



VICINITY MAP

7 BREW COFFEE

LEE'S SUMMIT, MO

22033 7BLS

PERMIT SET

APRIL 22, 2022

SHEET INDEX

GENERAL

G0.0 COVER SHEET  
G0.1 GENERAL NOTES & SCHEDULES

CIVIL

C-001 GENERAL NOTES  
C-101 DEMOLITION PLAN  
C-201 SITE PLAN  
C-301 GRADING PLAN  
C-401 UTILITY PLAN  
C-501 EROSION CONTROL PLAN  
C-701 DETAILS

STRUCTURAL

S0.0 GENERAL NOTES  
S1.0 FOUNDATION & DETAILS  
S1.1 FRAMING PLANS  
S1.2 ELEVATIONS & SECTIONS  
S1.3 TRUSS SHEET  
S2.1 DETAILS  
S3.1 DRIVE-THRU CANOPY  
S3.2 CANOPY DETAILS

ARCHITECTURAL

A1.1 FLOOR PLANS  
A1.2 ROOF PLAN / EGRESS PLAN  
A1.3 REFLECTED CEILING PLANS  
A2.1 EXTERIOR ELEVATIONS  
A2.2 EXTERIOR ELEVATIONS  
A3.1 SECTIONS AND DETAILS  
A3.2 SECTIONS AND DETAILS  
A4.1 DOORS AND WINDOWS  
A5.1 RESTROOMS  
A6.1 TRASH ENCLOSURE DETAILS

SITE UTILITIES

SU1.1 SITE UTILITIES PLAN

MECHANICAL

M1.1 PLUMBING PLAN  
M2.1 HVAC PLAN  
M3.1 SCHEDULES AND DETAILS

ELECTRICAL

E1.1 ELECTRICAL PLAN  
E1.2 SCHEDULES AND DETAILS

BUILDING SUPPLIER



DREW RODIGER  
PROJECT MANAGER  
C: 417-425-4546  
E: DREW@CMCMOD.COM

LEE LOVEALL  
OWNER/DESIGN  
CONSULTANT  
C: 417-353-1865  
E: LEE@CMCMOD.COM

BUILDING CODE INFORMATION

AUTHORITY HAVING JURISDICTION: CITY OF LEE'S SUMMIT  
APPLICABLE BUILDING CODES: 2018 IBC, 2017 NEC, 2010 ADA, 2018 INTERNATIONAL FIRE CODE.  
CURRENT ZONING: CP-2, PLANNED COMMUNITY COMMERCIAL  
USE GROUPS: B, BUSINESS  
CONSTRUCTION TYPE: V-B  
BUILDING LIMITATIONS: ALLOWABLE HEIGHT: 2 STORIES, 40' (BASED ON B USE GROUP, IBC 2018, 504.3)  
ACTUAL HEIGHT: 2 STORIES, 19'-8"  
ALLOWABLE AREA: 9,000 S.F. (BASED ON B USE GROUP, IBC 2018, 506.2)  
ACTUAL AREAS: 723 S.F. TOTAL (SERVING AREA - 468 S.F., MECHANICAL ACCESS - 131 S.F., COOLER - 124 S.F.)  
OTHER CODE ITEMS: SEE EGRESS PLAN FOR ADDITIONAL ITEMS

PROJECT DESCRIPTION

PREFABRICATED FREESTANDING BUILDING WITH ACCOMPANYING WALK-IN COOLER DELIVERS COFFEE, TEA, AND ENERGY DRINKS TO CUSTOMERS VIA DRIVE-THROUGH LANES. NO INTERIOR OR EXTERIOR DINING COMPONENT IS PROVIDED; THE INTERIOR IS ONLY OCCUPIED BY STAFF. DRINK ITEMS ARE THE ONLY ITEMS OFFERED ON THE MENU.

GENERAL NOTES

ALL CONSTRUCTION SHALL FOLLOW THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5831. WHERE DISCREPANCIES EXIST BETWEEN THESE PLANS AND THE DESIGN AND CONSTRUCTION MANUAL, THE DESIGN AND CONSTRUCTION MANUAL SHALL PREVAIL.

THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTION TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH A FIELD ENGINEERING INSPECTOR PRIOR TO ANY LAND DISTURBANCE WORK AT (816) 969-1200.

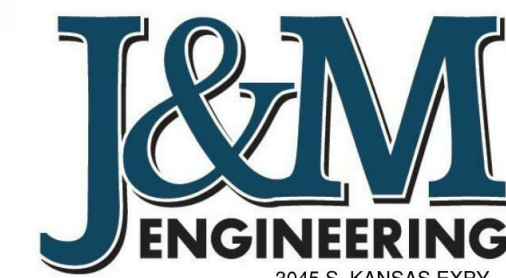
CONSULTANTS

CIVIL ENGINEER:



8040 NORTH OAK TRAFFICWAY  
KANSAS CITY, MO 64118  
(816) 468-5858

STRUCTURAL ENGINEER:

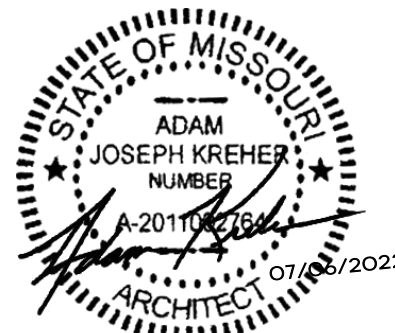


3045 S. KANSAS EXPY.  
SPRINGFIELD, MO 65907  
PHONE: 417-708-9315  
www.jandmstructural.com

MECHANICAL ELECTRICAL PLUMBING ENGINEER:



2225 WEST CHESTERFIELD  
BOULEVARD, SUITE 200  
SPRINGFIELD, MO 65807  
(417) 877-1700



ARCHITECT OF RECORD:

NAME: ADAM KREHER  
LICENSE NO. 2011002764

PROJECT NUMBER:  
220333 7BLS

REVISION: A ADD 001 6/17/22

B ADD 002 7/5/22

G0.0

COVER SHEET

DATE: APRIL 22, 2022

7 BREW COFFEE  
LEE'S SUMMIT, MO

1430 NE DOUGLAS ST.  
LEE'S SUMMIT, MO 64086



116 NORTH 2ND AVENUE, OZARK, MO 65721 • P (417) 581-8889 • F (417) 581-9000  
Lee's Summit, Missouri  
09/07/2022







7 BREW COFFEE  
LEE'S SUMMIT, MO

1430 NE DOUGLAS ST.  
LEE'S SUMMIT, MO 64086



ARCHITECT OF RECORD:  
NAME: ADAM KREHER  
LICENSE NO. 2011002764

PROJECT NUMBER:  
220333 7BLS

REVISION: ADD 001  
6/17/22

G0.1

GENERAL NOTES &  
SCHEDULES  
DATE: APRIL 22, 2022

EQUIPMENT AND FIXTURE SCHEDULE						
ITEM NO.	QTY.	MANUFACTURER	PRODUCT	PRODUCT NO.	SIZE	NOTES
EQ-1	1	NOLAKE	REMOTE WALK-IN COOLER	K0DB77104-C	675 CUBIC SF	
EQ-2	1	BUNN WATER HEATER	HOT WATER MACHINE	HSX- ELEMENT		
EQ-3	2	LA MARZOCCO	ESPRESSO MACHINE	LINEA PB (AV)- 3		
EQ-4	1	LA MARZOCCO	ESPRESSO MACHINE	LINEA PB (AV)- 4		
EQ-5	2	MANITOWOC	ICE MAKER HEADS	IYF 1800 C		REMOTE CONDENSOR - IF 1800C
EQ-6	1	MANITOWOC	ICE MAKER BIN	LB 1760	60"	
EQ-7	27	TORRANI	SYRUP RACK			
EQ-8	3	VITAMIX	BLENDER			
EQ-9	4	EAGLE GROUP	STAINLESS STEEL STORAGE SHELVING	(1) SS 1872 - PZ86S (2) SS 1424 - PZ86S (3) SS 1436 - PZ86S (4) SS 1436 - PZ86S		
EQ-10	2	SPACEMAN	CHILLER MACHINE	6695-C		
EQ-11	3	MAZZER	COFFEE BEAN GRINDER	ROBUR S NERO		
EQ-12	1	MAZZER	DECAF COFFEE BEAN GRINDER	SUPER JOILY PRO V (E) NERO		
EQ-13	1	RUBBERMAID	TRASH CONTAINER			
EQ-14	1	ATOSA	REACH-IN COOLER	MCF8723GR		
EQ-15	3	LA CROSSR	MOBILE ICE BINS	513034 CL-24(CCCAB-31		
EQ-16	1	CONTINENTAL	UNERCOUNTER COOLER	SW36NGD-U		
EQ-17	3	STRONGWAY	AIR CURTAIN	49947		
EQ-18	3		RAPID RINSER			

EQUIPMENT SCHEDULE NOTES:

- a. ALL EQUIPMENT TO BE INSTALLED BY A LICENSED INSTALLER AND THE MANUFACTURERS SPECIFICATIONS.

GENERAL SCHEDULE NOTES:

THE ITEMS IDENTIFIED ON THE FINISH MATERIALS SCHEDULE, EQUIPMENT AND FIXTURE SCHEDULES HAVE BEEN SELECTED AND APPROVED FOR THE USE ON 7 BREW COFFEE PROJECTS AS "STANDARDS". ITEMS SPECIFIED MAY OR MAY NOT ACTUALLY APPEAR ON THE DRAWINGS. THE DESCRIPTIONS ARE TO IDENTIFY THE PRODUCTS AND NOT TO DETERMINE THE INCLUSION OR USE OF ANY PARTICULAR ITEM.

FINISH MATERIALS SCHEDULE			
SYMBOL	ITEM	DESCRIPTION	REMARKS
FRP-1	MEG-WALLS	WHITE	MEG PANELS
MP-1	METAL SIDING	CUSTOM COLOR: ZINC GRAY FINISH: SMOOTH	EXTERIOR SIDING
MP-2	BRAKE METAL	COLOR: SLATE BLUE FINISH: SMOOTH	METAL ROOF, COPING AND CANOPY COLUMNS
MP-3	BRAKE METAL	COLOR: MATTE BLACK FINISH: SMOOTH	METAL SOFFIT AND COPING
MP-4	BRAKE METAL	COLOR: ZINC GRAY FINISH: SMOOTH	METAL COPING AT SIDE WALLS
MP-5	BRAKE METAL	COLOR: COLONIAL RED FINISH: SMOOTH	METAL COPING
PL-1	DECORATIVE PANEL	NICHIIHA MODERN BRICK COLOR: MIDNIGHT FIBER CEMENT PANEL	EXTERIOR FINISH
PL-2	DECORATIVE PANEL	NICHIIHA CANYON BRICK COLOR: SHALE BROWN FIBER CEMENT PANEL	EXTERIOR FINISH
WC-1	DECORATIVE WALL COVERING	CUSTOM VINYL WALL COVERING	COOLER WALLS
VT-1	RESILIENT VINYL FLOORING	PROTECT-ALL FLOORING COLOR: LIGHT GRAY	SERVICE AREA AND TOILET
VB-1	RESILIENT VINYL BASE	PROTECT-ALL BASE COLOR: LIGHT GRAY	SERVICE AREA AND TOILET

FINISH MATERIALS SCHEDULE NOTES:

- a. PROVIDED BY 7 BREW AND INSTALLED BY GENERAL CONTRACTOR.  
b. ALL MATERIALS AND WORK PROVIDED AND INSTALLED BY GENERAL CONTRACTOR.  
c. PROVIDE A MINIMUM OF TWO (2) COATS PAINT OVER ONE (1) COAT PRIMER ON ALL EXPOSED GYP BD IN SERVICE AREA AND TOILET  
d. CEILING AND WALL TO BE SATIN FINISH. DOORS AND DOOR FRAMES TO BE SEMI-GLOSS.

GENERAL CONSTRUCTION PROCEDURES

- ALL CONSTRUCTION SHALL BE EXECUTED IN STRICT COMPLIANCE WITH ALL LOCAL CODES AND ORDINANCES. GENERAL CONTRACTOR SHALL COMPLY WITH ALL CONSTRUCTION REGULATIONS AND PROCEDURES ESTABLISHED BY THE LANDLORD.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING APPLICATION FOR AND PROCURING ALL PERMITS AND CERTIFICATES AS MIGHT BE REQUIRED BY GOVERNING AGENCIES AND SHALL BEAR THE COST FOR SUCH PERMITS AND CERTIFICATES. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS OF THE SITE.
- EVERY EFFORT HAS BEEN MADE TO ASSURE ACCURATE CONSTRUCTION DOCUMENTS, BUT IF A CONFLICT EXISTS THE GENERAL CONTRACTOR SHALL CONTACT THE ARCHITECT IMMEDIATELY FOR CLARIFICATION. THESE DOCUMENTS INDICATE THE DESIGN INTENT AND IF EXISTING CONDITIONS ARE IN CONFLICT THE GENERAL CONTRACTOR SHALL CONTACT THE ARCHITECT IMMEDIATELY FOR CLARIFICATION.
- THE GENERAL CONTRACTOR SHALL MAINTAIN DIRECT SUPERVISION OVER ALL SUBCONTRACTORS AND SHARE RESPONSIBILITY FOR THEIR PERFORMANCE AND QUALITY OF WORK. A LIST OF ALL SUBCONTRACTORS SHALL BE PROVIDED TO THE OWNER AND THE ARCHITECT. A COPY OF THIS LIST SHALL BE POSTED ON THE JOB SITE.
- ALL SIGNAGE AND MOUNTING DEVICES SHALL BE PROVIDED, AND ALL SIGNAGE APPROVALS OBTAINED, BY OWNERS SIGN CONTRACTOR. GENERAL CONTRACTOR SHALL PROVIDE ELECTRICAL POWER AS REQUIRED AND INSURE SUFFICIENT SPACE AND CLEARANCE IS PROVIDED FOR PROPER INSTALLATION. SIGNAGE CONTRACTOR SHALL APPLY FOR AND SECURE ALL APPROVALS REQUIRED BY ALL LOCAL GOVERNING AGENCIES AND SUPPLY ANY DRAWINGS OR GRAPHIC REPRESENTATIONS REQUIRED BY LANDLORD.
- ALL CONCEALED WOOD BLOCKING USED IN CONSTRUCTION SHALL BE FIRE-RETARDANT TREATED (IF APPLICABLE).
- GENERAL CONTRACTOR SHALL PERFORM AND/OR CAUSE TO BE PERFORMED ALL WORK IN A FIRST-CLASS WORKMANLIKE MANNER AND IN ACCORDANCE WITH EACH TRADE'S ESTABLISHED PROCEDURES AND MANUFACTURER'S RECOMMENDATIONS FOR PRODUCT USE AND INSTALLATION.
- ALL PRODUCTS USED ON THIS PROJECT SHALL BE FIRST QUALITY, NEW AND FREE OF ASBESTOS OR OTHER ENVIRONMENTALLY UNSAFE SUBSTANCES.
- MILLWORK, BASE, DESIGNATED TRIM, ETC. SHALL BE PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR WHERE INDICATED ON THE DRAWINGS AND/OR SCHEDULES.
- GENERAL CONTRACTOR SHALL CONTACT ARCHITECT PRIOR TO CONSTRUCTION START DATE TO CONFIRM THAT HE/SHE HAS LATEST APPROVED CONSTRUCTION DOCUMENTS FOR THIS LOCATION.

SUSTAINABILITY GUIDELINES

THE FOLLOWING GUIDELINES TO BE USED BY GENERAL CONTRACTOR ARE VOLUNTARY IN NATURE. IT IS HIGHLY RECOMMENDED THAT THE GENERAL CONTRACTOR FOLLOW THESE GUIDELINES TO THE EXTENT IT IS FEASIBLE.

- IMPROVE INDOOR AIR QUALITY:
  - REDUCE CONSTRUCTION DUST AND AIR PARTICULATES WITH DUST CONTAINMENT SYSTEMS AND/OR SHUT OFF CIRCULATING AIR.
  - CHANGE HVAC FILTERS AT THE CONCLUSION OF THE JOB.
  - USE LOW V.O.C. PAINTS, ADHESIVES, SEALANTS, ETC

PREFABRICATED BUILDING

THIS BUILDING IS BEING FABRICATED IN A CONTROLLED ENVIRONMENT AND TRANSFERRED TO THE JOB SITE. CJD ENGINEERING GROUP HAS BEEN ENGAGED TO CONDUCT 3rd PARTY INSPECTIONS OF ALL FABRICATION WITHIN THE 7 BREW COFFEE WAREHOUSE. THE INSPECTION WILL INCLUDE STRUCTURAL, FRAMING, BUILDING, PLUMBING AND ELECTRICAL.

TYPICAL SYMBOL LEGEND

DETAIL DESIGNATION DETAIL NUMBER 12/A3.4	SHEET NUMBER	ELEVATION HEIGHT T.O. WALL 106'-0"
SQUARE FOOTAGE ROOM TAG 101 150 SF	ROOM NAME 101 ROOM NUMBER	ELEVATION TAG 1 A1.1 1 A1.1 1
DOOR TAG 101		CEILING HEIGHT 0'-0"
SECTION CUT TAG 1 101		WINDOW TAG W1
ROOF SLOPE 12 2		REVISION DELTA 1
WALL TYPE/ PARTITION TYPE W1		GRID BUBBLE 0
WALL PARTITION		ENLARGED DETAIL 1 101
EXISTING WALL		FINISH TAG PT-1

MATERIAL INDICATION

CONCRETE		FINISHED WOOD	
DIMENSIONAL LUMBER		GYPSUM BOARD	
RIGID INSULATION		PLYWOOD	
BATT OR BLOWN INSULATION		GLASS	
EARTH/BACKFILL		CMU	

ABBREVIATIONS

ACCOUST. ADD A.F.F. AF AL ALT. ALUM. ANCH. ARCH. @ B.B B.F. BD BKT. BLDG. BLK'G BM B.O. BRG BSMT C.S. CAB. C.C CEM. CF CFCl CI CLG C.O. COL CONC CONF CONN CONSTR CONT CONTR COORD CORR CTR CYL ¢ C.W. DP DBL DEG D.F. DEMO DIA. Ø DIAG DIM D.O. DTL DR D.S. EA ELEC ELEV ELEV E.W.C. EQUIP EXIST'G EXP EXT F.B.O. F.D. F.E. F.E.C. F.E.B. FIN F.G. FL FLASH'G FLR F.O.M FND	ACOUSTICAL ADDITIONAL ABOVE FINISH FLOOR AS FURNISHED AS INSTALLED ALTERNATE ALUMINUM ANCHOR ARCHITECT AT BOTTOM OF BEAM BOTTOM OF FOOTING BOARD BRACKET BUILDING BLOCKING BENCH MARK BOTTOM OF BEARING BASEMENT COUNTERSUNK H HIGH CENTER-TO-CENTER CEMENT CONTRACTOR FURNISHED CONTRACTOR INSTALLED CONTRACTOR INSTALLED CLEAN OUT COLUMN CONCRETE CONFERENCE CONNECTION CONSTRUCTION CONTINUOUS CONTRACTOR COORDINATE CORRUGATED/ CORRIDOR CENTER CYLINDER MEZZ CENTERLINE COLD WATER DEEP DOUBLE DEGREE DRINKING FOUNTAIN DEMOLITION DIAMETER DIAGONAL DIMENSION DO-OVER DETAIL DOOR DOWNSPOUT EACH ELECTRICAL ELEVATION (VIEW) ELEVATOR ELECTRIC WATER COOLER EQUIPMENT EXISTING EXPOSED EXTERIOR / EXTENSION FURNISHED BY OTHERS FLOOR DRAIN FIRE EXTINGUISHER CABINET FIRE EXTINGUISHER BRACKET FINISH FINISH GRADE FLOW LINE FLASHING FLOOR FACE OF MASONRY FOUNDATION	FR FRM FURN F.R.T. FTG FUR GA GAL GALV GC G.I. GLAZ GOV'T GS. GEN GYPSUM HDWR H.C. HOL HORIZ H HT. HTG. HTR H.W. I.D. INSUL INT. INV JNT JSTS K.E.S. LAM LAV LG L.H.B. L.H.R.B. LIN LVR MAS MATL MAX MEZZ MFRD MFR MID MIN MISC MARK M.O. MTD MTL MULL NON NTS O.A. O.C. OD OFCl OFOI O/H O/ OPN'G OPP PART P.E.M.B. PERIM P.G. PLAM PLAS PL PLUMB'G PLY P.P PR PVC Q.T. R	FIRE RETARDANT FRAME FURNISHED FIRE RETARDANT TREATED FOOTING FURRING GAUGE GALLON GALVANIZED GENERAL CONTRACTOR GLAZING GOVERNMENT GRAVEL STOP GENERAL GYPSUM HARDWARE HOLLOW CORE HOLLOW HORIZONTAL HIGH HEIGHT HEATING HEATER HOT WATER INSIDE DIAMETER INSULATION INTERIOR INVERT JOINT JOISTS KITCHEN EQUIPMENT SUPPLIER LAMINATE LAVATORY LONG LEFT HAND BEVEL LEFT HAND REVERSE BEVEL LINEAR / LINEAL LOUVER MASONRY MATERIAL MAXIMUM MEZZANINE MANUFACTURED MANUFACTURER MIDDLE MINIMUM MISCELLANEOUS MARK MASONRY OPENING MOUNTED METAL MULLION NONMINIMAL NOT TO SCALE OVERALL ON CENTER OUTSIDE DIAMETER OWNER FURNISHED CONTRACTOR INSTALLED OWNER FURNISHED OWNER INSTALLED OVERHEAD OPENING OPPOSITE PARTITION PRE-ENGINEERED METAL BUILDING PERIMETER PRESENT GRADE PLASTIC LAMINATE PLASTIC PROPERTY LINE PLUMBING PLYWOOD POWER POLE PAIR POLYVINYL CHLORIDE QUARRY TILE RADIUS	RCP REINFORCED CONCRETE PIPE REFER RE R.H.B. R.H.R.B. RL RM R.O. RES. REQ'D REQMT R.T.V. REG SAF SAN SCHED S.C. SECT SHT SIM SPEC STND STD STL STOR STRUCT SURF SUSP SYST S.W. TYP. T.O. UN.O VCP VEST VERT VOL V.T.R. VCT W W/ WD W.D. WDW WRB WWF W.P WT	RIGHT HAND BEVEL RIGHT HAND REVERSE BEVEL RAIN LEADER ROOM ROUGH OPENING RESILIENT TILE REQUIRED REQUIREMENT ROTARY-TURBINE VENT REGULAR SAFETY SANITARY SCHEDULE SOLID CORE SECTION SHEET SIMILAR SPECIFICATION STANDARD STUD STEEL STORAGE STRUCTURE / STRUCTURAL SURFACE SUSPENDED SYSTEM STORM WATER TYPICAL TOP OF UNLESS NOTED OTHERWISE VITRIFIED-CLAY-PIPE VESTIBULE VERTICAL VOLUME VENT-THRU-ROOF VINYL COMPOSITION TILE WIDE WITH WOOD WINDOW DIMENSION WINDOW WEATHER RESISTANT BARRIER WELDED WIRE FABRIC WEATHER PROOF WEIGHT
--	---	---	--	---	---

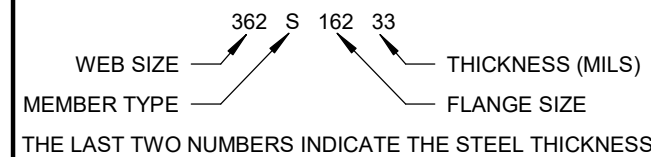


LOADING TABLE AND CODE INFORMATION			
BUILDING CODE 2018 IBC			
1. DEAD LOADS			
A. ROOF DEAD LOAD		20	PSF
B. TYPICAL ATTIC / FLOOR DEAD LOAD		50	PSF
2. COLLATERAL LOADS (NON-REDUCIBLE)			
A. ROOF COLLATERAL LOAD		10	PSF
3. LIVE LOADS			
A. ROOF LIVE LOAD (W/ TRIBUTARY REDUCTION)		20	PSF
B. TYPICAL FLOOR LIVE LOAD		40	PSF
C. STAIRS AND CORRIDORS FLOOR LIVE LOAD		100	PSF
4. SNOW LOAD			
A. GROUND SNOW LOAD, P <sub>g</sub>		20	PSF
B. FLAT ROOF SNOW LOAD, P <sub>f</sub>		20	PSF
C. SNOW EXPOSURE FACTOR, C <sub>e</sub>		1.0	
D. SNOW LOAD IMPORTANCE FACTOR		1.0	
E. THERMAL FACTOR, C <sub>t</sub>		1.0	
F. SNOW DRIFT		PER CODE	
5. WIND LOAD			
A. ULTIMATE WIND SPEED, V <sub>ult</sub>		109	MPH
B. RISK CATEGORY			
C. WIND IMPORTANCE FACTOR		1.0	
D. WIND EXPOSURE CATEGORY		C	
E. INTERNAL PRESSURE COEFFICIENT		±0.18	
6. SEISMIC DESIGN CRITERIA			
A. RISK CATEGORY		II	
B. SEISMIC IMPORTANCE FACTOR, I <sub>e</sub>		1.0	
C. SPECTRAL RESPONSE ACCELERATIONS AND COEFFICIENTS			
i. S <sub>s</sub>		0.100	i. S <sub>ds</sub> 0.106
iii. S <sub>1</sub>		0.068	iii. S <sub>d1</sub> 0.109
D. SITE CLASS			
E. SEISMIC DESIGN CATEGORY		B	
F. BASIS SEISMIC FORCE-RESISTING SYSTEM		LFWS	ELB
G. ANALYSIS PROCEDURE		FSF	
H. RESPONSE MODIFICATION COEFFICIENT, R		4	
I. SYSTEM OVERSTRENGTH FACTOR,		3	
J. DEFLECTION AMPLIFICATION FACTOR, C <sub>d</sub>		4	

### COLD-FORMED STEEL NOTES

#### PRODUCT IDENTIFICATION

THE AMERICAN IRON AND STEEL INSTITUTE STANDARDS ARE USED IN THIS PACKAGE. ANY MANUFACTURER WHOSE PRODUCT GEOMETRIES MEETS OR EXCEED AISI STANDARDS ARE ACCEPTABLE.



- COLD-FORMED STEEL FABRICATION AND INSTALLATION SHALL BE IN ACCORDANCE WITH AISI "STANDARD FOR COLD-FORMED STEEL FRAMING - GENERAL PROVISIONS".
- WELDING OF COLD-FORMED STEEL SHALL BE IN ACCORDANCE WITH THE STANDARD CODE OF ARC AND GAS WELDING IN BUILDING CONSTRUCTION. AXIALLY LOADED STUDS SHALL BE POSITIONED DIRECTLY UNDER JOIST BEARING POINTS WHENEVER POSSIBLE.
- STUDS SHALL NOT BE SPLICED.
- PROVIDE MANUFACTURER'S STANDARD BRIDGING AS NOTED ON STUD TABLES (4 MAX U.N.O.).
- PROVIDE DOUBLE STUDS, MINIMUM AT ALL PARTITION ENDS, EACH SIDE OF OPENINGS, AND WHERE INDICATED ON DRAWINGS.
- PROVIDE DEFLECTION TRACK OR CLIPS AT HEADS OF ALL NON LOAD-BEARING WALLS.
- MINIMUM TRACK SIZE SHALL MATCH STUD SIZE U.N.O. SEE STANDARD LIGHT GAGE DETAILS AND STUD CHARTS FOR ADDITIONAL INFORMATION.
- ALIGN WEB PUNCHOUTS IN STUD WALLS. WEB PUNCHOUTS MUST BE LOCATED A MINIMUM OF 10" AWAY FROM THE STUD END.
- MINIMUM YIELD STRENGTH FOR 18 AND 20 GA COLD-FORMED MEMBERS SHALL BE 33 KSI. MINIMUM YIELD STRENGTH FOR 16 GA AND HEAVIER COLD-FORMED MEMBERS SHALL BE 50 KSI.
- HEADERS AND BULKHEADS SHALL BE FORMED FROM UNPUNCHED MEMBERS.
- STUDS SHALL NOT BE NOTCHED, SPLICED, OR COPED WITHOUT WRITTEN APPROVAL OF ENGINEER.
- CUTTING OF STUDS SHALL BE DONE BY SAWING, SHEARING, OR PLASMA CUTTING. OTHER METHODS OF CUTTING ARE NOT PERMITTED WITHOUT APPROVAL OF ENGINEER.
- SEE SPECIFICATIONS FOR ADDITIONAL STRUCTURAL COLD-FORMED FRAMING REQUIREMENTS. SEE SPECIFICATION SECTION 0520 FOR ADDITIONAL REQUIREMENTS FOR COLD-FORMED DRYWALL COMPONENTS. ALL MATERIALS AND WORK SHALL CONFORM TO THE CODE LISTED IN THESE DRAWINGS. THESE NOTES GIVE MINIMUM REQUIREMENTS. WHERE CONFLICTS ARISE BETWEEN THE CODE, THE DRAWINGS, AND THE STRUCTURAL NOTES, THE MORE STRINGENT REQUIREMENT SHALL CONTROL.

#### ADDITIONAL COLD-FORMED STEEL NOTES

- CONTRACTOR SHALL PROVIDE LIGHT GAGE FRAMING SHOP DRAWING SUBMITTAL. SUBMITTAL SHALL INCLUDE LIGHT GAGE FRAMING PLANS, DETAILS, SECTIONS AND ACCESSORIES.
- LIMIT STUD/HEADER DEFLECTIONS TO L/800 FOR MEMBERS SUPPORTING BRICK VENEER AND L/360 FOR ALL OTHERS.
- SUBMITTAL SHALL INCLUDE INTERIOR AND EXTERIOR STUDS AND CEILING/SOFT MEMBERS.
- COORD DEFLECTION TRACK AT NON-LOADING BEARING WALLS AND FIRE-RATED PARTITIONS. W/ ARCH. TRACK (OR CLIPS) SHALL ALLOW 3/4" VERTICAL MOVEMENT UP OR DOWN.
- PROVIDE DEFLECTION CLIPS AT TOP OF ALL EXTERIOR NON-LOAD BEARING JAMB MEMBERS. PUNCHOUTS SHALL ALIGN AND SHALL NOT BE LOCATED WITHIN 10" OF BASE.

#### STATEMENT OF SPECIAL INSPECTIONS

- SPECIAL INSPECTIONS ARE REQUIRED FOR THIS STRUCTURE IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE FOR THE ITEMS NOTED IN THE TABLE ON THIS SHEET.
- TESTING SHALL BE PERFORMED BY A QUALIFIED TESTING LABORATORY RETAINED BY THE OWNER AND APPROVED BY THE ENGINEER.
- A LETTER OF SUBSTANTIAL COMPLETION SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT BY THE SPECIAL INSPECTION PROVIDER PRIOR TO THE FINAL INSPECTION.

IBC TABLE 1705.6 REQUIRED VERIFICATION AND INSPECTION OF SOILS		
VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	—	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	—	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	—	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	—
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	—	X

### SCHEDULE - SPECIAL INSPECTIONS

#### ABBREVIATIONS

- A.B.= ANCHOR BOLT
- ACI= AMERICAN CONCRETE INSTITUTE
- AISC= AMERICAN INSTITUTE OF STEEL CONSTRUCTION
- AISI= AMERICAN IRON AND STEEL INSTITUTE
- ARCH= ARCHITECTURE/ARCHITECT
- ASTM= AMERICAN SOCIETY FOR TESTING AND MATERIALS
- A.W.= AFTER WELDING
- AWSS= AMERICAN WELDING SOCIETY
- BAR= REBAR
- B.O.= BOTTOM OF
- B.O.A.= BACK OF ANGLE
- B.O.F.= BOTTOM OF FINISHING
- B.O.S.= BOTTOM OF STEEL
- BRG= BEARING
- BTM= BOTTOM
- CANT= CANTILEVERED
- C.I.P.= CAST-IN-PLACE
- C.J.P.= COMPLETE JOINT PENETRATION WELD
- CL= CENTERLINE
- CLR= CLEAR
- CMU= CONCRETE MASONRY UNIT
- COL= COLUMN
- CONC= CONCRETE
- CONN= CONNECTION
- CONT= CONTINUOUS
- D.B.= DECK BEARING
- D.B.A.= DEFORMED BAR ANCHOR
- D.E.= DECK EDGE
- DIA= DIAMETER
- DL= DEAD LOAD
- DTL= DETAIL
- DWG= DRAWING
- E= EXISTING
- EACH= EACH
- E.F.= EACH FACE
- EL= ELEVATION
- EPS= EXPANDED POLYSTYRENE
- EQ= EQUAL
- E.W.= EACH WAY
- EXT= EXTERIOR
- EXT= CONCRETE COMPRESSIVE STRENGTH
- F.F.= FINISHED FLOOR
- FND= FOUNDATION
- F.O.W.= FACE OF WALL
- F.S.= FAR SIDE
- FTG= FOOTING
- F.V.= FIELD VERIFY
- GA= GAGE / GAUGE
- GALV= GALVANIZED
- G.B.= GENERAL BEAM
- G.C.= GENERAL CONTRACTOR
- (H)= HIGH
- H.L.= HIGH & LOW
- H.A.S.= HEADED ANCHOR STUD
- HORIZ= HORIZONTAL
- IBC= INTERNATIONAL BUILDING CODE
- I.D.= INSIDE DIAMETER
- INFO= INFORMATION
- INT= INTERIOR
- J.B.= JOIST BEARING
- J.B.E.= JOIST BEARING ELEVATION
- KIP= 1000 POUNDS
- KSI= KIPS PER SQUARE INCH
- (L)= LOW
- LE= LENGTH
- LB= POUND
- LGFS= LIGHT-GAGE STEEL FRAMING
- LL= LIVE LOAD
- LLH= LONG LEG HORIZONTAL
- LLV= LONG LEG VERTICAL
- LONG= LONGITUDINAL
- LP= LAYOUT POINT
- LVL= LAMINATED VENEER LUMBER
- WL= LIGHTWEIGHT
- MAX= MAXIMUM
- MECH= MECHANICAL
- MEP= MECHANICAL, ELECTRICAL, PLUMBING
- MFR= MANUFACTURER
- MIL= THOUSANDS OF AN INCH
- MIN= MINIMUM
- MISC= MISCELLANEOUS
- MTL= METAL
- N.I.C.= NOT IN CONTRACT
- N.S.= NEAR SIDE
- N.T.S.= NOT TO SCALE
- N.W.= NORMAL WEIGHT
- O.C.= ON CENTER
- O.D.= OUTSIDE DIAMETER
- OPP= OPPOSITE / OPPOSITE HAND
- PAF= POWDER ACTUATED FASTENER
- P.C.F.= POUNDS PER CUBIC FOOT
- P.E.= PRE-ENGINEERED METAL BUILDING
- PLF= POUNDS PER LINEAR FOOT
- P.P.T.= PRESERVATIVE PRESSURE TREATED
- PSF= POUNDS PER SQUARE FOOT
- PSI= POUNDS PER SQUARE INCH
- PT= POST TENSIONED
- REIN= REINFORCING
- REQ= REQUIRE
- RTU= ROOF TOP UNIT
- S.C.= SLIP CRITICAL
- SCH= SCHEDULE
- SDI= STEEL DECK INSTITUTE
- SIM= SIMILAR
- SJI= STEEL JOIST INSTITUTE
- SNOW= SNOW LOAD
- S.O.G.= SLAB ON GRADE
- STAND= STANDARDS
- STD= STANDARD
- STL= STEEL
- T= THICKNESS
- TAB= TOP AND BOTTOM
- T.O.= TOP OF
- T.O.F.= TOP OF FOOTING
- T.O.P.= TOP OF PEDESTAL
- T.O.S.= TOP OF STEEL
- T.O.W.= TOP OF WALL
- TYP= TYPICAL
- UL= ULTIMATE LOAD
- U.N.O.= UNLESS NOTED OTHERWISE
- VERT= VERTICAL
- VLD= VERTICAL LEG DOWN
- W= WIDTH
- WL= WIND LOAD
- W.P.= WORK POINT
- WWF= WELDED WIRE FABRIC
- (#)= QUANTITY

#### POST-INSTALLED ANCHOR NOTES

- CONTINUOUS INSPECTIONS ARE REQUIRED FOR POST INSTALLED ANCHOR BOLTS INCLUDING TYPE, SIZE, LENGTH, DRILLING METHOD, HOLE CLEANING PROCEDURES, AND ANCHOR INSTALLATION AND SETTING PROCEDURES.
- ADHESIVE ANCHORS SHALL BE INSTALLED BY AN ADHESIVE ANCHOR INSTALLER WHO HAS BEEN CERTIFIED BY ACI AND TRAINED BY THE MANUFACTURER.
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL			
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD
1. MATERIAL VERIFICATION OF COLD-FORMED STEEL DECK:			
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	—	X	APPLICABLE ASTM MATERIAL STANDARDS
B. MANUFACTURER'S CERTIFIED TEST REPORTS	—	X	
2. INSPECTION OF WELDING:			
A. COLD-FORMED STEEL DECK:			
a. FLOOR AND ROOF DECK WELDS.	X	—	AWS D1.3
B. REINFORCING STEEL:			
a. VERIFICATION OF WELDABILITY OF REINF STEEL OTHER THAN ASTM A 706.	—	X	
b. REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT.	X	—	AWS D1.4 ACI 318 SECTION 3.5.2
c. SHEAR REINFORCEMENT.	X	—	
d. OTHER REINFORCING STEEL.	—	X	

#### CONCRETE NOTES

- CONCRETE FOR FOUNDATIONS, FOOTINGS AND INTERIOR SLABS ON GRADE SHALL BE AS FOLLOWS:
  - 28-DAY COMPRESSIVE STRENGTH: 3000 PSI
  - MAXIMUM WATER TO CEMENT RATIO: 0.52
  - SUMP: 4" ±1"
- CONCRETE FOR EXTERIOR USES, SIDEWALKS, RETAINING WALLS, BASEMENT WALLS, AND EXTERIOR SLABS ON GRADE SHALL BE AS FOLLOWS:
  - 28-DAY COMPRESSIVE STRENGTH: 4000 PSI
  - MAXIMUM WATER TO CEMENT RATIO: 0.45
  - SUMP: 4" ±1"
  - AIR-ENTRAINMENT: 0.6% ±1%
  - AIR-ENTRAINING ADMIXTURE SHALL CONFORM TO ASTM C260
- CONCRETE FOR ELEVATED SLABS ON METAL DECK SHALL BE AS FOLLOWS:
  - 28-DAY COMPRESSIVE STRENGTH: 4000 PSI
  - MAXIMUM WATER TO CEMENT RATIO: 0.45
  - SUMP: 4" ±1"
- NO LIME SAND FINE AGGREGATE MAY BE USED IN CONCRETE EXPOSED TO WEATHER, VIEW, OR IN HORIZONTAL APPLICATIONS.
- ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 LAP FABRIC 9" ON SIDES AND ENDS. MAINTAIN WIRE 1" TO 2" BELOW TOP SURFACE OF SLABS ON GRADE. PROVIDE CHAIRS, BOLSTERS OR OTHER APPROVED MEANS TO PROPERLY LOCATE REINFORCING.
- IF ADDITIONAL FLOWABILITY IS REQUIRED FOR PLACEMENT OF ANY CONCRETE MIX, A WATER-REDUCING ADDITIVE CONFORMING TO ASTM C494, TYPE A, D, E OR F SHALL BE USED. NO ADDITIONAL WATER MAY BE ADDED TO THE MIX AT THE SITE. SLUMP FOR CONCRETE CONTAINING WATER-REDUCING OR HIGH-RANGE WATER-REDUCING ADMIXTURE SHALL NOT EXCEED 8" AFTER ADMIXTURE IS ADDED TO CONCRETE WITH A 2'-4" SLUMP.
- INTERIOR SLABS SHALL HAVE SMOOTH TROWELED FINISH AND EXTERIOR SLABS SHALL HAVE LIGHT BROOM FINISH. UNO. ALL SLABS SHALL HAVE A CURING COMPOUND COMPLYING WITH ASTM C309 APPLIED TO SURFACE. EXCEPTIONS ARE WHERE FLOOR FINISHES REQUIRE SCRATCH FINISH AND WHERE CURING COMPOUNDS ARE NOT COMPATIBLE WITH ADHESIVES, ETC.
- CONTRACTOR SHALL COORDINATE ALL CONCRETE SEALERS, CURING COMPOUNDS, ETC TO ENSURE COMPATIBILITY WITH FLOORING ADHESIVES FOR FLOORING INDICATED IN THE FLOOR PLANS AND FLOOR FINISH PLANS AS APPLICABLE.
- TESTING OF FRESH CONCRETE SHALL BE DONE BY A QUALIFIED TESTING LABORATORY RETAINED BY THE OWNER AND APPROVED BY THE ENGINEER. TESTING SHALL INCLUDE:
  - SUMP
  - AIR CONTENT
  - CONCRETE TEMPERATURE
  - 28 DAY COMPRESSIVE STRENGTH
  - NOTE ANY WATER OR ADMIXTURES ADDED ON-SITE
- REFER TO ASTM C172 AND C94. PERFORM ONE SLUMP AND ONE AIR CONTENT TEST FOR EACH DAYS POUR AND ADDITIONAL TESTS WHEN THE CONCRETE CONSISTENCY SEEMS TO HAVE CHANGED. OBTAIN OPINION OF THE INSPECTOR. REFER TO ASTM C143, C173 AND C231. PERFORM TEMPERATURE TESTS HOURLY WHEN THE AMBIENT AIR TEMPERATURE BELOW 40 DEGREES F OR ABOVE 80 DEGREES F AND ONE TEMPERATURE TEST FOR EACH SET OF COMPRESSIVE STRENGTH SPECIMENS. REFER TO ASTM C1064. PERFORM ONE COMPRESSIVE-STRENGTH TEST FOR EACH DAYS POUR AND AN ADDITIONAL TEST FOR EACH 50 CUBIC YARD MORE THAN THE FIRST 25 CUBIC YARD. TEST ONE SPECIMEN AT 7 DAYS AND 2 SPECIMENS AT 28 DAYS.
- CONCRETE FOR GROUTING MASONRY UNITS IS SPECIFIED IN CONCRETE MASONRY UNIT NOTES.
- WHERE FOOTINGS, WALLS, OR OTHER STRUCTURAL ELEMENTS INTERSECT, CORNER OR TEE, PROVIDE CORNER BARS WITH REQUIRED LAP LENGTHS TO PROVIDE CONTINUITY OF HORIZONTAL STEEL REINFORCING UNO.
- PROVIDE A MINIMUM OF 3" COVER FOR ANCHOR BOLTS AND LOCATE HORIZONTAL REINFORCEMENT TO THE OUTSIDE FOR ANCHOR BOLT CONTAINMENT, UNO.
- PROVIDE TEMPORARY SHORING AND BRACING OF ALL STRUCTURAL AND MISCELLANEOUS ELEMENTS UNTIL CONCRETE HAS OBTAINED 80% OF DESIGN STRENGTH AND ALL PERMANENT BRACING ELEMENTS ARE INSTALLED.
- UNLESS NOTED OTHERWISE, PROVIDE CONSTRUCTION JOINTS IN SLABS ON GRADE AT APPROXIMATELY 10 FEET IN EACH DIRECTION. PROVIDE CONTROL JOINTS IN SLABS ON GRADE AT APPROXIMATELY 10 FEET ON CENTER IN EACH DIRECTION. JOINTS SHALL FORM NEARLY SQUARE SHAPES. CONTRACTOR SHALL COORDINATE JOINT LOCATIONS WITH LAYOUT AS SHOWN IN THE FLOOR PLANS AND FLOOR FINISH PLANS AS APPLICABLE.
- WHERE DOWELS, BOLTS OR INSERTS ARE CALLED TO BE ANCHORED TO CAST-IN OR PRECAST CONCRETE ELEMENTS USING EPOXY ADHESIVES, USE ANCHORAGE SYSTEM EQUAL TO "HLTI" HIT RE 500 INJECTION ADHESIVE. FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS. ALTERNATE ANCHORAGE SYSTEMS MAY BE USED WITH ENGINEER'S PRIOR APPROVAL.
- SAWY CONTROL JOINTS SHALL BE PLACED AS SOON AS CONCRETE IS ABLE TO BE SAWN WITHOUT PULLING OUT AGGREGATE FROM FLOOR. SLABS SHALL NOT BE LEFT OVERNIGHT, OR ANY REASONABLE AMOUNT OF TIME, WITHOUT SAWING JOINTS. WEATHER IS CRITICAL TO SCHEDULE OF SAWY JOINTS. IF LARGE AREAS OF SLAB ARE POURED AT ONE TIME, SEVERAL SAWS MAY BE REQUIRED TO PROVIDE JOINTS IN TIME TO PREVENT SHRINKAGE CRACKING. PROPER JOINTING OF SLAB IS CRITICAL. REFER TO ACI MANUAL OF CONCRETE PRACTICE FOR PROPER JOINTING TECHNIQUES.
- DETAILING MATERIALS AND INSTALLATION OF CONCRETE REINFORCING STEEL SHALL MEET REQ. AS SET FORTH BY CRSI AND THE AMERICAN CONCRETE INSTITUTE AND THE APPLICABLE BUILDING CODE. SHOP DRAWINGS SHALL BE SUBMITTED INDICATING COMPLETE INFORMATION REQUIRED FOR CONSTRUCTION OF THE REINFORCED CONCRETE ELEMENTS. SHOP DRAWINGS SHALL INCLUDE LAYOUT AND DIMENSIONS OF REINFORCING INCLUDING ANY OPENINGS, CONVENTIONAL REINFORCEMENT DETAILS, CONNECTION DETAILS, PROCEDURES AND SEQUENCES ETC.
- WHEN PLACING CONCRETE IN HOT WEATHER, REFER TO ACI 301. WHEN PLACING CONCRETE IN COLD WEATHER, REFER TO ACI 308.1.

#### GENERAL FOUNDATION & SLAB ON GRADE NOTES (NO SPECS, NO GEOTECH)

- IN AREA OF THE STRUCTURE, EXISTING ORGANIC MATERIAL, UNSUITABLE SOIL, ABANDONED FOOTINGS AND ANY OTHER EXISTING UNSUITABLE MATERIALS SHALL BE REMOVED. ANY FILL MATERIAL REQUIRED AT THE SITE SHALL BE OF A SIMILAR TYPE SOIL THAT MEETS THE SITE EXHIBITING LIQUID LIMIT VALUES BELOW 50 AND PLASTIC INDEX VALUES BELOW 10. ROCKS GREATER THAN 6 IN. IN DIAMETER SHALL BE EXCLUDED FROM STRUCTURAL FILL LIFTS. FILL MATERIAL SHALL BE PLACED IN LOOSE LIFTS NO GREATER THAN 8 INCHES IN DEPTH AND SHALL BE EXCLUDED FROM 95% OF MAXIMUM DENSITY BASED ON STANDARD PROCTOR DENSITIES (ASTM D-698). ADEQUATE FIELD DENSITY AND MOISTURE CORRELATION TESTS SHALL BE PERFORMED TO ENSURE COMPLIANCE WITH REQUIREMENTS.
- TESTING OF CONTROLLED STRUCTURAL FILL SHALL BE DONE BY A QUALIFIED TESTING LABORATORY RETAINED BY THE OWNER. SEE STRUCTURAL DRAWINGS FOR REQUIRED TESTING. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WORK WITH INSPECTOR.
  - AFTER STRIPPING SITE AND PRIOR TO PLACEMENT OF ANY FILL, NOTIFY SPECIAL INSPECTOR/TESTING AGENCY FOR INSPECTION OF SOIL CONDITIONS. INSPECTION SHALL INCLUDE PROOF ROLLING SITE WITH HEAVY EQUIPMENT PROVIDED BY THE CONTRACTOR.
  - AFTER EXCAVATION FOR FOUNDATIONS AND PRIOR TO PLACEMENT OF STEEL REINFORCEMENT OR CONCRETE, NOTIFY SPECIAL INSPECTOR/TESTING AGENCY FOR INSPECTION OF SOIL CONDITIONS. WHEN SOIL OF INADEQUATE STRENGTH IS NOTED, CONTRACTOR SHALL FURTHER DEEPEEN EXCAVATIONS UNTIL SUITABLE BEARING CONDITIONS ARE VERIFIED BY TESTING. OVEREXCAVATIONS MAY BE BACKFILLED WITH SUITABLE COMPACTED FILL. THE FILL SHALL BE SUITABLE GRANULAR BASE OR STRUCTURAL CONCRETE BACKFILL.
- EXTERIOR FOOTINGS SHALL BEAR AT MIN. DEPTHS AS NOTED IN FOOTING SECTIONS AND PLANS, 30" BELOW EXTERIOR FINISH GRADE, OR INTO APPROVED BEARING STRATA, WHICHEVER DEPTH IS GREATER. NOTE THAT FOOTING BEARING ELEVATIONS GIVEN ON THE PLANS ARE ESTIMATED DEPTHS ONLY. WHERE UNSUITABLE SOIL IS ENCOUNTERED, FOOTING DEPTHS MAY VARY. EXCAVATION FOR FOOTINGS SHALL BE CUT TO ACCURATE SIZE AND DIMENSIONS AS SHOWN ON PLANS. ALL SOIL BELOW SLABS AND FOOTINGS SHALL BE PROPERLY COMPACTED AND SUBGRADE BROUGHT TO A REASONABLE TRUE AND LEVEL PLANE BEFORE PLACING CONCRETE.
  - CONTINUOUS FOOTINGS AND INDIVIDUAL FOOTINGS ARE DESIGNED FOR A NET ALLOWABLE SOIL BEARING OF:
    - CONTINUOUS FOOTINGS: 1500 PSF
    - INDIVIDUAL FOOTINGS: 1500 PSF
  - FOR EITHER NATURALLY OCCURRING SOIL OR COMPACTED ENGINEERED FILL.
- TYPICAL SLABS ON GRADE
  - THICKNESS: 4" THICK NORMAL WEIGHT CONCRETE
  - REINFORCING: 6x6-W1 4xW1.4 WELDED WIRE FABRIC (WWF)
  - VAPOR BARRIER: 15 MIL. (ASTM E1745 CLASS A)
  - SUBGRADE: A MINIMUM OF 4" OF FREE-DRAINING GRANULAR BASE, COMPACTED PER RECOMMENDATIONS OF GEOTECHNICAL ENGINEER.
  - MAINTAIN REINFORCING 1"-2" BELOW TOP SURFACE OF SLABS ON GRADE. PROVIDE BOLSTERS, CHAIRS OR OTHER MEANS APPROVED IN WRITING BY THE ENGINEER TO PROPERLY LOCATE REINFORCING. GRANULAR BASE SHALL BE #57 STONE OR APPROVED EQUAL UNLESS OTHERWISE INDICATED IN GEOTECHNICAL REPORT. REFER TO ASTM D448 FOR GRADATION.
  - IN SOME CASES 1.5 POUNDS (MIN.) OF POLYPROPYLENE FIBRILLATED FIBERS PER CUBIC YARD REINFORCING MAY BE SUBSTITUTED FOR THE WWF REINFORCING. ANY VISIBLE FIBERS REMAINING AFTER CONCRETE HAS CURED SHALL BE TORCHED OFF. THIS SUBSTITUTION IS NOT ALWAYS APPROPRIATE AND SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
- DRAINAGE FILL SHALL BE A FREE-DRAINING GRANULAR MATERIAL. USE #57 STONE OR EQUAL. REFER TO ASTM D448 FOR GRADATION. CONTRACTOR IS RESPONSIBLE TO MAINTAIN EXCAVATIONS AND BACKFILL MATERIAL AT AN APPROPRIATE MOISTURE CONTENT FOR PROPER SOIL BEARING CAPACITY AND COMPACTION. CONTRACTOR SHALL COORDINATE WITH THE CIVIL / SITE DRAWINGS TO DETERMINE WHETHER FOUNDATION DRAINS AROUND PERIMETER OF BUILDING AND/OR UNDER THE SLAB-ON-GRADE SHALL BE REQUIRED AND, IF SO, SHALL RUN TO DAYLIGHT OR EXTENDED TO THE STORM SEWER. AT RETAINING WALLS FILTER FABRIC SHALL BE PLACED AT THE INTERFACE BETWEEN THE DRAINAGE FILL AND EITHER NATURAL OR COMPACTED SUBGRADE. PERFORATED DRAINS SHALL ALSO BE WRAPPED WITH FILTER FABRIC.
- SLABY CONTROL JOINTS SHALL BE PLACED AS SOON AS CONCRETE IS ABLE TO BE SAWN WITHOUT PULLING OUT AGGREGATE FROM FLOOR. SLABS SHALL NOT BE LEFT OVERNIGHT, OR ANY REASONABLE AMOUNT OF TIME, WITHOUT SAWING JOINTS. WEATHER IS CRITICAL TO SCHEDULE OF SAWY JOINTS. IF LARGE AREAS OF SLAB ARE POURED AT ONE TIME, SEVERAL SAWS MAY BE REQUIRED TO PROVIDE JOINTS IN TIME TO PREVENT SHRINKAGE CRACKING. PROPER JOINTING OF SLAB IS CRITICAL. REFER TO ACI MANUAL OF CONCRETE PRACTICE FOR PROPER JOINTING TECHNIQUES.
- DETAILING MATERIALS AND INSTALLATION OF CONCRETE REINFORCING STEEL SHALL MEET REQ. AS SET FORTH BY CRSI AND THE AMERICAN CONCRETE INSTITUTE AND THE APPLICABLE BUILDING CODE. SHOP DRAWINGS SHALL BE SUBMITTED INDICATING COMPLETE INFORMATION REQUIRED FOR CONSTRUCTION OF THE REINFORCED CONCRETE ELEMENTS. SHOP DRAWINGS SHALL INCLUDE LAYOUT AND DIMENSIONS OF REINFORCING INCLUDING ANY OPENINGS, CONVENTIONAL REINFORCEMENT DETAILS, CONNECTION DETAILS, PROCEDURES AND SEQUENCES ETC.
- WHEN PLACING CONCRETE IN HOT WEATHER, REFER TO ACI 301. WHEN PLACING CONCRETE IN COLD WEATHER, REFER TO ACI 308.1.

#### COMPONENTS AND CLADDING WIND PRESSURE

- BUILDING ELEMENTS SHALL BE DESIGNED FOR THE APPROPRIATE COMPONENTS AND CLADDING WIND PRESSURES GIVEN IN THE TABLES BELOW BASED ON THE ELEMENTS ZONE AND EFFECTIVE WIND AREA. PRESSURES PROVIDED ARE ULTIMATE AND ARE UNFACTORED.
- ZONE 2, 3 AND 5 PRESSURES SHALL BE APPLIED WITHIN 1'-4" OF ALL WALL AND ROOF EDGES AND CORNERS PER ASCE 7-10 FIGURES 30.4-1 & 30.4-2A.
- ELEMENTS WITH TRIBUTARY AREAS GREATER THAN 700 SQUARE FEET SHALL BE PERMITTED TO BE DESIGNED USING THE PROVISIONS FOR MWFRS.

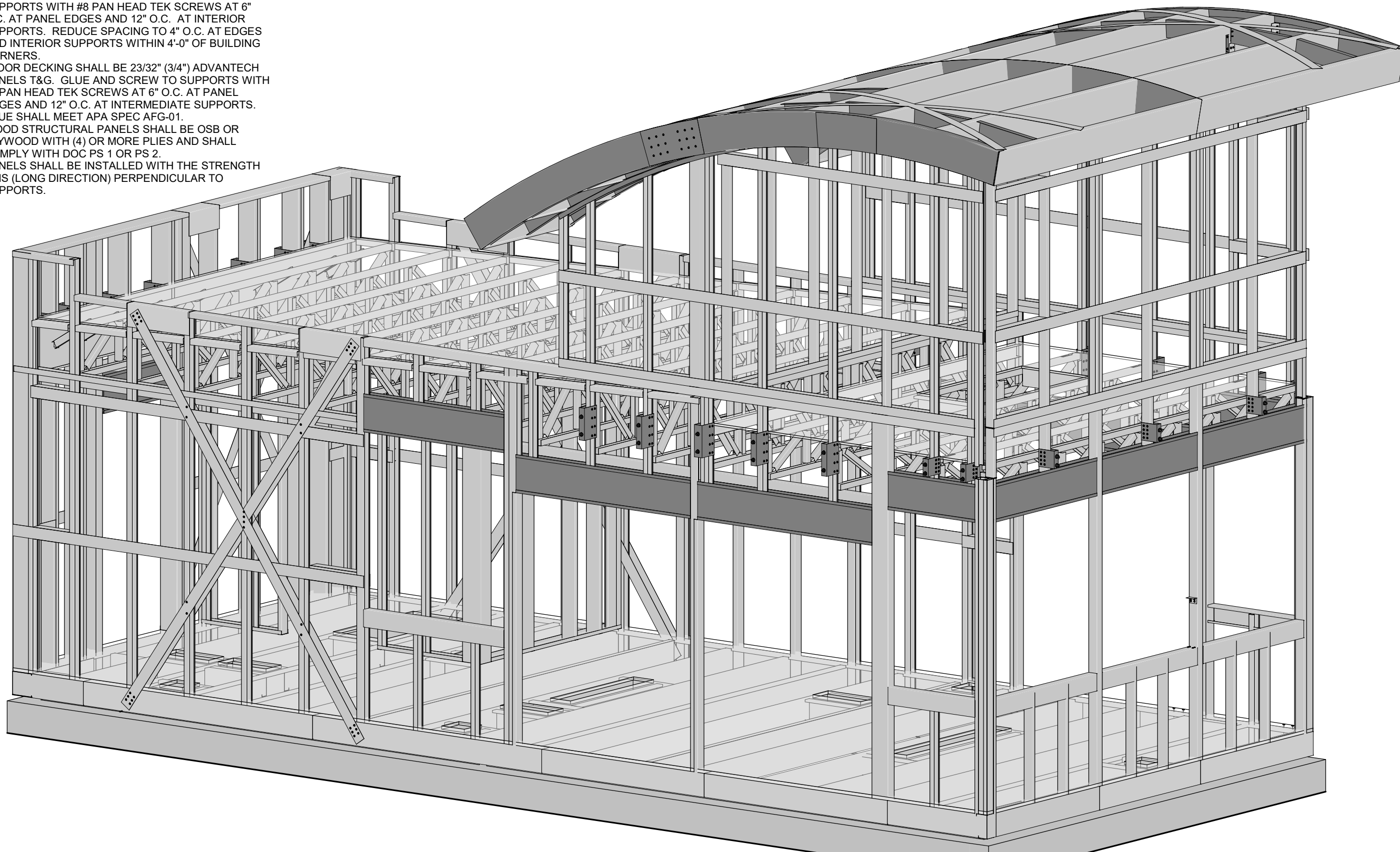
ROOF C&C PRESSURES			
GROSS UPLIFT			
OPEN WEB JOISTS	ZONE 1	27 PSF	
	ZONE 2	32 PSF	
	ZONE 3	32 PSF	
METAL DECK	ZONE 1	29 PSF	
	ZONE 2	49 PSF	
	ZONE 3	73 PSF	
NET UPLIFT			
OPEN WEB JOISTS	ZONE 1	24 PSF	
	ZONE 2	29 PSF	
	ZONE 3	29 PSF	
METAL DECK	ZONE 1	27 PSF	
	ZONE 2	47 PSF	
	ZONE 3	71 PSF	

WALL C&C PRESSURES		
EFFECTIVE WIND AREA (FT²)	ZONE 4 NEG. PRESSURE	ZONE 5 NEG. PRESSURE
10	41 PSF	50 PSF
20	39 PSF	47 PSF
50	37 PSF	42 PSF
100	34 PSF	39 PSF
500+	31 PSF	31 PSF

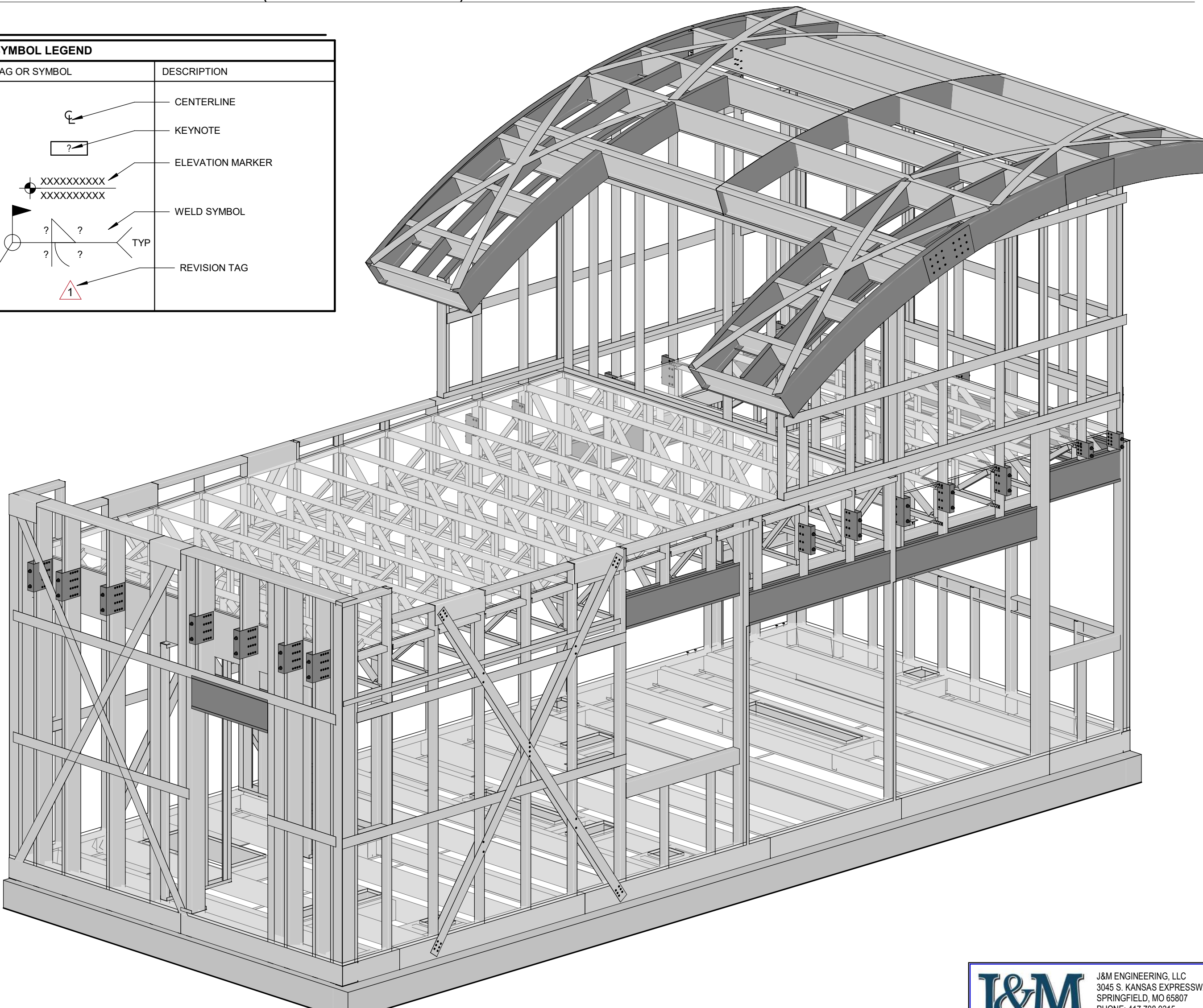
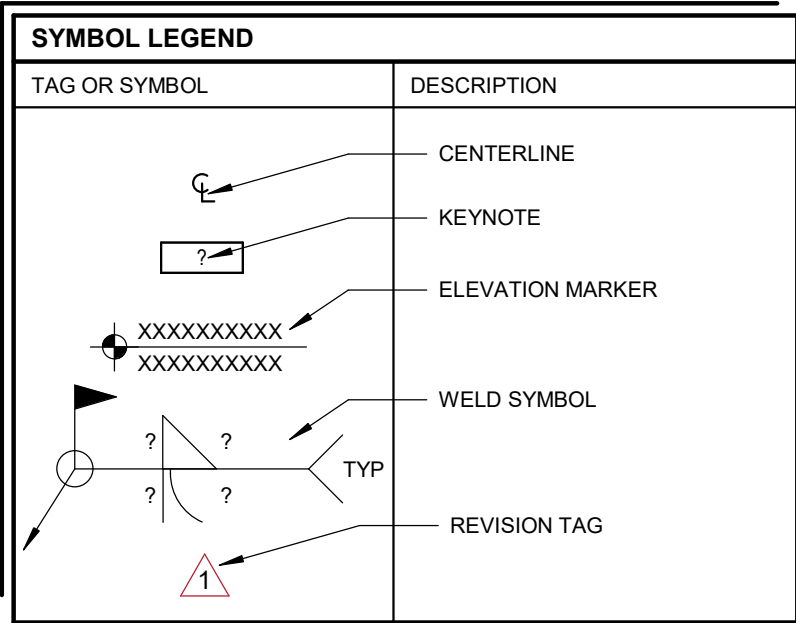
#### WOOD SHEATHING & DECKING NOTES ANCHORED TO LIGHT GAUGE

- TYPICAL WALL SHEATHING SHALL BE 7/16" (1/2") APA RATED 24/16 STRUCTURAL, 1 EXPOSED, 1 PANELS. SCREW TO SUPPORTS WITH #8 PAN HEAD TEK SCREWS AT 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. PROVIDE LIGHT GAUGE BLOCKING AT ALL PANEL EDGES. SEE SHEAR WALL SCHEDULE FOR REQUIREMENTS AT SHEAR WALLS.
- ROOF DECKING SHALL BE 19/32" (5/8") STRUCTURAL, 1 EXPOSED, 1 APA RATED 40/20 TONGUE AND GROOVE PANELS. "H" CLIPS MAY BE USED AT THE CONTRACTOR'S OPTION IN LIEU OF T&G. SCREW TO SUPPORTS WITH #8 PAN HEAD TEK SCREWS AT 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERIOR SUPPORTS. REDUCE SPACING TO 4" O.C. AT EDGES AND INTERIOR SUPPORTS WITHIN 4'-0" OF BUILDING CORNERS.
- FLOOR DECKING SHALL BE 23/32" (3/4") ADVANTECH PANELS T&G. GLUE AND SCREW TO SUPPORTS WITH #8 PAN HEAD TEK SCREWS AT 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. GLUE SHALL MEET APA SPEC AF-01.
- WOOD STRUCTURAL PANELS SHALL BE OSB OR PLYWOOD WITH (4) OR MORE PLYS AND SHALL COMPLY WITH DOC PS 1 OR PS 2.
- PANELS SHALL BE INSTALLED WITH THE STRENGTH AXIS (LONG DIRECTION) PERPENDICULAR TO SUPPORTS.

#### ISOMETRIC VIEWS FOR REFERENCE ONLY



#### ISOMETRIC VIEW FRONT SIDE (MODULAR BUILDING)



#### ISOMETRIC VIEW BACK SIDE (MODULAR BUILDING)

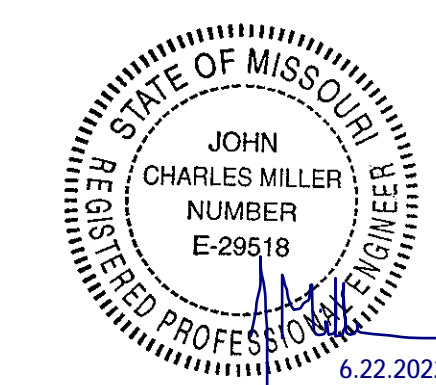
#### BUILDING SUPPLIER / ERECTOR CREATIVE MODULAR CONSTRUCTION

#### TORGERSON DESIGN PARTNERS ARCHITECTURE / REAL ESTATE / DEVELOPMENT



#### 7 BREW COFFEE LEE'S SUMMIT, MO

1410 NE DOUGLAS STREET  
LEE'S SUMMIT, MISSOURI 64086



#### ENGINEER OF RECORD:

JOHN C. MILLER  
E-29518  
E-2011011004

PROJECT NUMBER:  
220337BL5

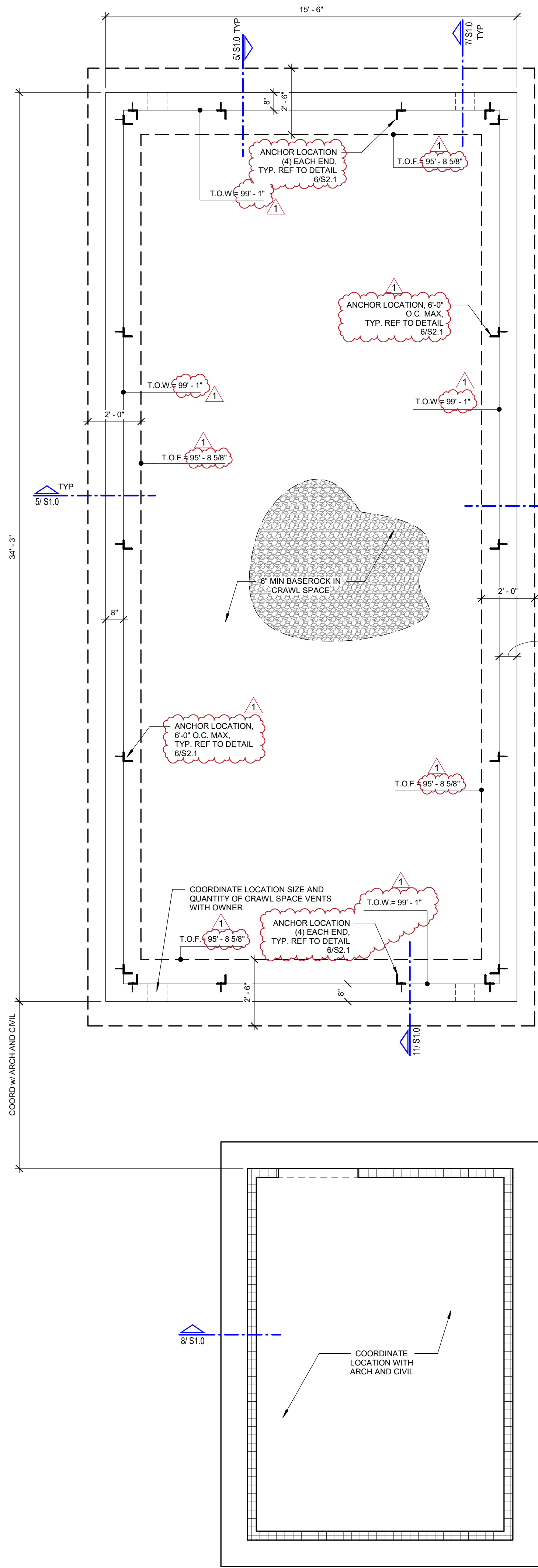
#### REVISION:

#### S0.0 GENERAL NOTES

DATE: 04/22/2022







BAR SIZE	STRAIGHT DOWEL DEVELOPMENT LENGTHS (INCHES)								
	TENSION						COMPRESSION		
	OTHER BARS			TOP BARS					
	3000 PSI CONCRETE	4000 PSI CONCRETE	5000 PSI CONCRETE	3000 PSI CONCRETE	4000 PSI CONCRETE	5000 PSI CONCRETE	3000 PSI CONCRETE	4000 PSI CONCRETE	5000 PSI CONCRETE
#3	17	15	13	22	19	17	9	8	8
#4	22	19	17	29	25	22	11	10	9
#5	28	24	22	36	31	28	14	12	12
#6	33	29	26	43	37	33	17	15	14
#7	48	42	37	63	54	49	20	17	16
#8	55	48	43	72	62	55	22	19	18
#9	62	54	48	81	70	63	25	22	21
#10	70	61	54	91	79	70	28	25	23
#11	78	67	60	101	87	78	31	27	25

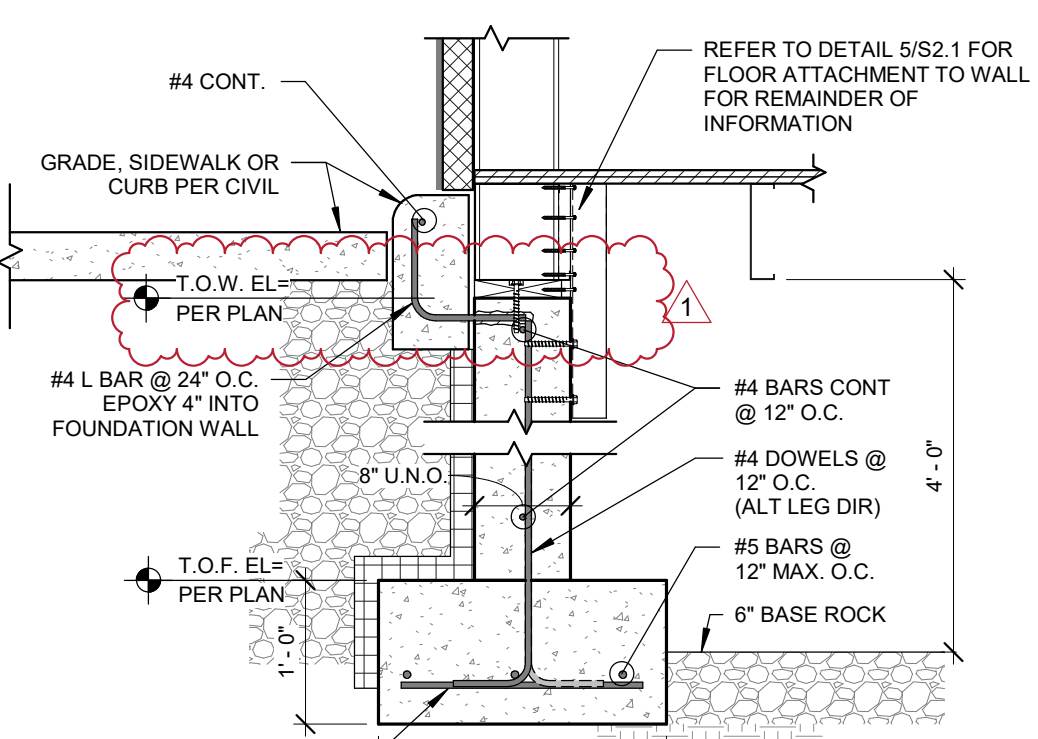
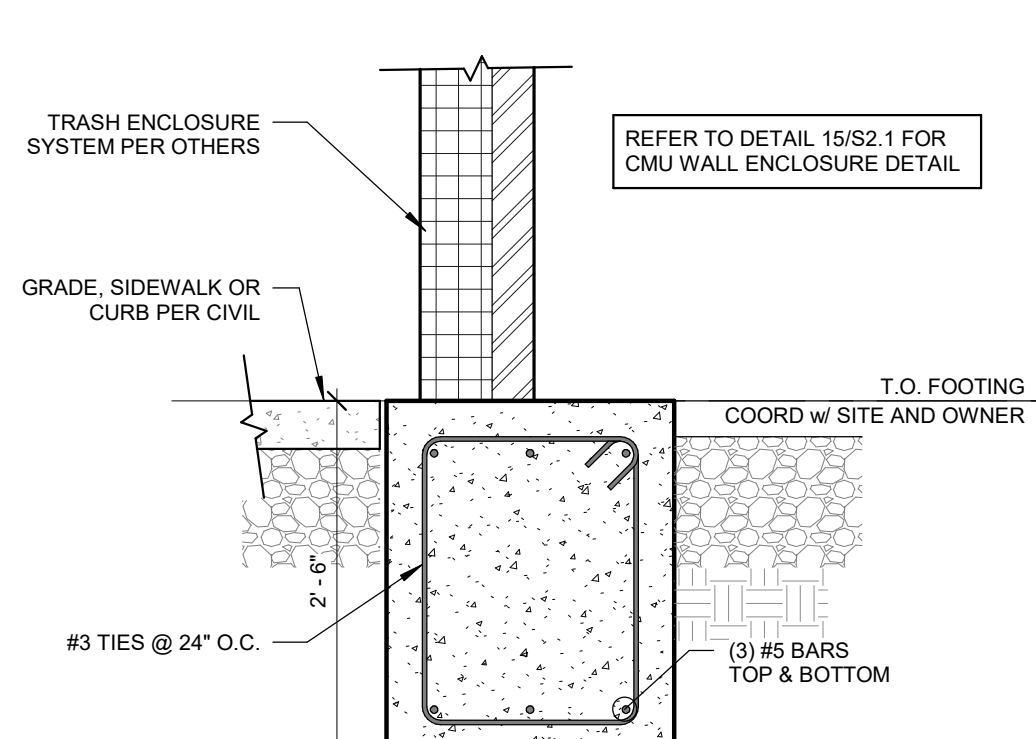
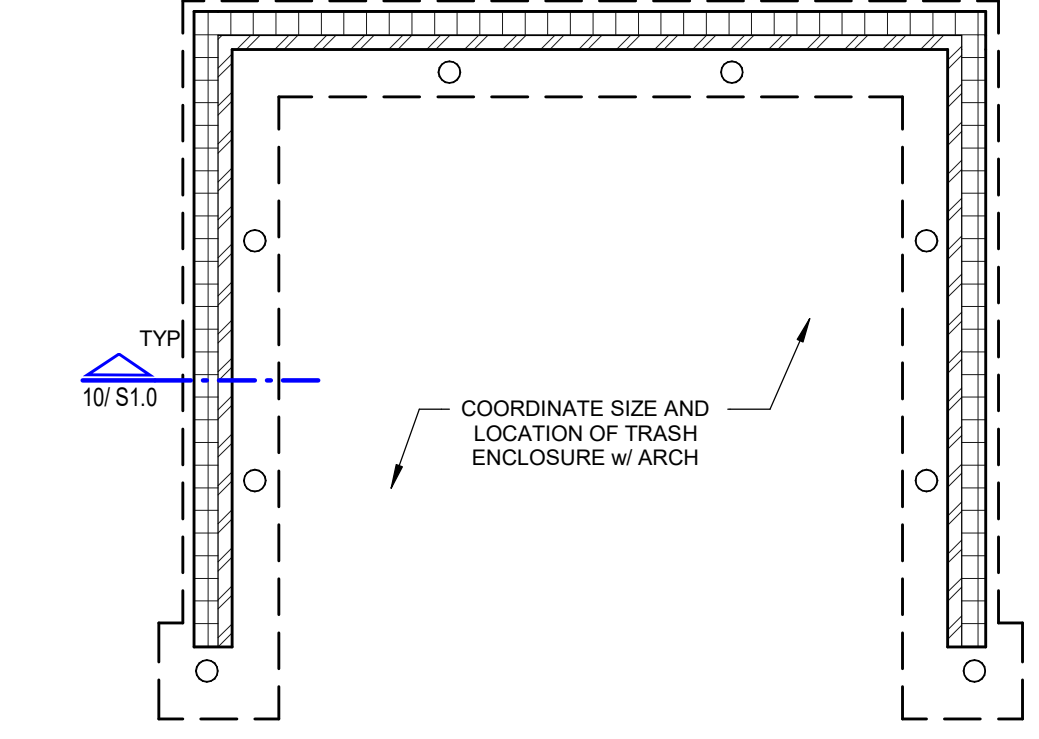
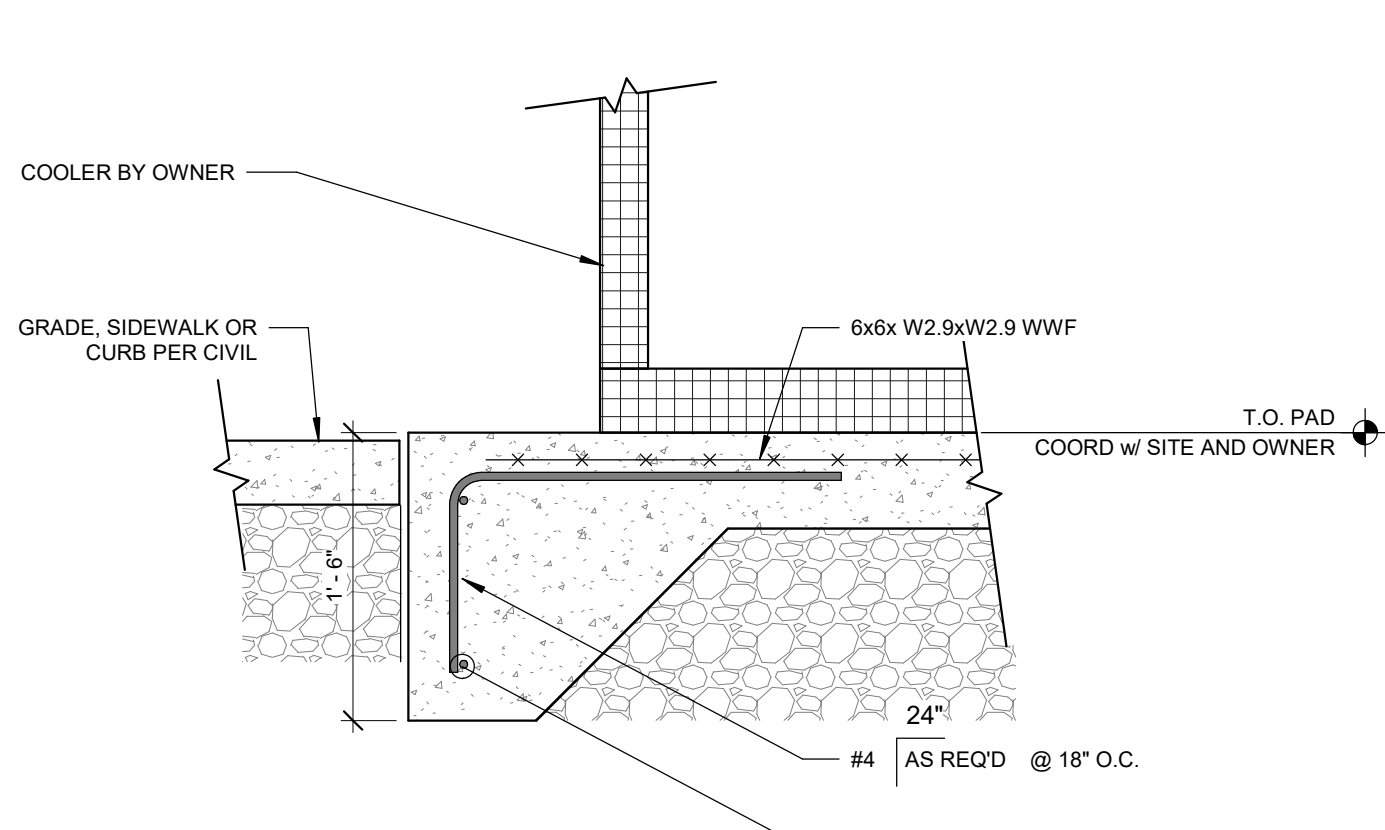
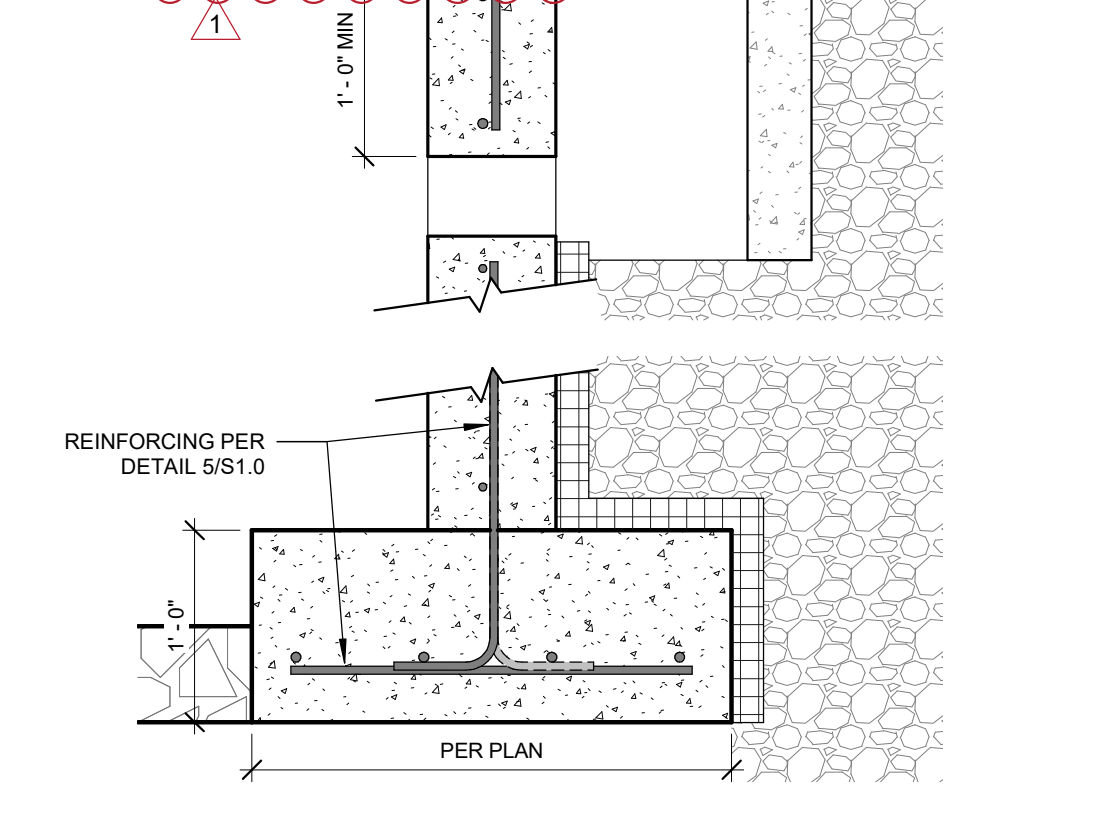
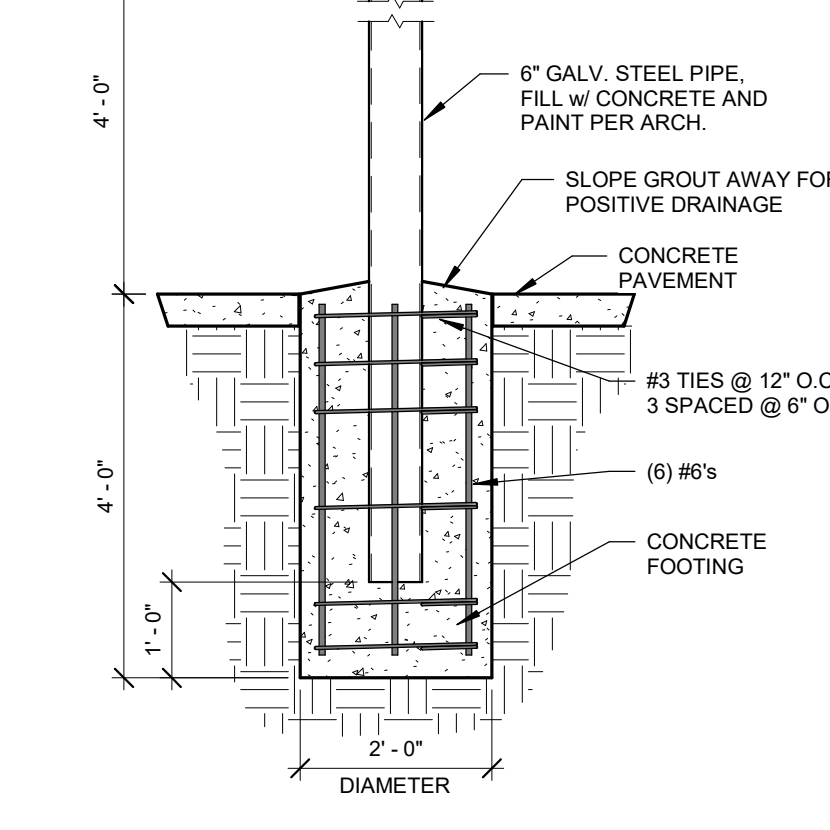
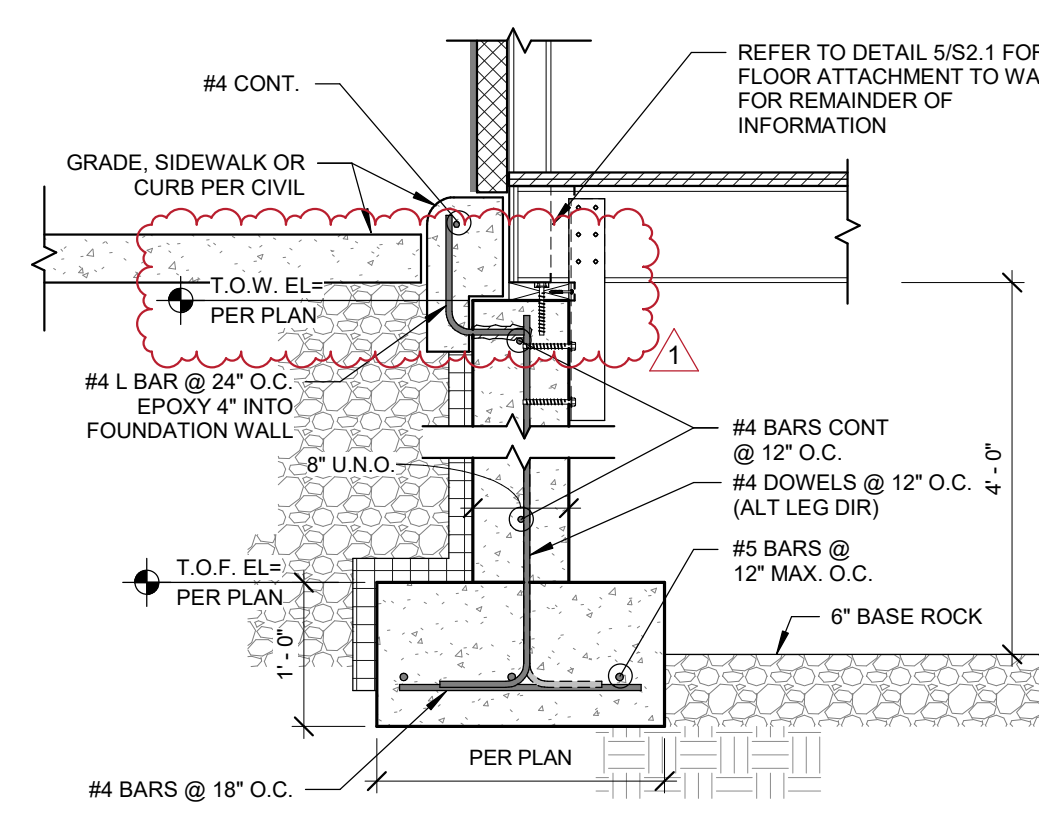
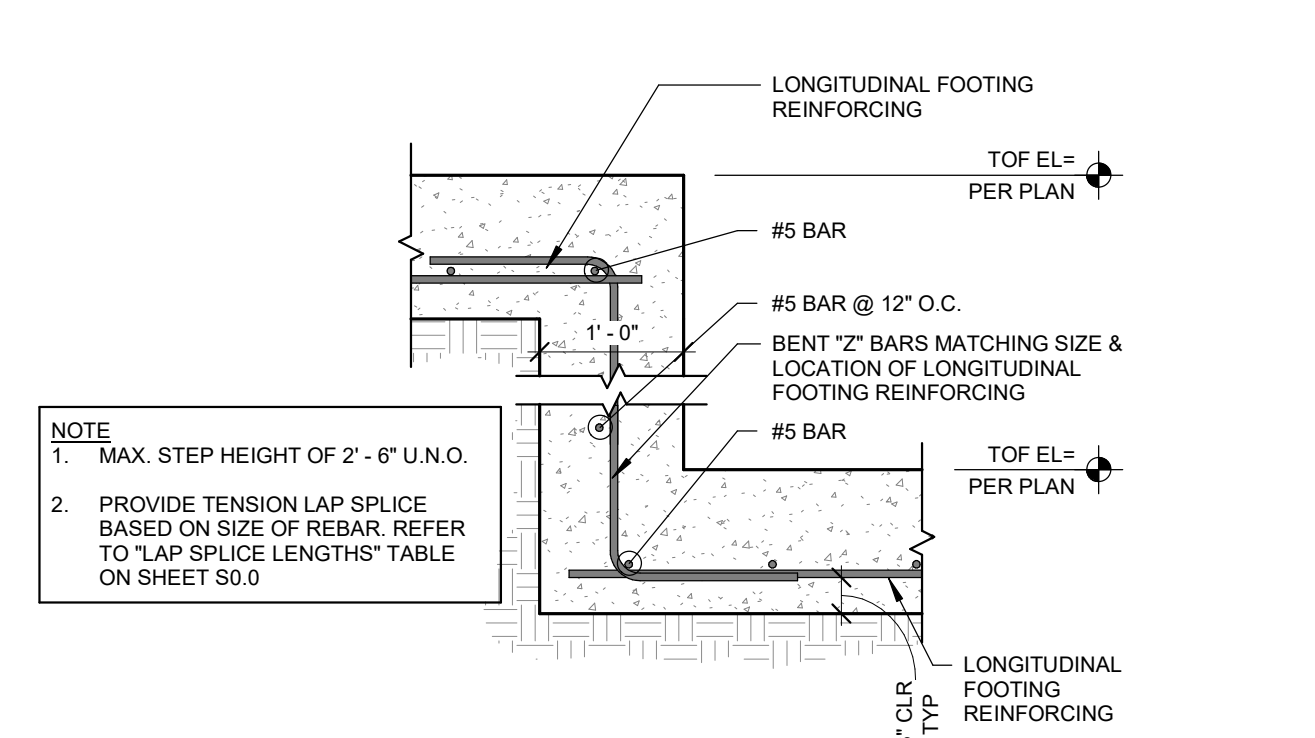
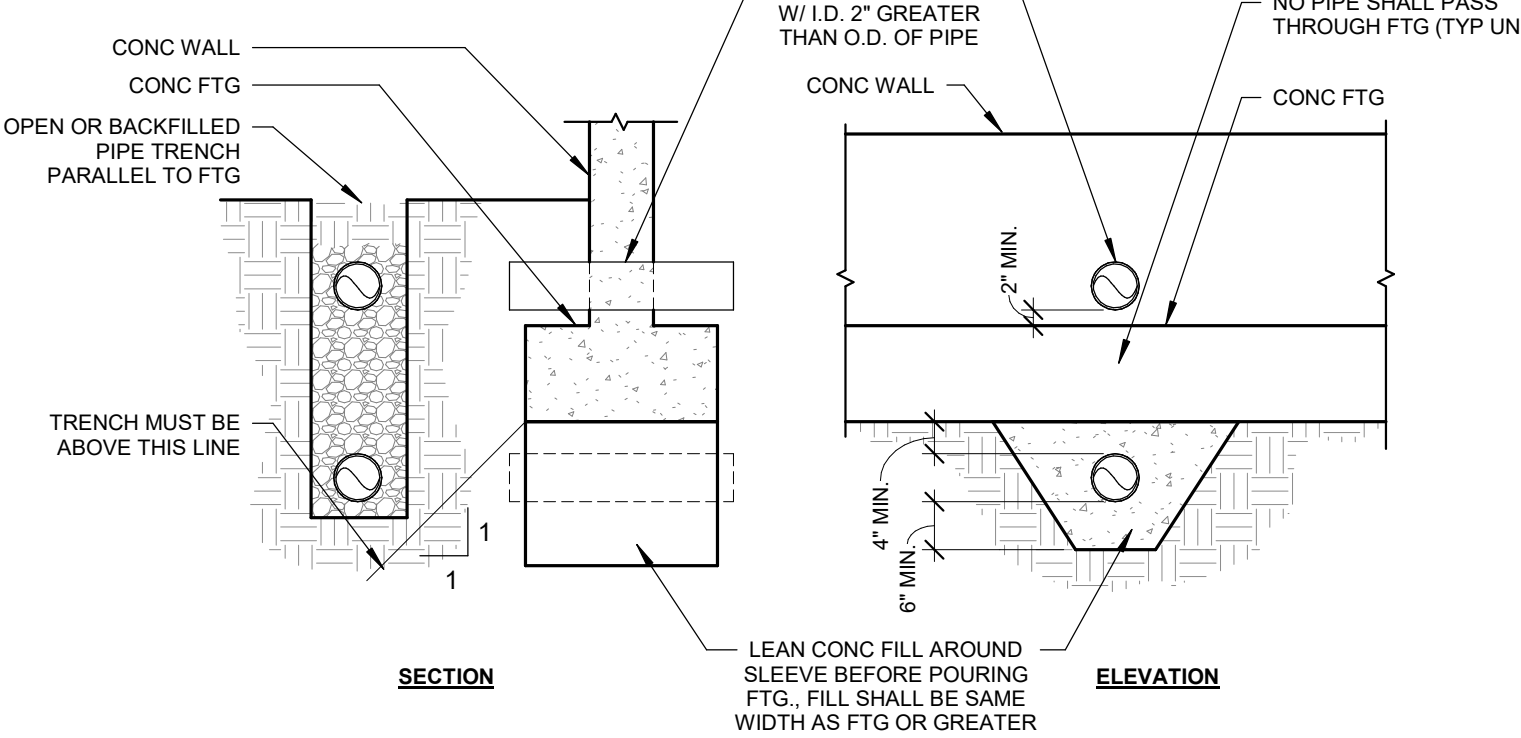
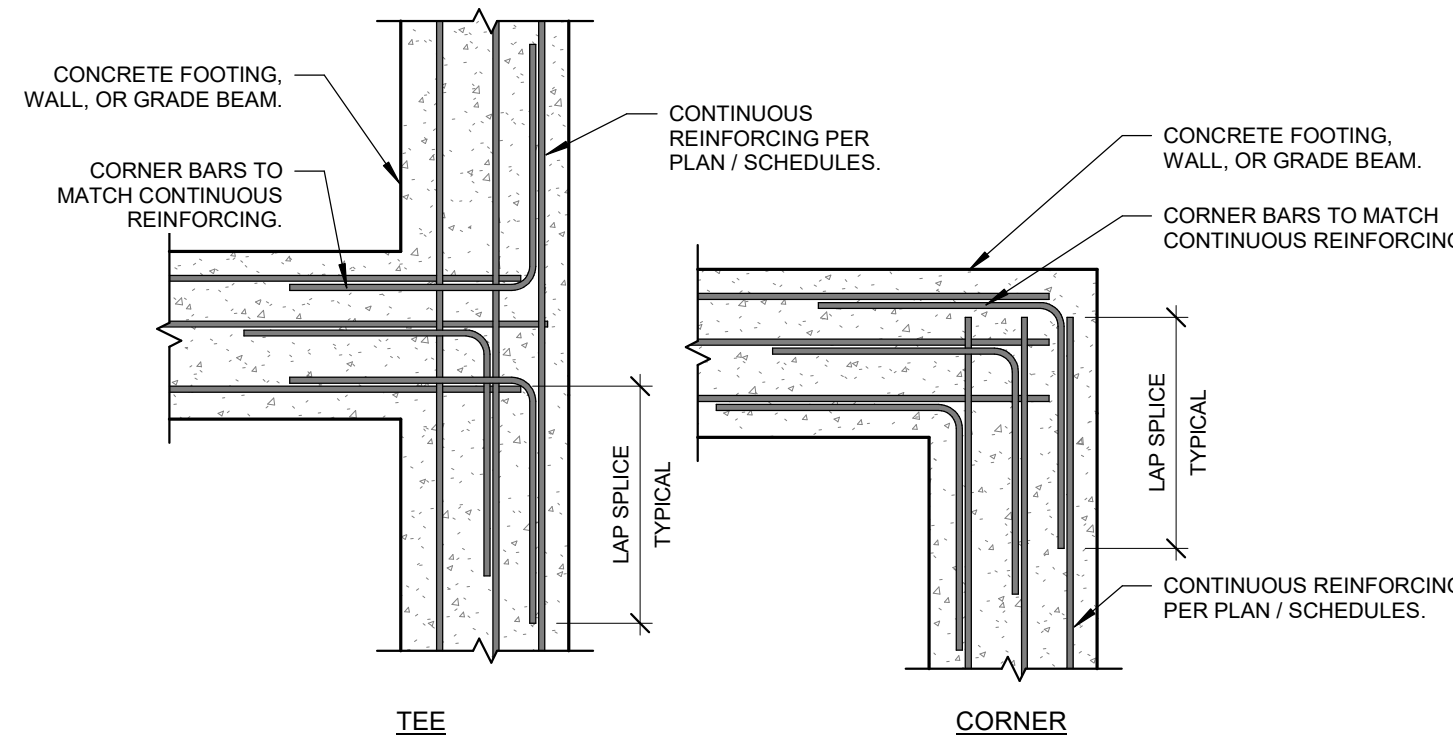
NOTES:  
1. TOP BARS ARE HORIZONTAL REINFORCEMENT PLACED SO THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.  
2. LAP SPlice LENGTHS ARE BASED ON BARS SPACED AT (2) BAR DIAMETERS OR MORE ON CENTER W/ (1) BARS DIAMETER MINIMUM ON CONCRETE COVER. NOTIFY ENGINEER IF SPACING IS LESS THAN (2) BAR DIAMETERS.

BAR SIZE	LAP SPlice LENGTHS (INCHES)								
	TENSION (CLASS B SPlice)						COMPRESSION		
	OTHER BARS			TOP BARS					
	3000 PSI CONCRETE	4000 PSI CONCRETE	5000 PSI CONCRETE	3000 PSI CONCRETE	4000 PSI CONCRETE	5000 PSI CONCRETE	3000 PSI CONCRETE	4000 PSI CONCRETE	5000 PSI CONCRETE
#3	22	19	17	28	24	22	12		
#4	29	25	22	37	32	29	15		
#5	36	31	28	47	40	36	19		
#6	43	37	33	56	48	43	23		
#7	63	54	49	81	70	63	27		
#8	72	62	55	93	80	72	30		
#9	81	70	63	105	91	81	34		
#10	91	79	70	118	102	91	38		
#11	101	87	78	131	113	101	43		

NOTES:  
1. TOP BARS ARE HORIZONTAL REINFORCEMENT PLACED SO THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.  
2. LAP SPlice LENGTHS ARE BASED ON BARS SPACED AT (2) BAR DIAMETERS OR MORE ON CENTER W/ (1) BAR DIAMETER MINIMUM OF CONCRETE COVER. NOTIFY ENGINEER IF SPACING IS LESS THAN (2) BAR DIAMETERS.

BAR SIZE	HOOKED DOWEL DEVELOPMENT LENGTHS IN TENSION (INCHES)					
	EMBEDMENT			EXTENSION		MINIMUM RADIUS OF BEND (INCHES)
	3000 PSI CONCRETE	4000 PSI CONCRETE	5000 PSI CONCRETE	90 DEG HOOK	180 DEG HOOK	
#3	8	7	6	4.5	2.5	1.50
#4	11	9	8	6.0	2.5	2.00
#5	14	12	11	7.5	2.5	2.50
#6	16	14	13	9.0	3.0	3.00
#7	19	17	15	10.5	3.5	3.50
#8	22	19	17	12.0	4.0	4.00
#9	25	21	19	13.5	4.5	5.64
#10	28	24	22	15.2	5.1	6.35
#11	31	27	24	16.9	5.6	7.05

NOTES:  
RADIUS OF BEND  
EXTENSION  
90 DEG HOOK  
RADIUS OF BEND  
EXTENSION  
180 DEG HOOK



**TORGERSON**  
**DESIGN PARTNERS**  
ARCHITECTURE / REAL ESTATE / DEVELOPMENT

116 NORTH 2ND AVENUE - OZARK, MO 65721 - P (417) 581-8889 - F (417) 581-9000  
Lee's Summit, Missouri  
09/07/2022

ARCHITECTURAL CORPORATION MISSOURI LICENSE NUMBER: A-2010011427

**CMC**  
CREATIVE MODULAR CONSTRUCTION

7 BREW COFFEE  
LEE'S SUMMIT, MO  
1410 NE DOUGLAS STREET  
LEE'S SUMMIT, MISSOURI 64086

STATE OF MISSOURI  
REGISTERED PROFESSIONAL ENGINEER  
JOHN CHARLES MILLER  
NUMBER E-29518  
6.22.2022

ENGINEER OF RECORD:  
JOHN C. MILLER  
E-29518  
E-2011011004

PROJECT NUMBER:  
220337BLS

REVISION:  
1 06/22/2022 ADD 001

**S1.0**  
FOUNDATION & DETAILS  
DATE: 04/22/2022



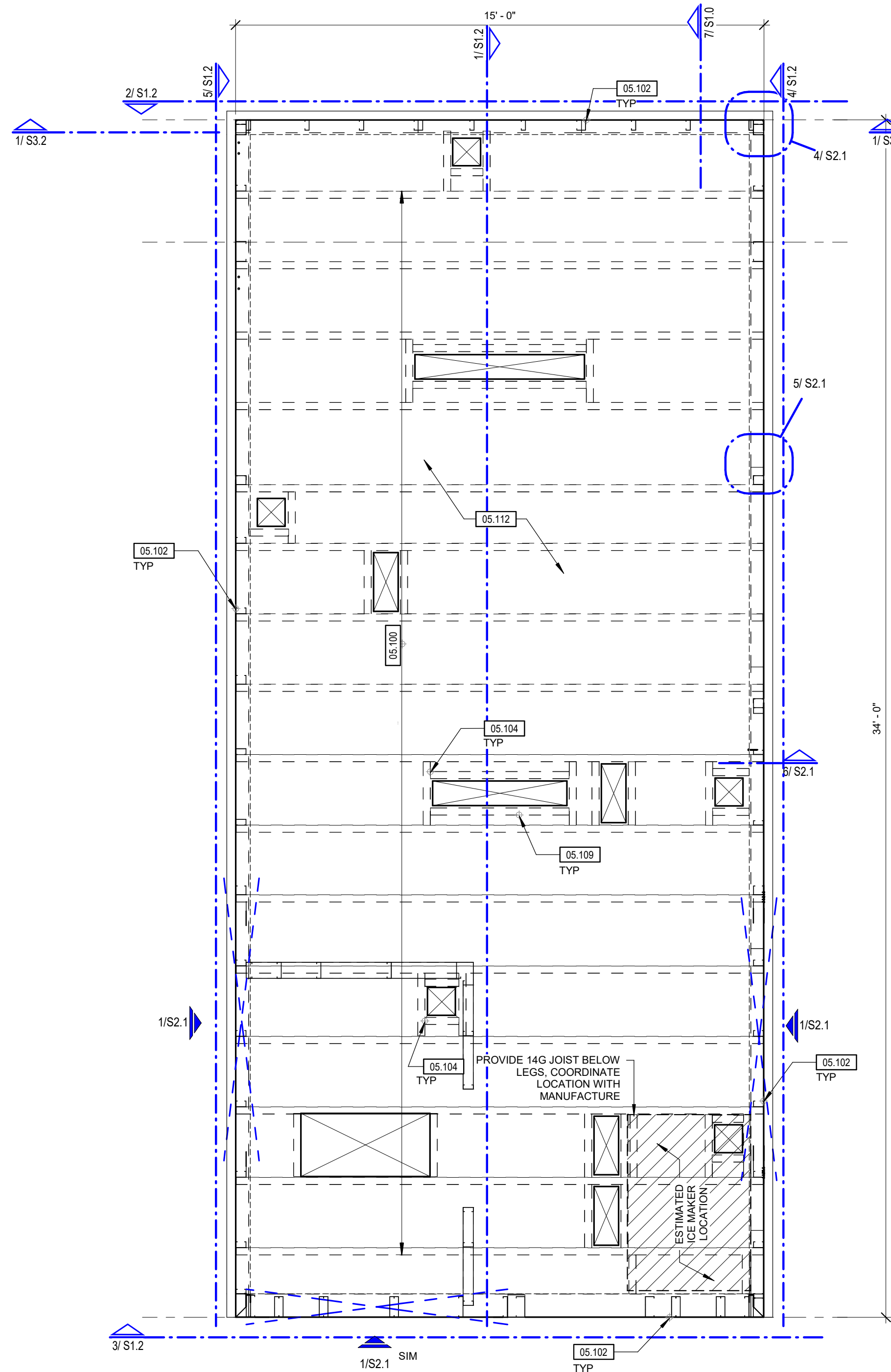
PLAN NOTES - FRAMING

- MECHANICAL EQUIPMENT WEIGHTS AND LOCATIONS ARE ESTIMATED ONLY. COORDINATE ALL RTU EQUIPMENT LOCATIONS AND CURBS WITH MEP AND ARCH.
- COORDINATE ROOF OPENINGS WITH MEP AND ARCH. PROVIDE SUPPLEMENTAL FRAMING PER NOTES AND DETAILS AT OPENINGS.
- MECHANICAL HANGERS AND OTHER ITEMS SUPPORTED FROM TRUSS FRAMING ARE TO BE SUPPORTED AT PANEL POINTS ONLY.
- PROVIDE (2) 3/4" BOLTS AT EACH LIFTING POINT LOCATION.

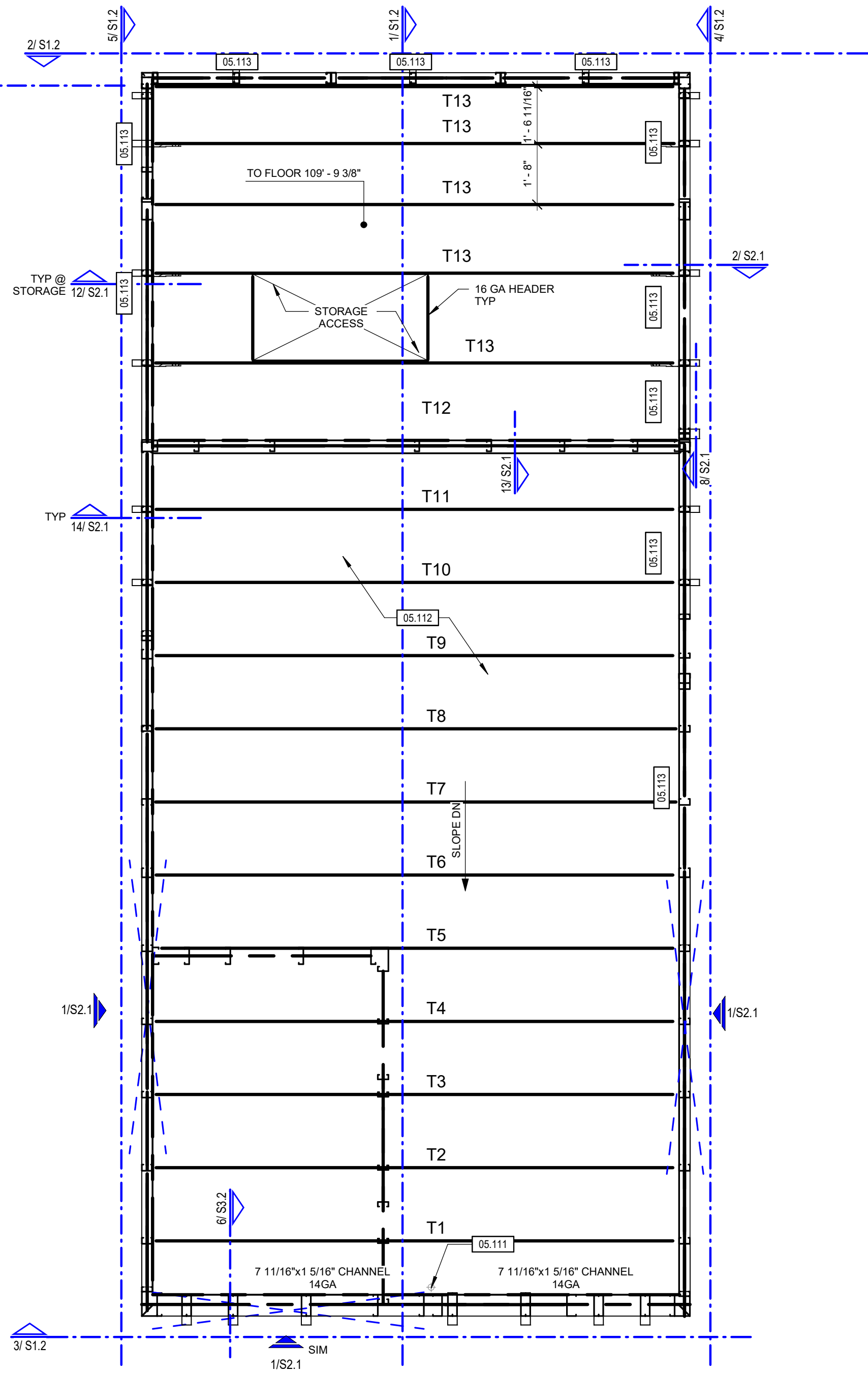
KEYNOTE LEGEND

KEYNOTE	DESCRIPTION
05.100	7.840" x 2 1/2" 14 GA FLOOR JOIST SPACING @ 24" O.C. MAX.
05.102	16 GA STUD WITH A TOP AND BOTTOM 16 GA TRACK WITH 2" VERTICAL LEGS
05.104	12 GA CLIP
05.108	12" x 2 1/2" 14 GA ROOF JOIST SPACED @ 24" O.C. MAX.
05.109	PROVIDE FLOOR JOIST BOX FRAME AT ALL OPENINGS, MATCH GA OF FLOOR JOIST.
05.111	18 1/8" x 2 1/2" 14 GA JOIST, @ ROOF DECK BEARING.
05.112	ALL EXACT MEMBER SIZES PER MODULAR BUILDING SUPPLIERS ENGINEERING.
05.113	HEADER PER MODULAR BUILDING SUPPLIERS ENGINEERING.

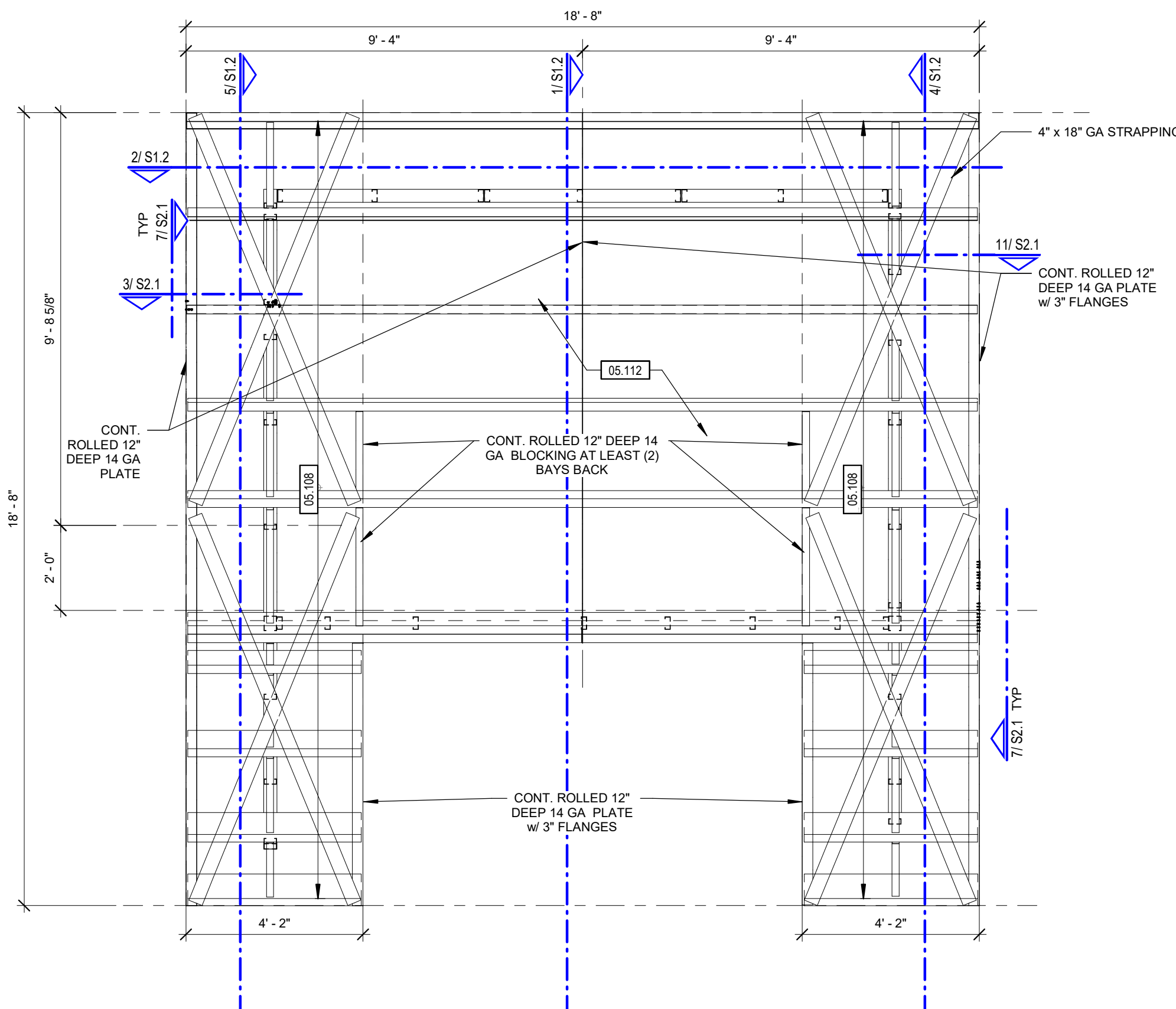
THESE DRAWINGS INDICATE THE GENERAL REQUIREMENTS FOR A CUSTOM FABRICATED STRUCTURAL SYSTEM, BY CREATIVE MODULAR CONSTRUCTION



1 FLOOR PLAN  
3/8" = 1'-0"



2 ROOF AND STORAGE  
3/8" = 1'-0"



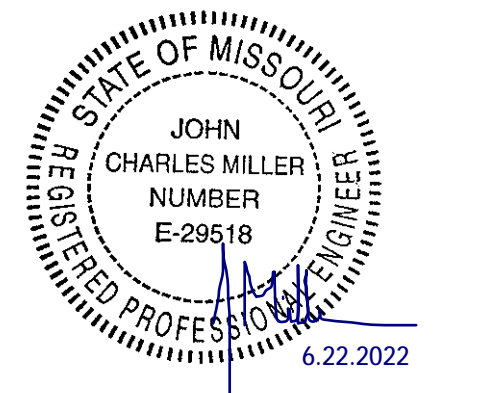
3 ARC ROOF CANOPY  
3/8" = 1'-0"





7 BREW COFFEE  
LEE'S SUMMIT, MO

1410 NE DOUGLAS STREET  
LEE'S SUMMIT, MISSOURI 64086

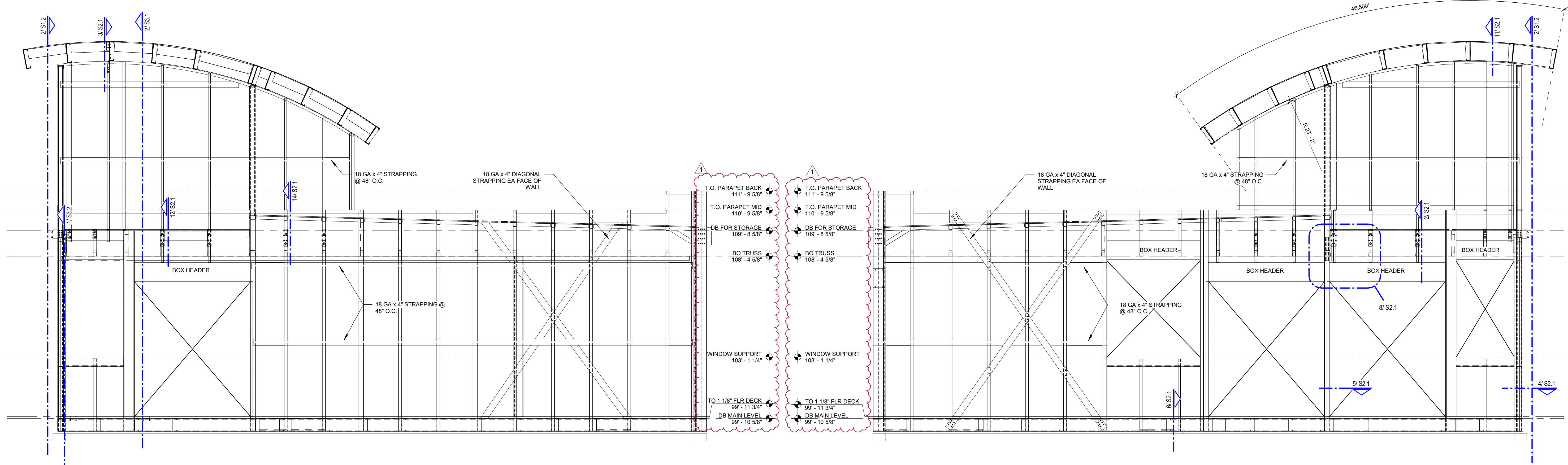


ENGINEER OF RECORD:  
JOHN C. MILLER  
E-29518  
E-2011011004

PROJECT NUMBER:  
220337BLS

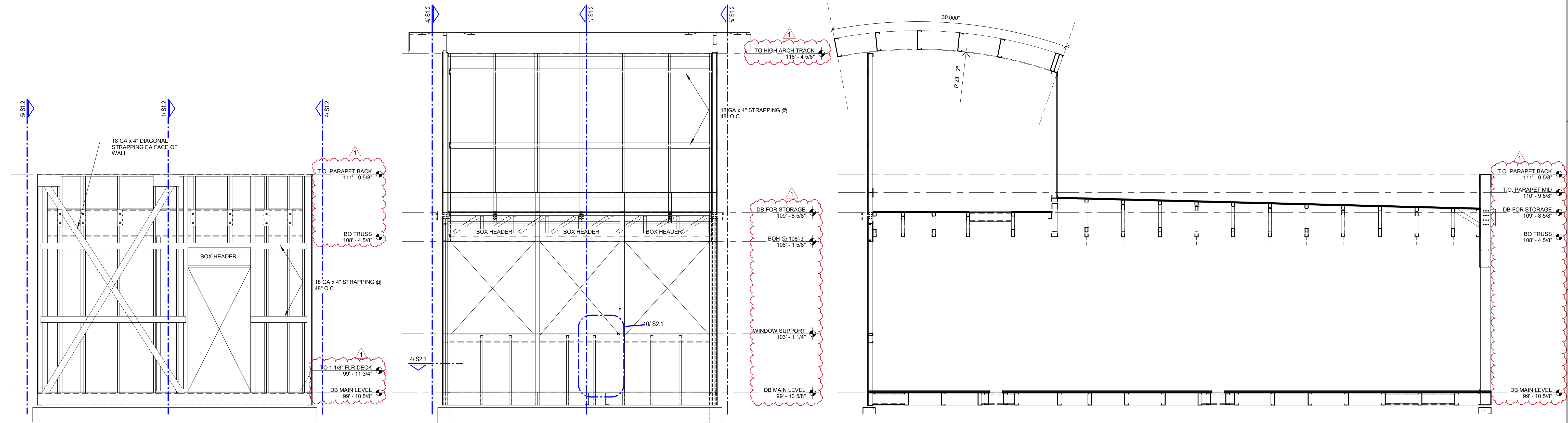
REVISION:  
1 06/22/2022 ADD 001

S1.2  
ELEVATIONS &  
SECTIONS  
DATE: 04/22/2022



5 MILK SIDE ELEVATION  
3/8" = 1'-0"

4 SHOT SIDE ELEVATION  
3/8" = 1'-0"

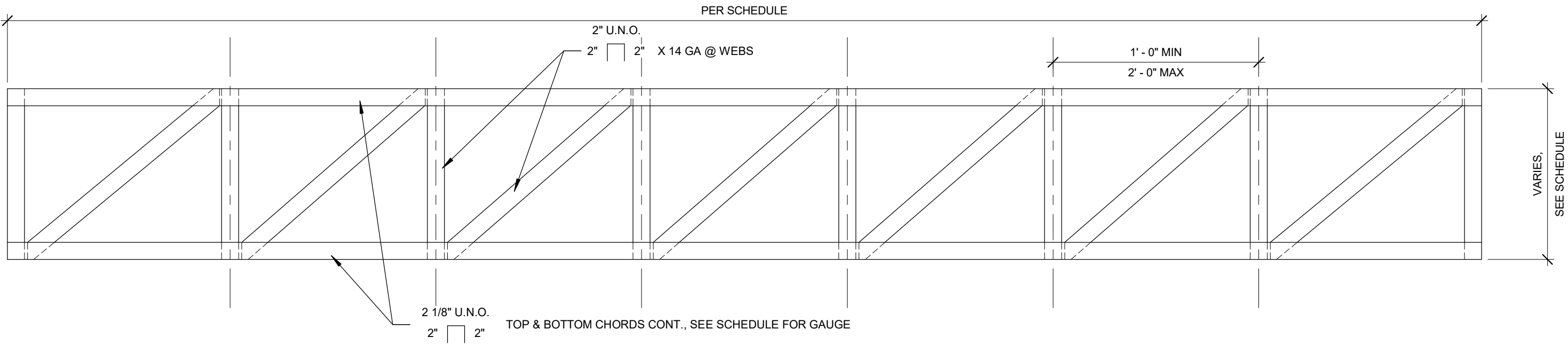


3 SHORT ENDWALL ELEVATION  
3/8" = 1'-0"

2 ENDWALL ELEVATION  
3/8" = 1'-0"

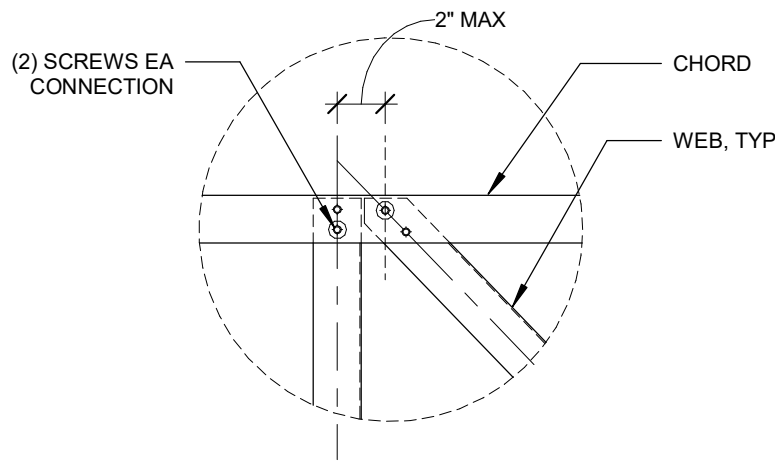
1 LONGITUDINAL MIDDLE SECTION  
3/8" = 1'-0"



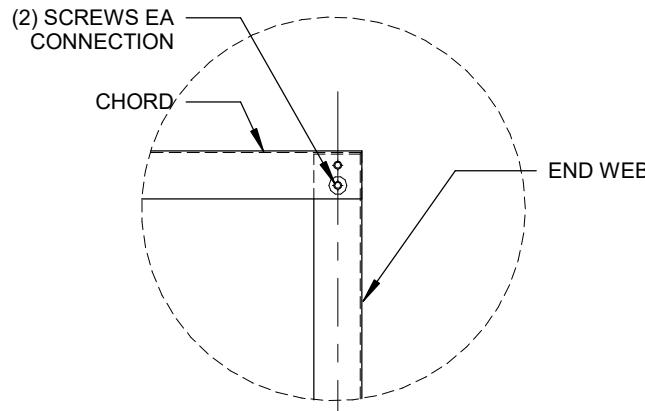


TRUSS	DEPTH	WEB WIDTH	LENGTH	CHORD GAUGE
T1	18 9/16"	2.5"	14' - 4 5/8"	14
T2	19 3/16"	2.5"	14' - 4 5/8"	14
T3	19 13/16"	2.5"	14' - 4 5/8"	14
T4	20 7/16"	2.5"	14' - 4 5/8"	14
T5	21 1/16"	2.5"	14' - 4 5/8"	14
T6	21 11/16"	2.5"	14' - 4 5/8"	14
T7	22 5/16"	2.5"	14' - 4 5/8"	14
T8	22 15/16"	2.5"	14' - 4 5/8"	14
T9	23 1/2"	2.5"	14' - 4 5/8"	14
T10	24 1/8"	2.5"	14' - 4 5/8"	14
T11	24 3/4"	2.5"	14' - 4 5/8"	14
T12	25 3/8"	2.5"	14' - 4 5/8"	14
T13	16"	2.5"	14' - 11 3/4"	14

1 TYPICAL LONG TRUSS ELEVATION  
1" = 1'-0"



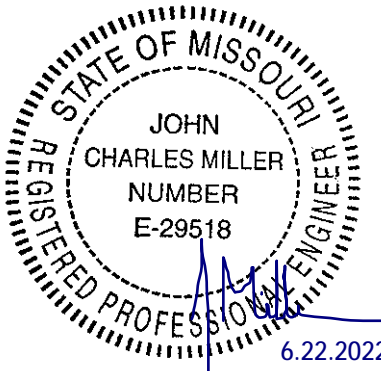
2 TYPICAL TRUSS MEMBER CONNECTION  
1 1/2" = 1'-0"



3 TYPICAL TRUSS END MEMBER CONNECTION  
1 1/2" = 1'-0"



7 BREW COFFEE  
LEE'S SUMMIT, MO  
1410 NE DOUGLAS STREET  
LEE'S SUMMIT, MISSOURI 64086



ENGINEER OF RECORD:  
JOHN C. MILLER  
E-29518  
E-2011011004

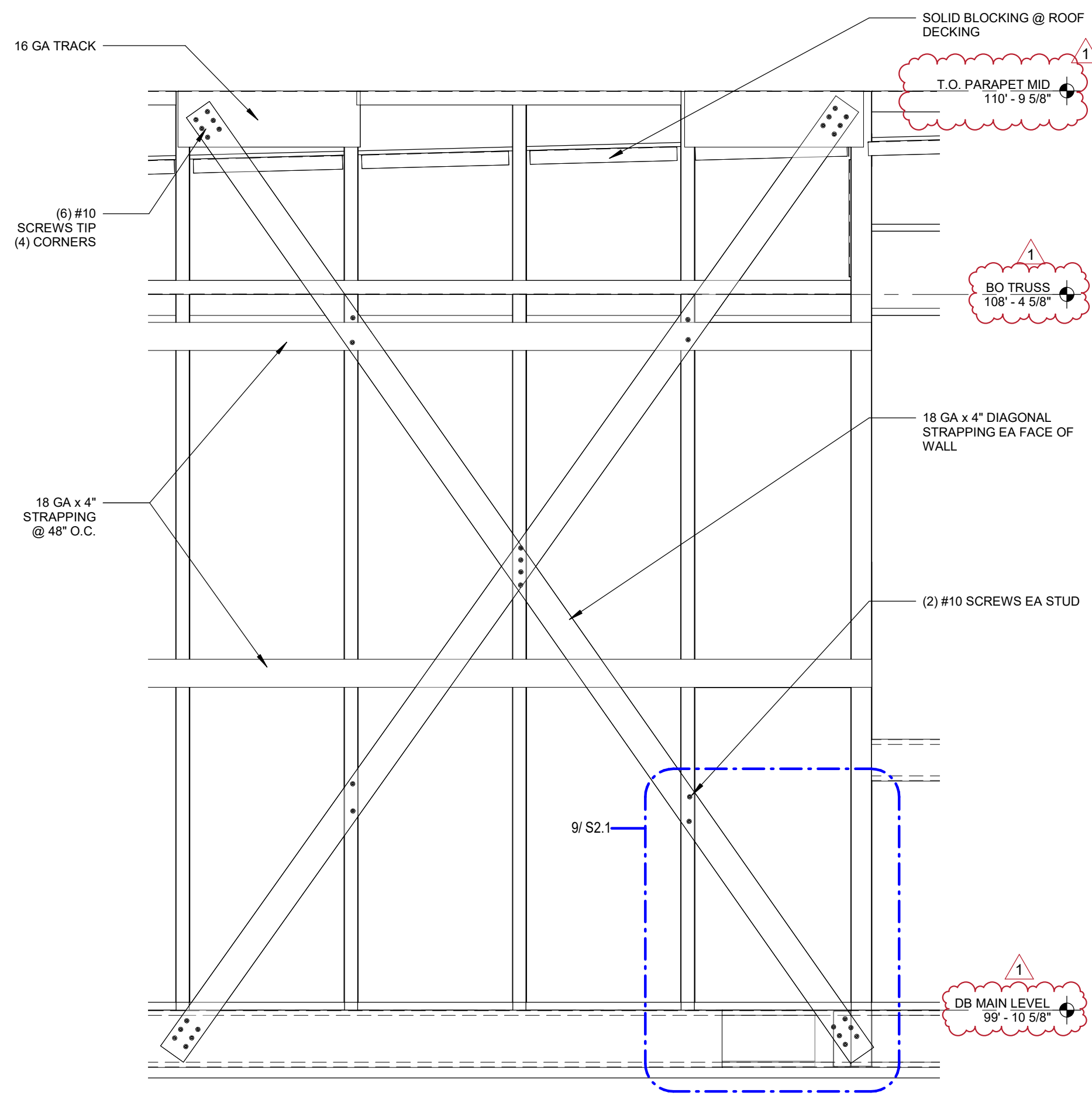
PROJECT NUMBER:  
22033 7BLS

REVISION:

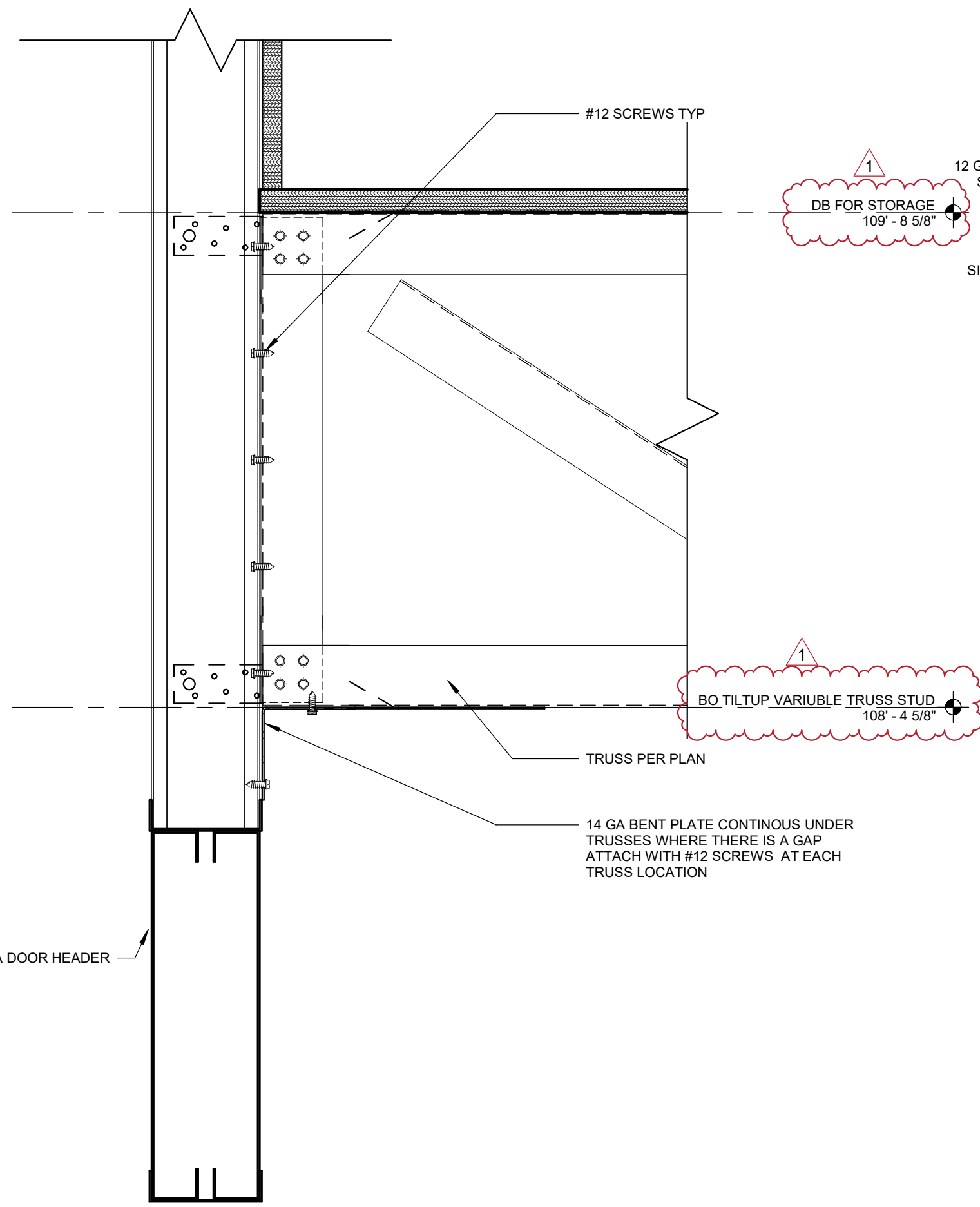
S1.3  
TRUSS SHEET

DATE: 04/22/2022

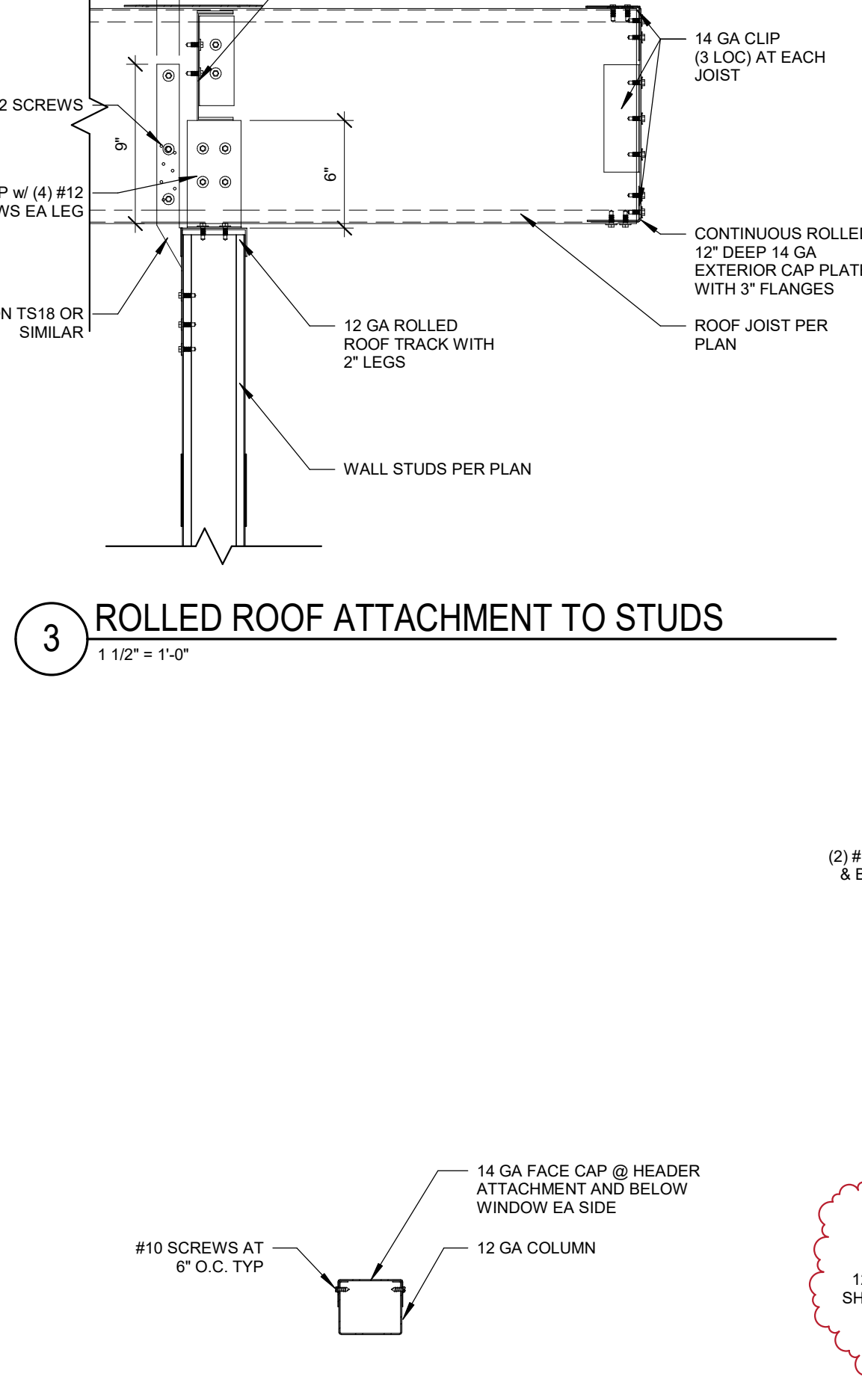




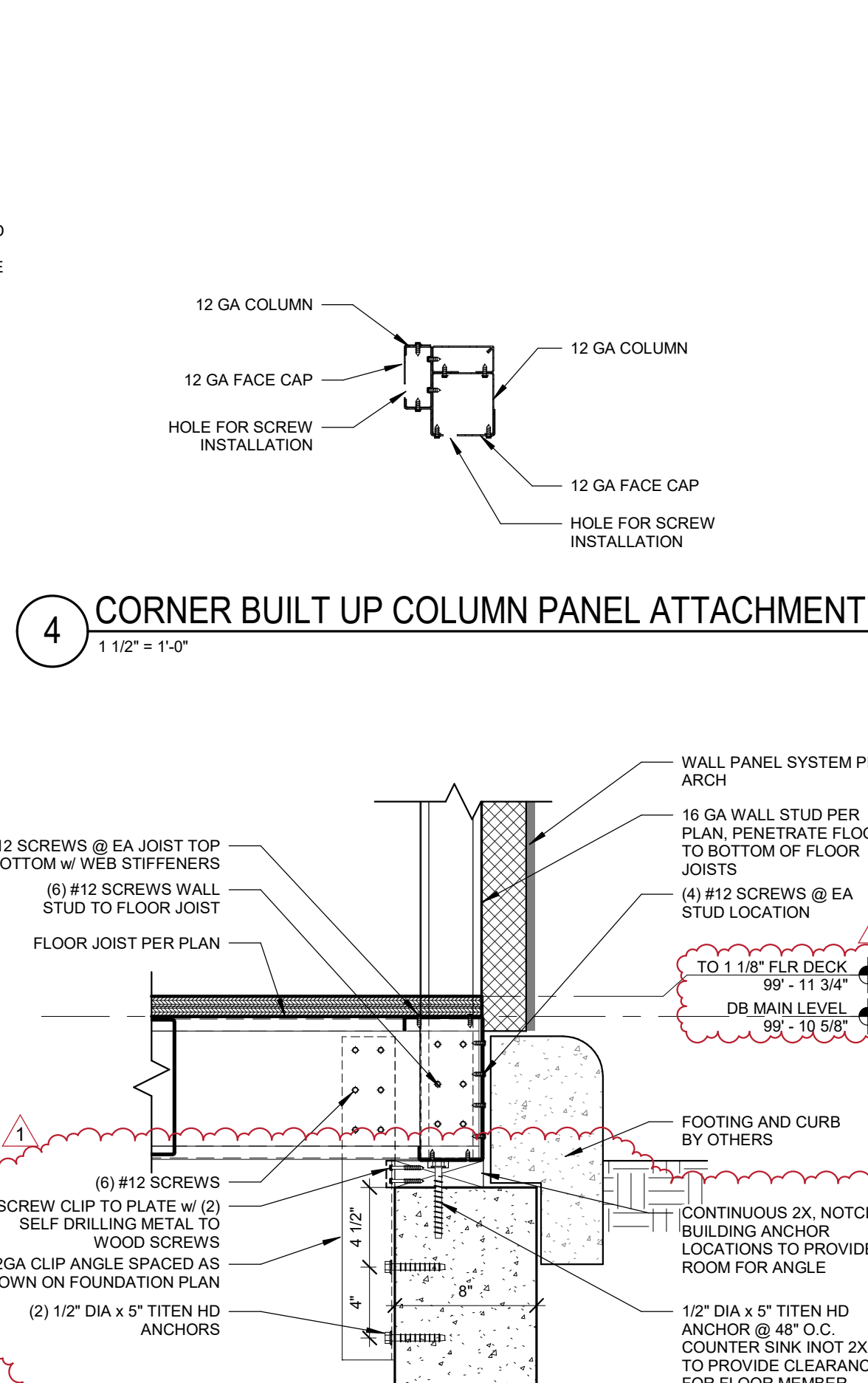
1 STRAP BRACING ELEVATION  
3/4\" = 1'-0"



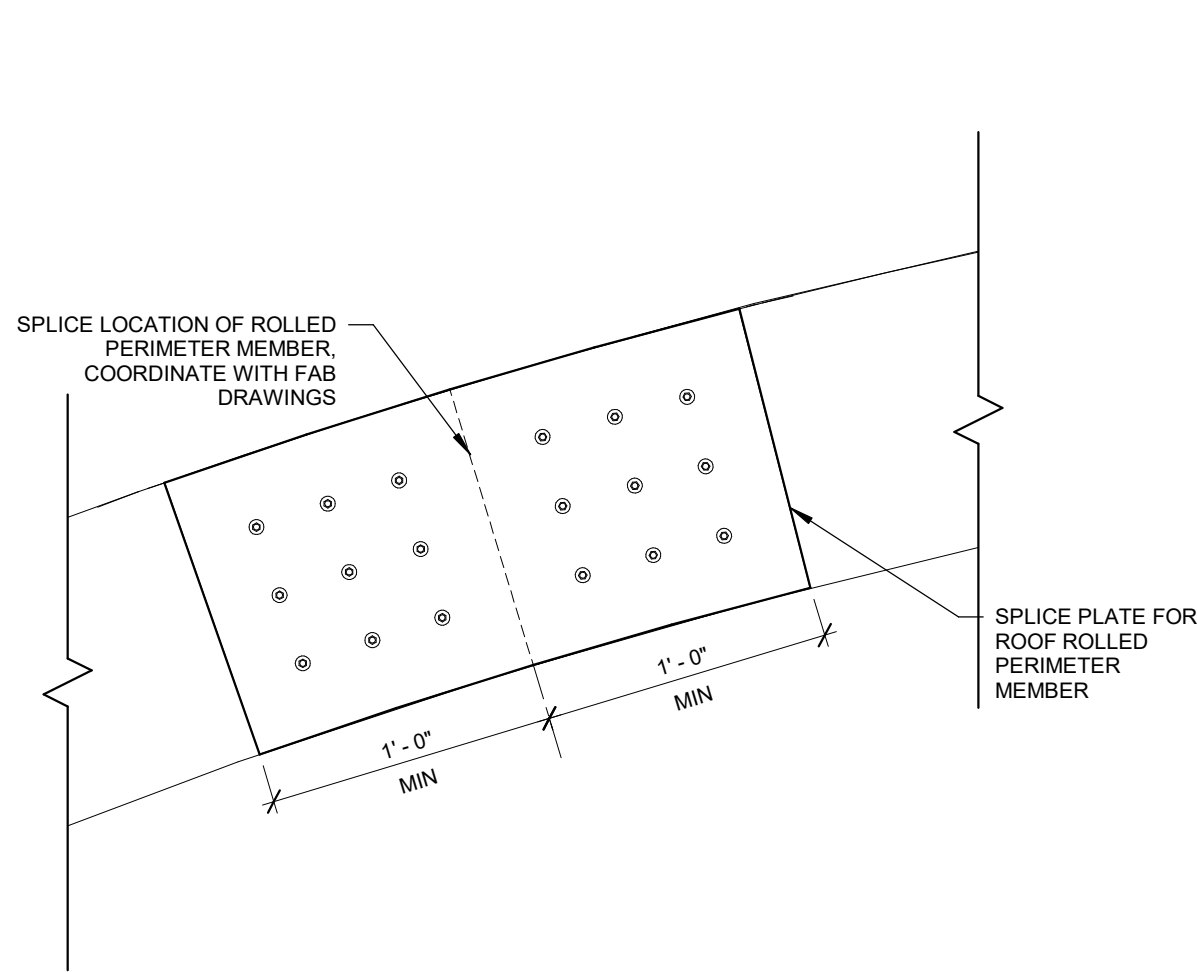
2 SECTION AT TRUSS TO HEADER  
3\" = 1'-0"



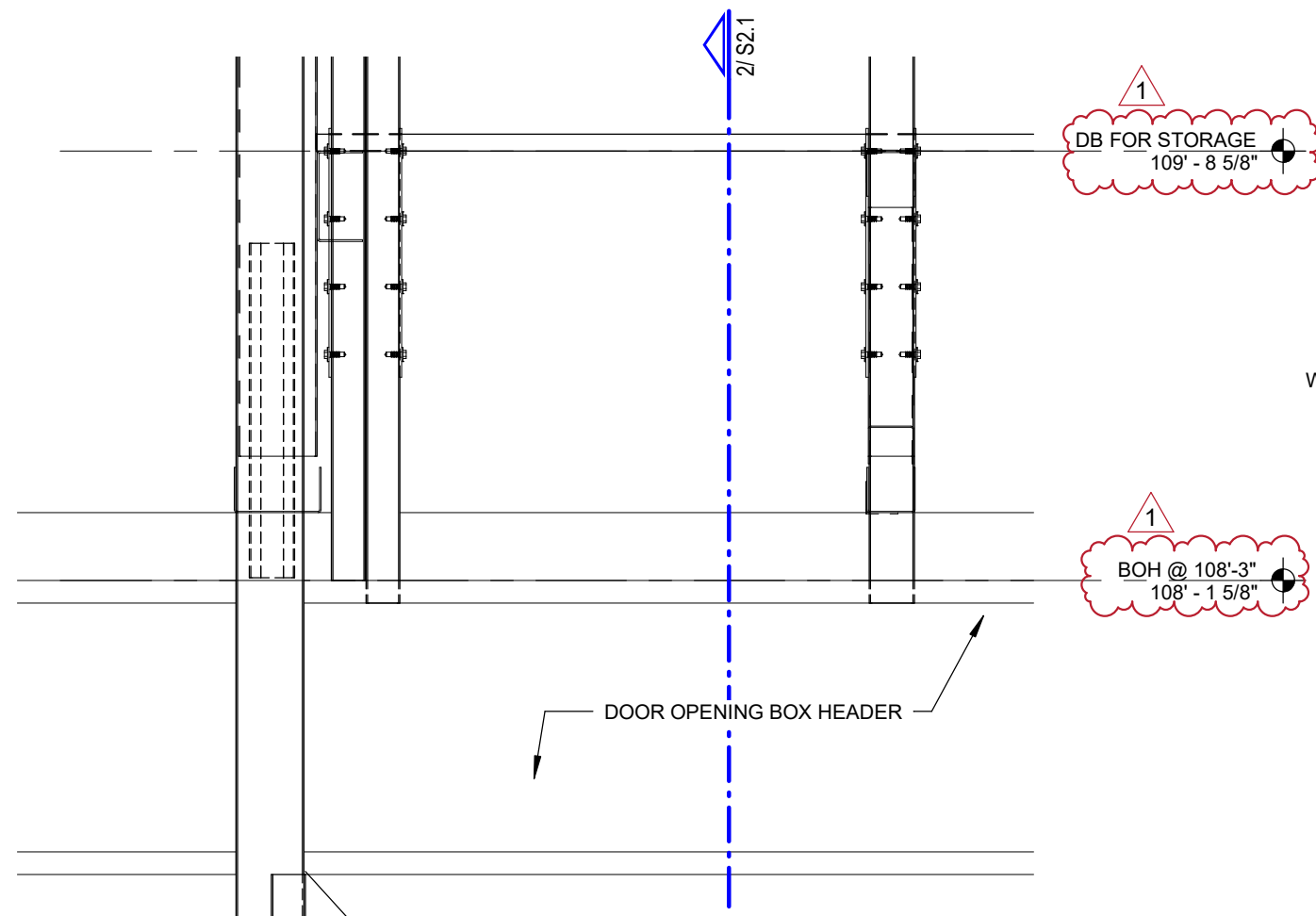
3 ROLLED ROOF ATTACHMENT TO STUDS  
1 1/2\" = 1'-0"



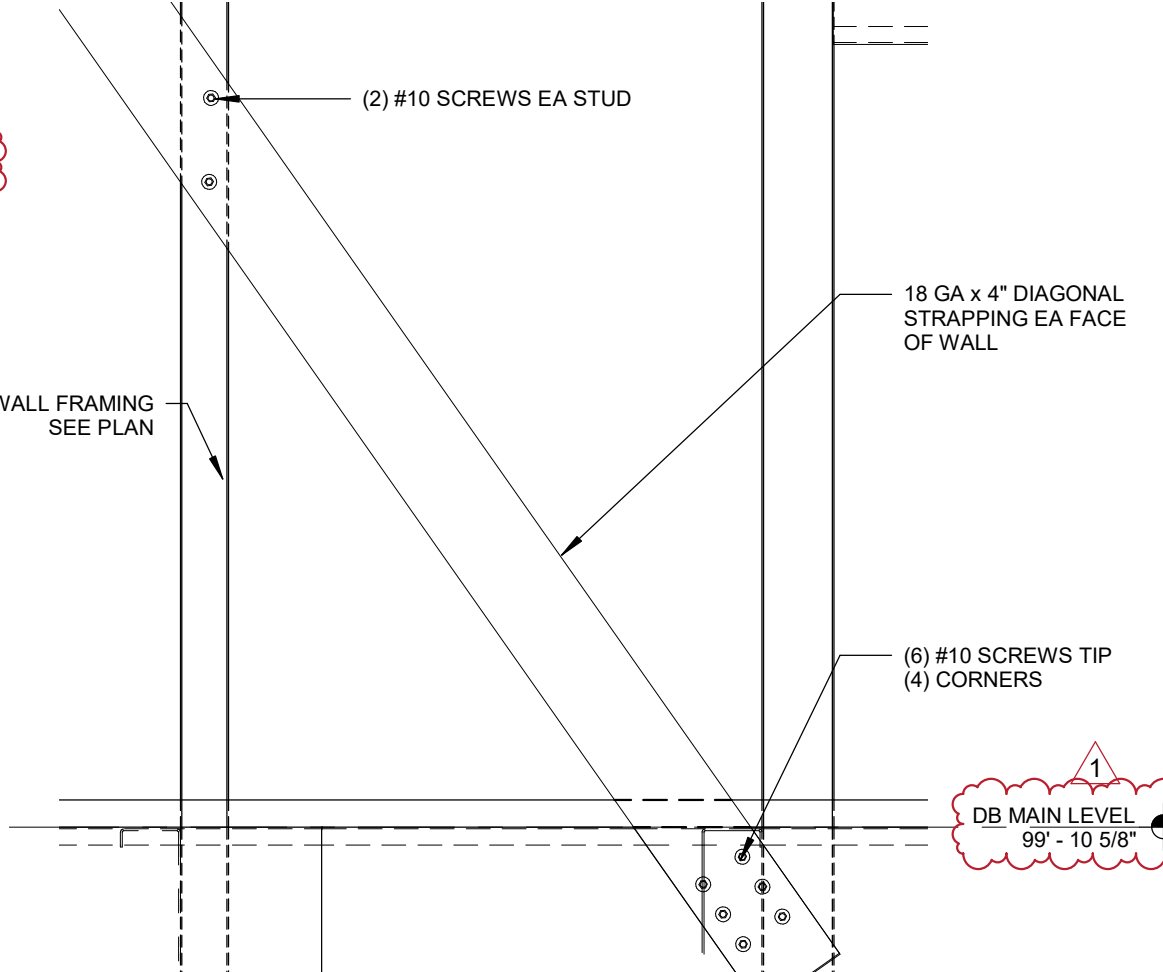
4 CORNER BUILT UP COLUMN PANEL ATTACHMENT  
1 1/2\" = 1'-0"



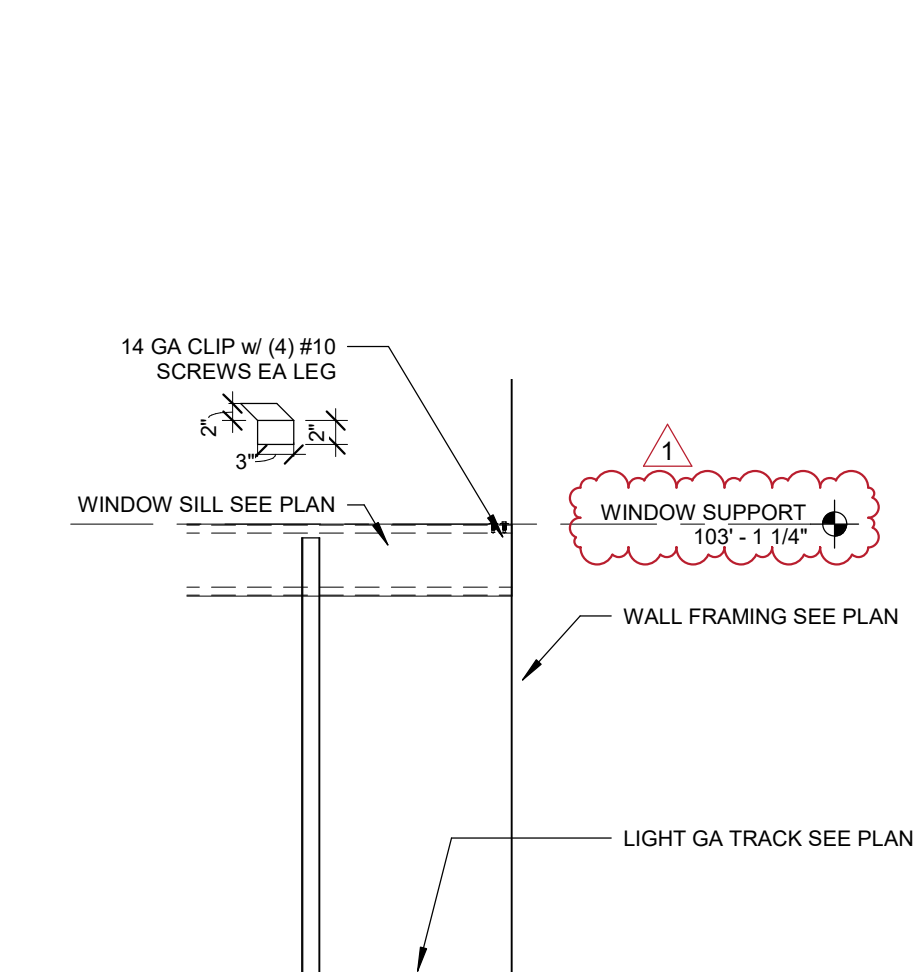
7 SPLICE DETAIL  
1 1/2\" = 1'-0"



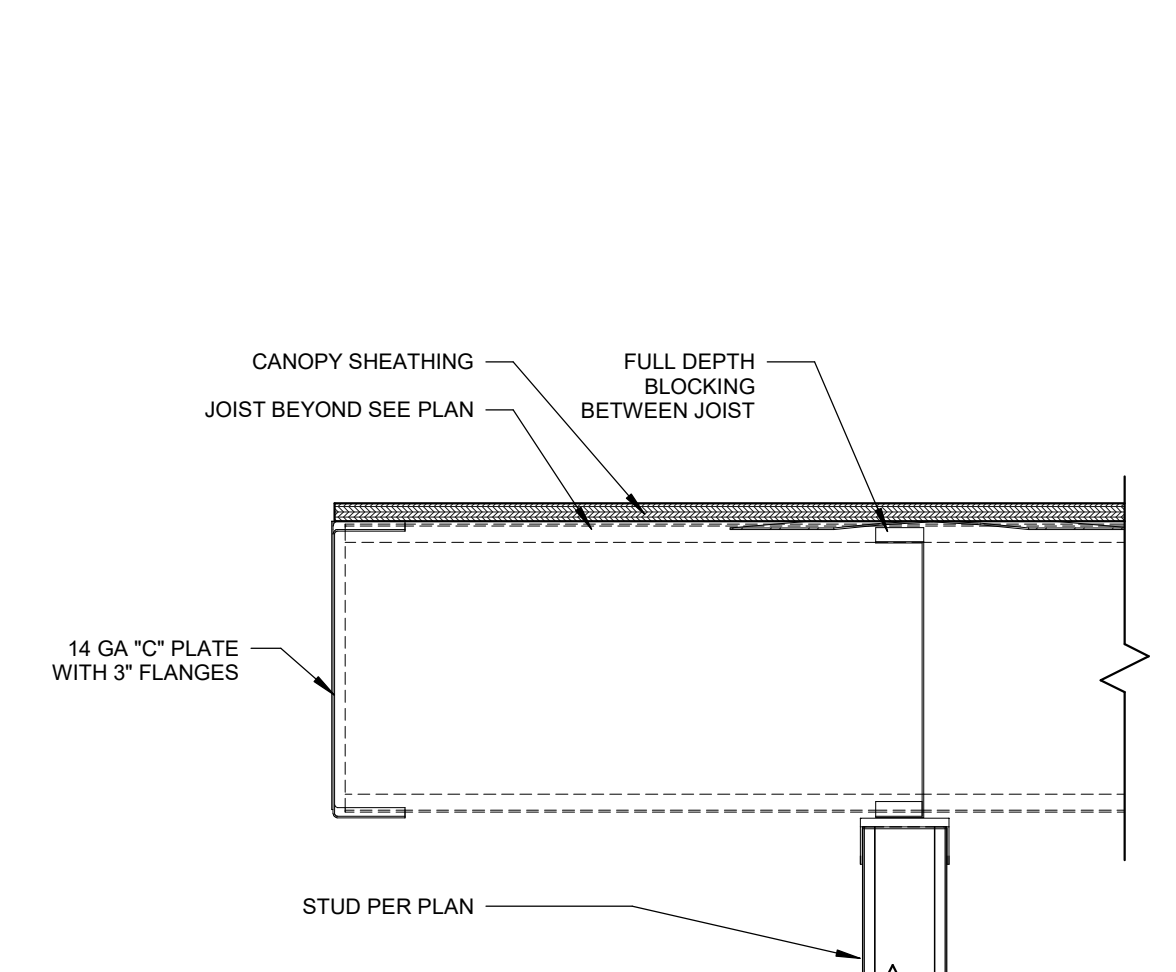
8 DETAIL AT HEADER SUPPORT  
1 1/2\" = 1'-0"



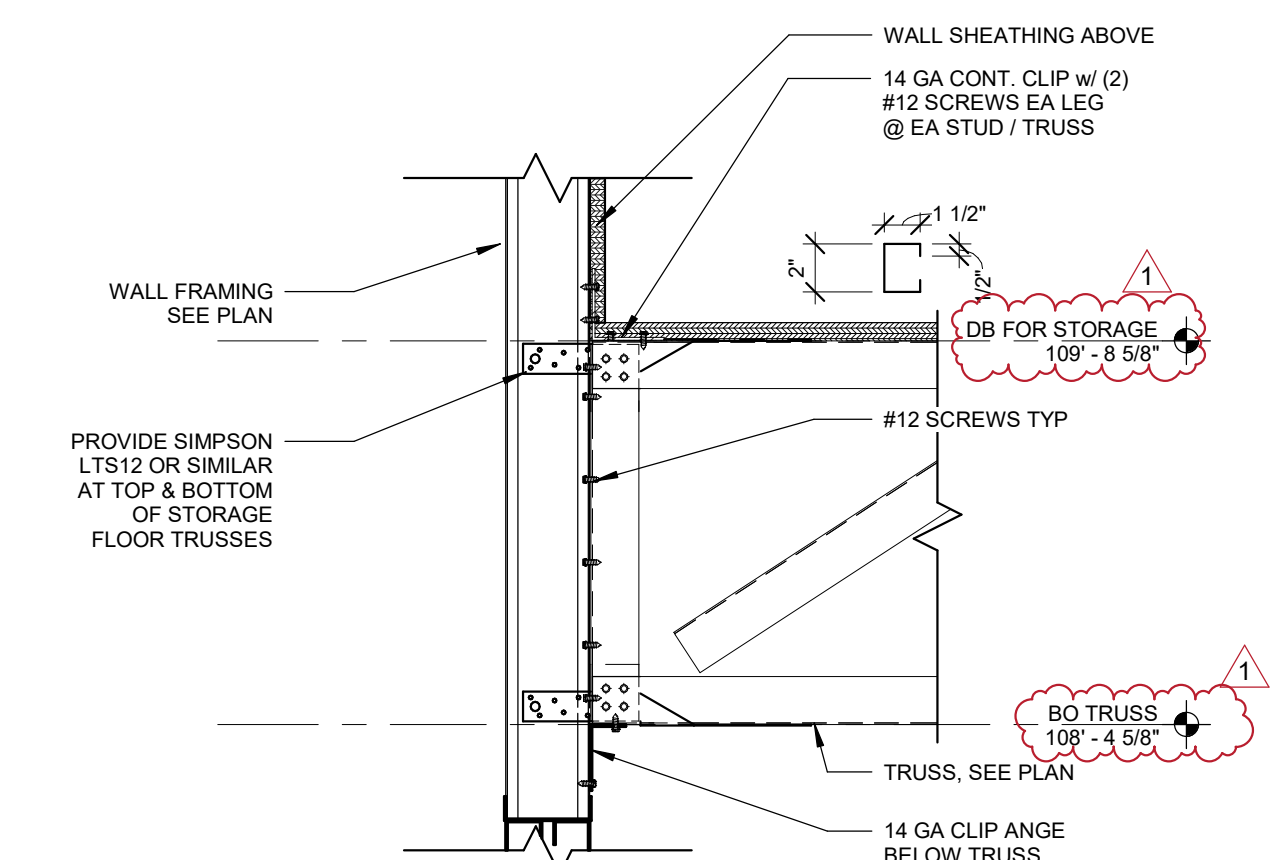
9 SECTION @ DIAGONAL STRAPPING  
1 1/2\" = 1'-0"



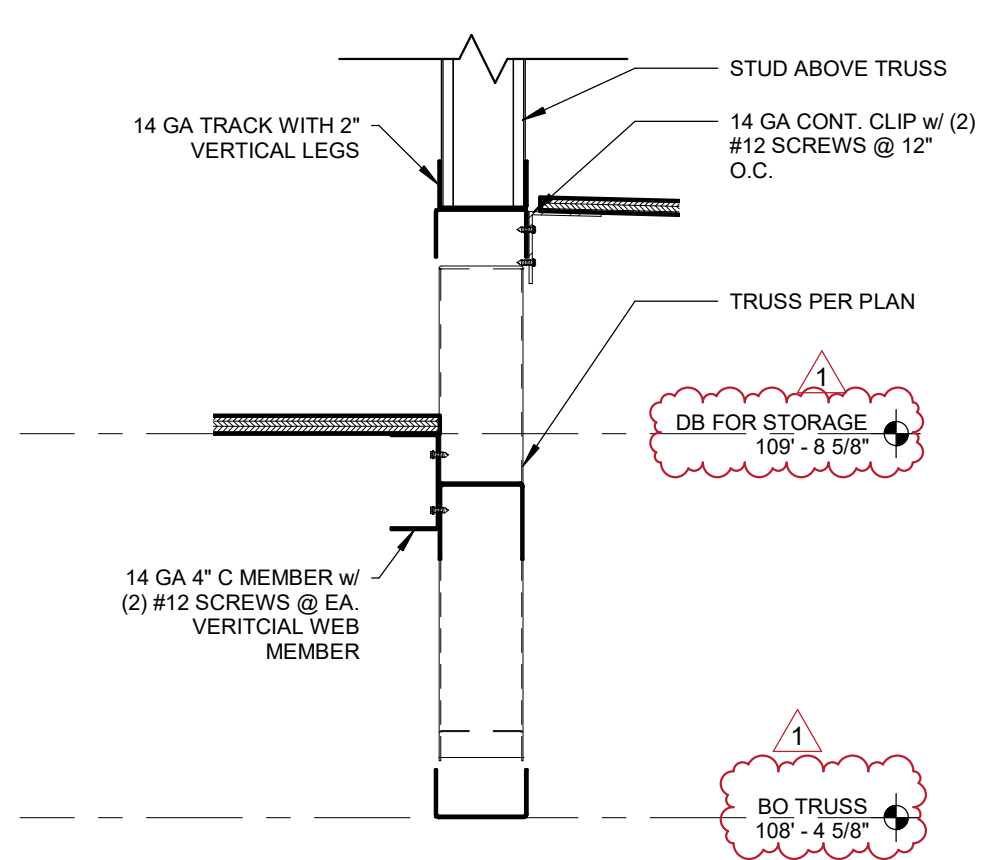
10 SECTION @ SILL TO JAMB  
3/4\" = 1'-0"



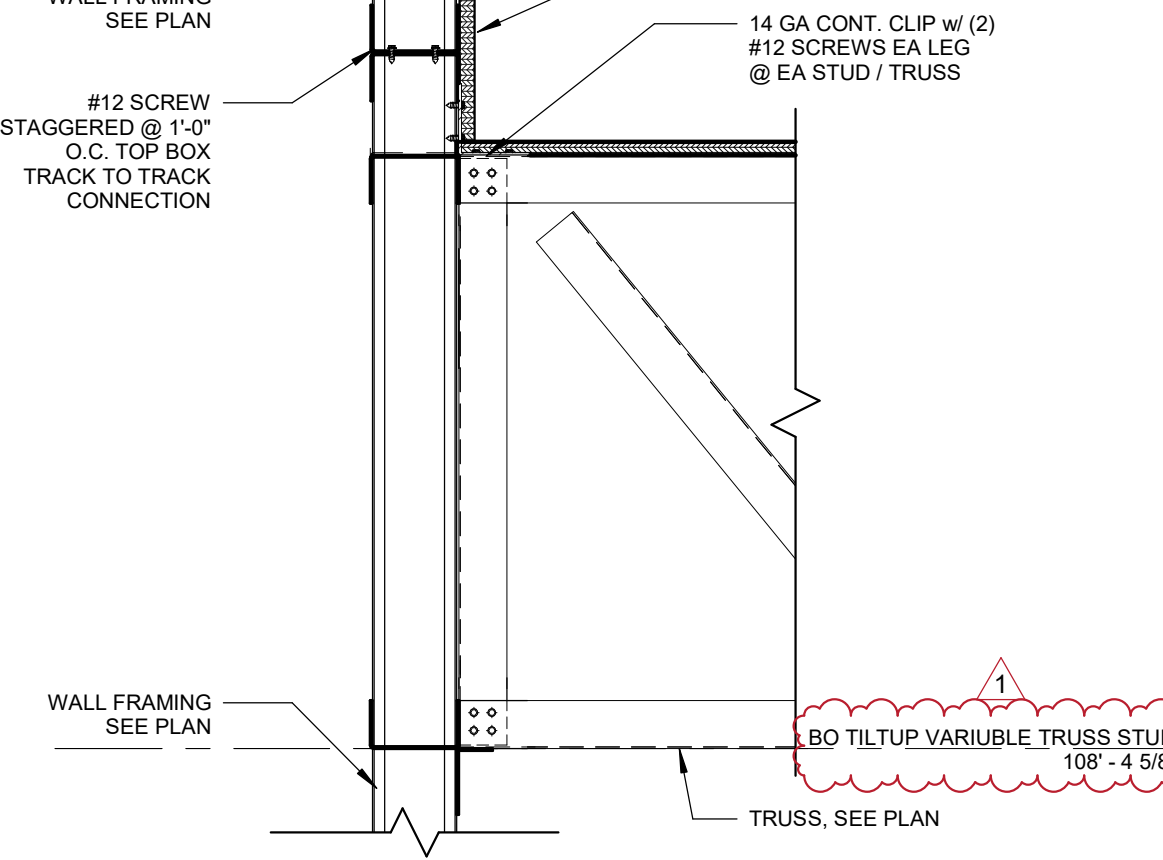
11 SECTION AT CANOPY BLOCKING  
1 1/2\" = 1'-0"



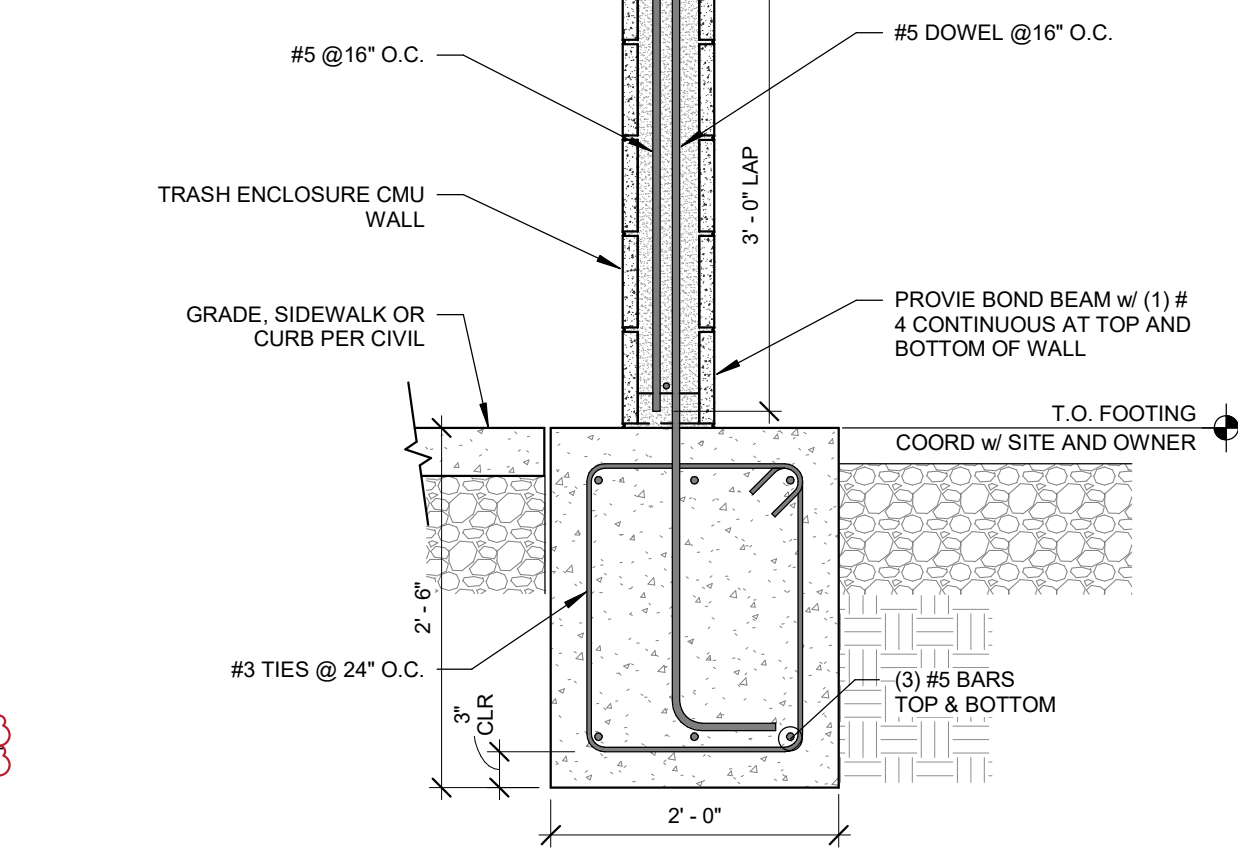
12 SECTION @ TOP BOX TO LOWER BOX CONNECTION  
1 1/2\" = 1'-0"



13 SECTION AT FLOOR TRANSITION TO ROOF  
1 1/2\" = 1'-0"



14 TYPICAL TRUSS TO WALL CONNECTION  
1 1/2\" = 1'-0"



15 CMU TRASH ENCLOSURE FOUNDATION (ALT)  
3/4\" = 1'-0"



**TORGERSON**  
**DESIGN PARTNERS**  
ARCHITECTURE / REAL ESTATE / DEVELOPMENT

**CMC**  
CREATIVE MODULAR CONSTRUCTION

7 BREW COFFEE  
LEE'S SUMMIT, MO

1410 NE DOUGLAS STREET  
LEE'S SUMMIT, MISSOURI 64086

RELEASED FOR CONSTRUCTION  
As Noted on Plans Review  
Lee's Summit, Missouri  
09/07/2022

110 NORTH 2ND AVENUE - OZARK, MO 65721 - P (417) 581-8889 - F (417) 581-9001  
www.torgersondesign.com  
ARCHITECTURAL CORPORATION MISSOURI LICENSE NUMBER: A-2010011427

STATE OF MISSOURI  
REGISTERED PROFESSIONAL ENGINEER  
JOHN CHARLES MILLER  
NUMBER E-29518  
6.22.2022

ENGINEER OF RECORD:  
JOHN C. MILLER  
E-29518  
E-2011011004

PROJECT NUMBER:  
220333 7BLS

REVISION:  
1 06/22/2022 ADD 001

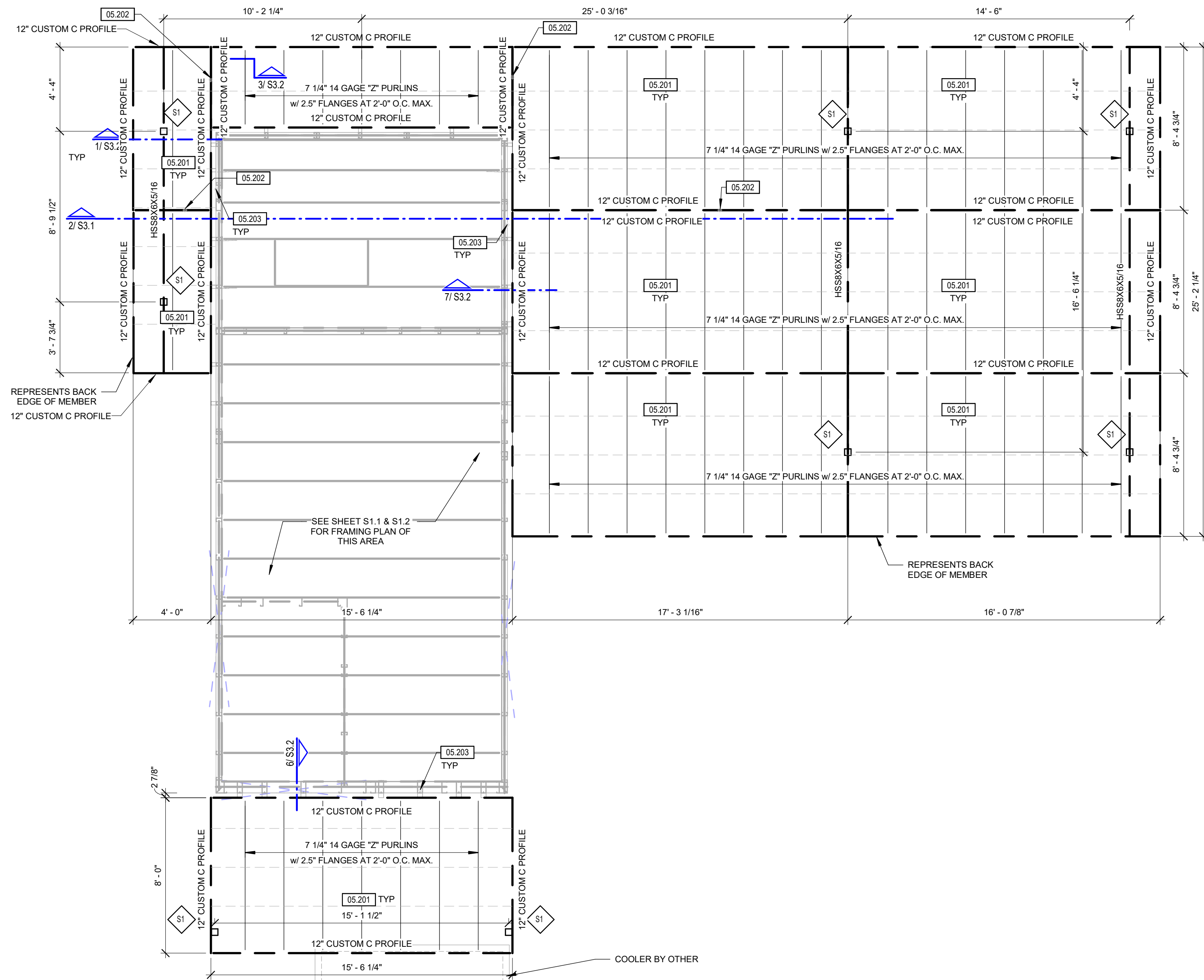
**S2.1**  
DETAILS

DATE: 04/22/2022

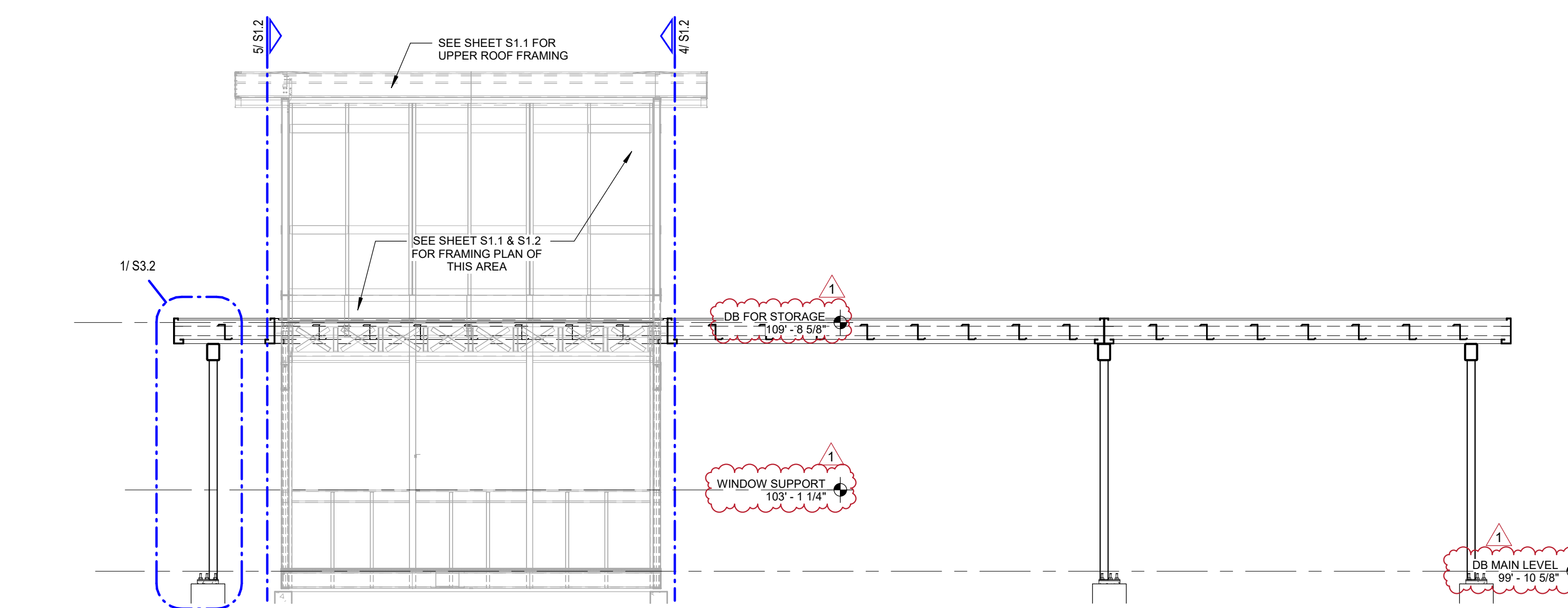


KEYNOTE	DESCRIPTION
05.201	PROVIDE STRAP BRIDGING @ 24" O.C. w/ BLOCKING PIECES EACH END.
05.202	PLACE "C" PROFILE BACK TO BACK, ATTACH w/ (3) SCREWS AT 12" MAX. ON CENTER.
05.203	ANCHOR CHANNEL TO WALL w/ (4) #12 GALV. TEK SCREWS @ EACH STUD.

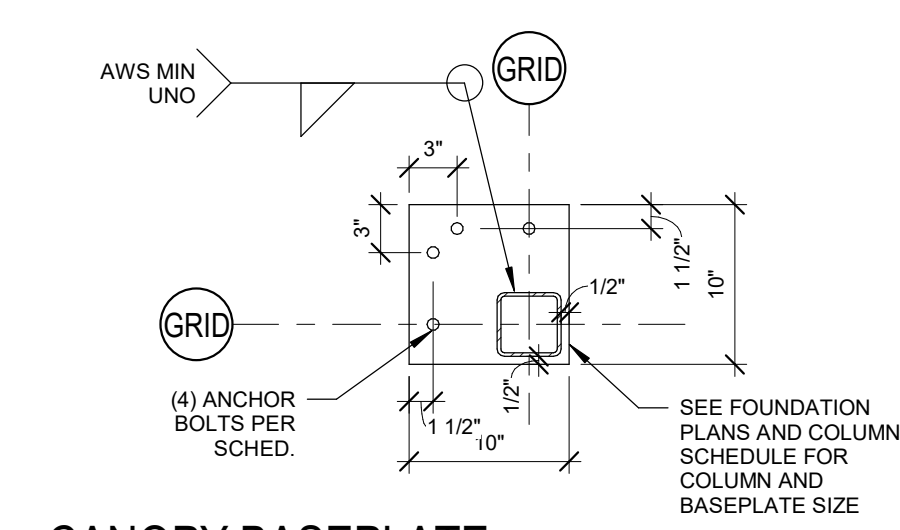
COLUMN SCHEDULE				
TYPE	COLUMN SIZE	BASE PLATE TYPE & SIZE	ANCHOR BOLT SIZE	NOTES
S1	HSS4X4X1/4	5/8"x10" SQ	(4) 3/4" DIA w/ 18" EMBEDMENT	



1 ROOF AND STORAGE WITH BASE CANOPY ADDITION  
1/4" = 1'-0"



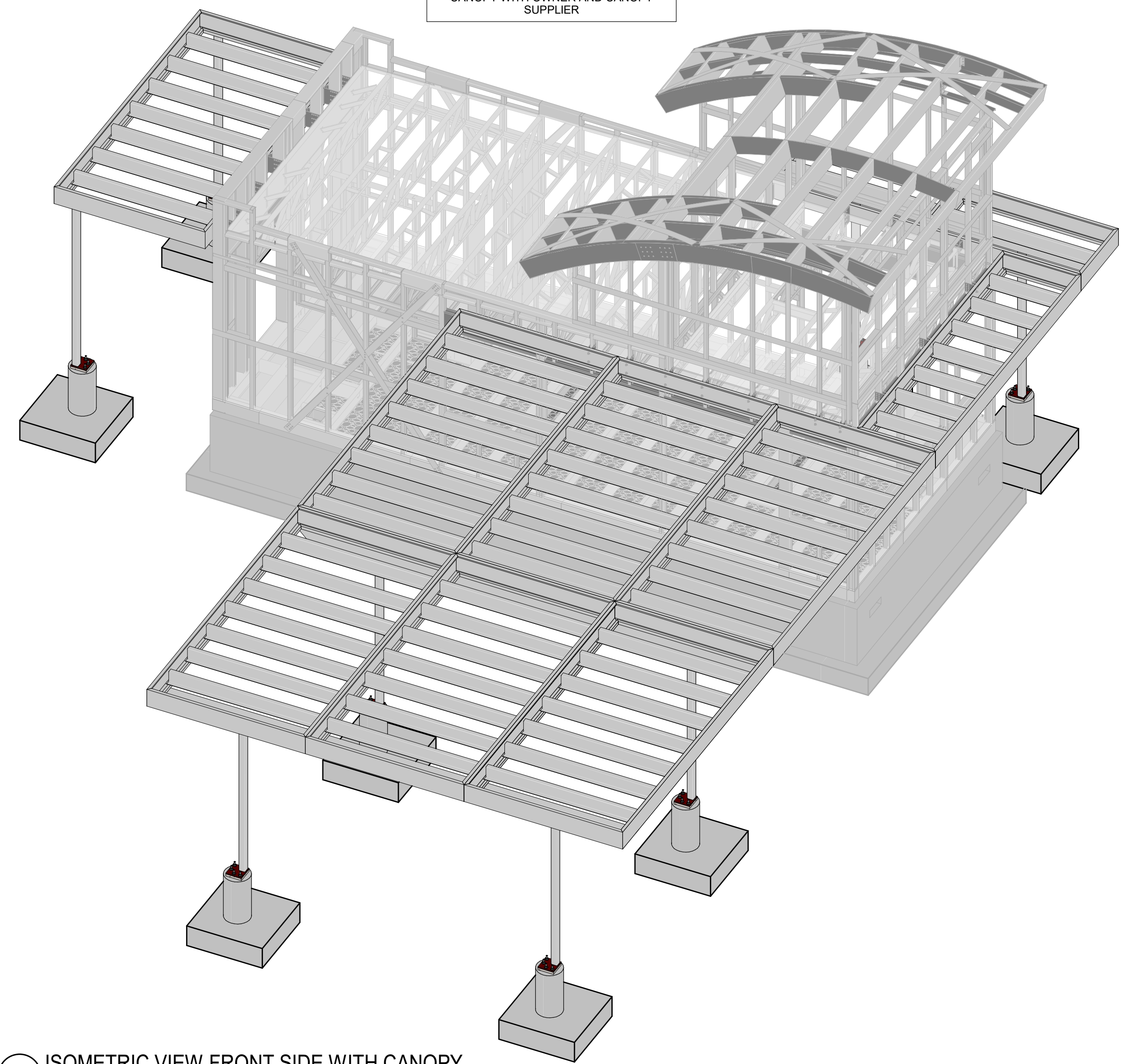
2 CROSS SECTION WITH CANOPY  
1/4" = 1'-0"



CANOPY BASEPLATE

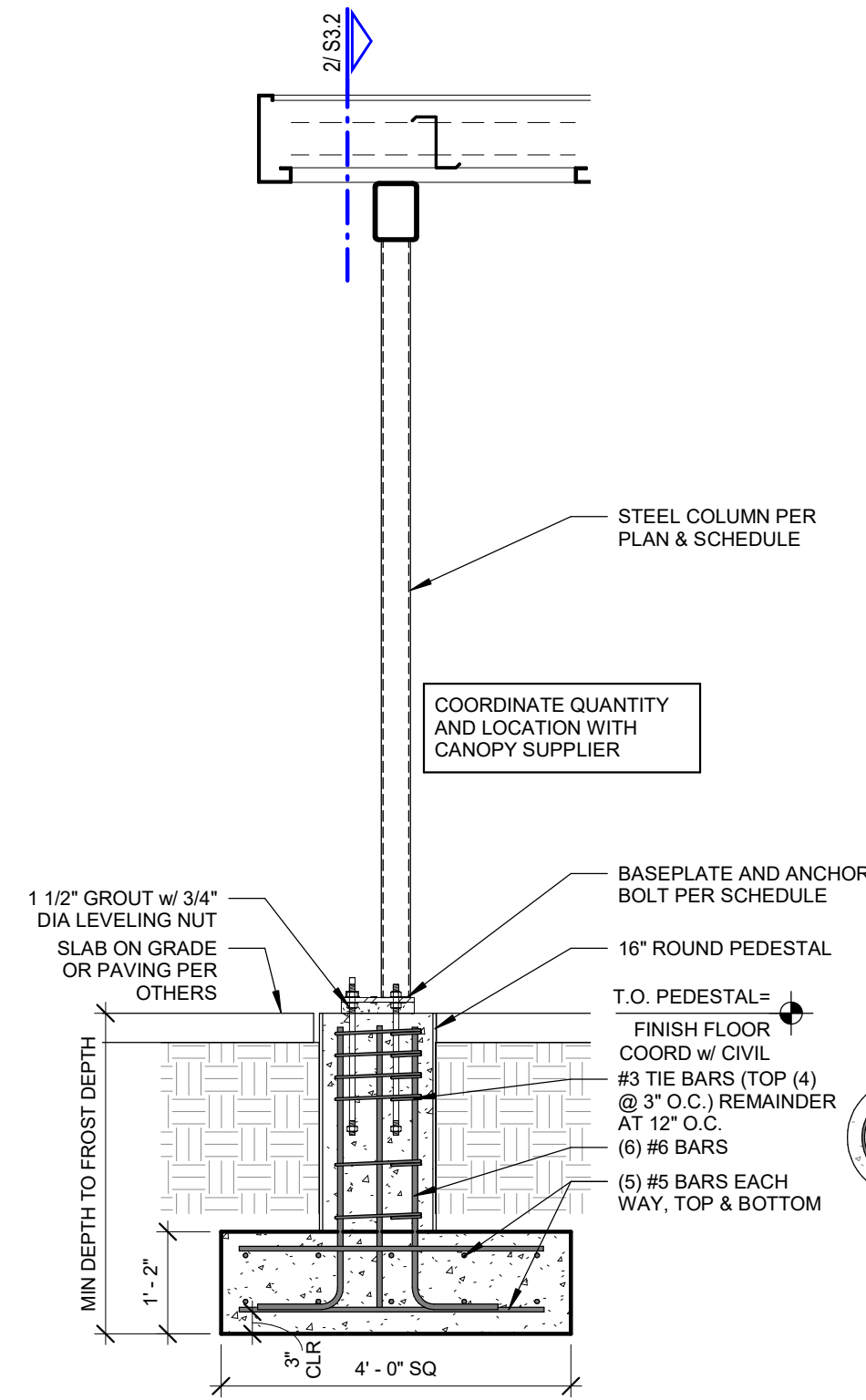
ISOMETRIC VIEWS FOR REFERENCE ONLY

COORDINATE EXACT SIZE AND SHAPE OF CANOPY WITH OWNER AND CANOPY SUPPLIER

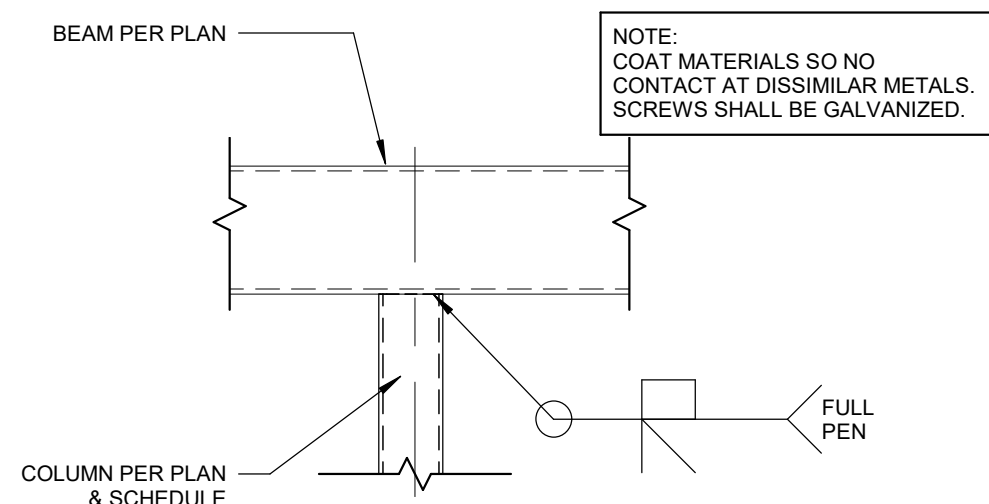


3 ISOMETRIC VIEW FRONT SIDE WITH CANOPY

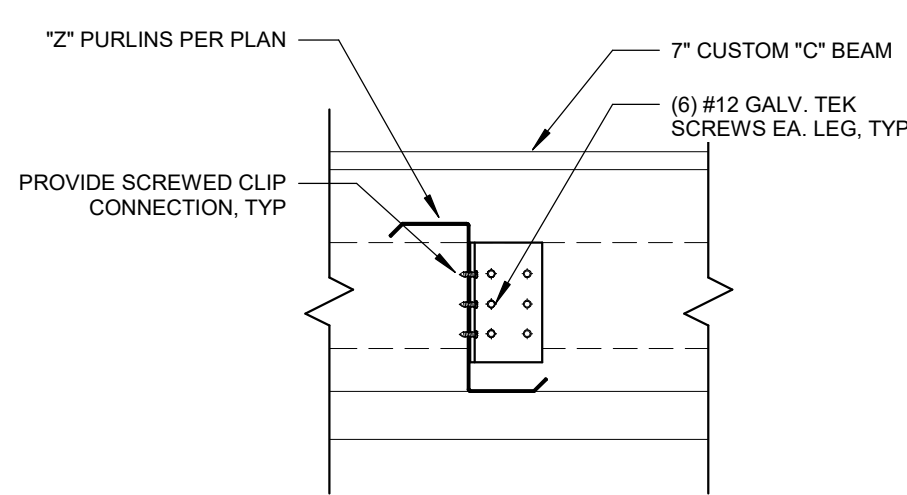




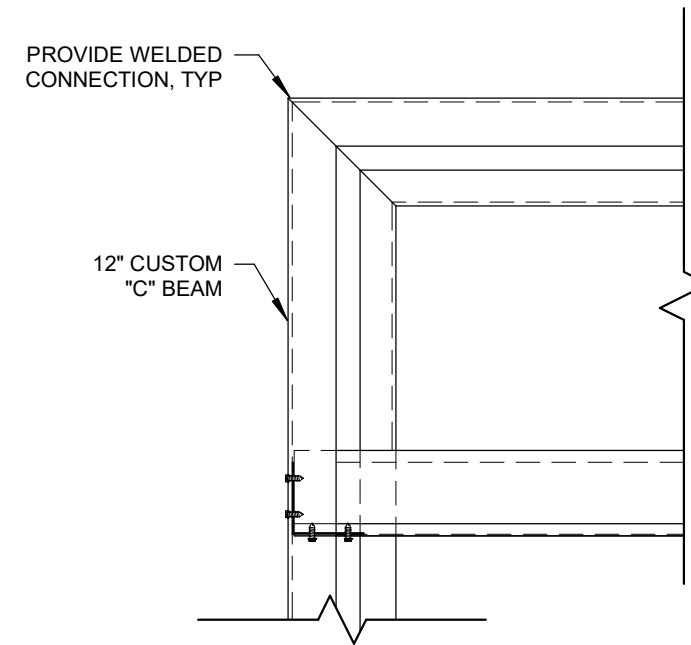
1 SECTION AT COLUMN  
1 1/2" = 1'-0"



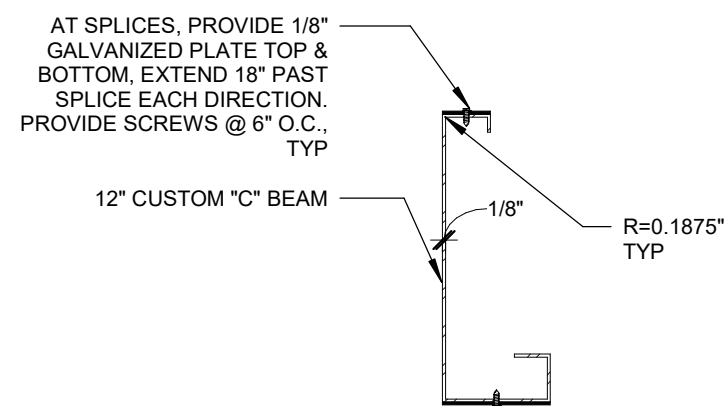
2 SECTION AT COLUMN CAP  
1" = 1'-0"



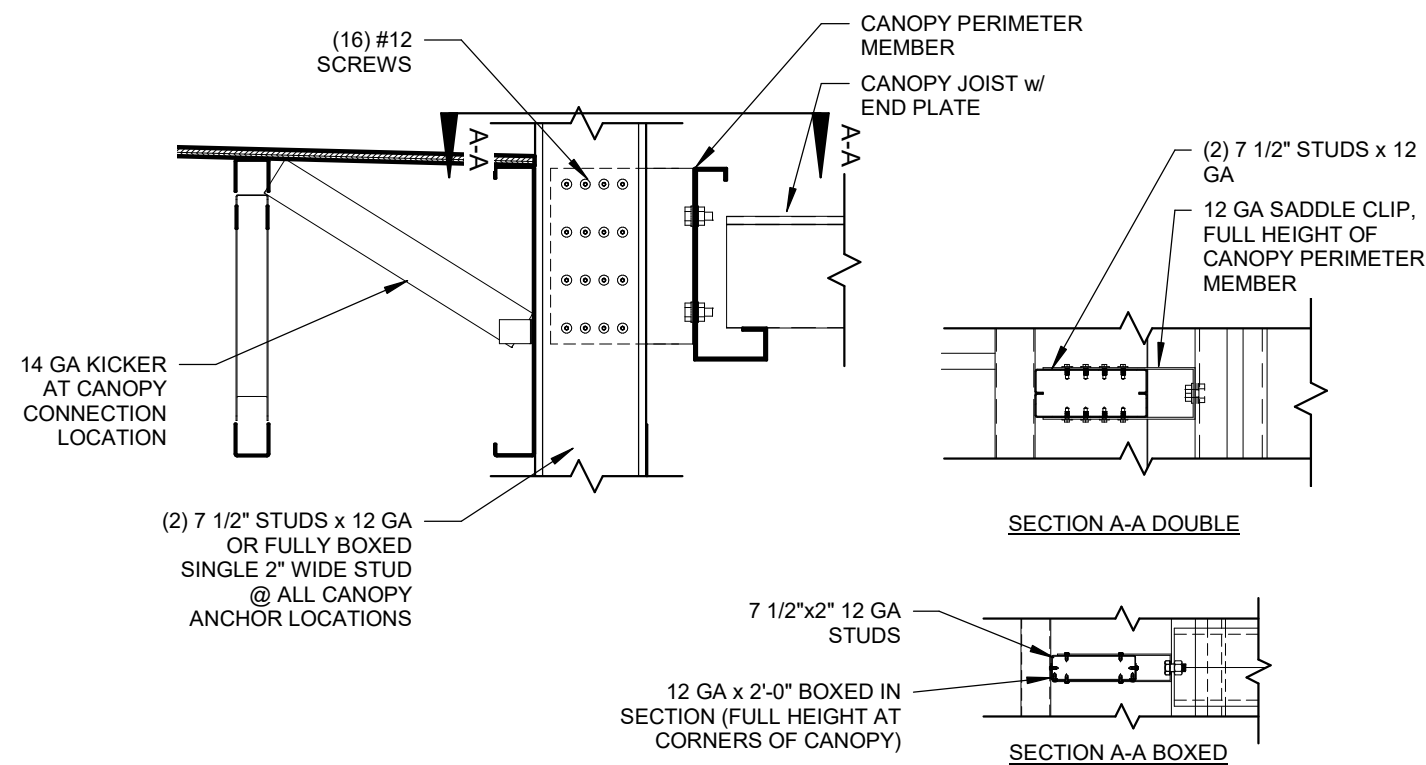
3 "Z" PURLIN ATTACHMENT  
1 1/2" = 1'-0"



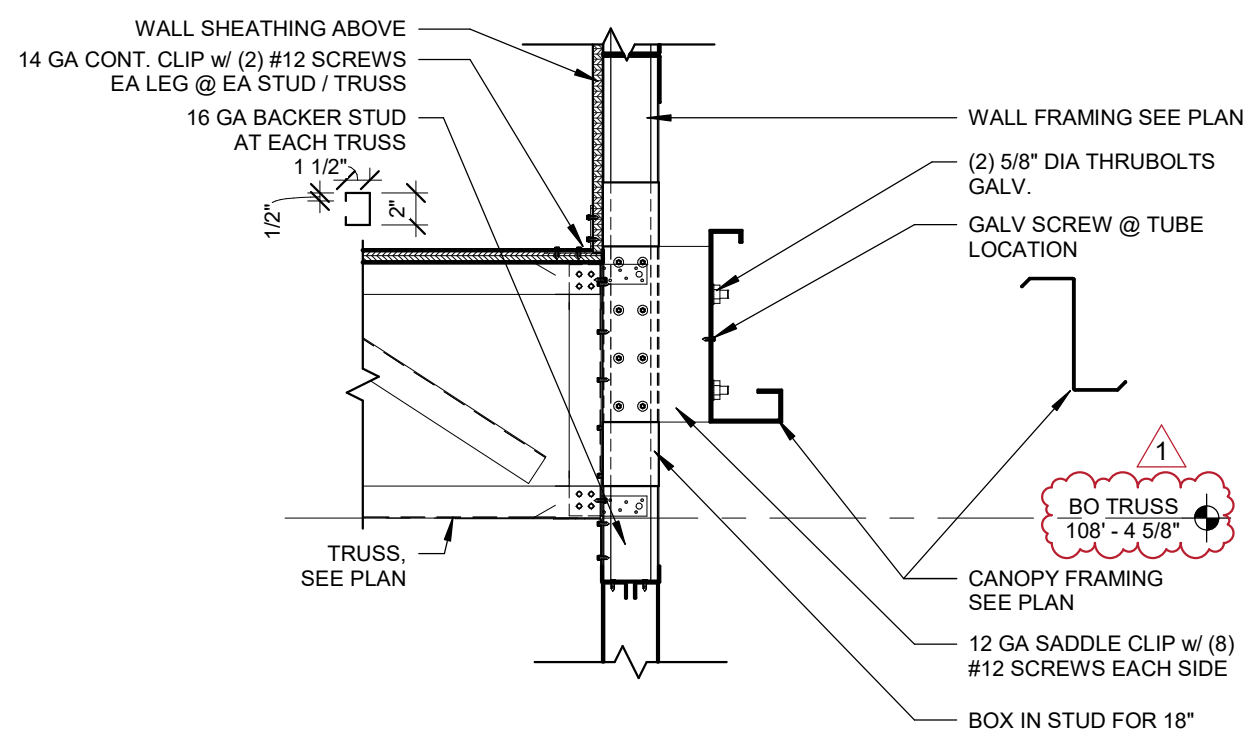
4 DETAIL AT CORNER  
1 1/2" = 1'-0"



5 CUSTOM SECTION @ CANOPY  
1 1/2" = 1'-0"

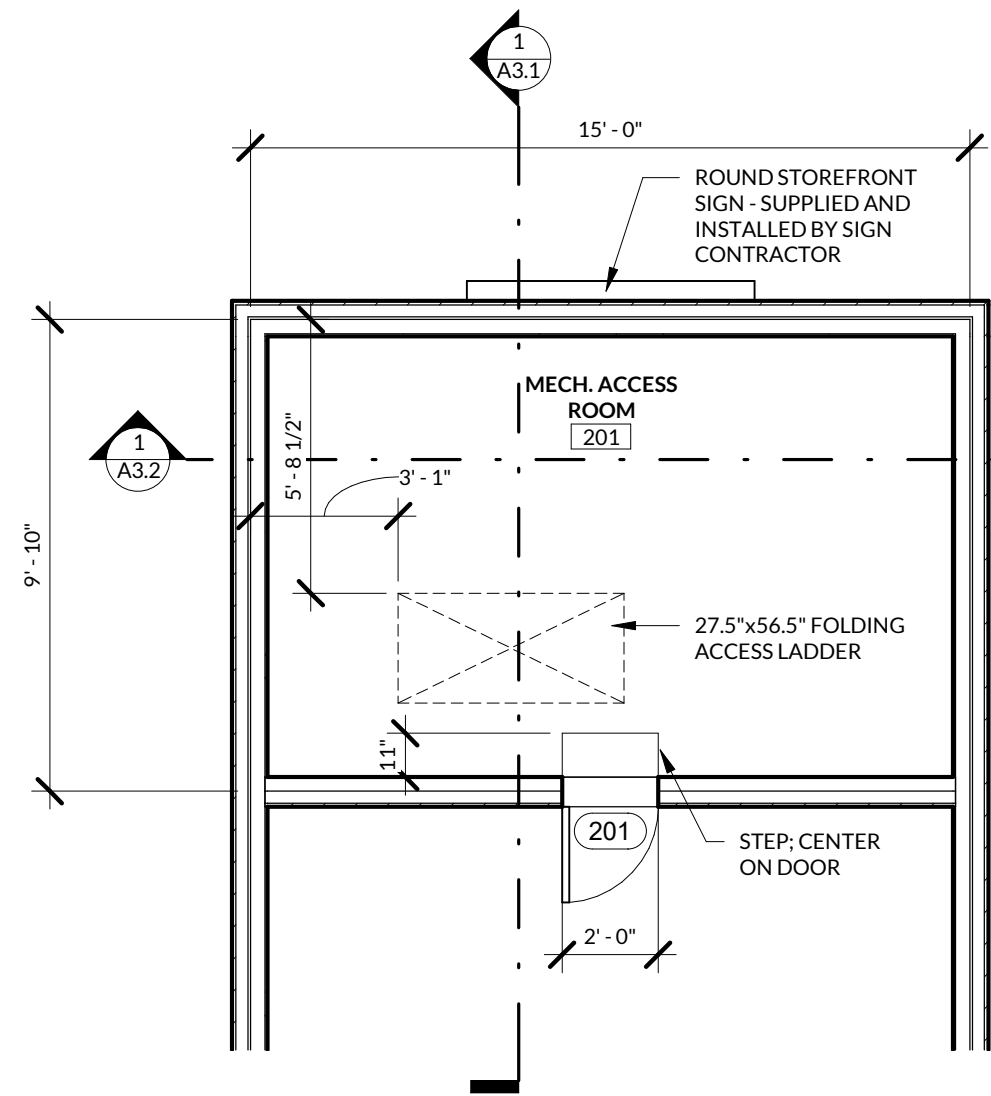


6 BACK CANOPY CONNECTION  
1" = 1'-0"

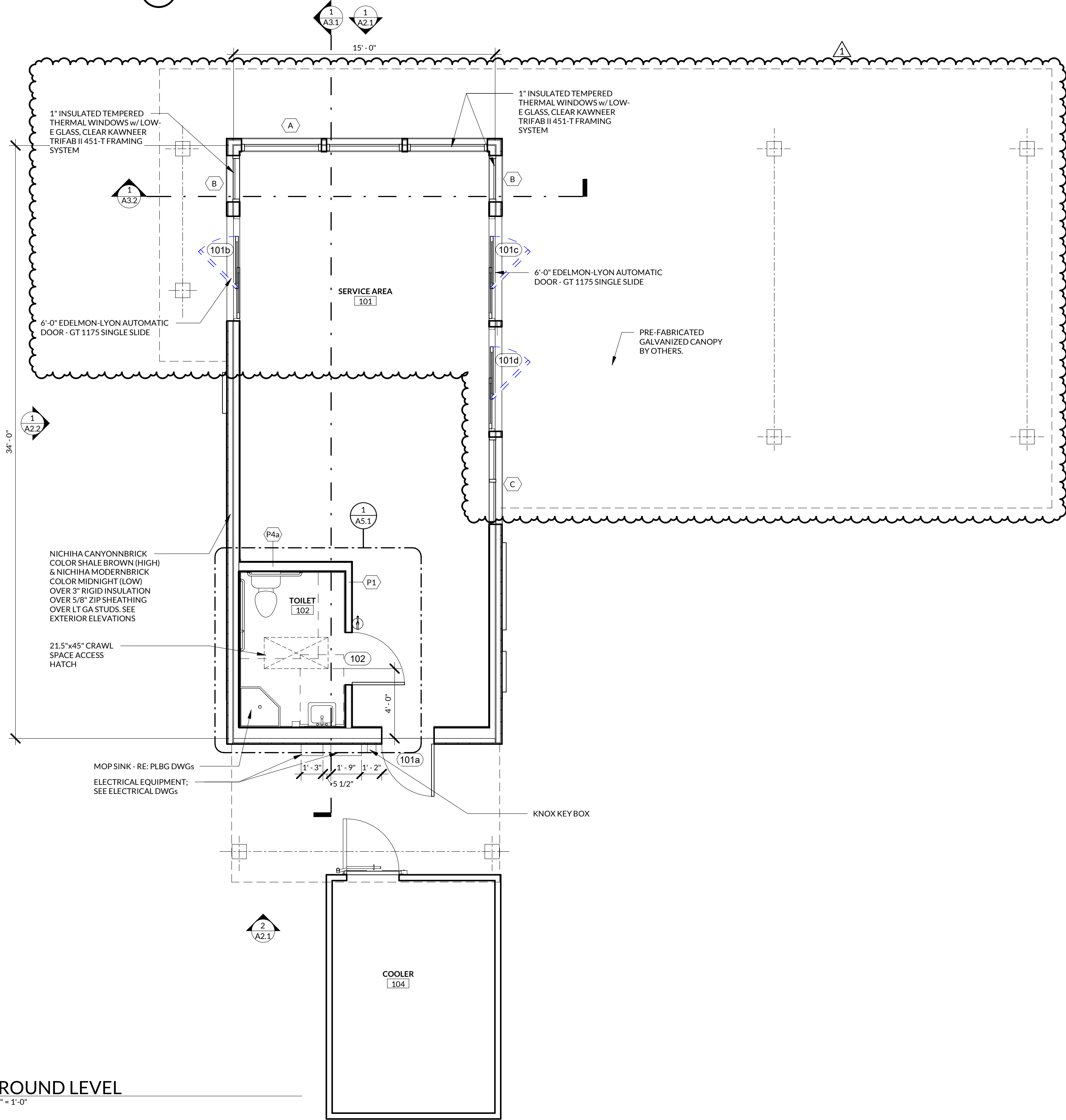


7 SECTION @ LOW CANOPY  
1" = 1'-0"



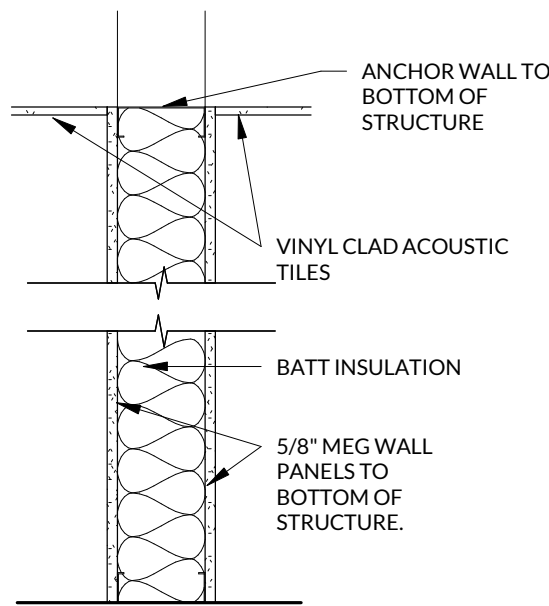


1 ATTIC FLOOR  
1/4" = 1'-0"



2 GROUND LEVEL  
1/4" = 1'-0"

## PARTITION TYPES



P4a USES 6" METAL STUDS

P1 USES 3-5/8" METAL STUDS

## ROOM FINISH SCHEDULE

RM NO.	RM NAME	FLR	BASE	WALLS				CLG	CLG HGT	NOTE
				TOP	RT	BOT	LT			
101	SERVICE AREA	F1	B1	W1/2	W1/2	W1	W1/2	C1	VERIFY	-
102	TOILET	F1	B1	W1	W1	W1	W1	C1	VERIFY	-
201	MECH ACCESS RM	F2	B2	W3	W3	W3	W3	C2	VARIES	-

### FINISH LEGEND:

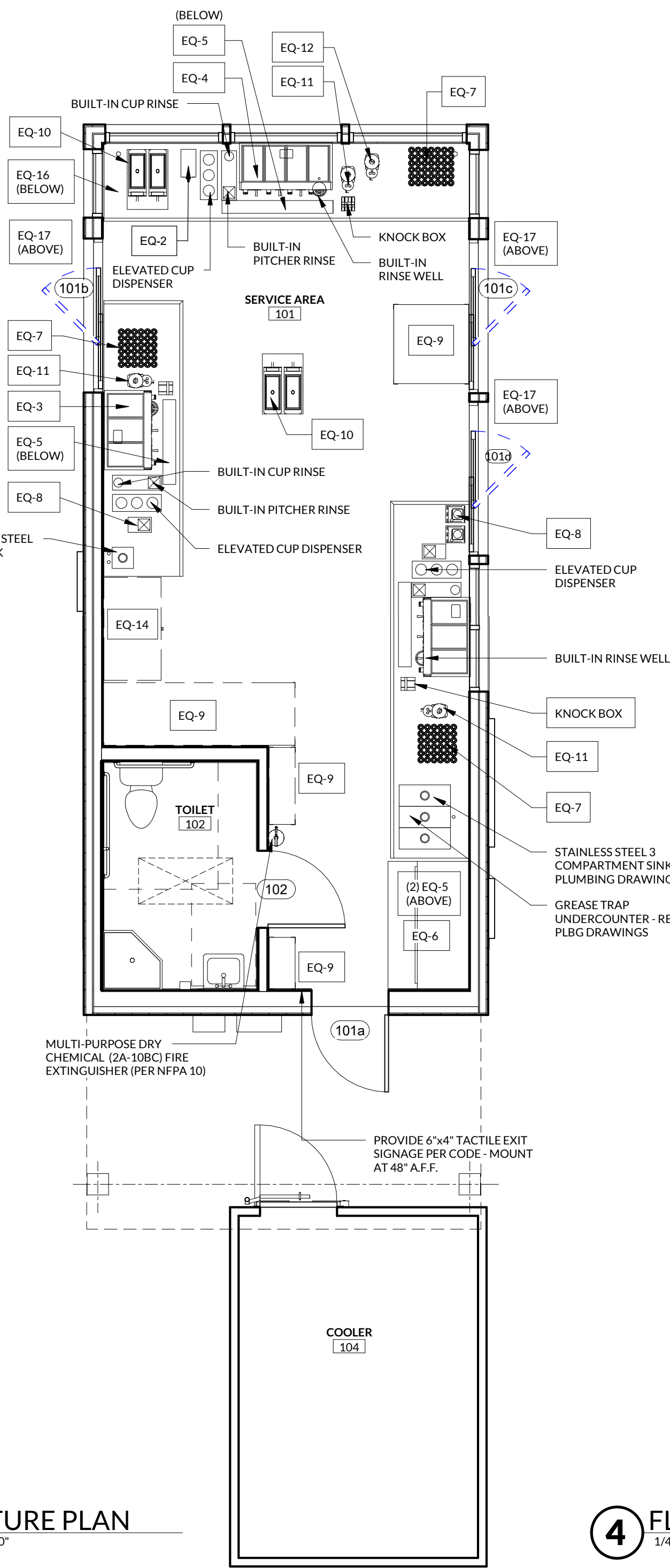
FLOORS	BASE	WALLS	CEILINGS
F1 PROTECT-ALL VINYL	B1 PROTECT-ALL VINYL COVE BASE	W1 MEG WALL PANELS	C1 VINYL CLAD ACOUSTICAL TILES
F2 UNFINISHED PLYWOOD	B2 NONE	W2 ALUM STOREFRONT SYSTEM	C2 EXPOSED STRUCTURE
		W3 EXPOSED STRUCTURE	

### ROOM FINISH SCHEDULE NOTES:

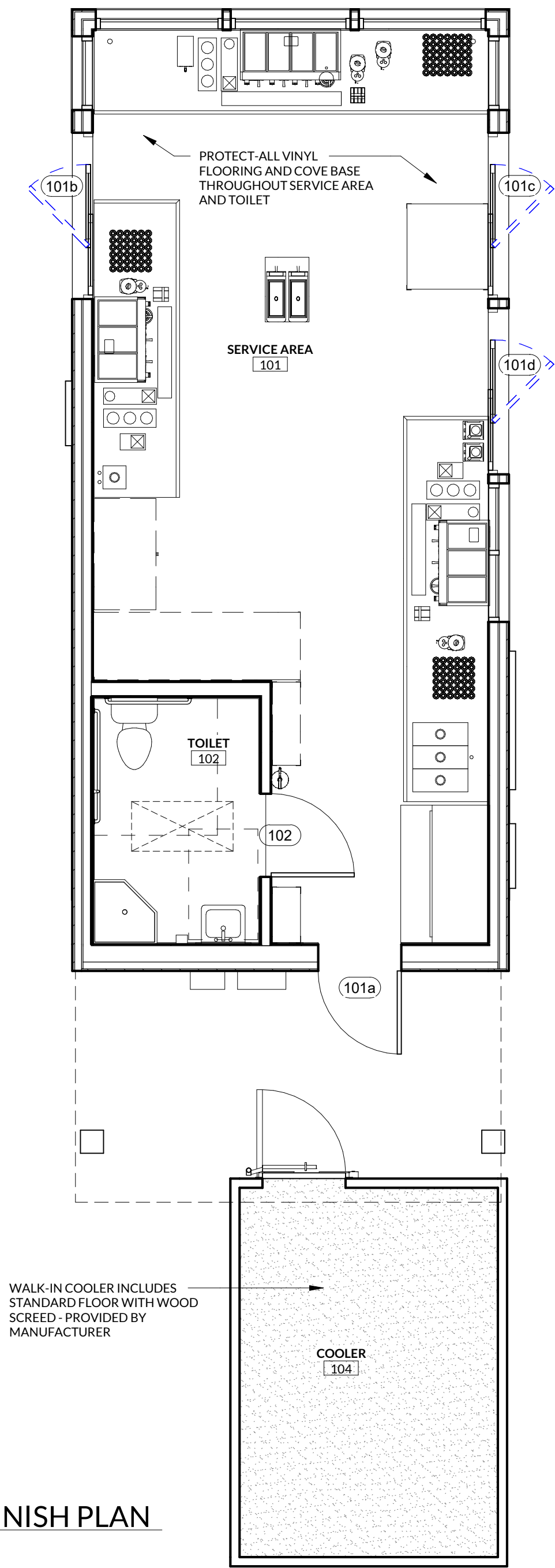
FRP PANELS PROVIDED AND INSTALLED BY CONTRACTOR

### NOTES:

- CONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF THE LANDLORDS CRITERIA PRIOR TO CONSTRUCTION. FAILURE TO ACCOUNT HIMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE HIM FROM ANY RESPONSIBILITY.
- CONTRACTOR SHALL THOROUGHLY VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING AND CONSTRUCTION. ALL DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THESE DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE ARCHITECT.



3 FIXTURE PLAN  
1/4" = 1'-0"



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

7 BREW COFFEE  
LEE'S SUMMIT, MO

1430NE DOUGLAS ST.  
LEE'S SUMMIT, MO 64086



ARCHITECT OF RECORD:

NAME: ADAM KREHER

LICENSE NO. 2011002764

PROJECT NUMBER:  
220337BLS

REVISION: A ADD 001  
6/17/22

A1.1  
FLOOR PLANS

DATE: APRIL 22, 2022

**TORGERTSON**  
**DESIGN PARTNERS**  
ARCHITECTURE / REAL ESTATE / DEVELOPMENT



RELEASED FOR  
CONSTRUCTION  
As Noted on Plans Review  
Development Services Department  
Lee's Summit, Missouri  
09/07/2022  
116 NORTH 2ND AVENUE, OZARK, MO 65721 · P (417) 581-8889 · F (417) 581-9000  
ARCHITECTURAL CORPORATION MISSOURI LICENSE NUMBER: A-201001427



EGRESS LEGEND

PATH OF EGRESS TRAVELED: - - - - ->

SPACE OCCUPANCY:

ROOM NAME  
101

### SF  
468

FUNCTION  
KITCHEN

100 OCC.

ROOM NAME AND NUMBER

ROOM AREA, SQUARE FOOTAGE

USE GROUP PER IBC SECTION 3

OCCUPANCY: AREA OF SPACE/AREA ALLOWANCES PER IBC TABLE 1004.1.2

DOOR EXIT CAPACITY:

DOOR EXIT  
000 OCC.

00" REQD.

00" PROVIDED

EXIT TYPE (DOOR, STAIR, ETC)

NUMBER OF OCCUPANTS USING THE EXIT.

EGRESS WIDTH REQUIRED FOR NUMBER OF OCCUPANTS USING THE EXIT PER IBC SECTION 1005.

EGRESS WIDTH PROVIDED.

EGRESS LOADING INFORMATION

OCCUPANCY LOADING CALCULATIONS  
PER IBC 2018: TABLE 1004.1.2

#	ROOM	OCCUPANCY	CALCULATION	OCCUPANTS
101	SERVICE AREA	KITCHEN	468 SF/200 SF	3
104	COOLER	STORAGE	124 SF/300 SF	1
201	MECH. ACCESS ROOM	STORAGE	131 SF/300 SF	1

EXIT CAPACITY:  
EGRESS WIDTH REQUIRED: 5 OCCUPANTS X 0.2" PER OCCUPANT REQUIRED = 1.0"  
EGRESS WIDTH PROVIDED: 36"  
EGRESS WIDTH OF 0.2" PER OCCUPANT USED FOR DOORS PER IBC TABLE 1005.

NUMBER OF EXITS REQUIRED:  
(1) EXIT REQUIRED FOR PER STORY FOR LESS THAN 49 OCCUPANTS PER IBC TABLE 1006.2.1.  
(1) EXIT PROVIDED.

MAXIMUM TRAVEL DISTANCE:  
200'-0" PER IBC TABLE 1017.2  
ACTUAL MAX TRAVEL DISTANCE TO EXIT: 32'-0"

DEAD END CORRIDOR:  
20'-0" MAX LENGTH OF DEAD END CORRIDOR PER IBC SECTION 1018

RESTROOM LOADING

OCCUPANCY:  
5 OCCUPANTS

RESTROOM FIXTURES REQUIRED/PROVIDED - USE GROUP: BUSINESS

TOILET COUNT:

- = 1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50

LAVATORY COUNT:

- = 1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80

TUB/ SHOWERS:

- = NOT REQUIRED

DRINKING FOUNTAINS:

- = 1 PER 100

OTHER:

- = 1 SERVICE SINK

PLUMBING FIXTURE COUNT PER IBC TABLE 2902.1

TOILET COUNT:

- = 1 WATER CLOSET REQUIRED / 25 WATER CLOSETS PROVIDED
- = 1 UNISEX WATER CLOSET PROVIDED

LAVATORY COUNT:

- = 1 REQUIRED / 40 SINKS PROVIDED

DRINKING FOUNTAIN COUNT:

- = 1 REQUIRED / 100 DRINKING FOUNTAINS PROVIDED

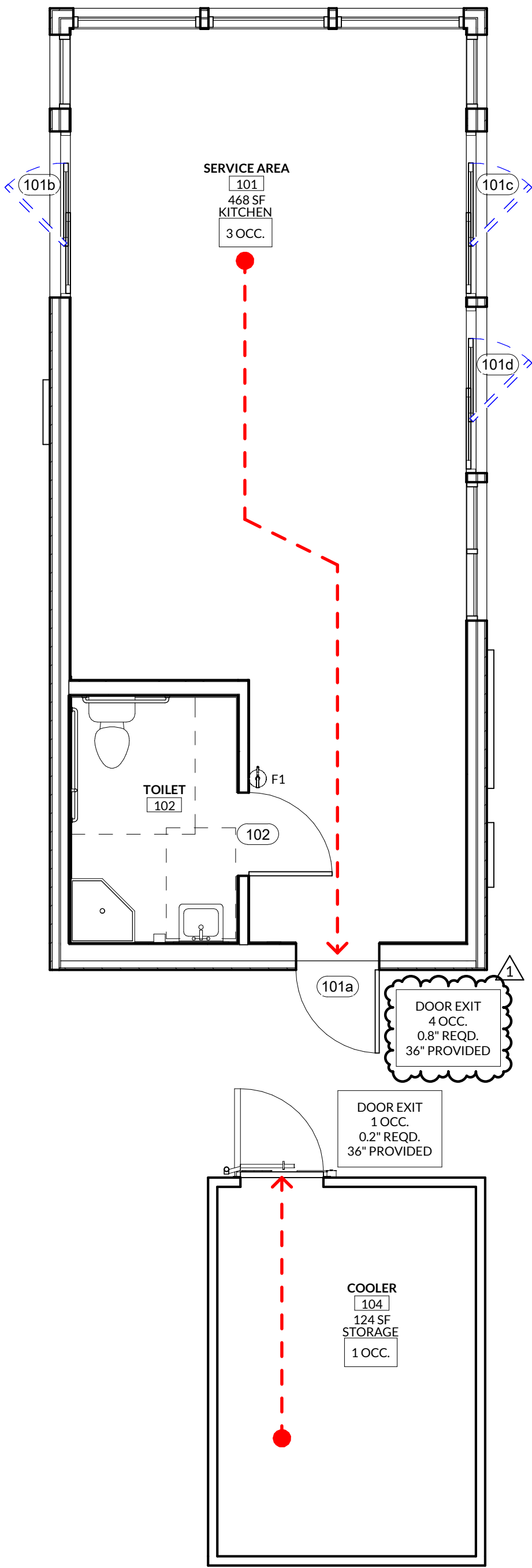
SERVICE SINK COUNT:

- = 1 REQUIRED / 1 PROVIDED

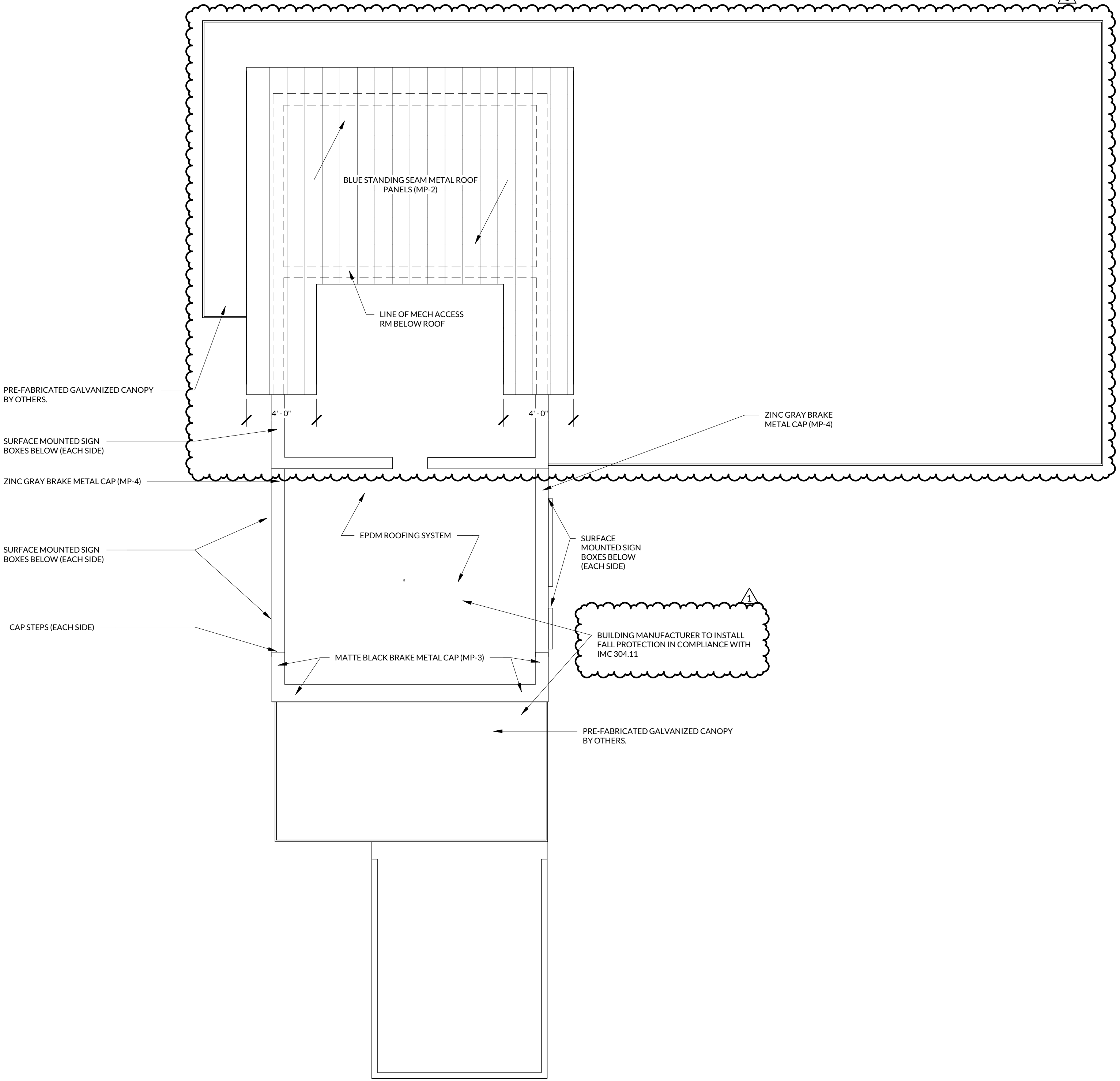
FIRE EXTINGUISHER NOTES

F1 10 LBS, ABC FIRE EXTINGUISHER ON WALL MOUNTED BRACKET. MOUNT HANDLE @ 4'-0".

75'-0" RADIUS FROM FIRE EXTINGUISHER @ F1 (NOT SHOWN, ENCOMPASSES ENTIRE BUILDING)



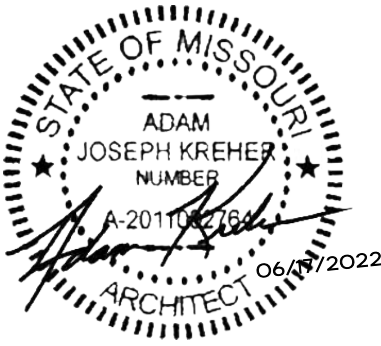
1 EGRESS PLAN  
1/4" = 1'-0"



2 ROOF PLAN  
1/4" = 1'-0"

7 BREW COFFEE  
LEE'S SUMMIT, MO

143 ONE DOUGLAS ST.  
LEE'S SUMMIT, MO 64086



ARCHITECT OF RECORD:  
NAME: ADAM KREHER  
LICENSE NO. 2011002764

PROJECT NUMBER:  
220333 7BLS

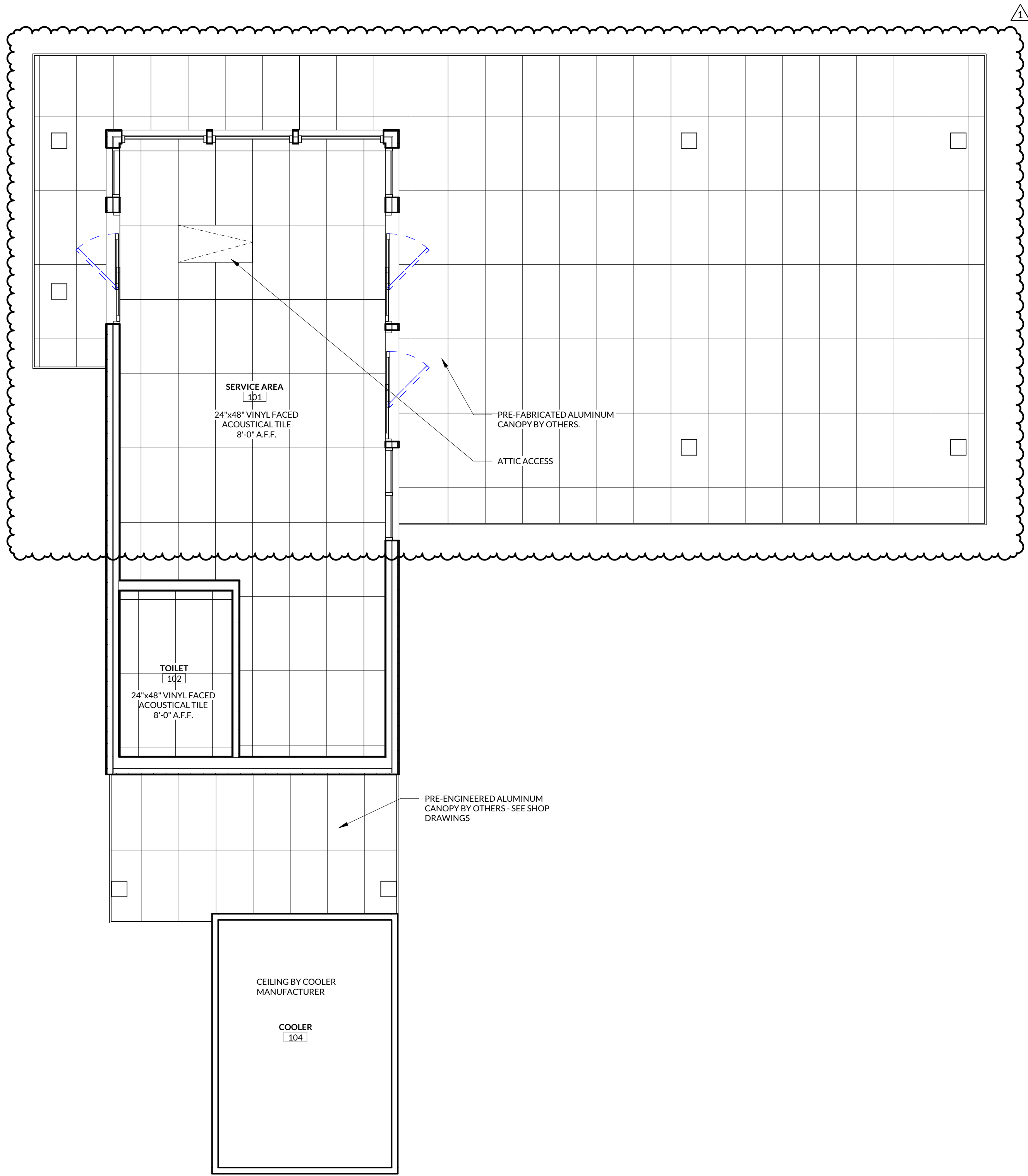
REVISION: A ADD 001  
6/17/22

A1.2

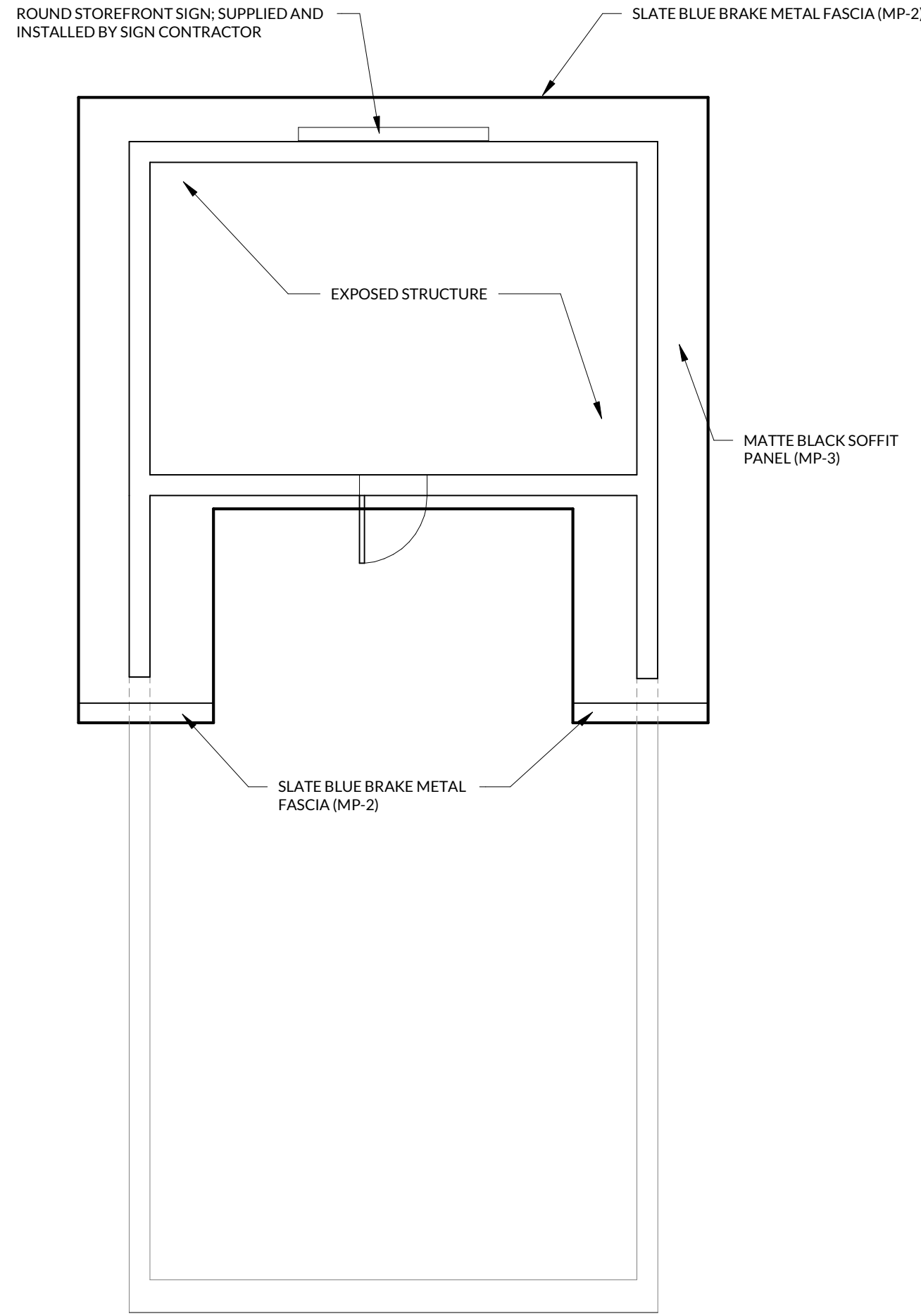
ROOF PLAN /  
EGRESS PLAN  
DATE: APRIL 22, 2022



1 RCP - GROUND LEVEL  
1/4" = 1'-0"




2 RCP - ATTIC FLOOR  
1/4" = 1'-0"



ARCHITECT OF RECORD:  
NAME: ADAM KREHER  
LICENSE NO. 2011002764

PROJECT NUMBER:  
22033 7BLS

REVISION:  ADD 001  
6/17/22

A1.3  
REFLECTED CEILING  
PLANS  
DATE: APRIL 22, 2022

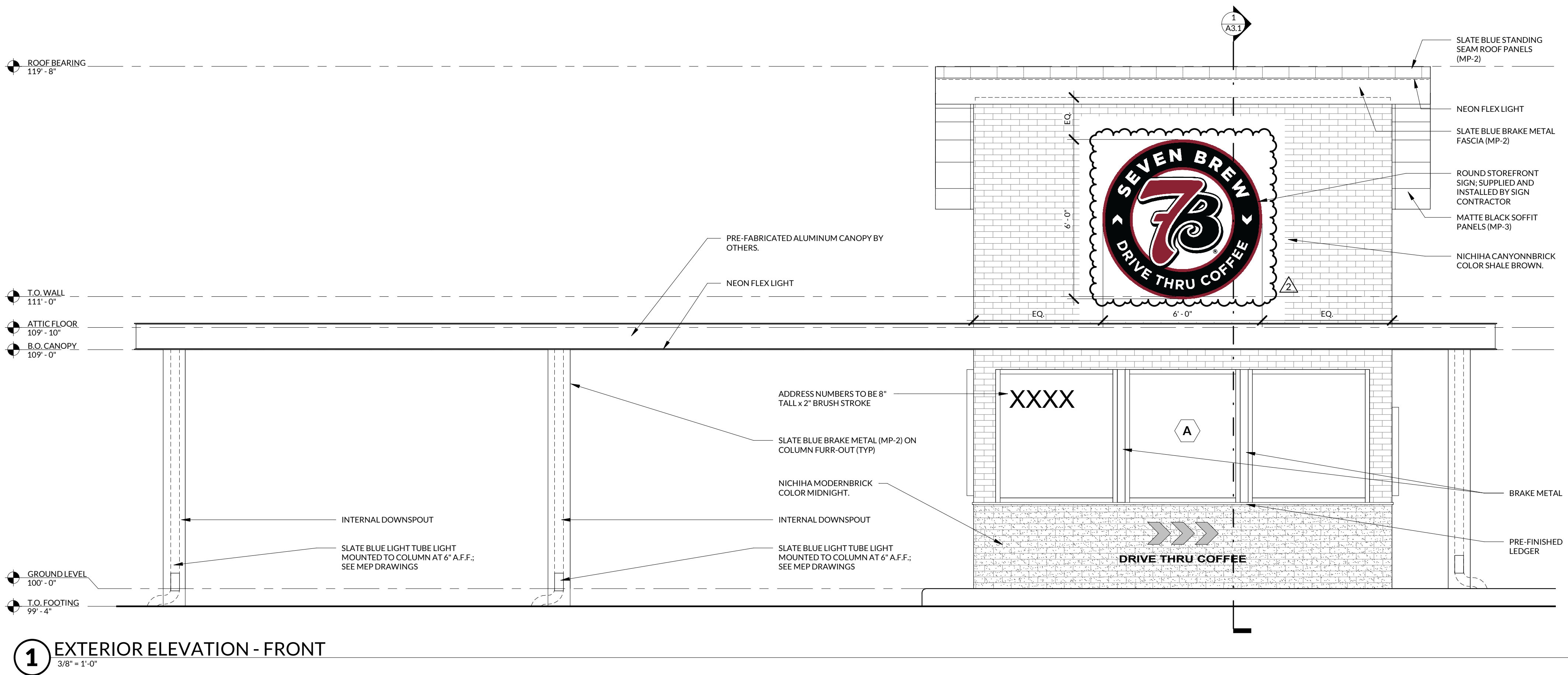
7 BREW COFFEE  
LEE'S SUMMIT, MO

143 ONE DOUGLAS ST.  
LEE'S SUMMIT, MO 64086

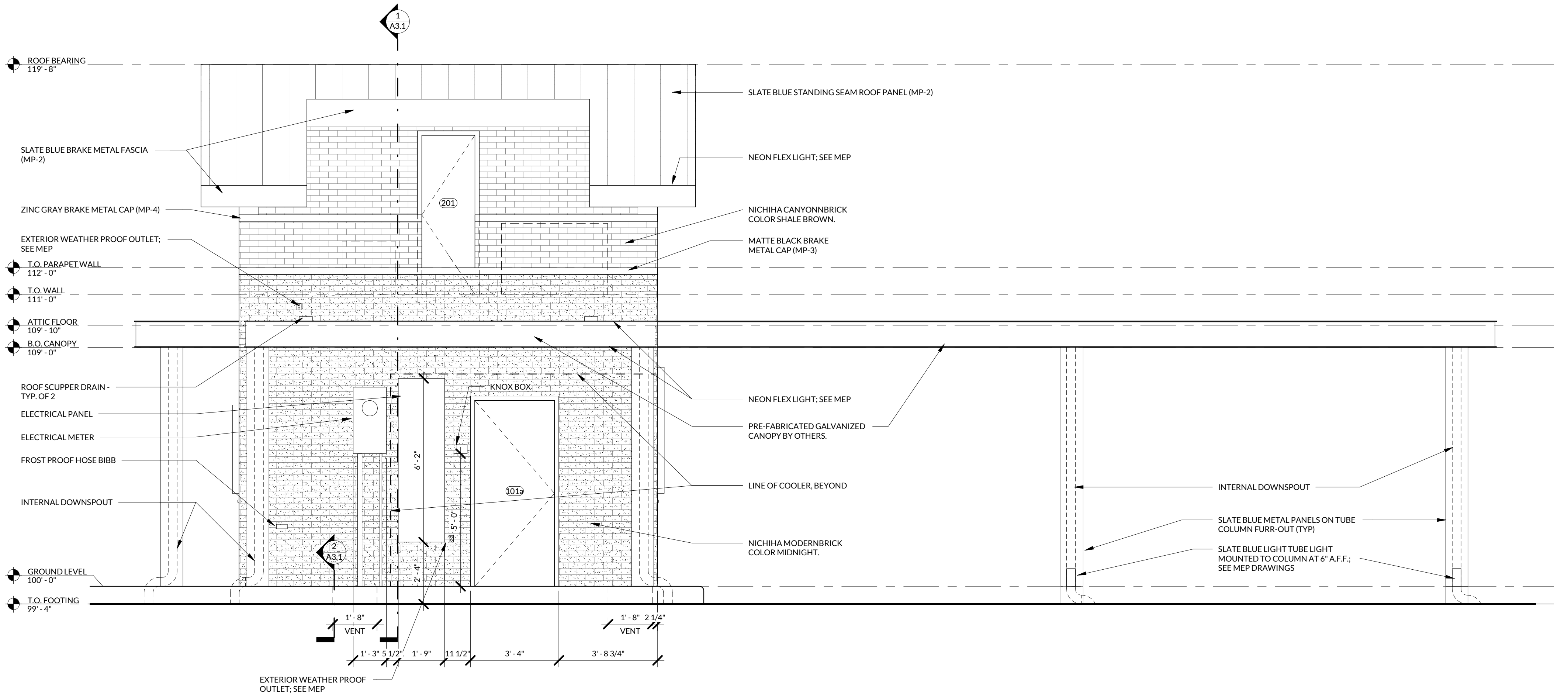


116 NORTH 2ND AVENUE, OZARK, MO 65721 · P (417) 581-8889 · F (417) 581-9000  
Lee's Summit, Missouri  
09/07/2022  
ARCHITECTURAL CORPORATION MISSOURI LICENSE NUMBER: A-2010011427





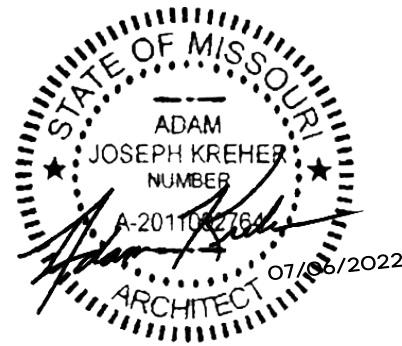
1 EXTERIOR ELEVATION - FRONT  
3/8" = 1'-0"



2 EXTERIOR ELEVATION - BACK  
3/8" = 1'-0"

7 BREW COFFEE  
LEE'S SUMMIT, MO

1430 NE DOUGLAS ST.  
LEE'S SUMMIT, MO 64086



ARCHITECT OF RECORD:  
NAME: ADAM KREHER  
LICENSE NO. 2011002764

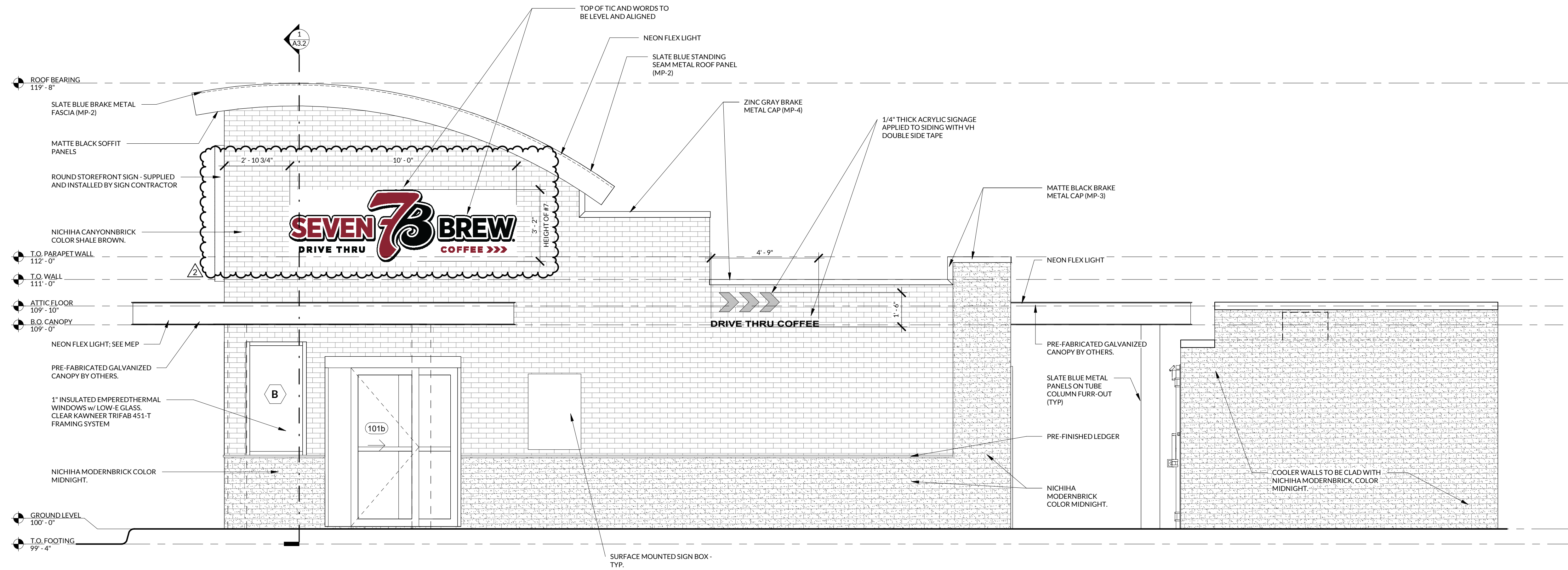
PROJECT NUMBER:  
220337BLS

REVISION: 1 ADD 001 6/17/22  
2 ADD 002 7/5/22

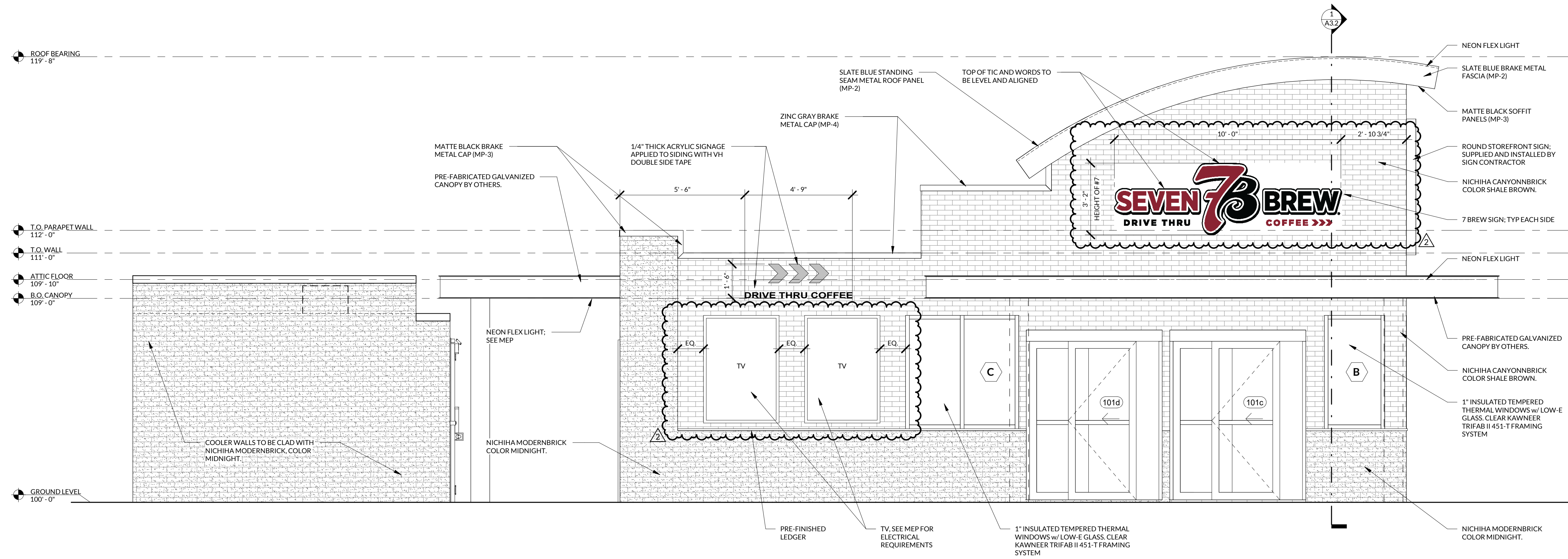
A2.1

EXTERIOR  
ELEVATIONS  
DATE: APRIL 22, 2022





1 EXTERIOR ELEVATION - RIGHT SIDE  
3/8" = 1'-0"



2 EXTERIOR ELEVATION - LEFT SIDE  
3/8" = 1'-0"

7 BREW COFFEE  
LEE'S SUMMIT, MO

143 ONE DOUGLAS ST.  
LEE'S SUMMIT, MO 64086



ARCHITECT OF RECORD:  
NAME: ADAM KREHER  
LICENSE NO. 2011002764

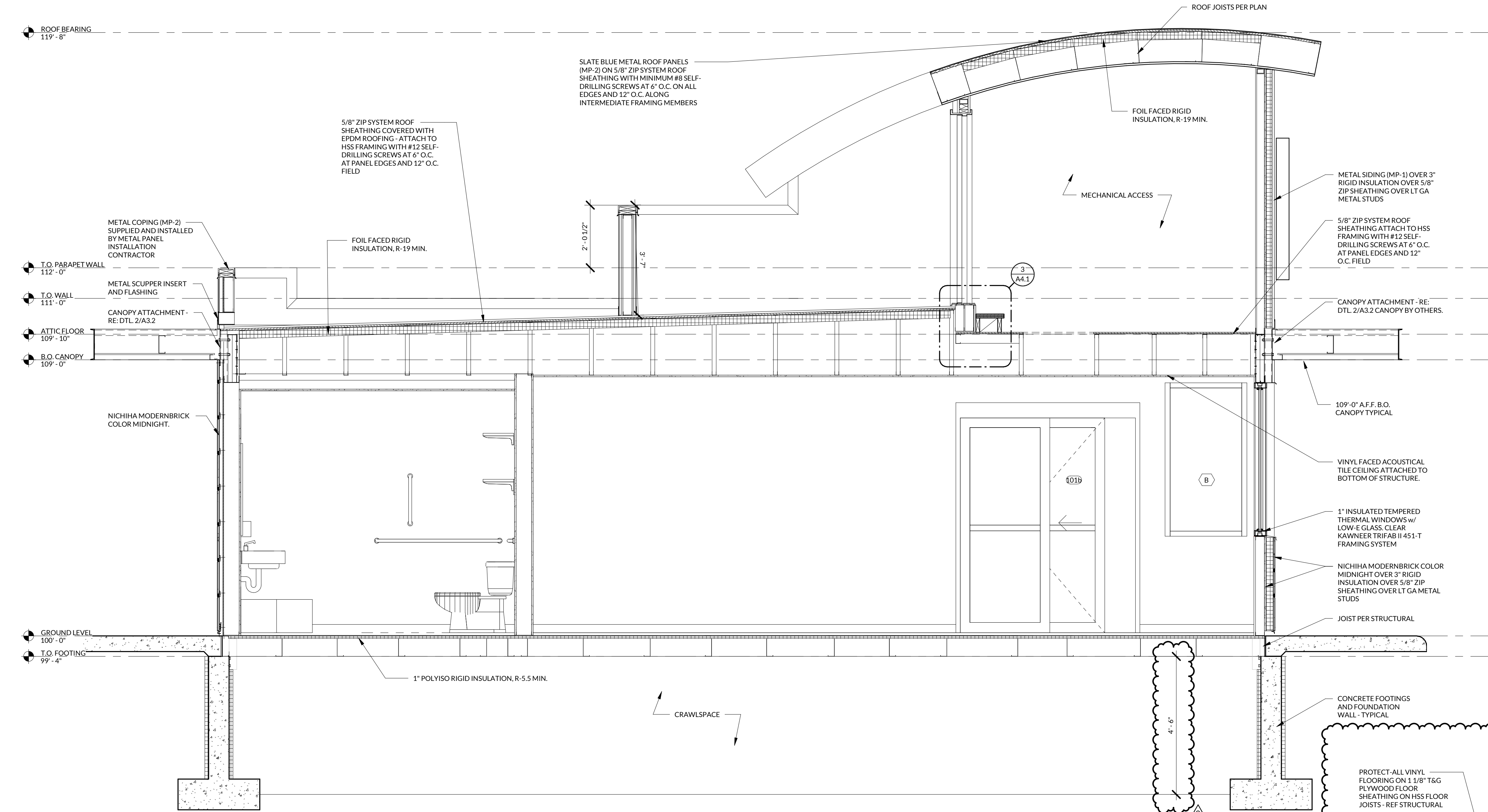
PROJECT NUMBER:  
22033 7BLS

REVISION: A ADD 001 6/17/22  
B ADD 002 7/5/22

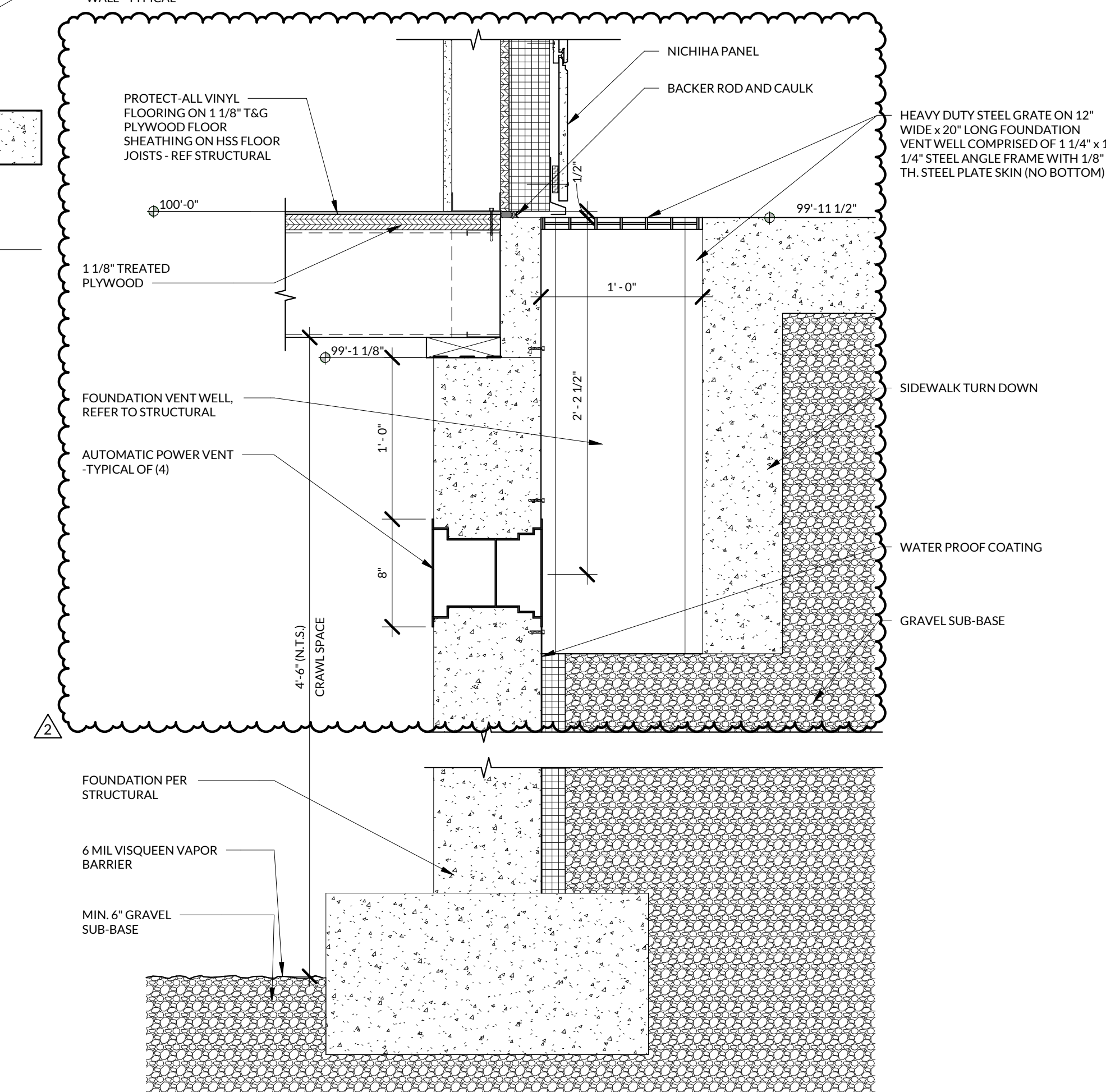
A2.2

EXTERIOR  
ELEVATIONS  
DATE: APRIL 22, 2022





**1 BUILDING SECTION**  
1/2" = 1'-0"



**2 FOUNDATION VENT WELL DETAIL**  
1 1/2" = 1'-0"

RELEASED FOR CONSTRUCTION  
As Noted on Plans Review

Development Services Department  
Lee's Summit, Missouri  
09/07/2022

116 NORTH 2ND AVENUE, OZARK, MO 65721 • P (417) 581-8889 • F (417) 581-9000  
ARCHITECTURAL CORPORATION MISSOURI LICENSE NUMBER: A-2010011427

TORGERSON  
DESIGN PARTNERS  
ARCHITECTURE / REAL ESTATE / DEVELOPMENT

7 BREW COFFEE  
LEE'S SUMMIT, MO

143 ONE DOUGLAS ST.  
LEE'S SUMMIT, MO 64086



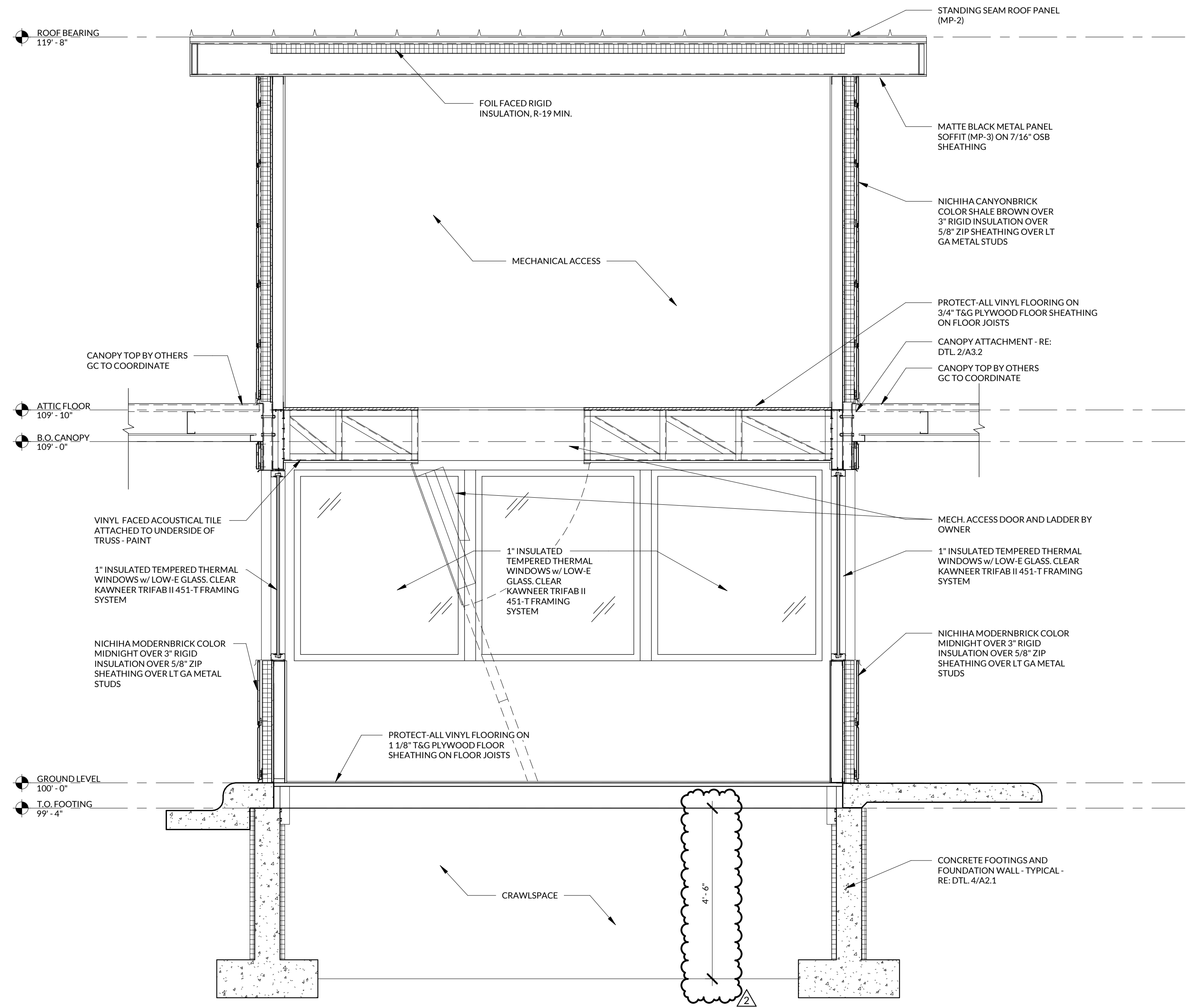
ARCHITECT OF RECORD:  
NAME: ADAM KREHER  
LICENSE NO. 2011002764

PROJECT NUMBER:  
220337BLS

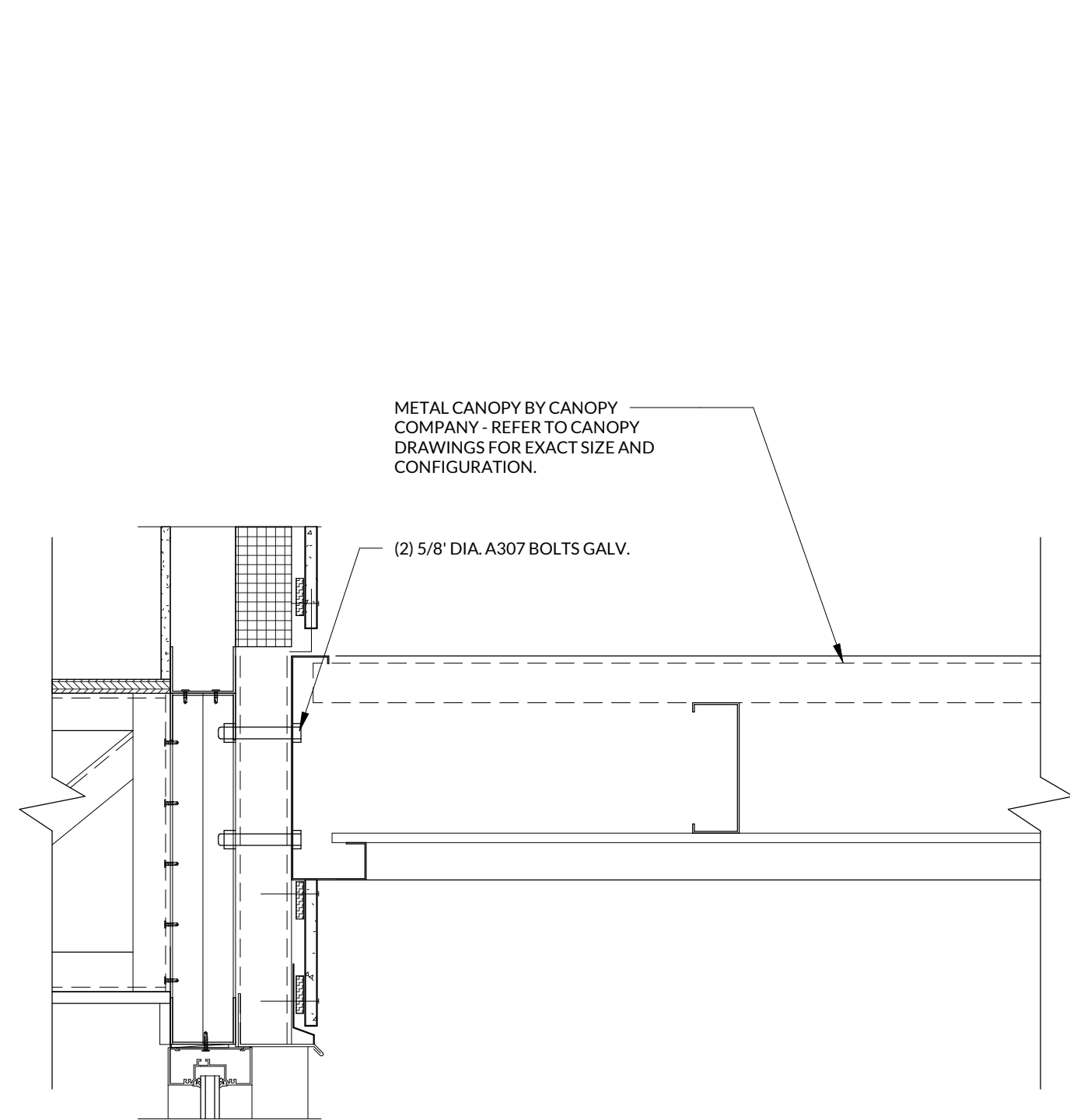
REVISION: ADD 001  
6/17/22  
 ADD 002  
7/5/22

**A3.1**  
SECTIONS AND  
DETAILS  
DATE: APRIL 22, 2022

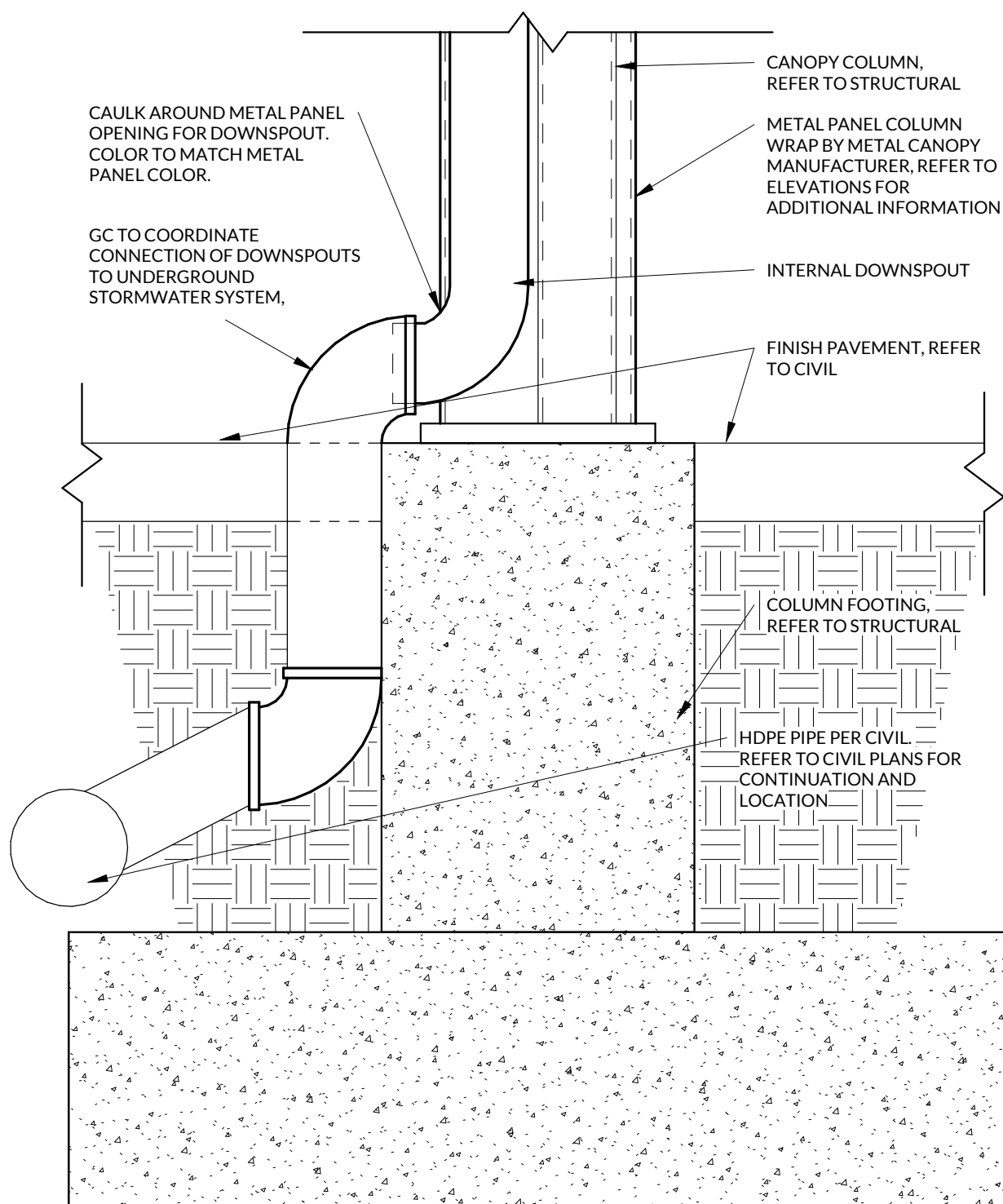




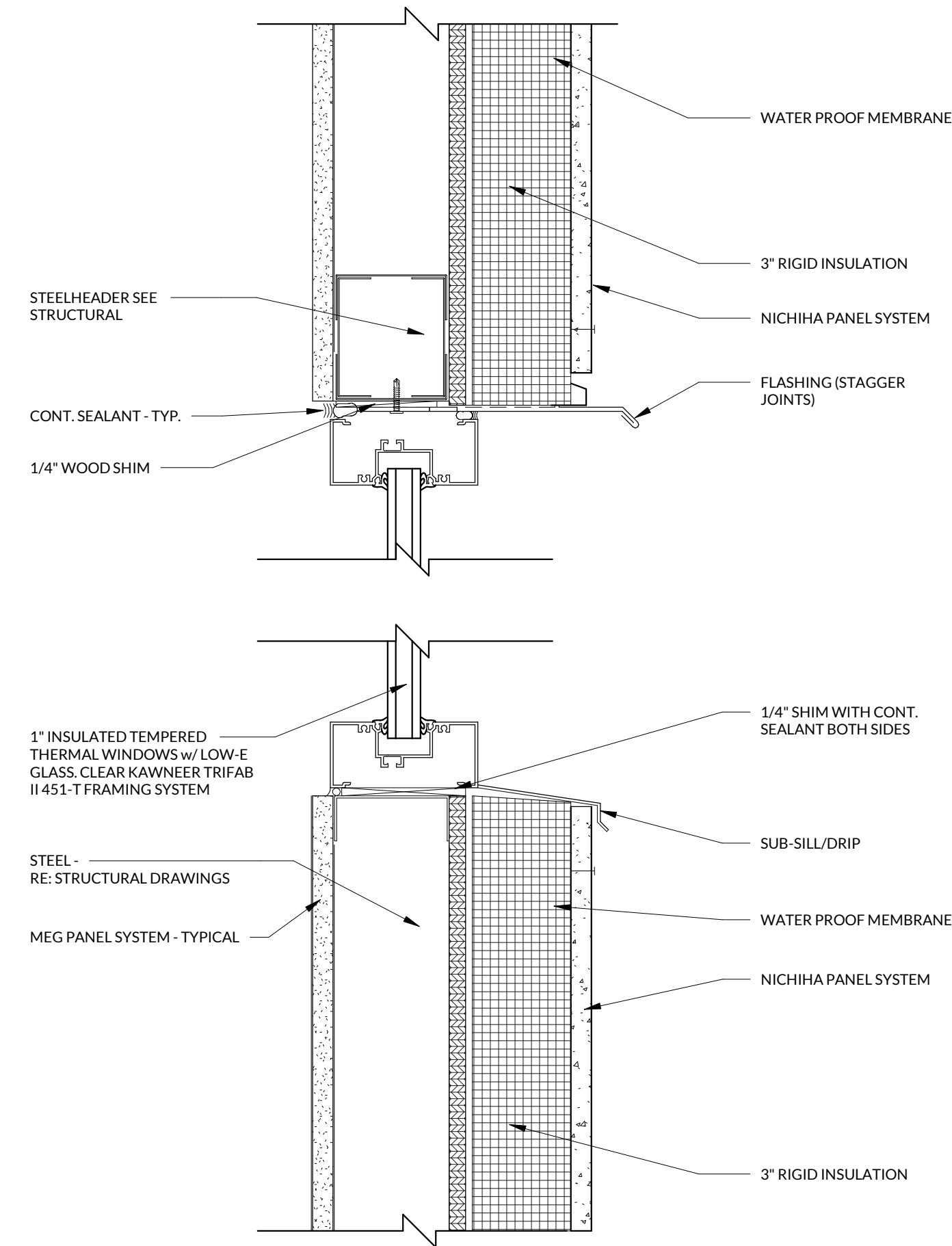
1 BUILDING SECTION  
1/2" = 1'-0"



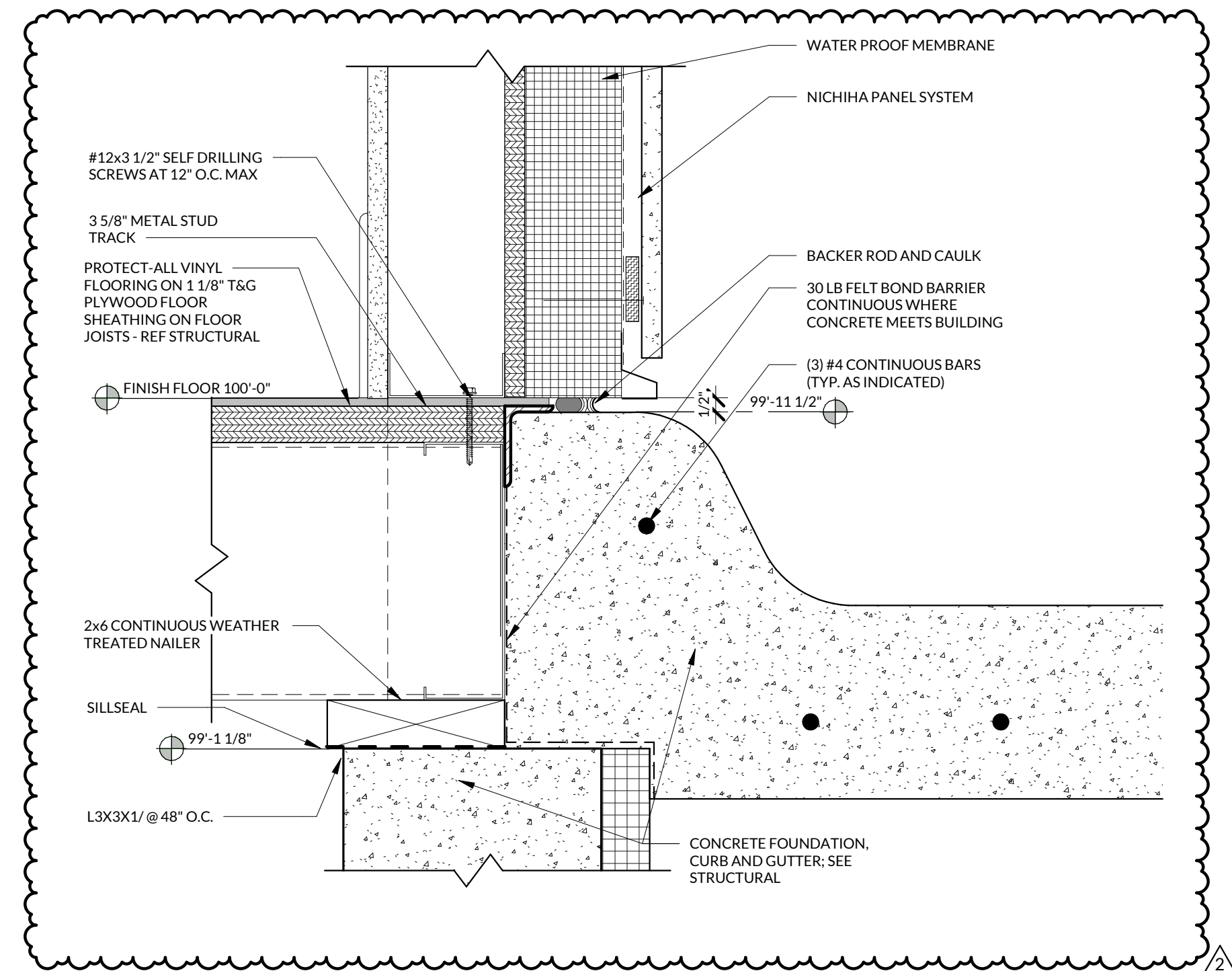
2 DETAIL - CANOPY CONNECTION DETAIL  
1 1/2" = 1'-0"



3 DETAIL - DOWNSPOUT COLLECTION CONNECTION  
1 1/2" = 1'-0"



4 ENLARGED WALL SECTION AT WINDOW  
3" = 1'-0"



7 BREW COFFEE  
LEE'S SUMMIT, MO

143 ONE DOUGLAS ST.  
LEE'S SUMMIT, MO 64086



ARCHITECT OF RECORD:  
NAME: ADAM KREHER  
LICENSE NO. 2011002764

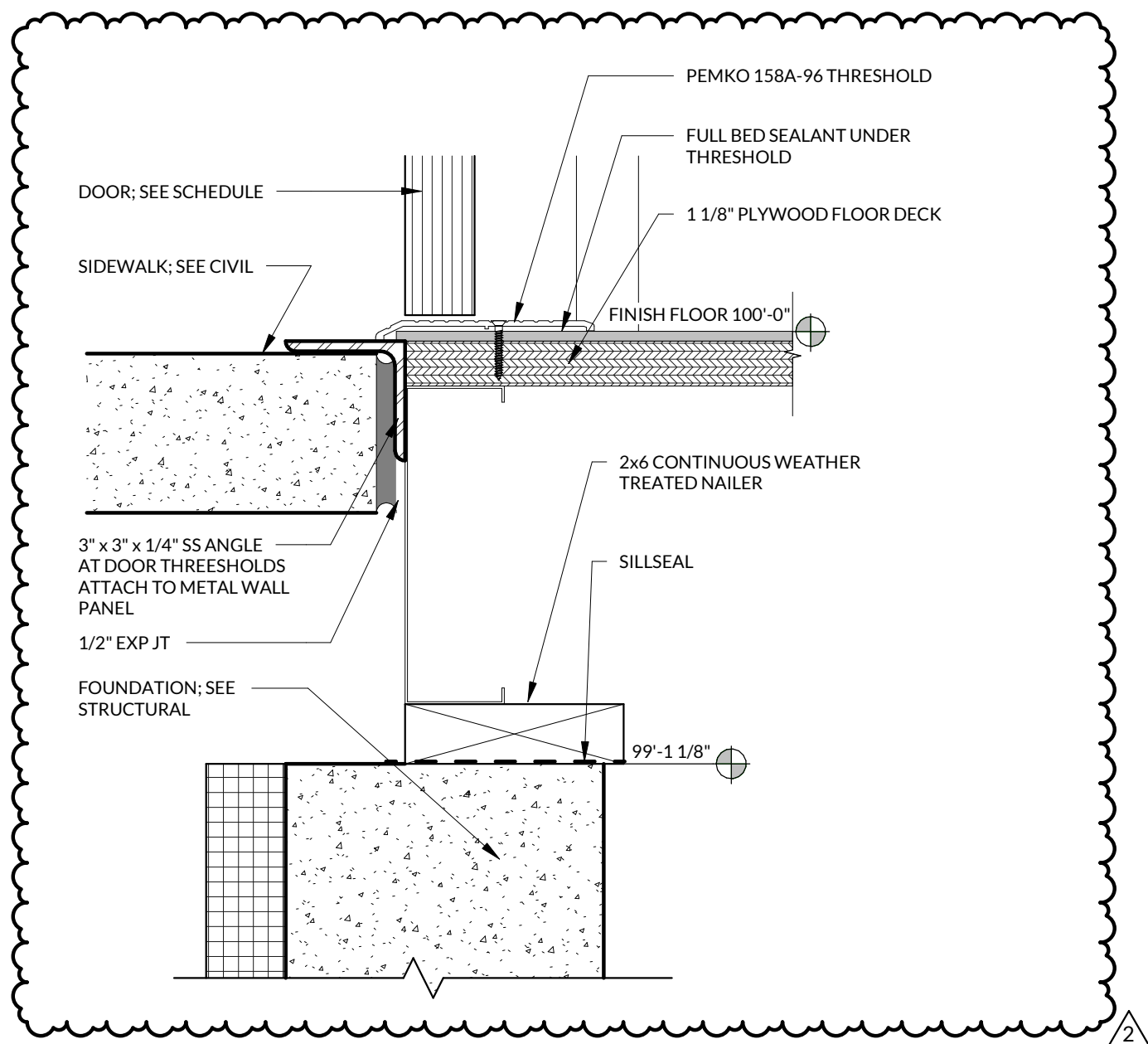
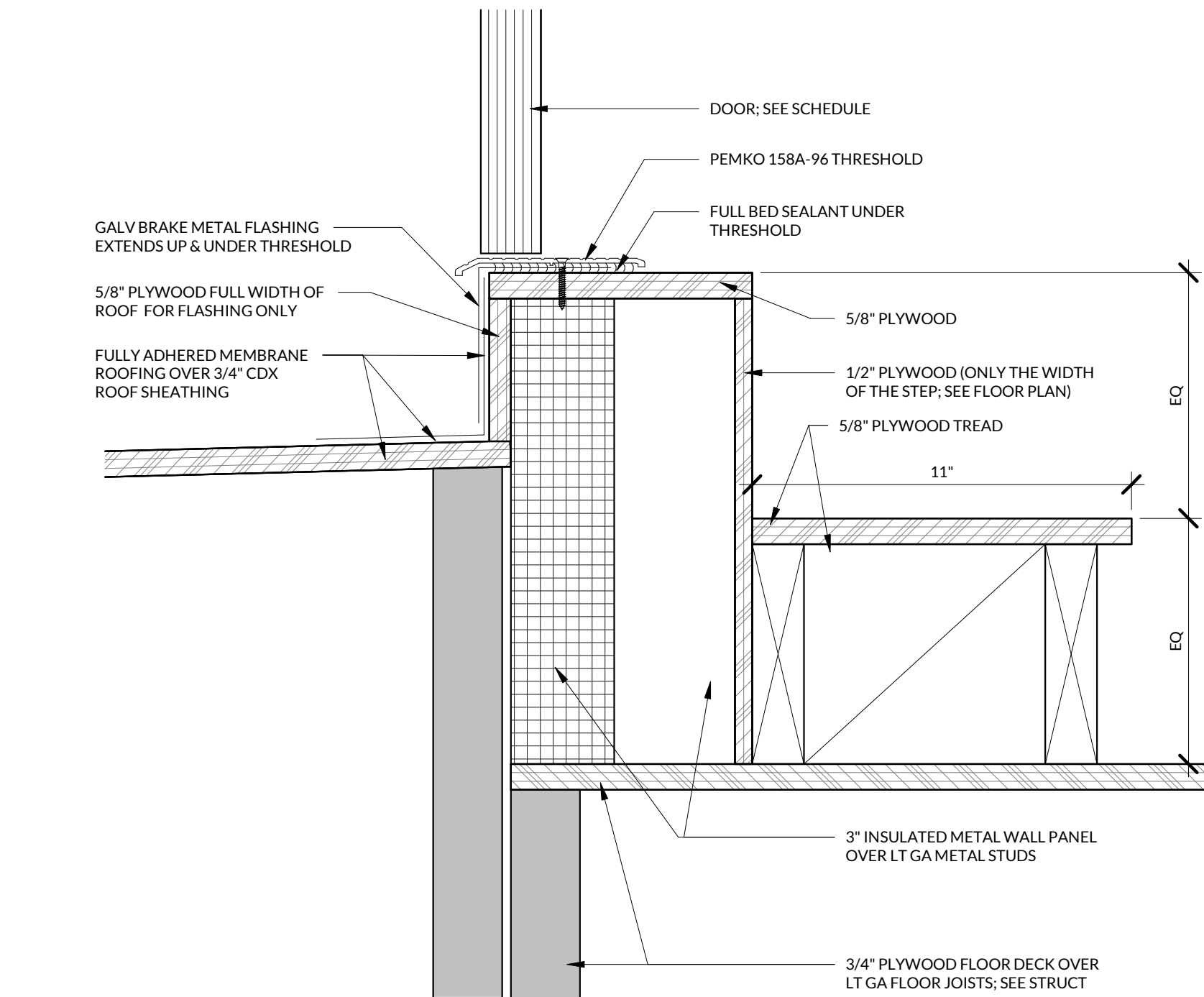
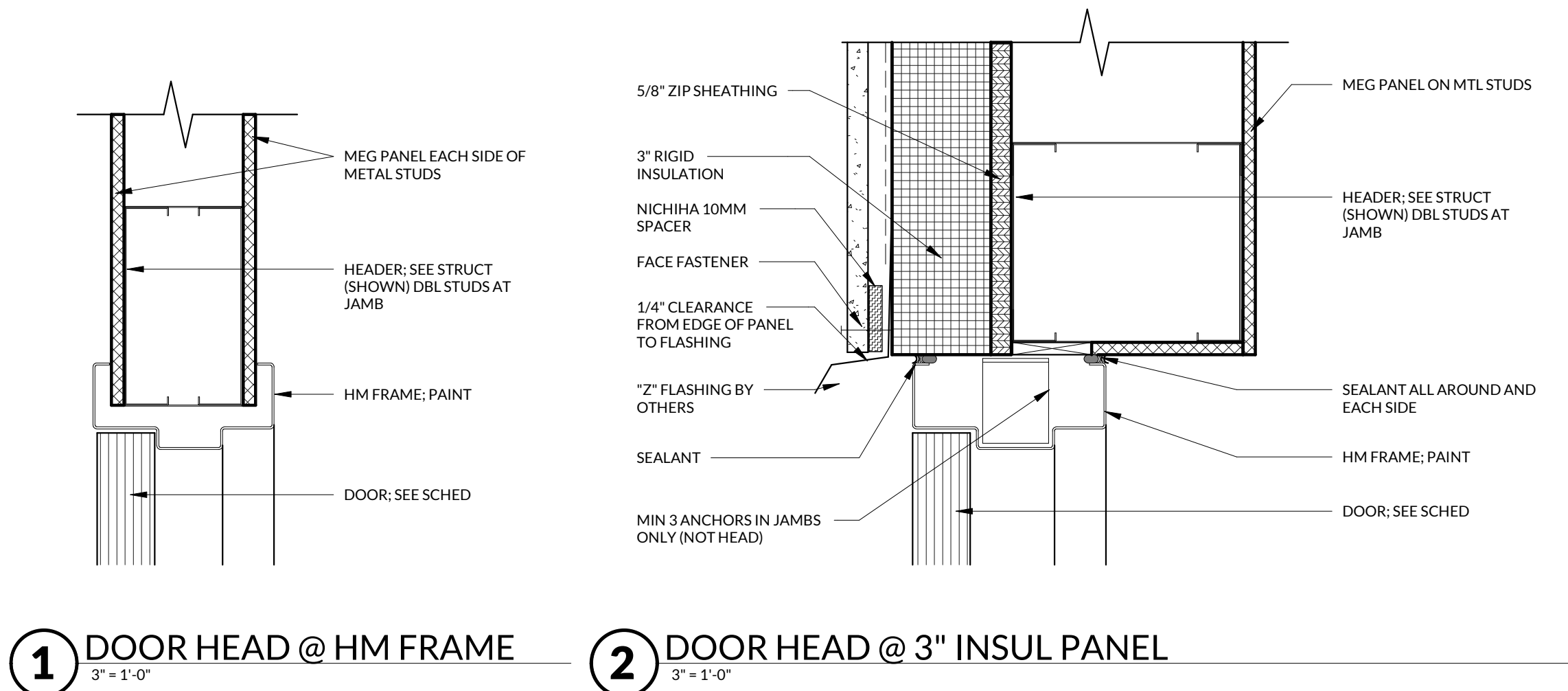
PROJECT NUMBER:  
220337BLS

REVISION: A ADD 002  
7/5/22

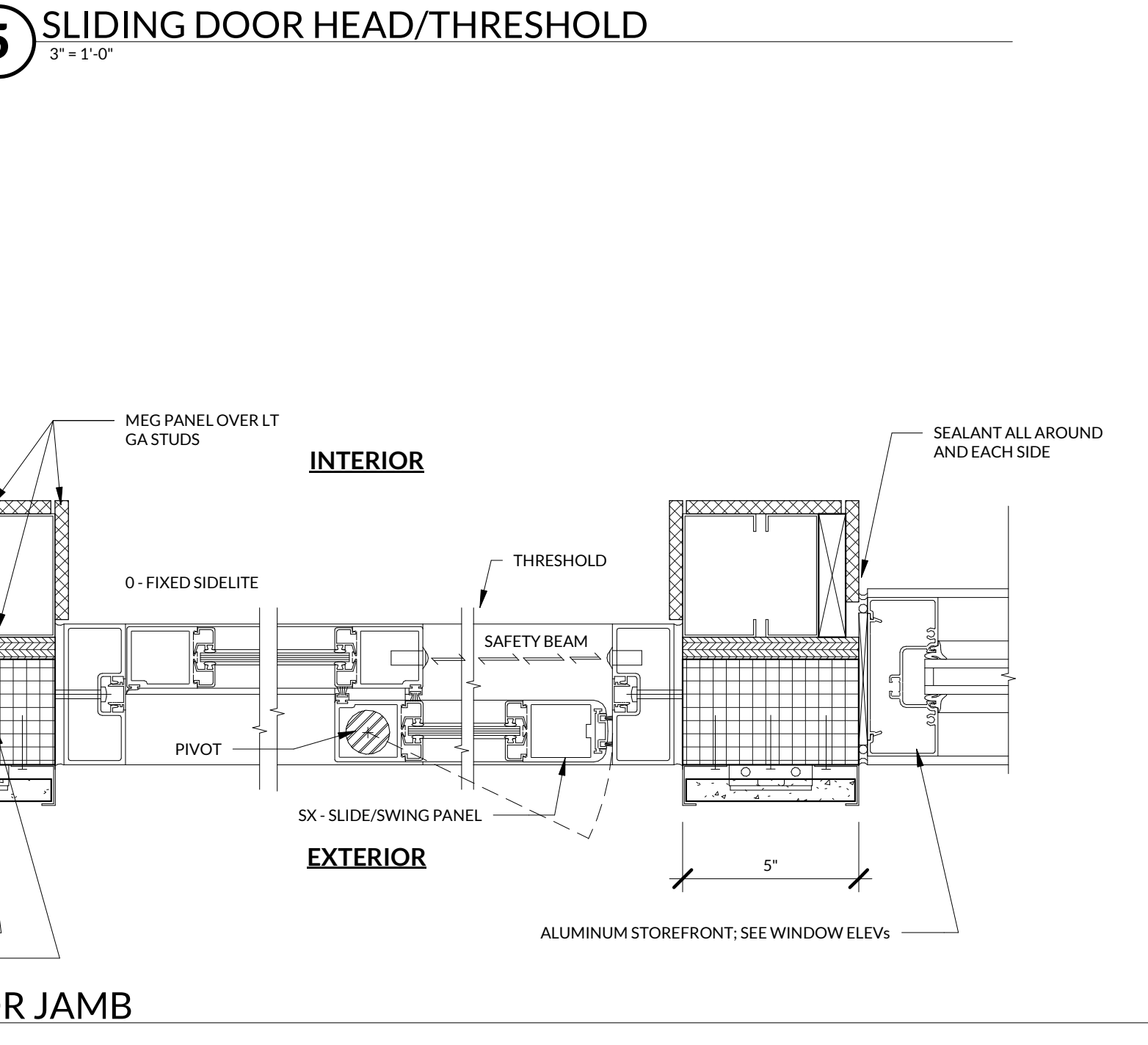
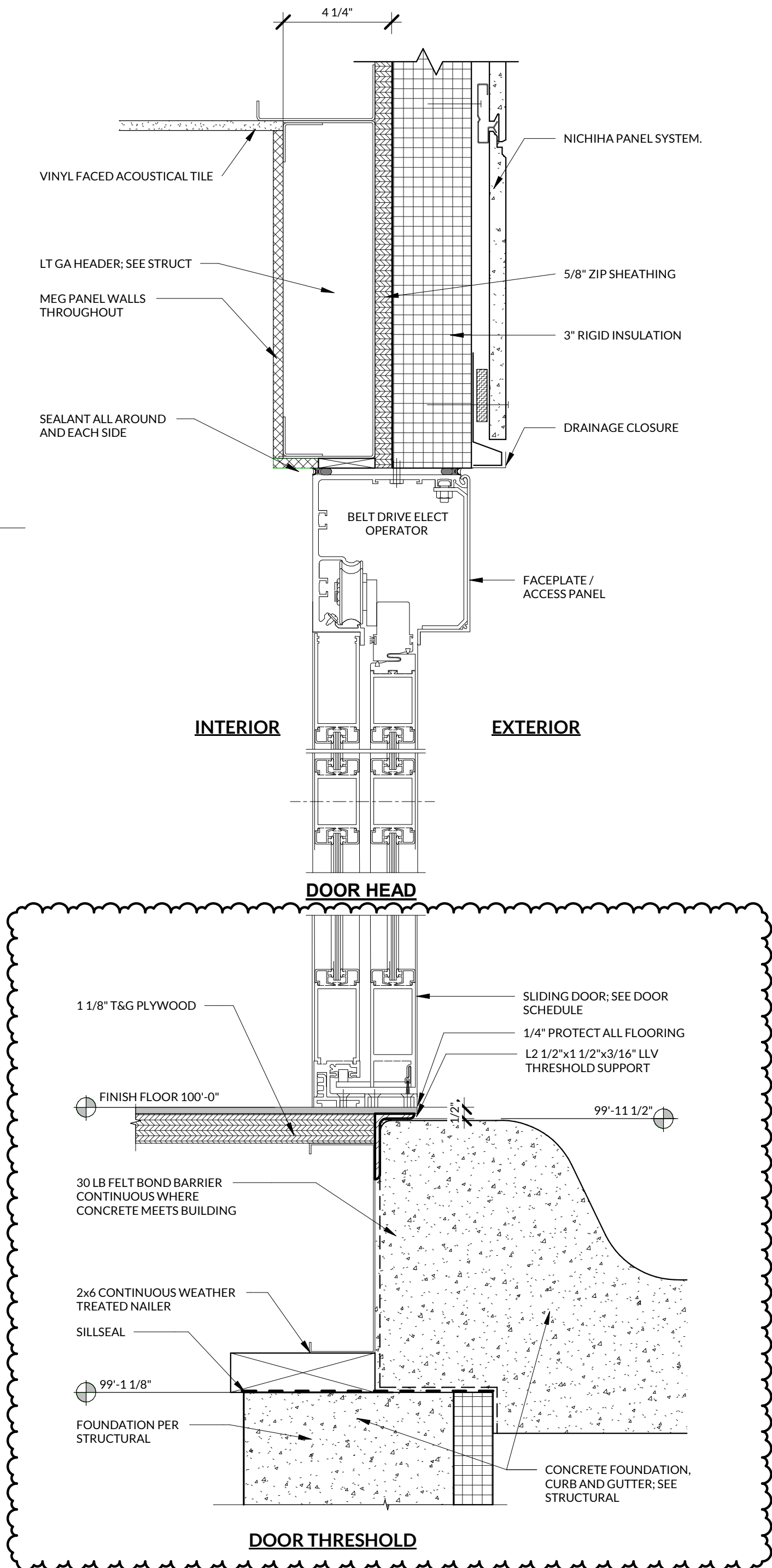
A3.2

SECTIONS AND  
DETAILS  
DATE: APRIL 22, 2022



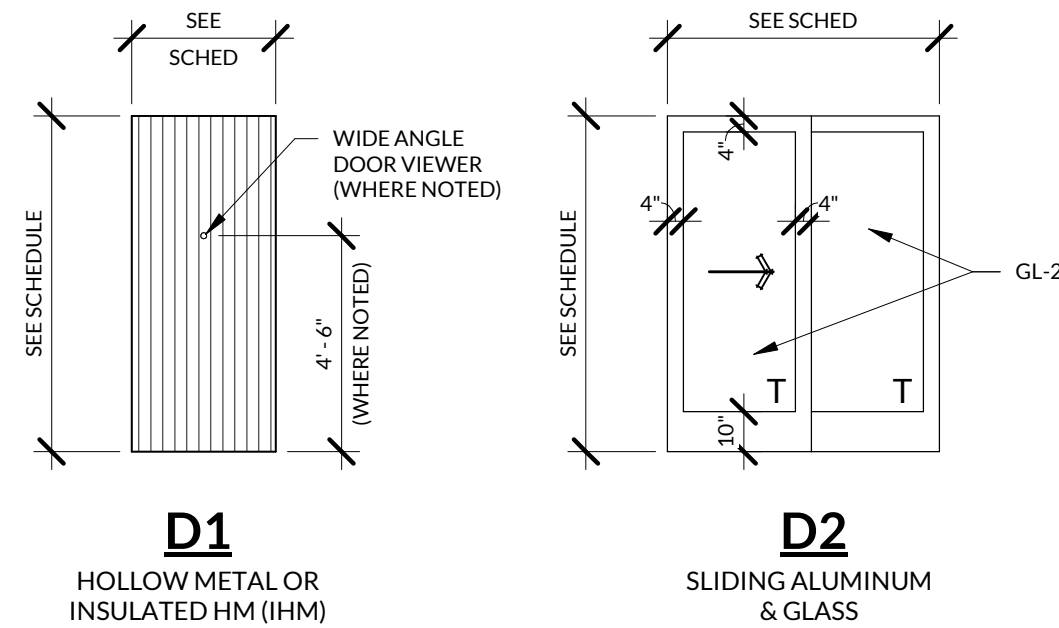


4 DOOR THRESHOLD @ MAIN FLOOR EXTERIOR DOOR  
3" = 1'-0"

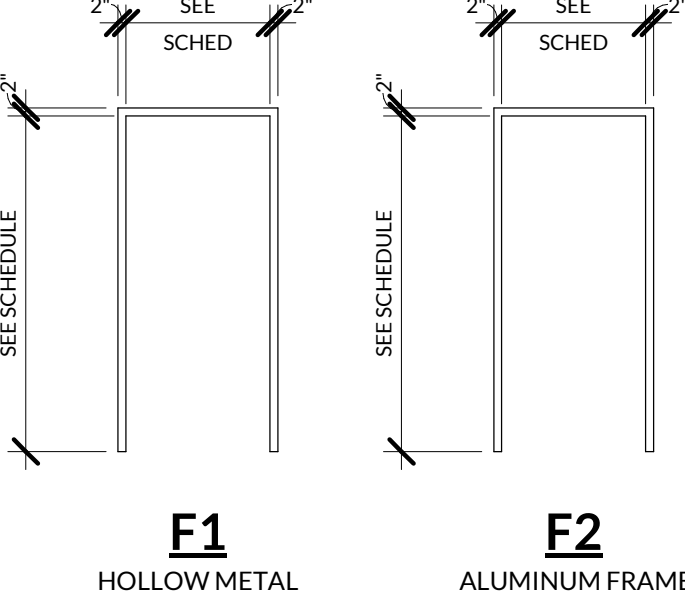


DOOR SCHEDULE												
DOOR NUMBER	ROOM	SIZE	DOOR		FRAME		DETAILS			FIRE RATING	HARDWARE SET	COMMENTS
			TYPE	MATERIAL	TYPE	MATERIAL	HEAD	JAMB	THRESHOLD			
101a	SERVICE AREA	3'-0"x7'-0"	D1	HM	F1	HM	2/A4.1	2/A4.1 SIM.	--		1	
101b	SERVICE AREA	6'-0"x7'-6"	D2	ALUM	F2	ALUM	3/A2.2	3/A2.2	--		4	
101c	SERVICE AREA	6'-0"x7'-6"	D2	ALUM	F2	ALUM	3/A2.2	3/A2.2	--		4	
101d	SERVICE AREA	6'-0"x7'-6"	D2	ALUM	F2	ALUM	3/A2.2	3/A2.2	--		4	
102	TOILET	3'-0"x7'-0"	D1	HM	F1	HM	1/A4.1	1/A4.1 SIM.	--		2	
201	MECH. ACCESS ROOM	2'-0"x6'-0"	D1	IHM	F1	HM	2/A4.1	2/A4.1 SIM.	--		3	

### DOOR ELEVATIONS



### FRAME ELEVATIONS



### DOOR SCHEDULE NOTES:

- REFER TO DOOR SCHEDULE FOR HARDWARE SETS
- PAINT TO MATCH ADJACENT FINISHES
- REFER TO CODE COMPLIANCE DOOR NOTES (BELOW) FOR ADDITIONAL REQUIREMENTS.

### CODE COMPLIANCE DOOR NOTES:

- ALL EXIT DOORS SHALL CONFORM TO THE FOLLOWING PROVISIONS OF THE INTERNATIONAL BUILDING CODE (IBC) AND THE STATE OF MISSOURI ACCESSIBILITY CODE:
- THE EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF ANY SPECIAL KNOWLEDGE OR EFFORT WHEN THE BUILDING IS OCCUPIED.
  - ALL HAND-ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 34" TO 48" A.F.F. AND SHALL BE OPERATED WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE.
  - DOOR LEADING TO UNSEX TOILET ROOM SHALL BE IDENTIFIED WITH A 12" DIAMETER CIRCLE WITH A TRIANGLE SUPERIMPOSED ON THE CIRCLE AND WITHIN THE 12" DIAMETER. SIGN/SYMBOL SHALL BE MOUNTED ON THE WAL ON THE LATCH SIDE OF THE DOOR AND 60" A.F.F. AND NO MORE THAN 8" FROM THE EDGE OF THE DOOR TO THE EDGE OF THE SIGN.

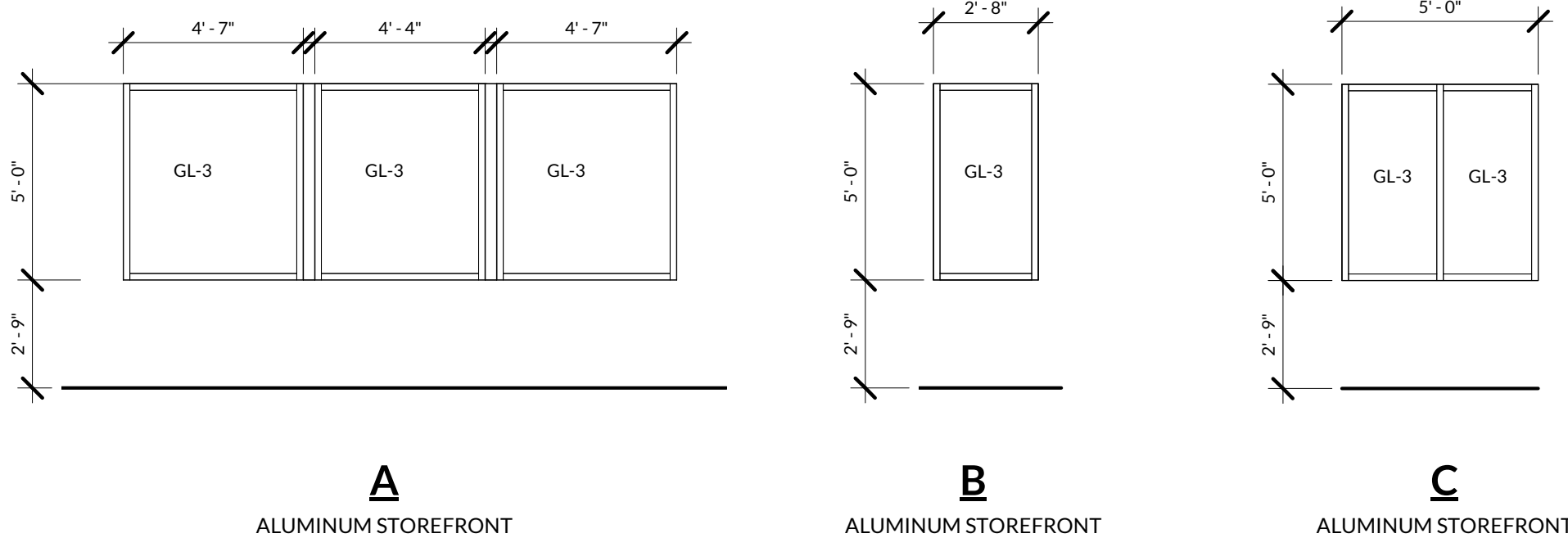
### GENERAL NOTES

- ALL GLAZING FOR EXTERIOR DOOR OR WINDOW FRAMES SHALL BE INSULATED
- ALL GLAZING FOR INTERIOR DOOR OR WINDOW FRAMES SHALL BE UNINSULATED, SINGLE PANE

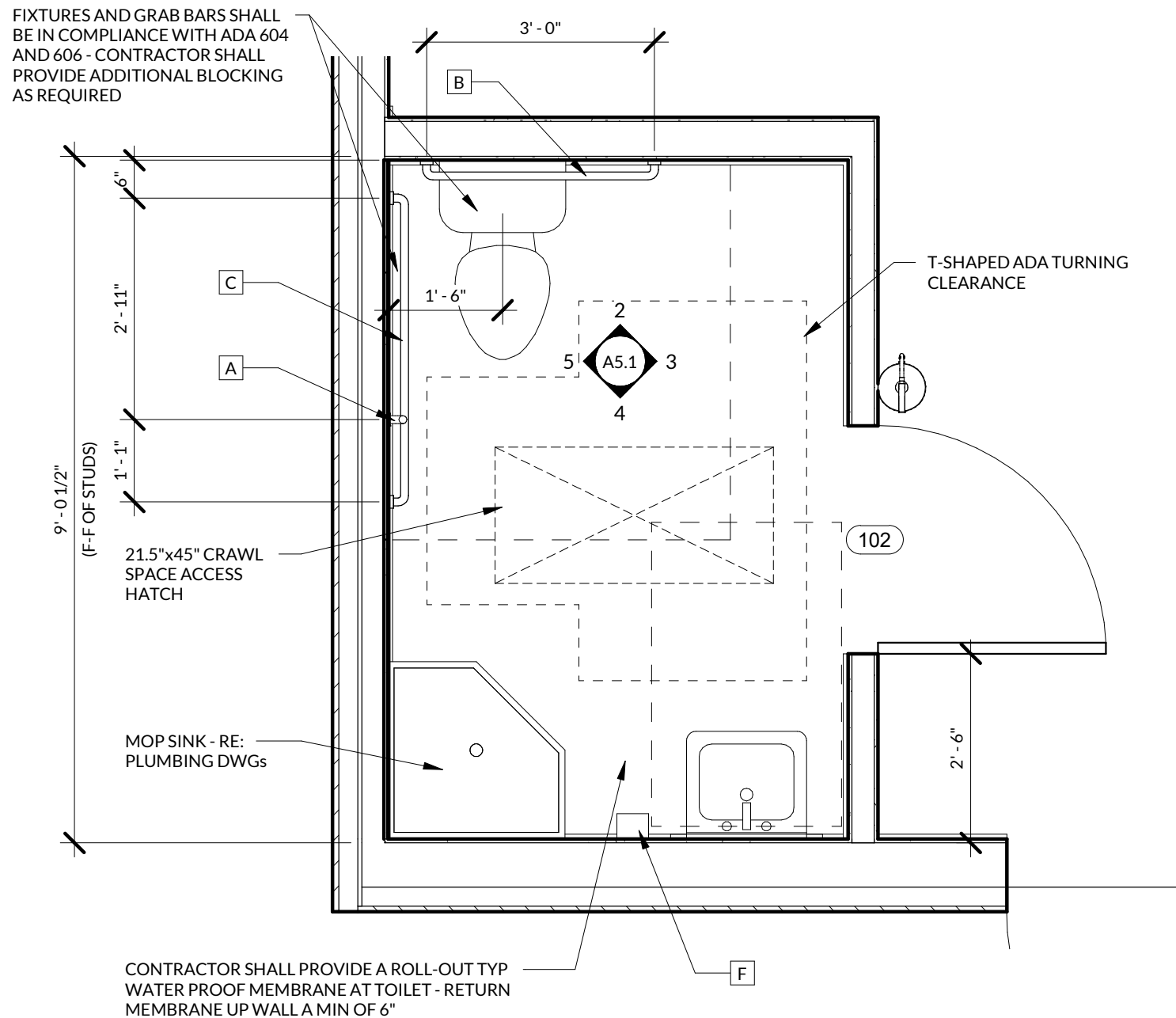
### DOOR & FRAME FINISH LEGEND

- AL = ALUM DOOR OR FRAME  
HM = HOLLOW METAL DOOR OR FRAME  
F1 = PAINTED  
F2 = PRE-FINISHED; CLEAN & PROTECT

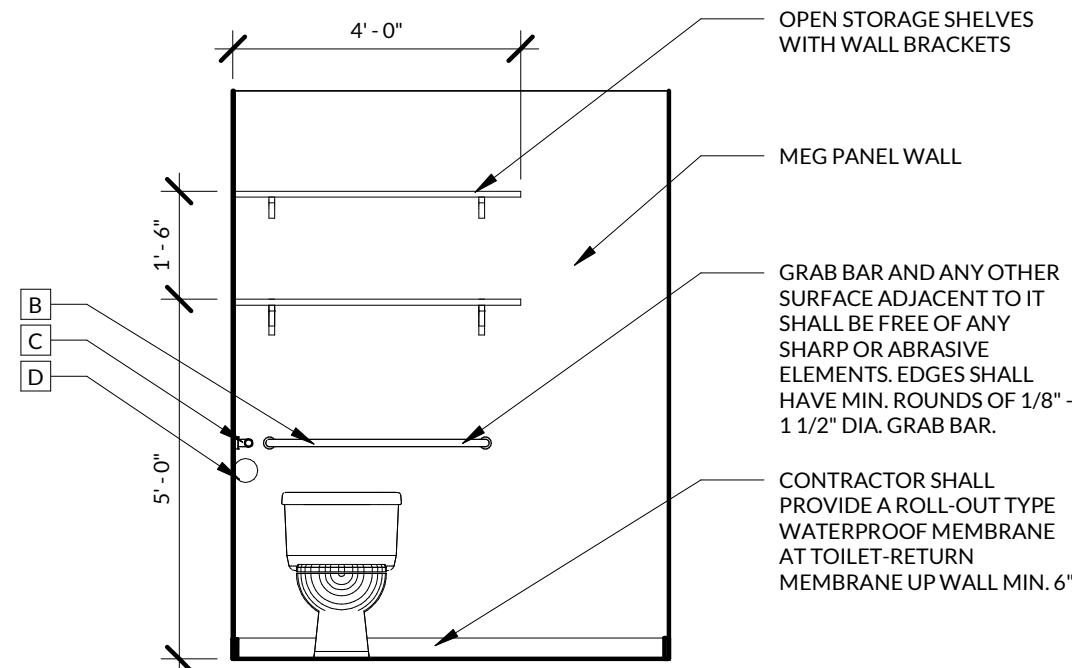
### WINDOW ELEVATIONS



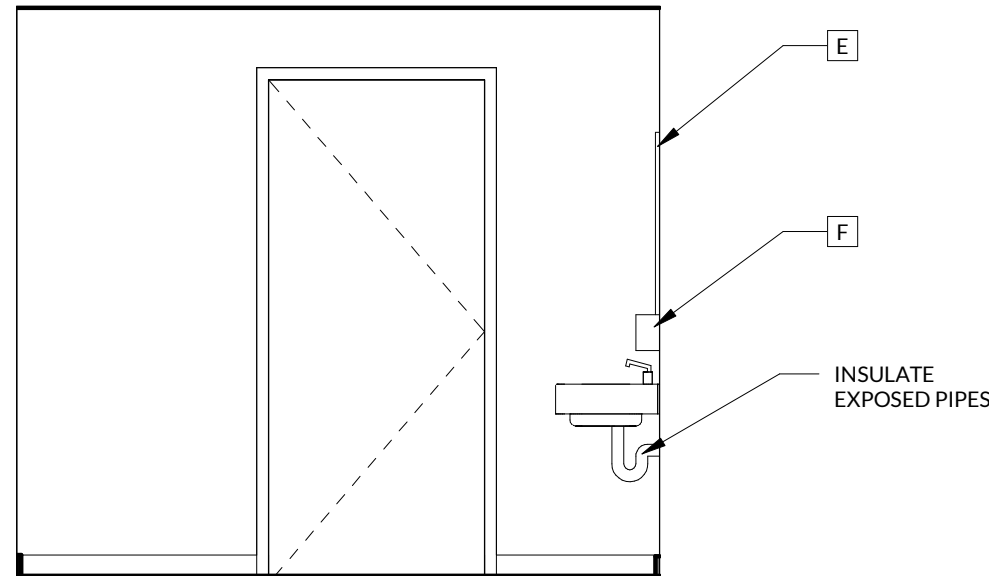




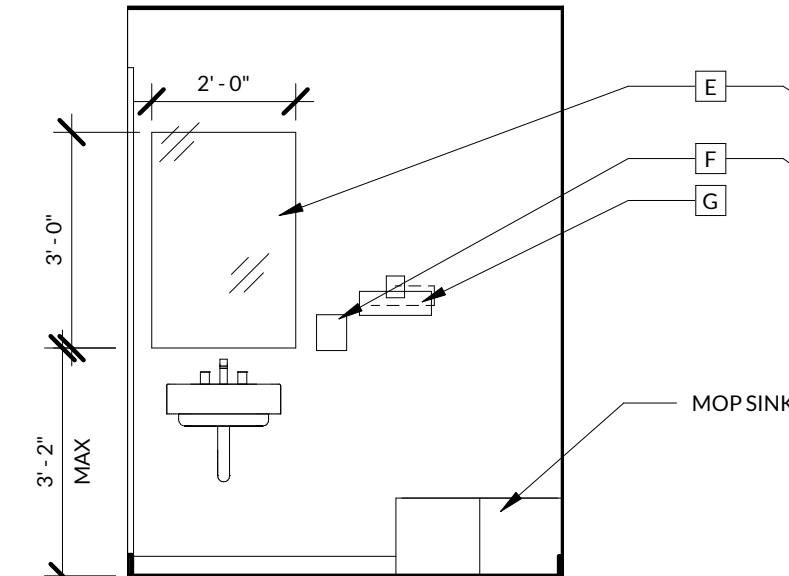
**1** ENLARGED RESTROOM PLAN  
1/2" = 1'-0"



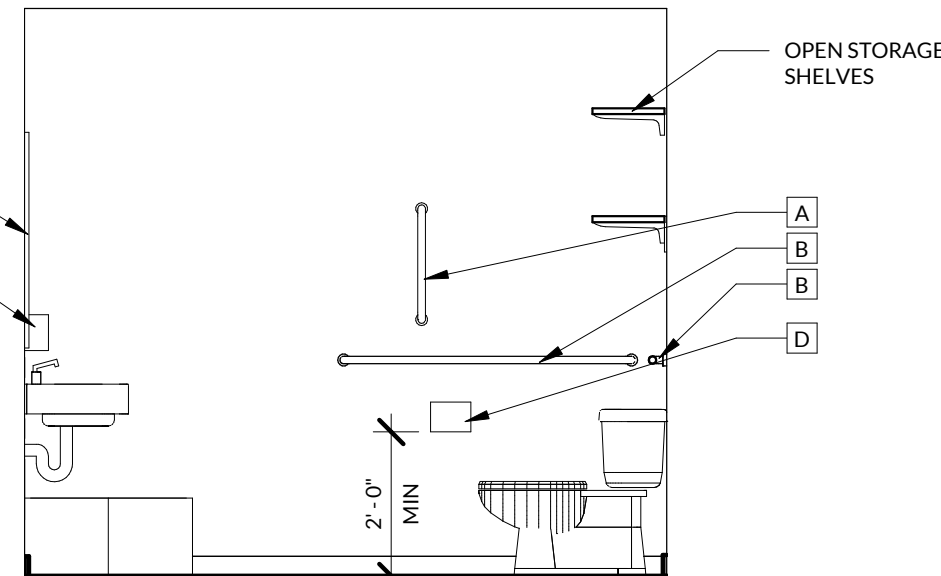
**2** RR 102 - NORTH ELEVATION  
3/8" = 1'-0"



**3** RR 102 - EAST ELEVATION  
3/8" = 1'-0"

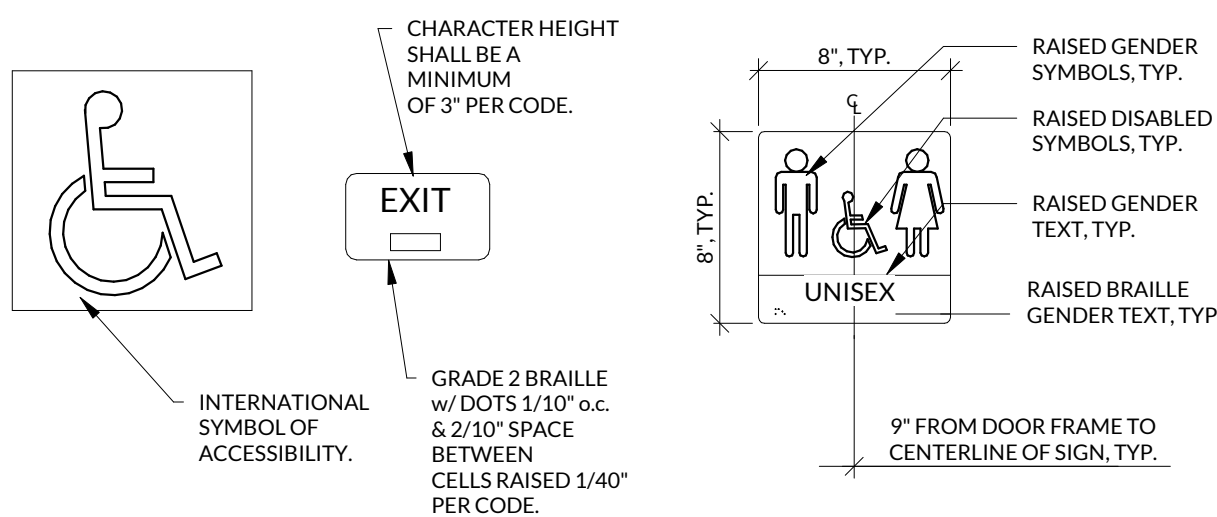


**4** RR 102 - SOUTH ELEVATION  
3/8" = 1'-0"



**5** RR 102 - WEST ELEVATION  
3/8" = 1'-0"

## RESTROOM SIGNAGE



### NOTES:

1. SIGNS SHALL CONFORM TO ANSI OR LOCAL ACCESSIBILITY GUIDELINES WHICHEVER IS MORE STRINGENT.
2. ALL BUILDINGS AND ENTRANCES THAT ARE ACCESSIBLE AND USABLE BY PERSONS WITH DISABILITIES SHALL BE IDENTIFIED WITH A MINIMUM OF ONE INTERNATIONAL SYMBOL OF ACCESSIBILITY.
3. G.C. TO PROVIDE TACTILE "EXIT" SIGNS AT ALL GRADE LEVEL EXIT DOORS PER CODE.
4. SIGNS TO BE INSTALLED ON THE LATCH SIDE OF THE DOOR, OR IF NO SPACE ON THE NEAREST WALL PREFERABLY ON THE RIGHT. SIGNAGE SHALL HAVE NON GLARE FINISH W/ A CONTRASTING BACKGROUND.

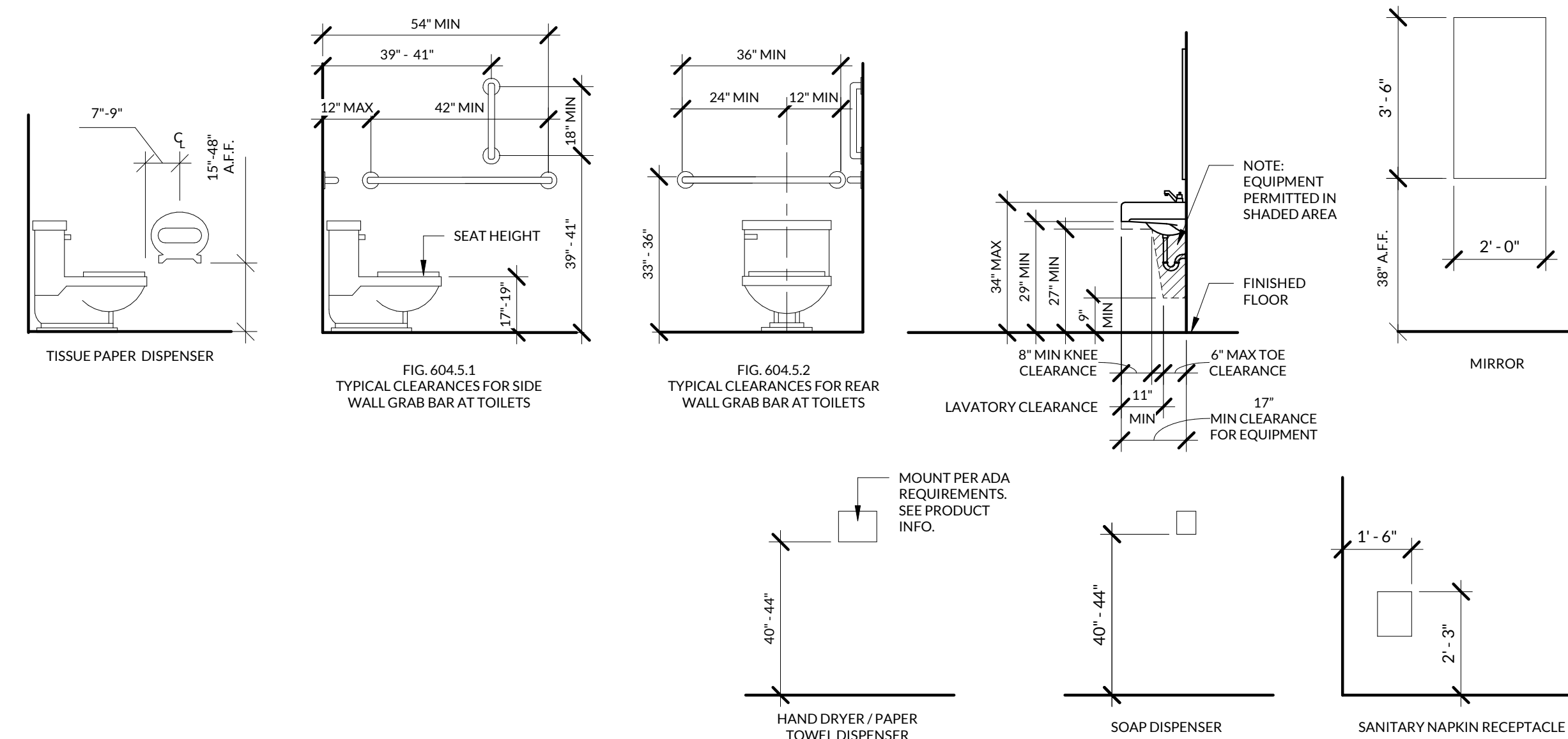
## RESTROOM SCHEDULE

MARK	ITEM	DESCRIPTION	NOTES
A	18" STRAIGHT GRAB BAR	EQ. TO BOBBRICK B-5806x18, VERTICAL	FINISH TO BE STAINLESS STEEL
B	36" STRAIGHT GRAB BAR	EQ. TO BOBBRICK B-5806x36, HORIZONTAL	FINISH TO BE STAINLESS STEEL
C	48" STRAIGHT GRAB BAR	EQ. TO BOBBRICK B-5806x48, HORIZONTAL	FINISH TO BE STAINLESS STEEL
D	TOILET PAPER DISPENSER		FINISH TO BE STAINLESS STEEL
E	MIRROR	EQ. TO BOBBRICK B-165 2436	FINISH TO BE STAINLESS STEEL
F	SOAP DISPENSER		FINISH TO BE STAINLESS STEEL
G	PAPER TOWEL DISPENSER		FINISH TO BE STAINLESS STEEL

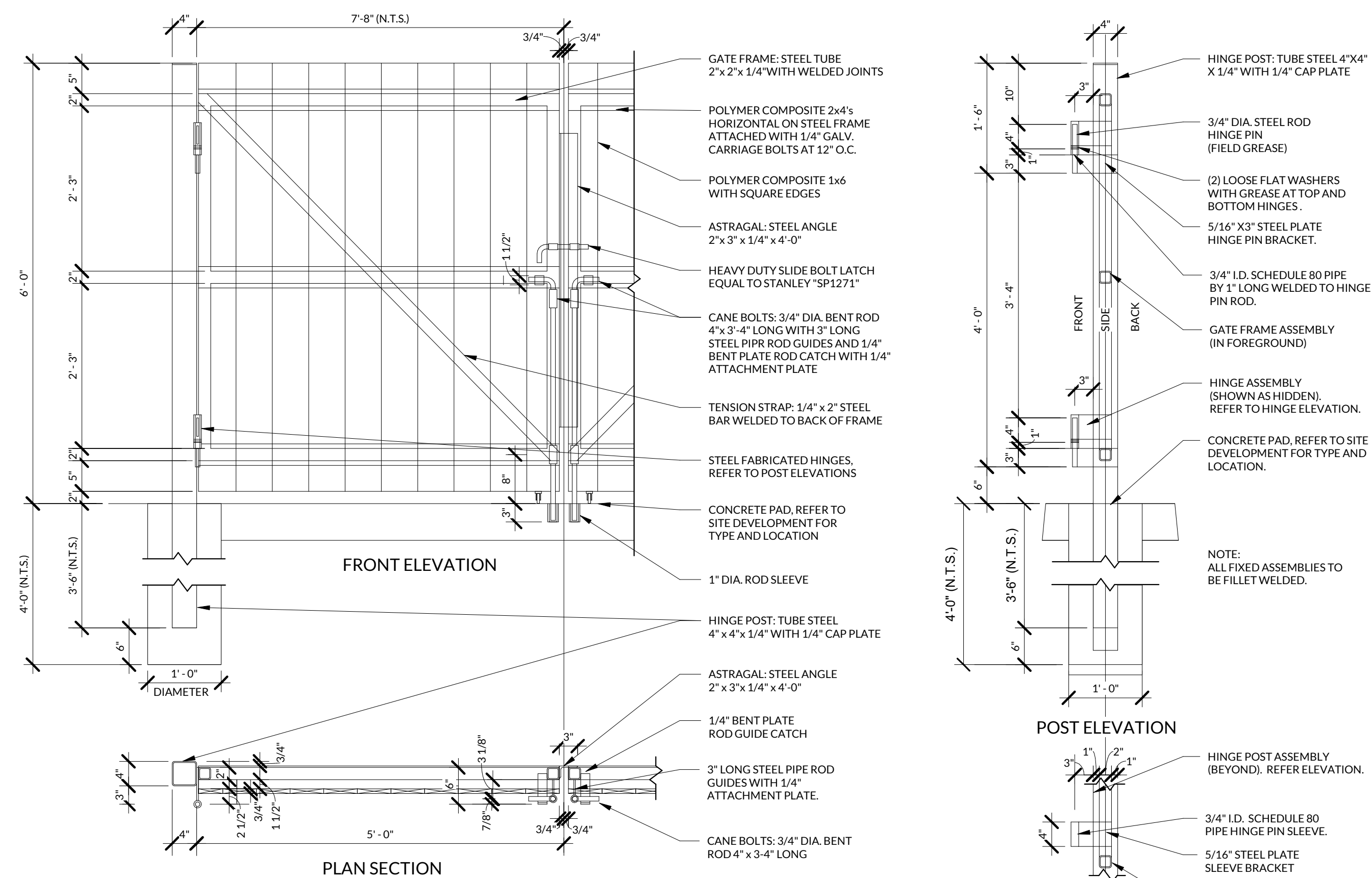
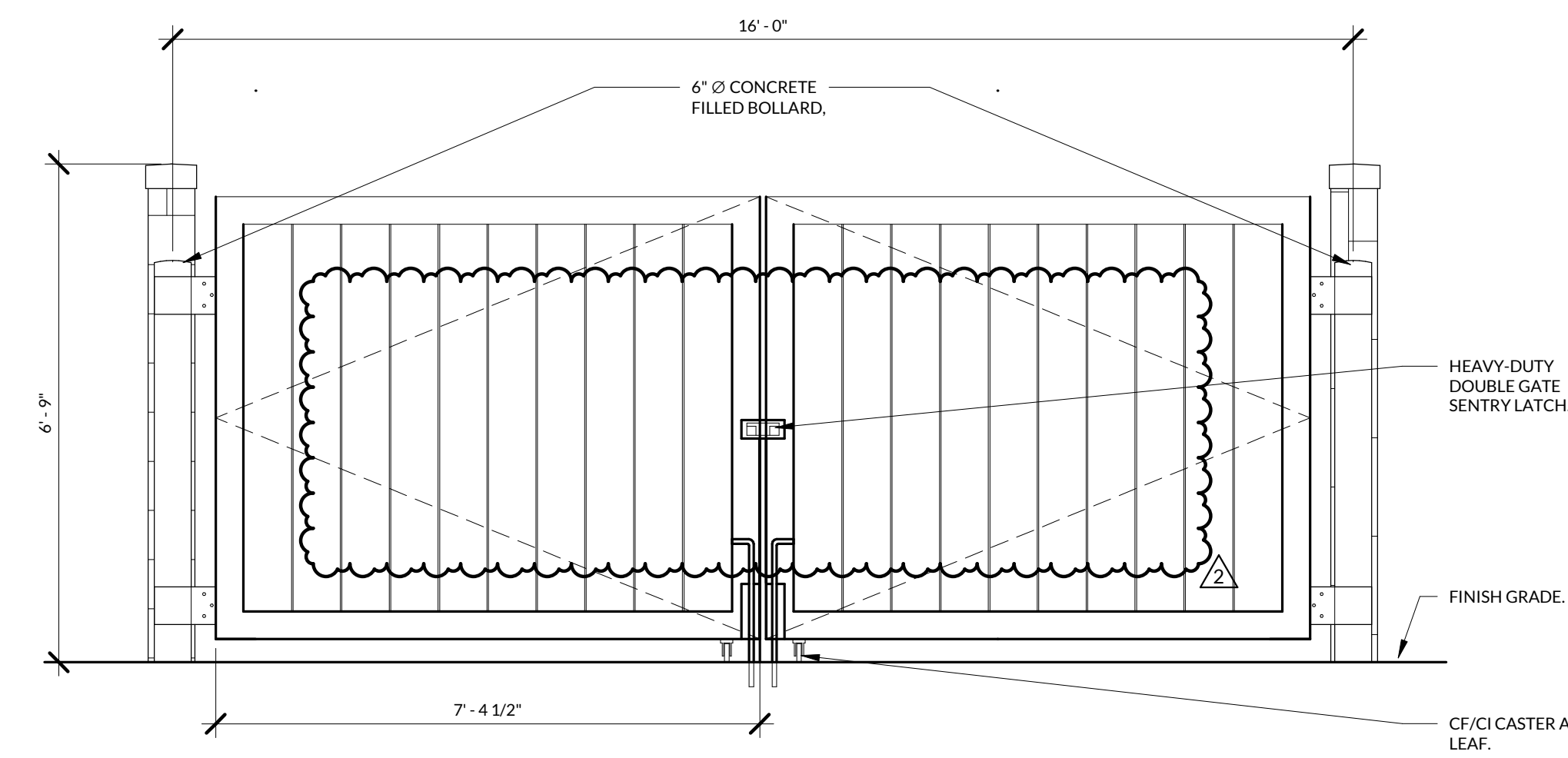
### NOTES:

- A. MOUNTING HEIGHT TO COMPLY WITH ADA REQUIREMENTS. CONTRACTOR IS TO PROVIDE ALL BLOCKING NECESSARY FOR PROPER INSTALLATION. INSTALL PER MANF. RECOMMENDATIONS.
- B. EQUIPMENT SHOWN MAY NOT REFLECT APPEARANCE OF FINAL EQUIPMENT SELECTION.
- C. ALL EQUIPMENT SHALL BE EQUAL TO THAT SPECIFIED CONTRACTOR TO SUBMIT SHOP DRAWINGS/ CUT SHEETS FOR APPROVAL ON FINAL SELECTION.
- D. ALL DIMENSIONS TO BE VERIFIED WITH PRODUCT REQUIREMENTS. INSTALL PER MANF. RECOMMENDATIONS.

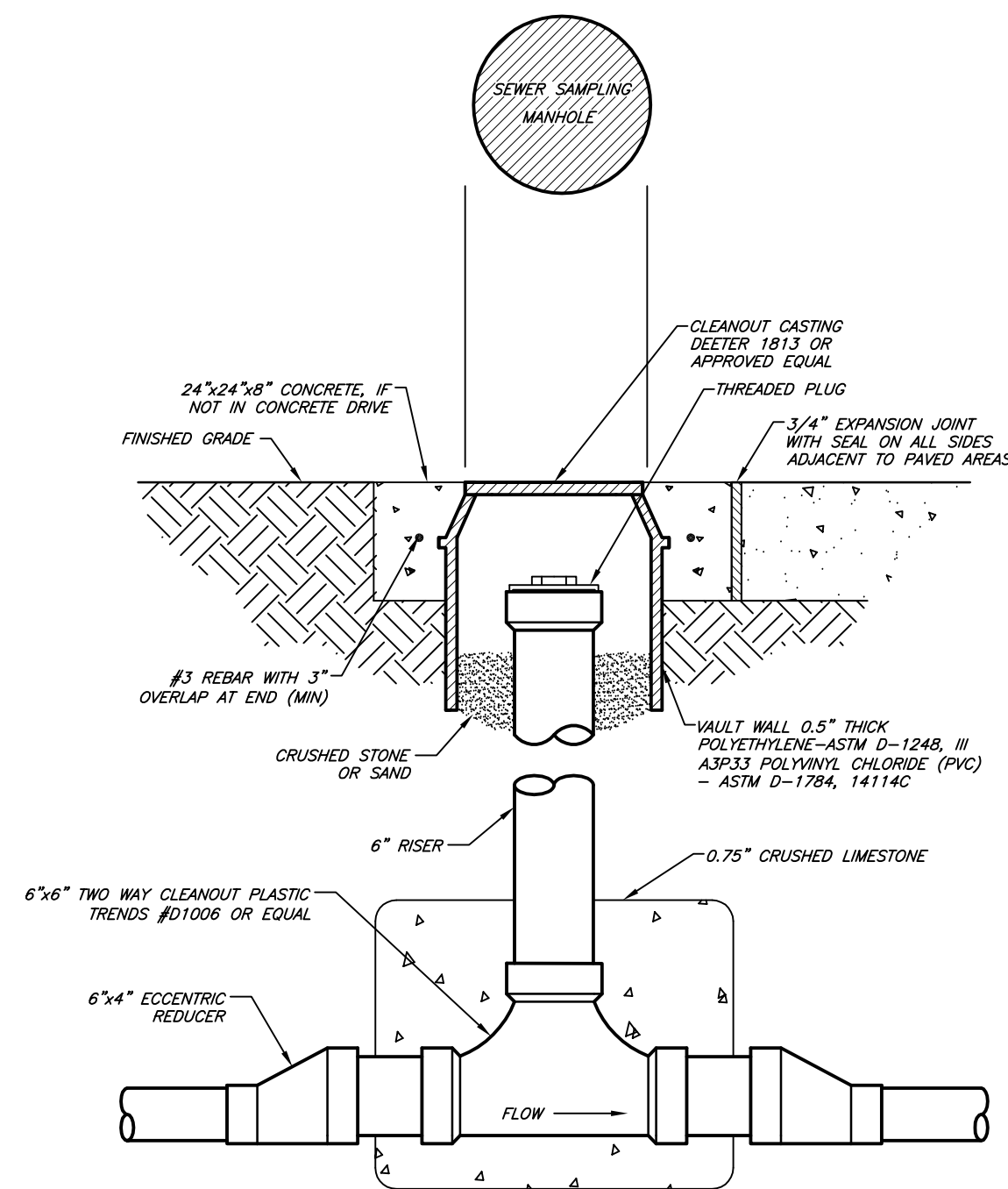
## RESTROOM CLEARANCE AND MOUNTING HEIGHTS



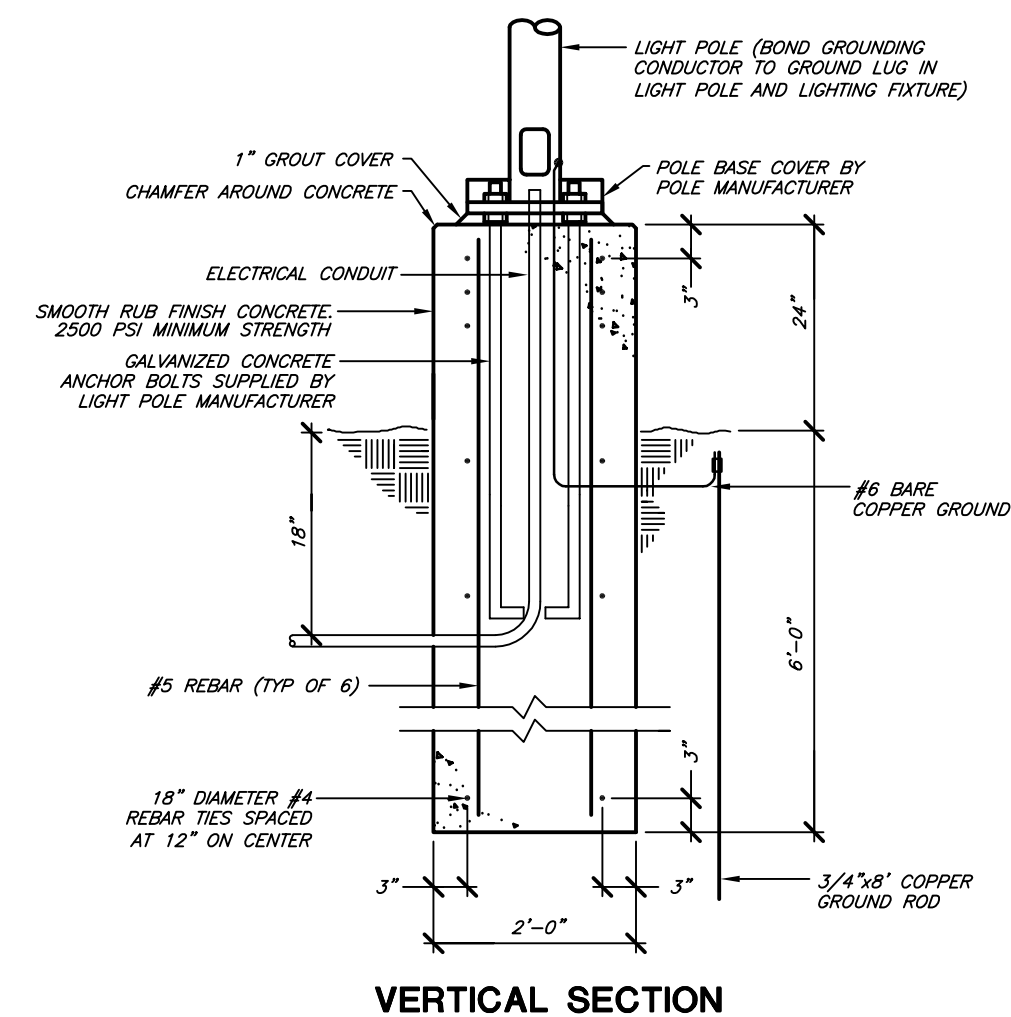




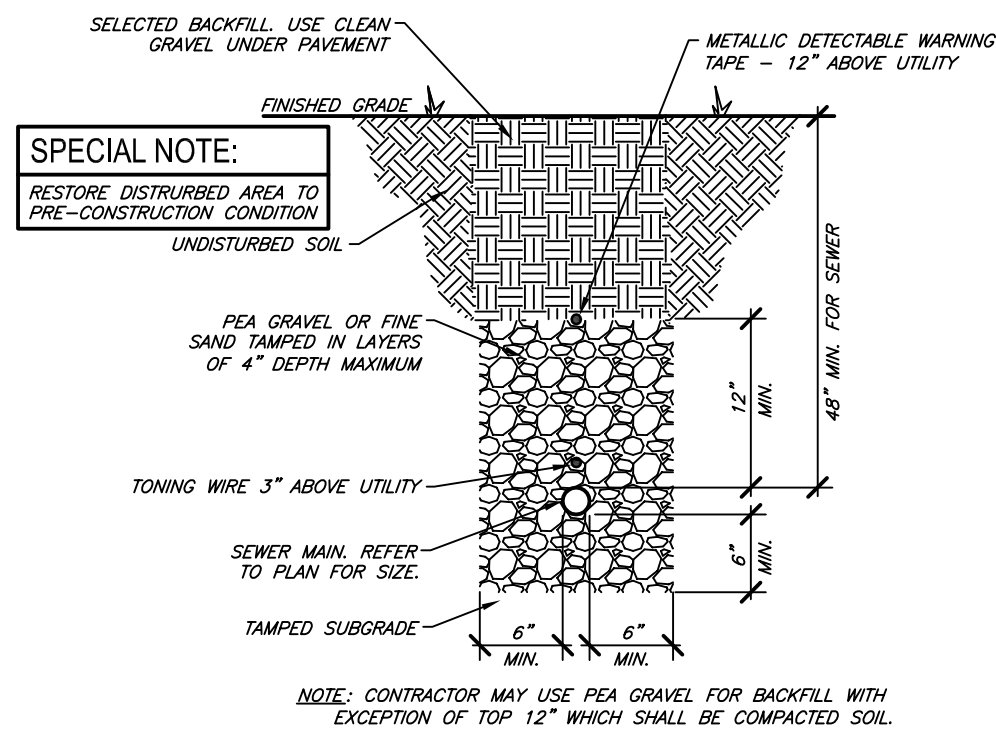




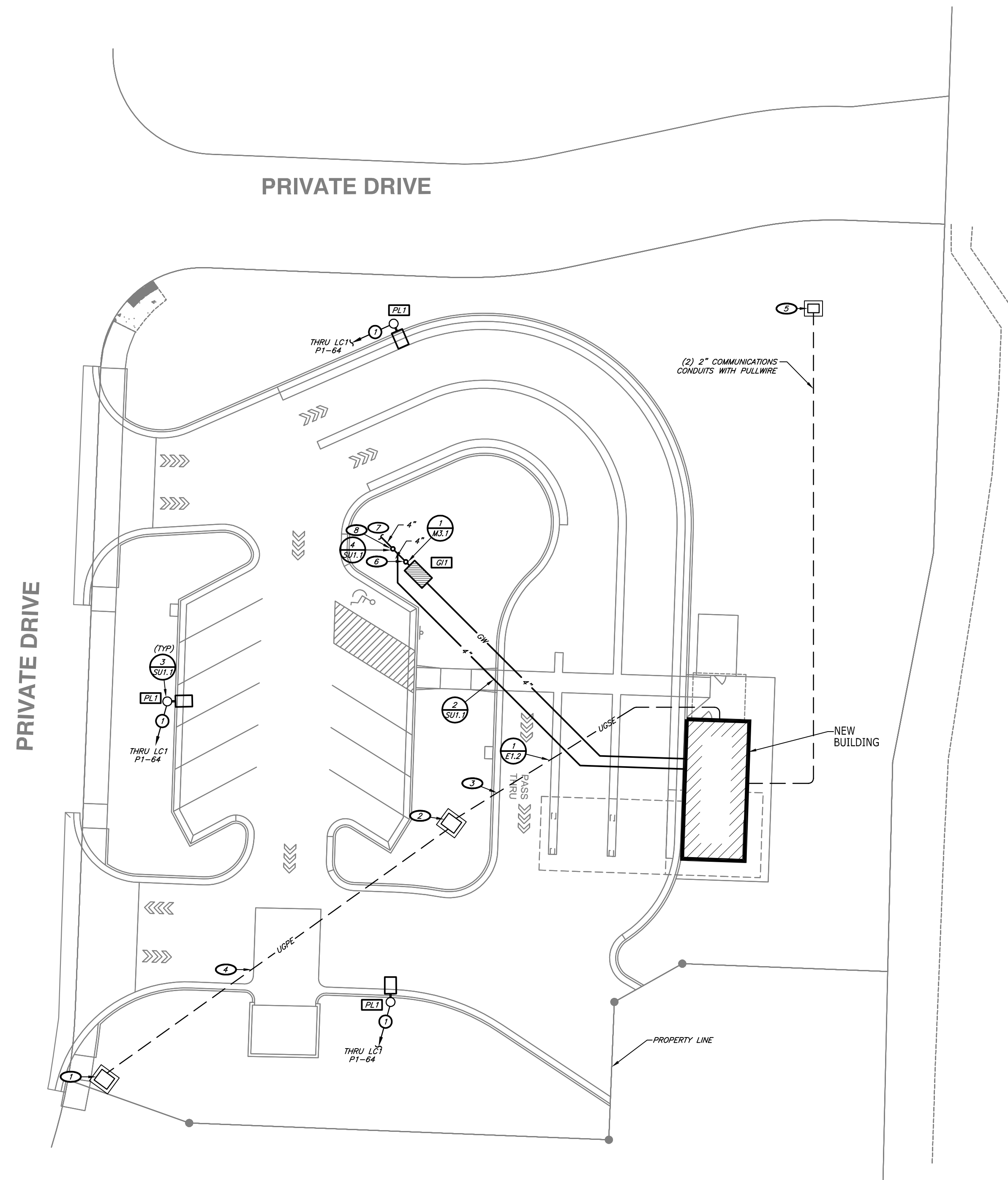
**4 FINISH GRADE SAMPLING MANHOLE DETAIL**  
NO SCALE



**3 LIGHT POLE CONCRETE BASE**  
NO SCALE



**2 SEWER TRENCH DETAIL**  
NO SCALE



**1 SITE PLAN**  
1" = 20'-0"  
NORTH

**KEYNOTES:**

- EXISTING PRIMARY JUNCTION BOX IN THIS AREA. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH UTILITY COMPANY.
- PADMOUNT 120/240-VOLT SINGLE-PHASE TRANSFORMER BY UTILITY COMPANY. CONCRETE PAD BY CONTRACTOR. EXACT LOCATION SHALL BE FIELD DETERMINED/COORDINATED.
- SECONDARY CONDUIT AND CONDUCTORS BY CONTRACTOR. FIELD COORDINATE EXACT ROUTINGS.
- PRIMARY CONDUITS AND CONDUCTORS BY UTILITY COMPANY. VERIFY EXACT ROUTING, TERMINATION LOCATION, AND REQUIREMENTS WITH THE UTILITY COMPANY. COORDINATE WITH UTILITY COMPANY FOR CONDUCTOR/CONDUIT SIZES.
- PROVIDE 18x18 2-BOLT, OPEN BOTTOM, HEAVY DUTY PULL BOX EQUIVALENT TO HUBBELL-QUANTE MODEL DT12123232. "COMMUNICATIONS" SHALL BE INSCRIBED ON THE LID. INSTALL TOP OF BOX FLUSH WITH FINISH GRADE. PROVIDE EXTENSION AS REQUIRED TO MATCH CONDUIT BURIAL DEPTH. VERIFY/COORDINATE EXACT SERVICE LOCATION AND ALL REQUIREMENTS WITH SERVICE PROVIDER(S) PRIOR TO CONDUIT AND COMMUNICATION BOX INSTALLATION.
- 4" WASTE UP TO FINISH GRADE CLEANOUT.
- REFER TO CIVIL PLAN FOR CONTINUATION.
- 4" WASTE UP TO SAMPLING MANHOLE.

**CONDUIT & CONDUCTOR SCHEDULE:**

- ① (2) #10 AND (1) #10 GROUND IN 0.75" CONDUIT.

**GENERAL NOTES:**

- UTILITY ROUTINGS ARE DIAGRAMMATIC. ADJUST EXACT ROUTING TO ACCOMMODATE FIELD CONDITIONS. REFER TO CIVIL AND PUBLIC IMPROVEMENT PLANS FOR NEW SEWER, WATER AND STORMWATER PIPING.
- REFER TO CIVIL AND PUBLIC IMPROVEMENT PLANS FOR LOCATION AND COORDINATION OF ALL EASEMENTS.
- REVIEW ALL CIVIL AND PUBLIC IMPROVEMENT PLANS AND COORDINATE ALL WORK WITH DIFFERENT DISCIPLINES. REVIEW AND OBTAIN APPROVAL FROM CITY UTILITIES AND CITY OF SPRINGFIELD PRIOR TO PERFORMING ANY UTILITY WORK.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS. PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR DIMENSIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING TEMPORARY TELEPHONE, ELECTRICAL AND WATER SERVICES REQUIRED DURING CONSTRUCTION, AND SHALL PAY ALL ASSOCIATED COSTS.
- THE CONTRACTOR SHALL CONTACT EVERGY AT (888) 471-5275 AND ARRANGE FOR ELECTRICAL SERVICES AS INDICATED ON DRAWINGS. THE CONTRACTOR SHALL INCLUDE ALL FEES, CHARGES, ETC. INCURRED BY THE UTILITY COMPANY INTO BID. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AS REQUIRED BY THE LOCAL AUTHORITIES FOR SERVICE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL AUTHORITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH TELECOMMUNICATIONS AND CABLE TELEVISION SERVICE PROVIDERS TO FACILITATE AND SCHEDULE INSTALLATION OF SERVICES. CONTRACTOR SHALL COORDINATE WITH OWNED FOR SERVICE PROVIDER CONTACT. THE OWNER SHALL BE RESPONSIBLE FOR ALL COSTS, CHARGES, FEES, ETC. INCURRED BY SERVICE PROVIDERS. PROVIDE ALL MATERIALS AS REQUIRED BY LOCAL AUTHORITIES FOR SERVICE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL AUTHORITIES.
- ALL SITE ELECTRICAL INSTALLATIONS AND CONSTRUCTION SHALL BE PER THE MOST RECENT REVISIONS OF THE NATIONAL ELECTRIC SAFETY CODE (NEC) AND THE NATIONAL ELECTRIC CODE (NEC) STANDARDS AND SPECIFICATIONS.
- COORDINATE ALL TRANSFORMER LOCATIONS WITH OTHER UTILITIES INDICATED ON CIVIL PLANS.
- REFER TO CIVIL PLANS FOR ALL SITE SANITARY SEWER WORK.

**SITE UTILITIES SYMBOLS:**

- |              |                                |
|--------------|--------------------------------|
| — OHE —      | OVERHEAD ELECTRIC              |
| --- UGPE --- | UNDERGROUND PRIMARY ELECTRIC   |
| --- UGSE --- | UNDERGROUND SECONDARY ELECTRIC |
| --- UGT ---  | UNDERGROUND TELECOMMUNICATIONS |
| --- UGC ---  | UNDERGROUND CABLE TV           |



**CJD LLC**  
Engineering | Energy | Innovation  
2225 West Chesterfield Boulevard, Suite 200, Springfield, MO 65807  
P: 417.877.1700 F: 417.324.7735 www.cjd-eng.com  
Missouri State Certificate of Authority #2005026903

**TORGERSON**  
**DESIGN PARTNERS**  
ARCHITECTURE / INTERIOR DESIGN / LANDSCAPE ARCHITECTURE

7 BREW COFFEE  
LEE'S SUMMIT, MO  
1410 NE DOUGLAS STREET  
LEE'S SUMMIT, MO 64086



ENGINEER OF RECORD:  
NAME: RYAN JONES  
LICENSE NO. PE-2004017193  
PROJECT NUMBER:  
21334 7BSM  
REVISION:

**SU1.1**  
**SITE UTILITIES**  
**PLAN**  
DATE: APRIL 26, 2022



**TUBE ARCHITECTURAL DS-WS05**  
LED Wall Mounts

WAC LIGHTING

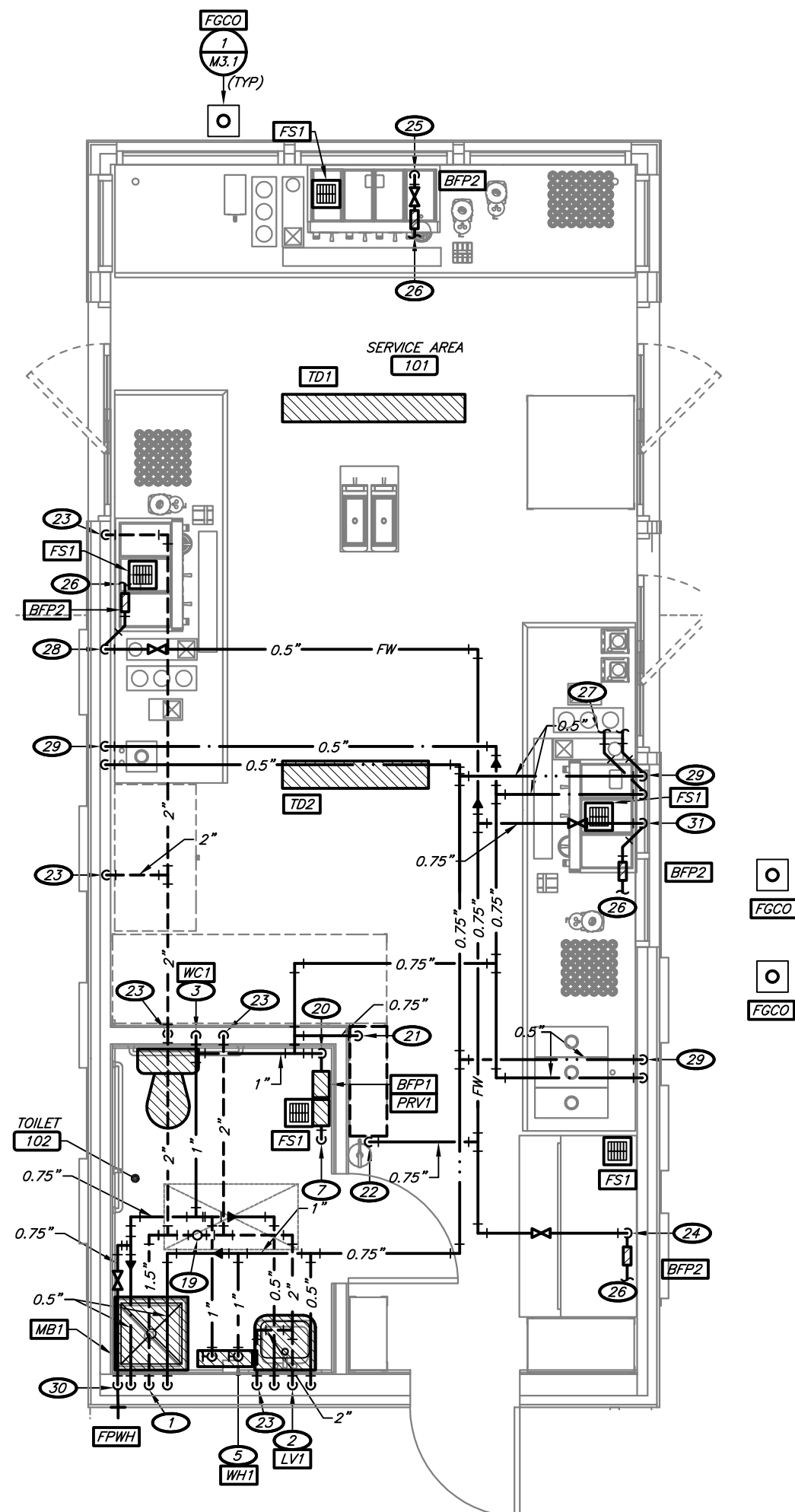
Product Description: The latest energy efficient LED technology in an appealing cylindrical profile delivers accent and wall wash lighting. Comes in various light distribution and beam angle options.

Features: High performance exterior rated LED wall mount light. Fixture can install upside down to alter light distribution. Solid aluminum construction. 5 year warranty.

Specifications: Input: Universal voltage 120V-277VAC, 50/60Hz. Dimming: Electronic low voltage ELM: 100%-5% @ 100-300V, 1%. Light Sources: High output 3 Step Mac Adam Ellipse COB. Finish: Electrostatically powder coated, white, black, bronze and graphite. Standards: IP65 rated, ETL & ETL-vert location listed. Energy Star 2.2 rated. Title 24 (AS 2008) Compliant. Operating Temp: 13°F to 122°F (-20°C to 50°C).

Ordering Number	Beam Angle	Color Temp	Reference Output	Efficiency	Light Distribution	Finish
DS-WS05	30°	2700K	1020	100%	100%	White
DS-WS05	30°	3000K	1020	100%	100%	White
DS-WS05	30°	3500K	1020	100%	100%	White
DS-WS05	30°	4000K	1020	100%	100%	White
DS-WS05	30°	4500K	1020	100%	100%	White
DS-WS05	30°	5000K	1020	100%	100%	White
DS-WS05	30°	5500K	1020	100%	100%	White
DS-WS05	30°	6000K	1020	100%	100%	White
DS-WS05	30°	6500K	1020	100%	100%	White
DS-WS05	30°	7000K	1020	100%	100%	White
DS-WS05	30°	7500K	1020	100%	100%	White
DS-WS05	30°	8000K	1020	100%	100%	White
DS-WS05	30°	8500K	1020	100%	100%	White
DS-WS05	30°	9000K	1020	100%	100%	White
DS-WS05	30°	9500K	1020	100%	100%	White
DS-WS05	30°	10000K	1020	100%	100%	White
DS-WS05	30°	10500K	1020	100%	100%	White
DS-WS05	30°	11000K	1020	100%	100%	White
DS-WS05	30°	11500K	1020	100%	100%	White
DS-WS05	30°	12000K	1020	100%	100%	White
DS-WS05	30°	12500K	1020	100%	100%	White
DS-WS05	30°	13000K	1020	100%	100%	White
DS-WS05	30°	13500K	1020	100%	100%	White
DS-WS05	30°	14000K	1020	100%	100%	White
DS-WS05	30°	14500K	1020	100%	100%	White
DS-WS05	30°	15000K	1020	100%	100%	White
DS-WS05	30°	15500K	1020	100%	100%	White
DS-WS05	30°	16000K	1020	100%	100%	White
DS-WS05	30°	16500K	1020	100%	100%	White
DS-WS05	30°	17000K	1020	100%	100%	White
DS-WS05	30°	17500K	1020	100%	100%	White
DS-WS05	30°	18000K	1020	100%	100%	White
DS-WS05	30°	18500K	1020	100%	100%	White
DS-WS05	30°	19000K	1020	100%	100%	White
DS-WS05	30°	19500K	1020	100%	100%	White
DS-WS05	30°	20000K	1020	100%	100%	White
DS-WS05	30°	20500K	1020	100%	100%	White
DS-WS05	30°	21000K	1020	100%	100%	White
DS-WS05	30°	21500K	1020	100%	100%	White
DS-WS05	30°	22000K	1020	100%	100%	White
DS-WS05	30°	22500K	1020	100%	100%	White
DS-WS05	30°	23000K	1020	100%	100%	White
DS-WS05	30°	23500K	1020	100%	100%	White
DS-WS05	30°	24000K	1020	100%	100%	White
DS-WS05	30°	24500K	1020	100%	100%	White
DS-WS05	30°	25000K	1020	100%	100%	White
DS-WS05	30°	25500K	1020	100%	100%	White
DS-WS05	30°	26000K	1020	100%	100%	White
DS-WS05	30°	26500K	1020	100%	100%	White
DS-WS05	30°	27000K	1020	100%	100%	White
DS-WS05	30°	27500K	1020	100%	100%	White
DS-WS05	30°	28000K	1020	100%	100%	White
DS-WS05	30°	28500K	1020	100%	100%	White
DS-WS05	30°	29000K	1020	100%	100%	White
DS-WS05	30°	29500K	1020	100%	100%	White
DS-WS05	30°	30000K	1020	100%	100%	White
DS-WS05	30°	30500K	1020	100%	100%	White
DS-WS05	30°	31000K	1020	100%	100%	White
DS-WS05	30°	31500K	1020	100%	100%	White
DS-WS05	30°	32000K	1020	100%	100%	White
DS-WS05	30°	32500K	1020	100%	100%	White
DS-WS05	30°	33000K	1020	100%	100%	White
DS-WS05	30°	33500K	1020	100%	100%	White
DS-WS05	30°	34000K	1020	100%	100%	White
DS-WS05	30°	34500K	1020	100%	100%	White
DS-WS05	30°	35000K	1020	100%	100%	White
DS-WS05	30°	35500K	1020	100%	100%	White
DS-WS05	30°	36000K	1020	100%	100%	White
DS-WS05	30°	36500K	1020	100%	100%	White
DS-WS05	30°	37000K	1020	100%	100%	White
DS-WS05	30°	37500K	1020	100%	100%	White
DS-WS05	30°	38000K	1020	100%	100%	White
DS-WS05	30°	38500K	1020	100%	100%	White
DS-WS05	30°	39000K	1020	100%	100%	White
DS-WS05	30°	39500K	1020	100%	100%	White
DS-WS05	30°	40000K	1020	100%	100%	White
DS-WS05	30°	40500K	1020	100%	100%	White
DS-WS05	30°	41000K	1020	100%	100%	White
DS-WS05	30°	41500K	1020	100%	100%	White
DS-WS05	30°	42000K	1020	100%	100%	White
DS-WS05	30°	42500K	1020	100%	100%	White
DS-WS05	30°	43000K	1020	100%	100%	White
DS-WS05	30°	43500K	1020	100%	100%	White
DS-WS05	30°	44000K	1020	100%	100%	White
DS-WS05	30°	44500K	1020	100%	100%	White
DS-WS05	30°	45000K	1020	100%	100%	White
DS-WS05	30°	45500K	1020	100%	100%	White
DS-WS05	30°	46000K	1020	100%	100%	White
DS-WS05	30°	46500K	1020	100%	100%	White
DS-WS05	30°	47000K	1020	100%	100%	White
DS-WS05	30°	47500K	1020	100%	100%	White
DS-WS05	30°	48000K	1020	100%	100%	White
DS-WS05	30°	48500K	1020	100%	100%	White
DS-WS05	30°	49000K	1020	100%	100%	White
DS-WS05	30°	49500K	1020	100%	100%	White
DS-WS05	30°	50000K	1020	100%	100%	White
DS-WS05	30°	50500K	1020	100%	100%	White
DS-WS05	30°	51000K	1020	100%	100%	White
DS-WS05	30°	51500K	1020	100%	100%	White
DS-WS05	30°	52000K	1020	100%	100%	White
DS-WS05	30°	52500K	1020	100%	100%	White
DS-WS05	30°	53000K	1020	100%	100%	White
DS-WS05	30°	53500K	1020	100%	100%	White
DS-WS05	30°	54000K	1020	100%	100%	White
DS-WS05	30°	54500K	1020	100%	100%	White
DS-WS05	30°	55000K	1020	100%	100%	White
DS-WS05	30°	55500K	1020	100%	100%	White
DS-WS05	30°	56000K	1020	100%	100%	White
DS-WS05	30°	56500K	1020	100%	100%	White
DS-WS05	30°	57000K	1020	100%	100%	White
DS-WS05	30°	57500K	1020	100%	100%	White
DS-WS05	30°	58000K	1020	100%	100%	White
DS-WS05	30°	58500K	1020	100%	100%	White
DS-WS05	30°	59000K	1020	100%	100%	White
DS-WS05	30°	59500K	1020	100%	100%	White
DS-WS05	30°	60000K	1020	100%	100%	White
DS-WS05	30°	60500K	1020	100%	100%	White
DS-WS05	30°	61000K	1020	100%	100%	White
DS-WS05	30°	61500K	1020	100%	100%	White
DS-WS05	30°	62000K	1020	100%	100%	White
DS-WS05	30°	62500K	1020	100%	100%	White
DS-WS05	30°	63000K	1020	100%	100%	White
DS-WS05	30°	63500K	1020	100%	100%	White
DS-WS05	30°	64000K	1020	100%	100%	White
DS-WS05	30°	64500K	1020	100%	100%	White
DS-WS05	30°	65000K	1020	100%	100%	White
DS-WS05	30°	65500K	1020	100%	100%	White
DS-WS05	30°	66000K	1020	100%	100%	White
DS-WS05	30°	66500K	1020	100%	100%	White
DS-WS05	30°	67000K	1020	100%	100%	White
DS-WS05	30°	67500K	1020	100%	100%	White
DS-WS05	30°	68000K	1020	100%	100%	White
DS-WS05	30°	68500K	1020	100%	100%	White
DS-WS05	30°	69000K	1020	100%	100%	White
DS-WS05	30°	69500K	1020	100%	100%	White
DS-WS05	30°	70000K	1020	100%	100%	White
DS-WS05	30°	70500K	1020	100%	100%	White
DS-WS05	30°	71000K	1020	100%	100%	White
DS-WS05	30°	71500K	1020	100%	100%	White
DS-WS05	30°	72000K	1020	100%	100%	White
DS-WS05	30°	72500K	1020	100%	100%	White
DS-WS05	30°	73000K	1020	100%	100%	White
DS-WS05	30°	73500K	1020	100%	100%	White
DS-WS05	30°	74000K	1020	100%	100%	White
DS-WS05	30°	74500K	1020	100%	100%	White
DS-WS05	30°	75000K	1020	100%	100%	White
DS-WS05	30°	75500K	1020	100%	100%	White
DS-WS05	30°	76000K	1020	100%	100%	White
DS-WS05	30°	76500K	1020	100%	100%	White
DS-WS05	30°	77000K	1020	100%	100%	White
DS-WS05	30°	77500K	1020	100%	100%	White
DS-WS05	30°	78000K	1020	100%	100%	White
DS-WS05	30°	78500K	1020	100%	100%	White
DS-WS05	30°	79000K	1020	100%	100%	White
DS-WS05	30°	79500K	1020	100%	100%	White
DS-WS05	30°	80000K	1020	100%	100%	White
DS-WS05	30°	80500K	1020	100%	100%	White
DS-WS05	30°	81000K	1020	100%	100%	White
DS-WS05	30°	81500K	1020	100%	100%	White
DS-WS05	30°	82000K	1020	100%	100%	White
DS-WS05	30°	82500K	1020	100%	100%	White
DS-WS05	30°	83000K	1020	100%	100%	White
DS-WS05	30°	83500K	1020	100%	100%	White
DS-WS05	30°	84000K	1020	100%	100%	White
DS-WS05	30°	84500K	1020	100%	100%	White
DS-WS05	30°	85000K	1020	100%	100%	White
DS-WS05	30°	85500K	1020	100%	100%	White
DS-WS05	30°	86000K	1020	100%	100%	White
DS-WS05	30°	86500K	1020	100%	100%	White
DS-WS05	30°	87000K	1020	100%	100%	White
DS-WS05	30°	87500K	1020	100%	100%	White
DS-WS05	30°	88000K	1020	100%	100%	White
DS-WS05	30°	88500K	1020	100%	100%	White
DS-WS05	30°	89000K	1020	100%	100%	White
DS-WS05	30°	89500K	1020	100%	100%	White
DS-WS05	30°	90000K	1020	100%	100%	White
DS-WS05	30°	90500K	1020	100%	100%	White
DS-WS05	30°	91000K	1020	100%	100%	White
DS-WS05	30°	91500K	1020	100%	100%	White
DS-WS05	30°					

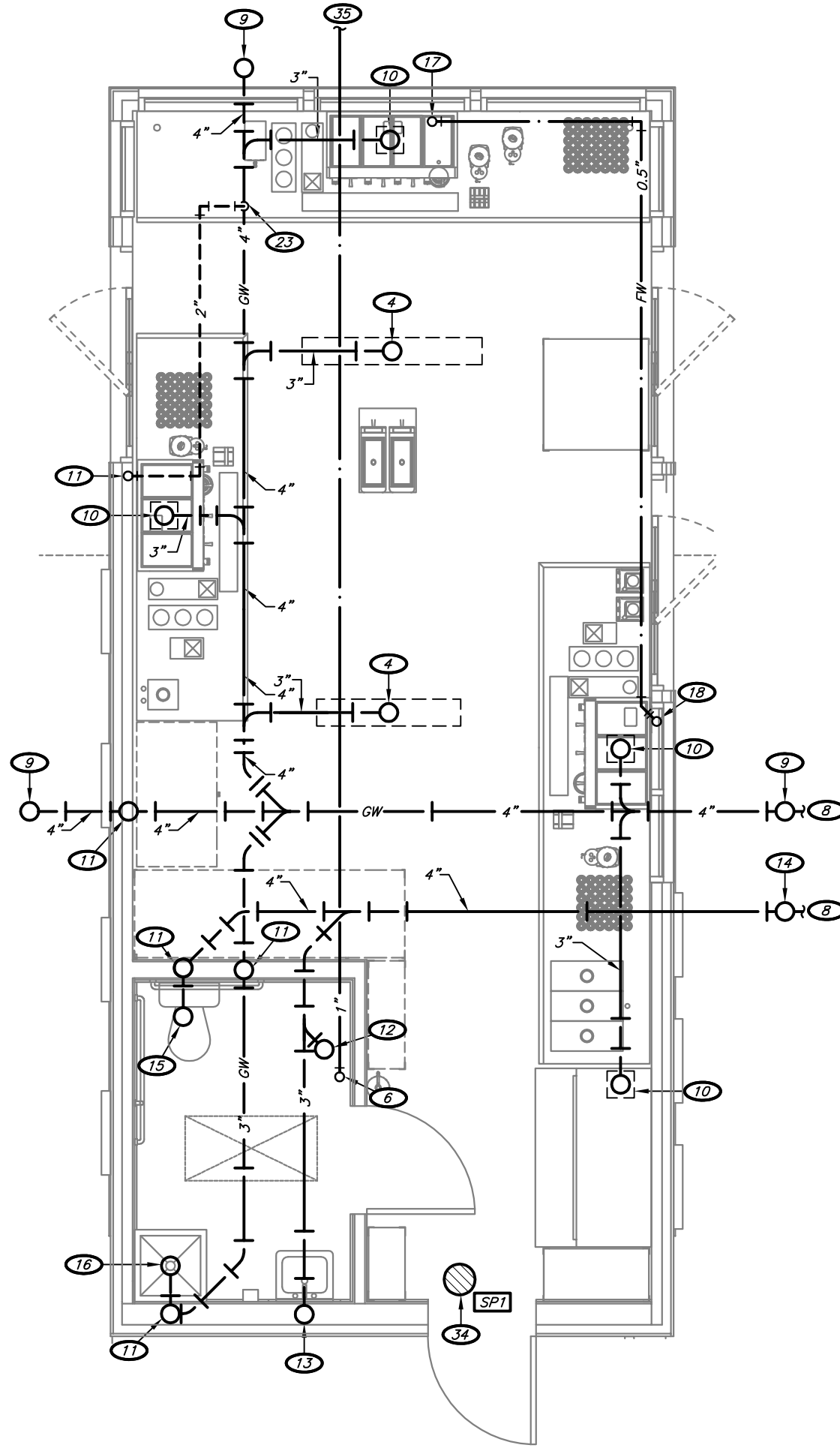




2 GROUND LEVEL PLUMBING PLAN  
1/4" = 1'-0"



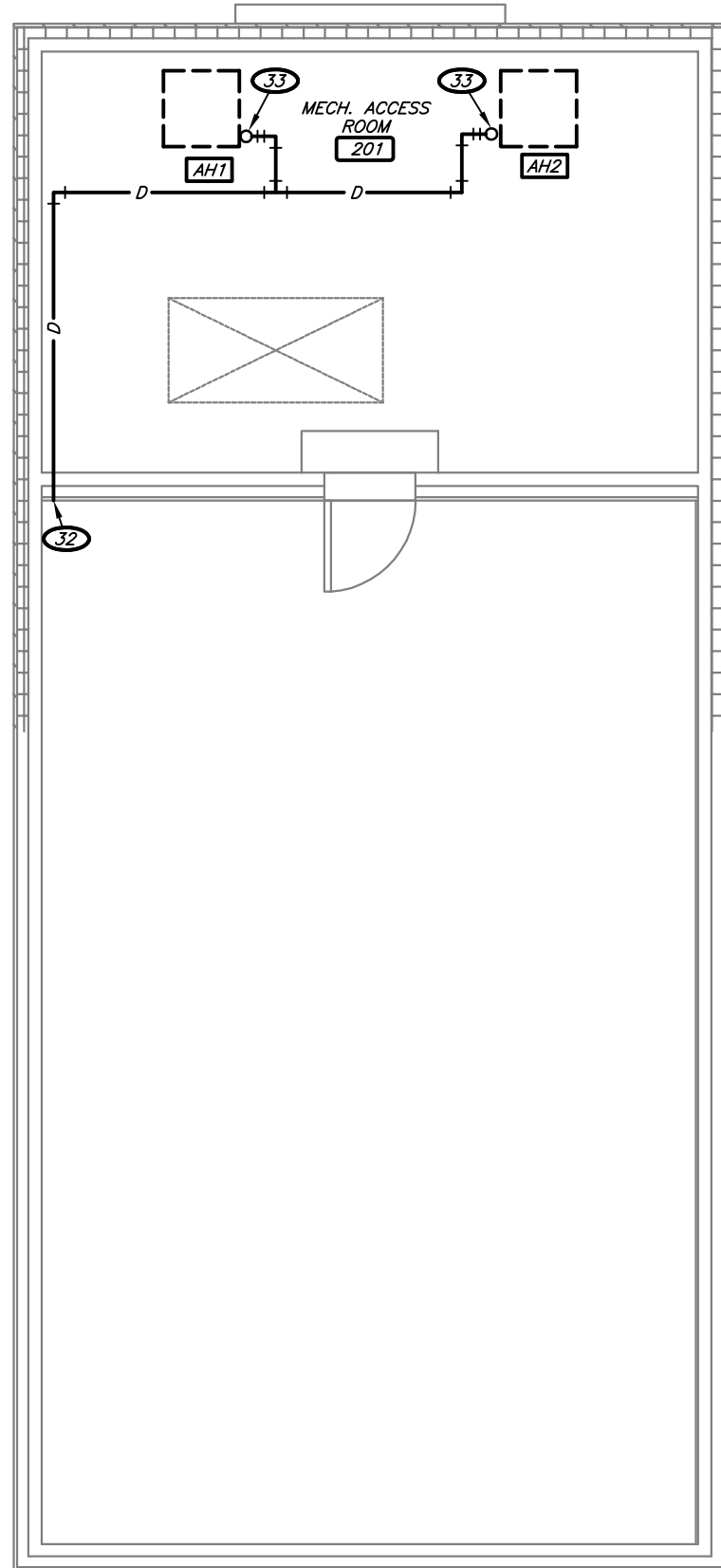
GREASE INTERCEPTOR CALCULATION  
VOLUME OF 3-COMPARTMENT SINK: 7800 CUBIC IN.  
VOLUME OF MOP BASIN: 3760 CUBIC IN.  
VOLUME OF RINSER SINK: 770 CUBIC IN.  
VOLUME OF RINSER SINK: 1000 CUBIC IN.  
VOLUME OF RINSER SINK: 770 CUBIC IN.  
TOTAL: 16100 CUBIC IN.  
— CONVERSIONS TO GALLONS: 70 GALLONS  
GREASE INTERCEPTOR IS SIZED FOR 75-GPM.



1 UNDERSLAB PLUMBING PLAN  
1/4" = 1'-0"



3 ROOF AND ATTIC PLUMBING PLAN  
1/4" = 1'-0"



## KEYNOTES:

- 1.5" VENT, 0.5" HOT AND COLD WATER DOWN TO MOP BASIN.
- 1.5" VENT, 0.5" HOT AND COLD WATER DOWN TO LAVATORY.
- 0.5" COLD WATER DOWN TO WATER CLOSET.
- 3" TRAPPED GREASE WASTE UP TO TRENCH DRAIN.
- 1" HOT AND COLD WATER DOWN TO TANKLESS WATER HEATER.
- 1" WATER SERVICE UP. REFER TO 2/M1.1 FOR CONTINUATION.
- 1" WATER SERVICE DOWN. REFER TO 1/M1.1 FOR CONTINUATION.
- REFER TO SU1.1 DRAWINGS FOR CONTINUATION.
- 4" GREASE WASTE UP TO FINISH GRADE CLEANOUT.
- 3" TRAPPED GREASE WASTE UP TO FLOOR SINK.
- 2" VENT UP.
- 3" TRAPPED WASTE UP TO FLOOR SINK.
- 2" WASTE UP TO LAVATORY.
- 4" WASTE UP TO FINISH GRADE CLEANOUT.
- 4" WASTE UP TO WATER CLOSET.
- 3" TRAPPED GREASE WASTE UP TO MOP BASIN.
- 0.5" FILTERED WATER UP TO BEVERAGE EQUIPMENT.
- 0.5" FILTERED WATER UP.
- 2" VENT UP TO 3" VENT THROUGH ROOF.
- 1" COLD WATER DOWN TO BACKFLOW PREVENTER AND PRESSURE REDUCING VALVE.
- 0.75" COLD WATER DOWN TO WATER FILTER. COORDINATE CONNECTION REQUIREMENTS WITH EQUIPMENT PROVIDER.
- 0.75" FILTERED WATER DOWN TO WATER FILTER. COORDINATE CONNECTION REQUIREMENTS WITH EQUIPMENT PROVIDER.
- 2" VENT DOWN.
- PROVIDE 0.5" FILTERED WATER WITH SHUT-OFF VALVE TO ICE MAKER WITH BACKFLOW PREVENTER. PROVIDE 0.75" INDIRECT DRAIN FROM ICE-MAKER TO FLOOR SINK AS REQUIRED.
- 0.5" FILTERED WATER DOWN.
- CONNECT FILTERED WATER PIPING TO KITCHEN EQUIPMENT. PROVIDE BACKFLOW PREVENTER AS REQUIRED.
- 0.5" HOT AND COLD WATER ROUTED IN OWNER PROVIDED COUNTER TO SINK.
- PROVIDE 0.5" FILTERED WATER WITH SHUT-OFF VALVE TO ESPRESSO MAKER WITH BACKFLOW PREVENTER.
- 0.5" HOT AND COLD WATER DOWN TO SINK. TERMINATE WASTE PIPING AT ADJACENT FLOOR SINK.
- 0.75" COLD WATER DOWN TO FREEZE-PROOF WALL HYDRANT.
- 0.75" COLD WATER DOWN. TEE OFF 0.5" FILTERED WATER WITH SHUT-OFF VALVE TO ESPRESSO MAKER WITH BACKFLOW PREVENTER. CONTINUE 0.5" FILTERED WATER UNDERSLAB. REFER TO 1/M1.1 FOR CONTINUATION. SHOWN OFF-SET FOR CLARITY.
- CONDENSATE SHALL PENETRATE THROUGH WALL AND DISCHARGE ONTO ROOF SURFACE.
- CONDENSATE UP TO AIR HANDLER.
- COORDINATE SUMP PUMP LOCATION WITH OWNER.
- REFER TO CIVIL DRAWINGS FOR CONTINUATION.

## PLUMBING SYMBOLS:

- |                 |  |
|-----------------|--|
| — GW —          | GREASE WASTE PIPING BELOW SLAB                         |
| - - - GW - - -  | GREASE COMBINATION WASTE AND VENT PIPING               |
| — GW —          | GREASE WASTE PIPING ABOVE SLAB                         |
| - - - GW - - -  | GREASE COMBINATION WASTE AND VENTING PIPING ABOVE SLAB |
| — RD —          | ROOF DRAIN PIPING ABOVE SLAB                           |
| — ORD —         | OVERFLOW ROOF DRAIN PIPING ABOVE SLAB                  |
| — SNT —         | SANITARY WASTE PIPING BELOW SLAB                       |
| - - - SNT - - - | SANITARY COMBINATION WASTE AND VENT PIPING             |
| — SNT —         | SANITARY WASTE PIPING ABOVE SLAB                       |
| - - - SNT - - - | SANITARY COMBINATION WASTE AND VENT PIPING ABOVE SLAB  |
| — D —           | DOMESTIC COLD WATER PIPING                             |
| — HW —          | DOMESTIC FILTERED COLD WATER PIPING                    |
| — H —           | DOMESTIC HOT WATER PIPING                              |
| — V —           | PLUMBING VENT PIPING                                   |
| — D —           | CONDENSATE DRAIN PIPING                                |
| — S —           | SHUT-OFF VALVE   |
| — U —           | UNION  |
| — T —           | TEE / ELBOW DOWN WITH VALVE IN VERTICAL PIPE           |
| — F —           | FREEZEPROOF WALL HYDRANT / HOSE BIBB                   |
| — B —           | BACKFLOW PREVENTER                                     |
| — F —           | FLOOR DRAIN / FLOOR SINK                               |
| — C —           | FINISH GRADE CLEANOUT                                  |
| — F —           | FINISH FLOOR CLEANOUT                                  |

**CJD LLC**  
Engineering | Energy | Innovation  
2225 West Chesterfield Boulevard, Suite 200, Springfield, MO 65807  
P: 417.877.1700 P: 417.324.7735 www.cjd-eng.com  
Missouri State Certificate of Authority #2005026903

Special Notice: Drawings prepared by CJD LLC are instruments of service for use solely with respect to this project. CJD LLC retains ownership and all common law, statutory and other reserved rights including copyrights. This drawing shall not be re-used in part or in full for any other work without prior written consent by and appropriate compensation to CJD LLC. Whenever changes to the design without prior written approval from CJD LLC, those in all their own and assumed full responsibility for any damages, liabilities or costs resulting directly or indirectly from such changes to the fullest extent of the law.

**TORGERSON**  
**DESIGN PARTNERS**  
ARCHITECTURE / INTERIOR DESIGN / DEVELOPMENT

116 NORTH 2ND AVENUE - OZARK, MO 65721 - P (417) 581-8888  
F (417) 581-9002  
ARCHITECTURAL CORPORATION MISSOURI LICENSE NUMBER: A-2010011427

7 BREW COFFEE  
LEE'S SUMMIT, MO

1410 NE DOUGLAS STREET  
LEE'S SUMMIT, MO 64086



ENGINEER OF RECORD:  
NAME: RYAN JONES  
LICENSE NO. PE-2004017193  
PROJECT NUMBER:  
21334 7BSM  
REVISION:

M1.1  
PLUMBING PLAN

DATE: APRIL 26, 2022



1410 NE DOUGLAS STREET  
LEE'S SUMMIT, MO 64086

7 BREW COFFEE  
LEE'S SUMMIT, MO



04-26-22

ENGINEER OF RECORD:

NAME: RYAN JONES

LICENSE NO. PE-2004017193

PROJECT NUMBER:  
21334 7BSM

REVISION:

M2.1  
HVAC PLAN

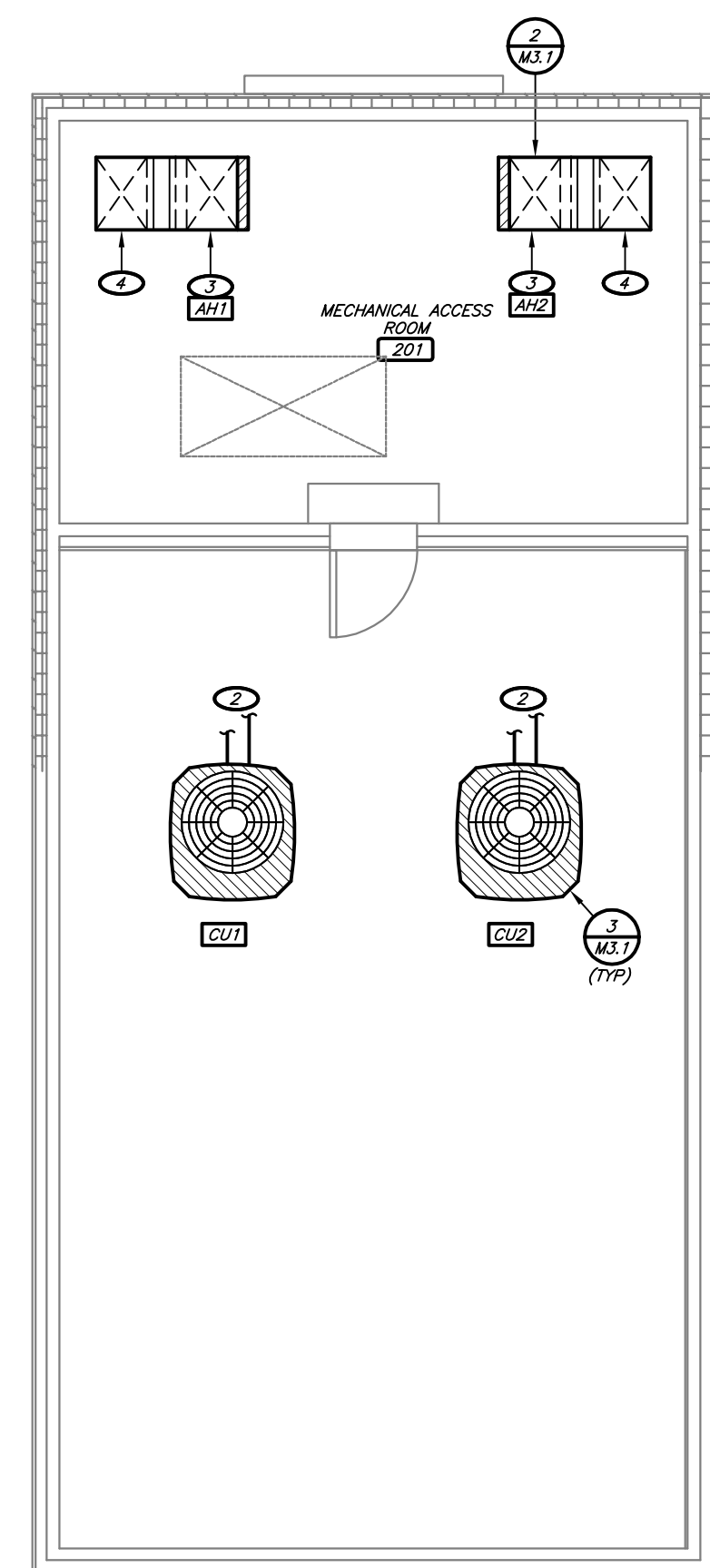
DATE: APRIL 26, 2022

### KEYNOTES:

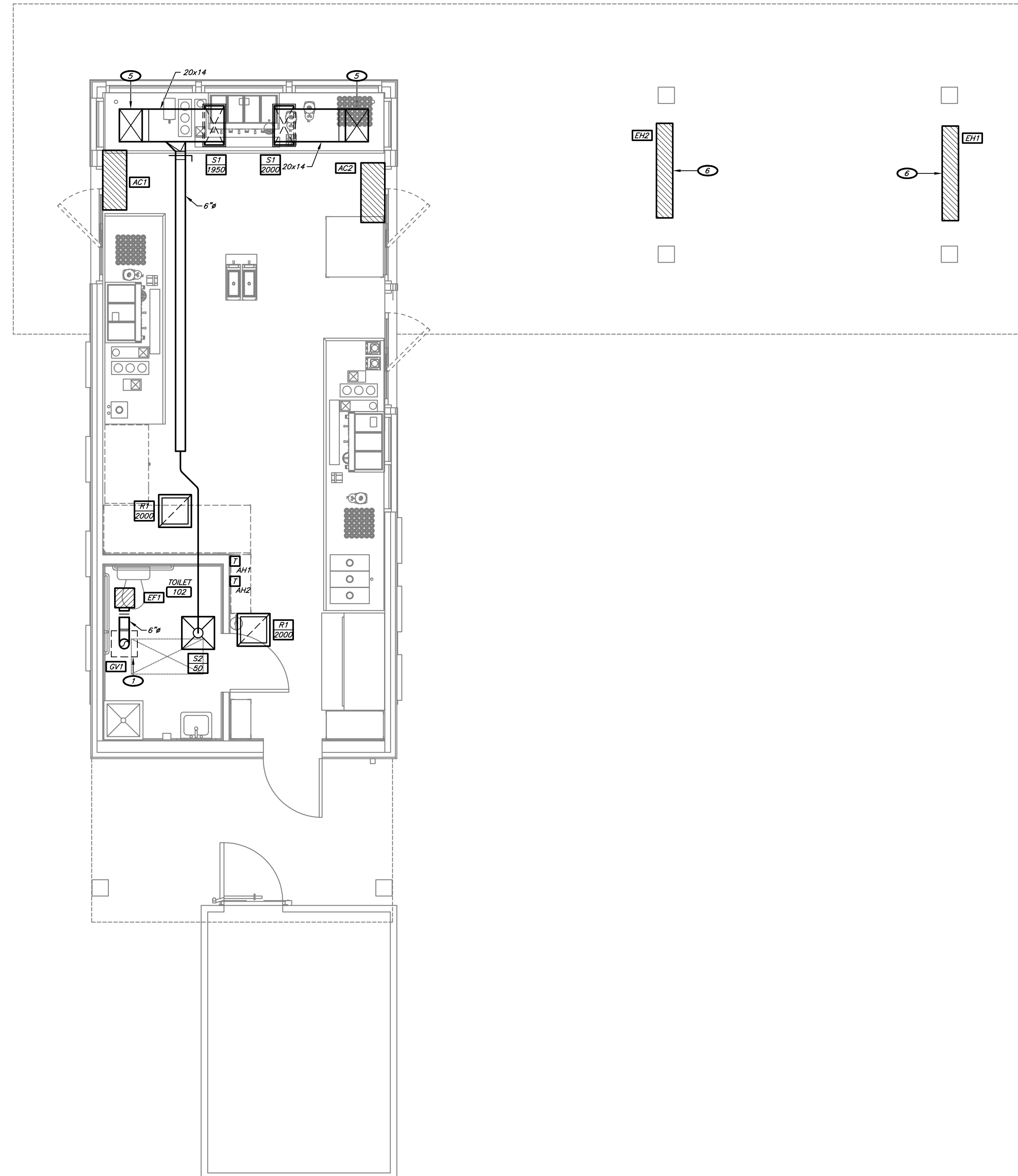
- 6" EXHAUST DUCT UP TO GRAVITY VENTILATOR (WITH 8" CURB).
- PROVIDE REFRIGERANT LINE ASSOCIATED AIR HANDLER. SIZE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- 20x14 SUPPLY DOWN TO AIR HANDLER TRANSITION AS REQUIRED AND PROVIDE FLEXIBLE CONNECTION. 20x16 RETURN DUCT UP TO BOTTOM OF AIR HANDLER FROM BELOW TRANSITION TO UNIT AS REQUIRED.
- 20x14 SUPPLY DOWN. REFER TO 1/M2.1 FOR CONTINUATION.
- 20x14 SUPPLY UP. REFER TO 2/M2.1 FOR CONTINUATION.
- ELECTRIC HEATER. COORDINATE MOUNTING HEIGHT WITH OWNER.

### HVAC SYMBOLS:

- FLEXIBLE DUCTWORK
- CEILING RETURN/EXHAUST GRILLE
- CEILING SUPPLY DIFFUSER
- TEMPERATURE SENSOR
- DUCTWORK (WIDTH/HEIGHT) WITH DAMPER
- FLEXIBLE CONNECTION
- DIFFUSER TYPE AND CFM
- RECTANGULAR TO ROUND TAKE-OFF



2 PARTIAL ROOF AND  
ATTIC HVAC PLAN  
1/4" = 1'-0"  
NORTH



1 GROUND LEVEL HVAC PLAN  
1/4" = 1'-0"  
NORTH

**CJD LLC**  
Engineering | Energy | Innovation  
2225 West Chesterfield Boulevard, Suite 200, Springfield, MO 65807  
P: 417.877.1700 F: 417.324.7735 www.cjd-eng.com  
Missouri State Certificate of Authority #2005026903

Special Notice: Drawings prepared by CJD LLC are instruments of service for use solely with respect to this project. CJD LLC retains ownership and all common law, statutory law and other reserved rights including copyrights. This drawing shall not be reused in part or in full for any other work without prior written consent by and appropriate compensation to CJD LLC. Whenever changes to the design without prior written approval from CJD LLC, those in all their own and assumed full responsibility for any damages, liabilities or costs resulting directly or indirectly from such changes to the fullest extent of the law.







## ELECTRICAL SYMBOLS:

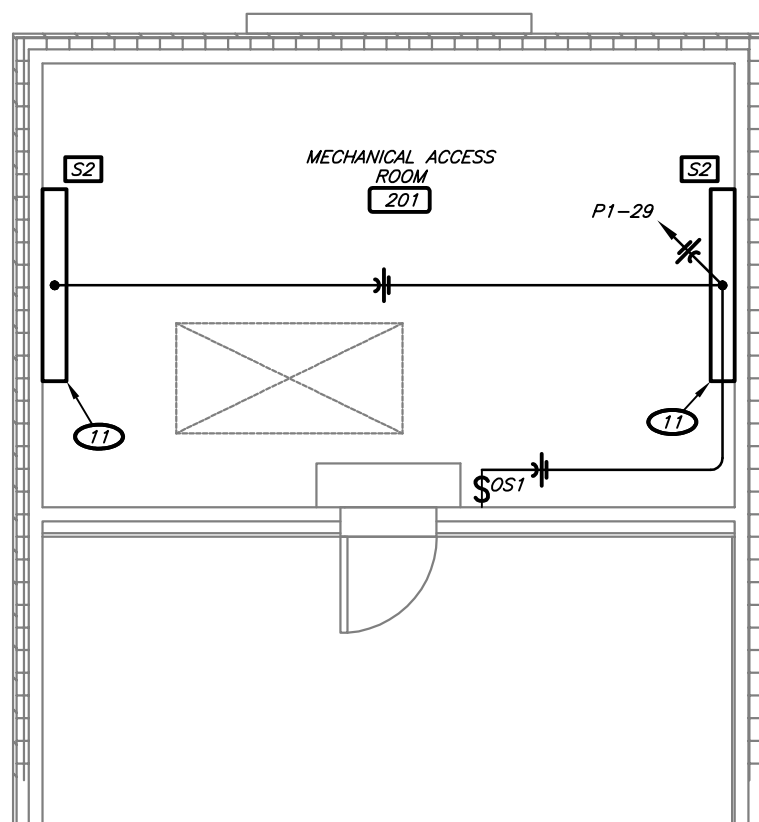
- SIMPLEX RECEPTACLE; 2P, 3W, 20A, 125V
- 14-30 SIMPLEX RECEPTACLE; NEMA CONFIGURATION AS INDICATED
- 42" DUPLEX RECEPTACLE; 2P, 3W, 20A, 125V
- 42" DUPLEX RECEPTACLE; MOUNTED @ 42" ABOVE FINISHED FLOOR
- AC DUPLEX RECEPTACLE; MOUNTED 6" ABOVE COUNTERTOP BACKSPASH
- GF DUPLEX RECEPTACLE W/ GROUND FAULT INTERRUPTER
- WP DUPLEX RECEPTACLE; WEATHERPROOF
- DOUBLE DUPLEX RECEPTACLE WITH COMMON FACEPLATE
- TELECOMMUNICATIONS OUTLET; ROUGH-IN JUNCTION BOX OR PLASTER RING ONLY. MAY BE USED FOR VOICE, DATA, FAX, MODEM, OR ANY COMBINATION THEREOF. CABLE, COVER PLATE & JACKS PROVIDED BY OTHERS.
- CABLE TV OUTLET; ROUGH-IN JUNCTION BOX OR PLASTER RING ONLY. CABLE, COVER PLATE & JACKS PROVIDED BY OTHERS.
- EXIT LIGHT; WALL MOUNTED / CEILING MOUNTED
- EMERGENCY LIGHT
- EXIT/EMERGENCY LIGHT
- LED LIGHT FIXTURE
- NIGHT LIGHT FIXTURE
- LIGHT SWITCH
- 3-WAY LIGHT SWITCH
- OS OCCUPANCY SENSOR LIGHT SWITCH
- OS CEILING MOUNTED OCCUPANCY SENSOR
- JUNCTION BOX
- LIGHTING & POWER PANELBOARD
- CONDUIT CONCEALED IN CEILING OR WALL
- CONDUIT BELOW GRADE
- HOME RUN; TICK MARKS INDICATE NUMBER OF WIRES, ARROWS INDICATE NUMBER OF CIRCUITS
- GROUND WIRE
- FEEDER PER SCHEDULE
- DISCONNECT SWITCH

## KEYNOTES:

- INSTALL RECEPTACLE IN CRAWL SPACE FOR SUMP PUMP. VERIFY LOCATION AND MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN.
- RECEPTACLE TO BE MOUNTED ABOVE CANNOPY. VERIFY LOCATION AND MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN.
- PROVIDE JUNCTION BOX AND POWER FOR HORTON SLIDING DOOR.
- RECEPTACLES FOR SECURITY AND AUDIO.
- PROVIDE JUNCTION BOX AND POWER FOR COOLER CONTROLS/LIGHTS. FIELD VERIFY EXACT LOCATION AND REQUIREMENTS.
- PROVIDE JUNCTION BOX AND POWER FOR COOLER EVAPORATOR. FIELD VERIFY EXACT LOCATION AND REQUIREMENTS.
- PROVIDE JUNCTION BOX FOR OUTDOOR HEATER CONTROLS 6" ABOVE SLIDING GLASS DOOR. COORDINATE ROUGH-IN AND WIRING REQUIREMENTS WITH OWNER.
- PROVIDE JUNCTION BOX FOR POWER CONNECTION TO BUILDING LED TAPE LIGHT. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION AND LINEAR FOOTAGE OF FIXTURE. CONNECT POWER TO LED STRIPS PER MANUFACTURE'S INSTRUCTION.
- PROVIDE WEATHER PROOF JUNCTION BOX AND TOGGLE SWITCH LOCATED ON SIGN IN CONCEALED LOCATION FOR EXTERIOR SIGNAGE PER REQ. COORDINATE EXACT LOCATION OF JUNCTION BOX WITH THE SIGNAGE PROVIDER PRIOR TO INSTALLATION. CONTRACTOR SHALL PULL ALL WIRING TO THE JUNCTION BOXES AND MAKE FINAL CONNECTIONS. COORDINATE ALL REQUIREMENTS WITH THE SIGNAGE PROVIDER.
- INSTALL FIXTURE 12" ABOVE TOP OF DOOR. FIELD VERIFY EXACT LOCATION WITH OWNER.
- INSTALL FIXTURE 7" ABOVE FINISH FLOOR. FIELD VERIFY MOUNTING HEIGHT WITH OWNER.
- RECEPTACLE FOR ESPRESSO MACHINE. PROVIDE CORD AND PLUG CONNECTION.
- POWER CONNECTION FOR AIR CURTAIN. COORDINATE ROUGH-IN, WIRING REQUIREMENTS, AND MOUNTING HEIGHT WITH OWNER.
- CT CABINET AND METER.
- COORDINATE INSTALLATION HEIGHT WITH ARCHITECT
- POWER CONNECTION FOR ELECTRIC HEATER. COORDINATE INSTALLATION HEIGHT WITH OWNER.
- RECEPTACLE FOR IPAD. COORDINATE INSTALLATION HEIGHT WITH OWNER.
- REFER TO 1/SU1.1 FOR CONTINUATION.
- (2) 2" COMMUNICATION CONDUITS WITH PULL-WIRE. COORDINATE TERMINATION WITH OWNER PRIOR TO INSTALLATION.
- COORDINATE LOCATION AND RECEPTACLE TYPE WITH EQUIPMENT PROVIDER.

## CONDUIT & CONDUCTOR SCHEDULE:

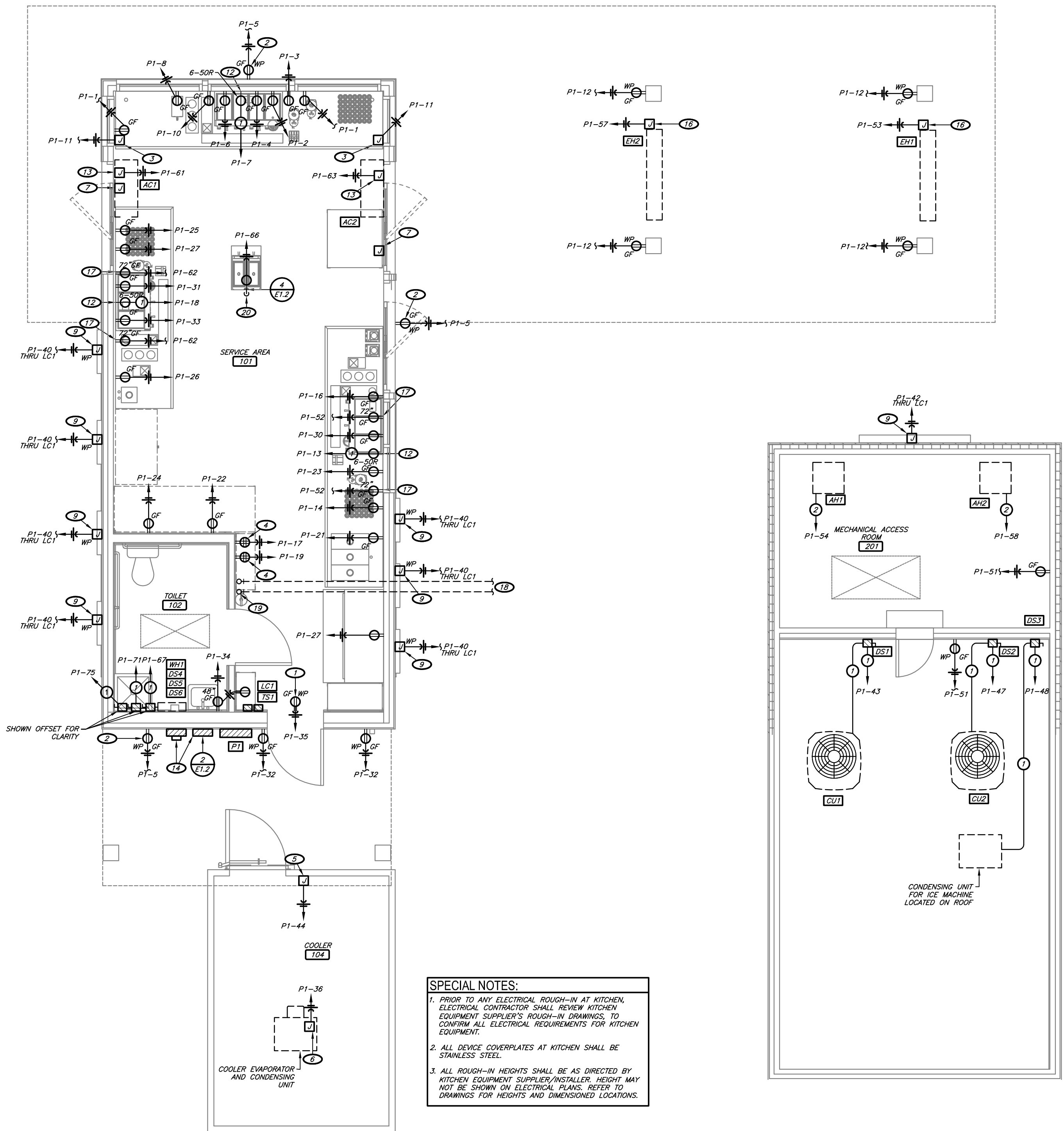
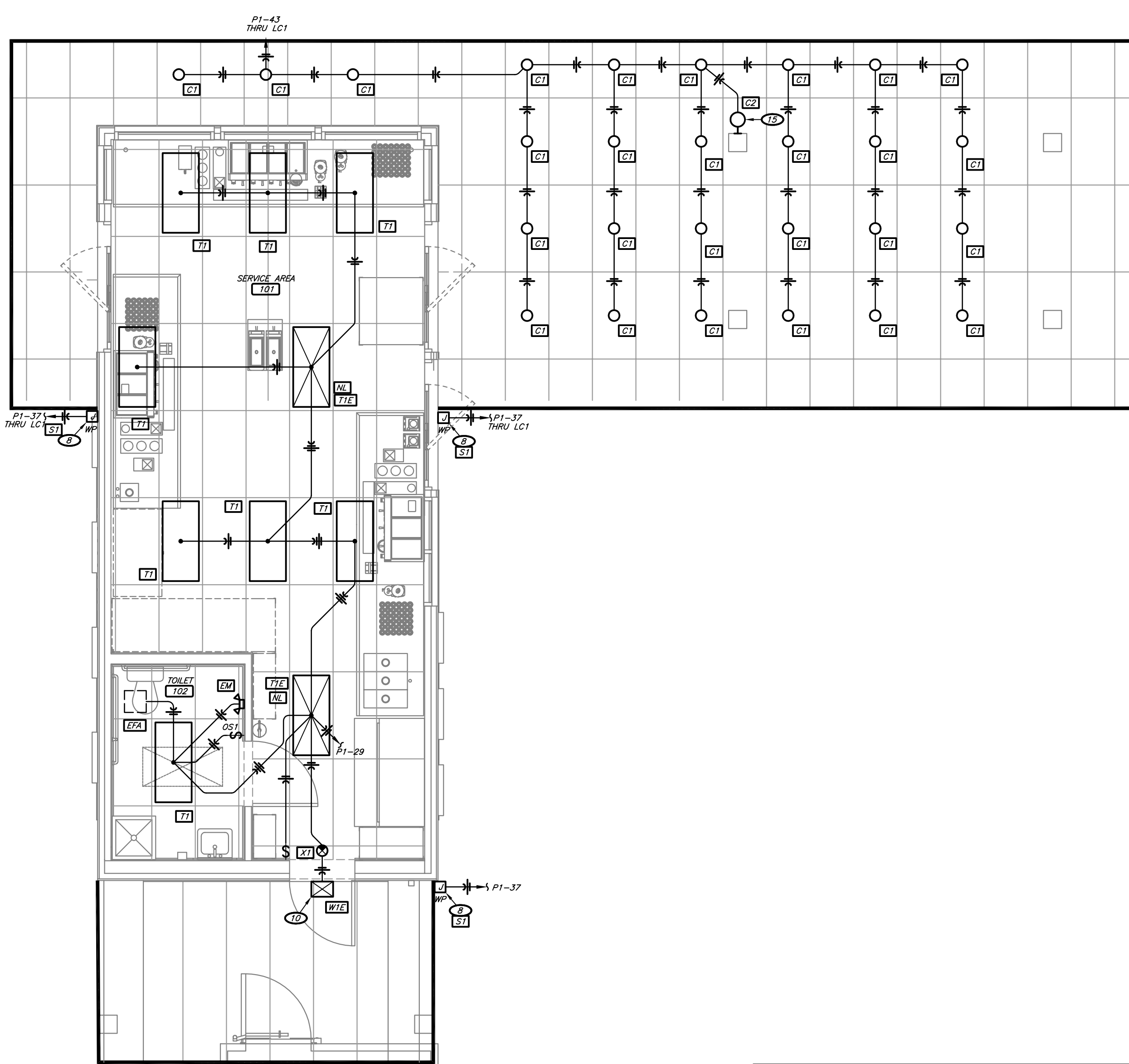
- (2) #8 AND (1) #10 GROUND, IN 0.75" CONDUIT.
- (2) #3 AND (1) #8 GROUND IN 1.25" CONDUIT.



## PARTIAL ROOF AND ATTIC LIGHTING PLAN

4

1/4" = 1'-0"



**SPECIAL NOTES:**

- PRIOR TO ANY ELECTRICAL ROUGH-IN AT KITCHEN, ELECTRICAL CONTRACTOR SHALL REVIEW KITCHEN EQUIPMENT SUPPLIER'S ROUGH-IN DRAWINGS, TO CONFIRM ALL ELECTRICAL REQUIREMENTS FOR KITCHEN EQUIPMENT.
- ALL DEVICE COVERPLATES AT KITCHEN SHALL BE STAINLESS STEEL.
- ALL ROUGH-IN HEIGHTS SHALL BE AS DIRECTED BY KITCHEN EQUIPMENT SUPPLIER/INSTALLER. HEIGHT MAY NOT BE SHOWN ON ELECTRICAL PLANS. REFER TO DRAWINGS FOR HEIGHTS AND DIMENSIONED LOCATIONS.

## GROUND LEVEL POWER PLAN

3

1/4" = 1'-0"



## ROOF AND ATTIC POWER PLAN

2

1/4" = 1'-0"



## GROUND LEVEL LIGHTING PLAN

1

1/4" = 1'-0"



Engineering | Energy | Innovation  
2225 West Chesterfield Boulevard, Suite 200, Springfield, MO 65807  
P: 417.877.1700 F: 417.324.7735 www.cjd-eng.com  
Missouri State Certificate of Authority #2005026903

Special Notice: Drawings prepared by CJD LLC are instruments of service for use solely with respect to this project. CJD LLC retains ownership and all common law, statutory and other reserved rights including copyright. This drawing shall not be re-used in part or in full for any other work without prior written consent by and appropriate compensation to CJD LLC. If the client changes the design without prior written approval from CJD LLC, the client shall be held responsible for any damages, liabilities or costs resulting directly or indirectly from such changes to the fullest extent of the law.

7 BREW COFFEE  
LEE'S SUMMIT, MO

1410 NE DOUGLAS STREET  
LEE'S SUMMIT, MO 64086



04-26-22

ENGINEER OF RECORD:  
NAME: RYAN JONES  
LICENSE NO. PE-2004017193  
PROJECT NUMBER:  
21334 7BSM  
REVISION:

E1.1  
ELECTRICAL PLAN

DATE: APRIL 26, 2022



