0.099

0.068

0.106

20 KIPS

NO AREA WITHIN THIS BUILDING HAS BEEN DESIGNED TO MEET THE REQUIREMENTS OF FEMA P-361 OR

STEEL SYSTEMS NOT SPECIFICALLY DETAILED

FOR SEISMIC RESISTANCE

EQUIVALENT LATERAL FORCE

SEISMIC FORCE RESISTING SYSTEM:

RESPONSE MODIFICATION COEF., R

15 MINUTE: 7.36 INCHES PER HOUR

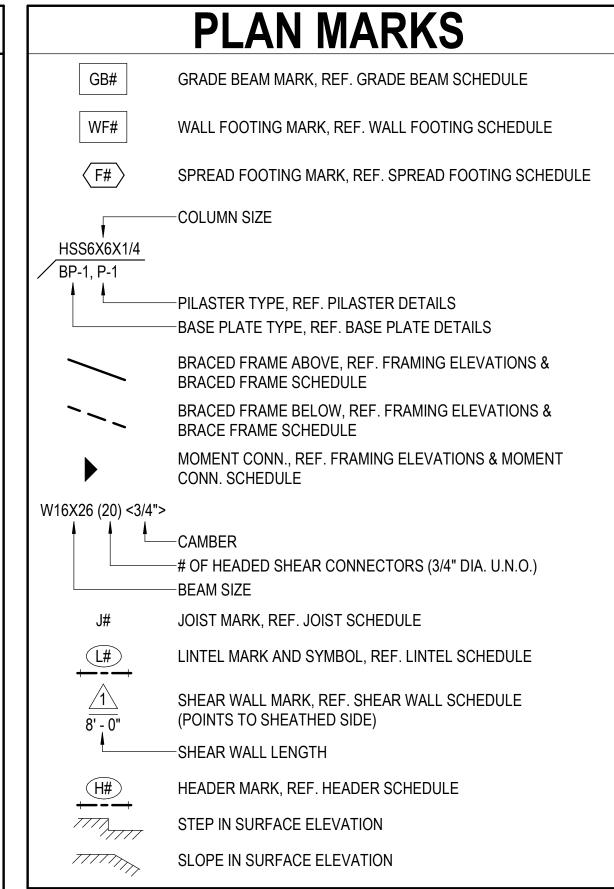
60 MINUTE: 3.53 INCHES PER HOUR

RAIN INTENSITY (DURATION/100 YEAR MEAN RECURRENCE):

METHOD OF ANALYSIS:

BASE SHEAR:

ICC 500.



H#	HEADER MARK, REF. HEADER SCHEDULE	E
7777	STEP IN SURFACE ELEVATION	E.
77777	SLOPE IN SURFACE ELEVATION	<u> E.</u> E.
	MATERIAL LEGEND	EI EI
	LOAD BEARING CMU (NON-LOAD BEARING CMU HALFTONED)	E(
	EARTH	E E
	EXISTING	E)
	GROUT/SAND/GRANULAR FILL	F. F.
4 4 4	PRECAST CONCRETE	T FI
	CONCRETE	F G
	NOT IN SCOPE (E.G. VENEER, PAVING, ETC.)	G G
	STEEL (IN SECTION)	G H
	GRATING	

SHEET NO.	SHEET TITLE
S-000	STRUCTURAL COVER SHEET
S-001	STRUCTURAL GENERAL NOTES
S-002	GENERAL NOTES AND IBC INSPECTION TABLES
S-101	FOUNDATION PLAN
S-102	MEZZANINE AND LOW ROOF FRAMING PLAN
S-103	HIGH ROOF FRAMING PLAN
S-201	ENLARGED PLAN
S-301	SCHEDULES AND DETAILS
S-302	SCHEDULES AND DETAILS
S-303	BRACE FRAME SCHEDULE AND DETAILS
S-304	MOMENT FRAME ELEVATIONS AND DETAILS
S-501	TYPICAL FOUNDATION DETAILS
S-502	FOUNDATION DETAILS
S-503	FOUNDATION DETAILS
S-550	TYPICAL FRAMING DETAILS
S-551	TYPICAL FRAMING DETAILS
S-552	FRAMING DETAILS
S-553	FRAMING DETAILS
S-554	FRAMING DETAILS
S-801	TYPICAL CMU DETAILS

#	NUMBER OR POUNDS	I.J.	ISOLATION JOINT		SHEET NO.	SHEET TITLE
(E)	EXISTING	IN	INCH(ES)		S-000	STRUCTURAL COVER SHEET
@	AT	INT.	INTERIOR		S-001	STRUCTURAL GENERAL NOTES
ADD'L	ADDITIONAL	K	KIPS		S-002	GENERAL NOTES AND IBC INSPECTION TABLES
ALT.	ALTERNATE	L(L)	LIVE (LOAD)		S-101	FOUNDATION PLAN
APPROX.	APPROXIMATE	LBS	POUNDS		S-102	MEZZANINE AND LOW ROOF FRAMING PLAN
ARCH.	ARCHITECTURAL	LLH	LONG LEG HORIZONTAL		S-103	HIGH ROOF FRAMING PLAN
B.O.	BOTTOM OF	LLV	LONG LEG VERTICAL		S-201	ENLARGED PLAN
BLDG.	BUILDING	LOC.	LOCATION		S-301	SCHEDULES AND DETAILS
ВОТ.	BOTTOM	MANUF.	MANUFACTURER		S-302	SCHEDULES AND DETAILS
BRG.	BEARING	MAX.	MAXIMUM		S-303	BRACE FRAME SCHEDULE AND DETAILS
C.J.	CONTROL JOINT	MECH.	MECHANICAL		S-304	MOMENT FRAME ELEVATIONS AND DETAILS
CFS	COLD-FORMED STEEL	MIN.	MINIMUM		S-501	TYPICAL FOUNDATION DETAILS
CL	CENTERLINE	MISC.	MISCELLANEOUS		S-502	FOUNDATION DETAILS
CLR.	CLEAR	MTL.	METAL		S-503	FOUNDATION DETAILS
CMU	CONCRETE MASONRY UNIT	N.A.	NOT APPLICABLE		S-550	TYPICAL FRAMING DETAILS
COL.	COLUMN	N.S.	NEAR SIDE		S-551	TYPICAL FRAMING DETAILS
COMP.	COMPOSITE	N.T.S.	NOT TO SCALE		S-552	FRAMING DETAILS
CONC.	CONCRETE	O.C.	ON CENTER		S-553	FRAMING DETAILS
CONN.	CONNECTION	O.D.	OUTSIDE DIAMETER		S-554	FRAMING DETAILS
CONST.	CONSTRUCTION	O.H.	OVERHEAD		S-801	TYPICAL CMU DETAILS
CONT.	CONTINUOUS	OPP.	OPPOSITE			
COORD.	COORDINATE	P.A.F.	POWDER ACTUATED FASTENER			
CTR.	CENTER	PCF	POUNDS PER CUBIC FOOT			
D(L)	DEAD (LOAD)	PEMB	PRE-ENGINEERED METAL BUILDING	G		
DBA	DEFORMED BAR ANCHOR	PERP.	PERPENDICULAR			
DEMO.	DEMOLITION / DEMOLISH	PL.	PLATE			
DIA.	DIAMETER	PLF	POUNDS PER LINEAR FOOT			
DIM.	DIMENSION	PSF	POUNDS PER SQUARE FOOT			
DWG.	DRAWING	PSI	POUNDS PER SQUARE INCH			
DWL.	DOWEL	QTY.	QUANTITY			
E(L)	EARTHQUAKE/SEISMIC (LOAD)	RAD.	RADIUS			
E.G.	FOR EXAMPLE	REF.	REFERENCE			
E.J.	EXPANSION JOINT	REINF.	REINFORCING			
E.O.R.	ENGINEER OF RECORD	REQ'D	REQUIRED			

REVISION/REVISED

STAINLESS STEEL

SQUARE FEET/FOOT

SPECIALTY STRUCTURAL ENGINEER

SAWN JOINT

SCHEDULE

SIMILAR

SPACE(S)

SQUARE

STANDARD

STIFFENER

STRUCTURAL

TEMPORARY

WIND (LOAD

WORKING POINT

TYPICAL

TENSION/COMPRESSION

UNLESS NOTED OTHERWISE

WATER / CEMENT RATIO

WELDED WIRE FABRIC

TOP OF

STRUCT.

ABBREVIATIONS

EACH

ELEVATION

ELECTRICAL

ELEVATOR

EQUIPMENT

ET CETERA

EXISTING

EXTERIOR

FAR SIDE

FOOTING

GALVANIZED

HEADED STUD

HORIZONTAL

INSIDE DIAMETER

INVERT ELEVATION

FIELD VERIFY

FOUNDATION FEET / FOOT

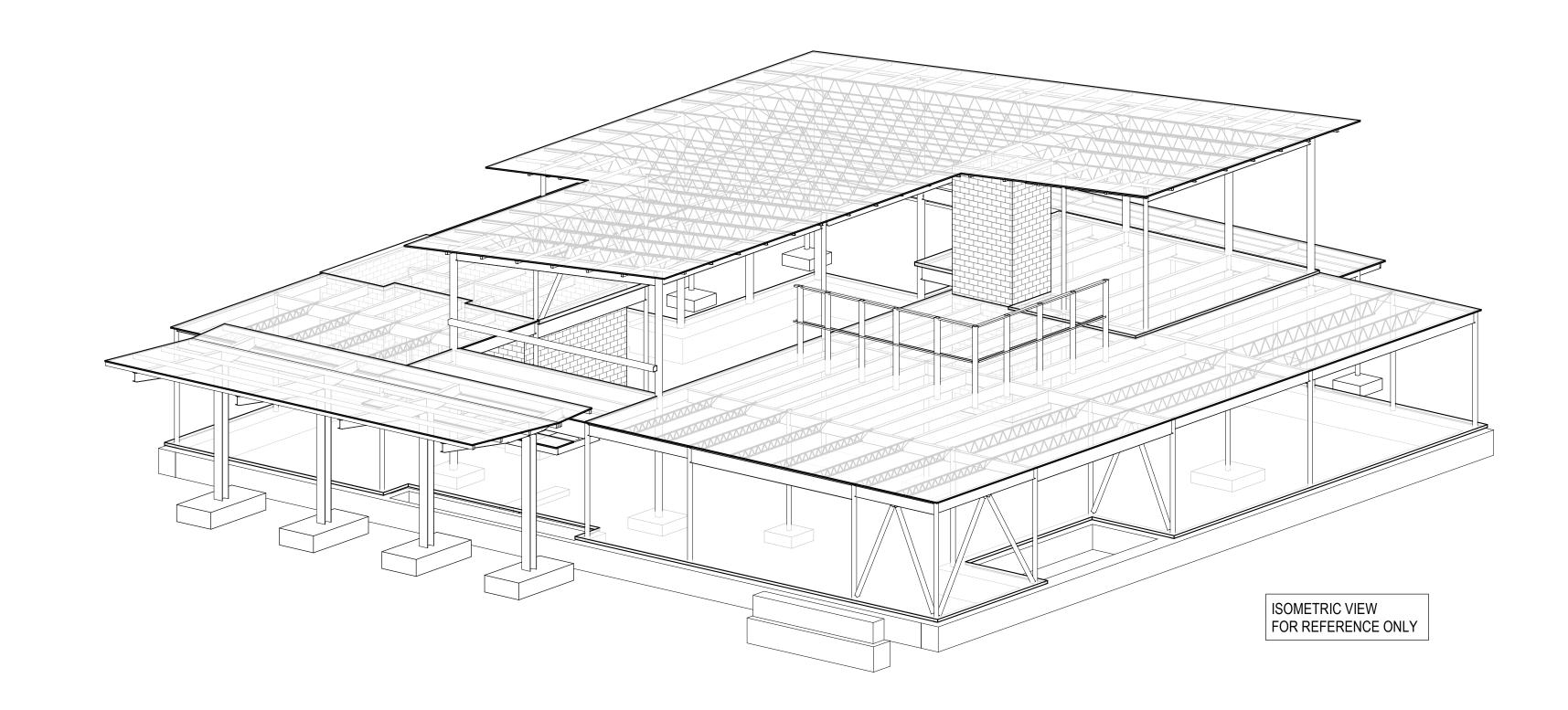
GENERAL CONTRACTOR

HOT-DIP GALVANIZED

EXPANSION

EQUAL

COMPONENTS AND CLADDING TABLE ALL WIND PRESSURES AND LOAD COMBINATIONS SHALL BE PROVIDED AND APPLIED PER ASCE 7-16. PRESSURES SHOWN ARE APPLIED NORMAL TO THE SURFACE. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACES, RESPECTIVELY. FOR EFFECTIVE WIND AREAS BETWEEN THOSE GIVEN, STRAIGHT LINE INTERPOLATION MAY BE USED; OTHERWISE, USE THE VALUE ASSOCIATED WITH THE LOWER EFFECTIVE WIND AREA. IF OVERHANGS EXIST, THE LESSER HORIZONTAL DIMENSION OF THE BUILDING SHALL NOT INCLUDE ANY OVERHANG DIMENSION, BUT THE EDGE DISTANCE, 'a', SHALL BE MEASURED FROM THE OUTSIDE EDGE OF THE OVERHANG. . h = MEAN ROOF HEIGHT IN FT., EXCEPT THAT EAVE HEIGHT SHALL BE USED FOR ROOF ANGLES < 10°. A NET ROOF DEAD LOAD OF 15 PSF MAY BE ASSUMED TO RESIST JOIST UPLIFT FORCES. C&C LOADS SHALL BE USED BY THE STEEL JOIST SUPPLIER AND ANY OTHER MANUFACTURER TO DETERMINE WALL DESIGNS, ROOF DESIGNS, CONNECTION DESIGNS, ETC. PARAPET C&C PRESSURE WALL AND ROOF C&C PRESSURE PRESSURE (PSF) KEY AREA 1 KEY AREA 1* KEY AREA 2 KEY AREA 3 **KEY AREA 4** KEY AREA 5 INTERIOR ZONE CORNER ZONE <10 SF > 100 SF > 100 SF <10 SF > 100 SF > 10 NEGATIVE -48.1 | -37.5 | -27.6 | -27.6 | -63.4 | -49.9 | -86.4 | -59.3 | -29.9 | -25.9 | -36.8 | -28.7 | -42.8 | -35.6 | -48.9 | -38.1 OVERHANG





CONSTRUCTION As Noted on Plans Review

1627 MAIN STREET, SUITE 600 KANSAS CITY, MO 64108

1627 MAIN STREET, SUITE 100

KANSAS CITY, MO 64108





1100 MAIN ST, STE 1800 KANSAS CITY, MO 64105



1301 BURLINGTON

NORTH KANSAS CITY, MO 64116

MINAL 32172 TERI 179

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MARK DATE DESCRIPTION

ISSUED FOR: FINAL REVIEW PROJECT NO: 250104-000 REVIT FILE: 250104-000 STRUCT R24.rvt DESIGNED BY: JSH DRAWN BY: DGC

CHECKED BY: WTL APPROVED BY: WTL COPYRIGHT 2025

STRUCTURAL COVER SHEET

3. REFERENCE THE GENERAL NOTES & DRAWINGS FOR BUILDING CODE, SERVICE CRITERIA, AND DESIGN

4. SUBMITTALS FOR DELEGATED COMPONENTS & SYSTEMS SHALL INCLUDE THE FOLLOWING:

PROJECT IS LOCATED, INCLUDING PROJECTS ON FEDERAL LAND.

A. A FULL DESIGN ANALYSIS, INCLUDING CALCULATIONS FOR GRAVITY AND LATERAL LOADS, WITH A SEALED COVER SHEET IDENTIFYING THE PROJECT NAME AND ADDRESS.

B. THE SSE THAT SEALED THE CALCULATIONS SHALL ALSO SEAL THE FABRICATION, PLACING, AND ERECTION PLANS. EACH PLAN SHALL IDENTIFY THE PROJECT NAME AND ADDRESS.

C. IF THE SSE THAT SEALED THE CALCULATIONS AND PLANS IS AN EMPLOYEE OF A COMPANY, THE COMPANY'S CERTIFICATE OF AUTHORIZATION NUMBER SHALL BE INCLUDED ON THE SUBMITTALS. BOTH

5. THE CONTRACTOR SHALL REVIEW THE SUBMITTAL FOR QUANTITIES AND DIMENSIONS AND VERIFY THAT THE ABOVE INFORMATION HAS BEEN INCLUDED IN THE SUBMITTAL.

THE SSE SEAL AND THE CERTIFICATE OF AUTHORIZATION SHALL BE ISSUED BY THE STATE IN WHICH THE

6. NO SUBMITTAL WILL BE REVIEWED UNLESS ALL OF THE ABOVE INFORMATION IS INCLUDED. THE ENGINEER OF RECORD SHALL NOT BE RESPONSIBLE FOR DELAYS CAUSED BY INCOMPLETE SUBMITTALS.

7. STEEL JOISTS / JOIST GIRDERS

A. STEEL JOISTS SHALL MEET THE LATEST STEEL JOIST INSTITUTE (SJI) AND AISC JOIST SPECIFICATIONS, AND SHALL BE FABRICATED BY A MEMBER OF THE SJI.

B. DESIGN ALL STEEL ROOF JOISTS, JOIST GIRDERS, AND BRIDGING FOR A NET UPLIFT PRESSURE PER THE JOIST SCHEDULE AND COMPONENTS AND CLADDING TABLE. BRIDGING LOCATIONS TO BE DETERMINED BY JOIST SUPPLIER PER SJI RECOMMENDATIONS.

C. WHERE JOIST BEARING CONDITIONS REQUIRE NON-STANDARD BEARING ENDS, JOIST FABRICATOR SHALL PROVIDE SPECIAL BEARING ENDS AS REQUIRED TO ACCOMMODATE SUCH CONDITIONS.

D. PROVIDE STABILIZER PLATES AND ERECTION BOLTS AT LOCATIONS REQUIRED PER SJI SPECIFICATIONS AND OSHA REGULATIONS.

E. UNLESS SPECIFICALLY NOTED, JOIST SIZES INDICATED ARE FOR UNIFORMLY APPLIED LOADS.
MANUFACTURER SHALL PROVIDE JOIST CAPACITY TO SUPPORT SPECIAL LOADS AS NOTED ON PLANS.

F. SUSPENSION OF ANY MISCELLANEOUS ITEMS FROM JOISTS SHALL BE ONLY AT TOP OR BOTTOM CHORD PANEL POINTS UNLESS INDICATED OTHERWISE.

G. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ROUTING OF MECHANICAL OR ELECTRICAL COMPONENTS WITH JOIST BRIDGING AND/OR JOIST WEB MEMBERS PRIOR TO JOIST FABRICATION.

H. STEEL JOISTS

a. ALL STEEL JOIST BEARING CONNECTIONS SHALL BE WELDED UNLESS NOTED OTHERWISE

b. JOIST SHALL BE DESIGNED BY THE MANUFACTURER FOR ALL LOADING CONDITIONS AND TABLES PER SJI AND, IN ADDITION, ANY SPECIAL OR APPLIED LOADS AS MAY BE INDICATED IN THE DRAWINGS. JOIST MANUFACTURER SHALL NOT DESIGN JOISTS FOR LESS THAN LOADS SPECIFIED IN SJI CAPACITY TABLES FOR JOIST DESIGNATION SHOWN ON PLANS.

c. JOIST EXTENSIONS SHALL BE DESIGNED FOR THE SAME LOADS AS THE MAIN JOIST SPAN UNLESS NOTED OR DETAILED OTHERWISE.

8. COLD-FORMED STEEL (CFS) FRAMING

A. COLD-FORMED STEEL COMPONENTS AND CONNECTIONS SHALL BE DESIGN IN ACCORDANCE WITH THE LATEST AISI DESIGN STANDARDS AND ARE THE RESPONSIBILITY OF THE CFS SUPPLIER AND CFS SSE.

B. PRODUCTS SHALL BE FORMED FROM STEEL MEETING THE REQUIREMENTS OF AISI, SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, UNLESS NOTED OTHERWISE.

C. ALL COLD-FORMED STEEL STUDS, PURLINS, AND TRUSS SYSTEMS SHALL BE GALVANIZED PER AISI STANDARDS. APPLY ZINC-RICH PAINT TO ALL AREAS WHERE FINISH IS DAMAGED DUE TO WELDING.

D. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS.

E. PROVIDE ALL ACCESSORIES INCLUDING, BUT NOT LIMITED TO, TRACKS, CLIPS, WEB STIFFENERS,

FASTENERS, ANCHORAGE DEVICES, CONNECTION ANGLES, BRIDGING, AND MISCELLANEOUS HARDWARE REQUIRED TO COMPLETE ALL CONNECTIONS AND INSTALLATION.

F. FASTENING OF FRAMING COMPONENTS SHALL BE WITH SELF-TAPPING SCREWS OR WELDING OF SUFFICIENT SIZE TO ENSURE THE STRENGTH OF THE CONNECTION. WELDS SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST AWS D1.3 CODE.

G. COLD-FORMED STEEL STUD PRODUCTS SHALL BE MANUFACTURED BY A CURRENT MEMBER OF THE STEEL STUD MANUFACTURER ASSOCIATION (SSMA) OR THE STEEL FRAMING INDUSTRY ASSOCIATION (SFIA).

a. THE PHYSICAL AND STRUCTURAL PROPERTIES SHALL BE EQUIVALENT TO THOSE LISTED BY THE SSMA "PRODUCT TECHNICAL INFORMATION" AND ICC-ES ER-3064P FOR "S" AND "T" SECTIONS.

b. PROVIDE WALL STUD BRIDGING SPACES AT 4'-0" ON CENTER, MAXIMUM IN ALL EXTERIOR WALLS AND INTERIOR, LOAD BEARING WALLS.

c. PROVIDE DEFLECTION TRACK AT THE TOP OF ALL NON-LOAD BEARING STUD WALLS WHERE THE TOP OF WALL ABUTS THE BOTTOM OF THE STRUCTURE.

d. DEFLECTION TRACK SHALL CONFORM TO GUIDELINES IN SSMA TECH NOTE NO. 1 AND SHALL ACCOMMODATE A DEFLECTION DESCRIBED UNDER CONSTRUCTION DETAILS FOR STRUCTURAL MOVEMENT.

e. ATTACH STUDS TO TRACK WITH A MINIMUM OF ONE SCREW IN EACH STUD FLANGE, UNLESS NOTED OTHERWISE.

H. STUD TRACK SECTIONS SHALL MEET OR EXCEED THICKNESS OF STUD MEMBERS, UNLESS NOTED OTHERWISE.

8. HANDRAILS/GUARDRAILS

A. HANDRAILS/GUARDRAILS SHALL BE DESIGNED, DETAILED, AND ERECTED IN ACCORDANCE WITH IBC/OSHA/NAAMM AMP 510 AND NAAMM AMP 521.

SOIL PREPARATION AND FOUNDATIONS

1. THE FOUNDATION SYSTEM IS DESIGNED AS RECOMMENDED IN THE GEOTECHNICAL INVESTIGATION PREPARED BY KRUGER TECHNOLIGIES, INC., JOB NO. 224081G DATED MAY 30, 2024. A COPY IS IN THE SPECIFICATIONS OR IS AVAILABLE FOR INSPECTION AT THE ARCHITECT'S PLACE OF BUSINESS.

2. REMOVE TOP SOIL CONTAINING ORGANIC MATERIAL AND PREPARE THE BUILDING PAD IN ACCORDANCE WITH THE CIVIL ENGINEERING PLANS, SPECIFICATIONS, AND GEOTECHNICAL INVESTIGATION.

3. REMOVE SOIL AS REQUIRED TO ALLOW FOR A LOW VOLUME CHANGE ZONE THICK UNDER THE FLOOR SLAB AND DRAINAGE MATERIAL. FILL TO SUBGRADE ELEVATION SHOWN ON THE DRAWINGS WITH NON-EXPANSIVE FILL OR STABILIZED SOIL PER SPECIFICATION.

4. DO NOT BACKFILL FOUNDATIONS/BASEMENT WALLS UNTIL THE RESTRAINING SLABS OR ADEQUATE BRACING ARE IN PLACE. ALL BACKFILL SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATION.

5. EXTERIOR SLABS SHALL SLOPE AWAY FROM THE STRUCTURE A MINIMUM OF 1/4" PER FOOT UNLESS NOTED OTHERWISE.

6. SOIL SUPPORTED FOUNDATIONS:

A. DESIGN BEARING PRESSURE (NET) IS 3,000 PSF FOR FOUNDATIONS BEARING ON UNDISTURBED SOIL OR APPROVED ENGINEERED FILL MATERIAL. BEARING MATERIALS SHALL BE VERIFIED BY A LICENSED GEOTECHNICAL ENGINEER.

B. ALL FOUNDATIONS ARE DESIGNED WITH EARTH FORMED SIDES; THE TOP 7-1/4" OF THE FOUNDATION SHALL BE FORMED TO THE DESIGN DIMENSION WHEN VISIBLE AFTER CONSTRUCTION IS COMPLETE. THE CONSTRUCTED FOUNDATION DIMENSION SHALL BE NO LESS THAN THE DESIGN DIMENSION, AND NO MORE THAT 6" GREATER THAN THE DESIGN DIMENSION.

CONCRETE

1. ALL CONCRETE HAS BEEN DESIGNED IN ACCORDANCE WITH ACI 318 AND THE BUILDING CODE, AND IN CONFORMANCE WITH THE CURRENT "ACI MANUAL OF CONCRETE PRACTICE."

2. THE CONCRETE REQUIREMENTS ARE:

A. FINE AGGREGATE FOR NORMAL WEIGHT CONCRETE SHALL MEET ASTM C33.

B. COARSE AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33. COARSE AGGREGATES SHALL BE NO LESS THAN 50% OF THE TOTAL AGGREGATE BY WEIGHT, UNLESS APPROVED BY THE ENGINEER PRIOR TO MIX DESIGN SUBMITTAL.

C. THE CONTRACTOR OR MIX DESIGNER SHALL SPECICFY AN APPROPRIATE SLUMP PER ACI 117 FOR THE APPLICATION AS NEEDED FROM PUMPING, WORKABILITY, AND FINISHING. IF CONCRETE IS PLACED THROUGH A FUNNEL HOPPER AT THE TOP OF A DEEP FOUNDATION ELEMENT, THE MIX SHALL HAVE A SLUMP BETWEEN 4" AND 8".

D. FOR EACH MIX DESIGN, THE MATERIAL SUPPLIER SHALL INCLUDE AN ENVIRONMENTAL PRODUCT DECLARATION (EPD) IN CONFORMANCE WITH THE PROJECT SPECIFICATIONS. THE THIRD-PARTY-VERIFIED EPD WILL BE USED TO DOCUMENT THE ESTIMATED GLOBAL WARMING POTENTIAL (GWP). ALL GWP INFORMATION SUBMITTED SHALL BE IN THE FORM OF kgCO₂e/CY.

E. THE CONCRETE COMPRESSIVE STRENGTH, f'c, SHALL BE BASED ON 28-DAY TESTS UNLESS NOTED

F. REFER TO CONCRETE MIX DESIGN REQUIREMENTS TABLE FOR MIX DESIGN.

3. ADMIXTURES, HARDENERS, & CURING COMPOUNDS

A. ALL CONCRETE ADMIXTURES SHALL, WHEN MIXED INTO CONCRETE, BE NON-CHLORIDE AND NON-CHLORIDE FORMING.

B. ALL ADMIXTURES MUST CONFORM TO ASTM C 494 AND C 260.

C. CONCRETE CURING COMPOUND AND SEALERS SHALL MEET ASTM C 309 TYPE 1 OR 1D.

D. USE OF "SELF CONSOLIDATING" CONCRETE MUST BE SUBMITTED FOR APPROVAL WITH THE CONCRETE MIX DESIGN.

E. CONCRETE PENETRATING HARDENER SEALERS SHALL BE USED ON ALL EXPOSED CONCRETE FLOORS UNLESS OTHER COATINGS ARE REQUIRED BY THE ARCHITECT.

4. MISCELLANEOUS CONCRETE DETAILS:

A. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" INSIDE THE FORMS OR TOOLED TO 3/4" RADIUS UNLESS NOTED OTHERWISE.

B. SLABS ON GRADE SHALL HAVE CONSTRUCTION JOINTS AND/OR CONTROL JOINTS (SAWN JOINTS) TO DIVIDE THE SLAB INTO PANELS, NOT TO EXCEED 256 SQUARE FEET. THE LONG DIMENSION SHALL NOT EXCEED THE SHORT DIMENSION BY MORE THAN 20%. CONTRACTOR TO SUBMIT PROPOSED LOCATIONS FOR APPROVAL.

C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL FORMING AND SHORING. SCREEDS SHALL ALSO INCORPORATE THIS CAMBER TO CREATE A FINISHED SLAB OF UNIFORM THICKNESS. ELEVATED SLABS SHALL NOT HAVE THE FORMS REMOVED WITHOUT PLACING RESHORES. IF ADDITIONAL ELEVATED SLABS WILL BE SHORED ON TOP OF PREVIOUSLY CAST ELEVATED SLABS, THE SLABS SHALL BE RESHORED IN ACCORDANCE WITH ACI.

D. NO ALUMINUM SHALL BE EMBEDDED IN CONCRETE. CONDUITS AND PIPING EMBEDDED IN CONCRETE WALLS, SLABS, OR BEAMS SHALL BE SPACED A MINIMUM OF FOUR DIAMETERS AND THE OUTSIDE DIAMETER SHALL BE LESS THAN 30% OF THE MEMBER THICKNESS AND PLACED BETWEEN LAYERS OF REINFORCING.

E. NO CONDUIT MAY BE EMBEDDED IN SLABS ON METAL DECK OR TOPPING SLABS ON PRECAST CONCRETE UNLESS SPECIFICALLY DETAILED OR NOTED OTHERWISE ON STRUCTURAL PLANS.

5. WHEN THE CONCRETE WILL HAVE MOISTURE SENSITIVE FLOOR COVERING, THE CONTRACTOR SHALL COORDINATE THE CURING TIME TO ALLOW THE MOISTURE VAPOR TRANSMISSION TO REDUCE THE LEVEL THAT THE ADHESIVE MANUFACTURER WILL GUARANTEE THE INSTALLATION. THE CONTRACTOR SHALL HAVE THE FLOOR COVERING INSTALLER TEST THE MOISTURE VAPOR TRANSMISSION OR USE AN ADHESIVE DESIGNED FOR THE RATE OF VAPOR TRANSMISSION OCCURRING AT THE TIME OF INSTALLATION.

CONCRETE MIX DESIGN REQUIREMENTS							
LOCATION	TARGET EXPOSURE CLASSES					NOTES	
	(PSI)	CONTENT	F	С	S	W	
GRADE BEAMS/SPREAD FOOTINGS	4500	6%	F2	C1	S0	W1	
PILASTERS	4000	NR	F0	C0	S0	W0	
INTERIOR SLAB ON GRADE	4000	NR	F0	C0	S0	W0	FLEXURAL STRENGTH OF 650 PSI WHERE SUBJECT TO VEHICLE TRAFFIC.
SLAB ON DECK	4000	NR	F0	C0	S0	W0	

CONCRETE REINFORCING

1. MATERIALS ASTM GRADE

PLATE & ANGLE: A36 --REINFORCING STEEL: A615 60
WELDABLE REINFORCING STEEL A706 60
DEFORMED BAR ANCHORS: A706 60
ANCHOR RODS (BOLTS): F1554 36

2. DETAILS:

A. WELDING OF REINFORCING STEEL IS PROHIBITED UNLESS NOTED OTHERWISE. WHEN WELDING IS APPROVED, WELDING SHALL BE IN ACCORDANCE WITH AWS D1.4 "WELDING REINFORCING STEEL, ETC."

B. SHOP DRAWINGS SHALL BE SUBMITTED WITH REINFORCING STEEL IN ACCORDANCE WITH ACI 315.

3. PLACEMENT:

A. ALL REINFORCING AND EMBEDMENTS SHALL BE SUPPORTED ON CHAIRS/BOLSTERS TO THE DESIGN DIMENSIONS. SPACING SHALL BE SUFFICIENTLY CLOSE TO PREVENT DISPLACEMENT OR PERMANENT DEFORMATION DUE TO CONCRETE PLACEMENT, FOOT TRAFFIC, OR VIBRATION. "PUDDLING IN" OR "PULLING UP" REINFORCING IS NOT AN ACCEPTABLE METHOD FOR PLACING REINFORCING. CHAIRS/BOLSTERS SHALL HAVE PLASTIC COATED FEET OR BE MADE OF STAINLESS STEEL. CHAIRS/BOLSTERS IN CONTACT WITH EARTH SHALL HAVE BOTTOM PLATES AND BE COATED TO PREVENT CORROSION. ANCHOR RODS SHALL BE HELD IN PLACE WITH TEMPLATES SUFFICIENTLY STRONG TO PREVENT DISPLACEMENT OR TILTING.

B. MAINTAIN ACI CLEAR COVER ON REINFORCING AS LISTED BELOW UNLESS NOTED OTHERWISE

CAST AGAINST EARTH (BOTTOM OR SIDES): 3
FORMED - EXPOSED TO SOIL, WEATHER OR LIQUIDS: 2
SLABS ON GRADE (FROM TOP OF SLAB): 1

C. PROVIDE CORNER BARS OF THE SAME SIZE AND SPACING AS ADJACENT REINFORCING.

D. OPENINGS IN WALLS OR SLABS SHALL BE REINFORCED PER TYP. CONC. OPENING REINF. DETAIL.

E. REINFORCING STEEL SHALL BE LAPPED PER CONCRETE REINFORCEMENT LAP TABLE.

F. WELDED WIRE FABRIC SHALL BE LAPPED ONE FULL SQUARE PLUS 2"

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL MEET THE LATEST "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGE," AND HAS BEEN DESIGNED IN ACCORDANCE WITH THE BUILDING CODE AND THE LATEST EDITION OF AISC "MANUAL OF STEEL CONSTRUCTION".

2. STRUCTURAL STEEL SHALL BE NEW AND MEET THE FOLLOWING REQUIREMENTS UNLESS NOTED OTHERWISE ON THE DRAWINGS:

TYPE	ASTM	GRADE
W & WT SHAPES	A992	
PLATES, CHANNELS, & ANGLES	A36	
RECTANGULAR HSS SECTIONS	A500	C (F _Y =50 KSI)
STRUCTURAL BOLTS	A325	(ASTM F1852)
ERECTION BOLTS	A307	
HEADED ANCHOR STUDS	A108	1015/1025
HEADED ANCHOR STUDS	A 100	1015/1025

3. ALL BOLTED CONNECTIONS SHALL BE STANDARD AISC BEARING TYPE FRAMING CONNECTIONS. BOLTS SHALL BE TENSION-INDICATING FOR INSPECTION PURPOSES.

A. BOLTED MOMENT CONNECTIONS INDICATED ON DRAWINGS SHALL USE FRICTION TYPE PRETENSIONED BOLTS AND INDICATED AS SLIP CRITICAL (SC).

4. ALL CONNECTIONS NOT DETAILED OR OTHERWISE NOTED SHALL BE PROVIDED BY THE FABRICATOR AND HIGHLIGHTED FOR THE ENGINEER OF RECORD'S REVIEW.

A. SLIP CRITICAL (SC) CONNECTIONS SHALL HAVE UNCOATED CLASS A FAYING SURFACES.

5. ALL WELDING SHALL BE IN ACCORDANCE WITH LATEST AWS CODE, SECTION D1.1. ALL WELD MATERIAL SHALL BE 70 KSI TENSILE STRENGTH.

6. STEEL FRAMING MEMBERS SHALL NOT BE SPLICED.

7. OPENINGS SHALL NOT BE FIELD-CUT IN THE FLANGE OR WEBS OF STEEL MEMBERS.

8. PACK GROUT SOLIDLY BETWEEN BEARING SURFACES AND BASE PLATES WITH FACTORY-PACKAGED, NON-METALLIC, NON-SHRINK, NON-CORROSIVE GROUT COMPLYING WITH ASTM C1107. GROUT TO HAVE A MINIMUM COMPRESSIVE 28 DAY STRENGTH OF 7,500 PSI.

9. GALVANIZED STRUCTURAL STEEL SHALL CONFORM TO ASTM A123 FOR MEMBERS AND ASTM A153 FOR CONNECTION ELEMENTS. REPAIR ANY DAMAGED GALVANIZING COATING IN ACCORDANCE WITH ASTM A780.

10. ALL STEEL BEAMS USED IN COMPOSITE SYSTEMS HAVE BEEN DESIGNED FOR UNSHORED CONSTRUCTION.

A. COMPOSITE SLAB SHEAR CONNECTORS SHALL BE OF SIZE AND QUANTITY INDICATED ON THE DRAWINGS AND SPACED EQUALLY ALONG THE CENTERLINE OF THE BEAM. WHERE SHEAR CONNECTORS ARE NOT CALLED FOR ON DRAWINGS, PROVIDE SHEAR CONNECTORS FOR ALL BEAMS SUPPORTING COMPOSITE SLABS AT 3'-0" O.C. MAX.

B. THE DESIGN IS BASED ON THE CONTRACTOR PLACING THE CONCRETE TO A UNIFORM THICKNESS OVER THE DECK BY HAVING THE SCREED FOLLOWING THE CAMBER OF THE BEAM. POURING THE CONCRETE TO A UNIFORM ELEVATION MAY CAUSE EXCESSIVE ACCUMULATION OF CONCRETE AT THE MID-SPAN OF THE BEAMS AND REDUCE DESIGN CAPACITY.

STEEL DECKING

1. DECK SHALL BE ATTACHED TO ALL SUPPORTING MEMBERS

A. ATTACH METAL DECK TO STEEL MEMBERS WITH 5/8" DIAMETER PUDDLE WELDS. USE WELDING WASHERS FOR DECKS THINNER THAN 22 GAUGE. WELDS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS OF THE AWS. REFERENCE THE DECK ATTACHMENT DETAIL. (IF MECHANICAL FASTENERS ARE PREFERRED, CONTRACTOR MAY SUBMIT A REPLACEMENT THAT IS SHOWN TO HAVE EQUAL OR GREATER CAPACITY THAN THE DECK ATTACHMENT SHOWN)

B. SIDE LAPS OF METAL DECK SHALL BE FASTENED TOGETHER WITH #10 TEK SCREWS WITH METAL IN FULL CONTACT. REFERENCE THE DECK ATTACHMENT DETAIL.

2. STEEL ROOF DECK SHALL BE 1-1/2" DEEP, 22 GAUGE, WIDE RIB METAL DECKING WITH THE FOLLOWING PROPERTIES:

MINIMUM Fy: 50 KSI
MINIMUM Ip: 0.155 IN⁴
MINIMUM Sp: 0.169 IN³
MINIMUM In: 0.178 IN⁴
MINIMUM Sn: 0.179 IN³

ROOF DECK SHALL CONFORM TO ASTM A653 WITH G60 FINISH. DECK SHALL BE CONTINUOUS OVER A MINIMUM OF THREE SPANS. EACH DECK UNIT SHALL BE ATTACHED TO SUPPORTING MEMBERS AND ADJACENT PANELS PER THE DIAPHRAGM ATTACHMENT DETAIL.

3. COMPOSITE FLOOR DECK SHALL BE 2" DEEP, 20 GAUGE, COMPOSITE METAL DECK WITH THE FOLLOWING PROPERTIES:

MINIMUM F_Y: 50 KSI
MINIMUM I_P: 0.409 IN⁴
MINIMUM S_P: 0.326 IN³
MINIMUM I_N: 0.407 IN⁴
MINIMUM S_N: 0.337 IN³

COMPOSITE DECK SHALL [CONFORM TO ASTM A653 WITH G60 FINISH/RECEIVE FINISH PER SPECIFICATION]. DECK SHALL BE CONTINUOUS OVER A MINIMUM OF THREE SPANS. WHEN THE COMPOSITE DECKING EXCEEDS THE MAXIMUM SAFE CONSTRUCTION SPAN AS DEFINED BY SDI, THE CONTRACTOR SHALL SHORE THE DECKING. DECK SHORING SHALL CONSIST OF A SINGLE HORIZONTAL SHORE MIDWAY BETWEEN BEAMS SUPPORTED BY SHORES THAT SPAN FROM BEAM TO BEAM. THIS ALLOWS THE SHORES/DECKING TO DEFLECT WITH THE BEAMS. DO NOT SHORE DECK FROM GRADE OR FLOOR BELOW.

4. PROVIDE ANGLE FRAME TO SUPPORT METAL DECK AT ALL ROOF DRAINS AND OTHER OPENINGS GREATER THAN 8" X 8". OPENINGS SMALLER THAN 8" REQUIRE NO REINFORCEMENT.

ASONRY

1. MASONRY HAS BEEN DESIGNED IN ACCORDANCE WITH THE TMS 402/602 AND THE BUILDING CODE.

2. MATERIALS:

A. ALL CONCRETE MASONRY UNITS (CMU) SHALL BE TWO-CELL, LIGHTWEIGHT AGGREGATE UNITS WITH A SPECIFIED MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI ON NET AREA AT 28 DAYS CONFORMING TO ASTM C90.

B. ALL MORTAR SHALL BE TYPE "S" CONFORMING TO ASTM C270.

C. THE MINIMUM COMPRESSIVE STRENGTH (f'm) OF A PRISM ASSEMBLED OF CMU AND FULL MORTAR BEDDING SHALL BE 2000 PSI AT 28 DAYS ON THE NET AREA.

D. ALL GROUT SHALL CONFORM TO ASTM C476 WITH A MINIMUM GROUT COMPRESSIVE STRENGTH (fc) OF 2500 PSI.

E. REINFORCING STEEL SHALL MEET THE REQUIREMENTS OF ASTM A615, GR. 60.

F. CMU LOCATED BELOW GRADE SHALL BE NORMAL-WEIGHT AGGREGATE UNITS WITH ALL CELLS GROUTED SOLID.

G. ALL CMU SHALL BE IN RUNNING BOND.

3. HORIZONTAL WALL REINFORCING:

A. PROVIDE CONTINUOUS HORIZONTAL REINFORCING AT THE TOP OF THE WALL AND AT A MAXIMUM OF 4'-0" ON CENTER IN KNOCK-OUT BOND BEAMS UNLESS NOTED OTHERWISE. REINFORCING STEEL SHALL BE LAPPED PER THE CMU REINFORCING LAP TABLE.

B. PROVIDE HORIZONTAL REINFORCING AT THE HEAD OF ALL OPENINGS IN A "U" SHAPED SOLID BOTTOM LINTEL BLOCK. CUT OFF THE BOTTOM SHELL OF THE LINTEL BLOCKS AT VERTICAL REINFORCING LOCATION FOR JAMBS. PROVIDE HORIZONTAL REINFORCING AT THE SILL OF ALL OPENINGS IN A KNOCKOUT BOND BEAM. REINFORCING STEEL SHALL EXTEND BEYOND OPENING PER TYPICAL DETAILS.

C. MINIMUM HORIZONTAL REINFORCING IN ALL LINTELS AND BOND BEAMS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:

THICKNESS REINFORCING 8" (2) #4

4. VERTICAL REINFORCING:

A. PROVIDE VERTICAL REINFORCING (NORMAL REINFORCING) IN FULLY GROUTED CELLS, CENTERED AND HELD IN PLACE BY REINFORCING STEEL GUIDES IN ALL WALLS AS FOLLOWS, UNLESS NOTED OTHERWISE:

THICKNESS INTERIOR NON- EXTERIOR & LOAD BRG. WALLS 8" #5 AT 8" O.C. #5 AT 8" O.C.

B. PROVIDE VERTICAL FULLY GROUTED REINFORCED CELLS AT EACH SIDE OF AN ISOLATION JOINT, AT

INTERSECTIONS OF WALLS, EACH SIDE OF A WALL OPENING, AT EACH BEAM BEARING, AND AT THE END OF A WALL.C. VERTICAL REINFORCING SHALL EXTEND CONTINUOUSLY FROM THE TOP OF THE SUPPORTING MEMBER TO THE TOP BOND BEAM. THERE SHALL BE A DOWEL, CAST INTEGRAL WITH THE SUPPORTING MEMBER,

FOR EACH VERTICAL REINFORCING BAR EXCEPT AS NOTED. ALL VERTICAL REINFORCING STEEL SHALL BE

HOOKED INTO TOP BOND BEAM, ALL HOOKS, STRAIGHT EMBEDMENTS AND LAPS SHALL BE PER TABLE.

5. LOCATION AND DETAILS OF CONTROL AND ISOLATION JOINTS IN MASONRY WALLS SHALL BE PER THE ARCHITECTURAL DRAWINGS. IF NOT SHOWN OR NOTED ON THE ARCHITECTURAL DRAWINGS, THE MAXIMUM SPACING OF CONTROL OR ISOLATION JOINTS SHALL BE AT A LENGTH TO HEIGHT RATIO OF 2:1 OR 30'-0" O.C., WHICHEVER IS LESS. REINFORCING IN ALL BOND BEAMS, INCLUDING THE TOP BOND BEAM, SHALL BE DISCONTINUOUS AT CONTROL AND ISOLATION JOINTS. CONTRACTOR SHALL SUBMIT A JOINT LAYOUT PLAN FOR APPROVAL PRIOR TO CONSTRUCTION.

6. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING WALL ELEVATIONS AS PART OF THE SUBMITTAL. WALL ELEVATIONS SHALL INCLUDE HORIZONTAL AND VERTICAL REINFORCING, EMBEDS, CONTROL JOINTS, OPENINGS, ETC. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ALL OPENING LOCATION.

7. EMBEDDED CONDUIT, PIPES OR SLEEVES SHALL BE NO CLOSER THAN 3 DIAMETER ON CENTER OR DISPLACE

MORE THAN 2% OF THE NET AREA.

8. LOOSE LINTELS SUPPORTING MASONRY VENEERS, UNLESS NOTED OTHERWISE, SHALL BE:

OPENING WIDTH LINTEL

< 4'-0" L3 1/2X3 1/2X3/8

6'-4" > 4'-0" L6X3 1/2X3/8 (LLV)

8'-8" > 6'-4" L7X4X3/8 (LLV)

ALL LINTELS SHALL BEAR A MINIMUM OF 8" ON EACH END. EXTERIOR LINTELS SHALL BE GALVANIZED UNLESS NOTED OTHERWISE BY ARCHITECT.

Lee's Summit, Miss. 03/11/2025

CONSTRUCTIONAs Noted on Plans Review

1627 MAIN STREET, SUITE 600 KANSAS CITY, MO 64108



1627 MAIN STREET, SUITE 100 KANSAS CITY, MO 64108

EC AUTHORITY NUMBER: EGC 000465F

OISSOT

1301 BURLINGTON NORTH KANSAS CITY, MO 64116

1100 MAIN ST, STE 1800

KANSAS CITY, MO 64105

MII AIRPORI ATION TERMINAL T NO. - 17932172

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VESTO S
LOEHR
NUMBER
PE-2022000051
03/04/2025

MARK DATE DESCRIPTION

ISSUED FOR: FINAL REVIEW

PROJECT NO: 250104-000

REVIT FILE: 250104-000_STRUCT_R24.rvt

DESIGNED BY: JSH

DRAWN BY: DGC

CHECKED BY: MWK

APPROVED BY: WTL
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STRUCTURAL GENERAL NOTES

S-001

3/3/2025 4:44:00 PN

2. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII) AND THE EVALUATION REPORT (ER/ESR) SPECIFIED INCLUDING HOLE PREPARATION. TEMPERATURE AND MOISTURE CONDITIONS.

3. ADHESIVE ANCHORS:

- A. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL ANCHOR PRODUCTS SPECIFIED. THE CONTRACTOR MUST MAINTAIN TRAINING RECORDS OF ALL CONTRACTOR PERSONNEL INSTALLING ANCHORS AND SUBMIT TO THE ENGINEER OF RECORD PRIOR TO INSTALLING ANCHORS UPON REQUEST.
- B. ADHESIVE ANCHORS SHALL BE USED IN CONJUNCTION WITH THE APPROPRIATE ADHESIVE SYSTEM. STANDARD REINFORCING STEEL REBAR ANCHORED IN CONCRETE SHALL BE IN ACCORDANCE WITH ASTM A615 GRADE 60 UNLESS NOTED OTHERWISE. ALL THREADED ANCHORS SHALL BE IN ACCORDANCE TO ASTM F1554 GRADE 36 (OR BETTER) OR STAINLESS STEEL 304/316.
- C. APPROVED ADHESIVES FOR PREVIOUSLY CAST CONCRETE:

MANUFACTURER/PRODUCT	EVALUATION REPORT
HILTI HIT-HY200	ICC-ES ESR-3963
HILTI HIT-HY270 SAFE SET INSTALLATION	ICC-ES ESR-3187
HILTI HIT-RE 500 V3 SAFE SET INSTALLATION	ICC-ES ESR-2322/3814
SIMPSON STRONG-TIE SPEED CLEAN SET-3G	ICC-ES ESR-4057
SIMPSON STRONG-TIE SPEED CLEAN AT-3G	ICC-ES ESR-5026

D. APPROVED ADHESIVES FOR GROUTED MASONRY

ANUFACTURER/PRODUCT	EVALUATION REPOR
ILTI HIT-HY 200 SAFE SET	ICC-ES ESR-4143
IMPSON STRONG-TIE SPEED CLEAN SET-3G	ICC-ES ESR-4844

4. POWDER ACTUATED FASTENERS:

A. APPROVED ANCHORS FOR STEEL OR PREVIOUSLY CAST CONCRETE:

MANUFACTURER AND PRODUCT	EVALUATION REPORT
HILTI X-U (0.157" DIA., 1" EMBED)	ICC-ES ESR-2269

CONSTRUCTION DETAILS FOR STRUCTURAL MOVEMENT

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ACCOMMODATIONS IN GLAZING, ARCHITECTURAL FINISHES, PLUMBING, HVAC, AND ELECTRICAL ELEMENTS TO PREVENT DAMAGE DUE TO DEFLECTION OF ROOF, WALL AND FLOOR MEMBERS.

2	. VERTICAL DEFLECTIONS DUE TO GRAVITY LOADS:	LIVE/SNOW/WIND	TOTAL
	OPEN WEB ROOF JOISTS	L/360	L/240
	WIDE FLANGE ROOF BEAMS & GIRDERS	L/360	L/240
	SUPPORTING VERTICAL BRICK OR STONE		L/600 (0.3" MAX)
	SUPPORTING VERTICAL GLASS		L/480
	COMPOSITE FLOOR WIDE FLANGE BEAMS*	L/360	L/240

*AFTER THE FLOOR CONCRETE IS POURED. DO NOT ATTACH ANY ELEMENT TO A FLOOR SYSTEM BEFORE THE FLOOR SLAB IS POURED AND SHORING IS REMOVED

3. HORIZONTAL DEFLECTIONS OF INDIVIDUAL MEMBERS

WITH PLASTER OR STUCCO FINISHES

A. EXTERIOR WALLS	WIND OR SEISMIC
WITH PLASTER OR STUCCO FINISHES WITH BRICK OR STONE VENEER WITH GLASS FINISHES WITH METAL PANEL FINISHES	L/360 L/600 L/175 (MAX 3/4") L/180
B. INTERIOR WALLS	

VIBRATION

A. THIS STRUCTURE HAS NOT BEEN ANALYZED FOR VIBRATION CAUSED BY FOOTFALL, EQUIPMENT, ETC.

L/360

L/240

CONTRACT/CONSTRUCTION DOCUMENTS

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN A FULL SET OF THE MOST RECENT REVISIONS OF EACH DOCUMENT INCLUDING ALL PLANS, SPECIFICATIONS, ADDENDA, AND SUPPLEMENTAL INSTRUCTIONS.
- 2. THE CONTRACTOR SHALL REVIEW THE DOCUMENTS PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY MATERIALS FOR CONFLICTS. IF CONFLICTS OCCUR THE CONTRACTOR SHALL USE THE MOST STRINGENT REQUIREMENT OR REQUEST A CLARIFICATION THROUGH A REQUEST FOR INFORMATION (RFI).
- 3. THE DOCUMENTS MAY NOT BE REPRODUCED IN WHOLE OR IN PART FOR USE ON PROJECTS OTHER THAN IDENTIFIED IN THE TITLE BLOCK. SHOULD THE CONTRACTOR USE THE DOCUMENTS AS A PORTION OF A SHOP DRAWING SUBMITTAL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CONSEQUENCES RESULTING FROM ERRORS IN THE REPRODUCED **DOCUMENTS**
- 4. DETAILS LABELED TYPICAL ARE INTENDED TO REPRESENT A CONDITION THAT OCCURS AT SEVERAL LOCATIONS IN THE PLANS WHETHER OR NOT THE DETAIL IS REFERENCED.
- 5. DO NOT SCALE THE PLANS AND DETAILS FOR THE PURPOSE OF ESTABLISHING DIMENSIONS.

CONTRACTOR'S RESPONSIBILITY

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL SUB-CONTRACTOR SUBMITTALS AND NOTING ALL DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS PRIOR TO SUBMITTING TO THE ENGINEER FOR REVIEW.
- 2. SUBSTITUTION REQUESTS SHALL BE SUBMITTED IN WRITING WITH THE COST REDUCTION AMOUNT AND THE SCHEDULE IMPACT FOR THE OWNER (SUBMITTALS WITHOUT THE COST AND SCHEDULE IMPACT WILL NOT BE REVIEWED). A COMPARISON OF THE DATA WITH THE MATERIAL SPECIFIED INCLUDING CODE APPROVALS SHALL BE PROVIDED.
- 3. REQUESTS FOR INFORMATION (RFI) SHALL BE SUBMITTED IN WRITING WITH COST, SCHEDULE IMPACT, AND SUGGESTED SOLUTION INCLUDED. AN RFI THAT DOES NOT INCLUDE THE COST AND SCHEDULE IMPACT WILL NOT BE REVIEWED.
- 4. DEFECTIVE WORK REPORT (DWR) SHALL BE SUBMITTED TO THE ENGINEER. THE DWR SHALL REPORT THE DEFECT AND PROPOSE A REMEDIATION OF THE DEFECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE REMEDIATION OF THE DEFECT INCLUDING ENGINEERING COSTS. IF ANY.
- 5. WHEN THE CONTRACTOR BECOMES AWARE OF WHAT MAY BE AN UNFORESEEN CONDITION THAT COULD AFFECT COST OR SCHEDULE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING. AFTER REVIEW AND ENGINEER'S DETERMINATION THAT AN UNFORESEEN CONDITION EXISTS: THE CONTRACTOR SHALL SUBMIT A CHANGE ORDER REQUEST FOR APPROVAL WITH BOTH COST AND SCHEDULE IMPACT ATTACHED.
- 6. THE CONTRACTOR'S SCHEDULE MUST PROVIDE A REASONABLE TIME ALLOWANCE FOR THE ENGINEERING REVIEW AND APPROVAL.
- 7. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR SITE SAFETY. THE ENGINEER IS RESPONSIBLE FOR FOLLOWING THE CONTRACTOR'S CONSTRUCTION SITE SAFETY INSTRUCTIONS PROVIDED IN WRITING. ALTERNATELY, THE CONTRACTOR SHALL ASSIGN AN ESCORT TO ADVISE THE ENGINEER OF SITE SAFETY ISSUES DURING SITE VISITS. THE ENGINEER'S PURPOSE OF A SITE VISIT IS SOLELY TO BECOME FAMILIAR WITH THE GENERAL PROGRESS AND QUALITY OF THE PROJECT. THE ENGINEER'S SITE VISIT IS NOT A QUALITY CONTROL FUNCTION.

CONSTRUCTION MEANS AND METHODS ISSUES

- 1. SLAB ON GRADE AND ELEVATED SLABS ARE NOT DESIGNED TO SUPPORT CRANES, FORKLIFTS, TRUCKS, MANLIFTS, OR OTHER CONSTRUCTION RELATED EQUIPMENT UNLESS NOTED AS SUCH. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE IF CONSTRUCTION EQUIPMENT CAN BE SAFELY OPERATED ON THESE SLABS AND TO REPAIR ANY DAMAGE THE EQUIPMENT MAY CAUSE.
- 2. THE CONSTRUCTION DOCUMENTS REPRESENT A STABLE STRUCTURE IN THE COMPLETED FORM. THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY BRACING AND/OR SHORES TO SAFELY CONSTRUCT THE BUILDING AND PREVENT DAMAGE DURING CONSTRUCTION.
- 3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS OF EXISTING CONSTRUCTION THAT MAY AFFECT THE PROJECT AND REPORT DISCREPANCIES TO THE ENGINEER. ANY DIMENSIONS FOR ELEVATIONS THAT IMPACT NEW WORK SHALL BE VERIFIED PRIOR TO FABRICATION OF ANY MATERIAL. EXISTING BUILDING ELEMENTS THAT ARE TO BE ABANDONED THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE REMOVED.
- 4. WHEN A PIECE OF EQUIPMENT (HVAC, ELECTRICAL, KITCHEN, ETC.) IS PROVIDED THAT IS DIFFERENT THAN THE EQUIPMENT THAT THE STRUCTURE WAS DESIGNED FOR EITHER BY SIZE, WEIGHT OR CONFIGURATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE REMEDY OF THE SITUATION. THOSE COSTS SHALL INCLUDE THE ENGINEERING COSTS TO REDESIGN PORTIONS OF THE STRUCTURE TO ACCOMMODATE THE SUBSTITUTED EQUIPMENT.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRUCTURAL DESIGN AND MATERIALS FOR ATTACHING NON-STRUCTURAL ELEMENTS TO ANY PORTION OF THE STRUCTURE TO RESIST ALL LOADS, INCLUDING SEISMIC, IN A WAY THAT DOES NOT OVERSTRESS STRUCTURAL MEMBERS. NON-STRUCTURAL ELEMENTS CAN BE FOUND IN EACH OF THE OTHER DISCIPLINES (ARCHITECTURAL, MECHANICAL, ELECTRICAL, ETC.).

STRUCTURAL TESTS, INSPECTIONS, AND QUALITY ASSURANCE

P Perform these tasks for each weld joint or member.

1. ALL STRUCTURAL TESTS AND INSPECTIONS SHALL BE PERFORMED PER CHAPTER 17 OF THE BUILDING CODE WITH LOCAL SUPPLEMENTS, UNLESS MORE STRINGENT REQUIREMENTS ARE

INSPECTION OF STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONC. PLACEMENT

Inspection of Steel Elements of Composite Construction Prior to Concrete Placement	QUALITY CONTROL	QUALITY ASSURANCE
Placement and installation of steel deck	Р	Р
Placement and installation of steel headed stud anchors	Р	Р
Document acceptance or rejection of steel elements	Р	Р
Quality Control - Requirements on the part of the steel fabricator and erector. Quality Assurance - Requirements on the part of the project owner's representation.	itive.	

O Observe these items on a random basis. Operations need not be delayed pending these inspections

REQUIRED SPECIAL INSPECTIONS OF STEEL CONSTRUCTION OTHER THAN STRUCT STEEL

		. ———
ТҮРЕ	FREQUENCY	REFERENCED STANDARD
Material verification of cold-formed steel deck:		
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	Periodic	ASTM standards
b. Manufacturer's certified test reports.	Periodic	
2. Inspection of welding:		
a. Cold-formed steel deck:		
Floor and roof deck welds.	Periodic	AWS D1.3

REQUIRED QUALITY ASSURANCE PROTOCOL FOR MASONRY CONSTRUCTION

REQUIRED FOR

QUALITY ASSURANCE(a)

Level 1 | Level 2 | Level 3

R R R

NR R R

REFERENCE FOR CRITERIA

TMS 602

MINIMUM VERIFICATION REQUIREMENTS

specifically exempted by the Code.	NR	R	R		Art. 1.4 B
During construction, verification of Slump flow and Visual Stability Index (VSI) when self-consolidating grout is delivered to the project site.	NR	R	R		Art. 1.5 & 1.6.3
During construction, verification of f'm and f'AAC for every 5,000 sq. ft (465 sq. m).	NR	NR	R		Art. 1.4 B
During construction verification of proportions of materials as delivered to the project site for premixed or preblended mortar, prestressing grout, and grout other than self-consolidation grout.	NR	NR	R		Art. 1.4 B
MINIMUM SPECIA	L INSPE	CTION			
Inspection Task	FR	EQUENC	Y (b)	REFERENCE F	OR CRITERIA
·	Level 1	Level 2	Level 3	TMS 402	TMS 602
1. As masonry construction begins, verify that the following are in compliance:					
a. Proportions of site-prepared mortar	NR	Р	Р		Art. 2.1, 2.6 A & 2.6 C
b. Grade and size of prestressing tendons and anchorages	NR	Р	Р		Art. 2.4B & 2.4 H
 Grade, type and size of reinforcement, connectors, anchor bolts, and prestressing tendons and anchorages 	NR	Р	Р		Art. 3.4 & 3.6 A
d. Prestressing technique	NR	Р	Р		Art. 3.6 B
e. Properties of thin-bed mortar for AAC masonry	NR	C(c)/P(d)	С		Art. 2.1 C.1
f. Sample panel construction	NR	Р	С		Art. 1.6 D
2. Prior to grouting, verify that the following are in compliance:					
a. Grout space	NR	Р	С		Art. 3.2 D & 3.2 F
b. Placement of prestressing tendons and anchorages	NR	Р	Р	Sec. 10.8 & 10.9	Art. 2.4 & 3.6
c. Placement of reinforcement, connectors, and anchor bolts	NR	Р	С	Sec. 6.1, 6.3.1, 6.3.6 & 6.3.7	Art. 3.2 E & 3.4
d. Proportions of site-prepared grout and prestressing grout for bonded tendons	NR	Р	Р		Art. 2.6 B & 2.4 G.1.b
3. Verify compliance of the following during construction:					
a. Materials and procedures with the approved submittals	NR	Р	Р		Art. 1.5
b. Placement of masonry units and mortar joint construction	NR	Р	Р		Art. 3.3 B
c. Size and location of structural members	NR	Р	Р		Art. 3.3 F
d. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction	NR	Р	С	Sec. 1.2.1 (e), 6.2.1 & 6.3.1	
e. Welding reinforcement	NR	С	С	Sec. 6.1.6.1.2	
f. Preparation, construction, and protection of masonry during cold weather (temperature below 40°F(4.4°C)) or hot weather (temperature above 90°F (32.2°C))	NR	Р	Р		Art. 1.8 C & 1.8 D
g. Application and measurement of prestressing force	NR	С	С		Art. 3.6 B
h. Placement of grout and prestressing grout for bonded tendons is in compliance	NR	С	С		Art. 3.5 & 3.6 C
i. Placement of AAC masonry units and construction of thin-bed mortar joints	NR	C(c)/P(d)	С		Art. 3.3 B.9, & 3.3 F.1.b
					Art. 1.4 B.2.a.3,

(a) R = Required, NR = Not Required

(b) Frequency refers to the frequency of inspection, which may be continuous during the task listed or periodically during the listed task, as defined in the table. NR = Not Required, P = Periodic, C = Continuous

NR P C

(c) Required for the first 5000 square feet (465 square meters) of AAC masonry

Minimum Verification

Prior to construction, verification of compliance of submittals

Prior to construction verification of f'_m and f'_{AAC} except where

(d) Required after the first 5000 square feet (465 square meters) of AAC masonry

4. Observe preparation of grout specimens, mortar specimens, and/or prisms

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

TYF	PE	FREQUENCY	STANDARD	REFERENCE
Inspect reinforcement, including tendons, and verify placement.	g prestressing	Periodic	ACI 318 Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
 Reinforcing bar welding: Verify weldability of reinfor ASTM A706 Inspect single-pass fillet welds. 		Periodic Periodic Continuous	AWS D1.4 ACI 318: 26.6.4	
3. Inspect anchors cast in concret	е.	Periodic	ACI 318: 17.8.2	
 Inspection of anchors post instance members.^b Adhesive anchors installed inclined orientations to rest. Mechanical anchors and a defined in 4.a. 	d in horizontally or upwardly ist sustained tension loads.	Continuous Periodic	ACI 318: 17.8.2.4 ACI 318: 17.8.2	
5. Verify use of required design m	ix.	Periodic	ACI318: Ch.19, 26.4.3, 26.4.4	1904.1, 1904.2 1908.2, 1908.3
6. Prior to concrete placement, fal strength tests, perform slump a determine the temperature of the	nd air content tests, and	Continuous	ASTM C172, ASTM C31, ACI 318: 26.5, 26.12	1908.10
7. Inspection of concrete and shot proper application techniques.	tcrete placement for	Continuous	ACI 318: 26.5	1908.6, 1908.7, 1908.8
Verify maintenance of specified and techniques.	curing temperature	Periodic	ACI 318: 26.5.3-26.5.5	1908.9
 Inspection of prestressed concr a. Application of prestressing b. Grouting of bonded prestressing 	forces; and	Continuous Continuous	ACI 318: 26.10 ACI 318: 26.10	
10. Inspect erection of precast cor	ncrete members.	Periodic	ACI 318: Ch. 26.9	
 Verify in-situ concrete strength tendons in post-tensioned con of shores and forms from bear 	crete and prior to removal	Periodic	ACI 318: 26.11.2	
 Inspect formwork for shape, lo dimensions of the concrete me 		Periodic	ACI 318: 26.11.1.2(b)	

(b) Specific requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with 17.8.2 in ACI 318, or other qualification procedures. Where specific requirements are not provided, special inspection requirements shall be specified by the registered design

professional and shall be approved by the building official prior to the commencement of the work.

REQUIRED SPECIAL INSPECTIONS OF OPEN-MED STEEL INISTS AND INIST CIDDEDS

WEB STEEL JUISTS AND JUIST	GIRDER	75
TYPE	FREQUENCY	REFERENCED STANDARD
1. Installation of open-web steel joists and joist girders.		
a. End connections - welding or bolted.	Periodic	SJI spec listed in Section 2207.1.
b. Bridging - horizontal or diagonal.		
Standard bridging	Periodic	SJI spec listed in Section 2207.1.
2. Bridging that differs from the SJI specifications listed in Section 2207.1.	Periodic	

REQUIRED SPECIAL INSPECTIONS AND TESTS OF STRUCTURAL STEEL FOR WELDING PROCESS

CONTROL ASSURANCE

РР

Inspection Tasks Prior to Welding

	Welding procedure specifications (WPSs) available	P	Р
Art. 1.5	Manufacturer certifications for welding consumables available	P	P
Art. 1.4 B	Material identification (type/grade)	0	0
7	Welder identification system ¹	0	0
Art. 1.5 & 1.6.3	Fit-up of groove welds (including joint geometry)	0	U
Art. 1.4 B	 Joint preparation Dimensions (alignment, root opening, root face, bevel) 		
Art. 1.4 B	 Cleanliness (condition of steel surfaces) Tacking (tack weld quality and location) Backing type and fit (if applicable) 	0	0
	Configuration and finish of access holes	0	0
FOR CRITERIA	Fit-up of fillet welds		
TMS 602	 Dimensions (alignment, gaps at root) Cleanliness (condition of steel surfaces) Tacking (tack weld quality and location) 	0	0
Art. 2.1, 2.6 A & 2.6 C	Check welding equipment	0	
Art. 2.4B & 2.4 H	Check welding equipment	QUALITY	QUALITY
Art. 3.4 & 3.6 A	Inspection Tasks During Welding	CONTROL	ASSURANCE
Art. 3.6 B	Use of qualified welders	0	0
Art. 2.1 C.1	Control and handling of welding consumables		
Art. 1.6 D	PackagingExposure Control	0	0
AIL I.O D	No welding over cracked tack welds	0	0
	Environmental conditions	0	0
Art. 3.2 D & 3.2 F	Wind speed within limits	0	0
Art. 2.4 & 3.6	Precipitation and temperature		
Art. 3.2 E & 3.4	WPS followed		
Art. 2.6 B & 2.4 G.1.b	 Settings on welding equipment Travel speed 		
Art. 1.5	Selected welding materials	0	0
Art. 3.3 B	Shielding gas type/flow rate		
Art. 3.3 F	Preheat applied Interpreted to the property of the prope		
741. 0.01	Interpass temperature maintained (min/max)Proper position (F, V, H, OH)		
	Welding Techniques		
	Interpass and final cleaning	0	0
Art. 1.8 C & 1.8 D	Each pass within profile limitations Each pass mosts quality requirements.		
	Each pass meets quality requirements	OHALITY	OHALITY
Art. 3.6 B	Inspection Tasks After Welding	QUALITY CONTROL	QUALITY ASSURANCE
Art. 3.5 & 3.6 C	Welds cleaned	0	0
Art. 3.3 B.9, & 3.3 F.1.b	Size, length and location of welds	P	P
Art. 1.4 B.2.a.3,	Welds meet visual acceptance criteria	ſ	ľ
1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3 & 1.4 B.4	Crack prohibition		
D.0 W 1.4 D.4	Weld/base-metal fusion		
in the table.	Crater cross section	Р	Р
	Weld profiles	ľ	'
	Weld sizeUndercut		
	Porosity		
	Arc strikes	Р	Р
	k-area ²	P	Р
	Backing removed and weld tabs removed (if required)	P	P
	packing removed and well labs removed (in required)		
	Popair activities	ח	1)
	Repair activities Document acceptance or rejection of welded joint or member	P P	P P

P Perform these tasks for each weld joint or member. O Observe these items on a random basis. Operations need not be delayed pending these inspections 1 The fabricator or erector, as applicable, shall maintain a system by which a welder who has welded a joint or

member can be identified. Stamps, if used, shall be the low-stress type. 2 When welding of doubler plates, continuity plates or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks within 3 inches (75 mm) of the weld.

REQUIRED SPECIAL INSPECTIONS AND TESTS OF STRUCTURAL STEEL FOR BOLTING PROCESS

STRUCTURAL STEEL FOR BOLTIN	GPNOC	
Inspection Tasks Prior to Bolting	QUALITY CONTROL	QUALITY ASSURANCE
Manufacturer certifications available for fastener materials	0	Р
Fasteners marked in accordance with ASTM requirements	0	0
Proper fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane)	0	0
Proper bolting procedure selected for joint detail	0	0
Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements	0	0
Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used	Р	0
Proper storage provided for bolts, nuts, washers and other components	0	0
Inspection Tasks During Bolting	QUALITY CONTROL	QUALITY ASSURANCE
Fastener assemblies, of suitable condition, placed in all holes and washers (if required) are positioned as required	0	0
Joint brought to the snug-tight condition prior to the pretensioning operation	0	0
Fastener component not turned by the wrench prevented from rotating	0	0
Fasteners are pretentioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges	0	0
Inspection Tasks After Bolting	QUALITY CONTROL	QUALITY ASSURANCE
Document acceptance or rejection of bolted connections	Р	Р

Quality Control - Requirements on the part of the steel fabricator and erector. Quality Assurance - Requirements on the part of the project owner's representative. P Perform these tasks for each weld joint or member.

O Observe these items on a random basis. Operations need not be delayed pending these inspections

REQUIRED SPECIAL INSPECTIONS AND TECTO OF COIL C

AND TESTS OF SOILS	
TYPE	FREQUENC
Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	Periodic
2. Verify excavations are extended to proper depth and have reached proper material.	Periodic
Perform classification and testing of compacted fill materials.	Periodic
4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	Continuous
5. Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly.	Periodic

Special Inspection Additional Requirements:

- Additional items that need special inspection, in the opinion of the building official, shall be inspected. Coordination of Special Inspections with construction of the inspected items shall be the responsibility of the
- If Special Inspection is waived by the Authority having Jurisdiction, the general contractor shall provide the designer of record with a copy of the written exemption for each item that has been waived. • The building official may perform inspections in addition to and/or concurrently with the Special Inspection's
- outlined in the tables. • The general contractor is responsible for implementing a quality control program. The quality control program is in addition to the Special Inspection requirements and must meet or exceed those responsibilities required as part of the contract drawings and specifications.

Lee's Summit, Miss

CONSTRUCTION As Noted on Plans Review

1627 MAIN STREET, SUITE 600

1627 MAIN STREET, SUITE 100

KANSAS CITY, MO 64108





1301 BURLINGTON NORTH KANSAS CITY, MO 64116

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APPROVED BY: WTL COPYRIGHT 2025 SHEET TITLE

DRAWN BY: DGC

CHECKED BY: MWK

GENERAL NOTES AND **IBC INSPECTION TABLES**

1. TOP OF CONC. AT INTERIOR FOUNDATIONS IS 99' - 4"

UNLESS NOTED OTHERWISE

2. TOP OF CONC. AT EXTERIOR FOUNDATIONS IS 99' - 4" UNLESS NOTED OTHERWISE



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1627 MAIN STREET, SUITE 100 KANSAS CITY, MO 64108





1301 BURLINGTON NORTH KANSAS CITY, MO 64116

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PROJECT NO: 250104-000

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DESIGNED BY: JSH

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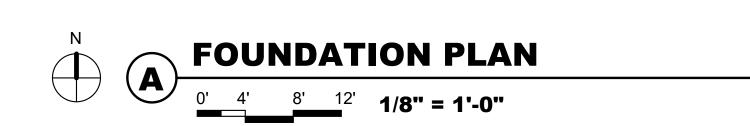
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SHEET TITLE

FOUNDATION PLAN



25' - 0"

T.O. GB 99' - 4" TYP.

4 5

| 5' - 0"

57' - 0"

25' - 0"

HSS5X5X1/2

____4" CONC. SLAB W/ #3 @ _

T.O. CONC. EL. 100' - 0"-

12" O.C. EA. WAY

30' - 0"

S.J. TYP.

—4" CONC. SLAB W/ #3 @

12" O.C. EA. WAY T.O. CONC. EL. 100' - 0"

25' - 0"

HSS5X5X3/8

-GRADE BEAM

-IN-FLOOR HEATER SYSTEM.

12' - 6"

8' - 6"

8' - 0"

12' - 6"

8' - 6"

T.O. FTG. 99' - 0"

TYP OF 5 AT

CANOPY /

25' - 0"

24' - 0"

23' - 0"

10' - 7"

\T.O. GB 99' - 4"

T.O. FTG. 98' - 6"

TYP OF 4 AT CANOPY

18' - 0"

20' - 0"

HSS5X5X5/16

HSS5X5X1/4

| 19' - 0"

13' - 0"

1' - 0"

1' - 0"

HSS5X5X1/4

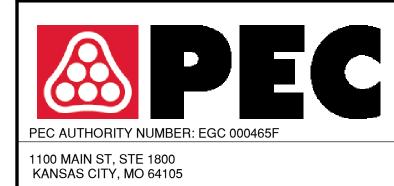
—4" CONC. SLAB W/ #3 @ 12" O.C. EA. WAY T.O. CONC. EL. 100' - 0"

16' - 8" 1' - 11" 1" 9' - 11"

75' - 0"

117 - 1"







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PROJECT NO: 250104-000 REVIT FILE: 250104-000_STRUCT_R24.rvt

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MEZZANINE AND LOW ROOF FRAMING PLAN

S-102



25' - 0"

SCREENWALL POST,

W18X35

W18X35

113' - 7"

W18X35

L2X2X1/4, REF. 2/S-553 TYP.-

1-1/2" 22 GA. STEEL ROOF DECK,-

W14X22 [©]

─6" CONC. SLAB W/ #4 @ 12"

COMP. STEEL DECK, T.O. CONC. EL. 113' - 8 1/2"

O.C. EA. WAY OVER 2" 20 GA.

10' - 0"

----1-1/2" 22 GA. STEEL ROOF DECK, REF. GEN. NOTES

113' - 2 1/2"

W14X22 (18)

20' - 0"

117' - 1"

W18X35 113' - 7"

18' - 0"

W16X26

-W14X22 113' - 7

~W14X22 113' - 7"

~W14X22|113' - 7"

18' - 0"

-1-1/2" 22 GA. STEEL

ROOF DECK, REF. GEN. NOTES

5' - 5" | 5' - 0" | 5' - 2" | 5' - 0" | 3"

TAPERED

W24X68

1-1/2" 22 GA. STEEL ROOF DECK,

REF. GEN. NOTES

10' - 7"

25' - 0"

113' - 7"

W18X35

W18X35 113' - 7"

W14X22 113' - 7"

W14X22 (2)— 113' - 2 1/2"

3 S-554 100 LBS W14X22 CU-1 AND CU-2 1,000 LBS

—3' - 1 1/2"

—5" CONC. SLAB W/ #4 @ 12" O.C. EA. WAY OVER 2" 20 GA. COMP. STEEL DECK, T.O. CONC. EL. 114' - 0"

_W16X26__ 113' - 7"

W16X26

REF. GEN. NOTES

25' - 0"

1-1/2" 22 GA. STEEL ROOF DECK,

6' - 0" | 6' - 0" | 6' - 0" | 5' - 9"

8' - 6"

W10X15

W10X15

W10X15

W10X17

(H.5)—

1-1/2" 22 GA. STEEL ROOF DECK, PREF. GEN. NOTES

30' - 0"

W16X26

113' - 7"

REF. GEN. NOTES

113' - 7"

₩16X26 (30)-113' - 7"

W21X44 (30)

113' - 7"

W16X26 (25) 113' - 7"

> 113' - 7" W16X26

113' - 7"

₹ W16X26 (25) /

W16X26 (25)

-HSS8X6X1/4 113' - 10 1/2"

-HSS8X6X1/4 113' - 10 1/2"

HSS6X2X5/16 111' - 4" |

W10X12

112' - 1 3/4"

W10X12

112' - 1 3/4"

112' - 1 3/4"

12' - 6"

W21X44 113' - 7"

-HSS6X2X5/16 111' - 4"

112' - 1 3/4" ్ల్ ్

W10X15 →

112' - 1 3/4" 💺

12' - 6"

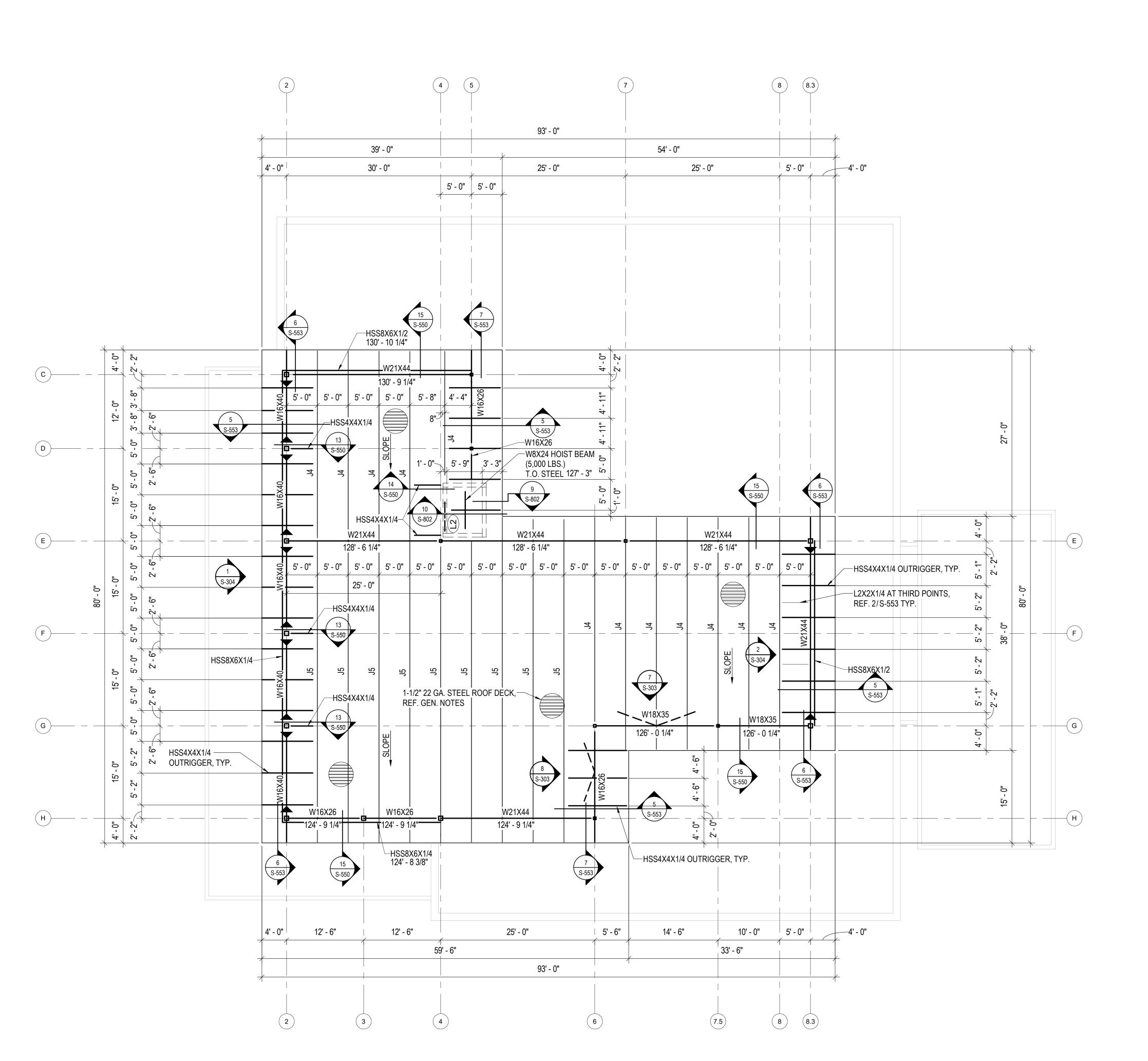
112' - 1 3/4" C10X15.3

8' - 6"

—1-1/2" 22 GA. STEEL ROOF DECK,

113' - 7"

25' - 0"





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1627 MAIN STREET, SUITE 600 KANSAS CITY, MO 64108



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TERMINAL - 17932172



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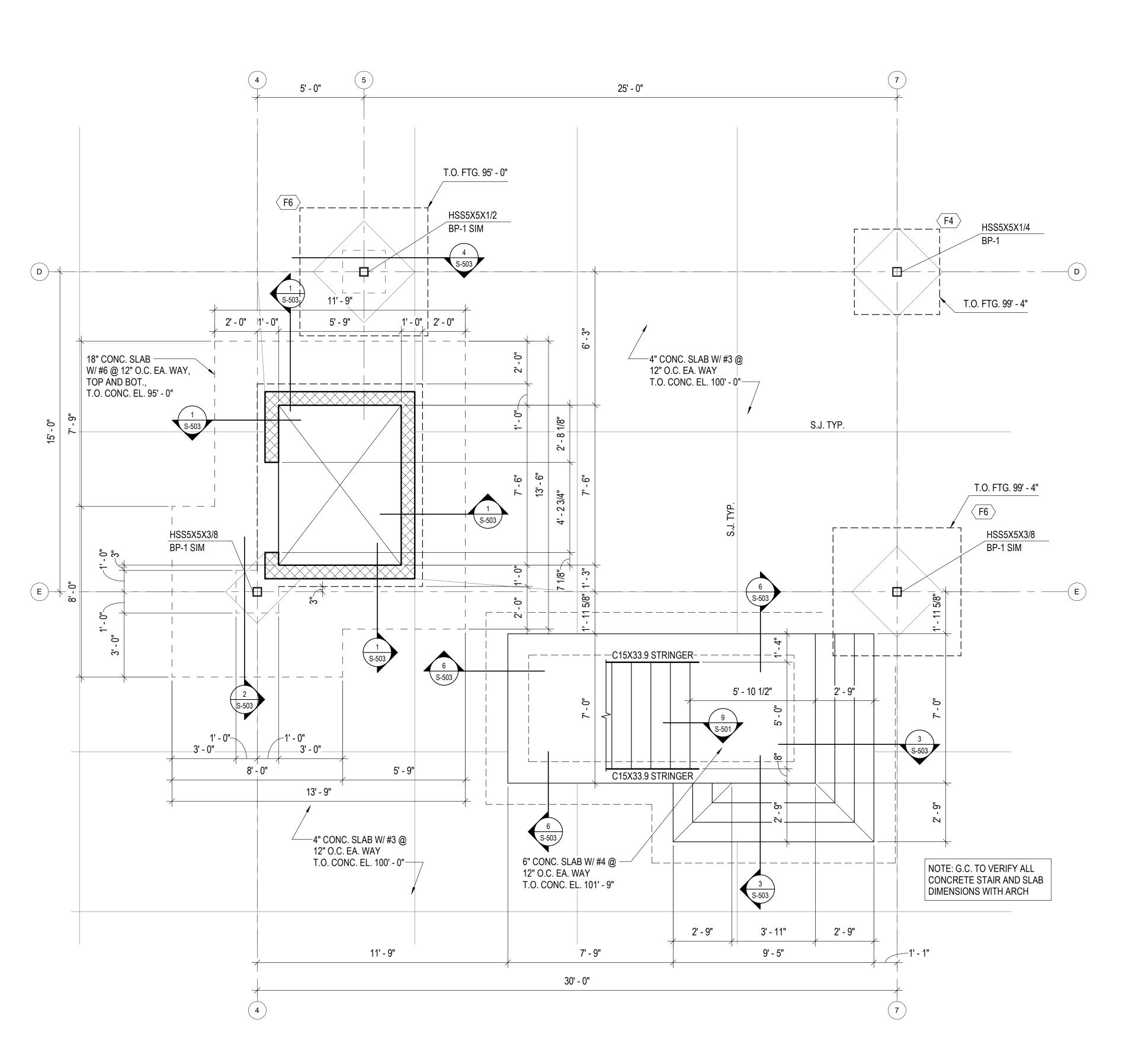
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HIGH ROOF FRAMING PLAN







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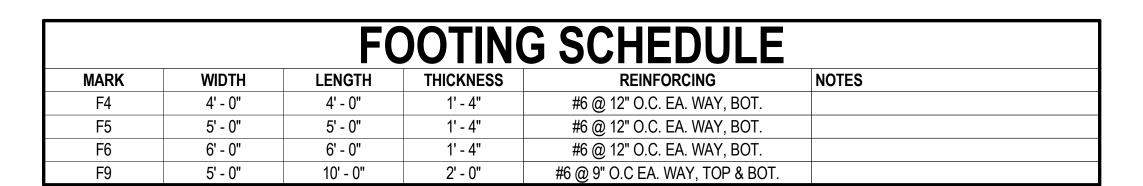
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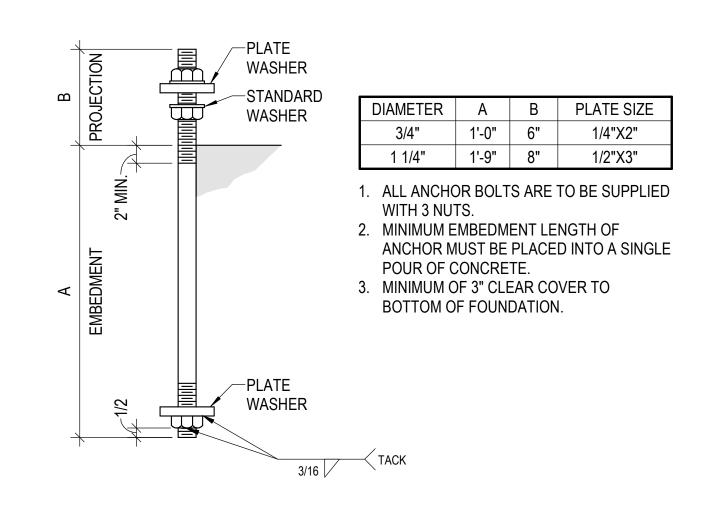
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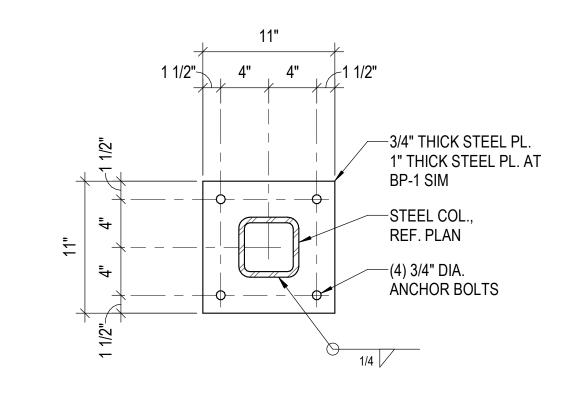
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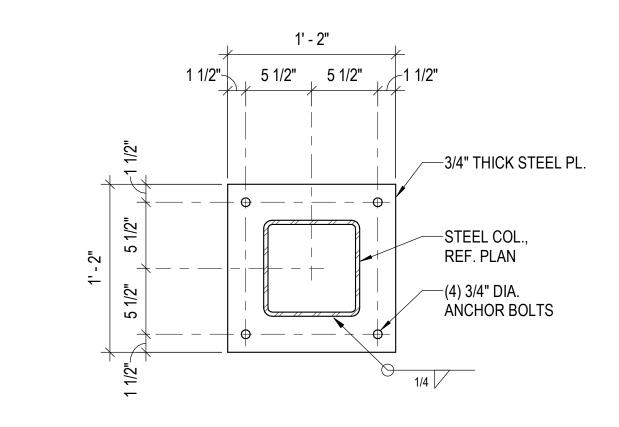
ENLARGED PLAN



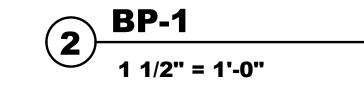
	GRADE BEAM SCHEDULE									
MARK	WIDTH	HEIGHT	REINFORCING	NOTES						
GB1	2' - 0"	3' - 0"	(3) #5 CONT. TOP & BOT. W/ #3 STIRRUPS @ 12" O.C.							
GB2	2' - 6"	3' - 0"	(4) #5 CONT. TOP & BOT. W/ #3 STIRRUPS @ 12" O.C.							
GB3	3' - 0"	3' - 0"	(5) #5 CONT. TOP & BOT. W/ #3 STIRRUPS @ 12" O.C.							
GB4	1' - 0"	3' - 0"	(2) #5 CONT. TOP & BOT. W/ #3 STIRRUPS @ 12" O.C.							
GB5	3' - 0"	1' - 4"	(4) #5 CONT. TOP & BOT. W/ #3 STIRRUPS @ 12" O.C.							
GB6	4' - 0"	1' - 4"	(5) #5 CONT. TOP & BOT. W/ #3 STIRRUPS @ 12" O.C.							

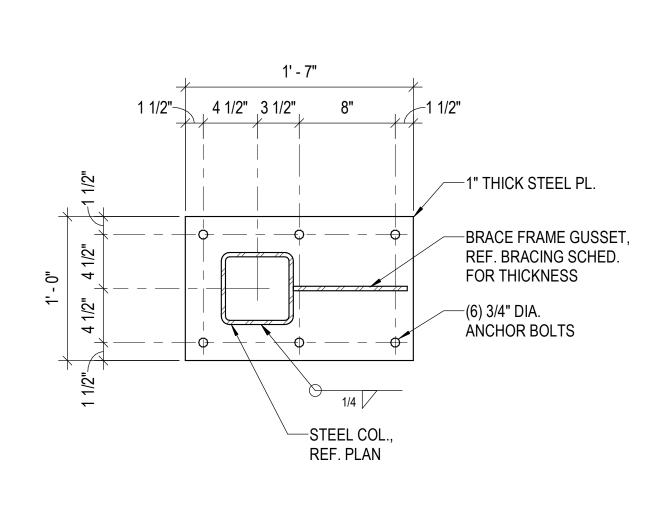


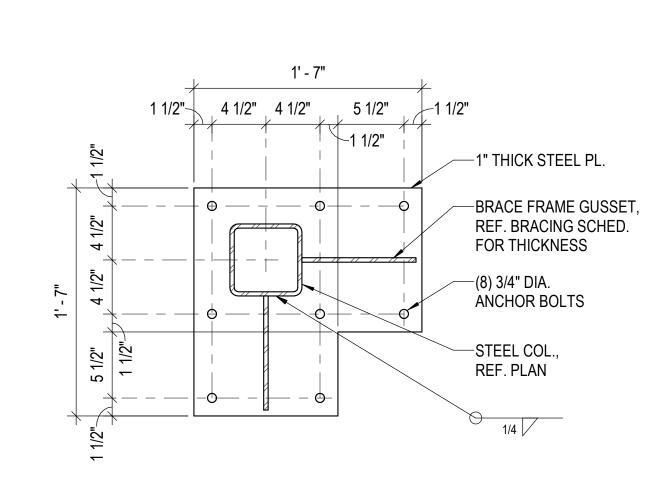


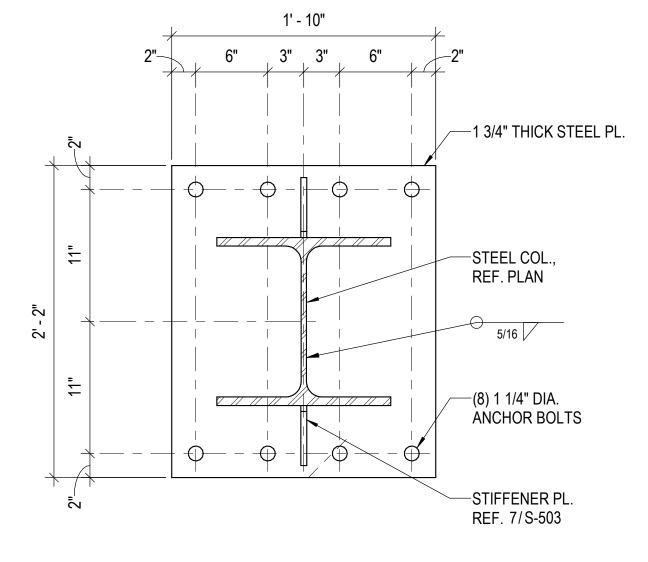




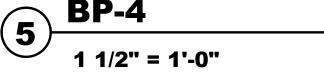


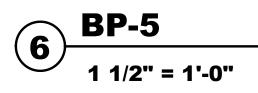






4 BP-3
1 1/2" = 1'-0"







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1301 BURLINGTON NORTH KANSAS CITY, MO 64116

IRPOR' **TERMINAL** - 17932172

GENERAL AVIATION CITY PROJECT NO.



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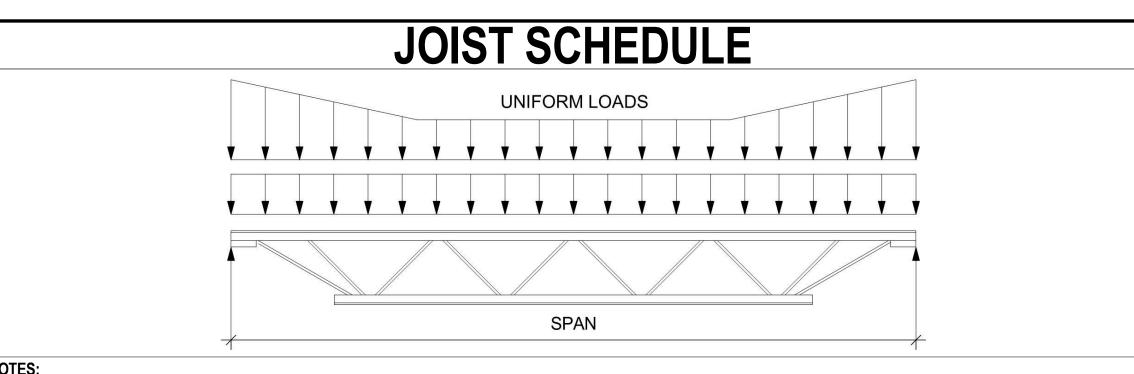
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SCHEDULES AND

S-301

DETAILS

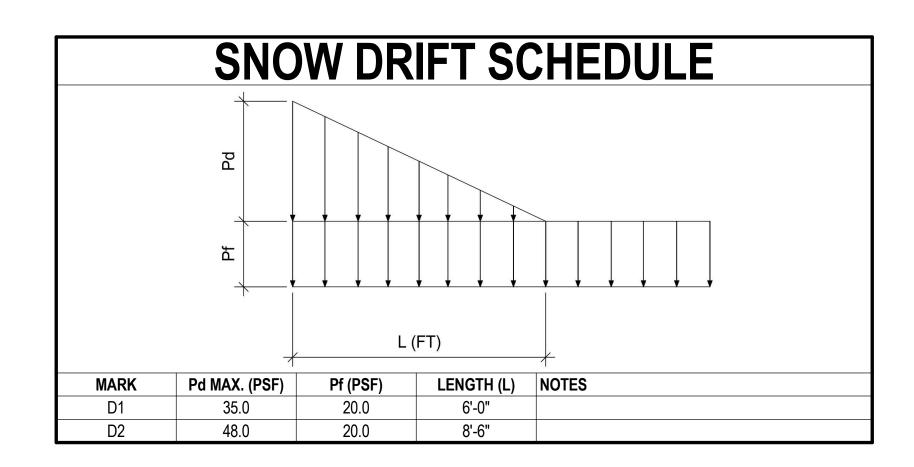


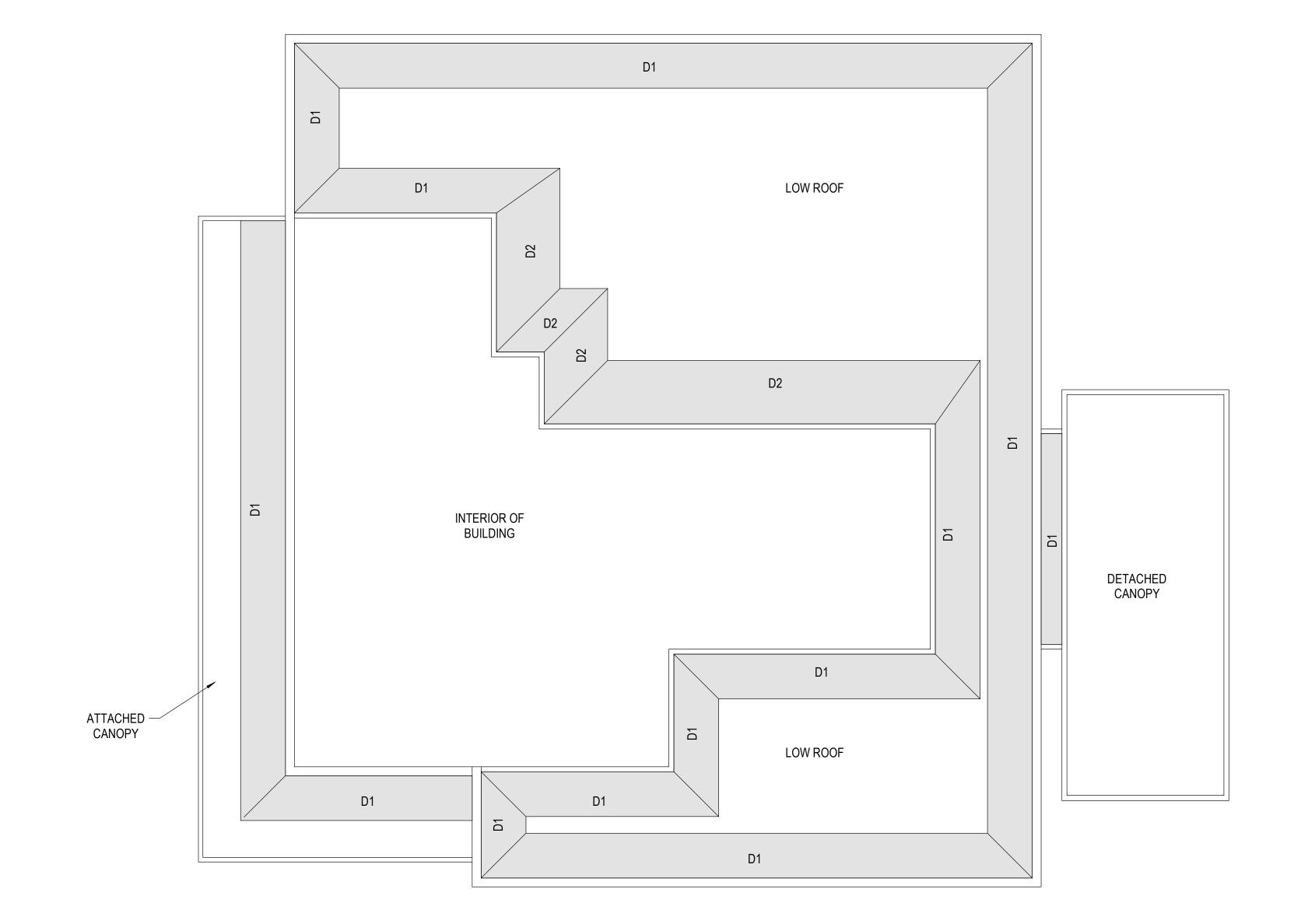
REF. THE DELEGATED ENGINEERING OF STRUCTURAL COMPONENTS & SYSTEMS SECTION OF THE GENERAL NOTES FOR ADDITIONAL JOIST REQUIREMENTS.

- DESIGN JOISTS FOR THE CODE MANDATED GRAVITY AND LATERAL LOADS, REF. GENERAL NOTES, PLANS, AND DETAILS FOR LOADING CRITERIA. DESIGN JOISTS FOR SNOW DRIFT, REF. GENERAL NOTES AND SNOW DRIFT TABLE.
- DESIGN JOISTS FOR POSITIVE AND NEGATIVE (UPLIFT) WIND LOADS, REF. GENERAL NOTES AND COMPONENTS & CLADDING TABLE. DESIGN JOISTS FOR A 2250# ALLOWABLE ROLLOVER FORCE ACROSS THE JOIST SEAT.
- DESIGN JOISTS FOR TOP CHORD UNFACTORED ALLOWABLE (1.0W U.N.O.) AXIAL TENSION/COMPRESSION AS NOTED ON THE PLANS (T/C=?.?K).
- REF. ALL PROJECT DESIGN PLANS AND DETAILS FOR ADDITIONAL POINT LOADS ON JOISTS (ARCH., MECH., ELEC., ETC.).
- JOIST DESIGNER MAY CAMBER FOR THE DEAD LOAD OF THE JOIST ONLY. NO ADDITIONAL CAMBER MAY BE USED.
- REF. THE MOVEMENT AND SERVICEABILITY SECTION OF THE GENERAL NOTES FOR MINIMUM JOIST DEFLECTION REQUIREMENTS.

10 REE PLAN AND DETAILS FOR JOIST CHORD EXTENSIONS WHERE APPLICABLE

IU. REF. PLAN AI	AD DETAILS FOR 1	OIST CHORD EXT	ENSIONS, WHERE	APPLICABLE.	
TYPE	TYPE DEPTH	SERIES	SEAT	DEPTH	NOTES
ITPE	DEFIN	SERIES	LEFT	RIGHT	NOTES
J1	12"	K	2 1/2"	2 1/2"	
J2	18"	K	2 1/2"	2 1/2"	
J3	22"	K	2 1/2"	2 1/2"	
J4	22"	K	4"	4"	
J5	30"	K	4"	4"	





SNOW DRIFT PLAN NO SCALE



CONSTRUCTION
As Noted on Plans Review

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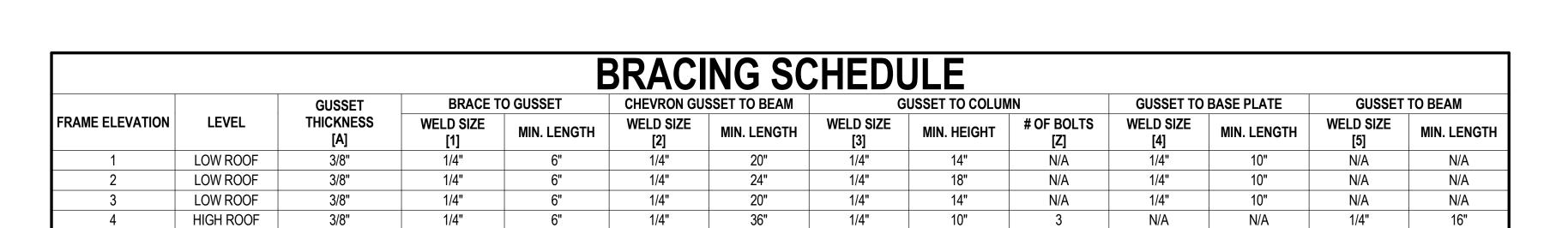
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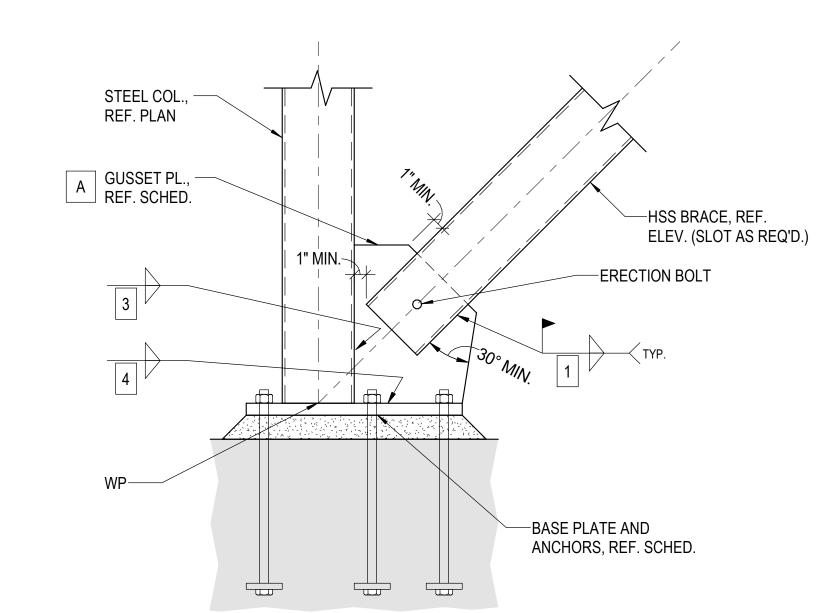
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S-302

DETAILS



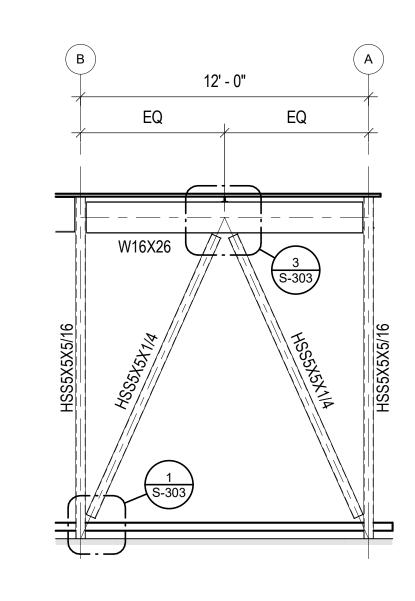
1/4"



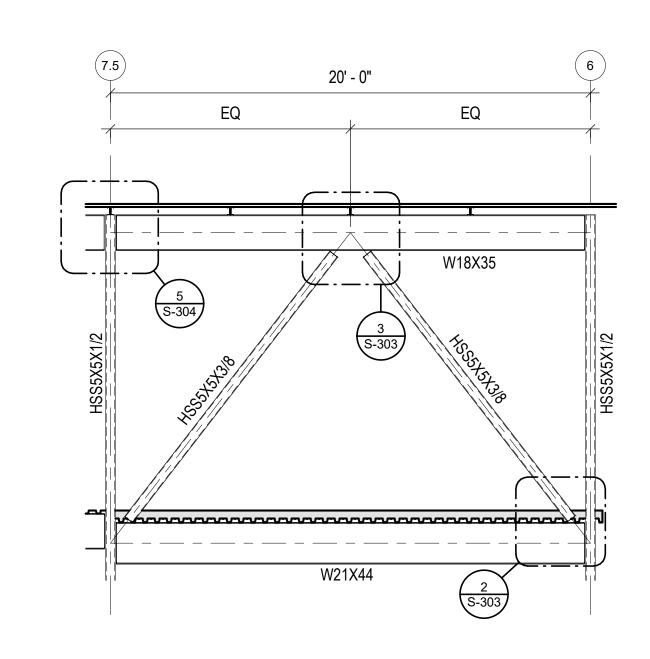
1/4"

HIGH ROOF

BRACE FRAME AT BASE PLATE NO SCALE



BRACE FRAME ELEVATION 1 - GRID 7

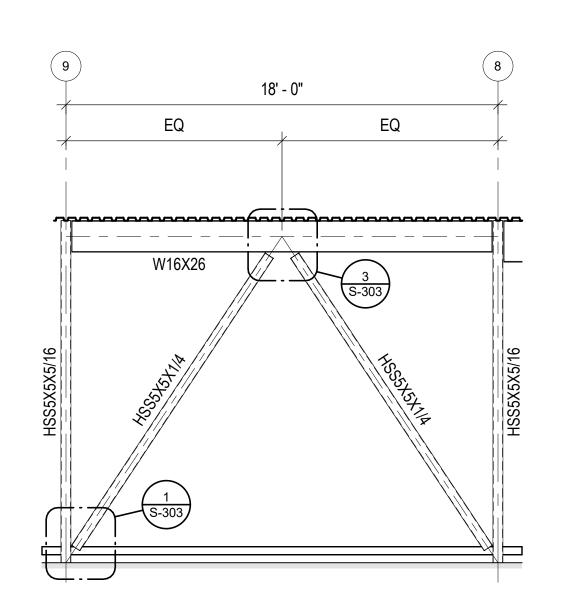


BRACE FRAME ELEVATION 4 - GRID G

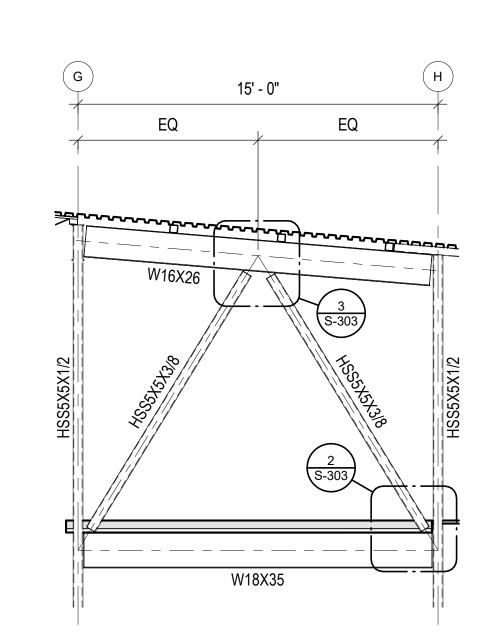
TYP. BEAM TO -COL. CONN. -STEEL COL., REF. PLAN ERECTION BOLT-3/4" DIA. BOLT, TYP., —HSS BRACE, REF. ELEV. (SLOT AS REQ'D.)

1/4"

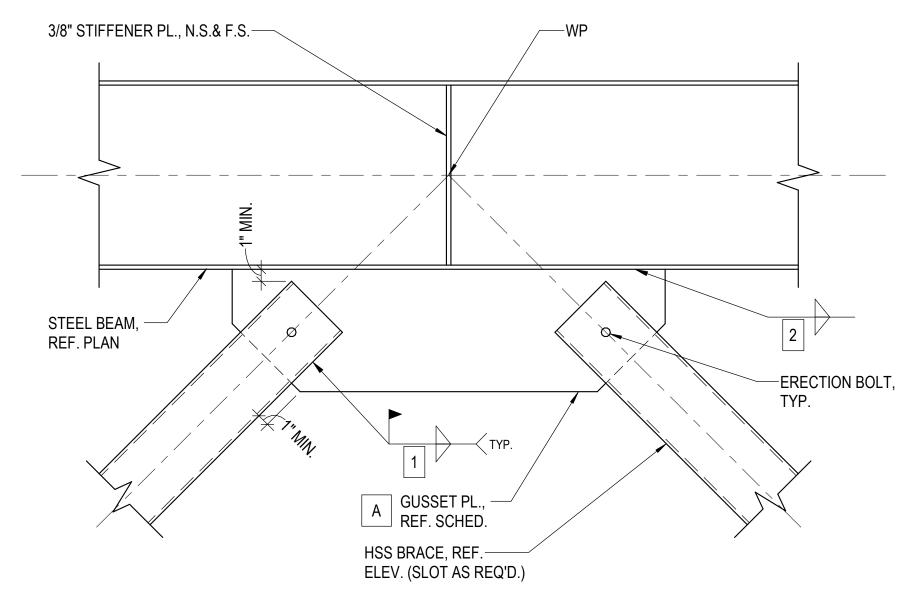
BRACE FRAME AT COL./BEAM



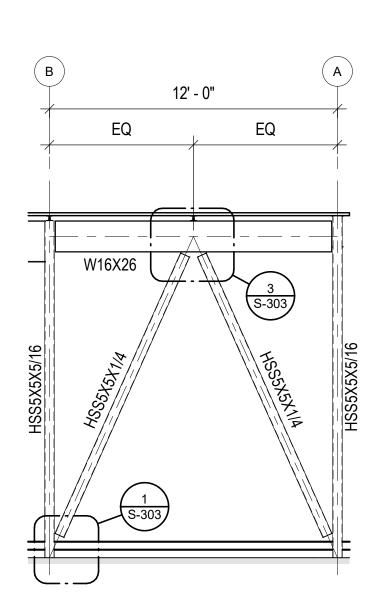
5 BRACE FRAME ELEVATION 2 - GRID A



BRACE FRAME ELEVATION 5 - GRID 6



BRACE FRAME AT BEAM



BRACE FRAME ELEVATION 3 - GRID 9



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1627 MAIN STREET, SUITE 600 KANSAS CITY, MO 64108





1100 MAIN ST, STE 1800 KANSAS CITY, MO 64105



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TERMINAL - 17932172

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BRACE FRAME SCHEDULE AND **DETAILS**

1627 MAIN STREET, SUITE 600 KANSAS CITY, MO 64108



1627 MAIN STREET, SUITE 100 KANSAS CITY, MO 64108





1301 BURLINGTON NORTH KANSAS CITY, MO 64116

TERMINAL - 17932172 GENERAL AVIATION CITY PROJECT NO.

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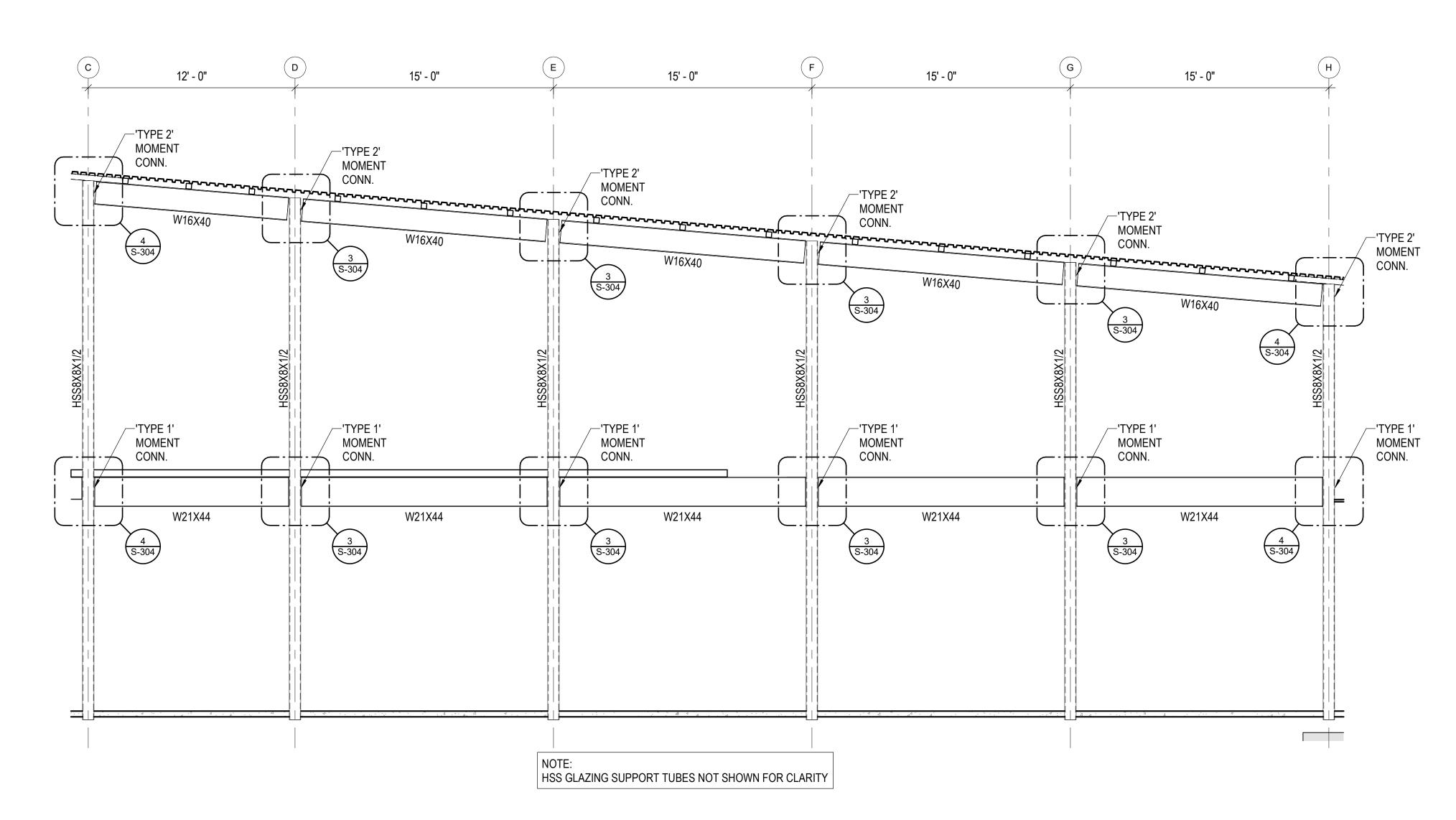
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LEE'S

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MOMENT FRAME **ELEVATIONS AND DETAILS**

S-304



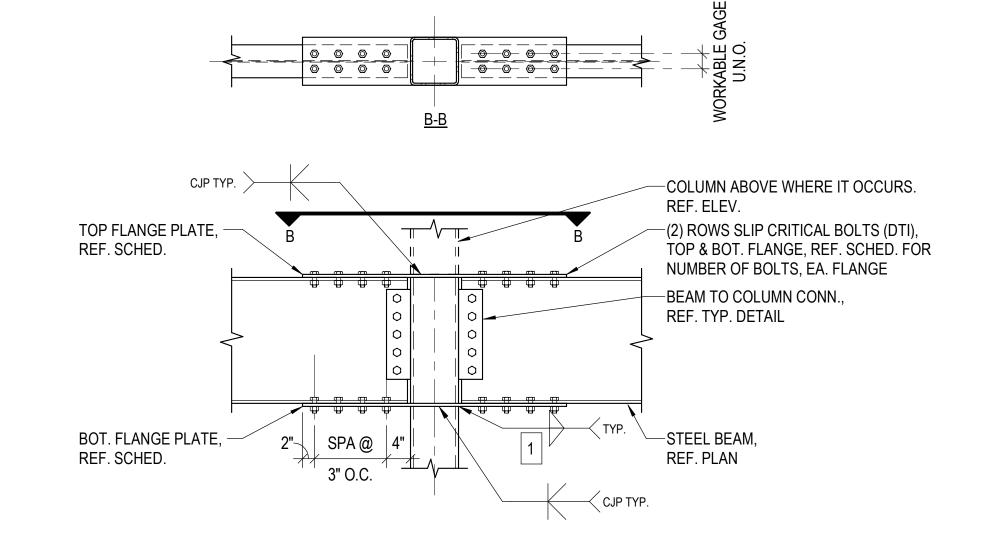
30' - 0" /—'TYPE 1' MOMENT 3 characteron of the contraction MOMENT CONN. S-304 W21X44 5 S-304 HSS GLAZING SUPPORT TUBES NOT SHOWN FOR CLARITY

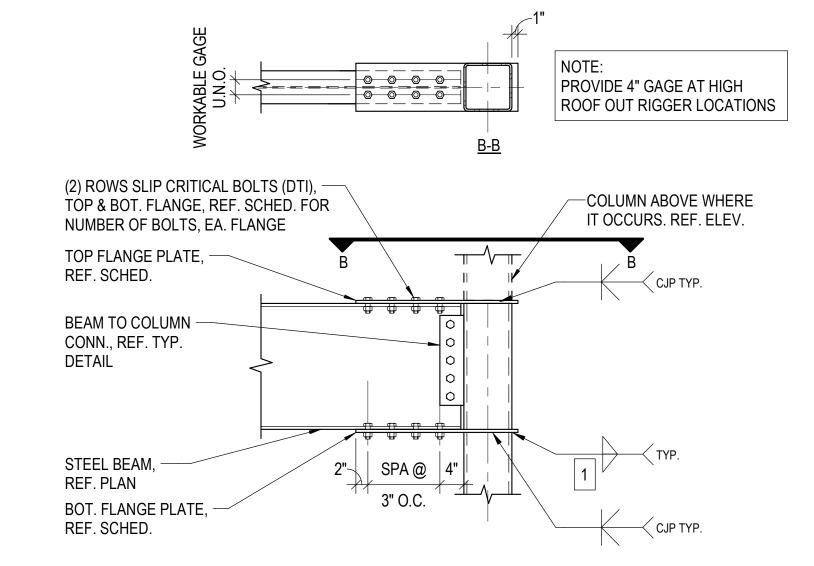
GRID 2 MOMENT FRAME (LOOKING EAST)

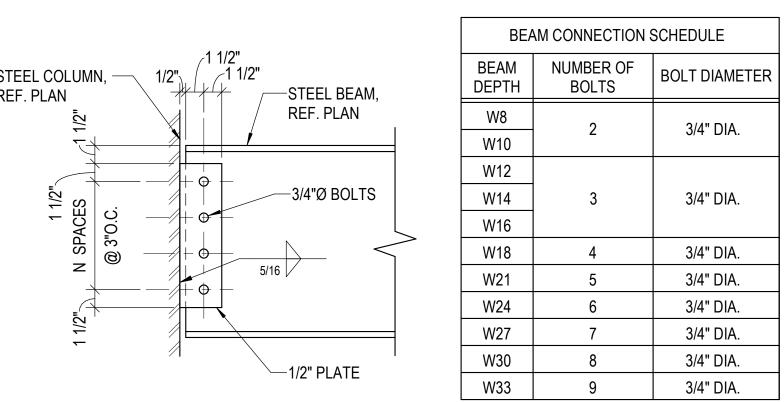
1/4" = 1'-0"

GRID 8.3 MOMENT FRAME (LOOKING EAST)

		MO	MEN [°]	T CO	NNE	CTIO	N SC	HEDI	JLE	
NO	TES:									
1.	PROVIDE	CLASS A FAYI	ING SURGACE	AT ALL MOME	NT CONNECTION	ONS.				
2.	CONNEC	TING BOLTS SI	HALL BE SLIP-(CRITICAL (SC)	AND SHALL BE	PRE-TENSION	IED TO ASTM S	STANDARDS		
3.						PROVIDE SAM JMN, WHERE A		ND SIZE OF BO	OLTS FOR BOT	H TOP AND
4.	REFEREN	ICE MOMENT (CONNECTION I	DETAIL FOR BO	OLT SPACING A	AND EDGE DIS	TANCE/MINIMU	JM REQUIREM	ENTS.	
	MARK	COLUMN SIZE	BEAM SIZE	MIN. PLATE THICKNESS	MIN. PLATE WIDTH	PLATE TYPE	BOLT DIA.	BOLT QUANTITY	BOLT TYPE	WELD SIZE [1]
	TYPE 1	HSS8X8	W21X	1/2"	8"	A36 (36 KSI)	3/4"	8	A325-SC	5/16"
	TYPE 2	HSS8X8	W16X	1/2"	8"	A36 (36 KSI)	3/4"	8	A325-SC	5/16"
	TYPE 3	W14X	W24X	1"	8"	A36 (36 KSI)	3/4"	10	A325-SC	5/16"







MOMENT CONN. AT HSS COL.

NO SCALE

MOMENT CONN. AT HSS COL.

NO SCALE

TENSION CONNECTION (SINGLE ROW)

NO SCALE

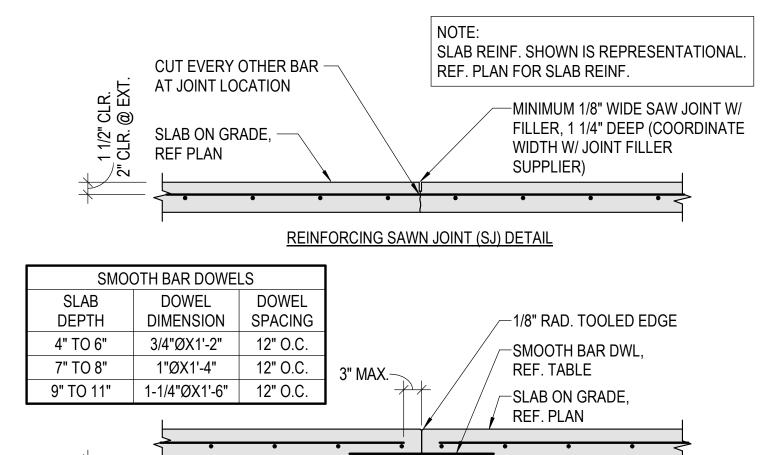
fy = 60,000 PSI

f'c = 4,000 PSI

- LENGTHS SHOWN CONFORM WITH NON-SEISMIC PROVISIONS OF ACI 318 FOR UNCOATED BARS. BAR CLEAR SPACING IS THE CENTER TO CENTER BAR SPACING MINUS ONE BAR DIAMETER. CLASS A LAP LENGTHS APPLY WHEN BAR LAPS ARE STAGGERED TO LAP HALF THE BARS AT THE SAME
- LOCATION. USE CLASS B LAP FOR ALL OTHER CASES. TOP BARS ARE HORIZONTAL REINFORCEMENT PLACED SO THAT MORE THAN 12 INCHES OF CONCRETE IS CAST BELOW THE REINFORCEMENT.

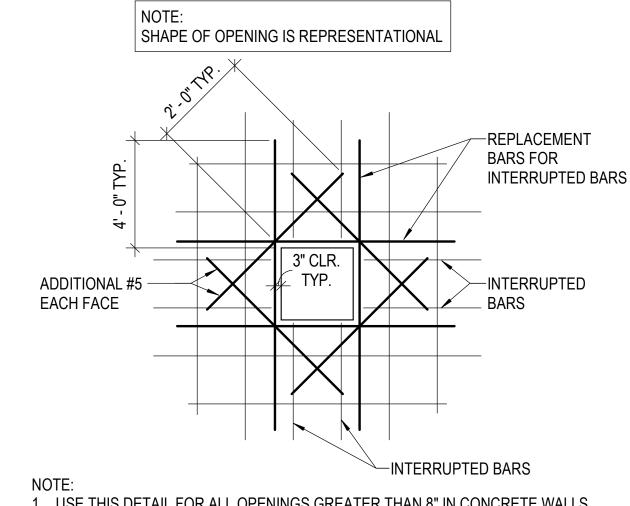
I	5.	MULTIPLY LENGTHS GIVEN BY 2.0 FOR BARS WITH CLEAR SPACING OF TWO BAR DIAMETERS OR LESS, OF
ı		CONCRETE COVER OF ONE BAR DIAMETER OR LESS.

CONONLIE COVER OF ONE DAR DIAWETER OR LEGG.																
	CLEAR SPACING EMBEDMENT &					ENT & (CLASS A LAP (IN)			CLASS B LAP (IN)						D (IN)
111		(IN)		T	OP BA	R	ОТ	HER BA	ARS	T	OP BAI	R	OT	HER BA	\RS	EMBED
BAR SIZE	2d	3d	5d	2d <s<3d< td=""><td>S>3d</td><td>S>5d</td><td>2d<s<3d< td=""><td>S>3d</td><td>S>5d</td><td>2d<s<3d< td=""><td>S>3d</td><td>S>5d</td><td>2d<s<3d< td=""><td>S>3d</td><td>S>5d</td><td>HOOK EI</td></s<3d<></td></s<3d<></td></s<3d<></td></s<3d<>	S>3d	S>5d	2d <s<3d< td=""><td>S>3d</td><td>S>5d</td><td>2d<s<3d< td=""><td>S>3d</td><td>S>5d</td><td>2d<s<3d< td=""><td>S>3d</td><td>S>5d</td><td>HOOK EI</td></s<3d<></td></s<3d<></td></s<3d<>	S>3d	S>5d	2d <s<3d< td=""><td>S>3d</td><td>S>5d</td><td>2d<s<3d< td=""><td>S>3d</td><td>S>5d</td><td>HOOK EI</td></s<3d<></td></s<3d<>	S>3d	S>5d	2d <s<3d< td=""><td>S>3d</td><td>S>5d</td><td>HOOK EI</td></s<3d<>	S>3d	S>5d	HOOK EI
3	3/4	1-1/8	1-7/8	28	18	12	21	14	12	36	24	14	28	18	12	8
4	1	1-1/2	2-1/2	37	25	15	28	19	12	48	32	19	37	25	15	10
5	1-1/4	1-7/8	3-1/8	46	31	18	36	24	14	60	40	24	46	31	18	12
6	1-1/2	2-1/4	3-3/4	55	37	22	43	28	17	72	48	29	55	37	22	15
7	1-3/4	2-5/8	4-3/8	81	54	32	62	42	25	105	70	42	81	54	32	18
8	2	3	5	92	62	37	71	47	28	120	80	48	92	62	37	20
9	2-1/4	3-3/8	5-5/8	104	70	42	80	54	32	136	90	54	104	70	42	22
10	2-1/2	3-3/4	6-3/8	117	78	47	90	60	36	153	102	61	117	78	47	25
11	2-7/8	4-1/4	7	130	87	52	100	67	40	170	113	68	130	87	52	27



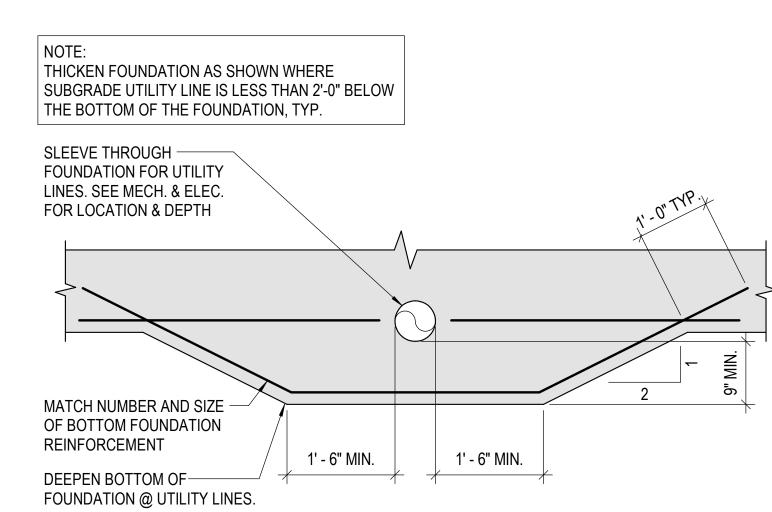
REINFORCING CONSTRUCTION JOINT (CJ) DETAIL TYP. SLAB ON GRADE JOINT

3' - 0"

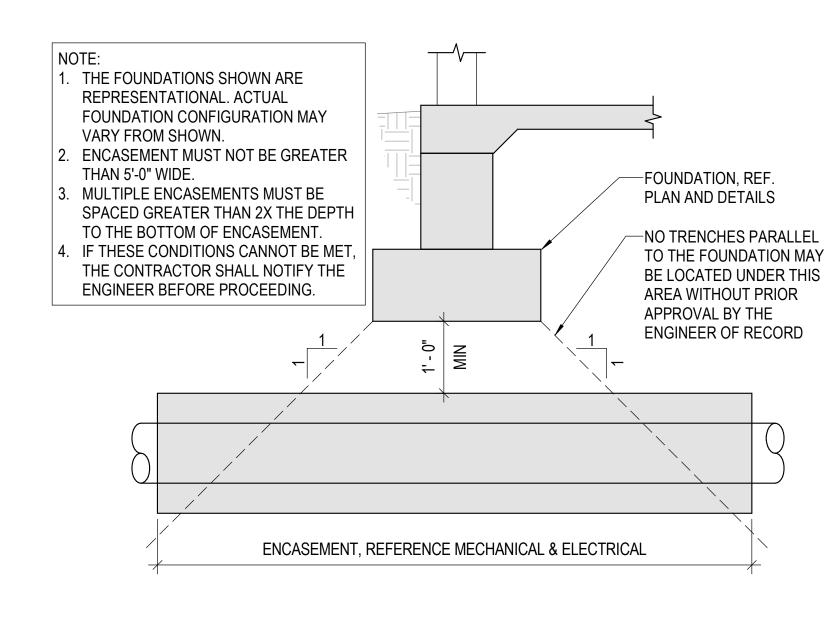


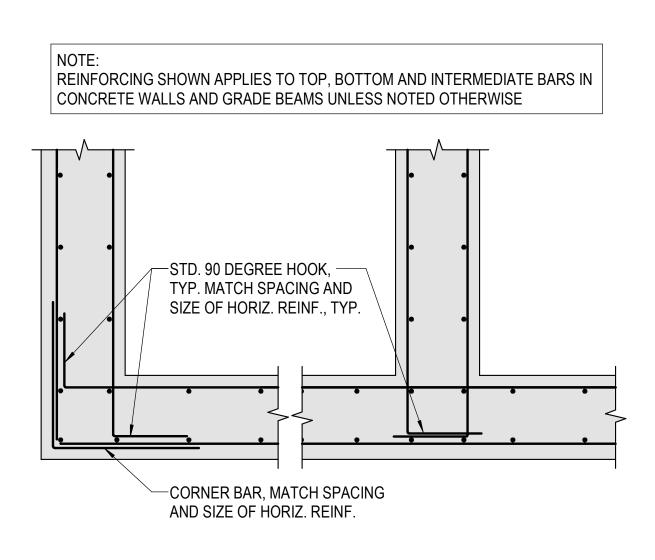
1. USE THIS DETAIL FOR ALL OPENINGS GREATER THAN 8" IN CONCRETE WALLS AND SLABS, PROVIDE (2) #5 ON DIAGONAL AS SHOWN. EXTEND BARS 2'-0" PAST OPENING. REPLACE ALL VERTICAL AND HORIZONTAL BARS INTERRUPTED BY THE OPENING WITH AN EQUAL NUMBER AND SIZE BARS EVENLY DIVIDED ON EACH SIDE OF THE OPENING UNLESS NOTED OTHERWISE 2. REF. PLANS FOR OPENING LOCATIONS.

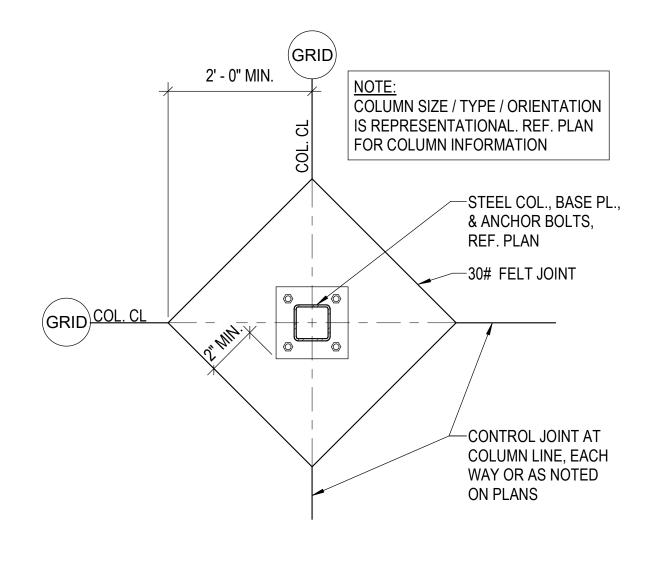
TYP. CONC. OPENING REINF. **NO SCALE**

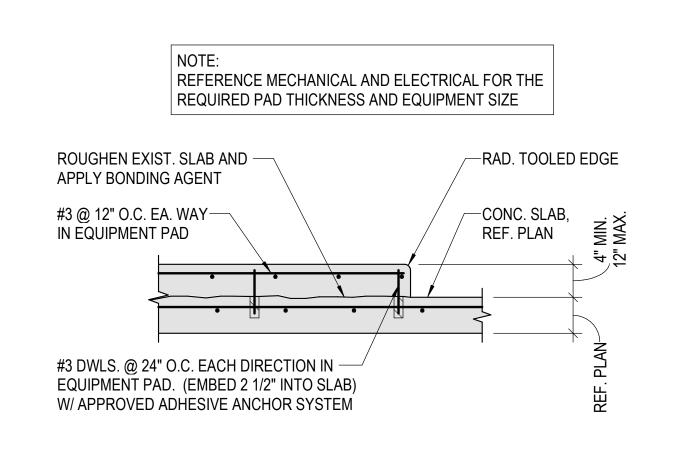


TYP. UTILITY THRU FTG. **NO SCALE**







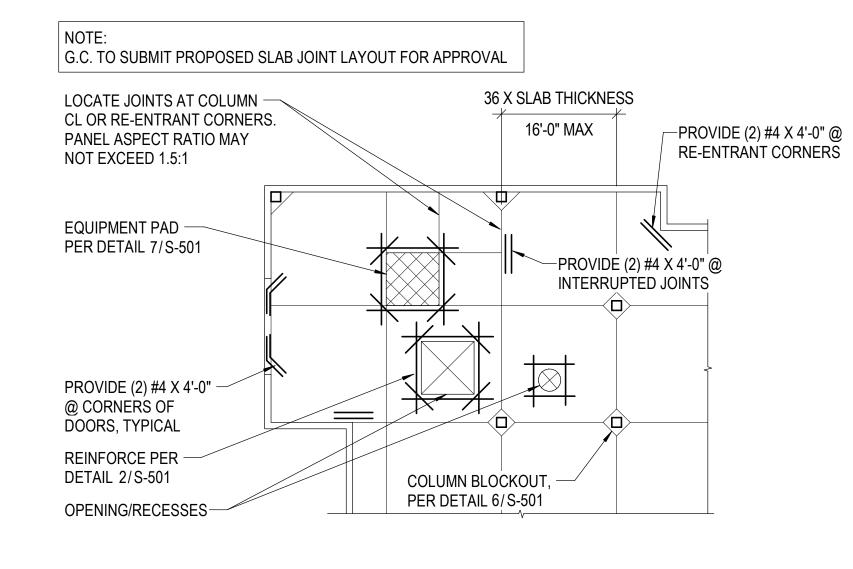


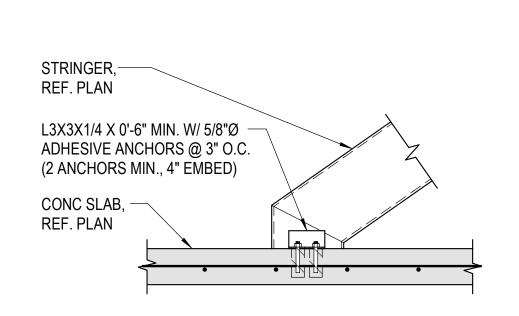
UTILITY ENCASEMENT UNDER FTG. **NO SCALE**

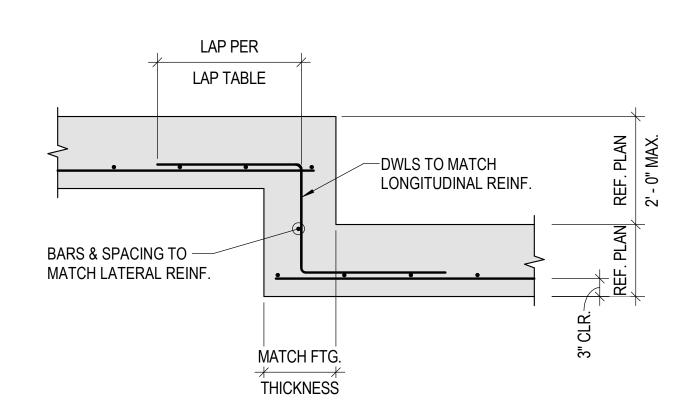
TYP. CORNER/INTERSECTION

TYP. COL. ISOLATION JOINT

7 TYP. INTERIOR EQUIP. PAD







8 TYP. SLAB JOINT DETAIL

NO SCALE

SECTION AT STAIR STRINGER NO SCALE

TYP. GRADE BEAM STEP NO SCALE



CONSTRUCTION
As Noted on Plans Review

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CMT

1627 MAIN STREET, SUITE 600 KANSAS CITY, MO 64108

1627 MAIN STREET, SUITE 100

KANSAS CITY, MO 64108

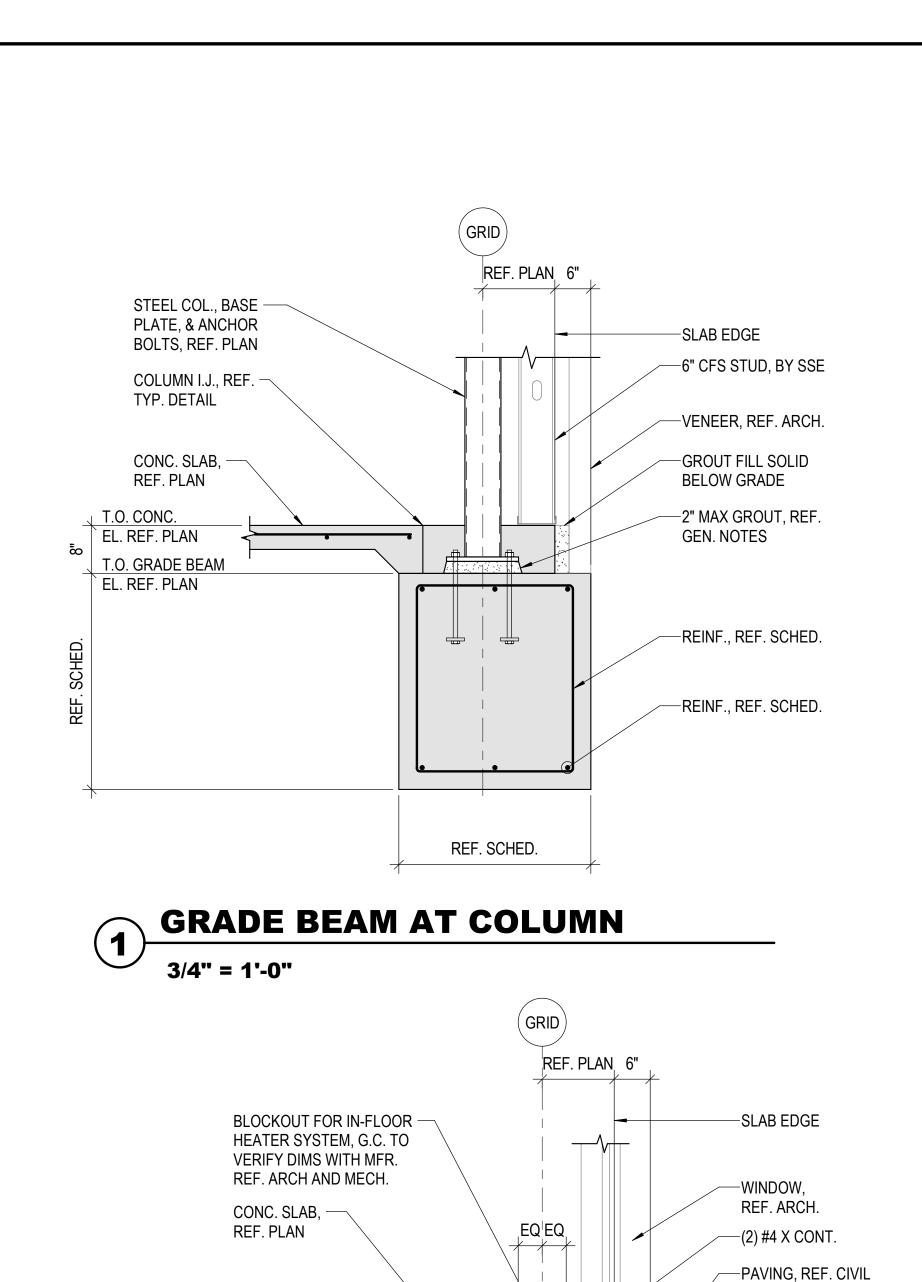
1100 MAIN ST, STE 1800 KANSAS CITY, MO 64105

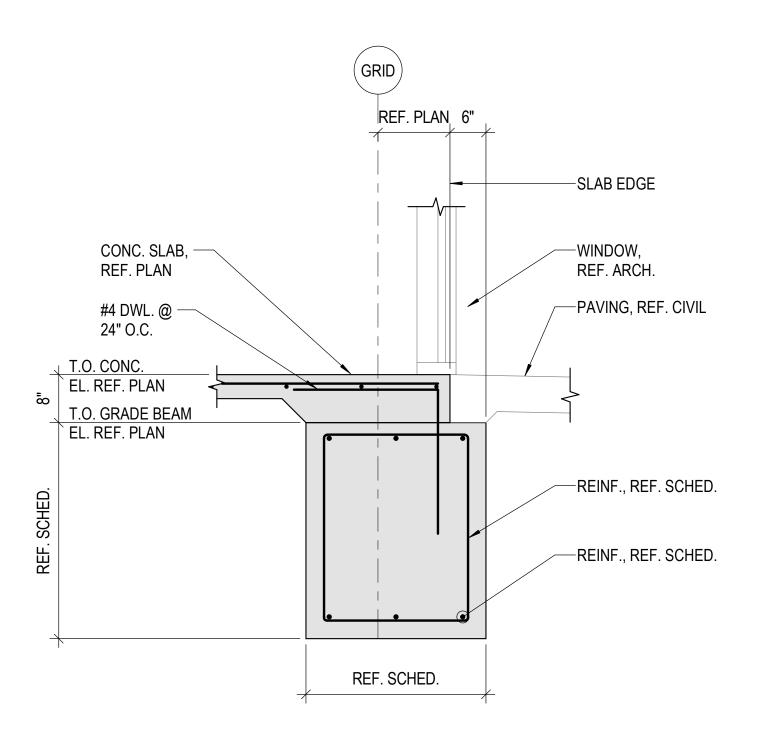
1301 BURLINGTON

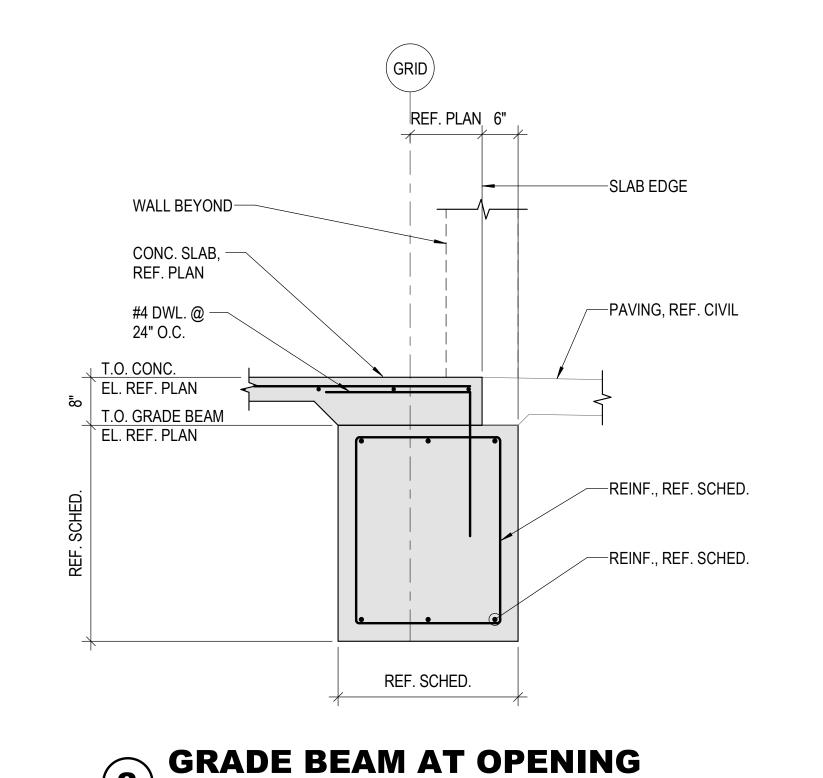
NORTH KANSAS CITY, MO 64116

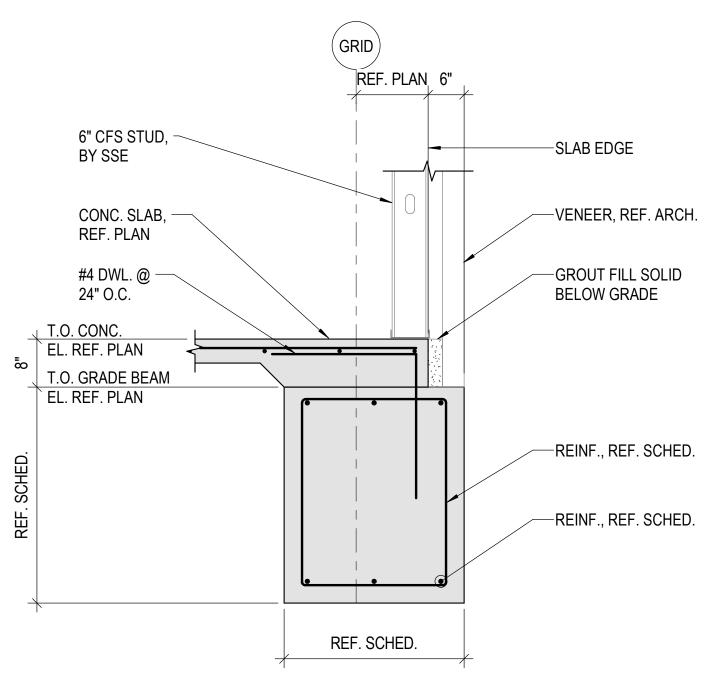
MARK DATE DESCRIPTION ISSUED FOR: FINAL REVIEW PROJECT NO: 250104-000 REVIT FILE: 250104-000_STRUCT_R24.rvt DESIGNED BY: JSH CHECKED BY: MWK

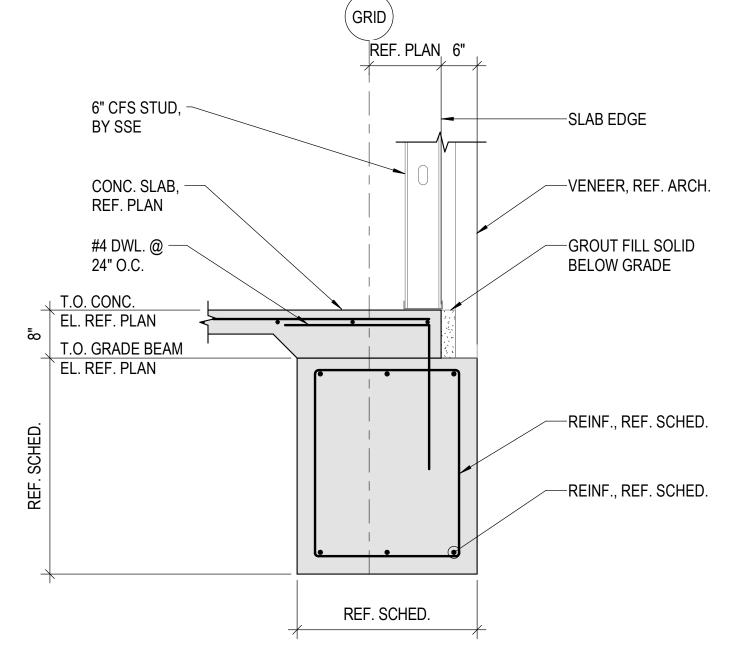
TYPICAL FOUNDATION **DETAILS**



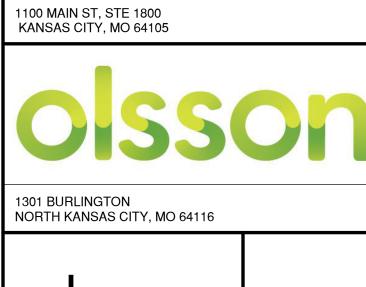








GRADE BEAM AT STUD WALL



CMT

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RAL PRO

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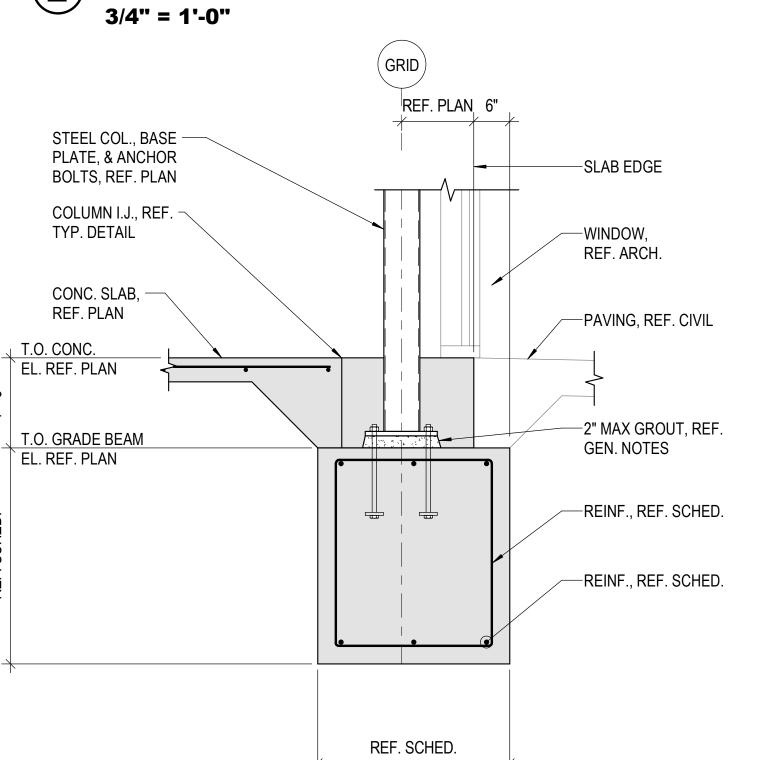
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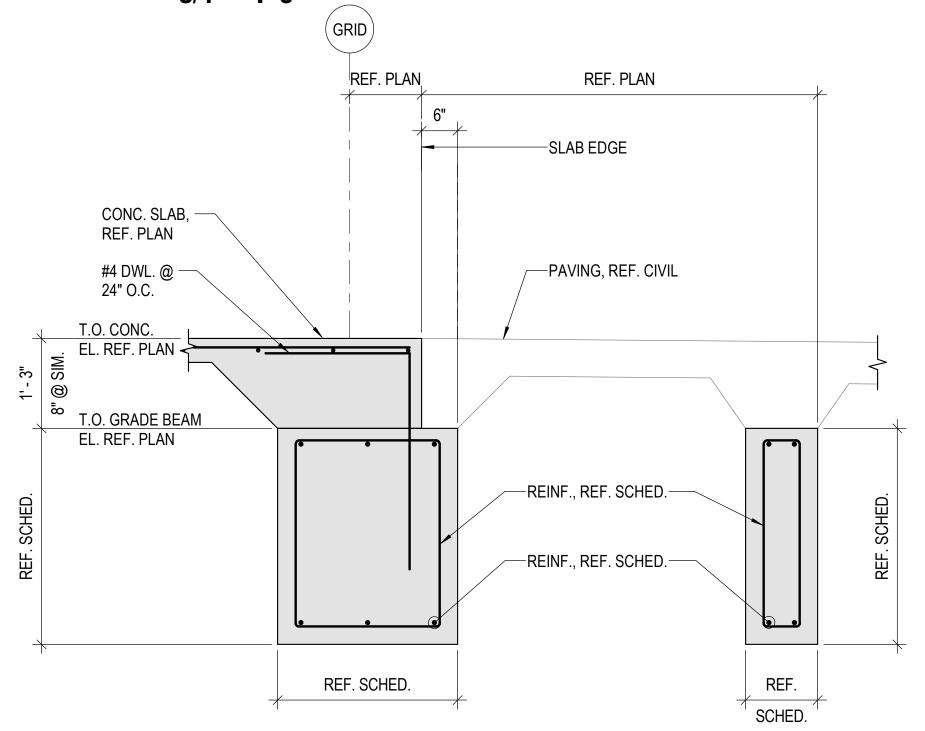
MARK DATE DESCRIPTION ISSUED FOR: FINAL REVIEW PROJECT NO: 250104-000 REVIT FILE: 250104-000_STRUCT_R24.rvt DESIGNED BY: JSH DRAWN BY: CHECKED BY: MWK APPROVED BY: WTL

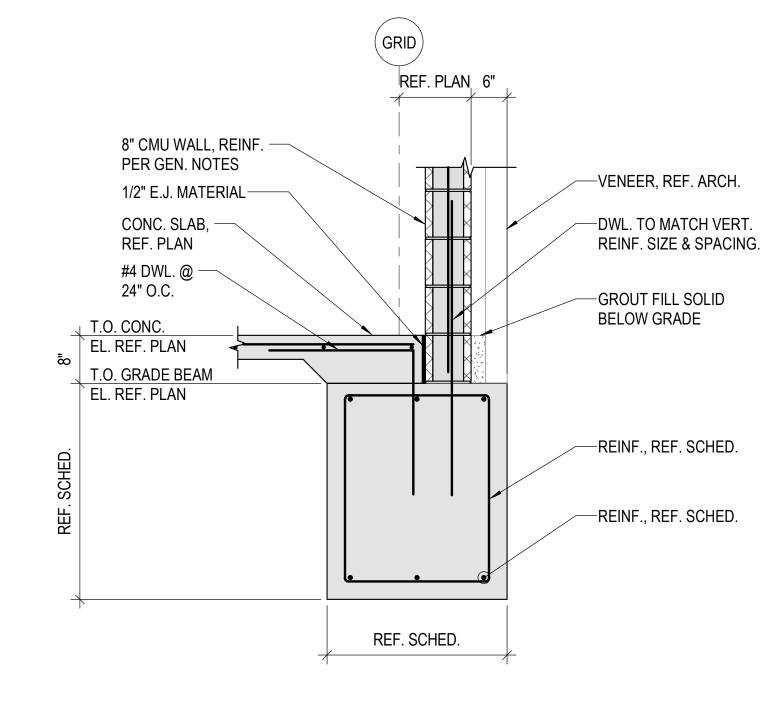
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S-502

GRADE BEAM AT GLAZING







GRADE BEAM AT IN-FLOOR HEATER

REF. SCHED.

-#4 U-BAR @ 24" O.C.

-REINF., REF. SCHED.

REINF., REF. SCHED.

-#4 @ 24" O.C.

-(2) #4 X CONT.

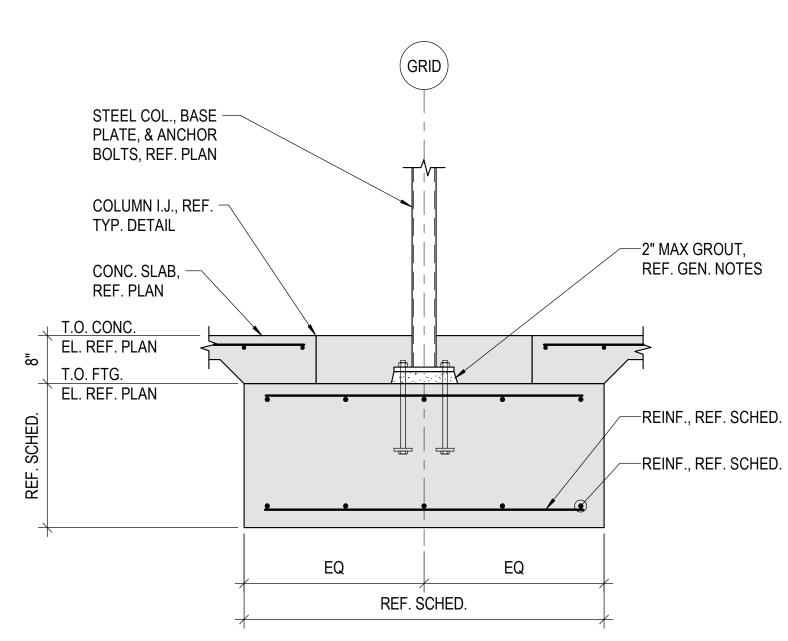
T.O. CONC.

EL. REF. PLAN

T.O. GRADE BEAM

#4 DWL. @ -

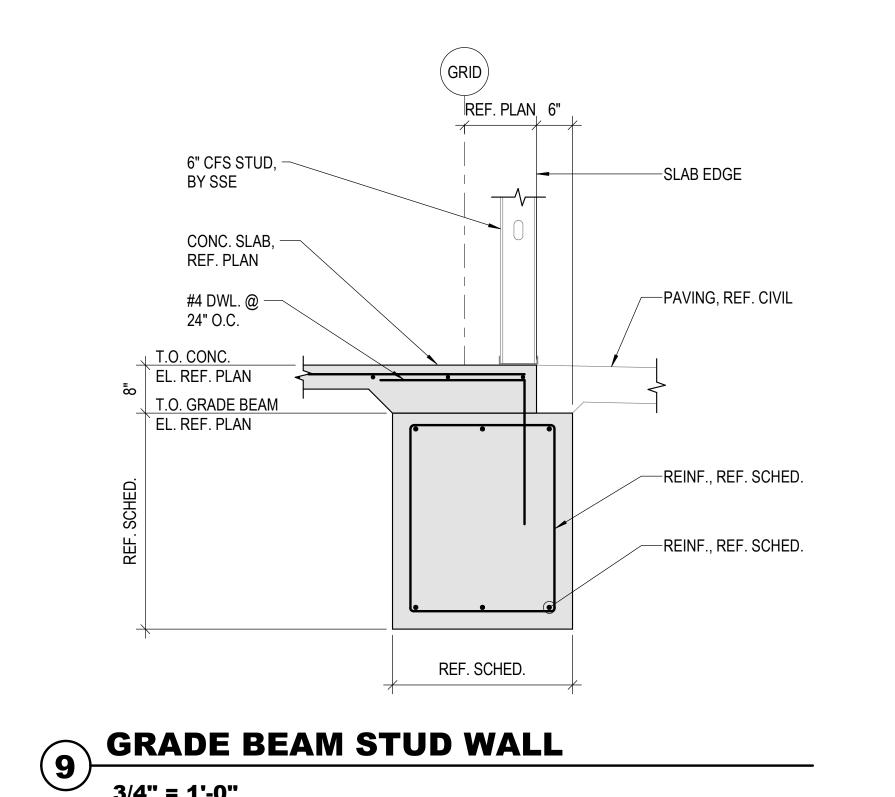
EL. REF. PLAN

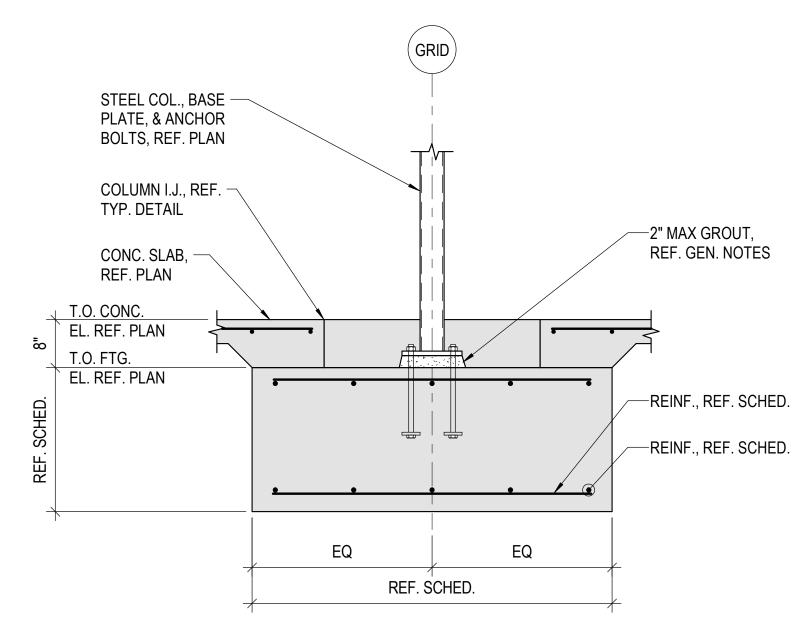


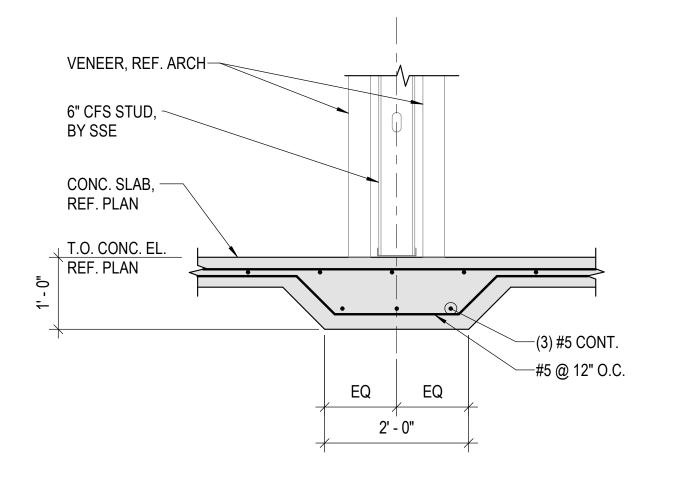
GRADE BEAM AT COLUMN

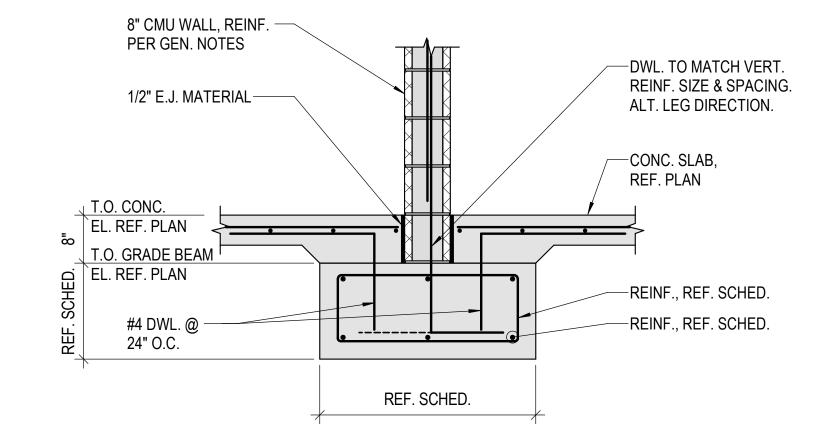
STRUCTURAL STOOP

GRADE BEAM AT CMU WALL





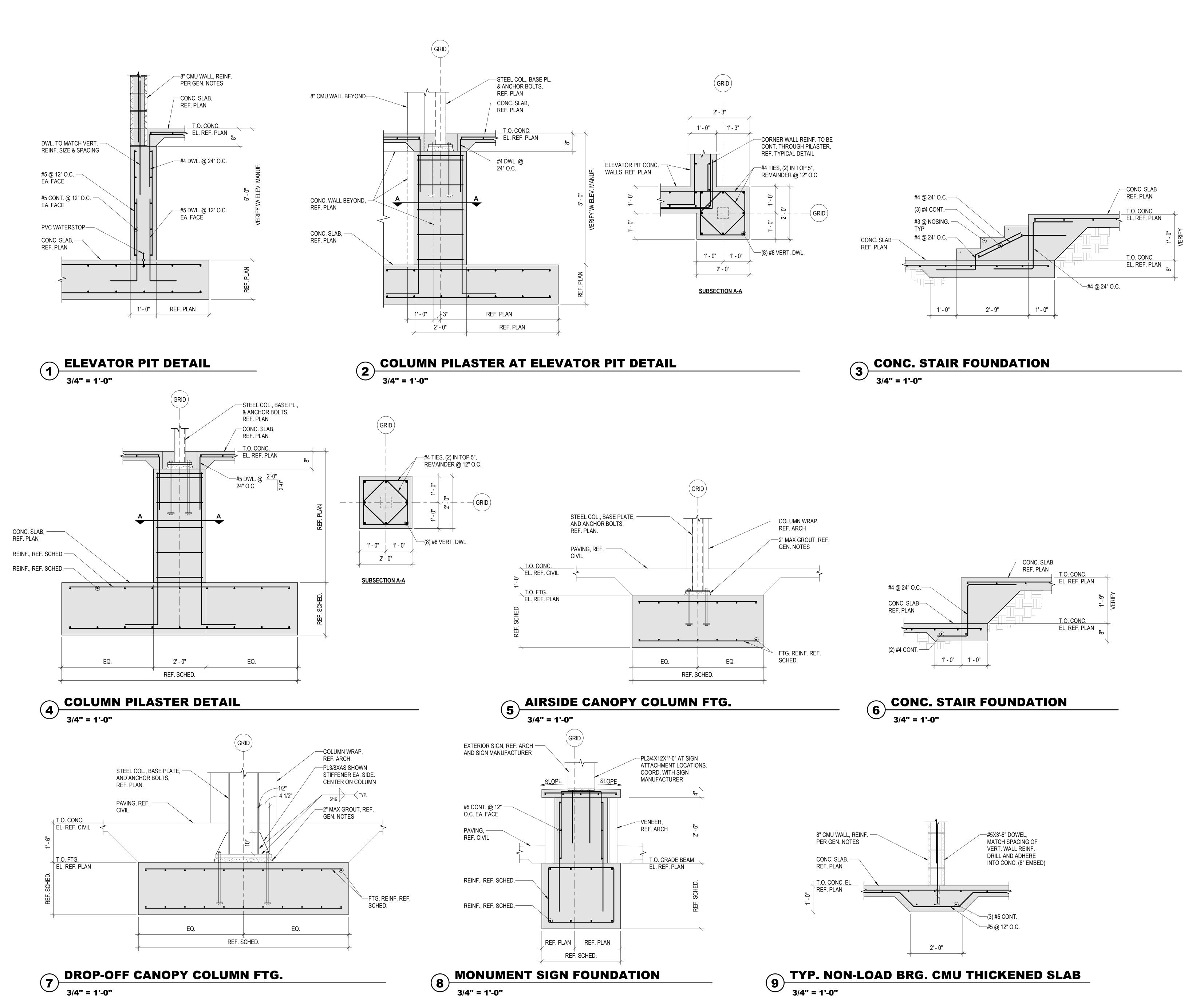




INTERIOR COLUMN FTG.

THICKENED SLAB AT ENTRY BRICK

GRADE BEAM AT CMU WALL



Development Services Del Lee's Summit, Misso 03/11/2025

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GENE CITY F

1301 BURLINGTON NORTH KANSAS CITY, MO 64116

> EE'S SUMMIT MUNICIPAL AIRPO LEE'S SUMMIT AIRPORT

VESTON LOEHR
NUMBER
PE-2022000051
03/04/2025

MARK DATE DESCRIPTION

ISSUED FOR: FINAL REVIEW

PROJECT NO: 250104-000

REVIT FILE: 250104-000_STRUCT_R24.rvt

DESIGNED BY: JSH

DRAWN BY: DGC

DESIGNED BY: JSH

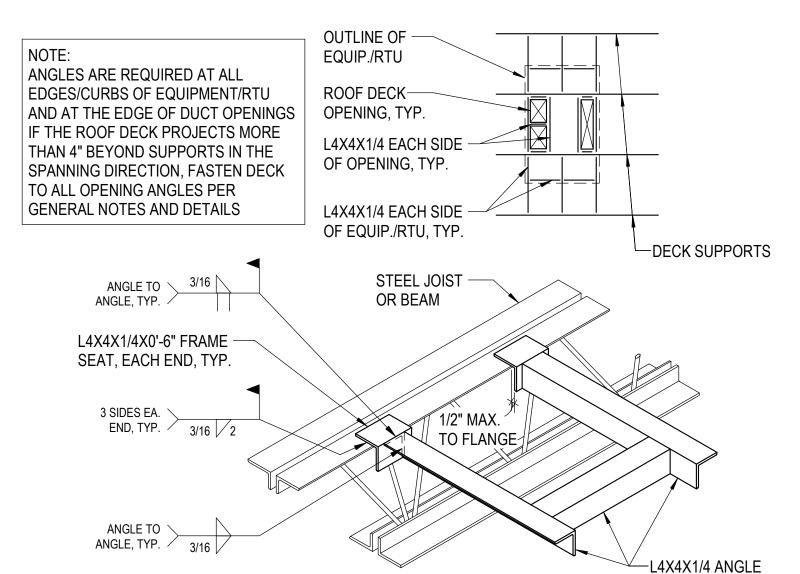
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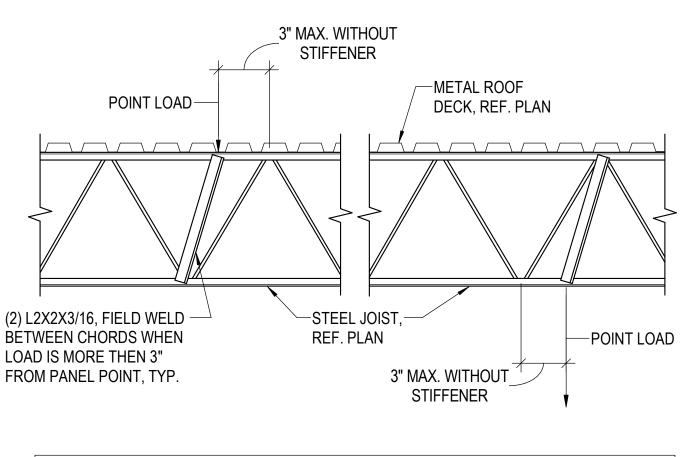
CHECKED BY: MWK

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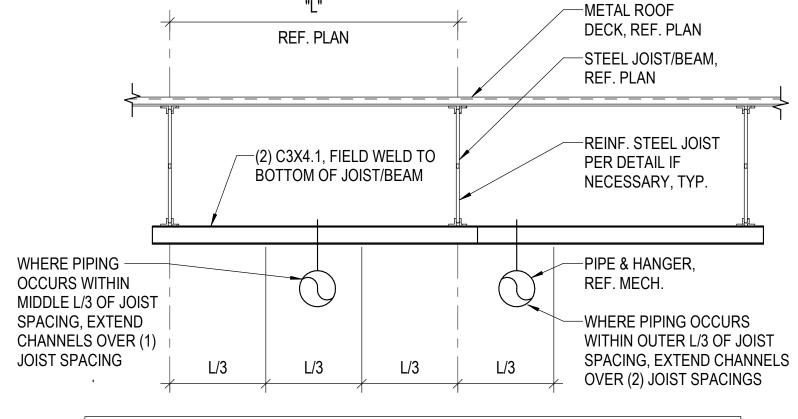


1. A MAXIMUM SINGLE CONCENTRATED LOAD OF 100 LBS. MAY BE APPLIED BETWEEN

FOR LOADS IN EXCESS OF 200 LBS. AND NOT INDICATED ON FRAMING PLANS, THE JOIST MANUFACTURER SHALL BE NOTIFIED BY THE CONTRACTOR OF THE MAGNITUDE

AND LOCATION SO THE JOIST CAN BE DESIGNED FOR THE ADDITIONAL LOAD.

FOR CONCENTRATED LOADS IN EXCESS OF 100 LBS. AND UP TO 200 LBS., REINFORCE



THIS DETAIL APPLIES FOR ONE PIPE 6" TO 10" IN DIAMETER. WHEN HANGING MULTIPLE PIPES VERIFY SUPPORT WITH ARCHITECT & STRUCTURAL ENGINEER PRIOR TO INSTALLATION. REFERENCE MECHANICAL FOR LOCATIONS, TYP.

1 1/2" METAL ROOF DECK ATTACH.

NO SCALE

NO SCALE

TYP. METAL ROOF DECK OPENING

NO SCALE

TYP. MISC. JOIST LOADING

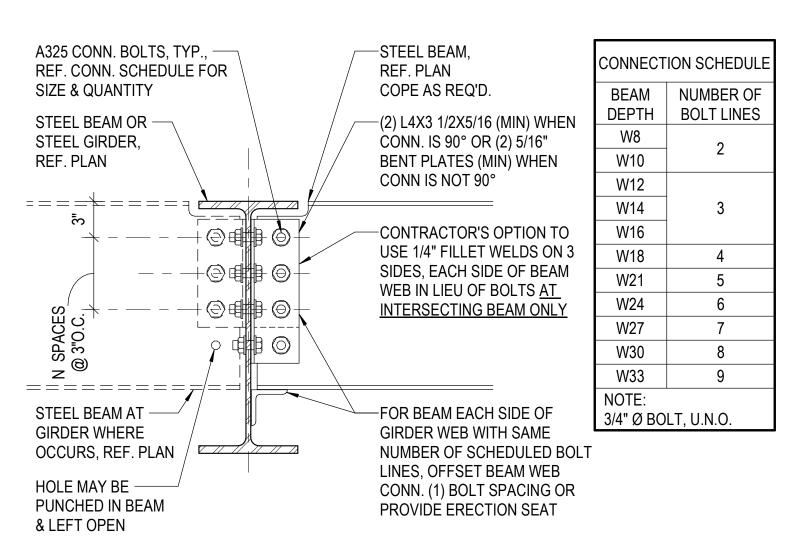
PANEL POINTS WITHOUT ANY JOIST REINFORCING.

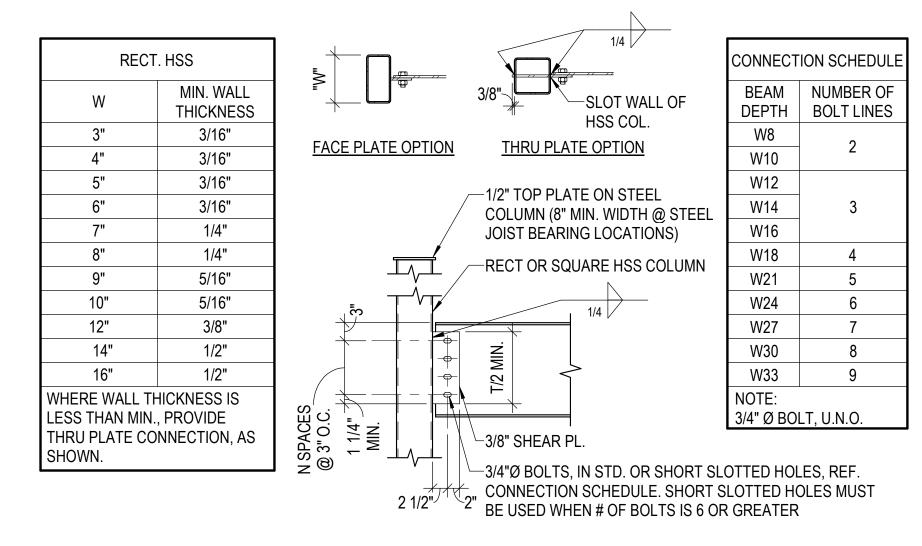
THE JOIST WITH THE MEMBERS NOTED ABOVE.

NO SCALE

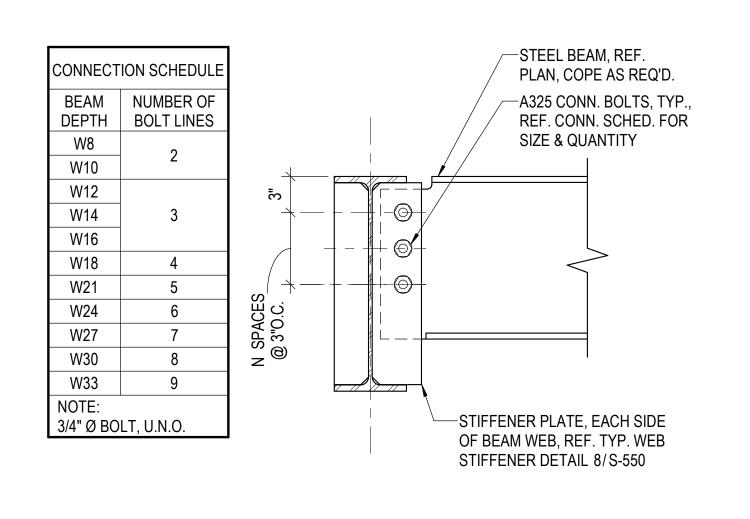
TYP. PIPE SUPPORT DETAIL

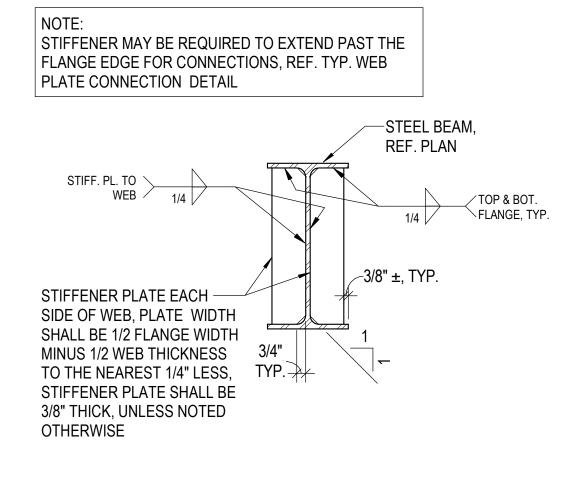
NO SCALE



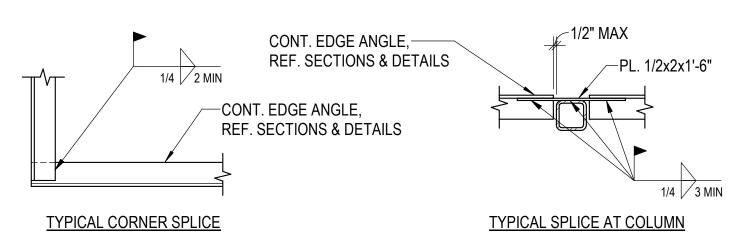


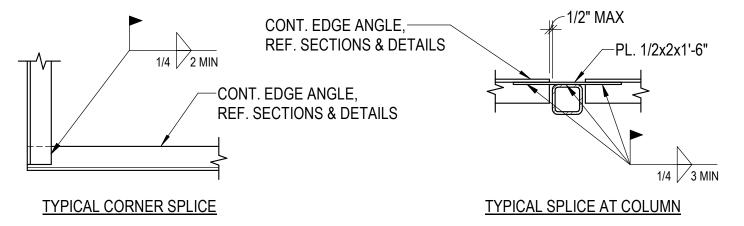
FRAME, TYP.

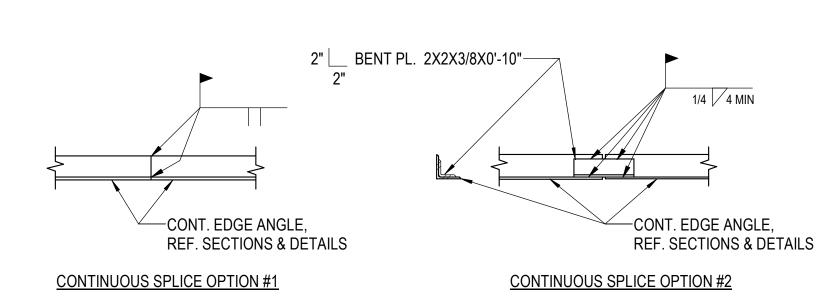




TYP. DOUBLE ANGLE CONN.









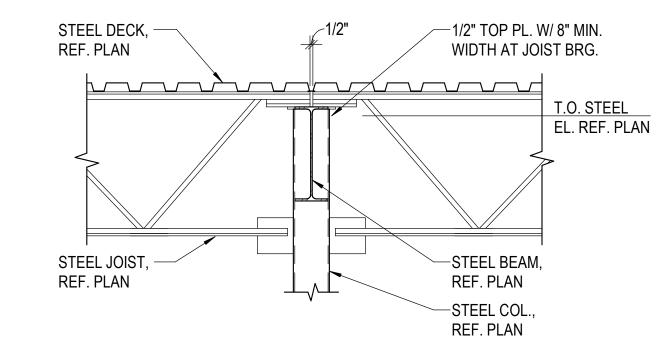
T.O. STEEL

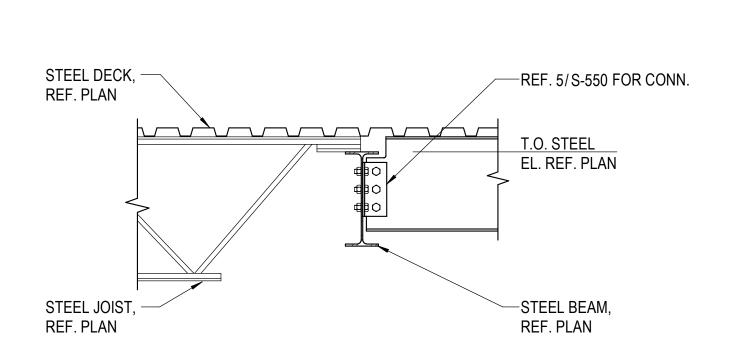
REF. PLAN

EL. REF. PLAN

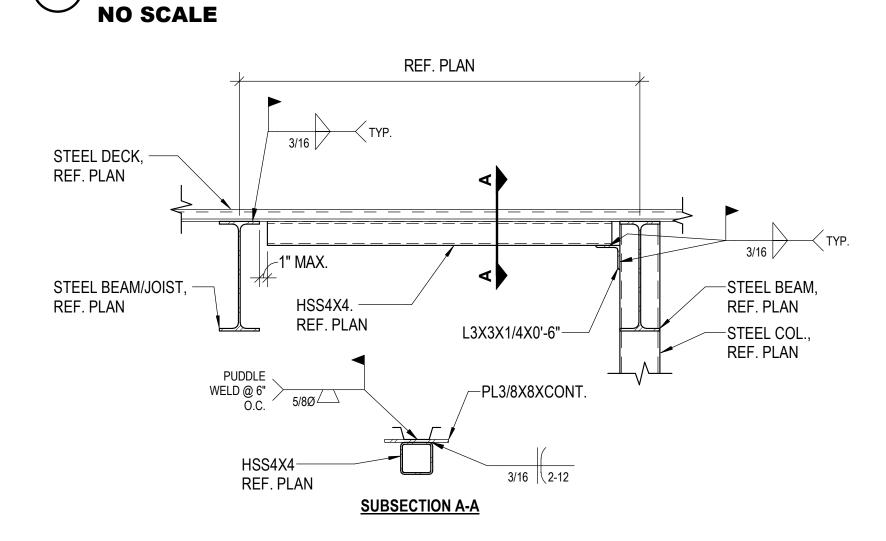


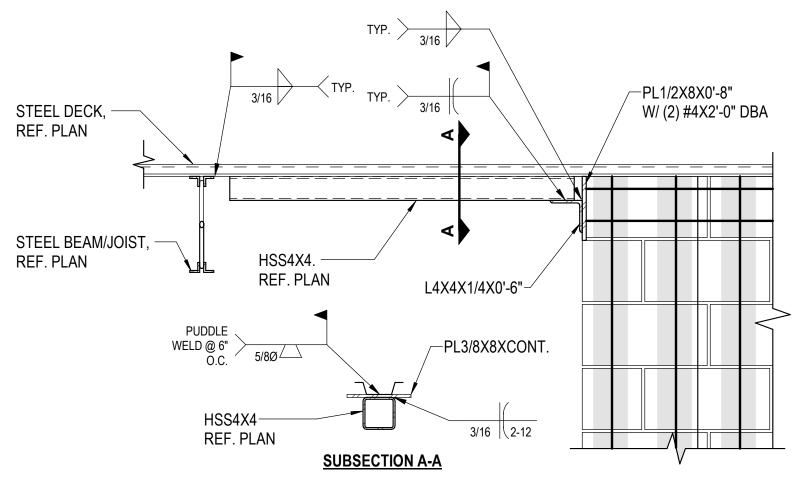


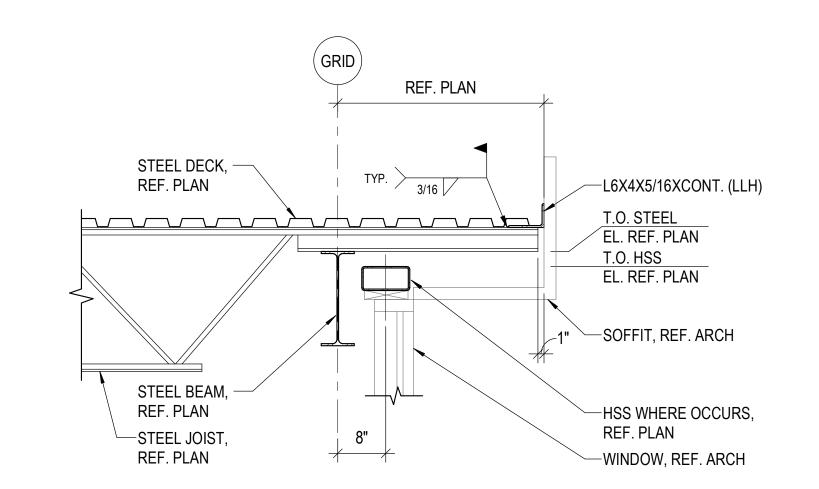


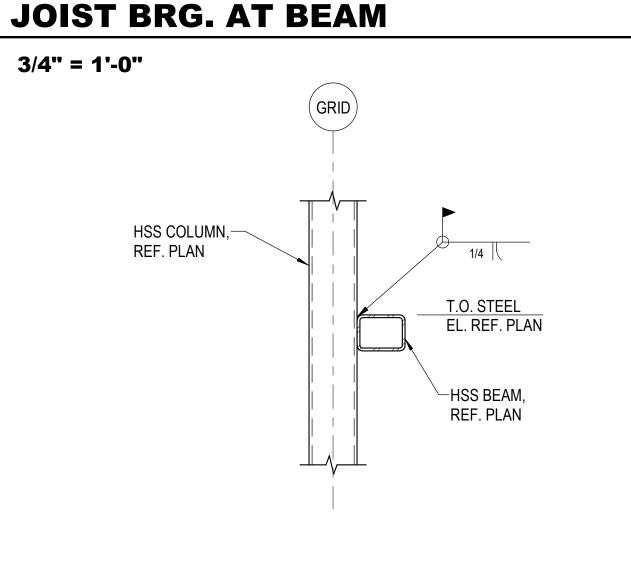


TYP. EDGE ANGLE SPLICE









TYP. DRAG AT CMU

STEEL DECK, -

REF. PLAN

STEEL JOIST,

REF. PLAN

3/4" = 1'-0"

JOIST BRG. AT BEAM

JOIST EXTENSION AT BEAM 3/4" = 1'-0"

JOIST BRG. AT COLUMN

TYP. HSS BEAM TO HSS COLUMN CONN.

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CONSTRUCTION
As Noted on Plans Review

Lee's Summit, Miss 03/11/2025

1627 MAIN STREET, SUITE 600

1627 MAIN STREET, SUITE 100

KANSAS CITY, MO 64108

1100 MAIN ST, STE 1800 KANSAS CITY, MO 64105

1301 BURLINGTON

NORTH KANSAS CITY, MO 64116

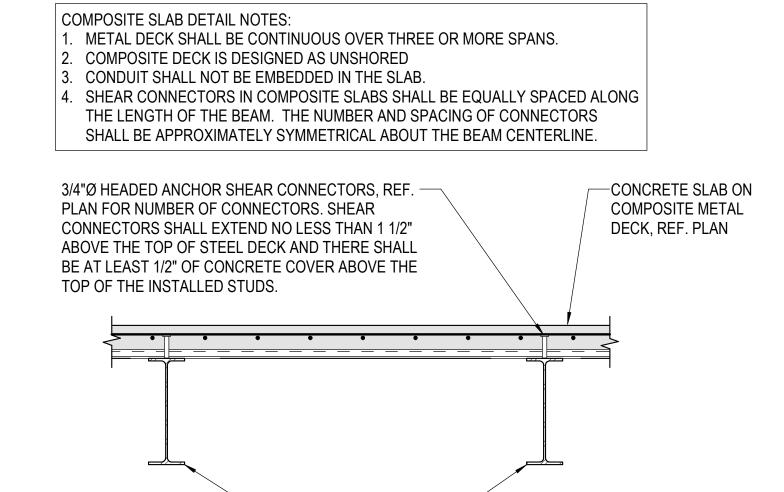
KANSAS CITY, MO 64108

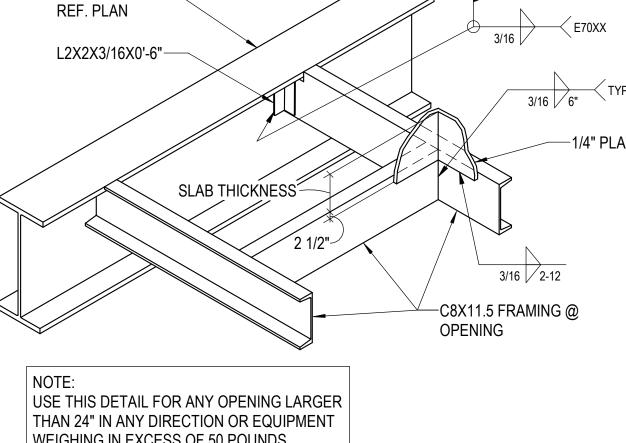


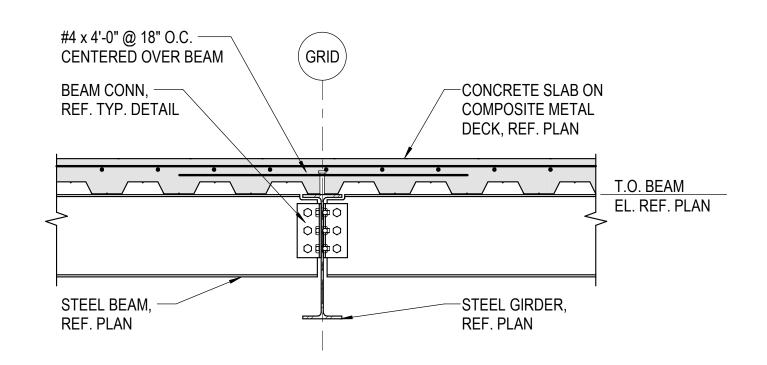
MARK	DATE	DESCRIPTION					
ISSU	ED FOR:	FINAL REVIEW					
PRO	JECT NO:	250104-000					
REVI	T FILE:	250104-000_STRUCT_R24.rvt					
DESI	GNED BY:	JSH					
DRAV	WN BY:	DGC					
CHE	CKED BY:	MWK					
APPF	ROVED BY	: WTL					
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SHEE	T TITLE						
	TYP	ICAL FRAMING					

S-550

DETAILS



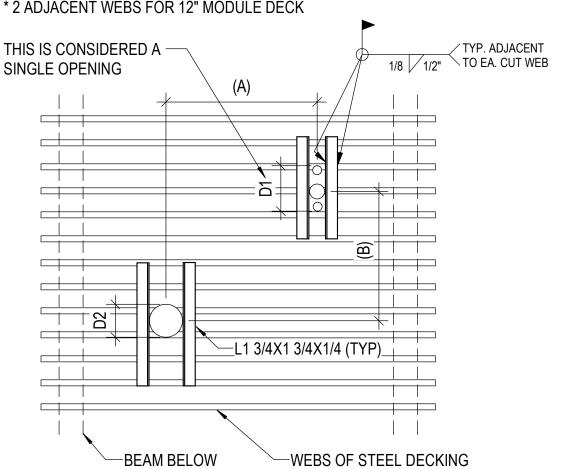




2" COMPOSITE DECK ATTACHMENT

NO SCALE

HOLES CUTTING NO MORE THAN: * 3 ADJACENT WEBS FOR 6" & 8" MODULE DECK * 2 ADJACENT WEBS FOR 12" MODULE DECK



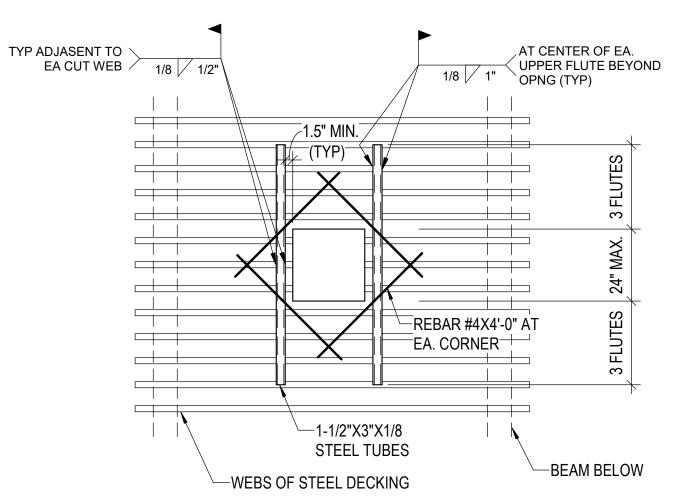
- 1. ANGLES SHALL BE PLACED ON TOP OF THE DECK. 2. ANGLES SHALL EXTEND 3 WEBS PAST THE DECK OPENING (TYP).
- 3. IF DIMENSION (A) IS GREATER THAN 4D1, OR 32" WHICHEVER IS LARGER, THERE IS NO RESTRICTION
- 4. IF DIMENSION (B) IS GREATER THAN 4D1, 4D2 OR 32" WHICHEVER IS
- 5. LARGER, THERE IS NO RESTRICTION ON DIMENSION (A).
- 6. IF DIMENSION (A) AND (B) ARE LESS THAN 4D1, 4D2 OR 32" WHICHEVER IS LARGER, THE OPENING GROUP SHALL BE CONSIDERED AS A SINGLE HOLE, AND SHALL BE REINFORCED AS REQUIRED FOR THE LARGER OPENING AS SHOWN IN 6/S-551

COMPOSITE DECK OPENING

NO SCALE

TYP. COMPOSITE SLAB DETAIL

-STEEL BEAM W/ SHEAR -CONNECTORS, REF. PLAN



1. TUBES SHALL BE PLACED ON TOP OF THE DECK.

- 2. ADD REBARS AT CORNERS OF OPENING ABOVE THE TUBES.
- 3. IF THE OPENING OR GROUP OF OPENINGS CUTS THROUGH ONE DECK FLUTE, THE OPENING
- OR OPENING GROUPS MAY BE CUT BEFORE POURING CONCRETE. 4. IF THE OPENING OR GROUP OF OPENINGS CUTS THROUGH TWO DECK FLUTES, THE DECK SHALL NOT BE CUT UNTIL CONCRETE HAS BEEN PLACED AND CURED. AT THE TIME OF
- OPENING, SUITABLE SLEEVES OR BULKHEADS SHALL BE PLACED AROUND THE OPENING. 5. WHEN THE MAXIMUM DIMENSION OF AN OPENING OR OPENING GROUP EXCEEDS 24", PLACE BEAMS AROUND OPENING PER 3/S-551

COMPOSITE DECK OPENING

NO SCALE







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KANSAS CITY, MO 64105

NORTH KANSAS CITY, MO 64116

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TYPICAL FRAMING **DETAILS**

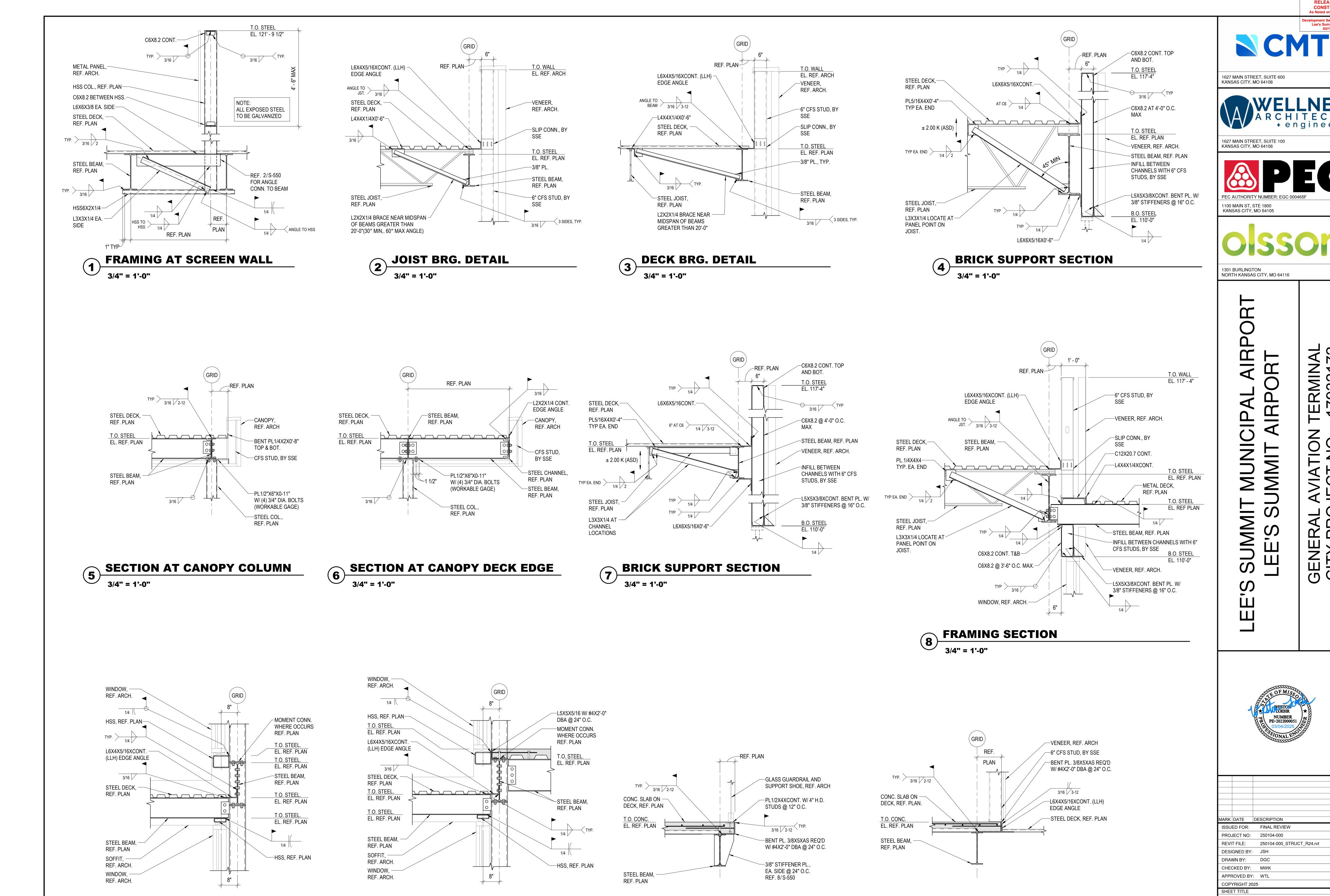
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S-551

—1/4" PLATE WEIGHING IN EXCESS OF 50 POUNDS.

STEEL BEAM,



COMPOSITE DECK EDGE

FRAMING SECTION AT CANOPY

FRAMING SECTION AT CANOPY

S-552

FRAMING DETAILS

COMPOSITE DECK EDGE

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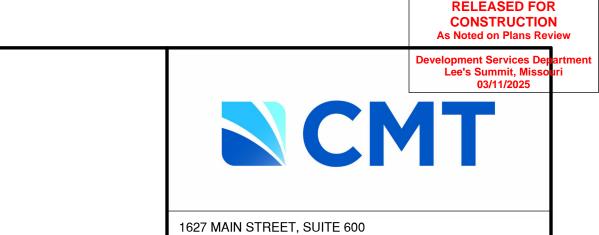
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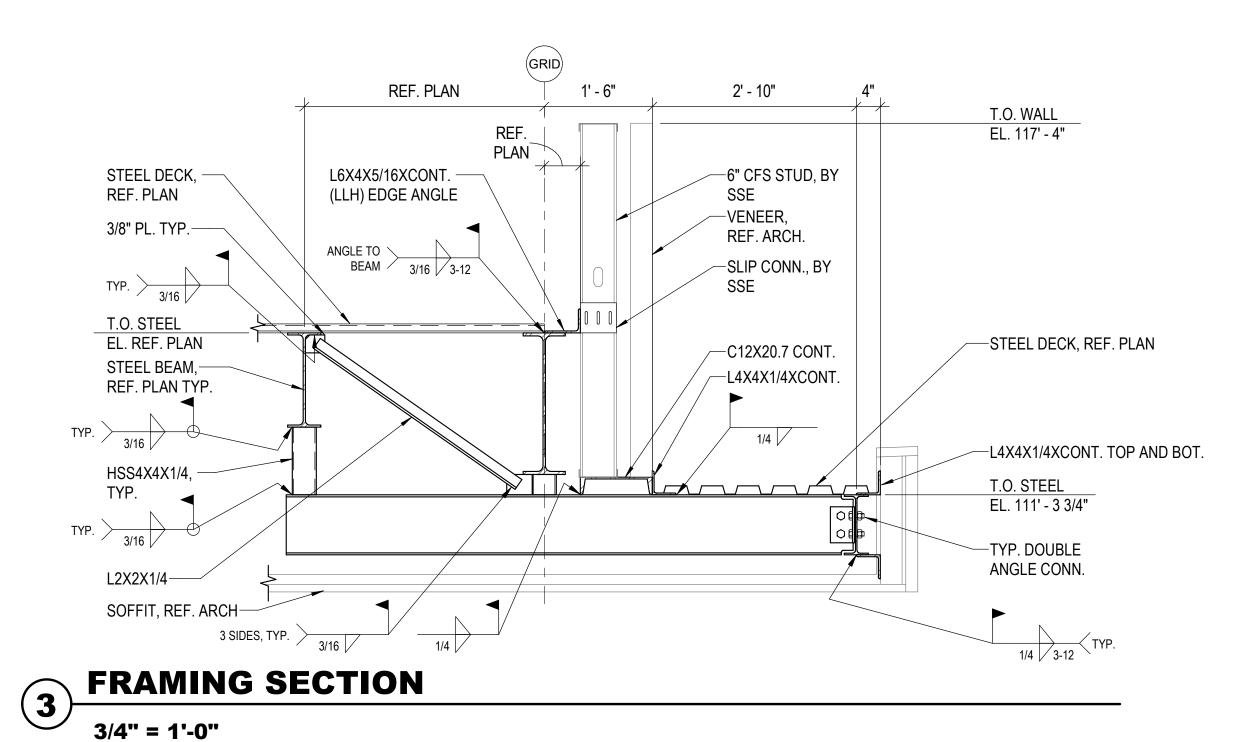
AVIATION JECT NO. -

GENERAL, CITY PRO

S Щ

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APPROVED BY: Approver **COPYRIGHT 2025** FRAMING DETAILS



SHORE CONT. STEEL HSS MEMBER PRIOR TO INSTALLATION OF CFS STUDS, TYP. HSS MEMBER IS SUPPORTED VERTICALLY BY CFS STUDS. HSS, REF. PLAN-T.O. STEEL EL. REF. PLAN -16 GA. PLX10"XCONT. W/ (2) #12 SCREWS VENEER, AT EA. HIGH FLUTE REF. ARCH. 8" CFS STUD, BY SSE 3/16 3-12 ANGLE TO BEAM METAL DECK, -L2X2X1/4 AT -REF. PLAN -L6X4X5/16XCONT. THIRD POINTS (LLH) EDGE ANGLE T.O. STEEL EL. REF. PLAN TYP. EA. AND 3/16 3/8" PL., TYP. -STEEL BEAM, REF. PLAN STEEL JOIST, 3 SIDES, TYP. REF. PLAN **DECK BRG. DETAIL**

∠—GLASS GUARDRAIL TYP. 3/16 AND SUPPORT SHOE, REF. ARCH —GLASS GUARDRAIL AND SUPPORT SHOE, REF. ARCH BENT PL. 3/8X5XAS REQ'D -L2X2X1/4X AS REQ'D. W/ #4X2'-0" DBA @ 24" O.C. CONC. SLAB ON --STRINGER DECK, REF. PLAN CJP, GRIND SMOOTH T.O. CONC. EL. REF. PLAN 3/16 —L2X2X1/4X AS REQ'D. -STRINGER TYP. 3/16 2-12 C15X33.9—/ STRINGER TYP. DOUBLE -ANGLE CONN. STEEL BEAM, C15X33.9 — STRINGER -EPOXY TERRAZZO TREADS, REF. PLAN REF. ARCH STAIR FRAME SECTION

-16 GA. PLX10"XCONT.

W/ (2) #12 SCREWS

AT EA. HIGH FLUTE

-L6X4X5/16XCONT.

T.O. STEEL

EL. REF. PLAN

−3/8" PL., TYP.

-STEEL BEAM,

REF. PLAN

(LLH) EDGE ANGLE

3/16 3-12 ANGLE TO BEAM

3 SIDES, TYP.

VENEER,

BY SSE

REF. ARCH.

6" CFS STUD,

-L4X4X1/4X0'-6"

METAL DECK, -

REF. PLAN

L2X2X1/4 BRACE NEAR

MIDSPAN OF BEAMS

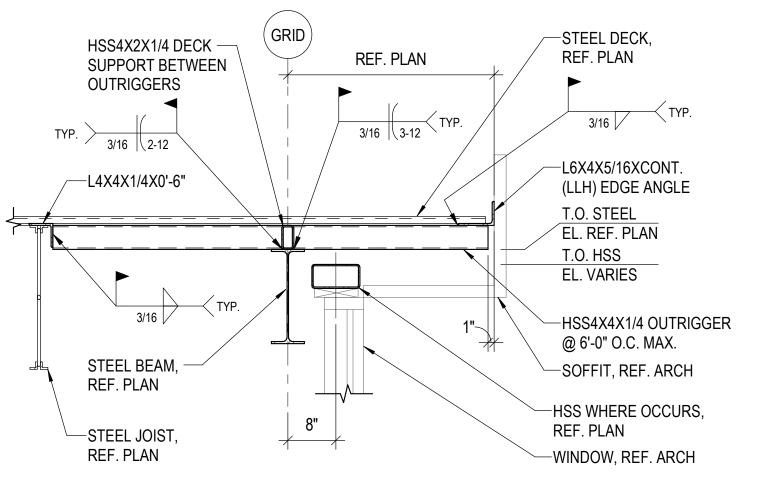
GREATER THAN 20'-0"

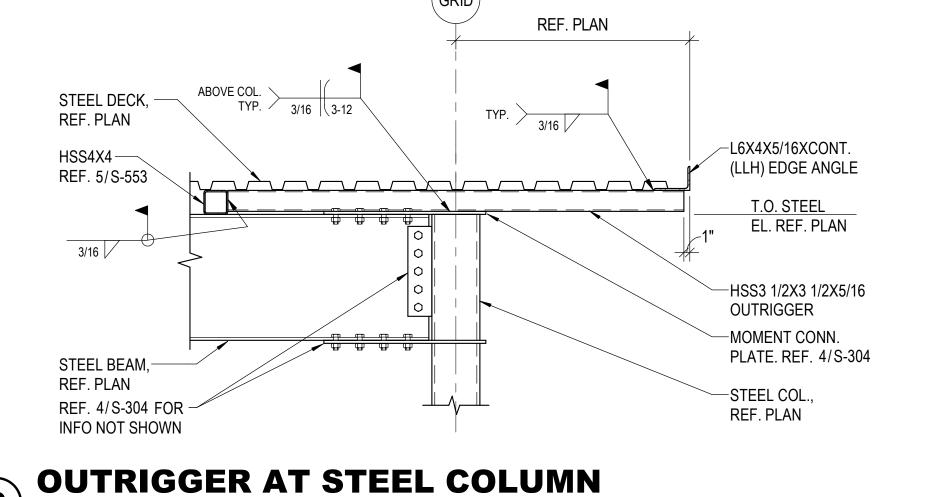
DECK BRG. DETAIL

STEEL JOIST, REF. PLAN

1" = 1'-0"

3/4" = 1'-0"

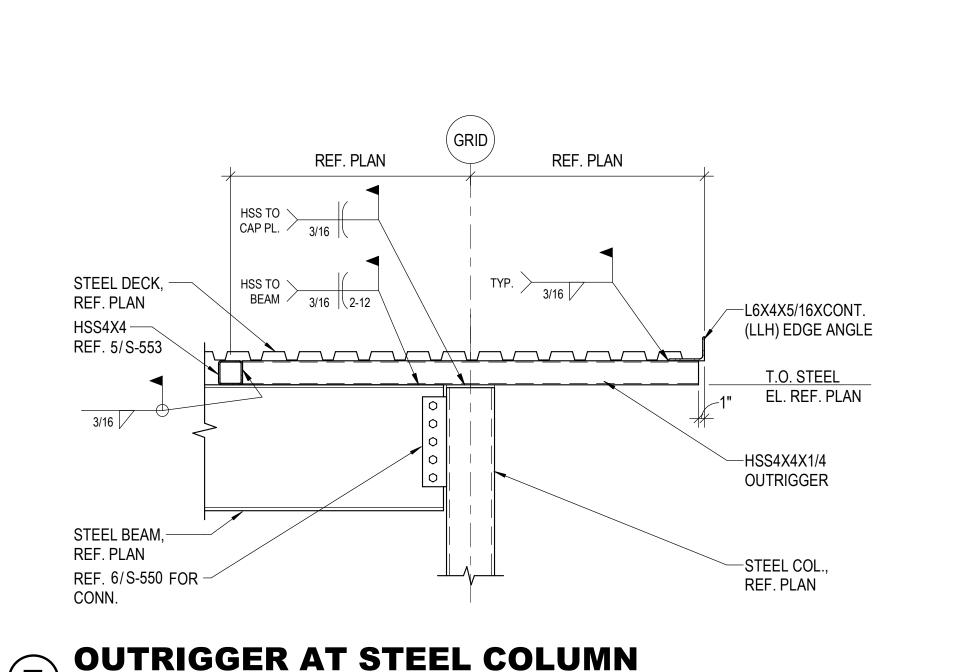


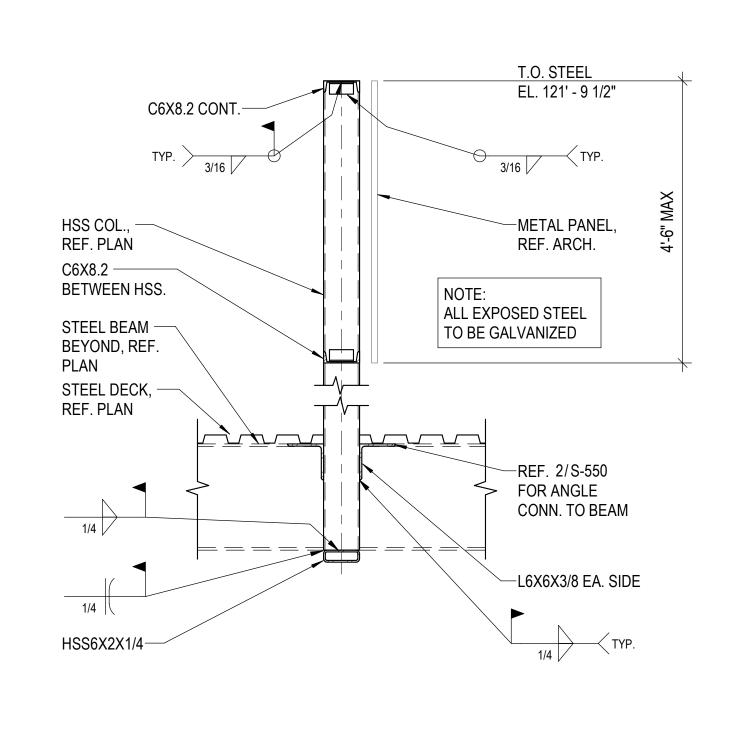


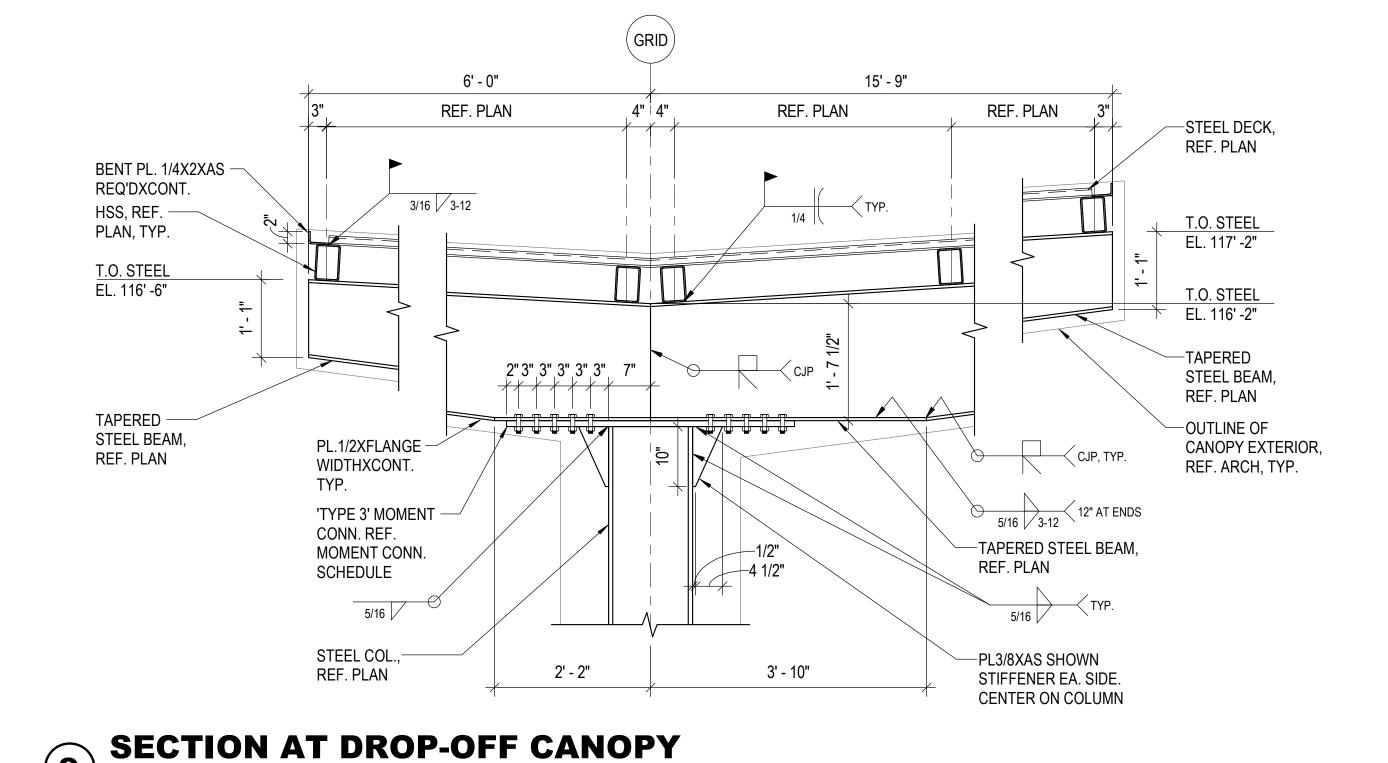
3/4" = 1'-0"

OUTRIGGER AT STEEL BEAM 3/4" = 1'-0"





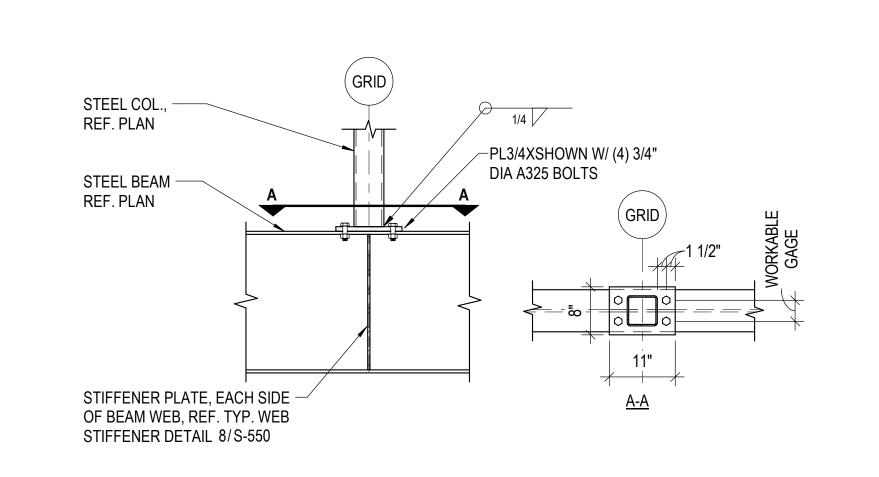




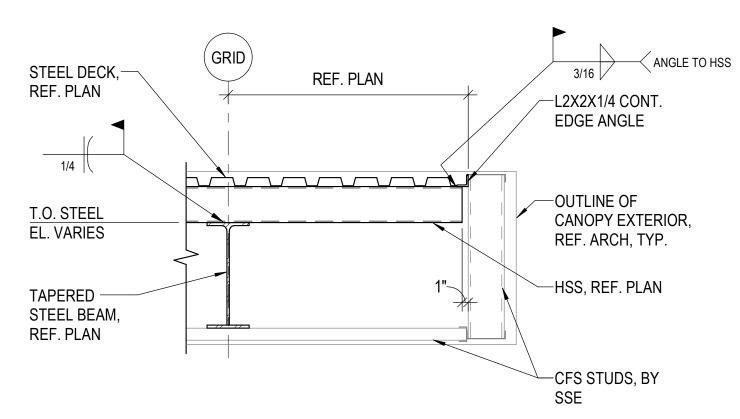
FRAMING AT SCREEN WALL

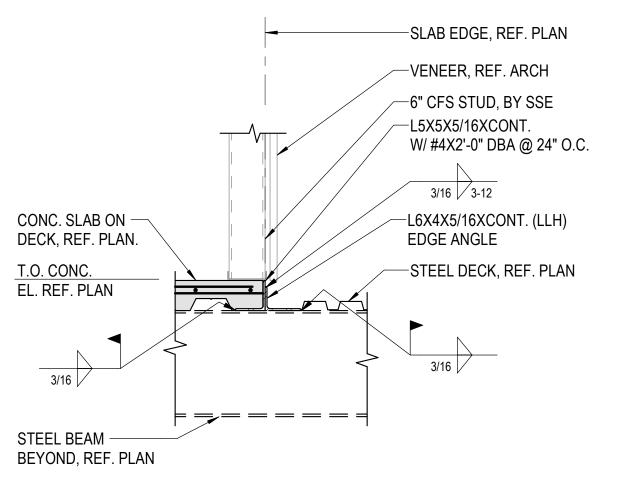
3/4" = 1'-0"

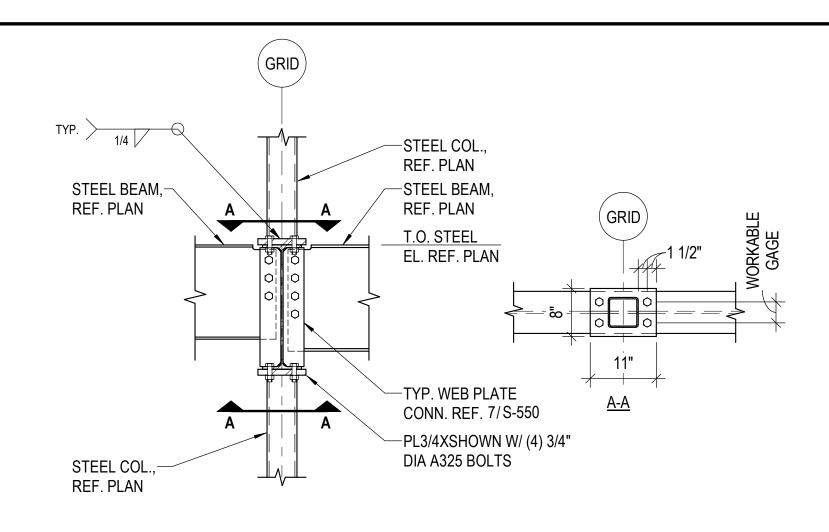
3/4" = 1'-0"



TRANSFER BEAM









COMPOSITE DECK EDGE



1100 MAIN ST, STE 1800 KANSAS CITY, MO 64105

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evelopment Services Der Lee's Summit, Misso 03/11/2025

1627 MAIN STREET, SUITE 600 KANSAS CITY, MO 64108

1627 MAIN STREET, SUITE 100 KANSAS CITY, MO 64108

1301 BURLINGTON NORTH KANSAS CITY, MO 64116

TERMINAL - 17932172

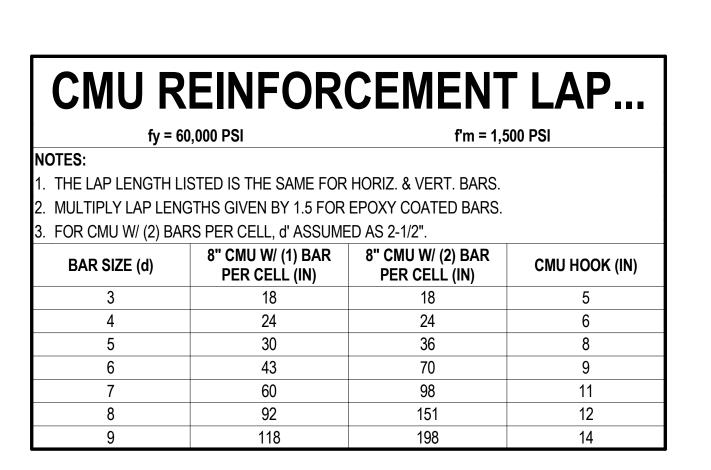
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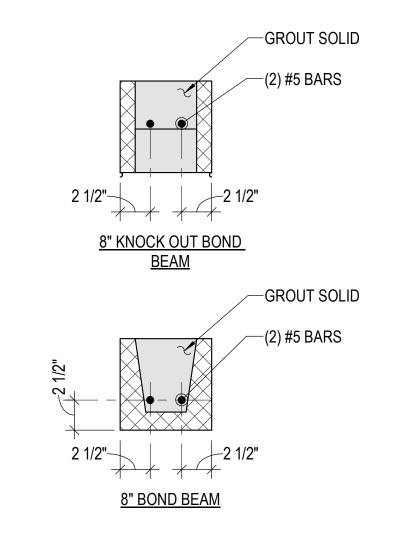
FRAMING DETAILS

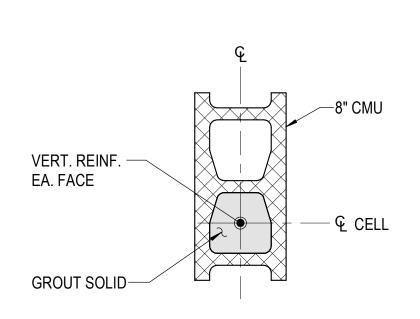
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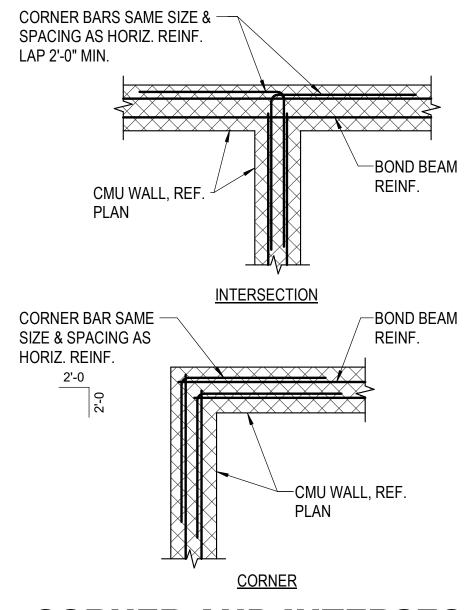
S-554

SECTION AT DROP-OFF CANOPY







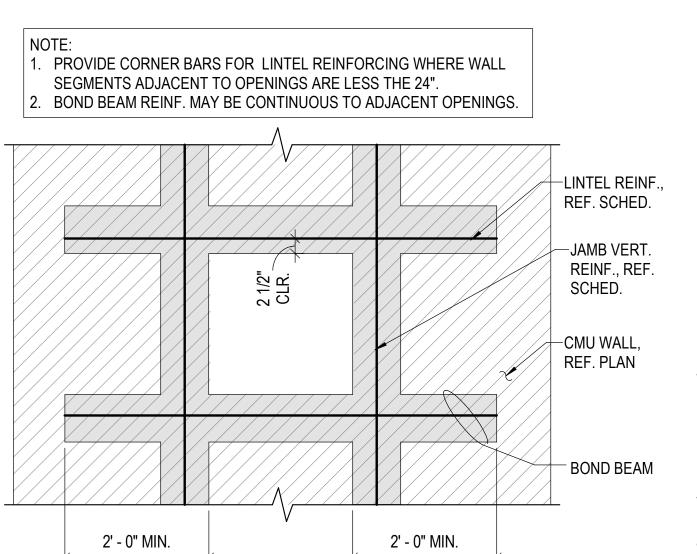


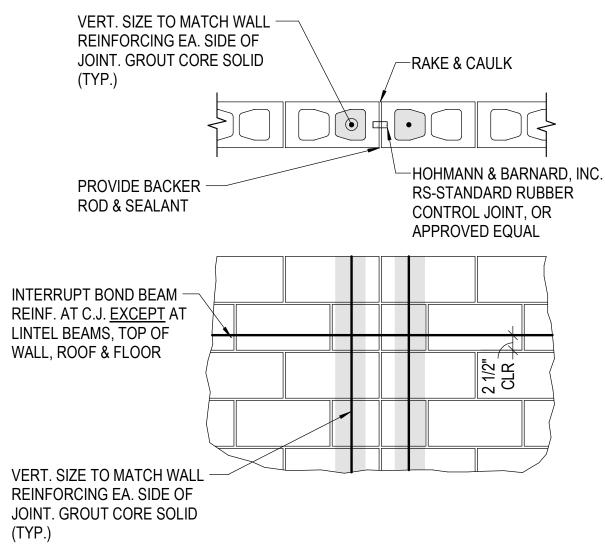
3/4" = 1'-0"

CORNER AND INTERSECT. REINF.

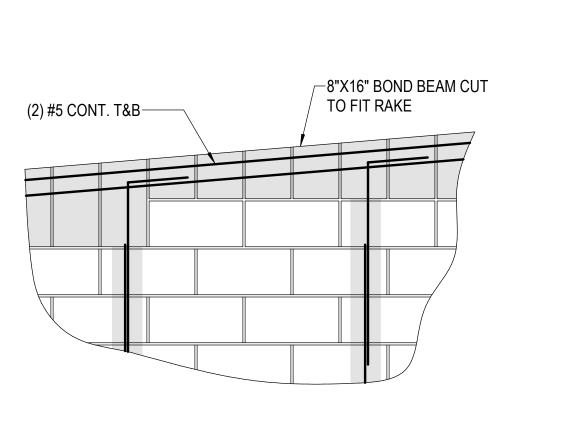
TYP. CMU BOND BEAM REINF.

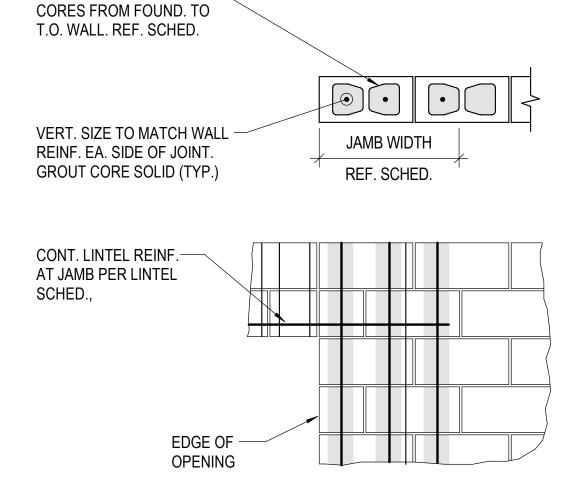
TYP. CMU VERTICAL CELL REINF. **NO SCALE**





NO SCALE





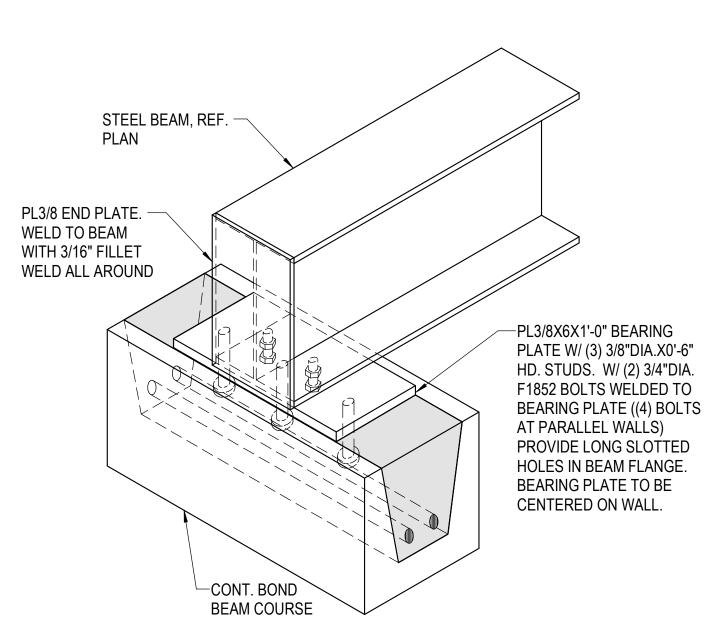
JAMB BARS/FILLED-

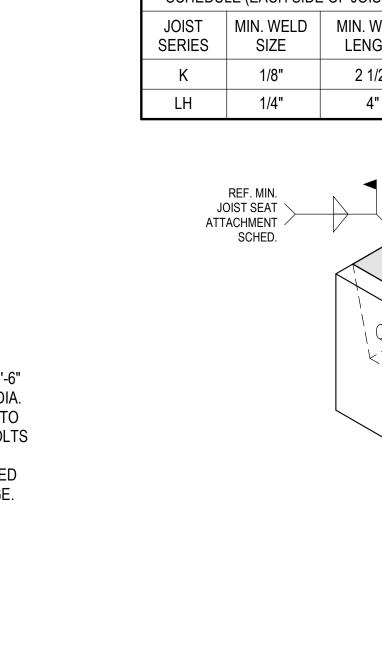
TYP. CMU OPENING REINF. **NO SCALE**

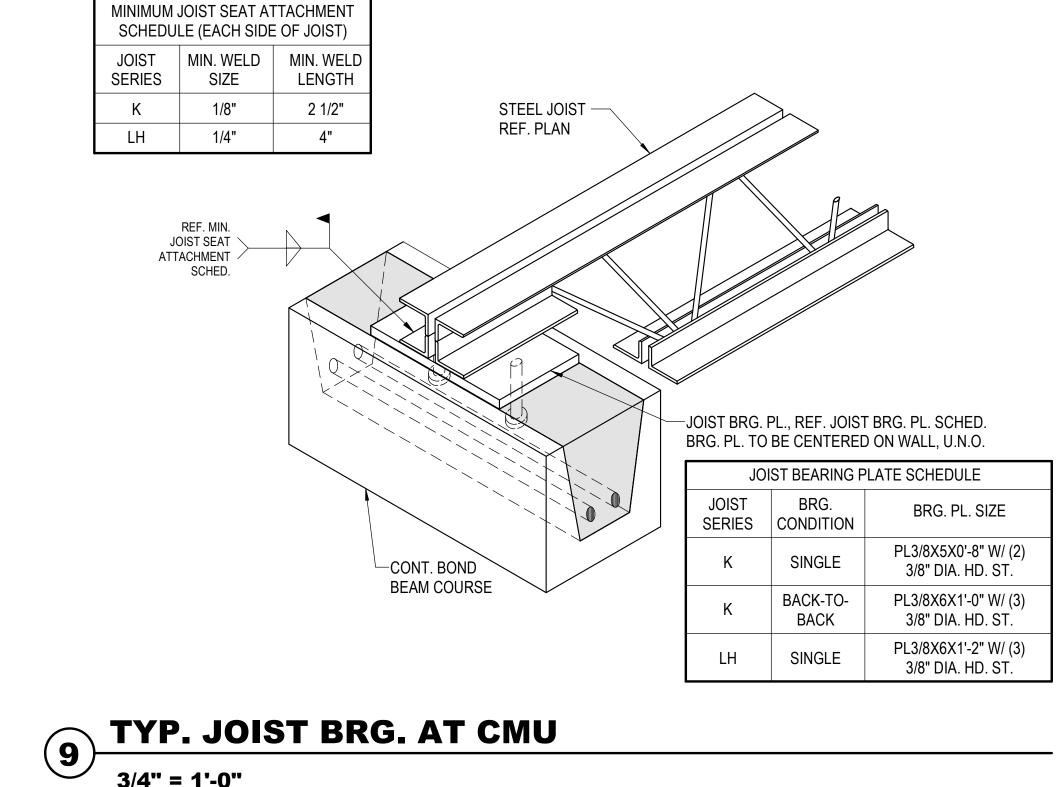
5 TYP. CMU CONTROL JOINT **NO SCALE**

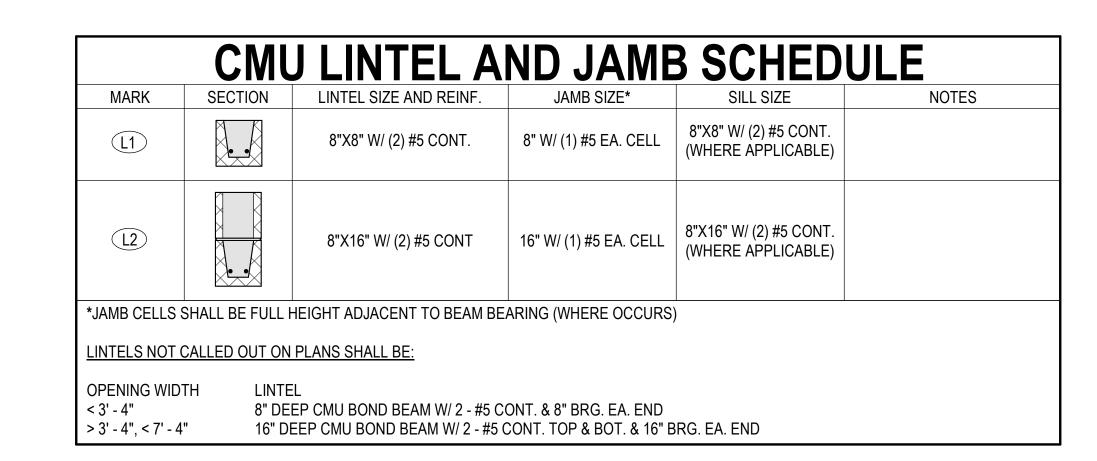
6 TYP. CMU WALL RAKE DETAIL **NO SCALE**

7 TYP. CMU JAMB DETAIL 3/4" = 1'-0"









8 TYP. BEAM BRG. AT CMU

NO SCALE

3/4" = 1'-0"



3/4" = 1'-0"

CONSTRUCTION
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1627 MAIN STREET, SUITE 600 KANSAS CITY, MO 64108

KANSAS CITY, MO 64108







1301 BURLINGTON

NORTH KANSAS CITY, MO 64116

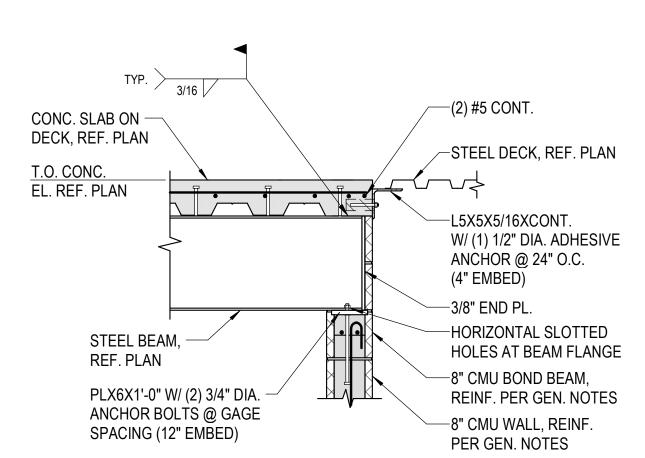
TERMINAL - 17932172 GENERAL CITY PRO

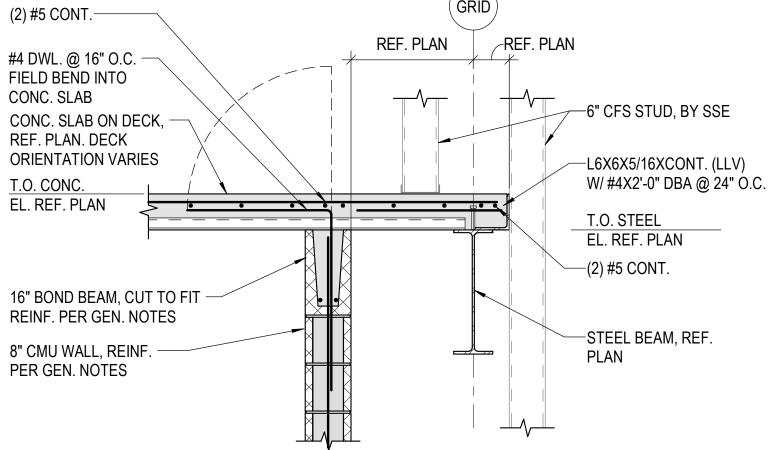


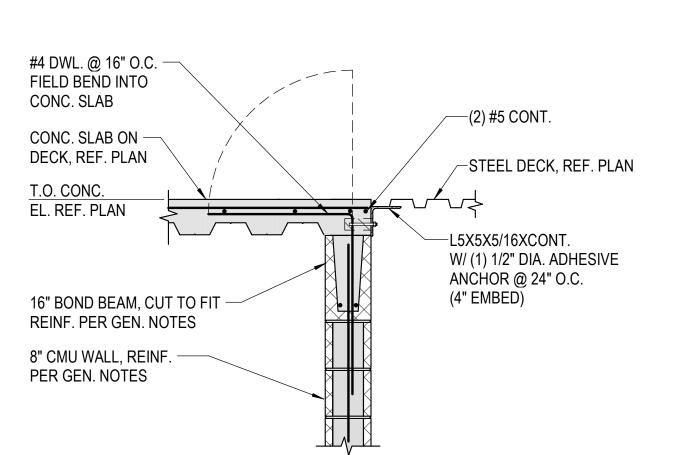
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> TYPICAL CMU **DETAILS**







COMP. FRAMING AT CMU WALL

-L6X4X5/16XCONT

-STEEL DECK,

REF. PLAN

—STEEL JOIST,

REF. PLAN

EDGE ANGLE

3/16

1100 MAIN ST, STE 1800 KANSAS CITY, MO 64105

CMT

1627 MAIN STREET, SUITE 600 KANSAS CITY, MO 64108

1627 MAIN STREET, SUITE 100

KANSAS CITY, MO 64108

CONSTRUCTION
As Noted on Plans Review

Lee's Summit, Misso 03/11/2025

PEC AUTHORITY NUMBER: EGC 000465I

NORTH KANSAS CITY, MO 64116

1301 BURLINGTON

TERMINAL - 17932172 AVI, JEC

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S-802

CMU DETAILS

COMP. FRAMING AT CMU WALL

/─(2) #5 CONT. -L5X5X5/16XCONT. NOTCH VERTICAL LEG AT #4 DWL. @ 16" O.C. — BEAM LOCATION. FIELD BEND INTO CONC. SLAB CONC. SLAB ON -DECK, REF. PLAN -STEEL DECK, REF. PLAN EL. REF. PLAN 16" BOND BEAM, CUT TO FIT REINF. PER GEN. NOTES -STEEL BEAM. REF. PLAN 8" CMU WALL, REINF. PER GEN. NOTES -L6X6X3/8X0'-8" W/ 3/8" STIFFENER & (2) 1/2" DIA.. ADHESIVE ANCHORS (5"

BEAM FRAMING INTO CMU WALL

PUDDLE WELD @ EACH FLUTE

DIA.X0'-4" HD. STUD @ 16" O.C.

-L3X3X1/4XCONT. W/ 1/2"

3/4" = 1'-0"

STEEL DECK, REF. -

DECK ORIENTATION

T.O. STEEL/CMU EL. VARIES

3/4" = 1'-0"

VARIES.

REF. PLAN

SPACING AND 5" EMBED)

COMP. FRAMING AT CMU WALL

3/4" = 1'-0" —(2) #5 CONT. -L5X5X5/16XCONT. #4 DWL. @ 16" O.C. NOTCH VERTICAL LEG AT JOIST LOCATION. FIELD BEND INTO CONC. SLAB 1/4 CONC. SLAB ON -DECK, REF. PLAN -STEEL DECK, REF. PLAN 16" BOND BEAM, CUT TO FIT REINF. PER GEN. NOTES STEEL JOIST. REF. PLAN 8" CMU WALL, REINF. / STIFFENER TO PER GEN. NOTES ANGLE -BENT PL. 3/8X6X10X0'-8" W/ 3/8" STIFFENER & (2) 1/2" DIA.. ADHESIVE ANCHORS (5" SPACING AND 5" EMBED)

REF. PLAN

-16" BOND BEAM, -

NOTCH AS REQ'D.

FOR HSS

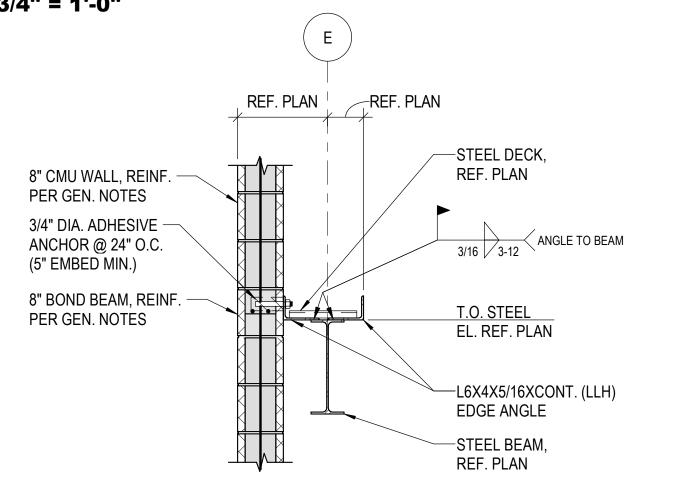
OUTRIGGER

REF. PLAN

-8" CMU WALL,

REINF. PER GEN. NOTES FRAMING SECTION AT CMU 3/4" = 1'-0"

DECK BRG. DETAIL





3/4" DIA. ADHESIVE

ANCHOR @ 24" O.C.

JOIST BEARING PL. W/

HD. STUDS PER DETAIL

8" BOND BEAM, REINF

PER GEN. NOTES

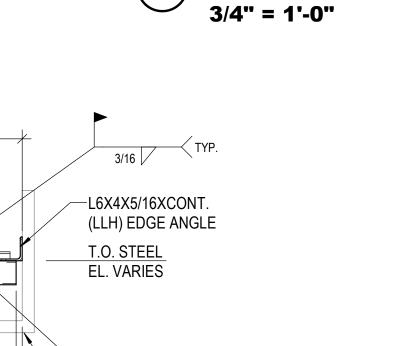
8" CMU WALL, REINF.

PER GEN. NOTES

(5" EMBED MIN.)



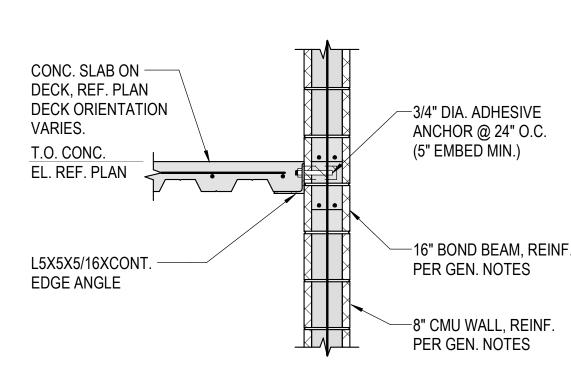
PLAN

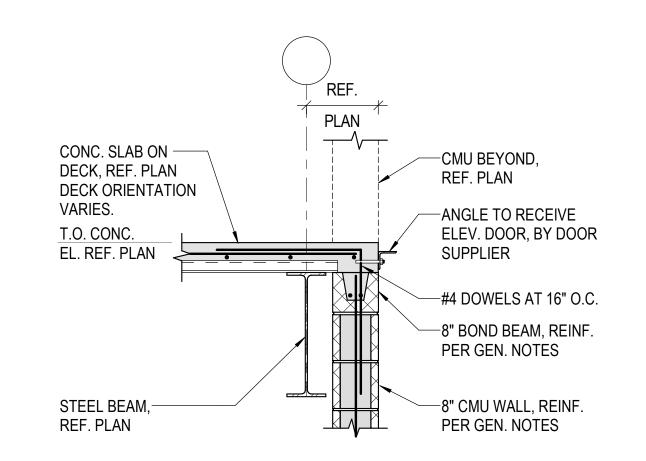


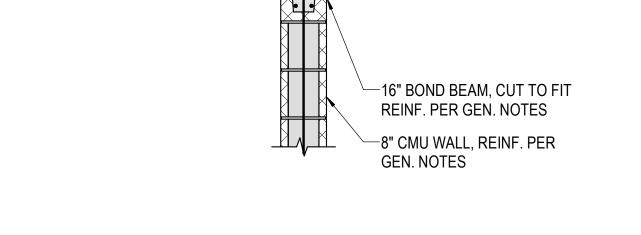
-HSS4X4X1/4 OUTRIGGER

-SOFFIT, REF. ARCH

-6" CFS STUD, BY SSE







DECK BRG. AT 8" CMU WALL

10 HSS OUTRIGGER AT ELEVATOR



FRAMING SECTION AT ELEVATOR 3/4" = 1'-0"

3/4" = 1'-0"

STEEL DECK,

PL3/8X6X8 BEARING -

HD STUDS. BEARING

ON WALL. TYP.

PLATE W/ (2) 3/8"DIA.X0'-6"

PLATE TO BE CENTERED

REF. PLAN