4. FLOOR LIVE LOADS:

WIND EXPOSURE

ROOF LIVE LOAD 20 PSF, 300 LBS GROUND SNOW LOAD, Pg 122 PSF FLAT-ROOF SNOW LOAD, Pf 85 PSF (PLUS DRIFT)

SNOW EXPOSURE FACTOR, Ce 1.0 F. SNOW IMPORTANCE FACTOR, Is 1.0 G. THERMAL FACTOR. Ct

OCCUPANCY OR USE UNIFORMLY DISTRIBUTED (PSF) | CONCENTRATED LOAD (LBS) | LIVE LOAD REDUCTION RESIDENTIAL FIRST FLOOR CORRIDORS 2,000 (1,000 SCHOOLS) CORRIDORS ABOVE FIRST FLOOR 2,000 (1,000 SCHOOLS) YES **BALCONIES & DECKS** 1.5 TIMES LL FOR THE OCCUPANCY SERVED (100 MAX)

 WIND: ULTIMATE DESIGN WIND SPEED, V_{ULT}, (3-SECOND GUST) NOMINAL DESIGN WIND SPEED, V_{ASD}, (3-SECOND GUST) INTERNAL PRESSURE COEFFICIENT

90 MPH 0.18 (ENCLOSED)

115 MPH

GROUND ELEVATION FACTOR F. COMPONENTS AND CLADDING ULTIMATE DESIGN WIND PRESSURES PRESSURES MAY BE REDUCED FOR EFFECTIVE WIND AREAS LARGER THAN 10 SQUARE FEET, BUT NOT BELOW 16 PSF

2. ALLOWABLE WIND PRESSURE (ASD) MAY BE DETERMINED BY MULTIPLYING THE ULTIMATE PRESSURE

BY 0.6.

COMPONENT AND CLADDING ULTIMATE WIND PRESSURE - GABLE ROOF						
ROOF (EFFECTIVE WIND	ROOF SURFACE P					
AREA)	10 sf	100 sf				
Negative Zone 1, 2e	-53	-40				
Negative Zone 2n, 2R & 3e	-85	-50				
Negative Zone 3r	-99	-63				
Positive All Zones	23	16				
Overhang Zone 1, 2e	-63	-60				
Overhang Zone 2n & 2r	-95	-73				
Overhang Zone 3e	-114	-63				
Overhang Zone 3r	-121	-73				

A. SPECTRAL RESPONSE ACCELERATION PARAMETERS SHORT PERIOD

a. Ss 0.499g ONE SECOND 0.103g 0.103g B. SOILS SITE CLASS

C. SEISMIC IMPORTANCE FACTOR D. SEISMIC DESIGN CATEGORY E. BASIC SEISMIC-FORCE-RESISTING SYSTEM(S)

 LIGHT-FRAME (WOOD) WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE

GABLE ROOF (7° < $\theta \le 45$ °) (a=6ft

 STEEL MOMENT FRAME SYSTEMS ORDINARY REINFORCED CONCRETE SHEAR WALLS F. DESIGN BASE SHEAR(S) G. SEISMIC RESPONSE COEFFICIENT(S), Cs

H. RESPONSE MODIFICATION COEFFICIENT(S), R 6.5 FOR WOOD WALLS, 3.0 FOR STEEL MOMENT FRAMES, 5.0 FOR ORIDINARY REINFORCED CONCRETE SHEAR WALLS

5.28 INCHES/HOUR

I. ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCES 100 YEAR HOURLY RAINFALL; 1.88 INCHES/HOUR

1. REFER TO SOILS REPORT NO. 22-12805 BY NORTHWEST COLORADO CONSULTANTS, INC, DATED DECEMBER 22,

2. GEOTECHNICAL ENGINEER SHALL VERIFY SOIL CONDITIONS AND TYPES DURING EXCAVATION AND PRIOR TO

PLACEMENT OF FORMWORK OR CONCRETE. 3. MINIMUM FROST DEPTH SHALL BE 4'-0 BELOW EXTERIOR GRADE.

B. 100 YEAR 15-MIN RAINFALL; i

DRILLED PIERS (CAST-IN-PLACE DEEP FOUNDATIONS): 1. STRAIGHT SHAFT DRILLED PIERS ARE DESIGNED FOR A. MAXIMUM END BEARING PRESSURE

40.000 PSF ALLOWABLE SIDE SHEAR 4,000 PSF MINIMUM DEAD LOAD PRESSURE 12,000 PSF 2,000 PSF D. UPLIFT SIDE SHEAR E. MINIMUM PENETRATION INTO BEDROCK 6 FFFT MINIMUM TOTAL LENGTH 15 FEET

SEE PLANS FOR ADDITIONAL PENETRATION AND LENGTH REQUIREMENTS. 3. ASSUMED AVERAGE USGS TOP OF BEDROCK ELEVATION, FOR BIDDING PURPOSES ONLY, SHALL BE 5' BELOW

4. SEE BORING LOGS IN THE SOILS REPORT FOR INDICATED VARIATION IN BEDROCK SURFACE. 5. MUSHROOMING AT THE TOPS OF PIERS IS NOT PERMITTED. 6. PROVIDE FOR OVERRUN OR UNDERRUN IN DRILLING LENGTHS AND INSTALLED QUANTITIES OF CONCRETE AND

7. PIER HOLES SHALL BE THOROUGHLY CLEANED AND DEWATERED AND SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO CONCRETE PLACEMENT. CASING OF DRILLED PIER HOLES MAY BE

8. USE OF SLURRY DURING INSTALLATION OF DRILLED PIERS SHALL CONFORM TO REQUIREMENTS OF ACI 336. CONTRACTOR SHALL SUBMIT WRITTEN PROCEDURE FOR DESIGN TEAM AND GEOTECHNICAL ENGINEER REVIEW. IDENTIFY SLURRY COMPOSITION, MIXING, AND STORAGE; AUGER AND CASING SIZES FOR EACH SPECIFIED DRILLED PIER DIAMETER; METHOD OF CLEANING EXCAVATION; PROCEDURE FOR TEMPORARY CASING REMOVAL

DURING CONCRETE PLACEMENT.

2. COEFFICIENT OF SLIDING FRICTION

1. EARTH EQUIVALENT FLUID LATERAL PRESSURE: A. WALLS RESTRAINED AT TOP (AT REST) 50 PCF B. CANTILEVERED WALLS (ACTIVE) PASSIVE RESISTING 250 PCF D. UNIFORM LOAD BTWN PERM. SHORING WALL AND BLDG FDN WALL (FREE DRAINING GRAVEL/GEO FOAM)

REINFORCED CONCRETE:

DESIGN IS BASED ON ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE." CONCRETE WORK SHALL CONFORM TO ACI 301 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE." STRUCTURAL CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES:

INTENDED USE	EXPOSURE CLASS	f'c, PSI 28 DAYS	MAX W/CM RATIO	MAXIMUM AGGREGATE	SLUMP, INCHES (+/- 1")	AIR CONTENT PERCENT (+/- 1.5%)	CEMENT TYPE	ADMIXTURES / COMMENTS
DRILLED PIERS	F0-S0-W0-C1	4000	0.55	3/4" STONE	SEE TABLE BELOW	N/A	I/II or IL	
FOOTINGS	F0-S0-W0-C1	3000	0.52	3/4" STONE	N/A	N/A	I/II or IL	
STEM WALLS	F2-S0-W0-C1	4500	0.45	3/4" STONE	N/A	6%	I/II or IL	
GRADE BEAMS	F2-S0-W0-C1	4500	0.45	3/4" STONE	N/A	6%	I/II or IL	
WALLS	F0-S0-W0-C0	4000	0.45	3/4" STONE	N/A	3%	I/II or IL	
STRUCTURAL SLAB ON DECK	F0-S0-W0-C0	3500	0.50	3/4" STONE	N/A	N/P	I/II or IL	
FORMED STRUCTURAL SLAB	F0-S0-W0-C0	4000	0.45	3/4" STONE	N/A	N/P	I/II or IL	
INTERIOR SLAB ON GRADE	F0-S0-W0-C0	4000	0.45	3/4" STONE	N/A	N/P	I/II or IL	
EXTERIOR SLAB ON	F3-S0-W0-C2	5000	0.40	3/4" STONE	N/A	6%	I/II or IL	25% MAX FLY

CONCRETE SLUMP REQUIREMENTS DURING PLACEMENT					
DRILL METHOD	SLUMP, INCHES				
DRY, UNCASED, OR PERMANENT CASING	4 TO 6				
TEMPORARY CASING	6 TO 8				
SLURRY DISPLACEMENT	7 TO 9				

CONCRETE MIX TABLE NOTES:

SLUMP VALUES INDICATED ARE SUGGESTED BASED ON USE AND TYPICAL PLACEMENT METHODS. CONTRACTOR MAY ADJUST SLUMP AS NECESSARY FOR FIELD CONDITIONS AND INSTALLATION METHOD USED PROVIDED REMAINING REQUIREMENTS ARE MET.

B. AIR CONTENT: a. N/P: AIR ENTRAINING ADMIXTURES NOT PERMITTED, ENTRAPPED AIR ONLY

N/A: NOT APPLICABLE, NO STRUCTURAL AIR CONTENT REQUIREMENTS OR SLUMP REQUIREMENTS SHRINKAGE STRAIN: MIXES NOTED AS "SHRINKAGE XX%" SHALL BE LIMITED TO A MAXIMUM DRYING SHRINKAGE (0.05% UNLESS NOTED OTHERWISE) AT 28 DAYS (500 MICROSTRAIN) AS MEASURED BY ASTM C157. SHRINKAGE TEST RESULTS TO BE INCLUDED WITH MIX DESIGN SUBMITTAL

GENERAL CONTRACTOR TO COORDINATE CONCRETE MOISTURE LEVEL AND ANTICIPATED MOISTURE MITIGATION PROCEDURES WITH CONCRETE SUPPLIER/MIX DESIGNER AND OTHER AFFECTED SUBCONTRACTORS (INCLUDING BUT NOT LIMITED TO FLOORING) TO ADDRESS ALL POTENTIAL SCHEDULE

AND INSTALLATION CONFLICTS. DETAILING, FABRICATION, AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT."

WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064. REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60, EXCEPT BARS SHOWN TO BE FIELD-BENT SHALL BE ASTM A706, GRADE 60.

BARS TO BE WELDED SHALL CONFORM TO ASTM A706. UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS, LAP BARS PER THE CONCRETE LAP SPLICE

10. AT CORNERS AND INTERSECTIONS, MAKE HORIZONTAL BARS CONTINUOUS OR PROVIDE MATCHING CORNER BARS FOR EACH LAYER OF REINFORCEMENT.

11. TRIM OPENINGS IN WALLS AND SLABS WITH (2) #5 FOR EACH LAYER OF REINFORCEMENT, FULLY DEVELOPED BY EXTENSION OR HOOK. 12. IN CONTINUOUS MEMBERS, SPLICE TOP BARS AT MID-SPAN AND SPLICE BOTTOM BARS OVER SUPPORTS.

13. FORM INTERMITTENT SHEAR KEYS AT ALL CONSTRUCTION JOINTS AND AS SHOWN ON THE STRUCTURAL

14. EXCEPT AS NOTED ON THE DRAWINGS, CONCRETE PROTECTION FOR REINFORCEMENT IN CAST-IN-PLACE CONCRETE SHALL BE AS FOLLOWS:

CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: B. EXPOSED TO EARTH OR WEATHER: #6 THROUGH #18 BARS 2. #5 BAR, W31 OR D31 WIRE, AND SMALLER C. NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS, JOISTS: #11 BARS AND SMALLER BEAMS AND COLUMNS: a. PRIMARY REINFORCEMENT

b. STIRRUPS, TIES, SPIRALS 15. FIBER ADMIXTURE SHALL BE 100% VIRGIN POLYPROPYLENE, FIBRILLATED FIBERS, TYPE III 4.1.3, PERFORMANCE LEVEL ONE, PER ASTM C1116.

16. ANCHOR BOLTS AND RODS FOR BEAM AND COLUMN-BEARING PLATES SHALL BE PLACED WITH SETTING

ALL CAST-IN-PLACE ANCHORS DESIGNED IN ACCORDANCE WITH ACI 318. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-

INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR.

EXISTING REINFORCING BARS SHALL NOT BE CUT UNLESS APPROVED BY THE EOR. 4. ALL ANCHORS MUST BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INFORMATION (MPII) IN CONJUNCTION WITH EDGE DISTANCE, SPACING, AND EMBEDMENT DEPTH AS INDICATED ON THE DRAWINGS. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MPII. 5. SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SPECIFIED, SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER-OF-RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER; REGISTRATION MUST BE IN THE STATE IN WHICH THE PROJECT IS LOCATED. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE

APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION. THE CONTRACTOR SHALL ARRANGE FOR A MANUFACTURER'S FIELD REPRESENTATIVE TO PROVIDE INSTALLATION TRAINING FOR ALL PRODUCTS TO BE USED, PRIOR TO THE ANCHOR INSTALLATION. A RECORD OF TRAINING SHALL BE KEPT ON SITE AND MADE AVAILABLE TO THE EOR/ SPECIAL INSPECTOR AS REQUESTED. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL TO VERTICALLY OVERHEAD ORIENTATION THAT SUPPORT

SUSTAINED TENSION LOADS SHALL BE DONE BY A CERTIFIED ANCHOR INSTALLER (AAI) AS CERTIFIED THROUGH

ACI/CRSI (ACI 318-11 D 9.2.2, ACI 318-14 17.8.2.2). PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE EOR FOR APPROVAL PRIOR TO COMMENCEMENT OF INSTALLATION. ADHESIVE ANCHORS MUST BE INSTALLED IN CONCRETE AGED A MINIMUM OF 21 DAYS (ACI 318-11 D 2.2, ACI 318-14 17.1.2)

9. ALL POST-INSTALLED ANCHORS SHALL BE INSTALLED IN DRY HOLES THAT HAVE BEEN DRILLED, CLEANED, AND PREPARED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INFORMATION AND THE RESPECTIVE ICC-ES EVALUATION REPORTS.

10. PROVIDE SPECIAL INSPECTION FOR ALL MECHANICAL AND ADHESIVE ANCHORS PER THE APPLICABLE BUILDING CODE AND PER THE CURRENT ICC-ES REPORT (IBC TABLE 1705.3 NOTE B).

CONCRETE POST-INSTALLED ANCHORS **FXPANSION** POWER-STUD+ SD2 (ICC ESR-2502) KWIK BOLT TZ2 (ICC ESR-4266) STRONG-BOLT 2 (ICC ESR-3037) SCREW SCREW-BOLT+ (ICC ESR-3889) KWIK HUS-EZ (ICC ESR-3027) TITEN HD (ICC ESR-2713) **ADHESIVE** HIT HY-200 V3 (ICC ESR-4868) AC200+ (ICC ESR-4027) AT-XP (UES ER-263)

1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" (AISC 360) AND THE "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" (AISC 303) BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC).

STRUCTURAL STEEL WIDE FLANGE BEAMS AND WTS SHALL CONFORM TO ASTM A992, 50 KSI YIELD. ROLLED STEEL FLOOR PLATES SHALL CONFORM TO ASTM A786, COMMERCIAL GRADE.

4. OTHER ROLLED SHAPES, INCLUDING PLATES, CHANNELS, AND ANGLES SHALL CONFORM TO ASTM A36, 36 KSI 5. HOLLOW STRUCTURAL SECTION (HSS) RECTANGULAR SHAPES SHALL CONFORM TO ASTM A500, GRADE C, 50 KSI

PIPE SHAPES SHALL CONFORM TO ASTM A53, GRADE B, 35 KSI YIELD. 8. EXCEPT AS NOTED, FRAMED BEAM CONNECTIONS SHALL BE BEARING-TYPE WITH 3/4" DIAMETER, SNUG TIGHT, ASTM F3125 BOLTS, DETAILED IN CONFORMANCE WITH THE STRUCTURAL DRAWINGS AND THE "STEEL CONSTRUCTION MANUAL" BY THE AISC. INSTALL BOLTS IN ACCORDANCE WITH AISC'S "SPECIFICATION FOR

HSS ROUND SHAPES SHALL CONFORM TO ASTM A500, GRADE C, 50 KSI YIELD.

STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS". ALL BEAMS SHALL HAVE FULL DEPTH WEB STIFFENERS EACH SIDE OF WEBS ABOVE AND BELOW COLUMNS. 10. ANCHOR RODS SHALL CONFORM TO ASTM F1554, GRADE (55 WITH WELDABILITY SUPPLEMENT S1, AND/OR 105) AS NOTED ON THE STRUCTURAL DRAWINGS.

11. HEADED ANCHOR STUDS (HAS) SHALL CONFORM TO ASTM A108 AND SHALL BE CONNECTED TO STRUCTURAL STEEL WITH EQUIPMENT APPROVED BY THE STUD MANUFACTURER ACCORDING TO THE STUD MANUFACTURER'S RECOMMENDATIONS. 12. WELDING SHALL BE DONE BY A CERTIFIED WELDER IN ACCORDANCE WITH THE AISC DOCUMENTS LISTED ABOVE, THE AMERICAN WELDING SOCIETY (AWS) D1.1: STRUCTURAL WELDING CODE, AND THE RECOMMENDATIONS FOR USE OF WELD E70 ELECTRODES. WHERE NOT SPECIFICALLY NOTED, MINIMUM WELD SHALL BE 3/16" FILLET BY

13. GROUT BENEATH COLUMN BASE AND BEAM BEARING PLATES SHALL HAVE A MINIMUM 28-DAY, COMPRESSIVE STRENGTH OF 7,500 PSI AND SHALL BE NON-SHRINK, NON-METALLIC, AND TESTED IN ACCORDANCE WITH ASTM

STEEL STAIRS: 1. STAIRS SHALL BE DESIGNED, DETAILED, AND ERECTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE "RECOMMENDED VOLUNTARY MINIMUM STANDARDS FOR FIXED METAL STAIRS" IN NAAMM AMP 510 -METAL STAIRS MANUAL. STAIRS SHALL BE DESIGNED BY, AND CALCULATIONS SHALL BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED. THE STAIR ENGINEER SHALL BE

EMPLOYED BY THE STAIR SUPPLIER PER THE DEFERRED SUBMITTAL REQUIREMENTS. 2. STAIR SUPPLIER SHALL DESIGN STAIR ATTACHMENTS TO THE PRIMARY STRUCTURAL FRAME. ATTACHMENT TO THE PRIMARY STRUCTURAL FRAME SHALL BE MADE WITH PINNED CONNECTIONS. MOMENT CONNECTIONS AND CONNECTIONS WHICH INDUCE TORSION ON THE PRIMARY STRUCTURAL FRAME ARE NOT PERMITTED UNLESS SPECIFICALLY DETAILED OTHERWISE.

INTERIOR STAIRS SHALL BE "ARCHITECTURAL CLASS" AND SHALL BE PRE-ASSEMBLED STRUCTURAL STEEL WITH CONCRETE FILLED TREADS AND CLOSED RISERS SPANNING BETWEEN STRINGERS. DESIGN AND DETAILING OF STAIR COMPONENTS, INCLUDING STRINGERS, TREADS, RISERS, HEADERS, INTERMEDIATE LANDINGS, RAILINGS, CONNECTIONS, AND ALL VERTICAL SUPPORTING ELEMENTS WITHIN THE DESIGNATED STAIR SHAFT SHALL BE THE RESPONSIBILITY OF THE STAIR SUPPLIER.

4. EXTERIOR STAIRS SHALL BE "SERVICE CLASS" AND SHALL BE PRE-ASSEMBLED, GALVANIZED STRUCTURAL STEEL WITH OPEN GRATING STEEL TREADS, AND NO RISERS, SPANNING BETWEEN STRINGERS. DESIGN AND DETAILING OF STAIR COMPONENTS INCLUDING STRINGERS, TREADS AND RISERS, HEADERS, INTERMEDIATE LANDINGS, RAILINGS, CONNECTIONS, AND ALL VERTICAL SUPPORTING ELEMENTS SHALL BE THE RESPONSIBILITY OF THE

5. ANY REQUIRED FOUNDATION ELEMENTS (IF ANY) SHALL BE THE RESPONSIBILITY OF THE STAIR SUPPLIER. USE

OF ANY EXISTING FOUNDATION ELEMENTS (INCLUDING FLOOR SLABS) SHALL BE SUBMITTED TO THE EOR FOR 6. STAIR SUPPLIER SHALL COORDINATE STAIR ASSEMBLIES AND DETAILS WITH ADJACENT FRAMING ELEMENTS

SHOWN ON THE STRUCTURAL AND ARCHITECTURAL DRAWINGS.

7. REQUIRED STAIR AND RAILING DESIGN LOADS: A. STAIRS MUST BE DESIGNED FOR THE FOLLOWING NON-CONCURRENT LIVE LOADS:

100 POUNDS PER SQUARE FOOT (PSF) 2. 300 LB CONCENTRATED LOAD ON STAIR TREAD APPLIED ON AN AREA OF 2 INCHES X 2 INCHES

HANDRAIL AND GUARDRAILS 1. ALL HANDRAILS AND GUARDRAILS SHALL BE DESIGNED TO RESIST A SINGLE CONCENTRATED LOAD OF 200 LB APPLIED IN ANY DIRECTION AT ANY POINT ON THE HANDRAIL OR TOP RAIL AND TO TRANSFER THIS LOAD THROUGH THE SUPPORTS TO THE STRUCTURE TO PRODUCE THE MAXIMUM LOAD EFFECT ON THE ELEMENT BEING CONSIDERED.

ALL HANDRAIL AND GUARDRAIL SYSTEMS SHALL BE DESIGNED TO RESIST A LOAD OF 50 POUNDS PER LINEAR FOOT (PLF) APPLIED IN ANY DIRECTION ALONG THE HANDRAIL OR TOP RAIL. THIS LOAD NEED NOT BE ASSUMED TO ACT CONCURRENTLY WITH THE 200 LB POINT LOAD

INTERMEDIATE RAILS (ALL THOSE EXCEPT THE HANDRAIL), AND PANEL FILLERS SHALL BE DESIGNED TO WITHSTAND A HORIZONTALLY APPLIED NORMAL LOAD OF 50 LB ON AN AREA NOT TO EXCEED 12 INCH X 12 INCH INCLUDING OPENINGS AND SPACE BETWEEN RAILS. THE 50 LB LOAD MUST BE APPLIED IN THE LOCATION TO PRODUCE THE MAXIMUM LOAD AFFECT.

STAMPED CALCULATIONS DEMONSTRATING THE REQUIRED CODE COMPLIANCE SHALL BE SUBMITTED BY THE STAIR SUPPLIER'S STRUCTURAL ENGINEER FOR REVIEW BY THE DESIGN TEAM.

8. THE ARCHITECT SHALL REVIEW ALL STAIR RISE AND RUN INFORMATION AS WELL AS LANDING AND RAILING CRITERIA.

ALL STEEL MEMBERS EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED PER ASTM A123. 2. FASTENERS AND HARDWARE SHALL BE HOT DIPPED GALVANIZED PER ASTM A153 OR ASTM B695 CLASS 50 (A490 BOLTS SHALL NOT BE HOT DIPPED GALVANIZED). STAINLESS STEEL FASTENERS AND HARDWARE MAY ALSO BE

3. ALL FIELD CUT OR DAMAGED SURFACES, FIELD WELDED AREAS AND AUTHORIZED NON-GALVANIZED MEMBERS AS INDICATED ON THE STRUCTURAL DRAWINGS SHALL BE REPAIRED WITH (2) COATS OF A 95% ZINC RICH PAINT PER ASTM A780 (ZRC PREFERRED).

STRUCTURAL WOOD FRAMING:

. IN-GRADE BASE VALUES HAVE BEEN USED FOR DESIGN.

DIMENSIONAL LUMBER FRAMING SHALL BE S4S HEM FIR NO. 2 AND BETTER UNO

SOLID TIMBER BEAMS AND POSTS SHALL BE DOUGLAS FIR-LARCH NO. 1 AND BETTER UNO. 4. STUDS SHALL BE DOUG FIR-LARCH STUD GRADE AND BETTER UNO

TOP AND BOTTOM PLATES SHALL BE DOUGLAS FIR-LARCH NO. 2 AND BETTER UNO

ALL LUMBER SHALL BE 19% MAXIMUM MOISTURE CONTENT AT THE TIME OF INSTALLATION UNO ALL WOOD EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED DOUGLAS FIR-LARCH OR SOUTHERN YELLOW PINE. PRESERVATIVE-TREATED WOOD SHALL BE TREATED IN ACCORDANCE WITH AWPA STANDARDS U1 AND M4. TREATMENTS SHALL HAVE NO AMMONIA ADDED AND SHALL BE THE FOLLOWING USE CATEGORY:

A. UC2 AT INTERIOR

B. UC3B AT EXTERIOR WITH NO GROUND CONTACT C. UC4B AT EXTERIOR WITH GROUND CONTACT

8. FASTENERS FOR USE WITH TREATED WOOD SHALL BE CORROSION RESISTANT IN ACCORDANCE WITH SECTION

9. ALL CONNECTORS USED WITH PRESSURE-TREATED MATERIAL SHALL BE STAINLESS STEEL ASTM 304 OR 316, OR HAVE A SIMPSON Z-MAX (G185) OR HDG COATING. STANDARD COATING (G90) IS ACCEPTABLE AT INTERIOR CONDITIONS WITH NON PRESSURE-TREATED LUMBER ONLY. CONNECTORS ARE TO BE IN ACCORDANCE WITH ASTM A653 OR ASTM 123.

10. ALL IRON AND STEEL PRODUCTS ATTACHED TO TREATED LUMBER SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123 OR SHALL BE TYPE 304 OR 316 STAINLESS STEEL 11. STRUCTURAL MEMBERS SHALL NOT BE CUT FOR PIPES, ETC. UNLESS SPECIFICALLY NOTED OR DETAILED ON

THE STRUCTURAL DRAWINGS. 12. ALL BOLTS SHALL BE RETIGHTENED PRIOR TO CLOSING IN OF WALLS, FLOORS, AND ROOFS. 13. ALL BOLTS BEARING ON WOOD SHALL HAVE STANDARD CUT WASHERS UNDER HEAD AND/OR NUT, UNO.

14. METAL FRAMING ANCHORS SHOWN OR REQUIRED, SHALL BE SIMPSON STRONG-TIE OR EQUAL CODE APPROVED CONNECTORS AND INSTALLED WITH ALL HOLES FILLED (ROUND AND TRIANGULAR) WITH THE MAXIMUM SIZE NAIL RECOMMENDED BY THE MANUFACTURER TO DEVELOP THE MAXIMUM RATED CAPACITY. 15. CONNECTOR BOLTS AND LAG SCREWS SHALL CONFORM TO ANSI/ASME B18.2.1 AND ASTM SAE J429 GRADE 1

16. NAILS AND SPIKES SHALL CONFORM TO ASTM F1667. 17. WOOD SCREWS SHALL CONFORM TO ANSI/ASME B18.6.1

18. LEAD HOLES FOR LAG SCREWS SHALL BE 40%-70% OF THE SHANK DIAMETER AT THE THREADED SECTION AND EQUAL TO THE SHANK DIAMETER AT THE UNTHREADED SECTION. 19. CONVENTIONAL LIGHT FRAMING SHALL COMPLY WITH IBC SECTION 2308. 20. COLUMNS / MULTIPLE STUDS IN BEARING WALLS SUPPORTING ALL BEAMS AND HEADERS SHALL OCCUR

CONTINUOUSLY THROUGH EACH FLOOR LEVEL DOWN TO THE FOUNDATION OR ANOTHER SUPPORT BEAM. SOLID SQUASH BLOCKING EQUIVALENT IN AREA TO THE COLUMN/MULTIPLE STUDS ABOVE SHALL BE PROVIDED WITHIN THE JOIST SPACE BENEATH THE COLUMN/MULTIPLE STUDS. 21. ALL BEAMS AND TRUSSES SHALL BE BRACED AGAINST ROTATION AT POINTS OF BEARING.

22. 2X BLOCKING SHALL BE PLACED BETWEEN JOISTS OR RAFTERS AT ALL SUPPORTS, UNO. 23. CROSS-BRIDGING OR SOLID BLOCKING SHALL BE PROVIDED AT 8'-0" MAX. FOR ALL JOISTS AND RAFTERS MORE THAN 10" IN DEPTH, 2X3 OR APPROVED METAL TYPE BRIDGING MAY BE USED.

24. PROVIDE A MINIMUM OF (3) STUDS AT EACH CORNER, UNO. 25. ALL JOISTS AND BEAMS (EXCLUDING I-JOISTS) SHALL BE SEAT-CUT FOR FULL UNIFORM BEARING AT SUPPORTS,

26. VENTING IS REQUIRED IN ALL ENCLOSED ROOF AND CRAWL SPACE FRAMING CAVITIES, SEE ARCHITECTURAL 27. EXCEPT AS NOTED OTHERWISE, MINIMUM NAILING SHALL BE PROVIDED AS SPECIFIED IN TABLE 2304.10.2

"FASTENING SCHEDULE" OF THE IBC. 28. ALL MULTIPLE MEMBER BEAMS SHALL BE NAILED TOGETHER WITH MAX NUMBER OF 10D NAILS VERTICALLY @ 3"

AND HORIZONTALLY @ 12" PER PLY. 29. TONGUE AND GROOVE DECKING SHALL BE INSTALLED IN ACCORDANCE WITH THE "STANDARD FOR TONGUE AND GROOVE HEAVY TIMBER ROOF DECKING", AITC 112. WHERE DECKING MUST BE NAILED FROM THE BOTTOM SIDE, USE (2) 16D GALVANIZED FINISH NAILS AT EACH SUPPORT, COUNTERSUNK AND FILLED.

30. ALL ROOF RAFTERS, JOISTS, TRUSSES, AND BEAMS SHALL BE ANCHORED TO SUPPORTS WITH H2.5A METAL FRAMING ANCHORS UNO. PROVIDE (2) WITHIN 4'-0" OF ALL CORNERS.

1. PLYWOOD AND ORIENTED STRAND BOARD (OSB) FLOOR AND ROOF SHEATHING SHALL BE APA RATED WITH STAMP INCLUDING APA TRADEMARK AND PANEL SPAN RATING

A. MINIMUM FLOOR SHEATHING: 23/32" APA STURD-I-FLOOR RATED 24 INCH O.C. TONGUE & GROOVE GLUED AND NAILED. B. MINIMUM ROOF SHEATHING: 23/32" OSB OR CDX PLYWOOD, APA 48/24, NAILED. . MINIMUM WALL SHEATHING: 7/16" OSB OR CDX PLYWOOD, APA 24/16, BLOCKED AND NAILED.

2. NAIL WALL SHEATHING WITH MINIMUM 8D COMMON OR 10D BOX AT 6" AT PANEL EDGES, AND 12" AT INTERMEDIATE FRAMING EXCEPT AS NOTED. BLOCK AND NAIL ALL EDGES BETWEEN STUDS. 3. MINIMUM (3) 8D NAILS PER STUD. NAIL ALL PLATES USING EDGE NAIL SPACING INDICATED.

4. SHEATHE ALL EXTERIOR WALLS. SHEATHE INTERIOR WALLS AS DESIGNATED ON THE DRAWINGS. 5. SHEATHING SHALL BE CONTINUOUS FROM BOTTOM PLATE TO TOP PLATE. CUT IN "L" AND "T" SHAPES AROUND OPENINGS. LAP SHEATHING OVER SINGLE 2X PLATE MEMBER AT RIM JOIST. AT RIM JOIST PROVIDE A MINIMUM

OF 3" BETWEEN SHEATHING EDGE AND TOP/BOTTOM EDGE OF RIM. 6. MINIMUM HEIGHT OF SHEATHING PANELS SHALL BE 16" TO ENSURE THAT PLATES ARE TIED TO STUDS. 7. ALL SHEATHING SHEETS SHALL HAVE 1/8" GAP AT ALL EDGES AND JOINTS.

 FULLY NAIL FLOOR SHEATHING IMMEDIATELY AFTER GLUING (DO NOT SPOT NAIL). 9. PROVIDE (1) PANEL SHEATHING CLIP AT ALL UNSUPPORTED ROOF SHEATHING PANEL EDGES. WHERE SPANS

ARE GREATER THAN 32" PROVIDE (2) CLIPS.

1. STRUCTURAL CAPACITIES OF STRUCTURAL COMPOSITE LUMBER SHALL BE IN CONFORMANCE WITH SECTION 2303.1.10 OF THE IBC.

MANUFACTURER OF STRUCTURAL COMPOSITE LUMBER PRODUCTS SHALL HAVE PROPER CODE EVALUATION REPORTS FOR ALL PRODUCTS AND SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.

3. THE CONTRACTOR SHALL NOT CUT. NOTCH, OR OTHERWISE ALTER STRUCTURAL COMPOSITE LUMBER MEMBERS WITHOUT WRITTEN PERMISSION OF THE STRUCTURAL ENGINEER AND THE MANUFACTURER; HOWEVER, HOLES

MAY BE CUT IN MEMBERS IN ACCORDANCE WITH THE MANUFACTURER'S ALLOWABLE HOLE CHART. MEMBERS NOTED AS LVL (LAMINATED VENEER LUMBER) ON PLAN SHALL BE 1-3/4" WIDE X DEPTH INDICATED, PLANT-FABRICATED, AND HAVE THE FOLLOWING MINIMUM ALLOWABLE DESIGN VALUES:

A. $F_b = 2600 \, PSI$ B. $F_v = 285 \text{ PSI}$ C. $F_{cPAR} = 2460 PSI$ D. $F_{CPERP} = 750 PSI$

E. E = 1900 KSI MEMBERS NOTED AS PSL (PARALLEL STRAND LUMBER) ON PLAN SHALL BE PLANT-FABRICATED AND HAVE TH FOLLOWING MINIMUM ALLOWABLE DESIGN VALUES:

A. $F_b = 2900 \, PSI$ B. $F_v = 290 \, PSI$ C. $F_{cPAR} = 2900 PSI$ D. $F_{cPERP} = 750 PSI$

F. F = 2000 KSI MEMBERS NOTED AS LSL (LAMINATED STRAND LUMBER) ON PLAN SHALL BE PLANT-FABRICATED AND HAVE T

FOLLOWING MINIMUM ALLOWABLE DESIGN VALUES: A. $F_b = 1700 \text{ PSI}$ B. $F_v = 400 \, PSI$ C. $F_{cPAR} = 1400 PSI$ D. $F_{cPERP} = 680 PSI$ E. E = 1300 KSI

BRIDGING AND BLOCKING SHALL BE INSTALLED ACCORDING TO THE FABRICATOR'S REQUIREMENTS WOOD I-JOISTS SHALL HAVE THE DEPTH, SPACING, SPAN, AND LAYOUT SHOWN ON THE DRAWINGS. MEMBERS SHALL BE FACTORY MANUFACTURED WITH ORIENTED STRAND BOARD (OSB) WEBS, LAMINATED VENEER LUMBER (LVL) OR MACHINE STRESS RATED (MSR) LUMBER FLANGES PER CODE APPROVAL BY ICB OR NER. STRUCTURAL WOOD FLANGES AND WEBS SHALL BE DESIGNED FOR STRUCTURAL CAPACITIES AND DESIGN PROVISIONS ACCORDING TO ASTM D 5055, SUBSTITUTION OF EQUIVALENT SERIES BY OTHERS SHALL BE SUBMITTED TO THE

STRUCTURAL ENGINEER FOR APPROVAL. 9. JOISTS SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS. HOLES IN WEBS SHALL NOT

EXCEED MANUFACTURER'S PUBLISHED LIMIT CRITERIA. 10. OPEN WEB TRUSSES SHALL HAVE THE DEPTH, SPACING, SPAN, AND LAYOUT SHOWN ON THE DRAWINGS. MEMBERS SHALL BE FACTORY MANUFACTURED WITH TUBULAR STEEL WEBS, AND LAMINATED VENEER LUMBER

(LVL) OR MACHINE STRESS RATED (MSR) LUMBER CHORDS PER CODE APPROVAL BY ICB OR NER. 11. OPEN WEB JOISTS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED TO CARRY THE LOADS INDICATED ON THE STRUCTURAL DRAWINGS.

12. MEMBER FORCES SHALL BE DETERMINED BY THE FABRICATOR. STRESSES SHALL NOT EXCEED THOSE ALLOWED 13. DEFLECTION LIMITS FOR WOOD I-JOISTS AND OPEN WEB JOISTS SHALL NOT EXCEED THE FOLLOWING

DEFLECTION CRITERIA: . ROOF LIVE LOAD = L/360 B. ROOF TOTAL LOAD = L/240 (1" MAXIMUM). FLOOR LIVE LOAD = L/480 D. FLOOR TOTAL LOAD = L/240 (1" MAXIMUM)

STRUCTURAL GLUED LAMINATED TIMBER:

 MATERIALS, MANUFACTURE, AND QUALITY CONTROL SHALL BE IN CONFORMANCE WITH ANSI/AITC A 190.1 "STRUCTURAL GLUED LAMINATED TIMBER" AND AITC 117 "STANDARD SPECIFICATIONS FOR STRUCTURAL GLUED LAMINATED TIMBER OF SOFTWOOD SPECIES, DESIGN AND MANUFACTURING REQUIREMENTS.'

GLUED LAMINATED ALASKAN YELLOW CEDAR BEAMS SHALL HAVE THE FOLLOWING MINIMUM ALLOWABLE DESIGN

VALUES: B. $F_v = 265 \, PSI$ C. $F_{cPAR} = 1550 PSI$ D. $F_{cPERP} = 560 PSI$

E. E = 1600 KSI SIMPLE SPAN BEAMS SHALL BE COMBINATION SYMBOL 20F-V12 WITH NO CAMBER.

CONTINUOUS AND CANTILEVERED MEMBERS SHALL BE COMBINATION SYMBOL 20F-V13 WITH NO CAMBER. COLUMNS SHALL BE COMBINATION #2 OR BETTER MEMBERS SHALL BE ARCHITECTURAL APPEARANCE GRADE.

SETTING PLATES, AND ITEMS FIELD-WELDED TO STRUCTURAL STEEL.

ADHESIVES SHALL MEET THE REQUIREMENTS FOR WET CONDITIONS OF SERVICE. SEAL CUT EDGES AND ENDS EXPOSED TO WEATHERING. 9. THE FABRICATOR SHALL FURNISH ALL ITEMS OF CONNECTION STEEL AND HARDWARE FOR JOINING TIMBER MEMBERS TO EACH OTHER AND TO THEIR SUPPORTS, EXCLUSIVE OF ANCHORAGE EMBEDDED IN MASONRY.

> SHEET TITLE S001 GENERAL NOTES S002 GENERAL NOTES, ABBREVIATION, & SYMBOLS KEY X X S003 3D SCHEMATIC VIEWS $X \mid X \mid X$ S004 | IBC STATEMENT OF SPECIAL INSPECTION $X \mid X \mid X$ S005 SNOW LOAD ROOF PLAN | X | X S006 UNBALANCED SNOW LOAD ROOF PLAN | X | X S100P DRILLED PIER PLAN X X S100 FOUNDATION/ CRAWLSPACE PLAN | X | X S101 LOWER LEVEL 1 FLOOR FRAMING PLAN $X \mid X \mid X$ S102 LOWER LEVEL 2 FLOOR FRAMING PLAN X X X S103 MAIN LEVEL FRAMING PLAN X X X S104 UPPER LEVEL FRAMING PLAN X | X | X S105 ROOF FRAMING PLAN S106 SHEAR WALL PLAN - LOWER LEVEL 1 X X S107 SHEAR WALL PLAN - LOWER LEVEL 2 X X S108 SHEAR WALL PLAN - MAIN LEVEL S109 SHEAR WALL PLAN - UPPER LEVEL X | X | X S300 FULL HEIGHT SECTIONS $X \mid X \mid X$ S301 FULL HEIGHT SECTIONS $X \mid X \mid X$ S400 SHEAR WALL DETAILS & SCHEDULES $X \mid X \mid X$ S401 SHEAR WALL ELEVATIONS X X X S402 SHEAR WALL ELEVATIONS $X \mid X \mid X$ S403 SHEAR WALL ELEVATIONS S404 SHEAR WALL ELEVATIONS $X \mid X \mid X$ S405 LATERAL FRAME ELEVATIONS $X \mid X \mid X$ S406 LATERAL FRAME ELEVATIONS S500 TYPICAL CONCRETE & STEEL SCHEDULES S501 TYPICAL CONCRETE & STEEL SCHEDULES S502 TYPICAL CONCRETE DETAILS X X X S503 TYPICAL STEEL DETAILS X X S504 TYPICAL WOOD SCHEDULES X X X S505 TYPICAL WOOD DETAILS X | X | S507 TYPICAL WOOD DETAILS X | X | X S508 TYPICAL WOOD DETAILS X | X | X S509 TYPICAL WOOD DETAILS

| X | X

X X

| X | X

| X | X

S510 FOUNDATION SECTIONS

S511 FOUNDATION SECTIONS

S521 FLOOR & ROOF SECTIONS

S522 FLOOR & ROOF SECTIONS

S520 FOUNDATION & FLOOR SECTIONS

STRUCTURAL DRAWING LIST



CODE

COMPLIANC

1319 Spruce Stree Boulder, CO 80302 303.444.1951 www.jvajva.com Boulder ● Fort Collins ● Winter Park Glenwood Springs . Denver

NOTICE: DUTY OF COOPERATION Release of these plans contemplates further cooperation among the owner, his contractor and the architect. Design and construction are complex. Although the architect and his consultants have performed their services with due care and diligence they cannot guarantee perfection. Communication is imperfect and every contingency cannot be anticipated Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to the architect. Failure to notify the architect compounds nisunderstanding and increases construction costs. A failure to cooperate by a simple notice to the archite shall relieve the architect from responsibility for the consequences. Changes made from the plans withou consent of the architect are unauthorized and shall relieve the architect of responsibility for all consequences arriving out of such changes.

All design, documents and data prepared by Eric Smith Associates, P.C. as instruments of service shall remain property of Eric Smith Associates, P.C and shall not be copied, changed or disclosed in any form whatsoever without first obtaining the express written consent of Eric Smith Associates, P.C. Eric Smith Associates, P.C

REVISIONS Description Date



22025 Job Number: 03/25/24 **BPK/LAB** <u>Drawn By:</u> MES **Checked By:**

Project Phase PERMIT

Sheet Title GENERAL NOTES

LIGHT-METAL-PLATE-CONNECTED WOOD TRUSSES:

- TRUSS MANUFACTURER SHALL COMPLY WITH ALL REQUIREMENTS AS STATED IN SECTION 2303.4 OF THE IBC. 2. ALL PRE-ENGINEERED GABLE END TRUSSES OR TRUSSES WITH INTEGRATED PARAPETS SHALL BE DESIGNED FOR WIND FORCES PERPENDICULAR TO THE TRUSS.
- 3. ALL PRE-ENGINEERED TRUSSES SHALL BE FABRICATED SUCH THAT THEY INCORPORATE ALL ROOF PLANES. AT CONTRACTOR'S OPTION, STANDARD SHAPE TRUSSES MAY BE USED IN CONJUNCTION WITH OVERFRAMING.
- FULL HEIGHT BLOCKING SHALL BE PLACED BETWEEN TRUSSES AT ALL SUPPORTS.
- CROSS BRIDGING DESIGN SHALL BE PROVIDED BY TRUSS MANUFACTURER AS REQUIRED FOR LATERAL
- 6. TRUSS MEMBERS AND COMPONENTS SHALL NOT BE CUT, NOTCHED, DRILLED, SPLICED OR OTHERWISE ALTERED
- IN ANY WAY WITHOUT WRITTEN APPROVAL OF A REGISTERED DESIGN PROFESSIONAL. MANUFACTURE AND INSTALLATION OF METAL PLATED WOOD TRUSSES SHALL COMPLY WITH ANSI/TPI 1 "NATIONAL DESIGN STANDARD FOR METAL-PLATE-CONNECTED WOOD TRUSS CONSTRUCTION," BCSI (BUILDING COMPONENT SAFETY INFORMATION) "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES," AND DSB-89 "RECOMMENDED DESIGN SPECIFICATION FOR
- TEMPORARY BRACING OF METAL PLATE CONNECTED WOOD TRUSSES." 8. PRE-ENGINEERED, PREFABRICATED TRUSSES SHALL BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE IN WHICH TO PROJECT IS LOCATED TO CARRY THE LOADS INDICATED ON THE STRUCTURAL DRAWINGS IN WHICH THE PROJECT IS LOCATED.
- 9. TRUSSES SHALL BE DESIGNED TO SUPPORT THE FULL DEAD LOADS AND THE SUPERIMPOSED DESIGN LOADS
- NOTED ABOVE OR ON THE DRAWINGS. 10. STRESSES SHALL NOT EXCEED THOSE LISTED IN THE NATIONAL DESIGN SPECIFICATION FOR WOOD
- CONSTRUCTION (AF&PA NDS). <NO INCREASES IN STRESS ARE ALLOWED FOR DURATION OF LOAD.> 11. SCISSOR TYPE TRUSSES SHALL BE DESIGNED FOR A MAXIMUM OF 1/2" TOTAL HORIZONTAL DEFLECTION UNDER DEAD PLUS LIVE LOADS
- 12. THE FABRICATOR SHALL DETERMINE TRUSS WEB ARRANGEMENTS AND MEMBER FORCES. 13. TRUSS TO TRUSS CONNECTIONS SPECIFIED SHALL BE BY TRUSS SUPPLIER. UNLESS SPECIFICALLY NOTED ON
- 14. TRUSSES SHALL BE DESIGNED IN BEARING TO NOT EXCEED THE PERPENDICULAR TO GRAIN BEARING VALUES FOR THE TOP PLATE GRADES INDICATED IN THE "STRUCTURAL WOOD FRAMING" GENERAL NOTES. WHERE TRUSS BEARING EXCEED THIS VALUE THE TRUSS MANUFACTURER SHALL PROVIDE BEARING ENHANCERS TO COMPENSATE FOR OVERSTRESSES. TRUSS MANUFACTURER SHALL SPECIFY SIZE, SPECIES, AND NAILING FOR
- BEARING BLOCKS. 15. TRUSS FABRICATOR SHALL SPECIFY ALL FLOOR AND ROOF TRUSS BRACING AND BRIDGING. 16. CALCULATIONS AND SHOP DRAWINGS, INCLUDING MEMBER SIZES, LUMBER SPECIES AND GRADES, AND SUBSTANTIATING DATA FOR CONNECTOR CAPACITIES, SHALL BE SUBMITTED TO THE ARCHITECT, GC, AND
- STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION. 17. TRUSS DESIGN SHALL INCLUDE A 250 LBS LOAD PER NFPA TO SUPPORT SPRINKLER LOADS LOCATED ANYWHERE
- ALONG THE BOTTOM CHORD OF THE TRUSS. 18. DEFLECTION LIMITS FOR TRUSSES SHALL NOT EXCEED THE FOLLOWING DEFLECTION CRITERIA:
 - A. ROOF LIVE LOAD = L/360
 - B. ROOF TOTAL LOAD = L/240 (1" MAXIMUM)C. FLOOR LIVE LOAD = L/480
 - D. FLOOR TOTAL LOAD = L/240 (1" MAXIMUM)

- 1. THE STRUCTURAL DRAWINGS ARE COPYRIGHTED AND SHALL NOT BE COPIED FOR USE AS ERECTION PLANS OR SHOP DETAILS. USE OF JVA'S ELECTRONIC FILES AS THE BASIS FOR SHOP DRAWINGS REQUIRES PRIOR APPROVAL BY JVA, A SIGNED RELEASE OF LIABILITY BY THE GENERAL CONTRACTOR AND/OR HIS
- SUBCONTRACTORS, AND DELETION OF JVA'S NAME AND LOGO FROM ALL SHEETS SO USED. THE GENERAL CONTRACTOR SHALL SUBMIT IN WRITING ANY REQUESTS TO MODIFY THE STRUCTURAL DRAWINGS OR PROJECT SPECIFICATIONS.
- 3. ALL SHOP AND ERECTION DRAWINGS SHALL BE CHECKED AND STAMPED (AFTER HAVING BEEN CHECKED) BY THE GENERAL CONTRACTOR PRIOR TO SUBMISSION FOR STRUCTURAL ENGINEER'S REVIEW; SHOP DRAWING SUBMITTALS NOT CHECKED BY THE GENERAL CONTRACTOR PRIOR TO SUBMISSION TO THE STRUCTURAL ENGINEER WILL BE RETURNED WITHOUT REVIEW.
- 4. FURNISH ELECTRONIC VERSION (PDF) OF SHOP AND ERECTION DRAWINGS TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION FOR:
 - A. CONCRETE MIX DESIGNS B. CONCRETE REINFORCING STEEL
 - CONCRETE SLAB ON GRADE CONTROL JOINT LAYOUT
 - STRUCTURAL STEEL
 - GLUED-LAMINATED TIMBER F. PLANT FABRICATED WOOD JOISTS
 - G. PRF-ENGINEERED WOOD TRUSSES H. FALL PROTECTION SYSTEM LAYOUT AND DESIGN
- SUBMIT IN A TIMELY MANNER TO PERMIT 10 WORKING DAYS FOR REVIEW BY THE STRUCTURAL ENGINEER.
- SHOP DRAWINGS SUBMITTED FOR REVIEW DO NOT CONSTITUTE "REQUEST FOR CHANGE IN WRITING" UNLESS SPECIFIC SUGGESTED CHANGES ARE CLEARLY MARKED. IN ANY EVENT, CHANGES MADE BY MEANS OF THE SHOP DRAWING SUBMITTAL PROCESS BECOME THE RESPONSIBILITY OF THE ONE INITIATING THE CHANGE.

STRUCTURAL ERECTION AND BRACING REQUIREMENTS:

- THE STRUCTURAL DRAWINGS ILLUSTRATE AND DESCRIBE THE COMPLETED STRUCTURE WITH ELEMENTS IN
- THEIR FINAL POSITIONS, PROPERLY SUPPORTED, CONNECTED, AND/OR BRACED. THE STRUCTURAL DRAWINGS ILLUSTRATE TYPICAL AND REPRESENTATIVE DETAILS TO ASSIST THE GENERAL CONTRACTOR. DETAILS SHOWN APPLY AT ALL SIMILAR CONDITIONS UNLESS OTHERWISE INDICATED. ALTHOUGH DUE DILIGENCE HAS BEEN APPLIED TO MAKE THE DRAWINGS AS COMPLETE AS POSSIBLE, NOT EVERY DETAIL IS ILLUSTRATED AND NOT EVERY EXCEPTIONAL CONDITION IS ADDRESSED.
- 3. ALL PROPRIETARY CONNECTIONS AND ELEMENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS.
- 4. ALL WORK SHALL BE ACCOMPLISHED IN A WORKMANLIKE MANNER AND IN ACCORDANCE WITH THE APPLICABLE CODES AND LOCAL ORDINANCES.
- 5. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL WORK, INCLUDING LAYOUT AND DIMENSION VERIFICATION, MATERIALS COORDINATION, SHOP DRAWING REVIEW, AND THE WORK OF SUBCONTRACTORS. ANY DISCREPANCIES OR OMISSIONS DISCOVERED IN THE COURSE OF THE WORK SHALL BE
- IMMEDIATELY REPORTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR RESOLUTION. 6. CONTINUATION OF WORK WITHOUT NOTIFICATION OF DISCREPANCIES RELIEVES THE ARCHITECT AND STRUCTURAL ENGINEER FROM ALL CONSEQUENCES.
- 7. UNLESS OTHERWISE SPECIFICALLY INDICATED, THE STRUCTURAL DRAWINGS DO NOT DESCRIBE METHODS OF
- 8. VERIFY ALL OPENINGS THROUGH FLOORS, ROOFS AND WALLS WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL REQUIREMENTS. COORDINATE DIMENSIONS WITH SUPPLIERS PRIOR TO FABRICATION.

DRAWINGS ARE THE RESPONSIBILITY OF THE EQUIPMENT SUPPLIER.

- 9. SIGNIFICANT PERMANENT EQUIPMENT SIZES, WEIGHTS AND LOCATIONS ARE INDICATED ON THE DRAWINGS AS PROVIDED TO THE ENGINEER DURING DESIGN. CHANGES IN SIZE, WEIGHT, OR LOCATION MUST BE SUBMITTED IN WRITING FOR REVIEW BY THE ENGINEER. REQUIRED CURBS, SUPPORTS, OR BRACES NOT SHOWN ON THE
- 10. THE GENERAL CONTRACTOR, IN THE PROPER SEQUENCE, SHALL PERFORM OR SUPERVISE ALL WORK NECESSARY TO ACHIEVE THE FINAL COMPLETED STRUCTURE, AND TO PROTECT THE STRUCTURE, WORKMEN, AND OTHERS DURING CONSTRUCTION. SUCH WORK SHALL INCLUDE, BUT NOT BE LIMITED TO TEMPORARY BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR EXCAVATION, FORMWORK, SCAFFOLDING, SAFETY DEVICES AND PROGRAMS OF ALL KINDS, SUPPORT AND BRACING FOR CRANES AND OTHER ERECTION
- 11. DO NOT BACKFILL AGAINST BASEMENT OR RETAINING WALLS UNTIL SUPPORTING SLABS AND FLOOR FRAMING ARE IN PLACE AND SECURELY ANCHORED, UNLESS ADEQUATE TEMPORARY BRACING IS PROVIDED.
- 12. TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL ALL FLOORS, WALLS, ROOFS AND ANY OTHER SUPPORTING ELEMENTS ARE IN PLACE.
- 13. THE ARCHITECT AND STRUCTURAL ENGINEER BEAR NO RESPONSIBILITY FOR THE ABOVE ITEMS, AND OBSERVATION VISITS TO THE SITE DO NOT IN ANY WAY INCLUDE INSPECTIONS OF THESE ITEMS.

PRECAUTIONARY NOTES ON STRUCTURAL BEHAVIOR:

SIMILAR OR MEASURABLE MOVEMENTS.

INTERIOR ARCHITECTURAL FINISH DETAILING MUST ACCOMMODATE THE RELATIVE DIFFERENTIAL MOVEMENTS

SUBSTANTIAL DEFLECTION. INTERIOR ELEMENTS HUNG FROM THE ROOF STRUCTURE WILL DEFLECT WITH THE

- OF SUPPORTING STRUCTURAL ELEMENTS. WHERE THE ROOF FRAMING ELEMENT SPANS ARE LONG, APPLIED LOADING WILL NATURALLY CAUSE
- 3. THE FLOOR IS A FLOATING CONCRETE SLAB-ON-GRADE AND MAY EXPERIENCE MOVEMENTS INDEPENDENT OF THE STRUCTURAL FOUNDATIONS. INTERIOR ELEMENTS SUPPORTED ON THE SLAB-ON-GRADE FLOOR WILL MOVE WITH THE FLOOR. INTERIOR ELEMENTS SUPPORTED ON FOUNDATIONS AND COLUMNS WILL NOT EXPERIENCE
- 4. EXTERIOR/PERIMETER WALL ASSEMBLIES HUNG FROM THE EDGE OF THE BUILDING STRUCTURE WILL BE DIRECTLY AFFECTED (TO SOME DEGREE) BY CHANGES IN EXTERNAL TEMPERATURE AND FLOOR DEFLECTION.
- 5. EXTERIOR/PERIMETER AND INTERIOR ARCHITECTURAL FINISH DETAILS SHOULD ALLOW FOR RELATIVE MOVEMENTS BETWEEN ELEMENTS WITH DIFFERENT SUPPORT CONDITIONS.

DEFERRED SUBMITTALS:

1. PORTIONS OF THE STRUCTURE HAVE ELEMENTS OF PROPRIETARY DESIGN AND FABRICATION, WHICH SHALL BE SUBMITTED BY THE SUPPLIER FOR APPROVAL AFTER AWARD OF CONTRACT.

TYPICAL INTERIOR STAIR ASSEMBLY

CONCRETE-FILLED STEEL PANS WITH CLOSED RISERS BETWEEN

ELEMENTS SHOWN ON THESE DRAWINGS AND ARCH DRAWINGS

CONCRETE-FILLED PANS WITH CLOSED RISERS AND

FRAME LANDINGS WITH CHANNELS OR ANGLES AS

STRUCTURAL/ARCHITECTURAL ELEMENTS. FRAMING

REQUIRED. SUPPORT LANDING WITH PIPE OR TUBE STEEL

COLUMNS OR HANGERS FROM FOUNDATION OR BEAMS AS

STAIR FABRICATOR SHALL DESIGN & DETAIL ALL MEMBERS

CONNECTIONS AND ASSEMBLIES REQIURED FOR FRAMING

CALCULATIONS, STAMPED AND SIGNED BY A REGISTERED

COORDINATE ALL STAIR ASSEMBLIES AND DETAILS WITH

DRILLED PIER

JOINT

KIP (1.000 LBS

STRINGERS PER ARCHITECTURAL DRAWINGS

REQUIRED TO AVOID INTERFERENCE WITH

SHOWN IS FOR SCHEMATIC PUROPOSES ONLY

AND SUPPORT OF STAIRS WHERE NOT SHOWN

COLORADO PROFESSIONAL ENGINEER, SHALL BE

SUBMITTED WITH THE STAIR SHOP DRAWINGS

ARCHITECTURAL AND STRUCTURAL DRAWINGS.

TYPICAL STAIR ASSEMBLY (EXCEPT AS NOTED):

STRINGERS; DESIGN & DETAILING OF STRINGERS, HEADERS, INTERMEDIATE LANDINGS, & RAILINGS BY STAIR SUPPLIER; COORDINATE STAIR ASSEMBLIES & DETAILS WITH FRAMING

- 2. THESE ITEMS SHALL CONFORM TO THE LOAD, CAPACITY, SIZE, GEOMETRY, CONNECTION, AND SUPPORT CRITERIA NOTED ON THE STRUCTURAL DRAWINGS.
- 3. SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED BY AN ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED. FINAL SHOP DRAWING SUBMITTALS SHALL BE STAMPED AND SIGNED.
- 4. FURNISH DEFERRED SUBMITTALS FOR:
 - A. CANOPIES, SUNSCREENS, AND SUNSHADES
 - B. OPEN-WEB WOOD TRUSSES C. STAIRS, HANDRAILS, AND GUARDRAILS
 - D. ANCHOR TENSION SYSTEM HOLD DOWNS (ATS)
 - E. STEEL JOISTS
- STRUCTURAL STEEL CONNECTIONS G. FALL PROTECTION SYSTEM LAYOUT AND DESIGN
- DEFERRED SUBMITTALS WILL BE REVIEWED BY THE STRUCTURAL ENGINEER OF RECORD FOR COMPLIANCE WITH THE SPECIFIED DESIGN REQUIREMENTS, STAMPED AS "REVIEWED," AND RETURNED TO THE CONTRACTOR. THE GENERAL CONTRACTOR SHALL FORWARD THE REVIEWED DEFERRED SUBMITTALS TO THE LOCAL BUILDING
- AUTHORITY FOR REVIEW AND APPROVAL BEFORE INSTALLATION OF DEFERRED SUBMITTAL ITEMS. 6. FINAL ISSUE OF THE BUILDING PERMIT MAY, AT THE APPROVAL AUTHORITY'S OPTION, BE CONTINGENT ON ITS APPROVAL OF THE DEFERRED SUBMITTAL DOCUMENTS.
- 7. DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN CALCULATIONS AND DRAWINGS HAVE BEEN REVIEWED BY THE ARCHITECT, STRUCTURAL ENGINEER, AND/OR LOCAL BUILDING AUTHORITY AS REQUIRED.

LETTERS OF CONSTRUCTION COMPLIANCE:

COMPLIANCE LETTER IS NEEDED.

- THE GENERAL CONTRACTOR SHALL DETERMINE FROM THE LOCAL BUILDING AUTHORITY, AT THE TIME THE BUILDING PERMIT IS OBTAINED, WHETHER ANY LETTERS OF CONSTRUCTION COMPLIANCE WILL BE REQUESTED FROM THE STRUCTURAL ENGINEER. 2. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ALL SUCH REQUIREMENTS IN WRITING PRIOR
- TO THE START OF CONSTRUCTION. 3. TWO-DAY ADVANCE NOTICE SHALL BE GIVEN WHEN REQUESTING SITE VISITS NECESSARY AS THE BASIS FOR
- THE COMPLIANCE LETTER. 4. THE GENERAL CONTRACTOR SHALL PROVIDE COPIES OF ALL THIRD-PARTY TESTING AND INSPECTION REPORTS TO THE ARCHITECT AND STRUCTURAL ENGINEER A MINIMUM OF ONE WEEK PRIOR TO THE DATE THAT THE

SPECIAL INSPECTIONS - 2021:

- 1. THE FOLLOWING SPECIAL INSPECTIONS AND TESTING SHALL BE PERFORMED BY A QUALIFIED SPECIAL INSPECTOR, RETAINED BY THE OWNER, IN ACCORDANCE WITH THE FOLLOWING SECTIONS OF IBC CHAPTER 17:
 - A. SECTION 1704 SPECIAL INSPECTIONS, CONTRACTOR RESPONSIBILITY, AND STRUCTURAL **OBSERVATIONS AND THE FOLLOWING SUB-SECTIONS:**
 - 1704.2 SPECIAL INSPECTIONS AND TESTS 2. 1704.3 STATEMENT OF SPECIAL INSPECTIONS
 - B. SECTION 1705 REQUIRED VERIFICATION AND INSPECTION AND THE FOLLOWING SUB-SECTIONS:
 - 1705.1.1 SPECIAL CASES
 - 1705.2 STEEL CONSTRUCTION
 - 1705.3 CONCRETE CONSTRUCTION
 - 4. 1705.5 WOOD CONSTRUCTION
 - 1705.6 SOILS
 - 1705.8 CAST-IN-PLACE DEEP FOUNDATIONS SECTION 1705.12 SPECIAL INSPECTIONS FOR WIND RESISTANCE AND THE FOLLOWING SUB-SECTIONS:
 - a. 1705.12.1 STRUCTURAL WOOD
 - b. 1705.12.3 WIND-RESISTING COMPONENTS 8. SECTION 1705.13 SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE AND THE FOLLOWING SUB-
 - SECTIONS:
 - a. 1705.13.1 STRUCTURAL STEEL 1705.13.2 STRUCTURAL WOOD
 - 1705.13.4 DESIGNATED SEISMIC SYSTEM
 - d. 1705.13.8 SEISMIC ISOLATION SYSTEM
 - 9. SECTION 1705.14 STRUCTURAL TESTING FOR SEISMIC RESISTANCE AND THE FOLLOWING SUB SECTIONS:
 - a. 1705.14.1 STRUCTURAL STEEL 1705.14.3 DESIGNATED SEISMIC SYSTEMS (SDC C. D. E. OR F)
 - c. 1705.14.4 SEISMICALLY ISOLATED STRUCTURES C. SECTION 1706 DESIGN STRENGTHS OF MATERIALS
 - D. SECTION 1707 ALTERNATIVE TEST PROCEDURES
 - SECTION 1708 IN-SITU LOAD TESTS SECTION 1709 PRECONSTRUCTION LOAD TESTS
- 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 REQUIRING SPECIAL INSPECTION. THE APPROVED INSPECTOR MUST BE INDEPENDENT FROM THE CONTRACTOR RESPONSIBLE FOR THE WORK BEING INSPECTED.
- 3. DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR SHALL BE TO INSPECT AND/OR TEST THE WORK OUTLINED ABOVE AND WITHIN THE STATEMENT OF SPECIAL INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE IBC FOR CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.
- 4. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION.
- 5. PER SECTION 1704.2.4 THE SPECIAL INSPECTOR SHALL FURNISH REGULAR REPORTS TO THE BUILDING OFFICIAL AND THE STRUCTURAL ENGINEER. PROGRESS REPORTS FOR CONTINUOUS INSPECTION SHALL BE FURNISHED WEEKLY. INDIVIDUAL REPORTS OF PERIODIC INSPECTIONS SHALL BE FURNISHED WITHIN ONE WEEK OF INSPECTION DATES. THE REPORTS SHALL NOTE UNCORRECTED DEFICIENCIES, CORRECTION OF PREVIOUSLY REPORTED DEFICIENCIES, AND CHANGES TO THE APPROVED CONSTRUCTION DOCUMENTS AUTHORIZED BY THE STRUCTURAL ENGINEER OF RECORD.
- THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT WITHIN 10 DAYS OF THE FINAL SPECIAL INSPECTION STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE IBC. WORK NOT IN COMPLIANCE SHALL BE NOTED IN THE
- 7. THE CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON A MAIN WIND- OR SEISMIC-FORCE-RESISTING SYSTEM PER SECTION 1704.4. THE STATEMENT SHALL ACKNOWLEDGE THE AWARENESS OF THE SPECIAL LISTED REQUIREMENTS OF DESIGNATED SEISMIC SYSTEM OR A WIND- OR SEISMIC-RESISTING COMPONENT IN THE STATEMENT OF SPECIAL INSPECTIONS PER SECTION 1705.
- EXCEPT AS NOTED, THE SPECIAL INSPECTIONS OUTLINED ABOVE ARE IN ADDITION TO, AND BEYOND THE SCOPE OF, PERIODIC STRUCTURAL OBSERVATIONS AS DEFINED IN SECTION 1704.6. STRUCTURAL OBSERVATIONS ARE INCLUDED IN THE STRUCTURAL ENGINEERING DESIGN AND CONSTRUCTION ADMINISTRATION SERVICES PROVIDED BY THE STRUCTURAL ENGINEER.

			ABBREVIA	TIONS KE	:Υ			SORENOS
@	ON CENTER SPACING	DWG	DRAWING	LGS	LIGHT GAGE STEEL			80 2 3-25-240 E
(E)	EXISTING	DWL	DOWEL	LL	LIVE LOAD	REINF	REINFORCE, -ED, -ING	3-25-240 40336
(N)	NEW	EA	EACH	LLH	LONG LEG HORIZONTAL	REQ	REQUIRED	9 5 40336
(R)	REMOVE	ECC	ECCENTRIC	LLV	LONG LEG VERTICAL	REQMT	REQUIREMENT	WILL CAR
AB	ANCHOR ROD (BOLT)	E-E	END TO END	LOC	LOCATION	RET	RETAINING	
ADDL	ADDITIONAL	EF	EACH FACE	LP	LOW POINT	RM	ROOM	
ADJ	ADJUSTABLE	EJ	EXPANSION JOINT	LSL	LAMINATED STRAND	RMO	ROUGH MASONRY OPENING	SONAL ENGOS
	ARCHITECTURALLY EXPOSED				LUMBER (GENERIC TERM)			
AESS	STRUCTURAL STEEL	EL	ELEVATION	LT	LIGHT	RO	ROUGH OPENING	DEV/JEW/ED
AFF	ABOVE FINISHED FLOOR	ELEC	ELECTRIC, ELECTRICAL	LVL	LAMINATED VENEER LUMBER (GENERIC TERM)	SC	SLIP-CRITICAL	REVIEWED
ALT	ALTERNATE	EMBED	EMBEDMENT	MACH	MACHINE	SCH	SCHEDULE	FOR
AMT	AMOUNT	ENGR	ENGINEER OF BECORD	MASY	MASONRY	SDST	SELF-DRILLING/	
ANCH	ANCHOR, ANCHORAGE	EOR EQ	ENGINEER OF RECORD EQUAL	MATL	MATERIAL	SECT	SELF-TAPPING SECTION	CODE
	APPROXIMATE	EQUIP	EQUIPMENT	MAX	MAXIMUM	SF	SQUARE FEET, SUB-FLOOR	COMPLIANCE
ARCH	ARCHITECT, -URAL	EQUIV	EQUIVALENT	MB	MACHINE BOLT	SHT	SHEET	COMPLIANCE
ATR	ALL THREAD ROD	ES	EACH SIDE	MECH	MECHANICAL	SHTG	SHEATHING	04/04/0005
				+				04/01/2025
AVG	AVERAGE	EST	ESTIMATE	MEZZ	MEZZANINE	SIM	SIMILAR	
BC	BOTTOM OF CONCRETE	E-W	EAST TO WEST	MFR	MANUFACTURE, -ER, -ED	SLH	SHORT LEG HORIZONTAL	
BL	BRICK LEDGE	EXC	EXCAVATE	MIN	MINIMUM	SLV	SHORT LEG VERTICAL	
BLK	BLOCK	EXP	EXPANSION	ML	MICROLLAM (TRUS-JOIST BRAND LVL), MASONRY LINTEL	SOG	SLAB ON GRADE	
BLKG	BLOCKING	EXT	EXTERIOR	MO	MASONRY OPENING	SP	SPACES, SPACED	
BM	BEAM	FD	FLOOR DRAIN	MTL	METAL	SPEC	SPECIFICATIONS	
ВОТ	BOTTOM	FDN	FOUNDATION	NF	NEAR FACE	SQ	SQUARE	
BRG	BEARING	FF	FINISHED FLOOR, FAR FACE		NOT IN CONTRACT	SSR	SHEAR STUD RAIL	
BW	BOTTOM OF WALL	F-F	FACE TO FACE	NS	NEAR SIDE	ST	SNUG-TIGHT	
CB	COUNTERBORE	FIG	FIGURE	N-S	NORTH TO SOUTH	STD	STANDARD	
CF	CUBIC FOOT	FL	FLUSH	NTS	NOT TO SCALE	STIFF	STIFFENER	
CFS	COLD-FORMED STEEL	FLG	FLANGE	OCJ	OSHA COLUMN JOIST	STL	STEEL	
CG	CENTER OF GRAVITY	FLR	FLOOR	OD	OUTSIDE DIAMETER	STRUCT		
CIP	CAST-IN-PLACE	FO	FACE OF	OF	OUTSIDE FACE	SUPT	SUPPORT	
	CONSTRUCTION JOINT,					SY	SQUARE YARD	
CJ	CONTROL JOINT	FP	FULL PENETRATION	ОН	OPPOSITE HAND			
CJP	COMPLETE JOINT PENETRATION	FS	FOOTING STEP, FAR SIDE	OPNG	OPENING	SYM	SYMMETRICAL	
CL	CENTER LINE	FTG	FOOTING	OPP	OPPOSITE	T&B	TOP AND BOTTOM	
CLG	CEILING	GA	GAGE, GAUGE	OSB	ORIENTED STRAND BOARD	T&G	TONGUE AND GROOVE	
CLR	CLEAR	GALV	GALVANIZED	PAF	POWDER ACTUATED FASTENER	ТВ	TOP OF BEAM	
CM	CONSTRUCTION	00	OFNEDAL CONTRACTOR	DC		TC	TOP OF CONCRETE	
CM	MANAGER, -MENT	GC	GENERAL CONTRACTOR	PC	PRECAST		TORQUE-CONTROLLED	
CMU	CONCRETE MASONRY UNIT	GEN	GENERAL	PCF	POUNDS PER CUBIC FOOT	TCA	ANCHOR	
COL	COLUMN	GL	GLUED LAMINATED, GLULAM	PE	PRE-ENGINEERED	TD	TOP OF DECK	
СОМ	COMMON	GND	GROUND	PEN	PENETRATION	THD	THREAD	
СОМВ	COMBINATION	GR	GRADE	PERP	PERPENDICULAR	THK	THICK, -NESS	
CONC	CONCRETE	GT	GIRDER TRUSS	PJP	PARTIAL JOINT PENETRATION	TJ	TOP OF JOIST	
CONN	CONNECTION	GYP BD	GYPSUM BOARD	PL	PLATE	TL	TOTAL LOAD	
CONT	CONTINUOUS, CONTINUE	HAS	HEADED ANCHOR STUD	PLF	POUND PER LINEAR FOOT	TPG	TOPPING	
COORD	COORDINATE,	HDG	HOT-DIP GALVANIZED	PNL	PANEL	TRANS	TRANSVERSE	
	COUNTERSINK			DD	PANEL POINT	TW	TOD OF WALL	
CS	COUNTERSINK	HDR	HEADER	PP			TOP OF WALL	
CTR	CENTER	HORIZ	HORIZONTAL	PS	PRESTRESSED	TYP	TYPICAL	
CY	CUBIC YARD	HP	HIGH POINT	PSF	POUNDS PER SQUARE FOOT	ULT	ULTIMATE	
DAB	DEFORMED ANCHOR BAR	HT	HEIGHT	PSI	POUNDS PER SQUARE INCH PARALLEL STRAND LUMBER	UNO VERT	UNLESS NOTED OTHERWISE VERTICAL	
DET	DETAIL	ID	INSIDE DIAMETER	PSL	(GENERIC TERM) POST TENSIONED,	VIF		
DEV	DEVELOP	IF	INSIDE FACE	PT	PRESSURE TREATED		VERIFY IN FIELD	
DIAG	DIAGONAL	INT	INTERIOR, INTERMEDIATE	PTN	PARTITION	WP	WORK POINT	
DIM	DIMENSION	IT	INVERTED TEE	PWD	PLYWOOD	WT	WEIGHT	
DL	DEAD LOAD	JB	JOIST BEARING	QTY	QUANTITY	WWF	WELDED WIRE FABRIC	
חא	DOWN	ICT	IOICT	D	DADILIC	VC	EVIDA CIDONO	

ABBREVIATIONS KEY

				SYMBOLS KEY									
	DIRECTION OF DECK SPAN			TOP OF CONCRETE OR			WOOD BEARING WALL						
(GRID)	GRID DESIGNATION	•	/	MASONRY ELEVATION			WOOD SHEAR WALL						
GRID	GRID DEGIGNATION		[XXX'-X]	TOP OF BEAM ELEVATION		A	COLUMN <u>ABOVE</u>						
À	REVISION		JB XXX'-X	JOIST BEARING ELEVATION		B	OCCURINY <u>NEOVE</u>						
X SX	INDICATES STRUCTURAL ELEVATION		BL XXX'-X	BRICK LEDGE ELEVATION			COLUMN <u>BELOW</u>						
SWx	SHEAR WALL	_	(XXX'-X)	TOP OF FOOTING ELEVATION	SNS	CXX	COLUMN OR OTHER ELEMENT BELOW SEE SCHEDULES & NOTES						
\bigcirc	SHORING		• XXX'-X	TOP OF FLOOR ELEVATION	SNATIO		Cx = COLUMN						
7777	STEP IN FLOOR ELEVATION		CONT C	COLUMN CONTINUOUS FROM LEVEL BELOW	N DESI	Tuo	BPx = BASE PLATE						
	CMU (CONCRETE MASONRY UNIT)	IATIONS	CXX	COLLINAL CTARTING AT THE LEVEL	COLUM	CONT	COLUMN CONTINUOUS FROM LEVEL B						
	BRICK	DESIGN		COLUMN STARTING AT THIS LEVEL COLUMN STOPPING BELOW THIS LEVEL,	BUILDING COLUMN DESIGNATIONS	M AL	"X" NUMBER OF KING STUDS BELOW "Y" NUMBER OF TRIMMER STUDS BELOW						
		BUILDING COLUMN DESIGNATIONS	I NWN [- NWN [OLUMN [OLUMN [OLUMN [<u> </u>	SEE FRAMING PLAN AT NEXT LOWER LEVEL	BU	WPXY	"WP" = WOOD POST "X" = NUMBER OF STUDS	
	CIP CONCRETE		CXX STUB	COLUMN STARTING AND ENDING AT THIS LEVEL OF FRAMING		, W	"Y" = NOMINAL STUD DIMENSION "LVL" = LAMINATED VENEER LUMBER						
	PRECAST CONCRETE		CXX HGR	COLUMN CONNECTING A LOWER BEAM TO A HIGHER BEAM AT THIS		FAITA	"X" = NUMBER OF PLY'S "Y" = WIDTH OF LVL						
1 4. 4. 4°. '40 . 4°.	EXISTING CONCRETE		(B)	LEVEL OF FRAMING INDICATES BRACED BAY MARK		□ ◆ HDx	HOLDOWN						
	EARTH	X		INDICATES BRACED BAY ELEVATION			WOOD HEADER						
	LAKITI			INDICATES BRACED BAT ELEVATION	, <u> </u>	4	WOOD JOIST OR BEAM						
FX.X	ISOLATED SPREAD FOOTING MARK		SAW	INDICATES BRACED MEMBER (ON PLAN)			SUPPORTED BY METAL HANGER						
FXX	SPREAD FOOTING MARK			INDICATES CONFIGURATION OF		-							
STEP	STEP IN BOTTOM OF WALL/GRADE BEAM	BRACED/FRAME BAY								INVERTED CHEVRON-TYPE BRACED BAY WITH HSS DIAGONAL BRACES			WOOD JOIST CONTINUOUS OVER
DP-XXM {Y}	{Y} = BEDROCK PENETRATION					INDICATES CONFIGURATION OF SINGLE DIAGONAL BRACED BAY WITH HSS DIAGONAL BRACE			INTERMEDIATE SUPPORT WOOD JOIST BEARING ON TOP OF SU				
XX:12	(XX'-X") = TOP OF PIER ELEVATION ROOF SLOPE	3RAC		INDICATES RIGID (MOMENT) FRAME WITH			WOOD JOIST BEARING ON TOP OF 50						
SLOPE	DIRECTION OF SLOPE (DOWN)	"	RF	FULL PENETRATION WELDED BEAM FLANGE TO COLUMN CONNECTIONS									
DN UP	STAIR OR RAMP DIRECTION	-		INDICATES RIGID (MOMENT) FRAME									
<u>→</u>	STRESSING END ANCHOR	_	X	ELEVATION W/ FULL PENETRATION WELDED BEAM FLANGE TO COLUMN CONNECTIONS									
<u> </u>	DEAD END ANCHOR	-	4	INDICATES BRACED BAY OR FRAMED									
—	INTERMEDIATE ANCHOR			BAY COLUMN BASE FULLY WELDED MOMENT FRAME									
T∩T∧I -/	DW DRIFT			CONNECTION									
SNOW LOAD, pf + pd XX psf S	IDTH, w	_	<□▷	CANTILEVER MOMENT CONNECTION									
	XX psf SL DRIFT LOAD,pd	_		LOCATION OF BEND IN BENT BEAM									
	w=X' BALANCED XX psf DL SNOW LOAD,pf		<x></x>	NUMBER OF HEADED ANCHOR STUDS									

REFERENCE, REFER TO

EXTRA STRONG

XXS | DOUBLE EXTRA STRONG

XSECT | CROSS SECTION



Boulder ● Fort Collins ● Winter Park Glenwood Springs . Denver

NOTICE: DUTY OF COOPERATION Release of these plans contemplates further cooperation among the owner, his contractor and the architect. Design and construction are complex. Although the architect and his consultants have performed their services with due care and diligence they cannot guarantee perfection. Communication is imperfect and every contingency cannot be anticipated Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to the architect. Failure to notify the architect compounds nisunderstanding and increases construction costs. A failure to cooperate by a simple notice to the architec shall relieve the architect from responsibility for the consequences. Changes made from the plans withou consent of the architect are unauthorized and shall relieve the architect of responsibility for all consequences arriving out of such changes.

All design, documents and data prepared by Eric Smith Associates, P.C. as instruments of service shall remain property of Eric Smith Associates, P.C and shall not be copied, changed or disclosed in any form whatsoever without first obtaining the express written consent of Eric Smith Associates, P.C. Eric Smith Associates, P.C

	REVISION	S
No.	Description	Date

22025 Job Number: 03/25/24 **BPK/LAB** <u>Drawn By:</u> MES **Checked By:**

Project Phase

SYMBOLS KEY

PERMIT **Sheet Title** GENERAL NOTES, **ABBREVIATION. &**



www.jvajva.com Boulder ● Fort Collins ● Winter Park Glenwood Springs ● Denver JVA #22025 NOTICE: DUTY OF COOPERATION

NOTICE: DUTY OF COOPERATION

Release of these plans contemplates further cooperation among the owner, his contractor and the architect. Design and construction are complex. Although the architect and his consultants have performed their services with due care and diligence, they cannot guarantee perfection. Communication is imperfect and every contingency cannot be anticipated. Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to the architect. Failure to notify the architect compounds misunderstanding and increases construction costs. A failure to cooperate by a simple notice to the architect shall relieve the architect from responsibility for the consequences. Changes made from the plans without consent of the architect of responsibility for all consequences arriving out of such changes. All design, documents and data prepared by Eric Smith Associates, P.C. as instruments of service shall remain property of Eric Smith Associates, P.C. and shall not be copied, changed or disclosed in any form whatsoever without first obtaining the express written consent of Eric Smith Associates, P.C.

Eric Smith Associates, P.C. **REVISIONS**

No. Description Date

Job Number: Date: 03/25/24 Drawn By: Checked By:

Project Phase PERMIT

Sheet Title
3D SCHEMATIC VIEWS

	SOIL	SPECIAL	. INSPECTION (IBC 1705.6)		
ITEM	REQUIRED QUALIFICATIONS	FREQUENCY	DETAILED INSTRUCTIONS	PERIODIC TEST OR INSPECTION FREQUENCY	SOIL Infrequent
CONTROLLED STRUCTURAL FILL			(IBC 1705.6)		
Excavations	PE/GE	Periodic	Verify excavations extend to proper depth and material prior to placement of compacted fill or concrete.		
Fill materials	PE/GE	Periodic	Perform classification and testing of compacted fill materials. Check for proper classifications and gradations at each lift and not less than once for each 10,000ft² of surface area.		
Placement and compaction		Continuous	Verify proper materials, densities and lift thicknesses during placement and compaction.		
Subgrade preparation	PE/GE	Periodic	Verify that subgrade has been appropriately prepared prior to placing compacted fill.		
Density		Continuous	Test density of each lift by nuclear methods (ASTM D2922).		
CAST-IN-PLACE DEEP FOUNDATIONS			(IBC 1705.8)		
Drilling operation	PE/GE	Continuous	Observe drilling operations and maintain complete and accurate records for each element.		
Drilling operation	PE/GE	Continuous	Verify placement locations & plumbness, confirm element diameters, lengths, embedment and adequate end-bearing capacity. Record concrete or grout volumes.		
Additional inspections	PE/GE	Continuous	Concrete per IBC 1705.3		

SIEEL	L SPECIAL I	NOFECT	ION (IBC 1705.2, 1705.12.3 & 1705.1		
ITEM FABRICATORS	REQUIRED QUALIFICATIONS	FREQUENCY	DETAILED INSTRUCTIONS	PERIODIC TEST OR INSPECTION FREQUENCY	Infreque
In-plant Inspection	AWS/AISC-SSI		(IBC 1704.2.5 & 1705.11) Required unless Fabricator is approved and follows		
	ICC-SWSI		procedures of 1704.2.5.1		
PRIOR TO WELDING Verify welding procedures (WPS) and consumable certificates	AWS-CWI ASNT	Continuous	(TABLE N5.4-1, AISC 360-16)		
Material identification	AWS-CWI ASNT	Periodic	Verify type and grade of material.		
Nelder identification	AWS-CWI ASNT	Periodic Periodic	A system shall be maintained by which a welder who has welded a joint or member can be identified. Verify joint preparation, dimensions, cleanliness, tacking, and		
Fit-up CJP groove welds of HSS joints	AWS-CWI ASNT	Periodic	backing. Verify joint preparation, dimensions, cleanliness, and tacking		
without backing Access holes	AWS-CWI ASNT	Periodic	Verify configuration and finish.		
Fit-up of fillet welds	AWS-CWI ASNT	Periodic	Verify alignment, gaps at root, cleanliness of steel surfaces, and tack weld quality and location.		
DURING WELDING	AVA/C CVA/L ACAIT	Dariadia	(TABLE N5.4-2, AISC 360-16)		
Use of qualified welders Control and handling of welding	AWS-CWI ASNT AWS-CWI ASNT	Periodic Periodic	Verify that welders are appropriately qualified. Verify packaging and exposure control.		
consumables			,, ,		
Cracked tack welds	AWS-CWI ASNT	Periodic	Verify that welding does not occur over cracked tack welds.		
Environmental conditions	AWS-CWI ASNT	Periodic	Verify wind speed is within limits as well as precipitation and temperature.		
WPS followed	AWS-CWI ASNT	Periodic	Verify items such as settings on welding equipment, travel speed, welding materials, shielding gas type/flow rate, preheat applied, interpass temperature maintained, and proper position.		
Welding techniques	AWS-CWI ASNT	Periodic	Verify interpass and final cleaning, each pass is within profile		
AFTER WELDING			limitations, and quality of each pass. (TABLE N5.4-3, AISC 360-10)		
Welds cleaned	AWS-CWI ASNT	Periodic	Verify that welds have been properly cleaned.		
Size, length, and location of welds	AWS-CWI ASNT	Continuous			
Welds meet visual acceptance criteria	AWS-CWI ASNT	Continuous			
Arc strikes Weld access holes in heavy shapes	AWS-CWI ASNT AWS-CWI ASNT	Continuous Continuous			
Repair activities	AWS-CWI ASNT	Continuous			
Document acceptance or rejection of	AWS-CWI ASNT	Continuous			
velded joint/member NONDESTRUCTIVE TESTING			(SECTION N5.5, AISC 360-10)		
CJP welds (Risk Cat. II)	AWS-CWI ASNT	Periodic	Ultrasonic testing shall be performed on 100% of CJP groove welds in butt, T- and corner joints subject to transversely applied tension loading in materials 5/16-inch thick or greater. Testing rate must be increased if > 5% of welds tested have unacceptable defects.		
Access holes (flange > 2")	AWS-CWI ASNT	Continuous			Yes
Welded joints subject to fatigue PRIOR TO BOLTING Not required if only snug-tight joints are specified per Section N5.6(1) of AISC 360-10.	AWS-CWI ASNT	Continuous	(TABLE N5.6-1, AISC 360-10)		
Certifications of fasteners	AWS/AISC-SSI ICC-SWSI	Continuous			
Fasteners marked	AWS/AISC-SSI ICC-SWSI	Periodic	Verify that fasteners have been marked in accordance with ASTM requirements.		
Proper fasteners for joint	AWS/AISC-SSI	Periodic	Verify grade, type, and bolt length if threads are excluded		
Proper bolting procedure	ICC-SWSI AWS/AISC-SSI ICC-SWSI	Periodic	from the shear plane. Verify proper procedure is used for the joint detail.		
Connecting elements	AWS/AISC-SSI	Periodic	Verify appropriate faying surface condition and hole		
Pre-installation verification testing	ICC-SWSI AWS/AISC-SSI	Periodic	preparation, if specified, meet requirements. Observe and document verification testing by installation		
	ICC-SWSI	D : "	personnel for fastener assemblies and methods used.		
Proper storage	AWS/AISC-SSI ICC-SWSI	Periodic	Verify proper storage of bolts, nuts, washers, and other fastener components.		
DURING BOLTING			(TABLE N5.6-2, AISC 360-16)		_
Not required if only snug-tight joints are specified per Section N5.6(1) of AISC 360-16.					
Not required for pretensioned joints using turn-of-the-nut method with natch-marking, direct-tension-indicators, or twist-off type tension control method per Section N5.6(2) of AISC 360-16.					
Fastener assemblies	AWS/AISC-SSI ICC-SWSI	Periodic	Verify that fastener assemblies are of suitable condition, paced in all holes, and washers are positioned as required.		
Snug-tight prior to pretensioning	AWS/AISC-SSI ICC-SWSI	Periodic	Verify that joints are brought to snug-tight condition prior to pretensioning operation.		
-astener component	AWS/AISC-SSI ICC-SWSI	Periodic	Verify that fastener component is not turned by wrench prevented from rotating.		
Pretensioned fasteners	AWS/AISC-SSI ICC-SWSI	Periodic	Verify that fasteners are Pretensioned in accordance with RCSC Specification, progressing systematically from the most rigid point toward the free edges.		
AFTER BOLTING	V/V/C/V100 001	Continue	(TABLE N5.6-3, AISC 360-16)		
Document acceptance or rejection of polited connections	AWS/AISC-SSI ICC-SWSI	Continuous			
OTHER STEEL INSPECTIONS			(SECTION N5.7, AISC 360-16; Tables J8-1 & J10-1, AISC		
Structural steel details	PE/SE	Periodic	All fabricated steel or steel frames shall be inspected to verify compliance with the details shown in the construction documents, such as braces, stiffeners, member locations, and		
Anchor rods and other embedments supporting structural steel	ACI-CCI	Periodic	proper application of joint details at each connection. Shall be on the premises during the placement of anchor rods and other embedments supporting structural steel for compliance with construction documents. Verify the diameter, grade, type, and length of the anchor rod or embedded item, and the extent or depth of embedment prior to placement of		

ITEM	REQUIRED QUALIFICATIONS	FREQUENCY	DETAILED INSTRUCTIONS	PERIODIC TEST OR INSPECTION FREQUENCY	MAS Infrequer
PRIOR TO CONSTRUCTION			(TABLE 3, TMS-602/ACI530.1-16)		· ·
Review material certificates, mix designs, test results and construction procedures	PE		Verify that materials conform to the requirements of the approved construction documents. Mix design, test results, material certificates, and construction procedures should be submitted for review. Mortar mix designs shall conform to ASTM C 270 while grout shall conform to ASTM C 476. Material certificates shall be provided for the following: reinforcement; anchors, ties, fasteners, and metal accessories; masonry units; mortar and grout materials. Construction procedures for cold-weather or hot-weather construction shall be reviewed.		
AS CONSTRUCTION BEGINS			(TABLE 4, TMS-602/ACI530-16)		
Proportions of site-prepared mortar	ICC-SMSI	Periodic	Verify that mortar is of the type and color specified on the construction documents, that it conforms to ASTM C 270, and that it is mixed in accordance with Article 2.6 A of TMS-602.		
Grade, type, and size of reinforcement connectors, anchor bolts, and prestressing tendons and anchorages	ICC-SMSI	Periodic	Verify that reinforcement is placed in accordance with Article 3.4 of TMS 602. Prestressing tendons shall be placed per Article 3.6 A.		
Sample panel construction	ICC-SMSI	Periodic	Construct sample panels of masonry walls that complies with Article 1.6D of TMS-602		
PRIOR TO GROUTING			(TABLE 4, TMS-602/ACI530-16)		
Grout space	ICC-SMSI	Periodic	Verify that grout space is free of mortar droppings, debris, loose aggregate, and other deleterious materials and that cleanouts are provided per Article 3.2 D and 3.2 F of TMS-602.		
Placement of reinforcement, connectors, and prestressing tendons and anchorages	ICC-SMSI	Periodic	Verify that reinforcement, joint reinforcement, wall ties, anchor bolts and veneer anchors are installed in accordance with the approved construction documents and Articles 3.2 E, 3.4, and 3.6 A of TMS 602.		
DURING MASONRY CONSTRUCTION			(TABLE 4, TMS-602/ACI530-16)		
Size and location of structural elements	ICC-SMSI	Periodic	Verify the locations of structural elements with respect to the approved plans and confirm that tolerances meet the requirements of Article 3.3 F of TMS 602.		
Materials and procedures with the approved submittals	ICC-SMSI	Periodic	Verify materials and construction procedures are in accordance with approved submittals per Article 1.5 of TMS-602		
Placement of masonry units and mortar joint construction	ICC-SMSI	Periodic	Verify placement of masonry units and mortar joints are in accordance with Article 3/3B of TMS-602		
Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction	ICC-SMSI	Periodic	Verify that correct anchorages and connections are provided per the approved plans and Sections 1.16.4.3 and 1.17.1 of TMS 402		
Welding of reinforcement	ICC-SMSI AWS-CWI	Continuous			
Preparation, construction, and protection of masonry during cold weather (<40°F) or hot weather (>90°F).	ICC-SMSI	Periodic	Verify that cold-weather construction is performed in accordance with Article 1.8 C of TMS 602 and hot weather construction per Article 1.8 D of TMS 602.		
Application and measurement of prestressing force	ICC-SMSI	Continuous			Yes
Placement of grout is in compliance	ICC-SMSI	Continuous	TMS 602 Article 3.5		
Construction of mortar joints	ICC-SMSI	Periodic	Verify that mortar joints are placed in accordance with Article 3.3 B of TMS 602.		No

	CONCRE	IE SPEC	IAL INSPECTION (IBC 1705.3 & 1705.12.1)		
ITEM	REQUIRED QUALIFICATIONS	FREQUENCY	DETAILED INSTRUCTIONS	PERIODIC TEST OR INSPECTION FREQUENCY	CONC Infrequent
Reinforcing steel	ACI-CCI ICC-RCSI	Periodic	Verify prior to placing concrete that reinforcing is of specified type, grade and size; that it is free of oil, dirt and rust; that it is located and spaced properly; that hooks, bends, ties, stirrups and supplemental reinforcement are placed correctly; that lap lengths, stagger and offsets are provided; and that all mechanical connections are installed per the manufacturer's instructions and/or evaluation report.		
Welding of reinforcing steel	AWS-CWI	Periodic	Visually inspect all welds and also verify weldability of reinforcing steel based upon carbon equivalent and in accordance with AWS D1.4.		
Cast-in bolts & embeds	ACI-CCI ICC-RCSI	Periodic	Inspection of anchors or embeds cast in concrete is required when allowable loads have been increased or where strength design is used.		
Post-installed anchors or dowels	ACI-CCI ICC-RCSI	Periodic	All post-installed anchors/dowels shall be specially inspected as required by the approved ICC-ES report. Horizontally or upwardly inclined anchors that resist sustained tension loads require continuous inspection and approved installers.		
Use of required mix design	ACI-CCI ICC-RCSI	Periodic	Verify that all mixes used comply with the approved construction documents; ACI 318: Ch. 19, 26.4.3, 26.4.4; and IBC 1904.1, 1904.2, 1908.2, 1908.3.		
Concrete sampling for strength tests, slump, air content, and temperature	ACI-CFTT ACI-SIT	Continuous			
Concrete & shotcrete placement	ACI-CCI ICC-RCSI	Continuous			No
Curing temperature and techniques	ACI-CCI ICC-RCSI	Periodic	Verify that the ambient temperature for concrete is kept at > 50°F for at least 7 days after placement. High-early-strength concrete shall be kept at > 50°F for at least 3 days. Accelerated curing methods may be used (see ACI 318: 26.4.7-26.4.9). The ambient temperature for shotcrete shall be > 40°F for the same period of time as noted for concrete. Shotcrete shall be kept continuously moist for at least 24 hours after shotcreting. All concrete materials, reinforcement, forms, fillers, and ground shall be free from frost. In hot weather conditions ensure that appropriate measures are taken to avoid plastic shrinkage cracking and that the specified water/cement ratio is not exceeded.		
Strength verification	ACI-STT	Periodic	Verify that adequate strength has been achieved prior to the removal of shores and forms or the stressing of post-tensioned tendons.		
Formwork		Periodic	Verify that the forms are placed plumb and conform to the shapes, lines, and dimensions of the members as required by the approved construction documents.		

	V	VOOD SP	PECIAL INSPECTION (IBC 1705.5)		
ITEM	REQUIRED QUALIFICATIONS	FREQUENCY	DETAILED INSTRUCTIONS	PERIODIC TEST OR INSPECTION FREQUENCY	WOOD Infrequent
Fabricator Certification/Quality Control Procedures		Periodic	Inspect shop fabrication process and quality control procedures of wood structural elements and assemblies in accordance with Section 1704.2.5.		·
Material Grading		Periodic	Verify grade or certificate of inspection of sawn lumber.		
Connections		Periodic	Inspection of wood / wood connection of elements.		
Lateral Connections		Continuous	Inspection of lateral connections (e.g. hold downs and straps).		
Framing Details		Continuous	Verify that framing details comply with construction documents or approved submittals.		
Roof and Floor Diaphragm Systems			(IBC 1705.12.1 & 1705.13.2)		Yes
Member Size and Connection		Periodic	Verify thickness and grade of sheathing, size of framing members at panel edges, nail/staple diameters and length, and the number of fastener lines and fastener spacing per approved plans.		No
Field Gluing		Continuous	Inspection during field gluing of elements of the main wind force resisting system.		Yes
Field Fastening		Periodic	Inspection during field nailing, bolting, anchoring and other fastening of wood diaphragms where sheathing fastener spacing is 4" or less.		Yes
Collectors, Drag Struts and Boundary Elements		Periodic	Inspection of collectors, drag struts and boundary elements.		Yes
Vertical Wind-Force-Resisting Systems, including Walls			(IBC 1705.12.1 & 1705.13.2)		Yes
Member Size and Connection		Periodic	Verify thickness and grade of sheathing, size of framing members at panel edges, nail/staple diameters and length, and the number of fastener lines and fastener spacing per approved plans.		No
Field Fastening		Periodic	Inspection during field nailing, bolting, anchoring and other fastening of wood shear walls where sheathing fastener spacing is 4" or less.		Yes
Hold-downs		Periodic	Inspection of nailing, bolting, anchoring and other fastening of hold-downs.		Yes

STATEMENT OF SPECIAL INSPECTIONS

This Statement of Special Inspections is submitted as a condition for permit issuance in accordance with the Special Inspection and Structural Testing requirements of the Building Code. It includes a schedule of Special Inspection services applicable to this project as well as the name of the Special Inspection Coordinator and the identity of other approved agencies to be retained for conducting these inspections and tests. This Statement of Special Inspections encompass the following disciplines: Structural

The Special Inspection Coordinator shall keep records of all inspections and shall furnish inspection reports to the Building Official and the Registered Design Professional in Responsible Charge. Discovered discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Registered Design Professional in Responsible Charge. The Special Inspection program does not relieve the Contractor of his or her responsibilities.

The inspectors and testing agencies shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official, prior to

Interim reports shall be submitted to the Building Official and the Registered Design Professional in Responsible Charge. Interim Report Frequency: Within 48 hours of inspection, unless indicated otherwise.

A Final Report of Special Inspections documenting completion of all required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and Occupancy.

Job site safety and means and methods of construction are solely the responsibility of the Contractor.

The qualifications of all personnel performing Special Inspection and testing activities are subject to the approval of the Building Official. The credentials of all Inspectors and testing technicians shall be provided if requested.

Key for Minimum Qualifications of Inspection Agents:

When the Registered Design Professional in Responsible Charge deems it appropriate that the individual performing a stipulated test or inspection have a specific certification or license as indicated below, such designation shall appear below the Agency Number on the Schedule.

PE/SE Structural Engineer – a licensed SE or PE specializing in the design of building structures PE/GE Geotechnical Engineer – a licensed PE specializing in soil mechanics and foundations

EIT Engineer-In-Training – a graduate engineer who has passed the Fundamentals of Engineering examination

American Concrete Institute (ACI) Certification ACI-CFTT Concrete Field Testing Technician – Grade 1

ACI-CCI Concrete Construction Inspector ACI-LTT Laboratory Testing Technician – Grade 1 & 2

ACI-STT Strength Testing Technician

American Welding Society (AWS) Certification

AWS-CWICertified Welding Inspector AWS/AISC-SSICertified Structural Steel Inspector

American Society of Non-Destructive Testing (ASNT) Certification ASNT Non-Destructive Testing Technician – Level II or III

International Code Council (ICC) Certification ICC-SMSIStructural Masonry Special Inspector

ICC-SWSI Structural Steel and Welding Special Inspector ICC-SFSI Spray-Applied Fireproofing Special Inspector ICC-PCSI Prestressed Concrete Special Inspector

ICC-RCSI Reinforced Concrete Special Inspector National Institute for Certification in Engineering Technologies (NICET)

NICET-CT Concrete Technician – Levels I, II, III & IV NICET-ST Soils Technician - Levels I, II, III & IV

NICET-GET Geotechnical Engineering Technician - Levels I, II, III & IV

Exterior Design Institute (EDI) Certification EDI-EIFS EIFS Third Party Inspector

Quality Assurance Plans

Quality Assurance for Seismic Resistance Seismic Design Category: Quality Assurance Plan Required: Yes

Quality Assurance for Wind Requirements Basic Wind Speed V_{asd} (3 second gust): 90 mph

Quality Assurance Plan Required: Yes

Basic Wind Speed Vult (3 second gust): 115 mph Wind Exposure Category: C

Description of wind force resisting system and designated wind resisting components: wall connections to roof and floor diaphragms and framing

- roof and floor diaphragm systems, including collectors, drag struts and boundary elements vertical wind-force-resisting systems, including braced frames, moment frames and shear walls
- wind-force-resisting system connections to the foundation.

Each contractor responsible for the construction or fabrication of a system or component designated above must submit a Statement of Responsibility.

Prepared by:

Statement of Responsibility

EOR NAME / Signature

Owner's Authorization:

Building Official's Acceptance:

SCHEDULE OF INSPECTION AND TESTING AGENCIES						
SPECIAL INSPECTION AGENCIES	FIRM	ADDRESS, TELEPHONE, E-MAIL				
Special Inspection Coordinator	TBD					
Inspector	TBD					
Inspector	TBD					
Testing Agency	TBD					
Testing Agency	TBD					
Continuous	TBD					
Other	TDD					

The following structural observations will be made to visually observe representative locations of structural systems, details, and load paths for general conformance to the approved construction documents. The Contractor shall notify the Engineer a minimum of 5 working days before work is ready to be observed to allow scheduling of site visit.

- A. Drilled piers: Observation of reinforcement and concrete placement near the start of operation.
- B. Grade Beams: Observation of layout and reinforcement placement near the start of operation. C. Foundation Walls: Observation of layout and reinforcement placement near the start of operation.
- A. Walls: Observation of reinforcement placement near the start of operation.
- B. Columns: Observation of reinforcement placement near the start of operation. C. Elevated Floors: Observation of layout and reinforcement placement prior to the first slab placement.
- STEEL FRAMING A. Braced Frames: Observation of connections near midpoint of steel erection and prior to cover by finishes.
- WOOD FRAMING A. Shear Walls: Observation of framing members, hold downs, straps, sheathing attachment, and connection details near the start of construction and prior to cover by finishes.
- B. Collector Elements: Drag and chord members designated on the drawings prior to cover by finishes.



REVIEWED

FOR

CODE

COMPLIANCE

04/01/2025

ONSULTING ENGINEER Boulder, CO 80302 303.444.1951 www.jvajva.com Boulder ● Fort Collins ● Winter Park Glenwood Springs ● Denver JVA #22025

NOTICE: DUTY OF COOPERATION Release of these plans contemplates further cooperation among the owner, his contractor and the architect. Design and construction are complex.
Although the architect and his consultants have performed their services with due care and diligence, they cannot guarantee perfection. Communication is imperfect and every contingency cannot be anticipated. Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to the architect. Failure to notify the architect compounds misunderstanding and increases construction costs. A failure to cooperate by a simple notice to the architect shall relieve the architect from responsibility for the consent of the architect are unauthorized and shall relieve the architect of responsibility for all consequences arriving out of such changes.

All design, documents and data prepared by Eric Smith Associates, P.C. as instruments of service shall remain property of Eric Smith Associates, P.C. and shall not be copied, changed or disclosed in any form whatsoever without first obtaining the express written consent of Eric Smith Associates, P.C. Eric Smith Associates, P.C.

	DELUCION	7.0					
REVISIONS							
No.	Description	Date					

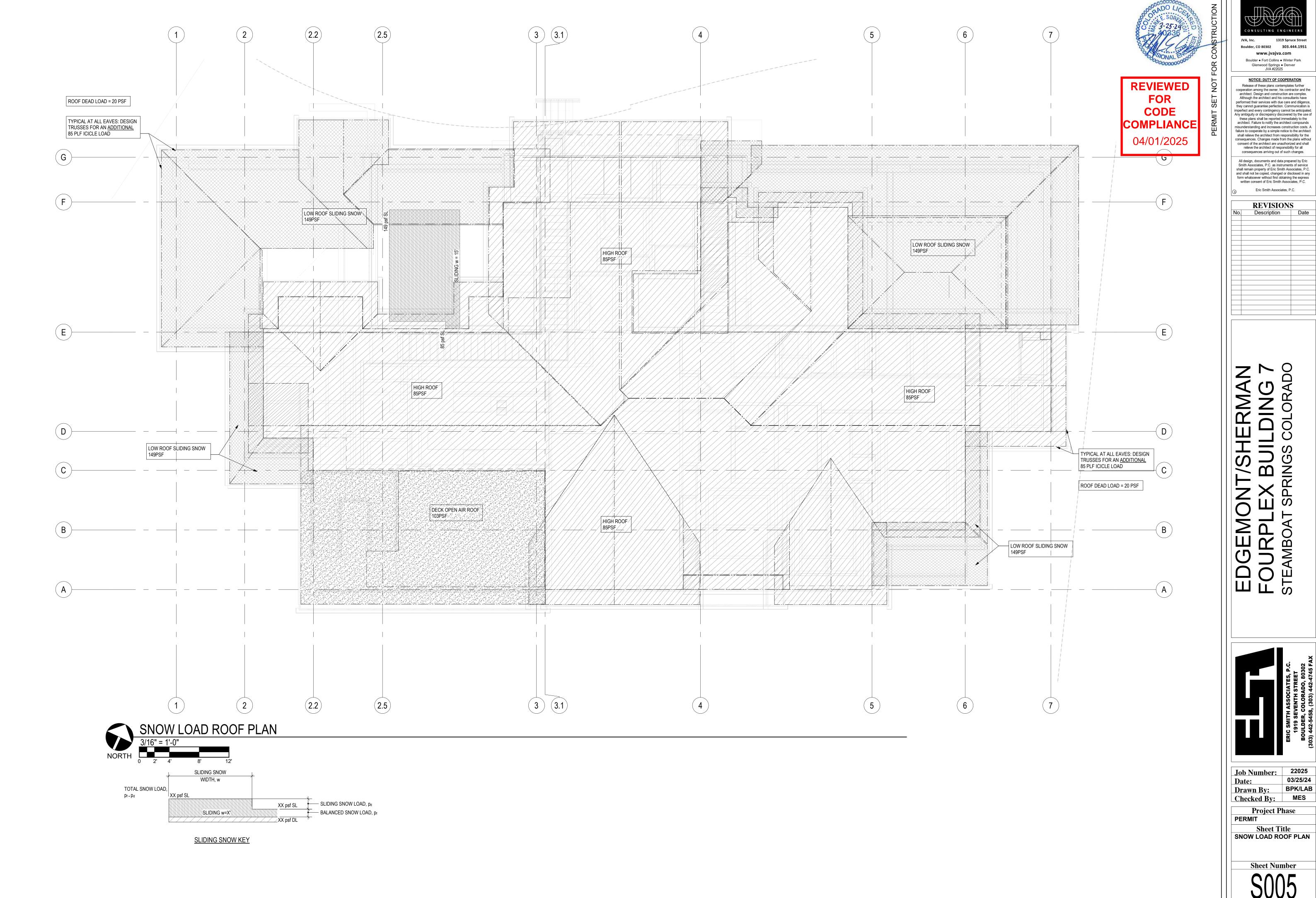


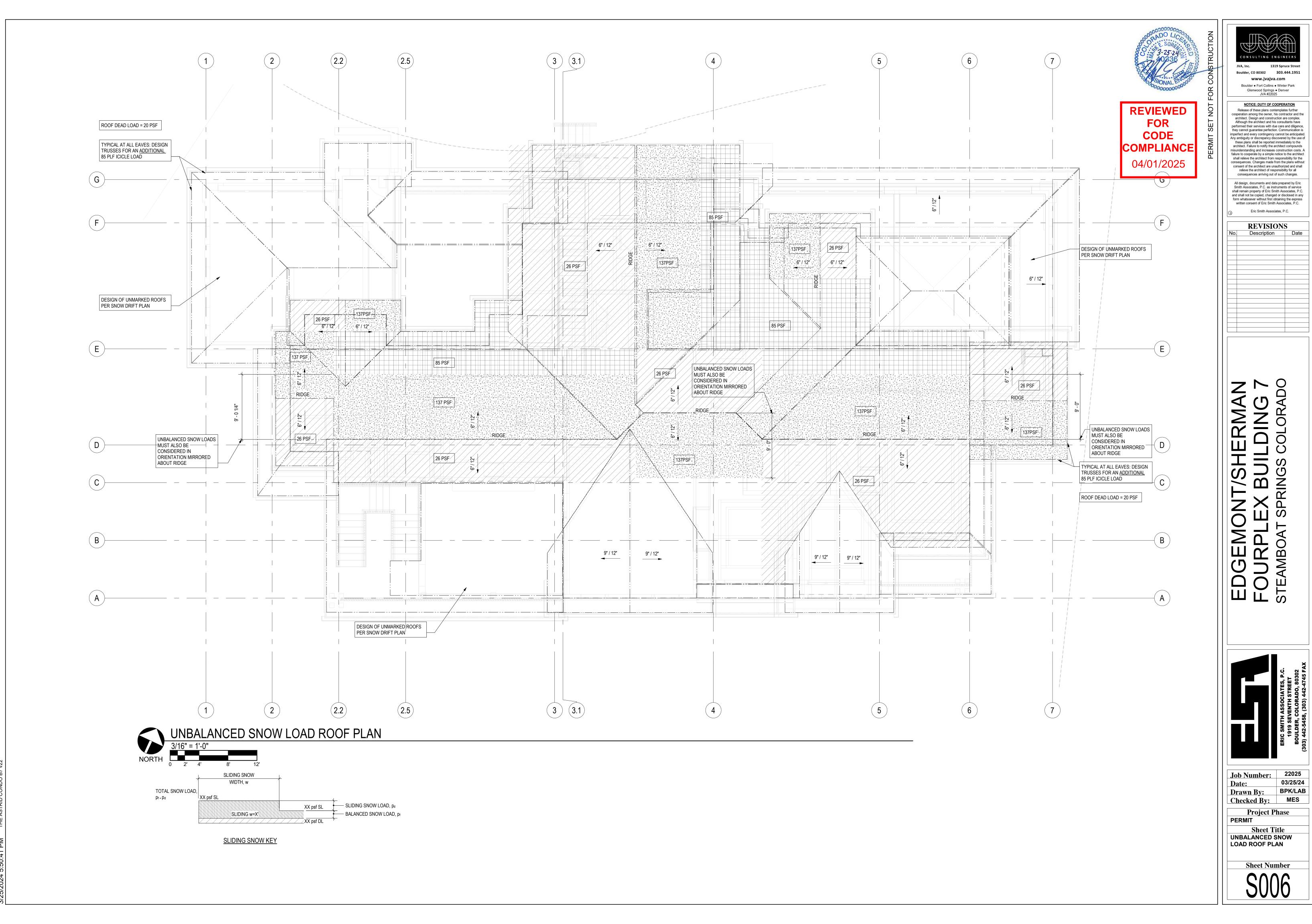
ob Number:	22025
Date:	03/25/2
Drawn By:	BPK/LA
Checked By:	MES

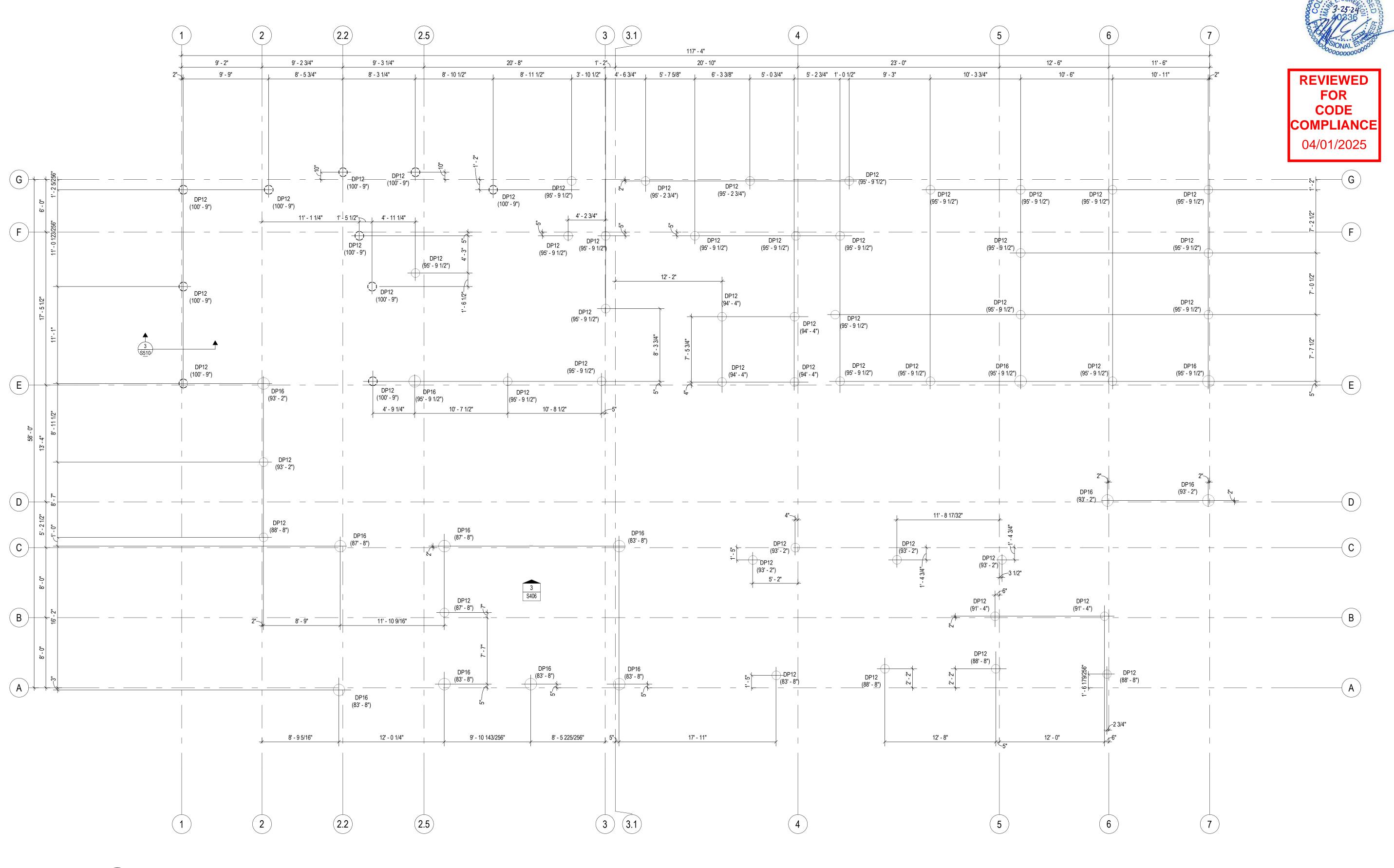
Project Phase

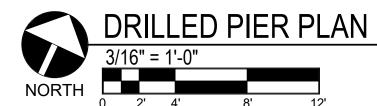
PERMIT

Sheet Title IBC STATEMENT OF SPECIAL INSPECTION









• USGS ELEVATION 7038.875' = 100'-0, TOP OF LOWER LEVEL SLAB NOTED THUS:

XXX'-X

DRILLED PIER NOTES:
12"Ø (DP12), AND 16"Ø (DP16) REINFORCED CONCRETE PIERS AS NOTED ON PLAN; SEE 4/S500 FOR REINFORCING, PIER LENGTH AND BEDROCK PENETRATION INFO; UNLESS NOTED OTHERWISE CENTER PIERS UNDER FOUNDATION WALLS, PILASTERS, PEDESTALS, WALL CORNERS AND BUILDING COLUMNS; TOP OF PIER ELEVATION = (XXX'-X) AT PERIMETER WALLS/PILASTERS AND (XXX'-X) AT ISOLATED COLUMNS UNLESS NOTED (XXX'-X) ON PLAN;

PIER SCHEDULE								
MARK	DIAMETER	PENETRATION INTO BEDROCK (MINIMUM)	MINIMUM PIER LENGTH	REINFORCING	TIES			
DP12	1' - 0"	6' - 0"	15' - 0"	(3) #6	#4@12"			
DP16	1' - 4"	6' - 0"	15' - 0"	(5) #6	#4@12"			

NSULTING ENGINEER Boulder, CO 80302 303.444.1951

www.jvajva.com Boulder ● Fort Collins ● Winter Park Glenwood Springs

◆ Denver

JVA #22025

NOTICE: DUTY OF COOPERATION Release of these plans contemplates further cooperation among the owner, his contractor and the architect. Design and construction are complex.
Although the architect and his consultants have performed their services with due care and diligence, they cannot guarantee perfection. Communication is imperfect and every contingency cannot be anticipated. Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to the architect. Failure to notify the architect compounds misunderstanding and increases construction costs. A failure to cooperate by a simple notice to the architect shall relieve the architect from responsibility for the consequences. Changes made from the plans without consent of the architect are unauthorized and shall relieve the architect of responsibility for all consequences arriving out of such changes.

All design, documents and data prepared by Eric Smith Associates, P.C. as instruments of service shall remain property of Eric Smith Associates, P.C. and shall not be copied, changed or disclosed in any form whatsoever without first obtaining the express written consent of Eric Smith Associates, P.C.

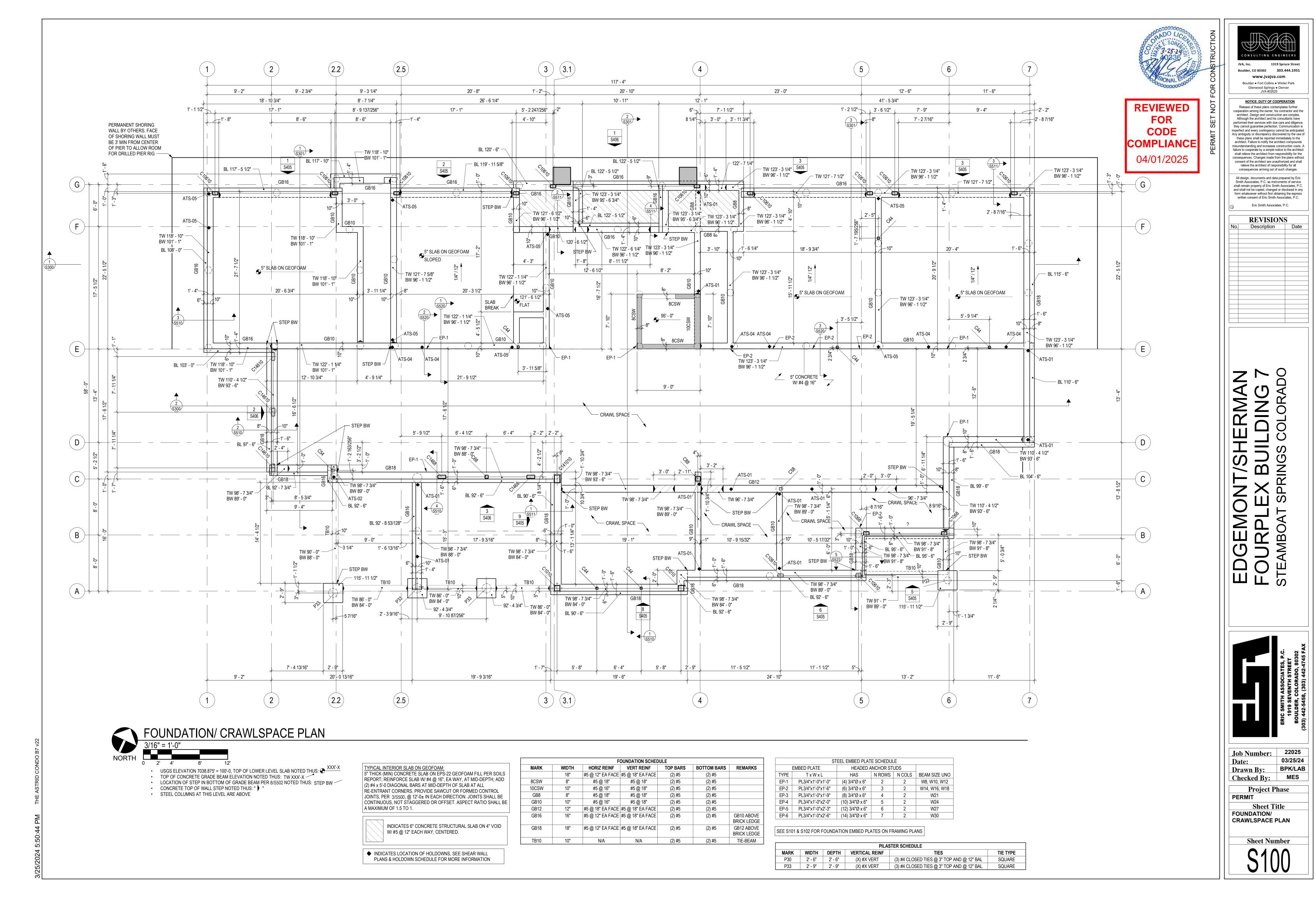
Eric Smith Associates, P.C. **REVISIONS** Description Date

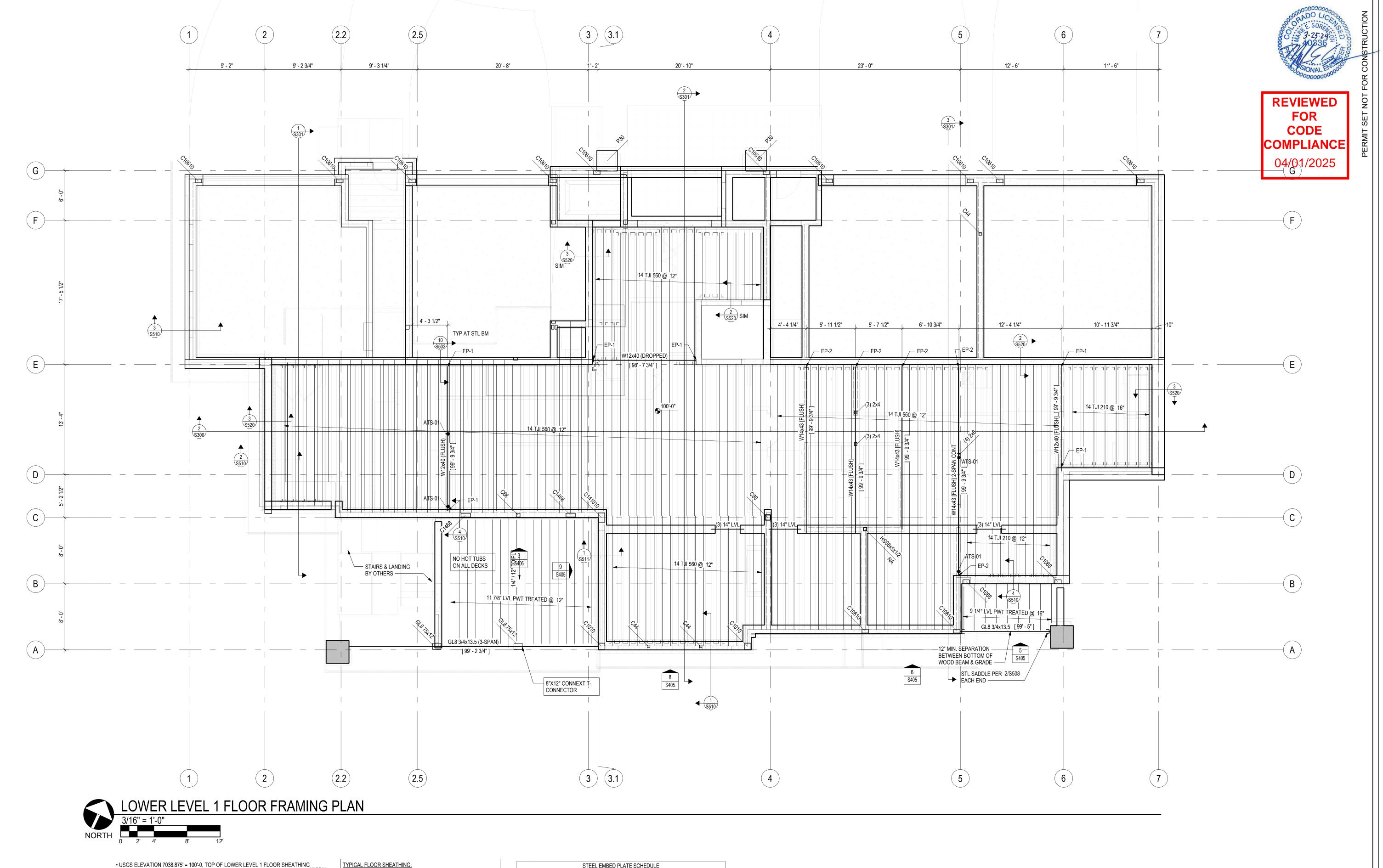
JGEMON 1/C.
OURPLEX BUIL
OURPLEX BUIL
OURT SPRINGS C

22025 Job Number: 03/25/24 Date: BPK/LAB **Drawn By: Checked By:**

Project Phase

PERMIT **Sheet Title** DRILLED PIER PLAN





USGS ELEVATION 7038.875' = 100'-0, TOP OF LOWER LEVEL 1 FLOOR SHEATHING
 TOP OF LOWER LEVEL 1 FLOOR SHEATHING = 100'-0 UNLESS NOTED THUS:
 TOP OF PLATE HEIGHT NOTED THUS: TOP PL EL = XXX'-X

TOP OF PLATE HEIGHT NOTED THUS: TOP PL EL = XXX'-X
ALL BEAMS ARE FLUSH, UNLESS NOTED OTHERWISE ON PLAN
ALL HEADERS ARE DROPPED, UNLESS NOTED OTHERWISE ON PLAN

• ALL NEADERS ARE DROPPED, UNLESS NOTED OTHERWISE ON PLAN
• ALL COLUMNS ON THIS PLAN ARE ABOVE UNLESS MARKED THUS:
• SEE SYMBOLS KEY ON SHEET S001 FOR BUILDING COLUMN DESIGNATIONS

TYPICAL FLOOR SHEATHING:
3/4" STURD-I-FLOOR, APA RATED 24" O.C. TONGUE & GROOVE
SHEATHING GLUED AND NAILED WITH 8d NAILS (0.113"Ø x 2 3/8")
@ 6" ALONG PANEL EDGES AND @ 12" ALONG INTERMEDIATE
FRAMING MEMBERS. LAY PANELS PERPENDICULAR TO FRAMING
MEMBERS AND STAGGER PANEL JOINTS.

TYPICAL EXTERIOR WOOD FRAMED WALLS (UNO):

2x6 STUDS @ 16" SHEATHED WITH 7/16" APA 24/16, EXPOSURE 1
ON EXTERIOR FACE; NAIL WALL SHEATHING WITH 8d (0.113"Ø x 2
3/8") @ 6" AT PANEL EDGES AND @ 12" IN FIELD OF PANEL;
BLOCK AND NAIL ALL EDGES BETWEEN STUDS. IF GUN NAILS
ARE USED FOR NAILING, NAILS MUST BE AT A MINIMUM THE
DIAMETER AND LENGTH NOTED ABOVE.

STEEL EMBED PLATE SCHEDULE								
	EMBED PLATE	HEADED ANCHOR STUDS						
TYPE	TxWxL	HAS	N ROWS	N COLS	BEAM SIZE UNO			
EP-1	PL3/4"x1'-0"x1'-0"	(4) 3/4"Ø x 6"	2	2	W8, W10, W12			
EP-2	PL3/4"x1'-0"x1'-6"	(6) 3/4"Ø x 6"	3	2	W14, W16, W18			
EP-3	PL3/4"x1'-0"x1'-9"	(8) 3/4"Ø x 6"	4	2	W21			
EP-4	PL3/4"x1'-0"x2'-0"	(10) 3/4"Ø x 6"	5	2	W24			
EP-5	PL3/4"x1'-0"x2'-3"	(12) 3/4"Ø x 6"	6	2	W27			
EP-6	PL3/4"x1'-0"x2'-6"	(14) 3/4"Ø x 6"	7	2	W30			

SEE S100 & S102 FOR FOUNDATION EMBED PLATES ON FRAMING PLANS

CONSULTING ENGINEERS

JVA, Inc. 1319 Spruce Str

JVA, Inc. 1319 Spruce Street

Boulder, CO 80302 303.444.1951

www.jvajva.com

Boulder • Fort Collins • Winter Park

Glenwood Springs • Denver

JVA #22025

NOTICE: DUTY OF COOPERATION

Release of these plans contemplates further cooperation among the owner, his contractor and the architect. Design and construction are complex. Although the architect and his consultants have performed their services with due care and diligence, they cannot guarantee perfection. Communication is imperfect and every contingency cannot be anticipated. Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to the architect. Failure to notify the architect compounds misunderstanding and increases construction costs. A failure to cooperate by a simple notice to the architect shall relieve the architect are unauthorized and shall relieve the architect are unauthorized and shall relieve the architect of responsibility for all consequences arriving out of such changes.

consequences arriving out of such changes.

All design, documents and data prepared by Eric Smith Associates, P.C. as instruments of service shall remain property of Eric Smith Associates, P.C. and shall not be copied, changed or disclosed in any form whatsoever without first obtaining the express written consent of Eric Smith Associates, P.C.

REVISIONS						
No.	Description	Date				
	<u>-</u>					

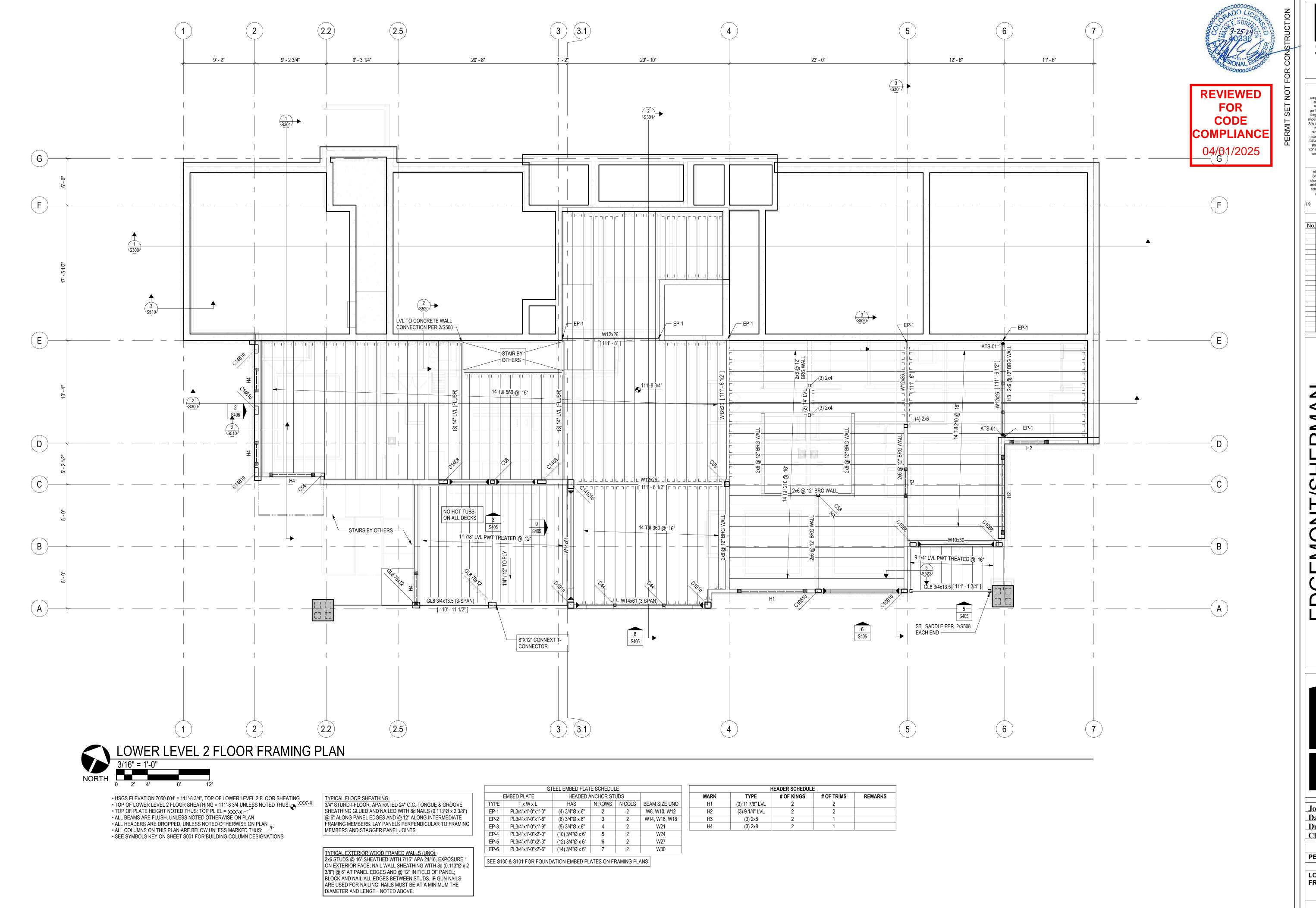
EDGEMONT/SHERMAN FOURPLEX BUILDING 7



Job Number: 22025
Date: 03/25/24
Drawn By: BPK/LAB
Checked By: MES

Project Phase PERMIT

Sheet Title
LOWER LEVEL 1 FLOOR
FRAMING PLAN



JVA, Inc. 1319 Spruce Street
Boulder, CO 80302 303.444.1951

JVA, Inc. 1319 Spruce Stree

Boulder, CO 80302 303.444.195:

www.jvajva.com

Boulder • Fort Collins • Winter Park
Glenwood Springs • Denver
JVA #22025

NOTICE: DUTY OF COOPERATION

Release of these plans contemplates further cooperation among the owner, his contractor and the architect. Design and construction are complex. Although the architect and his consultants have performed their services with due care and diligence, they cannot guarantee perfection. Communication is imperfect and every contingency cannot be anticipated. Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to the architect. Failure to notify the architect compounds misunderstanding and increases construction costs. A failure to cooperate by a simple notice to the architect shall relieve the architect from responsibility for the consequences. Changes made from the plans without consent of the architect are unauthorized and shall relieve the architect of responsibility for all consequences arriving out of such changes.

All design, documents and data prepared by Eric Smith Associates, P.C. as instruments of service shall remain property of Eric Smith Associates, P.C. and shall not be copied, changed or disclosed in any form whatsoever without first obtaining the express written consent of Eric Smith Associates, P.C.

REVISIONS					
No.	Description	Date			

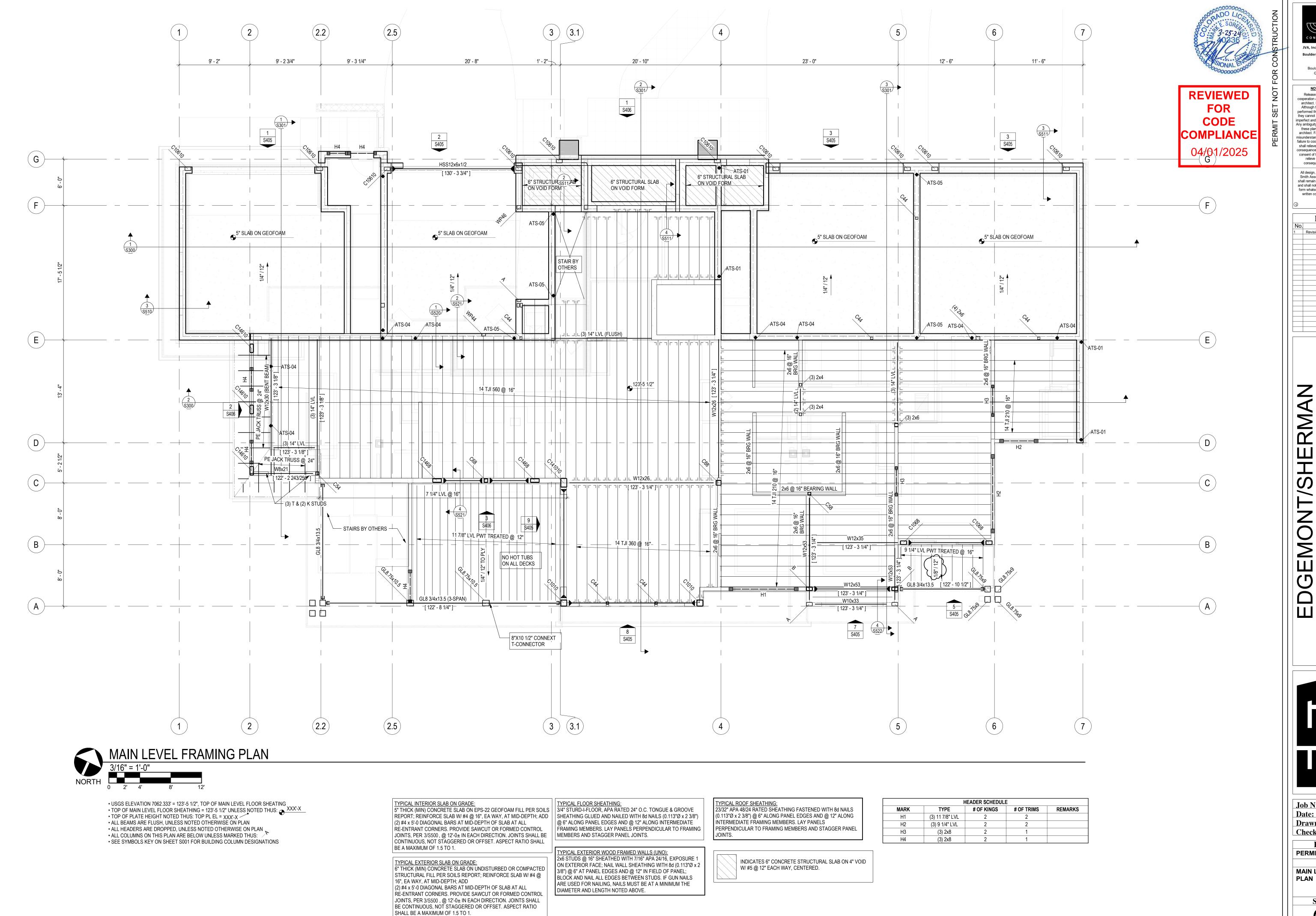
EDGEMONT/SHERMAN FOURPLEX BUILDING



Job Number: 22025
Date: 03/25/24
Drawn By: BPK/LAB
Checked By: MES

Project Phase PERMIT

Sheet Title LOWER LEVEL 2 FLOOR FRAMING PLAN



CONSULTING ENGINEERS

JVA, Inc. 1319 Spruce Str

JVA, Inc. 1319 Spruce Street

Boulder, CO 80302 303.444.1951

www.jvajva.com

Boulder • Fort Collins • Winter Park
Glenwood Springs • Denver

JVA #22025

NOTICE: DUTY OF COOPERATION

Release of these plans contemplates further cooperation among the owner, his contractor and the architect. Design and construction are complex. Although the architect and his consultants have performed their services with due care and diligence, they cannot guarantee perfection. Communication is imperfect and every contingency cannot be anticipated. Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to the architect. Failure to notify the architect compounds misunderstanding and increases construction costs. A failure to cooperate by a simple notice to the architect shall relieve the architect from responsibility for the consequences. Changes made from the plans without consent of the architect are unauthorized and shall relieve the architect of responsibility for all consequences arriving out of such changes.

consequences arriving out of such changes.

All design, documents and data prepared by Eric Smith Associates, P.C. as instruments of service shall remain property of Eric Smith Associates, P.C. and shall not be copied, changed or disclosed in any form whatsoever without first obtaining the express written consent of Eric Smith Associates, P.C.

REVISIONS

No. Description Date

1 Revision 1 Date 1

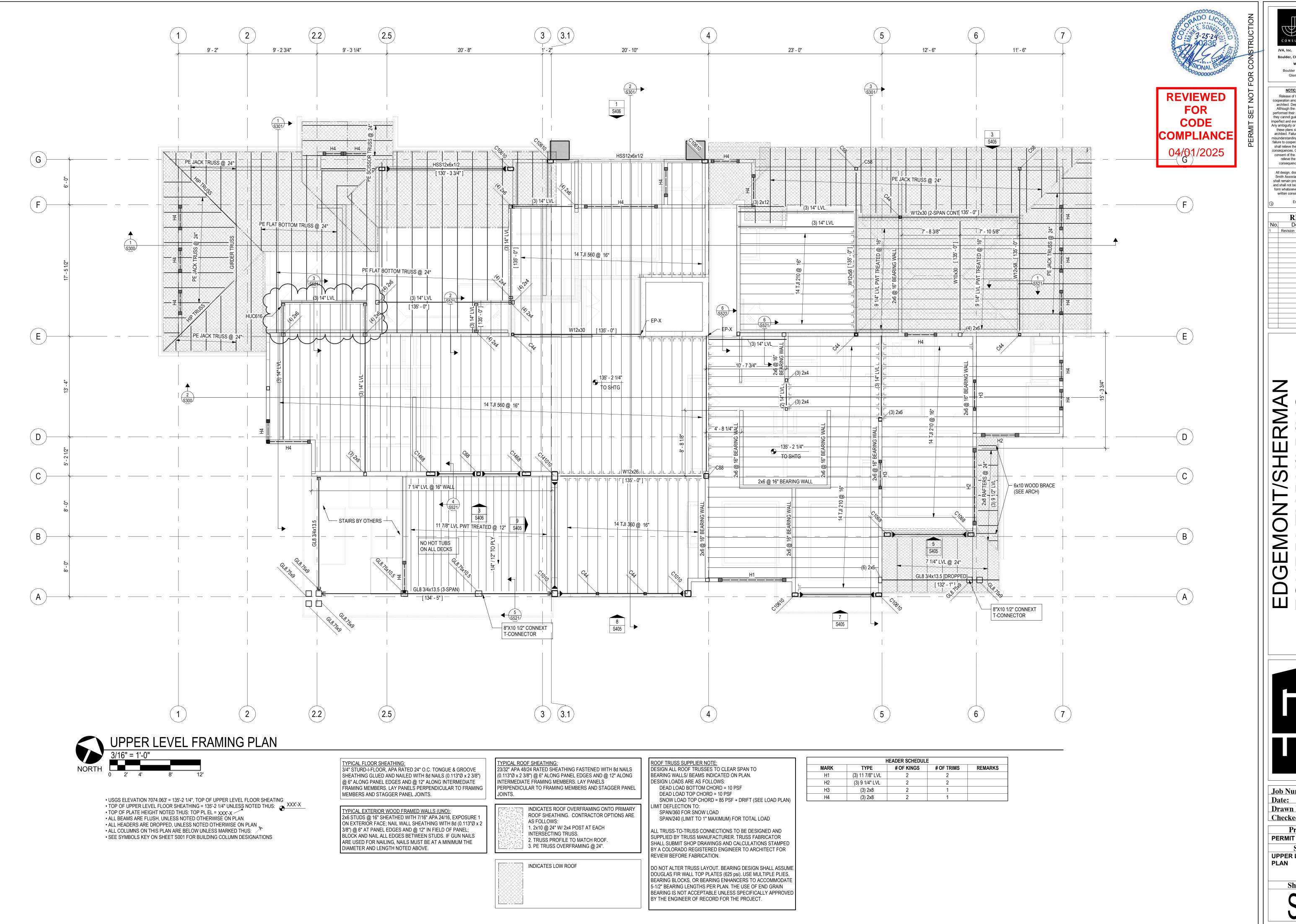
DGEMONT/SHERMAN DURPLEX BUILDING 7

ERIC SMITH ASSOCIATES, P.C.

Job Number: 22025
Date: 03/25/24
Drawn By: BPK/LAB
Checked By: MES

Project Phase

Sheet Title
MAIN LEVEL FRAMING



ONSULTING ENGINEER Boulder, CO 80302 303.444.1951

www.jvajva.com Boulder ● Fort Collins ● Winter Park Glenwood Springs ● Denver JVA #22025

NOTICE: DUTY OF COOPERATION Release of these plans contemplates further cooperation among the owner, his contractor and the architect. Design and construction are complex. Although the architect and his consultants have performed their services with due care and diligence, they cannot guarantee perfection. Communication is imperfect and every contingency cannot be anticipated.
Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to the architect. Failure to notify the architect compounds misunderstanding and increases construction costs. A failure to cooperate by a simple notice to the architect shall relieve the architect from responsibility for the consequences. Changes made from the plans without consent of the architect are unauthorized and shall relieve the architect of responsibility for all consequences arriving out of such changes.

All design, documents and data prepared by Eric Smith Associates, P.C. as instruments of service shall remain property of Eric Smith Associates, P.C. and shall not be copied, changed or disclosed in any form whatsoever without first obtaining the express written consent of Eric Smith Associates, P.C.

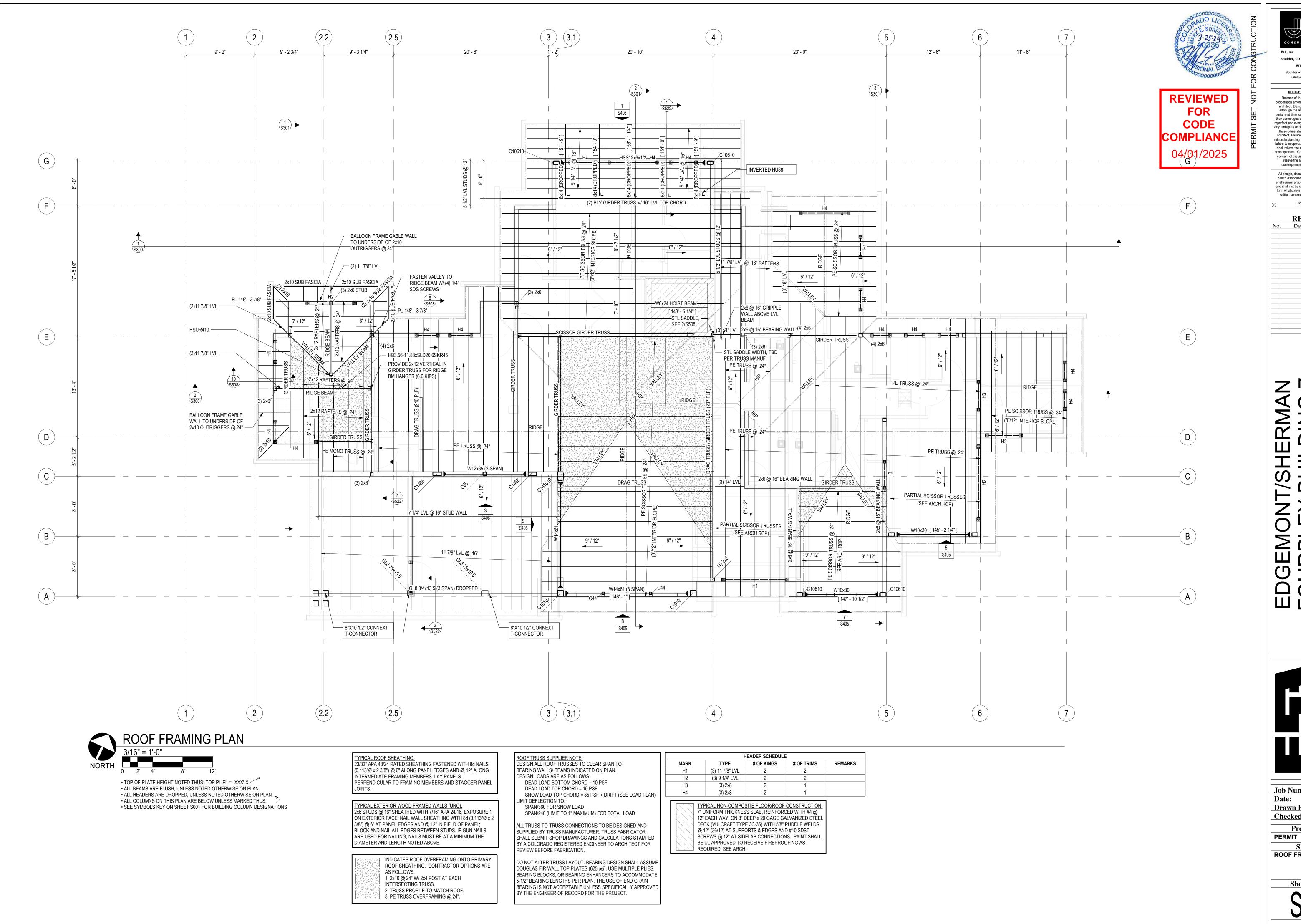
Eric Smith Associates, P.C. **REVISIONS** Description Date

22025 Job Number: 03/25/24 **BPK/LAB Drawn By:** Checked By:

Project Phase

Sheet Title

UPPER LEVEL FRAMING



CONSULTING ENGINEER

JVA, Inc. 1319 Spruce St

JVA, Inc. 1319 Spruce Street

Boulder, CO 80302 303.444.1951

www.jvajva.com

Boulder • Fort Collins • Winter Park
Glenwood Springs • Denver

JVA #22025

NOTICE: DUTY OF COOPERATION

Release of these plans contemplates further cooperation among the owner, his contractor and the architect. Design and construction are complex. Although the architect and his consultants have performed their services with due care and diligence, they cannot guarantee perfection. Communication is imperfect and every contingency cannot be anticipated. Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to the architect. Failure to notify the architect compounds misunderstanding and increases construction costs. A failure to cooperate by a simple notice to the architect shall relieve the architect from responsibility for the consequences. Changes made from the plans without consent of the architect of responsibility for all consequences arriving out of such changes.

consequences arriving out of such changes.

All design, documents and data prepared by Eric Smith Associates, P.C. as instruments of service shall remain property of Eric Smith Associates, P.C. and shall not be copied, changed or disclosed in any form whatsoever without first obtaining the express written consent of Eric Smith Associates, P.C.

shall not be copied, changed or disclosed in any m whatsoever without first obtaining the express written consent of Eric Smith Associates, P.C.

Eric Smith Associates, P.C.

REVISIONS

Description

Date

REVISIONS

No. Description Date

EMONT/SHERMAN
PLEX BUILDING 7

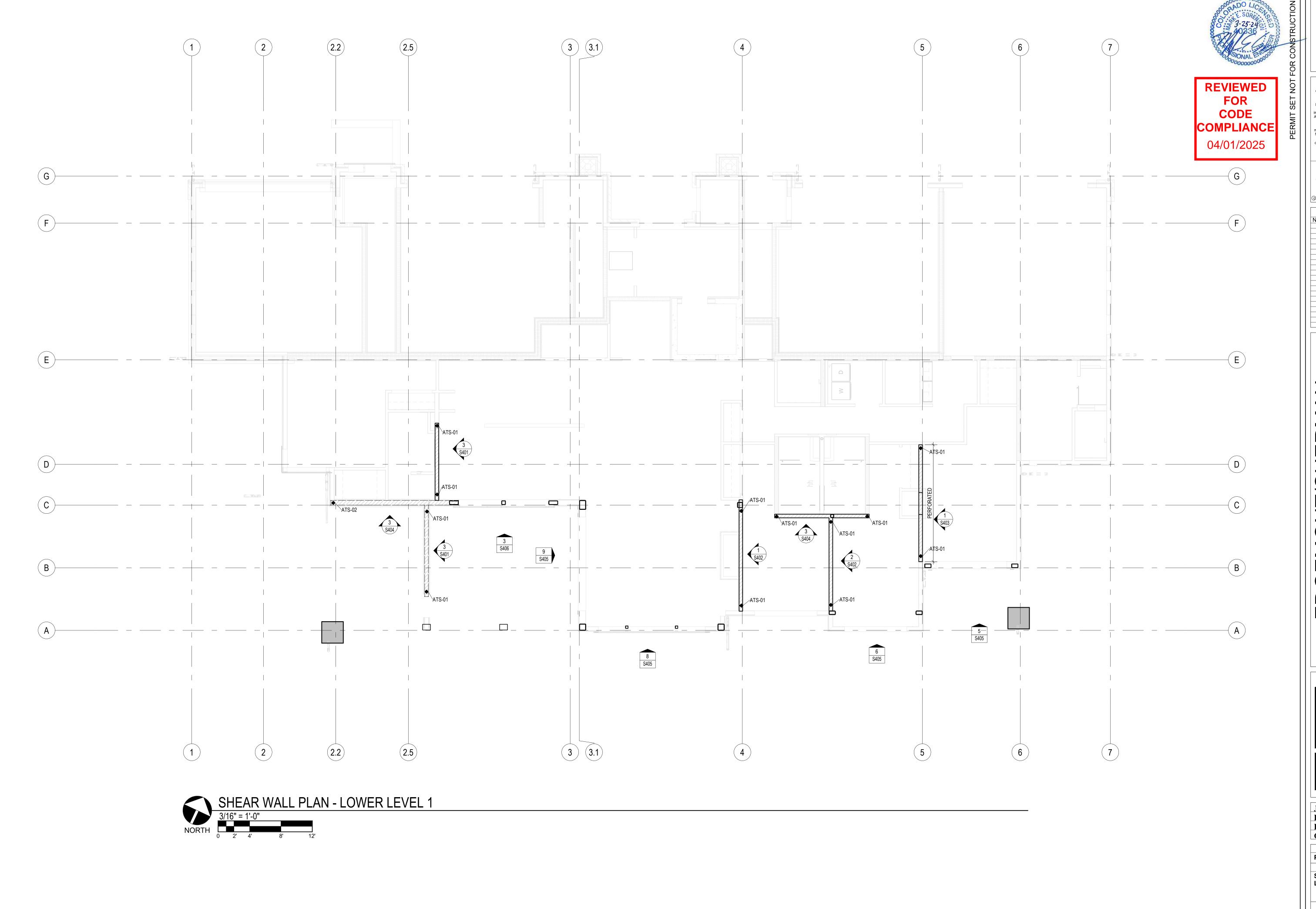
SIC SMITH ASSOCIATES, P.C.

Job Number: 22025
Date: 03/25/24
Drawn By: BPK/LAB
Checked By: MES

Project Phase

ERMIT
Sheet Title

Sheet Title
ROOF FRAMING PLAN



CONSULTING ENGINEERS

JVA, Inc. 1319 Spruce Street

JVA, Inc. 1319 Spruce Street

Boulder, CO 80302 303.444.1951

www.jvajva.com

Boulder • Fort Collins • Winter Park
Glenwood Springs • Denver

JVA #22025

NOTICE: DUTY OF COOPERATION

Release of these plans contemplates further cooperation among the owner, his contractor and the architect. Design and construction are complex. Although the architect and his consultants have performed their services with due care and diligence, they cannot guarantee perfection. Communication is imperfect and every contingency cannot be anticipated. Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to the architect. Failure to notify the architect compounds misunderstanding and increases construction costs. A failure to cooperate by a simple notice to the architect shall relieve the architect from responsibility for the consequences. Changes made from the plans without consent of the architect are unauthorized and shall relieve the architect of responsibility for all consequences arriving out of such changes.

All design, documents and data prepared by Eric Smith Associates, P.C. as instruments of service shall remain property of Eric Smith Associates, P.C. and shall not be copied, changed or disclosed in any form whatsoever without first obtaining the express written consent of Eric Smith Associates, P.C.

REVISIONS
No. Description Date

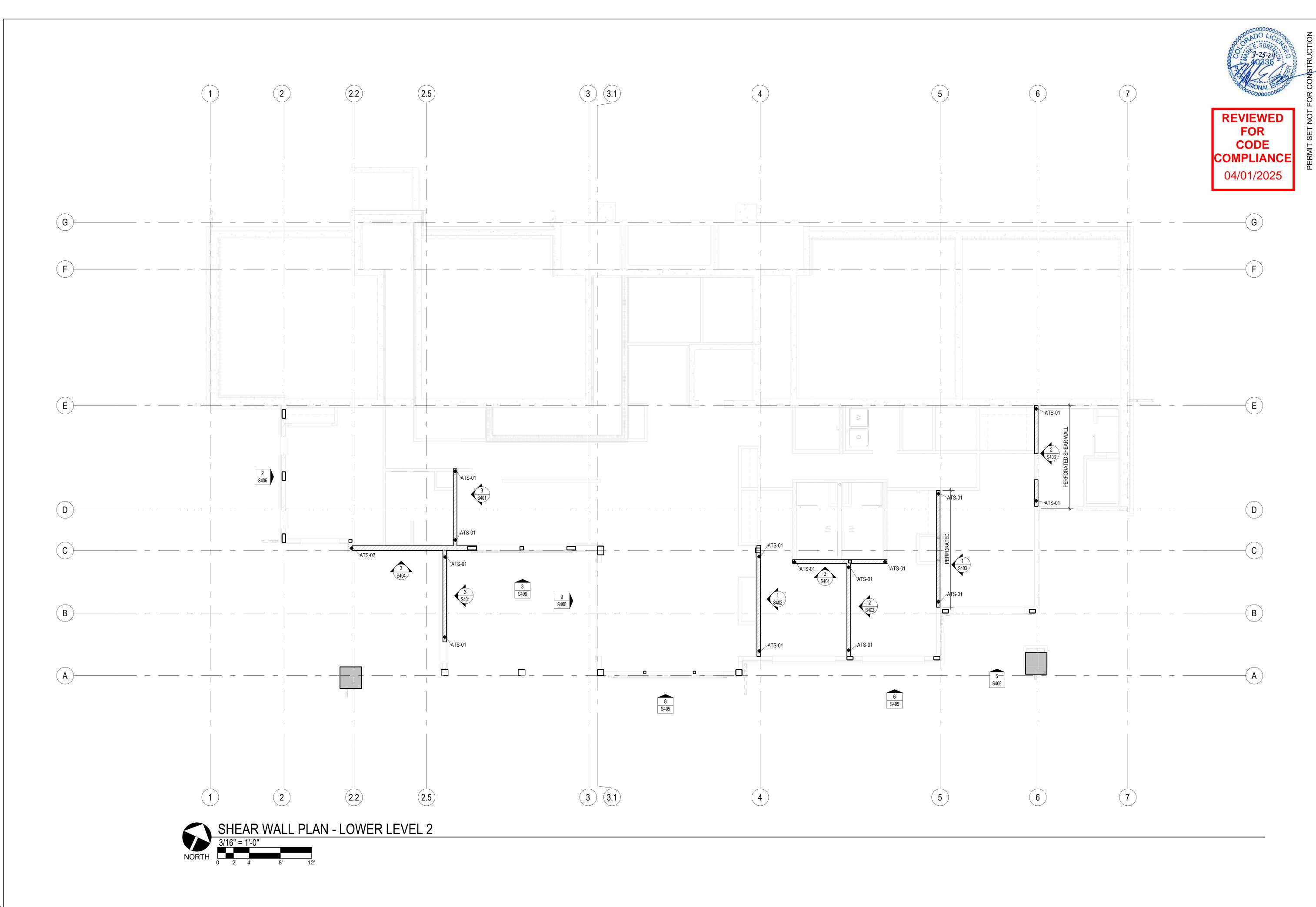
EDGEMONT/SHERMAN
FOURPLEX BUILDING 7
STEAMBOAT SPRINGS COLORADO



Job Number: 22025
Date: 03/25/24
Drawn By: BPK/LAB
Checked By: MES

Project Phase PERMIT

Sheet Title SHEAR WALL PLAN -LOWER LEVEL 1





Boulder, CO 80302 303.444.1951 www.jvajva.com Boulder ● Fort Collins ● Winter Park Glenwood Springs ● Denver JVA #22025

NOTICE: DUTY OF COOPERATION NOTICE: DUTY OF COOPERATION

Release of these plans contemplates further cooperation among the owner, his contractor and the architect. Design and construction are complex. Although the architect and his consultants have performed their services with due care and diligence, they cannot guarantee perfection. Communication is imperfect and every contingency cannot be anticipated. Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to the architect. Failure to notify the architect compounds misunderstanding and increases construction costs. A failure to cooperate by a simple notice to the architect shall relieve the architect from responsibility for the consequences. Changes made from the plans without consent of the architect are unauthorized and shall relieve the architect of responsibility for all consequences arriving out of such changes.

All design, documents and data prepared by Eric Smith Associates, P.C. as instruments of service shall remain property of Eric Smith Associates, P.C. and shall not be copied, changed or disclosed in any form whatsoever without first obtaining the express written consent of Eric Smith Associates, P.C.

Eric Smith Associates, P.C.

REVISIONS No. Description Date

EDGEMONT/SHE FOURPLEX BUILI STEAMBOAT SPRINGS C

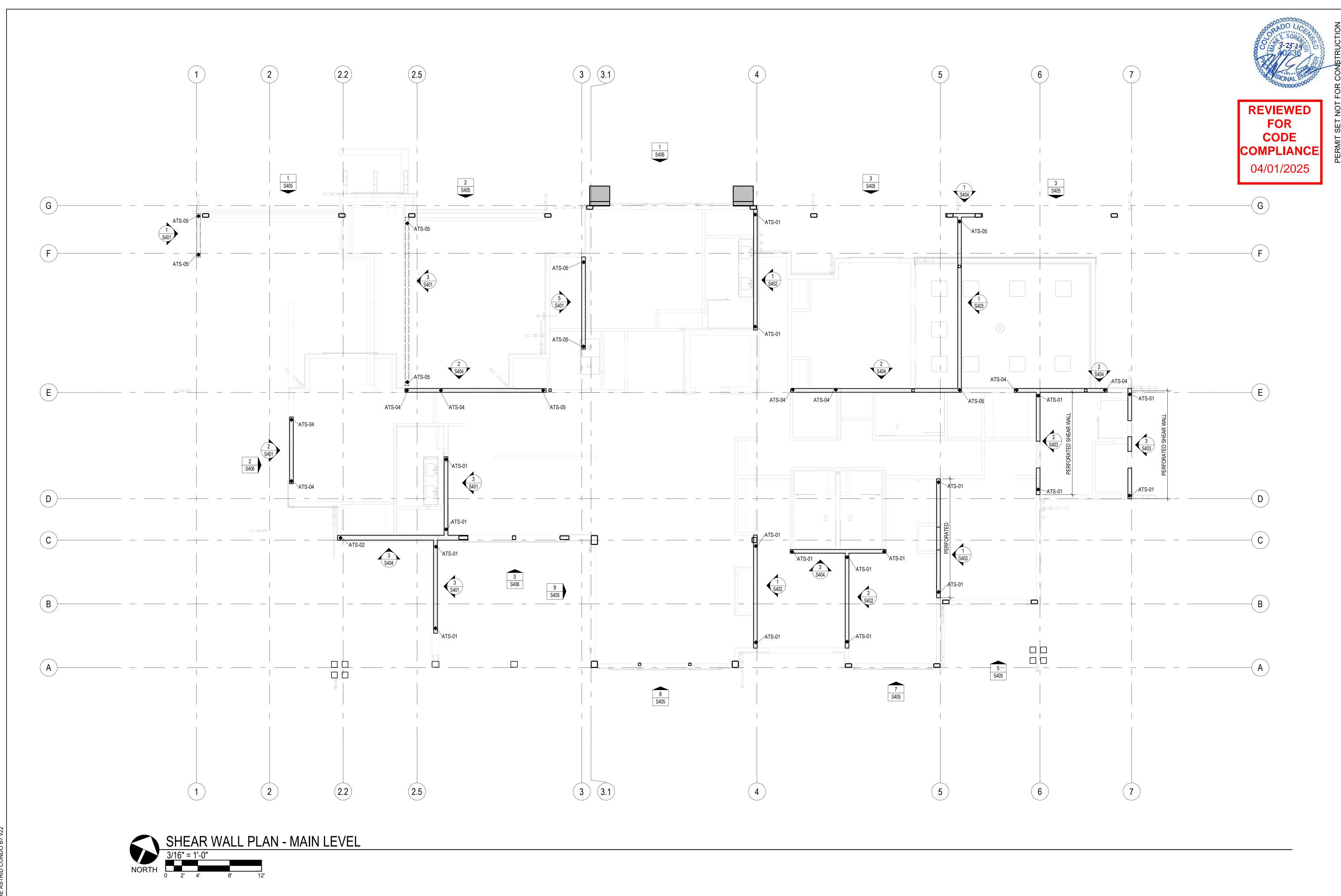


 Job Number:
 22025

 Date:
 03/25/24
 Drawn By: BPK/LAB Checked By:

Project Phase PERMIT

Sheet Title SHEAR WALL PLAN -LOWER LEVEL 2



CONSULTING ENGINEERS

JVA, Inc. 1319 Spruce Str

JVA, Inc. 1319 Spruce Street

Boulder, CO 80302 303.444.1951

www.jvajva.com

Boulder • Fort Collins • Winter Park

Glenwood Springs • Denver

JVA #22025

NOTICE: DUTY OF COOPERATION

Release of these plans contemplates further cooperation among the owner, his contractor and the architect. Design and construction are complex. Although the architect and his consultants have performed their services with due care and diligence, they cannot guarantee perfection. Communication is imperfect and every contingency cannot be anticipated. Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to the architect. Failure to notify the architect compounds misunderstanding and increases construction costs. A failure to cooperate by a simple notice to the architect shall relieve the architect from responsibility for the consequences. Changes made from the plans without consent of the architect are unauthorized and shall relieve the architect of responsibility for all consequences arriving out of such changes.

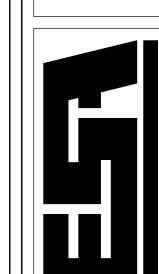
consequences arriving out of such changes.

All design, documents and data prepared by Eric Smith Associates, P.C. as instruments of service shall remain property of Eric Smith Associates, P.C. and shall not be copied, changed or disclosed in any form whatsoever without first obtaining the express written consent of Eric Smith Associates, P.C.

REVISIONS

No. Description Date

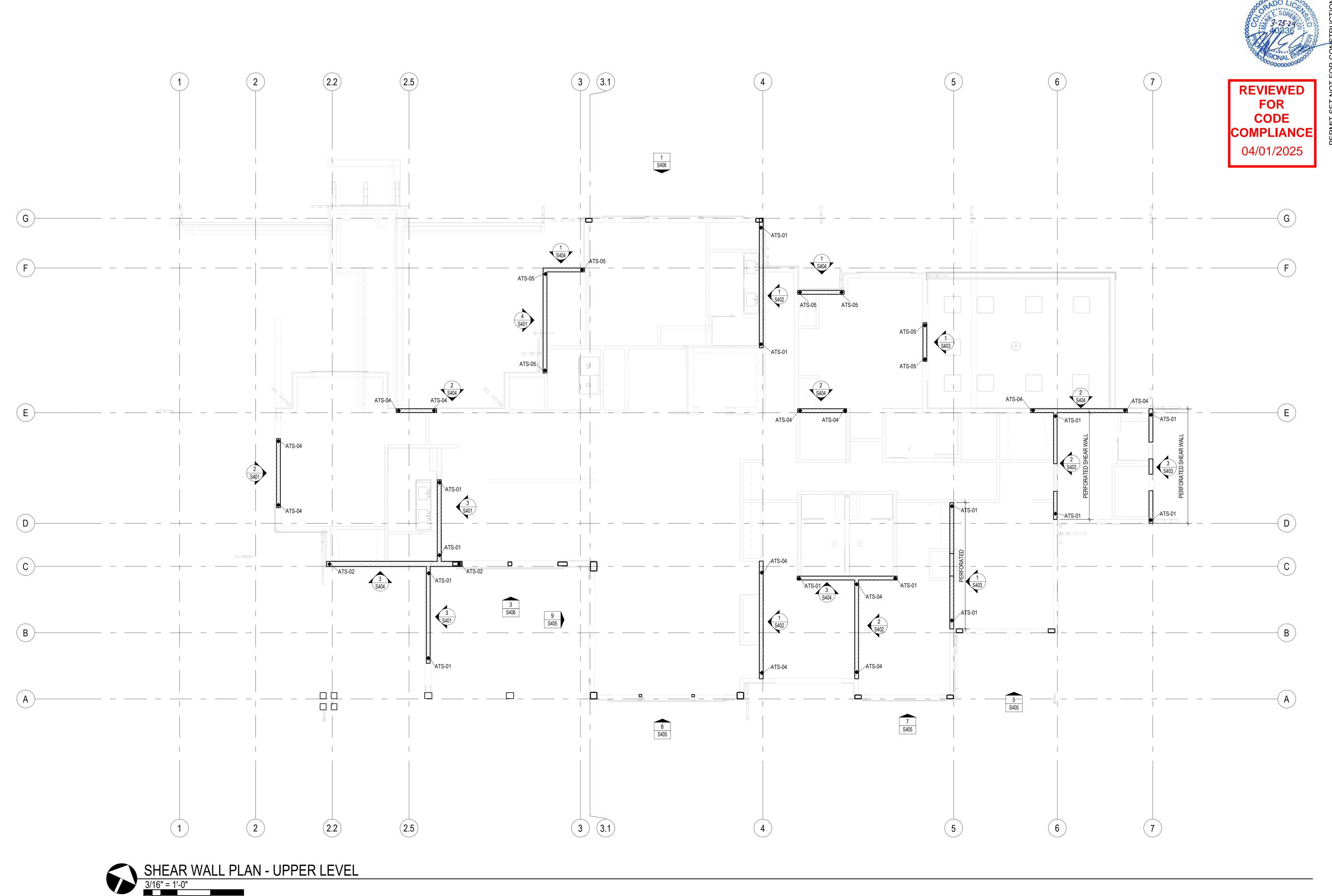
EDGEMONT/SHERMAN
FOURPLEX BUILDING 7
STEAMBOAT SPRINGS COLORADO

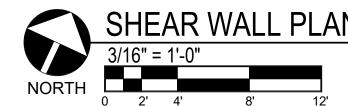


Job Number: 22025
Date: 03/25/24
Drawn By: BPK/LAB
Checked By: MES

Project Phase
PERMIT

Sheet Title
SHEAR WALL PLAN MAIN LEVEL





ONSULTING ENGINEER

Boulder, CO 80302 303.444.1951 www.jvajva.com Boulder ● Fort Collins ● Winter Park Glenwood Springs ● Denver JVA #22025

NOTICE: DUTY OF COOPERATION

Release of these plans contemplates further cooperation among the owner, his contractor and the architect. Design and construction are complex. Although the architect and his consultants have performed their services with due care and diligence, they cannot guarantee perfection. Communication is imperfect and every contingency cannot be anticipated. Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to the architect. Failure to notify the architect compounds misunderstanding and increases construction costs. A failure to cooperate by a simple notice to the architect shall relieve the architect from responsibility for the consequences. Changes made from the plans without consent of the architect are unauthorized and shall relieve the architect of responsibility for all consequences arriving out of such changes.

All design, documents and data prepared by Eric Smith Associates, P.C. as instruments of service shall remain property of Eric Smith Associates, P.C. and shall not be copied, changed or disclosed in any form whatsoever without first obtaining the express written consent of Eric Smith Associates, P.C.

Eric Smith Associates, P.C. **REVISIONS** Description Date

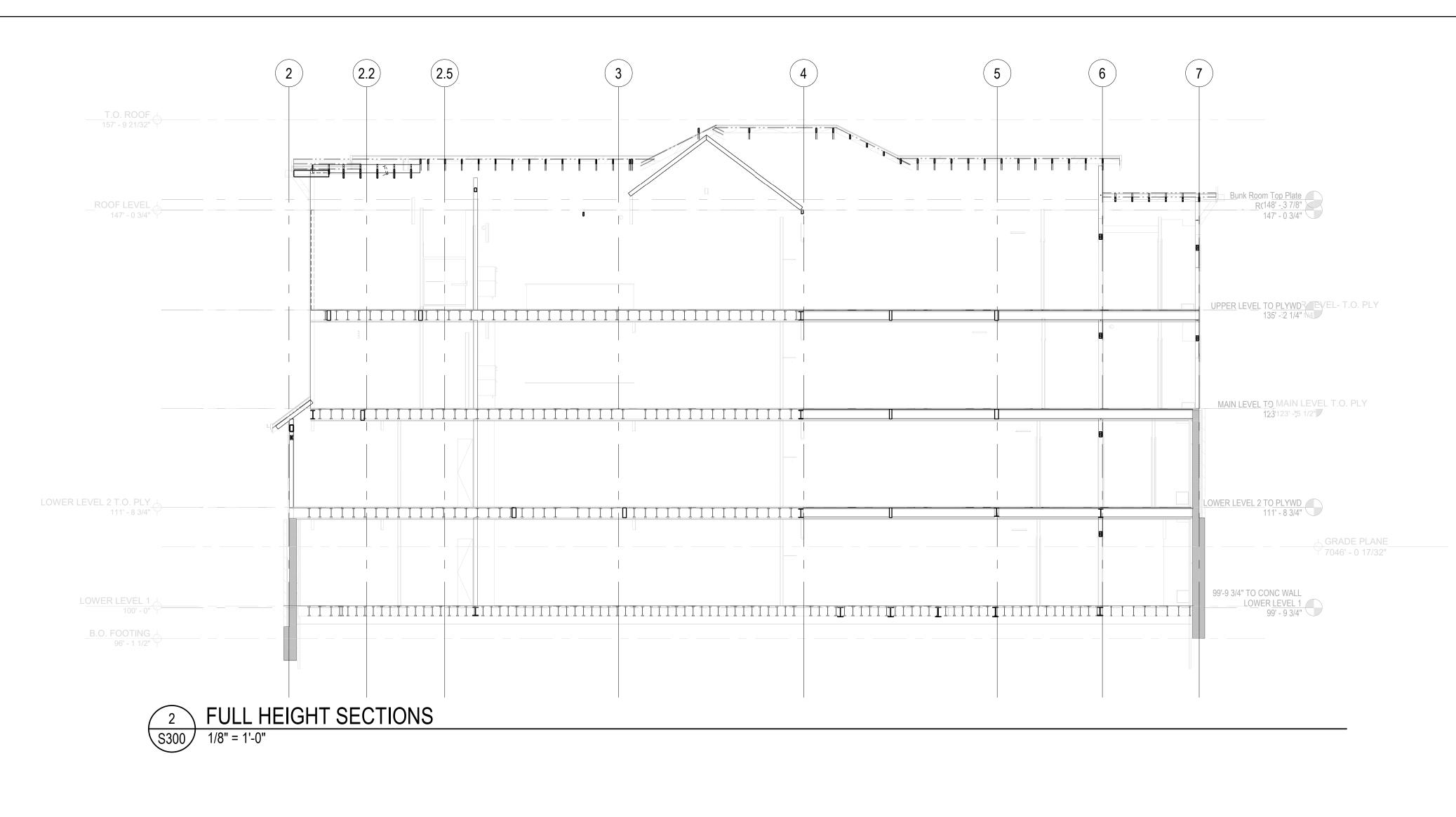
EDGEMONT/SHE FOURPLEX BUILI STEAMBOAT SPRINGS CO

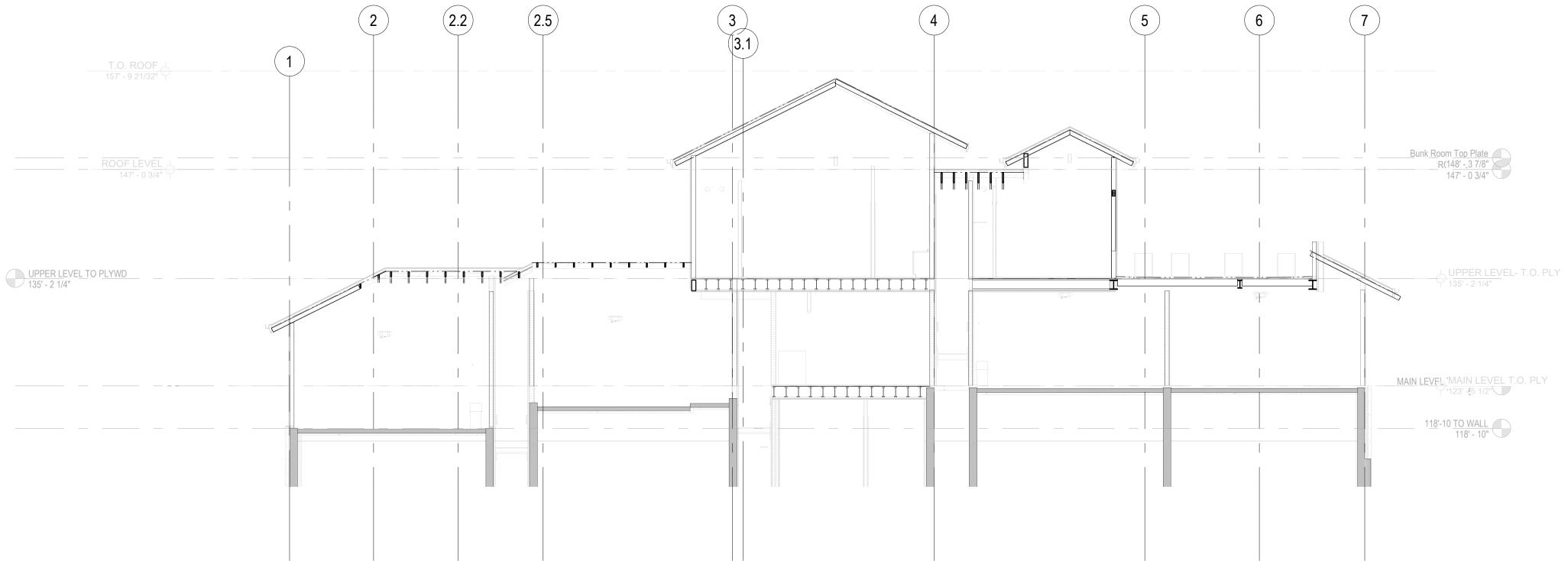


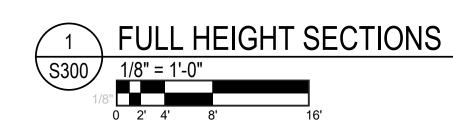
Job Number: Date: 22025 03/25/24 BPK/LAB Drawn By: Checked By:

Project Phase PERMIT

Sheet Title SHEAR WALL PLAN -UPPER LEVEL









JVA, Inc. 1319 Spruce Street
Boulder, CO 80302 303.444.1951
www.jvajva.com

Boulder ● Fort Collins ● Winter Park Glenwood Springs ● Denver JVA #22025

NOTICE: DUTY OF COOPERATION

Release of these plans contemplates further cooperation among the owner, his contractor and the architect. Design and construction are complex. Although the architect and his consultants have performed their services with due care and diligence, they cannot guarantee perfection. Communication is imperfect and every contingency cannot be anticipated. Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to the architect. Failure to notify the architect compounds misunderstanding and increases construction costs. A failure to cooperate by a simple notice to the architect shall relieve the architect from responsibility for the consequences. Changes made from the plans without

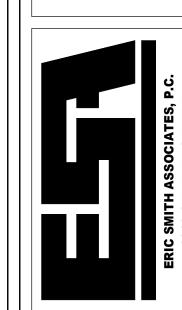
shall relieve the architect from responsibility for the consequences. Changes made from the plans without consent of the architect are unauthorized and shall relieve the architect are unauthorized and shall relieve the architect of responsibility for all consequences arriving out of such changes.

All design, documents and data prepared by Eric Smith Associates, P.C. as instruments of service shall remain property of Eric Smith Associates, P.C. and shall not be copied, changed or disclosed in any form whatsoever without first obtaining the express written consent of Eric Smith Associates, P.C.

Eric Smith Associates, P.C.

REVISIONS							
No.	Description	Date					

EDGEMONT/SHERMAN
FOURPLEX BUILDING 7
STEAMBOAT SPRINGS COLORADO



Job Number: 22025
Date: 03/25/24
Drawn By: BPK/LAB
Checked By: MES

Project Phase PERMIT

Sheet Title
FULL HEIGHT SECTIONS



04/01/2025

ONSULTING ENGINEER Boulder, CO 80302 303.444.1951 www.jvajva.com Boulder ● Fort Collins ● Winter Park Glenwood Springs

◆ Denver

JVA #22025

> NOTICE: DUTY OF COOPERATION Release of these plans contemplates further cooperation among the owner, his contractor and the architect. Design and construction are complex.
> Although the architect and his consultants have performed their services with due care and diligence, they cannot guarantee perfection. Communication is imperfect and every contingency cannot be anticipated. Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to the architect. Failure to notify the architect compounds misunderstanding and increases construction costs. A failure to cooperate by a simple notice to the architect shall relieve the architect from responsibility for the consequences. Changes made from the plans without consent of the architect are unauthorized and shall relieve the architect of responsibility for all consequences arriving out of such changes.

All design, documents and data prepared by Eric Smith Associates, P.C. as instruments of service shall remain property of Eric Smith Associates, P.C. and shall not be copied, changed or disclosed in any form whatsoever without first obtaining the express written consent of Eric Smith Associates, P.C. Eric Smith Associates, P.C.

REVISIONS No. Description Date

LDING 7 COLORADO EDGEMONT/SHE FOURPLEX BUILI STEAMBOAT SPRINGS CO

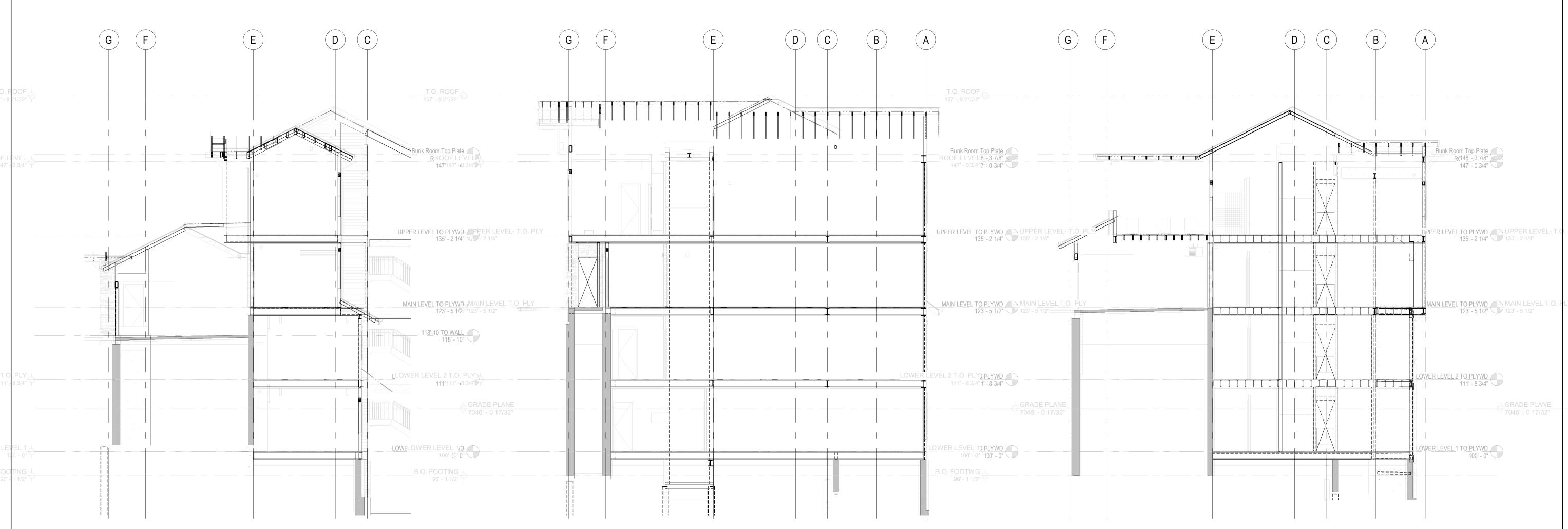
Job Number: Date: 22025 03/25/24 BPK/LAB **Drawn By:** Checked By:

Project Phase

PERMIT

Sheet Title FULL HEIGHT SECTIONS

Sheet Number



FULL HEIGHT SECTION S301 1/8" = 1'-0"

FULL HEIGHT SECTION

FULL HEIGHT SECTION

REVIEWED CODE COMPLIANC 04/01/2025

LIGHT GAGE CLIP

 EXTEND SHEATHING TO TOP OF PLATE

- FLAT 2x EDGE BLKG

- TYPICAL STUD

- WALL SHEATHING

- HOLDOWN

SEE SCHEDULE

consequences. Changes made from the plans without consent of the architect are unauthorized and shall relieve the architect of responsibility for all consequences arriving out of such changes. All design, documents and data prepared by Eric Smith Associates, P.C. as instruments of service shall remain property of Eric Smith Associates, P.C. and shall not be copied, changed or disclosed in any form whatsoever without first obtaining the express written consent of Eric Smith Associates, P.C.

Eric Smith Associates, P.C.

NSULTING ENGINEE

Boulder, CO 80302 303.444.1951 www.jvajva.com Boulder • Fort Collins • Winter Park Glenwood Springs • Denver

NOTICE: DUTY OF COOPERATION

Release of these plans contemplates further cooperation among the owner, his contractor and the architect. Design and construction are complex. Although the architect and his consultants have performed their services with due care and diligence they cannot guarantee perfection. Communication is

imperfect and every contingency cannot be anticipated.
Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to the architect. Failure to notify the architect compounds

nisunderstanding and increases construction costs. A failure to cooperate by a simple notice to the architect shall relieve the architect from responsibility for the

No. Description Da	REVISIONS						
	No.	Description	Date				

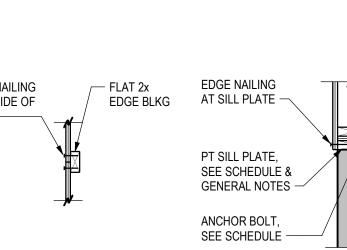
22025 Job Number: 03/25/24

Drawn By: Checked By:

Project Phase PERMIT

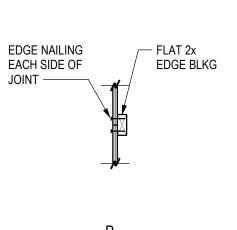
Sheet Title SHEAR WALL DETAILS & SCHEDULES

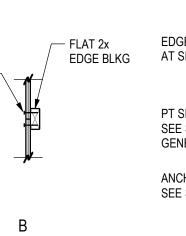
Sheet Number

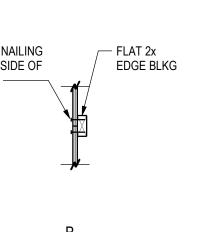


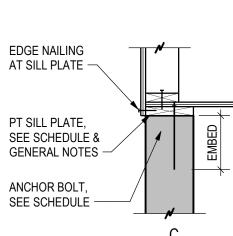
CONCEPTUAL LAYOUT AT SOLID SHEAR WALLS

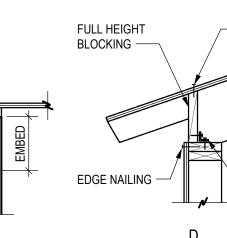
SHEAR WALL ELEVATIONS WITH HDU HOLDDOWNS

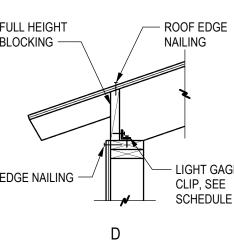












SHEAR WALL - SECTIONS 3/4" = 1'-0"

AT (1) STUD

ROOF RAFTER, TYP -

DBL 2x TOP PL, TYP —

NAILING AT PANEL EDGES, SEE SCHEDULE

BOUNDARY STUDS -

NAILING IN FIELD,

SEE SCHEDULE -

NAILING AT PANEL

HOLDOWN -

EXTEND WALL

SHEATHING TO

PT SILL PLATE,

SEE SCHEDULE -

SEE SCHEDULE -

3/8" = 1'-0"

SINGLE 2X STUD OR DBL AS

WHERE NEEDED

EDGE NAILING

EACH SIDE OF

16d @ EDGE

SPACING -

OCCURS OR

PER SCH —

0.229"x3" PLATE WASHER DETAIL

MAX

PLATE WASHER,

SLOTTED HOLES

ARE ACCEPTABLE

DIAGONALLY

UP TO 3/16 "

LARGER THAN

HOLE DIAMETER,

SLOT LENGTH NOT

TO EXCEED 1 3/4"

BP OR BPS MAY BE

SILL ANCHOR BOLT,

BOTTOM OF SILL PL -

EDGES, SEE SCHEDULE -

TOC

SOLID BLOCKING -

TENSION-ROD SYSTEM LOADING CRITERIA (ATS) TOTAL UPLIFT ROD (LBS IN ASD) COMMENTS 4-R 2700 (3) 2X6 (3) 2X614100 (3) 2X620900 (3) 2x8 7800 14100 (3) 2x8 1-2 20900 (3) 2x8 ATS - 03 4-R WHERE OCCURS (2) 2X6 10300 3-4 10300 WHERE OCCURS 2-3 (2) 2X6ATS - 04 4-R (2) 2X6 13300 3-4 (2) 2X6ATS - 05 2-3 6800 ALT. HDU-8

ATS SHEAR WALL NOTES & SCHEDULE:

- LIGHT GAGE CLIP,

EXTEND SHEATHING

TO TOP OF PLATE

- FLAT 2x EDGE BLKG

- TYPICAL STUD

TENSION SYSTEM

ANCHOR TENSION

SYSTEM ROD

SEE SCHEDULE

TO PL

- EXTEND SHEATHING TO TOP OF PLATE

FLAT 2x EDGE BLKG

- TYPICAL STUD

- WALL SHEATHING

TENSION SYSTEM

ANCHOR TENSION

SYSTEM ROD

- WALL POST FOR ANCHOR

- WHEN PARALLEL TO WALL, "U"

BARS ARE ROTATED 90 DEG. ADD

(2) #5 x 5'-0" BOTTOM OF "U" BARS

WALL POST FOR ANCHOR

WHEN PARALLEL TO WALL, "U"

BARS ARE ROTATED 90 DEG. ADD

(2) #5 x 5'-0" BOTTOM OF "U" BARS

SEE SCHEDULE

- 1. PROVIDE ANCHOR BOLTS PER THE SHEAR WALL SCHEDULE, A MAXIMUM OF 12" & 4 1/2" MIN FROM EACH END OF THE PLATE, AND A
- MINIMUM OF (2) ANCHOR BOLTS PER PLATE. 2. PROVIDE BPS PLATE WASHERS (PL0.229 x 3 x 0'-3" W/ DIAGONALLY SLOTTED HOLE) AT ALL ANCHOR BOLTS THAT EXTEND TO WITHIN ½" OF THE EDGE OF THE SOLE PLATE ON THE SIDE WITH THE SHEAR WALL SHEATHING. STAGGER PLATE WASHERS AT LOCATIONS WITH
- SHEATHING ON BOTH SIDES OF THE WALL. 3. PROVIDE 2x FRAMING OR BLOCKING AT ALL SHEAR WALL PANEL JOINTS UNLESS NOTED OTHERWISE. BLOCKING SHALL BE PLACED FLAT
- BETWEEN WALL STUDS, CENTERED AT PANEL JOINTS. 4. NAIL SPACING APPLIES TO ALL STUDS, TOP AND BOTTOM PLATES, AND BLOCKING
- NAIL HEADS SHALL BE FLUSH WITH THE SURFACE OF THE SHEATHING. AVOID OVER DRIVING NAILS.
- NAIL PENETRATION INTO WOOD FRAMING MEMBERS SHALL BE 1 5/8" FOR 10d NAILS (0.148"Øx3") AND 1 1/2" FOR 8d NAILS (0.131Øx2 1/2"). EDGE NAILING AT SHEAR WALL PANEL JOINTS SHALL BE AT LEAST 3/8" FROM THE EDGE OF THE PANEL
- 8. WHERE 10d NAILS ARE SPACED AT 3" OR LESS ON CENTER AND PENETRATE INTO THE FRAMING MORE THAN 1 5/8", NAILS ARE TO BE STAGGERED AND FRAMING AT PANEL EDGES SHALL BE A MINIMUM OF 3x OR (2)2x.
- WHERE 8d NAILS ARE SPACED AT 2" OR LESS ON CENTER AND PENETRATE INTO THE FRAMING MORE THAN 1 1/2", NAILS ARE TO BE STAGGERED AND FRAMING AT PANEL EDGES SHALL BE A MINIMUM OF 3x OR (2)2x.
- 10. AT LOCATIONS WHERE THE SHEATHING IS REQUIRED ON BOTH SIDES OF THE WALL, STAGGER THE PANEL JOINTS ON THE WALL STUDS 11. PROVIDE A MINIMUM OF (2)2x POST EACH SIDE OF ATS ANCHORS AT THE ENDS OF ALL SHEAR WALLS U.N.O. PROVIDE PANEL EDGE
- NAILING TO POST AS INDICATED IN THE SHEAR WALL SCHEDULE AND PER PROVIDE HOLDDOWNS AS INDICATED ON SHEAR WALL ELEVATIONS. HOLDDOWNS SHALL BE AT THE END OF THE WALLS AS PER
- DETAIL 7/S509 HOLDOWNS SHALL STACK VERTICALLY ON END WALL POST 13. ALL PRODUCTS AND MATERIAL USED BY THE CONTRACTOR SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURE'S
- 14. CONTRACTOR SHALL COORDINATE LOCATION OF HOLD DOWN ANCHOR BOLTS AND EMBEDS BETWEEN ACHITECTURAL AND STRUCTURAL DRAWINGS AS REQUIRED TO ENSURE ACCURATE LOCATION AND PLACEMENT. ALL ANCHOR BOLTS AND EMBEDS SHALL
- BE TIED INTO PLACE PRIOR TO POURING CONCRETE. WET SETTING OF ANCHOR BOLTS OR EMBEDS ARE NOT ALLOWED.. 15. THE SHEAR WALL DESIGNATION APPLIES TO THE FULL EXTENT OF THE WALLS BETWEEN CORNERS OF WALLS U.N.O. SHEAR WALL
- SHEATHING SHALL RUN CONTINUOUS THROUGH BREAKS CAUSED BY INTERSECTING WALLS. 16. PLACE SHEATHING ON THE SAME SIDE OF THE WALL THAT THE ELEVATION TAG IS NOTED ON.
- 17. PROVIDE SHEAR WALL SHEATHING AND TYPE SW1 NAILING FOR ALL EXTERIOR WALLS U.N.O. 18. PANELS SHALL NOT BE LESS THAN 4'-0" x 8'-0" EXCEPT AT BOUNDARIES AND CHANGES IN FRAMING WHERE MINIMUM PANEL DIMENSION
- 19. SHEAR WALL NOTED THUS:

MARK	SHEATHING	EDGE	FIELD	ANCHOR BOLTS	BOTTOM PL NAILING	BOTTOM PL CLIPS	TOP PLATE CLIPS	WIND CAPACITY (DOUG FIR), PLF	SEISMIC CAPACITY (DOUG FIR), PLF	COMMENTS
SW6	7/16" APA 24/16 ONE SIDE	8d @ 6"	8d @ 12"	1/2" Ø @ 32"	12d @ 4"	N/A	A35 @ 24"	310	221	
SW4	7/16" APA 24/16 ONE SIDE	8d @ 4"	8d @ 12"	1/2" Ø @ 24"	12d @ 4"	A35 @ 48"	A35 @ 18"	453	323	
SW3	7/16" APA 24/16 ONE SIDE	8d @ 3"	8d @ 12"	5/8" Ø @ 24"	12d @ 4"	A35 @ 32"	A35 @ 12"	582	416	
SW2	7/16" APA 24/16 ONE SIDE	8d @ 2"	8d @ 12"	5/8" Ø @ 16"	12d @ 4"	A35 @ 16"	A35 @ 8"	761	543	
SW33	7/16" APA 24/16 BOTH SIDES	8d @ 3"	8d @ 12"	5/8" Ø @ 12"	12d @ 4"	A35 @ 8"	A35 @ 6"	1,165	832	
EDGE NAIL EA STUD DBL STUD AT VERT EDGE SPLICES EDGE SPLICES										

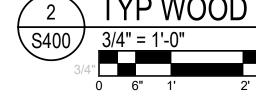
TYPICAL FOR ALL SHEAR WALL NAILING:

PER IBC / AWC SDPWS, SHEATHING NAILS SHALL BE DRIVEN FLUSH BUT SHALL NOT FRACTURE THE SURFACE OF THE SHEATHING. SHEATHING PANEL NAILING NOT CONFORMING TO THIS SECTION WILL NOT BE ACCEPTABLE AND WILL HAVE TO BE REINSTALLED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE NAIL GUNS USED FOR FASTENING ARE SET AT THE PROPER DEPTH AND/OR AIR PRESSURE TO ACHIEVE THE REQUIRED PENETRATION

GENERAL NOTES:

- 2. SEE PLAN FOR HOLDOWN TYPE AND LOCATION 3. UNLESS NOTED OTHERWISE, NUMBER OF STUDS AT EACH END OF SHEAR WALLS IS CALLED OUT ON PLAN
- 4. NO PENETRATIONS GREATER THAN 12"x12" IN SHEAR WALLS, BLOCK AND NAIL ALL EDGES 5. NO MECHANICAL OR PLUMBING PENETRATIONS IN TOP AND BOTTOM PLATES
- 8. MINIMUM WIDTH OF SHEATHING PANELS AT ENDS OF SHEAR WALLS SHALL BE 4'-0 TO ENSURE END STUDS
- SEE DETAILS FOR ATTACHMENT OF DIAPHRAGMS TO SHEARWALL PLATES, TYPICAL

1/2", NAILS ARE TO BE STAGGERED AND FRAMING AT PANEL EDGES SHALL BE A MINIMUM OF 3x OR (2)2x.



SHEAR WALL ELEVATIONS WITH ATS HOLDDOWNS

CONCEPTUAL LAYOUT AT SOLID SHEAR WALLS

CONCEPTUAL LAYOUT AT PERFORATED SHEAR WALLS



ROOF RAFTER, TYP —

SOLID BLOCKING -

DBL 2x TOP PL, TYP -

EDGES, SEE SCHEDULE

BOUNDARY STUDS -

NAILING IN FIELD,

TENSION SYSTEM -

NAILING AT PANEL

EDGES, SEE

SCHEDULE

ANCHOR

TENSION

SYSTEM ROD -

EXTEND WALL

SHEATHING TO

PT SILL PLATE, SEE SCHEDULE

BOTTOM OF SILL PL

SILL ANCHOR BOLTS, SEE SCHEDULE

ROOF RAFTER, TYP —

DBL 2x TOP PL, TYP —

NAILING AT PANEL EDGES, SEE SCHEDULE -

BOUNDARY STUDS -

NAILING IN FIELD,

NAILING AT PANEL

TENSION SYSTEM

ANCHOR TENSION

SYSTEM ROD -

EXTEND WALL

PT SILL PLATE,

SEE SCHEDULE

SILL ANCHOR BOLT

SHEATHING TO

BOTTOM OF SILL PL

EDGES, SEE SCHEDULE

WALL POST FOR ANCHOR

SEE SCHEDULE -

SOLID BLOCKING -

WALL POST FOR ANCHOR

TOC

SEE SCHEDULE -

NAILING AT PANEL



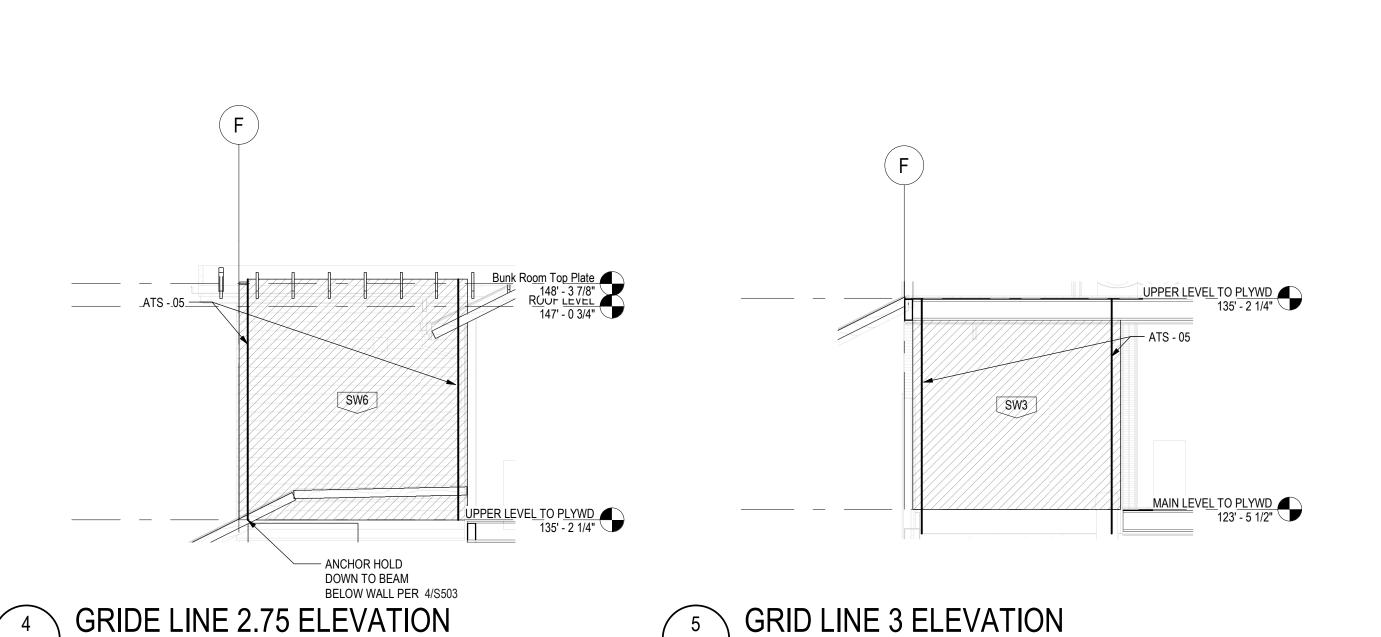
AT VERT EDGES AT HORIZ EDGES

'SW2' PANEL EDGE NAILING DETAIL

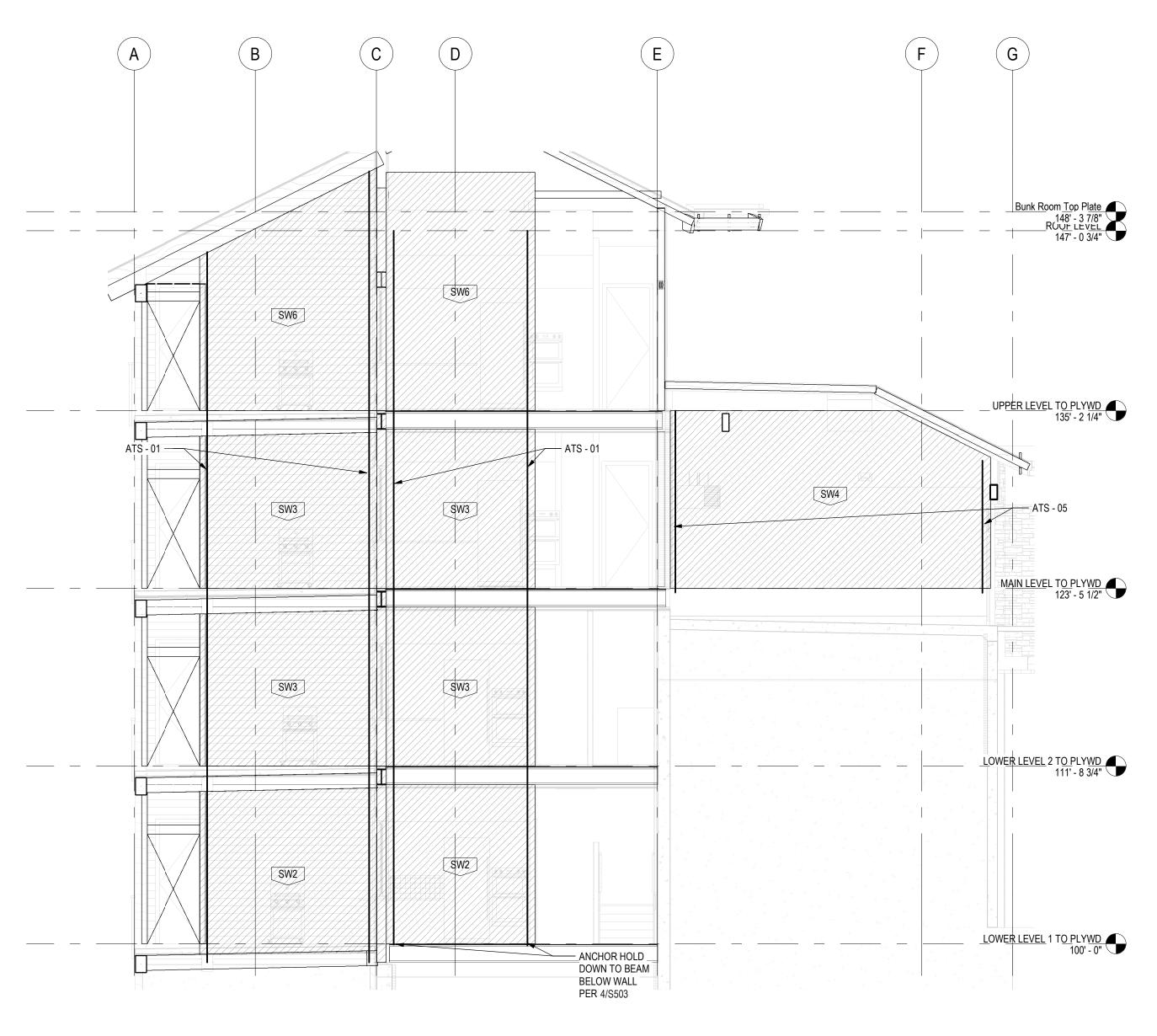
I. VALUES ARE BASED ON DOUGLAS FIR-LARCH FRAMING, SEE GENERAL NOTES

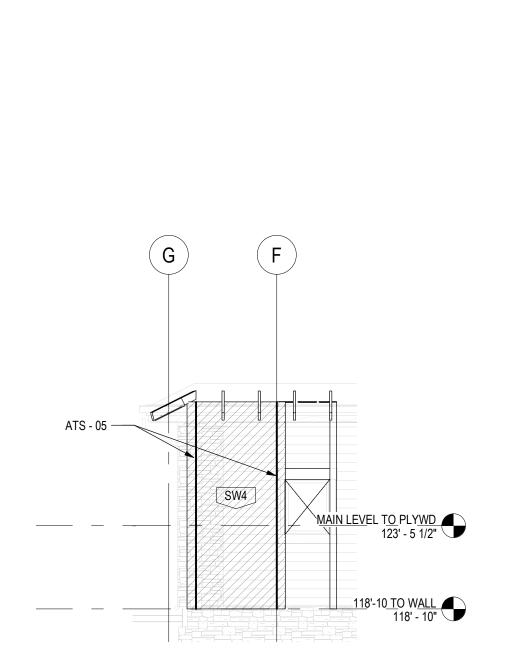
- 6. ALL EDGES SHALL BE BLOCKED WITH 2x MEMBERS AT PLYWOOD/OSB SHEATHED WALLS 7. ALL WALLS HAVE (2) 2x TOP PLATES AND (1) 2x BOTTOM PLATE EQUAL TO WIDTH OF STUD SIZE, TYP UNO
- 10. WHERE 10d NAILS ARE SPACED AT 3" OR LESS ON CENTER AND PENETRATE INTO THE FRAMING MORE THAN 1 5/8", NAILS ARE TO BE STAGGERED AND FRAMING AT PANEL EDGES SHALL BE A MINIMUM OF 3x OR (2)2x. WHERE 8d NAILS ARE SPACED AT 2" OR LESS ON CENTER AND PENETRATE INTO THE FRAMING MORE THAN 1

TYP WOOD SHEAR WALL NAILING & SCHEDULE



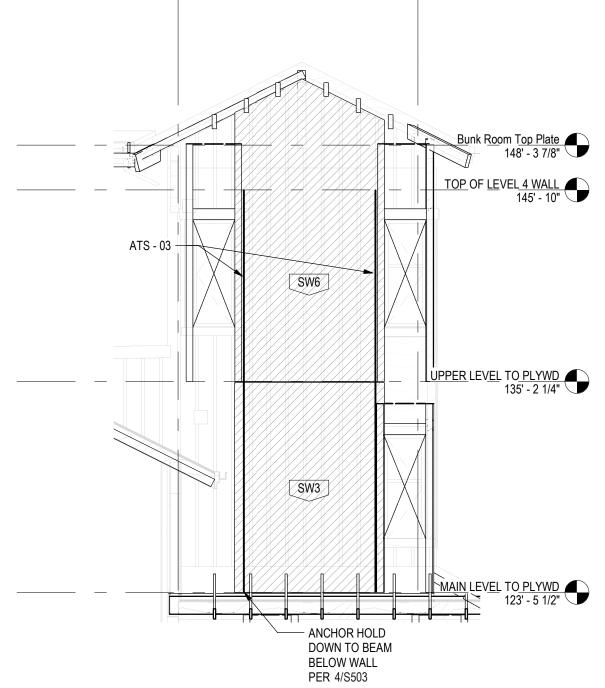
S401





1 GRID LINE 1 ELEVATION
S401 3/16" = 1'-0"

S401



D

2 GRID LINE 2 ELEVATION S401 3/16" = 1'-0"

 (E)

3 GRID LINE 2.5 ELEVATION
S401 3/16" = 1'-0"



REVIEWED
FOR
CODE
COMPLIANCE

04/01/2025

Release of these plans contemplates further cooperation among the owner, his contractor and the architect. Design and construction are complex. Although the architect and his consultants have performed their services with due care and diligence, they cannot guarantee perfection. Communication is imperfect and every contingency cannot be anticipated. Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to the architect. Failure to notify the architect compounds misunderstanding and increases construction costs. A failure to cooperate by a simple notice to the architect shall relieve the architect from responsibility for the consequences. Changes made from the plans without consent of the architect are unauthorized and shall relieve the architect of responsibility for all consequences arriving out of such changes.

Glenwood Springs

◆ Denver

JVA #22025

NOTICE: DUTY OF COOPERATION

All design, documents and data prepared by Eric Smith Associates, P.C. as instruments of service shall remain property of Eric Smith Associates, P.C. and shall not be copied, changed or disclosed in any form whatsoever without first obtaining the express written consent of Eric Smith Associates, P.C.

REVISIONS

No. Description Date

EDGEMONT/SHERMAN
FOURPLEX BUILDING 7
STEAMBOAT SPRINGS COLORADO



Job Number: 22025
Date: 03/25/24
Drawn By: BPK/LAB
Checked By: MES

Project Phase
PERMIT

Sheet Title
SHEAR WALL
ELEVATIONS



REVIEWED FOR CODE COMPLIANCE 04/01/2025

Glenwood Springs ● Denver JVA #22025 NOTICE: DUTY OF COOPERATION Release of these plans contemplates further cooperation among the owner, his contractor and the architect. Design and construction are complex.
Although the architect and his consultants have performed their services with due care and diligence, they cannot guarantee perfection. Communication is imperfect and every contingency cannot be anticipated.

Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to the architect. Failure to notify the architect compounds misunderstanding and increases construction costs. A failure to cooperate by a simple notice to the architect shall relieve the architect from responsibility for the consequences. Changes made from the plans without consent of the architect are unauthorized and shall relieve the architect of responsibility for all consequences arriving out of such changes.

ONSULTING ENGINEERS

Boulder, CO 80302 303.444.1951 www.jvajva.com Boulder ● Fort Collins ● Winter Park

All design, documents and data prepared by Eric Smith Associates, P.C. as instruments of service shall remain property of Eric Smith Associates, P.C. and shall not be copied, changed or disclosed in any form whatsoever without first obtaining the express written consent of Eric Smith Associates, P.C. Eric Smith Associates, P.C.

REVISIONS No. Description Date

EDGEMONT/SHE FOURPLEX BUILI STEAMBOAT SPRINGS C



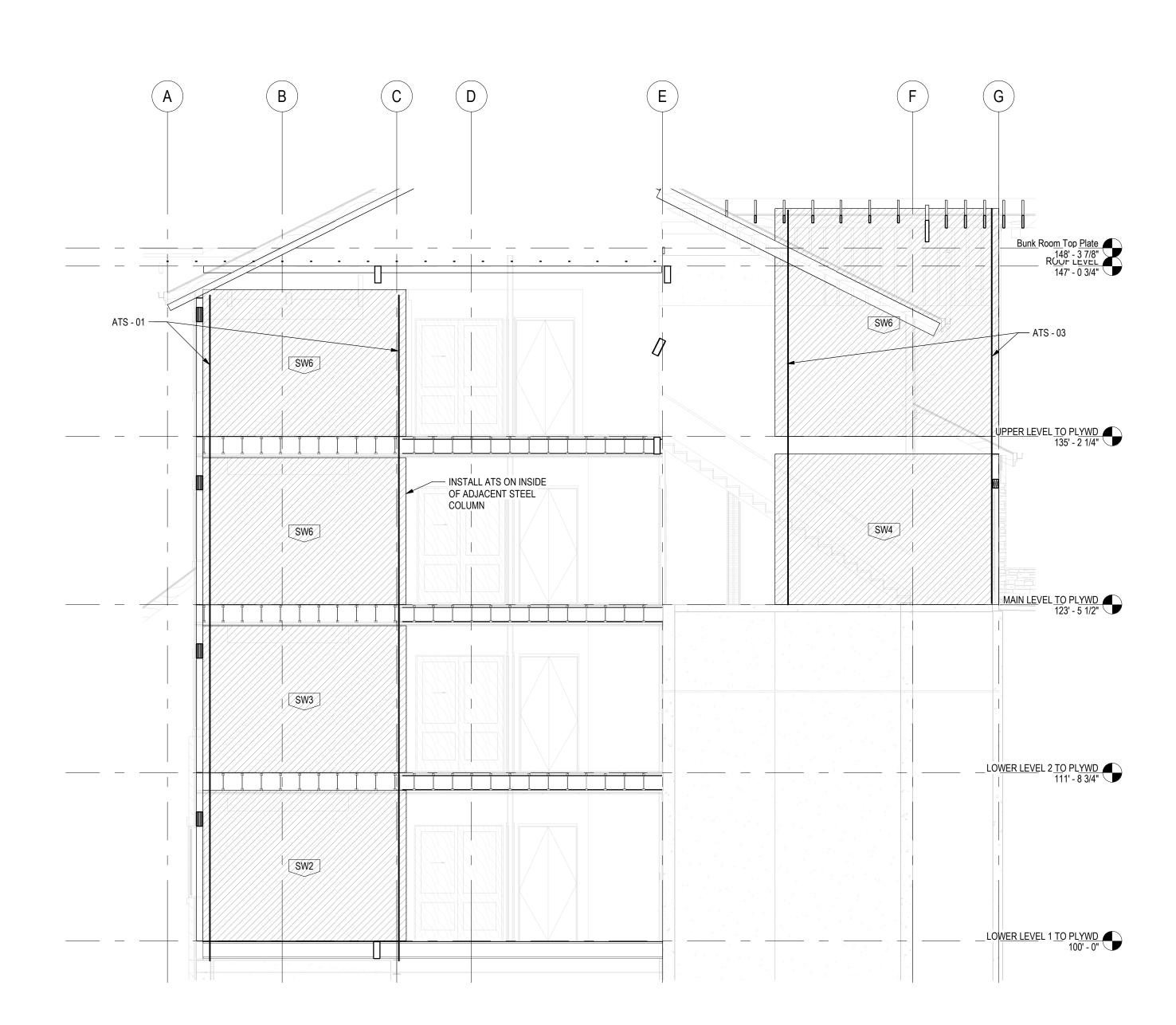
Job Number: Date: 22025 03/25/24 Drawn By:

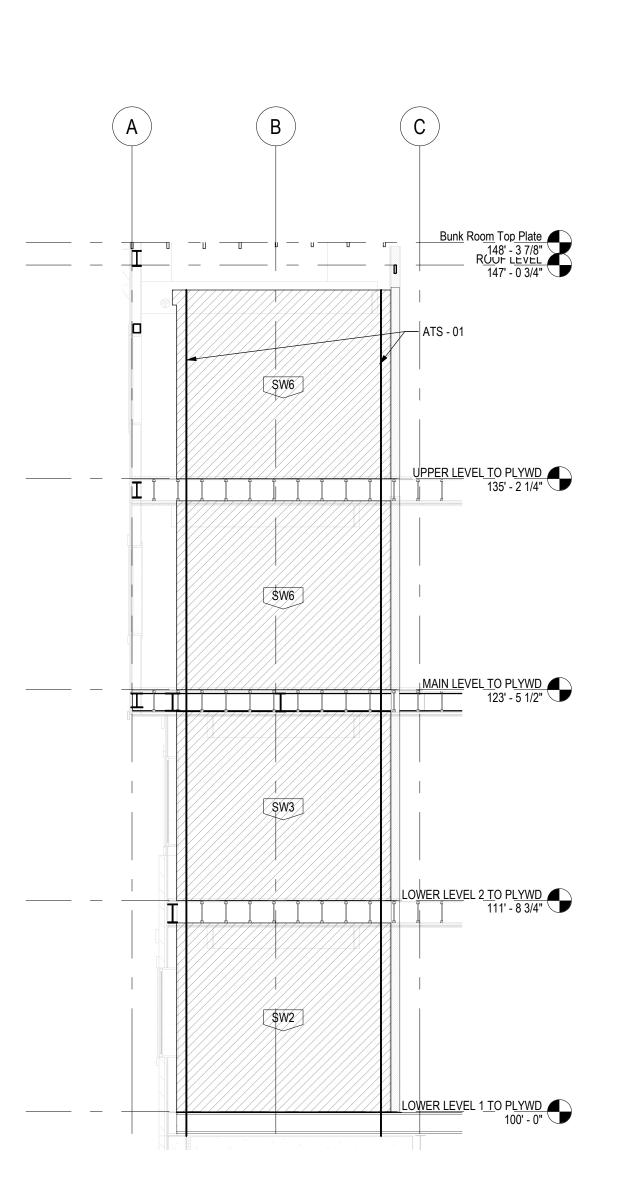
Checked By:

PERMIT

Sheet Title
SHEAR WALL
ELEVATIONS

Sheet Number





2 GRID LINE 4.5 ELEVATION
S402 3/16" = 1'-0"

GRID LINE 4 ELEVATION S402 3/16" = 1'-0"



REVIEWED FOR CODE COMPLIANCE 04/01/2025

ONSULTING ENGINEER JVA, Inc. 1319 Spruce Street Boulder, CO 80302 303.444.1951 www.jvajva.com Boulder ● Fort Collins ● Winter Park Glenwood Springs ● Denver JVA #22025

NOTICE: DUTY OF COOPERATION Release of these plans contemplates further cooperation among the owner, his contractor and the architect. Design and construction are complex.
Although the architect and his consultants have performed their services with due care and diligence, they cannot guarantee perfection. Communication is imperfect and every contingency cannot be anticipated. Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to the architect. Failure to notify the architect compounds misunderstanding and increases construction costs. A failure to cooperate by a simple notice to the architect shall relieve the architect from responsibility for the consequences. Changes made from the plans without consent of the architect are unauthorized and shall relieve the architect of responsibility for all

consequences arriving out of such changes. All design, documents and data prepared by Eric Smith Associates, P.C. as instruments of service shall remain property of Eric Smith Associates, P.C. and shall not be copied, changed or disclosed in any form whatsoever without first obtaining the express written consent of Eric Smith Associates, P.C.

Eric Smith Associates, P.C.

REVISIONS						
No.	Description	Date				

EDGEMONT/SHE FOURPLEX BUILI STEAMBOAT SPRINGS C

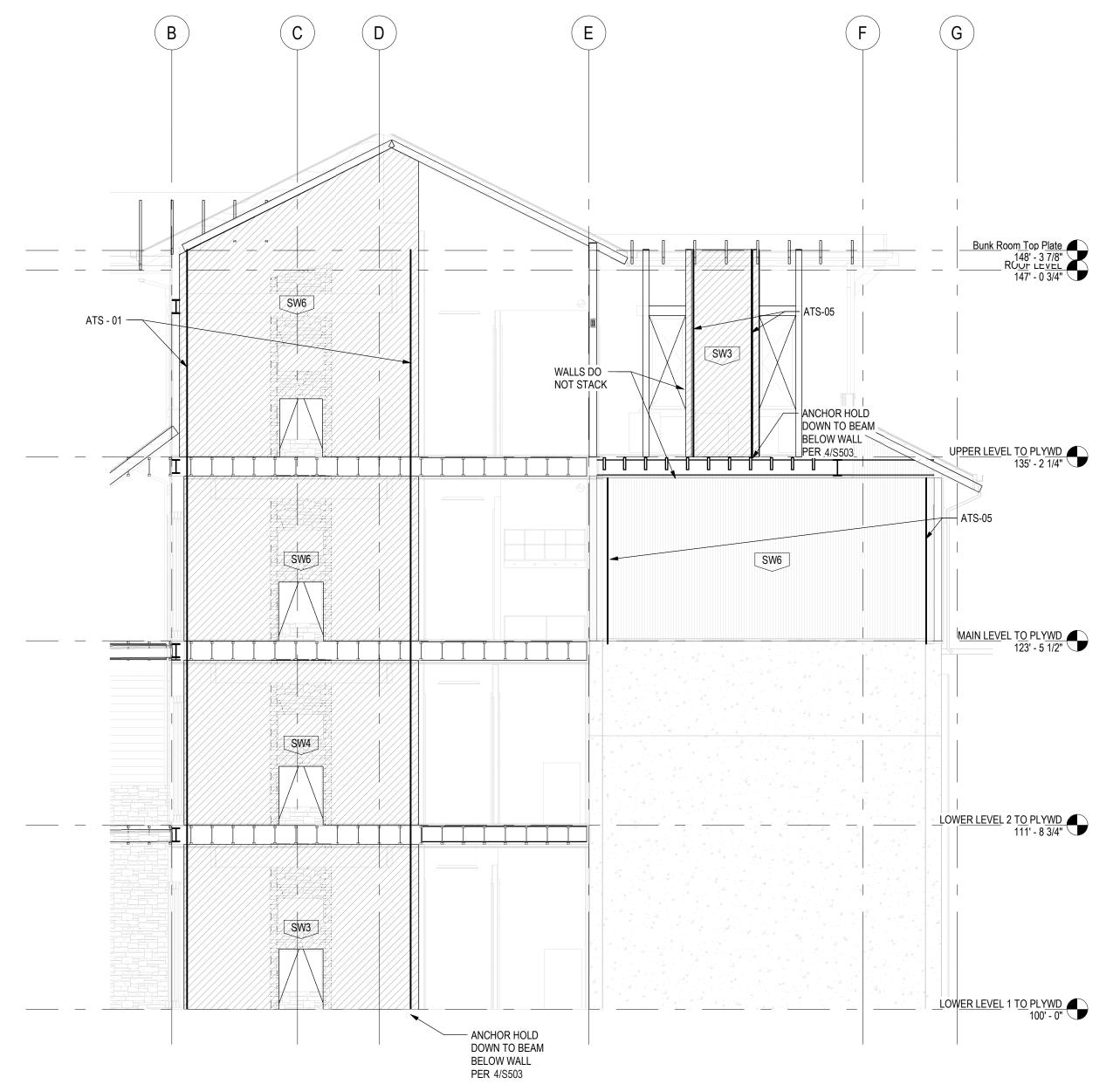
22025 Job Number: Date: 03/25/24 BPK/LAB

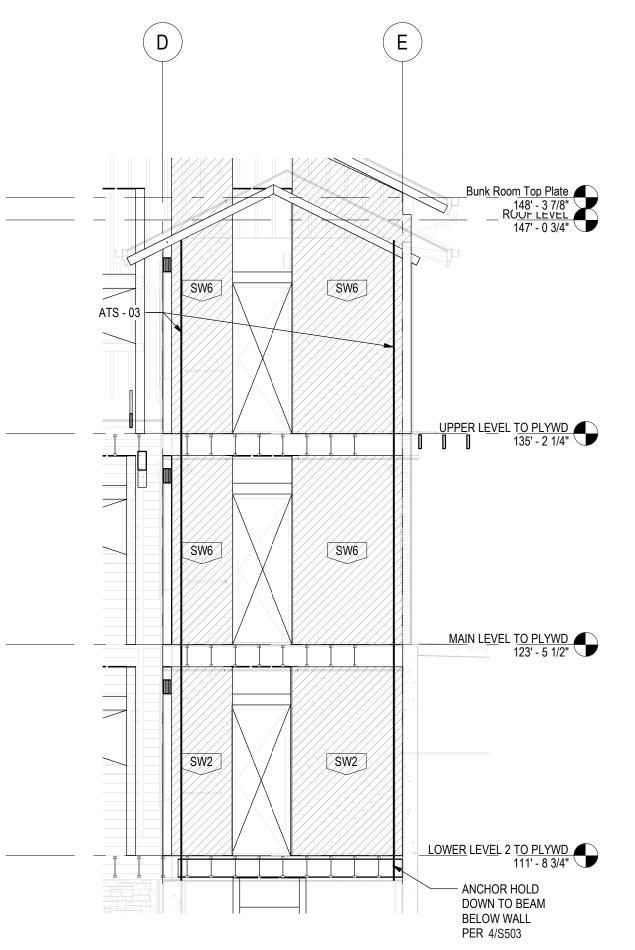
Drawn By: Checked By:

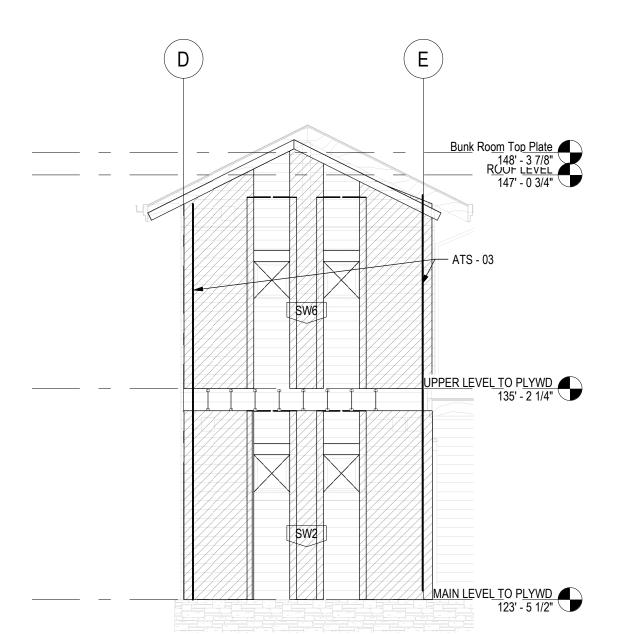
Project Phase PERMIT

Sheet Title
SHEAR WALL
ELEVATIONS

Sheet Number



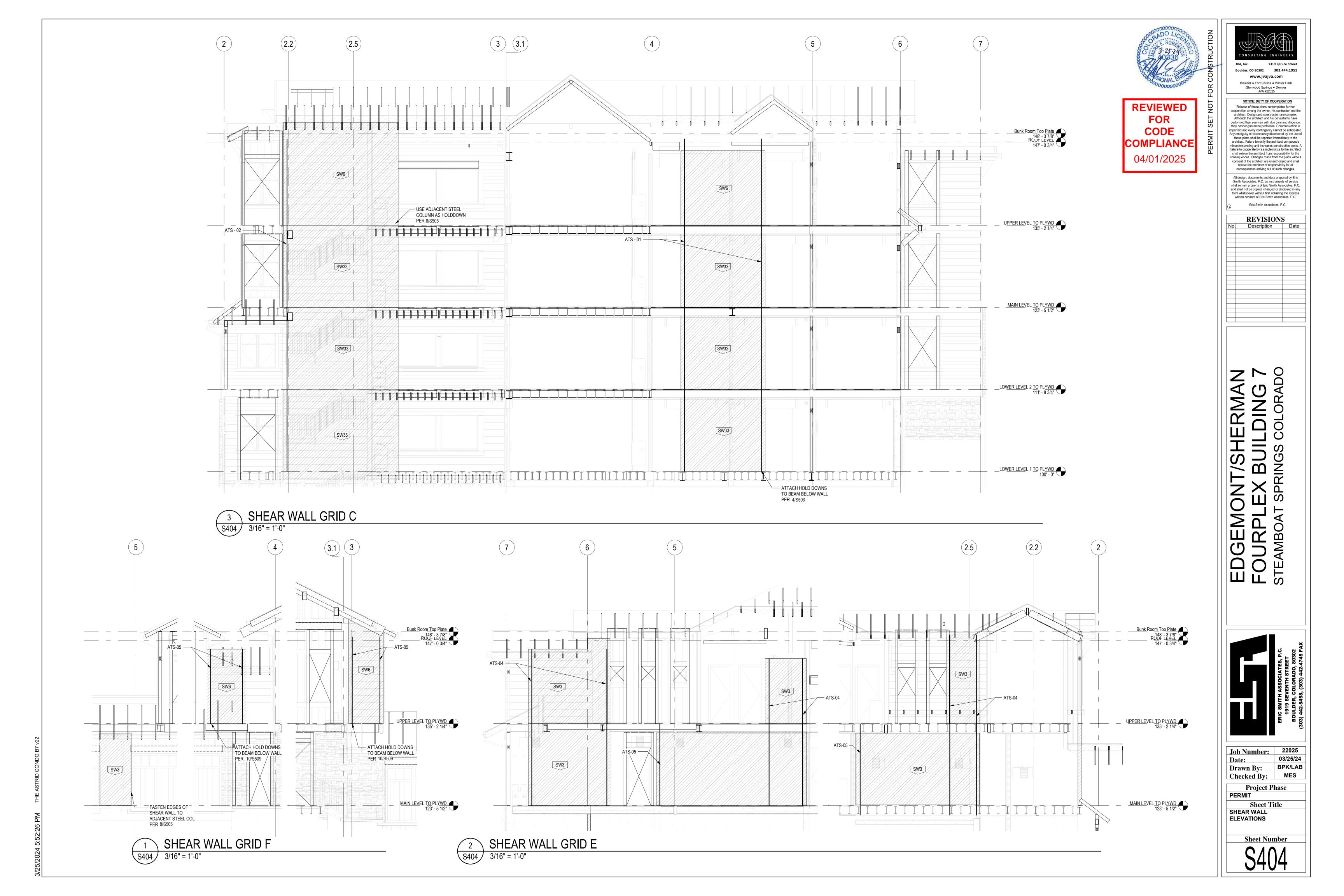


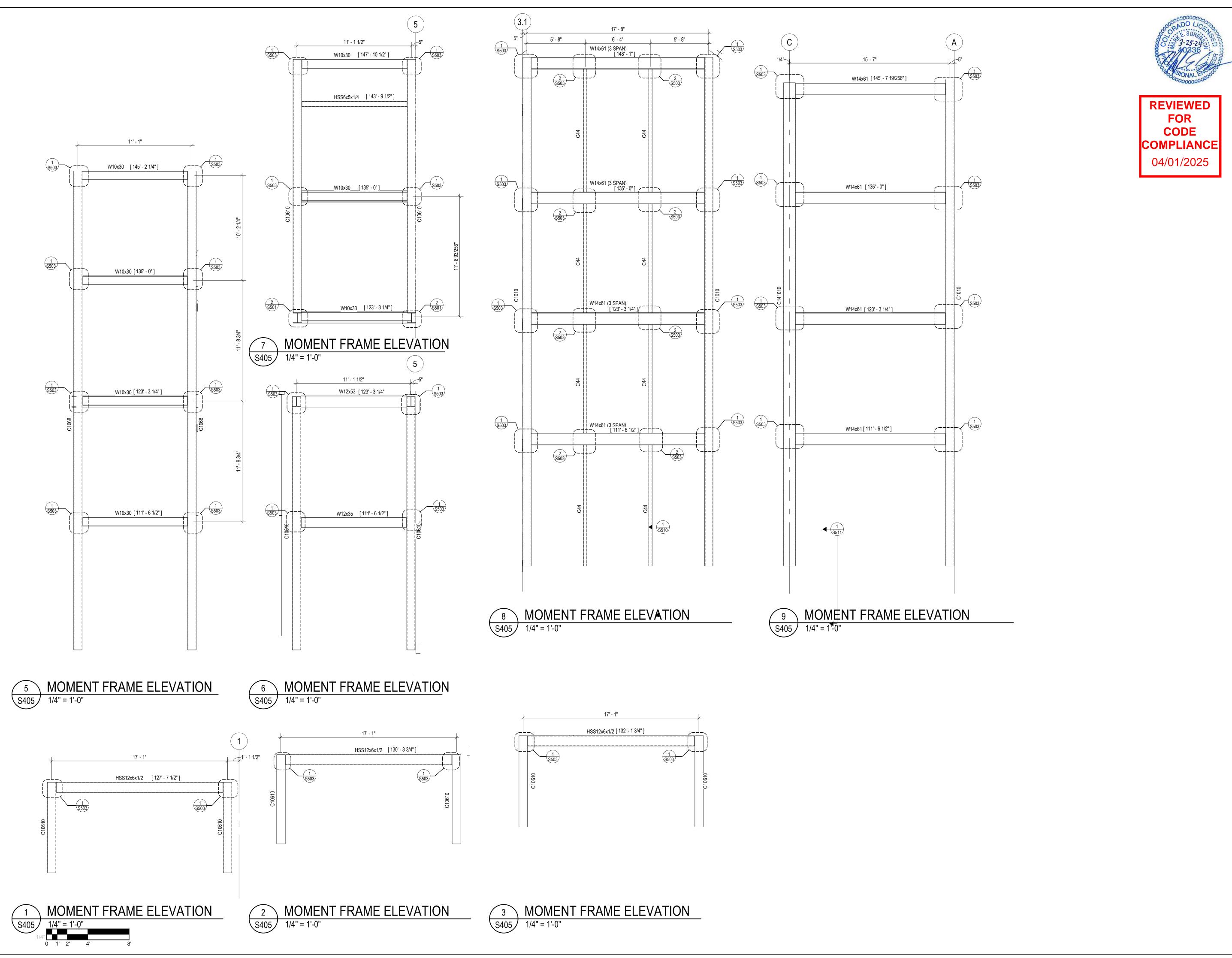


2 GRID LINE 6 ELEVATION
3/16" = 1'-0"

1 GRID LINE 5 ELEVATION
S403 3/16" = 1'-0"

3 GRID LINE 7 ELEVATION
S403 3/16" = 1'-0"





JVA, Inc. 1319 Spruce Street
Boulder, CO 80302 303.444.1951

JVA, Inc. 1319 Spruce Stree

Boulder, CO 80302 303.444.195:

www.jvajva.com

Boulder • Fort Collins • Winter Park
Glenwood Springs • Denver

JVA #22025

NOTICE: DUTY OF COOPERATION

Release of these plans contemplates further cooperation among the owner, his contractor and the architect. Design and construction are complex. Although the architect and his consultants have performed their services with due care and diligence, they cannot guarantee perfection. Communication is imperfect and every contingency cannot be anticipated. Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to the architect. Failure to notify the architect compounds misunderstanding and increases construction costs. A failure to cooperate by a simple notice to the architect

shall relieve the architect from responsibility for the consequences. Changes made from the plans without consent of the architect are unauthorized and shall relieve the architect are unauthorized and shall relieve the architect of responsibility for all consequences arriving out of such changes.

All design, documents and data prepared by Eric Smith Associates, P.C. as instruments of service shall remain property of Eric Smith Associates, P.C. and shall not be copied, changed or disclosed in any form whatsoever without first obtaining the express written consent of Eric Smith Associates, P.C.

REVISIONS

No. Description Date

EDGEMONT/SHERMAN FOURPLEX BUILDING STEAMBOAT SPRINGS COLORAD



Job Number: 22025
Date: 03/25/24
Drawn By: BPK/LAB
Checked By: MES

Project Phase

Sheet Title
LATERAL FRAME
ELEVATIONS



REVIEWED FOR CODE COMPLIANCE 04/01/2025

Glenwood Springs ● Denver JVA #22025 NOTICE: DUTY OF COOPERATION Release of these plans contemplates further cooperation among the owner, his contractor and the architect. Design and construction are complex.
Although the architect and his consultants have performed their services with due care and diligence, they cannot guarantee perfection. Communication is imperfect and every contingency cannot be anticipated. Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to the architect. Failure to notify the architect compounds misunderstanding and increases construction costs. A failure to cooperate by a simple notice to the architect shall relieve the architect from responsibility for the shall relieve the architect from responsibility for the consequences. Changes made from the plans without consent of the architect are unauthorized and shall relieve the architect of responsibility for all consequences arriving out of such changes.

ONSULTING ENGINEERS

Boulder, CO 80302 303.444.1951 www.jvajva.com Boulder ● Fort Collins ● Winter Park

All design, documents and data prepared by Eric Smith Associates, P.C. as instruments of service shall remain property of Eric Smith Associates, P.C. and shall not be copied, changed or disclosed in any form whatsoever without first obtaining the express written consent of Eric Smith Associates, P.C. Eric Smith Associates, P.C.

REVISIONS No. Description Date

EDGEMONT/SHE FOURPLEX BUILI STEAMBOAT SPRINGS C

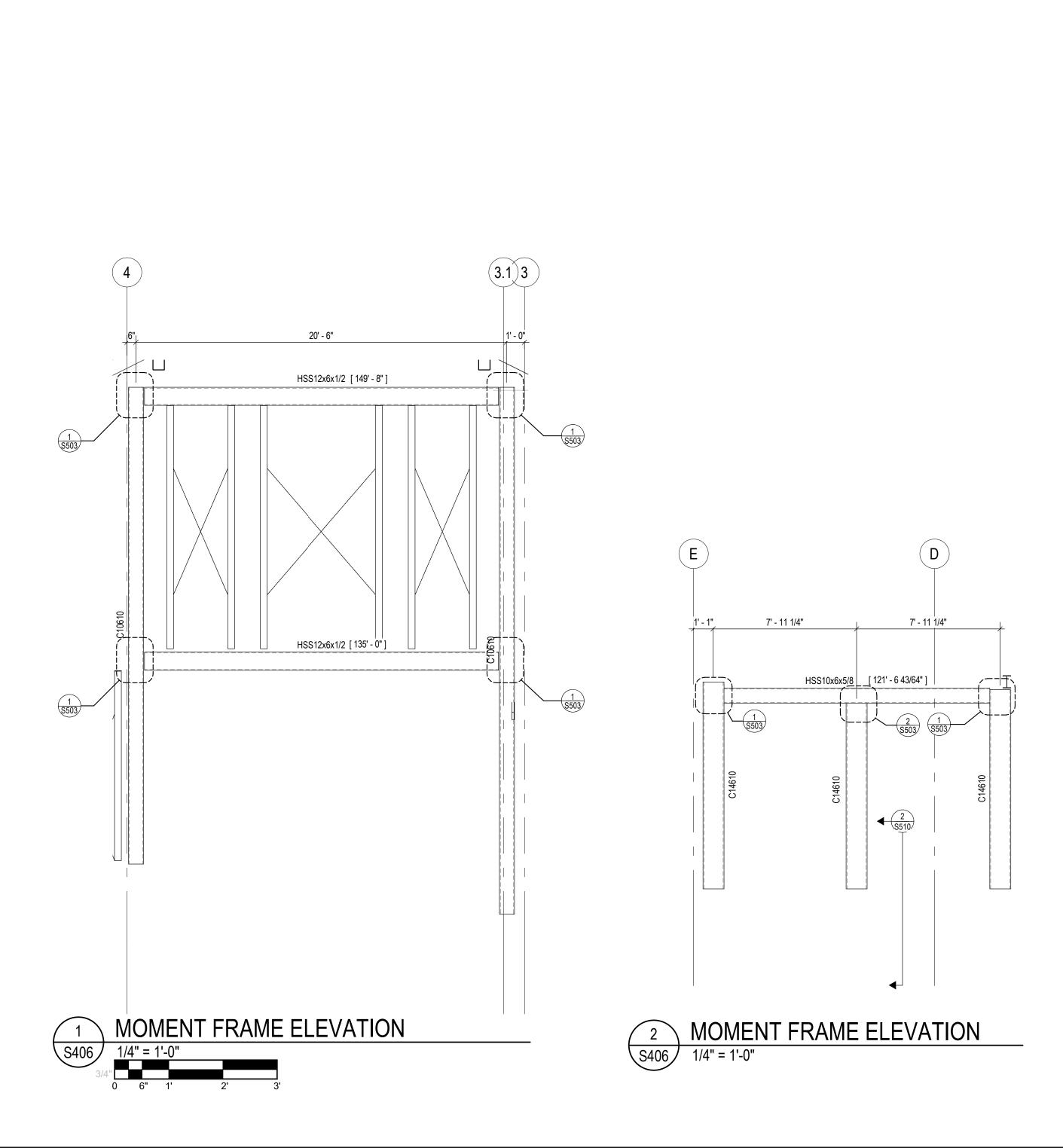
Job Number: 03/25/24 Drawn By:

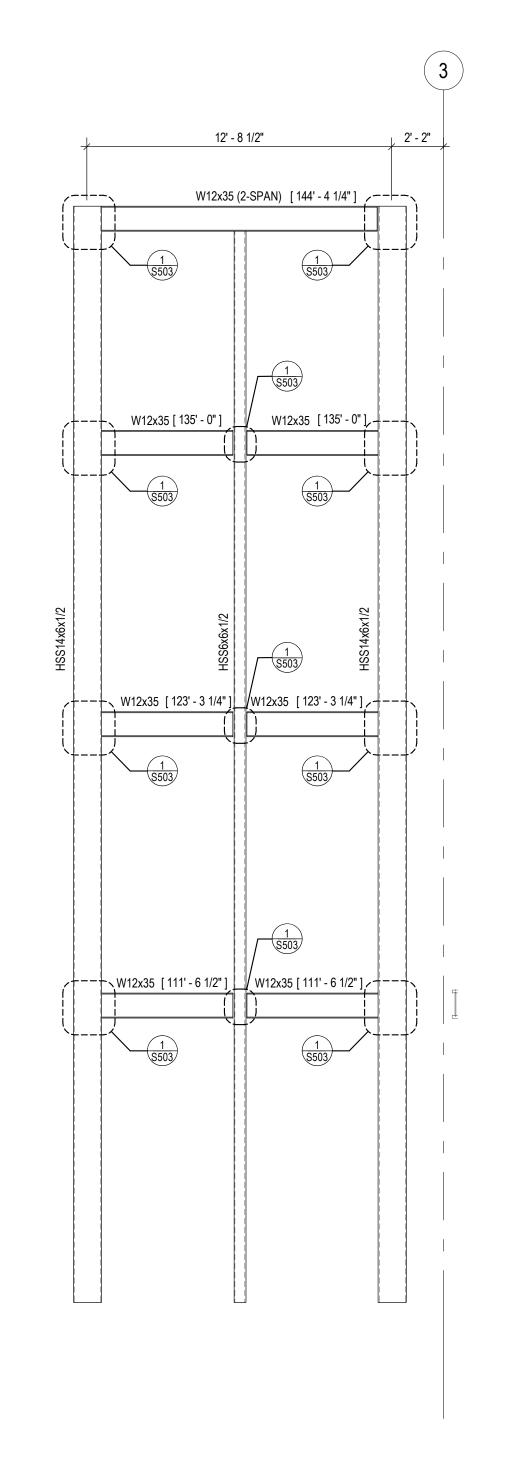
Checked By:

Project Phase
PERMIT

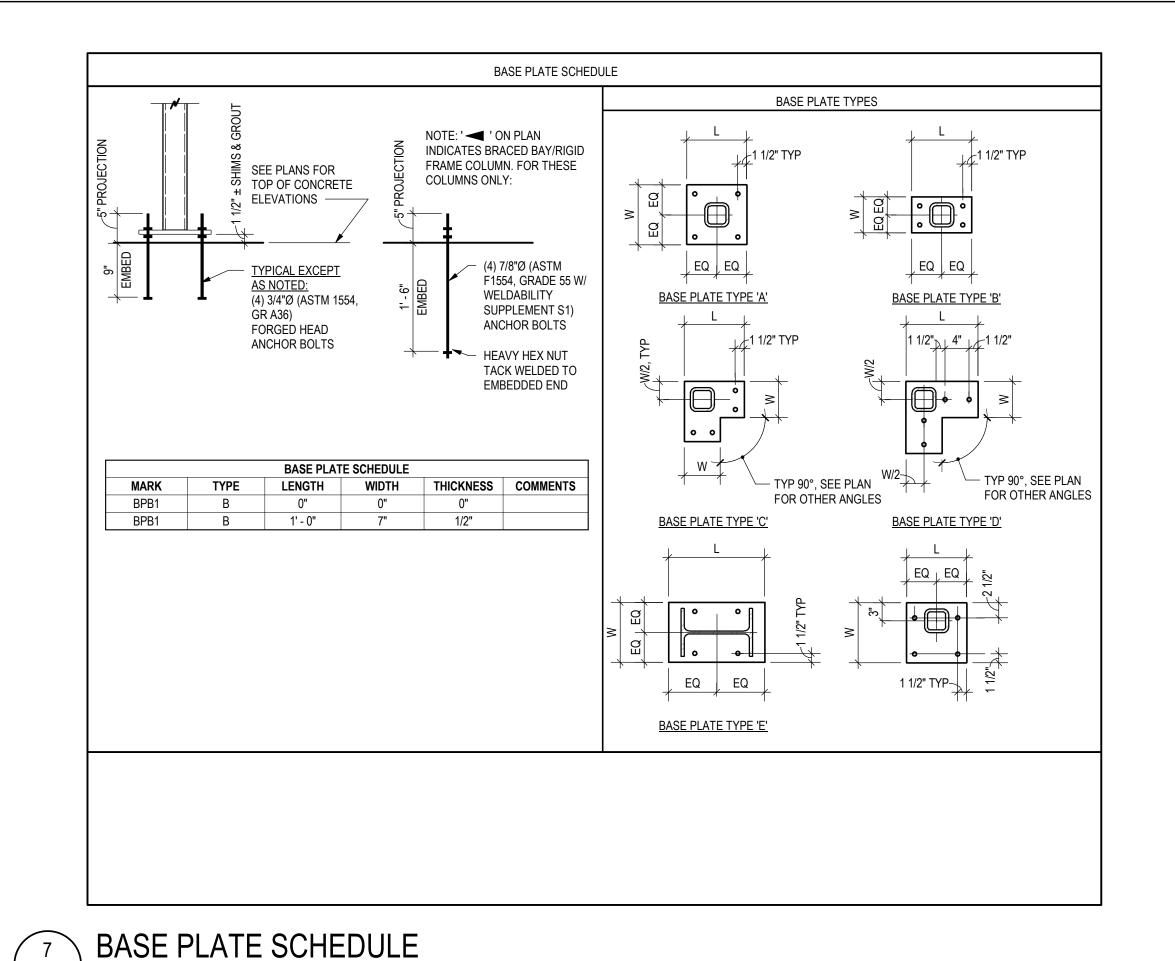
Sheet Title
LATERAL FRAME
ELEVATIONS

Sheet Number





MOMENT FRAME ELEVATION 3 MOMEN S406 1/4" = 1'-0"



REVIEWED FOR CODE COMPLIANC 04/01/2025

S500 3/4" = 1'-0"

TYP CONC GRADE BEAM W/ REINF & SCHEDULE

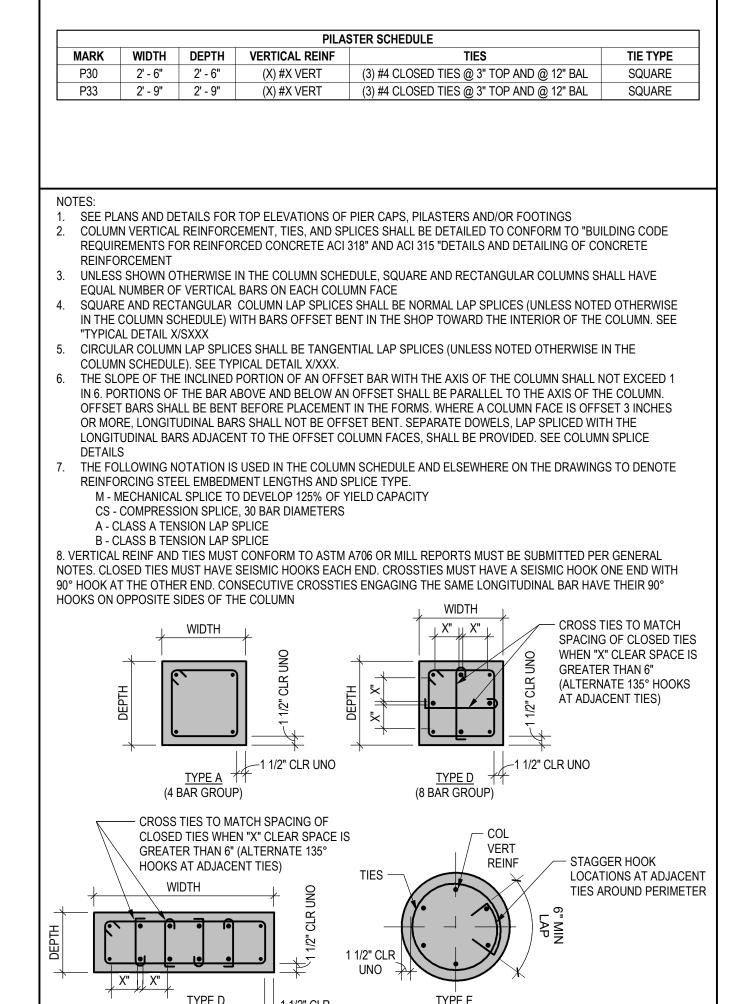
COLUMN SCHEDULE TYPICAL COLUMN MARKS: HSS COLUMN WALL THICKNESS IN 16ths OF AN INCH (EXAMPLE: '5' INDICATES 5/16" WALL THICKNESS, '10' INDICATES 5/8", ETC.. CXX OR CXXX SQUARE OR RECTANGULAR HSS COLUMN SIZE (EXAMPLE: '6' INDICATES HSS6x6, '75' INDICATES HSS7x5) STEEL COLUMN SCHEDULE STEEL COLUMN SCHEDULE HSS4x4x1/4 HSS5x5x1/4 C58 HSS5x5x1/2 C68 HSS6x6x1/2 C88 HSS8x8x1/2 C1010 HSS10x10x5/8 C1068 HSS10x6x1/2 C1468 HSS14x6x1/2 C10610 HSS10x6x5/8 C14610 HSS14x6x5/8 C141010 HSS14x10x5/8

SCHEDULE \S500/ NO SCALE

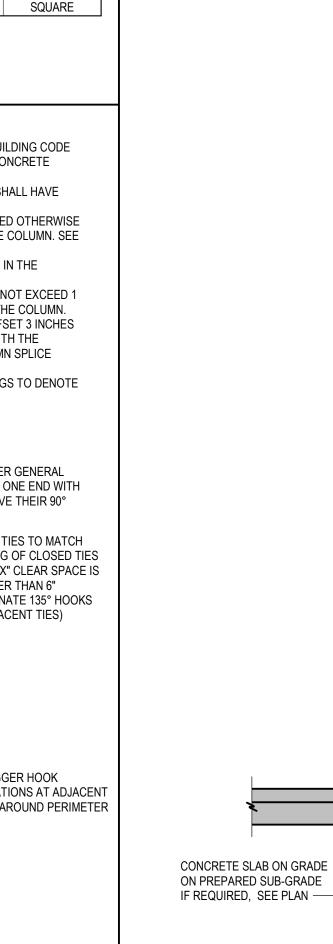
		f'c = 3000 PSI			000 PSI	f'c = 5000 PSI	
BAR SIZE	TYPE	TOP BAR	OTHER BAR	TOP BAR	OTHER BAR	TOP BAR	OTHER BA
#4	EMBED	29	22	25	19	22	17
	LAP	37	29	32	25	29	22
#5	EMBED	36	28	31	24	28	22
	LAP	47	36	40	31	36	28
#6	EMBED	43	33	37	29	33	26
	LAP	56	43	48	37	43	33
#7	EMBED	63	48	54	42	49	37
	LAP	81	63	70	54	63	49
#8	EMBED	72	55	62	48	55	43
	LAP	93	72	80	62	72	55
#9	EMBED	81	62	70	54	63	48
	LAP	105	81	91	70	81	63
#10	EMBED	91	70	79	61	70	54
	LAP	118	91	102	79	91	70
#11	EMBED	101	78	87	67	78	60
	LAP	131	101	113	87	101	78

SCHEDULE NO SCALE

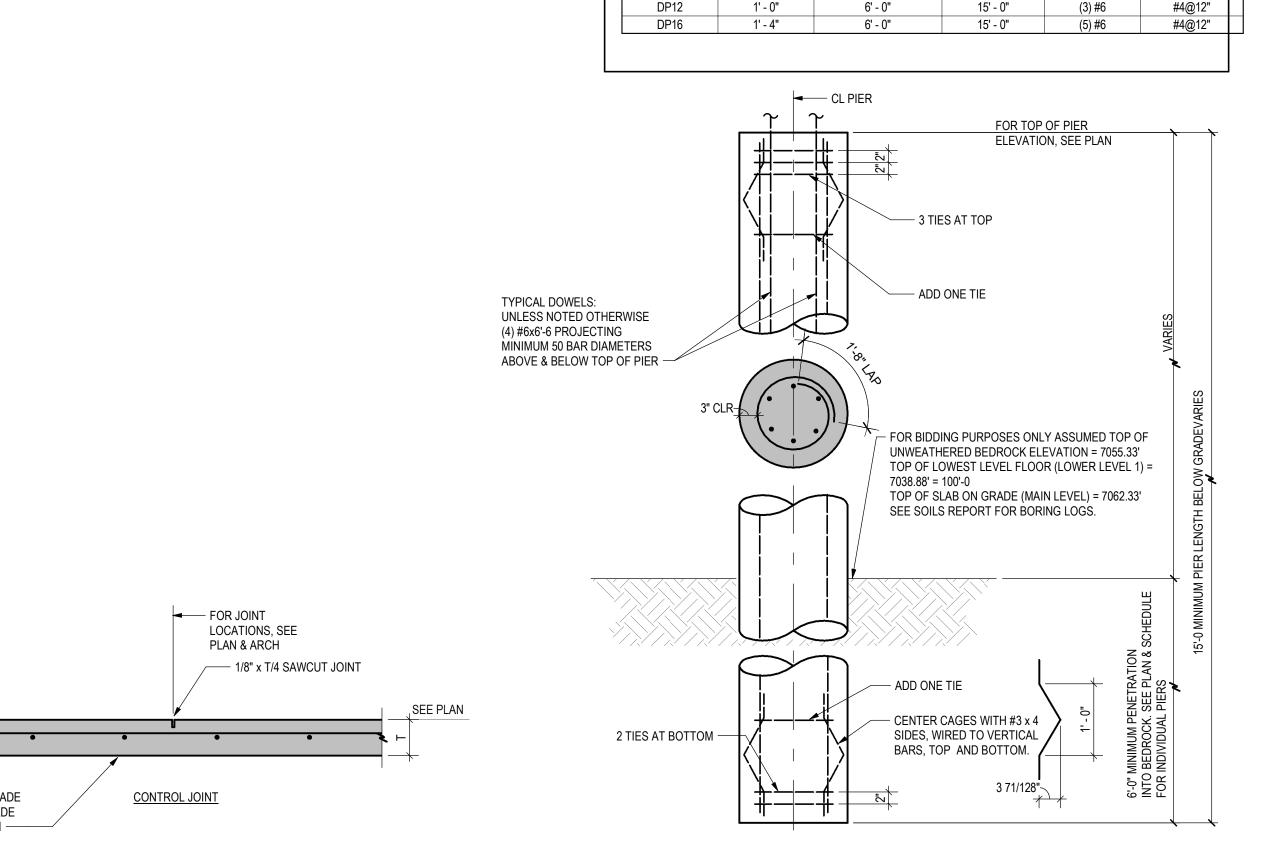
3. VALUES ARE IN INCHES



-1 1/2" CLR (6 BAR GROUP) SCHEDULE NO SCALE



S500 NO SCALE



PIER SCHEDULE

PENETRATION INTO MINIMUM PIER

BEDROCK (MINIMUM)

DIAMETER

LENGTH

REINFORCING

TIES

3 TYP JOINTS AT INTERIOR SLAB ON GRADE
S500 NO SCALE

SCHEDULE S500 NO SCALE

they cannot guarantee perfection. Communication is imperfect and every contingency cannot be anticipated Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to the architect. Failure to notify the architect compounds nisunderstanding and increases construction costs. A failure to cooperate by a simple notice to the architect shall relieve the architect from responsibility for the consequences. Changes made from the plans withou consent of the architect are unauthorized and shall relieve the architect of responsibility for all consequences arriving out of such changes. All design, documents and data prepared by Eric Smith Associates, P.C. as instruments of service shall remain property of Eric Smith Associates, P.C. and shall not be copied, changed or disclosed in any form whatsoever without first obtaining the express written consent of Eric Smith Associates, P.C. Eric Smith Associates, P.C REVISIONS Description Date

ONSULTING ENGINEER

Boulder, CO 80302 303.444.1951

www.jvajva.com

Boulder • Fort Collins • Winter Park

NOTICE: DUTY OF COOPERATION

Release of these plans contemplates further cooperation among the owner, his contractor and the

architect. Design and construction are complex. Although the architect and his consultants have

performed their services with due care and diligence

Glenwood Springs ● Denver JVA #22025

22025 Job Number: 03/25/24 **BPK/LAB Drawn By:** MES **Checked By:**

Project Phase PERMIT

Sheet Title TYPICAL CONCRETE & STEEL SCHEDULES

REVIEWED CODE COMPLIANCE 04/01/2025

REMARKS

STIFFENER TO COLUMN FLANGES, TYP

2 1/2" MAX TO FLANGE

DOUBLE COPE

ALTERNATE BEAM-TO-COLUMN

WEB EXTENDED PLATE CONNECTION (SEE NOTES 17-19)

3" MAX TO FACE

OF SUPPORTING

MEMBER

6 1/2" MAX AT W8-W24

TO FACE OF COPE —

MEMBER -

SEE NOTE 10 -

TRIM BOTTOM FLANGES

AS REQUIRED TO

MEMBER BOLTS SPECIFIED

TYPICAL BEAM-TO-BEAM CONNECTIONS

ACCOMMODATE # OF

8 1/2" MAX AT W27-W40

FACE OF SUPPORTING



architect. Design and construction are complex. Although the architect and his consultants have performed their services with due care and diligence they cannot guarantee perfection. Communication is imperfect and every contingency cannot be anticipated.
Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to the architect. Failure to notify the architect compounds misunderstanding and increases construction costs. A failure to cooperate by a simple notice to the architect shall relieve the architect from responsibility for the consequences. Changes made from the plans without consent of the architect are unauthorized and shall relieve the architect of responsibility for all consequences arriving out of such changes. All design, documents and data prepared by Eric

NSULTING ENGINEER

Boulder, CO 80302 303.444.1951 www.jvajva.com Boulder ● Fort Collins ● Winter Park Glenwood Springs ● Denver JVA #22025

NOTICE: DUTY OF COOPERATION

Release of these plans contemplates further cooperation among the owner, his contractor and the

Smith Associates, P.C. as instruments of service shall remain property of Eric Smith Associates, P.C. and shall not be copied, changed or disclosed in any form whatsoever without first obtaining the express written consent of Eric Smith Associates, P.C. Eric Smith Associates, P.C.

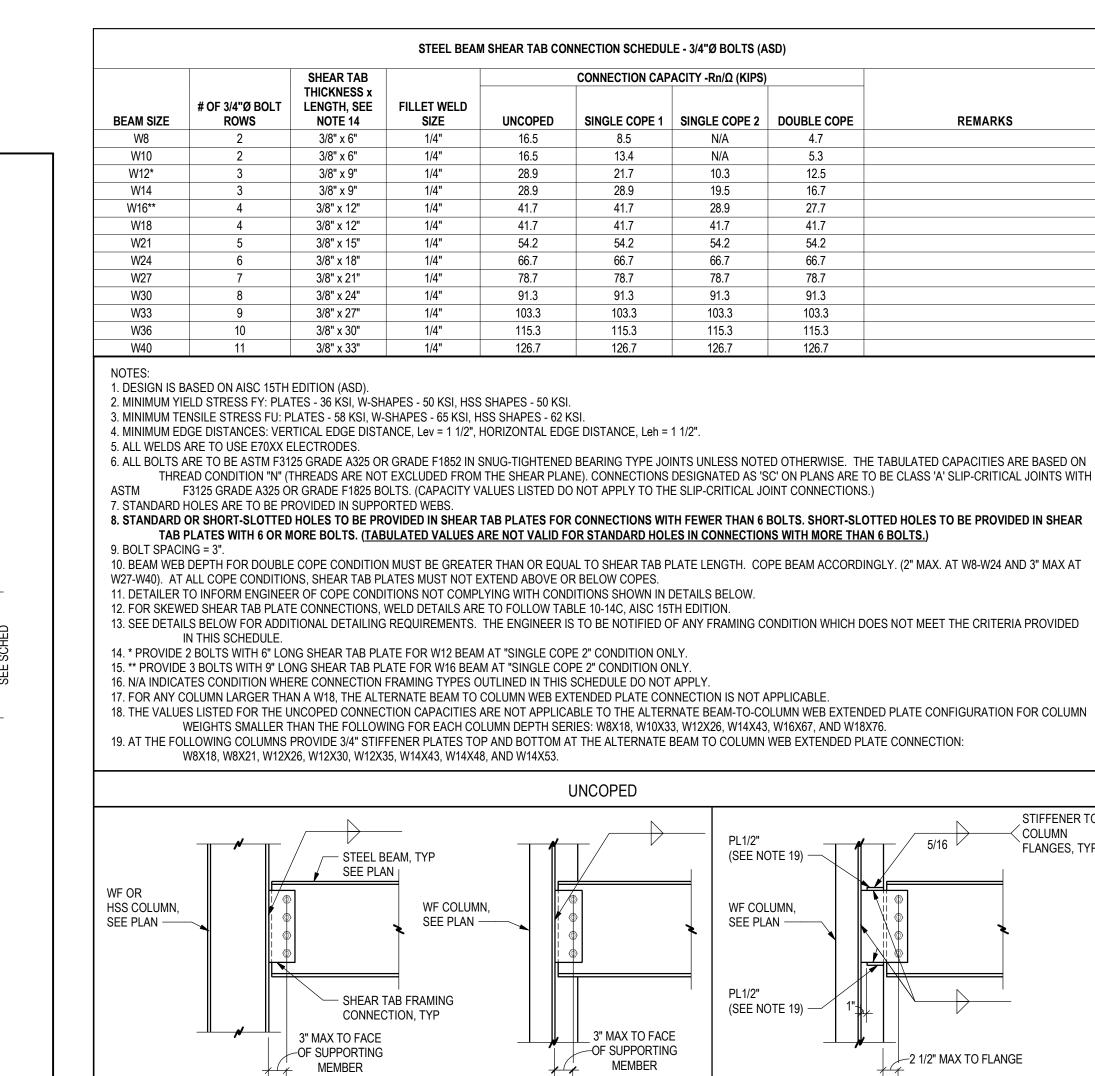
REVISIONS Description Date

22025 Job Number: 03/25/24 **BPK/LAB Drawn By: Checked By:**

Project Phase PERMIT

Sheet Title TYPICAL CONCRETE & STEEL SCHEDULES

Sheet Number



1. REVIEW AND IMPLEMENT PRE-ESTABLISHED SUPPORTING CALCULATION PACKAGE VERIFYING CONNECTION CAPACITIES PRESENTED

TYPICAL BEAM-TO-COLUMN CONNECTIONS

6 1/2" MAX AT W8-W24

TO FACE OF COPE -

MEMBER -

8 1/2" MAX AT W27-W40

FACE OF SUPPORTING

3" MAX TO FACE

OF SUPPORTING

SINGLE COPE 2

SINGLE COPE 1

3" MAX TO FACE

OF SUPPORTING

∤ (∤ MEMBER



6 1/2" MAX AT W8-W24

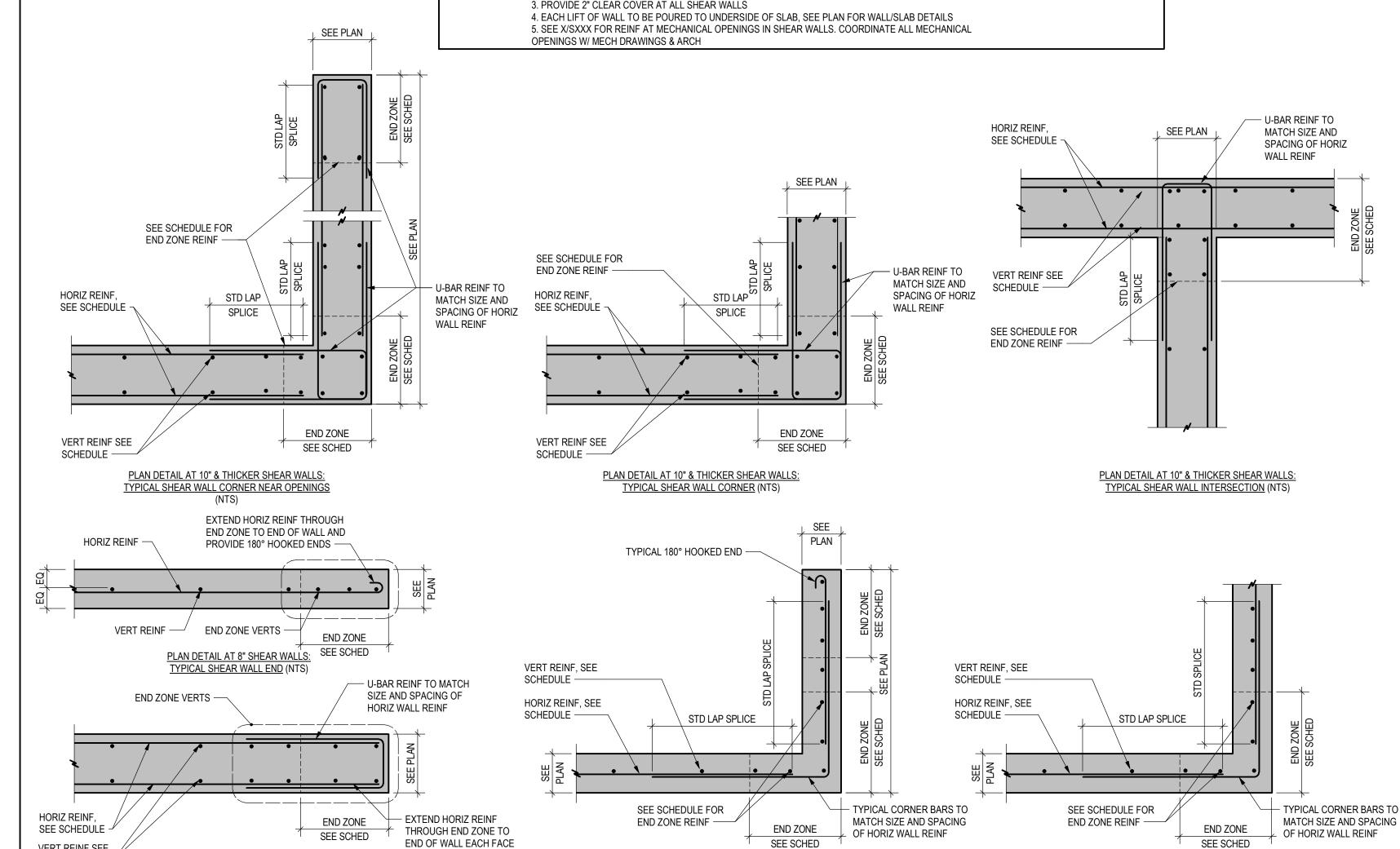
TO FACE OF COPE -

MEMBER -

COPE DEPTH: 2" MAX AT W8-W24 3" MAX AT W27-W40 —

8 1/2" MAX AT W27-W40

FACE OF SUPPORTING



PLAN DETAIL AT 8" SHEAR WALLS:

TYPICAL SHEAR WALL CORNER NEAR OPENINGS (NTS)

CONCRETE SHEAR WALL SCHEDULE

REINF

#X @ XX

2. HORIZONTAL BARS SHALL BE PLACED CLOSER TO WALL SURFACE THAN VERTICAL BARS (BOTH FACES) AT

HORIZ EXTERIOR | VERT EXTERIOR | HORIZ INTERIOR | VERT INTERIOR

RIENF

#X @ XX

1. SEE PLAN FOR WALL AND OPENING DIMENSIONS

8CSW

CONCRETE SHEAR WALL SCHEDULE

REINF

#X @ XX

TOP REINF

(2) #5

BOTTOM REINF STIRRUPS

(2) #5

END ZONE

RIENF

(X) #X

PLAN DETAIL AT 8" SHEAR WALLS:

TYPICAL SHEAR WALL CORNER (NTS)

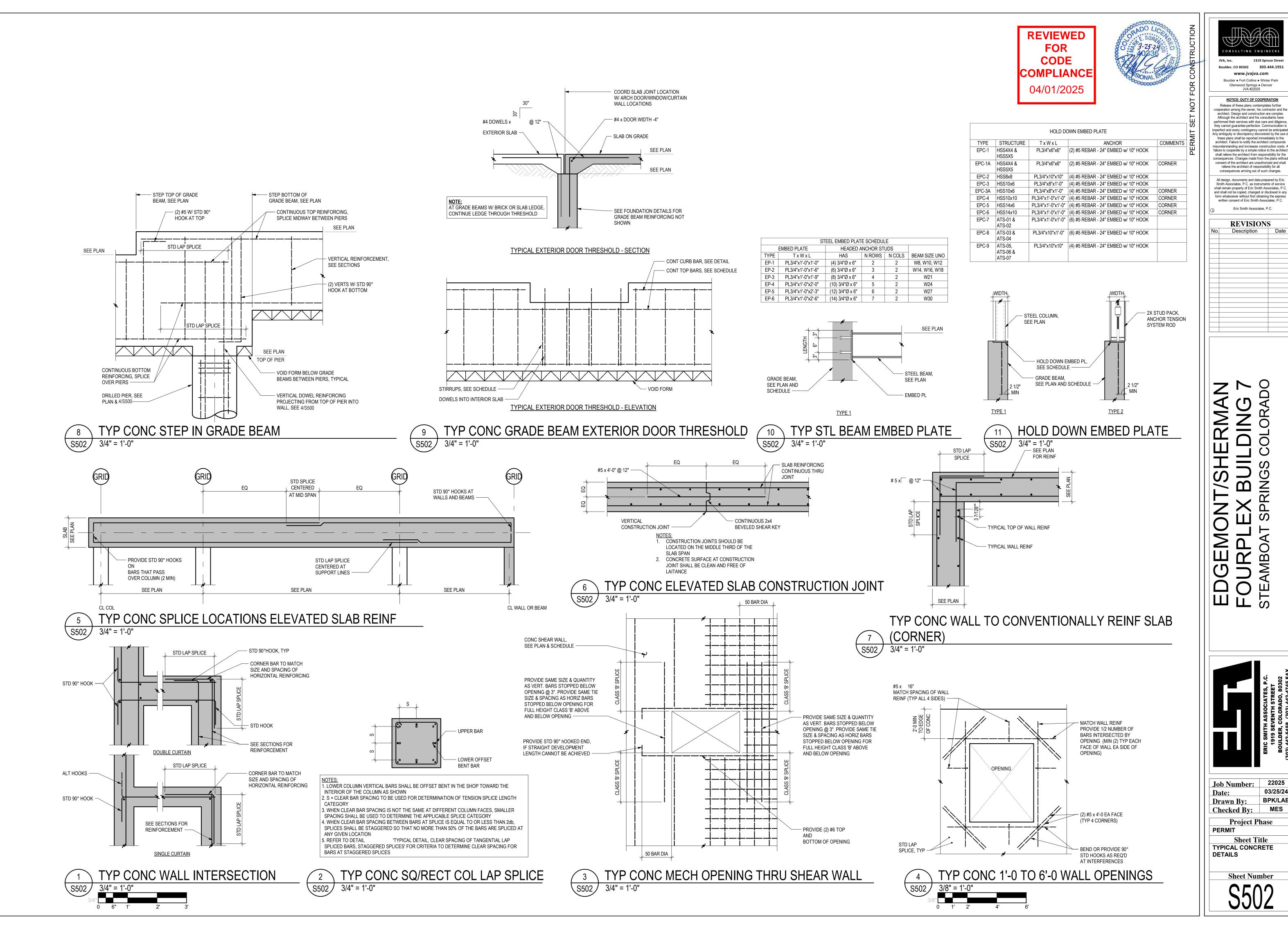


PLAN DETAIL AT 10" & THICKER SHEAR WALLS:

TYPICAL SHEAR WALL END (NTS)

VERT REINF SEE

SCHEDULE ---



22025

03/25/24



REVIEWED FOR CODE COMPLIANCE

04/01/2025

Eric Smith Associates, P.C. **REVISIONS** No. Description Date

ONSULTING ENGINEER

Boulder, CO 80302 303.444.1951 www.jvajva.com Boulder ● Fort Collins ● Winter Park Glenwood Springs ● Denver JVA #22025

NOTICE: DUTY OF COOPERATION

Release of these plans contemplates further cooperation among the owner, his contractor and the architect. Design and construction are complex.

Although the architect and his consultants have

performed their services with due care and diligence, they cannot guarantee perfection. Communication is

imperfect and every contingency cannot be anticipated. Any ambiguity or discrepancy discovered by the use of

these plans shall be reported immediately to the architect. Failure to notify the architect compounds

misunderstanding and increases construction costs. A failure to cooperate by a simple notice to the architect shall relieve the architect from responsibility for the

consequences. Changes made from the plans without consent of the architect are unauthorized and shall relieve the architect of responsibility for all

consequences arriving out of such changes.

All design, documents and data prepared by Eric

Smith Associates, P.C. as instruments of service shall remain property of Eric Smith Associates, P.C.

and shall not be copied, changed or disclosed in any form whatsoever without first obtaining the express written consent of Eric Smith Associates, P.C.

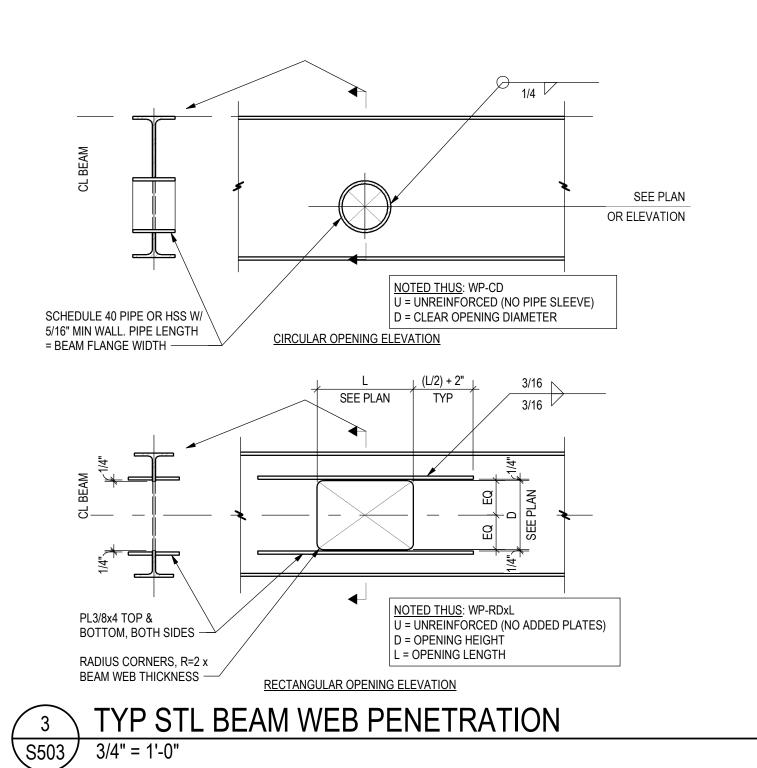
22025 Job Number: 03/25/24 **BPK/LAB Drawn By: Checked By:**

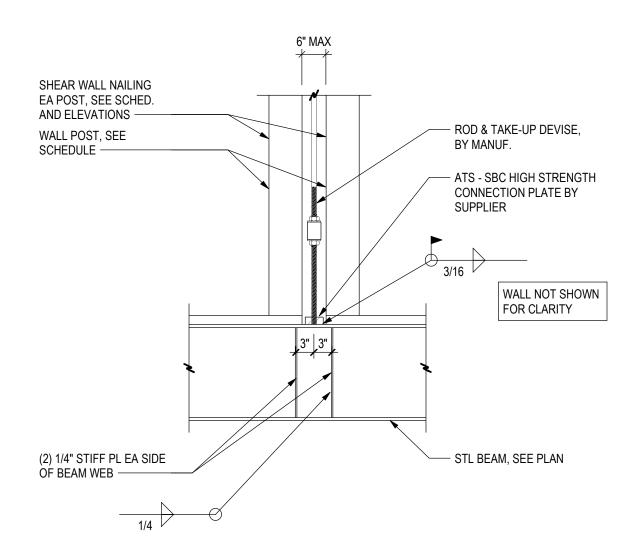
Project Phase

PERMIT

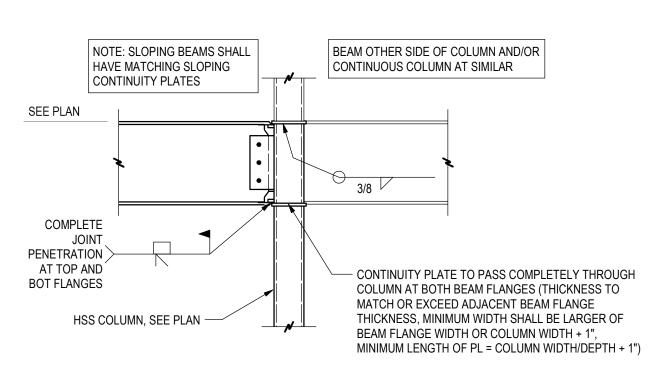
Sheet Title TYPICAL STEEL DETAILS

Sheet Number

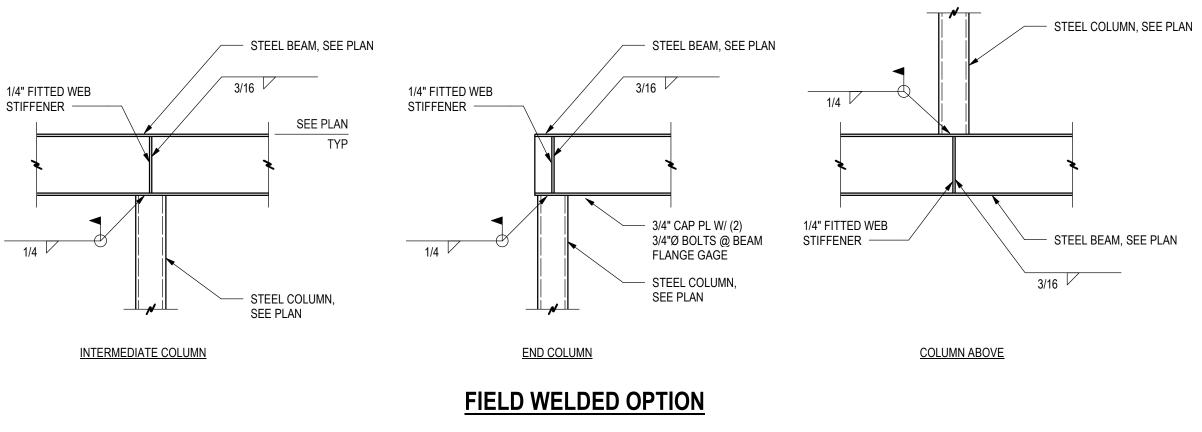








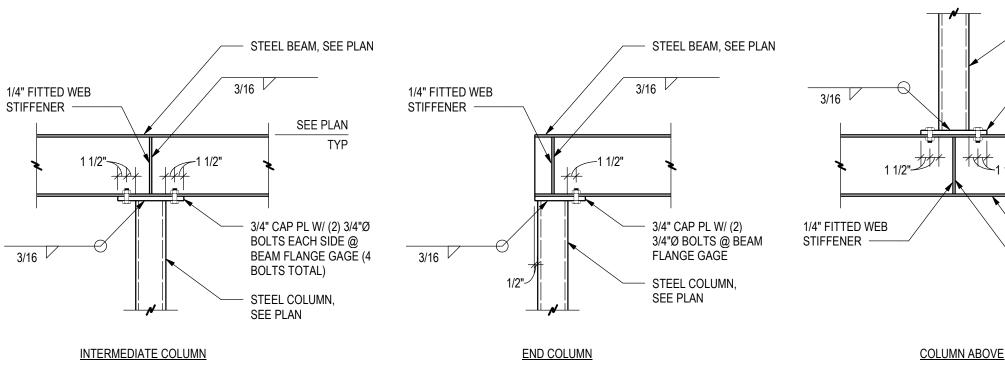




STEEL COLUMN, SEE PLAN

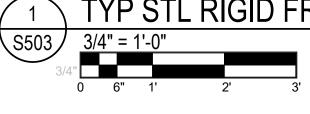
3/4" CAP PL W/ (2) 3/4"Ø BOLTS EACH SIDE @ BEAM FLANGE GAGE (4 BOLTS TOTAL)

- STEEL BEAM, SEE PLAN



BOLTED OPTION

STEEL BEAM TO COLUMN CONNECTIONS S503 3/4" = 1'-0"



HOLES IN LVL BEAMS

NO FIELD CUT

HOLES IN HATCHED

NO SC	ALE	- MINIMUM DISTANCE FROM TABLE A	MINIMUM DISTANO FROM TABLE B —	CE			_
	50				59		1 1/2" HOLE MAY BE (ANYWHERE IN WEB OUTSIDE OF HATCHE ZONE
7		L1 2 x D1 D1 MINIMUM (APPLIES TO ALL HOLES EXCEPT KNOCKOUTS)		2 2 x L2 D2	6"	 	O NOT CUT HOLES ARGER THAN 1 1/2" N CANTILEVER

DEDT	T !! 0			D	1 - ROL	JND HO	LE SIZ	Έ				L1 -	SQUA	RE OR	RECTA	NGLE	HOLE S	SIZE	
DEPTH	TJI ®	2"	3"	4"	5"	6 1/2"	7"	8 7/8"	11"	13"	2"	3"	4"	5"	6 1/2"	7"	8 7/8"	11"	13'
9 1/2"	210	1'-0"	1'-6"	2'-6"	3'-0"	5'-6"					1'-0"	2'-0"	2'-6"	4'-0"	5'-0"				
	210	1'-0"	1'-6"	2'-0"	2'-0"	3'-0"	3'-6"	6'-0"			1'-0"	1'-6"	2'-6"	3'-0"	5'-0"	5'-6"	6'-6"		
11 7/8"	360	1'-6"	2'-0"	3'-0"	3'-6"	4'-6"	5'-0"	7'-0"			1'-0"	2'-6"	3'-6"	4'-6"	6'-6"	6'-6"	7'-6"		
	560	1'-6"	2'-6"	3'-0"	4'-0"	5'-6"	6'-0"	8'-0"			2'-6"	3'-6"	4'-6"	5'-6"	7'-0"	7'-6"	8'-0"		
	210	1'-0"	1'-0"	1'-0"	1'-6"	2'-0"	2'-6"	3'-6"	6'-0"		1'-0"	1'-0"	2'-0"	2'-6"	4'-0"	4'-6"	6'-6"	8'-6"	
14"	360	1'-0"	1'-0"	1'-0"	2'-6"	3'-6"	4'-0"	5'-6"	8'-0"		1'-0"	1'-6"	2'-6"	4'-0"	6'-0"	6'-6"	8'-0"	9'-6"	
	560	1'-0"	1'-0"	2'-0"	3'-0"	4'-6"	5'-0"	6'-6"	9'-0"		1'-0"	3'-0"	4'-0"	5'-0"	7'-0"	7'-6"	9'-0"	10'-0"	
	210	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	2'-6"	3'-6"	6'-0"	1'-0"	1'-0"	1'-0"	2'-0"	3'-0"	3'-6"	6'-6"	8'-0"	11'-
16"	360	1'-0"	1'-0"	1'-0"	1'-0"	2'-6"	2'-6"	4'-6"	6'-6"	9'-0"	1'-0"	1'-0"	1'-6"	3'-0"	5'-0"	5'-6"	9'-0"	10'-0"	11'-
•	560	1'-0"	1'-0"	1'-0"	1'-0"	2'-6"	3'-0"	5'-0"	7'-6"	10'-0"	1'-0"	2'-0"	3'-0"	4'-6"	6'-6"	7'-0"	10'-0"	11'-0"	12'-

TABL	EB-IN	TERN	/IEDIA	ATE C	R CA	NTILI	EVEF	SUP	POR		mum dis est inter					nside face of rt			
DEDTIL	T !! 0			D	1 - ROI	JND HO	LE SIZ	Έ			L1 - SQUARE OR RECTANGLE HOLE SIZE								
DEPTH	TJI ®	2"	3"	4"	5"	6 1/2"	7"	8 7/8"	11"	13"	2"	3"	4"	5"	6 1/2"	7"	8 7/8"	11"	13"
9 1/2"	210	2'-0"	2'-6"	3'-6"	5'-0"	8'-0"					2'-0"	3'-0"	4'-0"	6'-6"	7'-6"				
	210	1'-0"	1'-0"	2'-0"	3'-0"	4'-6"	5'-0"	9'-0"			1'-0"	2'-0"	3'-0"	4'-6"	8'-0"	8'-0"	10'-0"		
11 7/8"	360	2'-0"	3'-0"	4'-0"	5'-6"	7'-0"	7'-6"	11'-0"			2'-0"	3'-6"	5'-0"	7'-0"	9'-6"	9'-6"	11'-0"		
	560	1'-6"	3'-0"	4'-6"	5'-6"	8'-0"	8'-6"	12'-0"			3'-0"	4'-6"	6'-0"	8'-0"	10'-6"	11'-0"	12'-0"		
	210	1'-0"	1'-0"	1'-0"	1'-0"	2'-6"	3'-0"	5'-6"	9'-6"		1'-0"	1'-0"	2'-0"	3'-6"	6'-0"	7'-0"	10'-0"	13'-0"	
14"	360	1'-0"	1'-0"	2'-0"	3'-6"	5'-6"	6'-0"	8'-6"	12'-6"		1'-0"	2'-0"	4'-0"	5'-6"	9'-0"	10'-0"	12'-0"	14'-0"	
	560	1'-0"	1'-0"	1'-6"	3'-6"	5'-6"	6'-6"	9'-6"	13'-6"		1'-0"	3'-0"	5'-0"	7'-0"	10'-0"	11'-0"	13'-6"	15'-0"	
	210	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	3'-6"	6'-0"	10'-0"	1'-0"	1'-0"	1'-0"	1'-6"	4'-6"	5'-6"	10'-0"	12'-6"	16'-0"
16"	360	1'-0"	1'-0"	1'-0"	1'-0"	3'-0"	4'-0"	6'-6"	10'-0"	13'-6"	1'-0"	1'-0"	2'-0"	4'-0"	7'-6"	8'-6"	13'-0"	14'-6"	17'-0"
	560	1'-0"	1'-0"	1'-0"	1'-0"	2'-6"	3'-6"	7'-0"	11'-0"	15'-0"	1'-0"	1'-0"	3'-6"	5'-6"	9'-0"	10'-0"	14'-6"	16'-0"	18'-0"

• HOLES MAY BE LOCATED VERTICALLY ANYWHERE WITHIN THE WEB. LEAVE 1/8" OF WEB (MINIMUM) AT TOP AND BOTTOM OF HOLE. • KNOCKOUTS ARE LOCATED IN WEB AT APPROXIMATELY 12" ON-CENTER, THEY DO NOT AFFECT HOLE PLACEMENT. • FOR SIMPLE SPAN (5'-0 MIN) UNIFORMLY LOADED JOISTS MEETING THE REQUIREMENTS OF THIS GUIDE, ONE MAXIMUM SIZE ROUND HOLE MAY BE LOCATED AT THE CENTER OF THE JOIST SPAN **PROVIDED THAT NO OTHER HOLES OCCUR IN THE JOIST.** • DISTANCES ARE BASED ON THE MAXIMUM UNIFORM LOADS SHOWN IN THIS GUIDE. FOR OTHER LOAD CONDITIONS OR HOLE CONFIGURATIONS, USE FORTE® SOFTWARE OR CONTACT YOUR WEYERHAEUSER REPRESENTATIVE.

TYP I-JOIST PENETRATION SCHEDULE

PENNYWEIGHT	TYPE	DIAMETER	LENGTH
8d	COMMON	0.131"	2-1/2"
8d	BOX	0.113"	2-1/2"
8d	SINKER	0.113"	2-3/8"
8d	GUN	0.113"	2-3/8"
10d	COMMON	0.148"	3"
10d	BOX	0.128"	3"
10d	SINKER	0.120"	2-7/8"
10d	GUN	0.131"	3"
12d	COMMON	0.148"	3-1/4"
12d	BOX	0.128"	3-1/4"
12d	SINKER	0.135"	3-1/8"
12d	GUN	0.131"	3-1/4"
16d	COMMON	0.162"	3-1/2"
16d	BOX	0.135"	3-1/2"
16d	SINKER	0.148"	3-1/4"

$\overline{1}$	TYP WOOD NAILING SCHEDULE
\S504/	NO SCALE

WOOD	FRAMING FASTENING SCHE	DULE	
CONNECTION	FASTENING	LOCATION	
1. JOIST/RAFTER/BLOCKING TO BEARING SUPPORT	(3) 8d COMMON [OR] (3) 12d SINKER	TOENAIL	
2. BRIDGING/BLOCKING TO JOIST	(2) 8d COMMON [OR] (2) 12d SINKER	TOENAIL, EACH END	
6. SOLE PLATE TO JOIST OR BLOCKING	16d COMMON @ 16" [OR] 12d SINKER @ 8"	FACE NAIL	
7. STUD TO TOP AND SOLE PLATE	(2) 16d COMMON [OR] (3) 12d SINKER	END NAIL	
8. STUD TO SOLE PLATE	(4) 8d COMMON [OR] (4) 12d SINKER	TOENAIL	
9. DOUBLE STUDS AND BUILT-UP CORNER STUDS	16d COMMON @ 24" [OR] 12d SINKER @ 8"	FACE NAIL, EACH STUD	
10. DOUBLE TOP PLATES	16d COMMON @ 16" [OR] 12d SINKER @ 12"	TYPICAL FACE NAIL	
	(8) 16d COMMON [OR] (12) 12d SINKER	LAP SPLICE FACE NAIL	
12. RIM JOIST AND JOIST BLOCKING TO TOP PLATE	8d COMMON @ 6" [OR] 12d SINKER @ 6"	TOENAIL	
13. TOP PLATE INTERSECTION	(2) 16d COMMON [OR] (3) 12d SINKER	FACE NAIL	
14. BUILT UP HEADER	16d COMMON @ 16" [OR] 12d SINKER @ 12"	FACE NAIL ALONG EACH EDGE, EACH 2x	
16. HEADER TO KING STUD	(4) 8d COMMON" [OR] (4) 12d SINKER	TOENAIL	

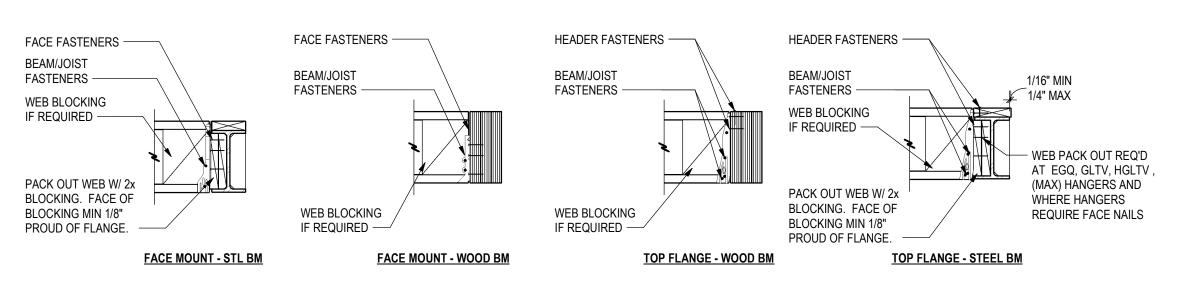
	. REFER TO IBC TABLE 2304.9.1 FOR MORE INFORMATION. . ALL FASTENINGS ARE TYPICAL UNLESS NOTED OTHERWISE.	
2	Y TYP WOOD FASTENING SCHEE	DULE
S50 ₄	NO SCALE	



REVIEWED FOR CODE COMPLIANCE 04/01/2025

TYPICAL FRAMING					TVDIOAL EDAM	NO HANOERO			
HANGERS			FACE MOUNT HANGE	De	TYPICAL FRAMI	NG HANGERS	TOP FLANGE HANGE	-De	
			FACE MOUNT HANGE		NEDO		TOP FLANGE HANGE		NEDO
					ENERS		2.2.2.		NERS
BEAM/JOIST	Beam Type	MODEL	CAPACITY	FACE	BEAM/JOIST	MODEL	CAPACITY	HEADER	BEAM/JOIST
(3) 2x12	Wood Beam	LUS210-3	1245 lbs (UPLIFT) / 1575 lbs (DOWN)	(8) 0.162 x 3 1/2"	(6) 0.162 x 3 1/2"	HU212-3TF	1420 lbs (UPLIFT) / 4590 lbs (DOWN)	(16) 0.162 x 3 1/2"	(6) 0.162 x 3 1/2"
2x8 RAFTERS	Wood Beam	LUS28	1165 lbs (UPLIFT) / 1100 lbs (DOWN)	(6) 0.162 x 3"	(4) 0.162 x 3"	HU28TF	700 lbs (UPLIFT) / 2910 lbs (DOWN)	(10) 0.162 x 3 1/2"	(4) 0.148 x 1 1/2"
6x10	Wood Beam	HU610	1550 lbs (UPLIFT) / 2305 lbs (DOWN)	(18) 0.162 x 3 1/2"	(8) 0.162 x 3 1/2"	HGLT6 H= 9 1/8"	2450 lbs (UPLIFT) / 10720 lbs (DOWN)	(18) N54A	(6) N54A
8x14	Wood Beam	HU814	2325 lbs (UPLIFT) / 3075 lbs (DOWN)	(24) 0.162 x 3 1/2"	(12) 0.162 x 3 1/2"	HB7.50X H= 13 1/16"	2075 lbs (UPLIFT) / 5395 lbs (DOWN)	(22) 0.162 x 3 1/2"	(10) 0.162 x 3 1/2"
14 TJI 210	Wood Beam	IUS2.06/14	70 lbs (UPLIFT) / 1220 lbs (DOWN)	(12) 0.148 x 3"	N/A	ITS2.06/14	120 lbs (UPLIFT) / 1260 lbs (DOWN)	(6) 0.148 x 3"	N/A
14 TJI 360	Wood Beam	IUS2.37/14 (MAX)	70 lbs (UPLIFT) / 1220 lbs (DOWN)	(14) 0.148 x 3"	N/A	ITS2.37/14	120 lbs (UPLIFT) / 1260 lbs (DOWN)	(6) 0.148 x 3"	N/A
14 TJI 560	Wood Beam	IUS3.56/14 (MAX)	70 lbs (UPLIFT) / 1425 lbs (DOWN)	(14) 0.148 x 3"	N/A	ITS3.56/11.88	120 lbs (UPLIFT) / 1260 lbs (DOWN)	(6) 0.148 x 3"	N/A
(2) 14" LVL	Wood Beam	HUCQ412-SDS	2265 lbs (UPLIFT) / 5045 lbs (DOWN)	(14) 1/4 x 2 1/2" SDS	(6) 1/4" x 2 1/2" SDS	ITS3.56/14	120 lbs (UPLIFT) / 1550 lbs (DOWN)	(6) 0.148 x 3"	N/A
(3) 9 1/2" LVL	Wood Beam	HU610	1795 lbs (UPLIFT) / 2680 lbs (DOWN)	(18) 0.162 x 3 1/2"	(8) 0.162 x 3 1/2"	HB5.5/9.25	2075 lbs (UPLIFT) / 5815 lbs (DOWN)	(22) 0.162 x 3 1/2"	(10) 0.162 x 3 1/2"
(3) 14" LVL	Wood Beam	HGUS5.50/14	5360 lbs (UPLIFT) / 13735 lbs (DOWN)	(66) 0.162 x 3 1/2"	(22) 0.162 x 3 1/2"	HB5.50/14	2075 lbs (UPLIFT) /6595 (DOWN)	(22) 0.162 x 3 1/2"	(10) 0.162 x 3 1/2"
(3) 18" LVL	Wood Beam	HHUS5.50/10	3565 lbs (UPLIFT) / 5635 (DOWN)	(30) 0.162 x 3 1/2"	(10) 0.162 x 3 1/2"	HB5.50/18	2075 lbs (UPLIFT) / 5815 lbs (DOWN)	(22) 0.162 x 3 1/2"	(10) 0.162 x 3 1/2"
7 1/4" LVL	Wood Beam	HU7 (MAX)	1515 lbs (UPLIFT) /2380 lbs (DOWN)	(16) 0.162 x 3 1/2"	(6) 0.148 x1 1/2"	BA1.81/7.25 (MAX)	1215 lbs (UPLIFT) /4715 lbs (DOWN)	(16) 0.162 x 3 1/2"	(8) 0.148 x 1 1/2"
9 1/4" LVL	Wood Beam	HU7	1515 lbs (UPLIFT) /2380 lbs (DOWN)	(16) 0.162 x 3 1/2"	(6) 0.148 x1 1/2"	BA1.81/9.25 (MAX)	1250 lbs (UPLIFT) / 4715 lbs (DOWN)	(16) 0.162 x 3 1/2"	(8) 0.148 x1 1/2"
9 1/4" LVL PWT TREATED	Wood Beam	HU7	1515 lbs (UPLIFT) /2380 lbs (DOWN)	(16) 0.162 x 3 1/2"	(6) 0.148 x1 1/2"	BA1.81/9.25 (MAX)	1250 lbs (UPLIFT) / 4715 lbs (DOWN)	(16) 0.162 x 3 1/2"	(8) 0.148 x1 1/2"
11 7/8" LVL	Wood Beam	HU11	1795 lbs (UPLIFT) / 4465 lbs (DOWN)	(30) 0.162 x 3 1/2"	(10) 0.148 x 1 1/2"	ITS1.81/11.88	120 lbs (UPLIFT) / 1550 lbs (DOWN)	(6) 0.148 x 3"	N/A
11 7/8" LVL PWT TREATED	Wood Beam	HU11	1795 lbs (UPLIFT) / 4465 lbs (DOWN)	(30) 0.162 x 3 1/2"	(10) 0.148 x 1 1/2"	ITS1.81/11.88	120 lbs (UPLIFT) / 1550 lbs (DOWN)	(6) 0.148 x 3"	N/A
GL8 3/4x13.5	Wood Beam	XXXXXXX	XXXX lbs (UPLIFT) / 9335 (DOWN)	XXXXX	XXXXX	N/A	N/A	N/A	N/A

TYPICAL ROOF/EXTERIOR DECK FRAMING HANGERS				TYPICAL	ROOF/EXTERIOR I	DECK FRAMING HAI	NGERS		
			FACE MOUNT HANGE				TOP FLANGE HANGI		
					ENERS				ENERS
BEAM/JOIST	Beam Type	MODEL	CAPACITY	FACE	BEAM/JOIST	MODEL	CAPACITY	HEADER	BEAM/JOIST
(3) 2x12	Wood Beam	LUS210-3	1245 lbs (UPLIFT) / 1785 lbs (DOWN)	(8) 0.162 x 3 1/2"	(6) 0.162 x 3 1/2"	HU212-3TF	1420 lbs (UPLIFT) / 4590 lbs (DOWN)	(16) 0.162 x 3 1/2"	(6) 0.162 x 3 1/2"
2x8 RAFTERS	Wood Beam	LUS28	1165 lbs (UPLIFT) / 1260 lbs (DOWN)	(6) 0.162 x 3"	(4) 0.162 x 3"	HU28TF	700 lbs (UPLIFT) / 2970 lbs (DOWN)	(10) 0.162 x 3 1/2"	(4) 0.148 x 1 1/2"
6x10	Wood Beam	HU610	1550 lbs (UPLIFT) / 2605 lbs (DOWN)	(18) 0.162 x 3 1/2"	(8) 0.162 x 3 1/2"	HGLT6 H= 9 1/8"	2450 lbs (UPLIFT) / 10720 lbs (DOWN)	(18) N54A	(6) N54A
8x14	Wood Beam	HU814	2325 lbs (UPLIFT) / 3470 lbs (DOWN)	(24) 0.162 x 3 1/2"	(12) 0.162 x 3 1/2"	HB7.50X H= 13 1/16"	2075 lbs (UPLIFT) / 5395 lbs (DOWN)	(22) 0.162 x 3 1/2"	(10) 0.162 x 3 1/2"
14 TJI 210	Wood Beam	HU2.1/11	915 lbs (UPLIFT) / 2315 lbs (DOWN)	(16) 0.162 x 3 1/2"	(6) 0.148 x 1 1/2"	BA2.1/14 (MAX)	1250 lbs (UPLIFT) / 1495 lbs (DOWN)	(16) 0.162 x 3 1/2"	(8) 0.148 x 1 1/2"
14 TJI 360	Wood Beam	HU3514	1795 lbs (UPLIFT) / 3470 lbs (DOWN)	(24) 0.162 x 3 1/2"	(12) 0.148 x 1 1/2"	BA2.37/14 (MAX)	1250 lbs (UPLIFT) / 1495 lbs (DOWN)	(16) 0.162 x 3 1/2"	(8) 0.148 x 1 1/2"
14 TJI 560	Wood Beam	HU414	1795 lbs (UPLIFT) / 3470 lbs (DOWN)	(24) 0.162 x 3 1/2"	(12) 0.148 x 1 1/2"	BA3.56/14 (MAX)	1250 lbs (UPLIFT) / 1495 lbs (DOWN)	(16) 0.162 x 3 1/2"	(8) 0.148 x 1 1/2"
(2) 14" LVL	Wood Beam	HUCQ412-SDS	2265 lbs (UPLIFT) / 5045 lbs (DOWN)	(14) 1/4 x 2 1/2" SDS	(6) 1/4" x 2 1/2" SDS	BA3.56/14 (MAX)	1250 lbs (UPLIFT) / 4715 lbs (DOWN)	(16) 0.162 x 3 1/2"	(8) 0.148 x 1 1/2"
(3) 9 1/2" LVL	Wood Beam	HU610	1795 lbs (UPLIFT) / 3020 lbs (DOWN)	(18) 0.162 x 3 1/2"	(8) 0.162 x 3 1/2"	HB5.5/9.25	2075 lbs (UPLIFT) / 5815 lbs (DOWN)	(22) 0.162 x 3 1/2"	(10) 0.162 x 3 1/2"
(3) 14" LVL	Wood Beam	HGUS5.50/14	5360 lbs (UPLIFT) / 14360 lbs (DOWN)	(66) 0.162 x 3 1/2"	(22) 0.162 x 3 1/2"	EGQ5.37-SDS H=16	7670 lbs (UPLIFT) / 19800 lbs (DOWN)	(28) 1/4 x 3 SDS	(12) 1/4 x 3 SDS
(3) 18" LVL	Wood Beam	HHUS5.50/10	3565 lbs (UPLIFT) / 6380 (DOWN)	(30) 0.162 x 3 1/2"	(10) 0.162 x 3 1/2"	EGQ5.37-SDS H=18	7670 lbs (UPLIFT) / 19800 lbs (DOWN)	(28) 1/4 x 3 SDS	(12) 1/4 x 3 SDS
7 1/4" LVL	Wood Beam	HU7 (MAX)	1515 lbs (UPLIFT) /2380 lbs (DOWN)	(16) 0.162 x 3 1/2"	(6) 0.148 x1 1/2"	BA1.81/7.25 (MAX)	1250lbs (UPLIFT) / 1495 lbs (DOWN)	(16) 0.162 x 3 1/2"	(8) 0.148 x1 1/2"
9 1/4" LVL	Wood Beam	HU7	1515 lbs (UPLIFT) /2380 lbs (DOWN)	(16) 0.162 x 3 1/2"	(6) 0.148 x1 1/2"	BA1.81/9.25 (MAX)	1250 lbs (UPLIFT) / 4715 lbs (DOWN)	(16) 0.162 x 3 1/2"	(8) 0.148 x1 1/2"
9 1/4" LVL PWT TREATED	Wood Beam	HU7	1515 lbs (UPLIFT) /2380 lbs (DOWN)	(16) 0.162 x 3 1/2"	(6) 0.148 x1 1/2"	BA1.81/9.25 (MAX)	1250 lbs (UPLIFT) / 4715 lbs (DOWN)	(16) 0.162 x 3 1/2"	(8) 0.148 x1 1/2"
11 7/8" LVL	Wood Beam	HU11	1795 lbs (UPLIFT) / 4465 lbs (DOWN)	(30) 0.162 x 3 1/2"	(10) 0.148 x 1 1/2"	BA1.81/11.88 (MAX)	1250 lbs (UPLIFT) / 4714 lbs (DOWN)	(16) 0.162 x 3 1/2"	(8) 0.148 x 1 1/2"
11 7/8" LVL PWT TREATED	Wood Beam	HU11	1795 lbs (UPLIFT) / 4465 lbs (DOWN)	(30) 0.162 x 3 1/2"	(10) 0.148 x 1 1/2"	BA1.81/11.88 (MAX)	1250 lbs (UPLIFT) / 4714 lbs (DOWN)	(16) 0.162 x 3 1/2"	(8) 0.148 x 1 1/2"
GL8 3/4x13.5	Wood Beam	XXXXXXX	9460 lbs (UPLIFT) / 13160 (DOWN)	XXXXX	XXXXX	HGLT9	2450 lbs (UPLIFT) / 10720 lbs (DOWN)	(18) N54A	(6) N54A



1. ALL HANGERS SHALL HAVE ALL NAIL HOLES FILLED.

2. HANGERS ATTACHED TO TREATED LUMBER SHALL BE Z-MAX (G185). 3. ALL HANGERS IN SCHEDULE ARE TYPICAL UNLESS NOTED OTHERWISE ON PLAN OR IN SECTION.

4. SUBSTITUTIONS ARE ACCEPTABLE, HOWEVER CAPACITY MUST BE EQUAL TO OR GREATER THAN HANGER CAPACITY IN SCHEDULE. 5. CAPACITIES INDICATED DO NOT TAKE INTO ACCOUNT REDUCTIONS FOR SKEW, SLOPE, GUN/TICO NAILS, ETC.

6. CAPACITIES FOR COMMODITY LUMBER IS FOR DOUGLAS FIR LARCH.

7. $\,$ AT FLUSH STEEL BEAMS ALL HANGER VALUES ARE BASED ON A SINGLE 2x DOUGLAS FIR LARCH NAILER PL. 8. EGQ, GLTV, & HGLTV, REQUIRE WEB BLOCKING AT STEEL BEAMS IN ORDER TO INSTALL FACE NAILS TO ACHIEVE UPLIFT NOTED CAPACITIES.

9. SOME FACE MOUNT AND TOP FLANGE HANGERS REQUIRE WEB BLOCKING FOR I-JOISTS, SEE MANUFACTURER INSTALLATION REQUIRMENTS. 10. ALL ROOF & EXTERIOR DECK I-JOIST HANGERS REQUIRE WEB BLOCKING TO ACHIEVE (MAX) UPLIFT CAPACITY.

TYP WOOD BEAM/JOIST HANGER SCHEDULE

ONSULTING ENGINEER Boulder, CO 80302 303.444.1951 www.jvajva.com Boulder ● Fort Collins ● Winter Park Glenwood Springs

◆ Denver

JVA #22025

NOTICE: DUTY OF COOPERATION Release of these plans contemplates further cooperation among the owner, his contractor and the architect. Design and construction are complex.
Although the architect and his consultants have performed their services with due care and diligence, they cannot guarantee perfection. Communication is imperfect and every contingency cannot be anticipated. Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to the architect. Failure to notify the architect compounds misunderstanding and increases construction costs. A failure to cooperate by a simple notice to the architect shall relieve the architect from responsibility for the consequences. Changes made from the plans without consent of the architect are unauthorized and shall relieve the architect of responsibility for all consequences arriving out of such changes.

All design, documents and data prepared by Eric Smith Associates, P.C. as instruments of service shall remain property of Eric Smith Associates, P.C. and shall not be copied, changed or disclosed in any form whatsoever without first obtaining the express written consent of Eric Smith Associates, P.C. Eric Smith Associates, P.C.

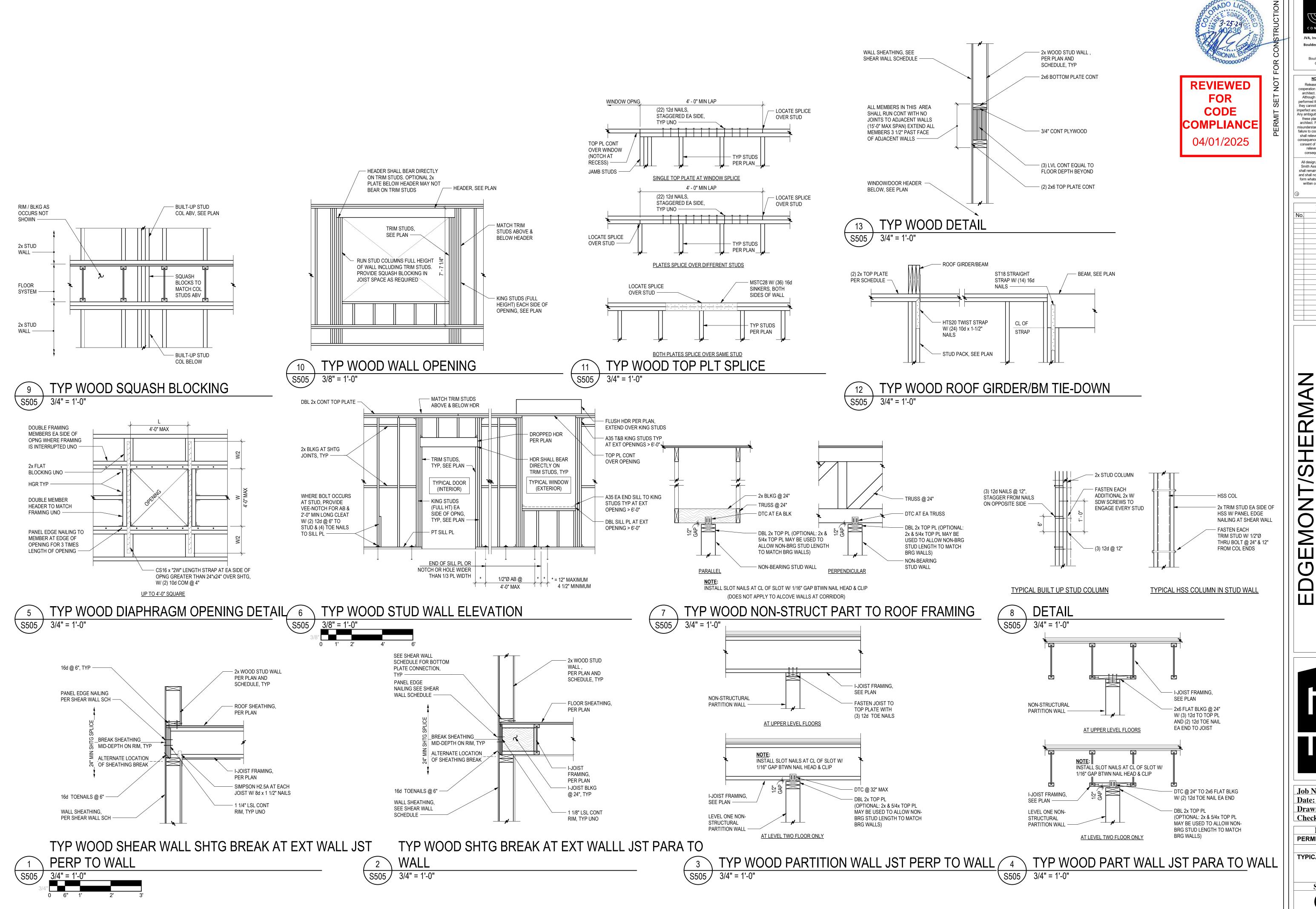
REVISIONS						
No.	Description	Date				
		-				
		+				
		+				



Job Number: 03/25/24 BPK/LAB **Drawn By: Checked By:**

Project Phase PERMIT

Sheet Title TYPICAL WOOD SCHEDULES



JVA, Inc. 1319 Spruce Street
Boulder, CO 80302 303.444.1951
www.jvajva.com

JVA, Inc. 1319 Spruce Stree

Boulder, CO 80302 303.444.1952

www.jvajva.com

Boulder • Fort Collins • Winter Park
Glenwood Springs • Denver
JVA #22025

NOTICE: DUTY OF COOPERATION

Release of these plans contemplates further

Release of these plans contemplates further cooperation among the owner, his contractor and the architect. Design and construction are complex. Although the architect and his consultants have performed their services with due care and diligence, they cannot guarantee perfection. Communication is imperfect and every contingency cannot be anticipated Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to the architect. Failure to notify the architect compounds misunderstanding and increases construction costs. A failure to cooperate by a simple notice to the architect shall relieve the architect from responsibility for the consequences. Changes made from the plans without consent of the architect are unauthorized and shall relieve the architect of responsibility for all consequences arriving out of such changes.

All design, documents and data prepared by Eric Smith Associates, P.C. as instruments of service shall remain property of Eric Smith Associates, P.C. and shall not be copied, changed or disclosed in any form whatsoever without first obtaining the express written consent of Eric Smith Associates, P.C.

d shall not be copied, changed or disclosed in any m whatsoever without first obtaining the express written consent of Eric Smith Associates, P.C.

Eric Smith Associates, P.C.

REVISIONS

Description

Date

No. Description Date

MONT/SHERMAN PLEX BUILDING 7

ERIC SMITH ASSOCIATES, P.C.
1919 SEVENTH STREET
BOULDER, COLORADO, 80302

Job Number: 22025
Date: 03/25/24
Drawn By: BPK/LAB
Checked By: MES

Project Phase

Sheet Title
TYPICAL WOOD DETAILS

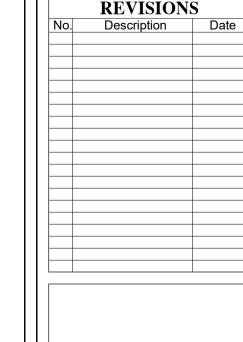
Sheet Number

S505

REVIEWED CODE COMPLIANC







ONSULTING ENGINEER

Boulder, CO 80302 303.444.1951 www.jvajva.com Boulder ● Fort Collins ● Winter Park Glenwood Springs ● Denver JVA #22025

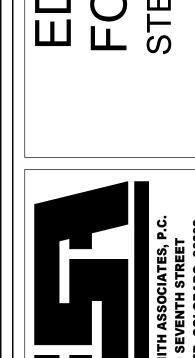
NOTICE: DUTY OF COOPERATION

Release of these plans contemplates further cooperation among the owner, his contractor and the architect. Design and construction are complex. Although the architect and his consultants have performed their services with due care and diligence. they cannot guarantee perfection. Communication is

imperfect and every contingency cannot be anticipated.
Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to the architect. Failure to notify the architect compounds

misunderstanding and increases construction costs. A failure to cooperate by a simple notice to the architect shall relieve the architect from responsibility for the consequences. Changes made from the plans without consent of the architect are unauthorized and shall relieve the architect of responsibility for all consequences arriving out of such changes. All design, documents and data prepared by Eric Smith Associates, P.C. as instruments of service shall remain property of Eric Smith Associates, P.C. and shall not be copied, changed or disclosed in any form whatsoever without first obtaining the express written consent of Eric Smith Associates, P.C. Eric Smith Associates, P.C.

GEMO

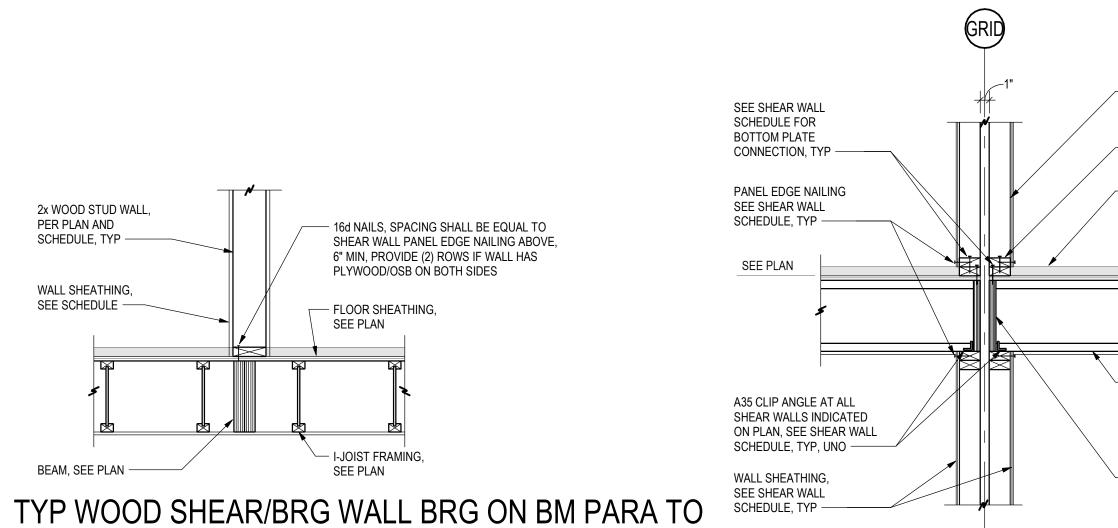


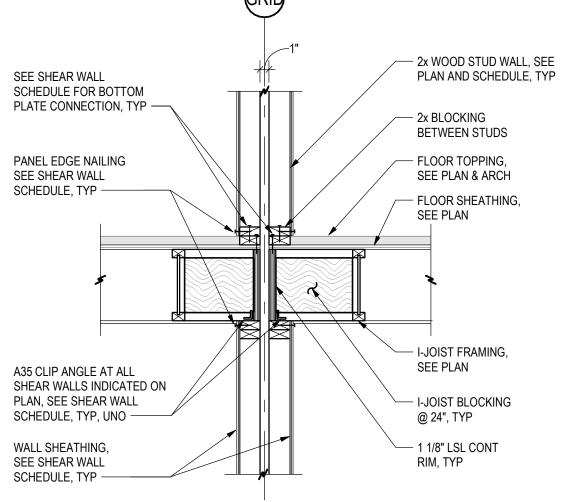
22025 Job Number: 03/25/24 **Drawn By: Checked By:**

Project Phase

PERMIT **Sheet Title** TYPICAL WOOD DETAILS

Sheet Number





— 2x NAILER PLATE, SEE SECTIONS - STEEL FRAMING, SEE PLAN & SECTIONS - OPTION 1: CONNECT NAILER TO STL BM w/ 0.145"Ø DRIVE PINS @ 16", STAGGERED EACH SIDE OF WEB OPTION 2: CONNECT NAILER TO STEEL FRAMING w/ 1/2"Ø CARRIAGE BOLTS w/ STANDARD WASHER @ 24", STAGGERED EA SIDE OF WEB OPTIONS FOR CONNECTING WOOD NAILER PLATES TO STEEL FRAMING, UNLESS NOTED OTHERWISE

TYP WOOD FLR W/ LSL CONT RIM S507

- FLOOR EDGE

NAILING TO RIM

- I-JOIST BLKG @ 24"

- 1 3/4" LSL CONT RIM (ALIGNED OVER WALL)

W/ 10d TOENAILS @ 6"

- A35 PER SHEAR WALL SCH

TOP OF SHTG

SEE PLAN

- 2x WOOD STUD WALL, SEE

PLAN AND SCHEDULE, TYP

BETWEEN STUDS

- FLOOR TOPPING,

- I-JOIST FRAMING,

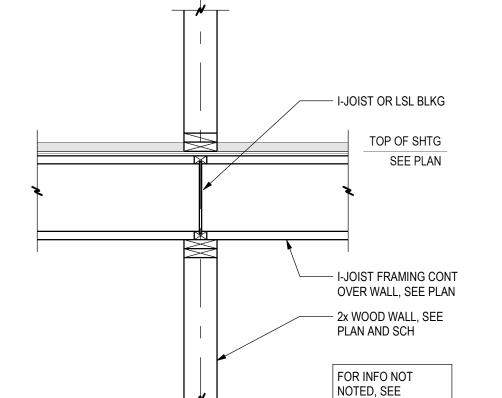
SEE PLAN

— 1 1/8" LSL CONT

SEE PLAN & ARCH

TYP WOOD I-JST BLKG W/ LSL CONT RIM 8 S507

S507 3/4" = 1'-0"



- I-JOIST BLOCKING BETWEEN JOISTS — FLOOR SHEATHING, PER PLAN - I-JOIST FRAMING, PER PLAN 2x WOOD STUD WALL, PER PLAN AND SCHEDULE -- FASTEN JOIST TO TOP PLATE W/ (3) 16d TOENAILS

FOR INFO NOT NOTED, SEE TYP WOOD FLR OVER INT SHEAR WLAL JST PARA TO

TYP WOOD I-JST FRAMING CONT OVER WALL S507 3/4" = 1'-0"

TYP WOOD I-JST LTWL TOPPING

WALL S507 3/4" = 1'-0"

2x SOLE PLATE W/ 4 1/2"

PANEL EDGE NAILING

TO SOLE PLATE ---

I-JOIST FRAMING,

SEE PLAN —

SDS SCREWS PER SCH —

PANEL EDGE NAILING, SEE SHEAR WALL SCH

2x WOOD STUD WALL, SEE

PLAN AND SCH -

WALL SHEATHING, SEE

SHEAR WALL SCH —

- 16d NAILS, SPACING SHALL BE EQUAL TO

6" MIN, PROVIDE (2) ROWS IF WALL HAS

2x WOOD STUD WALL, SEE PLAN AND SCH - 2x BLKG (OMIT WHERE

WALL FINISH INSTALLED

LTWT TOPPING, SEE PLAN

- FLOOR SHTG, SEE PLAN

TOP OF SHTG

BEFORE TOPPING)

- I-JOIST FRAMING,

- 1 1/4" LSL CONT RIM W/

10d TOENAILS @ 6"

- DBL TOP PL, SPLICE

PER TYP DETAIL

PLYWOOD/OSB ON BOTH SIDES

- FLOOR SHEATHING,

SEE PLAN

SEE PLAN

SHEAR WALL PANEL EDGE NAILING ABOVE,

TYP WOOD FLR OVER INT BRG WALL JST PERP TO WALL S507 3/4" = 1'-0"

2x WOOD STUD WALL,

PER PLAN AND

SCHEDULE, TYP

WALL SHEATHING,

SEE SCHEDULE -

WALL

2x SOLE PLATE

PANEL EDGE

NAILING TO TOP PL -

WALL SHTG, SEE

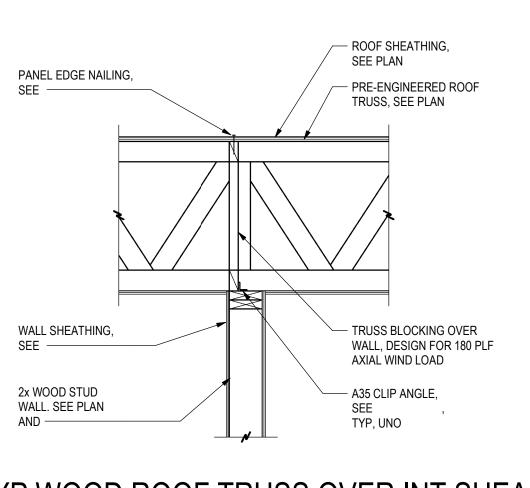
SHEAR WALL SCH

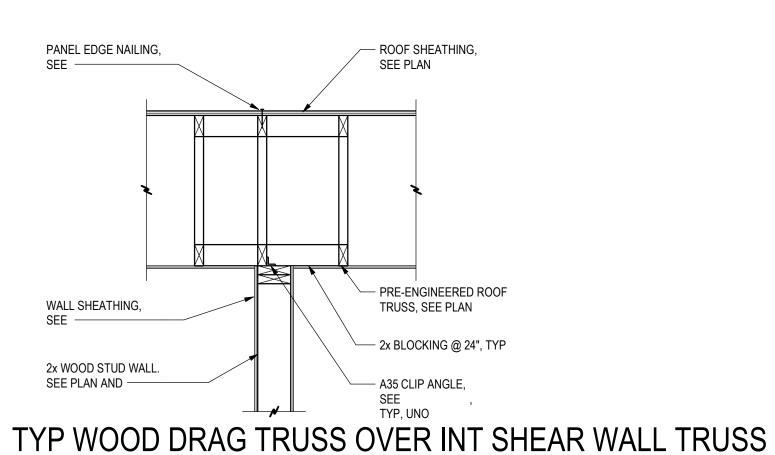
W/ 16d BOX @ 12" -

PANEL EDGE NAILING,

SEE SHEAR WALL SCH

일 BREAK SHTG MID-DEPTH ON RIM





H3 AT KICKER -2x8 CONTINUOUS, ATTACH TO TRUSS MEMBERS W/ (2) 2x4 KICKERS @ 48" W/ 2x4 BRIDGING @ 4'-0 (STAGGER SIDES) ATTACH TO EACH 1/4" x 3" SDS SCREWS KICKER W/ (2) 12d NAILS. NOTE: KICKERS AT TOP OF WALL SHALL BE @ 24" GA2 AT EACH KICKER A34 AT EACH TOP OF WALL KICKER -- H2.5A AT EACH TOP OF WALL KICKER

TRUSS

REVIEWED FOR CODE COMPLIANC 04/01/2025

NSULTING ENGINEE

www.jvajva.com

Boulder • Fort Collins • Winter Park

Glenwood Springs ● Denver JVA #22025

NOTICE: DUTY OF COOPERATION

Release of these plans contemplates further cooperation among the owner, his contractor and the

performed their services with due care and diligence they cannot guarantee perfection. Communication is

mperfect and every contingency cannot be anticipated Any ambiguity or discrepancy discovered by the use of

these plans shall be reported immediately to the architect. Failure to notify the architect compounds

consent of the architect are unauthorized and shall relieve the architect of responsibility for all

consequences arriving out of such changes.

All design, documents and data prepared by Eric Smith Associates, P.C. as instruments of service shall remain property of Eric Smith Associates, P.C

and shall not be copied, changed or disclosed in any form whatsoever without first obtaining the express

written consent of Eric Smith Associates, P.C.

Eric Smith Associates, P.

REVISIONS

Description Date

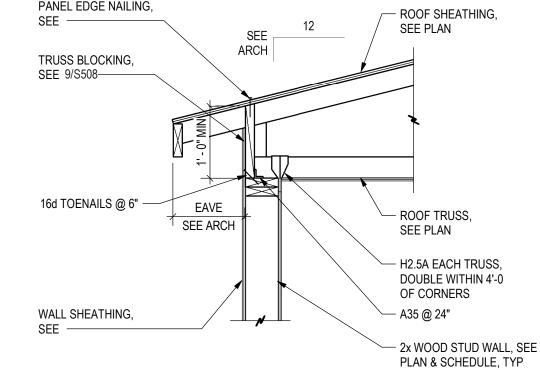
isunderstanding and increases construction costs. shall relieve the architect from responsibility for the

TYP WOOD GABLE END TRUSS BRACING AT BASE OF

EDGE NAILING, SEE PLAN -

TYP WOOD ROOF TRUSS OVER INT SHEAR WALL TRUSS PERP TO WALL





TYP WOOD EXT WALL AT ROOF

3/4" = 1'-0"

 $\sqrt{5508}$ 3/4" = 1'-0"

STEEL BEAM, SEE PLAN,

3/16" FITTED STIFFENER PLATE OPPOSITE SIDE

INSIDE WIDTH OF SADDLE SHALL BE AS

(2) 2x BEAM = 3 1/8"

(3) 2x BEAM = 45/8"

(4) 2x BEAM = 6 1/8"

(5) 2x BEAM = 7 5/8"

W/ 2x NAILER. -

SEE PLAN_

OF HANGER -

FLANGE

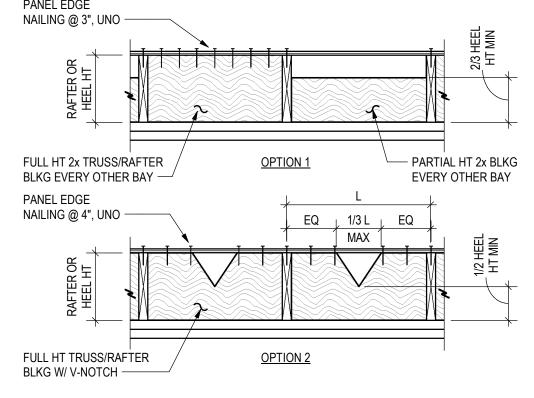
FOLLOWS: (2) LVL BEAM = 3 5/8"

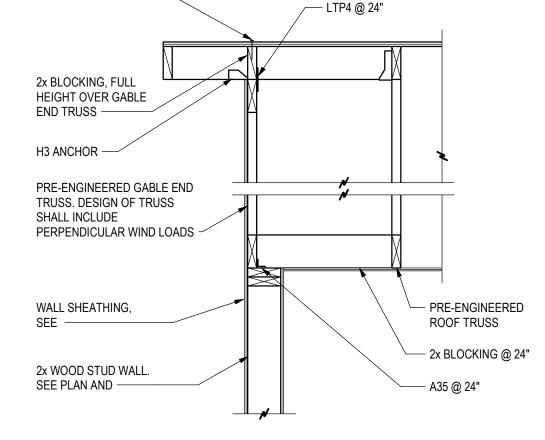
(3) LVL BEAM = 5 3/8"

(4) LVL BEAM = 7 1/8"

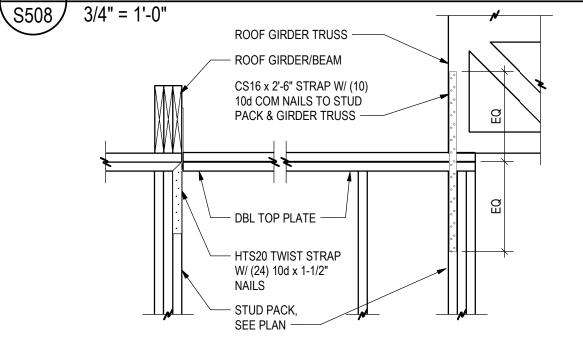
(5) LVL BEAM = 8 7/8"

PARA TO WALL

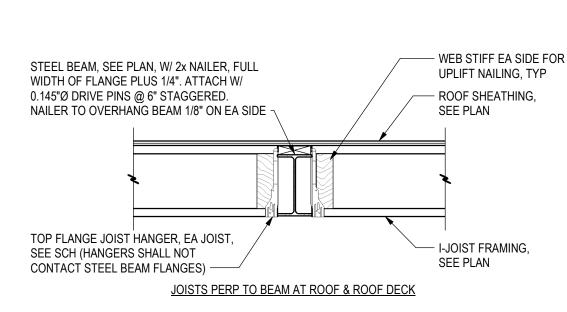


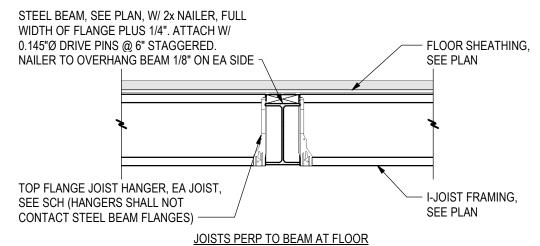


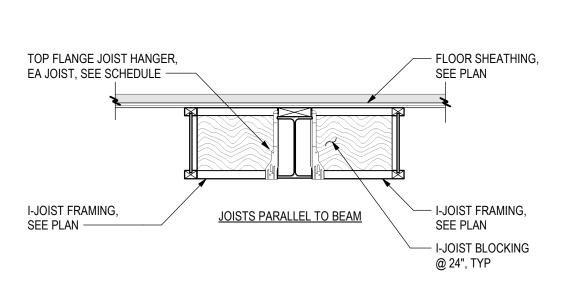
TYP WOOD TRUSS/RAFTER BLKG AT HEEL





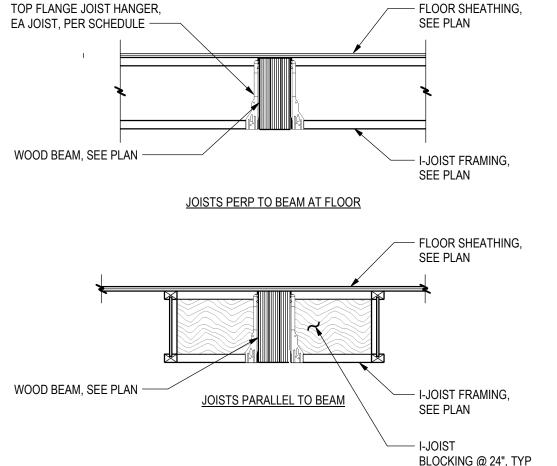




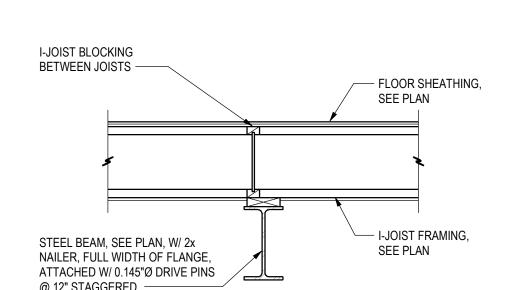


TYP WOOD FLUSH STL BM

PANEL EDGE NAILING, FLOOR SHEATHING, EA JOIST, PER SCHEDULE -SEE PLAN WOOD BEAM, SEE PLAN I-JOIST FRAMING SEE PLAN JOISTS PERP TO BEAM AT ROOF & ROOF DECK - FLOOR SHEATHING, SEE PLAN



TYP WOOD FLUSH WOOD BM





FIT BEAM TIGHT TO BACK OF SADDLE

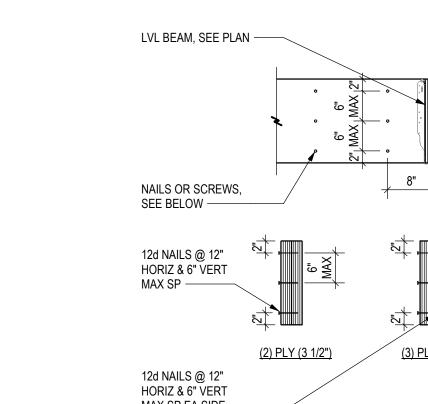
LVL BEAM FLUSH WITH TOP OF

NAILER PLATE, SEE PLAN. MAY BE

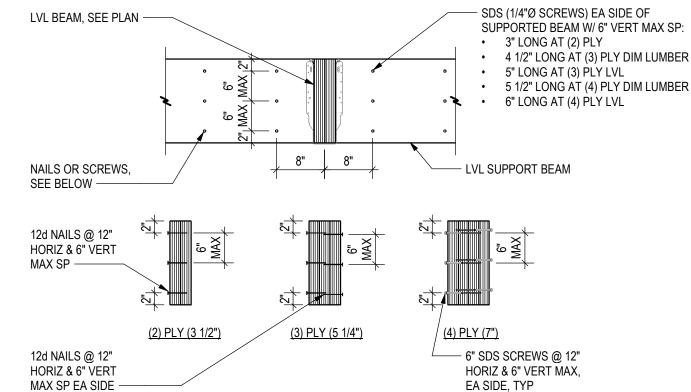
NOTCHED 3/16" AT BEARING TO

KEEP HANGER FLUSH W/ BOT OF

FRAMING. DO NOT OVER-NOTCH



S508 3/4" = 1'-0"



TYP WOOD GIRDER TIE-DOWN DETAIL

TYP WOOD SADDLE HANGER TO SIDE OF STL BM AT

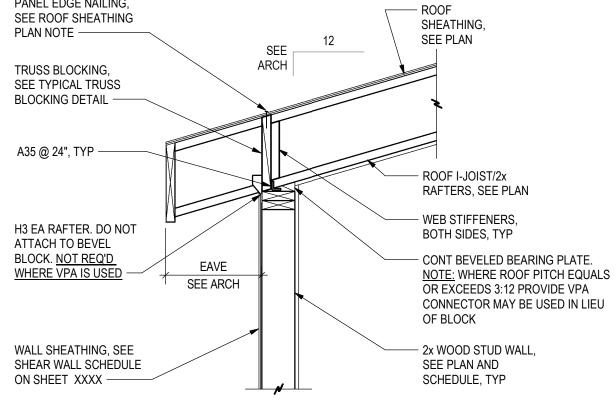
3/16" THICK SIDE, END AND BOT PLATES JOINED

W/ CONT 3/16" FILLET WELDS. PROVIDE (4)

SDS25112 SCREWS EACH SIDE. WHERE STEEL

BEAMS ARE DEEPER EXTEND THE END PLATE

TO ATTACH TO BEAM FLANGE









TYP WOOD BUILT UP BM

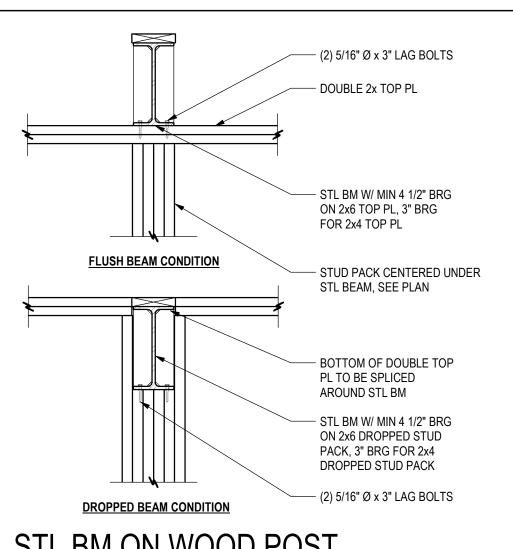
Project Phase PERMIT **Sheet Title Sheet Number**

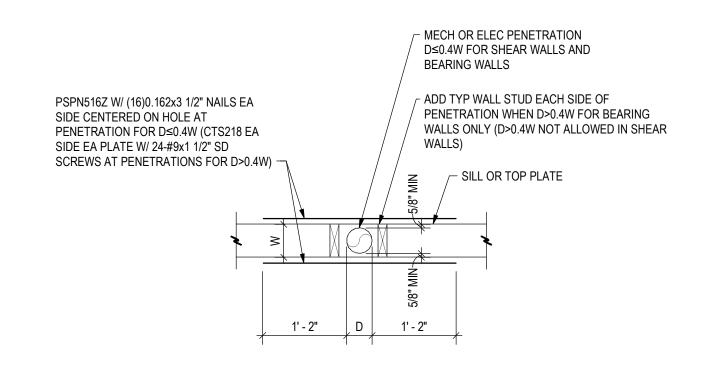
UR

Job Number:

Drawn By: Checked By:

TYPICAL WOOD DETAILS



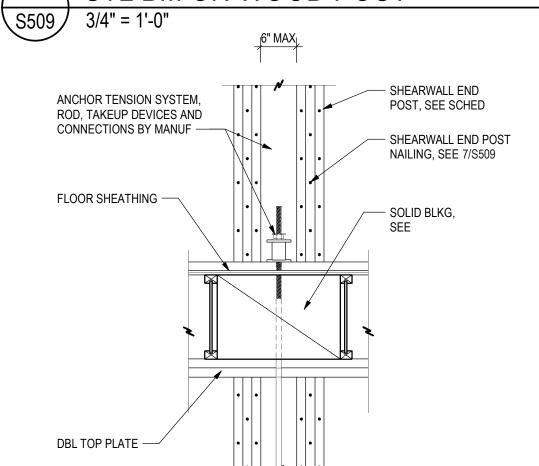


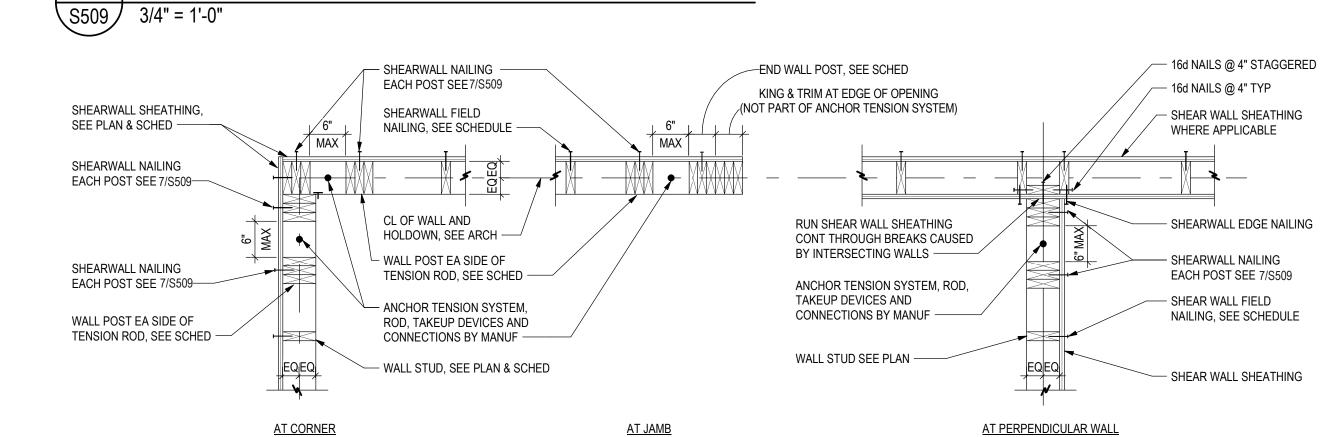
TYP PLATE PENETRATION

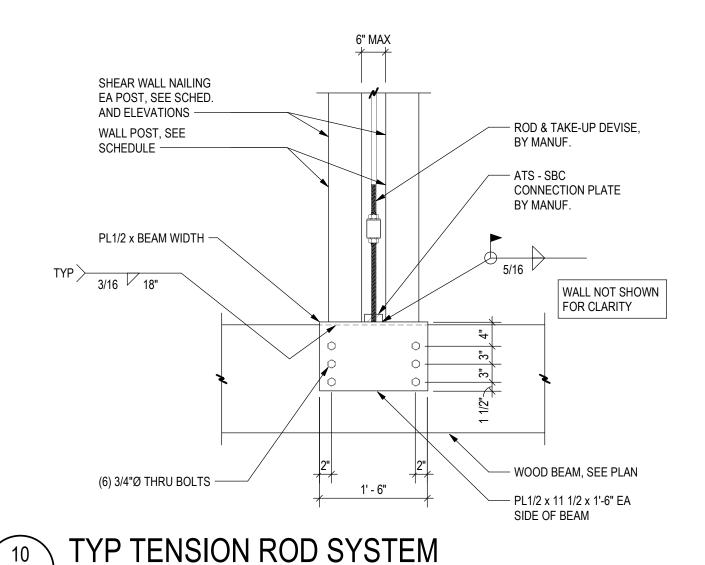


04/01/2025

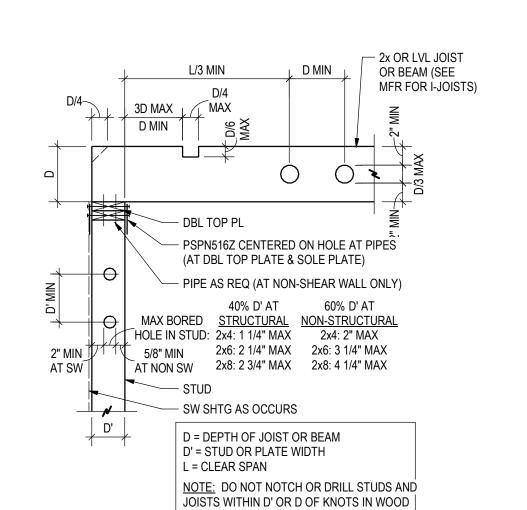




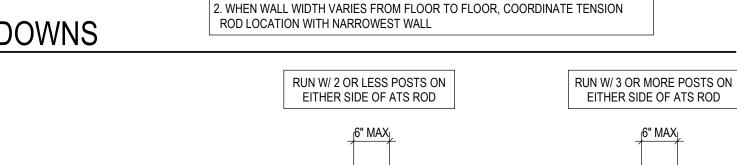




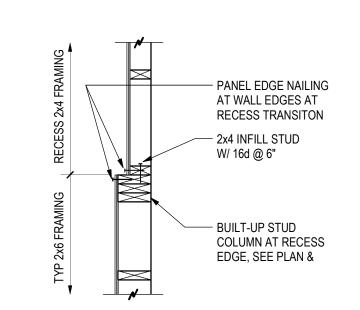
TENSION ROD SYSTEM







1. COMPRESSION MEMBER/WALL POSTS DO NOT INCLUDE TRIMMERS OR KINGS.





NAILING TO EA STUD SHALL BE THE SPECIFIED EDGE NAILING PER THE

GREATER THAN 12" O.C. EXAMPLE: 2" O.C. SCHEDULE EDGE NAILING W/

SCHEDULE MULTIPLIED BY THE TOTAL NUMBER OF STUDS BUT NOT

- ANCHOR TENSION SYSTEM,

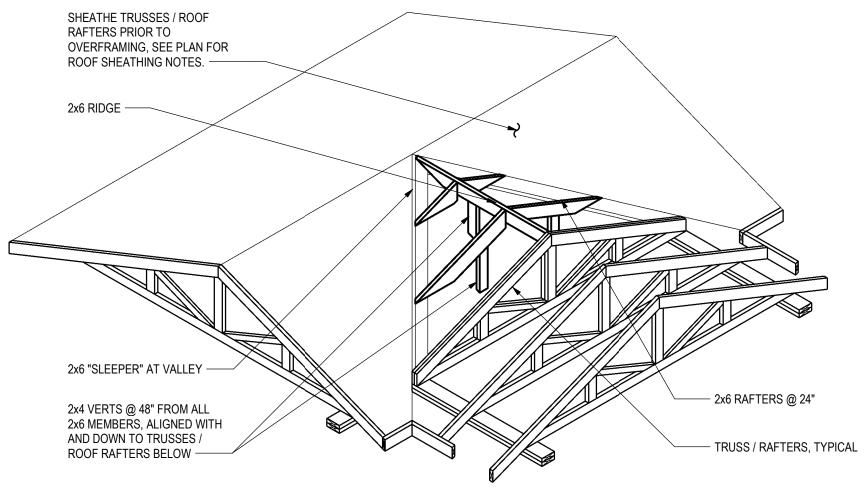
ROD, TAKEUP DEVICES AND

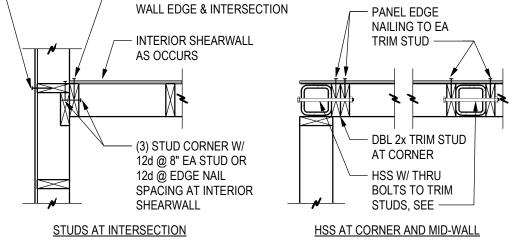
CONNECTIONS BY MANUF -

- COMPRESSION

POST, SEE SCHED

MEMBERS/END WALL





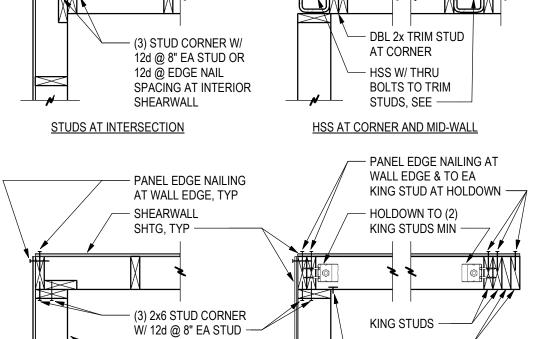
STUDS AT EXT WALL RECESS

PANEL EDGE NAILING AT

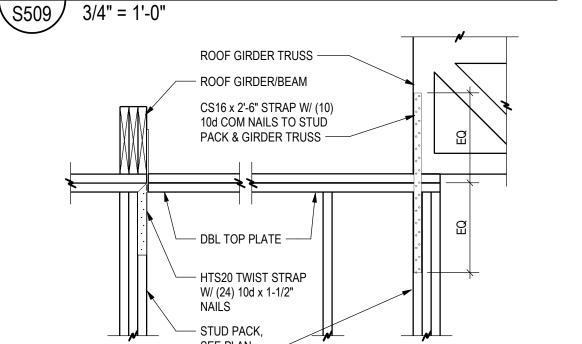
- WOOD STUD

WALL, TYP

STUDS AT CORNER



TYP WOOD STUD & JST HOLE DETAIL 3/4" = 1'-0"



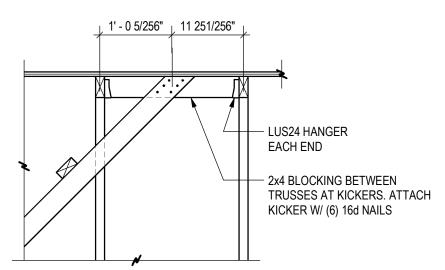
TYP WOOD FLUSH HEADER / BM

TYP WOOD SHEATH TRUSSES/ROOF RAFTERS 3/4" = 1'-0"

\S509/

) 3/4" = 1'-0"

TYP WOOD STUD WALL PLAN DETAILS 3/4" = 1'-0"





TRIM STUD(S) - DRYWALL STOP PERMIT OR BLOCKING HOLDOWN AT CORNER AND END **Sheet Number**



TYP WOOD GABLE END TRUSS KICKER

S509

MSTA 24, FLUSH

1 1/4" LSL x 14"

(2) 2x TOP PL

PÉR SCH —

LONG MIN BLKG W/

(2) A35 TO TOP PL -

HEADER TO BLKG —

CANTILEVER BEAM, SEE PLAN, DOES NOT OCCUR AT 'SIM' - FLUSH HEADER, SEE PLAN, BEAM AT 'SIM' MSTA24 STRAP AT NEAR SIDE (STUD TO FLUSH HEADER) & MTS24C TWIST STRAP AT FAR SIDE (STUD TO

W/ 10d x 1 1/2"

STUD PACK, SEE PLAN

(4) TOTAL COMPRESSION MEMBERS = 2" O.C. x 4PLY = 8"O.C. EA PLY CATILEVER BEAM), FILL ALL HOLES \S509/ 3/4" = 1'-0"

imperfect and every contingency cannot be anticipated Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to the architect. Failure to notify the architect compounds nisunderstanding and increases construction costs. failure to cooperate by a simple notice to the architec shall relieve the architect from responsibility for the consequences. Changes made from the plans withou consent of the architect are unauthorized and shall relieve the architect of responsibility for all consequences arriving out of such changes. All design, documents and data prepared by Eric Smith Associates, P.C. as instruments of service shall remain property of Eric Smith Associates, P.C. and shall not be copied, changed or disclosed in any form whatsoever without first obtaining the express written consent of Eric Smith Associates, P.C. Eric Smith Associates, P.C

NSULTING ENGINEE

Boulder, CO 80302 303.444.1951 www.jvajva.com Boulder ● Fort Collins ● Winter Park

Glenwood Springs ● Denver JVA #22025

NOTICE: DUTY OF COOPERATION

Release of these plans contemplates further cooperation among the owner, his contractor and the

architect. Design and construction are complex.

Although the architect and his consultants have

performed their services with due care and diligence

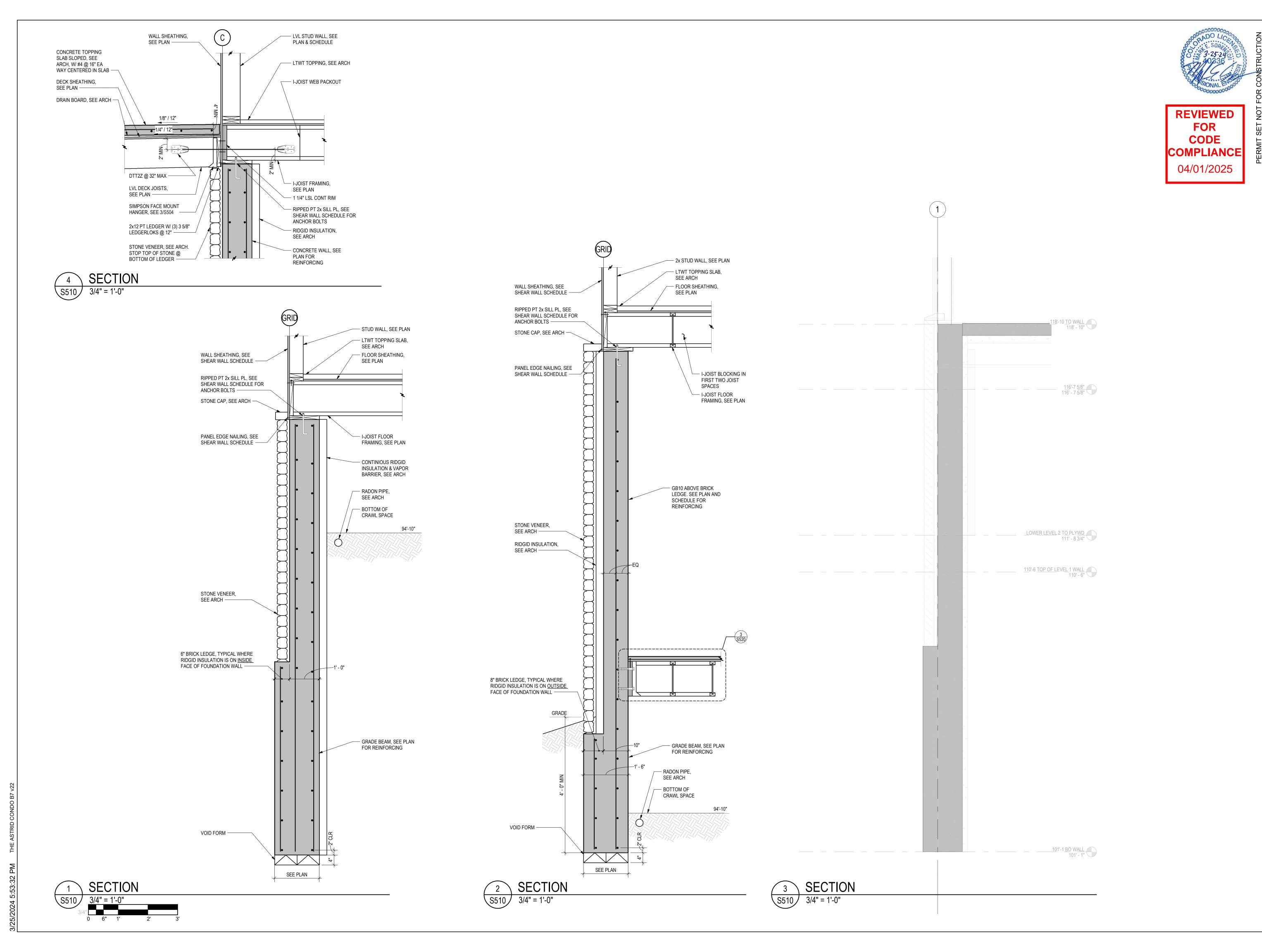
they cannot guarantee perfection. Communication is

REVISIONS Description Date

22025 Job Number: 03/25/24 **Drawn By: Checked By:**

Project Phase

Sheet Title TYPICAL WOOD DETAILS





Boulder, CO 80302 303.444.1951 www.jvajva.com Boulder ● Fort Collins ● Winter Park Glenwood Springs

◆ Denver

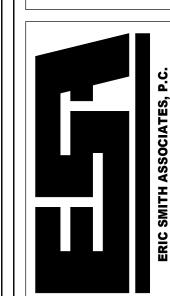
JVA #22025

NOTICE: DUTY OF COOPERATION Release of these plans contemplates further cooperation among the owner, his contractor and the architect. Design and construction are complex.
Although the architect and his consultants have performed their services with due care and diligence, they cannot guarantee perfection. Communication is imperfect and every contingency cannot be anticipated.

Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to the architect. Failure to notify the architect compounds misunderstanding and increases construction costs. A failure to cooperate by a simple notice to the architect shall relieve the architect from responsibility for the consequences. Changes made from the plans without consent of the architect are unauthorized and shall relieve the architect of responsibility for all consequences arriving out of such changes.

All design, documents and data prepared by Eric Smith Associates, P.C. as instruments of service shall remain property of Eric Smith Associates, P.C. and shall not be copied, changed or disclosed in any form whatsoever without first obtaining the express written consent of Eric Smith Associates, P.C. Eric Smith Associates, P.C.

	REVISIONS				
No.	Description	Date			



Job Number: 03/25/24 Drawn By: Checked By:

Project Phase
PERMIT

Sheet Title FOUNDATION SECTIONS

REVIEWED CODE COMPLIANCE

ONSULTING ENGINEER Boulder, CO 80302 303.444.1951 www.jvajva.com Boulder ● Fort Collins ● Winter Park Glenwood Springs ● Denver JVA #22025

> NOTICE: DUTY OF COOPERATION Release of these plans contemplates further cooperation among the owner, his contractor and the architect. Design and construction are complex.
> Although the architect and his consultants have performed their services with due care and diligence, they cannot guarantee perfection. Communication is imperfect and every contingency cannot be anticipated. Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to the architect. Failure to notify the architect compounds misunderstanding and increases construction costs. A failure to cooperate by a simple notice to the architect shall relieve the architect from responsibility for the consequences. Changes made from the plans without consent of the architect are unauthorized and shall relieve the architect of responsibility for all

consequences arriving out of such changes. All design, documents and data prepared by Eric Smith Associates, P.C. as instruments of service shall remain property of Eric Smith Associates, P.C. and shall not be copied, changed or disclosed in any form whatsoever without first obtaining the express written consent of Eric Smith Associates, P.C.

REVISIONS						
No.	Description	Date				



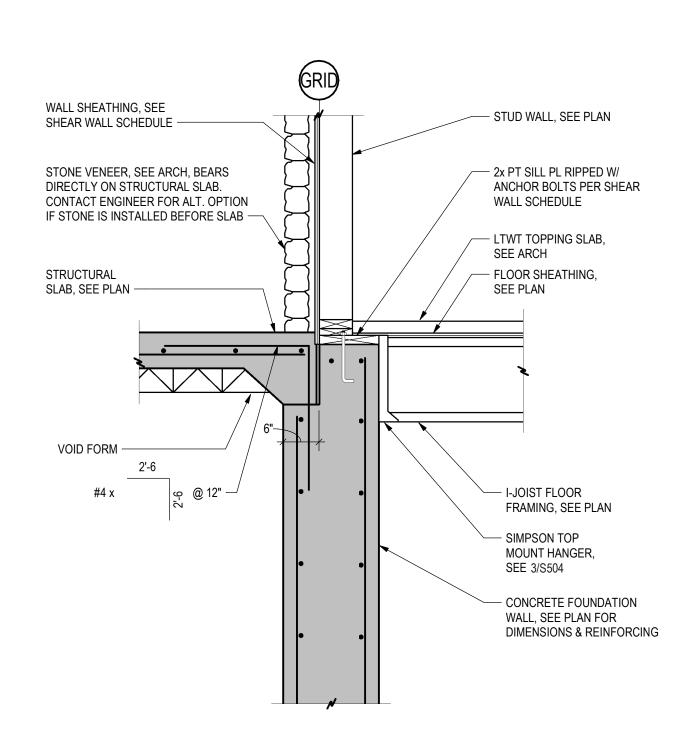
22025 Job Number: 03/25/24 BPK/LAB Drawn By: Checked By:

Project Phase

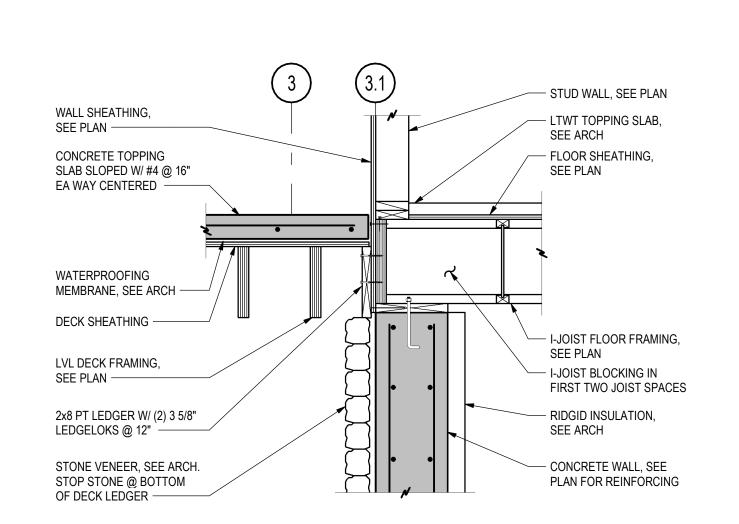
PERMIT **Sheet Title**

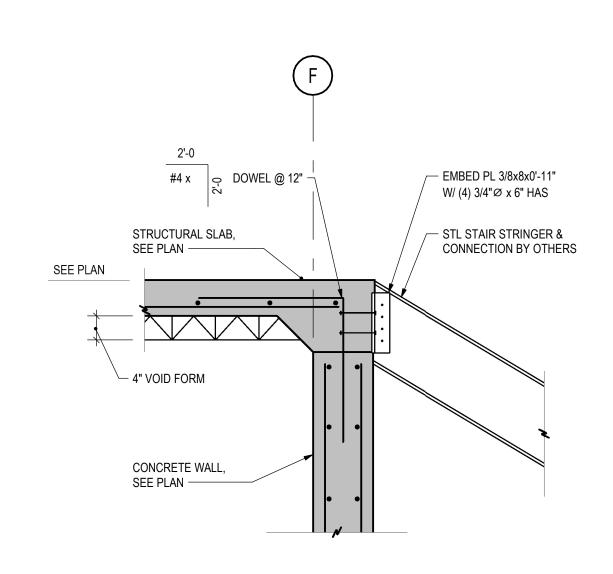
FOUNDATION SECTIONS

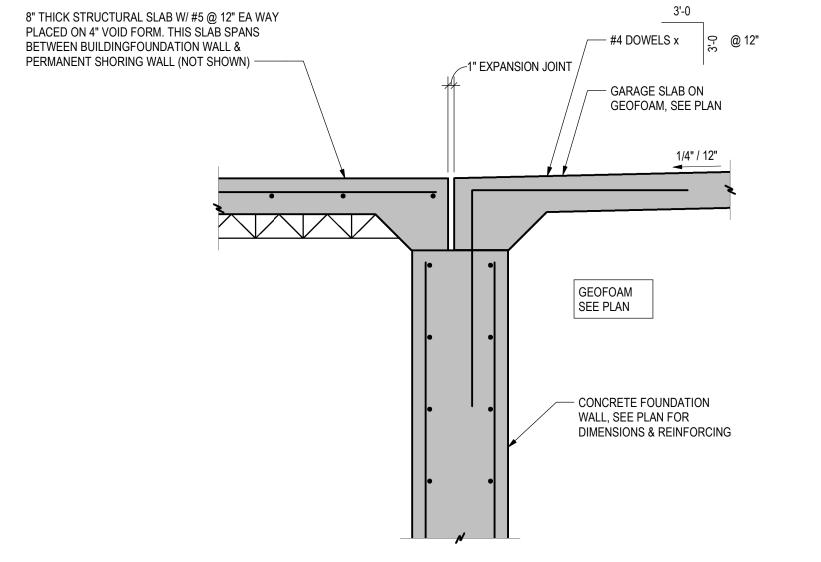
Sheet Number



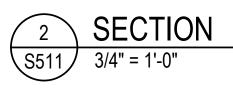


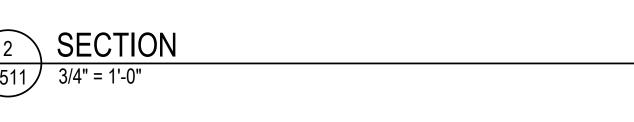






SECTION







REVIEWED FOR CODE COMPLIANCE 04/01/2025

JVA, Inc. 1319 Spruce Street Boulder, CO 80302 303.444.1951

NOTICE: DUTY OF COOPERATION Release of these plans contemplates further cooperation among the owner, his contractor and the architect. Design and construction are complex.
Although the architect and his consultants have performed their services with due care and diligence, they cannot guarantee perfection. Communication is imperfect and every contingency cannot be anticipated.

Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to the architect. Failure to notify the architect compounds misunderstanding and increases construction costs. A failure to cooperate by a simple notice to the architect shall relieve the architect from responsibility for the shall relieve the architect from responsibility for the consequences. Changes made from the plans without consent of the architect are unauthorized and shall relieve the architect of responsibility for all consequences arriving out of such changes.

ONSULTING ENGINEERS

www.jvajva.com Boulder ● Fort Collins ● Winter Park Glenwood Springs ● Denver JVA #22025

All design, documents and data prepared by Eric Smith Associates, P.C. as instruments of service shall remain property of Eric Smith Associates, P.C. and shall not be copied, changed or disclosed in any form whatsoever without first obtaining the express written consent of Eric Smith Associates, P.C. Eric Smith Associates, P.C.

REVISIONS							
No.	Description	Date					

EX BUIL

- CONC FDN WALL, SEE PLAN & SCHEDULE

— FLOOR SHEATHING,

— TJI FLOOR JOISTS, SEE PLAN

— TJI BLOCKING @ 24" IN

HANGER, SEE 3/S504

FACE MOUNT

FIRST TWO JOIST SPACES

— 14" LVL LEDGER W/ (2) 3/4"Ø x 6" TITEN HD @ 32" W/ 4" MIN EMBED. PROVIDE ICE & WATER SHIELD BETWEEN LVL & CONCRETE

SEE PLAN

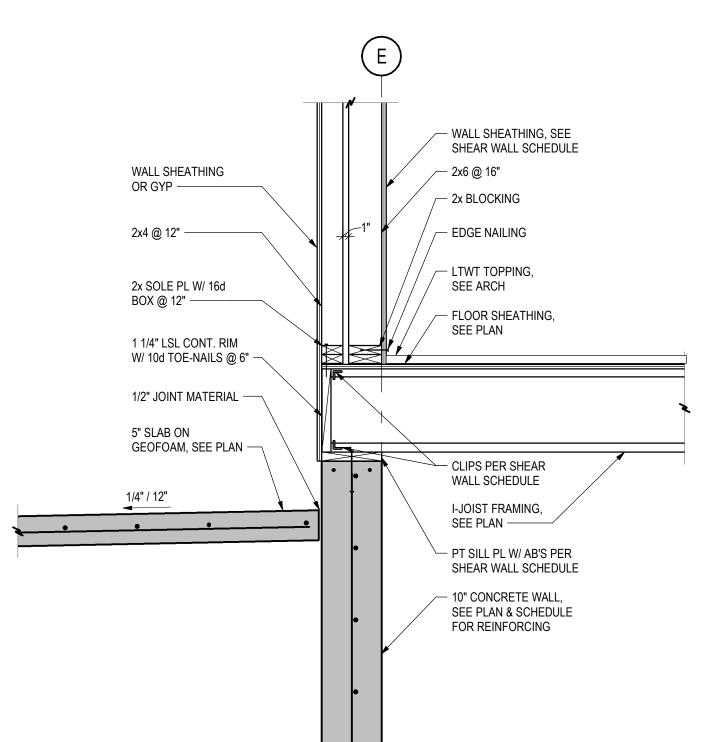
22025 03/25/24

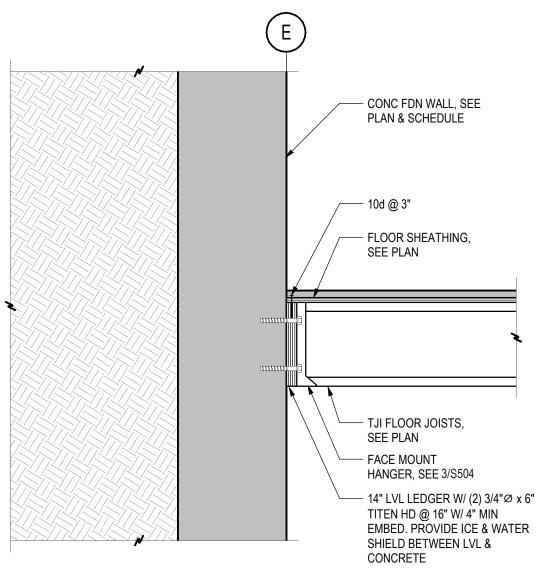
Job Number: Date: BPK/LAB Drawn By: Checked By:

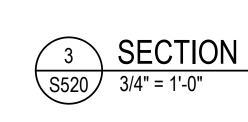
Project Phase PERMIT

Sheet Title
FOUNDATION & FLOOR
SECTIONS

Sheet Number

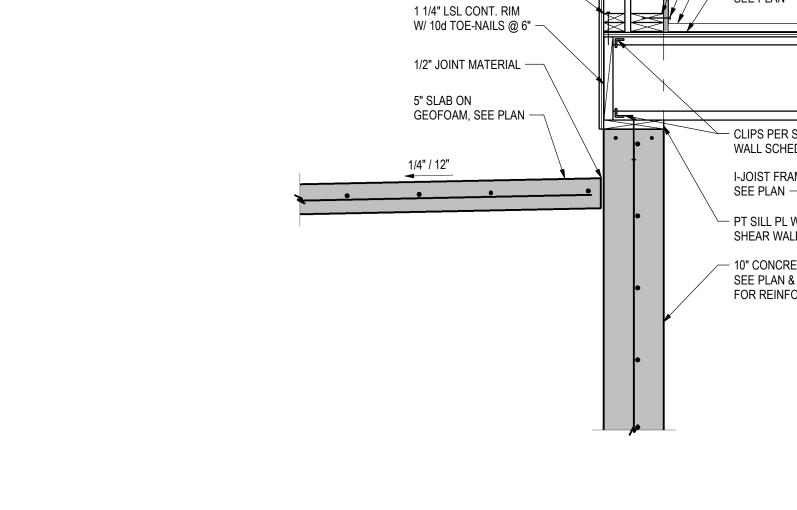




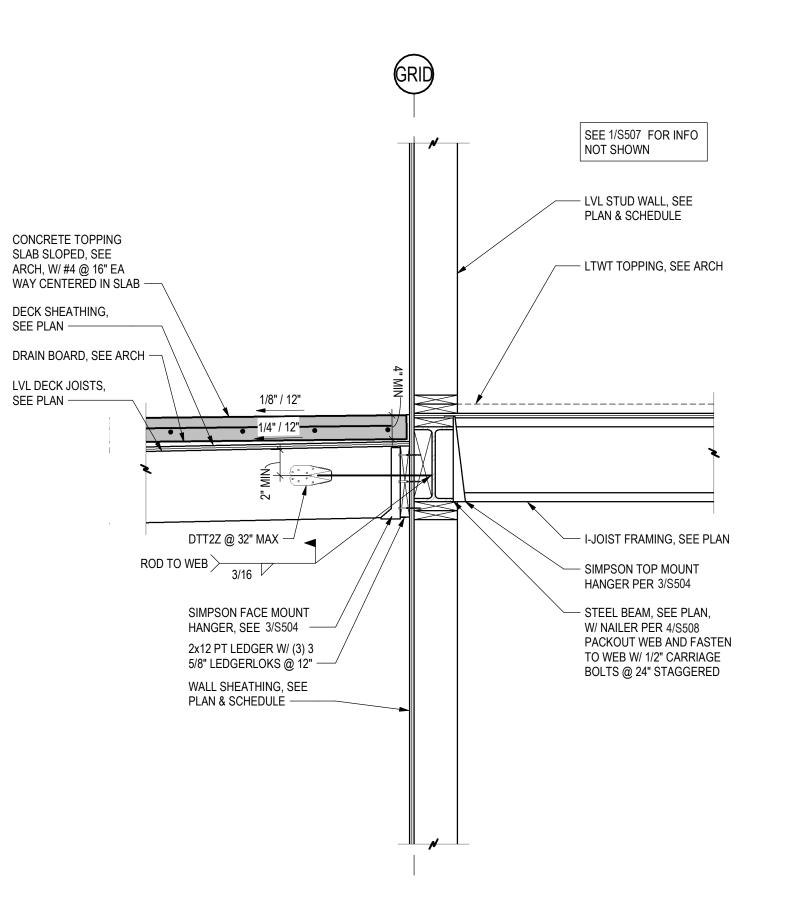


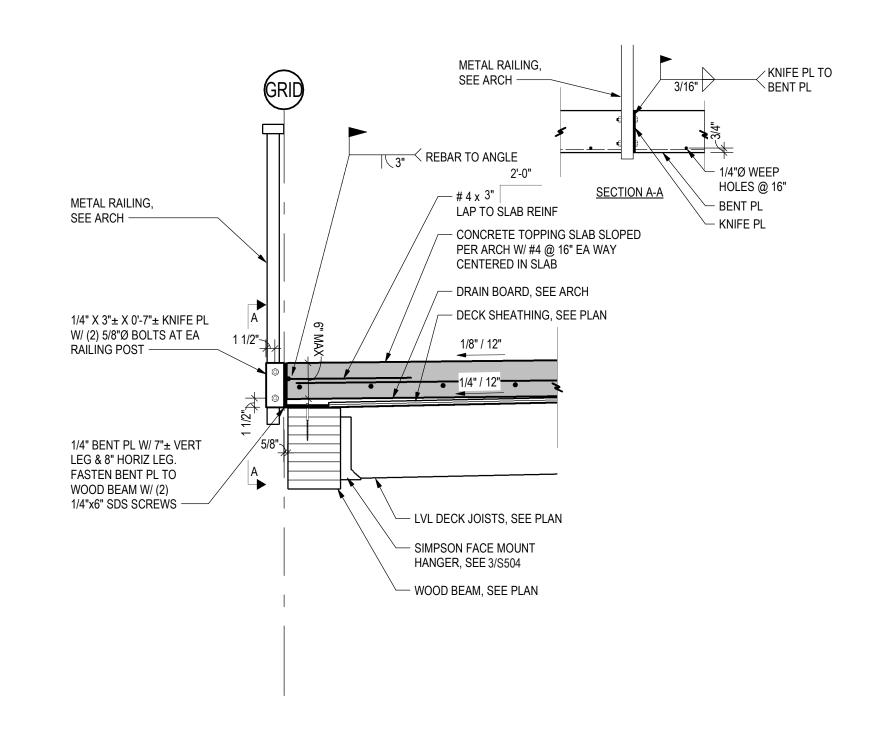
2 SECTION S520 3/4" = 1'-0"

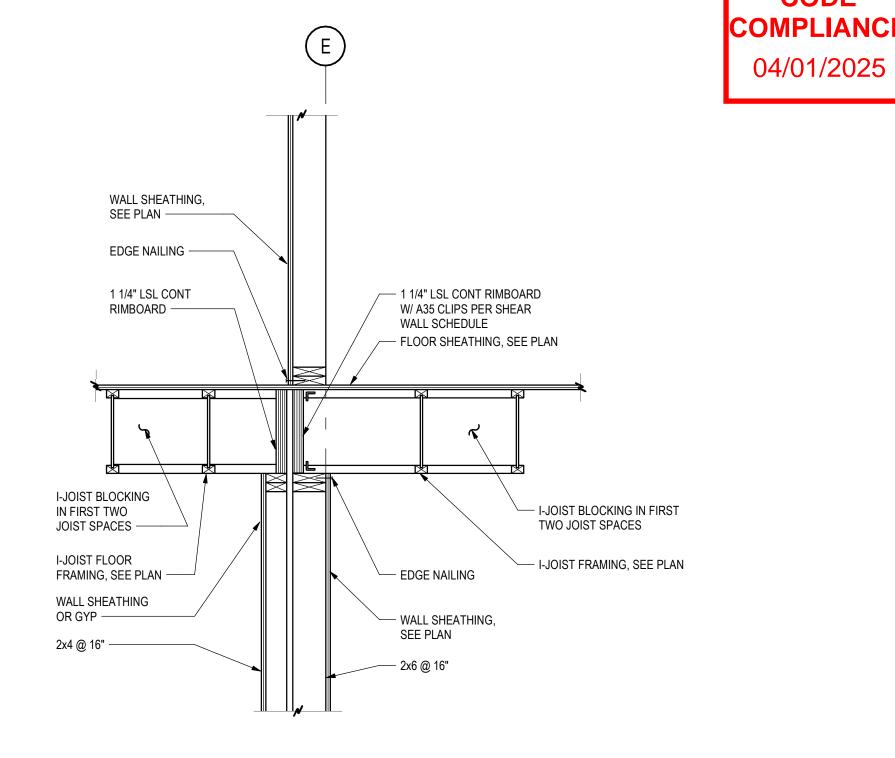


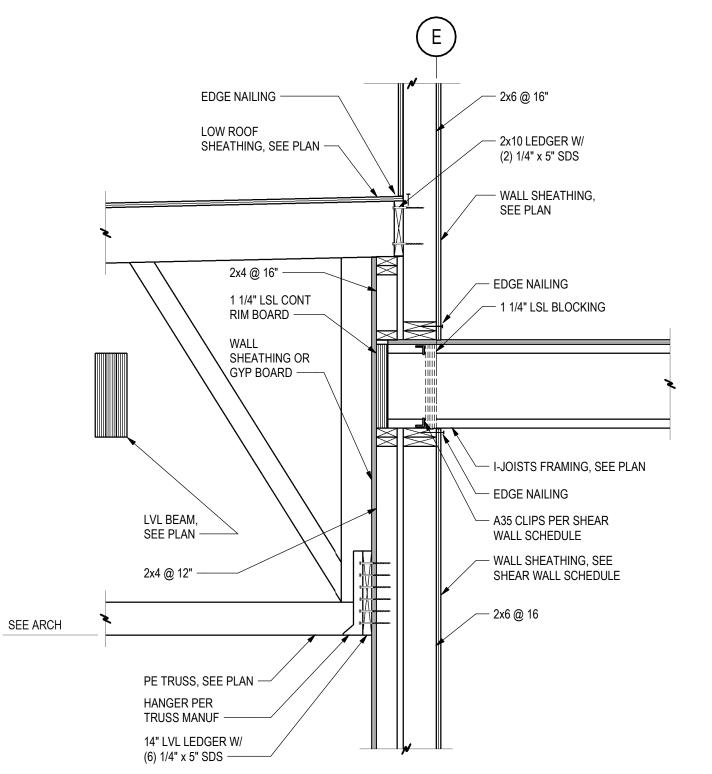


SECTION

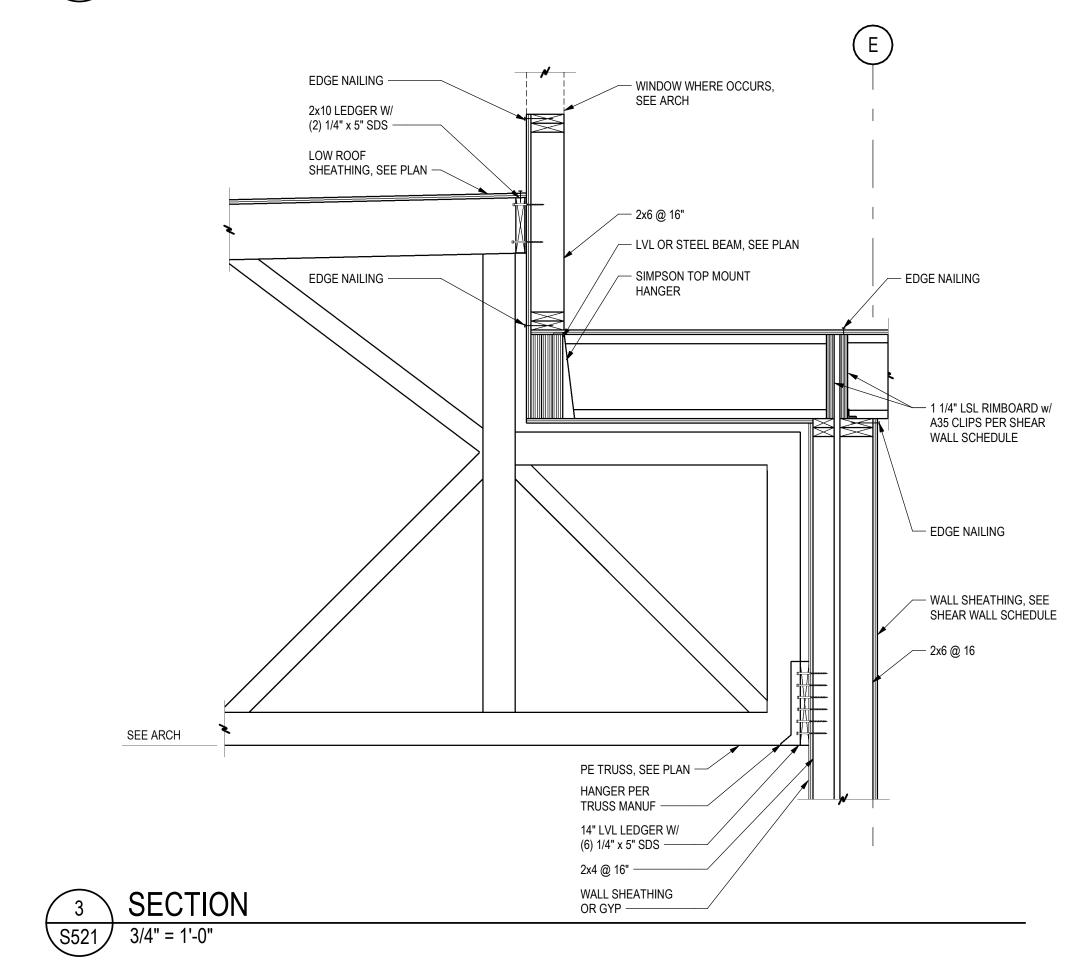


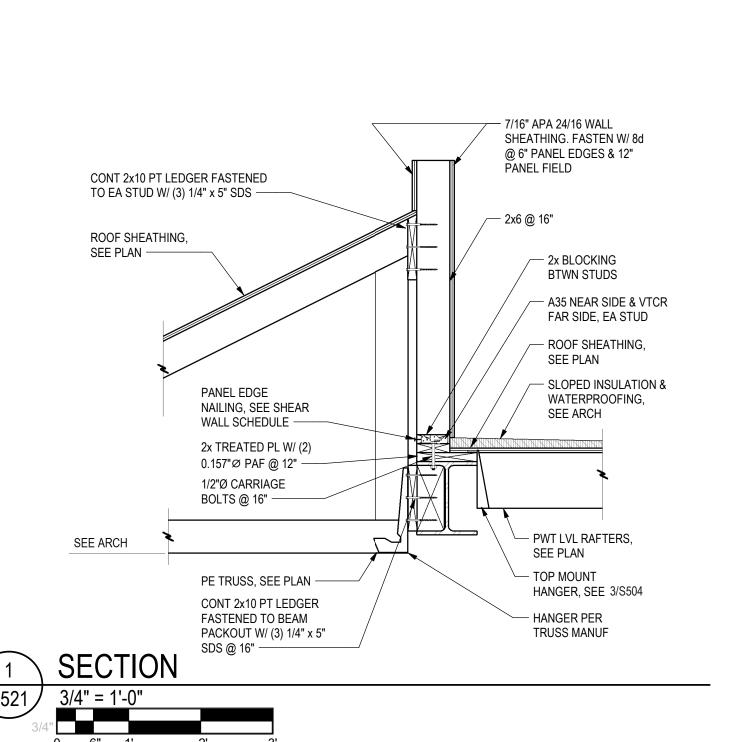






SECTION







Boulder ● Fort Collins ● Winter Park Glenwood Springs ● Denver JVA #22025

NOTICE: DUTY OF COOPERATION Release of these plans contemplates further cooperation among the owner, his contractor and the architect. Design and construction are complex.
Although the architect and his consultants have performed their services with due care and diligence, they cannot guarantee perfection. Communication is imperfect and every contingency cannot be anticipated.
Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to the architect. Failure to notify the architect compounds misunderstanding and increases construction costs. A failure to cooperate by a simple notice to the architect shall relieve the architect from responsibility for the consequences. Changes made from the plans without consent of the architect are unauthorized and shall relieve the architect of responsibility for all consequences arriving out of such changes.

REVIEWED

FOR

CODE

All design, documents and data prepared by Eric Smith Associates, P.C. as instruments of service shall remain property of Eric Smith Associates, P.C. and shall not be copied, changed or disclosed in any form whatsoever without first obtaining the express written consent of Eric Smith Associates, P.C. Eric Smith Associates, P.C.

REVISIONS No. Description Date

22025 Job Number:

03/25/24 BPK/LAB **Drawn By: Checked By:**

Project Phase PERMIT **Sheet Title**

FLOOR & ROOF SECTIONS



REVIEWED FOR CODE COMPLIANCE 04/01/2025

these plans shall be reported immediately to the architect. Failure to notify the architect compounds misunderstanding and increases construction costs. A failure to cooperate by a simple notice to the architect shall relieve the architect from responsibility for the consequences. Changes made from the plans without consent of the architect are unauthorized and shall relieve the architect of responsibility for all consequences arriving out of such changes. All design, documents and data prepared by Eric Smith Associates, P.C. as instruments of service shall remain property of Eric Smith Associates, P.C. and shall not be copied, changed or disclosed in any form whatsoever without first obtaining the express written consent of Eric Smith Associates, P.C.

Eric Smith Associates, P.C. **REVISIONS** No. Description Date

ONSULTING ENGINEER

Boulder, CO 80302 303.444.1951 www.jvajva.com Boulder ● Fort Collins ● Winter Park Glenwood Springs

◆ Denver

JVA #22025

NOTICE: DUTY OF COOPERATION

Release of these plans contemplates further cooperation among the owner, his contractor and the architect. Design and construction are complex.
Although the architect and his consultants have

performed their services with due care and diligence, they cannot guarantee perfection. Communication is

imperfect and every contingency cannot be anticipated. Any ambiguity or discrepancy discovered by the use of

EDGEMONT/S FOURPLEX BU STEAMBOAT SPRING

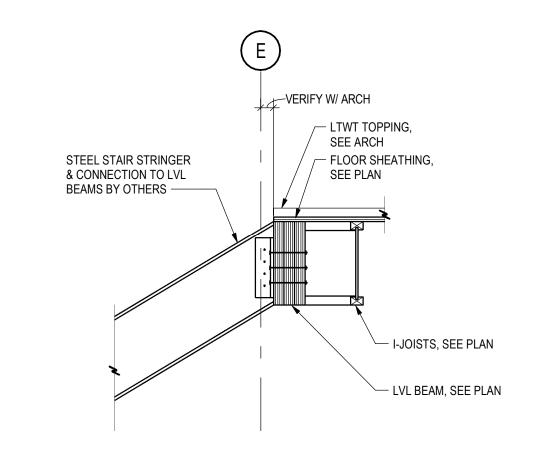
22025 Job Number: 03/25/24 BPK/LAB Drawn By: Checked By:

Project Phase PERMIT

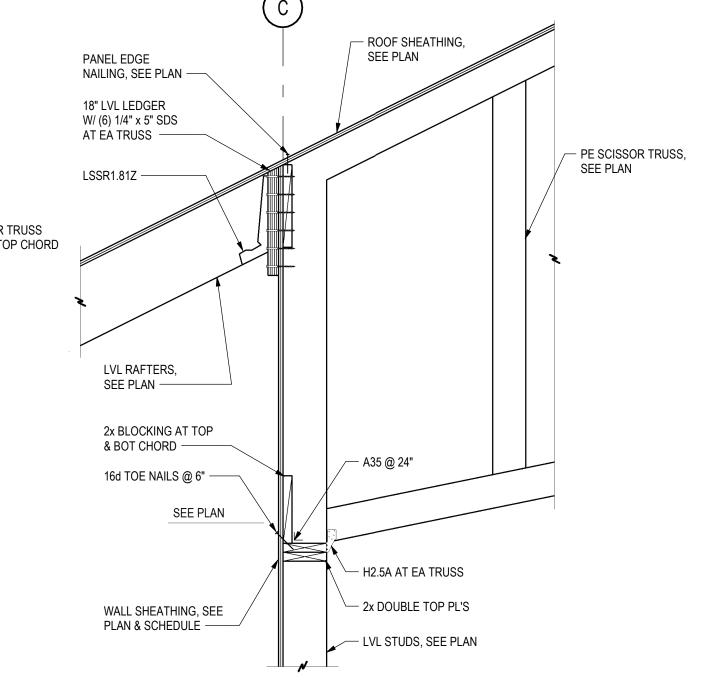
Sheet Title FLOOR & ROOF SECTIONS

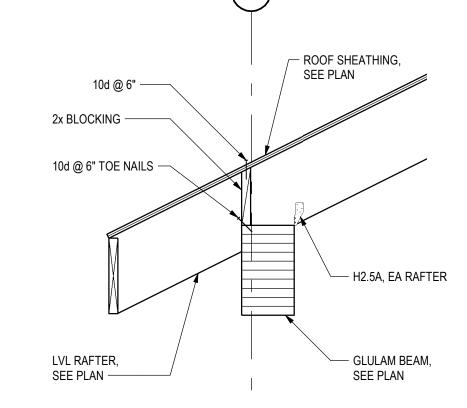
Sheet Number

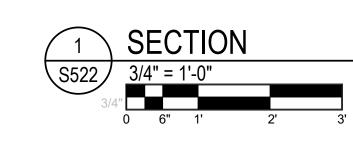




S522 3/4" = 1'-0"







H2.5A EA RAFTER -

TIMBER BEAM, SEE PLAN ———

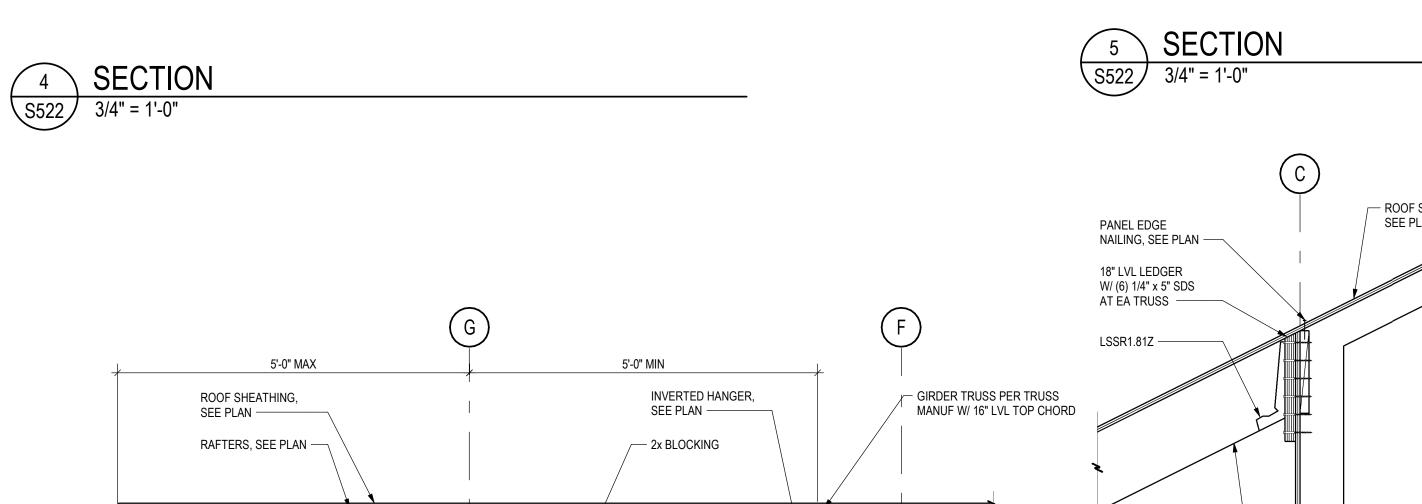
2x BLOCKING -

WALL SHEATHING, SEE PLAN & SCHEDULE ———

SEE PLAN







TRUSS PER PLAN -

- (2) MTS12 AT EA TIMBER BEAM

— 2x DOUBLE TOP PL'S

____ 2x STUDS, SEE PLAN