX
- HH — HAND HOLD

ELECTRICAL FIXTURES:

- SIMPLEX RECEPTACLE (18" A.F.F.)
- DUPLEX RECEPTACLE (18" A.F.F.)
- GFI DUPLEX RECEPTACLE (18" A.F.F.)
- QUADRUPLEX RECEPTACLE (18" A.F.F.)
- GFI QUADRUPLEX RECEPTACLE (18" A.F.F.)
- EMERGENCY RECEPTACLE (18" A.F.F.)
- COUNTERTOP RECEPTACLE (6" ABOVE COUNTER)
- TAMPER RESISTANT RECEPTACLE (18" A.F.F.)
- FLOOR RECEPTACLE
- SPECIAL PURPOSE RECEPTACLE (18" A.F.F.)
- SPECIAL PURPOSE FLOOR RECEPTACLE
- JUNCTION BOX
- JUNCTION BOX IN FLOOR
- SURFACE RACEWAY DUPLEX OUTLET 3' ON CENTER
- PP — POWER POLE
- PS — POWER SUPPLY
- P — POWER WHIP

SECURITY DEVICES:

- AC — ACCESS CONTROL HEAD-END
- C — CAMERA
- CCTV — CCTV HEAD-END
- MON — CCTV MONITOR
- DC — DOOR CONTACT
- ES — ELECTRIC DOOR STRIKE
- REX — REQUEST TO EXIST MOTION DETECTOR
- K — KEYPAD
- ML — MAGNETIC LOCK
- M — MOTION DETECTOR - WALL MOUNTED
- M — MOTION DETECTOR - CEILING MOUNTED
- G — GLASS BREAK DETECTOR - WALL MOUNTED
- G — GLASS BREAK DETECTOR - CEILING MOUNTED
- PROX — PROXIMITY READER ACCESS CONTROL
- P — PANIC BUTTON
- CR — SECURITY CARD READER
- RA — REFRIGERATOR ALARMS
- EP — ELECTRIC/PNEUMATIC SWITCH
- LS — LIMIT SWITCH
- MGA — MEDICAL GAS ALARM
- V — VOLUME CONTROL (48" A.F.F.)

COMMUNICATION DEVICES:

- ANT — ANTENNA
- ARA — AREA OF RESCUE ANNUNCIATOR
- AR — AREA OF RESCUE ASSISTANCE CALL STATION
- H — SPEAKER HORN
- B — DOOR BELL
- HM — HANGING MICROPHONE
- I M — INTERCOM MASTER
- I S — INTERCOM SLAVE
- M — MICROPHONE OUTLET
- M — MICROPHONE OUTLET IN FLOOR
- PBS — PROGRAM BELL SYSTEM
- PAS — PUBLIC ADDRESS SYSTEM
- PUSH BUTTON
- PUSH BUTTON - MUSHROOM HEAD
- SEC — SOUND EQUIPMENT PANEL
- S — SPEAKER - CEILING MOUNTED
- S — SPEAKER - SURFACE MOUNTED
- S — SPEAKER - WALL MOUNTED
- ANALOG CLOCK 2 = DUAL FACE
- 12:00 2 — DIGITAL CLOCK 2 = DUAL FACE
- TIME ELAPSE CLOCK AND CONTROLLER

DATA DEVICES:

- DATA OUTLET (18" A.F.F.) c = 6" ABOVE COUNTER BACKSPLASH, 2 = NUMBER EQUALS TOTAL NUMBER OF PORTS
- DATA OUTLET IN FLOOR
- SURFACE RACEWAY DATA OUTLET 3' ON CENTER
- TELEPHONE OUTLET (18" A.F.F.) c = 6" ABOVE COUNTER BACKSPLASH, 2 = NUMBER EQUALS TOTAL NUMBER OF PORTS, W = MOUNT 48" A.F.F.
- TELEPHONE OUTLET IN FLOOR
- TELEPHONE/DATA OUTLET (18" A.F.F.) c = 6" ABOVE COUNTER BACKSPLASH, 2 = NUMBER EQUALS TOTAL NUMBER OF DATA PORTS, 2 = NUMBER EQUALS TOTAL NUMBER OF PHONE PORTS
- TELEPHONE/DATA OUTLET IN FLOOR
- HDMI OUTLET (18" A.F.F.) UNO c = 6" ABOVE COUNTER BACKSPLASH, 2 = NUMBER EQUALS TOTAL NUMBER OF PORTS, W = MOUNT 48" A.F.F.
- HDMI OUTLET IN FLOOR
- TV — TELEVISION OUTLET (88" A.F.F.)
- WAP — WIRELESS ACCESS POINT

FIRE ALARM DEVICES:

- F 110 — COMBINATION HORN STROBE FIRE ALARM - WALL MOUNTED (90" A.F.F. MINIMUM 6" BELOW CEILING) 110 = CANDELA RATING
- F — HORN FIRE ALARM - WALL MOUNTED (90" A.F.F)
- F CH — BELL ALARM - WALL MOUNTED (1' BELOW CEILING) CH = CHIME, G = GONG
- 110 — STROBE FIRE ALARM - WALL MOUNTED (90" A.F.F. MINIMUM 6" BELOW CEILING) 110 = CANDELA RATING
- F 110 — COMBINATION HORN STROBE FIRE ALARM - CEILING MOUNTED 110 = CANDELA RATING
- HORN FIRE ALARM - CEILING MOUNTED
- F 95 — VISUAL FIRE ALARM - CEILING MOUNTED 95 = CANDELA RATING
- FACP — FIRE ALARM CONTROL PANEL
- FAA — FIRE ALARM ANNUNCIATOR PANEL (60" A.F.F.)
- FDC — FIRE ALARM DIGITAL COMMUNICATOR
- DH — DOOR HOLDER
- F — MANUAL PULL STATION (48" A.F.F.)
- FD — DUCT DETECTOR
- FDT — DUCT DETECTOR SWITCH
- FH — HEAT DETECTOR
- FS — SMOKE DETECTOR
- B — FIRE SUPPRESSION ALARM
- F — FIREMANS TELEPHONE OUTLET
- FS — FIRE ALARM FLOW SWITCH
- TS — FIRE ALARM TAMPER SWITCH
- MM — FIRE ALARM MONITOR MODULE
- CM — FIRE ALARM CONTROL MODULE
- PIV — POST INDICATING VALVE
- PCSM — NETWORK / CELL DIGITAL COMMUNICATOR
- CO — CARBON MONOXIDE DETECTOR
- CO2 — CARBON DIOXIDE DETECTOR

ELECTRICAL EQUIPMENT:

- ELECTRIC METER
- G — GENERATOR
- GA — GENERATOR ANNUNCIATOR
- PANELBOARD
- DISTRIBUTION PANELBOARD
- T — TRANSFORMER
- ATS — AUTOMATIC TRANSFER SWITCH
- MTS — MANUAL TRANSFER SWITCH
- UPS — UNINTERRUPTIBLE POWER SOURCE
- MM — MULTIMETER
- SPD — SURGE PROTECTOR DEVICE
- UTILITY POLE
- EF 01 — MOTOR WITH DESIGNATION
- $m — MANUAL MOTOR STARTER
- DISCONNECT SWITCH
- COMBINATION STARTER
- MOTOR STARTER
- WEATHER HEAD
- SV — SOLENOID VALVE
- VSD — VARIABLE SPEED DRIVE
- ANTENNA - TELEMETRY

GENERAL NOTES:

1. ELECTRICAL INSTALLATION PER 2020 NATIONAL ELECTRICAL CODE.
2. ALL ELECTRICAL EQUIPMENT SHALL BE UL/NRTL LISTED.
3. DETAILS SHOWN IN THESE DRAWINGS APPLY TO INSTALLATIONS INDICATED REGARDLESS AS TO IF THEY ARE SPECIFICALLY REFERENCED ELSEWHERE IN THE DRAWING SET. ANY QUESTIONS ON THEIR APPLICABILITY SHOULD BE SENT TO THE ENGINEER PRIOR TO BIDDING.
4. CONTRACTOR SHALL VISIT JOB SITE PRIOR TO BIDDING AND VERIFY EXISTING CONDITIONS AND REQUIRED WORK TO ACCOMPLISH CONSTRUCTION AS DEPICTED IN DESIGN DRAWINGS.
5. ON NEW WORK PLAN, ALL ITEMS SHOWN LIGHT ARE EXISTING TO REMAIN. ALL ITEMS SHOWN BOLD ARE NEW/RELOCATED.
6. COORDINATE ELECTRICAL DEVICE INSTALLATIONS WITH FINAL ARCHITECTURAL PLANS AND ELEVATIONS.
7. ALL RECEPTACLES, SWITCHES AND JUNCTION BOXES SHALL BE LABELED WITH PANEL NAME AND CIRCUIT NUMBER PER OWNER'S STANDARD.
8. PROVIDE FIRE STOPPING AT ALL CONDUIT PENETRATIONS AND CONDUIT SLEEVES THROUGH EXISTING FLOOR SLABS AND FIRE RATED WALLS TO MAINTAIN REQUIRED FIRE RATING. USE UL LISTED METHODS AND MATERIALS.
9. NOT ALL BRANCH CIRCUIT CONDUIT AND WIRE IS SHOWN. ONLY PANEL NAMES AND CIRCUIT NUMBERS ARE SHOWN ADJACENT TO DEVICES. THE REMAINING BRANCH CIRCUIT CONDUIT AND WIRES SHALL BE INSTALLED ACCORDING TO SPECIFICATIONS.
10. ALL RECEPTACLES WITHIN 6 FT OF SINKS SHALL BE GFI TYPE.

LIGHTING NOTES:

1. DESIGNATED NIGHT LIGHTS (NL) USED FOR EMERGENCY EGRESS LIGHTS OR CRITICAL LIGHTS INTENDED TO REMAIN ON SHALL BE UNSWITCHED UNLESS OTHERWISE NOTED.
2. SWITCHES IN EACH ROOM SHALL CONTROL LIGHTS IN THAT ROOM ONLY UNLESS OTHERWISE NOTED.

SYSTEM NOTES:

1. COORDINATE LOW VOLTAGE DEVICE LOCATIONS WITH FINAL ARCHITECTURAL PLANS AND ELEVATIONS.
2. FOR TELEPHONE/DATA OUTLETS, EC SHALL ROUGH-IN DUPLEX BOX WITH SINGLE PLASTER RING, 1" CONDUIT TO 6" ABOVE ACCESSIBLE CEILING WITH 90 DEGREE SWEEP AND BUSHING.
3. REFER TO LOW VOLTAGE MATRIX ON SHEET E004 FOR LIST OF RESPONSIBILITY.

ELECTRICAL LEGEND

NOT ALL SYMBOLS AND ABBREVIATIONS ARE USED

ELECTRICAL SYSTEM COMPONENTS EARTHQUAKE LOAD RESISTANCE

OCCUPANCY CATEGORY (II) — **SEISMIC DESIGN CATEGORY (C)**

LISTING OF EQUIPMENT & SYSTEM COMPONENTS	ANCHORAGE TO FLOORS, ROOF, ETC.		SWAY BRACING		LOCATION OF PROFESSIONALLY-SEALED ANCHORAGE AND SWAY BRACING DETAILS		COMMENTS
					ON CONSTRUCTION DOCUMENTS	SUBSEQUENT SUBMITTAL SEPARATE PERMIT AND PLANS	
	NOT PROVIDED	PROVIDED	NOT PROVIDED	PROVIDED	DRAWING NO. OR SPEC. SECTION		
FIRE PROTECTION, DETECTION & ALARM Ip=1.5							
FIRE ALARM PANEL		X	X			X	
FIRE ALARM WIRING		X	X			X	
EMERGENCY OR STANDBY EQUIPMENT AND SYSTEM COMPONENTS Ip=1.5							
EMERGENCY GENERATOR		X	X			X	
AUTOMATIC TRANSFER SWITCH		X	X			X	
EMERGENCY LIGHTING FIXTURES		X		X			
CONDUIT AND WIRING		X		X		X	
OTHER EQUIPMENT AND SYSTEM COMPONENTS NEEDED FOR CONTINUED OPERATION OF SEISMIC USE GROUP IV FACILITIES, OR WHOSE FAILURE COULD IMPAIR THEIR CONTINUED OPERATION Ip=1.0							
OTHER GENERAL EQUIPMENT & SYSTEM COMPONENTS							
MAIN SWITCHGEAR		X	X			X	
TRANSFORMERS		X	X				
DISTRIBUTION PANELBOARDS		X	X			X	
LIGHTING FIXTURES		X		X		X	
CONDUIT AND WIRING		X		X		X	

EXPLANATORY NOTES:
1. CONTRACTOR SHALL ADHERE TO REQUIREMENTS FOR EXEMPTION, WHERE NOTED, OR PROVIDE SEISMIC BRACING DESIGNED BY A QUALIFIED ENGINEER LICENSED IN THE PROJECT'S STATE.

EXEMPTION NOTES:
1. SEISMIC DESIGN CATEGORY B - ASCE 7-22 TABLE 13.1-1
2. SEISMIC DESIGN CATEGORY C, THE COMPONENT IMPORTANCE FACTOR Ip=1.0, AND THE COMPONENT IS POSITIVELY ATTACHED TO THE STRUCTURE. ASCE 7-22 TABLE 13.1-1.
3. SEISMIC DESIGN CATEGORY C, D, E, OR F AND THE COMPONENT WEIGHS 20 LBS OR LESS. ASCE 7-22 TABLE 13.1-1.
4. SEISMIC DESIGN CATEGORY D, E, OR F, AND THE COMPONENT IMPORTANCE FACTOR Ip=1.0, AND THE CENTER OF MASS IS 4 FT OR LESS ABOVE THE FLOOR, AND THE COMPONENT WEIGHS 400LBS OR LESS, AND FLEXIBLE CONNECTIONS ARE PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT, ASCE 7-22 TABLE 13.1-1.
5. SEISMIC DESIGN CATEGORY D, E, OR F, AND THE COMPONENT IMPORTANCE FACTOR Ip=1.0, AND FOR DISTRIBUTION SYSTEMS THE OPERATING WEIGHT OF THE SYSTEM IS 5LB/FT OR LESS. ASCE 7-22 TABLE 13.1-1
6. LIGHT FIXTURES, SIGN AND CEILING FANS (ASCE 7-22 13.6.1) - NOT CONNECTED TO DUCTS OR PIPING, SUPPORTED BY CHAINS OR OTHERWISE SUSPENDED FROM THE STRUCTURE, PROVIDED ALL OF THE FOLLOWING CRITERIA ARE MET:
   a. THE DESIGN LOAD FOR SUCH ITEMS SHALL BE EQUAL TO 1.4 TIMES THE OPERATING WEIGHT ACTING DOWN WITH A SIMULTANEOUS HORIZONTAL LOAD EQUAL TO 1.4 TIMES THE OPERATING WEIGHT. THE HORIZONTAL LOAD SHALL BE APPLIED IN THE DIRECTION THAT RESULTS IN THE MOST CRITICAL LOADING FOR DESIGN.
   b. SEISMIC INTERACTION EFFECTS SHALL BE CONSIDERED PER SECTION 13.2.4 OF ASCE 7-22
   c. THE CONNECTION TO THE STRUCTURE SHALL ALLOW A 360 DEGREE RANGE OF MOTION IN THE HORIZONTAL PLANE.
7. CONDUIT, CABLE TRAY AND RACEWAYS, Ip=1.0, FLEXIBLE CONNECTIONS PROVIDED BETWEEN CABLE TRAY OR RACEWAY AND ASSOCIATED COMPONENTS WHERE THE CABLE TRAY OR RACEWAY IS POSITIVELY ATTACHED TO THE STRUCTURE, (ASCE 7-22 SECTION 13.6.5 EXCEPTION 1) AND:
   a. TRAPEZE ASSEMBLIES ARE USED WITH 3/8-IN DIAMETER ROD HANGERS NOT EXCEEDING 12 IN. IN LENGTH FROM THE CONDUIT, CABLE TRAY, OR RACEWAY SUPPORT POINT TO THE CONNECTION AT THE SUPPORTING STRUCTURE TO SUPPORT RACEWAYS, AND THE TOTAL WEIGHT SUPPORTED BY ANY SINGLE TRAPEZE IS 100 LB OR LESS, OR
   b. TRAPEZE ASSEMBLIES WITH 1/2-IN DIAMETER ROD HANGERS NOT EXCEEDING 12IN. IN LENGTH FROM THE CONDUIT, CABLE TRAY, OR RACEWAY SUPPORT POINT TO THE CONNECTION AT THE SUPPORTING STRUCTURE ARE USED TO SUPPORT THE CABLE TRAY OR RACEWAY, AND THE TOTAL WEIGHT SUPPORTED BY ANY SINGLE TRAPEZE IS 200LB (890 N) OR LESS, OR
   c. TRAPEZE ASSEMBLIES WITH 1/2-IN DIAMETER ROD HANGERS NOT EXCEEDING 24 IN. IN LENGTH FROM THE CONDUIT, CABLETRAY, OR RACEWAY SUPPORT POINT TO THE CONNECTION AT THE SUPPORTING STRUCTURE ARE USED TO SUPPORT THE CABLE TRAY OR RACEWAY, AND THE TOTAL WEIGHT SUPPORTED BY ANY SINGLE TRAPEZE IS 100 LB (445 N) OR LESS, OR
   d. THE CONDUIT, CABLE TRAY OR RACEWAY IS SUPPORTED BY INDIVIDUAL ROD HANGERS 3/8IN OR 1/2-IN IN DIAMETER, AND EACH HANGER IN THE RACEWAY RUN IS 12 IN. OR LESS IN LENGTH FROM THE CONDUIT, CABLE TRAY, OR RACEWAY SUPPORT POINT CONNECTION TO THE SUPPORTING STRUCTURE, AND THE TOTAL WEIGHT SUPPORTED BY ANY SINGLE ROD IS 50 LB OR LESS.
8. DESIGN FOR THE SEISMIC FORCES AND RELATIVE DISPLACEMENTS OF SECTION 13.3 SHALL NOT BE REQUIRED FOR CONDUIT, REGARDLESS OF THE VALUE OF Ip, WHERE THE CONDUIT IS LESS THAN 2.5 IN (64MM) TRADE SIZE. (ASCE 7-22 SECTION 13.6.5 EXCEPTION 2.)

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CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE
ST. PETERS, MO 63376
3803/3405 ECOLOGY DRIVE

No.	Date	Revision

ELECTRICAL SYMBOLS & ABBREVIATIONS

Project No. 23121
Sheet No. E001
Date 09/16/2025

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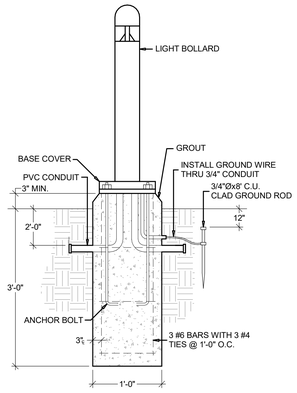

BOLLARD LIGHT BASE DETAIL
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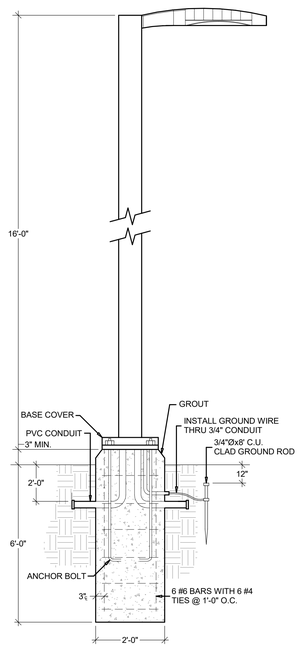

POLE MOUNTED FIXTURE MOUNTING DETAIL
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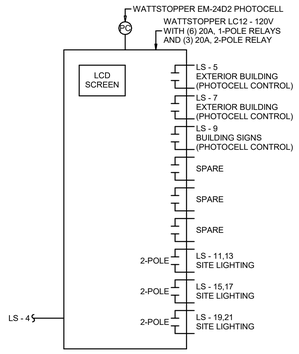
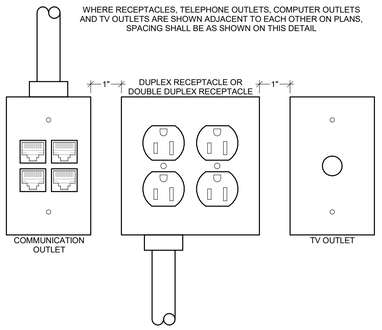


LIGHTING CONTROL PANEL
SCALE: N.T.S.

FIRE ALARM SYSTEM FUNCTION CHART
The System will Function as Shown in the Function Chart Below:

FIRE ALARM SYSTEM FUNCTION CHART: OUTPUT \ INPUT	Smoke Detector(s) (General Area)	Duct Detector(s)	Manual Pull Station(s) (General Area)	Waterflow Switch(es)	Tamper Switch(es)	Any Trouble on System	PIV	Manual Pull Station(s) (Kitchen Hood)				
Annunciate Zone/Device on Fire Alarm Control Panel/Annunciators	●	●	●	●	●	●	●	●				
Activate Digital Communicator Contact for Alarm Condition	●	○	●	●	○	○	○	●				
Activate Digital Communicator Contact for Trouble Condition	○	○	○	○	○	●	○	○				
Activate Digital Communicator Contact for Supervisory Condition	○	●	○	○	●	○	●	○				
Activate Audible/Visual Devices	●	○	●	●	○	○	○	●				
Shutdown Air Handler Unit(s) (RTU, OA, FCU's)	●	●	●	●	○	○	○	●				
Unlock Exits	●	○	●	●	○	○	○	●				
Shutdown Power To Cooking Appliances Under Hood	○	○	○	○	○	○	○	●				
Shutdown Power To Kitchen Hood Lighting	○	○	○	○	○	○	○	●				
Shutdown Power To Kitchen Hood Makeup Air Unit	○	○	○	○	○	○	○	●				
Shutdown Gas to Affected Cooking Lines	○	○	○	○	○	○	○	●				
Activate Exterior Horn/Strobe	○	○	○	●	○	○	○	○				



MULTIPLE OUTLET INSTALLATION
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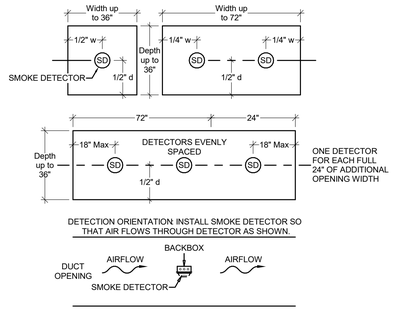

DUCT MOUNTED SMOKE DETECTOR DETAIL
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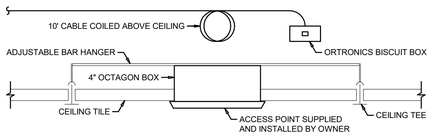

TYPICAL WIRELESS ACCESS POINT (WAP) INSTALLATION DETAIL
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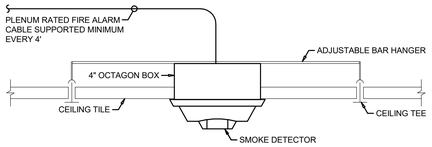

TYPICAL SMOKE DETECTOR INSTALLATION DETAIL
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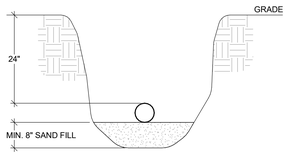
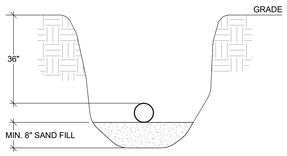


TYPICAL CONDUIT BURIAL DETAIL
SCALE: N.T.S.



SERVICE ENTRANCE CONDUIT BURIAL DETAIL
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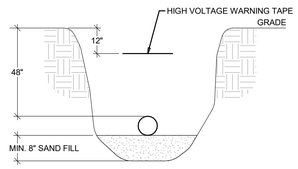

PRIMARY CONDUIT BURIAL DETAIL
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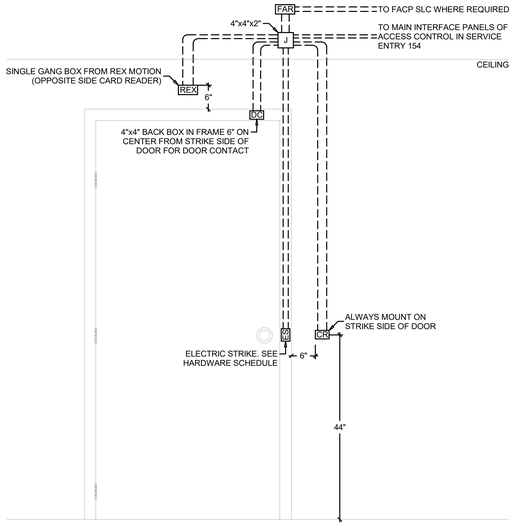
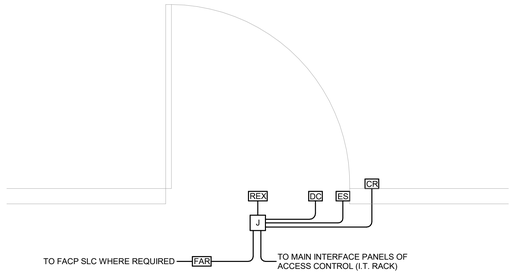


SECURE SIDE ELEVATION



DEVICE WIRING DETAIL

ACCESS CONTROL DETAIL
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ELECTRICAL DETAILS

Project No. 23121

Sheet No. E002

Date 09/16/2025

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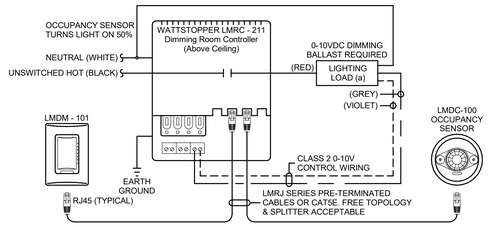
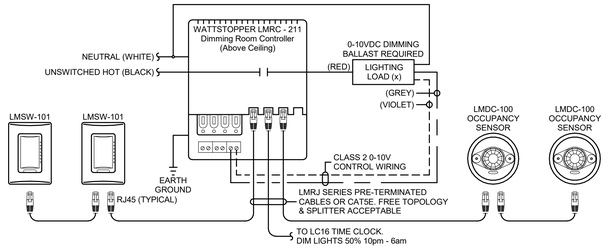


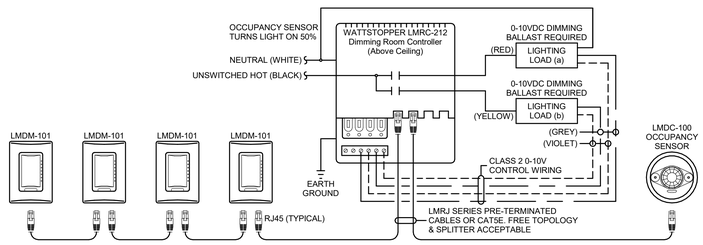
TYPICAL OCCUPANCY SENSOR SCHEMATIC

SCALE: N.T.S.



TYPICAL CORRIDOR LIGHTING CONTROL WIRING SCHEMATIC

SCALE: N.T.S.



TYPICAL CONFERENCE ROOM LIGHTING CONTROL WIRING SCHEMATIC

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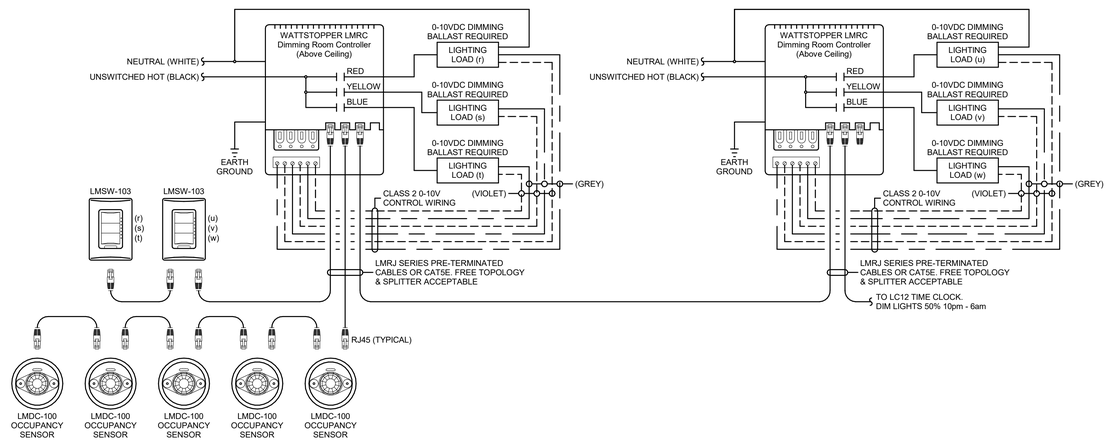

MAINTENANCE BUILDING SERVICE BAYS OCCUPANCY SENSOR SCHEMATIC

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ELECTRICAL DETAILS

Project No. 23121

Sheet No. E003

Date 09/16/2025

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HQ Building
Network Equipment and Hardware

Hardware	Purpose	Provided By	Installed By
Network Rack / Cabinet (2)	Mount Network Equipment and Wiring	FeatherShark	Electrical Contractor
Starlink Sattelite (1)	Provide Backup Internet to Building	FeatherShark	Electrical Contractor
Unifi U7 Pro Access Points (7)	Provide WiFi to Building	FeatherShark	Electrical Contractor
Unifi U7 Pro Outdoor (1)	Beam to the Maintenance Building	FeatherShark	Electrical Contractor
Unifi Dream Machine Pro (1)	Runs Internal Network	FeatherShark	FeatherShark
Unifi Pro Switches (4x48)	Runs Internal Network	FeatherShark	FeatherShark
Unifi Patch Cables (4x48)	Uplink Patch Panel Cat6 Ports to each Switch	FeatherShark	FeatherShark
Network UPS / Battery Backup (2)	Power backup for Network Equipment	FeatherShark	FeatherShark
VoIP Phones (TBD)	Telecomm Service for the Building	FeatherShark	FeatherShark
Patch Panel	Consolidate and Organize Network Wiring	Electrical Contractor	Electrical Contractor
Fiber from HQ to Maintenance	Network Uplink	Electrical Contractor	Electrical Contractor
Wall and Floor Jacks	Terminate Network Wiring	Electrical Contractor	Electrical Contractor
Cat6 Cabling	Network Wiring	Electrical Contractor	Electrical Contractor

Camera Security

Hardware	Purpose	Provided By	Installed By
Unifi AI Pro Cameras - Black (13)	Exterior Building Cameras	FeatherShark	Electrical Contractor
Unifi AI Turret Cameras - White (4)	Interior Building Cameras	FeatherShark	Electrical Contractor
Unifi AI 360 Cameras - White (2)	Fisheye Cameras	FeatherShark	Electrical Contractor
Unifi Viewport (1)	Camera Viewing Solution	FeatherShark	Electrical Contractor
Unifi NVR Pro (1)	Camera Recording and Management	FeatherShark	FeatherShark

Door Access and Gates

Hardware	Purpose	Provided By	Installed By
Unifi Reader Pro (27)	Keypad Readers for Exterior Doors	FeatherShark	Electrical Contractor
Unifi Enterprise Access Hub (5)	Manage Door Access and Door Strikes	FeatherShark	Electrical Contractor
Unifi Gate Hub (5)	Manage Gate Access	FeatherShark	Electrical Contractor
Unifi Reader Pro Junction Box (27)	Mount Exterior Keypad Readers	FeatherShark	Electrical Contractor
Unifi Intercom Viewer (2)	View and Allow Entry to Visitors	FeatherShark	Electrical Contractor
Unifi Intercom Viewer Table Stand (2)	Mount Unifi Intercom at the Reception Area	FeatherShark	FeatherShark
Electronic Door Strikes / Contacts	Connect Door Latches to Door Access System	Electrical Contractor	Electrical Contractor
18/4 Cabling	Door Strike Wiring	Electrical Contractor	Electrical Contractor
Cat6 Cabling	Door Equipment Wiring	Electrical Contractor	Electrical Contractor

TV Monitors

Hardware	Purpose	Provided By	Installed By
Samsung 65" TV (14)	Multi Purpose TV Monitor	FeatherShark	Electrical Contractor
Samsung 85" TV (3)	Conference Room and Breakout Room TV Monitor	FeatherShark	Electrical Contractor
Samsung 43" TV (7)	Vestibule Board Agenda TV - Vertically Mounted and Office Front Wall TV	FeatherShark	Electrical Contractor
Full Articulating TV Mount (26)	Mount Multi Purpose TVs to Wall Locations	FeatherShark	Electrical Contractor
Samsung 65" TV (2)	Warm Training Room TVs	FeatherShark	FeatherShark
TV Cart (2)	Warm Training Room TVs	FeatherShark	FeatherShark

Conference and Breakout Room

Hardware	Purpose	Provided By	Installed By
Logitech Rally Bar Mini (2)	Camera and Speaker Solution - Conference and Breakout Room	FeatherShark	Electrical Contractor
Logitech Tap IP (2)	Room Controller - Conference and Breakout Room	FeatherShark	FeatherShark

HQ Building
Network Equipment and Hardware

Cat6 Wall Locations to be terminated into a standard wall plate floor height and home run to the main IT Closet (137)
Cat6 TV locations as indicated to have Cat6 drop TV height (+66") and home run to the main IT Closet (137)
Access Points will be ceiling mounted with Cat6 that home runs to the main IT Closet (137)
Floor mounted Cat6 cabling as indicated will also home run to main IT Closet (137)
Floor mounted Cat6 in the Conference and Breakout Rooms will have one cable that terminates to behind each TV location
Marked AP Location will serve as a mounted Beam from HQ to Training Tower - exterior mounted in a Junction Box
Starlink Satelite will be roof mounted with proprietary cable running into the main IT Closet (137)
Uplink from HQ to Maintenance will need 2 x Fiber Cabling

Camera Security

Cameras will need Cat6 cabling home runs to main IT Closet (137)
Viewport will need Cat6 cabling for PoE power mounted TV height that home runs in main IT Closet (137) as shown on Network page
Off Map Cameras will be Pole mounted in the parking lot and will home run Cat6 to the main IT Closet for a max length of 300ft
ALL Cat6 Cabling to home run in Patch Panel

Door Access and Gates

Any door with a Card Reader or Keypad Reader will need a 18/4 Cable that home runs to the main IT Closet (137)
Any Gate will need a 2 x 18/4 cable that home runs to the main IT Closet (137) with seperate conduits
Any Gate will need a 2 x 120V power connection to run the gate equipment and Access hardware with seperate conduits
Any Gate will need 2 x fiber connection due to distance from the IT Closet (137) to the gate pedestal with seperate conduits
All 18/4 Cable will be wired to the Enterprise Access Hub or the Gate Hub for functionality
Keypad Readers and Card Readers will need Cat6 Cabling that home runs to the main IT Closet (137)
Intercom Viewers will be wall-mounted in the hallway or table mounted at reception and need Cat6 cabling that home runs to the main IT Closet (137)
ALL Cat6 Cabling to home run in Patch Panel

TV Monitors

Locations marked for LiveDash, BoardDash, and Airtames will need Cat6 cabling that home runs to the Main IT Closet (137) as noted in the Network page

Conference and Breakout Room

Each TV Location in the Conference Room will need Cat6 drops from behind each TV that terminates to floor mount jack under the Main Conference Table
The TV Location in the Breakout Room will need Cat6 drops from behind each TV that terminates to floor mount jack under the Breakout Room TV
Each TV Location will need Cat6 drops from behind each TV that home runs to the Main IT Closet (137) as noted in Network page
Camera and Speaker will be a combo unit mounted under the North TV

Admin Training Room
Equipment and Hardware

Hardware	Purpose	Provided By	Installed By
Yealink Team Room System for ProAV	Camera and Controller Hardware for Room	FeatherShark	Electrical Contractor
Yealink Ceiling Microphone (3)	Mic Coverage for Room	FeatherShark	Electrical Contractor
Yealink Ceiling Speaker (12)	Speaker Coverage for Room	FeatherShark	Electrical Contractor
Samsung 85" TV (6)	Room Side Displays	FeatherShark	Electrical Contractor
Full Articulating TV Mount (6)	Room Side Displays	FeatherShark	Electrical Contractor
Network Rack / Cabinet	Mount Network Equipment and Wiring	FeatherShark	Electrical Contractor
8x8 HDMI Matrix	Display and Input Management	FeatherShark	FeatherShark
Network UPS / Battery Backup	Power backup for Network Equipment	FeatherShark	FeatherShark
Yealink Digital Signal Processor	Room Audio Controller	FeatherShark	FeatherShark
Unifi Pro 24 Port Switch	PoE Power to Room Hardware	FeatherShark	FeatherShark
Video Wall	Main Center Room Display	ForgeLEDDisplays	FeatherShark / VHSSTL

Admin Training Room
Equipment and Hardware

Room will be configured in two sections that can be combined to use as one large room, notated by the Yellow Square (Room 1), Blue Square (Room 2), and the Green Square (Combined Room 3)

All Equipment (Speakers, Mic, Cameras) will need Cat6 Cabling that terminates to a patch at the AV Rack in Storage (108)
All Equipment (Speakers, Mic, Cameras) will be ceiling mounted
All TV locations will need power mounted TV height and Cat6 Cabling that terminates to a patch at the AV Rack
The two Room Controllers will need Cat6 cabling that terminates to the AV Rack in Storage (108)
The Video wall will need 5 x Cat6 Cabling that terminates to the AV Rack and additional power requirements for the screen
Cabling and power for the video wall will be installed by the electrical contractor, the video wall will be installed by FeatherShark
Video Wall Cabling Requirements:

Data:
5 runs of 1Gb CAT6 ethernet cables ran no more than 328' in length from from the display to AV Rack in Storage (108)
Power Requirements:
[Residential]: 2ea 15AMP 120V circuit each executed as 1 whip per circuit, or 1ea 20AMP 120V circuit executed as 2 whips per circuit.
[Commercial]: 1ea Single-Phase 20AMP 208V circuit executed as 2 whips per circuit, or 1ea Single-Phase 20AMP 240V circuit executed as 2 whips per circuit
[Commercial]: 1ea Single-Phase 30AMP 208V circuit executed as 2 whips per circuit, or 1ea Single-Phase 30AMP 240V circuit executed as 2 whips per circuit

Video Wall Contact Info:
Matthew Gerber
314.795.2903
mgerber@forgeleddisplays.com

EQUIPMENT DATA SCHEDULE

MARK	EQUIPMENT	LOCATION	FURNISHED BY	MOTOR OR EQUIPMENT DATA			DISCONNECT SWITCH AT EQUIPMENT			STARTER				REMOTE CONTROLS			REMARKS
				HP/kW/MCA (1)	VOLTS/PHASE	INST. BY / CONN. BY	TYPE (2)	FURN. BY	INST. BY / CONN. BY	TYPE (3)	ACCESSORIES (4)	FURN. BY	INST. BY / CONN. BY	TYPE (5)	FURN. BY	INST. BY CONN. BY	
AHU 01	AIR HANDLING UNIT	MAINTENANCE	23	4 MCA	208/3	23/26	M	26									
CU 01	CONDENSING UNIT	HEADQUARTERS ROOF	23	23 MCA	208/1	23/26	F	26	26/26	PWCP	-	23	23/23	SS	23	23/23	
CU 02	CONDENSING UNIT	HEADQUARTERS ROOF	23	23 MCA	208/1	23/26	F	26	26/26	PWCP	-	23	23/23	SS	23	23/23	
CU 03	CONDENSING UNIT	MAINTENANCE EXTERIOR	23	24 MCA	208/3	23/26	F	26	26/26	PWCP	-	23	23/23	SS	23	23/23	
EC 01	ELECTRIC HEATER	MAINTENANCE	23	26 MCA	208/3	23/26	TS	23	26/26	PWCP	-	23	23/23	SS	23	23/23	
EF 01	EXHAUST FAN	HEADQUARTERS ROOF	23	1.9 MCA	120/1	23/26	M	23	26/26	-	-	-	-	SS	23	23/23	
EF 02	EXHAUST FAN	HEADQUARTERS MAIN LEVEL CEILING	23	0.7 MCA	120/1	23/26	M	23	26/26	-	-	-	-	SS	23	23/23	
EF 03	EXHAUST FAN	HEADQUARTERS ROOF	23	1.6 MCA	120/1	23/26	M	23	26/26	-	-	-	-	SS	23	23/23	
EF 04	EXHAUST FAN	MAINTENANCE	23	3.5 MCA	120/1	23/26	M	23	26/26	-	-	-	-	SS	23	23/23	
EF 05	EXHAUST FAN	MAINTENANCE	23	3.5 MCA	120/1	23/26	M	23	26/26	-	-	-	-	SS	23	23/23	
EF 06	EXHAUST FAN	MAINTENANCE	23	20 MCA	120/1	23/26	M	23	26/26	-	-	-	-	SS	23	23/23	
EF 07	EXHAUST FAN	MAINTENANCE	23	0.2 MCA	120/1	23/26	M	23	26/26	-	-	-	-	SS	23	23/23	
EF 08	EXHAUST FAN	MAINTENANCE	23	0.2 MCA	120/1	23/26	M	23	26/26	-	-	-	-	SS	23	23/23	
EF 09	EXHAUST FAN	MAINTENANCE	23	8.2 MCA	120/1	23/26	M	23	26/26	-	-	-	-	SS	23	23/23	
EF 10	EXHAUST FAN	MAINTENANCE	23	1.9 MCA	120/1	23/26	M	23	26/26	-	-	-	-	SS	23	23/23	
ERH 01	ELECTRIC RADIANT HEATER	HEADQUARTERS MAIN LEVEL	23	6.1 MCA	208/1	23/26	TS	26	26/26	PWCP	-	23	23/23	SS	23	23/23	
ERH 02	ELECTRIC RADIANT HEATER	HEADQUARTERS MAIN LEVEL	23	6.1 MCA	208/1	23/26	TS	26	26/26	PWCP	-	23	23/23	SS	23	23/23	
EUH 01	ELECTRIC UNIT HEATER	MAINTENANCE	23	30.1 MCA	208/1	23/26	TS	23	26/26	PWCP	-	23	23/23	SS	23	23/23	
IRH 01	RADIANT HEATER	MAINTENANCE	23	1 A	120/1	23/26	TS	26	26/26	PWCP	-	23	23/23	SS	23	23/23	
IRH 02	RADIANT HEATER	MAINTENANCE	23	1 A	120/1	23/26	TS	26	26/26	PWCP	-	23	23/23	SS	23	23/23	
IRH 03	RADIANT HEATER	MAINTENANCE	23	1 A	120/1	23/26	TS	26	26/26	PWCP	-	23	23/23	SS	23	23/23	
IRH 04	RADIANT HEATER	MAINTENANCE	23	1 A	120/1	23/26	TS	26	26/26	PWCP	-	23	23/23	SS	23	23/23	
IRH 05	GAS RADIANT HEATER	HEADQUARTERS PATIO	23		120/1	23/26	TS	26	26/26	PWCP	-	23	23/23	SS	23	23/23	
IRH 06	GAS RADIANT HEATER	HEADQUARTERS PATIO	23		120/1	23/26	TS	26	26/26	PWCP	-	23	23/23	SS	23	23/23	
IRH 07	GAS RADIANT HEATER	HEADQUARTERS PATIO	23		120/1	23/26	TS	26	26/26	PWCP	-	23	23/23	SS	23	23/23	
KEF 01	KITCHEN EXHAUST FAN	HEADQUARTERS ROOF	23	11.6 FLA	120/1	23/26	M	26	26/26	-PWCP	-	-	-	SS	23	23/23	
KEH 01	KITCHEN HOOD	HEADQUARTERS MAIN LEVEL	23	15 A	120/1	23/26	M	26	26/26	PWCP	-	23	23/23	SS	23	23/23	
MAU 01	MAKEUP AIR UNIT	HEADQUARTERS ROOF	23	22.9 MCA	208/3	23/26	F	26	26/26	PWCP	-	23	23/23	SS	23	23/23	
PAC 01	PACKAGED AIR CONDITIONER	HEADQUARTERS MAIN LEVEL CEILING	23	VIA CU-01	208/1	23/26	M	26	26/26	PWCP	-	23	23/23	SS	23	23/23	CONNECT TO CU-01
PAC 02	PACKAGED AIR CONDITIONER	HEADQUARTERS MAIN LEVEL CEILING	23	VIA CU-02	208/1	23/26	M	26	26/26	PWCP	-	23	23/23	SS	23	23/23	CONNECT TO CU-02
RTU 01	ROOF TOP UNIT	HEADQUARTERS ROOF	23	151 MCA	208/3	23/26	F	26	26/26	PWCP	-	23	23/23	SS - FAI	23 - 26	23/23 - 26/26	
RTU 02	ROOF TOP UNIT	HEADQUARTERS ROOF	23	182 MCA	208/3	23/26	F	26	26/26	PWCP	-	23	23/23	SS - FAI	23 - 26	23/23 - 26/26	
RTU 03	ROOF TOP UNIT	HEADQUARTERS ROOF	23	46 MCA	208/3	23/26	F	26	26/26	PWCP	-	23	23/23	SS - FAI	23 - 26	23/23 - 26/26	
VAV 01	VARIABLE AIR VOLUME	HEADQUARTERS MAIN LEVEL CEILING	23	2 kW	120/1	23/26	M	26	26/26	PWCP	-	23	23/23	SS	23	23/23	
VAV 02	VARIABLE AIR VOLUME	HEADQUARTERS MAIN LEVEL CEILING	23	5 kW	208/3	23/26	F	26	26/26	PWCP	-	23	23/23	SS	23	23/23	
VAV 03	VARIABLE AIR VOLUME	HEADQUARTERS MAIN LEVEL CEILING	23	4 kW	208/3	23/26	F	26	26/26	PWCP	-	23	23/23	SS	23	23/23	
VAV 04	VARIABLE AIR VOLUME	HEADQUARTERS MAIN LEVEL CEILING	23	3 kW	120/1	23/26	M	26	26/26	PWCP	-	23	23/23	SS	23	23/23	
VAV 05	VARIABLE AIR VOLUME	HEADQUARTERS MAIN LEVEL CEILING	23	5 kW	208/3	23/26	F	26	26/26	PWCP	-	23	23/23	SS	23	23/23	
VAV 06	VARIABLE AIR VOLUME	HEADQUARTERS MAIN LEVEL CEILING	23	2 kW	120/1	23/26	M	26	26/26	PWCP	-	23	23/23	SS	23	23/23	
VAV 07	VARIABLE AIR VOLUME	HEADQUARTERS MAIN LEVEL CEILING	23	1.5 kW	120/1	23/26	M	26	26/26	PWCP	-	23	23/23	SS	23	23/23	
VAV 08	VARIABLE AIR VOLUME	HEADQUARTERS MAIN LEVEL CEILING	23	8 kW	208/3	23/26	F	26	26/26	PWCP	-	23	23/23	SS	23	23/23	
VAV 09	VARIABLE AIR VOLUME	HEADQUARTERS MAIN LEVEL CEILING	23	2 kW	120/1	23/26	M	26	26/26	PWCP	-	23	23/23	SS	23	23/23	
VAV 10	VARIABLE AIR VOLUME	HEADQUARTERS MAIN LEVEL CEILING	23	1 kW	120/1	23/26	M	26	26/26	PWCP	-	23	23/23	SS	23	23/23	
VAV 11	VARIABLE AIR VOLUME	HEADQUARTERS MAIN LEVEL CEILING	23	1 kW	120/1	23/26	M	26	26/26	PWCP	-	23	23/23	SS	23	23/23	
VAV 12	VARIABLE AIR VOLUME	HEADQUARTERS MAIN LEVEL CEILING	23	16 kW	208/3	23/26	F	26	26/26	PWCP	-	23	23/23	SS	23	23/23	
VAV 13	VARIABLE AIR VOLUME	HEADQUARTERS MAIN LEVEL CEILING	23	7 kW	208/3	23/26	F	26	26/26	PWCP	-	23	23/23	SS	23	23/23	
VAV 14	VARIABLE AIR VOLUME	HEADQUARTERS MAIN LEVEL CEILING	23	6.5 kW	208/3	23/26	F	26	26/26	PWCP	-	23	23/23	SS	23	23/23	
VAV 15	VARIABLE AIR VOLUME	HEADQUARTERS MAIN LEVEL CEILING	23	6.5 kW	208/3	23/26	F	26	26/26	PWCP	-	23	23/23	SS	23	23/23	

GENERAL NOTES:
WHEN ELECTRICALLY DRIVEN EQUIPMENT FURNISHED, MATERIALLY DIFFERS FROM THE CONTEMPLATED DESIGN, THE CONTRACTOR SUPPLYING THE DRIVING EQUIPMENT SHALL PAY FOR AND MAKE NECESSARY ADJUSTMENTS TO THE WIRING, DISCONNECT DEVICES AND BRANCH-CIRCUIT PROTECTION TO ACCOMMODATE THE EQUIPMENT ACTUALLY INSTALLED.
11 = EQUIPMENT CONTRACTOR 22 = PLUMBING CONTRACTOR 23 = HVAC CONTRACTOR 26 = ELECTRICAL CONTRACTOR NF = NON-FUSIBLE SWITCH FS = FUSIBLE SWITCH PWCP = PREWIRED CONTROL PANEL
M = MANUAL MOTOR STARTER EC = ELECTRICAL CONTRACTOR MCA = MINIMUM CIRCUIT AMPACITY STCB = SHUNT TRIP CIRCUIT BREAKER

1. MOTOR OR EQUIPMENT DATA HP/kW MCA:
HORSEPOWER (HP) IS SHOWN UNLESS AMPS (A), MINIMUM CIRCUIT AMPACITY (MCA) OR KILOWATTS (KW) ARE CALLED OUT.

2. DISCONNECT SWITCH TYPE:
NF = NON FUSIBLE F = FUSIBLE TS = TOGGLE SWITCH M = MANUAL STARTER

3. STARTER TYPE:
COMB = COMBINATION MAGNETIC FVNR WITH FUSIBLE DISCONNECT SWITCH PWCP = PREWIRED CONTROL PANEL M = MANUAL MOTOR STARTER 2SP = 2 SPEED FVNR = FULL VOLTAGE NON-REVERSIBLE SWITCH
VFD = VARIABLE FREQUENCY DRIVE

4. ACCESSORIES:
HOA = HAND-OFF AUTO SELECTOR SWITCH N.O. = NORMALLY OPEN AUXILIARY CONTACT N.C. = NORMALLY CLOSED AUXILIARY CONTACT P = PILOT LIGHT (GREEN - RUN)

5. REMOTE CONTROL:
AQ = AQUASTAT FAI = FIRE ALARM INTERLOCK SS = SEE MECHANICAL SPECIFICATIONS SP = SINGLE POLE SINGLE THROW TOGGLE WITH PILOT LIGHT TS = THERMOSTAT (LINE VOLTAGE) TC = TIME CLOCK O/A = ON/AUTO SWITCH
O/A/O = ON/AUTO/OFF SWITCH O/A/O/L = OUTSIDE AIR/AUTO/OFF WITH LAMPS TO SHOW POSITION

Maintenance Building
Network Equipment and Hardware

Hardware	Purpose	Provided By	Installed By
Network Rack / Cabinet (1)	Mount Network Equipment and Wiring	FeatherShark	Electrical Contractor
Wireless Access Points (3)	Provide WiFi to Building	FeatherShark	Electrical Contractor
Unifi U7 Pro Outdoor (1)	Beam to the Maintenance Building	FeatherShark	Electrical Contractor
Network Switches (1x48)	Runs Internal Network	FeatherShark	FeatherShark
Unifi Patch Cables (1x48)	Uplink Patch Panel Cat6 Ports to each Switc	FeatherShark	FeatherShark
Network UPS / Battery Backup (1)	Power backup for Network Equipment	FeatherShark	FeatherShark
VoIP Phones (TBD)	Telecomm Service for the Building	FeatherShark	FeatherShark
Patch Panel	Consolidate and Organize Network Wiring	Electrical Contracto	Electrical Contractor
Fiber from HQ to Maintenance	Network Uplink	Electrical Contracto	Electrical Contractor
Wall Jacks	Terminate Network Wiring	Electrical Contracto	Electrical Contractor
Cat6 Cabling	Network Wiring	Electrical Contracto	Electrical Contractor

Camera Security

Hardware	Purpose	Provided By	Installed By
Unifi AI Pro Cameras - Black (8)	Exterior Building Cameras	FeatherShark	Electrical Contractor
Unifi Viewport (2)	Camera Viewing Solution	FeatherShark	Electrical Contractor
Unifi NVR Pro (1)	Camera Recording and Management	FeatherShark	FeatherShark

Door Access and Gates

Hardware	Purpose	Provided By	Installed By
Unifi Reader Pro (4)	Keypad Readers for Exterior Doors	FeatherShark	Electrical Contractor
Unifi Enterprise Access Hub (1)	Manage Door Access and Door Strikes	FeatherShark	Electrical Contractor
Unifi Reader Pro Junction Box (4)	Mount Exterior Keypad Readers	FeatherShark	Electrical Contractor
Unifi Intercom Viewer (1)	View and Allow Entry to Visitors	FeatherShark	FeatherShark
Electronic Door Strikes / Contacts	Connect Door Latches to Door Access Syst	Electrical Contracto	Electrical Contractor
18/4 Cabling	Door Strike Wiring	Electrical Contracto	Electrical Contractor
Cat6 Cabling	Door Equipment Wiring	Electrical Contracto	Electrical Contractor

TV Monitors

Hardware	Purpose	Provided By	Installed By
Samsung 65" TV (2)	Multi Purpose TV Monitor	FeatherShark	Electrical Contractor
Full Articulating TV Mount (2)	Mount Multi Purpose TVs to Wall Locations	FeatherShark	Electrical Contractor

Maintenance Building
Network Equipment and Hardware

All Cat6 Locations to be terminated into a standard wall plate floor height and home run to the main Electrical Room (101)
Noted TV Height Cat6 Jack Locations to each TV location to have Cat6 drop TV height (+66") and home run to the main Electrical Room (101)
Access Point in the Office will be ceiling mounted with Cat6 that home runs to the main Electrical Room (101)
Access Points in the bays will be wall mounted 88-96" high and home run to the Electrical Room (101)
Marked AP Location will serve as a mounted Beam from Maintenance to Training Tower - exterior mounted to a Junction Box
Uplink from HQ to Maintenance will need 2 x Fiber Cabling with seperate conduits
ALL Cat6 Cabling to home run in Patch Panel

Camera Security

Cameras will need Cat6 cabling home runs to main Electrical Room (101)
Viewport will need Cat6 cabling for PoE power mounted TV height that home runs in main Electrical Room (101)
ALL Cat6 Cabling to home run in Patch Panel

Door Access

Any door with a Card Reader or Keypad Reader will need a 18/4 cable that home runs to the main Electrical Room (101)
Keypad Readers and Card Readers will need Cat6 Cabling that home runs to the main Electrical Room (101)
18/4 Cable will be wired to Enterprise Access Hub for functionality
Intercom Viewers will be wall-mounted and need Cat6 cabling that home runs to the main Electrical Room (101)
ALL Cat6 Cabling to home run in Patch Panel

TV Monitors

Locations marked for Airtames and LiveDash will need Cat6 cabling that home runs to the Main IT Closet (137) as noted in the Network page

Archimages architecture | interiors
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314-531-4010 FAX: 314-531-4019 WWW.HORNERSHIFRIN.COM
DISCIPLINE: PROFESSIONAL ENGINEERING
CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2026

Proposed:
CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE
360/340 ECOLOGY DRIVE
ST. PETERS, MO 63376

No.	Date	Revision

ELECTRICAL SCHEDULES & LV MATRIX

Project No.
23121

Sheet No.
E004

Date
09/16/2025

SCALE: 3" = 1'-0" 0 3" 6" 1'
SCALE: 1 1/2" = 1'-0" 0 3" 6" 1' 2'
SCALE: 1" = 1'-0" 0 6" 1' 2'
SCALE: 3/4" = 1'-0" 0 1' 2' 3'
SCALE: 1/2" = 1'-0" 0 1' 2' 4'
SCALE: 3/8" = 1'-0" 0 2' 4' 6'
SCALE: 1/4" = 1'-0" 0 2' 4' 8'
SCALE: 1/8" = 1'-0" 0 4' 8' 16'
SCALE: 3/32" = 1'-0" 0 8' 16' 24'
SCALE: 1/16" = 1'-0" 0 8' 16' 32'

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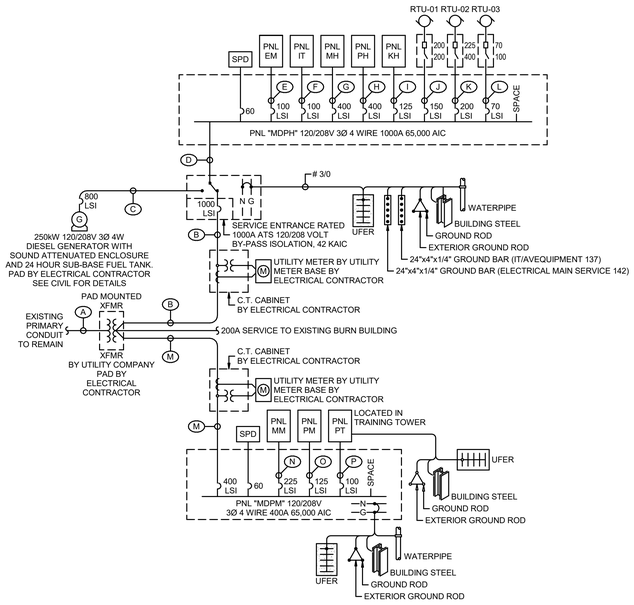
FEEDER SCHEDULE

MARK	CONDUCTOR	CONDUIT	FROM	TO
A	By Utility	Existing	UTILITY	Pad Mounted XFMR
B	3 Sets 4 #400	4" Each Set	Pad Mounted XFMR	1000A ATS
C	2 Sets 4 #600 1 #1/0 G	4" Each Set	1000A ATS	Generator
D	3 Sets 4 #400 1 #2/0 G	4" Each Set	1000A ATS	Panel MDPH
E	4 #3 1 #8 G	1-1/4"	Panel MDPH	Panel EM
F	4 #3 1 #8 G	1-1/4"	Panel MDPH	Panel IT
G	2 Sets 4 #3/0 1 #6 G	2" Each Set	Panel MDPH	Panel MH
H	2 Sets 4 #3/0 1 #6 G	2" Each Set	Panel MDPH	Panel PH
I	4 #1 1 #6 G	1-1/2"	Panel MDPH	Panel KH
J	3 #3/0 1 #6 G	2"	Panel MDPH	RTU-01
K	3 #4/0 1 #4 G	2"	Panel MDPH	RTU-02
L	3 #4 1 #8 G	1"	Panel MDPH	RTU-03
M	2 Sets 4 #3/0	2" Each Set	Pad Mounted XFMR	Panel MDPM
N	4 #4/0 1 #4 G	2-1/2"	Panel MDPM	Panel MM
O	4 #1 1 #6 G	1-1/2"	Panel MDPM	Panel PM
P	4 #3 1 #8 G	1-1/4"	Panel MDPM	Panel PT



ONE-LINE DIAGRAM

SCALE: N.T.S.

LIGHT FIXTURE SCHEDULE

MARK	MANUFACTURER	CATALOG	APPARENT LOAD	LAMP TYPE	FINISH	MOUNTING	REMARKS
A1	Metalux	24CZ-LD5-45-UNV-L835-CD1-U-EQCL IP	35 VA	LED	White	Recessed	
A1E	Metalux	24CZ-LD5-45-UNV-EL14W-L835-CD1-U-EQCLIP	35 VA	LED	White	Recessed	
A2	Metalux	24CZ-LD5-65-UNV-L835-CD1-U-EQCL IP	49 VA	LED	White	Recessed	
B1	Metalux	24GR-LD5-48-F1-UNV-L835-CD1-U-E QCLIP	37 VA	LED	White	Recessed	
B2	Metalux	24GR-LD5-64-F1-UNV-L835-CD1-U-E QCLIP	48 VA	LED	White	Recessed	
C	Metalux	22CZ-LD5-44-UNV-L835-CD1-U-EQCL IP	33 VA	LED	White	Recessed	
D1	Metalux	22GR-LD5-32-F1-UNV-L835-CD1-U-E QCLIP	30 VA	LED	White	Recessed	
D2	Metalux	22GR-LD5-43-F1-UNV-L835-CD1-U-E QCLIP	40 VA	LED	White	Recessed	
E	Halo	HC415D010 - HM40525835 - 41WDHWF	15 VA	LED	White	Recessed	
EE	Halo	HC415D010EM06 - HM40525835 - 41WDHWF	29 VA	LED	White	Recessed	
F1	Halo	HCSQ410D010 - HM40525835 - 41SQHWF	10 VA	LED	White	Recessed	
F1E	Halo	HCSQ410D010EM06 - HM40525835 - 41SQHWF	10 VA	LED	White	Recessed	
F2	Halo	HCSQ415D010 - HM40525835 - 41SQHWF	15 VA	LED	White	Recessed	
F2E	Halo	HCSQ415D010EM14 - HM40525835 - 41SQHWF	15 VA	LED	White	Recessed	
F3	Halo	HCSQ430D010 - HM40525835 - 41SQHWF	29 VA	LED	White	Recessed	
F3E	Halo	HCSQ430D010EM14 - HM40525835 - 41SQHWF	29 VA	LED	White	Recessed	
G1	Neo-Ray	S125DRP-S1090B835-GYP5F6-1-UDD-F-W	45 VA	LED	White	Recessed	Field measure length to inch length. Varies per location.
G2	Neo-Ray	S125DRP-S1090B835-GYP11F0-1-UD D-F-W	98 VA	LED	White	Recessed	Field measure length to inch length. Varies per location.
H1	Metalux	4SNLED-LD5-44SL-LW-UNV-L835-CD 1	38 VA	LED	White	Surface	
H1E	Metalux	4SNLED-LD5-44SL-LW-UNV-EL14W-L 835-CD1	38 VA	LED	White	Surface	
H2	Metalux	4SNLED-LD5-44SL-LW-UNV-L835-CD 1-AYC-Chain/Set	38 VA	LED	White	Hung	
H2E	Metalux	4SNLED-LD5-44SL-LW-UNV-EL14W-L 835-CD1-AYC-Chain/Set	38 VA	LED	White	Hung	
H3	Metalux	4SNLED-LD5-58SL-LW-UNV-L835-CD 1-AYC-Chain/Set	46 VA	LED	White	Hung	
H3E	Metalux	4SNLED-LD5-58SL-LW-UNV-EL14W-L 835-CD1-AYC-Chain/Set	46 VA	LED	White	Hung	
J	Williams	MX2D - 6'00 - L8/835 - F - AC/D48 - DIM - UNV	40 VA	LED	White	Suspended	
JE	Williams	MX2D - 6'00 - L8/835 - F - AC/D48 - EM/10WLP - DIM - UNV	40 VA	LED	White	Suspended	
K1E	Williams	MX2RG - 4'00 - L8/835 - F - EM/10WLP - DIM - UNV	27 VA	LED	White	Surface	
K3	Williams	MX2RG - 8'00 - L8/835 - F - DIM - UNV	54 VA	LED	White	Surface	
K4	Williams	MX2RG - 20'00 - L8/835 - F - DIM - UNV	134 VA	LED	White	Surface	
K5	Williams	MX2RTL - 6'00 - L8/835 - F - DIM - UNV	40 VA	LED	White	Surface	
K5E	Williams	MX2RTL - 6'00 - L8/835 - F - EM/10WLP - DIM - UNV	40 VA	LED	White	Surface	
L	Williams	MX2UD - 4'00 - L8/835U/L8/823D - G/F - AC/D48 - DIM - UNV	54 VA	LED	White	Suspended	
M1	Williams	PX F - 42 - 31'00 - L17/835 - W - LWALL/RWALL - DIM - UNV	217 VA	LED	White	Surface	Field measure length to inch length. Varies per location.
M2	Williams	PX F - 42 - 26'00 - L17/835 - W - LWALL/RWALL - DIM - UNV	182 VA	LED	White	Surface	Field measure length to inch length. Varies per location.
N	Tech Lighting	700BCMET YS-LED930	25 VA	LED	Satin Nickel	Wall	Mount horizontal above mirrors
O1	Fluxwerx	LN1A0G12BBW1835DF2M	1152 VA	LED	Black	Pendant	See architect for exact specification and mounting height.
O2	Fluxwerx	LN1A0S06BBW1835CF2M	270 VA	LED	Black	Pendant	See architect for exact specification and mounting height.
P	Halo	VT0840L	9 VA	LED		Surface	
Q	Visual Comfort	ESRF0606O 133* 62 935 F B M 1 E F	95 VA	LED	White	Recessed	See architect for exact length
R1	Vode	107-BX 01 8'-0" 8'-0" CC 48" 4R25 AE 1 0 Z SO 359 1 0 BL 0	30 VA	LED	Black	Suspended	
R2	Vode	107-BX 01 12'-0" 12'-0" CC 48" 4R25 AE 1 0 Z SO 359 1 0 BL 0	30 VA	LED	Black	Suspended	
SA	McGraw Edison	GLEON-SA2C-740-U-T3-BK-AHD255-BPC-DIM10-L20-MA1036-BK	113 VA	LED	Black	Pole	Provide with 16' square steel pole.
SA2	McGraw Edison	(2)GLEON-SA2C-740-U-T3-BK-AHD25 5-BPC-DIM10-L20-MA1037-BK	226 VA	LED	Black	Pole	Provide with 16' square steel pole. 2 Fixtures at 180º.
SA2C	McGraw Edison	(2)GLEON-SA2C-740-U-T3-BK-AHD25 5-BPC-DIM10-L20-MA1037-BK	226 VA	LED	Black	Pole	Provide with 16' square steel pole. 2 Fixtures at 180º. Provide 1" opening for camera mount at 14'.
SAC	McGraw Edison	GLEON-SA2C-740-U-T3-BK-AHD255-BPC-DIM10-L20-MA1036-BK	226 VA	LED	Black	Pole	Provide with 16' square steel pole. Provide 1" opening for camera mount at 14'.
SB	McGraw Edison	GLEON-SA2C-740-U-T4FT-BK-AHD25 5-BPC-DIM10-L20-MA1036-BK	113 VA	LED	Black	Pole	Provide with 16' square steel pole.
SC	McGraw-Edison	GWC-SA1C-740-U-T4FT-BK-AHD255-BPC	59 VA	LED	Black	Wall	
SD	Kim Lighting	GEM1/LED 18L 4K UV/BLT	21 VA	LED	Black	Grade	
SDE	Kim Lighting	GEM1/LED 18L 4K UV/BLT EM	21 VA	LED	Black	Grade	
SF	Kim	AFL10-NF-54-3K-35-UV-BL-HDS-SM1 8-BL-208V	63 VA	LED	Black	Ground	
SG	Lumenpulse	LBM-120-40K-M-x-BK-NO-x-x-3FT-BK	28 VA	LED	Black	Yoke	See architect for exact specification and mounting height.
SH	Insight Lighting	PEX-MO-40K-ASUL-SM-48-120-x-MG	28 VA	LED	Metallic Gray	Surface	See architect for exact specification and mounting details..
SJ	Alva Lighting	SLIVER-90-BLK-4000	40 VA	LED	Black	Surface	See architect for exact specification and mounting height.
SK	Luminaire	AEL-12IN-NODIM-15W-30K-120-DP-B KH	15 VA	LED	Black	Surface	
SL	McGraw Edison	IST-SA1E-730-U-T3-BK	58 VA	LED	Black	Column	
T	Portfolio	LD6C159035D010 EUBC10259035 6LBPS1MW LG5KT6IP66	16 VA	LED	White	Recessed	
U	DADO Lighting	HL15-3KL-35-W-SNS-72-WH-n-X-UNV	15 VA	LED	White	Surface	Field measure length to inch length.
V	G&G Industrial Lighting	HLX4-SO-50K-120V	32 VA	LED	White	Surface	
W	LED LINEAR	XOOLINEPRO-24-935-xxxx-x-30-xx-xx -C00-IP40	80 VA	LED		Recessed	Field measure length to inch length.
X	Sure-Lites	CX7XR	1 VA	LED	Aluminum	Varies	Faces as per drawings

EQUIVALENT FIXTURES AS MANUFACTURERD BY LITHONIA, DAYBRITE, HUBBELL & COOPER WILL BE ACCEPTABLE UPON APPROVAL OF SPECIFIC MODEL NUMBERS BY ENGINEER.

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EXPIRATION DATE: DECEMBER 31, 2026

Proposed:
CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE
360/340 ECOLOGY DRIVE
ST. PETERS, MO 63376

No.	Date	Revision

ELECTRICAL SCHEDULES & ONE-LINE

Project No.
23121

Sheet No.
E005

Date
09/16/2025

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E003 KEYED NOTES

#	
1	PROVIDE POWER FOR CAMERA POE INJECTOR AND FIBER TO COPPER CONVERTER. PROVIDE FIBER TO IT/AV EQUIPMENT 137 FOR CONNECTION TO CAMERA SYSTEM.
2	MOUNT FIXTURE 14' ABOVE GRADE.
3	MOUNT FIXTURE 18' ABOVE GRADE.
4	MOUNT FIXTURE 20' ABOVE GRADE.
5	17x30x24 COMPOSITE HAND HOLE FOR FUTURE EV CHARGING STATION. INSTALL 2" EMPTY CONDUIT WITH PULLSTRING TO PANEL PH.
6	PROVIDE 1" CONDUIT FROM PANEL P1 TO GATE MOTOR FOR POWER.
7	PROVIDE 1" CONDUIT FROM IT/AV EQUIPMENT 137 TO GATE CONTROLLER FOR DATA.
8	EXISTING MOTORIZED GATE. PROVIDE 1" CONDUIT FROM PANEL P1 FOR GATE POWER. UPDATE MOTORIZED GATE CONTROLLER TO MATCH NEW.

E003 KEYED NOTES

#	
9	PROVIDE 1" CONDUIT FROM PANEL P1 TO MONUMENT SIGN FOR POWER.
10	PROVIDE 1" CONDUIT FROM IT/AV EQUIPMENT 137 TO MONUMENT SIGN FOR DATA.
11	EXISTING TO REMAIN PANEL PP IN PAVILION MECHANICAL ROOM FED FROM EXISTING PANEL PB ON BURN BUILDING EXTERIOR.
12	EXISTING TO REMAIN PANEL PB ON BURN BUILDING EXTERIOR.
13	RECONNECT EXISTING BURN BUILDING SERVICE FEED TO NEW TRANSFORMER.
14	(3) 2" CONDUITS WITH PULLSTRING FOR FIBER/PHONE AND CATV FROM I.T. CLOSET TO PROPERTY LINE. SEE SHEET E141 FOR CONTINUATION.
15	(2) 2" CONDUIT WITH PULLSTRING FOR FIBER/PHONE AND CCTV/CARD ACCESS FROM I.T. CLOSET 137 IN HEADQUARTERS BUILDING TO ELECTRICAL ROOM 101 IN MAINTENANCE BUILDING. SEE SHEETS E141 AND E241 FOR CONTINUATION.
16	MOUNT FIXTURES 5' FROM FLAGPOLE.
17	FIXTURE MOUNTED ON EXTERIOR BUILDING ABOVE VESTIBULE. SEE ARCHITECTURAL PLANS.
18	EXISTING UTILITY TRANSFORMER TO BE REPLACED WITH NEW IN THE SAME LOCATION. COORDINATE WITH UTILITY COMPANY.

1 PARTIAL ELECTRICAL SITE PLAN - AREA A
1" = 20'-0"

SCALE: 3" = 1'-0" | SCALE: 1 1/2" = 1'-0" | SCALE: 1" = 1'-0" | SCALE: 3/4" = 1'-0" | SCALE: 1/2" = 1'-0" | SCALE: 3/8" = 1'-0" | SCALE: 1/4" = 1'-0" | SCALE: 1/8" = 1'-0" | SCALE: 3/32" = 1'-0" | SCALE: 1/16" = 1'-0"

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No.	Revision	Date

PARTIAL ELECTRICAL SITE PLAN - AREA A

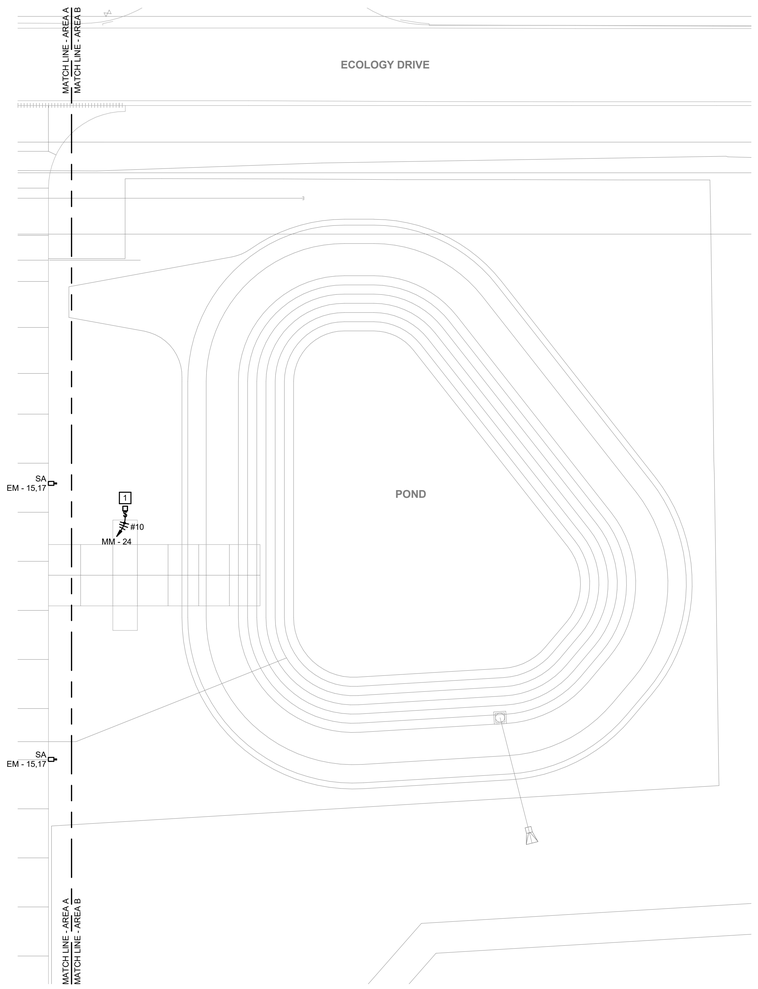
Project No. 23121

Sheet No. E006

Date 09/16/2025

E004 KEYED NOTES

1 PROVIDE 1/2" CONDUIT FROM PANEL MM IN MAINTENANCE BUILDING TO AERATOR COMPRESSOR CABINET FOR AERATOR COMPRESSOR POWER.



1 PARTIAL ELECTRICAL SITE PLAN - AREA B
1" = 20'-0"

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No.	Date	Revision

PARTIAL ELECTRICAL SITE PLAN - AREA B

Project No. 23121

Sheet No. E007

Date 09/16/2025

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IMPROVEMENT PLANS
for
CENTRAL COUNTY FIRE & RESCUE

LEGEND

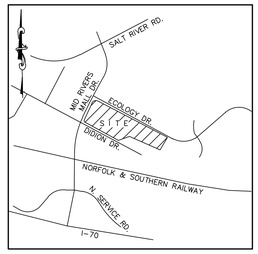
EXISTING CONTOURS	433
PROPOSED CONTOURS	433
EXISTING STORM SEWER	
PROPOSED STORM SEWER	ST ST
EXISTING SANITARY SEWER	
PROPOSED SANITARY SEWER	SAN SAN
RIGHT-OF-WAY	
EASEMENT	
CENTERLINE	
EXISTING TREE	
EXISTING SPOT ELEVATION	× 433.28
PROPOSED SPOT ELEVATION	433.28
SWALE	
TO BE REMOVED	T.B.R.
TO BE REMOVED & RELOCATED	T.B.R.& R.
TO BE USED IN PLACE	U.I.P.
ADJUST TO GRADE	A.T.G.
BACK OF CURB	B.C.
FACE OF CURB	F.C.
WATER MAIN	W W
GAS MAIN	GAS GAS
UNDERGROUND TELEPHONE	T T
OVERHEAD WIRE	OHE OHE
UNDERGROUND ELECTRIC	E E
SILTATION CONTROL	X X
FIRE HYDRANT	
POWER POLE	
WATER VALVE	WV
LIGHT STANDARD	

ABBREVIATIONS

N	NORTH
S	SOUTH
E	EAST
W	WEST
EX.	EXISTING
PR.	PROPOSED
CONC	CONCRETE
ASPH	ASPHALT
PB	PLAT BOOK
DB	DEED BOOK
PG	PAGE
SF	SQUARE FEET
AC	ACRES
ELEV	ELEVATION
FF	FINISH FLOOR
FL	FLOWLINE
PVC	POLYVINYL CHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
STM	STORM
SAN	SANITARY
(S)	SAVE
(R)	REMOVE
(T.B.R.)	TO BE REMOVED
(U.I.P.)	USE IN PLACE

SYMBOLS

WATER MANHOLE	WMH
TELEPHONE MANHOLE	TMH
BRUSH & SHRUB LINE	
BOLLARD	
SIGN	
ELECTRIC YARD LIGHT	
BORING LOCATION	
MAIL BOX	MB
ELECTRIC BOX	EB
CLEAN OUT	CO
GAS VALVE	GV
GAS METER	GM
GAS DRIP	GD



LOCATION MAP
N.T.S.

PROPERTY DATA

OWNER	= CENTRAL COUNTY FIRE & RESCUE
ADDRESS	= 10100 MID RIVERS MALL DR.
LOCATOR NO.	= 2-0100-A008-00-0001.0000000
ACREAGE	= 10.25± AC.
ZONING	= I-2
FIRE DISTRICT	= CENTRAL COUNTY FIRE & RESCUE
SEWER DISTRICT	= ST. PETERS CITY WATER DEPARTMENT
ELECTRIC COMPANY	= AMEREN
GAS COMPANY	= SPIRE
PHONE COMPANY	= CENTURYLINK
WATER COMPANY	= ST. PETERS CITY WATER DEPARTMENT

UTILITIES & AGENCIES

ELECTRIC COMPANY
AMEREN MISSOURI
200 N. CALLAHAN RD.
WENTZVILLE, MO 63385
ATTN: DAN GIESSMANN
PH. (636) 639-8336
DGIESSMANN@AMEREN.COM

WATER & SEWER
CITY OF ST. PETERS WATER
1 ST. PETERS CENTRE BLVD.
ST. PETERS, MO 63376
ATTN: AMY HADDOCK
PH. (636) 477-6600

PHONE COMPANY
CENTURYLINK
1151 CENTURY TEL DR.
WENTZVILLE, MO. 63385
ATTN: TIM HOWE
PH: 636-445-7055
TIM.HOWE@CENTURYLINK.COM

CABLE TELEVISION
CHARTER COMMUNICATIONS
101 NORTHWEST PLAZA DRIVE
ST. ANN, MO 63074
ATTN: ENGINEERING
PH. (314) 386-1645

GAS COMPANY
SPIRE
4118 SHREWSBURY AVENUE
SHREWSBURY, MO 63119
ATTN: BRIAN LANGENBACHER, P.E.
PH. (314) 768-7767

FIRE DISTRICT
CENTRAL COUNTY FIRE AND RESCUE
1 TIMBERBROOK DR.
ST. PETERS, MO 63376
ATTN: FIRE INSPECTOR
PH. (636) 970-9700

LAND DESCRIPTION

LOT 1 OF ORF COMMERCIAL ESTATES, ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 43 PAGE 16 OF THE ST. CHARLES COUNTY RECORDS.

SITE BENCHMARK

NAVD88 ELEV. = 437.16' FTUS
CUT SQUARE ON NORTHWEST CORNER OF CONCRETE WALK LEADING FROM CONCRETE LOT TO GRAVEL LOT.

SITE DATUM WAS DERIVED FROM UTILIZING A CARLSON BRX7 ROVER BROADCASTING THE MODOT VRS CORS NETWORK AND BROADCASTING NAVD88

FLOOD ZONE NOTES

BY GRAPHIC PLOTTING ONLY, THIS PROPERTY LIES WITHIN SHADED ZONE 'X' (AREAS OF 0.2% ANNUAL FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD) ACCORDING TO THE FLOOD INSURANCE RATE MAP PANEL NUMBER 29183C0261G (CITY OF ST. PETERS, ST. CHARLES COUNTY, MISSOURI) WHICH BEARS AN EFFECTIVE OF JANUARY 20, 2016.

SHEET INDEX

C1.0	TITLE SHEET
C2.0	SPECIFICATIONS SHEET
C3.0	OVERALL SITE PLAN
C4.0–C4.1	EXISTING CONDITIONS & FACILITIES REMOVAL PLAN
C5.0–C5.1	SITE AND GRADING PLAN
C6.0–C6.1	SITE GEOMETRY AND UTILITY PLAN
C7.0–C7.1	SEWER PROFILES, DETAILS AND HYDRAULIC DATA
C8.0–C8.1	SITE DETAILS
C9.0	BMP PLAN
C10.0	DRAINAGE AREA PLAN
C11.0	STORMWATER POLLUTION PREVENTION PLAN
C11.1	STORMWATER POLLUTION PREVENTION PLAN DETAILS

GENERAL NOTES:

1. CIVIL ENGINEERING DESIGN CONSULTANTS, INC. AND THE UNDERSIGNED ENGINEER HAVE NO RESPONSIBILITY FOR SERVICES PROVIDED BY OTHERS TO IMPLEMENT THE IMPROVEMENTS SHOWN ON THIS PLAN AND ALL OTHER DRAWINGS WHERE THE UNDERSIGNED ENGINEER'S SEAL APPEARS. THE CONSTRUCTION MEANS, METHODS & MATERIALS ARE THE SOLE RESPONSIBILITY OF THE OWNER AND CONTRACTOR. CIVIL ENGINEERING DESIGN CONSULTANTS, INC. HAS NO RESPONSIBILITY TO VERIFY FINAL IMPROVEMENTS AS SHOWN ON THIS PLAN UNLESS SPECIFICALLY ENGAGED AND AUTHORIZED TO DO SO BY THE OWNER OR CONTRACTOR.

NOTES TO CONTRACTOR:

1. UTILITY NOTE: UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS, RECORDS AND INFORMATION, AND , THEREFORE DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, NON-EXISTENCE, SIZE, TYPE, NUMBER, OR LOCATION OF THESE FACILITIES, STRUCTURES AND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS. THE UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY GRADING, EXCAVATION OR CONSTRUCTION OF IMPROVEMENTS. THESE PROVISIONS SHALL IN NO WAY ABSOLVE ANY PARTY FROM COMPLYING WITH THE UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION ACT, CHAPTER 319 RSMo.
2. CONTRACTOR/SUBCONTRACTOR SHALL INVESTIGATE, ASCERTAIN AND CONFORM TO ANY AND ALL PERMIT REQUIREMENTS OF THE (ANY) VARIOUS AFFECTED UTILITY COMPANIES AND/OR REGULATORY AGENCIES WITH REGARDS TO MAKING CONNECTIONS TO; OR CROSSINGS OF THEIR FACILITIES; REMOVAL OR ABANDONMENT OF FACILITIES; WORKING WITHIN THEIR RIGHT-OF-WAY OR EASEMENTS; INSPECTIONS AND ASSOCIATED MONETARY CHARGES; AND/OR SPECIAL BACKFILL REQUIREMENTS. SUCH INVESTIGATION TO INCLUDE BUT NOT LIMITED TO THE MAKING OF NECESSARY APPLICATIONS AND PAYMENTS OF ALL REQUIRED FEES.
3. THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS OR PROFILES ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR/SUBCONTRACTOR TO VERIFY THE FIELD LOCATIONS, ANTICIPATED CLEARANCES AND THE EXISTENCE OF ANY FACILITIES NOT SHOWN HEREON, AS PART OF THE INVESTIGATIONS IN THE PARAGRAPH ABOVE.
4. THE DISCONNECT AND REMOVAL OF EXISTING OVERHEAD AND UNDERGROUND SERVICE LINES CALLED OUT TO BE REMOVED SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY COMPANIES.
5. THE DEMOLITION PLAN IS FOR ILLUSTRATION OF THE GENERAL DEMOLITION ANTICIPATED FOR THIS PARTICULAR SITE. THE DEMOLITION PLAN DOES NOT REPRESENT ALL CONDITIONS THAT MAY BE ENCOUNTERED DURING DEMOLITION/CONSTRUCTION. THE CONTRACTOR SHALL MAKE HIMSELF THOROUGHLY FAMILIAR WITH THE SITE AND THE DEMOLITION/CONSTRUCTION REQUIREMENTS PRIOR TO BIDDING. THE INTENT OF THE DEMOLITION IS TO PROVIDE A CLEAN STABLE SITE, READY FOR CONSTRUCTION OF THE PROJECT IN CONFORMANCE WITH THE CONSTRUCTION PLANS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CONDITIONS THAT ARE IN KEEPING WITH THIS INTENT.

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MISSOURI ONE-CALL SYSTEM, INC.

NOTE:

THE UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SOURCES AND THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THE VERIFICATION OF THE ACTUAL LOCATIONS OF ALL UNDERGROUND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THIS DRAWING, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE LOCATED PRIOR TO GRADING OR CONSTRUCTION OF IMPROVEMENTS.

MISSOURI ONE CALL TICKET NUMBER 233131241

THE UTILITIES CONTACTED BY MISSOURI ONE CALL WERE:

AMEREN MISSOURI ELECTRIC
BRIGHTSPEED
CHARTER COMMUNICATIONS
MO
CITY OF ST. PETERS
SPIRE MO EAST

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Proposed:
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380/340 ECOLOGY DRIVE
ST. PETERS, MO 63376

Revision
Date
No.

TITLE SHEET

Project No.
2464

Sheet No.
C1.0

09/16/2025

GENERAL NOTES

1. ALL MATERIALS AND METHODS OF CONSTRUCTION TO MEET THE CURRENT CITY OF ST. PETERS STANDARDS.
2. ALL GRADED AREAS SHALL BE PROTECTED FROM EROSION BY EROSION CONTROL DEVICES AND/OR SEEDING AND MULCHING AS REQUIRED BY THE CITY OF ST. PETERS, MISSOURI.
3. PRIOR TO BEGINNING ANY WORK ON THE SITE, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR SPECIFIC INSTRUCTIONS RELEVANT TO THE SEQUENCING OF WORK.
4. GRADING CONTRACTOR SHALL INSTALL SILTATION CONTROL PRIOR TO STARTING THE GRADING. ADDITIONAL SILTATION CONTROL DEVICES SHALL BE INSTALLED AS DIRECTED BY THE CITY OF ST. PETERS.
5. ALL FILLS AND BACKFILLS SHALL BE MADE OF SELECTED EARTH MATERIALS, FREE FROM BROKEN MASONRY, ROCK, FROZEN EARTH, RUBBISH, ORGANIC MATERIAL AND DEBRIS.
6. GRADING CONTRACTOR SHALL KEEP EXISTING ROADWAYS CLEAN OF MUD AND DEBRIS AT ALL TIMES.
7. PROPOSED CONTOURS SHOWN ARE FINISHED ELEVATIONS ON PAVED AREAS.
8. GRADING & STORM WATER PER CITY OF ST. PETERS STANDARDS.
9. DRIVE ENTRANCES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ST. PETERS.
10. SEEDING, SODDING, MULCHING AND PLANTINGS FOR ALL DISTURBED AREAS SHALL BE SPECIFIED ON THE LANDSCAPE PLAN. ANY LANDSCAPED AREAS NOT ADDRESSED ON THE LANDSCAPE PLAN SHALL BE FILLED WITH AT LEAST 6" OF TOPSOIL.
11. SIDEWALKS ALONG THE ACCESSIBLE ROUTE SHALL NOT HAVE A SLOPE EXCEEDING 1"V:20'H. SLOPES GREATER THAN 1"V:20'H MUST BE DESIGNED AS A RAMP.
12. SIDEWALKS, CURB RAMPS, RAMPS AND ACCESSIBLE PARKING SPACES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT APPROVED "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES" (ADAAG) ALONG WITH THE REQUIRED GRADES, CONSTRUCTION MATERIALS, SPECIFICATIONS AND SIGNAGE. IF ANY CONFLICT OCCURS BETWEEN THE ADAAG GUIDELINES AND THE INFORMATION ON THE PLANS, THE ADAAG GUIDELINES SHALL TAKE PRECEDENCE AND THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER PRIOR TO ANY CONSTRUCTION.
13. BUILDING SETBACKS FOR "I-2" HEAVY INDUSTRIAL DISTRICT
    PER SECTION 405.240(F)
    FRONT = 30 FEET
    SIDE = 10 FEET EXCEPT WHEN ADJACENT TO A RESIDENTIAL~70 FEET
    REAR = 15 FEET EXCEPT WHEN ADJACENT TO A RESIDENTIAL~70 FEET
14. ALL NEW AND RELOCATED ON-SITE UTILITIES SHALL BE PLACED UNDERGROUND.
15. BY GRAPHIC PLOTTING ONLY, THIS PROPERTY LIES WITHIN ZONE X, AREAS WITH REDUCED FLOOD RISK DUE TO LEVEE; ACCORDING TO THE FLOOD INSURANCE RATE MAP PANEL NUMBER 19183C0261G AND COMMUNITY NUMBER 290319 (CITY OF ST. PETERS) WHICH BEARS AN EFFECTIVE DATE OF JANUARY 20, 2016.
16. NO ON-SITE ILLUMINATION SOURCE SHALL BE SO SITUATED THAT LIGHT IS CAST DIRECTLY ON ADJOINING PROPERTIES OR PUBLIC ROADWAYS ILLUMINATION LEVELS SHALL COMPLY WITH THE PROVISIONS OF THE LIGHTING SECTION, CITY OF ST. PETERS. ALL LIGHTING TO BE DOWNCAST STYLE.
17. APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF SIGNAGE. SIGN APPROVAL IS A SEPARATE PROCESS.
18. ALL ROOFTOP MECHANICAL EQUIPMENT SHALL BE SCREENED.
19. THE SITE SHALL COMPLY WITH CITY CODE CHAPTER 550 STORMWATER MANAGEMENT.
20. THE SITE SHALL COMPLY WITH CITY CODE CHAPTER 530 GRADING REGULATIONS. SWPPP TO BE DEVELOPED WITH IMPROVEMENT PLANS.
21. THE SITE SHALL COMPLY WITH CHAPTER 535 TREE & LANDSCAPE CODE.
22. BASIC SOIL EROSION CONTROL PLAN TO BE UTILIZED DURING SITE DEVELOPMENT IN COMPLIANCE WITH CITY CODE CHAPTER530 GRADING REGULATIONS.

GENERAL GRADING NOTES

1. NOTIFY THE CITY OF ST. PETERS 48 HOURS. PRIOR TO THE COMMENCEMENT OF GRADING AND/OR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
2. ALL GRADING OPERATIONS ARE SUBJECT TO THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEERING REPORT.
3. ALL FILL OR BACKFILL OPERATIONS SHALL BE EXECUTED UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER SHALL DETERMINE THE SUITABILITY AND ASCERTAIN COMPLIANCE WITH SPECIFICATION REQUIREMENTS OF ALL MATERIALS TO BE USED AS FILLS.
4. PARKING ON NON-SURFACED AREAS IS PROHIBITED IN ORDER TO ELIMINATE THE CONDITION WHEREBY MUD FROM CONSTRUCTION AND EMPLOYEE VEHICLES IS TRACKED ONTO THE PAVEMENT CAUSING HAZARDOUS ROADWAY AND DRIVING CONDITIONS. CONTRACTOR SHALL KEEP ROAD CLEAR OF MUD AND DEBRIS.
5. THE STREETS SURROUNDING THIS DEVELOPMENT AND ANY STREET USED FOR CONSTRUCTION ACCESS THERETO SHALL BE CLEANED THROUGHOUT THE DAY.
6. EROSION AND SILTATION CONTROL SHALL BE INSTALLED PRIOR TO ANY GRADING AND BE MAINTAINED THROUGHOUT THE PROJECT UNTIL ACCEPTANCE OF THE WORK BY THE OWNER AND/OR CONTROLLING REGULATORY AGENCY AND ADEQUATE VEGETATIVE GROWTH INSURES NO FURTHER EROSION OF THE SOIL.
7. ADDITIONAL SILTATION CONTROL MAY BE REQUIRED AS DEEMED NECESSARY BY THE CITY.
8. TEMPORARY SILTATION CONTROL MEASURES (STRUCTURAL) SHALL BE MAINTAINED UNTIL VEGETATIVE COVER IS ESTABLISHED AT A SUFFICIENT DENSITY TO PROVIDE EROSION CONTROL ON THE SITE.
9. WHERE NATURAL VEGETATION IS REMOVED DURING GRADING, VEGETATION SHALL BE REESTABLISHED IN SUCH A DENSITY AS TO PREVENT EROSION.
10. WHEN CLEARING AND/OR GRADING OPERATIONS ARE COMPLETED OR SUSPENDED FOR MORE THAN 14 DAYS, ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO RETAIN SOIL MATERIALS ON SITE. PROTECTIVE MEASURES MAY BE REQUIRED BY THE DIRECTOR OF PUBLIC WORKS SUCH AS PERMANENT SEEDING, PERIODIC WETTING, MULCHING, OR OTHER SUITABLE MEANS.
11. IF CUT AND FILL OPERATIONS OCCUR DURING A SEASON NOT FAVORABLE FOR IMMEDIATE ESTABLISHMENT OF PERMANENT GROUND COVER, A FAST GERMINATING ANNUAL SUCH AS RYE GRASSES OR SUDAN GRASSES SHALL BE UTILIZED TO RETARD EROSION, IF ADEQUATE STORMWATER DETENTION AND EROSION CONTROL DEVICES HAVE NOT BEEN ESTABLISHED.
12. ALL FINISHED GRADES (AREAS NOT TO BE DISTURBED BY FUTURE IMPROVEMENT) SHALL BE SEEDED/SODDED.
13. ALL AREAS SHALL BE SEEDED OR SODDED PRIOR TO OCCUPANCY PERMIT AND SHALL BE ISSUED EXCEPT THAT A TEMPORARY OCCUPANCY PERMIT MAY BE ISSUED BY ST. PETERS BUILDING DEPARTMENT IN CASES OF UNDUE HARDSHIP BECAUSE OF UNFAVORABLE GROUND CONDITIONS.
14. SILTATION FENCES SHALL BE INSPECTED PERIODICALLY FOR DAMAGE AND FOR THE AMOUNT OF SEDIMENT WHICH HAS ACCUMULATED. REMOVAL OF SEDIMENT WILL BE REQUIRED WHEN IT REACHES HALF THE HEIGHT OF HE SILTATION FENCE.
15. ALL TRASH AND DEBRIS ON-SITE, EITHER OR FROM CONSTRUCTION, MUST BE REMOVED AND PROPERLY DISPOSED OF DAILY.
16. ANY WELLS, CISTERNS AND/OR SPRINGS, WHICH MAY EXIST ON THIS PROPERTY, SHOULD BE LOCATED AND SEALED IN A MANNER ACCEPTABLE TO ST. CHARLES COUNTY AND THE MISSOURI DEPARTMENT OF NATURAL RESOURCES.
17. ALL EXCAVATIONS, GRADING OR FILLING SHALL HAVE A FINISHED GRADE NOT TO EXCEED A 3:1 SLOPE (33%), UNLESS SPECIFICALLY APPROVED OTHERWISE.
18. STORM WATER PIPES, OUTLETS, AND CHANNELS SHALL BE PROTECTED BY OF WASTE AND SILT AT ALL TIMES PRIOR SILT BARRIERS AND KEPT FREE TO FINAL SURFACE STABILIZATION AND/OR PAVING.
19. NO CONSTRUCTION PARKING SHALL BE PERMITTED ON PUBLIC STREETS.
20. NO EXCAVATION SHALL BE MADE SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY ADJOINING PROPERTY OF ANY PUBLIC OR PRIVATE STREET WITHOUT SUPPORTING AND PROTECTING SUCH PUBLIC OR PRIVATE STREET OR PROPERTY FROM SETTLING, CRACKING OR OTHER DAMAGE.
21. THE GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT SHALL BE CONSIDERED PART OF THESE SPECIFICATIONS. DISCREPANCIES BETWEEN THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS AND THESE PLANS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY, PRIOR TO CONSTRUCTION.

DEMOLITION NOTES

1. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS, RECORDS AND INFORMATION, AND, THEREFORE DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, NON-EXISTENCE, SIZE, TYPE, NUMBER, OR LOCATION OF THESE FACILITIES, STRUCTURES AND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS. THE UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY GRADING, EXCAVATION OR CONSTRUCTION OF IMPROVEMENTS. THESE PROVISIONS SHALL IN NO WAY ABSOLVE ANY PARTY FROM COMPLYING WITH THE UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION ACT, CHAPTER 319 RSMO.
2. CONTRACTOR SHALL SCHEDULE A UTILITY MEETING WITH REPRESENTATIVES OF ALL UTILITY COMPANIES PRIOR TO BIDDING AND CONSTRUCTION.
3. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING CONSTRUCTION PARKING WITH THE CITY AND WITH THE OWNER.
4. CONTRACTOR SHALL VERIFY EXISTING UTILITY SERVICES ARE CAPPED OR REMOVED AND/OR ABANDONED AS REQUIRED PER THE SPECIFICATIONS OF THE APPROPRIATE GOVERNING AGENCY.
5. PROVIDE PROTECTIONS NECESSARY TO PREVENT DAMAGE TO EXISTING IMPROVEMENTS AND UTILITIES INDICATED TO REMAIN IN PLACE.
6. PROTECT IMPROVEMENTS ON ADJOINING PROPERTIES AND ON OWNER'S PROPERTY.
7. RESTORE DAMAGED IMPROVEMENTS TO THEIR ORIGINAL CONDITION AND GRADES, AS ACCEPTABLE TO PROPERTY OWNERS.
8. PROTECT EXISTING TREES AND OTHER VEGETATION AGAINST UNNECESSARY CUTTING, BREAKING OR SKINNING OF ROOTS AND BRANCHES, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS WITHIN DRIP LINE, EXCESS FOOT OR VEHICULAR TRAFFIC, OR PARKING OF VEHICLES WITHIN DRIP LINE. DO NOT RUN HEAVY EQUIPMENT OVER TREE ROOT SYSTEMS. MAINTAIN MINIMUM TRENCH WIDTHS NEAR ROOT SYSTEMS SO AS TO AVOID UNNECESSARY INJURY. PROTECT TREES AND VEGETATION DESIGNATED TO REMAIN WITH TEMPORARY FENCE ENCLOSURES, PRIOR TO COMMENCEMENT OF SITE CLEARING OPERATIONS. ENCLOSURE SHALL BE A MINIMUM OF 8 FEET IN RADIUS AROUND CENTER OF TREE TRUNKS, WITH LARGE TREES BEING PROTECTED WITH FENCING SET AT EDGE OF DRIP LINES. ENCLOSURE OF VEGETATION SHALL BE AS REQUIRED TO PREVENT DAMAGE FROM CONSTRUCTION ACTIVITIES. MAINTAIN FENCING THROUGHOUT CONSTRUCTION PERIOD, UNLESS OTHERWISE DIRECTED.
9. THE CONTRACTOR SHALL BE REQUIRED TO VERIFY ALL EXISTING CONDITIONS AT THE SITE, PRIOR TO SUBMITTING A BID OR STARTING WORK. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES THAT MAY EXIST BETWEEN THE CONTRACT DOCUMENTS AND REQUEST CLARIFICATION IN WRITING PRIOR TO THE BID.
10. LANDSCAPING IRRIGATION SYSTEM TO BE CAPPED AND REMOVED IN AREAS OF CONSTRUCTION WITH SERVICE LINES AND CAPS FLAGGED OR PROPERLY MARKED FOR FUTURE TIE-INS, IF APPLICABLE.
11. CONTRACTOR SHALL REFER TO THE SITE ELECTRICAL DRAWINGS (BY OTHERS) FOR FINAL DETERMINATION ON THE REMOVAL AND/OR REPLACEMENT OF EXISTING ON-SITE LIGHTING FIXTURES. ALSO, REFER TO THE SITE ELECTRICAL DRAWINGS FOR WHETHER EXISTING FIXTURES WILL BE RE-USED OR REPLACED WITH NEW FIXTURES.
12. CONTRACTOR SHALL BE REQUIRED TO COORDINATE CONSTRUCTION ACTIVITIES WITH PROPERTY OWNER TO MINIMIZE DISRUPTION DURING CONSTRUCTION.
13. TREES, ORGANIC DEBRIS, RUBBLE, FOUNDATIONS AND OTHER DELETERIOUS MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED IN COMPLIANCE WITH ALL APPLICABLE LAWS AND REGULATIONS. LANDFILL TICKETS FOR SUCH DISPOSAL SHALL BE MAINTAINED ON FILE BY THE DEVELOPER. BURNING ON SITE SHALL BE ALLOWED ONLY BY PERMIT FROM THE LOCAL FIRE DISTRICT. IF A BURN PIT IS PROPOSED, THE LOCATION AND MITIGATION SHALL BE SHOWN ON THE GRADING PLAN AND DOCUMENTED BY THE SOILS ENGINEER.
14. THE DEMOLITION PLAN IS FOR ILLUSTRATION OF THE GENERAL DEMOLITION ANTICIPATED FOR THIS PARTICULAR SITE. THE DEMOLITION PLAN DOES NOT REPRESENT ALL CONDITIONS THAT MAY BE ENCOUNTERED DURING DEMOLITION/CONSTRUCTION. THE CONTRACTOR SHALL MAKE HIMSELF THOROUGHLY FAMILIAR WITH THE SITE AND THE DEMOLITION/CONSTRUCTION REQUIREMENTS PRIOR TO BIDDING. THE INTENT OF THE DEMOLITION IS TO PROVIDE A CLEAN STABLE SITE, READY FOR CONSTRUCTION OF THE PROJECT IN CONFORMANCE WITH THE CONSTRUCTION PLANS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CONDITIONS THAT ARE IN KEEPING WITH THIS INTENT.

STORM SEWER NOTES

1.) ALL CONCRETE PIPE SHALL BE REINFORCED, AND CONFORM TO A.S.T.M. DESIGNATION C76-80 CLASS III UNLESS NOTED.

2.) ALL STORM SEWER STRUCTURES WITHIN PROJECT SITE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CITY'S STANDARDS.

3.) TYPE "C" BEDDING PER CITY STANDARDS IS REQUIRED FOR PIPES IN ROCK.

4.) ALL TRENCHES UNDER AREAS TO BE PAVED AND UNDER EXISTING PAVING SHALL BE GRANULARLY FILLED WITH 3/4" MINUS CRUSHED LIMESTONE ONLY. BACKFILL SHALL BE PLACED IN ACCORDANCE WITH CITY STANDARDS.

5.) ALL TRENCH BACKFILLS UNDER PAVEMENT WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE GRANULAR BACKFILLED. TRENCH BACKFILLS UNDER PAVED AREAS, OUTSIDE OF PUBLIC RIGHT-OF-WAY SHALL BE GRANULAR BACKFILL IN LIEU OF THE EARTH BACKFILL COMPACTED TO 95 PERCENT OF THE STANDARD AASHTO T-99 COMPACTION TEST A.S.T.M. D-698.

6.) JETTING IS NOT AN ACCEPTABLE METHOD OF ACHIEVING BACKFILL COMPACTION. ALL BACKFILL MATERIAL SHALL BE MECHANICALLY COMPACTED TO AT LEAST 95 PERCENT OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY.

7.) FOR SEWER PIPE (STORM, SANITARY AND COMBINED) WITH A DESIGN GRADE LESS THAN ONE PERCENT (1%), VERIFICATION OF THE PIPE GRADE WILL BE REQUIRED FOR EACH INSTALLED REACH OF SEWER, PRIOR TO ANY SURFACE RESTORATION OR INSTALLATION OF ANY SURFACE IMPROVEMENTS. THE CONTRACTOR'S FIELD SUPERVISOR WILL BE REQUIRED TO PROVIDE DAILY DOCUMENTATION VERIFYING THAT THE AS-BUILT PIPE GRADE MEETS THE DESIGN GRADE THROUGH THE SUBMITTAL OF SIGNED CUT SHEETS TO THE CITY INSPECTOR UPON REQUEST.

FIELD SURVEYED VERIFICATION MUST BE MADE UNDER THE DIRECTION OF A LICENSED LAND SURVEYOR OR REGISTERED ENGINEER. THE CONTRACTOR WILL BE REQUIRED TO REMOVE AND REPLACE ANY SEWER REACH HAVING AN AS-BUILT GRADE WHICH IS FLATTER THAN THE DESIGN GRADE BY MORE THAN 0.1%. SEWERS WITH GRADES GREATER THAN THE DESIGN SLOPE MAY BE LEFT IN PLACE, PROVIDED NO OTHER SEWER GRADE IS REDUCED BY THIS VARIANCE IN THE AS-BUILT GRADE.

CITY ALSO RESERVES THE RIGHT TO REQUIRE THE CONTRACTOR TO REMOVE AND REPLACE ANY SEWER (AT ANY TIME PRIOR TO CONSTRUCTION APPROVAL) FOR WHICH THE AS-BUILT GRADE DOES NOT COMPLY WITH THE GRADE TOLERANCE STATED IN THE ABOVE PARAGRAPH.

THE SEWER CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH THE FIELD VERIFICATION OF THE SEWER GRADE, OR REMOVAL AND REPLACEMENT OF THE SEWER PIPE OR ASSOCIATED APPURTENANCES.

8.) ADJUSTMENT OF MANHOLE TO GRADE:
IF A MANHOLE IS TO BE RAISED:
MANHOLES MAY BE RAISED USING APPROVED GRADE RING(S), PROVIDED THE TOTAL ADJUSTMENT OF THE MANHOLE DOES NOT EXCEED 12-INCHES (INCLUDING THE EXISTING RINGS). FOR MANHOLES WHICH WILL EXCEED THE MAXIMUM OF 12-INCHES, THE TRANSITION SECTION OF THE STRUCTURE SHALL BE REMOVED AND THE BOTTOM SECTION RAISED USING THE SAME MATERIAL AS THE EXISTING STRUCTURE.

IF A MANHOLE IS TO BE LOWERED:
MANHOLES MAY BE LOWERED BY REMOVING THE TRANSITION SECTION, AND LOWERING THE EXISTING BOTTOM SECTION BY SAWCUTTING THE EXISTING CAST-IN-PLACE CONCRETE, REMOVING THE REQUIRED COURSES OF BRICK, OR REMOVING THE PRECAST RISER SECTION AS APPROPRIATE.

CITY NOTES

1. Construction parking is not allowed on Private Streets.
2. All public roads must be kept clear of mud and debris at all times. Failure to do so will be cause for the City to suspend work.
3. All new signs shall conform to the City's sign Ordinance requirements. Sign location and sizes cannot be approved with the site improvement plan, a separate application must be made to the Department of Planning.
4. The General Contractor shall restore offsite construction areas to an equal or better condition than existed prior to the commencement of work.
5. Safety notice to Contractor: In accordance with generally accepted construction practices, the Contractor shall be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. This requirement will apply continuously and not be limited to normal working hours.
6. The contractor shall be responsible for the razing and removal of the existing structures, including foundations, related utilities, paving, underground facilities and any other existing improvements.
7. The contractor will be held solely responsible and shall take all precautions necessary to avoid damage to adjacent properties during all phases of the construction plan.
8. Burning on site will not be allowed.
9. Disposal of material on-site will only be allowed as directed by the owner and geotechnical engineer and approved by the St. Peters Engineering Department.
10. Contractor shall coordinate the disconnection, sealing and/or removal of utilities with the respective utility company.
11. The general contractor shall contact all utility companies for new service.
12. The general contractor shall flag all sanitary and storm sewer structures with a 2 X 4 painted orange and marked to read "Storm Sewer Structure or Sanitary Sewer Structure Do Not Bury".
13. All private sewers are under City inspection.
14. All filled places under proposed storm and sanitary sewer lines and/or paved areas shall be compacted to 95% maximum density as determined by the modified AASHTO T-180 compaction test or 95% of maximum density as determined by the Standard Proctor Test AASHTO T-99. A sealed copy of all result reports shall be available for review.
15. All excavations, grading, or filling shall have a finished grade not to exceed a 3:1 slope (33 percent). Steeper grades may be approved by the Designated Official if the excavation is through rock or the excavation or the fill is adequately protected (a designed head wall or toe wall may be required). Retaining walls that exceed a height of four (4) feet shall require the construction of safety guards as identified in the appropriate section(s) of the adopted BOCA Codes and must be approved by the City. Permanent safety guards will be constructed in accordance with the appropriate section(s) of the adopted BOCA Codes.
16. Temporary siltation control measures (structural) shall be maintained until vegetative control is established on the site, to be determined by the Designated Official.
17. Where natural vegetation is removed during grading, vegetation shall be reestablished in such a density as to prevent erosion. Permanent type grasses shall be established as soon as possible or during the next seeding period after grading has been completed. (Refer to Appendix A.)
18. When grading operations are completed or suspended for more than 14 days, permanent grass must be established at sufficient density to provide erosion control on the site. Between permanent grass seeding periods, temporary cover shall be provided according to the Designated Official's recommendation. (Refer to Appendix A.)
19. All finished grades (areas not to be disturbed by future improvement) in excess of 20 percent slopes (5:1) shall be mulched and tacked at the rate of 100 pounds per 1,000 square feet when seeded.
20. The adjoining ground to development sites (lots) shall be provided with protection from accelerated and increased surface water, silt from erosion, and any other consequences or erosion. Run-off water from developed areas (parking lots, paved sites and buildings) above the area to be developed shall be directed to diversions, detention basins, concrete gutters and/or underground outlet systems. Sufficiently anchored straw bales may be temporarily substituted with the approval of the Designated Official.
21. All lots shall be seeded and mulched at the rates defined in Appendix A or sodded before an occupancy permit shall be issued except that a temporary occupancy permit may be issued by the Building Department in cases of undue hardship because of unfavorable ground conditions.
22. All filled places in proposed roads and right-of-way shall be compacted from the bottom of the fill up to 90% maximum density as determined by the modified AASHTO T-180 compaction test or 95% of maximum density as determined by the Standard Proctor Test AASHTO T-99. A soil's engineer shall verify all tests concurrent with grading and backfilling operations. A copy of the final compaction results for the earthwork shall be provided to the City.
23. Runoff water from developed areas (parking lots, paved sites, and buildings) above the area to develop shall be directed to diversions, detention basins, concrete gutters and/or underground outlet systems. Sufficiently anchored straw bales may be temporarily substituted with the approval of the designated official.
24. All light standards shall be shaded, shielded or directed to prevent direct light from causing traffic hazards, and casting direct light upon adjacent property causing glare or other objectionable problems to surrounding areas.
25. The contractor shall provide the city with a copy of all compaction test results.

SEQUENCE OF GRADING OPERATIONS

1. On-site grading will utilize standard grading equipment to achieve the proposed grades as shown on this plan.
2. Strip the on-site top soil as encountered and stock pile with a silt fence installed at the stock pile perimeter.
3. On-site equipment will immediately excavate the ditches as shown starting on the downstream end to prevent water ponding.
4. On-site equipment will unload, spread and compact the delivered material in accordance with geotechnical report to the proposed grades shown on this plan.
5. All proposed turf areas, once constructed to final grade shall be seeded/sodded within 7 days after final grading of the site where shown on the plan. Should weather cause delays in earthwork operations, additional ditch checks and/or siltation may be required.
6. All grading operations subject to the conditions and recommendations of the geotechnical report.

Siltation Control Schedule Implementation

1. Installation of perimeter sediment control shall be implemented prior to grubbing the site.
2. Installation of internal silt fences required immediately after the site reaches final grade or as required as intermediate silt, control.
3. Inspection of siltation control devices shall take place once every day and within 1 day of any rain event. Any siltation control in need of repair shall occur immediately.
4. All siltation control devices shall remain in place until upslope areas have been permanently stabilized.

Temporary Access Roads and Parking Areas Specifications
As coordinated and required by the City Inspector

1. Temporary roads shall follow the contour of the natural terrain to the extent possible. Slopes should not exceed 10 percent.
2. Grades should be sufficient to provide drainage, but should not exceed 10 percent.
3. Roadbeds & construction parking shall be as shown on the plan.
4. All cuts and fills shall be 3:1 or flatter to the extent possible.
5. Drainage ditches shall be provided as needed.
6. The roadbed or parking surface shall be cleared of all vegetation, roots and other objectionable material.
7. A 10-inch course of 2" MINUS aggregate shall be applied immediately before grading or after the completion of utility installation within the right-of-way. Filter fabric may be applied to the roadbed for additional stability in accordance with fabric manufacturer's specifications.

Vegetation

All roadside ditches, cuts, fills and disturbed areas adjacent to parking areas and roads shall be stabilized with appropriate temporary or permanent vegetation according to the applicable standards and specifications.

Maintenance

Both temporary and permanent roads and parking areas may require periodic top dressing with new gravel. Seeded areas adjacent to the roads and parking areas should be checked periodically to ensure that a vigorous stand of vegetation is maintained. Roadside ditches and other drainage structures should be checked regularly to ensure that they do not become clogged with silt or other debris.

Silt Fence Specifications

1. Silt Fence to be woven geotextile fabric Mirafi 100X or equal.
2. Fabric shall be entrenched and backfilled. A trench shall be excavated a minimum of 6 inches deep for the length of the fence. The excavated soil shall be backfilled against the fence. See detail this sheet.
3. Fence height shall be a minimum of 2 feet in height above grade, with the fabric installed on the fence on the upstream side.
4. Silt fences shall be used only on sheet flow conditions.

Maintenance

1. Silt fence barriers shall be inspected immediately after each rainfall and at least daily during prolonged rainfall.
2. Should the silt fence become ineffective prior to the end of the expected usable life, and are still necessary, the barriers shall be replaced promptly.
3. Sediment deposits should be removed after each rainfall. They must be removed when the level of deposition reaches approximately one-half of the height of the barrier.
4. Any sediment deposits remaining in place after the silt fence barrier is no longer required shall be dressed to conform to the existing grade, prepared and seeded.

SCALE: 3" = 1'-0" 1' 0 6'
SCALE: 1 1/2" = 1'-0" 2' 0 3' 1'
SCALE: 1" = 1'-0" 2' 0 1' 6" 1'
SCALE: 3/4" = 1'-0" 3' 0 2' 1'
SCALE: 1/2" = 1'-0" 4' 0 2' 1'
SCALE: 3/8" = 1'-0" 6' 0 4' 2'
SCALE: 1/4" = 1'-0" 8' 0 4' 2'
SCALE: 1/8" = 1'-0" 16' 0 8' 4'
SCALE: 3/32" = 1'-0" 24' 0 16' 8'
SCALE: 1/16" = 1'-0" 32' 0 16' 8'

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Proposed:
CENTRAL COUNTY FIRE & RESCUE
ST. PETERS, MO 63376
360/340 ECOLOGY DRIVE

Revision
No.
Date

SPECIFICATIONS SHEET

Project No.
2464

Sheet No.
C2.0

09/16/2025

SCALE: 1/16" = 1'-0"
0 8' 16' 32'

SCALE: 3/32" = 1'-0"
0 8' 16' 24'

SCALE: 1/8" = 1'-0"
0 4' 8' 16'

SCALE: 1/4" = 1'-0"
0 2' 4' 8'

SCALE: 3/8" = 1'-0"
0 2' 4' 6'

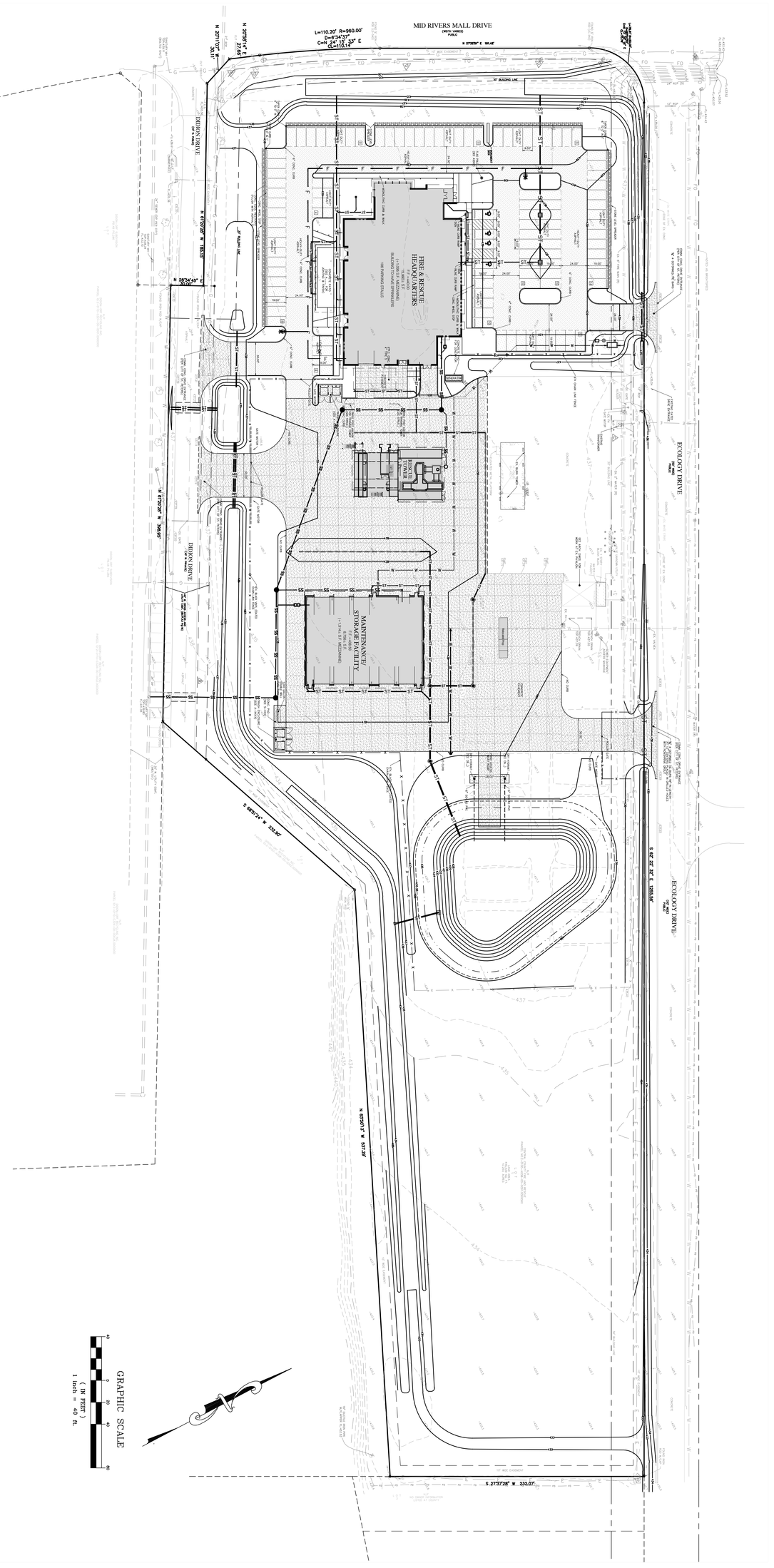
SCALE: 1/2" = 1'-0"
0 1' 2' 4'

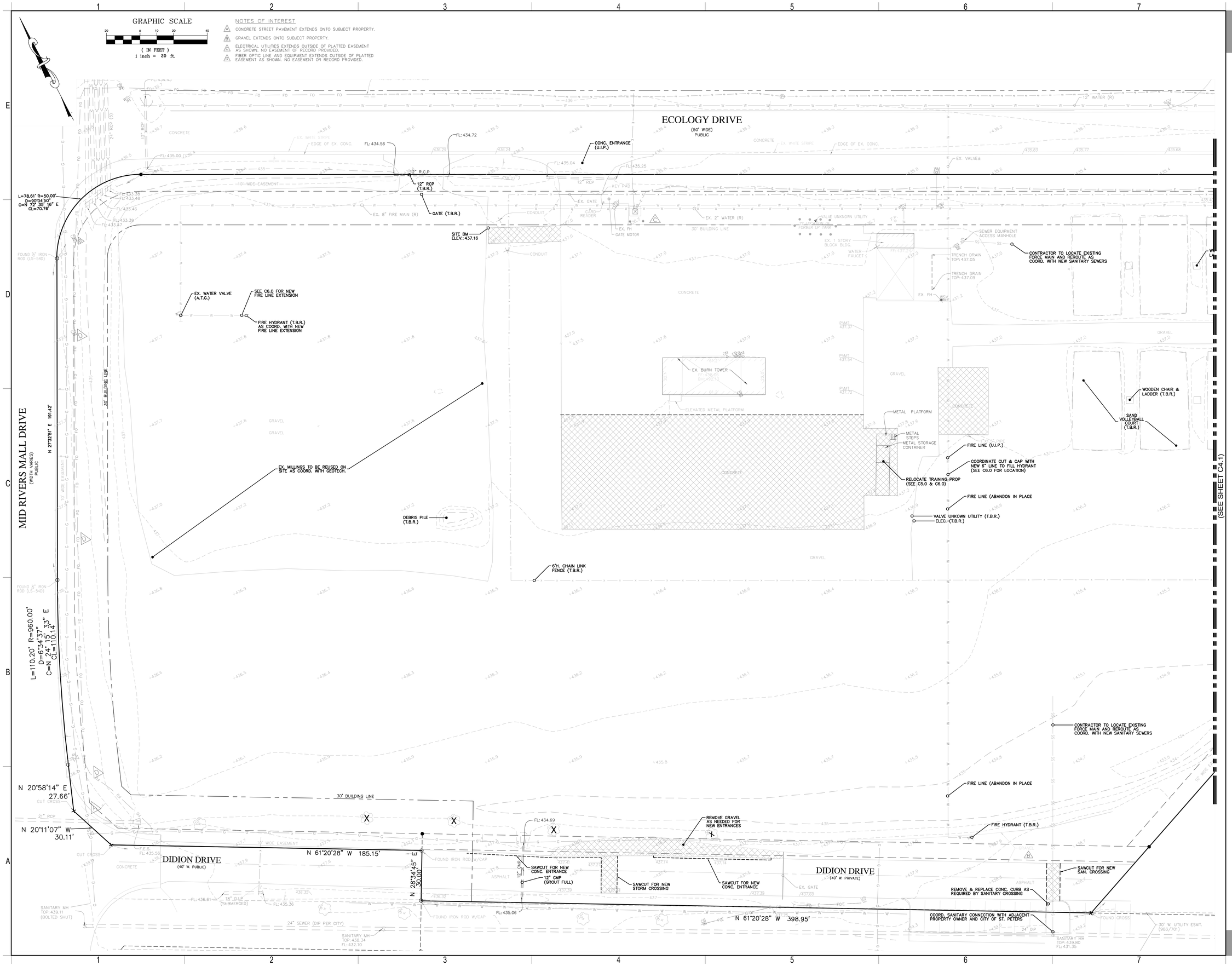
SCALE: 3/4" = 1'-0"
0 1' 2' 3'

SCALE: 1" = 1'-0"
0 6" 1' 2'

SCALE: 1 1/2" = 1'-0"
0 3" 6" 1' 2'

SCALE: 3" = 1'-0"
0 3" 6" 1'


MID RIVERS MALL DRIVE
(MEDIA VARIES)
PUBLIC
L=110.20' R=960.00'
D=6°34'31"
C=N 24° 16' 33" E
C=110.14'
N 20°07'47" E 27.66'
N 20°07'47" E 30.13'
N 28°34'48" E 33.52'
N 28°34'48" W 1,305.49'
N 28°34'48" W 1,305.49'
N 28°34'48" W 1,305.49



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360/340 ECOLOGY DRIVE
ST. PETERS, MO 63376

No.	Date	Revision

EXISTING CONDITIONS & FACILITIES REMOVAL PLAN

Project No. 2464

Sheet No. C4.0

09/16/2025

ECOLOGY DRIVE
(50' WIDE)
PUBLIC

S 62° 22' 32" E 1255.56'

REMOVE CULVERT
FL: 434.30
12" RCP
FL: 434.07
GRAVEL ENTRANCE (T.B.R.)
FOUND IRON ROD W/CAP
10' WIDE EASEMENT
30' BUILDING LINE

CUT & CAP EX. WATER (INSTALL ABOVE GRADE MARKER)

EXISTING
AS
Y SEWERS

WOODEN CHAIR & LADDER (T.B.R.)
FIRE HYDRANT (T.B.R.)
(T.B.R.)
POST
(T.B.R.)
SAND VOLLEYBALL COURT (T.B.R.)
WOODEN CHAIR & LADDER (T.B.R.)

GRAVEL

WOODEN CHAIR & LADDER (T.B.R.)
SAND VOLLEYBALL COURT (T.B.R.)
WOODEN CHAIR & LADDER (T.B.R.)

N/F
CENTRAL COUNTY FIRE AND RESCUE
PARCEL NO.2-0100-A008-00-0001.0000000
L O T
1
LAND AREA
446,529 SQ. FT.
10.25± ACRES

S 27°37'28" W 232.07'
10' WIDE EASEMENT

(SEE SHEET C4.0)

6'H. CHAIN LINK FENCE (U.I.P.)
CONTRACTOR TO COORD. REMOVAL WITH NEW FENCE LOCATION AND PROPOSED GRADING
6'H. CHAIN LINK FENCE (T.B.R.)

EXISTING MESH TO BE REUSED

N 65°50'13" W 537.29'

FOUND 1/2" IRON ROD

18" DUCTILE IRON PIPE W/FLAPPER FL: 432.02

10' WIDE EASEMENT

RACTOR TO LOCATE EXISTING
E MAIN AND REROUTE AS
D. WITH NEW SANITARY SEWERS

S 68°51'24" W 232.90'

WCUT FOR NEW
N. CROSSING

FOUND CROSS

30' W. UTILITY ESMT.
(983/701)

GRAPHIC SCALE
20 0 10 20 40
(IN FEET)
1 inch = 20 ft.

NOTES OF INTEREST

1. CONCRETE STREET PAVEMENT EXTENDS ONTO SUBJECT PROPERTY.
2. GRAVEL EXTENDS ONTO SUBJECT PROPERTY.
3. ELECTRICAL UTILITIES EXTENDS OUTSIDE OF PLATTED EASEMENT AS SHOWN; NO EASEMENT OF RECORD PROVIDED.
4. FIBER OPTIC LINE AND EQUIPMENT EXTENDS OUTSIDE OF PLATTED EASEMENT AS SHOWN; NO EASEMENT OR RECORD PROVIDED.

SCALE: 3" = 1'-0" 1' 0 6" 3"
SCALE: 1 1/2" = 1'-0" 2' 0 3" 1'
SCALE: 1" = 1'-0" 2' 0 6" 1'
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360/340 ECOLOGY DRIVE

Revision
Date
No.

EXISTING CONDITIONS & FACILITIES REMOVAL PLAN

Project No.
2464

Sheet No.
C4.1

09/16/2025

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.

SCALE: 3" = 1'-0" SCALE: 1 1/2" = 1'-0" SCALE: 1" = 1'-0" SCALE: 3/4" = 1'-0" SCALE: 1/2" = 1'-0" SCALE: 3/8" = 1'-0" SCALE: 1/4" = 1'-0" SCALE: 1/8" = 1'-0" SCALE: 3/32" = 1'-0" SCALE: 1/16" = 1'-0"

ECOLOGY DRIVE
(50' WIDE)
PUBLIC

MID RIVERS MALL DRIVE
(WIDTH VARIES)
PUBLIC

DIDION DRIVE
(40' W. PUBLIC)

DIDION DRIVE
(40' W. PRIVATE)

FIRE & RESCUE HEADQUARTERS
F.F.=440.00
15,990± S.F.
(+1,095 S.F. MEZZANINE)
BUILDING TO HAVE SPRINKLERS

106 PARKING STALLS

RESCUE TOWER

MAINTENANCE/ STORAGE FACILITY
F.F.=438.50
8,756± S.F.
(+1,314± S.F. MEZZANINE)

EX. BURN TOWER

Relocated Prop

(SEE SHEET C5.1)

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Proposed:
CENTRAL COUNTY FIRE & RESCUE
ST. PETERS, MO 63376
380/340 ECOLOGY DRIVE

No.	Date	Revision

SITE AND GRADING PLAN

Project No.
2464

Sheet No.
C5.0

09/16/2025

ECOLOGY DRIVE
(50' WIDE)
PUBLIC

S 62° 22' 32" E 1255.56'

POND
NORMAL POOL: 435.0
STORM WATER QUALITY
AND FIRE DISTRICT
TRAINING

S 27°37'28" W 232.07'

N 65°50'13" W 537.29'

S 68°51'24" W 232.90'

(SEE SHEET C5.0)

30' BUILDING LINE

10' WIDE EASEMENT

30' W. UTILITY ESMT.
(983/701)

N/F
CENTRAL COUNTY FIRE AND RESCUE
PARCEL NO.2-0100-A008-00-0001.0000000

L O T
1
LAND AREA
446,529 SQ. FT.
10.25± ACRES

S
434.05

(19) F.E.S.
FL=433.90

GRADE
433.50

GRADE
433.00

(3) E.O.P.
FL=430.00

(4) STORM MH
TOP: 437.50
FL: 430.50

OUTFALL
STRUCTURE
SILL: 435.80
FL: 433.80

(2)

(1) F.E.S.
FL: 433.70

8"W FLAT BOTTOM DITCH
@ 0.2% SLOPE

8"PVC
FL=432.35

18" DUCTILE IRON PIPE
W/FLAPPER FL=432.52

FOUND IRON
ROD W/CAP

FOUND ⅝"
IRON ROD

GRAPHIC SCALE
20 0 10 20 40
(IN FEET)
1 inch = 20 ft.

SCALE: 3" = 1'-0"
SCALE: 1 1/2" = 1'-0"
SCALE: 1" = 1'-0"
SCALE: 3/4" = 1'-0"
SCALE: 1/2" = 1'-0"
SCALE: 3/8" = 1'-0"
SCALE: 1/4" = 1'-0"
SCALE: 1/8" = 1'-0"
SCALE: 3/32" = 1'-0"
SCALE: 1/16" = 1'-0"

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Proposed:
CENTRAL COUNTY FIRE & RESCUE
ST. PETERS, MO 63376
360/340 ECOLOGY DRIVE

Revision
Date
No.

SITE AND GRADING PLAN

Project No.
2464

Sheet No.
C5.1

09/16/2025

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.

ECOLOGY DRIVE
(50' WIDE)
PUBLIC

MID RIVERS MALL DRIVE
(WIDTH VARIES)
PUBLIC

DIDION DRIVE
(40' W. PUBLIC)

DIDION DRIVE
(40' W. PRIVATE)

COMM. CONC. DRIVE ENTRANCE (PER CITY OF ST. PETERS)
⅝" ø DEFORMED TIE BARS
EXISTING GATED DRIVE ENTRANCE
⅝" ø DEFORMED TIE BARS 18" IN LENGTH AT 12" CENTERS PLACED IN DRILLED HOLES WITH NONSHRINK GROUT

FIRE & RESCUE HEADQUARTERS
F.F.=440.00
15,990± S.F.
(+1,095 S.F. MEZZANINE)
BUILDING TO HAVE SPRINKLERS
106 PARKING STALLS

RESCUE TOWER

MAINTENANCE/ STORAGE FACILITY
F.F.=438.50
8,756± S.F.
(+1,314± S.F. MEZZANINE)

EX. 1 STORY BLOCK BLDG.

EX. BURN TOWER

ELEVATED METAL PLATFORM

CONCRETE PAVEMENT

Relocated Prop

L=78.61' R=50.00'
D=90°04'50"
C=N 72° 35' 16" E
CL=70.76'

L=110.20' R=960.00'
D=6°34'37"
C=N 24° 15' 33" E
CL=110.14'

N 27°32'51" E 191.42'

N 20°58'14" E
27.66'

N 20°11'07" W
30.11'

N 61°20'28" W 185.15'

N 28°54'45" E
30.00'

N 61°20'28" W 398.95'

(SEE SHEET C6.1)

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Proposed:
CENTRAL COUNTY FIRE & RESCUE
360/340 ECOLOGY DRIVE
ST. PETERS, MO 63376

No.	Date	Revision

SITE GEOMETRY AND UTILITY PLAN

Project No.
2464

Sheet No.
C6.0

09/16/2025

ECOLOGY DRIVE
(50' WIDE)
PUBLIC

COMM. CONC. DRIVE ENTRANCE
(PER CITY OF ST. PETERS)

¾" ø DEFORMED TIE BARS 18" IN LENGTH AT 12" CENTERS PLACED IN DRILLED HOLES WITH NONSHRINK GROUT

NO CURB

CONCRETE

S 62° 22' 32" E 1255.56'

FOUND IRON ROD W/CAP

10' WIDE EASEMENT

30' BUILDING LINE

ROLLER GATE

GATE MOTOR

NO CURB

30.00'

LIGHT STANDARD
(SEE E006)

DRY HYDRANT
(SEE C8.__)

6" SCH.40 PVC

POND ACCESS
BOAT RAMP

28.00'

DRY HYDRANT
(SEE C8.__)

6" SCH.40 PVC

FILL HYDRANT

NO CURB

6'H. BLACK VINYL COATED
CHAIN-LINK FENCE

(SEE SHEET C6.0)

LIGHT STANDARD
(SEE E006)

URE

N/F
CENTRAL COUNTY FIRE AND RESCUE
PARCEL NO.2-0100-A008-00-0001.0000000

L O T
1

LAND AREA
446,529 SQ. FT.
10.25± ACRES

10' WIDE EASEMENT

S 27°37'28" W 232.07'

10' WIDE EASEMENT

N 65°50'13" W 537.29'

FOUND ½"
IRON ROD

10' WIDE EASEMENT

S 68°51'24" W 232.90'

L O T
1

N/F
SIGNATURE HOMES, INC.
PARCEL NO.2-0100-A008-00-0002.0000000

FOUND CROSS

30' W. UTILITY ESMT.
(983/701)

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.

SCALE: 3" = 1'-0" 1' 0 3" 6"
SCALE: 1 1/2" = 1'-0" 2' 0 3" 1'
SCALE: 1" = 1'-0" 2' 0 6" 1'
SCALE: 3/4" = 1'-0" 3' 0 2' 1'
SCALE: 1/2" = 1'-0" 4' 0 2' 1'
SCALE: 3/8" = 1'-0" 6' 0 2' 4'
SCALE: 1/4" = 1'-0" 8' 0 2' 4'
SCALE: 1/8" = 1'-0" 16' 0 8' 4'
SCALE: 3/32" = 1'-0" 24' 0 8' 16'
SCALE: 1/16" = 1'-0" 32' 0 8' 16'

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Proposed:
CENTRAL COUNTY FIRE & RESCUE
360/340 ECOLOGY DRIVE ST. PETERS, MO 63376

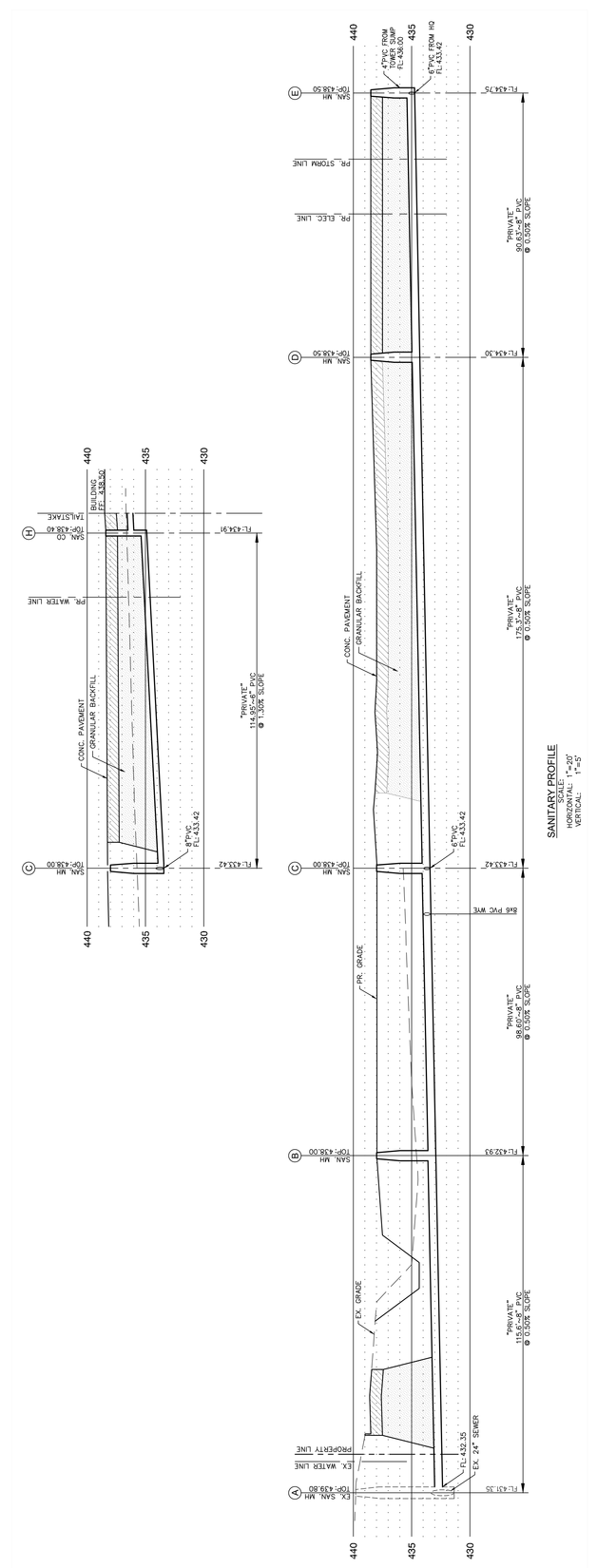
Revision
Date
No.

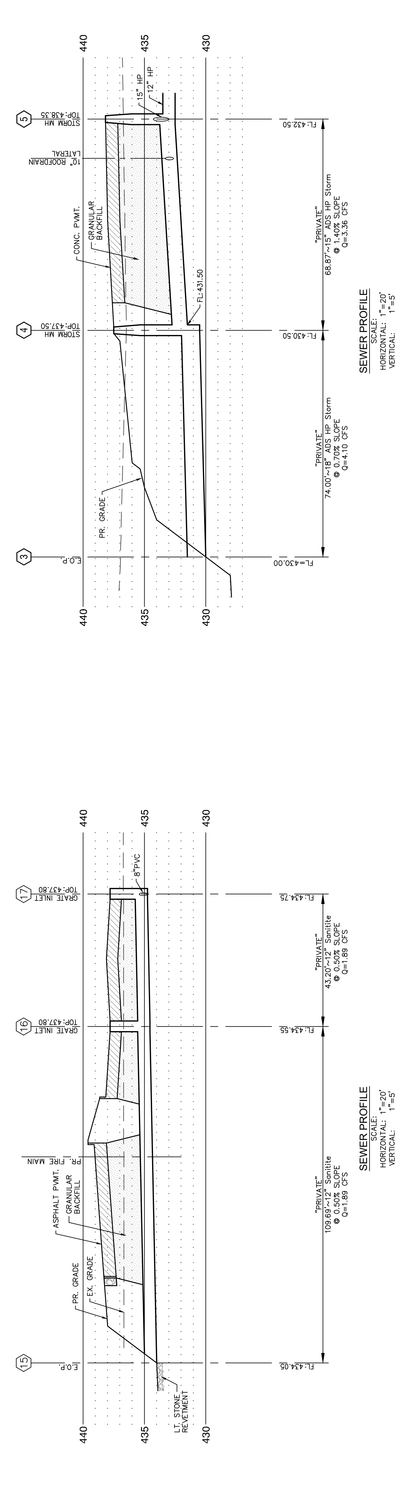
SITE GEOMETRY AND UTILITY PLAN

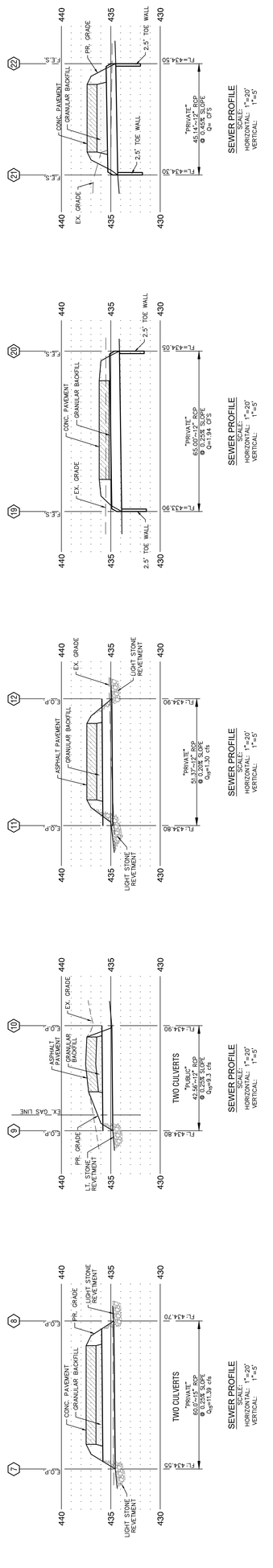
Project No.
2464

Sheet No.
C6.1

09/16/2025







SCALE: 3" = 1'-0" | SCALE: 1 1/2" = 1'-0" | SCALE: 1" = 1'-0" | SCALE: 3/4" = 1'-0" | SCALE: 1/2" = 1'-0" | SCALE: 3/8" = 1'-0" | SCALE: 1/4" = 1'-0" | SCALE: 1/8" = 1'-0" | SCALE: 3/32" = 1'-0" | SCALE: 1/16" = 1'-0"

Proposed:

CENTRAL COUNTY FIRE & RESCUE

360/340 ECOLOGY DRIVE ST. PETERS, MO 63376

No.	Date	Revision
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

SEWER PROFILES

Project No. 2464

Sheet No. C7.0

09/16/2025

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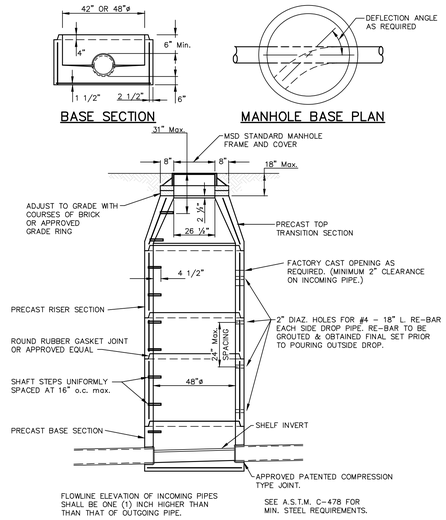
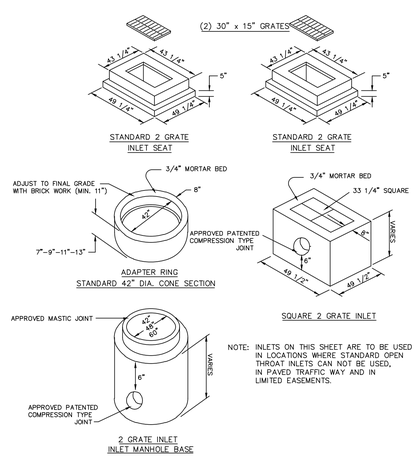
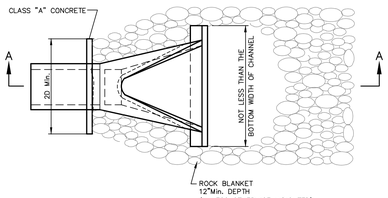
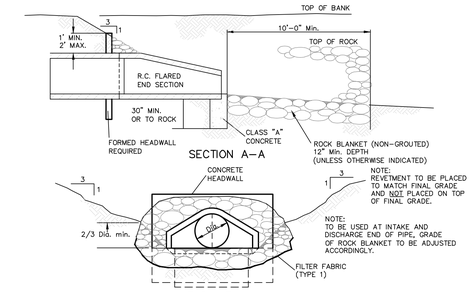
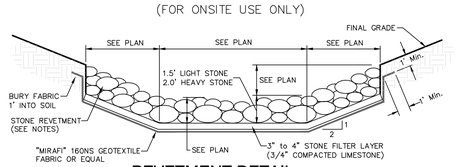


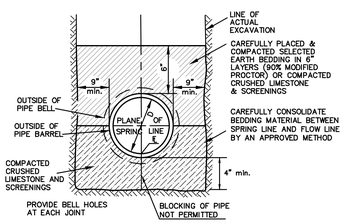


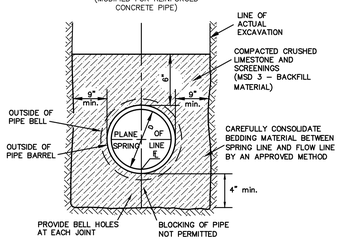


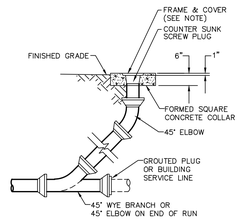




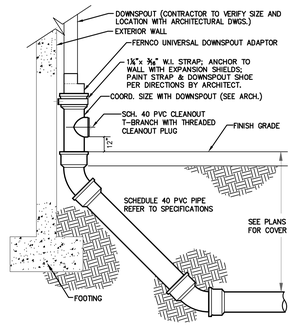
1. STONE FOR HEAVY STONE REVETMENT SHALL BE SOUND, DURABLE, AND FREE FROM CRACKS AND OTHER STRUCTURAL DEFECTS THAT WOULD CAUSE IT TO DETERIORATE. IT SHALL NOT CONTAIN ANY SOAPSTONE, SHALE, OR OTHER MATERIAL EASILY DISINTEGRATED. THE STONE SHALL BE AT LEAST 12 INCH TO 18 INCH DIAMETER dm 15 INCH.
2. STONE FOR LIGHT STONE REVETMENT SHALL BE AT LEAST 6 INCH TO 8 INCH DIAMETER.
3. STONE SHOULD BE PLACED TO MATCH PROFILE OF ADJACENT GRADE AND **NOT** 'DUMPED' ON TOP OF GRADE







NOTE TO CONTRACTOR: THE TYPE OF LID/COVER FOR THE CLEANOUT IS DEPENDENT ON THEIR LOCATION–CONTRACTOR TO CONTACT ENGINEER WITH ANY QUESTIONS.
ASPHALT OR CONCRETE PAVEMENT: *CAST IRON*
LAWN OR LANDSCAPE AREAS: *PLASTIC*

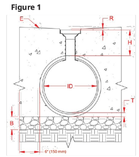


Duraslot® XL Installation Guide

Introduction

- Read this guide to account for additional incidental materials required to complete the installation.
- Detailed burial depth and backfill information should be determined before beginning construction. Duraslot XL installation and backfill conditions will vary depending on the diameter and expected loading application.
- Assembly Guide and Field Cut Instructions can be found within this guide in the following pages.

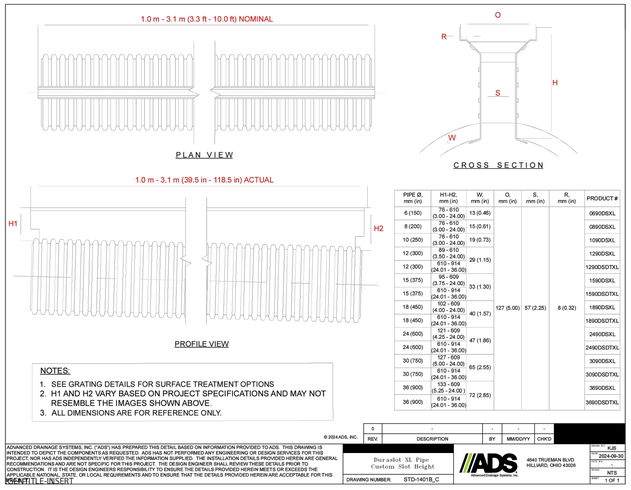
Figure 1



Installation Guidelines

1. Excavate the pipe trench corresponding to the site plans.
   - If not provided, assume a trench width 12" (300 mm) wider than the pipe diameter to be installed (Figure 1).
   - When calculating excavation depths be sure to account for:
     - o 1/8" (3 mm) slot riser recess (R) below the finished pavement grade (E).
     - o Pipe corrugation height or pipe wall thickness (T), as invert elevations are from the inside diameter (ID) and do not account for wall thickness below the flowline.
     - o Additional depth of any base material (B) required.
2. As required, place base material (B) level in the bottom of the trench. Compact as needed.
3. Place and assemble the Duraslot XL pieces in the bottom of the trench.
   - **Do not remove the metal cap until concrete is completely poured and has cured.**
   - Refer to the "Assembly Guide" in the next section for hardware assembly instructions.
   - Duraslot XL can be cut in the field to the desired length. Refer to the "Field Cut Instructions" on the following pages.
   - A Duraslot XL adapter is required to connect to the outlet pipe or structure, unless connecting to a Nyloplast basin.

ADS
adspipe.com
800-821-6710



NOTES:
1. SEE GRATING DETAILS FOR SURFACE TREATMENT OPTIONS
2. H1 AND H2 VARY BASED ON PROJECT SPECIFICATIONS AND MAY NOT RESEMBLE THE IMAGES SHOWN ABOVE.
3. ALL DIMENSIONS ARE FOR REFERENCE ONLY.

PIPE Ø, mm (in)	H1-H2, mm (in)	W, mm (in)	O, mm (in)	S, mm (in)	R, mm (in)	PRODUCT #
6 (150)	76 - 610 (3.00 - 24.00)	13 (0.46)				0690DSXL
8 (200)	76 - 610 (3.00 - 24.00)	15 (0.61)				0890DSXL
10 (250)	76 - 610 (3.00 - 24.00)	19 (0.73)				1090DSXL
12 (300)	89 - 610 (3.50 - 24.00)	39 (1.15)				1290DSXL
12 (300)	610 - 914 (24.01 - 36.00)					1290DSDTXL
15 (375)	95 - 609 (3.75 - 24.00)	33 (1.30)				1590DSXL
15 (375)	610 - 914 (24.01 - 36.00)					1590DSDTXL
18 (450)	102 - 609 (4.00 - 24.00)	40 (1.57)	127 (5.00)	57 (2.25)	8 (0.32)	1890DSXL
18 (450)	610 - 914 (24.01 - 36.00)					1890DSDTXL
24 (600)	121 - 609 (4.25 - 24.00)	47 (1.86)				2490DSXL
24 (600)	610 - 914 (24.01 - 36.00)					2490DSDTXL
30 (750)	127 - 609 (5.00 - 24.00)	65 (2.55)				3090DSXL
30 (750)	610 - 914 (24.01 - 36.00)					3090DSDTXL
36 (900)	133 - 609 (5.25 - 24.00)	72 (2.85)				3690DSXL
36 (900)	610 - 914 (24.01 - 36.00)					3690DSDTXL

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REV	DESCRIPTION	BY	MM/DD/YY	CHK'D
0	-	-	-	-

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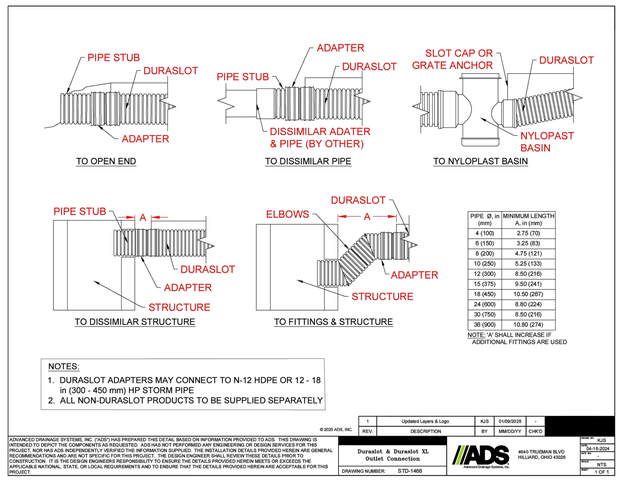
TITLE: INSERT

Duraslot XL Pipe Custom Shot Height

DRAWING NUMBER: STD-1401B_C

4640 TRUEMAN BLVD HILLIARD, OHIO 43026

DRAWN BY:	KJS
DATE:	2024-09-30
SCALE:	NTS
SHEET:	1 OF 1



PIPE Ø, in (mm)	MINIMUM LENGTH A, in (mm)
4 (100)	2.75 (70)
6 (150)	3.25 (83)
8 (200)	4.75 (121)
10 (250)	5.25 (133)
12 (300)	8.50 (216)
15 (375)	9.50 (241)
18 (450)	10.50 (267)
24 (600)	8.80 (224)
30 (750)	8.50 (216)
36 (900)	10.80 (274)

NOTE: 'A' SHALL INCREASE IF ADDITIONAL FITTINGS ARE USED

NOTES:
1. DURASLOT ADAPTERS MAY CONNECT TO N-12 HDPE OR 12 - 18 in (300 - 450 mm) HP STORM PIPE
2. ALL NON-DURASLOT PRODUCTS TO BE SUPPLIED SEPARATELY

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REV	DESCRIPTION	BY	MM/DD/YY	CHK'D
1	Updated Layers & Logo	KJS	01/09/2026	-

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Duraslot & Duraslot XL Outlet Connection

DRAWING NUMBER: STD-1466

4640 TRUEMAN BLVD HILLIARD, OHIO 43026

DRAWN BY:	KJS
DATE:	06-18-2024
SCALE:	NTS
SHEET:	1 OF 1

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Proposed: CENTRAL COUNTY FIRE & RESCUE
ST. PETERS, MO 63376
3803040 ECOLOGY DRIVE

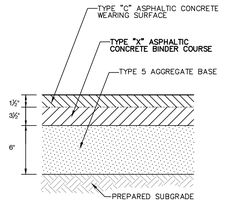
No.	Date	Revision

SEWER PROFILES AND HYDRAULIC DATA

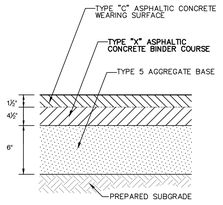
Project No. 2464

Sheet No. C7.1

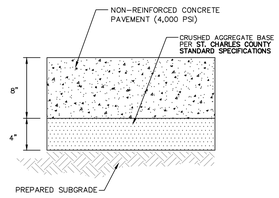
09/16/2025



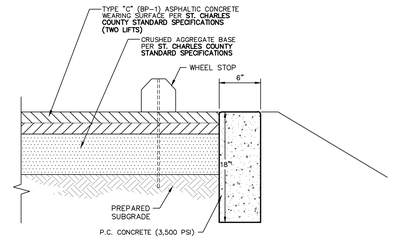
LIGHT DUTY ASPHALT PAVEMENT DETAIL
(N.T.S.)



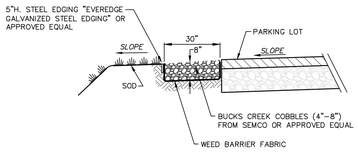
HEAVY DUTY ASPHALT PAVEMENT DETAIL
(N.T.S.)



CONCRETE PAVEMENT DETAIL
(FOR USE IN APPROACHES, DUMPSTER PAD AND PRIMARY DRIVE AREAS)



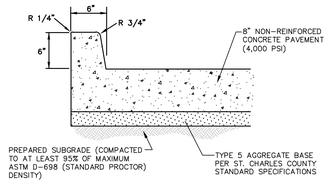
CONCRETE EDGE RESTRAINT
(N.T.S.)



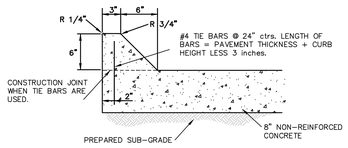
STONE LEVEL SPREADER
(NOT TO SCALE)

NOTES:

1. REFER TO SITE PLAN FOR AREAS OF PAVEMENT TYPE AND THICKNESS.
2. EXPANSION MATERIAL SHALL BE INSTALLED EVERY 20' IN CURB. EXPANSION MATERIAL SHALL BE OF A TYPE EQUAL TO THE ASPHALT IMPREGNATED FIBERBOARD CONFORMING TO ASTM C 175 FOR EXTERIOR WORK. EXPANSION MATERIAL SHALL EXTEND FULL DEPTH OF CURB AND GUTTER, LESS 1/4" AT TOP OF CONCRETE.
3. CURBS TO BE PROVIDED WITH SAW CUT OR TOOLED JOINT AT 10' INTERVALS.
4. JOINTS AND SAW CUTS TO BE SEALED WITH LIMESTONE COLORED SEALANT.
5. TYPE 5 AGGREGATE REFERS TO **ST. CHARLES COUNTY** SPECIFICATION



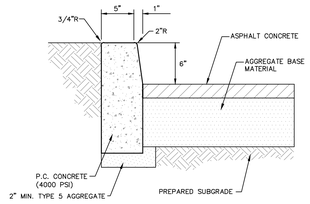
BARRIER CURBING DETAIL
N.T.S.



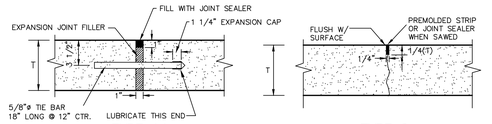
MOUNTABLE CURBING DETAIL
N.T.S.

NOTES:

1. REFER TO SITE PLAN FOR AREAS OF PAVEMENT TYPE AND THICKNESS.
2. EXPANSION MATERIAL SHALL BE INSTALLED EVERY 20' IN CURB. EXPANSION MATERIAL SHALL BE OF A TYPE EQUAL TO THE ASPHALT IMPREGNATED FIBERBOARD CONFORMING TO ASTM C 175 FOR EXTERIOR WORK. EXPANSION MATERIAL SHALL EXTEND FULL DEPTH OF CURB AND GUTTER, LESS 1/4" AT TOP OF CONCRETE.
3. CURBS TO BE PROVIDED WITH SAW CUT OR TOOLED JOINT AT 10' INTERVALS.
4. JOINTS AND SAW CUTS TO BE SEALED WITH LIMESTONE COLORED SEALANT.
5. TYPE 5 AGGREGATE REFERS TO **ST. CHARLES** COUNTY SPECIFICATION.



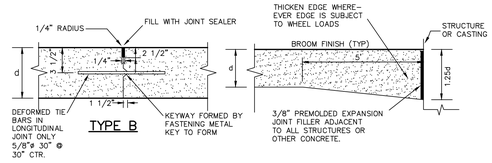
CONCRETE VERTICAL CURB DETAIL
N.T.S.
(NOT FOR USE IN RIGHT-OF-WAY)



TYPE AA EXPANSION JOINT
(NOT FOR USE IN RIGHT-OF-WAY)

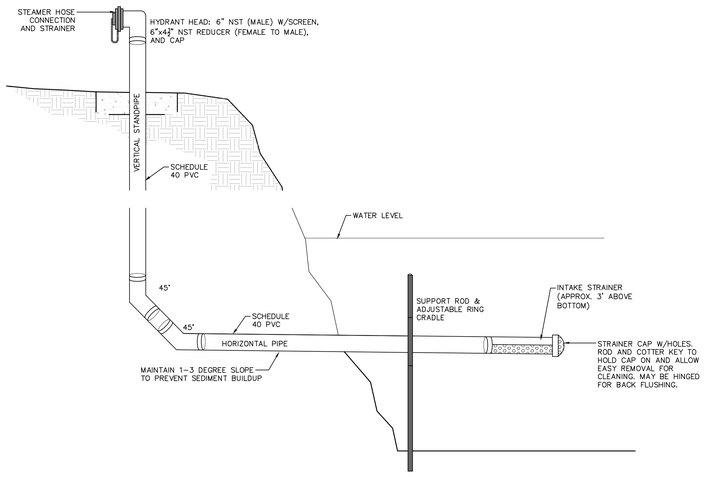
TYPE C CONTRACTION JOINT
(NOT FOR USE IN RIGHT-OF-WAY)

NOTES:
1. CONSTRUCTION JOINTS ARE REQUIRED BETWEEN ALL POURS SEPARATED BY MORE THAN 30 MINUTES TIME.
2. PLACE LONGITUDINAL CONSTRUCTION JOINT AT CENTERLINE OF ROADWAYS WHEN PAVEMENT IS WIDER THAN 12'.
3. MAXIMUM OF FOURTEEN FOOT (14) SPACING BETWEEN CONTROL JOINTS FOR 7" THICK PAVEMENT.
4. FILL JOINTS TO WITHIN 1/8" OF SURFACE WITH JOINT SEALER.
5. JOINTS TO BE SEALED WITH LIMESTONE COLORED SEALANT.
6. WHEN A JOINT FALLS WITHIN 5' OF A MANHOLE, LIGHT POLE BASE, OR OTHER STRUCTURE, SHORTEN ONE OR MORE PANELS ON EITHER SIDE OF STRUCTURE TO ALLOW CONTROL JOINTS TO FALL AT STRUCTURE.
7. CONTRACTOR MAY SUBMIT ALTERNATE JOINTING PLAN TO ENGINEER FOR REVIEW.

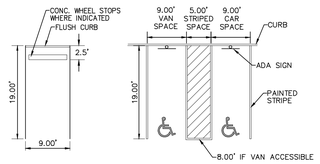


TYPE B CONSTRUCTION JOINT
(NOT FOR USE IN RIGHT-OF-WAY)

ISOLATION JOINT
(NOT FOR USE IN RIGHT-OF-WAY)

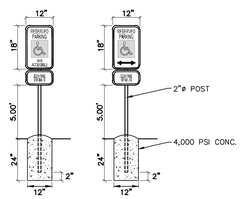


DRY HYDRANT DETAIL
N.T.S.



TYPICAL PARKING STALLS
(n.t.s.)

NOTE:
ADA STRIPING & GRAPHIC SHALL BE WHITE OR PER LOCAL CODE



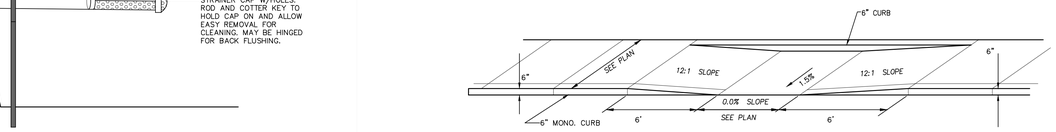
ACCESSIBLE PARKING SIGN

- STANDARD SIGN FACE, STANDARD HIGHWAY DEPARTMENT OR CITY STREET DEPARTMENT GAUGE
- LETTERS AND BORDERS ARE GREEN
- HANDICAP LOGO SQUARE IS BLUE AND THE BACKGROUND IS WHITE
- SET BOTTOM OF "FINE" SIGN 60" A.F.G.

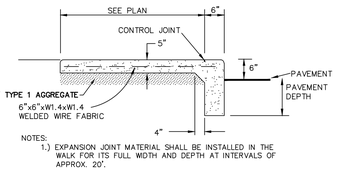


ACCESSIBLE SIGN
(n.t.s.)

NOTE:
ADA GRAPHIC SHALL BE WHITE OR PER LOCAL CODE

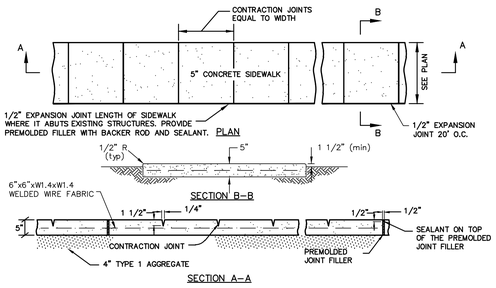


INLINE CURB RAMP
(N.T.S.)



NOTES:
1.) EXPANSION JOINT MATERIAL SHALL BE INSTALLED IN THE WALK FOR ITS FULL WIDTH AND DEPTH AT INTERVALS OF APPROX. 20'.
2.) CONTROL JOINTS SHALL BE INSTALLED AT INTERVALS OF 1.0 TIMES ITS WIDTH.
3.) JOINTS TO BE SEALED WITH LIMESTONE COLORED SEALANT.

MONOLITHIC SIDEWALK/CURB DETAIL
(SIDEWALK AT BUILDING)



DETAIL OF CONCRETE SIDEWALK
(N.T.S.)

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Proposed:
CENTRAL COUNTY FIRE & RESCUE
ST. PETERS, MO 63376
380/340 ECOLOGY DRIVE

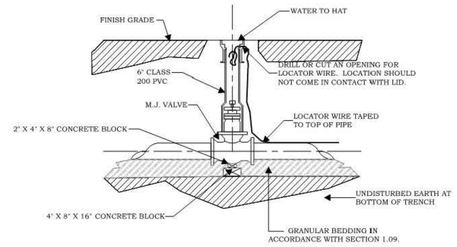
Revision
Date
No.

SITE DETAILS

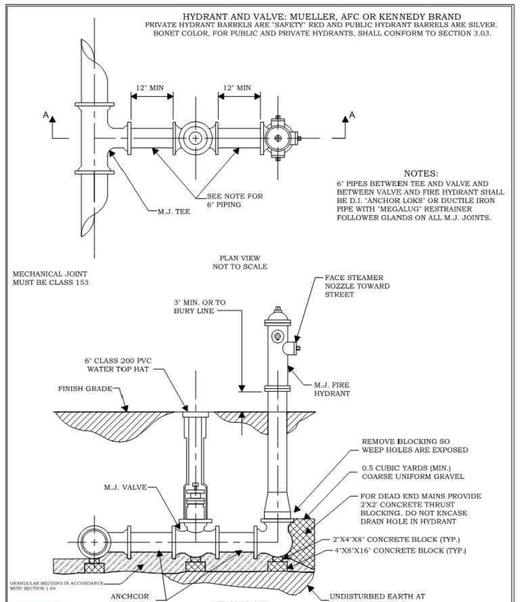
Project No.
2464

Sheet No.
C8.0

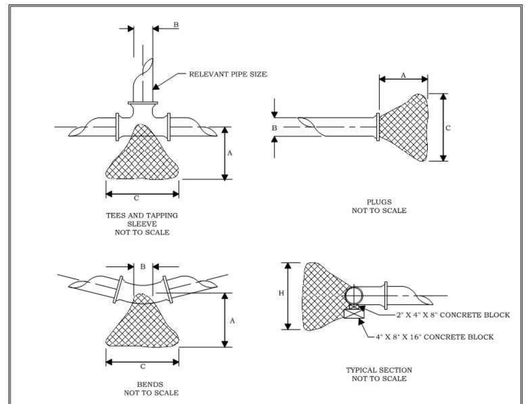
09/16/2025



GATE VALVE DETAIL
NOT TO SCALE
DETAIL "D"



FIRE HYDRANT DETAIL
DETAIL "B"

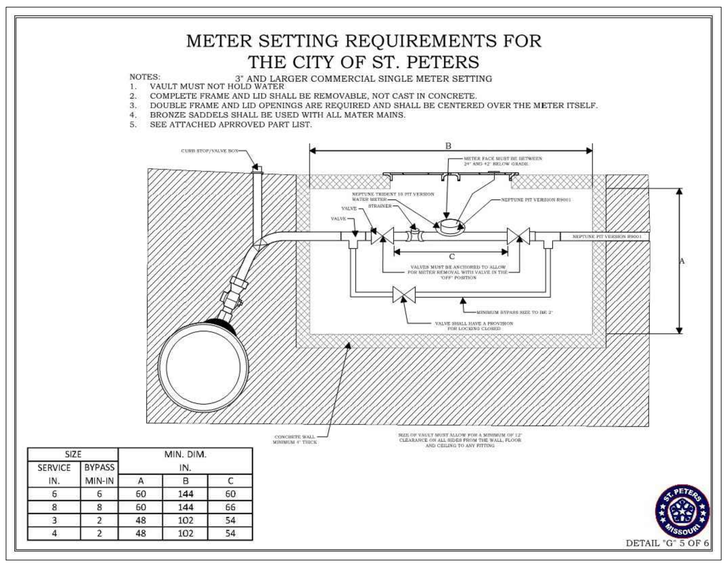


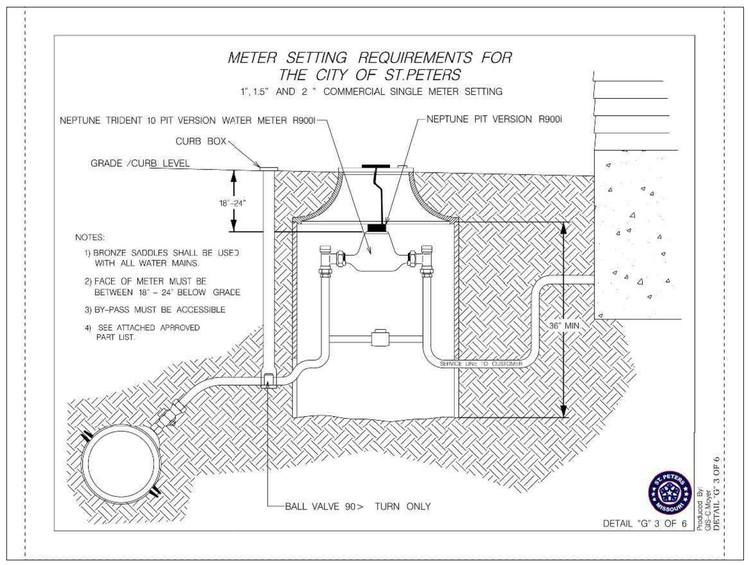
THRUST BLOCK DIMENSIONS - INCHES

PIPE DIA.	ALL FTGS.		TEE PLUG TAPPING		90 DEGREE BEND		45 DEGREE BEND		22-1/2 BEND		11-1/4 BEND	
	A	B	C	H	C	H	C	H	C	H	C	H
4	14	4	24	12	26	15	18	12	12	12	12	12
6	16	6	36	18	36	24	30	18	24	12	12	12
8	20	8	36	30	42	36	36	24	24	18	18	12
10	20	10	48	36	66	36	36	36	28	24	18	18
12	24	12	68	36	82	42	52	36	40	24	28	18

NOTES:
FOR FITTINGS LARGER THAN 12", SPECIAL RESTRAINT DESIGNS ARE REQUIRED.

HORIZONTAL THRUST BLOCKING
DETAIL "C"





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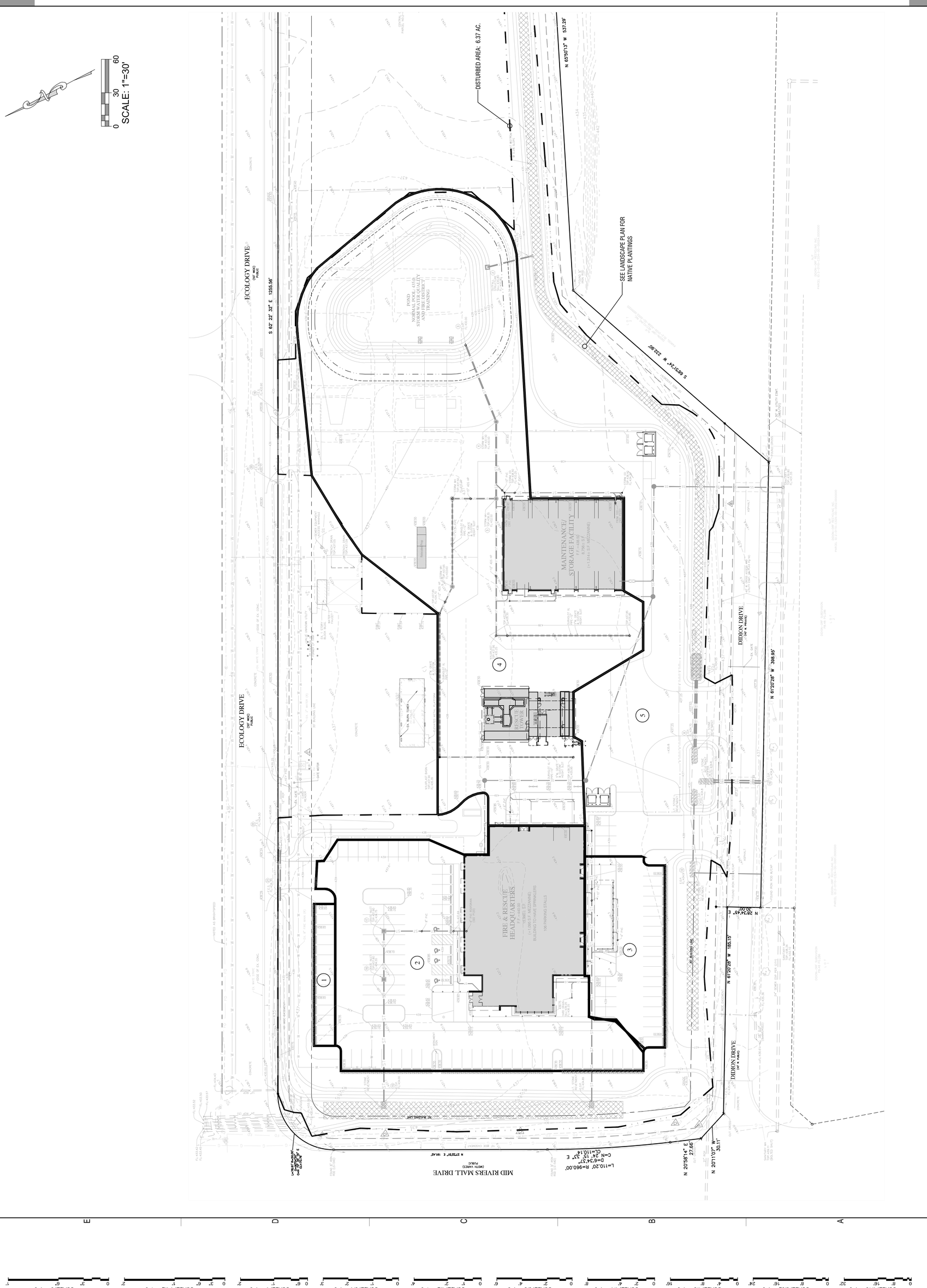
Proposed:
CENTRAL COUNTY FIRE & RESCUE
ST. PETERS, MO 63376
360/340 ECOLOGY DRIVE

Revision
No.
Date
SITE DETAILS

Project No.
2464

Sheet No.
C8.1

09/16/2025



Proposed:

CENTRAL COUNTY FIRE & RESCUE

360/340 ECOLOGY DRIVE
ST. PETERS, MO 63376

BMP PLAN

No.	Date	Revision
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Project No.
2464

Sheet No.
C9.0

09/16/2025

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Differential Runoff Calculations

(15 Year, 20 Minute)

EXISTING CONDITION

IMPERVIOUS AREA	= 1.12 ac. x 3.54 cfs/ac.	= 3.97 cfs
PERVIOUS AREA	= 9.13 ac. x 1.70 cfs/ac.	= 15.52 cfs
	10.25 ac.	19.49 cfs

PROPOSED CONDITION

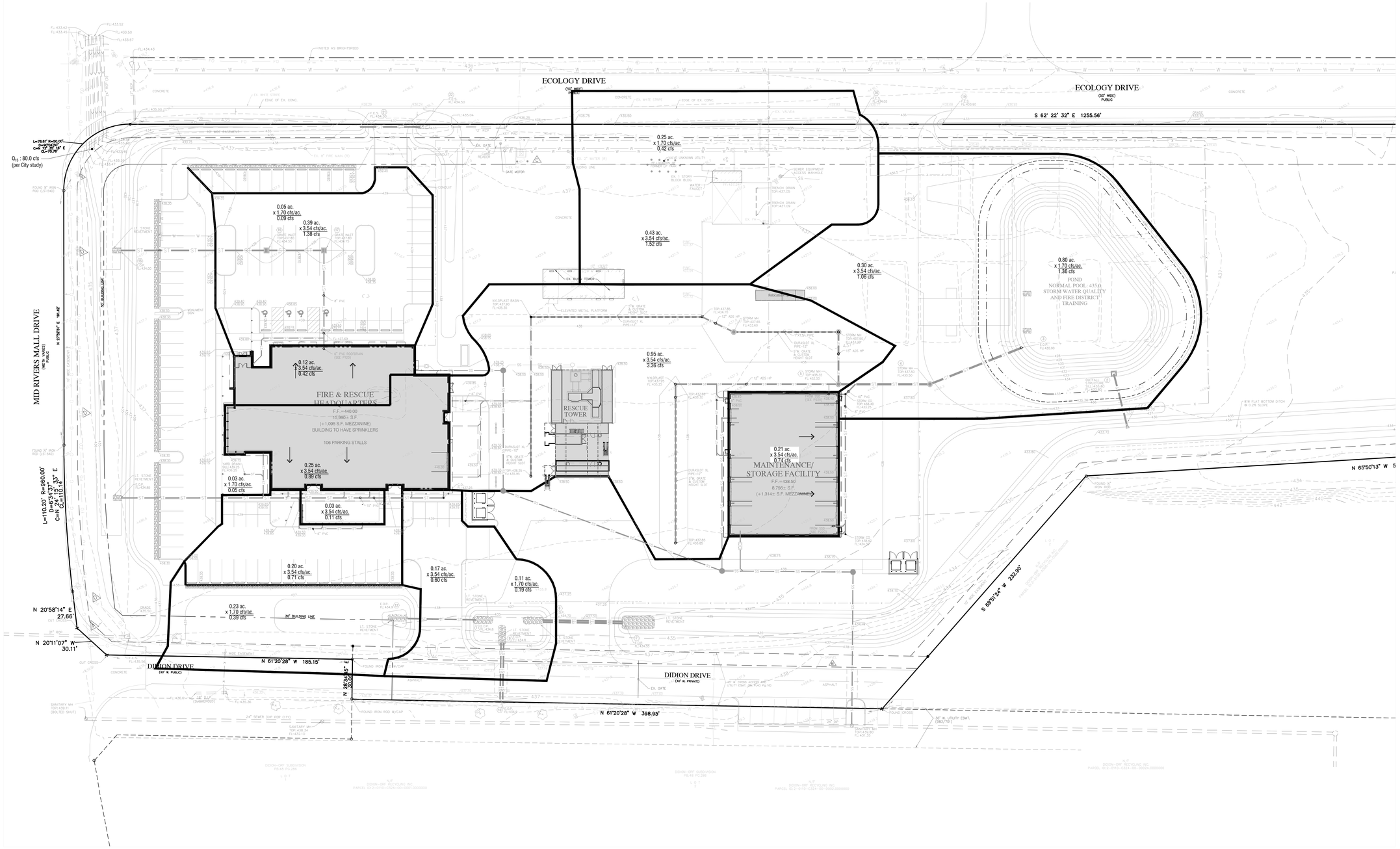
IMPERVIOUS AREA	= 4.15 ac. x 3.54 cfs/ac.	= 14.69 cfs
PERVIOUS AREA	= 6.10 ac. x 1.70 cfs/ac.	= 10.37 cfs
	10.25 ac.	25.06 cfs

DIFFERENTIAL RUNOFF

25.06 cfs - 19.49 cfs = 5.57 cfs

0 30 60

SCALE: 1"=30'



FOR DRAINAGE AREAS ONLY

NOT FOR CONSTRUCTION

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Proposed: CENTRAL COUNTY FIRE & RESCUE

360/340 ECOLOGY DRIVE ST. PETERS, MO 63376

No.	Date	Revision

DRAINAGE AREA PLAN

Project No. 2464

Sheet No. C10.0

09/16/2025

STORM WATER POLLUTION PREVENTION NOTES

1.) SITE OWNER: CENTRAL COUNTY FIRE AND RESCUE
1220 CAVE SPRINGS BLVD.
ST. PETERS, MO 63376

EMERGENCY CONTACT (CONSTRUCTION) TO BE DETERMINED

2.) SITE ADDRESS: 10100 MID RIVERS MALL DR.
ST. PETERS, MO 63376

3.) ALL FILL OR BACKFILL OPERATIONS SHALL BE EXECUTED UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER SHALL DETERMINE THE SUITABILITY AND ASCERTAIN COMPLIANCE WITH SPECIFICATION REQUIREMENTS OF ALL MATERIALS TO BE USED AS FILLS.

4.) TOTAL LAND ESTIMATED TO BE DISTURBED = 6.37 ac. ±

5.) EARTHWORK QUANTITIES
BULK CUT XX+/– CUBIC YARD
BULK FILL XX+/– CUBIC YARD (INCLUDES 15 PERCENT FOR SHRINKAGE)

(SEE EARTHWORK NOTES ON SHEET C2.0).

6.) A CORPORATE SURETY BOND, CONDITIONED UPON CARRYING OUT EACH AND EVERY PART OF APPROVED PLANS FOR AT LEAST THE SUM ESTIMATED TO BE THE FULL COSTS OF CARRYING OUT SUCH PLANS OR A CASH ESCROW, UPON THE SAME CONDITIONS AND IN THE SAME AMOUNT, SHALL BE FURNISHED THE CITY WHENEVER SUCH COSTS EXCEED FIVE HUNDRED DOLLARS ($500.00). THE BOND OR ESCROW SHALL BE RELEASED UPON PROPER COMPLETION OF ALL OF THE REQUIREMENTS OF SUCH APPROVED PLANS.

7.) THE PERMIT HOLDER IS TO ENSURE PROPER INSTALLATION, OPERATION AND MAINTENANCE OF BMP'S AND TO DETERMINE THE OVERALL EFFECTIVENESS OF THE SWPPP AS WELL AS THE NEED FOR ADDITIONAL CONTROL MEASURES TO THE COUNTY. THE PERMIT HOLDER SHALL ALSO BE RESPONSIBLE TO:

a. NOTIFY THE SITE CONTRACTOR(S) RESPONSIBLE FOR ANY DEFICIENCIES IDENTIFIED SO THAT DEFICIENCIES CAN BE CORRECTED WITHIN SEVEN CALENDAR DAYS OF THE INSPECTION REPORT. SUCH WEEKLY INSPECTION REPORTS SHALL IDENTIFY DEFICIENCIES AS WELL AS PROGRESS IN CORRECTING DEFICIENCIES.
b. NOTIFY ALL CONTRACTORS AND OTHER ENTITIES (INCLUDING UTILITY CREWS, COUNTY EMPLOYEES, OR THEIR AGENTS) THAT WILL PERFORM WORK AT THE SITE, OF THE EXISTENCE OF THE SWPPP AND WHAT ACTIONS OR PRECAUTIONS SHALL BE TAKEN WHILE ON SITE TO MINIMIZE THE POTENTIAL FOR EROSION AND THE POTENTIAL FOR DAMAGING ANY BMP'S.
c. DETERMINE THE NEED FOR AND ESTABLISH TRAINING PROGRAMS TO ENSURE THAT ALL SITE WORKERS HAVE BEEN TRAINED, AT A MINIMUM, IN EROSION CONTROL, MATERIAL HANDLING AND STORAGE, AND HOUSEKEEPING.
d. PROVIDE COPIES OF THE SWPPP TO ALL PARTIES WHO ARE RESPONSIBLE FOR INSTALLATION, OPERATION OR MAINTENANCE OF ANY BMP'S.
e. MAINTAIN A CURRENT COPY OF THE SWPPP AND PERMIT ON THE SITE AT ALL TIMES AND MADE AVAILABLE UPON REQUEST. IF CONDITIONS ARE NOT FAVORABLE TO MAINTAIN A CURRENT COPY OF THE SWPPP ON SITE, INSTALL A SIGN AT THE ENTRANCE TO THE SITE, PLAINLY VISIBLE TO THE TRAVELING PUBLIC, LISTING INFORMATION PERTINENT TO THE SWPPP'S LOCATION AND THE 24 HOURS A DAY / 7 DAYS PER WEEK PHONE NUMBER OF THE PERSON IN CHARGE OF THE SWPPP.

8.) PRIOR TO ANY MAJOR LAND DISTURBANCE ACTIVITY, A LAND DISTURBANCE PERMIT FROM THE STATE OF MISSOURI DEPARTMENT OF NATURAL RESOURCES WILL BE REQUIRED.

9.) CONSTRUCTION SCHEDULE (TENTATIVE) –
MAR APR MAY JUNE JULY AUG

- SEDIMENT/EROSION CONTROL INSTALL
- SITE GRADING (5 days)
- SEDIMENT/EROSION CONTROL MAINT.
- PAVING/CURBS/SEWERS etc. (1 month)
- PERMANENT VEGETATION (5 days)

10.) **DESCRIPTION OF B.M.P.'s (INTERIM & PERMANENT STABILIZATION PRACTICES/SCHEDULE)**

a. CONTRACTOR SHALL ESTABLISH PERIMETER SILTATION CONTROL PRIOR TO ANY CONSTRUCTION ACTIVITIES. AREAS REQUIRING MINOR CLEARING &/OR GRADING PRIOR TO INSTALLATION OF SILTATION CONTROL SHALL BE COMPLETED IN A TIMELY MANNER AND SILTATION CONTROL ESTABLISHED IMMEDIATELY FOLLOWING

b. TEMPORARY CONSTRUCTION ENTRANCE SHALL BE INSTALLED WHERE THE ACCESS AREAS INTERSECT WITH PUBLIC ACCESS WAYS. DURING MUDDY CONDITIONS, DRIVERS OF VEHICLES WILL BE REQUIRED TO WASH THEIR WHEELS BEFORE ENTERING THE ROADWAY. WHERE SEDIMENT IS TRANSPORTED ONTO PUBLIC ACCESS WAYS, THE ROAD SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROAD BY SHOVELING OR SWEEPING. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.

c. UPON COMMENCEMENT OF INITIAL CLEARING AND GRUBBING OPERATIONS, AS WELL AS FUTURE GRADING OPERATIONS, TOPSOIL MUST BE STRIPPED FROM GRADED AREAS AND STOCKPILED FOR USE IN FINAL GRADING AND/OR EXCESS REMOVAL. THE STOCKPILES WILL BE KEPT ON SITE BUT MUST STAY CLEAR OF ALL CONSTRUCTION ACTIVITY. THE STOCKPILE WILL BE STABILIZED WITH TEMPORARY VEGETATION TO PREVENT SOIL LOSS AND SEDIMENT TRANSPORT FROM THE STOCKPILE ITSELF UNTIL NEEDED.

d. TEMPORARY ROADS SHALL FOLLOW THE CONTOUR OF THE NATURAL TERRAIN TO THE EXTENT POSSIBLE. SLOPES SHALL NOT EXCEED 10 PERCENT SLOPE.

e. CONTRACTOR SHALL CLEAR AND GRUB THOSE AREAS OF THE SITE SCHEDULED FOR CONSTRUCTION. AREAS NOT SCHEDULED FOR IMMEDIATE CONSTRUCTION SHALL NOT BE CLEARED OF ESTABLISHED VEGETATION UNTIL REQUIRED. REMAINDER OF SITE SHALL BE GRADED, AS REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF SILTATION CONTROL THROUGHOUT THE DURATION OF THE PROJECT.

f. STORM DRAINS SHALL BE INSTALLED AS EARLY AS POSSIBLE, PROVIDED THE INSTALLATION DOES NOT CONFLICT WITH OTHER CONSTRUCTION ACTIVITIES. SILT FENCE SHALL BE STAKED AROUND EACH INLET IMMEDIATELY, UPON COMPLETION OF CONSTRUCTION OF EACH INLET. INLETS MAY BE UTILIZED FOR STORMWATER CONTROL DURING CONSTRUCTION WITH THE SILT FENCE AND EROSION CONTROL MEASURES IN PLACE.

g. ALL PROPOSED TURF AREAS, ONCE CONSTRUCTED TO FINAL GRADE SHALL BE SEEDED/ SODDED WITHIN 5 DAYS AFTER FINAL GRADING OF THE SITE WHERE SHOWN ON THE PLAN. SHOULD WEATHER CAUSE DELAYS IN EARTHWORK OPERATIONS, ADDITIONAL SILTATION CONTROL MEASURES MAY BE REQUIRED.

h. ANY DISTURBED AREAS WHICH WILL REMAIN UNWORKED FOR 30 DAYS OR MORE SHALL BE STABILIZED WITH SEEDING AND MULCHING PER SPECIFICATIONS WITHIN 5 DAYS. IF SEASONAL CONDITIONS PROHIBIT SEEDING, MULCHING OR MATTING SHALL BE USED.

i. INSPECTION OF SILTATION CONTROL DEVICES SHALL TAKE PLACE ONCE EVERY SEVEN DAYS AND WITHIN 24 HOURS OF ANY HEAVY RAIN EVENT. ANY SILTATION CONTROL IN NEED OF REPAIR SHALL OCCUR IMMEDIATELY.

j. ALL GRADING OPERATIONS ARE SUBJECT TO THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEERING REPORT IF ONE HAS BEEN PREPARED FOR THIS PROJECT.

k. SEDIMENTATION CONTROLS SHALL ONLY BE REMOVED AFTER THE SITE IS COMPLETELY STABILIZED, VEGETATION IS WELL ESTABLISHED, AND ALL PAVEMENT AREAS ARE INSTALLED.

11.) **PLANNED RESPONSE TO LOSS OF CONTAINED SEDIMENT**

a. B.M.P.'s SHALL BE REPAIRED AND/OR REPLACED IMMEDIATELY, AS REQUIRED, TO STABILIZE SITE AND CONTAIN SEDIMENT LADEN RUNOFF. OFFSITE AREAS SHALL BE REVIEWED FOR EXTENT OF IMPACT FROM B.M.P. FAILURE. PERMIT HOLDER SHALL BE REQUIRED TO PROVIDE DOCUMENTATION OF THE B.M.P. MEASURES INSTALLED AND SCHEDULED MAINTENANCE AND REPAIRS, DOCUMENTATION OF ACTIONS AND MANDATORY REPORTING ARE REQUIRED TO BE PROVIDED TO CITY OF ST. PETERS DEPARTMENT OF PUBLIC WORKS.

b. CONTRACTOR IS RESPONSIBLE FOR INSTALLING ADDITIONAL B.M.P. MEASURES BEYOND THOSE SHOWN IF CONDITIONS DICTATE OR CURRENT MEASURES ARE INSUFFICIENT.

12.) **DESCRIPTION OF PERMANENT B.M.P.'s TO REMAIN AFTER CONSTRUCTION**

a. STORM DRAINS – THE DEVELOPMENT WILL BE SERVED BY A STORMWATER SYSTEM CONSISTING OF REINFORCED CONCRETE PIPE (RCP) AND GRATED INLETS. THE STORM SYSTEM WILL CONVEY STORMWATER TO A CULVERT SEWER SYSTEM WITHIN DARDENNE CREEK WATERSHED. THE STORM DRAINAGE SYSTEM DESIGNATED AS "PRIVATE" SHALL BE OPERATED AND MAINTAINED BY THE OWNER. THE STORM DRAINAGE SYSTEM DESIGNATED AS "PUBLIC" SHALL BE MAINTAINED BY THE CITY OF ST. PETERS UPON DEDICATION OF THE SEWERS TO THE CITY.

b. TURF AREAS – TURF AREAS SHALL BE MAINTAINED TO INSURE SITE AREAS REMAIN STABILIZED UPON COMPLETION OF CONSTRUCTION ACTIVITIES.

c. PAVED AREAS AND WALKWAYS – AREAS SUBJECT TO FOOT AND VEHICLE TRAFFIC SHALL BE PAVED AND KEPT IN GOOD REPAIR FOLLOWING COMPLETION OF CONSTRUCTION ACTIVITIES. MAINTENANCE SHALL BE THE OWNER'S RESPONSIBILITY.

13.) TABLE OF BEST MANAGEMENT PRACTICE QUANTITIES

ITEM	QUANTITY	STATUS
SILT FENCE	-- l.f.	TEMPORARY
INLET PROTECTION	--	TEMPORARY
WASHDOWN AREA	--	TEMPORARY
CONSTRUCTION PARKING	-- s.y.	TEMPORARY

* NOTE: CONTRACTOR RESPONSIBLE FOR VERIFYING ALL QUANTITIES.

14.) ANY LAND CLEARING, CONSTRUCTION, OR DEVELOPMENT INVOLVING THE MOVEMENT OF EARTH SHALL BE IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN, AND THE PERSON ISSUED A LAND DISTURBANCE PERMIT ASSUMES AND ACKNOWLEDGES RESPONSIBILITY FOR COMPLIANCE WITH THE CITY OF ST. PETERS EROSION AND STORM WATER RUNOFF CONTROL AND THE APPROVED STORM WATER POLLUTION PLAN AT THE SITE OF THE PERMITTED ACTIVITY.

15.) **DESCRIPTION OF B.M.P.'s TO PREVENT POTENTIAL POLLUTANTS**

(CONSTRUCTION WASTES, TOXIC OR HAZARDOUS SUBSTANCES, PETROLEUM PRODUCTS, PESTICIDES, HERBICIDES, SITE LITTER, SANITARY WASTES, ETC.)

a. SOLID NON–HAZARDOUS CONSTRUCTION WASTE – DISPOSE OF IN TRASH DUMPSTERS OR APPROVED EQUIVALENT IN A LOCATION APPROVED BY THE OWNER. POTENTIALLY SOLUBLE OR LEACHABLE SOLID WASTE SHALL BE STORED OFF THE GROUND AND IN COVERED LEAK–PROOF CONTAINERS. SOLID WASTE SHALL BE PROPERLY DISPOSED OF OFF–SITE ON A REGULAR BASIS.

b. HAZARDOUS WASTE – HAZARDOUS WASTE SHALL BE SEGREGATED FROM NON–HAZARDOUS CONSTRUCTION SITE DEBRIS. LIQUID OR SEMI–LIQUID HAZARDOUS WASTE SHALL BE STORED IN APPROPRIATE CONTAINERS (CLOSED DRUMS OR SIMILAR) AND SHALL BE KEPT UNDER COVER. GRANULAR, SOLUBLE OR LEACHABLE HAZARDOUS WASTE MATERIALS SHALL BE STORED OFF THE GROUND AND IN COVERED LEAK–PROOF CONTAINERS. THE OWNER SHALL PROPERLY APPROVE ANY HAZARDOUS WASTE STORAGE AREA LOCATIONS.

c. HAZARDOUS WASTE SHALL BE PROPERLY DISPOSED OF OFF–SITE ON A REGULAR BASIS BY A REPUTABLE, LICENSED HAZARDOUS WASTE HAULER.

d. IT IS NOT THE INTENT OF THIS SWPPP TO SUPERSEDE OR REPLACE NORMAL SITE ASSESSMENT AND REMEDIATION PROCEDURES CONCERNING HAZARDOUS MATERIALS. SIGNIFICANT SPILLS AND/OR CONTAMINATION WARRANT AN IMMEDIATE RESPONSE BY TRAINED PROFESSIONALS. SUSPECTED JOB SITE CONTAMINATION SHOULD IMMEDIATELY BE REPORTED TO REGULATORY AUTHORITIES AND PROTECTIVE MEASURES TAKEN.

e. FRESH CONCRETE WASTE AND CONCRETE EQUIPMENT WASHDOWNS SHALL BE CONTAINED AND SHALL BE STORED AWAY FROM DRAINAGE DITCHES, SWALES AND DRAINAGE STRUCTURES. WHERE APPROPRIATE, CONTAINMENT BERMS SHALL BE PLACED AROUND WASTE STORAGE AREAS.

f. ON–SITE FUELING FACILITIES ARE REQUIRED TO ADHERE TO ALL APPLICABLE FEDERAL AND STATE REGULATIONS CONCERNING STORAGE AND DISPENSERS.

g. PROVISIONS SHALL BE MADE SO THAT A SUFFICIENT NUMBER OF TEMPORARY TOILET FACILITIES ARE AVAILABLE TO SERVE THE NUMBER OF WORKERS ON–SITE.

16.) SEDIMENT SHALL BE WASHED FROM ALL VEHICLES AT WASH DOWN STATION PRIOR TO LEAVING THE SITE. NO TRACKING OF MUD ONTO ROADS SHALL BE ALLOWED.

17.) LIST OF EPA ALLOWABLE NON–STORM WATER DISCHARGES (JAN. 2011). THE FOLLOWING NON–STORM WATER DISCHARGES ARE AUTHORIZED BY THE EPA PROVIDED IT HAS BEEN DETERMINED BY THE PERMITTTEE THAT THEY ARE NOT SIGNIFICANT CONTRIBUTORS OF POLLUTANTS TO THE MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4). IMPLEMENTATION OF POLLUTION PREVENTION MEASURES FOR NON–STORM WATER DISCHARGES IS REQUIRED FOR SIGNIFICANT CONTRIBUTORS.

a.) WATER LINE FLUSHING
b.) LANDSCAPE IRRIGATION
c.) DIVERTED STREAM FLOWS
d.) RISING GROUND WATERS
e.) UNCONTAMINATED GROUND WATER INFILTRATION
f.) UNCONTAMINATED PUMPED GROUND WATER
g.) DISCHARGE FROM POTABLE WATER SOURCES
h.) FOUNDATION DRAINS
i.) AIR CONDITIONING CONDENSATION
j.) IRRIGATION WATER, SPRINGS
k.) WATER FROM CRAWL SPACE PUMPS
l.) FOOTING DRAINS
m.) LAWN WATERING
n.) INDIVIDUAL RESIDENT CAR WASHING
o.) FLOW FROM RIPARIAN HABITATS & WETLANDS (AS DEFINED AT 40 CFR 35.2005(20)
p.) DECHLORINATED SWIMMING POOL DISCHARGE
q.) STREET WASH WATER
r.) RESIDENTIAL BUILDING WASH WATERS (WITHOUT DETERGENTS)

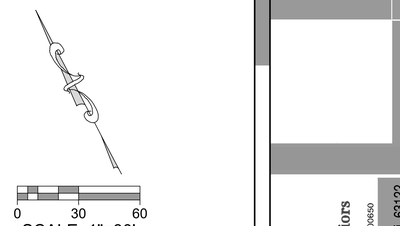
18.) ANTICIPATED DEWATERING METHODS (SUBJECT TO CONTRACTOR'S ANTICIPATED MEANS & METHODS)

a.) CONTRACTOR TO USE CARE WHEN PUMPING WATER FROM CONSTRUCTION EXCAVATIONS AND ATTENTION MUST BE PAID TO THE FINAL DESTINATION OF THIS WATER. SEDIMENT CONTAINED IN THE WATER MUST FIRST BE REMOVED. ONCE IT IS PUMPED OUT OF THE EXCAVATION, THIS WATER MUST THEN BE PREVENTED FROM ERODING SOIL.

b.) AN OIL/WATER SEPARATOR OR OTHER SUITABLE FILTRATION METHOD WILL BE REQUIRED PRIOR TO DISCHARGE IF THE COLLECTED WATER HAS BEEN CONTAMINATED WITH PETROLEUM PRODUCTS, OIL OR GREASE. A LICENSED TRANSPORTER WILL BE REQUIRED TO BOTH CONTAIN AND TO TRANSPORT THE COLLECTED WATER AWAY FROM THE CONSTRUCTION SITE IF IT HAS BEEN CONTAMINATED BY HAZARDOUS OR TOXIC CHEMICALS. IN THE CASE OF CONTAMINATED WATER BEING TRUCKED FROM THE CONSTRUCTION SITE, THE REQUIREMENTS OF FEDERAL, STATE AND LOCAL AGENCIES MUST BE ADHERED TO.

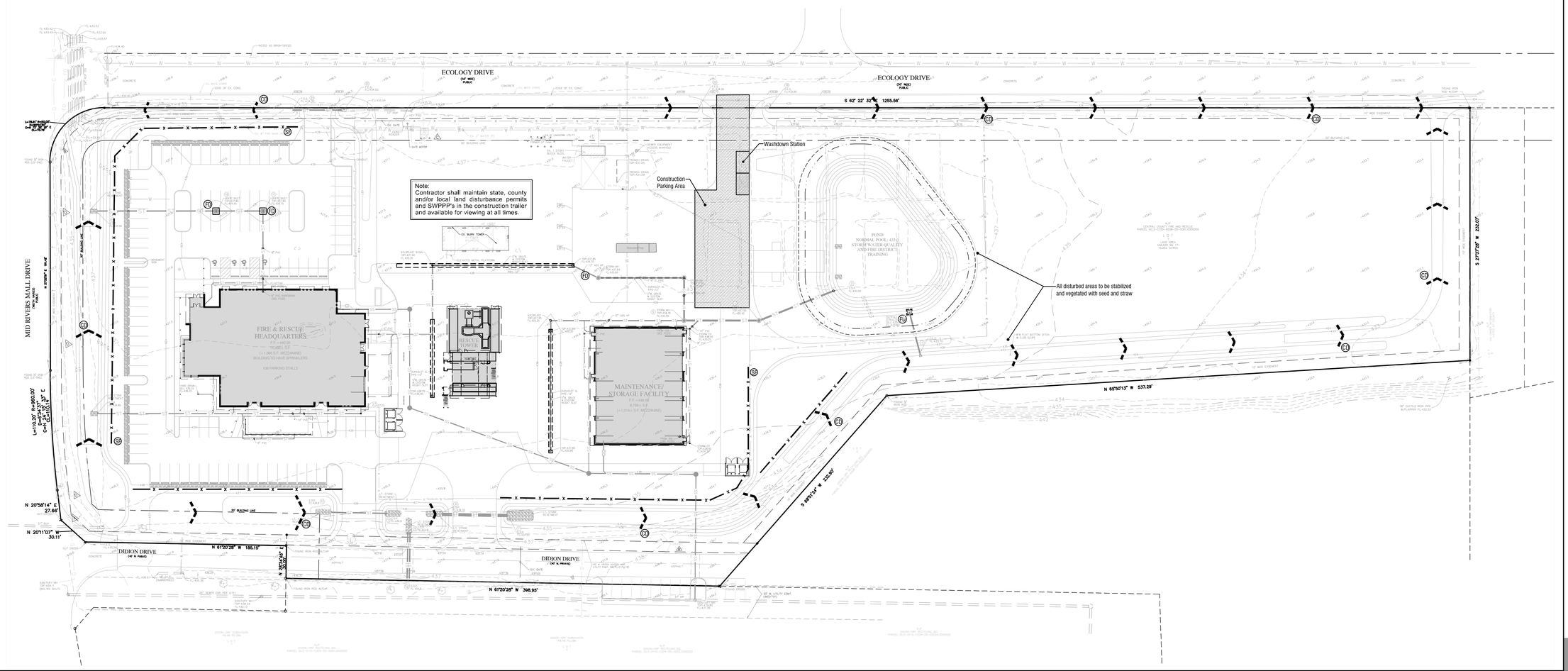
c.) THE DEWATERING METHODS OF EXCAVATED AREAS ANTICIPATED TO BE USED TO REMOVE WATER FROM THE CONSTRUCTION SITE ARE THE FOLLOWING:

1. BUCKET CONNECTED TO SPECIFIC PIECES OF CONSTRUCTION EQUIPMENT TO MECHANICALLY SCOOP THE WATER FROM THE EXCAVATIONS
2. PUMPING OR SIPHONING WATER FROM THE COLLECTION SITES
3. THE USE OF A GRAVITY DRAIN THROUGH CHANNELS



EROSION CONTROL LEGEND

- (SF) — x — x — SILT FENCE (ST. LOUIS CO. STD. DWG. 806–70.00)
- (FD) FABRIC DROP (ST. LOUIS CO. STD. DWG. 806–45.12)
- (CE) CONSTRUCTION PARKING & WASHDOWN AREA (8" TYPE 5 AGGREGATE ST. LOUIS CO. DETAIL 806–46.00 & 806–46.01)
- (CD) CHECK DAM (ST. LOUIS CO. STD. DWG. 806–35.00)



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Proposed:
CENTRAL COUNTY FIRE & RESCUE
ST. PETERS, MO 63376
360/340 ECOLOGY DRIVE

No.	Revision	Date

STORM WATER POLLUTION PREVENTION PLAN

Project No. 2464

Sheet No. C11.0

09/16/2025

CONSTRUCTION ENTRANCE

PHYSICAL DESCRIPTION - A stabilized entrance to a construction site designed to minimize the amount of sediment tracked from the site on vehicles and equipment. Stabilization generally consists of aggregate over geogrid and geosynthetic material. Mud and sediment fall off of tires as they travel along the stabilized entrance; however, additional measures in the form of a washdown area should also be included on site. The stabilized entrance also distributes the axle load of vehicles over a larger area; thereby mitigating the rutting impact vehicles normally have on unpaved areas. See additional information in the "Construction Site Access Requirements" section of this manual.

WHERE BMP IS TO BE INSTALLED - At locations where it is safe for construction vehicles and equipment to access existing streets – preferably at location of future streets or drives.

CONDITIONS FOR EFFECTIVE USE OF BMPs

Drainage: Ditches or pipes, if needed, sized for 15 year, 20 minute storm; HGL 6" below surface of entrance

WHEN BMP IS TO BE INSTALLED - First order of work, along with washdown area, prior to vehicles or equipment accessing unpaved areas.

INSTALLATION / CONSTRUCTION PROCEDURES

- ✓ Grade and compact area of construction entrance.
- ✓ Install culvert under entrance if needed to maintain positive drainage.
- ✓ Place geosynthetic material next to compacted soil, lay geogrid on top of this, and cover with aggregate, forming diversion across entrance if needed to direct runoff away from roadway.
- ✓ See Washdown Station BMP for additional steps.

O&M PROCEDURES:

- ✓ Immediately remove any mud or debris tracked onto paved surfaces.
- ✓ Remove sediment and clods of dirt from construction entrance continuously.
- ✓ Replace rock if necessary to maintain clean surface.
- ✓ Repair settled areas.

SITE CONDITIONS FOR REMOVAL - Remove when vehicles and equipment will no longer access unpaved areas.

TYPICAL DETAIL - 806-46.01

minimum depth of 18 inches. Depth shall be increased to a minimum of 22 inches if fence is placed on a slope of 3:1 or greater. When the post embedment depth is impossible to obtain, the posts shall be adequately secured to prevent overturning of the fence due to sediment loading.

Erect silt fence in a continuous fashion from a single roll of fabric to eliminate gaps in the fence. If a continuous roll of fabric is not available, overlap the fabric from both directions only at stakes or posts. Overlap at least 6 inches.

The Geosynthetic filter fabric and wire mesh (when applicable) shall be no less than 30 inches above ground and are stapled or wired to the upslope side of the post. Staples should be a 17-gauge wire and ½ inch long. Excavate a trench to bury the bottom of the fabric fence in a 2" configuration at least 6 inches below the ground surface. The trench shall be backfilled with native soil and the soil compacted over the geotextile. This helps to prevent gaps from forming near the ground surface. Gaps would make the fencing useless as a sediment barrier.

The height of the fence posts should be 38 inches (22-inch embedment) to 42 inches (18-inch embedment) above the original ground surface. If standard-strength fabric is used with 14-gauge steel wire with a mesh spacing of 6 inches by 6 inches (or a prefabricated polymeric mesh of equivalent strength), space the posts no more than 4 feet apart. If extra-strength fabric is used without wire mesh reinforcement, space the posts no more than 4 feet apart with woven or 6 feet apart with non-woven geosynthetic.

Alternate Construction: Install fence by slicing it into ground with specialized equipment. Install posts at reduced spacing indicated on detail.

LIMITATIONS - Do not install silt fences along areas where rocks or other hard surfaces will prevent you from uniformly anchoring the fence posts and entrenching the filter fabric. Installing fences in such an area greatly reduces their effectiveness and can create runoff channels leading offsite. Silt fences are not suitable for areas where large amounts of concentrated runoff are likely. Fence shall not be used when slope is 1:1 or greater and water flow rates exceed 2 cubic feet per minute. Open, windy areas present a maintenance challenge, too, because high winds can make the filter fabric deteriorate faster. Do not install silt fences across streams, ditches, or waterways (Smolen et al., 1988).

When the pores of the fence fabric become clogged with sediment, pools of water are likely to form on the uphill side of the fence. Setting and design of the silt fence should account for this. Take care to avoid unnecessarily diverting stormwater from these pools, causing further erosion damage.

MAINTENANCE CONSIDERATIONS - Inspect silt fences regularly and frequently, as well as after each rainfall event, to make sure that they are intact and that there are no gaps where the fence meets the ground or tears along the length of the fence. If you find gaps or tears, repair or replace the fabric immediately. Remove accumulated sediments from the fence base when the sediment reaches one-third to one-half the fence height. Remove sediment more frequently if accumulated sediment is creating noticeable strain on the fabric and the fence might fail from a sudden storm event. When you remove the silt fence, remove the accumulated sediment, dress the area disturbed to give it a pleasing appearance and vegetate all bare areas as well.

O&M PROCEDURES

- ✓ Inspect every week and after every storm.
- ✓ Remove sediment buildup deeper than ½ the fence height or 12", whichever is less.
- ✓ Replace torn of clogged fabric; repair loose fabric.

SEEDING REQUIREMENTS

Dates for Seeding

Permanent Seeding	Jan	Feb	March	April	May	June	July	Aug	Sep	Oct	Nov	Dec
Tall Fescue			O	O	O			O	O			
Smooth Brome			O	O	O			O	O			
Fescue & Brome			O	O	O	O		O	O			
Fescue, Rye & Bluegrass	A	A	O	O	O	P	P	O	O	P	P	A
Temporary Seeding	**Jan**	**Feb**	**March**	**April**	**May**	**June**	**July**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**
Rye or Sudan	A	A	O	O	O	O	O	O	O	O	A	A
Oats		A	O	O	O	O	O	O	O			

O = Optimum seeding dates
A = Adaptable seeding dates
P = Permitted seeding dates with reseeding 2 months later - Initially use 50% of seed and 75% of fertilizer. Reseed with additional 75% seed and remaining fertilizer.

Minimum Fertilizer and Seeding Rates

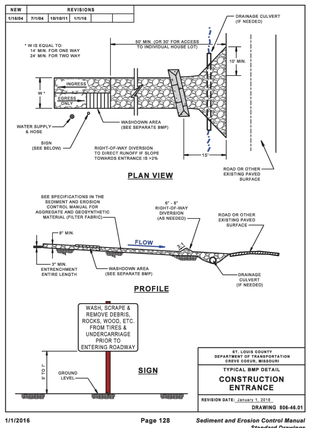
Permanent Seeding*	Pounds per acre	Pounds Per 1000 sq. ft.
Tall Fescue	300	7.0
Smooth Brome	200	4.6
Mixture # 1	250	5.7
Mixture # 2	210	4.8

Mixture # 1 = Tall Fescue @ 150 pounds per acre and Brome @ 100 pounds per acre.
Mixture # 2 = Tall Fescue @ 100 pounds per acre, Perennial Rye grass @ 100 pounds per acre, and Kentucky Blue grass @ 10 pounds per acre.
* = Seeding rate for slopes in excess of 20% (5:1), shall be 10 pounds per 1000 sq. ft.

Temporary Seeding	Pounds per acre	Pounds Per 1000 sq. ft.
Rye or Sudan	150	3.5
Oats	200	2.5

Fertilizer	Permanent Seeding (pounds per acre)	Temporary Seeding (pounds per acre)
Nitrogen	45	30
Phosphate	65	30
Potassium	65	30
Lime - ENM	600	600

ENM = Effective neutralizing material per State evaluation of quarried rock.



- ✓ Repair unstable or broken posts.
- ✓ Stabilize any areas susceptible to undermining.
- ✓ Extend fence or add additional row(s) of fence if necessary to provide adequate protection.

SILTING AND DESIGN CONSIDERATIONS - The material for silt fences should be a pervious sheet of synthetic fabric such as polypropylene, nylon, and polyester or polyethylene yarn. Choose the material based on the minimum synthetic fabric requirements shown in **Table 1** below.

Table 1 - Temporary Silt Fence Property Requirements

Physical Property	Test Method	Units	MARV Geotextile Requirements: Supported Silt Fence [1]	Unsupported Silt Fence: Woven	Unsupported Silt Fence: Non-Woven
				Elongation ≤ 50%	Elongation ≤ 50%
Post Spacing (Maximum)		feet	4	4	6
Height of Wire / Polymer Fence (Minimum)		inches	30	---	---
Grab Strength (Minimum): Machine Direction / Cross Machine Direction	ASTM D 4632	pounds	90 / 90	125 / 100	125 / 100
Permittivity (Minimum)	ASTM D 4491	sec $^{-1}$	0.05	0.05	0.05
Apparent Opening Size (AOS)	ASTM D 4751	Sieve Number	30	30	30
Ultraviolet Stability (Minimum) (retained strength)	ASTM D 4355	70% after 500 h of exposure			

Notes:

MARV Minimum Average Roll Value

[1] Elongation measured in accordance with ASTM D 4632

[2] **Silt Fence Support** - 14-gauge steel wire with a mesh spacing of 6 inches by 6 inches (or a prefabricated polymeric mesh of equivalent strength)

[3] Maximum Average Roll Value

SITE CONDITIONS FOR REMOVAL - After permanent vegetation of slope is established. Remove fence and post, re-grade trench area and vegetate.

TYPICAL DETAIL - 806-70.0

WASHDOWN STATION

PHYSICAL DESCRIPTION - An area located at construction entrances designed to wash sediment from the tires and undercarriage of exiting vehicles and prevent sediment from being tracked onto existing roadways.

WHERE BMP IS TO BE INSTALLED - Across or immediately adjacent to exit paths from unpaved construction sites.

CONDITIONS FOR EFFECTIVE USE OF BMPs

Drainage: Downstream BMPs sized to treat dirty runoff from washdown station

WHEN BMP IS TO BE INSTALLED - First order of work, along with construction entrance, prior to vehicles or equipment accessing unpaved areas.

INSTALLATION/CONSTRUCTION PROCEDURES

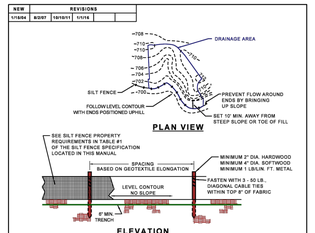
- ✓ Grade and compact area for drainage under washdown pad.
- ✓ Install steel-ribbed plate on frame or other support to allow a 2" drain space.
- ✓ Grade and vegetate downstream BMPs (V-ditch shown on detail).
- ✓ Install water supply and hose.
- ✓ Post sign in advance of station indicating that all exiting vehicles and equipment must use station prior to exiting site.

O&M PROCEDURES:

- ✓ Remove sediment daily.
- ✓ Repair settled areas.
- ✓ Replace rock if necessary to maintain clean surface.

SITE CONDITIONS FOR REMOVAL - Remove when vehicles and equipment will no longer access unpaved areas.

TYPICAL DETAIL - 806-46.00



SODDING

PHYSICAL DESCRIPTION - A ¾ inch to 1-inch thick mat of vigorous turf, free of disease, insects and weeds. Sod prevents raindrops from disrupting the soil structure and causing erosion. Sod slows water runoff and acts as a filter when sediment-laden runoff crosses over the sodded area.

WHERE BMP IS TO BE INSTALLED - Typically installed in areas requiring immediate erosion protection, such as swales or detention ponds and as filter strips, around inlets, and adjacent to curbs. Also installed in areas requiring immediate aesthetic appearance or function such as entrances to new subdivision and off site construction areas.

CONDITIONS FOR EFFECTIVE USE OF BMPs - Type of Flow: Sheet flow and low concentrated flows with velocities less than 5 fps.

WHEN BMP IS TO BE INSTALLED - Immediately after finish grading, installation of area inlets, and installation of underground services and foundations of new homes.

INSTALLATION / CONSTRUCTION PROCEDURES

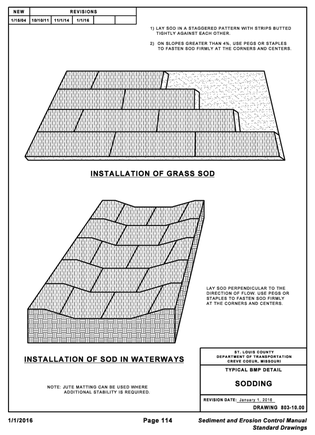
- ✓ Finish grade area and remove all debris larger than ½ inch in diameter and concentrated areas of smaller debris.
- ✓ Soil preparation of area to be sodded shall be determined by tests to determine lime and fertilizer requirements. Soil amendments shall be mixed into top 3 to 6 inches of soil by disking or other means.
- ✓ Level and roll soil lightly to provide an even grade and firm the surface. Soil should not be excessively wet or dry.
- ✓ Lay first row of sod perpendicular to the slope or direction of flow. Butt subsequent rows tight against previous rows with strips staggered in brick-like pattern. Fill minor gaps with good soil and roll entire surface to ensure contact.
- ✓ Stake, staple and / or net corners and centers of sod strips as required.
- ✓ Water immediately after installation enough to soak 4 inches into soil without causing runoff.
- ✓ For additional information see Section 803 of St. Louis County's Standard Specification for Road and Bridge Construction.
- ✓ Type of sod shall be as specified in the contract or on the approved plans.

O&M PROCEDURES:

- ✓ Water sod daily for 3 weeks - enough to soak 4-inches into soil without causing runoff.
- ✓ Reposition areas of sod that has moved along the slope.
- ✓ Remove sediment accumulations - replace sod if necessary.
- ✓ Repair any eroded areas, replace sod, and stabilize as needed.
- ✓ Do not mow until 3-inches of new growth occur. During the first 4 months, mow no more than ⅓ the grass height.

SITE CONDITIONS FOR REMOVAL - Not applicable.

TYPICAL DETAIL - 803-10.00



INLET PROTECTION - FABRIC DROP AND DROP IN FILTER

PHYSICAL DESCRIPTION - A woven fabric barrier braced around an area inlet or drop in type filter designed to prevent sediment from entering the storm sewer. Shallow temporary ponding during and after rainfall should be expected. Use an alternate method if flooding of driving lanes, adjacent property, etc. is possible.

WHERE BMP IS TO BE INSTALLED - At inlets designed to drain a small gently sloping area with maximum grade of 5%. Overflow capacity is limited on standard area inlets.

CONDITIONS FOR EFFECTIVE USE OF BMPs

Type of Flow: Shallow sheet flow.
Contributing Area: Maximum of 2 c.f.s flowing to inlet.

WHEN BMP IS TO BE INSTALLED - Immediately after placement of inlet and before construction starts on existing inlets.

INSTALLATION / CONSTRUCTION PROCEDURES

- ✓ Backfill, compact and uniformly grade area around inlet.
- ✓ Construct downstream berm, if required. Rock bags or sand bags may be used to construct berm.
- ✓ Drive posts or wood frame close to inlet sill so overflow will fall directly on the structure and not on unprotected soil.
- ✓ Dig trench around inlet for fabric to be buried.
- ✓ Cut required length of fabric from one roll to eliminate joints. Fasten fabric tightly around posts / frame to enhance stability.
- ✓ Backfill and compact trench.
- ✓ Install drop in type filter per manufacturer specifications.

O&M PROCEDURES

- ✓ Inspect every week and after every storm.
- ✓ Remove trash accumulation and sediment once it reaches depth of 6" at inlet.
- ✓ Replace loose, torn or clogged fabric.
- ✓ Repair any erosion or settlement of temporary berm downstream of inlet.
- ✓ Maintain drop in type filter per manufacturer specifications.

SITE CONDITIONS FOR REMOVAL - Remove after contributing drainage areas have been adequately stabilized. Restore area to grade and vegetate.

TYPICAL DETAIL - 806-46.12 (Single Unit)
806-46.13 (Double Unit)

CHECK DAM

PHYSICAL DESCRIPTION - A small dam built within a drainage swale or temporary diversion channel designed to pond water and cause sediment to settle out. Dams can be constructed of rock, sand bags, filter rolls / wattles, triangular dikes, or gravel bags. Silt fence shall not be used to construct check dams.

WHERE BMP IS TO BE INSTALLED - At intervals along drainage swales or channels. The top of the downstream check dam should be level with the base of the upstream check dam.

CONDITIONS FOR EFFECTIVE USE OF BMPs

Type of Flow: Moderate concentrated flow
Contributing Area: Maximum of 2 acres
Channel Slope: Maximum of 2%

WHEN BMP IS TO BE INSTALLED - Prior to disturbance of natural vegetation in contributing drainage area; immediately after construction of drainage way.

For additional information see Section 806.30 of St. Louis County's Standard Specification for Road and Bridge Construction.

INSTALLATION / CONSTRUCTION PROCEDURES

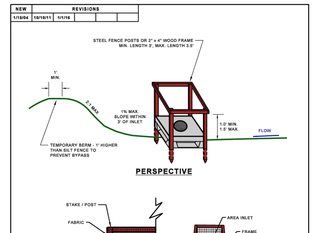
- ✓ Grade drainage way and compact area of check dam.
- ✓ Place rock, sand bags, filter rolls / wattles or gravel bags to required configuration perpendicular to flow.

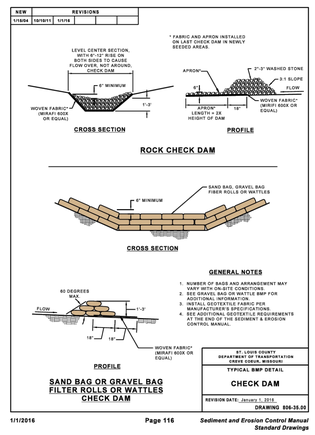
O&M PROCEDURES

- ✓ Inspect every week and after every storm.
- ✓ Remove trash and leaf accumulation.
- ✓ Remove sediment buildup once it reaches ½ depth of check dam or 12" depth, whichever is less.
- ✓ Restore dam structure to original configuration to protect banks.
- ✓ Replace rock on upstream face of dam if ponding does not drain in reasonable timeframe.

SITE CONDITIONS FOR REMOVAL - Remove after contributing drainage areas have been adequately stabilized and vegetation is adequately established in drainage way. Re-grade and vegetate area of check dam.

TYPICAL DETAIL - 806-35.00





SILT FENCE

PHYSICAL DESCRIPTION - Silt fences are used as temporary perimeter controls, appropriate to the BMP, at sites where construction activities will disturb the soil. They can also be used on the interior of the site. A silt fence consists of a length of filter fabric stretched between anchoring posts spaced at regular intervals along the site at low and down slope areas. The filter fabric should be entrenched in the ground. When installed correctly and inspected frequently, silt fence can be an effective barrier to silt leaving the site in storm water runoff.

WHERE BMP IS TO BE INSTALLED - Silt fences apply to construction sites with relatively small drainage areas. They are appropriate in areas where runoff will occur as low-level flow, not exceeding 0.5 c.f.s. The drainage area for silt fences should not exceed 0.25 acre per 100-foot fence length (100 square feet per foot of fence). The slope length above the fence should not exceed 100 feet (NAHB, 1995). The fence should be designed to withstand the runoff from a 10-year peak storm event.

CONDITIONS FOR EFFECTIVE USE OF BMPs - Spacing of parallel lengths of silt fence along slopes is relative to slope steepness as follows:

Type of Flow: Sheet flow only.
Contributing Slope Length: 30-foot maximum for 3:1 slopes.
50 foot maximum for slopes between 3:1 and 10:1.
100 foot maximum for slopes under 10%.

For additional information see Section 806.70 of St. Louis County's Standard Specification for Road and Bridge Construction.

WHEN BMP IS TO BE INSTALLED - Prior to disturbance of natural vegetation and at intervals during construction of fill slopes. Install on the perimeter of the site (where storm water exits the site) prior to disturbance of natural vegetation, around material stockpiles and interior to the site along slopes, at the base of slopes and at intervals during construction of slopes.

INSTALLATION / CONSTRUCTION PROCEDURES

- ✓ Drive post for fence line.
- ✓ Dig trench to required dimensions in front of posts for fabric burial.
- ✓ Attach wire mesh to posts.
- ✓ Attach fabric to posts, allowing required length below ground level to run fabric along bottom of trench
- ✓ Backfill and compact soil in trench to protect and anchor fabric.

If a standard-strength fabric is used, it can be reinforced with wire mesh behind the filter fabric. This increases the effective life of the fence. The maximum life expectancy for synthetic fabric silt fences is about 6 months, depending on the amount of rainfall and runoff.

The stakes used to anchor the filter fabric should be wood or metal. Wooden stakes should have minimum dimensions of 2 by 2 inches if a hardwood like oak is used. Stakes from soft woods like No. 2 Southern Pine, should have minimum dimensions of 4 by 4 inches. When using steel (standard U, T, L or C shape sections) posts in place of wooden stakes, they should weigh no less than 1.0 lb/linear foot. If metal posts are used, attachment points are needed for fastening the filter fabric with wire ties. Posts should be least 5 feet long and driven or placed at a slight upstream angle into the ground to a

SEEDING

PHYSICAL DESCRIPTION - Establishment of vegetation by spreading grass seed designed to protect exposed soil from erosion by eliminating direct impact of precipitation and slowing overland flow rates. Once established, the vegetative cover will also filter pollutants from the runoff. Use only perennial vegetation for final stabilization.

WHERE BMP IS TO BE INSTALLED - To exposed soil after a phase of rough or finish grading has been completed, or areas where no activity will occur for 30 days.

CONDITIONS FOR EFFECTIVE USE OF BMPs

Type of Flow: Sheet flow
Contributing Slope Length: 30 foot maximum for 3:1 slopes
50 foot maximum for slope between 3:1 and 10:1
100 foot maximum for slopes under 10%
Minimum Rates: See attached chart(s)
Acceptable Dates: See attached chart

WHEN BMP IS TO BE INSTALLED - Immediately after rough or finished grading is completed.

INSTALLATION / CONSTRUCTION PROCEDURES

- ✓ Install upstream BMP's to protect area to be seeded.
- ✓ Rough grade area and remove all debris larger than 1-inch in diameter and concentrated areas of smaller debris.
- ✓ Install stabilization grids, if needed.
- ✓ Mix soil amendments (lime, fertilizer, etc.) into top 3 to 6 inches of soil as needed.
- ✓ Plant seed ½ to ¾ inch deep.
- ✓ Roll lightly to firm surface.
- ✓ Cover seeded area with mulch unless seeding completed during optimum spring and summer dates.
- ✓ Install additional stabilization (netting, bonded fiber matrix, etc.) as required.
- ✓ Water immediately - enough to soak 4 inches into soil without causing runoff.
- ✓ If contract / permit allows seeding to be used for final stabilization, only perennial vegetation seeds shall be used.
- ✓ For additional information see Sections 805 and 806.50 of St. Louis County's Standard Specification for Road and Bridge Construction.

O&M PROCEDURES:

- ✓ Inspect every week and after every storm
- ✓ Protect area from vehicular and foot traffic
- ✓ Reseed areas that have not sprouted within 21 days of planting.
- ✓ Repair damaged or eroded areas and reseed and stabilize as needed
- ✓ Do not mow until 4 inches of growth occurs
- ✓ During the first 4 months, mow no more than ⅓ the grass height
- ✓ Re-fertilize during 2nd growing season

SITE CONDITIONS FOR REMOVAL - Does not require removal, but temporary seeding can be removed immediately prior to work returning to an area

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Proposed:
CENTRAL COUNTY FIRE & RESCUE
ST. PETERS, MO 63376
3600/40 ECOLOGY DRIVE

STORM WATER POLLUTION PREVENTION PLAN DETAILS

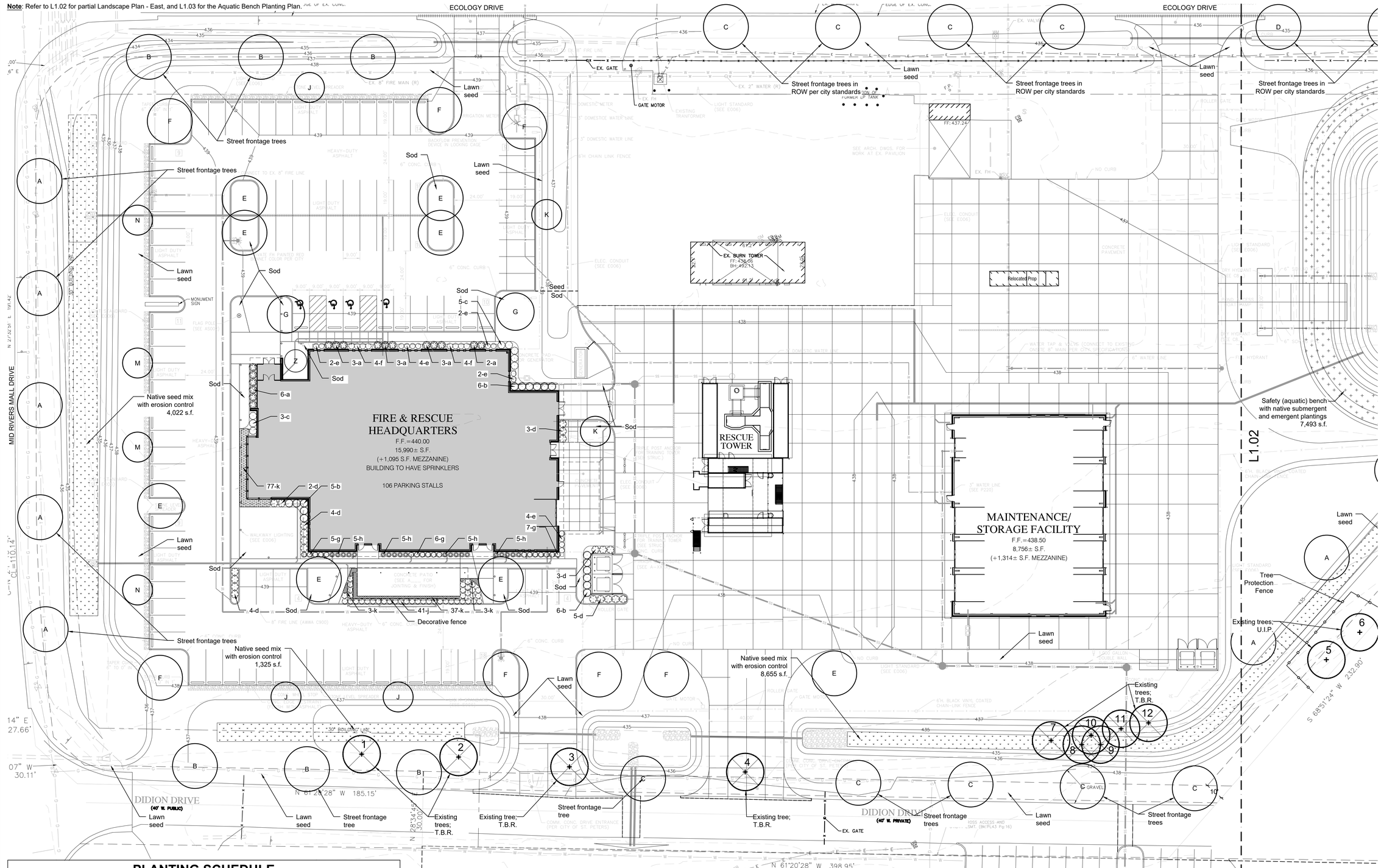
No.	Date	Revision

Project No. 2464

Sheet No. C11.1

09/16/2025

Note: Refer to L1.02 for partial Landscape Plan - East, and L1.03 for the Aquatic Bench Planting Plan.



PLANTING SCHEDULE

ID	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS	POINT VALUE
CANOPY-SHADE TREE						
A	10	*Platanus x acerifolia*	London Plane Tree	1.5" caliper	B & B	400
B	12	*Quercus bicolor*	Swamp White Oak	1.5" caliper	B & B	400
C	11	*Quercus macrocarpa*	Bur Oak	1.5" caliper	B & B	400
D	12	*Taxodium distichum*	Baldcypress	1.5" caliper	B & B	300
E	8	*Acer saccharum*	Sugar Maple	1.5" caliper	B & B	400
F	7	*Liriodendron tulipifera*	Tulip Tree	1.5" caliper	B & B	400
G	2	*Zelkova serrata* 'Green Vase'	Green Vase Japanese Zelkova	1.5" caliper	B & B	300
UNDERSTORY-ORNAMENTAL TREE						
J	3	*Amelanchier arborea*	Serviceberry	1.5" caliper	B & B	200
K	2	*Malus* 'Spring Snow'	Spring Snow Crabapple	1.5" caliper	B & B	200
M	2	*Magnolia x loebneri* 'Merrill'	Merrill Magnolia	1.5" caliper	B & B	200
N	2	*Carpinus caroliniana*	American Hornbeam	1.5" caliper	B & B	200
EVERGREEN TREE						
Z	1	*Magnolia grandiflora* 'Southern Charm'	Teddy Bear Southern Magnolia	6' tall	B & B	200

Landscape Plan - West
SCALE 1"=20'
0 20 40 80

PLANTING SCHEDULE

ID	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS	POINT VALUE
SHRUBS-ORNAMENTAL GRASSES-PERENNIALS-ANNUALS-GROUNDCOVER						
a	17	*Ilex glabra* 'Compacta'	Compact Inkberry	18"	48" o.c.	40
b	17	*Buxus microphylla* 'Bulthouse'	Sprinter Boxwood	18"	48" o.c.	30
c	8	*Hydrangea quercifolia* 'Munchkin'	Munchkin Oakleaf Hydrangea	18"	48" o.c.	20
d	21	*Syringa* x 'SMSJBP7'	Bloomerang Dark Purple Lilac	18"	48" o.c.	40
e	14	*Itea virginica* 'Sprich'	Little Henry Virginia Sweetspire	18"	36" o.c.	20
f	8	*Deutzia gracilis* 'Nikko'	Slender Deutzia	18"	36" o.c.	20
g	18	*Spiraea* x 'SMNSJSA'	Double Play Dolly Spirea	18"	36" o.c.	10
h	20	*Weigela florida* 'FLORACLAR'	Bubbly Wine Dwarf Weigela	18"	36" o.c.	10
j	41	*Buxus sempervirens* 'MonAlex'	Petite Pillar Dwarf Boxwood (mini)	18"	36" o.c.	5
k	120	*Iberis sempervirens*	Candytuft	2" cell plug	18" o.c.	2

Landscape Calculations

Symbol	Type	Size	Area	Quantity	Area	Landscape Credit
A	London Plane Tree	1.5"	EA	5	400	2000
B	Swamp White Oak Tree	1.5"	EA	7	400	2800
C	Bur Oak Tree	1.5"	EA	11	400	4400
D	Bald Cypress Tree	1.5"	EA	12	300	3600
E	Sugar Maple Tree	1.5"	EA	8	400	3200
F	Tulip Tree	1.5"	EA	7	400	2800
G	Zelkova Tree	1.5"	EA	2	300	600
J	Downy Serviceberry Tree	1.5"	EA	3	200	600
K	Spring Snow Crabapple Tree	1.5"	EA	2	200	400
M	Merrill Magnolia Tree	1.5"	EA	2	200	400
N	American Hornbeam Tree	1.5"	EA	2	200	400
Z	Teddy Bear Southern Magnolia Tree	6"	EA	1	200	200
a	Compact Inkberry	18"	EA	17	40	680
b	Sprinter Boxwood	18"	EA	17	30	510
c	Munchkin Oakleaf Hydrangea	18"	EA	8	20	160
d	Bloomerang Dark Purple Lilac	18"	EA	21	40	840
e	Little Henry Virginia Sweetspire	18"	EA	14	20	280
f	Slender Deutzia	18"	EA	8	20	160
g	Double Play Dolly Spirea	18"	EA	18	10	180
h	Bubbly Wine Weigela	18"	EA	20	10	200
j	Boxwood (miniature)	18"	EA	41	5	205
k	Candytuft	2"c.p.	EA	120	2	240
	Subtotal					24855

Landscape Calculations

Symbol	Type	Size	Area	Quantity	Area	Landscape Credit
	Aquatc Bench Plants	DCP	7,493 SF	7493	1	7493
	Native Seed with erosion control		14.002 SF	14,002	1	14002
	Subtotal					21495
	Total					46350

Development Area: 446,529 s.f.
Required Landscape Credits: 10% of Development Area
446,529 s.f. x 10% = **44,653**

Tree Condition Rating:

Excellent	=	4
Good	=	3
Fair	=	2
Poor	=	1
Dead	=	0

EXISTING TREE INVENTORY

ID	TREE SPECIES	DBH	CONDITION RATING	TO BE REMOVED
1	Pear	5	2	X
2	Pear	9	2	X
3	Pear	10	2	X
4	Pear	5	2	X
5	Cottonwood	7	2	
6	Cottonwood	3	2	

EXISTING TREE INVENTORY

ID	TREE SPECIES	DBH	CONDITION RATING	TO BE REMOVED
7	Cottonwood	3	2	X
8	Cottonwood	4	2	X
9	Cottonwood	3	2	X
10	Cottonwood	2	2	X
11	Cottonwood	4	2	X
12	Cottonwood	4	2	X

CENTRAL COUNTY FIRE & RESCUE

360 Ecology Drive
Saint Peters, Missouri 63376

Consultants:

Revisions:

Date	Description	No.

Drawn: KP
Checked: RS

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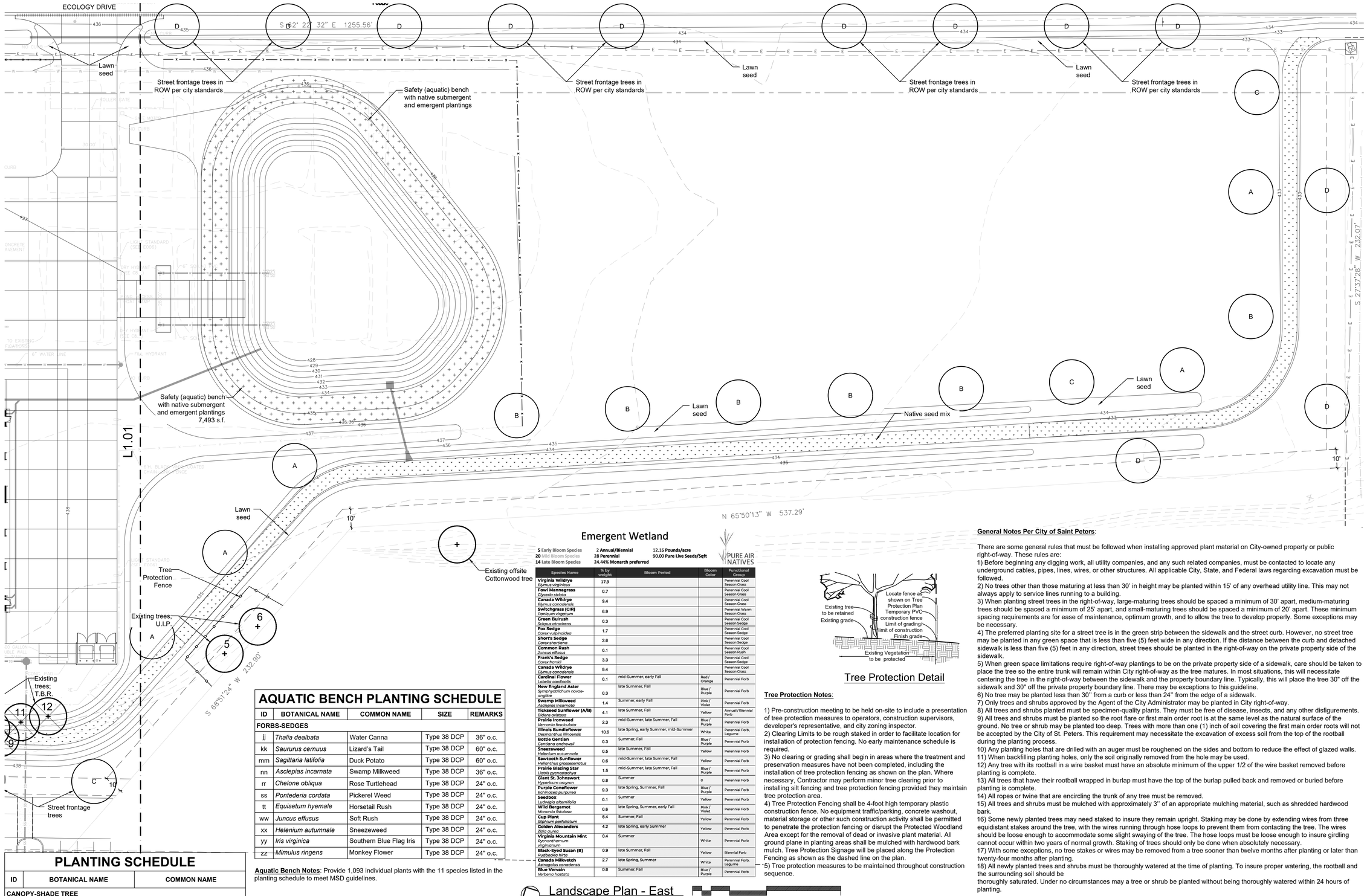
Loomis Associates Inc.
Missouri State Certificate of Authority #: LAC #000019

Sheet Title: Landscape Plan - West
Sheet No: L1.01
Date: 9/15/25
Job #: 584.077



Landscape Plan - East

SCALE 1"=20'

0 20 40 80

AQUATIC BENCH PLANTING SCHEDULE

ID	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
FORBS-SEDGES				
jj	*Thalia dealbata*	Water Canna	Type 38 DCP	36" o.c.
kk	*Saururus cernuus*	Lizard's Tail	Type 38 DCP	60" o.c.
mm	*Sagittaria latifolia*	Duck Potato	Type 38 DCP	60" o.c.
nn	*Asclepias incarnata*	Swamp Milkweed	Type 38 DCP	36" o.c.
rr	*Chelone obliqua*	Rose Turtlehead	Type 38 DCP	24" o.c.
ss	*Pontederia cordata*	Pickerel Weed	Type 38 DCP	24" o.c.
tt	*Equisetum hyemale*	Horsetail Rush	Type 38 DCP	24" o.c.
ww	*Juncus effusus*	Soft Rush	Type 38 DCP	24" o.c.
xx	*Helenium autumnale*	Sneezeweed	Type 38 DCP	24" o.c.
yy	*Iris virginica*	Southern Blue Flag Iris	Type 38 DCP	24" o.c.
zz	*Mimulus ringens*	Monkey Flower	Type 38 DCP	24" o.c.

Aquatic Bench Notes: Provide 1,093 individual plants with the 11 species listed in the planting schedule to meet MSD guidelines.

PLANTING SCHEDULE

ID	BOTANICAL NAME	COMMON NAME
CANOPY-SHADE TREE		
A	*Platanus* x *acerifolia*	London Plane Tree
B	*Quercus bicolor*	Swamp White Oak
C	*Quercus macrocarpa*	Bur Oak
D	*Taxodium distichum*	Baldcypress
E	*Acer saccharum*	Sugar Maple
F	*Liriodendron tulipifera*	Tulip Tree
G	*Zelkova serrata* 'Green Vase'	Green Vase Japanese Zelkova
UNDERSTORY-ORNAMENTAL TREE		
J	*Amelanchier arborea*	Serviceberry
K	*Malus* 'Spring Snow'	Spring Snow Crabapple
M	*Magnolia* x *loebneri* 'Merrill'	Merrill Magnolia
N	*Carpinus caroliniana*	American Hornbeam
EVERGREEN TREE		
Z	*Magnolia grandiflora* 'Southern Charm'	Teddy Bear Southern Magnolia

PLANTING SCHEDULE

ID	BOTANICAL NAME	COMMON NAME
SHRUBS-PERENNIALS-ANNUALS-GROUNDCOVER		
a	*Ilex glabra* 'Compacta'	Compact Inkberry
b	*Buxus microphylla* 'Bulthouse'	Sprinter Boxwood
c	*Hydrangea quercifolia* 'Munchkin'	Munchkin Oakleaf Hydrangea
d	*Syringa* x 'SMSJBP7'	Bloomerang Dark Purple Lilac
e	*Itea virginica* 'Sprich'	Little Henry Virginia Sweetspire
f	*Deutzia gracilis* 'Nikko'	Slender Deutzia
g	*Spiraea* x 'SMNSJSA'	Double Play Dolly Spirea
h	*Weigela florida* 'FLORACLAR'	Bubbly Wine Dwarf Weigela
j	*Buxus*	Boxwood
k	*Iberis sempervirens*	Candytuft

Emergent Wetland

PURE AIR NATIVES

5 Early Bloom Species **2** Annual/Biennial **12.16 Pounds/acre**
20 Mid Bloom Species **28 Perennial** **90.00 Pure Live Seeds/Sqft**
14 Late Bloom Species **24.44% Monarch preferred**

Species Name	% by weight	Bloom Period	Bloom Color	Functional Group
Virginia Wildrye *Elymus virginicus*	17.9			Perennial Cool Season Grass
Fowl Mannagrass *Glyceria striata*	0.7			Perennial Cool Season Grass
Canada Wildrye *Elymus canadensis*	9.4			Perennial Cool Season Grass
Switchgrass (CIR) *Panicum virgatum*	6.9			Perennial Warm Season Grass
Green Bulrush *Scirpus atrovirens*	0.3			Perennial Cool Season Sedge
Fox Sedge *Carex vulpinoidea*	1.7			Perennial Cool Season Sedge
Short's Sedge *Carex shortiana*	2.6			Perennial Cool Season Sedge
Common Rush *Juncus effusus*	0.1			Perennial Cool Season Rush
Frank's Sedge *Carex frankii*	3.3			Perennial Cool Season Sedge
Canada Wildrye *Elymus canadensis*	9.4			Perennial Cool Season Grass
Cardinal Flower *Lobelia cardinalis*	0.1	mid-Summer, early Fall	Red / Orange	Perennial Forb
New England Aster *Symphyotrichum novae-angliae*	0.3	late Summer, Fall	Blue / Purple	Perennial Forb
Swamp Milkweed *Asclepias incarnata*	1.4	Summer, early Fall	Pink / Violet	Perennial Forb
Tickseed Sunflower (A/B) *Bidens aristosa*	4.1	late Summer, Fall	Yellow	Annual / Biennial Forb
Prairie Ironweed *Vernonia fasciculata*	2.3	mid-Summer, late Summer, Fall	Blue / Purple	Perennial Forb
Illinois Bundleflower *Desmanthus illinoensis*	10.6	late Spring, early Summer, mid-Summer	White	Perennial Forb, Legume
Bottle Gentian *Gentiana andrewsii*	0.3	Summer, Fall	Blue / Purple	Perennial Forb
Sneezeweed *Helenium autumnale*	0.5	late Summer, Fall	Yellow	Perennial Forb
Sawtooth Sunflower *Helianthus grosseserratus*	0.6	mid-Summer, late Summer, Fall	Yellow	Perennial Forb
Prairie Blazing Star *Liatris pycnostachya*	1.5	mid-Summer, late Summer, Fall	Blue / Purple	Perennial Forb
Giant St. Johnswort *Hypericum ascyron*	0.8	Summer	0	Perennial Forb
Purple Coneflower *Echinacea purpurea*	9.3	late Spring, Summer, Fall	Blue / Purple	Perennial Forb
Seedbox *Ludwigia alternifolia*	0.1	Summer	Yellow	Perennial Forb
Wild Bergamot *Monarda fistulosa*	0.6	late Spring, Summer, early Fall	Pink / Violet	Perennial Forb
Cup Plant *Silphium perfoliatum*	6.4	Summer, Fall	Yellow	Perennial Forb
Golden Alexanders *Zizia aurea*	4.2	late Spring, early Summer	Yellow	Perennial Forb
Virginia Mountain Mint *Pycnanthemum virginianum*	0.4	Summer	White	Perennial Forb
Black-Eyed Susan (B) *Rudbeckia hirta*	0.9	late Summer, Fall	Yellow	Biennial Forb
Canada Milkvetch *Astragalus canadensis*	2.7	late Spring, Summer	White	Perennial Forb, Legume
Blue Vervain *Verbena hastata*	0.6	Summer, Fall	Blue / Purple	Perennial Forb

Typical Perennial Planting

Scarify root ball of all container stock

Typical Shrub Planting

Typical Canopy Tree Planting

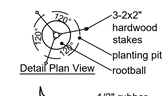
Tree Protection Detail

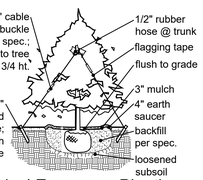
Tree Protection Notes:

1) Pre-construction meeting to be held on-site to include a presentation of tree protection measures to operators, construction supervisors, developer's representative, and city zoning inspector.
2) Clearing Limits to be rough staked in order to facilitate location for installation of protection fencing. No early maintenance schedule is required.
3) No clearing or grading shall begin in areas where the treatment and preservation measures have not been completed, including the installation of tree protection fencing as shown on the plan. Where necessary, Contractor may perform minor tree clearing prior to installing silt fencing and tree protection fencing provided they maintain tree protection area.
4) Tree Protection Fencing shall be 4-foot high temporary plastic construction fence. No equipment traffic/parking, concrete washout, material storage or other such construction activity shall be permitted to penetrate the protection fencing or disrupt the Protected Woodland Area except for the removal of dead or invasive plant material. All ground plane in planting areas shall be mulched with hardwood bark mulch. Tree Protection Signage will be placed along the Protection Fencing as shown as the dashed line on the plan.
5) Tree protection measures to be maintained throughout construction sequence.

General Notes Per City of Saint Peters:

There are some general rules that must be followed when installing approved plant material on City-owned property or public right-of-way. These rules are:
1) Before beginning any digging work, all utility companies, and any such related companies, must be contacted to locate any underground cables, pipes, lines, wires, or other structures. All applicable City, State, and Federal laws regarding excavation must be followed.
2) No trees other than those maturing at less than 30' in height may be planted within 15' of any overhead utility line. This may not always apply to service lines running to a building.
3) When planting street trees in the right-of-way, large-maturing trees should be spaced a minimum of 30' apart, medium-maturing trees should be spaced a minimum of 25' apart, and small-maturing trees should be spaced a minimum of 20' apart. These minimum spacing requirements are for ease of maintenance, optimum growth, and to allow the tree to develop properly. Some exceptions may be necessary.
4) The preferred planting site for a street tree is in the green strip between the sidewalk and the street curb. However, no street tree may be planted in any green space that is less than five (5) feet wide in any direction. If the distance between the curb and detached sidewalk is less than five (5) feet in any direction, street trees should be planted in the right-of-way on the private property side of the sidewalk.
5) When green space limitations require right-of-way plantings to be on the private property side of a sidewalk, care should be taken to place the tree so the entire trunk will remain within City right-of-way as the tree matures. In most situations, this will necessitate centering the tree in the right-of-way between the sidewalk and the property boundary line. Typically, this will place the tree 30" off the sidewalk and 30" off the private property boundary line. There may be exceptions to this guideline.
6) No tree may be planted less than 30'' from a curb or less than 24'' from the edge of a sidewalk.
7) Only trees and shrubs approved by the Agent of the City Administrator may be planted in City right-of-way.
8) All trees and shrubs planted must be specimen-quality plants. They must be free of disease, insects, and any other disfigurements.
9) All trees and shrubs must be planted so the root flare or first main order root is at the same level as the natural surface of the ground. No tree or shrub may be planted too deep. Trees with more than one (1) inch of soil covering the first main order roots will not be accepted by the City of St. Peters. This requirement may necessitate the excavation of excess soil from the top of the rootball during the planting process.
10) Any planting holes that are drilled with an auger must be roughened on the sides and bottom to reduce the effect of glazed walls.
11) When backfilling planting holes, only the soil originally removed from the hole may be used.
12) Any tree with its rootball in a wire basket must have an absolute minimum of the upper 1/2 of the wire basket removed before planting is complete.
13) All trees that have their rootball wrapped in burlap must have the top of the burlap pulled back and removed or buried before planting is complete.
14) All ropes or twine that are encircling the trunk of any tree must be removed.
15) All trees and shrubs must be mulched with approximately 3'' of an appropriate mulching material, such as shredded hardwood bark.
16) Some newly planted trees may need staked to insure they remain upright. Staking may be done by extending wires from three equidistant stakes around the tree, with the wires running through hose loops to prevent them from contacting the tree. The wires should be loose enough to accommodate some slight swaying of the tree. The hose loops must be loose enough to insure girdling cannot occur within two years of normal growth. Staking of trees should only be done when absolutely necessary.
17) With some exceptions, no tree stakes or wires may be removed from a tree sooner than twelve months after planting or later than twenty-four months after planting.
18) All newly planted trees and shrubs must be thoroughly watered at the time of planting. To insure proper watering, the rootball and the surrounding soil should be
thoroughly saturated. Under no circumstances may a tree or shrub be planted without being thoroughly watered within 24 hours of planting.





Typical Evergreen Planting

Landscape Notes:

1) Refer to L1.01 for partial Landscape Plan - West.

2) Refer to specifications for overall material and planting information.

3) All existing volunteer trees and vegetation within the property to be removed.

4) Bed edges to be spade cut.

5) All mulch to be double ground bark mulch at 3" depth.

6) Lawn shall be turf-type Tall Fescue Grass; All 3:1 or steeper slopes shall be lawn seed with erosion control blanket.

7) Native seed mix shall be Emergent Wetland mix by Pure Air Natives (or approved equal). Refer to Emergent Wetland plant list.

8) Topsoil in all disturbed lawn areas at 6" depth. Topsoil in all native seed areas and shrub beds at 8" depth.

Consultants:

CENTRAL COUNTY FIRE & RESCUE

360 Ecology Drive
Saint Peters, Missouri 63376

Revisions:

Date	Description	No.

Drawn: KP
Checked: RS

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Missouri State Certificate of Authority #: LAC #000019

Sheet Title: Landscape Plan - East
Sheet No: L1.02
Date: 9/15/25
Job #: 584.077

SECTION 32 93 00 LANDSCAPE WORK

PART 1 - GENERAL

A. RELATED DOCUMENTS

1. Related Sections include the following:
   a. Division 2 Section 31 20 00, "Earthwork" for excavation, filling, and rough grading required to establish elevations shown on drawings.
   b. Section 32 84 00, Design-Build Underground Irrigation

B. SUMMARY

1. Extent of landscape development work is shown on drawings and in schedules. In case of quantity discrepancy between drawings and schedules, the requirements of the plan shall prevail. Landscape work shall include the supplying of all materials and completion of all work items associated with the installation, warranty, and maintenance of all trees, shrubs, groundcover, vines, perennials, annuals and lawns shown on the plans and specified herein. Further landscape work shall include all ancillary materials necessary to complete the work as specified including but not limited to topsoil, mulch, filter fabrics, fertilizers, stakes, guys, etc.
2. Finish Grade Elevations: Owner will provide finish grade elevations to within .01' of specified grade.

C. SUBMITTALS

1. Samples: Representative samples of the following materials shall be provided to the Landscape Architect from the supply source being used:
   a. Plant Material: Samples or photos may be requested in lieu of inspection.
   b. Mulch: 5 lb. sample.
   c. Staking and guying material.
2. Test Reports: Submit to the Landscape Architect 2 copies each of certified test analysis report from a soil testing laboratory. Provide a chemical analysis, including the following:
   a. pH and buffer pH
   b. Percentage of organic content by oven-dried weight
   c. Nutrient levels by parts per million, including phosphorus, potassium, magnesium, manganese, iron, zinc, and calcium. Nutrient test shall include the testing laboratory recommendations for supplemental additions to the soil based on the requirements of horticulture plants.
   d. Soluble salt by electrical conductivity of a 1:2 soil: water, sample measured in milliohmo per cm.
   e. Cation exchange capacity (CEC)
3. Certification:
   a. Phytosanitary Certification: All plant material inspection certificates required by federal, state or other governing authorities will accompany each shipment and be turned over to the Landscape Architect upon delivery.
4. Plant and Material Certifications:
   a. Certificates of inspection as required by governmental authorities.
   b. Manufacturer's or vendor's certified analysis for soil amendments and fertilizer materials.
   c. Label data substantiating that plants, trees, shrubs and planting materials comply with specified requirements.
   d. Seed vendor's certified statement for each grass seed mixture required, stating botanical and common name, percentages by weight, and percentages of purity, germination, and weed seed for each grass seed species.
5. Planting Schedule: Proposed planting schedule, indicating dates for each type of landscape work during normal seasons for such work in area of site. Correlate with specified maintenance periods to provide maintenance from date of substantial completion. Once accepted, revise dates only as approved in writing, after documentation of reasons for delays.
6. Construction Schedule: Upon authorization to proceed with the work, submit 3 copies of Construction Schedule indicating dates for items of work.
7. Maintenance Instructions: Submit 2 copies of typewritten instructions recommending procedures to be established by Owner for maintenance of landscape work for one full year. Submit prior to expiration or required maintenance period.
8. Toxic Chemicals: Submit products, rates of application, and anticipated use of pesticides, herbicides, and fumigants.

D. QUALITY ASSURANCE

1. Subcontract the landscape work to a single firm specializing in landscape work, with a minimum of five years experience.
2. Source Quality Control:
3. General: Ship landscape materials with certificates of inspection as required by governing authorities. Comply with governing regulations applicable to landscape materials.
   a. Do not make substitutions. If specified landscape material is not obtainable, submit proof of non-availability to Architect, together with proposal for use of equivalent material.
4. Analysis and Standards: Package standard products with manufacturer's certified analysis. For other materials, provide analysis by recognized laboratory made in accordance with methods established by the Association of Official Agriculture Chemists, wherever applicable.
5. Trees, Shrubs and Plants: Provide trees, shrubs, and plants of quantity, size, genus, species, and variety shown and scheduled for landscape work and complying with recommendations and requirements of ANSI Z60.1 "American Standard for Nursery Stock". Provide healthy, vigorous stock, grown in recognized nursery in accordance with good horticultural practice and free of disease, insects, eggs, larvae, and defects such as knots, sun-scald, injuries, abrasions, or disfigurements. They shall have healthy, well developed root systems.
6. Label each tree and shrub with securely attached waterproof tag bearing legible designation of botanical and common name.
   a. Where formal arrangements or consecutive order of trees or shrubs are shown, select stock for uniform height and spread, and label with number to assure symmetry in planting.
7. Inspection: The Architect may inspect trees and shrubs either at place of growth or at site before planting, for compliance with requirements for genus, species, variety, size, and quality. Owner's representative retains right to further inspect trees and shrubs for size and condition of balls and root systems, insects, injuries and latent defects, and to reject unsatisfactory or defective material at any time during progress of work. Remove rejected trees or shrubs immediately from project site.

E. DELIVERY, STORAGE, AND HANDLING

1. Packaged Materials: Deliver packaged materials in containers showing weight, analysis, and name of manufacturer. Protect materials from deterioration during delivery, and while stored at site.
2. Sod: Time delivery so that sod will be placed within 24 hours after stripping. Protect sod against drying and breaking of rolled strips.
3. Trees and Shrubs: Provide freshly dug trees and shrubs. Do not use trees or shrubs which have been in cold storage or heeled-in. Do not prune prior to delivery. Do not bend or bind-tie trees or shrubs in such manner as to damage bark, break branches, or destroy natural shape. Provide protective covering during delivery. Do not drop balled and burlapped stock during delivery.
4. Deliver trees and shrubs after preparations for planting have been completed and plant immediately. If planting is delayed more than 6 hours after delivery, set trees and shrubs in shade, protect from weather and mechanical damage, and keep roots moist by covering with mulch, burlap or other acceptable means of retaining moisture.
Do not remove container-grown stock from containers until planting time.

E. JOB CONDITIONS

1. Prior to beginning work, the Contractor shall examine and verify the acceptability of the job site and notify the Landscape Architect of unsatisfactory conditions. Do not proceed with the work until unsatisfactory conditions have been corrected or resolved in writing by the Landscape Architect.
2. Where planting occurs in close proximity to other site improvements, adequate protection shall be given to all features prior to commencing work. Any items damaged during planting operations shall be promptly repaired to their original condition at no cost to the Owner.
3. Utilities: Determine location of underground utilities and perform work in a manner which will avoid possible damage. Hand excavate, as required. Maintain grade stakes set by others until removal is mutually agreed upon by parties concerned.
4. Excavation: When conditions detrimental to plant growth are encountered, such as rubble fill, adverse drainage conditions, or obstructions, notify Owner's Representative before planting.

G. SEQUENCING AND SCHEDULING:

1. Planting Time: Plant material shall not be installed during months of July and August or during periods when temperatures exceed 95 deg. F, except when approved by Owner's Representative. Correlate planting with specified maintenance periods to provide maintenance from date of substantial completion of landscape work.
2. Coordination with Lawns: Plant trees and shrubs after final grades are established and prior to planting of lawns, unless otherwise acceptable to Owner's Representative. If planting of trees and shrubs occurs after lawn work, protect lawn areas and promptly repair damage to lawns resulting from planting operations.

H. SPECIAL PROJECT WARRANTY

1. Warranty lawns through specified lawn maintenance period.
2. Warranty trees and shrubs through specified maintenance period.
3. Warranty all plant material to be true to botanical name, specified size.
4. After receiving a Notice of Provisional Acceptance, all plant materials maintained in a vigorous condition and warranted against defects including death, improper maintenance, and unsatisfactory growth for the following time periods:
   a. Guarantee lawns for 90 days
   b. Guarantee trees, shrubs, perennials, and groundcovers for 365 days
5. During the warranty period, replace, at no additional expense to the Owner, plant materials that are dead or that are, in the opinion of the Landscape Architect, in an unhealthy or unsightly condition, or that have lost their natural shape due to dead branches, excessive pruning, or inadequate or improper maintenance. Rejected plant materials shall be removed from the site and legally disposed of at no additional expense to the Owner.
6. Replacement plants and planting operations shall be in accordance with the original specifications. Replacements shall be made as soon as possible but no later than the next succeeding planting season. Fully restore areas damaged by replacement operations to their original and specified condition. Only one replacement (per tree, shrub or plant) will be required at end of warranty period, except for losses or replacements due to failure to comply with specified requirements.
7. Provide all maintenance for guarantee period.

PART 2 - PRODUCTS

A. SOIL MIX

1. Soil mix shall be 'Topsoil Plus' by St. Louis Composting (or site amended soil to meet 'Topsoil Plus' soil mix criteria).

B. TOPSOIL

1. ASTM D5268, natural, friable, fertile, fine loamy soil possessing characteristics of representative topsoil in the vicinity that produces heavy growth. Topsoil shall have a pH range of 5.5 to 7.4 percent, free from subsoil, objectionable weeds, litter, sods, stiff clay, stones larger than 1-inch in diameter, stumps, roots, trash, toxic substances, or any other material which may be harmful to the plant growth or hinder planting operations. Topsoil shall contain a minimum of three percent organic material.
2. Imported Topsoil: Supplement salvaged topsoil with imported topsoil from off-site sources when existing quantities are insufficient.
3. Obtain topsoil displaced from naturally well-drained sites where topsoil occurs at least 6 inches deep; do not obtain from agricultural land, bogs, or marshes.
4. Verify borrow and disposal sites are permitted as required by state and local regulations. Obtain written confirmation that permits are current and active.
5. Obtain permits required by state and local regulations for transporting topsoil. Permits shall be current and active.

C. SOIL AMENDMENTS (in lieu of soil mix)

1. Commercial Fertilizer: Complete fertilizer of neutral character, with some elements derived from organic sources and containing following percentages of available plant nutrients.
   a. For lawns, provide fertilizer with not less than 6 percent phosphoric acid and not less than 4 percent potassium, and the percentage of nitrogen required to provide not less than 1 lb. of actual nitrogen per 1000 sq.ft. of lawn area.
   b. For lawns, provide fertilizer with not less than 6 percent phosphoric acid and not less than 4 percent potassium, and the percentage of nitrogen required to provide not less than 1 lb. of actual nitrogen per 1000 sq. ft. of lawn area.
   c. For ground cover and planting beds, provide 10-10-10 fertilizer applied at 3 lbs. per 100 sq.ft.
   d. For trees and shrubs, "Woodace"/Estach, Inc. Briquettes (14-3-3), Fairview Heights, IL per manufacturer's recommendations for quantity and rate for the size and species, or equal.
2. Peat Moss: Shall be finely shredded, consisting of 90 percent organic moss peat, be brown in color and suitable for horticultural purposes. Shredded particles shall not exceed 1/2-inch in diameter.
3. Organic Matter: Leaf matter and yard waste composted sufficiently to break down all woody fibers, seeds, and leaf structures, and free of toxic and nonorganic matter. Organic matter shall be commercially prepared compost. Submit 0.5kg (1 lb) sample and suppliers literature for approval.
4. Course Sand: Course concrete sand, ASTM C-33 Fine Aggregate, with a Fines Modulus Index of 2.75 or greater.
   a. Sands shall be clean, sharp, natural sands free of limestone, shale and slate particles.
   b. Provide the following particle size distributions:

Sieve	Percentage Passing
3/8 in (9.5mm)	100
No. 4 (4.75mm)	95-100
No. 8 (2.38mm)	80-100
No. 16 (1.18mm)	50-85
No. 30 (0.60mm)	25-60
No. 50 (0.30mm)	10-30
No. 100 (0.15mm)	2-10

1. Lime: shall be ground, palletized, or pulverized lime manufactured to meet agriculture standards and contain a maximum of 60 percent oxide (i.e. calcium oxide plus magnesium oxide). Submit manufacturer literature for approval.
2. Sulfur: shall be flowers of sulfur, pelletized or granular sulfur or iron sulfate. Submit manufacturer literature for approval.

SECTION 32 93 00 LANDSCAPE WORK

PART 2 - PRODUCTS (Continued)

D. PLANT MATERIALS

3. Quality: Provide trees, shrubs, and other plants of size, genus, species, and variety shown and schedule for landscape work complying with the recommendations and requirements of ANSI Z60.1 "Standard for Nursery Stock".
4. Deciduous Trees: Provide trees of height and caliper scheduled or shown with branching configuration recommended by ANSI Z60.1 for type and species required. Provide single stem trees except where special forms are shown or listed.
   a. Provide balled and burlapped (B&B) deciduous trees.
3. Deciduous and Evergreen Shrubs: Provide shrubs of the height shown or listed and with not less than minimum number of canes required by ANSI Z60.1 for type and height of shrub required.
   a. Provide balled and burlapped (B&B) deciduous and evergreen shrubs.
   b. Container grown deciduous shrubs will be acceptable in lieu of balled and burlapped deciduous shrubs subject to specified limitation for container grown stock.
4. Coniferous and Broadleafed Evergreens: Provide evergreens of sizes shown or listed. Dimensions indicate minimum spread for spreading and semi-spreading type evergreens and height for other types, such as globe, dwarf, cone, pyramidal, broad upright, and columnar. Provide normal quality evergreens with well balanced form complying with requirements for other size relationships to the primary dimension shown.
   a. Provide balled and burlapped (B&B) evergreens.

E. GRASS MATERIALS

1. Grass Seed: Provide fresh, clean, new-crop seed complying with the tolerance for purity and germination established by the Official Seed Analysts of North America. Provide seed of the grass species, proportions and minimum percentages of purity, germination, and maximum percentage of weed seed, as follows:
   a. Seed Mix-Application of 4 pounds per 1,000 sq.ft.

PERCENT BY WEIGHT	NAME OF GRASS	PERCENT PURITY	PERCENT GERMINATION
10	Advent Perennial Rye	97	85
10	Kentucky Bluegrass	97	85
80	Turf-type Tall Fescue	97	85
100 percent			

2. Sod: Provide machine-cut strongly rooted, certified turfgrass sod, at least 2 years old and free of weeds and undesirable native grasses. Provide sod capable of vigorous growth and development when planted (viable, not dormant) and complying with the following requirements:
   a. Type: Kentucky Bluegrass (Poa pratensis) / Turf Type tall Fescue mix.
   b. Sod Pad Size: Uniform thickness of 5/8-inch, plus or minus 1/4-inch, measured at time of cutting and excluding top growth and thatch. Provide in supplier's standard size of uniform length and width with maximum 5 percent allowable deviation in either length or width. Broken or torn pads or pads with uneven ends are not acceptable.
   c. Sod Strength: Provide sod pads capable of supporting their own weight and retaining size and shape when supplier's standard size pad is suspended vertically from a firm grasp on upper 10 percent of pad.

F. GROUND COVER

1. Provide plants established and well-rooted in removable containers or integral peat pots and with not less than minimum number and length of runners required by ANSI Z60.1 for pot size shown or listed.

G. MISCELLANEOUS LANDSCAPE MATERIALS

1. Anti-Desiccant: Emulsion type, film-forming agent designed to permit transpiration, but retard excessive loss of moisture from plants. Deliver in manufacturer's fully identified containers and mix in accordance with manufacturer's instructions.
2. Filtration/Separation Fabric: Water permeable filtration fabric of fiberglass or polypropylene fabric.
3. Wrapping: Tree-wrap tape not less than 4 inches wide, designed to prevent borer damage and winter freezing.
4. Stakes and Guys: Provide stakes and deadmen of sound new hardwood, treated softwood, or redwood, free of knot holes and other defects. Provide wire ties and guys of 2-strand, twisted, pliable galvanized iron wire, not lighter than 12-gage with zinc-coated turnbuckles. Provide not less than 1/2-inch-diameter rubber or plastic hose, cut to required lengths and of uniform color, material, and size to protect tree trunks from damage by wires.
5. Mulch: Clean double ground hardwood bark mulch. Mulch shall be uniform in size, and free of foreign matter.

PART 3 - EXECUTION

A. PREPARATION - GENERAL

1. Layout individual tree and shrub locations and areas for multiple plantings. Stake locations and outline areas and secure Architect's acceptance before start of planting work. Make minor adjustments as may be requested.
2. If obstructions are encountered that are not indicated, do not proceed with planting operations until alternative plant locations have been selected and approved in writing by the Landscape Architect. Where location or spacing dimensions are not clearly shown, request clarification by the Landscape Architect.

B. PREPARATION FOR PLANTING LAWNS

1. Loosen subgrade of lawn areas to a minimum depth of 4 inches. Remove stones over 1-inch in any dimension. Remove sticks, roots, rubbish, and other extraneous matter. Limit preparation to areas which will be planted in the immediate future.
2. Preparation of Unchanged Grades: Where lawns are to be planted in areas that have not been altered or disturbed by excavating, grading, or stripping operations, prepare soil for lawn planting as follows:
   a. Till to a depth of not less than 6 inches. Apply soil amendments and initial fertilizers as specified. Remove high areas and fill in depressions. Till soil to a homogenous mixture of fine texture, free of lumps, clods, stones, roots and other extraneous matter.
   b. Prior to preparation of unchanged areas, remove existing grass, vegetation and turf. Dispose of such material outside of Owner's property. Do not turn existing vegetation over into soil being prepared for lawns.
   c. Allow for sod thickness in areas to be sodded.
   d. Apply specified commercial fertilizer at rates specified and thoroughly mix into upper 2 inches of topsoil. Delay application of fertilizer if lawn planting will not follow within a few days.
3. Fine grade lawn areas to smooth, even surface with loose, uniformly fine texture. Roll and rake and remove ridges and fill depressions, as required to meet finish grades. Limit fine grading to areas which can be planted within the immediate future.
   a. Provide for positive drainage from all areas towards the existing inlets and drainage structures.
4. Moisten prepared lawn areas before planting if soil is dry. Water thoroughly and allow surface moisture to dry before planting lawns. Do not create a muddy soil condition.
5. Restore lawn areas to specified condition if eroded or otherwise disturbed after fine grading and prior to planting.

C. PREPARATION OF PLANTING BEDS

1. Loosen subgrade of planting bed areas to a minimum depth of 4 inches using a culti-mulcher or similar equipment. Remove stones measuring over 1-1/2 inches in any dimension. Remove sticks, stones, rubbish, and other extraneous matter.
2. Add peat moss at rate of 3 cubic yards per 1000 s.f.
3. Dig beds not less than 8 inches deep and mix with specified soil amendments and fertilizers.

D. EXCAVATION FOR TREES AND SHRUBS

1. Excavate pits, beds, and trenches with vertical sides and with bottom of excavation slightly raised at center to provide proper drainage. Loosen hard subsoil in bottom of excavation.
   a. For balled and burlapped (B&B trees and shrubs), make excavations at least two times as wide as the ball diameter and allowing for the ball to 3 inches about surrounding grade, plus allowance for setting of ball on a layer of compacted backfill.
   b. For container grown stock, excavate as specified for balled and burlapped stock, adjusted to size of container width and depth.

E. PLANTING TREES AND SHRUBS

1. Set balled and burlapped (B&B) stock on layer of compacted planting soil mixture, plumb and in center of pit or trench with top of ball at same elevation as adjacent finished landscape grades. Remove ropes from around the trunks and top of ball on trees and shrubs. Remove burlap from sides of balls; retain on bottoms. When set, place additional backfill around base and sides of ball, and work each layer to settle backfill and eliminate voids and air pockets. When excavation is approximately 2/3 full, water thoroughly before placing remainder of backfill. Repeat watering until no more is absorbed. Water again after placing final layer of backfill.
2. Set container grown stock, as specified, for balled burlapped stock, except cut cans on 2 sides with an approved can cutter; remove bottoms of wooden boxes after partial backfilling so as not to damage root balls.
3. Dish top of backfill to allow for mulching.
4. Mulch pits, trenches, and planted areas. Provide not less than following thickness of mulch, and work into top of backfill and finish level with adjacent finish grades.
a. Provide 3 inches thickness of mulch.
5. Apply anti-desiccant, using power spray, to provide an adequate film over trunks, branches, stems, twigs and foliage.
a. If deciduous trees or shrubs are moved when in fulleaf, spray with anti-desiccant at nursery before moving and spray again 2 weeks after planting.
6. Prune, thin out, and shape trees and shrubs in accordance with standard horticultural practice. Prune trees to retain required height and spread. Unless otherwise directed by Architect, do not cut tree leaders, and remove only injured or dead branches from flowering trees, if any. Prune shrubs to retain natural character.
7. Remove and replace excessively pruned or misformed stock resulting from improper pruning.
8. Wrap tree trunks of 2 inches caliper and larger. Start at ground and cover trunk to height of first branches and securely attach. Inspect tree trunks for injury, improper pruning and insect infestation and take corrective measures before wrapping.
9. Guy and stake trees immediately after planting, as indicated.

F. SEEDING NEW LAWNS

1. Sow seed using a Hydroseed machine. Do not seed when wind velocity exceeds 5 mi. per hr. Distribute seed evenly over entire area by sowing equal quantity in 2 directions at right angles to each other.
   a. Do not use wet seed or seed which is moldy or otherwise damaged in transit or storage or, do not plant seed when ground is frozen.
   b. Sow not less than the quantity of seed specified or scheduled.
2. Rake seed lightly into top 1/8-inch of soil, roll lightly, and water with a fine spray.
3. Protect seeded slopes against erosion with erosion netting or other methods acceptable to Architect.
4. Protect seeded areas against erosion by spreading specified lawn mulch after completion of seeding operations. Spread uniformly to form a continuous blanket not less than 1-1/2 inches loose measurement over seeded areas.

G. SODDING NEW LAWNS

1. Lay sod within 24 hours from time of stripping. Do not plant dormant sod or if ground is frozen.
2. Lay sod to form a solid mass with tightly fitted joints. Butt ends and sides of sod strips; do not overlap. Stagger strips to offset joints in adjacent courses. Work from boards to avoid damage to subgrade or sod. Tamp or roll lightly to ensure contact with subgrade. Work sifted soil into minor cracks between pieces of sod; remove excess to avoid smothering of adjacent grass.
   a. Anchor sod on slopes with wood pegs to prevent slippage.
3. Water sod thoroughly with a fine spray immediately after planting. During first week, water daily or more frequently as necessary to maintain moist soil to depth of 4 inches.

SECTION 32 93 00 LANDSCAPE WORK

PART 3 - EXECUTION (Continued)

H. PLANTING GROUND COVER

1. Space ground cover plants as indicated or scheduled. Space ground cover plants not more than 24 inches o.c.
2. Dig holes large enough to allow for spreading of roots and backfill with planting soil. Work soil around roots to eliminate air pockets and leave a slight saucer indentation around plant to hold water. Water thoroughly after planting, taking care not to cover crowns of plants with wet soils.
3. Mulch areas between ground cover plants; place not less than 2 inches thick.

I. MAINTENANCE

1. Maintain trees, shrubs, and groundcover for a period of 365 calendar days immediately following complete installation. Include watering, weeding, cultivating, restoration of grade, pruning trees and shrubs, protection from insects and diseases, fertilizing and similar operations as needed to ensure normal growth and good health for live plant material.
2. Maintain grass lawns for a period of 90 calendar days immediately following complete installation. Include watering, weeding, mowing and trimming, protection from insects and diseases, fertilizing and similar operations as needed to ensure normal growth and good health for live plant material.
3. Maintenance During Installation: Planting maintenance shall begin immediately after each plant is planted and shall continue as required until final acceptance.
4. Plants shall be inspected at least once per week by the Contractor during the installation period and needed maintenance performed promptly.
5. Subcontractor shall irrigate all plants and lawns on a schedule approved by the Landscape Architect. Schedule shall maintain an adequate supply of moisture within the root zone. If the irrigation system is inoperative, hand watering shall be accomplished from a course approved by the Landscape Architect. Water shall not be applied with a force that will displace mulch or cause soil erosion and shall not be applied so quickly that it cannot be absorbed by the mulch and plants.
6. Plants shall be pruned and mulch replaced as required.
7. Stakes, guys, and eroded plant saucers shall be tightened or replaced as required.
8. In plant beds, grass and weeds shall not be allowed to reach a height of 3 inches before being completely removed, including root growth.
9. Other work such as spraying with approved insecticides and fungicides to control pests shall be done to insure plant survival in a health growing condition.
10. Dead plants shall be removed immediately at the Contractor's expense.

J. CLEANUP AND PROTECTION

1. During landscape work, keep pavements clean and work area in an orderly condition.
2. Protect landscape work and materials from damage due to landscape operations, operations by other contractors and trades and trespassers. Maintain protection during installation and maintenance periods. Treat, repair or replace damaged landscape work as directed.

K. INSPECTION AND ACCEPTANCE

1. Inform Architect in writing of date of completion of 90 days maintenance and warranty. Make all replacements and conduct final inspection. Full maintenance to continue until final acceptance by Contractor.
2. Acceptance of plant materials shall be for equal general conformance to specified size, character, and quality and shall not relieve the contractor of responsibility for full conformance to the contract documents, including correct species.
3. Landscape work may be inspected for acceptance in portions as agreeable to Architect, provided each portion of work offered for inspection is complete, including maintenance.
4. When inspected landscape work does not comply with requirements, replace rejected work and continue specified maintenance until reinspected by Architect and found to be acceptable. Remove rejected plants and materials promptly from project site.

END OF SECTION 32 93 00

Consultants:

CENTRAL COUNTY FIRE & RESCUE

360 Ecology Drive
Saint Peters, Missouri 63376

Revisions:

Date	Description	No.

Drawn: KP
Checked: RS

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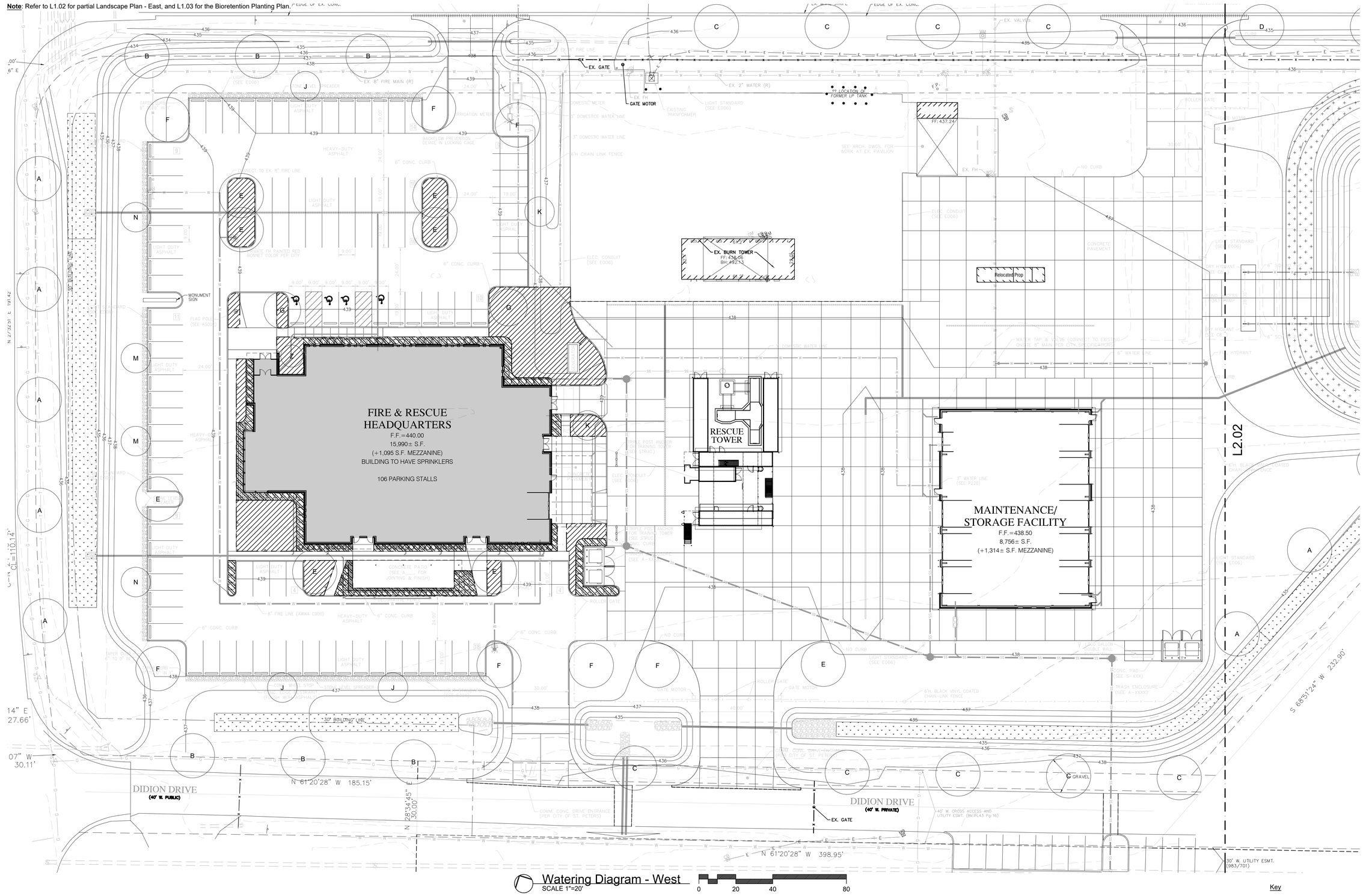
Missouri State Certificate of Authority #: LAC #000019

Sheet Title: Landscape Specifications

Sheet No: L1.04

Date: 9/15/25
Job #: 584.077

Note: Refer to L1.02 for partial Landscape Plan - East, and L1.03 for the Bioretention Planting Plan.



Watering Diagram - West

SCALE 1"=20'

0 20 40 80

Key

- Proposed irrigated landscape beds: 100% coverage with 12" pop-up heads
- Proposed irrigated lawn areas: 100% coverage with 4" pop-up heads
- Non-irrigated prairie seed areas
- Non-irrigated aquatic bench area

Irrigation Notes:

1) Contractor to provide a design/build irrigation system. The contractor is responsible for the design and performance of the system, based on this plan. Submit drawings of irrigation system and cut sheets of all irrigation equipment to Landscape Architect for approval prior to start of work.

2) Show all sleeve locations on shop drawing for review by Landscape Architect.

3) Irrigation contractor shall be responsible to obtain all permits required by state, city, and local authorities and conform to all codes regarding irrigation systems.

4) Civil and utility information shown for reference only. See Civil drawings and field locate utilities prior to start of work.

5) Irrigation contractor is responsible for coordination with Plumbing and Electrical Contractors.

6) Irrigation contractor shall coordinate watering requirements with Landscape Contractor to insure proper level of water is provided.

7) No spraying across pavement (Roadways and Sidewalks)

8) Main line and all valves to be located within property.

Note: Refer to L2.02 for design-build underground irrigation system specifications.

CENTRAL COUNTY FIRE & RESCUE

360 Ecology Drive
Saint Peters, Missouri 63376

Consultants:

Revisions:

Date	Description	No.

Drawn: KP
Checked: RS

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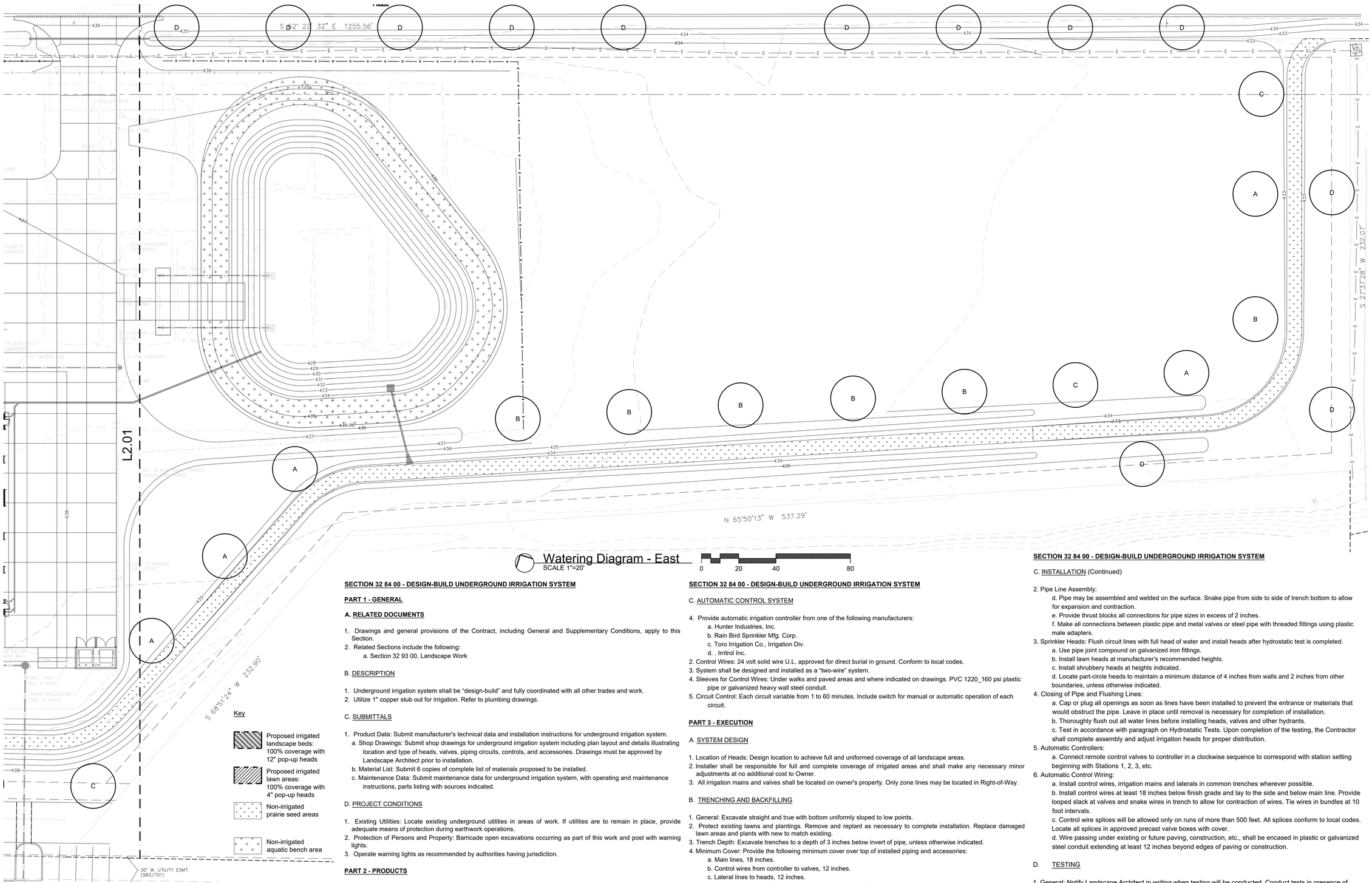
Missouri State Certificate of Authority #: LAC #000019

Sheet Title: Watering Diagram - West

Sheet No: L2.01

Date: 9/15/25
Job #: 584.077



Watering Diagram - East
SCALE 1"=20'

0 20 40 80

Irrigation Notes:

1) Contractor to provide a design/build irrigation system. The contractor is responsible for the design and performance of the system, based on this plan. Submit drawings of irrigation system and cut sheets of all irrigation equipment to Landscape Architect for approval prior to start of work.

2) Show all sleeve locations on shop drawing for review by Landscape Architect.

3) Irrigation contractor shall be responsible to obtain all permits required by state, city, and local authorities and conform to all codes regarding irrigation systems.

4) Civil and utility information shown for reference only. See Civil drawings and field locate utilities prior to start of work.

5) Irrigation contractor is responsible for coordination with Plumbing and Electrical Contractors.

6) Irrigation contractor shall coordinate watering requirements with Landscape Contractor to insure proper level of water is provided.

7) No spraying across pavement (Roadways and Sidewalks)

8) Main line and all valves to be located within property.

SECTION 32 84 00 - DESIGN-BUILD UNDERGROUND IRRIGATION SYSTEM

PART 1 - GENERAL

A. RELATED DOCUMENTS

1. Drawings and general provisions of the Contract, including General and Supplementary Conditions, apply to this Section.
2. Related Sections include the following:
   a. Section 32 93 00, Landscape Work

B. DESCRIPTION

1. Underground irrigation system shall be "design-build" and fully coordinated with all other trades and work.
2. Utilize 1" copper stub out for irrigation. Refer to plumbing drawings.

C. SUBMITTALS

1. Product Data: Submit manufacturer's technical data and installation instructions for underground irrigation system.
   a. Shop Drawings: Submit shop drawings for underground irrigation system including plan layout and details illustrating location and type of heads, valves, piping circuits, controls, and accessories. Drawings must be approved by Landscape Architect prior to installation.
   b. Material List: Submit 6 copies of complete list of materials proposed to be installed.
   c. Maintenance Data: Submit maintenance data for underground irrigation system, with operating and maintenance instructions, parts listing with sources indicated.

D. PROJECT CONDITIONS

1. Existing Utilities: Locate existing underground utilities in areas of work. If utilities are to remain in place, provide adequate means of protection during earthwork operations.
2. Protection of Persons and Property: Barricade open excavations occurring as part of this work and post with warning lights.
3. Operate warning lights as recommended by authorities having jurisdiction.

PART 2 - PRODUCTS

A. MANUFACTURERS

1. Manufacturer: Subject to compliance with requirements, provide products of one of the following:
   a. Hunter Industries, Inc.
   b. Rain Bird Sprinkler Mfg. Corp.
   c. Toro Co., Irrigation Div.

B. MATERIALS

1. Plastic Pipe: Main line 1- to 3-inch pipe shall be Class 160 polyvinyl chloride (PVC) pipe. Pipe smaller than 1-inch shall be class 200 pvc pipe and conform to CS-256-63.
   a. Plastic Fittings: Schedule 40, polyvinyl chloride (PVC) standard weight as manufactured by Sloane, Lasco, or approved equal.
   b. Solvent Cement: Compatible with PVC pipe and of proper consistency. Use low temperature solvent cement when temperatures are below 40 deg F.
   c. Sprinkler Head Risers: Flexible pipe or flexible nipple, or swing pipe.
2. Sprinkler Heads: Manufacturer's standard unit designed to provide uniform coverage over entire area of spray, install per manufacturer's recommendations.
3. Service Saddles: Shall be Smith-Blair double strap, all bronze.
4. Valve Box, Valve Cover and Frame: Precast unit to manufacturer's specifications. Provide Ametek or approved equal.
5. Drainage Backfill: Cleaned gravel or crushed stone, graded from 3-inch maximum to 3/4-inch minimum.

SECTION 32 84 00 - DESIGN-BUILD UNDERGROUND IRRIGATION SYSTEM

C. AUTOMATIC CONTROL SYSTEM

4. Provide automatic irrigation controller from one of the following manufacturers:
   a. Hunter Industries, Inc.
   b. Rain Bird Sprinkler Mfg. Corp.
   c. Toro Irrigation Co., Irrigation Div.
   d. . Irritrol Inc.
2. Control Wires: 24 volt solid wire U.L. approved for direct burial in ground. Conform to local codes.
3. System shall be designed and installed as a "two-wire" system.
4. Sleeves for Control Wires: Under walks and paved areas and where indicated on drawings. PVC 1220_160 psi plastic pipe or galvanized heavy wall steel conduit.
5. Circuit Control: Each circuit variable from 1 to 60 minutes. Include switch for manual or automatic operation of each circuit.

PART 3 - EXECUTION

A. SYSTEM DESIGN

1. Location of Heads: Design location to achieve full and uniformed coverage of all landscape areas.
2. Installer shall be responsible for full and complete coverage of irrigated areas and shall make any necessary minor adjustments at no additional cost to Owner.
3. All irrigation mains and valves shall be located on owner's property. Only zone lines may be located in Right-of-Way.

B. TRENCHING AND BACKFILLING

1. General: Excavate straight and true with bottom uniformly sloped to low points.
2. Protect existing lawns and plantings. Remove and replant as necessary to complete installation. Replace damaged lawn areas and plants with new to match existing.
3. Trench Depth: Excavate trenches to a depth of 3 inches below invert of pipe, unless otherwise indicated.
4. Minimum Cover: Provide the following minimum cover over top of installed piping and accessories:
   a. Main lines, 18 inches.
   b. Control wires from controller to valves, 12 inches.
   c. Lateral lines to heads, 12 inches.
   d. Lateral lines and mains crossing proposed roadways, 24 inches.
5. Backfill: Backfill with clean material from excavation. Remove organic material as well as rocks and debris larger than 1-inch-diameter. Place acceptable backfill material in 6-inch lifts, compacting each lift with water.
6. Existing Lawns: Where trenching is required across existing lawns, uniformly cut strips of sod 6 inches wider than trench. Remove sod in rolls of suitable size for handling and keep moistened until replanted.
7. Backfill trench to within 6 inches of finished grade. Continue fill with acceptable topsoil and compact to bring sod even with existing lawn.
8. Replant sod within 7 days after removal, roll and water generously.
9. Reseed and restore to original condition any sod areas not in healthy condition equal to adjoining lawns 30 days after replanting.
10. Pavements: Bore existing pavements if plan required installation below existing pavements.

C. INSTALLATION

1. General: Unless otherwise indicated, comply with requirements of the Uniform Plumbing Code.
2. Pipe Line Assembly:
   a. Install remote control valves where shown and group together where practical; place no closer than 12 inches to walk edges, building and walls. All valves installed in approved precast valve boxes with cover.
   b. Plastic pipe and fittings shall be solvent welded using solvents and methods as recommended by manufacturer of pipe, except where screwed connections are required.
   c. Pipe and fittings shall be thoroughly cleaned of dirt, dust and moisture before applying solvent with a non-synthetic bristle brush.

SECTION 32 84 00 - DESIGN-BUILD UNDERGROUND IRRIGATION SYSTEM

C. INSTALLATION (Continued)

2. Pipe Line Assembly:
   d. Pipe may be assembled and welded on the surface. Snake pipe from side to side of trench bottom to allow for expansion and contraction.
   e. Provide thrust blocks all connections for pipe sizes in excess of 2 inches.
   f. Make all connections between plastic pipe and metal valves or steel pipe with threaded fittings using plastic male adapters.
3. Sprinkler Heads: Flush circuit lines with full head of water and install heads after hydrostatic test is completed.
   a. Use pipe joint compound on galvanized iron fittings.
   b. Install lawn heads at manufacturer's recommended heights.
   c. Install shrubbery heads at heights indicated.
   d. Locate part-circle heads to maintain a minimum distance of 4 inches from walls and 2 inches from other boundaries, unless otherwise indicated.
4. Closing of Pipe and Flushing Lines:
   a. Cap or plug all openings as soon as lines have been installed to prevent the entrance or materials that would obstruct the pipe. Leave in place until removal is necessary for completion of installation.
   b. Thoroughly flush out all water lines before installing heads, valves and other hydrants.
   c. Test in accordance with paragraph on Hydrostatic Tests. Upon completion of the testing, the Contractor shall complete assembly and adjust irrigation heads for proper distribution.
5. Automatic Controllers:
   a. Connect remote control valves to controller in a clockwise sequence to correspond with station setting beginning with Stations 1, 2, 3, etc.
6. Automatic Control Wiring:
   a. Install control wires, irrigation mains and laterals in common trenches wherever possible.
   b. Install control wires at least 18 inches below finish grade and lay to the side and below main line. Provide looped slack at valves and snake wires in trench to allow for contraction of wires. Tie wires in bundles at 10 foot intervals.
   c. Control wire splices will be allowed only on runs of more than 500 feet. All splices conform to local codes. Locate all splices in approved precast valve boxes with cover.
   d. Wire passing under existing or future paving, construction, etc., shall be encased in plastic or galvanized steel conduit extending at least 12 inches beyond edges of paving or construction.

D. TESTING

1. General: Notify Landscape Architect in writing when testing will be conducted. Conduct tests in presence of Landscape Architect.
2. Operational Testing: Perform operational testing after backfill is in place, and irrigation heads adjusted to final position.
3. Demonstrate to Landscape Architect that system meets coverage requirements and that automatic controls function properly.
4. Coverage requirements are based on operation of one circuit at a time.
5. After completion of grading, seeding or sodding, and rolling of grass areas, carefully adjust lawn irrigation heads so they will be flush with or not more than 1/2-inch above finish grade.

E. CLEANUP

1. Remove from site debris resulting from work of this section.

F. "AS-BUILT" IRRIGATION DRAWINGS

1. Prepare an "As-Built" drawing on a blueline print which shall show deviations from the bid documents made during construction affecting the main line pipe, controller locations, remote control valves, quick-coupling valves and all sprinkler heads. The drawings shall also indicate and show approved substitutions of size, material and manufacturer's name and catalog name and catalog number. The drawing shall be delivered to the Owner before final acceptance of Work. Drawings shall identify systems as coordinated on the clock.

END OF SECTION 32 84 00

Consultants:

CENTRAL COUNTY FIRE & RESCUE

360 Ecology Drive
Saint Peters, Missouri 63376

Revisions:

Date	Description	No.

Drawn: KP
Checked: RS

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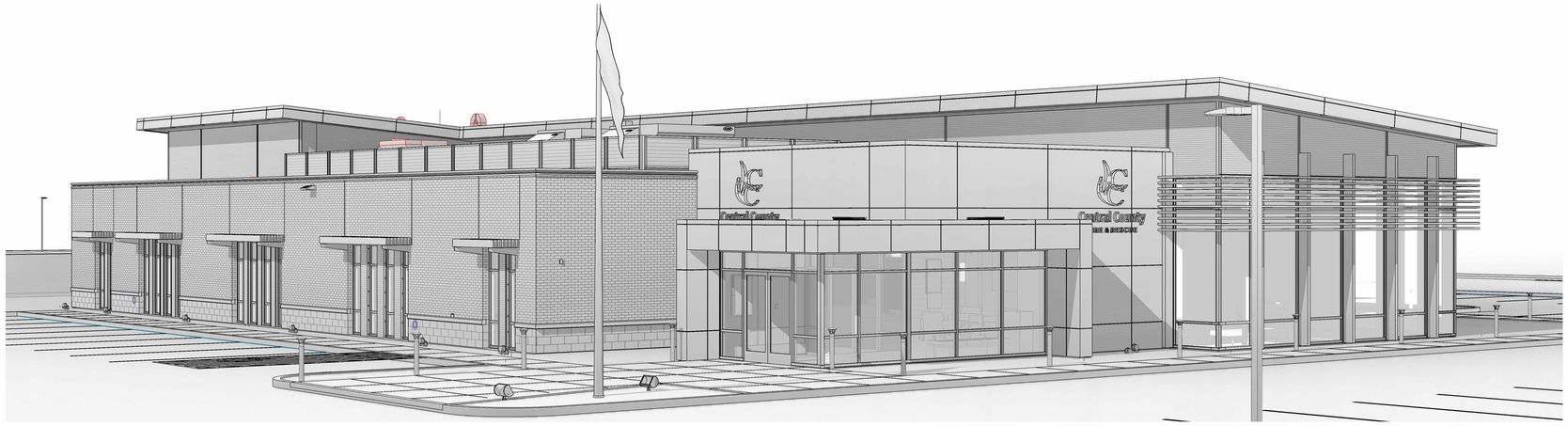
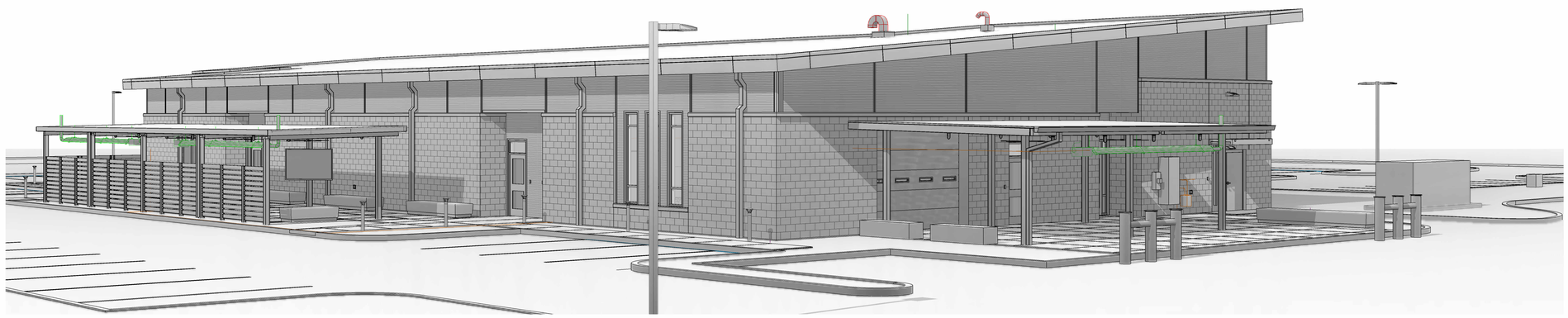
Sheet Title: Watering Diagram - East

Sheet No: L2.02

Date: 9/15/25
Job #: 584.077



C1 HEADQUARTERS 3D NORTHWEST



A1 HEADQUARTERS 3D SOUTHEAST

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FS2.6	CAPTIVEAIRE DETAILS	■
FS2.7	CAPTIVEAIRE DETAILS	■
FS3.0	FOODSERVICE EQUIPMENT ELEVATION	■

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No.	Date	Revision

HEADQUARTERS 3D

Project No.
23121

Sheet No.
A100

Date
09/16/2025

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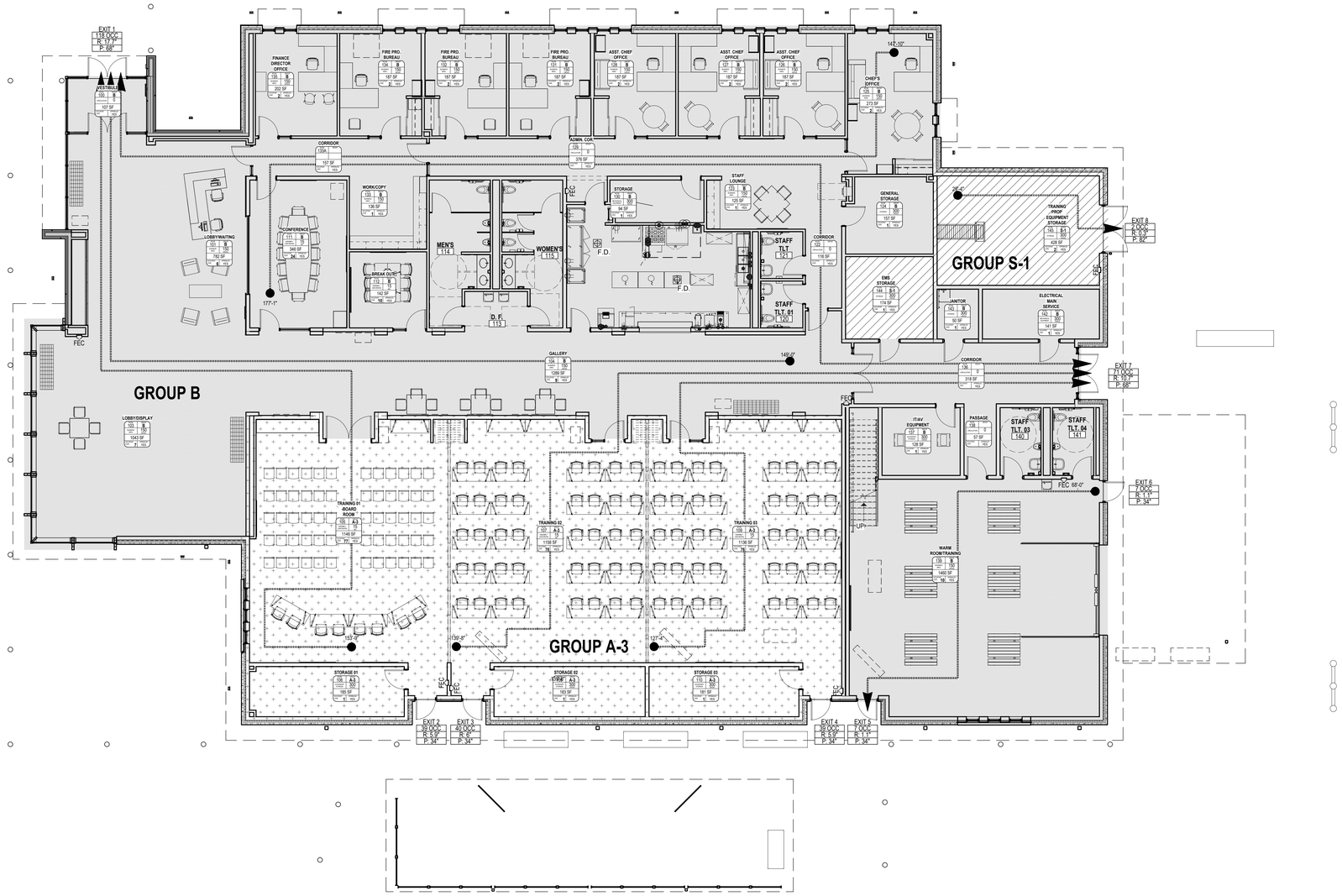

A1 LIFE SAFETY PLAN
1/8" = 1'-0"

2021 IECC TABLE

TABLE C402.1.3 - ZONE 4A	REQUIRED	PROVIDED
ROOF - INSULATION ENTIRELY ABOVE DECK	R30 CI	
WALLS - METAL FRAMED	R13 + R7.5 CI	
METAL BUILDING	R13 + R13 CI	
BELOW GRADE WALLS	R 7.5 CI	
MASS WALLS	R 9.5 CI	
UNHEATED SLABS	R-15 FOR 24" BELOW	
OPAQUE DOORS		
NONSWINGING DOORS		
FENESTRATION ASSEMBLIES - ZONE 4	**REQUIRED**	**PROVIDED**
CURTAINWALL / STOREFRONT		
ENTRANCE DOOR		
SHGC		

LIFE SAFETY PLAN LEGEND

SYMBOL	DESCRIPTION
XXX / AREA / XX / XX	**ROOM OCCUPANCY LOAD TAG** OCCUPANCY CLASSIFICATION MAX. FLOOR AREA ALLOWANCES PER OCCUPANT ROOM AREA (SQUARE FEET) OCCUPANCY LOAD INDICATES SPACE IS SPRINKLERED (YES/NO)
EXIT # XX OCC R: XX" P: XX"	**DOOR EGRESS TAG** # OF OCCUPANTS ALLOWED TO EGRESS THRU OPENING PER CODE WIDTH REQUIRED WIDTH PROVIDED
F.E.	FIRE EXTINGUISHER ON WALL MOUNTED BRACKET.
F.E.C.	FIRE EXTINGUISHER IN CABINET.
	EXIT SIGN - SEE ELECTRICAL DRAWINGS.
	EXIT SIGN WITH EMERGENCY LIGHTS - SEE ELECTRICAL DRAWINGS.
	EMERGENCY LIGHT - SEE ELECTRICAL DRAWINGS.
6'-0"	**EGRESS PATH** DISTANCE OF PATH

EMERGENCY LIGHTS ARE LOCATED OVER ALL EXT. EXIT DOORS - SEE ELECTRICAL DRAWINGS.

CODE INFORMATION

APPLICABLE CODES

- 2021 INTERNATIONAL BUILDING CODE
- 2021 INTERNATIONAL FIRE CODE
- 2020 NATIONAL ELECTRICAL CODE (NFPA 70)
- 2021 INTERNATIONAL ENERGY CONSERVATION CODE
- 2021 INTERNATIONAL MECHANICAL CODE
- 2021 INTERNATIONAL FUEL GAS CODE
- 2021 INTERNATIONAL PLUMBING CODE
- 2021 INTERNATIONAL PROPERTY MAINTENANCE CODE
- 2020 ICC 500 (STORM SHELTER CODE)

ALLOWABLE BUILDING HEIGHTS & AREAS

- USE GROUP: A-3 (PER IBC SECTION 303.4)
  B (PER IBC SECTION 304.1)
  S-1 (PER IBC SECTION 311.2)
- CONSTRUCTION TYPE: IIB (PER IBC SECTION 602.5)

ALLOWABLE AREAS - PER IBC TABLE 506.2:

OCCUPANCIES:		ACTUAL AREA
A-3	38,000 SF	4,347 SF
B	92,000 SF	11,028 SF
S-1	70,000 SF	1,765 SF
TOTAL:		17,140 SF

ALLOWABLE STORIES - PER IBC TABLE 504.4:

OCCUPANCIES:		ACTUAL STORIES
A-3	3	1
B	4	1
S-1	4	1

ALLOWABLE HEIGHT - PER IBC TABLE 504.3: ACTUAL HEIGHT
OCCUPANCIES: A-3, B, S-1 = 75' - 0" 24' - 0"

FIRE RESISTANCE RATING REQUIREMENTS

TYPE IIB CONSTRUCTION

STRUCTURAL FRAME:	0 HR
BEARING WALLS EXTERIOR:	0 HR
BEARING WALLS INTERIOR:	0 HR
NON-BEARING WALL & PARTITION INTERIOR:	0 HR
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS & JOISTS:	0 HR
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS & JOISTS:	0 HR

THE BUILDING IS FULLY SPRINKLERED, IN ACCORDANCE WITH SECTION 903.3.1.1 (NFPA 13 SPRINKLER SYSTEM)

REQUIRED SEPARATION OF OCCUPANCIES (PER IBC TABLE 508.4)
1 HR SEPARATION BETWEEN B AND A-3 OCCUPANCY

MEANS OF EGRESS

OCCUPANT LOAD CALCULATION BASED ON TABLE 1004.5 (IBC 2021)

BUILDING TYPE	NAME	AREA	LOAD FACTOR	OCCUPANCY LOAD
A-3	TRAINING 01	1153 SF	15 SF	77
	STORAGE 01	185 SF	300 SF	1
	TRAINING 02	1158 SF	15 SF	78
	STORAGE 02	182 SF	300 SF	1
	TRAINING 03	1136 SF	15 SF	76
	STORAGE 03	181 SF	300 SF	1
	GROUP A-3 OCCUPANT LOAD =			**234**
B	LOBBY/WAITING	581 SF	150 SF	4
	RECEPTION	140 SF	150 SF	1
	LOBBY/DISPLAY	1046 SF	150 SF	7
	GALLERY	1271 SF	150 SF	9
	CONFERENCE	340 SF	15 SF	23
	BREAKOUT	138 SF	15 SF	10
	WORK/COPY	136 SF	150 SF	1
	STORAGE	80 SF	300 SF	1
	CATERING/KITCHEN	357 SF	200 SF	2
	DRY STORAGE	51 SF	300 SF	1
	FREEZER	53 SF	300 SF	1
	STAFF LOUNGE	125 SF	150 SF	1
	GENERAL STORAGE	162 SF	300 SF	1
	CHIEF'S OFFICE	273 SF	150 SF	2
	OFFICE	187 SF	150 SF	2
	OFFICE	187 SF	150 SF	2
	OFFICE	187 SF	150 SF	2
	OFFICE	187 SF	150SF	2
	OFFICE	187 SF	150 SF	2
	OFFICE	187 SF	150 SF	2
	MANAGER'S OFFICE	216 SF	150 SF	2
	JANITOR	50 SF	300 SF	1
	ELECTRICAL MAIN SER	141 SF	300 SF	1
	IT/AV EQUIP	132 SF	300 SF	1
	WARM ROOM/TRAINING	1463 SF	150 SF	10
	GROUP B OCCUPANT LOAD =			**91**
S-1	EMS STORAGE	174 SF	300 SF	1
	EQUIPMENT STORAGE	439 SF	300 SF	2
	MEZZANINE	1093 SF	300 SF	4
	GROUP S-1 OCCUPANT LOAD =			**7**
	TOTAL OCCUPANT LOAD (TABLE 1004.5) =			**332**

EXIT TRAVEL DISTANCE: (IBC 2021 TABLE 1017.2)
(A-3) 250 FT MAX (WITH SPRINKLER SYSTEM)
(B) 300 FT MAX (WITH SPRINKLER SYSTEM)
(S-1) 250 FT MAX (WITH SPRINKLER SYSTEM)

CORRIDOR RATING: (IBC 2021 TABLE 1020.2)
NOT REQUIRED WITH A (NFPA 13) SPRINKLER SYSTEM

DEAD END CORRIDOR: (IBC 2021 SECTION 1020.5)
(A-3) 20 FT MAX ALLOWED
(B,S-1) 50 FT MAX ALLOWED (WITH SPRINKLER SYSTEM)

EXIT REQUIREMENTS: (IBC 2021 TABLE 1006.3.3)
MINIMUM NUMBER OF EXITS: 2 REQUIRED
NUMBER OF EXITS PROVIDED IN BUILDING: 6 PROVIDED

MINIMUM PLUMBING FIXTURE COUNT (IPC 2021 - TABLE 403.1)

CLASSIFICATION		WATER CLOSETS	LAVATORIES	DRINKING FOUNTAIN
GROUP B		1 PER 25 FOR FIRST 50, 1 PER 50 FOR REMAINDER	1 PER 40 FOR FIRST 80, 1 PER 80 FOR REMAINDER	1 PER 100
	MALE:	46/25 = 2 W.C.	46/40= 2 LAV.	91/100= 1 D.F
	FEMALE:	46/25 = 2 W.C.	46/40 = 2 LAV.	
GROUP A-3		MALE: 1 PER 125 FEMALE: 1 PER 65	1 PER 200	1 PER 500
	MALE:	117/125 = 1 W.C.	117/200= 1 LAV.	234/500= 1 D.F
	FEMALE:	117/65 = 2 W.C.	117/200 = 1 LAV.	
GROUP S-1		1 PER 100	1 PER 100	1 PER 1000
	MALE:	4/100 = 1 W.C.	4/100= 1 LAV.	7/1000= 1 D.F
	FEMALE:	4/100 = 1 W.C.	4/100 = 1 LAV.	

PER IPC 2021 (SECTION 242.2), UP TO REQUIRED MALE WCS MAY BE SUBSTITUTED WITH 67% URINALS IN ASSEMBLY OCCUPANCY AND 50% IN ALL OTHER OCCUPANCIES.

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LIFE SAFETY PLAN

Project No. 23121
Sheet No. A104
Date 09/16/2025

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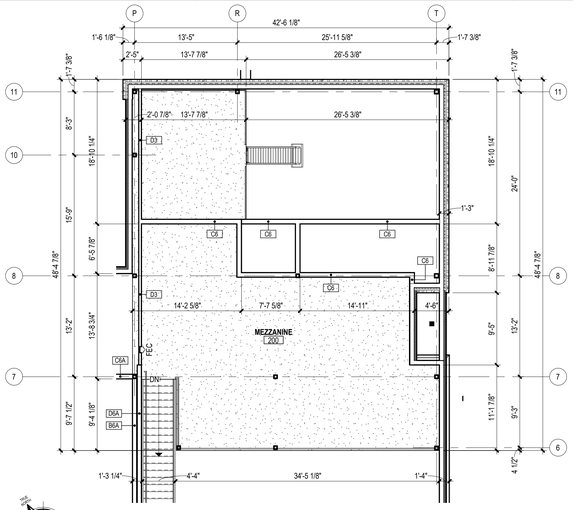
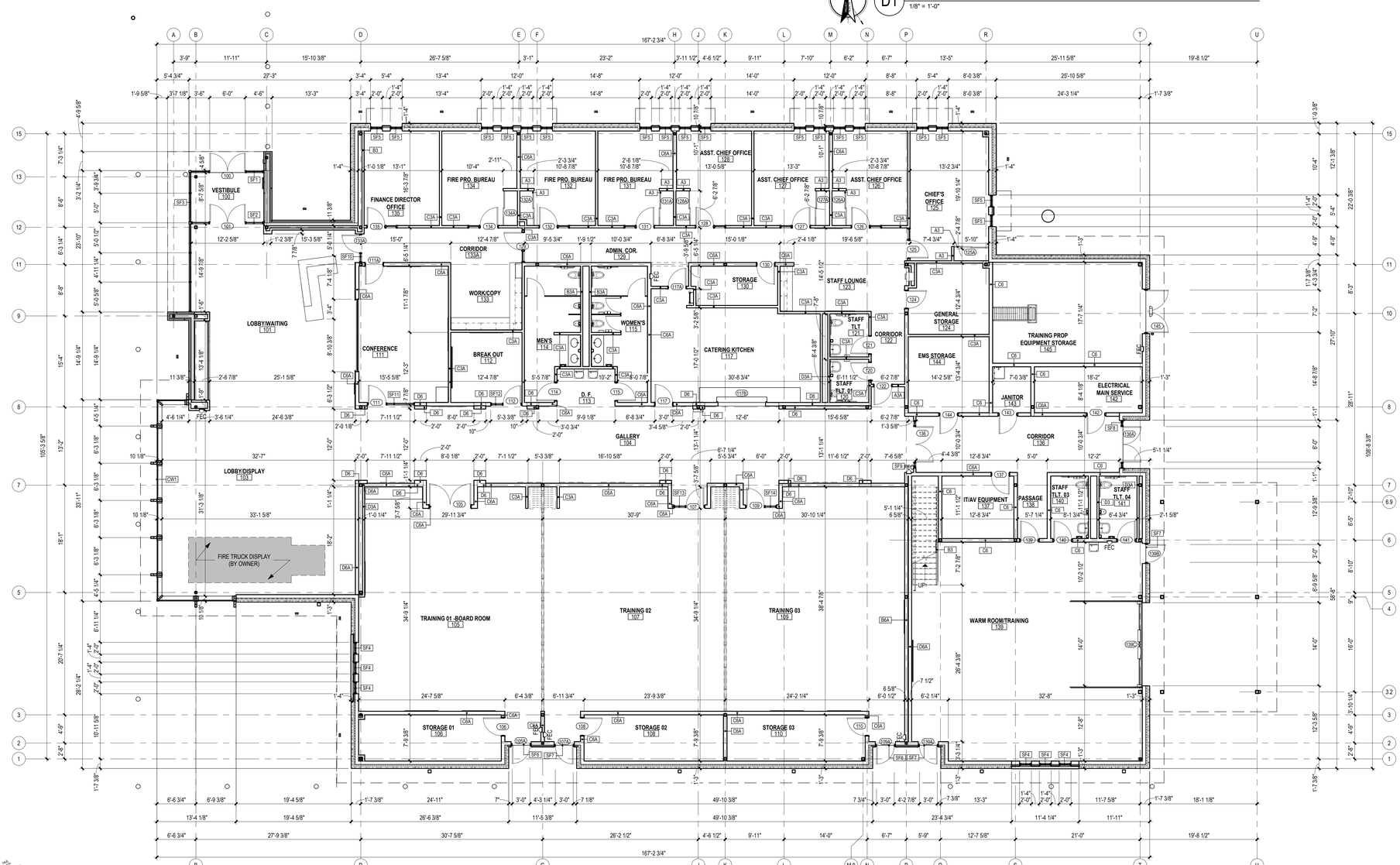


D1 DIMENSION FLOOR PLAN - MEZZANINE

1/8" = 1'-0"



A1 DIMENSION FLOOR PLAN

1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. REFERENCE GENERAL NOTES FOR ADDITIONAL APPLICABLE INFORMATION.
2. THE GENERAL CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS AND DIMENSIONS AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES THAT MAY AFFECT THE WORK PRIOR TO COMMENCING CONSTRUCTION.
3. ALL DIMENSIONS ARE TO THE FINISH FACE OF NEW PARTITIONS AND TO FINISH FACE OF EXISTING INTERIOR PARTITIONS AND PERIMETER WALLS TO REMAIN UNLESS NOTED OTHERWISE.
4. PATCH, LEVEL, AND/OR FEATHER THE EXISTING FLOOR SUCH THAT THE NEW FLOOR IS LEVEL AND ALL TRANSITIONS ARE LEVEL AND SMOOTH.
5. INSTALL REDUCER STRIPS BETWEEN DIFFERENT FLOOR FINISH LEVELS AND FINISHES AS REQUIRED.
6. THE GENERAL CONTRACTOR SHALL INSTALL REQUIRED WALL BLOCKING FOR ALL CASEWORK, SHELVING, AND EQUIPMENT. SEE DRAWINGS FOR EXACT LOCATIONS.
7. UNLESS NOTED OTHERWISE, ALL MATERIALS AND EQUIPMENT SHOWN ON THE DRAWINGS IS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
8. ALL INTERIOR DIMENSIONS ARE TO FINISHED FACE OF GYP. BD. UNLESS NOTED OTHERWISE.
9. ALL ITEMS TO BE RELOCATED AND REUSED ARE TO BE STORED BY THE CONTRACTOR UNTIL REINSTALLATION. PROTECT FROM DAMAGE THROUGHOUT CONSTRUCTION.
10. ALL BLOCKING SHALL BE FIRE TREATED.

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No.	Date	Revision

DIMENSION FLOOR PLAN

Project No. 23121

Sheet No. A111

Date 09/16/2025

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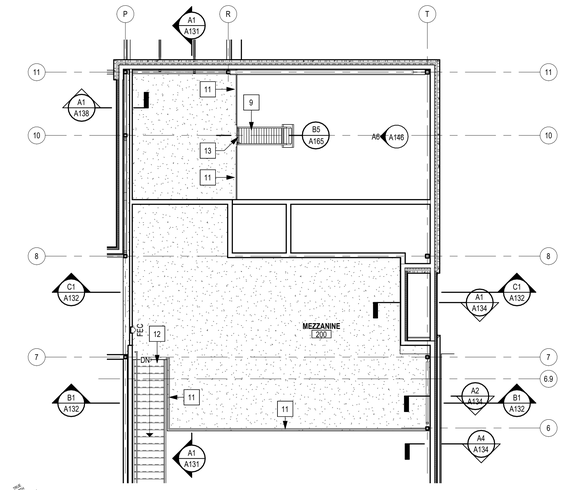
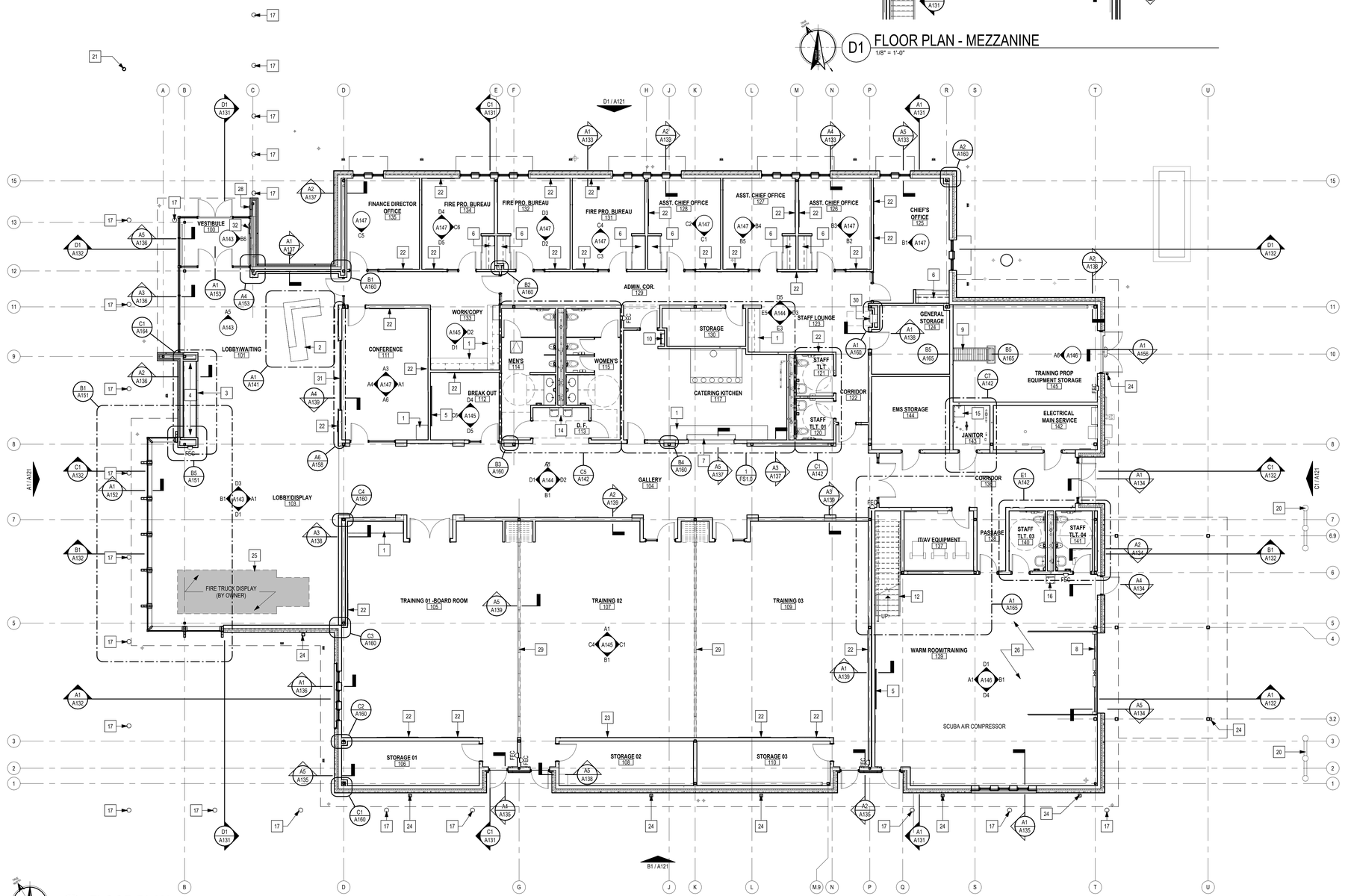
KEYED NOTES FLOOR PLAN

MARK	DESCRIPTION
1	BUILT-IN CASEWORK. SEE INTERIOR ELEVATIONS FOR DETAILS.
2	RECEPTION COUNTER. SEE SHEET A141 FOR DETAILS.
3	CUSTOM DISPLAY CASE: GLASS FRONT WITH LOCKING GLASS DOORS, LAMINATE INTERIOR. SEE INTERIOR ELEVATIONS AND DETAILS FOR ADDITIONAL INFORMATION.
4	DISPLAY CASE INTERIOR: PROVIDE AND INSTALL AIRCRAFT CABLE DISPLAY WITH ADJUSTABLE GLASS SHELVES. SEE FINISH FLOOR PLAN FOR ADDITIONAL DETAILS.
5	WALL MOUNTED MARKER BOARD, TYP.
6	CLOSET WITH CASEWORK AND HANGER ROD, SEE INTERIOR ELEVATIONS AND FINISH SCHEDULE.
7	COILING COUNTER DOOR. SEE DOOR SCHEDULE FOR DETAILS.
8	OVERHEAD DOOR. SEE DOOR SCHEDULE FOR DETAILS.
9	ALUM SHIP LADDER. BASIS OF DESIGN O'KEEFFES MODEL 520A. SEE DETAILS.
10	PRIMED AND PAINTED PREFABRICATED VERTICAL METAL LADDER. SEE APPLICABLE DETAILS.
11	TYPICAL PIPE RAILING, SEE SHEET A165 FOR DETAILS.
12	STAIR TO MEZZANINE, SEE SHEET #A165 FOR MORE DETAILS.
13	PARALLEL MOUNTED ALUM SELF-CLOSING SAFETY GATE.
14	HIGH-LOW DRINKING FOUNTAINS WITH BOTTLE FILLERS. SEE PLUMBING AND ELECTRICAL DWGS.
15	MOP SINK W/ MOP AND BROOM HOLDER, SEE PLUMBING DWGS.
16	DRINKING FOUNTAIN WITH BOTTLE FILLER. SEE PLUMBING AND ELECTRICAL DWGS.
17	EXTERIOR LIGHT BOLLARD, SEE ELECTRICAL DWGS AND SPECS.
18	EXTERIOR CONCRETE BENCH, PROVIDED BY FURNITURE VENDOR.
19	GEOLAM HYBRID ALUMINUM/WPC SOLEO 6031, SEE SPECS FOR COLOR: TYP.
20	TRIPLE POST ANCHOR, SEE ARCHITECTURAL SITE PLAN FOR DIMS, AND STRUCTURAL DWGS FOR DETAILS.
21	EXTERIOR FLAG POLE, SEE ARCHITECTURAL SITE PLAN/DETAILS.
22	PROVIDE BLOCKING AT ALL MONITOR LOCATIONS, TYP.
23	PROVIDE BLOCKING FOR VIDEO WALL, SEE CONSULTANTS DWGS.
24	ROOF DRAINAGE DOWNSPOUT, SEE ROOF PLAN.
25	FIRE TRUCK (PROVIDED BY OWNER).
26	IMPACT DRYWALL UP TO 4'-0" AT WARM ROOM WALLS.
27	EXPOSED COLUMN, SEE STRUCTURAL DWGS.
28	KNOX BOX LOCATION.
29	OPERABLE PARTITION, SEE APPLICABLE DETAILS.
30	BOTTLE FILLER. SEE PLUMBING AND ELECTRICAL DWGS.
31	1/2" TEMP. GLASS W/ ACID ETCHED ON ONE SIDE. SEE WALL SECTIONS & INT. ELEVATIONS.
32	43" VERTICAL MONITOR RECESSED INTO MCM PANEL. SEE ELEVATIONS FOR DETAILS.



D1 FLOOR PLAN - MEZZANINE
1/8" = 1'-0"



A1 FLOOR PLAN
1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. REFERENCE GENERAL NOTES FOR ADDITIONAL APPLICABLE INFORMATION.
2. THE GENERAL CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS AND DIMENSIONS AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES THAT MAY AFFECT THE WORK PRIOR TO COMMENCING CONSTRUCTION.
3. ALL DIMENSIONS ARE TO THE FINISH FACE OF NEW PARTITIONS AND TO FINISH FACE OF EXISTING INTERIOR PARTITIONS AND PERIMETER WALLS TO REMAIN UNLESS NOTED OTHERWISE.
4. PATCH, LEVEL, AND/OR FEATHER THE EXISTING FLOOR SUCH THAT THE NEW FLOOR IS LEVEL AND ALL TRANSITIONS ARE LEVEL AND SMOOTH.
5. INSTALL REDUCER STRIPS BETWEEN DIFFERENT FLOOR FINISH LEVELS AND FINISHES AS REQUIRED.
6. THE GENERAL CONTRACTOR SHALL INSTALL REQUIRED WALL BLOCKING FOR ALL CASEWORK, SHELVING, AND EQUIPMENT. SEE DRAWINGS FOR EXACT LOCATIONS.
7. UNLESS NOTED OTHERWISE, ALL MATERIALS AND EQUIPMENT SHOWN ON THE DRAWINGS IS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
8. ALL INTERIOR DIMENSIONS ARE TO FINISHED FACE OF GYP. BD. UNLESS NOTED OTHERWISE.
9. ALL ITEMS TO BE RELOCATED AND REUSED ARE TO BE STORED BY THE CONTRACTOR UNTIL REINSTALLATION. PROTECT FROM DAMAGE THROUGHOUT CONSTRUCTION.
10. ALL BLOCKING SHALL BE FIRE TREATED.

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No.	Date	Revision

FLOOR PLAN

Project No. 23121

Sheet No. A112

Date 09/16/2025

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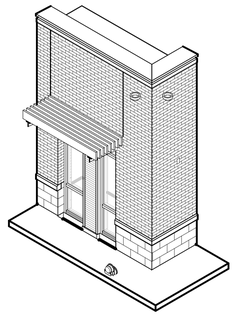
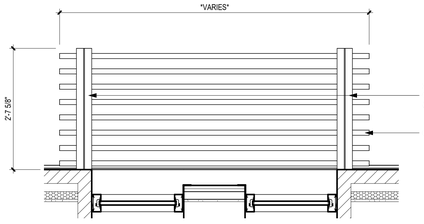
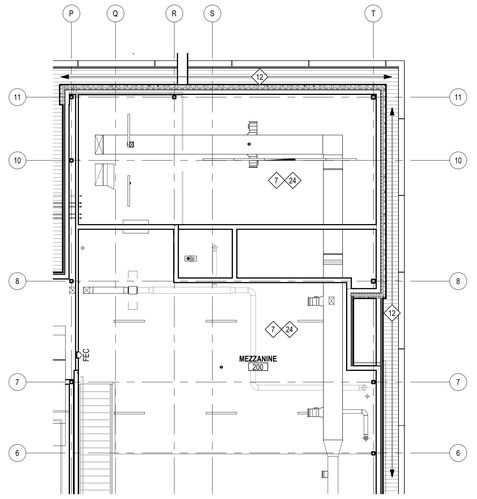


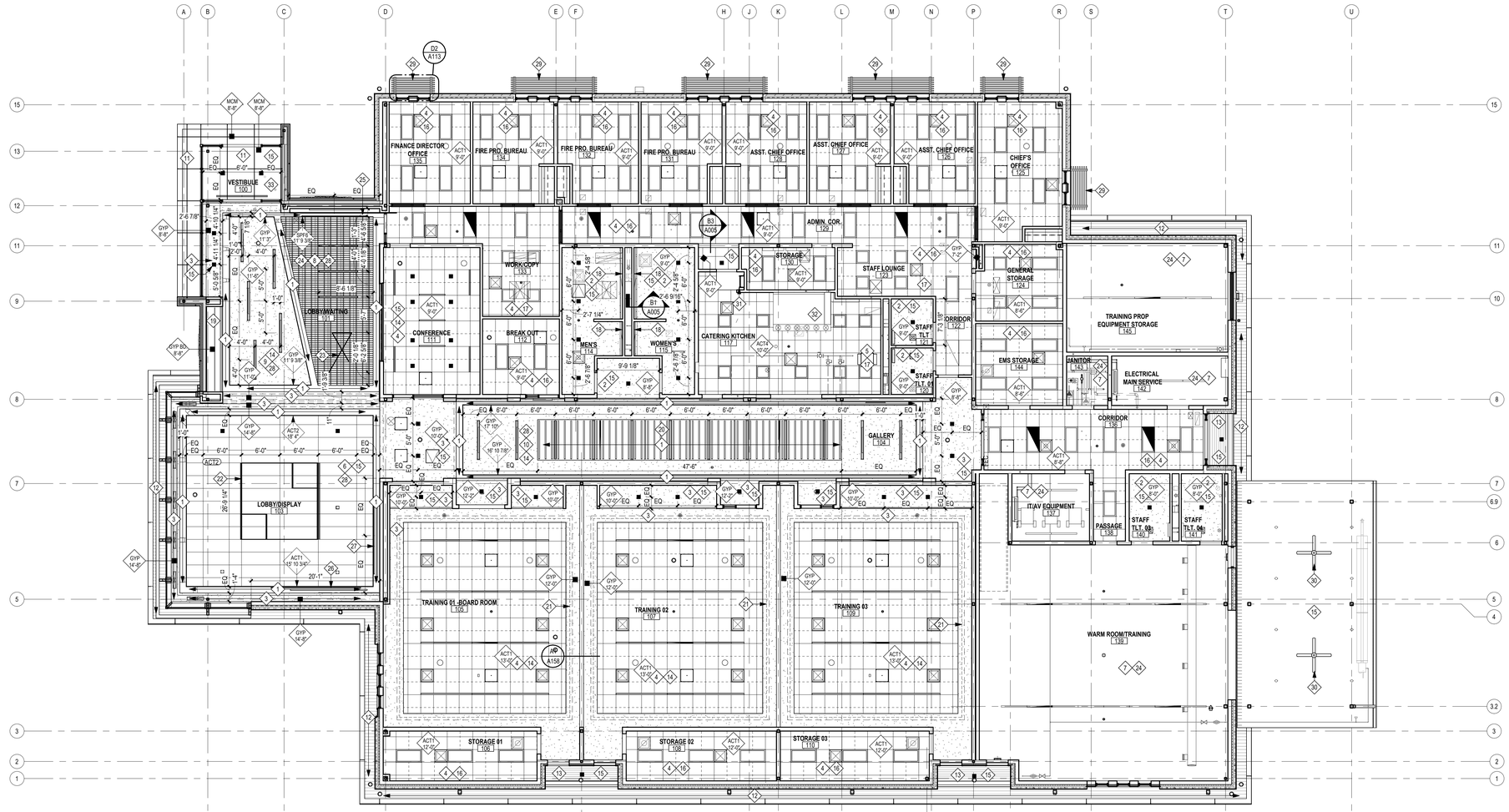
D1 3D SUN SCREEN



D2 ENLARGED RCP - SUN SCREEN
3/4" = 1'-0"



D4 REFLECTED CEILING PLAN - MEZZANINE
1/8" = 1'-0"



A1 REFLECTED CEILING PLAN
1/8" = 1'-0"

KEYED NOTES RCP

MARK	DESCRIPTION
1	EXPOSED CEILING, PAINT EVERYTHING VISIBLE ABOVE THE CLOUD BLACK.
2	GYP BOARD CEILINGS IN RESTROOM. PAINT EPOXY WHITE.
3	GYP. BOARD CEILING, PAINT P3. -SEE FINISH SCHEDULE.
4	2X4 2ND LOOK LAY-IN CEILING, SEE FINISH SCHEDULE.
5	2X2 2ND LOOK LAY-IN CEILING -SEE FINISH SCHEDULE.
6	2'X6' SUSPENDED ACOUSTICAL CLOUD CEILING TO BE PARALLEL WITH STRUCTURE ABOVE. -SEE CEILING DETAILS & FINISH SCHEDULE
7	EXPOSED CEILING, PAINT WHITE (P8).
8	WOOD CEILING CLOUD GRILLE SUPPORTED BY BLACK GRID, ATTACHED TO DECK. CEILING TO BE PARALLEL WITH STRUCTURE AND 9" BELOW ADJACENT GYP. CEILING. -SEE FINISH SCHEDULE FOR SPECS.
9	GYP. BD. CEILING TO BE PARALLEL WITH STRUCTURE ABOVE. -SEE FINISH SCHEDULE
10	GYP. BD. CEILING TO BE PARALLEL WITH STRUCTURE ABOVE., PAINT P3. -SEE FINISH SCHEDULE.
11	RED MCM CEILING WITH REVEALS TO MATCH VESTIBULE WALLS.
12	6"Y LONGBOARD TONGUE & GROOVE EXTERIOR SOFFIT LIGHT BAMBOO. SEE EXTERIOR ELEVATIONS MTLS. LEGEND & APPLICABLE DETAILS.
13	TBD CONCEALED FASTENED METAL WALL PANEL (MTL-03). -SEE EXT. BLDG. MTLS. LEGEND.
14	RECESSED LINEAR LIGHT FIXTURE. -SEE ELECTRICAL FOR FIXTURE SPECS.
15	RECESSED SQUARE HALO LIGHT. -SEE ELECTRICAL FOR FIXTURE SPECS.
16	2X4 LIGHT TROFFER, SEE ELECTRICAL FOR FIXTURE SPECS.
17	2X2 LIGHT TROFFER, SEE ELECTRICAL FOR FIXTURE SPECS.
18	RECESSED LIGHT COVE FIXTURE AT WET WALL. -SEE ELECTRICAL FOR FIXTURE SPECS.
19	RECESSED CHANNEL LIGHT AT DISPLAY CASE. SEE ELECTRICAL FOR FIXTURE SPECS.
20	6" WIDE ACOUSTICAL CEILING BLADES, B.O. BLADE TO ALIGN WITH B.O. OF PERIMETER GYP. BOARD CEILING. (ACT3)
21	CONTINUOUS COVE LED LIGHT. -SEE APPLICABLE DETAILS.
22	DECORATIVE PENDANT LIGHT. B.O. @ 13'-3" A.F.F. SEE ELECTRICAL DWGS.
23	DECORATIVE PENDANT LIGHT. B.O. @ 9'-6" A.F.F. SEE ELECTRICAL DWGS.
24	SUSPENDED LINEAR LIGHT FIXTURE, SEE ELECTRICAL FOR FIXTURE SPECS.
25	10' LINEAR SUSPENDED WALL WASH LIGHT, BOTTOM OF LIGHT TO ALIGN WITH FACE OF CEILING. DIRECTED TO WALL GRAPHIC ON ADJACENT WALL.
26	14' LINEAR SUSPENDED WALL WASH LIGHT, BOTTOM OF LIGHT TO ALIGN WITH FACE OF CEILING. DIRECTED TO WALL GRAPHIC.
27	12' LINEAR SUSPENDED WALL WASH LIGHT W/ NO SLOPE & HANGS NO LOWER THAN ADJACENT CEILING. DIRECTED TO WALL GRAPHIC. SEE SPECS.
28	4" AXIUM TRIM AROUND PERIMETER OF CLOUD.
29	GEOLAM SUN SCREEN, SEE APPLICABLE DETAILS.
30	CEILING FAN ATTACHED TO STRUCTURE. SEE ELECTRICAL DWGS.
31	OPENING THROUGH CEILING FOR ROOF TOP ACCESS.
32	NO CEILING ABOVE KITCHEN HOOD.
33	LIGHT FIXTURES TRIM TO MATCH RED METAL PANEL.

REF. CLG. PLAN GENERAL NOTES

1. INSTALL ACOUSTIC SOUND BATT INSULATION OVER ALL PARTITIONS ABOVE CEILING TO 24" EA. SIDE OF PARTITION, TYP.
2. SEE INTERIOR ELEVATIONS FOR LOCATIONS OF UNDERCABINET LIGHT FIXTURES.
3. LIGHT FIXTURES, EXIT SIGNS, FIRE STROBES/CHIMES, ETC. TO MATCH BUILDING STANDARD UNLESS NOTED OTHERWISE.
4. NO COMBUSTIBLE MATERIAL SHALL BE INSTALLED IN A RETURN AIR PLENUM.
5. ALL CEILING, BULKHEAD, AND SOFFIT HEIGHTS ARE TAKEN FROM REFERENCED FINISH FLOOR.
6. PAINT ALL GYPSUM BOARD SOFFITS AND CEILINGS. REFERENCE REFLECTED CEILING PLAN.
7. ALL FLOATING "CLOUD" CEILINGS ARE TO BE HUNG WITH AIRCRAFT CABLE (NO EXCEPTIONS) IF APPLICABLE TO THIS PROJECT.
8. SUPPLY AND INSTALL SOUND BOOTS ON ALL DIFFUSERS OPEN TO THE CEILING PLENUM, TYP.
9. SHOULD ANY CONFLICT ARISE BETWEEN MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION SYSTEMS, REQUEST CLARIFICATION FROM ARCHITECT PRIOR TO INSTALLATION.
10. REFERENCE MECHANICAL DRAWINGS FOR BALANCE OF MECHANICAL INFORMATION (i.e. SUPPLY DIFFUSERS, RETURN AIR GRILLES, ETC.).
11. REFERENCE ELECTRICAL DRAWINGS FOR BALANCE OF LIGHTING INFORMATION. NOTE: ALL FIXTURES LOCATED IN LAY-IN ACOUSTICAL PANELS SHALL BE CENTERED IN CEILING PANELS UNLESS NOTED OTHERWISE.
12. WHERE SPRINKLER SYSTEMS ARE USED PROVIDE CONCEALED WHITE SPRINKLERS AT ALL GYPSUM BOARD CEILINGS AND SOFFITS UNLESS NOTED OTHERWISE
13. WHERE SPRINKLERS ARE USED, REFERENCE FIRE PROTECTION DRAWINGS FOR LOCATION OF SPRINKLER HEADS. THIS DRAWING IS FOR COORDINATION CONCEPTS ONLY. **NOTE**: ALL SPRINKLER HEADS LOCATED IN LAY-IN ACOUSTICAL PANELS SHALL BE CENTERED IN CEILING PANELS UNLESS NOTED OTHERWISE.
14. MECHANICAL DESIGN-BUILD CONTRACTOR TO REWORK EXISTING/INSTALL NEW SYSTEM AND DIFFUSERS AS REQUIRED TO PROVIDE PROPER CONDITIONING OF THE NEW PLAN. RESEARCH EXISTING CONDITIONS AND VERIFY WORK REQUIRED. INSTALL DAMPERS AT ANY FIRE RATED ASSEMBLIES TO MATCH EXISTING.
15. ELECTRICAL DESIGN-BUILD CONTRACTOR TO PROVIDE AND INSTALL EMERGENCY LIGHTS OR WIRE CEILING LIGHT FIXTURES FOR EMERGENCY TO PROVIDE THE REQUIRED LIGHT LEVELS PER GOVERNING CODES.
16. ELECTRICAL DESIGN-BUILD CONTRACTOR RESPONSIBLE FOR DEVELOPING LIGHT LEVEL CALCULATIONS AND PROVIDE TO LOCAL OFFICIALS IF REQUIRED.
17. ELECTRICAL DESIGN-BUILD CONTRACTOR TO PROVIDE AND INSTALL SMOKE DETECTORS AS REQUIRED BY GOVERNING CODES AND A.H.J. SMOKE DETECTORS SHALL BE TIED TO BUILDING ALARM SYSTEM IF ALARM SYSTEM PRESENT. VERIFY WORK REQUIRED.
18. ELECTRICAL DESIGN-BUILD CONTRACTOR TO PROVIDE AND INSTALL FIRE STROBES THROUGHOUT AREA OF WORK AND TIED INTO BUILDING ALARM SYSTEM WHERE REQUIRED BY GOVERNING CODES AND A.H.J. INSTALL CHIMES AT LOCATIONS IN CORRIDORS, ETC. TO PROVIDE REQUIRED DECIBEL LEVEL PER GOVERNING CODES. VERIFY WORK REQUIRED.

LIGHT FIXTURE GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR ALL MISCELLANEOUS HARDWARE, CLIPS, ANGLES, FRAMES, ETC. AS REQUIRED TO MOUNT THE FIXTURES IN OR ON THE SURFACES THEY ARE TO BE INSTALLED.
2. REFER TO ARCHITECTURAL DOCUMENTS FOR EXACT MOUNTING LOCATIONS OF LIGHT FIXTURES.
3. WHEN INSTALLING LIGHT FIXTURES THE CONTRACTOR SHALL USE THE LIGHT FIXTURE MANUFACTURER'S MOUNTING HARDWARE AND FOLLOW ALL MANUFACTURER INSTALLATION DIRECTIONS.
4. ALL RECESSED DOWNLIGHTS MUST BE INSTALLED SO THAT THE BOTTOM OF THE THROAT IS EVEN WITH THE FINISHED CEILING PLANE UNLESS NOTED OTHERWISE. THE OVERLAPPING FLANGE MUST FIT FLUSH TO THE CEILING PLANE/THROAT. NO LIGHT LEAK MAY BE VISIBLE. ALL MISCELLANEOUS HARDWARE ABOVE THE CEILING PLANE TO ACCOMPLISH THE ABOVE SHALL BE INCLUDED IN THE BASE BID.
5. ALL RECESSED DOWNLIGHTS SHALL HAVE SELF-FLANGED REFLECTORS UNLESS NOTED OTHERWISE.
6. ALL LIGHT FIXTURES SHALL HAVE A U.L. LABEL.
7. WHEN INSTALLING COMPACT FLUORESCENT LAMP LUMINARIES, CONSISTENT LAMP ORIENTATION SHALL BE MAINTAINED IN A CONTIGUOUS AREA.

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No.	Revision	Date

REFLECTED CEILING PLAN

Project No. 23121

Sheet No. A113

Date 09/16/2025

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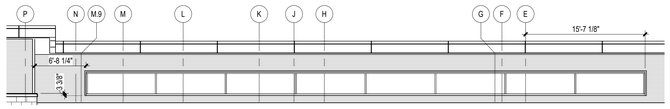
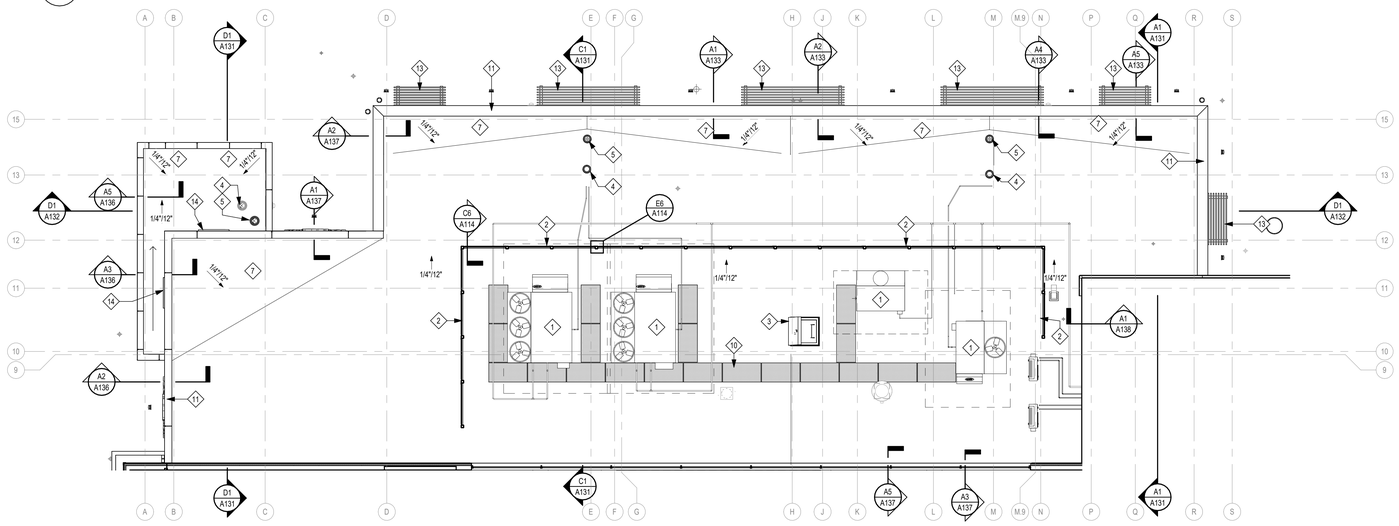
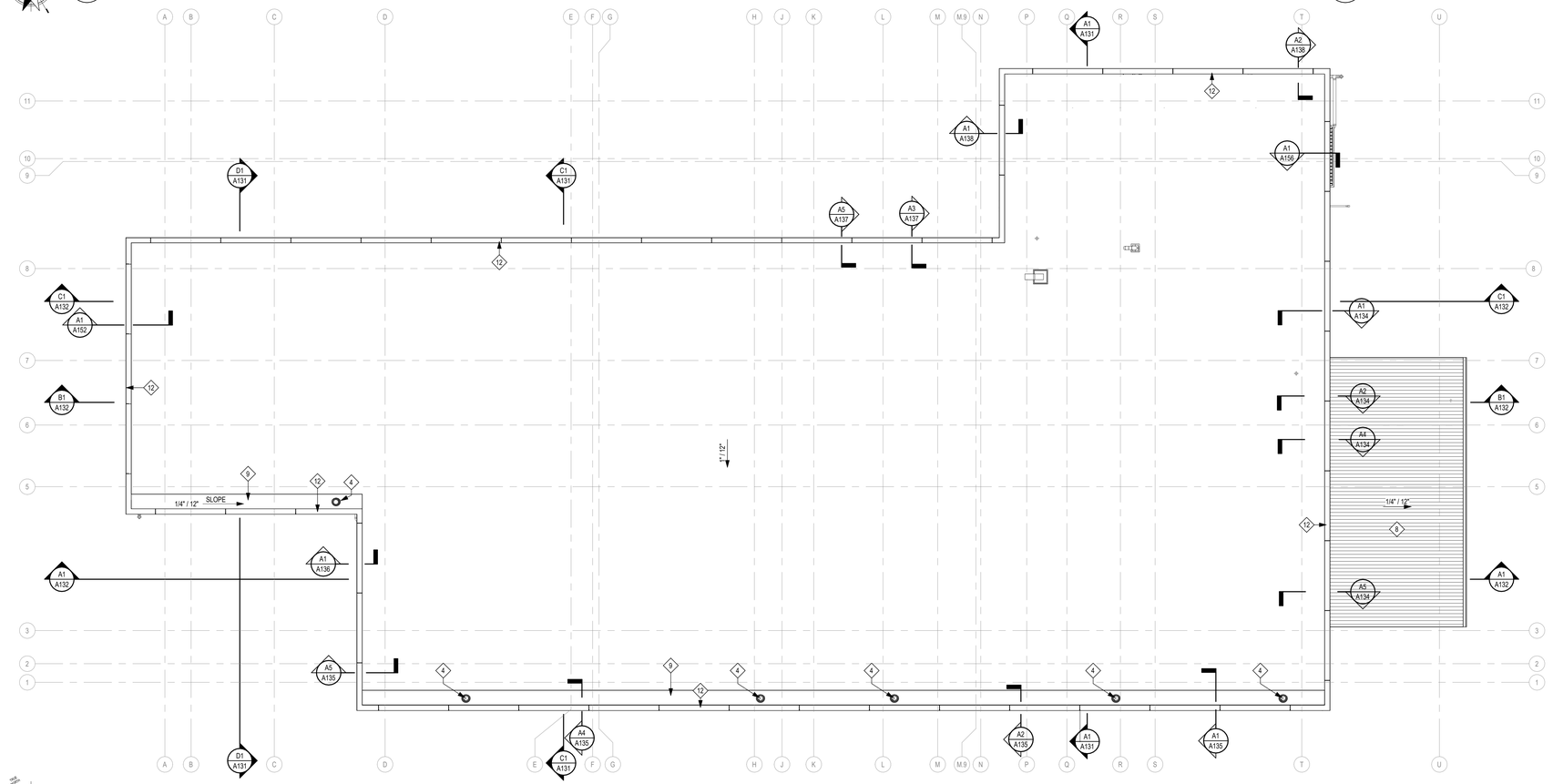


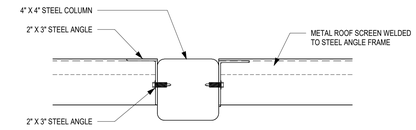
E1 ELEVATION @ CLERESTORY FROM ROOF LEVEL
1/8" = 1'-0"



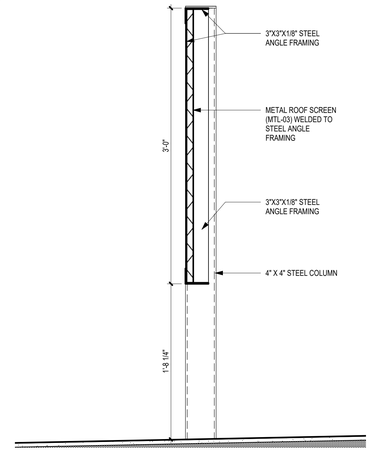
C1 ROOF PLAN - A
1/8" = 1'-0"



A1 ROOF PLAN - B
1/8" = 1'-0"



E6 ROOF SCREEN SUPPORT
3" = 1'-0"



C6 SECTION AT ROOF SCREEN
1 1/2" = 1'-0"

KEYED NOTES ROOF PLAN

MARK	DESCRIPTION
1	ROOF TOP UNIT, SEE MECHANICAL DWGS.
2	METAL ROOF SCREEN (MTL-03) WELDED TO STEEL ANGLE FRAMING. CONTRACTOR TO VERIFY THAT THE MECHANICAL SCREEN IS MIN OF 4" ABOVE THE RTU. NOTIFY ARCHITECT IF LOWER.
3	ROOF HATCH. SEE ROOFING DETAILS.
4	OVER FLOW ROOF DRAIN. SEE PLUMBING DWGS.
5	ROOF DRAIN. SEE PLUMBING DWGS.
6	CANOPY GUTTER, SEE APPLICABLE DETAILS.
7	ROOF DRAINAGE CRICKET, SEE DETAILS.
8	1 1/2" METAL ROOF DECK. SEE STRUCTURAL DWGS.
9	LOWERED ROOF, 1/2" COVERBOARD OVER METAL DECK. SEE WALL SECTIONS & DETAILS.
10	TPO ROOF WALKWAY PAD. SEE ROOFING DETAILS.
11	PREFABRICATED CREATIVE DESIGN REVEAL METAL COPING (MTL-01) W/ CONT. CLEAT BY METAL-ERA. SEE ROOFING DETAILS.
12	MICA MNC CLEAR MCM PANEL (MCM-02). SEE ELEVATIONS & DETAILS.
13	GEOLAM SUN SHADE. SEE APPLICABLE DETAILS & SPECS.
14	EXTERIOR LINEAR WALL LIGHT, SEE ELEC. DWGS.

ROOF PLAN GENERAL NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL PENETRATIONS WITH ALL MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT AND TRADES.
2. CONTRACTOR SHALL COORDINATE LOCATION OF DOWNSPOUTS WITH CIVIL PLANS.
3. IN THE EVENT OF CONFLICT, ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER CIVIL DRAWINGS FOR LOCATION AND QUANTITY OF DOWNSPOUTS.
4. REFER TO STRUCTURAL DRAWINGS FOR MINIMUM ROOF SHEATHING REQUIREMENTS.
5. SEE APPLICABLE UL ASSEMBLIES AS DESCRIBED ELSEWHERE IN THESE DRAWINGS FOR REQUIREMENTS DESCRIBED THEREIN. UL REQUIREMENTS OR DETAILING SHALL TAKE PRECEDENCE SHOULD ANY DISCREPANCIES ARISE.
6. GENERAL CONTRACTOR SHALL ENSURE DESIGN VENTILATION REQUIREMENT DESCRIBED HEREIN TO BE MET IF SUBSTITUTIONS OF MATERIAL TYPES AND QUANTITIES ARE SUBMITTED AND APPROVED BY THE ARCHITECT. GC ASSUMES RESPONSIBILITY FOR TYPE, LOCATION, ARRANGEMENT AND QUANTITIES FOR MEETING THESE REQUIREMENTS.
7. SEE REFLECTED CEILING PLAN FOR EXTENT OF SOFFIT AREAS. GC TO PROVIDE LAYOUT OF SOFFIT AREA FOR INTAKE AIR, SIZED AND EQUALLY DISTRIBUTED PER CALCULATIONS DESCRIBED ELSEWHERE IN THESE DOCUMENTS. PLUMBING AND FIRE PROTECTION SYSTEMS, REQUEST CLARIFICATION FROM ARCHITECT PRIOR TO INSTALLATION.

ROOF DRAINAGE CALCULATIONS

SMALL GUTTER
R = RAINFALL INTENSITY = 4.0" PER HOUR
A = ROOF AREA = 1,340 SF
GPM = R x A x 0.0104 (EQUATION 11-1)
4.0 x 1,340 x 0.0104 =56 GPM

D = DOWNSPOUT = 1
GPM/D = GPM PER DOWNSPOUT
56/1 = 56 GPM

DOWNSPOUT SIZE = 6" X 6"

LARGE GUTTER
R = RAINFALL INTENSITY = 4.0" PER HOUR
A = ROOF AREA = 10,584SF
GPM = R x A x 0.0104 (EQUATION 11-1)
4.0 x 10,584 x 0.0104 =440 GPM

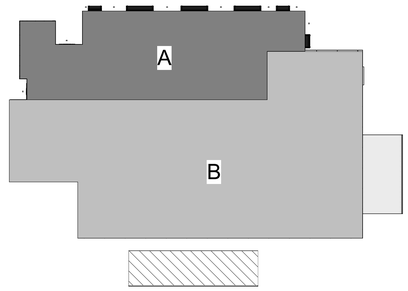
D = DOWNSPOUT = 5
GPM/D = GPM PER DOWNSPOUT
440/5 = 88 GPM

DOWNSPOUT SIZE = 6" X 6"

METAL DECK CANOPY GUTTER
R = RAINFALL INTENSITY = 4.0" PER HOUR
A = ROOF AREA = 821SF
GPM = R x A x 0.0104 (EQUATION 11-1)
4.0 x 821 x 0.0104 =34 GPM

D = DOWNSPOUT = 1
GPM/D = GPM PER DOWNSPOUT
34/1 = 34 GPM

DOWNSPOUT SIZE = 3" X 3"



A6 LEGEND - ROOF
1" = 30'-0"

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No.	Revision	Date

ROOF PLAN

Project No. 23121

Sheet No. A114

Date 09/16/2025

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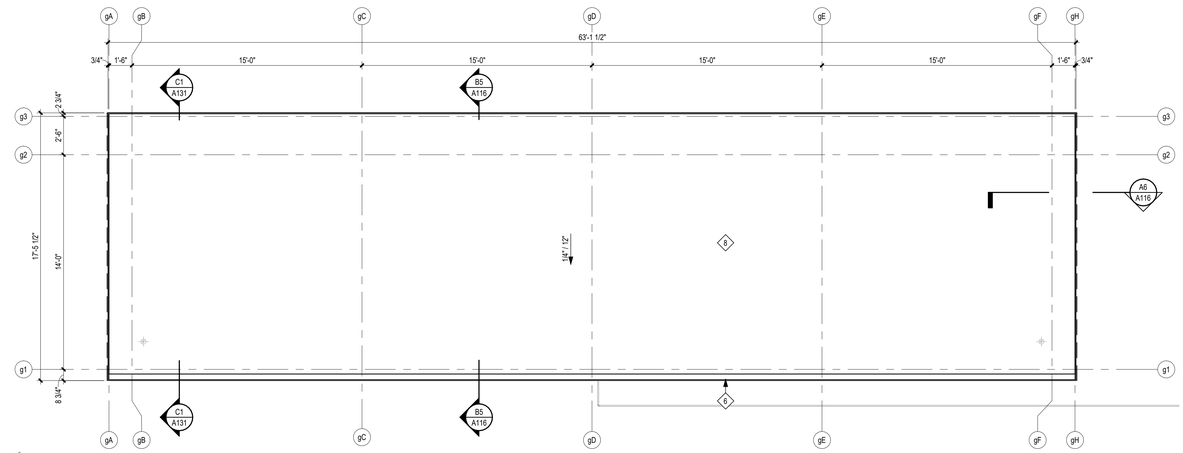
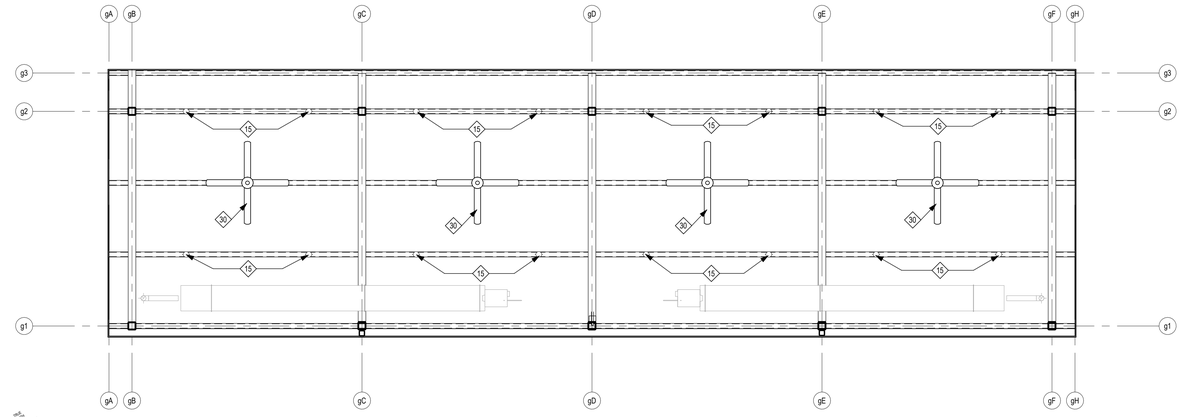
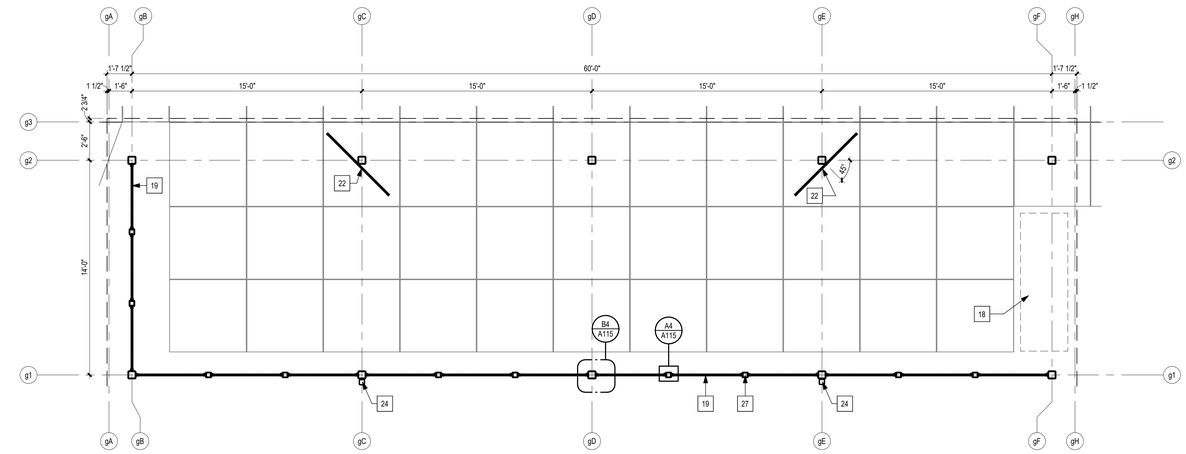


D1 ROOF PLAN - COVERED PATIO
1/4" = 1'-0"



B1 REFLECTED CEILING PLAN - COVERED PATIO
1/4" = 1'-0"



A1 FLOOR PLAN - COVERED PATIO
1/4" = 1'-0"

ROOF DRAINAGE CALCULATIONS

SMALL GUTTER
R = RAINFALL INTENSITY = 4.0" PER HOUR
A = ROOF AREA = 1,069 SF
GPM = R x A x 0.0104 (EQUATION 11-1)
4.0 x 1,340 x 0.0104 =44 GPM

D = DOWNSPOUT = 2
GPM/D = GPM PER DOWNSPOUT
44/2 = 22 GPM

DOWNSPOUT SIZE = 6" X 6"

KEYED NOTES ROOF PLAN CP

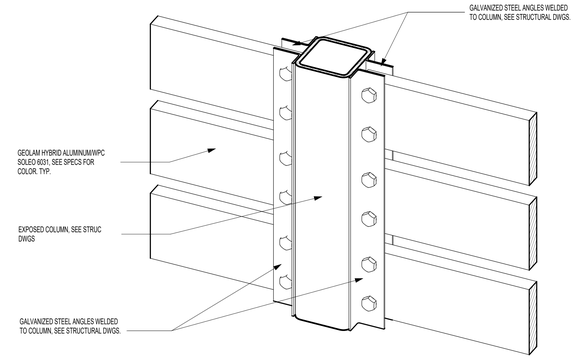
MARK	DESCRIPTION
6	CANOPY GUTTER, SEE APPLICABLE DETAILS.
8	1 1/2" METAL ROOF DECK, SEE STRUCTURAL DWGS.

KEYED NOTES RCP CP

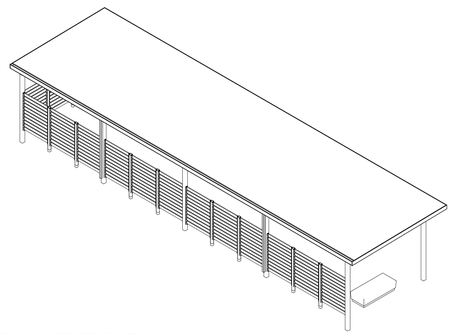
MARK	DESCRIPTION
15	RECESSED SQUARE HALO LIGHT. -SEE ELECTRICAL FOR FIXTURE SPECS.
30	CEILING FAN ATTACHED TO STRUCTURE. SEE ELECTRICAL DWGS.

KEYED NOTES FLOOR PLAN CP

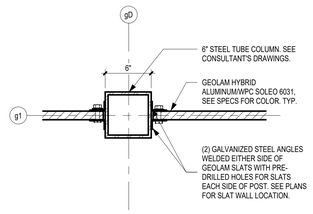
MARK	DESCRIPTION
18	EXTERIOR CONCRETE BENCH, PROVIDED BY FURNITURE VENDOR.
19	GEOLAM HYBRID ALUMINUM/WPC SOLEO 6031, SEE SPECS FOR COLOR. TYP
22	PROVIDE BLOCKING AT ALL MONITOR LOCATIONS, TYP.
24	ROOF DRAINAGE DOWNSPOUT, SEE ROOF PLAN.
27	EXPOSED COLUMN, SEE STRUCTURAL DWGS.



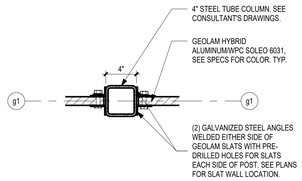
C6 GEOLAM FENCE 3D



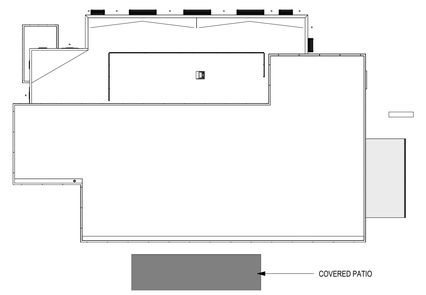
B6 3D COVERED PATIO



B4 CANOPY - 6" COLUMN/SLAT DETAIL
1 1/2" = 1'-0"



A4 CANOPY - 4" COLUMN/SLAT DETAIL
1 1/2" = 1'-0"



KEY PLAN

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Proposed:
CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE
ST. PETERS, MO 63376
360/340 ECOLOGY DRIVE

No.	Date	Revision

COVERED PATIO

Project No.
23121

Sheet No.
A115

Date
09/16/2025

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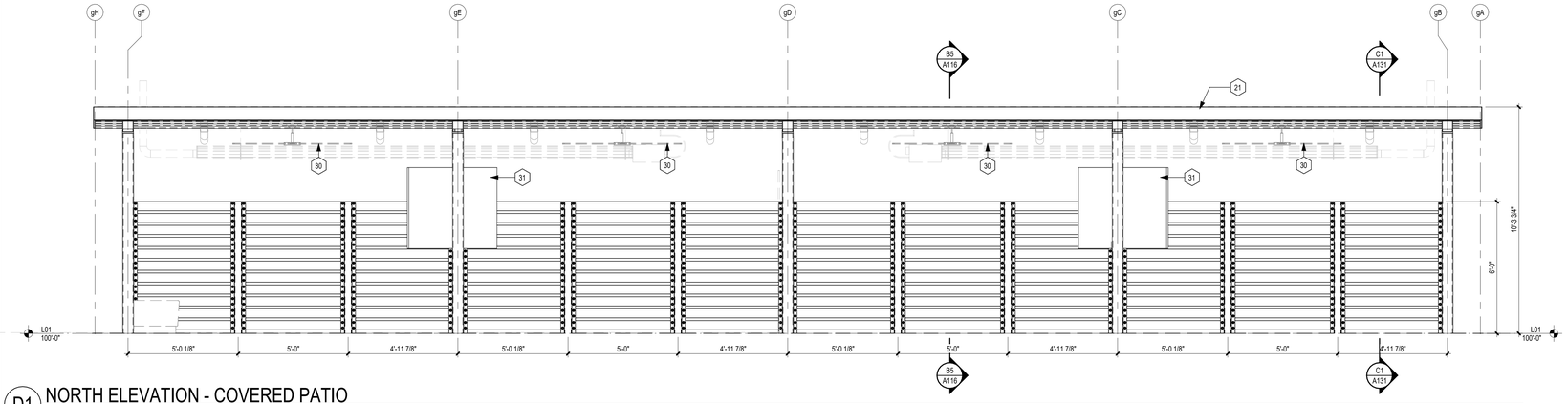
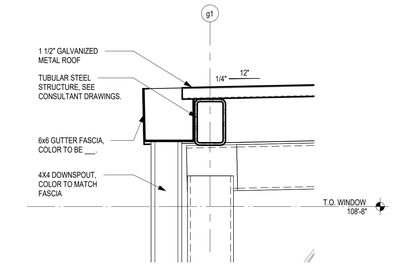
KEYED NOTES EXTERIOR ELEV. CP

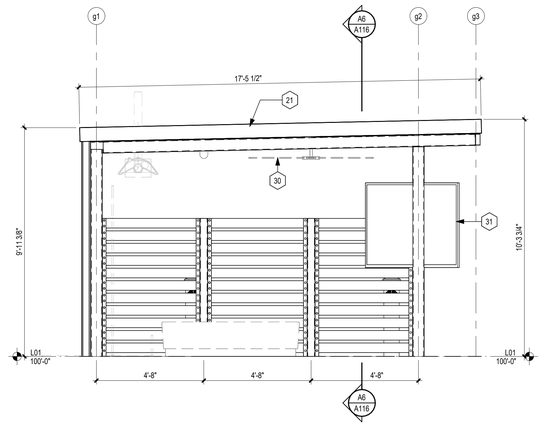
MARK	DESCRIPTION
21	1 1/2" METAL ROOF DECK, SEE ROOF PLAN & STRUCTURAL DWGS.
30	CEILING FAN ATTACHED TO STRUCTURE, SEE ELECTRICAL DWGS.
31	EXTERIOR MONITOR SECURED WITH CLAMP ATTACHED AROUND COLUMN.



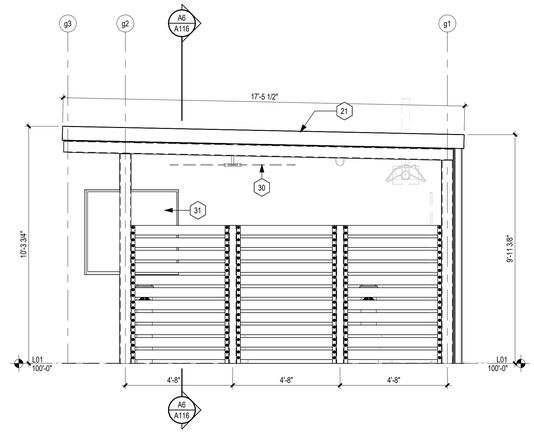
D1 NORTH ELEVATION - COVERED PATIO
3/8" = 1'-0"



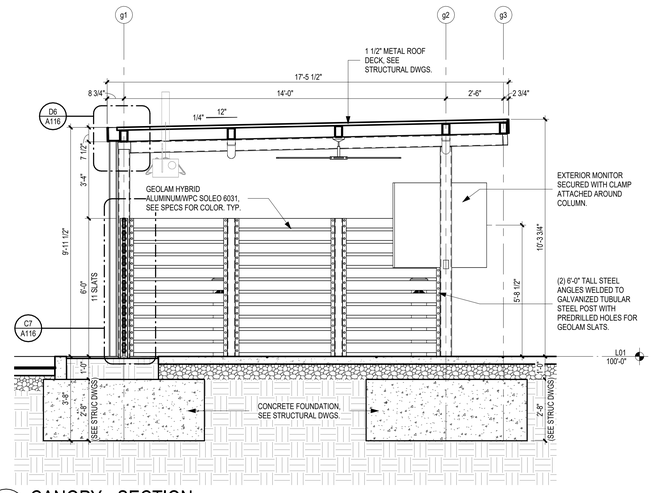
D6 CANOPY - GUTTER DETAIL
1 1/2" = 1'-0"



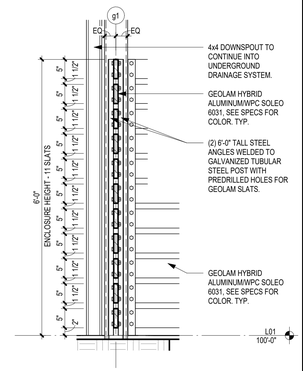
B1 EAST ELEVATION - COVERED PATIO
3/8" = 1'-0"



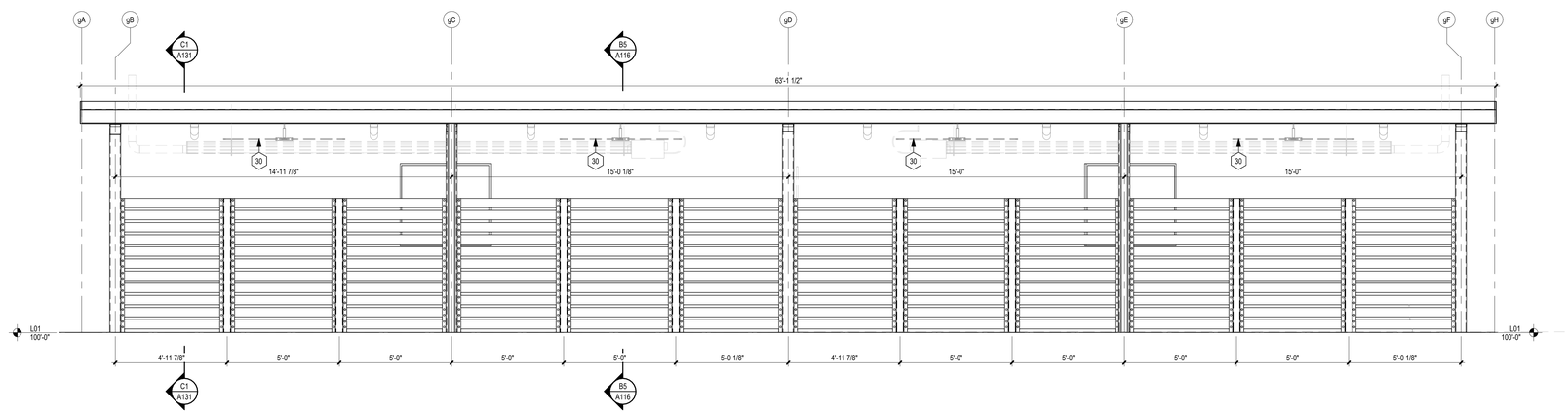
B3 WEST ELEVATION - COVERED PATIO
3/8" = 1'-0"



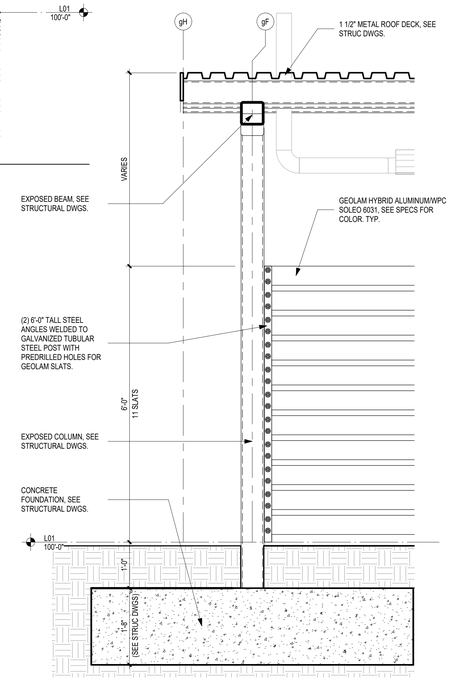
B5 CANOPY - SECTION
3/8" = 1'-0"



C7 SLAT DETAIL
3/4" = 1'-0"



A1 SOUTH ELEVATION - COVERED PATIO
3/8" = 1'-0"



A6 SECTION @ COVERED PATIO
3/4" = 1'-0"

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No.	Date	Revision

COVERED PATIO

Project No.
23121

Sheet No.
A116

Date
09/16/2025

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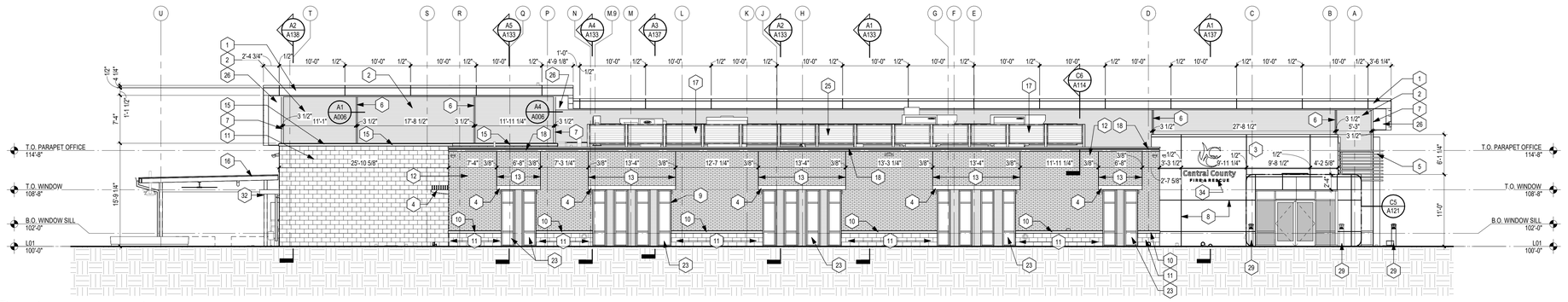
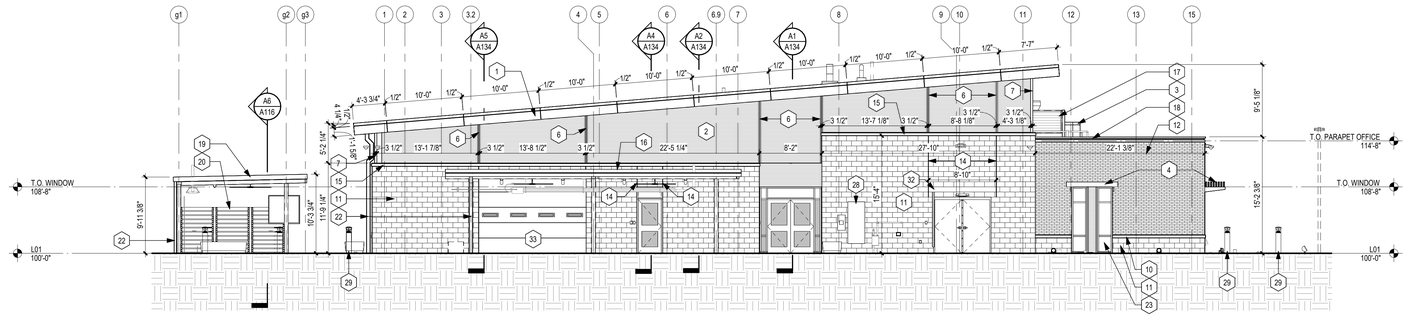
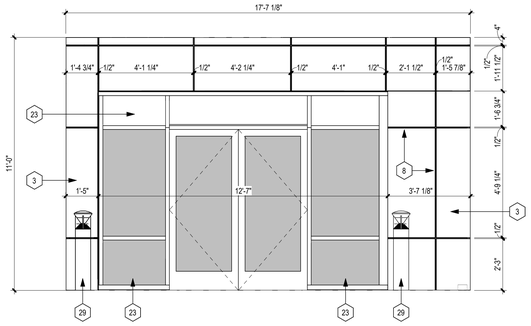


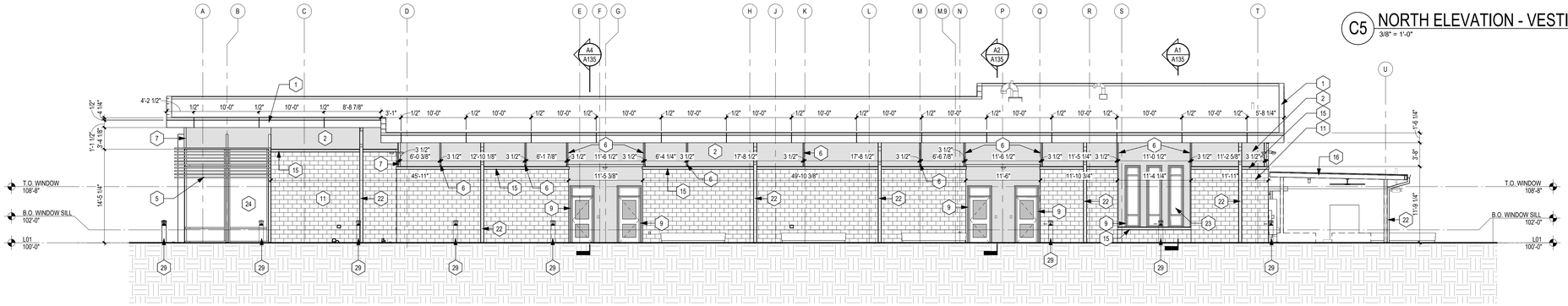
D1 NORTH ELEVATION
1/8" = 1'-0"



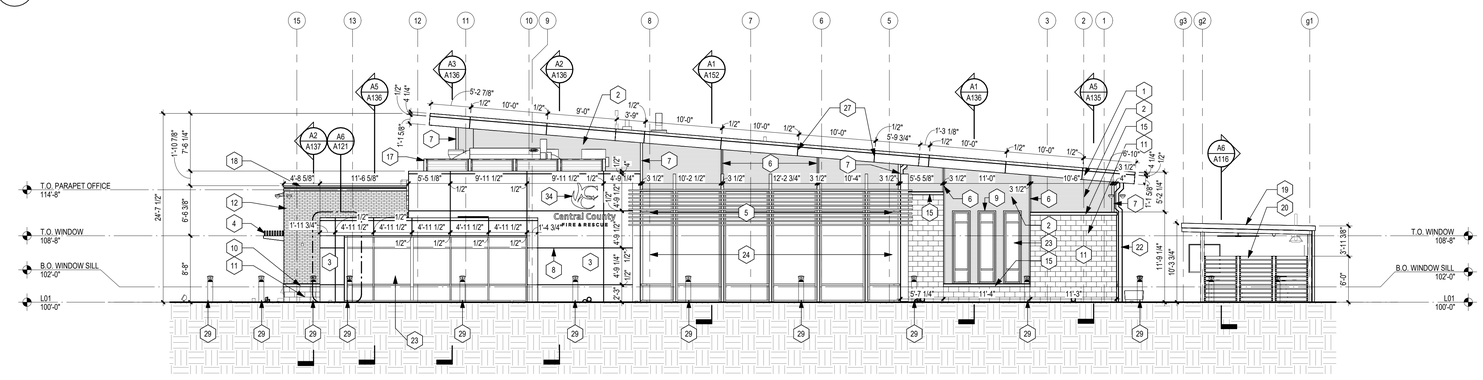
C1 EAST ELEVATION
1/8" = 1'-0"



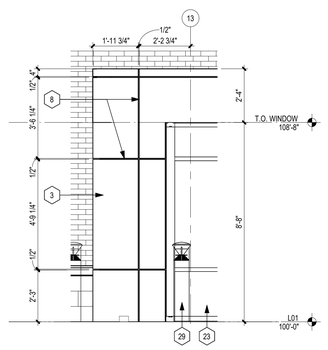
C5 NORTH ELEVATION - VESTIBULE
3/8" = 1'-0"



B1 SOUTH ELEVATION
1/8" = 1'-0"



A1 WEST ELEVATION
1/8" = 1'-0"



A6 WEST ELEVATION - VESTIBULE
3/8" = 1'-0"

KEYED NOTES EXTERIOR ELEV.

MARK	DESCRIPTION
1	MICA MNC CLEAR MCM PANEL (MCM-02) SEE EXT. BLDG. MTLS. LEGEND.
2	TBD CONCEALED FASTENED METAL WALL PANEL (MTL-03). SEE EXT. BLDG. MTLS LEGEND.
3	RED MCM PANEL (MCM-01). SEE EXT. BLDG. MTLS. LEGEND.
4	TEAK ALUMINUM CLADDING SUN SCREEN. SEE WALL SECTIONS & DETAILS.
5	TEAK ALUMINUM CLADDING SUN SCREEN. SEE SHEET A153 FOR DETAILS.
6	3 PC. METAL PANEL VERTICAL PANEL JOINT TRIM COLOR TO MATCH WALL PANEL SEE SHEET A006 FOR DETAILS.
7	3 PC. METAL PANEL CORNER VERTICAL PANEL JOINT TRIM COLOR TO MATCH WALL PANEL. SEE SHEET A006 FOR DETAILS.
8	MCM REVEAL .05W X 2.0D (EXP-02)
9	METAL TRIM TO MATCH METAL PANEL.
10	MIDWEST CAST STONE (STN-01), CUSTOM PROFILE PER DOCUMENTS (SP-1). SEE EXT. BLDG. MTLS. LEGEND.
11	GRAY SPLIT FACE BLOCK (CMU-01). SEE EXT. BLDG. MTLS. LEGEND.
12	GRAY BRICK (BRK-01). SEE EXT. BLDG. MTLS. LEGEND.
13	3/8" BRICK REVEAL (EXP-01), SEE SHEET A006 FOR DETAILS.
14	3/8" CMU REVEAL (EXP-01). SEE DETAILS.
15	MIDWEST CAST STONE (STN-01). CUSTOM PROFILE PER DOCUMENTS (SP-2). SEE EXT. BLDG. MTLS. LEGEND AND SHEET A006 FOR STONE PROFILE DETAILS.
16	1 1/2" METAL DECK CANOPY. SEE STRUCTURAL DRAWINGS.
17	METAL ROOF SCREEN (MTL-03) WELDED TO STEEL ANGLE FRAMING. CONTRACTOR TO VERIFY THAT THE MECHANICAL SCREEN IS MIN OF 4" ABOVE THE RTU. NOTIFY ARCHITECT IF LOWER.
18	CREATIVE DESIGN CORNICE COPING BY METAL ERA. METAL COPING (MTL-01). -SEE EXT. BLDG. MTLS. LEGEND.
19	COVERED PATIO, SEE SHEET A115, A116 & STRUCTURAL DWGS FOR DETAILS.
20	GEOLAM HYBRID ALUMINUM/WPC SOLEO 6031, SEE SHEET A115, A116 FOR DETAILS.
21	1 1/2" METAL ROOF DECK, SEE ROOF PLAN & STRUCTURAL DWGS.
22	ROOF DRAINAGE DOWNSPOUT.
23	1" INSULATED GLAZING, CLEAR (SF-01) -SEE EXT. BLDG. MTLS. LEGEND.
24	CURTAIN WALL (CW-01). -SEE EXT. BLDG. MTLS. LEGEND.
25	CLERESTORY STOREFRONT. -SEE STOREFRONT ELEVATIONS.
26	LONGBOARD TONGUE AND GROOVE SOFFIT SYSTEM (MTL-04). SEE EXT. BLDG. MTLS. LEGEND & DETAILS.
27	COPING REVEAL (MCM)
28	ELECTRICAL BOX, SEE ELECTRICAL DRAWINGS FOR INFO.
29	GEM1 PERFORMANCE BOLLARD SILVER MCM. SEE ELECTRICAL DWGS.
30	CEILING FAN ATTACHED TO STRUCTURE. SEE ELECTRICAL DWGS.
31	EXTERIOR MONITOR SECURED WITH CLAMP ATTACHED AROUND COLUMN.
32	CANOPY OVER DOOR 145. SEE DETAILS.
33	OVERHEAD DOOR. SEE DOOR SCHEDULE FOR DETAILS.
34	WALL MOUNTED DIMENSIONAL LETTER SIGNAGE BY OTHERS. G.C. TO COORDINATE SIGNAGE LOCATION W/ SIGNAGE VENDOR./SUPPLIER AND PROVIDE BLOCKING IN WALL AS REQ'D. FOR ATTACHMENT OF SIGN. -REFERENCE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.

EXT. BLDG. MTLS. LEGEND

MARK	DESCRIPTION
BRK-01	GLEN GEHRY, MODULAR, URBAN GREY KLAYCOAT. MORTAR – SGS 60A, WHITE.
CMU-01	BEST BLOCK, 4X8X16 NOM. SPLIT-FACE CMU EBONY. MORTAR – SGS 60A, WHITE.
CW-01	2 ½" X 10 1/8" CLEAR ANODIZED THERMALLY BROKEN ALUMINUM CURTAIN WALL SYSTEM W/ 1" INSULATED GLAZING VITRO SOLARBAN 60 CLEAR + CLEAR LOW - E COATING.
EXP-01	BACKER ROD WITH TRIMCO SEALANT, COLOR GREY TBD.
EXP-02	BACKER ROD WITH TRIMCO SEALANE, COLOR OER RED.
MCM-01	ALPOLIC FR, 4MM MCM PANELS, COLOR OER RED.
MCM-02	ALPOLIC FR, 4MM MCM PANELS, COLOR MICA MNC CLEAR.
MTL-01	CREATIVE DESIGN CORNICE COPING BY METAL ERA, METAL COPING: SILVER (METALLIC).
MTL-02	MCELROY METALS SILVER METALLIC.
MTL-03	CONCEALED FASTENED METAL WALL PANEL: FABRAL SILHOUETTE HCF SERIES,16-4C; COLOR TBD PROVIDE FOLLOWING COLOR SAMPLES FOR ARCHITECTS APPROVAL (BRIGHT SILVER S66, SILVERSMITH S15).
MTL-04	LONGBOARD TONGUE AND GROOVE SOFFIT SYSTEM, 6 ⅛", COLOR – LIGHT BAMBOO LBB.
SF-01	2" X 4 1/2" CLEAR ANODIZED THERMALLY BROKEN ALUMINUM STOREFRONT SYSTEM W/ 1" INSULATED GLAZING VITRO SOLARBAN 60 CLEAR + CLEAR LOW -E COATING.
ST-01	MIDWEST CAST STONE, CUSTOM PROFILE PER DOCUMENTS, COLOR 1A. MORTAR – SGS 60A, WHITE.

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No.	Date	Revision

EXTERIOR ELEVATIONS

Project No.
23121

Sheet No.
A121

Date
09/16/2025

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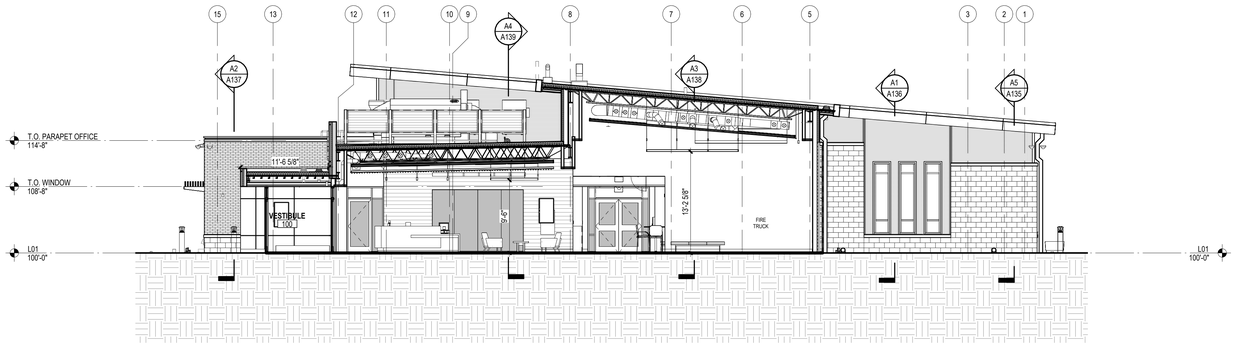
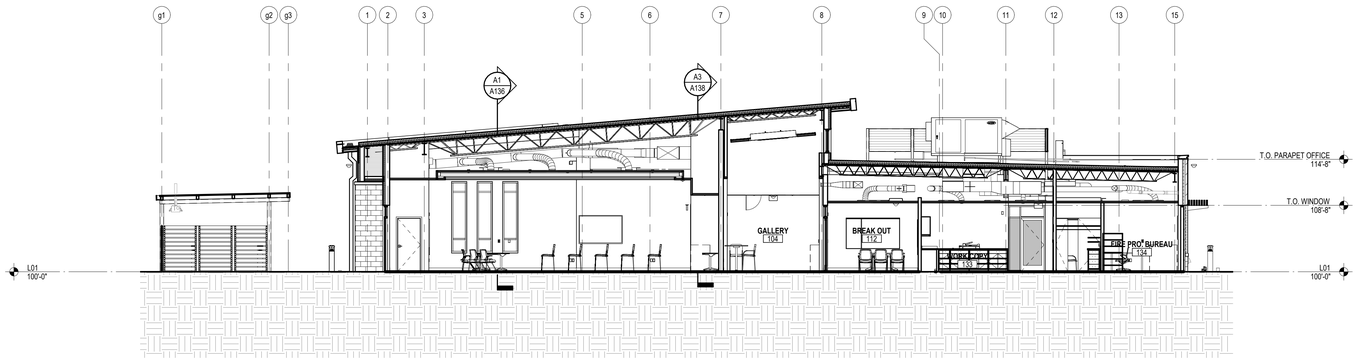
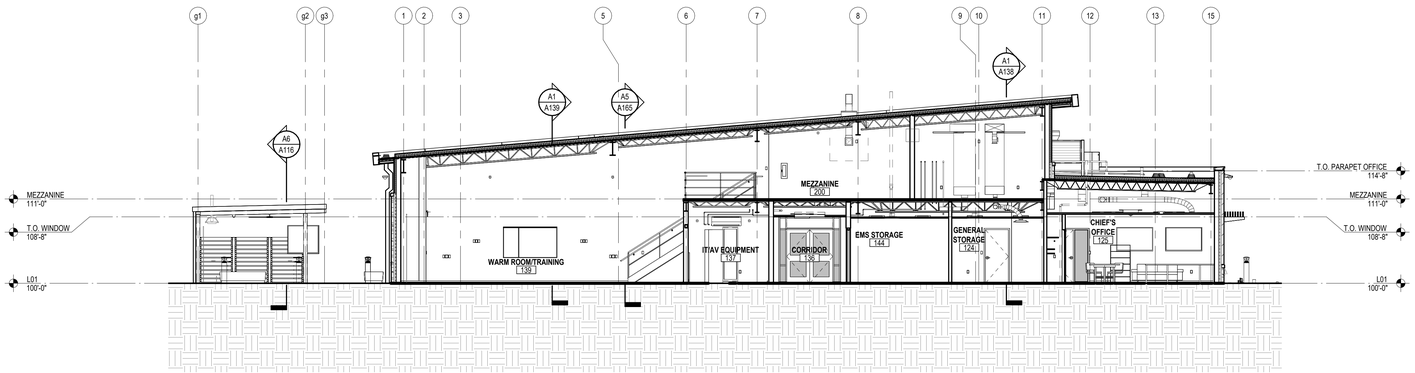


D1 BUILDING SECTION 3
1/8" = 1'-0"



C1 BUILDING SECTION 2
1/8" = 1'-0"



A1 BUILDING SECTION 1
1/8" = 1'-0"

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ST. PETERS, MO 63376
360/340 ECOLOGY DRIVE

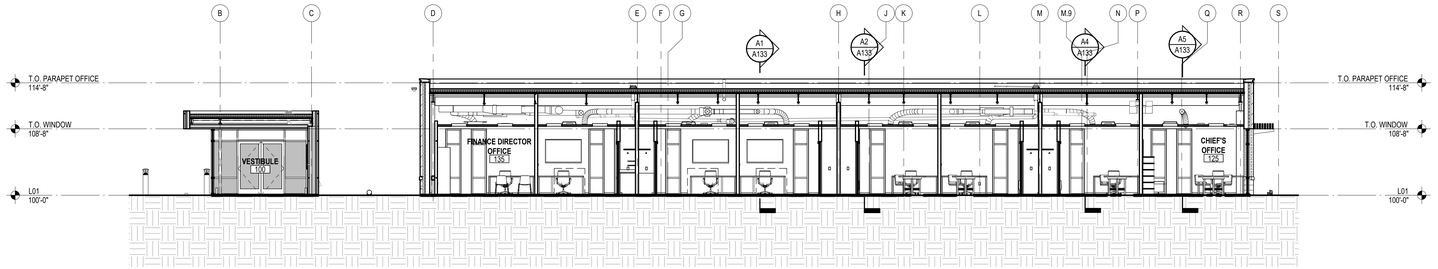
No.	Date	Revision

BUILDING SECTIONS

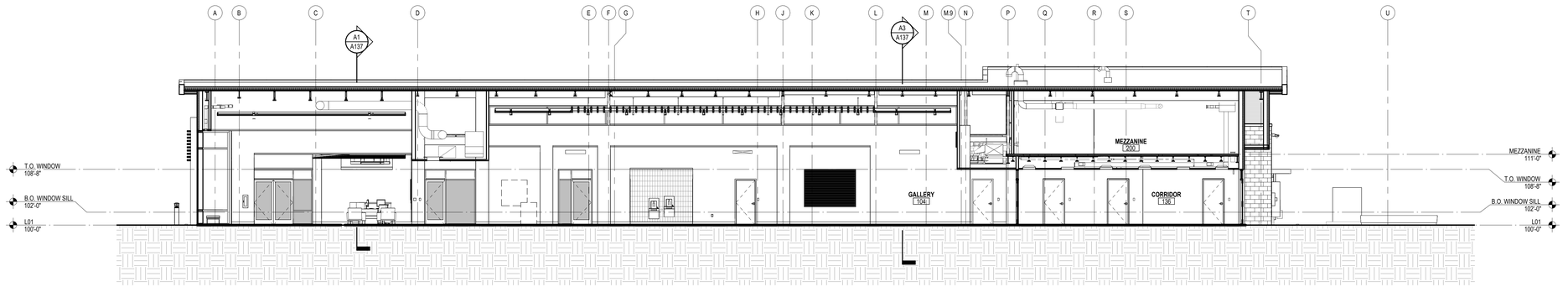
Project No.
23121

Sheet No.
A131

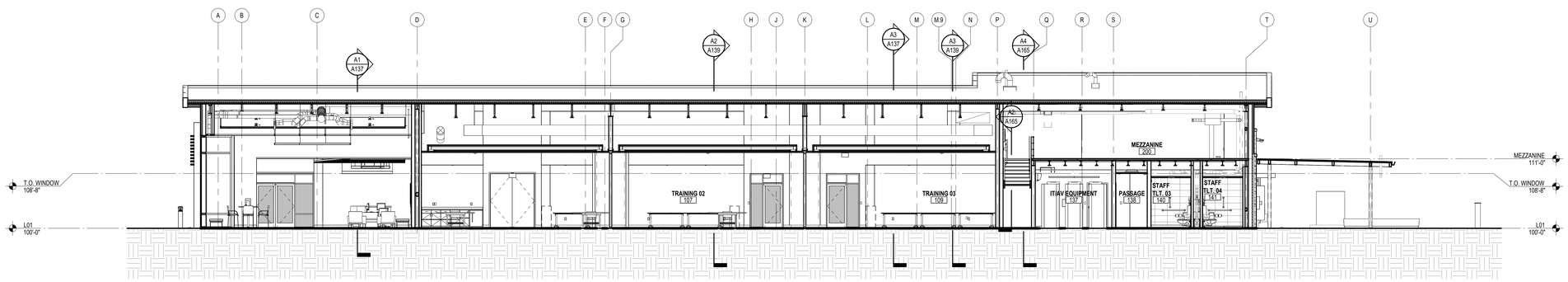
Date
09/16/2025



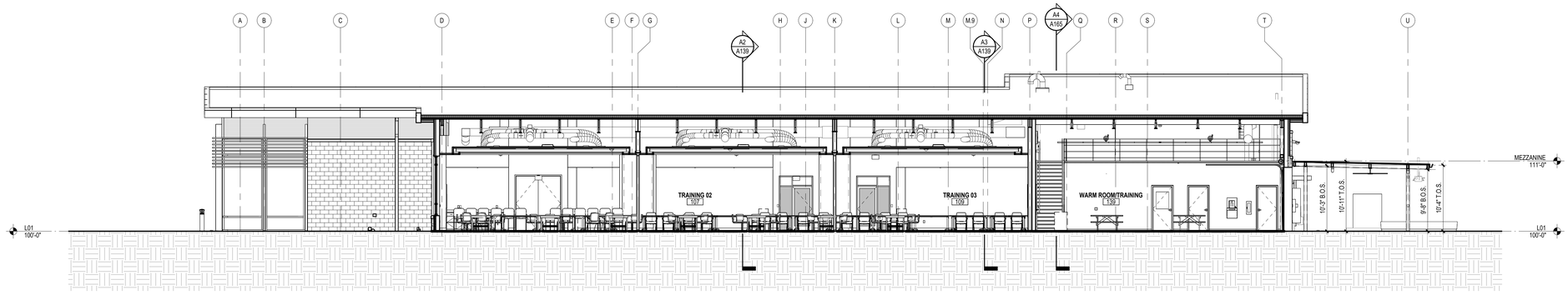
D1 BUILDING SECTION 7
1/8" = 1'-0"



C1 BUILDING SECTION 6
1/8" = 1'-0"



B1 BUILDING SECTION 5
1/8" = 1'-0"



A1 BUILDING SECTION 4
1/8" = 1'-0"

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No.	Date	Revision

BUILDING SECTIONS

Project No.
23121

Sheet No.
A132

Date
09/16/2025

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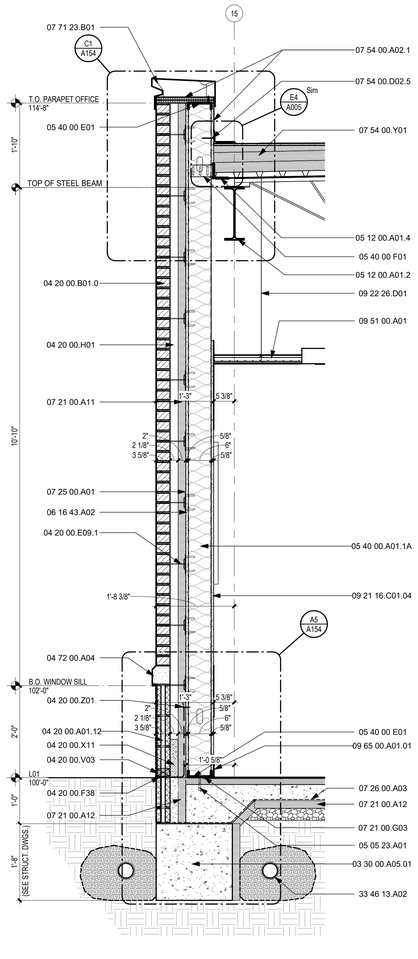

A1 WALL SECTION NORTH 1
3/4" = 1'-0"

A2 WALL SECTION NORTH 2
3/4" = 1'-0"

A4 WALL SECTION NORTH 3
3/4" = 1'-0"

A5 WALL SECTION - NORTH STOREFRONT
3/4" = 1'-0"

KEYED NOTES WALL SECTION

Key Value	Keynote Text
03 30 00.A05.01	CAST-IN-PLACE CONCRETE FOOTING. -SEE STRUCTURAL DRAWINGS.
03 30 00.A05.09	CAST-IN PLACE CONCRETE FLOOR SLAB. -SEE STRUCTURAL DRAWINGS.
04 20 00.A01.1E	4" X 8" X 16" (NOM.). SINGLE BULL-NOSE CONCRETE BLOCK (C.M.U.). -SEE PARTITION TYPE FOR FIRE RATING.
04 20 00.A01.12	(CMU-01) 4"X 8"X 16" (NOM.). SPLIT FACE CONCRETE BLOCK (C.M.U.). -SEE PARTITION TYPE FOR FIRE RATING.
04 20 00.A2.01	4" X 4" X 16" (NOM) CONCRETE BLOCK (C.M.U) GROUT SOLID
04 20 00.A2.03	4" X 8" X 16" (NOM) CONCRETE BLOCK (C.M.U) GROUT SOLID
04 20 00.B01.0	FACING BRICK. -BRK-01 REFERENCE EXTERIOR FINISH LEGEND.
04 20 00.D03	GROUT.
04 20 00.E09.1	TWO-PIECE GALV. METAL MASONRY VENEER ANCHOR.
04 20 00.F18	RUBBERIZED ASPHALT FLASHING. INSTALL IN ACCORDANCE W/ MANUFACTURER'S INSTALLATION INSTRUCTIONS.
04 20 00.F38	CONT. STAINLESS STEEL FLASHING/DRIP EDGE.
04 20 00.H01	AIR CAVITY.
04 20 00.V03	POLYESTER MESH WEEPS @ 24" O.C.
04 20 00.X01	CAVITY MORTAR CONTROL.
04 20 00.X10	CAVITY MORTAR CONTROL MESH PANEL.
04 20 00.X11	CAVITY MORTAR CONTROL MORTAR DIVERTER.
04 20 00.Z01	CONTINUOUS TERMINATION BAR AND SEALANT.

KEYED NOTES WALL SECTION

Key Value	Keynote Text
04 43 00.A1	MASONRY ANCHOR SELECTED AND INSTALLED BY MASONRY MANUFACTURE.
04 43 00.P01	STONE JOINT PIN ANCHOR. EPOXY PIN INTO CAST STONE AND ATTACH TO BUILDING FLOOR SLAB
04 72 00.A04	ST-01 CAST STONE SILL (SP-1) -REFERENCE EXTERIOR ELEVATIONS AND STONE BANDING PROFILES FOR TYPE AND DIMENSIONS. SHEET A006
04 72 00.A05	ST-01 CAST STONE SILL (SP-2) -REFERENCE EXTERIOR ELEVATIONS AND STONE BANDING PROFILES FOR TYPE AND DIMENSIONS. SHEET A006
04 72 00.A07	ST-01 CAST STONE SILL (SP-4) -REFERENCE EXTERIOR ELEVATIONS AND STONE BANDING PROFILES FOR TYPE AND DIMENSIONS. SHEET A006
05 05 23.A01	3/4" Ø ANCHOR BOLT & 1 1/2" WASHERS @ 48" O.C. MAX.(MIN 7" EMBED). MIN (2) BOLTS PER BOARD & WITHIN 12" OF EACH END OR SPLICE.
05 05 23.B02	1" Ø THRU BOLT, 24" O.C. (MAX.). COUNTER SINK BOLT HEAD INTO LEDGER BOARD.
05 12 00.A01.1	STRUCTURAL STEEL COLUMN. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.1A	3/8" THICK ALUMINUM PLATE WITH A WELDED 3/8" THICK, 4" WIDE ALUMINUM BAR SEE STRUC. DWGS.
05 12 00.A01.2	STRUCTURAL STEEL BEAM. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.4	STRUCTURAL STEEL ANGLE. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.6	STRUCTURAL TUBULAR STEEL BEAM. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.12	STRUCTURAL STEEL LINTEL. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.17	STRUCTURAL TUBULAR STEEL COLUMN. -SEE STRUCTURAL DRAWINGS.
05 31 00.A01	9/16" CORRUGATED METAL DECKING. -SEE STRUCTURAL DRAWINGS.
05 31 00.B02	1 1/2" STEEL DECKING. -SEE STRUCTURAL DRAWINGS.
05 40 00 A01.2B	3/4" KNIGHT HCI CLADDING ATTACHMENT.
05 40 00 E01	CONTINUOUS METAL STUD "C" RUNNER TRACK.
05 40 00 E02	CONTINUOUS METAL STUD DEFLECTION HEAD TRACK. -REFERENCE APPLICABLE DETAILS.
05 40 00 F01	METAL STUD SUPPORT CLIP. -SEE STRUCTURAL DRAWINGS.
05 40 00 M08	CONT. 2" X 2" METAL TRIM FRAMING ANGLE.
05 40 00.A01.1A	6" STRUCTURAL COLD-FORMED METAL STUD FRAMING @ 16" O.C. W/ R-19 (MIN.) BATT INSULATION. -SEE STRUCTURAL DRAWINGS.
05 40 00.A01.1G	2 1/2" COLD-FORMED METAL STUD FRAMING @ 16" O.C.
05 40 00.A01.1O	3 5/8" STRUCTURAL COLD-FORMED METAL STUD FRAMING @ 16" O.C. -SEE STRUCTURAL DRAWINGS.
05 40 00.R04	3"X 3"GALVANIZED COLD ROLLED METAL ANGLE GAUGE SIZED BY METAL FRAMING DELEGATED DESIGNER.
05 40 00.R10	1 1/2" X 2" GALVANIZED COLD ROLLED METAL ANGLE GAUGE SIZED BY METAL FRAMING DELEGATED DESIGNER.
05 51 00.A01.1	PREFABRICATED STEEL PAN STAIR W/ CONCRETE FILLED TREADS.
05 52 13.A01.02	1 1/4" NOM. DIA. STEEL PIPE WALL MOUNTED HANDRAIL ATTACHED TO WALL W/ MOUNTING BRACKETS @ 6'-0" O.C. (MAX.). NOTE: RETURN HANDRAIL ENDS TO WALL. -SEE APPLICABLE DETAILS.
06 11 00.F04	5/8" CONT. (FIRE RETARDANT TREATED) PLYWOOD BLOCKING/NAILER.
06 11 00.I01	CONT. 1X2 (NOM.) FIRE RETARDANT TREATED (FRT) WOOD BLOCKING/NAILER.
06 11 00.I12	CONT. 2X8 (NOM.) FIRE RETARDANT TREATED (FRT) WOOD BLOCKING/NAILER.
06 11 00.J04	CONT. FIRE RETARDANT TREATED (FRT) WOOD BLOCKING/NAILER CUT FROM 1X8 (NOM.).
06 11 00.J05	CONT. FIRE RETARDANT TREATED (FRT) WOOD BLOCKING/NAILER CUT FROM 1X10 (NOM.).
06 16 00.B08	3/4" TYPE "CDX" PLYWOOD SHEATHING AND/OR NAILER.
06 16 43.A02	5/8" EXTERIOR FIBERGLASS MAT FACED GYPSUM WALL BOARD SHEATHING.
06 16 43.A03	1/2" EXTERIOR FIBERGLASS MAT FACED IMPACT-RATED GYPSUM ROOF COVER BOARD.
06 16 43.A04	5/8" COVER BOARD.
07 21 00.A01.4	1" THK. (EPS) EXPANDED POLYSTYRENE BOARD INSULATION.
07 21 00.A11	2" THK. (R-10 MIN.) EXTRUDED POLYSTYRENE (XPS) RIGID BOARD INSULATION.
07 21 00.A12	2" THK (R-8.4 MIN.) EXTRUDED POLYSTYRENE (XPS) RIGID BOARD PERIMETER INSULATION.
07 21 00.A13	3/4" THK (R-3.9 MIN.) EXTRUDED POLYSTYRENE (XPS) RIGID BOARD PERIMETER INSULATION.
07 21 00.B01.4	6 1/4" R-19 BATT INSULATION.
07 21 00.F02	2" THK. MINERAL WOOL FIBER BOARD INSULATION.
07 21 00.G02	3.5" W. CLOSED-CELL POLYETHYLENE FOAM SILL SEALER.
07 21 00.G03	5.5" W. CLOSED-CELL POLYETHYLENE FOAM SILL SEALER.
07 25 00.A01	WEATHER BARRIER
07 25 00.I01	SELF-ADHERING RUBBERIZED ASPHALT FLASHING. INSTALL IN ACCORDANCE W/ MANUFACTURER'S INSTALLATION INSTRUCTIONS.
07 25 00.K01	PREFORMED/PREFABRICATED END DAM. SET IN MASTIC IF FLASHING IS NOT SELF-ADHERING. END DAM TO BE PLACED PRIOR TO THROUGH WALL FLASHING
07 26 00.A03	15 MIL. VAPOR RETARDER/BARRIER.
07 42 13.A01	RED METAL COMPOSITE MATERIAL (MCM-01) SHEET. -SEE EXT. BLDG. MTLS. LEGEND.
07 42 13.A02	MICA MNC CLEAR METAL COMPOSITE MATERIAL (MCM-02) SHEET. -SEE EXT. BLDG. MTLS. LEGEND.
07 42 13.A05	MCM ANCHOR, CLIPS AND ACCESSORIES.
07 42 13.A08	MCM HORIZONTAL ANCHOR JOINT CLIP.
07 42 13.A09	MCM VERTICAL ANCHOR JOINT CLIP.
07 42 13.A14	MCM RAINSCREEN PANEL COPING. PROVIDE BACKER ROD & SEALANT IN ALL SKYWARD JOINTS. SEALANT COLOR TO MATCH MCM COLOR UNLESS OTHERWISE INDICATED.
07 42 13.B01	HORIZONTAL RIBBED (MTL-03) METAL WALL PANEL CONCEALED FASTENED. -REFENCE EXTERIOR BUILDING MATERIALS LEGEND AND APPLICABLE WALL SECTIONS AND DETAILS.
07 48 00.A07	2" THERMABRACKET-D RAINSCREEN ATTACHMENT BRACKET BY KNIGHTWALL OR ARCHITECT APPROVED EQUAL.
07 54 00.A02.0	THERMOPLASTIC POLYOLEFIN (TPO) MEMBRANE ROOFING
07 54 00.A02.1	TPO MEMBRANE
07 54 00.D02.5	METAL TERMINATION BAR.
07 54 00.Y01	ROOF SYSTEM TYPE A: FULLY ADHERED TPO MEMBRANE ROOFING OVER 1/2" THK. COVER BOARD ATTACHED (2) LAYERS OF 2.6"THK. (R-15.0 MIN.) RIGID ROOF INSUL ATTACHED TO 1 1/2" MTL ROOF DECK. (NOTE INSTALL ALL ROOF INSULATION AND TAPERED CRICKET INSULATION PRIOR TO INSTALLATION OF TOP COVERBOARD).
07 54 00.Y07	ROOF SYSTEM TYPE B: FULLY ADHERED TPO MEMBRANE ROOFING OVER 1/2" THK. COVER BOARD ATTACHED TO 3/4" MIN. TAPERED RIGID ROOF INSULATION OVER (2) LAYERS OF 2.6"THK. (R-15.0 MIN.) RIGID ROOF INSUL ATTACHED TO 9/16" MTL ROOF DECK.
07 62 00.A02.1	PRE-FINISHED METAL FLASHING AND/OR TRIM FINISH TO MATCH ADJACENT METAL PANEL.
07 62 00.A02.3	PRE-FINISHED AJ3 "J" CHANNEL AND/OR TRIM FINISH TO MATCH ADJACENT METAL PANEL.
07 62 00.A11.0	CLEAR ANODIZED ALUMINUM SILL FLASHING TO MATCH ALUM. STOREFRONT.
07 71 23.B01	PREFABRICATED CREATIVE DESIGN REVEAL METAL COPING (MTL-01) W/ CONT. CLEAT BY METAL-ERA.
07 90 05.A04.02	3/8" W. BACKER ROD AND SEALANT.
07 90 05.A04.03	1/2" W. BACKER ROD & SEALANT.
07 90 05.A04.07	1"W. BACKER ROD & SEALANT.
07 90 05.B02	CONT. 1/4" W. SEALANT JOINT. COLOR TO MATCH ADJACENT MATERIAL UNLESS OTHERWISE INDICATED.
07 90 05.B03	CONT. 3/8" W. SEALANT JOINT. COLOR TO MATCH ADJACENT MATERIAL UNLESS OTHERWISE INDICATED.
08 33 23.A01	OVERHEAD COILING DOOR. -REFERENCED DOOR SCHEDULE FOR TYPE AND SIZE.
08 36 13.B01	OVERHEAD SECTIONAL DOOR. -SEE DOOR SCHEDULE.
08 43 13.A01	2" X 4 1/2" THERMALLY BROKEN ALUMINUM STOREFRONT SYSTEM W/ CENTER SET 1" INSULATING GLAZING. -REFERENCE EXTERIOR ELEVATIONS OR FRAME TYPE ELEVATIONS FOR GLAZING TYPES.
08 43 13.A02	1/2" TEMP. GLASS WITH ACID ETCHED ON ONE SIDE.
08 43 13.A05	2" X 4 1/2" THERMALLY BROKEN ALUMINUM STOREFRONT HEAD EXTRUSION W/ HEAD RECEPTOR. -REFERENCE HEAD AND JAMB DETAILS, EXTERIOR ELEVATIONS OR FRAME TYPE ELEVATIONS FOR GLAZING TYPES.
08 43 13.C01	ALUMINUM STOREFRONT ENTRY DOOR. -SEE DOOR & GLAZING SCHEDULES.
08 44 13.A01	2 1/2" X 10 1/8" ALUMINUM CURTAIN WALL SYSTEM W/ 1" INSULATED GLAZING. -REFERENCE EXTERIOR ELEVATIONS AND/OR FRAME TYPE ELEVATIONS FOR GLAZING TYPES.
08 71 00.B01	DOOR BOTTOM SWEEP. PEMKO 29326V OR ARCHITECT APPROVED EQUAL. -SEE DOOR HARDWARE SCHEDULE FOR FINISH.
08 80 00.01E	GLAZING TYPE "GS", 1" INSULATED GLAZING. -REFERENCE FRAME TYPE ELEVATIONS AND GLASS LITE SCHEDULE FOR GLAZING TYPE.
09 21 16.A01.10	3 5/8" METAL STUDS/FRAMING @ 16" O.C. (MAX.).
09 21 16.A01.14	6" METAL STUDS/FRAMING @ 16" O.C. (MAX.).
09 21 16.C01.04	5/8" THK. PAPER FACED GYPSUM WALL BOARD.
09 21 16.C08.04	WOOD SHIPLAP PANELING & WOOD TRIM, SEE FINISH SCHEDULE.
09 21 16.E01	SUSPENDED GYPSUM BOARD CEILING SYSTEM: 5/8" GYPSUM BOARD ATTACHED TO DRYWALL GRID SYSTEM.
09 21 16.E01	CONT. NO. 200B "L"-TRIM TYP.
09 21 16.E04	CONT. CORNER BEAD TYP.
09 22 26.D01	12 GA. HANGER WIRE TYP.
09 51 00.A01	LAY-IN ACOUSTICAL PANEL CEILING AND METAL TEE GRID SUSPENSION SYSTEM -SEE INTERIOR FINISH SCHEDULE.
09 65 00.A01.01	RESILIENT BASE AS SCHEDULED. -REFER TO FLOOR FINISH PLAN AND FINISH SCHEDULE.
10 14 00.A01	WALL MOUNTED DIMENSIONAL LETTER SIGNAGE BY OTHERS. G.C. TO COORDINATE SIGNAGE LOCATION W/ SIGNAGE VENDOR /SUPPLIER AND PROVIDE BLOCKING IN WALL AS REQD. FOR ATTACHMENT OF SIGN. -REFERENCE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.
10 22 23.A01	OPERABLE PARTITION. -REFERENCE APPLICABLE FLOOR PLANS, SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION.
10 71 13 A.01	GEOLAM PLANEO 6040 COMPOSITE SUNSHADE(40MM X 60MM) WOOD POLYMER COMPOSITE (TEAK).
10 71 13 A.02	GEOLAM PLANEO 4061 COMPOSITE SUNSHADE (300MM X 100MM) WOOD-POLYMER COMPOSITE (TEAK)
10 71 13 A.03	GEOLAM PLANEO 6033 COMPOSITE SUNSHADE (300MM X 100MM) WOOD-POLYMER COMPOSITE (TEAK)
12 36 61.B01	1/2" THK. SOLID SURFACE WINDOW SILL. -REFERENCE INTERIOR FINISH SCHEDULE.
13 34 19 A01.05	6"V LONGBOARD TONGUE & GROOVE EXTERIOR SOFFIT LIGHT BAMBOO.
26 56 33.A01	LIGHT BOLLARD. -SEE ELECTRICAL DRAWINGS.
33 46 13.A02	4" PERFORATED DRAIN PIPE SURROUNDED BY 1" CLEAN CRUSHED ROCK PLACED A MINIMUM OF 6 INCHES IN ALL DIRECTIONS AROUND PIPE, ENCASED IN A MIRAFI 140N SYNTHETIC FILTER FABRIC OR ARCHITECT APPROVED EQUAL. REFERENCE CIVIL AND/OR PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

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Proposed:
CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE
ST. PETERS, MO 63376
360/340 ECOLOGY DRIVE

No.	Revision	Date

WALL SECTIONS

Project No. 23121

Sheet No. A133

Date 09/16/2025

9/13/2025 7:28:47 PM
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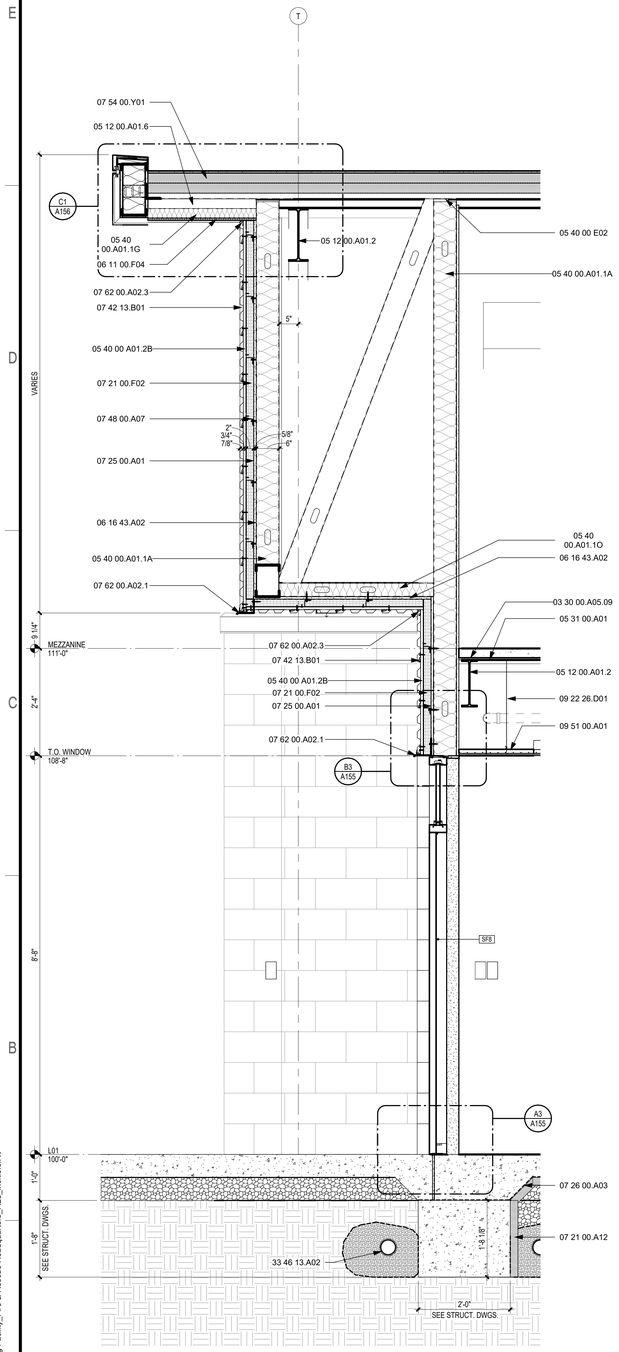
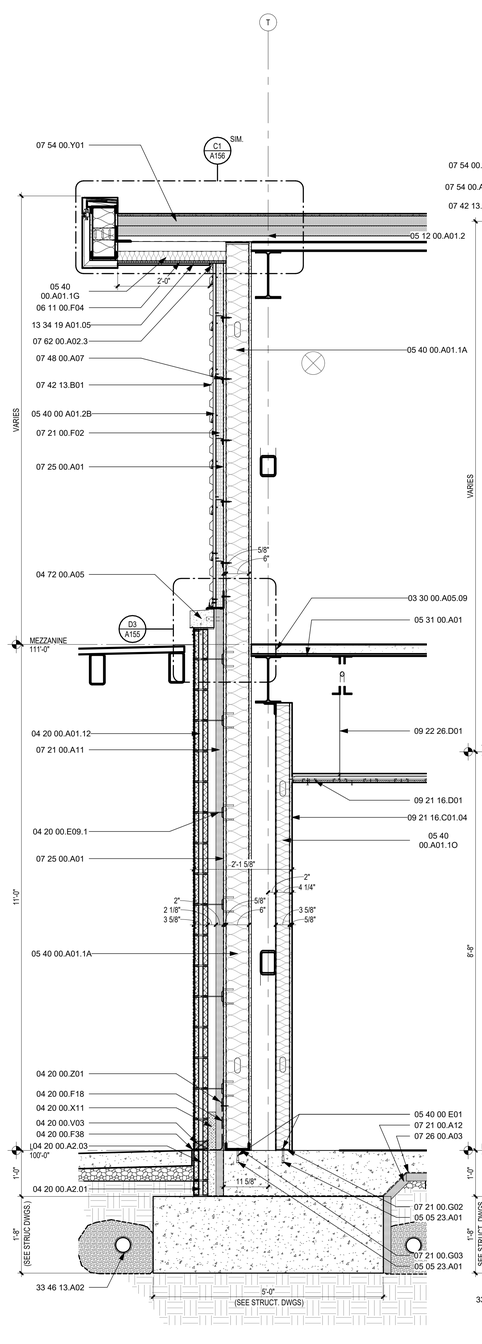
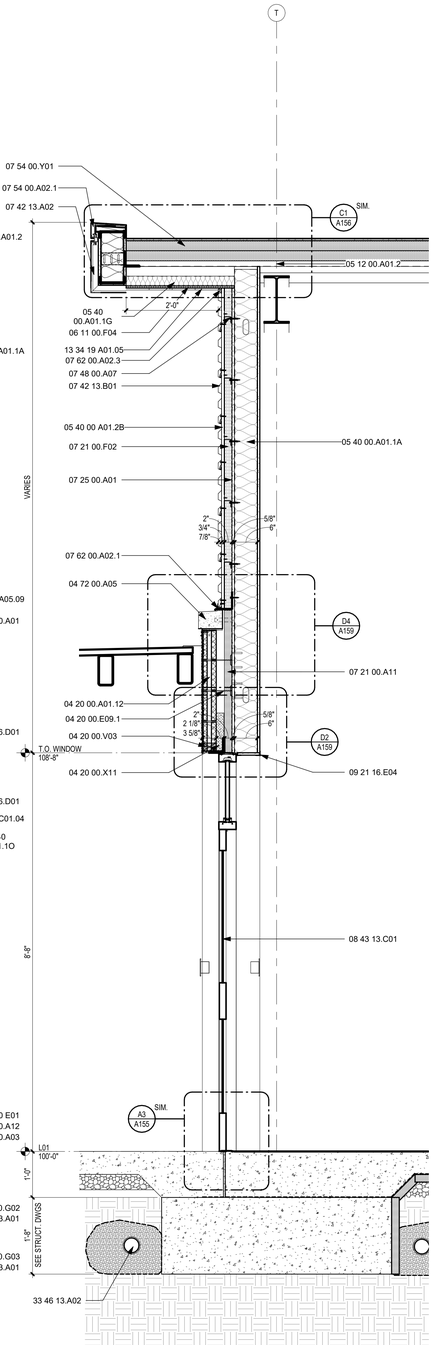


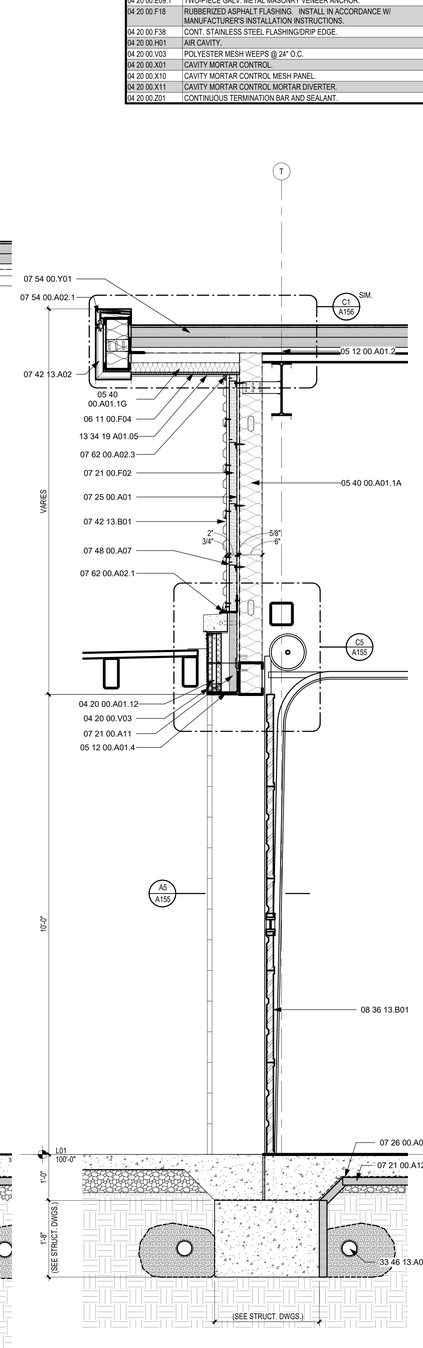
A1 WALL SECTION EAST @ DOOR 136A
3/4" = 1'-0"



A2 WALL SECTION EAST @ STAFF TLT. 141
3/4" = 1'-0"



A4 WALL SECTION EAST @ DOOR 139B
3/4" = 1'-0"



A5 WALL SECTION EAST @ O.H. DOOR
3/4" = 1'-0"

KEYED NOTES WALL SECTION

Key Value	Keynote Text
03 30 00.A05.01	CAST-IN-PLACE CONCRETE FOOTING. -SEE STRUCTURAL DRAWINGS.
03 30 00.A05.09	CAST-IN PLACE CONCRETE FLOOR SLAB. -SEE STRUCTURAL DRAWINGS.
04 20 00.A01.1E	4" X 8" X 16" (NOM.). SINGLE BULL-NOSE CONCRETE BLOCK (C.M.U.). -SEE PARTITION TYPE FOR FIRE RATING.
04 20 00.A01.12	(CMU-01) 4"X 8"X 16" (NOM.). SPLIT FACE CONCRETE BLOCK (C.M.U.). -SEE PARTITION TYPE FOR FIRE RATING.
04 20 00.A2.01	4" X 4" X 16" (NOM) CONCRETE BLOCK (C.M.U) GROUT SOLID
04 20 00.A2.03	4" X 8" X 16" (NOM) CONCRETE BLOCK (C.M.U) GROUT SOLID
04 20 00.B01.0	FACING BRICK. -BRK-01 REFERENCE EXTERIOR FINISH LEGEND.
04 20 00.D03	GROUT.
04 20 00.E09.1	TWO-PIECE GALV. METAL MASONRY VENEER ANCHOR.
04 20 00.F18	RUBBERIZED ASPHALT FLASHING. INSTALL IN ACCORDANCE W/ MANUFACTURER'S INSTALLATION INSTRUCTIONS.
04 20 00.F38	CONT. STAINLESS STEEL FLASHING/DRIP EDGE.
04 20 00.H01	AIR CAVITY.
04 20 00.V03	POLYESTER MESH WEEPS @ 24" O.C.
04 20 00.X01	CAVITY MORTAR CONTROL.
04 20 00.X10	CAVITY MORTAR CONTROL MESH PANEL.
04 20 00.X11	CAVITY MORTAR CONTROL MORTAR DIVERTER.
04 20 00.Z01	CONTINUOUS TERMINATION BAR AND SEALANT.

KEYED NOTES WALL SECTION

Key Value	Keynote Text
04 43 00.A1	MASONRY ANCHOR SELECTED AND INSTALLED BY MASONRY MANUFACTURE.
04 43 00.P01	STONE JOINT PIN ANCHOR. EPOXY PIN INTO CAST STONE AND ATTACH TO BUILDING FLOOR SLAB
04 72 00.A04	ST-01 CAST STONE SILL (SP-1) -REFERENCE EXTERIOR ELEVATIONS AND STONE BANDING PROFILES FOR TYPE AND DIMENSIONS. SHEET A006
04 72 00.A05	ST-01 CAST STONE SILL (SP-2) -REFERENCE EXTERIOR ELEVATIONS AND STONE BANDING PROFILES FOR TYPE AND DIMENSIONS. SHEET A006
04 72 00.A07	ST-01 CAST STONE SILL (SP-4) -REFERENCE EXTERIOR ELEVATIONS AND STONE BANDING PROFILES FOR TYPE AND DIMENSIONS. SHEET A006
05 05 23.A01	3/4" Ø ANCHOR BOLT & 1 1/2" WASHERS @ 48" O.C. MAX (MIN 7" EMBED). MIN (2) BOLTS PER BOARD & WITHIN 12" OF EACH END OR SPLICE.
05 05 23.B02	1" Ø THRU BOLT, 24" O.C. (MAX.). COUNTER SINK BOLT HEAD INTO LEDGER BOARD.
05 12 00.A01.1	STRUCTURAL STEEL COLUMN. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.1A	3/8" THICK ALUMINUM PLATE WITH A WELDED 3/8" THICK, 4" WIDE ALUMINUM BAR SEE STRUC. DWGS.
05 12 00.A01.2	STRUCTURAL STEEL BEAM. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.4	STRUCTURAL STEEL ANGLE. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.6	STRUCTURAL TUBULAR STEEL BEAM. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.12	STRUCTURAL STEEL LINTEL. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.17	STRUCTURAL TUBULAR STEEL COLUMN. -SEE STRUCTURAL DRAWINGS.
05 31 00.A01	9/16" CORRUGATED METAL DECKING. -SEE STRUCTURAL DRAWINGS.
05 31 00.B02	1 1/2" STEEL DECKING. -SEE STRUCTURAL DRAWINGS.
05 40 00 A01.2B	3/4" KNIGHT HCI CLADDING ATTACHMENT.
05 40 00 E01	CONTINUOUS METAL STUD "C" RUNNER TRACK.
05 40 00 E02	CONTINUOUS METAL STUD DEFLECTION HEAD TRACK. -REFERENCE APPLICABLE DETAILS.
05 40 00 F01	METAL STUD SUPPORT CLIP. -SEE STRUCTURAL DRAWINGS.
05 40 00 M08	CONT. 2" X 2" METAL TRIM FRAMING ANGLE.
05 40 00.A01.1A	6" STRUCTURAL COLD-FORMED METAL STUD FRAMING @ 16" O.C. W/ R-19 (MIN.) BATT INSULATION. -SEE STRUCTURAL DRAWINGS.
05 40 00.A01.1G	2 1/2" COLD-FORMED METAL STUD FRAMING @ 16" O.C.
05 40 00.A01.1O	3 5/8" STRUCTURAL COLD-FORMED METAL STUD FRAMING @ 16" O.C. -SEE STRUCTURAL DRAWINGS.
05 40 00.R04	3"X 3" GALVANIZED COLD ROLLED METAL ANGLE GAUGE SIZED BY METAL FRAMING DELEGATED DESIGNER.
05 40 00.R10	1 1/2" X 2" GALVANIZED COLD ROLLED METAL ANGLE GAUGE SIZED BY METAL FRAMING DELEGATED DESIGNER.
05 51 00.A01.1	PREFABRICATED STEEL PAN STAIR W/ CONCRETE FILLED TREADS.
05 52 13.A01.02	1 1/4" NOM. DIA. STEEL PIPE WALL MOUNTED HANDRAIL ATTACHED TO WALL W/ MOUNTING BRACKETS @ 8'-0" O.C. (MAX.). NOTE: RETURN HANDRAIL ENDS TO WALL. -SEE APPLICABLE DETAILS.
06 11 00.F04	5/8" CONT. (FIRE RETARDANT TREATED) PLYWOOD BLOCKING/NAILER.
06 11 00.I01	CONT. 1X2 (NOM.) FIRE RETARDANT TREATED (FRT) WOOD BLOCKING/NAILER.
06 11 00.I12	CONT. 2X8 (NOM.) FIRE RETARDANT TREATED (FRT) WOOD BLOCKING/NAILER.
06 11 00.J04	CONT. FIRE RETARDANT TREATED (FRT) WOOD BLOCKING/NAILER CUT FROM 1X8 (NOM.).
06 11 00.J05	CONT. FIRE RETARDANT TREATED (FRT) WOOD BLOCKING/NAILER CUT FROM 1X10 (NOM.).
06 16 00.B08	3/4" TYPE "CDX" PLYWOOD SHEATHING AND/OR NAILER.
06 16 43.A02	5/8" EXTERIOR FIBERGLASS MAT FACED GYPSUM WALL BOARD SHEATHING.
06 16 43.A03	1/2" EXTERIOR FIBERGLASS MAT FACED IMPACT-RATED GYPSUM ROOF COVER BOARD.
06 16 43.A04	5/8" COVER BOARD.
07 21 00.A01.4	1" THK. (EPS) EXPANDED POLYSTYRENE BOARD INSULATION.
07 21 00.A11	2" THK. (R-10 MIN.) EXTRUDED POLYSTYRENE (XPS) RIGID BOARD INSULATION.
07 21 00.A12	2" THK (R-8.4 MIN.) EXTRUDED POLYSTYRENE (XPS) RIGID BOARD PERIMETER INSULATION.
07 21 00.A13	3/4" THK (R-3.9 MIN.) EXTRUDED POLYSTYRENE (XPS) RIGID BOARD PERIMETER INSULATION.
07 21 00.B01.4	6 1/4" R-19 BATT INSULATION.
07 21 00.F02	2" THK. MINERAL WOOL FIBER BOARD INSULATION.
07 21 00.G02	3.5" W. CLOSED-CELL POLYETHYLENE FOAM SILL SEALER.
07 21 00.G03	5.5" W. CLOSED-CELL POLYETHYLENE FOAM SILL SEALER.
07 25 00.A01	WEATHER BARRIER
07 25 00.J01	SELF-ADHERING RUBBERIZED ASPHALT FLASHING. INSTALL IN ACCORDANCE W/ MANUFACTURER'S INSTALLATION INSTRUCTIONS.
07 25 00.K01	PREFORMED/PREFABRICATED END DAM. SET IN MASTIC IF FLASHING IS NOT SELF-ADHERING. END DAM TO BE PLACED PRIOR TO THROUGH WALL FLASHING
07 26 00.A03	15 MIL. VAPOR RETARDER/BARRIER.
07 42 13.A01	RED METAL COMPOSITE MATERIAL (MCM-01) SHEET. -SEE EXT. BLDG. MTLS. LEGEND.
07 42 13.A02	MICA MNC CLEAR METAL COMPOSITE MATERIAL (MCM-02) SHEET. -SEE EXT. BLDG. MTLS. LEGEND.
07 42 13.A05	MCM ANCHOR, CLIPS AND ACCESSORIES.
07 42 13.A08	MCM HORIZONTAL ANCHOR JOINT CLIP.
07 42 13.A09	MCM VERTICAL ANCHOR JOINT CLIP.
07 42 13.A14	MCM RAINSCREEN PANEL COPING. PROVIDE BACKER ROD & SEALANT IN ALL SKYWARD JOINTS. SEALANT COLOR TO MATCH MCM COLOR UNLESS OTHERWISE INDICATED.
07 42 13.B01	HORIZONTAL RIBBED (MTL-03) METAL WALL PANEL CONCEALED FASTENED. -REFERENCE EXTERIOR BUILDING MATERIALS LEGEND AND APPLICABLE WALL SECTIONS AND DETAILS.
07 48 00.A07	2" THERMABRACKET-D RAINSCREEN ATTACHMENT BRACKET BY KNIGHTWALL OR ARCHITECT APPROVED EQUAL.
07 54 00.A02.0	THERMOPLASTIC POLYOLEFIN (TPO) MEMBRANE ROOFING
07 54 00.A02.1	TPO MEMBRANE
07 54 00.D02.5	METAL TERMINATION BAR.
07 54 00.Y01	ROOF SYSTEM TYPE A: FULLY ADHERED TPO MEMBRANE ROOFING OVER 1/2" THK. COVER BOARD ATTACHED (2) LAYERS OF 2.6"THK. (R-15.0 MIN.) RIGID ROOF INSUL ATTACHED TO 1 1/2" MTL ROOF DECK. (NOTE INSTALL ALL ROOF INSULATION AND TAPERED CRICKET INSULATION PRIOR TO INSTALLATION OF TOP COVERBOARD).
07 54 00.Y07	ROOF SYSTEM TYPE B: FULLY ADHERED TPO MEMBRANE ROOFING OVER 1/2" THK. COVER BOARD ATTACHED TO 3/4" MIN. TAPERED RIGID ROOF INSULATION OVER (2) LAYERS OF 2.6"THK. (R-15.0 MIN.) RIGID ROOF INSUL ATTACHED TO 9/16" MTL ROOF DECK.
07 62 00.A02.1	PRE-FINISHED METAL FLASHING AND/OR TRIM FINISH TO MATCH ADJACENT METAL PANEL.
07 62 00.A02.3	PRE-FINISHED AJ3 "J" CHANNEL AND/OR TRIM FINISH TO MATCH ADJACENT METAL PANEL.
07 62 00.A11.0	CLEAR ANODIZED ALUMINUM SILL FLASHING TO MATCH ALUM. STOREFRONT.
07 71 23.B01	PREFABRICATED CREATIVE DESIGN REVEAL METAL COPING (MTL-01) W/ CONT. CLEAT BY METAL-ERA.
07 90 05.A04.02	3/8" W. BACKER ROD AND SEALANT.
07 90 05.A04.03	1/2" W. BACKER ROD & SEALANT.
07 90 05.A04.07	1"I W. BACKER ROD & SEALANT.
07 90 05.B02	CONT. 1/4" W. SEALANT JOINT. COLOR TO MATCH ADJACENT MATERIAL UNLESS OTHERWISE INDICATED.
07 90 05.B03	CONT. 3/8" W. SEALANT JOINT. COLOR TO MATCH ADJACENT MATERIAL UNLESS OTHERWISE INDICATED.
08 33 23.A01	OVERHEAD COILING DOOR. -REFERENCED DOOR SCHEDULE FOR TYPE AND SIZE.
08 36 13.B01	OVERHEAD SECTIONAL DOOR. -SEE DOOR SCHEDULE.
08 43 13.A01	2" X 4 1/2" THERMALLY BROKEN ALUMINUM STOREFRONT SYSTEM W/ CENTER SET 1" INSULATING GLAZING. -REFERENCE EXTERIOR ELEVATIONS OR FRAME TYPE ELEVATIONS FOR GLAZING TYPES.
08 43 13.A02	1/2" TEMP. GLASS WITH ACID ETCHED ON ONE SIDE.
08 43 13.A05	2" X 4 1/2" THERMALLY BROKEN ALUMINUM STOREFRONT HEAD EXTRUSION W/ HEAD RECEPTOR. -REFERENCE HEAD AND JAMB DETAILS, EXTERIOR ELEVATIONS OR FRAME TYPE ELEVATIONS FOR GLAZING TYPES.
08 43 13.C01	ALUMINUM STOREFRONT ENTRY DOOR. -SEE DOOR & GLAZING SCHEDULES.
08 44 13.A01	2 1/2" X 10 1/8" ALUMINUM CURTAIN WALL SYSTEM W/ 1" INSULATED GLAZING. -REFERENCE EXTERIOR ELEVATIONS AND/OR FRAME TYPE ELEVATIONS FOR GLAZING TYPES.
08 71 00.B01	DOOR BOTTOM SWEEP. PEMKO 29326V OR ARCHITECT APPROVED EQUAL. -SEE DOOR HARDWARE SCHEDULE FOR FINISH.
08 80 00.01E	GLAZING TYPE "GS", 1" INSULATED GLAZING. -REFERENCE FRAME TYPE ELEVATIONS AND GLASS LITE SCHEDULE FOR GLAZING TYPE.
09 21 16.A01.10	3 5/8" METAL STUDS/FRAMING @ 16" O.C. (MAX.).
09 21 16.A01.14	6" METAL STUDS/FRAMING @ 16" O.C. (MAX.).
09 21 16.C01.04	5/8" THK. PAPER FACED GYPSUM WALL BOARD.
09 21 16.C08.04	WOOD SHIPLAP PANELING & WOOD TRIM. SEE FINISH SCHEDULE.
09 21 16.E01	SUSPENDED GYPSUM BOARD CEILING SYSTEM: 5/8" GYPSUM BOARD ATTACHED TO DRYWALL GRID SYSTEM.
09 21 16.E01	CONT. NO. 200B "L"-TRIM TYP.
09 21 16.E04	CONT. CORNER BEAD TYP.
09 22 26.D01	12 GA. HANGER WIRE TYP.
09 51 00.A01	LAY-IN ACOUSTICAL PANEL CEILING AND METAL TEE GRID SUSPENSION SYSTEM -SEE INTERIOR FINISH SCHEDULE.
09 65 00.A01.01	RESILIENT BASE AS SCHEDULED. -REFER TO FLOOR FINISH PLAN AND FINISH SCHEDULE.
10 14 00.A01	WALL MOUNTED DIMENSIONAL LETTER SIGNAGE BY OTHERS. G.C. TO COORDINATE SIGNAGE LOCATION W/ SIGNAGE VENDOR /SUPPLIER AND PROVIDE BLOCKING IN WALL AS REQ'D. FOR ATTACHMENT OF SIGN. -REFERENCE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.
10 22 23.A01	OPERABLE PARTITION. -REFERENCE APPLICABLE FLOOR PLANS, SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION.
10 71 13 A.01	GEOLAM PLANEO 6040 COMPOSITE SUNSHADE(40MM X 60MM) WOOD POLYMER COMPOSITE (TEAK).
10 71 13 A.02	GEOLAM PLANEO 4061 COMPOSITE SUNSHADE (300MM X 100MM) WOOD-POLYMER COMPOSITE (TEAK)
10 71 13 A.03	GEOLAM PLANEO 6033 COMPOSITE SUNSHADE (300MM X 100MM) WOOD-POLYMER COMPOSITE (TEAK)
12 36 61.B01	1/2" THK. SOLID SURFACE WINDOW SILL. -REFERENCE INTERIOR FINISH SCHEDULE.
13 34 19 A01.05	6"V LONGBOARD TONGUE & GROOVE EXTERIOR SOFFIT LIGHT BAMBOO.
26 56 33.A01	LIGHT BOLLARD. -SEE ELECTRICAL DRAWINGS.
33 46 13.A02	4" PERFORATED DRAIN PIPE SURROUNDED BY 1" CLEAN CRUSHED ROCK PLACED A MINIMUM OF 6 INCHES IN ALL DIRECTIONS AROUND PIPE, ENCASED IN A MIRAFI 140N SYNTHETIC FILTER FABRIC OR ARCHITECT APPROVED EQUAL. REFERENCE CIVIL AND/OR PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

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No.	Date	Revision

WALL SECTIONS

Project No.
23121

Sheet No.
A134

Date
09/16/2025

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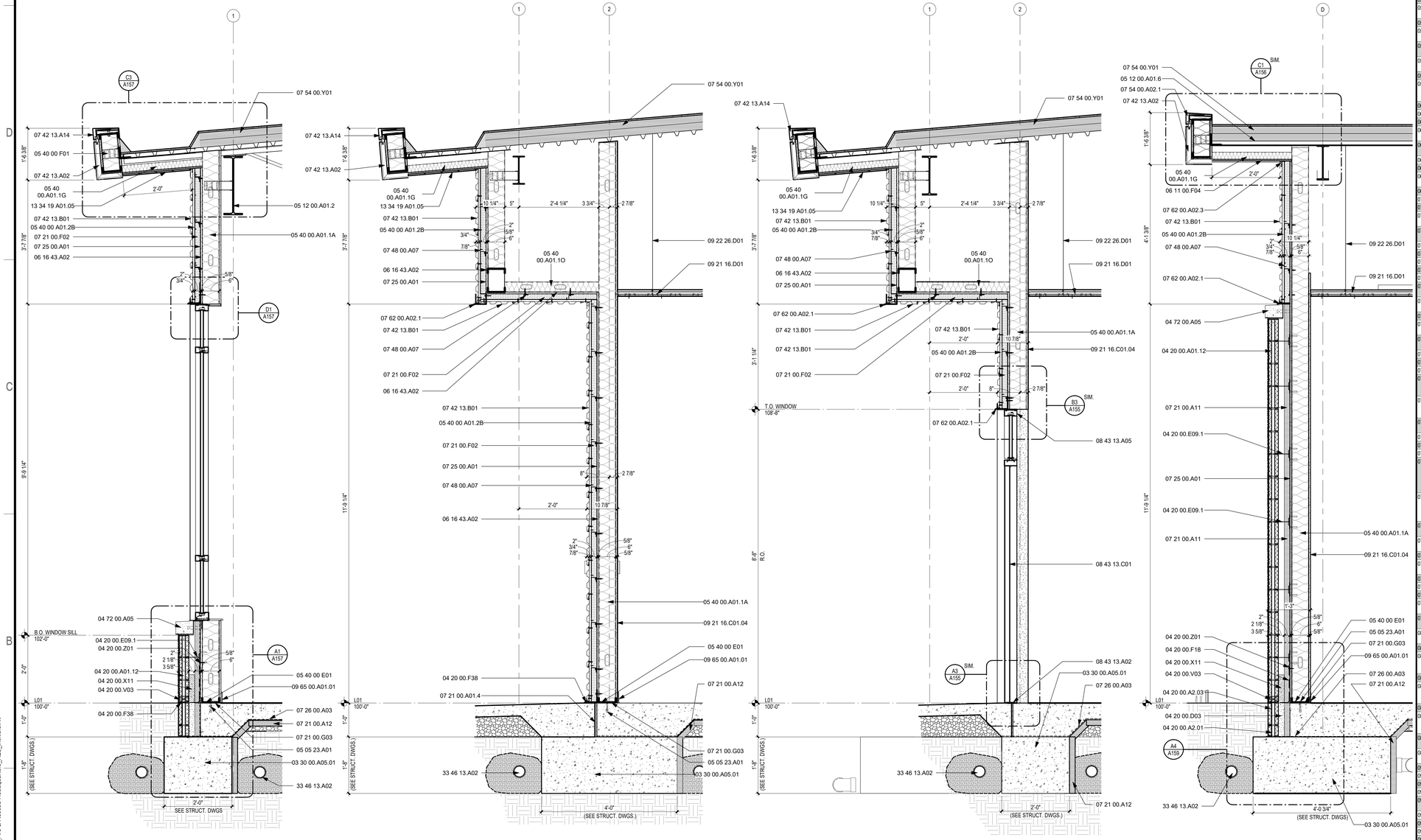

A1 WALL SECTION - SOUTH STOREFRONT
3/4" = 1'-0"

A2 WALL SECTION SOUTH 2
3/4" = 1'-0"

A4 WALL SECTION SOUTH @ EXTERIOR DOOR
3/4" = 1'-0"

A5 WALL SECTION WEST @ STORAGE 106
3/4" = 1'-0"

KEYED NOTES WALL SECTION

Key Value	Keynote Text
03 30 00.A05.01	CAST-IN-PLACE CONCRETE FOOTING. -SEE STRUCTURAL DRAWINGS.
03 30 00.A05.09	CAST-IN PLACE CONCRETE FLOOR SLAB. -SEE STRUCTURAL DRAWINGS.
04 20 00.A01.1E	4" X 8" X 16" (NOM.). SINGLE BULL-NOSE CONCRETE BLOCK (C.M.U.). -SEE PARTITION TYPE FOR FIRE RATING.
04 20 00.A01.12	(CMU-01) 4"X 8"X 16" (NOM.). SPLIT FACE CONCRETE BLOCK (C.M.U.). -SEE PARTITION TYPE FOR FIRE RATING.
04 20 00.A2.01	4" X 4" X 16" (NOM) CONCRETE BLOCK (C.M.U) GROUT SOLID
04 20 00.A2.03	4" X 8" X 16" (NOM) CONCRETE BLOCK (C.M.U) GROUT SOLID
04 20 00.B01.0	FACING BRICK. -BRK-01 REFERENCE EXTERIOR FINISH LEGEND.
04 20 00.D03	GROUT.
04 20 00.E09.1	TWO-PIECE GALV. METAL MASONRY VENEER ANCHOR.
04 20 00.F18	RUBBERIZED ASPHALT FLASHING. INSTALL IN ACCORDANCE W/ MANUFACTURER'S INSTALLATION INSTRUCTIONS.
04 20 00.F38	CONT. STAINLESS STEEL FLASHING/DRIP EDGE.
04 20 00.H01	AIR CAVITY.
04 20 00.V03	POLYESTER MESH WEEPS @ 24" O.C.
04 20 00.X01	CAVITY MORTAR CONTROL.
04 20 00.X10	CAVITY MORTAR CONTROL MESH PANEL.
04 20 00.X11	CAVITY MORTAR CONTROL MORTAR DIVERTER.
04 20 00.Z01	CONTINUOUS TERMINATION BAR AND SEALANT.

KEYED NOTES WALL SECTION

Key Value	Keynote Text
04 43 00.A1	MASONRY ANCHOR SELECTED AND INSTALLED BY MASONRY MANUFACTURE.
04 43 00.P01	STONE JOINT PIN ANCHOR. EPOXY PIN INTO CAST STONE AND ATTACH TO BUILDING FLOOR SLAB
04 72 00.A04	ST-01 CAST STONE SILL (SP-1) -REFERENCE EXTERIOR ELEVATIONS AND STONE BANDING PROFILES FOR TYPE AND DIMENSIONS. SHEET A006
04 72 00.A05	ST-01 CAST STONE SILL (SP-2) -REFERENCE EXTERIOR ELEVATIONS AND STONE BANDING PROFILES FOR TYPE AND DIMENSIONS. SHEET A006
04 72 00.A07	ST-01 CAST STONE SILL (SP-4) -REFERENCE EXTERIOR ELEVATIONS AND STONE BANDING PROFILES FOR TYPE AND DIMENSIONS. SHEET A006
05 05 23.A01	3/4" Ø ANCHOR BOLT & 1 1/2" WASHERS @ 48" O.C. MAX.(MIN 7" EMBED). MIN (2) BOLTS PER BOARD & WITHIN 12" OF EACH END OR SPLICE.
05 05 23.B02	1" Ø THRU BOLT, 24" O.C. (MAX.). COUNTER SINK BOLT HEAD INTO LEDGER BOARD.
05 12 00.A01.1	STRUCTURAL STEEL COLUMN. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.1A	3/8" THICK ALUMINUM PLATE WITH A WELDED 3/8" THICK, 4" WIDE ALUMINUM BAR SEE STRUC. DWGS.
05 12 00.A01.2	STRUCTURAL STEEL BEAM. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.4	STRUCTURAL STEEL ANGLE. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.6	STRUCTURAL TUBULAR STEEL BEAM. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.12	STRUCTURAL STEEL LINTEL. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.17	STRUCTURAL TUBULAR STEEL COLUMN. -SEE STRUCTURAL DRAWINGS.
05 31 00.A01	9/16" CORRUGATED METAL DECKING. -SEE STRUCTURAL DRAWINGS.
05 31 00.B02	1 1/2" STEEL DECKING. -SEE STRUCTURAL DRAWINGS.
05 40 00 A01.2B	3/4" KNIGHT HCI CLADDING ATTACHMENT.
05 40 00 E01	CONTINUOUS METAL STUD "C" RUNNER TRACK.
05 40 00 E02	CONTINUOUS METAL STUD DEFLECTION HEAD TRACK. -REFERENCE APPLICABLE DETAILS.
05 40 00 F01	METAL STUD SUPPORT CLIP. -SEE STRUCTURAL DRAWINGS.
05 40 00 M08	CONT. 2" X 2" METAL TRIM FRAMING ANGLE.
05 40 00.A01.1A	6" STRUCTURAL COLD-FORMED METAL STUD FRAMING @ 16" O.C. W/ R-19 (MIN.) BATT INSULATION. -SEE STRUCTURAL DRAWINGS.
05 40 00.A01.1G	2 1/2" COLD-FORMED METAL STUD FRAMING @ 16" O.C.
05 40 00.A01.1O	3 5/8" STRUCTURAL COLD-FORMED METAL STUD FRAMING @ 16" O.C. -SEE STRUCTURAL DRAWINGS.
05 40 00.R04	3"X 3" GALVANIZED COLD ROLLED METAL ANGLE GAUGE SIZED BY METAL FRAMING DELEGATED DESIGNER.
05 40 00.R10	1 1/2" X 2" GALVANIZED COLD ROLLED METAL ANGLE GAUGE SIZED BY METAL FRAMING DELEGATED DESIGNER.
05 51 00.A01.1	PREFABRICATED STEEL PAN STAIR W/ CONCRETE FILLED TREADS.
05 52 13.A01.02	1 1/4" NOM. DIA. STEEL PIPE WALL MOUNTED HANDRAIL ATTACHED TO WALL W/ MOUNTING BRACKETS @ 8'-0" O.C. (MAX.). NOTE: RETURN HANDRAIL ENDS TO WALL. -SEE APPLICABLE DETAILS.
06 11 00.F04	5/8" CONT. (FIRE RETARDANT TREATED) PLYWOOD BLOCKING/NAILER.
06 11 00.I01	CONT. 1X2 (NOM.) FIRE RETARDANT TREATED (FRT) WOOD BLOCKING/NAILER.
06 11 00.I12	CONT. 2X8 (NOM.) FIRE RETARDANT TREATED (FRT) WOOD BLOCKING/NAILER.
06 11 00.J04	CONT. FIRE RETARDANT TREATED (FRT) WOOD BLOCKING/NAILER CUT FROM 1X8 (NOM.).
06 11 00.J05	CONT. FIRE RETARDANT TREATED (FRT) WOOD BLOCKING/NAILER CUT FROM 1X10 (NOM.).
06 16 00.B08	3/4" TYPE "CDX" PLYWOOD SHEATHING AND/OR NAILER.
06 16 43.A02	5/8" EXTERIOR FIBERGLASS MAT FACED GYPSUM WALL BOARD SHEATHING.
06 16 43.A03	1/2" EXTERIOR FIBERGLASS MAT FACED IMPACT-RATED GYPSUM ROOF COVER BOARD.
06 16 43.A04	5/8" COVER BOARD.
07 21 00.A01.4	1" THK. (EPS) EXPANDED POLYSTYRENE BOARD INSULATION.
07 21 00.A11	2" THK. (R-10 MIN.) EXTRUDED POLYSTYRENE (XPS) RIGID BOARD INSULATION.
07 21 00.A12	2" THK (R-8.4 MIN.) EXTRUDED POLYSTYRENE (XPS) RIGID BOARD PERIMETER INSULATION.
07 21 00.A13	3/4" THK (R-3.9 MIN.) EXTRUDED POLYSTYRENE (XPS) RIGID BOARD PERIMETER INSULATION.
07 21 00.B01.4	6 1/4" R-19 BATT INSULATION.
07 21 00.F02	2" THK. MINERAL WOOL FIBER BOARD INSULATION.
07 21 00.G02	3.5" W. CLOSED-CELL POLYETHYLENE FOAM SILL SEALER.
07 21 00.G03	5.5" W. CLOSED-CELL POLYETHYLENE FOAM SILL SEALER.
07 25 00.A01	WEATHER BARRIER
07 25 00.I01	SELF-ADHERING RUBBERIZED ASPHALT FLASHING. INSTALL IN ACCORDANCE W/ MANUFACTURER'S INSTALLATION INSTRUCTIONS.
07 25 00.K01	PREFORMED/PREFABRICATED END DAM. SET IN MASTIC IF FLASHING IS NOT SELF-ADHERING. END DAM TO BE PLACED PRIOR TO THROUGH WALL FLASHING
07 26 00.A03	15 MIL. VAPOR RETARDER/BARRIER.
07 42 13.A01	RED METAL COMPOSITE MATERIAL (MCM-01) SHEET. -SEE EXT. BLDG. MTLS. LEGEND.
07 42 13.A02	MICA MNC CLEAR METAL COMPOSITE MATERIAL (MCM-02) SHEET. -SEE EXT. BLDG. MTLS. LEGEND.
07 42 13.A05	MCM ANCHOR, CLIPS AND ACCESSORIES.
07 42 13.A08	MCM HORIZONTAL ANCHOR JOINT CLIP.
07 42 13.A09	MCM VERTICAL ANCHOR JOINT CLIP.
07 42 13.A14	MCM RAINSCREEN PANEL COPING. PROVIDE BACKER ROD & SEALANT IN ALL SKYWARD JOINTS. SEALANT COLOR TO MATCH MCM COLOR UNLESS OTHERWISE INDICATED.
07 42 13.B01	HORIZONTAL RIBBED (MTL-03) METAL WALL PANEL CONCEALED FASTENED. -REFERENCE EXTERIOR BUILDING MATERIALS LEGEND AND APPLICABLE WALL SECTIONS AND DETAILS.
07 48 00.A07	2" THERMABRACKET-D RAINSCREEN ATTACHMENT BRACKET BY KNIGHTWALL OR ARCHITECT APPROVED EQUAL.
07 54 00.A02.0	THERMOPLASTIC POLYOLEFIN (TPO) MEMBRANE ROOFING
07 54 00.A02.1	TPO MEMBRANE
07 54 00.D02.5	METAL TERMINATION BAR.
07 54 00.Y01	ROOF SYSTEM TYPE A: FULLY ADHERED TPO MEMBRANE ROOFING OVER 1/2" THK. COVER BOARD ATTACHED (2) LAYERS OF 2.6"THK. (R-15.0 MIN.) RIGID ROOF INSUL ATTACHED TO 1 1/2" MTL ROOF DECK. (NOTE INSTALL ALL ROOF INSULATION AND TAPERED CRICKET INSULATION PRIOR TO INSTALLATION OF TOP COVERBOARD).
07 54 00.Y07	ROOF SYSTEM TYPE B: FULLY ADHERED TPO MEMBRANE ROOFING OVER 1/2" THK. COVER BOARD ATTACHED TO 3/4" MIN. TAPERED RIGID ROOF INSULATION OVER (2) LAYERS OF 2.6"THK. (R-15.0 MIN.) RIGID ROOF INSUL ATTACHED TO 9/16" MTL ROOF DECK.
07 62 00.A02.1	PRE-FINISHED METAL FLASHING AND/OR TRIM FINISH TO MATCH ADJACENT METAL PANEL.
07 62 00.A02.3	PRE-FINISHED AJ3 "J" CHANNEL AND/OR TRIM FINISH TO MATCH ADJACENT METAL PANEL.
07 62 00.A11.0	CLEAR ANODIZED ALUMINUM SILL FLASHING TO MATCH ALUM. STOREFRONT.
07 71 23.B01	PREFABRICATED CREATIVE DESIGN REVEAL METAL COPING (MTL-01) W/ CONT. CLEAT BY METAL-ERA.
07 90 05.A04.02	3/8" W. BACKER ROD AND SEALANT.
07 90 05.A04.03	1/2" W. BACKER ROD & SEALANT.
07 90 05.A04.07	1"W. BACKER ROD & SEALANT.
07 90 05.B02	CONT. 1/4" W. SEALANT JOINT. COLOR TO MATCH ADJACENT MATERIAL UNLESS OTHERWISE INDICATED.
07 90 05.B03	CONT. 3/8" W. SEALANT JOINT. COLOR TO MATCH ADJACENT MATERIAL UNLESS OTHERWISE INDICATED.
08 33 23.A01	OVERHEAD COILING DOOR. -REFERENCED DOOR SCHEDULE FOR TYPE AND SIZE.
08 36 13.B01	OVERHEAD SECTIONAL DOOR. -SEE DOOR SCHEDULE.
08 43 13.A01	2" X 4 1/2" THERMALLY BROKEN ALUMINUM STOREFRONT SYSTEM W/ CENTER SET 1" INSULATING GLAZING. -REFERENCE EXTERIOR ELEVATIONS OR FRAME TYPE ELEVATIONS FOR GLAZING TYPES.
08 43 13.A02	1/2" TEMP. GLASS WITH ACID ETCHED ON ONE SIDE.
08 43 13.A05	2" X 4 1/2" THERMALLY BROKEN ALUMINUM STOREFRONT HEAD EXTRUSION W/ HEAD RECEPTOR. -REFERENCE HEAD AND JAMB DETAILS, EXTERIOR ELEVATIONS OR FRAME TYPE ELEVATIONS FOR GLAZING TYPES.
08 43 13.C01	ALUMINUM STOREFRONT ENTRY DOOR. -SEE DOOR & GLAZING SCHEDULES.
08 44 13.A01	2 1/2" X 10 1/8" ALUMINUM CURTAIN WALL SYSTEM W/ 1" INSULATED GLAZING. -REFERENCE EXTERIOR ELEVATIONS AND/OR FRAME TYPE ELEVATIONS FOR GLAZING TYPES.
08 71 00.B01	DOOR BOTTOM SWEEP. PEMKO 29326V OR ARCHITECT APPROVED EQUAL. -SEE DOOR HARDWARE SCHEDULE FOR FINISH.
08 80 00.01E	GLAZING TYPE "GS", 1" INSULATED GLAZING. -REFERENCE FRAME TYPE ELEVATIONS AND GLASS LITE SCHEDULE FOR GLAZING TYPE.
09 21 16.A01.10	3 5/8" METAL STUDS/FRAMING @ 16" O.C. (MAX.).
09 21 16.A01.14	6" METAL STUDS/FRAMING @ 16" O.C. (MAX.).
09 21 16.C01.04	5/8" THK. PAPER FACED GYPSUM WALL BOARD.
09 21 16.C08.04	WOOD SHIPLAP PANELING & WOOD TRIM. SEE FINISH SCHEDULE.
09 21 16.D01	SUSPENDED GYPSUM BOARD CEILING SYSTEM: 5/8" GYPSUM BOARD ATTACHED TO DRYWALL GRID SYSTEM.
09 21 16.E01	CONT. NO. 2008 "L"-TRIM TYP.
09 21 16.E04	CONT. CORNER BEAD TYP.
09 22 26.D01	12 GA. HANGER WIRE TYP.
09 51 00.A01	LAY-IN ACOUSTICAL PANEL CEILING AND METAL TEE GRID SUSPENSION SYSTEM -SEE INTERIOR FINISH SCHEDULE.
09 65 00.A01.01	RESILIENT BASE AS SCHEDULED. -REFER TO FLOOR FINISH PLAN AND FINISH SCHEDULE.
10 14 00.A01	WALL MOUNTED DIMENSIONAL LETTER SIGNAGE BY OTHERS. G.C. TO COORDINATE SIGNAGE LOCATION W/ SIGNAGE VENDOR /SUPPLIER AND PROVIDE BLOCKING IN WALL AS REQD. FOR ATTACHMENT OF SIGN. -REFERENCE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.
10 22 23.A01	OPERABLE PARTITION. -REFERENCE APPLICABLE FLOOR PLANS, SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION.
10 71 13 A.01	GEOLAM PLANEO 6040 COMPOSITE SUNSHADE(40MM X 60MM) WOOD POLYMER COMPOSITE (TEAK).
10 71 13 A.02	GEOLAM PLANEO 4061 COMPOSITE SUNSHADE (300MM X 100MM) WOOD-POLYMER COMPOSITE (TEAK)
10 71 13 A.03	GEOLAM PLANEO 6033 COMPOSITE SUNSHADE (300MM X 100MM) WOOD-POLYMER COMPOSITE (TEAK)
12 36 61.B01	1/2" THK. SOLID SURFACE WINDOW SILL. -REFERENCE INTERIOR FINISH SCHEDULE.
13 34 19 A01.05	6"V LONGBOARD TONGUE & GROOVE EXTERIOR SOFFIT LIGHT BAMBOO.
26 56 33.A01	LIGHT BOLLARD. -SEE ELECTRICAL DRAWINGS.
33 46 13.A02	4" PERFORATED DRAIN PIPE SURROUNDED BY 1" CLEAN CRUSHED ROCK PLACED A MINIMUM OF 6 INCHES IN ALL DIRECTIONS AROUND PIPE, ENCASED IN A MIRAFI 140N SYNTHETIC FILTER FABRIC OR ARCHITECT APPROVED EQUAL. REFERENCE CIVIL AND/OR PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

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No.	Revision	Date

WALL SECTIONS

Project No. 23121

Sheet No. A135

Date 09/16/2025

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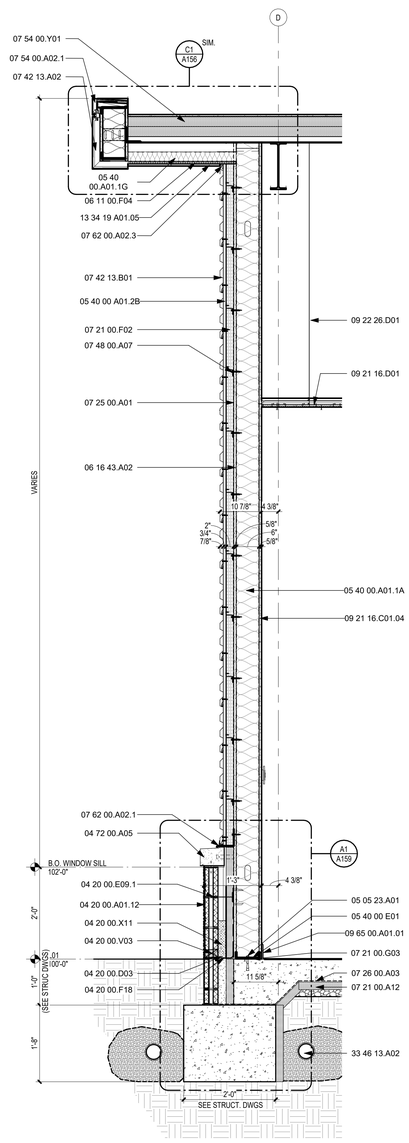

KEYED NOTES WALL SECTION

Key Value	Keynote Text
03 30 00.A05.01	CAST-IN-PLACE CONCRETE FOOTING. -SEE STRUCTURAL DRAWINGS.
03 30 00.A05.09	CAST-IN PLACE CONCRETE FLOOR SLAB. -SEE STRUCTURAL DRAWINGS.
04 20 00.A01.1E	4" X 8" X 16" (NOM.). SINGLE BULL-NOSE CONCRETE BLOCK (C.M.U.). -SEE PARTITION TYPE FOR FIRE RATING.
04 20 00.A01.12	(CMU-01) 4"X 8"X 16" (NOM.). SPLIT FACE CONCRETE BLOCK (C.M.U.). -SEE PARTITION TYPE FOR FIRE RATING.
04 20 00.A2.01	4" X 4" X 16" (NOM) CONCRETE BLOCK (C.M.U) GROUT SOLID
04 20 00.A2.03	4" X 8" X 16" (NOM) CONCRETE BLOCK (C.M.U) GROUT SOLID
04 20 00.B01.0	FACING BRICK. -BRK-01 REFERENCE EXTERIOR FINISH LEGEND.
04 20 00.D03	GROUT.
04 20 00.E09.1	TWO-PIECE GALV. METAL MASONRY VENEER ANCHOR.
04 20 00.F18	RUBBERIZED ASPHALT FLASHING. INSTALL IN ACCORDANCE W/ MANUFACTURER'S INSTALLATION INSTRUCTIONS.
04 20 00.F38	CONT. STAINLESS STEEL FLASHING/DRIP EDGE.
04 20 00.H01	AIR CAVITY.
04 20 00.V03	POLYESTER MESH WEEPS @ 24" O.C.
04 20 00.X01	CAVITY MORTAR CONTROL.
04 20 00.X10	CAVITY MORTAR CONTROL MESH PANEL.
04 20 00.X11	CAVITY MORTAR CONTROL MORTAR DIVERTER.
04 20 00.Z01	CONTINUOUS TERMINATION BAR AND SEALANT.

KEYED NOTES WALL SECTION

Key Value	Keynote Text
04 43 00.A1	MASONRY ANCHOR SELECTED AND INSTALLED BY MASONRY MANUFACTURE.
04 43 00.P01	STONE JOINT PIN ANCHOR. EPOXY PIN INTO CAST STONE AND ATTACH TO BUILDING FLOOR SLAB
04 72 00.A04	ST-01 CAST STONE SILL (SP-1) -REFERENCE EXTERIOR ELEVATIONS AND STONE BANDING PROFILES FOR TYPE AND DIMENSIONS. SHEET A006
04 72 00.A05	ST-01 CAST STONE SILL (SP-2) -REFERENCE EXTERIOR ELEVATIONS AND STONE BANDING PROFILES FOR TYPE AND DIMENSIONS. SHEET A006
04 72 00.A07	ST-01 CAST STONE SILL (SP-4) -REFERENCE EXTERIOR ELEVATIONS AND STONE BANDING PROFILES FOR TYPE AND DIMENSIONS. SHEET A006
05 05 23.A01	3/4" Ø ANCHOR BOLT & 1 1/2" WASHERS @ 48" O.C. MAX.(MIN 7" EMBED). MIN (2) BOLTS PER BOARD & WITHIN 12" OF EACH END OR SPLICE.
05 05 23.B02	1" Ø THRU BOLT, 24" O.C. (MAX.). COUNTER SINK BOLT HEAD INTO LEDGER BOARD.
05 12 00.A01.1	STRUCTURAL STEEL COLUMN. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.1A	3/8" THICK ALUMINUM PLATE WITH A WELDED 3/8" THICK, 4" WIDE ALUMINUM BAR SEE STRUC. DWGS.
05 12 00.A01.2	STRUCTURAL STEEL BEAM. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.4	STRUCTURAL STEEL ANGLE. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.6	STRUCTURAL TUBULAR STEEL BEAM. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.12	STRUCTURAL STEEL LINTEL. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.17	STRUCTURAL TUBULAR STEEL COLUMN. -SEE STRUCTURAL DRAWINGS.
05 31 00.A01	9/16" CORRUGATED METAL DECKING. -SEE STRUCTURAL DRAWINGS.
05 31 00.B02	1 1/2" STEEL DECKING. -SEE STRUCTURAL DRAWINGS.
05 40 00 A01.2B	3/4" KNIGHT HCI CLADDING ATTACHMENT.
05 40 00 E01	CONTINUOUS METAL STUD "C" RUNNER TRACK.
05 40 00 E02	CONTINUOUS METAL STUD DEFLECTION HEAD TRACK. -REFERENCE APPLICABLE DETAILS.
05 40 00 F01	METAL STUD SUPPORT CLIP. -SEE STRUCTURAL DRAWINGS.
05 40 00 M08	CONT. 2" X 2" METAL TRIM FRAMING ANGLE.
05 40 00.A01.1A	6" STRUCTURAL COLD-FORMED METAL STUD FRAMING @ 16" O.C. W/ R-19 (MIN.) BATT INSULATION. -SEE STRUCTURAL DRAWINGS.
05 40 00.A01.1G	2 1/2" COLD-FORMED METAL STUD FRAMING @ 16" O.C.
05 40 00.A01.1O	3 5/8" STRUCTURAL COLD-FORMED METAL STUD FRAMING @ 16" O.C. -SEE STRUCTURAL DRAWINGS.
05 40 00.R04	3"X 3"GALVANIZED COLD ROLLED METAL ANGLE GAUGE SIZED BY METAL FRAMING DELEGATED DESIGNER.
05 40 00.R10	1 1/2" X 2" GALVANIZED COLD ROLLED METAL ANGLE GAUGE SIZED BY METAL FRAMING DELEGATED DESIGNER.
05 51 00.A01.1	PREFABRICATED STEEL PAN STAIR W/ CONCRETE FILLED TREADS.
05 52 13.A01.02	1 1/4" NOM. DIA. STEEL PIPE WALL MOUNTED HANDRAIL ATTACHED TO WALL W/ MOUNTING BRACKETS @ 8'-0" O.C. (MAX.). NOTE: RETURN HANDRAIL ENDS TO WALL. -SEE APPLICABLE DETAILS.
06 11 00.F04	5/8" CONT. (FIRE RETARDANT TREATED) PLYWOOD BLOCKING/NAILER.
06 11 00.I01	CONT. 1X2 (NOM.) FIRE RETARDANT TREATED (FRT) WOOD BLOCKING/NAILER.
06 11 00.I12	CONT. 2X8 (NOM.) FIRE RETARDANT TREATED (FRT) WOOD BLOCKING/NAILER.
06 11 00.J04	CONT. FIRE RETARDANT TREATED (FRT) WOOD BLOCKING/NAILER CUT FROM 1X8 (NOM.).
06 11 00.J05	CONT. FIRE RETARDANT TREATED (FRT) WOOD BLOCKING/NAILER CUT FROM 1X10 (NOM.).
06 16 00.B08	3/4" TYPE "CDX" PLYWOOD SHEATHING AND/OR NAILER.
06 16 43.A02	5/8" EXTERIOR FIBERGLASS MAT FACED GYPSUM WALL BOARD SHEATHING.
06 16 43.A03	1/2" EXTERIOR FIBERGLASS MAT FACED IMPACT-RATED GYPSUM ROOF COVER BOARD.
06 16 43.A04	5/8" COVER BOARD.
07 21 00.A01.4	1" THK. (EPS) EXPANDED POLYSTYRENE BOARD INSULATION.
07 21 00.A11	2" THK. (R-10 MIN.) EXTRUDED POLYSTYRENE (XPS) RIGID BOARD INSULATION.
07 21 00.A12	2" THK (R-8.4 MIN.) EXTRUDED POLYSTYRENE (XPS) RIGID BOARD PERIMETER INSULATION.
07 21 00.A13	3/4" THK (R-3.9 MIN.) EXTRUDED POLYSTYRENE (XPS) RIGID BOARD PERIMETER INSULATION.
07 21 00.B01.4	6 1/4" R-19 BATT INSULATION.
07 21 00.F02	2" THK. MINERAL WOOL FIBER BOARD INSULATION.
07 21 00.G02	3.5" W. CLOSED-CELL POLYETHYLENE FOAM SILL SEALER.
07 21 00.G03	5.5" W. CLOSED-CELL POLYETHYLENE FOAM SILL SEALER.
07 25 00.A01	WEATHER BARRIER
07 25 00.I01	SELF-ADHERING RUBBERIZED ASPHALT FLASHING. INSTALL IN ACCORDANCE W/ MANUFACTURER'S INSTALLATION INSTRUCTIONS.
07 25 00.K01	PREFORMED/PREFABRICATED END DAM. SET IN MASTIC IF FLASHING IS NOT SELF-ADHERING. END DAM TO BE PLACED PRIOR TO THROUGH WALL FLASHING
07 26 00.A03	15 MIL. VAPOR RETARDER/BARRIER.
07 42 13.A01	RED METAL COMPOSITE MATERIAL (MCM-01) SHEET. -SEE EXT. BLDG. MTLS. LEGEND.
07 42 13.A02	MICA MNC CLEAR METAL COMPOSITE MATERIAL (MCM-02) SHEET. -SEE EXT. BLDG. MTLS. LEGEND.
07 42 13.A05	MCM ANCHOR, CLIPS AND ACCESSORIES.
07 42 13.A08	MCM HORIZONTAL ANCHOR JOINT CLIP.
07 42 13.A09	MCM VERTICAL ANCHOR JOINT CLIP.
07 42 13.A14	MCM RAINSCREEN PANEL COPING. PROVIDE BACKER ROD & SEALANT IN ALL SKYWARD JOINTS. SEALANT COLOR TO MATCH MCM COLOR UNLESS OTHERWISE INDICATED.
07 42 13.B01	HORIZONTAL RIBBED (MTL-03) METAL WALL PANEL CONCEALED FASTENED. -REFERENCE EXTERIOR BUILDING MATERIALS LEGEND AND APPLICABLE WALL SECTIONS AND DETAILS.
07 48 00.A07	2" THERMABRACKET-D RAINSCREEN ATTACHMENT BRACKET BY KNIGHTWALL OR ARCHITECT APPROVED EQUAL.
07 54 00.A02.0	THERMOPLASTIC POLYOLEFIN (TPO) MEMBRANE ROOFING
07 54 00.A02.1	TPO MEMBRANE.
07 54 00.D02.5	METAL TERMINATION BAR.
07 54 00.Y01	ROOF SYSTEM TYPE A: FULLY ADHERED TPO MEMBRANE ROOFING OVER 1/2" THK. COVER BOARD ATTACHED (2) LAYERS OF 2.6"THK. (R-15.0 MIN.) RIGID ROOF INSUL ATTACHED TO 1 1/2" MTL ROOF DECK. (NOTE INSTALL ALL ROOF INSULATION AND TAPERED CRICKET INSULATION PRIOR TO INSTALLATION OF TOP COVERBOARD).
07 54 00.Y07	ROOF SYSTEM TYPE B: FULLY ADHERED TPO MEMBRANE ROOFING OVER 1/2" THK. COVER BOARD ATTACHED TO 3/4" MIN. TAPERED RIGID ROOF INSULATION OVER (2) LAYERS OF 2.6"THK. (R-15.0 MIN.) RIGID ROOF INSUL ATTACHED TO 9/16" MTL ROOF DECK.
07 62 00.A02.1	PRE-FINISHED METAL FLASHING AND/OR TRIM FINISH TO MATCH ADJACENT METAL PANEL.
07 62 00.A02.3	PRE-FINISHED AJ3 "J" CHANNEL AND/OR TRIM FINISH TO MATCH ADJACENT METAL PANEL.
07 62 00.A11.0	CLEAR ANODIZED ALUMINUM SILL FLASHING TO MATCH ALUM. STOREFRONT.
07 71 23.B01	PREFABRICATED CREATIVE DESIGN REVEAL METAL COPING (MTL-01) W/ CONT. CLEAT BY METAL-ERA.
07 90 05.A04.02	3/8" W. BACKER ROD AND SEALANT.
07 90 05.A04.03	1/2" W. BACKER ROD & SEALANT.
07 90 05.A04.07	1" W. BACKER ROD & SEALANT.
07 90 05.B02	CONT. 1/4" W. SEALANT JOINT. COLOR TO MATCH ADJACENT MATERIAL UNLESS OTHERWISE INDICATED.
07 90 05.B03	CONT. 3/8" W. SEALANT JOINT. COLOR TO MATCH ADJACENT MATERIAL UNLESS OTHERWISE INDICATED.
08 33 23.A01	OVERHEAD COILING DOOR. -REFERENCED DOOR SCHEDULE FOR TYPE AND SIZE.
08 36 13.B01	OVERHEAD SECTIONAL DOOR. -SEE DOOR SCHEDULE.
08 43 13.A01	2" X 4 1/2" THERMALLY BROKEN ALUMINUM STOREFRONT SYSTEM W/ CENTER SET 1" INSULATING GLAZING. -REFERENCE EXTERIOR ELEVATIONS OR FRAME TYPE ELEVATIONS FOR GLAZING TYPES.
08 43 13.A02	1/2" TEMP. GLASS WITH ACID ETCHED ON ONE SIDE.
08 43 13.A05	2" X 4 1/2" THERMALLY BROKEN ALUMINUM STOREFRONT HEAD EXTRUSION W/ HEAD RECEPTOR. -REFERENCE HEAD AND JAMB DETAILS, EXTERIOR ELEVATIONS OR FRAME TYPE ELEVATIONS FOR GLAZING TYPES.
08 43 13.C01	ALUMINUM STOREFRONT ENTRY DOOR. -SEE DOOR & GLAZING SCHEDULES.
08 44 13.A01	2 1/2" X 10 1/8" ALUMINUM CURTAIN WALL SYSTEM W/ 1" INSULATED GLAZING. -REFERENCE EXTERIOR ELEVATIONS AND/OR FRAME TYPE ELEVATIONS FOR GLAZING TYPES.
08 71 00.B01	DOOR BOTTOM SWEEP. PEMKO 29326V OR ARCHITECT APPROVED EQUAL. -SEE DOOR HARDWARE SCHEDULE FOR FINISH.
08 80 00.01E	GLAZING TYPE "GS", 1" INSULATED GLAZING. -REFERENCE FRAME TYPE ELEVATIONS AND GLASS LITE SCHEDULE FOR GLAZING TYPE.
09 21 16.A01.10	3 5/8" METAL STUDS/FRAMING @ 16" O.C. (MAX.).
09 21 16.A01.14	6" METAL STUDS/FRAMING @ 16" O.C. (MAX.)
09 21 16.C01.04	5/8" THK. PAPER FACED GYPSUM WALL BOARD.
09 21 16.C08.04	WOOD SHIPLAP PANELING & WOOD TRIM. SEE FINISH SCHEDULE.
09 21 16.D01	SUSPENDED GYPSUM BOARD CEILING SYSTEM: 5/8" GYPSUM BOARD ATTACHED TO DRYWALL GRID SYSTEM.
09 21 16.E01	CONT. NO. 2008 "L"-TRIM TYP.
09 21 16.E04	CONT. CORNER BEAD TYP.
09 22 26.D01	12 GA. HANGER WIRE TYP.
09 51 00.A01	LAY-IN ACOUSTICAL PANEL CEILING AND METAL TEE GRID SUSPENSION SYSTEM -SEE INTERIOR FINISH SCHEDULE.
09 65 00.A01.01	RESILIENT BASE AS SCHEDULED. -REFER TO FLOOR FINISH PLAN AND FINISH SCHEDULE.
10 14 00.A01	WALL MOUNTED DIMENSIONAL LETTER SIGNAGE BY OTHERS. G.C. TO COORDINATE SIGNAGE LOCATION W/ SIGNAGE VENDOR /SUPPLIER AND PROVIDE BLOCKING IN WALL AS REQ'D. FOR ATTACHMENT OF SIGN. -REFERENCE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.
10 22 23.A01	OPERABLE PARTITION. -REFERENCE APPLICABLE FLOOR PLANS, SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION.
10 71 13 A.01	GEOLAM PLANEO 6040 COMPOSITE SUNSHADE(40MM X 60MM) WOOD POLYMER COMPOSITE (TEAK).
10 71 13 A.02	GEOLAM PLANEO 4061 COMPOSITE SUNSHADE (300MM X 100MM) WOOD-POLYMER COMPOSITE (TEAK)
10 71 13 A.03	GEOLAM PLANEO 6033 COMPOSITE SUNSHADE (300MM X 100MM) WOOD-POLYMER COMPOSITE (TEAK)
12 36 61.B01	1/2" THK. SOLID SURFACE WINDOW SILL. -REFERENCE INTERIOR FINISH SCHEDULE.
13 34 19 A01.05	6"h LONGBOARD TONGUE & GROOVE EXTERIOR SOFFIT LIGHT BAMBOO.
26 56 33.A01	LIGHT BOLLARD. -SEE ELECTRICAL DRAWINGS.
33 46 13.A02	4" PERFORATED DRAIN PIPE SURROUNDED BY 1" CLEAN CRUSHED ROCK PLACED A MINIMUM OF 6 INCHES IN ALL DIRECTIONS AROUND PIPE, ENCASED IN A MIRAFI 140N SYNTHETIC FILTER FABRIC OR ARCHITECT APPROVED EQUAL. REFERENCE CIVIL AND/OR PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

A1 WALL SECTION WEST @ BOARD RM. 105
3/4" = 1'-0"

A2 WALL SECTION WEST @ DISPLAY CASE
3/4" = 1'-0"

A3 WALL SECTION WEST @ STOREFRONT 3
3/4" = 1'-0"

A5 WALL SECTION WEST @ VESTIBULE 100
3/4" = 1'-0"

SCALE: 3" = 1'-0" 1' 0 6" 3"
SCALE: 1 1/2" = 1'-0" 2' 0 1' 6" 3"
SCALE: 1" = 1'-0" 2' 0 1' 6" 3"
SCALE: 3/4" = 1'-0" 2' 0 1' 16" 24"
SCALE: 1/2" = 1'-0" 2' 0 1' 16" 32"
SCALE: 3/8" = 1'-0" 2' 0 1' 8" 16"
SCALE: 1/4" = 1'-0" 2' 0 1' 8" 16"
SCALE: 3/16" = 1'-0" 2' 0 1' 8" 16"
SCALE: 3/32" = 1'-0" 2' 0 1' 8" 16"
SCALE: 1/16" = 1'-0" 2' 0 1' 8" 16"

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Proposed:
CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE
360/340 ECOLOGY DRIVE
ST. PETERS, MO 63376

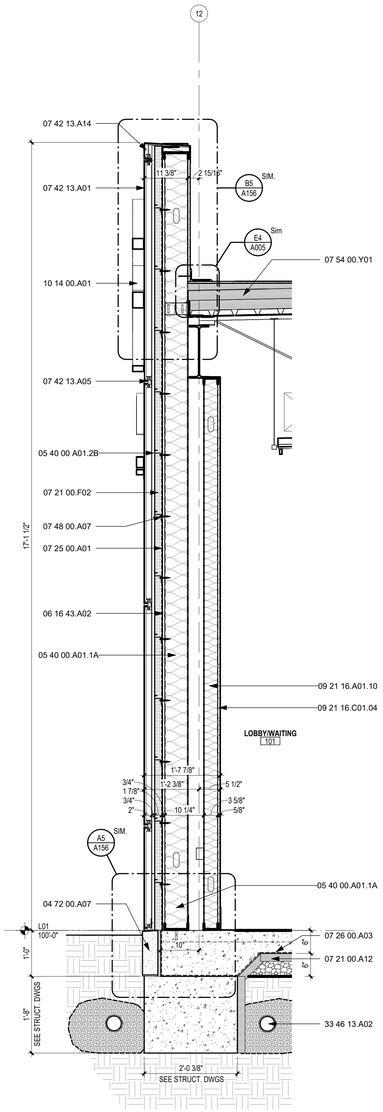
No.	Revision	Date

WALL SECTIONS

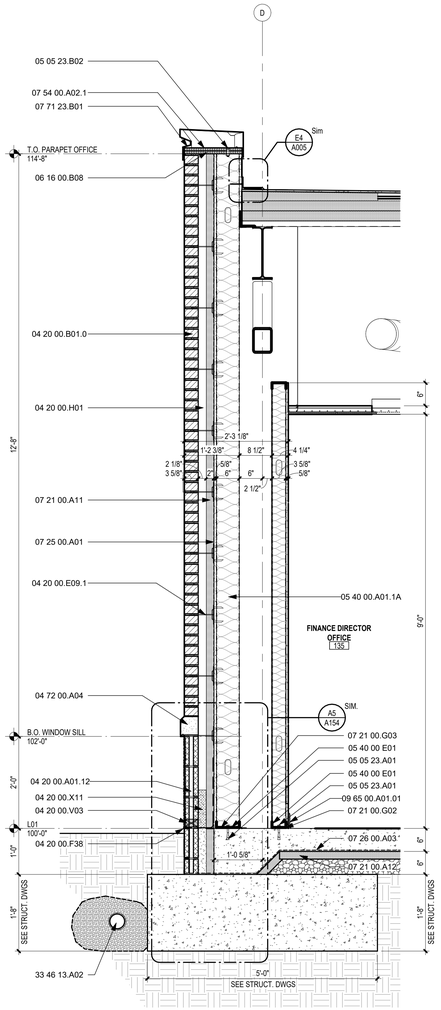
Project No.
23121

Sheet No.
A136

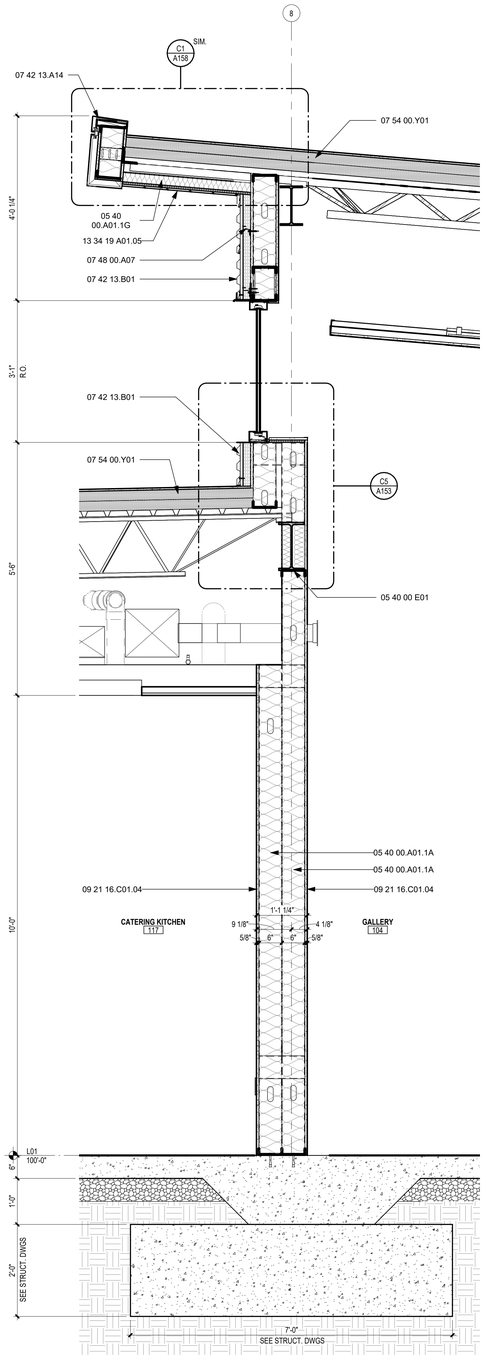
Date
09/16/2025



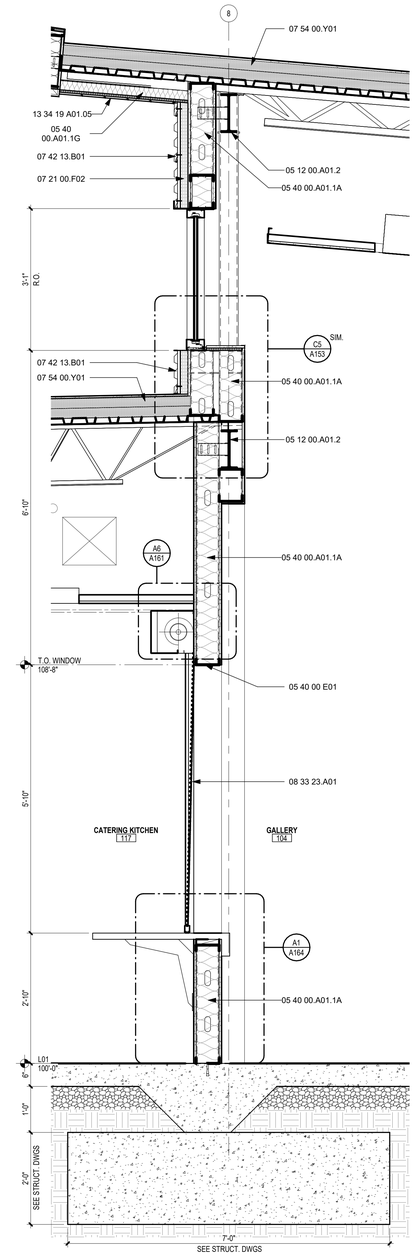
A1 WALL SECTION NORTH @ LOBBY
3/4" = 1'-0"



A2 WALL SECTION WEST @ OFFICE 135
3/4" = 1'-0"



A3 WALL SECTION @ CATERING KITCHEN 117
3/4" = 1'-0"



A5 SECTION @ COILING DOOR - KITCHEN
3/4" = 1'-0"

KEYED NOTES WALL SECTION

Key Value	Keynote Text
03 30 00.A05.01	CAST-IN-PLACE CONCRETE FOOTING. -SEE STRUCTURAL DRAWINGS.
03 30 00.A05.09	CAST-IN PLACE CONCRETE FLOOR SLAB. -SEE STRUCTURAL DRAWINGS.
04 20 00.A01.1E	4" X 8" X 16" (NOM.). SINGLE BULL-NOSE CONCRETE BLOCK (C.M.U.). -SEE PARTITION TYPE FOR FIRE RATING.
04 20 00.A01.12	(CMU-01) 4"X 8"X 16" (NOM.). SPLIT FACE CONCRETE BLOCK (C.M.U.). -SEE PARTITION TYPE FOR FIRE RATING.
04 20 00.A2.01	4" X 4" X 16" (NOM) CONCRETE BLOCK (C.M.U) GROUT SOLID
04 20 00.A2.03	4" X 8" X 16" (NOM) CONCRETE BLOCK (C.M.U) GROUT SOLID
04 20 00.B01.0	FACING BRICK. -BRK-01 REFERENCE EXTERIOR FINISH LEGEND.
04 20 00.D03	GROUT.
04 20 00.E09.1	TWO-PIECE GALV. METAL MASONRY VENEER ANCHOR.
04 20 00.F18	RUBBERIZED ASPHALT FLASHING. INSTALL IN ACCORDANCE W/ MANUFACTURER'S INSTALLATION INSTRUCTIONS.
04 20 00.F38	CONT. STAINLESS STEEL FLASHING/DRIP EDGE.
04 20 00.H01	AIR CAVITY.
04 20 00.V03	POLYESTER MESH WEEPS @ 24" O.C.
04 20 00.X01	CAVITY MORTAR CONTROL.
04 20 00.X10	CAVITY MORTAR CONTROL MESH PANEL.
04 20 00.X11	CAVITY MORTAR CONTROL MORTAR DIVERTER.
04 20 00.Z01	CONTINUOUS TERMINATION BAR AND SEALANT.

KEYED NOTES WALL SECTION

Key Value	Keynote Text
04 43 00.A1	MASONRY ANCHOR SELECTED AND INSTALLED BY MASONRY MANUFACTURE.
04 43 00.P01	STONE JOINT PIN ANCHOR. EPOXY PIN INTO CAST STONE AND ATTACH TO BUILDING FLOOR SLAB
04 72 00.A04	ST-01 CAST STONE SILL (SP-1) -REFERENCE EXTERIOR ELEVATIONS AND STONE BANDING PROFILES FOR TYPE AND DIMENSIONS. SHEET A006
04 72 00.A05	ST-01 CAST STONE SILL (SP-2) -REFERENCE EXTERIOR ELEVATIONS AND STONE BANDING PROFILES FOR TYPE AND DIMENSIONS. SHEET A006
04 72 00.A07	ST-01 CAST STONE SILL (SP-4) -REFERENCE EXTERIOR ELEVATIONS AND STONE BANDING PROFILES FOR TYPE AND DIMENSIONS. SHEET A006
05 05 23.A01	3/4" Ø ANCHOR BOLT & 1 1/2" WASHERS @ 48" O.C. MAX.(MIN 7" EMBED). MIN (2) BOLTS PER BOARD & WITHIN 12" OF EACH END OR SPLICE.
05 05 23.B02	1" Ø THRU BOLT, 24" O.C. (MAX.). COUNTER SINK BOLT HEAD INTO LEDGER BOARD.
05 12 00.A01.1	STRUCTURAL STEEL COLUMN. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.1A	3/8" THICK ALUMINUM PLATE WITH A WELDED 3/8" THICK, 4" WIDE ALUMINUM BAR SEE STRUC. DWGS.
05 12 00.A01.2	STRUCTURAL STEEL BEAM. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.4	STRUCTURAL STEEL ANGLE. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.6	STRUCTURAL TUBULAR STEEL BEAM. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.12	STRUCTURAL STEEL LINTEL. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.17	STRUCTURAL TUBULAR STEEL COLUMN. -SEE STRUCTURAL DRAWINGS.
05 31 00.A01	9/16" CORRUGATED METAL DECKING. -SEE STRUCTURAL DRAWINGS.
05 31 00.B02	1 1/2" STEEL DECKING. -SEE STRUCTURAL DRAWINGS.
05 40 00 A01.2B	3/4" KNIGHT HCI CLADDING ATTACHMENT.
05 40 00 E01	CONTINUOUS METAL STUD "C" RUNNER TRACK.
05 40 00 E02	CONTINUOUS METAL STUD DEFLECTION HEAD TRACK. -REFERENCE APPLICABLE DETAILS.
05 40 00 F01	METAL STUD SUPPORT CLIP. -SEE STRUCTURAL DRAWINGS.
05 40 00 M08	CONT. 2" X 2" METAL TRIM FRAMING ANGLE.
05 40 00.A01.1A	6" STRUCTURAL COLD-FORMED METAL STUD FRAMING @ 16" O.C. W/ R-19 (MIN.) BATT INSULATION. -SEE STRUCTURAL DRAWINGS.
05 40 00.A01.1G	2 1/2" COLD-FORMED METAL STUD FRAMING @ 16" O.C.
05 40 00.A01.1O	3 5/8" STRUCTURAL COLD-FORMED METAL STUD FRAMING @ 16" O.C. -SEE STRUCTURAL DRAWINGS.
05 40 00.R04	3"X 3"GALVANIZED COLD ROLLED METAL ANGLE GAUGE SIZED BY METAL FRAMING DELEGATED DESIGNER.
05 40 00.R10	1 1/2" X 2" GALVANIZED COLD ROLLED METAL ANGLE GAUGE SIZED BY METAL FRAMING DELEGATED DESIGNER.
05 51 00.A01.1	PREFABRICATED STEEL PAN STAIR W/ CONCRETE FILLED TREADS.
05 52 13.A01.02	1 1/4" NOM. DIA. STEEL PIPE WALL MOUNTED HANDRAIL ATTACHED TO WALL W/ MOUNTING BRACKETS @ 8'-0" O.C. (MAX.). NOTE: RETURN HANDRAIL ENDS TO WALL. -SEE APPLICABLE DETAILS.
06 11 00.F04	5/8" CONT. (FIRE RETARDANT TREATED) PLYWOOD BLOCKING/NAILER.
06 11 00.I01	CONT. 1X2 (NOM.) FIRE RETARDANT TREATED (FRT) WOOD BLOCKING/NAILER.
06 11 00.I12	CONT. 2X8 (NOM.) FIRE RETARDANT TREATED (FRT) WOOD BLOCKING/NAILER.
06 11 00.J04	CONT. FIRE RETARDANT TREATED (FRT) WOOD BLOCKING/NAILER CUT FROM 1X8 (NOM.).
06 11 00.J05	CONT. FIRE RETARDANT TREATED (FRT) WOOD BLOCKING/NAILER CUT FROM 1X3 (NOM.).
06 16 00.B08	3/4" TYPE "CDX" PLYWOOD SHEATHING AND/OR NAILER.
06 16 43.A02	5/8" EXTERIOR FIBERGLASS MAT FACED GYPSUM WALL BOARD SHEATHING.
06 16 43.A03	1/2" EXTERIOR FIBERGLASS MAT FACED IMPACT-RATED GYPSUM ROOF COVER BOARD.
06 16 43.A04	5/8" COVER BOARD.
07 21 00.A01.4	1" THK. (EPS) EXPANDED POLYSTYRENE BOARD INSULATION.
07 21 00.A11	2" THK. (R-10 MIN.) EXTRUDED POLYSTYRENE (XPS) RIGID BOARD INSULATION.
07 21 00.A12	2" THK (R-8.4 MIN.) EXTRUDED POLYSTYRENE (XPS) RIGID BOARD PERIMETER INSULATION.
07 21 00.A13	3/4" THK (R-3.9 MIN.) EXTRUDED POLYSTYRENE (XPS) RIGID BOARD PERIMETER INSULATION.
07 21 00.B01.4	6 1/4" R-19 BATT INSULATION.
07 21 00.F02	2" THK. MINERAL WOOL FIBER BOARD INSULATION.
07 21 00.G02	3.5" W. CLOSED-CELL POLYETHYLENE FOAM SILL SEALER.
07 21 00.G03	5.5" W. CLOSED-CELL POLYETHYLENE FOAM SILL SEALER.
07 25 00.A01	WEATHER BARRIER
07 25 00.I01	SELF-ADHERING RUBBERIZED ASPHALT FLASHING. INSTALL IN ACCORDANCE W/ MANUFACTURER'S INSTALLATION INSTRUCTIONS.
07 25 00.K01	PREFORMED/PREFABRICATED END DAM. SET IN MASTIC IF FLASHING IS NOT SELF-ADHERING. END DAM TO BE PLACED PRIOR TO THROUGH WALL FLASHING
07 26 00.A03	15 MIL. VAPOR RETARDER/BARRIER.
07 42 13.A01	RED METAL COMPOSITE MATERIAL (MCM-01) SHEET. -SEE EXT. BLDG. MTLS. LEGEND.
07 42 13.A02	MICA MNC CLEAR METAL COMPOSITE MATERIAL (MCM-02) SHEET. -SEE EXT. BLDG. MTLS. LEGEND.
07 42 13.A05	MCM ANCHOR, CLIPS AND ACCESSORIES.
07 42 13.A08	MCM HORIZONTAL ANCHOR JOINT CLIP.
07 42 13.A09	MCM VERTICAL ANCHOR JOINT CLIP.
07 42 13.A14	MCM RAINSCREEN PANEL COPING. PROVIDE BACKER ROD & SEALANT IN ALL SKYWARD JOINTS. SEALANT COLOR TO MATCH MCM COLOR UNLESS OTHERWISE INDICATED.
07 42 13.B01	HORIZONTAL RIBBED (MTL-03) METAL WALL PANEL CONCEALED FASTENED. -REFERENCE EXTERIOR BUILDING MATERIALS LEGEND AND APPLICABLE WALL SECTIONS AND DETAILS.
07 48 00.A07	2" THERMABRACKET-D RAINSCREEN ATTACHMENT BRACKET BY KNIGHTWALL OR ARCHITECT APPROVED EQUAL.
07 54 00.A02.0	THERMOPLASTIC POLYOLEFIN (TPO) MEMBRANE ROOFING
07 54 00.A02.1	TPO MEMBRANE
07 54 00.D02.5	METAL TERMINATION BAR.
07 54 00.Y01	ROOF SYSTEM TYPE A: FULLY ADHERED TPO MEMBRANE ROOFING OVER 1/2" THK. COVER BOARD ATTACHED (2) LAYERS OF 2.6"THK. (R-15.0 MIN.) RIGID ROOF INSUL ATTACHED TO 1 1/2" MTL ROOF DECK. (NOTE INSTALL ALL ROOF INSULATION AND TAPERED CRICKET INSULATION PRIOR TO INSTALLATION OF TOP COVERBOARD).
07 54 00.Y07	ROOF SYSTEM TYPE B: FULLY ADHERED TPO MEMBRANE ROOFING OVER 1/2" THK. COVER BOARD ATTACHED TO 3/4" MIN. TAPERED RIGID ROOF INSULATION OVER (2) LAYERS OF 2.6"THK. (R-15.0 MIN.) RIGID ROOF INSUL ATTACHED TO 9/16" MTL ROOF DECK.
07 62 00.A02.1	PRE-FINISHED METAL FLASHING AND/OR TRIM FINISH TO MATCH ADJACENT METAL PANEL.
07 62 00.A02.3	PRE-FINISHED AJ3 "J" CHANNEL AND/OR TRIM FINISH TO MATCH ADJACENT METAL PANEL.
07 62 00.A11.0	CLEAR ANODIZED ALUMINUM SILL FLASHING TO MATCH ALUM. STOREFRONT.
07 71 23.B01	PREFABRICATED CREATIVE DESIGN REVEAL METAL COPING (MTL-01) W/ CONT. CLEAT BY METAL-ERA.
07 90 05.A04.02	3/8" W. BACKER ROD AND SEALANT.
07 90 05.A04.03	1/2" W. BACKER ROD & SEALANT.
07 90 05.A04.07	1"W. BACKER ROD & SEALANT.
07 90 05.B02	CONT. 1/4" W. SEALANT JOINT. COLOR TO MATCH ADJACENT MATERIAL UNLESS OTHERWISE INDICATED.
07 90 05.B03	CONT. 3/8" W. SEALANT JOINT. COLOR TO MATCH ADJACENT MATERIAL UNLESS OTHERWISE INDICATED.
08 33 23.A01	OVERHEAD COILING DOOR. -REFERENCED DOOR SCHEDULE FOR TYPE AND SIZE.
08 36 13.B01	OVERHEAD SECTIONAL DOOR. -SEE DOOR SCHEDULE.
08 43 13.A01	2" X 4 1/2" THERMALLY BROKEN ALUMINUM STOREFRONT SYSTEM W/ CENTER SET 1" INSULATING GLAZING. -REFERENCE EXTERIOR ELEVATIONS OR FRAME TYPE ELEVATIONS FOR GLAZING TYPES.
08 43 13.A02	1/2" TEMP. GLASS WITH ACID ETCHED ON ONE SIDE.
08 43 13.A05	2" X 4 1/2" THERMALLY BROKEN ALUMINUM STOREFRONT HEAD EXTRUSION W/ HEAD RECEPTOR. -REFERENCE HEAD AND JAMB DETAILS, EXTERIOR ELEVATIONS OR FRAME TYPE ELEVATIONS FOR GLAZING TYPES.
08 43 13.C01	ALUMINUM STOREFRONT ENTRY DOOR. -SEE DOOR & GLAZING SCHEDULES.
08 44 13.A01	2 1/2" X 10 1/8" ALUMINUM CURTAIN WALL SYSTEM W/ 1" INSULATED GLAZING. -REFERENCE EXTERIOR ELEVATIONS AND/OR FRAME TYPE ELEVATIONS FOR GLAZING TYPES.
08 71 00.B01	DOOR BOTTOM SWEEP. PEMKO 29326V OR ARCHITECT APPROVED EQUAL. -SEE DOOR HARDWARE SCHEDULE FOR FINISH.
08 80 00.01E	GLAZING TYPE "GS", 1" INSULATED GLAZING. -REFERENCE FRAME TYPE ELEVATIONS AND GLASS LITE SCHEDULE FOR GLAZING TYPE.
09 21 16.A01.10	3 5/8" METAL STUDS/FRAMING @ 16" O.C. (MAX.).
09 21 16.A01.14	6" METAL STUDS/FRAMING @ 16" O.C. (MAX.).
09 21 16.C01.04	5/8" THK. PAPER FACED GYPSUM WALL BOARD.
09 21 16.C08.04	WOOD SHIPLAP PANELING & WOOD TRIM. SEE FINISH SCHEDULE.
09 21 16.E01	SUSPENDED GYPSUM BOARD CEILING SYSTEM. 5/8" GYPSUM BOARD ATTACHED TO DRYWALL GRID SYSTEM.
09 21 16.E01	CONT. NO. 200B "L"-TRIM TYP.
09 21 16.E04	CONT. CORNER BEAD TYP.
09 22 26.D01	12 GA. HANGER WIRE TYP.
09 51 00.A01	LAY-IN ACOUSTICAL PANEL CEILING AND METAL TEE GRID SUSPENSION SYSTEM -SEE INTERIOR FINISH SCHEDULE.
09 65 00.A01.01	RESILIENT BASE AS SCHEDULED. -REFER TO FLOOR FINISH PLAN AND FINISH SCHEDULE.
10 14 00.A01	WALL MOUNTED DIMENSIONAL LETTER SIGNAGE BY OTHERS. G.C. TO COORDINATE SIGNAGE LOCATION W/ SIGNAGE VENDOR /SUPPLIER AND PROVIDE BLOCKING IN WALL AS REQ'D. FOR ATTACHMENT OF SIGN. -REFERENCE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.
10 22 23.A01	OPERABLE PARTITION. -REFERENCE APPLICABLE FLOOR PLANS, SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION.
10 71 13 A.01	GEOLAM PLANEO 6040 COMPOSITE SUNSHADE(40MM X 60MM) WOOD POLYMER COMPOSITE (TEAK).
10 71 13 A.02	GEOLAM PLANEO 4061 COMPOSITE SUNSHADE (300MM X 100MM) WOOD-POLYMER COMPOSITE (TEAK)
10 71 13 A.03	GEOLAM PLANEO 6033 COMPOSITE SUNSHADE (300MM X 100MM) WOOD-POLYMER COMPOSITE (TEAK)
12 36 61.B01	1/2" THK. SOLID SURFACE WINDOW SILL. -REFERENCE INTERIOR FINISH SCHEDULE.
13 34 19 A01.05	6"V LONGBOARD TONGUE & GROOVE EXTERIOR SOFFIT LIGHT BAMBOO.
26 56 33.A01	LIGHT BOLLARD. -SEE ELECTRICAL DRAWINGS.
33 46 13.A02	4" PERFORATED DRAIN PIPE SURROUNDED BY 1" CLEAN CRUSHED ROCK PLACED A MINIMUM OF 6 INCHES IN ALL DIRECTIONS AROUND PIPE, ENCASED IN A MIRAFI 140N SYNTHETIC FILTER FABRIC OR ARCHITECT APPROVED EQUAL. REFERENCE CIVIL AND/OR PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

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ST. PETERS, MO 63376
360/340 ECOLOGY DRIVE

No.	Revision	Date

WALL SECTIONS

Project No.
23121

Sheet No.
A137

Date
09/16/2025

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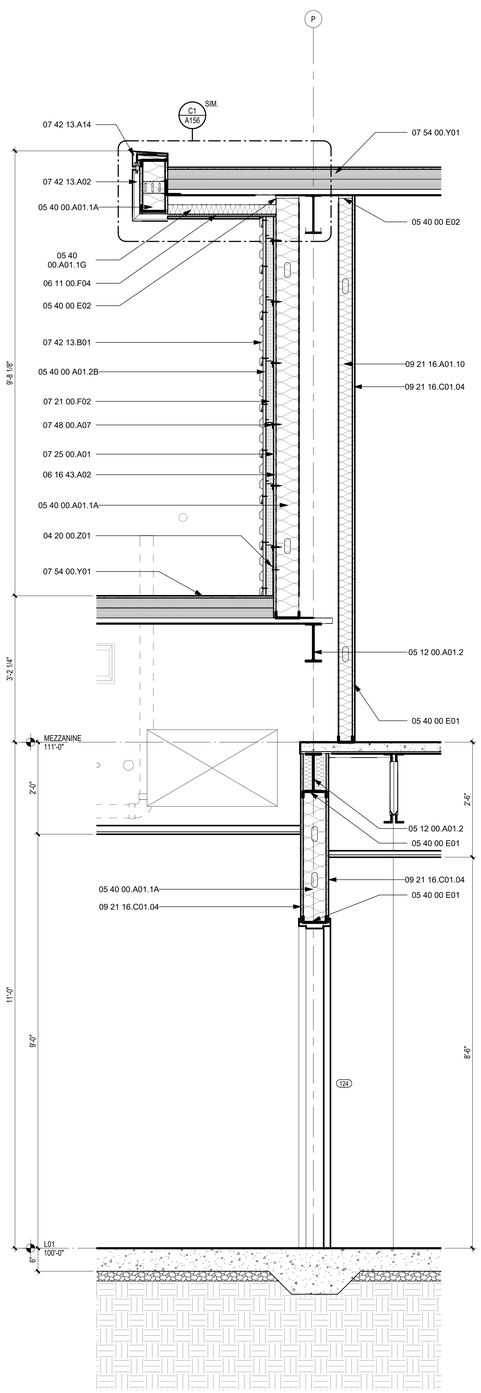
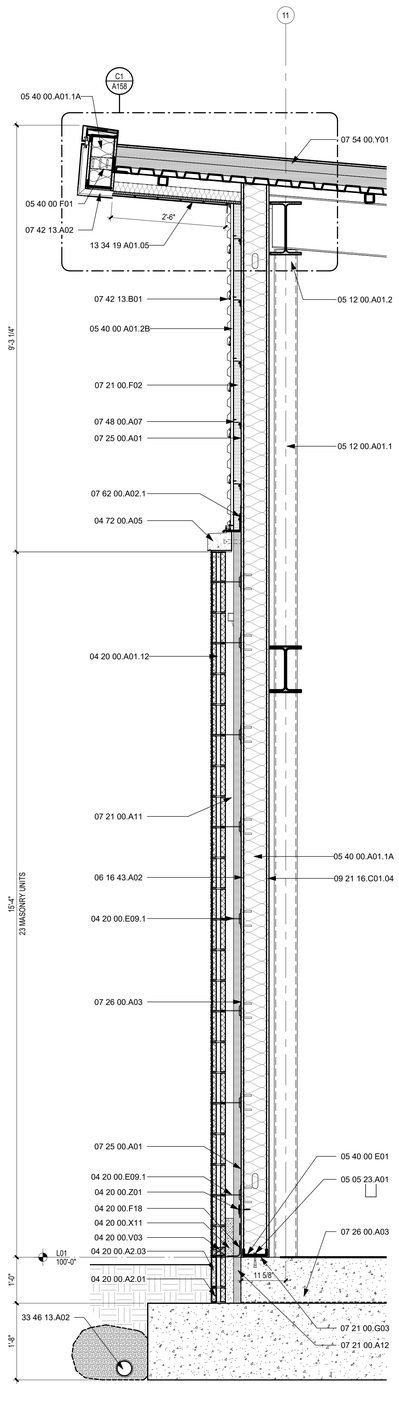


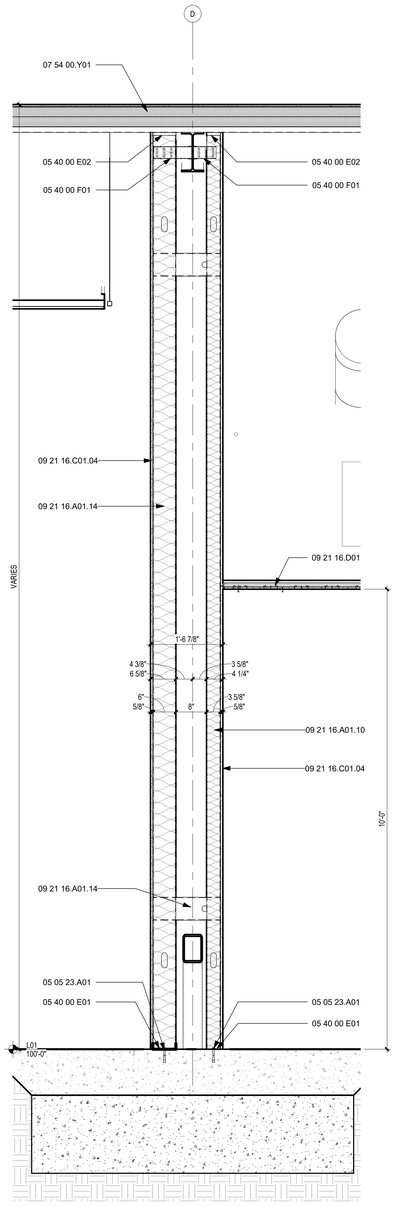
A1 WALL SECTION @ STORAGE 124

3/4" = 1'-0"



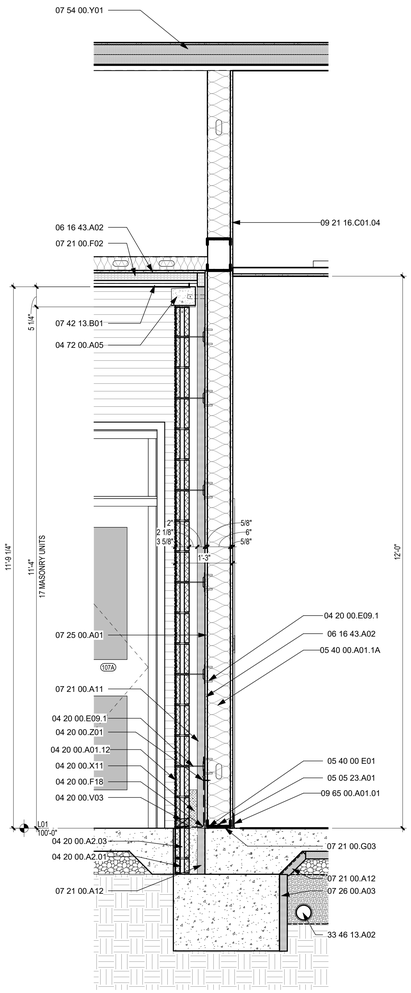
A2 WALL SECTION NORTH @ STORAGE 145

3/4" = 1'-0"



A3 WALL SECTION @ LOBBY/DISPLAY 103

3/4" = 1'-0"



A5 WALL SECTION @ STORAGE 108

3/4" = 1'-0"

07 26 00.A03

KEYED NOTES WALL SECTION

Key Value	Keynote Text
03 30 00.A05.01	CAST-IN-PLACE CONCRETE FOOTING. -SEE STRUCTURAL DRAWINGS.
03 30 00.A05.09	CAST-IN PLACE CONCRETE FLOOR SLAB. -SEE STRUCTURAL DRAWINGS.
04 20 00.A01.1E	4" X 8" X 16" (NOM.). SINGLE BULL-NOSE CONCRETE BLOCK (C.M.U.). -SEE PARTITION TYPE FOR FIRE RATING.
04 20 00.A01.12	(CMU-01) 4"X 8"X 16" (NOM.). SPLIT FACE CONCRETE BLOCK (C.M.U.). -SEE PARTITION TYPE FOR FIRE RATING.
04 20 00.A2.01	4" X 4" X 16" (NOM) CONCRETE BLOCK (C.M.U) GROUT SOLID
04 20 00.A2.03	4" X 8" X 16" (NOM) CONCRETE BLOCK (C.M.U) GROUT SOLID
04 20 00.B01.0	FACING BRICK. -BRK-01 REFERENCE EXTERIOR FINISH LEGEND.
04 20 00.D03	GROUT.
04 20 00.E09.1	TWO-PIECE GALV. METAL MASONRY VENEER ANCHOR.
04 20 00.F18	RUBBERIZED ASPHALT FLASHING. INSTALL IN ACCORDANCE W/ MANUFACTURER'S INSTALLATION INSTRUCTIONS.
04 20 00.F38	CONT. STAINLESS STEEL FLASHING/DRIP EDGE.
04 20 00.H01	AIR CAVITY.
04 20 00.V03	POLYESTER MESH WEEPS @ 24" O.C.
04 20 00.X01	CAVITY MORTAR CONTROL.
04 20 00.X10	CAVITY MORTAR CONTROL MESH PANEL.
04 20 00.X11	CAVITY MORTAR CONTROL MORTAR DIVERTER.
04 20 00.Z01	CONTINUOUS TERMINATION BAR AND SEALANT.

KEYED NOTES WALL SECTION

Key Value	Keynote Text
04 43 00.A1	MASONRY ANCHOR SELECTED AND INSTALLED BY MASONRY MANUFACTURE.
04 43 00.P01	STONE JOINT PIN ANCHOR. EPOXY PIN INTO CAST STONE AND ATTACH TO BUILDING FLOOR SLAB
04 72 00.A04	ST-01 CAST STONE SILL (SP-1) -REFERENCE EXTERIOR ELEVATIONS AND STONE BANDING PROFILES FOR TYPE AND DIMENSIONS. SHEET A006
04 72 00.A05	ST-01 CAST STONE SILL (SP-2) -REFERENCE EXTERIOR ELEVATIONS AND STONE BANDING PROFILES FOR TYPE AND DIMENSIONS. SHEET A006
04 72 00.A07	ST-01 CAST STONE SILL (SP-4) -REFERENCE EXTERIOR ELEVATIONS AND STONE BANDING PROFILES FOR TYPE AND DIMENSIONS. SHEET A006
05 05 23.A01	3/4" Ø ANCHOR BOLT & 1 1/2" WASHERS @ 48" O.C. MAX.(MIN 7" EMBED). MIN (2) BOLTS PER BOARD & WITHIN 12" OF EACH END OR SPLICE.
05 05 23.B02	1" Ø THRU BOLT, 24" O.C. (MAX.). COUNTER SINK BOLT HEAD INTO LEDGER BOARD.
05 12 00.A01.1	STRUCTURAL STEEL COLUMN. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.1A	3/8" THICK ALUMINUM PLATE WITH A WELDED 3/8" THICK, 4" WIDE ALUMINUM BAR SEE STRUC. DWGS.
05 12 00.A01.2	STRUCTURAL STEEL BEAM. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.4	STRUCTURAL STEEL ANGLE. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.6	STRUCTURAL TUBULAR STEEL BEAM. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.12	STRUCTURAL STEEL LINTEL. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.17	STRUCTURAL TUBULAR STEEL COLUMN. -SEE STRUCTURAL DRAWINGS.
05 31 00.A01	9/16" CORRUGATED METAL DECKING. -SEE STRUCTURAL DRAWINGS.
05 31 00.B02	1 1/2" STEEL DECKING. -SEE STRUCTURAL DRAWINGS.
05 40 00 A01.2B	3/4" KNIGHT HCI CLADDING ATTACHMENT.
05 40 00 E01	CONTINUOUS METAL STUD "C" RUNNER TRACK.
05 40 00 E02	CONTINUOUS METAL STUD DEFLECTION HEAD TRACK. -REFERENCE APPLICABLE DETAILS.
05 40 00 F01	METAL STUD SUPPORT CLIP. -SEE STRUCTURAL DRAWINGS.
05 40 00 M08	CONT. 2" X 2" METAL TRIM FRAMING ANGLE.
05 40 00.A01.1A	6" STRUCTURAL COLD-FORMED METAL STUD FRAMING @ 16" O.C. W/ R-19 (MIN.) BATT INSULATION. -SEE STRUCTURAL DRAWINGS.
05 40 00.A01.1G	2 1/2" COLD-FORMED METAL STUD FRAMING @ 16" O.C.
05 40 00.A01.1O	3 5/8" STRUCTURAL COLD-FORMED METAL STUD FRAMING @ 16" O.C. -SEE STRUCTURAL DRAWINGS.
05 40 00.R04	3" X 3" GALVANIZED COLD ROLLED METAL ANGLE GAUGE SIZED BY METAL FRAMING DELEGATED DESIGNER.
05 40 00.R10	1 1/2" X 2" GALVANIZED COLD ROLLED METAL ANGLE GAUGE SIZED BY METAL FRAMING DELEGATED DESIGNER.
05 51 00.A01.1	PREFABRICATED STEEL PAN STAIR W/ CONCRETE FILLED TREADS.
05 52 13.A01.02	1 1/4" NOM. DIA. STEEL PIPE WALL MOUNTED HANDRAIL ATTACHED TO WALL W/ MOUNTING BRACKETS @ 8'-0" O.C. (MAX.). NOTE: RETURN HANDRAIL ENDS TO WALL. -SEE APPLICABLE DETAILS.
06 11 00.F04	5/8" CONT. (FIRE RETARDANT TREATED) PLYWOOD BLOCKING/NAILER.
06 11 00.I01	CONT. 1X2 (NOM.) FIRE RETARDANT TREATED (FRT) WOOD BLOCKING/NAILER.
06 11 00.I12	CONT. 2X8 (NOM.) FIRE RETARDANT TREATED (FRT) WOOD BLOCKING/NAILER.
06 11 00.J04	CONT. FIRE RETARDANT TREATED (FRT) WOOD BLOCKING/NAILER CUT FROM 1X8 (NOM.).
06 11 00.J05	CONT. FIRE RETARDANT TREATED (FRT) WOOD BLOCKING/NAILER CUT FROM 1X6 (NOM.).
06 16 00.B08	3/4" TYPE "CDX" PLYWOOD SHEATHING AND/OR NAILER.
06 16 43.A02	5/8" EXTERIOR FIBERGLASS MAT FACED GYPSUM WALL BOARD SHEATHING.
06 16 43.A03	1/2" EXTERIOR FIBERGLASS MAT FACED IMPACT-RATED GYPSUM ROOF COVER BOARD.
06 16 43.A04	5/8" COVER BOARD.
07 21 00.A01.4	1" THK. (EPS) EXPANDED POLYSTYRENE BOARD INSULATION.
07 21 00.A11	2" THK. (R-10 MIN.) EXTRUDED POLYSTYRENE (XPS) RIGID BOARD INSULATION.
07 21 00.A12	2" THK (R-8.4 MIN.) EXTRUDED POLYSTYRENE (XPS) RIGID BOARD PERIMETER INSULATION.
07 21 00.A13	3/4" THK (R-3.9 MIN.) EXTRUDED POLYSTYRENE (XPS) RIGID BOARD PERIMETER INSULATION.
07 21 00.B01.4	6 1/4" R-19 BATT INSULATION.
07 21 00.F02	2" THK. MINERAL WOOL FIBER BOARD INSULATION.
07 21 00.G02	3.5" W. CLOSED-CELL POLYETHYLENE FOAM SILL SEALER.
07 21 00.G03	5.5" W. CLOSED-CELL POLYETHYLENE FOAM SILL SEALER.
07 25 00.A01	WEATHER BARRIER
07 25 00.I01	SELF-ADHERING RUBBERIZED ASPHALT FLASHING. INSTALL IN ACCORDANCE W/ MANUFACTURER'S INSTALLATION INSTRUCTIONS.
07 25 00.K01	PREFORMED/PREFABRICATED END DAM. SET IN MASTIC IF FLASHING IS NOT SELF-ADHERING. END DAM TO BE PLACED PRIOR TO THROUGH WALL FLASHING
07 26 00.A03	15 MIL. VAPOR RETARDER/BARRIER.
07 42 13.A01	RED METAL COMPOSITE MATERIAL (MCM-01) SHEET. -SEE EXT. BLDG. MTLS. LEGEND.
07 42 13.A02	MICA MNC CLEAR METAL COMPOSITE MATERIAL (MCM-02) SHEET. -SEE EXT. BLDG. MTLS. LEGEND.
07 42 13.A05	MCM ANCHOR, CLIPS AND ACCESSORIES.
07 42 13.A08	MCM HORIZONTAL ANCHOR JOINT CLIP.
07 42 13.A09	MCM VERTICAL ANCHOR JOINT CLIP.
07 42 13.A14	MCM RAINSCREEN PANEL COPING. PROVIDE BACKER ROD & SEALANT IN ALL SKYWARD JOINTS. SEALANT COLOR TO MATCH MCM COLOR UNLESS OTHERWISE INDICATED.
07 42 13.B01	HORIZONTAL RIBBED (MTL-03) METAL WALL PANEL CONCEALED FASTENED. -REFERENCE EXTERIOR BUILDING MATERIALS LEGEND AND APPLICABLE WALL SECTIONS AND DETAILS.
07 48 00.A07	2" THERMABRACKET-D RAINSCREEN ATTACHMENT BRACKET BY KNIGHTWALL OR ARCHITECT APPROVED EQUAL.
07 54 00.A02.0	THERMOPLASTIC POLYOLEFIN (TPO) MEMBRANE ROOFING
07 54 00.A02.1	TPO MEMBRANE.
07 54 00.D02.5	METAL TERMINATION BAR.
07 54 00.Y01	ROOF SYSTEM TYPE A: FULLY ADHERED TPO MEMBRANE ROOFING OVER 1/2" THK. COVER BOARD ATTACHED (2) LAYERS OF 2.6"THK. (R-15.0 MIN.) RIGID ROOF INSUL ATTACHED TO 1 1/2" MTL ROOF DECK. (NOTE INSTALL ALL ROOF INSULATION AND TAPERED CRICKET INSULATION PRIOR TO INSTALLATION OF TOP COVERBOARD).
07 54 00.Y07	ROOF SYSTEM TYPE B: FULLY ADHERED TPO MEMBRANE ROOFING OVER 1/2" THK. COVER BOARD ATTACHED TO 3/4" MIN. TAPERED RIGID ROOF INSULATION OVER (2) LAYERS OF 2.6"THK. (R-15.0 MIN.) RIGID ROOF INSUL ATTACHED TO 9/16" MTL ROOF DECK.
07 62 00.A02.1	PRE-FINISHED METAL FLASHING AND/OR TRIM FINISH TO MATCH ADJACENT METAL PANEL.
07 62 00.A02.3	PRE-FINISHED AJ3 "J" CHANNEL AND/OR TRIM FINISH TO MATCH ADJACENT METAL PANEL.
07 62 00.A11.0	CLEAR ANODIZED ALUMINUM SILL FLASHING TO MATCH ALUM. STOREFRONT.
07 71 23.B01	PREFABRICATED CREATIVE DESIGN REVEAL METAL COPING (MTL-01) W/ CONT. CLEAT BY METAL-ERA.
07 90 05.A04.02	3/8" W. BACKER ROD AND SEALANT.
07 90 05.A04.03	1/2" W. BACKER ROD & SEALANT.
07 90 05.A04.07	1" W. BACKER ROD & SEALANT.
07 90 05.B02	CONT. 1/4" W. SEALANT JOINT. COLOR TO MATCH ADJACENT MATERIAL UNLESS OTHERWISE INDICATED.
07 90 05.B03	CONT. 3/8" W. SEALANT JOINT. COLOR TO MATCH ADJACENT MATERIAL UNLESS OTHERWISE INDICATED.
08 33 23.A01	OVERHEAD COILING DOOR. -REFERENCED DOOR SCHEDULE FOR TYPE AND SIZE.
08 36 13.B01	OVERHEAD SECTIONAL DOOR. -SEE DOOR SCHEDULE.
08 43 13.A01	2" X 4 1/2" THERMALLY BROKEN ALUMINUM STOREFRONT SYSTEM W/ CENTER SET 1" INSULATING GLAZING. -REFERENCE EXTERIOR ELEVATIONS OR FRAME TYPE ELEVATIONS FOR GLAZING TYPES.
08 43 13.A02	1/2" TEMP. GLASS WITH ACID ETCHED ON ONE SIDE.
08 43 13.A05	2" X 4 1/2" THERMALLY BROKEN ALUMINUM STOREFRONT HEAD EXTRUSION W/ HEAD RECEPTOR. -REFERENCE HEAD AND JAMB DETAILS, EXTERIOR ELEVATIONS OR FRAME TYPE ELEVATIONS FOR GLAZING TYPES.
08 43 13.C01	ALUMINUM STOREFRONT ENTRY DOOR. -SEE DOOR & GLAZING SCHEDULES.
08 44 13.A01	2 1/2" X 10 1/8" ALUMINUM CURTAIN WALL SYSTEM W/ 1" INSULATED GLAZING. -REFERENCE EXTERIOR ELEVATIONS AND/OR FRAME TYPE ELEVATIONS FOR GLAZING TYPES.
08 71 00.B01	DOOR BOTTOM SWEEP. PEMKO 293265V OR ARCHITECT APPROVED EQUAL. -SEE DOOR HARDWARE SCHEDULE FOR FINISH.
08 80 00.01E	GLAZING TYPE "GS", 1" INSULATED GLAZING. -REFERENCE FRAME TYPE ELEVATIONS AND GLASS LITE SCHEDULE FOR GLAZING TYPE.
09 21 16.A01.10	3 5/8" METAL STUDS/FRAMING @ 16" O.C. (MAX.).
09 21 16.A01.14	6" METAL STUDS/FRAMING @ 16" O.C. (MAX.)
09 21 16.C01.04	5/8" THK. PAPER FACED GYPSUM WALL BOARD.
09 21 16.C08.04	WOOD SHIPLAP PANELING & WOOD TRIM. SEE FINISH SCHEDULE.
09 21 16.D01	SUSPENDED GYPSUM BOARD CEILING SYSTEM: 5/8" GYPSUM BOARD ATTACHED TO DRYWALL GRID SYSTEM.
09 21 16.E01	CONT. NO. 2008 "L"-TRIM TYP.
09 21 16.E04	CONT. CORNER BEAD TYP.
09 22 26.D01	12 GA. HANGER WIRE TYP.
09 51 00.A01	LAY-IN ACOUSTICAL PANEL CEILING AND METAL TEE GRID SUSPENSION SYSTEM -SEE INTERIOR FINISH SCHEDULE.
09 65 00.A01.01	RESILIENT BASE AS SCHEDULED. -REFER TO FLOOR FINISH PLAN AND FINISH SCHEDULE.
10 14 00.A01	WALL MOUNTED DIMENSIONAL LETTER SIGNAGE BY OTHERS. G.C. TO COORDINATE SIGNAGE LOCATION W/ SIGNAGE VENDOR /SUPPLIER AND PROVIDE BLOCKING IN WALL AS REQ'D. FOR ATTACHMENT OF SIGN. -REFERENCE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.
10 22 23.A01	OPERABLE PARTITION. -REFERENCE APPLICABLE FLOOR PLANS, SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION.
10 71 13 A.01	GEOLAM PLANEO 6040 COMPOSITE SUNSHADE(40MM X 60MM) WOOD POLYMER COMPOSITE (TEAK).
10 71 13 A.02	GEOLAM PLANEO 4061 COMPOSITE SUNSHADE (300MM X 100MM) WOOD-POLYMER COMPOSITE (TEAK)
10 71 13 A.03	GEOLAM PLANEO 6033 COMPOSITE SUNSHADE (300MM X 100MM) WOOD-POLYMER COMPOSITE (TEAK)
12 36 61.B01	1/2" THK. SOLID SURFACE WINDOW SILL. -REFERENCE INTERIOR FINISH SCHEDULE.
13 34 19 A01.05	6"h LONGBOARD TONGUE & GROOVE EXTERIOR SOFFIT LIGHT BAMBOO.
26 56 33.A01	LIGHT BOLLARD. -SEE ELECTRICAL DRAWINGS.
33 46 13.A02	4" PERFORATED DRAIN PIPE SURROUNDED BY 1" CLEAN CRUSHED ROCK PLACED A MINIMUM OF 6 INCHES IN ALL DIRECTIONS AROUND PIPE, ENCASED IN A MIRAFI 140N SYNTHETIC FILTER FABRIC OR ARCHITECT APPROVED EQUAL. REFERENCE CIVIL AND/OR PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

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ST. PETERS, MO 63376
360/240 ECOLOGY DRIVE

No.	Date	Revision

WALL SECTIONS

Project No.
23121

Sheet No.
A138

Date
09/16/2025

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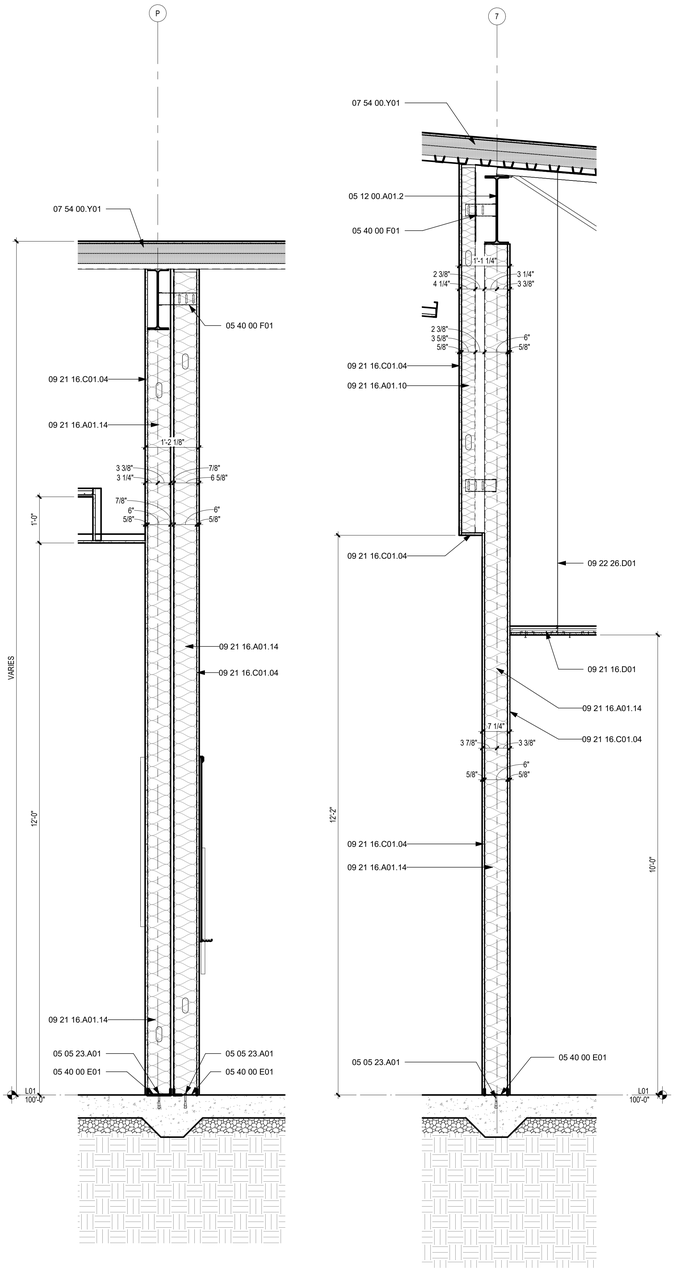
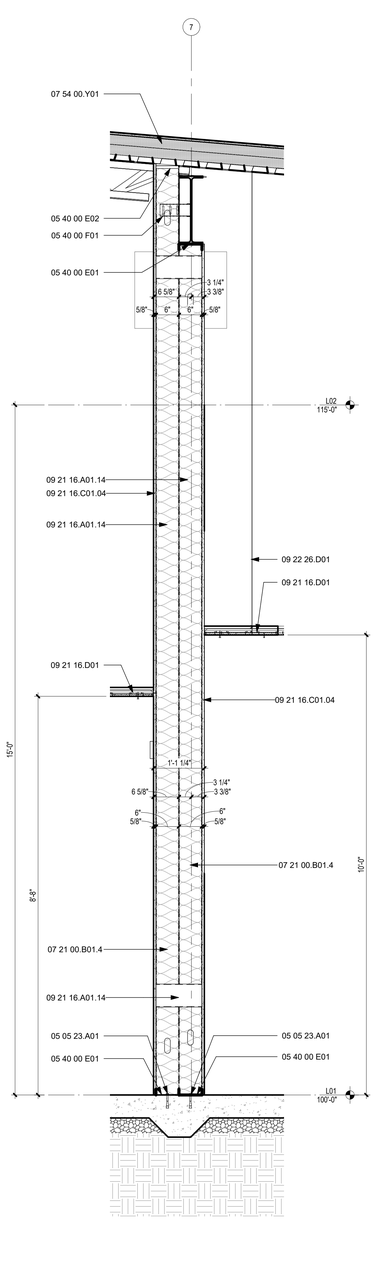
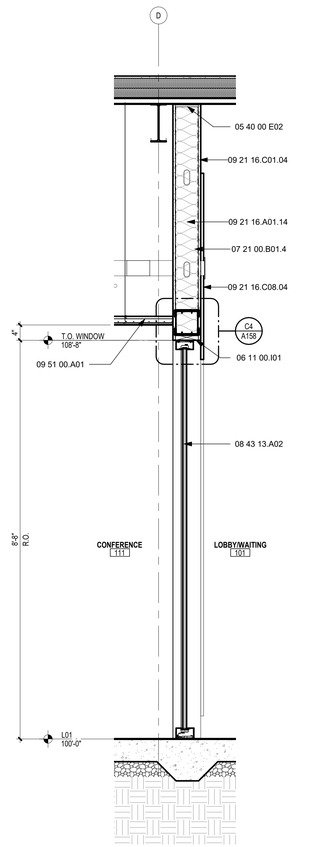


A1 WALL SECTION @ WARM ROOM 139
3/4" = 1'-0"

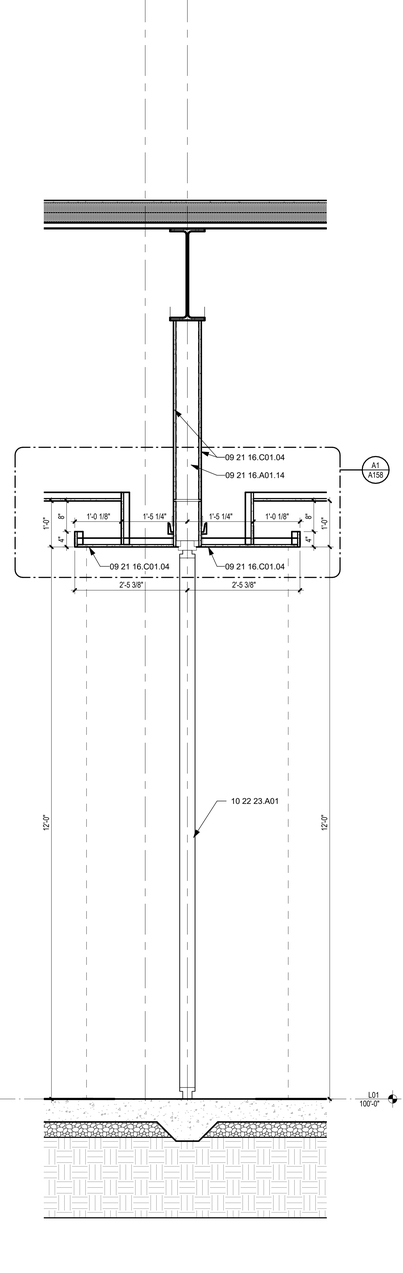
A2 WALL SECTION @ GALLERY 104
3/4" = 1'-0"



A3 WALL SECTION @ GALLERY 104
3/4" = 1'-0"



A4 SECTION @ CONF. SF 111
3/4" = 1'-0"



A5 WALL SECTION @ OPERABLE PARTITION
3/4" = 1'-0"

KEYED NOTES WALL SECTION

Key Value	Keynote Text
03 30 00.A05.01	CAST-IN-PLACE CONCRETE FOOTING. -SEE STRUCTURAL DRAWINGS.
03 30 00.A05.09	CAST-IN PLACE CONCRETE FLOOR SLAB. -SEE STRUCTURAL DRAWINGS.
04 20 00.A01.1E	4" X 8" X 16" (NOM.). SINGLE BULL-NOSE CONCRETE BLOCK (C.M.U.). -SEE PARTITION TYPE FOR FIRE RATING.
04 20 00.A01.12	(CMU-01) 4"X 8"X 16" (NOM.). SPLIT FACE CONCRETE BLOCK (C.M.U.). -SEE PARTITION TYPE FOR FIRE RATING.
04 20 00.A2.01	4" X 4" X 16" (NOM) CONCRETE BLOCK (C.M.U) GROUT SOLID
04 20 00.A2.03	4" X 8" X 16" (NOM) CONCRETE BLOCK (C.M.U) GROUT SOLID
04 20 00.B01.0	FACING BRICK. -BRK-01 REFERENCE EXTERIOR FINISH LEGEND.
04 20 00.D03	GROUT.
04 20 00.E09.1	TWO-PIECE GALV. METAL MASONRY VENEER ANCHOR.
04 20 00.F18	RUBBERIZED ASPHALT FLASHING. INSTALL IN ACCORDANCE W/ MANUFACTURER'S INSTALLATION INSTRUCTIONS.
04 20 00.F38	CONT. STAINLESS STEEL FLASHING/DRIP EDGE.
04 20 00.H01	AIR CAVITY.
04 20 00.V03	POLYESTER MESH WEEPS @ 24" O.C.
04 20 00.X01	CAVITY MORTAR CONTROL.
04 20 00.X10	CAVITY MORTAR CONTROL MESH PANEL.
04 20 00.X11	CAVITY MORTAR CONTROL MORTAR DIVERTER.
04 20 00.Z01	CONTINUOUS TERMINATION BAR AND SEALANT.

KEYED NOTES WALL SECTION

Key Value	Keynote Text
04 43 00.A1	MASONRY ANCHOR SELECTED AND INSTALLED BY MASONRY MANUFACTURE.
04 43 00.P01	STONE JOINT PIN ANCHOR. EPOXY PIN INTO CAST STONE AND ATTACH TO BUILDING FLOOR SLAB
04 72 00.A04	ST-01 CAST STONE SILL (SP-1) -REFERENCE EXTERIOR ELEVATIONS AND STONE BANDING PROFILES FOR TYPE AND DIMENSIONS. SHEET A006
04 72 00.A05	ST-01 CAST STONE SILL (SP-2) -REFERENCE EXTERIOR ELEVATIONS AND STONE BANDING PROFILES FOR TYPE AND DIMENSIONS. SHEET A006
04 72 00.A07	ST-01 CAST STONE SILL (SP-4) -REFERENCE EXTERIOR ELEVATIONS AND STONE BANDING PROFILES FOR TYPE AND DIMENSIONS. SHEET A006
05 05 23.A01	3/4" Ø ANCHOR BOLT & 1 1/2" WASHERS @ 48" O.C. MAX.(MIN 7" EMBED). MIN (2) BOLTS PER BOARD & WITHIN 12" OF EACH END OR SPLICE.
05 05 23.B02	1" Ø THRU BOLT, 24" O.C. (MAX.). COUNTER SINK BOLT HEAD INTO LEDGER BOARD.
05 12 00.A01.1	STRUCTURAL STEEL COLUMN. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.1A	3/8" THICK ALUMINUM PLATE WITH A WELDED 3/8" THICK, 4" WIDE ALUMINUM BAR SEE STRUC. DWGS.
05 12 00.A01.2	STRUCTURAL STEEL BEAM. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.4	STRUCTURAL STEEL ANGLE. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.6	STRUCTURAL TUBULAR STEEL BEAM. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.12	STRUCTURAL STEEL LINTEL. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.17	STRUCTURAL TUBULAR STEEL COLUMN. -SEE STRUCTURAL DRAWINGS.
05 31 00.A01	9/16" CORRUGATED METAL DECKING. -SEE STRUCTURAL DRAWINGS.
05 31 00.B02	1 1/2" STEEL DECKING. -SEE STRUCTURAL DRAWINGS.
05 40 00 A01.2B	3/4" KNIGHT HCI CLADDING ATTACHMENT.
05 40 00 E01	CONTINUOUS METAL STUD "C" RUNNER TRACK.
05 40 00 E02	CONTINUOUS METAL STUD DEFLECTION HEAD TRACK. -REFERENCE APPLICABLE DETAILS.
05 40 00 F01	METAL STUD SUPPORT CLIP. -SEE STRUCTURAL DRAWINGS.
05 40 00 M08	CONT. 2" X 2" METAL TRIM FRAMING ANGLE.
05 40 00.A01.1A	6" STRUCTURAL COLD-FORMED METAL STUD FRAMING @ 16" O.C. W/ R-19 (MIN.) BATT INSULATION. -SEE STRUCTURAL DRAWINGS.
05 40 00.A01.1G	2 1/2" COLD-FORMED METAL STUD FRAMING @ 16" O.C.
05 40 00.A01.1O	3 5/8" STRUCTURAL COLD-FORMED METAL STUD FRAMING @ 16" O.C. -SEE STRUCTURAL DRAWINGS.
05 40 00.R04	3"X 3"GALVANIZED COLD ROLLED METAL ANGLE GAUGE SIZED BY METAL FRAMING DELEGATED DESIGNER.
05 40 00.R10	1 1/2" X 2" GALVANIZED COLD ROLLED METAL ANGLE GAUGE SIZED BY METAL FRAMING DELEGATED DESIGNER.
05 51 00.A01.1	PREFABRICATED STEEL PAN STAIR W/ CONCRETE FILLED TREADS.
05 52 13.A01.02	1 1/4" NOM. DIA. STEEL PIPE WALL MOUNTED HANDRAIL ATTACHED TO WALL W/ MOUNTING BRACKETS @ 8'-0" O.C. (MAX.). NOTE: RETURN HANDRAIL ENDS TO WALL. -SEE APPLICABLE DETAILS.
06 11 00.F04	5/8" CONT. (FIRE RETARDANT TREATED) PLYWOOD BLOCKING/NAILER.
06 11 00.I01	CONT. 1X2 (NOM.) FIRE RETARDANT TREATED (FRT) WOOD BLOCKING/NAILER.
06 11 00.I12	CONT. 2X8 (NOM.) FIRE RETARDANT TREATED (FRT) WOOD BLOCKING/NAILER.
06 11 00.J04	CONT. FIRE RETARDANT TREATED (FRT) WOOD BLOCKING/NAILER CUT FROM 1X8 (NOM.).
06 11 00.J05	CONT. FIRE RETARDANT TREATED (FRT) WOOD BLOCKING/NAILER CUT FROM 1X10 (NOM.).
06 16 00.B08	3/4" TYPE "CDX" PLYWOOD SHEATHING AND/OR NAILER.
06 16 43.A02	5/8" EXTERIOR FIBERGLASS MAT FACED GYPSUM WALL BOARD SHEATHING.
06 16 43.A03	1/2" EXTERIOR FIBERGLASS MAT FACED IMPACT-RATED GYPSUM ROOF COVER BOARD.
06 16 43.A04	5/8" COVER BOARD.
07 21 00.A01.4	1" THK. (EPS) EXPANDED POLYSTYRENE BOARD INSULATION.
07 21 00.A11	2" THK. (R-10 MIN.) EXTRUDED POLYSTYRENE (XPS) RIGID BOARD INSULATION.
07 21 00.A12	2" THK (R-8.4 MIN.) EXTRUDED POLYSTYRENE (XPS) RIGID BOARD PERIMETER INSULATION.
07 21 00.A13	3/4" THK (R-3.9 MIN.) EXTRUDED POLYSTYRENE (XPS) RIGID BOARD PERIMETER INSULATION.
07 21 00.B01.4	6 1/4" R-19 BATT INSULATION.
07 21 00.F02	2" THK. MINERAL WOOL FIBER BOARD INSULATION.
07 21 00.G02	3.5" W. CLOSED-CELL POLYETHYLENE FOAM SILL SEALER.
07 21 00.G03	5.5" W. CLOSED-CELL POLYETHYLENE FOAM SILL SEALER.
07 25 00.A01	WEATHER BARRIER
07 25 00.I01	SELF-ADHERING RUBBERIZED ASPHALT FLASHING. INSTALL IN ACCORDANCE W/ MANUFACTURER'S INSTALLATION INSTRUCTIONS.
07 25 00.K01	PREFORMED/PREFABRICATED END DAM. SET IN MASTIC IF FLASHING IS NOT SELF-ADHERING. END DAM TO BE PLACED PRIOR TO THROUGH WALL FLASHING
07 26 00.A03	15 MIL. VAPOR RETARDER/BARRIER.
07 42 13.A01	RED METAL COMPOSITE MATERIAL (MCM-01) SHEET. -SEE EXT. BLDG. MTLS. LEGEND.
07 42 13.A02	MICA MNC CLEAR METAL COMPOSITE MATERIAL (MCM-02) SHEET. -SEE EXT. BLDG. MTLS. LEGEND.
07 42 13.A05	MCM ANCHOR, CLIPS AND ACCESSORIES.
07 42 13.A08	MCM HORIZONTAL ANCHOR JOINT CLIP.
07 42 13.A09	MCM VERTICAL ANCHOR JOINT CLIP.
07 42 13.A14	MCM RAINSCREEN PANEL COPING. PROVIDE BACKER ROD & SEALANT IN ALL SKYWARD JOINTS. SEALANT COLOR TO MATCH MCM COLOR UNLESS OTHERWISE INDICATED.
07 42 13.B01	HORIZONTAL RIBBED (MTL-03) METAL WALL PANEL CONCEALED FASTENED. -REFERENCE EXTERIOR BUILDING MATERIALS LEGEND AND APPLICABLE WALL SECTIONS AND DETAILS.
07 48 00.A07	2" THERMABRACKET-D RAINSCREEN ATTACHMENT BRACKET BY KNIGHTWALL OR ARCHITECT APPROVED EQUAL.
07 54 00.A02.0	THERMOPLASTIC POLYOLEFIN (TPO) MEMBRANE ROOFING
07 54 00.A02.1	TPO MEMBRANE
07 54 00.D02.5	METAL TERMINATION BAR.
07 54 00.Y01	ROOF SYSTEM TYPE A: FULLY ADHERED TPO MEMBRANE ROOFING OVER 1/2" THK. COVER BOARD ATTACHED (2) LAYERS OF 2.6"THK. (R-15.0 MIN.) RIGID ROOF INSUL ATTACHED TO 1 1/2" MTL ROOF DECK. (NOTE INSTALL ALL ROOF INSULATION AND TAPERED CRICKET INSULATION PRIOR TO INSTALLATION OF TOP COVERBOARD).
07 54 00.Y07	ROOF SYSTEM TYPE B: FULLY ADHERED TPO MEMBRANE ROOFING OVER 1/2" THK. COVER BOARD ATTACHED TO 3/4" MIN. TAPERED RIGID ROOF INSULATION OVER (2) LAYERS OF 2.6"THK. (R-15.0 MIN.) RIGID ROOF INSUL ATTACHED TO 9/16" MTL ROOF DECK.
07 62 00.A02.1	PRE-FINISHED METAL FLASHING AND/OR TRIM FINISH TO MATCH ADJACENT METAL PANEL.
07 62 00.A02.3	PRE-FINISHED AJ3 "J" CHANNEL AND/OR TRIM FINISH TO MATCH ADJACENT METAL PANEL.
07 62 00.A11.0	CLEAR ANODIZED ALUMINUM SILL FLASHING TO MATCH ALUM. STOREFRONT.
07 71 23.B01	PREFABRICATED CREATIVE DESIGN REVEAL METAL COPING (MTL-01) W/ CONT. CLEAT BY METAL-ERA.
07 90 05.A04.02	3/8" W. BACKER ROD AND SEALANT.
07 90 05.A04.03	1/2" W. BACKER ROD & SEALANT.
07 90 05.A04.07	1" W. BACKER ROD & SEALANT.
07 90 05.B02	CONT. 1/4" W. SEALANT JOINT. COLOR TO MATCH ADJACENT MATERIAL UNLESS OTHERWISE INDICATED.
07 90 05.B03	CONT. 3/8" W. SEALANT JOINT. COLOR TO MATCH ADJACENT MATERIAL UNLESS OTHERWISE INDICATED.
08 33 23.A01	OVERHEAD COILING DOOR. -REFERENCED DOOR SCHEDULE FOR TYPE AND SIZE.
08 36 13.B01	OVERHEAD SECTIONAL DOOR. -SEE DOOR SCHEDULE.
08 43 13.A01	2" X 4 1/2" THERMALLY BROKEN ALUMINUM STOREFRONT SYSTEM W/ CENTER SET 1" INSULATING GLAZING. -REFERENCE EXTERIOR ELEVATIONS OR FRAME TYPE ELEVATIONS FOR GLAZING TYPES.
08 43 13.A02	1/2" TEMP. GLASS WITH ACID ETCHED ON ONE SIDE.
08 43 13.A05	2" X 4 1/2" THERMALLY BROKEN ALUMINUM STOREFRONT HEAD EXTRUSION W/ HEAD RECEPTOR. -REFERENCE HEAD AND JAMB DETAILS, EXTERIOR ELEVATIONS OR FRAME TYPE ELEVATIONS FOR GLAZING TYPES.
08 43 13.C01	ALUMINUM STOREFRONT ENTRY DOOR. -SEE DOOR & GLAZING SCHEDULES.
08 44 13.A01	2 1/2" X 10 1/8" ALUMINUM CURTAIN WALL SYSTEM W/ 1" INSULATED GLAZING. -REFERENCE EXTERIOR ELEVATIONS AND/OR FRAME TYPE ELEVATIONS FOR GLAZING TYPES.
08 71 00.B01	DOOR BOTTOM SWEEP. PEMKO 29326V OR ARCHITECT APPROVED EQUAL. -SEE DOOR HARDWARE SCHEDULE FOR FINISH.
08 80 00.01E	GLAZING TYPE "GS", 1" INSULATED GLAZING. -REFERENCE FRAME TYPE ELEVATIONS AND GLASS LITE SCHEDULE FOR GLAZING TYPE.
09 21 16.A01.10	3 5/8" METAL STUDS/FRAMING @ 16" O.C. (MAX.).
09 21 16.A01.14	6" METAL STUDS/FRAMING @ 16" O.C. (MAX.).
09 21 16.C01.04	5/8" THK. PAPER FACED GYPSUM WALL BOARD.
09 21 16.C08.04	WOOD SHIPLAP PANELING & WOOD TRIM. SEE FINISH SCHEDULE.
09 21 16.D01	SUSPENDED GYPSUM BOARD CEILING SYSTEM: 5/8" GYPSUM BOARD ATTACHED TO DRYWALL GRID SYSTEM.
09 21 16.E01	CONT. NO. 200B "L"-TRIM TYP.
09 21 16.E04	CONT. CORNER BEAD TYP.
09 22 26.D01	12 GA. HANGER WIRE TYP.
09 51 00.A01	LAY-IN ACOUSTICAL PANEL CEILING AND METAL TEE GRID SUSPENSION SYSTEM -SEE INTERIOR FINISH SCHEDULE.
09 65 00.A01.01	RESILIENT BASE AS SCHEDULED. -REFER TO FLOOR FINISH PLAN AND FINISH SCHEDULE.
10 14 00.A01	WALL MOUNTED DIMENSIONAL LETTER SIGNAGE BY OTHERS. G.C. TO COORDINATE SIGNAGE LOCATION W/ SIGNAGE VENDOR./SUPPLIER AND PROVIDE BLOCKING IN WALL AS REQ'D. FOR ATTACHMENT OF SIGN. -REFERENCE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.
10 22 23.A01	OPERABLE PARTITION. -REFERENCE APPLICABLE FLOOR PLANS, SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION.
10 71 13 A.01	GEOLAM PLANEO 6040 COMPOSITE SUNSHADE(40MM X 60MM) WOOD POLYMER COMPOSITE (TEAK).
10 71 13 A.02	GEOLAM PLANEO 4061 COMPOSITE SUNSHADE (300MM X 100MM) WOOD-POLYMER COMPOSITE (TEAK)
10 71 13 A.03	GEOLAM PLANEO 6033 COMPOSITE SUNSHADE (300MM X 100MM) WOOD-POLYMER COMPOSITE (TEAK)
12 36 61.B01	1/2" THK. SOLID SURFACE WINDOW SILL. -REFERENCE INTERIOR FINISH SCHEDULE.
13 34 19 A01.05	6"V LONGBOARD TONGUE & GROOVE EXTERIOR SOFFIT LIGHT BAMBOO.
26 56 33.A01	LIGHT BOLLARD. -SEE ELECTRICAL DRAWINGS.
33 46 13.A02	4" PERFORATED DRAIN PIPE SURROUNDED BY 1" CLEAN CRUSHED ROCK PLACED A MINIMUM OF 6 INCHES IN ALL DIRECTIONS AROUND PIPE, ENCASED IN A MIRAFI 140N SYNTHETIC FILTER FABRIC OR ARCHITECT APPROVED EQUAL. REFERENCE CIVIL AND/OR PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

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ST. PETERS, MO 63376
380/340 ECOLOGY DRIVE

No.	Date	Revision

WALL SECTIONS

Project No. 23121

Sheet No. A139

Date 09/16/2025

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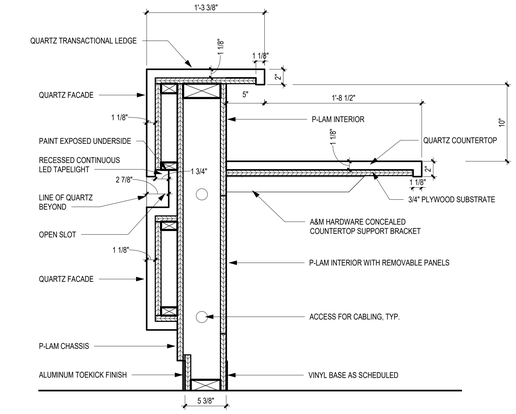
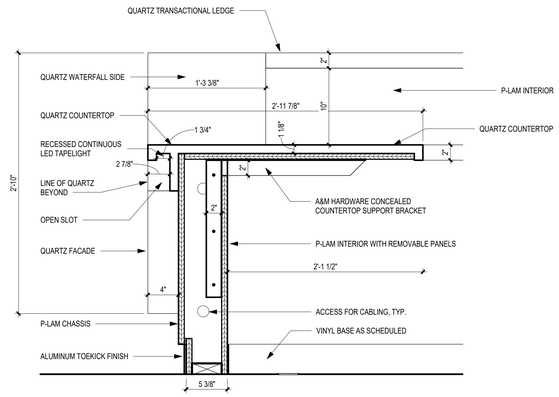


D1 REC. COUNTER SECTION
1 1/2" = 1'-0"



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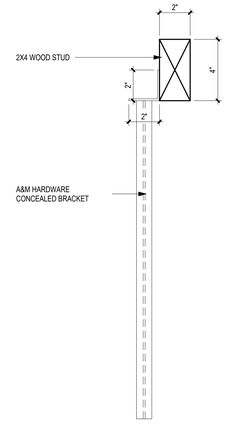
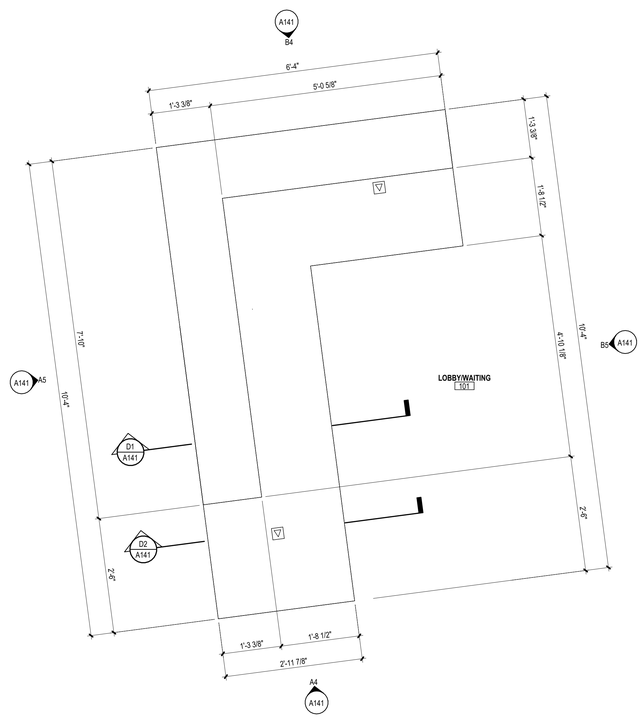
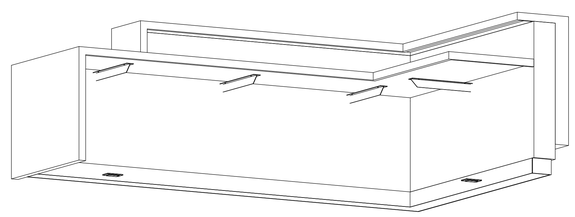


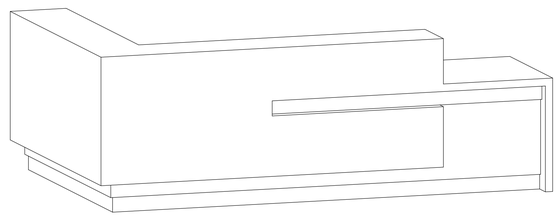
D6 CONCEALED BRACKET PLAN DETAIL
3" = 1'-0"



A1 ENLARGED PLAN RECEPTION DESK
3/4" = 1'-0"



C3 3D RECEPTION DESK VIEW FROM BELOW



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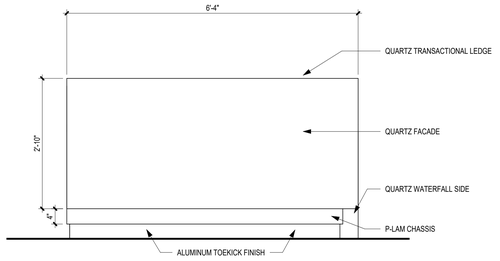
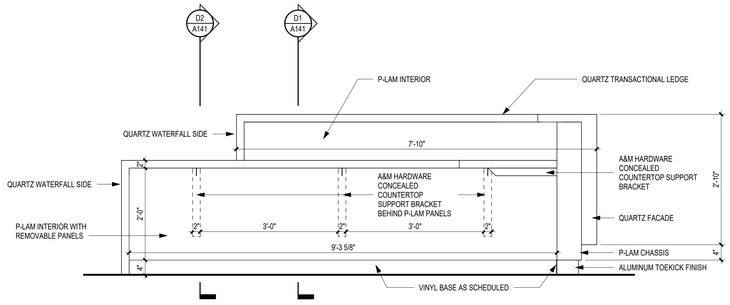


B4 REC. COUNTER NORTH
3/4" = 1'-0"



B5 REC. COUNTER EAST
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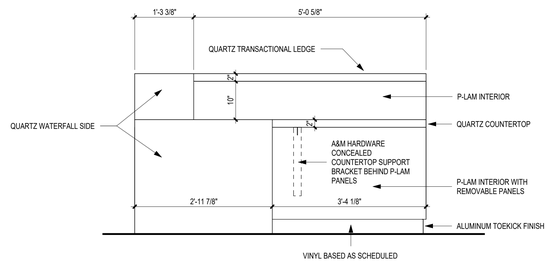

A4 REC. COUNTER SOUTH
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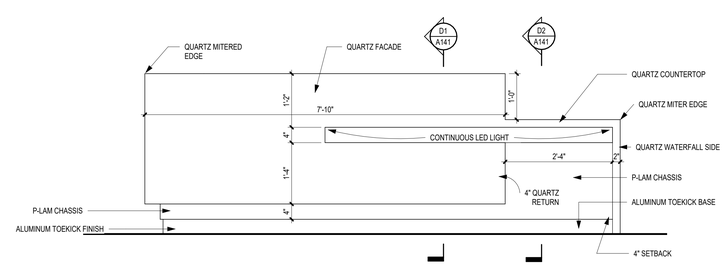

A5 REC. COUNTER WEST
3/4" = 1'-0"

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CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE
360/340 ECOLOGY DRIVE
ST. PETERS, MO 63376

No.	Date	Revision

ENLARGED PLANS & ELEV. RECP.

Project No.
23121

Sheet No.
A141

Date
09/16/2025

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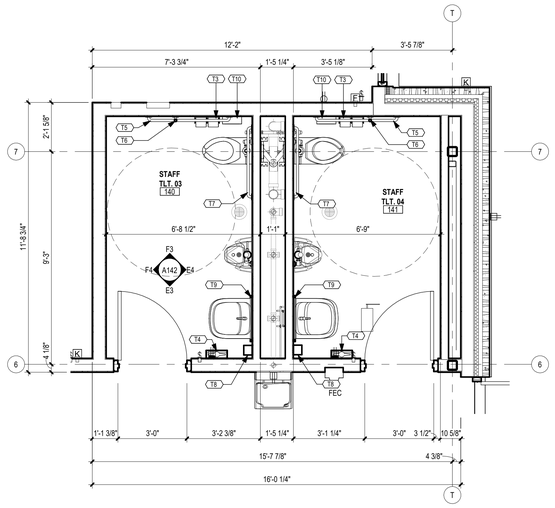
TOILET ACCESSORY SCHEDULE

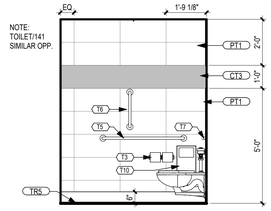
TYPE MARK	DESCRIPTION	MANUFACTURER	CATALOG NUMBER
T1	TOILET PARTITION	BOBRICK	-
T2	URINAL SCREEN (WALL HUNG)	BOBRICK	-
T3	TOILET TISSUE DISPENSER	HILLYARD	PAP42719
T4	RECESSED MOTION PAPER TOWEL DISPENSER	GEORGIA PACIFIC	594766A
T5	42" HORIZONTAL GRAB BAR	BOBRICK	B-6806x42
T6	18" VERTICAL GRAB BAR	BOBRICK	B-6806x18
T7	36" HORIZONTAL GRAB BAR	BOBRICK	B-6806x36
T8	SOAP DISPENSER	BOBRICK	B-2111
T9	24" x 36" MIRROR	BOBRICK	B-165 2436
T10	SANITARY NAPKIN DISPOSAL	BOBRICK	B-270
T11	MOP & BROOM HOLDER	BOBRICK	B-223X36

KEYED NOTES INT. ELEV. RESTROOM

MARK	DESCRIPTION
4	WALL BASE AS SCHEDULED, SEE FINISH SCHEDULE.
8	BUILT IN VANITY TOP WITH 25" D SOLID SURFACE COUNTER WITH INTEGRAL SINK, ANGLED PLAS. LAMINATE ADA VANITY CABINET, SEE FINISH SCHEDULE
13	HIGH-LOW DRINKING FOUNTAINS WITH BOTTLE FILLERS, SEE PLUMBING AND ELECTRICAL DWGS.
38	FLOOR MOUNTED OVERHEAD BRACED TOILET PARTITIONS & URINAL SCREENS



E1 ENLARGED PLAN STAFF TLT. 03/04
3/8" = 1'-0"



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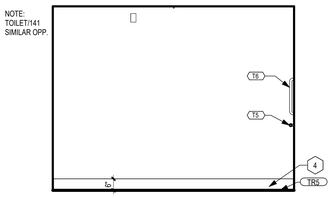

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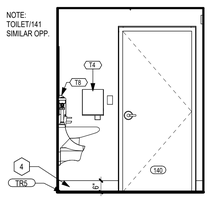

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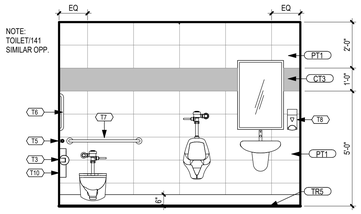

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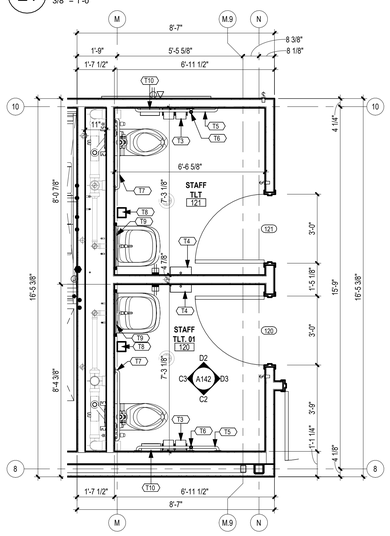

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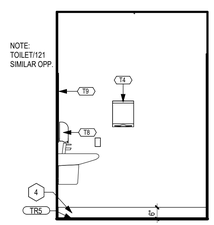

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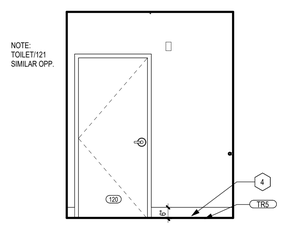

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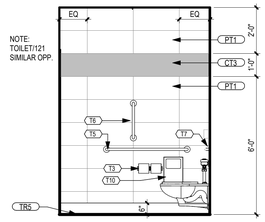

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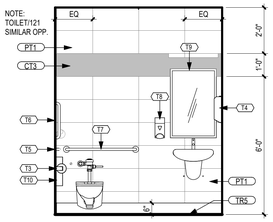

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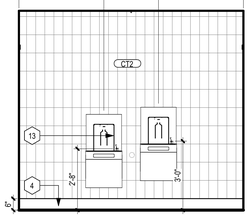
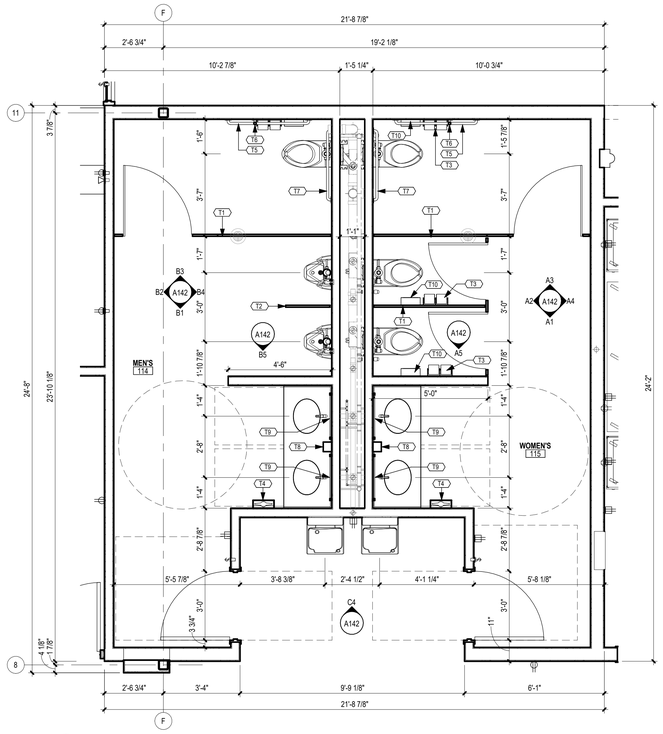
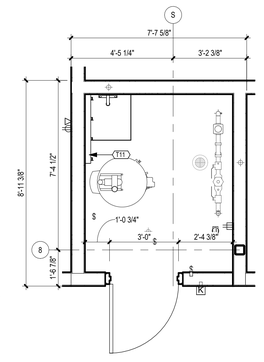


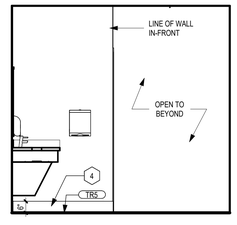
C4 D. F. SOUTH 113
3/8" = 1'-0"



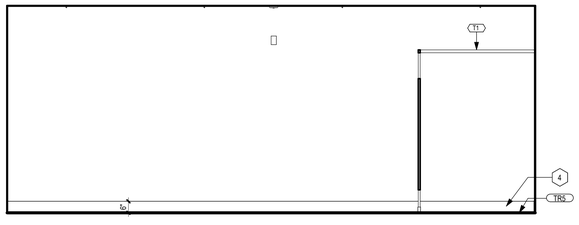
C5 ENLARGED PLAN MEN'S/WOMEN'S 114/115
3/8" = 1'-0"



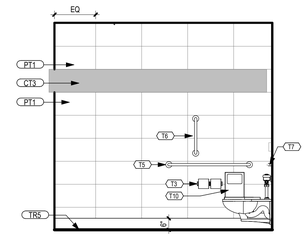
C7 ENLARGED PLAN JANITOR 143
3/8" = 1'-0"



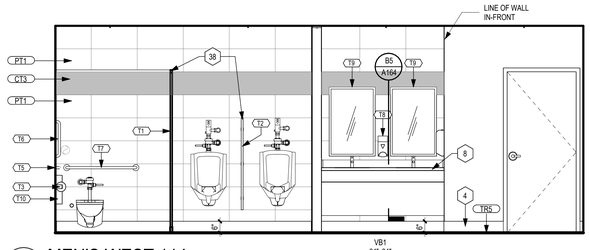
B1 MEN'S NORTH 114
3/8" = 1'-0"



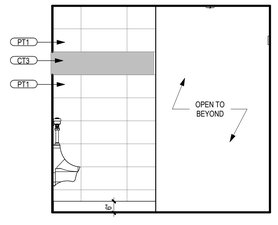
B2 MEN'S EAST 114
3/8" = 1'-0"



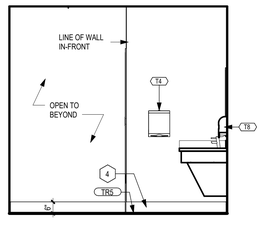
B3 MEN'S SOUTH 114
3/8" = 1'-0"



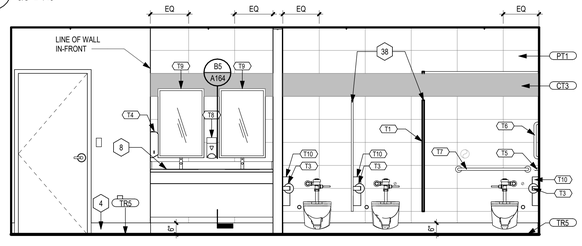
B4 MEN'S WEST 114
3/8" = 1'-0"



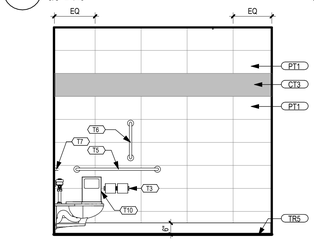
B5 MEN'S NORTH 114 (2)
3/8" = 1'-0"



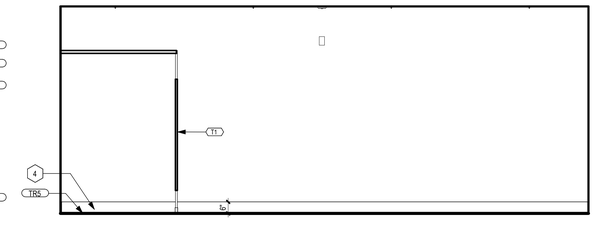
A1 WOMEN'S NORTH 115
3/8" = 1'-0"



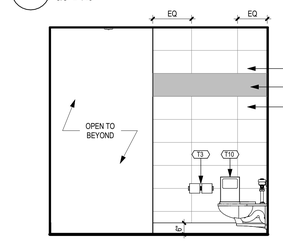
A2 WOMEN'S EAST 115
3/8" = 1'-0"



A3 WOMEN'S SOUTH 115
3/8" = 1'-0"



A4 WOMEN'S WEST 115
3/8" = 1'-0"



A5 WOMEN'S NORTH 115 (2)
3/8" = 1'-0"

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ST. PETERS, MO 63376
380/340 ECOLOGY DRIVE

No.	Revision	Date

ENLARGED PLANS & ELEV. TLT. RMS.

Project No. 23121

Sheet No. A142

Date 09/16/2025

9/13/2025 7:29:11 PM
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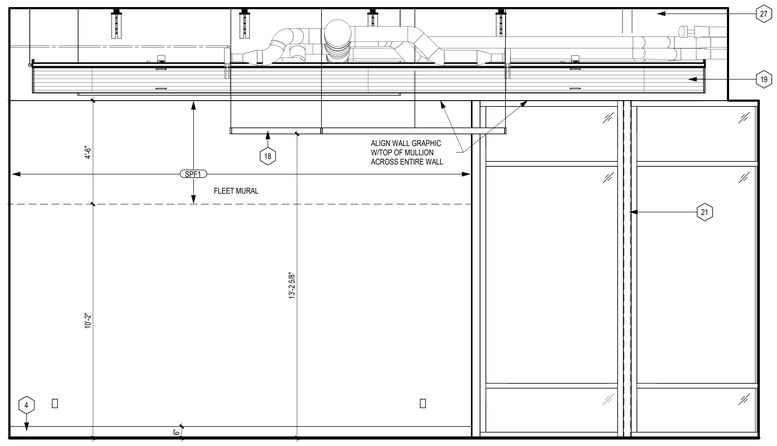
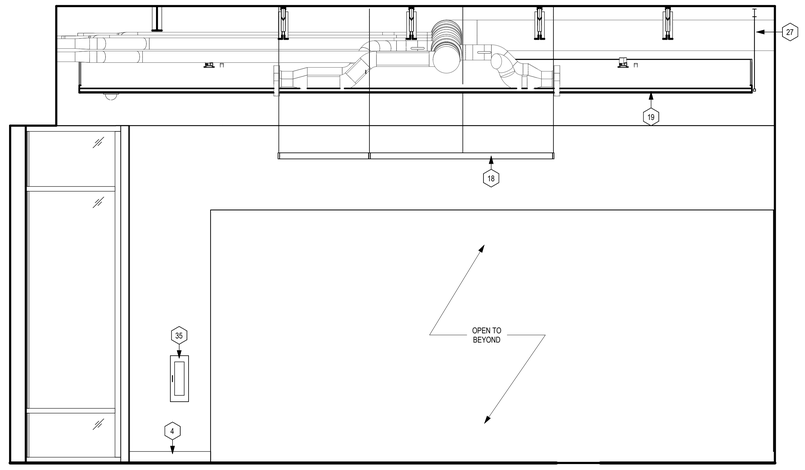
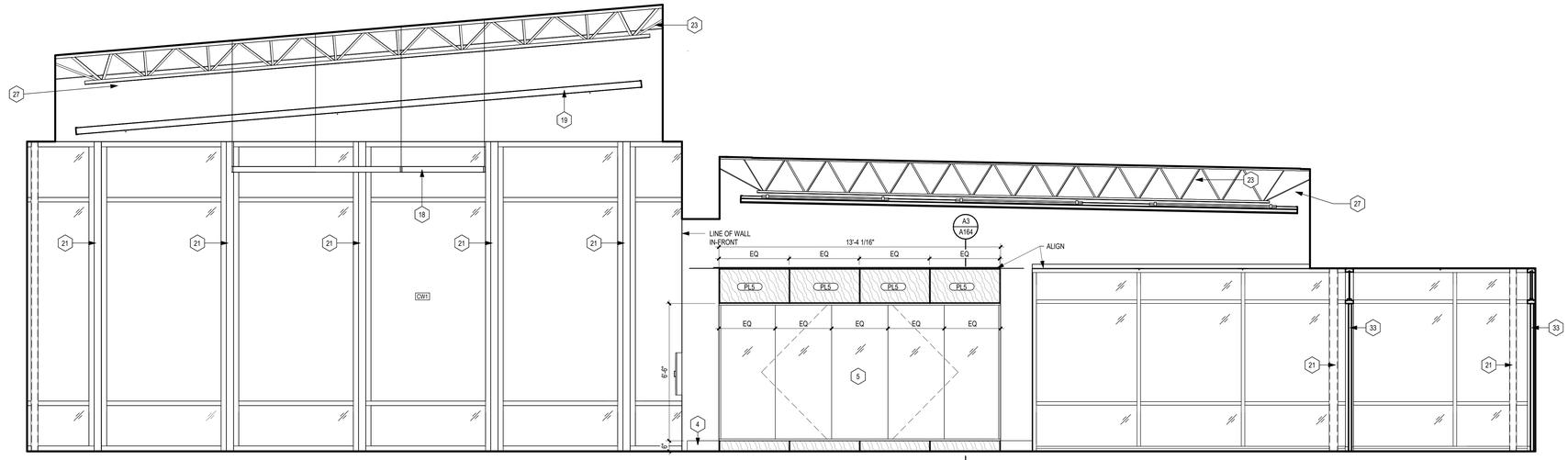


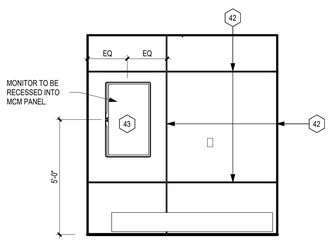
D1 LOBBY/DISPLAY NORTH 103
3/8" = 1'-0"



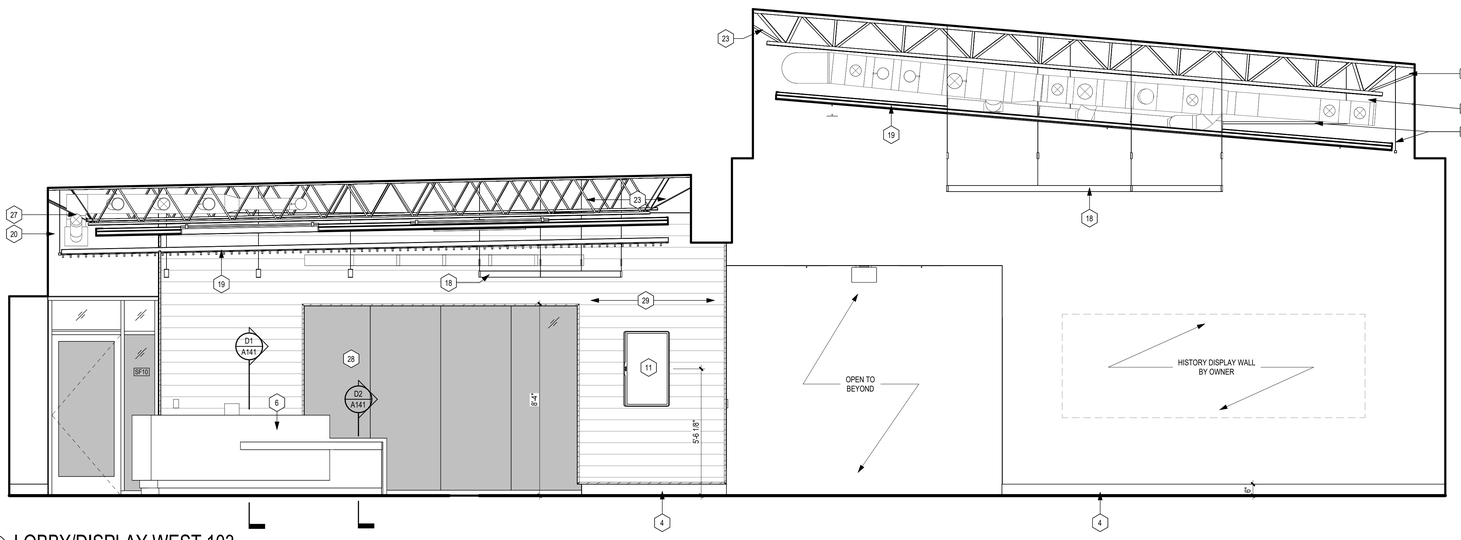
D3 LOBBY/DISPLAY SOUTH 103
3/8" = 1'-0"



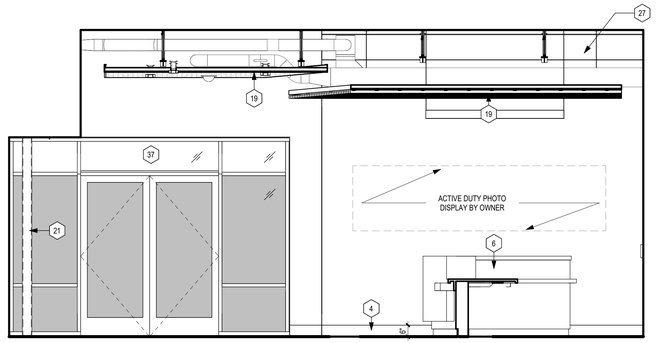
B1 LOBBY/DISPLAY EAST 103
3/8" = 1'-0"



B6 VESTIBULE 100 WEST
3/8" = 1'-0"



A1 LOBBY/DISPLAY WEST 103
3/8" = 1'-0"



A5 LOBBY/WAITING SOUTH 101
3/8" = 1'-0"

KEYED NOTES INT. ELEV.

MARK	DESCRIPTION
1	25"D PLASTIC LAMINATE COUNTER, 4"H BACKSPLASH & SIDESPLASHS (LEFT OR RIGHT SIDE, AS REQUIRED) W/ UNDER COUNTER METAL SUPPORT BRACKETS AS INDICATED. -SEE FINISH SCHEDULE.
2	24"D PLASTIC LAMINATE WALL CABINETS & 24"D BASE CABINETS, SEE FINISH SCHEDULE.
3	LAMINATE CABINET FILLER PANELS AS REQUIRED, MATCH FINISH.
4	WALL BASE AS SCHEDULED, SEE FINISH SCHEDULE.
5	DISPLAY CASE -SEE CABINETRY DETAILS
6	CUSTOM MILLWORK RECEPTION DESK -SEE SHEET A141 FOR DETAILS
7	14"D* PLASTIC LAMINATE CABINET WITH ADJUSTABLE 1/4" PLEXIGLASS DIVIDERS/MAILSLOTS -SEE FINISH SCHEDULE.
8	BUILT IN VANITY TOP WITH 25" D SOLID SURFACE COUNTER WITH INTEGRAL SINK, ANGLED PLAS. LAMINATE ADA VANITY CABINET, SEE FINISH SCHEDULE
9	CUSTOM BOARD ROOM WOOD DOORS W/METAL ACCENT & 36"LONG BAR PULLS, SEE FINISH SCHEDULE
10	65" MONITOR PROVIDE BLOCKING, SEE ELECTRICAL DWGS.
11	43" MONITOR, PROVIDE BLOCKING, SEE ELECTRICAL DWGS.
12	85" MONITOR PROVIDE BLOCKING, SEE ELECTRICAL DWGS.
13	HIGH-LOW DRINKING FOUNTAINS WITH BOTTLE FILLERS, SEE PLUMBING AND ELECTRICAL DWGS.
14	DRINKING FOUNTAIN WITH BOTTLE FILLER. SEE PLUMBING AND ELECTRICAL DWGS.
15	COILING COUNTER DOOR, SEE DOOR SCHEDULE FOR DETAILS.
16	OPERABLE PARTITION, SEE DETAILS & SPECS.
17	OVERHEAD DOOR, SEE APPLICABLE DETAILS.
18	SUSPENDED LIGHTING FIXTURE, SEE ELECTRICAL DWGS.
19	SUSPENDED CEILING CLOUD, REFER TO REFLECTED CEILING PLAN AND MATERIAL FINISH LEGEND FOR ADDITIONAL DETAILS.
20	SUSPENDED WALL WASH LIGHT, SEE RCP AND ELECTRICAL FOR DETAILS.
21	EXPOSED COLUMN -SEE STRUCTURAL. PAINTED FINISH.
22	EXPOSED BEAM -SEE STRUCTURAL
23	EXPOSED JOIST, PAINTED - SEE STRUCTURAL DRAWINGS AND INTERIOR FINISH SCHEDULE
24	DIGITALLY PRINTED ACOUSTIC WALL PANELS, SEE FINISH SCHEDULE
25	GALLERY PILASTERS AND SOFFIT PAINT HIGHLIGHT COLOR P6
26	WALL MOUNTED MARKER BOARD, TYP.
27	PAINT WALLS BLACK P10 AND ALL CEILING ITEMS P4, FROM BOTTOM OF JOIST TO DECK, SEE FINISH SCHEDULE
28	ACID ETCHED GLASS PANELS, BUTT JOINED SEE DETAILS &FINISH LEGEND FOR ADDITIONAL INFO
29	WOOD SHIPLAP PANELING & WOOD TRIM W/ MITERED CORNERS, SEE FINISH SCHEDULE.
30	TYPICAL PIPE RAILING, SEE SHEET A165 FOR DETAILS.
31	STAIR TO MEZZANINE, SEE SHEET A165 FOR DETAILS.
32	PARALLEL MOUNTED ALUM SELF-CLOSING SAFETY GATE.
33	STOREFRONT SYSTEM -SEE STOREFRONT ELEVATIONS FOR DETAILS.
34	CLERESTORY STOREFRONT, SEE STOREFRONT ELEVATIONS & DETAILS.
35	FIRE EXTINGUISHER CABINET
36	FRP SEAM LOCATIONS
37	ADDRESS NUMBERS VINYL APPLIQUE SPF5
38	FLOOR MOUNTED OVERHEAD BRACED TOILET PARTITIONS & URINAL SCREENS
39	ALUM. SHIP LADDER. BASIS OF DESIGN O'KEEFFES MODEL 520A, SEE DETAILS.
40	PAINT WHITE. USE NOTE FROM RCP (14)
41	BOTTLE FILLER. SEE PLUMBING AND ELECTRICAL DWGS.
42	MCM REVEAL
43	43" VERTICAL MONITOR RECESSED INTO MCM PANEL.

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No.	Revision	Date

INTERIOR ELEVATIONS LOBBY

Project No.
23121

Sheet No.
A143

Date
09/16/2025

9/15/2025 9:44:26 AM
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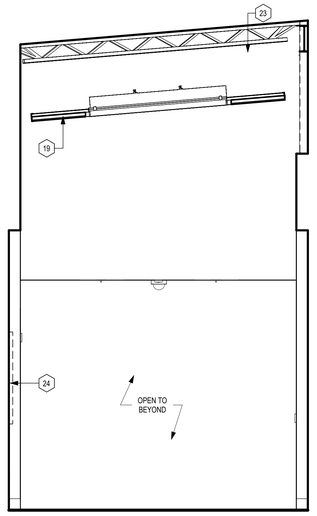
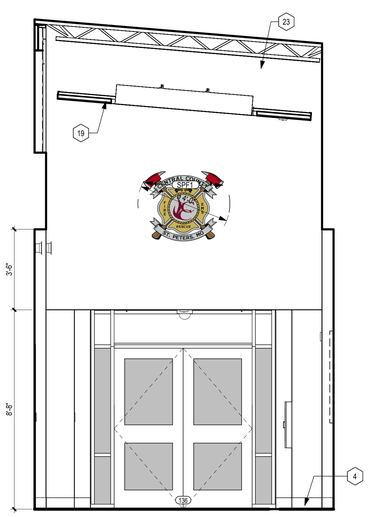
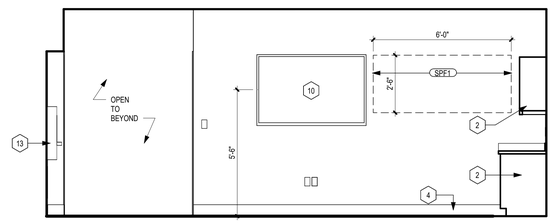


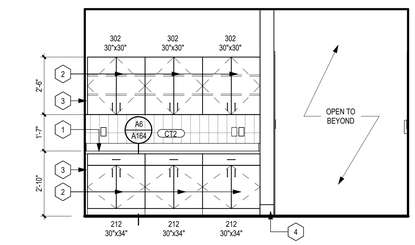
D1 CORRIDOR/GALLERY EAST 104
3/8" = 1'-0"



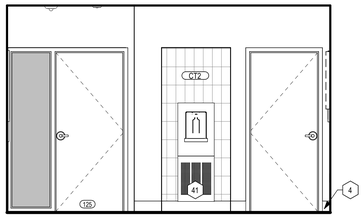
D2 CORRIDOR/GALLERY WEST 104
3/8" = 1'-0"



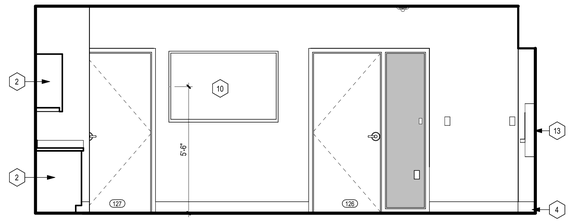
E3 STAFF LOUNGE NORTH 123
3/8" = 1'-0"



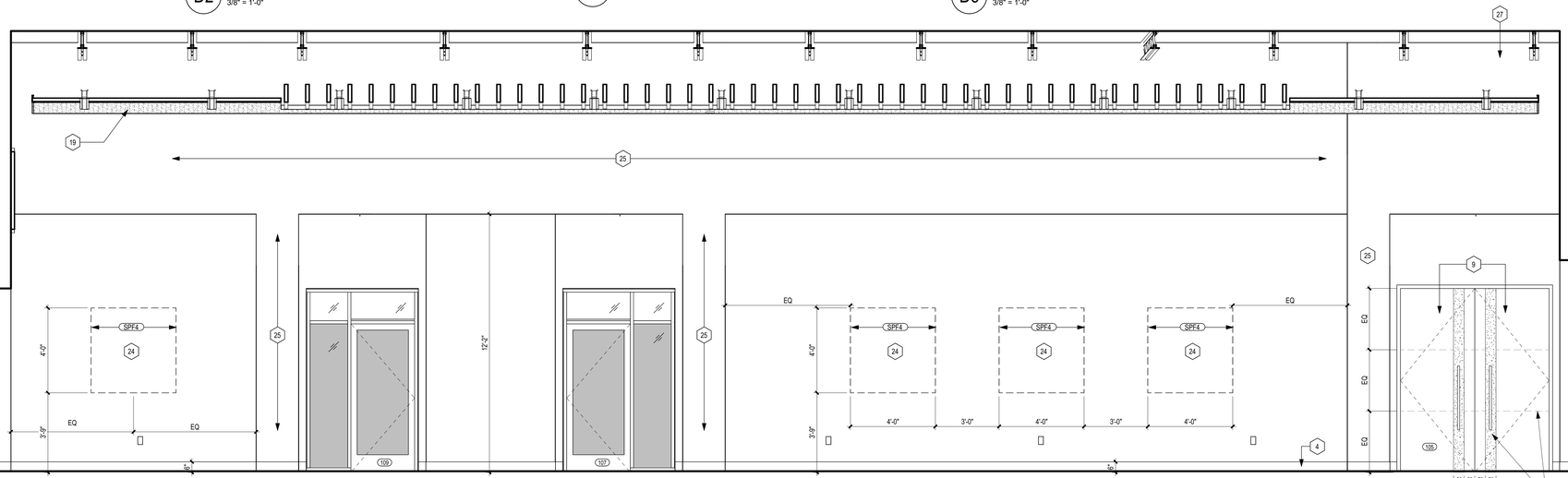
E5 STAFF LOUNGE EAST 123
3/8" = 1'-0"



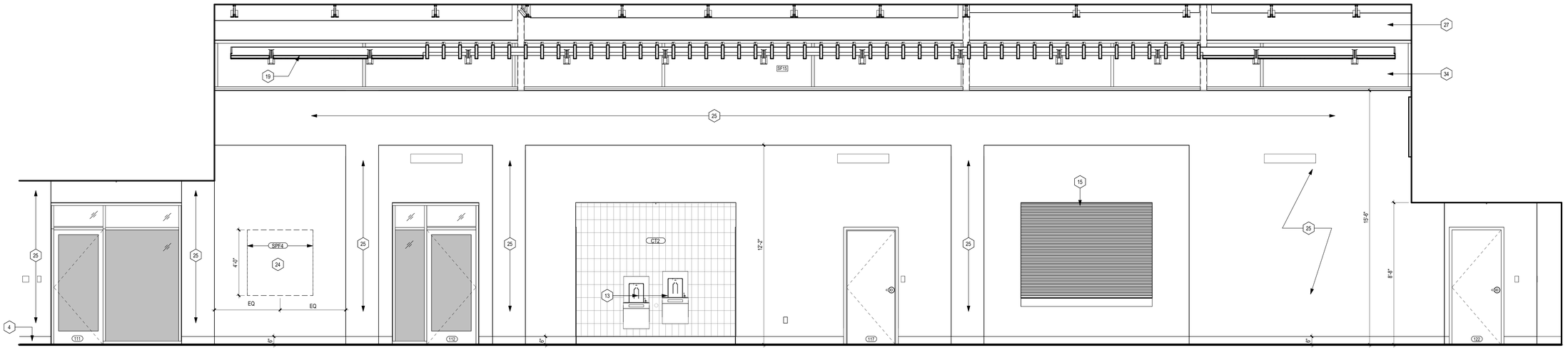
D3 STAFF LOUNGE WEST 123
3/8" = 1'-0"



D5 STAFF LOUNGE SOUTH 123
3/8" = 1'-0"



B1 CORRIDOR/GALLERY NORTH 104
3/8" = 1'-0"



A1 CORRIDOR/GALLERY SOUTH 104
3/8" = 1'-0"

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No.	Date	Revision

INTERIOR ELEVATIONS GALLERY

Project No.
23121

Sheet No.
A144

Date
09/16/2025

9/13/2025 7:29:21 PM
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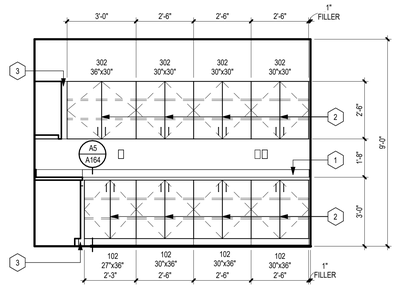
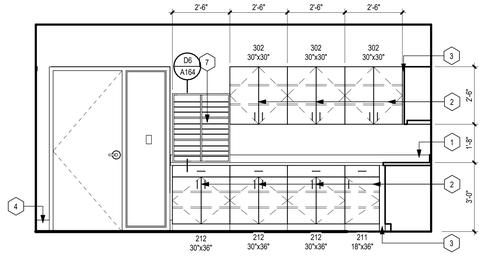
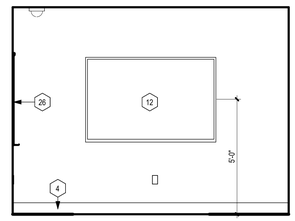


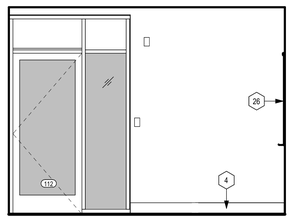
D1 WORK/COPY SOUTH 133
3/8" = 1'-0"



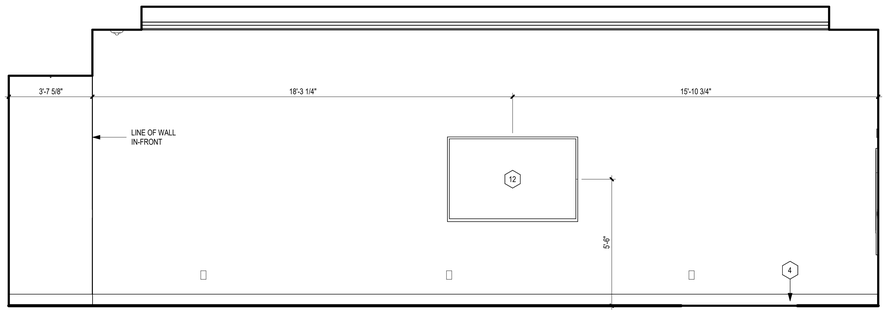
D2 WORK/COPY WEST 133
3/8" = 1'-0"



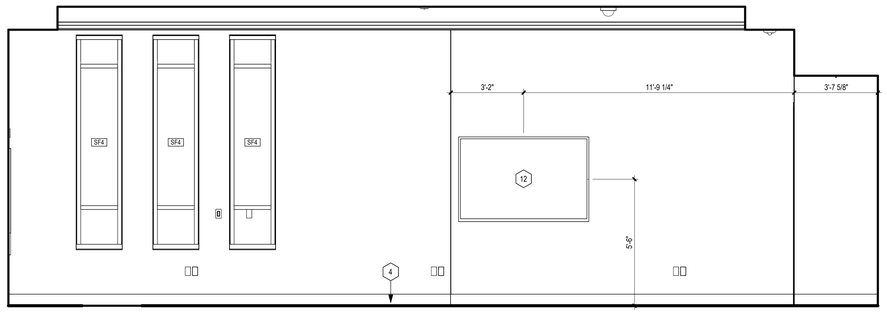
D4 BREAK OUT SOUTH 112
3/8" = 1'-0"



D5 BREAK OUT NORTH 112
3/8" = 1'-0"



C1 TRAINING EAST
3/8" = 1'-0"



C4 TRAINING WEST
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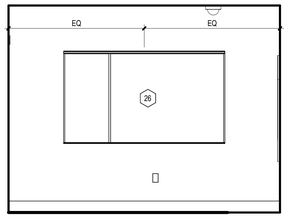
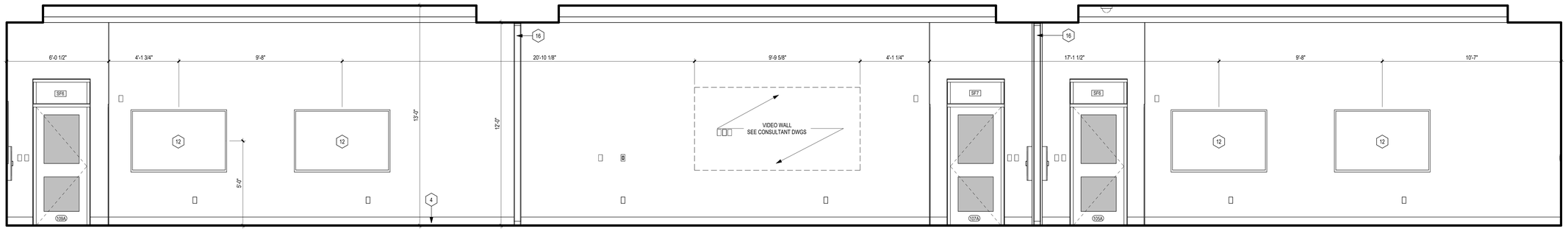
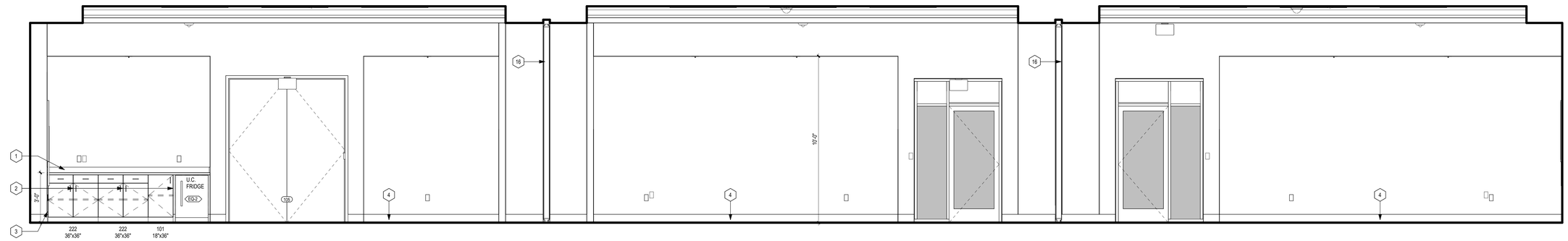


C6 BREAK ROOM EAST 112
3/8" = 1'-0"



B1 TRAINING NORTH
3/8" = 1'-0"



A1 TRAINING SOUTH
3/8" = 1'-0"

KEYED NOTES INT. ELEV.

MARK	DESCRIPTION
1	25"D PLASTIC LAMINATE COUNTER, 4"H BACKSPLASH & SIDESPLASHS (LEFT OR RIGHT SIDE, AS REQUIRED) W/ UNDER COUNTER METAL SUPPORT BRACKETS AS INDICATED. -SEE FINISH SCHEDULE.
2	24"D PLASTIC LAMINATE WALL CABINETS & 24"D BASE CABINETS, SEE FINISH SCHEDULE.
3	LAMINATE CABINET FILLER PANELS AS REQUIRED, MATCH FINISH.
4	WALL BASE AS SCHEDULED, SEE FINISH SCHEDULE.
5	DISPLAY CASE -SEE CABINETRY DETAILS
6	CUSTOM MILLWORK RECEPTION DESK -SEE SHEET A141 FOR DETAILS
7	14"D* PLASTIC LAMINATE CABINET WITH ADJUSTABLE 1/4" PLEXIGLASS DIVIDERS/MAILSLOTS -SEE FINISH SCHEDULE.
8	BUILT IN VANITY TOP WITH 25" D SOLID SURFACE COUNTER WITH INTEGRAL SINK, ANGLED PLAS. LAMINATE ADA VANITY CABINET, SEE FINISH SCHEDULE
9	CUSTOM BOARD ROOM WOOD DOORS W/METAL ACCENT & 36"LONG BAR PULLS, SEE FINISH SCHEDULE
10	65" MONITOR PROVIDE BLOCKING, SEE ELECTRICAL DWGS.
11	43" MONITOR, PROVIDE BLOCKING, SEE ELECTRICAL DWGS.
12	85" MONITOR PROVIDE BLOCKING, SEE ELECTRICAL DWGS.
13	HIGH-LOW DRINKING FOUNTAINS WITH BOTTLE FILLERS, SEE PLUMBING AND ELECTRICAL DWGS.
14	DRINKING FOUNTAIN WITH BOTTLE FILLER. SEE PLUMBING AND ELECTRICAL DWGS.
15	COILING COUNTER DOOR, SEE DOOR SCHEDULE FOR DETAILS.
16	OPERABLE PARTITION, SEE DETAILS & SPECS.
17	OVERHEAD DOOR, SEE APPLICABLE DETAILS
18	SUSPENDED LIGHTING FIXTURE, SEE ELECTRICAL DWGS.
19	SUSPENDED CEILING CLOUD, REFER TO REFLECTED CEILING PLAN AND MATERIAL FINISH LEGEND FOR ADDITIONAL DETAILS.
20	SUSPENDED WALL WASH LIGHT, SEE RCP AND ELECTRICAL FOR DETAILS.
21	EXPOSED COLUMN -SEE STRUCTURAL: PAINTED FINISH.
22	EXPOSED BEAM -SEE STRUCTURAL
23	EXPOSED JOIST, PAINTED - SEE STRUCTURAL DRAWINGS AND INTERIOR FINISH SCHEDULE
24	DIGITALLY PRINTED ACOUSTIC WALL PANELS, SEE FINISH SCHEDULE
25	GALLERY PILASTERS AND SOFFIT PAINT HIGHLIGHT COLOR P6
26	WALL MOUNTED MARKER BOARD, TYP.
27	PAINT WALLS BLACK P10 AND ALL CEILING ITEMS P4, FROM BOTTOM OF JOIST TO DECK, SEE FINISH SCHEDULE
28	ACID ETCHED GLASS PANELS, BUTT JOINED SEE DETAILS &FINISH LEGEND FOR ADDITIONAL INFO
29	WOOD SHIPLAP PANELING & WOOD TRIM W/ MITERED CORNERS, SEE FINISH SCHEDULE.
30	TYPICAL PIPE RAILING, SEE SHEET A165 FOR DETAILS.
31	STAIR TO MEZZANINE, SEE SHEET A165 FOR DETAILS.
32	PARALLEL MOUNTED ALUM SELF-CLOSING SAFETY GATE.
33	STOREFRONT SYSTEM -SEE STOREFRONT ELEVATIONS FOR DETAILS.
34	CLERESTORY STOREFRONT, SEE STOREFRONT ELEVATIONS & DETAILS.
35	FIRE EXTINGUISHER CABINET
36	FRP SEAM LOCATIONS
37	ADDRESS NUMBERS VINYL APPLIQUE SPF5
38	FLOOR MOUNTED OVERHEAD BRACED TOILET PARTITIONS & URINAL SCREENS
39	ALUM. SHIP LADDER. BASIS OF DESIGN O'KEEFFES MODEL 520A, SEE DETAILS.
40	PAINT WHITE, USE NOTE FROM RCP (14)
41	BOTTLE FILLER. SEE PLUMBING AND ELECTRICAL DWGS.
42	MCM REVEAL
43	43" VERTICAL MONITOR RECESSED INTO MCM PANEL.

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Proposed:
CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE
360/340 ECOLOGY DRIVE ST. PETERS, MO 63376

No.	Date	Revision

INTERIOR ELEVATIONS

Project No. 23121
Sheet No. A145
Date 09/16/2025

9/13/2025 7:29:24 PM
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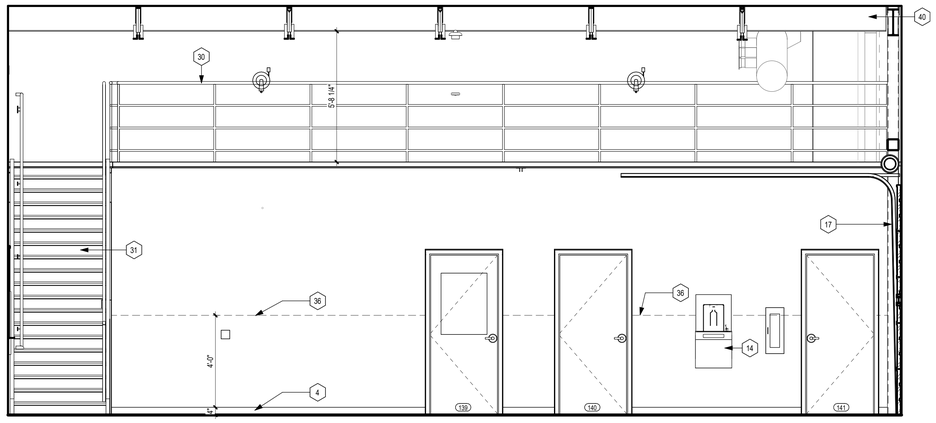
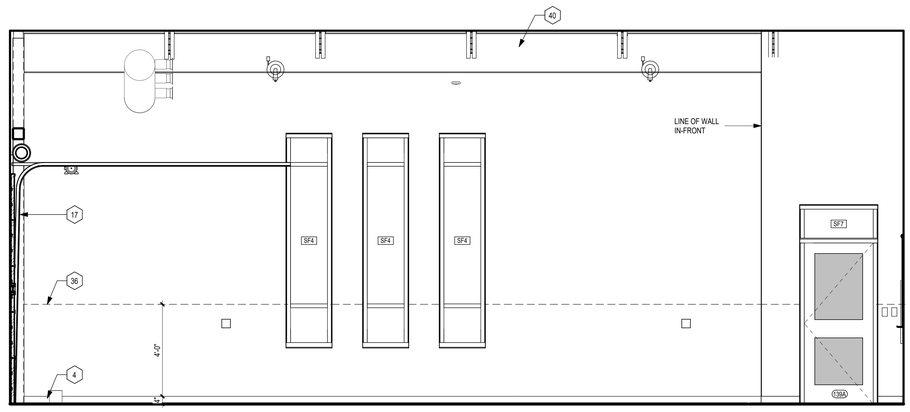
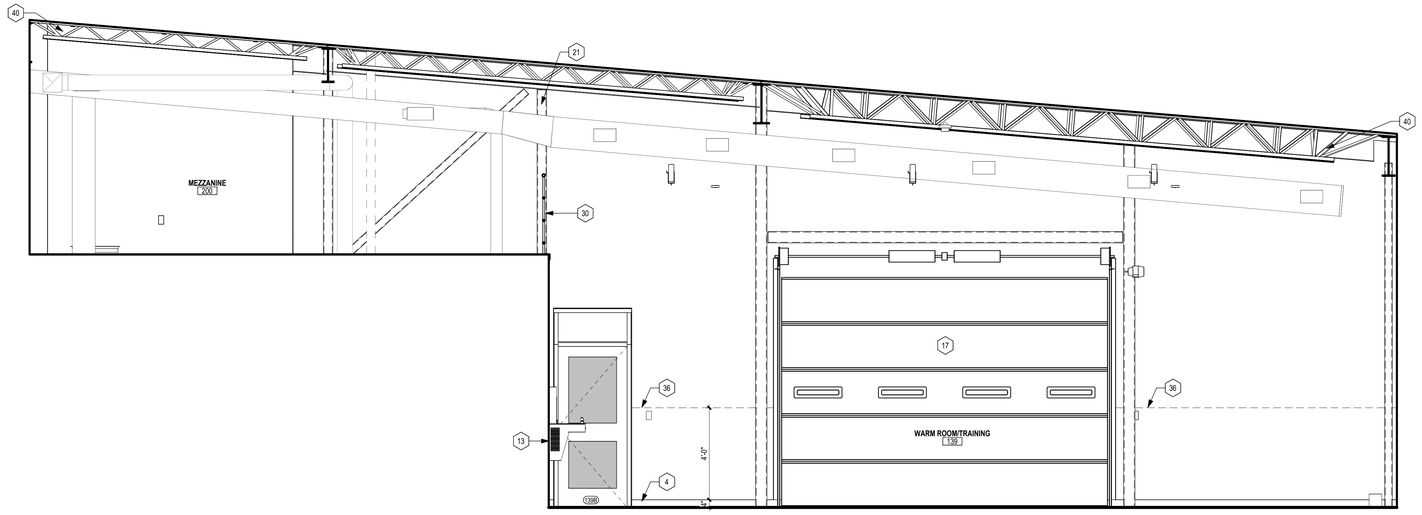


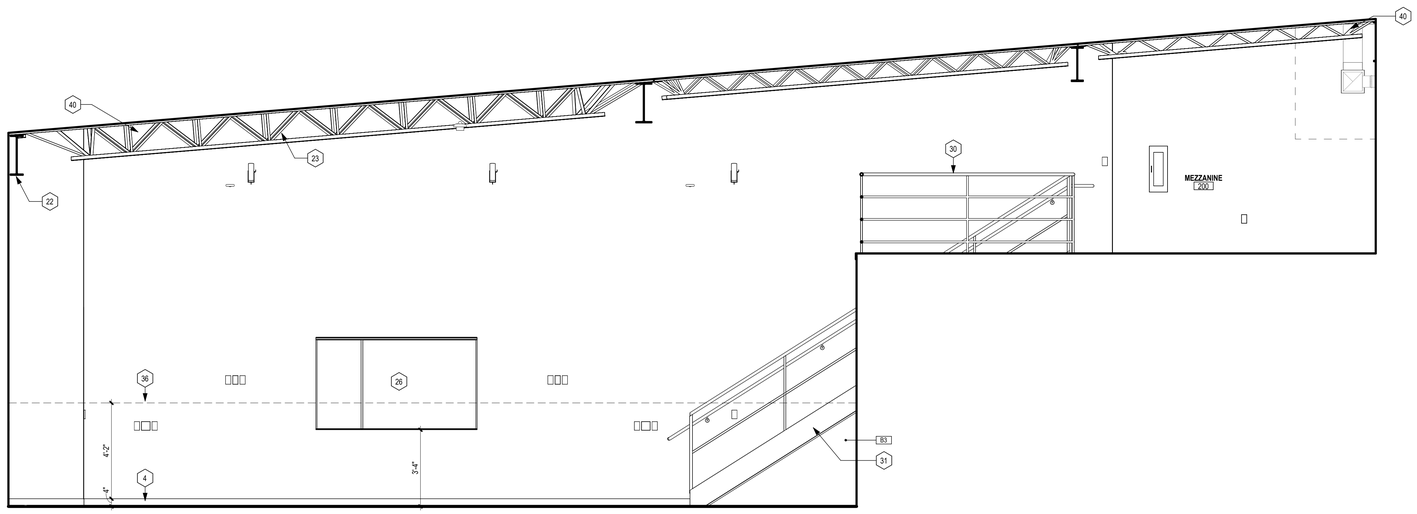
D1 WARM ROOM/TRAINING SOUTH 139
3/8" = 1'-0"



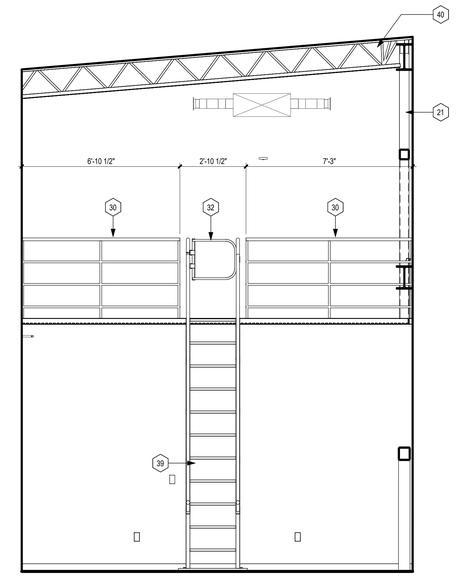
D4 WARM ROOM/TRAINING NORTH 139
3/8" = 1'-0"



B1 WARM ROOM/TRAINING WEST 139
3/8" = 1'-0"



A1 WARM ROOM/TRAINING EAST 139
3/8" = 1'-0"



A6 TRAINING PROP EQUIPMENT STORAGE EAST 145
3/8" = 1'-0"

KEYED NOTES INT. ELEV.

MARK	DESCRIPTION
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2	24"D PLASTIC LAMINATE WALL CABINETS & 24"D BASE CABINETS, SEE FINISH SCHEDULE.
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11	43" MONITOR, PROVIDE BLOCKING, SEE ELECTRICAL DWGS.
12	85" MONITOR PROVIDE BLOCKING, SEE ELECTRICAL DWGS.
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43	43" VERTICAL MONITOR RECESSED INTO MCM PANEL.

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Proposed:
CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE
360340 ECOLOGY DRIVE ST. PETERS, MO 63376

No.	Date	Revision

INTERIOR ELEVATIONS

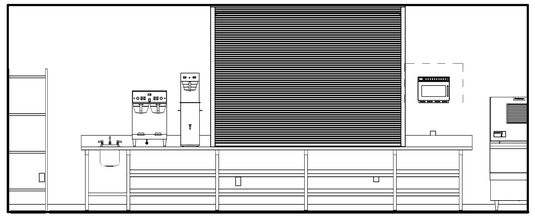
Project No. 23121

Sheet No. A146

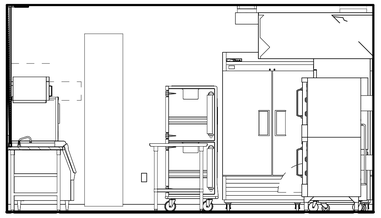
Date 09/16/2025

9/15/2025 10:11:43 AM
C:\Users\rickiefs\Documents\23121 Central Co Fire Training Facility_Fire & Rescue Headquarters_R23_rickiefs.rvt

****REFER TO KICTHEN CONSULTANT DWGS. FOR INFORMATION ON CATERING KITCHEN.****



E1 CATERING KITCHEN NORTH 117
3/8" = 1'-0"

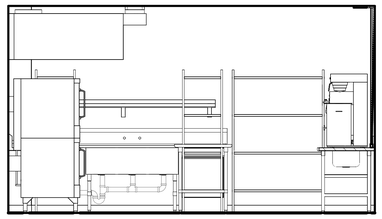


E2 CATERING KITCHEN EAST 117
3/8" = 1'-0"

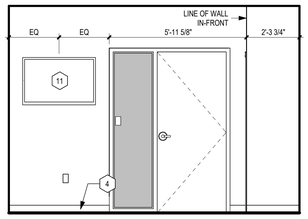


E3 CATERING KITCHEN SOUTH 117
3/8" = 1'-0"

****REFER TO KICTHEN CONSULTANT DWGS. FOR INFORMATION ON CATERING KITCHEN.****



D1 CATERING KITCHEN WEST 117
3/8" = 1'-0"



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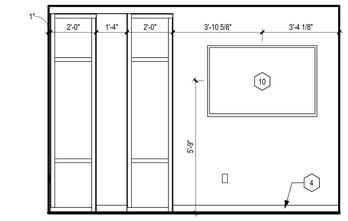

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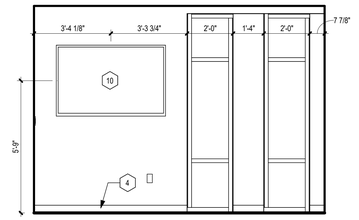

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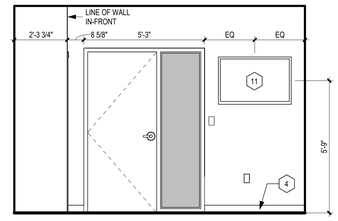

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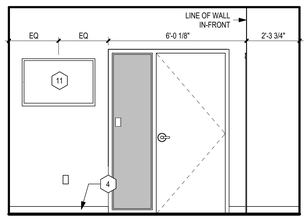

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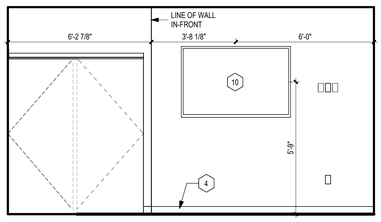
3/8" = 1'-0"



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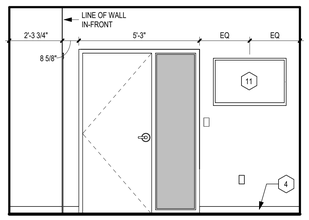
3/8" = 1'-0"



C3 OFFICE 131 NORTH
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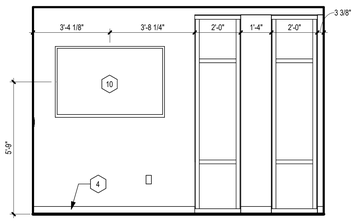

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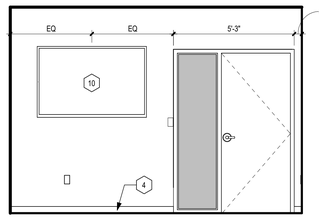

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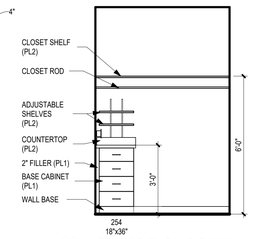

C6 OFFICE CLOSET
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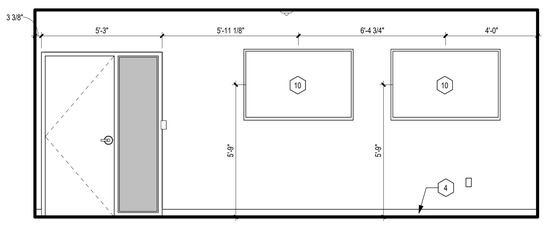

B1 OFFICE 125 EAST
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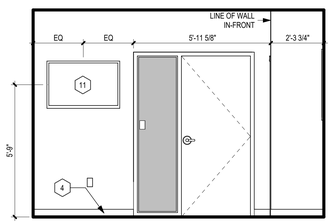

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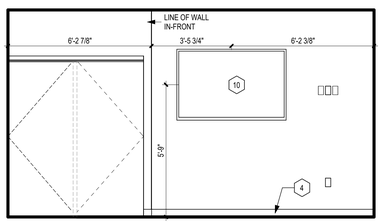
3/8" = 1'-0"



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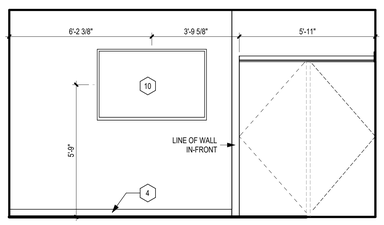

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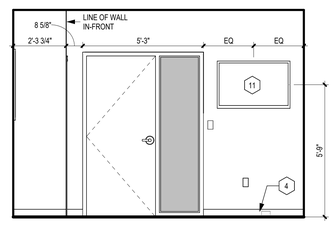
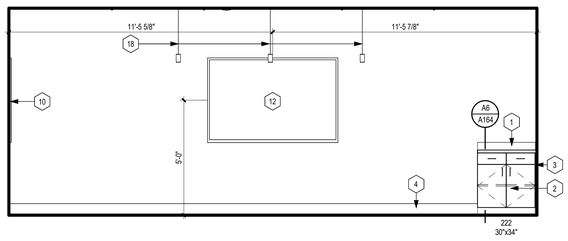


B5 OFFICE 127 NORTH
3/8" = 1'-0"



A1 CONFERENCE WEST 111
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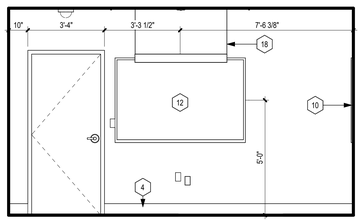

A3 CONFERENCE SOUTH 111
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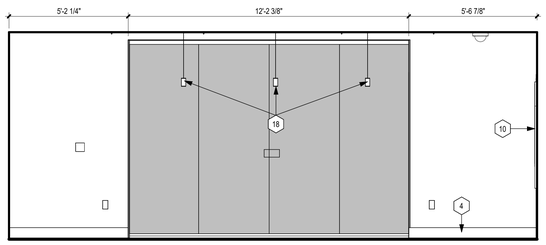

A4 CONFERENCE EAST 111
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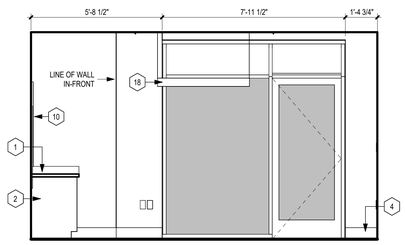

A6 CONFERENCE NORTH 111
3/8" = 1'-0"

MARK	DESCRIPTION
1	25"D PLASTIC LAMINATE COUNTER, 4"H BACKSPLASH & SIDESPLASHS (LEFT OR RIGHT SIDE, AS REQUIRED) W/ UNDER COUNTER METAL SUPPORT BRACKETS AS INDICATED. -SEE FINISH SCHEDULE.
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8	BUILT IN VANITY TOP WITH 25" D SOLID SURFACE COUNTER WITH INTEGRAL SINK, ANGLED PLAS. LAMINATE ADA VANITY CABINET. SEE FINISH SCHEDULE
9	CUSTOM BOARD ROOM WOOD DOORS W/METAL ACCENT & 38"LONG BAR PULLS, SEE FINISH SCHEDULE
10	65" MONITOR PROVIDE BLOCKING, SEE ELECTRICAL DWGS.
11	43" MONITOR, PROVIDE BLOCKING, SEE ELECTRICAL DWGS.
12	85" MONITOR PROVIDE BLOCKING, SEE ELECTRICAL DWGS.
13	HIGH-LOW DRINKING FOUNTAINS WITH BOTTLE FILLERS, SEE PLUMBING AND ELECTRICAL DWGS.
14	DRINKING FOUNTAIN WITH BOTTLE FILLER. SEE PLUMBING AND ELECTRICAL DWGS.
15	COILING COUNTER DOOR, SEE DOOR SCHEDULE FOR DETAILS.
16	OPERABLE PARTITION, SEE DETAILS & SPECS.
17	OVERHEAD DOOR, SEE APPLICABLE DETAILS.
18	SUSPENDED LIGHTING FIXTURE, SEE ELECTRICAL DWGS.
19	SUSPENDED CEILING CLOUD, REFER TO REFLECTED CEILING PLAN AND MATERIAL FINISH LEGEND FOR ADDITIONAL DETAILS.
20	SUSPENDED WALL WASH LIGHT, SEE RCP AND ELECTRICAL FOR DETAILS.
21	EXPOSED COLUMN -SEE STRUCTURAL: PAINTED FINISH.
22	EXPOSED BEAM -SEE STRUCTURAL
23	EXPOSED JOIST, PAINTED - SEE STRUCTURAL DRAWINGS AND INTERIOR FINISH SCHEDULE
24	DIGITALLY PRINTED ACOUSTIC WALL PANELS, SEE FINISH SCHEDULE
25	GALLERY PILASTERS AND SOFFIT PAINT HIGHLIGHT COLOR P6
26	WALL MOUNTED MARKER BOARD, TYP.
27	PAINT WALLS BLACK P10 AND ALL CEILING ITEMS P4, FROM BOTTOM OF JOIST TO DECK, SEE FINISH SCHEDULE
28	ACID ETCHED GLASS PANELS, BUTT JOINED SEE DETAILS &FINISH LEGEND FOR ADDITIONAL INFO
29	WOOD SHIPLAP PANELING & WOOD TRIM W/ MITERED CORNERS, SEE FINISH SCHEDULE.
30	TYPICAL PIPE RAILING, SEE SHEET A165 FOR DETAILS.
31	STAIR TO MEZZANINE, SEE SHEET A165 FOR DETAILS.
32	PARALLEL MOUNTED ALUM SELF-CLOSING SAFETY GATE.
33	STOREFRONT SYSTEM -SEE STOREFRONT ELEVATIONS FOR DETAILS.
34	CLERESTORY STOREFRONT, SEE STOREFRONT ELEVATIONS & DETAILS.
35	FIRE EXTINGUISHER CABINET
36	FRP SEAM LOCATIONS
37	ADDRESS NUMBERS VINYL APPLIQUE SPF5
38	FLOOR MOUNTED OVERHEAD BRACED TOILET PARTITIONS & URINAL SCREENS
39	ALUM. SHIP LADDER. BASIS OF DESIGN O'KEEFFES MODEL 520A, SEE DETAILS.
40	PAINT WHITE, USE NOTE FROM RCP (14)
41	BOTTLE FILLER. SEE PLUMBING AND ELECTRICAL DWGS.
42	MCM REVEAL
43	43" VERTICAL MONITOR RECESSED INTO MCM PANEL.

KEYED NOTES INT. ELEV.

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INTERIOR ELEVATIONS

Project No.
23121

Sheet No.
A147

Date
09/16/2025

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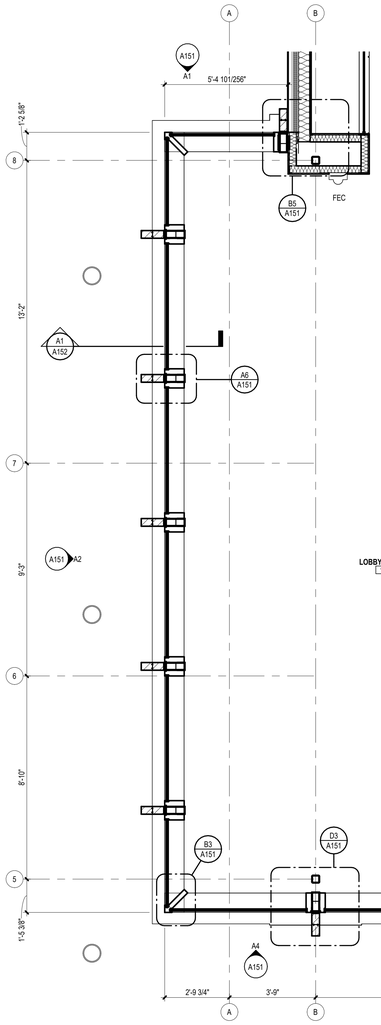
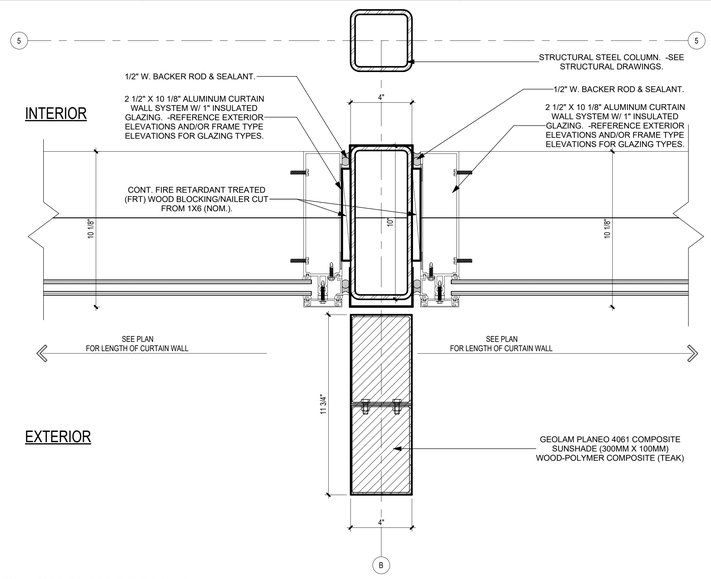


LOBBY/DISPLAY
103

B1 ENLARGED PLAN WEST CURTAIN WALL
3/8" = 1'-0"



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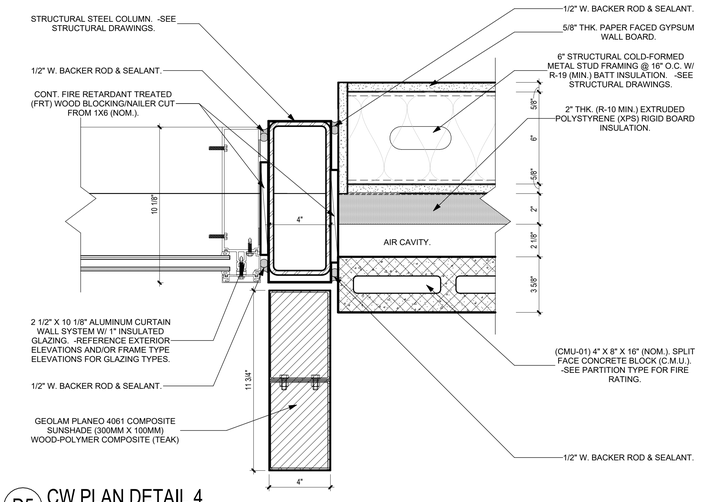

D5 CW PLAN DETAIL 4
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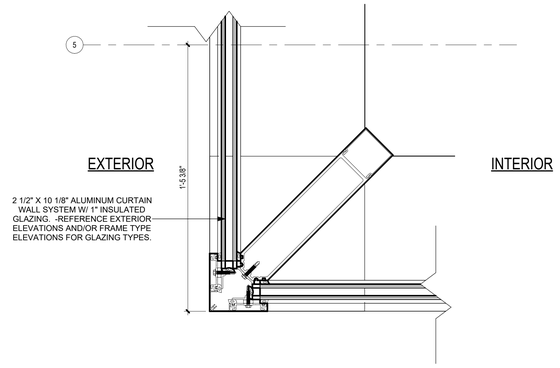

B3 CW PLAN DETAIL 3
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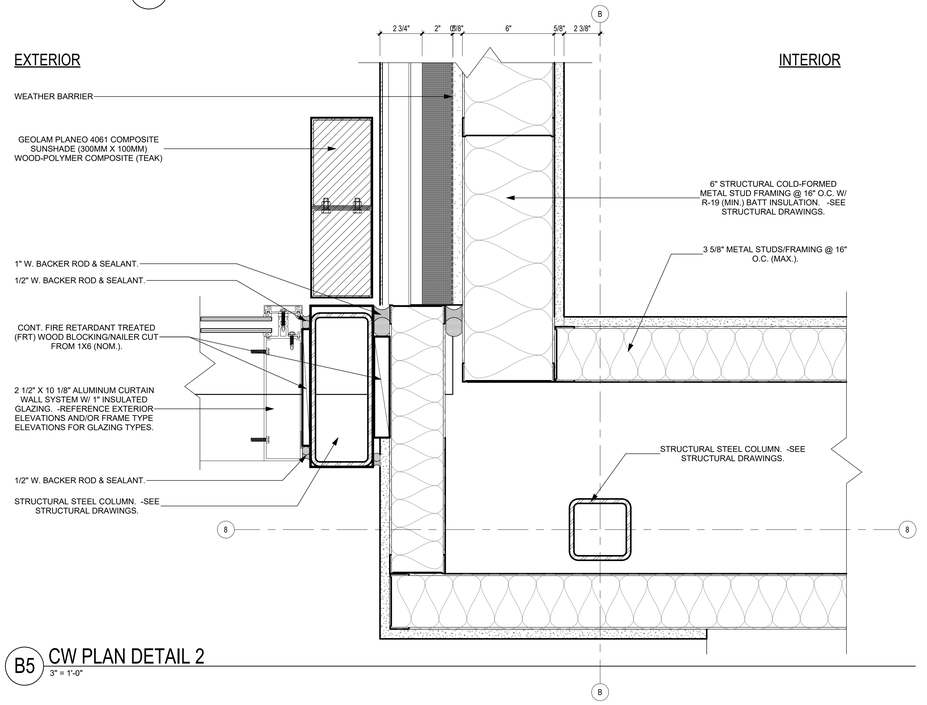

B5 CW PLAN DETAIL 2
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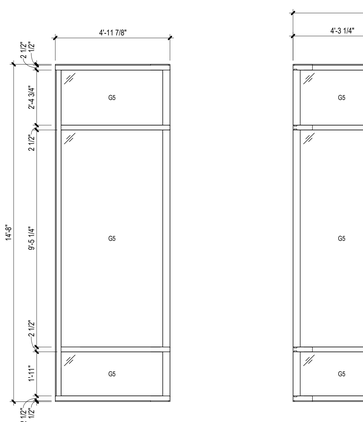
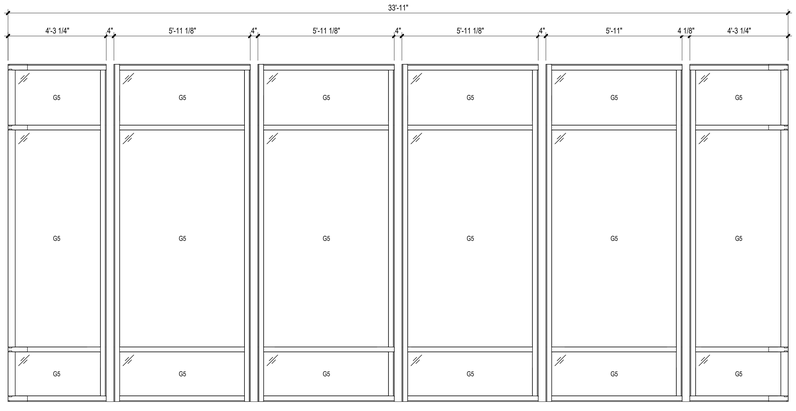
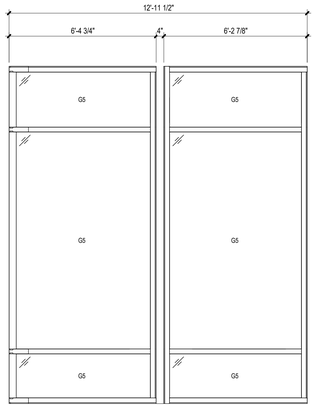


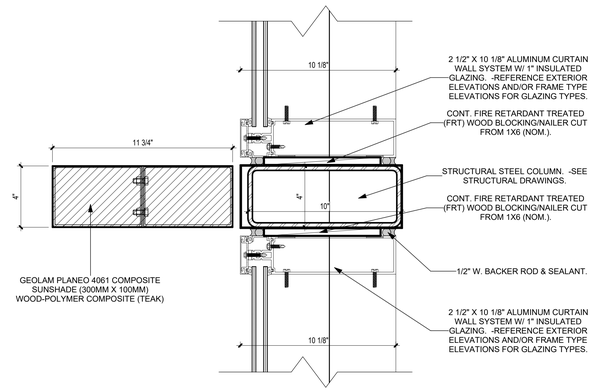
A1 CW NORTH
3/8" = 1'-0"



A2 CW ELEVATION WEST
3/8" = 1'-0"



A4 CW SOUTH
3/8" = 1'-0"



A6 CW PLAN DETAIL 5
3" = 1'-0"

SCALE: 3" = 1'-0"
SCALE: 1 1/2" = 1'-0"
SCALE: 1" = 1'-0"
SCALE: 3/4" = 1'-0"
SCALE: 1/2" = 1'-0"
SCALE: 3/8" = 1'-0"
SCALE: 1/4" = 1'-0"
SCALE: 1/8" = 1'-0"
SCALE: 3/32" = 1'-0"
SCALE: 1/16" = 1'-0"

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No.	Date	Revision

DETAILS

Project No.
23121

Sheet No.
A151

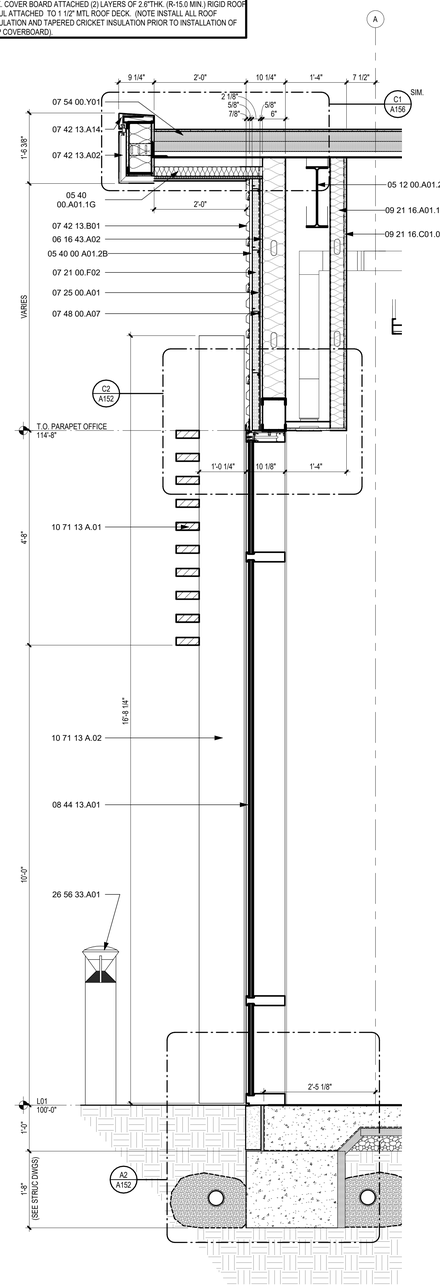
Date
09/16/2025

KEYED NOTES WALL SECTION

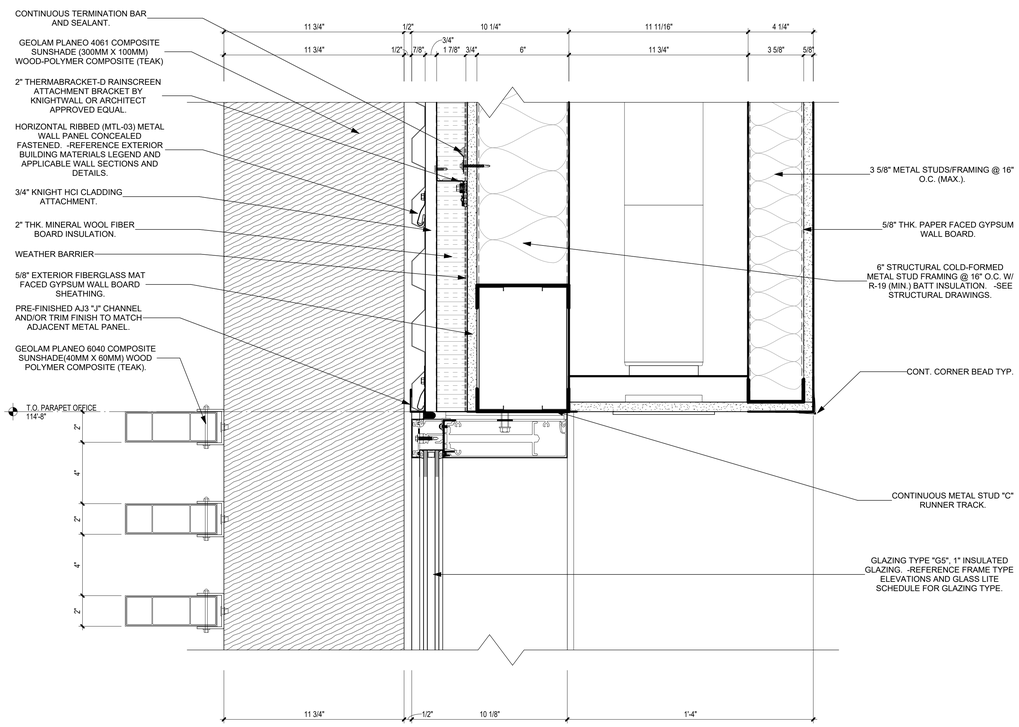
Key Value	Keynote Text
03 30 00.A05.01	CAST-IN-PLACE CONCRETE FOOTING. -SEE STRUCTURAL DRAWINGS.
03 30 00.A05.09	CAST-IN PLACE CONCRETE FLOOR SLAB. -SEE STRUCTURAL DRAWINGS.
04 20 00.Z01	CONTINUOUS TERMINATION BAR AND SEALANT.
04 72 00.A07	ST-01 CAST STONE SILL (SP-4) -REFERENCE EXTERIOR ELEVATIONS AND STONE BANDING PROFILES FOR TYPE AND DIMENSIONS. SHEET A006
05 12 00.A01.2	STRUCTURAL STEEL BEAM. -SEE STRUCTURAL DRAWINGS.
05 40 00 A01.2B	3/4" KNIGHT HCI CLADDING ATTACHMENT.
05 40 00 E01	CONTINUOUS METAL STUD "C" RUNNER TRACK.
05 40 00.A01.1A	6" STRUCTURAL COLD-FORMED METAL STUD FRAMING @ 16" O.C. W/ R-19 (MIN.) BATT INSULATION. -SEE STRUCTURAL DRAWINGS.
05 40 00.A01.1G	2 1/2" COLD-FORMED METAL STUD FRAMING @ 16" O.C.
06 16 43.A02	5/8" EXTERIOR FIBERGLASS MAT FACED GYPSUM WALL BOARD SHEATHING.
07 21 00.A12	2" THK (R-8.4 MIN.) EXTRUDED POLYSTYRENE (XPS) RIGID BOARD PERIMETER INSULATION.
07 21 00.A13	3/4" THK (R-3.9 MIN.) EXTRUDED POLYSTYRENE (XPS) RIGID BOARD PERIMETER INSULATION.
07 21 00.F02	2" THK. MINERAL WOOL FIBER BOARD INSULATION.
07 25 00.A01	WEATHER BARRIER
07 26 00.A03	15 MIL. VAPOR RETARDER/BARRIER.
07 42 13.A02	MICA MNC CLEAR METAL COMPOSITE MATERIAL (MCM-02) SHEET. -SEE EXT. BLDG. MTLS. LEGEND.
07 42 13.A14	MCM RAINSCREEN PANEL COPING. PROVIDE BACKER ROD & SEALANT IN ALL SKYWARD JOINTS. SEALANT COLOR TO MATCH MCM COLOR UNLESS OTHERWISE INDICATED.
07 42 13.B01	HORIZONTAL RIBBED (MTL-03) METAL WALL PANEL CONCEALED FASTENED. -REFERENCE EXTERIOR BUILDING MATERIALS LEGEND AND APPLICABLE WALL SECTIONS AND DETAILS.
07 48 00.A07	2" THERMABRACKET-D RAINSCREEN ATTACHMENT BRACKET BY KNIGHTWALL OR ARCHITECT APPROVED EQUAL.
07 54 00.Y01	ROOF SYSTEM TYPE A: FULLY ADHERED TPO MEMBRANE ROOFING OVER 1/2" THK. COVER BOARD ATTACHED (2) LAYERS OF 2.6"THK. (R-15.0 MIN.) RIGID ROOF INSUL ATTACHED TO 1 1/2" MTL ROOF DECK. (NOTE INSTALL ALL ROOF INSULATION AND TAPERED CRICKET INSULATION PRIOR TO INSTALLATION OF TOP COVERBOARD).

KEYED NOTES WALL SECTION

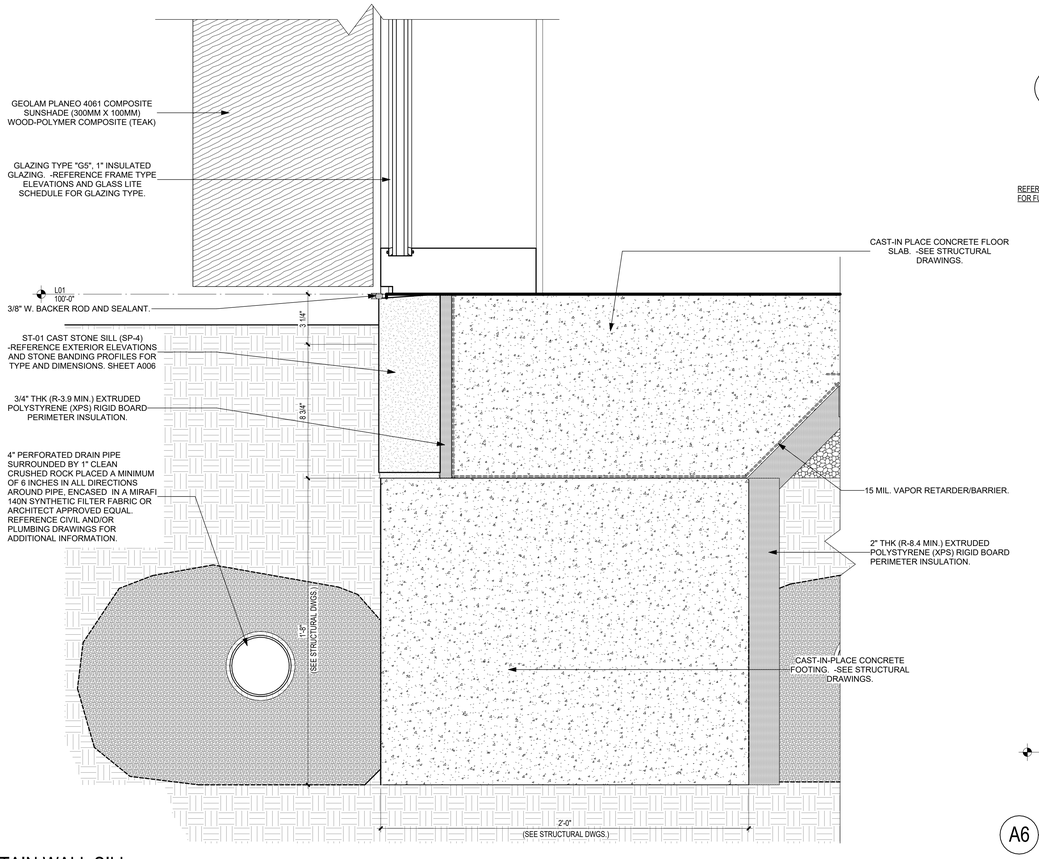
Key Value	Keynote Text
07 62 00.A02.3	PRE-FINISHED AJ3 "J" CHANNEL AND/OR TRIM FINISH TO MATCH ADJACENT METAL PANEL.
07 90 05.A04.02	3/8" W. BACKER ROD AND SEALANT.
08 44 13.A01	2 1/2" X 10 1/8" ALUMINUM CURTAIN WALL SYSTEM W/ 1" INSULATED GLAZING. -REFERENCE EXTERIOR ELEVATIONS AND/OR FRAME TYPE ELEVATIONS FOR GLAZING TYPES.
08 80 00 01E	GLAZING TYPE "GS", 1" INSULATED GLAZING. -REFERENCE FRAME TYPE ELEVATIONS AND GLASS LITE SCHEDULE FOR GLAZING TYPE.
09 21 16.A01.10	3 5/8" METAL STUDS/FRAMING @ 16" O.C. (MAX.).
09 21 16.C01.04	5/8" THK. PAPER FACED GYPSUM WALL BOARD.
09 21 16.E04	CONT. CORNER BEAD TYP.
10 71 13 A.01	GEOLAM PLANEO 6040 COMPOSITE SUNSHADE(40MM X 60MM) WOOD POLYMER COMPOSITE (TEAK).
10 71 13 A.02	GEOLAM PLANEO 4061 COMPOSITE SUNSHADE (300MM X 100MM) WOOD-POLYMER COMPOSITE (TEAK)
26 56 33.A01	LIGHT BOLLARD. -SEE ELECTRICAL DRAWINGS.
33 46 13.A02	4" PERFORATED DRAIN PIPE SURROUNDED BY 1" CLEAN CRUSHED ROCK PLACED A MINIMUM OF 6 INCHES IN ALL DIRECTIONS AROUND PIPE. ENCASED IN A MIRAFI 140N SYNTHETIC FILTER FABRIC OR ARCHITECT APPROVED EQUAL. REFERENCE CIVIL AND/OR PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.



A1 WALL SECTION @ WEST CURTAIN WALL
3/4" = 1'-0"

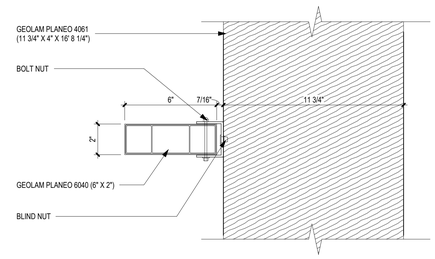


C2 CURTAIN WALL HEAD
3" = 1'-0"



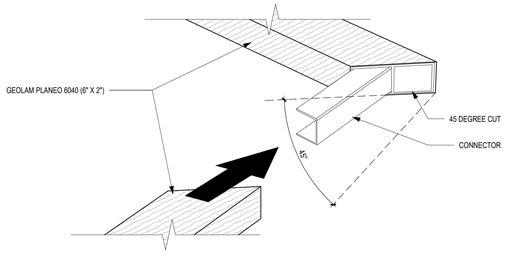
A2 CURTAIN WALL SILL
3" = 1'-0"

REFERENCE GEOLAM INSTALLATION GUIDE FOR FURTHER INSTRUCTION AND DETAILS



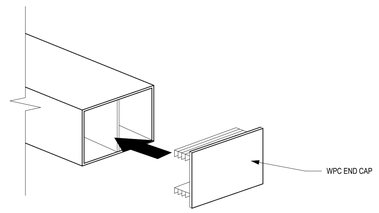
D6 GEOLAM @ CW
3" = 1'-0"

REFERENCE GEOLAM INSTALLATION GUIDE FOR FURTHER INSTRUCTION AND DETAILS

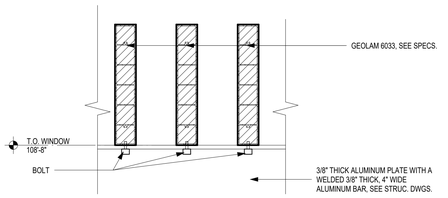


C6 GEOLAM CORNER CONNECTOR
N.T.S.

REFERENCE GEOLAM INSTALLATION GUIDE FOR FURTHER INSTRUCTION AND DETAILS



B6 GEOLAM END CAP
N.T.S.



A6 ENALRGED DETAIL @ NORTH WALL SUNSCREEN
3" = 1'-0"

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Project No.
23121

Sheet No.
A152

Date
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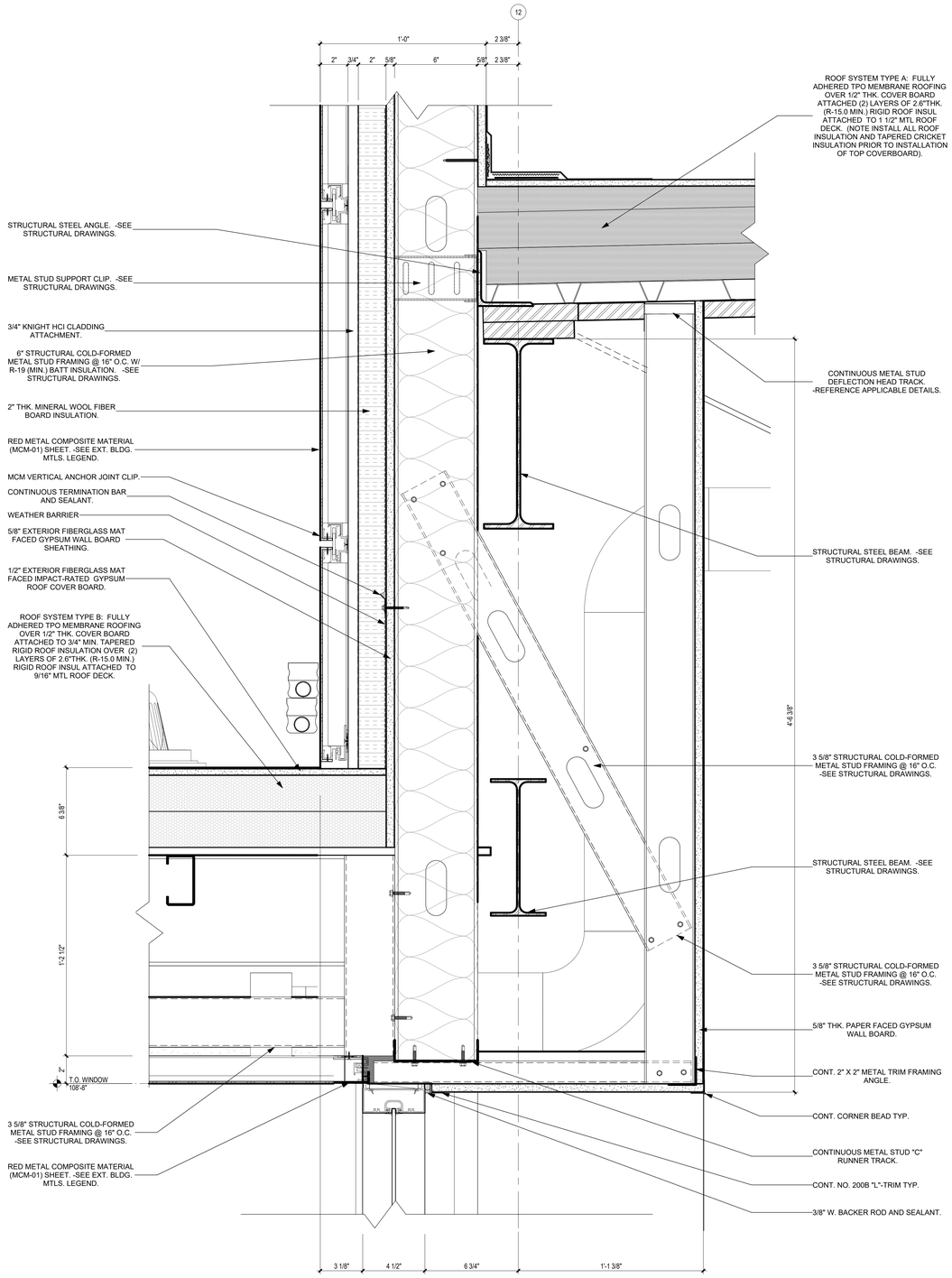

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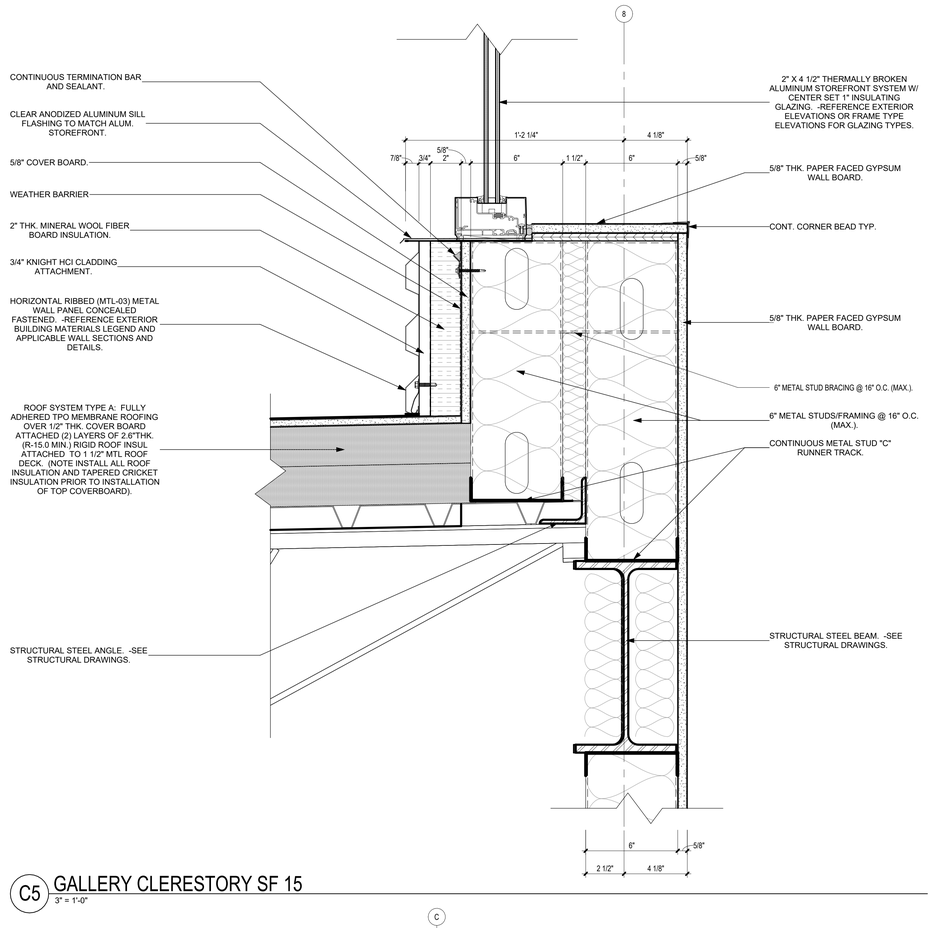

C5 GALLERY CLERESTORY SF 15
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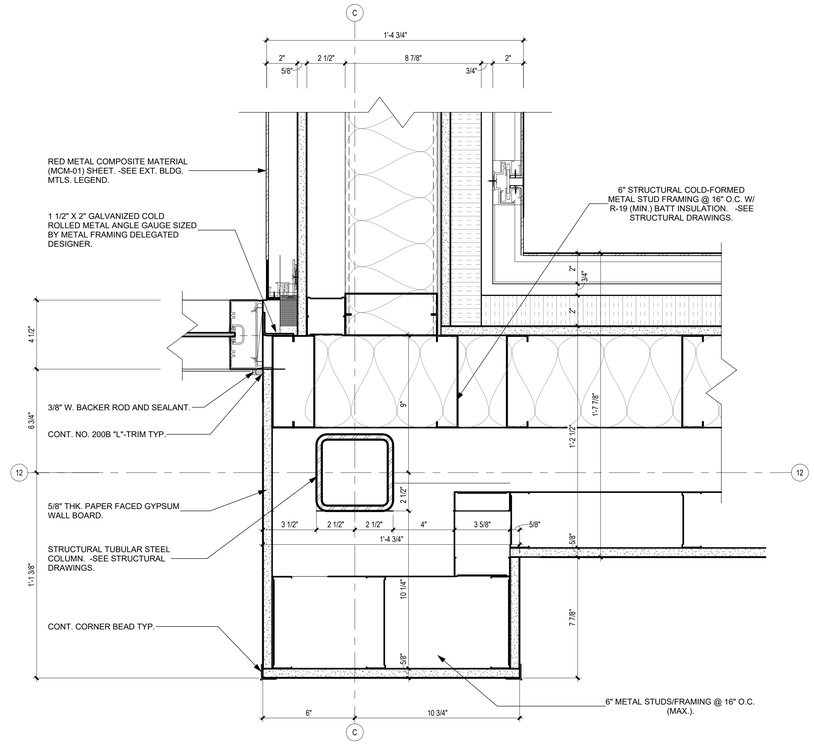

A4 ENLGD. INT. ENTRY VEST. JAMB DET.
3" = 1'-0"

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DETAILS

Project No. 23121
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Date 09/16/2025

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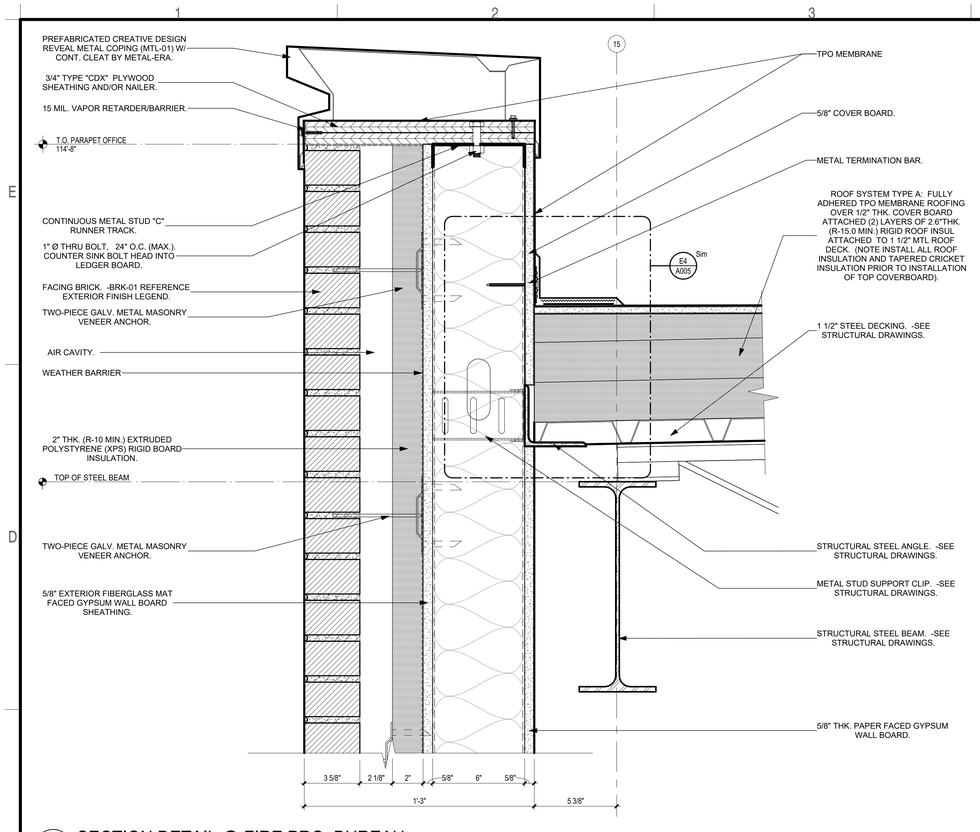

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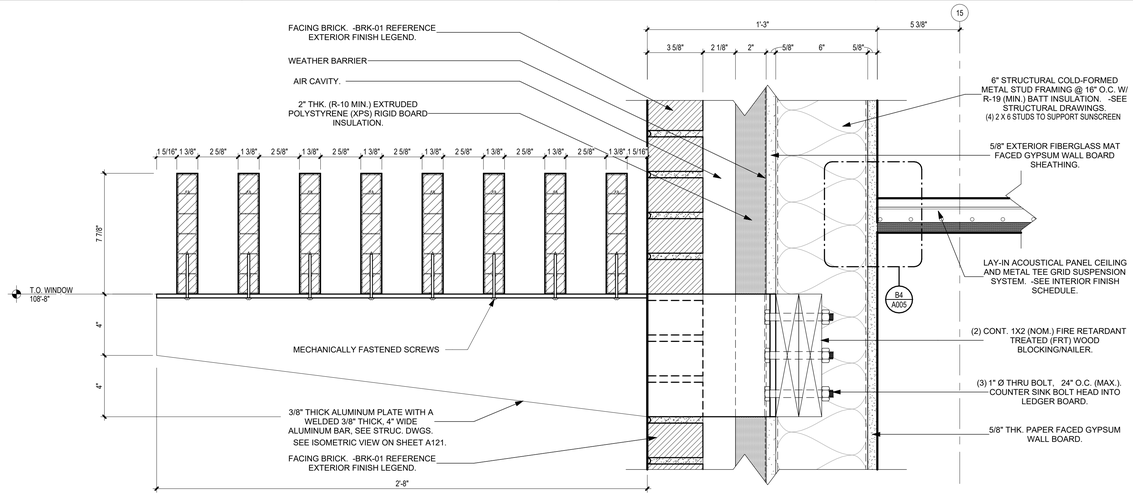
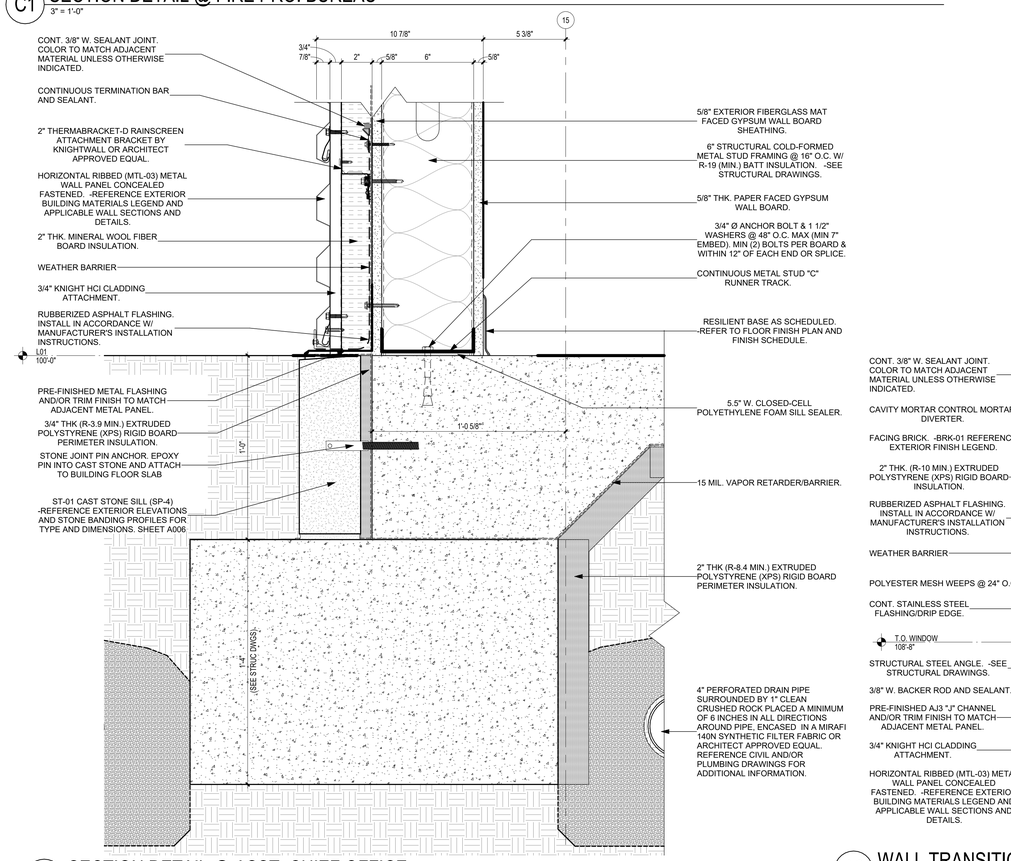


D4 GEOLAM SUNSCREEN @ BRICK WALL NORTH
3" = 1'-0"



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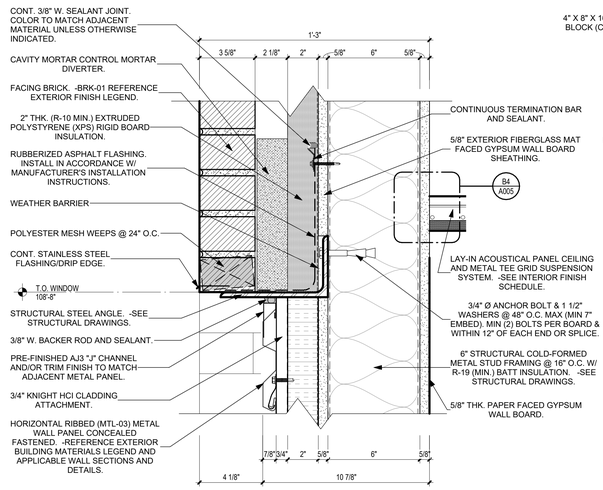
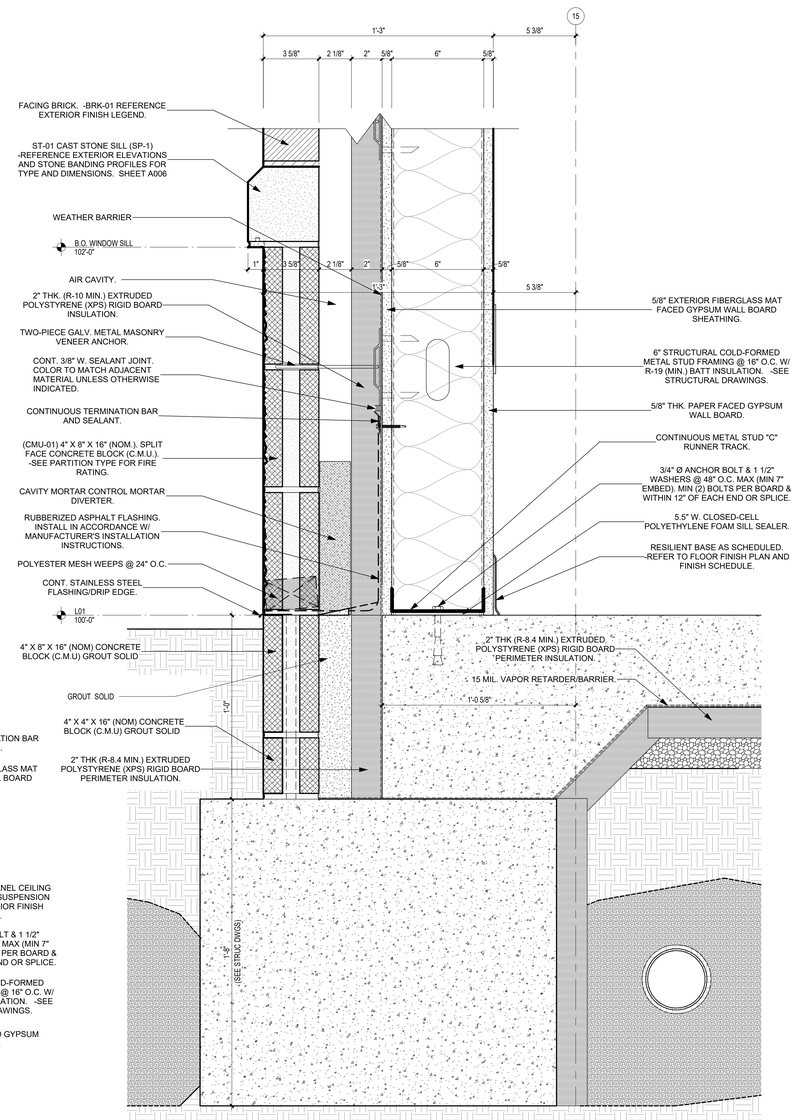


A3 WALL TRANSITION @ MTL. PANEL, BRICK
3" = 1'-0"



A5 SECTION DETAIL @ OFFICE 135
3" = 1'-0"

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Project No. 23121

Sheet No. A154

Date 09/16/2025

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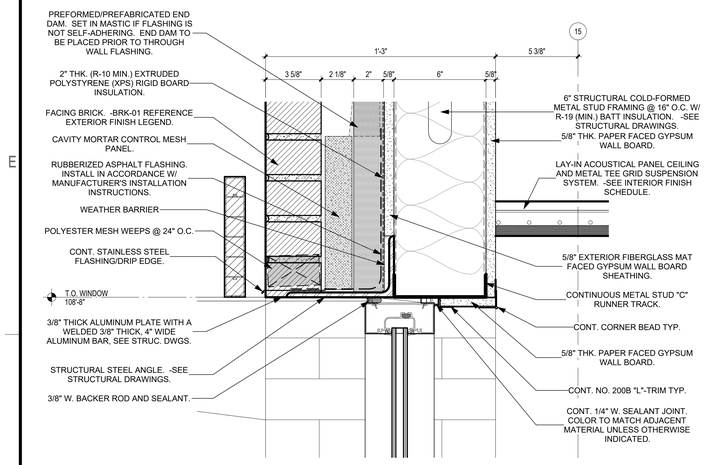
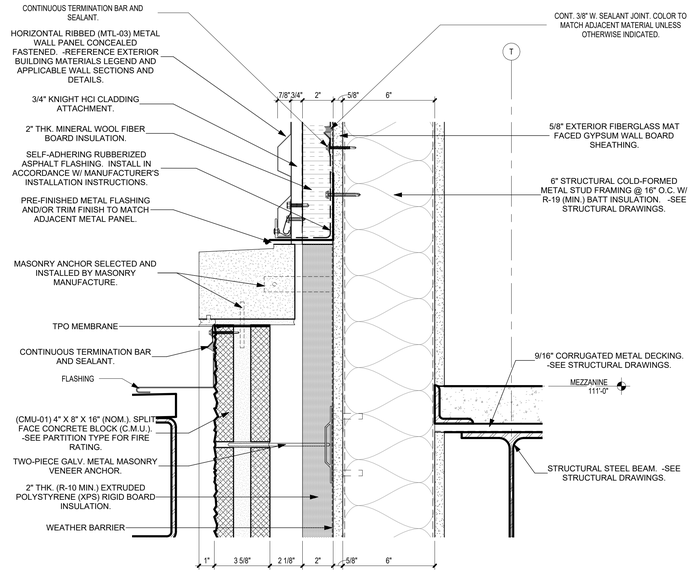
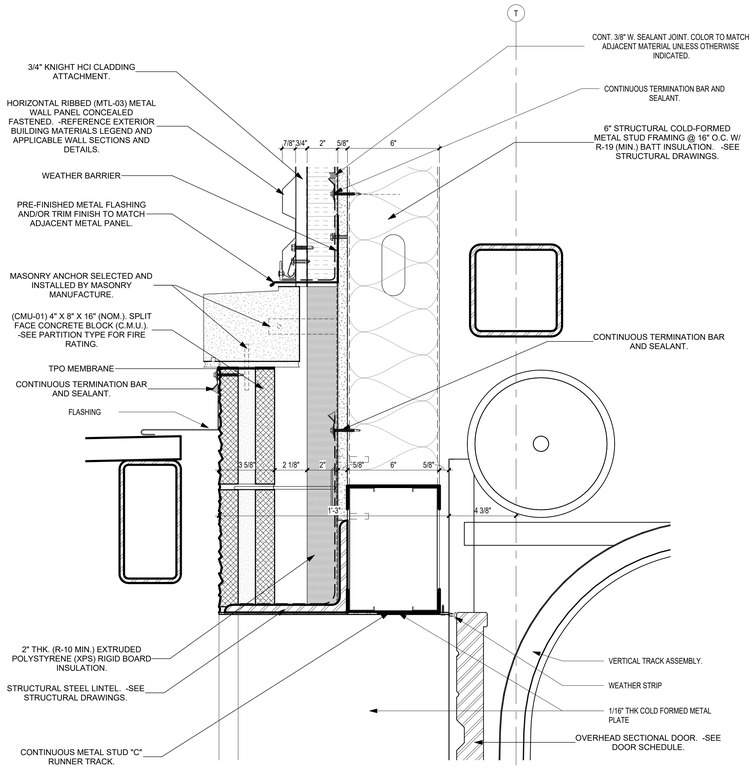


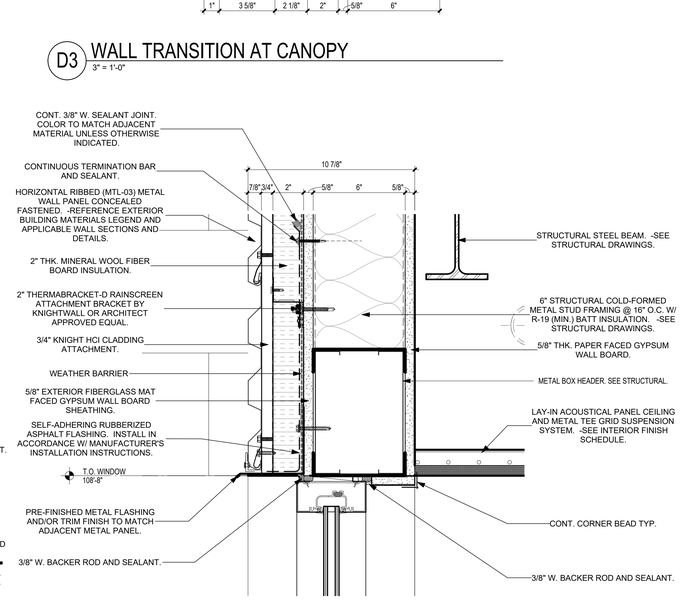
D1 EXT. SF HEAD @ BRICK WALL
3" = 1'-0"



D3 WALL TRANSITION AT CANOPY
3" = 1'-0"



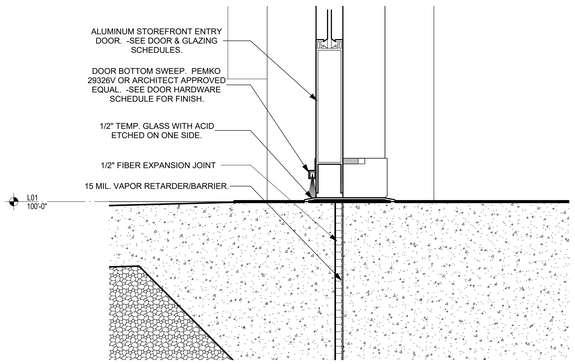
C5 DOOR 139C - HEAD DETAIL
3" = 1'-0"



B3 SECTION DETAIL @ DOOR 136A HEAD
3" = 1'-0"

A5 DOOR 139C - JAMB DETAIL
3" = 1'-0"

A1 SECTION DETAIL @ CHIEF'S OFFICE
3" = 1'-0"



A3 SECTION DETAIL @ DOOR 136A
3" = 1'-0"

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Proposed:
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360/340 ECOLOGY DRIVE
ST. PETERS, MO 63376

No.	Date	Revision

DETAILS

Project No. 23121
Sheet No. A155
Date 09/16/2025

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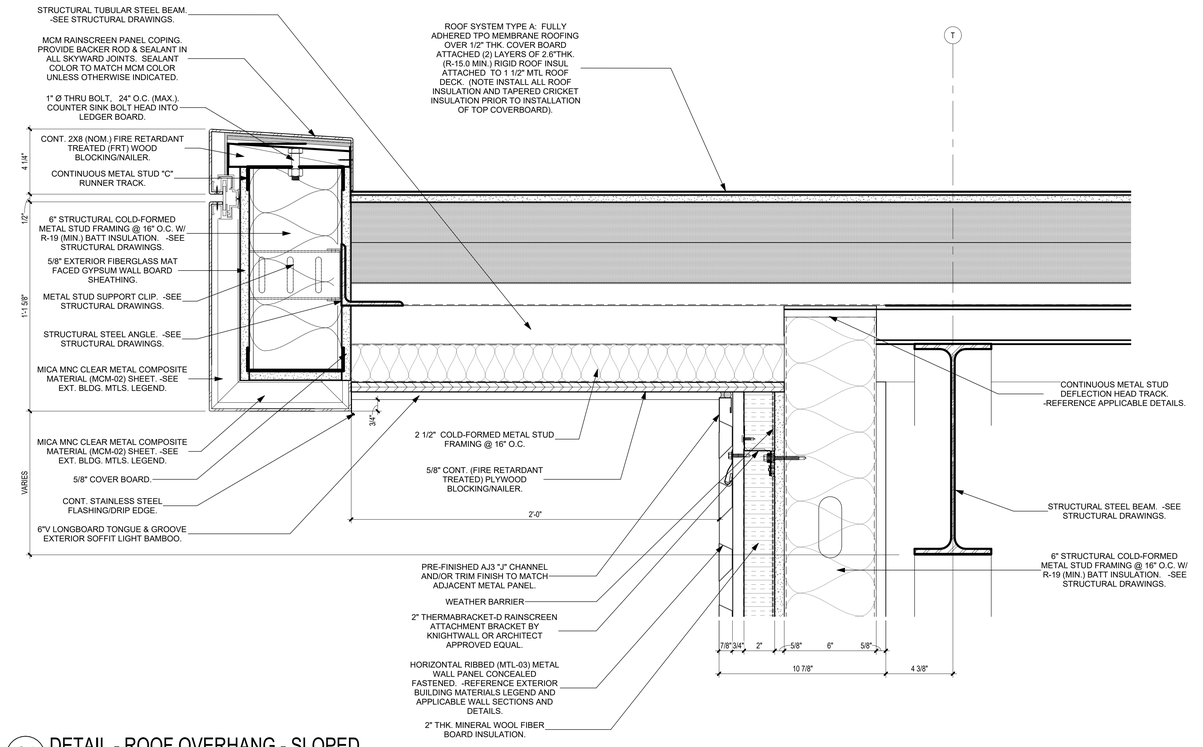
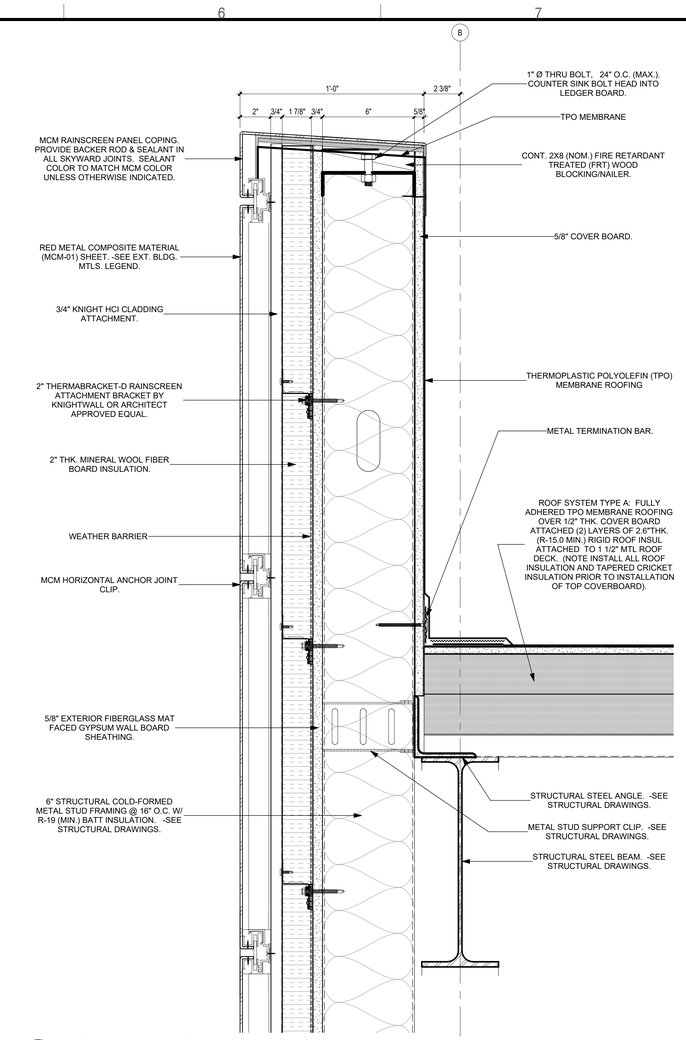
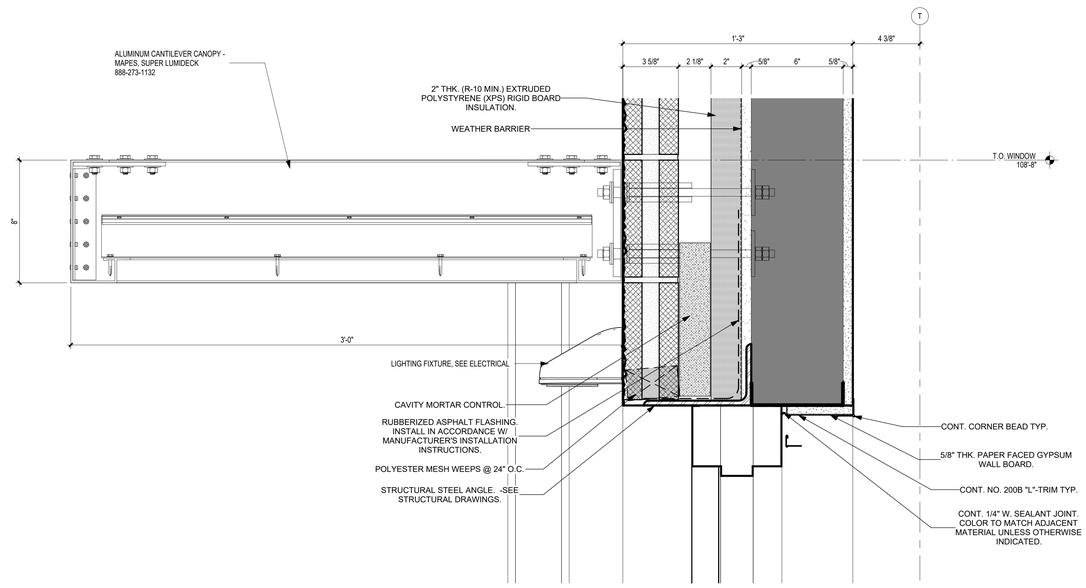


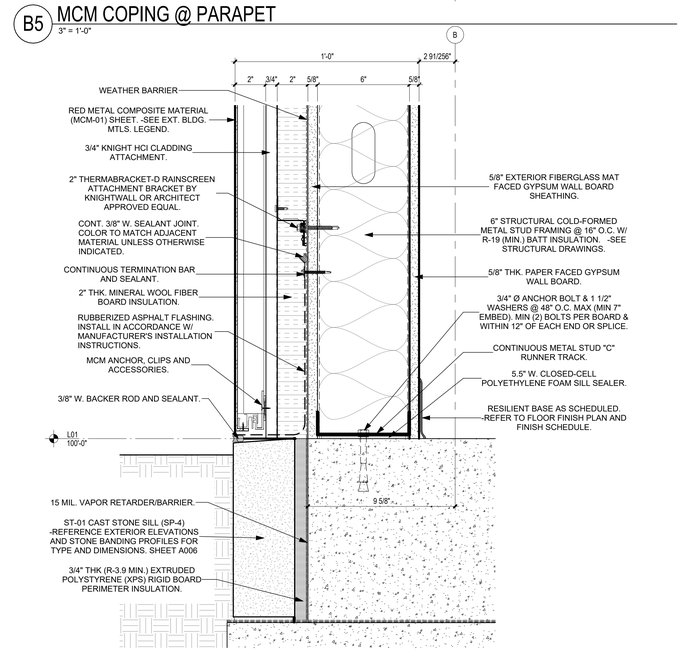
C1 DETAIL - ROOF OVERHANG - SLOPED
3" = 1'-0"



B5 MCM COPING @ PARAPET
3" = 1'-0"



A1 SECTION @ CANOPY OVER DOOR 145
3" = 1'-0"



A5 SECTION DETAIL @ DISPLAY CASE
3" = 1'-0"

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No.	Date	Revision

DETAILS

Project No. 23121

Sheet No. A156

Date 09/16/2025

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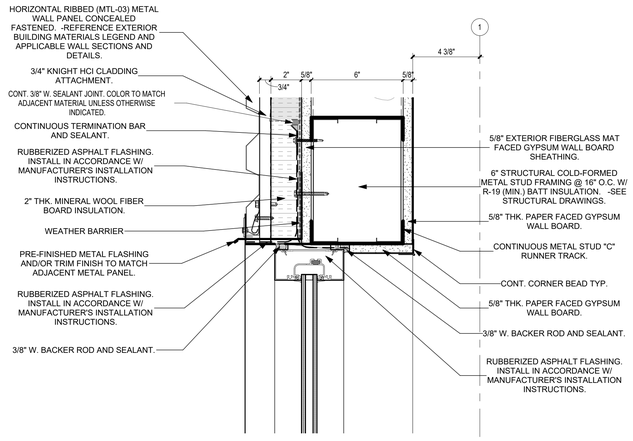
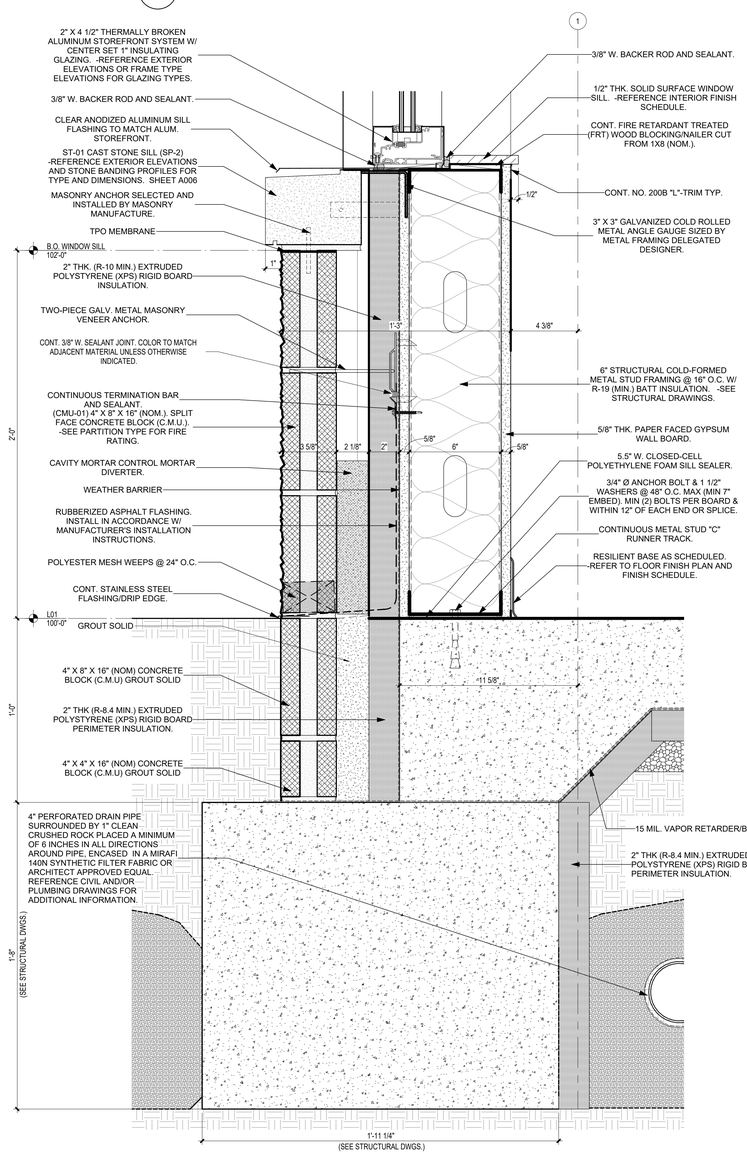
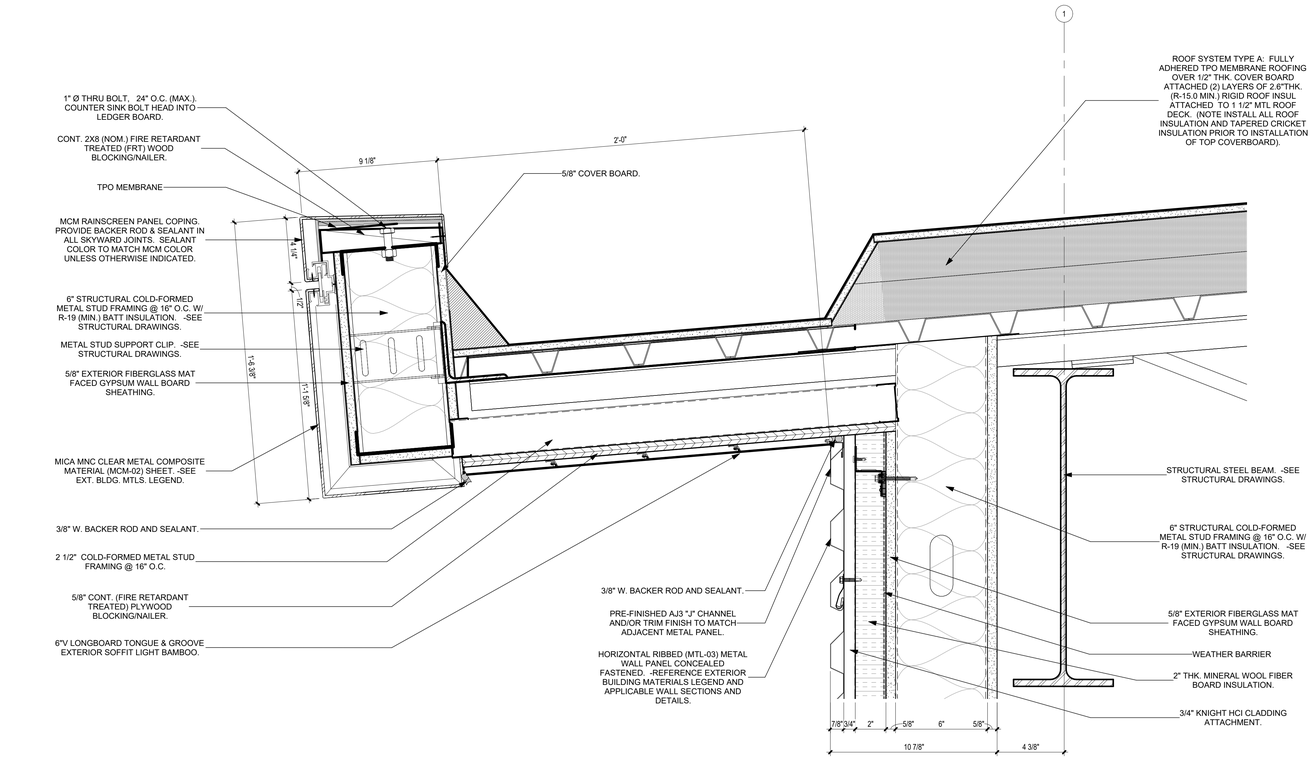


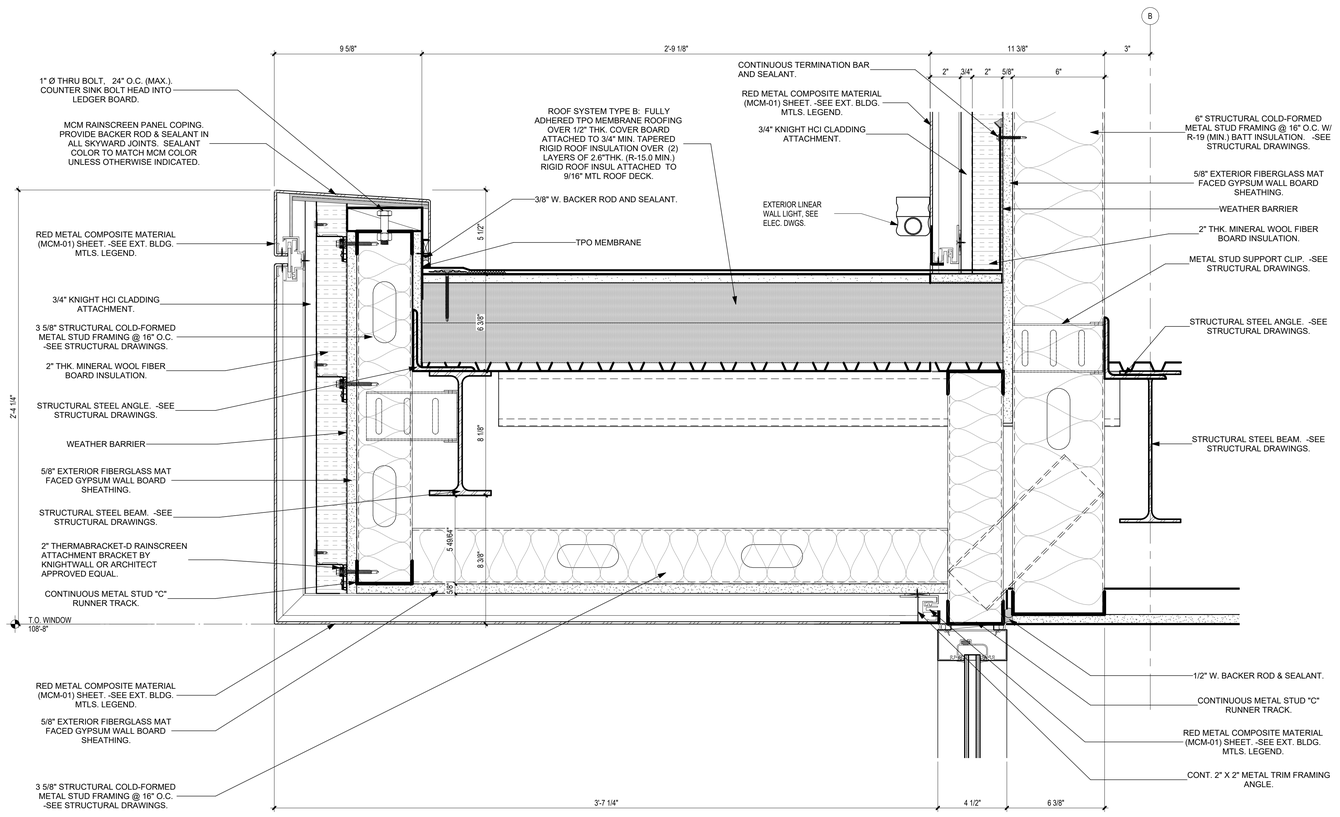
D1 EXT. STOREFRONT HEAD @ MTL. PANEL
3" = 1'-0"



A1 EXT. STOREFRONT SILL @ CMU WALL
3" = 1'-0"



C3 MCM COPING @ HIGH ROOF SOUTH
3" = 1'-0"



A3 MCM COPING @ VESTIBULE OVERHANG
3" = 1'-0"

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380/340 ECOLOGY DRIVE

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SCALE: 3" = 1'-0" | SCALE: 1 1/2" = 1'-0" | SCALE: 1" = 1'-0" | SCALE: 3/4" = 1'-0" | SCALE: 1/2" = 1'-0" | SCALE: 3/8" = 1'-0" | SCALE: 1/4" = 1'-0" | SCALE: 1/8" = 1'-0" | SCALE: 3/32" = 1'-0" | SCALE: 1/16" = 1'-0"

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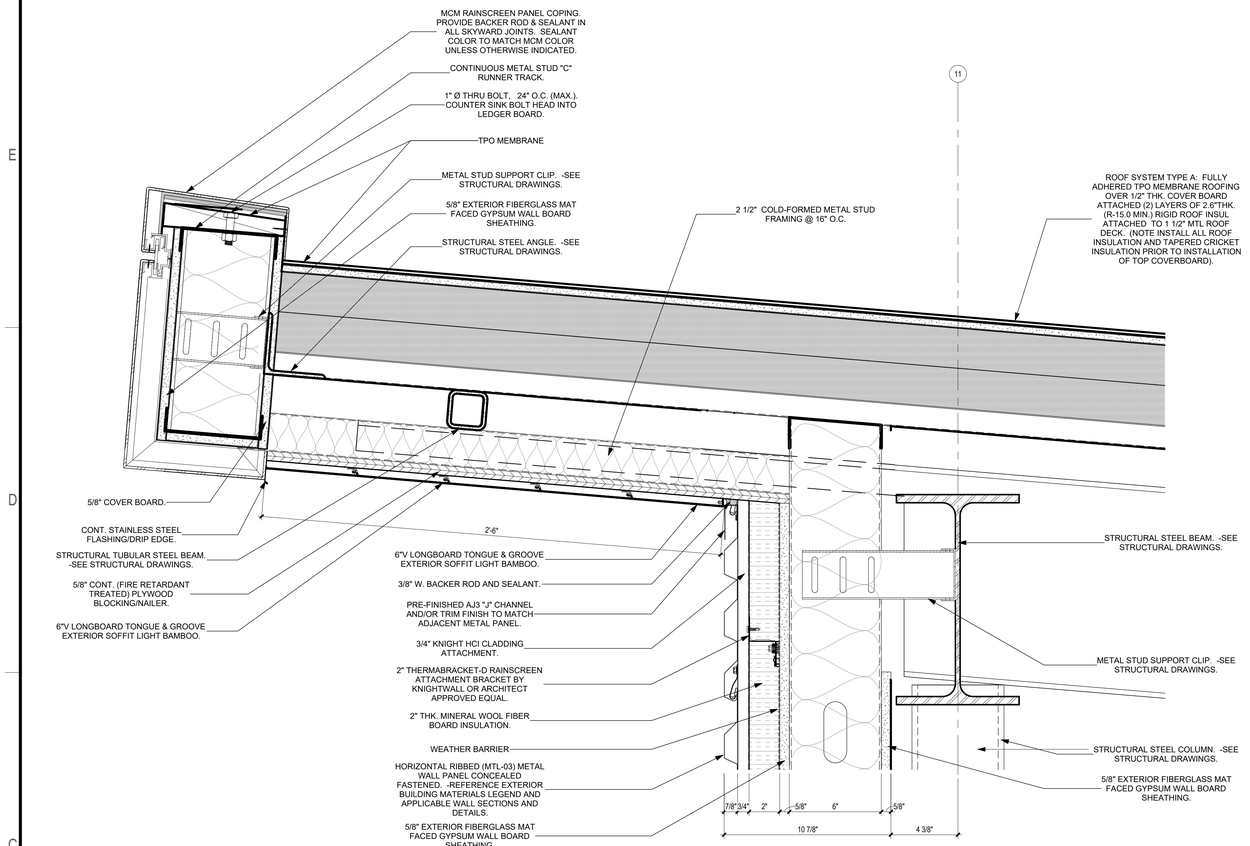
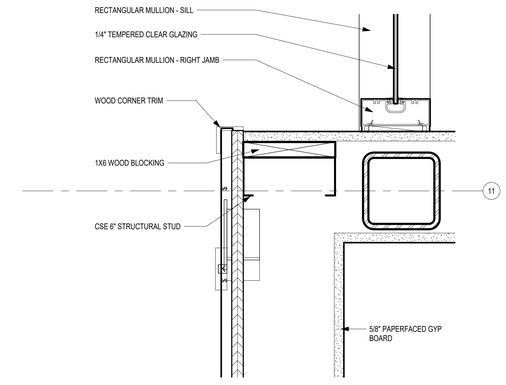
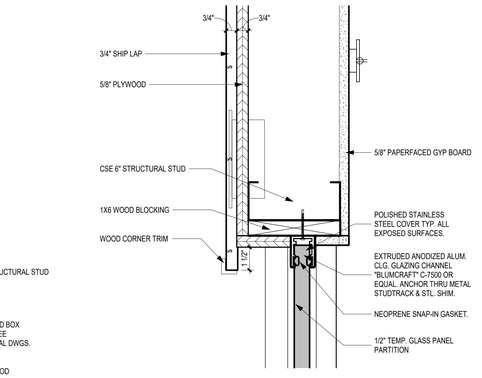
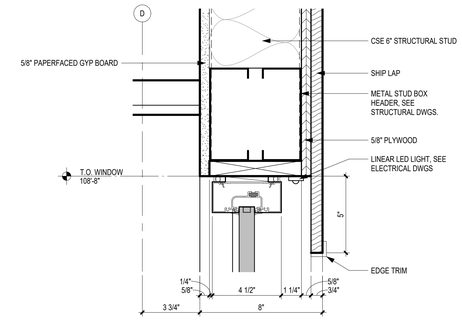


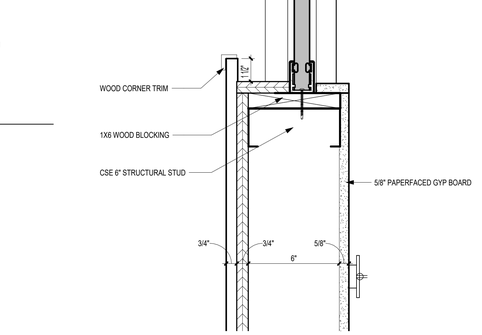
C1 MCM COPING @ HIGH ROOF NORTH
3" = 1'-0"

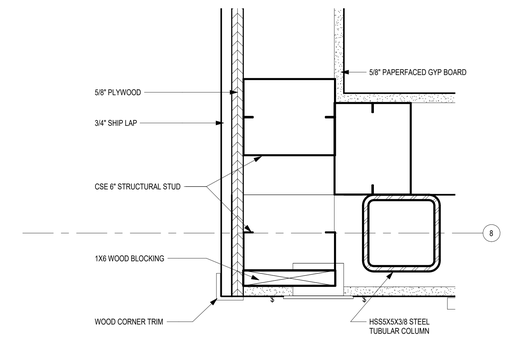


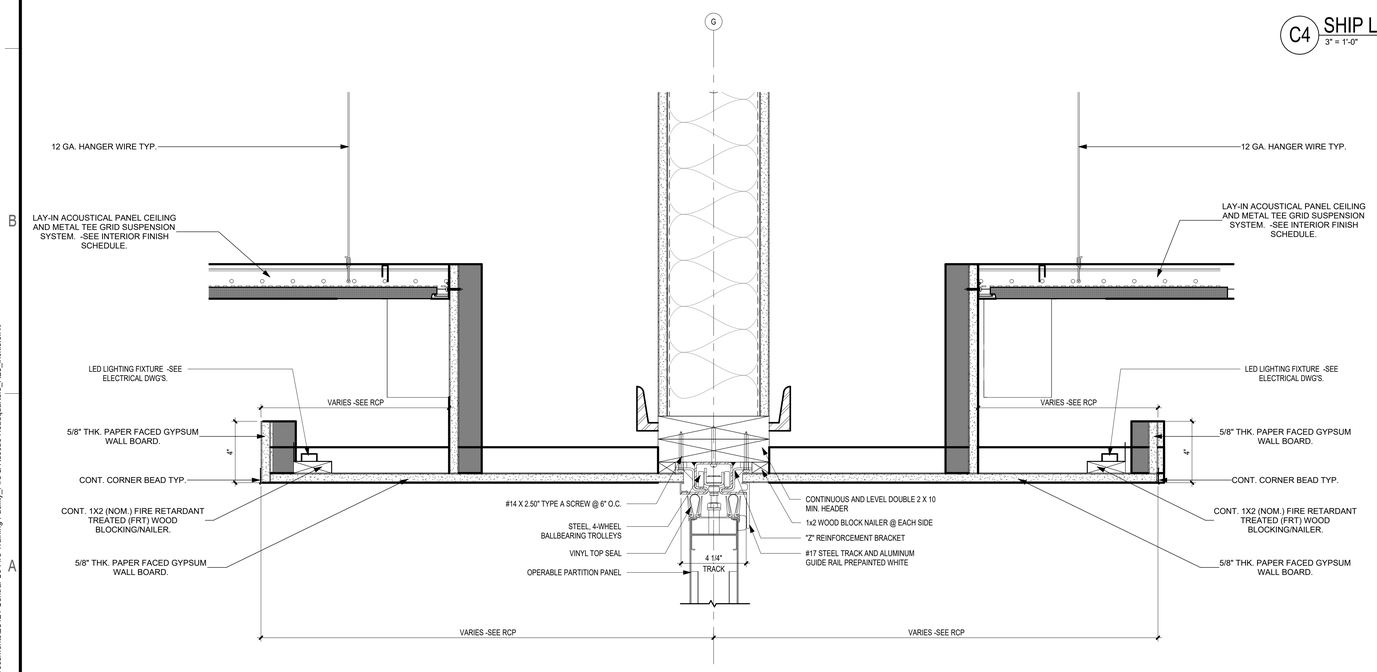




C4 SHIP LAP WALL HEADER
3" = 1'-0"







A1 OPERABLE PARTITION HEAD
3" = 1'-0"

A6 ENLARGED PLAN @ SHIP LAP WALL
3" = 1'-0"

SCALE: 3" = 1'-0"
SCALE: 1 1/2" = 1'-0"
SCALE: 1" = 1'-0"
SCALE: 3/4" = 1'-0"
SCALE: 1/2" = 1'-0"
SCALE: 3/8" = 1'-0"
SCALE: 1/4" = 1'-0"
SCALE: 1/8" = 1'-0"
SCALE: 3/32" = 1'-0"
SCALE: 1/16" = 1'-0"

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380/340 ECOLOGY DRIVE

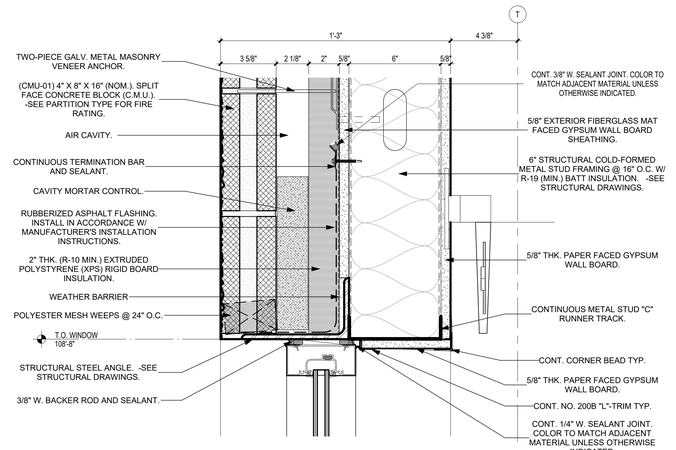
No.	Date	Revision

DETAILS

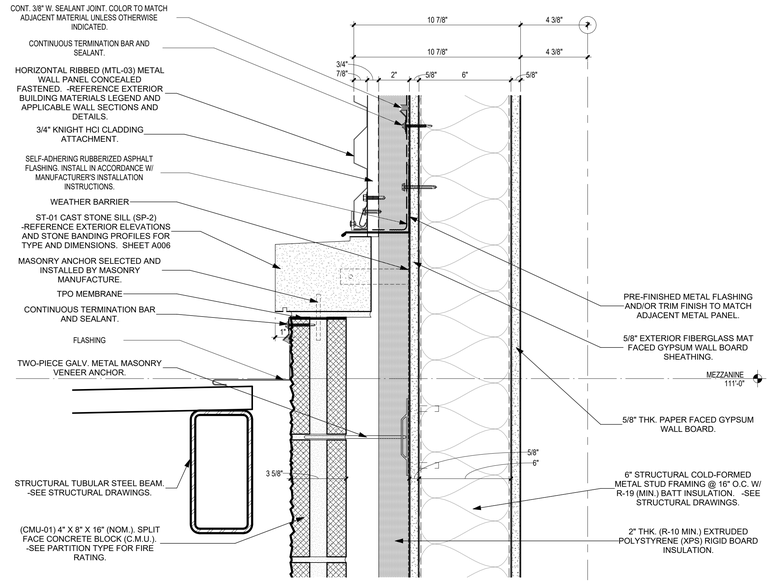
Project No.
23121

Sheet No.
A158

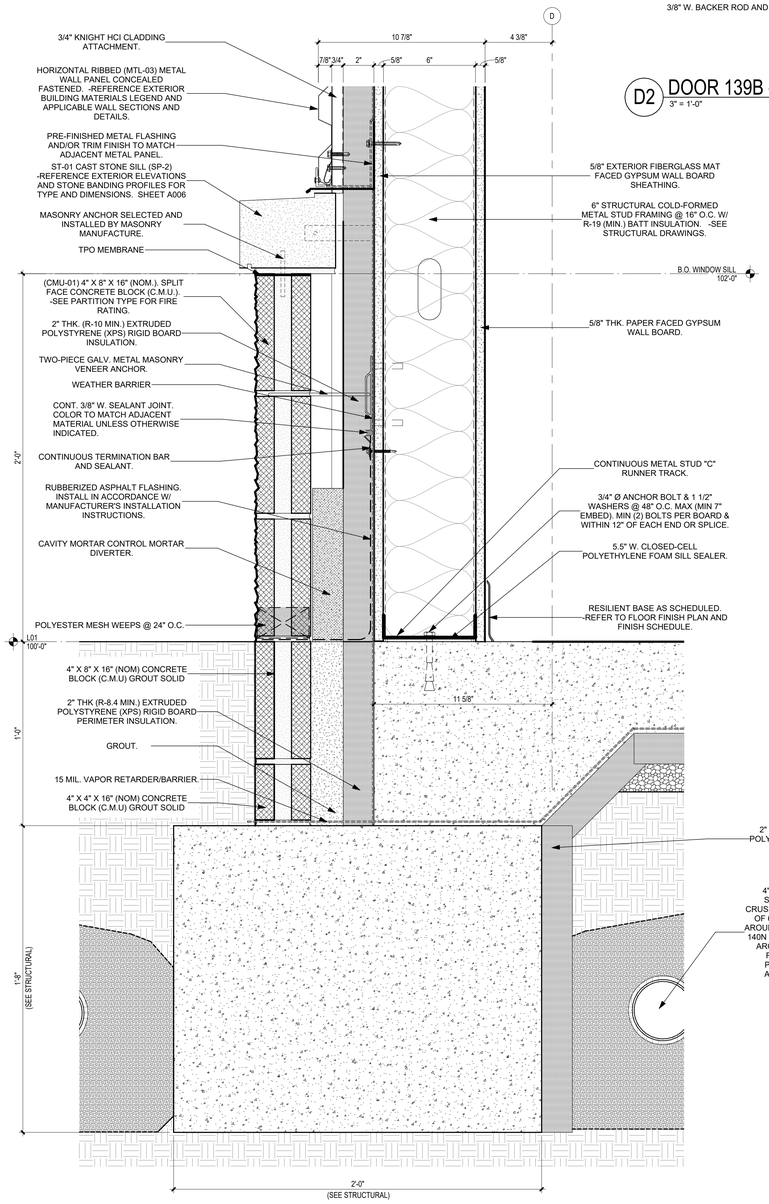
Date
09/16/2025



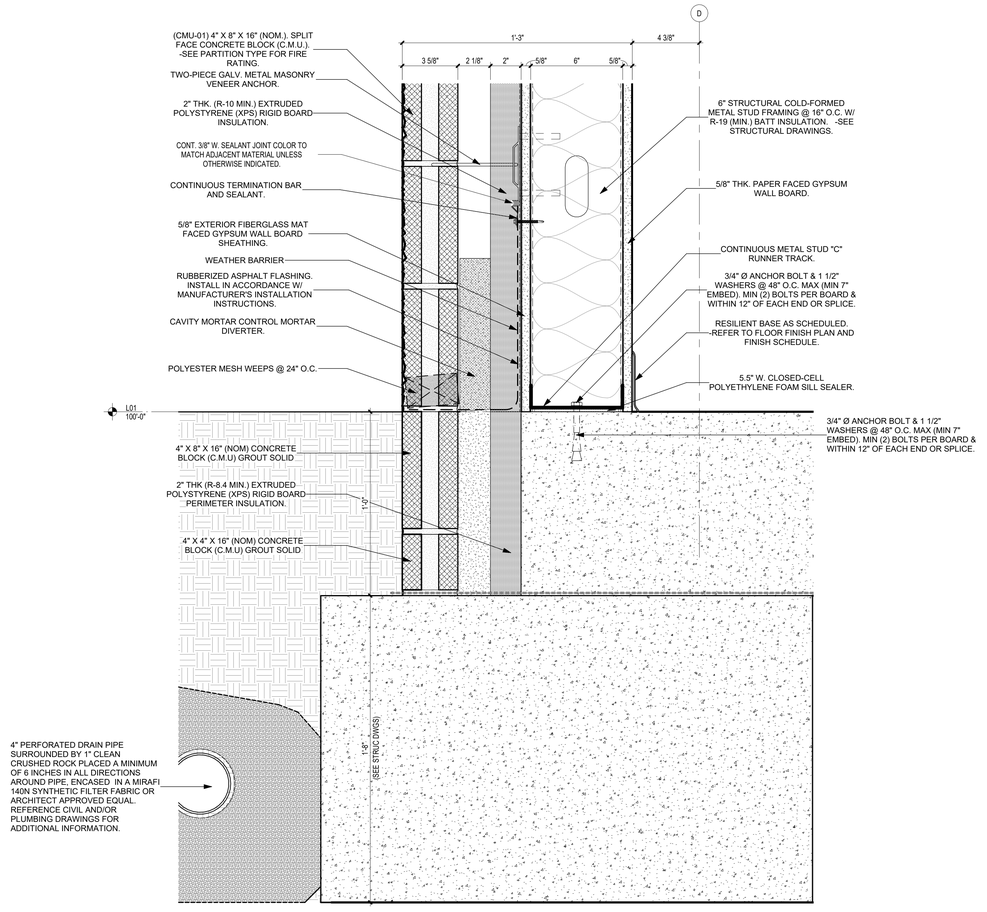
D2 DOOR 139B - TRANSOM HEADER
3" = 1'-0"



D4 WALL TRANSITION AT CANOPY 2
3" = 1'-0"



A1 ENLARGED DETAIL @ CMU TO MTL PANEL TRANSITION
3" = 1'-0"



A4 ENLARGED DETAIL @ CMU WALL
3" = 1'-0"

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No.	Date	Revision

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Project No. 23121

Sheet No. A159

Date 09/16/2025

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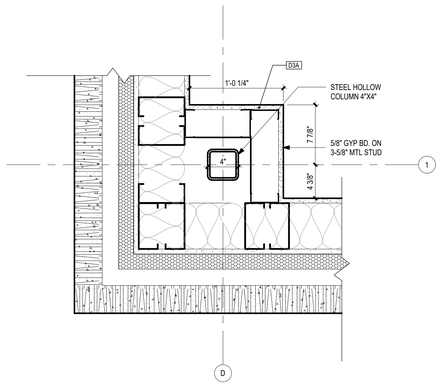
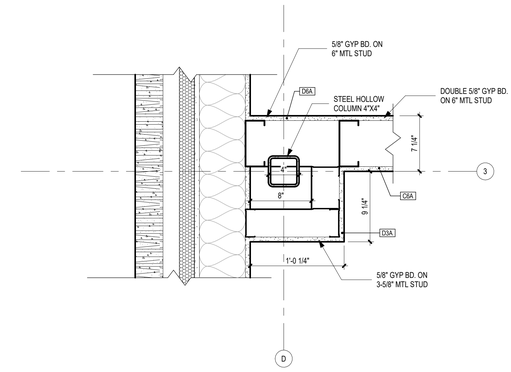
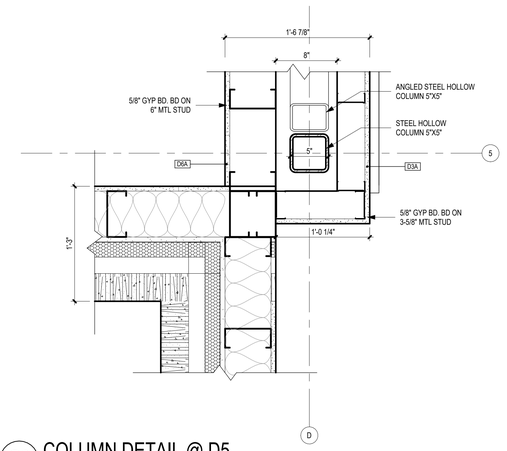


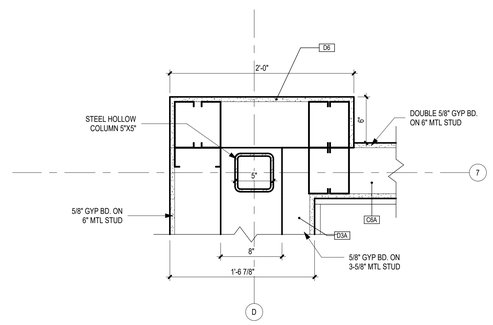
C1 COLUMN DETAIL @ D1
1 1/2" = 1'-0"



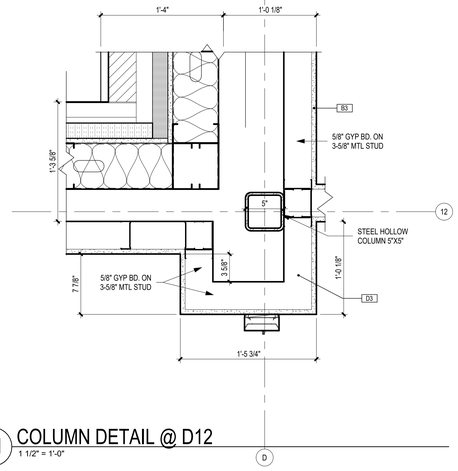
C2 COLUMN DETAIL @ D3
1 1/2" = 1'-0"



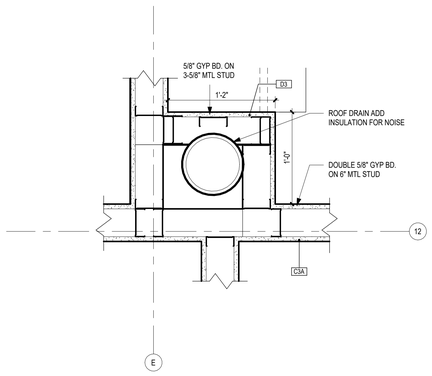
C3 COLUMN DETAIL @ D5
1 1/2" = 1'-0"



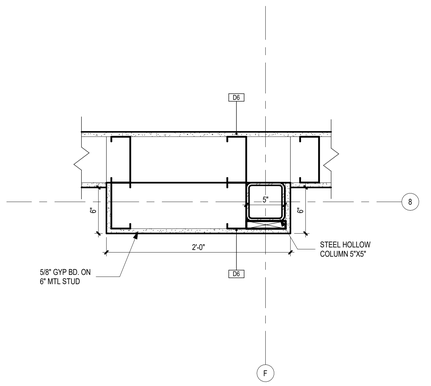
C4 COLUMN DETAIL @ D7
1 1/2" = 1'-0"



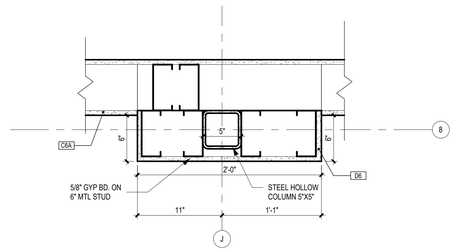
B1 COLUMN DETAIL @ D12
1 1/2" = 1'-0"



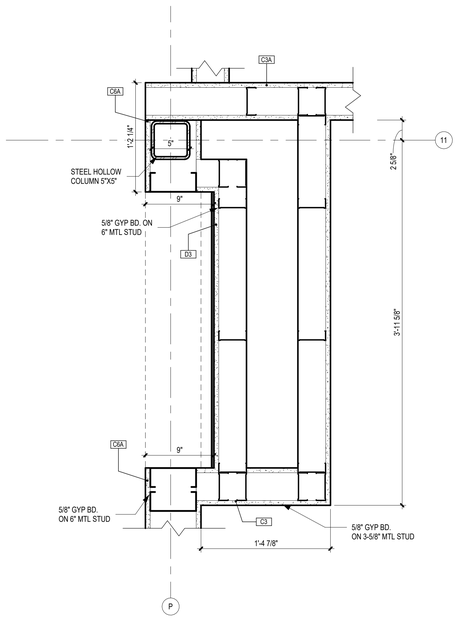
B2 COLUMMN DETAIL @ E12
1 1/2" = 1'-0"



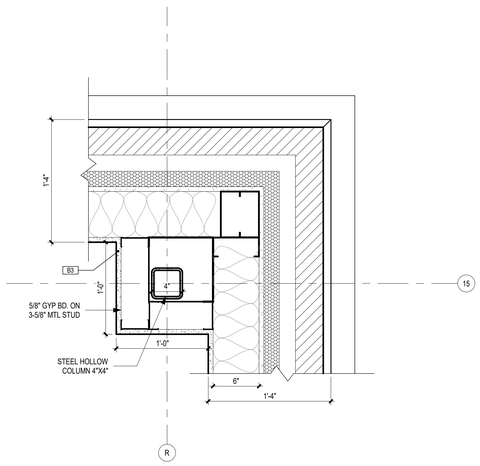
B3 COLUMN DETAIL @ F8
1 1/2" = 1'-0"



B4 COLUMN DETAIL @ J8
1 1/2" = 1'-0"



A1 COLUMN DETAIL @ P11
1 1/2" = 1'-0"



A2 COLUMN DETAIL @ R15
1 1/2" = 1'-0"

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No.	Date	Revision

COLUMN DETAILS

Project No.
23121

Sheet No.
A160

Date
09/16/2025

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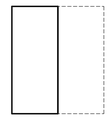
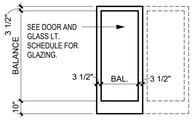


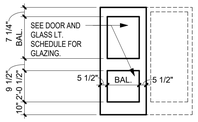
F

FLUSH S.C. WD. OR H.M. DOOR.
-SEE DOOR SCHEDULE.



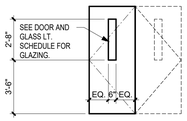
FG3

ALUM. MED. STILE DOOR W/ TEMP. GL.
LT. -SEE DOOR SCHEDULE.



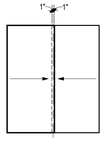
FG4

ALUM. WIDE. STILE DOOR W/ TEMP. GL.
LT. -SEE DOOR SCHEDULE.



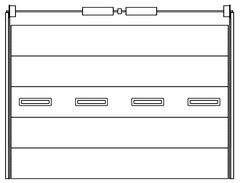
NV

FLUSH S.C. WD. OR H.M. DOOR W/ GL.
LT. -SEE DOOR SCHEDULE.



CL

FLUSH S.C. WD. BI-PASS SLIDER
-SEE DOOR SCHEDULE.



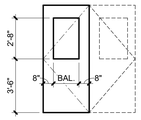
OH 1

OVERHEAD SECTIONAL DOOR
1 ROW LITES
-SEE DOOR SCHEDULE.



CS

COUNTER SHUTTER



G

FLUSH S.C. WD. OR H.M. DOOR W/ TEMP. GL.
LT. -SEE DOOR SCHEDULE.

NOTE:

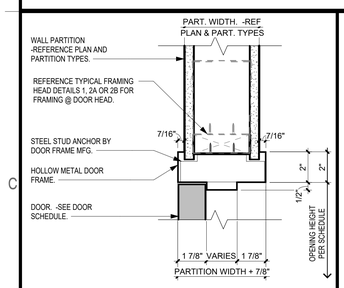
1. SOME DOOR TYPES MAY NOT BE USED ON THIS PARTICULAR PROJECT.
2. DOORS TO BE 1 3/4" THK. UNLESS OTHERWISE NOTED ON DOOR SCHEDULE.
3. REFER TO DOOR SCHEDULE FOR GLASS TYPE AND THICKNESS.

D1 DOOR TYPES ELEVATIONS

1/4" = 1'-0"

DOOR SCHEDULE

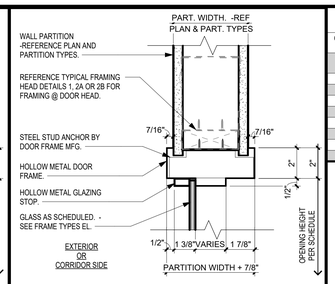
MARK	PAIR	WIDTH	HEIGHT	THICK	FRAME PROPERTIES					DOOR PROPERTIES				Door Fire Rating	HARDWARE GROUP	COMMENTS
					FRAME TYPE	FRAME MATERIAL	FRAME FINISH	SIDELIGHT GLAZING	HEAD	JAMB	TYPE	DOOR MATERIAL	DOOR FINISH	DOOR GLAZING			
100	PR	3'-0"	7'-0"	1 3/4"	SF1	ALUM	CLR. ANOD.	-	D1/A163	C4/A163	-FG3-	ALUM	CLR. ANOD.	G6	-	HQ 2.0	
101	PR	3'-0"	7'-0"	1 3/4"	SF2	ALUM	CLR. ANOD.	-	D2/A163	C5/A163	-FG3-	ALUM	CLR. ANOD.	G2	-	HQ 6.0	
105	PR	3'-6"	8'-8"	1 3/4"	F01	HM	-	-	C1/A161	B1/A161	-F-	SC WD	-	-	-	HQ 13.0	
105A		3'-0"	7'-0"	1 3/4"	SF6	ALUM	CLR. ANOD.	-	D1/A163	C6/A163	-FG4-	ALUM	CLR. ANOD.	G6	-	HQ 3.0	
106		3'-0"	7'-0"	1 3/4"	F01	HM	-	-	C1/A161	B1/A161	-F-	SC WD	-	-	-	HQ 27.0	
107		3'-0"	7'-0"	1 3/4"	SF13	ALUM	CLR. ANOD.	-	D2/A163	C7,C5/A163	FG3	ALUM	CLR. ANOD.	G2	-	HQ 9.0	
107A		3'-0"	7'-0"	1 3/4"	SF7	ALUM	CLR. ANOD.	-	D1/A163	C6/A163	-FG4-	ALUM	CLR. ANOD.	G6	-	HQ 3.1	
108		3'-0"	7'-0"	1 3/4"	F01	HM	-	-	C1/A161	B1/A161	-F-	SC WD	-	-	-	HQ 27.0	
109		3'-0"	7'-0"	1 3/4"	SF14	ALUM	CLR. ANOD.	-	D2/A163	C7,C5/A163	FG3	ALUM	CLR. ANOD.	G2	-	HQ 9.0	
109A		3'-0"	7'-0"	1 3/4"	SF6	ALUM	CLR. ANOD.	-	D1/A163	C6/A163	-FG4-	ALUM	CLR. ANOD.	G6	-	HQ 3.0	
110		3'-0"	7'-0"	1 3/4"	F01	HM	-	-	C1/A161	B1/A161	-F-	SC WD	-	-	-	HQ 21.0	
111		3'-0"	7'-0"	1 3/4"	SF11	ALUM	CLR. ANOD.	-	D2/A163	C7,C5/A163	-FG3-	ALUM	CLR. ANOD.	G2	-	HQ 5.0	
111A		3'-0"	7'-0"	1 3/4"	F01	HM	-	-	C1/A161	B1/A161	-F-	SC WD	-	-	-	HQ 19.0	
112		3'-0"	7'-0"	1 3/4"	SF12	ALUM	CLR. ANOD.	-	D2/A163	C7,C5/A163	FG3	ALUM	CLR. ANOD.	G2	-	HQ 8.0	
114		3'-0"	7'-0"	1 3/4"	F01	HM	-	-	C1/A161	B1/A161	-F-	SC WD	-	-	-	HQ 24.0	
115		3'-0"	7'-0"	1 3/4"	F01	HM	-	-	C1/A161	B1/A161	-F-	SC WD	-	-	-	HQ 24.0	
117		3'-0"	7'-0"	1 3/4"	F01	HM	-	-	C1/A161	B1/A161	-F-	SC WD	-	-	-	HQ 14.0	
117A		3'-0"	7'-0"	1 3/4"	F01	HM	-	-	C1/A161	B1/A161	-F-	SC WD	-	-	-	HQ 14.0	
117B		8'-0"	5'-10"	1 1/4"			-	-	A6/A161	B5/A161			-	-	-	HQ 26.0	
120		3'-0"	7'-0"	1 3/4"	F01	HM	-	-	C1/A161	B1/A161	-F-	SC WD	-	-	-	HQ 23.0	
121		3'-0"	7'-0"	1 3/4"	F01	HM	-	-	C1/A161	B1/A161	-F-	SC WD	-	-	-	HQ 23.0	
122		3'-0"	7'-0"	1 3/4"	F01	HM	-	-	C1/A161	B1/A161	-F-	SC WD	-	-	-	HQ 11.0	
124		3'-0"	7'-0"	1 3/4"	F01	HM	-	-	C1/A161	B1/A161	-F-	SC WD	-	-	-	HQ 16.0	
125		3'-0"	7'-0"	1 3/4"	F02	HM	-	G2	C1/A161	B2/A161	-F-	SC WD	-	-	-	HQ 14.0	
125A		6'-0"	7'-0"	1 3/4"	NONE	HM	-	-			-CL-	SC WD	-	-	-	HQ 25.0	
126		3'-0"	7'-0"	1 3/4"	F02	HM	-	G2	C1/A161	B2/A161	-F-	SC WD	-	-	-	HQ 16.0	
126A		6'-0"	7'-0"	1 3/4"	NONE	HM	-	-			-CL-	SC WD	-	-	-	HQ 25.0	
127		3'-0"	7'-0"	1 3/4"	F02	HM	-	G2	C1/A161	B2/A161	-F-	SC WD	-	-	-	HQ 16.0	
127A		6'-0"	7'-0"	1 3/4"	NONE	HM	-	-			-CL-	SC WD	-	-	-	HQ 25.0	
128		3'-0"	7'-0"	1 3/4"	F02	HM	-	G2	C1/A161	B2/A161	-F-	SC WD	-	-	-	HQ 16.0	
128A		6'-0"	7'-0"	1 3/4"	NONE	HM	-	-			-CL-	SC WD	-	-	-	HQ 25.0	
129		3'-0"	7'-0"	1 3/4"	F02	HM	-	-	C1/A161	B1/A161	-F-	SC WD	-	-	-	HQ 28.0	
130		3'-0"	7'-0"	1 3/4"	F01	HM	-	-	C1/A161	B1/A161	-F-	SC WD	-	-	-	HQ 14.0	
131		3'-0"	7'-0"	1 3/4"	F02	HM	-	G2	C1/A161	B2/A161	-F-	SC WD	-	-	-	HQ 16.0	
131A		6'-0"	7'-0"	1 3/4"	NONE	HM	-	-			-CL-	SC WD	-	-	-	HQ 25.0	
132		3'-0"	7'-0"	1 3/4"	F02	HM	-	G2	C1/A161	B2/A161	-F-	SC WD	-	-	-	HQ 16.0	
132A		6'-0"	7'-0"	1 3/4"	NONE	HM	-	-			-CL-	SC WD	-	-	-	HQ 25.0	
133A		3'-0"	7'-0"	1 3/4"	SF10	ALUM	CLR. ANOD.	-	D2/A603	C7,C5/A603	FG3	ALUM	CLR. ANOD.	G2	-	HQ 7.0	
134		3'-0"	7'-0"	1 3/4"	F02	HM	-	G2	C1/A161	B2/A161	-F-	SC WD	-	-	-	HQ 16.0	
134A		6'-0"	7'-0"	1 3/4"	NONE	HM	-	-			-CL-	SC WD	-	-	-	HQ 25.0	
135		3'-0"	7'-0"	1 3/4"	F02	HM	-	G2	C1/A161	B2/A161	-F-	SC WD	-	-	-	HQ 14.0	
136	PR	3'-0"	7'-0"	1 3/4"	SF9	ALUM	CLR. ANOD.	-	D2/A163	C5/A163	-FG4-	ALUM	CLR. ANOD.	G2	-	HQ 10.0	
136A	PR	3'-0"	7'-0"	1 3/4"	SF8	ALUM	CLR. ANOD.	-	D1/A163	C4/A163	-FG4-	ALUM	CLR. ANOD.	G6	-	HQ 1.0	
137		3'-0"	7'-0"	1 3/4"	F01	HM	-	-	C1/A161	B1/A161	-F-	HM	-	-	-	HQ 14.0	
139		3'-0"	7'-0"	1 3/4"	F01	HM	-	-	C1/A161	B1/A161	-G-	HM	-	-	-	HQ 20.0	
139A		3'-0"	7'-0"	1 3/4"	SF7	ALUM	CLR. ANOD.		D1/A163	C6/A163	-FG4-	ALUM	CLR. ANOD.	G6	-	HQ 3.0	
139B		3'-0"	7'-0"	1 3/4"	SF7	ALUM	CLR. ANOD.		D1/A163	C6/A163	-FG4-	ALUM	CLR. ANOD.	G6	-	HQ 3.0	
139C		14'-0"	10'-0"	2"	-	-	-	-				MTL	PREFIN	G6	-	HQ 26.0	
140		3'-0"	7'-0"	1 3/4"	F01	HM	-	-	C1/A161	B1/A161	-F-	HM	-	-	-	HQ 22.0	
141		3'-0"	7'-0"	1 3/4"	F01	HM	-	-	C1/A161	B1/A161	-F-	HM	-	-	-	HQ 22.0	
142		3'-0"	7'-0"	1 3/4"	F01	HM	-	-	C1/A161	B1/A161	-F-	HM	-	-	-	HQ 12.0	
143		3'-0"	7'-0"	1 3/4"	F01	HM	-	-	C1/A161	B1/A161	-F-	HM	-	-	-	HQ 18.0	
144		3'-0"	7'-0"	1 3/4"	F01	HM	-	-	C1/A161	B1/A161	-F-	HM	-	-	-	HQ 15.0	
145	PR	3'-6"	7'-0"	1 3/4"	F01-M	HM	_PAINT_CHARCOAL	-	C1/A161	B6/A161	-F-	HM	_PAINT_CHARCOAL	-	-	HQ 4.0	



C1 TYICAL HOLLOW METAL FRAME DOOR HEAD DETAIL

3" = 1'-0"

08.11.13.01_LG HM DOOR HEAD DETAIL



C2 TYPICAL HOLLOW METAL FRAME GLAZED HEAD

3" = 1'-0"

08.11.13.01_LG HM GLAZED HEAD DETAIL

GLAZING LITE SCHEDULE

GLAZING TYPE	DESCRIPTION
-NOTE:	NOT ALL GLASS USED IN PROJECT. REFER TO DOOR SCHEDULE & WINDOW FRAME TYPES.
G1	1/4" CLEAR GLAZING
G2	1/4" TEMPERED CLEAR GLAZING
G3	1/2" TEMPERED CLEAR GLAZING
G4	3/16" PREMIUM GRADE FIRE RATED GLASS CERAMIC SAFETY GLAZING
G5	1" INSULATED GLAZING
G6	1" TEMPERED INSULATED GLAZING
G7	1" INSULATED SPANDREL GLAZING
G8	1" INSULATED TEMPERED SPANDREL GLAZING

B1 TYPICAL HOLLOW METAL FRAME DOOR JAMB DETAIL

3" = 1'-0"

08.11.13.01_LG HM DOOR JAMB DETAIL

B2 TYP. HOLLOW METAL FRAME DOOR JAMB DET. W/ SIDE LT.

3" = 1'-0"

08.11.13.01_LG HM DOOR JAMB DET W SIDELITE



B3 TYICAL HOLLOW METAL FRAME GLAZED JAMB DETAIL

3" = 1'-0"

08.11.13.01_LG HM GLAZED JAMB DETAIL

B4 TYP. COILING DOOR SILL DTL

3" = 1'-0"

B5 ROLLING COUNTER DOOR JAMB DTL

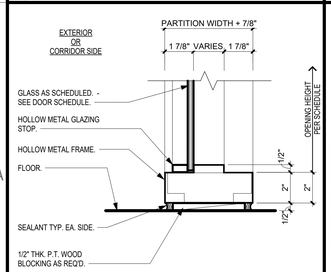
3" = 1'-0"

08.33.11_ROLLING COUNTER DOOR JAMB DETAIL

B6 TYPICAL HOLLOW METAL FRAME DOOR HEAD DETAIL

3" = 1'-0"

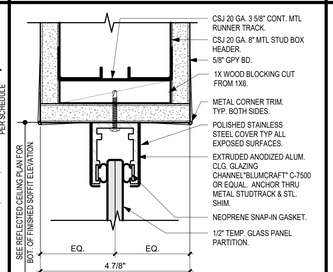
08.11.13.02_LG HM DOOR HEAD DETAIL



A1 TYPICAL HOLLOW METAL FRAME GLAZED SILL DETAIL

3" = 1'-0"

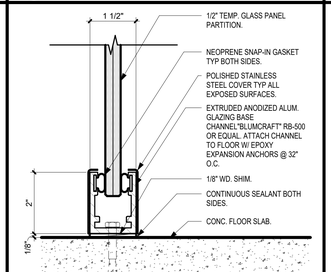
08.11.13.01_LG HM SILL GLAZED DETAIL



A2 TYPICAL GLASS PARTITION PANEL HEAD DETAIL

HALF SCALE

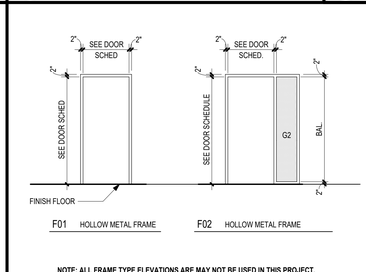
08 41 26 01 GLASS PNL HEAD DET



A3 TYPICAL GLASS PARTITION PANEL SILL DETAIL

HALF SCALE

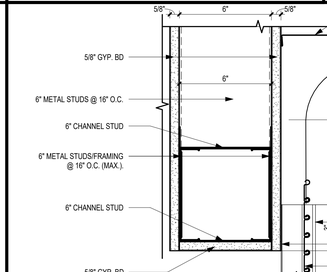
08 41 26 01 GLASS PNL SILL DET



NOTE: ALL FRAME TYPE ELEVATIONS ARE MAY NOT BE USED IN THIS PROJECT.

A4 HOLLOW METAL FRAME TYPES ELEVATIONS

1/4" = 1'-0"



A6 ROLLING COUNTER DOOR HEAD DTL

3" = 1'-0"

08.33.11_ROLLING COUNTER DOOR HEAD DETAIL

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Proposed:
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ST. PETERS, MO 63376
380/340 ECOLOGY DRIVE

No.	Date	Revision

DOOR SCHEDULE & DETAILS

Project No. 23121

Sheet No. A161

Date 09/16/2025

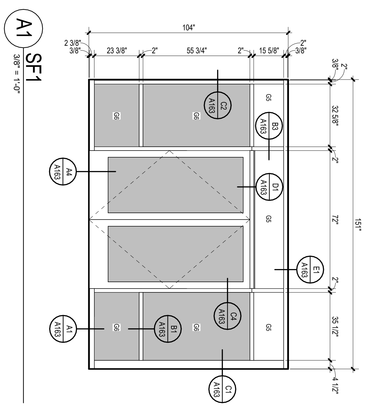
9/13/2025 7:30:01 PM
C:\Users\rickefe\Documents\23121 Central Co Fire Training Facility_Fire & Rescue Headquarters_R23_rickefe.rvt

SCALE: 1/16" = 1'-0" | SCALE: 3/32" = 1'-0" | SCALE: 1/8" = 1'-0" | SCALE: 1/4" = 1'-0" | SCALE: 3/8" = 1'-0" | SCALE: 1/2" = 1'-0" | SCALE: 3/4" = 1'-0" | SCALE: 1" = 1'-0" | SCALE: 1 1/2" = 1'-0" | SCALE: 3" = 1'-0"

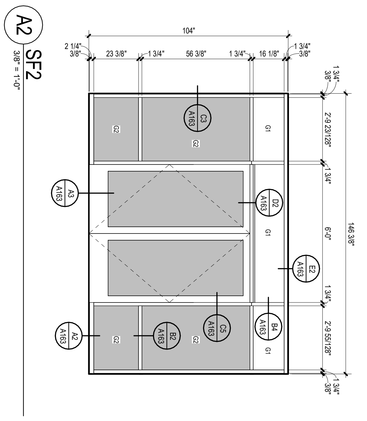
9/13/2025 7:30:04 PM

C:\Users\iricklefs\Documents\23121 Central Co Fire Training Facility_Fire & Rescue Headquarters_R23_iricklefs.rvt

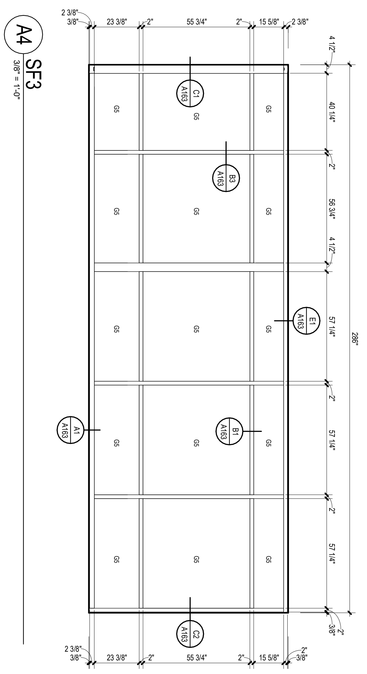
A1 SF1 3/8" = 1'-0"



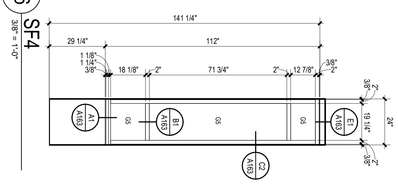
A2 SF2 3/8" = 1'-0"



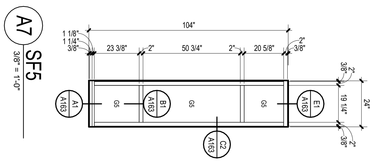
A4 SF3 3/8" = 1'-0"



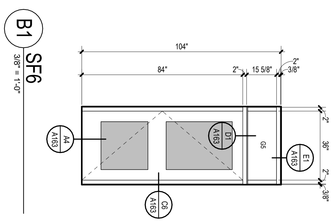
A6 SF4 3/8" = 1'-0"



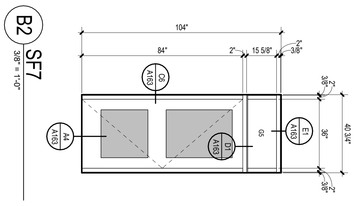
A7 SF5 3/8" = 1'-0"



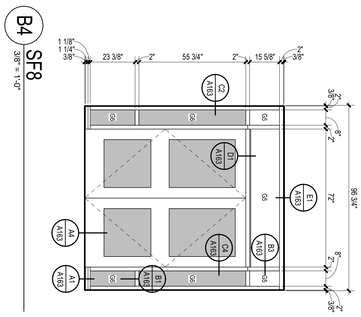
B1 SF6 3/8" = 1'-0"



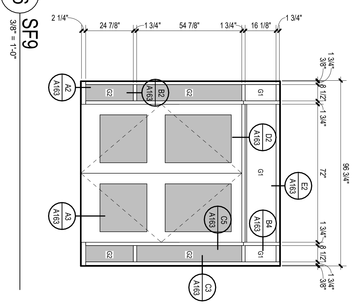
B2 SF7 3/8" = 1'-0"



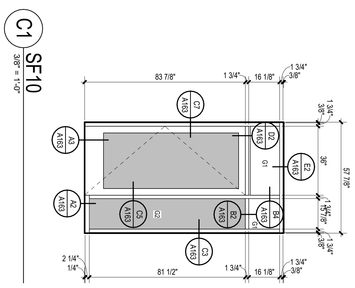
B4 SF8 3/8" = 1'-0"



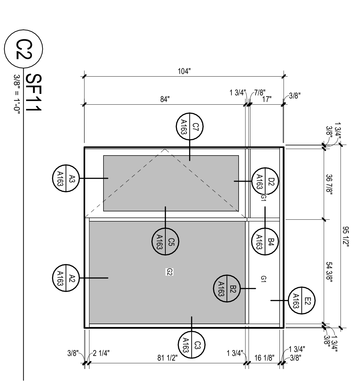
B6 SF9 3/8" = 1'-0"



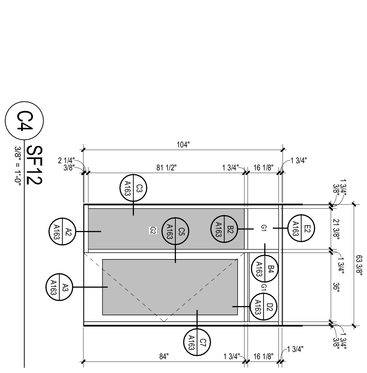
C1 SF10 3/8" = 1'-0"



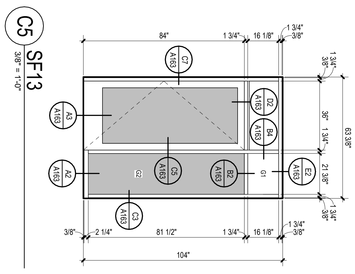
C2 SF11 3/8" = 1'-0"



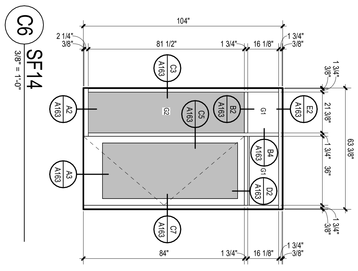
C4 SF12 3/8" = 1'-0"



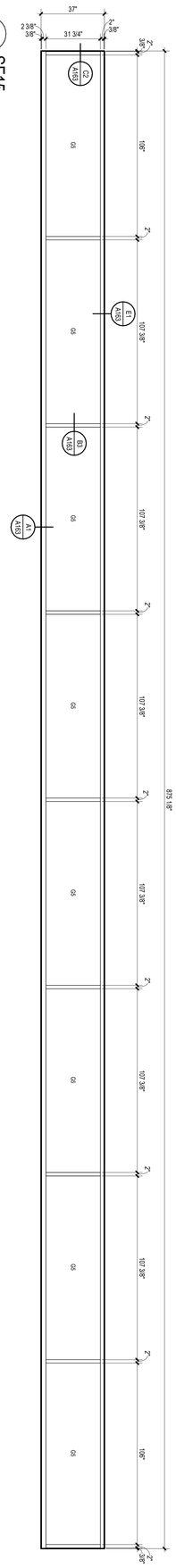
C5 SF13 3/8" = 1'-0"



C6 SF14 3/8" = 1'-0"



E1 SF15 3/8" = 1'-0"



No.	Date	Revision

Sheet No. A162

Project No. 23121

Date 09/16/2025

STOREFRONT ELEVATIONS

Proposed:

CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE

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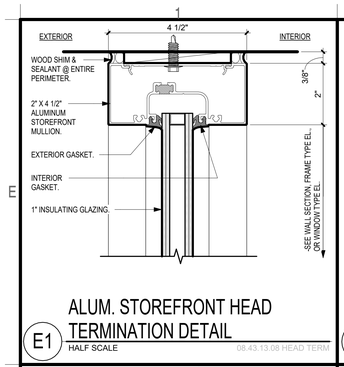
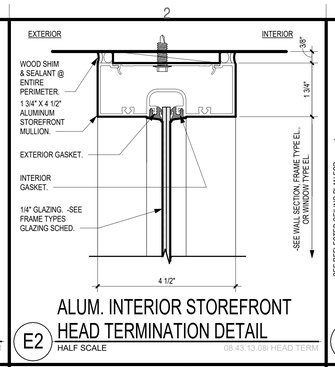


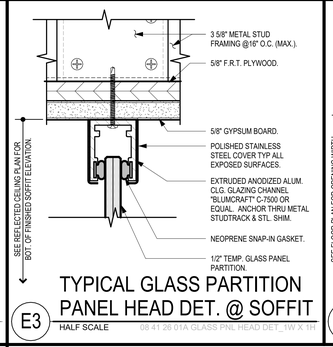
ALUM. STOREFRONT HEAD TERMINATION DETAIL

E1 HALF SCALE 08.43.13.08 HEAD TERM



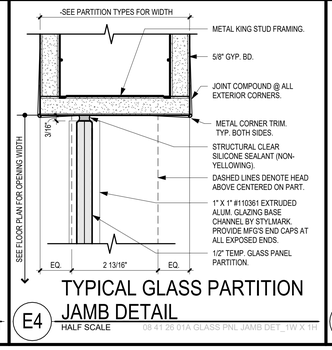
ALUM. INTERIOR STOREFRONT HEAD TERMINATION DETAIL

E2 HALF SCALE 08.43.13.08 HEAD TERM



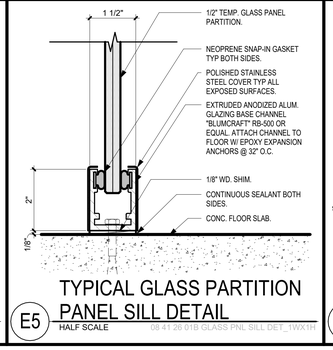
TYPICAL GLASS PARTITION PANEL HEAD DET. @ SOFFIT

E3 HALF SCALE 08.41.26.01A GLASS PNL HEAD DET._1W X 1H



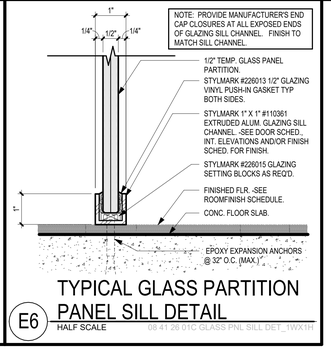
TYPICAL GLASS PARTITION JAMB DETAIL

E4 HALF SCALE 08.41.26.01A GLASS PNL JAMB DET._1W X 1H



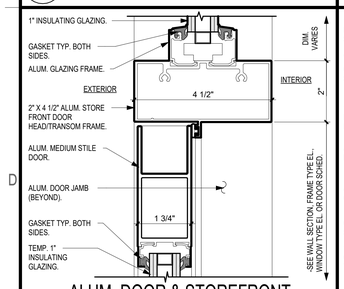
TYPICAL GLASS PARTITION PANEL SILL DETAIL

E5 HALF SCALE 08.41.26.01B GLASS PNL SILL DET_1WX1H



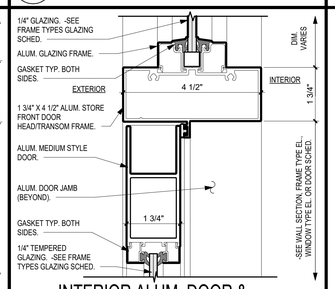
TYPICAL GLASS PARTITION PANEL SILL DETAIL

E6 HALF SCALE 08.41.26.01C GLASS PNL SILL DET._1WX1H



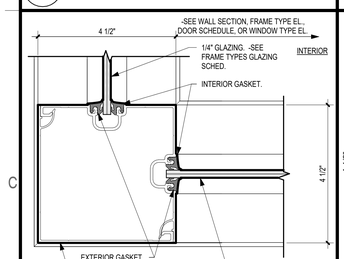
ALUM. DOOR & STOREFRONT TRANSOM DETAIL

D1 HALF SCALE 08.43.13.06A STOREFRONT INSUL DOOR TRANS DET



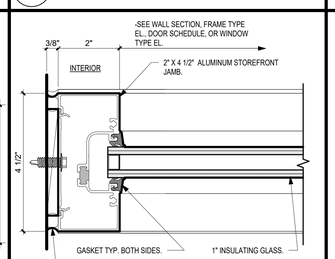
INTERIOR ALUM. DOOR & STOREFRONT TRANSOM DETAIL

D2 HALF SCALE 08.43.13.06I STOREFRONT TEMP DOOR TRANS DET



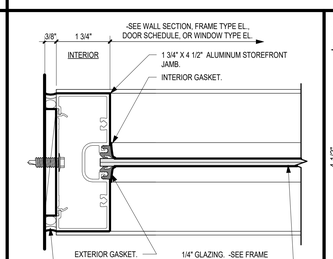
ALUM. INT. STOREFRONT CORNER JAMB DET.

C1 HALF SCALE 08.43.13.14I OUTSIDE CORNER JAMB DET



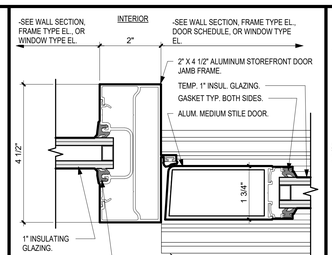
ALUM. STOREFRONT JAMB DET. @ TERMINATING WALL COND.

C2 HALF SCALE 08.43.13.08 JAMB TERM



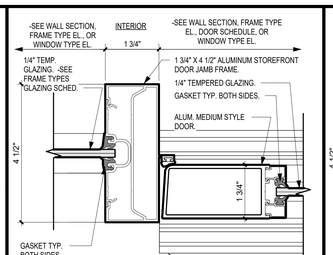
ALUM. INT. STOREFRONT JAMB DET. @ TERMINATING WALL COND

C3 HALF SCALE 08.43.13.08I JAMB TERM



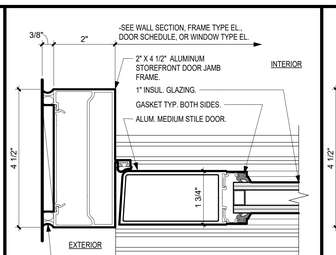
ALUM. STOREFRONT DOOR JAMB DETAIL @ SIDE LITE

C4 HALF SCALE 08.43.13.04A STOREFRONT INSUL DOOR JAMB DET



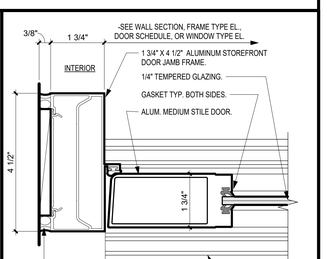
INTERIOR ALUM. STOREFRONT DOOR JAMB DETAIL @ SIDE LITE

C5 HALF SCALE 08.43.13.04I STOREFRONT TEMP DOOR JAMB DET



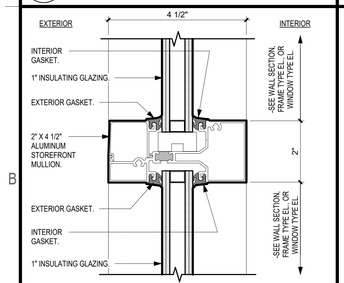
ALUM. STOREFRONT DOOR JAMB DETAIL @ WALL

C6 HALF SCALE 08.43.13.05A STOREFRONT TEMP DOOR JAMB DET



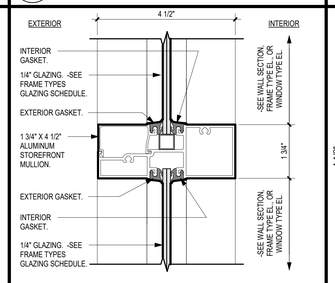
INT. ALUM. STOREFRONT DOOR JAMB DETAIL @ WALL

C7 HALF SCALE 08.43.13.05I STOREFRONT TEMP DOOR JAMB DET



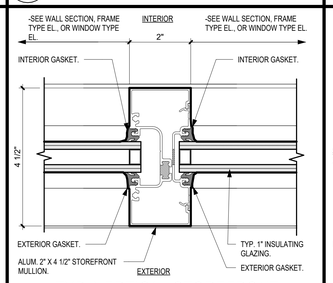
TYP. HORIZONTAL STOREFRONT MULLION DETAIL

B1 HALF SCALE 08.43.13.02 TYP HOR STOREFRONT MULLION



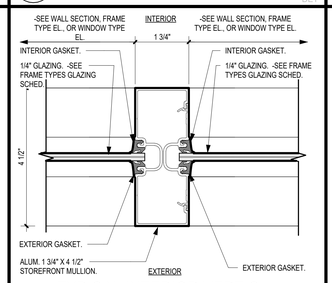
TYP. INTERIOR HORIZONTAL STOREFRONT MULLION DETAIL

B2 HALF SCALE 08.43.13.02I TYP HOR STOREFRONT MULLION



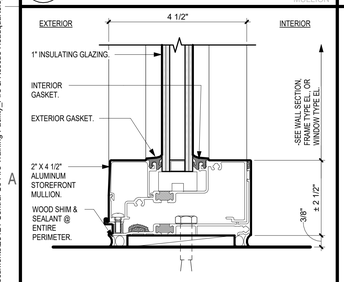
TYP. VERTICAL STOREFRONT MULLION DETAIL

B3 HALF SCALE 08.43.13.03 TYP VERT STOREFRONT MULLION



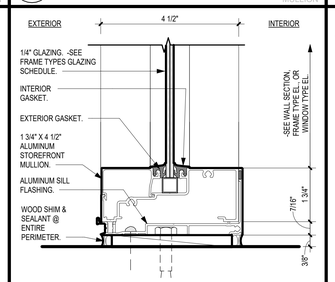
TYPICAL INTERIOR VERTICAL STOREFRONT MULLION DETAIL

B4 HALF SCALE 08.43.13.03ITYP VERT STOREFRONT MULLION



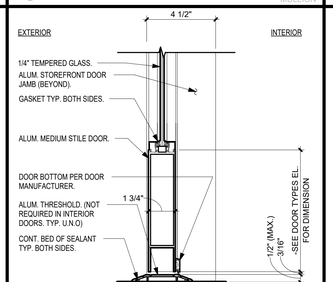
ALUM. STOREFRONT SILL TERMINATION DETAIL

A1 HALF SCALE 08.43.13.10 SILL TERM



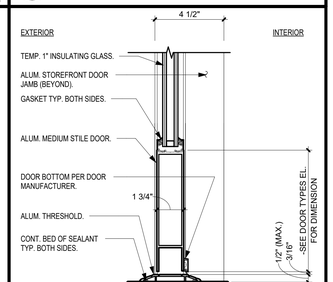
INTERIOR ALUM. STOREFRONT SILL TERMINATION DETAIL

A2 HALF SCALE 08.43.13.10I SILL TERM



ALUM. STOREFRONT DOOR SILL DETAIL W/ TEMPERED GLAZING

3" = 1'-0" A3 08.43.13.01A DOOR SILL TEMPERED GLAZING



ALUM. STOREFRONT DOOR SILL DETAIL W/ INSULATED GLAZING

3" = 1'-0" A4 08.43.13.01 DOOR SILL INSULATED GLAZING

SCALE: 3" = 1'-0" | SCALE: 1 1/2" = 1'-0" | SCALE: 1" = 1'-0" | SCALE: 3/4" = 1'-0" | SCALE: 1/2" = 1'-0" | SCALE: 3/8" = 1'-0" | SCALE: 1/4" = 1'-0" | SCALE: 1/8" = 1'-0" | SCALE: 3/32" = 1'-0" | SCALE: 1/16" = 1'-0"

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C:\Users\rjcske\Documents\23121 Central Co Fire Training Facility_Fire & Rescue Headquarters_R23_jrcske5.rvt

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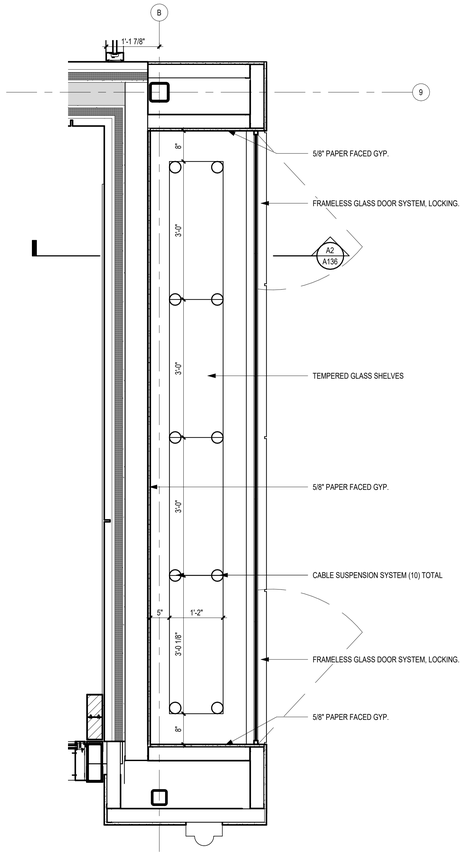
No.	Date	Revision

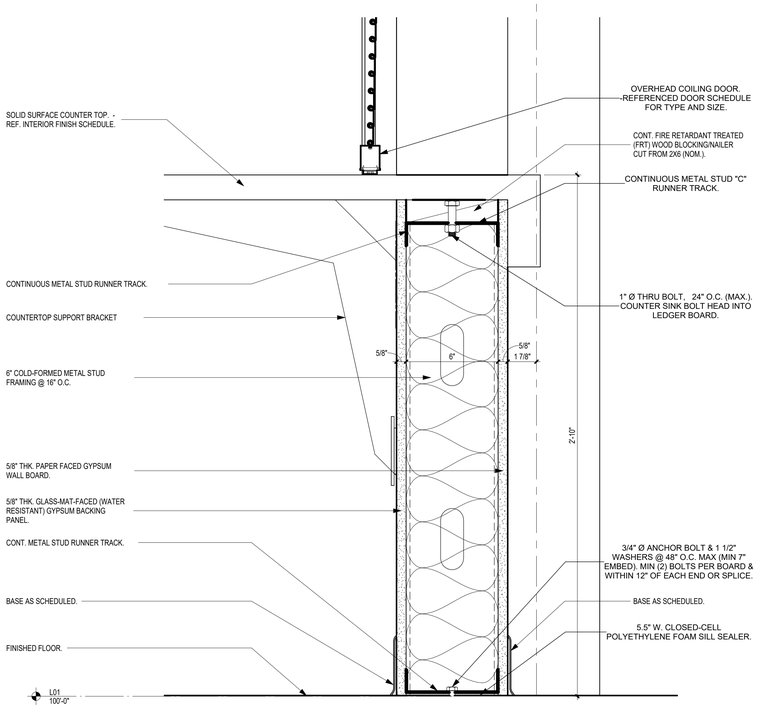
STOREFRONT DETAILS

Project No. 23121
Sheet No. A163
Date 09/16/2025

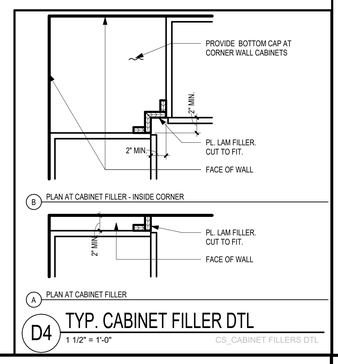
SEE A002 FOR GENERAL NOTES



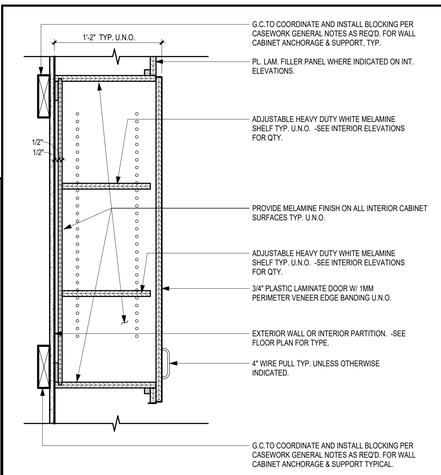
C1 LOBBY DISPLAY CASE ENLARGED PLAN
3/4" = 1'-0"



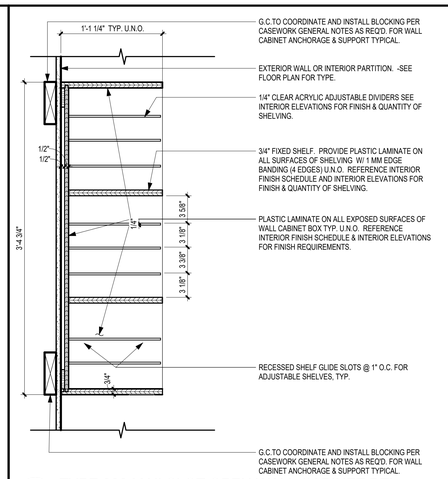
A1 COILING DOOR SILL @ KITCHEN
3" = 1'-0"



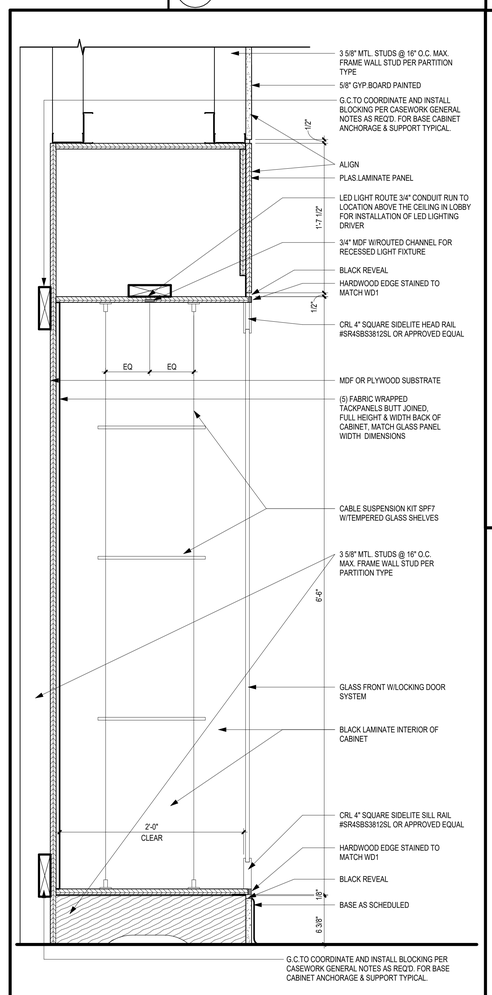
D4 TYP. CABINET FILLER DTL
1 1/2" = 1'-0"
CS_CABINET FILLERS DTL



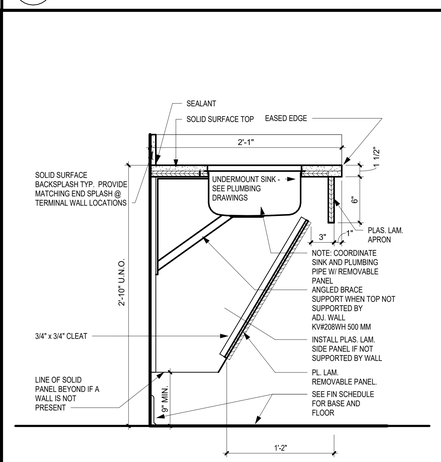
D5 TYPE 301 & 302 WALL CABINET DTL
1 1/2" = 1'-0"
CS_301 302 WALL CABINET DTL



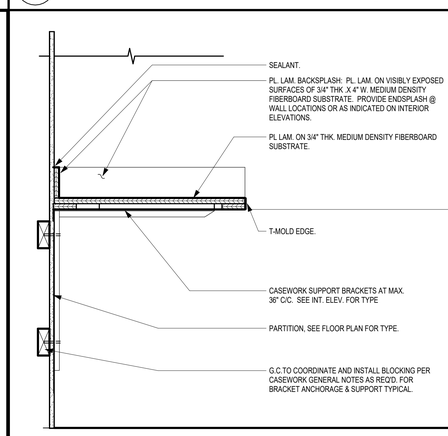
D6 TYPE 300 MAILSLOT OPEN WALL CABINET DTL
1 1/2" = 1'-0"
CS_300 WALL CABINET DTL



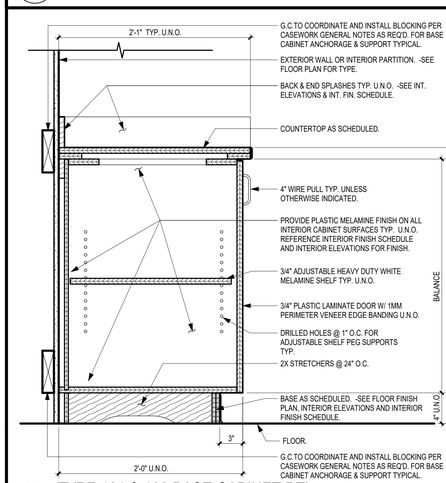
A3 L01 - LOBBY DISPLAY CASE SECTION
1 1/2" = 1'-0"



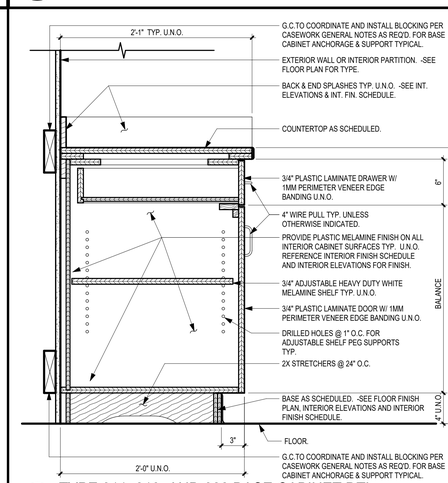
B5 TYPE 102 ADA VANITY CABINET DETAIL
1 1/2" = 1'-0"
101.102 BASE CABINET DETAIL_1.5W X 1.5H



B6 TYP. WALL MOUNTED COUNTERTOP
1 1/2" = 1'-0"
CS_TYP. WALL MTD. COUNTERTOP DTL



A5 TYPE 101 & 102 BASE CABINET DTL
1 1/2" = 1'-0"
CS_101 102 BASE CABINET DTL



A6 TYPE 211, 212, AND 222 BASE CABINET DTL
1 1/2" = 1'-0"
CS_211 212 222 BASE CABINET DTL

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360/340 ECOLOGY DRIVE
ST. PETERS, MO 63376

No.	Date	Revision

CASEWORK DETAILS

Project No.
23121

Sheet No.
A164

Date
09/16/2025

9/13/2025 7:30:07 PM
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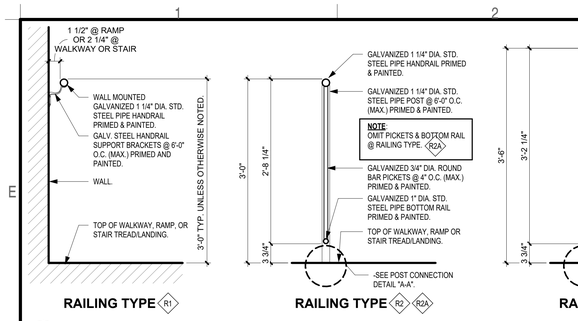
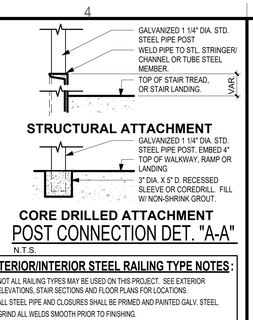
SCALE: 3" = 1'-0"
SCALE: 1 1/2" = 1'-0"
SCALE: 1" = 1'-0"
SCALE: 3/4" = 1'-0"
SCALE: 1/2" = 1'-0"
SCALE: 3/8" = 1'-0"
SCALE: 1/4" = 1'-0"
SCALE: 1/8" = 1'-0"
SCALE: 3/32" = 1'-0"
SCALE: 1/16" = 1'-0"



E1 TYPICAL PIPE RAILING TYPES DETAILS
1" = 1'-0"

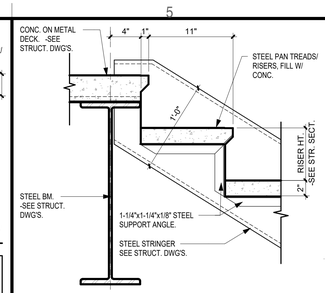


POST CONNECTION DET. "A-A"
N.T.S.

EXTERIOR/INTERIOR STEEL RAILING TYPE NOTES:

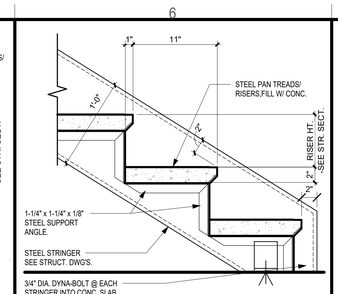
1. NOT ALL RAILING TYPES MAY BE USED ON THIS PROJECT. SEE EXTERIOR ELEVATIONS, STAIR SECTIONS AND FLOOR PLANS FOR LOCATIONS.
2. ALL STEEL PIPE AND CLOSURES SHALL BE PRIMED AND PAINTED GALV. STEEL.
3. GRIND ALL WELDS SMOOTH PRIOR TO FINISHING.
4. PROVIDE CLOSURES AT ALL EXPOSED ENDS.

05.51.00.01_TYP. PIPE RAILING TYPES DETAILS .4WX18



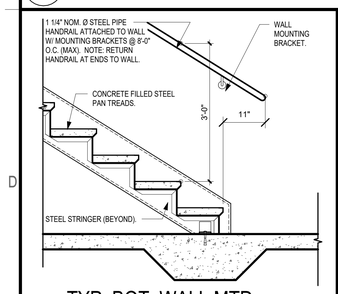
E5 STAIR NOSING TREAD & RISER DETAIL @ LANDING
1 1/2" = 1'-0"

05.51.00.02 STAIR DETAIL



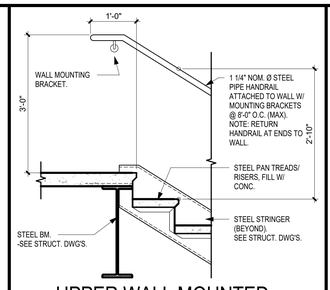
E6 STAIR NOSING DETAIL @ BOTTOM TREAD/RISER
1 1/2" = 1'-0"

05.51.00.01 STAIR DETAIL



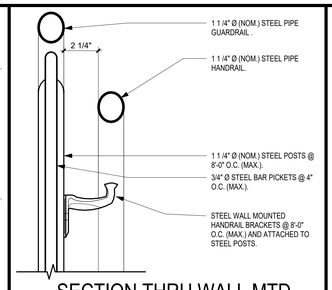
D1 TYP. BOT. WALL MTD. HANDRAIL EXTEN. AT STAIR
3/4" = 1'-0"

05.51.00.03A BOT WALL MTD HR EXTEN

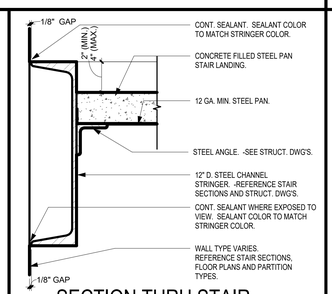


D2 UPPER WALL MOUNTED HANDRAIL EXTENSION DET.
3/4" = 1'-0"

05.51.00.05 UPPER WALL MTD EXTEN

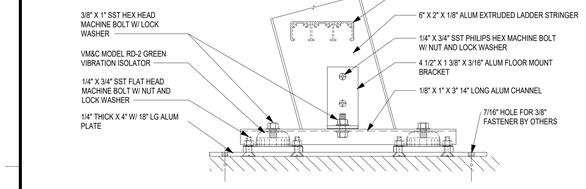


D3 SECTION THRU WALL MTD. HANDRAIL @ MTL STUD PART.
3" = 1'-0"

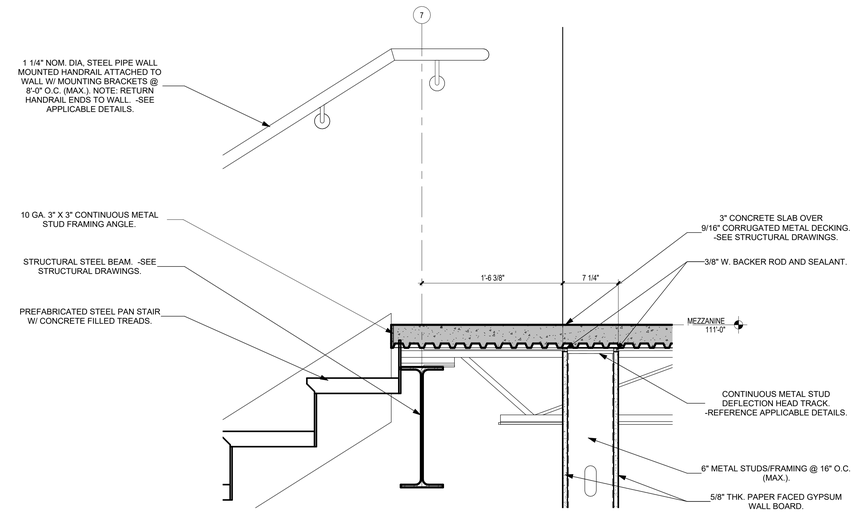


D4 SECTION THRU STAIR STRINGER AT LANDING
3" = 1'-0"

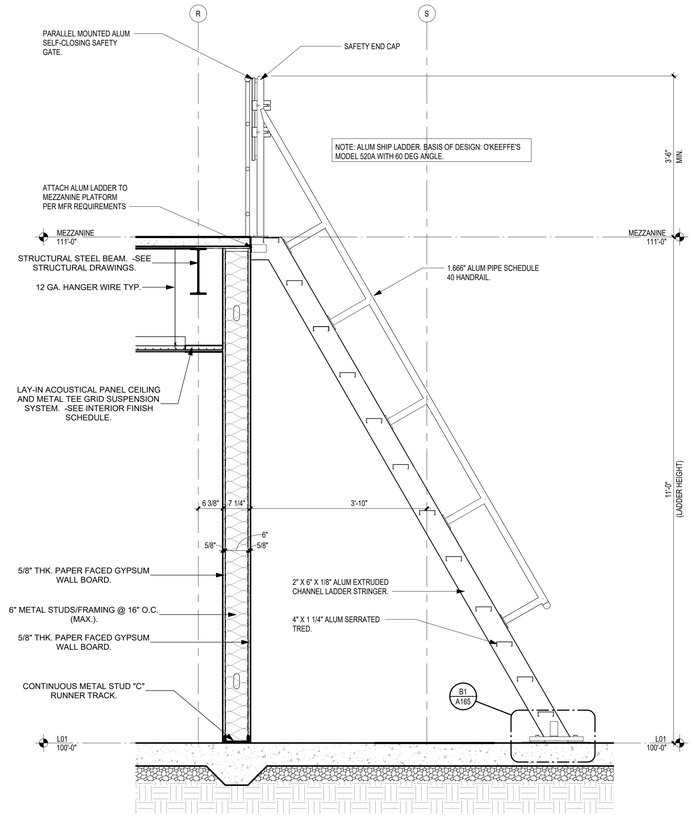
05.51.00.07 STAIR LAND DET.



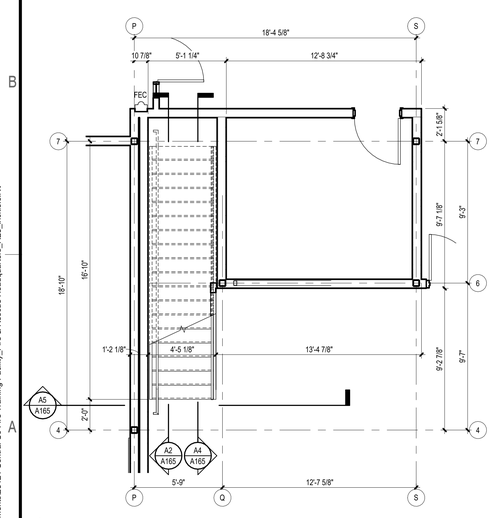
B1 SEISMIC BRACKET DETAIL
3" = 1'-0"



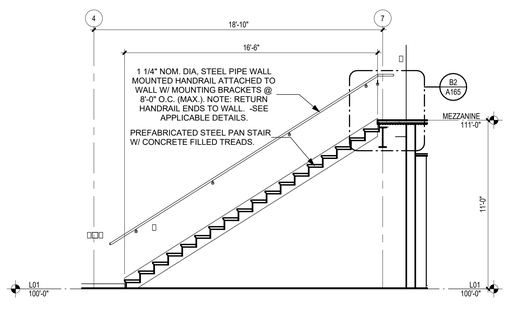
B2 ENLARGED DETAIL @ T.O. STAIR
1 1/2" = 1'-0"



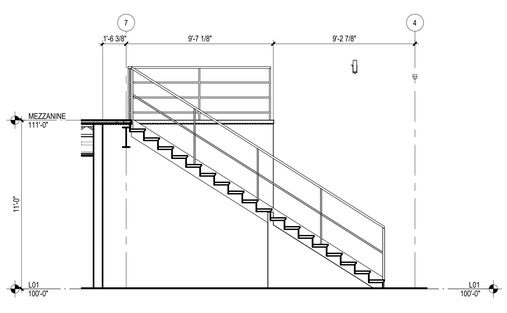
B5 SHIP LADDER DETAIL
3/4" = 1'-0"



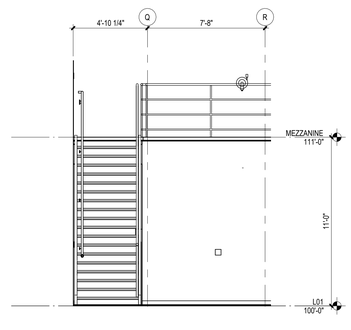
A1 STAIR PLAN
1/4" = 1'-0"



A2 STAIR SECTION LOOKING WEST
1/4" = 1'-0"



A4 STAIR SECTION LOOKING EAST
1/4" = 1'-0"



A5 STAIR SECTION LOOKING NORTH
1/4" = 1'-0"

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ST. PETERS, MO 63376

No.	Date	Revision

STAIR PLAN/ DETAILS

Project No.
23121

Sheet No.
A165

Date
09/16/2025

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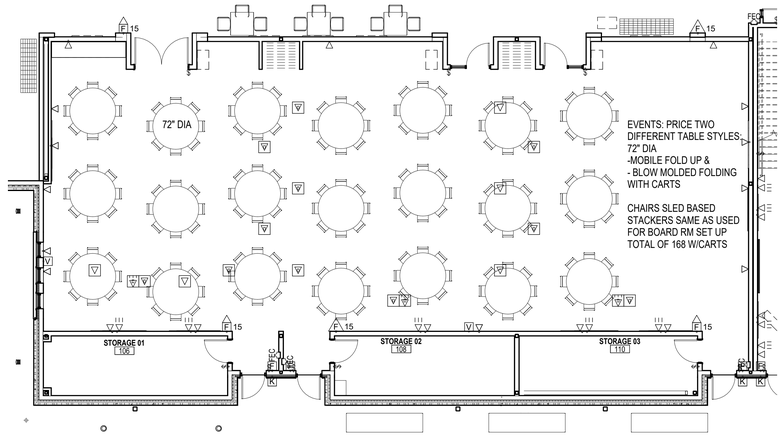
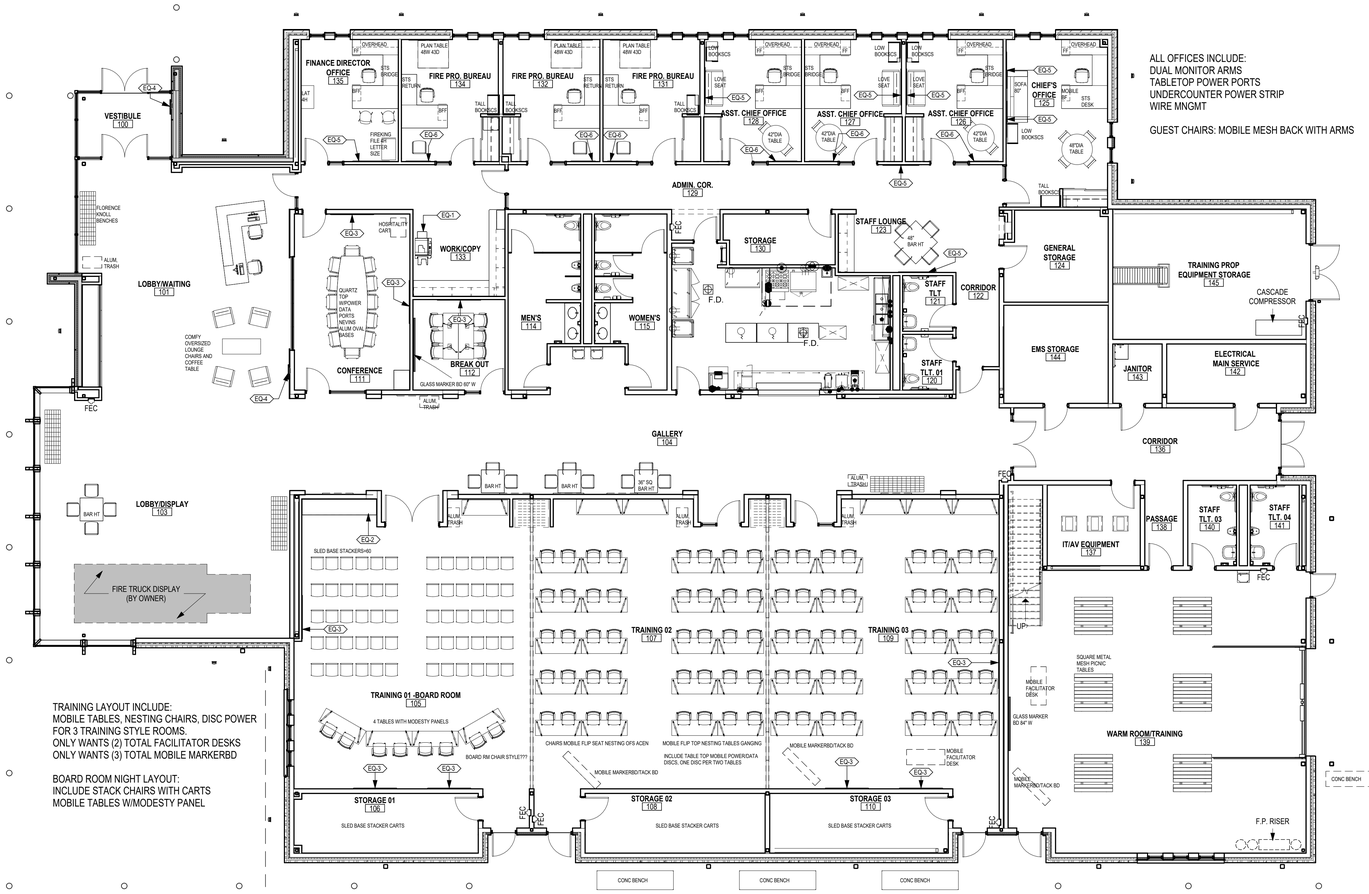
EQUIPMENT LEGEND

TAG	QTY	EQUIPMENT	O/C
EQ-1	1	COPIER	OWNER SUPPLIED, CONTRACTOR INSTALL
EQ-2	1	UNDER COUNTER REFRIGERATOR	OWNER SUPPLIED, CONTRACTOR INSTALL
EQ-3	9	85" TV/MONITOR WALL HUNG	OWNER SUPPLIED, CONTRACTOR INSTALL
EQ-4	2	43" TV/MONITOR VERTICAL WALL HUNG	OWNER SUPPLIED, CONTRACTOR INSTALL
EQ-5	11	65" TV/MONITOR WALL HUNG	OWNER SUPPLIED, CONTRACTOR INSTALL
EQ-6	6	43" TV/MONITOR WALL HUNG	OWNER SUPPLIED, CONTRACTOR INSTALL



D5 EVENT LAYOUT 72" ROUND 8-TOP
1/8" = 1'-0"



ALL OFFICES INCLUDE:
DUAL MONITOR ARMS
TABLETOP POWER PORTS
UNDERCOUNTER POWER STRIP
WIRE MNGMT

GUEST CHAIRS: MOBILE MESH BACK WITH ARMS

TRAINING LAYOUT INCLUDE:
MOBILE TABLES, NESTING CHAIRS, DISC POWER FOR 3 TRAINING STYLE ROOMS.
ONLY WANTS (2) TOTAL FACILITATOR DESKS
ONLY WANTS (3) TOTAL MOBILE MARKERBD

BOARD ROOM NIGHT LAYOUT:
INCLUDE STACK CHAIRS WITH CARTS
MOBILE TABLES W/MODESTY PANEL



A1 FURNITURE/EQUIPMENT PLAN
1/8" = 1'-0"

FURNITURE PROVIDED BY VENDOR, FURNITURE ON SHEET IS FOR REFERENCE ONLY

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No.	Revision	Date

FURNITURE/EQUIPMENT PLAN

Project No. 23121
Sheet No. A181
Date 09/16/2025

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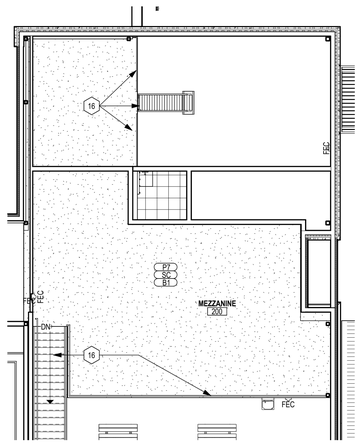
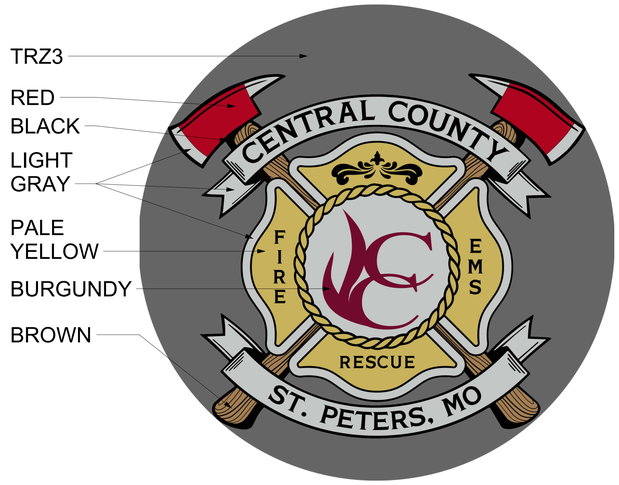
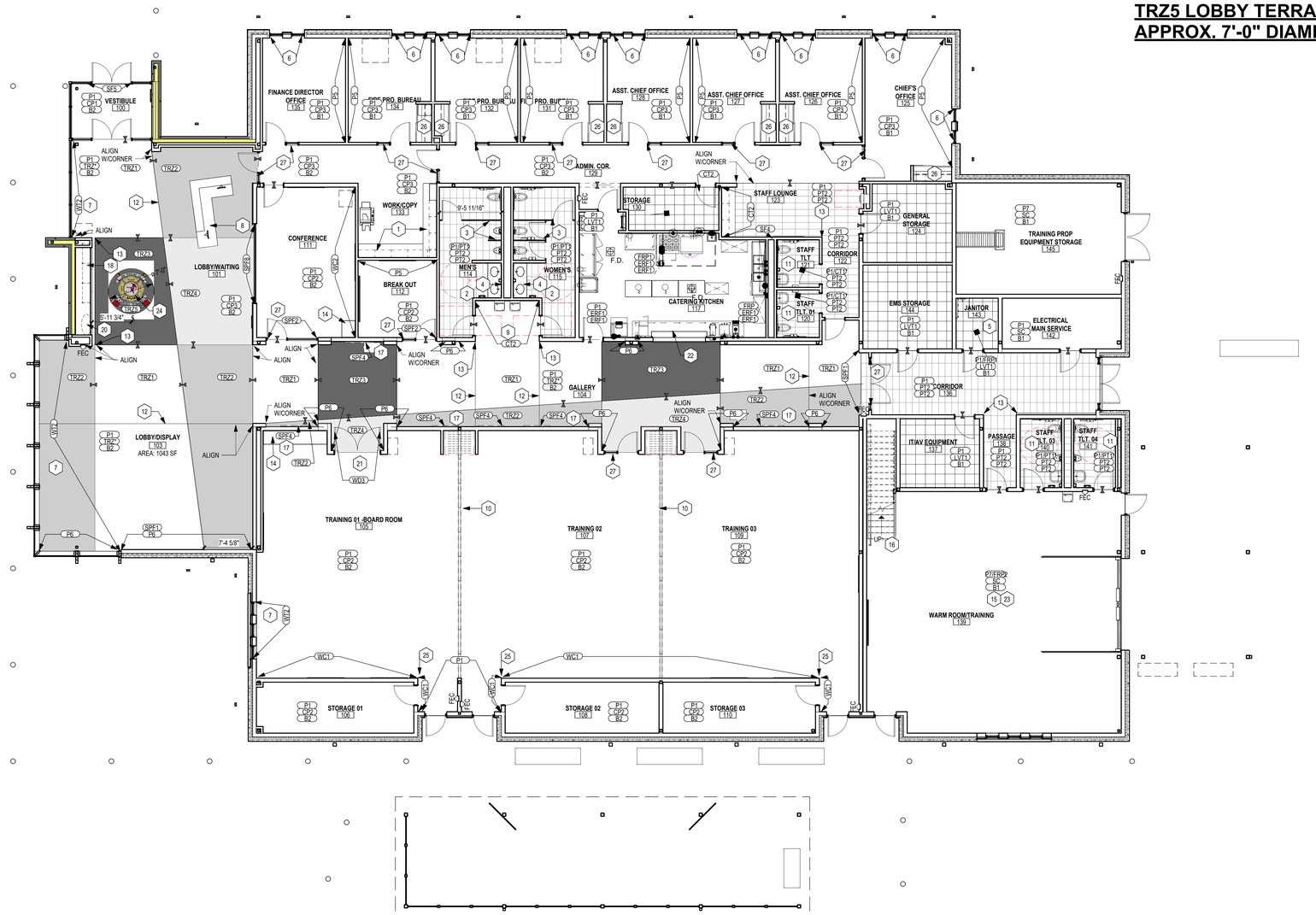


E1 FLOOR PLAN - MEZZANINE FLOOR FINISH
1/8" = 1'-0"



TRZ5 LOBBY TERRAZZO FLOOR LOGO, APPROX. 7'-0" DIAMETER



A1 FINISH FLOOR PLAN
1/8" = 1'-0"

KEYED NOTES FINISH FLOOR PLAN

MARK	DESCRIPTION
1	25"D PLASTIC LAMINATE COUNTER PL2, 4"H BACKSPLASH, LAMINATE WALL & BASE CABINETS PL1 & UNDER COUNTER METAL SUPPORT BRACKETS AS INDICATED.
2	PUBLIC RESTROOM: INSTALL TILE PT1 WET WALL & SIDE WALLS AT TOILET, FULL HEIGHT AS INDICATED ANY OUTSIDE EDGES TRIM TR1. INCLUDE ACCENT RIBBON OF WALL TILE CT3. NOTE: BASE ON WALLS WITHOUT FULL HEIGHT TILE MATCH FLOOR TILE & CUT TO 6" H X 24"W WITH TOP CAP SCHLUTER TRIM TR1. INCLUDE TRANSITION TR5 COVE TRIM WHERE WALLS MEET FLOOR TILE. PAINT ABOVE TILE. CONCRETE BACKER BOARD AT TILE AND MOISTURE RESISTANT GYP.BOARD ALL WALLS & CEILING. REFER TO ELEVATIONS FOR ADD'L INFORMATION
3	PUBLIC RESTROOMS: SOLID PHENOLIC TOILET PARTITIONS & URINAL SCREENS BLACK CORE, FLOOR MOUNTED, OVERHEAD BRACED. BOBRICK PARTITIONS OR APPROVED EQUAL. COLOR: WILSONART 3020 GRAPHITE GRAPHIX.
4	25"D SOLID SURFACE COUNTERTOP & 4"H BACK & SIDE SPLASHES SDS3, INTEGRAL BOWL SINK, PLASTIC LAMINATE ANGLED WALL PANEL PL4
5	JANITORS: INSTALL FRP 52" OAH WAINSCOT AROUND ROOM. ALL WALLS (48"H FRP INSTALL ALONG TOP OF A 4" H VINYL BASE.) USE ALL COORDINATING PVC TRIM TOP, BOTTOM, & INSIDE CORNER PIECES. CLEAR BEAD OF SEALANT ALONG ALL EDGES OF MOP SINK.
6	PROVIDE & INSTALL WINDOW TREATMENTS WT1 SOLAR SHADES AT OFFICES/TRAINING. WINDOW SILLS TO BE SDS5
7	MOTORIZED ROLLER SHADES IN LOBBY. COORDINATE LOCATION OF WALL SWITCH WITH DESIGNER & PROVIDE SHOP DRAWINGS FOR REVIEW/APPROVAL GC COORDINATE ALL ELEC HOOKUP REQUIRED.
8	BUILT IN RECEPTION DESK - QUARTZ TRANSACTION LEDGE/CORNER SDS1, PLAS.LAMINATE CHASSIS PL5 FRONT FACADE TEXTURED LAMINATE, WORKSURFACE WITH WATERFALL EDGE QUARTZ SDS1& BACKSPLASH PL6, BASE CABINETS PLASTIC LAMINATE PL6, RECESSED LED TAPELIGHT AT SLOT & TOE KICK, BRUSHED ALUM. TOEKICK PL4 SEE ELEVATIONS
9	DRINKING FOUNTAIN FULL HEIGHT TILE ACCENT WALL CT2
10	OPERABLE PARTITION STANDARD KWIK-WALL MODEL 3030 TYPE II VINYL WALLCOVERING FINISH, COLOR TBD. VINYL SWEEPS COLOR: DARK BRONZE.
11	INDIV. RESTROOM: INSTALL TILE PT1 WET WALL & SIDE WALLS AT TOILET FULL HEIGHT AS INDICATED, ACCENT RIBBON OF CT3 . ANY OUTSIDE EDGES TRIM TR1. NOTE: BASE ON WALLS WITHOUT TILE MATCH FLOOR TILE & CUT TO 6" H X 24"W WITH TOP CAP SCHLUTER TRIM TR1. INCLUDE TRANSITION TR5 COVE TRIM WHERE WALLS MEET FLOOR TILE. PAINT ABOVE TILE. CONCRETE BACKER BOARD AT TILE AND MOISTURE RESISTANT GYP.BOARD ALL WALLS & CEILING. REFER TO ELEVATIONS FOR ADD'L INFORMATION
12	ACCENT ZINC STRIP LOCATION IN TERRAZZO FLOOR
13	PROVIDE & INSTALL CORNER GUARDS WP1
14	25"D QUARTZ COUNTERTOP SDS1, 4"H BACKSPLASH, LAMINATE WALL & BASE CABINETS PL1
15	FRP WAINSCOT AROUND ROOM ALL WALLS. SEE ELEVATIONS.
16	PAINT ALL EXPOSED HANDRAILS AT STAIRS & MEZZANINE, AND ALL EXPOSED METAL AT STAIRS & MEZZANINE INCLUDING UNDERSIDE P2
17	ACOUSTICAL WALL PANELS DIGITALLY PRINTED
18	CUSTOM BUILT IN DISPLAY CASES WITH AIRCRAFT CABLE SUSPENSION KITS AND TEMPERED GLASS SHELVES LOBBY SPF7
19	NOT USED
20	OPEN CABINET SPACE FOR MANNEQUIN DISPLAY, PROVIDE & INSTALL BRAND ZOUKKOU MALE TORSO W/HEAD, ARMS, & HANDS ADJUSTABLE HEIGHT DISPLAY STAND, AMAZON. CONTACT DESIGNER FOR CUT SHEET.
21	BOARD ROOM PAIR OF CUSTOM WOOD DOORS. SEE ELEVATIONS & FINISH SCHEDULE FOR ADDITIONAL INFO.
22	CONTINUOUS QUARTZ COUNTERTOP AND PASS THRU LEDGE SDS1. STAINLESS LEGS AND SHELF SUPPORTS ON CATERING KITCHEN SIDE. INCLUDE STAINLESS APRON AT SINK LOCATIONS
23	PAINT 4"W SAFETY STRIPES ON SEALED CONCRETE FLOOR, STRIPE LOCATION PER OWNER DIRECTION.
24	PROVIDE & INSTALL CUSTOM TERRAZZO LOGO, 6-COLOR, OBTAIN DIGITAL LOGO FROM DESIGNER. NOTE CIRCLE OUTLINE SHAPE ONLY INDICATES OVERALL DIAMETER & IS NOT TO BE PART OF THE FLOOR PATTERN.
25	STAINLESS STEEL CORNER GUARDS WP3, SEE FINISH SCHEDULE
26	CLOSETS: PROVIDE & INSTALL BLACK PLASTIC LAMINATE SHELF AND COAT ROD
27	PROVIDE & INSTALL WINDOW FILM SPF2 ALL SIDELIGHTS

FINISH PLAN LEGEND

SYMBOL DENOTES:

WALL FINISH → F.X*
FLOOR FINISH → F.X
BASE FINISH → F.X

FLOOR MATERIAL CHANGE

CARPET PATTERN / TILE / LVT DIRECTION

NOTE: * INDICATES THAT FINISH VARIES. REF. ELEVATIONS AND FINISH PLAN FOR ADD'L INFO

EACH ROOM SHALL HAVE A ROOM FINISH TAG. SEE FLOOR FINISH PLAN. REFER TO FINISH PLAN KEYNOTES FOR CASEWORK FINISHES AND REFLECTED CEILING PLAN FOR CEILING FINISHES.

INTERIOR FINISH GENERAL NOTES

1. INTERIOR FINISH MATERIALS SHALL COMPLY WITH THE FLAME SPREAD & SMOKE DEVELOPMENT LIMITATION USED IN CHAPTER 8 OF THE INTERNATIONAL BUILDING CODE.
2. ALL INTERIOR WALL COVERINGS MUST COMPLY WITH THE FOLLOWING: CLASS 1, FLAME SPREAD RATING 0-25 ASTM-E-84 PER FINISH SHEET.
3. G.C. TO SUBMIT ALL FINISHES IN MATERIAL SAMPLE FORM TO DESIGNER FOR APPROVAL PRIOR TO ORDER OF MATERIALS - NO INTERNET OR COPY FORM SUBMITTALS WILL BE APPROVED.
4. ALL WALLS TO BE PAINTED P1 AND ALL INTERIOR DOOR FRAMES TO BE PAINTED P2 UNLESS NOTED OTHERWISE. REFER TO FLOOR FINISH PLAN FOR ACCENT PAINT LOCATIONS. ALL PAINTED SURFACES TO RECEIVE (1) PRIME COAT AND A MINIMUM OF (2) FINISH COATS PER PAINT COLOR. DARKER ACCENT COLORS TO RECEIVE (3-4) FINISH COATS FOR OPTIMAL COVERAGE.
5. REFER TO REFLECTED CEILING PLAN FOR CEILING SYSTEM TYPES AND SOFFIT ACCENT PAINT COLOR LOCATIONS. ALL EXPOSED FACES OF SOFFITS TO BE PAINTED INCLUDING UNDERSIDE. ALL GYP. BD. CEILINGS TO BE PAINTED P3 UNLESS NOTED OTHERWISE.
6. REFER TO FLOOR PLAN FOR ADJUSTABLE SHELVING LOCATIONS. ADJUSTABLE SHELVING SHALL BE HEAVY DUTY WHITE MELAMINE SHELVES WITH WHITE PVC EDGES MOUNTED ON WHITE HEAVY DUTY WALL MOUNTED STANDARDS WITH WHITE ADJUSTABLE HEAVY DUTY BRACKETS UNLESS NOTED OTHERWISE.
7. ALL BUILT-IN CASEWORK TO BE VERIFIED AND COORDINATED WITH OWNER. G.C. TO SUBMIT SHOP DRAWINGS TO DESIGNER FOR APPROVAL PRIOR TO ORDER OF MATERIALS.
8. ALL HARDWARE TO BE BRUSHED STAINLESS STEEL FINISH UNLESS NOTED OTHERWISE.
9. ALL FLOORING TO RUN FROM PARTITION TO PARTITION AND CENTER FLOORING IN DOOR OPENINGS AS REQUIRED, TYPICAL THROUGHOUT.
10. PROVIDE APPROPRIATE ADA COMPLIANT TRANSITION/REDUCER STRIPS TO MATCH FLOORING AT ALL FLOORING MATERIAL TRANSITIONS AS NEEDED UNLESS NOTED OTHERWISE.
11. ALL FLOORING PATTERN/GRAIN TO RUN IN THE SAME DIRECTION THROUGHOUT UNLESS NOTED OTHERWISE. SEE FINISH FLOOR PLAN.
12. SEE FINISH FLOOR PLAN FOR WALL PROTECTION LOCATIONS. WAINSCOTS AND CORNER GUARDS WHERE NOTED TO BE INSTALLED SO THAT BOTTOM EDGE ALIGNS WITH TOP EDGE OF SPECIFIED BASE, TYPICAL THROUGHOUT. CHAIR RAIL AND RUB RAIL LOCATIONS AND HEIGHTS TO BE VERIFIED WITH OWNER/TENANT FURNITURE PRIOR TO INSTALLATION.
13. SUBMIT SHOP DRAWINGS FOR ALL WINDOW TREATMENTS TO DESIGNER FOR APPROVAL PRIOR TO ORDER OF MATERIALS.
14. FABRIC WRAPPED TACKBOARD PANELS TO BE ACOUSTI-TAK (ATF) BY GOLTERMAN & SABO OR APPROVED EQUAL. PANEL CORE TO BE 1/8" 18 PCF FIBERGLASS FACING LAMINATED TO 6-7 PCF FIBERGLASS BACKING. TOTAL PANEL THICKNESS TO BE 7/8". REFER TO INTERIOR ELEVATIONS FOR PANEL LOCATIONS AND COLORS. ANY OUTLETS IN PANELS SHALL BE FLUSH WITH THE FACE OF THE TACKBOARD.
15. PROVIDE (2) BOXES OF EACH CARPET TILE FOR TENANT'S FUTURE MAINTENANCE.
16. THERE SHALL BE NO CONFLICTS WITH WALL DEVICES OR HVAC ITEMS WITHIN FEATURE DECORATIVE WALL MATERIALS. IF CONTRACTOR BECOMES AWARE OF SUCH A CONFLICT, STOP WORK IMMEDIATELY AND CONTACT DESIGNER FOR RESOLUTION..

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No.	Date	Revision

FINISH FLOOR PLAN

Project No. 23121

Sheet No. I101

Date 09/16/2025

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CENTRAL CO. HQ - INTERIOR FINISH SCHEDULE

ACOUSTICAL CEILINGS

ACT1	ACOUSTICAL CEILING TILES - FIELD MFGR: ARMSTRONG PATTERN: DUNE SECOND LOOK II ANGLED TEGULAR MODEL: 2712 SIZE: 2'-0" X 4'-0", 15/16" GRID COLOR: WHITE CONTACT: ELIZABETH MOON 816.216.2890
ACT2	ACOUSTICAL CEILING TILES LOBBY & GALLERY MFGR: ARMSTRONG PATTERN: ULTIMA SQUARE LAY IN MODEL: 1980, SIZE: 2'-0" X 6'-0", 15/16" GRID COLOR: WHITE
ACT3	ACOUSTICAL CEILING BLADES - GALLERY MFGR: ARMSTRONG SOUNDSCAPES BLADES FINISH: BROWN SUGAR WALNUT (WBS) CUSTOM LENGTH, 10'H X 72" X 1-3/4", 12" CTC BLADE SPACING CONTACT: ELIZABETH MOON 816.216.2890
ACT4	ACOUSTICAL CEILING TILES - VINYL FACED CATERING KITCHEN MFGR: ARMSTRONG STYLE: CLEAN ROOM VL MODEL: SQ LAY IN UNPERFORATED SIZE: 24" x 24"x 5/8", 15/16" GRID, COLOR: WHITE
ACT5	ACOUSTICAL CEILING GRID LOBBY MFGR: ARMSTRONG PATTERN: PRELUDE 15/16" GRID COLOR: BLACK USE AS SUSPENSION SYSTEM FOR 9WOOD SF6

BASE

B1	VINYL BASE - FIELD MFGR: TARKETT JOHNSONITE STYLE/SIZE: 4" HIGH COVE PROFILE, 1/8" GAUGE, 4'-0" LENGTHS COLOR: 63 BURNT UMBER
B2	VINYL BASE - LOBBY/GALLERY MFGR: TARKETT JOHNSONITE MILLWORK BASE STYLE/SIZE: 6" HIGH REVEAL PROFILE, 1/4" GAUGE, 8'-0" LENGTHS COLOR: 63 BURNT UMBER

CARPET

CP1	CARPET - ENTRY WALK OFF - VESTIBULE MFGR: TARKETT PATTERN: ASSERTIVE STRIA 04839 COLOR: CHROMIUM 26201 SIZE: 24"x24" INSTALL METHOD: MONOLITHIC CONTACT: AMY ELLIS 1.314.348.7677
CP2	CARPET - MODULAR TILE - TRAINING & CONF RMS MFGR: BENTLEY PATTERN: REDACTED 8RF23 COLOR: MEMOIR 81527 SIZE: 18"X36" TILE INSTALL METHOD: ASHLAR CONTACT: TIFFANY AUER 314.440.6235
CP3	CARPET - MODULAR TILE - OFFICES MFGR: BENTLEY PATTERN: SURE BET 4EBB26 COLOR: POINT SPREAD 404257 SIZE: 18"X36" TILE INSTALL METHOD: ASHLAR

CERAMIC WALL TILE

CT1	NOT USED
CT2	RED WALL TILE - ACCENT DRINKING FOUNTAIN FULL HEIGHT & COFFEE BAR MFGR: VIRGINIA TILE LUNADA BAY TILE PATTERN: GRAPHITE SIZE: DUET (TRAPAZOID SHAPED) COLOR: CARMINE RED SKU: GRA-DUET-CARMINRED, SIZE: 1-1/4"X 3-1/2"X9-1/2" INSTALL METHOD: VERTICAL STACK USE SCHLUTER SCHIENE TRIM ALL OUTSIDE EXPOSED EDGES, TYP. CONTACT: JILL PATTERSON 314-208-7962
CT3	CERAMIC WALL TILE - ACCENT RIBBON TLT ROOMS MFGR: DAL TILE PATTERN: IRONCRAFT LINEAR MOSAIC COLOR: GREY BLACK BLEND IC17, SIZE: 12X12" MESH MOUNT INSTALL METHOD: HORIZONTAL RIBBON CONTACT: TABATHA CURRY 314.687.3960

EPOXY RESIN FLOORING

ERF1	EPOXY RESIN FLOORING & 4" INTEGRAL COVE BASE MFGR: TNEMEC OR APPROVED EQUAL STYLE: STRATASHIELD DECOFLECK W/EXTRA COAT SEALER, PRIMER/BROADCAST 237 POWER TREAD, INTERMEDIATE 224 DECO FLECK, GROUT COAT 224 DECO FLECK , FINISH COAT 248 EVERTHANE COLOR: CUSTOM COLOR #24068 1/4" FLAKE SIZE, "BLUE GRAY" PROVIDE MOCKUP PANELS FOR COLOR & TEXTURE APPROVAL. CONTACT: MISSOURI TERRAZZO 314.361.8090

FABRIC

FAB1	FABRIC - DISPLAY CASES WRAPPED BACK PANEL MFGR: DESIGNTEX, STYLE: WOOLISH COLOR:, 3973-804 OSPREY SIZE: 54"WIDTH, CONTENT: 85% POLYESTER POSTCONSUMER RECYCLED, 15% POLYESTER CONTACT: GLENDA JEHLE 314.922.6590

FIBERGLASS REINFORCED PANELS

FRP1	FRP PANELS - CATERING FULL HT., JANITOR & LAUNDRY MFGR: ALTRO, STYLE: PURAGUARD, PEBBLE EMBOSSED TEXTURE, COLOR: SEA SALT #W141/400, SIZE: CLASS A, SIZE: 4'X10' SHEET, GAUGE: 0.09" INCLUDE ALL TRIM CAPS & CORNER GUARDS.
FRP2	FRP PANELS - WAINSCOT WARM ROOM MFGR: ALTRO, STYLE: PURAGUARD, PEBBLE EMBOSSED TEXTURE, COLOR: PEPPER #W141/301, SIZE: CLASS A, SIZE: 4'X10' SHEET, GAUGE: 0.09" INCLUDE ALL TRIM CAPS & CORNER GUARDS.

GROUT

GT1	WALL GROUT - COFFEE BAR, DRINKING FOUNTAIN, TLT RM WALLS MFGR: MAPEI STYLE: KERAPOXY CQ COLOR: 77 FROST NOTE: KNIFE GROUT JOINT
GT2	FLOOR GROUT MFGR: MAPEI STYLE: KERAPOXY CQ COLOR: 19 PEARL GRAY NOTE: KNIFE GROUT JOINT

LUXURY VINYL TILE

LVT1	LUXURY VINYL TILE FLOORING - FIELD COLOR MFGR: TARKETT STYLE: TRUE TO FORM, CONTOUR SIZE: 18"X18", 32MIL WEAR LAYER STYLE: MINERAL BASALT PCMB, COLOR: CRATER LAKE 4647, INSTALL QUARTER TURNED CONTACT: AMY ELLIS 1.314.348.7677

PAINT

P1	PAINT – WALLS – FIELD COLOR MFGR: SHERWIN WILLIAMS FINISH: PROMAR ZERO VOC, EGGSHELL COLOR: SW9165 GOSSIMER VEIL
P2	PAINT – DOOR FRAMES/DOORS INDICATED AS "PAINT" ON DOOR SCHEDULE, EXPOSED METAL STAIRWELL STRINGERS/RAILINGS/ LADDER MFGR: SHERWIN WILLIAMS SERIES: PRECATALYZED WATERBASED EPOXY SINGLE COMPONENT, FINISH: SEMI GLOSS COLOR: SW7069 IRON ORE
P3	PAINT – GYP BD. CEILINGS MFGR: SHERWIN WILLIAMS FINISH: PROMAR ZERO VOC, FLAT COLOR: SW7005 PURE WHITE
P4	PAINT – LOBBY & GALLERY EXPOSED DECK/CEILING ITEMS MFGR: SHERWIN WILLIAMS SERIES:DRYFALL PROINDUSTRIAL WATER BASED CATALYZED EPOXY FINISH: EGGSHELL COLOR: SW6258 TRICORN BLACK
P5	PAINT – WALLS – ACCENT OFFICES MFGR: SHERWIN WILLIAMS FINISH: PROMAR ZERO VOC, EGGSHELL COLOR: SW6250 GRANITE PEAK
P6	PAINT – WALLS – ACCENT COLUMNS GALLERY MFGR: SHERWIN WILLIAMS FINISH: PROMAR ZERO VOC, EGGSHELL COLOR: SW7668 MARCH WIND
P7	PAINT – EPOXY WARM ROOM TRAINING MFGR: SHERWIN WILLIAMS SERIES: EPOXY, FINISH: SEMI GLOSS COLOR: SW9165 GOSSIMER VEIL NOTE ALL WALLS WITH EXPOSED CMU BLOCK TO HAVE BLOCK FILLER & PRIMED PRIOR TO PAINTING
P8	PAINT – ENTIRE BAY AREA CEILINGS MFGR: SHERWIN WILLIAMS SERIES:DRYFALL PROINDUSTRIAL WATER BASED CATALYZED EPOXY FINISH: EGGSHELL COLOR: SW7005 PURE WHITE PRIME SURFACES PRIOR TO PAINTING
P9	PAINT – GYP BD. CEILINGS TOILET ROOMS MFGR: SHERWIN WILLIAMS FINISH: WATER BASED EPOXY, EGGSHELL COLOR: SW7005 PURE WHITE
P10	PAINT – LOBBY & GALLERY WALLS ABOVE CEILING CLOUDS MFGR: SHERWIN WILLIAMS SERIES:PROMAR ZERO VOC, EGGSHELL COLOR: SW6258 TRICORN BLACK DESIGN INTENT IS TO SNAP A LINE ON THE WALL ABOVE THE CEILING CLOUD & PAINT BLACK AROUND THE ROOM EVERYTHING ABOVE THE LINE
P11	PAINT – SAFTEY STRIPES MFGR: SHERWIN WILLIAMS GENERAL POLYMERS SERIES:4944 PACECOTE POLYASPARTIC TOPCOAT COLOR: CUSTOM MATCH SW6911 CONFIDENT YELLOW STRIPES LOCATIONS PER OWNER DIRECTION

PLASTIC LAMINATE

PL1	PLASTIC LAMINATE – VERTICAL DOORS & DRAWERS MFGR: FORMICA STYLE: #05884-58 CHESTNUT WOODLINE, MATTE TEXTURE VERTICAL GRAIN DIRECTION, TYP. INCLUDE MATCHING 1MM PVC EDGEBAND. CONTACT: ANN YOUNG 314.221.2434
PL2	PLASTIC LAMINATE – COUNTERTOPS MFGR: WILSONART HPL STYLE: # 5035-38 HANDSPUN SLATE INCLUDE MATCHING 3MM PVC EDGEBANDING CONTACT: MARIA LAMMERT 314.809.5114
PL3	PLASTIC LAMINATE – CLOSET SHELVES MFGR: WILSONART STYLE: D354-60-MATTE FINISH COLOR: DESIGNER WHITE NOTE: INCLUDE MATCHING 1MM PVC EDGE BANDING
PL4	ALUMINUM TOEKICK RECEPT DESK MFGR: FORMICA DECO METAL #M0605 BRUSHED ALUMINUM
PL5	PLASTIC LAMINATE – RECEPTION DESK FACADE, DISPLAY CASE HEADER MFGR: LAB DESIGN STYLE: #SE163-LH BLACK FENCE - LH (CG PATTERN) HORIZONTAL GRAIN DIRECTION, TYP. SHEET SIZE: 48"x96" REP CONTACT: info@parkwoodchicago.com
PL6	PLASTIC LAMINATE – RECEPT.DESK & DISPLAY CASE INTERIOR MFGR: WILSONART STYLE: #1595-60 BLACK MATTE FINISH, MAATCHING 3MM EDGEBAND AT COUNTERS, 1MM EDGEBAND DOOR & DRAWERS

PORCELAIN TILE

PT1	PORCELAIN FLOOR TILE - RESTROOM WALLS MFGR: VIRGINA TILE CAESAR STYLE: STONEWAYS, COLOR: SKY SIZE: 12X24", INSTALL STACK BOND W/KNIFE JOINTS. INCLUDE CRACK ISOLATON MEMBRANE ALL CONTROL JOINTS INSTALL WITH GROUT GT1 CONTACT: JILL PATTERSON 314-208-7962
PT2	PORCELAIN FLOOR TILE - DARK - RESTROOM FLOORS MFGR: VIRGINA TILE CAESAR STYLE: STONEWAYS, COLOR: NIGHT SIZE: 12X24", INSTALL STACK BOND W/KNIFE JOINTS. INCLUDE CRACK ISOLATON MEMBRANE ALL CONTROL JOINTS INSTALL WITH GROUT GT2

SEALED CONCRETE

SC	SEALED CONCRETE FLOOR WITH DENSIFIERS REFER TO ARCHITECTURAL SPECIFICATIONS

SPECIALTY FINISH

SPF1	SPECIALTY FINISH - CUSTOM VINYL GYP. BD. WALL APPLIQUES MFGR: INFINITE OPTIKS QUALITY GLASS STYLE: CUSTOM DIGITALLY PRINTED DESIGNS. MULTI COLOR SIZES VARIES SEE ELEVATIONS. MULTI-COLOR CUSTOM DESIGNS TO BE DETERMINED BY ARCHITECT. WALL TO BE FINISHED TO LEVEL 5 FINISH PRIOR TO INSTALL. PROVIDE MOCKUP FOR APPROVAL CONTACT: KELLY FORD 314.495.5676
SPF2	SPECIALTY FINISH - CUSTOM VINYL GLASS APPLIQUE MFGR: INFINITE OPTIKS QUALITY GLASS STYLE: CUSTOM DIGITALLY PRINTED DESIGN. ETCHED GLASS LOOK SIZE VARIES SEE ELEVATIONS. MULTI-COLOR CUSTOM DESIGNS TO BE DETERMINED BY ARCHITECT. PROVIDE MOCKUP FOR APPROVAL. CONTACT: KELLY FORD 314.495.5676
SPF3	NOT USED
SPF4	SPECIALTY FINISH -DIGITAL PRINTED ACOUSTIC FABRIC WRAPPED WALL PANELS MFGR: GOLTERMAN SABO ACOUSTI - IMAGE THICKNESS 2", SIZES VARY, DIGITALLY PRINTED ON FABRIC & IMAGES VARY, SEE ELEVATIONS, CONTACT DESIGNER FOR CUSTOM ARTWORK 6-7# FIBERGLASS W/THICK SCRIM, INSTALL WITH IMPAILING CLIPS AND ADHESIVE CONTACT: MARY ROTTER 314.604.4620
SPF5	SPECIALTY FINISH - CUSTOM VINYL GLASS APPLIQUE - VESTIBULE ADDRESS NUMBERS MFGR: INFINITE OPTIKS QUALITY GLASS STYLE: 8"H WHITE OPAQUE VINYL APPLIQUE, FONT: HELVETTICA BOLD. CONFIRM NUMBERS WITH OWNER. CENTER ON GLASS TRANSOM WINDOW TO BE LEGIBLE FROM THE STREET. PROVIDE MOCKUP FOR APPROVAL. CONTACT: KELLY FORD 314.495.5676
SPF6	SPECIALTY FINISH WOOD CEILING CLOUDS - LOBBY MFGR: 9WOOD, INC. WOOD GRILLE SERIES: 1100, CROSS PIECE GRILL, MEMBER WIDTH: 5/8" X 2-1/4" DEPTH CLASS 1 (A) RATED, WOOD STAINED, EDGE PROFILE: SQUARE, 6 MEMBERS/LIN FT SPECIES: WESTERN HEMLOCK, CUSTOM STAIN COLOR MATCH WD1, ASSEMBLY STYLE: CROSS PIECE BACKER, INCLUDE BLACK ACOUSTICAL BACKING AND INCLUDE CONCEALED BLACK SUSPENSION SYSTEM & ALL REQUIRED TRIM & ACCESSORIES. PROVIDE SHOP DRAWINGS FOR APPROVAL. FOLLOW ALL MANUFACTURER'S INSTALL INSTRUCTIONS. CONTACT: ALLISON BOSS 636-448-5440
SPF7	SPECIALTY FINISH - CABLE SUSPENSION KITS LOBBY WITH TEMPERED GLASS SHELVES MFGR: NOVADISPLAY MODEL: KSI-011 INCLUDE OA4 HARDWARE TOP AND BOTTOM FITTINGS, AIRCRAFT CABLES, CG06 SHELF SUPPORTS, 14" DEEP X 36"WIDE TEMPERED GLASS SHELVES (9) 3/8" THICK, FLAT POLISHED EDGES
SPF8	SPECIALTY FINISH - ACID ETCHED GLASS PANELS LOBBY MFGR: WALKER GLASS TEXTURES TYPE: MONOLITHIC PANELS, VITRE STARPHIRE OPAQUE GAUGE: 10MM (1/2"), TEMPERED GLASS FINISH LOW IRON SATIN WHITE OPAQUE #1 FACE (LOBBY SIDE), SMOOTH GLASS OPQAUE #2 FACE (CONF ROOM SIDE) CONTACT: JOHN JUST 440-554-9382

SOLID SURFACE

SDS1	SOLID SURFACE - QUARTZ - RECEPTION & CONF MFGR: CAMBRIA COLOR: DELGATE , GAUGE: 3CM, EASED EDGES
SDS2	SOLID SURFACE - QUARTZ VANITY TOP RESTROOMS MFGR: CAMBRIA COLOR: SANDGATE , GAUGE: 3CM, EASED EDGES
SDS3	SOLID SURFACE - WINDOW SILLS MFGR: WILSONART SOLID SURFACE COLOR: 9204CE MORNING ICE, GAUGE: 1/2", EASED EDGES

STAINLESS STEEL

STS	STAINLESS STEEL COUNTERTOPS - CATERING KITCHEN REFER TO ARCHITECT. SPECIFICATIONS SERIES: 304, 16 GAUGE STAINLESS, SATIN FINISH

TERRAZZO FLOORING

TRZ1	TERRAZZO FLOORING - MAIN LOBBY - FIELD WHITE MFGR: MISSOURI TERRAZZO COLOR: CUSTOM COLOR EPOXY #25-26, 3/8" GAUGE NOTE: USE ZINC STRIPS AS TRANSITION BETWEEN COLOR & AS NOTED NOTE ALL AREAS OF TERRAZZO TO BE DIAMOND POLISHED, CLEANED & SEALED. FOLLOW ALL NTMA INSTALLATION METHODS AND GUIDELINES. PROVIDE ANTI FRACTURE MEMBRANE OVER ANY VISIBLE CONCRETE CRACKS. ALL LOCATIONS TYP. CONTACT: MISSOURI TERRAZZO 314.361.8090
TRZ2	TERRAZZO FLOORING - MAIN LOBBY - ACCENT DARK GRAY MFGR: MISSOURI TERRAZZO COLOR: CUSTOM COLOR EPOXY #25-25, 3/8" GAUGE NOTE: USE ZINC STRIPS AS TRANSITION BETWEEN COLOR. NOTE ALL AREAS OF TERRAZZO TO BE DIAMOND POLISHED, CLEANED & SEALED. FOLLOW ALL NTMA INSTALLATION METHODS AND GUIDELINES. PROVIDE ANTI FRACTURE MEMBRANE OVER ANY VISIBLE CONCRETE CRACKS. ALL LOCATIONS TYP. CONTACT: MISSOURI TERRAZZO 314.361.8090
TRZ3	TERRAZZO FLOORING - MAIN LOBBY - ACCENT DARK BLACK MFGR: MISSOURI TERRAZZO COLOR: CUSTOM COLOR EPOXY #25-27, 3/8" GAUGE NOTE: USE ZINC STRIPS AS TRANSITION BETWEEN COLOR. NOTE ALL AREAS OF TERRAZZO TO BE DIAMOND POLISHED, CLEANED & SEALED. FOLLOW ALL NTMA INSTALLATION METHODS AND GUIDELINES. PROVIDE ANTI FRACTURE MEMBRANE OVER ANY VISIBLE CONCRETE CRACKS. ALL LOCATIONS TYP. CONTACT: MISSOURI TERRAZZO 314.361.8090
TRZ4	TERRAZZO FLOORING - MAIN LOBBY - ACCENT LIGHT GRAY MFGR: MISSOURI TERRAZZO COLOR: CUSTOM COLOR EPOXY #25-01, 3/8" GAUGE NOTE: USE ZINC STRIPS AS TRANSITION BETWEEN COLOR. NOTE ALL AREAS OF TERRAZZO TO BE DIAMOND POLISHED, CLEANED & SEALED. FOLLOW ALL NTMA INSTALLATION METHODS AND GUIDELINES. PROVIDE ANTI FRACTURE MEMBRANE OVER ANY VISIBLE CONCRETE CRACKS. ALL LOCATIONS TYP. CONTACT: MISSOURI TERRAZZO 314.361.8090
TRZ5	TERRAZZO FLOORING - MAIN LOBBY - CUSTOM LOGO MFGR: MISSOURI TERRAZZO COLOR: 6-COLOR PATTERN TO MATCH BRAND LOGO, 3/8" GAUGE NOTE: USE 1/16" "L" STRIPS TO SEPARATE COLORS CONTACT DESIGNER FOR DIGITAL LOGO FILE. NOTE ALL AREAS OF TERRAZZO TO BE DIAMOND POLISHED, CLEANED & SEALED. FOLLOW ALL NTMA INSTALLATION METHODS AND GUIDELINES. PROVIDE ANTI FRACTURE MEMBRANE OVER ANY VISIBLE CONCRETE CRACKS. ALL LOCATIONS TYP. CONTACT: MISSOURI TERRAZZO 314.361.8090

TRANSITIONS/FLOORING ACCESSORIES

TR1	TRANSITION CERAMIC TILE & PORCELAIN TILE PERIMETER EDGES MFGR: SCHLUTER PATTERN: SCHIENE, NOTE SIZES VARY FOR FLOOR & WALLS COLOR: SATIN ANODIZED ALUMINUM
TR2	TRANSITION - CARPET TO EPOXY RESIN MFGR: JOHNSONITE SLIMLINE TRANSITION PATTERN: SLT-63-L COLOR: 63 BURNT UMBER
TR3	NOT USED
TR4	TRANSITION - CARPET TO CONCRETE MFGR: JOHNSONITE PATTERN: CTA-63-J COLOR: 63 BURNT UMBER
TR5	TRANSITION CERAMIC TILE COVE - ALL TOILET ROOMS MFGR: SCHLUTER PATTERN: DILEX-HKU COLOR: BRUSHED STAINLESS STEEL
TR6	TRANSITION SLOPED PORCELAIN TILE TO CONCRETE MFGR: SCHLUTER PATTERN: RENO COLOR: SATIN ANODIZED ALUMINUM
TR7	TRANSITION - CARPET TO LVT MFGR: JOHNSONITE SLIMLINE TRANSITION PATTERN: SLT-63-A COLOR: 63 BURNT UMBER
TR8	TRANSITION - VINYL REDUCER MFGR: JOHNSONITE PATTERN: RRS-63-C COLOR: 63 BURNT UMBER

WALL COVERING

WC1	VINYL WALLCOVERING - TRAINING ACCENT WALL MFGR: NATIONAL WALLCOVERING STYLE: DENOVO JETTA COLOR: DNJ-JET-08 DESCENDING WIDTH: 53-54", TYPE II VINYL REPEAT: 2.875 VERTICAL STRAIGHT ACROSS MATCH CONTACT: PEGGY SENDOBRY 314-570-8255
WC2	VINYL WALLCOVERING - CONF ROOM ACCENT WALL MFGR: WOLF-GORDON STYLE:CLAIR GOH 34187413 COLOR: COLHEITA MYLAR/BONE WIDTH: 52", 100% MYLAL LAMINATED OLEFIN COMPOSITE REPEAT: STRAIGHT HANG, RANDOM MATCH CONTACT: DAVID SMITH 314.302.8002

WALL PROTECTION

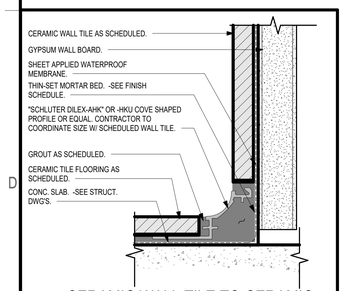
WP1	WALL PROTECTION - CORNER GUARDS OUTSIDE CORNERS MATCH FIELD COLOR P1 MFGR: INPRO STYLE: TAPE ON, 1-1/2"x1-1/2" WING, 4'-0" HEIGHT, COLOR: 0380 GALA INCLUDE ADDING SILICONE BEAD FOR ADDED SUPPORT EACH LOCATION. CONTRACTOR TO CONFIRM ALL QUANTITIES.
WP2	WALL PROTECTION - CORNER GUARDS OUTSIDE CORNERS ACCENT COLOR MATCH P8 MFGR: INPRO STYLE: TAPE ON, 1-1/2"x1-1/2" WING, 4'-0" HEIGHT, COLOR: 0105 SILVER CONTRACTOR TO CONFIRM ALL QUANTITIES.
WP3	WALL PROTECTION - STAINLESS CORNER GUARDS TRAINING MFGR: INPRO STYLE: ADHESIVE MOUNT, 1-1/2"x1-1/2" WING, 12'-0" HEIGHT TYPE 430, 16 GAUGE, STAINLESS STEEL SATIN FINISH

WINDOW TREATMENTS

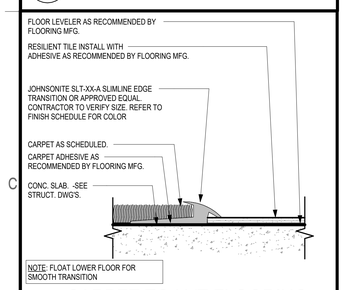
WT1	WINDOW TREATMENTS - ROLLER SHADES - SOLAR SHADES OFFICES/TRAINING MFGR: DRAPER CLUTCH OPERATED FLEXSHADE STYLE: SHEERWEAVE 3% OPENNESS SHADECLOTH COLOR: CHARCOAL V21, FASCIA: 875 CLEAR ANODIZED. MANUAL SHADES, INSIDE MOUNT, STAINLESS PULL CHAIN & INCLUDE LONG ENOUGH CHAIN AT HIGH WINDOWS CONTACT: DUSTIN PALMER GOLTERMAN & SABO 314.336.2142
WT2	WINDOW TREATMENTS -MOTORIZED ROLLER SHADES - LOBBY/BOARD RM MFGR: DRAPER STYLE: SHEERWEAVE, 3% OPENNESS SHADECLOTH COLOR: CHARCOAL V21, FASCIA: 875 CLEAR ANODIZED, INSIDE MOUNT, INCLUDE SOMFY MOTOR GANG ALL SHADES TOGETHER FOR UP/DOWN ALL EVENLY & ALIGNED CONTACT: DUSTIN PALMER GOLTERMAN & SABO 314.336.2142

WOOD

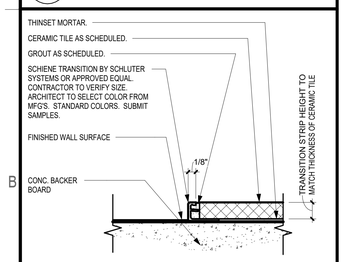
WD1	WOOD DOORS - OFFICES MFGR: VT INDUSTRIES ARCHITECTURAL WOOD DOORS SPECIES: SELECT WHITE MAPLE PLAIN SLICED COLOR: CHOCOLATE CH18
WD2	WOOD SHIP LAP HORIZONTAL PANELING SPECIES: MAPLE SELECT GRADE 1, PLAIN SLICED CUSTOM WOOD STAIN COLOR TO MATCH WD1 SIZE: 8.25"X12' PLANKS WITH 1/8" "NICKEL" SPACING V GROVE, 3/4" THICK PROVIDE 1/2" F.T. PLYWD BACKING IN LIEU OF 5/8" GYP BRD. PROVIDE 1" STAINED CORNER TRIM MOULDING AT ALL OUTSIDE EDGES & OUTSIDE CORNERS.
WD3	WOOD DOORS - BOARD ROOM MFGR: CUSTOM DESIGN WOOD DOOR W/METAL ACCENT, SCOBIS COMPANY CHESTERFIELD OR APPROVED EQUAL SPECIES: SELECT WHITE MAPLE PLAIN SLICED GRADE 1 COLOR: CUSTOM WOOD STAIN COLOR TO MATCH WD1 + WOOD DOORFRAME STAINED TO MATCH WD1 NOTE: HORIZONTAL GRAIN DIRECTION ON THESE DOORS, EQUALLY SPACED BOOKMATCHED VENEER PANELS VERTICAL METAL ACCENT INSERT_____, SUBMIT SHOP DRAWINGS & STAIN SAMPLE FOR APPROVAL. INSTALL WITH DECORATIVE HARDWARE ON LOBBY SIDE ROCKWOOD DOOR PULLS, STYLE:_____ HANDLE BSP BLACK SUEDE GRIP WITH US32D SATIN STAINLESS STEEL ENDCAPS, 1-1/4" DIAMETER, 36" OVERALL LENGTH. INTERIOR BOARD RM SIDE TO HAVE PANIC HARDWARE IN US32D SATIN STAINELSS STEEL W/BLACK GLOSS PAINT "PUSH". DOOR CONTACT: SCOBIS 636.530.7545



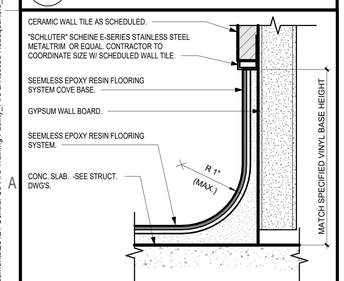
CERAMIC WALL TILE TO CERAMIC FLOOR TILE TRANSITION. "TR5"
D1 FULL SCALE



CARPET TO LVT FLOORING TRANSITION DETAIL "TR3"
C1 FULL SCALE



CERAMIC TILE PERIMITER TRANSITION DETAIL "TR1"
B1 FULL SCALE



EPOXY RESIN COVE BASE TRANSITION TO CER. WALL TILE DET.
A1 FULL SCALE

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Proposed:
CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE
360/340 ECOLOGY DRIVE ST. PETERS, MO 63376

No.	Revision	Date

FINISH SCHEDULE, FLOORING DETAILS

Project No. 23121
Sheet No. I102
Date 09/16/2025

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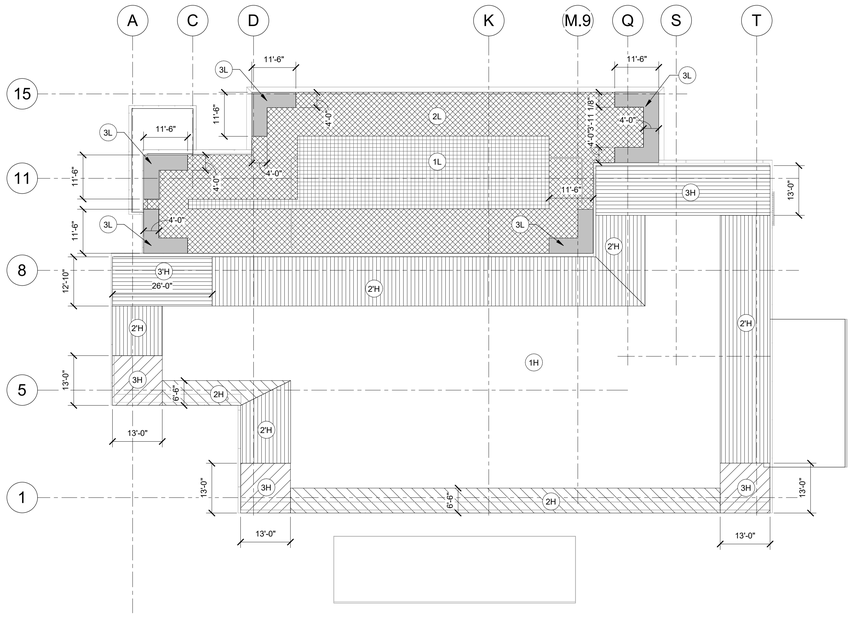
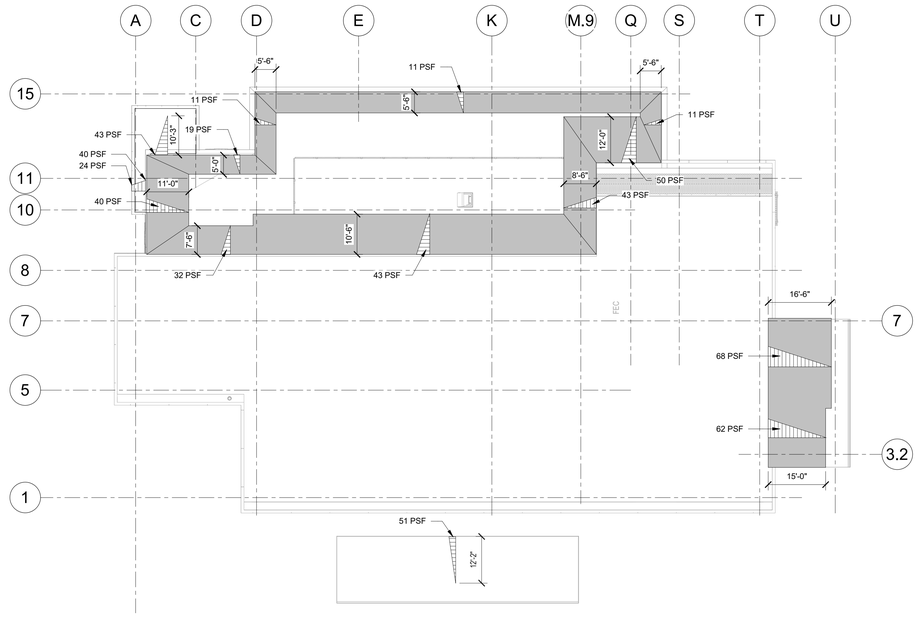


2 S111 WIND - COMPONENTS AND CLADDING DIAGRAM ADMINISTRATION BUILDING
1/16" = 1'-0"



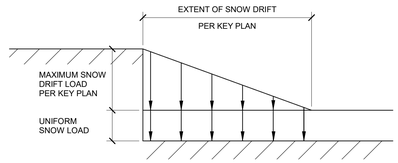
1 S111 SNOW DRIFT DIAGRAM ADMINISTRATION BUILDING
1/16" = 1'-0"

NOTES:
1. ▨ INDICATES SNOW DRIFT LOADING SEE 3 / S111 FOR DIAGRAM.
2. UNIFORM SNOW LOAD = 14 PSF.

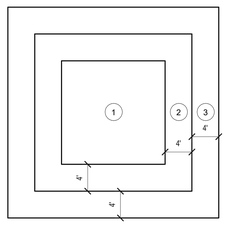
WIND UPLIFT SCHEDULE

LOCATION	GROSS UPLIFT SCHEDULE (PSF)							
	LOW ROOF			HIGH ROOF				
	1L	2L	3L	1H	2H	2'H	3H	3'H
AREA < 10 FT2	-48.3	-63.7	-86.8	-32.9	-38.0	-45.7	-50.8	-71.4
AREA = 50 FT2	-40.9	-54.2	-67.8	-32.9	-36.2	-43.9	-40.1	-53.4
AREA = 100 FT2	-37.7	-50.1	-59.6	-32.9	-35.4	-43.1	-35.4	-45.7
AREA = 500 SF	-30.3	-40.6	-40.6	-32.9	-35.4	-43.1	-35.4	-45.7

NOTES:
1. LINEAR INTERPOLATION IS PERMITTED.
2. ROOF COMPONENTS AND FASTENERS SHALL BE DESIGNED FOR THE WIND UPLIFT PRESSURES SHOWN IN THE TABLE AND DIAGRAM.
3. JOIST UPLIFT LOAD COMBINATION 0.6D+0.6W. "W" IS AS SHOWN ABOVE AND "D" = 13 PSF.
4. EXTENT DIMENSIONS ARE RESPECTIVE TO THE ROOF LEVEL.
5. (+) SIGN INDICATES FORCES ACTING TOWARD STRUCTURE.
6. (-) SIGN INDICATES FORCES ACTING AWAY FROM STRUCTURE.



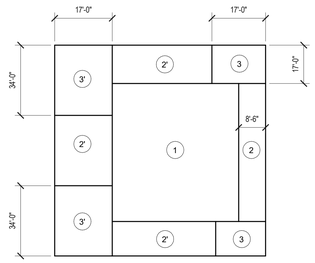
3 S111 SNOW DRIFT DIAGRAM DETAIL
3/4" = 1'-0"



LOCATION	1	2	3
<16SF	+48, -46	+71, -71	+95, -112
>16SF <64SF	+48, -46	+71, -71	+71, -71
>64SF	+48, -46	+48, -46	+48, -46

WIND-COMPONENTS AND CLADDING AT TRAINING TOWER ROOFS

NOTES:
1. LINERAR INTERPOLATION IS PERMITTED.
2. METAL ROOF AND FASTENERS SHALL BE DESIGNED FOR THE WIND UPLIFT AND DOWNWARD PRESSURES SHOWN IN THE TABLE AND DIAGRAM.
3. PRESSURES SHOWN ARE IN POUNDS PER SQUARE FOOT AND ARE ULTIMATE. MULTIPLY BY 0.6 FOR SERVICE LEVEL LOADS.
4. EXTENT DIMENSIONS ARE RESPECTIVE TO THE ROOF LEVEL.
5. (+) SIGN INDICATES FORCES ACTING TOWARD STRUCTURE.
6. (-) SIGN INDICATES FORCES ACTING AWAY FROM STRUCTURE.



LOCATION	1	2	2'	3	3'
AREA=10SF	+16, -34.1	+16,-39.4	+16, -47.4	+16, -52.7	+16, -74.1
AREA=50SF	+16, -34.1	+16, -37.6	+16, -45.6	+16, -41.6	+16, -55.4
AREA=100SF	+16, -34.1	+16, -36.8	+16, -44.7	+16, -36.8	+16, -47.4
AREA=500SF	+16, -34.1	+16, -36.8	+16, -44.7	+16, -36.8	+16, -47.4

WIND-COMPONENTS AND CLADDING AT MAINTENANCE & STORAGE FACILITY ROOFS

NOTES:
1. LINERAR INTERPOLATION IS PERMITTED.
2. METAL ROOF AND FASTENERS SHALL BE DESIGNED FOR THE WIND UPLIFT AND DOWNWARD PRESSURES SHOWN IN THE TABLE AND DIAGRAM.
3. PRESSURES SHOWN ARE IN POUNDS PER SQUARE FOOT AND ARE ULTIMATE. MULTIPLY BY 0.6 FOR SERVICE LEVEL LOADS.
4. EXTENT DIMENSIONS ARE RESPECTIVE TO THE ROOF LEVEL.
5. (+) SIGN INDICATES FORCES ACTING TOWARD STRUCTURE.
6. (-) SIGN INDICATES FORCES ACTING AWAY FROM STRUCTURE.

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Date: 2025.09.11 21:56:43-05'00'

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Proposed:
CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE
ST. PETERS, MO 63376
360/340 ECOLOGY DRIVE

No.	Date	Revision

PLAN DIAGRAMS AND DETAILS

Project No.
2400235

Sheet No.
S111

Date
09/16/2025

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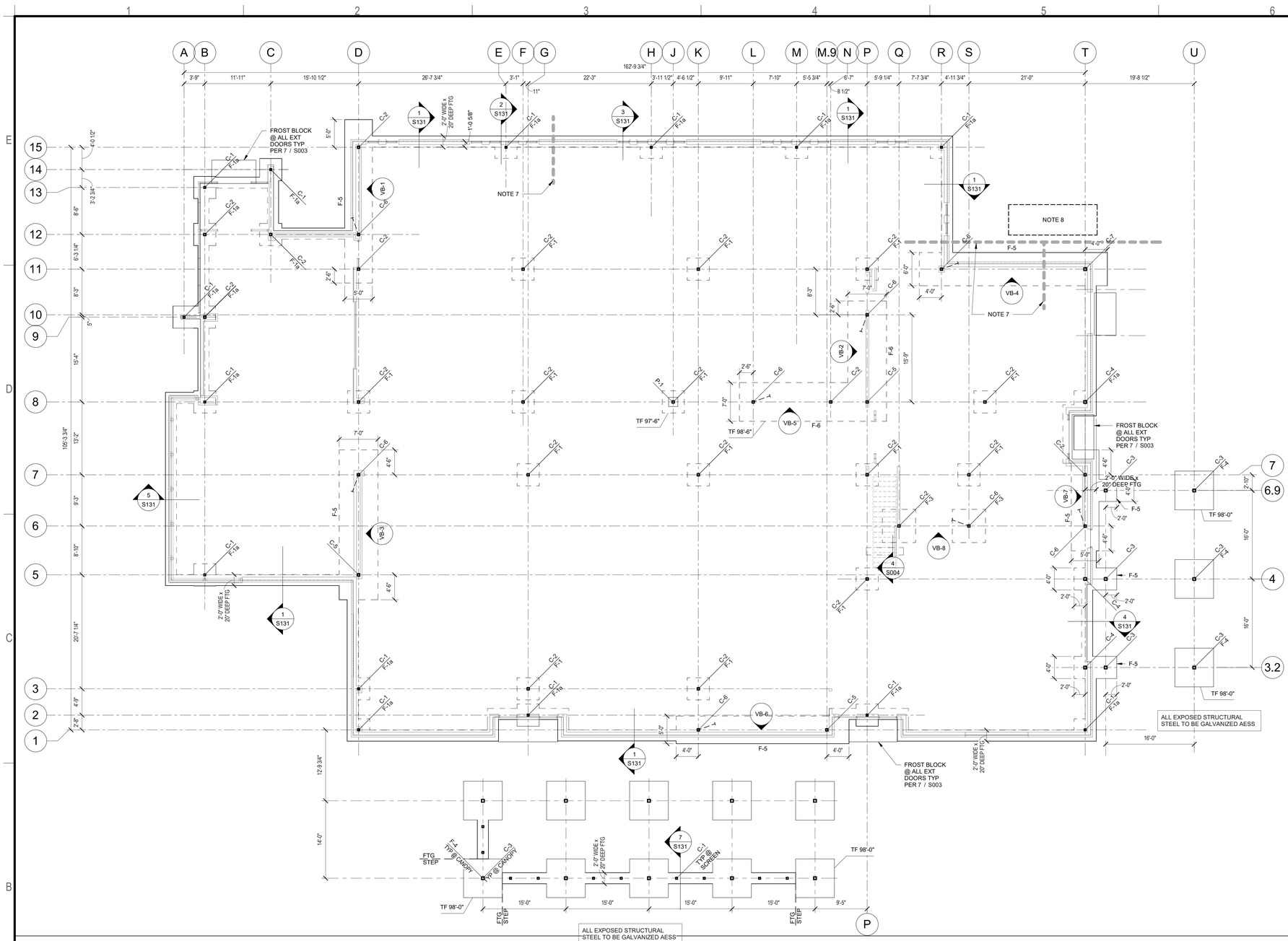


1 S121 FOUNDATION PLAN - ADMINISTRATION BUILDING
1/8" = 1'-0"

NOTES:
1. FINISHED FLOOR ELEVATION = 100'-0" (USGS 440.0') UNO.
2. FLOOR CONSTRUCTION TO BE A 4" CONC SLAB ON GROUND REINFORCED w/ 6x6-W2.1xW2.1 WWR ON 10 MIL VAPOR RETARDER, OVER 4" COMPACTED GRANULAR FILL (UNO).
3. TOP OF FOOTING EL = 99'-0" (UNO) EXTERIOR, TF EL = 99'-0" (UNO) INTERIOR.
4. COLUMN FOOTINGS ARE CENTERED EACH WAY ON CENTERLINES (UNO).
5. FOR GENERAL NOTES & TYPICAL DETAILS SEE SHEETS S101 THRU S107.
6. VB-X INDICATES VERTICAL BRACE. SEE SHEETS S501 & S502 FOR ELEVATIONS & DETAILS.
7. COORDINATE UTILITY LINE w/ FOOTING. REFER TO TYPICAL DETAILS.
8. 12" THICK GENERATOR PAD w/ #6 BARS @ 12" oc EW BOTTOM. COORD SIZE & LOCATION WITH MEP. PAD TO BE 12" MIN WIDER THAN GENERATOR FOOTPRINT EACH SIDE.

FOOTING SCHEDULE

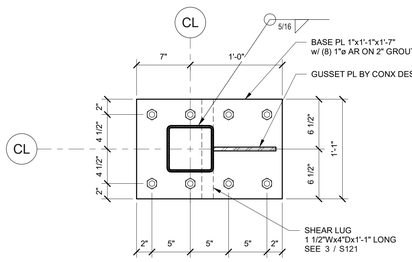
MARK	SIZE	REINF EA WAY (BOT UNO)	COMMENTS
F-1	4'-0" x 4'-0" x 12"	(4) #5	
F-1a	4'-0" x 4'-0" x 20"	(4) #6	
F-3	6'-0" x 6'-0" x 20"	(6) #6 T&B	
F-4	7'-0" x 7'-0" x 20"	(7) #6 T&B	
F-5	20" THICK x SEE PLAN	#5 @ 12"oc T&B	
F-6	24" THICK x SEE PLAN	#7 @ 12"oc T&B	

CONCRETE PILASTER SCHEDULE

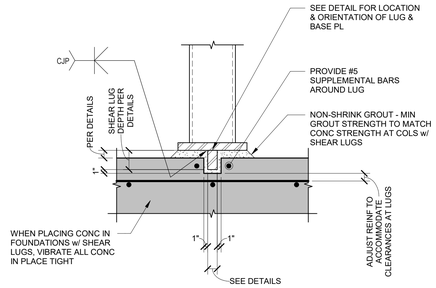
MARK	SIZE	VERT REINF	TIES - UNO	REMARKS
P-1	20 X 20	(8) #8	(3) #4 @ 4" oc TOP, BAL @ 12" oc	SEE DETAIL 6/S131

STEEL COLUMN SCHEDULE

MARK	SIZE	BASE PLATE	ANCHOR BOLTS	REMARKS
C-1	HSS4X4X5/16	3/4" x 10" x 0'-10"	(4) 3/4"ø - 9" MIN EMBED	
C-2	HSS5X5X3/8	3/4" x 11" x 0'-11"	(4) 3/4"ø - 9" MIN EMBED	
C-3	HSS6X6X3/8	3/4" x 14" x 1'-2"	(4) 1"ø - 12" MIN EMBED	
C-4	HSS6X6X3/8	3/4" x 12" x 1'-0"	(4) 3/4"ø - 9" MIN EMBED	
C-5	HSS5X5X3/8	1" x 11" x 0'-11"	(4) 3/4"ø - 12" MIN EMBED	
C-6	HSS5X5X3/8	1" x 13" x 1'-7"	(8) 1"ø GR55 - 17" MIN EMBED	SEE 2/S121 & 3/S121
C-7	HSS6X6X3/8	1" x 12" x1'-0"	(4) 3/4"ø - 12" MIN EMBED	



2 S121 BASE PLATE
1 1/2" = 1'-0"



3 S121 TYPICAL SHEAR LUG DETAIL
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Proposed:
CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE
360/340 ECOLOGY DRIVE
ST. PETERS, MO 63376

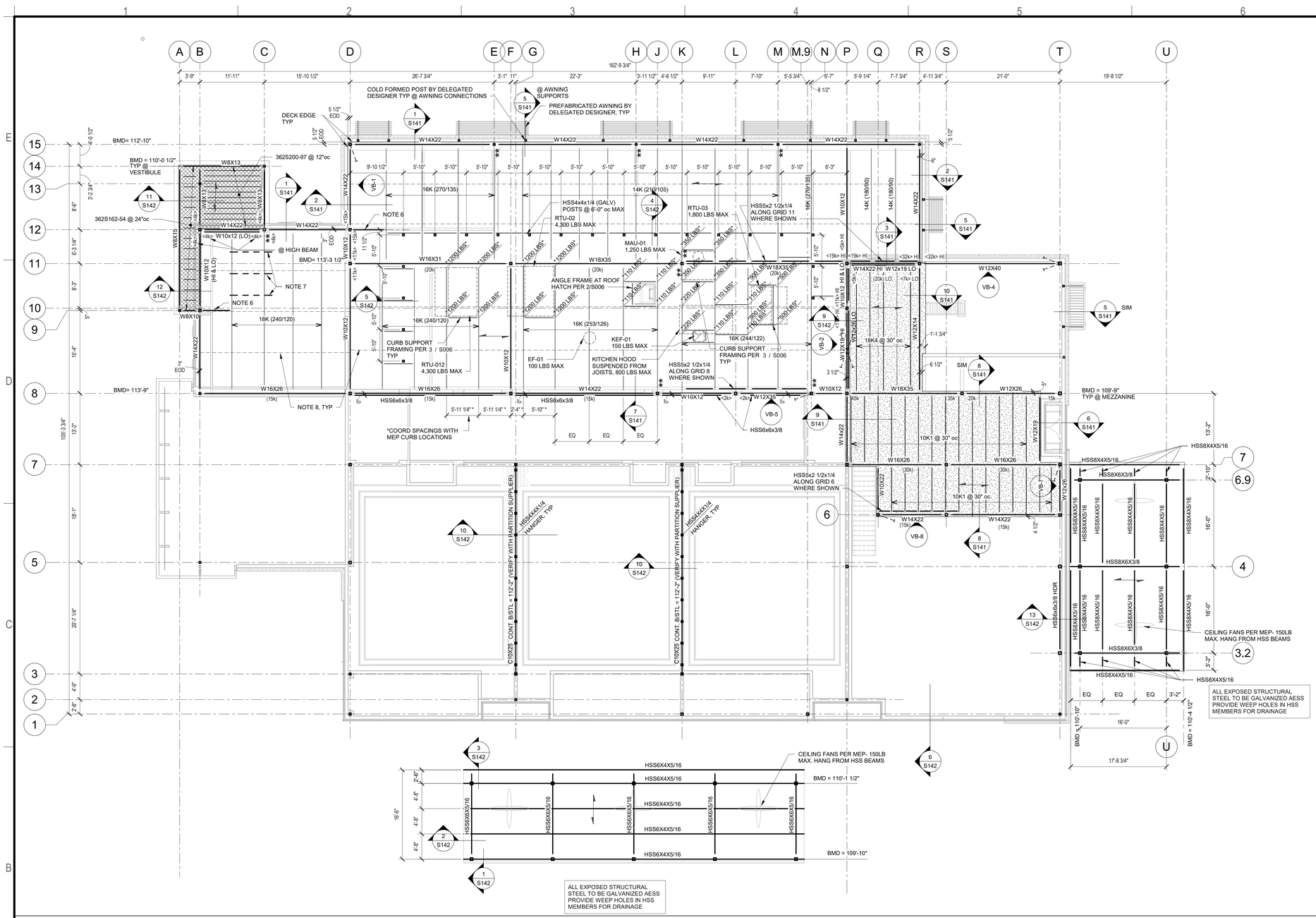
No.	Date	Revision

FOUNDATION PLAN

Project No.
2400235

Sheet No.
S121

Date
09/16/2025



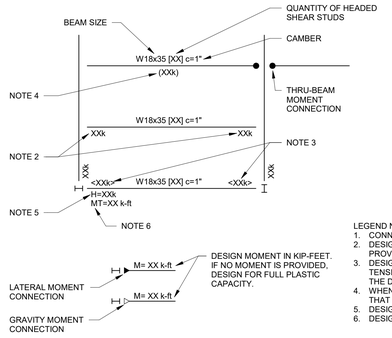
1 S122 LOW ROOF FRAMING PLAN - ADMINISTRATION BUILDING
1/8" = 1'-0"

NOTES:
1. BOTTOM OF METAL DECK EL (BMD) VARIES, SEE PLAN.
2. ROOF DECK TO BE 1 1/2" x 20 GA WIDE RIB METAL DECK. SEE GENERAL NOTES FOR ATTACHMENT TO SUPPORTING STRUCTURE.
3. ALL ROOF OPENINGS TO RECEIVE ANGLE FRAME PER TYPICAL DETAILS. SOME ROOF OPENINGS MAY NOT BE SHOWN ON STRUCTURAL DRAWINGS. VERIFY SIZE & LOCATION OF ALL OPENINGS w/ MECH CONTRACTOR.
4. VB-X INDICATES VERTICAL BRACE. SEE SHEET S151 & S152 FOR ELEVATIONS & DETAILS.
5. FOR GENERAL NOTES & TYPICAL DETAILS SEE SHEETS S001 THRU S008.
6. PROVIDE L6x6x5/16, COPE VERTICAL LEG AS REQUIRED TO BEAR ON BEAM, WELD OR HILTI FASTEN DECK TO ANGLE @ 6" oc.
7. WHERE INDICATED, ALIGN JOIST WEBS FOR DUCTS PASSING THRU. COORD w/ MEP
8. INDICATES ANTICIPATED BRIDGING LINES. FINAL DESIGN BY JOIST MFR.

PLAN SYMBOL ITEMS

- INDICATES SPAN DIRECTION OF DECK.
- INDICATES BEAM BOTTOM FLANGE BRACE KICKER PER TYPICAL DETAIL
- ** INDICATES STEEL TIE JOIST PER TYPICAL DETAIL
- INDICATES 2.5" NWC ON 26 GA .6C FORM DECK (3" TOTAL THICKNESS)
- INDICATES DIAGONAL BRACE LOCATION. SEE SHEETS S501 & S502 FOR ELEVATIONS & DETAILS.
- INDICATES ROOF TO BE 22 GA .6C FORM DECK
- "XXX LBS" INDICATES SERVICE LOAD ADDED TO JOIST DESIGN. COORDINATE LOCATIONS WITH MEP WHERE REQUIRED.

STEEL BEAM LEGEND



LEGEND NOTES:
1. CONNECTION DESIGN LOADS ARE FACTORED (LRFD) AS PROVIDED IN GENERAL NOTES.
2. DESIGN BEAM END REACTIONS IN KIPS FOR CONNECTION DESIGN. IF NO REACTION IS PROVIDED, DESIGN CONNECTION FOR MINIMUM REACTION PROVIDED IN GENERAL NOTES.
3. DESIGN AXIAL LOAD IN KIPS FOR DRAG CONNECTION DESIGN, COMPRESSION AND TENSION. DESIGN AXIAL LOAD IS IN ADDITION TO OTHER DESIGN REACTIONS SHOWN ON THE DRAWINGS.
4. WHEN DESIGN BEAM REACTION IS NOTED ONLY ONCE IN PARENTHESES THUS (XXk), USE THAT SAME DESIGN REACTION FOR BOTH ENDS.
5. DESIGN HORIZONTAL END REACTION PERPENDICULAR TO SPAN OF BEAM IN KIPS.
6. DESIGN TORSIONAL END REACTION IN KIP-FEET.

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380/340 ECOLOGY DRIVE

No.	Revision	Date

LOW ROOF FRAMING PLAN

Project No.
2400235

Sheet No.
S122

Date
09/16/2025

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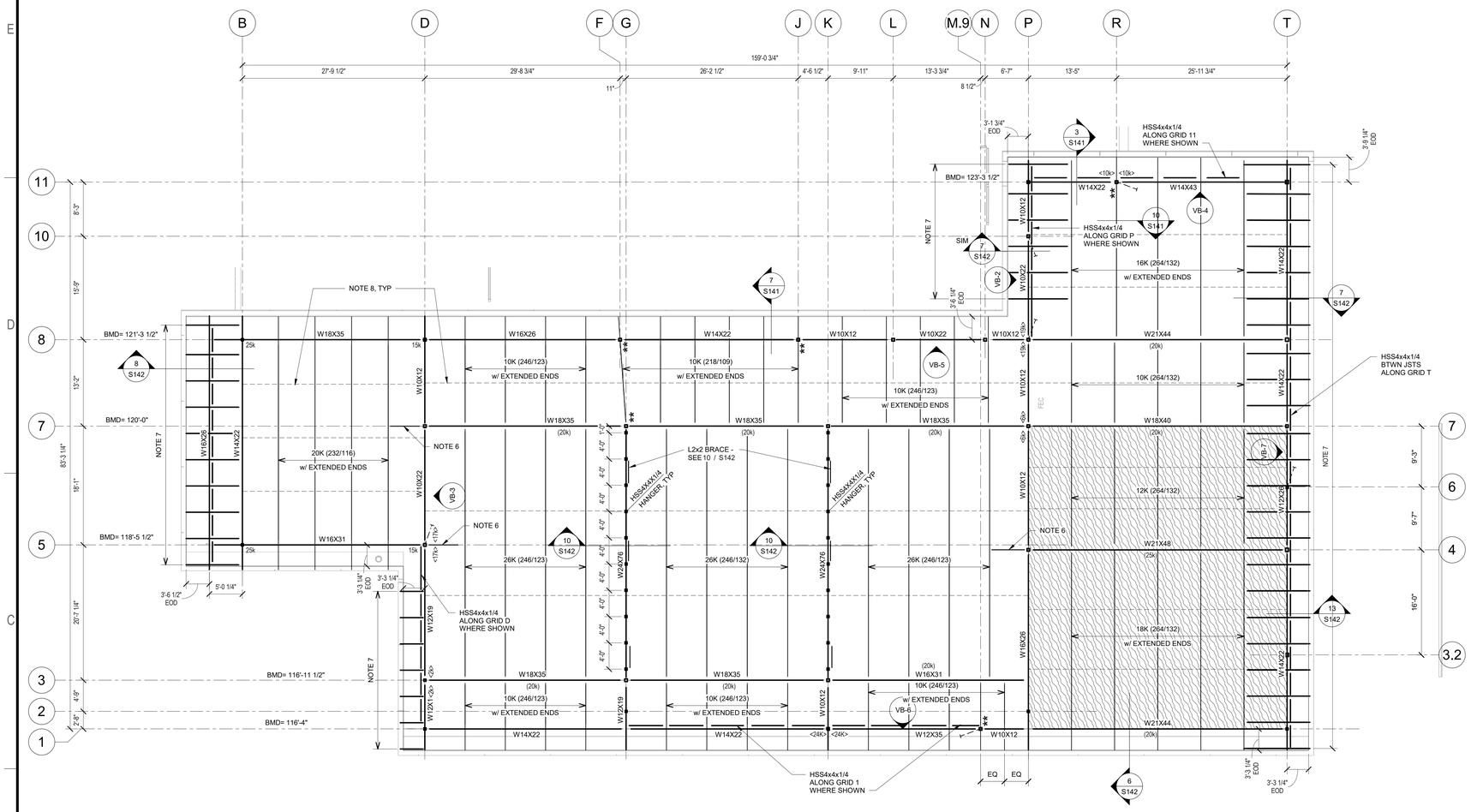


HIGH ROOF FRAMING PLAN - ADMINISTRATION BUILDING

1/8" = 1'-0"

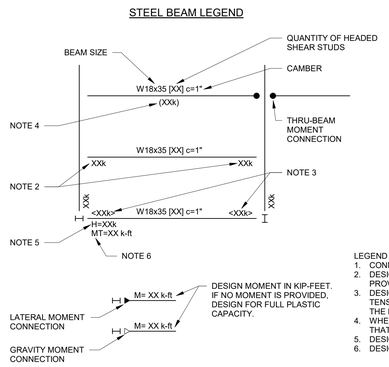
NOTES:

1. BOTTOM OF METAL DECK EL (BMD) VARIES, SEE PLAN. JOISTS TO HAVE 4" SEATS AT HIGH SLOPE ROOF.
2. ROOF DECK TO BE 1 1/2" x 20 GA WIDE RIB METAL DECK. SEE GENERAL NOTES FOR ATTACHMENT TO SUPPORTING STRUCTURE.
3. ALL ROOF OPENINGS TO RECEIVE ANGLE FRAME PER TYPICAL DETAILS. SOME ROOF OPENINGS MAY NOT BE SHOWN ON STRUCTURAL DRAWINGS. VERIFY SIZE & LOCATION OF ALL OPENINGS w/ MECH CONTRACTOR.
4. VB-X INDICATES VERTICAL BRACE. SEE SHEET S151 & S152 FOR ELEVATIONS & DETAILS.
5. FOR GENERAL NOTES & TYPICAL DETAILS SEE SHEETS S001 THRU S008.
6. PROVIDE L6x6x5/16. COPE VERTICAL LEG AS REQUIRED TO BEAR ON BEAM, WELD OR HILTI FASTEN DECK TO ANGLE @ 6" oc.
7. PROVIDE 4 IN DEEP JOIST SUBSTITUTES @ 4'-0" oc MAX. Fy=50ksi, MIN I=1,802 IN^4.
8. INDICATES ANTICIPATED BRIDGING LINES. FINAL DESIGN BY JOIST MFR.

PLAN SYMBOL ITEMS

- INDICATES SPAN DIRECTION OF DECK.
- INDICATES BEAM BOTTOM FLANGE BRACE KICKER PER TYPICAL DETAIL
- ** INDICATES STEEL TIE JOIST PER TYPICAL DETAIL
- INDICATES DIAGONAL BRACE LOCATION. SEE SHEETS S501 & S502 FOR ELEVATIONS & DETAILS.
- JOISTS IN INDICATED AREA TO BE DESIGNED FOR 300LB ADDED SERVICE LIVE LOAD SUSPENDED ANYWHERE ON JOIST BOTTOM CHORDS

STEEL BEAM LEGEND



LEGEND NOTES:

1. CONNECTION DESIGN LOADS ARE FACTORED (LRFD) AS PROVIDED IN GENERAL NOTES.
2. DESIGN BEAM END REACTIONS IN KIPS FOR CONNECTION DESIGN. IF NO REACTION IS PROVIDED, DESIGN CONNECTION FOR MINIMUM REACTION PROVIDED IN GENERAL NOTES.
3. DESIGN AXIAL LOAD IN KIPS FOR DRAG CONNECTION DESIGN, COMPRESSION AND TENSION. DESIGN AXIAL LOAD IS IN ADDITION TO OTHER DESIGN REACTIONS SHOWN ON THE DRAWINGS.
4. WHEN DESIGN BEAM REACTION IS NOTED ONLY ONCE IN PARENTHESES THUS (XXk), USE THAT SAME DESIGN REACTION FOR BOTH ENDS.
5. DESIGN HORIZONTAL END REACTION PERPENDICULAR TO SPAN OF BEAM IN KIPS.
6. DESIGN TORSIONAL END REACTION IN KIP-FEET.

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360/340 ECOLOGY DRIVE

No.	Date	Revision

HIGH ROOF FRAMING PLAN

Project No.
2400235

Sheet No.
S123

Date
09/16/2025

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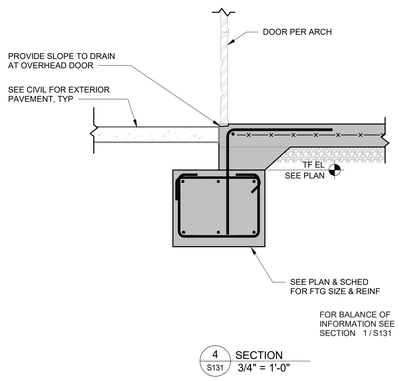
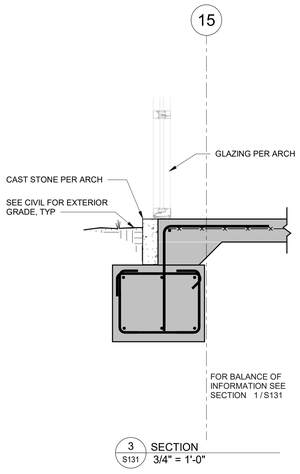
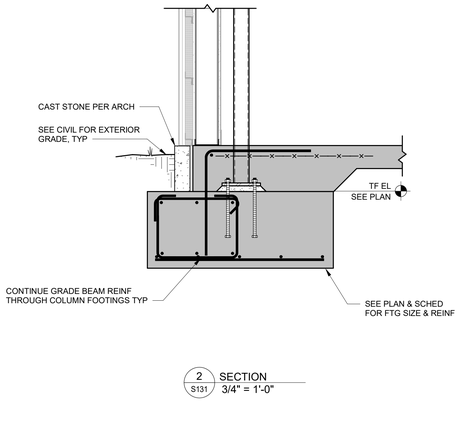


4 S131 SECTION 3/4" = 1'-0"



3 S131 SECTION 3/4" = 1'-0"



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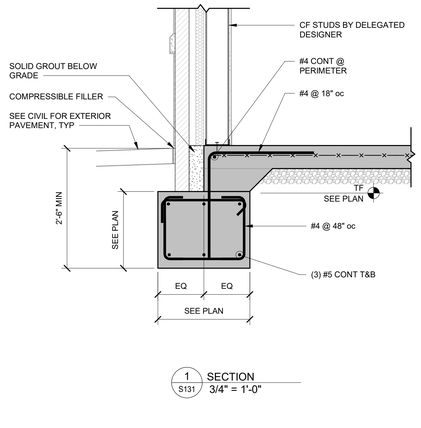

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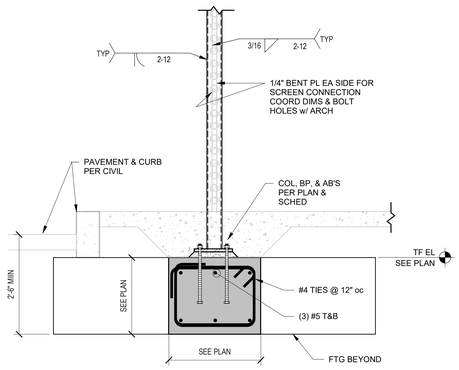

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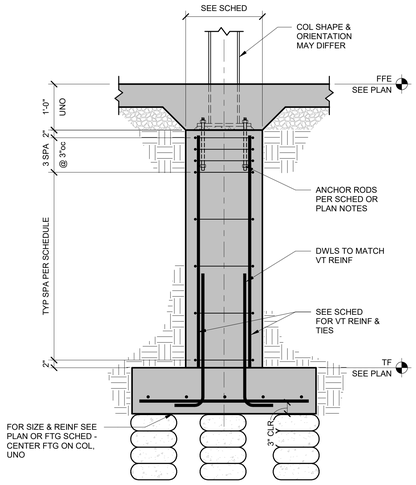
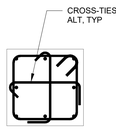
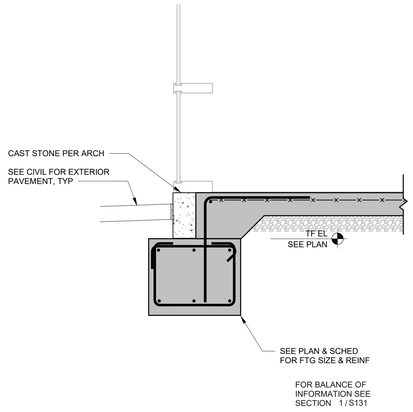


EXCAVATE TO SUITABLE BEARING STRATUM AND PROVIDE GROUND IMPROVEMENT PER GEOTECHNICAL REPORT DESIGNED FOR BEARING CAPACITY IN STRUCTURAL GENERAL NOTES



6 S131 PEDESTAL DETAIL 3/4" = 1'-0"



5 S131 SECTION 3/4" = 1'-0"

SCALE: 3" = 1'-0" 0 3" 6" 1'
SCALE: 1 1/2" = 1'-0" 0 3" 6" 1' 2'
SCALE: 1" = 1'-0" 0 6" 1' 2'
SCALE: 3/4" = 1'-0" 0 1' 2' 3'
SCALE: 1/2" = 1'-0" 0 1' 2' 4'
SCALE: 3/8" = 1'-0" 0 2' 4' 6'
SCALE: 1/4" = 1'-0" 0 2' 4' 8'
SCALE: 1/8" = 1'-0" 0 4' 8' 16'
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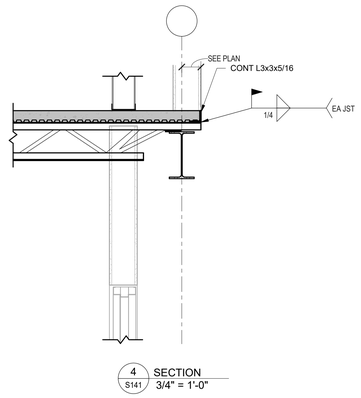
No.	Date	Revision

FOUNDATION SECTIONS & DETAILS

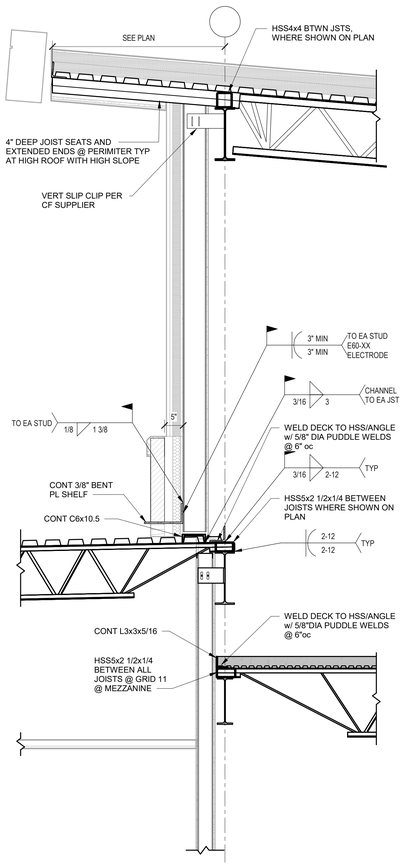
Project No.
2400235

Sheet No.
S131

Date
09/16/2025



4 SECTION S141 3/4" = 1'-0"



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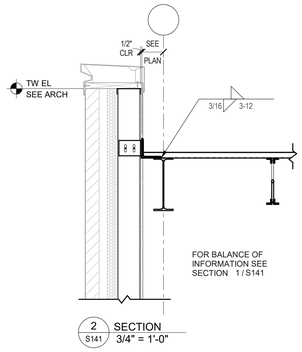

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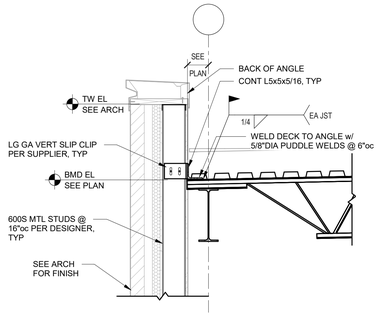

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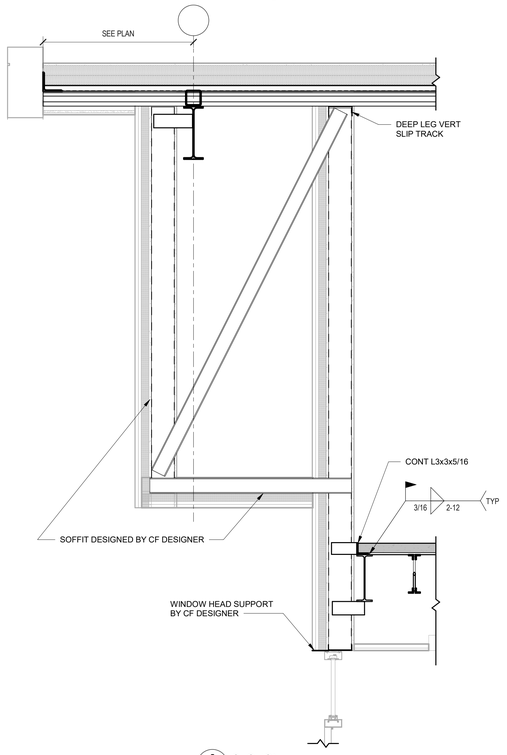

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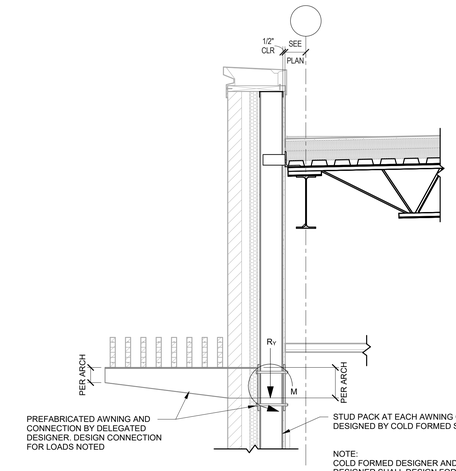

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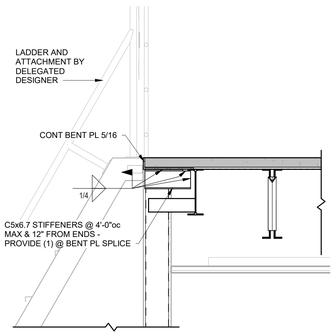

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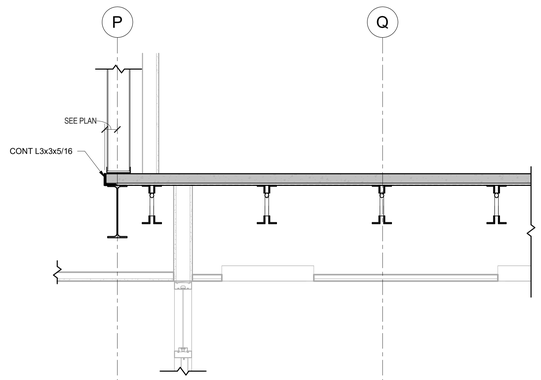

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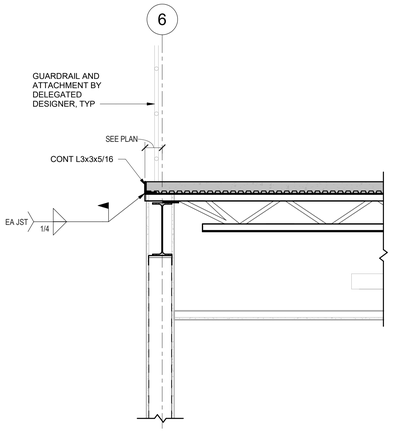

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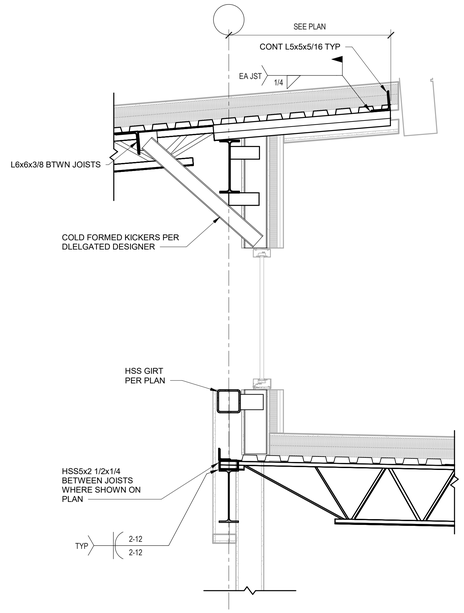

7 SECTION S141 3/4" = 1'-0"

SCALE: 3" = 1'-0"
SCALE: 1 1/2" = 1'-0"
SCALE: 1" = 1'-0"
SCALE: 3/4" = 1'-0"
SCALE: 1/2" = 1'-0"
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Proposed:
CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE
ST. PETERS, MO 63376
360/340 ECOLOGY DRIVE

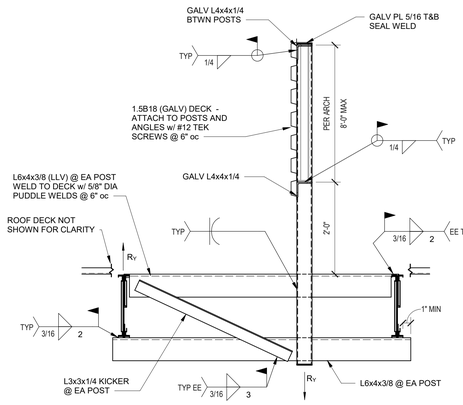
No.	Revision	Date

FRAMING SECTIONS & DETAILS

Project No.
2400235

Sheet No.
S141

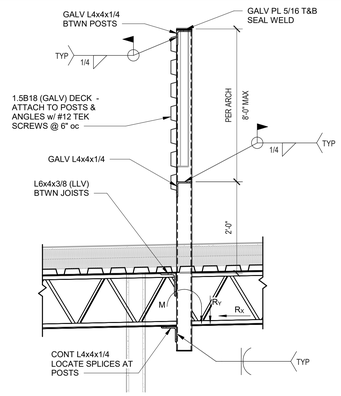
Date
09/16/2025



NOTE:
JOIST DESIGNER SHALL DESIGN FOR
POST LOADS (SERVICE) AS SHOWN:

DEAD: R_V = 1k
WIND: R_V = +/-1.5k

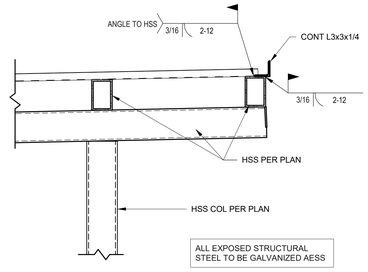
5 S142 SECTION 3/4" = 1'-0"



NOTE:
JOIST DESIGNER SHALL DESIGN FOR
POST LOADS (SERVICE) AS SHOWN:

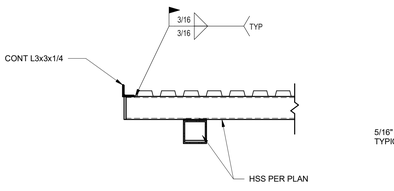
DEAD: R_V = 1k
WIND: R_V = +/-1.5k
M = +/- 6.5k-ft

4 S142 SECTION 3/4" = 1'-0"



ALL EXPOSED STRUCTURAL
STEEL TO BE GALVANIZED AESS

3 S142 SECTION 1" = 1'-0"



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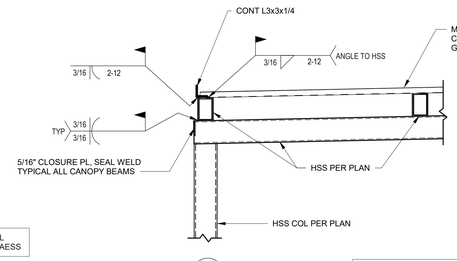

ALL EXPOSED STRUCTURAL
STEEL TO BE GALVANIZED AESS

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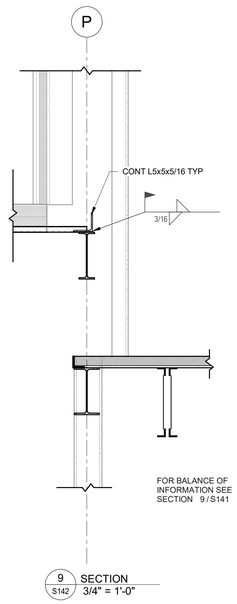
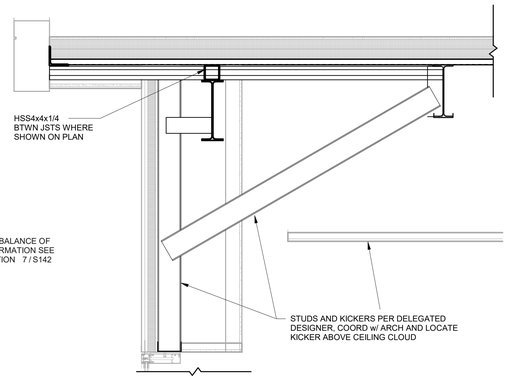


FOR BALANCE OF
INFORMATION SEE
SECTION 9 / S141

9 S142 SECTION 3/4" = 1'-0"



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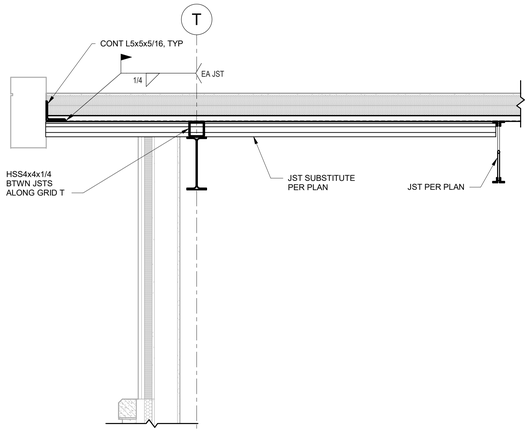

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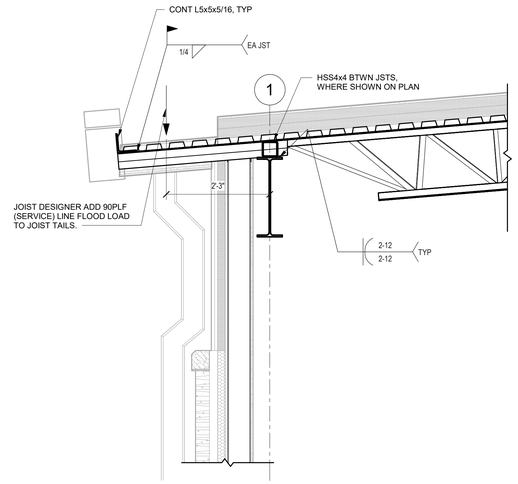

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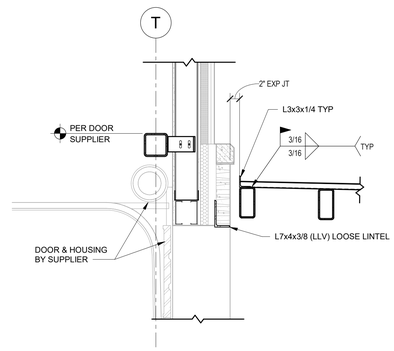

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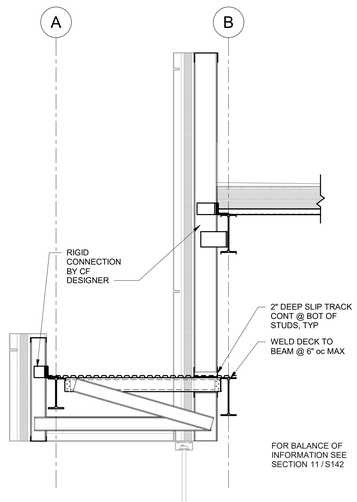

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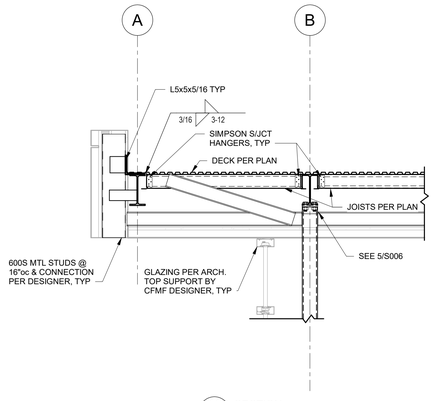

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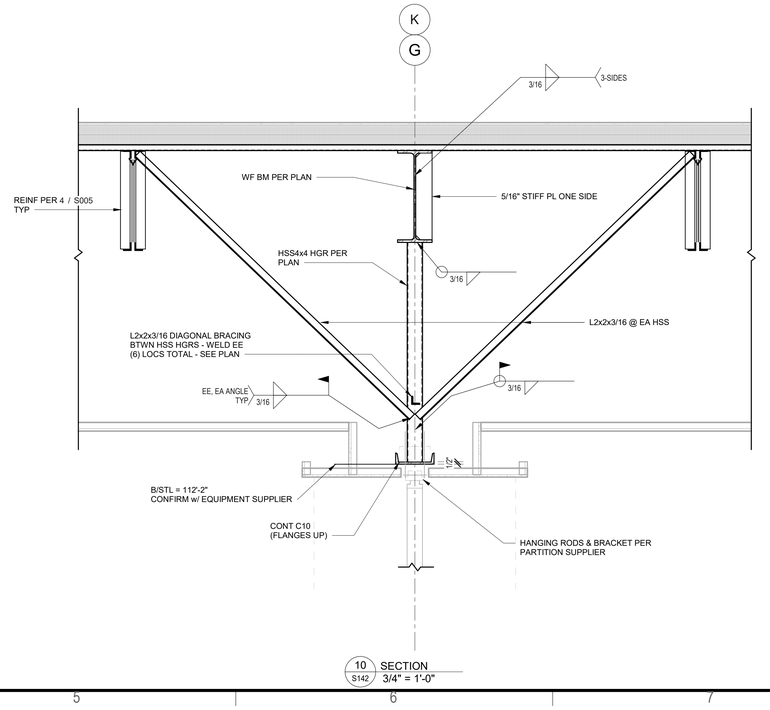

10 S142 SECTION 3/4" = 1'-0"

SCALE: 3" = 1'-0"
SCALE: 1 1/2" = 1'-0"
SCALE: 1" = 1'-0"
SCALE: 3/4" = 1'-0"
SCALE: 1/2" = 1'-0"
SCALE: 3/8" = 1'-0"
SCALE: 1/4" = 1'-0"
SCALE: 1/8" = 1'-0"
SCALE: 3/32" = 1'-0"
SCALE: 1/16" = 1'-0"

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ST. PETERS, MO 63376
3801340 ECOLOGY DRIVE

No.	Date	Revision

FRAMING SECTION & DETAILS

Project No.
2400235

Sheet No.
S142

Date
09/16/2025

SCALE: 1/16" = 1'-0" | SCALE: 3/32" = 1'-0" | SCALE: 1/8" = 1'-0" | SCALE: 1/4" = 1'-0" | SCALE: 3/8" = 1'-0" | SCALE: 1/2" = 1'-0" | SCALE: 3/4" = 1'-0" | SCALE: 1" = 1'-0" | SCALE: 1 1/2" = 1'-0" | SCALE: 3" = 1'-0"

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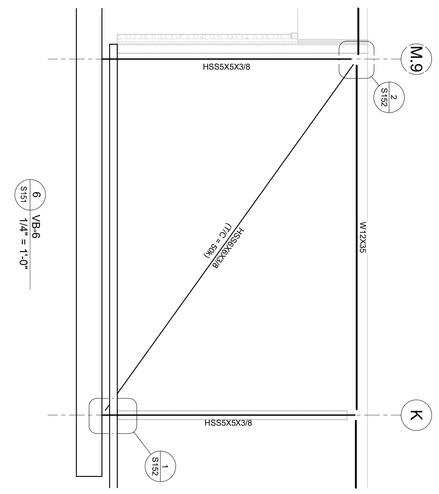

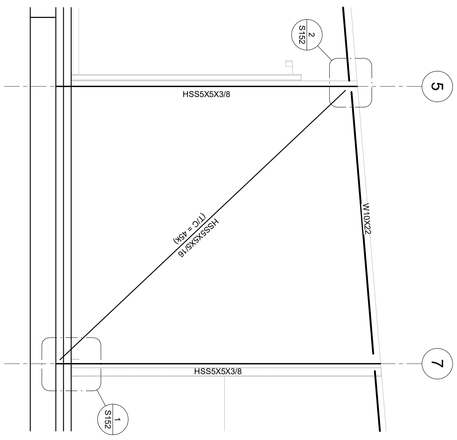

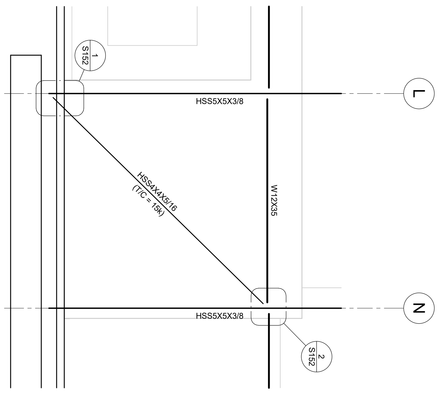

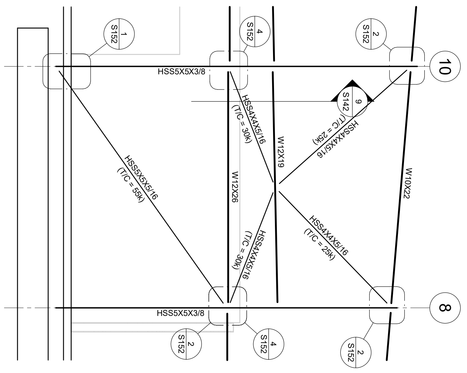

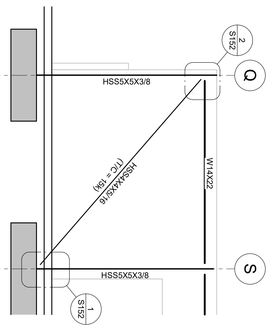

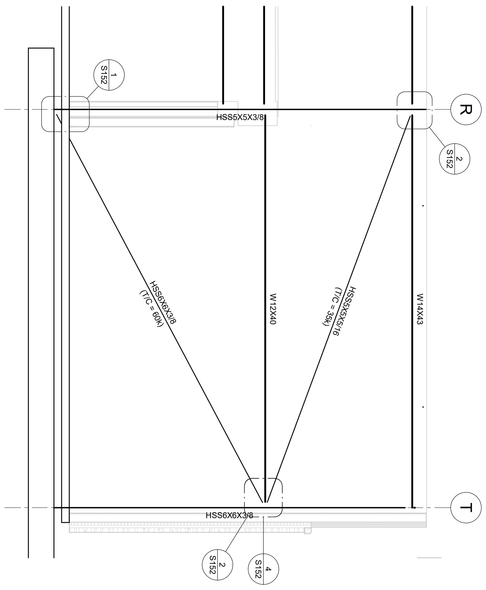

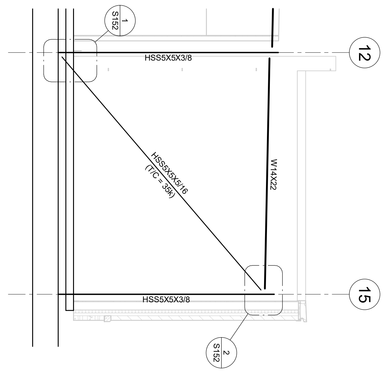

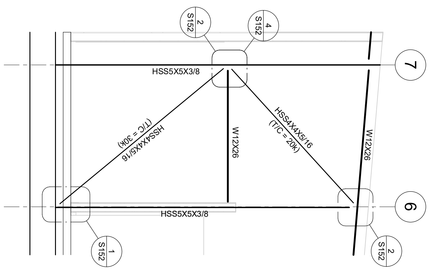

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No.	Date	Revision

Project No. 2400235

Date 09/16/2025

Sheet No. S151

VERTICAL BRACE ELEVATIONS

Proposed:

CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE

360/340 ECOLOGY DRIVE ST. PETERS, MO 63376

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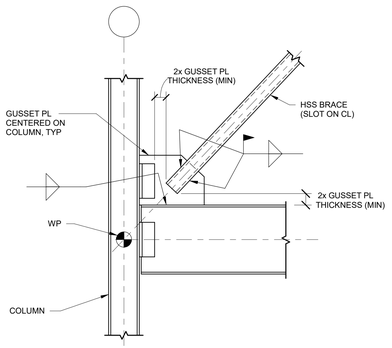
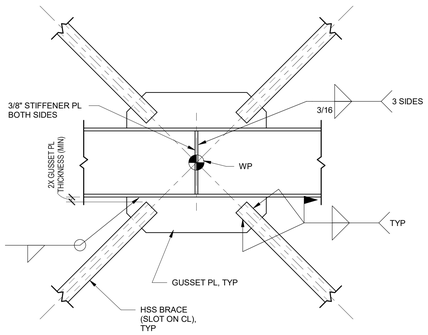
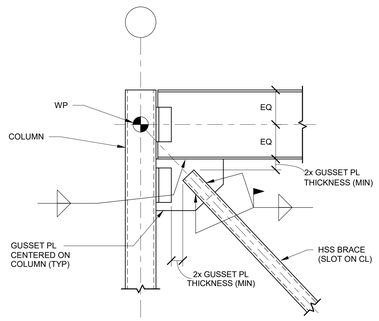


4 S152 VERTICAL BRACE MIDDLE CONNECTION DETAIL @ HSS COL
NTS



3 S152 VERTICAL BRACE AT BEAM DETAIL
3/4" = 1'-0"



2 S152 VERTICAL BRACE TOP CONNECTION DETAIL
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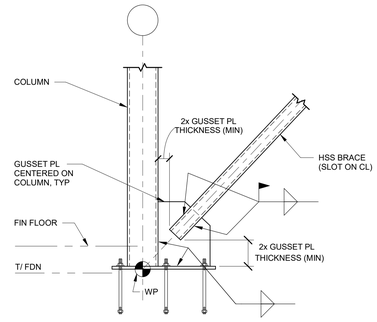
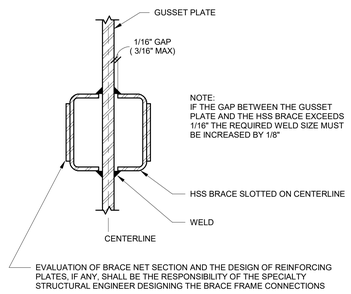
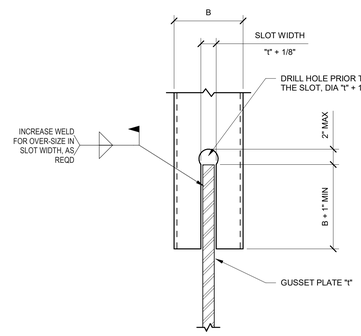


1 S152 VERTICAL BRACE BOTTOM CONNECTION DETAIL
NTS



6 S152 TYPICAL HSS BRACE SLOT AT GUSSET PLATE
NTS



5 S152 TYPICAL BRACE SLOT DETAIL
NTS

SEISMIC FORCE RESISTING SYSTEM GENERAL NOTES:

1. ALL BRACING AND DRAG STRUT CONNECTIONS TO BE DESIGNED BY STEEL FABRICATOR FOR ULTIMATE LOAD INDICATED.
2. VERTICAL BRACE FRAMES, BEAMS, COLUMNS, CONNECTIONS AND FOOTINGS ARE PART OF SEISMIC FORCE RESISTING SYSTEM. SEE PROJECT SPECIFICATIONS FOR SPECIAL INSPECTION AND QUALITY ASSURANCE REQUIREMENTS.
3. WELD FILLER METAL SHALL MEET MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LBS AT MINUS 20 DEGREES FAHRENHEIT AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION.
4. (C) INDICATES COMPRESSION FORCE IN BRACE.
   (T) INDICATES TENSION FORCE IN BRACE.
5. SEE COLUMN SCHEDULE FOR COLUMN, BASE PLATE, AND ANCHOR ROD SIZES.

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ST. PETERS, MO 63376
380/340 ECOLOGY DRIVE

No.	Date	Revision

VERTICAL BRACE DETAILS

Project No.
2400235

Sheet No.
S152

Date
09/16/2025

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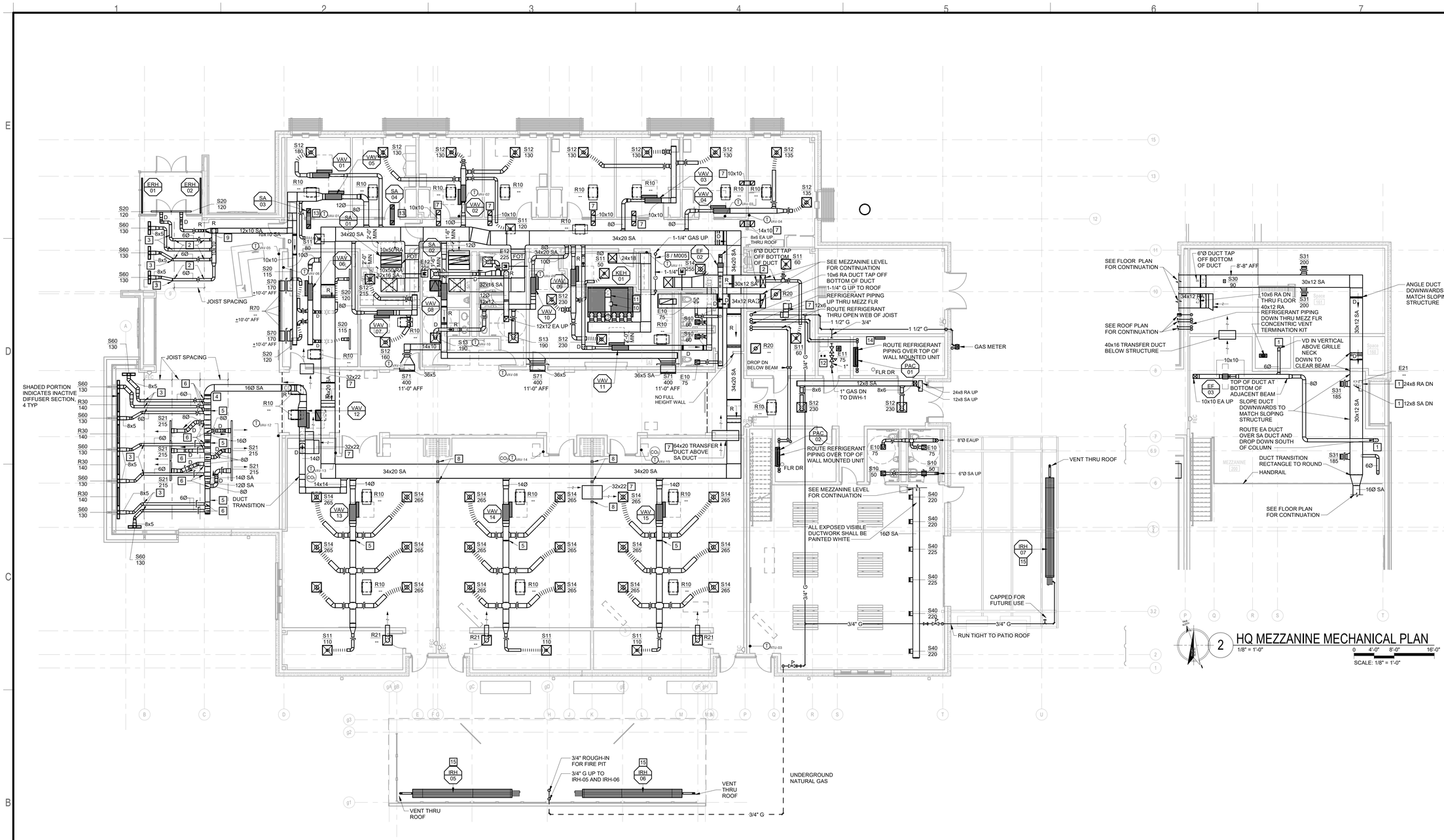

1 HQ MECHANICAL PLAN

1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0"

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

2 HQ MEZZANINE MECHANICAL PLAN

1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0"

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

M121 KEYED NOTES

#	
1	ALIGN VERTICAL DUCT DROP THROUGH MEZZANINE FLOOR AND BETWEEN JOIST SPACING BELOW.
2	ROUTE DUCT THROUGH OPEN WEB SPACING OF STEEL JOIST.
3	PROVIDE HARD DUCT CONNECTIONS BEYOND STEEL JOIST TO CEILING AIR DEVICE. ALL EXPOSED VISIBLE DUCTWORK SHALL BE PAINTED BLACK. ROUTING OF 8x5 DUCTWORK SHALL BE COORDINATED WITH STRUCTURAL KICKER MEMBERS.
4	THIS DUCT ELBOW SHALL BE ROLLED TO CREATE SLOPING DUCTWORK TO MATCH SLOPING STRUCTURE.
5	SLOPE DUCT DOWNWARDS TO MATCH SLOPING STRUCTURE, ROUTE DUCT BELOW STEEL JOIST.
6	PROVIDE HARD DUCT CONNECTIONS FROM BRANCH DUCT TEE TO CEILING AIR DEVICE.
7	PLENUM TRANSFER DUCT ABOVE CEILING, SEE PLANS FOR SIZE.
8	ROUTE DUCTWORK BETWEEN VERTICAL STEEL FRAMING MEMBERS SUPPORTING RETRACTABLE PARTITION.
9	ROUTE DUCT IN OPEN SPACE OF END SECTION OF STEEL JOIST.
10	PROVIDE MINIMUM 9.5" W x 9.75" H FIRE RATED GREASE DUCT ACCESS DOOR, KEES MANUFACTURER, CENTERED IN HORIZONTAL RUN.
11	PROVIDE GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL 'DW' ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL 'DW' IS LISTED TO UL-1978 AND IS INSTALLED USING 'V' CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL 'DW' DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURER'S INSTALLATION GUIDE.
12	3" CPVC VENT AND INLET PIPE FROM DWH-1 UP TO CONCENTRIC VENT KIT, SEE MEZZANINE PLAN FOR CONTINUATION.
13	PROVIDE PRICE INDUSTRIES "CROSS TALK U CONFIGURATION SOUND BOOTH - XTU". UNIT IS 10"W x 48"L x 7" THICK WITH 10x10 3" THICK COLLARS AT BOTH ENDS.
14	BUILDING MANAGEMENT SYSTEM CONTROL PANEL.
15	ANGLE HEATERS 30 DEGS.

GENERAL NOTES:

1. ALL EXPOSED VISIBLE DUCTWORK ON MEZZANINE LEVEL SHALL BE PAINTED WHITE.

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ST. PETERS, MO 63376
360/340 ECOLOGY DRIVE

No.	Date	Revision

HQ MECHANICAL PLAN

Project No.
23121

Sheet No.
M121

Date
09/16/2025

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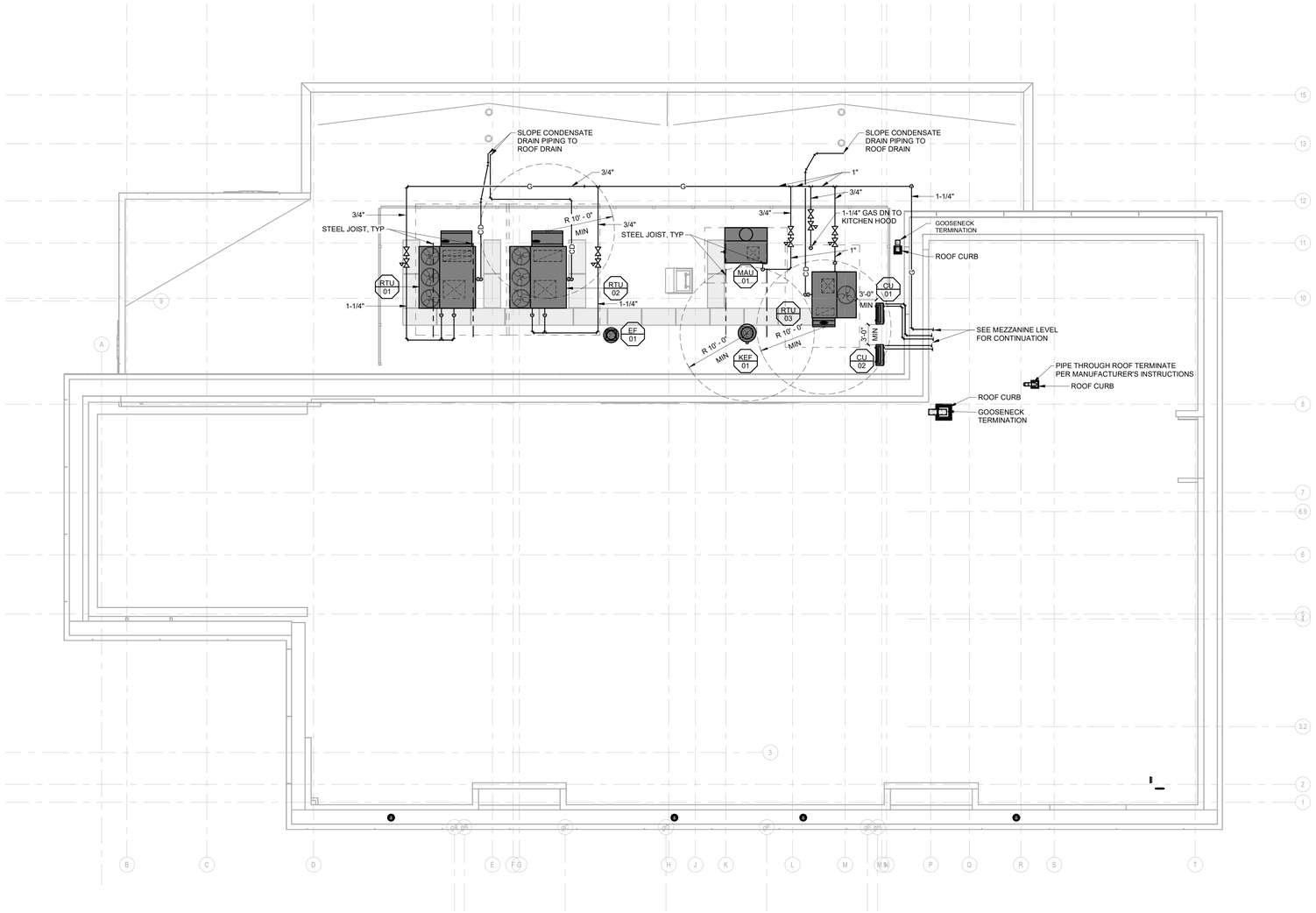

1 HQ MECHANICAL ROOF PLAN
1/8" = 1'-0"
0 4'-0" 8'-0" 16'-0"
SCALE: 1/8" = 1'-0"

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CERTIFICATE OF AUTHORITY: 000159
EXPIRATION DATE: DECEMBER 31, 2026

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360/340 ECOLOGY DRIVE ST. PETERS, MO 63376

No.	Date	Revision

HQ MECHANICAL ROOF PLAN

Project No. 23121

Sheet No. M122

Date 09/16/2025

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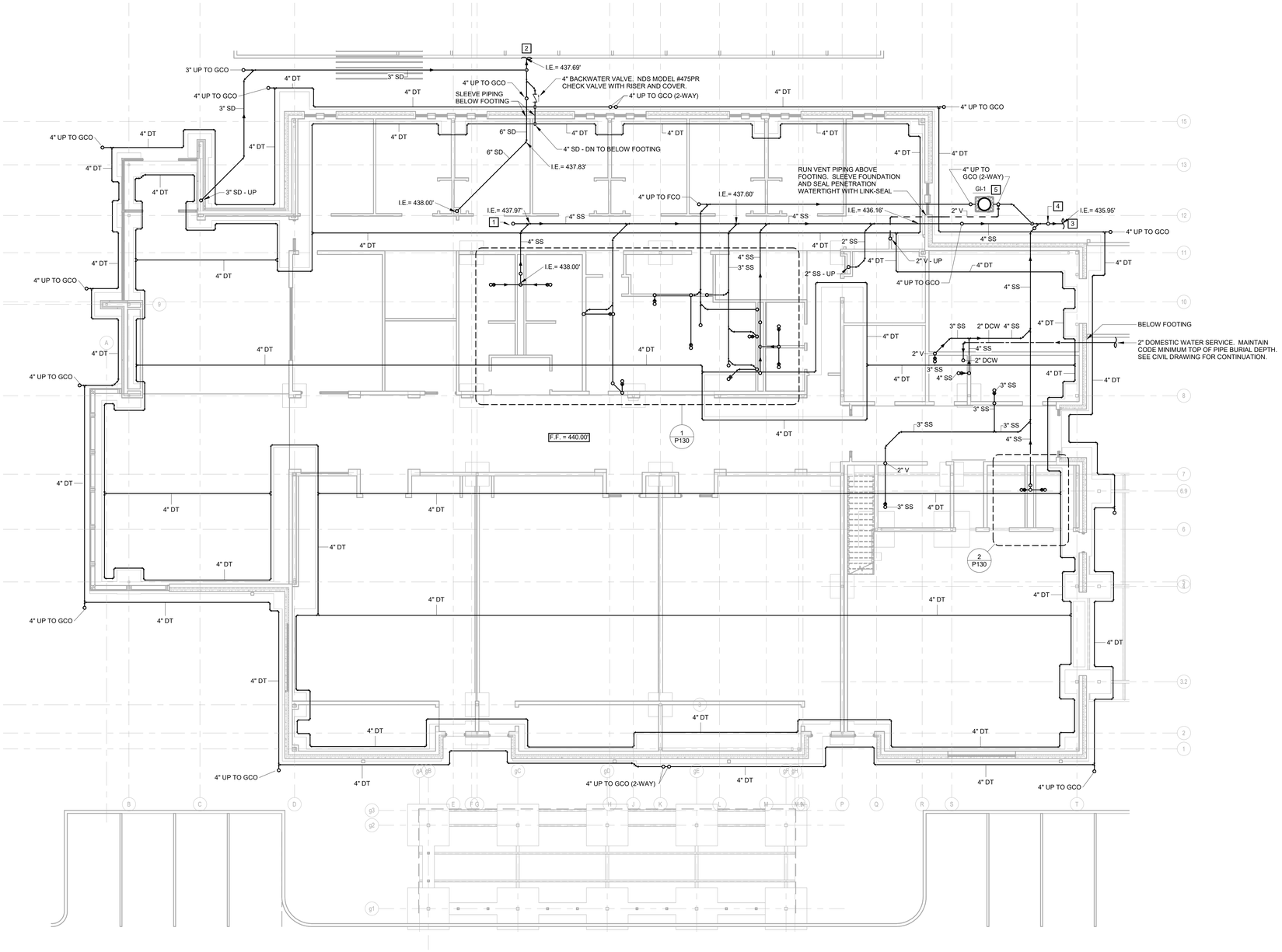
P120 KEYED NOTES

#	
1	4" SS UP TO FCO-1.
2	6" SD CONTINUED BY OTHERS. REFER TO CIVIL DRAWINGS.
3	4" SS CONTINUED BY OTHERS. REFER TO CIVIL DRAWING.
4	4" SS UP TO GCO-1.
5	GREASE TRAP SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDED INSTALLATION GUIDELINES.



1 HQ PLUMBING UNDERFLOOR PLAN
1/8" = 1'-0"
0 4'-0" 8'-0" 16'-0"
SCALE: 1/8" = 1'-0"

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360/340 ECOLOGY DRIVE ST. PETERS, MO 63376

No.	Date	Revision

HQ PLUMBING UNDERFLOOR PLAN

Project No. 23121

Sheet No. P120

Date 09/16/2025

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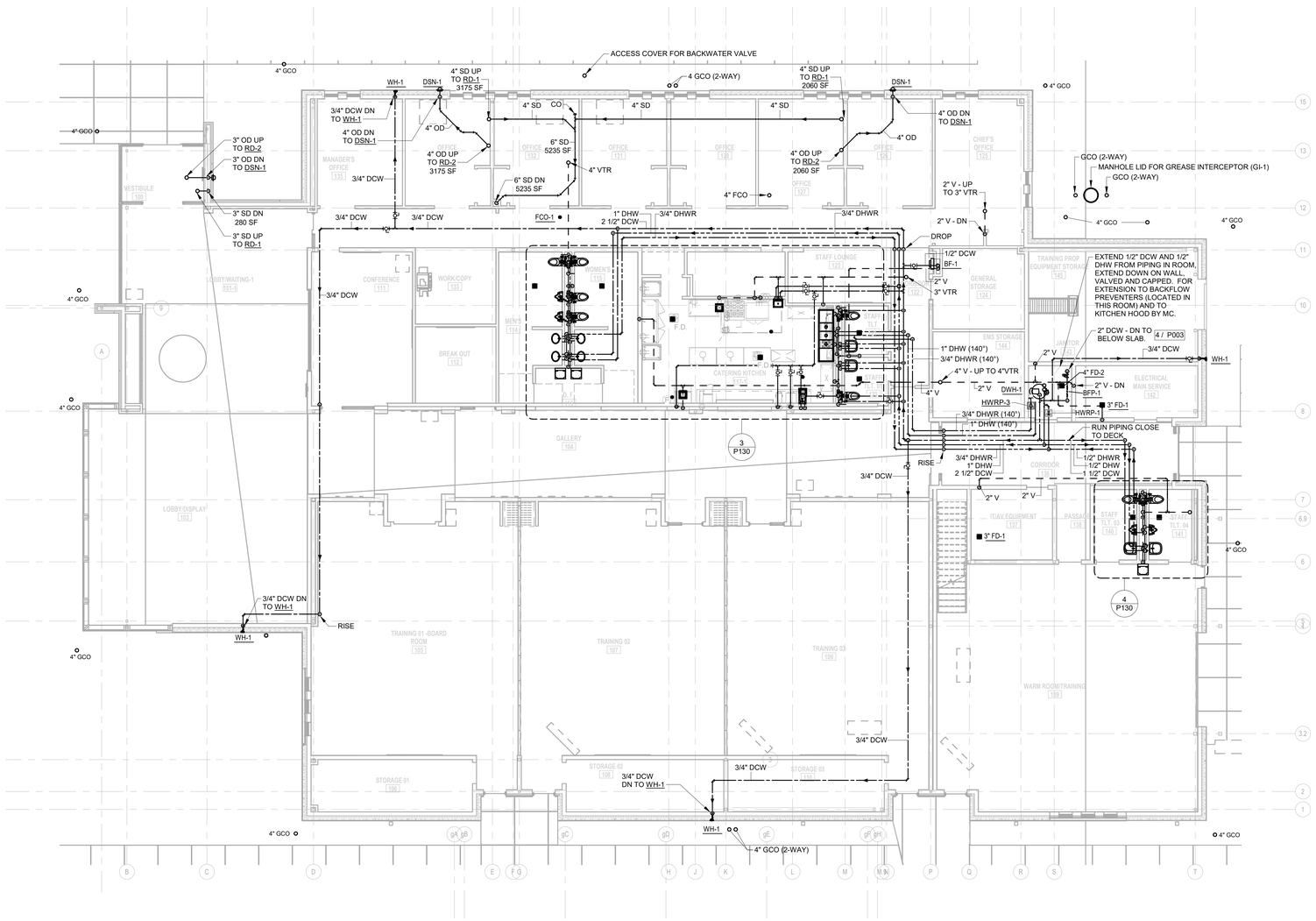

1 HQ PLUMBING PLAN
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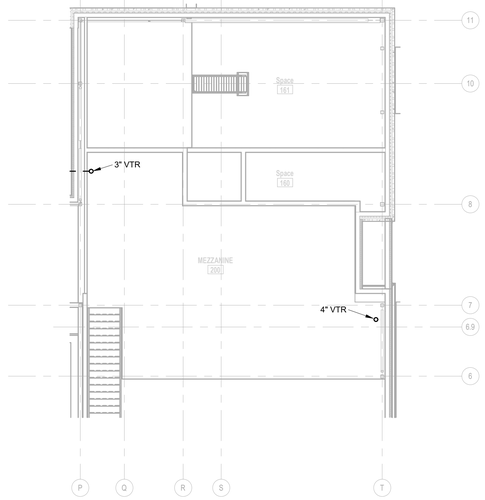
SCALE: 1/8" = 1'-0"



2 HQ MEZZANINE PLUMBING PLAN
1/8" = 1'-0"
0 4'-0" 8'-0" 16'-0"
SCALE: 1/8" = 1'-0"

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No.	Date	Revision

HQ PLUMBING PLAN

Project No. 23121

Sheet No. P121

Date 09/16/2025

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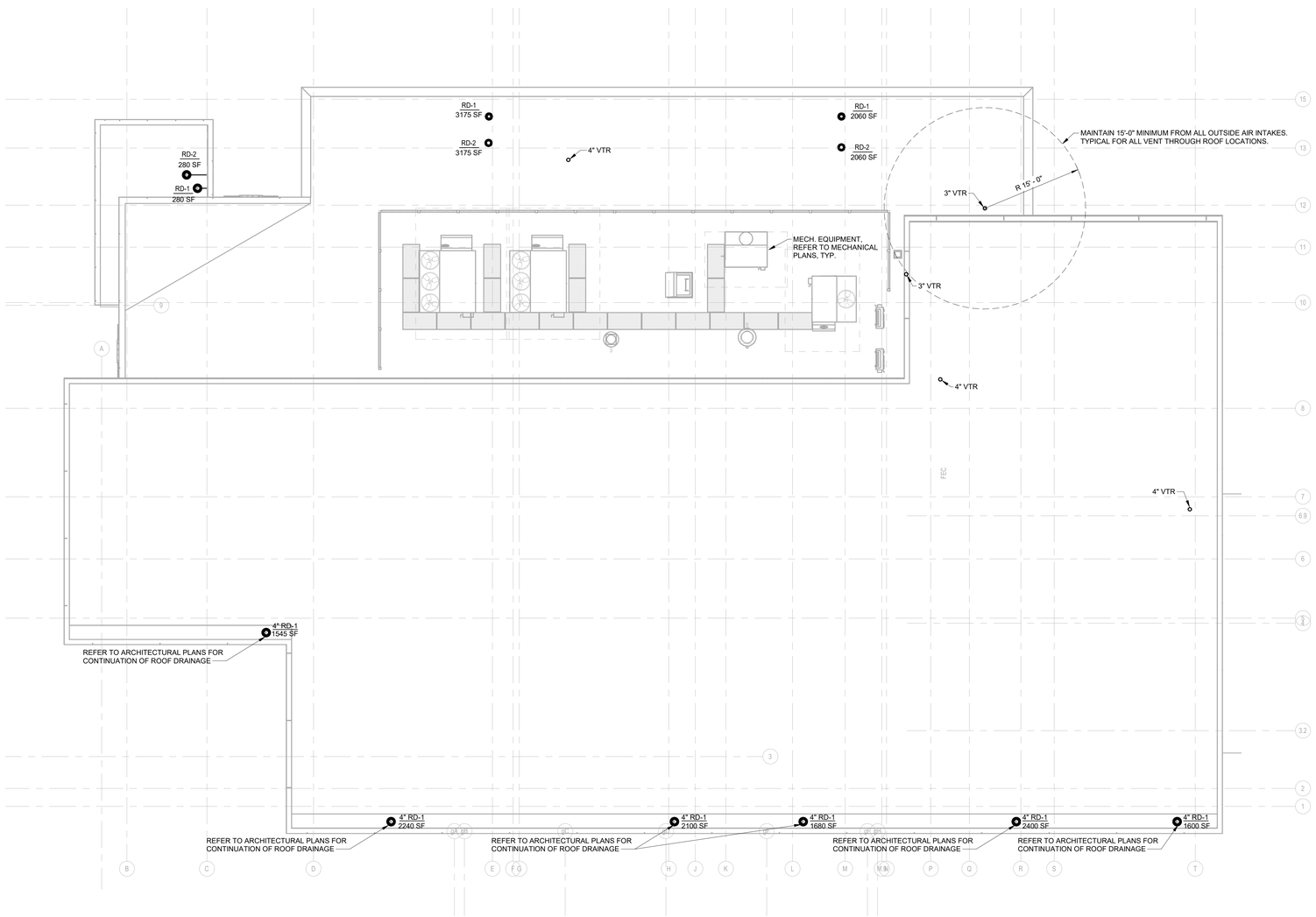

1 HQ PLUMBING ROOF PLAN
1/8" = 1'-0"
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SCALE: 1/8" = 1'-0"

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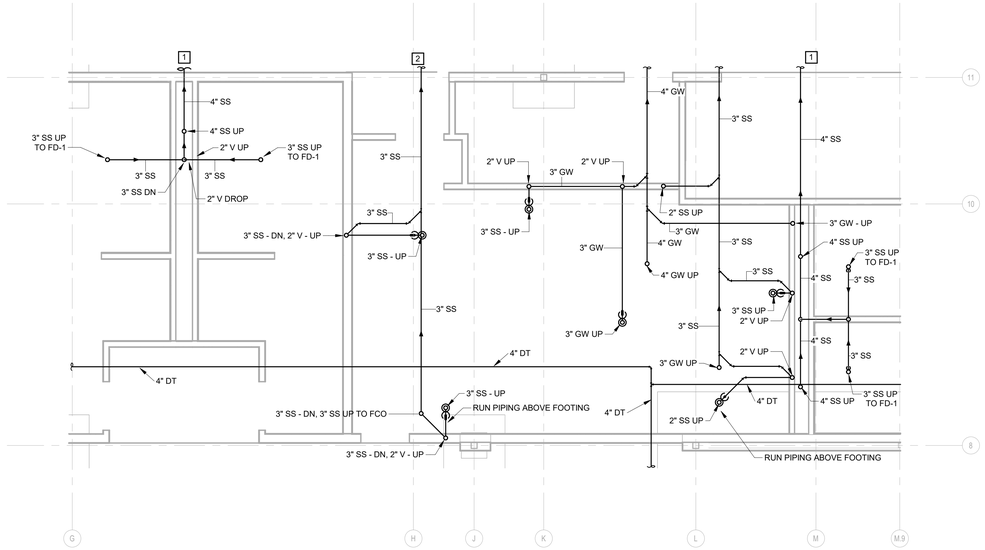
No.	Date	Revision

HQ PLUMBING ROOF PLAN

Project No. 23121

Sheet No. P122

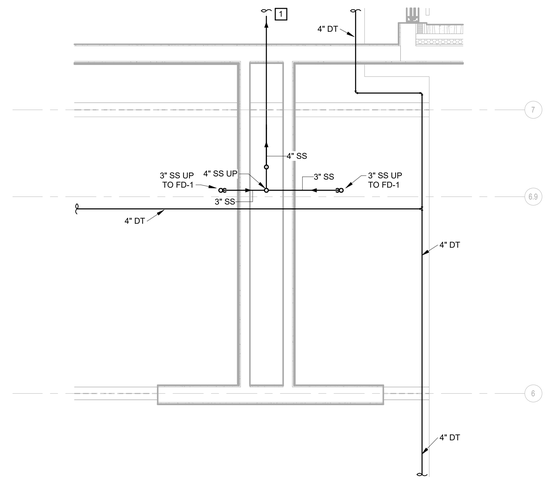
Date 09/16/2025



1 HQ ENLARGED PLUMBING UNDERFLOOR PLAN - RESTROOM AND KITCHEN

1/4" = 1'-0"

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



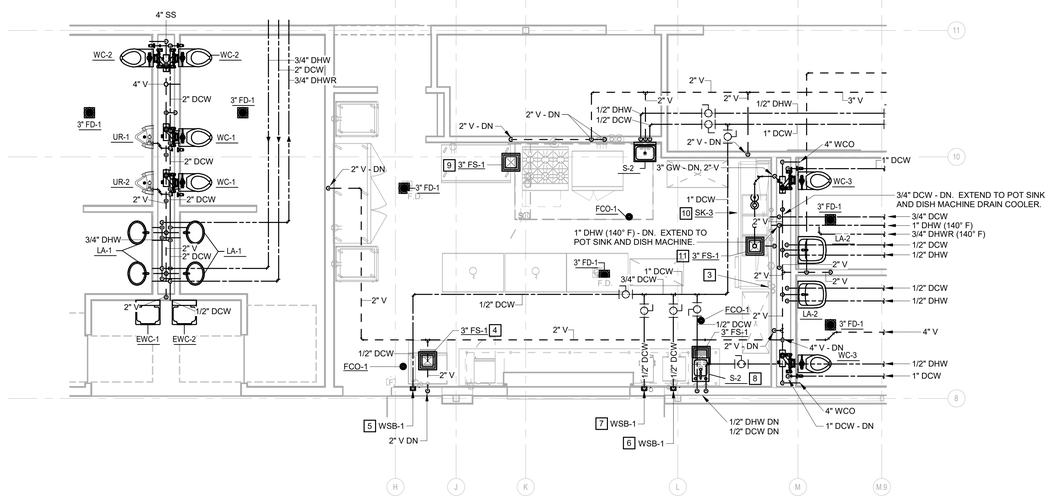
2 HQ ENLARGED PLUMBING UNDERFLOOR PLAN - TRAINING RESTROOM

1/2" = 1'-0"

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

P130 KEYED NOTES

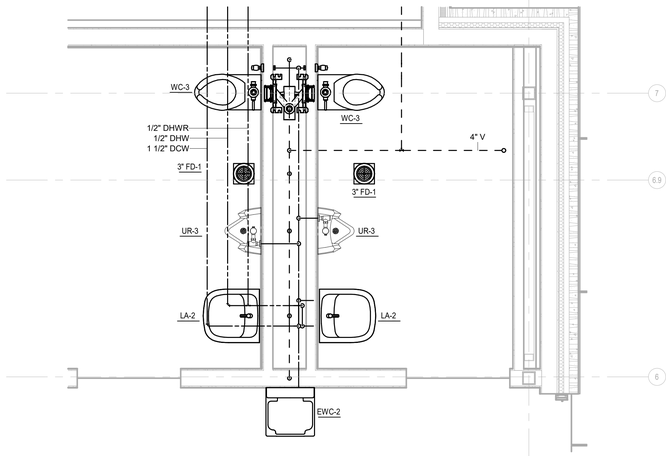
#	
1	4" SS CONTINUES ON SHEET P120.
2	3" SS CONTINUES ON SHEET P120.
3	1/2" DCW FOR DISH MACHINE DRAIN TEMPERING CONNECTION. 3/4" DHW (140) FOR DISH MACHINE. EXTEND 1/2" DCW AND 3/4" DHW (140) OUT OF WALL, TURN 90 DEGREES AND PROVIDE A STRAINER AND SHUT-OFF VALVE. EXTENSION AND CONNECTION TO DISH MACHINE BY PC. REFER TO KITCHEN EQUIPMENT DRAWINGS FOR EXACT LOCATION OF ROUGH-IN. 3/4" DRAIN EXTEND AND TERMINATE INDIRECT OVER FLOOR SINK. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS. OPERATING PRESSURE IS 15-65 PSI. FURNISH AND INSTALL A PRV IF PRESSURE IS ABOVE 65 PSI. PC SHALL MAKE ALL FINAL CONNECTIONS. FURNISH AND INSTALL ESCUTCHEON PLATES ON WALL PENETRATIONS.
4	PIPE TWO 3/4" ICE MACHINE DRAINS TO TERMINATE INDIRECT OVER FLOOR SINK.
5	EXTEND 3/8" DCW PIPING FROM WATER SUPPLY BOX (WSB) TO CARTRIDG STYLE FILTER (BY OTHERS). EXTEND WATER LINE FROM FILTER TO ICE MACHINE. PC SHALL MAKE ALL FINAL CONNECTIONS.
6	1/2" DCW DOWN TO WSB LOCATED BEHIND COFFEE MAKER. EXTEND AND CONNECT FLEXIBLE STAINLESS STEEL WATER LINE FROM WSB TO COFFEE MAKER. FURNISH AND INSTALL A WATTS LF7 INLINE BACKFLOW PREVENTER.
7	1/2" DCW DOWN TO WSB LOCATED BEHIND ICE TEA MAKER. EXTEND AND CONNECT FLEXIBLE STAINLESS STEEL WATER LINE FROM WSB TO ICE TEA MAKER. FURNISH AND INSTALL A WATTS LF7 INLINE BACKFLOW PREVENTER.
8	TERMINATE 1-1/2" DRAIN (COPPER) FROM SINK INDIRECT OVER FLOOR SINK.
9	PIPE HOOD GREASE TROUGH DRAIN TO TERMINATE INDIRECT OVER FLOOR SINK. EXTEND PIPING FROM HOOD INTO WALL, EXTEND DOWN IN WALL AND EXIT WALL NEAR FLOOR AND EXTEND TO FLOOR DRAIN. FURNISH AND INSTALL ESCUTCHEON PLATES AT WALL PENETRATIONS.
10	(3) 2" D (COPPER) FROM POT SINK TO 2" HEADER WITH P-TRAP AT END OF HEADER. TURN 90 DEGREES INTO WALL WITH CLEAN OUT AT 90 DEGREE ELBLOW.
11	FLOOR SINK LOCATED UNDER DRAIN BOARD FOR DISH MACHINE DRAIN. COORDINATE LOCATION OF FLOOR SINK WITH SINK LEGS.



3 HQ ENLARGED PLUMBING PLAN - RESTROOM AND KITCHEN

1/4" = 1'-0"

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



4 HQ ENLARGED PLUMBING PLAN - TRAINING RESTROOM

1/2" = 1'-0"

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

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No.	Date	Revision

ENLARGED HQ PLUMBING PLAN

Project No. 23121

Sheet No. P130

Date 09/16/2025

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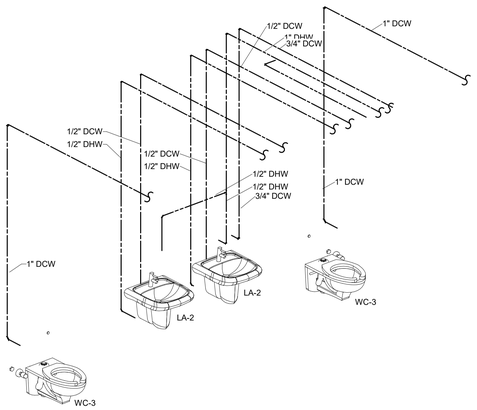
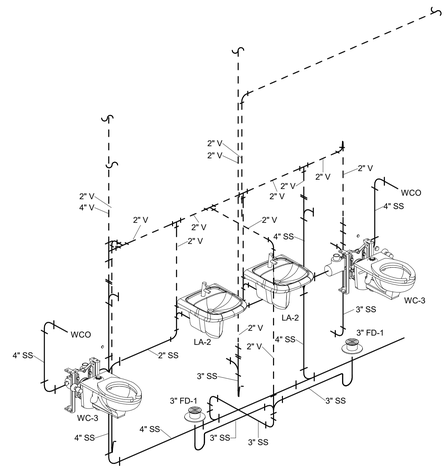
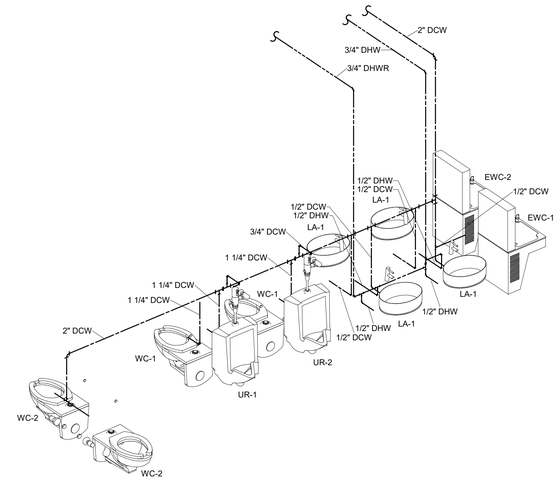


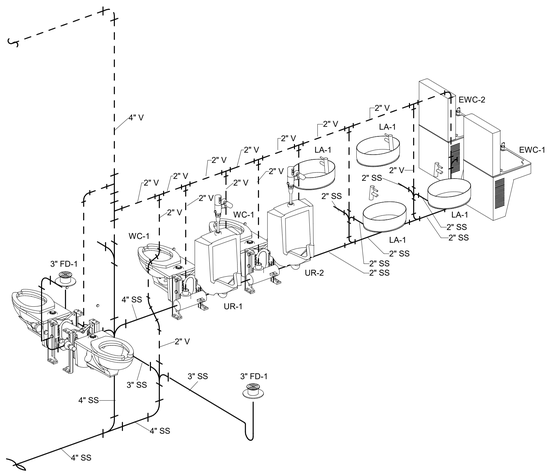
1 STAFF TOILET 01 & 02 RISER DIAGRAM - DOMESTIC



2 STAFF TOILET 01 & 02 RISER DIAGRAM - WASTE/VENT



3 MENS 113 AND WOMENS 114 RISER - DOMESTIC



4 MENS 113 AND WOMENS 114 RISER - WASTE/VENT

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380/340 ECOLOGY DRIVE

No.	Date	Revision

HQ PLUMBING ISOMETRICS

Project No. 23121

Sheet No. P141

Date 09/16/2025

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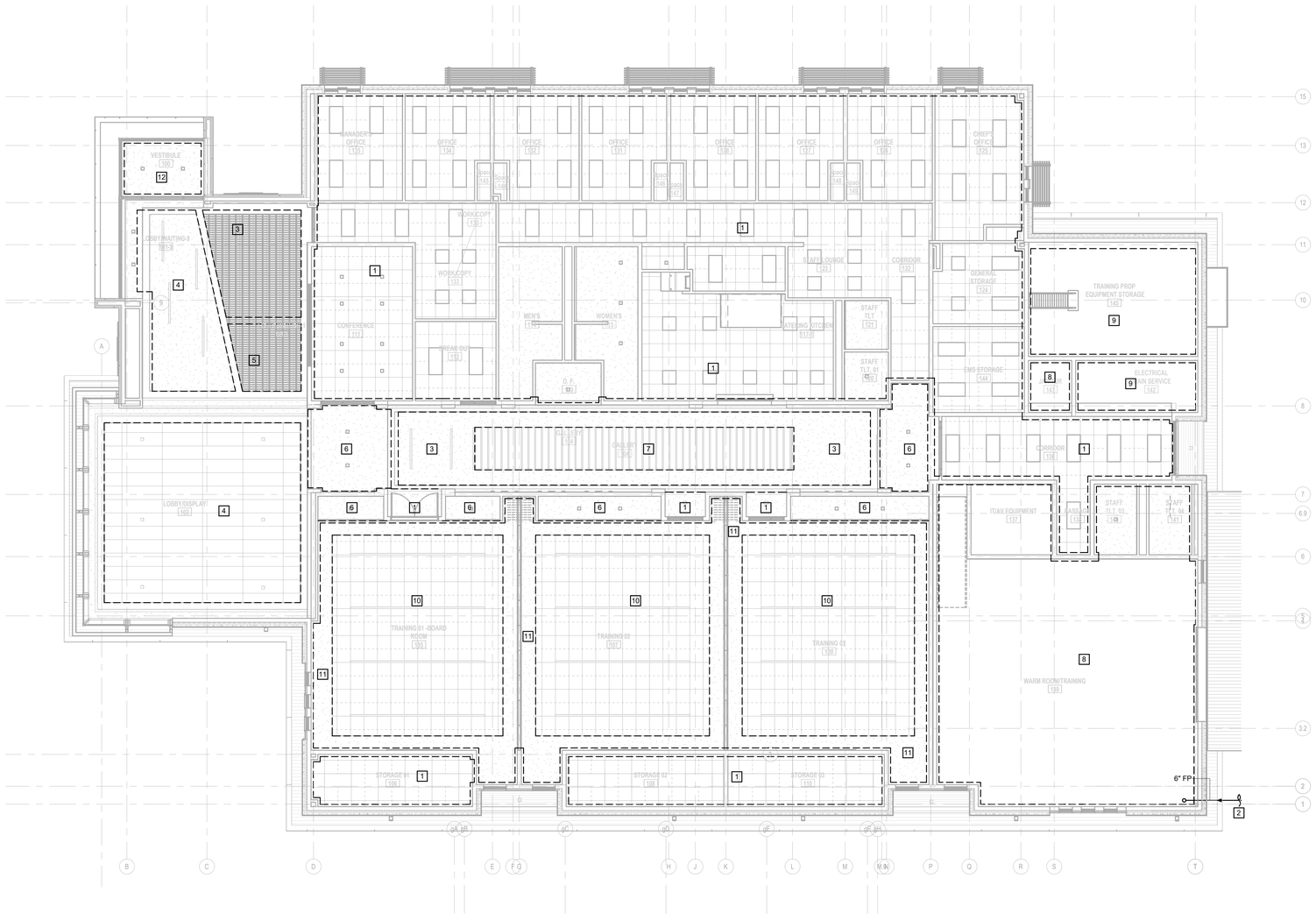
FP121 KEYED NOTES

#	
1	TYPE A HEADS TO BE INSTALLED.
2	6" FIRE SPRINKLER LINE CONTINUED BY OTHERS. REFER TO CIVIL DRAWINGS.
3	TYPE A HEADS TO BE INSTALLED IN SUSPENDED GYP CEILING CLOUD.
4	TYPE A HEADS TO BE INSTALLED IN SUSPENDED ACT CEILING CLOUD.
5	SUSPENDED WOOD FEATURE CEILING CLOUD.
6	TYPE A HEADS TO BE INSTALLED IN LOWER GYP CEILING.
7	OPEN ACOUSTIC BLAD CEILING.
8	TYPE D HEADS TO BE INSTALLED.
9	OPEN TO ABOVE. SEE MEZZANINE PLAN.
10	TYPE A HEADS TO BE INSTALLED IN 13' 0" ACT CEILING.
11	12' 0" GYP CEILING. INSTALL TYPE A HEADS IN LOWER CEILING AREA AS REQUIRED.
12	TYPE E HEADS TO BE INSTALLED.



1 FIRE PROTECTION HQ RCP
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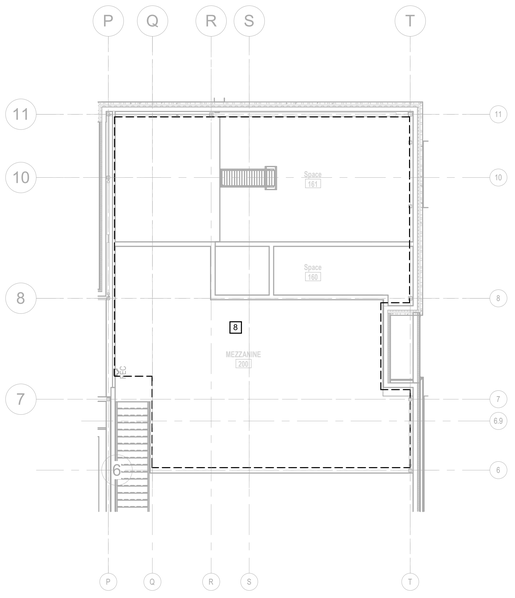
SCALE: 1/8" = 1'-0"



2 HQ MEZZANINE FIRE PROTECTION PLAN
1/8" = 1'-0"
0 4'-0" 8'-0" 16'-0"
SCALE: 1/8" = 1'-0"

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No.	Date	Revision

HQ FIRE PROTECTION PLAN

Project No.
23121

Sheet No.
FP121

Date
09/16/2025

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E121 KEYED NOTES

#	
#	ENTERPRISE ACCESS HUB PANEL.
1	OUTLET FOR MICROWAVE. SEE ARCHITECTURAL PLANS FOR LOCATION.
2	ELECTRIC WATER COOLER OUTLET. MOUNT OUTLET TO CONCEAL CORD AND PLUG. FOLLOW MANUFACTURERS REQUIREMENTS OF SPECIFIC MODEL INSTALLED.
3	OVERHEAD DOOR CONTROLLER SUPPLIED WITH DOOR. INSTALLED BY ELECTRICAL CONTRACTOR +54".
4	CONNECT 110V POWER TO ROLLER SHADE. INSTALL CAT-6 CABLE FROM EACH SHADE TO CAT-6 SPLITTER. INSTALL CAT-6 CABLE FROM SPLITTER TO WALL CONTROLLER. SEE MANUFACTURER FOR INSTRUCTION AND LOCATION.
5	ROLLER SHADE CONTROLLER SUPPLIED BY GENERAL CONTRACTOR. INSTALLED BY ELECTRICAL CONTRACTOR.
6	1" UNDERGROUND CONDUIT TO FLOOR BOX.
7	SEE AUXILIARY PLAN FOR DESCRIPTION.
8	WIREMOLD RFBA2R300G FPBTCBK WITH (2) DUPLEX OUTLETS.
9	WIREMOLD RFBA2R300G FPBTCBS WITH (2) DUPLEX OUTLETS.
10	PROVIDE 1-1/2" CONDUIT WITH PULLSTRING FROM ELECTRICAL MAIN SERVICE 142 TO PAST SIDEWALK FOR IRRIGATION CONTROL WIRING.
11	FIRE ALARM CONTROL PANEL.
12	ACCESS CONTROL PANEL.
13	IRRIGATION CONTROL PANEL.
14	LIGHTING CONTROL PANEL.
15	ENTERPRISE ACCESS HUB PANEL.
16	INSTALL SURE-LITES SELWT-29-NC-WH-SP EMERGENCY LIGHT ABOVE GENERATOR CONTROL PANEL CONNECT TO SAME CIRCUIT AS BATTERY CHARGER.
17	CONNECT START CIRCUIT TO ATS.
18	CONNECT TO BATTERY CHARGER AND JACKET WATER HEATER.
19	CONNECT TO GENERATOR ANNUNCIATOR PANEL.
20	PROVIDE REMOTE GENERATOR KILL BUTTON IN WEATHERPROOF ENCLOSURE.
21	24"x4"x1/2" COPPER GROUND BAR. INSTALL #3/0 BARE CABLE TO SERVICE ENTRANCE GROUND.
22	(2) NEMA L5-20R OUTLETS MOUNTED ABOVE RACK FOR PDU CONNECTION.
23	RACK AND CABINET PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR. UPS PROVIDED AND INSTALLED BY OWNER. PATCH PANEL PROVIDED AND INSTALLED BY CONTRACTOR.
24	PROVIDE AND INSTALL MINKA AIRE 65" SLIPSTREAM OUTDOOR FAN WITH BRUSHED STEEL FINISH AND BRUSHED STEEL BLADES. F888-BNW.
25	PROVIDE AND INSTALL MINKA AIRE FAN CONTROLLER. WC400. CONTROLS BOTH FANS.
26	POWER FOR EXHAUST HOOD. PROVIDE SHUNT-TRIP BRANCH BREAKER AS REQUIRED. CONNECT TO CIRCUIT VIA FIRE ALERTING SYSTEM RELAY AND HOOD RELAY BOX. CONNECT TO STOVE GAS SOLENOID VALVES. SEE KITCHEN EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION.
27	PROVIDE SHUNT-TRIP BRANCH BREAKER AS REQUIRED. SEE KITCHEN EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION.
28	POWER FOR UNDER COUNTER DISHWASHER.
29	POWER FOR COFFEE MAKER.
30	SEE FOOD SERVICE DRAWINGS FOR EQUIPMENT CONNECTION DETAILS AND ELECTRICAL CONTRACTOR REQUIREMENTS.
31	PROVIDE AND INSTALL REELCRAFT SERIES L5050 NEMA 5-20R QUAD BOX POWER CORD REEL. SET OUTLET ON CORD REEL 6' A.F.F.. VERIFY FINAL LOCATION WITH OWNER.
32	PROVIDE AND INSTALL REELCRAFT SERIES L4525 CORD REEL. SET OUTLET ON CORD REEL 6' A.F.F.. VERIFY FINAL LOCATION WITH OWNER.
33	PROVIDE LEVITON 3251W-Y 2 GANG 2-DECORA COVER PLATE.
34	SEE ELECTRICAL SITE PLAN SHEET E006 FOR CONTINUATION.
35	OWNER SUPPLIED AND CONTRACTOR INSTALLED TV. REFER TO OWNER FOR EXACT LOCATION.

1 HQ POWER PLAN
1/8" = 1'-0"
0 4'-0" 8'-0" 16'-0"
SCALE: 1/8" = 1'-0"

2 HQ MEZZANINE POWER PLAN
1/8" = 1'-0"
0 4'-0" 8'-0" 16'-0"
SCALE: 1/8" = 1'-0"

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360/340 ECOLOGY DRIVE
ST. PETERS, MO 63376

No.	Revision	Date

HQ POWER PLAN

Project No.
23121

Sheet No.
E121

Date
09/16/2025

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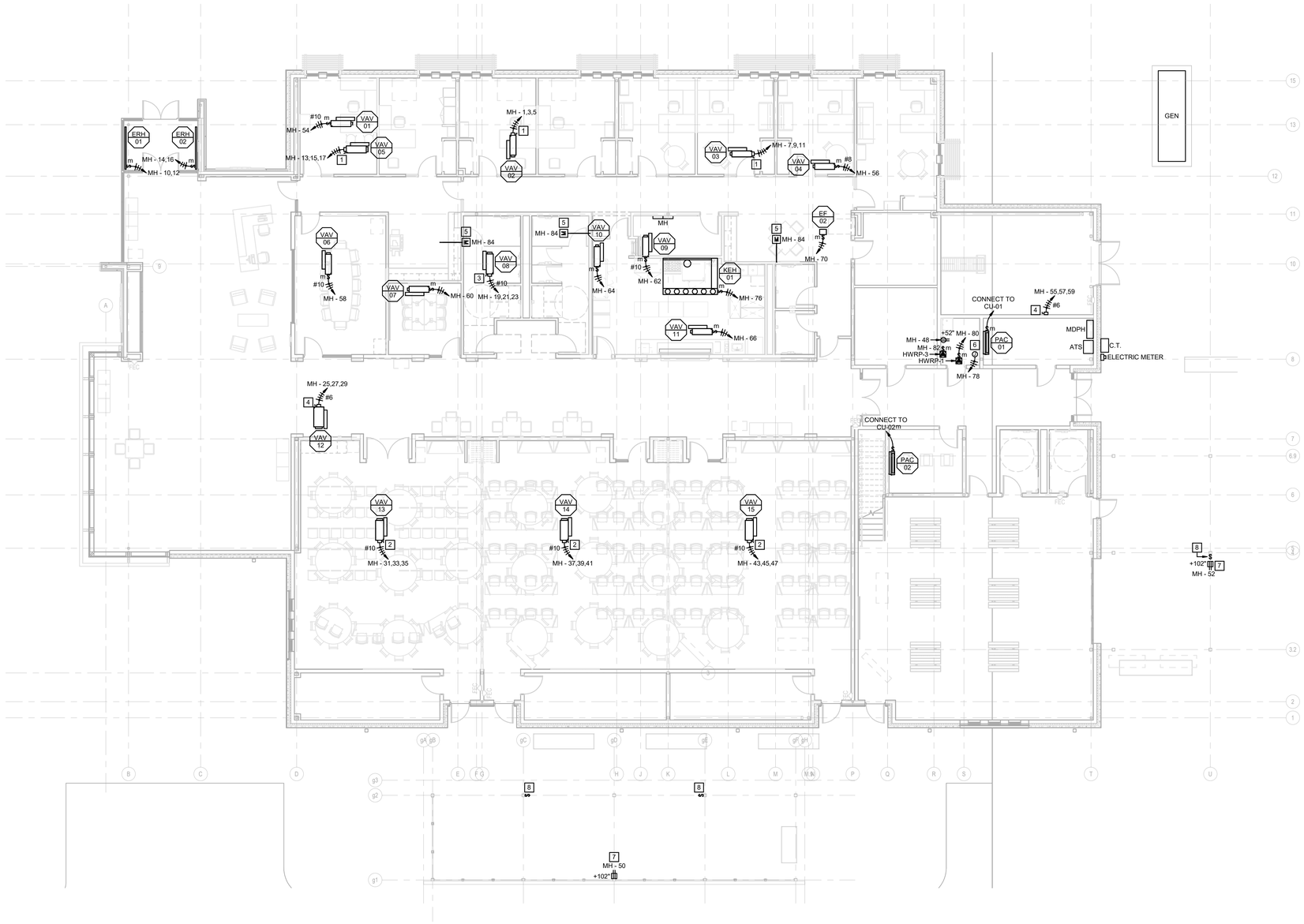
E122 KEYED NOTES

1. NEMA 1, 30 AMP FUSIBLE DISCONNECT. FUSE AT 20 AMP WITH FRS-R FUSES.
2. NEMA 1, 30 AMP FUSIBLE DISCONNECT. FUSE AT 25 AMP WITH FRS-R FUSES.
3. NEMA 1, 30 AMP FUSIBLE DISCONNECT. FUSE AT 30 AMP WITH FRS-R FUSES.
4. NEMA 1, 60 AMP FUSIBLE DISCONNECT. FUSE AT 60 AMP WITH FRS-R FUSES.
5. CONNECT POWER TO MOTORIZED DAMPER. SEE MECHANICAL PLANS FOR DETAILS AND LOCATION.
6. POWER FOR TMV-1. REFER TO PLUMBING PLANS FOR EXACT LOCATION.
7. RECEPTACLE FOR GAS POWERED RADIANT HEATER.
8. SWITCH FOR GAS POWERED RADIANT HEATER.



1 HQ EQUIPMENT POWER PLAN
1/8" = 1'-0"
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SCALE: 1/8" = 1'-0"

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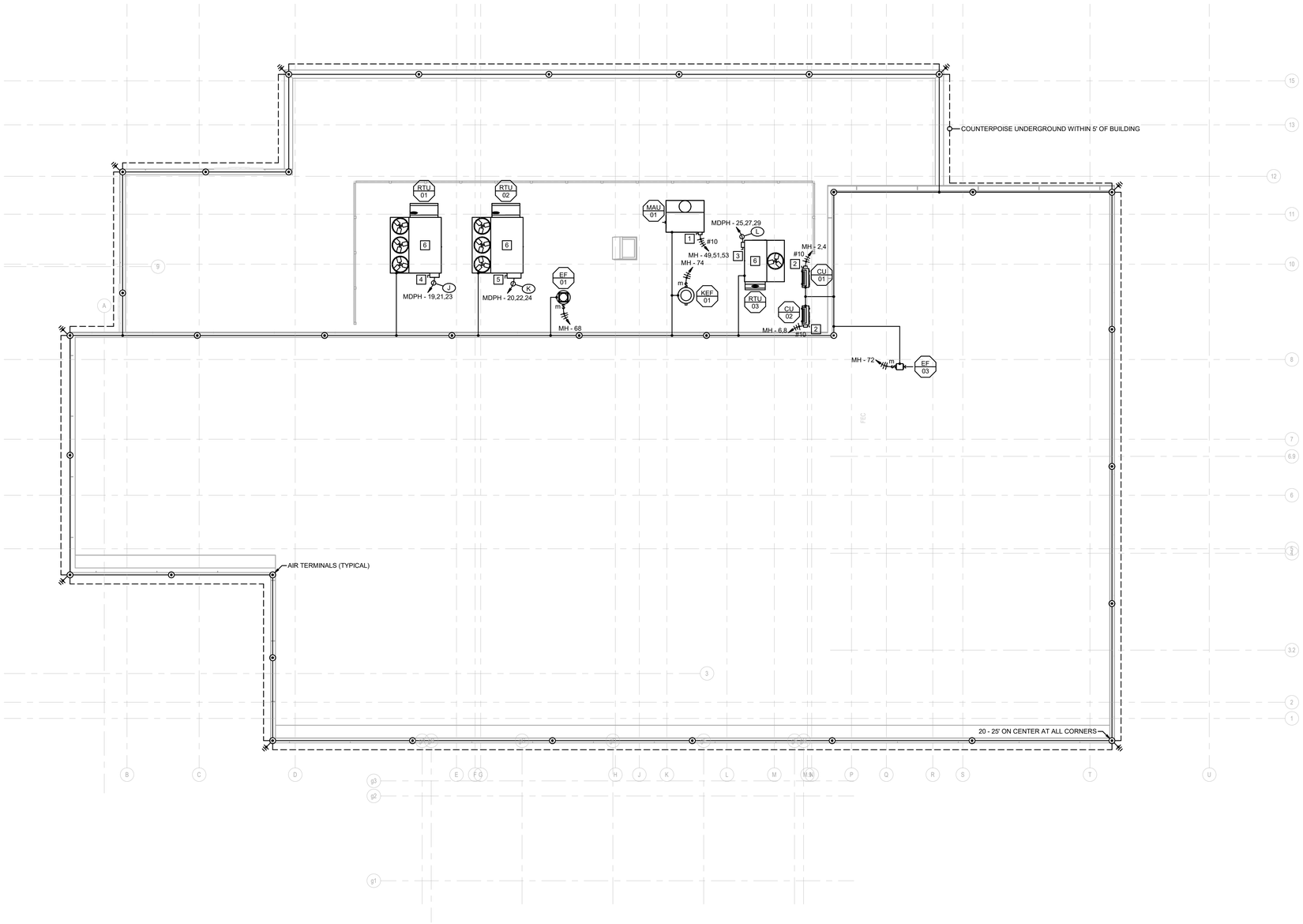
HQ EQUIPMENT POWER PLAN

Project No. 23121

Sheet No. E122

Date 09/16/2025



1 HQ EQUIPMENT POWER ROOF PLAN
1/8" = 1'-0"
0 4'-0" 8'-0" 16'-0"
SCALE: 1/8" = 1'-0"

E123 KEYED NOTES

1. NEMA 3, 30 AMP FUSIBLE DISCONNECT. FUSE AT 25 AMP WITH FRS-R FUSES.
2. NEMA 3, 30 AMP FUSIBLE DISCONNECT. FUSE AT 30 AMP WITH FRS-R FUSES.
3. NEMA 3, 100 AMP FUSIBLE DISCONNECT. FUSE AT 70 AMP WITH FRS-R FUSES.
4. NEMA 3, 200 AMP FUSIBLE DISCONNECT. FUSE AT 200 AMP WITH FRS-R FUSES.
5. NEMA 3, 400 AMP FUSIBLE DISCONNECT. FUSE AT 225 AMP WITH FRS-R FUSES.
6. DUPLEX RECEPTACLE IS PROVIDED WITH RTU UNIT AND POWERED BY RTU UNIT.

LIGHTNING PROTECTION NOTES:

1. AIR TERMINALS SHALL BE 3/8" x 24" SOLID COPPER.
2. CONDUCTORS SHALL BE MINIMUM #2 AWG STRANDED COPPER AND SHALL INTERCONNECT ALL AIR TERMINALS TO FORM A TWO WAY PATH TO GROUND. MINIMUM CONDUCTOR STRAND SIZE SHALL BE #17 AWG.
3. AIR TERMINALS SHALL BE PLACED ON THE RIDGE AND PERIMETER OF THE ROOFS AT INTERVALS NOT EXCEEDING 25 FEET.
4. AIR TERMINALS SHALL BE PLACED AT OR WITHIN 2 FEET OF THE ENDS OF RIDGES OR EDGES AND CORNERS OF ROOFS.
5. AREAS EXCEEDING 50 FEET IN WIDTH OR SPAN SHALL HAVE ADDITIONAL AIR TERMINALS AT INTERVALS NOT EXCEDDING 50 FEET.
6. CABLE RUNS ACROSS ROOF EXCEEDING 150 FEET SHALL BE CONNECTED TO DOWNLEAD OR PERIMETER CABLE EVERY 150 FEET.
7. AIR TERMINALS SHALL BE PLACED ON ALL CHIMNEYS AND VENTS WITH METAL LESS THAN 3/16" THICK. ALL OTHER VENTS, GUTTERING, DOWNSPOUTS, AND METAL PROTRUSIONS, ONLY BONDING AND GROUNDING ARE REQUIRED.
8. ALL WATER PIPES, TELEPHONE CONDUIT, ELECTRICAL CONDUITS, GAS PIPING, ETC. ENTERING BUILDING SHALL BE BONDED TO THE GROUNDING SYSTEM.
9. AVERAGE DISTANCE BETWEEN DOWN CONDUCTORS SHALL NOT EXCEED 100 FEET.
10. GROUND RODS SHALL BE MINIMUM 1/2" x 8' SOLID COPPER. INSTALL GROUND RODS 2 FEET FROM BUILDING, 10 FEET DEEP.
11. IF RESISTANCE TO GROUND EXCEEDS 10 OHMS, ADDITIONAL GROUND RODS SHALL BE DRIVEN AT NOT LESS THAN 10 FOOT SPACINGS UNTIL THIS VALUE IS REACHED.
12. THIS SYSTEM SHALL COMPLY WITH THE APPROPRIATE PARAGRAPHS OF NFPA 780 AS WELL AS STATE AND LOCAL CODES.
13. PROPOSED SYSTEM POINT TO POINT WIRING DIAGRAMS SHOWING ALL AIR TERMINALS, DOWN CONDUCTORS, WIRE GAUGES AND BONDING POINTS ALONG WITH MATERIAL CATALOG SHEETS SHALL BE SUBMITTED FOR APPROVAL. THIS SUBMITTAL SHALL BE BY AN APPROVED LIGHTNING PROTECTION SYSTEM CONTRACTOR.
14. FINAL SYSTEM SHALL HAVE A MASTER LABEL.
15. ALL DOWN CONDUCTOR CABLES SHALL BE CONCEALED.

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Proposed:
CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE
360/340 ECOLOGY DRIVE ST. PETERS, MO 63376

No.	Date	Revision

HQ EQUIPMENT POWER ROOF PLAN

Project No. 23121

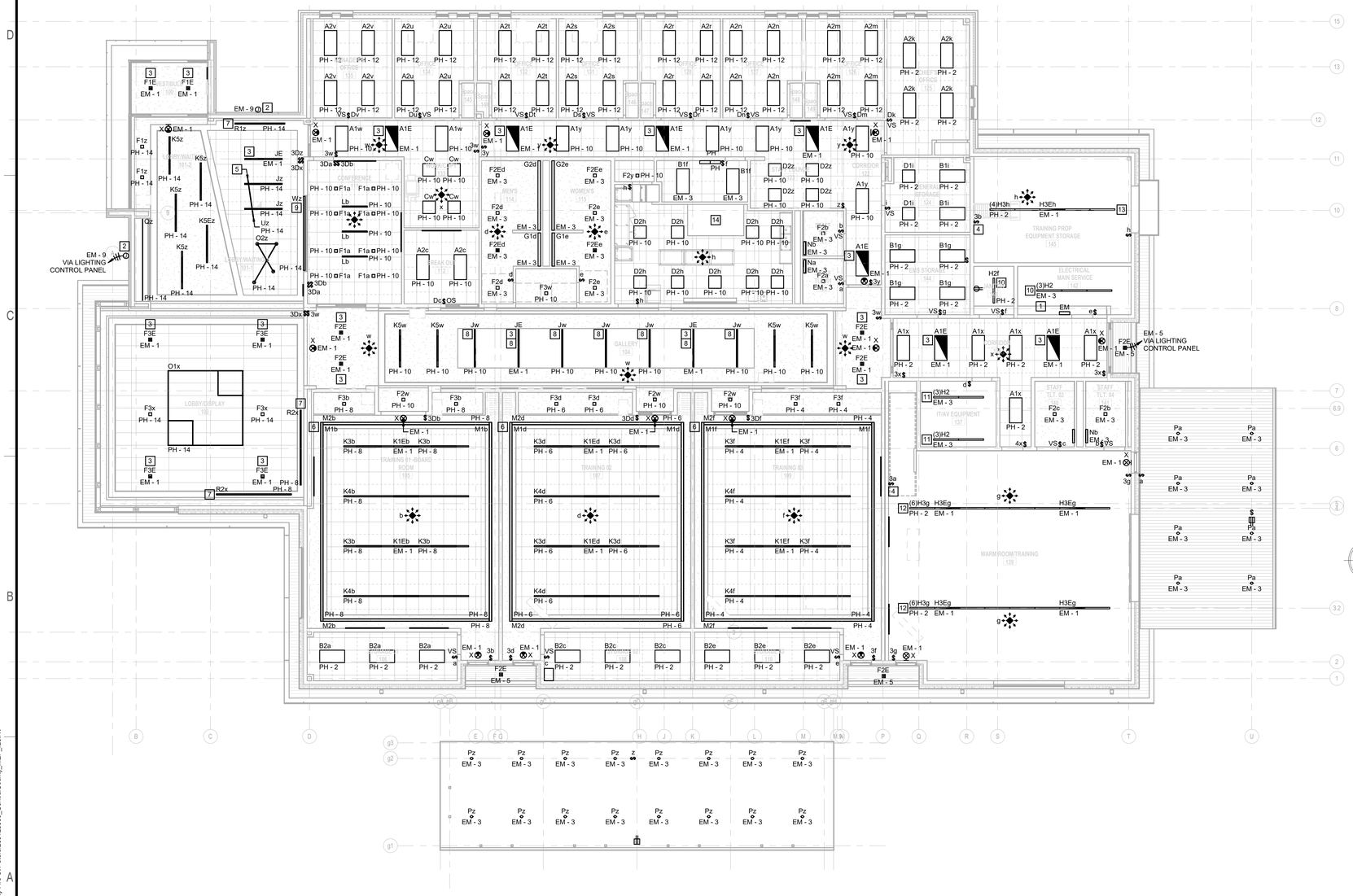
Sheet No. E123

Date 09/16/2025

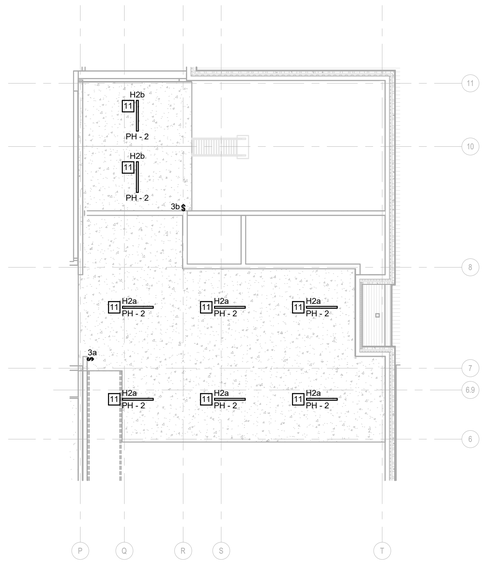
9/12/2025 3:07:34 PM
Autodesk Docs://23012300 - Central County Fire St Peters/230123000_CentralCounty_MEP_r23.rvt

E131 KEYED NOTES

#	
1	LIGHTING CONTROL PANEL.
2	POWER FOR LOGO SIGN. SEE ARCHITECTURAL PLANS FOR MOUNTING DETAILS.
3	FIXTURE CONNECTED AS UNSWITCHED NIGHT LIGHT FIXTURE. FIXTURE SHALL DIM 50% BETWEEN THE HOURS OF 10 PM AND 6 AM. SEE SCHEMATIC.
4	SWITCH FOR CONTROL OF MEZZANINE LIGHTING.
5	MOUNT FIXTURE IN SOFFIT IN RECEPTION DESK. REFER TO ARCHITECTURAL PLANS.
6	MOUNT FIXTURE IN SOFFIT. REFER TO ARCHITECTURAL PLANS.
7	HANG FIXTURE FLUSH AND ANGLED TO CEILING. REFER TO ARCHITECTURAL PLANS.
8	HANG FIXTURE FLUSH, ANGLED TO CEILING AND BETWEEN ARCHITECTURAL CEILING SLATS. REFER TO ARCHITECTURAL PLANS.
9	HANG FIXTURE AT HEAD OF STOREFRONT BETWEEN SHIPLAP AND SF HEAD. REFER TO ARCHITECTURAL PLANS.
10	HANG FIXTURE AT 9' A.F.F..
11	HANG FIXTURE AT 10' A.F.F..
12	HANG FIXTURE AT 14' A.F.F..
13	HANG FIXTURE AT 18' A.F.F..
14	SEE FOODSERVICE DRAWINGS FOR LIGHTING/SWITCH REQUIREMENTS FOR HOOD.



1 HQ LIGHTING PLAN
1/8" = 1'-0"
0 4'-0" 8'-0" 16'-0"
SCALE: 1/8" = 1'-0"



2 HQ MEZZANINE LIGHTING
1/8" = 1'-0"
0 4'-0" 8'-0" 16'-0"
SCALE: 1/8" = 1'-0"

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360/340 ECOLOGY DRIVE
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No.	Date	Revision

HQ LIGHTING PLAN

Project No. 23121

Sheet No. E131

Date 09/16/2025

9/12/2025 3:07:44 PM
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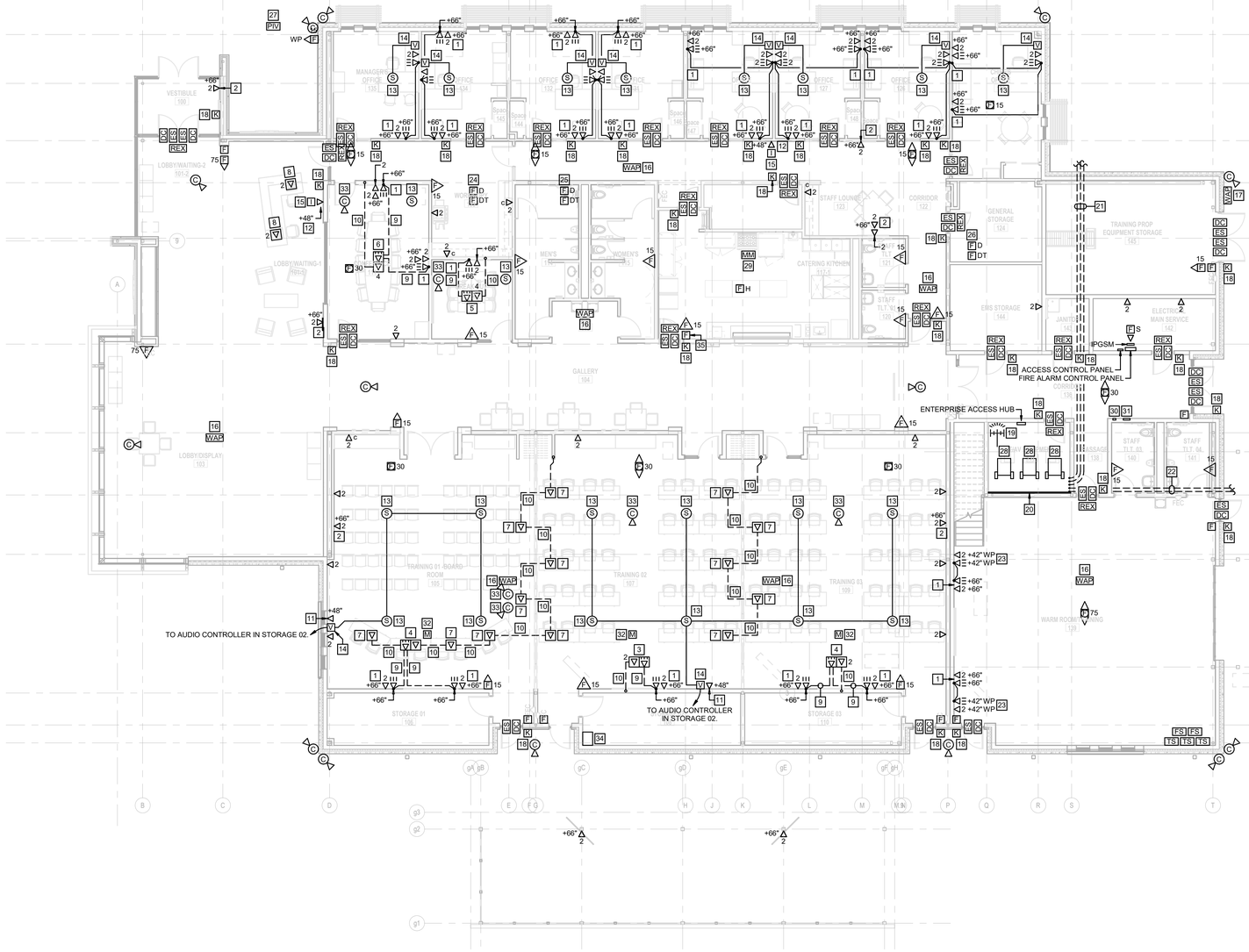
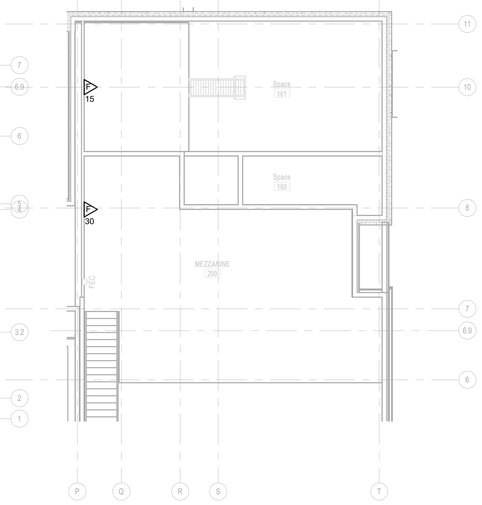
E141 KEYED NOTES

1 MOUNT FIXTURE 102" ABOUVE DECK 6 PLATFORN.

E141 KEYED NOTES



1 HQ AUXILIARY PLAN
1/8" = 1'-0"
0 4'-0" 8'-0" 16'-0"
SCALE: 1/8" = 1'-0"



2 HQ MEZZANINE AUXILIARY PLAN
1/8" = 1'-0"
0 4'-0" 8'-0" 16'-0"
SCALE: 1/8" = 1'-0"

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360/340 ECOLOGY DRIVE ST. PETERS, MO 63376

No.	Date	Revision

HQ AUXILIARY PLAN

Project No. 23121

Sheet No. E141

Date 09/16/2025

9/12/2025 3:07:54 PM
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Panelboard: MDPH | **Mounting: SURFACE** | **Location: ELECTRICAL...** | **AIC Rating: 42 kA Minimum**
Volts: 120/208 Wye | **Phases: 3** | **Amps: 1000 A** | **Feed From: XFMR**
Wire: 4 | **Mains: MLO**

Circuit Description	Amps	Poles	CKT	A		B		C		CKT	Poles	Amps	Circuit Description
SPD	60 A	3	1	0	3092					2	3	100 A	Panel LS
--	--	--	3			0	2829			4	--	--	--
--	--	--	5					0	2151	6	--	--	--
Panel IT	100 A	3	7	3380	38058					8	3	400 A	Panel MH
--	--	--	9			2880	33664			10	--	--	--
--	--	--	11					2880	34788	12	--	--	--
Panel PH	400 A	3	13	22881	12311					14	3	125 A	Panel KH
--	--	--	15			21763	10624			16	--	--	--
--	--	--	17					22444	7795	18	--	--	--
RTU-01	200 A	3	19	16452	20175					20	3	225 A	RTU-02
--	--	--	21			16452	20175			22	--	--	--
--	--	--	23					16452	20175	24	--	--	--
RTU-03	70 A	3	25	4683	--					26	1	--	SPACE
--	--	--	27			4683	--			28	1	--	SPACE
--	--	--	29					4683	--	30	1	--	SPACE
	Phase Load:			**120.86 kW**		**112.94 kW**		**111.24 kW**					
	Phase Amps:			**1009.33 A**		**943.33 A**		**927.01 A**					
	Total Load:					**345.03 kW**							
	Total Amps:					**957.72 A**							

Panelboard: EM | **Mounting: SURFACE** | **Location: ELECTRICAL...** | **AIC Rating: 22 kA Minimum**
Volts: 120/208 Wye | **Phases: 3** | **Amps: 100 A** | **Feed From: MDPH**
Wire: 4 | **Mains: MLO**

Circuit Description	Amps	Poles	CKT	A		B		C		CKT	Poles	Amps	Circuit Description
Lighting - Egress and Exit Signs	20 A	1	1	814	500					2	1	20 A	Fire Alarm Control Panel
Lighting - Restrooms, Electric Room, IT Room,...	20 A	1	3			915	50			4	1	20 A	Lighting Control Panel
Lighting - Exterior Building	20 A	1	5					44	500	6	1	20 A	Access Control Panel
Lighting - Exterior Building (Maintenance)	20 A	1	7	260	200					8	1	20 A	Camera POE Injector & Fiber to Copper Converter
Lighting - Building Signs	20 A	1	9			556	0			10	1	20 A	SPARE
Lighting - Site	20 A	2	11					848	0	12	1	20 A	SPARE
--	--	--	13	848	0					14	1	20 A	SPARE
Lighting - Site	20 A	2	15			799	0			16	1	20 A	SPARE
--	--	--	17					799	0	18	1	20 A	SPARE
Lighting - Site Bollards and Building	20 A	2	19	552	0					20	1	20 A	SPARE
--	--	--	21			552	0			22	1	20 A	SPARE
SPARE	20 A	1	23					0	0	24	1	20 A	SPARE
SPARE	20 A	1	25	0	0					26	1	20 A	SPARE
SPARE	20 A	1	27			0	0			28	1	20 A	SPARE
SPARE	20 A	1	29					0	0	30	1	20 A	SPARE
	Phase Load:			**3.09 kW**		**2.83 kW**		**2.15 kW**					
	Phase Amps:			**26.64 A**		**24.44 A**		**17.92 A**					
	Total Load:					**8.07 kW**							
	Total Amps:					**22.40 A**							

Panelboard: IT | **Mounting: SURFACE** | **Location: IT/AV EQUIPMENT 137** | **AIC Rating: 22 kA Minimum**
Volts: 120/208 Wye | **Phases: 3** | **Amps: 100 A** | **Feed From: MDPH**
Wire: 4 | **Mains: 100 A MCB (LSI)**

Circuit Description	Amps	Poles	CKT	A		B		C		CKT	Poles	Amps	Circuit Description
L5-20R Server Rack Receptacle	20 A	1	1	1440	500					2	1	20 A	Enterprise Access Hub
L5-20R Server Rack Receptacle	20 A	1	3			1440	0			4	1	20 A	SPARE
L5-20R Server Rack Receptacle	20 A	1	5					1440	0	6	1	20 A	SPARE
L5-20R Server Rack Receptacle	20 A	1	7	1440	0					8	1	20 A	SPARE
L5-20R Server Rack Receptacle	20 A	1	9			1440	0			10	1	20 A	SPARE
L5-20R Server Rack Receptacle	20 A	1	11					1440	0	12	1	20 A	SPARE
	Phase Load:			**3.38 kW**		**2.88 kW**		**2.88 kW**					
	Phase Amps:			**28.17 A**		**24.00 A**		**24.00 A**					
	Total Load:					**9.14 kW**							
	Total Amps:					**25.37 A**							

Panelboard: KH | **Mounting: SURFACE** | **Location: WOMEN'S 115** | **AIC Rating: 22 kA Minimum**
Volts: 120/208 Wye | **Phases: 3** | **Amps: 125 A** | **Feed From: MDPH**
Wire: 4 | **Mains: 125 A MCB (LSI)**

Circuit Description	Amps	Poles	CKT	A		B		C		CKT	Poles	Amps	Circuit Description
Receptacles - Refrigerator	20 A	1	1	828	3172					2	2	40 A	Under Counter Dishwasher
Receptacles - Freezer	20 A	1	3			1152	3172			4	--	--	--
Receptacles - Convection Oven	20 A	1	5					1920	2995	6	2	40 A	Receptacles - Coffee Maker
Receptacles - Ice Machine	20 A	1	7	1716	2995					8	--	--	--
Receptacles - Tea Brewer	20 A	1	9			1800	2400			10	1	25 A	Exhaust Hood
Receptacles - Serving Counter	20 A	1	11					1500	1200	12	1	25 A	Receptacles - Microwave
Receptacles - Serving Counter	20 A	1	13	1500	1920					14	1	20 A	Receptacles - Hot Holding Cabinet
Cordreel Receptacle - Portable Work Tables	20 A	1	15			180	1920			16	1	20 A	Receptacles - Hot Holding Cabinet
Cordreel Receptacle - Portable Work Tables	20 A	1	17					180	0	18	1	20 A	SPARE
Cordreel Receptacle - Portable Work Tables	20 A	1	19	180	0					20	1	20 A	SPARE
	Phase Load:			**12.31 kW**		**10.62 kW**		**7.80 kW**					
	Phase Amps:			**106.22 A**		**92.16 A**		**64.96 A**					
	Total Load:					**30.73 kW**							
	Total Amps:					**85.30 A**							

Panelboard: MH | **Mounting: SURFACE** | **Location: STORAGE 130** | **AIC Rating: 22 kA Minimum**
Volts: 120/208 Wye | **Phases: 3** | **Amps: 400 A** | **Feed From: MDPH**
Wire: 4 | **Mains: 400 A MCB (LSI)**

Circuit Description	Amps	Poles	CKT	A		B		C		CKT	Poles	Amps	Circuit Description
VAV-02	20 A	3	1	1667	2392					2	2	30 A	CU-01
--	--	--	3			1667	2392			4	--	--	--
--	--	--	5					1667	2392	6	2	30 A	CU-02
VAV-03	20 A	3	7	1333	2392					8	--	--	--
--	--	--	9			1333	634			10	2	15 A	ERH-01
--	--	--	11					1333	634	12	--	--	--
VAV-05	20 A	3	13	1667	634					14	2	15 A	ERH-02
--	--	--	15			1667	634			16	--	--	--
--	--	--	17					1667	0	18	1	20 A	SPARE
VAV-08	30 A	3	19	2667	0					20	1	20 A	SPARE
--	--	--	21			2667	0			22	1	20 A	SPARE
--	--	--	23					2667	0	24	1	20 A	SPARE
VAV-12	60 A	3	25	5333	0					26	1	20 A	SPARE
--	--	--	27			5333	0			28	1	20 A	SPARE
--	--	--	29					5333	0	30	1	20 A	SPARE
VAV-13	25 A	3	31	2333	0					32	1	20 A	SPARE
--	--	--	33			2333	0			34	1	20 A	SPARE
--	--	--	35					2333	0	36	1	20 A	SPARE
VAV-14	25 A	3	37	2167	0					38	1	20 A	SPARE
--	--	--	39			2167	0			40	1	20 A	SPARE
--	--	--	41					2167	0	42	1	20 A	SPARE
VAV-15	25 A	3	43	2167	0					44	1	20 A	SPARE
--	--	--	45			2167	0			46	1	20 A	SPARE
--	--	--	47					2167	500	48	1	20 A	Water Heater
MAU-01	25 A	3	49	1436	200					50	1	20 A	IRH-05 & IRH-06
--	--	--	51			1436	100			52	1	20 A	IRH-07
--	--	--	53					1436	2000	54	1	25 A	VAV-01
Cascade System Compressor	60 A	3	55	5000	3000					56	1	35 A	VAV-04
--	--	--	57			5000	2000			58	1	25 A	VAV-06
--	--	--	59					5000	1500	60	1	20 A	VAV-07
SPARE	20 A	1	61	0	2000					62	1	35 A	VAV-09
SPARE	20 A	1	63			0	1000			64	1	20 A	VAV-10
SPARE	20 A	1	65					0	1000	66	1	20 A	VAV-11
SPARE	20 A	1	67	0	228					68	1	20 A	EF-01
SPARE	20 A	1	69			0	84			70	1	20 A	EF-02
SPARE	20 A	1	71					0	192	72	1	20 A	EF-03
SPARE	20 A	1	73	0	1392					74	1	20 A	KEF-01
SPARE	20 A	1	75			0	1000			76	1	15 A	KH-01
SPARE	20 A	1	77					0	50	78	1	20 A	TMV-1
SPARE	20 A	1	79	0	50					80	1	15 A	HWRP-1
SPARE	20 A	1	81			0	50			82	1	15 A	HWRP-3
SPARE	20 A	1	83					0	750	84	1	20 A	MOTORIZED DAMPERS
	Phase Load:			**38.06 kW**		**33.66 kW**		**34.79 kW**					
	Phase Amps:			**318.59 A**		**280.54 A**		**291.34 A**					
	Total Load:					**106.51 kW**							
	Total Amps:					**295.64 A**							

Panelboard: PH | **Mounting: SURFACE** | **Location: STORAGE 130** | **AIC Rating: 22 kA Minimum**
Volts: 120/208 Wye | **Phases: 3** | **Amps: 400 A** | **Feed From: MDPH**
Wire: 4 | **Mains: 400 A MCB (LSI)**

Circuit Description	Amps	Poles	CKT	A		B		C		CKT	Poles	Amps	Circuit Description
Receptacles - Building exterior	20 A	1	1	1260	1532					2	1	20 A	Lighting
Receptacles - Building exterior	20 A	1	3			1080	1305			4	1	20 A	Lighting
Water Cooler Receptacle	20 A	1	5					370	1305	6	1	20 A	Lighting
Water Cooler Receptacle	20 A	1	7	370	1395					8	1	20 A	Lighting
Water Cooler Receptacle	20 A	1	9			370	1680			10	1	20 A	Lighting
Receptacles - Mezzanine	20 A	1	11					900	1369	12	1	20 A	Lighting
Receptacles - Room 124, 144, 145	20 A	1	13	900	1970					14	1	20 A	Lighting
Receptacles - Electrical Room 142	20 A	1	15			720	150			16	1	20 A	Roller Shades
Receptacles - Janitor, Corridor 136	20 A	1	17					540	500	18	1	20 A	Overhead Door
Receptacles - Restrooms 114, 115	20 A	1	19	720	500					20	1	20 A	Building Management System Control Panel
Receptacles - Restrooms 140, 141	20 A	1	21			360	50			22	1	20 A	Irrigation Control Panel
Floor Receptacles - Lobby 101, Lobby 103	20 A	1	23					900	1500	24	1	20 A	Motorized Gate (Existing)
Receptacles - IT/AV Equipment 137	20 A	1	25	360	1500					26	1	20 A	Motorized Gate
Receptacles - Warm Room/Training 139	20 A	1	27			1260	1500			28	1	20 A	Motorized Gate
Receptacles - Warm Room/Training 139	20 A	1	29					1620	1500	30	1	20 A	Motorized Gate
Receptacles - Chief's Office 125	20 A	1	31	1440	500					32	1	20 A	Monument Sign
Receptacles - Office 126	20 A	1	33			1440	750			34	2	20 A	Generator Jacket Water Heater
Receptacles - Office 127	20 A	1	35					1440	750	36	--	--	--
Receptacles - Office 128	20 A	1	37	1440	1500					38	1	20 A	Generator Battery Charger
Receptacles - Office 131	20 A	1	39			1440	720			40	1	20 A	Cordreel Receptacles - Warm Room/Training 139
Receptacles - Office 132	20 A	1	41					1440	720	42	1	20 A	Cordreel Receptacles - Warm Room/Training 139
Receptacles - Office 134	20 A	1	43	1440	720					44	1	20 A	Cordreel Receptacles - Warm Room/Training 139
Receptacles - Office 135	20 A	1	45			1080	180			46	1	20 A	Outdoor Ceiling Fans
Receptacles - Corridors 122, 129	20 A	1	47					720	500	48	1	20 A	Data Rack Receptacle - Storage 02
Receptacles - Gallery 104	20 A	1	49	1080	0					50	1	20 A	SPARE
Receptacles - Staff Lounge 123	20 A	1	51			900	0			52	1	20 A	SPARE
Microwave Receptacle - Staff Lounge 123	20 A	1	53					1200	0	54	1	20 A	SPARE
Receptacles - Catering Kitchen, Storage	20 A	1	55	540	0					56	1	20 A	SPARE
Receptacles - Admin Office	20 A	1	57			1960	0			58	1	20 A	SPARE
Coppier Receptacle - Admin Office	20 A	1	59					800	0	60	1	20 A	SPARE
Receptacles - Break Out 112	20 A	1	61	900	0					62	2	* 50 A	Future Electric Vehicle Charging Station
Receptacles - Conference 111	20 A	1	63			1440	0			64	--	--	--
Receptacles - Lobby/Waiting 101	20 A	1	65					1440	0	66	2	* 50 A	Future Electric Vehicle Charging Station
Receptacles - Reception 102	20 A	1	67	1260	0					68	--	--	--
Receptacles - Rooms 153, 106	20 A	1	69			1260	0			70	2	* 50 A	Future Electric Vehicle Charging Station
Receptacles - Rooms 153, 106	20 A	1	71					1150	0	72	--	--	--
Receptacles - Rooms 107, 108	20 A	1	73	1080	0					74	2	* 50 A	Future Electric Vehicle Charging Station
Receptacles - Rooms 109, 110	20 A	1	75			1260	0			76	--	--	--
Receptacles - Rooms 107, 109	20 A	1	77					1080	0	78	2	* 50 A	Future Electric Vehicle Charging Station
Receptacles - Rooms 107, 109	20 A	1	79	900	0					80	--	--	--
Receptacles - Rooms 107, 153	20 A	1	81			900	0			82	2	* 50 A	Future Electric Vehicle Charging Station
Receptacles - Room 153	20 A	1	83					720	0	84	--	--	--
	Phase Load:			**22.88 kW**		**21.76 kW**		**22.44 kW**					
	Phase Amps:			**191.55 A**		**181.36 A**		**187.91 A**					
	Total Load:					**67.07 kW**							
	Total Amps:					**186.16 A**							

* = FUTURE REMOTE SHUNT TRIP BREAKER. BREAKER TO AUTOMATICALLY TRIP WITH LOSS OF POWER AND GENERATOR IS RUNNING. BREAKER TO AUTOMATICALLY SWITCH ON WHEN NORMAL POWER RESUMES. EXACT BREAKER SIZE TO BE DETERMINED ACCORDING TO SPECIFIC CHARGING MODEL CHOSEN.

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EXPIRATION DATE: DECEMBER 31, 2026

Proposed:
CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE
380/340 ECOLOGY DRIVE
ST. PETERS, MO 63376

No.	Date	Revision

HQ ELECTRICAL PANEL SCHEDULES

Project No. 23121
Sheet No. E161
Date 09/16/2025

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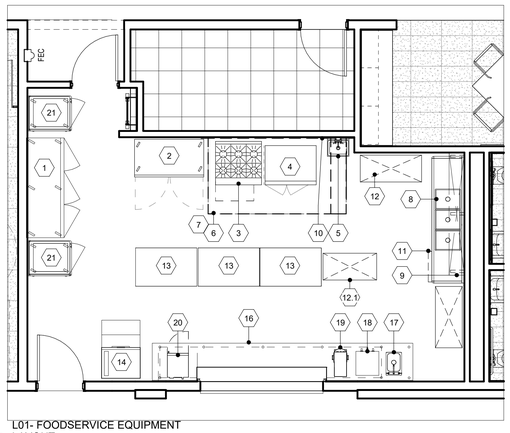

L01- FOODSERVICE EQUIPMENT LAYOUT
1/4" = 1'-0"

FOODSERVICE EQUIPMENT SCHEDULE			
ITEM NO.	QTY.	DESCRIPTION	COMMENTS
1	1	REACH-IN REFRIGERATOR	THREE SECTION UNIT W/ HALF HEIGHT DOORS
2	1	REACH-IN FREEZER	SINGLE SECTION UNIT W/ HALF HEIGHT DOORS
3	1	RANGE	
4	1	CONVECTION OVEN	DOUBLE DECK
5	1	HAND SINK	
6	1	EXHAUST HOOD W/ FIRE PROTECTION	
7	1	DUCT AND FAN	BY HVAC
8	1	THREE COMPARTMENT SINK	
9	1	STAINLESS STEEL WALL SHELF	
10	1	18 GA. STAINLESS STEEL WALL FLASHING	
11	1	UNDER COUNTER DISH WASHER	
12	2	SHELVING UNITS	21"X48"
12.1	1	SHELVING UNIT	21"X42"
13	3	WORK TABLES	
14	1	ICE MACHINE W/ BIN	
15	1	SPARE NUMBER	
16	1	FRONT COUNTER	
17	1	DROP-IN HAND SINK	
18	1	COFFEE MAKER	N.I.K.E.C. (BY VENDOR)
19	1	ICED TEA BREWER	N.I.K.E.C. (BY VENDOR)
20	1	MICROWAVE OVEN	
21	2	HOT HOLDING CABINETS	

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CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE
380/340 ECOLOGY DRIVE ST. PETERS, MO 63376

No.	Date	Revision

FOODSERVICE EQUIPMENT LAYOUT

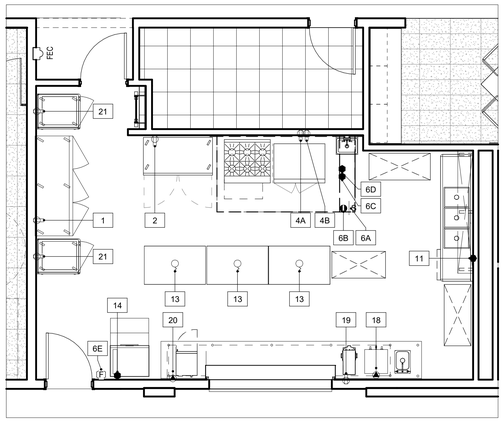
Project No.
23121

Sheet No.
FS1.0

Date
09/16/2025

9/11/2025 3:14:10 PM
P:\Central County Fire - Catering Kitchen\FS\Dwgs\23121 Central Co Fire Training Facility_Fire & Rescue Headquarters_R23_FOODSERVICE.rvt

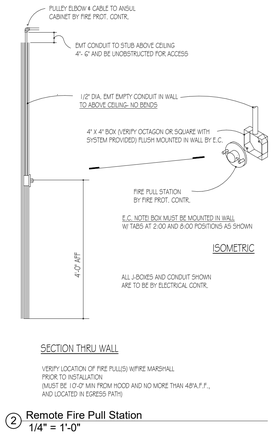
SCALE: 1/16" = 1'-0" SCALE: 3/32" = 1'-0" SCALE: 1/8" = 1'-0" SCALE: 1/4" = 1'-0" SCALE: 3/8" = 1'-0" SCALE: 1/2" = 1'-0" SCALE: 3/4" = 1'-0" SCALE: 1" = 1'-0" SCALE: 1 1/2" = 1'-0" SCALE: 3" = 1'-0"



L01- FOODSERVICE EQUIPMENT SPOT
ELECTRICAL PLAN
1/4" = 1'-0"

FOODSERVICE ELECTRICAL ROUGH-IN SCHEDULE

CONN. NO.	VOLTAGE	PHASE	AMPS	kW	CONN. TYPE	HGT. A.F.F.	Comments
1	120	1	6.9	0.828	D.R.	1' - 6"	
2	120	1	9.6	1.152	D.R.	1' - 6"	
4A	120	1	8	0.924	D.R.	1' - 6"	ELEC. CONTR. TO PROVIDE SHUNT-TRIP BRANCH BREAKER AS REQUIRED
4B	120	1	8	0.924	D.R.	4' - 0"	ELEC. CONTR. TO PROVIDE SHUNT-TRIP BRANCH BREAKER AS REQUIRED
6A	120	1	6	0.72	E.C.	9' - 0"	SWITCH FOR HOOD LIGHTS TO BE LOCATED IN CONTROL CABINET. ELEC. CONTR. TO MAKE FIELD JOINT CONNECTION BETWEEN HOOD & LIGHT FIXTURES AS REQUIRED. ELEC. CONTR. TO PROVIDE SHUNT-TRIP BRANCH BREAKER.
6B		1	0	0	E.C.	9' - 0"	K.E.C., HOOD MFG., ELEC. CONTR. & H.V.A.C. CONTR. TO COORDINATE FAN SWITCH REQUIREMENTS
6C		1	0	0	E.C.	9' - 0"	ELEC. CONTR. TO INTER-CONNECT CONTACT TO HOOD CONTROL PANEL
6D		1	0	0	E.C.	9' - 0"	ELEC. CONTR. TO INTER-CONNECT TO BUILDING FIRE ALARM AS REQUIRED
6E					OCT. BOX	4' - 0"	ELEC. CONTR. TO PROVIDE CONDUIT AND JUNCTION BOX IN WALL FOR REMOTE MANUAL PULL STATION FOR FIRE PROTECTION SYSTEM
11	208	1	30.5	6.344	E.C.	1' - 6"	
13	120	1	16	1.92	S.R.	9' - 0"	ELEC. CONTR. TO PROVIDE J-BOX IN CEILING WITH PENDANT CORD & RECEPTICLE. ELEC. CONTR. TO PROVIDE A STRAIN-RELIEF GRIP AT J-BOX.
14	120	1	14.3	1.92	E.C.	6' - 0"	
18	120/208	1	28.8	5.99	S.R.	4' - 0"	VERIFY-VENDOR PROVIDED EQUIPMENT
19	120	1	14	1.7	D.R.	4' - 0"	VERIFY- VENDOR PROVIDED EQUIPMENT
20	120	1	16.8	2	S.R.	4' - 0"	
21	120	1	16	1.92	D.R.	4' - 0"	FOR OWNER PROVIDED EQUIPMENT



SECTION THRU WALL

VERIFY LOCATION OF FIRE PULL(S) W/FIRE MARSHALL PRIOR TO INSTALLATION.
(MUST BE 10-0" MIN FROM HOOD AND NO MORE THAN 48"A.F.F., AND LOCATED IN EGRESS PATH)

2 Remote Fire Pull Station
1/4" = 1'-0"

ELECTRICAL LEGEND

- DUPLEX OUTLET
- SINGLE OUTLET
- NON-120V SINGLE OUTLET
- LOAD CENTER OR ITEM CONNECTED TO LOAD CENTER
- (D) DATA CONNECTION
- (F) REMOTE FIRE PULL - EXHAUST HOOD
- $ HOOD LIGHT SWITCH
- HOOD FAN SWITCH
- J-BOX W/ PENDENT CORD & PLUG
- J-BOX - HARD CONNECTION
- J-BOX ON ROOF - HARD CONNECTION
- E.C. ELEC. CONNECTION - HARD WIRED
- D.R. DUPLEX RECEPTICAL
- S.R. SINGLE RECEPTICAL
- OCT. BOX REMOTE EXHAUST HOOD FIRE PULL
- A.F.F. ABOVE FINISHED FLOOR

ELECTRICAL ROUGH-IN LEGEND
1/4" = 1'-0"

ELECTRICAL NOTES

1. ALL ELECTRICAL OUTLETS AND CONNECTIONS SHOWN ON PLAN ARE FOR FOODSERVICE EQUIPMENT AND ARE FOR REFERENCE ONLY. ELECTRICAL CONTRACTOR SHALL VERIFY ALL LEFT TO RIGHT DIMENSIONAL LOCATIONS WITH THE KITCHEN EQUIPMENT CONTRACTOR'S SHOP DRAWINGS.
2. ELECTRICAL CONTRACTOR SHALL VERIFY ALL INCOMING SERVICES, MAKE ALL EXTERNAL & INTERNAL CONNECTIONS AND PROVIDE ALL SWITCHES, BREAKERS, PANEL BOARDS, CONDUITS, J-BOXES, ETC. AS NECESSARY TO MAKE FOODSERVICE EQUIPMENT FUNCTIONAL.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL J-BOXES, OUTLETS AND RECEPTACLES IN FIXTURES. FIXTURE FABRICATOR TO LOCATE ALL RECEPTACLES AND/OR SWITCHES WHEN PART OF THE FIXTURE. INTERNAL WIRING SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
4. ELECTRICAL CONTRACTOR SHALL MAKE ALL INTER-CONNECTIONS FOR ALL FOODSERVICE EQUIPMENT REQUIRING A FIELD JOINT DUE TO LENGTH OR OTHER CONSTRAINTS. (THIS MAY INCLUDE BUT IS NOT LIMITED TO: EXHAUST VENTILATORS, CHEF'S COUNTERS, BUFFET COUNTERS, CONVEYORS, ETC.)
5. ALL SYMBOLS NOTED AS 12", 18", 24", ETC. ARE FROM FINISHED FLOOR TO CENTERLINE OF STUB-OUT AT HEIGHT INDICATED ON PLAN. ALL SYMBOLS NOTED AS STUB-UP SHALL TERMINATE IN A J-BOX MOUNTED HORIZONTAL TO THE FINISHED FLOOR. THE J-BOX TOP SHALL BE AT 5 1/2" A.F.F. AND SHALL BE FITTED WITH APPROPRIATE RECEPTACLE AND FACE PLATE.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE A 6'-0" PIGTAIL FLEX CONDUIT AT ALL DIRECT CONNECT STUB-OUTS. ELECTRICAL CONTRACTOR TO EXTEND AND CONNECT TO ALL EQUIPMENT AND/OR FIXTURES AS REQUIRED.
7. ELECTRICAL CONTRACTOR SHALL CONNECT 120V CONTROL CIRCUIT FROM FIRE PROTECTION SYSTEM TO CONTROL COIL.
8. ELECTRICAL CONTRACTOR SHALL INTER-CONNECT BUILDING FIRE ALARM SYSTEM CONTROL WIRING TO EXHAUST HOOD FIRE PROTECTION SYSTEM.
9. ELECTRICAL CONTRACTOR SHALL PROVIDE A MINIMUM OF 3 WIRES ON ALL 208 OR 230 VOLT CIRCUITS.
10. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL SERVICE ON ROOF FOR EXHAUST AND/OR MAKE-UP AIR SYSTEMS. ELECTRICAL CONTRACTOR SHALL VERIFY LOCATION.
11. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL UNDERBAR LIGHTING AND CONNECT BACKBAR DISPLAY LIGHTING.
12. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL STAINLESS STEEL COVER PLATES ON ALL RECEPTACLES AND SWITCHES IN FOODSERVICE AREAS. ALL RECEPTACLES ABOVE 48" SHALL BE SET HORIZONTALLY.
13. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL GENERAL LIGHTING FIXTURES. DECORATIVE LIGHTING/HEAT LAMP FIXTURES (INCLUDING TRACKS) SUPPLIED BY THE KITCHEN EQUIPMENT CONTRACTOR SHALL BE INSTALLED BY THE ELECTRICAL CONTRACTOR.
14. ELECTRICAL CONTRACTOR SHALL PROVIDE CAPS AND CORDS FOR ALL ITEMS WHICH USE CONVENIENCE OUTLETS WHEN NOT SUPPLIED BY THE MANUFACTURER. ELECTRICAL CONTRACTOR SHALL SHORTEN ANY CORDS IF NECESSARY OR IF REQUESTED. KITCHEN EQUIPMENT CONTRACTOR SHALL COORDINATE.
15. ELECTRICAL CONTRACTOR SHALL PROVIDE TWIST-LOCK TYPE RECEPTACLES ON ALL PENDANT CORDS THAT HANG FROM A CEILING JUNCTION BOX. KITCHEN EQUIPMENT CONTRACTOR SHALL PROVIDE TWIST-LOCK PLUGS ON ALL FOODSERVICE EQUIPMENT POWERED BY THE PENDANT CORDS.
16. ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTION TO ALL FLY FANS AND/OR AIR CURTAINS PROVIDED AND INSTALLED BY THE KITCHEN EQUIPMENT CONTRACTOR.
17. LIGHT AND POWER PANELS SHALL BE SELECTED AND SIZED TO ALLOW FOR A 20 PERCENT CIRCUIT CAPACITY FOR FUTURE USE.
18. ELECTRICAL CONTRACTOR SHALL CONNECT ALL COMPRESSORS COMPLETE WITH DISCONNECT SWITCHES AND MAGNETIC STARTERS.
19. ELECTRICAL CONTRACTOR SHALL PROVIDE ON/OFF SWITCH WITH MAGNETIC STARTER(S) FOR EXHAUST FAN AND/OR MAKE-UP AIR FAN.
20. ELECTRICAL CONTRACTOR SHALL VERIFY ALL WIRING OF WALK-IN COOLERS/FREEZERS, EXHAUST HOODS, BUFFET COUNTER, DISH MACHINES AND BOOSTER HEATERS, ETC. WITH SHOP DETAILS.
21. ELECTRICAL CONTRACTOR SHALL VERIFY TYPE OF CONDUIT THAT MEETS LOCAL CODES.
22. ELECTRICAL CONTRACTOR SHALL PROVIDE SEAL TIGHT CONDUIT IN ALL EXPOSED AREAS.
23. KITCHEN EQUIPMENT CONTRACTOR SHALL VERIFY ALL UTILITY LOADS SHOWN ON THIS PLAN. IF DISCREPANCIES ARE FOUND, THE KITCHEN EQUIPMENT CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE CHANGES REQUIRED WITH ALL TRADES AND PARTIES INVOLVED PRIOR TO PURCHASE AND INSTALLATION OF EQUIPMENT. THE KITCHEN EQUIPMENT CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH ANY CHANGES REQUIRED AS A RESULT OF ITS FAILURE TO COORDINATE AS REQUIRED.
24. ELECTRICAL CONTRACTOR SHALL PROVIDE A DEDICATED CIRCUIT WITH AN ISOLATED GROUND FOR ALL POINT OF SALE AND COMPUTER EQUIPMENT SHOWN ON PLAN.
25. ELECTRICAL CONTRACTOR SHALL INTER-WIRE ALL WALK-IN COOLER/ FREEZER LIGHTS (AS REQUIRED.) ALL CONDUIT SHALL BE RUN ON THE TOP EXTERIOR CEILING OF THE WALK-IN. ALL PENETRATIONS SHALL BE SEALED BY THE KITCHEN EQUIPMENT CONTRACTOR.
26. ELECTRICAL CONTRACTOR SHALL PROVIDE REMOTE DISCONNECTS AND SERVICE FOR WALK-IN COOLER/FREEZER COMPRESSOR SYSTEMS. ELECTRICAL CONTRACTOR SHALL WIRE ALL WALK-IN REFRIGERATION COMPONENTS PROVIDED BY KITCHEN EQUIPMENT CONTRACTOR.
27. ELECTRICAL CONTRACTOR SHALL PROVIDE AN OUTLET AND SERVICE ON THE BACK WALL OF THE WALK-IN FREEZER FOR THE FREEZER DRAIN LINE THERMAL HEAT TAPE. KITCHEN EQUIPMENT CONTRACTOR TO PROVIDE AND INSTALL THERMAL TAPE FOR FINAL CONNECTION BY THE ELEC. CONTR.
28. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A SHUNT-TRIP BRANCH BREAKER FOR ALL ELECRICAL APPLIANCES UNDER THE EXHAUST HOODS INCLUDING THE EXHAUST HOOD LIGHTS, UNLESS OTHER WISE NOTED OR PROVIDED IN A UTILITY DISTRIBUTION SYSTEM.

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CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE
360/340 ECOLOGY DRIVE
ST. PETERS, MO 63376

No.	Date	Revision

FOODSERVICE EQUIPMENT SPOT ELEC

Project No.
23121

Sheet No.
FS1.1

Date
09/16/2025

SCALE: 3" = 1'-0" / SCALE: 1 1/2" = 1'-0" / SCALE: 1" = 1'-0" / SCALE: 3/4" = 1'-0" / SCALE: 1/2" = 1'-0" / SCALE: 3/8" = 1'-0" / SCALE: 1/4" = 1'-0" / SCALE: 1/8" = 1'-0" / SCALE: 3/32" = 1'-0" / SCALE: 1/16" = 1'-0"

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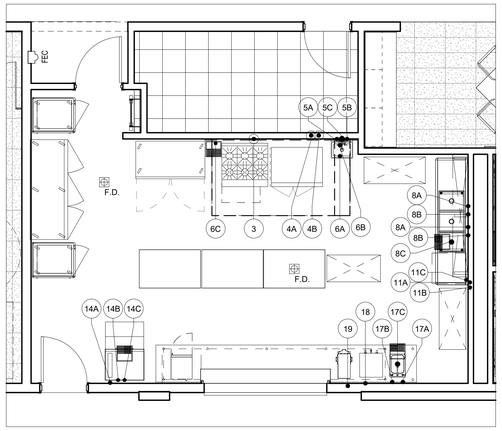
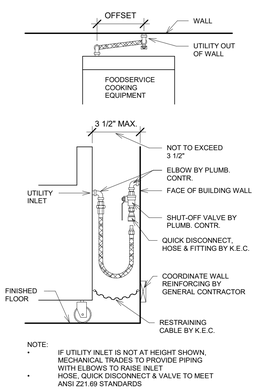


L01- FOODSERVICE EQUIPMENT SPOT
PLUMBING PLAN
1/4" = 1'-0"



NOTE:
- IF UTILITY INLET IS NOT AT HEIGHT SHOWN, MECHANICAL TRADES TO PROVIDE PIPING WITH ELBOWS TO RAISE INLET HOSE. QUICK DISCONNECT & VALVE TO MEET ANSI Z21.69 STANDARDS

Quick Disconnect Detail
1/4" = 1'-0"

PLUMBING LEGEND

- HOT/COLD WATER
- INDIRECT WASTE
- GAS SUPPLY
- FLOOR SINK - NO GRATE
- FLOOR SINK - FULL GRATE
- FLOOR SINK - 3/4 GRATE
- FLOOR SINK - 1/2 GRATE
- GREASE TRAP
- F.D. FLOOR DRAIN
- P.C. PLUMBING CONTRACTOR
- G.C. GENERAL CONTRACTOR
- S.O. STUB-OUT FROM WALL
- S.U. STUB-UP FROM FLOOR
- F.S. FLOOR SINK
- F.F.D. FUNNEL FLOOR DRAIN
- A.F.F. ABOVE FINISHED FLOOR

PLUMBING ROUGH-IN LEGEND
1/4" = 1'-0"

FOODSERVICE PLUMBING ROUGH-IN SCHEDULE

CONN. NO.	HOT WATER SIZE	COLD WATER SIZE	DIRECT WASTE	INDIRECT WASTE	GAS SIZE	GAS MBTU'S	CONN. TYPE	HGT. A.F.F.	COMMENTS
							F.F.D.	0"	
3					3/4"	215	S.O.	1' - 6"	K.E.C. TO PROVIDE PRESSURE REGULATOR, HOSE W/ QUICK DISCONNECT, RESTRAINING DEVICE FOR PLUMB. CONTR. TO INSTALL. NOTE: PRESSURE REGULATOR IS FOR EQUIPMENT PRESSURE ONLY. BUILDING PRESSURE REGULATOR TO BE PROVIDED BY & INSTALLED BE THE PLUMB. CONTR.
4A					3/4"	60	S.O.	1' - 6"	K.E.C. TO PROVIDE PRESSURE REGULATOR, HOSE W/ QUICK DISCONNECT RESTRAINING DEVICE FOR PLUMB. CONTR. TO INSTALL
4B					3/4"	60	S.O.	4' - 0"	K.E.C. TO PROVIDE PRESSURE REGULATOR, HOSE W/ QUICK DISCONNECT RESTRAINING DEVICE FOR PLUMB. CONTR. TO INSTALL
5A	1/2"						S.O.	1' - 6"	
5B		1/2"					S.O.	1' - 6"	
5C			1 1/2"				S.O.	1' - 0"	
6A	1"						S.O.	9' - 0"	140 DEGREE MINIMUM. REFER TO CAPTIVE AIRE HOOD DRAWINGS
6B		1"					S.O.	9' - 0"	PLUMB. CONTR. TO TIE INTO BUILDING SPRINKLER SYSTEM. REFER TO CAPTIVE AIRE HOOD DRAWINGS
6C				1 1/2"			F.S.	0"	PLUMB. CONTR. TO EXTEND DRAIN LINE TO FLOOR SINK
8A	1/2"						S.O.	1' - 6"	
8B		1/2"					S.O.	1' - 6"	
8C				1 1/2"			F.S.	0"	PLUMB. CONTR. SHALL BRANCH SINK DRAINS AND EXTEND TO FLOOR SINK. FLOOR SINK SHALL BE BRANCHED TO GREASE TRAP. PLUMB. CONTR. SHALL SIZE, PROVIDE AND INSTALL GREASE TRAP FOR THREE (3) APPPROXIMATELY 16"X20"X14" D SINK COMPARTMENTS
11A	3/4"						S.O.	1' - 6"	
11B		1/2"					S.O.	1' - 6"	DRAIN TEMPERING KIT SUPPLY
11C				3/4"			F.S.	0"	PLUMB. CONTR. TO EXTEND DRAIN LINE TO FLOOR SINK
14A		1/2"					S.O.	1' - 6"	
14B				3/4"			F.S.	0"	PLUMB. CONTR. TO EXTEND DRAIN LINE TO FLOOR SINK
14C				3/4"			F.S.	0"	PLUMB. CONTR. TO EXTEND DRAIN LINE TO FLOOR SINK
17A	1/2"						S.O.	1' - 6"	
17B		1/2"					S.O.	1' - 6"	
17C				1 1/2"			F.S.	0"	PLUMB. CONTR. TO EXTEND DRAIN LINE TO FLOOR SINK
18		1/2"					S.O.	4' - 0"	VERIFY- VENDOR PROVIDED EQUIPMENT
19		1/2"					S.O.	4' - 0"	VERIFY- VENDOR PROVIDED EQUIPMENT

PLUMBING NOTES

1. ALL PLUMBING OUTLETS AND CONNECTIONS SHOWN ON PLAN ARE FOR FOODSERVICE EQUIPMENT AND ARE FOR REFERENCE ONLY. PLUMBING CONTRACTOR TO VERIFY ALL LEFT TO RIGHT DIMENSIONAL LOCATIONS WITH THE KITCHEN EQUIPMENT CONTRACTOR'S SHOP DRAWINGS.
2. PLUMBING CONTRACTOR SHALL VERIFY ALL INCOMING SERVICES, MAKE ALL EXTERNAL & INTERNAL CONNECTIONS AND PROVIDE ALL PIPING, FITTINGS, MIXING VALVE(S) BACK FLOW PREVENTOR, PARTS, ETC. AS NECESSARY TO MAKE FOODSERVICE EQUIPMENT FUNCTIONAL.
3. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL INDIVIDUAL SHUT- OFF VALVES FOR ALL WATER & GAS LINES AS REQUIRED.
4. ALL FLOOR, WALL & CEILING PENETRATIONS MUST BE SEALED WATER TIGHT AND VERMIN PROOF.
5. ALL SYMBOLS NOTED AS 12", 18", 24", ETC. ARE FROM FINISHED FLOOR TO CENTERLINE OF STUB-OUT AT HEIGHT INDICATED ON PLAN. ALL SYMBOLS NOTED AS STUB-UP SHALL BE STUBBED-UP ABOVE FINISHED FLOOR AT HEIGHT INDICATED ON PLAN.
6. ALL FLOOR SINKS SHOWN ARE TO BE FLUSH WITH THE FINISHED FLOOR (UNLESS OTHERWISE REQUIRED BY LOCAL BUILDING AND/OR HEALTH CODE.) FLOOR SINKS SHALL BE LOCATED IN MANNER SO AS TO ALLOW FOR SIGHT INSPECTION BY CODE OFFICIALS.
7. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL REMOVABLE GRILLS OR COVERS FOR ALL FULLY OR PARTIALLY EXPOSED FLOOR SINKS.
8. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL TYPE "L" COPPER TUBING DRAIN LINES FROM ALL APPLICABLE EQUIPMENT TO FLOOR SINKS. ALL DRAIN LINES FROM ICE BIN/MACHINES, WALK-IN AND/OR BEER REFRIGERATION SYSTEMS, ETC. ARE TO BE INSULATED.
9. FLOOR SINKS FOR DISHWASHING MACHINES SHALL HAVE A MINIMUM OF A 3" CAST IRON DRAIN PIPE. PVC WILL MELT OR DEFORM FROM HEAT.
10. PLUMBING CONTRACTOR SHALL PROVIDE 140 DEGREE HOT WATER TO DISHWASHING MACHINE.
11. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL PRESSURE REGULATING VALVE FOR DISHWASHING MACHINE IF HOT WATER PRESSURE IS IN EXCESS OF 25 LBS. FLOW PRESSURE.
12. KITCHEN EQUIPMENT CONTRACTR TO PROVIDE GAS SHUT-OFF VALVE FOR MAIN GAS MANIFOLD UNDER THE EXHAUST HOOD. PLUMBING CONTRACTOR TO INSTALL VALVE.
13. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL LINE STRAINER AND/OR APPROVED FILTER ON GAS SUPPLY LINE.
14. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL HOT WATER TANK (UNLESS OTHERWISE NOTED.) UNIT SHALL BE SIZED FOR ADEQUATE WATER CONSUMPTION TO MEET ALL APPLICABLE CODES.
15. KITCHEN EQUIPMENT CONTRACTOR SHALL PROVIDE AND PLUMBING CONTRACTOR TO INSTALL ALL GAS PRESSURE REGULATORS (AS REQUIRED.)
16. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL 1/4 TURN BALL VALVES ON ALL WATER AND GAS LINES.
17. PLUMBING CONTRACTOR SHALL PROVIDE CHROME PLATED PIPES AND FITTINGS FOR ALL EXPOSED LINE RUNS (AS REQUIRED.) EXPOSED PIPING SHALL BE HELD OFF THE WALL FOR CLEANING.
18. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL GREASE TRAPS AS REQUIRED BY BUILDING/HEALTH CODE.
19. KITCHEN EQUIPMENT CONTRACTOR SHALL VERIFY ALL UTILITY SIZES AND LOAD REQUIREMENTS SHOWN ON PLANS.
20. KITCHEN EQUIPMENT CONTRACTOR AND PLUMBING CONTRACTOR SHALL COORDINATE AND VERIFY ALL DIMENSIONS AT THE JOB-SITE.
21. ALL WALK-IN DRAIN LINES TO HAVE A MINIMUM SLOPE OF 1" PER 1'-0". ALL DRAIN LINES SHALL BE MOUNTED 1" FROM WALLS.
22. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXTERNAL AND/OR INTERNAL HOOK-UPS OF WATER, GAS, STEAM, ETC. TO ALL NEW AND REUSED EQUIPMENT PER PLAN.
23. PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL INTER-CONNECTIONS REQUIRED DUE TO FIELD JOINTS REQUIRED IN FOODSERVICE EQUIPMENT. KITCHEN EQUIPMENT CONTRACTOR TO COORDINATE AS REQUIRED.
24. KITCHEN EQUIPMENT CONTRACTOR SHALL VERIFY ALL UTILITY LOADS SHOWN ON THIS PLAN. IF DISCREPENCIES ARE FOUND THE KITCHEN EQUIPMENT CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE CHANGES REQUIRED WITH ALL TRADES AND PARTIES INVOLVED.
25. KITCHEN EQUIPMENT CONTRACTOR SHALL FURNISH ALL FAUCETS LOOSE FOR PLUMBING CONTRACTOR TO INSTALL ON SINKS, COUNTERS, DISH TABLES, ETC...
26. PLUMBING CONTRACTOR TO PROVIDE & INSTALL ALL BACK FLOW PREVENTORS AS REQUIRED BY LOCAL CODE JURISDICTION. MAY BE REQUIRED ON ITEMS (BUT NOT LIMITED TO) STEAMERS, COMBI-OVENS, BEVERAGE DISPENSERS, ETC.S

FOR REFERENCE ONLY

Roy A. Mangan

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Proposed:
CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE
3800/340 ECOLOGY DRIVE ST. PETERS, MO 63376

No.	Date	Revision

FOODSERVICE EQUIPMENT SPOT PLUM

Project No.
Number

Sheet No.
FS1.2

Date
Issue Date

9/12/2025 3:57:19 PM
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FOR QUESTIONS, CALL THE
St. Louis & Little Rock Office
REGION 72
PHONE: (636) 225 - 3113
EMAIL: reg72@captiveaire.com

PATENT NUMBERS

EXHAUST HOODS ND-2/BD-2/SND-2 (CANADA) - CA PATENT 2520435 C.

HOOD INFORMATION – JOB#7584639

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	HOOD CONSTRUCTION	HOOD CONFIG END TO END	ROW
1		6024 ND-2	CAPTIVEAIRE	8' 0"	600 DEG	I	HEAVY	200	1600			4"	14"	1600	1497	-0.734"	430 SS 100%	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	UTILITY CABINET(S) LOCATION	SIZE	FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1		CAPTRATE SOLO FILTER	5	16"	16"	85% SEE FILTER SPEC	2	RECESSED ROUND	NO	RIGHT	12"x60"x24"	CORE PROTECTION	0	DCV-1111	1 LIGHT 1 FAN	YES	610 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1		FIELD WRAPPER 6.00" HIGH FRONT, LEFT, RIGHT.
		BACKSPLASH 110.00" HIGH X 144.00" LONG 430 SS VERTICAL.
		WC-CORE PROTECTION.

GREASE DUCT & CHIMNEY SPECIFICATIONS:
PROVIDE GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW" ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "DW" IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "DW" DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURES INSTALLATION GUIDE.
PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURES LISTING MODEL "DW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12". DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS.

IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 OR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW- 2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

CAPTIVEAIRE SYSTEMS RECOMMENDS THE USE OF LISTED, PRE-FABRICATED ROUND GREASE EXHAUST DUCT TO REDUCE STATIC PRESSURE IN THE SYSTEM, MINIMIZE INSTALLATION AND INSPECTION TIMES, AND ENSURE DUCT IS LIQUID TIGHT

HVAC DISTRIBUTION NOTE

HIGH VELOCITY DIFFUSERS OR HVAC RETURNS SHOULD NOT BE PLACED WITHIN TEN (10) FEET OF THE EXHAUST HOOD. PERFORATED DIFFUSERS ARE RECOMMENDED.

VERIFY CEILING HEIGHT

___' - ___"

HEIGHT REQUIRED TO VERIFY THAT HOOD FITS SPACE AND TO SIZE THE ENCLOSURE PANELS

CUSTOMER APPROVAL TO MANUFACTURE:

APPROVED AS NOTED ☐
APPROVED WITH NO EXCEPTION TAKEN ☐
REVISE AND RESUBMIT ☐
SIGNATURE _____
YOUR TITLE _____ DATE _____

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

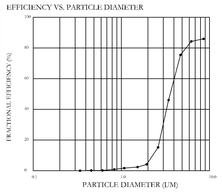
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

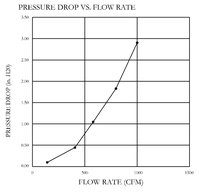
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC-S649.

BUILT IN ACCORDANCE WITH NFPA 96

1 CAPTIVEAIRE SHEET 1
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CAPTIVEAIRE DETAILS

Project No. 23121
Sheet No. FS2.0
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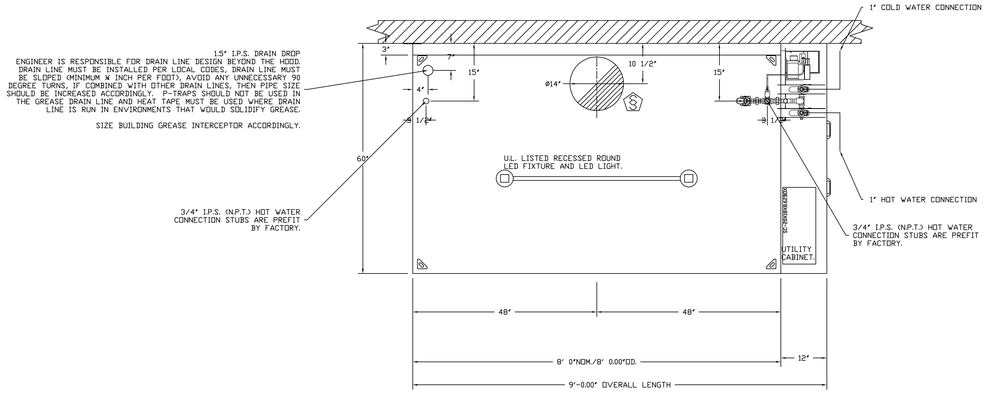
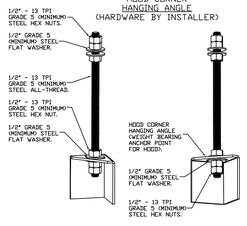


PLAN VIEW – HOOD #1
8' 0.00" LONG 6024ND-2

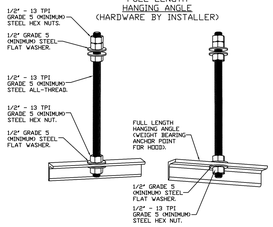
HOOD CORNER HANGING ANGLE (HARDWARE BY INSTALLER)



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

FULL LENGTH HANGING ANGLE (HARDWARE BY INSTALLER)



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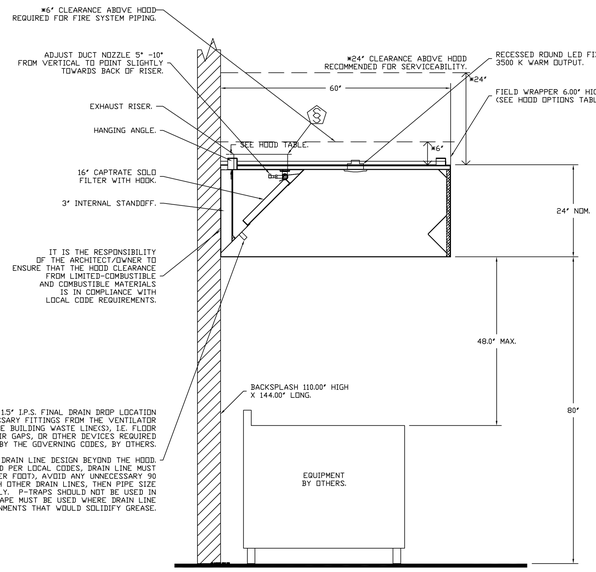
CLEARANCE TO COMBUSTIBLES

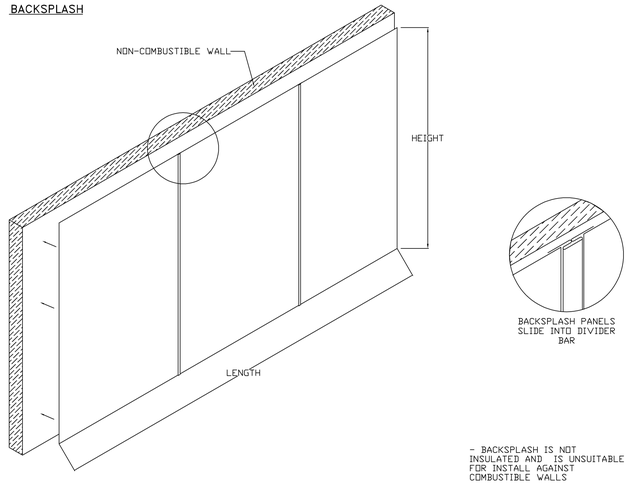
HOODS #	SURFACE	*CLEARANCE
1	TOP	18"
	FRONT	0"
	BACK	18"
	LEFT	18"
	RIGHT	0"

- *0" CLEARANCE TO COMBUSTIBLES CONFORMS TO UL710 STANDARD.
- HOOD MOUNTED UTILITY CABINETS REQUIRE 36" SERVICE CLEARANCE.



SECTION VIEW – MODEL 6024ND-2
HOOD – #1

BACKSPLASH



- BACKSPLASH IS NOT INSULATED AND IS UNSUITABLE FOR INSTALL AGAINST COMBUSTIBLE WALLS

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Project No. 23121
Sheet No. FS2.1
Date 09/16/2025

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FIRE SYSTEM INFORMATION - JOB#7584639

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1		CORE PROTECTION	0	0	0	FIRE CABINET RIGHT	RIGHT, HOOD 1

GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL	1.250	CAPTIVEAIRE SYSTEMS

FIRE SYSTEM PARTS LIST KEY

FIRE SYSTEM NO	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
1		0 - 0 - 12-F28021-32144-DT-360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO, CLOSE ON TEMP RISE AT 360°F. (A0034310).	1	0
		0 - 0 - A0029078 JUNCTION BOX FOR CORE PROTECTION MANUAL PULL STATION. 1.5" DEEP BACK BOX, BLUE.	1	0
		34 - 34 - A0019852 24VDC OR 120VAC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT.	1	0

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Project No. 23121

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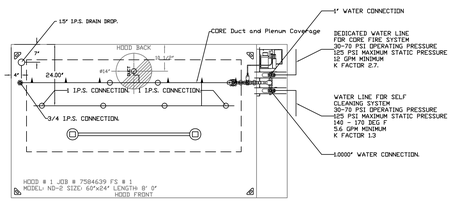
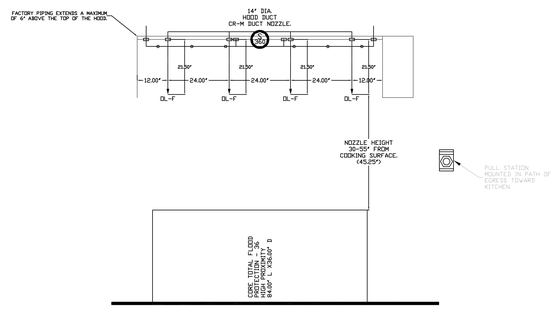
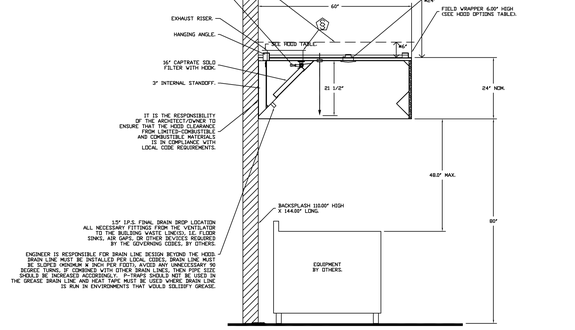
TOTAL SYSTEM INLET REQUIREMENTS			
	MINIMUM FLOW RATE (GPM)	MINIMUM PRESSURE (PSI)	WATER HEATER INSTANTANEOUS DEMAND (KBH)
TOTAL CORE INLET REQUIREMENTS	12	30	250
TOTAL SELF-CLEANING INLET REQUIREMENTS	5.6	30	

* OPERATING PRESSURE RANGE AT CORE PANEL GAUGE IS 30 TO 70 PSI. MAXIMUM STATIC PRESSURE IS 125 PSI.
* OPERATING PRESSURE RANGE AT Self Cleaning PANEL GAUGE IS 30 TO 70 PSI. MAXIMUM STATIC PRESSURE IS 125 PSI.
* HOT WATER TEMPERATURE RANGE FOR SELF CLEANING 140-170°F.







SECTION VIEW - MODEL 6024ND-2 HOOD - #1

DUCT NOZZLE AND PLENUM SPRAY BAR LOCATION

NOTES
- FIELD PIPE DROPS AS SHOWN
- ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

- THIS PRE-ENGINEERED FIRE SYSTEM COMPLIES WITH UL. 300 REQUIREMENTS.

- CORE / SELF CLEANING (UNITED STATES) - US PATENT 7963288 B2.
  CORE / SELF CLEANING (EUROPE) - EP PATENT 2274069 A1.
  CORE SUPERVISION - US PATENT 8378834 B1.
  CORE ELECTRICAL - US PATENT 8610601 B2.

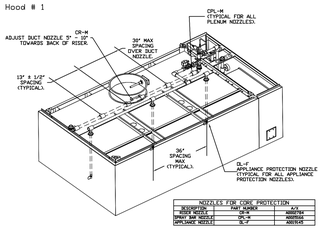
- OL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS
- CR-M NOZZLE PART NUMBER REPLACES 1/4TT+TP1530+CP1325
- CPL-M NOZZLE PART NUMBER REPLACES 1/4TT+TG-4.3W
- WK-F NOZZLE PART NUMBER REPLACES 3070-3/8H-0012O-SS

JOB #: 7584639.
JOB NAME: CENTRAL COUNTY FIRE.

SYSTEM SIZE: CORE
HOOD # 1 8' 0.00" LONG x 60" WIDE x 24" HIGH.
RISER # 1 SIZE: 14" DIA.
HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.

- SOLID-FUEL APPLIANCES (EXTRA HEAVY-DUTY RATED 700°F) REQUIRE AN ADDITIONAL FIRESTAT AT END OF THE EXHAUST DUCT NEAR EXHAUST FAN IF THE DUCT IS MORE THAN 10 FT LONG OR CONTAINS ANY HORIZONTAL SECTIONS.
- SOLID-FUEL APPLICATIONS WHERE THE DUCTWORK EXCEEDS 50 FT IN LENGTH WILL REQUIRE A THIRD FIRESTAT, MOUNTED IN A SERVICEABLE LOCATION, IDEALLY AT THE END OF A HORIZONTAL RUN OR TRANSITION. CONSULT ENGINEERING ON DUCT LENGTHS OVER 100 FT.
- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

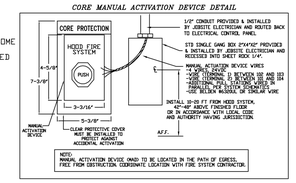
Hood # 1



NOZZLES FOR CORE PROTECTION		
DESCRIPTION	PART NUMBER	SIZE
DUCT NOZZLE	CR-M	1/4TT-TP1530
SPRAY BAR NOZZLE/ APPLIANCE NOZZLE	OL-M	4WWP8SS
	SL-F	AWWP4S

ISOMETRIC VIEWS ARE FOR GRAPHICAL REPRESENTATION OF TYPICAL NOZZLE PLACEMENTS AND TYPE. QUANTITIES OF NOZZLES WILL VARY.

CORE MANUAL ACTIVATION DEVICE DETAIL



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CAPTIVEAIRE DETAILS

Project No. 23121
Sheet No. FS2.3
Date 09/16/2025

SCALE: 1/16" = 1'-0" SCALE: 1/8" = 1'-0" SCALE: 3/32" = 1'-0" SCALE: 1/4" = 1'-0" SCALE: 3/16" = 1'-0" SCALE: 3/8" = 1'-0" SCALE: 1/2" = 1'-0" SCALE: 1" = 1'-0" SCALE: 3" = 1'-0"

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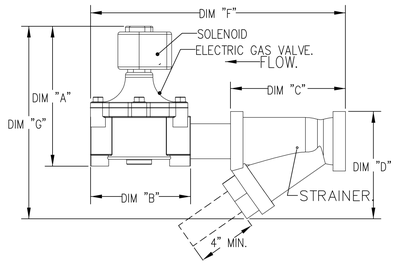
GAS VALVES AND STRAINERS

	GAS VALVE SIZING						GAS VALVE DIMENSIONS						INSTALLATION	PART NUMBERS		
	TYPE	SIZE	VOLTAGE	MIN. INLET PRESSURE	MAX. INLET PRESSURE	FLOW AT 1 IN.W.C. DROP NATURAL GAS	FLOW AT 1 IN.W.C. DROP PROPANE	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "F"	DIM "G"	PIPE ORIENTATION	GAS VALVE PART NUMBER	STRAINER PART NUMBER	GAS VALVE/STRAINER KIT
GAS VALVE FOR FS#1 →	ELECTRICAL	1-1/4"	120 VAC	0 PSI (0 IN.W.C.)	5 PSI (138 IN.W.C.)	1,925,000 BTU/HR	1,249,105 BTU/HR	7-5/8"	6-3/8"	5-1/8"	5-15/16"	13-1/2"	12-1/16"	HORIZONTAL/VERTICAL	8214265	4417K66	(SC)EGVA1-1/4

ELECTRIC GAS VALVES ONLY-SOLENOID ORIENTATION
3/4"-2" 120VAC GAS VALVES CAN BE MOUNTED WITH THE SOLENOID IN ANY POSITION AT OR ABOVE HORIZONTAL.
2 1/2"-3" 120VAC GAS VALVES MUST BE MOUNTED WITH THE SOLENOID VERTICAL AND UPRIGHT.
24VDC GAS VALVES MUST BE MOUNTED WITH THE SOLENOID VERTICAL AND UPRIGHT.

ALL GAS VALVES/STRAINERS
PROPER CLEARANCE MUST BE PROVIDED IN ORDER TO SERVICE THE STRAINERS A MINIMUM OF 4" CLEARANCE DISTANCE MUST BE PROVIDED AT THE BASE OF THE STRAINER CUSTOMER MUST VERIFY BTU CONSUMPTION AS WELL AS PRESSURE RATING SPECIFIC GRAVITY OF NATURAL GAS = 0.64, SPECIFIC GRAVITY OF LP = 1.52.

CALCULATIONS
TO CALCULATE GAS FLOW FOR OTHER THAN 1 IN.W.C. PRESSURE DROP
NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP) X NEW PRESSURE DROP$^{0.5}$
TO CALCULATE GAS FLOW FOR OTHER THAN 0.64 SPECIFIC GRAVITY
NEW BTU/HR = (BTU/HR AT 0.64) X (0.64 / NEW SPECIFIC GRAVITY)$^{0.5}$.



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Proposed:
CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE
380/340 ECOLOGY DRIVE ST. PETERS, MO 63376

No.	Date	Revision

CAPTIVEAIRE DETAILS

Project No. 23121

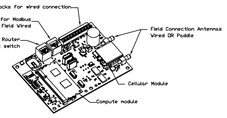
Sheet No. FS2.4

Date 09/16/2025

9/11/2025 3:15:08 PM
P:\Central County Fire - Catering Kitchen\FSDwgs\23121 Central Co Fire Training Facility_Fire & Rescue Headquarters_R23_FOODSERVICE.rvt

ELECTRICAL PACKAGE – JOB#7584639

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		TYPE	Φ	HP	VOLT	FLA
1		DCV-1111	UTILITY CABINET RIGHT	UTILITY CABINET RIGHT	1 LIGHT	SMART CONTROLS DCV					
				HOOD # 1	1 FAN						



CASLink Monitor and Control

– Hood control panel to support communications to cloud-based Building Management System.
– Hood Control Panel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR in the points list.
– Hood Control Panel to allow cloud-based Building Management System to control parameters outlined as CONTROL in the points list.
– Hood Control Panel to allow cloud-based Building Management System to implement SYSTEM ECONOMIZER control strategies for fully integrated Building Management.

MONITORING AND CONTROL POINTS LIST

DCV Packages	Function
Room Temperature	MONITOR
Duct Temperature(s)	MONITOR
MUA Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR
Fan Speed	MONITOR
Fan Amperage	MONITOR
Fan Power	MONITOR
VFD Faults	MONITOR
Controller Faults	MONITOR
Fan Faults	MONITOR
Fan Status	MONITOR
PCU Faults	MONITOR
PCU Filter Clog Percentages	MONITOR
Fire Condition	MONITOR
CORE Fire System	MONITOR
Building Presence	MONITOR
Prog Time Button	MONITOR & CONTROL
Fans Button	MONITOR & CONTROL
Lights Button	MONITOR & CONTROL
Wash Button	MONITOR & CONTROL

SC Packages	Function
Room Temperature(s)	MONITOR
Duct Temperature(s)	MONITOR
MUA Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR
Controller Faults	MONITOR
Fan Faults	MONITOR
Fan Status	MONITOR
PCU Faults	MONITOR
PCU Filter Clog Percentages	MONITOR
Fire Condition	MONITOR
CORE Fire System	MONITOR
Building Presence	MONITOR
Fans Button(s)	MONITOR & CONTROL
Lights Button(s)	MONITOR & CONTROL
Wash Button	MONITOR & CONTROL

JOB NO 7584639 | MODEL NUMBER DCV-1111 | JOB NAME Central County Fire | DRAWN BY – | DATE 6/18/2025 | SCHEMATIC TYPE INSTALL. | DWG NO ECP #1-1

DESCRIPTION OF OPERATION: Fire System #1 CORE PROTECTION.

DESCRIPTION OF OPERATION: Smoke Control w/ Wall Mounted Switches, Supply Fan, Exhaust Fan, & Supply Fan, Exhaust on in Fire, Lights out in Fire, Fans Smoke Control w/ Wall Mounted Switches, Supply Fan, Exhaust Fan, & Supply Fan, Exhaust on in Fire, Lights out in Fire, Fans Smoke Control w/ Wall Mounted Switches, Supply Fan, Exhaust Fan, & Supply Fan, Exhaust on in Fire, Lights out in Fire, Fans Smoke Control w/ Wall Mounted Switches, Supply Fan, Exhaust Fan, & Supply Fan, Exhaust on in Fire, Lights out in Fire, Fans

BREAKER PANEL TO PRIMARY CONTROL PANEL

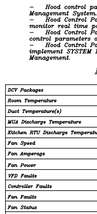
Responsibility- Electrician

BREAKER SIZE SHOWN IS THE MAXIMUM ALLOWED



CONTROL PANEL TO FANS

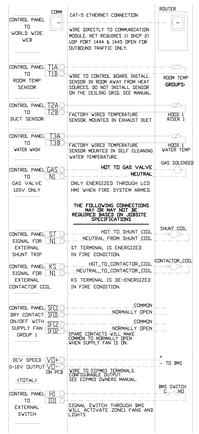
Responsibility- Electrician

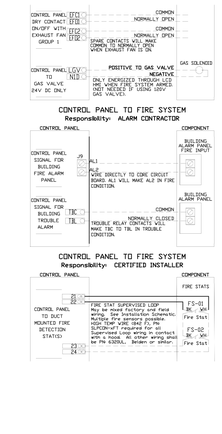


CONTROL PANEL TO ACCESSORY ITEMS

Responsibility- Electrician

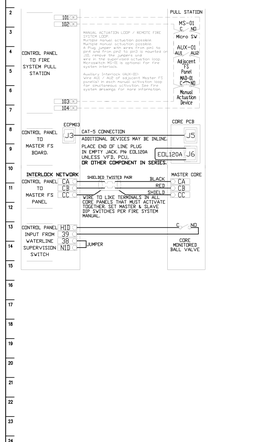






DESCRIPTION OF OPERATION:

Fire System #1 CORE PROTECTION.



JOB NO 7584639 | MODEL NUMBER DCV-1111 | JOB NAME Central County Fire | DRAWN BY – | DATE 6/18/2025 | SCHEMATIC TYPE INSTALL. | DWG NO ECP #1-3

DESCRIPTION OF OPERATION: Fire System #1 CORE PROTECTION.

CORE TOTAL FLOOD PROTECTION ELECTRICAL DETAIL

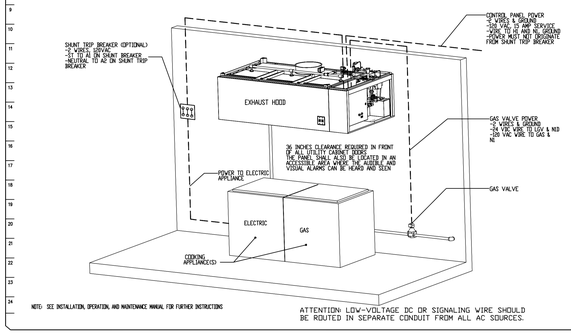
04/04/2014 Rev. 10

FS-1: MASTER

ELECTRICIAN
1. WIRE MAIN CONTROL PANEL PER ENCLOSED SCHEMATIC
2. WIRE SHUNT TRIP BREAKER PER SCHEMATIC
3. WIRE SHUNT TRIP BREAKER (OPTIONAL)
4. WIRE GAS APPLIANCE KILL SWITCH, IF EQUIPPED (OPTIONAL)
5. WIRE GAS VALVE

ELECTRICAL CONTRACTOR REQUIREMENT

ITEM	CONNECTION IN PANEL	CONNECTION IN DEVICE	VOLTAGE	AMPERAGE	COMMENTS
SHUNT TRIP BREAKER (OPTIONAL)	ST & N1	BREAKER COIL T1 & T2	120 VAC	< 4 AMPS	EST T2 AS ON SHUNT BREAKER COIL, AND NEUTRAL TO A2 ON SHUNT TRIP BREAKER COIL
CONTROL PANEL POWER	H & N1 = GROUND	CIRCUIT BREAKER	120 VAC	15 AMPS	CONTROL PANEL POWER MUST NOT BE RUN THROUGH SHUNT TRIP BREAKER
GAS APPLIANCE KILL SWITCH (OPTIONAL)	KTS & N2	KTS & N2	120 VAC	< 4 AMPS	KILL SWITCH TERMINALS MUST BE IN SERIES WITH OTHER KILL SWITCHES
REMOTE ANGUL AUTOMA (OPTIONAL)	AUL, AUZ	SOLENOID	120 VAC	< 4 AMPS	120V TO AUL, AUZ TO ANGUL ELECTRIC AUTOMAL ANGUL SOLENOID TO NEUTRAL
GAS VALVE	120 V N/A OF 24 VDC/ GAS & N1 OF GAS VALVE	RED=HIGH/GREEN	24 VDC OR 120 VAC	< 10 AMPS	IF 24 VDC – 2 WIRES & GROUND. SET TO MAKE CAPACITIVE RED AND GREEN TO GROUND IF 120 VAC – 2 WIRES & GROUND SET TO WIRE NO TO RED AND GREEN TO GROUND



NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

ATTENTION: LOW-VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES.

JOB NO 7584639 | MODEL NUMBER DCV-1111 | JOB NAME Central County Fire | DRAWN BY – | DATE 6/18/2025 | SCHEMATIC TYPE INSTALL. | DWG NO ECP #1-4

DESCRIPTION OF OPERATION: Fire System #1 CORE PROTECTION.

CORE TOTAL FLOOD PROTECTION LOW-VOLTAGE DETAIL

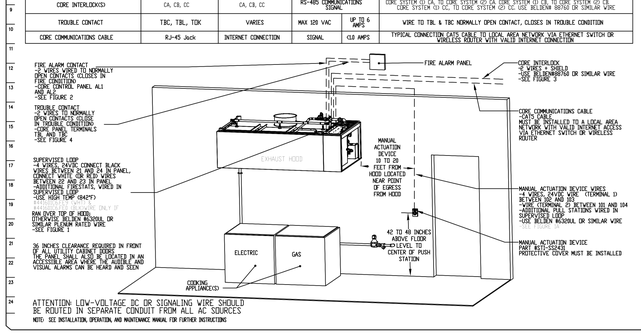
10/31/23 Rev. 13

FS-1: MASTER

ALARM CONTRACTOR:
1. WIRE MANUAL ACTUATION DEVICE(S), REMOTE FIRESTAT(S), CORE INTERLOCK(S), FIRE SENSOR(S) AND FIRE ALARM CONTACTS
2. PERFORM FINAL FIRE SYSTEM TEST
3. FILL SUPPRESSANT TANK

ALARM CONTRACTOR REQUIREMENT

ITEM	CONNECTION IN PANEL	CONNECTION ON DEVICE	VOLTAGE	AMPERAGE	COMMENTS
MANUAL ACTUATION DEVICE(S)	101 AND 104 102 AND 103	1 & 2	24 VDC	< 10 AMPS	WIRE MANUAL ACTUATION DEVICE TERMINAL 1 BETWEEN CORE PANEL TERMINALS 102 AND 103 WIRE MANUAL ACTUATION DEVICE TERMINAL 2 BETWEEN CORE PANEL TERMINALS 101 AND 104 JUMPER 101 TO 104 AND 102 TO 103 IF NO MANUAL ACTUATION DEVICE IS INSTALLED
MANUAL ACTUATION DEVICE COVER	N/A	N/A	N/A	N/A	MANUAL ACTUATION DEVICE COVER MUST BE INSTALLED IF DEVICE REMOVED FOR OTHER EXTENDED PERIODS
REMOTE FIRESTAT SENSOR(S)	21 AND 24 22 AND 23	BLACK AND WHITE	24 VDC	< 10 AMPS	WIRE FIRE STAT SENSOR BLACK WIRE BETWEEN CORE PANEL TERMINALS 22 AND 24 WIRE FIRE SENSOR BLACK WIRE BETWEEN HOOD CORE PANEL TERMINALS 23 AND 24 HIGH TEMP (MAX) ENVIRONMENTS MUST BE ENCAPSULATED (BEHIND OR INSIDE 3ft.) OF FAN OF HOOD, OTHERWISE BELOW ASSURE OR SIMILAR BASED WIRE SEE FIGURE 1
FIRE ALARM CONTACT	AL1, AL2	VARIES	50V MAX DC/ACV	UP TO 1 AMP	FIRE ALARM RELAY CONTACTS OF BUILDING ALARM LOCATED IN THE BUILDING FIRE ALARM PANEL
CORE INTERLOCK(S)	CA, CB, CC	CA, CB, CC	RS-485 COMMUNICATIONS SIGNAL		CORE SYSTEM (2) CA, TO CORE SYSTEM (2) CA CORE SYSTEM (2) CB, TO CORE SYSTEM (2) CB. CORE SYSTEM (2) CC, TO CORE SYSTEM (2) CC USE BELDEN 88760 OR SIMILAR WIRE
TROUBLE CONTACT	TBC, TBL, TDK	VARIES	MAX 120 VAC	UP TO 6 AMPS	WIRE TO TBL & TBC NORMALLY OPEN CONTACT, CLOSES IN TROUBLE CONDITION
CORE COMMUNICATIONS CABLE	RJ-45 Jack	INTERNET CONNECTION	SIGNAL	<1A AMPS	TYPICAL CONNECTION CAT5E CABLE TO LOCAL AREA NETWORK VIA ETHERNET SWITCH OR WIRELESS ROUTER WITH VALID INTERNET CONNECTION



ATTENTION: LOW-VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES

NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

1 CAPTIVEAIRE SHEET 6
1" = 1'-0"

REVISIONS

	DESCRIPTION	DATE:
1		
2		
3		
4		

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Central County Fire

DATE: 6/18/2025

DWG.#: 7584639

DRAWN BY: WW

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

MASTER DRAWING

SHEET NO. 6

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ST. PETERS, MO 63376
3800340 ECOLOGY DRIVE

No.	Date	Revision

CAPTIVEAIRE DETAILS

Project No. 23121

Sheet No. FS2.5

Date 09/16/2025

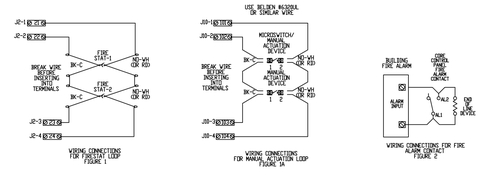
9/11/2025 3:15:18 PM
P:\Central County Fire - Catering Kitchen\FSD\wgs\23121 Central Co Fire Training Facility_Fire & Rescue Headquarters_R23_FOODSERVICE.rvt

JOB NO	MODEL NUMBER	DRAWN BY	SCHEMATIC TYPE INSTALL	DESCRIPTION OF OPERATION:
7584639	DCV-1111			Fire System #1 CORE PROTECTION
	JOB NAME Central County Fire	DATE 6/18/2025	ENG NO ECP #1-5	

CORE TOTAL FLOOD PROTECTION LOW-VOLTAGE FIGURES

10/01/2023 Rev. 17

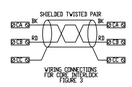
FS-1: MASTER



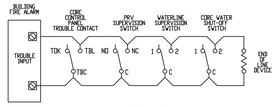
WIRING CONNECTIONS FOR FIRESTAT LOOP
FIGURE 1

WIRING CONNECTIONS FOR MANUAL ACTUATION LOOP
FIGURE 2A

WIRING CONNECTIONS FOR FIRE ALARM CONTACT
FIGURE 2



WIRING CONNECTIONS FOR CORE INTERLOCK
FIGURE 3



WIRING CONNECTIONS FOR TROUBLE CONTACT
FIGURE 4

ATTENTION: LOW-VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES

NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

JOB NO	MODEL NUMBER	DRAWN BY	SCHEMATIC TYPE INSTALL	DESCRIPTION OF OPERATION:
7584639	DCV-1111			Fire System #1 CORE PROTECTION
	JOB NAME Central County Fire	DATE 6/18/2025	ENG NO ECP #1-6	

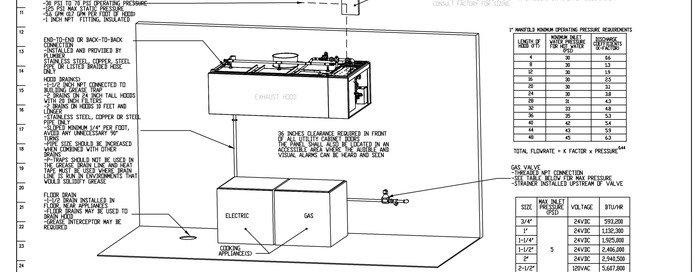
CORE TOTAL FLOOD PROTECTION PLUMBING DETAIL

10/01/2023 Rev. 17

FS-1: MASTER

PLUMBED:
1. CONNECT HOT WATER LINE, ##PVC, COPPER, STAINLESS STEEL PIPE OR LISTED BRAIDED HOSE ONLY
2. CONNECT HOOD DRAIN(S) STAINLESS STEEL, COPPER OR STEEL PIPE ONLY
3. CONNECT END-TO-END OR BACK-TO-BACK CONNECTIONS (PLUMBING IS FIELD SUPPLIED FOR THIS FIELD PLUMBING MUST NOT EXCEED HEIGHT OF VACUUM BREAKER IN ASSEMBLY SHOWN)
4. PLUMB GAS VALVE. STRAINER MUST BE INSTALLED UPSTREAM OF VALVE
5. INSTALL FLOOR DRAIN
6. INSTALL BACKFLOW PREVENTER IF CODE REQUIRES

PLUMBING CONTRACTOR REQUIREMENT					
ITEM	CONNECTION	TEMPERATURE	PRESSURE	FLOW RATE	COMMENTS
HOT WATER LINE	1 INCH NPT	140 to 170°F	30 PSI TO 70 PSI	56 GPM - 0.7 GPM PER FOOT OF HOOD	INSULATE HOT WATER PIPE, MINIMUM PRESSURE DEPENDENT ON LENGTH AND CONFIGURATION OF HOOD SYSTEM
HOOD DRAIN(S)	1-1/2 INCH NPT	N/A	GRAVITY DRAIN	SEE ABOVE	2 DRAINS ON 24 INCH TALL HOODS WITH 20 INCH TALL FILTERS AND HOODS 10 FEET AND LONGER
END-TO-END CORE CONNECTION	VARIES	N/A	N/A	N/A	CONNECT WITH NPT PIPE, SEAL ALL THREADS. HOOD CONNECTION PROVIDED
BACK-TO-BACK CORE CONNECTION	VARIES	N/A	N/A	N/A	CONNECT WITH NPT PIPE, SEAL ALL THREADS. HOOD CONNECTION PROVIDED
GAS VALVE	VARIES	N/A	SEE TABLE	N/A	UP TO 2 INCHES NPT WITH 24V CONTROLS, 2-1/2 AND 3 INCH USE 120V CONTROL
FLOOR DRAIN(S)	1-1/2 INCH	N/A	GRAVITY DRAIN	N/A	USED TO HELP CLEAN UP FIRE SYSTEM DISCHARGE, GREASE INTERCEPTOR MAY BE REQUIRED
BACKFLOW PREVENTER DRAIN LINE (OPTIONAL)	INLET/OUTLET DRAIN	N/A	VARIES	N/A	INSTALLED WHEN PACKAGE HAS A BACKFLOW PREVENTER VALVE. SEE BACKFLOW PREVENTER VALVE MANUAL FOR DETAILS



NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS
##PVC PIPING CANNOT BE WITHIN 10 FT OF HOOD, CONNECTIONS TO THE MANIFOLD MUST BE HARD PIPED WITH COPPER, OR STAINLESS STEEL.

1" MANIFOLD MINIMUM OPERATING PRESSURE REQUIREMENTS

LENGTH OF HOOD (FT)	MINIMUM INLET WATER PRESSURE FOR HOT WATER (PSI)	MINIMUM INLET WATER PRESSURE FOR CORE PROTECTION (PSI)
4	30	66
8	30	53
12	30	19
16	30	03
20	30	31
24	30	38
28	31	43
32	33	48
36	35	53
40	42	54
44	43	59
48	45	63

TOTAL FLOWRATE = K FACTOR x PRESSURE$^{0.44}$

GAS VALVE
-THREADED NPT CONNECTION
-SEE TABLE BELOW FOR MAX PRESSURE
-STRAINER INSTALLED UPSTREAM OF VALVE

SIZE	MAX INLET PRESSURE (PSI)	VOLTAGE	BTU/HR
3/4"	5	24VAC	593,200
1"		24VAC	1,132,300
1-1/4"		24VAC	1,925,000
1-1/2"		24VAC	2,486,000
2"		24VAC	2,948,500
2-1/2"		120VAC	5,667,800
3"		120VAC	5,662,700

JOB NO	MODEL NUMBER	DRAWN BY	SCHEMATIC TYPE INSTALL	DESCRIPTION OF OPERATION:
7584639	DCV-1111			Fire System #1 CORE PROTECTION
	JOB NAME Central County Fire	DATE 6/18/2025	ENG NO ECP #1-7	

CORE TOTAL FLOOD PROTECTION SPRINKLER DETAIL

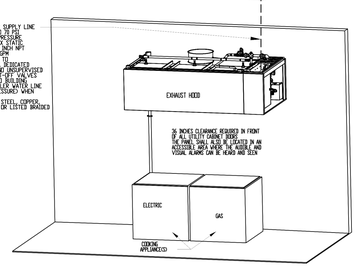
10/01/2023 Rev. 15

FS-1: MASTER

BUILDING SPRINKLER CONTRACTOR:
1. CONNECT CORE WATER LINE TO BUILDING WET SPRINKLER SYSTEM. STAINLESS STEEL, COPPER, STEEL, PIPE OR LISTED BRAIDED HOSE ONLY

SPRINKLER CONTRACTOR REQUIREMENT					
ITEM	CONNECTION	OPERATING PRESSURE	K-FACTOR	FLOW RATE	COMMENTS
CORE WATER SUPPLY LINE	1 INCH NPT	30.00 PSI TO 70 PSI	2.7	12 GPM (1.5 GPM PER FOOT OF HOOD)	WATER LINE MUST BE SUPERVISED AND HAVE NO UNSUPERVISED MANUAL SHUT-OFF VALVES MINIMUM PRESSURE AND FLOWRATE DEPENDENT ON LENGTH OF HOOD SYSTEM

PRESSURE REGULATOR VALVE (PRV) -
-PRV INCLUDED UNLESS BUILDING DESIGN PRESSURE, MUST BE PROVIDED, INSTALLED, AND ADJUSTED BY THE SPRINKLER CONTRACTOR TO MEET INCOMING PRESSURE REQUIREMENTS.
-A REGULATOR SUCH AS THE WATTS BRAND MODEL NUMBER LFN45BUDS-Z3 OR THE WILKINS 500XL PARTS SETS SHOULD BE SATISFACTORY, OR AS APPROVED BY THE FIRE MARSHAL OR LOCAL AUTHORITY HAVING JURISDICTION OVER THE FIRE SUPPRESSION SYSTEM

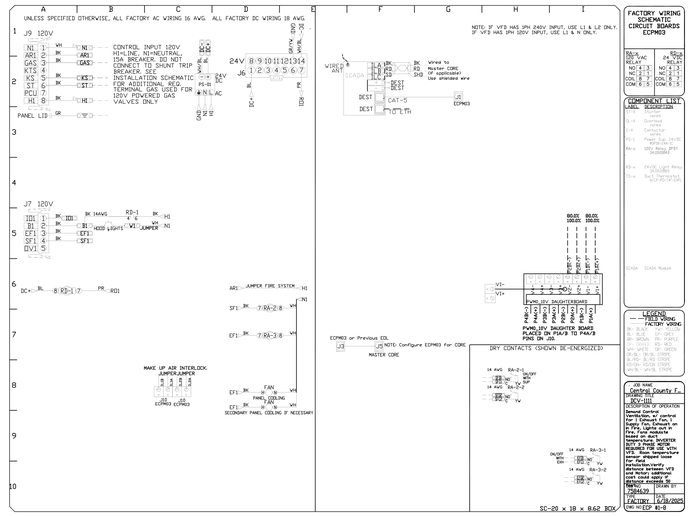


MINIMUM OPERATING PRESSURE REQUIREMENTS			
LENGTH OF HOOD (FT)	MINIMUM INLET WATER PRESSURE FOR HOT WATER (PSI)	MINIMUM INLET WATER PRESSURE FOR CORE PROTECTION (PSI)	DISCHARGE COEFFICIENTS (K-FACTOR)
4	30	30	1.3
8	30	30	2.6
12	30	30	4.0
16	30	30	5.4
20	30	30	6.7
24	32	36	8.1
28	31	33	9.6
32	33	35	10.0
36	25	45	10.1
40	42	50	10.7
44	43	55	11.3
48	45	60	11.9

TOTAL FLOWRATE = K FACTOR x PRESSURE$^{0.44}$

NOZZLE HEIGHTS ABOVE HAZARD		
NOZZLE PART NUMBER	NOZZLE ABOVE HAZARD	
	MIN	MAX
CR-M	30"	55"

NOZZLES FOR CORE PROTECTION			
DESCRIPTION	PART NUMBER	NACOLA	FLOW RATE
RISER NOZZLE	CR-M	A0002784	2.6 GPM @ 30 PSI
SPRAY BAR NOZZLE	CPL-M	A0025566	8.7 GPM @ 30 PSI



FACTORY WIRING SCHEMATIC CIRCUIT BOARDS ECPM03

COMPONENT LIST

LEGEND

FACTORY WIRING

JOB NAME	DRAWN BY
Central County Fire	
CONTROL UNIT	
DCV-1111	
DESCRIPTION OF OPERATION	
Exhaust Control Combination, w/ control for (1) Exhaust Fan & (1) Supply Fan. Exhaust on w/ Fire, Lights out w/ Fire, Supply Fan timed on w/ Exhaust Fan. Supply Fan BUT 3 Fans MUST be running before Fire. Fan Temperature sensor shipped loose for field installation/verify Exhaust Fan Rotation and Rotary confirmed before operation. Network module is required.	
JOB NO	DATE
7584639	FACTORY 6/18/2025
ENG NO ECP #1-8	

SC-20 x 18 x 8.62 BOX

CAPTIVEAIRE
11808 Borman Drive, St. Louis, MO, 63146 PHONE: (636) 225 - 3113 EMAIL: reg72@captiveaire.com
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St. Louis & Little Rock Office

REVISIONS

	DESCRIPTION	DATE:
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Central County Fire

DATE: 6/18/2025

DWG.#: 7584639

DRAWN BY: WW

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

MASTER DRAWING

SHEET NO. 7

1 CAPTIVEAIRE SHEET 7
1" = 1'-0"

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ST. PETERS, MO 63376
380/340 ECOLOGY DRIVE

No.	Date	Revision

CAPTIVEAIRE DETAILS

Project No. 23121

Sheet No. FS2.6

Date 09/16/2025

9/11/2025 3:15:28 PM
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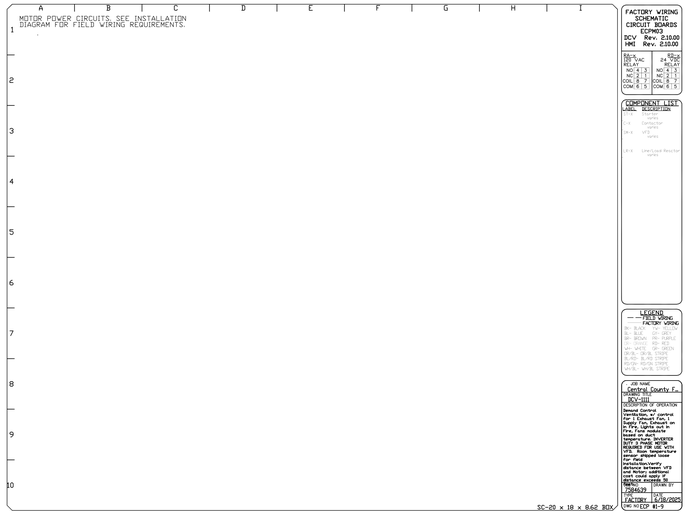

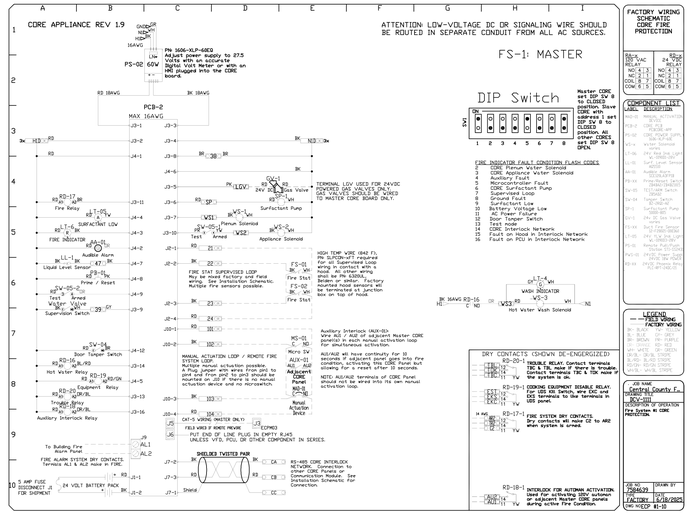

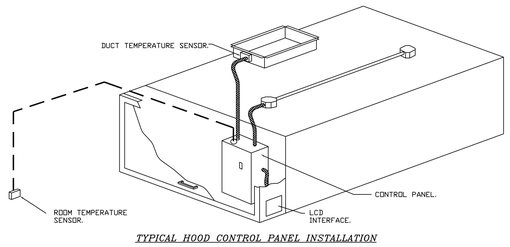

TYPICAL HOOD CONTROL PANEL INSTALLATION

DEMAND CONTROL VENTILATION HOOD CONTROL PANEL SPECIFICATIONS:

- CONTROLS SHALL BE LISTED BY ETL (UL 508A) AND SHALL COMPLY WITH DEMAND VENTILATION SYSTEM TURNDOWN REQUIREMENTS OUTLINED IN IECC 403.7.5 (2021).
- THE CONTROL ENCLOSURE SHALL BE NEMA 1 RATED AND LISTED FOR INSTALLATION INSIDE OF THE EXHAUST HOOD UTILITY CABINET. THE CONTROL ENCLOSURE MAY BE CONSTRUCTED OF STAINLESS STEEL OR PAINTED STEEL.
- TEMPERATURE PROBE(S) LOCATED IN THE EXHAUST DUCT RISER(S) SHALL BE CONSTRUCTED OF STAINLESS STEEL.
- A DIGITAL CONTROLLER SHALL BE PROVIDED TO ACTIVATE THE HOOD EXHAUST FANS DYNAMICALLY BASED ON A FIXED DIFFERENTIAL BETWEEN THE AMBIENT AND DUCT TEMPERATURES SENSORS. THIS FUNCTION SHALL MEET THE REQUIREMENTS OF IMC 507.1.1.
- A DIGITAL CONTROLLER SHALL PROVIDE ADJUSTABLE HYSTERESIS SETTINGS TO PREVENT CYCLING OF THE FANS AFTER THE COOKING APPLIANCES HAVE BEEN TURNED OFF AND/OR THE HEAT IN THE EXHAUST SYSTEM IS REDUCED.
- A DIGITAL CONTROLLER SHALL PROVIDE AN ADJUSTABLE MINIMUM FAN RUN-TIME SETTING TO PREVENT FAN CYCLING.
- VARIABLE FREQUENCY DRIVES (VFDS) SHALL BE PROVIDED FOR FANS AS REQUIRED. THE DIGITAL CONTROLLER SHALL MODULATE THE VFDS BETWEEN A MINIMUM SETPOINT AND A MAXIMUM SETPOINT ON DEMAND. THE DUCT TEMPERATURE SENSOR INPUT(S) TO THE DIGITAL CONTROLLER SHALL BE USED TO CALCULATE THE SPEED REFERENCE SIGNAL.
- THE VFD SPEED RANGE OF OPERATION SHALL BE FROM 0% TO 100% FOR THE SYSTEM, WITH THE ACTUAL MINIMUM SPEED SET AS REQUIRED TO MEET MINIMUM VENTILATION REQUIREMENTS.
- AN INTERNAL ALGORITHM TO THE DIGITAL CONTROLLER SHALL MODULATE SUPPLY FAN VFD SPEED PROPORTIONAL TO ALL EXHAUST FANS THAT ARE LOCATED IN THE SAME FAN GROUP AS THE SUPPLY FAN.
- THE SYSTEM SHALL OPERATE IN PREP MODE DURING LIGHT COOKING LOAD OR COOL DOWN MODE WHEN SUFFICIENT HEAT REMAINS UNDERNEATH THE HOOD SYSTEM AFTER COOKING OPERATIONS HAVE COMPLETED. OPERATION DURING EITHER OF THESE PERIODS WILL DISABLE THE SUPPLY FANS AND PROVIDE AN EXHAUST FAN SPEED THAT IS EQUAL TO THE MINIMUM VENTILATION REQUIREMENT.
- A DIGITAL CONTROLLER SHALL DISABLE THE SUPPLY FAN(S), ACTIVATE THE EXHAUST FAN(S), ACTIVATE THE APPLIANCE SHUNT TRIP, AND DISABLE AN ELECTRIC GAS VALVE AUTOMATICALLY WHEN FIRE CONDITION IS DETECTED ON A COVERED HOOD.
- A DIGITAL CONTROLLER SHALL ALLOW FOR EXTERNAL BMS FAN CONTROL VIA DRY CONTACT (EXTERNAL CONTROL SHALL NOT OVERRIDE FAN OPERATION LOGIC AS REQUIRED BY CODE).
- AN LCD INTERFACE SHALL BE PROVIDED WITH THE FOLLOWING FEATURES:
  - A. ON/OFF PUSH BUTTON FAN & LIGHT SWITCH ACTIVATION.
  - B. INTEGRATED GAS VALVE RESET FOR ELECTRONIC GAS VALVES (NO RESET RELAY REQUIRED).
  - C. VFD FAULT DISPLAY WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  - D. DUCT TEMPERATURE SENSOR FAILURE DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  - E. MIS-WIRED DUCT TEMPERATURE SENSOR DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  - F. A SINGLE LOW VOLTAGE CAT-5 RJ45 WIRING CONNECTION.
  - G. AN ENERGY SAVINGS INDICATOR THAT UTILIZES MEASURED KWH FROM THE VFDS.

SEQUENCE OF OPERATIONS:

THE HOOD CONTROL PANEL IS CAPABLE OF OPERATING IN ONE OR MORE OF THE FOLLOWING STATES AT ANY GIVEN TIME:

- AUTOMATIC: THE SYSTEM OPERATES BASED ON THE DIFFERENTIAL BETWEEN ROOM TEMPERATURE AND THE TEMPERATURE AT THE HOOD CAVITY OR EXHAUST DUCT COLLAR. FANS ACTIVATE AT A CONFIGURABLE TEMPERATURE DIFFERENTIAL THRESHOLD. DEPENDING ON THE JOB CONFIGURATION EACH FAN ZONE CAN BE CONFIGURED AS STATIC OR DYNAMIC. THESE TERMS REFER TO WHETHER A VARIABLE MOTOR (SUCH AS EC MOTORS OR VFD DRIVEN MOTORS) MODULATE WITH TEMPERATURE. IF THE PANEL IS EQUIPPED WITH VARIABLE SPEED FANS AND THE ZONE IS DEFINED AS 'DYNAMIC', THESE WILL MODULATE WITHIN A USER-DEFINED RANGE BASED ON THE TEMPERATURE DIFFERENTIAL. PANELS EQUIPPED WITH VARIABLE SPEED FANS AND A FAN ZONE DEFINED AS 'STATIC', FANS WILL RUN AT A SET SPEED CALCULATED FOR THE DRIVE. DEMAND CONTROL VENTILATION SYSTEMS ARE CAPABLE OF MODULATING EXHAUST AND MAKE UP AIR FAN SPEEDS PER THE REQUIREMENTS OUTLINED IN IECC 403.7.5 (2021).
- MANUAL: THE SYSTEM OPERATES BASED ON HUMAN INPUT FROM AN HMI.
- SCHEDULE: A WEEKLY SCHEDULE CAN BE SET TO RUN FANS FOR A SPECIFIED PERIOD THROUGHOUT THE DAY. THERE ARE THREE OCCUPIED TIMES PER DAY TO ALLOW FOR THE USER TO SET UP A TIME THAT IS SUITABLE TO THEIR NEEDS. ANY TIME THAT IS WITHIN THE DEFINED OCCUPIED TIME, THE SYSTEM WILL RUN AT MODULATION MODE AND FOLLOW THE FAN PROCEDURE ALGORITHM BASED ON TEMPERATURE DURING THIS TIME. DURING UNOCCUPIED TIME, THE SYSTEM WILL HAVE AN EXTRA OFFSET TO PREVENT UNINTENDED ACTIVATION OF THE SYSTEM DURING A TIME WHERE THE SYSTEM IS NOT BEING OCCUPIED.
- OTHER: THE SYSTEM OPERATES BASED ON THE INPUT FROM AN EXTERNAL SOURCE (DDC, BMS OR HARD-WIRED INTERLOCK).
- FIRE: UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM, THE EXHAUST FAN WILL COME ON OR CONTINUE TO TO RUN, THE HOOD MAKEUP AIR WILL SHUTDOWN, AND A SIGNAL WILL BE SENT FOR ACTIVATING THE SHUNT TRIP BREAKER PROVIDED BY THE ELECTRICIAN. FUEL GAS WILL SHUT OFF VIA A MECHANICAL/ELECTRICAL GAS VALVE ACTUATED BY THE HOOD FIRE SUPPRESSION SYSTEM.

1 CAPTIVEAIRE SHEET 8
1" = 1'-0"

REVISIONS

	DESCRIPTION	DATE:
1		
2		
3		
4		

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Preliminary Drawing - Not For Construction Use for quoting purposes only

Central County Fire

DATE: 6/18/2025
DWG.#: 7584639
DRAWN BY: WW
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 8

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380/340 ECOLOGY DRIVE ST. PETERS, MO 63376

No.	Date	Revision

CAPTIVEAIRE DETAILS

Project No. 23121
Sheet No. FS2.7
Date 09/16/2025

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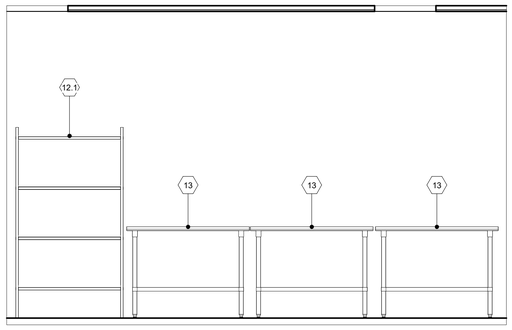
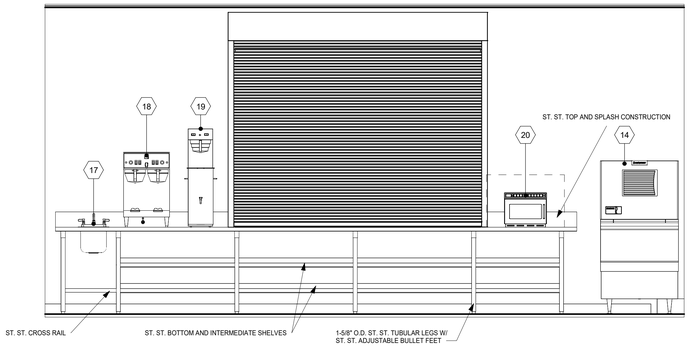


2 Elevation Item #13- Work Tables
1/2" = 1'-0"



1 Elevation Item #16- Front Counter
1/2" = 1'-0"

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No.	Date	Revision

FOODSERVICE EQUIPMENT ELEVATION

Project No.
23121

Sheet No.
FS3.0

Date
09/16/2025

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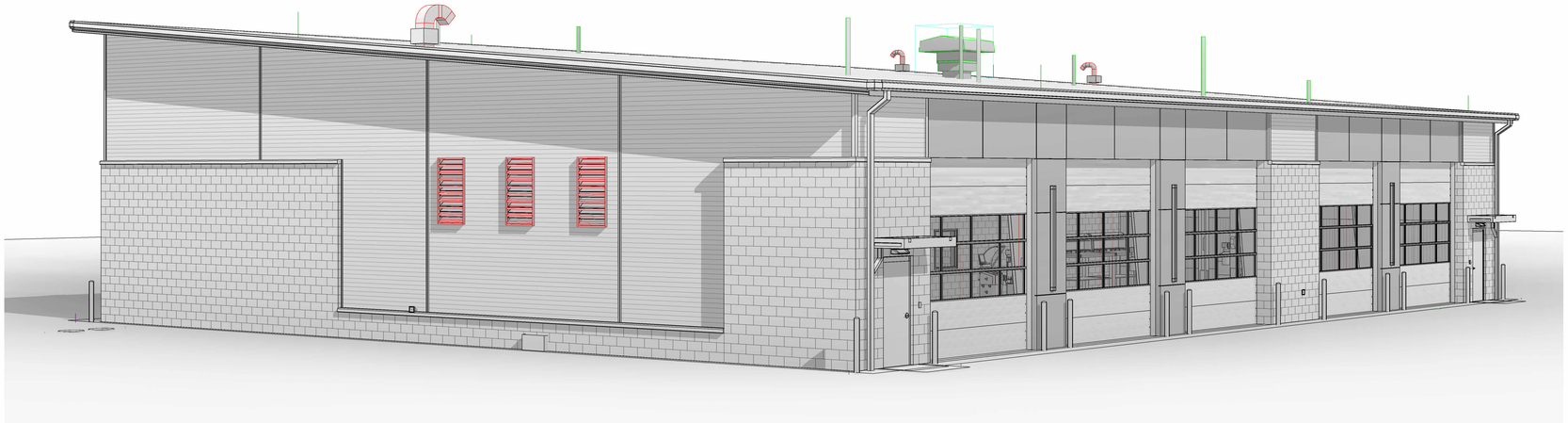
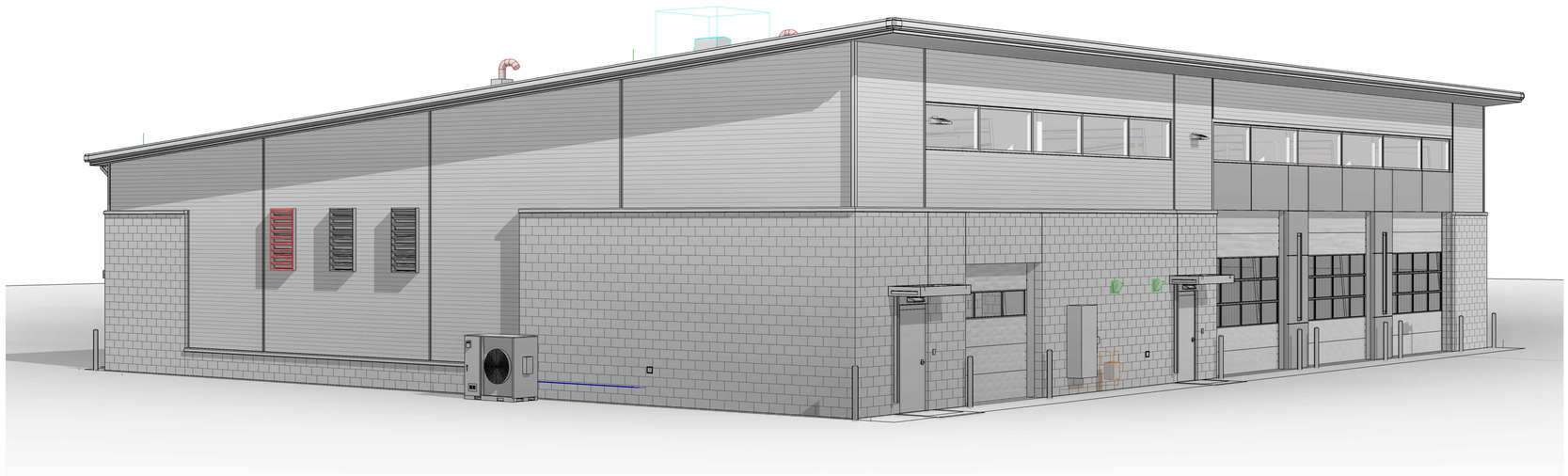


C1 MAINTENANCE FACILITY 3D SOUTHEAST



A1 MAINTENANCE FACILITY 3D NORTHWEST

SHEET INDEX - MAINTENANCE FACILITY

SHEET NUMBER	SHEET NAME	09/16/2025 - BID / PERMIT
ARCHITECTURAL		
A200	MAINTENANCE FACILITY 3D	■
A204	LIFE SAFETY PLAN	■
A211	FLOOR PLAN	■
A212	REFLECTED CEILING PLAN	■
A213	ROOF PLAN	■
A221	EXTERIOR ELEVATIONS	■
A231	BUILDING SECTIONS	■
A232	WALL SECTIONS	■
A233	WALL SECTIONS	■
A234	WALL SECTIONS	■
A241	ENLARGED PLANS & ELEVATIONS	■
A242	INTERIOR ELEVATIONS	■
A243	INTERIOR ELEVATIONS	■
A251	DETAILS	■
A252	DETAILS	■
A253	DETAILS	■
A254	DETAILS	■
A255	DETAILS	■
A256	OIL PIT DETAILS	■
A261	DOOR SCHEDULE & DETAILS	■
A262	STAIR PLAN/DETAILS	■
A263	CASEWORK DETAILS	■
A281	FURNITURE/EQUIPMENT PLAN	■
I201	FINISH FLOOR PLAN	■
STRUCTURAL		
S221	FDN PLAN & MEZZANINE FRAMING PLAN	■
S231	MAINT. & STORAGE SECTIONS & DTLS	■
S232	MAINT. & STORAGE SECTIONS & DTLS	■
MECHANICAL		
M221	MAINT. MECHANICAL PLAN	■
M222	MAINT. MECHANICAL ROOF PLAN	■
PLUMBING		
P220	MAINT. PLUMBING UNDERFLOOR PLAN	■
P221	MAINT. PLUMBING PLAN	■
P222	MAINT. PLUMBING ROOF PLAN	■
P230	ENLARGED MAINT. PLUMBING PLAN	■
P241	MAINT. PLUMBING ISOMETRICS	■
ELECTRICAL		
E221	MAINTENANCE POWER PLAN	■
E222	MAINT. EQUIPMENT POWER PLAN	■
E223	MAINT. EQUIPMENT POWER ROOF PLAN	■
E231	MAINT. LIGHTING PLAN	■
E241	MAINT. AUXILIARY PLAN	■
E261	MAINT. PANEL SCHEDULES	■

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MAINTENANCE FACILITY 3D

Project No.
23121

Sheet No.
A200

Date
09/16/2025

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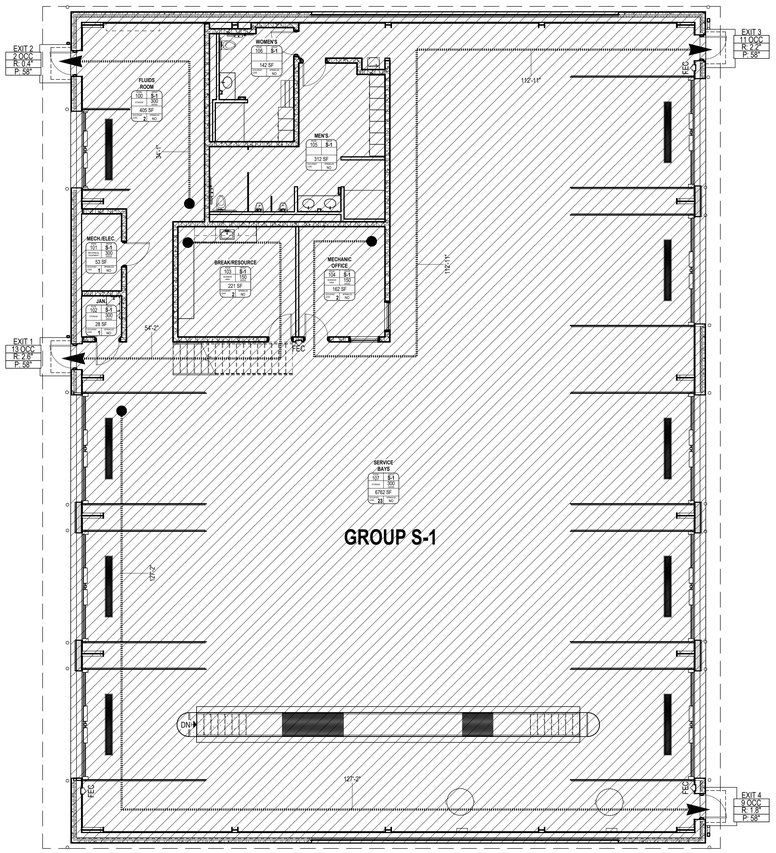
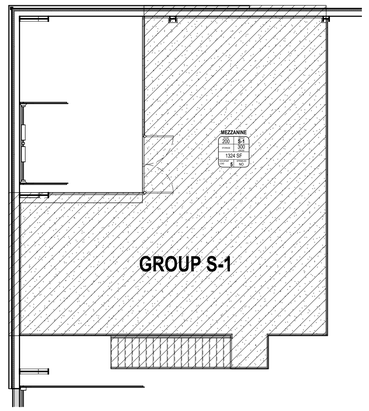


A1 LIFE SAFETY PLAN - FIRST FLOOR
1/8" = 1'-0"



C4 LIFE SAFETY PLAN - MEZZANINE
1/8" = 1'-0"

LIFE SAFETY PLAN LEGEND

SYMBOL	DESCRIPTION
XXX / AREA / X / XX	**ROOM OCCUPANCY LOAD TAG** OCCUPANCY CLASSIFICATION MAX. FLOOR AREA ALLOWANCES PER OCCUPANT ROOM AREA (SQUARE FEET) OCCUPANCY LOAD INDICATES SPACE IS SPRINKLERED (YES/NO)
XXXX / M: XXX / R: XX" / P: XX"	**DOOR EGRESS TAG** # OF OCCUPANTS ALLOWED TO EGRESS THRU OPENING PER CODE WIDTH REQUIRED WIDTH PROVIDED
F.E.	FIRE EXTINGUISHER ON WALL MOUNTED BRACKET.
F.E.C.	FIRE EXTINGUISHER IN CABINET.
	EXIT SIGN - SEE ELECTRICAL DRAWINGS.
	EXIT SIGN WITH EMERGENCY LIGHTS - SEE ELECTRICAL DRAWINGS.
	EMERGENCY LIGHT - SEE ELECTRICAL DRAWINGS.
8'-8"	**EGRESS PATH** DISTANCE OF PATH

EMERGENCY LIGHTS ARE LOCATED OVER ALL EXT. EXIT DOORS - SEE ELECTRICAL DRAWINGS.

CODE INFORMATION

APPLICABLE CODES

- 2021 INTERNATIONAL BUILDING CODE
- 2021 INTERNATIONAL FIRE CODE
- 2020 NATIONAL ELECTRICAL CODE (NFPA 70)
- 2021 INTERNATIONAL ENERGY CONSERVATION CODE
- 2021 INTERNATIONAL MECHANICAL CODE
- 2021 INTERNATIONAL FUEL GAS CODE
- 2021 INTERNATIONAL PLUMBING CODE
- 2021 INTERNATIONAL PROPERTY MAINTENANCE CODE
- 2020 ICC 500 (STORM SHELTER CODE)

ALLOWABLE BUILDING HEIGHTS & AREAS

- USE GROUP: S-1 (PER IBC SECTION 303.4)
- CONSTRUCTION TYPE: IIB (PER IBC SECTION 602.5)

ALLOWABLE AREAS - PER IBC TABLE 506.2: **ACTUAL AREA**
OCCUPANCIES: S-1 - 17,500 SF 8988 SF

ALLOWABLE STORIES - PER IBC TABLE 504.4: **ACTUAL STORIES**
OCCUPANCIES: S-1 - 2 1

ALLOWABLE HEIGHT - PER IBC TABLE 504.3: **ACTUAL HEIGHT**
OCCUPANCIES: S-1 - 55' - 0" 25' - 0"

FIRE RESISTANCE RATING REQUIREMENTS

TYPE IIB CONSTRUCTION

STRUCTURAL FRAME:	0 HR
BEARING WALLS	
EXTERIOR:	0 HR
INTERIOR:	0 HR
NON-BEARING WALL & PARTITION	
INTERIOR:	0 HR
FLOOR CONSTRUCTION	
INCLUDING SUPPORTING BEAMS & JOISTS:	0 HR
ROOF CONSTRUCTION	
INCLUDING SUPPORTING BEAMS & JOISTS:	0 HR

MEANS OF EGRESS

OCCUPANT LOAD CALCULATION BASED ON TABLE 1004.5 (IBC 2021)

BUILDING TYPE	NAME	AREA	LOAD FACTOR	OCCUPANCY LOAD
S-1	FLUIDS ROOM	397 SF	100 SF	1
	MECH/ELEC	59 SF	300 SF	1
	JANITOR	28 SF	300 SF	1
	BREAK/RESOURCE	221 SF	150 SF	2
	MECHANIC OFFICE	162 SF	150 SF	2
	SERVICE BAYS	6763 SF	300 SF	23
	MEZZANINE	1314 SF	300 SF	5
			TOTAL OCCUPANT LOAD (TABLE 1004.5)=	35

THE BREAK/RESOURCE ROOM AND MECHANIC OFFICE ARE CLASSIFIED AS GROUP B ACCESSORY OCCUPANCIES PER IBC 508.2. EACH IS LESS THAN 10% OF THE TOTAL BUILDING AREA AND SUPPORTS THE PRIMARY S-1 OCCUPANCY. NO FIRE RESISTANCE SEPARATION IS REQUIRED.

EXIT TRAVEL DISTANCE: (IBC 2021 TABLE 1017.2)
(S-1) 200 FT MAX (WITHOUT SPRINKLER SYSTEM)

CORRIDOR RATING: (IBC 2021 TABLE 1020.2)
OCCUPANT LOAD SERVED BY CORRIDOR IS LESS THAN 30, NO FIRE RESISTANCE RATING REQUIRED.

EXIT REQUIREMENTS: (IBC 2021 TABLE 1006.3.3)
MINIMUM NUMBER OF EXITS: 2 REQUIRED
NUMBER OF EXITS PROVIDED IN BUILDING: 4 PROVIDED

MINIMUM PLUMBING FIXTURE COUNT (IPC 2021 - TABLE 403.1)

CLASSIFICATION	WATER CLOSETS	LAVATORIES	DRINKING FOUNTAIN
GROUP S-1	1 PER 100	1 PER 100	1 PER 1000
MALE:	17/100 = 1 W.C.	17/100= 1 LAV.	17/1000= 1 D.F
FEMALE:	17/100 = 1 W.C.	17/100 = 1 LAV.	

PER IPC 2021 (SECTION 242.2), UP TO REQUIRED MALE WCS MAY BE SUBSTITUTED WITH 67% URINALS IN ASSEMBLY OCCUPANCY AND 50% IN ALL OTHER OCCUPANCIES.

LIFE SAFETY GENERAL NOTES

CONTRACTORS SHALL FOLLOW INFECTION CONTROL AND LIFE SAFETY PROCEDURES AS SPECIFIED BY THE TENANT, PROPERTY MANAGER, AND THE INFECTION CONTROL RISK ASSESSMENT SPECIFICATIONS FOR THE PROJECT. VERIFY WORK REQUIRED.

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No.	Revision	Date

LIFE SAFETY PLAN

Project No. 23121
Sheet No. A204
Date 09/16/2025

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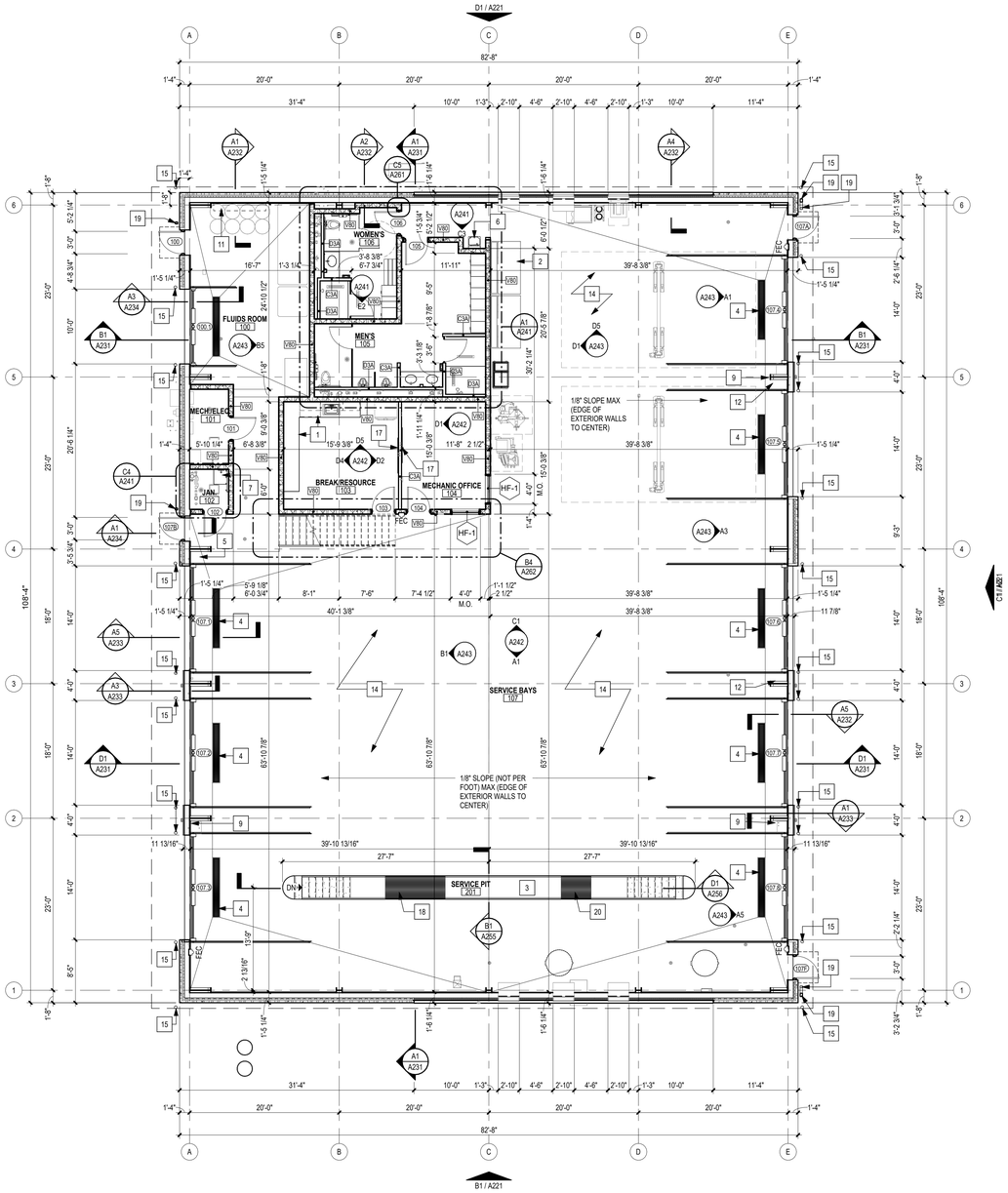
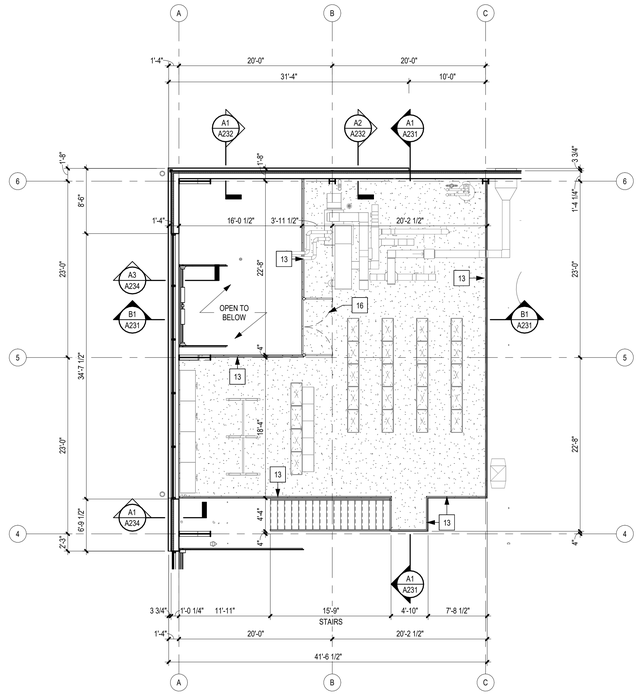
KEYED NOTES FLOOR PLAN

MARK	DESCRIPTION
1	BUILT-IN CASEWORK, SEE INTERIOR ELEVATIONS FOR DETAILS.
2	10' LONG WORK BENCH. COORDINATE INSTALLATION WITH OWNER-SUPPLIED EQUIPMENT.
3	PLUMBING PIT, SEE PLUMBING DRAWINGS FOR SIZE, DEPTH, AND INSTALLATION REQUIREMENTS.
4	TRENCH DRAIN IN FLOOR. SEE STRUCTURAL AND PLUMBING DRAWINGS FOR EXTENTS, DEPTH, AND CONNECTION.
5	2 1/2" HOSE CONNECTION WALL OUTLET. SEE PLUMBING DRAWINGS FOR CONNECTION DETAIL.
6	DRINKING FOUNTAIN WITH BOTTLE FILLER. SEE PLUMBING AND ELECTRICAL DWGS.
7	MOP SINK W/ MOP AND BROOM HOLDER. SEE PLUMBING DWGS.
8	SHOWER WITH FLOOR SLOPED TOWARDS DRAIN.
9	WALL-MOUNTED WATER REEL. SEE PLUMBING DRAWINGS FOR CONNECTION AND SPECIFICATIONS.
10	TIRE STORAGE RACK, COORDINATE INSTALLATION WITH OWNER-SUPPLIED EQUIPMENT.
11	WALL-MOUNTED SHELVES, PROVIDED BY OWNER.
12	WELDED 50' RETRACTABLE AIR HOSE REEL. SEE MECHANICAL DRAWINGS FOR AIR SUPPLY LOCATION.
13	TYPICAL STEEL PIPE RAILING. SEE DETAILS FOR MOUNTING INFORMATION.
14	8'-0" HIGH METAL PANEL PARTITION WALL AT VEHICLE BAY. SEE WALL SECTIONS AND SPECIFICATIONS FOR CONSTRUCTION.
15	BOLLARD TYP. SEE DETAILS.
16	METAL GATE DOUBLE DOOR ON MEZZANINE FLOOR 7' WIDE.
17	65" MONITOR PROVIDE BLOCKING, SEE ELECTRICAL DWGS.
18	1 1/2" X 1 1/2" X 1 1/2" FIBER GLASS GRATE, SIZE 2'-11 1/2" X 8'-0", TOTAL 6 GRATES
19	ROOF DRAINAGE DOWNSPOUT, SEE DETAILS.
20	1 1/2" X 1 1/2" X 1 1/2" FIBER GLASS GRATE, SIZE 2'-11 1/2" X 4'-0", TOTAL 1 GRAT
21	SHOWER CURTAIN & ROD



A1 FLOOR PLAN
1/8" = 1'-0"



D1 FLOOR PLAN - MEZZANINE
1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. REFERENCE GENERAL NOTES FOR ADDITIONAL APPLICABLE INFORMATION.
2. THE GENERAL CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS AND DIMENSIONS AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES THAT MAY AFFECT THE WORK PRIOR TO COMMENCING CONSTRUCTION.
3. PATCH, LEVEL, AND/OR FEATHER THE EXISTING FLOOR SUCH THAT THE NEW FLOOR IS LEVEL AND ALL TRANSITIONS ARE LEVEL AND SMOOTH.
4. INSTALL REDUCER STRIPS BETWEEN DIFFERENT FLOOR FINISH LEVELS AND FINISHES AS REQUIRED.
5. THE GENERAL CONTRACTOR SHALL INSTALL REQUIRED WALL BLOCKING FOR ALL CASEWORK, SHELVING, AND EQUIPMENT. SEE DRAWINGS FOR EXACT LOCATIONS.
6. UNLESS NOTED OTHERWISE, ALL MATERIALS AND EQUIPMENT SHOWN ON THE DRAWINGS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
7. ALL INTERIOR DIMENSIONS ARE TO FINISHED FACE OF GYP. BD. UNLESS NOTED OTHERWISE. WHERE INTERIOR FINISH IS METAL PANEL, DIMENSIONS SHALL BE TO FINISHED FACE OF METAL PANEL.
8. ALL ITEMS TO BE RELOCATED AND REUSED ARE TO BE STORED BY THE CONTRACTOR UNTIL REINSTALLATION. PROTECT FROM DAMAGE THROUGHOUT CONSTRUCTION.
9. MAINTAIN ALL NECESSARY COMMUNICATIONS AND FIRE PROTECTION SYSTEMS, EXISTING REQUIRED EXITS, EXIT CORRIDORS, AND ITEMS AFFECTING THE HEALTH AND SAFETY OF ALL OCCUPANTS AT ALL TIMES THROUGHOUT CONSTRUCTION.
10. MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION WORK TO BE DESIGN-BUILD. INTENT OF THIS WORK IS REFLECTED ON THE DRAWINGS. IF SUCH WORK IS OUTSIDE OF THE PROJECT AREA, CONTACT THE OWNER FOR RESTRICTIONS THAT MAY APPLY TO THOSE AREAS AND COORDINATE AND SCHEDULE ALL WORK. PROTECT ADJACENT AREAS, EQUIPMENT, ETC.
11. ALL BLOCKING SHALL BE FIRE TREATED.

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No.	Revision	Date

FLOOR PLAN

Project No. 23121

Sheet No. A211

Date 09/16/2025

SCALE: 3" = 1'-0" | SCALE: 1 1/2" = 1'-0" | SCALE: 1" = 1'-0" | SCALE: 3/4" = 1'-0" | SCALE: 3/8" = 1'-0" | SCALE: 1/4" = 1'-0" | SCALE: 1/8" = 1'-0" | SCALE: 3/32" = 1'-0" | SCALE: 1/16" = 1'-0"

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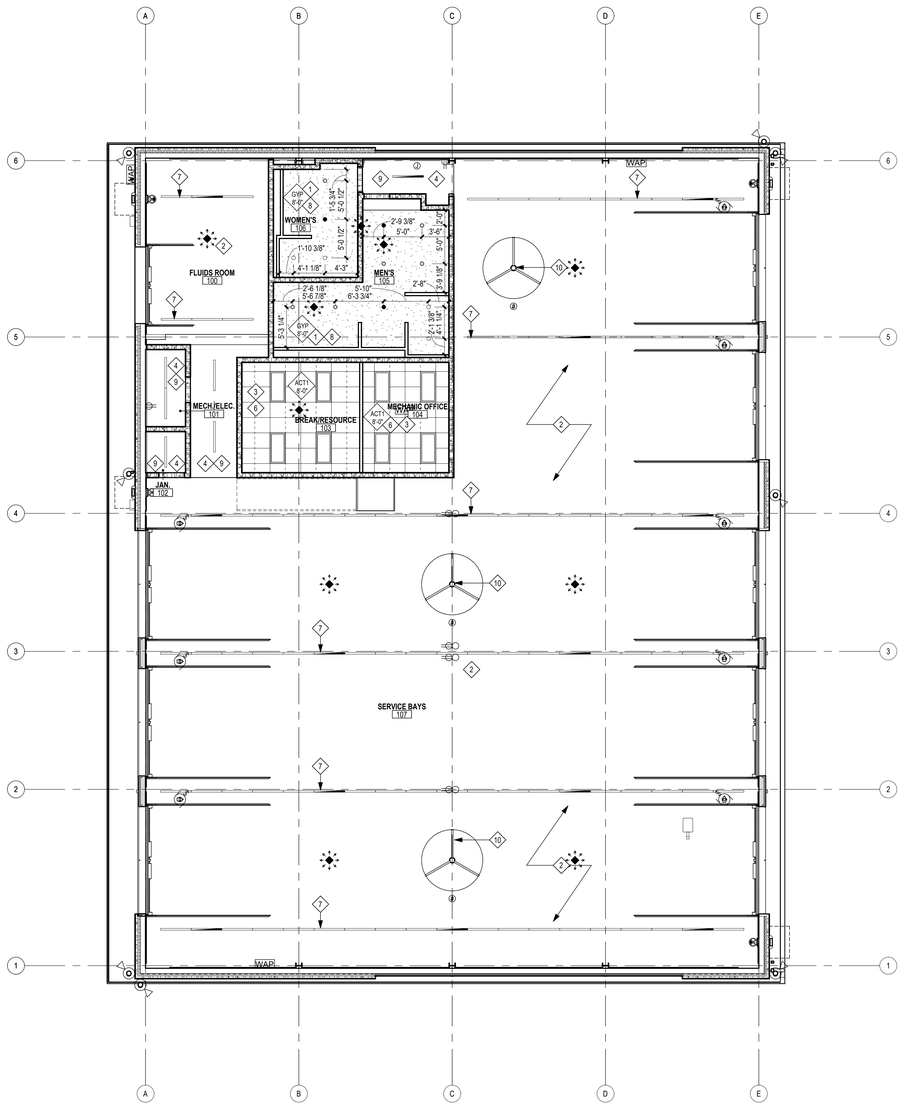
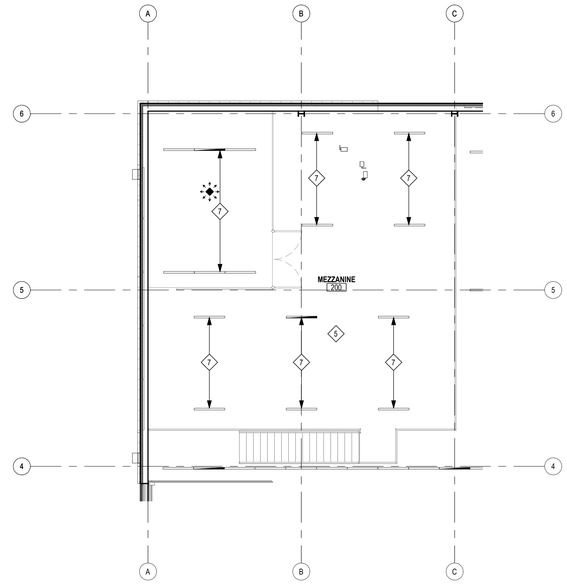
KEYED NOTES RCP

MARK	DESCRIPTION
1	GREENBOARD DRYWALL CEILING IN TOILET ROOM. PAINT CEILINGS P4.
2	EXPOSED CEILING IN BAY AREA. PAINT P3.
3	2X4 2ND LOOK LAY-IN CEILING. SEE FINISH SCHEDULE. (ACT1)
4	MEZZANINE ABOVE, SEE STRUCTURAL DWGS.
5	EXPOSED CEILING AT MEZZANINE. PAINT P3.
6	2X4 LIGHT TROFFER, SEE ELECTRICAL FOR FIXTURE SPECIFICATIONS.
7	SUSPENDED LINEAR LIGHT FIXTURE. SEE ELECTRICAL FOR FIXTURE SPECIFICATIONS.
8	RECESSED CAN LIGHTS. SEE ELECTRICAL DWGS.
9	LINEAR LIGHT FIXTURE. SEE ELECTRICAL DWGS.
10	CEILING FAN, SEE ELECTRICAL DWGS.



A1 REFLECTED CEILING PLAN
1/8" = 1'-0"



D1 REFLECTED CEILING PLAN - MEZZANINE
1/8" = 1'-0"

REF. CLG. PLAN GENERAL NOTES

1. INSTALL ACOUSTIC SOUND BATT INSULATION OVER ALL PARTITIONS ABOVE CEILING TO 24" EA. SIDE OF PARTITION, TYP.
2. SEE INTERIOR ELEVATIONS FOR LOCATIONS OF UNDERCABINET LIGHT FIXTURES.
3. LIGHT FIXTURES, EXIT SIGNS, FIRE STROBES/CHIMES, ETC. TO MATCH BUILDING STANDARD UNLESS NOTED OTHERWISE.
4. NO COMBUSTIBLE MATERIAL SHALL BE INSTALLED IN A RETURN AIR PLENUM.
5. ALL CEILING, BULKHEAD, AND SOFFIT HEIGHTS ARE TAKEN FROM REFERENCED FINISH FLOOR.
6. PAINT ALL GYPSUM BOARD SOFFITS AND CEILINGS. REFERENCE REFLECTED CEILING PLAN.
7. ALL FLOATING "CLOUD" CEILINGS ARE TO BE HUNG WITH AIRCRAFT CABLE (NO EXCEPTIONS) IF APPLICABLE TO THIS PROJECT.
8. SUPPLY AND INSTALL SOUND BOOTS ON ALL DIFFUSERS OPEN TO THE CEILING PLENUM, TYP.
9. SHOULD ANY CONFLICT ARISE BETWEEN MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION SYSTEMS, REQUEST CLARIFICATION FROM ARCHITECT PRIOR TO INSTALLATION.
10. MECHANICAL DESIGN-BUILD CONTRACTOR TO REWORK EXISTING/INSTALL NEW SYSTEM AND DIFFUSERS AS REQUIRED TO PROVIDE PROPER CONDITIONING OF THE NEW PLAN. RESEARCH EXISTING CONDITIONS AND VERIFY WORK REQUIRED. INSTALL DAMPERS AT ANY FIRE RATED ASSEMBLIES TO MATCH EXISTING.
11. REFERENCE MECHANICAL DRAWINGS FOR BALANCE OF MECHANICAL INFORMATION (i.e. SUPPLY DIFFUSERS, RETURN AIR GRILLES, ETC.).
12. ELECTRICAL DESIGN-BUILD CONTRACTOR TO PROVIDE AND INSTALL EMERGENCY LIGHTS OR WIRE CEILING LIGHT FIXTURES FOR EMERGENCY TO PROVIDE THE REQUIRED LIGHT LEVELS PER GOVERNING CODES.
13. ELECTRICAL DESIGN-BUILD CONTRACTOR RESPONSIBLE FOR DEVELOPING LIGHT LEVEL CALCULATIONS AND PROVIDE TO LOCAL OFFICIALS IF REQUIRED.
14. ELECTRICAL DESIGN-BUILD CONTRACTOR TO PROVIDE AND INSTALL SMOKE DETECTORS AS REQUIRED BY GOVERNING CODES AND A.H.J. SMOKE DETECTORS SHALL BE TIED TO BUILDING ALARM SYSTEM IF ALARM SYSTEM PRESENT. VERIFY WORK REQUIRED.
15. ELECTRICAL DESIGN-BUILD CONTRACTOR TO PROVIDE AND INSTALL FIRE STROBES THROUGHOUT AREA OF WORK AND TIED INTO BUILDING ALARM SYSTEM WHERE REQUIRED BY GOVERNING CODES AND A.H.J. INSTALL CHIMES AT LOCATIONS IN CORRIDORS, ETC. TO PROVIDE REQUIRED DECIBEL LEVEL PER GOVERNING CODES. VERIFY WORK REQUIRED.
16. REFERENCE ELECTRICAL DRAWINGS FOR BALANCE OF LIGHTING INFORMATION. NOTE: ALL FIXTURES LOCATED IN LAY-IN ACOUSTICAL PANELS SHALL BE CENTERED IN CEILING PANELS UNLESS NOTED OTHERWISE.

LIGHT FIXTURE GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR ALL MISCELLANEOUS HARDWARE, CLIPS, ANGLES, FRAMES, ETC. AS REQUIRED TO MOUNT THE FIXTURES IN OR ON THE SURFACES THEY ARE TO BE INSTALLED.
2. REFER TO ARCHITECTURAL DOCUMENTS FOR EXACT MOUNTING LOCATIONS OF LIGHT FIXTURES.
3. WHEN INSTALLING LIGHT FIXTURES THE CONTRACTOR SHALL USE THE LIGHT FIXTURE MANUFACTURER'S MOUNTING HARDWARE AND FOLLOW ALL MANUFACTURER INSTALLATION DIRECTIONS.
4. ALL RECESSED DOWNLIGHTS MUST BE INSTALLED SO THAT THE BOTTOM OF THE THROAT IS EVEN WITH THE FINISHED CEILING PLANE UNLESS NOTED OTHERWISE. THE OVERLAPPING FLANGE MUST FIT FLUSH TO THE CEILING PLANE/THROAT. NO LIGHT LEAK MAY BE VISIBLE. ALL MISCELLANEOUS HARDWARE ABOVE THE CEILING PLANE TO ACCOMPLISH THE ABOVE SHALL BE INCLUDED IN THE BASE BID.
5. ALL RECESSED DOWNLIGHTS SHALL HAVE SELF-FLANGED REFLECTORS UNLESS NOTED OTHERWISE.
6. ALL LIGHT FIXTURES SHALL HAVE A U.L. LABEL.
7. WHEN INSTALLING COMPACT FLUORESCENT LAMP LUMINARIES, CONSISTENT LAMP ORIENTATION SHALL BE MAINTAINED IN A CONTIGUOUS AREA.

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3801340 ECOLOGY DRIVE

No.	Revision	Date

REFLECTED CEILING PLAN

Project No. 23121

Sheet No. A212

Date 09/16/2025

SCALE: 3" = 1'-0" SCALE: 1 1/2" = 1'-0" SCALE: 1" = 1'-0" SCALE: 3/4" = 1'-0" SCALE: 1/2" = 1'-0" SCALE: 3/8" = 1'-0" SCALE: 1/4" = 1'-0" SCALE: 1/8" = 1'-0" SCALE: 3/32" = 1'-0" SCALE: 1/16" = 1'-0"

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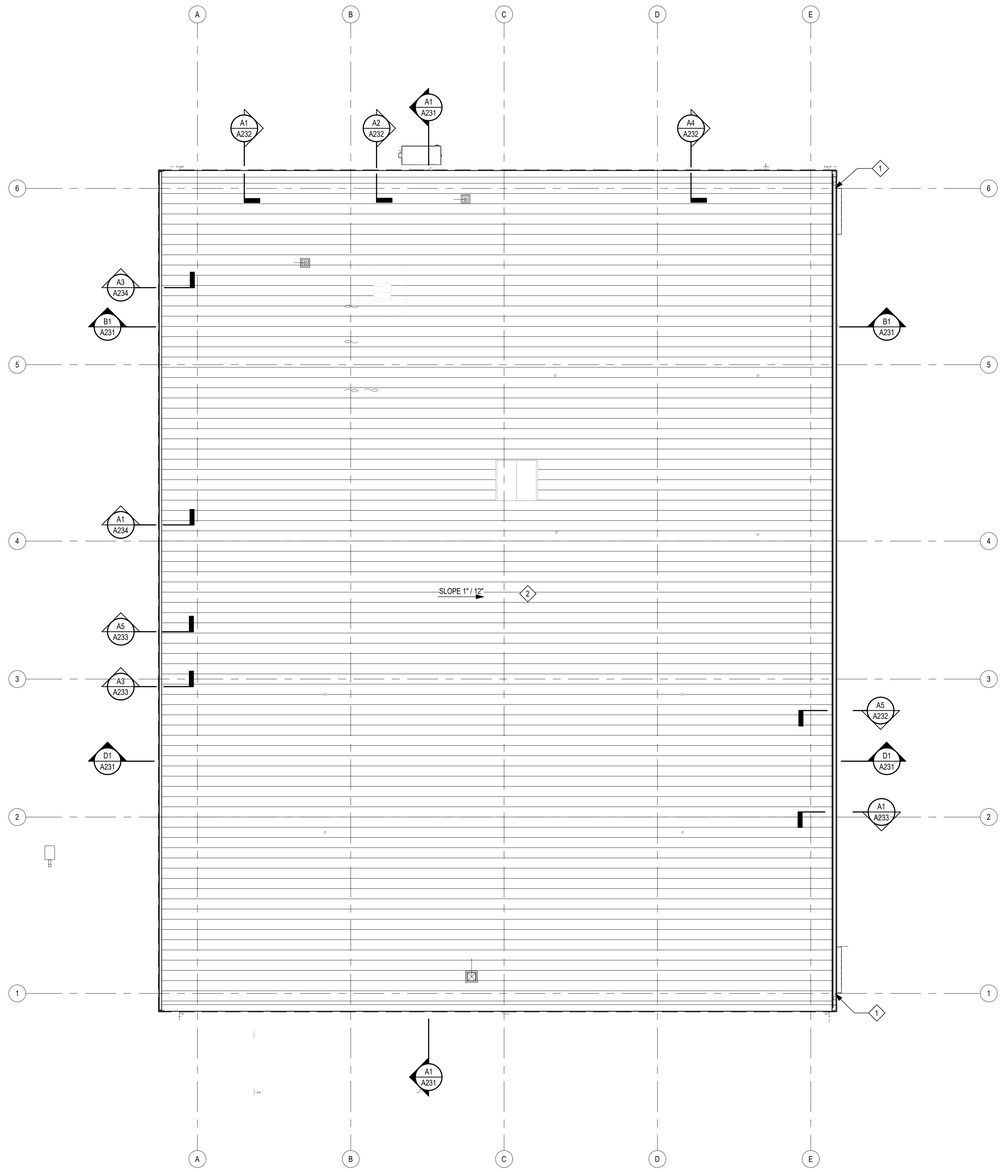

A1 ROOF PLAN
1/8" = 1'-0"

KEYED NOTES ROOF PLAN

MARK	DESCRIPTION
1	ROOF DRAINAGE DOWNSPOUT, SEE DETAILS.
2	METAL STANDING SEAM ROOF BY PRE-ENGINEERED METAL BUILDING MANUFACTURER.

ROOF PLAN GENERAL NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL PENETRATIONS WITH ALL MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT AND TRADES.
2. CONTRACTOR SHALL COORDINATE LOCATION OF DOWNSPOUTS WITH CIVIL PLANS.
3. IN THE EVENT OF CONFLICT, ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER CIVIL DRAWINGS FOR LOCATION AND QUANTITY OF DOWNSPOUTS.
4. REFER TO STRUCTURAL DRAWINGS FOR MINIMUM ROOF SHEATHING REQUIREMENTS.
5. SEE APPLICABLE UL ASSEMBLIES AS DESCRIBED ELSEWHERE IN THESE DRAWINGS FOR REQUIREMENTS DESCRIBED THEREIN. UL REQUIREMENTS OR DETAILING SHALL TAKE PRECEDENCE SHOULD ANY DISCREPANCIES ARISE.
6. GENERAL CONTRACTOR SHALL ENSURE DESIGN VENTILATION REQUIREMENT DESCRIBED HEREIN TO BE MET IF SUBSTITUTIONS OF MATERIAL TYPES AND QUANTITIES ARE SUBMITTED AND APPROVED BY THE ARCHITECT. GC ASSUMES RESPONSIBILITY FOR TYPE, LOCATION, ARRANGEMENT AND QUANTITIES FOR MEETING THESE REQUIREMENTS.
7. SEE REFLECTED CEILING PLAN FOR EXTENT OF SOFFIT AREAS. GC TO PROVIDE LAYOUT OF SOFFIT AREA FOR INTAKE AIR, SIZED AND EQUALLY DISTRIBUTED PER CALCULATIONS DESCRIBED ELSEWHERE IN THESE DOCUMENTS. PLUMBING AND FIRE PROTECTION SYSTEMS, REQUEST CLARIFICATION FROM ARCHITECT PRIOR TO INSTALLATION.

ROOF DRAINAGE CALCULATIONS

GUTTER
R = RAINFALL INTENSITY = 4.0" PER HOUR
A = ROOF AREA = 9,593 SF
GPM = R x A x 0.0104 (EQUATION 11-1)
4.0 x 9,593 x 0.0104 = 399 GPM

D = DOWNSPOUT = 2
GPM/D = GPM PER DOWNSPOUT
399/2 = 200 GPM

DOWNSPOUT SIZE = 6" X 6"

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ROOF PLAN

Project No. 23121

Sheet No. A213

Date 09/16/2025

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SCALE: 1" = 1'-0"
SCALE: 3/4" = 1'-0"
SCALE: 1/2" = 1'-0"
SCALE: 3/8" = 1'-0"
SCALE: 1/4" = 1'-0"
SCALE: 1/8" = 1'-0"
SCALE: 3/32" = 1'-0"
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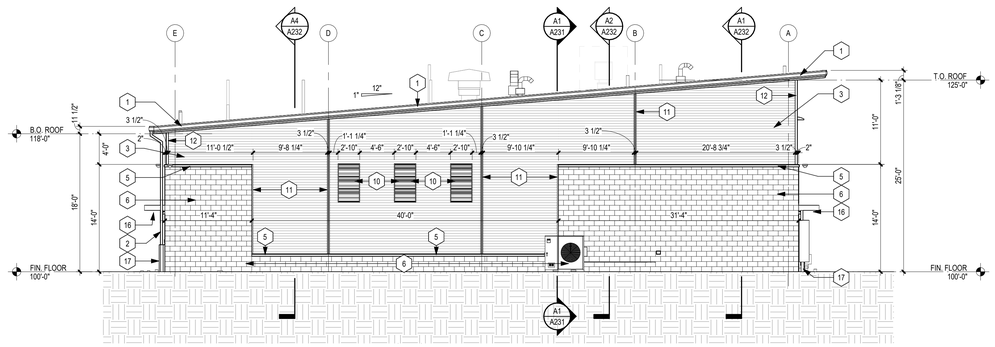
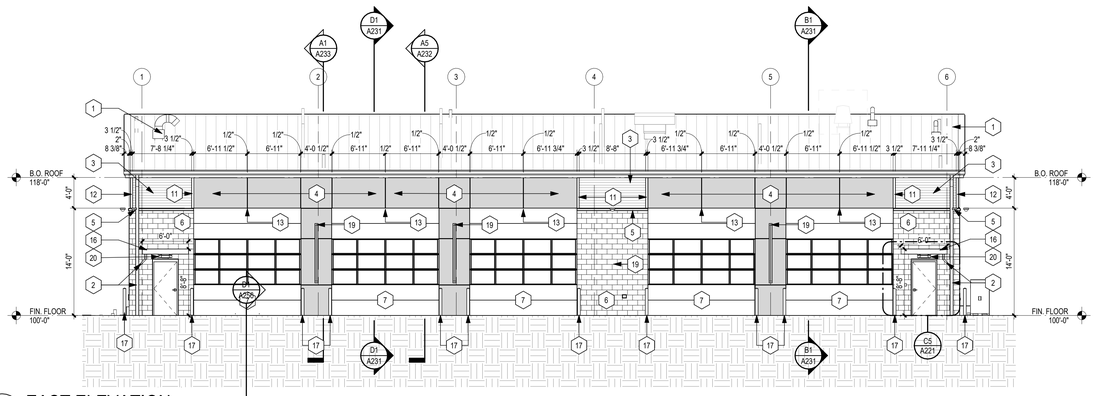
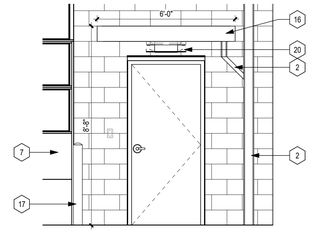


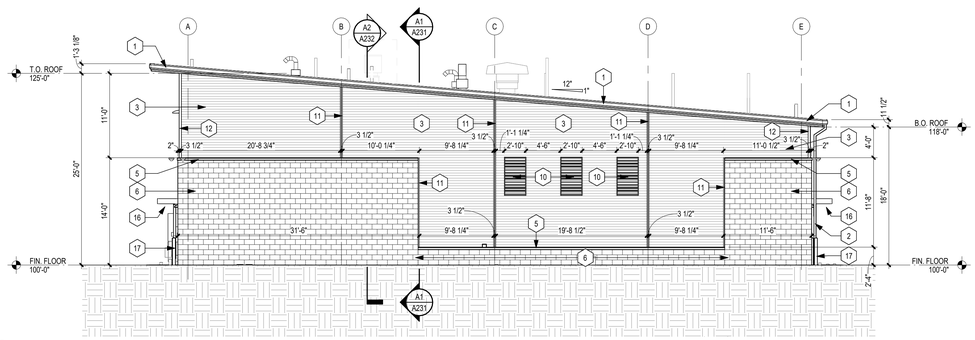
D1 NORTH ELEVATION
1/8" = 1'-0"



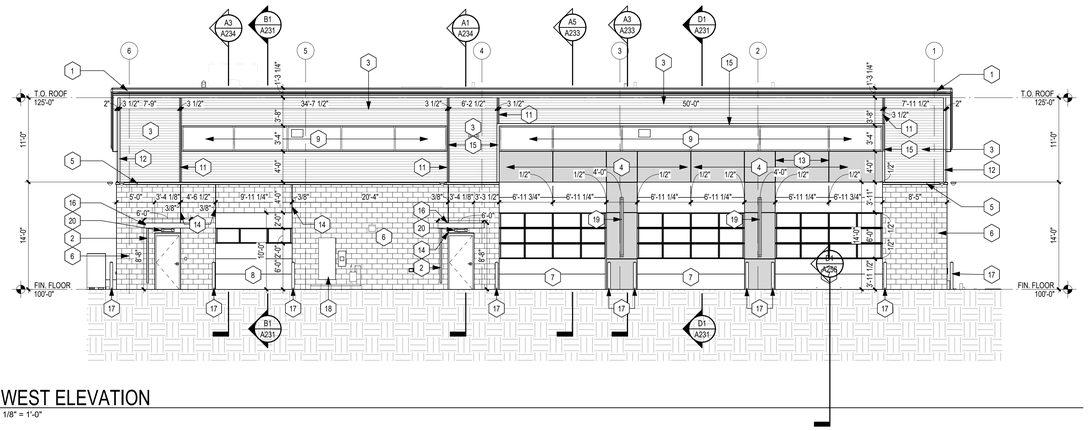
C1 EAST ELEVATION
1/8" = 1'-0"



C5 ENLG. ELEV. @ EAST DOOR
3/8" = 1'-0"



B1 SOUTH ELEVATION
1/8" = 1'-0"



A1 WEST ELEVATION
1/8" = 1'-0"

KEYED NOTES EXTERIOR ELEV.

MARK	DESCRIPTION
1	METAL STANDING SEAM ROOF BY PRE-ENGINEERED METAL BUILDING MANUFACTURER.
2	ROOF DRAINAGE DOWNSPOUT, SEE DETAILS.
3	TBD CONCEALED FASTENED METAL WALL PANEL (MTL-03). SEE EXT. BLDG. MTLS. LEGEND.
4	RED MCM PANEL (MCM-01). -SEE EXT. BLDG. MTLS. LEGEND.
5	MIDWEST CAST STONE (STN-01). CUSTOM PROFILE PER DOCUMENTS (SP-3). -SEE EXT. BLDG. MTLS. LEGEND.
6	GRAY SPLIT FACE BLOCK (CMU-01). SEE EXT. BLDG. MTLS. LEGEND.
7	14' GARAGE DOOR WITH GLASS (METALLIC SILVER)
8	10' GARAGE DOOR WITH GLASS (METALLIC SILVER)
9	1" INSULATED GLAZING, CLEAR (SF-01). -SEE EXT. BLDG. MTLS. LEGEND.
10	34" X 60" LOUVER, SEE MECHANICAL DWGS.
11	3 PC. METAL PANEL VERTICAL PANEL JOINT TRIM COLOR TO MATCH WALL PANEL, SEE DETAILS.
12	3 PC. METAL PANEL CORNER VERTICAL PANEL JOINT TRIM COLOR TO MATCH WALL PANEL, SEE DETAILS.
13	MCM REVEAL, 5W X 2D (EXP-02)
14	CMU REVEAL (EXP-01), SEE DETAILS.
15	METAL TRIM TO MATCH ADJACENT METAL PANEL WALL.
16	GREY CANOPY, SEE DETAILS.
17	TYP. BOLLARD, SEE DETAILS.
18	ELECTRICAL BOX, SEE ELECTRICAL DRAWINGS FOR MORE DETAILS.
19	WALL LIGHT SCONCE, SEE ELECTRICAL DWGS.
20	WALL PACK LIGHTING FIXTURE BENEATH DOOR CANOPY, SEE ELECTRICAL DWGS.

EXT. BLDG. MTLS. LEGEND

MARK	DESCRIPTION
CMU-01	BEST BLOCK, 4X8X16 NOM. SPLIT-FACE CMU EBONY. MORTAR – SGS 60A, WHITE.
EXP-01	BACKER ROD WITH TRIMCO SEALANT, COLOR GREY TBD.
EXP-02	BACKER ROD WITH TRIMCO SEALANE., COLOR OER RED.
MCM-01	ALPOLIC FR, 4MM MCM PANELS, COLOR OER RED.
MTL-02	MCELROY METALS SILVER METALLIC.
MTL-03	COUNSELED FASTENED METAL WALL PANEL: FABRAL SILHOUETTE HCF SERIES,16-4C, COLOR TBD PROVIDE FOLLOWING COLOR SAMPLES FOR ARCHITECTS APPROVAL (BRIGHT SILVER S66, SILVERSMITH S15).
SF-01	2" X 4 1/2" CLEAR ANODIZED THERMALLY BROKEN ALUMINUM STOREFRONT SYSTEM W/ 1" INSULATED GLAZING VITRO SOLARBAN 60 CLEAR + CLEAR LOW -E COATING.
ST-01	MIDWEST CAST STONE, CUSTOM PROFILE PER DOCUMENTS, COLOR 1A. MORTAR – SGS 60A, WHITE.

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EXTERIOR ELEVATIONS

Project No. 23121

Sheet No. A221

Date 09/16/2025

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SCALE: 1" = 1'-0" 1" 6" 0 2"
SCALE: 3/4" = 1'-0" 1" 0 3" 2"
SCALE: 1/2" = 1'-0" 1" 0 4" 2"
SCALE: 3/8" = 1'-0" 4" 2" 0 2"
SCALE: 1/4" = 1'-0" 4" 2" 0 8"
SCALE: 1/8" = 1'-0" 8" 4" 0 16"
SCALE: 3/32" = 1'-0" 16" 8" 0 24"
SCALE: 1/16" = 1'-0" 16" 8" 0 32"

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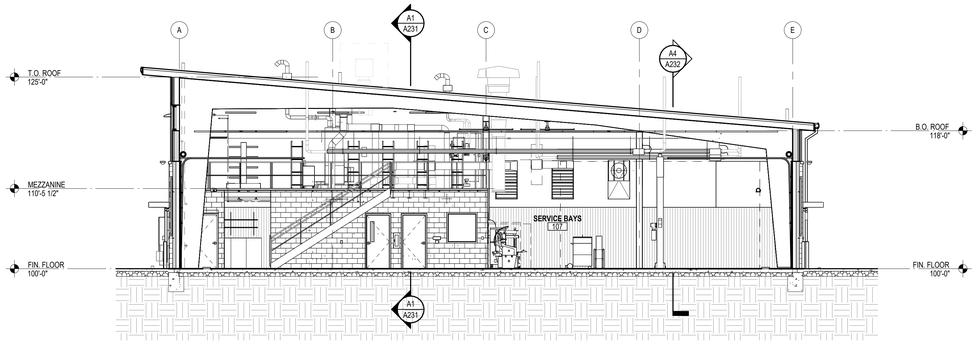
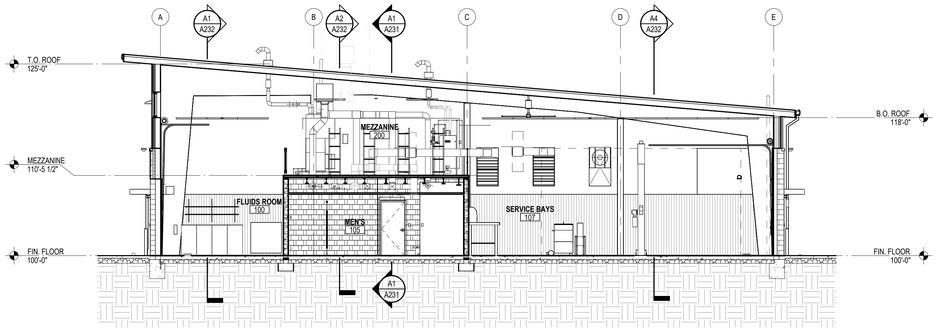
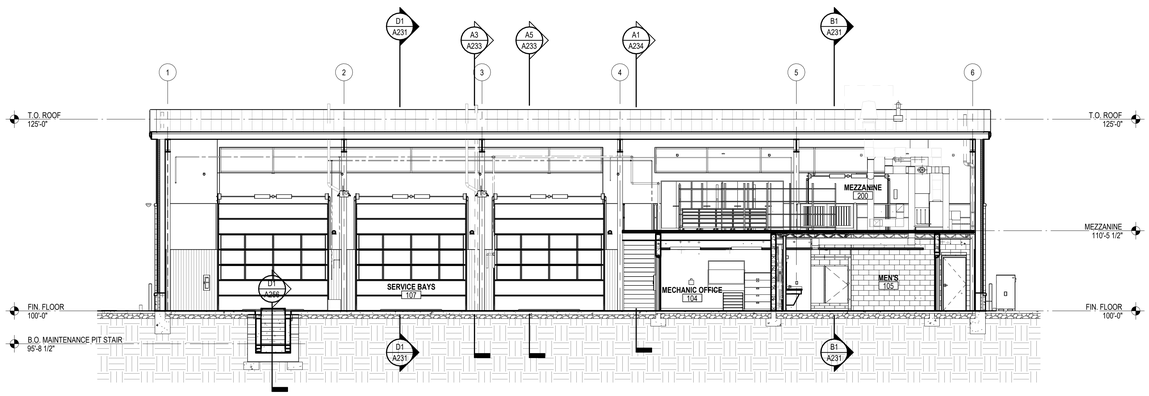


D1 BUILDING SECTION 3
1/8" = 1'-0"



B1 BUILDING SECTION 2
1/8" = 1'-0"



A1 BUILDING SECTION 1
1/8" = 1'-0"

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No.	Date	Revision

BUILDING SECTIONS

Project No. 23121

Sheet No. A231

Date 09/16/2025

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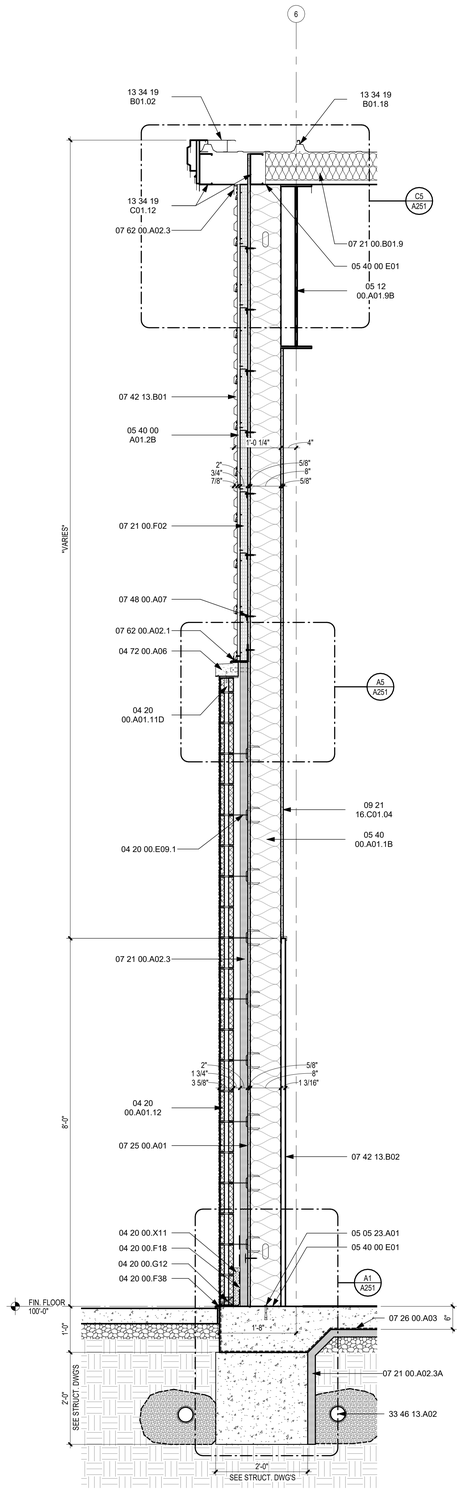

WALL SECTION KEYNOTES

Key Value	Keynote Text
03 30 00.A05.01	CAST-IN-PLACE CONCRETE FOOTING. -SEE STRUCTURAL DRAWINGS.
03 30 00.A05.02	CAST-IN-PLACE CONCRETE FOUNDATION WALL. -SEE STRUCTURAL DRAWINGS.
03 30 00.A05.09	CAST-IN PLACE CONCRETE FLOOR SLAB. -SEE STRUCTURAL DRAWINGS.
03 30 00.A05.10	CAST-IN PLACE CONCRETE FLOOR SLAB OVER 9/16" CORRUGATED METAL DECKING. -SEE STRUCTURAL DRAWINGS.
03 30 00.A05.12	CAST-IN PLACE CONCRETE FLOOR SLAB OVER 15 MIL. VAPOR BARRIER OVER 4" (MIN.) COMPACTED GRANULAR BASE. -SEE STRUCTURAL DRAWINGS.
03 30 00.A12.0	1/2" FIBER EXPANSION JOINT FILLER.
04 20 00.A01.3C	8"X8"X16" (NOM). SOLID CONCRETE BLOCK (C.M.U.). -SEE PARTITION TYPE FOR FIRE RATING.
04 20 00.A01.7	CONCRETE BLOCK (C.M.U.) BOND BEAM WITH (2) REBAR. -SEE PARTITION TYPE FOR FIRE RATING.
04 20 00.A01.11D	(CMU-01) 4" X 4" X 16" (NOM) SOLID CONCRETE BLOCK (C.M.U). -SEE PARTITION TYPE FOR FIRE RATING.
04 20 00.A01.12	(CMU-01) 4" X 8" X 16" (NOM.), SPLIT FACE CONCRETE BLOCK (C.M.U.). -SEE PARTITION TYPE FOR FIRE RATING.
04 20 00.E09.1	TWO-PIECE GALV. METAL MASONRY VENEER ANCHOR.
04 20 00.F18	RUBBERIZED ASPHALT FLASHING. INSTALL IN ACCORDANCE W/ MANUFACTURER'S INSTALLATION INSTRUCTIONS.
04 20 00.F38	CONT. STAINLESS STEEL FLASHING/DRIP EDGE.
04 20 00.G12	POLYESTER MESH WEEPS @ 24" O.C.
04 20 00.H01	AIR CAVITY.
04 20 00.X11	CAVITY MORTAR CONTROL MORTAR DIVERTER.
04 20 00.Z01	CONTINUOUS TERMINATION BAR AND SEALANT.
04 43 00.A1	MASONRY ANCHOR SELECTED AND INSTALLED BY MASONRY MANUFACTURE.
04 72 00.A06	ST-01 CAST STONE SILL (SP-3) -REFERENCE EXTERIOR ELEVATIONS AND STONE BANDING PROFILES FOR TYPE AND DIMENSIONS.
05 05 23.A01	3/4" Ø ANCHOR BOLT & 1 1/2" WASHERS @ 48" O.C. MAX (MIN 7" EMBED). MIN (2) BOLTS PER BOARD & WITHIN 12" OF EACH END OR SPLICE.
05 12 00.A01.2	STRUCTURAL STEEL BEAM. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.4	STRUCTURAL STEEL ANGLE. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.9B	MTL ENDWALL RAFER/BEAM BY MTL BLDG MFR.
05 12 00.A01.12	STRUCTURAL STEEL LINTEL. -SEE STRUCTURAL DRAWINGS.
05 31 00.A01	9/16" CORRUGATED METAL DECKING. -SEE STRUCTURAL DRAWINGS.
05 40 00 A01.2B	3/4" KNIGHT HCI CLADDING ATTACHMENT.
05 40 00 E01	CONTINUOUS METAL STUD "C" RUNNER TRACK.
05 40 00.A01.1A	6" STRUCTURAL COLD-FORMED METAL STUD FRAMING @ 16" O.C. W/ R-19 (MIN.) BATT INSULATION. -SEE STRUCTURAL DRAWINGS.
05 40 00.A01.1B	8" STRUCTURAL COLD-FORMED METAL STUD FRAMING @ 16" O.C. W/ R-25 (MIN.) BATT INSULATION. -SEE STRUCTURAL DRAWINGS.
05 51 00.A01.1	PREFABRICATED STEEL PAN STAIR W/ CONCRETE FILLED TREADS.
05 52 13.A01.02	1 1/4" NOM. DIA. STEEL PIPE WALL MOUNTED HANDRAIL ATTACHED TO WALL W/ MOUNTING BRACKETS @ 8'-0" O.C. (MAX.). NOTE: RETURN HANDRAIL ENDS TO WALL. -SEE APPLICABLE DETAILS.
06 16 43.A02	5/8" EXTERIOR FIBERGLASS MAT FACED GYPSUM WALL BOARD SHEATHING.
07 14 00.A01	SINGLE-COMPONENT FLUID-APPLIED WATERPROOFING MEMBRANE.
07 14 00.A02	DRAINAGE PANEL OVER FLUID APPLIED WATERPROOFING. INSTALL IN ACCORDANCE W/ MANUFACTURER'S STANDARD INSTALLATION PROCEDURES AND DETAILS.
07 14 00.C01	APPROVED CONT. SEALANT AND TERMINATION BAR BY WATERPROOFING MFR.
07 17 13.B03	CONT. "TREMCO" SUPERSTOP BENTONITE WATERSTOP/JOINT SEAL, OR ARCHITECT APPROVED EQUAL. INSTALL IN ACCORDANCE W/ MANUFACTURER'S RECOMMENDATIONS.
07 21 00.A02.3	2" THK (R-10 MIN.) EXTRUDED POLYSTYRENE (XPS) RIGID BOARD INSULATION.
07 21 00.A02.3A	2" THK (R-8.4 MIN.) EXTRUDED POLYSTYRENE (XPS) RIGID BOARD PERIMETER INSULATION.
07 21 00.B01.9	(2) LAYERS R-13 VINYL FACED FIBERGLASS BATT INSULATION. FIRST LAYER DROPED LOOSE BETWEEN PURLINS. SECOND LAYER SUPPORTED BY FIRST LAYER RUNNING PARALLEL TO PURLINS.
07 21 00.F02	2" THK. MINERAL WOOL FIBER BOARD INSULATION.
07 21 00.G03	5.5" W. CLOSED-CELL POLYETHYLENE FOAM SILL SEALER.
07 25 00.A01	WEATHER BARRIER
07 25 00.I01	SELF-ADHERING RUBBERIZED ASPHALT FLASHING. INSTALL IN ACCORDANCE W/ MANUFACTURER'S INSTALLATION INSTRUCTIONS.
07 26 00.A03	15 MIL. VAPOR RETARDER/BARRIER.
07 42 13.A01	RED METAL COMPOSITE MATERIAL (MCM-01) SHEET. -SEE EXT. BLDG. MTLS. LEGEND.
07 42 13.A05	MCM ANCHOR, CLIPS AND ACCESSORIES.
07 42 13.A17	MCM WALL TERMINATION PANEL.
07 42 13.B01	HORIZONTAL RIBBED (MTL-03) METAL WALL PANEL CONCEALED FASTENED. -REFERENCE EXTERIOR BUILDING MATERIALS LEGEND AND APPLICABLE WALL SECTIONS AND DETAILS.
07 42 13.B02	8'-0" HIGH METAL PANEL PARTITION WALL AT VEHICLE BAY. SEE SPECIFICATIONS FOR CONSTRUCTION.
07 48 00.A07	2" THERMABRACKET-D RAINSCREEN ATTACHMENT BRACKET BY KNIGHTWALL OR ARCHITECT APPROVED EQUAL.
07 54 00.A02.1	TPO MEMBRANE
07 62 00.A02.1	PRE-FINISHED METAL FLASHING AND/OR TRIM FINISH TO MATCH ADJACENT METAL PANEL.
07 62 00.A02.3	PRE-FINISHED AJ3 "J" CHANNEL AND/OR TRIM FINISH TO MATCH ADJACENT METAL PANEL.
07 84 00.A01	FIRE SAFING INSULATION WITH FIRE CAULK BOTH SIDES.
07 90 05.A04.02	3/8" W. BACKER ROD AND SEALANT.
07 90 05.B03	CONT. 3/8" W. SEALANT JOINT. COLOR TO MATCH ADJACENT MATERIAL UNLESS OTHERWISE INDICATED.
08 36 13.B01	OVERHEAD SECTIONAL DOOR. -SEE DOOR SCHEDULE.
09 21 16.C01.04	5/8" THK. PAPER FACED GYPSUM WALL BOARD.
09 21 16.D01	SUSPENDED GYPSUM BOARD CEILING SYSTEM: 5/8" GYPSUM BOARD ATTACHED TO DRYWALL GRID SYSTEM.
13 34 19 B01.01	METAL GUTTER BY PRE-ENGINEERED METAL BUILDING MANUFACTURER.
13 34 19 B01.02	GABLE TRIM CLOSURE AND EXTENSION.
13 34 19 B01.18	STANDING SEAM ROOF.
13 34 19 C01.07	METAL ROOF PURLIN BY PRE-ENGINEERED METAL BUILDING MANUFACTURER.
13 34 19 C01.12	METAL EAVE STRUT BY PRE-ENGINEERED METAL BUILDING MANUFACTURER.
32 30 00.A01	4"Ø STD. STEEL PIPE FILLED W/ CONCRETE. PAINT EXPOSED STEEL PIPE AND CONC. CAP YELLOW. -SEE BOLLARD DETAIL.
33 46 13.A02	4" PERFORATED DRAIN PIPE SURROUNDED BY 1" CLEAN CRUSHED ROCK PLACED A MINIMUM OF 6 INCHES IN ALL DIRECTIONS AROUND PIPE, ENCASED IN A MIRAFI 140N SYNTHETIC FILTER FABRIC OR ARCHITECT APPROVED EQUAL. REFERENCE CIVIL AND/OR PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

A1 WALL SECTION NORTH @ FLUIDS ROOM 100
3/4" = 1'-0"

A2 WALL SECTION NORTH @ RESTROOM
3/4" = 1'-0"

A4 WALL SECTION NORTH @ SERVICE BAYS
3/4" = 1'-0"

A5 WALL SECTION EAST @ O.H. DOOR
3/4" = 1'-0"

SCALE: 3" = 1'-0" | SCALE: 1 1/2" = 1'-0" | SCALE: 1" = 1'-0" | SCALE: 3/4" = 1'-0" | SCALE: 1/2" = 1'-0" | SCALE: 3/8" = 1'-0" | SCALE: 1/4" = 1'-0" | SCALE: 1/8" = 1'-0" | SCALE: 3/32" = 1'-0" | SCALE: 1/16" = 1'-0"

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380/340 ECOLOGY DRIVE ST. PETERS, MO 63376

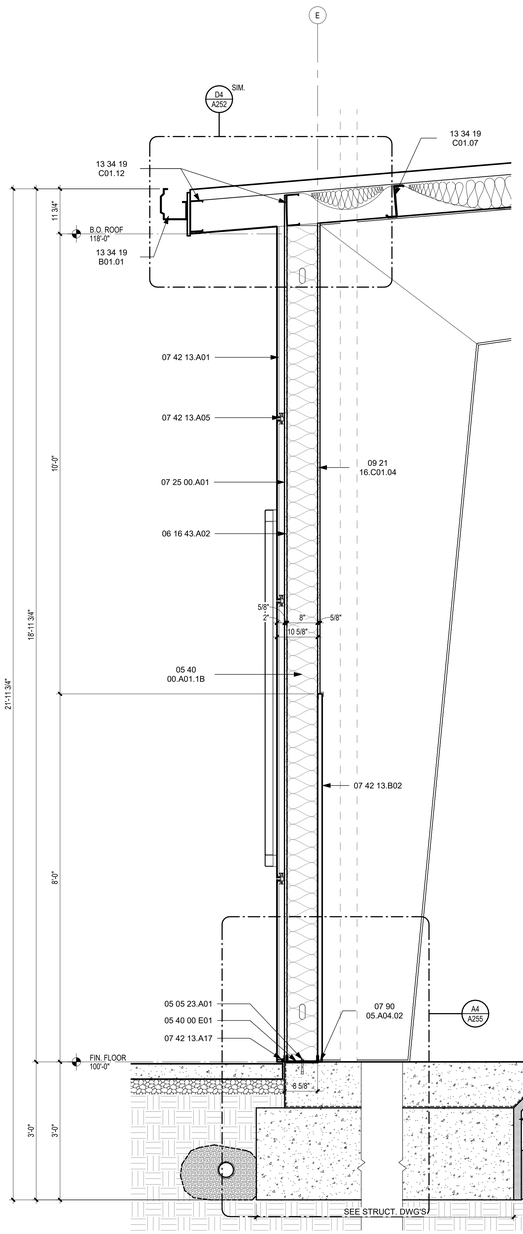
No.	Revision	Date

WALL SECTIONS

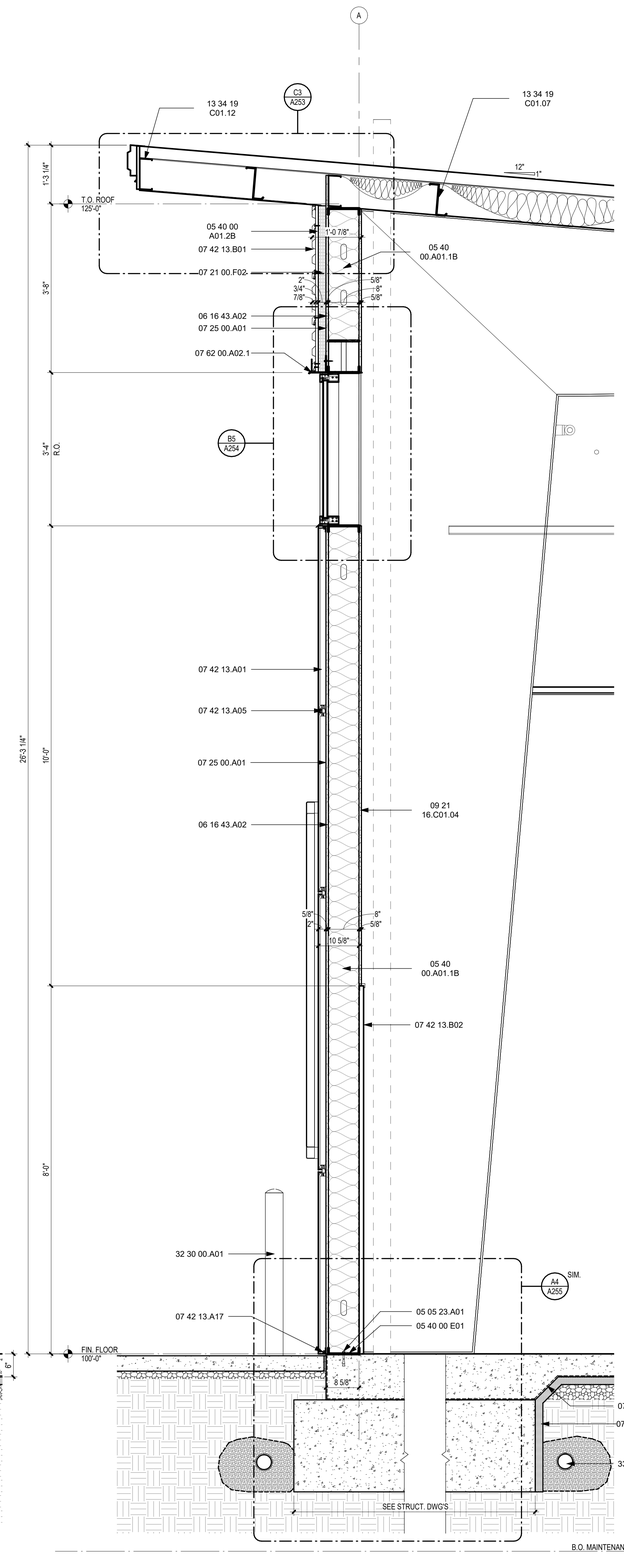
Project No. 23121

Sheet No. A232

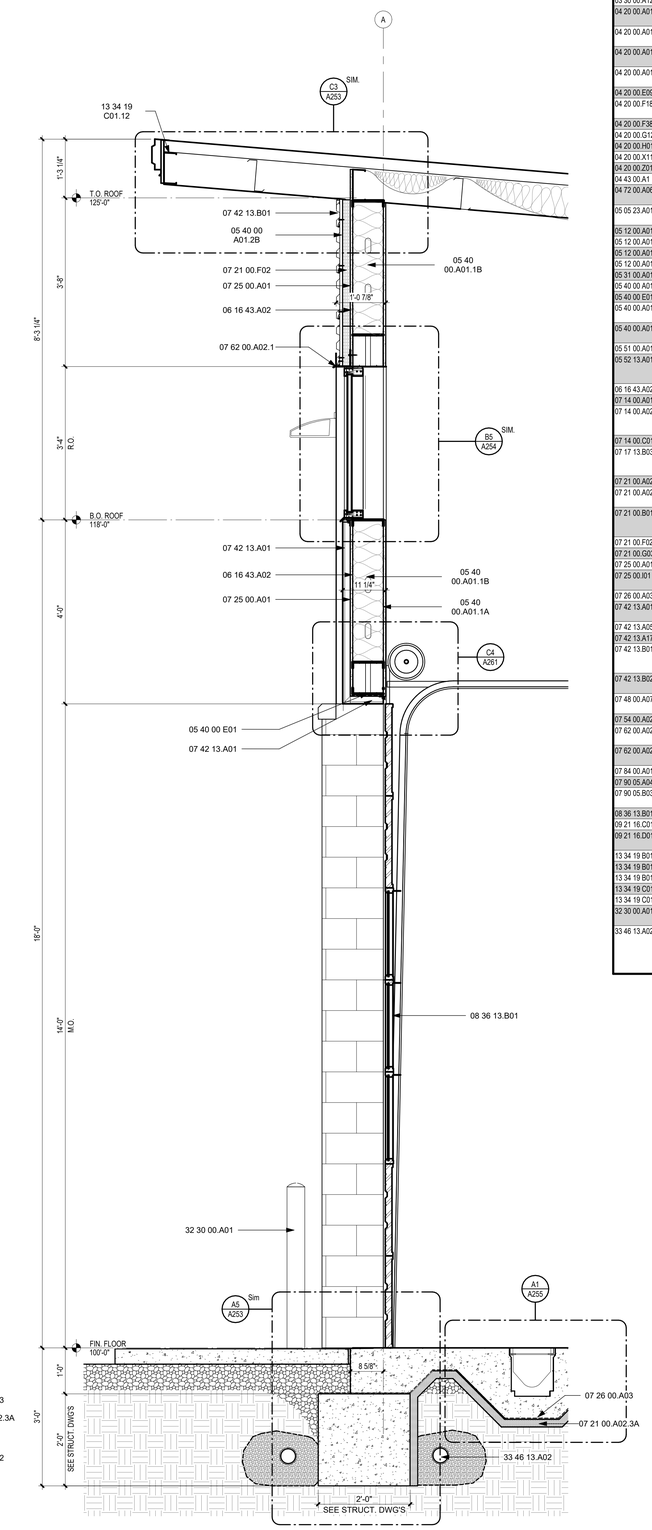
Date 09/16/2025



A1 WALL SECTION EAST @ SERVICE BAYS
3/4" = 1'-0"



A3 WALL SECTION WEST @ SERVICE BAYS
3/4" = 1'-0"



A5 WALL SECTION WEST @ O.H. DOOR
3/4" = 1'-0"

WALL SECTION KEYNOTES

Key Value	Keynote Text
03 30 00.A05.01	CAST-IN-PLACE CONCRETE FOOTING. -SEE STRUCTURAL DRAWINGS.
03 30 00.A05.02	CAST-IN-PLACE CONCRETE FOUNDATION WALL. -SEE STRUCTURAL DRAWINGS.
03 30 00.A05.09	CAST-IN PLACE CONCRETE FLOOR SLAB. -SEE STRUCTURAL DRAWINGS.
03 30 00.A05.10	CAST-IN PLACE CONCRETE FLOOR SLAB OVER 9/16" CORRUGATED METAL DECKING. -SEE STRUCTURAL DRAWINGS.
03 30 00.A05.12	CAST-IN PLACE CONCRETE FLOOR SLAB OVER 15 MIL. VAPOR BARRIER OVER 4" (MIN.) COMPACTED GRANULAR BASE. -SEE STRUCTURAL DRAWINGS.
03 30 00.A12.0	1/2" FIBER EXPANSION JOINT FILLER.
04 20 00.A01.3C	8"X8"X16" (NOM). SOLID CONCRETE BLOCK (C.M.U.). -SEE PARTITION TYPE FOR FIRE RATING.
04 20 00.A01.7	CONCRETE BLOCK (C.M.U.) BOND BEAM WITH (2) REBAR. -SEE PARTITION TYPE FOR FIRE RATING.
04 20 00.A01.11D	(CMU-01) 4" X 4" X 16" (NOM) SOLID CONCRETE BLOCK (C.M.U). -SEE PARTITION TYPE FOR FIRE RATING.
04 20 00.A01.12	(CMU-01) 4" X 8" X 16" (NOM.). SPLIT FACE CONCRETE BLOCK (C.M.U.). -SEE PARTITION TYPE FOR FIRE RATING.
04 20 00.E09.1	TWO-PIECE GALV. METAL MASONRY VENEER ANCHOR.
04 20 00.F18	RUBBERIZED ASPHALT FLASHING. INSTALL IN ACCORDANCE W/ MANUFACTURER'S INSTALLATION INSTRUCTIONS.
04 20 00.F38	CONT. STAINLESS STEEL FLASHING/DRIP EDGE.
04 20 00.G12	POLYESTER MESH WEEPS @ 24" O.C.
04 20 00.H01	AIR CAVITY.
04 20 00.X11	CAVITY MORTAR CONTROL MORTAR DIVERTER.
04 20 00.Z01	CONTINUOUS TERMINATION BAR AND SEALANT.
04 43 00.A1	MASONRY ANCHOR SELECTED AND INSTALLED BY MASONRY MANUFACTURE
04 72 00.A06	ST-01 CAST STONE SILL (SP-3) -REFERENCE EXTERIOR ELEVATIONS AND STONE BANDING PROFILES FOR TYPE AND DIMENSIONS.
05 05 23.A01	3/4" Ø ANCHOR BOLT & 1 1/2" WASHERS @ 48" O.C. MAX (MIN 7" EMBED). MIN (2) BOLTS PER BOARD & WITHIN 12" OF EACH END OR SPLICE.
05 12 00.A01.2	STRUCTURAL STEEL BEAM. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.4	STRUCTURAL STEEL ANGLE. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.9B	MTL ENDWALL RAFER/BEAM BY MTL BLDG MFR.
05 12 00.A01.12	STRUCTURAL STEEL LINTEL. -SEE STRUCTURAL DRAWINGS.
05 31 00.A01	9/16" CORRUGATED METAL DECKING. -SEE STRUCTURAL DRAWINGS.
05 40 00.A01.2B	3/4" KNIGHT HCI CLADDING ATTACHMENT.
05 40 00 E01	CONTINUOUS METAL STUD "C" RUNNER TRACK.
05 40 00.A01.1A	6" STRUCTURAL COLD-FORMED METAL STUD FRAMING @ 16" O.C. W/ R-19 (MIN.) BATT INSULATION. -SEE STRUCTURAL DRAWINGS.
05 40 00.A01.1B	8" STRUCTURAL COLD-FORMED METAL STUD FRAMING @ 16" O.C. W/ R-25 (MIN.) BATT INSULATION. -SEE STRUCTURAL DRAWINGS.
05 51 00.A01.1	PREFABRICATED STEEL PAN STAIR W/ CONCRETE FILLED TREADS.
05 52 13.A01.02	1 1/4" NOM. DIA. STEEL PIPE WALL MOUNTED HANDRAIL ATTACHED TO WALL W/ MOUNTING BRACKETS @ 32" O.C. (MAX.). NOTE: RETURN HANDRAIL ENDS TO WALL. -SEE APPLICABLE DETAILS.
06 16 43.A02	5/8" EXTERIOR FIBERGLASS MAT FACED GYPSUM WALL BOARD SHEATHING.
07 14 00.A01	SINGLE-COMPONENT FLUID-APPLIED WATERPROOFING MEMBRANE.
07 14 00.A02	DRAINAGE PANEL OVER FLUID APPLIED WATERPROOFING. INSTALL IN ACCORDANCE W/ MANUFACTURER'S STANDARD INSTALLATION PROCEDURES AND DETAILS.
07 14 00.C01	APPROVED CONT. SEALANT AND TERMINATION BAR BY WATERPROOFING MFR.
07 17 13.B03	CONT. "TREMCO" SUPERSTOP BENTONITE WATERSTOP/JOINT SEAL, OR ARCHITECT APPROVED EQUAL. INSTALL IN ACCORDANCE W/ MANUFACTURER'S RECOMMENDATIONS.
07 21 00.A02.3	2" THK. (R-10 MIN.) EXTRUDED POLYSTYRENE (XPS) RIGID BOARD INSULATION.
07 21 00.A02.3A	2" THK (R-8.4 MIN.) EXTRUDED POLYSTYRENE (XPS) RIGID BOARD PERIMETER INSULATION.
07 21 00.B01.9	(2) LAYERS R-13 VINYL FACED FIBERGLASS BATT INSULATION. FIRST LAYER DROPED LOOSE BETWEEN PURLINS. SECOND LAYER SUPPORTED BY FIRST LAYER RUNNING PARALLEL TO PURLINS.
07 21 00.F02	2" THK. MINERAL WOOL FIBER BOARD INSULATION.
07 21 00.G03	5.5" W. CLOSED-CELL POLYETHYLENE FOAM SILL SEALER.
07 25 00.A01	WEATHER BARRIER
07 25 00.I01	SELF-ADHERING RUBBERIZED ASPHALT FLASHING. INSTALL IN ACCORDANCE W/ MANUFACTURER'S INSTALLATION INSTRUCTIONS.
07 26 00.A03	15 MIL. VAPOR RETARDER/BARRIER.
07 42 13.A01	RED METAL COMPOSITE MATERIAL (MCM-01) SHEET. -SEE EXT. BLDG. MTLS. LEGEND.
07 42 13.A05	MCM ANCHOR, CLIPS AND ACCESSORIES.
07 42 13.A17	MCM WALL TERMINATION PANEL.
07 42 13.B01	HORIZONTAL RIBBED (MTL-03) METAL WALL PANEL CONCEALED FASTENED. -REFERENCE EXTERIOR BUILDING MATERIALS LEGEND AND APPLICABLE WALL SECTIONS AND DETAILS.
07 42 13.B02	8'-0" HIGH METAL PANEL PARTITION WALL AT VEHICLE BAY. SEE SPECIFICATIONS FOR CONSTRUCTION.
07 48 00.A07	2" THERMABRACKET-D RAINSCREEN ATTACHMENT BRACKET BY KNIGHTWALL OR ARCHITECT APPROVED EQUAL.
07 54 00.A02.1	TPO MEMBRANE.
07 62 00.A02.1	PRE-FINISHED METAL FLASHING AND/OR TRIM FINISH TO MATCH ADJACENT METAL PANEL.
07 62 00.A02.3	PRE-FINISHED AJ3 "J" CHANNEL AND/OR TRIM FINISH TO MATCH ADJACENT METAL PANEL.
07 84 00.A01	FIRE SAFING INSULATION WITH FIRE CAULK BOTH SIDES.
07 90 05.A04.02	3/8" W. BACKER ROD AND SEALANT.
07 90 05.B03	CONT. 3/8" W. SEALANT JOINT. COLOR TO MATCH ADJACENT MATERIAL UNLESS OTHERWISE INDICATED.
08 36 13.B01	OVERHEAD SECTIONAL DOOR. -SEE DOOR SCHEDULE.
09 21 16.C01.04	5/8" THK. PAPER FACED GYPSUM WALL BOARD.
09 21 16.D01	SUSPENDED GYPSUM BOARD CEILING SYSTEM: 5/8" GYPSUM BOARD ATTACHED TO DRYWALL GRID SYSTEM.
13 34 19.B01.01	METAL GUTTER BY PRE-ENGINEERED METAL BUILDING MANUFACTURER.
13 34 19.B01.02	GABLE TRIM CLOSURE AND EXTENSION.
13 34 19.B01.18	STANDING SEAM ROOF.
13 34 19.C01.07	METAL ROOF PURLIN BY PRE-ENGINEERED METAL BUILDING MANUFACTURER.
13 34 19.C01.12	METAL EAVE STRUT BY PRE-ENGINEERED METAL BUILDING MANUFACTURER.
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33 46 13.A02	4" PERFORATED DRAIN PIPE SURROUNDED BY 1" CLEAN CRUSHED ROCK PLACED A MINIMUM OF 6 INCHES IN ALL DIRECTIONS AROUND PIPE, ENCASED IN A MIRAFI 140N SYNTHETIC FILTER FABRIC OR ARCHITECT APPROVED EQUAL. REFERENCE CIVIL AND/OR PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

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360/340 ECOLOGY DRIVE

No.	Date	Revision

WALL SECTIONS

Project No.
23121

Sheet No.
A233

Date
09/16/2025

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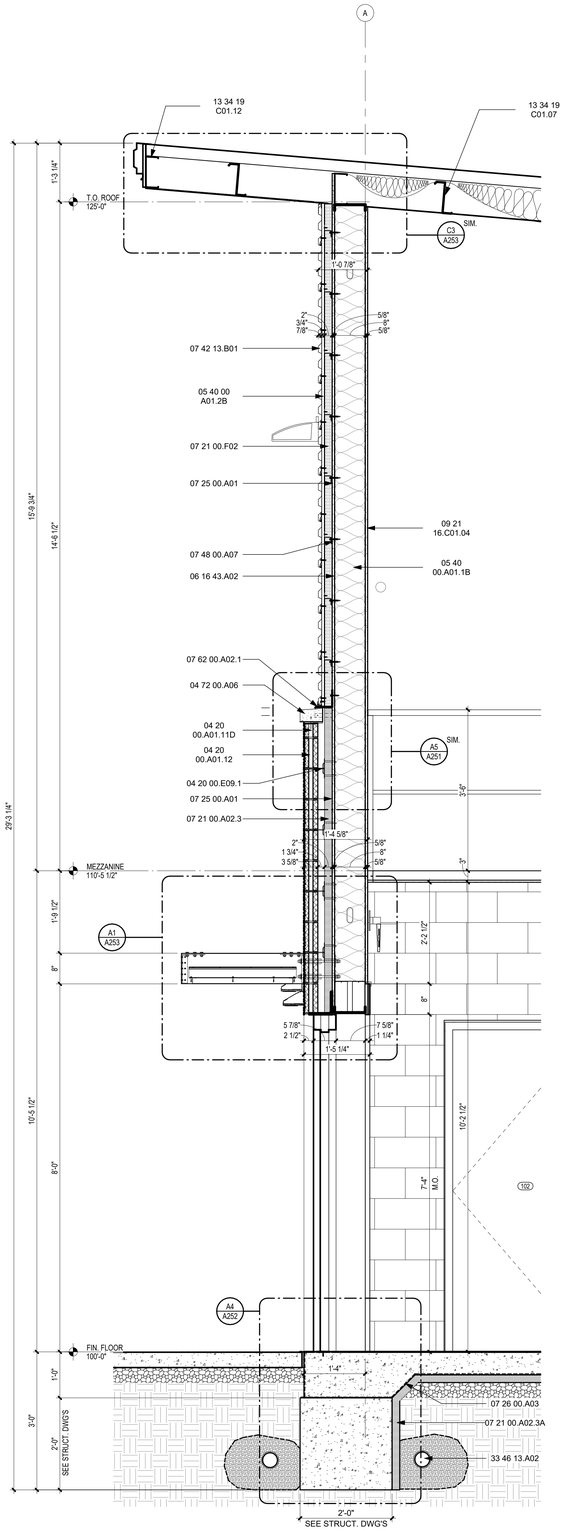
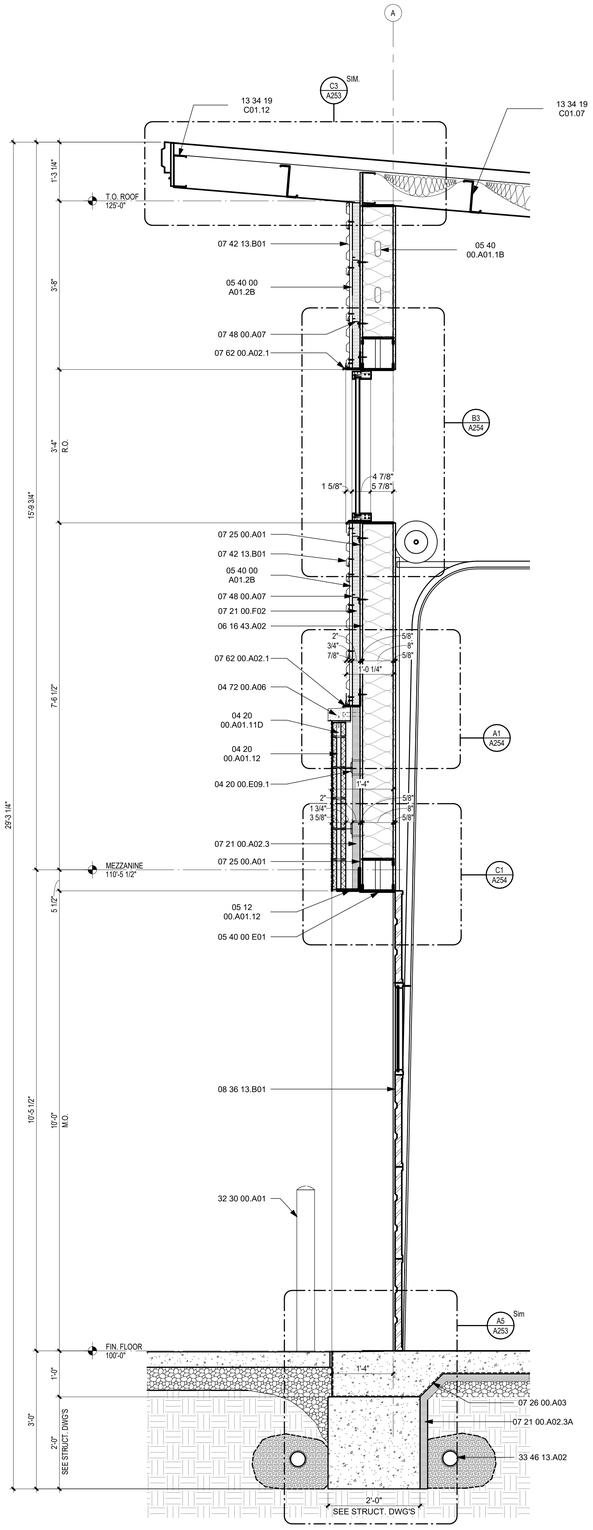


A1 WALL SECTION WEST @ EXT. DOOR
3/4" = 1'-0"



A3 WALL SECTION WEST @ 10' O.H. DOOR
3/4" = 1'-0"

WALL SECTION KEYNOTES

Key Value	Keynote Text
03 30 00.A05.01	CAST-IN-PLACE CONCRETE FOOTING. -SEE STRUCTURAL DRAWINGS.
03 30 00.A05.02	CAST-IN-PLACE CONCRETE FOUNDATION WALL. -SEE STRUCTURAL DRAWINGS.
03 30 00.A05.09	CAST-IN PLACE CONCRETE FLOOR SLAB. -SEE STRUCTURAL DRAWINGS.
03 30 00.A05.10	CAST-IN PLACE CONCRETE FLOOR SLAB OVER 9/16" CORRUGATED METAL DECKING. -SEE STRUCTURAL DRAWINGS.
03 30 00.A05.12	CAST-IN PLACE CONCRETE FLOOR SLAB OVER 15 MIL. VAPOR BARRIER OVER 4" (MIN.) COMPACTED GRANULAR BASE. -SEE STRUCTURAL DRAWINGS.
03 30 00.A12.0	1/2" FIBER EXPANSION JOINT FILLER.
04 20 00.A01.3C	8"X8"X16" (NOM). SOLID CONCRETE BLOCK (C.M.U.). -SEE PARTITION TYPE FOR FIRE RATING.
04 20 00.A01.7	CONCRETE BLOCK (C.M.U.) BOND BEAM WITH (2) REBAR. -SEE PARTITION TYPE FOR FIRE RATING.
04 20 00.A01.11D	(CMU-01) 4" X 4" X 16" (NOM) SOLID CONCRETE BLOCK (C.M.U). -SEE PARTITION TYPE FOR FIRE RATING.
04 20 00.A01.12	(CMU-01) 4" X 8" X 16" (NOM.), SPLIT FACE CONCRETE BLOCK (C.M.U.). -SEE PARTITION TYPE FOR FIRE RATING.
04 20 00.E09.1	TWO-PIECE GALV. METAL MASONRY VENEER ANCHOR.
04 20 00.F18	RUBBERIZED ASPHALT FLASHING. INSTALL IN ACCORDANCE W/ MANUFACTURER'S INSTALLATION INSTRUCTIONS.
04 20 00.F38	CONT. STAINLESS STEEL FLASHING/DRIP EDGE.
04 20 00.G12	POLYESTER MESH WEEPS @ 24" O.C.
04 20 00.H01	AIR CAVITY.
04 20 00.X11	CAVITY MORTAR CONTROL MORTAR DIVERTER.
04 20 00.Z01	CONTINUOUS TERMINATION BAR AND SEALANT.
04 43 00.A1	MASONRY ANCHOR SELECTED AND INSTALLED BY MASONRY MANUFACTURE.
04 72 00.A06	ST-01 CAST STONE SILL (SP-3) -REFERENCE EXTERIOR ELEVATIONS AND STONE BANDING PROFILES FOR TYPE AND DIMENSIONS.
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05 12 00.A01.4	STRUCTURAL STEEL ANGLE. -SEE STRUCTURAL DRAWINGS.
05 12 00.A01.9B	MTL ENDWALL RAFER/BEAM BY MTL BLDG MFR.
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07 54 00.A02.1	TPO MEMBRANE
07 62 00.A02.1	PRE-FINISHED METAL FLASHING AND/OR TRIM FINISH TO MATCH ADJACENT METAL PANEL.
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07 84 00.A01	FIRE SAFING INSULATION WITH FIRE CAULK BOTH SIDES.
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07 90 05.B03	CONT. 3/8" W. SEALANT JOINT. COLOR TO MATCH ADJACENT MATERIAL UNLESS OTHERWISE INDICATED.
08 36 13.B01	OVERHEAD SECTIONAL DOOR. -SEE DOOR SCHEDULE.
09 21 16.C01.04	5/8" THK. PAPER FACED GYPSUM WALL BOARD.
09 21 16.D01	SUSPENDED GYPSUM BOARD CEILING SYSTEM: 5/8" GYPSUM BOARD ATTACHED TO DRYWALL GRID SYSTEM.
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360/340 ECOLOGY DRIVE
ST. PETERS, MO 63376

No.	Date	Revision

WALL SECTIONS

Project No.
23121

Sheet No.
A234

Date
09/16/2025

9/13/2025 7:33:33 PM
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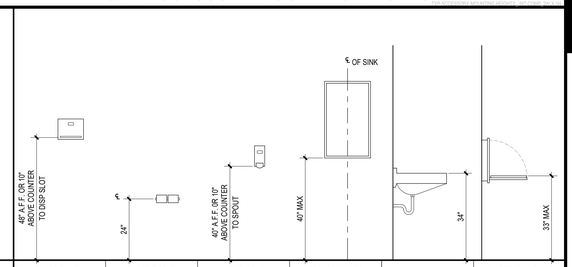
KEYED NOTES FLOOR PLAN TLT.

MARK	DESCRIPTION
1	BUILT-IN CASEWORK; SEE INTERIOR ELEVATIONS FOR DETAILS.
6	DRINKING FOUNTAIN WITH BOTTLE FILLER. SEE PLUMBING AND ELECTRICAL DWGS.
7	MOP SINK W/ MOP AND BROOM HOLDER. SEE PLUMBING DWGS.
8	SHOWER WITH FLOOR SLOPED TOWARDS DRAIN. SEE SHEET A241/D4.
21	SHOWER CURTAIN & ROD

KEYED NOTES INT. ELEV. TLT.

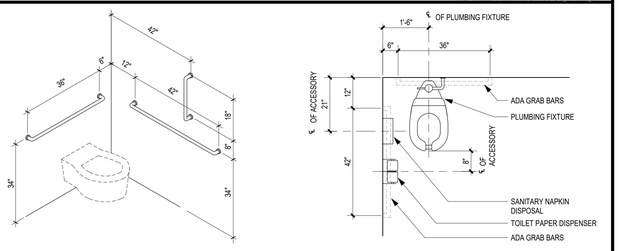
MARK	DESCRIPTION
6	BUILT IN VANITY TOP WITH 25" D SOLID SURFACE COUNTER WITH INTEGRAL SINK, ANGLED PLAS. LAMINATE ADA VANITY CABINET, SEE FINISH SCHEDULE
7	TOILET PARTITIONS FLOOR MOUNTED OVERHEAD BRACED, SOLID PHENOLIC SEE FINISH SCHEDULE
8	BASE AS SCHEDULED, SEE FINISH SCHEDULE
9	PROVIDE & INSTALL STEEL HEAVY DUTY CORRIDOR STYLE LOCKERS, LYON OR APPROVED, SINGLE TIER, 18"W X 24"D, STAINLESS STEEL RECESSED HANDLE INCLUDE SLOPED TOPS AND CLOSED BASES, NUMBER PLATES, ANCHOR TO FLOOR & WALL, STANDARD POWDERCOAT COLORS, TBD.
10	PROVIDE & INSTALL HARDWOOD LOCKER ROOM BENCH, LYON OR APPROVED EQUAL, MOVEABLE BLACK ALUMINUM TRAPEZOID PEDESTAL BASES
11	PORCELAIN WALL TILE. SEE FINISH SCHEDULE
16	DRINKING FOUNTAIN WITH BOTTLE FILLER. SEE PLUMBING AND ELECTRICAL DWGS.

TYPICAL ACCESSORY MOUNTING HEIGHTS



ACCESSORY TYPE	PAPER TOWEL DISPENSER	TOILET TISSUE DISPENSER	VANITY SOAP DISPENSER	FRAMED VANITY MIRROR	LAVATORY	DIAPER CHANGING STATION
COMMENTS	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	WALL MOUNTED	SURFACE MOUNTED

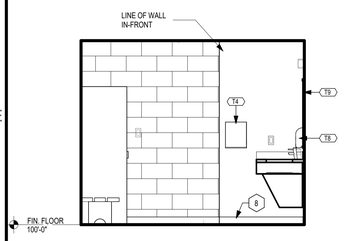
TYPICAL TOILET ACCESSORY MOUNTING HEIGHTS & PLAN



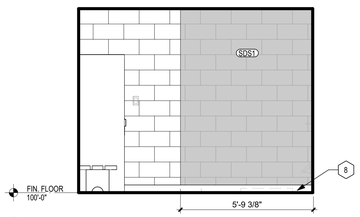
ADA TOILET GRAB BAR	TYPICAL ACCESSORIES AT ACCESSIBLE TOILET
SURFACE MOUNTED	NOTE: SANITARY NAPKIN DISPOSAL AT WOMEN'S & UNISEX ONLY

TOILET ACCESSORY SCHEDULE

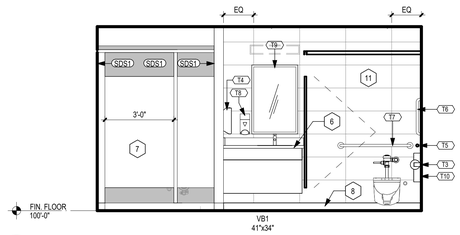
TYPE MARK	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	FINISH	REMARKS
T1	PHENOLIC TOILET PARTITION	Bradley Corporation	C3066150	PHENOLIC CORE	
T2	URINAL SCREEN (WALL HUNG)	Bradley Corporation	C1964735	PHENOLIC CORE	
T3	TOILET PAPER DISP. SURFACE MOUNTED, MULTI ROLL	BOBRICK	B-265	SATIN STAINLESS	
T4	PAPER TOWEL DISPENSER	BOBRICK	B-4262	SATIN STAINLESS	
T5	42" HORIZONTAL GRAB BAR	BOBRICK	B-6806x42	SATIN STAINLESS	
T6	18" VERTICAL GRAB BAR	BOBRICK	B-6806x18	SATIN STAINLESS	
T7	36" HORIZONTAL GRAB BAR	BOBRICK	B-6806x36	SATIN STAINLESS	
T8	SOAP DISPENSER	BOBRICK	B-4063	PLASTIC TRANSLUCENT COVER	
T9	MIRROR W/ S.S. CHANNEL FRAME	BOBRICK		STAINLESS STEEL TRIMGLASS	
T10	SANITARY NAPKIN DISPOSAL	BOBRICK	B-270	SATIN STAINLESS	
T12					
T13	MOP & BROOM HOLDER	BOBRICK	B-223X36		



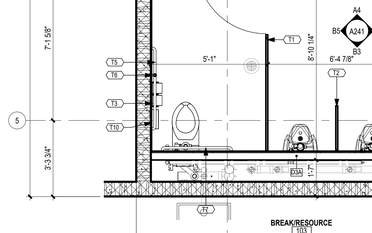
E1 WOMEN'S SOUTH 106
3/8" = 1'-0"



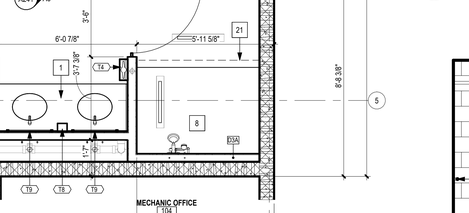
E2 WOMEN'S SOUTH 106 2
3/8" = 1'-0"



E3 WOMEN'S WEST 106
3/8" = 1'-0"



D1 WOMEN'S NORTH 106
3/8" = 1'-0"



D2 WOMEN'S EAST 106
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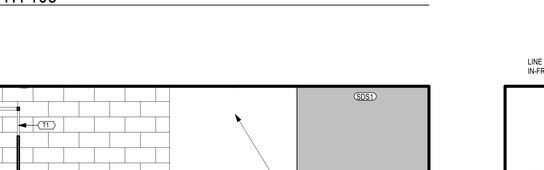
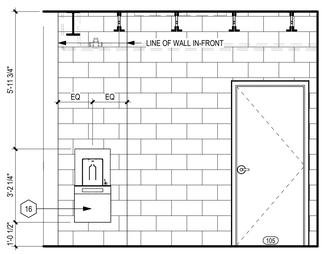
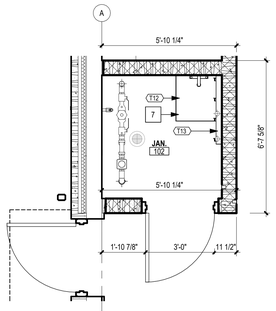


D4 SHOWER DRAIN TYP.
1 1/2" = 1'-0"

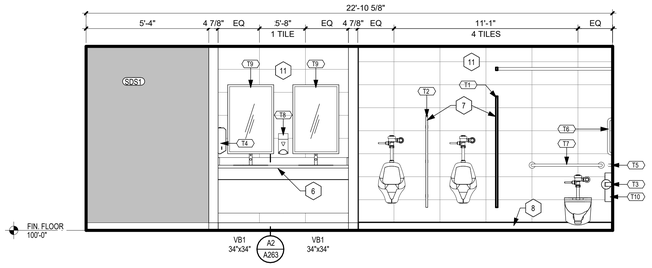
A1 ENLARGED PLAN MEN'S/WOMEN'S 105/106
3/8" = 1'-0"



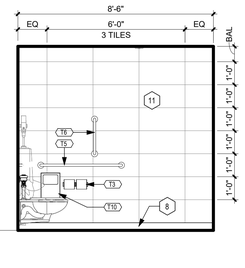
C3 DRINKING FOUTAIN NORTH
3/8" = 1'-0"



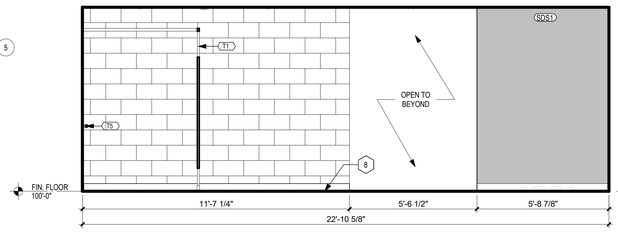
C4 ENLARGED PLAN JAN. 102
3/8" = 1'-0"



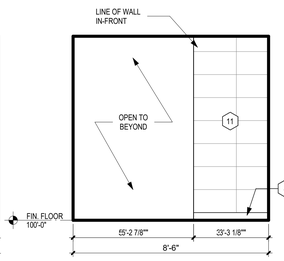
B3 MEN'S SOUTH 105
3/8" = 1'-0"



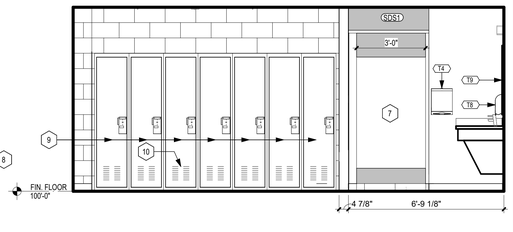
B5 MEN'S WEST 105
3/8" = 1'-0"



A4 MEN'S NORTH 105
3/8" = 1'-0"



A5 MEN'S EAST 105
3/8" = 1'-0"



A6 MENS EAST 105 2
3/8" = 1'-0"

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360/340 ECOLOGY DRIVE
ST. PETERS, MO 63376

No.	Date	Revision

ENLARGED PLANS & ELEVATIONS

Project No. 23121

Sheet No. A241

Date 09/16/2025

9/16/2025 9:43:57 AM
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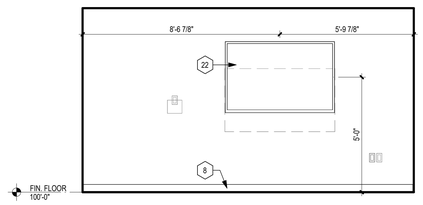
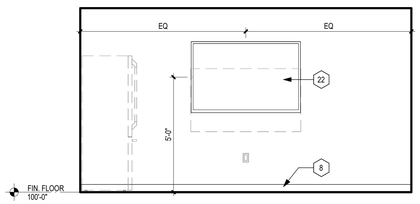
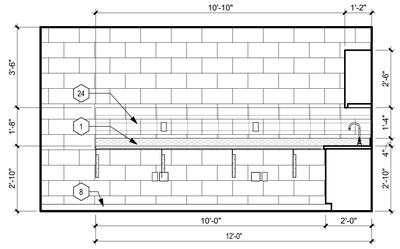


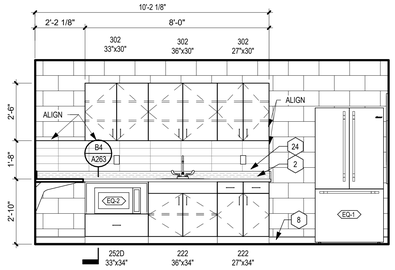
D1 MECHANIC OFFICE 105 EAST
3/8" = 1'-0"



D2 BREAK/RESOURCE WEST 103
3/8" = 1'-0"



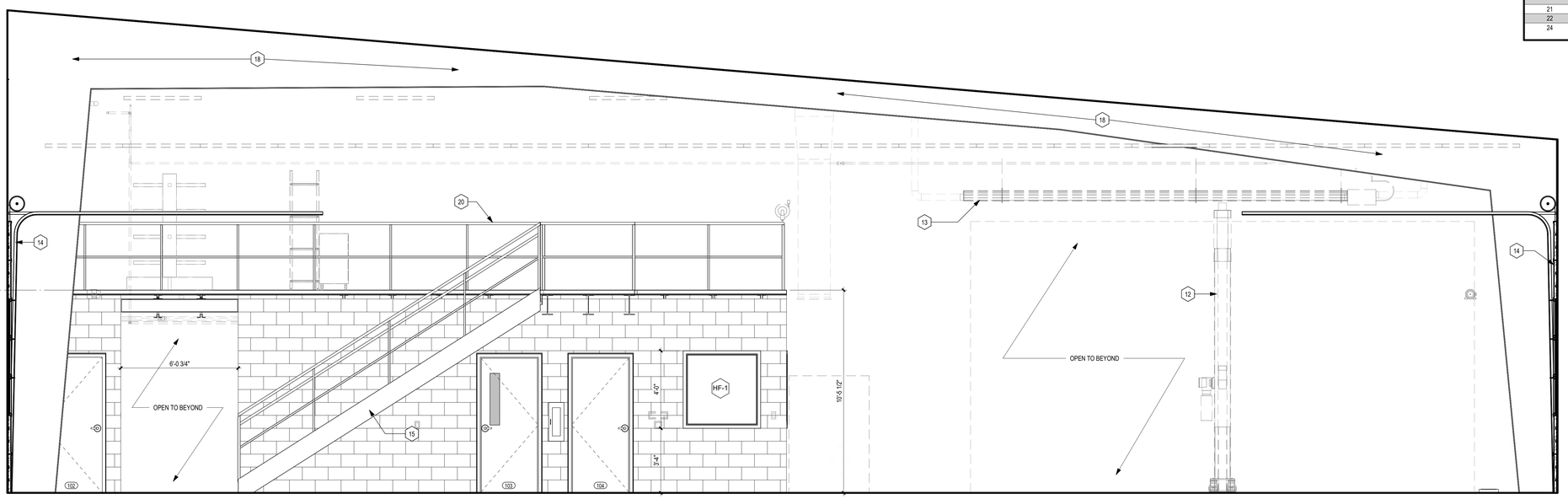
D4 BREAK/RESOURCE EAST 103
3/8" = 1'-0"



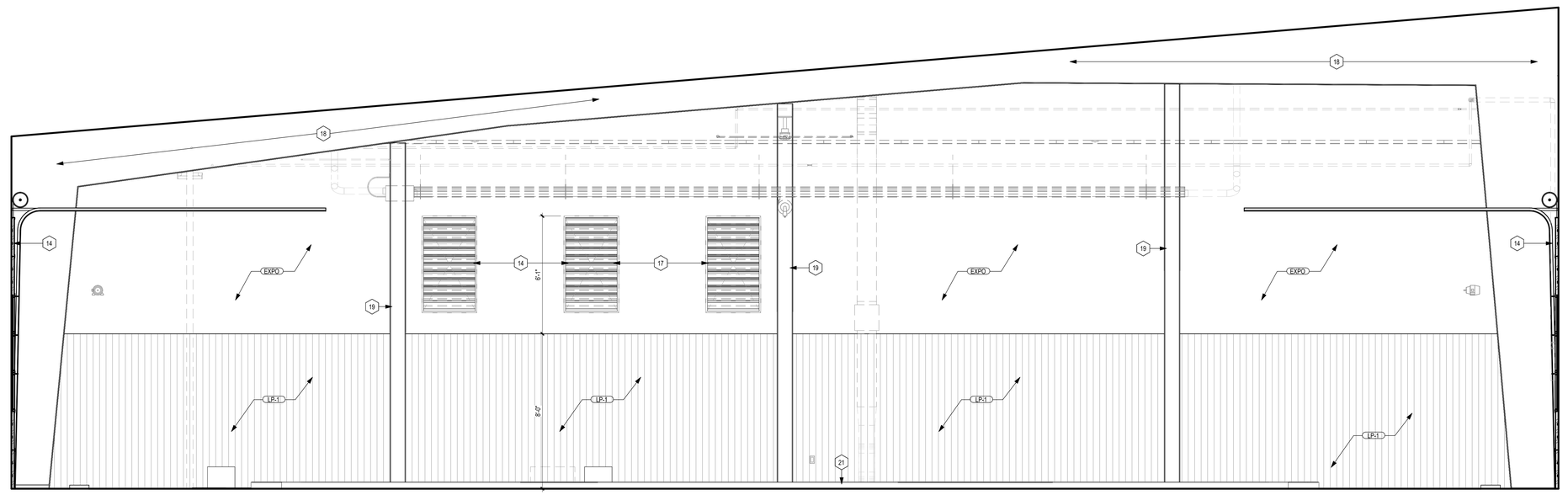
D5 BREAK/RESOURCE SOUTH 103
3/8" = 1'-0"

KEYED NOTES INT. ELEV.

MARK	DESCRIPTION
1	25"D SOLID SURFACE COUNTER, 4"H BACKSPLASH & SIDESPLASHS (LEFT OR RIGHT SIDE, AS REQUIRED) W/ UNDER COUNTER METAL SUPPORT BRACKETS AS INDICATED. -SEE FINISH SCHEDULE.
2	25"D SOLID SURFACE COUNTER, 4"H BACKSPLASH & SIDESPLASHS (LEFT OR RIGHT SIDE, AS REQUIRED) W/ PLASTIC LAMINATE BASE AND WALL CABINETS AS INDICATED - SEE FINISH SCHEDULE
3	TIRE STORAGE RACK, COORDINATE INSTALLATION WITH OWNER-SUPPLIED EQUIPMENT.
4	CLERESTORY STOREFRONT, SEE STOREFRONT ELEVATIONS FOR DETAILS.
6	BUILT IN VANITY TOP WITH 25" D SOLID SURFACE COUNTER WITH INTEGRAL SINK, ANGLED PLAS. LAMINATE ADA VANITY CABINET, SEE FINISH SCHEDULE
7	TOILET PARTITIONS FLOOR MOUNTED OVERHEAD BRACED, SOLID PHENOLIC SEE FINISH SCHEDULE
8	BASE AS SCHEDULED, SEE FINISH SCHEDULE
9	PROVIDE & INSTALL STEEL HEAVY DUTY CORRIDOR STYLE LOCKERS, LYON OR APPROVED, SINGLE TIER, 18"W X 24"D, STAINLESS STEEL RECESSED HANDLE INCLUDE SLOPED TOPS AND CLOSED BASES, NUMBER PLATES, ANCHOR TO FLOOR & WALL, STANDARD POWDERCOAT COLORS, TBD.
10	PROVIDE & INSTALL HARDWOOD LOCKER ROOM BENCH, LYON OR APPROVED EQUAL, MOVEABLE BLACK ALUMINUM TRAPEZOID PEDESTAL BASES
11	PORCELAIN WALL TILE, SEE FINISH SCHEDULE
12	VEHICLE LIFT ROTARY, ALIGN ELECTRICAL SUPPLY WITH EQUIPMENT OUTLET- SEE EQUIPMENT SCHEDULE
13	SUSPENDED HIGH EFFICIENCY REFLECTOR, GAS-FIRED, LOW INTENSITY UNITARY HEATER. MOUNT PER MANUFACTURER'S RECOMMENDATION. -SEE MECHANICAL FOR FIXTURE SPECIFICATIONS.
14	MOTORIZED GARAGE SECTION DOOR AND TRACK. -SEE DOOR SCHEDULE.
15	STAIR TO MEZZANINE, SEE STAIR DETAILS.
16	DRINKING FOUNTAIN WITH BOTTLE FILLER. SEE PLUMBING AND ELECTRICAL DWGS.
17	34" X 60" LOUVER, SEE MECHANICAL DWGS.
18	PEMB STEEL FRAME BY PEMB MFR.
19	DESIGNATED COLUMN FOR PORTAL FRAME BY PEMB MFR.
20	TYPICAL STEEL PIPE RAILING. SEE SHEET A262 FOR DETAIL AND MOUNTING INFORMATION.
21	6" CONCRETE CURB AROUND PIT PERIMETER.
22	65" MONITOR PROVIDE BLOCKING, SEE ELECTRICAL DWGS.
24	TILE BACKSPLASH, ANY DEVICES BRING OUT TO FACE OF TILE , ALL PERIMETER EDGES SCHLUTER TRIM TR1- SEE FINISH SCHEDULE



C1 SERVICE BAYS SOUTH 107
3/8" = 1'-0"



A1 SERVICE BAYS NORTH 107
3/8" = 1'-0"

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No.	Date	Revision

INTERIOR ELEVATIONS

Project No.
23121

Sheet No.
A242

Date
09/16/2025

9/13/2025 7:33:41 PM
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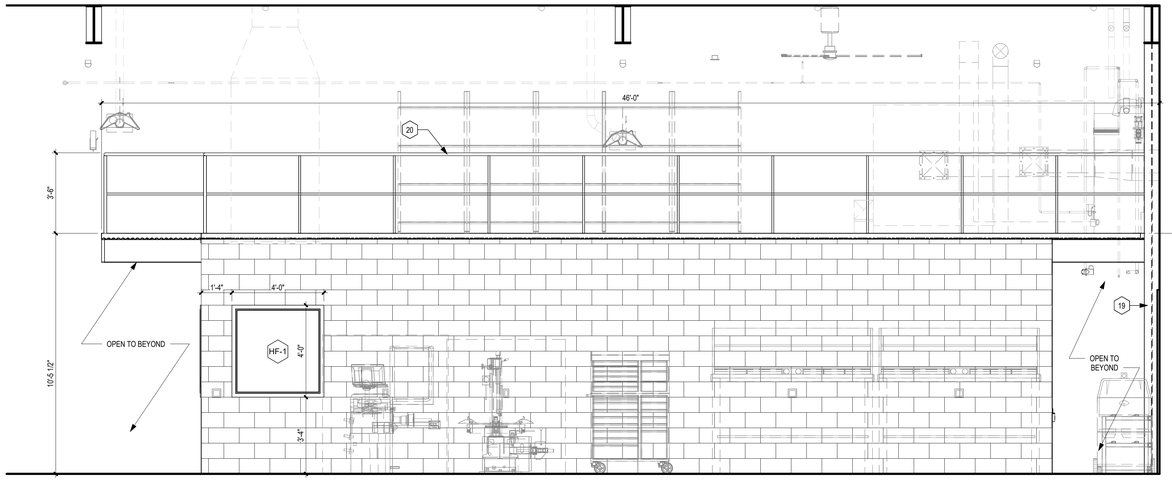
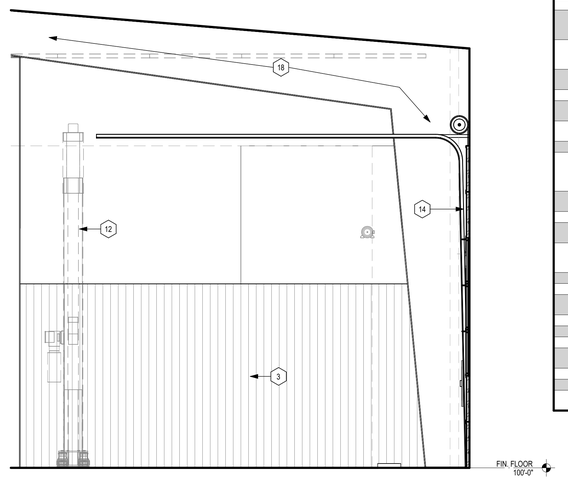


D1 SERVICE BAYS EAST 107
3/8" = 1'-0"



D5 SERVICE BAYS SOUTH 107 2
3/8" = 1'-0"

KEYED NOTES INT. ELEV.

MARK	DESCRIPTION
1	25"D SOLID SURFACE COUNTER, 4"H BACKSPLASH & SIDESPLASHS (LEFT OR RIGHT SIDE, AS REQUIRED) W/ UNDER COUNTER METAL SUPPORT BRACKETS AS INDICATED. -SEE FINISH SCHEDULE.
2	25"D SOLID SURFACE COUNTER, 4"H BACKSPLASH & SIDESPLASHS (LEFT OR RIGHT SIDE, AS REQUIRED) W/ PLASTIC LAMINATE BASE AND WALL CABINETS AS INDICATED - SEE FINISH SCHEDULE
3	TIRE STORAGE RACK, COORDINATE INSTALLATION WITH OWNER-SUPPLIED EQUIPMENT.
4	CLERESTORY STOREFRONT, SEE STOREFRONT ELEVATIONS FOR DETAILS.
6	BUILT IN VANITY TOP WITH 25" D SOLID SURFACE COUNTER WITH INTEGRAL SINK, ANGLED PLAS. LAMINATE ADA VANITY CABINET, SEE FINISH SCHEDULE
7	TOILET PARTITIONS FLOOR MOUNTED OVERHEAD BRACED, SOLID PHENOLIC SEE FINISH SCHEDULE
8	BASE AS SCHEDULED, SEE FINISH SCHEDULE
9	PROVIDE & INSTALL STEEL HEAVY DUTY CORRIDOR STYLE LOCKERS, LYON OR APPROVED, SINGLE TIER, 18"W X 24"D, STAINLESS STEEL RECESSED HANDLE INCLUDE SLOPED TOPS AND CLOSED BASES, NUMBER PLATES, ANCHOR TO FLOOR & WALL, STANDARD POWDERCOAT COLORS, TBD.
10	PROVIDE & INSTALL HARDWOOD LOCKER ROOM BENCH, LYON OR APPROVED EQUAL, MOVEABLE BLACK ALUMINUM TRAPEZOID PEDESTAL BASES
11	PORCELAIN WALL TILE, SEE FINISH SCHEDULE
12	VEHICLE LIFT ROTARY, ALIGN ELECTRICAL SUPPLY WITH EQUIPMENT OUTLET- SEE EQUIPMENT SCHEDULE
13	SUSPENDED HIGH EFFICIENCY REFLECTOR, GAS-FIRED, LOW INTENSITY UNITARY HEATER. MOUNT PER MANUFACTURER'S RECOMMENDATION. -SEE MECHANICAL FOR FIXTURE SPECIFICATIONS.
14	MOTORIZED GARAGE SECTION DOOR AND TRACK. -SEE DOOR SCHEDULE.
15	STAIR TO MEZZANINE, SEE STAIR DETAILS.
16	DRINKING FOUNTAIN WITH BOTTLE FILLER. SEE PLUMBING AND ELECTRICAL DWGS.
17	34" X 60" LOUVER, SEE MECHANICAL DWGS.
18	PEMB STEEL FRAME BY PEMB MFR.
19	DESIGNATED COLUMN FOR PORTAL FRAME BY PEMB MFR.
20	TYPICAL STEEL PIPE RAILING. SEE SHEET A262 FOR DETAIL AND MOUNTING INFORMATION.
21	6" CONCRETE CURB AROUND PIT PERIMETER.
22	65" MONITOR PROVIDE BLOCKING, SEE ELECTRICAL DWGS.
24	TILE BACKSPLASH, ANY DEVICES BRING OUT TO FACE OF TILE . ALL PERIMETER EDGES SCHLUTER TRIM TR1- SEE FINISH SCHEDULE

B1 SERVICE BAYS EAST 107
3/8" = 1'-0"

B5 FLUIDS ROOM 100 WEST
3/8" = 1'-0"

A1 SERVICE BAYS WEST 107
3/8" = 1'-0"

A3 SERVICE BAYS WEST 107
3/8" = 1'-0"

A5 SERVICE BAYS WEST 107
3/8" = 1'-0"

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No.	Date	Revision

INTERIOR ELEVATIONS

Project No.
23121

Sheet No.
A243

Date
09/16/2025

9/13/2025 7:33:45 PM
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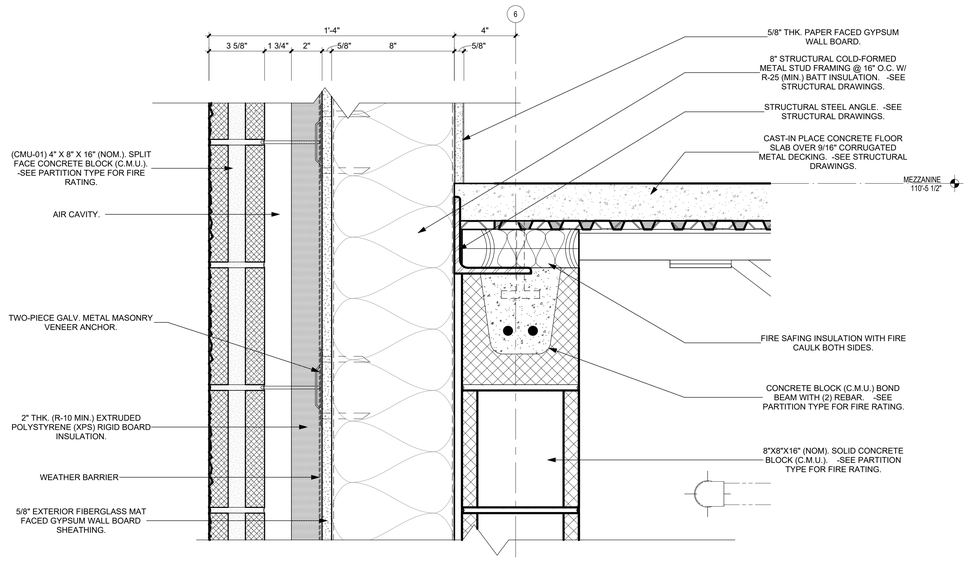
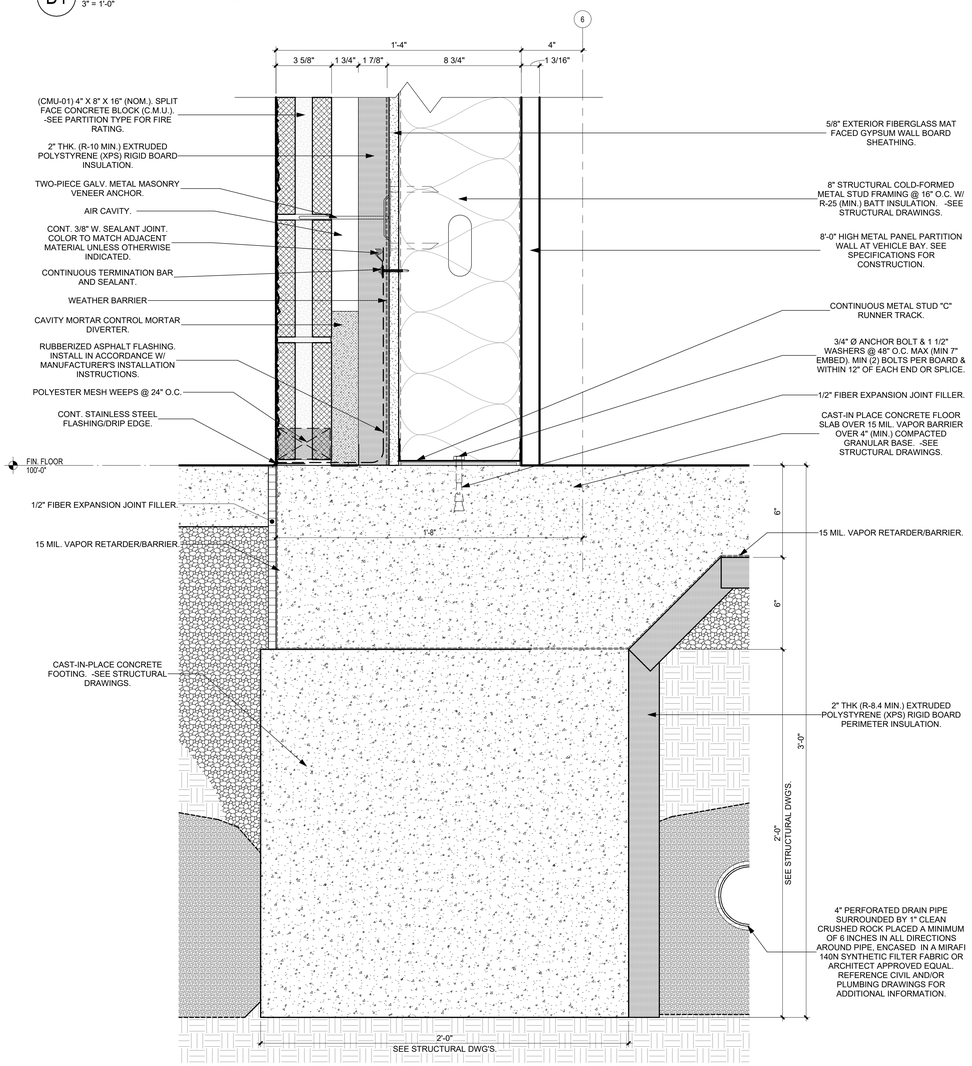
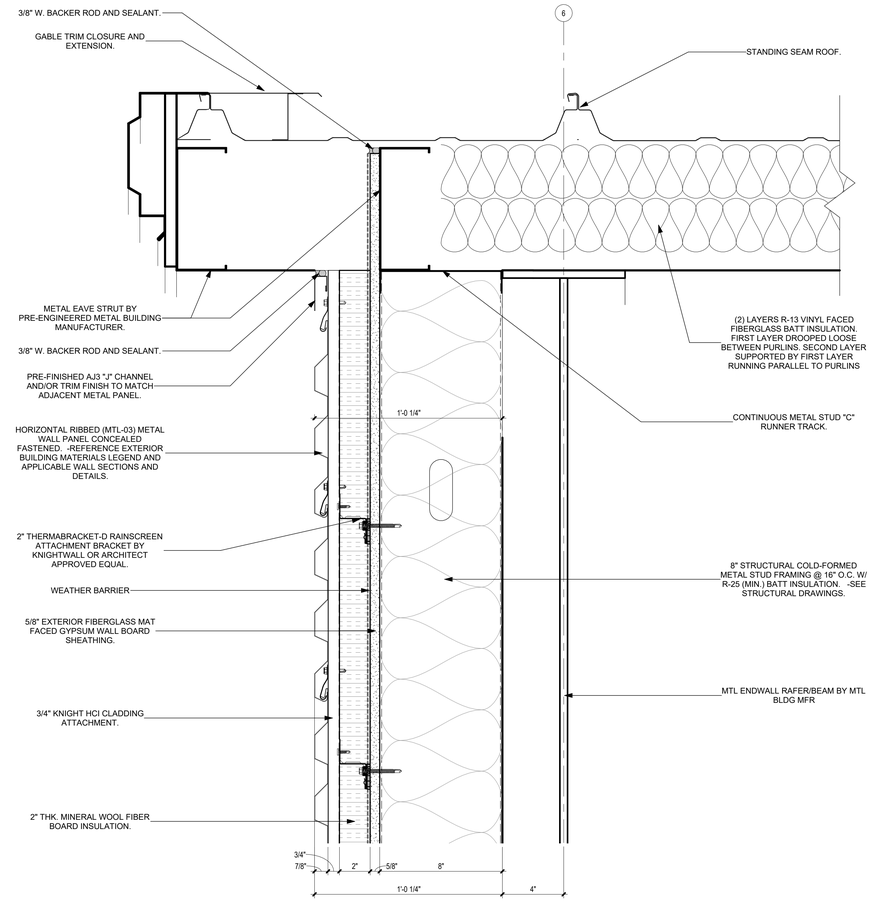
SCALE: 3" = 1'-0" 1" 6" 3" 0
SCALE: 1 1/2" = 1'-0" 2" 6" 3" 0
SCALE: 1" = 1'-0" 2" 1' 6" 0
SCALE: 3/4" = 1'-0" 2" 1' 0
SCALE: 1/2" = 1'-0" 2" 1' 0
SCALE: 3/8" = 1'-0" 4" 2" 0
SCALE: 1/4" = 1'-0" 8" 4" 0
SCALE: 1/8" = 1'-0" 16" 8" 0
SCALE: 3/32" = 1'-0" 24" 16" 8" 0
SCALE: 1/16" = 1'-0" 32" 16" 8" 0



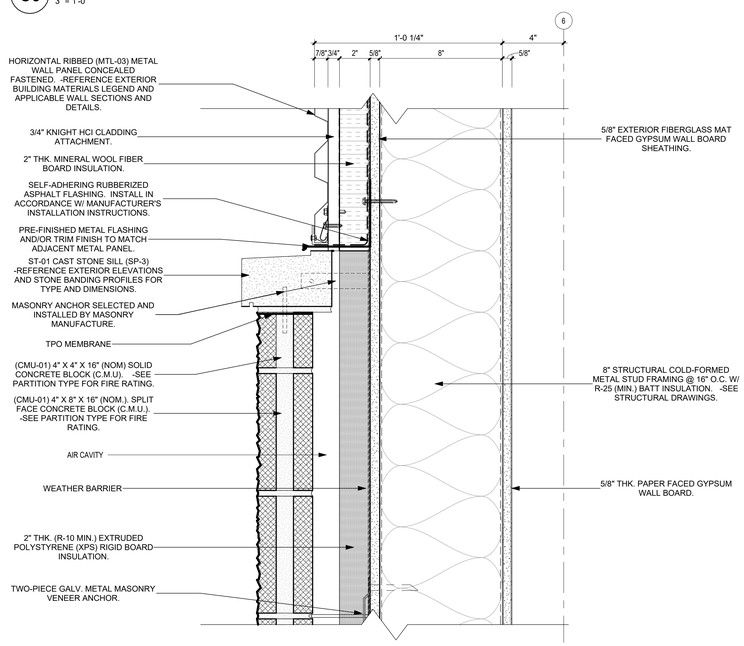
D1 SECTION DETAIL @ RESTROOM WALL
3" = 1'-0"



A1 SECTON DETAIL @ FLUIDS ROOM 100 - LOWER
3" = 1'-0"



C5 SECTION DETAIL @ SERVICE BAYS ROOF
3" = 1'-0"



A5 SECTION DETAIL @ FLUIDS ROOM 100 - UPPER
3" = 1'-0"

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360/340 ECOLOGY DRIVE

No.	Date	Revision

DETAILS

Project No. 23121

Sheet No. A251

Date 09/16/2025

SCALE: 3" = 1'-0" 1' 6" 3" 0
SCALE: 1 1/2" = 1'-0" 1' 6" 3" 0
SCALE: 1" = 1'-0" 2' 1' 6" 0
SCALE: 3/4" = 1'-0" 3" 2" 1" 0
SCALE: 1/2" = 1'-0" 4" 2" 1" 0
SCALE: 3/8" = 1'-0" 4" 2" 0
SCALE: 1/4" = 1'-0" 8" 4" 2" 0
SCALE: 1/8" = 1'-0" 16" 8" 4" 0
SCALE: 3/32" = 1'-0" 24" 16" 8" 0
SCALE: 1/16" = 1'-0" 32" 16" 8" 0

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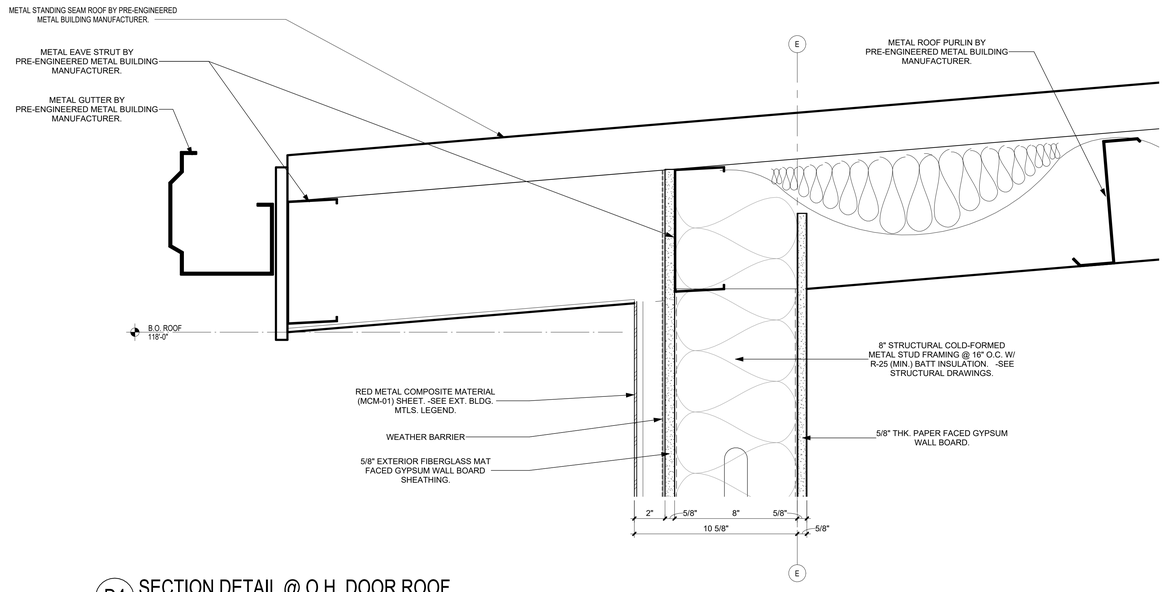
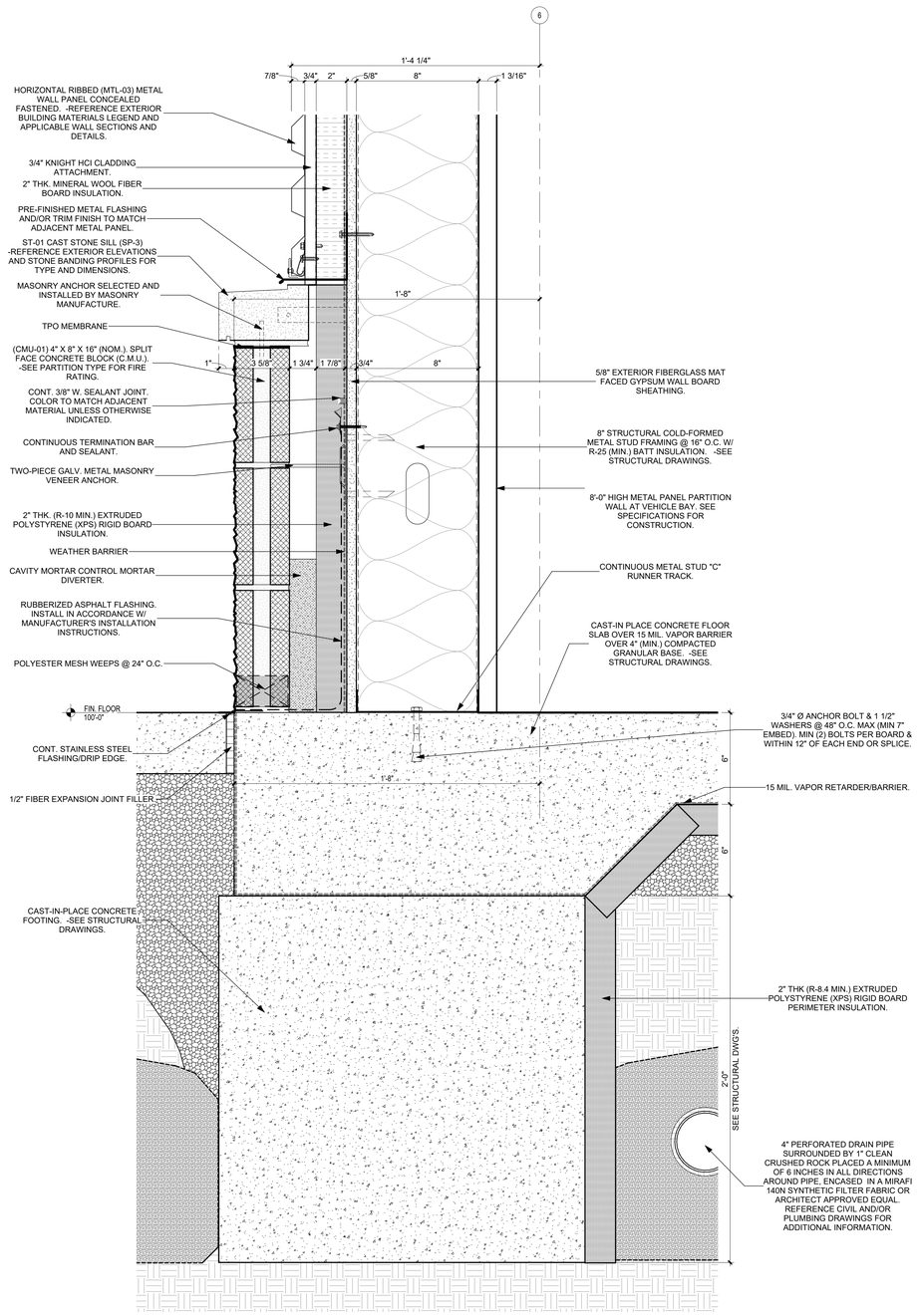


D4 SECTION DETAIL @ O.H. DOOR ROOF
3" = 1'-0"



A1 SECTION DETAIL @ WALL TANSITION CMU TO MTL PANEL.
3" = 1'-0"

A4 SECTION DETAIL @ EXT. DOOR
3" = 1'-0"

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No.	Date	Revision

DETAILS

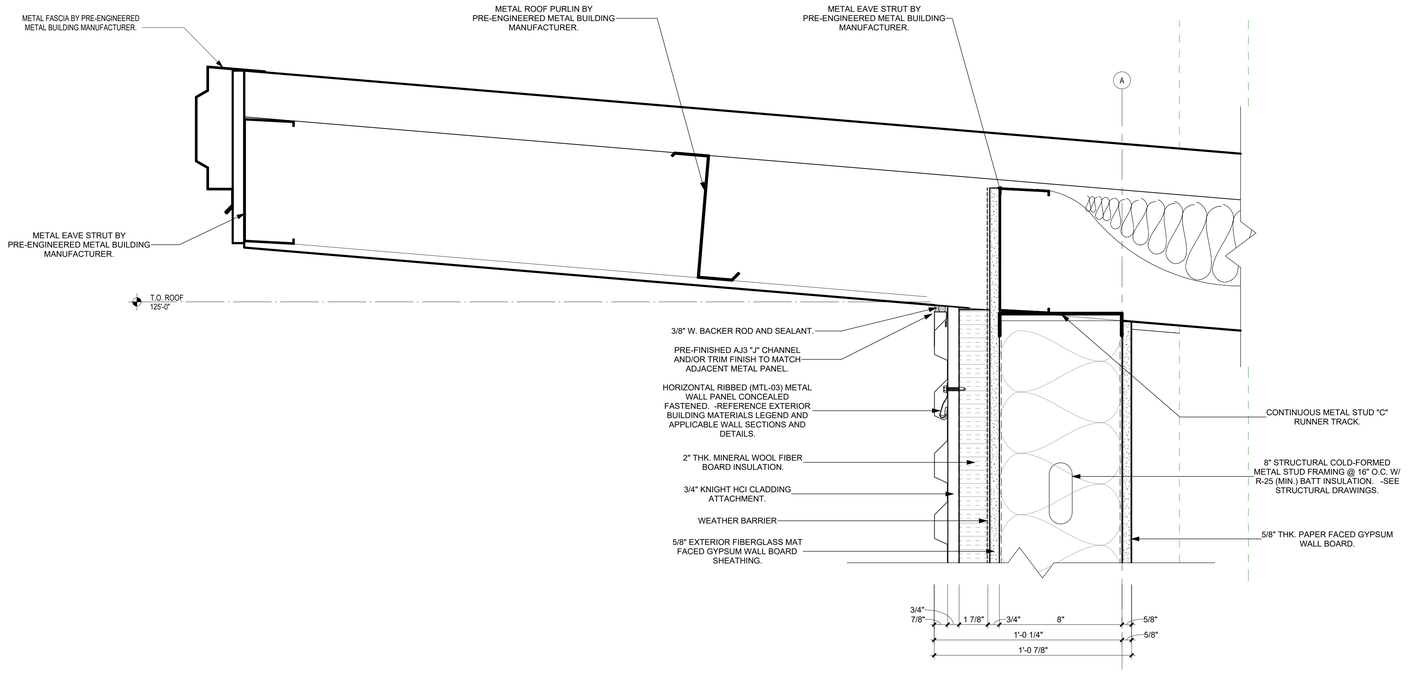
Project No.
23121

Sheet No.
A252

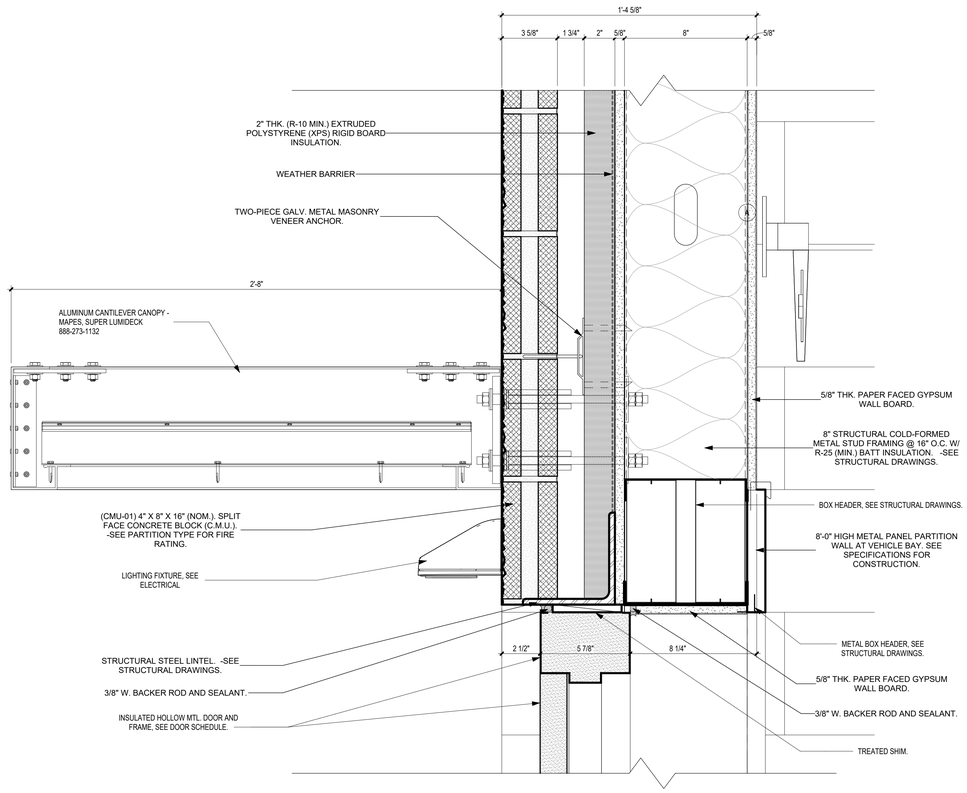
Date
09/16/2025

9/13/2025 7:33:48 PM
C:\Users\ricklefs\Documents\23121 Central Co Fire Training Facility_Maintenance-Storage Facility_R23_ricklefs.rvt

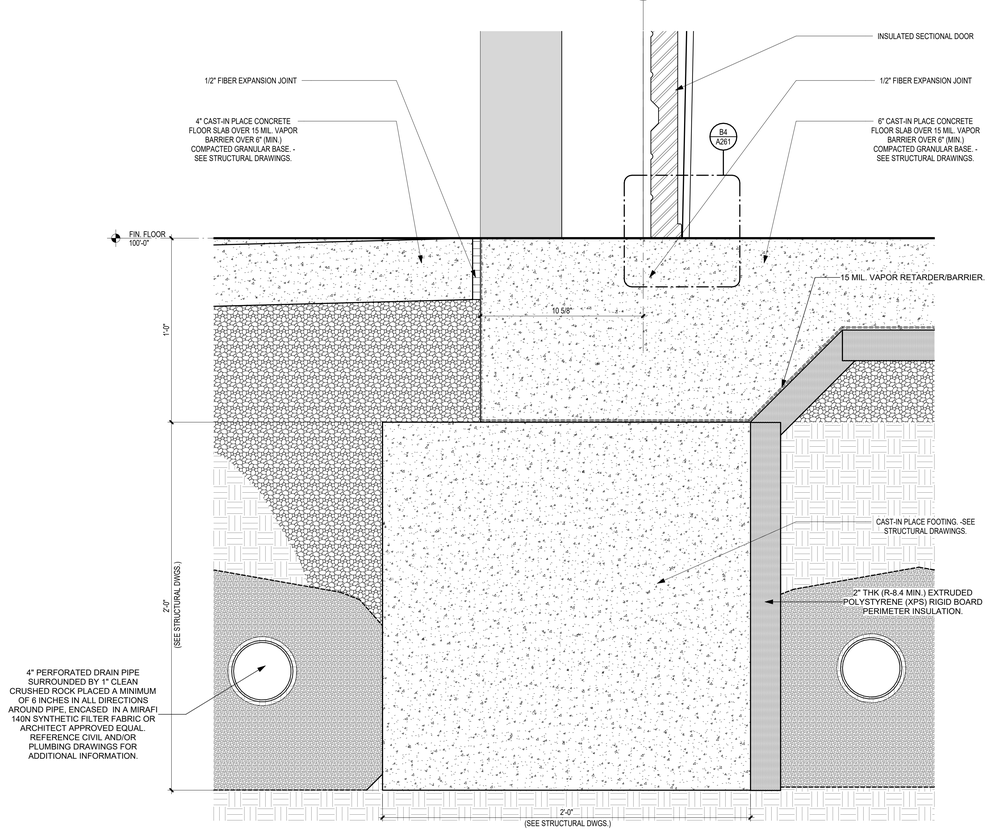
SCALE: 3" = 1'-0"
SCALE: 1 1/2" = 1'-0"
SCALE: 1" = 1'-0"
SCALE: 3/4" = 1'-0"
SCALE: 1/2" = 1'-0"
SCALE: 3/8" = 1'-0"
SCALE: 1/4" = 1'-0"
SCALE: 1/8" = 1'-0"
SCALE: 3/32" = 1'-0"
SCALE: 1/16" = 1'-0"



C3 SECTION DETAIL @ O.H. DOOR ROOF
3" = 1'-0"



A1 SECTION DETAIL @ EXT. DOOR HEAD
3" = 1'-0"



A5 SECTION DETAIL @ O.H. DOOR
3" = 1'-0"

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No.	Date	Revision

DETAILS

Project No. 23121

Sheet No. A253

Date 09/16/2025

9/15/2025 10:47:18 AM
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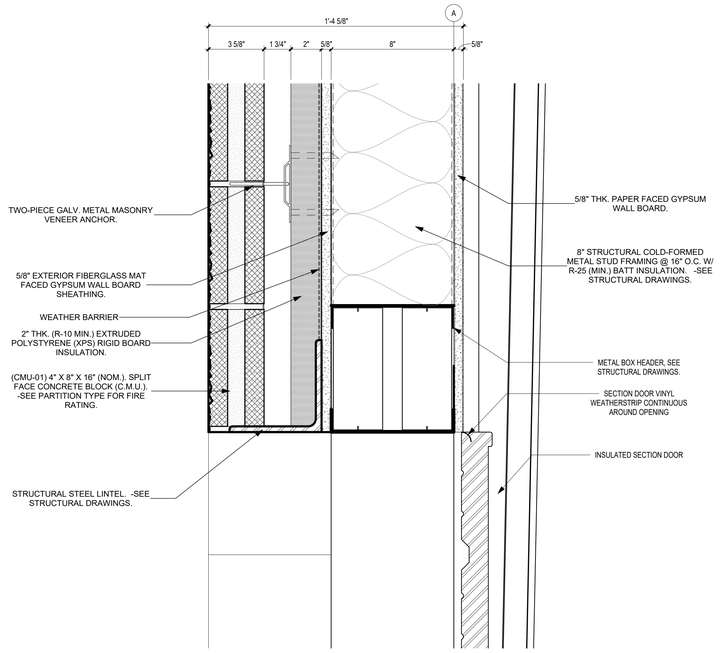
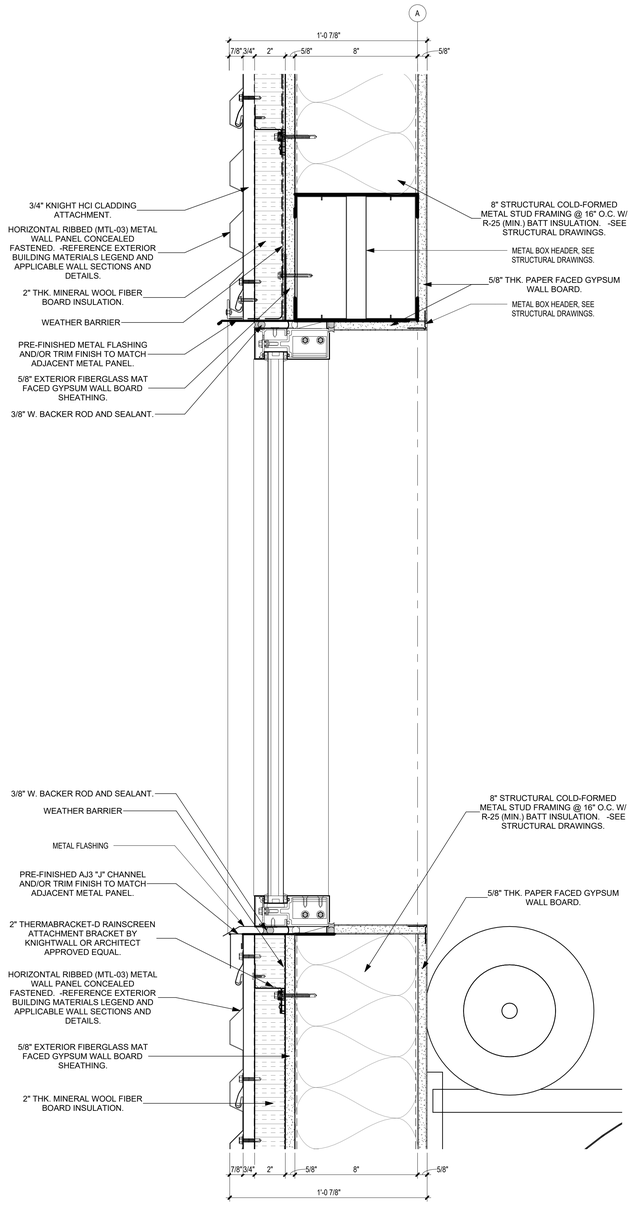
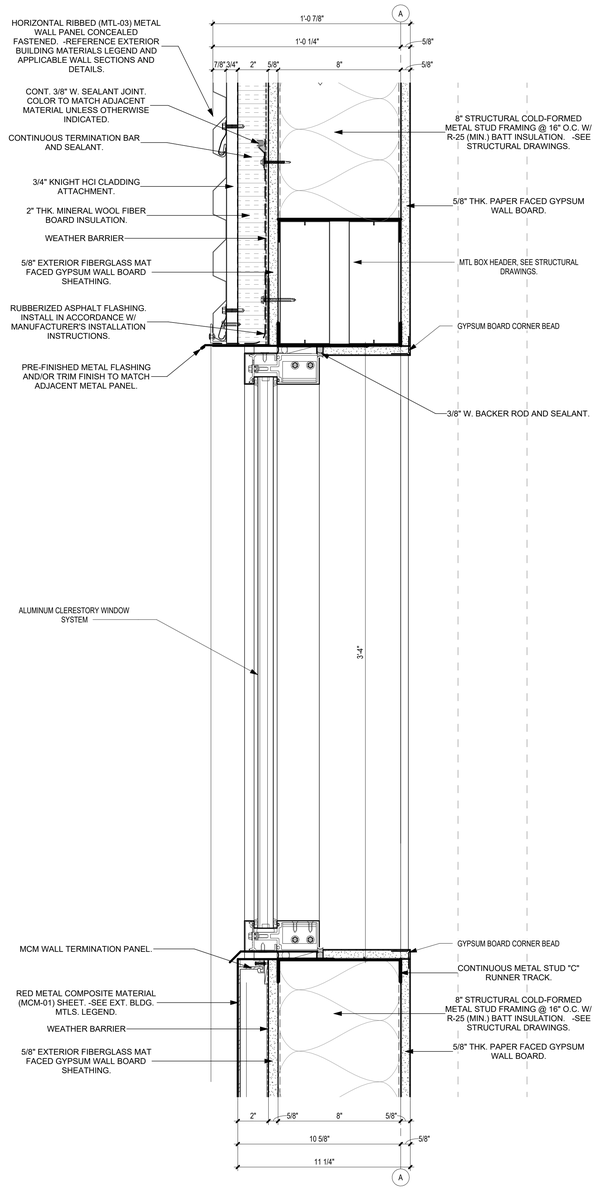


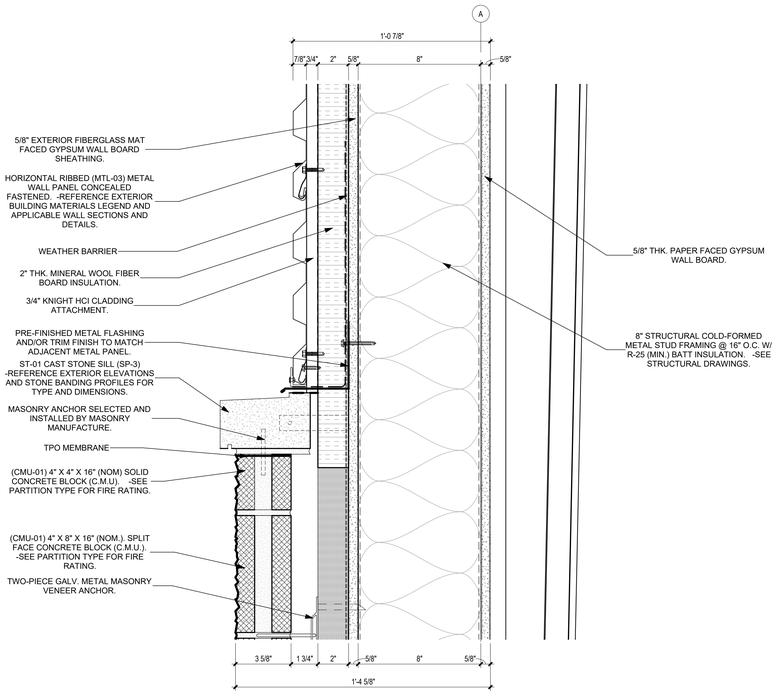
C1 SECTION DETAIL @ O.H. DOOR OPENING
3" = 1'-0"



B3 SECTION DETAIL @ 10' O.H. DOOR CLERESTORY
3" = 1'-0"



B5 SECTION DETAIL @ SERVICE BAYS CLERESTORY
3" = 1'-0"



A1 SECTION DETAIL @ O.H. DOOR
3" = 1'-0"

B3 SECTION DETAIL @ 10' O.H. DOOR CLERESTORY
3" = 1'-0"

B5 SECTION DETAIL @ SERVICE BAYS CLERESTORY
3" = 1'-0"

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No.	Date	Revision

DETAILS

Project No. 23121

Sheet No. A254

Date 09/16/2025

9/13/2025 7:33:52 PM
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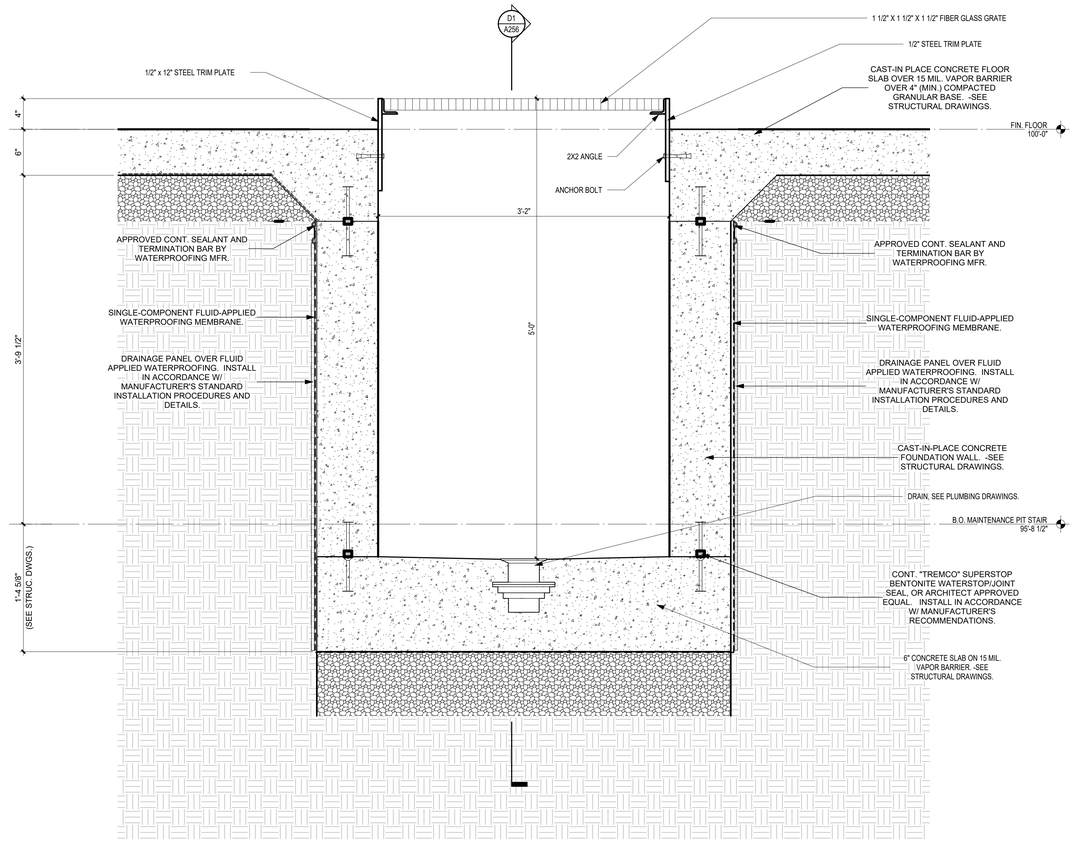
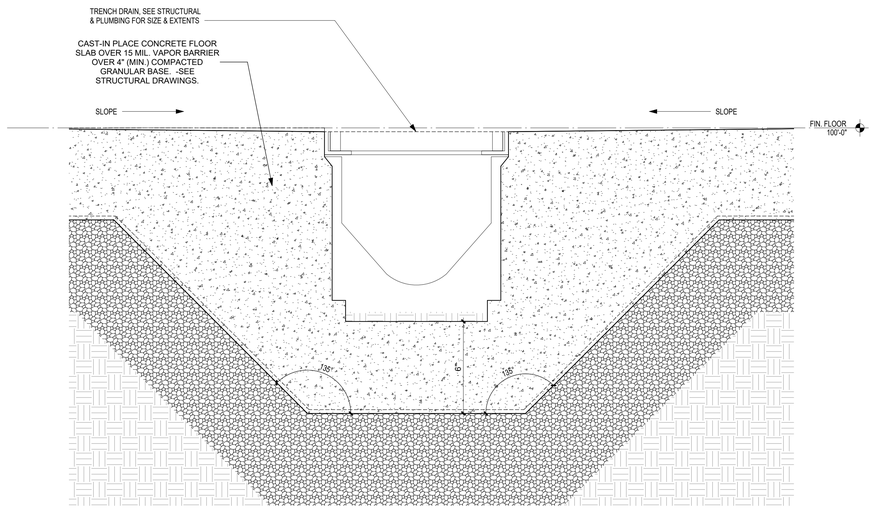
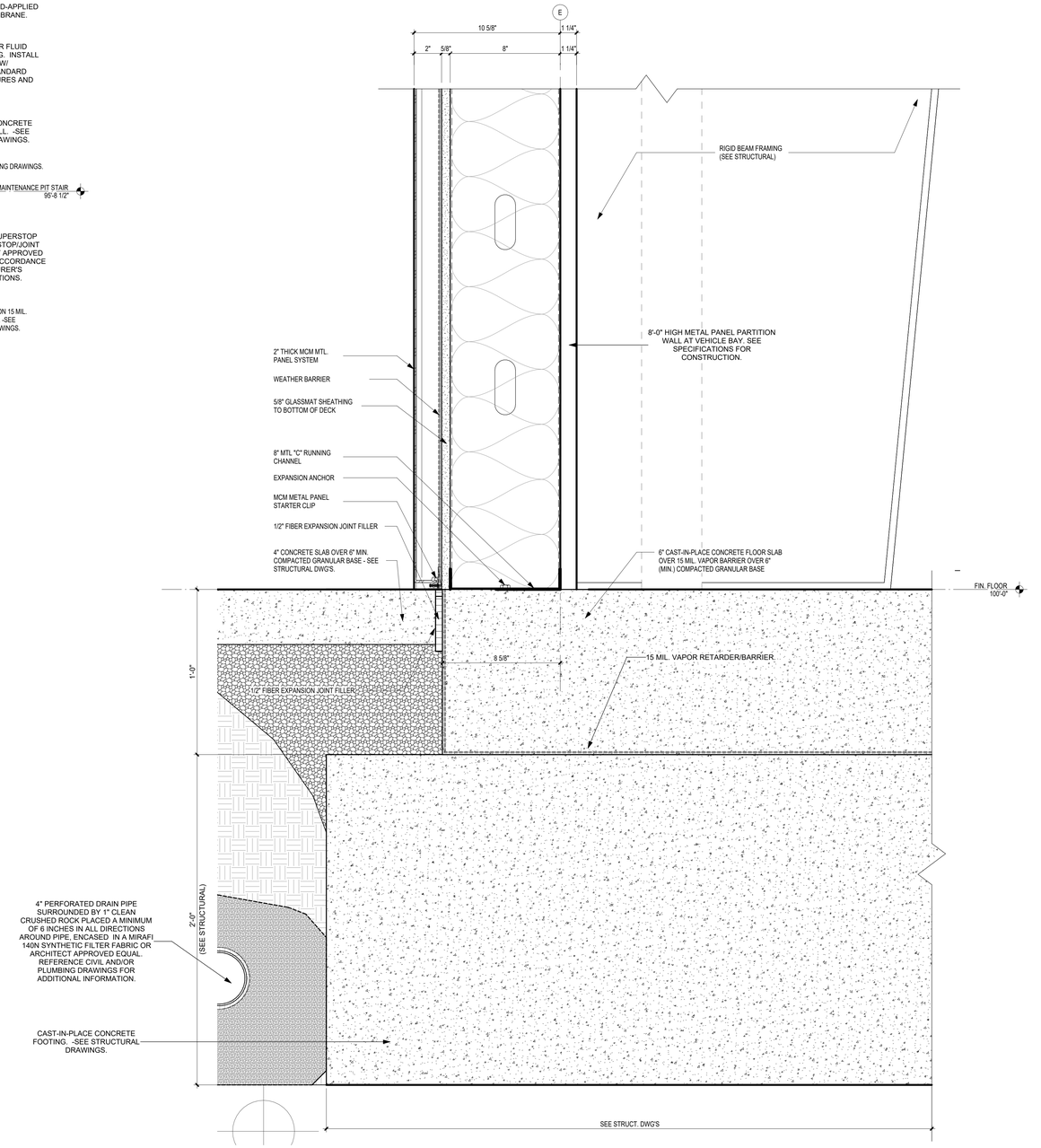


B1 MAINTENANCE PIT
1 1/2" = 1'-0"



A1 TRENCH DRAIN DETAIL
3" = 1'-0"



A4 SECTION DETAIL @ SERVICE BAYS
3" = 1'-0"

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360/340 ECOLOGY DRIVE

No.	Date	Revision

DETAILS

Project No. 23121

Sheet No. A255

Date 09/16/2025

9/13/2025 7:33:53 PM
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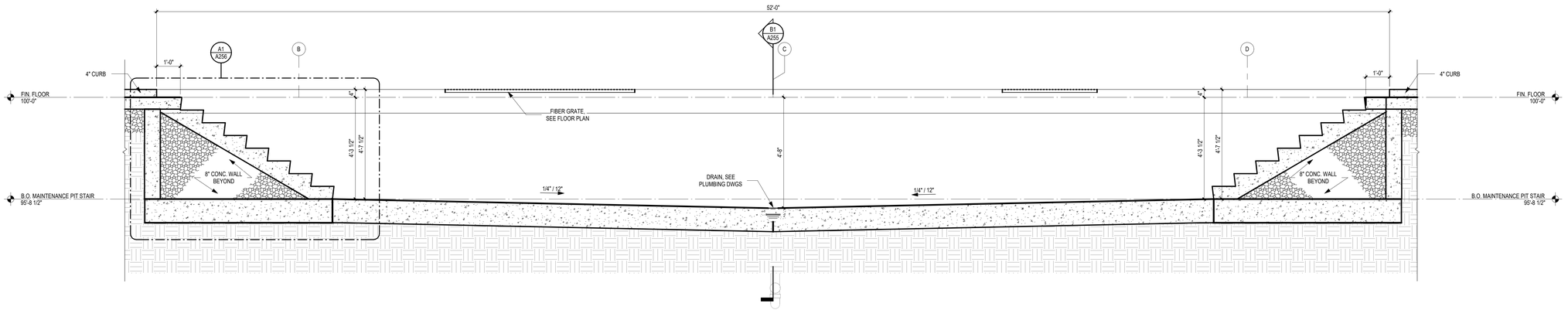
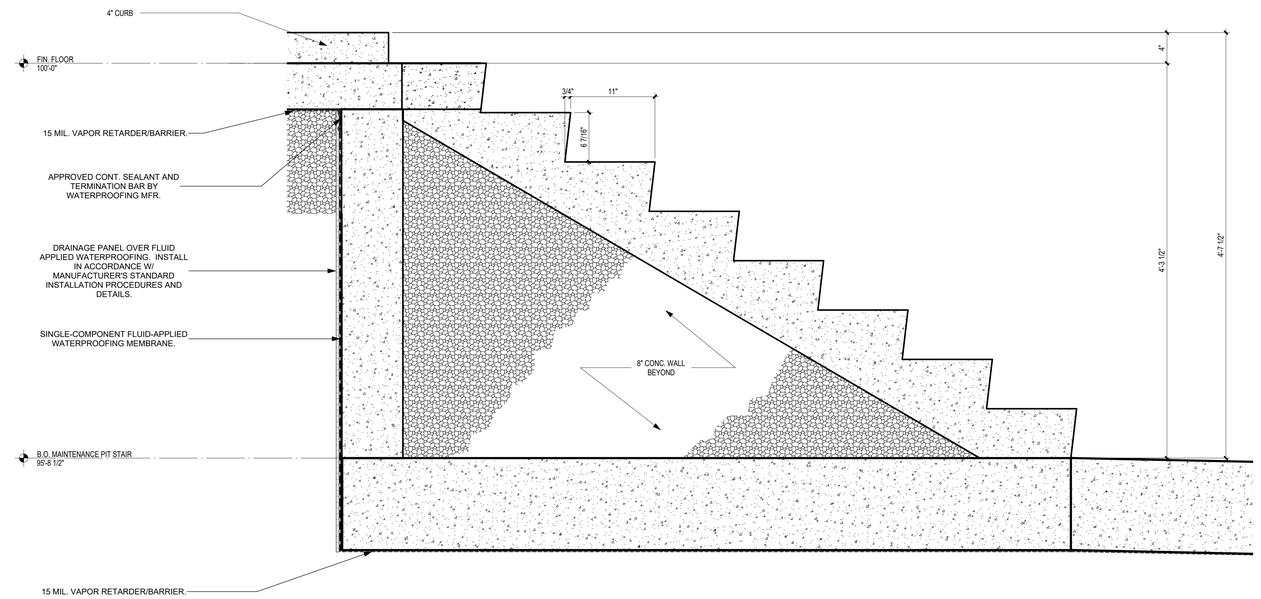


D1 OIL PIT - SECTION EAST TO WEST
1/2" = 1'-0"



A1 OIL PIT - ENLARGED SECTION @ STAIR
1 1/2" = 1'-0"

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No.	Date	Revision

OIL PIT DETAILS

Project No.
23121

Sheet No.
A256

Date
09/16/2025

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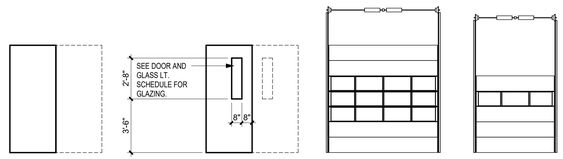


F

FLUSH S.C. WD. OR H.M. DOOR. -SEE DOOR SCHEDULE.

N-1

FLUSH S.C. WD. OR H.M. DOOR W/ GL. LT. - SEE DOOR SCHEDULE.

OH 1

OVERHEAD SECTIONAL DOORS 3 ROW LITES

OH 2

OVERHEAD SECTIONAL DOORS 1 ROW LITES

NOTE:

1. SOME DOOR TYPES MAY NOT BE USED ON THIS PARTICULAR PROJECT.
2. DOORS TO BE 1 3/4" THK. UNLESS OTHERWISE NOTED ON DOOR. SCHEDULE.
3. REFER TO DOOR SCHEDULE FOR GLASS TYPE AND THICKNESS.

E1 DOOR TYPES ELEVATIONS

1/4" = 1'-0"

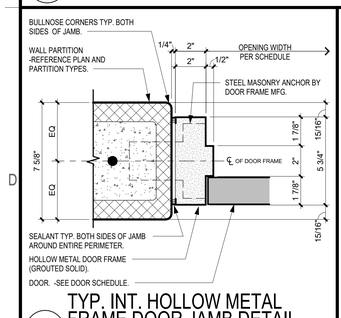
08.10.00.01 DOOR TYPES ELEVATION

GLAZING LITE SCHEDULE

GLAZING TYPE	DESCRIPTION
-NOTE:	NOT ALL GLASS USED IN PROJECT. REFER TO DOOR SCHEDULE & WINDOW FRAME TYPES
G1	1/4" CLEAR GLAZING
G2	1/4" TEMPERED CLEAR GLAZING
G3	1/2" TEMPERED CLEAR GLAZING
G4	3/16" PREMIUM GRADE FIRE RATED GLASS CERAMIC SAFETY GLAZING
G5	1" INSULATED GLAZING
G6	1" TEMPERED INSULATED GLAZING
G7	1" INSULATED SPANDREL GLAZING
G8	1" INSULATED TEMPERED SPANDREL GLAZING

DOOR SCHEDULE

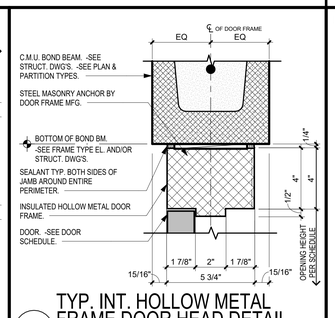
MARK	PAIR	WIDTH	HEIGHT	THICK	FRAME PROPERTIES						DOOR PROPERTIES					HARDWARE GROUP	COMMENTS
					FRAME TYPE	FRAME MATERIAL	FRAME FINISH	SIDELIGHT GLAZING	HEAD	JAMB	TYPE	DOOR MATERIAL	DOOR FINISH	DOOR GLAZING	Door:Fire Rating		
100		3'-0"	7'-0"	1 3/4"	F01-M	HM	-	-	C2/A601	B2/A601	-F-	HM	_PAINT_CHARCOAL	-	-	M 1.0	
100.1		10'-0"	10'-0"	2"		STL	-	-	BS/A601	A3/A601		MTL	PREFIN	G6	-	M 7.0	
101		3'-0"	7'-0"	1 3/4"	F01	HM	-	-	C1/A601	B2/A601	-F-	HM	-	-	-	M 2.0	
102		3'-0"	7'-0"	1 3/4"	F01	HM	-	-	C1/A601	B2/A601	-F-	HM	-	-	-	M 3.0	
103		3'-0"	7'-0"	1 3/4"	F01	HM	-	-	C1/A601	B2/A601	-N-1-	HM	-	G6	-	M 5.0	
104		3'-0"	7'-0"	1 3/4"	F01	HM	-	-	C1/A601	B2/A601	-F-	HM	-	-	-	M 4.0	
105		3'-0"	7'-0"	1 3/4"	F01	HM	-	-	C1/A601	B2/A601	-F-	HM	-	-	-	M 6.0	
106		3'-0"	7'-0"	1 3/4"	F01	HM	-	-	C1/A601	B2/A601	-F-	HM	-	-	-	M 6.0	
107.1		14'-0"	14'-0"	2"		STL	-	-	C4/A601	A3/A601		MTL	PREFIN	G6	-	M 7.0	
107.2		14'-0"	14'-0"	2"		STL	-	-	C4/A601	A3/A601		MTL	PREFIN	G6	-	M 7.0	
107.3		14'-0"	14'-0"	2"		STL	-	-	C4/A601	A3/A601		MTL	PREFIN	G6	-	M 7.0	
107.4		14'-0"	14'-0"	2"		STL	-	-	C4/A601	A3/A601		MTL	PREFIN	G6	-	M 7.0	
107.5		14'-0"	14'-0"	2"		STL	-	-	C4/A601	A3/A601		MTL	PREFIN	G6	-	M 7.0	
107.6		14'-0"	14'-0"	2"		STL	-	-	C4/A601	A3/A601		MTL	PREFIN	G6	-	M 7.0	
107.7		14'-0"	14'-0"	2"		STL	-	-	C4/A601	A3/A601		MTL	PREFIN	G6	-	M 7.0	
107.8		14'-0"	14'-0"	2"		STL	-	-	C4/A601	A3/A601		MTL	PREFIN	G6	-	M 7.0	
107A		3'-0"	7'-0"	1 3/4"	F01-M	HM	-	-	C2/A601	B2/A601	-F-	HM	_PAINT_CHARCOAL	-	-	M 1.0	
107B		3'-0"	7'-0"	1 3/4"	F01-M	HM	-	-	C2/A601	B2/A601	-F-	HM	_PAINT_CHARCOAL	-	-	M 1.0	
107F		3'-0"	7'-0"	1 3/4"	F01-M	HM	-	-	C2/A601	B2/A601	-F-	HM	_PAINT_CHARCOAL	-	-	M 1.0	



D1 TYP. INT. HOLLOW METAL FRAME DOOR JAMB DETAIL

3" = 1'-0"

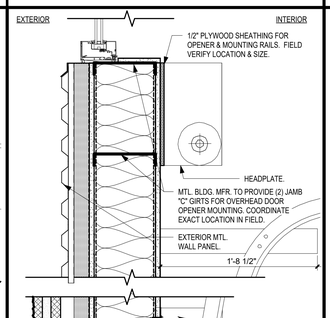
08.11.13.03_LG HM DOOR JAMB DETAIL_CMU



D2 TYP. INT. HOLLOW METAL FRAME DOOR HEAD DETAIL

3" = 1'-0"

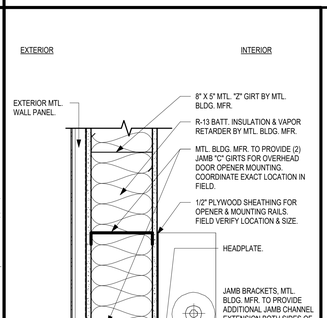
08.11.13.03A_LG HM DOOR HEAD DETAIL_CMU



D3 SECTIONAL OVERHEAD DOOR HEAD & TRACK DETAIL

1 1/2" = 1'-0"

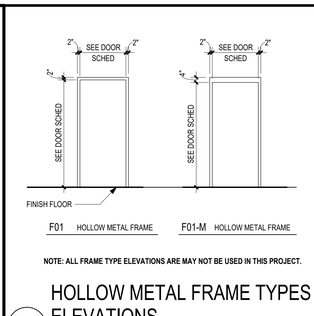
08.36 13. 01 OH DOOR HEAD DET.



D4 SECTIONAL OVERHEAD DOOR HEAD & TRACK DETAIL

1 1/2" = 1'-0"

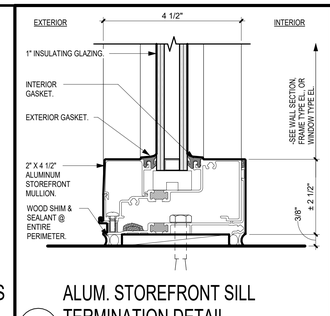
08.36 13. 02 OH1 DOOR HEAD DET.



NOTE: ALL FRAME TYPE ELEVATIONS ARE MAY NOT BE USED IN THIS PROJECT.

D5 HOLLOW METAL FRAME TYPES ELEVATIONS

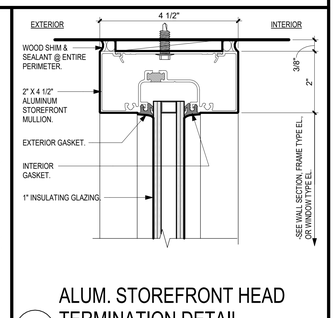
1/4" = 1'-0"



D6 ALUM. STOREFRONT SILL TERMINATION DETAIL

HALF SCALE

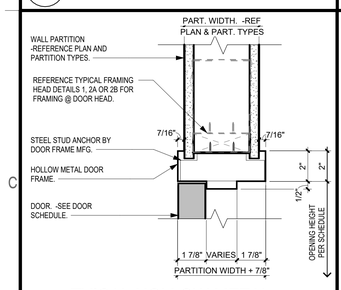
08.43.13.10 SILL TERM



D7 ALUM. STOREFRONT HEAD TERMINATION DETAIL

6" = 1'-0"

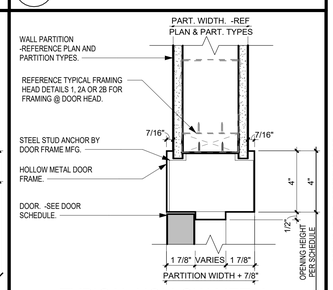
08.43.13.08 HEAD TERM



C1 TYICAL HOLLOW METAL FRAME DOOR HEAD DETAIL

3" = 1'-0"

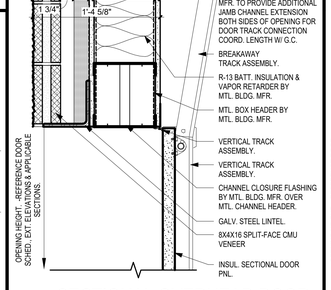
08.11.13.01_LG HM DOOR HEAD DETAIL



C2 TYPICAL HOLLOW METAL FRAME DOOR HEAD DETAIL

3" = 1'-0"

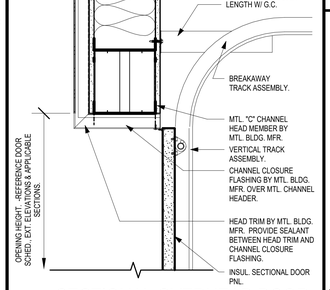
08.11.13.02_LG HM DOOR HEAD DETAIL



C3 SECTIONAL OVERHEAD DOOR HEAD & TRACK DETAIL

1 1/2" = 1'-0"

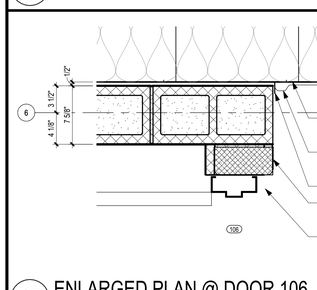
08.36 13. 01 OH DOOR HEAD DET.



C4 SECTIONAL OVERHEAD DOOR HEAD & TRACK DETAIL

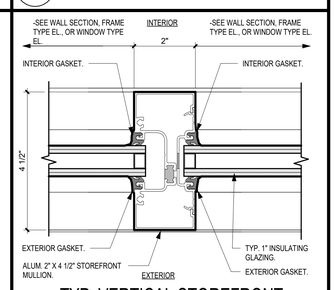
1 1/2" = 1'-0"

08.36 13. 02 OH1 DOOR HEAD DET.



C5 ENLARGED PLAN @ DOOR 106

1 1/2" = 1'-0"



C7 TYP. VERTICAL STOREFRONT MULLION DETAIL

HALF SCALE

08.43.13.03 TYP VERT STOREFRONT MULLION

B1 TYPICAL HOLLOW METAL FRAME GLAZED HEAD

3" = 1'-0"

08.11.13.01_LG HM GLAZED HEAD DETAIL

B2 TYPICAL HOLLOW METAL FRAME DOOR JAMB DETAIL

3" = 1'-0"

08.11.13.01_LG HM DOOR JAMB DETAIL

B3 ALUM. STOREFRONT JAMB DET. @ TERMINATING WALL COND.

HALF SCALE

08.43.13.08 JAMB TERM

B4 OVERHEAD DOOR SILL DETAIL

6" = 1'-0"

A1 TYICAL HOLLOW METAL FRAME GLAZED JAMB DETAIL

3" = 1'-0"

08.11.13.01_LG HM GLAZED JAMB DETAIL

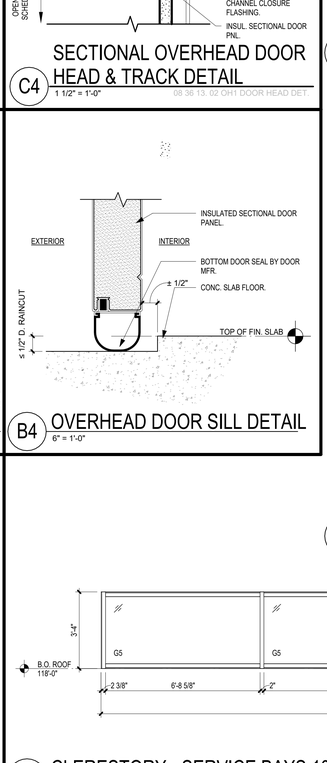
A2 TYPICAL HOLLOW METAL FRAME GLAZED SILL DETAIL

3" = 1'-0"

08.11.13.01_LG HM SILL GLAZED DETAIL

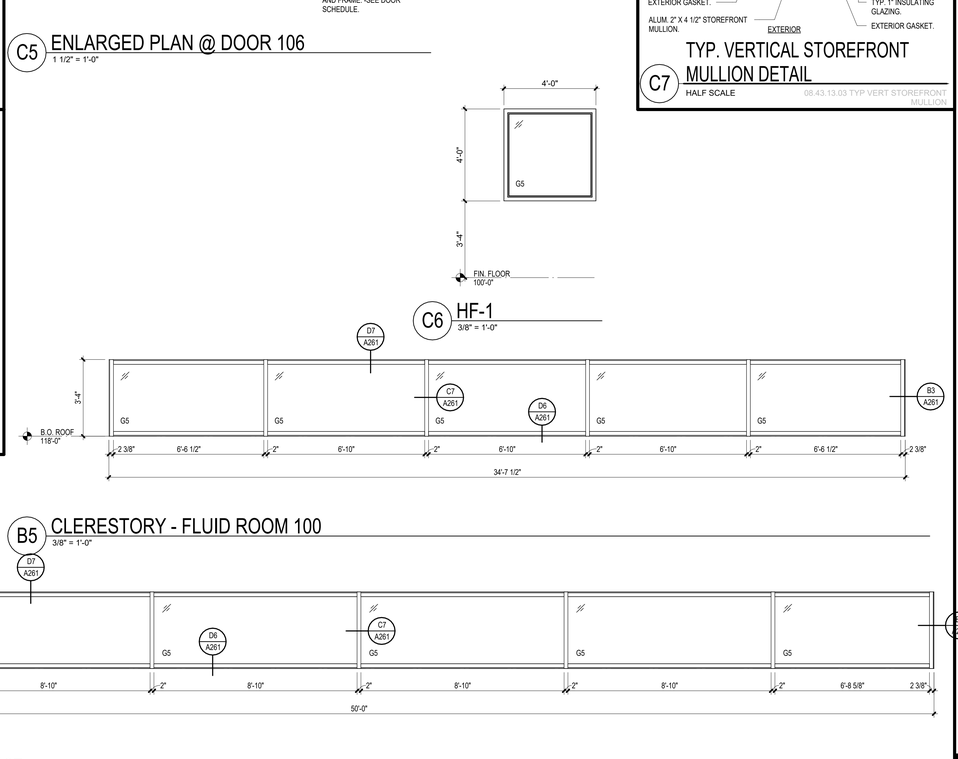
A3 OVERHEAD COLING DOOR JAMB DETAIL

3" = 1'-0"



C6 HF-1

3/8" = 1'-0"



B5 CLERESTORY - FLUID ROOM 100

3/8" = 1'-0"

A4 CLERESTORY - SERVICE BAYS 107

3/8" = 1'-0"

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380/340 ECOLOGY DRIVE
ST. PETERS, MO 63376

No.	Date	Revision

DOOR SCHEDULE & DETAILS

Project No. 23121

Sheet No. A261

Date 09/16/2025

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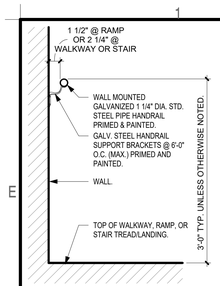
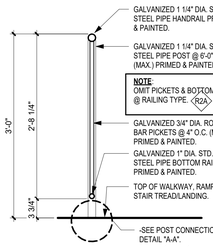
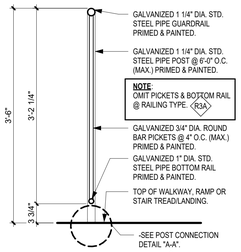


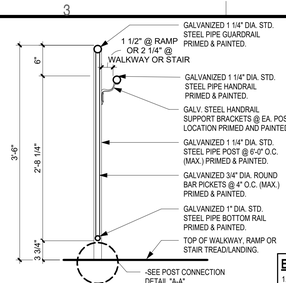
RAILING TYPE R1



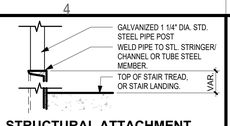
RAILING TYPE R2 R2A



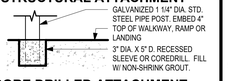
RAILING TYPE R3



RAILING TYPE R4



STRUCTURAL ATTACHMENT



CORE DRILLED ATTACHMENT

POST CONNECTION DET. "A-A"

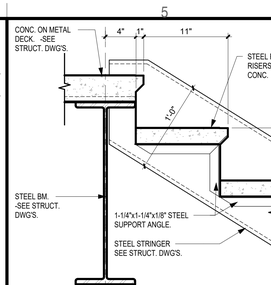
N.T.S.

EXTERIOR/INTERIOR STEEL RAILING TYPE NOTES:

1. NOT ALL RAILING TYPES MAY BE USED ON THIS PROJECT. SEE EXTERIOR ELEVATIONS, STAIR SECTIONS AND FLOOR PLANS FOR LOCATIONS.
2. ALL STEEL PIPE AND CLOSURES SHALL BE PRIMED AND PAINTED GALV. STEEL.
3. GRIND ALL WELDS SMOOTH PRIOR TO FINISHING.
4. PROVIDE CLOSURES AT ALL EXPOSED ENDS.

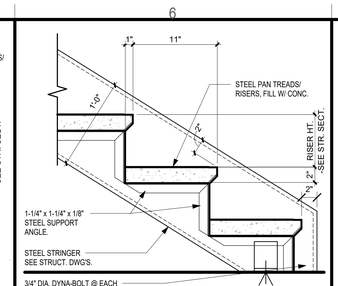
E1 TYPICAL PIPE RAILING TYPES DETAILS
1" = 1'-0"

05.51.00.01_TYP. PIPE RAILING TYPES DETAILS .4WX1!!



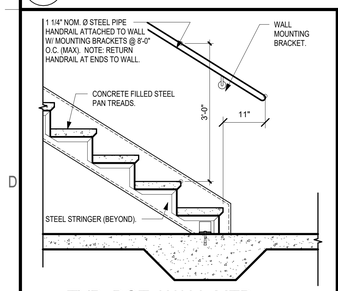
E5 STAIR NOSING TREAD & RISER DETAIL @ LANDING
1 1/2" = 1'-0"

05.51.00.02 STAIR DETAIL



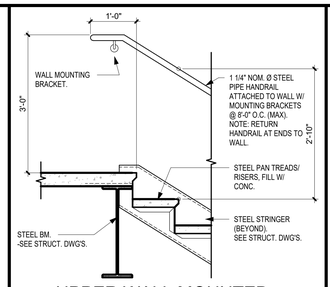
E6 STAIR NOSING DETAIL @ BOTTOM TREAD/RISER
1 1/2" = 1'-0"

05.51.00.01 STAIR DETAIL



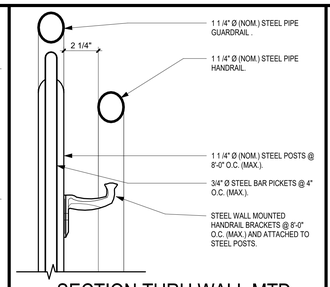
D1 TYP. BOT. WALL MTD. HANDRAIL EXTEN. AT STAIR
3/4" = 1'-0"

05.51.00.03A BOT WALL MTD HR EXTEN

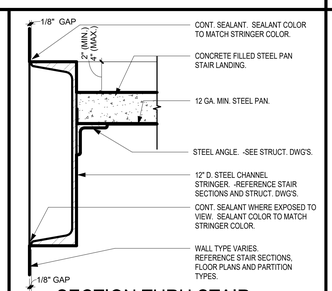


D2 UPPER WALL MOUNTED HANDRAIL EXTENSION DET.
3/4" = 1'-0"

05.51.00.05 UPPER WALL MTD EXTEN

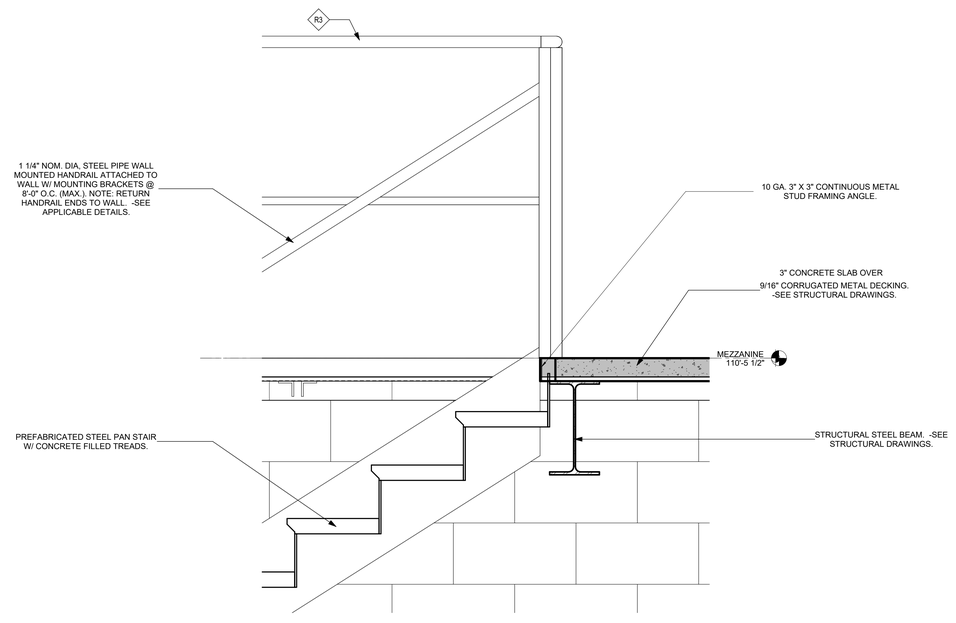


D3 SECTION THRU WALL MTD. HANDRAIL @ MTL STUD PART.
3" = 1'-0"

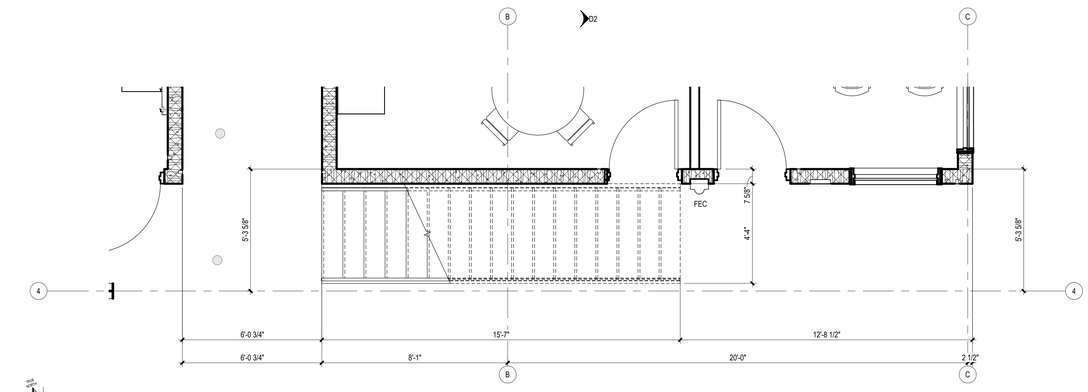


D4 SECTION THRU STAIR STRINGER AT LANDING
3" = 1'-0"

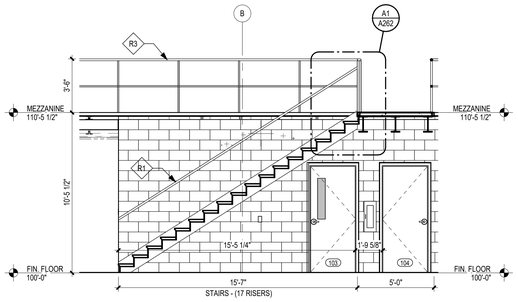
05.51.00.07 STAIR LAND DET



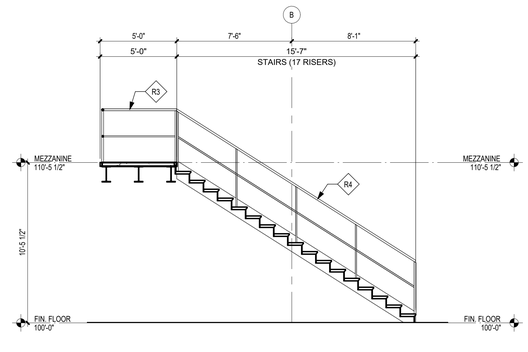
A1 ENLARGED DETAIL @ T.O. STAIR
1 1/2" = 1'-0"



B4 ENALRGED PLAN @ STAIR TO MEZZANINE
3/8" = 1'-0"



A4 STAIR SECTION LOOKING NORTH
1/4" = 1'-0"



A6 STAIR SECTION LOOKING SOUTH
1/4" = 1'-0"

SCALE: 3" = 1'-0" 1' 0 6" 3"
SCALE: 1 1/2" = 1'-0" 2' 0 6" 3'
SCALE: 1" = 1'-0" 2' 0 6" 3'
SCALE: 3/4" = 1'-0" 2' 0 8" 4'
SCALE: 1/2" = 1'-0" 4' 0 2' 1'
SCALE: 1/2" = 1'-0" 2 0 1
SCALE: 3/8" = 1'-0" 4' 0 2' 1'
SCALE: 1/4" = 1'-0" 8' 0 4' 2'
SCALE: 1/8" = 1'-0" 16' 0 8' 4'
SCALE: 3/32" = 1'-0" 24' 0 16' 8'
SCALE: 1/16" = 1'-0" 32' 0 16' 8'

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No.	Revision	Date

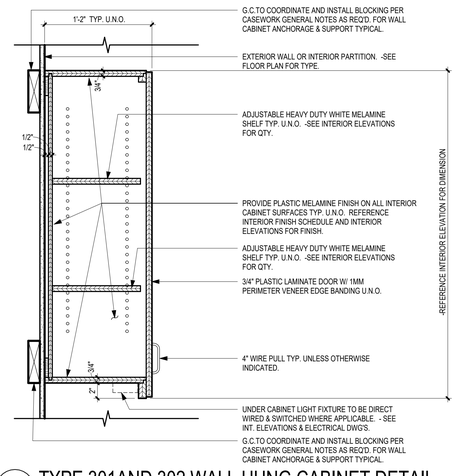
STAIR PLAN/DETAILS

Project No. 23121

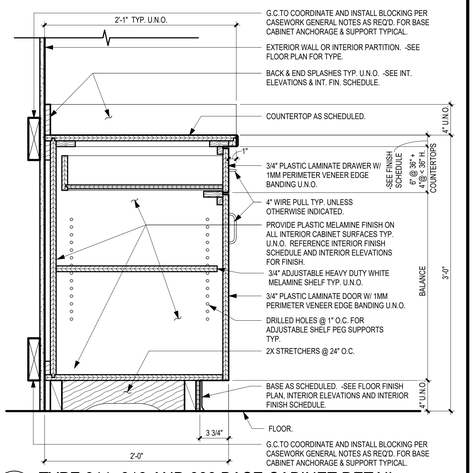
Sheet No. A262

Date 09/16/2025

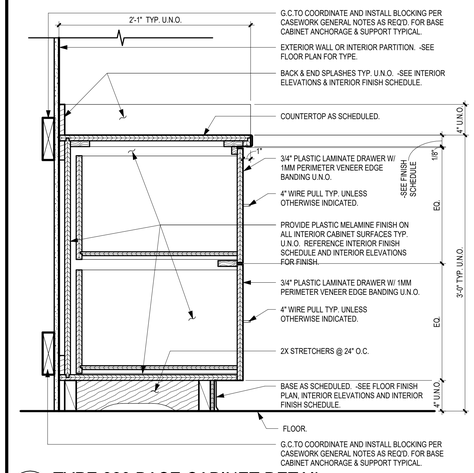
SEE A002 FOR GENERAL NOTES



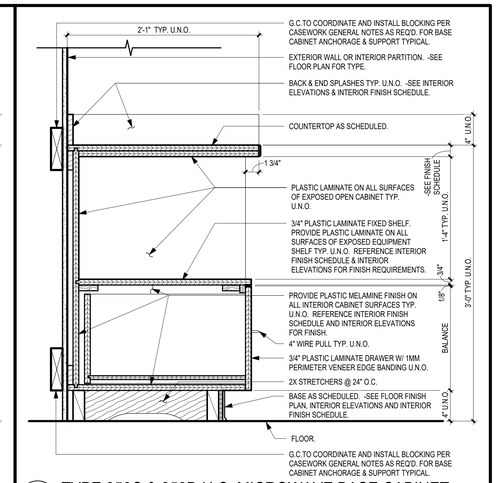
D1 TYPE 301AND 302 WALL HUNG CABINET DETAIL
1 1/2" = 1'-0"
301 & 302 WALL CABINET DETAIL_1.5W X 1.5H



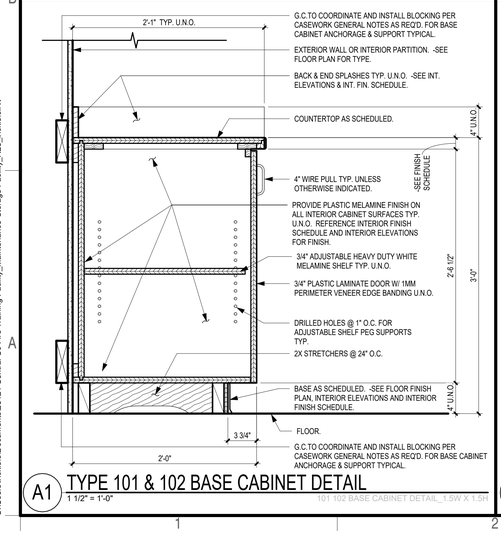
B1 TYPE 211, 212 AND 222 BASE CABINET DETAIL
1 1/2" = 1'-0"
211 212 222 BASE CABINET DETAIL_1.5W X 1.5H



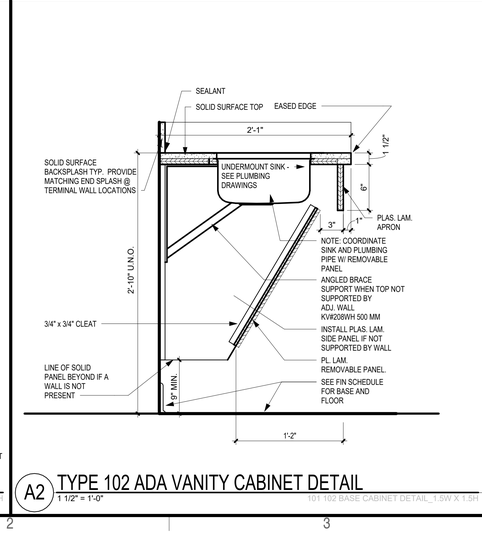
B2 TYPE 223 BASE CABINET DETAIL
1 1/2" = 1'-0"
223 BASE CABINET DETAIL_1.5W X 1.5H



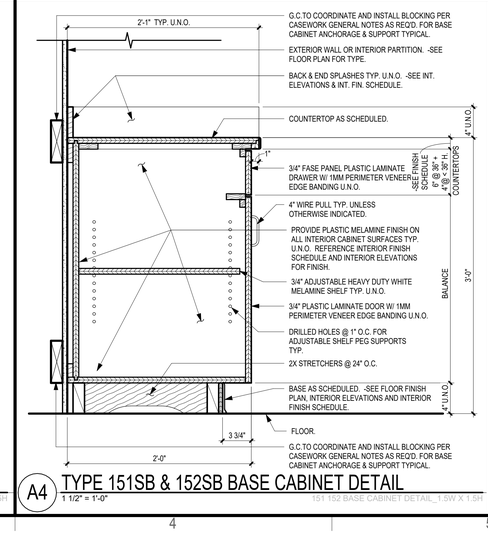
B4 TYPE 252C & 252D U.C. MICROWAVE BASE CABINET DET.
1 1/2" = 1'-0"
252C & 252D U.C. MICROWAVE BASE CABINET DET_1.5W X 1.5H



A1 TYPE 101 & 102 BASE CABINET DETAIL
1 1/2" = 1'-0"
101 102 BASE CABINET DETAIL_1.5W X 1.5H



A2 TYPE 102 ADA VANITY CABINET DETAIL
1 1/2" = 1'-0"
101 102 BASE CABINET DETAIL_1.5W X 1.5H



A4 TYPE 151SB & 152SB BASE CABINET DETAIL
1 1/2" = 1'-0"
151 152 BASE CABINET DETAIL_1.5W X 1.5H

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No.	Date	Revision

CASEWORK DETAILS

Project No.
23121

Sheet No.
A263

Date
09/16/2025

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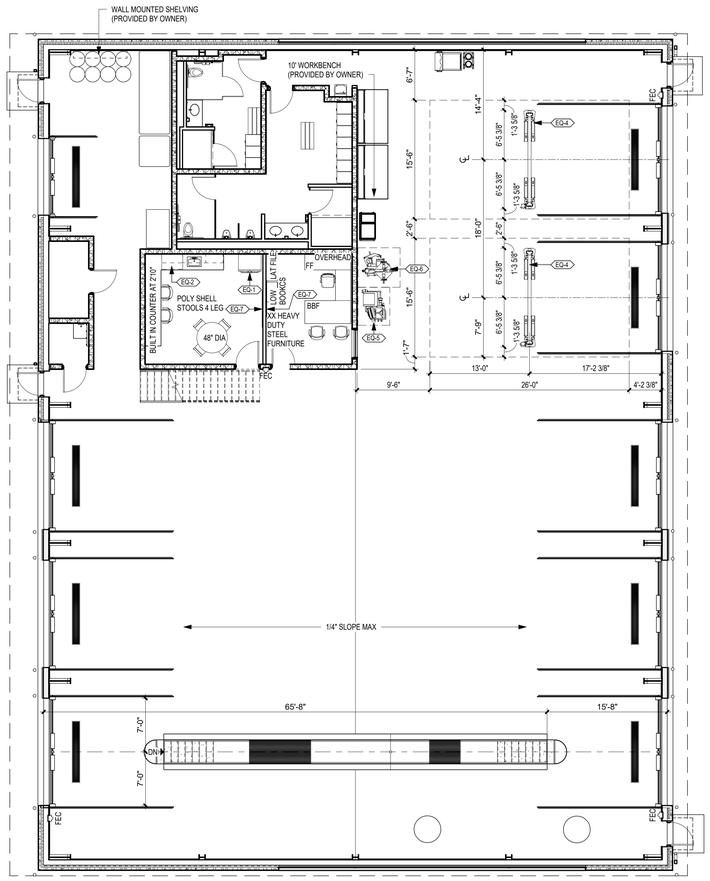
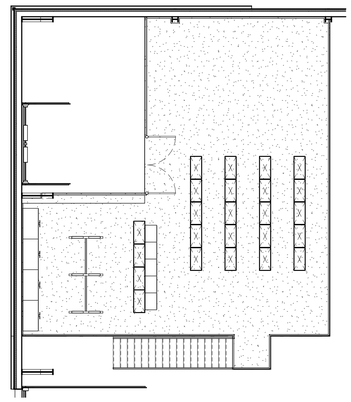
EQUIPMENT LEGEND

TAG	QTY	EQUIPMENT	O/C
EQ-1	1	Epicure 36" French Door Freestanding Cabinet-Depth Bottom Freezer Refrigerator, in Stainless Steel, with Chrome Trim	OWNER SUPPLIED / CONSTRCTOR INSTALL
EQ-2	1	Preference 24" Microwave Oven in Titanium Silver	OWNER SUPPLIED / CONSTRCTOR INSTALL
EQ-4	2	HUNTER ENGINEERING COMPANY - SPO12 WIDE 2-POST LIFT	OWNER SUPPLIED / CONSTRCTOR INSTALL
EQ-5	1	HUNTER ENGINEERING COMPANY - SMARTWEIGHT HN	OWNER SUPPLIED / CONSTRCTOR INSTALL
EQ-6	1	HUNTER ENGINEERING COMPANY - TCX SWING ARM TIRE CHANGER	OWNER SUPPLIED / CONSTRCTOR INSTALL
EQ-7	2	65" TV/MONITOR WALL HUNG	OWNER SUPPLIED / CONSTRCTOR INSTALL



A1 EQUIPMENT PLAN
1/8" = 1'-0"



B3 EQUIPMENT PLAN - MEZZANINE
1/8" = 1'-0"

OIL PIT NOTES
Fire Trucks and Aerial Ladder Trucks

Width 4 to 5 feet — Wide enough to allow safe movement on both sides of technician.
Length 40 to 55 feet — Should accommodate entire truck chassis; aerials may require longer.
Depth 6 to 7 feet — Allows standing clearance for most personnel with overhead clearance.

□ Vehicle-Specific Factors:
Aerial ladder trucks can be 45–55 feet long.
Turning radius and approach angle must be factored to allow safe entrance and exit over the pit.
Consider using drive-over steel grates when the pit is not in use.

□ Ventilation (per IMC & IFC):
Mechanical exhaust may be required to remove fuel/oil vapors.
Ventilation outlets must be low (near the bottom of the pit) due to heavier-than-air vapors.

□ Lighting and Access:
Use explosion-proof LED fixtures (per NEC Class I, Division 2).
Include non-slip steps or fixed ladders at both ends.

□ Drainage and Spill Control:
Oil pits must have drainage to oil-water separators.
Should be sealed to prevent leaks into the ground or stormwater.

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No.	Date	Revision

FURNITURE/EQUIPMENT PLAN

Project No. 23121

Sheet No. A281

Date 09/16/2025

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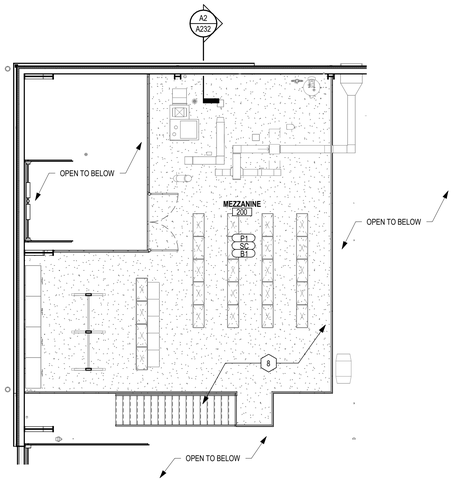
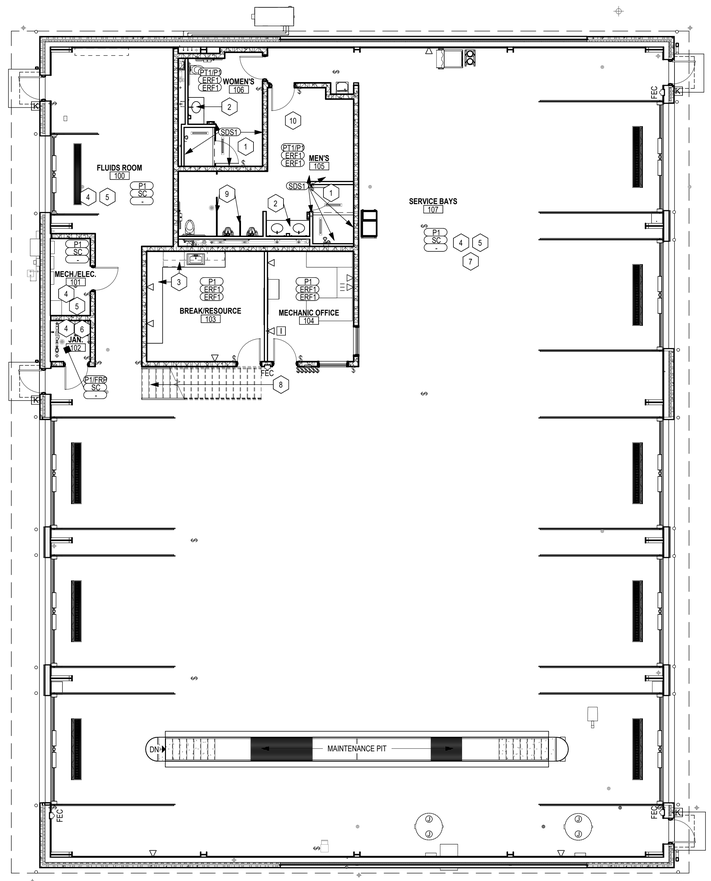


D1 FINISH FLOOR PLAN - MEZZANINE
1/8" = 1'-0"



A1 FINISH FLOOR PLAN
1/8" = 1'-0"

CENTRAL CO. MAINTENANCE BLDG - INTERIOR FINISH SCHEDULE

ACOUSTICAL CEILINGS

ACT1	ACOUSTICAL CEILING TILES - FIELD MFGR: ARMSTRONG PATTERN: DUNE SECOND LOOK II ANGLED TEGULAR MODEL: 2712 SIZE: 2'-0" X 4'-0", 15/16" GRID COLOR: WHITE CONTACT: ELIZABETH MOON 816.216.2890

BASE

B1	VINYL BASE - FIELD MFGR: TARKETT JOHNSONITE STYLE/SIZE: 4" HIGH COVE PROFILE, 1/8" GAUGE, 4'-0" LENGTHS COLOR: 63 BURNT UMBER

CERAMIC TILE

CT1	CERAMIC WALL TILE - BREAKROOM MFGR: DAL TILE PATTERN: LINEAR GLAZED CERAMIC WALL SUBWAY TILE COLOR: 0780 MATTE CHALKBOARD, SIZE: 4" X 16" TILE INSTALL METHOD: STACK BOND. USE SCHLUTER SCHIENE TRIM ALL OUTSIDE EXPOSED EDGES, TYP. INSTALL WITH GROUT GT1 CONTACT: JOANNA WHITAKER 314.629.0125

EPOXY RESIN FLOORING

ERF1	EPOXY RESIN FLOORING & 4" INTEGRAL COVE BASE MFGR: TNEMEC OR APPROVED EQUAL STYLE: STRATASHIELD DECOFLECK W/EXTRA COAT SEALER, PRIMER/BROADCAST 237 POWER TREAD, INTERMEDIATE 224 DECO FLECK, GROUT COAT 224 DECO FLECK , FINISH COAT 248 EVERTHANE COLOR: CUSTOM COLOR #24068 1/4" FLAKE SIZE, "BLUE GRAY" PROVIDE MOCKUP PANELS FOR COLOR & TEXTURE APPROVAL. NOTE: SHOWER FLOOR TO HAVE ADDITIONAL NON SKID ADDITIVE (FINE) CONTACT: MISSOURI TERRAZZO 314.361.8090

FIBERGLASS REINFORCED PANELS

FRP1	FRP PANELS - CATERING FULL HT., JANITOR & LAUNDRY MFGR: ALTRO, STYLE: PURAGUARD, PEBBLE EMBOSSED TEXTURE, COLOR: SEA SALT #W141/400, SIZE: CLASS A, SIZE: 4'X10' SHEET, GAUGE: 0.09" INCLUDE ALL TRIM CAPS & CORNER GUARDS.

GROUT

GT1	WALL GROUT - TLT RM WALLS MFGR: MAPEI STYLE: KERAPOXY CQ COLOR: 77 FROST NOTE: KNIFE GROUT JOINT

PAINT

P1	PAINT – FIELD MFGR: SHERWIN WILLIAMS SERIES: EPOXY, FINISH: SEMI GLOSS COLOR: SW9165 GOSSIMER VEIL NOTE ALL WALLS WITH EXPOSED CMU BLOCK TO HAVE BLOCK FILLER & PRIMED PRIOR TO PAINTING
P2	PAINT – DOOR FRAMES/DOORS INDICATED AS "PAINT" ON DOOR SCHEDULE, EXPOSED METAL STAIRWELL STRINGERS/RAILINGS/ LADDER MFGR: SHERWIN WILLIAMS SERIES: PRECATALYZED WATERBASED EPOXY SINGLE COMPONENT, FINISH: SEMI GLOSS COLOR: SW7069 IRON ORE
P3	PAINT – ENTIRE BAY AREA CEILINGS MFGR: SHERWIN WILLIAMS SERIES:DRYFALL PROINDUSTRIAL WATER BASED CATALYZED EPOXY FINISH: EGGSHELL COLOR: SW7005 PURE WHITE PRIME SURFACES PRIOR TO PAINTING
P4	PAINT – GYP BD. CEILINGS TOILET ROOMS MFGR: SHERWIN WILLIAMS FINISH: WATER BASED EPOXY, EGGSHELL COLOR: SW7005 PURE WHITE
P5	PAINT – FLOOR SAFETY STRIPES BAYS MFGR: SHERWIN WILLIAMS GENERAL POLYMERS FINISH: 4844 PACECOTE POLYASPARTIC TOPCOAT COLOR: CUSTOM MATCH TO SW6911 CONFIDENT YELLOW

INTERIOR LINER PANEL

LP1	VP-PANEL RIB WALL PANEL & LINER MFGR: BLUESCOPE BUILDINGS COLOR: COOL COTTON WHITE SIZE: 3'-0" X 8'-0"

PLASTIC LAMINATE

PL1	PLASTIC LAMINATE – VERTICAL DOORS & DRAWERS MFGR: FORMICA STYLE: #05884-58 CHESTNUT WOODLINE, MATTE TEXTURE VERTICAL GRAIN DIRECTION, TYP. INCLUDE MATCHING 1MM PVC EDGEBAND. CONTACT: ANN YOUNG 314.221.2434

PORCELAIN TILE

PT1	PORCELAIN FLOOR TILE - RESTROOM WALLS MFGR: VIRGINA TILE CAESAR STYLE: STONEWAYS, COLOR: SKY SIZE: 12X24", INSTALL STACK BOND W/KNIFE JOINTS. INCLUDE CRACK ISOLATON MEMBRANE ALL CONTROL JOINTS INSTALL WITH GROUT GT1 CONTACT: JILL PATTERSON 314-208-7962

SEALED CONCRETE

SC	SEALED CONCRETE FLOOR WITH DENSIFIERS REFER TO ARCHITECTURAL SPECIFICATIONS

SPECIALITY FINISH

SPF1	SPECIALTY FINISH - CUSTOM VINYL BLOCK WAL APPLIQUES MFGR: INFINITE OPTIKS QUALITY GLASS STYLE: CUSTOM DIGITALLY PRINTED DESIGN, MULTI COLOR SIZES VARIES SEE ELEVATIONS; MULTI-COLOR CUSTOM DESIGNS TO BE DETERMINED BY ARCHITECT. PROVIDE MOCKUP FOR APPROVAL CONTACT: KELLY FORD 314.495.5676

SOLID SURFACE

SDS1	SOLID SURFACE - COUNTERS, SHOWER WALS MFGR: WILSONART SOLID SURFACE COLOR: 9204CE MORNING ICE, GAUGE: 1/2", EASED EDGES

TRANSITIONS

TR1	TRANSITION WALL TILE CERAMIC TILE PERIMETER EDGES MFGR: SCHLUTER PATTERN: SCHIENE COLOR: SATIN ANODIZED ALUMINUM SIZES VARY, CONFIRM WITH TILE DIMENSIONS

EXPOSED VINYL FACED BATT INSULATION

EXP0	TRANSITION WALL TILE CERAMIC TILE PERIMETER EDGES MFGR: SCHLUTER PATTERN: SCHIENE COLOR: SATIN ANODIZED ALUMINUM SIZES VARY, CONFIRM WITH TILE DIMENSIONS

INTERIOR FINISH GENERAL NOTES

1. INTERIOR FINISH MATERIALS SHALL COMPLY WITH THE FLAME SPREAD & SMOKE DEVELOPMENT LIMITATION USED IN CHAPTER 8 OF THE INTERNATIONAL BUILDING CODE.
2. ALL INTERIOR WALL COVERINGS MUST COMPLY WITH THE FOLLOWING: CLASS 1, FLAME SPREAD RATING 0-25 ASTM-E-84 PER FINISH SHEET.
3. G.C. TO SUBMIT ALL FINISHES IN MATERIAL SAMPLE FORM TO DESIGNER FOR APPROVAL PRIOR TO ORDER OF MATERIALS - NO INTERNET OR COPY FORM SUBMITTALS WILL BE APPROVED.
4. ALL WALLS TO BE PAINTED P1 AND ALL INTERIOR DOOR FRAMES TO BE PAINTED P2 UNLESS NOTED OTHERWISE. REFER TO FLOOR FINISH PLAN FOR ACCENT PAINT LOCATIONS. ALL PAINTED SURFACES TO RECEIVE (1) PRIME COAT AND A MINIMUM OF (2) FINISH COATS PER PAINT COLOR. DARKER ACCENT COLORS TO RECEIVE (3-4) FINISH COATS FOR OPTIMAL COVERAGE.
5. REFER TO REFLECTED CEILING PLAN FOR CEILING SYSTEM TYPES AND SOFFIT ACCENT PAINT COLOR LOCATIONS. ALL EXPOSED FACES OF SOFFITS TO BE PAINTED INCLUDING UNDERSIDE. ALL GYP. BD. CEILINGS TO BE PAINTED P4 UNLESS NOTED OTHERWISE.
6. REFER TO FLOOR PLAN FOR ADJUSTABLE SHELVING LOCATIONS. ADJUSTABLE SHELVING SHALL BE HEAVY DUTY WHITE MELAMINE SHELVES WITH WHITE PVC EDGES MOUNTED ON WHITE HEAVY DUTY WALL MOUNTED STANDARDS WITH WHITE ADJUSTABLE HEAVY DUTY BRACKETS UNLESS NOTED OTHERWISE.
7. ALL BUILT-IN CASEWORK TO BE VERIFIED AND COORDINATED WITH OWNER. G.C. TO SUBMIT SHOP DRAWINGS TO DESIGNER FOR APPROVAL PRIOR TO ORDER OF MATERIALS.
8. ALL HARDWARE TO BE BRUSHED STAINLESS STEEL FINISH UNLESS NOTED OTHERWISE.
9. ALL FLOORING TO RUN FROM PARTITION TO PARTITION AND CENTER FLOORING IN DOOR OPENINGS AS REQUIRED, TYPICAL THROUGHOUT.
10. PROVIDE APPROPRIATE ADA COMPLIANT TRANSITION/REDUCER STRIPS TO MATCH FLOORING AT ALL FLOORING MATERIAL TRANSITIONS AS NEEDED UNLESS NOTED OTHERWISE.
11. ALL FLOORING PATTERN/GRAIN TO RUN IN THE SAME DIRECTION THROUGHOUT UNLESS NOTED OTHERWISE. SEE FINISH FLOOR PLAN.

FINISH PLAN LEGEND

SYMBOL DENOTES:

WALL FINISH → F-X*
FLOOR FINISH → F-X
BASE FINISH → F-X

FLOOR MATERIAL CHANGE

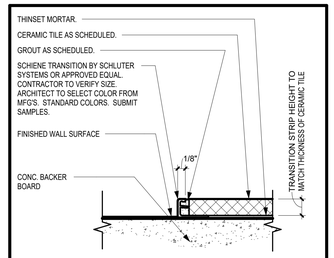
CARPET PATTERN / TILE / LVT DIRECTION

NOTE: * INDICATES THAT FINISH VARIES. REF. ELEVATIONS AND FINISH PLAN FOR ADD'L INFO

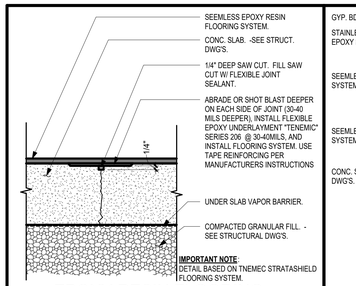
EACH ROOM SHALL HAVE A ROOM FINISH TAG. SEE FLOOR FINISH PLAN. REFER TO FINISH PLAN KEYNOTES FOR CASEWORK FINISHES AND REFLECTED CEILING PLAN FOR CEILING FINISHES.

KEYED NOTES FINISH FLOOR PLAN

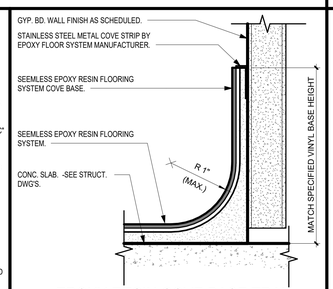
MARK	DESCRIPTION
1	LOCKER ROOM SHOWERS: FULL HEIGHT VERTICAL WALL PANELS SDS1 ALL WALLS & OUTSIDE FACE OF WING WALLS. SEAL ALL PERIMETER EDGES W/WHITE SEALANT. SHOWER FLOORS: CONTINUE ERF1 & INTEGRAL BASE INTO SHOWER AREA, ASSURE SLOPE TO DRAIN AND ERF TO HAVE ADDED NO SLIP TEXTURE IN THIS AREA. AT SHOWER ENCLOSURE: PROVIDE & INSTALL HEAVY DUTY SHOWER CURTAIN ROD, RINGS AND ANTIMICROBIAL CURTAIN .008"VINYL BOBRICK OR APPROVED EQUAL. MENS SHOWER DOOR TO MATCH TOILET PARTITIONS.
2	CUSTOM VANITIES COUNTERTOPS & BACKSPLASHES SDS1, ADA BASE CABINET PL1
3	BUILT IN BREAKROOM CABINETS PL1 WITH COUNTERTOPS & BACKSPLASHES SDS1, WALL BACKSPLASH GT1
4	ALL WALLS WITH EXPOSED CMU/CONCRETE TO HAVE BLOCK FILLER & PRIMER PRIOR TO PAINTING
5	PROVIDE SILICONE SEALANT WHERE BLOCK MEETS SEALED CONCRETE FLOOR MATCH FLOOR COLOR.
6	JANITORS: INSTALL FRP 52" OAH WAINSCOT AROUND ROOM ALL WALLS (48"H FRP INSTALL ALONG TOP OF A 4" H VINYL BASE.) USE ALL COORDINATING PVC TRIM TOP, BOTTOM, & INSIDE CORNER PIECES. CLEAR BEAD OF SEALANT ALONG ALL EDGES OF MOP SINK.
7	PAINT YELLOW SAFETY STRIPES P5 ON SEALED CONCRETE FLOOR, 4"WIDE STRIPE LOCATIONS TO BE DETERMINED BY OWNER
8	PAINT ALL EXPOSED HANDRAILS AT STAIRS AND MEZZANINE, AND ALL EXPOSED METAL AT STAIRS INCLUDING UNDERSIDE P2
9	BLACK CORE PHENOLIC TOILET PARTITION, COLOR: GRAPHITE NEBULA OR APPROVED EQUAL
10	PORCELAIN WALL TILE FULL HEIGHT WET WALLS & SIDE WALLS AT TOILET & URINALS PT1 AS INDICATED, PERIMETER EDGES SCHLUTER TRIM TR1 SEE ELEVATIONS



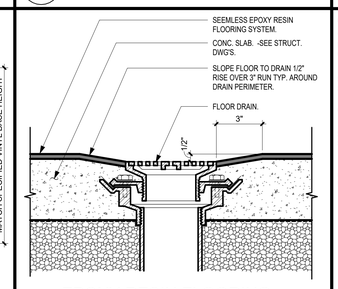
B6 CERAMIC TILE PERIMITER TRANSITION DETAIL "TR1"
FULL SCALE
09.65.13.33 FLOORING TRANSITION 07



A4 EPOXY RESIN FLOORING CONTROL JOINT DETAIL
3" = 1'-0"
09.67.29.01 FLOORING CONTROL JOINT DET



A5 EPOXY RESIN COVE BASE TRANSITION TO GYP. BD. WALL DET.
FULL SCALE
09.67.29.01 FLOORING TRANSITION 13



A6 EPOXY RESIN FLOORING FLOOR DRAIN DETAIL
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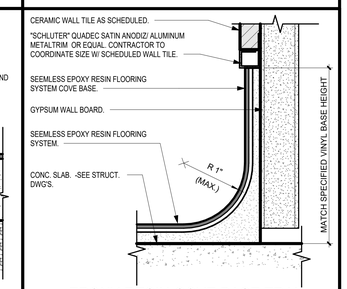
09.67.29.35 FLOOR DRAIN DET



A7 EPOXY RESIN COVE BASE TRANSITION TO CER. WALL TILE DET.
FULL SCALE
09.67.29.52 FLOORING TRANSITION 17

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360/340 ECOLOGY DRIVE
ST. PETERS, MO 63376

No.	Date	Revision

FINISH FLOOR PLAN

Project No. 23121
Sheet No. I201
Date 09/16/2025

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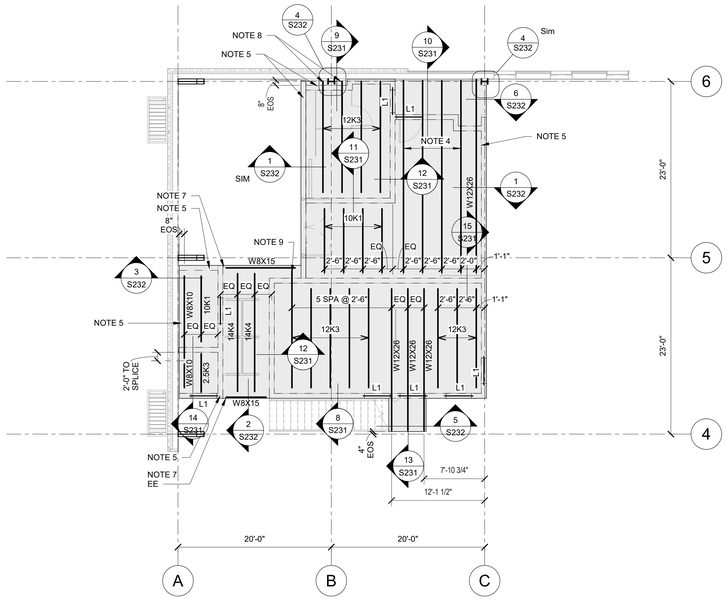
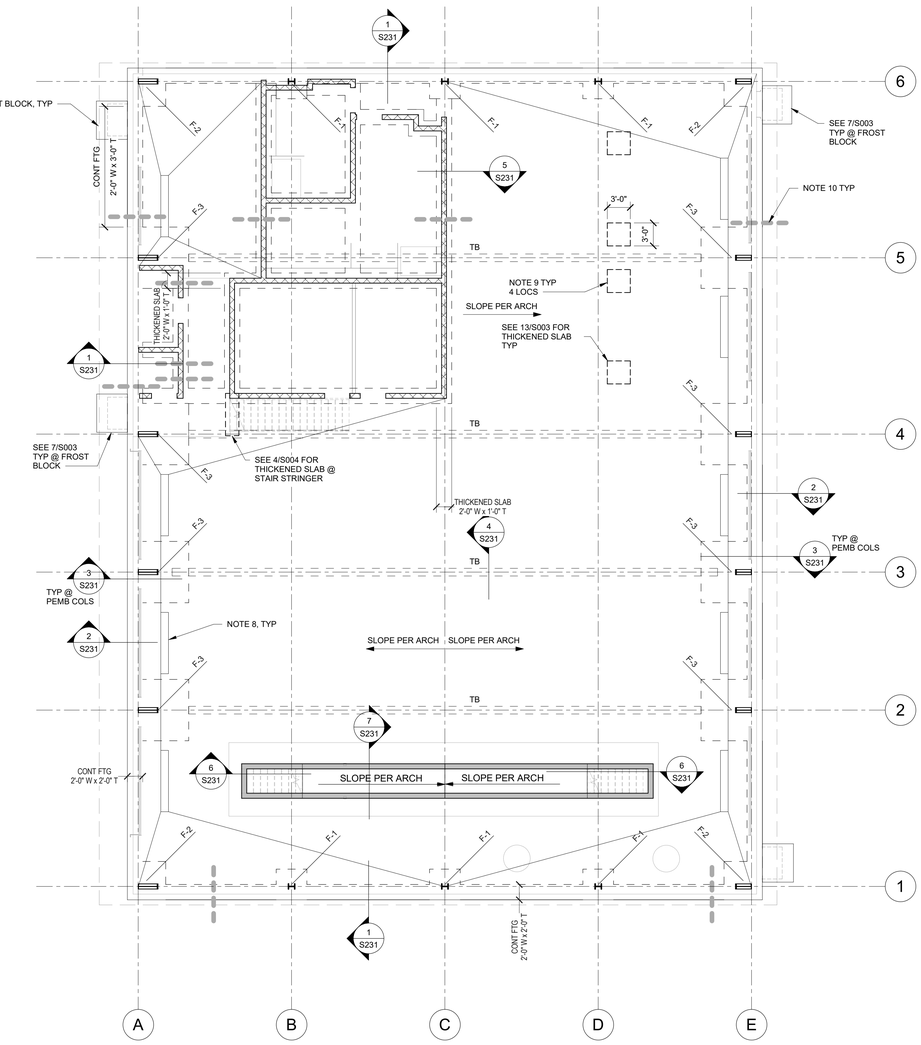


1 S221 MEZZANINE FRAMING PLAN - MAINTENANCE & STORAGE BUILDING
1/8" = 1'-0"

NOTES:

1. FINISHED FLOOR SLAB EL IS 110'-5 1/2", UNO.
2. FLOOR CONSTRUCTION TO BE 2 1/2" NORMAL WEIGHT CONCRETE SLAB ON 9/16" x 26 GA CONFORM METAL DECK (3" TOTAL THICKNESS) REINFORCED w/ 6x6-W2.9xW2.9 WWR, TYP UNO.
3. INDICATES DIRECTION OF DECK SPAN.
4. CANTILEVER JOISTS TO BE DESIGNED BY JOIST DESIGNER WITH EACH JOIST DESIGNED FOR A TOTAL SERVICE LOAD OF 455 LB/FT AND A SERVICE LIVE LOAD OF 315 LB/FT.
5. (2) #4 CONT @ 6" oc
6. FOR GENERAL NOTES & TYPICAL DETAILS SEE SHEETS S001 THRU S111.
7. SEE DEATAIL 4/S008 BEAM BEARING PARALLEL TO WALL.
8. JOIST TO HAVE TYPE S4 TOP CHORD EXTENSION.
9. JOIST TO HAVE TYPE S4 TOP CHORD EXTENSION AND EXTENSION TO BEAR ON BEAM.



2 S221 FOUNDATION PLAN - MAINTENANCE & STORAGE BUILDING
1/8" = 1'-0"

NOTES:

1. FINISHED FLOOR ELEVATION = 100'-0" (USGS 438.5'), UNO.
2. FLOOR CONSTRUCTION TO BE A 6" CONC SLAB ON GROUND REINFORCED w/ 6x6-W2.9xW2.9, OVER 4" COMPACTED GRANULAR FILL, UNO.
3. CONTRACTOR TO VERIFY ALL DIMENSIONS AND ANCHOR ROD PLACEMENT WITH PEMB MANUFACTURER SHOP DRAWING PRIOR TO CONSTRUCTION AND PLACEMENT OF ANCHOR RODS.
4. SEE ARCH DRAWINGS FOR ALL INTERIOR NON-BEARING WALL PARTITIONS, FLOOR SLOPES, SLAB STEPS, CURBS, ETC.
5. FOR GENERAL NOTES & TYPICAL DETAILS SEE SHEETS S001 THRU S111.
6. TOP OF FOOTING ELEVATION = 99'-0", TYP UNO.
7. INDICATES 8" PARTIALLY GROUTED CMU WALL WITH #5 VERTICAL REINFORCING SPACED AT 32"oc AND W1.7 (9GA) LADDER-TYPE JT @ 16"oc HORIZONTAL REINFORCING. PROVIDE HORIZONTAL BOND BEAM AT TOP OF WALL. SEE TYPICAL MASONRY DETAILS ON SHEET S008.
8. TRENCH DRAIN. SEE DETAIL 12/S003.
9. THICKENED SLAB AT LIFT POSTS. CONTRACTOR TO COORD LOC w/ LIFT PROVIDER.
10. COORDINATE UTILITY LINE w/ FOOTING. REFER TO TYPICAL DETAILS.

FOOTING SCHEDULE			
MARK	SIZE	REINFORCING	REMARKS
F-1	4'-0" x 4'-0" x 24"	(4) #5 T&B EW	
F-2	5'-0" x 5'-0" x 24"	(5) #5 T&B EW	
F-3	8'-0" x 8'-0" x 24"	(8) #5 T&B EW	

FOUNDATIONS ARE PRELIMINARY AND MUST BE FINALIZED BASED ON FINAL REACTIONS PROVIDED BY THE AWARDED PRE-ENGINEERED METAL BUILDING MANUFACTURER

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No.	Date	Revision

FDN PLAN & MEZZANINE FRAMING PLAN

Project No. 2400235
Sheet No. S221
Date 09/16/2025

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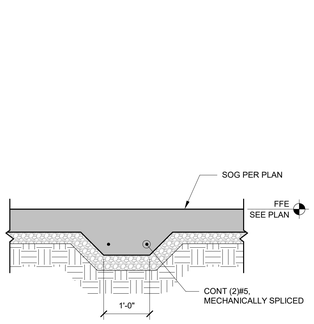
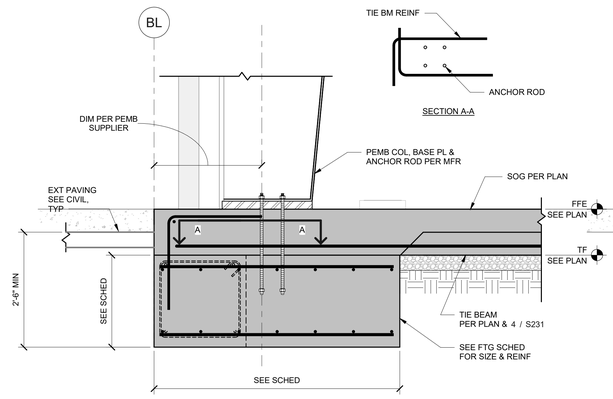


4 S231 SECTION 3/4" = 1'-0"



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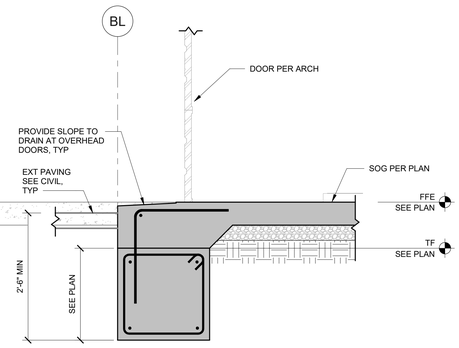

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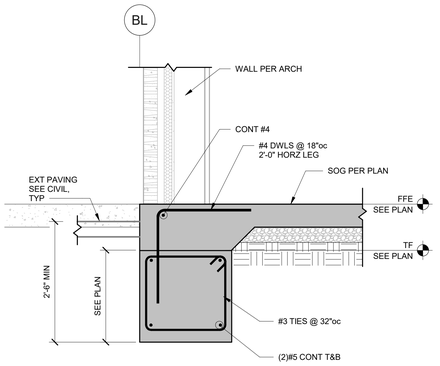
FOR BALANCE OF INFORMATION SEE SECTION 1 / S231



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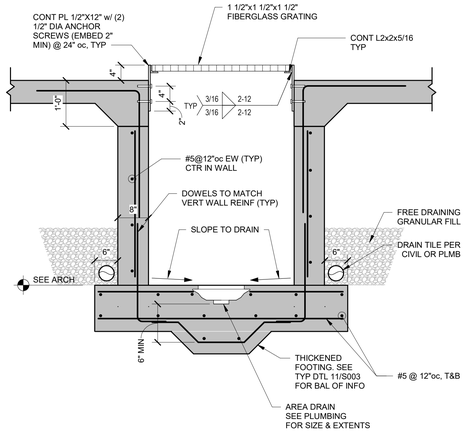

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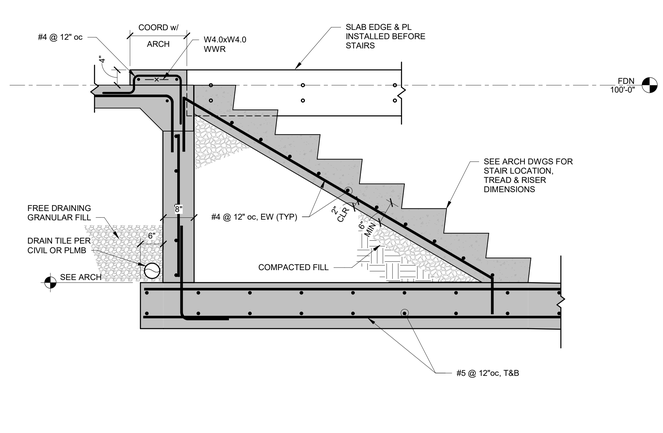

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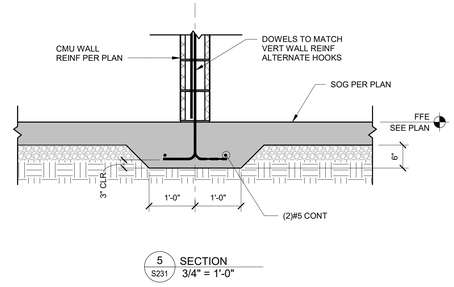

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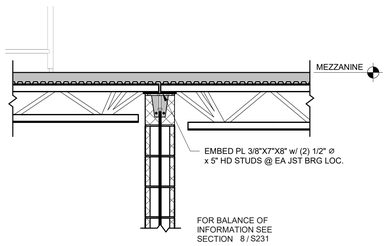

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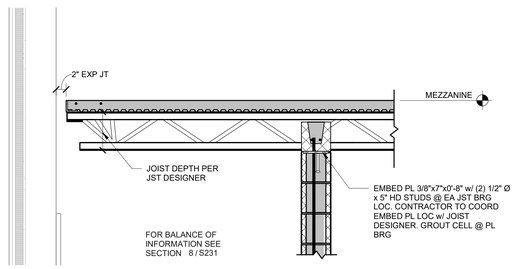

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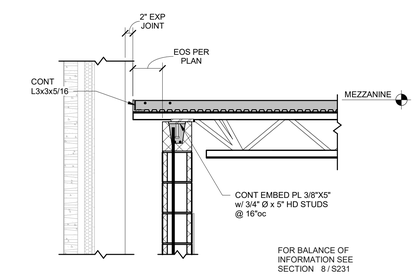

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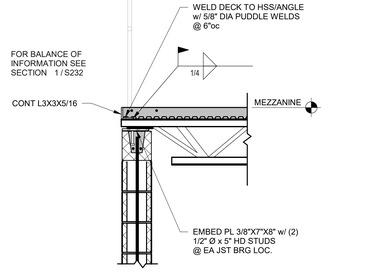

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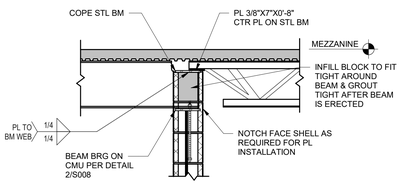

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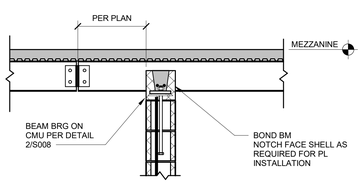

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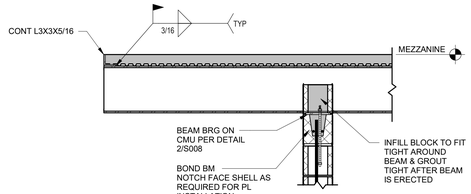

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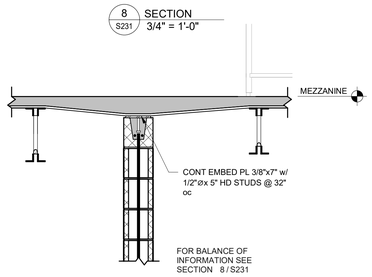

12 S231 SECTION 3/4" = 1'-0"

SCALE: 3" = 1'-0" 1" 6" 3" 0
SCALE: 1 1/2" = 1'-0" 2" 1" 6" 3" 0
SCALE: 1" = 1'-0" 2" 1" 6" 3" 0
SCALE: 3/4" = 1'-0" 2" 1" 6" 3" 0
SCALE: 1/2" = 1'-0" 4" 2" 1" 6" 0
SCALE: 3/8" = 1'-0" 6" 4" 2" 0
SCALE: 1/4" = 1'-0" 8" 4" 2" 0
SCALE: 1/8" = 1'-0" 16" 8" 4" 0
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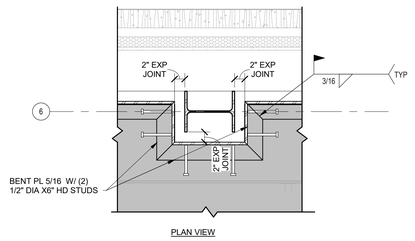
No.	Date	Revision

MAINT. & STORAGE SECTIONS & DTLS

Project No. 2400235

Sheet No. S231

Date 09/16/2025



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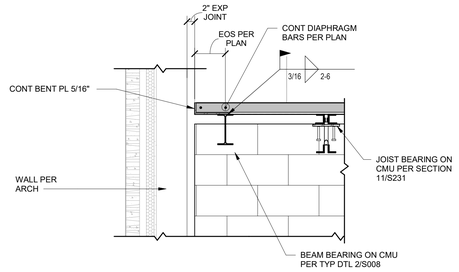
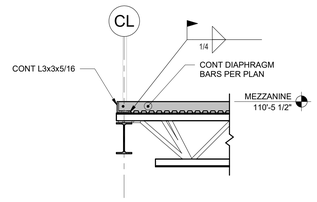


3 S232 SECTION 3/4" = 1'-0"



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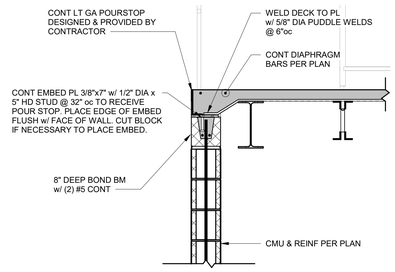

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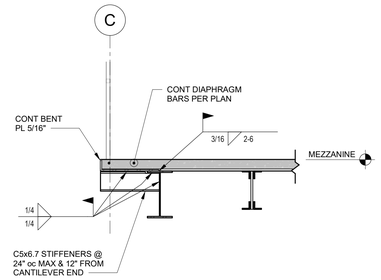
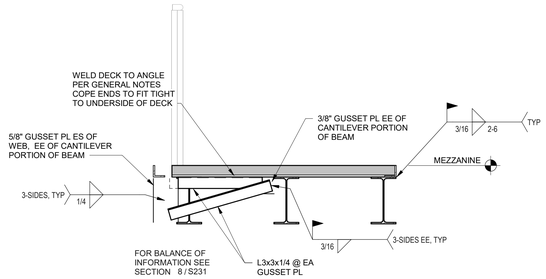


6 S232 SECTION 3/4" = 1'-0"



5 S232 SECTION 3/4" = 1'-0"

Digitally signed by Jason N Richards
Date: 2025.09.11 21:54:09-05'00'

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CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE

360/340 ECOLOGY DRIVE ST. PETERS, MO 63376

No.	Date	Revision

MAINT. & STORAGE SECTIONS & DTLS

Project No. 2400235

Sheet No. S232

Date 09/16/2025

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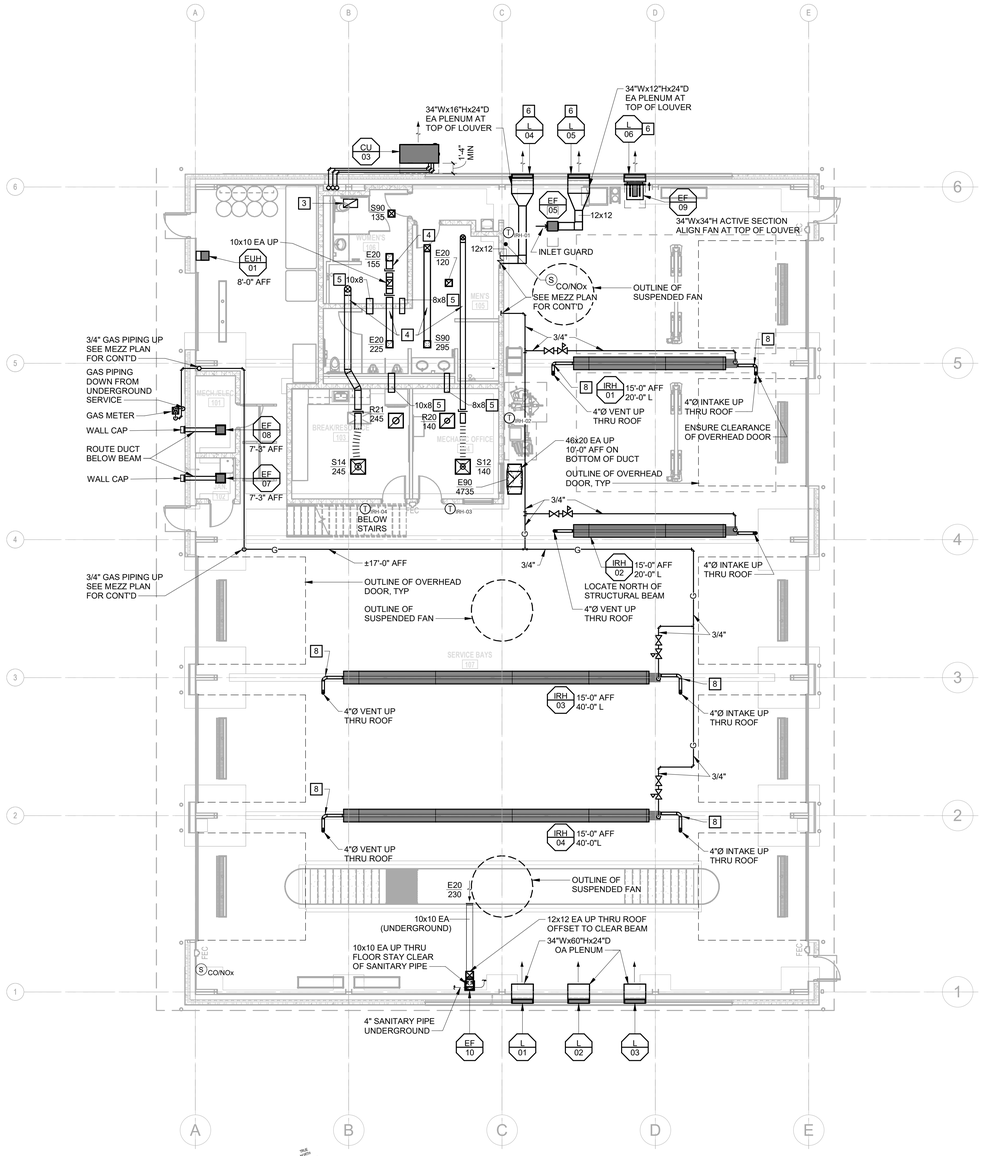
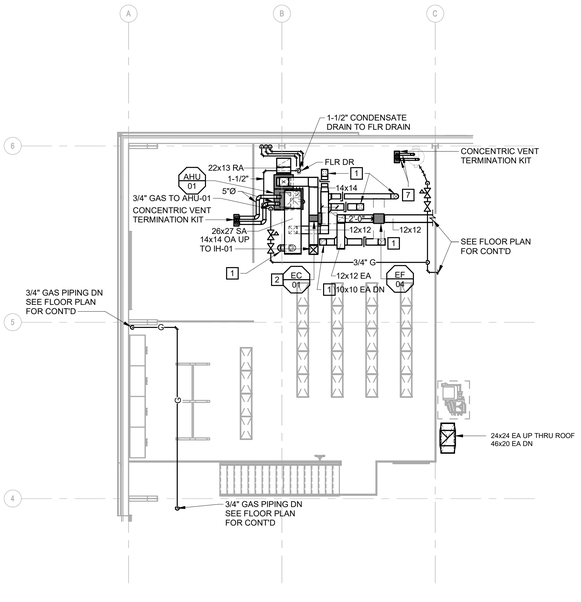


1 MAINT. MECHANICAL PLAN
1/8" = 1'-0"
0 4'-0" 8'-0" 16'-0"
SCALE: 1/8" = 1'-0"



2 MAINT. MEZZANINE MECHANICAL PLAN
1/8" = 1'-0"
0 4'-0" 8'-0" 16'-0"
SCALE: 1/8" = 1'-0"

APPARATUS BAY EXHAUST CALCULATIONS

EQUIPMENT	CODE REQ. EXHAUST	SQ FT	REQ. CFM	ACTUAL CFM
EF-06 & EF-09	0.70 CFM / SF	6,763	4,735	5,405
EF-05	0.05 CFM / SF	6,763	340	340
TOTAL	0.75 CFM / SF	6,763	5,072	5,745

M221 KEYED NOTES

#	
1	ALIGN VERTICAL DUCT DROP THROUGH MEZZANINE FLOOR AND BETWEEN JOIST SPACING BELOW.
2	PROVIDE A MINIMUM OF 2'-0" STRAIGHT RIGID DUCTWORK UPSTREAM AND DOWNSTREAM OF EC-01.
3	22x13 RA DOWN FROM ABOVE BETWEEN JOIST MEMBERS, TERMINATE IN PLENUM. COVER WITH 1/2" x 1/2" x 1/2" WIRE MESH SCREEN.
4	ROUTE DUCT UP IN JOIST SPACING.
5	REMOVE SECTION OF CONCRETE BLOCK WALL ABOVE CEILING AS A MEANS OF TRANSFER AIR. SEE PLANS FOR SIZE.
6	PROVIDE MINIMUM 1" INSULATED PANEL ON BACK SIDE OF NON-ACTIVE SECTION OF EXHAUST LOUVER.
7	3" CPVC VENT AND INLET PIPE FROM DWH-1 UP TO CONCENTRIC VENT KIT, SEE MEZZANINE PLAN FOR CONTINUATION.
8	ROLL ELBOW AT 30 DEGREES TO CREATE OFFSET FROM ROOF STRUCTURE.

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360/340 ECOLOGY DRIVE
ST. PETERS, MO 63376

No.	Date	Revision

MAINT. MECHANICAL PLAN

Project No.
23121

Sheet No.
M221

Date
09/16/2025

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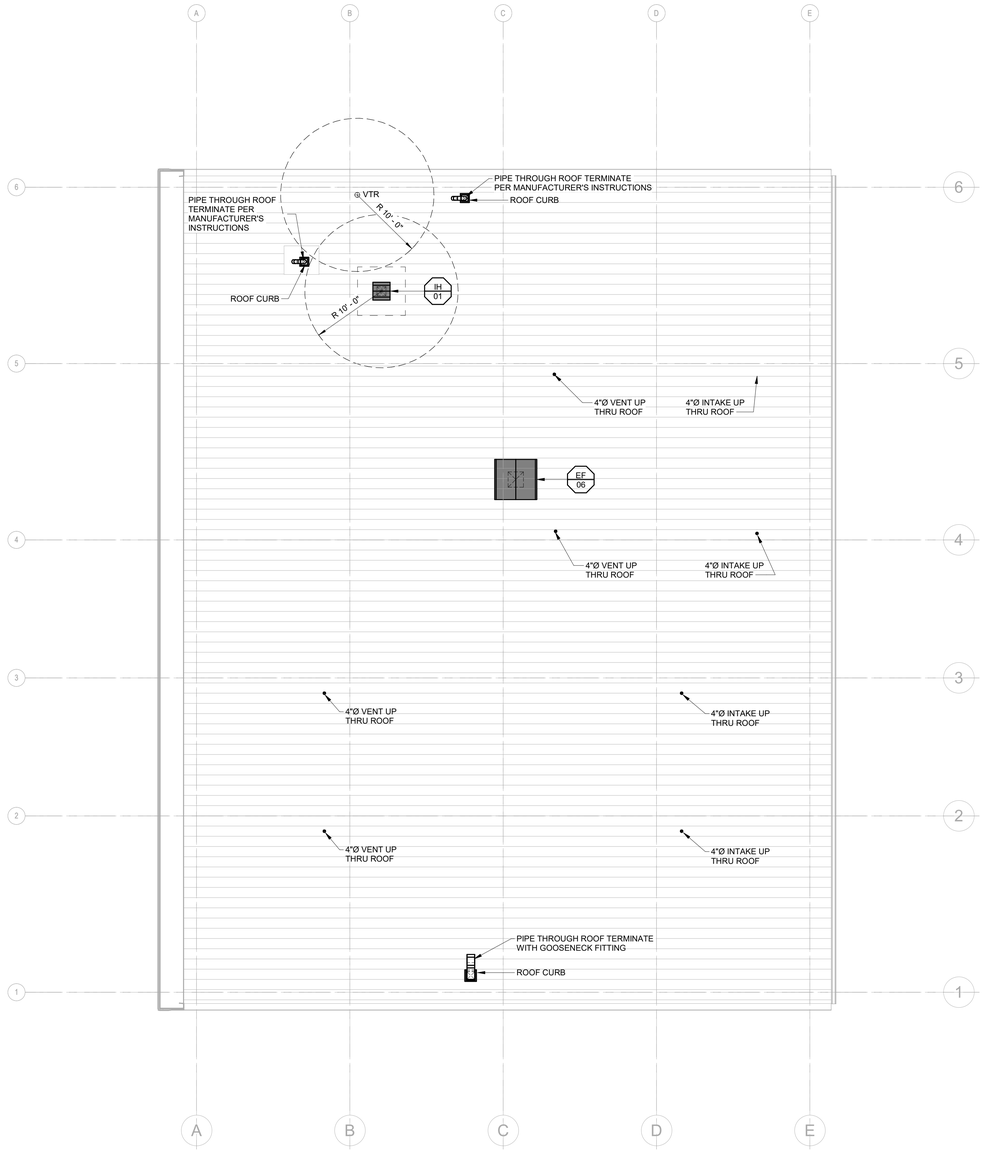

1 MAINT. MECHANICAL ROOF PLAN
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SCALE: 1/8" = 1'-0"

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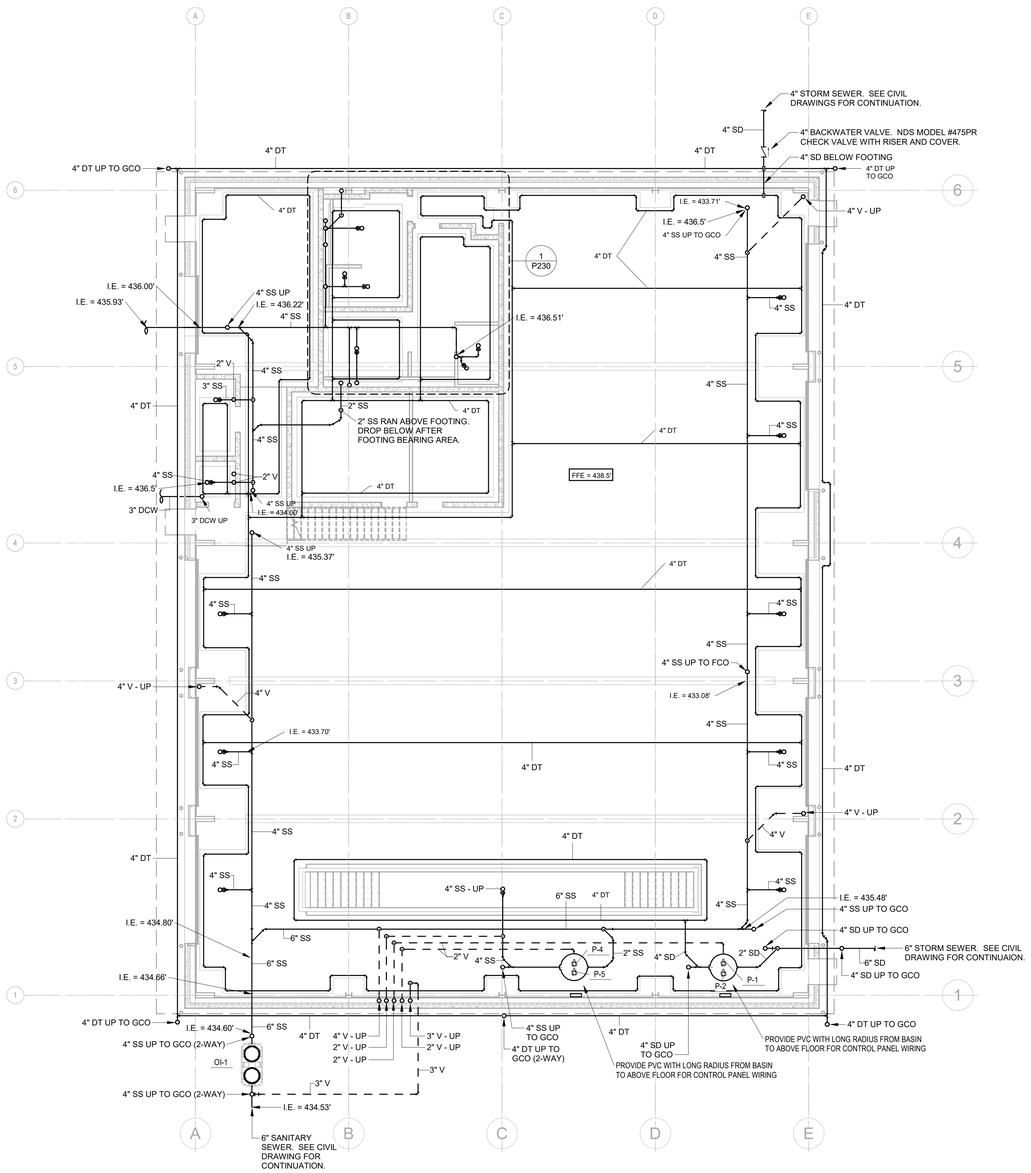
No.	Date	Revision

MAINT. MECHANICAL ROOF PLAN

Project No. 23121

Sheet No. M222

Date 09/16/2025



1 MAINT. PLUMING UNDERFLOOR PLAN
1/8" = 1'-0"
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SCALE: 1/8" = 1'-0"

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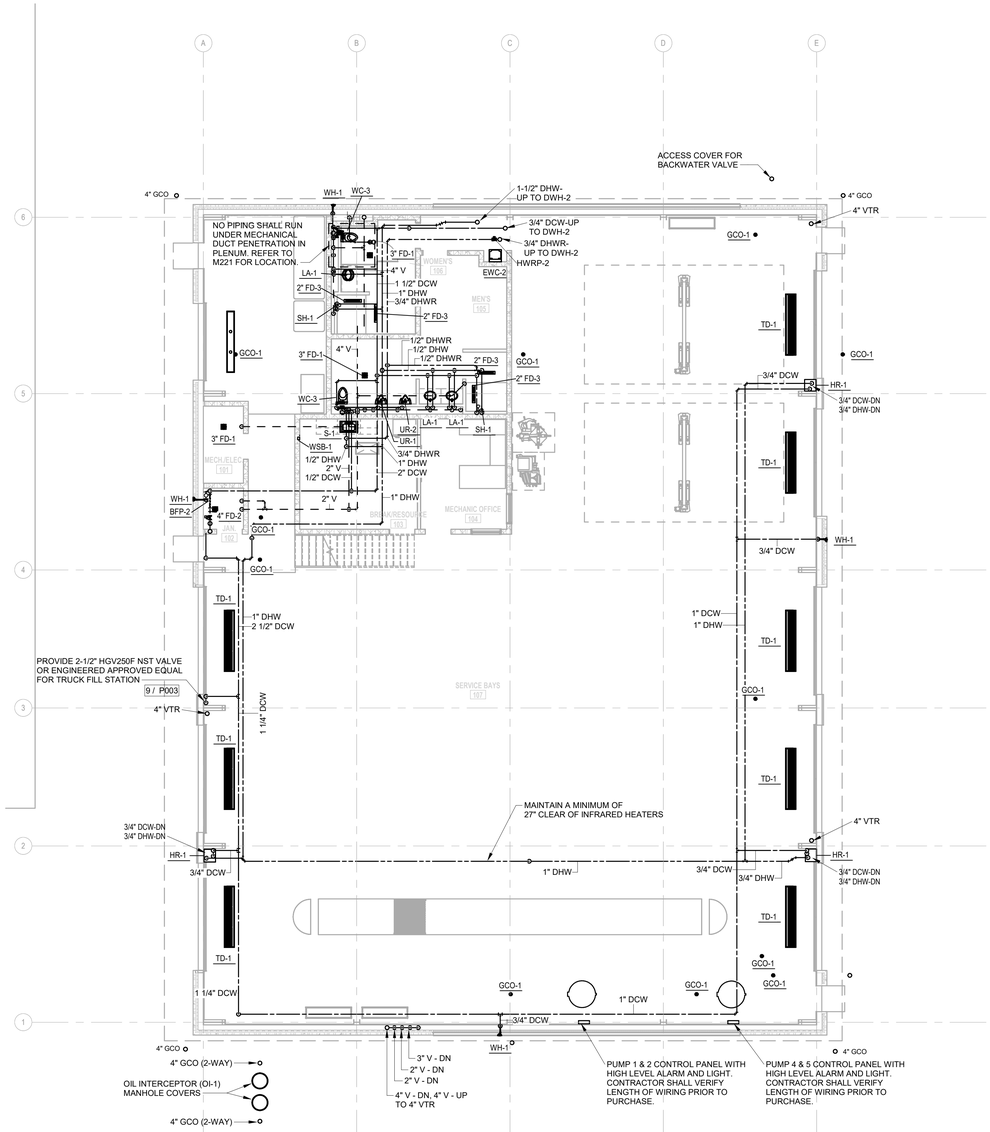
No.	Date	Revision

MAINT. PLUMBING UNDERFLOOR PLAN

Project No. 23121
Sheet No. P220
Date 09/16/2025



1 MAINT. PLUMBING PLAN
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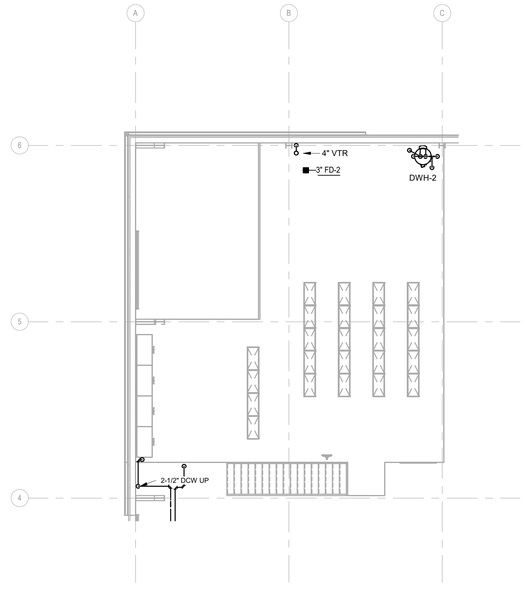
SCALE: 1/8" = 1'-0"



2 MAINT. MEZZANINE PLUMBING PLAN
1/8" = 1'-0"
0 4'-0" 8'-0" 16'-0"
SCALE: 1/8" = 1'-0"

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360/340 ECOLOGY DRIVE

No.	Date	Revision

MAINT. PLUMBING PLAN

Project No.
23121

Sheet No.
P221

Date
09/16/2025

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SCALE: 3/32" = 1'-0" 0 8' 16' 24'
SCALE: 1/8" = 1'-0" 0 4' 8' 16'
SCALE: 1/4" = 1'-0" 0 2' 4' 8'
SCALE: 3/8" = 1'-0" 0 2' 4' 6'
SCALE: 1/2" = 1'-0" 0 1' 2' 4'
SCALE: 3/4" = 1'-0" 0 1' 2' 3'
SCALE: 1" = 1'-0" 0 6" 1' 2'
SCALE: 1 1/2" = 1'-0" 0 3" 6" 1' 2'
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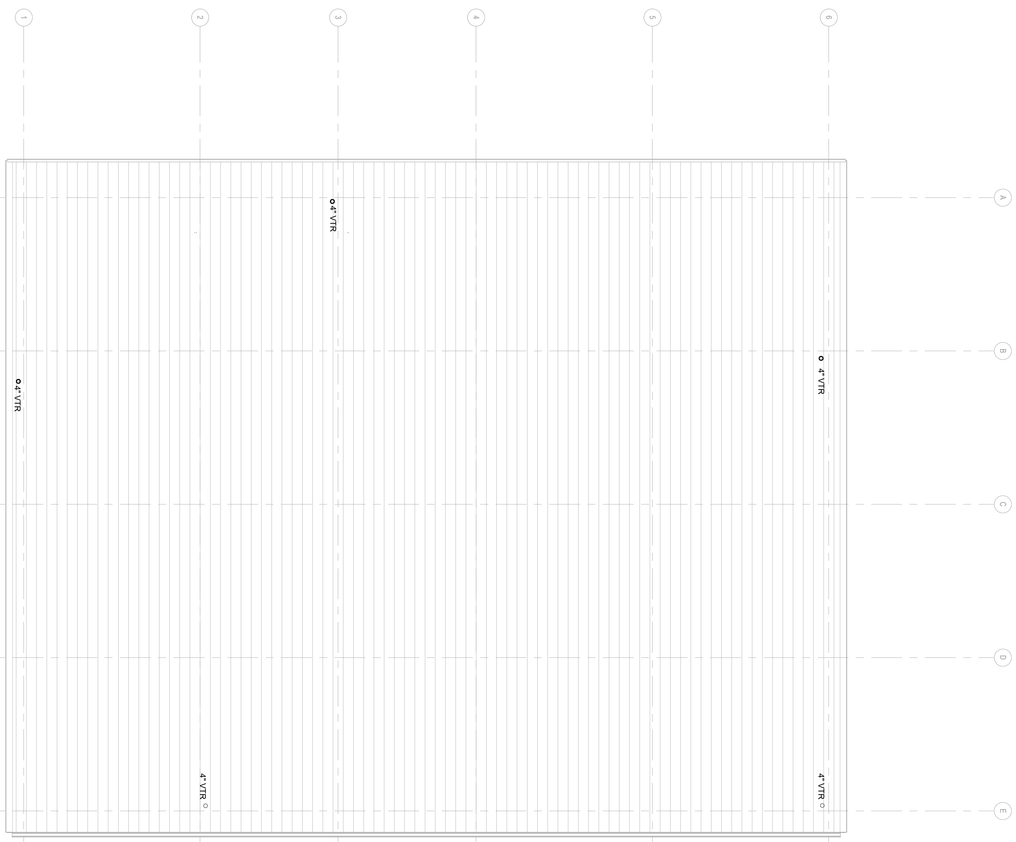
1 MAINT. PLUMBING ROOF PLAN
1/8" = 1'-0"
SCALE: 1/8" = 1'-0" 0 4'-0" 8'-0" 16'-0"



No.	Date	Revision

Sheet No. P222
Project No. 23121
DWP 09/16/2025

MAINT. PLUMBING ROOF PLAN

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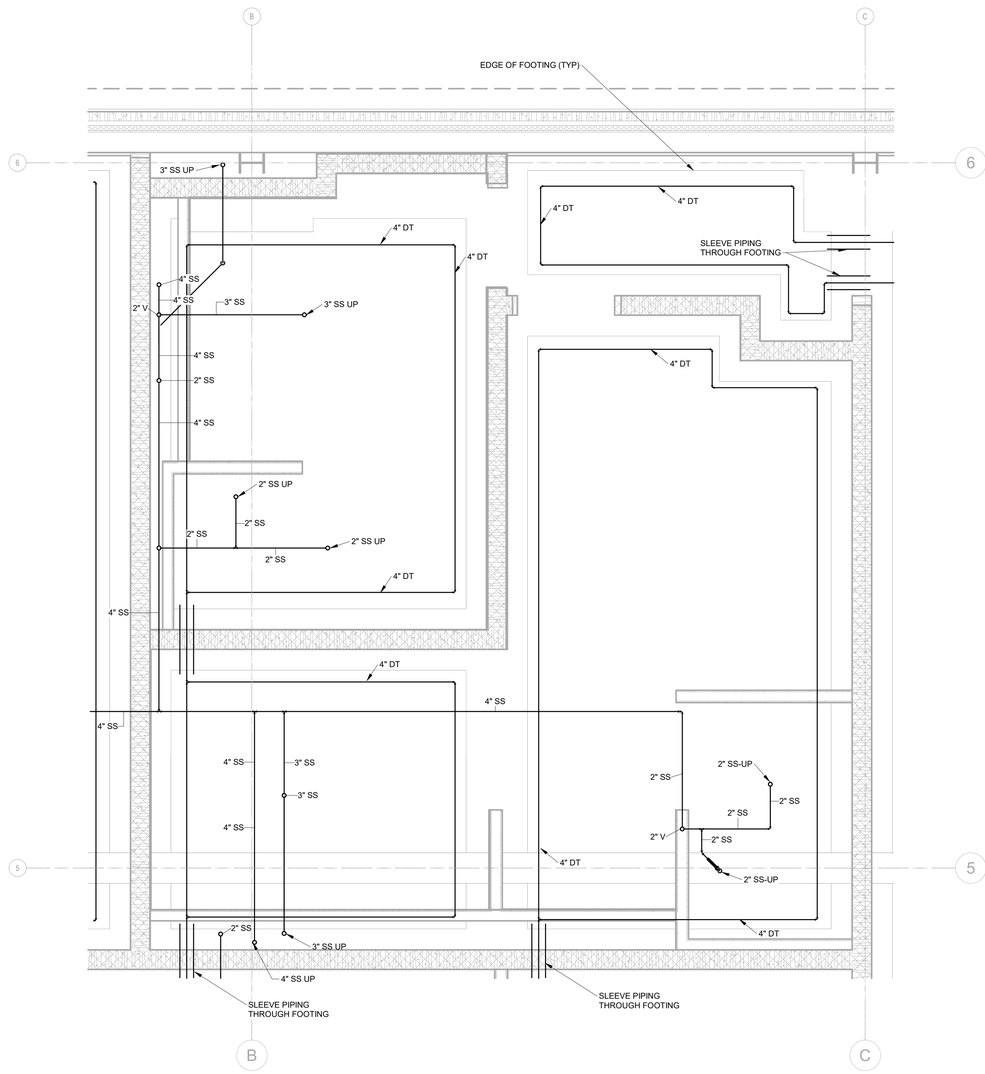

1 MAINT. ENLARGED PLUMBING UNDERFLOOR PLAN - RESTROOMS

1/2" = 1'-0"

0 1'-0" 2'-0" 4'-0"

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

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No.	Date	Revision

ENLARGED MAINT. PLUMBING PLAN

Project No. 23121

Sheet No. P230

Date 09/16/2025

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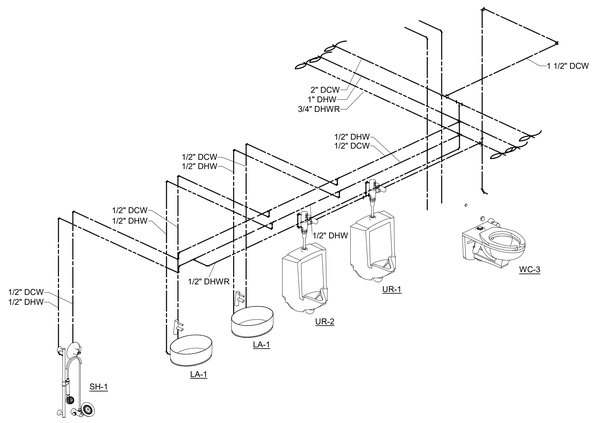

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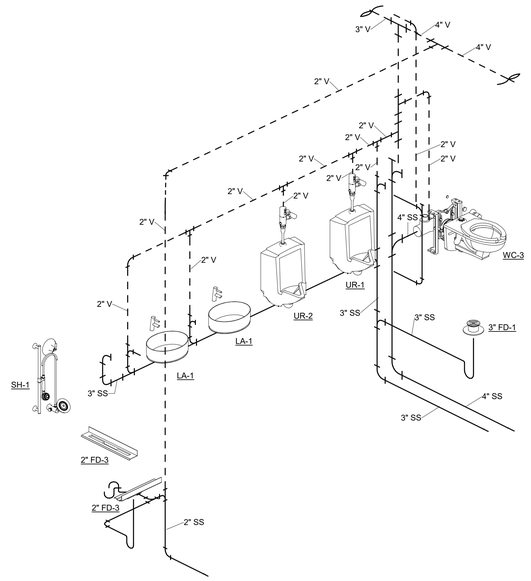

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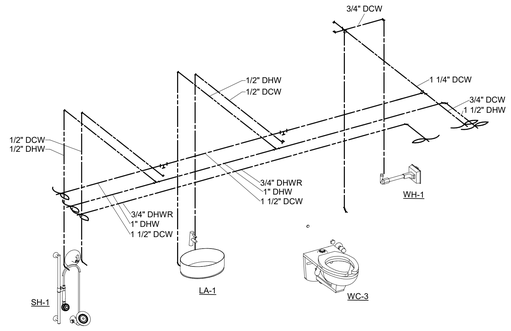

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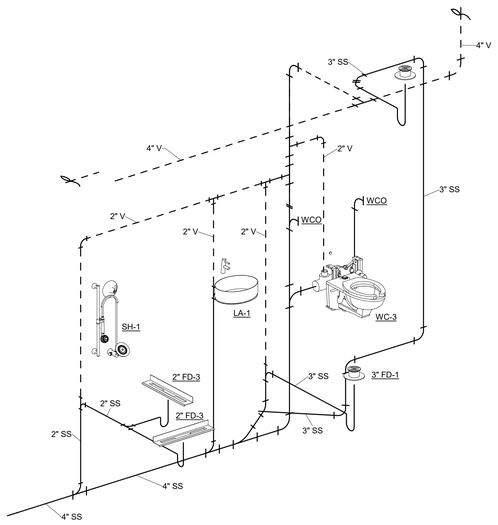

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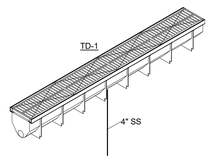

7 TRENCH DRAIN RISER DIAGRAM - SANITARY (TYP)

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No.	Date	Revision

MAINT. PLUMBING ISOMETRICS

Project No. 23121

Sheet No. P241

Date 09/16/2025

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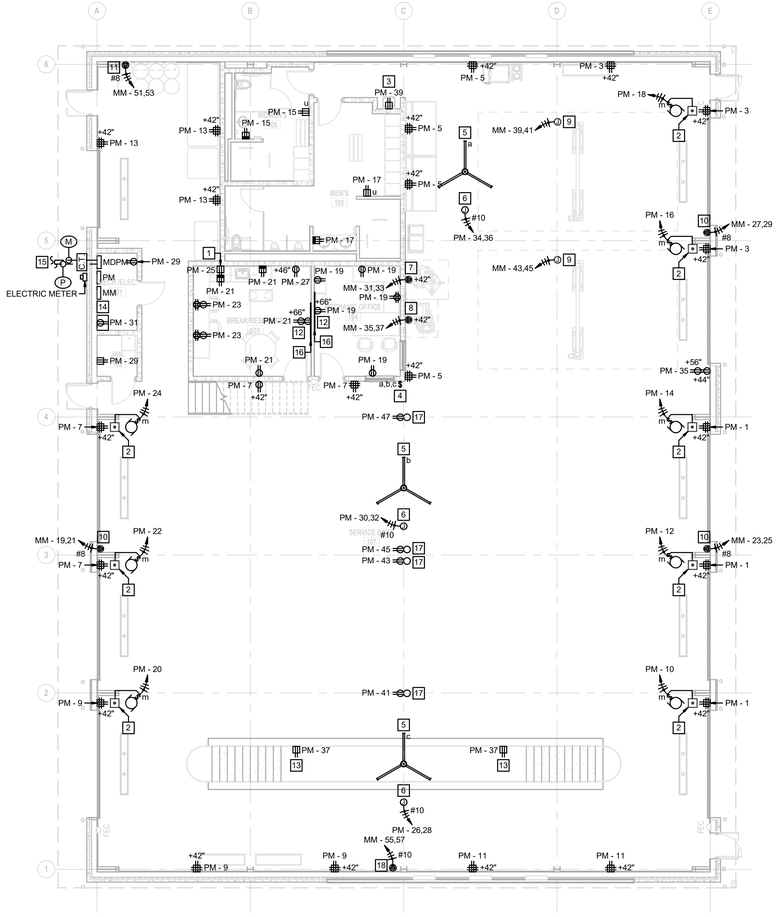
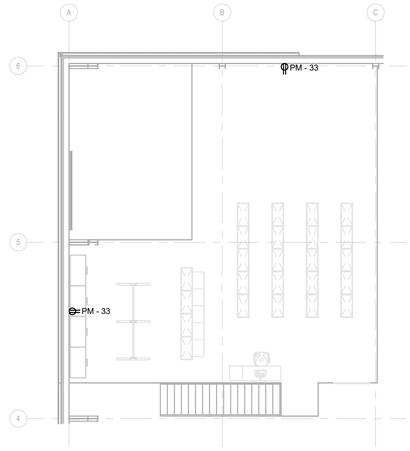
E221 KEYED NOTES

#	
1	OUTLET FOR MICROWAVE. SEE ARCHITECTURAL PLANS FOR LOCATION.
2	OVERHEAD DOOR CONTROLLER SUPPLIED WITH DOOR. INSTALLED BY ELECTRICAL CONTRACTOR +54".
3	ELECTRIC WATER COOLER OUTLET. MOUNT OUTLET TO CONCEAL CORD AND PLUG. FOLLOW MANUFACTURERS REQUIREMENTS OF SPECIFIC MODEL INSTALLED.
4	RITE HITE FAN COMMANDER 2.0 CONTROLLER FOR APPARATUS BAY FANS. PROGRAM FANS ON SEPARATE ZONES. ONE CONTROLLER FOR 3 FANS.
5	RITE HITE REVOLUTION 75 SERIES 8' DIAMETER, 3'-6" DROP HEIGHT, 208 VOLT SINGLE PHASE, STANDARD FINISH WITH FAN COMMANDER 2.0 CONTROLLER.
6	NEMA L6-30R RECEPTACLE FOR FAN POWER.
7	NEMA L6-20R RECEPTACLE FOR TIRE BALANCER POWER.
8	NEMA L6-20R RECEPTACLE FOR TIRE MACHINE POWER.
9	POWER FOR VEHICLE LIFT. COORDINATE WITH MANUFACTURER.
10	50 AMP, 208 VOLT WELDER RECEPTACLE.
11	50 AMP, 208 VOLT AIR COMPRESSOR RECEPTACLE. AIR COMPRESSOR PROVIDED BY OWNER.
12	SEE AUXILIARY PLAN FOR DESCRIPTION.
13	BOVE PIT FLOOR. ALL CONDUIT IN PIT SHALL BE GALVANIZED RIGID STEEL WITH EXPLOSION PROOF FITTINGS AND BOXES.
14	RACK AND CABINET PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR. UPS PROVIDED AND INSTALLED BY OWNER. PATCH PANEL PROVIDED AND INSTALLED BY CONTRACTOR.
15	SEE ELECTRICAL SITE PLAN SHEET E006 FOR CONTINUATION.
16	OWNER SUPPLIED AND CONTRACTOR INSTALLED TV. REFER TO OWNER FOR EXACT LOCATION.
17	PROVIDE AND INSTALL REELCRAFT SERIES L5050 NEMA 5-20R QUAD BOX POWER CORD REEL. SET OUTLET ON CORD REEL 6' A.F.F.. VERIFY FINAL LOCATION WITH OWNER.
18	POWER FOR WASTE OIL FURNACE.. VERIFY FINAL LOCATION WITH OWNER.



1 MAINTENANCE POWER PLAN
1/8" = 1'-0"

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



2 MAINTENANCE POWER MEZZANINE PLAN
1/8" = 1'-0"

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No.	Date	Revision

MAINTENANCE POWER PLAN

Project No.
23121

Sheet No.
E221

Date
09/16/2025

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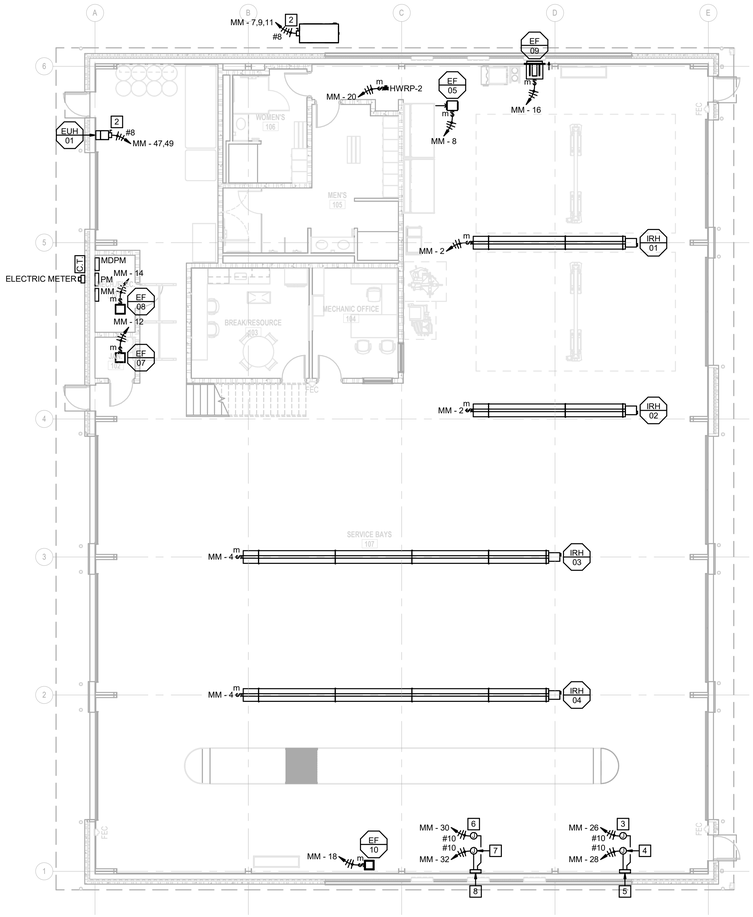
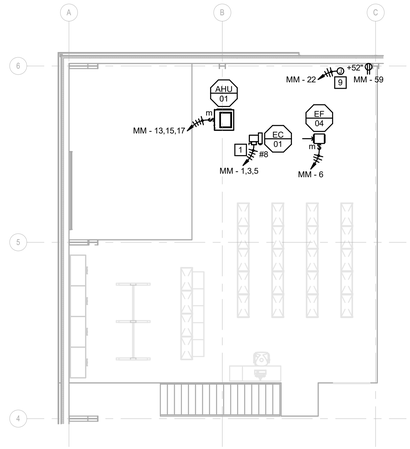
E222 KEYED NOTES

1. NEMA 1, 30 AMP FUSIBLE DISCONNECT. FUSE AT 30 AMP WITH FRS-R FUSES.
2. NEMA 1, 60 AMP FUSIBLE DISCONNECT. FUSE AT 35 AMP WITH FRS-R FUSES.
3. POWER FOR PUMP P-1. SEE PLUMBING PLANS FOR EXACT LOCATION.
4. POWER FOR PUMP P-2. SEE PLUMBING PLANS FOR EXACT LOCATION.
5. CONNECT PUMPS P-1 AND P-2 TO PUMP CONTROL PANEL. SEE PLUMBING PLANS FOR EXACT LOCATION.
6. POWER FOR PUMP P-4. SEE PLUMBING PLANS FOR EXACT LOCATION.
7. POWER FOR PUMP P-5. SEE PLUMBING PLANS FOR EXACT LOCATION.
8. CONNECT PUMPS P-4 AND P-5 TO PUMP CONTROL PANEL. SEE PLUMBING PLANS FOR EXACT LOCATION.
9. POWER FOR TMV-2. REFER TO PLUMBING PLANS FOR EXACT LOCATION.



1 MAINT. EQUIPMENT POWER PLAN
1/8" = 1'-0"



2 MAINT. EQUIP POWER MEZZANINE PLAN
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0"
SCALE: 1/8" = 1'-0"

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Proposed:
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360/340 ECOLOGY DRIVE ST. PETERS, MO 63376

No.	Date	Revision

MAINT. EQUIPMENT POWER PLAN

Project No. 23121

Sheet No. E222

Date 09/16/2025

MAINT. EQUIPMENT POWER ROOF PLAN

No.	Date	Revision

Project No. 23121

Sheet No. **E223**

Date 09/16/2025

Proposed:

CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE

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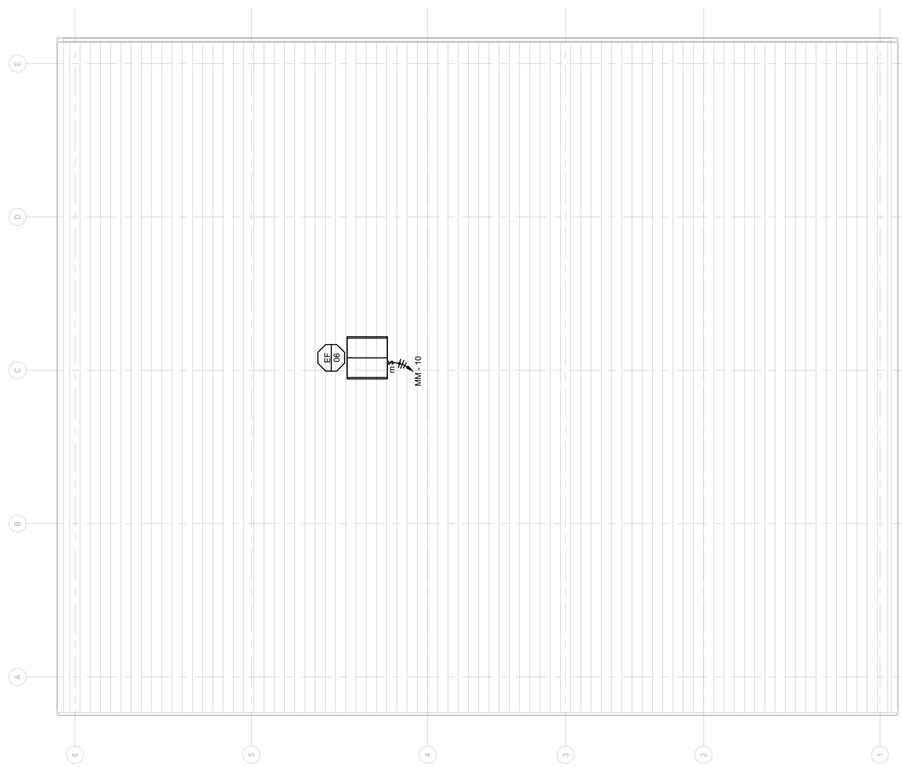

1 MAINT. EQUIPMENT POWER ROOF PLAN
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SCALE: 1/8" = 1'-0"

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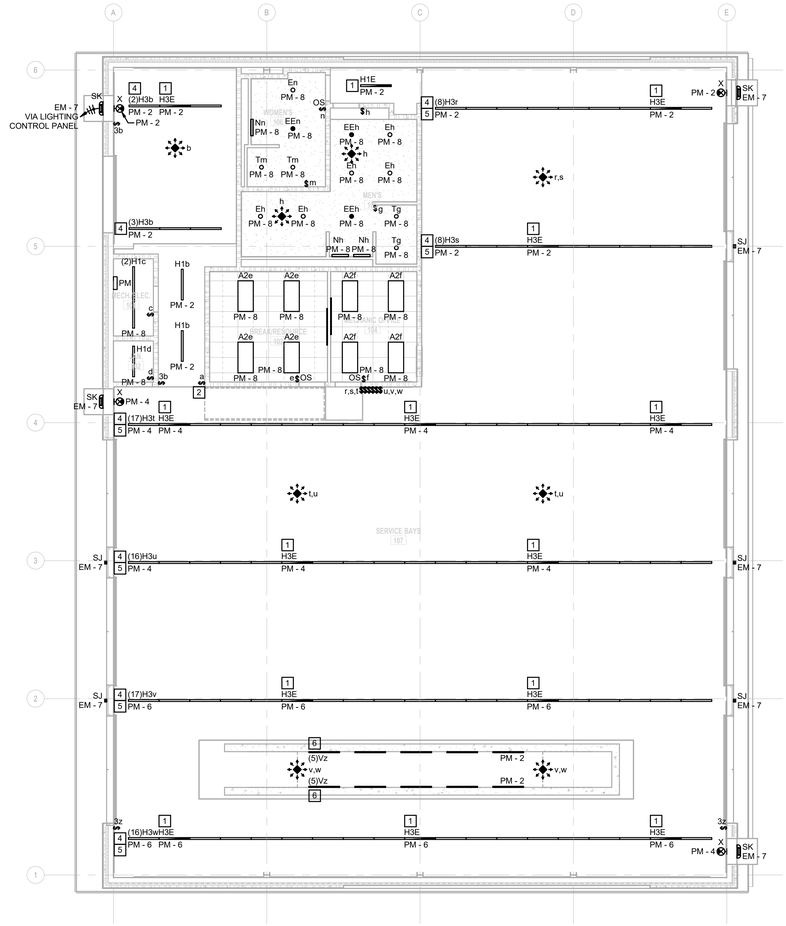
Autodesk Docs://2301200 - Central County Fire St Peters/2301200_CentralCounty_MEP_23.rvt

SCALE: 1/16" = 1'-0" 0 8" 16" 32"
SCALE: 3/32" = 1'-0" 0 8" 16" 2'
SCALE: 1/8" = 1'-0" 0 8" 16" 4'
SCALE: 1/4" = 1'-0" 0 4' 8" 8'
SCALE: 3/8" = 1'-0" 0 4' 8" 12'
SCALE: 1/2" = 1'-0" 0 1' 2' 4'
SCALE: 3/4" = 1'-0" 0 1' 2' 3'
SCALE: 1" = 1'-0" 0 6" 1' 2'
SCALE: 1 1/2" = 1'-0" 0 3" 6" 1' 2'
SCALE: 3" = 1'-0" 0 1' 2' 4'

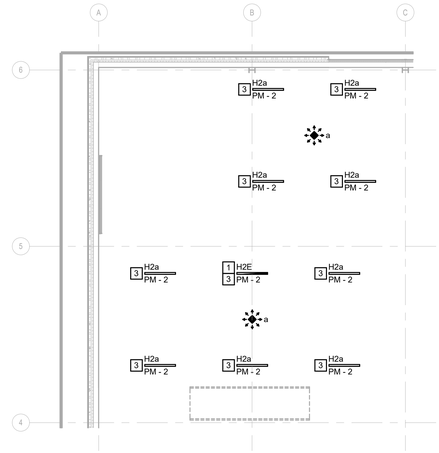
E231 KEYED NOTES

1. FIXTURE CONNECTED AS UNSWITCHED NIGHT LIGHT FIXTURE. FIXTURE SHALL DIM 50% BETWEEN THE HOURS OF 10 PM AND 6 AM. SEE SCHEMATIC.
2. SWITCH FOR CONTROL OF MEZZANINE LIGHTING.
3. HANG FIXTURE AT 10' A.F.F..
4. HANG FIXTURE AT 18' A.F.F..
5. MOUNT LIGHT FIXTURES 1' ABOVE AND 1' TO THE SIDE OF RADIANT HEATERS.
6. MOUNT LIGHT FIXTURES APPROX 60" ABOVE PIT FLOOR.



1 MAINT. LIGHTING PLAN
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0"
SCALE: 1/8" = 1'-0"



2 MAINT. MEZZANINE LIGHTING
1/8" = 1'-0"

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360/340 ECOLOGY DRIVE ST. PETERS, MO 63376

No.	Date	Revision

MAINT. LIGHTING PLAN

Project No. 23121

Sheet No. E231

Date 09/16/2025

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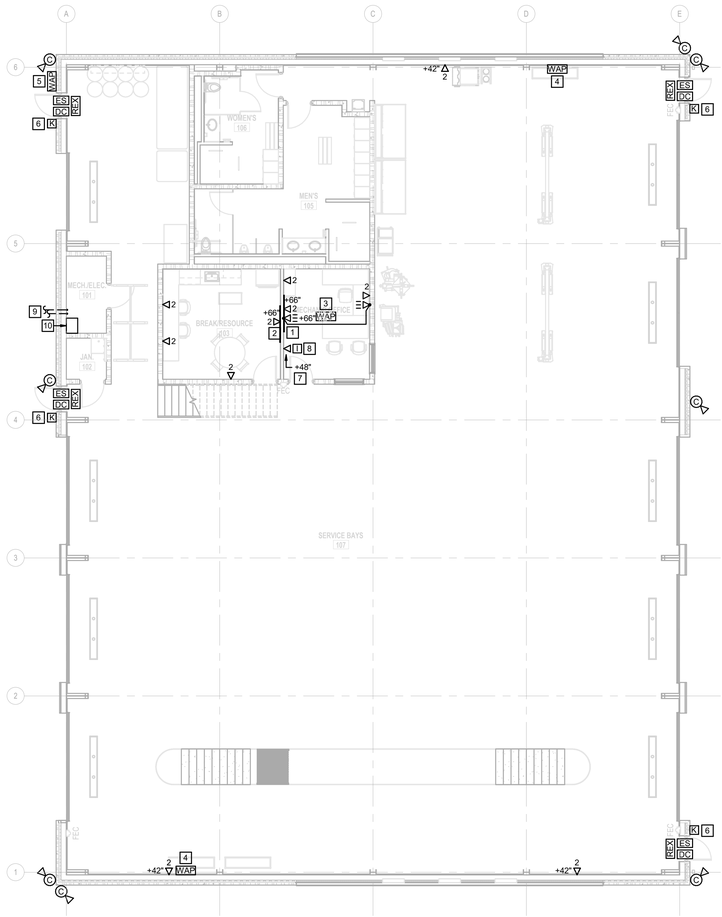
E241 KEYED NOTES

1. INSTALL HDMI OUTLET, DATA OUTLET AND DUPLEX OUTLET IN RECESSED TV BOX SIMILIAR TO P&S TV2MW BOX. INSTALL HDMI CABLE BETWEEN HDMI OUTLETS.
2. INSTALL DATA OUTLET AND DUPLEX OUTLET IN RECESSED TV BOX SIMILIAR TO P&S TV2MW BOX.
3. OWNER SUPPLIED AND CONTRACTOR INSTALLED WIRELESS ACCESS POINT IN OFFICE CEILING.
4. OWNER SUPPLIED AND CONTRACTOR INSTALLED WALL MOUNTED WIRELESS ACCESS POINT.
5. OWNER SUPPLIED AND CONTRACTOR INSTALLED WALL MOUNTED WIRELESS ACCESS POINT BEAM TO TRAINING TOWER.
6. OWNER SUPPLIED AND CONTRACTOR INSTALLED KEYPAD. ROUTE COMPOSITE CABLE FROM KEYPAD TO ENTERPRISE ACCESS HUB IN ELECTRICAL ROOM 101.
7. DATA OUTLET FOR OWNER SUPPLIED AND CONTRACTOR INSTALLED INTERCOM VIEWER.
8. OWNER SUPPLIED AND CONTRACTOR INSTALLED INTERCOM VIEWER.
9. (2) 2" CONDUIT WITH PULLSTRING FOR FIBER/PHONE AND CCTV/CARD ACCESS FROM I.T. CLOSET 137 IN HEADQUARTERS BUILDING TO ELECTRICAL ROOM 101 IN MAINTENANCE BUILDING. SEE SHEETS E006 AND E141 FOR CONTINUATION.
10. RACK AND CABINET PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR. UPS PROVIDED AND INSTALLED BY OWNER. PATCH PANEL PROVIDED AND INSTALLED BY CONTRACTOR.



1 MAINT. AUXILIARY PLAN
1/8" = 1'-0"
0 4'-0" 8'-0" 16'-0"
SCALE: 1/8" = 1'-0"

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Proposed:
CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE
360/340 ECOLOGY DRIVE ST. PETERS, MO 63376

No.	Date	Revision

MAINT. AUXILIARY PLAN

Project No. 23121
Sheet No. E241
Date 09/16/2025

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Panelboard: MDPM | **Mounting: SURFACE** | **Location: MECH./ELEC. 101** | **AIC Rating: 42 kA Minimum**
Volts: 120/208 Wye | **Phases: 3** | **Amps: 400 A** | **Feed From: XFMR**
Wire: 4 | **Mains: 400 A MCB (LSI)**

Circuit Description	Amps	Poles	CKT	A		B		C		CKT	Poles	Amps	Circuit Description
SPD	60 A	3	1	0	27764					2	3	225 A	Panel MM
--	--	--	3			0	30740			4	--	--	--
--	--	--	5					0	26734	6	--	--	--
Panel PM	125 A	3	7	11998	2906					8	3	100 A	Panel PT
--	--	--	9			10363	2760			10	--	--	--
--	--	--	11					9899	720	12	--	--	--
SPACE	--	3	13	--	--					14	3	--	SPACE
--	--	--	15			--	--			16	--	--	--
--	--	--	17					--	--	18	--	--	--
SPACE	--	3	19	--	--					20	3	--	SPACE
--	--	--	21			--	--			22	--	--	--
--	--	--	23					--	--	24	--	--	--
SPACE	--	3	25	--	--					26	3	--	SPACE
--	--	--	27			--	--			28	--	--	--
--	--	--	29					--	--	30	--	--	--
	Phase Load:			**42.53 kW**		**43.75 kW**		**37.24 kW**					
	Phase Amps:			**361.23 A**		**371.37 A**		**310.32 A**					
	Total Load:			**123.52 kW**									
	Total Amps:			**342.86 A**									

Panelboard: MM | **Mounting: SURFACE** | **Location: MECH./ELEC. 101** | **AIC Rating: 22 kA Minimum**
Volts: 120/208 Wye | **Phases: 3** | **Amps: 225 A** | **Feed From: MDPM**
Wire: 4 | **Mains: MLO**

Circuit Description	Amps	Poles	CKT	A		B		C		CKT	Poles	Amps	Circuit Description
EC-01	30 A	3	1	3122	240					2	1	20 A	IRH-01, 02
--	--	--	3			3122	240			4	1	20 A	IRH-03, 04
--	--	--	5					3122	228	6	1	15 A	EF-04
CU-03	40 A	3	7	2282	228					8	1	15 A	EF-05
--	--	--	9			2282	2400			10	1	35 A	EF-06
--	--	--	11					2282	24	12	1	20 A	EF-07
AHU-01	15 A	3	13	480	24					14	1	20 A	EF-08
--	--	--	15			480	984			16	1	20 A	EF-09
--	--	--	17					480	228	18	1	20 A	EF-10
Welder	50 A	2	19	4800	50					20	1	15 A	HWRP-2
--	--	--	21			4800	50			22	1	20 A	TMV-2
Welder	50 A	2	23					4800	250	24	1	20 A	Pond Aerator Pump
--	--	--	25	4800	1860					26	1	20 A	P-1
Welder	50 A	2	27			4800	1860			28	1	20 A	P-2
--	--	--	29					4800	1860	30	1	20 A	P-4
Tire Balancer	20 A	2	31	1040	1860					32	1	20 A	P-5
--	--	--	33			1040	0			34	1	20 A	SPARE
Tire Machine	20 A	2	35					728	0	36	1	20 A	SPARE
--	--	--	37	728	0					38	1	20 A	SPARE
Vehicle Lift	20 A	2	39			1500	0			40	1	20 A	SPARE
--	--	--	41					1500	0	42	1	20 A	SPARE
Vehicle Lift	20 A	2	43	1500	0					44	1	20 A	SPARE
--	--	--	45			1500	0			46	1	20 A	SPARE
EUH-01	35 A	2	47					2500	0	48	1	20 A	SPARE
--	--	--	49	2500	0					50	1	20 A	SPARE
Air Compressor	50 A	2	51			3432	0			52	1	20 A	SPARE
--	--	--	53					3432	0	54	1	20 A	SPARE
Waste Oil Furnace	30 A	2	55	2250	0					56	1	20 A	SPARE
--	--	--	57			2250	0			58	1	20 A	SPARE
Water Heater	20 A	1	59					500	0	60	1	20 A	SPARE
	Phase Load:			**27.76 kW**		**30.74 kW**		**26.73 kW**					
	Phase Amps:			**232.69 A**		**257.49 A**		**222.79 A**					
	Total Load:			**85.24 kW**									
	Total Amps:			**236.60 A**									

Panelboard: PM | **Mounting: SURFACE** | **Location: MECH./ELEC. 101** | **AIC Rating: 22 kA Minimum**
Volts: 120/208 Wye | **Phases: 3** | **Amps: 125 A** | **Feed From: MDPM**
Wire: 4 | **Mains: MLO**

Circuit Description	Amps	Poles	CKT	A		B		C		CKT	Poles	Amps	Circuit Description
Receptacles - Service Bay	20 A	1	1	1080	1918					2	1	20 A	Lighting - Service Bay
Receptacles - Service Bay	20 A	1	3			1080	1748			4	1	20 A	Lighting - Service Bay
Receptacles - Service Bay	20 A	1	5					1440	1748	6	1	20 A	Lighting - Service Bay
Receptacles - Service Bay	20 A	1	7	1260	715					8	1	20 A	Lighting - Rooms 103, 104, 106, 105
Receptacles - Service Bay	20 A	1	9			1080	500			10	1	20 A	Overhead Door
Receptacles - Service Bay	20 A	1	11					720	500	12	1	20 A	Overhead Door
Receptacles - Fluids Room	20 A	1	13	1080	500					14	1	20 A	Overhead Door
Receptacles - Women's Restroom	20 A	1	15			360	500			16	1	20 A	Overhead Door
Receptacles - Men's Restroom	20 A	1	17					360	500	18	1	20 A	Overhead Door
Receptacles - Mechanic Office	20 A	1	19	1080	500					20	1	20 A	Overhead Door
Receptacles - Break/Resource	20 A	1	21			900	500			22	1	20 A	Overhead Door
Receptacles - Break/Resource	20 A	1	23					1080	500	24	1	20 A	Overhead Door
Microwave Receptacle - Break/Resource	20 A	1	25	1200	1602					26	2	30 A	Ceiling Fan - Service Bay
Refrigerator Receptacle - Break/Resource	20 A	1	27			1000	1602			28	--	--	--
Receptacles - Mech/Elec.,Janitor	20 A	1	29					360	1602	30	2	30 A	Ceiling Fan - Service Bay
Data Rack Receptacle - Mech/Elec	20 A	1	31	500	1602					32	--	--	--
Receptacles - Mezzanine	20 A	1	33			360	1602			34	2	30 A	Ceiling Fan - Service Bay
Charger Receptacles - Apparatus Bay	20 A	1	35					360	1602	36	--	--	--
Receptacles - Oil Pit	20 A	1	37	360	0					38	1	20 A	SPARE
Water Cooler Receptacle	20 A	1	39			370	0			40	1	20 A	SPARE
Cordreel Receptacles - Service Bay	20 A	1	41					360	0	42	1	20 A	SPARE
Cordreel Receptacles - Service Bay	20 A	1	43	360	0					44	1	20 A	SPARE
Cordreel Receptacles - Service Bay	20 A	1	45			360	0			46	1	20 A	SPARE
Cordreel Receptacles - Service Bay	20 A	1	47					360	0	48	1	20 A	SPARE
SPARE	20 A	1	49	0	0					50	1	20 A	SPARE
SPARE	20 A	1	51			0	0			52	1	20 A	SPARE
SPARE	20 A	1	53					0	0	54	1	20 A	SPARE
SPARE	20 A	1	55	0	0					56	1	20 A	SPARE
SPARE	20 A	1	57			0	0			58	1	20 A	SPARE
SPARE	20 A	1	59					0	0	60	1	20 A	SPARE
	Phase Load:			**12.00 kW**		**10.36 kW**		**9.90 kW**					
	Phase Amps:			**100.58 A**		**86.96 A**		**82.49 A**					
	Total Load:			**32.26 kW**									
	Total Amps:			**89.54 A**									

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Proposed:
CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE
ST. PETERS, MO 63376
380/340 ECOLOGY DRIVE

No.	Date	Revision

MAINT. PANEL SCHEDULES

Project No.
23121

Sheet No.
E261

Date
09/16/2025

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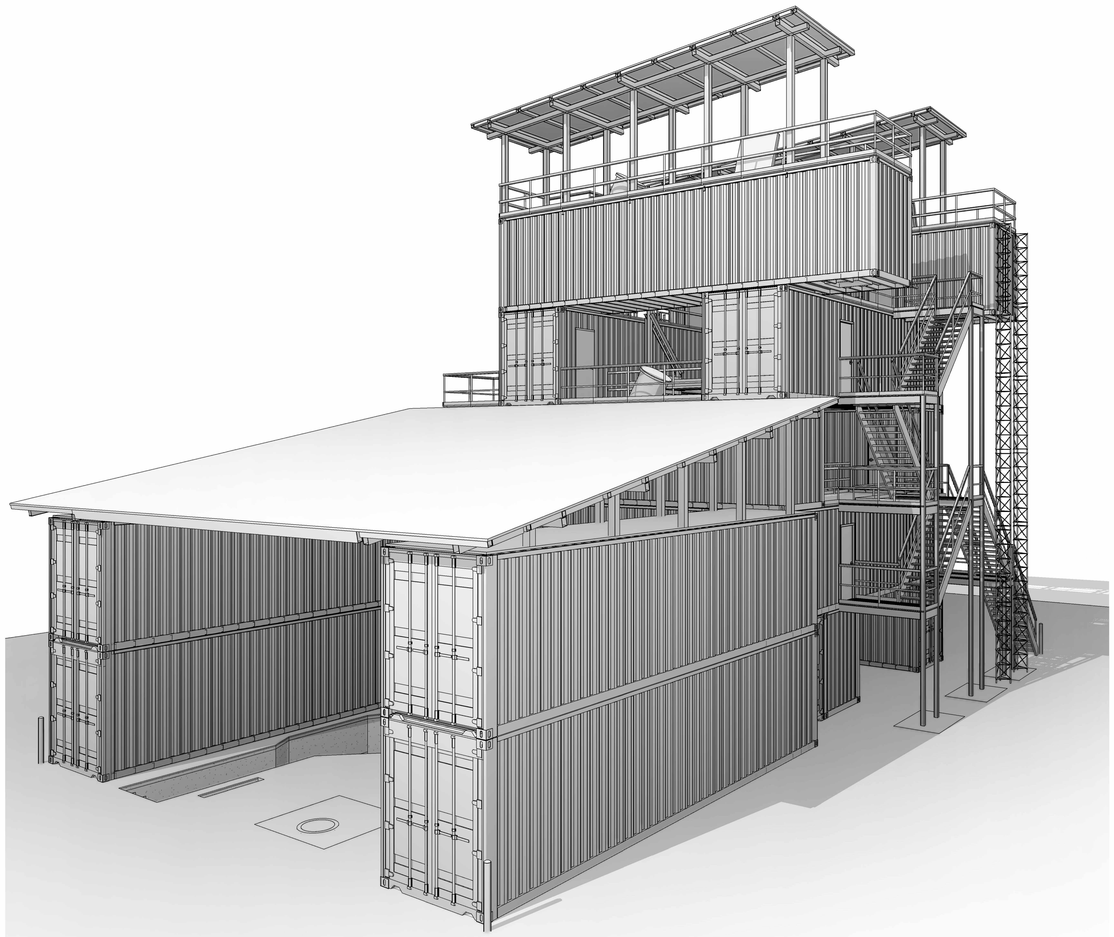
SHEET INDEX - TRAINING TOWER

SHEET NUMBER	SHEET NAME	3RMT
ARCHITECTURAL		
A300	TRAINING TOWER 3D	
A311	FLOOR PLANS	■
A312	FLOOR PLANS	■
A313	FLOOR PLANS	■
A315	ROOF PLAN	■
A321	EXTERIOR ELEVATIONS	■
A322	EXTERIOR ELEVATIONS	■
A323	EXTERIOR ELEVATIONS	■
A341	INTERIOR ELEVATIONS	■
A342	INTERIOR ELEVATIONS	■
A351	ENLARGED PLANS TRENCH	■
A352	TRENCH DETAILS	■
A353	DETAILS	■
A361	DOOR SCHEDULE & WINDOWS	■
A363	STAIR PLANDETAILS	■
A364	LADDER DETAILS	■
STRUCTURAL		
S321	FDN PLAN & 2ND LEVEL FRAMING PLAN	■
S322	3RD & 4TH LEVEL FRAMING PLANS	■
S323	5TH & 6TH LEVEL FRAMING PLANS	■
S324	ROOF FRAMING PLAN	■
S331	TRENCH SECTIONS & DETAILS	■
S332	FOUNDATION SECTIONS & DETAILS	■
S341	FRAMING SECTIONS & DETAILS	■
S342	FRAMING SECTIONS & DETAILS	■
PLUMBING		
P320	TOWER UNDERFLOOR PLUMBING PLAN	■
ELECTRICAL		
E321	TOWER ELECTRICAL FIRST FLOOR PLAN	■
E322	TOWER ELECTRICAL THIRD FLOOR PLAN	■
E323	TOWER ELECTRICAL FIFTH FLOOR PLAN	■



A1 TRAINING TOWER 3D NORTHWEST



A4 3D TRAINING TOWER SOUTHEAST

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380/340 ECOLOGY DRIVE
ST. PETERS, MO 63376

No.	Date	Revision

TRAINING TOWER 3D

Project No.
23121

Sheet No.
A300

Date
09/16/2025

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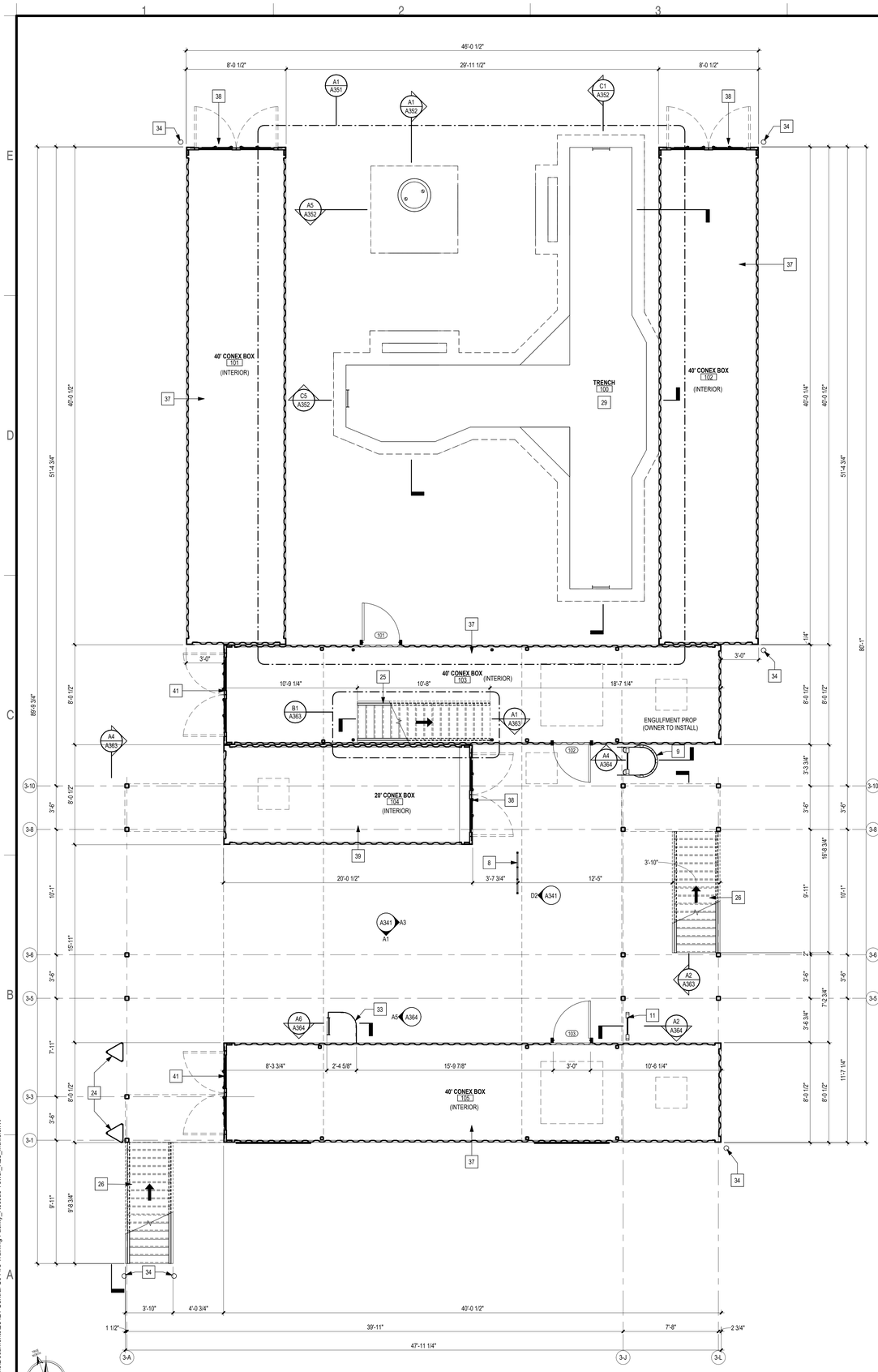
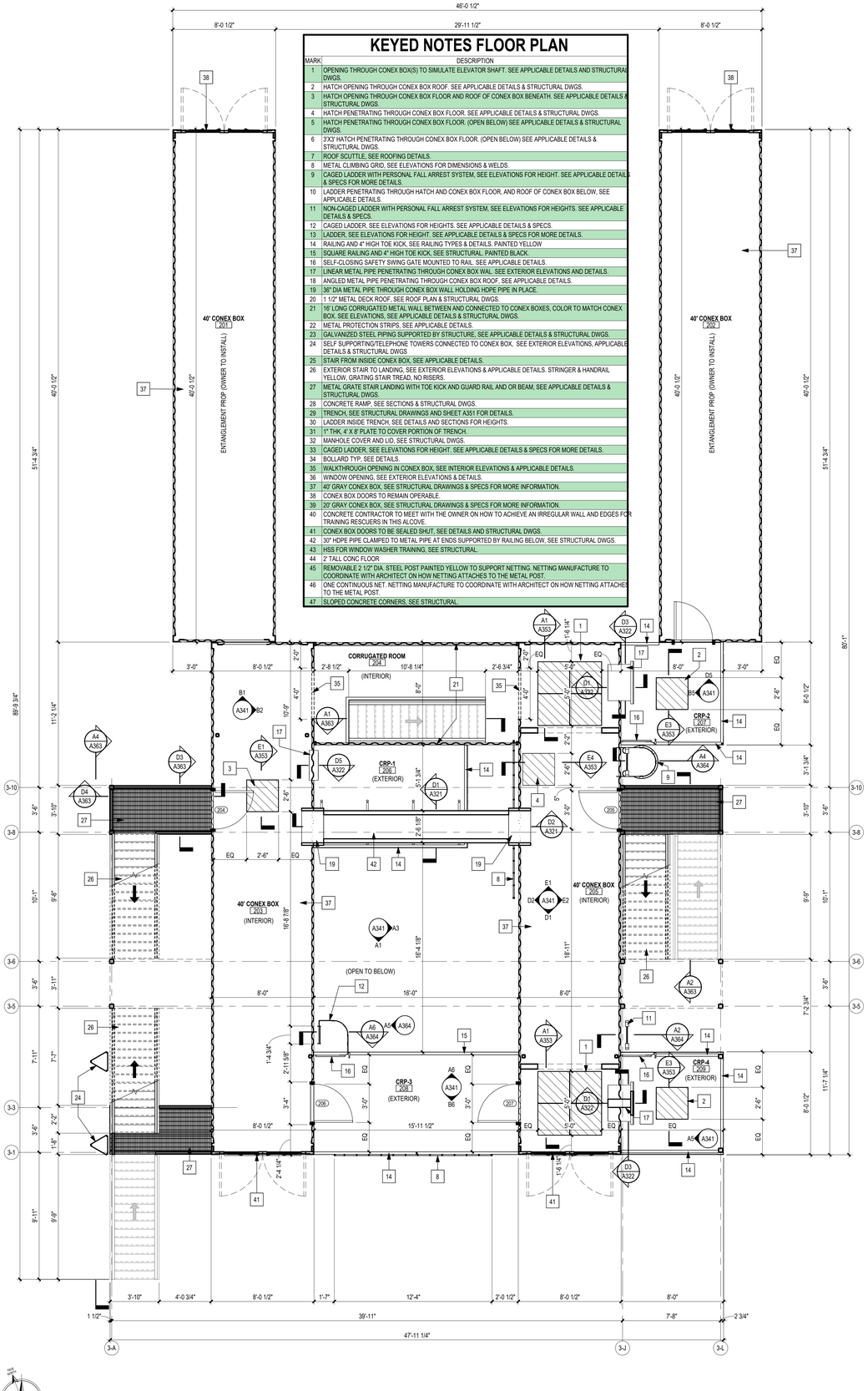


A1 GROUND FLOOR
1/4" = 1'-0"



A4 SECOND FLOOR
1/4" = 1'-0"

KEYED NOTES FLOOR PLAN

MARK	DESCRIPTION
1	OPENING THROUGH CONEX BOX(S) TO SIMULATE ELEVATOR SHAFT. SEE APPLICABLE DETAILS AND STRUCTURAL DWGS.
2	HATCH OPENING THROUGH CONEX BOX ROOF. SEE APPLICABLE DETAILS & STRUCTURAL DWGS.
3	HATCH OPENING THROUGH CONEX BOX FLOOR AND ROOF OF CONEX BOX BENEATH. SEE APPLICABLE DETAILS & STRUCTURAL DWGS.
4	HATCH PENETRATING THROUGH CONEX BOX FLOOR. SEE APPLICABLE DETAILS & STRUCTURAL DWGS.
5	HATCH PENETRATING THROUGH CONEX BOX FLOOR. (OPEN BELOW) SEE APPLICABLE DETAILS & STRUCTURAL DWGS.
6	3'X3' HATCH PENETRATING THROUGH CONEX BOX FLOOR. (OPEN BELOW) SEE APPLICABLE DETAILS & STRUCTURAL DWGS.
7	ROOF SCUTTLE. SEE ROOFING DETAILS.
8	METAL CLIMBING GRID, SEE ELEVATIONS FOR DIMENSIONS & WELDS.
9	CAGED LADDER WITH PERSONAL FALL ARREST SYSTEM. SEE ELEVATIONS FOR HEIGHT. SEE APPLICABLE DETAILS & SPECS FOR MORE DETAILS.
10	LADDER PENETRATING THROUGH HATCH AND CONEX BOX FLOOR, AND ROOF OF CONEX BOX BELOW, SEE APPLICABLE DETAILS.
11	NON-CAGED LADDER WITH PERSONAL FALL ARREST SYSTEM. SEE ELEVATIONS FOR HEIGHTS. SEE APPLICABLE DETAILS & SPECS.
12	CAGED LADDER, SEE ELEVATIONS FOR HEIGHTS. SEE APPLICABLE DETAILS & SPECS.
13	LADDER, SEE ELEVATIONS FOR HEIGHT. SEE APPLICABLE DETAILS & SPECS FOR MORE DETAILS.
14	RAILING AND 4" HIGH TOE KICK, SEE RAILING TYPES & DETAILS. PAINTED YELLOW
15	SQUARE RAILING AND 4" HIGH TOE KICK, SEE STRUCTURAL. PAINTED BLACK.
16	SELF-CLOSING SAFETY SWING GATE MOUNTED TO RAIL. SEE APPLICABLE DETAILS.
17	LINEAR METAL PIPE PENETRATING THROUGH CONEX BOX WAL. SEE EXTERIOR ELEVATIONS AND DETAILS.
18	ANGLED METAL PIPE PENETRATING THROUGH CONEX BOX ROOF. SEE APPLICABLE DETAILS.
19	36" DIA METAL PIPE THROUGH CONEX BOX WALL HOLDING HDPE PIPE IN PLACE.
20	1 1\/2" METAL DECK ROOF. SEE ROOF PLAN & STRUCTURAL DWGS.
21	16' LONG CORRUGATED METAL WALL BETWEEN AND CONNECTED TO CONEX BOXES, COLOR TO MATCH CONEX BOX. SEE ELEVATIONS. SEE APPLICABLE DETAILS & STRUCTURAL DWGS.
22	METAL PROTECTION STRIPS, SEE APPLICABLE DETAILS.
23	GALVANIZED STEEL PIPING SUPPORTED BY STRUCTURE. SEE APPLICABLE DETAILS & STRUCTURAL DWGS.
24	SELF SUPPORTING/TELEPHONE TOWERS CONNECTED TO CONEX BOX. SEE EXTERIOR ELEVATIONS, APPLICABLE DETAILS & STRUCTURAL DWGS
25	STAIR FROM INSIDE CONEX BOX, SEE APPLICABLE DETAILS.
26	EXTERIOR STAIR TO LANDING, SEE EXTERIOR ELEVATIONS & APPLICABLE DETAILS. STRINGER & HANDRAIL YELLOW, GRATING STAIR TREAD, NO RISERS.
27	METAL GRATE STAIR LANDING WITH TOE KICK AND GUARD RAIL AND OR BEAM, SEE APPLICABLE DETAILS & STRUCTURAL DWGS.
28	CONCRETE RAMP, SEE SECTIONS & STRUCTURAL DWGS.
29	TRENCH, SEE STRUCTURAL DRAWINGS AND SHEET A351 FOR DETAILS.
30	LADDER INSIDE TRENCH. SEE DETAILS AND SECTIONS FOR HEIGHTS.
31	1" THK. 4' X 8' PLATE TO COVER PORTION OF TRENCH.
32	MANHOLE COVER AND LID, SEE STRUCTURAL DWGS.
33	CAGED LADDER, SEE ELEVATIONS FOR HEIGHT. SEE APPLICABLE DETAILS & SPECS FOR MORE DETAILS.
34	BOLLARD TYP, SEE DETAILS.
35	WALKTHROUGH OPENING IN CONEX BOX, SEE INTERIOR ELEVATIONS & APPLICABLE DETAILS.
36	WINDOW OPENING, SEE EXTERIOR ELEVATIONS & DETAILS.
37	40' GRAY CONEX BOX, SEE STRUCTURAL DRAWINGS & SPECS FOR MORE INFORMATION.
38	CONEX BOX DOORS TO REMAIN OPERABLE.
39	20' GRAY CONEX BOX, SEE STRUCTURAL DRAWINGS & SPECS FOR MORE INFORMATION.
40	CONCRETE CONTRACTOR TO MEET WITH THE OWNER ON HOW TO ACHIEVE AN IRREGULAR WALL AND EDGES FOR TRAINING RESCUERS IN THIS ALCOVE.
41	CONEX BOX DOORS TO BE SEALED SHUT, SEE DETAILS AND STRUCTURAL DWGS.
42	30" HDPE PIPE CLAMPED TO METAL PIPE AT ENDS SUPPORTED BY RAILING BELOW, SEE STRUCTURAL DWGS.
43	HSS FOR WINDOW WASHER TRAINING, SEE STRUCTURAL.
44	2' TALL CONC FLOOR
45	REMOVABLE 2 1\/2" DIA. STEEL POST PAINTED YELLOW TO SUPPORT NETTING. NETTING MANUFACTURE TO COORDINATE WITH ARCHITECT ON HOW NETTING ATTACHES TO THE METAL POST.
46	ONE CONTINUOUS NET. NETTING MANUFACTURE TO COORDINATE WITH ARCHITECT ON HOW NETTING ATTACHES TO THE METAL POST.
47	SLOPED CONCRETE CORNERS, SEE STRUCTURAL.

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No.	Date	Revision

FLOOR PLANS

Project No.
23121

Sheet No.
A311

Date
09/16/2025

9/15/2025 2:25:05 PM
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SCALE: 3/32" = 1'-0" | SCALE: 1/16" = 1'-0" | SCALE: 3/64" = 1'-0" | SCALE: 1/8" = 1'-0" | SCALE: 1" = 1'-0" | SCALE: 1 1/2" = 1'-0" | SCALE: 3" = 1'-0"

KEYED NOTES FLOOR PLAN

MARK	DESCRIPTION
1	OPENING THROUGH CONEX BOX(S) TO SIMULATE ELEVATOR SHAFT. SEE APPLICABLE DETAILS AND STRUCTURAL DWGS.
2	HATCH OPENING THROUGH CONEX BOX ROOF. SEE APPLICABLE DETAILS & STRUCTURAL DWGS.
3	HATCH OPENING THROUGH CONEX BOX FLOOR AND ROOF OF CONEX BOX BENEATH. SEE APPLICABLE DETAILS & STRUCTURAL DWGS.
4	HATCH PENETRATING THROUGH CONEX BOX FLOOR. SEE APPLICABLE DETAILS & STRUCTURAL DWGS.
5	HATCH PENETRATING THROUGH CONEX BOX FLOOR. (OPEN BELOW) SEE APPLICABLE DETAILS & STRUCTURAL DWGS.
6	3'X3' HATCH PENETRATING THROUGH CONEX BOX FLOOR. (OPEN BELOW) SEE APPLICABLE DETAILS & STRUCTURAL DWGS.
7	ROOF SCUTTLE, SEE ROOFING DETAILS.
8	METAL CLIMBING GRID, SEE ELEVATIONS FOR DIMENSIONS & WELDS.
9	CAGED LADDER WITH PERSONAL FALL ARREST SYSTEM, SEE ELEVATIONS FOR HEIGHT. SEE APPLICABLE DETAILS & SPECS FOR MORE DETAILS.
10	LADDER PENETRATING THROUGH HATCH AND CONEX BOX FLOOR, AND ROOF OF CONEX BOX BELOW, SEE APPLICABLE DETAILS.
11	NON-CAGED LADDER WITH PERSONAL FALL ARREST SYSTEM, SEE ELEVATIONS FOR HEIGHTS. SEE APPLICABLE DETAILS & SPECS.
12	CAGED LADDER, SEE ELEVATIONS FOR HEIGHTS. SEE APPLICABLE DETAILS & SPECS.
13	LADDER, SEE ELEVATIONS FOR HEIGHT. SEE APPLICABLE DETAILS & SPECS FOR MORE DETAILS.
14	RAILING AND 4" HIGH TOE KICK, SEE RAILING TYPES & DETAILS. PAINTED YELLOW
15	SQUARE RAILING AND 4" HIGH TOE KICK, SEE STRUCTURAL. PAINTED BLACK.
16	SELF-CLOSING SAFETY SWING GATE MOUNTED TO RAIL. SEE APPLICABLE DETAILS.
17	LINEAR METAL PIPE PENETRATING THROUGH CONEX BOX WAL. SEE EXTERIOR ELEVATIONS AND DETAILS.
18	ANGLED METAL PIPE PENETRATING THROUGH CONEX BOX ROOF, SEE APPLICABLE DETAILS.
19	36" DIA METAL PIPE THROUGH CONEX BOX WALL HOLDING HDPE PIPE IN PLACE.
20	1 1/2" METAL DECK ROOF, SEE ROOF PLAN & STRUCTURAL DWGS.
21	16' LONG CORRUGATED METAL WALL BETWEEN AND CONNECTED TO CONEX BOXES, COLOR TO MATCH CONEX BOX. SEE ELEVATIONS, SEE APPLICABLE DETAILS & STRUCTURAL DWGS.
22	METAL PROTECTION STRIPS, SEE APPLICABLE DETAILS.
23	GALVANIZED STEEL PIPING SUPPORTED BY STRUCTURE, SEE APPLICABLE DETAILS & STRUCTURAL DWGS.
24	SELF SUPPORTING/TELEPHONE TOWERS CONNECTED TO CONEX BOX. SEE EXTERIOR ELEVATIONS, APPLICABLE DETAILS & STRUCTURAL DWGS
25	STAIR FROM INSIDE CONEX BOX, SEE APPLICABLE DETAILS.
26	EXTERIOR STAIR TO LANDING, SEE EXTERIOR ELEVATIONS & APPLICABLE DETAILS. STRINGER & HANDRAIL YELLOW, GRATING STAIR TREAD, NO RISERS.
27	METAL GRATE STAIR LANDING WITH TOE KICK AND GUARD RAIL AND OR BEAM, SEE APPLICABLE DETAILS & STRUCTURAL DWGS.
28	CONCRETE RAMP, SEE SECTIONS & STRUCTURAL DWGS.
29	TRENCH, SEE STRUCTURAL DRAWINGS AND SHEET A351 FOR DETAILS.
30	LADDER INSIDE TRENCH, SEE DETAILS AND SECTIONS FOR HEIGHTS.
31	1"-THK, 4' X 8' PLATE TO COVER PORTION OF TRENCH.
32	MANHOLE COVER AND LID, SEE STRUCTURAL DWGS.
33	CAGED LADDER, SEE ELEVATIONS FOR HEIGHT. SEE APPLICABLE DETAILS & SPECS FOR MORE DETAILS.
34	BOLLARD TYP, SEE DETAILS.
35	WALKTHROUGH OPENING IN CONEX BOX. SEE INTERIOR ELEVATIONS & APPLICABLE DETAILS.
36	WINDOW OPENING, SEE EXTERIOR ELEVATIONS & DETAILS.
37	40' GRAY CONEX BOX, SEE STRUCTURAL DRAWINGS & SPECS FOR MORE INFORMATION.
38	CONEX BOX DOORS TO REMAIN OPERABLE.
39	20' GRAY CONEX BOX, SEE STRUCTURAL DRAWINGS & SPECS FOR MORE INFORMATION.
40	CONCRETE CONTRACTOR TO MEET WITH THE OWNER ON HOW TO ACHIEVE AN IRREGULAR WALL AND EDGES FOR TRAINING RESCUERS IN THIS ALCOVE.
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42	30" HDPE PIPE CLAMPED TO METAL PIPE AT ENDS SUPPORTED BY RAILING BELOW, SEE STRUCTURAL DWGS.
43	HSS FOR WINDOW WASHER TRAINING, SEE STRUCTURAL.
44	2' TALL CONC FLOOR
45	REMOVABLE 2 1/2" DIA. STEEL POST PAINTED YELLOW TO SUPPORT NETTING. NETTING MANUFACTURE TO COORDINATE WITH ARCHITECT ON HOW NETTING ATTACHES TO THE METAL POST.
46	ONE CONTINUOUS NET. NETTING MANUFACTURE TO COORDINATE WITH ARCHITECT ON HOW NETTING ATTACHES TO THE METAL POST.
47	SLOPED CONCRETE CORNERS, SEE STRUCTURAL.

A1 THIRD FLOOR
1/4" = 1'-0"

A4 FOURTH FLOOR
1/4" = 1'-0"

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No.	Date	Revision

FLOOR PLANS

Project No. 23121

Sheet No. A312

Date 09/16/2025

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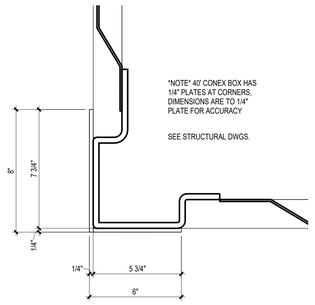
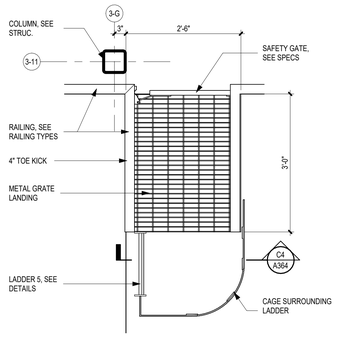
FLOOR PLAN GENERAL NOTES

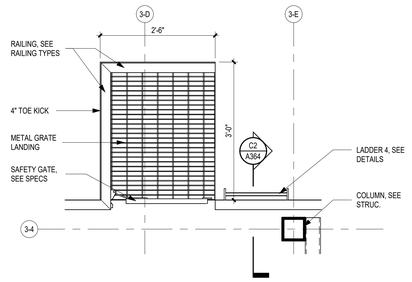
1. REFERENCE GENERAL NOTES FOR ADDITIONAL APPLICABLE INFORMATION.
2. THE GENERAL CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS AND DIMENSIONS AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES THAT MAY AFFECT THE WORK PRIOR TO COMMENCING CONSTRUCTION.
3. ALL OVERALL DIMENSIONS ARE TO THE OUTER MOST CORNER OF CONEX BOX.
4. PATCH, LEVEL, AND/OR FEATHER THE EXISTING FLOOR SUCH THAT THE NEW FLOOR IS LEVEL AND ALL TRANSITIONS ARE LEVEL AND SMOOTH.
5. INSTALL REDUCER STRIPS BETWEEN DIFFERENT FLOOR FINISH LEVELS AND FINISHES AS REQUIRED.
6. THE GENERAL CONTRACTOR SHALL INSTALL REQUIRED WALL BLOCKING FOR ALL EQUIPMENT. SEE DRAWINGS FOR EXACT LOCATIONS.
7. UNLESS NOTED OTHERWISE, ALL MATERIALS AND EQUIPMENT SHOWN ON THE DRAWINGS OTHER THAN THE EXISTING IS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
8. ALL ITEMS TO BE RELOCATED AND REUSED ARE TO BE STORED BY THE CONTRACTOR UNTIL REINSTALLATION. PROTECT FROM DAMAGE THROUGHOUT CONSTRUCTION.
9. MAINTAIN ALL NECESSARY COMMUNICATIONS AND FIRE PROTECTION SYSTEMS, EXISTING REQUIRED EXITS, EXIT CORRIDORS, AND ITEMS AFFECTING THE HEALTH AND SAFETY OF ALL OCCUPANTS AT ALL TIMES THROUGHOUT CONSTRUCTION.
10. MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION WORK TO BE DESIGN-BUILD. INTENT OF THIS WORK IS REFLECTED ON THE DRAWINGS. IF SUCH WORK IS OUTSIDE OF THE PROJECT AREA, CONTACT THE OWNER FOR RESTRICTIONS THAT MAY APPLY TO THOSE AREAS AND COORDINATE AND SCHEDULE ALL WORK. PROTECT ADJACENT AREAS, EQUIPMENT, ETC.
11. ALL BLOCKING SHALL BE FIRE TREATED.



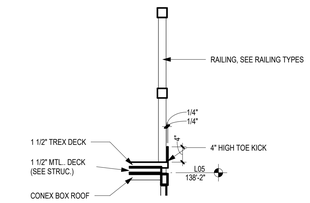
D2 CONEX BOX CORNER - PLAN
3" = 1'-0"



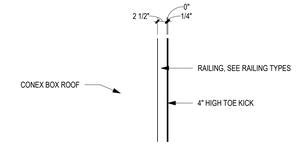
D3 ENLARGED PLAN @ LADDER 5
3/4" = 1'-0"



C3 ENLARGED PLAN @ LADDER 4
3/4" = 1'-0"



E5 SECTION @ CONEX BOX ROOF EDGE
3/4" = 1'-0"



D5 ENLG. PLAN @ CONEX BOX ROOF EDGE
3/4" = 1'-0"

KEYED NOTES FLOOR PLAN

MARK	DESCRIPTION
1	OPENING THROUGH CONEX BOX(S) TO SIMULATE ELEVATOR SHAFT. SEE APPLICABLE DETAILS AND STRUCTURAL DWGS.
2	HATCH OPENING THROUGH CONEX BOX ROOF. SEE APPLICABLE DETAILS & STRUCTURAL DWGS.
3	HATCH OPENING THROUGH CONEX BOX FLOOR AND ROOF OF CONEX BOX BENEATH. SEE APPLICABLE DETAILS & STRUCTURAL DWGS.
4	HATCH PENETRATING THROUGH CONEX BOX FLOOR. SEE APPLICABLE DETAILS & STRUCTURAL DWGS.
5	HATCH PENETRATING THROUGH CONEX BOX FLOOR. (OPEN BELOW) SEE APPLICABLE DETAILS & STRUCTURAL DWGS.
6	3'X3' HATCH PENETRATING THROUGH CONEX BOX FLOOR. (OPEN BELOW) SEE APPLICABLE DETAILS & STRUCTURAL DWGS.
7	ROOF SCUTTLE, SEE ROOFING DETAILS.
8	METAL CLIMBING GRID, SEE ELEVATIONS FOR DIMENSIONS & WELDS.
9	CAGED LADDER WITH PERSONAL FALL ARREST SYSTEM, SEE ELEVATIONS FOR HEIGHT. SEE APPLICABLE DETAILS & SPECS FOR MORE DETAILS.
10	LADDER PENETRATING THROUGH HATCH AND CONEX BOX FLOOR, AND ROOF OF CONEX BOX BELOW, SEE APPLICABLE DETAILS.
11	NON-CAGED LADDER WITH PERSONAL FALL ARREST SYSTEM, SEE ELEVATIONS FOR HEIGHTS. SEE APPLICABLE DETAILS & SPECS.
12	CAGED LADDER, SEE ELEVATIONS FOR HEIGHTS. SEE APPLICABLE DETAILS & SPECS.
13	LADDER, SEE ELEVATIONS FOR HEIGHT. SEE APPLICABLE DETAILS & SPECS FOR MORE DETAILS.
14	RAILING AND 4" HIGH TOE KICK, SEE RAILING TYPES & DETAILS. PAINTED YELLOW
15	SQUARE RAILING AND 4" HIGH TOE KICK, SEE STRUCTURAL. PAINTED BLACK.
16	SELF-CLOSING SAFETY SWING GATE MOUNTED TO RAIL. SEE APPLICABLE DETAILS.
17	LINEAR METAL PIPE PENETRATING THROUGH CONEX BOX WAL. SEE EXTERIOR ELEVATIONS AND DETAILS.
18	ANGLED METAL PIPE PENETRATING THROUGH CONEX BOX ROOF, SEE APPLICABLE DETAILS.
19	30" DIA METAL PIPE THROUGH CONEX BOX WALL HOLDING HDPE PIPE IN PLACE.
20	1 1/2" METAL DECK ROOF. SEE ROOF PLAN & STRUCTURAL DWGS.
21	16' LONG CORRUGATED METAL WALL BETWEEN AND CONNECTED TO CONEX BOXES. COLOR TO MATCH CONEX BOX. SEE ELEVATIONS, SEE APPLICABLE DETAILS & STRUCTURAL DWGS.
22	METAL PROTECTION STRIPS, SEE APPLICABLE DETAILS.
23	GALVANIZED STEEL PIPING SUPPORTED BY STRUCTURE, SEE APPLICABLE DETAILS & STRUCTURAL DWGS.
24	SELF SUPPORTING/TELEPHONE TOWERS CONNECTED TO CONEX BOX. SEE EXTERIOR ELEVATIONS, APPLICABLE DETAILS & STRUCTURAL DWGS
25	STAIR FROM INSIDE CONEX BOX. SEE APPLICABLE DETAILS.
26	EXTERIOR STAIR TO LANDING, SEE EXTERIOR ELEVATIONS & APPLICABLE DETAILS. STRINGER & HANDRAIL YELLOW, GRATING STAIR TREAD, NO RISERS.
27	METAL GRATE STAIR LANDING WITH TOE KICK AND GUARD RAIL AND OR BEAM, SEE APPLICABLE DETAILS & STRUCTURAL DWGS.
28	CONCRETE RAMP, SEE SECTIONS & STRUCTURAL DWGS.
29	TRENCH, SEE STRUCTURAL DRAWINGS AND SHEET A351 FOR DETAILS.
30	LADDER INSIDE TRENCH. SEE DETAILS AND SECTIONS FOR HEIGHTS.
31	1" THK, 4' X 8' PLATE TO COVER PORTION OF TRENCH.
32	MANHOLE COVER AND LID, SEE STRUCTURAL DWGS.
33	CAGED LADDER, SEE ELEVATIONS FOR HEIGHT. SEE APPLICABLE DETAILS & SPECS FOR MORE DETAILS.
34	BOLLARD TYP. SEE DETAILS.
35	WALKTHROUGH OPENING IN CONEX BOX, SEE INTERIOR ELEVATIONS & APPLICABLE DETAILS.
36	WINDOW OPENING, SEE EXTERIOR ELEVATIONS & DETAILS.
37	40' GRAY CONEX BOX, SEE STRUCTURAL DRAWINGS & SPECS FOR MORE INFORMATION.
38	CONEX BOX DOORS TO REMAIN OPERABLE.
39	20' GRAY CONEX BOX, SEE STRUCTURAL DRAWINGS & SPECS FOR MORE INFORMATION.
40	CONCRETE CONTRACTOR TO MEET WITH THE OWNER ON HOW TO ACHIEVE AN IRREGULAR WALL AND EDGES FOR TRAINING RESCUERS IN THIS ALCOVE.
41	CONEX BOX DOORS TO BE SEALED SHUT, SEE DETAILS AND STRUCTURAL DWGS.
42	30" HDPE PIPE CLAMPED TO METAL PIPE AT ENDS SUPPORTED BY RAILING BELOW, SEE STRUCTURAL DWGS.
43	HSS FOR WINDOW WASHER TRAINING, SEE STRUCTURAL.
44	2' TALL CONC FLOOR
45	REMOVABLE 2 1/2" DIA. STEEL POST PAINTED YELLOW TO SUPPORT NETTING. NETTING MANUFACTURE TO COORDINATE WITH ARCHITECT ON HOW NETTING ATTACHES TO THE METAL POST.
46	ONE CONTINUOUS NET. NETTING MANUFACTURE TO COORDINATE WITH ARCHITECT ON HOW NETTING ATTACHES TO THE METAL POST.
47	SLOPED CONCRETE CORNERS, SEE STRUCTURAL.

5 FIFTH FLOOR
1/4" = 1'-0"

6 SIXTH FLOOR
1/4" = 1'-0"

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360/340 ECOLOGY DRIVE

No.	Date	Revision

FLOOR PLANS

Project No. 23121

Sheet No. A313

Date 09/16/2025

SCALE: 3" = 1'-0" | SCALE: 1 1/2" = 1'-0" | SCALE: 1" = 1'-0" | SCALE: 3/4" = 1'-0" | SCALE: 1/2" = 1'-0" | SCALE: 3/8" = 1'-0" | SCALE: 1/4" = 1'-0" | SCALE: 1/8" = 1'-0" | SCALE: 3/32" = 1'-0" | SCALE: 1/16" = 1'-0"

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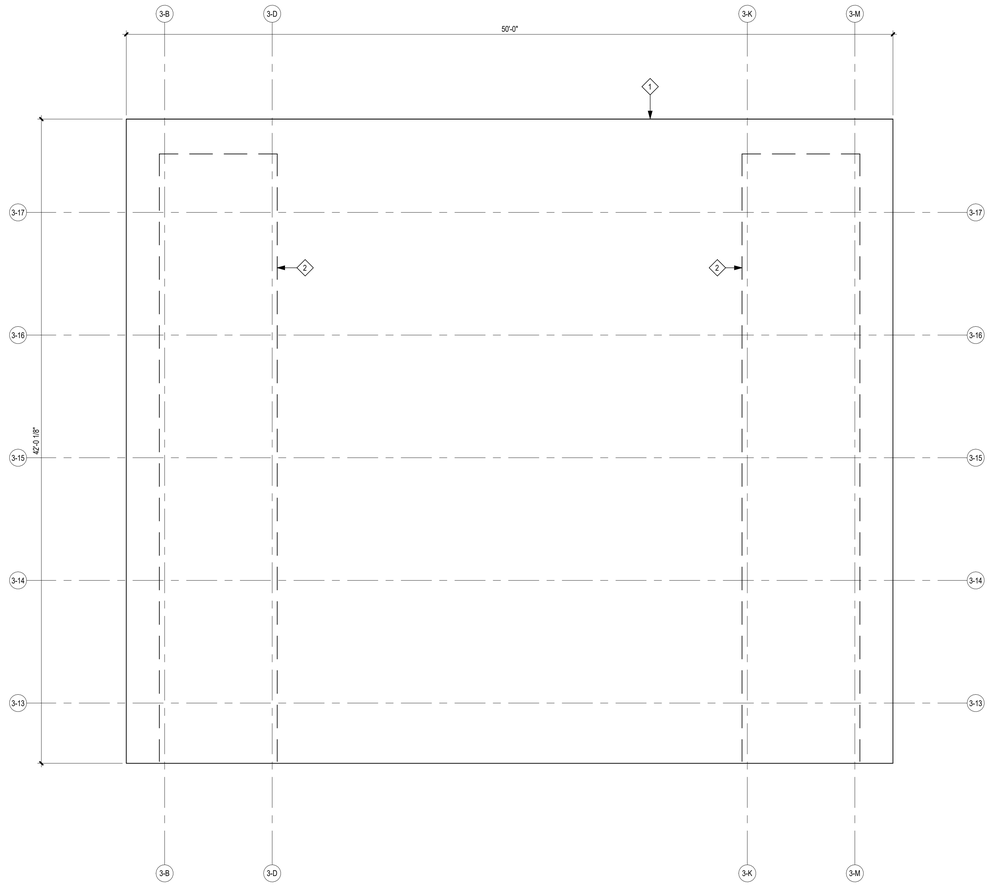
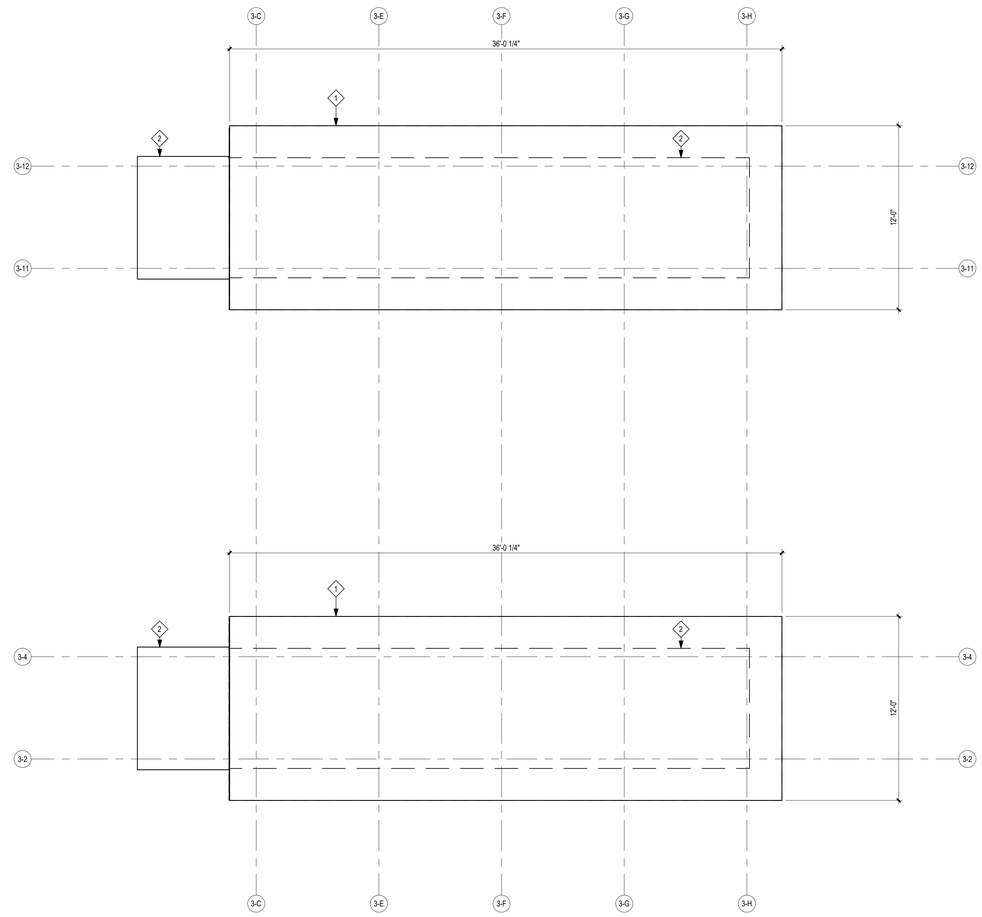
KEYED NOTES ROOF PLAN

MARK	DESCRIPTION
1	1 1/2" METAL DECK ROOF, SEE STRUCTURAL DWGS.
2	CONEX BOX BELOW, SEE EXTERIOR ELEVATIONS



A1 TRENCH ROOF PLAN
1/4" = 1'-0"



A4 TOWER ROOF PLAN
1/4" = 1'-0"

ROOF PLAN GENERAL NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL PENETRATIONS WITH ALL MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT AND TRADES..
2. REFER TO STRUCTURAL DRAWINGS ROOF REQUIREMENTS.
3. SEE APPLICABLE UL ASSEMBLIES AS DESCRIBED ELSEWHERE IN THESE DRAWINGS FOR REQUIREMENTS DESCRIBED THEREIN. UL REQUIREMENTS OR DETAILING SHALL TAKE PRECEDENCE SHOULD ANY DISCREPANCIES ARISE.
4. GENERAL CONTRACTOR SHALL ENSURE DESIGN VENTILATION REQUIREMENT DESCRIBED HEREIN TO BE MET IF SUBSTITUTIONS OF MATERIAL TYPES AND QUANTITIES ARE SUBMITTED AND APPROVED BY THE ARCHITECT. GC ASSUMES RESPONSIBILITY FOR TYPE, LOCATION, ARRANGEMENT AND QUANTITIES FOR MEETING THESE REQUIREMENTS.

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No.	Date	Revision

ROOF PLAN

Project No. 23121

Sheet No. A315

Date 09/16/2025

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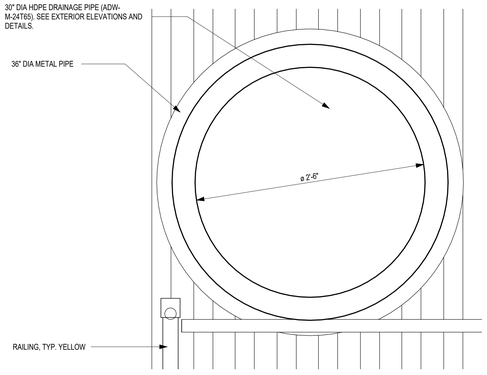

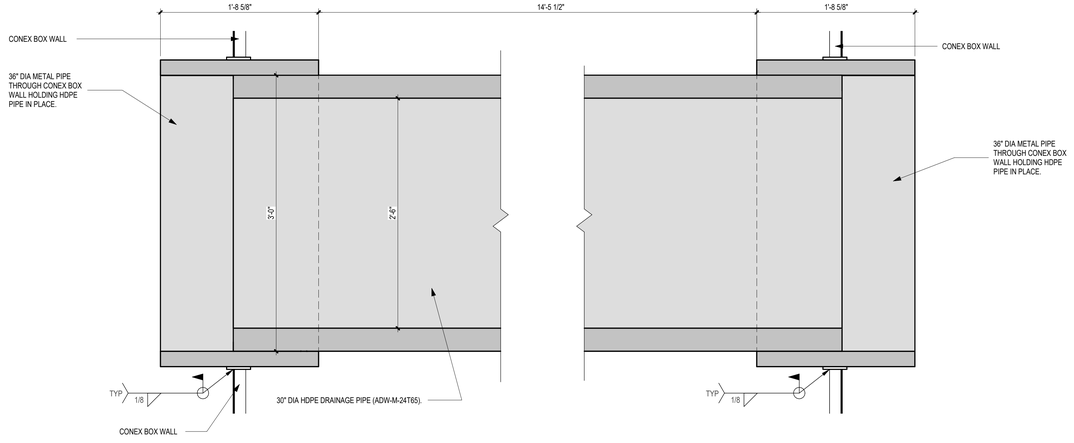

KEYED NOTES EXTERIOR ELEV.

MARK	DESCRIPTION
1	8' x 6' DIAMOND PLATE WELDED TO CONEX BOX.
2	SELF SUPPORTING/TELEPHONE TOWERS CONNECTED TO CONEX BOX, APPLICABLE DETAILS & STRUCTURAL DWGS.
3	METAL CLIMBING GRID, SEE ELEVATIONS FOR DIMENSIONS & STRUCTU DWGS.
5	1 1/2" METAL DECK ROOF. SEE ROOF PLAN & STRUCTURAL DWGS.
6	LINEAR METAL PIPE PENETRATING THROUGH CONEX BOX WAL. SEE APPLICABLE DETAILS.
8	40' CONEX BOX, SEE STRUCTURAL DRAWINGS & SPECS FOR MORE INFORMATION.
9	ROOF SCUTTLE, SEE ROOFING DETAILS.
10	LADDER, SEE ELEVATIONS FOR HEIGHT. SEE APPLICABLE DETAILS & SPECS FOR MORE DETAILS.
11	ANGLED METAL PIPE PENETRATING THROUGH CONEX BOX ROOF, SEE APPLICABLE DETAILS.
12	TYP. METAL RAILING, SEE APPLICABLE DETAILS.
13	CAGED LADDER, SEE ELEVATIONS FOR HEIGHT. SEE APPLICABLE DETAILS & SPECS FOR MORE DETAILS.
14	SELF-CLOSING SAFETY SWING GATE MOUNTED TO RAIL. SEE APPLICABLE DETAILS AND STRUCTURAL DWGS.
15	STRUCTURAL COLUMN, SEE STRUCTURAL DWGS.
16	WALL HATCH, SEE DIMENSIONS, SHEET A361 & STRUCTURAL DWGS.
17	GALVANIZED STEEL PIPING SUPPORTED BY STRUCTURE, SEE APPLICABLE DETAILS & STRUCTURAL DWGS.
18	EXTERIOR STAIR TO LANDING, SEE STRUCTURAL DWGS & APPLICABLE DETAI
19	LINEAR CORRUGATED HDPE PENETRATING THROUGH CONEX BOX WAL. SEE EXTERIOR ELEVATIONS AND DETAILS.
20	20' CONEX BOX, SEE STRUCTURAL DRAWINGS & SPECS FOR MORE INFORMATION.
21	METAL GRATE STAIR LANDING WITH TOE KICK AND GUARD RAIL AND OR BEAI SEE APPLICABLE DETAILS & STRUCTURAL DWGS.
22	NON-CAGED LADDER WITH PERSONAL FALL ARREST SYSTEM, SEE ELEVATIO FOR HEIGHTS. SEE APPLICABLE DETAILS & SPECS.
23	CAGED LADDER WITH PERSONAL FALL ARREST SYSTEM, SEE ELEVATIONS FO HEIGHT. SEE APPLICABLE DETAILS & SPECS FOR MORE DETAILS.
24	16' CORRUGATED METAL WALL BETWEEN AND CONNECTED TO CONEX BOXE SEE ELEVATIONS. SEE APPLICABLE DETAILS & STRUCTURAL DWGS.
25	SQUARE RAILING AND 4" HIGH TOE KICK, SEE STRUCTURAL.

D1 SECTION NORTH TO SOUTH THROUGH HDPE PIPE
1 1/2" = 1'-0"

D2 SECTION EAST TO WEST THROUGH HDPE PIPE
1 1/2" = 1'-0"

A1 NORTH ELEVATION
1/4" = 1'-0"

A4 SOUTH ELEVATION
1/4" = 1'-0"

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Proposed:
CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE
ST. PETERS, MO 63376
360/340 ECOLOGY DRIVE

No.	Date	Revision

EXTERIOR ELEVATIONS

Project No.
23121

Sheet No.
A321

Date
09/16/2025

9/11/2025 10:10:02 AM
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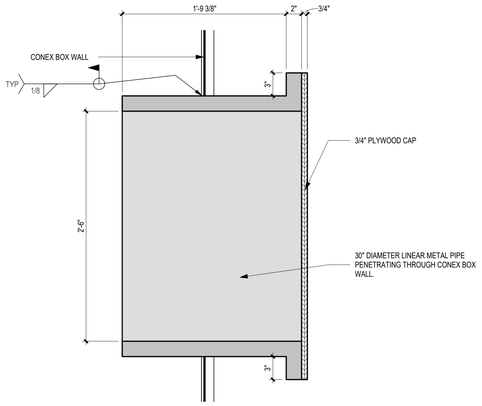
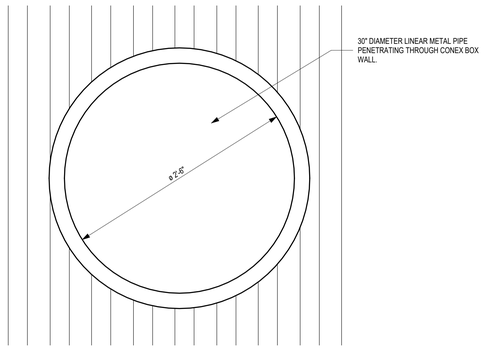
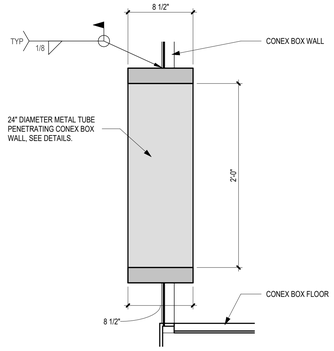


D1 SIDE VIEW TUBE THROUGH CONEX BOX WALL
1 1/2" = 1'-0"



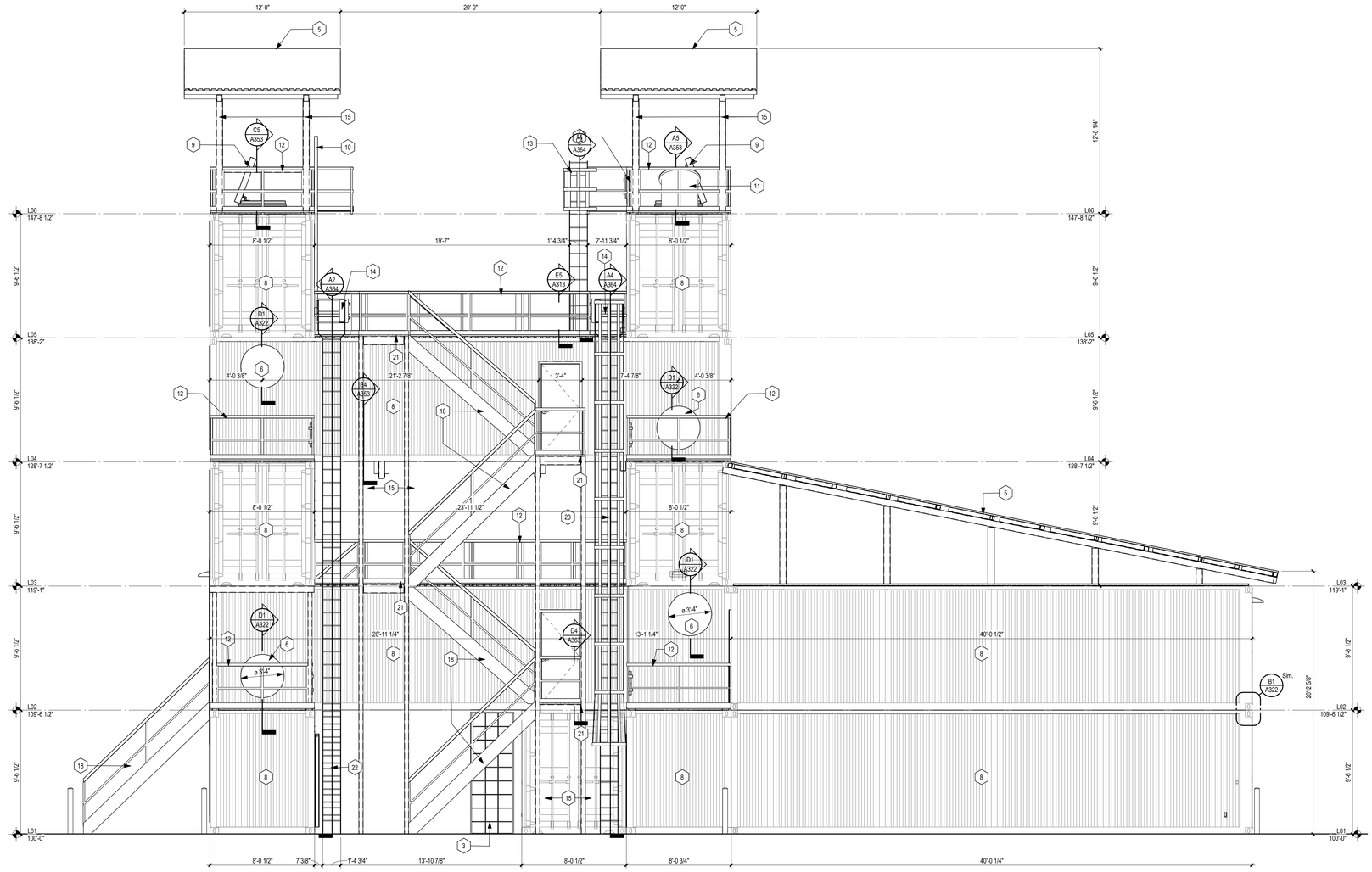
D3 FRONT VIEW TUBE THROUGH CONEX BOX WALL
1 1/2" = 1'-0"



D5 SECOND FLOOR WALL TUBE WITHOUT CAP
1 1/2" = 1'-0"

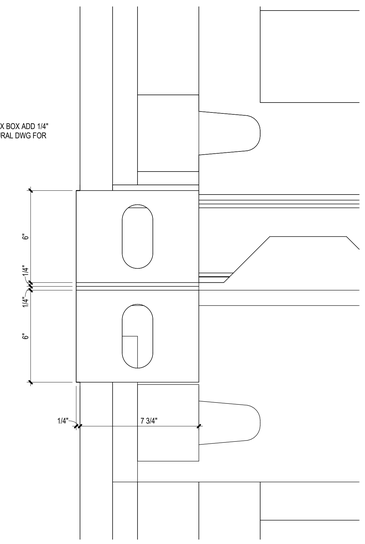
KEYED NOTES EXTERIOR ELEV.

MARK	DESCRIPTION
1	8' x 8' DIAMOND PLATE WELDED TO CONEX BOX.
2	SELF SUPPORTING/TELEPHONE TOWERS CONNECTED TO CONEX BOX, APPLICABLE DETAILS & STRUCTURAL DWGS.
3	METAL CLIMBING GRID, SEE ELEVATIONS FOR DIMENSIONS & STRUCTU DWGS.
5	1 1/2" METAL DECK ROOF. SEE ROOF PLAN & STRUCTURAL DWGS.
6	LINEAR METAL PIPE PENETRATING THROUGH CONEX BOX WAL. SEE APPLICABLE DETAILS.
8	40' CONEX BOX, SEE STRUCTURAL DRAWINGS & SPECS FOR MORE INFORMATION.
9	ROOF SCUTTLE, SEE ROOFING DETAILS.
10	LADDER, SEE ELEVATIONS FOR HEIGHT. SEE APPLICABLE DETAILS & SPECS FOR MORE DETAILS.
11	ANGLED METAL PIPE PENETRATING THROUGH CONEX BOX ROOF, SEE APPLICABLE DETAILS.
12	TYP METAL RAILING, SEE APPLICABLE DETAILS.
13	CAGED LADDER, SEE ELEVATIONS FOR HEIGHT. SEE APPLICABLE DETAILS & SPECS FOR MORE DETAILS.
14	SELF-CLOSING SAFETY SWING GATE MOUNTED TO RAIL. SEE APPLICABLE DETAILS AND STRUCTURAL DWGS.
15	STRUCTURAL COLUMN, SEE STRUCTURAL DWGS.
16	WALL HATCH, SEE DIMENSIONS, SHEET A361 & STRUCTURAL DWGS.
17	GALVANIZED STEEL PIPING SUPPORTED BY STRUCTURE, SEE APPLICABLE DETAILS & STRUCTURAL DWGS.
18	EXTERIOR STAIR TO LANDING, SEE STRUCTURAL DWGS & APPLICABLE DETAI
19	LINEAR CORRUGATED HDPE PENETRATING THROUGH CONEX BOX WAL. SEE EXTERIOR ELEVATIONS AND DETAILS.
20	20' CONEX BOX, SEE STRUCTURAL DRAWINGS & SPECS FOR MORE INFORMATION.
21	METAL GRATE STAIR LANDING WITH TOE KICK AND GUARD RAIL AND OR BEAI SEE APPLICABLE DETAILS & STRUCTURAL DWGS.
22	NON-CAGED LADDER WITH PERSONAL FALL ARREST SYSTEM, SEE ELEVATIO FOR HEIGHTS. SEE APPLICABLE DETAILS & SPECS.
23	CAGED LADDER WITH PERSONAL FALL ARREST SYSTEM, SEE ELEVATIONS FO HEIGHT. SEE APPLICABLE DETAILS & SPECS FOR MORE DETAILS.
24	16" CORRUGATED METAL WALL BETWEEN AND CONNECTED TO CONEX BOXE SEE ELEVATIONS. SEE APPLICABLE DETAILS & STRUCTURAL DWGS.
25	SQUARE RAILING AND 4" HIGH TOE KICK, SEE STRUCTURAL.



A1 EAST ELEVATION
1/4" = 1'-0"

NOTE: CORNER PLATES ON CONEX BOX ADD 1/4" TO TOTAL LENGTH, SEE STRUCTURAL DWG FOR MORE DETAIL



B1 CONEX BOX CORNER
3" = 1'-0"

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Proposed:
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380/340 ECOLOGY DRIVE
ST. PETERS, MO 63376

No.	Date	Revision
1		

EXTERIOR ELEVATIONS

Project No.
23121

Sheet No.
A322

Date
09/16/2025

9/11/2025 10:10:04 AM
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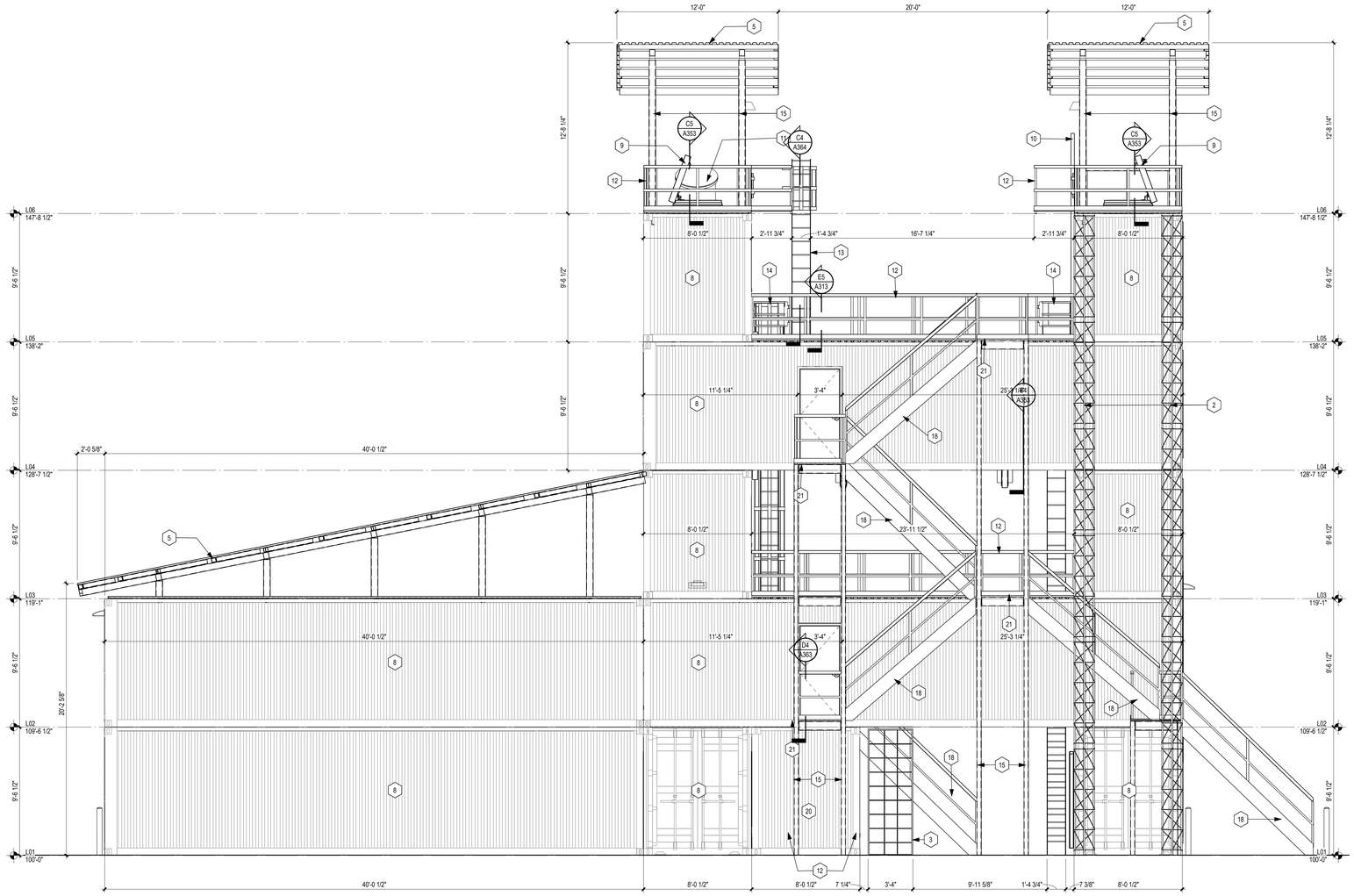
KEYED NOTES EXTERIOR ELEV.

MARK	DESCRIPTION
1	8' x 6' DIAMOND PLATE WELDED TO CONEX BOX.
2	SELF SUPPORTING/TELEPHONE TOWERS CONNECTED TO CONEX BOX, APPLICABLE DETAILS & STRUCTURAL DWGS.
3	METAL CLIMBING GRID, SEE ELEVATIONS FOR DIMENSIONS & STRUCTU DWGS.
5	1 1/2" METAL DECK ROOF. SEE ROOF PLAN & STRUCTURAL DWGS.
6	LINEAR METAL PIPE PENETRATING THROUGH CONEX BOX WAL. SEE APPLICABLE DETAILS.
8	40' CONEX BOX, SEE STRUCTURAL DRAWINGS & SPECS FOR MORE INFORMATION.
9	ROOF SCUTTLE, SEE ROOFING DETAILS.
10	LADDER, SEE ELEVATIONS FOR HEIGHT. SEE APPLICABLE DETAILS & SPECS FOR MORE DETAILS.
11	ANGLED METAL PIPE PENETRATING THROUGH CONEX BOX ROOF, SEE APPLICABLE DETAILS.
12	TYP. METAL RAILING, SEE APPLICABLE DETAILS.
13	CAGED LADDER, SEE ELEVATIONS FOR HEIGHT. SEE APPLICABLE DETAILS & SPECS FOR MORE DETAILS.
14	SELF-CLOSING SAFETY SWING GATE MOUNTED TO RAIL. SEE APPLICABLE DETAILS AND STRUCTURAL DWGS.
15	STRUCTURAL COLUMN, SEE STRUCTURAL DWGS.
16	WALL HATCH, SEE DIMENSIONS, SHEET A361 & STRUCTURAL DWGS.
17	GALVANIZED STEEL PIPING SUPPORTED BY STRUCTURE, SEE APPLICABLE DETAILS & STRUCTURAL DWGS.
18	EXTERIOR STAIR TO LANDING, SEE STRUCTURAL DWGS & APPLICABLE DETAILS
19	LINEAR CORRUGATED HDPE PENETRATING THROUGH CONEX BOX WAL. SEE EXTERIOR ELEVATIONS AND DETAILS.
20	20' CONEX BOX, SEE STRUCTURAL DRAWINGS & SPECS FOR MORE INFORMATION.
21	METAL GRATE STAIR LANDING WITH TOE KICK AND GUARD RAIL AND OR BEAM, SEE APPLICABLE DETAILS & STRUCTURAL DWGS.
22	NON-CAGED LADDER WITH PERSONAL FALL ARREST SYSTEM, SEE ELEVATIONS FOR HEIGHTS. SEE APPLICABLE DETAILS & SPECS.
23	CAGED LADDER WITH PERSONAL FALL ARREST SYSTEM, SEE ELEVATIONS FOR HEIGHT. SEE APPLICABLE DETAILS & SPECS FOR MORE DETAILS.
24	16' CORRUGATED METAL WALL BETWEEN AND CONNECTED TO CONEX BOXES, SEE ELEVATIONS, SEE APPLICABLE DETAILS & STRUCTURAL DWGS.
25	SQUARE RAILING AND 4" HIGH TOE KICK, SEE STRUCTURAL.



A1 WEST ELEVATION
1/4" = 1'-0"

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360/340 ECOLOGY DRIVE

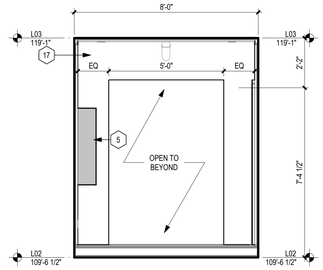
No.	Date	Revision

EXTERIOR ELEVATIONS

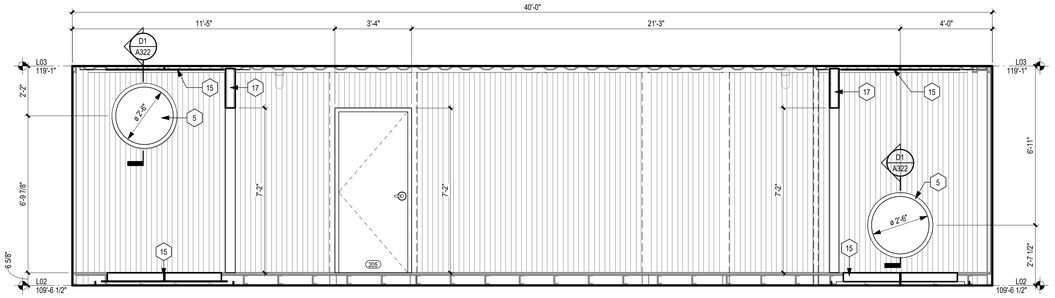
Project No. 23121

Sheet No. A323

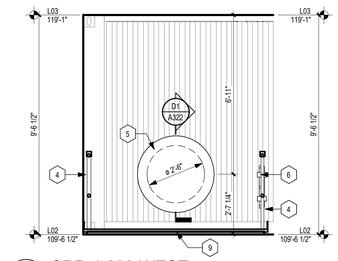
Date 09/16/2025



E1 CONEX BOX 205 NORTH
3/8" = 1'-0"



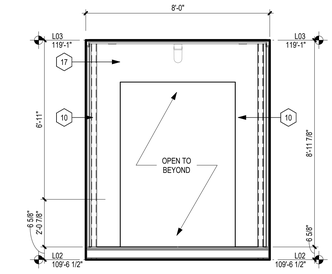
E2 CONEX BOX 205 EAST
3/8" = 1'-0"



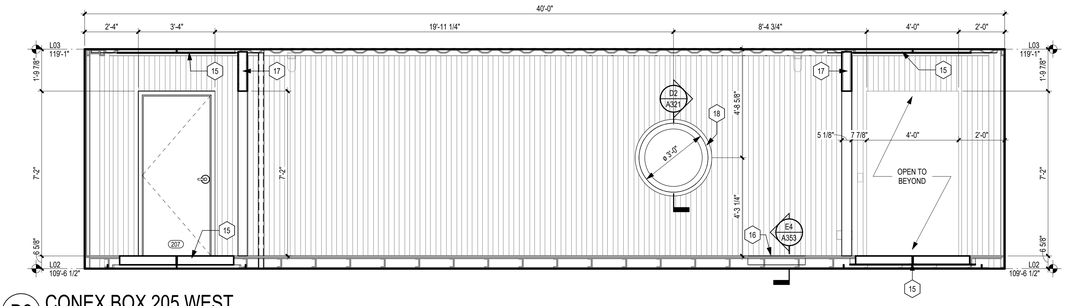
A5 CRP-4 209 WEST
3/8" = 1'-0"

MARK	DESCRIPTION
1	METAL CLIMBING GRID, SEE ELEVATIONS FOR DIMENSIONS & STRUCTURAL DWGS.
2	ANGLED METAL PIPE PENETRATING THROUGH CONEX BOX ROOF WITH EXTERIOR SIDE, SEE APPLICABLE DETAILS.
3	1 1/2" METAL DECK ROOF, SEE ROOF PLAN & STRUCTURAL DWGS.
4	RAILING, SEE PLANS FOR TYPE
5	30" Ø STEEL PIPE PENETRATING THROUGH CONEX BOX WALL WITH CAP EXTERIOR SIDE. SEE APPLICABLE DETAILS.
6	SELF-CLOSING SAFETY SWING GATE MOUNTED TO RAIL. SEE APPLICAB DETAILS AND STRUCTURAL DWGS.
8	ROOF SCUTTLE, SEE ROOFING DETAILS.
9	TYP. HATCH THROUGH CONEX BOX ROOF. SEE APPLICABLE DETAILS, AND STRUCTURAL DWGS.
10	STRUCTURAL COLUMN, SEE STRUCTURAL DWGS.
11	WALL HATCH, SEE SHEET A361
13	NON-CAGED LADDER WITH PERSONAL FALL ARREST SYSTEM, SEE ELEVATIONS FOR HEIGHTS. SEE APPLICABLE DETAILS & SPECS.
14	CAGED LADDER WITH PERSONAL FALL ARREST SYSTEM, SEE ELEVATIONS FOR HEIGHT. SEE APPLICABLE DETAILS & SPECS FOR MORE DETAILS.
15	PENETRATION THROUGH CONEX(S) BOX FLOOR TO SIMULATE ELEVATOR SHAFT, SEE APPLICABLE DETAILS AND STRUCTURAL DWGS.
16	TYP. HATCH THROUGH CONEX BOX FLOOR. SEE APPLICABLE DETAILS, AND STRUCTURAL DWGS.
17	3 5/8" MTL STUD W/ 3/4" PLYWOOD ON BOTH SIDES.
18	36" DIA STEEL METAL TO HOLD LINEAR CORRUGATED HDPE. SEE EXTERIOR ELEVATIONS AND DETAILS.
19	4" METAL TOE KICK ABOVE FINISH FLOOR.
20	TYP. HATCH THROUGH CONEX BOX FLOOR. SEE APPLICABLE DETAILS, AND STRUCTURAL DWGS.
21	30" DIA HDPE DRAINAGE PIPE (ADW-M-24T65). SEE EXTERIOR ELEVATIONS AND DETAILS.
22	24" Ø STEEL PIPE PENETRATING THROUGH CONEX BOX WALL, SEE APPLICABLE DETAILS.
23	HSS FOR WINDOW WASHER TRAINING, SEE STRUCTURAL.
24	LADDER, SEE ELEVATIONS FOR HEIGHT. SEE APPLICABLE DETAILS & SPECS FOR MORE DETAILS.

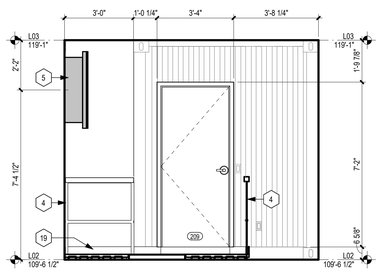
KEYED NOTES INT. ELEV.



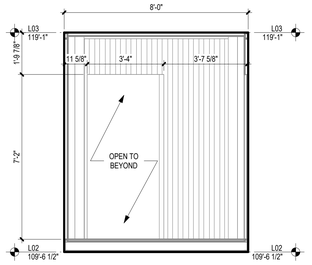
D1 CONEX BOX 205 SOUTH
3/8" = 1'-0"



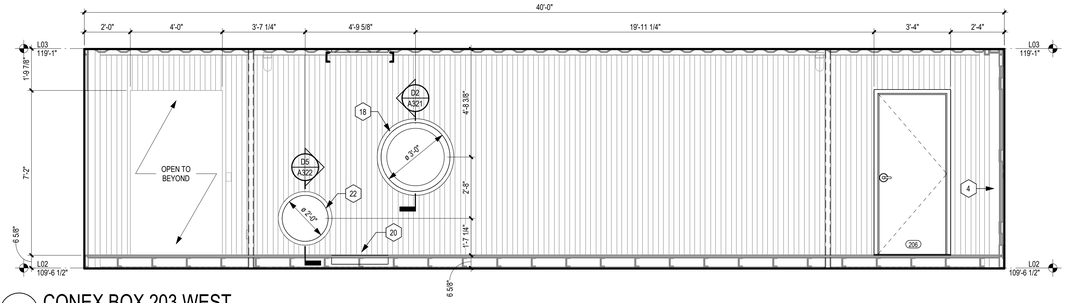
D2 CONEX BOX 205 WEST
3/8" = 1'-0"



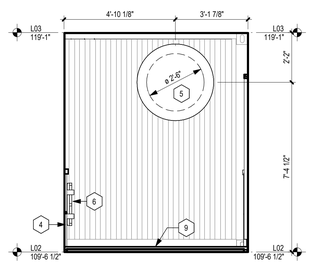
D5 CRP-2 207 NORTH
3/8" = 1'-0"



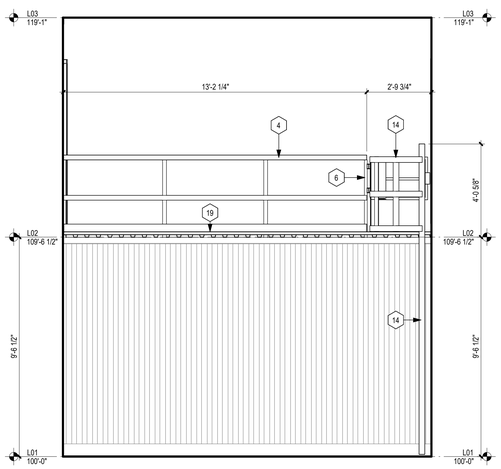
B1 CONEX BOX 203 NORTH
3/8" = 1'-0"



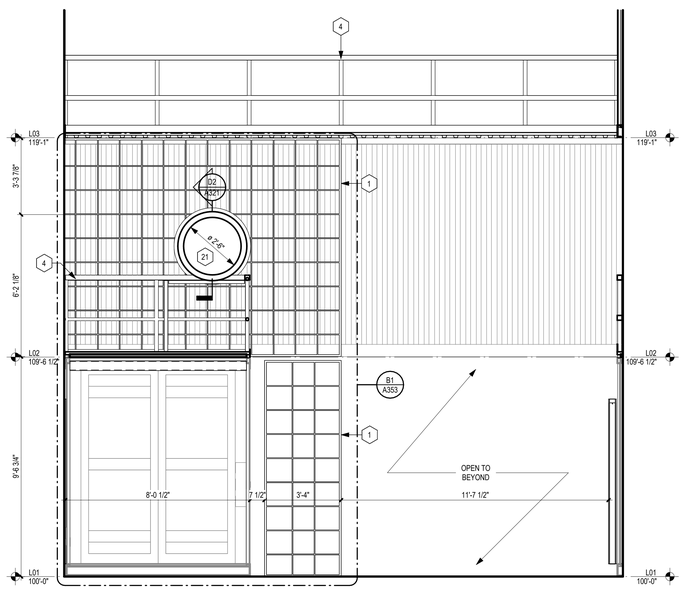
B2 CONEX BOX 203 WEST
3/8" = 1'-0"



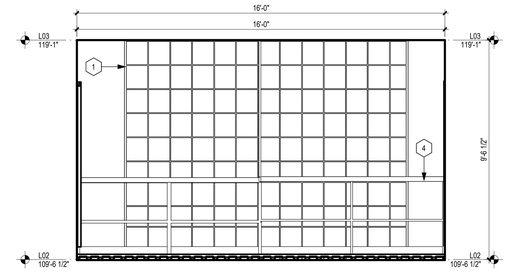
B5 CRP-2 207 WEST
3/8" = 1'-0"



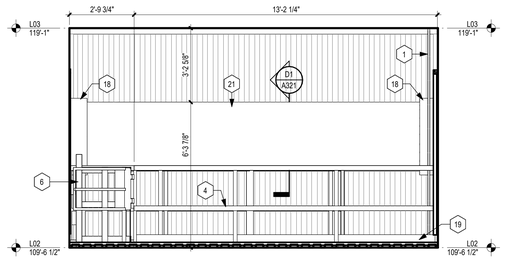
A1 GROUND FLOOR CENTER CAGED LADDER
3/8" = 1'-0"



A3 GROUND FLOOR CENTER CLIMBING GRID
3/8" = 1'-0"



B6 CRP-3 208 SOUTH
3/8" = 1'-0"



A6 CRP-3 208 NORTH
3/8" = 1'-0"

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No.	Date	Revision

INTERIOR ELEVATIONS

Project No.
23121

Sheet No.
A341

Date
09/16/2025

9/13/2025 7:37:03 PM
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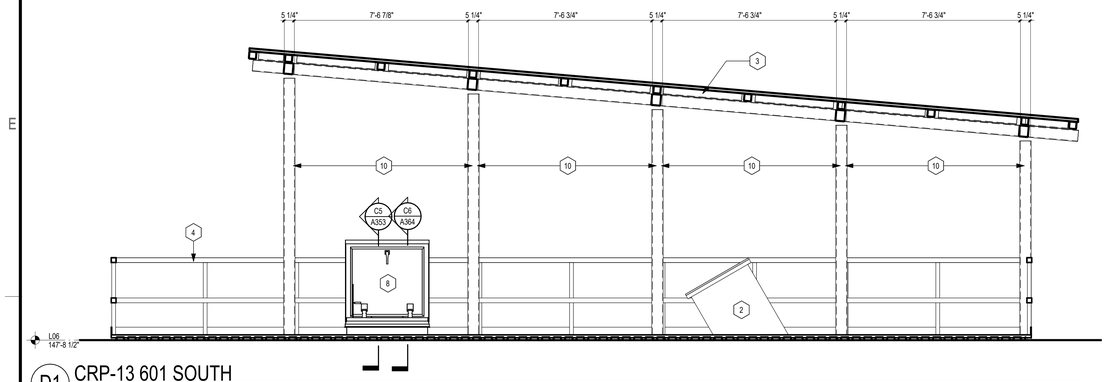
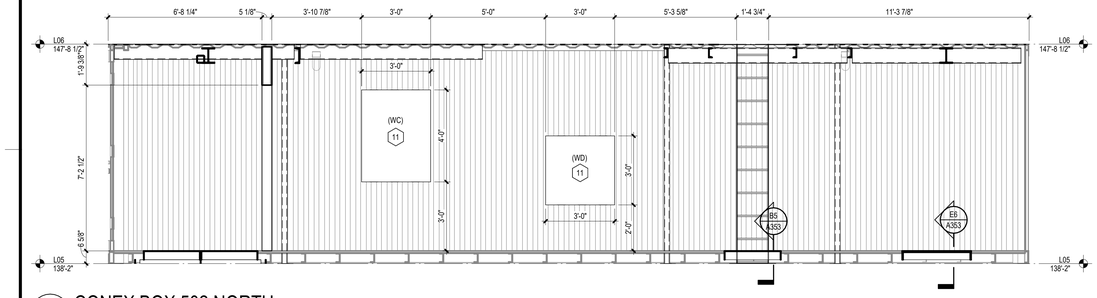
SCALE: 3" = 1'-0"
SCALE: 1 1/2" = 1'-0"
SCALE: 1" = 1'-0"
SCALE: 3/4" = 1'-0"
SCALE: 1/2" = 1'-0"
SCALE: 3/8" = 1'-0"
SCALE: 1/4" = 1'-0"
SCALE: 1/8" = 1'-0"
SCALE: 3/32" = 1'-0"
SCALE: 1/16" = 1'-0"

KEYED NOTES INT. ELEV.

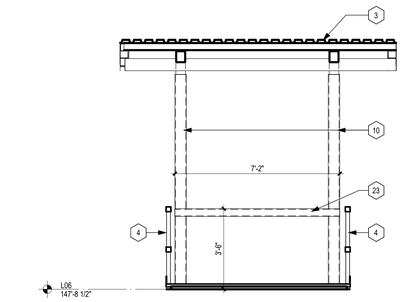
MARK	DESCRIPTION
1	METAL CLIMBING GRID, SEE ELEVATIONS FOR DIMENSIONS & STRUCTURAL DWGS.
2	ANGLED METAL PIPE PENETRATING THROUGH CONEX BOX ROOF WITH EXTERIOR SIDE, SEE APPLICABLE DETAILS.
3	1 1/2" METAL DECK ROOF, SEE ROOF PLAN & STRUCTURAL DWGS.
4	RAILING, SEE PLANS FOR TYPE
5	30" Ø STEEL PIPE PENETRATING THROUGH CONEX BOX WALL WITH CAP EXTERIOR SIDE. SEE APPLICABLE DETAILS.
6	SELF-CLOSING SAFETY SWING GATE MOUNTED TO RAIL. SEE APPLICAB DETAILS AND STRUCTURAL DWGS.
8	ROOF SCUTTLE, SEE ROOFING DETAILS.
9	TYP. HATCH THROUGH CONEX BOX ROOF. SEE APPLICABLE DETAILS, AND STRUCTURAL DWGS.
10	STRUCTURAL COLUMN, SEE STRUCTURAL DWGS.
11	WALL HATCH, SEE SHEET A361
13	NON-CAGED LADDER WITH PERSONAL FALL ARREST SYSTEM, SEE ELEVATIONS FOR HEIGHTS. SEE APPLICABLE DETAILS & SPECS.
14	CAGED LADDER WITH PERSONAL FALL ARREST SYSTEM, SEE ELEVATIONS FOR HEIGHT. SEE APPLICABLE DETAILS & SPECS FOR MORE DETAILS.
15	PENETRATION THROUGH CONEX(S) BOX FLOOR TO SIMULATE ELEVATOR SHAFT, SEE APPLICABLE DETAILS AND STRUCTURAL DWGS.
16	TYP. HATCH THROUGH CONEX BOX FLOOR. SEE APPLICABLE DETAILS, AND STRUCTURAL DWGS.
17	3 5/8" MTL STUD W/ 3/4" PLYWOOD ON BOTH SIDES.
18	36" DIA STEEL METAL TO HOLD LINEAR CORRUGATED HDPE. SEE EXTERIOR ELEVATIONS AND DETAILS.
19	4" METAL TOE KICK ABOVE FINISH FLOOR.
20	TYP. HATCH THROUGH CONEX BOX FLOOR. SEE APPLICABLE DETAILS, AND STRUCTURAL DWGS.
21	30" DIA HDPE DRAINAGE PIPE (ADW-M-24T65). SEE EXTERIOR ELEVATIONS AND DETAILS.
22	24" Ø STEEL PIPE PENETRATING THROUGH CONEX BOX WALL, SEE APPLICABLE DETAILS.
23	HSS FOR WINDOW WASHER TRAINING, SEE STRUCTURAL.
24	LADDER, SEE ELEVATIONS FOR HEIGHT. SEE APPLICABLE DETAILS & SPECS FOR MORE DETAILS.



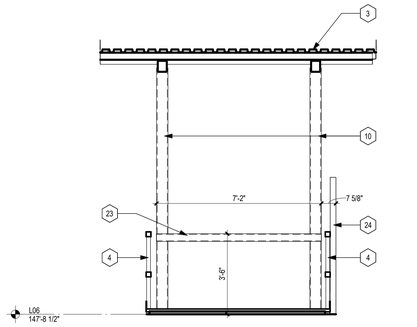
D1 CRP-13 601 SOUTH
3/8" = 1'-0"



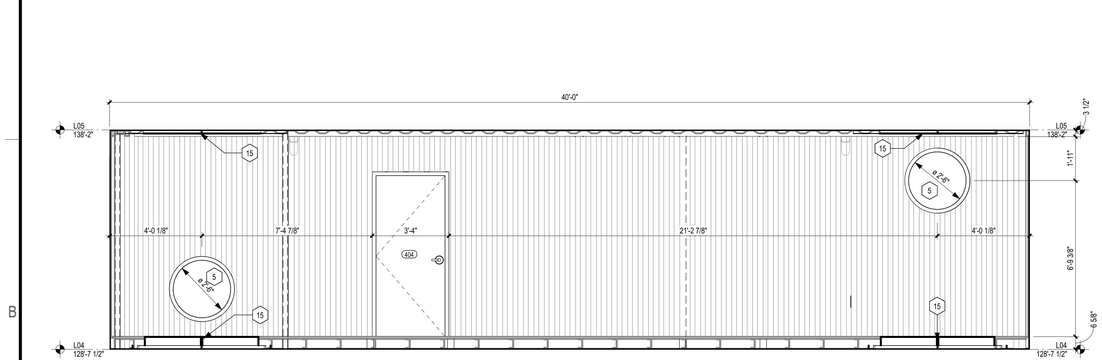
C1 CONEX BOX 502 NORTH
3/8" = 1'-0"



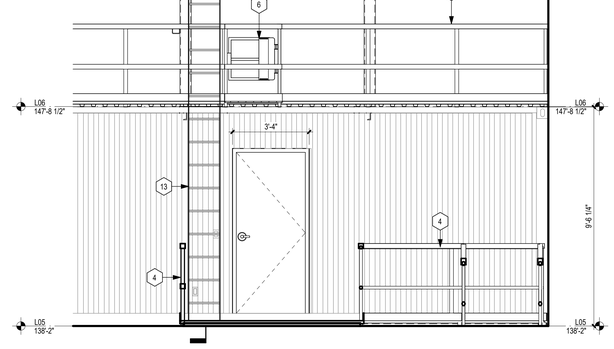
D4 CRP-14 602 EAST
3/8" = 1'-0"



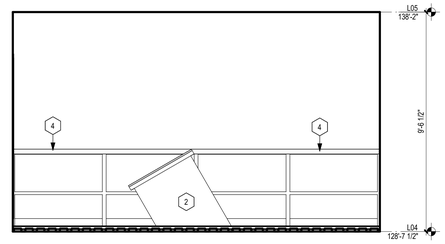
D6 CRP-14 602 WEST
3/8" = 1'-0"



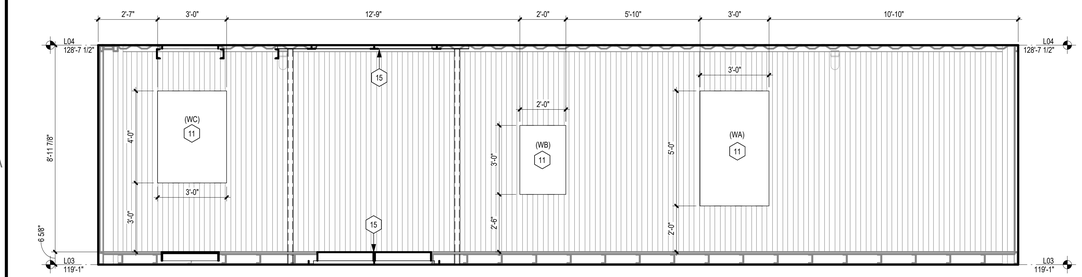
B1 CONEX BOX 402 EAST
3/8" = 1'-0"



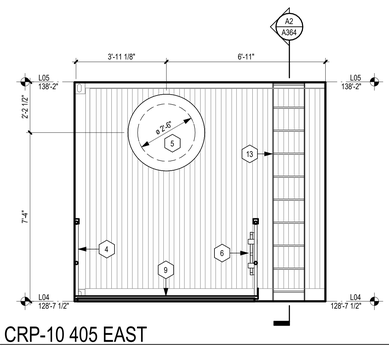
B4 CRP-11 503 NORTH
3/8" = 1'-0"



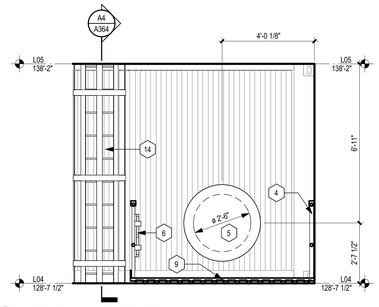
B6 CRP-7 403 SOUTH
3/8" = 1'-0"



A1 CONEX BOX 302 SOUTH
3/8" = 1'-0"



A4 CRP-10 405 EAST
3/8" = 1'-0"



A5 CRP-9 406 EAST
3/8" = 1'-0"

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CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE
360/340 ECOLOGY DRIVE ST. PETERS, MO 63376

No.	Date	Revision

INTERIOR ELEVATIONS

Project No. 23121

Sheet No. A342

Date 09/16/2025

9/13/2025 7:37:06 PM
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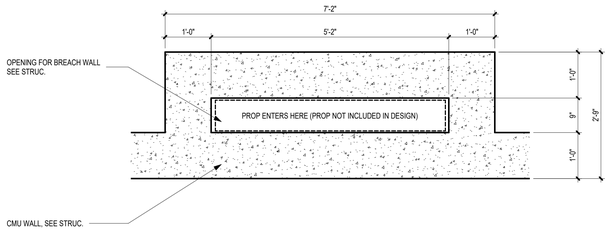
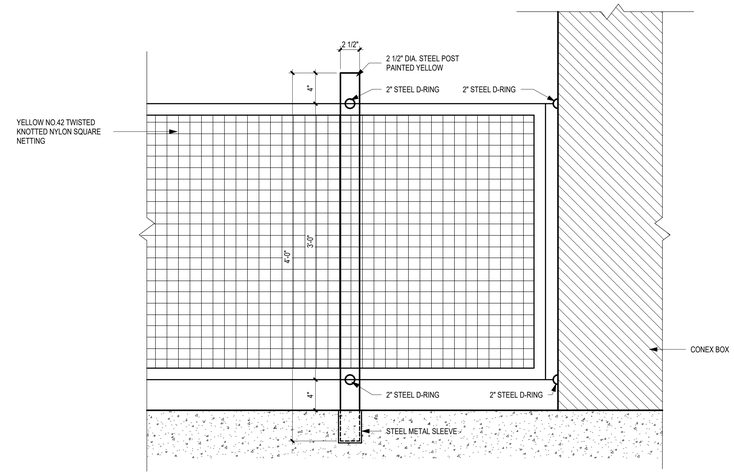
KEYED NOTES FLOOR PLAN - TRENCH

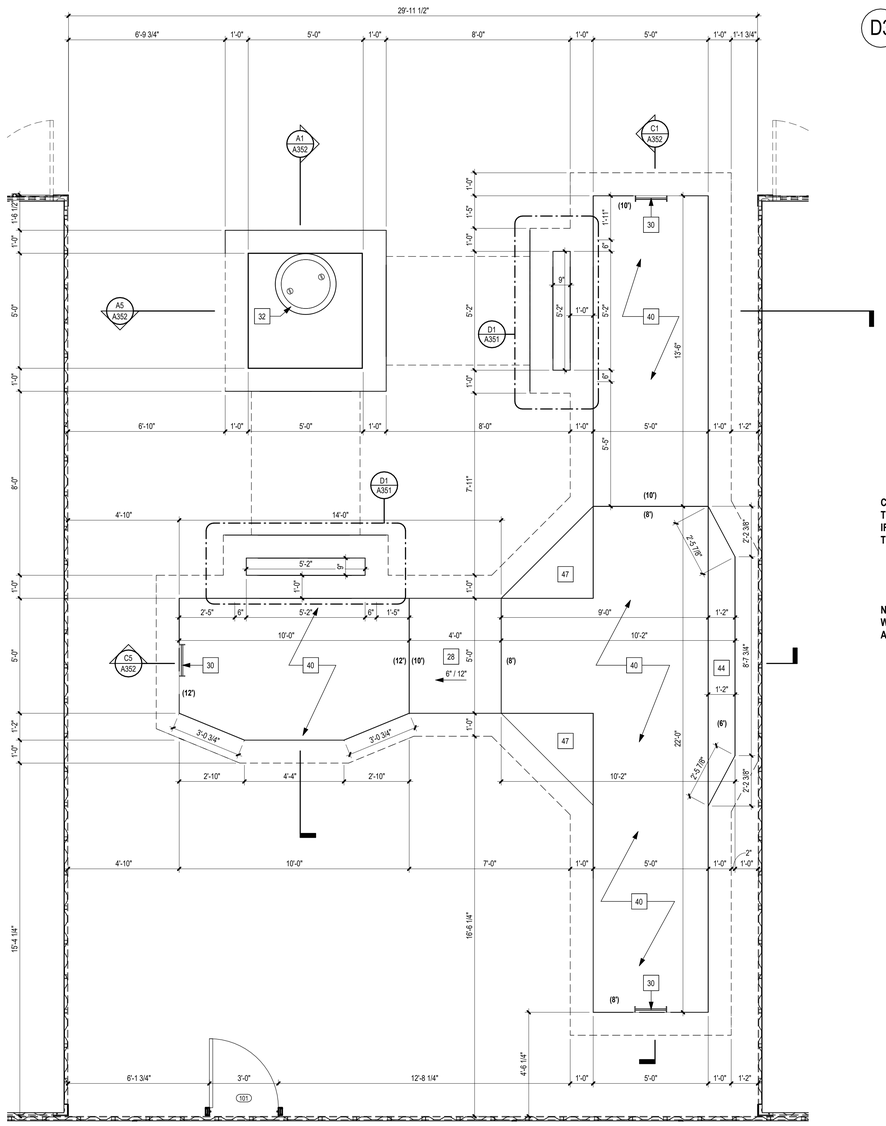
MARK	DESCRIPTION
28	CONCRETE RAMP, SEE SECTIONS & STRUCTURAL DWGS.
30	LADDER INSIDE TRENCH, SEE DETAILS AND SECTIONS FOR HEIGHTS.
31	1" THK, 4'-X 8' PLATE TO COVER PORTION OF TRENCH.
32	MANHOLE COVER AND LID, SEE STRUCTURAL DWGS.
40	CONCRETE CONTRACTOR TO MEET WITH THE OWNER ON HOW TO ACHIEVE AN IRREGULAR WALL AND ED TRAINING RESCUERS IN THIS ALCOVE.
44	2" TALL CONC FLOOR
45	REMOVABLE 2 1/2" DIA. STEEL POST PAINTED YELLOW TO SUPPORT NETTING. NETTING MANUFACTURE TO COORDINATE WITH ARCHITECT ON HOW NETTING ATTACHES TO THE METAL POST.
46	ONE CONTINUOUS NET. NETTING MANUFACTURE TO COORDINATE WITH ARCHITECT ON HOW NETTING ATTACHES TO THE METAL POST.
47	SLOPED CONCRETE CORNERS, SEE STRUCTURAL.



D1 ENLARGED PLAN - SLOT OPENING
3/4" = 1'-0"



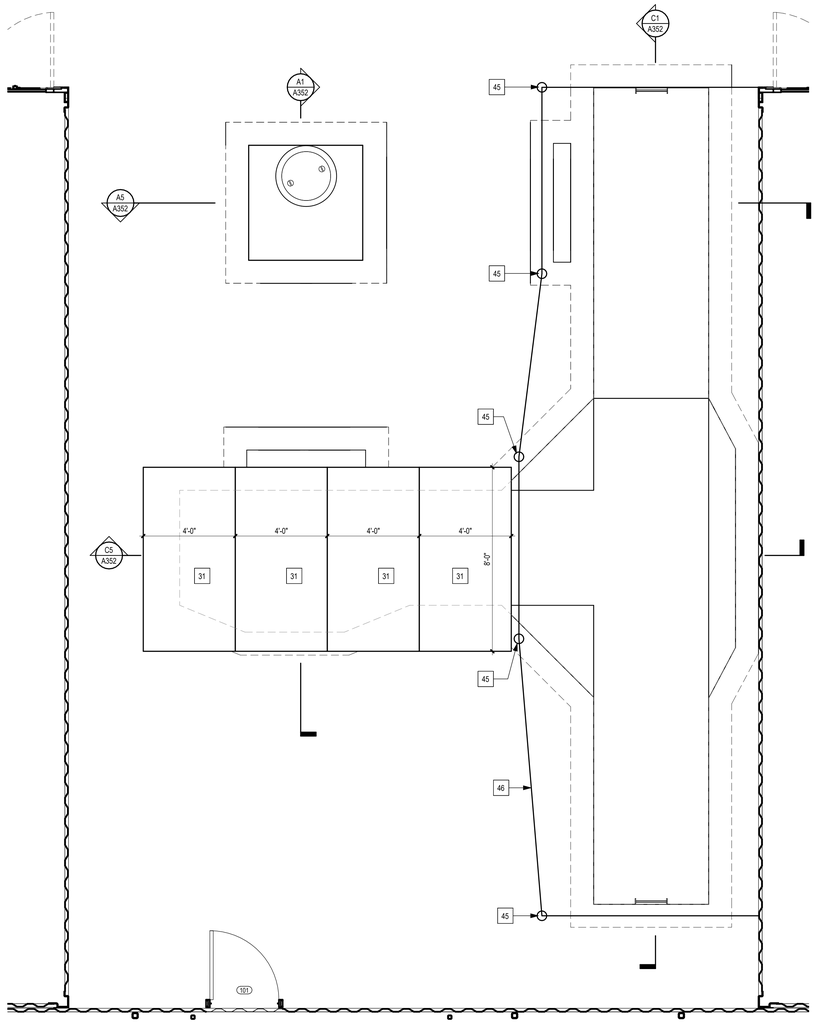
D3 TRENCH PERMITER STEEL POST & NET
1 1/2" = 1'-0"



A1 TRENCH
3/8" = 1'-0"

CONCRETE CONTRACTOR TO MEET WITH THE OWNER ON HOW TO ACHIVE AN IRREGULAR WALL AND EDGES FOR TRAINING RESCUERS IN THIS ALCOVE.

NETTING MANUFACTURE TO COORDINATE WITH ARCHITECT ON HOW NETTING ATTACHES TO THE METAL POST.



A4 TRENCH WITH PLATES
3/8" = 1'-0"

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ST. PETERS, MO 63376

No.	Date	Revision

ENLARGED PLANS TRENCH

Project No. 23121

Sheet No. A351

Date 09/16/2025

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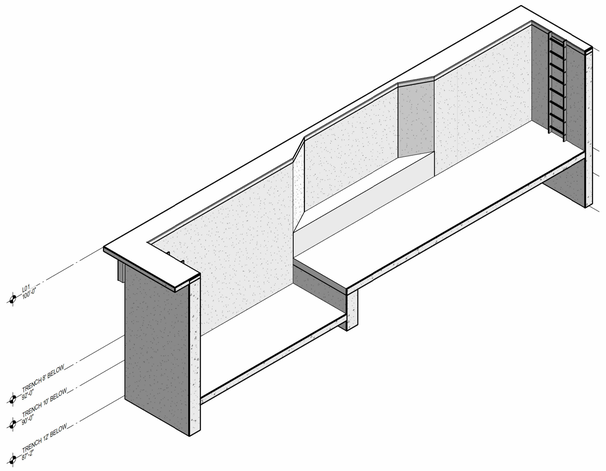
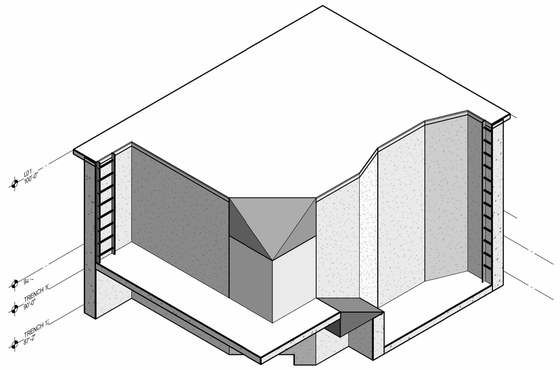


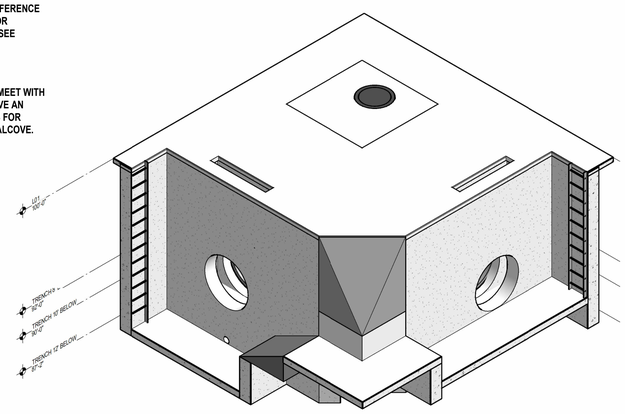
D1 TRENCH 3D EAST WALL



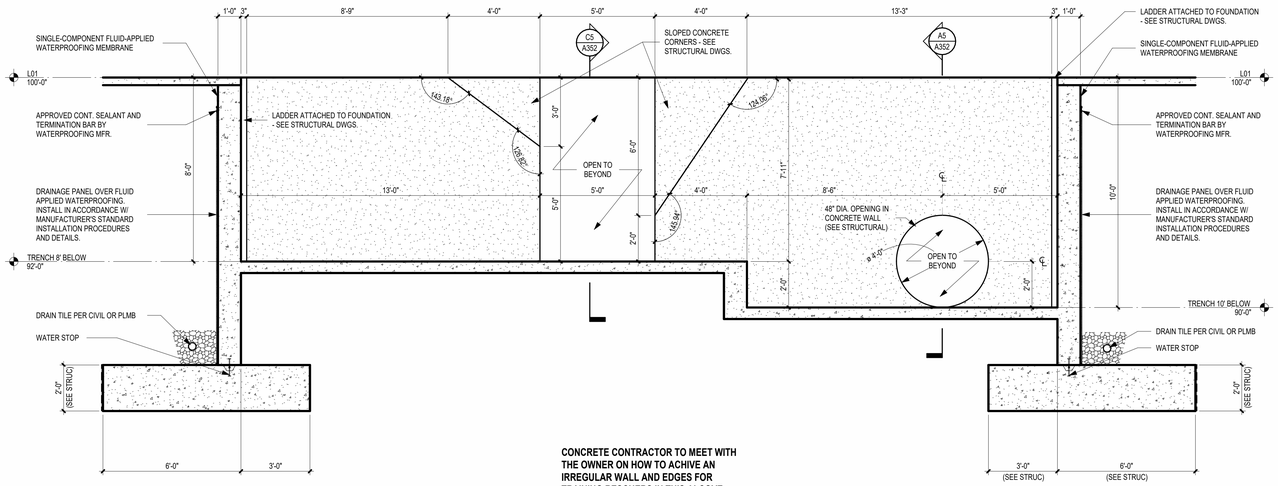
1 TRENCH 3D SOUTHWEST

3D VIEWS ARE FOR VISUAL REFERENCE AND SHOULD NOT BE USED FOR STRUCTURAL CONNECTIONS, SEE STRUCTURAL DWGS.

CONCRETE CONTRACTOR TO MEET WITH THE OWNER ON HOW TO ACHIVE AN IRREGULAR WALL AND EDGES FOR TRAINING RESCUERS IN THIS ALCOVE.

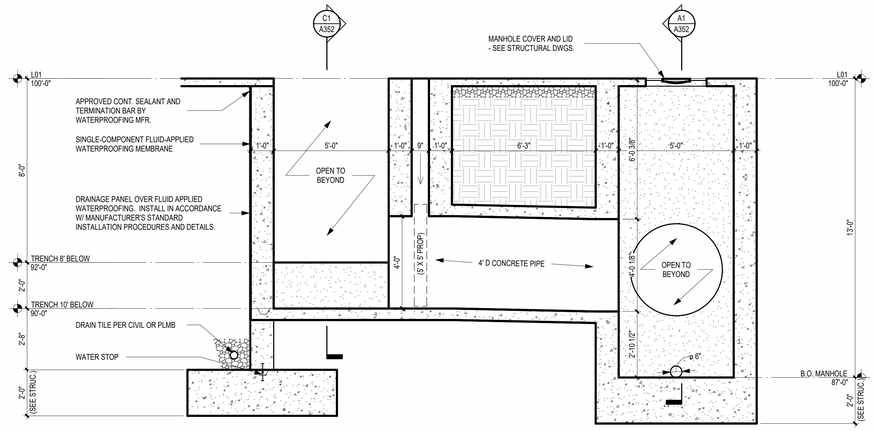


2 TRENCH 3D NORTHWEST

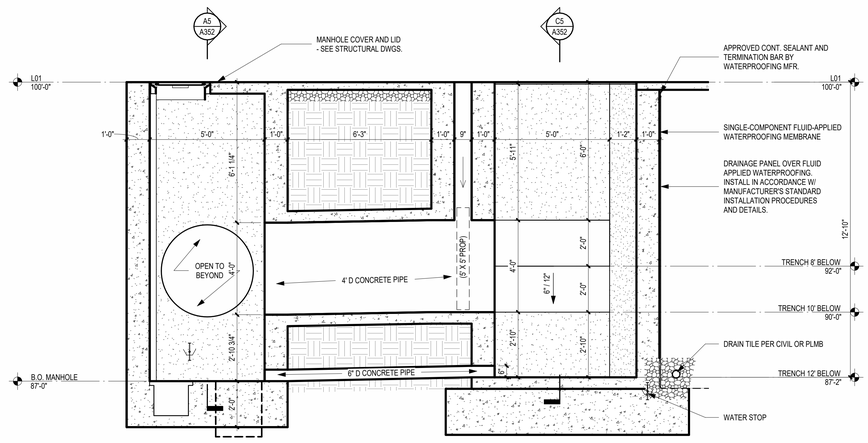


CONCRETE CONTRACTOR TO MEET WITH THE OWNER ON HOW TO ACHIVE AN IRREGULAR WALL AND EDGES FOR TRAINING RESCUERS IN THIS ALCOVE.

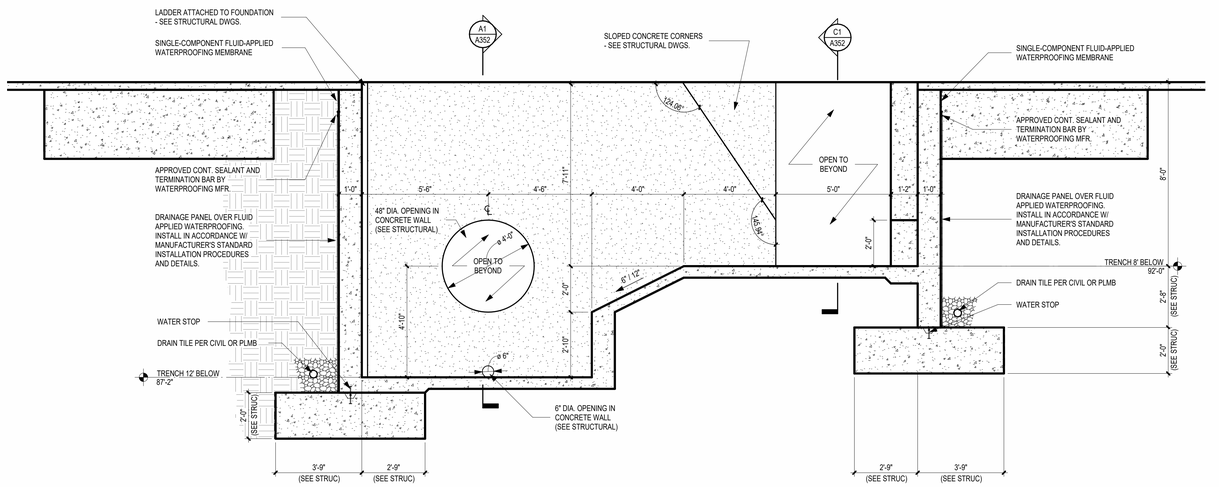
C1 SECTION @ TRENCH LOOKING WEST
3/8" = 1'-0"



A5 SECTION @ TRENCH & MANHOLE LOOKING SOUTH
3/8" = 1'-0"



A1 SECTION @ TRENCH & MANHOLE LOOKING EAST
3/8" = 1'-0"



C5 SECTION @ TRENCH LOOKING NORTH
3/8" = 1'-0"

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No.	Date	Revision

TRENCH DETAILS

Project No.
23121

Sheet No.
A352

Date
09/16/2025

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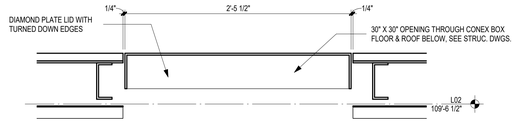
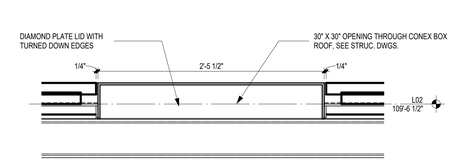
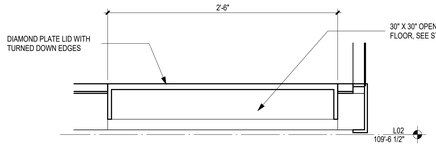


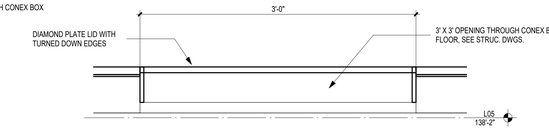
E1 HATCH THROUGH BOX ROOF & FLOOR
1 1/2" = 1'-0"



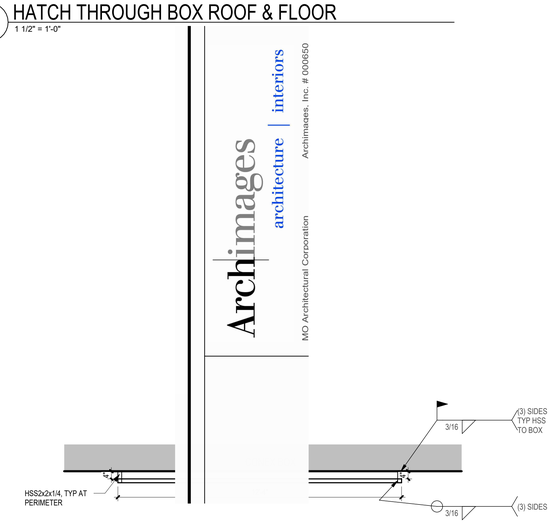
E3 HATCH THROUGH BOX ROOF
1 1/2" = 1'-0"



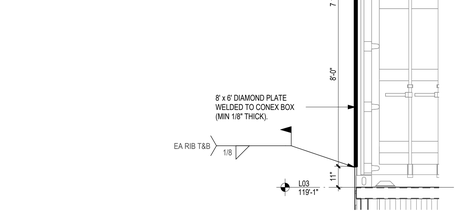
E4 HATCH THROUGH BOX FLOOR
1 1/2" = 1'-0"



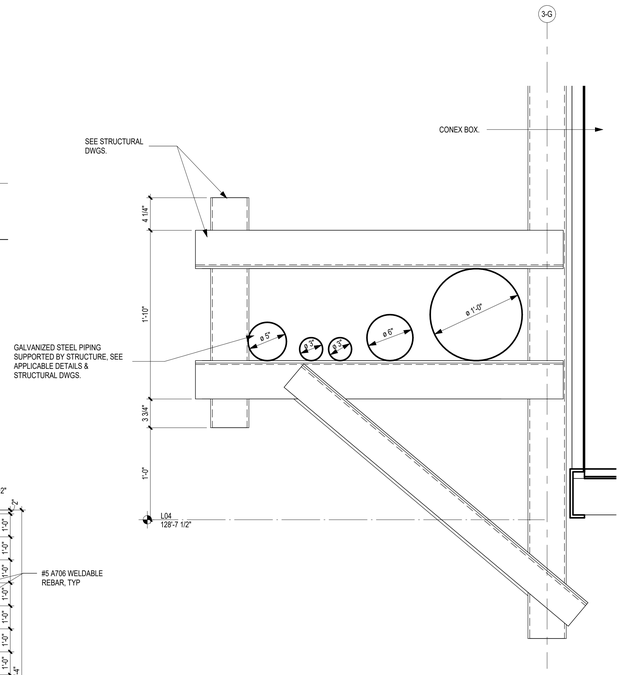
E6 3X3 HATCH THROUGH BOX FLOOR @ 5TH FLOOR
1 1/2" = 1'-0"



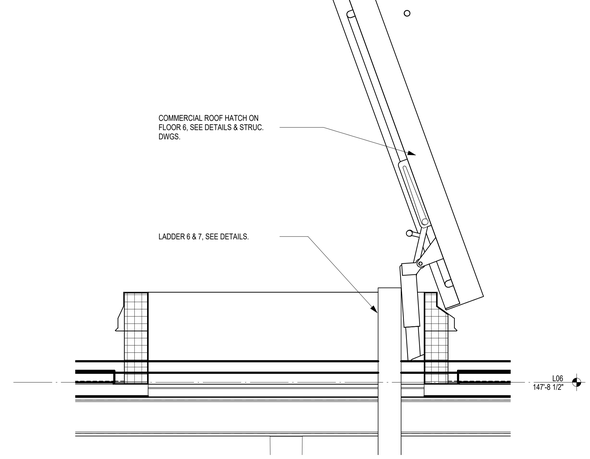
C1 ENLG. PLAN - TOP VIEW CLIMBING GRID
3/8" = 1'-0"



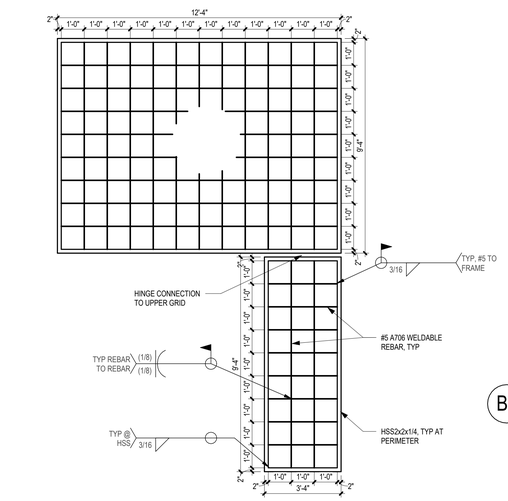
D3 EXTERIOR DIAMOND PLATE
3/8" = 1'-0"



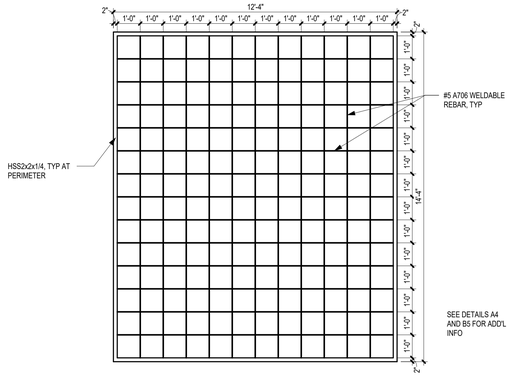
B4 SECTION THROUGH INDUSTRIAL PIPING
1 1/2" = 1'-0"



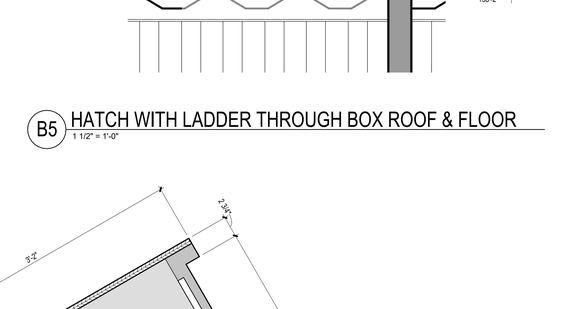
C5 ROOF HATCH WITH LADDER THROUGH BOX ROOF
1 1/2" = 1'-0"



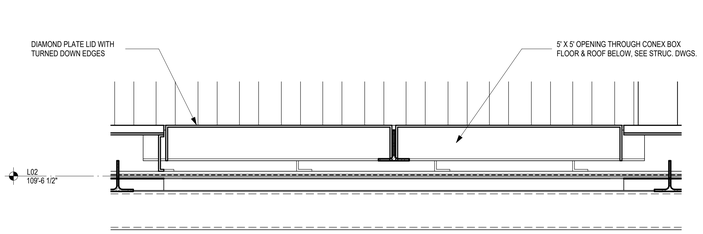
B1 CLIMBING GRID 2
3/8" = 1'-0"



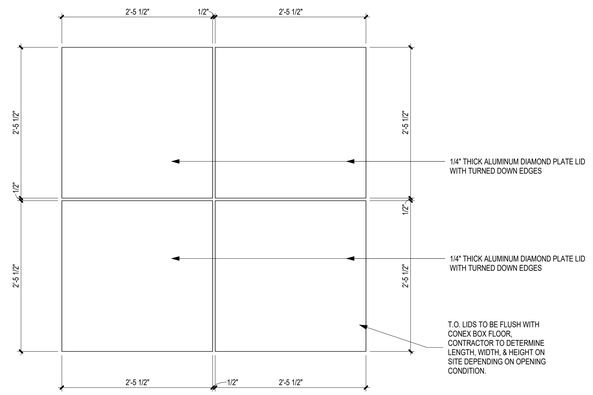
B2 CLIMBING GRID 1
3/8" = 1'-0"



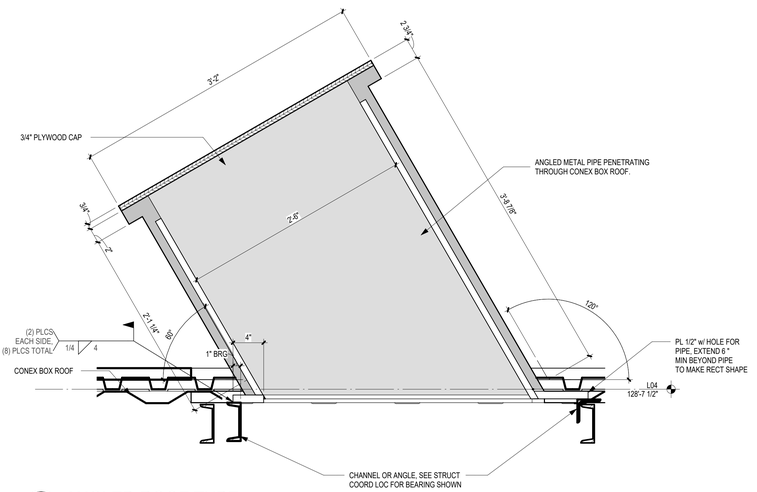
B5 HATCH WITH LADDER THROUGH BOX ROOF & FLOOR
1 1/2" = 1'-0"



A1 ELEVATOR SHAFT
1 1/2" = 1'-0"



A3 ELEVATOR HATCH OPENING LIDS
1" = 1'-0"



A5 ANGLED ROOF TUBE
1 1/2" = 1'-0"

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Proposed:
CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE
ST. PETERS, MO 63376
360/340 ECOLOGY DRIVE

No.	Date	Revision

DETAILS

Project No.
23121

Sheet No.
A353

Date
09/16/2025

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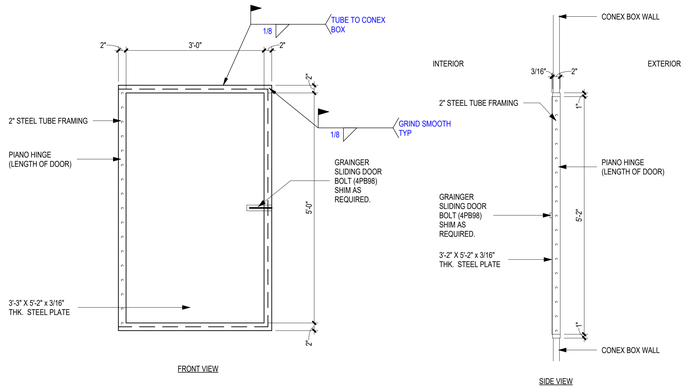
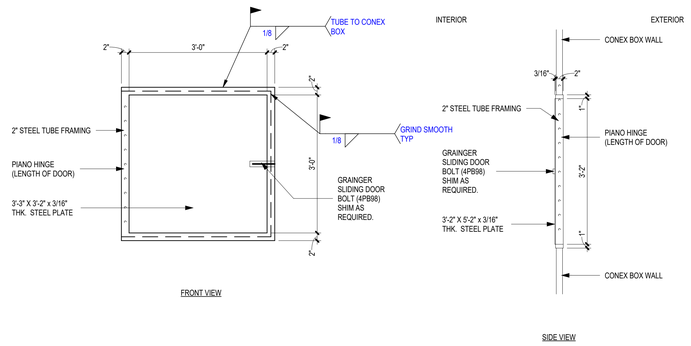
SEE EXTERIOR ELEVATIONS FOR WINDOW TYPE



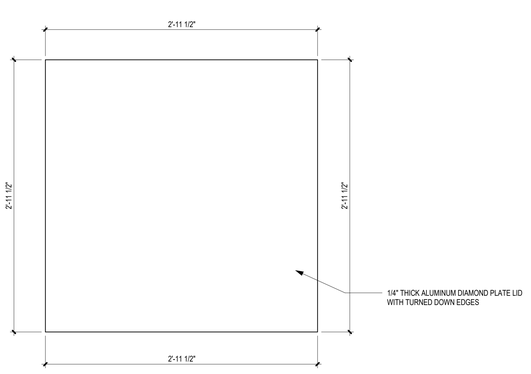
D1 WINDOW (WA)
3/4" = 1'-0"



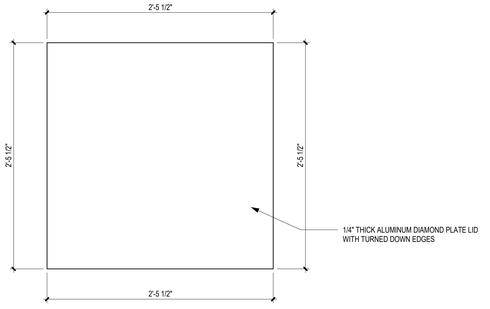
D3 WINDOW (WD)
3/4" = 1'-0"

DOOR SCHEDULE

MARK	WIDTH	HEIGHT	THICK	FRAME PROPERTIES				DOOR PROPERTIES			Door:Fire Rating	HARDWARE GROUP	COMMENTS
				FRAME TYPE	FRAME MATERIAL	FRAME FINISH	JAMB	TYPE	DOOR MATERIAL	DOOR FINISH			
101	3'-0"	7'-0"	1 3/4"	F01	HM	<By Category>	C7/A361	-F-	HM	<By Category>	-	TR 1.0	
102	3'-0"	7'-0"	1 3/4"	F01	HM	<By Category>	C7/A361	-F-	HM	<By Category>	-	TR 1.0	
103	3'-0"	7'-0"	1 3/4"	F01	HM	<By Category>	C7/A361	-F-	HM	<By Category>	-	TR 1.0	
204	3'-0"	7'-0"	1 3/4"	F01	HM	<By Category>	C7/A361	-F-	HM	<By Category>	-	TR 2.0	
205	3'-0"	7'-0"	1 3/4"	F01	HM	<By Category>	C7/A361	-F-	HM	<By Category>	-	TR 2.0	
206	3'-0"	7'-0"	1 3/4"	F01	HM	<By Category>	C7/A361	-F-	HM	<By Category>	-	TR 1.0	
207	3'-0"	7'-0"	1 3/4"	F01	HM	<By Category>	C7/A361	-F-	HM	<By Category>	-	TR 1.0	
209	3'-0"	7'-0"	1 3/4"	F01	HM	<By Category>	C7/A361	-F-	HM	<By Category>	-	TR 1.0	
301	3'-0"	7'-0"	1 3/4"	F01	HM	<By Category>	C7/A361	-F-	HM	<By Category>	-	TR 1.0	
302	3'-0"	7'-0"	1 3/4"	F01	HM	<By Category>	C7/A361	-F-	HM	<By Category>	-	TR 4.0	
303	3'-0"	7'-0"	1 3/4"	F01	HM	<By Category>	C7/A361	-F-	HM	<By Category>	-	TR 1.0	
304	3'-0"	7'-0"	1 3/4"	F01	HM	<By Category>	C7/A361	-F-	HM	<By Category>	-	TR 4.0	
401	3'-0"	7'-0"	1 3/4"	F01	HM	<By Category>	C7/A361	-F-	HM	<By Category>	-	TR 4.0	
402	3'-0"	7'-0"	1 3/4"	F01	HM	<By Category>	C7/A361	-F-	HM	<By Category>	-	TR 4.0	
403	3'-0"	7'-0"	1 3/4"	F01	HM	<By Category>	C7/A361	-F-	HM	<By Category>	-	TR 2.0	
404	3'-0"	7'-0"	1 3/4"	F01	HM	<By Category>	C7/A361	-F-	HM	<By Category>	-	TR 2.0	
405	3'-0"	7'-0"	1 3/4"	F01	HM	<By Category>	C7/A361	-F-	HM	<By Category>	-	TR 1.0	
406	3'-0"	7'-0"	1 3/4"	F01	HM	<By Category>	C7/A361	-F-	HM	<By Category>	-	TR 1.0	
501	3'-0"	7'-0"	1 3/4"	F01	HM	<By Category>	C7/A361	-F-	HM	<By Category>	-	TR 1.0	
502	3'-0"	7'-0"	1 3/4"	F01	HM	<By Category>	C7/A361	-F-	HM	<By Category>	-	TR 4.0	
503	3'-0"	7'-0"	1 3/4"	F01	HM	<By Category>	C7/A361	-F-	HM	<By Category>	-	TR 1.0	
504	3'-0"	7'-0"	1 3/4"	F01	HM	<By Category>	C7/A361	-F-	HM	<By Category>	-	TR 4.0	

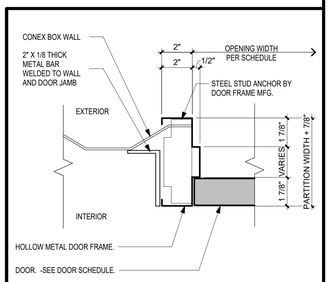


C3 ENLG. PLAN LID FOR 36" X 36" OPENING
1 1/2" = 1'-0"



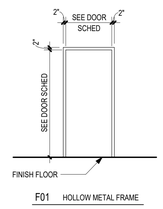
C5 ENLG. PLAN LID FOR 30" X 30" OPENING
1 1/2" = 1'-0"

DOORS AND WINDOWS TO MATCH CONEX BOX COLOR



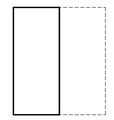
C7 TYPICAL HOLLOW METAL FRAME DOOR JAMB DETAIL
3" = 1'-0"

08.11.13.01_LG HM DOOR JAMB DETAIL



F01 HOLLOW METAL FRAME

B7 HOLLOW METAL FRAME TYPES ELEVATIONS
1/4" = 1'-0"

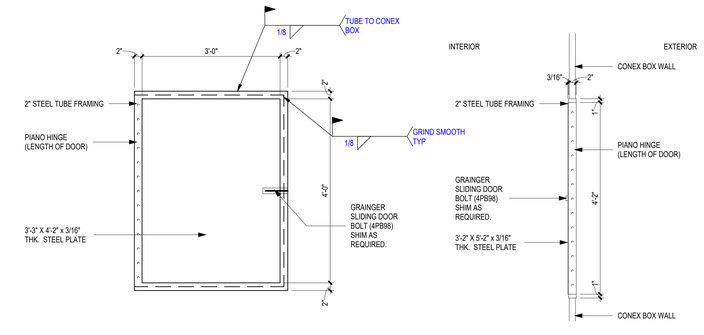


F

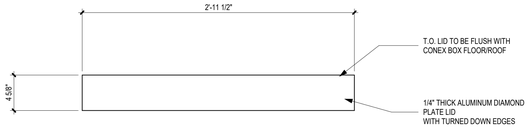
FLUSH S.C. WD. OR H.M. DOOR. -SEE DOOR SCHEDULE.

A7 DOOR TYPES ELEVATIONS
1/4" = 1'-0"

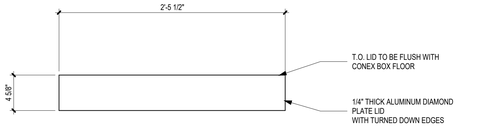
08.10.00.01 DOOR TYPES ELEVATION



B1 WINDOW (WB)
3/4" = 1'-0"



B3 SIDE VIEW LID FOR 36" X 36" OPENING
1 1/2" = 1'-0"



B5 SIDE VIEW LID FOR 30" X 30" OPENING
1 1/2" = 1'-0"

A1 WINDOW (WC)
3/4" = 1'-0"

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360 ECOLOGY DRIVE

No.	Date	Revision

DOOR SCHEDULE & WINDOWS

Project No. 23121

Sheet No. A361

Date 09/16/2025

9/11/2025 10:10:05 AM
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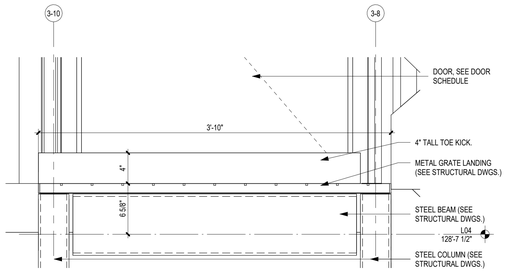
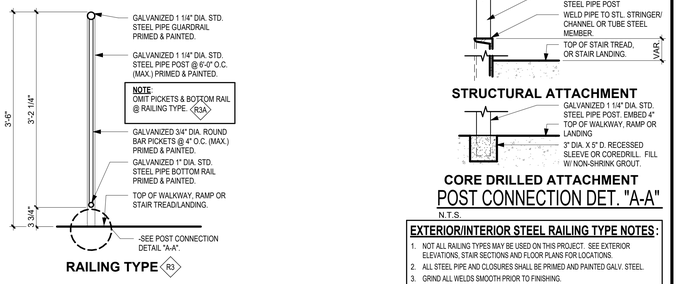
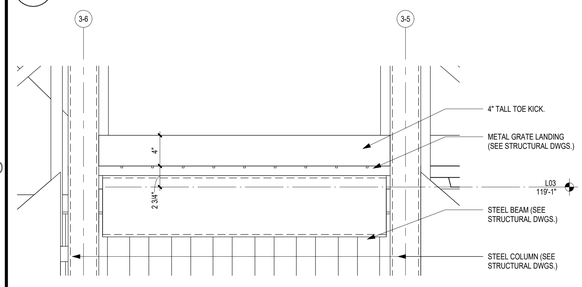


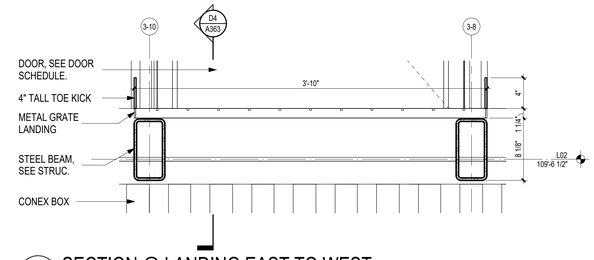
E1 LANDING AT CONEX BOX FLOOR - ELEVATION
1 1/2" = 1'-0"



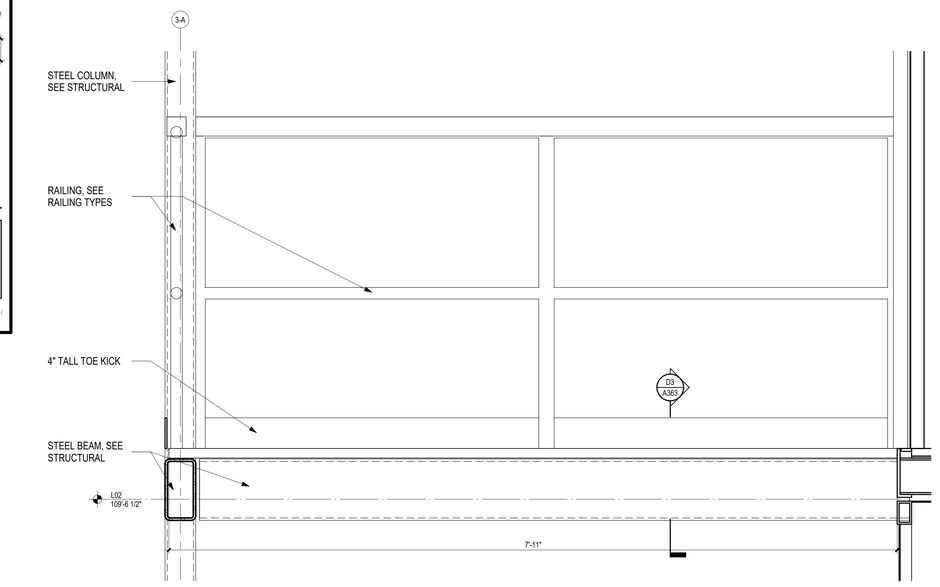
E2 TYPICAL PIPE RAILING TYPES DETAILS
1" = 1'-0"



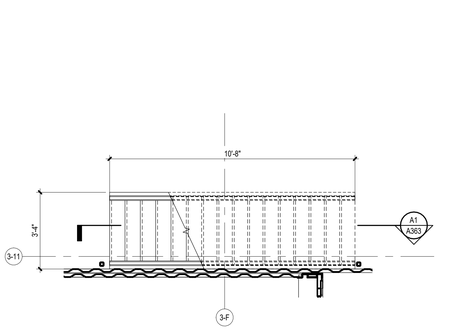
D1 LANDING AT CONEX BOX ROOF - ELEVATION
1 1/2" = 1'-0"



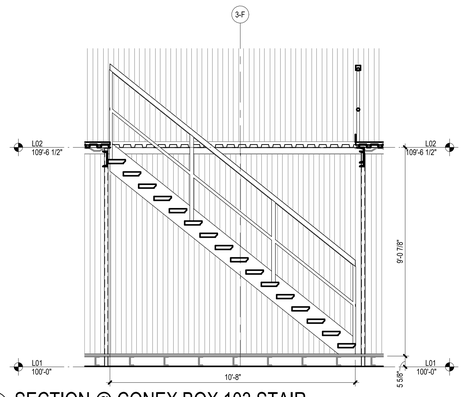
D3 SECTION @ LANDING EAST TO WEST
1 1/2" = 1'-0"



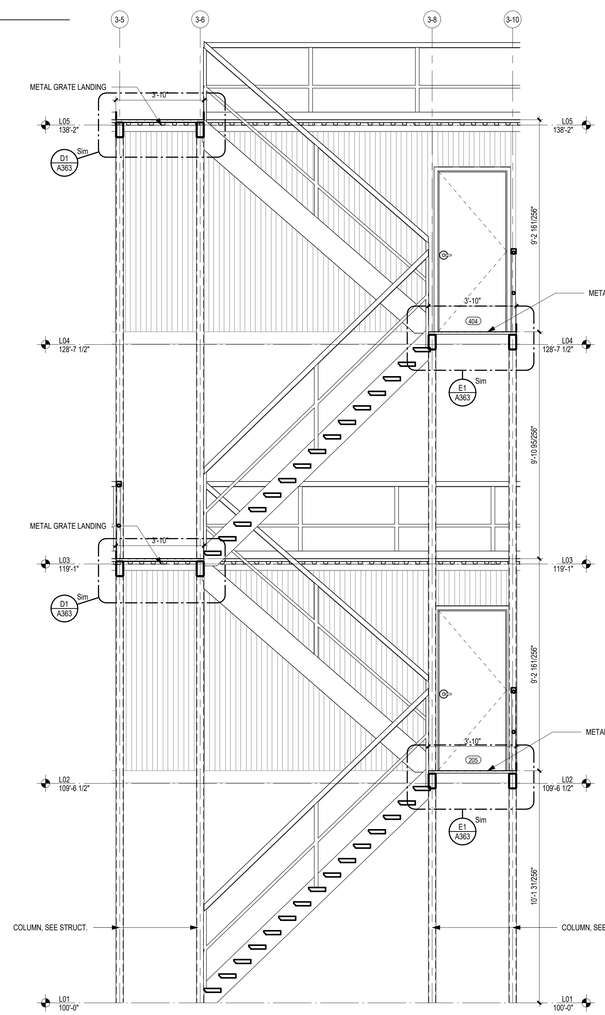
D4 SECTION @ LANDING NORTH TO SOUTH
1 1/2" = 1'-0"



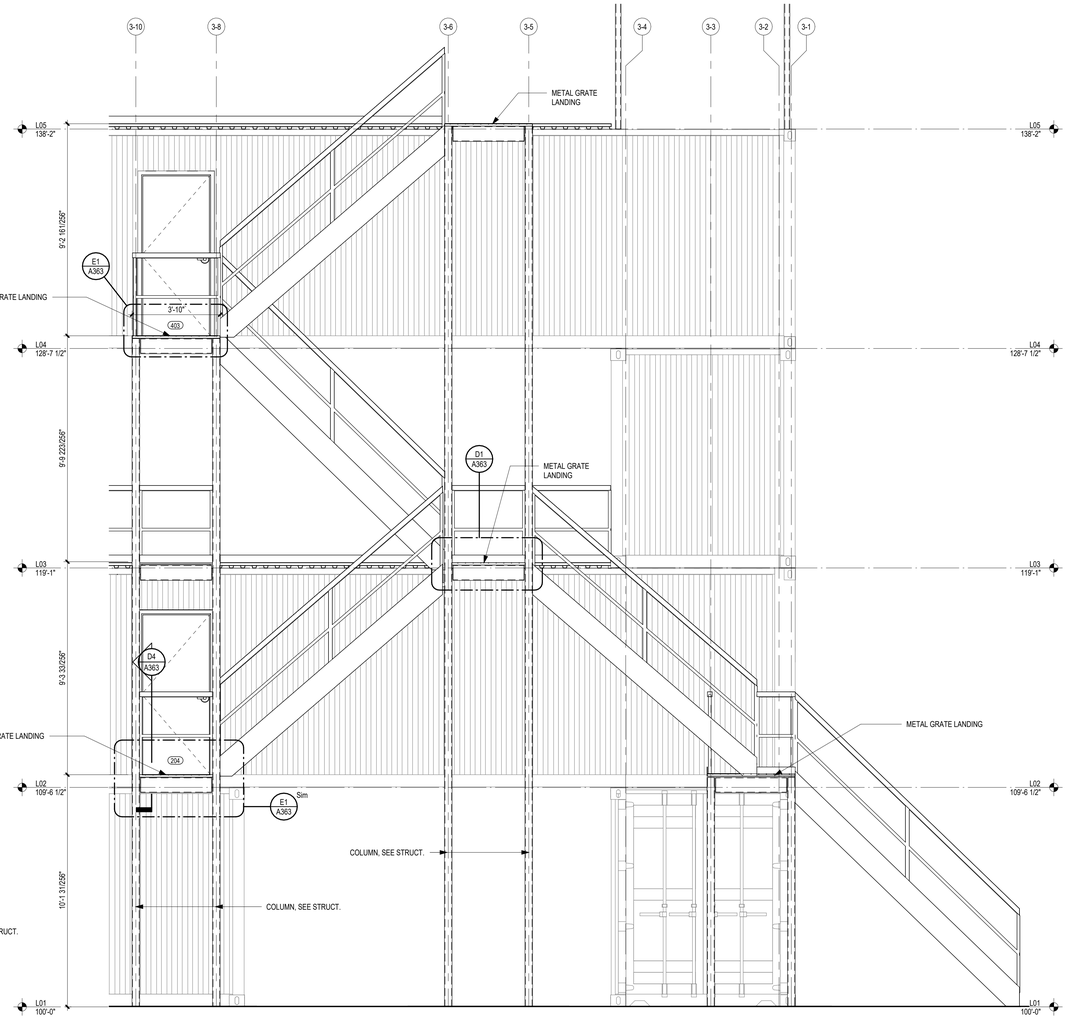
B1 PLAN @ SECTION @ CONEX BOX 103 STAIR
3/8" = 1'-0"



A1 SECTION @ CONEX BOX 103 STAIR
3/8" = 1'-0"



A2 EAST STAIR
3/8" = 1'-0"



A4 WEST STAIR
3/8" = 1'-0"

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ST. PETERS, MO 63376

No.	Date	Revision

STAIR PLAN/DETAILS

Project No. 23121

Sheet No. A363

Date 09/16/2025

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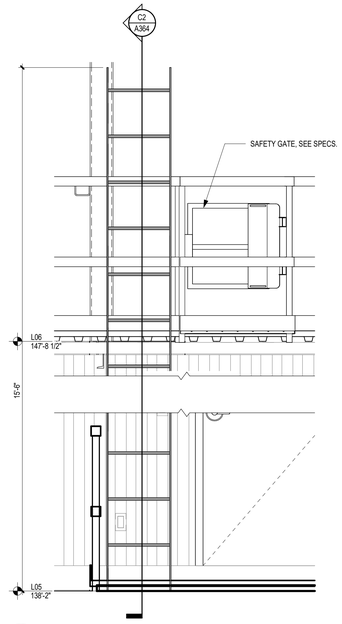
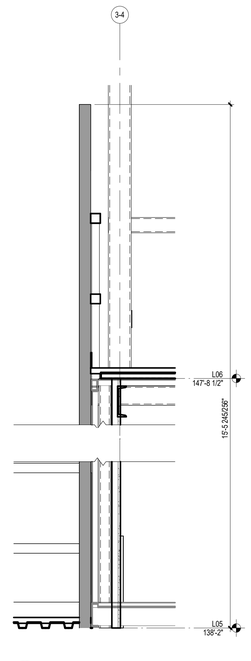
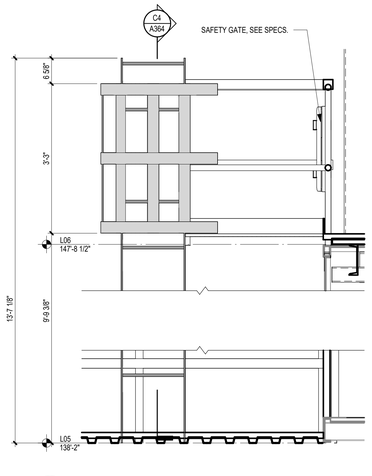
****ALL LADDERS, LADDER CAGES, & SAFETY GATES PAINTED YELLOW****



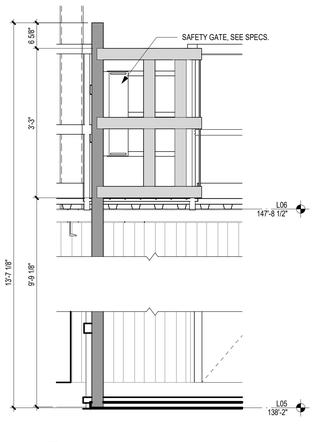
C1 LADDER 4
3/4" = 1'-0"



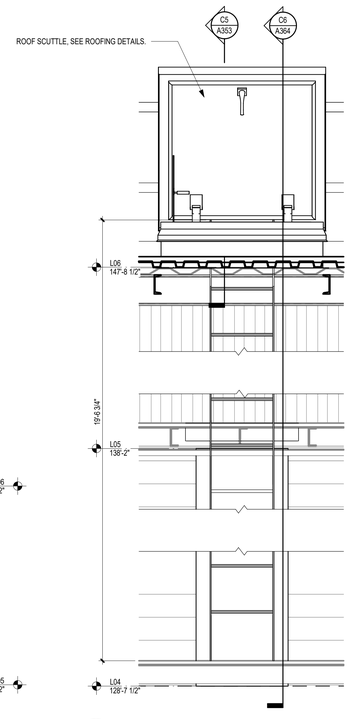
C2 SECTION @ LADDER 4
3/4" = 1'-0"



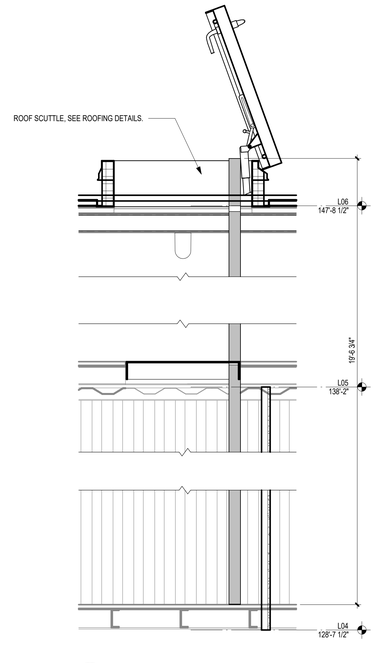
C3 LADDER 5
3/4" = 1'-0"



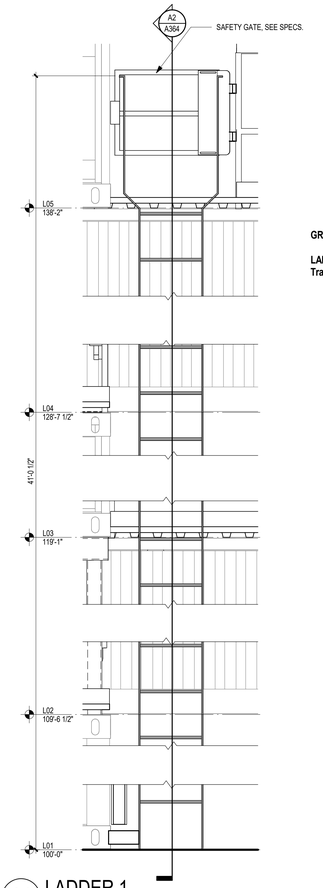
C4 SECTION @ LADDER 5
3/4" = 1'-0"



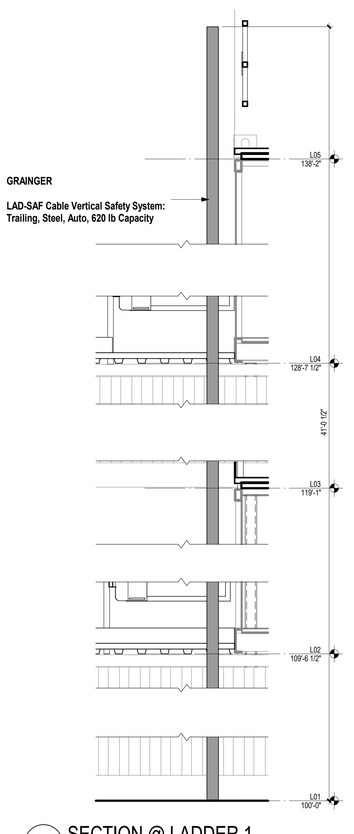
C5 LADDER 6 & 7
3/4" = 1'-0"



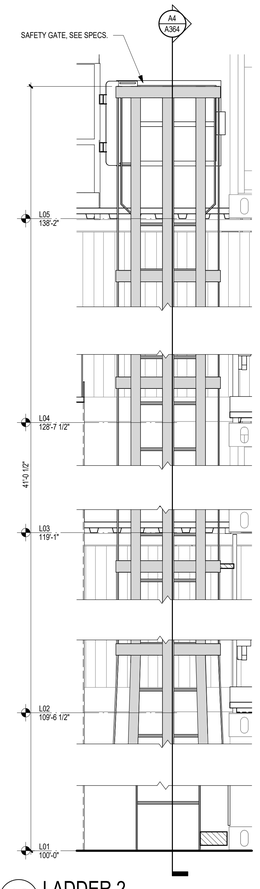
C6 SECTION @ LADDER 6 & 7
3/4" = 1'-0"



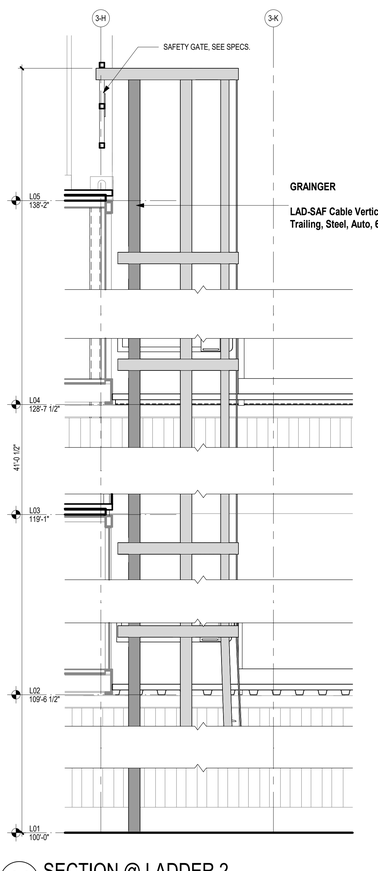
A1 LADDER 1
3/4" = 1'-0"



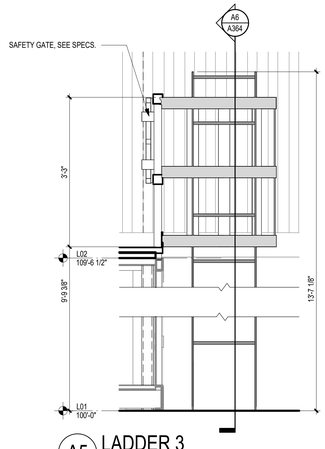
A2 SECTION @ LADDER 1
3/4" = 1'-0"



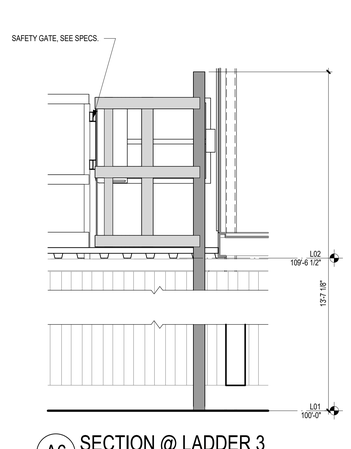
A3 LADDER 2
3/4" = 1'-0"



A4 SECTION @ LADDER 2
3/4" = 1'-0"



A5 LADDER 3
3/4" = 1'-0"



A6 SECTION @ LADDER 3
3/4" = 1'-0"

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No.	Date	Revision

LADDER DETAILS

Project No.
23121

Sheet No.
A364

Date
09/16/2025

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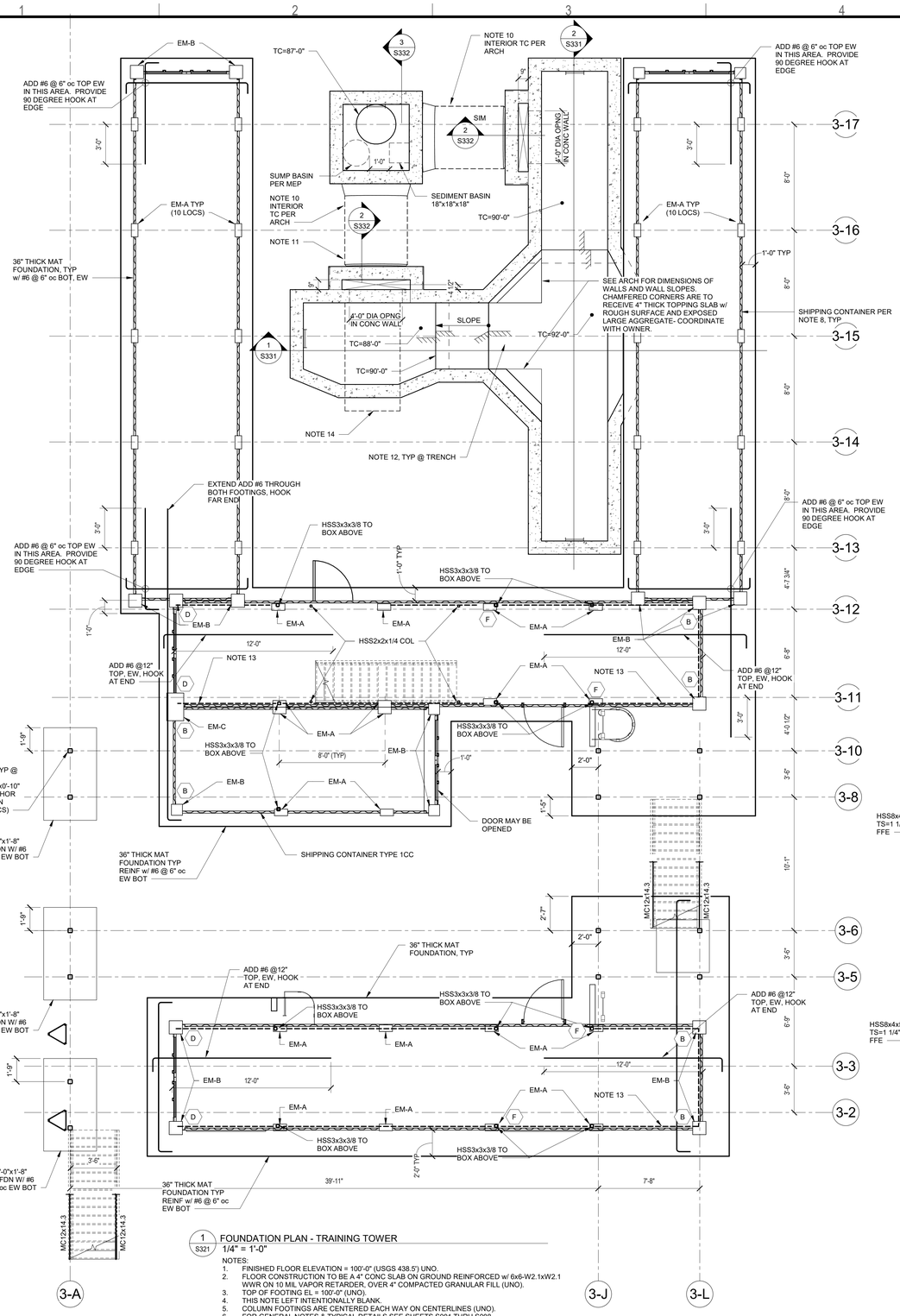
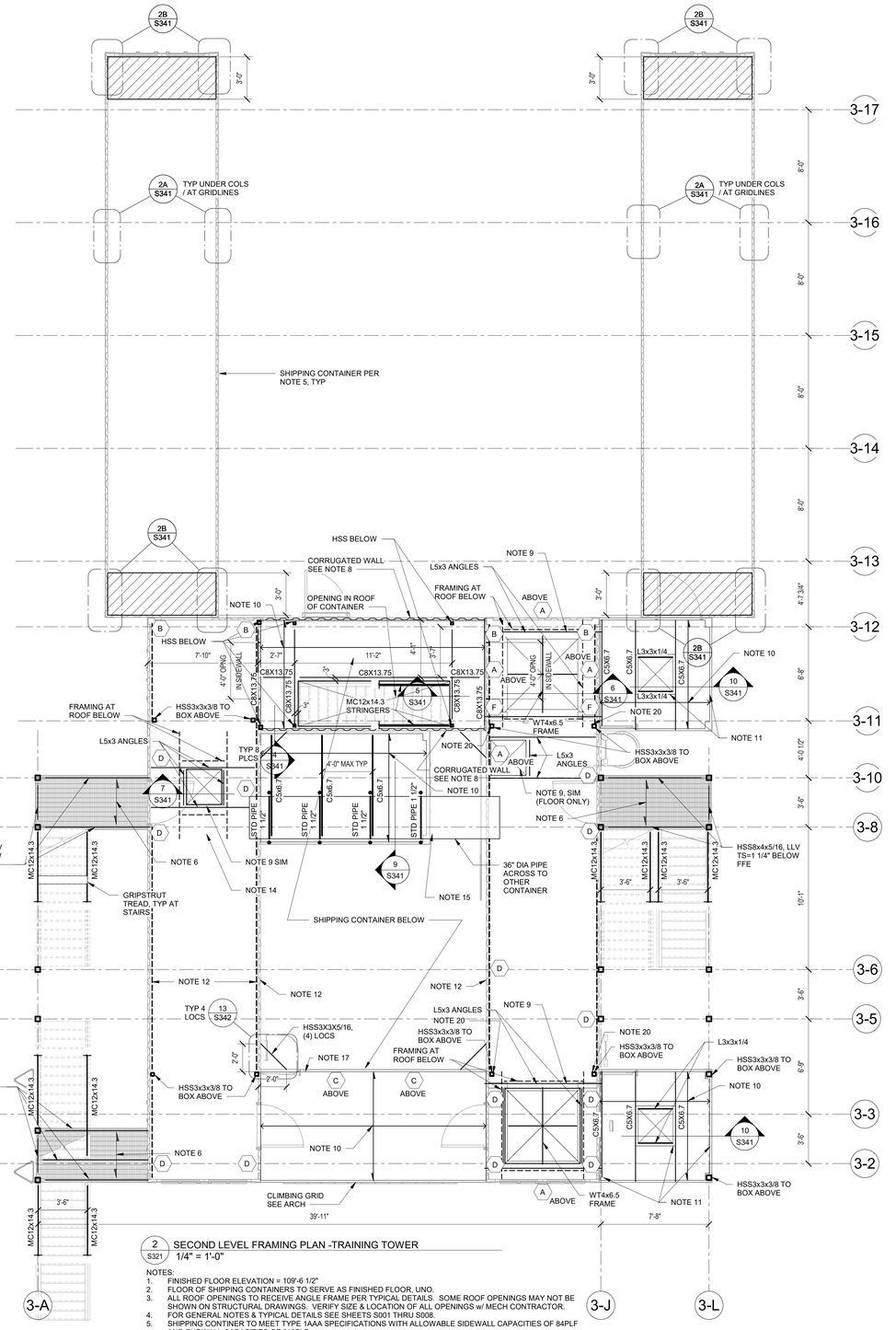
SCALE: 3" = 1'-0" SCALE: 1 1/2" = 1'-0" SCALE: 1" = 1'-0" SCALE: 3/4" = 1'-0" SCALE: 1/2" = 1'-0" SCALE: 3/8" = 1'-0" SCALE: 1/4" = 1'-0" SCALE: 1/8" = 1'-0" SCALE: 3/32" = 1'-0" SCALE: 1/16" = 1'-0"



1 S321 FOUNDATION PLAN - TRAINING TOWER
1/4" = 1'-0"

NOTES:
1. FINISHED FLOOR ELEVATION = 100'-0" (USGS 438.5') UNO.
2. FLOOR CONSTRUCTION TO BE A 4" CONC SLAB ON GROUND REINFORCED w/ 6x6-W2.1xW2.1 WWR ON 10 MIL VAPOR RETARDER, OVER 4" COMPACTED GRANULAR FILL (UNO).
3. TOP OF FOOTING EL = 100'-0" (UNO).
4. THIS NOTE LEFT INTENTIONALLY BLANK.
5. COLUMN FOOTINGS ARE CENTERED EACH WAY ON CENTERLINES (UNO).
6. FOR GENERAL NOTES & TYPICAL DETAILS SEE SHEETS S001 THRU S008.
7. SEE DETAILS ON S341 FOR REINFORCEMENT AT DOOR AND WINDOW OPENING LOCATIONS.
8. SHIPPING CONTINER TO MEET TYPE 1AAA SPECIFICATIONS, UNO.
9. "EM-__ " DENOTES EMBED PLATE TYPE PER DETAIL 1/S332.
10. 48" DIA PREFABRICATED PIPE BY OTHERS. SEE ARCH FOR ELEVATION.
11. SLOT FOR REMOVEABLE BREACH PANEL STEEL FRAME BY OTHERS.
12. AT TRENCH, PROVIDE 5" THICK SLAB ON GROUND WITH #5@12" oc EW, MID-DEPTH. CONTRACTOR TO PROVIDE CHAIRS OR OTHER MEANS OF ENSURING BAR IS PLACED MID-DEPTH.
13. WHERE SHOWN, ADD MIN 20GA OR 1/8" THICK SHEET STEEL, CONNECTED TO CONTAINER WITH 3/8" PUDDLE WELD AT 6" OC AT EDGES AND 12" OC IN FIELD. STOP EITHER SIDE OF ADDED COLUMNS. SEE 9/S341.
14. 1 1/4" THICK STEEL PLATE FOR TEMPORARY SPAN OVER TRENCH. SEE ARCH FOR LAYOUT. MAX 8K WHEEL LOAD, MIN 2'-6" oc.
15. CONTAINER END DOOR TO REMAIN CLOSED UNLESS NOTED.
16. (X) INDICATES ANCHOR POINT PER 8/S342.
17. (X) INDICATES ANCHOR AT EDGE OF OPENING PER 7/S341.
18. BASE BID TO INCLUDE 20 ADDITIONAL ANCHOR POINTS, SIMILAR TO DETAILS 7/S341 OR 8/S342.



2 S321 SECOND LEVEL FRAMING PLAN -TRAINING TOWER
1/4" = 1'-0"

NOTES:
1. FINISHED FLOOR ELEVATION = 109'-6 1/2"
2. FLOOR OF SHIPPING CONTAINERS TO SERVE AS FINISHED FLOOR, UNO.
3. ALL ROOF OPENINGS TO RECEIVE ANGLE FRAME PER TYPICAL DETAILS. SOME ROOF OPENINGS MAY NOT BE SHOWN ON STRUCTURAL DRAWINGS. VERIFY SIZE & LOCATION OF ALL OPENINGS w/ MECH CONTRACTOR.
4. FOR GENERAL NOTES & TYPICAL DETAILS SEE SHEETS S001 THRU S008.
5. SHIPPING CONTINER TO MEET TYPE 1AAA SPECIFICATIONS WITH ALLOWABLE SIDEWALL CAPACITIES OF 84PLF AND ENDWALL CAPACITIES OF 843PLF.
6. BAR GRATING PER GENERAL NOTES.
7. ▨ INDICATES AREA WHERE ADDITIONAL 5/16" DIA LAG SCREWS TO BE ADDED TO EXISTING FRAMING TO PROVIDE A TOTAL NUMBER OF SCREWS AT 6" oc MAX. (EXISTING CONNECTION HAS SCREWS AT 12" oc).
8. ADD 1 1/2" 20 GA ROOF DECK, VERTICAL, TO CREATE WALLS. SEE DETAIL 3/S341.
9. OPENING THROUGH CONTAINER FLOOR AND ROOF: SEE DETAILS 6/ AND 7/S341.
10. PROVIDE 1 1/2" ROOF DECK PER GENERAL NOTES, EXCEPT INCREASE ATTACHMENT TO 36/5 AND 6 SIDELAP CONNECTIONS PER SPAN.
11. AT SMALL OPENING THROUGH ROOF ONLY, WELD ENDS OF CHANNEL AND L3x3 TO C6, END PANEL, OR SIDE RAIL WITH 3/16" FILLET WELD EE, TYP.
12. WHERE SHOWN, ADD MIN 20GA OR 1/8" THICK SHEET STEEL, CONNECTED TO CONTAINER WITH 3/8" PUDDLE WELD AT 6" OC AT EDGES AND 12" OC IN FIELD. STOP EITHER SIDE OF ADDED COLUMNS. SEE 9/S341.
13. SEE DETAILS ON S341 FOR CONNECTIONS OF CONTAINERS AT CORNERS.
14. C5 UNDER TOP OF CONTAINER CENTERED ON STD PIPE. WELD TO TOP RAIL AND C5 WITH 1/4" ALL AROUND FILLET.
15. STD PIPE 1 1/2", TYP (8) PLCS. CENTER ON TOP RAIL AT SOUTH SIDE. SEE 9/S341.
16. CONTAINER END DOOR TO REMAIN CLOSED UNLESS NOTED.
17. REINFORCED HANDRAIL AT INTERIOR. SEE DETAIL 11/S342.
18. (X) INDICATES ANCHOR POINT PER 8/S342.
19. (X) INDICATES ANCHOR AT EDGE OF OPENING PER 7/S341.
20. ADD 2x4 HANGER AT LOCATION NOTED AT 42" AND 24" ABOVE FINISHED FLOOR. PROVIDE SIMPSON STRONG TIE APLH2x4 14-GA CONCEALED HOIST HANGER, OR APPROVED EQUAL. ATTACH WITH (6) #10 SCREWS PER MANFR GUIDELINES.
21. SEE DETAILS ON S341 FOR REINFORCEMENT AT DOOR AND WINDOW OPENING LOCATIONS.

SCALE: 3" = 1'-0" / SCALE: 1 1/2" = 1'-0" / SCALE: 1" = 1'-0" / SCALE: 3/4" = 1'-0" / SCALE: 1/2" = 1'-0" / SCALE: 3/8" = 1'-0" / SCALE: 1/4" = 1'-0" / SCALE: 1/8" = 1'-0" / SCALE: 3/32" = 1'-0" / SCALE: 1/16" = 1'-0"

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Date: 2025.09.11 21:49:04-05'00'

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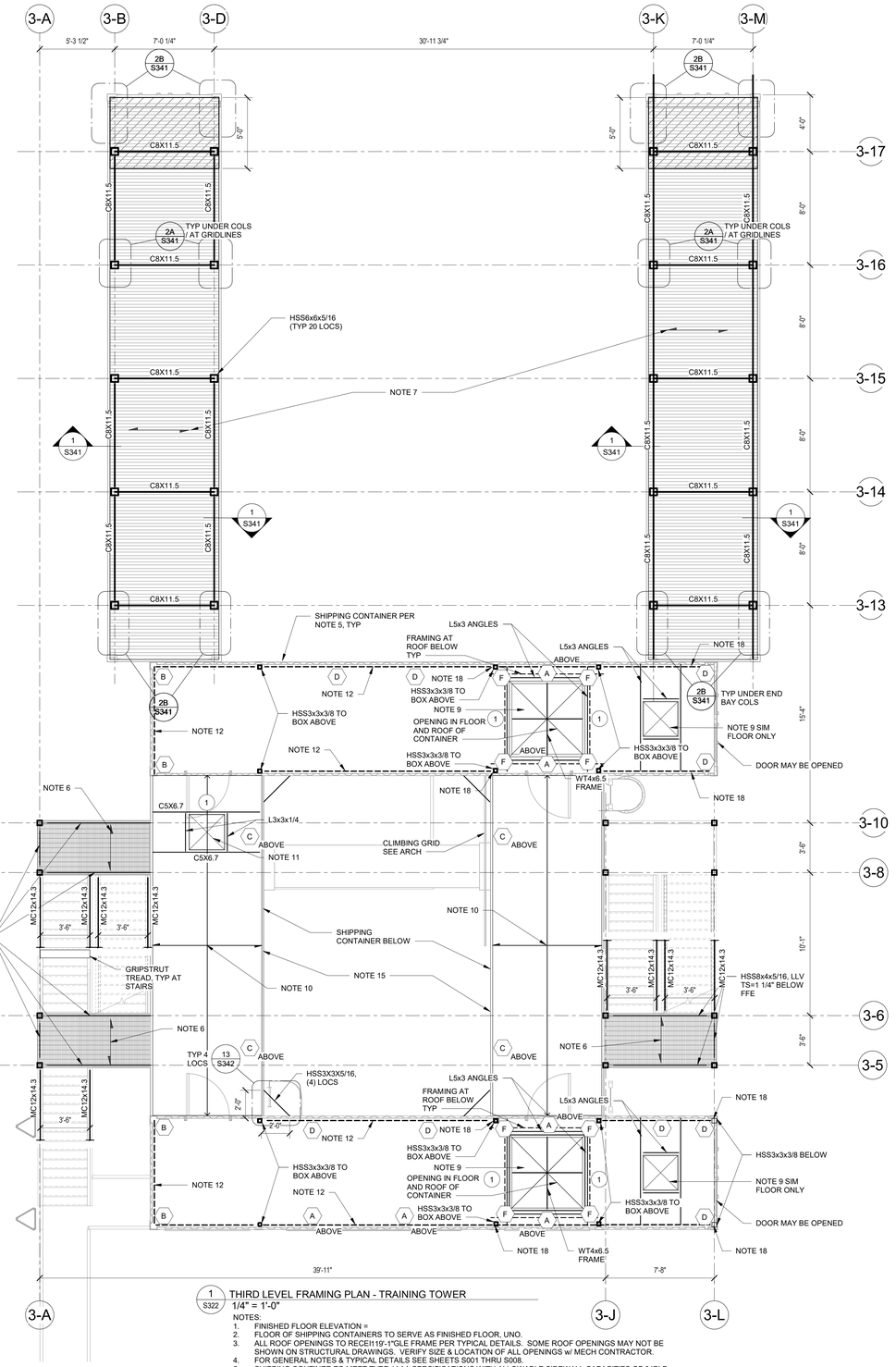
No.	Date	Revision

FDN PLAN & 2ND LEVEL FRAMING PLAN

Project No. 2400235

Sheet No. S321

Date 09/16/2025

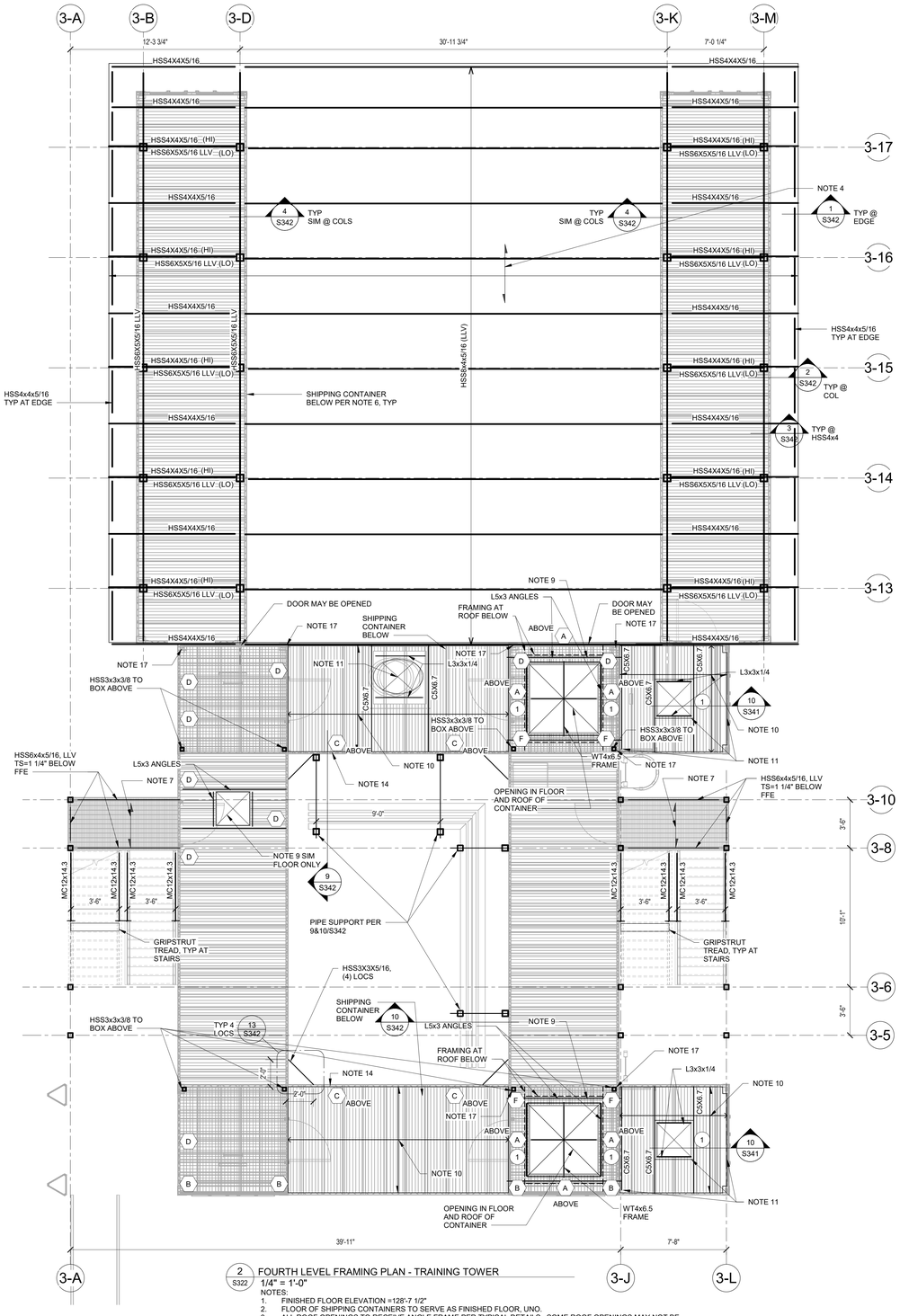


1 S322 THIRD LEVEL FRAMING PLAN - TRAINING TOWER

1/4" = 1'-0"

NOTES:

1. FINISHED FLOOR ELEVATION =
2. FLOOR OF SHIPPING CONTAINERS TO SERVE AS FINISHED FLOOR, UNO.
3. ALL ROOF OPENINGS TO RECEI119'-1"GLE FRAME PER TYPICAL DETAILS. SOME ROOF OPENINGS MAY NOT BE SHOWN ON STRUCTURAL DRAWINGS. VERIFY SIZE & LOCATION OF ALL OPENINGS w/ MECH CONTRACTOR.
4. FOR GENERAL NOTES & TYPICAL DETAILS SEE SHEETS S001 THRU S008.
5. SHIPPING CONTINER TO MEET TYPE 1AAA SPECIFICATIONS WITH ALLOWABLE SIDEWALL CAPACITIES OF 84PLF AND ENDWALL CAPACITIES OF 843PLF.
6. BAR GRATING PER GENERAL NOTES.
7. PROVIDE 1 1/2" ROOF DECK PER GENERAL NOTES, EXCEPT INCREASE ATTACHMENT TO 36/5 AND 6 SIDELAP CONNECTIONS PER SPAN.
8. ▨ INDICATES AREA WHERE ADDITIONAL SIDELAPS SHALL BE PROVIDED TO INCREASE SIDELAPS TO 12/SPAN.
9. OPENING THROUGH CONTAINER FLOOR AND ROOF; SEE DETAILS 6/ AND 7/S341.
10. PROVIDE 1 1/2" ROOF DECK PER GENERAL NOTES, EXCEPT INCREASE ATTACHMENT TO 36/5 AND 6 SIDELAP CONNECTIONS PER SPAN.
11. AT SMALL OPENING THROUGH ROOF ONLY, WELD ENDS OF CHANNEL AND L3x3 TO C6, END PANEL, OR SIDE RAIL WITH 3/16" FILLET WELD EE, TYP.
12. WHERE SHOWN, ADD MIN 20GA OR 1/8" THICK SHEET STEEL, CONNECTED TO CONTAINER WITH ADDED 3/8" PUDDLE WELD AT 6" OC AT EDGES AND 12" OC IN FIELD. STOP EITHER SIDE OF COLUMNS. SEE 9/S341.
13. SEE DETAILS ON S341 FOR CONNECTIONS OF CONTAINERS AT CORNERS.
14. CONTAINER DOOR TO REMAIN CLOSED UNLESS NOTED.
15. REINFORCED HANDRAIL AT INTERIOR. SEE DETAIL 11/S342.
16. (X) INDICATES ANCHOR POINT PER 8/S342.
17. (X) INDICATES ANCHOR AT EDGE OF OPENING PER 7/S341.
18. ADD 2x4 HANGER AT LOCATION NOTED AT 42" AND 24" ABOVE FINISHED FLOOR. PROVIDE SIMPSON STRONG TIE APLH2x4 14-GA CONCEALED HOIST HANGER, OR APPROVED EQUAL. ATTACH WITH (6) #10 SCREWS PER MANFR GUIDELINES.
19. SEE DETAILS ON S341 FOR REINFORCEMENT AT DOOR AND WINDOW OPENING LOCATIONS.



2 S322 FOURTH LEVEL FRAMING PLAN - TRAINING TOWER

1/4" = 1'-0"

NOTES:

1. FINISHED FLOOR ELEVATION =128'-7 1/2"
2. FLOOR OF SHIPPING CONTAINERS TO SERVE AS FINISHED FLOOR, UNO.
3. ALL ROOF OPENINGS TO RECEIVE ANGLE FRAME PER TYPICAL DETAILS. SOME ROOF OPENINGS MAY NOT BE SHOWN ON STRUCTURAL DRAWINGS. VERIFY SIZE & LOCATION OF ALL OPENINGS w/ MECH CONTRACTOR.
4. STANDING SEAM METAL DECK, ATTACHMENT AND DESIGN BY OTHERS FOR LOADS NOTED IN GENERAL NOTES.
5. FOR GENERAL NOTES & TYPICAL DETAILS SEE SHEETS S001 THRU S008.
6. SHIPPING CONTINER TO MEET TYPE 1AAA SPECIFICATIONS.
7. BAR GRATING PER GENERAL NOTES.
8. NOTE INTENTIONALLY LEFT BLANK.
9. OPENING THROUGH CONTAINER FLOOR AND ROOF; SEE DETAILS 6/ AND 7/S341.
10. PROVIDE 1 1/2" ROOF DECK PER GENERAL NOTES, EXCEPT INCREASE ATTACHMENT TO 36/5 AND 6 SIDELAP CONNECTIONS PER SPAN.
11. AT SMALL OPENING THROUGH ROOF ONLY, WELD ENDS OF CHANNEL AND L3x3 TO C6, END PANEL, OR SIDE RAIL WITH 3/16" FILLET WELD EE, TYP.
12. SEE DETAILS ON SHEET S341 FOR CONNECTIONS OF CONTAINERS AT CORNERS.
13. CONTAINER END DOOR TO REMAIN CLOSED UNLESS NOTED.
14. REINFORCED HANDRAIL AT INTERIOR. SEE DETAIL 11/S342.
15. (X) INDICATES ANCHOR POINT PER 8/S342.
16. (X) INDICATES ANCHOR AT EDGE OF OPENING PER 7/S341.
17. ADD 2x4 HANGER AT LOCATION NOTED AT 42" AND 24" ABOVE FINISHED FLOOR. PROVIDE SIMPSON STRONG TIE APLH2x4 14-GA CONCEALED HOIST HANGER, OR APPROVED EQUAL. ATTACH WITH (6) #10 SCREWS PER MANFR GUIDELINES.
18. SEE DETAILS ON S341 FOR REINFORCEMENT AT DOOR AND WINDOW OPENING LOCATIONS.

SCALE: 3" = 1'-0" / SCALE: 1 1/2" = 1'-0" / SCALE: 1" = 1'-0" / SCALE: 3/4" = 1'-0" / SCALE: 3/8" = 1'-0" / SCALE: 1/4" = 1'-0" / SCALE: 1/8" = 1'-0" / SCALE: 3/32" = 1'-0" / SCALE: 1/16" = 1'-0"

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360/340 ECOLOGY DRIVE
ST. PETERS, MO 63376

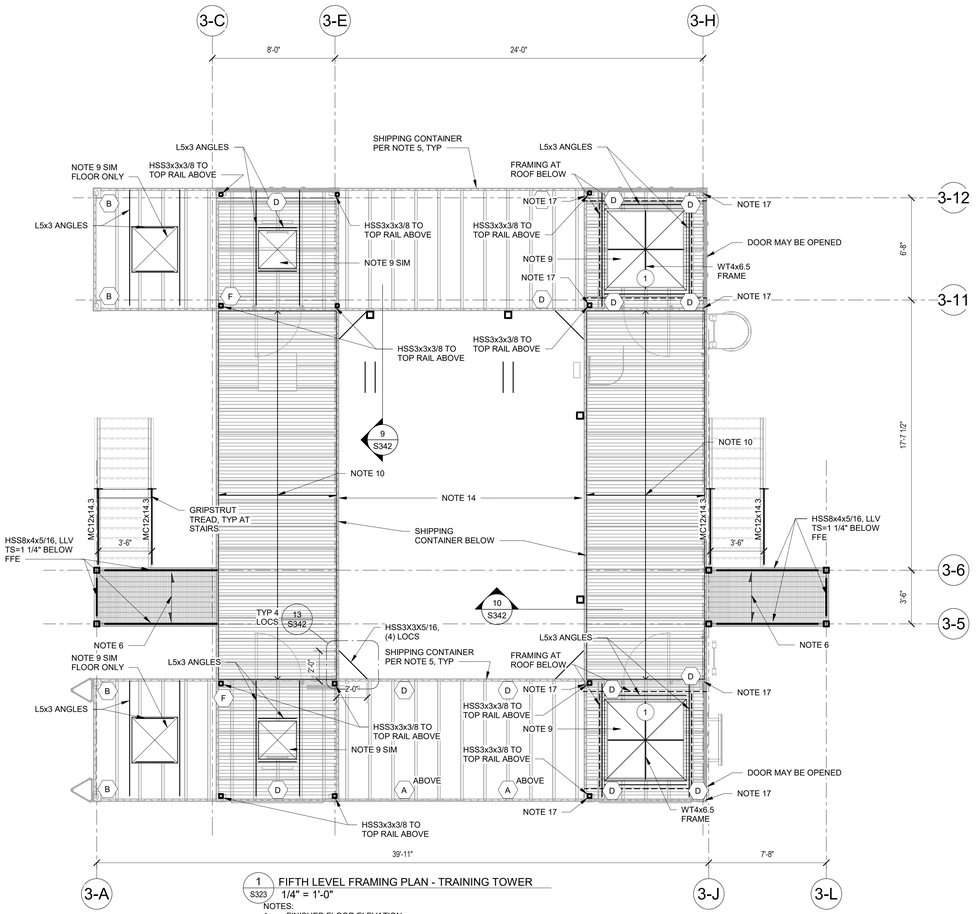
No.	Date	Revision

3RD & 4TH LEVEL FRAMING PLANS

Project No.
2400235

Sheet No.
S322

Date
09/16/2025



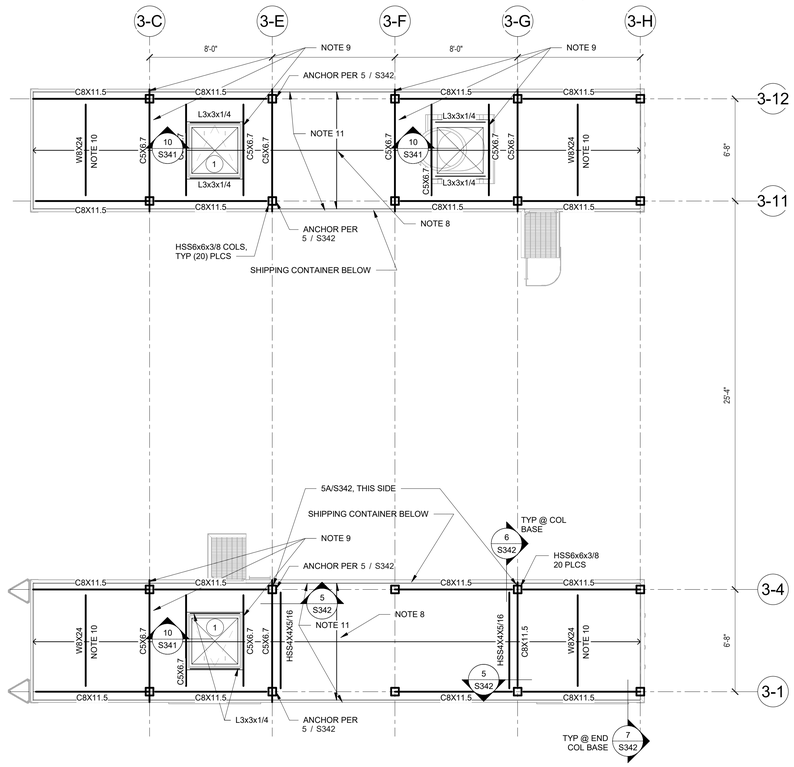
1 S323 FIFTH LEVEL FRAMING PLAN - TRAINING TOWER
1/4" = 1'-0"

NOTES:
1. FINISHED FLOOR ELEVATION =
2. FLOOR OF SHIPPING CONTAINERS TO SERVE AS FINISHED FLOOR, UNO.
3. ALL ROOF OPENINGS TO RECEIVE ANGLE FRAME PER TYPICAL DETAILS. SOME ROOF OPENINGS MAY NOT BE SHOWN ON STRUCTURAL DRAWINGS. VERIFY SIZE & LOCATION OF ALL OPENINGS w/ MECH CONTRACTOR.
4. FOR GENERAL NOTES & TYPICAL DETAILS SEE SHEETS S001 THRU S008.
5. SHIPPING CONTINER TO MEET TYPE 1AAA SPECIFICATIONS WITH ALLOWABLE SIDEWALL CAPACITIES OF 84PLF AND ENDWALL CAPACITIES OF 843PLF.
6. BAR GRATING PER GENERAL NOTES.
7. NOTE INTENTIONALLY LEFT BLANK.
8. NOTE INTENTIONALLY LEFT BLANK.
9. OPENING THROUGH CONTAINER FLOOR AND ROOF; SEE DETAILS 6 AND 7 ON SHEET S341.
10. PROVIDE 1 1/2" ROOF DECK PER GENERAL NOTES, EXCEPT INCREASE ATTACHMENT TO 36/5 AND 6 SIDELAP CONNECTIONS PER SPAN.
11. AT SMALL OPENING THROUGH ROOF ONLY, WELD ENDS OF CHANNEL AND L3x3 TO C6, END PANEL, OR SIDE RAIL WITH 3/16" FILLET WELD EE, TYP.
12. SEE DETAILS ON SHEET S341 FOR CONNECTIONS AT CONTAINER CORNERS.
13. CONTAINER END DOOR TO REMAIN CLOSED UNLESS NOTED.
14. REINFORCED HANDRAIL AT INTERIOR. SEE DETAIL 11/S342.

15. (X) INDICATES ANCHOR POINT PER 8/S342.

16. (X) INDICATES ANCHOR AT EDGE OF OPENING PER 7/S341.

17. ADD 2x4 HANGER AT LOCATION NOTED AT 42" AND 24" ABOVE FINISHED FLOOR. PROVIDE SIMPSON STRONG TIE APLH2x4 14-GA CONCEALED HOIST HANGER, OR APPROVED EQUAL. ATTACH WITH (6) #10 SCREWS PER MANFR GUIDELINES.
18. SEE DETAILS ON S341 FOR REINFORCEMENT AT DOOR AND WINDOW OPENING LOCATIONS.



2 S323 SIXTH LEVEL FRAMING PLAN - TRAINING TOWER
1/4" = 1'-0"

NOTES:
1. FINISHED FLOOR ELEVATION = 147'-8 1/2"
2. FLOOR OF SHIPPING CONTAINERS TO SERVE AS FINISHED FLOOR, UNO.
3. ALL ROOF OPENINGS TO RECEIVE ANGLE FRAME PER TYPICAL DETAILS. SOME ROOF OPENINGS MAY NOT BE SHOWN ON STRUCTURAL DRAWINGS. VERIFY SIZE & LOCATION OF ALL OPENINGS w/ MECH CONTRACTOR.
4. FOR GENERAL NOTES & TYPICAL DETAILS SEE SHEETS S001 THRU S008.
5. NOTE INTENTIONALLY LEFT BLANK.
6. NOTE INTENTIONALLY LEFT BLANK.
7. OPENING THROUGH CONTAINER FLOOR AND ROOF; SEE DETAILS 6/ AND 7/S341.
8. PROVIDE 1 1/2" ROOF DECK PER GENERAL NOTES, EXCEPT INCREASE ATTACHMENT TO 36/5 AND 6 SIDELAP CONNECTIONS PER SPAN.
9. AT SMALL OPENING THROUGH ROOF ONLY, WELD ENDS OF CHANNEL AND L3x3 TO C6, END PANEL, OR SIDE RAIL WITH 3/16" FILLET WELD EE, TYP.
10. SEE 9/S342 FOR CONNECTION AND TOP OF STEEL ELEVATION.
11. REINFORCED HANDRAIL AT BOTH SIDES OF CONTAINERS; SEE DETAIL 11/S342.

12. (X) INDICATES ANCHOR AT EDGE OF OPENING PER 7/S341.

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No.	Date	Revision

5TH & 6TH LEVEL FRAMING PLANS

Project No.
2400235

Sheet No.
S323

Date
09/16/2025

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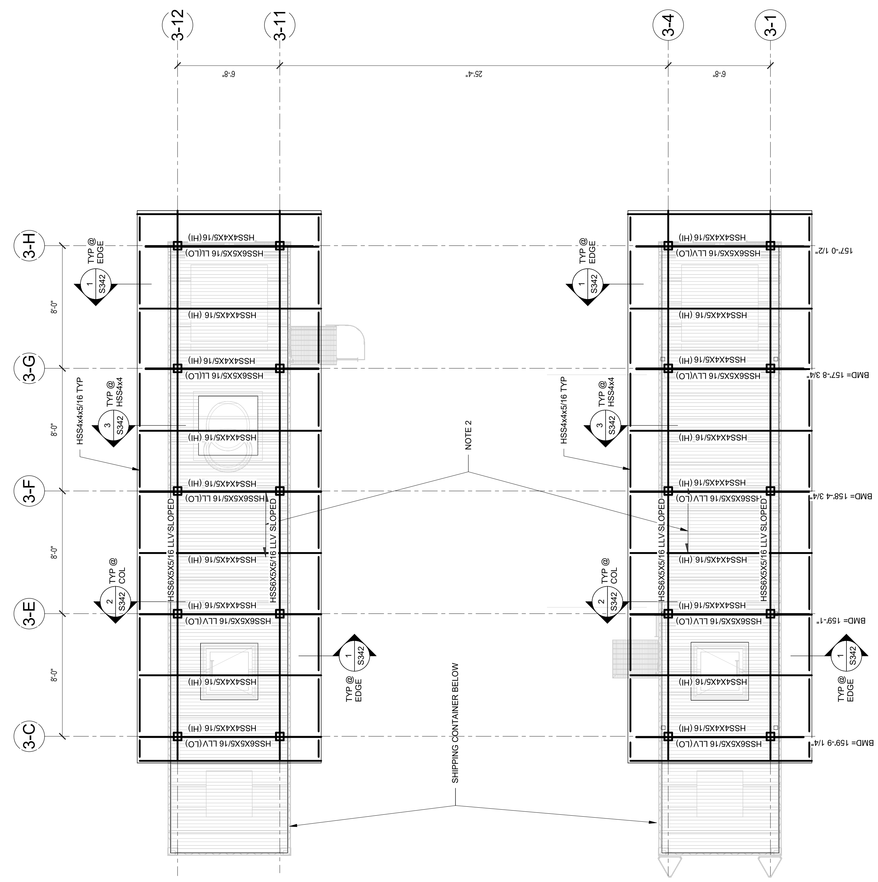

1 S324 ROOF FRAMING PLAN - TRAINING TOWER
1/4" = 1'-0"

NOTES:
1. BOTTOM OF METAL DECK EL (BMD) VARIES. SEE PLAN.
2. ROOF DECK TO BE STANDING SEAM METAL DECK. ATTACHMENT AND DESIGN BY OTHERS FOR LOADS NOTED IN GENERAL NOTES.
3. ALL ROOF OPENINGS TO RECEIVE ANGLE FRAME PER TYPICAL DETAILS. SOME ROOF OPENINGS MAY NOT BE SHOWN ON STRUCTURAL DRAWINGS. VERIFY SIZE & LOCATION OF ALL OPENINGS w/ MECH CONTRACTOR.
4. FOR GENERAL NOTES & TYPICAL DETAILS SEE SHEETS S001 THRU S008.

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ROOF FRAMING PLAN

No.	Date	Revision

Project No. 2400235
Sheet No. S324
Date 09/16/2025

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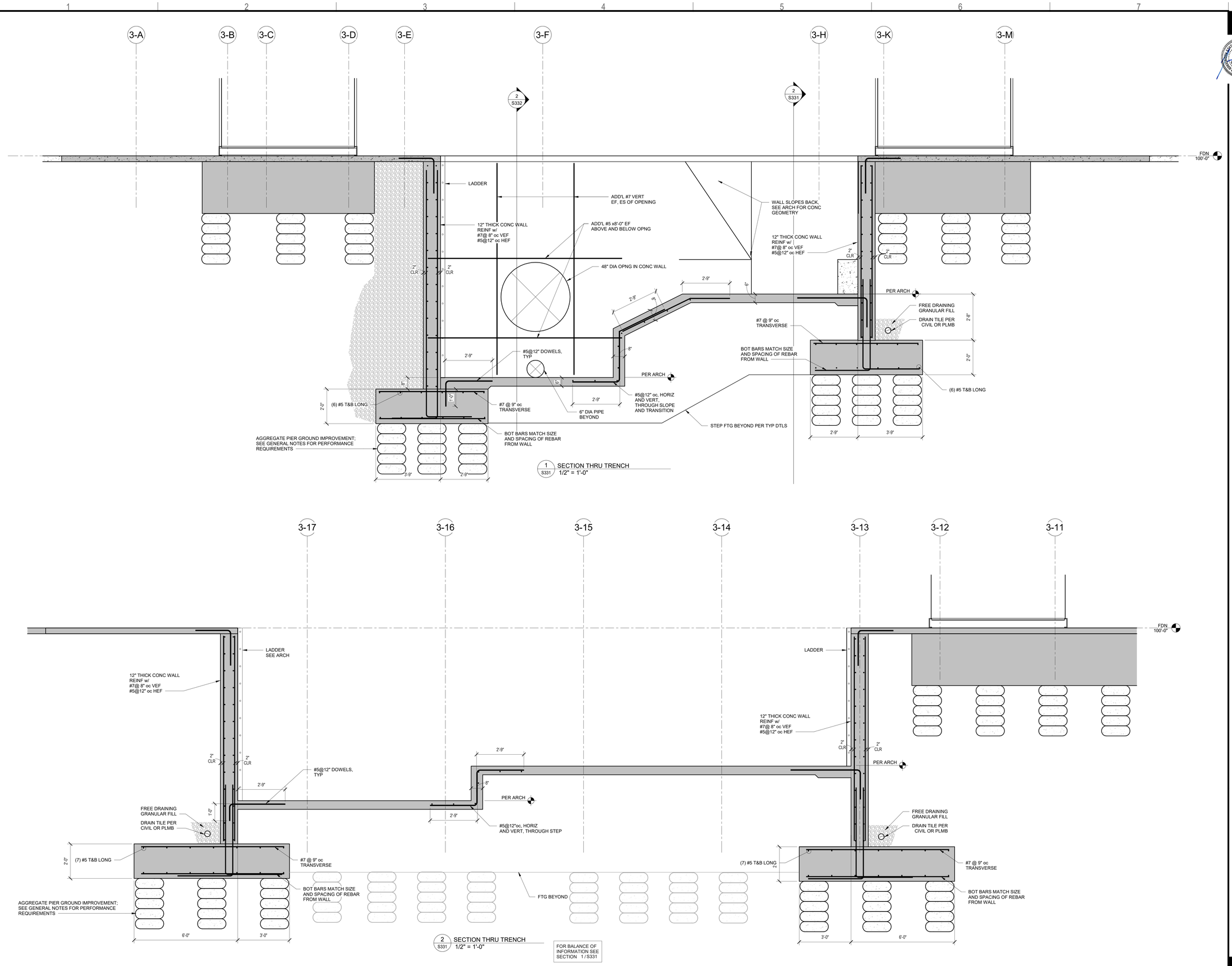

SCALE: 3" = 1'-0" 0 3" 6" 1'
SCALE: 1 1/2" = 1'-0" 0 3" 6" 1' 2'
SCALE: 1" = 1'-0" 0 6" 1' 2'
SCALE: 3/4" = 1'-0" 0 1' 3'
SCALE: 1/2" = 1'-0" 0 1' 2' 4'
SCALE: 3/8" = 1'-0" 0 2' 4' 6'
SCALE: 1/4" = 1'-0" 0 2' 4' 8'
SCALE: 1/8" = 1'-0" 0 4' 8' 16'
SCALE: 3/32" = 1'-0" 0 8' 16' 24'
SCALE: 1/16" = 1'-0" 0 8' 16' 32'

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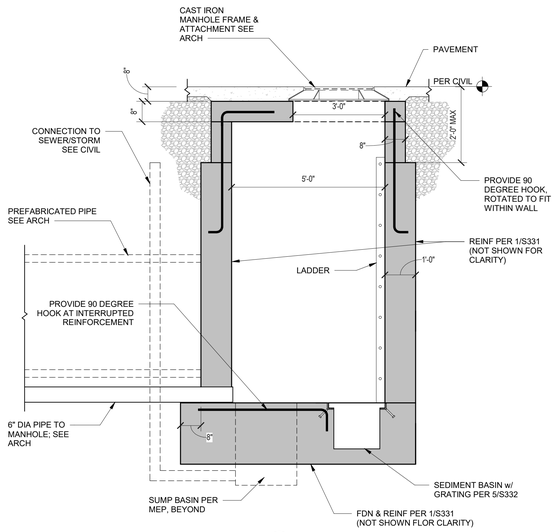
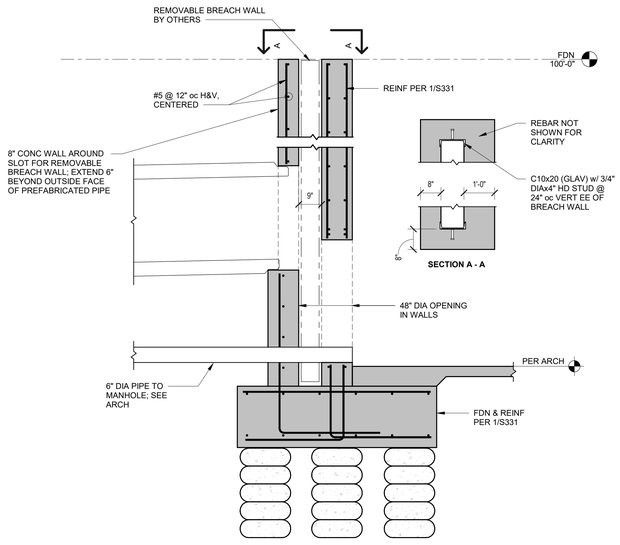
No.	Date	Revision

TRENCH SECTIONS & DETAILS

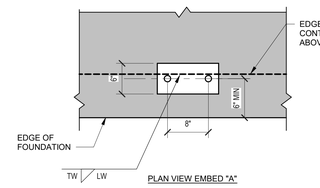
Project No. 2400235
Sheet No. S331
Date 09/16/2025



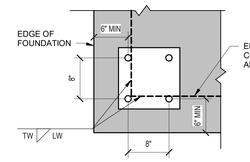
3 / S332 SECTION @ MANHOLE
1/2" = 1'-0"



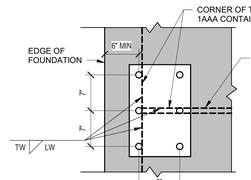
2 / S332 SECTION THRU BREACH WALL AND PIPE
1/2" = 1'-0"



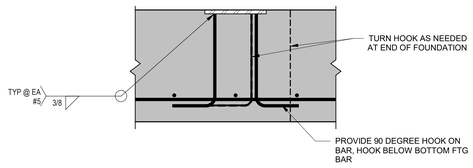
PLAN VIEW EMBED "A"



PLAN VIEW EMBED "B"



PLAN VIEW EMBED "C"

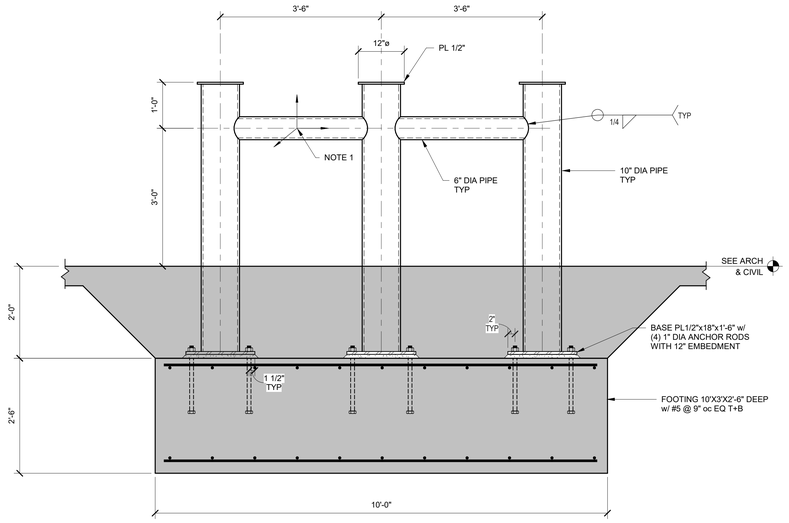


DETAIL AT EMBED PL

EMBED MARK	SIZE	REBAR	WELD SIZE TW	WELD LENGTH LW
A	1/2"x6"x1'-0"	(2) #5	5/16"	6"
B	1/2"x12"x1'-0"	(4) #5	5/16"	6" (2 LOCS)
C	1/2"x12"x1'-6"	(6) #5	5/16"	6" (3 LOCS)

1 / S332 EMBED SCHEDULE AT CONTAINERS
1" = 1'-0"

5 / S332 GRATING OVER SEDIMENT PIT AT ELEVATOR DETAIL
1 1/2" = 1'-0"



NOTES:
1. ANCHOR POINT HAS BEEN DESIGNED FOR 10KIP ULTIMATE LOAD, IN ANY DIRECTION. ONLY ONE LOAD OF THIS NATURE MAY BE APPLIED TO THIS SET OF PIPES AT ANY TIME.

4 / S332 PIPE ANCHOR
3/4" = 1'-0"

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380/340 ECOLOGY DRIVE

No.	Date	Revision

FOUNDATION SECTIONS & DETAILS

Project No.
2400235

Sheet No.
S332

Date
09/16/2025

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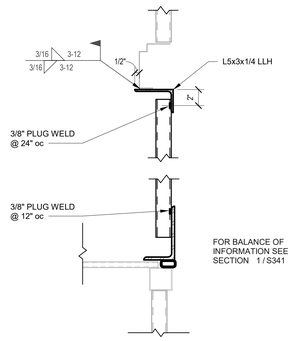
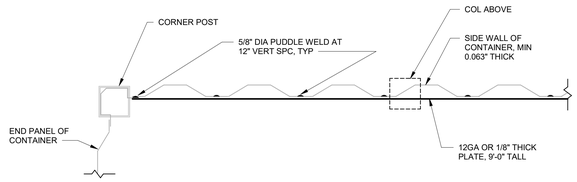
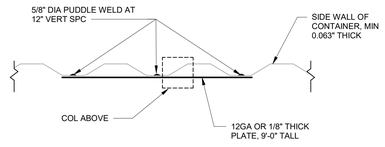


3 / S341 ATTACHMENT OF VERT CORRUGATED WALLS
1 1/2" = 1'-0"



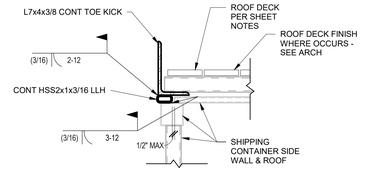
PLAN VIEW

2B / S341 TYPICAL REINFORCEMENT AT SIDE WALL END BAYS AT NORTH TOWER
1 1/2" = 1'-0"

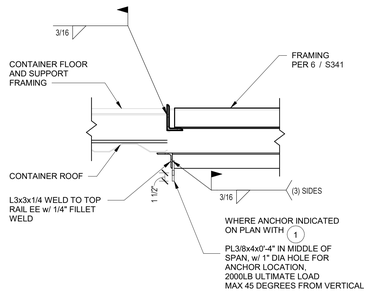


PLAN VIEW

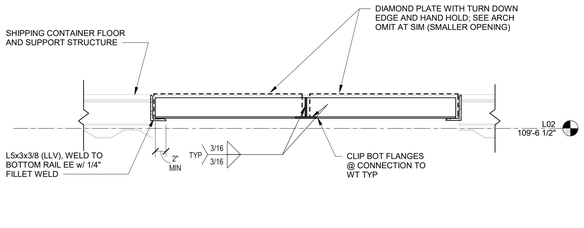
2A / S341 TYPICAL REINFORCEMENT @ SIDE WALL AT NORTH TOWER
1 1/2" = 1'-0"



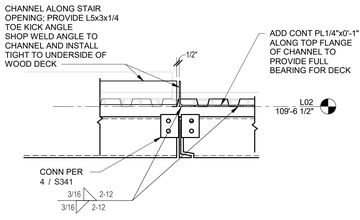
1 / S341 SECTION @ ROOF DECK
1 1/2" = 1'-0"



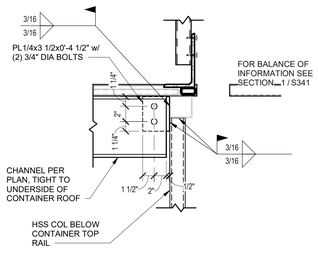
7 / S341 DETAIL THRU CONTAINER LID @ OPENING
1" = 1'-0"



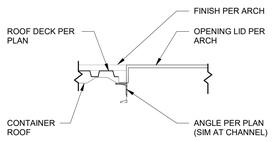
6 / S341 DETAIL THRU CONTAINER FLOOR @ OPENING
1" = 1'-0"



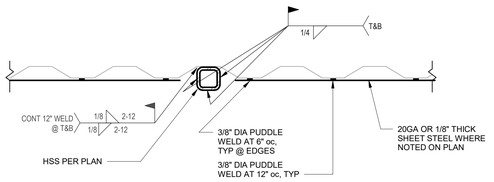
5 / S341 DETAIL THRU CHANNEL CONN @ STAIR
1" = 1'-0"



4 / S341 DETAIL THROUGH CHANNEL CONN AT STAIR
1 1/2" = 1'-0"

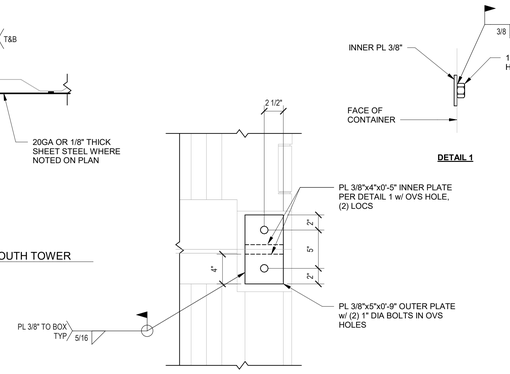


10 / S341 OPENING THROUGH ROOF ONLY
3/4" = 1'-0"

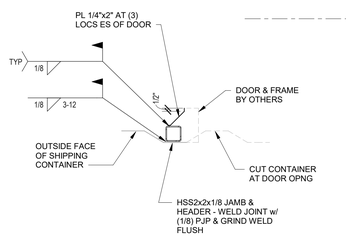


PLAN VIEW

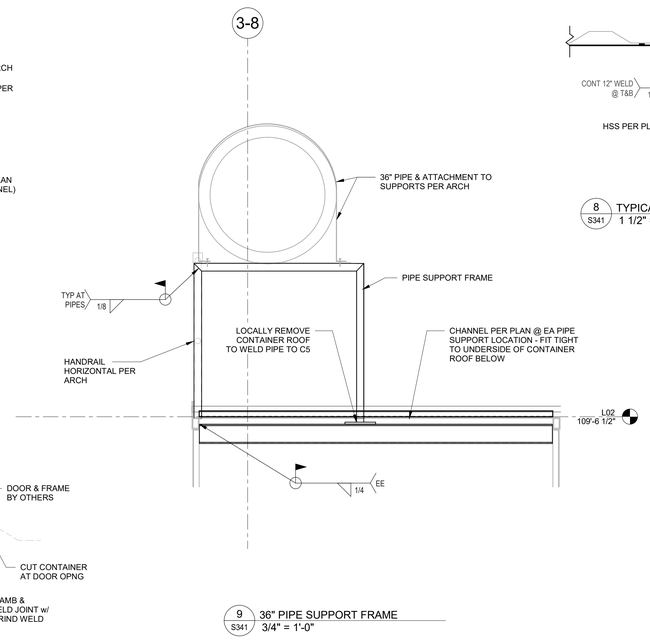
8 / S341 TYPICAL SIDEWALL AND ENDWALL REINFORCEMENT AT SOUTH TOWER
1 1/2" = 1'-0"



2 / S341 CONNECTIONS OF CONTAINERS AT CORNERS
1 1/2" = 1'-0"



11 / S341 TYPICAL JAMB @ DOOR OPENING (WINDOW SIMILAR)
1 1/2" = 1'-0"



9 / S341 36" PIPE SUPPORT FRAME
3/4" = 1'-0"

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ST. PETERS, MO 63376
360/340 ECOLOGY DRIVE

No.	Date	Revision

FRAMING SECTIONS & DETAILS

Project No.
2400235

Sheet No.
S341

Date
09/16/2025

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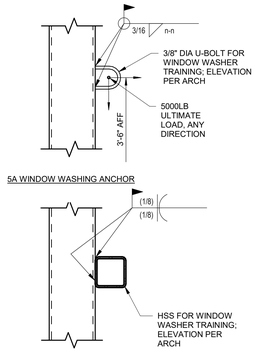
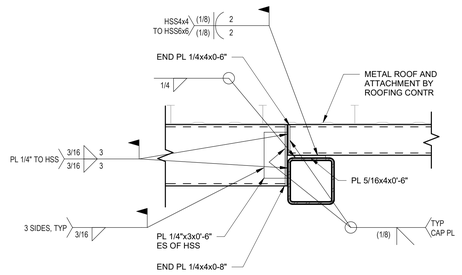
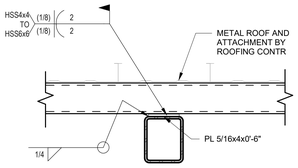
Autodesk Docs://Central County F&R Rescue Tower/2400235 Central County F&R Rescue Tower v23 STRUC.rvt



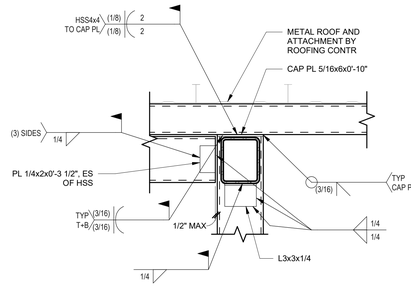
5 S342 DETAIL AT WINDOW WASHING HSS
1 1/2" = 1'-0"



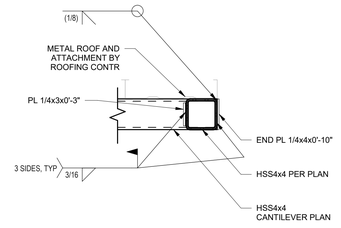
4 S342 DETAIL AT ROOF BEAMS
1 1/2" = 1'-0"



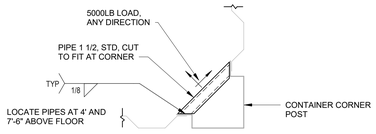
3 S342 DETAIL AT HIGH/LOW BEAM
1 1/2" = 1'-0"



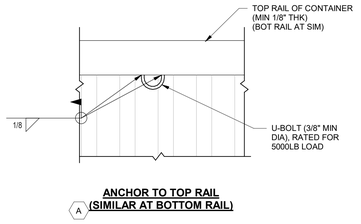
2 S342 DETAIL AT ROOF COLUMN
1 1/2" = 1'-0"



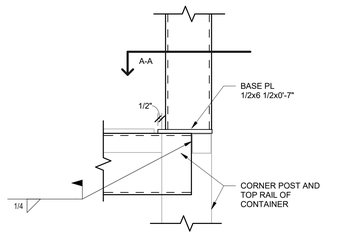
1 S342 DETAIL AT ROOF EDGE
1 1/2" = 1'-0"

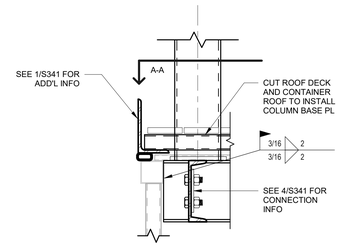


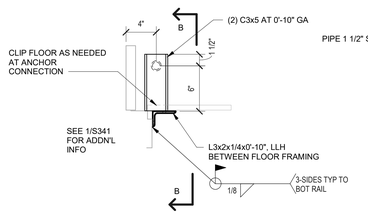
B ANCHOR TO CORNER POST

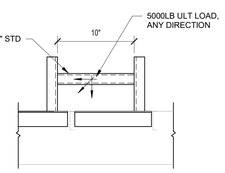


A ANCHOR TO TOP RAIL (SIMILAR AT BOTTOM RAIL)



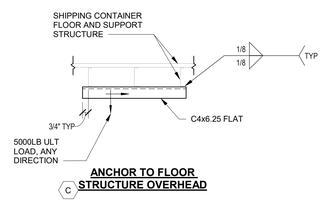




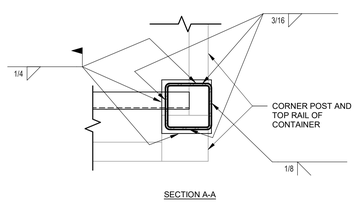


SECTION B - B

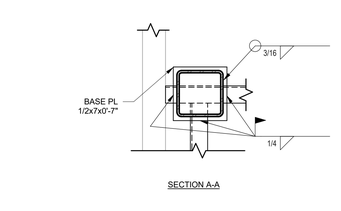
D ANCHOR TO FLOOR



C ANCHOR TO FLOOR STRUCTURE OVERHEAD



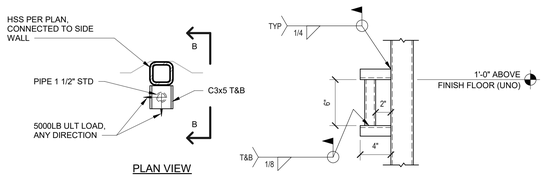
SECTION A-A

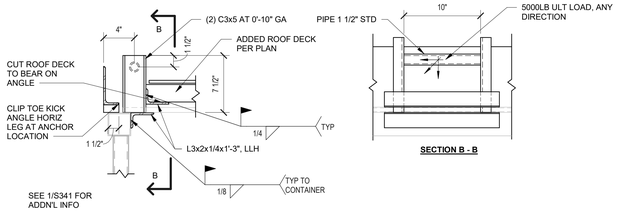


SECTION A-A

7 S342 DETAIL AT END ROOF COLUMN BASE
1 1/2" = 1'-0"

6 S342 DETAIL AT ROOF COLUMN BASE
1 1/2" = 1'-0"

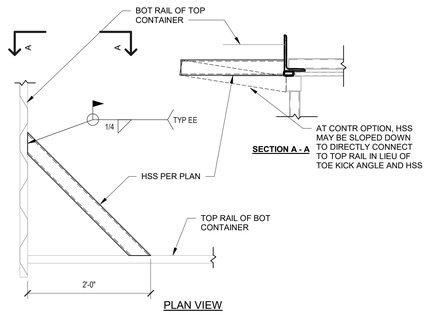


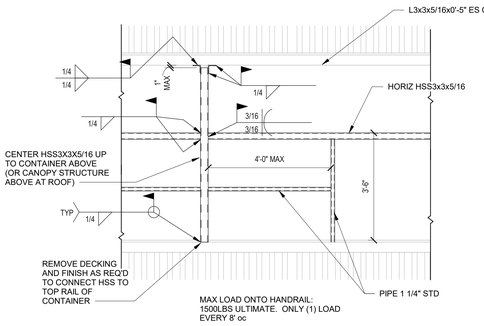


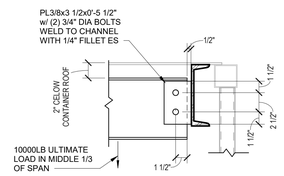
E ANCHOR TO ROOF EDGE

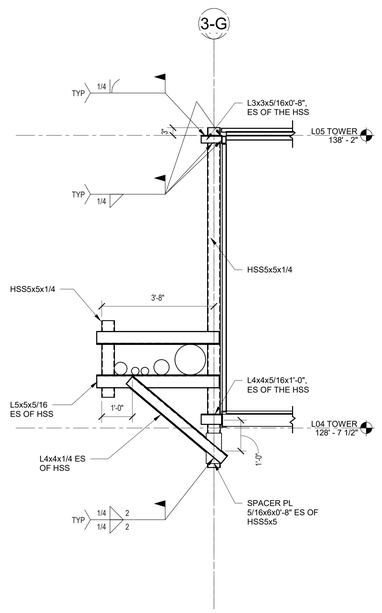
F ANCHOR TO HSS @ SIDEWALL

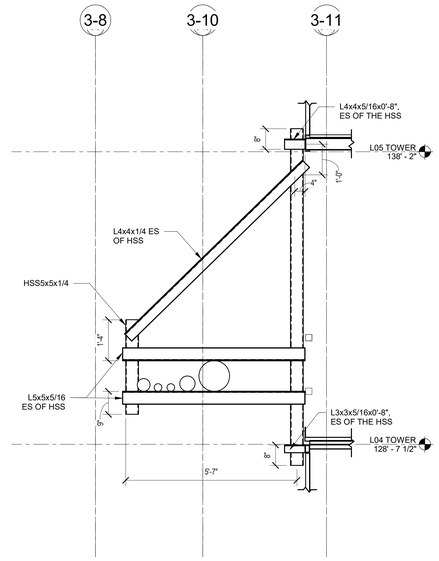
8 S342 TYPICAL ANCHOR POINTS AND CONNECTIONS
1 1/2" = 1'-0"











13 S342 TYPICAL BOX CORNER BRACE
1" = 1'-0"

12 S342 REINFORCED HANDRAIL DETAIL
1/2" = 1'-0"

11 S342 W8 HOIST BEAM CONNECTION
1 1/2" = 1'-0"

10 S342 PIPE SUPPORT LEVEL 4
1/2" = 1'-0"

9 S342 PIPE SUPPORT LEVEL 4
1/2" = 1'-0"

SCALE: 3" = 1'-0" | SCALE: 1 1/2" = 1'-0" | SCALE: 1" = 1'-0" | SCALE: 3/4" = 1'-0" | SCALE: 1/2" = 1'-0" | SCALE: 3/8" = 1'-0" | SCALE: 1/4" = 1'-0" | SCALE: 1/8" = 1'-0" | SCALE: 3/32" = 1'-0" | SCALE: 1/16" = 1'-0"

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Proposed:
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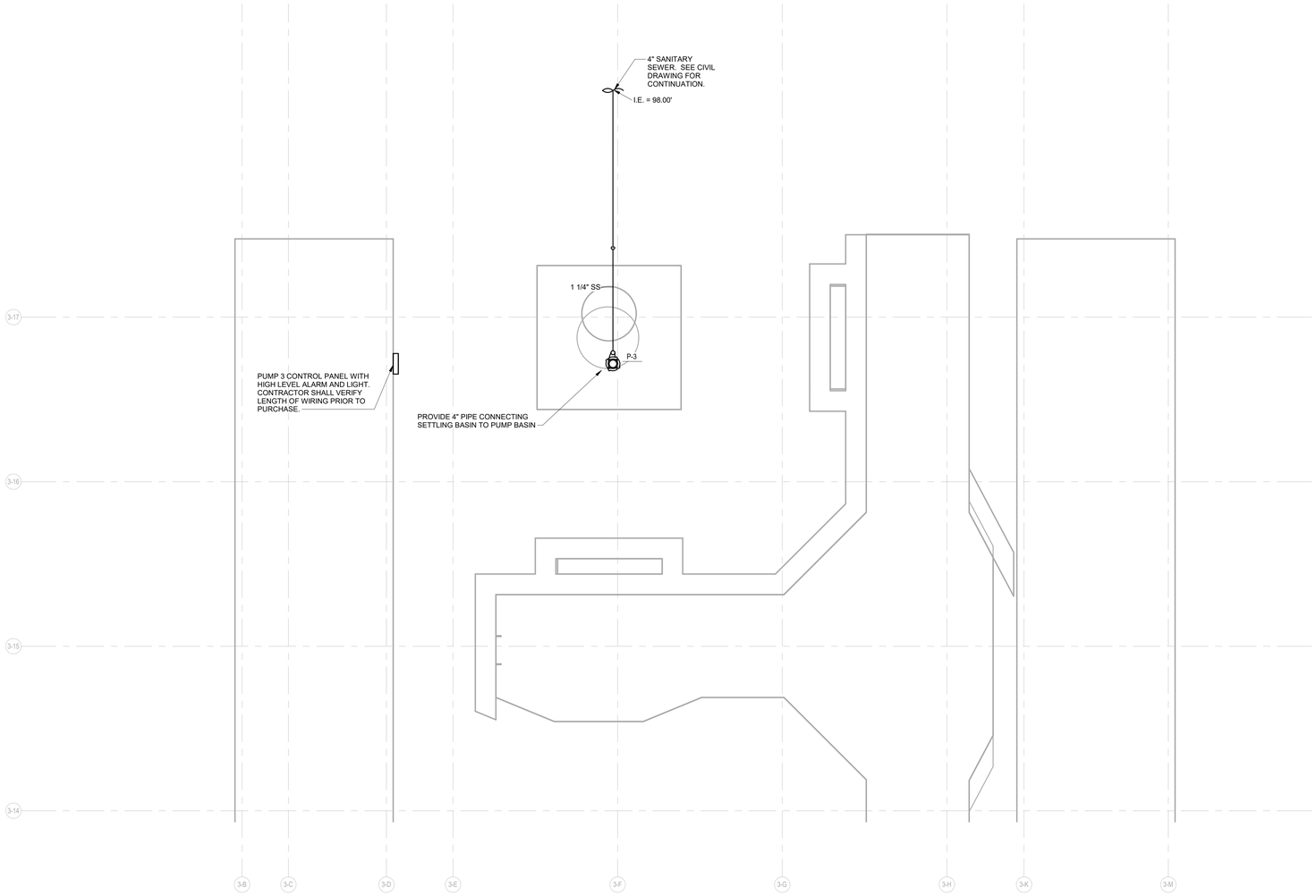
ST. PETERS, MO 63376
360/340 ECOLOGY DRIVE

No.	Date	Revision

FRAMING SECTIONS & DETAILS

Project No. 2400235
Sheet No. S342
Date 09/16/2025



1 TOWER UNDERFLOOR PLUMBING PLAN

3/8" = 1'-0"

0 1'-4" 2'-8" 5'-4"

SCALE: 3/8" = 1'-0"

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EXPIRATION DATE: DECEMBER 31, 2026

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CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE

360/340 ECOLOGY DRIVE ST. PETERS, MO 63376

No.	Date	Revision

TOWER UNDERFLOOR PLUMBING PLAN

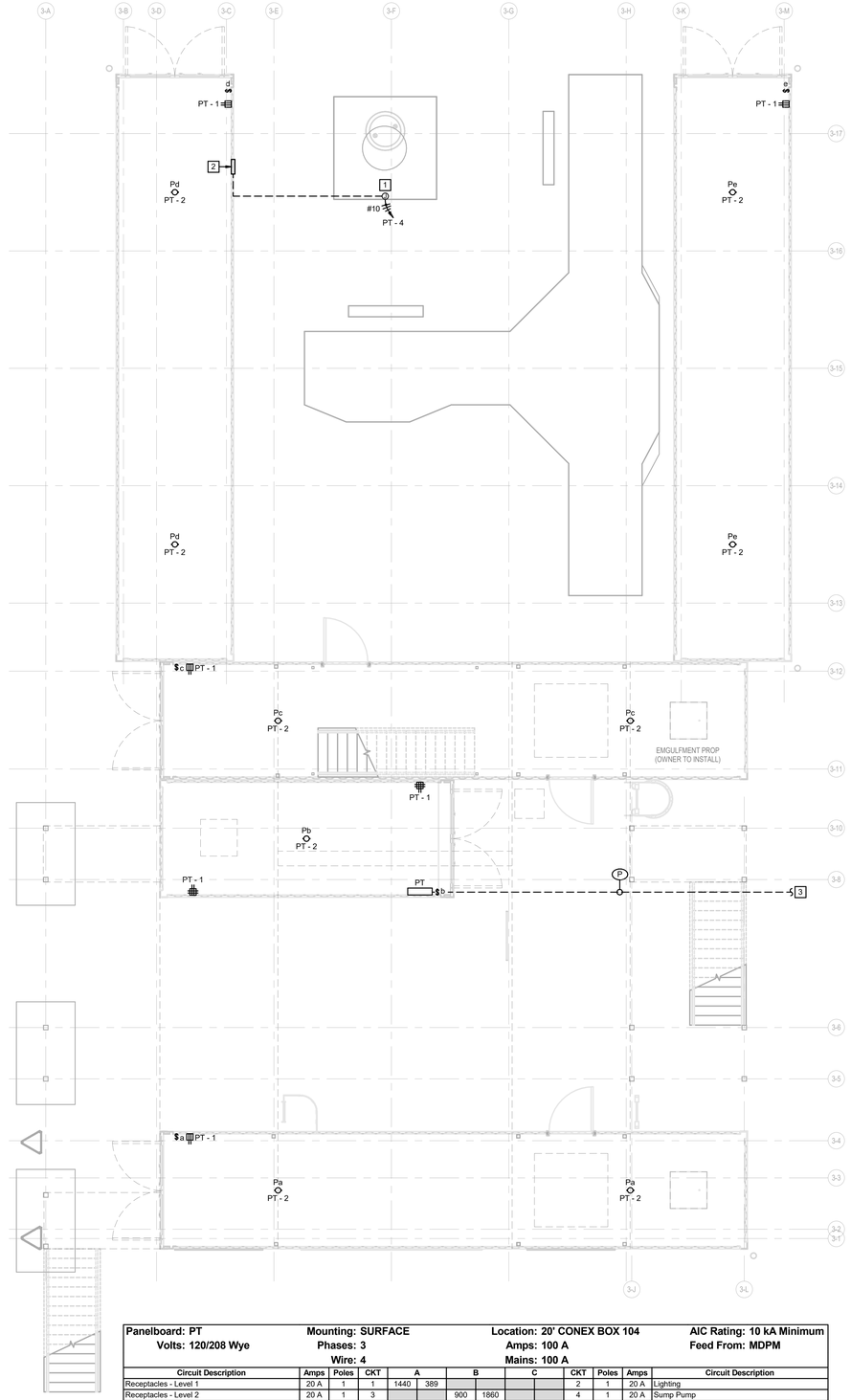
Project No. 23121

Sheet No. P320

Date 09/16/2025

E321 KEYED NOTES

1. PROVIDE 1/2" CONDUIT FROM PANEL PT FOR PUMP P-3 POWER. SEE PLUMBING PLANS FOR EXACT LOCATION.
2. CONNECT PUMP P-3 TO PUMP CONTROL PANEL. SEE PLUMBING PLANS FOR EXACT LOCATION.
3. SEE ELECTRICAL SITE PLAN SHEET E006 FOR CONTINUATION.

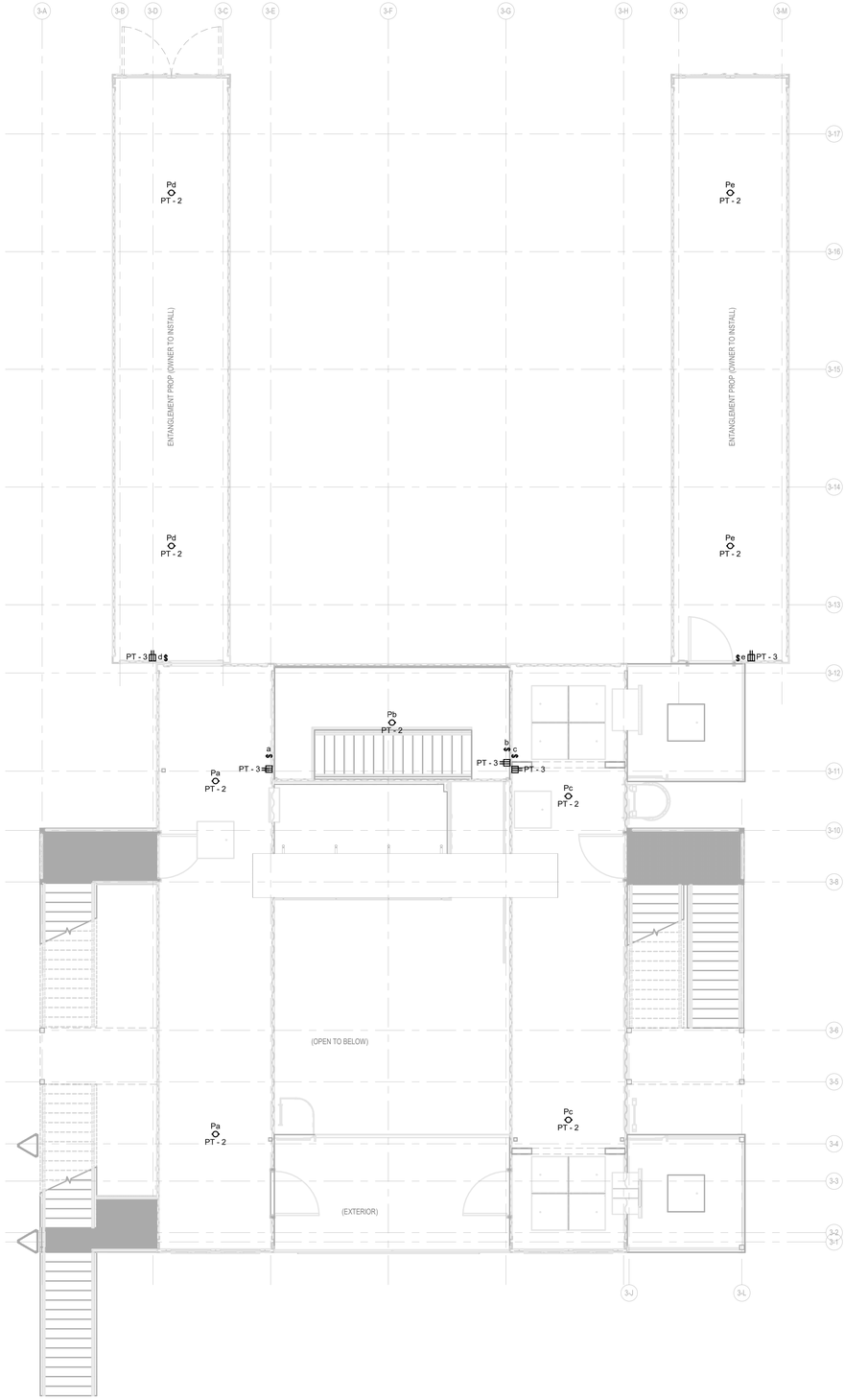


Panelboard: PT	Mounting: SURFACE	Location: 20' CONEX BOX 104	AIC Rating: 10 kA Minimum
Volts: 120/208 Wye	Phases: 3	Amps: 100 A	Feed From: MDPM
	Wire: 4	Mains: 100 A	

Circuit Description	Amps	Poles	CKT	A		B		C		CKT	Poles	Amps	Circuit Description
Receptacles - Level 1	20 A	1	1	1440	389					2	1	20 A	Lighting
Receptacles - Level 2	20 A	1	3			900	1860			4	1	20 A	Sump Pump
Receptacles - Levels 3 & 4	20 A	1	5					720	0	6	1	20 A	SPARE
Receptacles - Level 5 & 6	20 A	1	7	1080	0					8	1	20 A	SPARE
SPARE	20 A	1	9			0	0			10	1	20 A	SPARE
SPARE	20 A	1	11					0	0	12	1	20 A	SPARE
	Phase Load:			2.91 kW		2.76 kW		0.72 kW					
	Phase Amps:			26.83 A		25.62 A		6.00 A					
	Total Load:					6.39 kW							
	Total Amps:					17.72 A							

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

0 2'-0" 4'-0" 8'-0"
SCALE: 1/4" = 1'-0"



2 TOWER ELECTRICAL SECOND FLOOR PLAN
1/4" = 1'-0"

0 2'-0" 4'-0" 8'-0"
SCALE: 1/4" = 1'-0"

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No.	Date	Revision

TOWER ELECTRICAL FIRST FLOOR PLAN

Project No. 23121

Sheet No. E321

Date 09/16/2025

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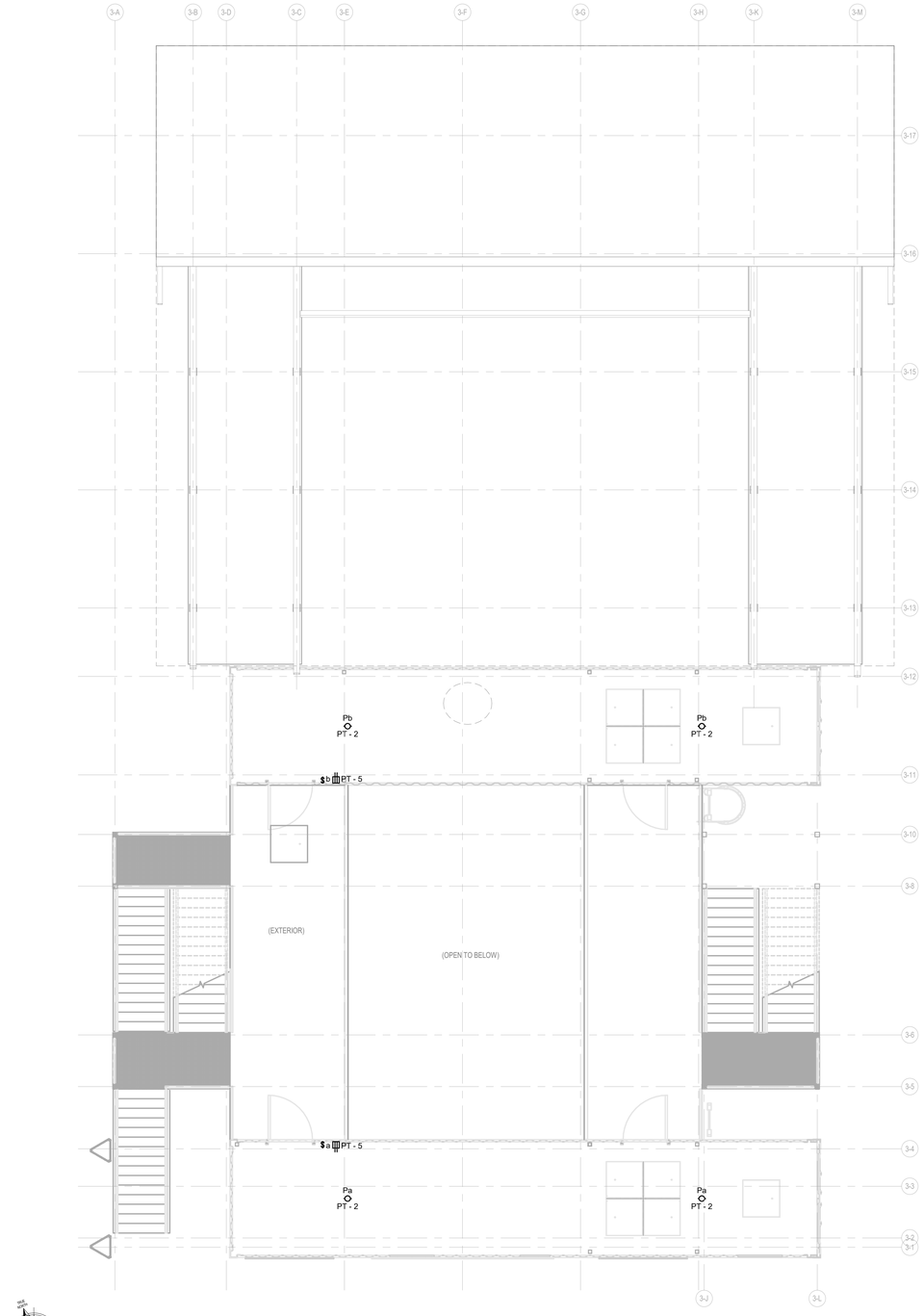
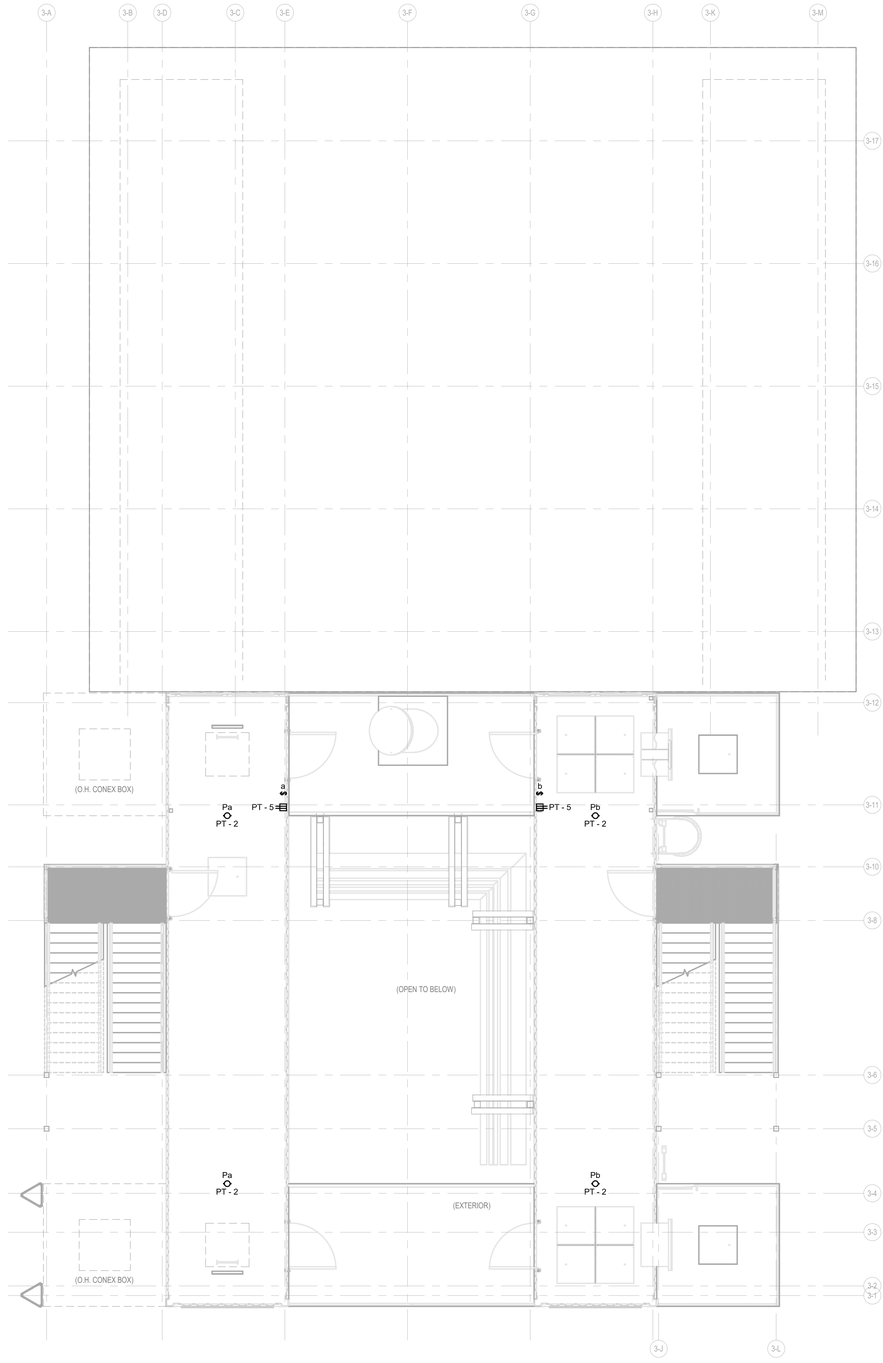


1 TOWER ELECTRICAL THIRD FLOOR PLAN
1/4" = 1'-0"



2 TOWER ELECTRICAL FOURTH FLOOR PLAN
1/4" = 1'-0"

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TOWER ELECTRICAL THIRD FLOOR PLAN

Project No. 23121
Sheet No. E322
Date 09/16/2025

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No.	Date	Revision

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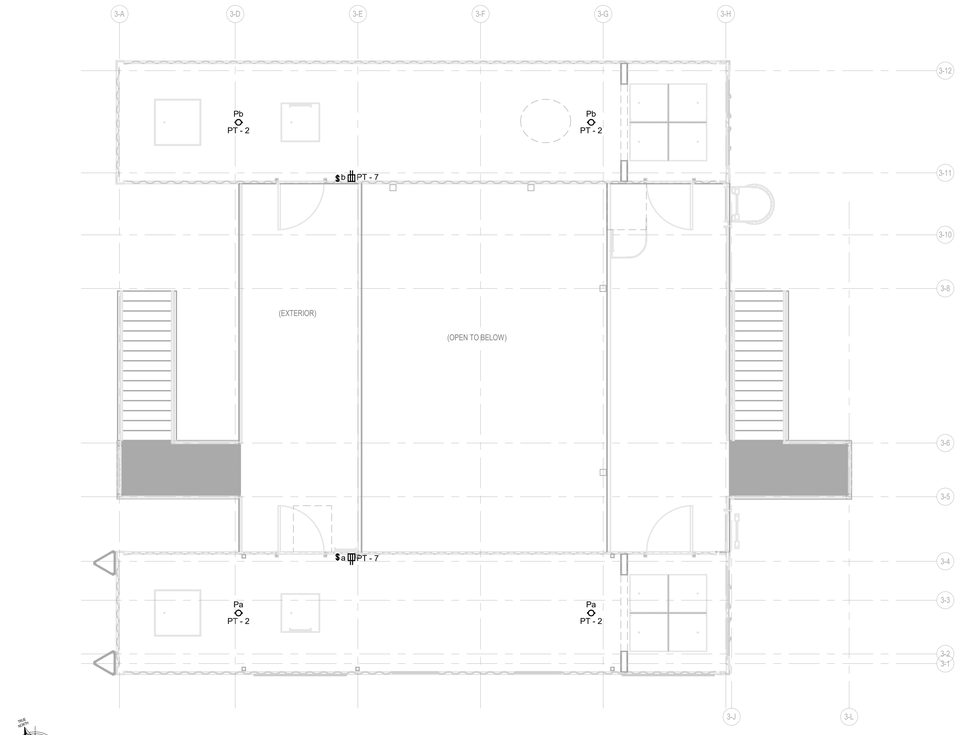
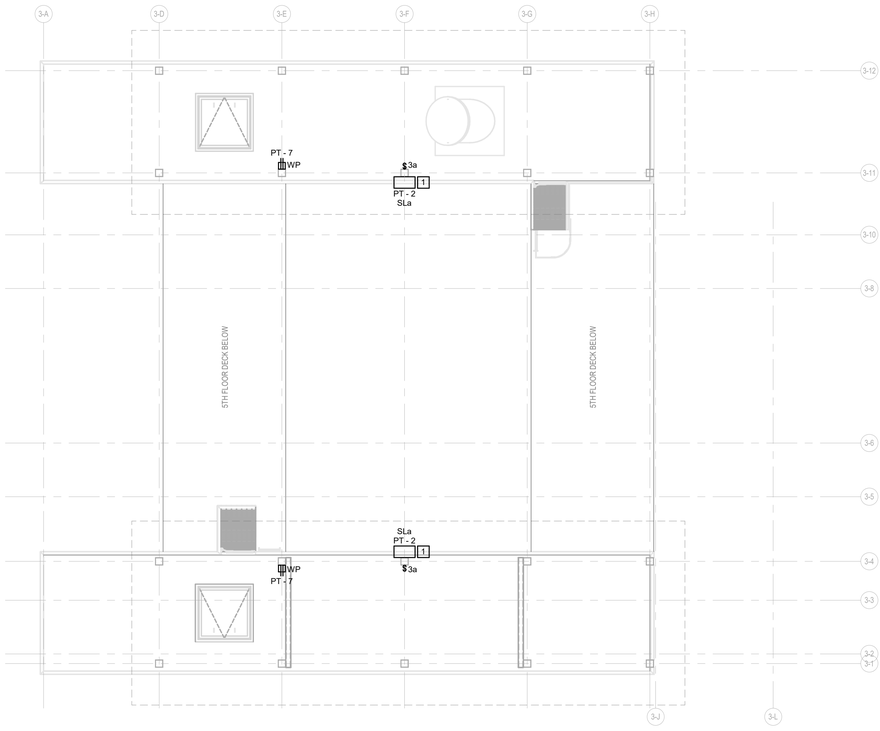
E323 KEYED NOTES

1 MOUNT FIXTURE 102" ABOUVE DECK 6 PLATFORN.



1 TOWER ELECTRICAL FIFTH FLOOR PLAN
1/4" = 1'-0"



2 TOWER ELECTRICAL SIXTH FLOOR PLAN
1/4" = 1'-0"

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

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CENTRAL COUNTY FIRE & RESCUE HEADQUARTERS / TRAINING / MAINTENANCE
360/340 ECOLOGY DRIVE ST. PETERS, MO 63376

No.	Date	Revision

TOWER ELECTRICAL FIFTH FLOOR PLAN

Project No. 23121

Sheet No. E323

Date 09/16/2025

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SHEET INDEX - PAVILION

SHEET NUMBER	SHEET NAME	09/16/2025 - BID / PERMIT
ARCHITECTURAL		
A400	EXISTING PAVILION 3D	■
A411	FLOOR PLAN	■
A413	REFLECTED CEILING PLAN	■
A421	EXTERIOR ELEVATIONS	■
A431	WALL SECTIONS	■



B1 EXISITING PAVILLION 3D

SCALE: 3" = 1'-0" 0 3" 6" 1'
SCALE: 1 1/2" = 1'-0" 0 3" 6" 1' 2'
SCALE: 1" = 1'-0" 0 6" 1' 2'
SCALE: 3/4" = 1'-0" 0 1' 2' 3'
SCALE: 1/2" = 1'-0" 0 1' 2' 4'
SCALE: 3/8" = 1'-0" 0 2' 4' 6'
SCALE: 1/4" = 1'-0" 0 2' 4' 8'
SCALE: 1/8" = 1'-0" 0 4' 8' 16'
SCALE: 3/32" = 1'-0" 0 8' 16' 24'
SCALE: 1/16" = 1'-0" 0 8' 16' 32'

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No.	Date	Revision

EXISTING PAVILION 3D

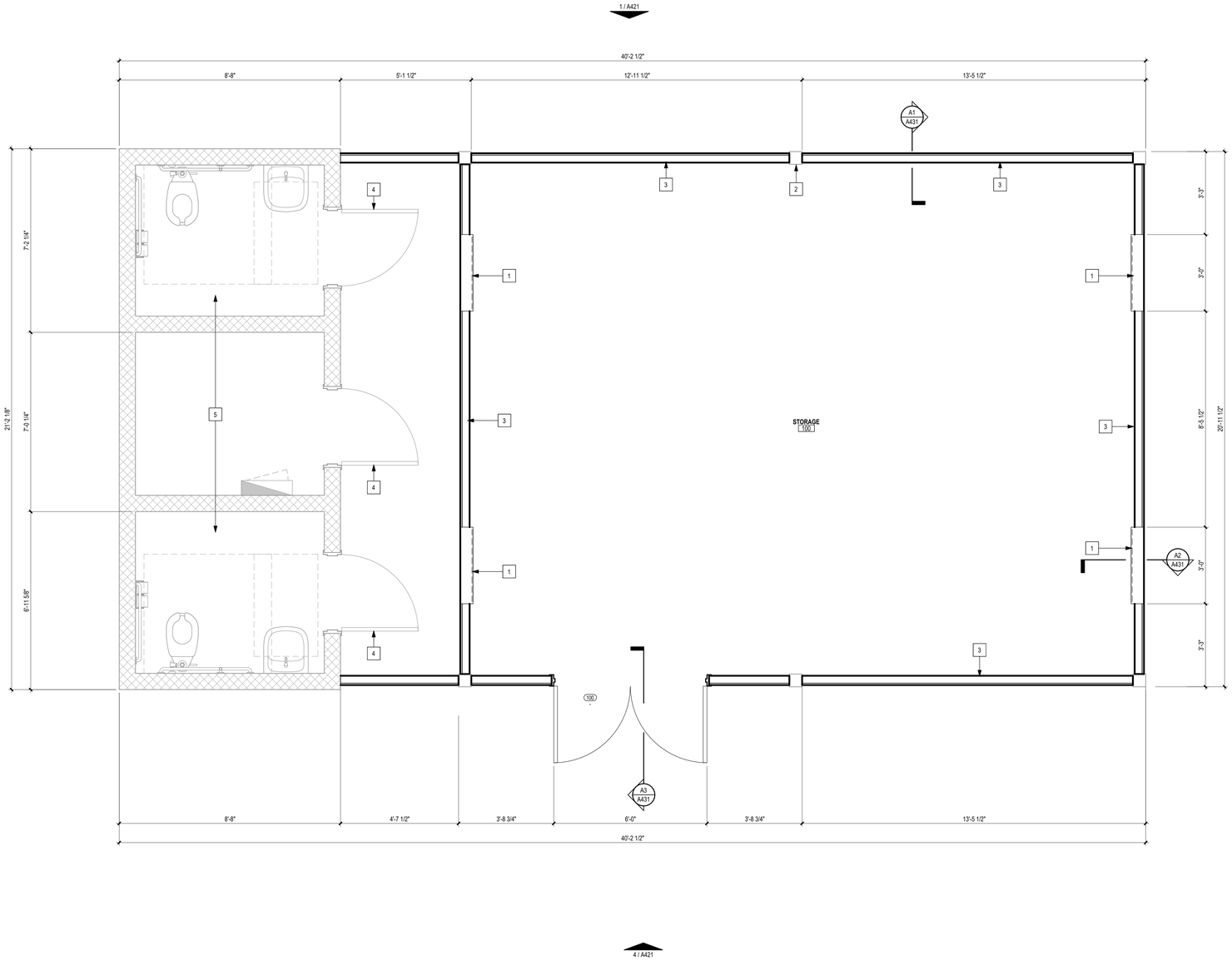
Project No. 23121

Sheet No. A400

Date 09/16/2025

KEYED NOTES FLOOR PLAN

MARK	DESCRIPTION
1	NEW ALUMINUM AIR VENT WITH FIXED BLADES.
2	EXISTING 6" X 6" WOOD COLUMN TO REMAIN, TYP.
3	NEW PRESSURE TREATED 2X4 16" O.C. WITH CORRUGATED METAL PANEL ON EXTERIOR SIDE (MTL-3)
4	EXISTING METAL DOOR TO REMAIN
5	NO WORK IN THESES AREAS.



A1 EXISTING PAVILLION GROUND FLOOR
1/2" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. REFERENCE GENERAL NOTES FOR ADDITIONAL APPLICABLE INFORMATION.
2. THE GENERAL CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS AND DIMENSIONS AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES THAT MAY AFFECT THE WORK PRIOR TO COMMENCING CONSTRUCTION.
3. ALL DIMENSIONS ARE TO THE FINISH FACE OF NEW PARTITIONS AND TO FINISH FACE OF EXISTING INTERIOR PARTITIONS AND PERIMETER WALLS TO REMAIN UNLESS NOTED OTHERWISE.
4. PATCH, LEVEL, AND/OR FEATHER THE EXISTING FLOOR SUCH THAT THE NEW FLOOR IS LEVEL AND ALL TRANSITIONS ARE LEVEL AND SMOOTH.
5. INSTALL REDUCER STRIPS BETWEEN DIFFERENT FLOOR FINISH LEVELS AND FINISHES AS REQUIRED.
6. PATCH ALL PARTITIONS AFFECTED BY THE DEMOLITION OF INTERSECTING PARTITIONS.
7. PATCH ALL FLOORS AFFECTED BY THE REMOVAL OF EXISTING FINISHES AND DEMOLITION OF PARTITIONS, EQUIPMENT, CASEWORK, ETC.
8. UNLESS NOTED OTHERWISE, ALL MATERIALS AND EQUIPMENT SHOWN ON THE DRAWINGS OTHER THAN THE EXISTING IS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
9. ALL ITEMS TO BE RELOCATED AND REUSED ARE TO BE STORED BY THE CONTRACTOR UNTIL REINSTALLATION. PROTECT FROM DAMAGE THROUGHOUT CONSTRUCTION.
10. PROVIDE PLASTIC DUST COVER TO PROTECT EXISTING EQUIPMENT, FILES, ETC. WHERE REQUIRED.
11. MAINTAIN ALL NECESSARY COMMUNICATIONS AND FIRE PROTECTION SYSTEMS, EXISTING REQUIRED EXITS, EXIT CORRIDORS, AND ITEMS AFFECTING THE HEALTH AND SAFETY OF ALL OCCUPANTS AT ALL TIMES THROUGHOUT CONSTRUCTION.
12. MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION WORK TO BE DESIGN-BUILD. INTENT OF THIS WORK IS REFLECTED ON THE DRAWINGS. IF SUCH WORK IS OUTSIDE OF THE PROJECT AREA, CONTACT THE OWNER FOR RESTRICTIONS THAT MAY APPLY TO THOSE AREAS AND COORDINATE AND SCHEDULE ALL WORK. PROTECT ADJACENT AREAS, EQUIPMENT, ETC.
13. PATCH/INFILL ALL HOLES WITHIN EXISTING WALLS AND PREPARE FOR REFINISHING.
14. ALL BLOCKING SHALL BE FIRE TREATED.

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No.	Date	Revision

FLOOR PLAN

Project No. 23121

Sheet No. A411

Date 09/16/2025

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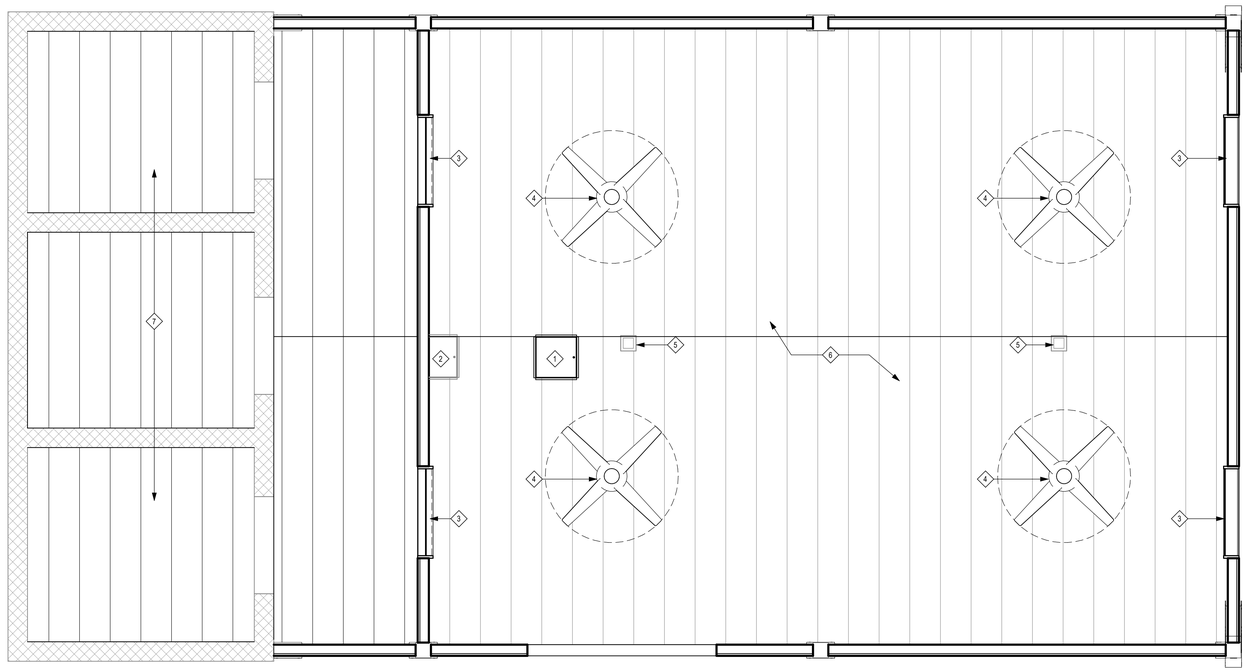
KEYED NOTES RCP

MARK	DESCRIPTION
1	NEW 24" X 24" CEILING ACCESS PANEL
2	EXISTING CEILING ACCESS TO REMAIN. ABANDON AND COVER AS REQ'D.
3	NEW ALUMINUM AIR VENT.
4	EXISTING CEILING FAN TO REMAIN, TYP.
5	EXISTING LIGHT FIXTURE TO REMAIN.
6	EXISTING METAL PANEL CEILING TO REMAIN.
7	NO WORK. ALL PLUMBING & ELECTRICAL FIXTURES TO REMAIN.



A1 REFLECTED CEILING PLAN
1/2" = 1'-0"

REF. CLG. PLAN GENERAL NOTES

1. LIGHT FIXTURES, EXIT SIGNS, FIRE STROBES/CHIMES, ETC. TO MATCH BUILDING STANDARD UNLESS NOTED OTHERWISE.
2. NO COMBUSTIBLE MATERIAL SHALL BE INSTALLED IN A RETURN AIR PLENUM.
3. ALL CEILING, BULKHEAD, AND SOFFIT HEIGHTS ARE TAKEN FROM REFERENCED FINISH FLOOR.
4. PAINT ALL GYPSUM BOARD SOFFITS AND CEILINGS. REFERENCE REFLECTED CEILING PLAN.
5. SUPPLY AND INSTALL SOUND BOOTS ON ALL DIFFUSERS OPEN TO THE CEILING PLENUM, TYP.
6. SHOULD ANY CONFLICT ARISE BETWEEN MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION SYSTEMS, REQUEST CLARIFICATION FROM ARCHITECT PRIOR TO INSTALLATION.
7. MECHANICAL DESIGN-BUILD CONTRACTOR TO REWORK EXISTING/INSTALL NEW SYSTEM AND DIFFUSERS AS REQUIRED TO PROVIDE PROPER CONDITIONING OF THE NEW PLAN. RESEARCH EXISTING CONDITIONS AND VERIFY WORK REQUIRED. INSTALL DAMPERS AT ANY FIRE RATED ASSEMBLIES TO MATCH EXISTING.
8. FIRE PROTECTION DESIGN-BUILD CONTRACTOR TO REWORK EXISTING/INSTALL NEW SPRINKLER LINES AND DEVICES IN THE AREA OF WORK TO PROVIDE PROPER COVERAGE PER GOVERNING CODES. SPRINKLER HEADS TO MATCH BUILDING STANDARD. VERIFY WORK REQUIRED.
9. WHERE SPRINKLER SYSTEMS ARE USED PROVIDE CONCEALED WHITE SPRINKLERS AT ALL GYPSUM BOARD CEILINGS AND SOFFITS UNLESS NOTED OTHERWISE
10. WHERE SPRINKLERS ARE USED, REFERENCE FIRE PROTECTION DRAWINGS FOR LOCATION OF SPRINKLER HEADS. THIS DRAWING IS FOR COORDINATION CONCEPTS ONLY. **NOTE**: ALL SPRINKLER HEADS LOCATED IN LAY-IN ACOUSTICAL PANELS SHALL BE CENTERED IN CEILING PANELS UNLESS NOTED OTHERWISE.

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No.	Date	Revision

REFLECTED CEILING PLAN

Project No. 23121

Sheet No. A413

Date 09/16/2025

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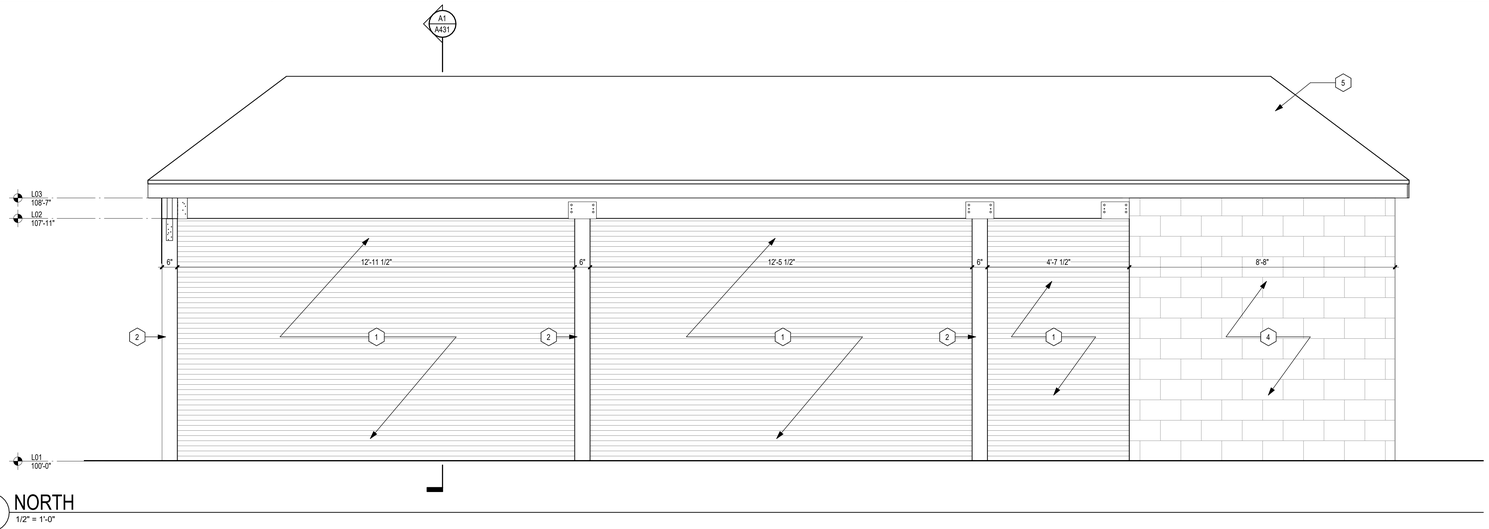
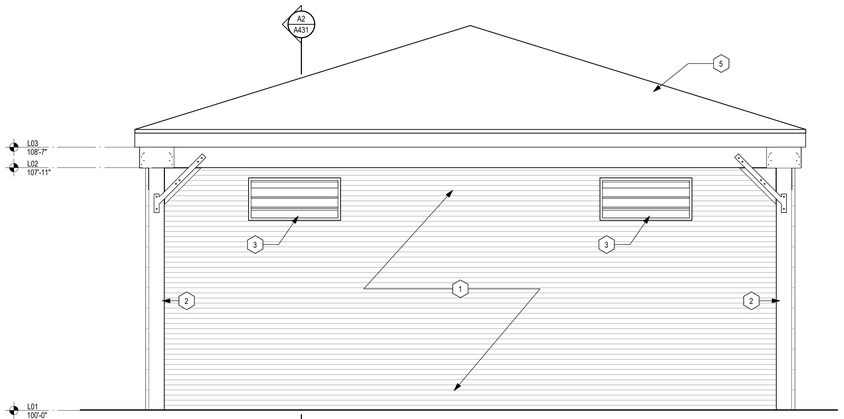
KEYED NOTES EXTERIOR ELEV.

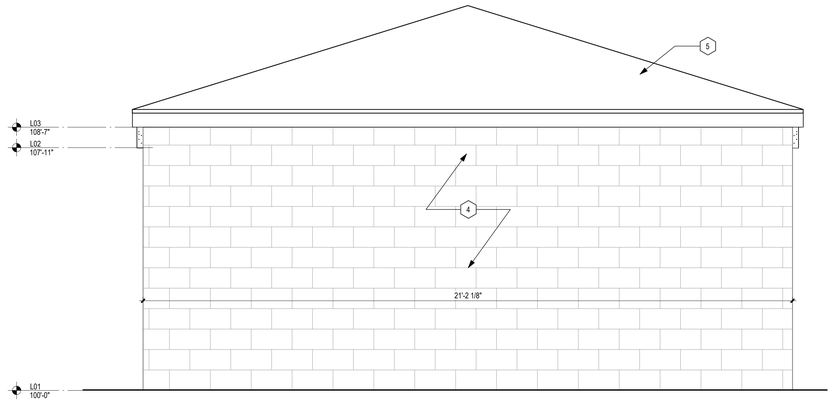
MARK	DESCRIPTION
1	NEW PRESSURE TREATED 2X4 16" O.C. WITH CORRUGATED METAL PANEL ON EXTERIOR SIDE (MTL-3).
2	EXISTING 6" X 6" WOOD COLUMN TO REMAIN, TYP.
3	NEW LOUVER.
4	EXISTING CMU TO REMAIN.
5	EXISTING ROOF TO REMAIN



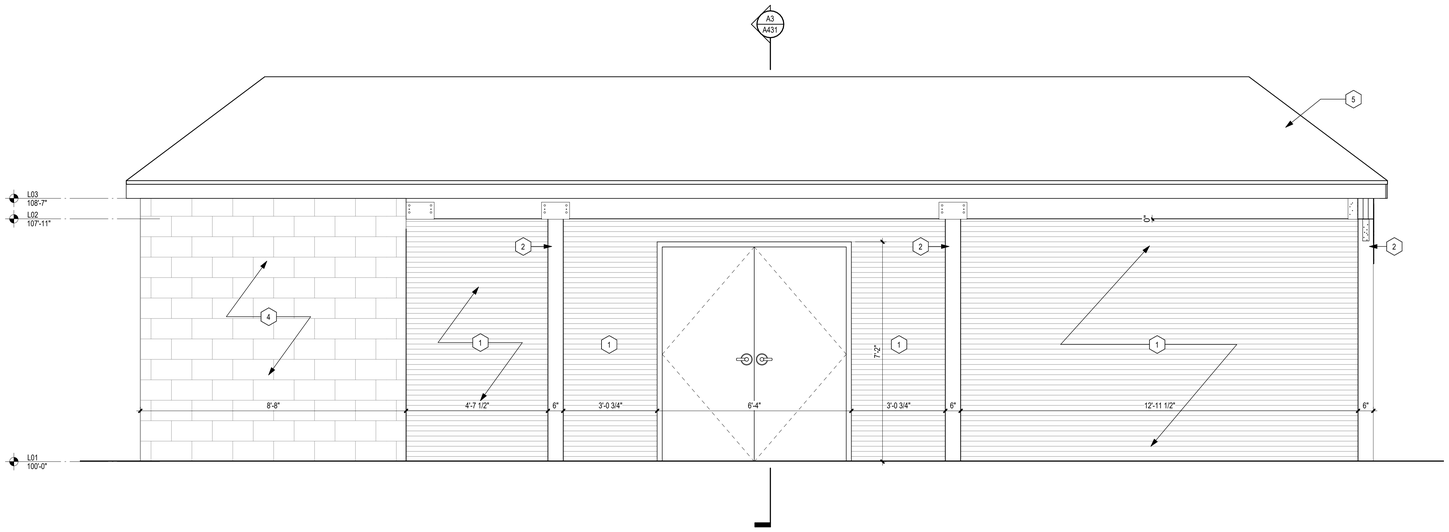
1 NORTH
1/2" = 1'-0"



2 EAST
1/2" = 1'-0"



3 WEST
1/2" = 1'-0"



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

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No.	Date	Revision

EXTERIOR ELEVATIONS

Project No.
23121

Sheet No.
A421

Date
09/16/2025

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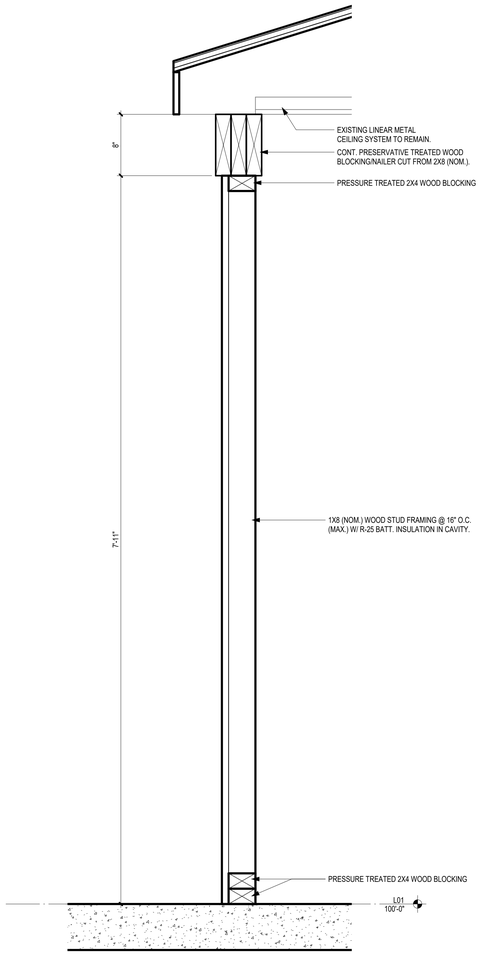
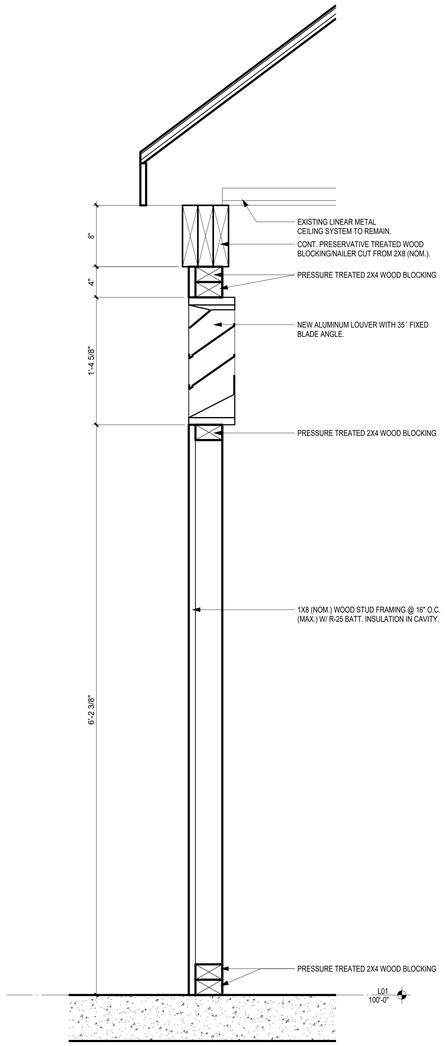
SCALE: 3" = 1'-0"
SCALE: 1 1/2" = 1'-0"
SCALE: 1" = 1'-0"
SCALE: 3/4" = 1'-0"
SCALE: 1/2" = 1'-0"
SCALE: 3/8" = 1'-0"
SCALE: 1/4" = 1'-0"
SCALE: 1/8" = 1'-0"
SCALE: 3/32" = 1'-0"
SCALE: 1/16" = 1'-0"

DOOR SCHEDULE

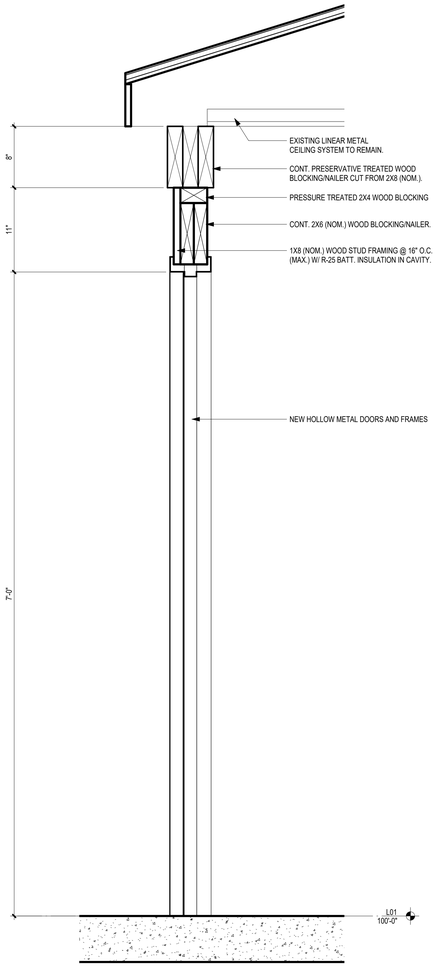
MARK	PAIR	WIDTH	HEIGHT	THICK	FRAME PROPERTIES						DOOR PROPERTIES				Door:Fire Rating	HARDWARE GROUP	COMMENTS
					FRAME TYPE	FRAME MATERIAL	FRAME FINISH	SIDELIGHT GLAZING	HEAD	JAMB	TYPE	DOOR MATERIAL	DOOR FINISH	DOOR GLAZING			
100		3'-0"	7'-0"	1 3/4"	F01	HM	P-xx	G-xx			-F-	HM	P-xx	G-xx	-	P 1.0	



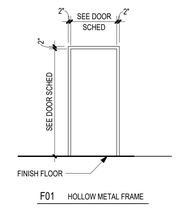
A1 Section 1
1 1/2" = 1'-0"



A2 Section 2
1 1/2" = 1'-0"



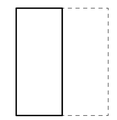
A3 Section 3
1 1/2" = 1'-0"



F01 HOLLOW METAL FRAME

A6 HOLLOW METAL FRAME TYPES ELEVATIONS
1/4" = 1'-0"

NOTE:
1. DOORS TO BE 1 3/4" THK. UNLESS OTHERWISE NOTED ON DOOR. SCHEDULE.
2. REFER TO DOOR SCHEDULE FOR GLASS TYPE AND THICKNESS.



F

FLUSH S.C. WD. OR H.M. DOOR.
-SEE DOOR SCHEDULE.

A7 DOOR TYPES ELEVATIONS
1/4" = 1'-0"

08.10.00.01 DOOR TYPES ELEVATION

SCALE: 3" = 1'-0" 1" 6" 3" 0
SCALE: 1 1/2" = 1'-0" 2" 1' 6" 3" 0
SCALE: 1" = 1'-0" 2" 1' 6" 3" 0
SCALE: 3/4" = 1'-0" 3" 2" 1" 0
SCALE: 1/2" = 1'-0" 4" 2" 1" 0
SCALE: 3/8" = 1'-0" 6" 4" 2" 0
SCALE: 1/4" = 1'-0" 8" 4" 2" 0
SCALE: 1/8" = 1'-0" 16" 8" 4" 0
SCALE: 3/32" = 1'-0" 24" 16" 8" 0
SCALE: 1/16" = 1'-0" 32" 16" 8" 0

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WALL SECTIONS

Project No. 23121
Sheet No. A431
Date 09/16/2025