RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
09/19/2025
Joe Froggé

LEE'S SUMMIT JOINT OPERATIONS FACILITY

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

PACKAGE 2: CONSTRUCTION SET

NOVEMBER 1, 2024

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RELEASED FOR CONSTRUCTION
As Noted on Plans Review
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Lee's Summit, Missouri
09/18/2025

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PACKAGE 2: CONSTRUCTION SET

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LEE'S SUMMIT, MISSOURI 64086

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G-001

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DRAWING INDEX

ABBREVIATIONS

A/C	AIR CONDITIONING
A/V	AUDIO VISUAL
ACOUST	ACOUSTICAL
ACP	ACOUSTICAL CEILING PANEL
AD	AREA DRAIN
ADD	ADDENDUM
ADJ	ADJUSTABLE / ADJACENT
AFF	ABOVE FINISH FLOOR
AHJ	AUTHORITIES HAVING JURISDICTION
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
AP	ACCESS PANEL
APC	ARCH PRECAST CONCRETE
APPROX	APPROXIMATE
ARCH	ARCHITECT / ARCHITECTURAL
ATTEN	ATTENUATION
AUTO	AUTOMATIC
AVG	AVERAGE
BD	BOARD
BIT	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BENCHMARK / BEAM
BO	BOTTOM OF
BOC	BACK OF CURB
BOT	BOTTOM
BR	RESILIENT BASE
BRG	BEARING
BRK	BRICK
BRKT	BRACKET
BSMT	BASEMENT
BT	TILE BASE
BTWN	BETWEEN
BV	INTEGRAL COVED BASE
BVL	BEVELED
BW	BOTH WAYS
C	ACOUSTICAL CEILING TILE
CA	CABINET
CAB	CAPACITY
CAP	CATCH BASIN
CB	CLOSED CIRCUIT TV
CCTV	PAINTED GYP CEILING - EPOXY
CE	CUBIC FEET
CF	CUBIC FEET PER MINUTE
CFM	CORNER GUARD
CG	CAST IRON
CI	CAST IN PLACE
CIP	CONTROL JOINT
CJ	CENTERLINE
CL	CEILING
CLG	CLOSET
CLOS	CLEAR / CLEARANCE
CLR	CENTIMETER
CM	CORRUGATED METAL PIPE
CMP	CONCRETE MANSONRY UNIT (S)
CMU	CLEAN OUT
CO	COLUMN
COL	COMBINATION
COMB	CONCRETE
CONC	CONNECTION
CONN	CONSTRUCT / CONSTRUCTION
CONST	CONTINUOUS
CONT	CONTRACTOR
CONTR	COORDINATE
COORD	CORRIDOR
CORR	CONCRETE PIPE
CP	PAINTED GYP CEILING
CP	COUNTERSINK
CS	CASEMENT
CSMT	COUNTER
CTR	CUBIC
CU	COLD WATER
CW	DOUBLE
DBL	DEMOLISH / DEMOLITION
DEMO	DEPARTMENT
DEPT	DRINKING FOUNTAIN
DF	DOUBLE HUNG
DH	DIAMETER
DIA	DIAGONAL
DIAG	DIMENSION
DIM	DISPENSER
DISP	DEMOUNTABLE
DMT	DOWN
DN	DOOR
DR	DOWNSPOUT
DS	DETAIL
DTL	DRAWING
DWG	EAST
E	EACH
EA	EXHAUST FAN
EF	EXPANSION JOINT
EJ	ELEVATION
EL	ELASTOMERIC
ELAST	ELECTRICAL
ELEC	ELEVATOR
ELEV	EMERGENCY
EMERG	ELECTRICAL PANELBOARD
EP	EQUAL
EQ	EQUIPMENT
EQUIP	ESCALATOR
ESC	ESTIMATE
EST	EXISTING TO REMAIN
ETR	ELECTRIC WATER COOLER
EWC	EXHAUST
EXH	EXISTING
EXIST	EXPANSION / EXPANDED
EXP	EXTERIOR
EXT	FIRE ALARM
FA	FABRICATE
FAB	FACE BRICK
FB	FURNISHED BY OWNER
FBO	CARPET
FC	VINYL COMPOSITION TILE
FCT	FLOOR DRAIN
FD	FOUNDATION
FDN	FIRE DEPARTMENT VALVE
FDV	FIRE EXTINGUISHER AND BRACKET
FE	FIRE EXTINGUISHER CABINET
FEC	FINISH FLOOR
FF	FIXTURES / FURNITURE / EQUIPMENT
FF&E	FINISH FLOOR ELEVATION
FFE	FIRE HYDRANT
FH	FIRE HOSE CABINET
FHC	FINISH / FINISHED
FIN	FIXTURE
FIXT	

ABBREVIATIONS

FLG	FLASHING
FLR	FLOOR
FLUOR	FLUORESCENT
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOG	FACE OF GYPSUM BOARD / WALL
FOM	FACE OF MASONRY
FOS	FACE OF STUDS
FR	FIRE RESISTANT
FRM	FRAME (D), (ING)
FS	FLOOR SINK
FT	FLOOR TILE
FT	FOOT / FEET
FTG	FOOTING
FURR	FURRING
FUT	FUTURE
FV	FIELD VERIFY
FVC	FIRE VALVE CABINET
FVT	VINYL TILE
FX	FINISHED CONCRETE
FZ	TERRAZZO
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GFRC	GLASS FIBER REINF CONC
GL	GLASS / GLAZING
GOVT	GOVERNMENT
GPM	GALLON PER MINUTE
GYP	GYPSUM
HB	HOSE BIBB
HC	HOLLOW CORE
HD	HEAD
HDBD	HARDBOARD
HDR	HEADER
HDW	HARDWARE
HDWD	HARDWOOD
HK	HOOK
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HPT	HIGH POINT
HR	HOUR
HS	HIGH STRENGTH
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HVAC	HEATING VENTING AIR CONDITIONING
HW	HOT WATER
HWH	HOT WATER HEATER
ID	INSIDE DIAMETER
IN	INCH
INCAND	INCANDESCENT
INCL	INCLUDE (D), (ING)
INFO	INFORMATION
INST	INSTALL / INSTALLATION
INSUL	INSULATE / INSULATION
INT	INTERIOR
INV	INVERT
JAN	JANITOR
JB	JUNCTION BOX
JC	JANITOR CLOSET
JST	JOIST
JT	JOINT
KIT	KITCHEN
KP	KICK PLATE
L	LONG / LENGTH
LAB	LABORATORY
LAV	LAVATORY
LBS	POUNDS
LF	LINEAR FOOT (FEET)
LH	LEFT HAND
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LPT	LOW POINT
LRG	LARGE
LT(G)	LIGHT(ING)
LVR	LOUVER
LWC	LIGHTWEIGHT CONCRETE
M	METER (S)
MAS	MASONRY
MAX	MAXIMUM
MBR	MEMBER
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MFG	MANUFACTURING
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
ML	PLASTIC LAMINATE MILLWORK
MN	NATURAL STONE COUNTERTOPS
MO	MASONRY OPENING
MOD	MODULAR
MS	SOLID SURFACE COUNTERTOPS
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
MULL	MULLION
N	NORTH
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD / OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
OZ	OUNCE
PA	PUBLIC ACCESS
PB	PANEL BOARD
PC	PRECAST CONCRETE
PERF	PERFORATE (D)
PERM	PERMANENT

ABBREVIATIONS

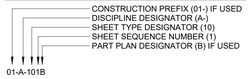
PERP	PERPENDICULAR
PL	PLATE / PROPERTY LINE
PLAS	PLASTER
PLUMB	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
POLY	POLYETHYLENE
PREFAB	PREFABRICATE (D)
PREFIN	PREFINISHED
PRELIM	PRELIMINARY
PREP	PREPARE (D)
PROJ	PROJECT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT; PRESSURE TREATED
PTD	PAINTED
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
QTY	QUANTITY
R	RISER / RADIUS / REVERSED
R/W	RIGHT OF WAY
RA	RETURN AIR
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RE	REFERENCE / REFER TO
REC (D)	RECEIVE (D)
REF	REFRIGERATOR
REINF	REINFORCE (D), (ING)
REQD	REQUIRED
REQMT	REQUIREMENT
REV	REVISED / REVISION
RFG	ROOFING
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
RTU	ROOF TOP UNIT
S	SOUTH
SA	ACOUSTICAL WALL PANEL
SAN	SANITARY SEWER
SC	SOLID CORE
SCH	SCHEDULE
SCN	SCREEN
SECT	SECTION
SF	SQUARE FOOT (SQ FT)
SHM	SECURITY HOLLOW METAL
SHT	SHEET
SIM	SIMILAR
SOF	SPRAY-ON FIREPROOFING
SOG	SLAB ON GRADE
SP	TOILET PARTITION
SP HD	SPRINKLER HEAD
SPEC	SPECIFICATION (S)
SPKR	SPEAKER
SQ	SQUARE
SS	STAINLESS STEEL
SS	SILLS
STC	SOUND TRANSM COEFFICIENT
STD	STANDARD
STG	SEATING
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURE / STRUCTURAL
SUBFLR	SUBFLOOR
SUSP	SUSPENDED
SW	WINDOW TREATMENTS
SWGR	SWITCH GEAR
SY	SQUARE YARD (SQ YD)
SYM	SYMMETRICAL
SYS	SYSTEM
T	TREAD
T&B	TOP & BOTTOM
T&G	TONGUE & GROOVE
TEL	TELEPHONE
TEMP	TEMPORARY / TEMPERED
THK	THICK (NESS)
THRU	THROUGH
TKBD	TACKBOARD
TO	TOP OF
TOC	TOP OF CURB / CONCRETE
TOD	TOP OF DECK
TOM	TOP OF MANSONRY
TOP	TOP OF PARAPET
TOS	TOP OF STEEL
TOW	TOP OF WALL
TRANSF	TRANSFORMER
TRANSM	TRANSMISSION
TV	TELEVISION
TYP	TYPICAL
UH	UNIT HEATER
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
VB	VAPOR BARRIER (VPR BR)
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VTR	VENT THROUGH ROOF
W	WEST, WIDTH, WIDE, WATER
W/	WITH
W/IN	WITHIN
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WE	WALL PAINT - EPOXY
WH	WALL HYDRANT
WNDW	WINDOW
WP	WALL PAINT
WR	WATER RESISTENT
WT	WALL TILE, WEIGHT
WV	WALL COVERING
YD	YARD
&	AND
@	AT

SYMBOLS:

DISCIPLINE DESIGNATORS:

G- (GENERAL)	AF (FURNITURE / EQUIPMENT)
C- (CIVIL)	AG (GRAPHICS)
L- (LANDSCAPE)	QF (EQUIPMENT FOOD SERVICE)
S- (STRUCTURAL)	QH (EQUIPMENT HOSPITAL)
AS (ARCHITECTURAL SITE)	P- (PLUMBING)
XD (DEMOLITION)	M- (MECHANICAL)
A- (ARCHITECTURAL)	E- (ELECTRICAL)
AC (ARCHITECTURAL CEILINGS)	T- (TECHNOLOGY)
AI (ARCHITECTURAL FINISHES)	

SHEET NUMBER:



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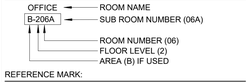

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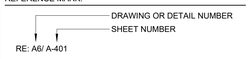


ROOM FINISH TAG KEY LEGEND:

SYMBOLS:

NORTH — NORTH ARROW SYMBOL

BREAK LINE

A — STRUCTURAL GRID BUBBLE

A — EXISTING STRUCTURAL GRID BUBBLE

ELEVATION MARK

FIRE HYDRANT

FE — FIRE EXTINGUISHER

EFEC — EXISTING FIRE EXTINGUISHER & CABINET

FEC — FIRE EXTINGUISHER & CABINET

FD — FLOOR DRAIN

RD — ROOF DRAIN

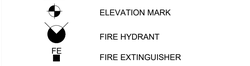
ORD — OVERFLOW ROOF DRAIN

WP1 — WALL FINISH TYPE

22.22G — MATERIAL KEYNOTE

WP1 — MILLWORK FINISH TYPE

NOTE TAGS:



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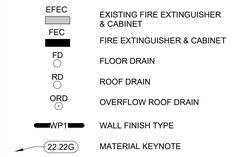

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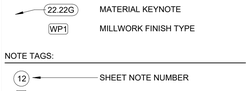
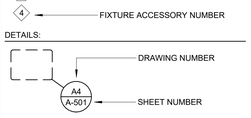


WALL SYMBOLS:

NEW WALL

SYMBOLS - DOOR & FRAME TYPES/ WINDOW TYPES/ LOUVER TYPES/GLASS TYPES:

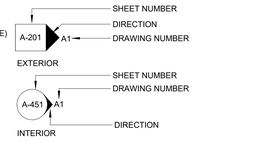


CASEWORK SYMBOLS:

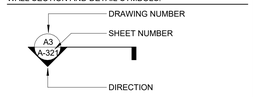
WALL TYPE INDICATOR:

RE: WALL TYPE LEGEND ON G-301

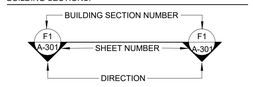
ELEVATION SYMBOLS:



WALL SECTION AND DETAIL SYMBOLS:



BUILDING SECTIONS:



REVISION MARK/ CLOUD:

GENERAL INFORMATION NOTES:

1. ALL CONTRACTORS AND THEIR SUPERVISORY PERSONNEL SHALL REVIEW THE GENERAL ANDSUPPLEMENTARY CONDITIONS TO THE CONTRACT.
2. ALL WORK SHALL CONFORM WITH APPLICABLE BUILDING CODES, REGULATIONS AND ORDINANCES.
3. CONTRACTOR SHALL OBTAIN ALL REQUIRED BUILDING AND OCCUPANCY PERMITS.
4. CONTRACTOR SHALL BECOME FULLY ACQUAINTED WITH CONDITIONS RELATED TO THE WORK.
5. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS, AND SEQUENCES OF CONSTRUCTION AND THE SAFETY OF ALL CONSTRUCTION PERSONNEL AND VISITORS.
6. DRAWINGS CONTAINED IN THIS SET SHALL NOT BE REPRODUCED FOR SHOP DRAWINGS. COPIES OF THESE DRAWINGS SUBMITTED AS SHOP DRAWINGS WILL BE REJECTED AND RETURNED TO THE CONTRACTOR.
7. EACH INSTALLER MUST EXAMINE SUBSTRATE AND/OR CONDITIONS UNDER WHICH THE WORK WILL BE INSTALLED AND REPORT TO THE CONTRACTOR IN WRITING ANY CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY EXECUTION OF THAT INSTALLERS WORK. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED. COMMENCING WITH INSTALLATION SHALL CONSTITUTE ACCEPTANCE OF THE SUBSTRATE AND/OR CONDITIONS.
8. DO NOT SCALE DRAWINGS: FOLLOW WRITTEN DIMENSIONS AND NOTES. CONTACT ARCHITECT FOR CLARIFICATIONS, IF REQUIRED.
9. DIMENSIONS SHOWN ON THE FLOOR PLAN ARE TO THE FACE OF MASONRY (FOM), FACE OF CONCRETE WALLS (FOC), AND COLUMN GRID LINES, UNLESS NOTED OR SHOWN OTHERWISE.
10. FOR METAL STUD CONSTRUCTION DIMENSIONS SHOWN ON THE FLOOR PLAN ARE TO THE FACE OF GYP. BOARD/ WALL (FOG), UNLESS NOTED OR SHOWN OTHERWISE.
11. NOTE: ALL WALL THICKNESSES ARE ACTUAL DIMENSIONS.
12. "TYPICAL" AS USED IN THESE DOCUMENTS, SHALL MEAN THAT THE CONDITION OR DIMENSION IS REPRESENTATIVE OF, OR THE SAME, FOR SIMILAR CONDITIONS THROUGHOUT.
13. IF THERE IS A DISCREPANCY BETWEEN SMALL SCALE AND LARGE SCALE DRAWINGS, (PLAN, SECTION, & DETAIL DRAWINGS, ETC.) - CONTACT ARCHITECT FOR CLARIFICATION. FOR BIDDING PURPOSES: THE MOST EXPENSIVE AND/OR STRICTEST REQUIREMENTS SHALL GOVERN. FOR CLARIFICATIONS DURING CONSTRUCTION: THE MOST EXPENSIVE AND/OR STRICTEST REQUIREMENTS, AS INDICATED BY THE ARCHITECT, SHALL GOVERN.
14. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND SPECIFICATIONS - CONTACT ARCHITECT FOR CLARIFICATION. FOR BIDDING PURPOSES: THE MOST EXPENSIVE AND/OR STRICTEST REQUIREMENTS SHALL GOVERN. FOR CLARIFICATIONS DURING CONSTRUCTION: THE MOST EXPENSIVE AND/OR STRICTEST REQUIREMENTS, AS INDICATED BY THE ARCHITECT, SHALL GOVERN.
15. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT IN WRITING FOR RESOLUTION, PRIOR TO PROCEEDING WITH THE WORK.
16. ANY AND ALL DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT IN WRITING FOR RESOLUTION, PRIOR TO PROCEEDING WITH THE WORK. IN THESE INSTANCES: NO CHANGE ORDERS OR EXTENSIONS OF TIME WILL BE ALLOWED OR ACCEPTED FOR PROCEEDING WITH THE WORK WITHOUT THE ARCHITECT 'S WRITTEN DIRECTION AND APPROVAL. ALSO - CONTRACTOR MUST REPAIR AND/OR REPLACE ANY UNAUTHORIZED WORK, AS INDICATED BY THE ARCHITECT, AT NO ADDITIONAL COST TO THE OWNER.
17. ALL DISSIMILAR METAL MATERIALS SHALL BE ISOLATED WITH AN APPROVED NONMETAL ISOLATION MATERIAL.
18. OPEN EXTERIOR JOINTS AROUND WINDOW AND DOOR FRAMES, BETWEEN WALLS AND FOUNDATIONS, BETWEEN WALL PANELS, AND AT PENETRATIONS OF UTILITIES THROUGH THE BUILDING ENVELOPE, ETC. - SHALL BE SEALED, CAULKED, FLASHED OR WEATHER-STRIPPED AS REQUIRED FOR COMPATIBILITY WITH ADJACENT MATERIALS & TO ELIMINATE AIR LEAKAGE AND WATER ENTRY.
19. PROVIDE SEALANT AND/OR CAULKING BETWEEN DISSIMILAR ADJOINING INTERIOR MATERIALS. (I.E. WINDOW SILLS TO GYP. BD., ACT CEILINGS TO MASONRY WALLS, ETC.)
20. DOOR OPENINGS NOT LOCATED BY DIMENSION SHALL BE CENTERED IN WALL SHOWN OR LOCATED 4 INCHES FROM FINISH WALL TO EDGE OF DOOR FRAME, ALWAYS ALLOWING A MINIMUM OF 16" FROM THE PULL SIDE OF THE DOOR TO THE INTERSECTING WALL.
21. CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES AND THEIR SERVICE CONNECTIONS WITH THE PROPER UTILITY COMPANY.
22. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE FINAL SIZE AND DEPTH OF THE ELEVATOR PIT, SHAFT, RAIL SUPPORT, HOIST SUPPORT, OVERRUN AND MISC. ELEVATOR REQUIREMENTS WITH THE SELECTED ELEVATOR MANUFACTURER/ SUPPLIER.
23. CONTRACTOR SHALL COORDINATE SIZE, LOCATIONS AND NUMBER OF ALL ROOF OPENINGS AND ROOF ACCESSORIES WITH ALL OTHER TRADES. REFER TO THE ARCHITECTURAL, STRUCTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS.
24. LOCATIONS AND SIZES OF ALL CONCRETE MECHANICAL AND ELECTRICAL PADS SHALL BE COORDINATED BY THE MECHANICAL AND ELECTRICAL CONTRACTORS, WITH THE SELECTED EQUIPMENT MANUFACTURER/SUPPLIER, AND ARE TO BE APPROVED BY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
25. EXCEPT AT FIRE-RATED PARTITIONS, ALL WALL AND COLUMN GYPSUM BOARD FACING SHALL BE HELD AT 5/8 INCH BELOW STRUCTURE, UNLESS DETAILED OR NOTED OTHERWISE.
26. AT ALL TELECOMMUNICATION ROOMS: PROVIDE 3/4" X 8'-0" HIGH FIRE-RETARDANT-TREATED WOOD SHEATHING OR PROVIDE PLYWOOD OVER NON-COMBUSTIBLE SHEATHING; BOTTOM TO BE LOCATED AT 4" A.F.F. VERIFY LENGTHS AND LOCATIONS WITH ELECTRICAL DRAWINGS.
27. GLASS DOORS, ADJACENT PANELS AND ALL GLAZED OPENINGS WITHIN 1'-6" OF THE FLOOR, AND WITHIN A 24-INCH ARC OF EITHER VERTICAL EDGE OF A DOOR, ETC., SHALL BE SAFETY GLAZING AS APPROVED FOR IMPACT BY APPLICABLE BUILDING CODES, AND SHALL BE LABELED AS SUCH.
28. ALL CEILING HEIGHTS AS SHOWN ON PLANS AND DETAILS ARE FROM SLAB OR TILE FLOOR (FINISHED FLOOR) TO FINISH CEILING.
29. PROVIDE INDEPENDENT FRAMING & ATTACHMENTS TO THE STRUCTURE – ADEQUATE TO SUPPORT THE CEILING SYSTEM, LIGHT FIXTURES, DUCTS, DIFFUSERS, SPRINKLER PIPING AND BUS DUCTS.
30. ALL CLOSETS AND ALCOVES WITHOUT A SPACE IDENTIFICATION NUMBER SHALL HAVE THE SAME FINISHES AS ADJOINING SPACES.
31. CONTRACTOR TO INSTALL WOOD BLOCKING AND PLYWOOD AS REQUIRED FOR THE MOUNTING OF ALL TOILET ACCESSORIES, MILLWORK/ CASEWORK, AV EQUIPMENT, AND MEP ITEMS ETC.
32. RE: SPECIFICATIONS FOR ALL REQUIRED TESTING AND INSPECTIONS.
33. ANY/ ALL PROPRIETARY PRODUCTS DESCRIBED AND/OR DRAWN IN THE DOCUMENTS (BUT NOT SPECIFIED) ARE TO MEET THE MANUFACTURER 'S STANDARD CRITERIA WHICH IS NOT LIMITED TO THE FOLLOWING: PERFORMANCE REQUIREMENTS, QUALITY ASSURANCE REQUIREMENTS, APPLICABLE CODES AND INDUSTRY STANDARDS, FABRICATION, ASSEMBLY, HANDLING, DELIVERY, STORAGE, INSTALLATION, OPERATION, ADJUSTMENTS, ETC. PROVIDE THE MANUFACTURER 'S STANDARD WARRANTY AND STANDARD FINISH WARRANTY. PROVIDE PRODUCT DATA, SHOP DRAWINGS, SAMPLES, AND MAINTENANCE DATA AS REQUIRED. REFER TO DIVISION 01 SPEC. SECTIONS WHICH ALSO APPLY - SUCH AS SUBSTITUTION PROCEDURES, SUBMITTAL PROCEDURES, QUALITY REQUIREMENTS, REFERENCES, EXECUTION, AND CLOSEOUT PROCEDURES. NOTE: ANY SUBSTITUTIONS MUST MEET THE DESIGN INTENT, AS WELL AS THE CRITERIA DESCRIBED ABOVE.

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
09/18/2025

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LEE'S SUMMIT JOINT OPERATIONS FACILITY

PACKAGE 2: CONSTRUCTION SET

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

REVISION DATES:

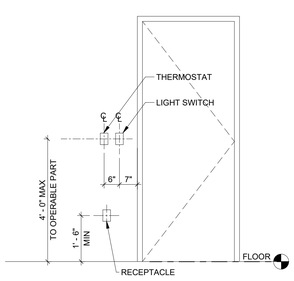
STATE OF MISSOURI
CHRISTOPHER KRUMREI
NUMBER A-2016011211
ARCHITECT

PROFESSIONAL SEAL

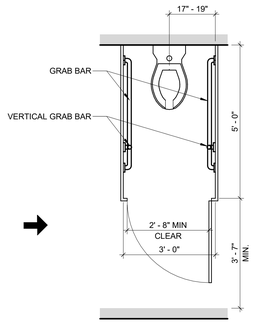
G-011

ISSUE DATE: NOVEMBER 1, 2024
HOEFER WELKER #: 138191

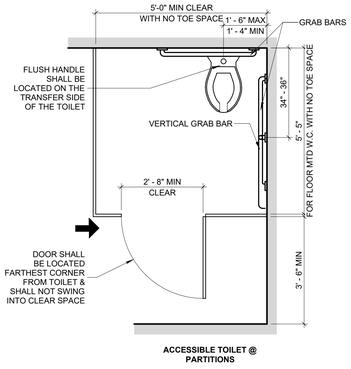
GENERAL INFORMATION



H8 SWITCH @ DOOR
1/2" = 1'-0"

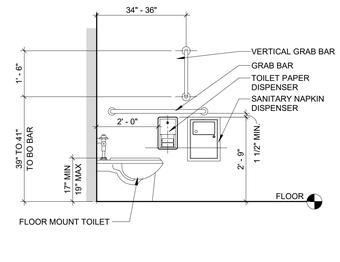


AMBULATORY ACCESSIBLE TOILET

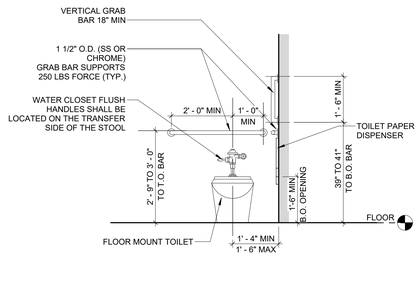


ACCESSIBLE TOILET @ PARTITIONS

GRAB BARS:
1 1/2" O.D. (SS)
SUPPORTS MIN 500 LBS FORCE (TYP)

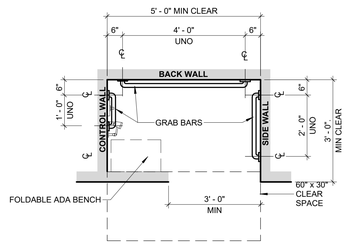


SECTION

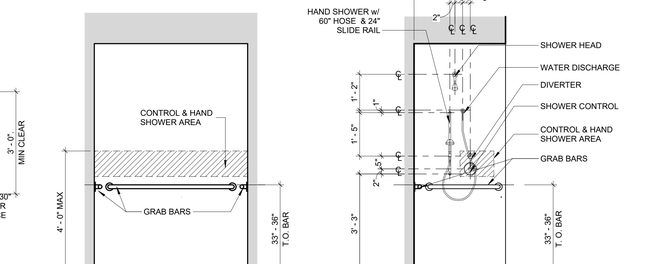


ELEVATION

H1 WATER CLOSET & GRAB BARS
1/2" = 1'-0"



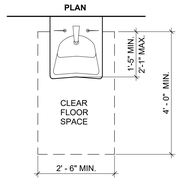
PLAN

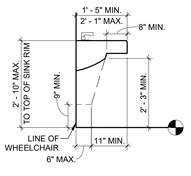


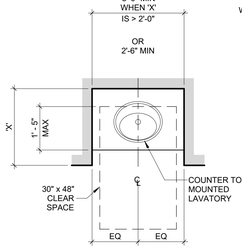
BACK WALL ELEVATION

CONTROL WALL ELEVATION

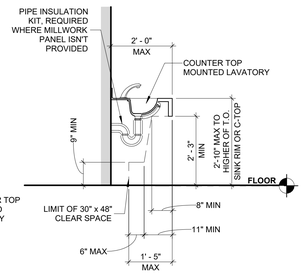
F1 ALTERNATE ROLL-IN SHOWER
1/2" = 1'-0"



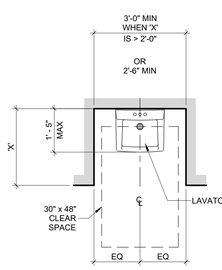




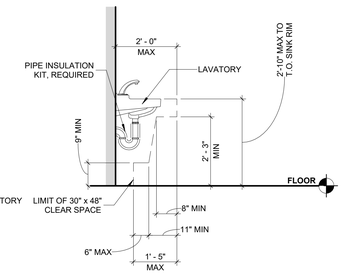
IN-COUNTER SINK - PLAN



IN-COUNTER SINK - SECTION



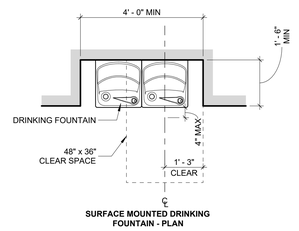
WALL HUNG LAVATORY - PLAN



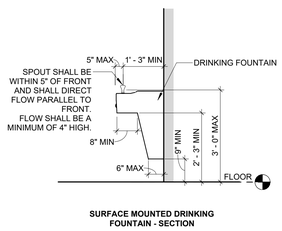
WALL HUNG LAVATORY - SECTION

C8 WALL HUNG LAVATORY CLEARANCES
1/2" = 1'-0"

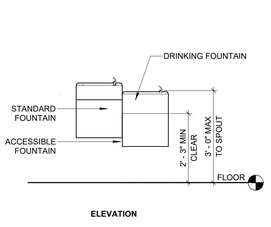
C1 LAVATORIES
1/2" = 1'-0"



SURFACE MOUNTED DRINKING FOUNTAIN - PLAN



SURFACE MOUNTED DRINKING FOUNTAIN - SECTION



ELEVATION

A1 DRINKING FOUNTAINS
1/2" = 1'-0"

GENERAL NOTES - ACCESSIBILITY GUIDELINES:

1. NOTE: ALL DIMENSIONS ARE MEASURED FROM FLOOR, UNLESS NOTED OR SHOWN OTHERWISE.
2. ADA UNOBSTRUCTED REACH RANGES: FORWARD REACH = 48" MAX & 15" MIN SIDE REACH = 48" MAX & 15" MIN.
3. ELEVATORS: STD CALL BUTTONS: 35" TO 48" TO C.L. & PROTRUDE 1" MAX. ADA CALL BUTTONS: 42" TO C.L. (TYP) & 48" MAX (3/4" SMALLEST DIM). ADA VISIBLE SIGNALS: 72" MIN. TO C.L. (2 1/2" SMALLEST DIM). TACTILE SIGNAL ON HOISTWAY: 60" TO BASE OF CHARACTERS W/ TACTILE STAR & 2" HIGH CHARACTERS.
4. DOOR HARDWARE (TO CENTER OF HARDWARE): STD MOUNTING HEIGHTS: PUSH PLATES = 42", PULL HANDLES = 42", KNOBS/ LEVERS = 40", PANIC EXIT = 42" CENTERLINE OF BAR. KICKPLATES: WIDTH = DOOR WIDTH MINUS 2", CENTER, HEIGHT = 16" FROM B.O. DOOR. THRESHOLDS: STD = 1/2" MAX. AT EXT SLIDING DOORS = 3/4" MAX. ADA HARDWARE = 34" MIN TO 48" MAX
5. DRINKING FOUNTAINS & EWC'S (TO SPOUT): STD = 40" TYP, 42" MAX. ADA =36" MAX (27" MIN CLEAR KNEE SPACE)
6. COUNTERTOPS (TO SINK RIM/ COUNTERTOP): ADA = 28" MIN TO 34" MAX.
7. WATER CLOSETS (TO TOP OF SEAT): STD = 14" TO 15". ADA (TO TOP OF SEAT) = 17" TO 19". ADA FLUSH CONTROLS = 44" MAX
8. URINALS (TO RIM): STD = 24" MAX. ADA =17" MAX. ADA FLUSH CONTROLS = 44" MAX
9. LAVATORIES (TO SINK RIM/ COUNTERTOP): STD = 36" MAX. ADA = 34" MAX (29" MIN CLEAR KNEE SPACE)
10. MIRRORS (TO B.O. REFLECTIVE SURFACE): STD = VARIES. ADA = 40" MAX
11. GRAB BARS: ADA (TO T.O. OF BAR): WATER CLOSETS = 33" MIN TO 36" MAX. SHOWERS = 33" MIN TO 36" MAX (FROM B.O. SHOWER). BATHTUBS: TOP BAR = 33" MIN TO 36" MAX B.O. BAR = 9" ABOVE TOP OF TUB.
12. SHOWER HEADS (FROM FLOOR TO HEAD): STD = 72" TO 84". ADA = SPRAY UNIT W/ HOSE 60" LONG MIN.
13. ADA FIXED SHOWER HEAD = 48" AFF
14. SHOWER ROD (FROM FLOOR TO C.L.): STD = 78" MAX
15. TOILET ROOM PARTITIONS: TOILETS = 12" TO BOT & 70" TO TOP. URINALS = 18" TO BOT & 60" TO TOP.
16. TOILET PAPER DISPENSERS (TO OUTLET): STD = 24". ADA = 15" MIN TO 48" MAX
17. WALL MOUNTED SOAP DISPENSERS (TO C.L. OF PUSH BUTTON): STD = 40". ADA = VARIES. RE: OBSTRUCTED AND UNOBSTRUCTED REACH RANGES. ADA SIDE REACH = 46" MAX ABOVE SINK IN COUNTER.
18. PAPER TOWEL DISPENSER (TO TOWEL SLOT): STD = 40" MAX. ADA FORWARD REACH = 48" MAX & 15" MIN. ADA SIDE REACH = 48" MAX & 15" MIN. RE: OBSTRUCTED AND UNOBSTRUCTED REACH RANGES. ADA SIDE REACH = 46" MAX. ABOVE SINK IN COUNTER.
19. WARM AIR HAND DRYER (TO PUSH SWITCH): STD = 44" MAX. ADA FORWARD REACH = 48" MAX & 15" MIN. ADA SIDE REACH = 48" MAX & 15" MIN
20. SANITARY NAPKIN DISPENSER (TO C.L. OF COIN SLOT): STD = 40" MAX. ADA FORWARD REACH = 48" MAX & 15" MIN. ADA SIDE REACH = 48" MAX & 15" MIN
21. SANITARY NAPKIN DISPOSAL (TO TOP OF UNIT): STD = 28" MAX. ADA = 19" MIN TO 24" MAX (TO OPNG)
22. TOILET SEAT COVER DISPENSERS (TO OPNG): STD = 40" MAX. ADA FORWARD REACH = 48" MAX & 15" MIN. ADA SIDE REACH = 48" MAX & 15" MIN
23. SHELVES: ADA = 48" MAX
24. COAT HOOKS: STD = 68". ADA = 48" MAX
25. CHALKBOARDS, TACKBOARDS,& MARKERBOARDS: STD = 32" TO 39" (TO B.O. BOARD OR CHALKTRAY). STD = 80" (RECOMMENDED, TO TOP OF BOARD)
26. THERMOSTATS & CONTROL DEVICES (TO TOP): ADA
27. FORWARD REACH = 48" MAX. ADA SIDE REACH = 48" MAX
28. LIGHT SWITCHES & CARD READERS (TO C.L.): LOCATE 6" FROM DOOR JAMB. ADA = 48" MAX
29. CONVENIENCE RECEPTACLES – ELECT/ TELEPHONE/ DATA (TO C.L.): STD = 18". ADA = 15" MIN
30. EXIT LIGHTS - WALL MOUNTED: 2" MIN BELOW CLG. 2" MIN ABOVE DOOR FRAME. EQUAL SPACE FROM CLG TO TOP OF FRAME.
31. FIRE EXTINGUISHERS (TO TOP, UNO): GROSS WT 40 LBS OR LESS = 60" MAX. GROSS WT MORE THAN 40 LBS = 42" MAX. ADA = 40" MAX (B.O. CABINET)
32. FIRE ALARM PULL STATIONS (TO LEVER): STD = 48" MAX. ADA FORWARD REACH = 48" MAX. ADA SIDE REACH = 48" MAX
33. SMOKE AND/OR HEAT DETECTORS: STD = CLG HT.
34. HORN/ SPEAKER/ VISUAL SIGNALS: STD = 80" AFF OR 6" BELOW CLG - WHICHEVER IS LOWER.
35. ROOM SIGNAGE (TO C.L.): STD = 60" HIGH AFF & WITHIN 18" OF LATCH SIDE OF DOOR.
36. ALL MINIMUM AND MAXIMUM DIMENSIONS ARE MEASURED FROM THE FACE OF FINISHED WALL, NOT THE FACE OF THE SUBSTRATE.
37. WHEN MAX, MIN OR DIMENSIONAL RANGE IS GIVEN, THE CONSTRUCTION TOLERANCE DURING INSTALLATION MUST FIT WITHIN THE GIVEN RANGE, MAX OR MIN DIMENSION. NO EXCEPTIONS.
38. PROVIDE KNEE PROTECTION ON EXPOSED WATER SUPPLIES, P-TRAP AND DRAIN PIPING.
39. PROVIDE BLOCKING INSIDE WALL FOR ALL HORIZONTAL AND VERTICAL GRAB BARS EVEN WHEN THEY ARE NOT INSTALLED AS PART OF PROJECT SCOPE OF WORK (TYP.)

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
09/18/2025

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LEE'S SUMMIT JOINT OPERATIONS FACILITY

PACKAGE 2: CONSTRUCTION SET

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

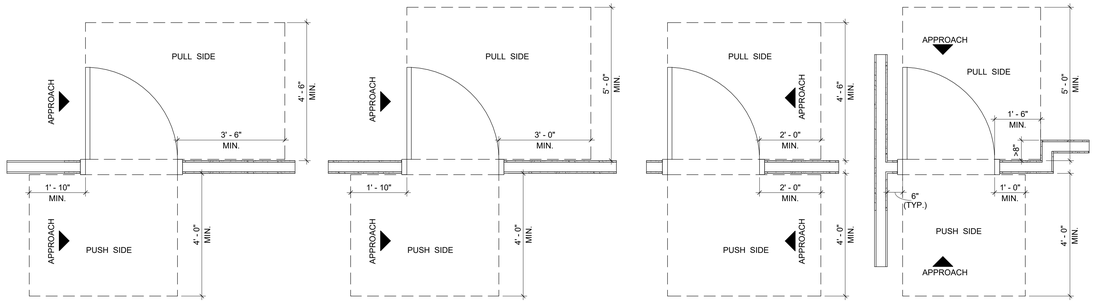
REVISION DATES:

PROFESSIONAL SEAL

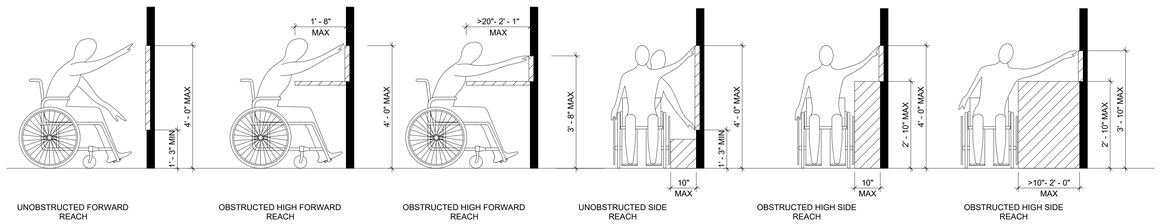
G-021

ISSUE DATE: NOVEMBER 1, 2024
HOEFER WELKER #: 138191

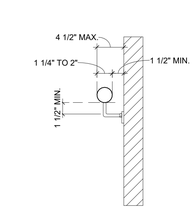
ACCESSIBILITY GUIDELINES



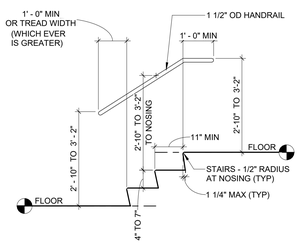
G1 TYP. DOOR JAMB & DOOR APPROACH CLEARANCES
1/2" = 1'-0"



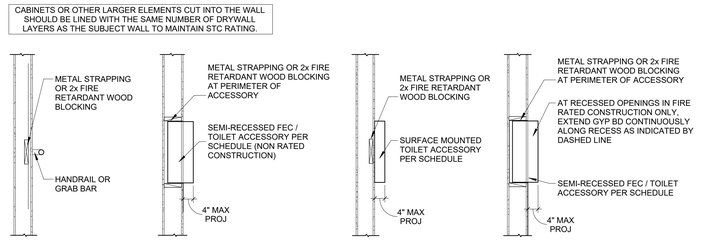
E1 REACH RANGE
1/2" = 1'-0"



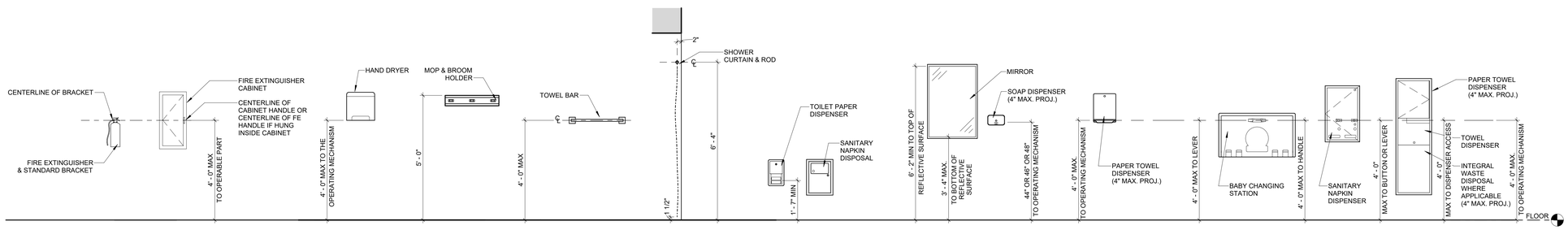
C8 HANDRAIL CLEARANCES
1 1/2" = 1'-0"



C6 HANDRAIL @ STAIRS
1/2" = 1'-0"



C1 _TYPICAL BLOCKING DETAILS
1/2" = 1'-0"



A1 _TOILET ACCESSORIES
1/2" = 1'-0"

GENERAL NOTES - ACCESSIBILITY GUIDELINES:

1. NOTE: ALL DIMENSIONS ARE MEASURED FROM FLOOR, UNLESS NOTED OR SHOWN OTHERWISE.
2. ADA UNOBSTRUCTED REACH RANGES: FORWARD REACH = 48" MAX & 15" MIN SIDE REACH = 48" MAX & 15" MIN.
3. ELEVATORS: STD CALL BUTTONS: 35" TO 48" TO C.L. & PROTRUDE 1" MAX. ADA CALL BUTTONS: 42" TO C.L. (TYP) & 48" MAX (3/4" SMALLEST DIM). ADA VISIBLE SIGNALS: 72" MIN. TO C.L. (2 1/2" SMALLEST DIM). TACTILE SIGNAL ON HOISTWAY: 60" TO BASE OF CHARACTERS W/ TACTILE STAR & 2" HIGH CHARACTERS.
4. DOOR HARDWARE (TO CENTER OF HARDWARE): STD MOUNTING HEIGHTS: PUSH PLATES = 42", PULL HANDLES = 42", KNOBS/ LEVERS = 40", PANIC EXIT = 42" CENTERLINE OF BAR, KICKPLATES: WIDTH = DOOR WIDTH MINUS 2", CENTER, HEIGHT = 16" FROM B.O. DOOR. THRESHOLDS: STD = 1/2" MAX. AT EXT SLIDING DOORS = 3/4" MAX. ADA HARDWARE = 34" MIN TO 48" MAX
5. DRINKING FOUNTAINS & EWC'S (TO SPOUT): STD = 40" TYP. 42" MAX. ADA =36" MAX (27" MIN CLEAR KNEE SPACE)
6. COUNTERTOPS (TO SINK RIM/ COUNTERTOP): ADA = 28" MIN TO 34" MAX
7. WATER CLOSETS (TO TOP OF SEAT): STD = 14" TO 15". ADA (TO TOP OF SEAT) = 17" TO 19". ADA FLUSH CONTROLS = 44" MAX
8. URINALS (TO RIM): STD = 24" MAX. ADA =17" MAX. ADA FLUSH CONTROLS = 44" MAX
9. LAVATORIES (TO SINK RIM/ COUNTERTOP): STD = 36" MAX. ADA = 34" MAX (29" MIN CLEAR KNEE SPACE)
10. MIRRORS (TO B.O. REFLECTIVE SURFACE): STD = VARIES. ADA = 40" MAX
11. GRAB BARS: ADA (TO T.O. OF BAR): WATER CLOSETS = 33" MIN TO 36" MAX. SHOWERS = 33" MIN TO 36" MAX (FROM B.O. SHOWER). BATHTUBS: TOP BAR = 33" MIN TO 36" MAX B.O. BAR = 9" ABOVE TOP OF TUB.
12. SHOWER HEADS (FROM FLOOR TO HEAD): STD = 72" TO 84". ADA = SPRAY UNIT W/ HOSE 60" LONG MIN.
13. ADA FIXED SHOWER HEAD = 48" AFF
14. SHOWER ROD (FROM FLOOR TO C.L.): STD = 78" MAX
15. TOILET ROOM PARTITIONS: TOILETS = 12" TO BOT & 70" TO TOP. URINALS = 18" TO BOT & 60" TO TOP.
16. TOILET PAPER DISPENSERS (TO OUTLET): STD = 24". ADA = 15" MIN TO 48" MAX
17. WALL MOUNTED SOAP DISPENSERS (TO C.L. OF PUSH BUTTON): STD = 40". ADA = VARIES. RE: OBSTRUCTED AND UNOBSTRUCTED REACH RANGES. ADA SIDE REACH = 46" MAX ABOVE SINK INCOUNTER.
18. PAPER TOWEL DISPENSER (TO TOWEL SLOT): STD = 40" MAX. ADA FORWARD REACH = 48" MAX & 15" MIN. ADA SIDE REACH = 48" MAX & 15" MIN. RE: OBSTRUCTED AND UNOBSTRUCTED REACH RANGES. ADA SIDE REACH = 46" MAX. ABOVE SINK IN COUNTER.
19. WARM AIR HAND DRYER (TO PUSH SWITCH): STD = 44" MAX. ADA FORWARD REACH = 48" MAX & 15" MIN. ADA SIDE REACH = 48" MAX & 15" MIN
20. SANITARY NAPKIN DISPENSER (TO C.L. OF COIN SLOT): STD = 40" MAX. ADA FORWARD REACH = 48" MAX & 15" MIN. ADA SIDE REACH = 48" MAX & 15" MIN
21. SANITARY NAPKIN DISPOSAL (TO TOP OF UNIT): STD = 28" MAX. ADA = 19" MIN TO 24" MAX (TO OPNG)
22. TOILET SEAT COVER DISPENSERS (TO OPNG): STD = 40" MAX. ADA FORWARD REACH = 48" MAX & 15" MIN. ADA SIDE REACH = 48" MAX & 15" MIN
23. SHELVES: ADA = 48" MAX
24. COAT HOOKS: STD = 68". ADA = 48" MAX
25. CHALKBOARDS, TACKBOARDS,& MARKERBOARDS: STD = 32" TO 39" (TO B.O. BOARD OR CHALKTRAY). STD = 80" (RECOMMENDED, TO TOP OF BOARD)
26. THERMOSTATS & CONTROL DEVICES (TO TOP): ADA
27. FORWARD REACH = 48" MAX. ADA SIDE REACH = 48" MAX
28. LIGHT SWITCHES & CARD READERS (TO C.L.): LOCATE 6" FROM DOOR JAMB. ADA = 48" MAX
29. CONVENIENCE RECEPTACLES - ELECT/ TELEPHONE/ DATA (TO C.L.): STD = 18". ADA = 15" MIN
30. EXIT LIGHTS - WALL MOUNTED: 2" MIN BELOW CLG. 2" MIN ABOVE DOOR FRAME. EQUAL SPACE FROM CLG TO TOP OF FRAME.
31. FIRE EXTINGUISHERS (TO TOP, UNO): GROSS WT 40 LBS OR LESS = 60" MAX. GROSS WT MORE THAN 40 LBS = 42" MAX. ADA = 40" MAX (B.O. CABINET)
32. FIRE ALARM PULL STATIONS (TO LEVER): STD = 48" MAX. ADA FORWARD REACH = 48" MAX. ADA SIDE REACH = 48" MAX
33. SMOKE AND/OR HEAT DETECTORS: STD = CLG HT.
34. HORN/ SPEAKER/ VISUAL SIGNALS: STD = 80" AFF OR 6" BELOW CLG - WHICHEVER IS LOWER.
35. ROOM SIGNAGE (TO C.L.): STD = 60" HIGH AFF & WITHIN 18" OF LATCH SIDE OF DOOR.
36. ALL MINIMUM AND MAXIMUM DIMENSIONS ARE MEASURED FROM THE FACE OF FINISHED WALL, NOT THE FACE OF THE SUBSTRATE.
37. WHEN MAX, MIN OR DIMENSIONAL RANGE IS GIVEN, THE CONSTRUCTION TOLERANCE DURING INSTALLATION MUST FIT WITHIN THE GIVEN RANGE, MAX OR MIN DIMENSION. NO EXCEPTIONS.
38. PROVIDE KNEE PROTECTION ON EXPOSED WATER SUPPLIES, P-TRAP AND DRAIN PIPING.
39. PROVIDE BLOCKING INSIDE WALL FOR ALL HORIZONTAL AND VERTICAL GRAB BARS EVEN WHEN THEY ARE NOT INSTALLED AS PART OF PROJECT SCOPE OF WORK (TYP.)

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Development Services Department
Lee's Summit, Missouri
09/18/2025

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LEE'S SUMMIT JOINT OPERATIONS FACILITY

PACKAGE 2: CONSTRUCTION SET

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

REVISION DATES:

STATE OF MISSOURI
CHRISTOPHER BRUMBEI
NUMBER A-2016012111
ARCHITECT

PROFESSIONAL SEAL

G-022

ISSUE DATE: NOVEMBER 1, 2024
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ACCESSIBILITY GUIDELINES

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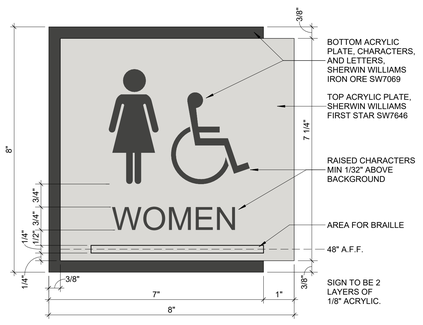
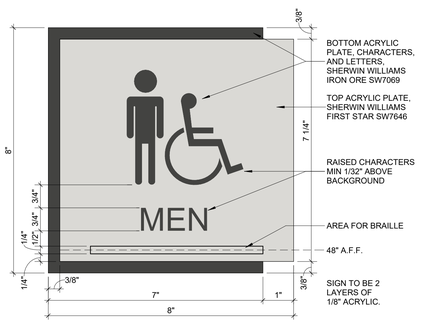
PACKAGE 2: CONSTRUCTION SET

REVISION DATES:

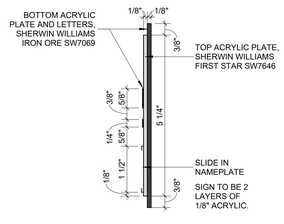
4	ADDENDUM 4	11/26/2024



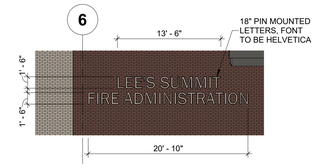
E10 SIGNAGE - TOILET WOMEN (W-RR)
6" = 1'-0"



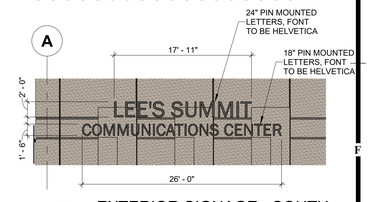
E7 SIGNAGE - TOILET MEN (M-RR)
6" = 1'-0"



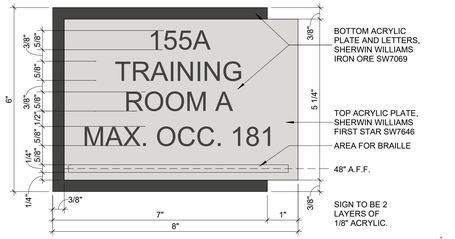
E5 SIGNAGE - ROOM NAME SECTION
6" = 1'-0"



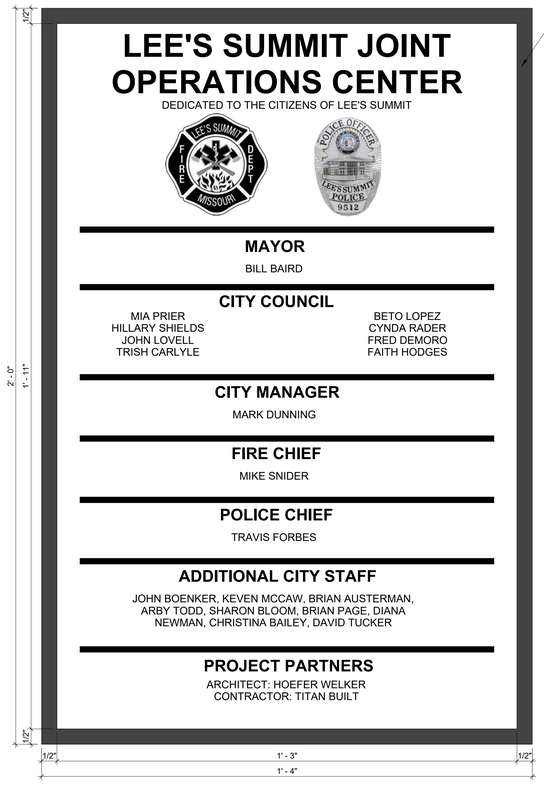
E3 EXTERIOR SIGNAGE - WEST
1/8" = 1'-0"



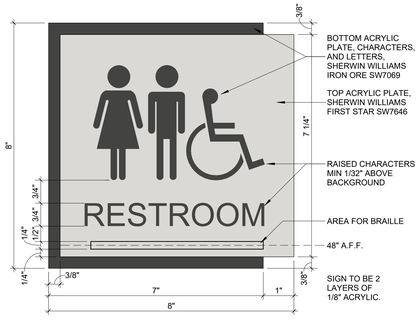
E1 EXTERIOR SIGNAGE - SOUTH
1/8" = 1'-0"



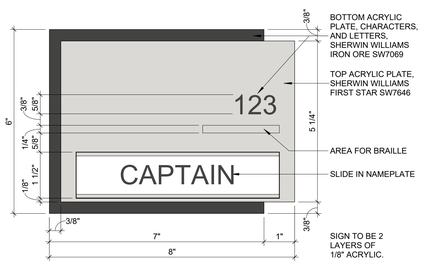
H1 SIGNAGE - ASSEMBLY
6" = 1'-0"



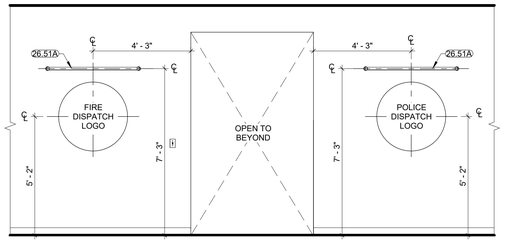
A10 SIGNAGE - DEDICATION
6" = 1'-0"



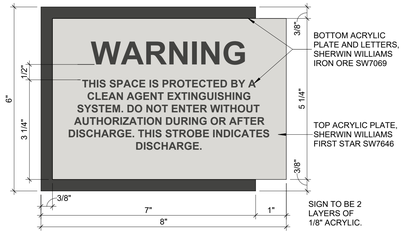
C7 SIGNAGE - TOILET UNISEX (RR)
6" = 1'-0"



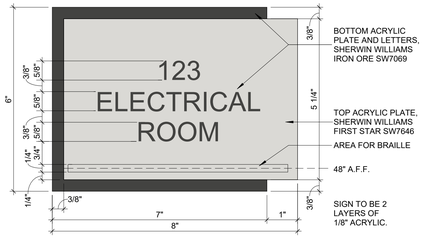
C5 SIGNAGE - OFFICE
6" = 1'-0"



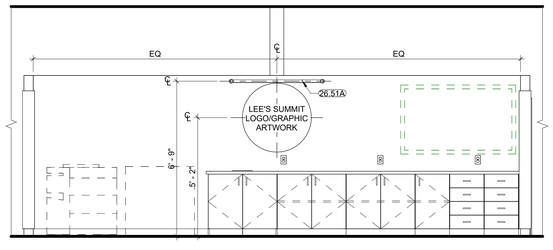
C1 010 COPY/WORK - W SIGNAGE
3/8" = 1'-0"



A7 SIGNAGE - FM200
6" = 1'-0"



A5 SIGNAGE - ROOM NAME
6" = 1'-0"



A1 010 COPY/WORK - E SIGNAGE
3/8" = 1'-0"

STATE OF MISSOURI
CHRISTOPHER KRIMMEL
NUMBER A-2010012121
11/26/24
ARCHITECT

PROFESSIONAL SEAL

G-023

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HOEFER WELKER #: 138191

SIGNAGE AND GRAPHIC ELEVATIONS

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Development Services Department
Lee's Summit, Missouri
09/18/2025

SIGNAGE SCHEDULE - LOWER LEVEL		
ROOM NUMBER	SIGN NAME	SIGNAGE TYPE
000	UTILITY YARD	ROOM NAME
007	QUALITY ASSURANCE	OFFICE
008	FIRE SUPERVISOR	OFFICE
009	KITCHEN	ROOM NAME
011	COMMUNICATIONS CENTER	ROOM NAME
012	WOMEN	TOILET WOMEN (W-RR)
013	MEN	TOILET MEN (M-RR)
015	POLICE SUPERVISOR	OFFICE
016	POLICE CAPATIN	OFFICE
017	DISTPATCH TRAINING	OFFICE
019	CONFERENCE	ROOM NAME
020	WATER ROOM	ROOM NAME
021	ELECTRICAL ROOM	ROOM NAME
022	MEDIA ROOM	ROOM NAME
023	COMMUNICATIONS STORAGE	ROOM NAME
025	QUIET ROOM	ROOM NAME
027	QUIET ROOM	ROOM NAME
028	QUIET ROOM	ROOM NAME
029	QUIET ROOM	ROOM NAME
030	JANITOR	ROOM NAME
031	RESTROOM	TOILET UNISEX (RR)
032	CHANGING	ROOM NAME
033	CHANGING	ROOM NAME
034	CHANGING	ROOM NAME
035	LOCKER ROOM	ROOM NAME
036	SHOWER	ROOM NAME
038	ADA SHOWER	ROOM NAME
039	GENERAL STORAGE	ROOM NAME
040	ELECTRICAL ROOM	ROOM NAME
041	IT	ROOM NAME
042	LOCADING DOCK	ROOM NAME
045	INFORMATION TECHNOLOGY	ROOM NAME
047	IT WORK ROOM	ROOM NAME
048	988	ROOM NAME
049	FITNESS	ROOM NAME
ST-1	STAIR	ROOM NAME

A1 LOWER LEVEL SIGNAGE PLAN
1/8" = 1'-0"

NORTH

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LEE'S SUMMIT JOINT OPERATIONS FACILITY

PACKAGE 2: CONSTRUCTION SET

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

REVISION DATES:

STATE OF MISSOURI
CHRISTOPHER KRUMREI
NUMBER A-2016012121
11/1/24
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G-024

ISSUE DATE: NOVEMBER 1, 2024
HOEFER WELKER #: 138191

LOWER LEVEL - SIGNAGE PLAN

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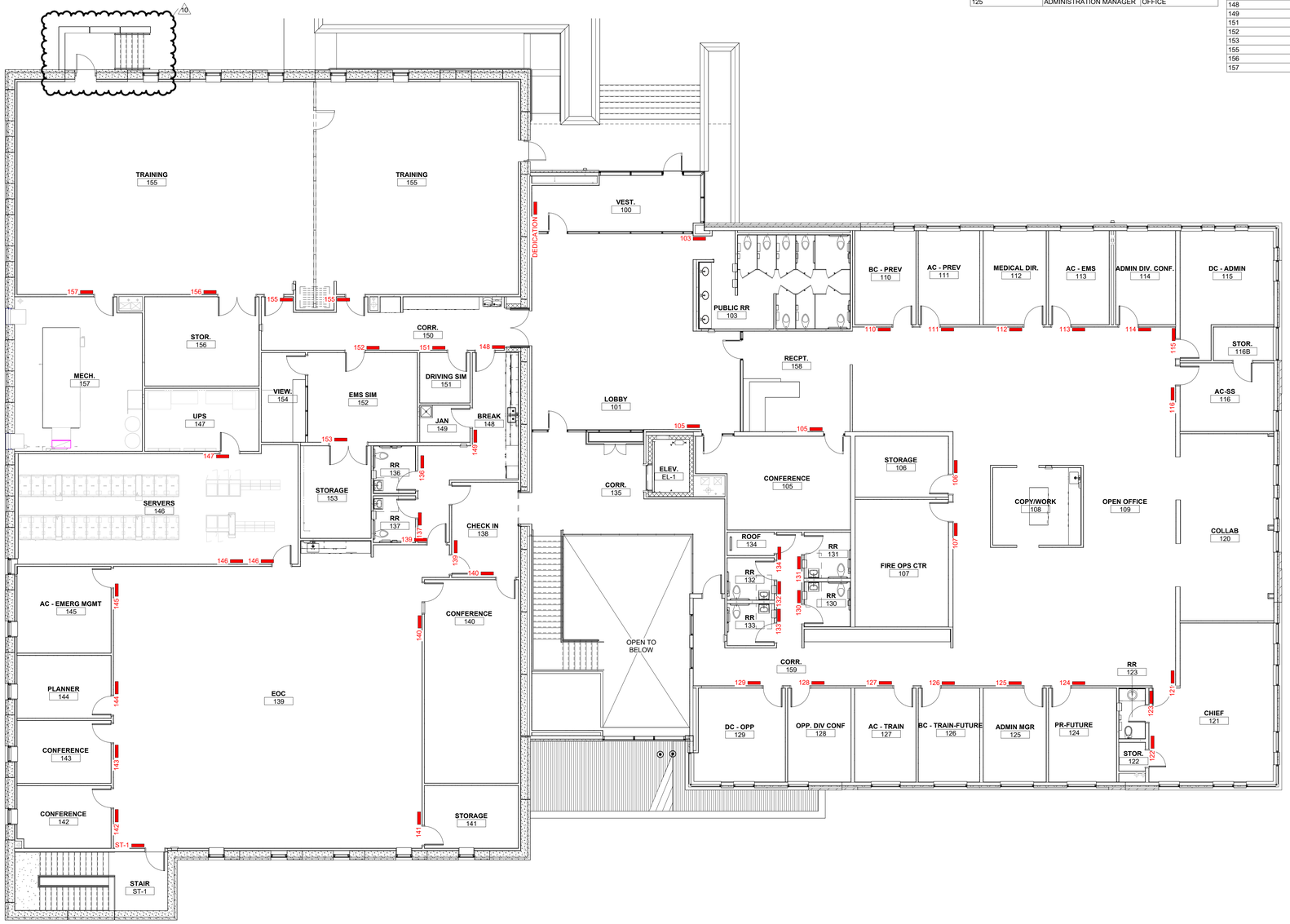
Lee's Summit, Missouri
09/18/2025

SIGNAGE SCHEDULE - MAIN LEVEL		
ROOM NUMBER	SIGN NAME	SIGNAGE TYPE
103	PUBLIC RESTROOM	TOILET UNISEX (RR)
105	CONFERENCE	ROOM NAME
106	STORAGE	OFFICE
107	FIRE OPERATIONS CENTER	ROOM NAME
110	BATTALION CHIEF PREVENTION	OFFICE
111	ASSISTANT CHIEF PREVENTION	OFFICE
112	MEDICAL DIRECTOR	OFFICE
113	ASSISTANT CHIEF EMS	OFFICE
114	ADMINISTRATIVE CONFERENCE	ROOM NAME
115	DEPUTY CHIEF ADMINISTRATION	OFFICE
116	ASSISTANT CHIEF SUPPORT SERVICES	OFFICE
116B	STORAGE	ROOM NAME
121	FIRE CHIEF	OFFICE
122	STORAGE	ROOM NAME
123	RESTROOM	TOILET UNISEX (RR)
124	PUBLIC RELATIONS	OFFICE
125	ADMINISTRATION MANAGER	OFFICE

SIGNAGE SCHEDULE - MAIN LEVEL		
ROOM NUMBER	SIGN NAME	SIGNAGE TYPE
126	BATTALION CHIEF TRAINING	OFFICE
127	ASSISTANT CHIEF TRAINING	OFFICE
128	OPERATIONS DIVISION CONFERENCE	ROOM NAME
129	DEPUTY CHIEF OPERATIONS	OFFICE
130	RESTROOM	TOILET UNISEX (RR)
131	RESTROOM	TOILET UNISEX (RR)
132	RESTROOM	TOILET UNISEX (RR)
133	RESTROOM	TOILET UNISEX (RR)
134	ROOF ACCESS	ROOM NAME
139	EMERGENCY OPERATIONS CENTER	ROOM NAME
140	CONFERENCE	ROOM NAME
141	STORAGE	ROOM NAME
142	CONFERENCE	ROOM NAME
143	CONFERENCE	ROOM NAME
144	PLANNER	OFFICE
145	ASSISTANT CHIEF EMERGENCY MANAGEMENT	OFFICE
146	SERVER ROOM	ROOM NAME/FM200
147	UPS	ROOM NAME
148	BREAK ROOM	ROOM NAME
149	JANITOR	ROOM NAME
151	DRIVING SIMULATOR	ROOM NAME
152	EMS SIMULATOR	ROOM NAME
153	STORAGE	ROOM NAME
155	TRAINING ROOM	ASSEMBLY
156	STORAGE	ROOM NAME
157	MECHANICAL	ROOM NAME



A1 MAIN LEVEL SIGNAGE PLAN
1/8" = 1'-0"

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LEE'S SUMMIT JOINT OPERATIONS FACILITY

PACKAGE 2: CONSTRUCTION SET

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

REVISION DATES:

4	ADDENDUM 4	11/26/2024
10	CCD 002	1/24/2025

STATE OF MISSOURI
CHRISTOPHER KRUMREI
NUMBER A-2016011211
ARCHITECT
11/24/25

PROFESSIONAL SEAL

G-025

ISSUE DATE: DECEMBER 20, 2024
HOEFER WELKER #: 138191

MAIN LEVEL - SIGNAGE PLAN

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Development Services Department
Lee's Summit, Missouri
09/18/2025

CODE INFORMATION:
PROJECT:LEE'S SUMMIT JOINT OPERATIONS FACILITY
LOCATION: LEE'S SUMMIT, MO

ARCHITECT:
HOEFER WELKER
4622 PENNSYLVANIA AVE. SUITE 1400
KANSAS CITY, MO 64112

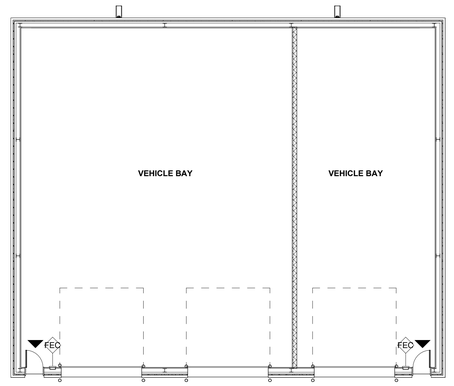
APPLICABLE CODES:

APPLICABLE BUILDING CODE:	**2018 INTERNATIONAL BUILDING CODE**
APPLICABLE MECHANICAL CODE:	**2018 INTERNATIONAL MECHANICAL CODE**
APPLICABLE PLUMBING CODE:	**2018 INTERNATIONAL PLUMBING CODE**
APPLICABLE ELECTRICAL CODE:	**2017 NATIONAL ELECTRICAL CODE**
APPLICABLE FIRE CODE	**2018 INTERNATIONAL FIRE CODE**
APPLICABLE ACCESSIBILITY CODE:	**2009 ICC/ANSI A117.1**

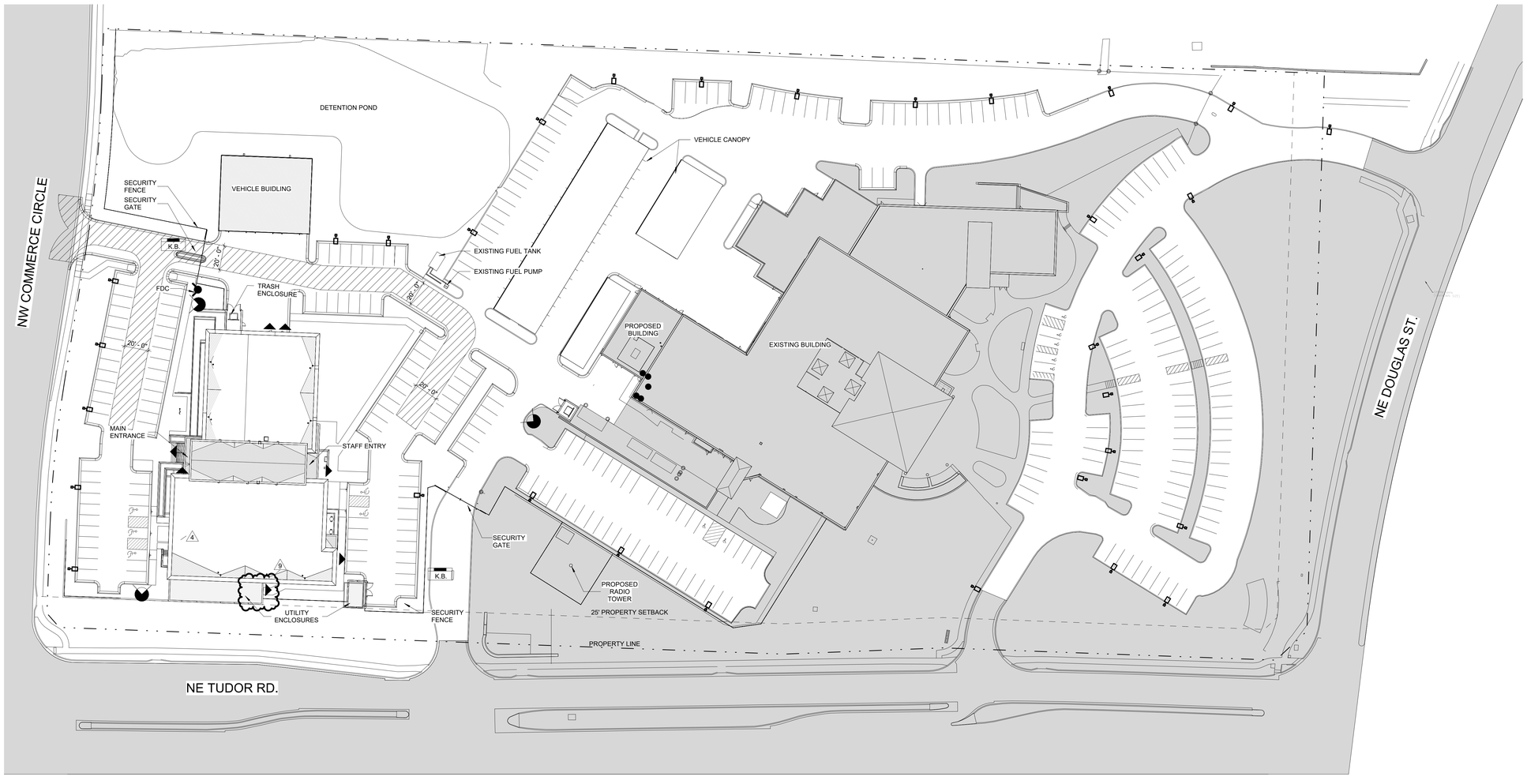
ISSUE (TABLE/ SECTION/ REFERENCE):	**REQUIREMENT:**	**TABLE/SECTION/REFERENCE:**
BUILDING/PROJECT USE:	VEHICLE STORAGE (NOT A REPAIR GARAGE)	SECTION 311
CONSTRUCTION TYPE :	TYPE VB (FULLY SPRINKLED)	TABLE 601
OCCUPANCY CLASSIFICATION:	S-2 STORAGE	SECTION 311

	REQUIREMENT:	**TABLE/SECTION/REFERENCE:**
BUILDING AREA:		
BASE ALLOWABLE AREA	54,000 SF PER FLOOR	TABLE 506.2
ACTUAL GROSS FLOOR AREA	4,724 SF	
BUILDING HEIGHT:		
ALLOWABLE STORIES ABOVE GRADE	3 STORIES	TABLE 504.4
ALLOWABLE HEIGHT	60'	TABLE 504.3
ACTUAL NUMBER OF STORIES ABOVE GRADE	1 STORIES	
ACTUAL HEIGHT IN FEET ABOVE GRADE	21'-0"	
OCCUPANT LOAD - GSF:		
TOTAL BUILDING OCCUPANTS	4,724 SF / 300 = 16 OCCUPANTS	TABLE 1004.5
EXIT TRAVEL DISTANCE - FULLY SPRINKLED):		
S OCCUPANCY	250'	TABLE 1017.2
COMMON PATH OF TRAVEL	100'	SECTION 1006.2.1
DEAD END CORRIDOR	50'	SECTION 1020.4
EXIT WIDTH:		
EXIT DOOR WIDTH REQUIRED	16 TOTAL OCCUPANTS X .15 = 3"	SECTION 1005.3.2
EXIT DOOR WIDTH PROVIDED	2 DOORS X 33" = 66"	

FIRE RESISTIVE REQUIREMENTS (TABLE/ SECTION/ REFERENCE):	**REQUIREMENTS CONSTRUCTION TYPE IIB:**	**TABLE/SECTION/REFERENCE**
EXTERIOR BEARING WALLS	0 HRS	TABLE 601
EXTERIOR OPENINGS	NO LIMIT	TABLE 716.1
EXTERIOR NON-BEARING WALLS	0 HRS	TABLE 601
INTERIOR BEARING WALLS	0 HRS	TABLE 601
INTERIOR NON-BEARING WALLS	0 HRS	TABLE 601
STRUCTURAL FRAME	0 HRS	TABLE 601
FLOOR CONSTRUCTION	0 HRS	TABLE 601
ROOF	0 HRS	TABLE 601
CORRIDORS	0 HRS	TABLE 1018.1



G1 VEHICLE BUILDING LIFE SAFETY
3/32" = 1'-0"



NORTH

A1 LIFE SAFETY SITE PLAN
1" = 40'-0"

GENERAL NOTES - ARCHITECTURAL SITE:

1. RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. ARCHITECTURAL ELEVATION 100'-0" = CIVIL ELEVATION 1024.67'.
3. ALL SIDEWALKS SHALL SLOPE 1/4 INCH PER FOOT AWAY FROM THE BUILDING, UNLESS NOTED OTHERWISE.
4. ALL GRADES SHALL SLOPE AWAY FROM THE BUILDING AT 5 PERCENT FOR THE FIRST 10 FT.
5. LOCATIONS AND SIZES OF ALL CONCRETE MECHANICAL AND ELECTRICAL PADS SHALL BE COORDINATED BY THE MECHANICAL AND ELECTRICAL CONTRACTORS, WITH THE SELECTED EQUIPMENT MANUFACTURER / SUPPLIER; AND ARE TO BE APPROVED BY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.

SITE LIFE SAFETY LEGEND

- FIRE TRUCK ROUTE THROUGH SITE
- PROPERTY LINE
- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION
- BUILDING EGRESS
- K.B. — KNOX BOX

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LEE'S SUMMIT JOINT OPERATIONS FACILITY

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

PACKAGE 2: CONSTRUCTION SET

REVISION DATES:

4	ADDENDUM 4	11/26/2024
9	CCD 001	1/29/2025

STATE OF MISSOURI
CHRISTOPHER KRUMREI
NUMBER A-2016011211
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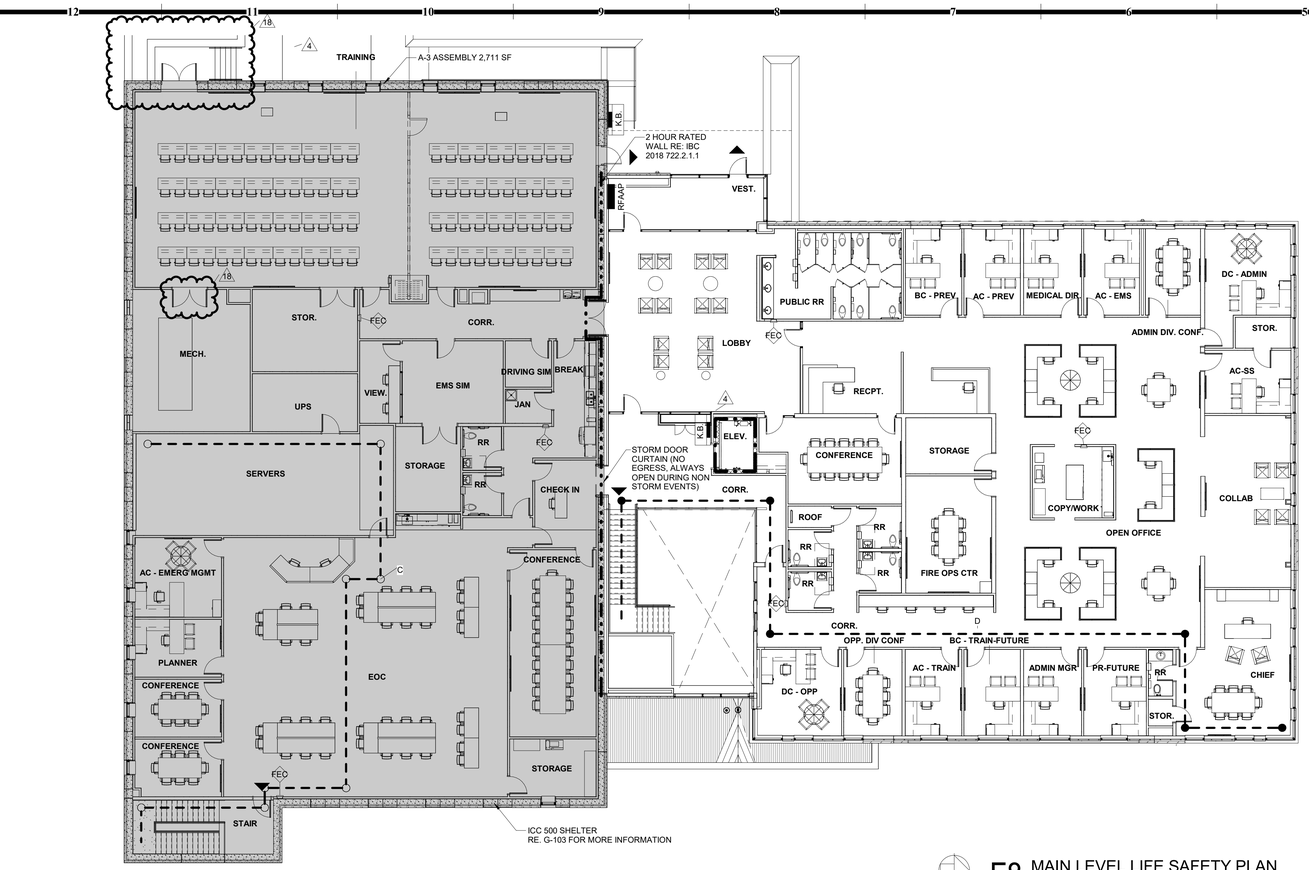
11/25/24

PROFESSIONAL SEAL

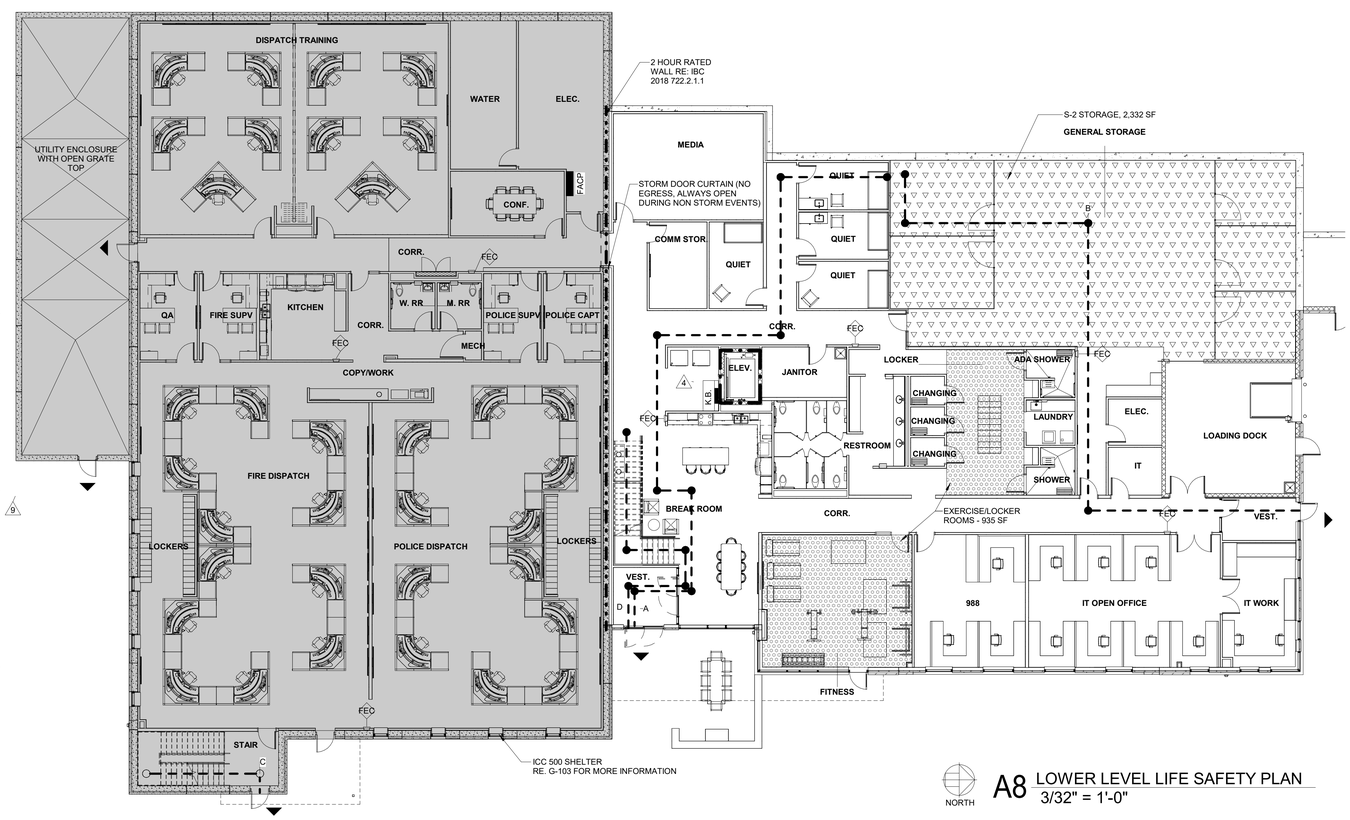
G-101

ISSUE DATE: DECEMBER 20, 2024
HOEFER WELKER #: 138191

LIFE SAFETY SITE PLAN



F8 MAIN LEVEL LIFE SAFETY PLAN
3/32" = 1'-0"



A8 LOWER LEVEL LIFE SAFETY PLAN
3/32" = 1'-0"

CODE INFORMATION:
PROJECT:LEE'S SUMMIT JOINT OPERATIONS FACILITY
LOCATION: LEE'S SUMMIT, MO

ARCHITECT:
HOEFFER WELKER
4622 PENNSYLVANIA AVE. SUITE 1400
KANSAS CITY, MO 64112

APPLICABLE CODES:

APPLICABLE BUILDING CODE:	**2018 INTERNATIONAL BUILDING CODE**
APPLICABLE MECHANICAL CODE:	**2018 INTERNATIONAL MECHANICAL CODE**
APPLICABLE PLUMBING CODE:	**2018 INTERNATIONAL PLUMBING CODE**
APPLICABLE ELECTRICAL CODE:	**2017 NATIONAL ELECTRICAL CODE**
APPLICABLE FIRE CODE	**2018 INTERNATIONAL FIRE CODE**
APPLICABLE ACCESSIBILITY CODE:	**2009 ICC/ANSI A117.1**
APPLICABLE STORM SHELTER CODE:	**2014 ICC 500**

ISSUE (TABLE/ SECTION/ REFERENCE):	**REQUIREMENT:**	**TABLE/SECTION/REFERENCE:**
BUILDING/PROJECT USE:	BUSINESS	SECTION 304
CONSTRUCTION TYPE :	TYPE IIB (FULLY SPRINKLED)	TABLE 601
OCCUPANCY CLASSIFICATION:	A-3 - ASSEMBLY	SECTION 303.4
USE CLASSIFICATION	B - BUSINESS	SECTION 304
BUILDING AREA:	**REQUIREMENT:**	**TABLE/SECTION/REFERENCE:**
BASE ALLOWABLE AREA - NON SEPARATED MIXED USE		
A OCCUPANCY ALLOWABLE:	28,500 SF PER FLOOR	TABLE 506.2
ACTUAL GROSS FLOOR AREA		
LOWER LEVEL	21,817 SF	
MAIN LEVEL	21,822 SF	
TOTAL	43,639 SF	
BUILDING HEIGHT:		
ALLOWABLE STORIES ABOVE GRADE	3 STORIES	TABLE 504.4
ALLOWABLE HEIGHT	75'	TABLE 504.3
ACTUAL NUMBER OF STORIES ABOVE GRADE	2 STORIES	
ACTUAL HEIGHT IN FEET ABOVE GRADE	40'-8"	
OCCUPANT LOAD - GSF:		
LOWER LEVEL		
B OCCUPANCY	18,550 SF / 150 = 124 OCCUPANTS	TABLE 1004.5
B OCCUPANCY - EXERCISE/LOCKER ROOMS	935 SF / 50 = 19 OCCUPANTS	TABLE 1004.5
S-2 OCCUPANCY	2,332 SF / 300 = 8 OCCUPANTS	TABLE 1004.5
LOWER LEVEL TOTAL OCCUPANTS	151 TOTAL LOWER LEVEL OCCUPANTS	
MAIN LEVEL		
B OCCUPANCY	19,111 SF / 150 = 128 OCCUPANTS	TABLE 1004.5
A-3 OCCUPANCY	2,711 SF / 15 = 181 OCCUPANTS	TABLE 1004.5
MAIN LEVEL TOTAL OCCUPANTS	309 TOTAL MAIN LEVEL OCCUPANTS	
TOTAL BUILDING OCCUPANTS	460 TOTAL BUILDING OCCUPANTS	
EXIT TRAVEL DISTANCE - FULLY SPRINKLED):		
A OCCUPANCY	250'	TABLE 1017.2
COMMON PATH OF TRAVEL	75'	SECTION 1006.2.1
DEAD END CORRIDOR	20'	SECTION 1020.4
B OCCUPANCY	300'	TABLE 1017.2
COMMON PATH OF TRAVEL	100'	SECTION 1006.2.1
DEAD END CORRIDOR	50'	SECTION 1020.4
EXIT WIDTH:		
LOWER LEVEL EXIT DOOR WIDTH REQUIRED	151TOTAL OCCUPANTS X .15 = 23"	SECTION 1005.3.2
EXIT DOOR WIDTH PROVIDED	4 DOORS X 33" = 132"	
MAIN LEVEL EXIT DOOR WIDTH REQUIRED	309 TOTAL OCCUPANTS X .15 = 47"	SECTION 1005.3.2
EXIT DOOR WIDTH PROVIDED	2 DOORS X 33" = 66"	
EXIT STAIR WIDTH REQUIRED	309/4 "OCCUPANTS X .20 = 16" @ EACH STAIR	SECTION 1005.3.1
EXIT STAIR WIDTH PROVIDED	2 STAIRS 47" + 55" = 102"	

FIRE RESISTIVE REQUIREMENTS (TABLE/ SECTION/ REFERENCE):	**REQUIREMENTS CONSTRUCTION TYPE IIB:**	**TABLE/SECTION/REFERENCE**
EXTERIOR BEARING WALLS	0 HRS	TABLE 601
EXTERIOR OPENINGS	NO LIMIT	TABLE 716.1
EXTERIOR NON-BEARING WALLS	0 HRS	TABLE 601
INTERIOR BEARING WALLS	0 HRS	TABLE 601
INTERIOR NON-BEARING WALLS	0 HRS	TABLE 601
STRUCTURAL FRAME	0 HRS	TABLE 601
FLOOR CONSTRUCTION	0 HRS	TABLE 601
ROOF	0 HRS	TABLE 601
CORRIDORS	0 HRS	TABLE 1018.1
SHAFT WALLS	1 HRS	TABLE 713.4
EXIT ACCESS STAIRWAYS	0 HRS	TABLE 1019.3
STORM SHELTER	2 HRS	2014 ICC 500 601.1

PLUMBING FIXTURES REQUIRED CHART (IBC 2018 TABLE 2902.1):

OCCUPANT LOADS:	MALE	FEMALE	UNISEX
B - TOTAL OCCUPANT LOAD = 305 OCCUPANTS	153	153	-
A - TOTAL OCCUPANT LOAD = 181 OCCUPANTS	91	91	-
WATER CLOSETS (IBC 2018 TABLE 2902.1):			
B - OCCUPANT WATER CLOSETS REQUIRED			
(1 PER 25 FOR THE FIRST 50 & 1 PER 50 FOR THE REMAINDER EXCEEDING 50)	5	5	-
A - OCCUPANT WATER CLOSETS REQUIRED (1 PER 125 MALE, 1 PER 65 FEMALE)	1	2	-
TOTAL WATER CLOSETS REQUIRED	6	7	-
TOTAL WATER CLOSETS PROVIDED	1	1	20
LAVATORIES (IBC 2018 TABLE 2902.1):			
B - OCCUPANT LAVATORIES REQUIRED			
(1 PER 40 FOR THE FIRST 80 & 1 PER 80 FOR THE REMAINDER EXCEEDING 80)	3	3	-
A - OCCUPANT LAVATORIES REQUIRED (1 PER 200)	1	1	-
TOTAL LAVATORIES REQUIRED	4	4	-
LAVATORIES PROVIDED	1	1	12

DRINKING FOUNTAINS (IBC 2018 TABLE 2902.1):	
B - OCCUPANTS - (1 PER 100 TOTAL OCCUPANTS)	4
A - OCCUPANTS - (1 PER 500 TOTAL OCCUPANTS)	1
TOTAL DRINKING FOUNTAINS REQUIRED	5
TOTAL DRINKING FOUNTAINS (DF), AND FILTERED WATER (FW) PROVIDED	5 (2 DF + 3 FW)
SERVICE SINK (1 PER FLOOR)	2

LIFE SAFETY LEGEND

- DIRECTION OF EGRESS TRAVEL
- FEC — FIRE EXTINGUISHER CABINET
- RFAAP — REMOTE FIRE ALARM ANNUNCIATOR PANEL
- FACP — FIRE ALARM CONTROL PANEL
- FDC — FIRE DEPARTMENT CONNECTION
- K.B. — KNOX BOX
- 1 HOUR RATED WALL
- 2 HOUR RATED WALL
- STORM SHELTER
- A-3 ASSEMBLY
- S-2 STORAGE
- B-EXERCISE/LOCKER ROOMS

CODE REQUIRED SIGNAGE NOTE:

1. CODE REQUIRED SIGNAGE PER ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION INCLUDING BUT NOT LIMITING TO IBC, IFC, NFPA, ICC A117.1, ADAGA, FGI, AND AHJ REGULATIONS SHALL BE PROVIDED.
2. CODE REQUIRED SIGNAGE IS DESIGNED, SPECIFIED, AND INSTALLED BY CONTRACTOR.
3. CODE REQUIRED SIGNAGE IS REQUIRED TO BE INSTALLED PRIOR TO REQUESTING FINAL INSPECTION IN ORDER TO OBTAIN CERTIFICATE OF OCCUPANCY
4. CODE REQUIRED SIGNAGE MUST BE VERIFIED PER PROJECT. SOME EXAMPLES OF CODE REQUIRED SIGNAGE INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:
   - A. REQUIRED ACCESSIBLE SIGNAGE:
     - a. ADA PARKING SPACES
     - b. ACCESSIBLE PASSENGER LOADING ZONES
     - c. ACCESSIBLE TOILETS
     - d. FAMILY OR ASSISTED-USE TOILET AND BATHING ROOMS
     - e. ACCESSIBLE DRESSING ROOMS
   - B. DIRECTIONAL SIGNAGE INCLUDING:
     - a. AT EACH SEPARATE SEX TOILET AND BATHING ROOM INDICATING THE LOCATION OF THE NEAREST FAMILY/ ASSISTED USE TOILET OR BATHING ROOM
     - b. ALL EXITS AND EXIT STAIRWAYS SERVING A REQUIRED ACCESSIBLE SPACE
     - c. DIRECTIONAL SIGNAGE AT ELEVATOR LANDINGS TO SHOW EXIT LOCATIONS
   - C. OTHER CODE SIGNAGE INCLUDING:
     - a. ELEVATOR TWO-WAY COMMUNICATING SYSTEMS
     - b. INTERIOR EXIT STAIRWAYS AND RAMPS, FLOOR LEVEL SIGNAGE INCLUDING STAIR WITH ROOF ACCESS
     - c. ELECTRICAL ROOMS
     - d. COMMUNICATION/ DATA ROOMS
     - e. MAXIMUM CAPACITY AT ASSEMBLY AREAS

EGRESS (MAXIMUM TRAVEL...	
TYPE	**DISTANCE**
Egress Path A	134' - 0"
Egress Path B	127" - 1"
Egress Path C	174' - 5"
Egress Path D	208' - 8"

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Lee's Summit, Missouri
09/18/2025

LEE'S SUMMIT JOINT OPERATIONS FACILITY

PACKAGE 2: CONSTRUCTION SET

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

REVISION DATES:

4	ADDENDUM 4	11/26/2024
9	CCD 001	1/29/2025
18	CCD 003	5/5/2025

STATE OF MISSOURI
CHRISTOPHER KRUMREI
NUMBER A-2016013211
5/5/25
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PROFESSIONAL SEAL

G-102

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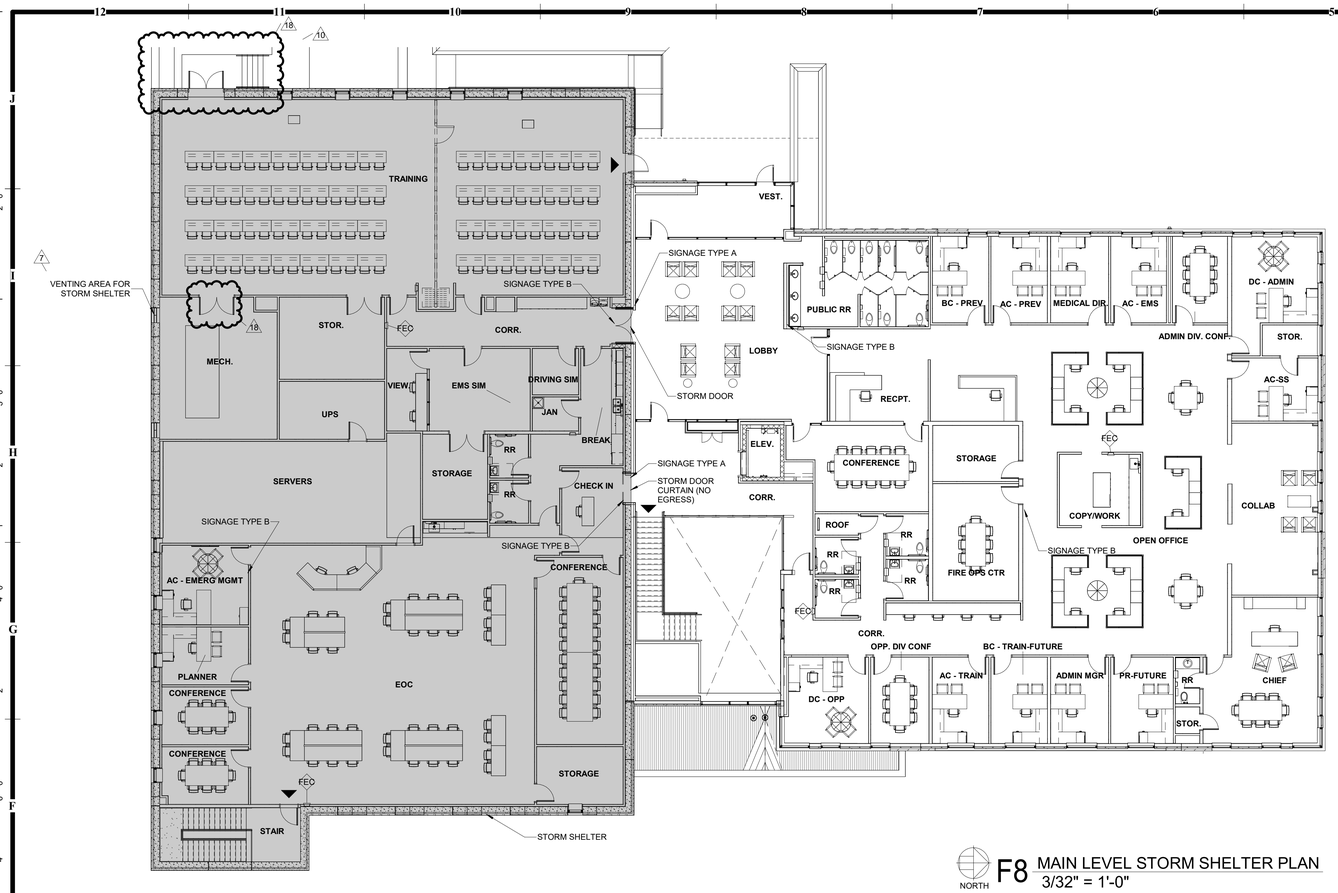
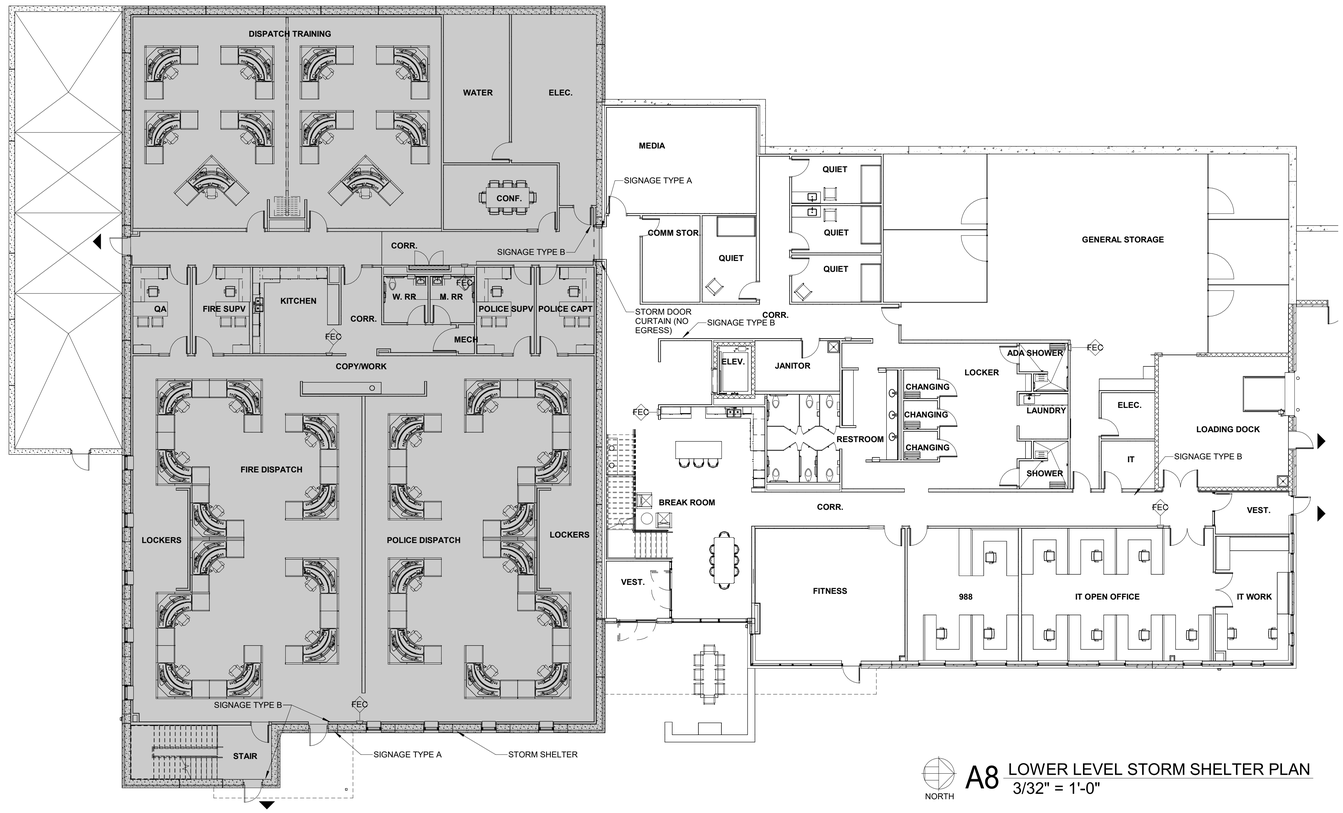
LIFE SAFETY PLANS



NORTH **F8** MAIN LEVEL STORM SHELTER PLAN
3/32" = 1'-0"



NORTH **A8** LOWER LEVEL STORM SHELTER PLAN
3/32" = 1'-0"

SHELTER OCCUPANCY

OCCUPANCY OF SHELTER:

THE OCCUPANCY OF THE SHELTER IS BASED ON THE TOTAL STAFF OCCUPANCY OF ALL BUILDINGS ON THE SITE:
TOTAL SHELTER OCCUPANCY = 100 OCCUPANTS

SHELTER AREA REQUIRED:
99 STANDING/SEATED x 5 OLF = 495 SF
1 WHEELCHAIRS x 10 OLF = 10 SF
TOTAL = 505 SF

STORM SHELTER AREA PROVIDED = 11,767 SF

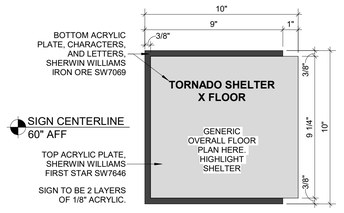
REQUIRED SHELTER SANITATION FACILITIES:

TOILETS
REQUIRED
1 TOILETS REQUIRED PER 50 OCCUPANTS = 2
PROVIDED = 4 TOILETS

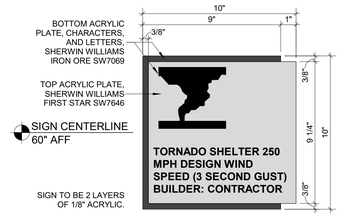
HANDWASHING
REQUIRED
1 PER 100 OCCUPANTS (TABLE 702.2) = 1
PROVIDED = 4 LAVATORIES

REQUIRED DESIGN INFORMATION

1. SHELTER TYPE: COMMUNITY
2. WIND DESIGN CONFORMS TO THE PROVISIONS OF ICC 500-2014, ICC/NSSA STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS.
3. SHELTER DESIGN WIND SPEED: 250 MPH
4. WIND EXPOSURE CATEGORY: RE S-000.
5. INTERNAL PRESSURE COEFFICIENT: RE S-000.
6. TOPOGRAPHIC FACTOR: RE S-000.
7. DIRECTIONAL FACTOR: RE S-000.
8. THE SHELTER IS NOT WITHIN AN AREA SUSCEPTIBLE TO FLOODING IN ACCORDANCE WITH ICC-500 2014 CHAPTER 4.
9. CLOSEST 500 YR (1%)
   FLOOD ELEVATION: **936**
   SHELTER ELEVATION: **1010**
10. SHELTER ENVELOPE MEETS THE PRESSURE AND MISSILE IMPACT TEST REQUIREMENTS IDENTIFIED IN 2014 ICC 500, CHAPTERS 3 AND 8. REFERENCE STRUCTURAL DOCUMENTS FOR WALL AND FLOOR SLAB CONSTRUCTION. REFERENCE MECHANICAL DOCUMENTS FOR LOUVERS. REFERENCE ARCHITECTURAL DOCUMENTATION FOR DOORS AND OVERHEAD COILING DOOR INFORMATION.
11. REFERENCE THIS SHEET FOR STORM SHELTER PLANS.
12. REFERENCE A-301 FOR STORM SHELTER ELEVATIONS
13. LOWEST SHELTER FLOOR ELEVATION: **1010'**
    CORRESPONDING DATUM: **85' - 4"**
14. REQUIRED OCCUPANT LOAD OF SHELTER: **100**.
15. USABLE STORM SHELTER FLOOR AREA: **11,767 SF**
16. VENTING AREA PROVIDED AND LOCATIONS WITHIN SHELTER: **VENTING AREA IS 2,072 IN^2. STORM SHELTER IS MECHANICALLY VENTED TO IMC 2018 STANDARDS. LOCATION SHOWN ON F8/G-103.**
17. CALCULATIONS FOR NUMBER OF SANITATION FACILITIES IN COMMUNITY SHELTER (PER 2014 ICC-500, TABLE 702.2) REFERENCE "REQUIRED SHELTER PLUMBING FIXTURES" CALCULATION ABOVE. **4** TOILETS AND **2** LAVATORIES ARE REQUIRED.
18. MINIMUM FOUNDATION CAPACITY: RE S-000.
19. SHELTER INSTALLATION REQUIREMENTS, INCLUDING ANCHOR LOCATIONS AND MINIMUM REQUIRED CAPACITY AT EACH ANCHOR: REF STRUCTURAL DOCUMENT



G3 STORM SHELTER SIGN TYPE B
3" = 1'-0"



G1 STORM SHELTER SIGN TYPE A
3" = 1'-0"

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LEE'S SUMMIT JOINT OPERATIONS FACILITY

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PACKAGE 2: CONSTRUCTION SET

REVISION DATES:

7	ASI 004	2/12/2025
10	CCD 002	1/24/2025
18	CCD 003	5/5/2025

STATE OF MISSOURI
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STORM SHELTER COMPLIANCE

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Lee's Summit, Missouri
09/18/2025

GENERAL NOTES - GRID GEOMETRY PLANS:

1. RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. DIMENSIONS FOR EDGE OF SLAB, SLAB OPENINGS, SLAB DEPRESSIONS, AND/ OR THICKENED SLABS ARE SHOWN ON THE STRUCTURAL DRAWINGS.
3. WP = WORK POINTS.
4. CONTRACTOR IS TO START THE BUILDING LAYOUT FROM THE FIRST WORK POINT, THEN THE NEXT, ETC, - TO ESTABLISH THE GRID GEOMETRY FOR THE BUILDING.
5. WORK POINTS ARE TO BE COORDINATED FROM THE (G-11111 SHEETS) ARCHITECTURAL GRID GEOMETRY PLAN(S) - FOR THE CIVIL AND STRUCTURAL DRAWINGS.
6. WORK POINTS ON CIVIL DRAWINGS SHOW THEIR ASSOCIATED LONGITUDE AND LATITUDE - FOR CORRECT PLACEMENT OF THE BUILDING ON THE SITE.
7. ANY DISCREPANCIES BETWEEN THE ARCHITECTURAL DRAWINGS AND THE CIVIL OR STRUCTURAL DRAWINGS SHALL BE REPORTED TO THE ARCHITECT IN WRITING FOR RESOLUTION, PRIOR TO PROCEEDING WITH THE WORK.

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PACKAGE 2: CONSTRUCTION SET

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3	ADDENDUM 3	11/18/2024
9	CCD 001	1/29/2025

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ISSUE DATE: DECEMBER 20, 2024
HOEFER WELKER #: 138191

GRID GEOMETRY PLAN

A1 LOWER LEVEL GRID GEOMETRY PLAN
1/8" = 1'-0"

NORTH

1/30/2025 9:44:10 AM Autodesk Docs://138191-LeesSummitJointOpsCtr/138191_A23_LeesSummitJointOpsCtr.rvt

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GENERAL NOTES - GRID GEOMETRY PLANS:

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G-112

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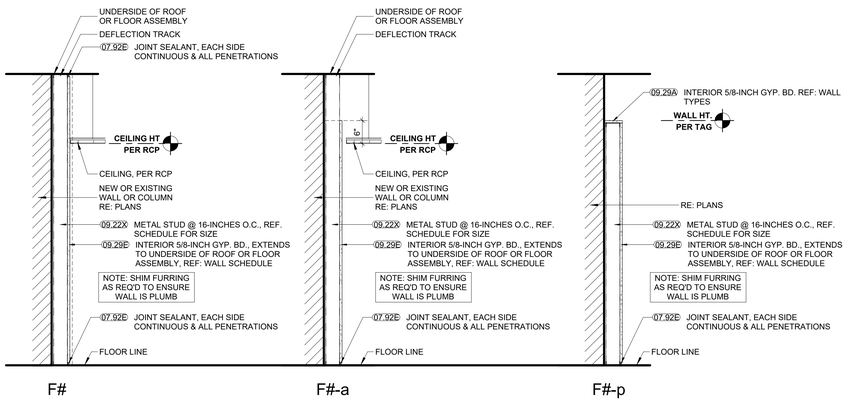
HOEFER WELKER #: 138191

GRID GEOMETRY PLAN

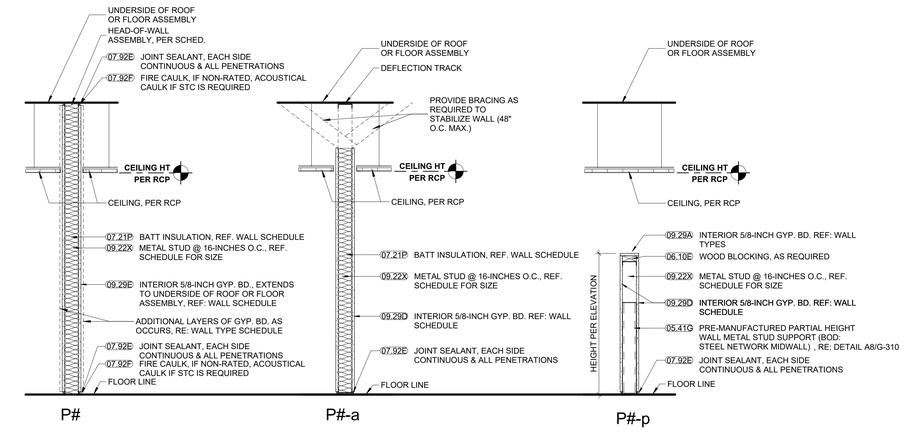
NORTH

A1 MAIN LEVEL GRID GEOMETRY PLAN
1/8" = 1'-0"



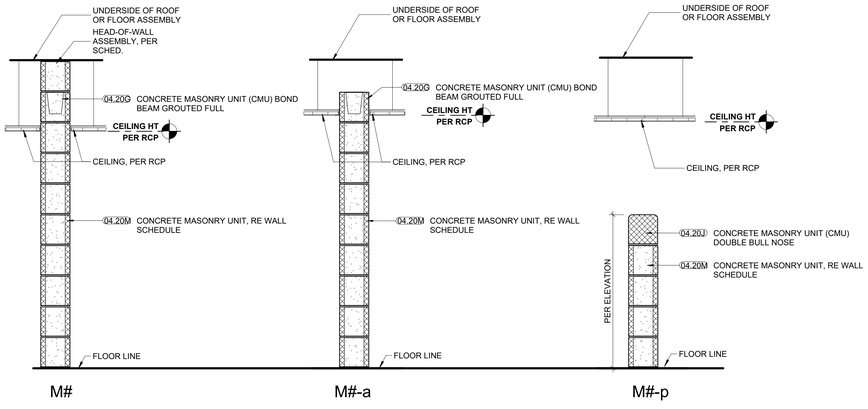
F = FURRING PARTITION TYPE

MARK	TOTAL THICKNESS	STUD SIZE	FIRE RATING (HR) OR EXTENTS	MODIFIER	GYPSUM_BOARD	INSULATION THICKNESS
F0-a	1 1/2"	7/8"	a = EXTEND GYP 6" MIN ABOVE CEILING	-	1 LAYER OF 5/8", ONE SIDE	-
F1-a	2 1/4"	1 5/8"	a = EXTEND GYP 6" MIN ABOVE CEILING	-	1 LAYER OF 5/8", ONE SIDE	-
F1-av	2 7/8"	1 5/8"	a = PARTIAL HEIGHT WALL (RE: ELEVATIONS)	v = 2 LAYERS GYPSUM BOARD ON FITNESS SIDE, 1 LAYER ON OTHER	1 LAYER OF 5/8", ONE SIDE	-
F3	4 1/4"	3 5/8"	-	-	1 LAYER OF 5/8", ONE SIDE	3 1/2"
F3-a	4 1/4"	3 5/8"	a = EXTEND GYP 6" MIN ABOVE CEILING	-	1 LAYER OF 5/8", ONE SIDE	3 1/2"
F3-av	4 7/8"	3 5/8"	a = PARTIAL HEIGHT WALL (RE: ELEVATIONS)	v = 2 LAYERS GYPSUM BOARD ON FITNESS SIDE, 1 LAYER ON OTHER	1 LAYER OF 5/8", ONE SIDE	3 1/2"
F3-p	4 1/4"	3 5/8"	p = PARTIAL HEIGHT WALL (RE: ELEVATIONS)	-	1 LAYER OF 5/8", ONE SIDE	-
F6	6 5/8"	6"	-	-	1 LAYER OF 5/8", ONE SIDE	6"
F6-a	6 5/8"	6"	a = EXTEND GYP 6" MIN ABOVE CEILING	-	1 LAYER OF 5/8", ONE SIDE	6"



P = PARTITION TYPE

MARK	TOTAL THICKNESS	STUD SIZE	FIRE RATING (HR) OR EXTENTS	MODIFIER	GYP BOARD	INSULATION THICKNESS	UL #
P3	4 7/8"	3 5/8"	-	-	1 LAYER OF 5/8", BOTH SIDES	3 1/2"	
P3-a	4 7/8"	3 5/8"	a = EXTEND GYP 6" MIN ABOVE CEILING	-	1 LAYER OF 5/8", BOTH SIDES	3 1/2"	
P3-b	5 3/8"	3 5/8"	-	b = BALLISTIC RATED LEVEL III	1 LAYER OF 5/8", BOTH SIDES	3 1/2"	
P3-p	4 7/8"	3 5/8"	p = PARTIAL HEIGHT WALL (RE: ELEVATIONS)	-	1 LAYER OF 5/8", BOTH SIDES	-	
P3-v	5 1/2"	3 5/8"	-	v = 2 LAYERS GYPSUM BOARD ON FITNESS SIDE, 1 LAYER ON OTHER	2 LAYERS 5/8 ONE SIDE, 1 LAYER 5/8 ONE SIDE	3 1/2"	
P6	7 1/4"	6"	-	-	1 LAYER OF 5/8", BOTH SIDES	6"	
P6-a	7 1/4"	6"	a = EXTEND GYP 6" MIN ABOVE CEILING	-	1 LAYER OF 5/8", BOTH SIDES	6"	
P6-v	7 7/8"	6"	-	v = 2 LAYERS GYPSUM BOARD ON FITNESS SIDE, 1 LAYER ON OTHER	2 LAYERS 5/8 ONE SIDE, 1 LAYER 5/8 ONE SIDE	6"	
P8	9 1/4"	8"	-	-	1 LAYER OF 5/8", BOTH SIDES	6"	



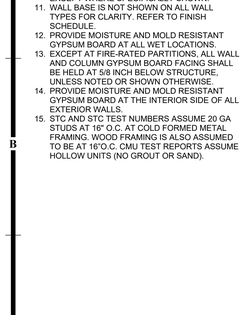
M = MASONRY PARTITION TYPE

MARK	TOTAL THICKNESS	FIRE RATING (HR) OR EXTENTS	MODIFIER	UL #
M8	7 5/8"	-	-	
M8-1	7 5/8"	1 HOUR	-	U905
M8-2	7 5/8"	2 HOUR	-	U905

MATERIAL KEYNOTES

04.20G	CONCRETE MASONRY UNIT (CMU) BOND BEAM GROUTED FULL
04.20J	CONCRETE MASONRY UNIT (CMU) DOUBLE BULL NOSE
04.20M	CONCRETE MASONRY UNIT, RE WALL SCHEDULE
05.41G	PRE-MANUFACTURED PARTIAL HEIGHT WALL METAL STUD SUPPORT (BOD: STEEL NETWORK MIDWALL)
06.10E	WOOD BLOCKING, AS REQUIRED
07.21P	BATT INSULATION, REF. WALL SCHEDULE
07.92E	JOINT SEALANT, EACH SIDE CONTINUOUS & ALL PENETRATIONS
07.92F	FIRE CAULK, IF NON-RATED, ACOUSTICAL CAULK IF STC IS REQUIRED
09.22X	METAL STUD @ 16-INCHES O.C., REF. SCHEDULE FOR SIZE
09.29A	INTERIOR 5/8-INCH GYP. BD. REF: WALL TYPES
09.29D	INTERIOR 5/8-INCH GYP. BD. REF: WALL SCHEDULE
09.29E	INTERIOR 5/8-INCH GYP. BD., EXTENDS TO UNDERSIDE OF ROOF OR FLOOR ASSEMBLY, REF: WALL SCHEDULE

PARTITION TYPE LEGEND:



GENERAL WALL TYPE NOTES:

1. RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. RE: LIFE SAFETY PLAN(S) FOR RATED WALL LOCATIONS.
3. RE: WALL TYPE DETAIL SHEET FOR TYPICAL WALL DETAILS, HEAD-OF-WALL DETAILS, AND ADDITIONAL WALL TYPE INFORMATION.
4. COORDINATE METAL STUD GAUGE WITH PRE-APPROVED EQUIPMENT ANCHORAGE. WHERE A DISCREPANCY OCCURS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
5. WHERE "ACOUSTIC SEALANT" IS INDICATED ON WALL TYPES: PROVIDE ACOUSTIC (SOUND) SEALANT ABOVE TOP TRACK, UNDER BOTTOM TRACK, AND AT ALL PENETRATIONS (BOTH SIDES).
6. WHERE "FIRE CAULK" IS INDICATED ON WALL TYPES: PROVIDE FIRE-RATED SEALANT ABOVE TOP TRACK, UNDER BOTTOM TRACK, AT ALL PENETRATIONS (BOTH SIDES), AND AS REQUIRED BY FIRE RATING UL NUMBER.
7. EXTEND FIRE-RATED WALL CONSTRUCTION BEHIND NON-RATED RECESSED OR BUILT-IN EQUIPMENT; SUCH AS FIRE EXTINGUISHER CABINETS (FEC), ELECTRICAL WATER COOLERS (EWC), ELECTRICAL PANELS, ETC., UNLESS NOTED OTHERWISE. REFER TO THE 5-SIDED BOX DETAIL ON THE WALL TYPE DETAILS SHEET.
8. PROVIDE AND INSTALL ALL STIFFENERS, BRACING, BACK-UP PLATES AND SUPPORTING BRACKETS REQUIRED FOR THE INSTALLATION OF ALL CASEWORK AND OF ALL FLOOR MOUNTED OR SUSPENDED MECHANICAL, ELECTRICAL OR LABORATORY EQUIPMENT.
9. WHERE HVAC OR OTHER MECHANICAL, ELECTRICAL AND PLUMBING ITEMS PENETRATE PARTITIONS: STUDS SHALL BE BRACED AND FRAMED TO STRUCTURE AS REQUIRED TO PROVIDE ADEQUATE SUPPORT. ALL PENETRATIONS THROUGH ACOUSTICAL AND FIRE RATED WALLS SHALL BE SEALED TO PROVIDE FIRE, SMOKE, AND/OR ACOUSTICAL ISOLATION OF SPACES WITH APPROPRIATE ACOUSTICAL/ FIRESTOP MATERIAL.
10. THERE SHALL BE NO BACK-TO-BACK ELECTRICAL, TELEPHONE, OR OTHER OUTLETS, EXCEPT WHERE SPECIFICALLY SHOWN.
11. WALL BASE IS NOT SHOWN ON ALL WALL TYPES FOR CLARITY. REFER TO FINISH SCHEDULE.
12. PROVIDE MOISTURE AND MOLD RESISTANT GYPSUM BOARD AT ALL WET LOCATIONS.
13. EXCEPT AT FIRE-RATED PARTITIONS, ALL WALL AND COLUMN GYPSUM BOARD FACING SHALL BE HELD AT 5/8 INCH BELOW STRUCTURE, UNLESS NOTED OR SHOWN OTHERWISE.
14. PROVIDE MOISTURE AND MOLD RESISTANT GYPSUM BOARD AT THE INTERIOR SIDE OF ALL EXTERIOR WALLS.
15. STC AND STC TEST NUMBERS ASSUME 20 GA STUDS AT 16" O.C. AT COLD FORMED METAL FRAMING. WOOD FRAMING IS ALSO ASSUMED TO BE AT 16"O.C. CMU TEST REPORTS ASSUME HOLLOW UNITS (NO GROUT OR SAND).

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As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
09/18/2025

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LEE'S SUMMIT JOINT OPERATIONS FACILITY

PACKAGE 2: CONSTRUCTION SET

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

REVISION DATES:

STATE OF MISSOURI
CHRISTOPHER KRUMREI
NUMBER A-2016012111
ARCHITECT

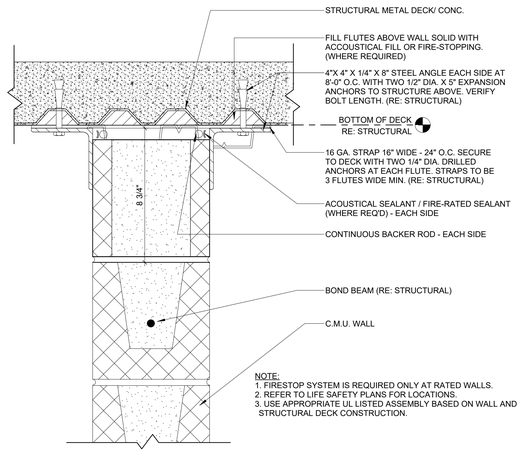
PROFESSIONAL SEAL

G-301

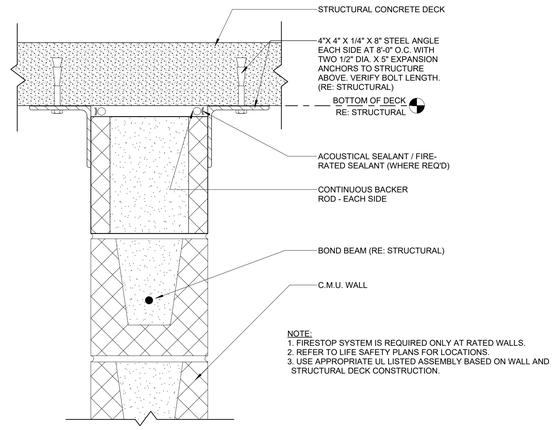
ISSUE DATE: NOVEMBER 1, 2024
HOEFER WELKER #: 138191

PARTITION TYPES

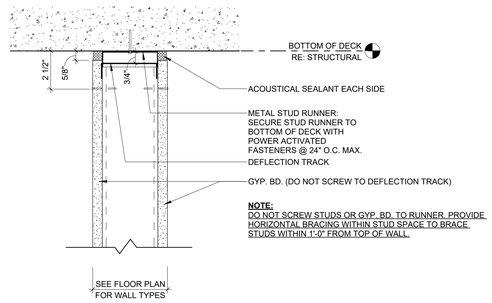
11/1/2024 1:35:35 PM Autodesk Docs://138191-LeesSummitJointOpsCtr/138191_A23_LeesSummitJointOpsCtr.rvt



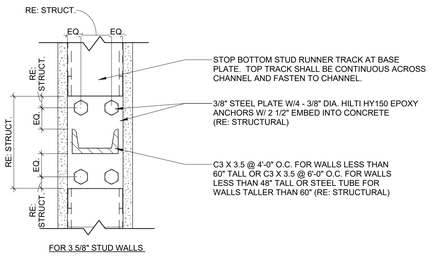
E8 TOP OF MASONRY WALL AT METAL DECK.
3" = 1'-0"



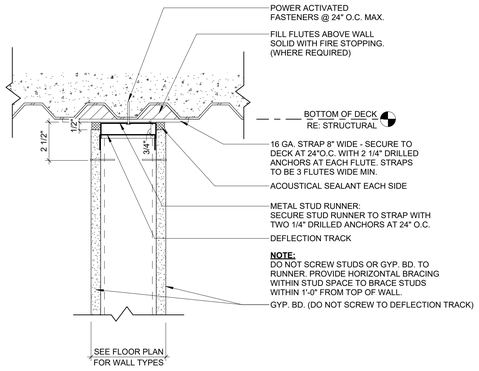
E5 TOP OF MASONRY WALL AT CONCRETE DECK
3" = 1'-0"



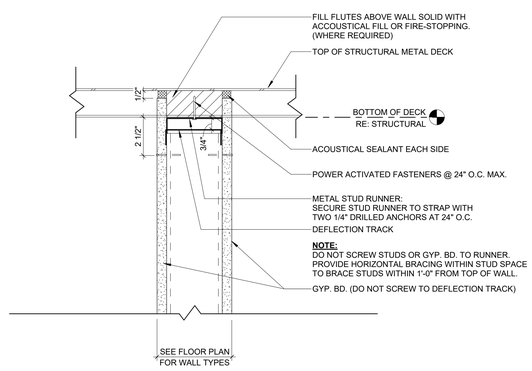
E1 HEAD OF STUD WALL AT CONC. DECK
3" = 1'-0"



A8 BASE PLATE & ANCHORAGE PLAN DTLS. @ WALL TYPE "F"
3" = 1'-0"



A5 TOP OF WALL - PARALLEL TO METAL DECK
3" = 1'-0"



A1 TOP OF WALL - PERP. TO METAL DECK
3" = 1'-0"

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LEE'S SUMMIT JOINT OPERATIONS FACILITY

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

PACKAGE 2: CONSTRUCTION SET

REVISION DATES:

STATE OF MISSOURI
CHRISTOPHER KRUMREI
2016018X
A-2016011211
ARCHITECT

PROFESSIONAL SEAL

G-310

ISSUE DATE: NOVEMBER 1, 2024
HOEFER WELKER #: 138191

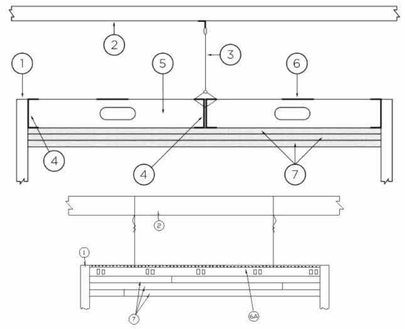
PARTITION TYPE DETAILS

Design No. **I504**

June 13, 2024

Ceiling Membrane Rating - 1 Hr.
Load Restriction - Limited to the Dead Weight of the Assembly
*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

1 Hour System



1. **Supporting Structure #1 —** Fire-resistance rated. Suitable point of attachment of C-Channels (Item 4).

2. **Supporting Structure #2 —** If necessary - Suitable point of attachment of hanger wire (Item 3).

3. **Hanger Wire —** If necessary - Min. 8 gauge steel wire, hung from holes punched in C-Channel (Item 4). Hanger wire spaced nominally 24 in. OC.

4. **C-Channels —** Used to support steel studs at both ends. Min. 3-5/8 in. deep with min. 1-1/4 in. legs and formed from min. No. 20 MSG galv. steel. Perimeter channels attached to a fire-resistance rated supporting structure (Item 1) with fasteners spaced not greater than 24 in. O.C. at both the top and bottom of the vertical leg. When used with Items 2 and 3, C-Channel secured back to back with 1/2 in. Type S screws spaced 24 in. OC along centerline of C-Channels. Where C-Channels form a butt joint, screws placed at both top and bottom of both sides of butt joint.

5. **Steel Studs —** Min. 3-5/8 in. wide with min. 1-5/8 in. legs containing folded back flanges and formed from min. No. 20 MSG galv. Steel. Studs to be cut 3/8 in. to 5/8 in. less than the clear span between the vertical legs of the perimeter channels. Studs spaced a max. 16 in. OC. At each end of the stud, the top and bottom legs shall be secured to the perimeter channel with one 3/8 in. long pan-head steel screw. Studs are used at each end of the horizontal barrier to terminate the assembly at the adjoining wall. These end studs shall be secured to the adjoining wall in the same manner as the perimeter channels (Item 4). Maximum unsupported length of studs not to exceed 8 ft. 1 in.

6. **Steel Strap —** Min 4 in. wide formed from min. No. 20 MSG galv. Steel. Secured perpendicular to the studs at the centerline of the span using one 3/8 in. long pan-head steel screw. Strips to overlap one full stud bay at splice locations. As an alternate to the steel strap, C-Channels (Item 4) may be substituted and installed in the same manner as the steel straps. If a continuous piece is not used, abut channels on each side of the centerline of the span and overlap one full stud bay.

6A. **Framing Members* —** As an alternate to items 3, 4, 5, and 6 - Main runners, cross tees, cross channels and wall angle as listed below:
a. **Main Runners —** Nom 10 or 12 ft long , 15/16 in. or 1-1/2 in. wide face, spaced 4 ft OC. Main runners suspended by min 12 SWG galv steel hanger wires spaced 24 in. OC, twist tied to supporting structure.

b. **Cross Tees —** Nom 4 ft long, 1-1/2 in. wide face, installed perpendicular to the main runners, spaced 16 in. OC. The cross tees or cross channels may be riveted or screw attached to the wall angle or channel to facilitate the ceiling installation.

c. **Cross Channels —** Nom 4 ft long, installed perpendicular to main runners, spaced 16 in. OC.

d. **Wall Angle or Channel —** — Painted or galv steel angle with 1 in. legs or channel with 1 in. legs, 1-9/16 in. deep attached to walls at perimeter of ceiling with fasteners 16 in. OC. To support steel framing member ends and for screw-attachment of the gypsum panel.
ARMSTRONG WORLD INDUSTRIES INC — Type DFR-8000.

7. **Gypsum Board* —** Three layers of nom. 5/8 in. thick gypsum board installed with long dimension perpendicular to the steel studs or Framing Members*. Base secured to studs and perimeter channels with 1 in. long Type S steel screws spaced max. 16 in. OC. Middle layer secured to the studs or Framing Members* and perimeter supports with 1-5/8 in. long Type S steel screws spaced max. 16 in. OC. Middle layer edge and end joints staggered a min. 16 in. from base layer joints. Face layer secured to the studs or Framing Members* and perimeter supports with 2-1/4 in. long Type S steel screws spaced max. 12 in. OC. Face layer edge and end joints staggered a min. 16 in. from middle layer joints.
NATIONAL GYPSUM CO — Type FSW, FSW-6, FSW-C, eXP-C

8. **Joint Tape and Compound —** Not Shown — (Optional, Not Required On Joints or Screw Heads) — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads: paper tape, nom. 2 in. wide, embedded in first layer of compound over all joints.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2024-06-13

Design No. U905

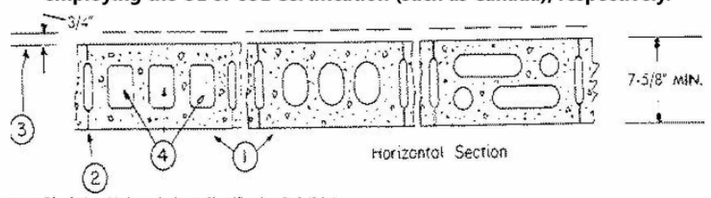
November 09, 2020

Bearing Wall Rating — 2 HR.

Nonbearing Wall Rating — 2 HR

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Concrete Blocks* —** Various designs. Classification D-2 (2 hr).
See **Concrete Blocks** category for list of eligible manufacturers.

2. **Mortar —** Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

3. **Portland Cement Stucco or Gypsum Plaster —** Add 1/2 hr to classification if used. Where combustible members are framed in wall, plaster or stucco must be applied on the face opposite framing to achieve a max. Classification of 1-1/2 hr. Attached to concrete blocks (Item 1).

4. **Loose Masonry Fill —** If all core spaces are filled with loose dry expanded slag, expanded clay or shale (Rotary Kiln Process), water repellant vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation add 2 hr to classification.

5. **Foamed Plastic* —** (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).
ATLAS ROOFING CORP — "EnergyShield Pro Wall Insulation", "EnergyShield Pro 2 Wall Insulation", EnergyShield CGF Pro and EnergyShield Ply Pro

CARLISLE COATINGS & WATERPROOFING INC — Type R2+ SHEATHE

DUPONT DE NEMOURS, INC. — Types Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax XARMOR ci Exterior Insulation, Thermax IH Insulation, Thermax Plus Liner Panel, Thermax Heavy Duty Plus (HDP), TUFF-R™ ci Insulation, Thermax Butler Stylwall Insulation Board and Thermax Morton Heavy Duty Insulation Board

FIRESTONE BUILDING PRODUCTS CO L L C — "Enverge™ CI Foil Exterior Wall Insulation" and "Enverge™ CI Glass Exterior Wall Insulation"

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — Types "Xci-Class A", "Xci Foil (Class A)", "Xci 286"

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — Types "TSX-8500", "ECOMAXci FR", "TSX-8510", "ECOMAX xi FR White", "ECOMAXci", "ECOMAXci FR Air Barrier", "Thermasheath-XP", "Thermasheath", "Durasheath", "Thermasheath-3", "Durasheath-3".

JOHNS MANVILLE — Type "AP Foil-Faced Foam Sheathing"

5A. **Building Units* —** As an alternate to Items 5, min. 1-in thick polyisocyanurate composite foamed plastic insulation boards, nom. 48 by 48 or 96 in.
HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — "Xci NB", "Xci Ply"

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — "Thermasheath-SI", "ECOBASEci", "ThermaBase-CI", "ECOMAXci FR Ply", "ECOMAXci Ply".

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2020-11-09

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As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
09/18/2025

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LEE'S SUMMIT JOINT OPERATIONS FACILITY
2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

FINAL DEVELOPMENT PLAN

REVISION DATES:
20 ASI 012 6/20/2025

PROFESSIONAL SEAL

G-311

ISSUE DATE: OCTOBER 16, 2024
HOEFER WELKER #: 138191

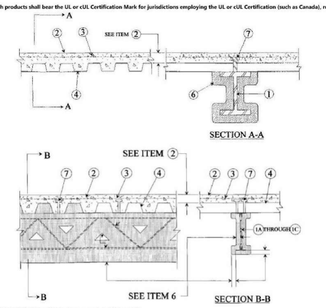
UL LISTINGS

Design No. D902

November 2, 2021

Restrained Assembly Ratings — 1, 1-1/2, 2 and 3 Hr.
Unrestrained Assembly Ratings — 0, 1, 1-1/2, 2 or 3 Hr. (See Items 4 & 6)
Unrestrained Beam Ratings — 1, 1-1/2, 2 and 3 Hr.
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide XKUV or XKUV7.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Beam —** W8X28, W8x24, W6x32 or W6x9, min size, see Items 6 through 6F.

1A. **Steel Joists —** (Not Shown) — As an alternate to Item 1 — Composite or non-composite min 8¼" or erin depth and weight shall be 8 in. and 4.9 lb/ft respectively. May be uncoated or provided with a shop coat of paint. Designed per S.J.I. specifications for a max design stress of 30, 000 psi (30 ksi). Welded or bolted to end supports. The top chords shall consist of two angles measuring 1-1/4 by 1-1/4 by 0.127 in. thick. Bottom chords shall consist of two round bars measuring 0.566 in. in diam. or two angles measuring 1 by 1 by 0.125 in. thick. Bearing plates shall consist of two angles measuring 1-1/2 by 2 by 0.188 in. thick and 5-11/16 in. long. Web members shall consist of 0.565 in. diam bars.

1B. **Steel Joists —** (Not Shown) — As an alternate to Item 1 — Composite or non-composite min 12K5 or min depth and weight shall be 12 in. and 7.1 lb/ft respectively. May be uncoated or provided with a shop coat of paint. Designed per S.J.I. specifications for a max design stress of 30, 000 psi (30 ksi). Welded or bolted to end supports. Top chords shall consist of two angles measuring 1-1/2 by 1-1/2 by 0.156 in. thick. Bottom chord shall consist of two round bars measuring 0.875 in. in diam. or two angles measuring 1 by 1 by 0.125 in. thick. Bearing plates shall consist of two angles measuring 2 by 2 by 0.192 in. thick and shall be min 4-15/16 in. long. The second web member at each end shall consist of 0.654 in. diam round bar. All remaining web members, including the end web members, shall consist of 0.774 in. diam round bars. Bridging per S.J.I. specifications is required when non composite joists are used.

1C. **Steel Joists —** (Not Shown) — As an alternate to Item 1 — Composite or non-composite min 12K5 or min depth and weight shall be 12 in. and 7.1 lb/ft respectively. May be uncoated or provided with a shop coat of paint. Designed per S.J.I. specifications for a max design stress of 30, 000 psi (30 ksi). Welded or bolted to end supports. Top chords shall consist of two angles measuring 1-1/2 by 1-1/2 by 0.156 in. thick. Bottom chord shall consist of two round bars measuring 0.875 in. in diam. or two mangles measuring 1 by 1 by 0.125 in. thick. The second web member at each end shall consist of 0.654 in. diam round bar. All remaining web members, including the end web members, shall consist of 0.774 in. diam round bars. Bridging per S.J.I. specifications is required when non composite joists are used.
Note: Additional beams or joists from the N series designs may be substituted for the listed beam item 1) or joist (item 1A) respectively. When joists are substituted, the restrained rating of the joist must be equal to or greater than the restrained rating of the assembly. Additional beam and joist substitution requirements are in the front of the Fire Resistance Directory - III. FLOOR-CEILINGS AND ROOF-CEILING, item 7. Steel Joist or Nr. BEAMS.

2. **Normal Weight or Light Weight Concrete —** Normal weight concrete, carbonate or siliceous aggregate, 3500 psi compressive strength, vibrated. Light weight concrete, expanded shale or slate aggregate by rotary-kiln method or expanded clay aggregate by rotary-kiln or sintered-grate method, or pelletized expanded blast furnace slag aggregate, 3000 psi compressive strength, vibrated, 4 to 7 per cent entrained air.

Restrained Assembly Rating Hr	Concrete (Type)	Concrete Unit Weight pcf	Concrete Thkns In.
1	Normal Weight	147-153	3-1/2
1-1/2	Normal Weight	147-153	4
2	Normal Weight	147-153	4-1/2
3	Normal Weight	147-153	5-1/4
1	Light Weight	107-113	2-1/2
1	Light Weight	107-120	2-5/8
1-1/2	Light Weight	107-113	3
2	Light Weight	107-113	3-1/4
2	Light Weight	107-116	3-1/4*
2	Light Weight	114-120	3-1/2
3	Light Weight	107-113	4-3/16
3	Light Weight	114-120	4-7/16

* With 2 and 3 in. deep steel floor units only.

3. **Welded Wire Fabric —** 6x6 - W1.4xW1.4.

3A. **Negative Reinforcement —** (Optional, Not Shown) Used in lieu of Item 3 and with Items 3B or 3C. For floor spans with concrete cast continuous over the supporting beams. Deformed bars designed to resist the support moments of the concrete slab in accordance with the latest ACI Building Code Specifications.

3B. **Fiber Reinforcement ** —** (Not Shown) — Required with Item 3A. Engineered synthetic fibers added to concrete mix to control shrinkage cracks in concrete. Fibers added to concrete mix at rate of 1 lb of fiber for each cubic yard of concrete.
PROPEX OPERATING COMPANY L L C — Fibermesh 150 and Fibermesh 300.

3C. **Fiber Reinforcement ** —** (Not Shown) — Required with Item 3A. Any fiber reinforcement bearing the UL Classification Marking for Fire Resistance, Classified for use in lieu of welded wire fabric.
See **Fiber Reinforcement** (CBX2) Category for names of manufacturers.

4. **Steel Floor and Form Units* —** Composite or non-composite, 1-1/2, 1-5/8, 2 or 3 in. deep galv units or 4-1/2 in. deep non-composite galv units. Fluted units may be phos/pkd. Min gauges are 22 MSG for fluted and 20/20 for cellular and partial cellular units. The following combinations of units may be used:
(1) All 24, 26, 28 or 36 in. wide cellular or partial cellular.

(2) All fluted.

(3) One or two in. deep, 12 in. wide, 18/18 MSG min cellular alternating with 3 in. deep fluted or other cellular.

(4) Any listed of fluted and 24, 26, 28 or 36 in. wide cellular or partial cellular.

(5) Corrugated, nom 1-5/16 or 2 in. deep, 39 in. wide, 24 MSG min galv units with shear wires factory welded to deck corrugations. Welded to supports 12 in. OC through welding washers. For shear wire spacing of 8 in. or less the steel deck stress shall not exceed 20 KSI. For shear wire spacing greater than 8 in. OC but less than or equal to 12 in. OC steel deck stress shall not exceed 12 KSI.

ASC STEEL DECK, DIV OF ASC PROFILES L L C — 32 in. wide Types NH-32, NMN-32, NHP-32; 36 in. wide, Types BHI-36, BHN-36, BHN-35-1/4, BHF-36, BHP-36A, ZMM-36, ZMMS-36, ZMHF-36, ZMMF-36A, XKKH-36, XMMF-36, XMHF-36A, XMN-36, XMHF-36, XMP-36, DGI39-36, DGT39F-36. All units may be galvanized or Prime Shield. Non-cellular decks may be vented designated with a "V" suffix to the product name. Cellular deck top and bottom sections may be riveted together (designated with "FS") vs. arc spot welded, "-F".

CANAM GROUP INC — 24 in. wide Type P-2432 composite or 36 in. wide Type P-3623, P-3606, P-3615 and 24 in wide Type P-2432 composite, Type P-3606 and P-3615 non-composite; 24 or 36 in. wide Type 3 in. LOK-Floor; 36 in. wide Types 1.5B, 1.5BI, 1.5BL and 1.5BL.

CANAM STEEL CORP — 24 in. wide Type P-2432 composite or 36 in. wide Type P-3623, P-3606, P-3615 and 24 in wide Type P-2432 composite, Type P-3606 and P-3615 non composite

CANAM STEEL CORP — 12 or 24 in. wide, Types 1-1/2, 2, or 3 in. LOK-Floor and LOK-Floor Cell; 36 in. wide, Types 2 or 3 in. LOK-Floor and LOK-Floor Cell; 24, 30 or 36 in. wide, Type 1-1/2 in. B-LOK and B-LOK Cell; 24 in. wide, Types N-LOK and N-LOK Cell

CENTRIA, A DIVISION OF NCI GROUP, INC — QL Types, 24 in. wide, 3 or 3 inverted, UKX, 21 or 21 inverted, 2 in. 99, 121, AKK, NKX. TKK 24 or 30 in. wide GKX, GKXH, GKX-A, 36 in. wide 2 in. 99, AKK, WXX; 12 in. wide NKT, TKC; 12 in. wide non-composite Sec 12. Side joints of 99, 121, TKC, TKX, WXX may be welded together 60 in. OC. Side joints of 99, AKK, WKX, GKX, GKX-A, TKX may be fastened together with min 1 in. long No. 10x14 self-drilling, self-tapping steel screws 36 in. OC.

CHEA TEN CONSTRUCTION MATERIAL CO LTD — 24 or 36 in. wide Mac-Lok 3 24 in. wide CFD-3

DECK WEST INC — 36 in. wide Type B-DW, Inverted B-DW, BA-DW, Inverted BA-DW, 2-DW or 3-DW. Side joints of Type 2-DW and 3-DW may be fastened together with min 1 in. long No. 12 x 14 self-drilling, self-tapping steel screws 36 in. OC

DESIGN ASSISTANCE CONSTRUCTION SYSTEMS INC — 36 in. wide Type DACS1.5CD, or 24 in. wide Type DACS2.0CD, or DACS3.0CD

EPIC METALS CORP — 24 in. wide Types EC150, EC150 Inverted, EC300, EC366, ECP150, ECP300, ECP396, ECA; 30 in. wide Types ECB150, ECB9150; 36 in. wide Types ECT56. EC266, ECP266

KAM INDUSTRIES LTD, DBA CORDECK — 24 in. wide, Types 2 or 3 in. WDR

MARLYN STEEL DECKS INC — Type 1.5 CF, 2.0 CF or 3.0 CF

NEW MILLENNIUM BUILDING SYSTEMS L L C — 24 or 36 in. wide Types 2.0CD, 3.0CD, 2.0CTD, 3.0CTD, 3.0CFDES; 24, 30 or 36 in. wide Types 1.5CD, 1.5CDF, 1.5CFD. Fluted units may be phos/painted or galvanized.

ROOF DECK INC — 36 in. wide Types LOK-1-1/2, LOK-1-5/8; 24 in. wide Types LOK-2, LOK-3

STEEL MASTERS INTERNATIONAL DEPENDABLE STEEL — 36 in. wide Types 2WH 36, 3WH-36. Units may be phos/painted or galvanized.

VALLEY JOIST-DECK — 24 or 36 in. wide Types WVC 1-1/2 or WVC 2

VERCO DECKING INC - A NUCOR CO — FORMLOK® deck types PLB, B, BR, PLN(I), N(I, P)LN, N, FLW2, W2, FLW(I), W3. Units are min 24 in. wide and may be galvanized, phos/ptd., or mill finish. Units may be cellular or acoustical cellular, with the suffix "CD" or "CD-AC" added to the product name, respectively. All non-cellular deck may be vented or non-vented. 12 in. wide PLW2, W2, PLW3 or W3 units may be blended with 24 or 36 in. wide PLW2, W2, PLW3 or W3 units, respectively; or Types PLN(I)-CD, N(I-CD, PLN(I, N3.

VULCRAFT, DIV OF NUCOR CORP — 24, 30 or 36 in. wide Types 1.5VL, 1.5VLI, 1.5PLVLI, 1.5VLP, 1.5 VLR, 1.5PLVLP; 24 or 36 in. wide Types 1.5VLPA, 1.5PLVLPA, 2VLI, 2.0PLVLI, 2VLI, 3VLI, 3.0PLVLI, 3VLI, 2VLP, 2.0PLVLP, 3VLP, 3.0PLVLP, 2VLPA, 2.0PLVLPA, 3VLPA, 3.0PLVLPA. Types 1.5VL, 1.5VLI, 1.5PLVLI, 1.5 VLR, 1.5VLPA, 1.5PLVLPA, 2VLI, 2.0PLVLI, 2VLI, 3VLI, 3.0PLVLI, 3VLI units may be phos/ptd. 24 or 36 in. wide Types 2VLI, 3VLI units + + may be used for max 2 hr Restrained Assembly Rating. 36 in. wide Types 1.5 SB. 1.5 SBI, 24 or 36 in wide Types 2.0 SB, 3.0 SB, 36 in. wide Type High Strength 1.5 SBI. 36 in. wide Type High Strength 1.5 SBN. Units may be phos/ptd

Spacing of welds attaching units to supports shall be 12 in. OC for 32, 24, 36 in. wide units, four welds per sheet for 30 in. wide units; 6 in. OC for 18 in. wide and Sec. 32 units. Unless specified otherwise for specific units types, adjacent units button-punched or welded together 36 in. OC along side joints. For **3 Hr Rating**, units with overlapping type side joints welded together 24 in. OC max.

When a superimposed load of 250 PSF is desired the spacing of welds or button-punches shall not exceed 24 in. OC along side joints.

+ + Side joints of Types 2VLI or 3VLI units may be fastened together with No. 8-3/4 in. long self-drilling 5ek screws driven diagonally from the top side through the joint of the units at 36 in. O. C. max.

Alternate Construction — Non-composite units of the same type listed above may be used provided allowable loading is calculated on the basis of non-composite design.

The Unrestrained Assembly Rating is equal to the Unrestrained Beam Rating (See Item 6) for a max 3 Hr and is limited to the following units and limitations:

(a) 1-1/2, 2 and 3 in. deep, 24 or 36 in. wide, 22 MSG or thicker fluted with clear spans not more than 7 ft, 8 in.

(b) 1-1/2, 2 and 3 in. deep, 24 or 36 in. wide, 20 MSG or thicker fluted with clear spans not more than 8 ft, 8 in.

(c) 1-1/2 and 2 in. deep, 24 or 36 in. wide, 16 MSG or thicker fluted and 18/18 MSG or thicker cellular with clear spans not more than 9 ft, 11 in.

(d) 3 in. deep, 36 in. wide, 18 MSG or thicker fluted and 24 in. wide, 20/18 MSG or thicker cellular with clear spans not more than 13 ft, 2 in.
For assemblies utilizing 3-1/4 in. light weight concrete topping with a max Restrained Assembly Rating of 2 Hr, the Unrestrained Assembly Rating is equal to the Unrestrained Beam Rating (See Item 6) and is limited to the following floor units and spans:

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(a) 1-1/2, 2 and 3 in. deep, 24 or 36 in. wide, 22 MSG fluted and 20/20 MSG cellular with clear spans not more than 9 ft, 6 in.

(b) 2 and 3 in. deep, 24 or 36 in. wide, 20 MSG fluted and 20/20 MSG cellular with clear spans not more than 10 ft, 0 in.

(c) 3 in. deep, 24 in. wide, 20 MSG fluted and 20/20 MSG cellular with clear spans not more than 13 ft, 2 in.

4A. **Steel Floor and Form Units* —** As an alternate to Item 4. Nom 8 or 9 in. deep composite, galv steel units, Min thickness 0.0375 inch (20 MSG). Side joints of adjacent units fully overlapping, fastened together by using 1-1/4 in. long self-drilling, self-tapping steel screws driven through Shear-Bond Clips (not shown) at 13-3/4 in. OC. Steel end closures flashings (not shown) made of min 0.036 inch thk (16 MSG) galv steel, fixed to the steel work before decking is placed.
In addition to the Steel Floor and Form Units, the following components are required:

(a) Welded Wire Fabric — 6 X 6 - Min wire thickness W2.9 X W2.9 slab reinforcement. As an alternate, max 4 bars spaced 12-in. OC in both directions shall be used. When re-bars are used, the steel deck stab thickness shall be increased a minimum 5/16 in.

(b) Rib Reinforcement —Min. #4 rebar. Min concrete cover below the steel reinforcement shall be 1-9/16 in. Reinforcement support chairs spaced at max 41-1/2 inches OC.

The flute areas above the beam/joist are to be : (1) filled with concrete, (2) filled with Spray-Applied Fire Resistive Material or (3) the beam/joist coated with Spray-Applied Fire Resistive Material installed as described in the design to thickness required when all cellular Steel Floor and Form Units are used.

See Design No. D988 for a typical illustration of the components. Consult the deck manufacturer for comprehensive load tables and design parameters referencing UL Design D989.

BAILEY METAL PRODUCTS LTD — Type COMSLAB™ 210 and COMSLAB™ 225, Steel End Closure Flashing

5. **Joist Cover —** (Use with fluted units optional — Not Shown) — 2 in. wide cloth adhesive tape applied following the contour of the units.

6. **Spray-Applied Fire Resistive Materials* —** Applied by spraying with water to the final thicknesses shown below. When fluted steel deck is used and the fire protection thickness selected is based on all fluted deck, the area between the steel deck and the top flange of the steel beam shall be filled. When fluted steel deck is used and the steel beam is sprayed with the thicknesses applicable to cellular or blended units, the area between the steel deck and the top flange of the steel beam shall be plugged. Beam surfaces must be clean and free of dirt, loose scale, and oil. Min average density of 13 pcf with min. individual density of 11 pcf for Types II, II HS, or DC/R. Min average and min individual densities of 22 pcf and 19 pcf, respectively, for type HP. For method of density determination, refer to Design Information Section. The thickness of the Spray-Applied Fire Resistive Materials on the Structural Members (Item 1, 1A, or 1B) shall be as follows:

Restrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Concrete Type	Min Thkns Spray Applied Resistive Mtl, In: W6x9 When Deck Is All Fluted	W6x9 When Deck Is Blend or All Cellular	W8x28 When Deck Is All Fluted	W8x28 When Deck Is Blend or All Cellular	Joist Item 1A When Deck Is Fluted Cellular or Blend	Joist Item 1B When Deck Is Fluted Cellular or Blend
1	1	NW	9/16,15/16*	9/16, 1*	3/8,5/8*	3/8,11/16*	1+	—
1-1/2	1	NW	9/16,15/16*	9/16, 1*	3/8,5/8*	3/8,11/16*	1-9/16	—
2	1	NW	9/16,15/16*	9/16, 1*	3/8,5/8*	3/8,11/16*	2-1/16	—
2	2	NW	1-1/8	1-3/16	3/4	13/16	2-1/16	—
2	3	NW	1-3/4	1-7/8	1-3/16	1-5/16	—	3-1/4
3	1-1/2	NW	3/4	3/4	1/2	1/2	—	3-1/4
3	2	NW	1-1/8	1-3/16	3/4	13/16	—	3-1/4
3	3	NW	1-3/4	1-7/8	1-3/16	1-5/16	—	3-1/4
1	1	LW	9/16,15/16*	5/8, 1*	3/8,5/8*	7/16,11/16*	1-1/8+	—
1-1/2	1	LW	9/16,15/16*	5/8, 1*	3/8,5/8*	7/16,11/16*	1-3/4	—
2	1	LW	9/16,15/16*	5/8, 1*	3/8,5/8*	7/16,11/16*	2-1/4	—
2	2	LW	1-7/16	1-7/16	1	1	2-1/4	—
2	3	LW	2-1/4	2-5/16	1-9/16	1-5/8	—	3-1/4
3	1-1/2	LW	15/16	1	5/8	11/16	—	3-1/4
3	2	LW	1-7/16	1-7/16	1	1	—	3-1/4
3	3	LW	2-1/4	2-5/16	1-9/16	1-5/8	—	3-1/4

* This thickness applies when optional Item 12 or 13 are used over 3-1/4 in. light weight concrete topping.
** This thickness applies when optional Item 12 or 13 are used over 3-1/4 in. light weight concrete topping.
+ When bottom chords consist of 1 by 1 by 0.125 in. thick steel angles, the thickness of spray applied fire resistive material shall be increased by 1/4 in. on the bottom chord only.

ISOLATEK INTERNATIONAL — Type D-C/F, HF, II or Type II HS. Investigated for exterior use. Type EBS or Type K adhesive/surface sealer optional.

6A. **Spray-Applied Fire Resistive Materials* —** Alternate to Item 6. See table below for appropriate thicknesses. When fluted steel deck is used and the fire protection thickness selected is based on all fluted deck, the area between the steel deck and the top flange of the steel beam shall be filled. When fluted steel deck is used and the steel beam is sprayed with the thicknesses applicable to cellular or blended units, the area between the steel deck and the top flange of the steel beam shall be plugged. Prepared by mixing with water and spray-applied in one or more coats to beam surfaces which must be clean and free of dirt, loose scale and oil. Min average density of 17.5 pcf with min individual value of 17.0 pcf. For method of density determination, see Design Information Section, Sprayed Material.

Restrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Min Thkns Applied Resistive Mtl, In: W6x9 When Deck Is All Fluted	W6x9 When Deck Is Blend or All Cellular	W8x28 When Deck Is All Fluted	W8x28 When Deck Is Blend or All Cellular
1, 1-1/2, 2	1	1/2, 5/8*	1/2, 5/8*	5/16, 7/16*	5/16, 7/16*
2	2	1	1-1/16	11/16	11/16
2	3	1-9/16	1-7/8	1-1/16	1-5/16
3	1-1/2	3/4	13/16	1/2	9/16
3	2	1	1-1/16	11/16	11/16
3	3	1-9/16	1-7/8	1-1/16	1-5/16

* This thickness applies when optional Item 12, 13 are used over 3-1/4 in. light weight concrete topping.

ISOLATEK INTERNATIONAL — Type 280

6B. **Spray-Applied Fire Resistive Materials* —** Alternate to Items 6 and 6A. Prepared by mixing with water. Spray-applied in one or more coats to beam surfaces to a min final thickness as shown in the tables below. Beam surfaces must be clean and free of dirt, loose scale and oil. When fluted steel deck is used and the fire protection thickness selected is based on all fluted deck, the area between the steel deck and the top flange of the steel beam shall be filled. When fluted steel deck is used and the steel beam is sprayed with the thicknesses applicable to cellular or blended units, the area between the steel deck and the top flange of the steel beam shall be plugged. Min average and min individual density of 15 pcf and 14 pcf respectively for Types 300, 300AC, 300 ES, 300 HS, 300 N, 3000, 3000ES, and 5B. For Types 400, 400 AC and 400 ES min average and min individual density of 22 pcf and 19 pcf respectively. Min avg density of 44 pcf with min ind value of 40 pcf for Types M-II and 5G. Min avg density of 47 pcf, with min individual value of 43 pcf for Type M-II/F. The thickness of the material on the Structural Members (Item 1 and 1C) shall be as follows:

Restrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Min Thkns Spray Applied Resistive Mtl, In: W6x9 When Deck Is All Fluted	W6x9 When Deck Is Blend or All Cellular	W8x28 When Deck Is All Fluted	W8x28 When Deck Is Blend or All Cellular	Joist (Item 1C) When Deck Is Fluted Cellular or Blend
1	1	1/2 , 5/8*	1/2 , 5/8*	5/16, 7/16*	5/16, 7/16*	9/16+
1-1/2	1	1/2 , 5/8*	1/2 , 5/8*	5/16, 7/16*	5/16, 7/16*	1
2	1	1/2 , 5/8*	1/2 , 5/8*	5/16, 7/16*	5/16, 7/16*	1-3/8
2	2	1	1-3/16	11/16	13/16	1-3/8
2	3	1-9/16	1-7/8	1-1/16	1-5/16	2-1/4
3	1-1/2	3/4	13/16	1/2	9/16	2-1/4
3	2	1	1-3/16	11/16	13/16	2-1/4
3	3	1-9/16	1-7/8	1-1/16	1-5/16	2-1/4

* This thickness applies when optional Item 12 or 13 are used over 3-1/4 in. light weight concrete topping.
+ When bottom chords consist of 1 in. by 1 in. by 0.125 in. thick steel angles, the thickness of spray-applied fire resistive material shall be increased by 1/4 in. on the bottom chord only.

BERLIN CO LTD — Types 300, 300ES, 300N, 5B, or 400 Type M-II, 5G and M-II/F

GREENTECH ASIA PACIFIC SDN BDH — Types 100, 300ES, 300HS, or 400; Type M-II, or M-II/F

GREENTECH THERMAL INSULATION PRODUCTS MFG CO L L C — Types 300, 300AC, 400, or 400AC; Type M-II, 7G and M-II/F

ISOLATEK INTERNATIONAL — Types 300, 300AC 300ES, 300HS, 300N, 5B, 400, 400AC, 400ES, 3000 or 3000ES; Type M-II, 5G and M-II/F

NEWKEM PRODUCTS CORP — Types 300, 300ES, 300N, 400, or 5B; Type M-II, 5G and M-II/F

6C. **Intumescent Fire-resistive Materials* —** As an alternate to Items 6 through 6B. For use with fluted steel floor and form units only. Min. size WBx24 or W16x12 beams shall be primed with a phenolic modified alkyd primer, a metal alkyl primer, an acrylic primer or an epoxy primer at a nominal thickness of 2 mil. Coating spray or brush applied in accordance with the manufacturer's instructions at the min dry thickness as shown in the table below. The thickness shown below includes the primer thickness. Flutes above beam to be completely filled with minimum 6 pcf mineral wool insulation, or the top flange of the beam to be protected with the same thickness of coating as required on the beam.

Minimum Dry Thickness mils	Minimum Dry Thickness mm	Beam Size	Unrestrained Beam Rating Hr	Restrained Assembly Rating Hr
53	1.34	WBx24	1	2
95	2.41	WBx24	1-1/2	3
73	1.83	W6x12	1	2
123	3.10	W6x12	1-1/2	3

BERLIN CO LTD — Type W9 3. Investigated for Interior General Purpose. Type W8 4. Investigated for Interior General Purpose. Type W9A. Investigated for Exterior Use with top coat as described in Item 6E

GREENTECH ASIA PACIFIC SDN BDH — Type W8 3. Investigated for Interior General Purpose. Type W9 4. Investigated for Interior General Purpose. Type W9A. Investigated for Exterior Use with top coat as described in Item 6E

GREENTECH THERMAL INSULATION PRODUCTS MFG CO L L C — Type W8 3. Investigated for Interior General Purpose. Type W8 4. Investigated for Interior General Purpose. Type W9A. Investigated for Exterior Use with top coat as described in Item 6E

ISOLATEK INTERNATIONAL — Type Spray9 Fm-W8 3 and Type W8 3. Investigated for Interior General Purpose. Type Spray9 Fm-W8 4 and Type W8 4. Investigated for Interior General Purpose. Type Spray9 Fm-W8 4 and Type W8A4. Investigated for Exterior Use with top coat as described in Item 6E

NEWKEM PRODUCTS CORP — Type W8 3. Investigated for Interior General Purpose. Type W8 4. Investigated for Interior General Purpose. Type W9A. Investigated for Exterior Use with top coat as described in Item 6E

6D. **Intumescent Fire-resistive Materials* —** As an alternate to Items 6 through 6C. For use with normal weight concrete. Min. size WBx28 beams shall be primed with a phenolic modified alkyd primer a metal alkyl primer, an acrylic primer or an epoxy primer at a nominal thickness of 2 mil. Coating spray or brush applied in accordance with the manufacturer's instructions at the min dry thickness as shown in the table below. The thickness shown below includes the primer thickness. The top surface of the top flange where fluted units are used must be protected with the coating material at the same min dry thickness at a min distance of 1 in. (25 mm) inward from the flange tip on both sides of the beam. Mineral wool insulation optional above top surface of the beam.

Minimum Dry Thickness mils	Minimum Dry Thickness mm	Steel Floor Units	Unrestrained Beam Rating Hr	Restrained Assembly Rating Hr
103	2.62	Fluted or Cellular	1-1/2	2
179	4.55	Cellular	1-1/2	3
341	8.67	Cellular	2	3

BERLIN CO LTD — Type W9 3. Investigated for Interior General Purpose. Type W8 4. Investigated for Interior General Purpose. Type W9 4. Investigated for Exterior Use with top coat as described in Item 6E

GREENTECH ASIA PACIFIC SDN BDH — Type W8 3. Investigated for Interior General Purpose. Type W9 4. Investigated for Interior General Purpose. Type W8 4. Investigated for Exterior Use with top coat as described in Item 6E

GREENTECH THERMAL INSULATION PRODUCTS MFG CO L L C — Type W8 3. Investigated for Interior General Purpose. Type W8 4. Investigated for Interior General Purpose. Type W9 4. Investigated for Exterior Use with top coat as described in Item 6E

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ISOLATEK INTERNATIONAL — Type Spray9 Fm-W8 3 and Type W8 3. Investigated for Interior General Purpose. Type Spray9 Fm-W8 4 and Type W8 4. Investigated for Interior General Purpose. Type Spray9 Fm-W8 4 and Type W8A 4. Investigated for Exterior Use with top coat as described in Item 6E

NEWKEM PRODUCTS CORP — Type W8 3. Investigated for Interior General Purpose. Type W8 4. Investigated for Interior General Purpose. Type W9A4. Investigated for Exterior Use with top coat as described in Item 6E

6E. **Top Coat —** (Not Shown) — Type THERMEC 740 required for Exterior Use with Type Spray9 Fm W85, applied at a minimum dry thickness of 7 mils over the intumescent material.
See Classification information in the **Mastic and Intumescent Coating** (CCNZ) category, Isolatek International, for mixing requirements.

6F. **Intumescent Fire-resistive Materials* —** As an alternate to Items 6 through 6D. For use with normal weight or light weight concrete and fluted steel floor and form units only. Min size WBx24 beams shall be primed with a phenolic modified alkyd primer at a thickness of 2 mils or a epoxy primer at a nominal thickness of 1 mil. Coating spray or brush applied in accordance with the manufacturer's instructions at the thicknesses shown below. The thickness includes the thickness of primer. The top surface of the top flange where fluted units are used must be protected with the coating material at the same min dry thickness or filled with nominal 4 pcf mineral wool.

Minimum Dry Thickness mils	Minimum Dry Thickness mm	Beam Size	Unrestrained Beam Rating Hr	Restrained Assembly Rating Hr
35	0.88	WBx24	1	2
66	1.68	WBx24	1-1/2	3

GREENTECH ASIA PACIFIC SDN BDH — Type W8-S. Investigated for Interior General Purpose. Investigated for Exterior Use with top coat as described in Item 6G.

GREENTECH THERMAL INSULATION PRODUCTS MFG CO L L C — Type W8-S. Investigated for Interior General Purpose. Investigated for Exterior Use with top coat as described in Item 6G.

ISOLATEK INTERNATIONAL — Type W8-S. Investigated for Interior General Purpose. Investigated for Exterior Use with top coat as described in Item 6G.

NEWKEM PRODUCTS CORP — Type W8 S. Investigated for Interior Conditioned Space and Interior General Purpose. Investigated for Exterior Use with top coat as described in Item 6G.

6G. **Top Coat —** (Not Shown) — Type THERMEC 740 required for Exterior Use with Type Spray9 Fm W85, applied at a minimum dry thickness of 7 mils over the intumescent material.
See Classification information in the **Mastic and Intumescent Coating** (CCNZ) category, Isolatek International, for mixing requirements.

6H. **Sprayed Fiber Insulation* —** (Optional, Not Shown) — Spray applied fiber insulation, Classified for Surface Burning Characteristics (BNST), having a maximum applied density of 3.5 pcf, applied over Spray-Applied Fire Resistive Material (Item 6) on both steel floor and form units (Item 4) and supports (Item 1). Sprayed fiber insulation may be over Spray-Applied Fire Resistive Material (Item 6) according to the following tables:

Allowable Spray-Applied Fiber Insulation Thickness Over Beam

Installed SFRM Thickness (in.) on Beam	SFRM Density (pcf)						
	13	15	17.5	22	22 (Type HP)	44	47
5/16	5	5	5	5	5	5	5
3/8	5	5	5	5	5	5	5
7/16	5	5	5	5	5	5	5
1/2	5	5	5	5	5	5	5
9/16	5	5	5	5	5	5	5
5/8	5	5	5	5	5	5	5
11/16	5	5	5	5	5	5	5
3/4	5	5	5	5	5	5	5
13/16	5	5	5	5	5	5	5
15/16	5	5	5	5	5	5	5
1	5	4-11/16	5	5	5	5	5
1-1/16	5	4-3/8	5	5	5	5	5
1-1/8	5	4	4-11/16	5	5	5	5
1-3/16	5	3 11/16	4- 5/16	5	5	5	5
1-5/16	4-5/8	3	3-1/2	4-7/16	5	5	5
1-7/16	4-1/16	2-3/8	2-3/4	3-7/16	5	5	5
1-9/16	3-1/2	1-11/16	1-15/16	2-7/16	5	4-15/16	5
1-5/8	3-3/16	1-5/16	1-9/16	1-15/16	5	3-15/16	4-3/16
1-3/4	2-5/8	11/16	13/16	1	4-7/16	1-15/16	2-1/8
1-7/8	2-1/16	0	0	0	3-7/16	0	0
2-1/4	5/16	0	0	0	1/2	0	0
2-5/16	0	0	0	0	0	0	0

Allowable Spray-Applied Fiber Insulation Thickness Over Joist

Installed SFRM Thickness (in.) on Joist	SFRM Density (pcf)					
	13	15	22	22 (Type HP)	44	47
9/16	5	5	5	5	5	5
13/16	5	5	5	5	5	5
1	5	5	5	5	5	5
1-3/8	5	4-13/16	5	5	5	5
1-1/4	5	4-5/16	5	5	5	5
1-3/8	5	3-3/4	5	5	5	5
1-9/16	5	2-15/16	4-5/16	5	5	5
1-3/4	5	2-1/8	3-1/8	5	5	5
2-1/16	5	13/16	1-3/16	5	5	5
2-1/4	5	0	0	5	5	5
3-1/4	0	0	0	0	0	0

INTERNATIONAL CELLULOSE CORP — Type K13, UR8-K, or Sonospray FC

6I. **Sprayed Fiber Insulation* —** (Optional, Not Shown) — Spray applied fiber insulation, Classified for Noncombustible Building Materials (BKOH), having a maximum applied density of 3.5 pcf, applied over Spray-Applied Fire Resistive Material (Item 6) on both steel floor and form units (Item 4) and supports (Item 1). Sprayed Fiber insulation may be over Spray-Applied Fire Resistive Material (Item 6) according to the following tables:

**Allowable Spray-

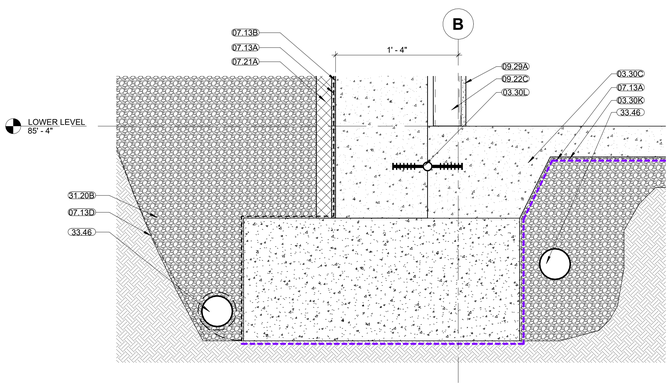
RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
09/18/2025

ALTERNATE #1 DOOR SCHEDULE

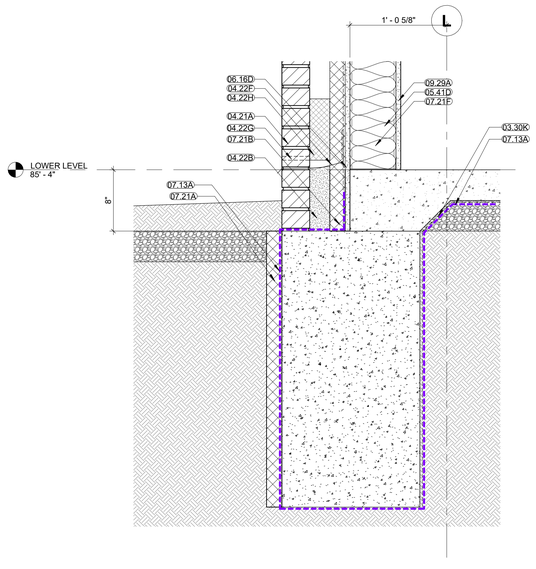
DOOR #	ROOM: NAME	WIDTH	HEIGHT	DOOR MATERIAL	DOOR TYPE	FRAME MATERIAL	FRAME TYPE	FIRE RATING	AAOS Project HW Set	HEAD	JAMB	REMARKS
020	WATER	3' - 0"	7' - 0"	HM	F	HM	F1		20.0	J12 / A-601	J10 / A-601	
021	ELEC.	3' - 0"	7' - 0"	HM	F	HM	F1		24.0	J12 / A-601	J10 / A-601	
022	MEDIA	3' - 0"	7' - 0"	WD	F	HM	F1		17.0	J12 / A-601	J10 / A-601	
023	COMM STOR.	3' - 0"	7' - 0"	WD	F	HM	F1		17.0	J12 / A-601	J10 / A-601	
039B	GENERAL STORAGE	3' - 0"	7' - 0"	HM	F	HM	F1		18.0	J12 / A-601	J10 / A-601	
039C	GENERAL STORAGE	3' - 0"	7' - 0"	HM	F	HM	F1		18.0	J12 / A-601	J10 / A-601	
040	ELEC.	3' - 0"	7' - 0"	HM	F	HM	F1		22.0	J12 / A-601	J10 / A-601	
042A	LOADING DOCK	3' - 0"	8' - 0"	HM	DF	HM	F2		25.0	J9 / A-601	J7 / A-601	
048	988	3' - 0"	7' - 0"	WD	F	HM	F1		27.0	J12 / A-601	J10 / A-601	
106	STORAGE	3' - 0"	7' - 0"	WD	F	HM	F1		17.0	J12 / A-601	J10 / A-601	
110	BC - PREV	3' - 0"	7' - 0"	WD	F	HM	F1		17.0	J12 / A-601	J10 / A-601	
111	AC - PREV	3' - 0"	7' - 0"	WD	F	HM	F1		17.0	J12 / A-601	J10 / A-601	
112	MEDICAL DIR.	3' - 0"	7' - 0"	WD	F	HM	F1		17.0	J12 / A-601	J10 / A-601	
113	AC - EMS	3' - 0"	7' - 0"	WD	F	HM	F1		17.0	J12 / A-601	J10 / A-601	
114	ADMIN DIV. CONF.	3' - 0"	7' - 0"	WD	F	HM	F1		17.0	J12 / A-601	J10 / A-601	
115	DC - ADMIN	3' - 0"	7' - 0"	WD	F	HM	F1		17.0	J12 / A-601	J10 / A-601	
116	OPEN OFFICE	3' - 0"	7' - 0"	WD	F	HM	F1		17.0	J12 / A-601	J10 / A-601	
121	CHIEF	3' - 0"	7' - 0"	WD	F	HM	F1		17.0	J12 / A-601	J10 / A-601	
124	PR-FUTURE	3' - 0"	7' - 0"	WD	F	HM	F1		17.0	J12 / A-601	J10 / A-601	
125	ADMIN MGR	3' - 0"	7' - 0"	WD	F	HM	F1		17.0	J12 / A-601	J10 / A-601	
126	BC - TRAIN-FUTURE	3' - 0"	7' - 0"	WD	F	HM	F1		17.0	J12 / A-601	J10 / A-601	
127	AC - TRAIN	3' - 0"	7' - 0"	WD	F	HM	F1		17.0	J12 / A-601	J10 / A-601	
128	OPP. DIV CONF	3' - 0"	7' - 0"	WD	F	HM	F1		17.0	J12 / A-601	J10 / A-601	
129	DC - OPP	3' - 0"	7' - 0"	WD	F	HM	F1		17.0	J12 / A-601	J10 / A-601	
134	ROOF	3' - 0"	7' - 0"	WD	F	HM	F1		19.0	J12 / A-601	J10 / A-601	
141	STORAGE	3' - 0"	7' - 0"	WD	F	HM	F1		17.0	J12 / A-601	J10 / A-601	
142	CONFERENCE	3' - 0"	7' - 0"	WD	V	HM	F1		17.0	J12 / A-601	J10 / A-601	
143	CONFERENCE	3' - 0"	7' - 0"	WD	V	HM	F1		17.0	J12 / A-601	J10 / A-601	
144	PLANNER	3' - 0"	7' - 0"	WD	V	HM	F1		17.0	J12 / A-601	J10 / A-601	
145	AC - EMERG MGMT	3' - 0"	7' - 0"	WD	V	HM	F1		17.0	J12 / A-601	J10 / A-601	
149	JAN	3' - 0"	7' - 0"	WD	F	HM	F1		22.0	J12 / A-601	J10 / A-601	
153	STORAGE	3' - 0"	7' - 0"	WD	F	HM	F1		20.0	J12 / A-601	J10 / A-601	
156	STOR.	3' - 0"	7' - 0"	WD	DF	HM	F1		26.0	J12 / A-601	J10 / A-601	
157	MECH.	3' - 0"	7' - 0"	HM	F	HM	F1		22.0	J12 / A-601	J10 / A-601	

ALTERNATES LEGEND

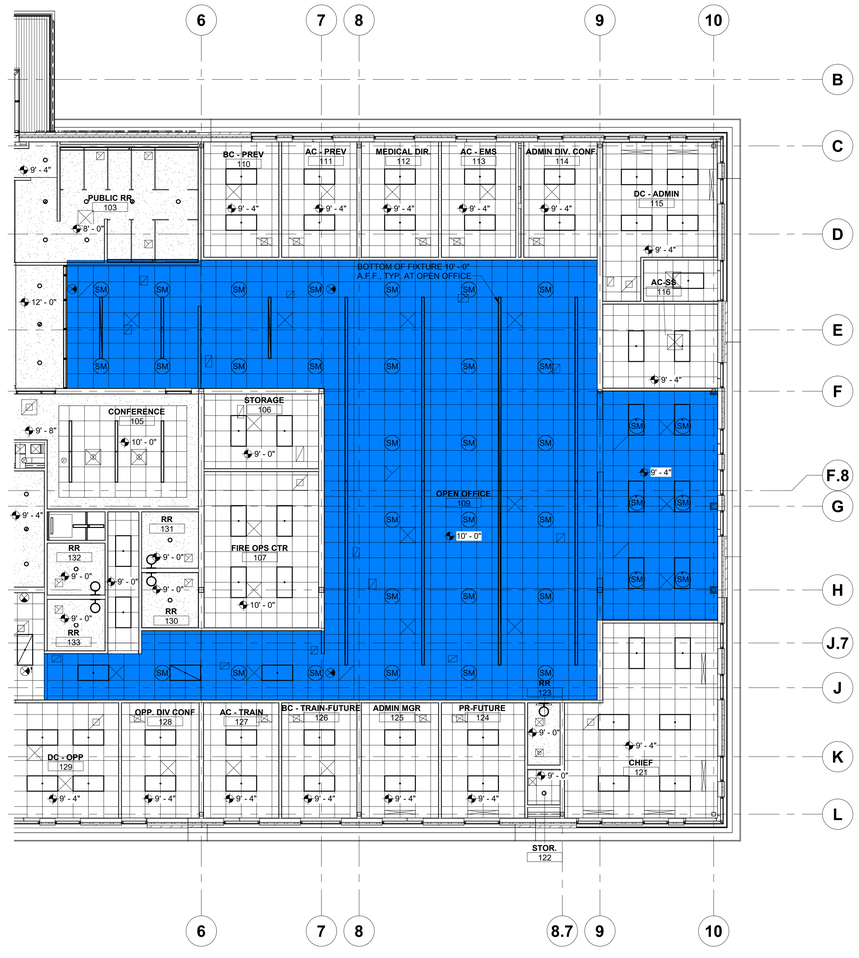
ALT.#	DESCRIPTION
1	REFERENCE NOTES FOR ADDED CARD READER IN HARDWARE SETS 17.0, 18.0, 19.0, 20.0, 22.0, 24.0, 25.0, 26.0, 27.0 FOR DOORS SHOWN IN ALTERNATE #1 DOOR SCHEDULE
2	PROVIDE VEHICLE BUILDING RE-SHEETS A-104 AND A-105
3	PROVIDE SOUND MASKING IN OPEN OFFICE 109. RE A1/G-411 FOR LOCATIONS.
4	ADD PRINT #51777, COLOR V908 ON SURFACE #2 TO ALL GLASS IN WINDOW TYPES A1, A2, B1, B2, C1, C2, C3, C4, C5, C6, C7, AND C8
5	ADD UNDER SLAB WATERPROOFING TO LOWER LEVEL FOUNDATIONS AND SLAB ON GRADE. RE A7/G-411 AND E7/G-411.



E7 FOUNDATION SECTION @CONCRETE WALL - ALTERNATE #5
1 1/2" = 1'-0"



A7 FOUNDATION SECTION @ METAL STUD - ALTERNATE #5
1 1/2" = 1'-0"



NORTH

A1 ALTERNATE #3 RCP
1/8" = 1'-0"

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LEE'S SUMMIT JOINT OPERATIONS FACILITY

PACKAGE 2: CONSTRUCTION SET

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

REVISION DATES:

STATE OF MISSOURI
CHRISTOPHER KRUMREI
NUMBER A-2016012111
11/1/24
ARCHITECT

PROFESSIONAL SEAL

G-411

ISSUE DATE: NOVEMBER 1, 2024
HOEFER WELKER #: 138191

ALTERNATES

STRUCTURAL NOTES

2018 INTERNATIONAL BUILDING CODE

GENERAL NOTES:
1. DESIGN AND CONSTRUCTION SHALL CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE.

2. THE DRAWINGS REPRESENT THE FINISHED STRUCTURE, NOT THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE NEW AND EXISTING STRUCTURE DURING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO BRACING, SHORING FOR CONSTRUCTION LOADS AND EQUIPMENT, ETC. THE ARCHITECT-ENGINEER IS NOT RESPONSIBLE FOR THE CONTRACTOR'S MEANS AND METHODS, SEQUENCES OF CONSTRUCTION, OR THE SAFETY PROGRAM. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT-ENGINEER WILL NOT INVOLVE REVIEW OF THESE ITEMS.

3. CONTRACTOR IS TO ESTABLISH AND VERIFY OPENINGS AND INSERTS FOR ITEMS TO BE INSTALLED BY OTHER TRADES PRIOR TO SUBMITTAL OF SHOP DRAWINGS AND CONSTRUCTION.

4. CONSTRUCTION MATERIAL AND EQUIPMENT PLACED ON FRAMED CONSTRUCTIONS SHALL BE SUCH THAT THE LOAD DOES NOT EXCEED THE DESIGN LIVE LOAD OF THE CONSTRUCTION. PROVIDE SHORING OF CONSTRUCTIONS WHERE NECESSARY FOR LOADS.

5. DETAILS THAT ARE NOTED AS "TYP." ON DETAIL TITLES ARE TO BE APPLIED TO THE PROJECT CONSTRUCTION AS GENERAL CONSTRUCTION METHODS UNLESS NOTED OTHERWISE. THESE DETAILS ARE NOT CUT AT ALL LOCATIONS THEY OCCUR AND MAY NOT BE CUT AT ALL.

6. CONTRACTOR NOTE: PROVIDE 2 TONS OF MISCELLANEOUS STRUCTURAL STEEL SHAPES (LABOR FOR BOTH LABOR FOR DETAILING AND ERECTION INCLUDED FOR FIELD USE AS DIRECTED BY THE ARCHITECT/ENGINEER.

DESIGN:
ALL CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING CODES AND STANDARDS, EXCEPT WHERE NOTED TO THE CONTRARY ON DRAWINGS OR WHERE MORE STRINGENT REQUIREMENTS ARE SHOWN.

ACI 301	SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS.
ACI 318	BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE
AISC 360-16	SPECIFICATIONS FOR STRUCTURAL STEEL FOR BUILDINGS
AISI-S100-16	NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS
AWS D1.1	STRUCTURAL WELDING CODE
ICC500-2014	ICC/NSSA STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTER

DEAD LOADS:
ROOF: 87 PSF (MAIN BUILDING)
CANOPY: 15 PSF

LIVE LOADS:
ROOF: 100 PSF
CANOPY: 20 PSF

SNOW LOADS:
SNOW LOADS IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE AND ASCE 7 INCLUDING DRIFTING SNOW LOADS CHAPTER 16.

Ce = 1.0
Ct = 1.0
Pg = 20 PSF
Pf = 16.8 PSF
Pf(min)=16 psf
RAIN ON SNOW LOAD=5 PSF
DESIGN BALANCE SNOW LOAD = 22 PSF

WIND LOAD:
WIND LOADS IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE.
ULTIMATE DESIGN WIND SPEED = 122 MPH
EXPOSURE = B

SEISMIC LOAD:
SEISMIC DESIGN IN ACCORD WITH 2018 INTERNATIONAL BUILDING CODE.
IE=1.5
SEISMIC USE GROUP IV
SITE CLASS = B
MAPPED SPECTRAL RESPONSE COEFFICIENTS: Ss = 0.16 SI = 0.082
SPECTRAL RESPONSE COEFFICIENTS: SDS = 0.082 SDI = 0.057
SEISMIC DESIGN CATEGORY A
INTERMEDIATE REINFORCED MASONRY WALLS & BRACED FRAMES.
Cs = 0.01

LATERAL LOAD RESISTANCE SYSTEM:
STEEL DECK ROOF DIAPHRAGMS TRANSFERRING LATERAL LOADS TO INTERMEDIATE REINFORCED MASONRY SHEAR WALLS & BRACED FRAME SUPPORTED BY SHALLOW CONCRETE FOUNDATIONS.

FOUNDATIONS:
1. A GEOTECHNICAL REPORT HAS BEEN COMPLETED BY GEOTECHNOLOGY, LLC DBA UES DATED MAY 21, 2024. UES PROJECT NO.: J045326.01. ALL RECOMMENDATIONS SHOULD BE FOLLOWED.

2. ALLOWABLE BEARING PRESSURE: 12000 PSF

3. FROST DEPTH = 12" ON SHALE & LIMESTONE

4. SEE GEOTECHNICAL REPORT FOR ANY ADDITIONAL OVEREXCAVATION AND SUBGRADE PREPARATION REQUIREMENTS. ALL RECOMMENDATION IN THE GEOTECHNICAL REPORT SHALL BE FOLLOWED UNO.

STRUCTURAL BACKFILL:
1. ALL BELOW-GRADE WALLS TO BE BACKFILLED WITH GRAVEL BACKFILL AS DESCRIBED IN GEOTECH REPORT.

2. PLACE BACKFILL AND COMPACT IN 8" LIFTS PER GEOTECH REPORT.

3. DESIGN EQUIVALENT FLUID PRESSURES (GRAVEL BACKFILL)
ACTIVE: 35 pst/ft
AT-REST: 56 pst/ft

CONCRETE:
1. CONCRETE MIX DESIGNS:
FOOTINGS:
MIN 28 DAY COMPRESSIVE STRENGTH = 4,000 PSI
W/C RATIO = 0.50
MAX AGGREGATE SIZE = 3/4"
SLUMP = 4" ±1"
AIR CONTENT = 6% ±1.5% (ASTM C 260)

WALLS:
MIN 28 DAY COMPRESSIVE STRENGTH = 4,000 PSI
W/C RATIO = 0.50
MAX AGGREGATE SIZE = 3/4"
SLUMP = 4" ±1"
AIR CONTENT = 6% ±1.5% (ASTM C 260)

SLAB ON GRADE:
MIN 28 DAY COMPRESSIVE STRENGTH = 4,000 PSI
W/C RATIO = 0.45
MAX AGGREGATE SIZE = 3/4"
MAX SLUMP = 4"
AIR CONTENT = 1.5% (ASTM C 260)

EXTERIOR CONCRETE:
MIN 28 DAY COMPRESSIVE STRENGTH = 4,500 PSI
W/C RATIO = 0.40
MAX AGGREGATE SIZE = 3/4"
SLUMP = 4"±1"
AIR CONTENT = 6% ± 1.5% (ASTM C 260)

2. IF CONTRACTOR DESIRES TO INCREASE SLUMP ABOVE ALLOWABLE LIMITS TO FACILITATE PLACEMENT OR PUMPING THIS SHALL BE DONE UTILIZING AN APPROPRIATE APPROVED ADMIXTURE - NO WATER SHALL BE ADDED AT THE PROJECT SITE WITHOUT THE ENGINEER'S PERMISSION. ALL ADMIXTURES SHALL BE APPROVED IN WRITING BY THE ENGINEER.

3. THE CONTRACTOR SHALL REJECT ANY CONCRETE THAT EXCEEDS THE SLUMP LIMITS NOTED ABOVE OR EXCEEDS THE TOTAL ALLOWABLE MIXING TIME.

4. FLY ASH MAY BE INCLUDED IN FOUNDATION CONCRETE.

5. NO ALUMINUM SHALL BE PLACED IN CONCRETE.

6. DURING HOT WEATHER (80 DEGREES F AND ABOVE, THE CONTRACTOR SHALL COMPLY WITH THE RECOMMENDATIONS ACI 305"HOT WEATHER CONCRETE." DURING COLD WEATHER (40 DEGREES F AND BELOW), THE CONTRACTOR SHALL COMPLY WITH THE RECOMMENDATIONS OF ACI-306 "COLD WEATHER CONCRETING."

7. THE CONCRETE MIX DESIGNS ARE TO BE SUBMITTED AS A FORMAL SUBMITTAL TO THE ENGINEER OF RECORD FOR REVIEW AND ACCEPTANCE. AFTER ACCEPTANCE OF THE MIX DESIGN BY THE ENGINEER OF RECORD, THE ACCEPTED DESIGNS MUST BE FORWARDED TO THE CITY INSPECTION DEPT. & THE SPECIAL INSPECTOR PRIOR TO CONCRETE BEING DELIVERED TO THE SITE.

CONCRETE REINFORCEMENT:
1. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.

2. CONCRETE COVER REQUIREMENTS FOR CAST-IN-PLACE, UNLESS OTHERWISE NOTED ON DETAILS:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
OTHER: #6 BARS AND LARGER: 2"
#5 BARS AND SMALLER: 1-1/2"

3. REINFORCING BAR SPLICES SHALL BE IN ACCORD WITH THE REQUIREMENTS OF ACI 318-14 AND THE REINFORCING SPLICE LENGTH TABLE SHOWN ON THE DRAWINGS.

COLD-FORMED FRAMING:
1. ALL COLD-FORMED FRAMING SHALL BE ASTM A 1003, GRADE ST 50H WITH G60 COATING.

2. PROVIDE COLD-FORMED METAL FRAMING CAPABLE OF WITHSTANDING DESIGN LOADS WITHIN LIMITS AND UNDER CONDITIONS INDICATE ON CONTRACT DOCUMENTS. 18 GA MINUMUM THICKNESS IS REQ'D. CONSULT LIGHT GAGE ENGINEER TO VERIFY SIZES UTILIZED FOR BID PURPOSES

3. DEFLECTION LIMITS:
L/240 UNLESS ITS AN APPLICATION AT MASONRY THEN L/600

4. PROVIDE SHOP DRAWINGS SHOWING LAYOUT, SPACING, SIZES, THICKNESS AND TYPES OF COLD-FORMED FRAMING INCLUDING FASTENING AND ANCHORAGE DETAILS WITH SUPPORTING CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF THE PROJECT.

5. SCREWS SHALL BE HILTI INC., KWIK-PRO SELF DRILLING OR AN APPROVED EQUAL. INSTALL IN ACCORD WITH MANUFACTURER'S RECOMMENDATIONS AND ICC REPORT ESR-2196.

6. WHERE GYPSUM SHEATHING IS NOT REQUIRED ON BOTH FACES OF STEEL STUDS, CONTINUOUS BRIDGING SHALL BE INSTALLED AS REQUIRED BY MANUFACTURER.

7. ALL LIGHT GAUGE STEEL FRAMING SHALL BE INSTALLED WITH BRIDGING, BRACING, TRACK, AND STIFFENERS, ETC. AS REQUIRED TO STRICTLY CONFORM TO MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL OBTAIN A COPY OF THE MANUFACTURER'S SUGGESTED CONSTRUCTION DETAILS TO USE AS A REFERENCE DURING CONSTRUCTION.

PRECAST CONCRETE
1. THE CONTRACTOR/SUPPLIER IS RESPONSIBLE FOR THE DESIGN OF ALL THE PRECAST MEMBERS AND CONNECTION BETWEEN THEM AND OTHER STRUCTURAL MEMBERS. SUBMIT DESIGN CALCULATIONS, SEALED BY AN ENGINEER LICENSED IN THE STATE OF THE PROJECT LOCATION, FOR REVIEW BY THE ARCHITECT/ENGINEER OF RECORD.

2. ALL PRECAST MEMBERS ARE TO BE DESIGNED IN ACCORDANCE WITH ACI 318-14, 2018 IBC AND OTHER APPLICABLE CODES, STANDARDS (SEE SPECS) AND DESIGNED CONNECTIONS.

3. PROVIDE BLOCKOUTS AND OPENINGS FOR MECHANICAL/ELECTRICAL EQUIPMENT. REFER TO MECHANICAL/ELECTRICAL DOCUMENTS.

4. SHOP DRAWINGS SHALL BE COMPLETE AND SHALL INCLUDE A LAYOUT PLAN, FABRICATION DETAILS, ESTIMATED CAMBER, CONNECTIONS AND ANCHORAGE DETAILS AND MEMBER IDENTIFICATION MARKS. IDENTIFICATION MARKS SHALL APPEAR ON MANUFACTURED UNITS TO FACILITATE CORRECT FIELD PLACEMENT.

5. REFER TO MECHNICAL/ELECTRICAL DRAWINGS FOR CONDUIT LOCATIONS EMBEDDED IN PRECAST MEMBERS

STRUCTURAL STEEL:
1. FABRICATOR SHALL BE AISC CERTIFIED IN LIEU OF THE PREVIOUS,FABRICATOR SHALL INCLUDE IN THEIR BID THE SERVICES OF A SPECIAL INSPECTOR TO PROVIDE INSPECTION/TESTING SERVICES FOR IN-SHOP WORK TO MEET THE REQUIREMENTS OF 2018 INTERNATIONAL BUILDING CODE SECTION 1704.

2. STRUCTURAL STEEL SHALL MEET ASTM A36 UNLESS NOTED OTHERWISE. STRUCTURAL STEEL WIDE FLANGE SHAPES SHALL MEET ASTM A992.

3. STEEL TUBES SHALL MEET ASTM A500, GRADE B.

4. STEEL PIPE SHALL MEET ASTM A53, TYPE E OR S, GRADE B.

5. BOLTS SHALL BE 3/4" DIAMETER A325-N UNLESS OTHERWISE NOTED.

6. FIELD BOLTING INSTALLATION SHALL BE INSPECTED IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE AND THE AISC LRFD MANUAL, SECOND EDITION. BOLTS SHALL BE INSTALLED SNUG TIGHT UNLESS NOTES OTHERWISE NOTED. ASTM A-325-SC SHALL BE FULLY TIGHTENED USING LOAD INDICATOR WASHERS.

7. ALL WELDING SHALL CONFORM TO THE PROVISIONS OF THE AMERICAN WELDING SOCIETY CODE AWS D1.1-98. ELECTRODES SHALL MATCH BASE METALS AS SPECIFIED IN 2018 INTERNATIONAL BUILDING CODE.

8. ALL FIELD WELDING SHALL BE VISUALLY INSPECTED BY THE TESTING LABORATORY.

9. HOT DIP GALVANIZE ALL STEEL MEMBERS EXPOSED TO EXTERIOR TO MEET ASTM 525 G60.

10. ALL STEEL BELOW GRADE SHALL BE ENCASED IN CONCRETE WHERE POSSIBLE; IF NOT POSSIBLE, STEEL SHALL BE THOROUGHLY COATED WITH TWO COATS OF ASPHALTIC PAINT.

STEEL JOISTS:
1. FABRICATOR SHALL BE AN "APPROVED FABRICATOR" IN ACCORD WITH THE 2018 INTERNATION BUILDING CODE BUILDING CODE SECTION 1704.2, REGISTERED AND APPROVED BY THE LOCAL BUILDING DEPARTMENT.

2. DESIGNED, FABRICATED AND ERECTED IN ACCORD WITH THE 2018 INTERNATION BUILDING CODE CHAPTER 22 AND THE STANDARD SPECIFICATIONS FOR STEEL JOIST, K-SERIES, LH-SERIES, DLH-SERIES AND JOIST GIRDERS, PUBLISHED BY THE STEEL JOIST INSTITUTE.

3. SIZE, TYPE AND SPACING OF JOIST BRIDGING TO BE IN ACCORD WITH STEEL JOIST INSTITUTE RECOMMENDATIONS. USE 'X'-BRIDGING AT DISCONTINUOUS ENDS OF BRIDGING. LOCATE BRIDGING TO AVOID MECHANICAL OPENINGS.

4. JOIST SEAT DEPTH SHALL BE 2-½" FOR 'K' SERIES AND 5" INCHES FOR 'LH' SERIES UNLESS NOTED OTHERWISE.

5. DESIGN EXTENDED ENDS FOR SAME DEAD LOADS AS JOIST AND A SNOW LOAD OF 40 PSF, AND OTHER LOADS AS INDICATED. LIMIT LIVE LOAD DEFLECTION TO L/240.

6. ADDITIONAL LOADS HAVE BEEN NOTED ON FRAMING PLANS. JOISTS SHALL BE DESIGNED TO SUPPORT THE ADDITIONAL LOADS. IT IS THE JOISTS SUPPLIERS RESPONSIBILITY TO DESIGN JOIST FOR ANY LOAD IN ADDITION TO THE DEAD AND LIVE LOADS LISTED ON THIS SHEET.

METAL DECK:
1. METAL ROOF DECK SHALL BE DEPTH X GAUGE SHOWN ON DRAWINGS(22 GA. MIN.), WITH NESTABLE SIDE LAPS AND PAINTED.

2. COMPOSITE FLOOR DECK SHALL BE DEPTH X GAUGE SHOWN ON DRAWING (22 GA MIN.), WITH NESTABLE SIDE LAPS AND GALVANIZED.

3. FASTEN ROOF DECK IN ACCORD WITH METAL DECK ATTACHMENT TYPES NOTED ON THE PLANS AND FASTENING DETAILS. DECK ATTACHMENT SHALL BE IN ACCOND WITH VULCRAFT AND THE STEEL DECK INSTITUTE'S SECOND EDITION OF THE DIAPHRAGM DESIGN MANUAL OR APPROVED EQUAL.

4. METAL DECK ATTACHMENTS SHALL BE INSPECTED BY TESTING LABORATORY.

MASONRY:
1. THE MINIMUM 28-DAY COMPRESSIVE STRENGTH OF THE CONCRETE MASONRY UNITS SHALL BE 1900 PSI ON THE NET AREA, PROVIDING A STRUCTURAL DESIGN COMPRESSIVE STRENGTH OF 1500 PSI PER THE 2018 INTERNATIONAL BUILDING CODE, TABLE 2105.2.2.1.2.

2. MORTAR SHALL BE TYPE S IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE, TABLE NO. 2103.7(1), MORTAR PROPORTIONS FOR UNIT MASONRY, USING CEMENT LIME OR MORTAR CEMENT MIXES. (MASONRY CEMENT IS NOT ACCEPTABLE).

3. ELEVATOR WALL MASONRY GROUT SHALL BE THE GREATER OF 2500 PSI OR THE COMPRESSIVE STRENGTH OF THE MASONRY UNITS. AIR ENTRAINMENT AND OTHER ADDITIVES ARE NOT ACCEPTABLE IN GROUT MIX. GROUT SHALL HAVE A SLUMP OF 8 TO 11 INCHES.

4. MASONRY REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.

5. HORIZONTAL JOINT REINFORCING SHALL BE STANDARD LADDER TYPE, GALVANIZED, AT 16-INCHES ON CENTER, UNLESS OTHERWISE NOTED ON PLAN.

6. MINIMUM BOND BEAM REINFORCING SHALL BE 2 - #4 IN 6" AND 8" BOND BEAMS AND 2 - #5 IN 12" BOND BEAMS. BOND BEAM REINFORCING SHALL BE CONTINUOUS THROUGH CONTROL JOINTS EXCEPT AS NOTED ON TYPICAL MASONRY WALL OPENING DETAIL.

7. SPLICE LENGTHS FOR MASONRY REINFORCEMENT SHALL BE IN ACCORD WITH THE REINFORCING SPLICE LENGTH TABLE OR AS SHOWN ON THE DRAWINGS.

8. PROVIDE BOND BEAMS AT TOP OF ALL WALLS, AT ROOFS, STRUCTURAL FLOORS, OVER ALL OPENINGS IN WALLS AND WHERE SHOWN ON THE DRAWINGS.

9. REINFORCING SHALL BE HELD IN PLACE PRIOR TO GROUTING WITH WIRE POSITIONERS PLACED AT INTERVALS NOT EXCEEDING 192 BAR DIAMETERS NOR 10 FEET. PROVIDE POSITIONERS AT REINFORCING SPLICES.

10. VERTICAL REINFORCING SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON THE PLANS OR DETAILS.

8" CONC BLOCK 1-#5 @ 4'-0" OC

11. PROVIDE 1 #5 VERTICAL REINFORCING AT JAMB OPENINGS, ENDS AND CORNERS OF ALL WALLS AND EACH SIDE OF CONTROL JOINTS. SPECIAL JAMB REINFORCING, WHERE REQUIRED, IS CALLED OUT ON THE PLANS.

12. ELECTRICAL PANELS, CONDUITS, PIPES, FIRE EXTINGUISHER CABINETS, ETC., ARE TO BE LOCATED SO AS NOT TO INTERFERE WITH REINFORCED AND/OR GROUTED CELLS. PIPES AND CONDUITS PASSING HORIZONTALLY THROUGH WALLS SHALL BE SLEEVED. MINIMUM SPACING OF SLEEVES SHALL BE THREE DIAMETERS.

13. GROUT SHALL BE MECHANICALLY CONSOLIDATED IN A MANNER TO FILL THE GROUT SPACE AND RECONSOLIDATED IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE.

14. PROVIDE GROUT AND MASONRY UNIT TESTING PRIOR TO AND DURING CONSTRUCTION IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE.

15. REINFORCEMENT PLACEMENT, GROUT SPACES AND GROUTING OPERATION SHALL BE INSPECTED BY TESTING LABORATORY IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE REQUIREMENTS. MORTAR FIN PROJECTION INTO THE GROUT SPACE SHALL NOT EXCEED 1/2 INCH.

POST-INSTALLED ANCHORS:
1. EXPANSION BOLTS INSTALLED IN CONCRETE OR MASONRY SHALL BE HILTI KWIK BOLT TZ ANCHORS OR APPROVED EQUAL WITH EMBEDMENT NOTED ON THE DRAWINGS OR EMBEDMENT AS RECOMMENDED BY MANUFACTURER WHERE NO EMBEDMENT IS SHOWN. INSTALL IN ACCORD WITH MANUFACTURER'S RECOMMENDATIONS AND ICC-ES REPORTS ESR-4266.

2. SCREW ANCHORS SHALL BE KWIK HUS-EZ-SS316 CONCRETE ANCHORS BY HILTI, INC. OR APPROVED EQUAL. INSTALL IN ACCORD WITH MANUFACTURER'S RECOMMENDATIONS AND ICC-ES REPORT ESR-3027

3. ADHESIVE ANCHORS SHALL BE HILTI:
-HIT-HY 200 SAFE SET SYSTEM WITH THE HILTI HIT-Z ROD OR HAS THREADED ROD, PER ICC ESR 3187
-HIT-HY SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) WITH HAS -E THREADED ROD PER ICC-3187
-HIT-RE 500 V3 EPOXY ADHESIVE ANCHORING SYSTEM WITH THREADED ROD PER ESR-3814

4. ANCHORS ARE NOT TO BE INSTALLED UNTIL CONCRETE OR GROUT HAS REACHED ITS DESIGN STRENGTH.

FIRE RATINGS:
1. FOR FIRE-RATING REQUIREMENTS AND METHODS, SEE ARCHITECTURAL DRAWINGS.

SPECIAL STRUCTURAL INSPECTIONS:
1. IN ACCORD WITH THE 2018 INTERNATIONAL BUILDING CODE, SECTION 1704, AS NOTED BELOW. TESTING AND INSPECTION SHALL BE BY AN INDEPENDENT TESTING/INSPECTION FIRM, UNDER THE SUPERVISION OF A LICENSED ENGINEER EMPLOYED BY THAT FIRM. THE BASIS FOR WELDING INSPECTOR QUALIFICATION SHALL BE AWS D1.1.

2. SPECIAL INSPECTION IS TO BE PROVIDED IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE LOCAL DEPARTMENT OF BUILDING SAFETY AND SHALL NOT BE CONSTRUED TO RELIEVE THE OWNER OR HIS AUTHORIZED AGENT FROM REQUESTING THE PERIODIC AND CALLED INSPECTIONS REQUIRED BY THE 2018 INTERNATIONAL BUILDING CODE.

3. THE INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.

4. THE INSPECTOR SHALL FURNISH DAILY INSPECTION REPORTS ON THE WORK TO THE BUILDING OFFICIAL AND TO THE ENGINEER OF RECORD FOR CONFORMANCE TO THE CONTRACT DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, AND, IF UNCORRECTED, TO THE ENGINEER OF RECORD AND THE BUILDING OFFICIAL.

5. THE TESTING/INSPECTION FIRM'S ENGINEER SHALL COMPLETE, SIGN AND SEAL A FINAL REPORT CERTIFYING THAT TO THE BEST OF HIS KNOWLEDGE, THE WORK IS IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.

STATEMENT OF SPECIAL INSPECTION			
IBC CODE REFERENCE	CONSTRUCTION TYPE	FREQUENCY CONT.	PER
1705.2	STEEL CONSTRUCTION		
1. INSPECTION OF WELDING			X
2. INSPECTION OF HIGH STRENGTH BOLTING			X
1705.3	REINFORCED CONCRETE		
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS AND PLACEMENT.			X
3. INSPECTION OF ANCHORS CAST IN CONCRETE			X
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.			X
5. VERIFYING USE OF REQUIRED MIX DESIGN			X
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS AND DETERMINE THE TEMPERATURE OF THE CONCRETE.		X	
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.		X	
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.			X
1705.4	MASONRY CONSTRUCTION		
1. VERIFY PROPORTIONS OF SITE-PREPARED MORTAR, CONSTRUCTION OF MORTAR JOINTS, LOCATION OF REINFORCEMENT, CONNECTORS AND ANCHORAGES AS CONSTRUCTION BEGINS.			X
2. VERIFY GROUT SPACING, GRADE AND SIZE OF REINFORCEMENT AND ANCHORS, PLACEMENT OF REINFORCING AND CONNECTIONS, PROPORTIONS OF SITE PREPARED GROUT PRIOR TO GROUTING.			X
3. VERIFY THE PLACEMENT OF GROUT.			X
1705.6	SOILS		
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE ADEQUATE BEARING CAPACITY.			X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.			X
3. PERFORM CLASSIFICATION AND TESTING OF THE COMPACTED FILL MATERIALS.			X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS 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

DEFERRED SUBMITTALS:
1. THE FOLLOWING ITEMS ARE DEFERRED SUBMITTAL ITEMS:
- PRECAST CONCRETE DOUBLE TEE SYSTEM AND PRECAST CONCRETE WALLS
- STEEL JOISTS

2. DEFERRED SUBMITTAL ITEMS SHALL BE PREPARED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF THE PROJECT WITH CALCULATIONS, DRAWINGS, DETAILS, AND CUT SHEETS SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW. ONCE REVIEWED, CONTRACTOR SHALL FORWARD TO THE BUILDING DEPARTMENT FOR APPROVAL. FABRICATION AND/OR INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT OCCUR UNTIL APPROVAL OF THE BUILDING DEPARTMENT IS RECEIVED.

SHOP DRAWING REVIEW:
1. J&S STRUCTURAL ENGINEERS, PA WILL REVIEW SHOP DRAWINGS AND RELATED SUBMITTALS FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND THE INFORMATION GIVEN IN THE CONSTRUCTION DOCUMENTS. REVIEW OF A SPECIFIC ITEM SHALL NOT INCLUDE REVIEW OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT.

2. THE FOLLOWING IS A LIST OF REQUIRED SHOP DRAWINGS AND RELATED SUBMITTALS. THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR MORE INFORMATION AND A COMPLETE LIST OF REQUIRED SUBMITTALS:
- ANCHOR BOLT LAYOUT DRAWINGS
- COLD-FORMED FRAMING SHOP DRAWINGS INCLUDING STANDARD DETAILS, BRACING AND BRIDGING REQUIREMENTS AND MATERIAL CERTIFICATIONS.
- CONCRETE BLOCK COMPRESSION TESTS AND MATERIAL CERTIFICATIONS
- CONCRETE MIX DESIGNS, TESTS AND MATERIAL CERTIFICATIONS
- CONCRETE REINFORCING SHOP DRAWINGS AND REINFORCING MATERIAL CERTIFICATIONS
- MASONRY GROUT AND AND MORTAR MIX DESIGNS
- MASONRY REINFORCING SHOP DRAWINGS
- STRUCTURAL STEEL SHOP DRAWINGS, MATERIAL CERTIFICATIONS AND WELDER CERTIFICATIONS

ICC-500 COMMUNITY SHELTER NOTES:

DEAD LOADS:
ROOF: 87 PSF (ICC SHELTER)

LIVE LOADS:
ROOF: 100 PSF

RAIN LOAD:
15 MINUTE:9.41 in/hour
60 MINUTE:4.46 in/hour

WIND LOAD
BASIC WIND SPEED = 250 MPH K_{dt} = 1.0
Iw=1.5 K_d = 1.0
EXPOSURE "C"
GCpi = +/- 0.55

SEISMIC LOAD:
SEISMIC DESIGN IN ACCORD WITH 2018 INTERNATIONAL BUILDING CODE.
IE=1.5
SEISMIC USE GROUP IV
SITE CLASS = B
MAPPED SPECTRAL RESPONSE COEFFICIENTS: Ss = 0.16 SI = 0.082
SPECTRAL RESPONSE COEFFICIENTS: SDS = 0.082 SDI = 0.057
SEISMIC DESIGN CATEGORY A
INTERMEDIATE REINFORCED PRECAST WALLS & BRACED FRAMES.
Cs = 0.01

QUALITY ASSURANCE PLAN:
1. ROOF FRAMING CONNECTIONS SHALL BE COMPLETED BY WELDED CONNECTIONS.
2. WALL CONNECTIONS SHALL BE REINFORCING DOWEL BARS CONNECTING CONCRETE FILLED METAL DECK TO PRECAST AND CONCRETE WALLS. (ACI 318)
3. BOUNDARY ELEMENTS ARE PROVIDED BY CONTINUOUS BOND BEAM AT PERIMETER OF EMERGENCY OPERATIONS CENTER.(ACI 318 & TMS 602)
4. MAIN WINDFORCE-RESISTING SYSTEM SHALL BE SUPPORTED BY PRECAST CONCRETE. (TMS 602)
5. PRECAST CONCRETE SHEARWALLS ARE CONNECTED TO FOUNDATIONS BY REINFORCING STEEL EMBEDED IN BOTH PRECAST WALL AND FOUNDATION COMPONENTS. (ACI 318 & TMS 602)
6. ALL WALL AND ROOF ASSEMBLIES MUST MEET IMPACT OR STATIC OR CYCLIC PRESSURE TEST REQUIREMENTS. (CHAPTER 3, ICC 500)
7. WALL CONSTRUCTION HAS BEEN DESIGNED FOR 250 MILES PER HOUR WIND LOADS, CLADDING IS EXEMPT FOR WIND REQUIREMENTS FOR EMERGENCY OPERATIONS SHELTERS (ASCE 7-16)
8. FOUNDATIONS SHALL BE PROVIDED TO RESIST GRAVITY AND WIND LOADS. (ASCE 7-16, ICC 500) AS NOTED ON FOUNDATIONS SECTION S000

GENERAL NOTES:
1. CONTRUCTION OBSERVATION IS REQUIRED AT SHELTER. SEE STATEMENT OF SPECIAL INSPECTION FOR MORE INFORMATION ON SHEET S001.
2. ALL DOORS MUST COMPLY WITH SECTION 306.3.1, ALL WINDOWS MUST COMPLY WITH SECTION 306.3.2 AND OTHER IMPACT-PROTECTIVE SYSTEMS COMPLYING WITH SECTION 306.4 OR BAFFLED TO PREVENT WIND-BORNE DEBRIS FROM ENTERING THE SHELTER PROTECTED OCCUPANT AREA IN ACCORDANCE WITH TEH SECTION 308.5.
3. ALL PENETRATIONS THROUGH SHELTER MUST COMPLY WITH SECTION 309

MASONRY SPLICE LENGTH TABLE

BAR SIZE	6" BLOCK	8" BLOCK		10" BLOCK		12" BLOCK	
	BAR @ CL	BAR @ CL	BAR @ EDGE	BAR @ CL	BAR @ EDGE	BAR @ CL	BAR @ EDGE
#4	1'-9"	1'-9"	3'-0"	1'-9"	2'-0"	1'-9"	1'-9"
#5	2'-8"	2'-2"	3'-9"	2'-2"	3'-3"	2'-2"	2'-3"
#6	-	3'-7"	4'-6"	3'-4"	4'-6"	3'-4"	4'-5"
#7	-	5'-0"	-	3'-10"	5'-3"	4'-2"	5'-3"

NOTE:
WHEN REQUIRED SPLICE LENGTH EXCEEDS 4'-0" USE HIGH LIFT GROUTING OR USE MECHANICAL TENSION SPLICES WITH LOW LIFT GROUTING

CONCRETE SPLICE LENGTH TABLE

BAR SIZE	FOOTING OR GRADE BEAM	PIER	WALL (VERTICAL)	WALL (HORIZONTAL)	SLAB	COLUMN	BEAM (BOTTOM)	BEAM (TOP)
#3	-	-	1'-8"	1'-8"	1'-8"	-	-	-
#4	2'-3"	-	2'-3"	2'-3"	2'-3"	-	-	-
#5	2'-9"	2'-7"	2'-9"	2'-9"	2'-9"	2'-0"	2'-7"	3'-5"
#6	3'-4"	3'-1"	3'-4"	3'-4"	3'-4"	2'-5"	3'-1"	4'-1"
#7	4'-10"	4'-6"	4'-10"	4'-10"	4'-10"	3'-6"	4'-6"	5'-11"
#8	5'-6"	5'-2"	5'-6"	-	-	4'-0"	5'-2"	6'-9"
#9	-	5'-10"	-	-	-	4'-6"	5'-10"	7'-7"
#10	-	6'-7"	-	-	-	5'-1"	6'-7"	8'-6"
#11	-	7'-3"	-	-	-	5'-7"	7'-3"	9'-6"

NOTES:
1. WHEN BARS OF DIFFERENT SIZE ARE LAP SPLICED, THE LARGER SPLICE LENGTH SHALL BE USED.
2. TOP BAR IS DEFINED AS ANY HORIZONTAL BAR THAT HAS MORE THAN 12" OF FRESH CONCRETE BELO

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
08/18/2025

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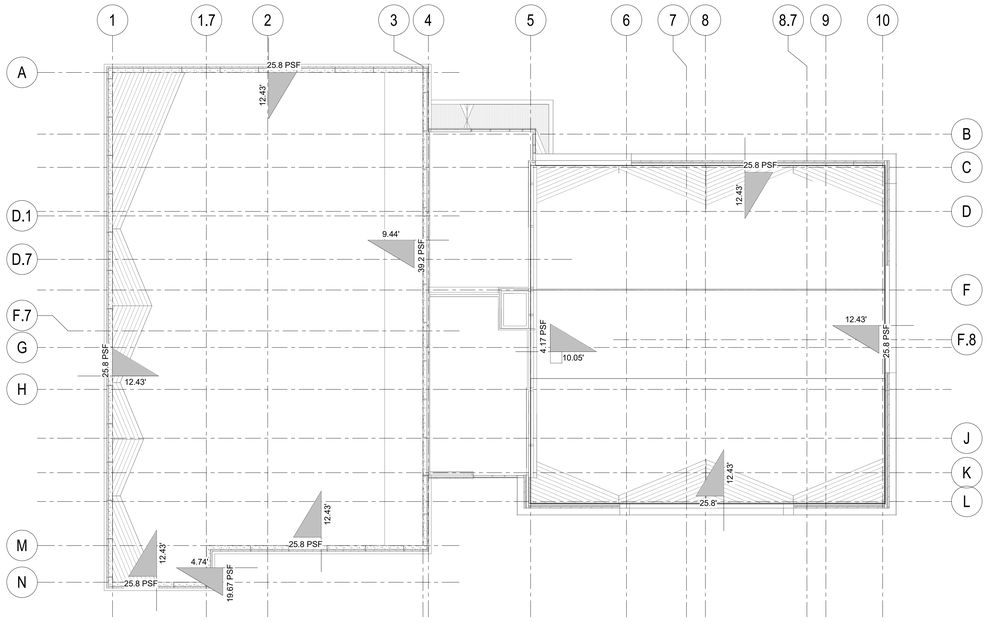


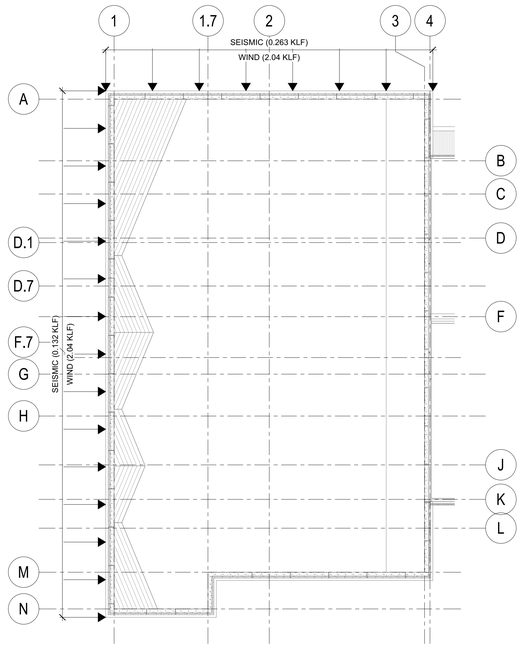
SNOW LOADING PLAN
1/16" = 1'-0"

COMPONENTS AND CLADDING PRESSURES: ICC 500

	COMPONENT	ZONE	+ PRESSURE	- PRESSURE		COMPONENT	ZONE	+ PRESSURE	- PRESSURE
ROOF	<=10 SF	1S	134.9	-246.0	WALL	<=10 SF	4S	230.1	-244.4
	100 SF	1S	128.6	-239.7		50 SF	4S	212.5	-226.8
	200 SF	1S	123.8	-234.9		200 SF	4S	197.3	-211.6
	>500 SF	1S	119.0	-230.1		>500 SF	4S	187.3	-201.6
	<=10 SF	2S	230.1	-373.0		<=10 SF	5S	230.1	-287.3
	100 SF	2S	220.1	-328.8		50 SF	5S	212.5	-252.0
	200 SF	2S	212.5	-295.3		200 SF	5S	197.3	-221.6
	>500 SF	2S	204.9	-261.9		>500 SF	5S	187.3	-201.6
	<=10 SF	3S	230.1	-373.0	PARAPET	<=10 SF	4S	187.3	-366.6
	100 SF	3S	220.1	-328.8		50 SF	4S	318.8	-340.2
	200 SF	3S	212.5	-295.3		<=10 SF	5S	345.2	-431.0
	>500 SF	3S	204.9	-261.9		50 SF	5S	318.8	-378.0

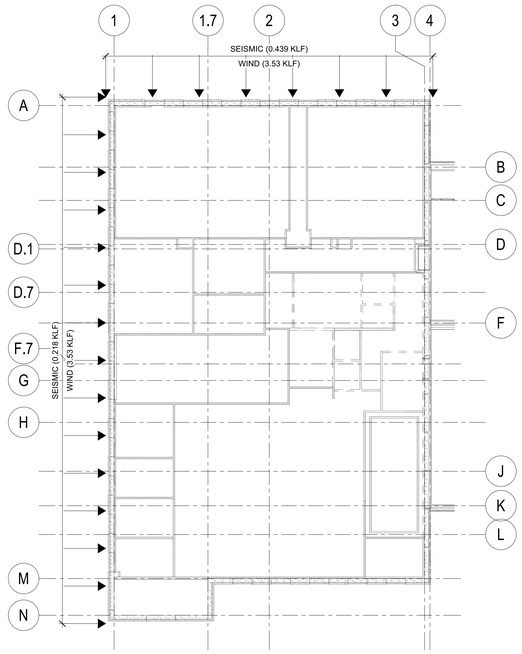
COMPONENTS AND CLADDING PRESSURES:

	Component	Zone	+ Pressure	- Pressure		Component	Zone	+ Pressure	- Pressure
ROOF	<=10 SF	1	11.5	-45.0	WALL	<=10 SF	4	25.8	-28.0
	100 SF	1	9.1	-35.1		50 SF	4	23.2	-25.3
	200 SF	1	9.1	-32.1		200 SF	4	20.9	-23.0
	>500 SF	1	9.1	-28.2		>500 SF	4	19.4	-21.5
	<=10 SF	2	25.9	-59.3		<=10 SF	5	25.8	-34.4
	100 SF	2	22.0	-46.6		50 SF	5	23.2	-29.1
	200 SF	2	20.9	-42.8		200 SF	5	20.9	-24.6
	>500 SF	2	19.4	-37.8		>500 SF	5	19.4	-21.5
	<=10 SF	3	25.8	-59.3	PARAPET	<=10 SF	4	38.7	-42.0
	100 SF	3	22.0	-46.6		50 SF	4	34.8	-38.0
	200 SF	3	20.9	-42.8		<=10 SF	5	38.7	-51.6
	>500 SF	3	19.4	-37.8		50 SF	5	34.8	-43.7



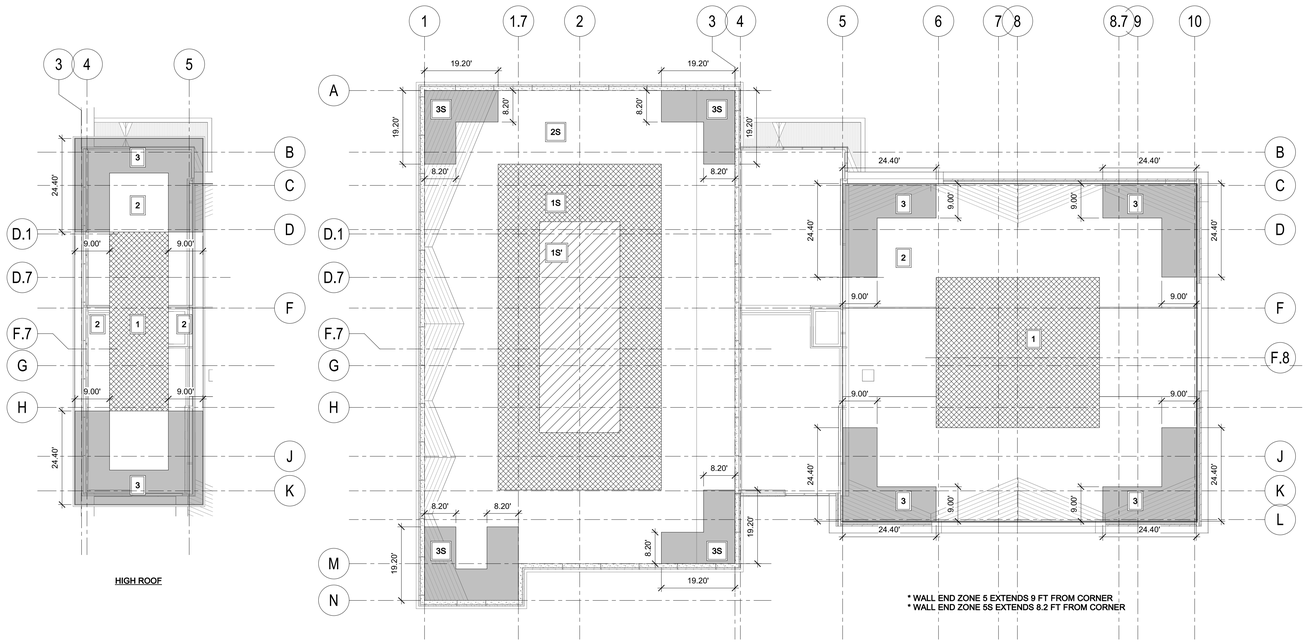
PRECAST DISTRIBUTED LOADS - UPPER LEVEL
1/16" = 1'-0"

NOTES:
ALL LOADING IS UNFACTORED AS PER ASCE 7-16, 2.3.1



PRECAST DISTRIBUTED LOADS - FLOOR
1/16" = 1'-0"

NOTES:
ALL LOADING IS UNFACTORED AS PER ASCE 7-16, 2.3.1



WIND COMPONENTS & CLADDING LOADING PLAN
1/16" = 1'-0"

LEE'S SUMMIT JOINT OPERATIONS

PACKAGE 1: SITE AND STRUCTURE

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

REVISION DATES:

7	ASI #4	2/12/2025

STATE OF MISSOURI
KIMBERLY EBERT JONES
PE-2005029619
PROFESSIONAL ENGINEER
2/19/25

PROFESSIONAL SEAL

S-001

ISSUE DATE: AUGUST 29, 2024
HOEFER WELKER #: 138161

LOADING PLANS

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
09/19/2025

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MO COA: 2009009344

LEE'S SUMMIT JOINT OPERATIONS

PACKAGE 1: SITE AND STRUCTURE

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

REVISION DATES:

1	ADDENDUM #1	9/19/24
2	ADDENDUM #2	10/30/24
10	CCD #002	1/23/24
18	CCD #003	5/5/25

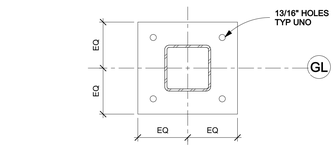
STATE OF MISSOURI
KIMBERLY EBERT JONES
PE-2005029619
PROFESSIONAL ENGINEER
5/1/25

PROFESSIONAL SEAL

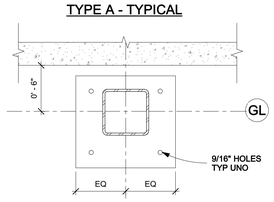
S-010

ISSUE DATE: AUGUST 29, 2024
HOEFER WELKER #: 138161

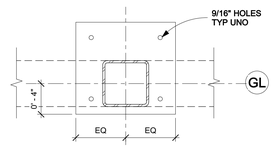
TYPICAL FOUNDATION DETAILS



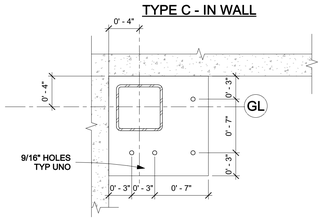
TYPE A - TYPICAL



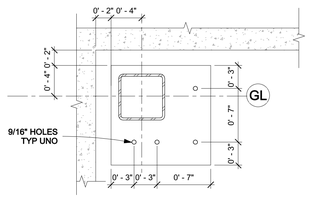
TYPE B - AT CONC WALL



TYPE C - IN WALL



TYPE D - AT CORNER

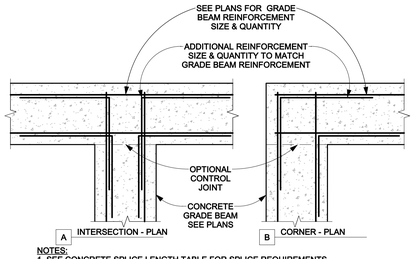


TYPE E - AT CORNER

NOTES:

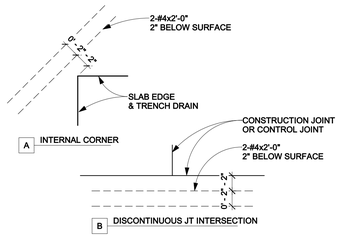
1. SEE FOUNDATION PLAN FOR BASEPLATE SIZE
2. PROVIDE 9/16"Ø HOLES 2" FROM EDGE
3. TYPE A UNLESS NOTED OTHERWISE ON PLAN

21 S-010 BASEPLATE ORIENTATION
1 1/2" = 1'-0"



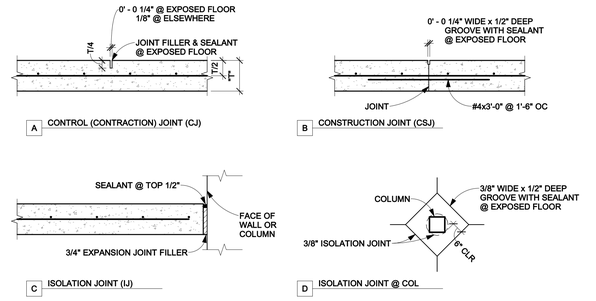
NOTES:
1. SEE CONCRETE SPLICE LENGTH TABLE FOR SPLICE REQUIREMENTS
2. ADDITIONAL REINFORCEMENT IS REQUIRED AT THE TOP AND BOTTOM FOR GRADE BEAM

12 S-010 TYPICAL GRADE BEAM REINFORCING DETAIL
3/4" = 1'-0"

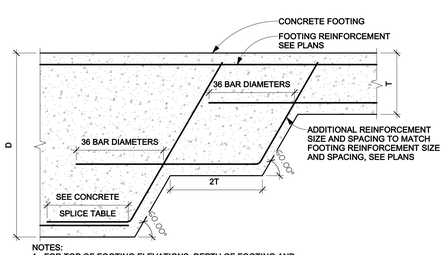


NOTE:
SEE PLANS FOR TYPICAL SLAB-ON-GRADE REINFORCEMENT

13 S-010 ADDITIONAL SLAB-ON-GRADE REINF
1 1/2" = 1'-0"

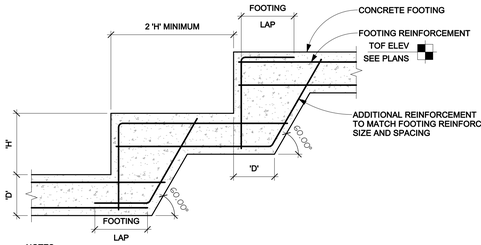


14 S-010 TYPICAL SLAB-ON-GRADE JOINTS
1 1/2" = 1'-0"



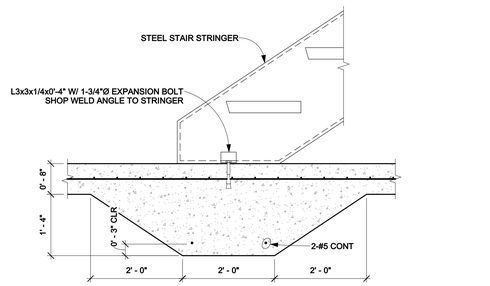
NOTES:
1. FOR TOP OF FOOTING ELEVATIONS, DEPTH OF FOOTING AND REINFORCEMENT, SEE PLANS AND TYPICAL FOOTING DETAILS.
2. PROVIDE TWO EQUAL STEPS WHEN 'D' IS GREATER THAN TWO TIMES 'T', OTHERWISE PROVIDE ONE STEP.

22 S-010 TYPICAL BOTTOM STEP FOOTING DETAIL
3/4" = 1'-0"



NOTES:
1. FOR FOOTING ELEVATION, DEPTH AND REINFORCEMENT SEE PLANS
2. TOP REINFORCEMENT WHERE OCCURS SEE PLANS
3. SEE CONCRETE SPLICE LAP TABLE FOR SPLICE LAPS

23 S-010 TYPICAL STEP FOOTING DETAIL
1" = 1'-0"



24 S-010 TYP THICKENED SLAB AT STAIR STRINGER
3/4" = 1'-0"

32 S-010 TYPICAL MAN DOOR AT PRECAST
1" = 1'-0"

33 S-010 TYP BOLLARD DETAIL
3/4" = 1'-0"

34 S-010 ACCESS FLOOR SLAB DETAIL
1 1/2" = 1'-0"

41 S-010 CONC SITE WALL DETAIL
1/2" = 1'-0"

42 S-010 DECORATIVE LIGHTPOLE BASE DETAIL
3/4" = 1'-0"

43 S-010 LIGHTPOLE BASE DETAIL
3/4" = 1'-0"

NOTES:
1. FOR PIPE 3'-0" OR LESS BELOW FOUNDATION , PROVIDE SLEEVES AS SHOWN.
2. FOR PIPE AND CONDUITS MORE THAN 3'-0" BELOW FOUNDATION, PIPE SLEEVE MAY BE ELIMINATED.
3. COORDINATE WITH MECHANICAL, ELECTRICAL AND ALL OTHER EFFECTED TRADES.

44 S-010 TYPICAL INSTALLATION OF PIPE
1 1/2" = 1'-0"

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/19/2025

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LEE'S SUMMIT JOINT OPERATIONS

PACKAGE 1: SITE AND STRUCTURE

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

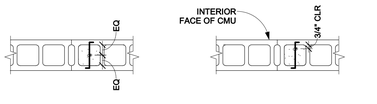
REVISION DATES:

11	ASI #6	2/26/25

PROFESSIONAL SEAL

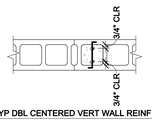
S-011

ISSUE DATE: AUGUST 29, 2024
HOEFER WELKER #: 138161



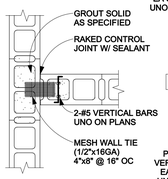
A TYP SINGLE CENTERED VERT WALL REINF

C TYP SINGLE INT FACE VERT WALL REINF

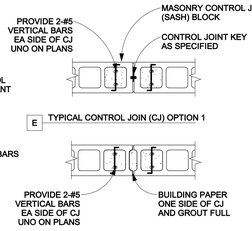


B TYP DBL CENTERED VERT WALL REINF

NOTES:
1. SEE PLANS, DETAILS AND STRUCTURAL NOTES FOR REINFORCEMENT SIZE AND QUANTITY.
2. LOCATE REINFORCEMENT AT ALL CORNERS, EACH SIDE OF OPENINGS AND CONTROL JOINTS, AND AT SPACING SHOWN ON PLANS AND DETAILS.
3. PROVIDED WIRE REBAR POSITIONERS AT 32" OC VERTICALLY TO HOLD BARS IN PLACE.



D TYP MASONRY WALL INTERSECTION

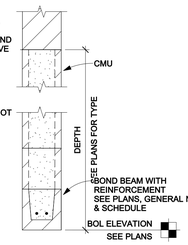


E TYPICAL CONTROL JOIN (CJ) OPTION 1

F TYP CONTROL JOIN (CJ) OPTION 2

11 TYPICAL MASONRY WALL REINFORCEMENT
S-011 3/4" = 1'-0"

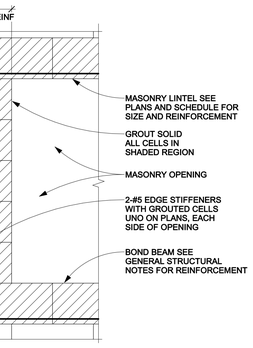
NOTES:
1. PROVIDE SHORING UNDER BEAM FOR A MINIMUM OF 7 DAYS AFTER GROUTING.
2. MONOLITHICALLY GROUT BOND BEAM AND ALL CELLS SOLID. GROUTING SHALL HAVE NO VERTICAL OR HORIZONTAL COLD JOINTS FULL HEIGHT AND LENGTH OF LINTEL INCLUDING END BEARINGS.
3. MECHANICALLY VIBRATE GROUT.
4. SEE TYPICAL MASONRY BEAM/LINTEL BEARING DETAIL FOR BEARING.
5. HORIZONTAL REINFORCEMENT SHALL NOT BE SPLICED.



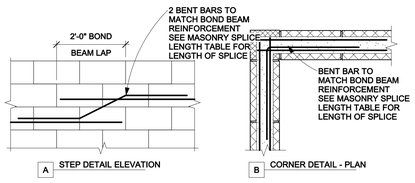
LINTEL SCHEDULE	
MARK	TYPE
ML-1	8x8 BOND BEAM W/ 1-#4
ML-2	8x16 BOND BEAM W/ 2-#4'S (UNO @ 8" CMU)
ML-3	8x24 BOND BEAM W/ 2-#4'S
ML-4	12x8 BOND BEAM W/ 2-#4'S
ML-5	12x16 BOND BEAM W/ 2-#5'S (UNO @ 12" CMU)
ML-6	12x24 BOND BEAM W/ 2-#5'S
ML-7	6x8 BOND BEAM W/ 1-#3
ML-8	6x16 BOND BEAM W/ 2-#4'S (UNO @ 6" CMU)

NOTES:
1. AT 8" CMU USE LINTEL ML-2 ALL OPENINGS ≤ 4'-8" AND ML-3 FOR ALL OPENINGS > 4'-8" AND < 8'-0" WIDE UNLESS OTHERWISE NOTED.
2. AT 12" CMU USE LINTEL ML-5 ALL OPENINGS ≤ 6'-8" AND ML-6 FOR ALL OPENINGS > 6'-8" AND < 10'-0" WIDE UNLESS OTHERWISE NOTED.
3. WHERE LINTEL IS NOTED AT SIMILAR, PROVIDE BOND BEAM AND REINFORCING PER SCHEDULE AT TOP AND BOTTOM OF LINTEL.
4. BOND BEAM REINFORCING SHALL BE CONTINUOUS, WITHOUT SPLICES.

13 TYPICAL MASONRY LINTEL DETAIL AND SCHEDULE
S-011 1" = 1'-0"



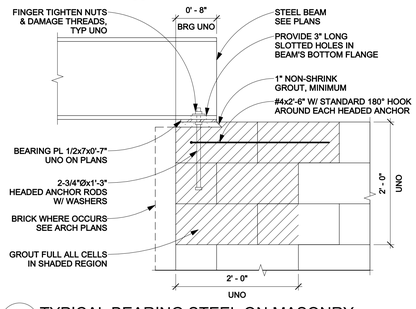
15 TYPICAL MASONRY LINTEL BEARING DETAIL
S-011 1" = 1'-0"



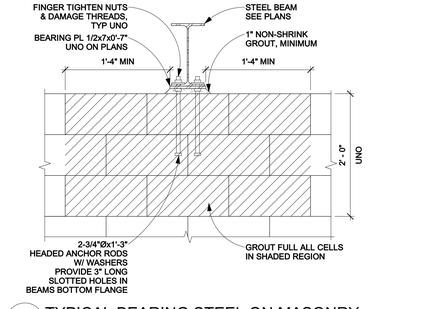
A STEP DETAIL ELEVATION

B CORNER DETAIL - PLAN

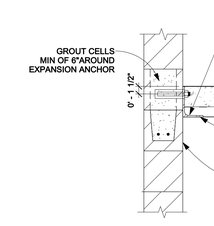
21 TYPICAL BOND BEAM DETAIL
S-011 3/4" = 1'-0"



22 TYPICAL BEARING STEEL ON MASONRY
S-011 1" = 1'-0"

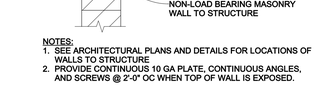


23 TYPICAL BEARING STEEL ON MASONRY
S-011 1" = 1'-0"



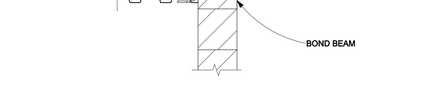
25 TYP COMPOSITE DECK TO MASONRY WALL
S-011 1" = 1'-0"

31 TYP METAL DECK ATTACH
S-011 1" = 1'-0"

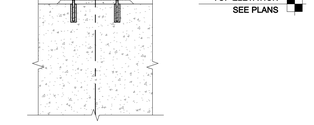


NOTES:
1. SEE ARCHITECTURAL PLANS AND DETAILS FOR LOCATIONS OF WALLS TO STRUCTURE
2. PROVIDE CONTINUOUS 10 GA PLATE, CONTINUOUS ANGLES, AND SCREWS @ 2'-0" OC WHEN TOP OF WALL IS EXPOSED.

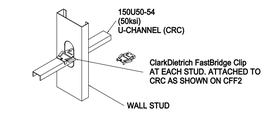
32 TYPICAL WALL BRACING DETAIL
S-011 1" = 1'-0"



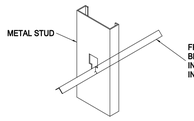
34 COMP DECK BEARING AT MAS WALL
S-011 1" = 1'-0"



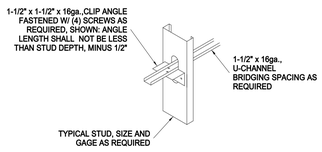
35 STEEL COLUMN BEARING CONCRETE
S-011 3/4" = 1'-0"



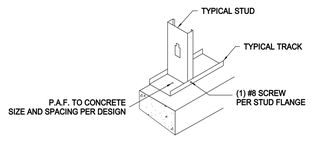
41 FASTBRIDGE BRIDGING OPTION
S-011 1/4" = 1'-0"



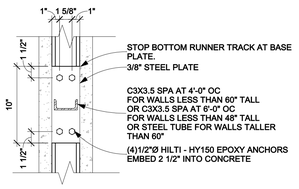
42 SPACER BAR BRIDGING OPTION
S-011 1/2" = 1'-0"

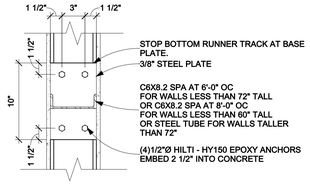


43 U-CHANNEL BRIDGING OPTION
S-011 1" = 20'-0"

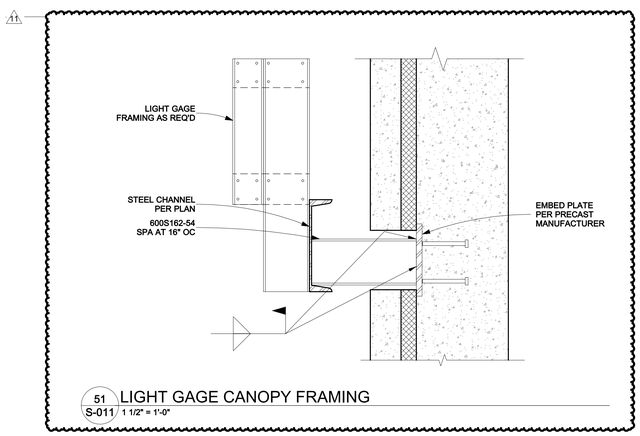


44 TYP STUD BASE CONNECTION
S-011 1/2" = 1'-0"

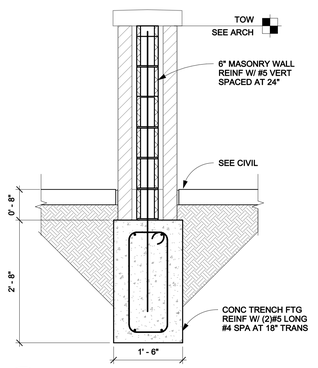




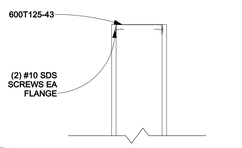
45 PARTIAL WALL HEIGHT SUPPORT
S-011 1 1/2" = 1'-0"



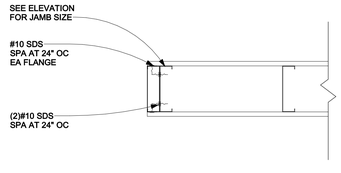
51 LIGHT GAGE CANOPY FRAMING
S-011 1 1/2" = 1'-0"



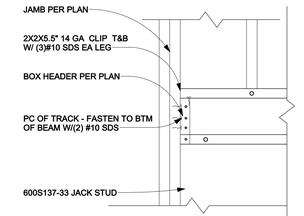
52 CMU PLANTER WALL
S-011 3/4" = 1'-0"



53 TYP SILL PLATE SECTION
S-011 1 1/2" = 1'-0"



54 TYP JAMB DETAIL
S-011 1 1/2" = 1'-0"



55 TYP HEADER CONNECTION
S-011 1 1/2" = 1'-0"

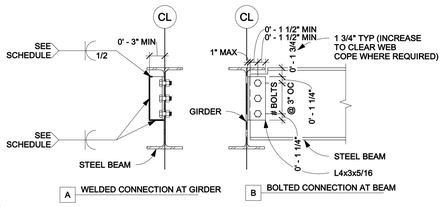
TYPICAL MASONRY & LIGHTGAGE DETAILS

SINGLE ANGLE CONNECTION SCHEDULE (LRFD)

BEAM SIZE	WELD SIZE	OFFSET 0" NUMBER OF BOLTS	OFFSET 0" SHEAR CAPACITY	OFFSET 2 1/2" MAX NUMBER OF BOLTS	OFFSET 2 1/2" MAX SHEAR CAPACITY	OFFSET 5" MAX NUMBER OF BOLTS	OFFSET 5" MAX SHEAR CAPACITY
W8 W10	3/16"	2	22K	2	14K*	-	14K
W12 W14	1/4"	3	43K	3	26K	2	26K**
W16 W18	1/4"	4	64K	4	64K	3	46K
W21	1/4"	5	80K	5	80K	4	64K
W24	1/4"	6	95K	6	95K	5	80K
W27	1/4"	7	111K	7	111K	6	95K
W30 W33	1/4"	8	127K	8	127K	7	111K
W36	1/4"	9	143K	9	143K	9	143K

NOTES:
1. BOLTS ARE 3/4"Ø A325N BOLTS. HOLES ARE 13/16"Ø HOLES IN SUPPORT MEMBER AND 13/16"x1" HORIZONTAL SHORT SLOTS IN ANGLES.
2. OFFSET INDICATES HEIGHT OF BEAM ABOVE GIRDER.

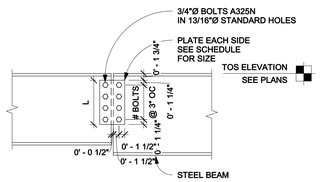
* W10 BEAMS ONLY
** W12 BEAMS ONLY



22 TYPICAL SINGLE ANGLE CONNECTION
S-012 1" = 1'-0"

CONNECTION SCHEDULE (LRFD)

BEAM SIZE	NUMBER OF BOLTS	L=PLATE LENGTH	PLATE THICKNESS	SHEAR CAPACITY
W8 W10	2	5 1/2"	1/4"	18K
W12 W14	3	8 1/2"	1/4"	36K
W16 W18	4	11 1/2"	1/4"	73K
W21	5	14 1/2"	1/4"	135K
W24	6	17 1/2"	1/4"	165K
W27	7	20 1/2"	1/4"	193K
W30 W33	8	23 1/2"	5/16"	239K
W36	9	26 1/2"	5/16"	271K



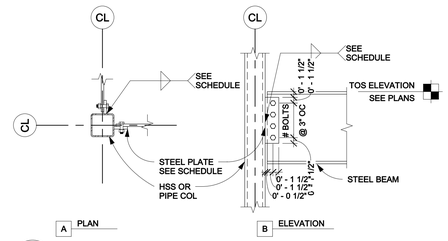
23 TYPICAL BEAM SPLICE DETAIL
S-012 3/4" = 1'-0"

CONNECTION SCHEDULE (LRFD)

BEAM SIZE	NUMBER OF BOLTS	L=PLATE LENGTH	PLATE THICKNESS	WELD SIZE	SHEAR CAPACITY
W8 W10	2	6"	1/4"	3/16"	18K
W12 W14	3	9"	1/4"	3/16"	36K
W16 W18	4	12"	1/4"	3/16"	53K
W21	5	15"	5/16"	1/4"	70K
W24	6	18"	5/16"	1/4"	87K
W27	7	21"	3/8"	1/4"	99K
W30 W33	8	24"	3/8"	5/16"	111K
W36	9	27"	7/16"	5/16"	123K

NOTE:

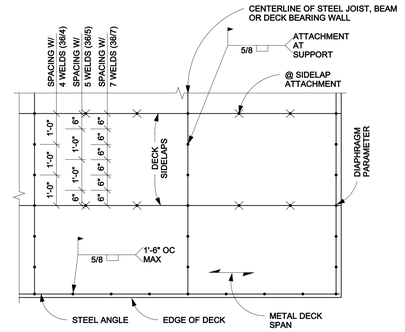
BOLTS ARE 3/4"Ø A325N BOLTS. HOLES ARE 13/16"Ø HOLES IN SUPPORT MEMBER AND 13/16"x1" HORIZONTAL SHORT SLOPS IN PLATES.



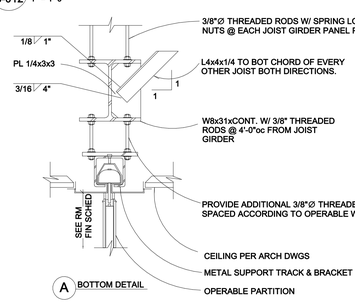
24 TYPICAL STEEL BEAM/COLUMN CONNECTION
S-012 3/4" = 1'-0"

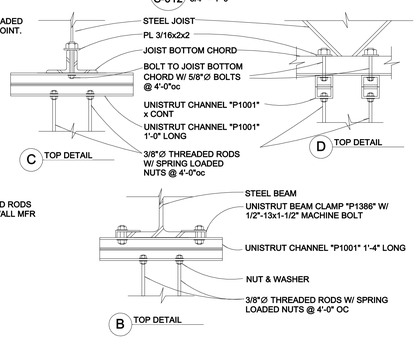
DECK ATTACHMENT SCHEDULE

ATTACHMENT TYPE	ATTACHMENT @ SUPPORTS	ATTACHMENT @ SIDELAPS	REMARKS
A	36/4: 4-5/8" Ø PER 36" WIDE SHEET	2-#10 SCREWS @ 1/3 POINTS	USE UNO ON PLANS
B	36/7: 7-5/8" Ø PER 36" WIDE SHEET	9-#10 SCREWS @ 1/10 POINTS	USE AT LOW ROOF
C	36/7: 7-5/8" Ø PER 36" WIDE SHEET	5-#10 SCREWS @ 1/6 POINTS	USE AT HIGH ROOF
D	36/4: 4-5/8" Ø PER 36" WIDE SHEET	5-#10 SCREWS @ 1/6 POINTS	
E	36/7: 7-5/8" Ø PER 36" WIDE SHEET	3-#10 SCREWS @ 1/4 POINTS	

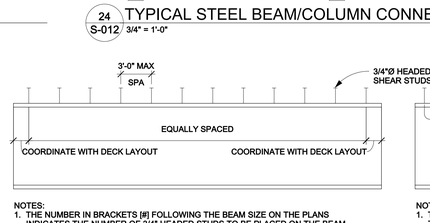


25 TYPICAL ROOF OR FLOOR DECK ATTACH
S-012 1" = 1'-0"



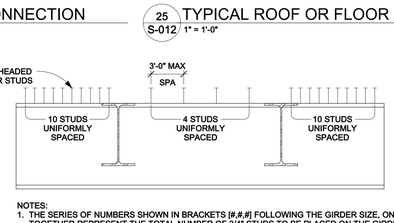


32 TYP OPERABLE WALL SUPPORT DETAIL
S-012 1" = 1'-0"



NOTES:
1. THE NUMBER IN BRACKETS [#] FOLLOWING THE BEAM SIZE ON THE PLANS INDICATES THE NUMBER OF 3/4" HEADED STUDS TO BE PLACED ON THE BEAM.
2. THE MAXIMUM STUD SPACING SHALL BE 3'-0"
3. DECK VALLEYS WITHOUT STUDS SHALL BE WELDED.
4. STUD PLACEMENT SHALL BE:
   A. WHEN THE NUMBER OF STUDS IS LESS THAN THE NUMBER OF DECK VALLEYS UNIFORMLY SPACE STUDS SYMMETRICALLY WITH THE BEAM CENTERLINE.
   B. WHEN THE NUMBER OF STUDS IS GREATER THAN THE NUMBER OF DECK VALLEYS PLACE ONE STUD IN EACH VALLEY STARTING AT THE END OF THE BEAM. WHEN TWO STUDS ARE REQUIRED PLACE STUDS 1 1/2" EACH SIDE OF THE BEAM WEB.

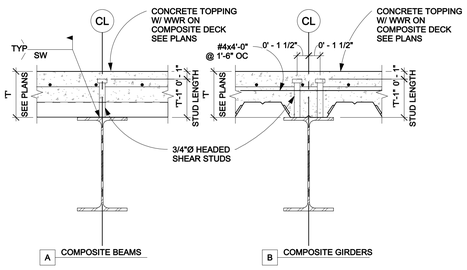
A COMPOSITE BEAMS



NOTES:
1. THE SERIES OF NUMBERS SHOWN IN BRACKETS [#,#,#] FOLLOWING THE GIRDER SIZE, ON THE PLANS, WHEN ADDED TOGETHER REPRESENT THE TOTAL NUMBER OF 3/4" STUDS TO BE PLACED ON THE GIRDER. FOR EXAMPLE [10,4,10] REPRESENTS A TOTAL OF 24 STUDS TO BE LOCATED ON THE GIRDER. THE FIRST (LAST) NUMBER REPRESENTING THE NUMBER OF STUDS TO BE PLACED BETWEEN THE END OF THE GIRDER AND THE FIRST (LAST) INTERSECTING BEAM. THE MIDDLE NUMBER REPRESENTS THE NUMBER OF STUDS TO BE LOCATED BETWEEN THE TWO INTERSECTING BEAMS.
2. PLACE STUDS UNIFORMLY ALONG THE BEAM OR PORTION OF BEAM INDICATED.
3. MAXIMUM STUD SPACING SHALL BE 3'-0".
4. MINIMUM STUD SPACING SHALL BE 4 1/2". IF THE REQUIRED NUMBER OF STUDS EXCEEDS WHAT CAN BE PLACED AT 4 1/2", PLACE A SECOND ROW OF STUDS SPACED AT 4 1/2" OC, STARTING AT THE END OF THE BEAM, UNTIL THE REQUIRED NUMBER OF STUDS IS REACHED. WHEN TWO ROWS ARE REQUIRED, PLACE STUDS 1 1/2" EACH SIDE OF THE BEAM CENTERLINE.

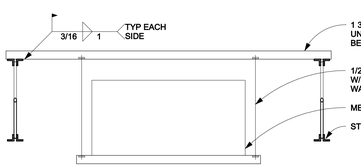
B COMPOSITE GIRDERS

34 TYPICAL COMPOSITE BEAM STUD PLACEMENT DETAIL
S-012 1" = 1'-0"

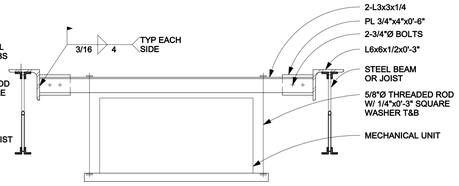


NOTE:
PROVIDE DECK GIRDER FILLER PLATE IF REQUIRED

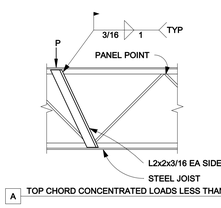
42 TYPICAL COMPOSITE BEAM & GIRDER
S-012 1 1/2" = 1'-0"



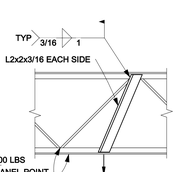
NOTE:
VERIFY SIZE AND LOCATION WITH MECHANICAL CONTRACTOR



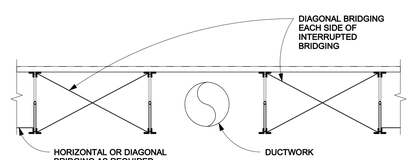
43 TYPICAL HANGING MECHANICAL UNIT DETAILS
S-012 1" = 1'-0"



NOTE:
PROVIDED REINFORCEMENT WHEN CONCENTRATED LOAD IS MORE THAN 4" FROM PANEL POINT

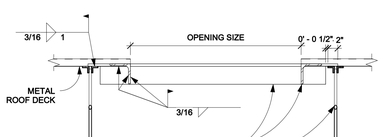


45 TYPICAL JOIST REINFORCEMENT DETAIL
S-012 1" = 1'-0"



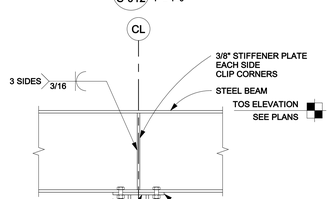
NOTES:
1. USE ONLY WHERE DUCTS ARE SHOWN BETWEEN JOIST ON MECHANICAL DRAWINGS. VERIFY LOCATION WITH MECHANICAL CONTRACTOR.
2. DO NOT INSTALL DUCTS IN TWO ADJACENT JOIST SPACES.

52 TYPICAL INTERRUPTION OF BRIDGING
S-012 3/4" = 1'-0"

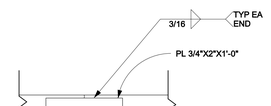


NOTE:
PROVIDE W8x10 AT SIMLIAR CONDITION WITH FLOOR OPENINGS

53 TYPICAL FLOOR AND ROOF OPENING DETAIL
S-012 1" = 1'-0"



54 TYPICAL BEAM TO COLUMN DETAIL
S-012 1" = 1'-0"



55 TYP PERIMETER ANGLE SPLICE
S-012 1 1/2" = 1'-0"

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LEE'S SUMMIT JOINT OPERATIONS

PACKAGE 1: SITE AND STRUCTURE

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

REVISION DATES:

1	ADDENDUM #1	9/19/24

STATE OF MISSOURI
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TYPICAL STRUCTURAL STEEL DETAILS

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LEE'S SUMMIT JOINT OPERATIONS

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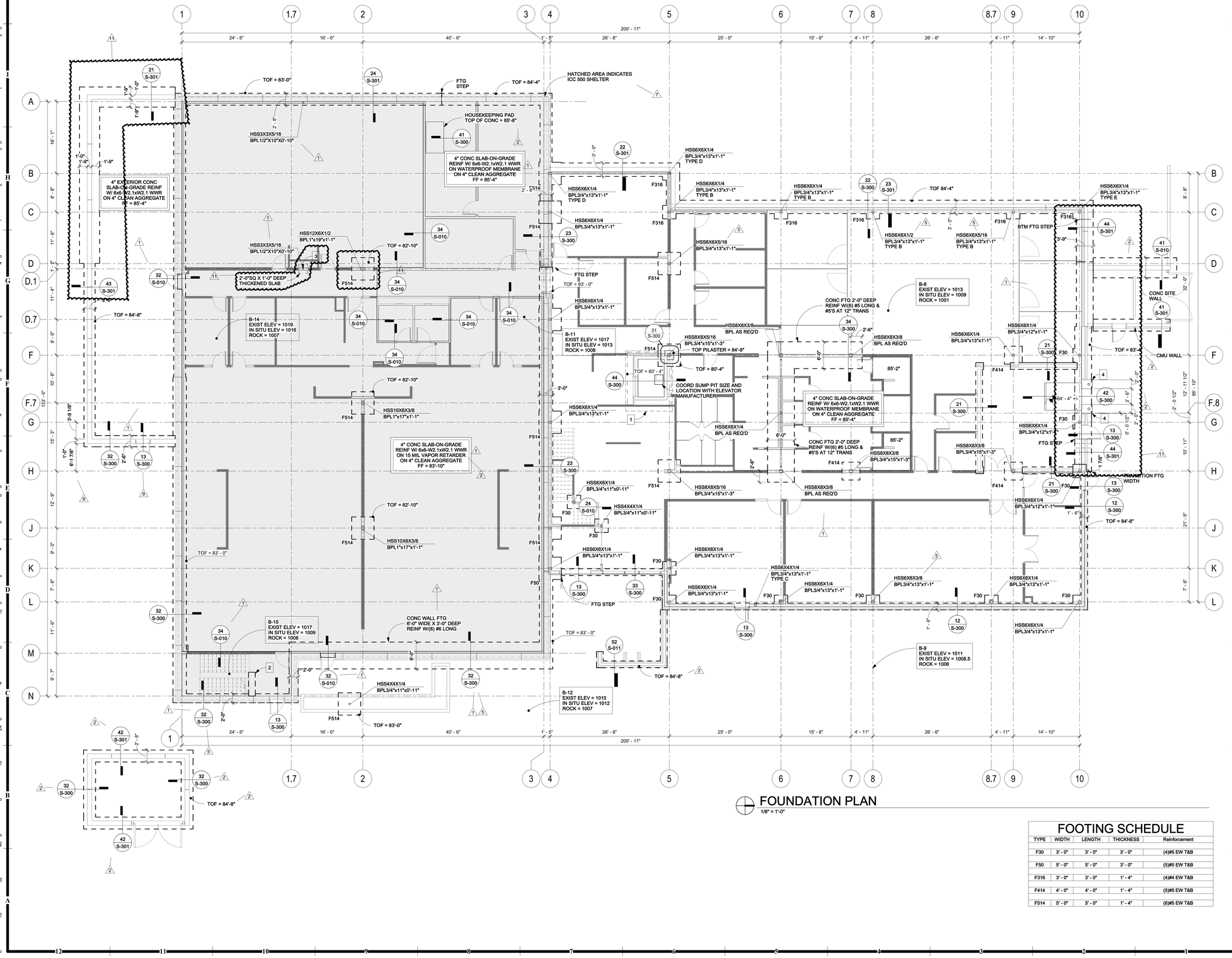
1	ADDENDUM #1	9/19/24
2	ADDENDUM #2	10/30/24
5	ASI #1	12/11/24
7	ASI #4	2/12/2025
9	CCD #001	1/29/24
11	ASI #6	2/26/25

FOUNDATION NOTES:

1. ALL ELEVATIONS ARE BASED ON A RELATIVE ELEVATION OF 100'-0" EQUAL TO THE INDICATED DATUM ELEVATION. VERIFY DATUM ELEVATION WITH THE LATEST CIVIL DRWAINGS PRIOR TO CONSTRUCTION.
2. COORDINATE TOP OF FOOTING ELEVATIONS WITH LATEST CIVIL DRAWINGS PRIOR TO CONSTRUCTION TO MAINTAIN 3'-0" MINIMUM FROST DEPTH. TOP OF FOOTING ELEVATION = 99'-4" UNLESS OTHERWISE SHOWN THUS.
3. SEE ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS AND WALL OPENINGS AND LOCATION OF THICKENED, SLOPED, RAISED, OR DEPRESSED SLABS.
4. PROVIDE ISOLATION JOINTS AND SAW CUT CONTROL JOINTS IN SLAB ON GRADE AS SHOWN IN DETAIL 13 ON SHEET S0.10 AND 15'-0" OC MAX.
5. ABBV: BPL - BASE PLATE
6. ALL BASEPLATES ARE TYPE A UNLESS NOTED OTHERWISE. SEE 21/S-010.

KEY NOTES:

1. (2)#6 IN EA CELL AT ELEVATOR SHAFT
2. THICKENED SLAB W/(2) #4
3. 4) 1/2"Ø X 6" CONC SCREWS LOCATED 1-1/2" FROM EDGE
4. BUMPOUT THICKENED SLAB FOR BOLLARD FOUNDATION. REINF W/ (2) #5 EA CORNER



FOUNDATION PLAN

1/8" = 1'-0"

FOOTING SCHEDULE

TYPE	WIDTH	LENGTH	THICKNESS	Reinforcement
F30	3' - 0"	3' - 0"	3' - 0"	(4)#5 EW T&B
F50	5' - 0"	5' - 0"	3' - 0"	(5)#5 EW T&B
F316	3' - 0"	3' - 0"	1' - 4"	(4)#4 EW T&B
F414	4' - 0"	4' - 0"	1' - 4"	(5)#5 EW T&B
F514	5' - 0"	5' - 0"	1' - 4"	(6)#5 EW T&B

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FOUNDATION PLAN

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LEE'S SUMMIT JOINT OPERATIONS

PACKAGE 1: SITE AND STRUCTURE

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

FRAMING NOTES:

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2. TRUSS GIRDER HEIGHT TO MATCH MONOTRUSS HEIGHT AS REQ'D.

TOS = 98'-6"

TOS = 99'-0"

KEY NOTES:

1. HOUSEKEEPING PAD - TOP OF CONCRETE = 100'-4"
2. FRAME FLOOR OPENING W/ W8X10 EA SIDE AS REQ'D
3. PRECAST STAIR SYSTEM
4. 600S162-43 SPA AT 16" OC
5. BOXED BEAM - (2)600S162-54
6. C6X8.2 VERT & BRICK SUPPORT PLATE SEE 45/S-300
7. METAL GRATING - GW-19-W-2 W/ 1" X 3/16" BARS
8. PROVIDE 16" WIDE EMBED PLATE TO ALLOW FOR BEAM LOCATION ADJUSTMENT
9. 4) 1/2"Ø X 6" CONC SCREWS LOCATED 1-1/2" FROM EDGE

REVISION DATES:

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3	ADDENDUM #3	11/18/24
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7	ASI #4	2/12/2025
9	CCD #001	1/29/24
10	CCD #002	1/23/24
11	ASI #6	2/26/25
16	ASI #9	4/10/25
18	CCD #003	5/5/25

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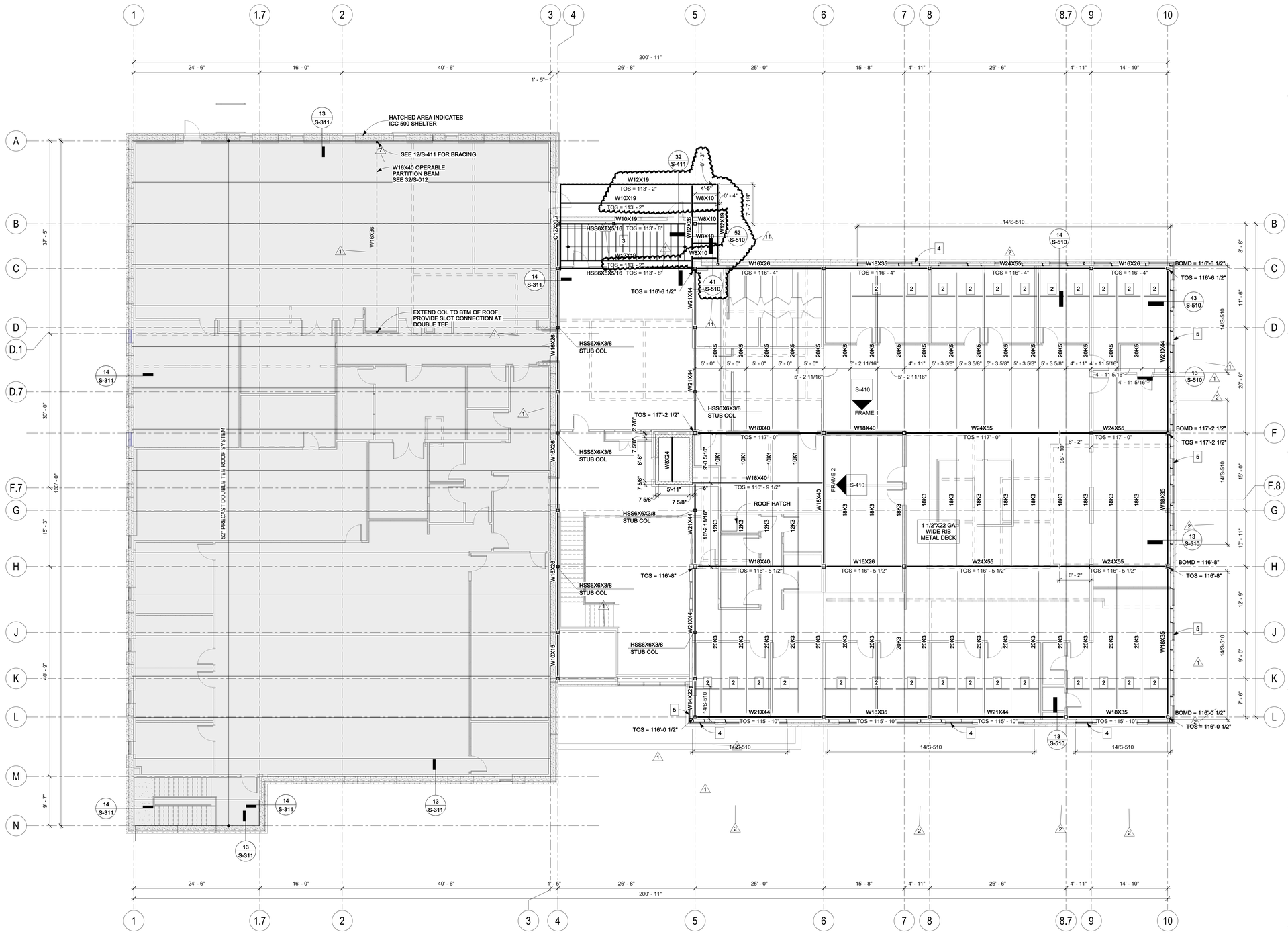
MAIN FLOOR FRAMING PLAN

1 MAIN LEVEL FLOOR FRAMING
1/8" = 1'-0"

43 S-200 DBL DOOR ENTRY STAIR SECTION
1/2" = 1'-0"

44 S-200 DBL DOOR ENTRY SECTION
1/2" = 1'-0"



ROOF FRAMING PLAN

1/8" = 1'-0"

FRAMING NOTES:

1. ALL ELEVATIONS ARE BASED ON A RELATIVE ELEVATION OF 100'-0" EQUAL TO THE INDICATED DATUM ELEVATION. VERIFY DATUM ELEVATION WITH THE LATEST CIVIL DRWAINGS PRIOR TO CONSTRUCTION.
2. TRUSS GIRDER HEIGHT TO MATCH MONOTRUSS HEIGHT AS REQ'D.

KEY NOTES

1	600S162-43 SPA AT
2	L4X4X3/8" BET JOISTS
3	600S162-43 SPA AT 16" OC
4	BRICK SUPPORT PLATE & C6X8.2 VERT SPA AT 4'-0" OC - SEE 14/S-510
5	BRICK SUPPORT PLATE & C6X8.2 VERT SPA AT 4'-0" OC - SEE 43/S-510

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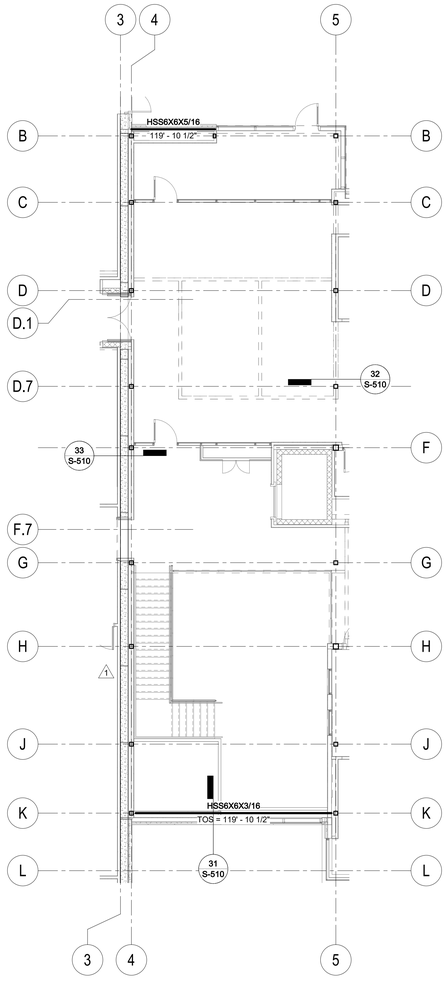
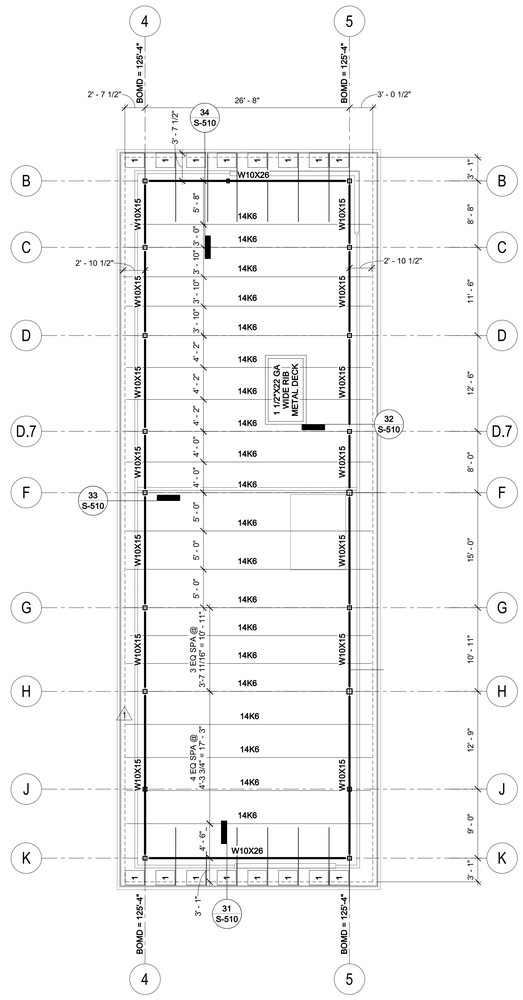
ROOF FRAMING PLAN



WIND BEAM PLAN
1/8" = 1'-0"



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

FRAMING NOTES:

1. **ALL ELEVATIONS ARE BASED ON A RELATIVE ELEVATION OF 100'-0" EQUAL TO THE INDICATED DATUM ELEVATION. VERIFY DATUM ELEVATION WITH THE LATEST CIVIL DRWAINGS PRIOR TO CONSTRUCTION.**
2. **TOS = 125'-0" UNLESS NOTED OTHERWISE.**

KEY NOTES

1	L4X4X1/4" OUTRIGGER SPA AT 4'-0" OC

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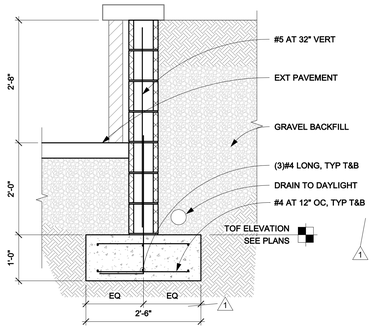
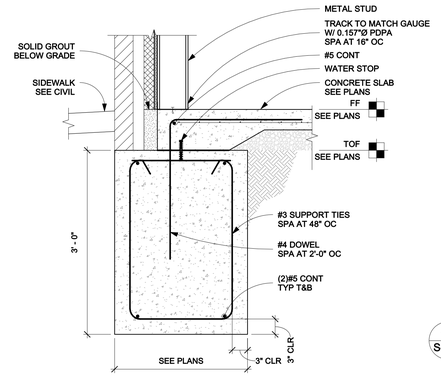
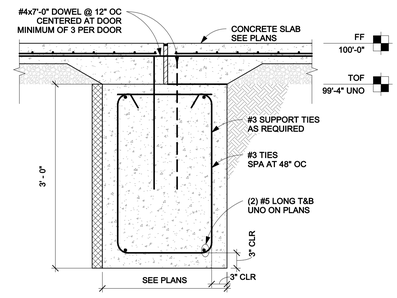
HIGH ROOF FRAMING PLAN



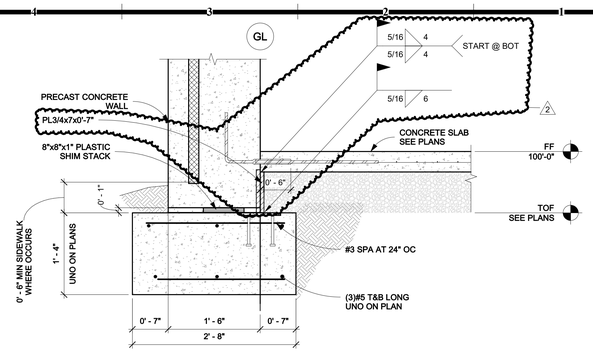
11 S-300 TYP MASONRY PLANTER WALL 3/4" = 1'-0"



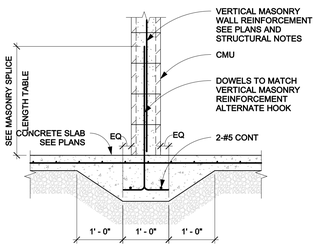
12 S-300 TYP GRADE BEAM AT STUD WALL 1" = 1'-0"



13 S-300 TYPICAL GRADE BEAM AT MAN DOOR 1" = 1'-0"

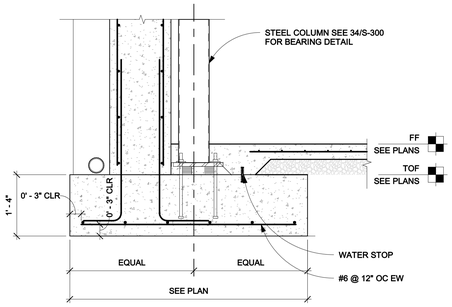


14 S-300 TYPICAL EXTERIOR FOOTING AT PRECAST 1" = 1'-0"

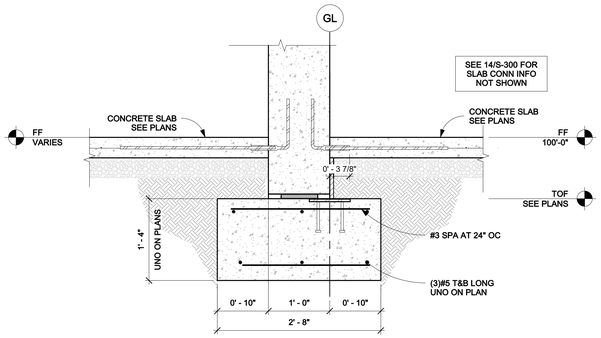


NOTE:
CONTRACTOR HAS THE OPTION TO EPOXY DOWELS INTO THICKENED SLAB AS AN ALTERNATIVE TO HOOKED DOWELS. SEE EPOXY EMBEDMENT TABLE.

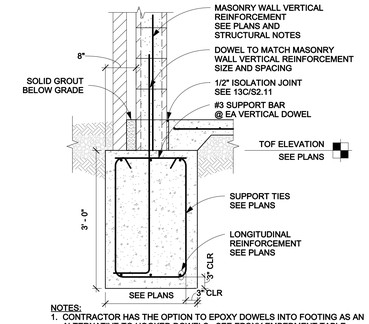
21 S-300 TYPICAL THICKENED SLAB AT CMU 3/4" = 1'-0"



22 S-300 TYPICAL BASEMENT TYP FOOTING AT COLUMN 3/4" = 1'-0"

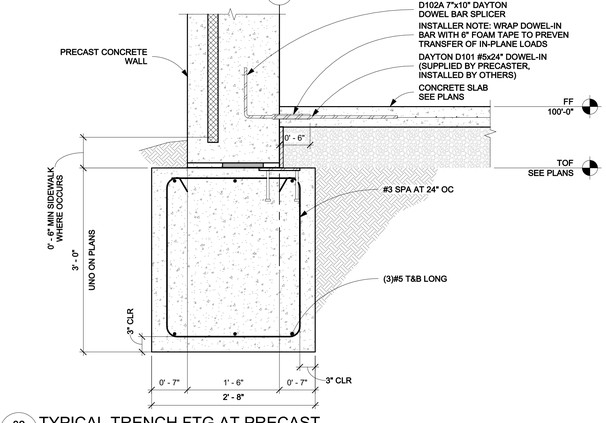


23 S-300 TYPICAL INTERIOR FOOTING DETAIL 1" = 1'-0"

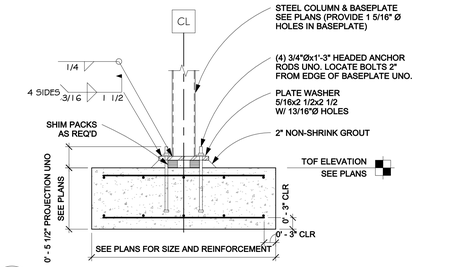


NOTES:
1. CONTRACTOR HAS THE OPTION TO EPOXY DOWELS INTO FOOTING AS AN ALTERNATIVE TO HOOKED DOWELS. SEE EPOXY EMBEDMENT TABLE.

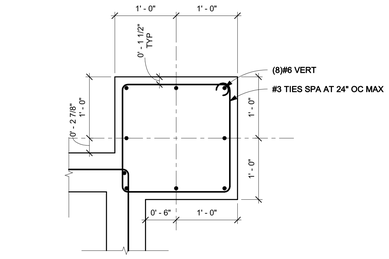
24 S-300 TYPICAL MASONRY WALL FOOTING 3/4" = 1'-0"



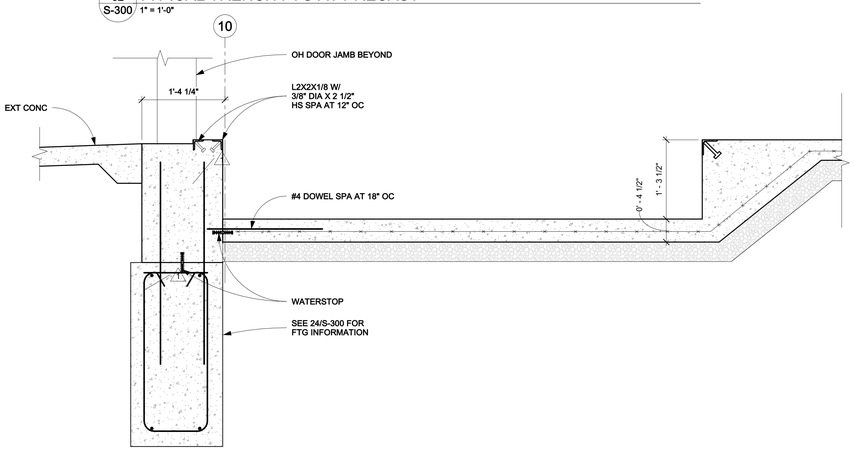
33 S-300 TYP GRADE BEAM AT STOREFRONT / GLAZING 1" = 1'-0"



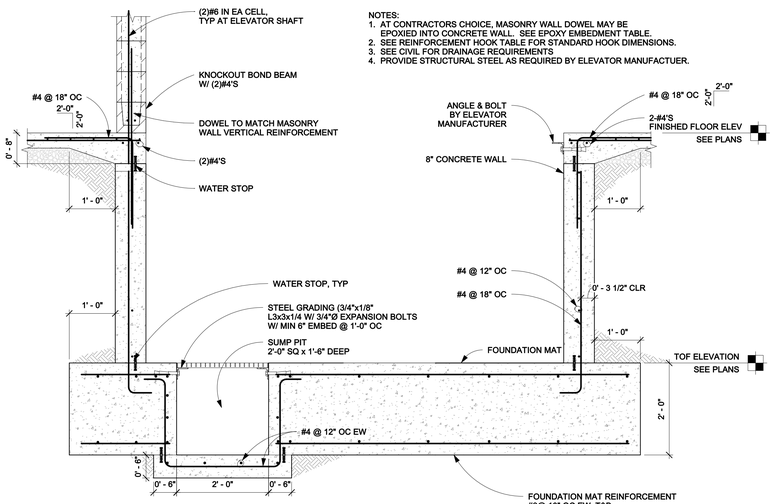
34 S-300 TYPICAL SPREAD FOOTING DETAIL 3/4" = 1'-0"



31 S-300 PILASTER DETAIL 1" = 1'-0"

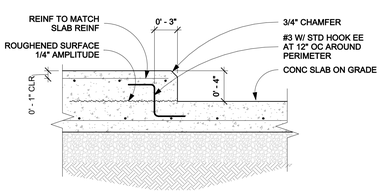


32 S-300 TYPICAL TRENCH FTG AT PRECAST 1" = 1'-0"



NOTES:
1. AT CONTRACTORS CHOICE, MASONRY WALL DOWEL MAY BE EPOXIED INTO CONCRETE WALL. SEE EPOXY EMBEDMENT TABLE.
2. SEE REINFORCEMENT HOOK TABLE FOR STANDARD HOOK DIMENSIONS.
3. SEE CIVIL FOR DRAINAGE REQUIREMENTS
4. PROVIDE STRUCTURAL STEEL AS REQUIRED BY ELEVATOR MANUFACTUER.

44 S-300 TYPICAL ELEVATOR PIT DETAIL 3/4" = 1'-0"



41 S-300 HOUSEKEEPING PAD DETAIL 1 1/2" = 1'-0"

42 S-300 LEVELER AT OH DOOR 1" = 1'-0"

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Development Services Department
Lee's Summit, Missouri
09/19/2025

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JOINT OPERATIONS

PACKAGE 1: SITE AND STRUCTURE

LEE'S SUMMIT JOINT OPS CENTER

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

REVISION DATES:

1	ADDENDUM #1	9/19/24
2	ADDENDUM #2	10/30/24

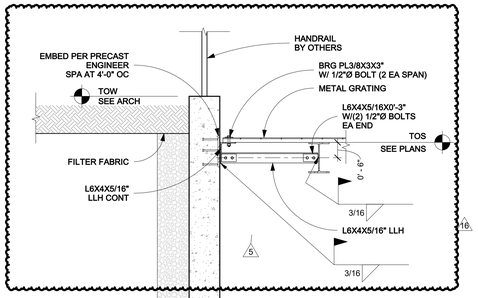
STATE OF MISSOURI
KIMBERLY EBERT JONES
PE-2005020615
PROFESSIONAL ENGINEER
10/30/24

PROFESSIONAL SEAL

S-300

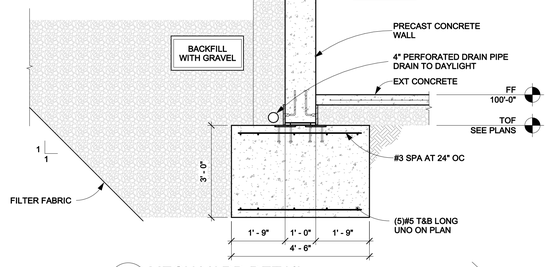
ISSUE DATE: AUGUST 29, 2024
HOEFER WELKER #: 138161

FOUNDATION DETAILS

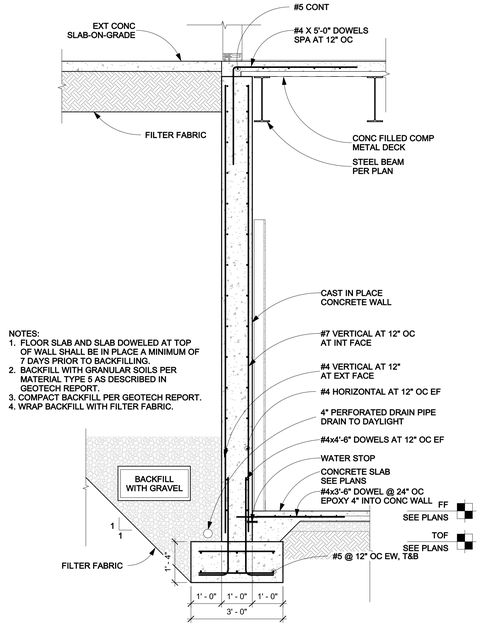


NOTES:
1. FLOOR SLAB AND SLAB DOWELED AT TOP OF WALL SHALL BE IN PLACE A MINIMUM OF 7 DAYS PRIOR TO BACKFILLING.
2. BACKFILL WITH GRANULAR SOILS PER MATERIAL TYPE 5 AS DESCRIBED IN GEOTECH REPORT.
3. COMPACT BACKFILL PER GEOTECH REPORT.
4. WRAP BACKFILL WITH FILTER FABRIC.
5. 56 PCF X HEIGHT EARTH LOADING

SEE 14/S-301
FOR INFO
NOT SHOWN
1

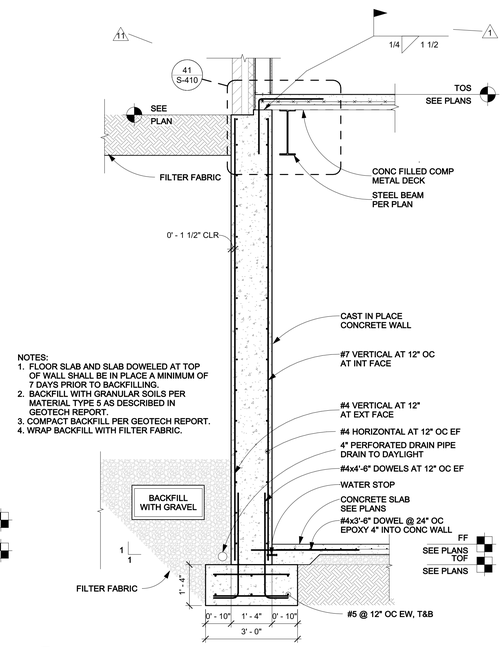


21 S-301 MECH YARD DETAIL
1/2" = 1'-0"



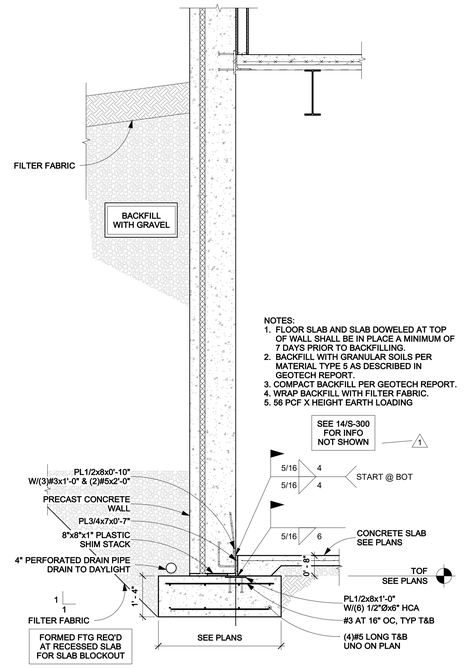
NOTES:
1. FLOOR SLAB AND SLAB DOWELED AT TOP OF WALL SHALL BE IN PLACE A MINIMUM OF 7 DAYS PRIOR TO BACKFILLING.
2. BACKFILL WITH GRANULAR SOILS PER MATERIAL TYPE 5 AS DESCRIBED IN GEOTECH REPORT.
3. COMPACT BACKFILL PER GEOTECH REPORT.
4. WRAP BACKFILL WITH FILTER FABRIC.

22 S-301 CONC BASEMENT WALL DETAIL
1/2" = 1'-0"

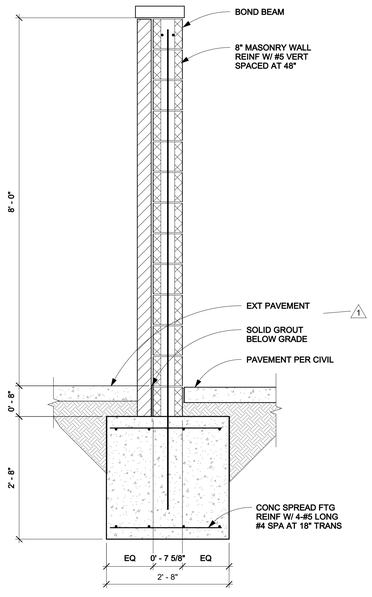


NOTES:
1. FLOOR SLAB AND SLAB DOWELED AT TOP OF WALL SHALL BE IN PLACE A MINIMUM OF 7 DAYS PRIOR TO BACKFILLING.
2. BACKFILL WITH GRANULAR SOILS PER MATERIAL TYPE 5 AS DESCRIBED IN GEOTECH REPORT.
3. COMPACT BACKFILL PER GEOTECH REPORT.
4. WRAP BACKFILL WITH FILTER FABRIC.

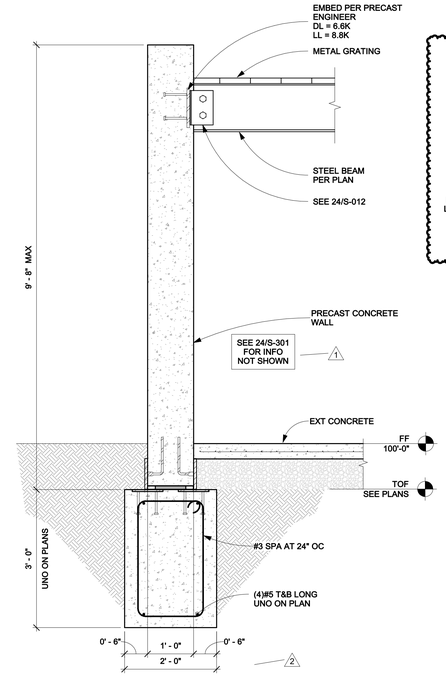
23 S-301 BASEMENT WALL WEST
1/2" = 1'-0"



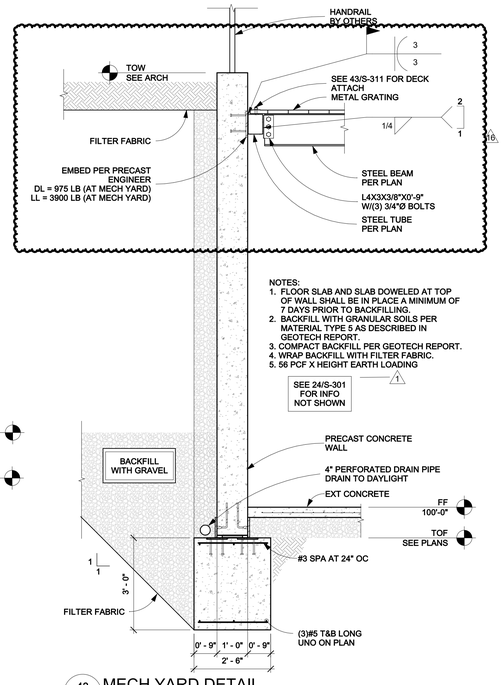
24 S-301 PRECAST BASEMENT WALL DETAIL
1/2" = 1'-0"



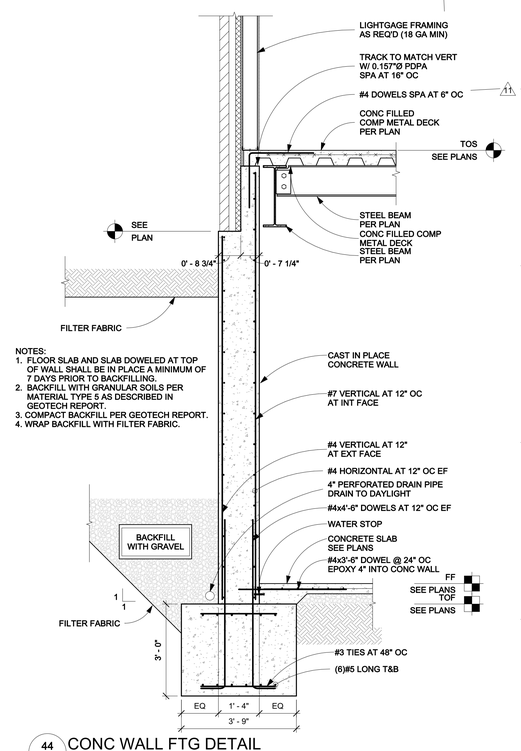
41 S-301 TYPICAL TRASH ENCLOSURE FTG DETAIL
3/4" = 1'-0"



42 S-301 PRECAST WALL DETAIL
3/4" = 1'-0"



43 S-301 MECH YARD DETAIL
1/2" = 1'-0"



44 S-301 CONC WALL FTG DETAIL
1/2" = 1'-0"

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LEE'S SUMMIT JOINT OPERATIONS

PACKAGE 1: SITE AND STRUCTURE

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

REVISION DATES:

1	ADDENDUM #1	9/19/24
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5	ASI #1	12/11/24
11	ASI #6	2/26/25
16	ASI #9	4/10/25

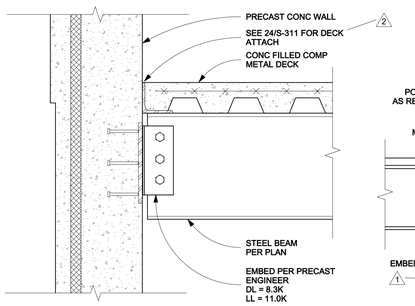
STATE OF MISSOURI
KIMBERLY
EBERT
JONES
PE-2005029619
PROFESSIONAL ENGINEER
4/11/25

PROFESSIONAL SEAL

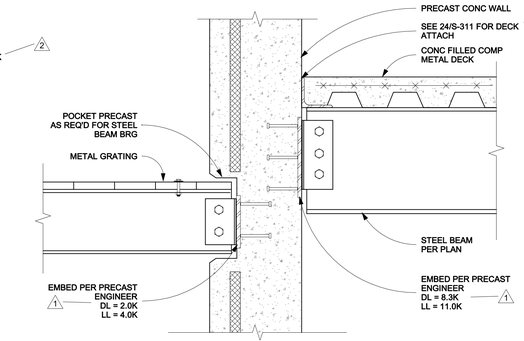
S-301

ISSUE DATE: AUGUST 29, 2024
HOEFER WELKER #: 138161

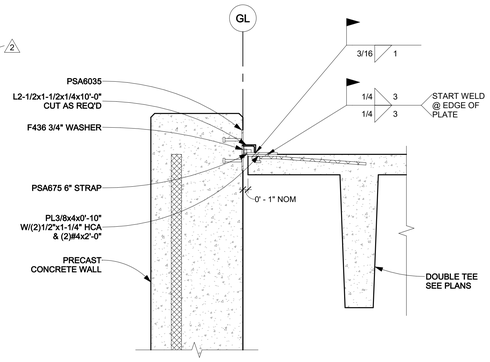
FOUNDATION WALL SECTIONS



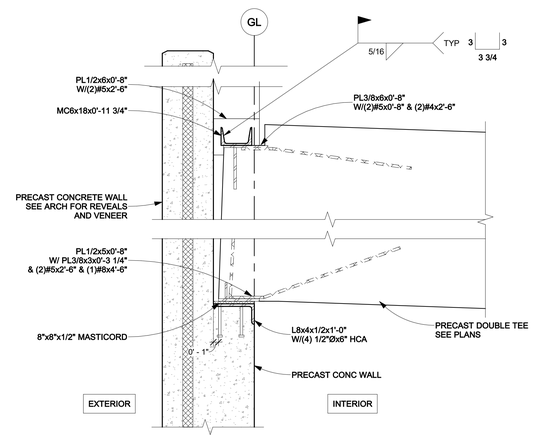
11 S-311 BEAM / PRECAST DETAIL
1" = 1'-0"



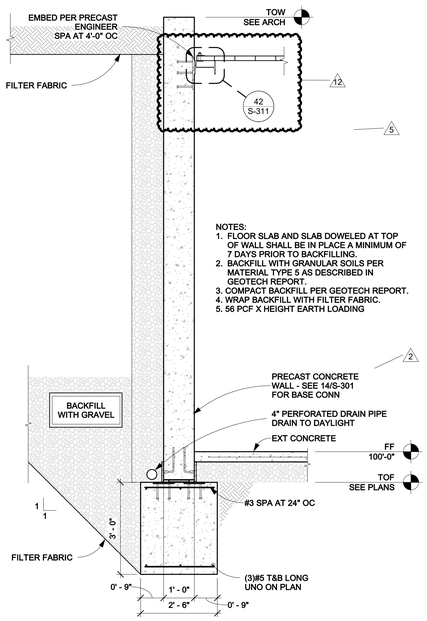
12 S-311 BM BRG AT MECH EXT PRECAST WALL
1" = 1'-0"



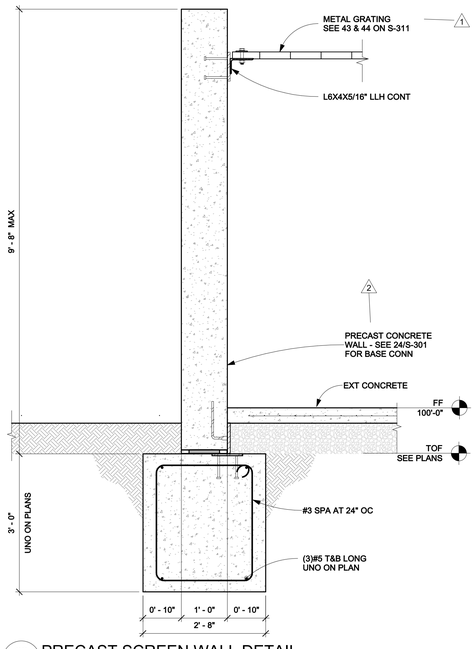
13 S-311 DOUBLE TEE AT CAST-IN-PLACE WALL
1" = 1'-0"



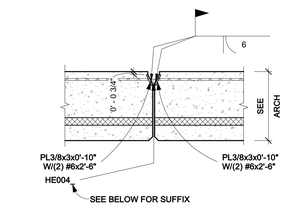
14 S-311 DOUBLE TEE BEARING AT PRECAST WALL
1" = 1'-0"



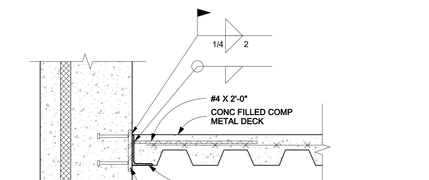
31 S-311 MECH YARD DETAIL
1/2" = 1'-0"



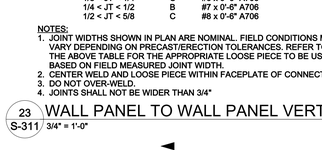
32 S-311 PRECAST SCREEN WALL DETAIL
3/4" = 1'-0"



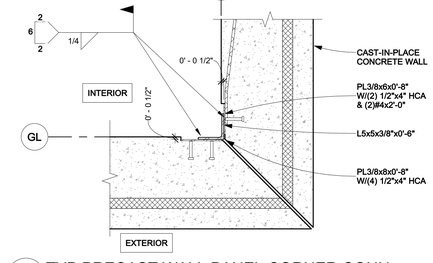
23 S-311 WALL PANEL TO WALL PANEL VERT CONN
3/4" = 1'-0"



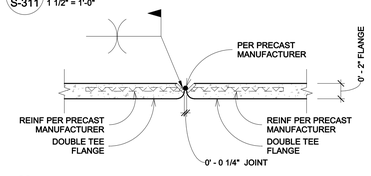
24 S-311 TYP FLOOR / PRECAST DETAIL
1" = 1'-0"



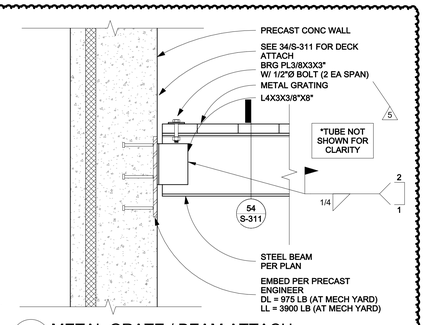
33 S-311 DBL TEE CHORD TIE CONNECTION
1 1/2" = 1'-0"



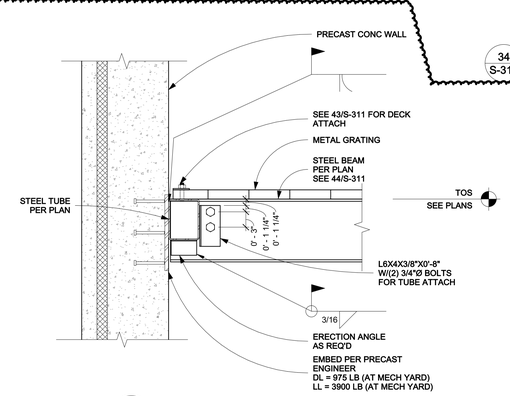
35 S-311 TYP PRECAST WALL PANEL CORNER CONN
1" = 1'-0"



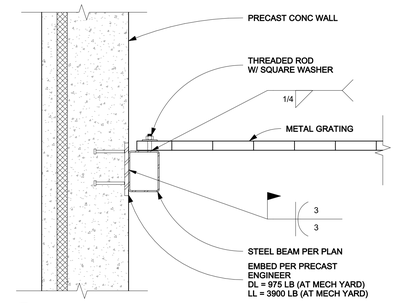
34 S-311 DBL TEE FLANGE TO FLANGE CONN
1 1/2" = 1'-0"



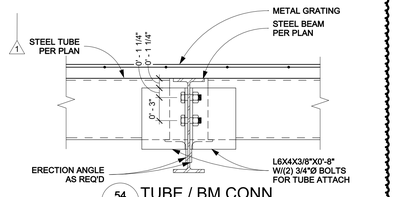
44 S-311 METAL GRATE / BEAM ATTACH
1" = 1'-0"



42 S-311 TUBE AT MECH YARD
1" = 1'-0"



43 S-311 TYP METAL GRATE BRG DETAIL
1" = 1'-0"



54 S-311 TUBE / BM CONN
1 1/2" = 1'-0"

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09/19/2025

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LEE'S SUMMIT JOINT OPERATIONS

PACKAGE 1: SITE AND STRUCTURE

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

REVISION DATES:

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7	ASI #4	2/12/2025
12	MECH YARD	4/1/25
16	ASI #9	4/10/25

STATE OF MISSOURI
KIMBERLY EBERT JONES
PE-2005029619
PROFESSIONAL ENGINEER
4/11/25

PROFESSIONAL SEAL

S-311

ISSUE DATE: AUGUST 29, 2024
HOEFER WELKER #: 138161

PRECAST CONCRETE DETAILS

RELEASED FOR CONSTRUCTION
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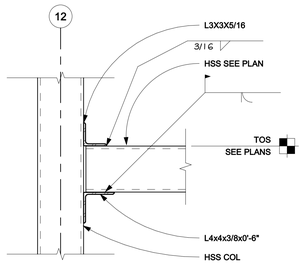
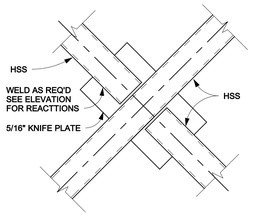
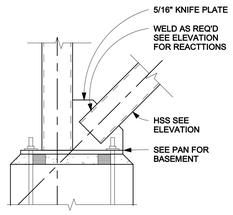
Lee's Summit, Missouri
09/19/2025



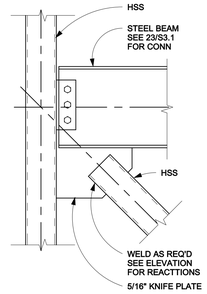
11 S-410 TUBE TO TUBE CONNECTION
1 1/2" = 1'-0"



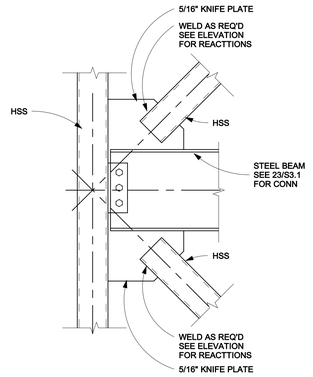
12 S-410 TYP BRACE AT INTERSECTION
1" = 1'-0"



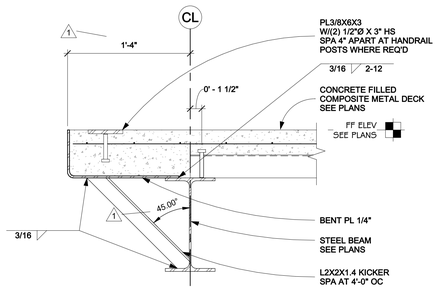
13 S-410 TYP BRACE AT FOUNDATION
1" = 1'-0"



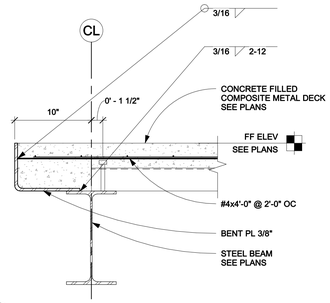
14 S-410 TYP BRACE DETAIL AT ROOF
1" = 1'-0"



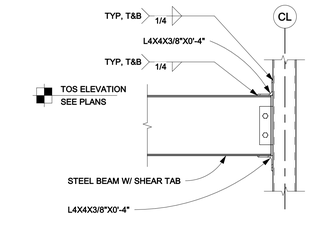
15 S-410 TYP BRACE DETAIL AT BEAM
1" = 1'-0"



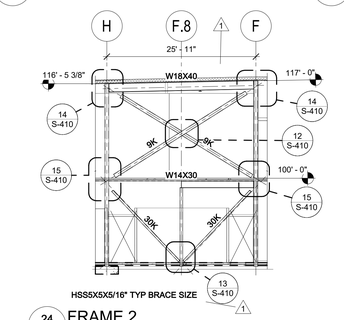
21 S-410 TYPICAL COMP SLAB EDGE DETAIL
1 1/2" = 1'-0"



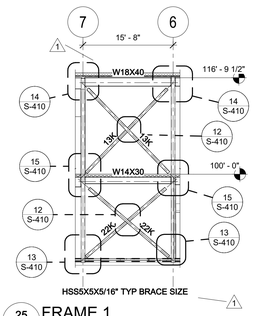
22 S-410 COMP SLAB EDGE BEARING
1 1/2" = 1'-0"



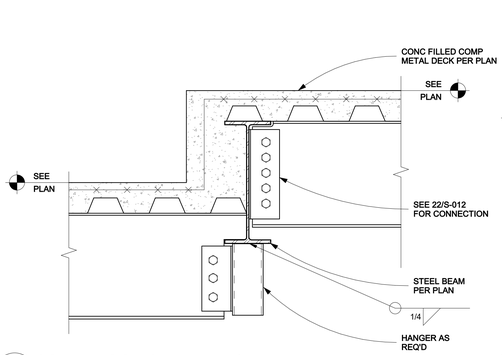
23 S-410 MOMENT CONNECTION
3/4" = 1'-0"



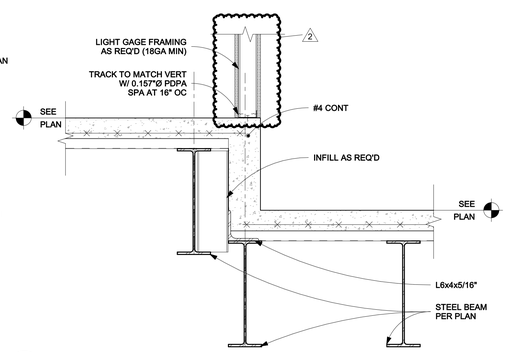
24 S-410 FRAME 2
3/32" = 1'-0"



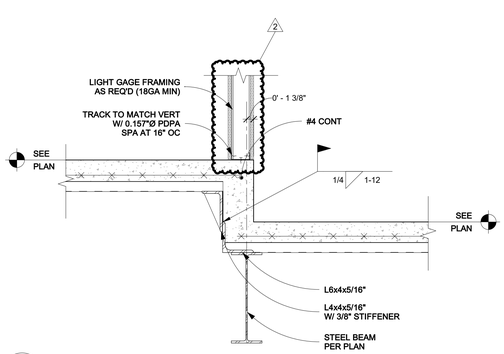
25 S-410 FRAME 1
3/32" = 1'-0"



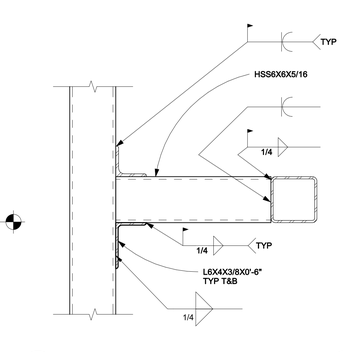
31 S-410 COMP FLOOR STEP DETAIL
1" = 1'-0"



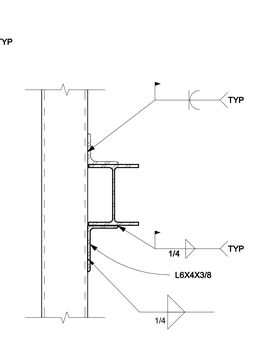
32 S-410 COMP FLOOR STEP DETAIL
1" = 1'-0"



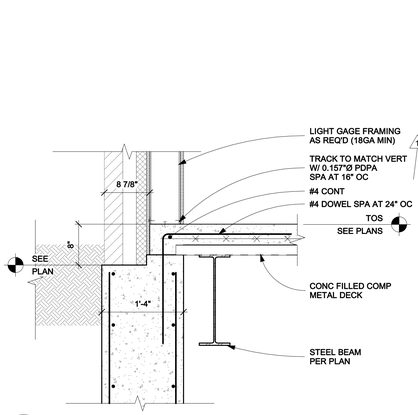
33 S-410 COMP FLOOR STEP DETAIL
1" = 1'-0"



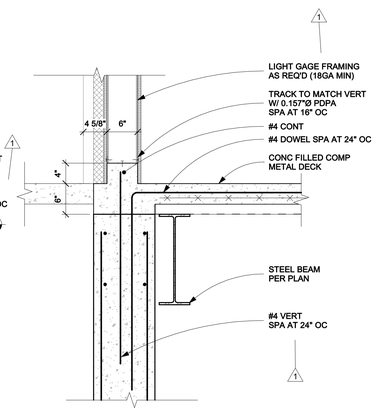
34 S-410 WIND BEAM ATTACHMENT
1 1/2" = 1'-0"



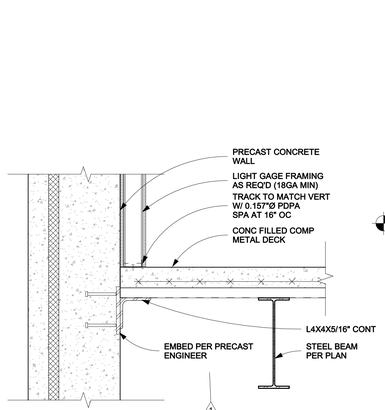
35 S-410 TUBE / COL DETAIL
1 1/2" = 1'-0"



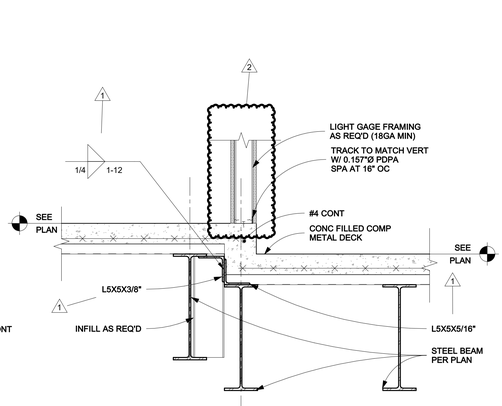
41 S-410 FLOOR / DECK BRG DETAIL
1" = 1'-0"



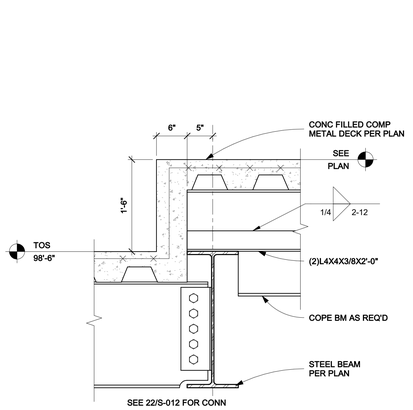
42 S-410 SLAB / CONC WALL DETAIL
1" = 1'-0"



43 S-410 DECK / PRECAST CONN
1" = 1'-0"



44 S-410 COMP FLOOR STEP DETAIL
1" = 1'-0"



45 S-410 COMP FLOOR STEP DETAIL
1" = 1'-0"

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LEE'S SUMMIT JOINT OPERATIONS

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LEE'S SUMMIT, MISSOURI 64086

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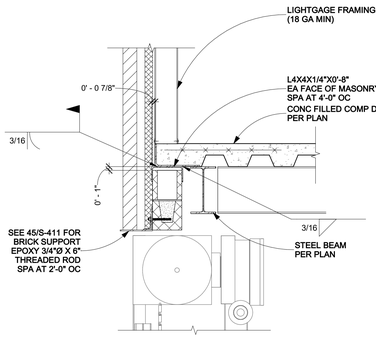
STATE OF MISSOURI
KIMBERLY EBERT JONES
PE-2005029615
PROFESSIONAL ENGINEER
10/30/24

PROFESSIONAL SEAL

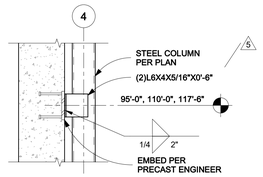
S-410

ISSUE DATE: AUGUST 29, 2024
HOEFER WELKER #: 138161

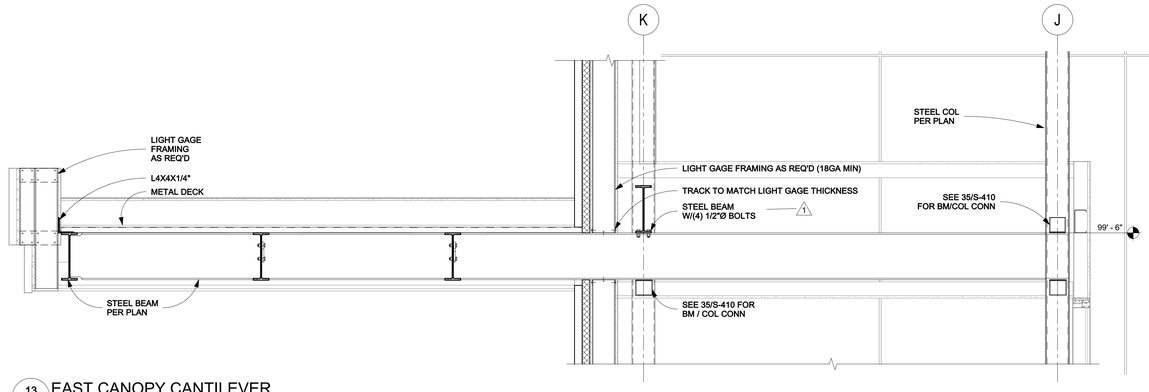
FRAMING DETAILS



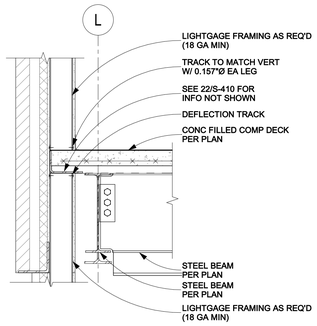
11 OH DOOR AT DECK BRG
S-411 3/4" = 1'-0"



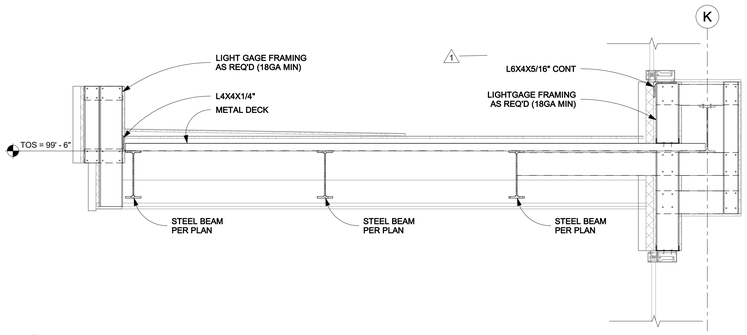
12 COLUMN BRACE AT PRECAST
S-411 3/4" = 1'-0"



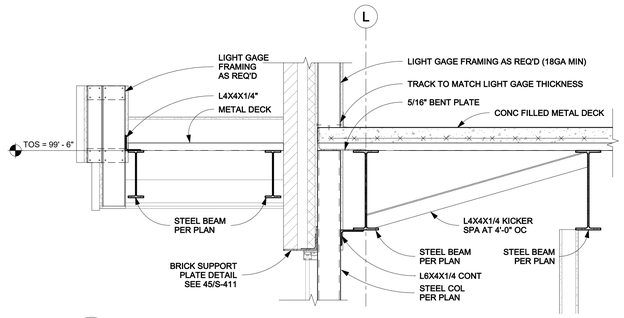
13 EAST CANOPY CANTILEVER
S-411 3/4" = 1'-0"



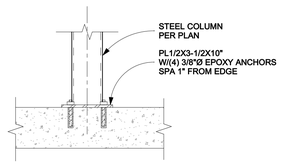
21 DECK EDGE AT LIGHTGAGE
S-411 3/4" = 1'-0"



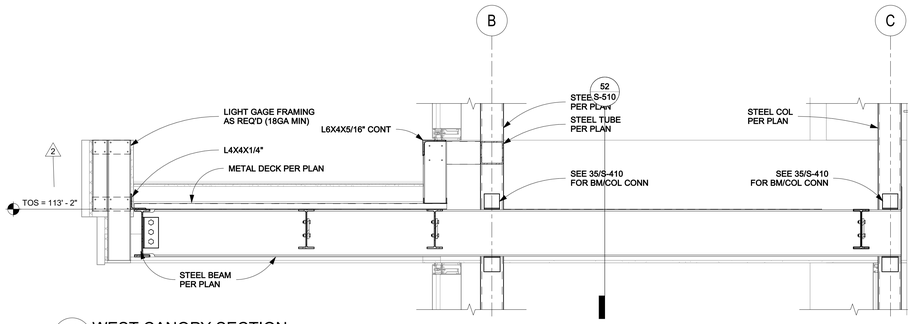
22 EAST CANOPY SECTION
S-411 3/4" = 1'-0"



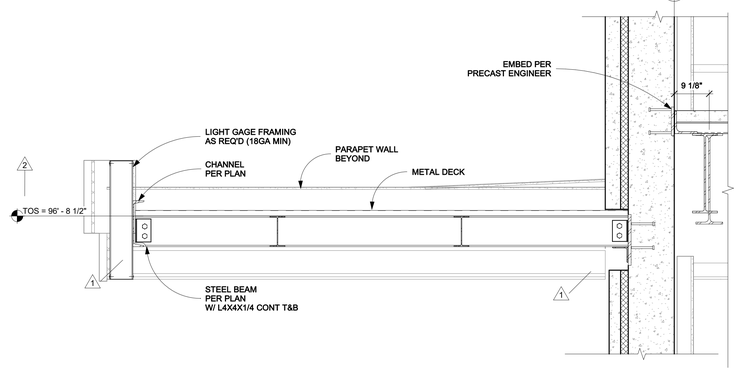
24 EAST CANOPY SECTION
S-411 3/4" = 1'-0"



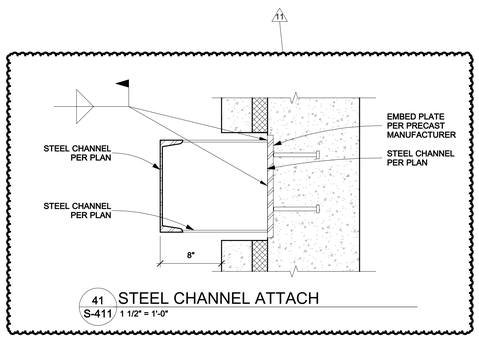
31 OP COL DETAIL
S-411 1" = 1'-0"



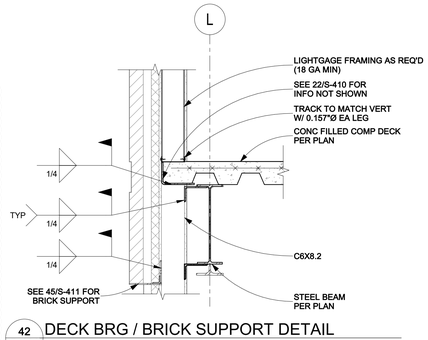
32 WEST CANOPY SECTION
S-411 3/4" = 1'-0"



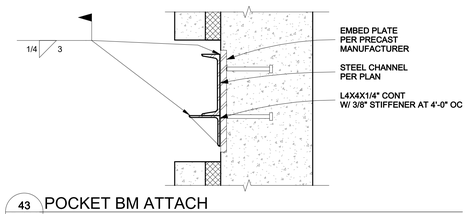
34 PATIO CANOPY SECTION
S-411 3/4" = 1'-0"



41 STEEL CHANNEL ATTACH
S-411 1 1/2" = 1'-0"



42 DECK BRG / BRICK SUPPORT DETAIL
S-411 3/4" = 1'-0"



43 POCKET BM ATTACH
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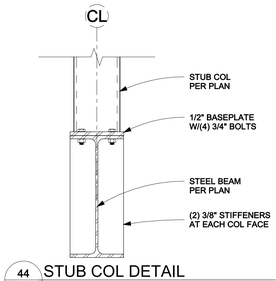
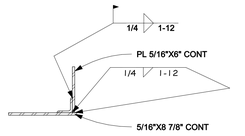


44 STUB COL DETAIL
S-411 1 1/2" = 1'-0"



45 BRICK SUPPORT PLATE DETAIL
S-411 1 1/2" = 1'-0"

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
09/19/2025

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LEE'S SUMMIT JOINT OPERATIONS

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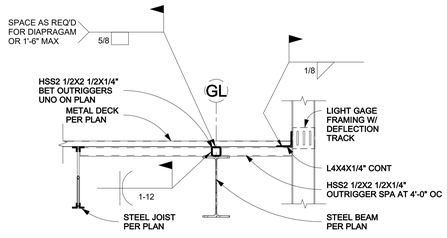
5	ASI #1	12/11/24
11	ASI #6	2/26/25

STATE OF MISSOURI
KIMBERLY EBERT JONES
PE-2005029619
PROFESSIONAL ENGINEER
3/9/25
PROFESSIONAL SEAL

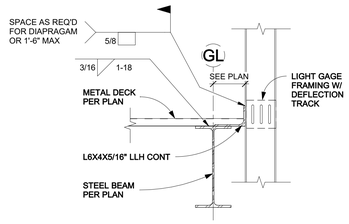
S-411

ISSUE DATE: AUGUST 29, 2024
HOEFER WELKER #: 138161

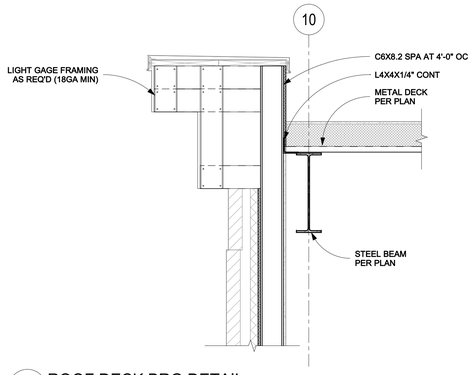
FLOOR FRAMING DETAILS



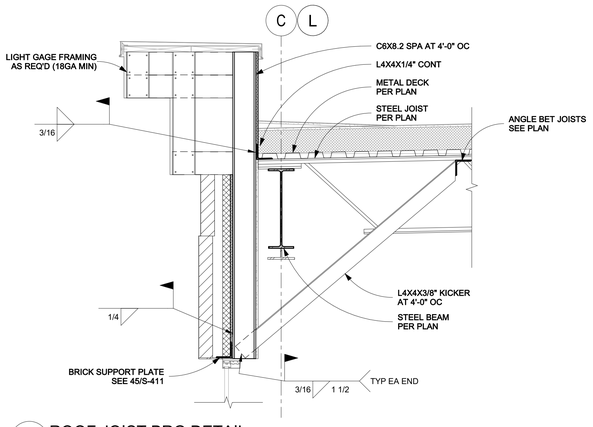
11 S-510 TYP OUTRIGGER DETAIL
3/4" = 1'-0"



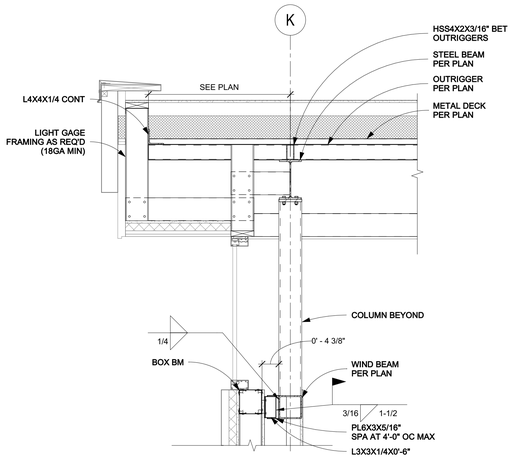
12 S-510 TYP DECK SUPPORT SECTION
1" = 1'-0"



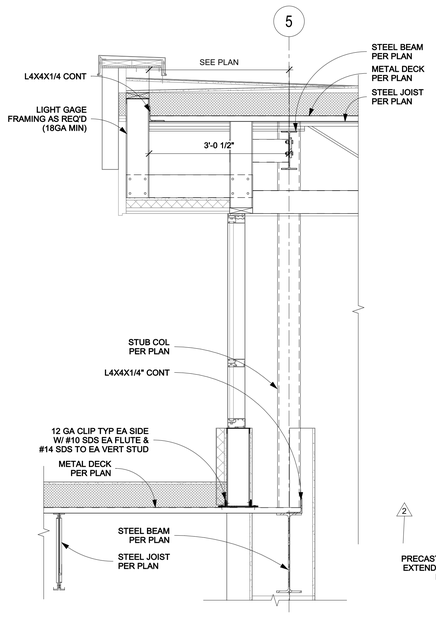
13 S-510 ROOF DECK BRG DETAIL
3/4" = 1'-0"



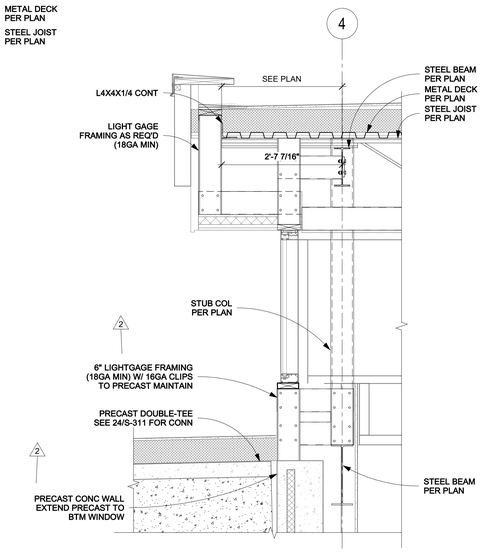
14 S-510 ROOF JOIST BRG DETAIL
3/4" = 1'-0"



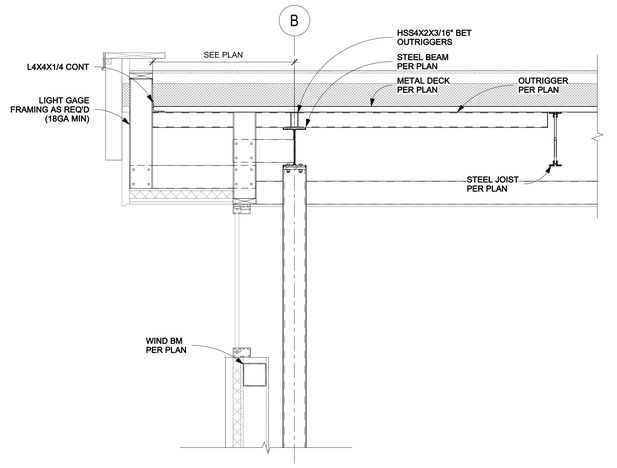
31 S-510 CLERESTORY PLAN EAST
3/4" = 1'-0"



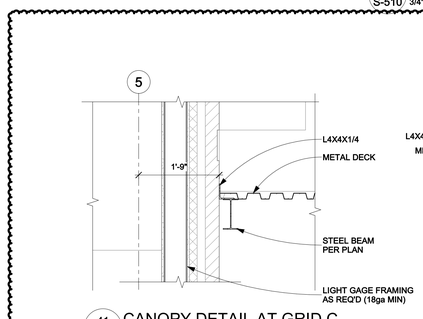
32 S-510 CLERESTORY PLAN NORTH
3/4" = 1'-0"



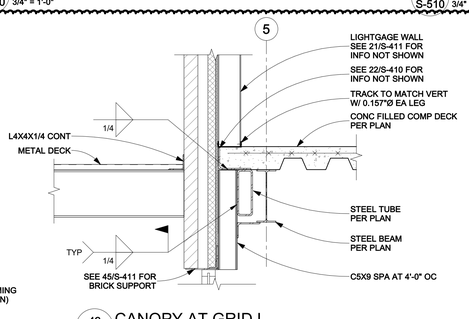
33 S-510 CLERESTORY PLAN SOUTH
3/4" = 1'-0"



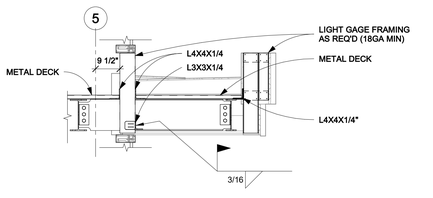
34 S-510 CLERESTORY PLAN WEST
3/4" = 1'-0"



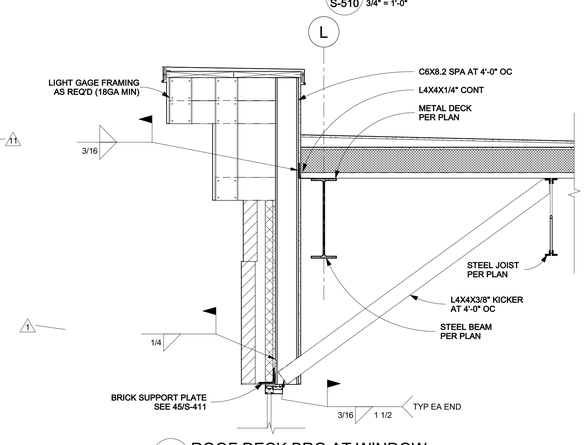
41 S-510 CANOPY DETAIL AT GRID C
3/4" = 1'-0"



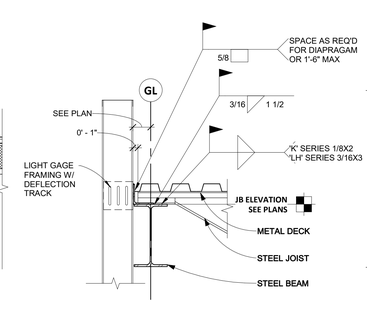
42 S-510 CANOPY AT GRID L
3/4" = 1'-0"



52 S-510 CANOPY AT GRID 5
1/2" = 1'-0"



43 S-510 ROOF DECK BRG AT WINDOW
3/4" = 1'-0"



44 S-510 TYP JOIST BRG AT LIGHT GAGE
1" = 1'-0"

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Development Services Department
Lee's Summit, Missouri
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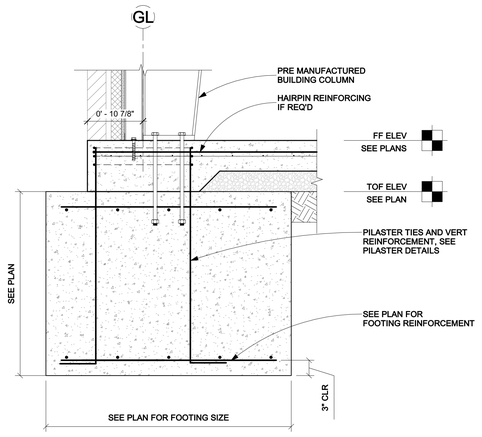
3/9/25

PROFESSIONAL SEAL

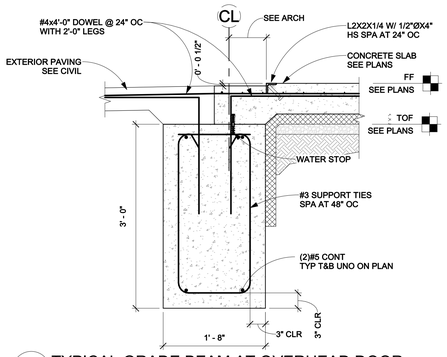
S-510

ISSUE DATE: AUGUST 29, 2024
HOEFER WELKER #: 138161

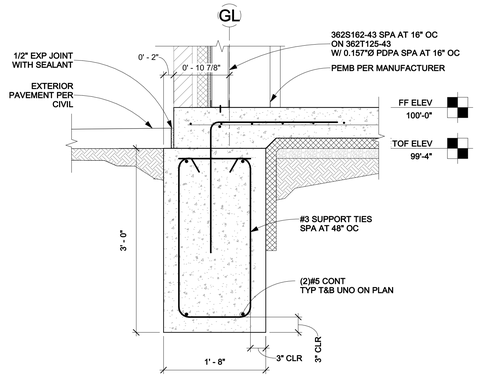
ROOF FRAMING DETAILS



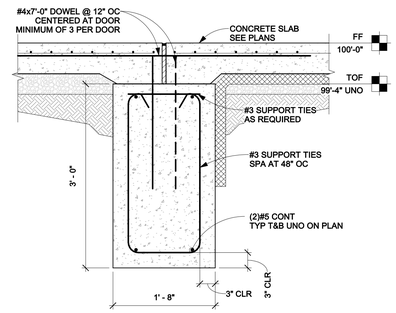
11 S-511 VEHICLE BUILDING PILASTER
1" = 1'-0"



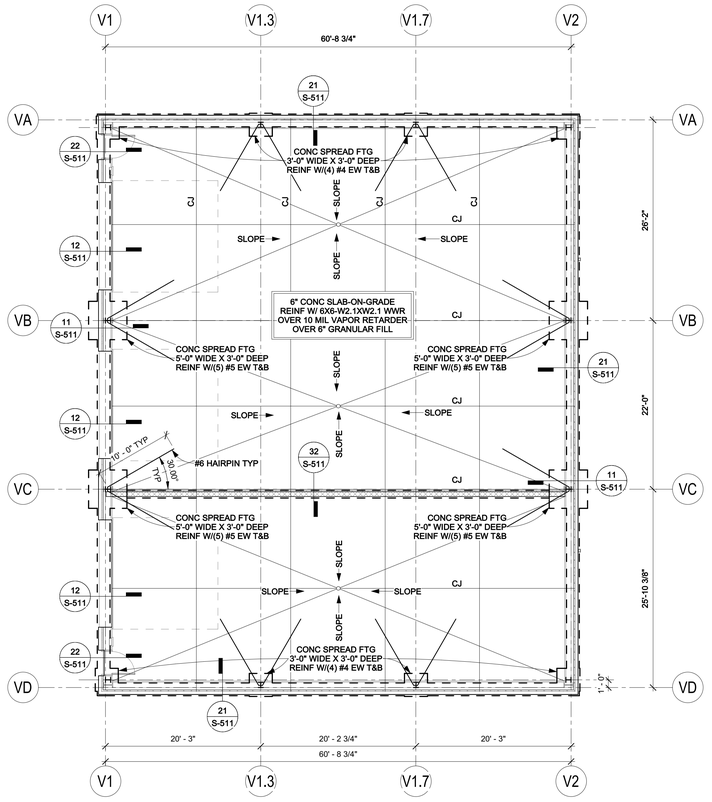
12 S-511 TYPICAL GRADE BEAM AT OVERHEAD DOOR
1" = 1'-0"



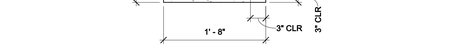
21 S-511 TYPICAL FOOTING DETAIL
1" = 1'-0"



22 S-511 TYP GRADE BEAM AT MAN DOOR
1" = 1'-0"

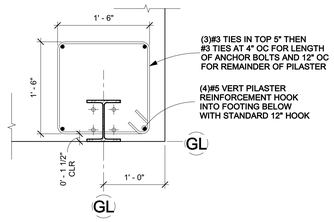


VEHICLE BUILDING FOUNDATION PLAN
1/8" = 1'-0"

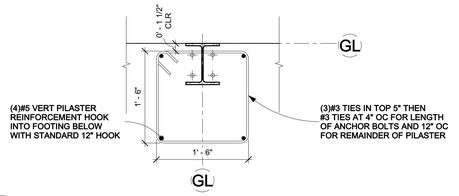


NOTE:
CONTRACTOR HAS THE OPTION TO EPOXY DOWELS INTO THICKENED SLAB AS AN ALTERNATIVE TO HOOKED DOWELS. SEE EPOXY EMBEDMENT TABLE.

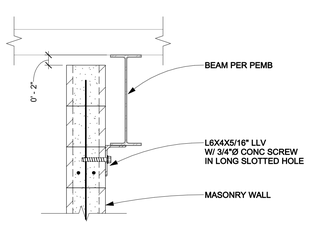
32 S-511 THICKENED SLAB DETAIL
3/4" = 1'-0"



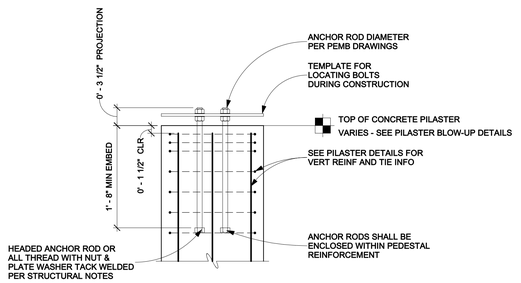
33 S-511 TYPICAL PILASTER AT CORNER DETAIL
1" = 1'-0"



34 S-511 TYPICAL PILASTER DETAIL
1" = 1'-0"



43 S-511 TOP OF MASONRY WALL
1" = 1'-0"



44 S-511 TYPICAL ANCHOR BOLT DETAIL
1" = 1'-0"

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
09/19/2025

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Overland Park, KS 66223
www.jsstructuralengineers.com
MO COA: 2009009344

LEE'S SUMMIT JOINT OPERATIONS

PACKAGE 2:
CONSTRUCTION SET

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

REVISION DATES:

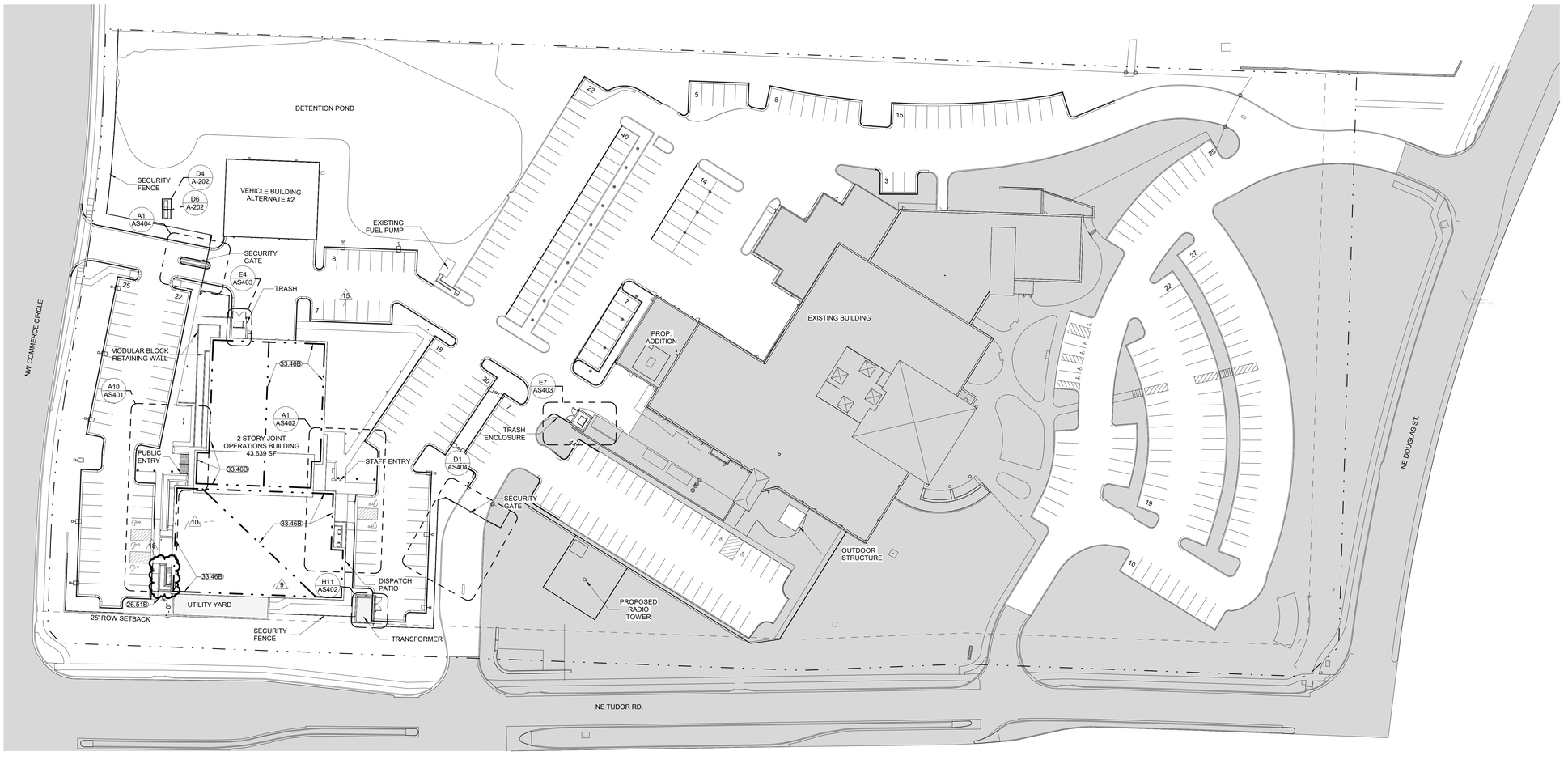
PROFESSIONAL SEAL

S-511

ISSUE DATE: AUGUST 29, 2024
HOEFER WELKER #: 138161

VEHICLE BUILDING PLAN AND DETAILS

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
09/18/2025



A1 ARCHITECTURAL SITE PLAN
1" = 40'-0"

NORTH

GENERAL NOTES - ARCHITECTURAL SITE:

1. RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. ARCHITECTURAL ELEVATION 100'-0" = CIVIL ELEVATION 1024.67'.
3. ALL SIDEWALKS SHALL SLOPE 1/4 INCH PER FOOT AWAY FROM THE BUILDING, UNLESS NOTED OTHERWISE.
4. ALL GRADES SHALL SLOPE AWAY FROM THE BUILDING AT 5 PERCENT FOR THE FIRST 10 FT.
5. LOCATIONS AND SIZES OF ALL CONCRETE MECHANICAL AND ELECTRICAL PADS SHALL BE COORDINATED BY THE MECHANICAL AND ELECTRICAL CONTRACTORS, WITH THE SELECTED EQUIPMENT MANUFACTURER / SUPPLIER; AND ARE TO BE APPROVED BY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.

SITE LEGEND

- AREA NOT IN SCOPE
- PROPERTY LINE

MATERIAL KEYNOTES

26.51B	EXTERIOR LIGHT FIXTURE RE: ELECTRICAL
33.46B	FOUNDATION DRAINAGE - 4" HDPE PERFERATED PIPE WRAPPED IN FILTER FABRIC

15

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LEE'S SUMMIT JOINT OPERATIONS FACILITY

PACKAGE 2: CONSTRUCTION SET

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

REVISION DATES:

9	CCD 001	1/29/2025
10	CCD 002	1/24/2025
15	ASI 008	3/10/2025
18	CCD 003	5/5/2025

STATE OF MISSOURI
CHRISTOPHER KRUMREI
NUMBER A-2016011211
ARCHITECT

PROFESSIONAL SEAL

AS101

ISSUE DATE: DECEMBER 20, 2024
HOEFER WELKER #: 138191

SITE PLAN

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As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
09/18/2025

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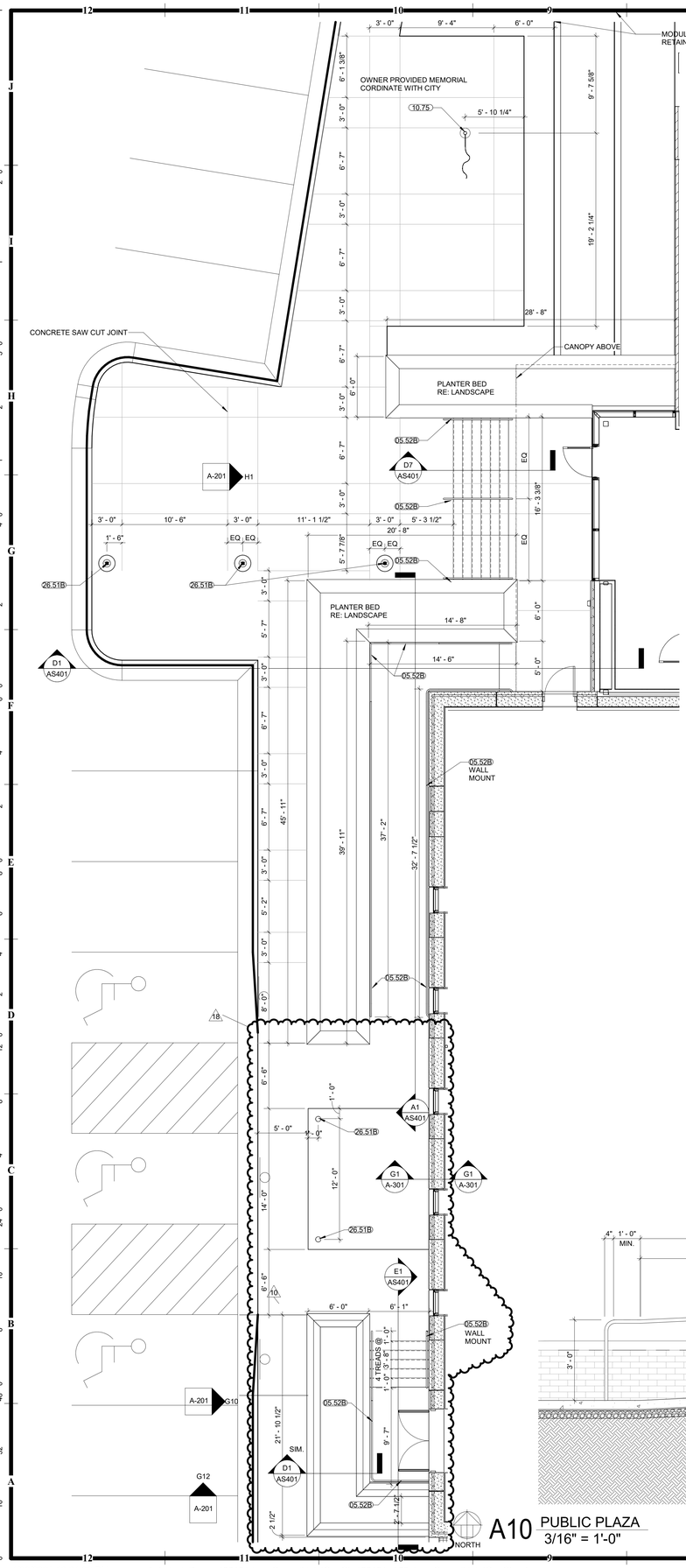
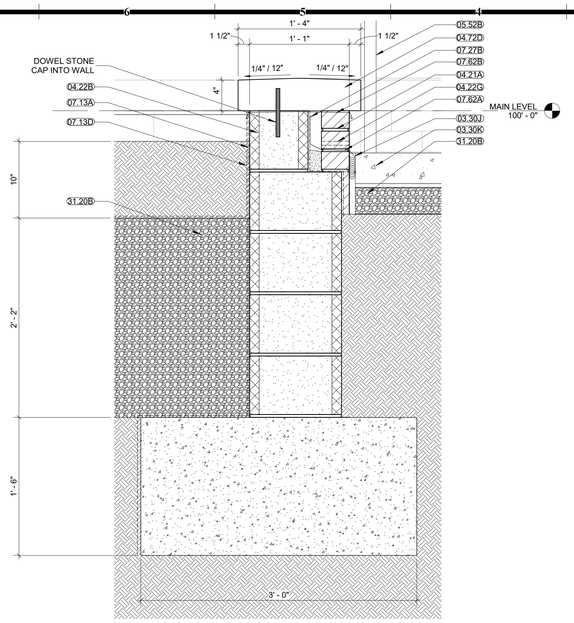
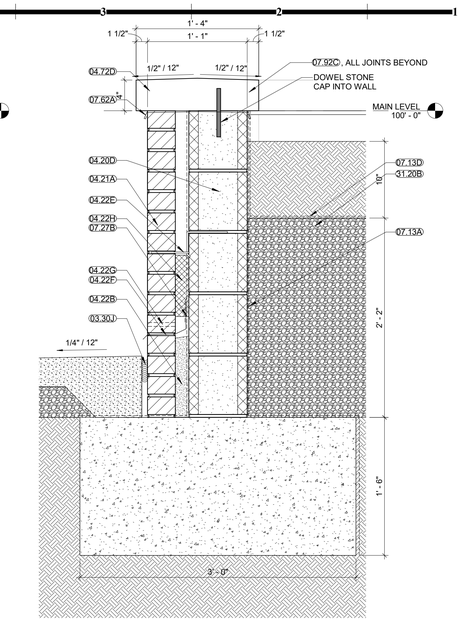


A10 PUBLIC PLAZA
3/16" = 1'-0"

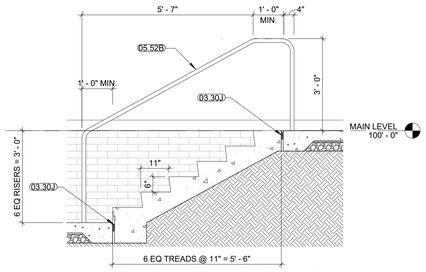


G5 PLANTER SECTION @ RAMP
1 1/2" = 1'-0"

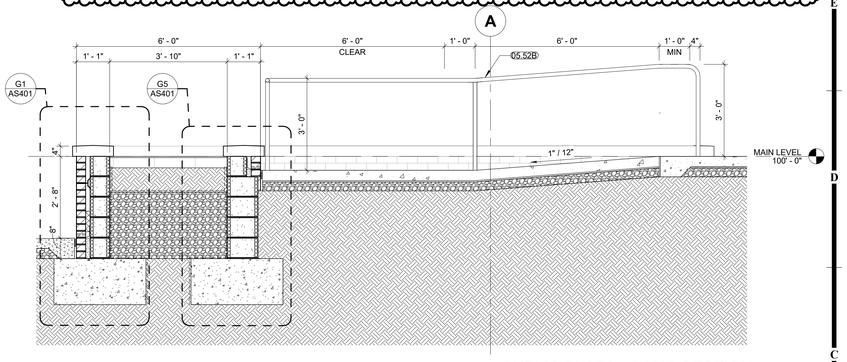


G1 PLANTER SECTION
1 1/2" = 1'-0"

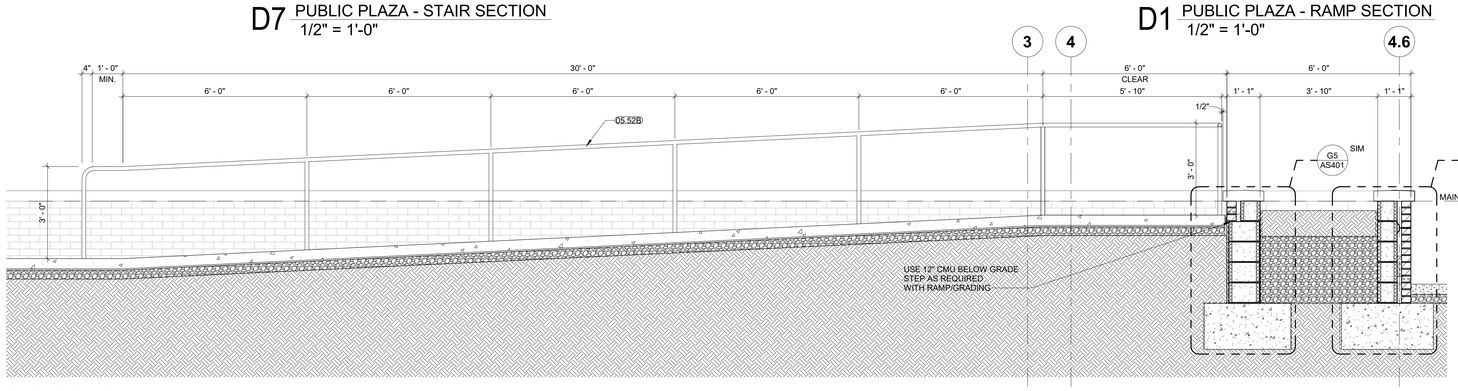
E1 EGRESS DOOR - STAIR SECTION
1/2" = 1'-0"



D7 PUBLIC PLAZA - STAIR SECTION
1/2" = 1'-0"



D1 PUBLIC PLAZA - RAMP SECTION
1/2" = 1'-0"



A1 PUBLIC PLAZA - RAMP SECTION
1/2" = 1'-0"

GENERAL NOTES - ARCHITECTURAL SITE:

1. RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. ARCHITECTURAL ELEVATION 100'-0" = CIVIL ELEVATION 1024.67'.
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MATERIAL KEYNOTES

03.30J	1/2-INCH COMPRESSIBLE JOINT FILLER (HOLD DOWN TOP 1/2-INCH - FILL W/ SEALANT.)
03.30K	UNDER-SLAB VAPOR RETARDER
04.20D	CONCRETE MASONRY UNIT (CMU) - 7 5/8 INCH
04.21A	FACE BRICK
04.22B	GROUT SOLID - MASONRY CELLS
04.22E	TIES AND ANCHORS
04.22F	THROUGH-WALL MEMBRANE FLASHING WITH METAL DRIP EDGE
04.22G	WEEP VENTS @ 24-INCH O.C.
04.22H	CAVITY DRAINAGE MATERIAL (MORTAR NET)
04.72D	CAST STONE WALL CAP
05.52B	STAINLESS STEEL PIPE/ TUBE RAILING
07.11A	BITUMINOUS DAMPROOFING
07.13A	SELF-ADHEARING SHEET WATERPROOFING MEMBRANE
07.13D	FILTER FABRIC
07.27B	FLUID-APPLIED MEMBRANE AIR BARRIER
07.62A	PREFINISHED SHEET METAL FLASHING
07.62B	PREFINISHED METAL SILL FLASHING
07.92C	BACKER ROD AND SEALANT
10.75	FLAGPOLE
26.51B	EXTERIOR LIGHT FIXTURE RE: ELECTRICAL
31.20B	GRANULAR FILL

LEE'S SUMMIT JOINT OPERATIONS FACILITY

PACKAGE 2: CONSTRUCTION SET

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

REVISION DATES:

10	CCD 002	1/24/2025
18	CCD 003	5/5/2025

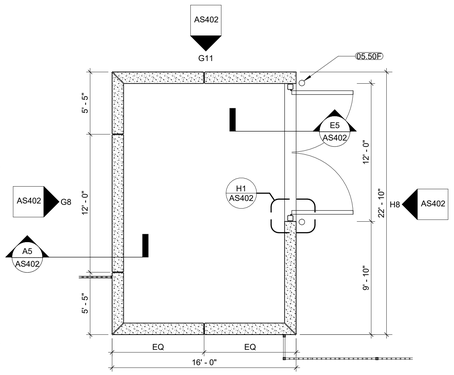
STATE OF MISSOURI
CHRISTOPHER KRUMREI
NUMBER A-2016013211
ARCHITECT
5/5/25

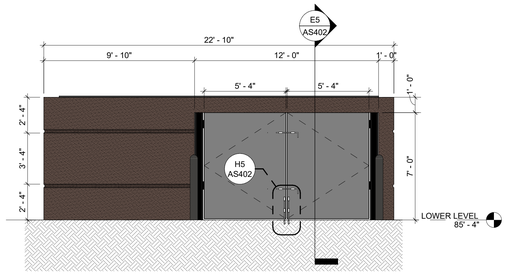
PROFESSIONAL SEAL

AS401

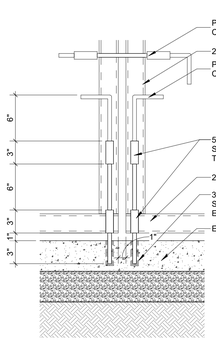
ISSUE DATE: DECEMBER 20, 2024
HOEFER WELKER #: 138191

SITE DETAILS

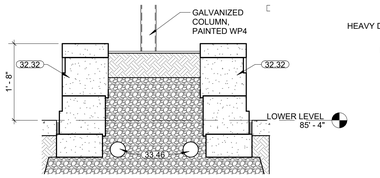




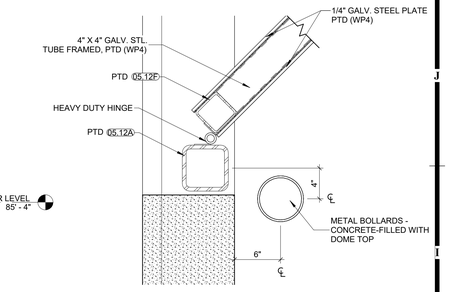
H8 TRANSFORMER ENCLOSURE - EAST
1/4" = 1'-0"



H5 GATE CLOSURE DETAIL @ TRANSFORMER
1 1/2" = 1'-0"



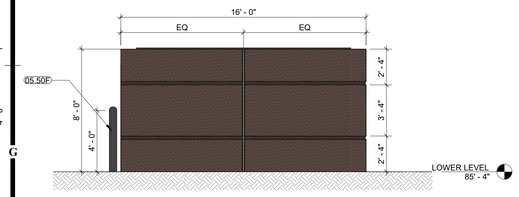
H3 MODULAR BLOCK
3/4" = 1'-0"

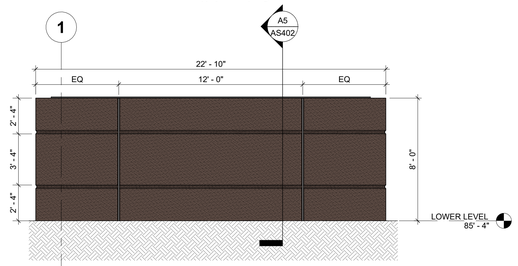


H1 HEAVY DUTY GATE JAMB @ TRANSFORMER
1 1/2" = 1'-0"

NORTH

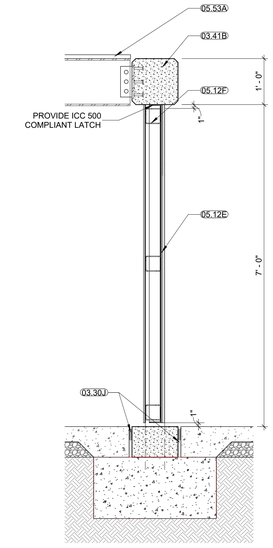
H11 TRANSFORMER ENCLOSURE
3/16" = 1'-0"

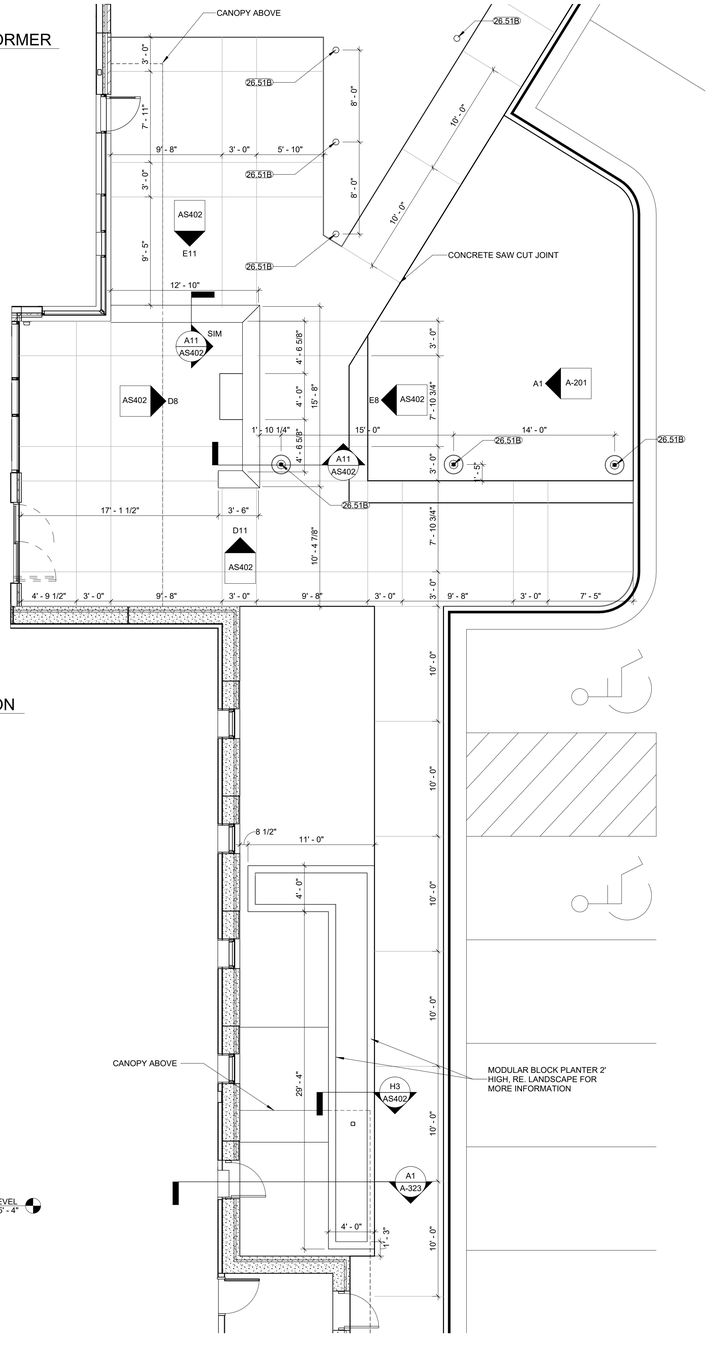


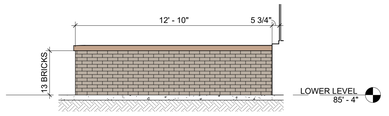


G11 TRANSFORMER ENCLOSURE - NORTH
1/4" = 1'-0"

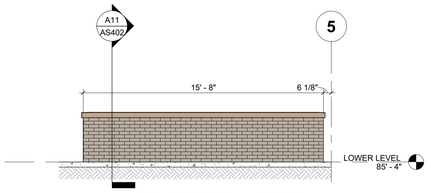
G8 TRANSFORMER ENCLOSURE - WEST
1/4" = 1'-0"



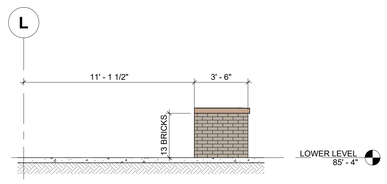




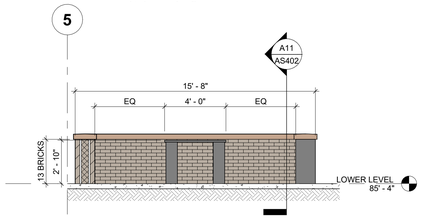
E11 STAFF ENTRY - NORTH
1/4" = 1'-0"



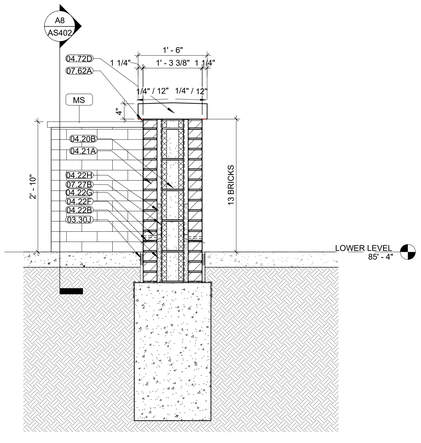
E8 STAFF ENTRY - EAST
1/4" = 1'-0"

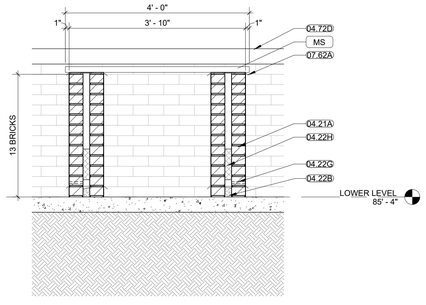


D11 STAFF ENTRY - SOUTH
1/4" = 1'-0"



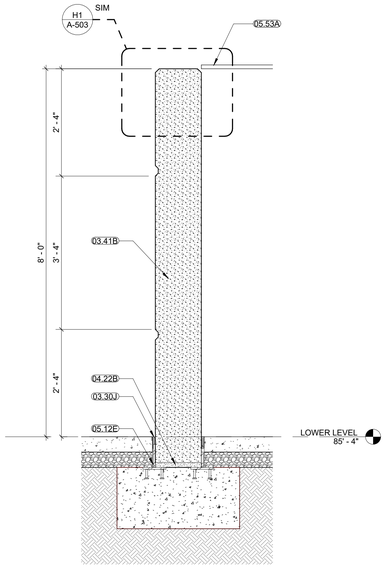
D8 STAFF ENTRY - WEST
1/4" = 1'-0"





A11 STAFF ENTRY - SECTION
3/4" = 1'-0"

A8 STAFF ENTRY - COUNTERTOP SECTION
3/4" = 1'-0"



E5 TRANSFORMER ENCLOSURE - GATE SECTION
3/4" = 1'-0"

NORTH

A1 STAFF PLAZA
3/16" = 1'-0"

A5 TRANSFORMER ENCLOSURE - SECTION
3/4" = 1'-0"

GENERAL NOTES - ARCHITECTURAL SITE:

1. RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. ARCHITECTURAL ELEVATION 100'-0" = CIVIL ELEVATION 1024.67'.
3. ALL SIDEWALKS SHALL SLOPE 1/4 INCH PER FOOT AWAY FROM THE BUILDING, UNLESS NOTED OTHERWISE.
4. ALL GRADES SHALL SLOPE AWAY FROM THE BUILDING AT 5 PERCENT FOR THE FIRST 10 FT.
5. LOCATIONS AND SIZES OF ALL CONCRETE MECHANICAL AND ELECTRICAL PADS SHALL BE COORDINATED BY THE MECHANICAL AND ELECTRICAL CONTRACTORS, WITH THE SELECTED EQUIPMENT MANUFACTURER / SUPPLIER; AND ARE TO BE APPROVED BY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.

GENERAL NOTES - EXTERIOR ELEVATIONS:

1. RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. DIMENSIONS SHOWN ON THE EXTERIOR ELEVATIONS ARE TO THE FACE OF EXTERIOR WALL, FACE OF MASONRY (FOM), FACE OF CONCRETE WALLS (FOC), AND COLUMN GRID LINES, UNLESS OTHERWISE NOTED OR INDICATED.
3. RE: THE WINDOW TYPES SHEET FOR ALL EXTERIOR WINDOW TYPES AND GLASS TYPES.
4. ALL EXPOSED STEEL INCLUDING COLUMNS AND LINTELS TO BE PAINTED WP4
5. ALL SEALANT JOINTS TO MATCH ADJACENT FINISH, TYP.
6. ALL EXTERIOR DOORS TO BE PAINTED WP4.
7. METAL COPINGS TO MATCH METAL PANEL.

GENERAL NOTES – EXTERIOR WALL SECTIONS/ DETAILS:

1. RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. RE: FLOOR PLANS, ROOF PLAN AND ELEVATIONS FOR SECTION CUT LOCATIONS.
3. ALL WINDOW AND DOOR OPENING DIMENSIONS ARE ROUGH OPENING DIMENSIONS, UNLESS NOTED OTHERWISE.
4. DIMENSIONS SHOWN ON THE WALL SECTIONS ARE TO THE FACE OF EXTERIOR WALL, FACE OF MASONRY (FOM), FACE OF CONCRETE WALLS (FOC), AND COLUMN GRID LINES, UNLESS NOTED OR SHOWN OTHERWISE.
5. PAINT ALL EXPOSED STEEL, INCLUDING STEEL LINTELS, ETC. (TYP.)

MATERIAL KEYNOTES

03.30J	1/2-INCH COMPRESSIBLE JOINT FILLER (HOLD DOWN TOP 1/2-INCH - FILL W/ SEALANT.)
03.41B	PRECAST CONCRETE WALL
04.20B	CONCRETE MASONRY UNIT (CMU) - 3 5/8 INCH
04.21A	FACE BRICK
04.22B	GROUT SOLID - MASONRY CELLS
04.22F	THROUGH-WALL MEMBRANE FLASHING WITH METAL DRIP EDGE
04.22G	WEEP VENTS @ 24-INCH O.C.
04.22H	CAVITY DRAINAGE MATERIAL (MORTAR NET)
04.72D	CAST STONE WALL CAP
05.12A	STEEL COLUMN
05.12E	STEEL PLATE
05.12F	STEEL TUBE
05.50F	METAL BOLLARDS - CONCRETE-FILLED WITH DOME TOP
05.53A	METAL GRATING
07.27B	FLUID-APPLIED MEMBRANE AIR BARRIER
07.62A	PREFINISHED SHEET METAL FLASHING
26.51B	EXTERIOR LIGHT FIXTURE RE: ELECTRICAL
32.32	SEGMENTAL RETAINING WALL
33.46	FOUNDATION DRAINAGE

EXTERIOR ELEVATION MATERIALS

- BRICK - RUNNING BOND - ENDICOTT- COLOR MEDIUM IRONSPOT 46 VELOUR
- BRICK - RUNNING BOND - INTERSTATE BRICK - COLOR ASH
- PRECAST PANEL, COLOR TAN, ACID ETCH FINISH (USE WHITE PORTALND CEMENT)
- PRECAST PANEL, COLOR MEDIUM BROWN, HEAVY RETARDANT FINISH
- PRECAST PANEL WITH COLOR TREATMENT, LIGHT SANDBLAST FINISH, COLOR NWW004 CHARCOAL
- IGU - BOD: VIRACON VRE26-38.
- COMPOSITE METAL PANEL, COLOR SUNSHINE GRAY
- MODULAR BLOCK RETAINING WALL

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
09/18/2025

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LEE'S SUMMIT JOINT OPERATIONS FACILITY

PACKAGE 2: CONSTRUCTION SET

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

REVISION DATES:

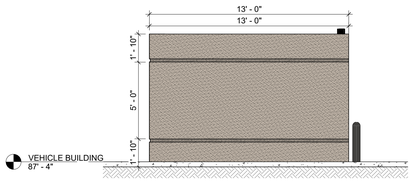
STATE OF MISSOURI
CHRISTOPHER KRUMREI
NUMBER A-201601211
ARCHITECT

PROFESSIONAL SEAL

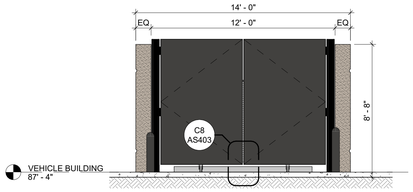
AS402

ISSUE DATE: NOVEMBER 1, 2024
HOEFER WELKER #: 138191

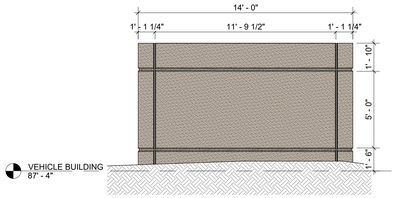
SITE DETAILS



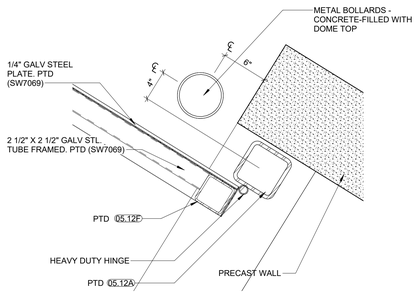
J10 TRASH ENCLOSURE @ POLICE BUILDING - SOUTH
1/4" = 1'-0"



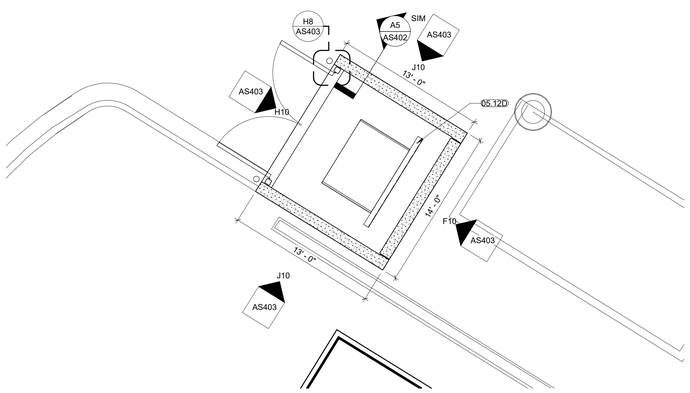
H10 TRASH ENSCLOSURE @ POLICE BUILDING - EAST
1/4" = 1'-0"



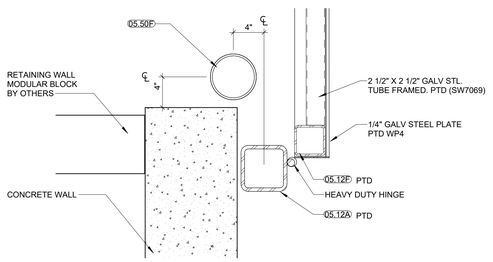
F10 TRASH ENCLOSURE @ POLICE BUILDING - WEST
1/4" = 1'-0"



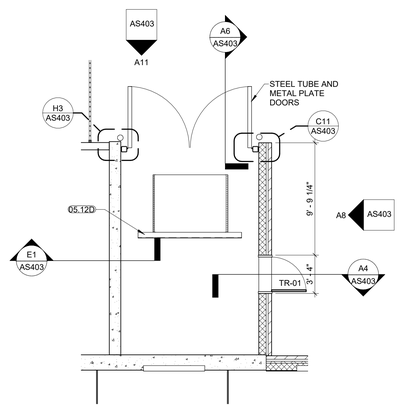
H8 HEAVY DUTY GATE JAMB - PRECAST
1 1/2" = 1'-0"



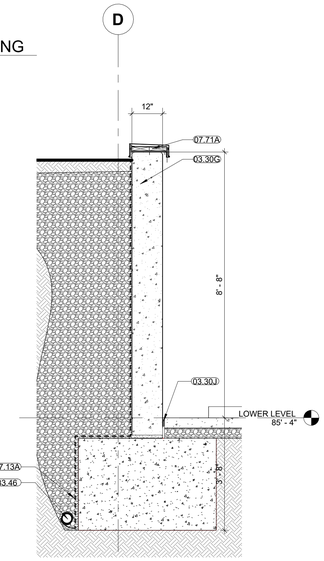
E7 TRASH ENCLOSURE @ POLICE ADDITION
NORTH
3/16" = 1'-0"



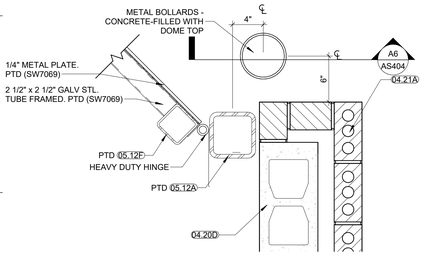
H3 HEAVY DUTY GATE JAMB - RETAINING
1 1/2" = 1'-0"



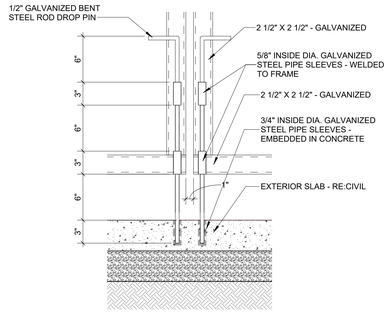
E4 TRASH ENCLOSURE
NORTH
3/16" = 1'-0"



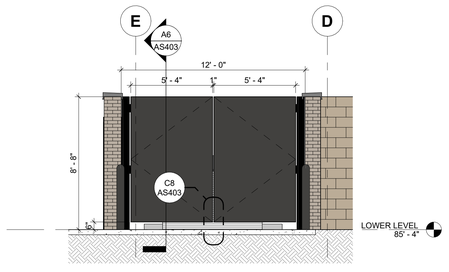
E1 CONCRETE WALL SECTION
1/2" = 1'-0"



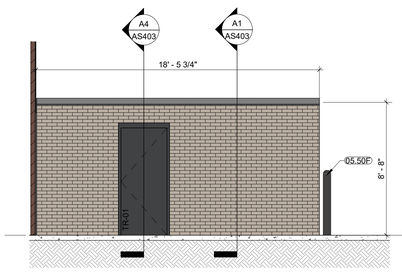
C11 HEAVY DUTY GATE JAMB - CMU
1 1/2" = 1'-0"



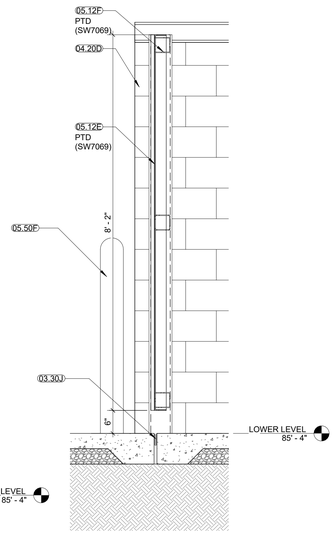
C8 GATE CLOSURE DETAIL
1 1/2" = 1'-0"



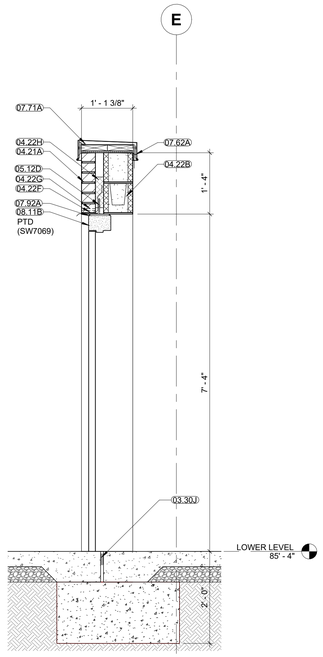
A11 TRASH ENCLOSURE - NORTH
1/4" = 1'-0"



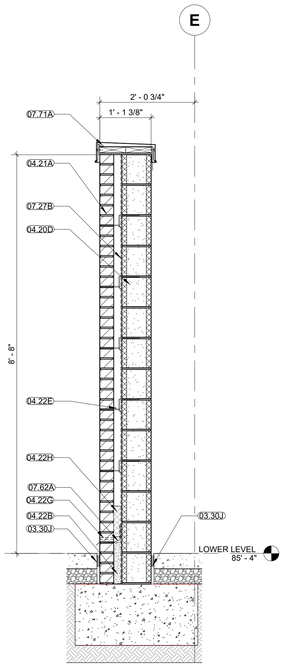
A8 TRASH ENCLOSURE - EAST
1/4" = 1'-0"



A6 TRASH ENCLOSURE - SECTION
3/4" = 1'-0"



A4 TRASH ENCLOSURE - SECTION
3/4" = 1'-0"



A1 BRICK WALL SECTION
3/4" = 1'-0"

GENERAL NOTES - ARCHITECTURAL SITE:

1. RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. ARCHITECTURAL ELEVATION 100'-0" = CIVIL ELEVATION 1024.67'.
3. ALL SIDEWALKS SHALL SLOPE 1/4 INCH PER FOOT AWAY FROM THE BUILDING, UNLESS NOTED OTHERWISE.
4. ALL GRADES SHALL SLOPE AWAY FROM THE BUILDING AT 5 PERCENT FOR THE FIRST 10 FT.
5. LOCATIONS AND SIZES OF ALL CONCRETE MECHANICAL AND ELECTRICAL PADS SHALL BE COORDINATED BY THE MECHANICAL AND ELECTRICAL CONTRACTORS, WITH THE SELECTED EQUIPMENT MANUFACTURER / SUPPLIER; AND ARE TO BE APPROVED BY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.

GENERAL NOTES - EXTERIOR ELEVATIONS:

1. RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. DIMENSIONS SHOWN ON THE EXTERIOR ELEVATIONS ARE TO THE FACE OF EXTERIOR WALL, FACE OF MASONRY (FOM), FACE OF CONCRETE WALLS (FOC), AND COLUMN GRID LINES, UNLESS OTHERWISE NOTED OR INDICATED.
3. RE: THE WINDOW TYPES SHEET FOR ALL EXTERIOR WINDOW TYPES AND GLASS TYPES.
4. ALL EXPOSED STEEL INCLUDING COLUMNS AND LINTELS TO BE PAINTED WP4
5. ALL SEALANT JOINTS TO MATCH ADJACENT FINISH, TYP.
6. ALL EXTERIOR DOORS TO BE PAINTED WP4.
7. METAL COPINGS TO MATCH METAL PANEL.

GENERAL NOTES – EXTERIOR WALL SECTIONS/ DETAILS:

1. RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. RE: FLOOR PLANS, ROOF PLAN AND ELEVATIONS FOR SECTION CUT LOCATIONS.
3. ALL WINDOW AND DOOR OPENING DIMENSIONS ARE ROUGH OPENING DIMENSIONS, UNLESS NOTED OTHERWISE.
4. DIMENSIONS SHOWN ON THE WALL SECTIONS ARE TO THE FACE OF EXTERIOR WALL, FACE OF MASONRY (FOM), FACE OF CONCRETE WALLS (FOC), AND COLUMN GRID LINES, UNLESS NOTED OR SHOWN OTHERWISE.
5. PAINT ALL EXPOSED STEEL, INCLUDING STEEL LINTELS, ETC. (TYP.)

MATERIAL KEYNOTES

03.30G	CONCRETE WALL
03.30J	1/2-INCH COMPRESSIBLE JOINT FILLER (HOLD DOWN TOP 1/2-INCH - FILL W/ SEALANT.)
04.20D	CONCRETE MASONRY UNIT (CMU) - 7 5/8 INCH
04.21A	FACE BRICK
04.22B	GROUT SOLID - MASONRY CELLS
04.22E	TIES AND ANCHORS
04.22F	THROUGH-WALL MEMBRANE FLASHING WITH METAL DRIP EDGE
04.22G	WEEP VENTS @ 24-INCH O.C.
04.22H	CAVITY DRAINAGE MATERIAL (MORTAR NET)
05.12A	STEEL COLUMN
05.12D	STEEL ANGLE
05.12E	STEEL PLATE
05.12F	STEEL TUBE
05.50F	METAL BOLLARDS - CONCRETE-FILLED WITH DOME TOP
07.13A	SELF-ADHEARING SHEET WATERPROOFING MEMBRANE
07.27B	FLUID-APPLIED MEMBRANE AIR BARRIER
07.62A	PREFINISHED SHEET METAL FLASHING
07.71A	PREFINISHED METAL COPING & CONT. CLEAT
07.92A	JOINT SEALANT
08.11B	HOLLOW METAL FRAME
33.46	FOUNDATION DRAINAGE

EXTERIOR ELEVATION MATERIALS

- BRICK - RUNNING BOND - ENDICOTT- COLOR MEDIUM IRONSPOT 46 VELOUR
- BRICK - RUNNING BOND - INTERSTATE BRICK - COLOR ASH
- PRECAST PANEL, COLOR TAN, ACID ETCH FINISH (USE WHITE PORTALND CEMENT)
- PRECAST PANEL, COLOR MEDIUM BROWN, HEAVY RETARDANT FINISH
- PRECAST PANEL WITH COLOR TREATMENT, LIGHT SANDBLAST FINISH, COLOR NWW004 CHARCOAL
- IGU - BOD: VIRACON VRE26-38.
- COMPOSITE METAL PANEL, COLOR SUNSHINE GRAY
- MODULAR BLOCK RETAINING WALL

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
09/18/2025

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LEE'S SUMMIT JOINT OPERATIONS FACILITY

PACKAGE 2: CONSTRUCTION SET

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

REVISION DATES:

STATE OF MISSOURI
CHRISTOPHER KRUMREI
NUMBER A-2016011211
ARCHITECT
11/1/24

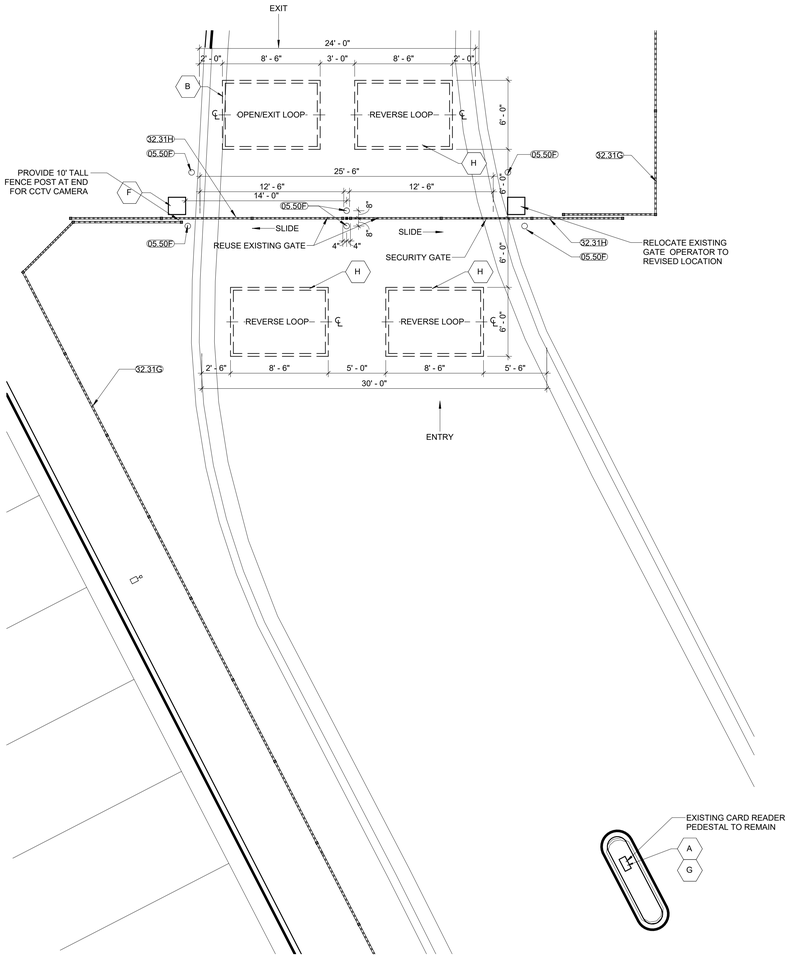
PROFESSIONAL SEAL

AS403

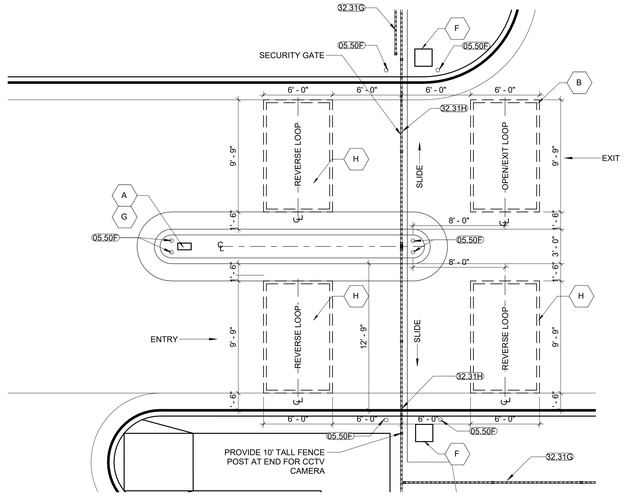
ISSUE DATE: NOVEMBER 1, 2024
HOEFER WELKER #: 138191

SITE DETAILS

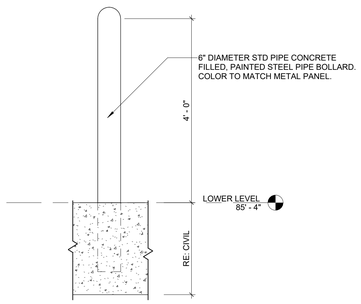
PARKING EQUIPMENT SCHEDULE1					
TYPE	MANUFACTURER	DESCRIPTION	MODEL	FINISH	COMMENT
A	AIPHONE	ENTRY TERMINAL	IS-IPDV	BLACK	REF. MEP
B	HYSECURITY	OPEN/EXIT LOOP	HY5B LOOP DETECTOR	TBD	COORDINATE W/ CONCRETE POUR
F	HYSECURITY	GATE OPERATOR	SLIDESMARTDC HD25	BLACK	COORDINATE W/ OWNER
G	PRO PEDESTAL	PEDESTAL POLE	REF. MEP	BLACK	
H	HYSECURITY	REVERSE LOOP	HY5B LOOP DETECTOR	TBD	COORDINATE W/ CONCRETE POUR



D1 SITE GATE @ TUDOR ROAD
NORTH 3/16" = 1'-0"



A1 SITE GATE @ NW COMMERCE CIRCLE
NORTH 3/16" = 1'-0"



A6 TYP. BOLLARD DETAIL
3/4" = 1'-0"

GENERAL NOTES - ARCHITECTURAL SITE:

1. RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
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3. ALL SIDEWALKS SHALL SLOPE 1/4 INCH PER FOOT AWAY FROM THE BUILDING, UNLESS NOTED OTHERWISE.
4. ALL GRADES SHALL SLOPE AWAY FROM THE BUILDING AT 5 PERCENT FOR THE FIRST 10 FT.
5. LOCATIONS AND SIZES OF ALL CONCRETE MECHANICAL AND ELECTRICAL PADS SHALL BE COORDINATED BY THE MECHANICAL AND ELECTRICAL CONTRACTORS, WITH THE SELECTED EQUIPMENT MANUFACTURER / SUPPLIER; AND ARE TO BE APPROVED BY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.

MATERIAL KEYNOTES	
05.50F	METAL BOLLARDS - CONCRETE-FILLED WITH DOME TOP
32.31G	DECORATIVE METAL FENCING
32.31H	DECORATIVE METAL GATE

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Development Services Department
Lee's Summit, Missouri
09/18/2025

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LEE'S SUMMIT JOINT OPERATIONS FACILITY

2 NE TUDOR RD
LEE'S SUMMIT, MISSOURI 64086

FINAL DEVELOPMENT PLAN

GENERAL NOTES - FLOOR PLANS:

1. RE: SHEET G-011 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. ARCHITECTURAL ELEVATION 100'-0" = CIVIL ELEVATION 1024.67'
3. DIMENSIONS SHOWN ON THE FLOOR PLAN ARE TO THE FACE OF MASONRY (FOM), FACE OF CONCRETE WALLS (FOC), AND COLUMN GRID LINES, UNLESS NOTED OR SHOWN OTHERWISE.
4. FOR METAL STUD CONSTRUCTION DIMENSIONS SHOWN ON THE FLOOR PLAN ARE TO THE FACE OF GYP. BOARD/ WALL (FOG), UNLESS NOTED OR SHOWN OTHERWISE.
5. NOTE: WALL THICKNESSES ARE ACTUAL DIMENSIONS.
6. DOOR OPENINGS NOT LOCATED BY DIMENSION SHALL BE CENTERED IN WALL SHOWN OR LOCATED 4 INCHES FROM FINISH WALL TO OUTSIDE FACE OF DOOR FRAME - HINGE SIDE, ALWAYS ALLOWING A MINIMUM OF 18" FROM THE PULL SIDE (STRIKE SIDE) OF THE DOOR TO THE INTERSECTING WALL, OR OTHER PROTRUDING OBJECTS.
7. ALL CLOSETS AND ALCOVES WITHOUT A SPACE IDENTIFICATION NUMBER SHALL HAVE THE SAME FINISHES AS THE ADJOINING SPACES.
8. ALL PUBLIC SPACES: THE WALLS WILL BE FINISHED WITH 5/8" GYP. BD. TO A LEVEL 4 FINISH AND PAINTED, UNLESS NOTED OR SPECIFIED OTHERWISE.
9. RE: FINISH LEGEND, AND SPECIFICATIONS FOR DOOR AND DOOR FRAME FINISHES.
10. ALL EXPOSED STEEL INCLUDING COLUMNS TO BE PAINTED WP4

MATERIAL KEYNOTES

05.50G	6" TRAFFIC GUARD NON LOCKIGN DROP IN BOLLARD SERIES RP4501, 10K DESIGN LOAD
10.22C	OPERABLE PARTITION
10.44B	SEMI-RECESSED FIRE EXTINGUISHER CABINET
26.56	EXTERIOR LIGHT FIXTURE

REVISION DATES:

9	CCD 001	1/29/2025
11	ASI 006	3/10/2025
18	CCD 003	5/5/2025
20	ASI 012	6/20/2025

PROFESSIONAL SEAL

A-101

ISSUE DATE: OCTOBER 16, 2024
HOEFER WELKER #: 138191

LOWER LEVEL - FLOOR PLAN

A1 LOWER LEVEL FLOOR PLAN
1/8" = 1'-0"

NORTH