GENERAL NOTES

1. THE STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE. 2018 EDITION, AND ALL APPLICABLE REGULATIONS OF THE CITY OF LEE'S SUMMIT, MO.

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2.	THE LOADS THAT HAVE BEEN USED IN THE STRUCTURAL DESIGN I	NCLUDE THE FOLLOWING:
	LIVE LOAD AT MEZZANINE PLATFORM LIVE LOAD AT ROOF	100 PSF 20 PSF
	SNOW LOAD DESIGN DATA: 1. GROUND SNOW LOAD: 2. FLAT -ROOF SNOW LOAD 3. SNOW EXPOSURE FACTOR 4. SNOW LOAD IMPORTANCE FACTOR 5. DRIFT LOADING	PER ASCE 7-16 20 PSF 16 PSF 1.0 1.1 REF. 2/S1.2
	WIND LOADS DESIGN DATA (ULTIMATE):	PER ASCE 7-16

1. BASIC WIND SPEED RISK CATEGORY . WIND EXPOSURE 4. INTERNAL PRESSURE COEFFICIENT (ENCLOSED) 5. COMPONENTS AND CLADDING PRESSURES

REF. 3/S1.2 EARTHQUAKE LOAD DESIGN DATA: PER ASCE 7-16 . RISK CATEGORY SEISMIC IMPORTANCE FACTOR, IE: 1.25 MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETER 0.068

5. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETER

6. SEISMIC DESIGN CATEGORY: 7. BASIC SEISMIC FORCE RESISTING SYSTEM(S): STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE 8. RESPONSE MODIFICATION COEFFICIENT(S), R: ANALYSIS PROCEDURE:

ALL LIVE LOADS HAVE BEEN REDUCED BASED ON TRIBUTARY AREAS IN ACCORDANCE WITH CODE PROVISIONS AND HAVE BEEN APPLIED TO BOTH ALTERNATE AND ADJACENT SPANS WHERE APPROPRIATE TO DERIVE GOVERNING CONDITIONS.

DEAD LOADS HAVE BEEN CALCULATED TO INCLUDE THE ACTUAL WEIGHT OF ALL WORK SHOWN ON THE STRUCTURAL, MECHANICAL, ELECTRICAL AND ARCHITECTURAL DRAWINGS. NO OTHER EQUIPMENT SHALL BE PLACED ON OR HUNG FROM THE ROOF SYSTEM WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER. ROOF-MOUNTED HVAC UNITS SHALL BE PLACED WITHIN THE DESIGNATED AREAS SHOWN ON THE FRAMING

3. COMPLETE SHOP DRAWINGS FOR THE STRUCTURAL WORK SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCEMENT OF CONSTRUCTION, IN ACCORDANCE WITH THE SPECIFICATIONS. SUCH REVIEW BY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR CORRECT FABRICATION AND CONSTRUCTION OF THE WORK. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR MATERIALS PURCHASED PRIOR TO REVIEW OF SHOP DRAWINGS. THE CONTRACTOR SHALL REVIEW AND STAMP ALL SHOP DRAWINGS PRIOR TO SUBMITTING THE DRAWINGS TO THE ARCHITECT/ENGINEER.

4. THE USE OF ELECTRONIC FILES OR REPRODUCTION OF THESE CONTRACT DOCUMENTS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SHALL NOT BE PERMITTED.

5. ANY DEVIATION FROM, ADDITION TO, SUBSTITUTION FOR, OR MODIFICATION TO THE STRUCTURE OR ANY PART OF THE STRUCTURE DETAILED ON THESE DRAWINGS SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR REVIEW. SHOP DRAWINGS THAT ARE SUBMITTED FOR REVIEW DO NOT CONSTITUTE "IN-WRITING" UNLESS IT IS CLEARLY NOTED THAT SPECIFIC CHANGES ARE BEING SUGGESTED.

THE CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS NOT SHOWN AND FOR EXACT LOCATIONS OF ALL ARCHITECTURAL DETAILS. THE CONTRACTOR SHALL COMPARE THE STRUCTURAL AND ARCHITECTURAL DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO COMPLETION OF THE SHOP DRAWINGS.

7. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS AT THE SITE AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THE ACTUAL CONDITIONS AND INFORMATION SHOWN ON THE DRAWINGS BEFORE PROCEEDING WITH THE WORK.

PRINCIPAL OPENINGS ARE SHOWN ON THE STRUCTURAL DRAWINGS. CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR SLEEVES, CURBS, INSERTS AND OTHER OPENINGS NOT SHOWN. THE CONTRACTOR SHALL PROVIDE FOR ALL OPENINGS, WHETHER SHOWN ON THE STRUCTURAL DRAWINGS OR NOT. SIZE AND LOCATION OF ALL OPENINGS SHALL BE VERIFIED BY THE CONTRACTOR. ANY DEVIATION FROM OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR APPROVAL PRIOR TO CONSTRUCTION.

9. THE STRUCTURAL DRAWINGS ARE NOT TO BE SCALED FOR DETERMINATION OF QUANTITIES, LENGTHS, OR FIT OF MATERIALS.

10. THE GENERAL CONTRACTOR SHALL OBTAIN ALL CONTRACT DOCUMENTS & LATEST ADDENDA AND SUBMIT SUCH DOCUMENTS TO ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS OR FABRICATION OF ANY

11. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHODS OF CONSTRUCTION UNLESS SO STATED OR NOTED. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE WORKMEN AND OTHER PERSONS DURING CONSTRUCTION.

12. THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SHORING OF ALL STRUCTURAL WORK AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONDITION WHICH, IN HIS OPINION, MIGHT ENDANGER THE STABILITY OF THE STRUCTURE OR CAUSE DISTRESS IN THE STRUCTURE.

13. CONSTRUCTION MATERIALS SHALL NOT BE STORED ON FLOORS OR ROOFS IN EXCESS OF THE DESIGN LIVE LOADS WHICH ARE INDICATED ON THE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENFORCE THIS REQUIREMENT. IMPACT SHALL BE AVOIDED WHEN PLACING MATERIALS ON FLOORS OR ROOFS.

14. CONSTRUCTION SEQUENCE SHALL BE COORDINATED BY THE CONTRACTOR AS REQUIRED FOR INSTALLATION OF ALL STRUCTURAL COMPONENTS.

15. FIELD INSPECTION REPORTS SHALL BE SUBMITTED TO THE ENGINEER AS OUTLINED IN THE SPECIFICATIONS. INSPECTIONS SHALL BE PROVIDED BY A QUALIFIED AGENCY HIRED BY

EARTHWORK AND FOUNDATIONS

1. THE FOUNDATION DESIGN IS BASED ON A SUBSURFACE EXPLORATION AND REPORT BY CFS ENGINEERS (PROJECT NO. 21-5355) DATED MAY 21, 2021. THE CONTRACTOR SHALL OBTAIN A COPY OF THIS REPORT, AND THE REPORT SHALL BE CONSIDERED A PART OF THE CONTRACT DOCUMENTS.

2. A GEOTECHNICAL ENGINEER SHALL VERIFY THAT SOILS OF THE DESIGN BEARING CAPACITY HAVE BEEN ENCOUNTERED AND THAT THE BUILDING PAD IS SUITABLE FOR CONSTRUCTION.

3. THE FOUNDATION DESIGN IS BASED ON POTENTIAL SLAB TOTAL AND DIFFERENTIAL MOVEMENTS OF ONE (1) INCH AND ONE-HALF (1/2) INCH, RESPECTIVELY. THE SLAB/FOUNDATION DESIGN IS BASED ON THE "GEOTECHNICAL ENGINEERING RECOMMENDATIONS" SECTION OF THE GEOTECHNICAL REPORT. THE CONTRACTOR SHALL PREPARE THE SUBGRADE AS OUTLINED IN THE REPORT/SECTION.

4. CONTINUOUS AND ISOLATED FOOTINGS ARE DESIGNED FOR AN ALLOWABLE NET BEARING PRESSURE OF 2,500 PSF FOR TOTAL LOAD. THESE VALUES ARE APPLICABLE FOR FOOTINGS BEARING ON FAT CLAY OR LVC AS OUTLINED IN THE GEOTECHNICAL REPORT. ALL FOOTINGS MUST BEAR A MINIMUM OF 36 INCHES BELOW FINISH GRADE.

5. A QUALIFIED SOIL TECHNICIAN SHALL PERFORM SUFFICIENT IN- PLACE DENSITY TESTS DURING FILL OPERATIONS TO VERIFY THAT PROPER LEVELS OF COMPACTION ARE ATTAINED AND THAT FOOTINGS ARE BEARING ON THE PROPER MATERIAL. THE CONTRACTOR/OWNER SHALL USE THE SAME GEOTECHNICAL ENGINEER THAT PREPARED THE GEOTECHNICAL REPORT FOR FOUNDATION INSPECTIONS.

6. AFTER THE FOOTINGS HAVE BEEN EXCAVATED AND BEFORE REINFORCING STEEL PLACEMENT, A GEOTECHNICAL ENGINEER SHALL VERIFY SOILS OF THE DESIGN BEARING CAPACITY HAVE BEEN ENCOUNTERED. A WRITTEN REPORT, INCLUDING REMEDIAL ACTION, SHALL BE PROVIDED TO THE STRUCTURAL ENGINEER OF RECORD.

7. ALL GRADE BEAMS AND FOUNDATION WALLS SHALL BE FORMED OVER THEIR ENTIRE HEIGHT. EARTH FORMING IS NOT PERMITTED.

8. CONCRETE FOR SLABS ON FILL SHALL BE PLACED OVER A CONTINUOUS 15 MIL. MOISTURE BARRIER OVER A 4 INCH LAYER OF GRAVEL. ALL SEAMS SHALL BE LAPPED 12 INCHES AND TAPED. VAPOR BARRIER SHALL CONFORM TO ASTM E 1745 CLASS A AND ASTM E 96 WITH A PERMEANCE RATING OF 0.01 PERMS OR LOWER.

9. POSITIVE SITE DRAINAGE SHALL BE MAINTAINED TO DIVERT WATER AWAY FROM THE BUILDING AREAS. WEATHER PERIODS WILL PRODUCE PROBLEMS DUE TO SOIL SATURATION. CONSULT THE GEOTECHNICAL ENGINEER REPORT OR GEOTECHNICAL ENGINEER FOR METHODS OF IMPROVING HIGHLY SATURATED SOILS.

10. THE ABOVE REQUIREMENTS ARE A SUMMARY OF THE REQUIREMENTS OF THE GEOTECHNICAL REPORT. CONTRACTOR SHALL NOT BE ABSOLVED FROM THE RESPONSIBILITY OF REVIEWING AND COMPLYING WITH THE ENTIRE GEOTECHNICAL

CAST IN PLACE REINFORCED CONCRETE

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".

2. STEEL REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60, EXCEPT WELDED REINFORCEMENT WHICH SHALL CONFORM TO ASTM A706, GRADE 60. REINFORCEMENT SHALL NOT BE WELDED UNLESS SHOWN ON THE DRAWINGS. ALL HOOKS SHALL BE STANDARD ACI 90 DEGREE UNLESS NOTED OTHERWISE.

. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185, GRADE 65. ALL WELDED WIRE FABRIC SHALL BE SUPPLIED IN FLAT SHEETS. NOT IN ROLLS, LAP WELDED WIRE FABRIC A MINIMUM OF 2 CROSSWIRE SPACINGS.

4. ALL CONCRETE SHALL UTILIZE NORMAL WEIGHT AGGREGATE UNLESS NOTED OTHERWISE.

5. CONCRETE SHALL MEET THE FOLLOWING PERFORMANCE CRITERIA:

TRENGTH MAX. W/C RATIO GRADE BEAMS 3000 PSI 3" - 5" 0.45 SLAB ON GRADE (b, c) 3000 PSI 0.50

a. CONCRETE SLUMPS GIVEN ARE AT THE POINT OF PLACEMENT.

b. ALL EXTERIOR SLABS SHALL CONTAIN 3%-6% OF AIR ENTRAINMENT. c. MAXIMUM SLAB POUR SHALL NOT EXCEED A LENGTH OF 150 FEET IN EITHER DIRECTION NOR AN AREA OF 10,000 SQUARE FEET

THE TESTING LABORATORY SHALL BE NOTIFIED AFTER THE MILD STEEL REINFORCEMENT AND EMBEDS ARE POSITIONED PRIOR TO EACH CONCRETE PLACEMENT. NO CONCRETE SHALL BE PLACED UNTIL THESE ITEMS ARE CHECKED AND APPROVED BY THE TESTING

7. PERFORM SAWCUTS AS INDICATED ON THE FOUNDATION PLANS AS QUICKLY AS POSSIBLE AFTER PLACING CONCRETE WITHOUT DISLODGING AGGREGATE. ALL SAWCUTS SHALL BE COMPLETED WITHIN 8 HOURS OF CONCRETE PLACEMENT. SUSPENDED SLABS AND POST TENSION SLABS ON GRADE SHALL NOT HAVE SAWCUTS.

117 MPH

+ 0.18

0.106

0.109

EQUIVALENT LATERAL FORCE

1. STRUCTURAL STEEL SHALL BE NEW STEEL AND SHALL CONFORM TO THE AISC "SPECIFICATION FOR STRUCTURAL STEEL FOR BUILDINGS". BOLTED CONNECTIONS (UNLESS NOTED OTHERWISE) SHALL CONFORM TO THE REQUIREMENTS OF THE AISC

2. STEEL SHAPES AND FASTENERS SHALL CONFORM TO THE ASTM SPECIFICATIONS BELOW:

"SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".

SHAPE WIDE FLANGE CHANNELS A36 ANGLES A500 Gr. B PIPE A53 Gr. B PLATES A36 (or A572 Gr. 50) BASE PLATES REF. SCHED. HIGH STRENGTH BOLTS ANCHOR BOLTS F1554, GRADE 55 (WELDABILITY PER F1554

3. ALL STRUCTURAL STEEL CONNECTIONS AND DETAILS SHALL CONFORM TO THE AISC "CODE OF STANDARD PRACTICE FOR STEEL, BUILDINGS AND BRIDGES."

SUPPLEMENT)

. WELDED CONSTRUCTION SHALL CONFORM TO AWS D-1.1, "STRUCTURAL WELDING CODE." WELDING PROCESSES AND OPERATORS SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATIONS PROCEDURE." ELECTRODES FOR FIELD AND SHOP WELDS SHALL BE E70XX, U.N.O.

5. SHEAR STUDS SHALL CONFORM TO ASTM A108, HEADED ANCHORS.

6. STEEL MEMBERS SHALL NOT BE SPLICED EXCEPT AS SHOWN ON THE DRAWINGS.

7. ALL STEEL BEAMS SHALL BE ERECTED WITH NATURAL CAMBER UP.

8. ALL CONNECTIONS OF NON-COMPOSITE BEAMS SHALL BE DESIGNED BY THE FABRICATOR UNLESS OTHERWISE INDICATED. CONNECTIONS SHALL BE DESIGNED TO RESIST A FORCE OF 55% OF THE AISC ALLOWABLE BEAM LOAD, OR THE REACTION SPECIFIED, WHICHEVER IS GREATER. ALL CONNECTION DESIGN REACTIONS SHALL BE NOTED ON THE SHOP

9. ALL EXTERIOR STEEL EXPOSED TO WEATHER, INCLUDING LINTELS, SHALL BE HOT-DIPPED GALVANIZED. FABRICATOR TO PREPARE MATERIAL TO BE GALVANIZED TO MEET THE GALVANIZER'S REQUIREMENTS AND THE SPECIFICATIONS.

10. CONNECTION DETAILS SHALL TAKE INTO CONSIDERATION CONSTRUCTION SEQUENCING AND POSSIBLE OBSTRUCTIONS FROM ADJACENT COMPONENTS SUCH AS RETAINING

11. GROUT AT STEEL COLUMN BASE PLATES SHALL BE NON-SHRINK, NON-METALLIC AGGREGATE TYPE, COMPLYING WITH ASTM C1107 AND CAPABLE OF DEVELOPING A MINIMUM COMPRESSIVE STRENGTH OF 7,000 PSI AT 28 DAYS.

STEEL JOISTS

1. FABRICATION AND ERECTION OF ALL OPEN WEB STEEL JOISTS, JOIST GIRDERS, AND BRIDGING SHALL CONFORM TO THE STANDARDS OF THE STEEL JOIST INSTITUTE.

2. JOIST MANUFACTURER SHALL PROVIDE CAMBER IN COMFORMANCE WITH SJI SPECIFICATIONS.

3. ALL BRIDGING SHALL BE WELDED OR BOLTED AT THE ENDS. ALL JOISTS SHALL BE WELDED AT THE ENDS, UNLESS SHOWN OTHERWISE. ALL JOIST GIRDERS SHALL BE BOLTED AT THE ENDS, UNLESS SHOWN OTHERWISE. BRIDGING SHALL BE DESIGNED FOR A NET WIND UPLIFT AS NOTED.

4. ANY HANGERS SUPPORTED FROM JOISTS SHALL BE LOCATED AT TOP OR BOTTOM CHORD PANEL POINTS AND SHALL BE CONNECTED WITHOUT FIELD WELDING OR DRILLING HOLES IN

5. MECHANICAL DUCTS, ELECTRICAL EQUIPMENT, CONDUIT, LIGHTING FIXTURES, AND PIPING SHALL NOT BE SUPPORTED FROM JOIST BRIDGING.

6. ALL PIPING LARGER THAN 4" DIAMETER RUNNING PARALLEL TO JOISTS SHALL BE SUPPORTED FROM A MINIMUM OF 2 JOISTS AND SUPPORTED AT PANEL POINTS ONLY.

7. ALL PIPING LARGER THAN 4" DIAMETER RUNNING PERPENDICULAR TO JOISTS SHALL BE SUPPORTED AT PANEL POINTS FROM AT LEAST EVERY SECOND JOIST.

8. PIPING LOADS EXCEEDING 4 PSF SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER.

CURTAINWALL & STOREFRONT CONNECTIONS / SUPPORT

1. GLAZED CURTAINWALL MANUFACTURER SHALL PROVIDE ALL BRACING AND CONNECTIONS TO THE STRUCTURE. CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MISSOURI SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW.

METAL DECKING

1. ALL METAL DECKING SHALL COMPLY WITH THE SPECIFICATIONS OF THE STEEL DECK INSTITUTE FOR DESIGN AND ERECTION. GALVANIZED DECKS SHALL CONFORM TO ASTM

A653. PAINTED DECKS SHALL CONFORM TO ASTM A1008.

2. METAL DECKING SHALL BE INSTALLED CONTINUOUSLY ACROSS 3 OR MORE SPANS. IF LESS THAN THREE SPANS ARE UTILIZED TEMPORARY SHORING MAY BE REQUIRED PER MANUFACTURER'S RECOMMENDATIONS. DECKING SHALL BE ATTACHED TO STEEL, JOISTS AND FRAMEWORK IMMEDIATELY AFTER ALIGNMENT.

3. UNLESS NOTED OTHERWISE, ROOF DECK SHALL BE 22 GAUGE, 1-1/2" WIDE RIB DECK (TYPE B), ASTM A1008 STRUCTURAL QUALITY, MINIMUM YIELD POINT OF 33,000 PSI, WITH

MANUFACTURER'S STANDARD BAKED ON COATING. REF. 1/S1.2 FOR DECK ATTACHMENT. PROVIDE 5/8" DIA. PUDDLE WELDS AT 6" O.C. AT PERIMETER. 4. ALL DECK IS TO BE FABRICATED TO RUN CONTINUOUSLY OVER ALL OPENINGS. DO NOT CUT

OPENING IN DECK PRIOR TO INSTALLING SUPPORT FRAMING BELOW. 5. SUSPENDED CEILINGS, LIGHT FIXTURES, DUCTS, OR OTHER UTILITIES SHALL NOT BE

SUPPORTED BY THE STEEL ROOF DECK. 6. FLOOR DECK REINFORCING SHALL BE SUPPORTED AT MID-DEPTH OF CONCRETE ABOVE

7. DECK FINISH SHALL BE REPAIRED WITH TOUCH-UP PAINT IMMEDIATELY AFTER WELDING TO

COLD FORMED METAL FRAMING

PREVENT CORROSION.

1. COLD FORMED METAL FRAMING MANUFACTURER SHALL DESIGN THE COMPLETE METAL FRAMING SYSTEM, INCLUDING BUT NOT LIMITED TO BRACING AND CONNECTIONS TO THE METAL STRUCTURE, UNLESS SHOWN ON STRUCTURAL DRAWINGS. CALCULATIONS AND SHOP DRAWINGS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MISSOURI SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW. GENERAL CONTRACTOR SHALL PROVIDE ALL COLD FORMED METAL FRAMING AS REQUIRED.

2. WITH EACH TYPE OF METAL FRAMING REQUIRED, PROVIDE MANUFACTURER'S STANDARD STEEL RUNNERS (TRACKS), BLOCKING LINTELS, CLIP ANGLES, SHOES, REINFORCEMENTS, FASTENERS, AND ACCESSORIES AS RECOMMENDED BY MANUFACTURER FOR APPLICATIONS INDICATED, AS NEEDED TO PROVIDE A COMPLETE METAL FRAMING SYSTEM.

3. FOR 16 GAUGE AND HEAVIER STUDS AND JOISTS, FABRICATE COMPONENTS OF STEEL SHEET WITH A MINIMUM YIELD POINT OF 50,000 PSI, CONFORMING TO ASTM A653 AND C955.

4. FOR 16 GAUGE AND HEAVIER TRACK, FABRICATE COMPONENTS OF STEEL SHEET WITH A MINIMUM YIELD POINT OF 33,000 PSI, CONFORMING TO ASTM A653 AND C955.

5. FOR 18 GAUGE AND LIGHTER STUDS, JOISTS, AND TRACK, FABRICATE COMPONENTS OF STEEL SHEET WITH A MINIMUM YIELD POINT OF 33,000 PSI, CONFORMING TO ASTM A653 AND

6. PROVIDE MANUFACTURER'S STANDARD GALVANIZED FINISH TO METAL FRAMING COMPONENTS COMPLYING WITH ASTM A653.

7. THE COLD FORMED FRAMING DESIGN SHALL INCLUDE BUT SHALL NOT BE LIMITED TO THE **FOLLOWING DESIGN ELEMENTS:**

 WALL STUDS INCLUDING JAMB LOCATIONS HEADERS DESIGNED FOR GRAVITY AND LATERAL LOADING

TOP AND BOTTOM TRACKS INCLUDING ATTACHMENTS AT SLIP TRACKS

 ALL CONNECTIONS SHALL SPECIFY SIZE AND QUANTITY OF FASTENERS ANY BRACING OF METAL STUDS REQUIRED THAT IS NOT INDICATED ON THE STRUCTURAL DRAWINGS

8. MAXIMUM ALLOWABLE DEFLECTION FOR VERTICAL LIGHT GAUGE MEMBERS BACKING BRICK IS L/600 (L/360 FOR OTHER MATERIALS). DEFLECTION CALCULATIONS SHALL BE BASED ON ABSOLUTE DEFLECTIONS (NOT RELATIVE DEFLECTIONS).

9. DEFLECTION OF VERTICAL STUDS WITH PARAPET SHALL BE CALCULATED BASED ON ABSOLUTE DEFLECTION, NOT RELATIVE DEFLECTION.

REINFORCED MASONRY

1. ALL REINFORCED MASONRY SHALL CONFORM TO THE PROVISIONS OF ACI 530.1/ASCE 6 (WITH EXCEPTIONS NOTED IN THE SPECIFICATIONS). CONSTRUCTION SHALL BE RUNNING BOND UNLESS NOTED OTHERWISE.

2. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 NORMAL WEIGHT UNITS WITH A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 1900 PSI.

3. MORTAR SHALL CONFORM TO ASTM C270, TYPE M OR S. AGGREGATES FOR MORTAR SHALL CONFORM TO ASTM C144. MORTAR SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI AT 28 DAYS.

4. GROUT SHALL CONFORM TO ASTM C476. AGGREGATES FOR GROUT SHALL CONFORM TO ASTM C-404. GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT 28

5. MASONRY CONSTRUCTION SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (fm) OF 1900

6. SPECIAL INSPECTION SHALL BE PROVIDED AS PRESCRIBED IN THE SPECIAL INSPECTION

7. BOND BEAMS SHALL BE CONSTRUCTED WITH PORTLAND CEMENT GROUT HAVING A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS, AND A MAXIMUM AGGREGATE

8. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, EXCEPT WELDED REINFORCEMENT SHALL CONFORM TO ASTM A706, GRADE 60.

9. HORIZONTAL JOINT REINFORCEMENT SHALL BE FACTORY FABRICATED, LADDER TYPE, 9 GAGE WIRE CONFORMING TO ASTM A82, AND PLACED AT 16" ON CENTER (TYPICAL U.N.O.)

10. ALL CELLS CONTAINING REINFORCEMENT, BOLTS, OR OTHER METAL ANCHORS SHALL BE GROUTED SOLID. ANY CELLS AT OR BELOW GRADE SHALL BE GROUTED SOLID, WHETHER

11. BOND BEAM REINFORCING SHALL CONTINUE THROUGH CONTROL JOINTS AT ALL FLOOR AND ROOF LEVELS AS WELL AS AT ALL LINTEL LOCATIONS.

12. ALL WALLS AND LINTELS SHALL BE TEMPORARILY BRACED/SHORED AS REQUIRED UNTIL CONSTRUCTION IS COMPLETE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING/SHORING.

13. CONTROL JOINTS SHALL NOT BE PLACED ABOVE OR WITHIN 2'-0" OF OPENINGS OR WITHIN A BOND BEAM. NOTIFY THE STRUCTURAL ENGINEER OF ANY CONTROL JOINTS VIOLATING

14. CONTRACTOR SHALL PROVIDE CONTROL JOINTS IN CMU CONSTRUCTION. JOINT SPACING SHALL NOT EXCEED 1.5 TIMES THE WALL HEIGHT (1.5 x H) OR 25 FEET, WHICHEVER IS LESS. PROVIDE A JOINT WITHIN 10 FEET OF ALL WALL CORNERS. COORDINATE ALL JOINT LOCATIONS WITH ARCHITECTURE AND SUBMIT A JOINT LAYOUT PLAN TO ARCHITECT/ENGINEER FOR REVIEW & APPROVAL

WELDING NOTES

REINFORCED OR NOT

1. WHEN WELDS ARE NOT CALLED OUT ON THE DRAWINGS, THEY ARE MINIMUM SIZE CONTINUOUS FILLET WELDS IN ACCORDANCE WITH AWS D1.1. FILLET WELDS NOT

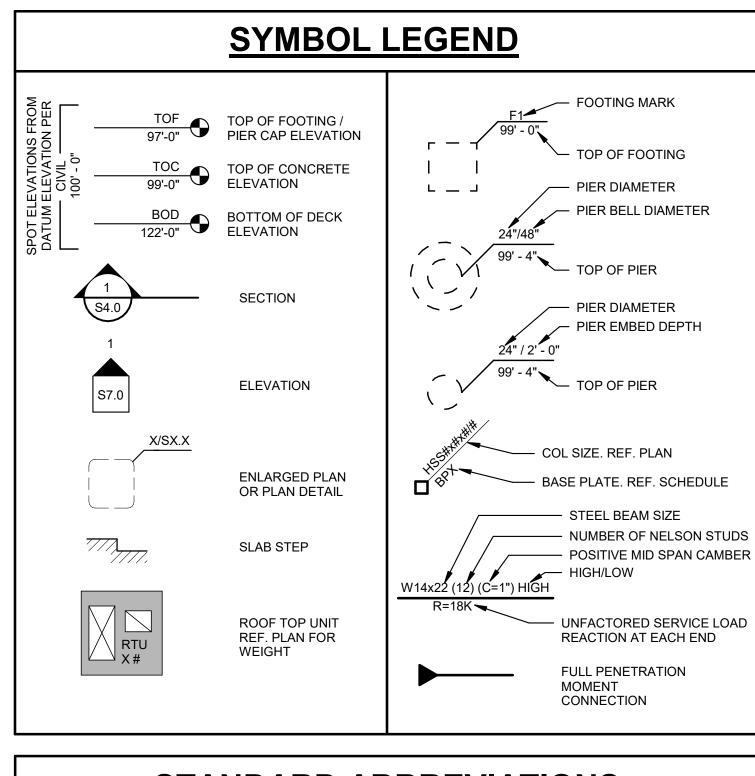
2. UNLESS NOTED OTHERWISE ON THE DRAWINGS, ALL GROOVE WELD SHALL BE FULL

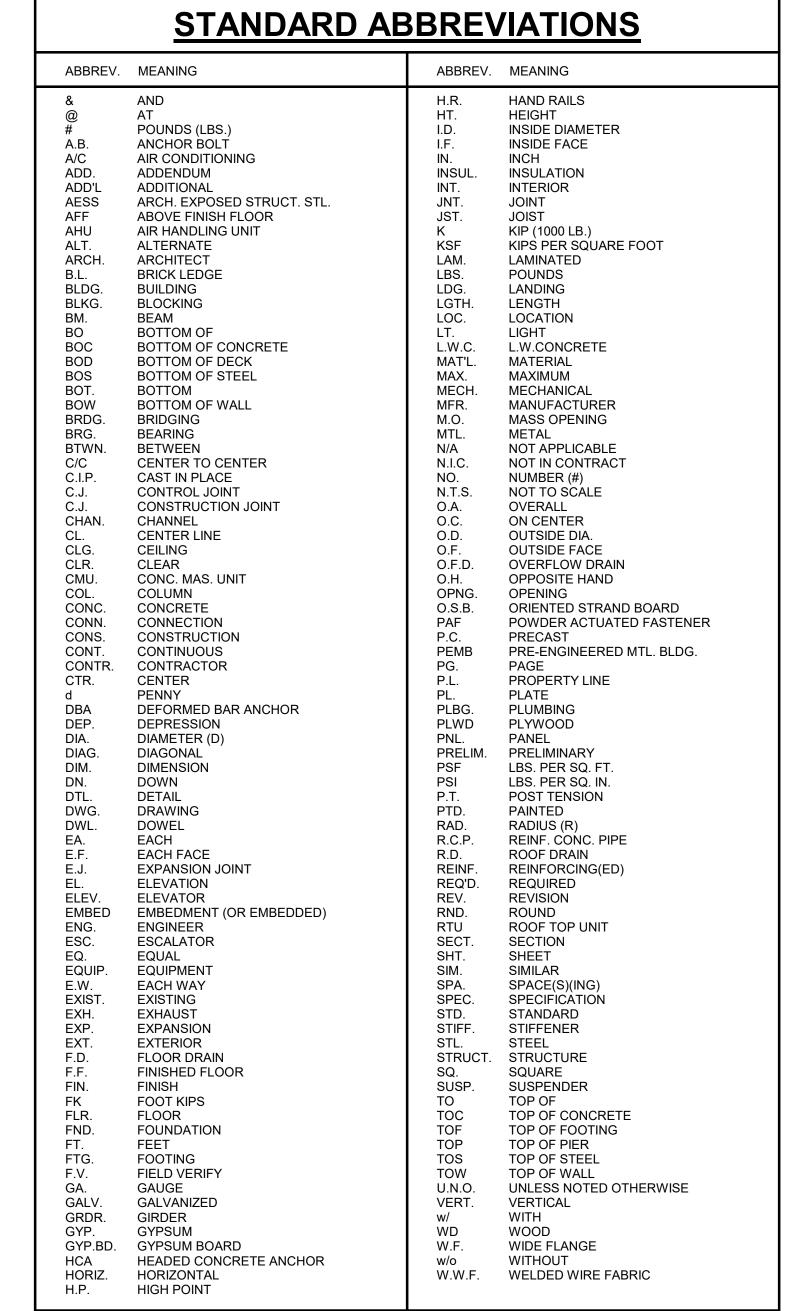
3. PROVIDE FILLET WELDS AT ALL CONTACT JOINTS BETWEEN STEEL MEMBERS SUFFICIENT TO DEVELOP THAT ALLOWABLE TENSILE STRENGTH OF THE SMALLER MEMBER AT THE

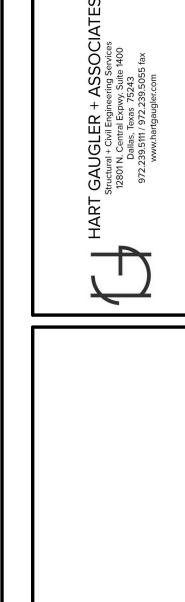
JOINT UNLESS NOTED OTHERWISE ON THE DRAWINGS. 4. WELDING OF METAL FORM DECK SHALL CONFORM TO AWS D1.3.

SPECIFIED AS TO LENGTH SHALL BE CONTINUOUS.

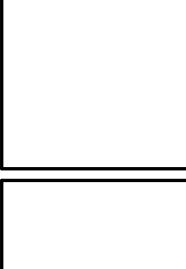
THESE CRITERIA PRIOR TO STARTING WALL CONSTRUCTION.

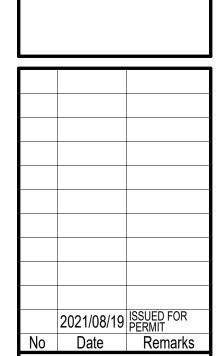


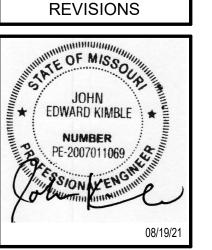




NW S SI 540 LEE [T]







204530 AS NOTED 08/19/2021

SPECIAL INSPECTIONS PER IBC 2018

- 1. THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED UNDER IBC SECTION 1704. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION
- 2. THESE INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS SPECIFIED IN IBC SECTION 110.
- A. SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT THE WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS.
- CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK.
- C. A FINAL REPORT OF INSPECTIONS DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED PERIODICALLY AT A POINT IN TIME AGREED UPON BY THE PERMIT APPLICANT AND THE BUILDING OFFICIAL PRIOR TO THE START
- 4. INSPECTIONS REQUIRED:

REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD ^(A)	IBC REFERENCE
INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	-	Х	ACI 318 CH. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
2. REINFORCING BAR WELDING:	•	•		
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A 706	-	Х		
B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND	Х	-	AWS D1.4 ACI 318: 26.6.4	-
C. INSPECT ALL OTHER WELDS	-	Х		
3. INSPECT ANCHORS CAST IN CONCRETE	-	Х	ACI 318: 17.8.2	
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. (B)				
 A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. 	X	-	ACI 318: 17.8.2.4	
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A.	-	Х	ACI 318: 17.8.2	-
5. VERIFY USE OF REQUIRED MIX DESIGN	-	Х	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	Х	-	ASTM C 172 ASTM C 31 ACI 318: 26.4.5, 26.12	1908.10
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318: 26.5	1908.6, 1908.7, 1908.
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	Х	ACI 318: 26.5.3-26.5.5	1908.9
9. INSPECT PRESTRESSED CONCRETE FOR:				
A. APPLICATION OF PRESTRESSING FORCES; AND	Х	-	101010 00 10	
B. GROUTING OF BONDED PRESTRESSING TENDONS	Х	-	ACI 318: 26.10	-
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	-	Х	ACI 318: CH. 26.9	-
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-	Х	ACI 318: 26.11.2	-
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	Х	ACI 318: 26.11.1(B)	-

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION (SECTION 1705.2)

STRUCTURAL STEEL (SECTION 1705.2.1 & AISC 360-16)

SPECIAL INSPECTIONS OF STEEL ELEMENTS SHALL BE IN ACCORDANCE WITH THE QUALITY	ASSURANCE INSPECTION REC	QUIREMENTS OF AISC 360
TYPE	QUALITY CONTROL	QUALITY ASSURANCE
QA AGENCY PROVIDING SPECIAL INSPECTIONS SHALL PROVIDE PERSONNEL MEETING THE MINIMUM QUALIFICATION REQUIREMENTS FOR INSPECTION AND NONDESTRUCTIVE TEST NDT PER AISC 360-10 SECTION N4.		
VERIFY FABRICATOR AND ERECTOR QUALITY CONTROL PROGRAM PER AISC 360 SECTION N2.		
VISUAL WELDING INSPECTION OF WELDS BY BOTH QC AND QA PERSONNEL SHALL BE PER TABLES LISTED IN AISC 360 SECTION N5.		
INSPECTION TASK FOR WELDING PRIOR TO WELDING PER AISC 360 TABLE N5.4-1. DURING WELDING PER AISC 360 TABLE N5.4-2. AFTER WELDING PER AISC 360 TABLE N5.4-3.	Х	Х
INSPECTION TASKS FOR BOLTING PRIOR TO BOLTING PER AISC 360 TABLE N5.6-1. DURING BOLTING PER AISC 360 TABLE N5.6-2. AFTER BOLTING PER AISC 360 TABLE N5.6-3.	Х	Х
 NONDESTRUCTIVE TESTING FOR WELDS NON-DESTRUCTIVE TESTING (NDT) OF WELDING JOINTS PER AISC 360 N.5 RISK CATEGORY FOR DETERMINATION OF EXTENT OF NDT PER ASCI 360 N5.5b IS NOTED IN THE DESIGN CRITERIA AND LOADS SECTION OF THESE GENERAL REQUIREMENTS. NDT PERFORMED SHALL BE DOCUMENTED AND REPORTS SHALL IDENTIFY THE TESTED WELD BY PIECE MARK AND LOCATION IN THE PIECE FOR FIELD WORK, NDT REPORT SHALL IDENTIFY THE TESTED WELD BY LOCATION IN THE STRUCTURE, PIECE MARK AND LOCATION IN THE PIECE 	X	X

COLD-FORMED STEEL DECK (SECTION 1705.2.2 & SDI)

`	,					
SPECIAL INSPECTIONS OF COLD-FORMED STEEL DECK SHALL BE IN ACCORDANCE WITH QUALITY ASSURANCE INSPECTION REQUIREMENTS OF SDI						
TYPE	QUALITY CONTROL	QUALITY ASSURANCE				
 INSPECTION TASKS FOR COLD-FORMED METAL DECK INSPECTION TASKS FOR DECK PLACEMENT: REFER TO SDI-QA/QC-2017 TABLE 1.1-1.2 INSPECTION TASKS FOR DECK WELDING: REFER TO SDI-QA/QC-2017 TABLE 1.3-1.5 INSPECTION TASKS FOR MECHANICAL DECK FASTENERS: REFER TO SDI-QA/QC-2017 TABLE 1.6-1.8 	X	X				

STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL (1705.2.3 AND TABLE 1705.2.3)

·					
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODICAL SPECIAL INSPECTION			
1. INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS					
A. END CONNECTIONS - WELDING OR BOLTED	-	X			
B. BRIDGING - HORIZONTAL OR DIAGONAL	-				
1. STANDARD BRIDGING	-	×			
BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1	-	X			

LEVEL B QUALITY ASSURANCE FOR MASONRY CONSTRUCTION BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES TMS 402/ACI 530/ASCE 5 (TABLE 1.19.2)

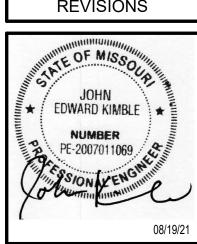
VERIFICATION OF f'_{-} AND f'_{-} IN ACCORDANCE WITH SPECIFICATION f'_{-}	ARTICLE 1.4B PR	NOR TO CONSTR	UCTION, EXCEPT WHERE SPE	CIFICALLY
VERIFICATION OF $f_{ m m}'$ AND $f_{ m ACC}'$ IN ACCORDANCE WITH SPECIFICATION $f_{ m ACC}$	ED BY THIS CODE	E	ooo., Exoc. I william of E	
MINIMUM	SPECIAL INSPEC			
	FREQI	JENCY (A)	REFERENCE FOR	CRITERIA
INSPECTION TASK	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	TMS 402/ ACI 530/ ASCE 5	TMS 60 ACI 530 ASCE
VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS.	-	Х		ART. 1
2. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:		1		
A. PROPORTIONS OF SITE-PREPARED MORTAR.	-	Х		ART. 2.1,
B. CONSTRUCTION OF MORTAR JOINTS.	-	Х		ART. 3.3
C GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES.	-	Х		ART. 2.4B,
D. LOCATION OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES.	Х	-		ART. 3.4,
E. PRESTRESSING TECHNIQUE.	-	Х		ART. 3.6
F. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	X ^(B)	X (C)		ART. 2.
3. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:				
A. GROUT SPACE.	X	-		ART. 3.2.D,
B. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES.	X	-	SEC. 1.16	ART. 2.4,
C PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES.	×	-	SEC. 1.16	ART. 3.2E, 3.
D. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.	-	X		ART. 2.6B, 2.
E. CONSTRUCTION OF MORTAR JOINTS.	-	Х		ART. 3.3
4. VERIFY DURING CONSTRUCTION:				
A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.	-	Х		ART. 3.3
B. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION.	x	-	ACI 318: 5.9, 5.10	
C WELDING OF REINFORCEMENT.	Х	-	SEC. 2.1.8.7.2, 3.3.3.4(C), 8.3.3.4(B)	
D. 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))	-	x		ART 1.8.C
E. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.	-	х		ART 3
F. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE.	-	х		ART.3.5
G. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS.	X ^(B)	X (C)		ART. 3.3I 3.3F.1.
5. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS.	-	x		ART. 1.4B.: 1.4B.2.B 1.4B.2.C.3,1 1.4B.4

REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS (SECTION 1705.6 AND TABLE 1705.6)

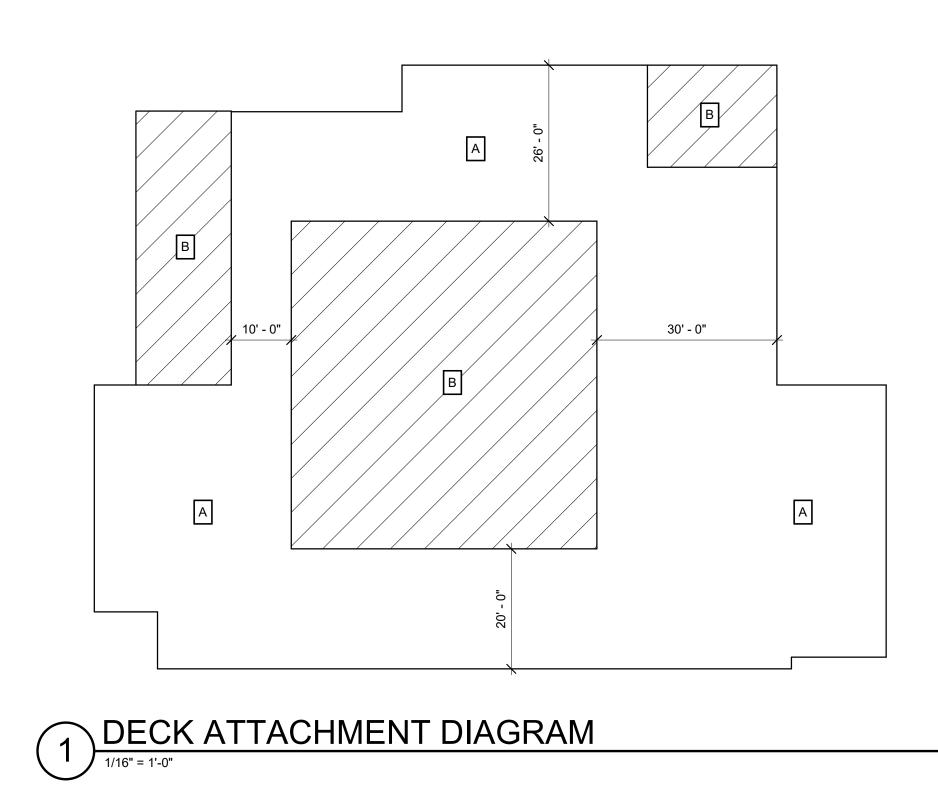
) FREQUENCY REFERS TO THE FREQUENCY OF SPECIAL INSPECTION, WHICH MAY BE CONTINUOUS DURING THE TASK LISTED OR PERIODIC DURING THE LISTED TASK, AS DEFINED IN THE TABLE.

(B) REQUIRED FOR THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY. (C) REQUIRED AFTER THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY.

•	·			
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODICAL SPECIAL INSPECTION		
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	Х		
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X		
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	X		
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	Х	-		
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-	X		

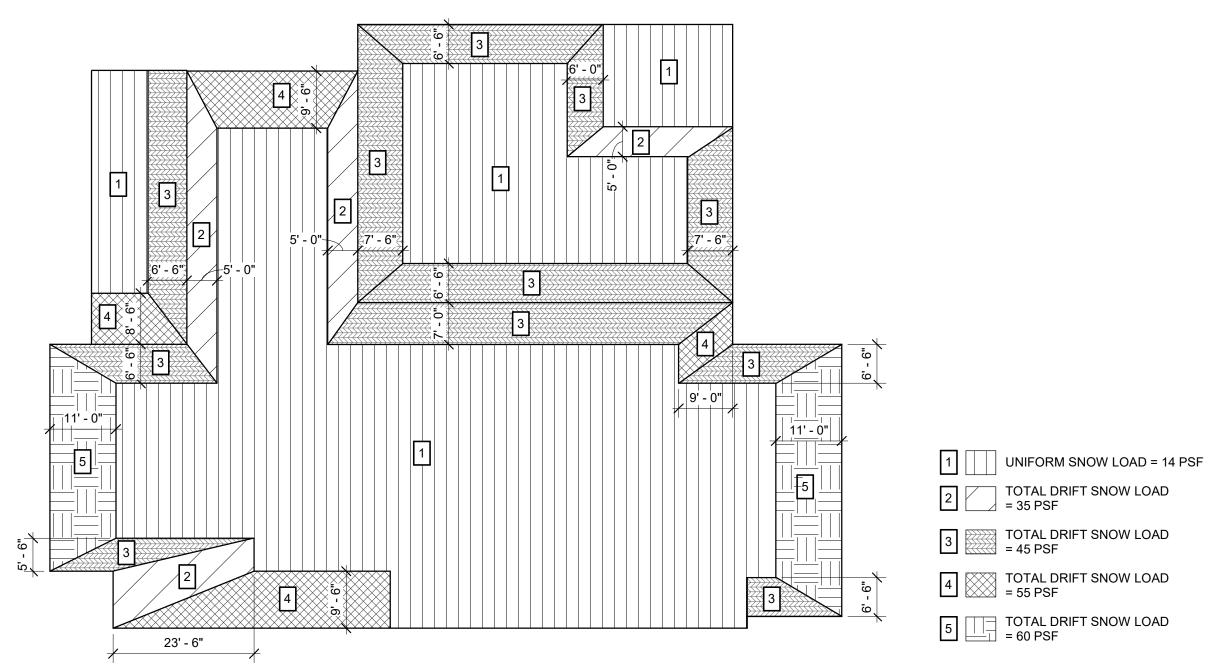


INSPECTIONS



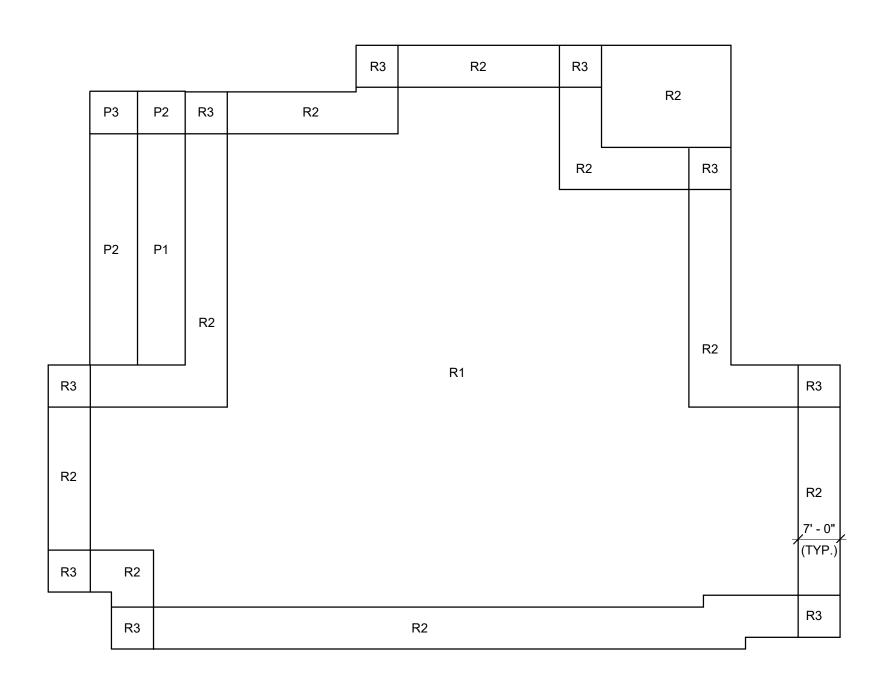
DECK NOTES:

- TYPE A: PROVIDE 1 1/2" 22 GA. METAL DECK.
 ATTACH TO SUPPORTS w/ 5/8" PUDDLE WELDS IN 36/7
 PATTERN. FASTEN SIDELAPS w/ (6)-#10 TEK SCREWS.
 TYPE B: PROVIDE 1 1/2" 22 GA. METAL DECK
- TYPE B: PROVIDE 1 1/2" 22 GA. METAL DECK.
 ATTACH TO SUPPORTS w/ 5/8" PUDDLE WELDS IN 36/4 PATTERN. FASTEN SIDELAPS w/ (5)-#10 TEK SCREWS.



2 SNOW DRIFT DIAGRAM

1/16" = 1'-0"



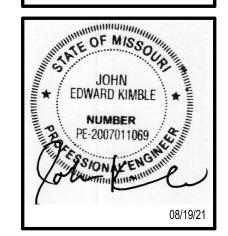
	ULTIMATE WIND P	RESSURE	FOR COM	//PONENT	S & CLADI	DING	
		POSITIVE PRESSURE (PSF)			NEGATIVE PRESSURE (P		
ZONE R	DESCRIPTION	EFF. WIND AREA (FT ²)			EFF. WIND AREA (FT ²		
		10	100	500	10	100	5
R1	TYP. ROOF INTERIOR	12	10	10	48	38	3
R2	TYP. ROOF EDGE	12	10	10	64	50	4
R3	TYP. ROOF CORNER	12	10	10	87	60	4
R4	TYP. WALL INTERIOR	28	24	21	30	26	2
R5	TYP. WALL EDGE	28	24	21	37	29	2
		POSITIVE PRESSURE (PSF) NEGATIVE PRESS			E PRESSU	JRE (
ZONE P (OPEN)	DESCRIPTION	EFF. WIND AREA (FT ²)		EFF. WIND AREA (FT ²			
(20	80	200	20	80	2
P1	TYP. ROOF INTERIOR	11	10	10	29	27	2
P2	TYP. ROOF EDGE	11	10	10	44	33	3
P3	TYP. ROOF CORNER	11	10	10	61	36	3

WIND UPLIFT PRESSURE DIAGRAM

1/16" = 1'-0"

COOPER'S HAWK 540 WINGRY & RESTAURANT LEE

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TYPICAL DIAGRAMS

Job No.
204530 Drawn
CRS

Scale Date

Sheet No.

S1.2

58 65 72

- SLABS, ETC. WHEN THE CLEAR SPACING OF BARS IS GREATER THAN 2 BAR DIAMETERS AND THE CLEAR COVER IS NOT LESS THAN 1 BAR DIAMETER.
- WHEN THE CLEAR SPACING OF BARS IS LESS THAN OR EQUAL TO 2 BAR DIAMETERS, OR WHEN THE CLEAR COVER IS LESS THAN 1 BAR DIAMETER, MULTIPLY DEVELOPMENT AND SPLICE LENGTHS LISTED IN THE TABLE BY 1.50.
- 4. PROVIDE LAP SPLICE LENGTH BASED ON THE LARGER BAR BEING OVERLAPPED WHEN BARS OF DIFFERENT SIZES ARE SPLICED. 5. FOR TOP BARS, MULTIPLY THE DEVELOPMENT AND SPLICE

#5 @ 24" O.C. VERT. REINF. AS NOTED FILL ALL REINF. CELLS WITH GROUT

1. PROVIDE CLEANOUTS AT BOTTOM OF EACH REINFORCED CELL IN ACCORDANCE WITH ACI 530. 2. PROVIDE HORIZONTAL JOINT REINF. PER GENERAL NOTES

@ 16" O.C. MAX. U.N.O. 3. REF. ARCH. FOR ALL CMU CONTROL JOINT LOCATIONS.

WALL OPENING REINFORCING AT DOOR OR WINDOW JAMBS

2-#6 VERT. FULL

HEIGHT REINF.

MASONRY REINF. LAP LENGTH VERT. REINF. **BAR SIZE** HORIZ. REINF. 1 BAR 2 BARS 3'-6" 3'-6" 3'-6" 5'-6" 4'-5" 4'-5" 11'-1" 7'-5" 7'-5"

REINFORCING AT EXT. & INT. WALLS

8'-7"

9'-0"

15'-0"

CELLS —

#5 VERT. FULL

HEIGHT IN 3

REINFORCING AT ALL CORNERS

5 TYPICAL DETAIL

3/4" = 1'-0"

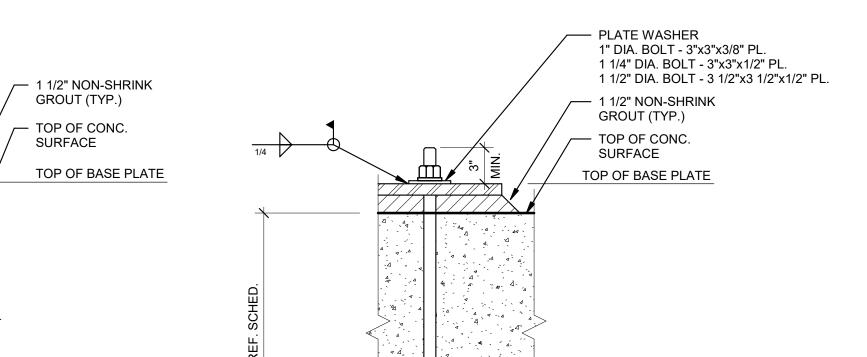
CLASS A 1.0 Ld CLASS B 1.3 Ld CLASS A 1.0 Ld CLASS B 1.3 Ld CLASS A 1.0 Ld 16 | 20 | 24 | 34 | 39 | 44 | 50 | 55 CLASS B 1.3 Ld 26 32 45 51 NOTES: 1. USE THE DEVELOPMENT LENGTH AND LAP SPLICE TABLE FOR BEAMS, JOISTS COLUMNS, WALLS,

SPLICE CLASS

CLASS A 1.0 Ld

CLASS B 1.3 Ld

- 3. TENSION DEVELOPMENT LENGTH = Ld. LENGTHS LISTED IN THE TABLE ARE IN INCHES.
- LENGTHS BY 1.3. TOP BARS ARE DEFINED AS HORIZONTAL REINFORCEMENT PLACED SO THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE BAR.



E EQ EQ E TYPE "B" TYPE "A" 4 BASE PLATES

1 1/2" = 1'-0"

CL. COLUMN \neg

CL. PLATE

HOLES FOR

ANCHOR BOLTS

REF. SCHED. FOR SIZE (TYP.)

STL. COLUMN,

FOOTING SCHEDULE

(EA. WAY, U.N.O.)

7- #7

OMMENT

NOTE 2

NOTE 2

FOOTING MARK

FOOTING DIM.

4'-0"x4'-0"x1'-4"

5'-0"x5'-0"x1'-4"

6'-0"x6'-0"x1'-6"

7'-0"x7'-0"x1'-6"

1. CENTER FOOTINGS ON COL'S, TYP. U.N.O.

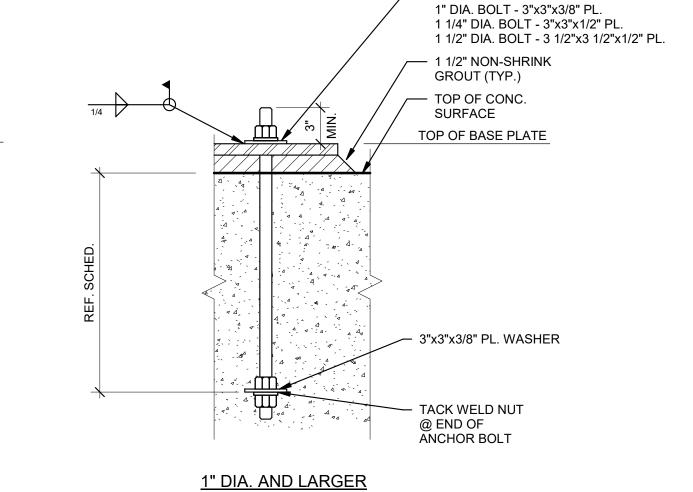
2. TOP REINF. TO MATCH BOTTOM REINF.

HOLES FOR

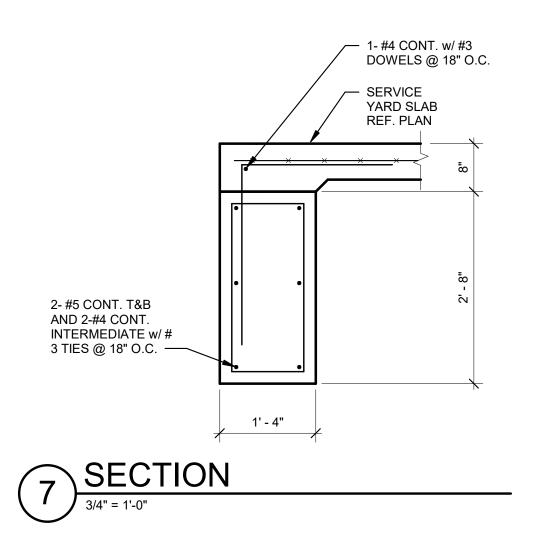
(TYP.) ——

6 SECTION
3/4" = 1'-0"

ANCHOR BOLTS REF. SCHED. FOR SIZE (TYP.) ——



TO WALL REF. ARCH. 8" CONT. BOND BEAM (10'-0" MAX. ABOVE SLAB) w/ 1- #5 CONT. 8" CMU WALL REINF. w/ #5 @ 24" O.C. REF. 5/S1.3 FOR CMU DETAILS. -CONCRETE STEM w/ 3- #5 CONT. — SITE CONCRETE REF. LANDLORD YARD SLAB DRAWINGS. —— REF. PLAN #5 VERT. @ 12" O.C. EXTEND INTO CMU @ 24" O.C. (ALTERNATE HOOK) -3- #5 CONT. w/ #5 @ 12" O.C. TRANSVERSE -3' - 0"



BASE PLATE SCHEDULE

GRADE

36 KSI

36 KSI

50 KSI

50 KSI

50 KSI

ANCHOR BOLT

NO., DIA., EMBEDMENT

(4) - 3/4" x 1'-0"

(4) - 3/4" x 1'-0"

(4) - 1 1/4" x 1'-2"

(4) - 1 1/4" x 1'-2"

(4) - 1 1/4" x 1'-2"

GROUT (TYP.)

- TOP OF CONC.

SURFACE

TACK WELD NUT

@ END OF **ANCHOR BOLT**

TYPICAL EMBED

WELD SIZE

5/16

5/16

5/16

7/16

COMMENTS

E = 1 1/2"

E = 1 1/2"

E = 2 1/4"

E = 2 1/4"

E = 2 1/4"

BASE PLATE BASE PLATE

TYPE

BASE PLATE

BP2

BP3

BP4

BASE PLATE

 $T \times D \times W$

3/4" x 10" x 0'-10'

3/4" x 12" x 1'-0

1" x 16" x 2'-0"

1" x 14" x 1'-2"

1/2" x 16" x 2'-4

1. REF. 4/S1.3 FOR TYPICAL BASE PLATE DETAILS

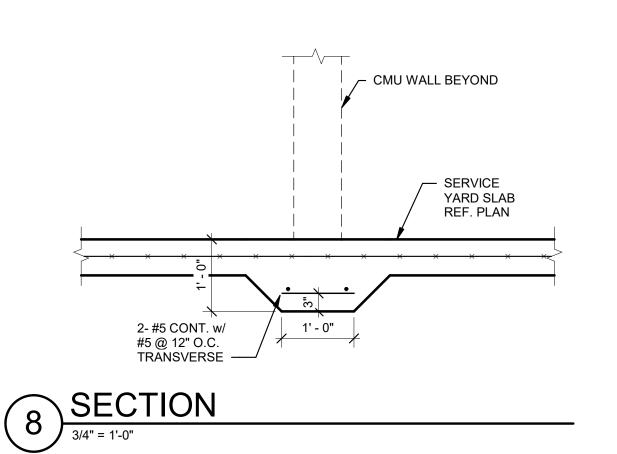
NOTE: IF HOLES IN BASEPLATE ARE MORE THAN

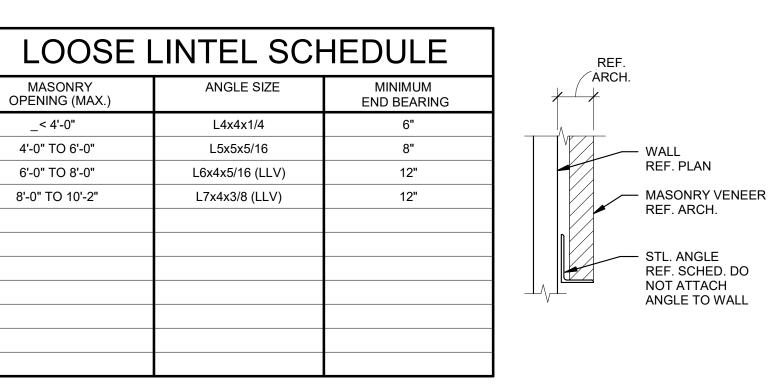
PER TABLE 14-2 IN AISC STANDARD.

5/16" LARGER THAN ANCHOR BOLT, PROVIDE

PLATE WASHERS BETWEEN NUT AND PLATE

2. F- MIN. FILLET WELD SIZE COLUMN TO BASE PLATE.





9 SCHEDULE

SCHEDULES AND DETAILS

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JOHN

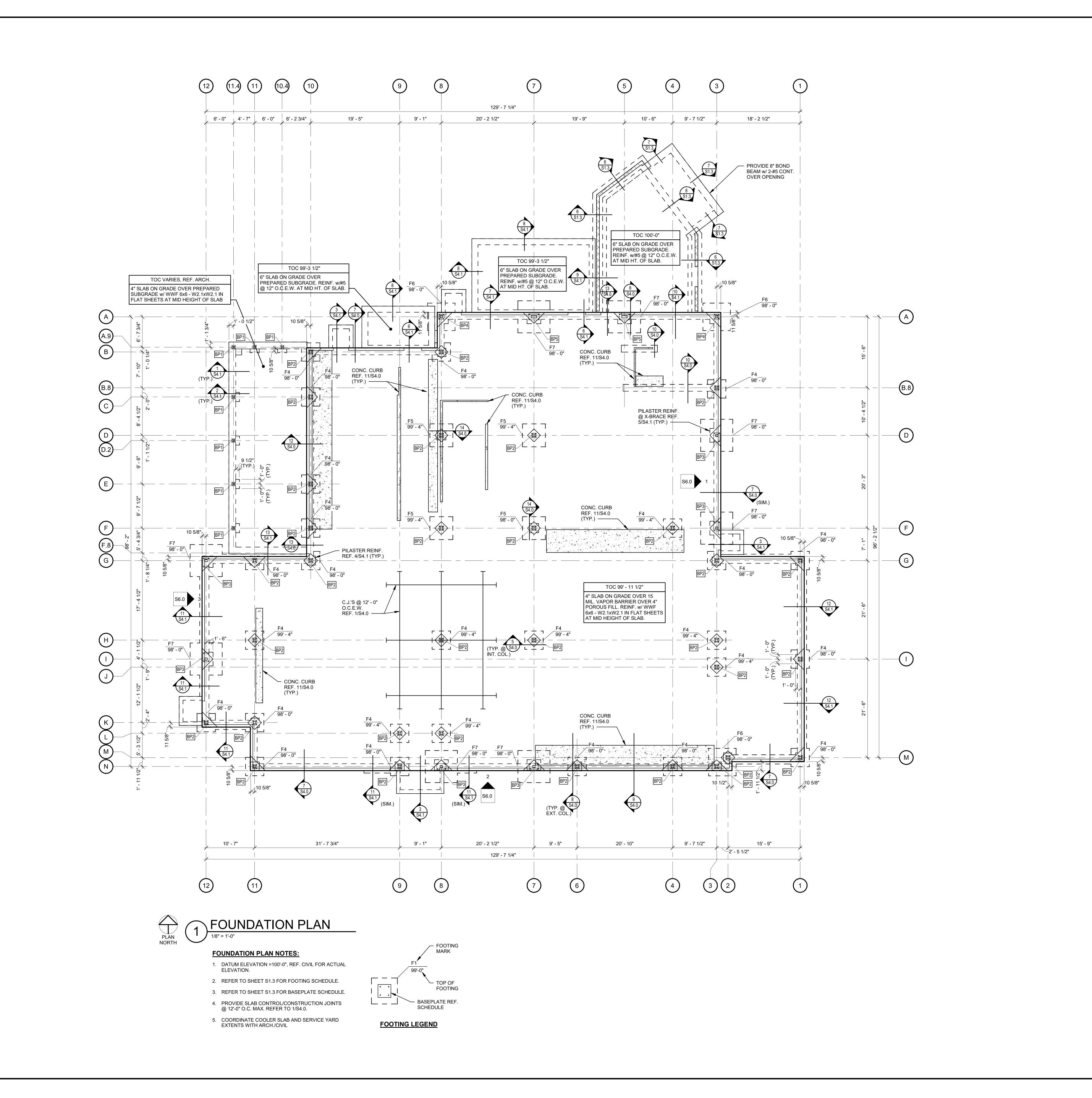
≜★ EDWARD KIMBLE

540 NW CHIPMAN ROAD LEE'S SUMMIT, MO 64086

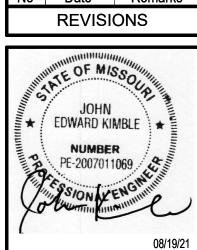
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AS NOTED 08/19/2021

204530



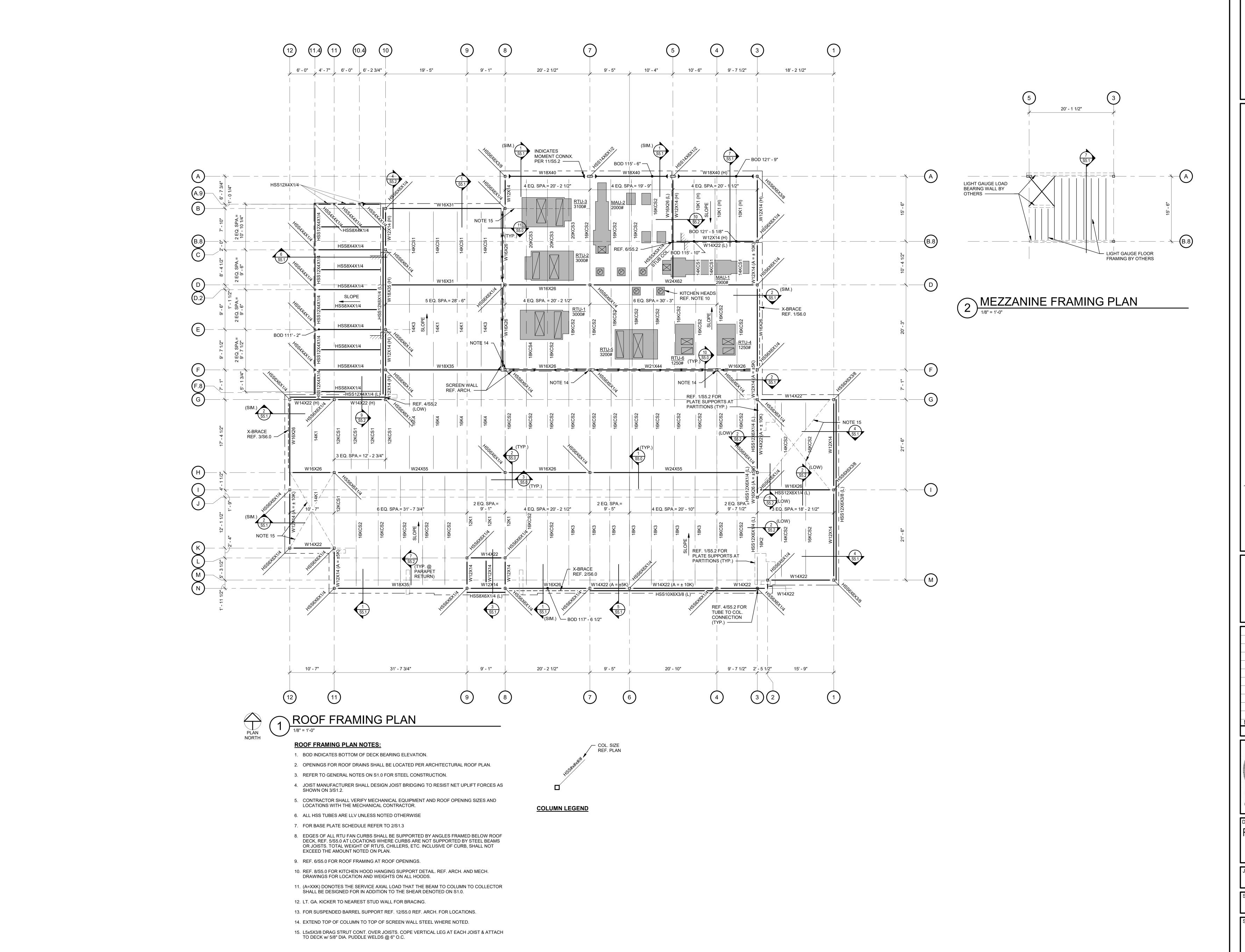
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FOUNDATION PLAN

204530

AS NOTED



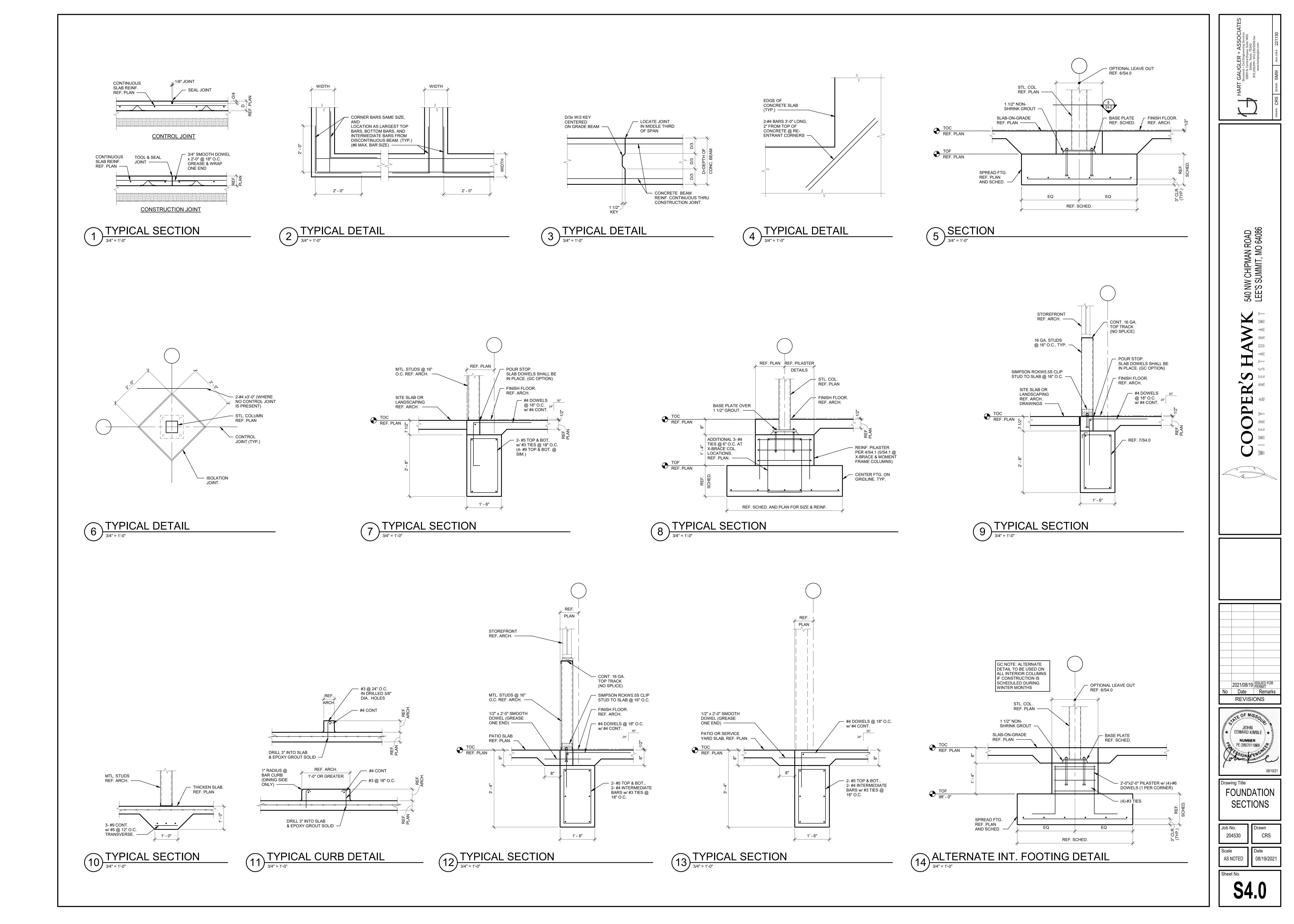
540 NW CHIPMAN ROAD LEE'S SUMMIT, MO 64086

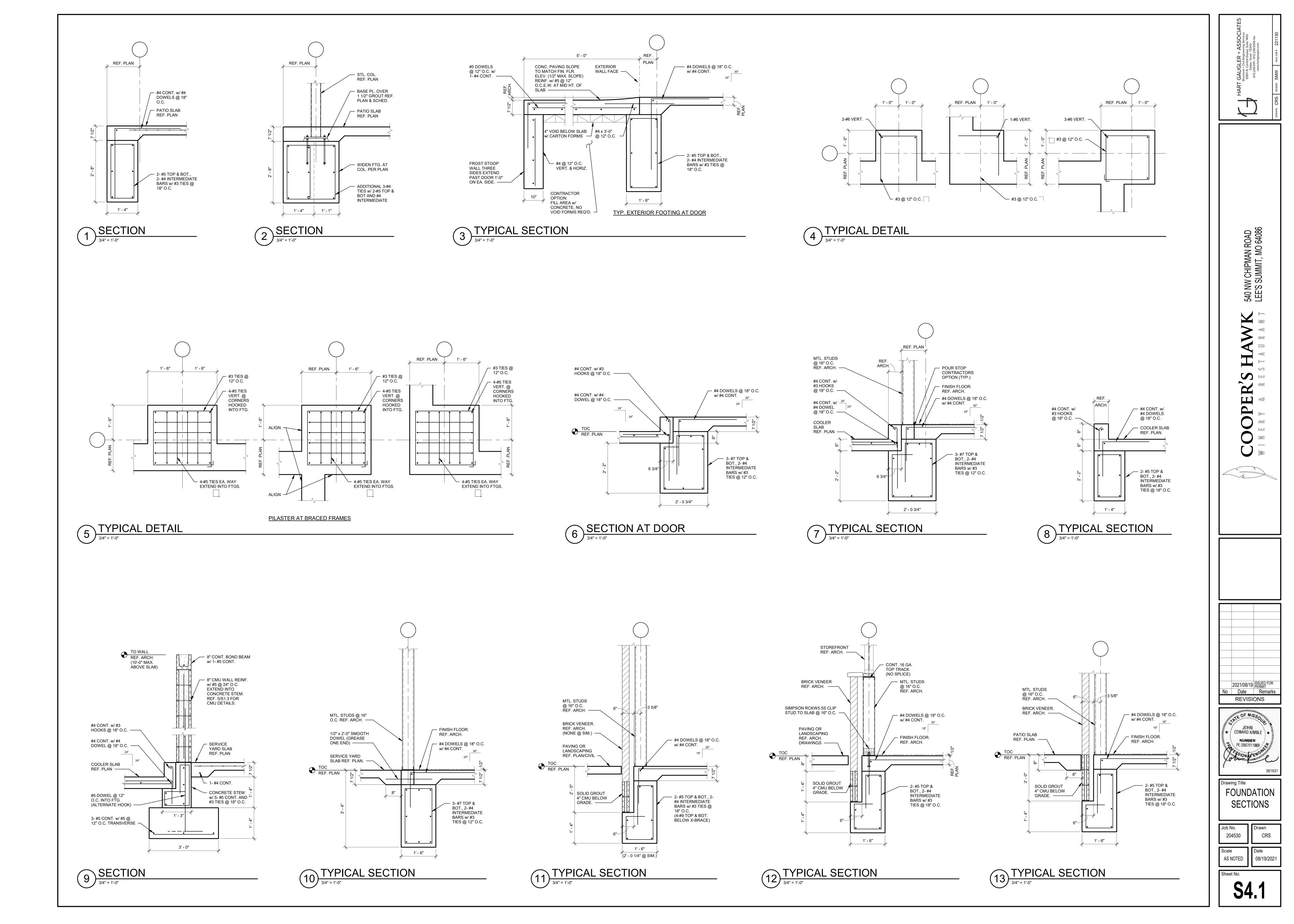
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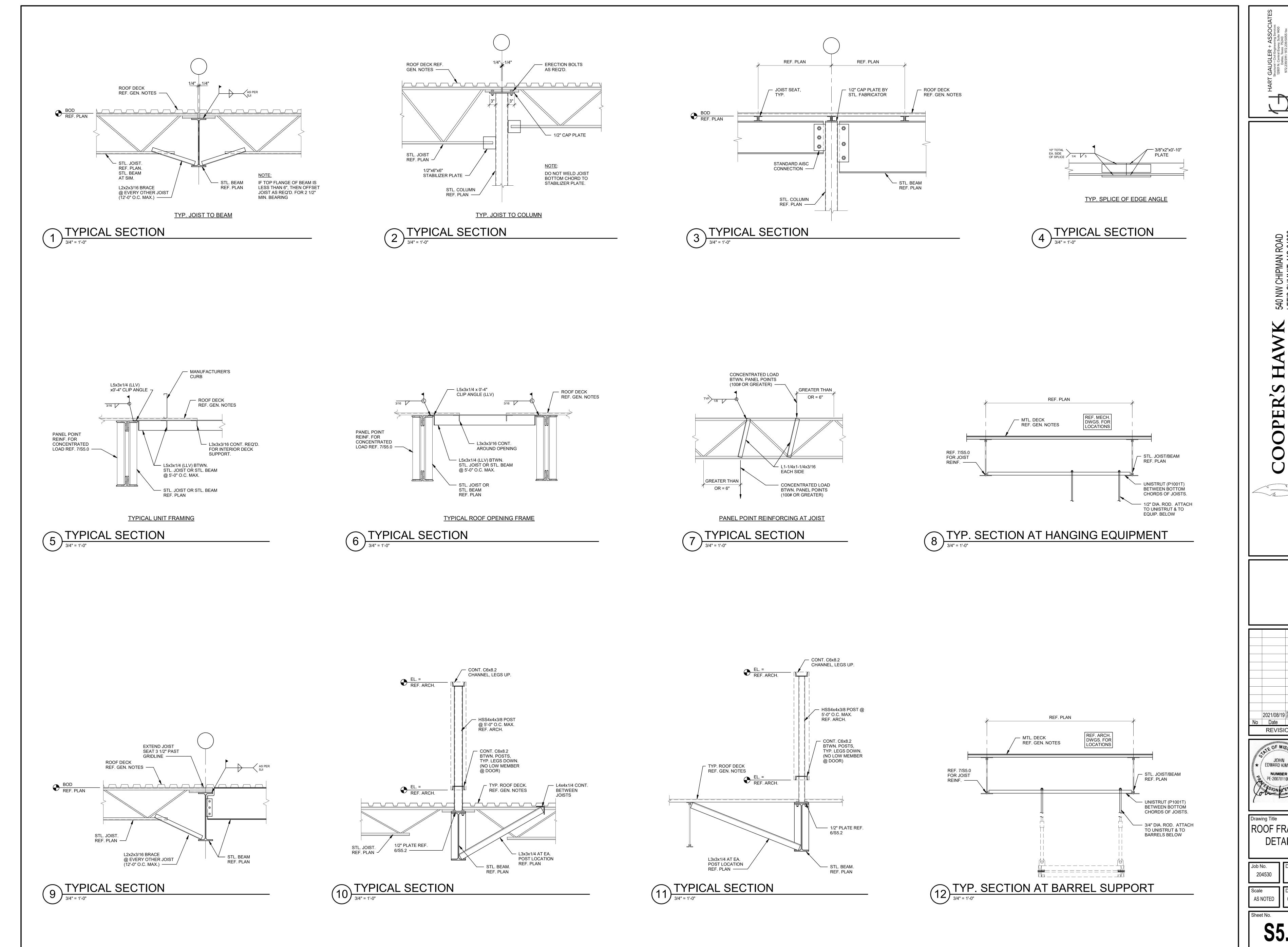
PLAN

204530

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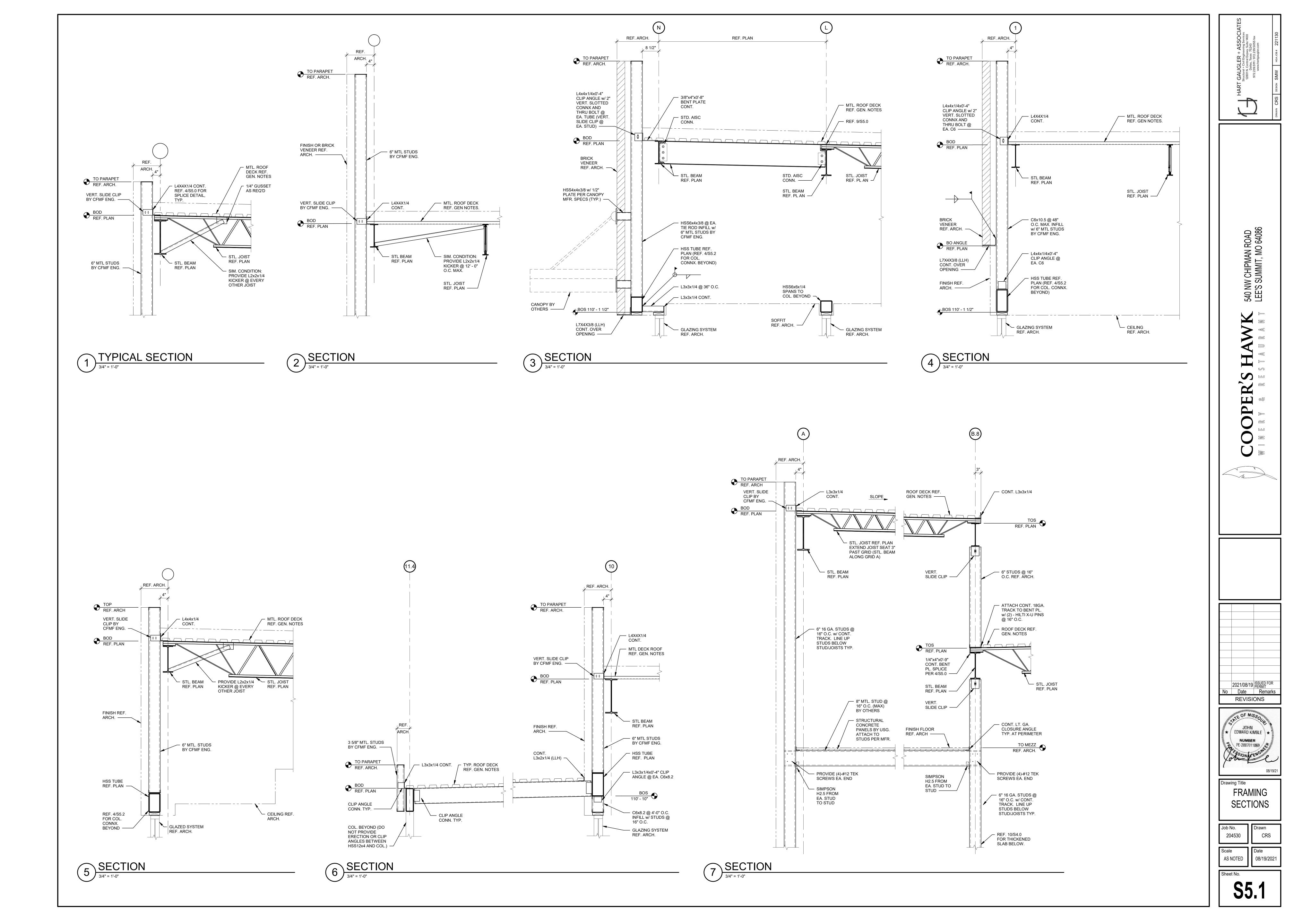
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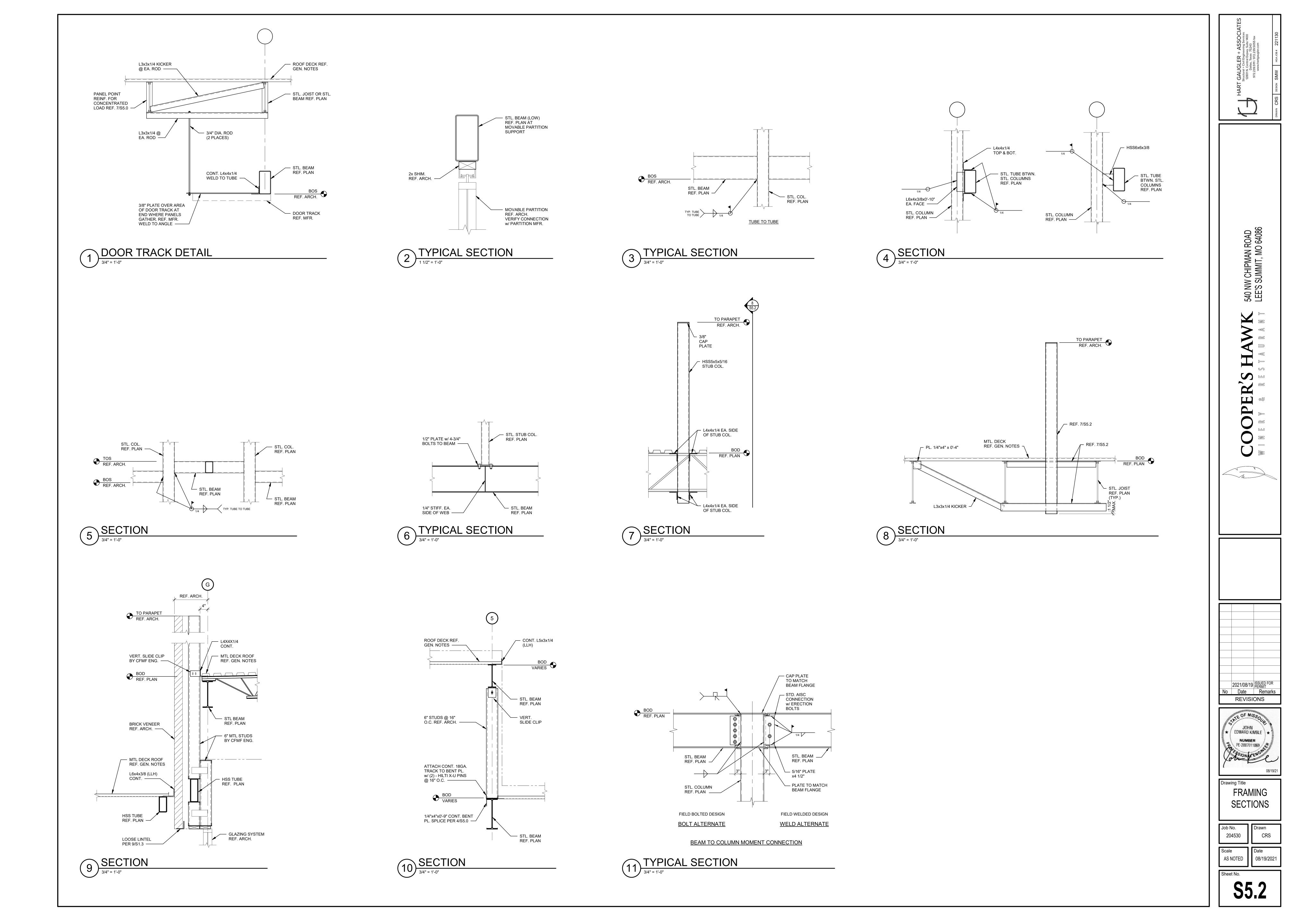
JOHN EDWARD KIMBLE PE-2007011069

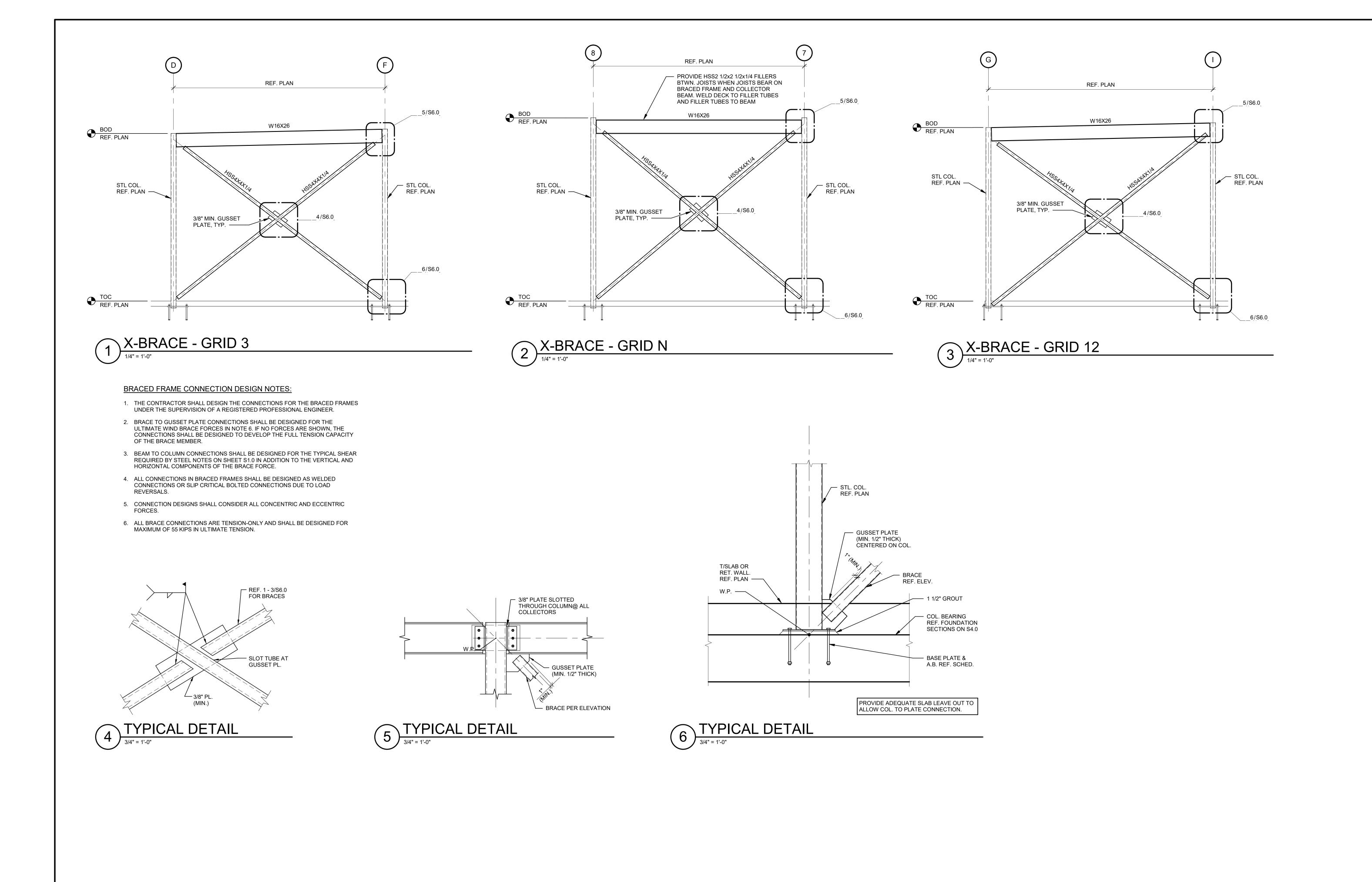
ROOF FRAMING **DETAILS**

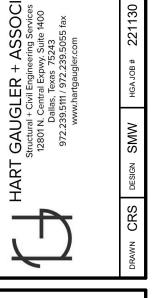
08/19/2021

S5.0

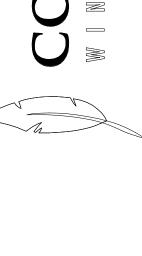


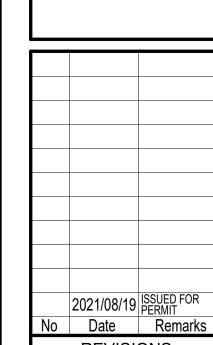


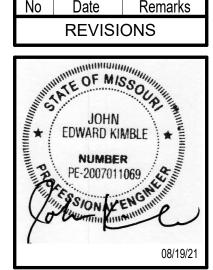




540 NW CHIPMAN ROAD LEE'S SUMMIT, MO 64086







BRACE FRAME **ELEVATIONS**

Scale Date
AS NOTED 08/19/2021

S6.0