STRUCTURAL DEFERRED SUBMITTALS

design Criteria

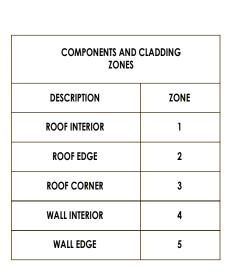
- 1. THE CONSTRUCTION DOCUMENTS ARE BASED ON THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE WITH LOCAL AMENDMENTS FROM THE AUTHORITY HAVING JURISDICTION. A. BUILDING CODE VERSION:. 2021 INTERNATIONAL BUILDING CODE W. LOCAL AHJ AMENDMENTS
- B. AUTHORITY HAVING JURISDICTION ... CITY OF BRYAN, TX C. RISK CATEGORY:..... 2. DEAD LOADS:
- A. DEAD LOADS ARE BASED UPON THE ACTUAL WEIGHTS OF MATERIALS OF CONSTRUCTION AND FIXED SERVICE EQUIPMENT. ASSUMPTIONS FOR WALL AND ROOF ASSEMBLIES ARE SHOWN BELOW: a. METAL PANELS - 3 PSF b. CURTAIN WALLS - 10 PS c. STONE / BRICK VENEER - 40 PSF
- d. ADHERED STONE/BRICK 10 PSE e. SINGLE PLY MEMBRANE ROOF WITH INSULATION ASSEMBLY - 10 PSF
- a. ASSUMED LOADS FOR KNOWN EQUIPMENT ARE INDICATED ON THE STRUCTURAL DRAWINGS. ANY CHANGES IN THE TYPE, SIZE, LOCATION OR WEIGHT OF EQUIPMENT SHALL BE REPORTED TO THE EOR FOR VERIFICATION OF THE ADEQUACY OF SUPPORTING MEMBERS PRIOR TO THE SUBMISSION OF SHOP DRAWINGS. b. ASSUMED EQUIPMENT WEIGHTS INCLUDE THE WEIGHT OF CONCRETE PADS OR CURBS (IF APPLICABLE) c. FOR EQUIPMENT NOT INDICATED ON THE STRUCTURAL DRAWINGS IN WHICH THE WEIGHT OF THE EQUIPMENTS DIVIDED BY ITS SURFACE AREA EXCEEDS THE INDICATED LIVE LOAD FOR THE LOCATION, THE
- CONTRACTOR SHALL NOTIFY THE EOR PRIOR TO SUBMISSION OF SHOP DRAWINGS. C. HANGING CEILING AND MECHANICAL LOADS: AN ALLOWANCE OF 5. PSF HAS BEEN MADE FOR HANGING CEILING AND MECHANICAL EQUIPMENTS SUCH AS DUCT WORK AND SPRINKLER PIPES. 3. LIVE LOADS:
- A. BALCONIES AND DECKS. ...1.5 x SAME AS OCCUPANCY SERVED B. PRIVATE ROOMS AND CORRIDORS SERVING THEM40 PSF C. PUBLIC ROOMS AND CORRIDORS SERVING THEM..... 100 PSF D. STAIRS AND EXITS100 PSF | 300 LB 4. ROOF LIVE LOAD 5. SNOW LOAD: A. GROUND SNOW LOAD, Pg: 6. WIND: A. ULTIMATE DESIGN WIND SPEED Vult 1.5 MPH (3-SEC PEAK GUST B. NOMINAL DESIGN WIND SPEED, Vasd:.... 89 MPH (3-SEC PEAK GUST) C. WIND EXPOSURE CATEGORY:.... D. INTERNAL PRESSURE COEFFICIENT: SEE SCHEDULE COMPONENTS AND CLADDING PRESSURE F. MAIN WIND FORCE RESISTING SYSTEM WOOD SHEAR WALLS
- A. 100-YEAR RAINFALL INTENSITY (IN/HR): B. MAXIMUM ROOF RAIN LOAD C. MAXIMUM RAINWATER LEVEL - PONDING (STATIC + HYDRAULIC HEAD):..... D. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED IF THE TOTAL RAIN WATER LEVEL EXCEEDS THE DESIGNED RAIN ROOF LOAD.
- 8. SEISMIC: MAPPED SPECTRAL RESPONSE VALUES, DESIGN SPECTRAL RESPONSE VALUES, AND AS SITE CLASS, HAVE BEEN PROVIDED BY A. GEOTECHNICAL COMPANY AND REPORT NO IDLEY REPORT NO.22-00
- B. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS, Ss & St 0.066 & 0.40 C. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS, SDS & SD1:----0.057 & 0.040
- D. SITE CLASS:..... E. SEISMIC DESIGN CATEGORY, SDC: % SEISMIC WEIGHT F. DESIGN BASE SHEAR:..

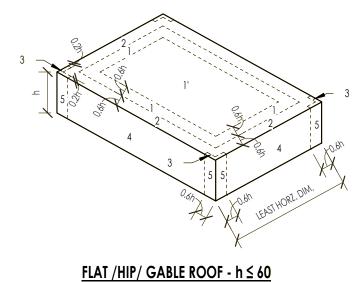
C&C - GROSS ULTIMATE WIND PRESSURES

Cladding	Location	Effective	Coefficients Wind pressur		ssures	
Туре		Area (sf)	+GCp	-GCp	+p (psf)	-p (psf)
Wall	Interior	10	0.90	-0.99	+30.6	-33.2
		40	0.80	-0.89	+27.9	-30.5
		50	0.79	-0.88	+27.5	-30.0
		100	0.74	-0.83	+26.1	-28.7
		500	0.63	-0.72	+23.0	-25.5
Wall	Edge	10	0.90	-1.26	+30.6	-40.8
	0-	40	0.80	-1.07	+27.9	-35.4
		50	0.79	-1.04	+27.5	-34.5
		100	0.74	-0.94	+26.1	-31.8
		500	0.63	-0.72	+23.0	-25.5
Roof	Interior	10	0.30	-1.00	+13.6	-33.5
		40	0.24	-0.94	+11.9	-31.8
		50	0.23	-0.93	+11.6	-31.5
		100	0.20	-0.90	+10.8	-30.6
		341	0.20	-0.90	+10.8	-30.6
Roof	Edge	10	0.90	-1.80	+30.6	-56.2
	_	40	0.80	-1.38	+27.9	-44.2
		50	0.79	-1.31	+27.5	-42.3
		100	0.74	-1.10	+26.1	-36.3
		500	0.63	-1.10	+23.0	-36.3
Roof	Corner	10	0.90	-1.80	+30.6	-56.2
		40	0.80	-1.38	+27.9	-44.2
		50	0.79	-1.31	+27.5	-42.3
		100	0.74	-1.10	+26.1	-36.3
		500	0.63	-1.10	+23.0	-36.3
Overhang	Interior	10	0.00	-1.70	+10.0	-48.2
	& Edge	40	0.00	-1.64	+10.0	-46.5
		50	0.00	-1.63	+10.0	-46.2
		100	0.00	-1.60	+10.0	-45.4
		500	0.00	-1.10	+10.0	-31.2
Overhang	Corner	10	0.00	-1.70	+10.0	-48.2
		40	0.00	-1.64	+10.0	-46.5
		50	0.00	-1.63	+10.0	-46.2
		100	0.00	-1.60	+10.0	-45.4
		500	0.00	-1.10	+10.0	-31.2
Parapet	Interior	10	2.70	-1.89	+76.6	-53.6
		40	2.18	-1.70	+61.9	-48.2
		50	2.10	-1.67	+59.6	-47.3
		100	1.84	-1.57	+52.2	-44.6
		500	1.73	-1.35	+49.1	-38.3
Parapet	Edge	10	2.70	-2.16	+76.6	-61.3
		40	2.18	-1.87	+61.9	-53.1
		50	2.10	-1.83	+59.6	-51.8
		100	1.84	-1.68	+52.2	-47.7
						1

a = MINIMUM OF (10% OF LEAST HORIZONTAL DIMENSION OR 0.4h) BUT NOT LESS THAN 4% OF LEAST HORIZONTAL DIMENSION OR 3FT

h = MEAN ROOF HEIGHT OF A BUILDING, EXCEPT THAT EAVE HEIGHT SHALL BE USED FOR ROOF ANGLES LESS THAN OR EQUAL TO 10° (~2:12 ROOF PITCH) MEAN ROOF HEIGHT = THE AVERAGE OF THE ROOF EAVE HEIGHT AND HEIGHT TO THE HIGHEST POINT ON THE ROOF SURFACE.





° (0:12) < SLOPE ≤ 7° (1.5:1

FOUNDATION DESIGN CRITERIA

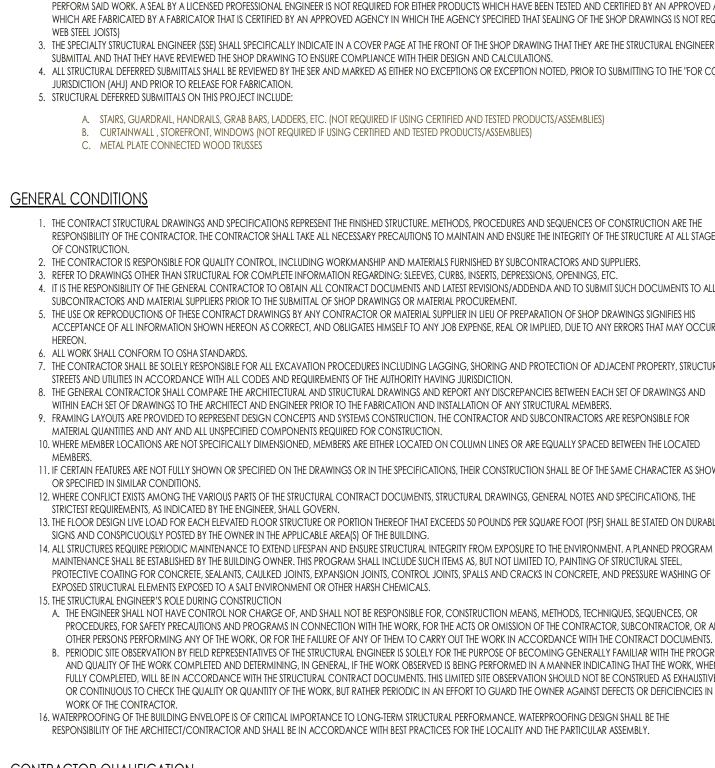
- . GEOTECHNICAL REPORT: THIS FOUNDATION DESIGN IS BASED ON THE RECOMMENDATIONS PROVIDED IN SITE-SPECIFIC GEOTECHNICAL REPORT. IN DESIGNING THE FOUNDATION FOR THE PROPOSED STRUCTURE, THE FOUNDATION DESIGN ENGINEER DOES NOT ASSUME RESPONSIBILITY FOR THE ACCURACY OF THE GEOTECHNICAL ENGINEER'S REPORT OR ANY INFORMATION CONTAINED THEREIN. INFORMATION CONTAINED IN THE GEOTECHNICAL REPORT(S) REFLECTS CONDITIONS AS FOUND AT THE LOCATION OF THE BORINGS. ACTUAL CONDITIONS AT LOCATIONS BETWEEN AND SURROUNDING THE BORINGS MAY DIFFER FROM THE SOIL STRATIGRAPHY DEPICTED BY THE BORINGS. IE THERE ARE ANY CONDITIONS DIFFERING FROM THOSE DESCRIBED IN THE GEOTECHNICAL REPORT, OR IF ANY CHANGES HAVE BEEN IMPOSED ON THE SOILS IN QUESTION SINCE THE REPORT WAS WRITTEN. THEN THE DESIGN ENGINEER OF RECORD SHOULD BE NOTIFIED IN WRITING PRIOR TO CONSTRUCTION OF THE FOUNDATION IN ORDER TO REVIEW THE EFFECTS ON THE PERFORMANCE OF THE DESIGNED FOUNDATION. A. GEOTECHNICAL ENGINEER: **DUDLEY** B. REPORT NUMBER: 22-00109
- C. REPORT DATE: APRIL 27, 2022 D. THE FOUNDATION DESIGN PARAMETERS PROVIDED WILL NOT ELIMINATE POST-CONSTRUCTION FOUNDATION MOVEMENT. AS SUCH, MEASURES SHALL BE TAKEN TO INCREASE THE TOLERANCE OF THE STRUCTURE SUPPORTED BY THE FOUNDATION. MEASURES INCLUDE BUT ARE NOT LIMITED TO FREQUENT CONTROL JOINTS FOR MASONRY/BRICK/STONE/STUCCO
- EXTERIOR VENEER (15'-0 MAXIMUM), VERTICALLY SLOTTED CLIPS TO ATTACH ROOF TRUSSES TO NON-LOAD BEARING WALLS. ETC ABNORMAL CONDITIONS: IF THE FOUNDATION IS INSTALLED DURING A DRY OR WET PERIOD, WHICH IS CONSIDERED EXTREME OR ABNORMAL, THEN THE BUILDER SHALL NOTIFY THE GEOTECHNICAL ENGINEER AND FOUNDATION ENGINEER PRIOR TO CONSTRUCTION FOR POSSIBLE SOIL CONDITIONING OR FOUNDATION RE-DESIGN.
- FOUNDATION MOVEMENT: THE FOUNDATION HAS BEEN DESIGNED WITH THE ASSUMPTION THAT MOVEMENT CAN BE TOLERATED WITHIN A STANDARD PERFORMANCE LIMIT: A. STANDARD PERFORMANCE DEFLECTION LIMIT: L/360 B. STANDARD PERFORMANCE TILT LIMIT: 1%
- . SOIL MOISTURE LEVEL: A REASONABLY UNIFORM SOIL MOISTURE LEVEL IS MAINTAINED AROUND THE FOUNDATION FOR THE LIFE OF THE STRUCTURE . FOUNDATION MAINTENANCE: POSITIVE DRAINAGE AWAY FROM THE STRUCTURE SHALL BE MAINTAINED FOR THE LIFE OF THE STRUCTURE AND THE CONTRACTOR SHALL CONVEY THIS REQUIREMENT TO THE OWNER. THE INITIAL AND ALL SUBSEQUENT OWNERS MAINTAIN THE FOUNDATION IN ACCORDANCE WITH THE LATEST REVISION OF DOCUMENT NO. FPA-SC-07. "FOUNDATION MAINTENANCE AND INSPECTION GUIDE FOR RESIDENTIAL AND OTHER LOW-RISE BUILDINGS", AVAILABLE ON THE FOUNDATION PERFORMANCE ASSOCIATION'S WEBSITE:
- WWW.FOUNDATIONPERFORMANCE.ORG. CONTRACTOR SHALL PROVIDE THIS DOCUMENT TO OWNER. 6. EXPIRATION: PLANS ARE VALID FOR 6-MONTHS FROM THE DATE THE PLANS ARE ISSUED OR REVISED BY THE ENGINEER. CONTACT ENGINEER FOR REVIEW IF PLANS HAVE EXPIRED OR IF CONSTRUCTION OF THE FOUNDATION HAS NOT COMMENCED WITHIN THIS TIME FRAME.

LATERAL LOAD RESISTING SYSTEM

1. ALL LATERAL LOAD RESISTANCE AND STABILITY OF THE BUILDING IS PROVIDED EXCLUSIVELY BY VERTICAL LATERAL LOAD RESISTING SYSTEM. THE HORIZONTAL DIAPHRAGMS DISTRIBUTE THE LATERAL WIND AND SEISMIC FORCES HORIZONTALLY TO THE VERTICAL LATERAL LOAD RESISTING SYSTEM. A. VERTICAL LATERAL LOAD RESISTING SYSTEM: WOOD-FRAMED SHEAR WALLS B. HORIZONTAL LATERAL LOAD RESISTING SYSTEM: WOOD STRUCTURAL PANEL ROOF DECK

STAIR, HANDRAILS, RESTROOM ACCESSORIES AND GUARDRAIL SPECIFICATIONS:

- 1. ALL STAIRS, GUARDRAILS AND HANDRAILS SHALL BE DESIGNED BY A REGISTERED STRUCTURAL ENGINEER BASED ON THE FOLLOWING DESIGN CRITERIA: A. STAIRS:
- a. STAIR STRINGERS, TREADS AND RISERS SHALL BE DESIGNED TO SUPPORT 100 PSF LIVE LOAD. b. INDIVIDUAL STAIR TREADS SHALL BE DESIGNED TO SUPPORT A 300 LB CONCENTRATED LOAD PLACED IN A POSITION THAT WOULD CAUSE THE MAX STRESS
- B. HANDRAIL AND GUARDS a. GUARD TOP RAIL AND HANDRAILS: THE TOP RAIL OF GUARDRAILS AND HANDRAILS SHALL BE DESIGNED TO WITHSTAND A LOAD OF 50 PLF APPLIED HORIZONTALLY AT RIGHT ANGLES, OR A 200 LB CONCENTRATED LOAD IN ANY DIRECTION b. INTERMEDIATE RAILS, PANEL FILLER AND THEIR CONNECTIONS SHALL BE DESIGNED TO WITHSTAND A LOAD OF 50 PSF APPLIED HORIZONTALLY AT RIGHT ANGLES OVER THE ENTIRE TRIBUTARY AREA, INCLUDING OPENINGS AND SPACES BETWEEN RAILS.
- C. RESTROOM ACCESSORIES: a. GRAB BARS, TUB AND SHOWER SEATS, FASTENERS, AND MOUNTING DEVICES SHALL BE DESIGNED TO RESIST A CONCENTRATED LOAD OF 250 POUNDS AT ANY LOCATION AND IN ANY DIRECTION.



CONTRACTOR QUALIFICATION

<u>FUTURE EXPANSION</u>

REQUEST FOR INFORMATION (RFI)

<u>SUBMITTALS</u>

 SUBMITTAL LIST AND SCHEDULE LIST SHALL BE UPDATED AND REVISED AS THE JOB PROGRESSES. 2. SUBMITTAL REQUIREMENTS B. ALL SUBMITTALS MUST INCLUDE A TRANSMITTAL SHEET WHICH INDICATES: CONCRETE SUBMITTAL) b. BRIEF DESCRIPTION OF SUBMITTAL CONTENTS C. DATE ISSUED d. REQUESTED RETURN DATE e. ISSUING PARTY INCLUDING NAME, PHONE NUMBER AND EMAIL THE STRUCTURAL ENGINEER

A. NO EXCEPTIONS B. EXCEPTIONS NOTED

- C. REVISE AND RESUBMIT D. NOT REVIEWED
- E. FOR INFORMATION ONLY F. IMPACT TO STRUCTURE

INSPECTIONS

A. FOUNDATION INSPECTION: B CONCRETE SLAB AND LINDER-FLOOR INSPECTION. PIPING ACCESSORIES AND OTHER ANCILLARY EQUIPMENT ITEMS ARE IN PLACE, BUT BEFORE ANY CONCRETE IS PLACED OR FLOOR SHEATHING INSTALLED, INCLUDING THE SUBFLOOR. C. FRAME INSPECTION

DRAWING INTERPRETATION

DRAWING VIEWS LABELED AS TYPICAL

REINFORCING STEEL - 03 20 00

- DETAILING MANUAL) DURING THE PLACING OF CONCRETE.
- CONCRETE COVER NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE IN ACCORDANCE WITH ACI 318.
- B. CONCRETE EXPOSED TO EARTH OR WEATHER:
- a. NO. 6 AND LARGER b. NO. 5 BAR AND SMALLER

. STRUCTURAL DEFERRED SUBMITTALS ARE THOSE PORTIONS OF THE DESIGN WHICH REQUIRE STRUCTURAL ENGINEERING THAT ARE NOT SUBMITTED AT THE TIME OF THE APPLICATION BUT ARE TO BE SUBMITTED TO THE BUILDING OFFICIAL AT A LATER DATE. DEFERRED SUBMITTALS SHALL BE SUBMITTED TO AND APPROVED BY THE BUILDING OFFICIAL PRIOR TO INSTALLATION OF ANY SAID WORK.

2. COMPLETE STRUCTURAL SHOP DRAWINGS FOR CONSTRUCTION OF EACH BUILDING COMPONENT NOT DESIGNED BY THE STRUCTURAL ENGINEER-OF-RECORD (SER) AND NOT SPECIFIED ON THE PROJECT CONSTRUCTION DOCUMENTS SHALL BE SEALED AND SIGNED BY A SPECIALTY STRUCTURAL ENGINEER (SSE) WHO IS A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS BEING CONSTRUCTED WHO IS QUALIFIED TO PERFORM SAID WORK. A SEAL BY A LICENSED PROFESSIONAL ENGINEER IS NOT REQUIRED FOR EITHER PRODUCTS WHICH HAVE BEEN TESTED AND CERTIFIED BY AN APPROVED AGENCY SUCH AS THE ICC NOR FOR COMPONENTS WHICH ARE FABRICATED BY A FABRICATOR THAT IS CERTIFIED BY AN APPROVED AGENCY IN WHICH THE AGENCY SPECIFIED THAT SEALING OF THE SHOP DRAWINGS IS NOT REQUIRED (E.G. STEEL JOIST INSTITUTE IN REGARDS TO OPEN 3. THE SPECIALTY STRUCTURAL ENGINEER (SSE) SHALL SPECIFICALLY INDICATE IN A COVER PAGE AT THE FRONT OF THE SHOP DRAWING THAT THEY ARE THE STRUCTURAL ENGINEER IN RESPONSIBLE CHARGE FOR THE DEFERRED SUBMITTAL AND THAT THEY HAVE REVIEWED THE SHOP DRAWING TO ENSURE COMPLIANCE WITH THEIR DESIGN AND CALCULATIONS.

4. ALL STRUCTURAL DEFERRED SUBMITTALS SHALL BE REVIEWED BY THE SER AND MARKED AS EITHER NO EXCEPTIONS OR EXCEPTION NOTED, PRIOR TO SUBMITTING TO THE "FOR CONSTRUCTION" VERSION TO THE AUTHORITY HAVING

A. STAIRS, GUARDRAIL, HANDRAILS, GRAB BARS, LADDERS, ETC. (NOT REQUIRED IF USING CERTIFIED AND TESTED PRODUCTS/ASSEMBLIES) B. CURTAINWALL, STOREFRONT, WINDOWS (NOT REQUIRED IF USING CERTIFIED AND TESTED PRODUCTS/ASSEMBLIES)

1. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES

3. REFER TO DRAWINGS OTHER THAN STRUCTURAL FOR COMPLETE INFORMATION REGARDING: SLEEVES, CURBS, INSERTS, DEPRESSIONS, OPENINGS, ETC. 4. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN ALL CONTRACT DOCUMENTS AND LATEST REVISIONS/ADDENDA AND TO SUBMIT SUCH DOCUMENTS TO ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS OR MATERIAL PROCUREMENT. 5. THE USE OR REPRODUCTIONS OF THESE CONTRACT DRAWINGS BY ANY CONTRACTOR OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT, AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, DUE TO ANY ERRORS THAT MAY OCCUR

7. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH ALL CODES AND REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. 8. THE GENERAL CONTRACTOR SHALL COMPARE THE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND REPORT ANY DISCREPANCIES BETWEEN EACH SET OF DRAWINGS AND WITHIN EACH SET OF DRAWINGS TO THE ARCHITECT AND ENGINEER PRIOR TO THE FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBERS. 9. FRAMING LAYOUTS ARE PROVIDED TO REPRESENT DESIGN CONCEPTS AND SYSTEMS CONSTRUCTION. THE CONTRACTOR AND SUBCONTRACTORS ARE RESPONSIBLE FOR MATERIAL QUANTITIES AND ANY AND ALL UNSPECIFIED COMPONENTS REQUIRED FOR CONSTRUCTION. 10. WHERE MEMBER LOCATIONS ARE NOT SPECIFICALLY DIMENSIONED, MEMBERS ARE EITHER LOCATED ON COLUMN LINES OR ARE EQUALLY SPACED BETWEEN THE LOCATED 11. IF CERTAIN FEATURES ARE NOT FULLY SHOWN OR SPECIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS SHOWN 12. WHERE CONFLICT EXISTS AMONG THE VARIOUS PARTS OF THE STRUCTURAL CONTRACT DOCUMENTS, STRUCTURAL DRAWINGS, GENERAL NOTES AND SPECIFICATIONS, THE 13. THE FLOOR DESIGN LIVE LOAD FOR EACH ELEVATED FLOOR STRUCTURE OR PORTION THEREOF THAT EXCEEDS 50 POUNDS PER SQUARE FOOT (PSF) SHALL BE STATED ON DURABLE SIGNS AND CONSPICUOUSLY POSTED BY THE OWNER IN THE APPLICABLE AREA(S) OF THE BUILDING. 14. ALL STRUCTURES REQUIRE PERIODIC MAINTENANCE TO EXTEND LIFESPAN AND ENSURE STRUCTURAL INTEGRITY FROM EXPOSURE TO THE ENVIRONMENT. A PLANNED PROGRAM OF MAINTENANCE SHALL BE ESTABLISHED BY THE BUILDING OWNER. THIS PROGRAM SHALL INCLUDE SUCH ITEMS AS, BUT NOT LIMITED TO, PAINTING OF STRUCTURAL STEEL,

A. THE ENGINEER SHALL NOT HAVE CONTROL NOR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSION OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. B. PERIODIC SITE OBSERVATION BY FIELD REPRESENTATIVES OF THE STRUCTURAL ENGINEER IS SOLELY FOR THE PURPOSE OF BECOMING GENERALLY FAMILIAR WITH THE PROGRESS and quality of the work completed and determining, in general, if the work observed is being performed in a manner indicating that the work, when FULLY COMPLETED, WILL BE IN ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHOULD NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OR QUANTITY OF THE WORK, BUT RATHER PERIODIC IN AN EFFORT TO GUARD THE OWNER AGAINST DEFECTS OR DEFICIENCIES IN THE 16. WATERPROOFING OF THE BUILDING ENVELOPE IS OF CRITICAL IMPORTANCE TO LONG-TERM STRUCTURAL PERFORMANCE. WATERPROOFING DESIGN SHALL BE THE RESPONSIBILITY OF THE ARCHITECT/CONTRACTOR AND SHALL BE IN ACCORDANCE WITH BEST PRACTICES FOR THE LOCALITY AND THE PARTICULAR ASSEMBLY.

1. WORK SHALL BE PERFORMED BY A QUALIFIED CONSTRUCTION CONTRACTOR AND SUBCONTRACTOR EXPERIENCED IN THIS TYPE OF WORK. SUCH KNOWLEDGE SHALL INCLUDE MAKING ALLOWANCES FOR PERFORMING WORK OF THIS NATURE FOLLOWING INDUSTRY STANDARDS OF CARE. 2. THE CONSTRUCTION CONTRACTOR AND SUBCONTRACTORS SHALL UNDERSTAND THE NATURE OF DRAWING PRODUCTION AND COORDINATION BETWEEN CONSULTANTS AND SHALL NOT ENTER INTO A CONTRACT BASED ON DRAWINGS THAT ARE BELIEVED TO CONTAIN DISCREPANCIES OR ARE OTHERWISE INCOMPLETE UNLESS PROPER ALLOWANCES HAVE BEEN MADE FOR COST IMPLICATIONS THAT MAY ARISE DUE TO FUTURE DRAWING CHANGES MADE IN PREPARATION OF FINAL CONSTRUCTION DOCUMENTS. 3. IN THE COURSE OF PRODUCING AND ISSUING DRAWINGS, VARIOUS STAGES OF COMPLETION ARE DEVELOPED. THE CONSTRUCTION CONTRACTOR AND SUBCONTRACTORS SHALL UNDERSTAND THE PURPOSE AND CONTENT CONTAINED IN PERMIT, PRICING, AND CONSTRUCTION DRAWINGS. COST IMPLICATIONS AND CONTRACTIBILITY ARE THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR AND SUBCONTRACTORS UNLESS PRIOR ARRANGEMENTS HAVE BEEN MADE WITH THE OWNER.

1. NO PROVISIONS FOR ANY FUTURE EXPANSION HAVE BEEN MADE IN THE STRUCTURAL DESIGN

1. ALL REQUESTS FOR SUBSTITUTIONS OF MATERIALS OR DETAILS SHOWN IN THE CONTRACT DOCUMENTS SHALL BE SUBMITTED FOR APPROVAL DURING THE BIDDING PERIOD. ONCE BIDS ARE ACCEPTED, PROPOSED SUBSTITUTIONS WILL BE CONSIDERED ONLY WHEN THEY ARE OFFICIALLY SUBMITTED WITH AN IDENTIFIED SAVINGS TO BE DEDUCTED FROM THE

AL SHEET THAT INDICATES THE FOLLOWING:

REQUIRED ONSTRUCTION DOCUMENTS

AND PHONE NUMBER) ID/OR SPECIFICATION NUMBER IF APPLICABLE

A. THE GENERAL CONTRACTOR SHALL PREPARE A DETAILED LIST AND SCHEDULE OF ALL SUBMITTAL ITEMS TO BE SENT TO THE STRUCTURAL ENGINEER PRIOR TO THE START OF CONSTRUCTION. THIS

A. ALL SUBMITTALS MUST BE REVIEWED AND ELECTRONICALLY STAMPED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL TO THE DESIGN TEAM AS NO EXCEPTIONS.

a. SUBMITTAL NUMBER PER THE FOLLOWING FORMAT: E.G. 03 30 00-01.00 (DIVISION, SUBMITTAL # FOR DIVISION, ISSUE # - THE EXAMPLE INDICATES THE FIRST SUBMITTAL, FIRST ISSUE OF A

C. CONTRACTOR SHALL PROVIDE THE SUBMITTAL IN ELECTRONIC (PDF) FORMAT. SUBMITTALS SHALL NOT BE SCANNED COPIES OF PRINTED DOCUMENTS.

D. THE OMISSION FROM THE SHOP DRAWINGS OF ANY MATERIALS REQUIRED BY THE CONTRACT DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF FURNISHING AND INSTALLING SUCH MATERIALS, REGARDLESS OF WHETHER SHOWN OR COMMENTED IN THE SHOP DRAWING E. THE CONTRACTOR MUST ALLOW A MINIMUM OF 14 DAYS FOR STRUCTURAL REVIEW OF ALL SUBMITTALS. THE CONTRACTOR CAN REQUEST AN EXPEDITED REVIEW AT AN AGREED UPON FEE WITH F. STRUCTURAL STEEL SUBMITTALS MUST BE ACCOMPANIED BY THE SDS/2 OR TEKLA MODEL WHICH WILL BE USED BY THE DESIGN TEAM AS A VISUAL AID TO THE SHOP DRAWINGS.

3. REFER TO THE SPECIFICATIONS FOR A LIST OF ALL THE REQUIRED SUBMITTALS. 4. ENGINEER REVIEW STAMP DESIGNATIONS: ALL DESIGNATIONS ARE INDICATIVE OF A REVIEW FOR GENERAL CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS.

a. NO ITEMS WERE FOUND TO BE IN CONFLICT WITH THE CONSTRUCTION DOCUMENTS, NO "FOR REVIEW" RESUBMITTAL REQUIRED.

a. ITEMS WERE FOUND IN CONFLICT WITH THE CONSTRUCTION DOCUMENTS AND NEED TO BE REVISED PRIOR TO SUBMITTING "FOR CONSTRUCTION" SUBMITTAL

a. SIGNIFICANT ITEMS WERE FOUND IN CONFLICT WITH THE CONSTRUCTION DOCUMENTS. THE SUBMITTAL NEEDS TO BE RESUBMITTED "FOR REVIEW"

a. THE SUBMITTAL WAS NOT STRUCTURAL. a. THE SUBMITTAL DID NOT REQUIRE REVIEW BUT HAS BEEN FILED FOR THE RECORD.

a. THE SUBMITTAL HAS BEEN REVIEWED FOR THE STRUCTURALLY IMPACT TO THE STRUCTURE ONLY

1. CONSTRUCTION OR WORK FOR WHICH A PERMIT IS REQUIRED SHALL BE SUBJECT TO INSPECTION BY THE BUILDING OFFICIAL AND SUCH CONSTRUCTION OR WORK SHALL REMAIN ACCESSIBLE AND EXPOSED FOR INSPECTION PURPOSES UNTIL APPROVED. REQUIRED TESTING INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING: a. FOOTING AND FOUNDATION INSPECTIONS SHALL BE MADE AFTER EXCAVATIONS FOR FOOTINGS ARE COMPLETE AND ANY REQUIRED REINFORCING STEEL IS IN PLACE. FOR CONCRETE FOUNDATIONS, ANY REQUIRED FORMS SHALL BE IN PLACE PRIOR TO INSPECTION. MATERIALS FOR THE FOUNDATION SHALL BE ON THE JOB, EXCEPT

WHERE CONCRETE IS READY MIXED IN ACCORDANCE WITH ASTM C94, THE CONCRETE NEED NOT BE ON THE JOB. a. CONCRETE SLAB AND UNDER-FLOOR INSPECTIONS SHALL BE MADE AFTER IN-SLAB OR UNDER-FLOOR REINFORCING STEEL AND BUILDING SERVICE EQUIPMENT. CONDUIT.

a. FRAMING INSPECTIONS SHALL BE MADE AFTER THE ROOF DECK OR SHEATHING, ALL FRAMING, FIREBLOCKING AND BRACING ARE IN PLACE AND PIPES, CHIMNEYS AND VENTS TO BE CONCEALED ARE COMPLETE AND THE ROUGH ELECTRICAL, PLUMBING, HEATING WIRES, PIPES AND DUCTS ARE APPROVED. . SPECIAL INSPECTIONS - REFER TO THE STATEMENT OF SPECIAL INSPECTION FOR REQUIRED STRUCTURAL SPECIAL INSPECTIONS . ADDITIONAL INSPECTIONS REQUIRED BY STRUCTURAL ENGINEER: REFERENCE SPECIFICATIONS

A. PARTIAL PLANS, ELEVATIONS, SECTIONS, DETAIL OR SCHEDULES LABELED WITH "TYPICAL" AT THE BEGINNING OF THEIR TITLE SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THE THOSE SPECIFICALLY SHOWN. THE APPLICABILITY OF THE CONTENT OF THESE VIEWS TO LOCATIONS ON THE PLAN CAN BE DETERMINED FROM THE TITLE OF THE VIEW. SUCH VIEWS SHALL APPLY WHETHER OR NOT THEY ARE KEYED IN AT EACH LOCATION, DECISIONS REGARDING APPLICABILITY OF THESE "TYPICAL" VIEWS SHALL BE DETERMINED BY THE STRUCTURAL ENGINEER. 2. COLOR: THESE DRAWINGS ARE INTENDED TO BE VIEWED IN COLOR. IF THE FOLLOWING COLORS ARE NOT RED _ GREEN BLUE THEN THIS DRAWING SET IS NOT BEING VIEWED AS INTENDED. 3. SCALE: IF THE FOLLOWING LINE IS NOT EXACTLY 1" LONG, THEN THIS SET HAS BEEN SCALED.

1. DETAILING OF CONCRETE REINFORCEMENT BARS AND ACCESSORIES SHALL CONFORM TO THE RECOMMENDATIONS OF THE ACI DETAILING MANUAL ACI 315 AND SP-66 (ACI 2. CONCRETE REINFORCEMENT BARS SHALL CONFORM TO ASTM A615, GRADE 60, WITH SUPPLEMENTARY REQUIREMENTS. 3. COMPLETE REINFORCING PLACEMENT DRAWINGS PREPARED IN ACCORDANCE WITH ACI315 SHALL BE REVIEWED BY THE ENGINEER AND AVAILABLE ON THE JOB SITE PRIOR TO & 4. ALL REINFORCING STEEL SHALL BE SUPPORTED AT DESIGNED DEPTH USING PLASTIC OR METALLIC CHAIRS SPACED AT 48" OC IN ALL DIRECTIONS TO SUPPORT FULL LENGTH OF REINFORCEMENT. IF ALTERNATE IS TO BE USED, PROPOSED CHAIR IS TO BE SUBMITTED IN WRITING AND APPROVED BY E.O.R. 5. END HOOKS, DEVELOPMENT LENGTHS, AND SPLICES SHALL CONFORM TO THE REQUIREMENTS OF ACI 318. 6. REINFORCEMENT MAY BE PLACED IN BUNDLES OF NOT MORE THAN TWO W/ THE CLEAR DISTANCE BETWEEN BUNDLES OF REINFORCEMENT OR TENDONS OF 3 INCHES MINIMUM.

7. COVERAGE: THE FOLLOWING SHALL BE THE MINIMUM REINFORCEMENT CONCRETE COVERAGE (INCLUDING TENDONS):

8. UNO, ALL LAP SPLICES OF REINFORCEMENT IN GROUND SUPPORTED ELEMENTS (GRADE BEAMS, FOOTINGS, MAT FOUNDATIONS) SHALL BE A MINIMUM OF 48Ø, WHERE Ø = THE DIAMETER OF THE BAR, REINFORCEMENT IN ELEVATED STRUCTURES SHALL REFER TO THE TYPICAL LAP SPLICE DETAIL.

REINFORCED CONCRETE - 03 30 00

A. CONCRETE WORK SHALL CONFORM TO THE LATEST ED. OF ACI 301 (SPECIFICATIONS FOR STRUCTURAL CONCRETE) UNO IN THESE CONSTRUCTION DOCUMENTS. 2. MIX DESIGN A. ALL CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED REGISTERED ENGINEER. MIX DESIGN DATA RESULTS EITHER COMPLYING WITH THE FIELD EXPERIENCE OR TRIAL MIXTURE METHOD PER ACI 301/318 SHALL BE SUBMITTED FOR EACH CONCRETE MIX. PROPORTIONS OF MATERIALS FOR CONCRETE SHALL BE ESTABLISHED TO a. PROVIDE WORKABILITY AND CONSISTENCY TO PERMIT CONCRETE TO BE WORKED READILY INTO FORMS AND AROUND REINFORCEMENT UNDER CONDITIONS OF PLACEMENT TO BE EMPLOYED, WITHOUT SEGREGATION OR EXCESSIVE BLEEDING. b. MEET REQUIREMENTS FOR APPLICABLE EXPOSURE REQUIREMENTS. c. MEET OR EXCEED THE REQUIRED F'C. d. NOT EXCEED THE MAXIMUM W/C RATIO B THE CONTRACTOR MUST INDICATE THE PLANNED PLACEMENT METHOD FOR EACH CONCRETE MIX C. WATER MAY NOT BE ADDED TO THE CONCRETE MIX IN THE FIELD TO ADJUST THE SLUMP (RETEMPERING) WITHOUT THE SPECIAL INSPECTOR BEING PRESENT TO CONFIRM THAT IT DOES NOT EXCEED THE W/C RATIO OR DESIGN SLUMP. THE READY-MIX COMPANY MUST INDICATE THE MAXIMUM WATER WITHHELD AT THE PLANT. IF THE AMOUNT, THE W/C RATIO OR DESIGN SLUMP IS EXCEEDED THEN THE CONCRETE SHALL BE REJECTED. D. SLUMP TESTS SHALL BE PERFORMED AT THE POINT OF PLACEMENT WITH THE EXCEPTIONS NOTED BELOW: a. IF THE POINT OF DELIVERY IS THE SAME AS THE POINT OF PLACEMENT (CONCRETE IS PLACED DIRECTLY FROM TRUCK) b. IF THE CONTRACTOR HAS DEVELOPED AN ACCEPTABLE (APPROVED BY SPECIAL INSPECTOR AND EOR) CORRELATION BETWEEN FRESH CONCRETE PROPERTIES AT THE POINT OF DELIVERY AND E. AIR-ENTRAINED CONCRETE SHALL NOT BE USED IN ANY NORMALWEIGHT CONCRETE FLOOR SLAB THAT IS TO RECEIVE A HARD-TROWELED FINISH 3. CONCRETE MATERIALS: A. HYDRAULIC CEMENT a. USE ASTM C150 TYPE I OR TYPE III, EXCEPT WHERE SPECFICALLY INDICATED OTHERWISE IN TABLE BELOW. B. FLY ASH: a. FLY ASH MAY BE USED TO REPLACE A PORTION OF THE PORTLAND CEMENT, SUBJECT TO THE APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER NOT TO EXCEED THE AMOUNTS LISTED IN THE CONCRETE TABLE. b. USE ASTM C618 CLASS C OR F. C. NORMAL WEIGHT AGGREGATE: a. USE ASTM C33. b. MATERIAL CERTIFICATES FROM THE AGGREGATE SUPPLIER MUST BE SUBMITTED WITH THE CONCRETE MIX DESIGN c. RIVER ROCK OR PEA STONE AGGREGATES ARE NOT ACCEPTABLE. D. WATER COMPLY WITH THE REQUIREMENTS OF ASTM C1602. 4. CHLORIDE ION A. FOR CORROSION PROTECTION OF REINFORCEMENT IN CONCRETE, MAXIMUM WATER SOLUBLE ION CONCENTRATIONS IN HARDENED CONCRETE AT AGES FROM 28 TO 42 DAYS CONTRIBUTED FROM THE THE INGREDIENTS INCLUDING WATER, AGGREGATES, CEMENTITIOUS MATERIALS, AND ADMIXTURES SHALL NOT EXCEED THE LIMITS INDICATED IN THE TABLE BELOW. 5. PLACEMENT A. CONCRETE SHALL BE PLACED CAREFULLY SO AS NOT TO DEVIATE REINFORCEMENT FROM THE DESIGN LOCATION.

B. CONCRETE SHALL BE PROPERLY VIBRATED, ESPECIALLY AROUND POST-TENSIONED ANCHORAGES AND CONGESTED AREAS SUCH AS COLUMN JOINTS. C. PLACEMENT OF CONCRETE SHALL BE COMPLETED WITHIN 90 MINUTES AFTER THE INTRODUCTION OF THE MIXING WATER, IN ACCORDANCE WITH ASTM C94. D. TOLERANCES FOR CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST ED. OF ACI 117 (SPECIFICATION FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS).

f'c

3,500

CONCRETE FINISHING AND CURING

ELEMENT

INTERIOR SLABS-ON-GROUNDA

- . FINISHING: FINISHING OPERATIONS AND BULL FLOATING SHALL BE COMPLETED PRIOR TO THE ACCUMULATION OF BLEED WATER ON THE SURFACE. FINAL FINISHING SHOULD NOT BEGIN UNTIL THE BLEED WATER HAS EVAPORATED AND THE WATER SHEEN HAS DISAPPEARED FROM THE SURFACE. TROWELLING THE WET SURFACE WILL WEAKEN IT AND CAN RESULT IN SURFACE CRAZING AND
- DUSTING. REFER TO ARCHITECTURE FOR FINAL FINISHING REQUIREMENTS (STEEL TROWEL, BROOM FINISH, ETC.).
- BLEED WATER IS TO DRAG THE SURFACE WITH A GARDEN HOSE. 3. CONTROL JOINTS (SAW CUTS) IF REQUIRED, SHALL BE MADE AS SOON AS THE CONCRETE CAN SUPPORT THE WEIGHT OF WORKER AND THE EQUIPMENT.
- 4. CURING: IMMEDIATELY AFTER FINISHING THE SLAB, THE SLAB MUST BE CURED FOR A MINIMUM OF 7 DAYS BY EITHER: A. APPLYING A WATER-BASED DISSIPATING RESIN TYPE CURING COMPOUND WHICH CHEMICALLY BREAKS DOWN AFTER APPROXIMATELY 4 WEEKS. MEMBRANE FORMING COMPOUND SHALL
- ADHERE TO ASTM C 309, TYPE O OR 1D, CLASS B. THE COMPOUND SHALL BE APPLIED IN TWO COATS, EACH AT RIGHT ANGLES TO THE OTHER TO ENSURE A TIGHTLY SEALED SURFACE. B. WET-CURED BY KEEPING THE SURFACE WET AFTER THE CONCRETE HAS SET AND FINISHING IS COMPLETE.

EXPOSURE CATEGORY

F0,S0,P(W)0,C1

CONCRETE CRACKS

1. EVEN WITH PROPER DESIGN AND CONSTRUCTION ALL CONCRETE WILL CRACK. PLASTIC SHRINKAGE CRACKS CONTINUE TO OPEN AS THE SLAB AGES UP TO APPROXIMATELY ONE YEAR, AND REACH 50% OF THEIR FINAL SIZE IN APPROXIMATELY 30 DAYS, MANY PLASTIC SHRINKAGE CRACKS ARE VERY SMALL WHICH MAKE THEM BARELY NOTICEABLE AND INCONSEQUENTIAL TO THE STRUCTURAL

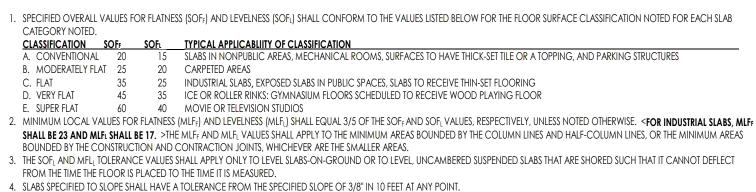
FINISHING AND CURING REQUIREMENTS. IN ADDITION TO BEING VISIBLY OBJECTIONABLE, IF THESE CRACKS EXIST IN REGULAR CONSISTENCY, THEY MAY REDUCE THE STRUCTURAL PERFORMANCE OF THE CONCRETE AND REQUIRE STRUCTURAL REPAIR (FILL CRACKS WITH EPOXY PRODUCT) OR REPLACEMENT. 2. PLASTIC SHRINKAGE CRACKS: OCCUR SOON AFTER THE CONCRETE IS PLACED AND WHILE IT IS STILL PLASTIC. IT IS CAUSED BY OVERLY RAPID DRYING OF THE SURFACE, USUALLY DUE TO HOT

WEATHER, HIGH WIND, LOW HUMIDITY, OR A DELAY IN APPLYING THE CURING MEMBRANE.

ETEMPERING (ADDING WATER TO CONCRETE ON-SITE)

1. WATER SHALL NOT BE ADDED TO THE MIX TRUCKS ON THE JOB SITE IN EXCESS OF THE VOLUME OF WATER THAT IS SPECIFICALLY INDICATED TO HAVE BEEN WITHHELD FROM THE READY MIX . PRIOR TO ADDING WATER, THE CONTRACTOR SHALL CONFIRM THAT THE MIX IS NOT ALREADY WITHIN TOLERANCE ON SLUMP. WATER SHALL ONLY BE ADDED IF THE SLUMP IS BELOW TOLERANCE AND THE READY MIX SUPPLIER HAD INDICATED THE VOLUME OF WITHHELD (TRIM) WATER.

FLOOR FLATNESS AND LEVELNESS



STRUCTURAL STEEL - 05 12 00

T = 5/16

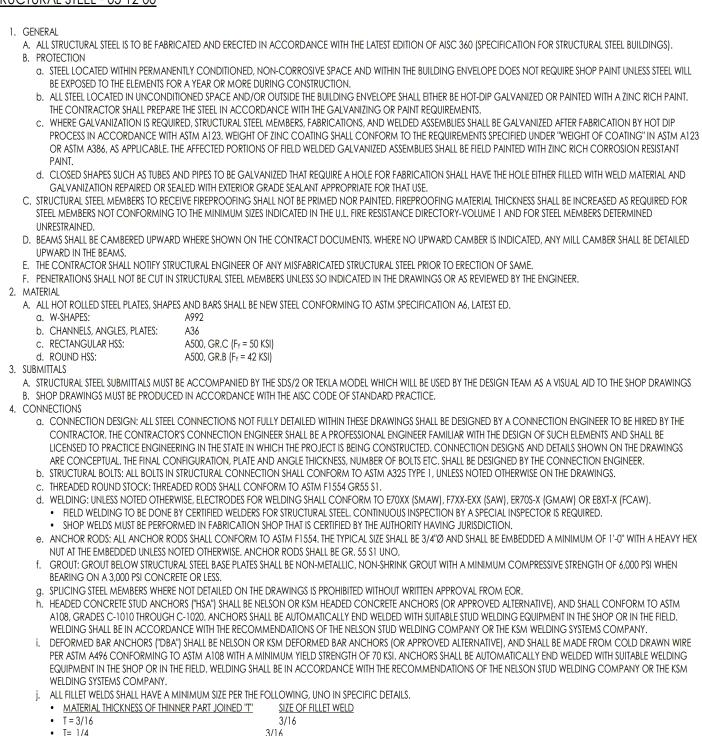
T = 3/8

T = 7/16

T = 1/2

T = 3/4

T > 3/4"



5/16

WOOD FRAMING SPECIFICATIONS (06 10 00):

MAX CL-	max fly ash	MAX W/CM RATIO	MAX COARSE AGG. SIZE	MIN. AIR CONTENT
0.30	20%	0.45	ן"	N/A

2. EXCESSIVE BLEED WATER REMOVAL: BLEEDING (FREE SURFACE WATER) OCCURS AS AGGREGATES SETTLE IN THE PLACED CONCRETE, DISPLACING WATER TO THE SURFACE. IF ALLOWED TO REMAIN ON THE SURFACE, IT DILUTES THE CEMENT CONTENT, SIGNIFICANTLY REDUCING THE STRENGTH NEAR THE SURFACE. THE CONTRACTOR SHALL REMOVE BLEED WATER. ONE METHOD OF REMOVING

PERFORMANCE OF THE CONCRETE. CRACKS WIDER THAN APPROXIMATELY 0.06" ARE LIKELY INDICATIVE OF CONCRETE THAT DID NOT ADHERE TO THE CONCRETE MIX REQUIREMENTS, PLACEMENT,

- SLABS IN NONPUBLIC AREAS, MECHANICAL ROOMS, SURFACES TO HAVE THICK-SET TILE OR A TOPPING, AND PARKING STRUCTURES

1. WOOD FRAMING SIZES, FIRESTOPS, ANCHORAGE, FURRING AND CONNECTORS NOT SHOWN ON THE CONSTRUCTION DOCUMENTS SHALL AT A MINIMUM ADHERE TO THE

- a. STUD GRADE SOUTHERN YELLOW PINE b. STUD GRADE DOUGLAS FIR-LARCH
- c. VERTICAL STUD USE ONLY CERTIFIED FINGER-JOINTED OF HEM-FIR, SOUTHERN PINE OR DOUGLAS-FIR HRA DESIGNATION (HEAT RESISTANT ADHESIVE) REQUIRED FOR STUDS IN FIRE-RESISTANCE RATED ASSEMBLIES.
- B. JOISTS: a. NO.2 GRADE SOUTHERN YELLOW PINE
- b. NO.2 GRADE DOUGLAS FIR-LARCH C. LAMINATED VENEER LUMBER (LVL) BEAM / HEADER / GIRDER
- a. WEYERHAEUSER 2.0E MICROLAM LVL b. BOISE CASCADE VERSA-LAM 2.0E 3100Fb D. GLUED LAMINATED (GLULAM) BEAM / HEADER / GIRDER:
- a. 31/2" & 51/2" WIDE: ANTHONY POWER BEAM 3000Fb 2.1E 300Fv b. 7" WIDE: ANTHONY POWER BEAM 2800Fb - 2.1E - 300Fv
- E. RAFTERS: a. NO.2 GRADE SOUTHERN YELLOW PINE
- b. NO.2 GRADE DOUGLAS FIR-LARCH c. NO.2 STRUCTURAL FINGER-JOINTED OF HEM-FIR, SOUTHERN PINE OR DOUGLAS FIR
- HRA DESIGNATION (HEAT RESISTANT ADHESIVE) REQUIRED FOR STUDS IN FIRE-RESISTANCE RATED ASSEMBLIES F POSTS
- a. DIMENSIONAL LUMBER/TIMBERS: NO.2 GRADE SOUTHERN YELLOW PINE OR DOUGLAS FIR-LARCH b. PARALLEL STRAND LUMBER (PSL): TRUSJOIST 1.8E PARALLAM PSL POSTS G. PLATES:
- a. NO.3 GRADE SOUTHERN YELLOW PINE b. NO.3 GRADE DOUGLAS FIR-LARCH
- H. BLOCKING a. NO.3 GRADE SOUTHERN YELLOW PINE
- b. NO.3 GRADE DOUGLAS FIR-LARCH 3. STRUCTURAL LUMBER NOT IN PERMANENTLY CONDITIONED SPACE SHALL ADHERE TO THE FOLLOWING SPECIFICATIONS:
- A. DIMENSION LUMBER a. SAME SPECIES AND GRADES AS LISTED ABOVE, HOWEVER THEY MUST BE PRESSURE-TREATED. B. GLUED LAMINATED BEAM / HEADERS / GIRDER:
- a. POWER PRESERVED GLULAM BEAM (24F-V5M1/SP) TREATED WITH COPPER GUARD AT 0.04 PCF OR CLEAR-GUARD AT 0.055 PCF. WOOD STRUCTURAL PANEL
- A WOOD STRUCTURAL PANELS, WHEN USED STRUCTURALLY (INCLUDING THOSE USED FOR SIDING, ROOF AND WALL SHEATHING, SUBELOORING, DIAPHRAGMS, AND BUILT-LIP MEMBERS). SHALL BE APA PERFORMANCE-RATED CONFORMING TO DOC PS 1. DOC PS 2 OR ANSI/APA PRP 210. FACH PANEL OR MEMBER SHALL BE IDENTIFIED FOR GRADE BOND CLASSIFICATION, AND PERFORMANCE CATEGORY BY THE TRADEMARKS OF AN APPROVED TESTING AND GRADING AGENCY. THE PERFORMANCE CATEGORY VALUE SHALL BE USED AS THE "NOMINAL PANEL THICKNESS" OR "PANEL THICKNESS". a. SUBFLOOR: 23/32 PERFORMANCE CATEGORY APA RATED STURD-I-FLOOR. 24 o.c., EXPOSURE 1
- b. SHEATHING/DECKING: 7/16 (UNLESS NOTED OTHERWISE, REF SHEAR WALL SCHEDULE) PERFORMANCE CATEGORY APA RATED SHEATHING, 32/16, EXPOSURE 1 B. WOOD STRUCTURAL PANELS WHEN PERMANENTLY EXPOSED IN OUTDOOR APPLICATIONS SHALL BE OF EXTERIOR TYPE, EXCEPT THAT WOOD STRUCTURAL PANEL ROOF
- SHEATHING EXPOSED TO THE OUTDOORS ON THE UNDERSIDE IS PERMITTED TO BE EXPOSURE 1 TYPE. 5. ALL LUMBER SHALL BE KILN DRIED WITH A MAXIMUM MOISTURE CONTENT OF 19%. 6. ALL GLUED-LAMINATED (GLULAM) MEMBERS SHALL ADHERE TO ANSI A 190.1 & ASTM D 3737 AND BE MANUFACTURED BY ANTHONY POWER BEAM (3000Fb - 2.1E).
- 7. ALL LUMBER SHALL BE IDENTIFIED BY THE GRADE MARK OF A LUMBER GRADING OR INSPECTION AGENCY THAT HAS BEEN APPROVED BY AN ACCREDITATION AGENCY THAT COMPLIED WITH DOC PS 20 8. ALL WOOD IN CONTACT WITH CONCRETE OR EXPOSED TO WEATHER SHALL BE PRESERVATIVE TREATED WOOD. ALL FASTENERS INCLUDING ANCHOR BOLTS, POWER-ACTUATED
- FASTENERS, NAILS, CLIPS, AND HANGERS ATTACHED TO PRESERVATIVE TREATED SHALL BE APPROVED FOR THE ENVIRONMENT 9. NAILS AND STAPLES A. NAILS AND STAPLES SHALL CONFORM TO REQUIREMENTS OF ASTM F 1667. NAILS USED FOR FRAMING AND SHEATHING CONNECTIONS SHALL HAVE MINIMUM AVERAGE BENDING YIELD STRENGTHS AS FOLLOWS: 80 KIPS PER SQUARE INCH (KSI) (551 MPA) FOR SHANK DIAMETERS LARGER THAN 0.177 INCH (4.50 MM) BUT NOT LARGER THAN 0.254 INCH (6.45 MM), 90 KSI (620 MPA) FOR SHANK DIAMETERS LARGER THAN 0.142 INCH (3.61 MM) BUT NOT LARGER THAN 0.177 INCH (4.50 MM) AND 100 KSI (689 MPA) FOR
- SHANK DIAMETERS OF AT LEAST 0.099 INCH (2.51 MM) BUT NOT LARGER THAN 0.142 INCH (3.61 MM). 10. FASTENERS FOR FIRE-RETARDANT TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED STEEL OR STAINLESS STEEL

WOOD TRUSS SPECIFICATIONS (06 17 60)

- TRUSSES SHALL BE DESIGNED BY THE TRUSS MANUFACTURER IN ACCORDANCE WITH THE TRUSS PLATE INSTITUTE "NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION" (ANSI/TPI 1-2014) AND SHALL CONFORM TO IBC §2303.4. THE DESIGN SHALL INCLUDE ALL TEMPORARY AND PERMANENT BRACING. TEMPORARY BRACING MAY REMAIN IN-PLACE IF IT DOES NOT INTERFERE WITH ARCHITECTURAL REQUIREMENTS. 2. SUBMITTALS: THE TRUSS MANUFACTURER SHALL PREPARE AND SUBMIT A TRUSS SUBMITTAL PACKAGE (PRODUCT DATA AND SHOP DRAWINGS) FOR THE WOOD TRUSSES TO THE CONTRACTOR. THE CONTRACTOR AFTER REVIEWING AND APPROVING THE TRUSS SUBMITTAL PACKAGE, SHALL FORWARD THE TRUSS SUBMITTAL PACKAGE TO DUDLEY FOR REVIEW.
- DUDLEY WILL REVIEW THE TRUSS SUBMITTAL PACKAGE FOR GENERAL CONFORMANCE WITH THE STRUCTURAL DRAWINGS. TRUSS SUBMITTAL PACKAGES SHALL BE PREPARED, SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED. THE TRUSS SUBMITTAL PACKAGE SHALL INCLUDE AT A MINIMUM: A. PRODUCT DATA AND ICC APPROVAL FOR FRAMING MEMBERS AND FASTENERS THAT HAVE BEEN DESIGNED BY OTHERS. B. SHOP DRAWINGS SHALL INCLUDE AT A MINIMUM:
- a. PROJECT NAME, LOCATION AND BUILDING CODE b. LAYOUTS INCLUDING TEMPORARY AND PERMANENT BRIDGING REQUIREMENTS. c. PROFILES INCLUDING ALL JOINTS, BEARING POINTS, DEFLECTION RATIOS, AND REACTIONS.
- d. BLOCKING REQUIREMENTS e. REQUIRED BEARING WIDTHS
- f. NUMBER OF PLIES IF GREATER THAN ONE g. LUMBER SPECIES AND GRADE
- h. SIZE, GAUGE AND LOCATION OF PLATES . TRUSS TO TRUSS HARDWARE REQUIREMENTS
- NAME AND TRADEMARK OF PLATE MFR AND TRUSS FABRICATOR
- C. CALCULATIONS INCLUDING BUT NOT LIMITED TO: BUILDING CODE DESIGN LOADS
- STRESS REDUCTION FACTORS USED FOR PLATES 3. DRAG TRUSS SHALL BE PROVIDED ABOVE AND BELOW ALL INTERIOR SHEAR WALLS. THE DRAG TRUSSES SHALL BE DESIGNED TO SUPPORT AN ALLOWABLE LINEAR LOAD EQUAL TO THAT OF
- THE SHEAR WALL (IF SHEAR WALLS ARE ABOVE AND BELOW THE LARGE ALLOWABLE SHEAR LOAD SHALL APPLY). 4. TRUSS RESTRAINT/BRACING METHODS SHALL BE IN ACCORDANCE WITH BCSI-B3 (PERMANENT RESTRAINT/BRACING OF CHORDS AND WEB MEMBERS) UNLESS NOTED OTHERWISE
- 5. TRUSS DEFLECTION LIMITS: TRUSSES SHALL BE LIMITED TO THE FOLLOWING DEFLECTION LIMITS: A. FLOOR TRUSSES LIVE LOAD (L/360) TOTAL LOAD (L/240
- B. PITCHED ROOF TRUSS : LIVE LOAD (L/240) TOTAL LOAD (L/180) C. SHALLOW (< = 4 : 12) PITCHED ROOF TRUSSES : LIVE LOAD (L/360) TOTAL LOAD (L/240)
- 6. CAMBER SHALL BE BUILT INTO ROOF TRUSSES TO COMPENSATE FOR VERTICAL DEFLECTION. THE CAMBER SHALL BE LARGEST AT THE MID-SPAN OF THE TRUSS. A. PITCHED ROOF TRUSS: 1.00 X DEFLECTION FROM ACTUAL DEAD LOAD.

PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING FOR ALL TRUSSES WITH CLEAR SPANS 60 FEET OR GREATER.

7. TRUSSES SPANNING 60 FEET OR FURTHER A. THE TRUSS MFR. SHALL CONTRACT WITH A QUALIFIED REGISTERED DESIGN PROFESSIONAL FOR THE DESIGN OF THE TEMPORARY INSTALLATION RESTRAINT/BRACING AND THE

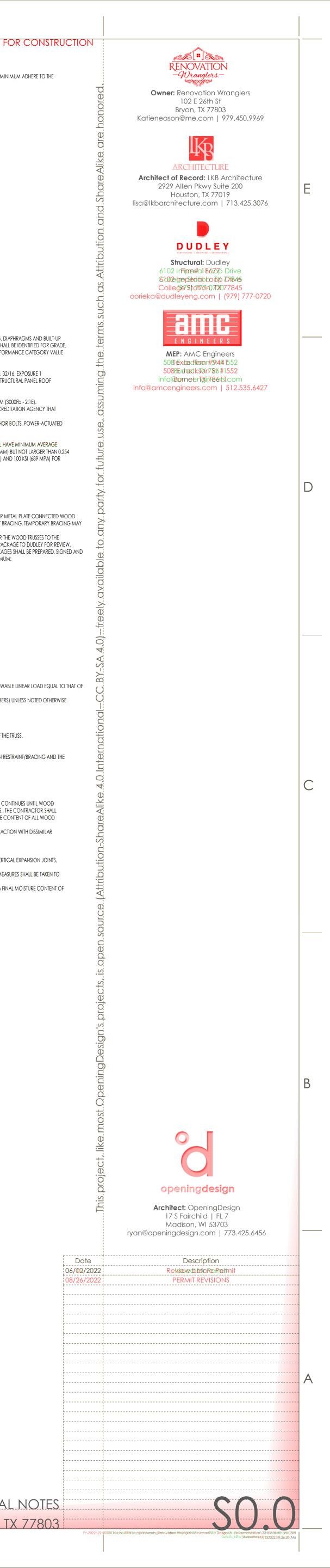
<u>WOOD SHRINKAGE</u>

- A. WOOD SHRINKAGE: a. REGARDLESS OF THE BUILDING TYPE, BUILDING DESIGNS MUST COMPENSATE FOR THE FACT THAT WOOD SHRINKS AS IT DRIES. SHRINKAGE CONTINUES UNTIL WOOD REACHES IT EQUILIBRIUM MOISTURE CONTENT (EMC), WHICH AVERAGES 8-12% OF MOISTURE CONTENT FOR MOST STRUCTURES IN THE U.S... THE CONTRACTOR SHALL
- PREPARE AND ENFORCE A PLAN TO MINIMIZE MOISTURE IN THE WOOD FRAMING. DRYWALL SHALL NOT BE INSTALLED UNTIL THE MOISTURE CONTENT OF ALL WOOD FRAMING IS BELOW 15%
- b. THE CONSTRUCTION OF A WOOD FRAMED BUILDING REQUIRES AN UNDERSTANDING OF FRAMING TOLERANCES, SHRINKAGE, AND INTERACTION WITH DISSIMILAR
- c. ROUGH OPENINGS IN EXTERIOR WALLS SHALL BE UPSIZED APPROXIMATELY 1/2" TO ACCOMMODATE SHRINKAGE. d. PROVIDE 1/8" WIDE JOINTS IN SHEATHIN
- e. THE CONTRACTOR SHALL INCORPORATE DIFFERENTIAL VERTICAL MOVEMENT INTO THE DESIGN OF THE PLUMBING SYSTEM INCLUDING VERTICAL EXPANSION JOINTS, GAPS AROUND HORIZONTAL PLUMBING RUNS, AVOIDING HORIZONTAL PLUMBING RUNS IN LOAD BEARING STUDS. f. CARE SHALL BE TAKEN DURING CONSTRUCTION TO LIMIT THE MOISTURE EXPOSURE OF THE LUMBER. IF THE LUMBER DOES BECOME WET, MEASURES SHALL BE TAKEN TO BRING THE MOISTURE CONTENT BACK TO OR BELOW 15% PRIOR TO INSTALLING ARCHITECTURAL FINISHES.
- g. THE APPROXIMATE WOOD SHRINKAGE ASSUMING ALL LUMBER IS SOUTHERN PINE WITH AN INSTALLED MOISTURE CONTENT OF 19% AND A FINAL MOISTURE CONTENT OF
- BOTTOM PLATE: 0.168
- DOUBLE TOP PLATE: 0.067"
- 2ND STORY BOTTOM PLATE: 0.168"
- FLOOR TRUSS: 0.067 DOUBLE TOP PLATE: 0.067" 1ST STORY
- BOTTOM PLATE: 0.034" TOTAL ESTIMATED SHRINKAGE:
 [0.370"]

TYPICAL GENERAL NOTES

Date

- 10% IS AS FOLLOWS:
 - 3rd STORY FLOOR TRUSS:



REQUIRED VERIFICATION AND INSPECTION OF GRADING AND DRAINAG	E FOR FOUNDATI
VERIFICATION AND INSPECTION	CONTINUOUS
AFTER BUILDING CONSTRUCTION AND LANDSCAPING HAVE BEEN COMPLETED, FINAL GRADES SHALL BE VERIFIED TO DOCUMENT REQUIRED DRAINAGE	-
AFTER BUILDING CONSTRUCTION AND LANDSCAPING HAVE BEEN COMPLETED, DOWNSPOUTS SHALL BE INSPECTED TO CONFIRM CONFORMANCE.	-
GRADES AROUND THE STRUCTURE SHALL BE PERIODICALLY INSPECTED AND ADJUSTED AS PART OF THE BUILDING'S MAINTENANCE PROGRAM	-
PLUMBING LEAK "HYRDROSTATIC" TEST PERFORMED BY A LICENSED PLUMBER. TEST TO OCCUR AFTER ROUGH PLUMBING INSTALL	-
WHERE PAVING/FLATWORK ABUT THE FOUNDATION, A MAINTENANCE PROGRAM SHALL BE ESTABLISHED TO EFFECTIVELY SEAL AND MAINTAIN JOINTS AND PREVENT SURFACE WATER INFILTRATION.	-

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REQUIRED
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	-	Х	YES
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIALS	-	Х	YES
PERFORM CLASSIFICATION AND TESTING OF COMPACTED MATERIALS	-	Х	YES
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X	-	YES
PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THE SITE HAS BEEN PREPARED PROPERLY	-	Х	YES

REQUIRED VERIFICATION AND INSPECTION OF WOOD CONSTRUCTION (§1705.5)				
VERIFICATION AND INSPECTION	CONTINUOUS	PER		
PREFABRICATED WOOD STRUCTURAL ELEMENTS (METAL PLATE CONNECTED WOOD TRUSSES) FABRICATION AND IMPLEMENTATION PROCEDURES (NOT REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION	-			
HIGH-LOAD DIAPHRAGMS A. INSPECT GRADE AND THICKNESS OF WOOD STRUCTURAL PANEL SHEATHING. B. VERIFY NOMINAL SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES, THE NAILS OR STAPLE DIAMETER AND LENGTH, THE NUMBER OF FASTENER LINES AND THAT THE SPACING BETWEEN FASTENERS IN EACH LINE AND AT EDGE MARGINS AGREES WITH THE APPROVED BUILDING PLANS	-			
METAL-PLATE-CONNECTED WOOD TRUSSES SPANNING 60 FT OR GREATER A. VERIFY THAT TEMPORARY INSTALLATION RESTRAIN/BRACING AND THE PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAIN/BRACING ARE INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE	-			
INSPECTION OF NAILING, BOLTING, ANCHORING AND OTHER FASTENING COMPONENTS WITHIN THE SEISMIC / MAIN WIND FORCE RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES, SHEAR WALLS AND HOLD-DOWNS.	-			
 MOISTURE CONTENT OF LOAD BEARING WOOD FRAMING: MOISTURE CONTENT JUST PRIOR TO INSTALLING SHEET ROCK SHOULD BE AT OR BELOW 15%. SPECIAL ATTENTION SHALL BE PAID TO MEMBERS ORIENTED WITH THEIR VERTICAL AXIS PERPENDICULAR TO THE VERTICAL PLANE (PLATES, JOISTS, TRUSS CHORDS, ETC.) 	-			

STRUCTURAL STATEMENT OF SPECIAL INSPECTIONS & TESTING

- 1. SPECIAL INSPECTIONS AND STRUCTURAL TESTING SHALL BE PROVIDED BY AN INDEPENDENT AGENCY EMPLOYED BY THE OWNER FOR THE ITEMS IDENTIFIED IN THIS SECTION AND IN OTHER AREAS OF THE APPROVED CONSTRUCTION PLANS AND SPECIFICATIONS. (SEE IBC CHAPTER 17). 2. THE NAMES AND CREDENTIALS OF THE SPECIAL INSPECTORS TO BE USED SHALL BE SUBMITTED TO THE BUILDING OFFICIAL FOR APPROVAL. DUDLEY ENGINEERING CAN BE SOLICITED TO PROVIDE SPECIAL INSPECTIONS. WE RECOMMEND THAT THE PROJECT GEOTECHNICAL ENGINEER
- BE SOLICITED TO PROVIDE SPECIAL INSPECTIONS FOR THE SOILS AND TESTING FOR THE SOIL AND CONCRETE.
 DUTIES OF THE SPECIAL INSPECTOR:
- A. THE SPECIAL INSPECTOR SHALL REVIEW ALL WORK LISTED BELOW FOR CONFORMANCE WITH THE APPROVED CONSTRUCTION PLANS AND SPECIFICATIONS AND THE IBC. B. THE SPECIAL INSPECTOR SHALL FURNISH SPECIAL INSPECTION REPORTS TO THE EOR, CONTRACTOR, OWNER AND BUILDING OFFICIAL ON A WEEKLY BASIS, OR MORE FREQUENTLY AS REQUIRED BY THE BUILDING OFFICIAL. ALL ITEMS NOT IN COMPLIANCE SHALL BE BROUGHT TO THE
- IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, AND IF UNCORRECTED, TO THE EOR AND THE BUILDING OFFICIAL STATING THAT THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE SPECIAL INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED CONSTRUCTION PLANS AND SPECIFICATIONS AS WELL AS THE APPLICABLE WORKMANSHIP PROVISIONS OF THE IBC.
- 4. DUTIES AND RESPONSIBILITIES OF THE CONTRACTOR: A. THE CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE OWNER AND THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF WORK. IN ACCORDANCE WITH IBC 1704.4, THE STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF THE SPECIAL INSPECTION REQUIREMENTS CONTAINED WITHIN THIS "STATEMENT OF SPECIAL INSPECTIONS".
- B. THE CONTRACTOR SHALL NOTIFY THE RESPONSIBLE SPECIAL INSPECTOR THAT WORK IS READY FOR INSPECTION AT LEAST ONE WORKING DAY (24 HOURS MINIMUM) BEFORE SUCH INSPECTION IS REQUIRED. C. ALL WORK REQUIRING SPECIAL INSPECTION SHALL REMAIN ACCESSIBLE AND EXPOSED UNTIL IT HAS BEEN OBSERVED BY THE SPECIAL INSPECTOR.
- PLEASE SEE THE "SPECIAL INSPECTION SCHEDULE" FOR THE TYPES, EXTENTS AND FREQUENCY OF SPECIFIC ITEMS REQUIRING SPECIAL INSPECTIONS AND STRUCTURAL TESTS AS PART OF THIS PROJECT.
 REFER TO ARCHITECTURAL AND/OR MEP DRAWINGS FOR ADDITIONAL SPECIAL INSPECTION REQUIRED. DUDLEY ENGINEERING HAS LISTED THE STRUCTURAL SPECIAL INSPECTIONS AND TESTING.

WIND-RESISTING COMPONENTS (1705.11.3)

PERIODIC SPECIAL INSPECTION IS REQUIRED FOR FASTENING OF THE FOLLOWING SYSTEMS AND COMPONENTS: 1. ROOF COVERING, ROOF DECK AND ROOF FRAMING CONNECTIONS. 2. EXTERIOR WALL COVERING AND WALL CONNECTIONS TO ROOF AND FLOOR DIAPHRAGMS AND FRAMING

ATIONS ON EXPANSIVE SOILS

PERIODIC	REQUIRED
Х	YES

OUS	PERIODIC	REQUIRED
	Х	YES
	Х	YES
	Х	YES
	-	YES
	Х	YES

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	CONTINUOUS	PERIODIC	REQUIRED
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TURN-OF-NUT PRETENSIONI SUBSEQUENTLY, IT SHALL BE THE UNTURNED ELEMENT B' INITIAL FIT-UP OF THE JOINT OBSERVATION. NO FURTHE SHALL NOT BE CAUSE FOR REJECT NOT BE CAUSE FOR REJECT	ENSURED BY RO Y THE AMOUNT SI BUT PRIOR TO PI R EVIDENCE OF (REJECTION, A RC
	TABLE 8.2: NI
BOLT LENGTH	
	BOTH FACE NC BOLT AX
LENGTH ≤ 4d _b	1/3 TUR
4d _b < LENGTH ≤ 8d _b	1/2 TUR
8d _b < LENGTH ≤ 12d _b	2/3 TUR
a. NUT ROTATION IS RELAT TOLERANCE IS PLUS 60° b. APPLICABLE TO JOINTS	AND MINUS 30°

STRUCTURAL STEEL H VERIFICATION AND DOCUMENTATION AND ACCEPTANCE OR REJE

STRUCTURAL STEEL H VERIFICATION AND I

DOCUMENTATION OF ACCEPTANCE OR REJEC

STRUCTURAL STEEL HIGH-STRENGTH BOLTS (TURN-OF-NUT)

ECTOR SHALL OBSERVE THE PRE-INSTALLATION VERIFICATION TESTING REQUIRED IN SECTION 8.2. ROUTINE OBSERVATION THAT THE BOLTING CREW PROPERLY ROTATES THE TURNED ELEMENT RELATIVE TO VT SPECIFIED IN TABLE 8.2. ALTERNATIVELY, WHEN FASTENER ASSEMBLIES ARE MATCH-MARKED AFTER THE) PRETENSIONING, VISUAL INSPECTION AFTER PRETENSIONING IS PERMITTED IN LIEU OF ROUTINE OF CONFORMITY IS REQUIRED. A PRETENSION THAT IS GREATER THAN THE VALUE SPECIFIED IN TABLE 8.1 ROTATION THAT EXCEEDS THE REQUIRED VALUES, INCLUDING TOLERANCE, SPECIFIED IN TABLE 8.2 SHALL

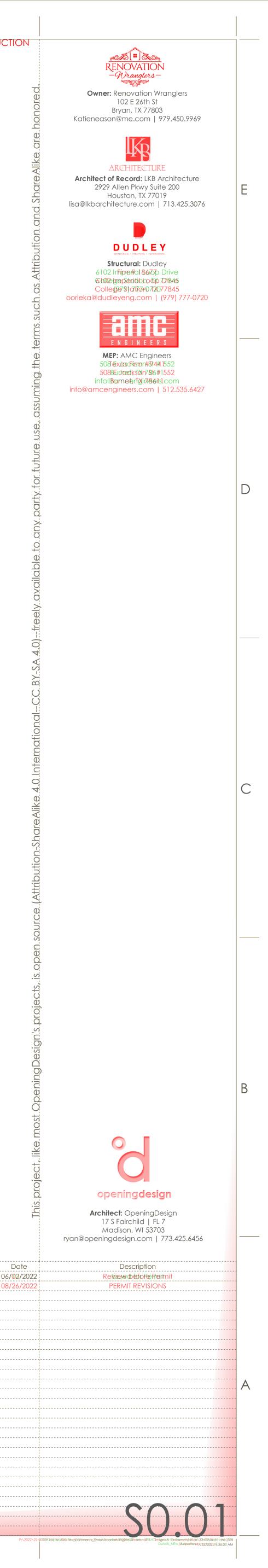
IT ROTATION FROM SNUG-TIGHT CONDITION FOR TURN-OF-NUT PRETENSIONING					
D	DISPOSITION OF OUTER FACES OF BOLTED PARTS				
rmal to KIS	ONE FACE NORMAL TO BOLT AXIS, OTHER SLOPED NOT MORE THAN 1:20	BOTH FACES SLOPED NOT MORE THAN 1:20 FROM NORMAL TO BOLT AXIS			
N	1/2 TURN	2/3 TURN			
N	2/3 TURN	5/6 TURN			
N	5/6 TURN	1 TURN			

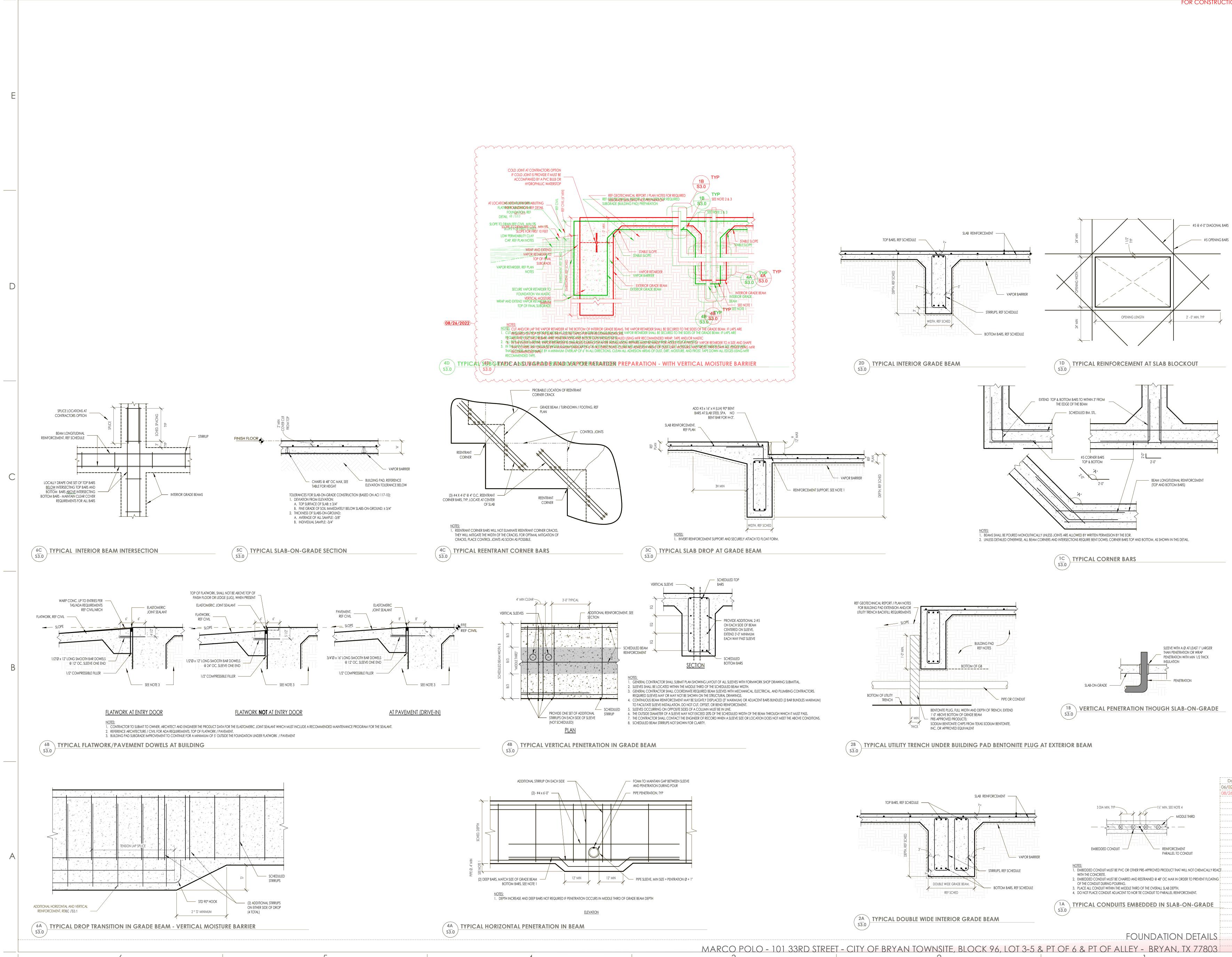
EGARDLESS OF THE ELEMENT (NUT OR BOLT) BEING TURNED. FOR ALL REQUIRED ROTATIONS, THE L MATERIAL WITHIN THE GRIP IS STEEL.

. HIGH-STRENGTH BOLTS (SNUG-TIGHT) - INSPECTION TASKS PRIOR TO BOLTING								
ND INSPECTION CONTINUOUS PERIODIC REQUIRED								
REJECTION OF BOLTED CONNECTIONS	-	Х	YES					
L HIGH-STRENGTH BOLTS (SNUG-TIGHT) - INSPECTION TASKS DURING BOLTING								

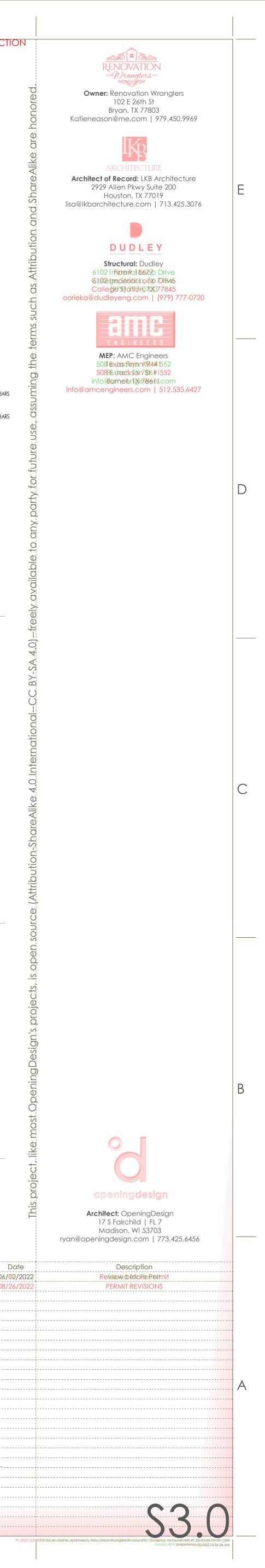
ND INSPECTION	CONTINUOUS	PERIODIC	REQUIRED
JECTION OF BOLTED CONNECTIONS.	-	Х	YES

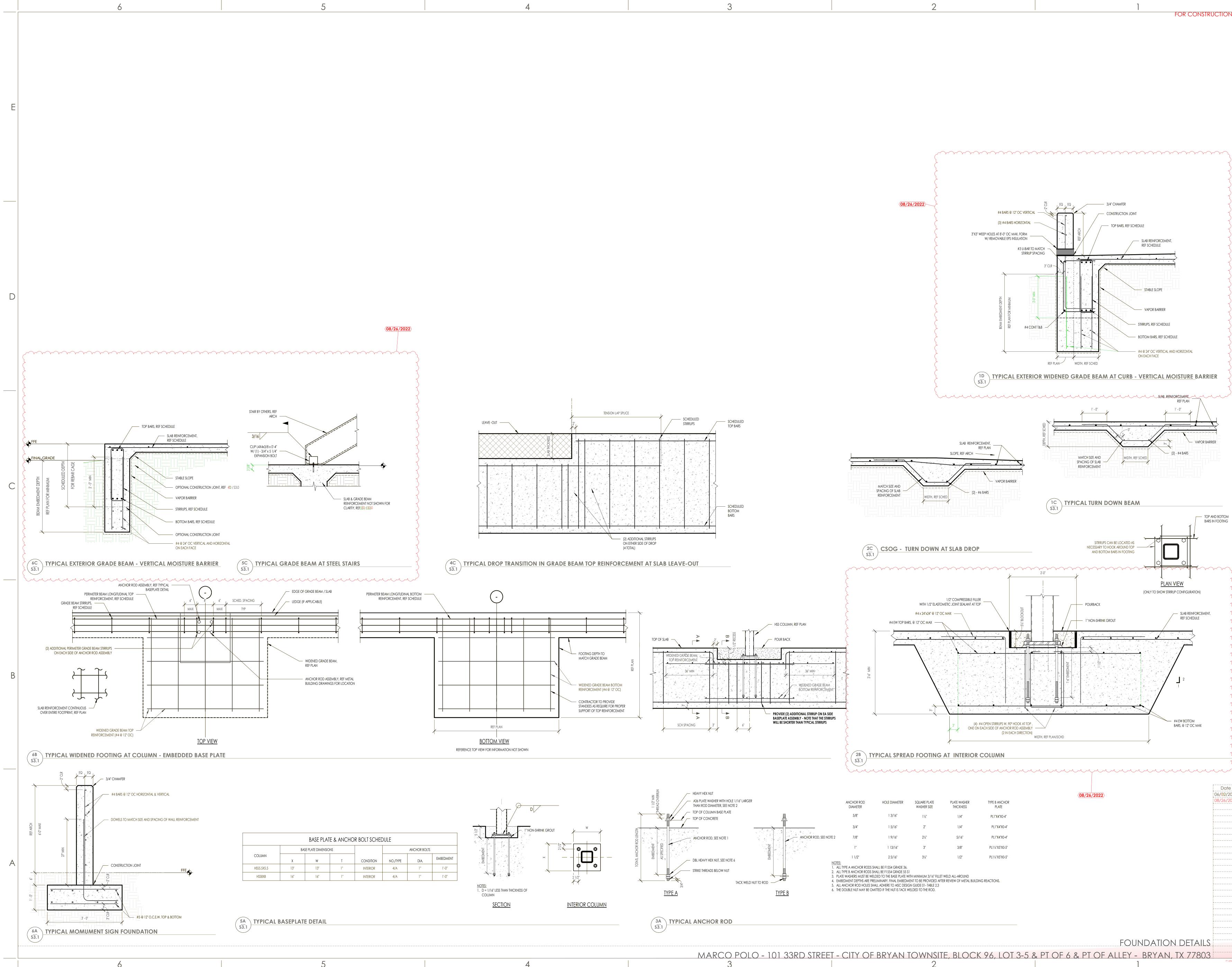
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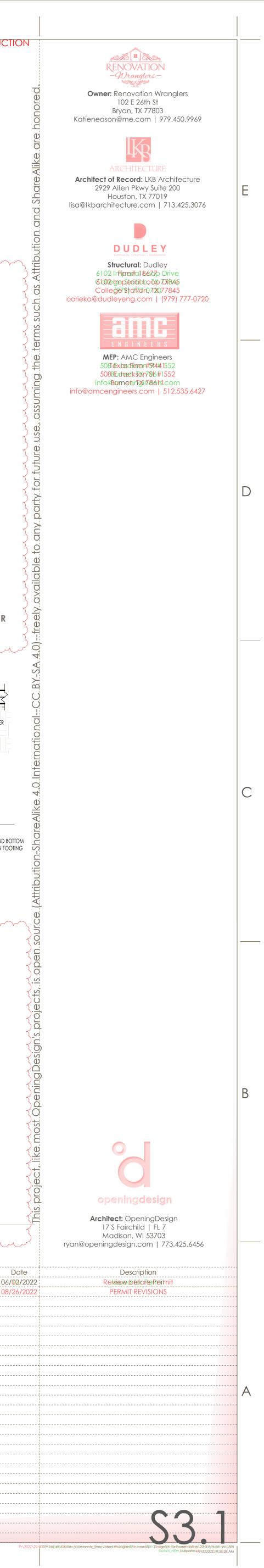






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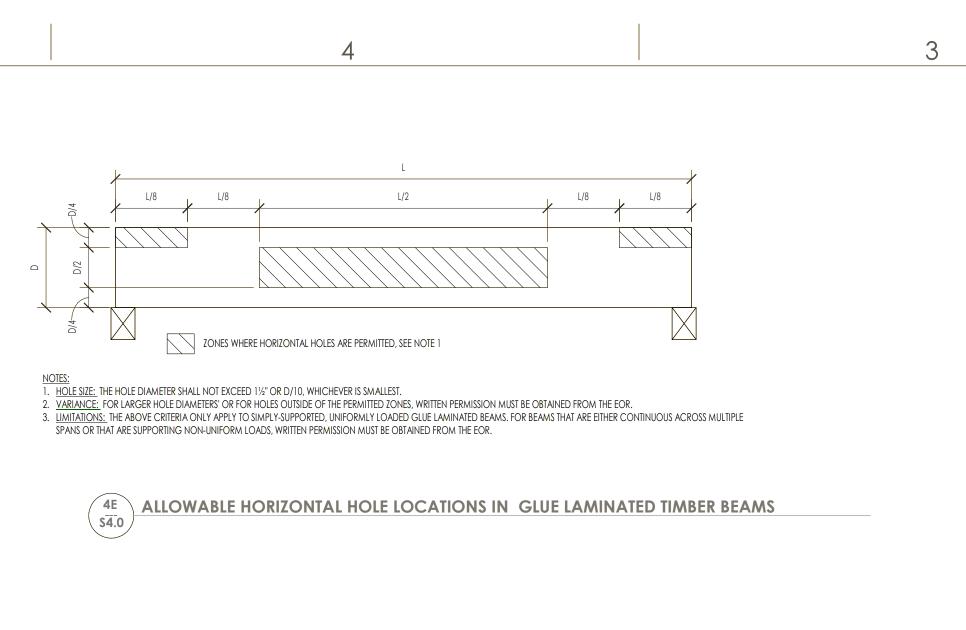
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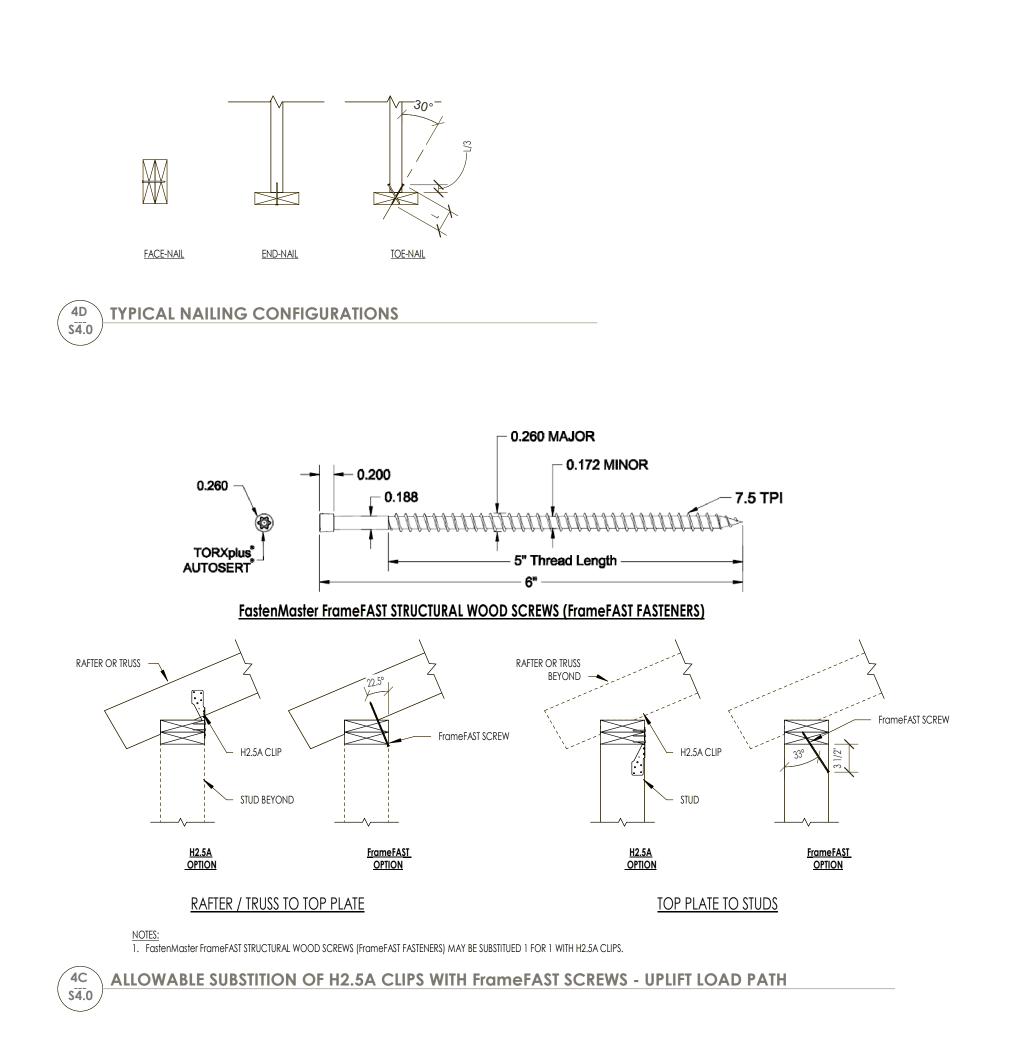


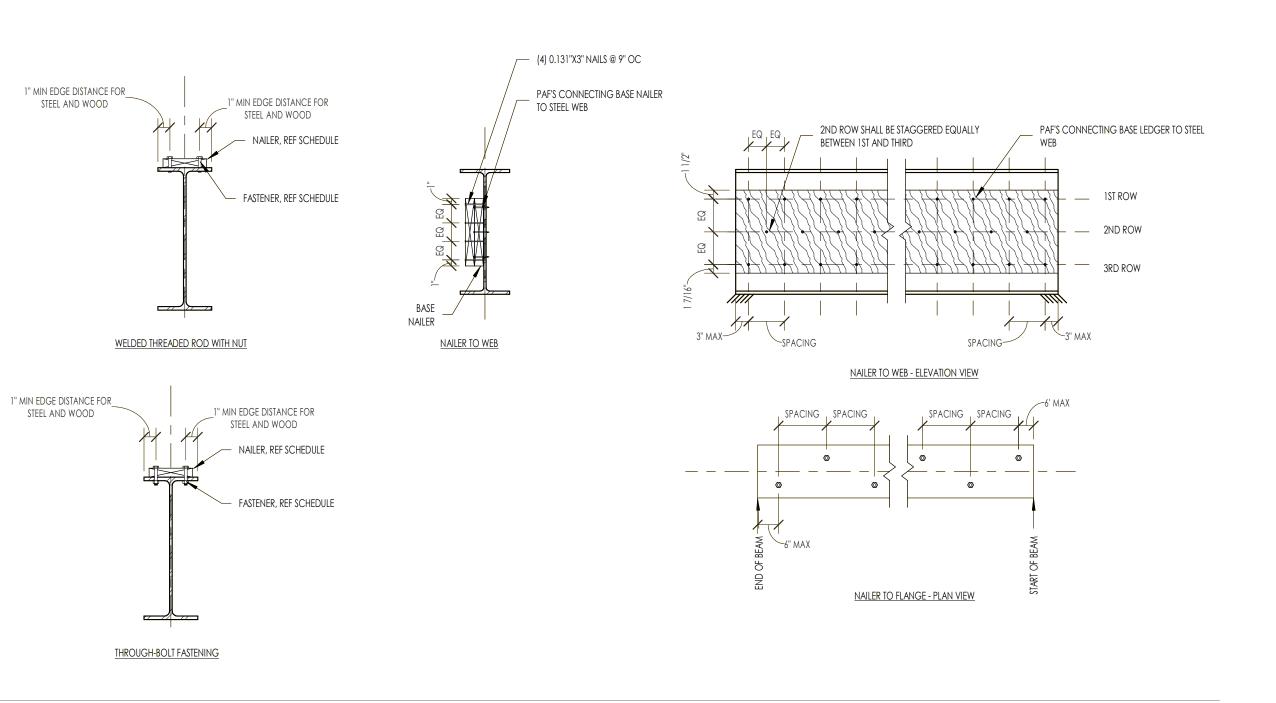
	CONNECTION ID	CONNECTION TYPE	FASTENING	FASTENING ORIENTATION
	1	JOIST TO SILL OR GIRDER	(3) - 0.131"Ø X 3"	TOENAIL
	2	SOLE PLATE TO JOIST OR BLOCKING	0.148"Ø X 3¼" NAILS @ 12" OC NAILS (3) - 0.131"Ø X 3" NAILS	FACE NAIL
	4	STUD TO SOLE PLATE - OPTION 1	(3) - 0.131 Ø X 3 NAILS (2) - 16d COMMON (3) - 0.131"Ø X 3" NAILS	END NAIL
	5	STUD TO SOLE PLATE - OPTION 2	(4) 0.131"Ø X 3" NAILS	TOENAIL
	6	DOUBLE/MULTIPLE STUDS	REFERENCE DETAIL 6A/\$4.1	FACE NAIL
	7		0.131"Ø X 3" NAILS @ 12" OC	FACE NAIL
	8	DOUBLE TOP PLATE SPLICE BLOCKING BETWEEN JOISTS/RAFTERS TO TOP PLATE	(3) - 0.131"Ø X 3" NAILS	TOENAIL
	10	RIM JOIST TO TOP PLATE	0.131"Ø X 3" NAILS @ 6" OC	TOENAIL
	11	CEILING JOIST TO TOP PLATE	(5) - 0.131"Ø X 3" NAILS	TOENAIL
	12	CEILING JOIST LAP OVER PARTITIONS	(4) - 0.131"Ø X 3" NAILS	FACE NAIL
	13	CEILING JOIST TO PARALLEL RAFTERS	(4) - 0.131"Ø X 3" NAILS (3) - 0.131"Ø X 3" NAILS	FACE NAIL
	14	BUILT-UP CORNER STUDS	(3) - 0.131"Ø X 3" NAILS 0.131"Ø X 3" NAILS @ 16" OC	FACE NAIL
	16	BUILT-UP BEAMS	REFERENCE DETAIL 2A //S4.0	FACE NAIL
	17	COLLAR TIE TO RAFTER	(4) - 0.131"Ø X 3" NAILS	FACE NAIL
	18		(4) - 0.131"Ø X 3" NAILS	TOENAIL
	19	RAFTER TO RIDGE BOARD/BEAM BLOCKING B/T STUDS	(3) - 0.131"Ø X 3" NAILS	TOENAIL
	20 NOTES:	DLOCKING D/1 SIUUS	(3) - 0.131"Ø X 3" NAILS EACH SIDE	IVENAIL
	1/4 JOIST D		NOTCHING AND BORING ONLY A OUTER THIRDS OF SPAN FLOOR JOIST	
+	OUTE	2" MIN 1/6 JOIST DEPTH, MA	AX	OUTER THIRD
/	OUTE	1/6 JOIST DEPTH, MA		OUTER THIRD
	OUTE	1/6 JOIST DEPTH, MA		OUTER THIRD
	OUTH	1/6 JOIST DEPTH, MA	MIDDLE THIRD	
	SUPPORT	1/6 JOIST DEPTH, MA	MIDDLE THIRD	
	SUPPORT LLOWABLE NOTC FASTENER SCI t, (in) PAF		MIDDLE THIRD	
	SUPPORT LLOWABLE NOTC FASTENER SCI tr (in) PAF ≤ 0.35 X-U 4		MIDDLE THIRD BORING AND NOTCHING NOT AL MIDDLE THIRD DISTS STENER SCHEDULE - 10 BEAM WEB / BOTTOM FLANCE $\frac{PAF FASTENER?}{(3) - X-U 47 @ 12" OC} (2) - 1/2"Ø @ 24" OC}$	LOWED IN SUPPORT
	SUPPORT LLOWABLE NOTC FASTENER SCI tr (in) PAFI ≤ 0.35 X-U 4/2 0.35 DS 47	ET HIRD Image: Comparison of the compa	MIDDLE THIRD BORING AND NOTCHING NOT ALL MIDDLE THIRD DISTS STENER SCHEDULE - 10 BEAM WEB / BOTTOM FLANCE $\frac{PAF FASTENER?}{(3) - X-U 47 @ 12" OC} (2) - 1/2"Ø @ 24" OC}$	LOWED IN SUPPORT
	SUPPORT LLOWABLE NOTC FASTENER SCI tr (in) PAFI ≤ 0.35 X-U 4/2 0.35 DS 47	ET HIRD Image: Comparison of the compa	MIDDLE THIRD BORING AND NOTCHING NOT ALL MIDDLE THIRD DISTS	LOWED IN SUPPORT
	SUPPORT LLOWABLE NOTO FASTENER SCI tr 0.35 < tr			
	SUPPORT LLOWABLE NOTO FASTENER SCI tr 0.35 < tr			
	SUPPORT LLOWABLE NOTC FASTENER SCI tr (in) PAF ≤ 0.35 X-U 42 0.35 DS 47 tr > 0.44 DS 47 b (in) NA ≤ 5.5 NA	ER THRD Image: Contract of the c	MIDDLE THIRD BORING AND NOTCHING NOT ALL MIDDLE THIRD BORING AND NOTCHING NOT ALL DISTS	LOWED IN SUPPORT
	SUPPORT LLOWABLE NOTC EXTENER SCI tr (in) PAFI ≤ 0.35 X-U 42 0.35 DS 47 tr > 0.44 DS 47 b (in) NA ≤ 5.5 5.5 < b ≤ 7.25	ET HIRD Image: Comparison of the compa	MIDDLE THIRD BORING AND NOTCHING NOT AL MIDDLE THIRD BORING AND NOTCHING NOT AL MIDDLE THIRD DISTS SIENER SCHEDULE - 10 BEAM WEB / BOTTOM FLANGE Image: Signal and State of Sta	LOWED IN SUPPORT
	SUPPORT LLOWABLE NOTC EXTENER SCI tr (in) PAFI ≤ 0.35 X-U 42 0.35 DS 47 tr > 0.44 DS 47 b (in) NA ≤ 5.5 5.5 < b ≤ 7.25	ET HIRD Image: Comparison of the compa	MIDDLE THIRD BORING AND NOTCHING NOT ALL BORING AND NOTCHING NOT ALL DISTS STENER SCHEDULE - 10 BEAM WEB / BOTTOM FLANGE Image: Stere Schedule - 10 BEAM WEB / BOTTOM FLANGE Image: Stere Schedule - 10 BEAM WEB / BOTTOM FLANGE Image: Stere Schedule - 10 BEAM WEB / BOTTOM FLANGE Image: Stere Schedule - 10 BEAM WEB / BOTTOM FLANGE Image: Stere Schedule - 10 BEAM WEB / BOTTOM FLANGE Image: Stere Schedule - 10 BEAM WEB / BOTTOM FLANGE Image: Stere Schedule - 10 BEAM WEB / BOTTOM FLANGE Image: Stere Schedule - 10 BEAM WEB / BOTTOM FLANGE Image: Stere Schedule - 10 BEAM WEB / BOTTOM FLANGE Image: Stere Schedule - 11/27 Image	LOWED IN SUPPORT
	SUPPORT LLOWABLE NOTC EXTENER SCI tr (in) PAFI ≤ 0.35 X-U 42 0.35 DS 47 tr > 0.44 DS 47 b (in) NA ≤ 5.5 5.5 < b ≤ 7.25	ET HIRD Image: Comparison of the compa	MIDDLE THIRD BORING AND NOTCHING NOT AL MIDDLE THIRD BORING AND NOTCHING NOT AL MIDDLE THIRD DISTS SIENER SCHEDULE - 10 BEAM WEB / BOTTOM FLANGE Image: Signal and State of Sta	LOWED IN SUPPORT
	SUPPORT LLOWABLE NOTC EXTENER SCI tr (in) PAFI ≤ 0.35 X-U 42 0.35 DS 47 tr > 0.44 DS 47 b (in) NA ≤ 5.5 5.5 < b ≤ 7.25	ET HIRD Image: Comparison of the second	MIDDLE THIRD BORING AND NOTCHING NOT ALL BORING AND NOTCHING NOT ALL DISTS STENER SCHEDULE - 10 BEAM WEB / BOTTOM FLANGE Image: Stere Schedule - 10 BEAM WEB / BOTTOM FLANGE Image: Stere Schedule - 10 BEAM WEB / BOTTOM FLANGE Image: Stere Schedule - 10 BEAM WEB / BOTTOM FLANGE Image: Stere Schedule - 10 BEAM WEB / BOTTOM FLANGE Image: Stere Schedule - 10 BEAM WEB / BOTTOM FLANGE Image: Stere Schedule - 10 BEAM WEB / BOTTOM FLANGE Image: Stere Schedule - 10 BEAM WEB / BOTTOM FLANGE Image: Stere Schedule - 10 BEAM WEB / BOTTOM FLANGE Image: Stere Schedule - 10 BEAM WEB / BOTTOM FLANGE Image: Stere Schedule - 11/27 Image	LOWED IN SUPPORT
	SUPPORT LOWABLE NOTO FASTENER SCI t_F (in) PAF ≤ 0.35 X-U 42 $0.35 < t_F \leq 0.44$ DS 47 $t_F > 0.44$ DS 47 $t_F > 0.44$ DS 47 $t_F > 7.25$ The second se	ET HIRD Image: Contract of the c	MIDDLE THIRD BORING AND NOTCHING NOT ALL BORING AND NOTCHING NOT ALL DISTS STENER SCHEDULE - 10 BEAM WEB / BOTTOM FLANGE Image: Stere Schedule - 10 BEAM WEB / BOTTOM FLANGE Image: Stere Schedule - 10 BEAM WEB / BOTTOM FLANGE Image: Stere Schedule - 10 BEAM WEB / BOTTOM FLANGE Image: Stere Schedule - 10 BEAM WEB / BOTTOM FLANGE Image: Stere Schedule - 10 BEAM WEB / BOTTOM FLANGE Image: Stere Schedule - 10 BEAM WEB / BOTTOM FLANGE Image: Stere Schedule - 10 BEAM WEB / BOTTOM FLANGE Image: Stere Schedule - 10 BEAM WEB / BOTTOM FLANGE Image: Stere Schedule - 10 BEAM WEB / BOTTOM FLANGE Image: Stere Schedule - 11/27 Image	LOWED IN SUPPORT
	SUPPORT LOWABLE NOTO FASTENER SCI t_t (in) PAF ≤ 0.35 X-U 42 $0.35 < t_t \le 0.44$ DS 47 $t_t > 7.25$ D NOTES: 1. ALL FASTENERS SHALL B 2. FASTENER DESCRIPTION A. X-U 47 X-U 47	ET HIRD Image: Contract of the c	STENER SCHEDULE - TO BEAM WEB / BOTTOM FLANGE DISTS STENER SCHEDULE - TO BEAM WEB / BOTTOM FLANGE PAF FASTENER? BOLT / ROD ¹ (3) - X-U 47 @ 12' OC (2) - 1/2'Ø @ 24' OC (3) - X-U 47 @ 12' OC (2) - 1/2'Ø @ 24' OC (4) (3) - DS 47 @ 12' OC (2) - 1/2'Ø @ 12' OC (2) - 1/2'Ø @ 12' OC (3) - X-U 47 @ 12' OC (2) - 1/2'Ø @ 12' OC (3) - X-U 47 @ 12' OC (2) - 1/2'Ø @ 12' OC (3) - X-U 47 @ 12' OC (2) - 1/2'Ø @ 24' OC (3) - X-U 47 @ 12' OC (2) - 1/2'Ø @ 24' OC (3) - X-U 47 @ 12' OC (2) - 1/2'Ø @ 24' OC (3) - X-U 47 @ 12' OC (2) - 1/2'Ø @ 24' OC (3) - X-U 47 @ 12' OC (2) - 1/2'Ø @ 24' OC (3) - X-U 47 @ 12' OC (2) - 1/2'Ø @ 24' OC (3) - X-U 47 @ 12' OC (2) - 1/2'Ø @ 12' OC (3) - X-U 47 @ 12' OC (2) - 1/2'Ø @ 12' OC (3) - X-U 47 @ 12' OC (2) - 1/2'Ø @ 12' OC (3) - X-U 47 @ 12' OC (2) - 1/2'Ø @ 12' OC (3) - X-U 47 @ 12' OC (2) - 1/2'Ø @ 12' OC (3) - X-U 47 @ 12' OC (2) - 1/2'Ø @ 12' OC (3) - X-U 47 @ 12' OC (2) - 1/2'Ø @ 12' OC (3) - X-U 47 @ 12' OC (2) - 1/2'Ø @ 12' OC (3) - X-U 47 @ 12' OC (4) - 1/2' - 1/2'Ø @ 12' OC (5) - 1/2'Ø @ 12' OC (4) - 1/2' - 1/2'Ø @ 12' OC (5) - 1/2'Ø @ 12' OC (4) - 1/2' - 1/2'Ø @ 12' OC (5) - 1/2'Ø @ 12' OC (4) - 1/2' - 1/2'Ø @ 12' OC (5) - 1/2' - 1/2' Ø @ 12' OC (5) - 1/2' -	LOWED IN SUPPORT

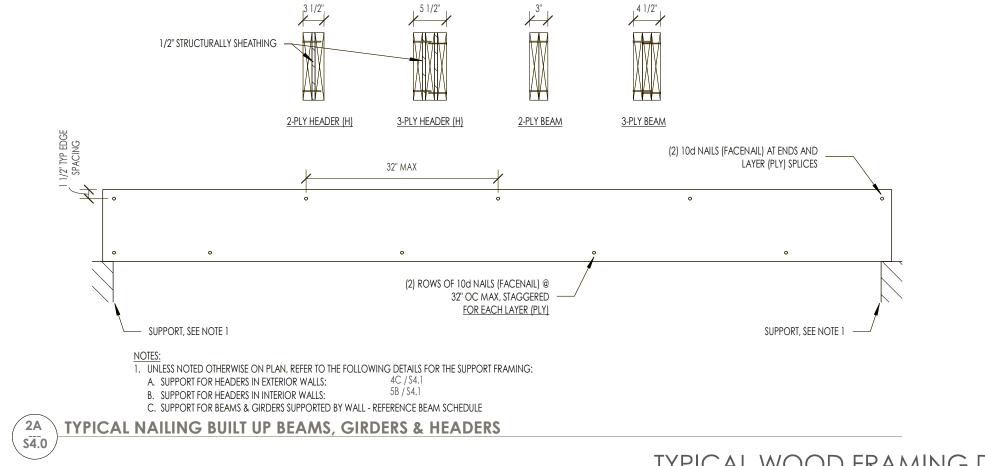
6A WOOD NAILER TO TOP OF STRUCTURAL STEEL S4.0

6

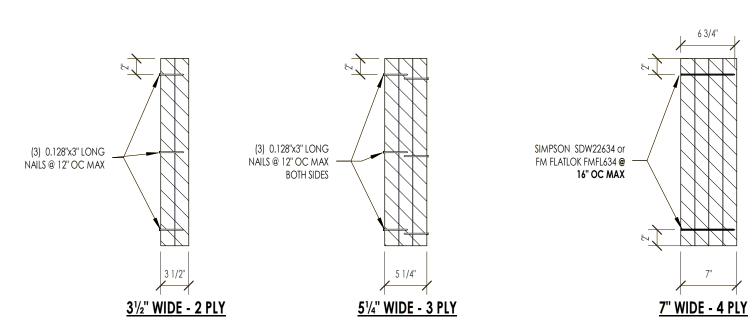


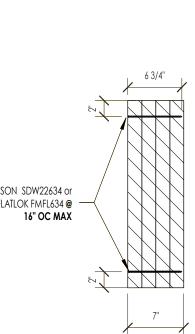


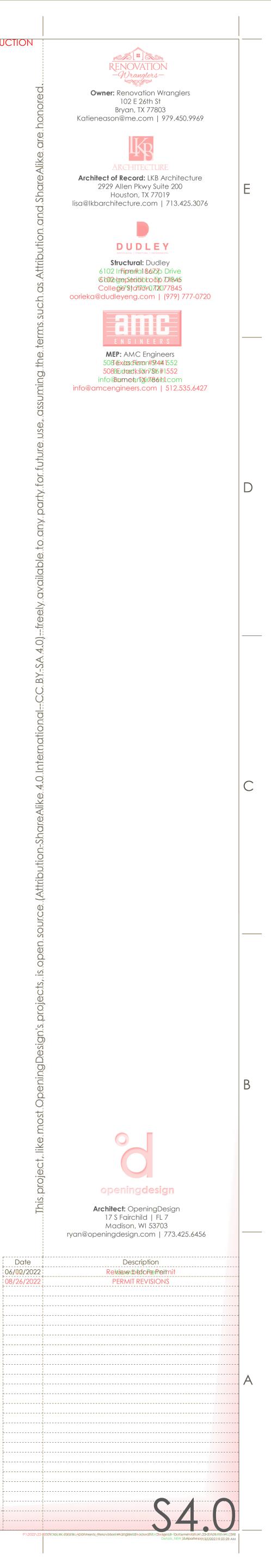


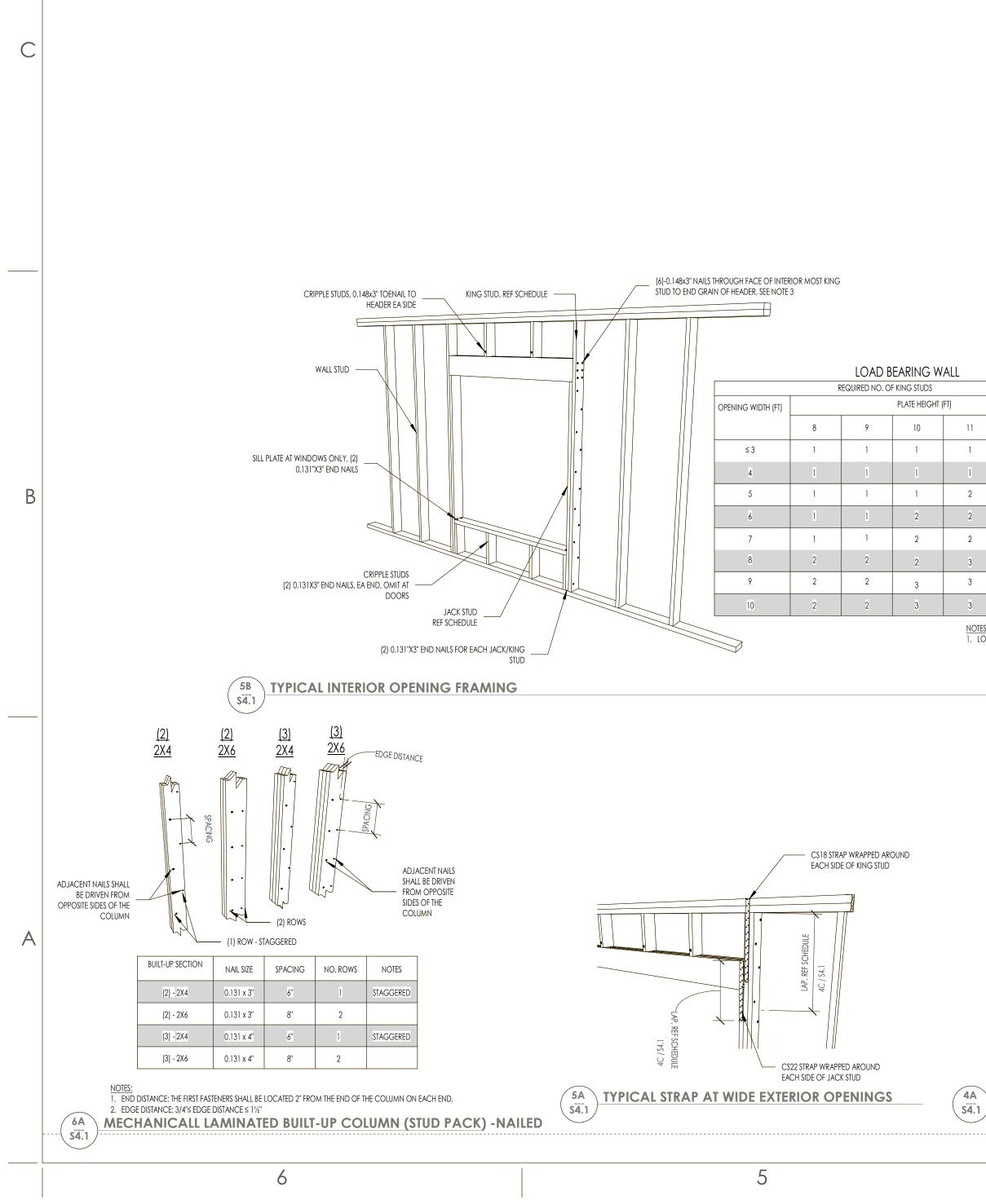












6

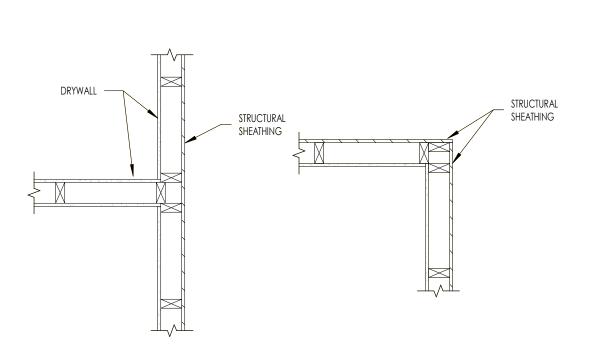


INTERSECTING WALLS

4A TYPICAL CORNER AND INTERSECTION WALL STUDS (NOT AT SHEAR WALL)

OUTSIDE CORNER WALLS

S4.1



_ 0.131" x 3" NAILS @ 12" OC MAX, TYPICAL (8) 0.148"x3" NAILS MINIMUM IN LAPPED REGION STUD TO TOP PLATE CONNECTION,

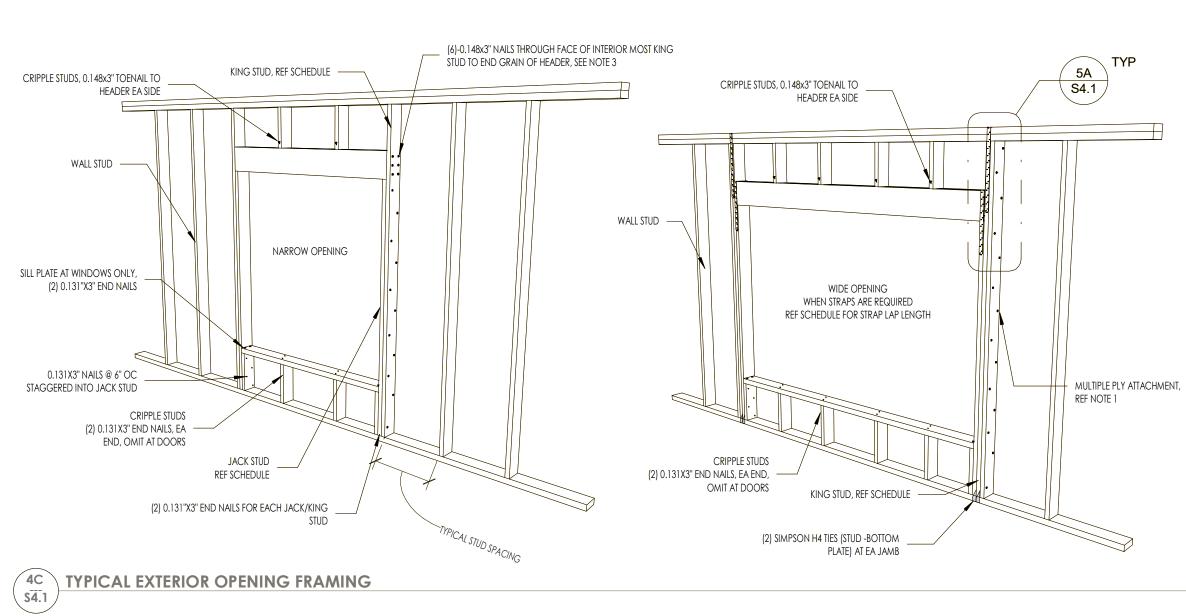
REFER TO CONNECTION ID 3 OF -----

TYPICAL FASTENING SCHEDULE

1. LOAD BEARING WALLS AND ASSOCIATED HEADERS ARE INDICATED ON PLAN.

				NO. JACK	HEADER SIZE						
)		NO. JACK STUDS	OPENING WIDTH (FT)	OPENING WIDTH (FT) PLATE HEIGHT (FT)							
11	12			8	9	10	11	12		2X4 STUD WALL	2X6 STUD WALL
1	1	1	≤ 3	1	1	1	1	1	1	226H	326H
1	1	1	4	1	1	1	1	1	1	226H	326H
2	2	1	5	1	1	1	2	2	1	226H	326H
2	2	1	6	1	1	2	2	2	1	226H	326H
2	3	1	7	1	1	2	2	3	1	226H	326H
3	3	2	8	2	2	2	3	3	1	2210H	3210H
3	3	2	9	2	2	3	3	3	1	2210H	3210H
3	3	2	10	2	2	3	3	3	1	2210H	3210H

NON-LOAD BEARING WALL



			2X4 STUD V	VALL				
	F	REQUIRED NO. OI	F KING STUDS				STDAD	
OPENING WIDTH (FT)			PLATE HEIGH	HT (FT)	NO. JACK STUDS	STRAP LAP LENGTH ⁴	OPENING WID	
	8	9	10	11	12		(IN)	
≤ 3	1	1	1	2	2	1	N/R	≤ 3
4	1	1	2	2	2	1	N/R	4
5	2	2	2	3	3	1	N/R	5
6	2	2	3	3	3	1	N/R	6
7	2	2	3	3	4X6	1	N/R	7
8	3	3	3	4X6	4X6	2	8	8
9	3	3	4X6	4X6	4X6	2	8	9
10	3	3	4X6	4X6	4X6	2	8	10

0

	2X6 STUD WALL								
OPENING	WIDTH (FT)			PLATE HEIGH	NO. JACK STUDS	STRAP LAP ⁴			
		8	9	10	11	12		(IN)	
2	3	1	1	1	1	1	1	N/R	
	4	1	1	1	1	1	1	N/R	
	5	1	1	1	1	2	1	N/R	
	6	1	1	1	2	2	1	N/R	
	7	1	1	2	2	2	1	N/R	
-	8	1	1	2	2	2	2	8	
	9	1	2	2	2	2	2	8	
1	0	1	2	2	2	3	2	8	

7/8"

1 3/8"

1 3/8"

- MAX HOLE DIAMETER, SEE

- DBL STUD, REF

MECHANICALLY

LAMINATED BUILT-UP

COLUMN DETAIL FOR

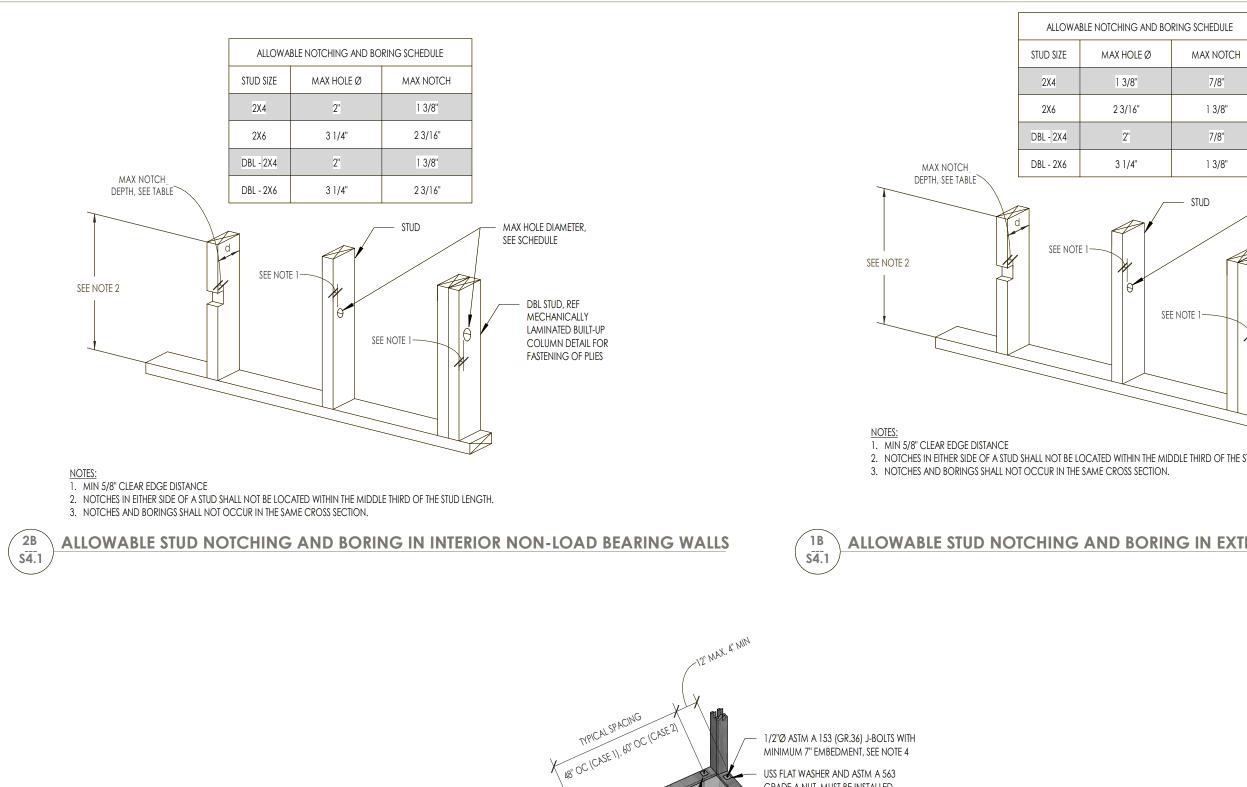
FASTENING OF PLIES

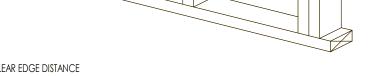
SCHEDULE

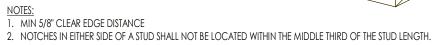
7/8"

NOTE: MULTIPLE PLIES MUST BE ATTACHED PER THE MECHANICALLY LAMINATED BUILT-UP COLUMN_NAILED DETAIL. TABLE IS BASED OFF A HORIZONTAL WIND PRESSURE OF 20 PSF AND GRAVITY LOADING OF 200 PLF.

3. NAILS MUST BE CENTERED ON THE INDIVIDUAL PLIES OF THE HEADER. 4. N/R = NOT REQUIRED. IF N/R, THEN REFERENCE NARROW OPENING DIAGRAM FOR CONNECTION REQUIREMENTS, OTHERWISE REFERENCE THE WIDE OPENING DIAGRAM.







S4.1

2X6

MAX NOTCH DEPTH, SEE TABLE

SEE NOTE 2

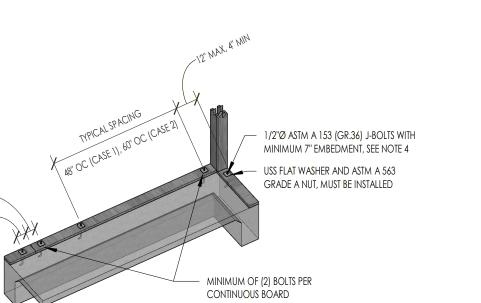
s4.1

DBL - 2X4

DBL - 2X6

SEE NOTE 1-

1B ALLOWABLE STUD NOTCHING AND BORING IN EXTERIOR & LOAD BEARING WALLS

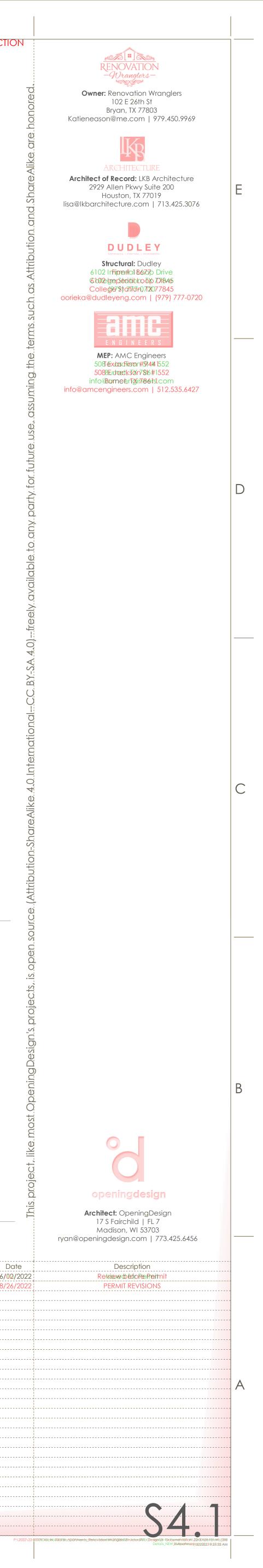


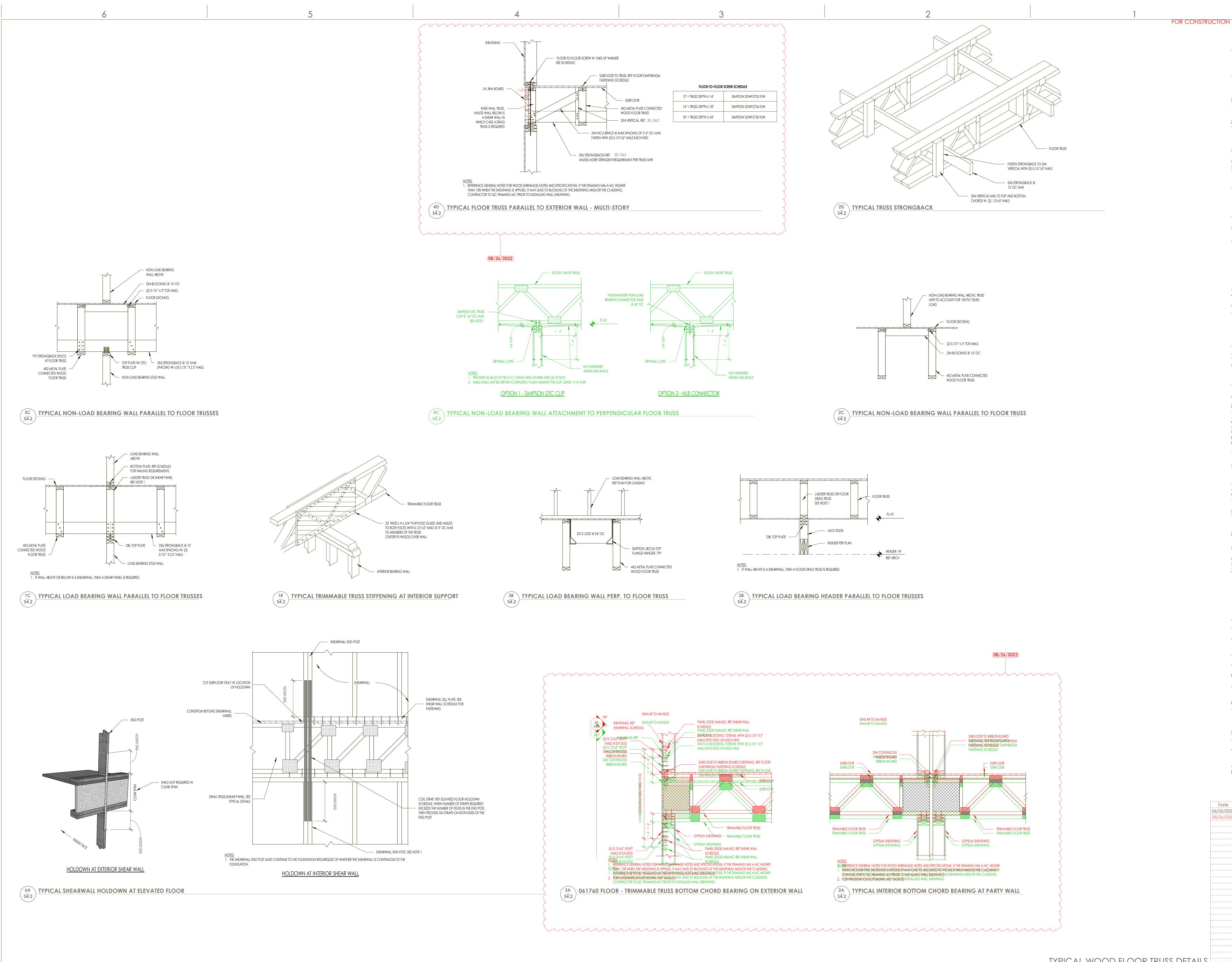
1. CASE 1 = EXTERIOR WALLS THAT ARE NOT SHEAR WALLS. 2. CASE 2 = INTERIOR LOAD BEARING WALLS THAT ARE NOT SHEAR WALLS. 3. FOR WALLS THAT ARE INDICATED TO BE SHEAR WALLS, REFER TO THE SHEAR WALL SCHEDULE FOR ANCHORAGE

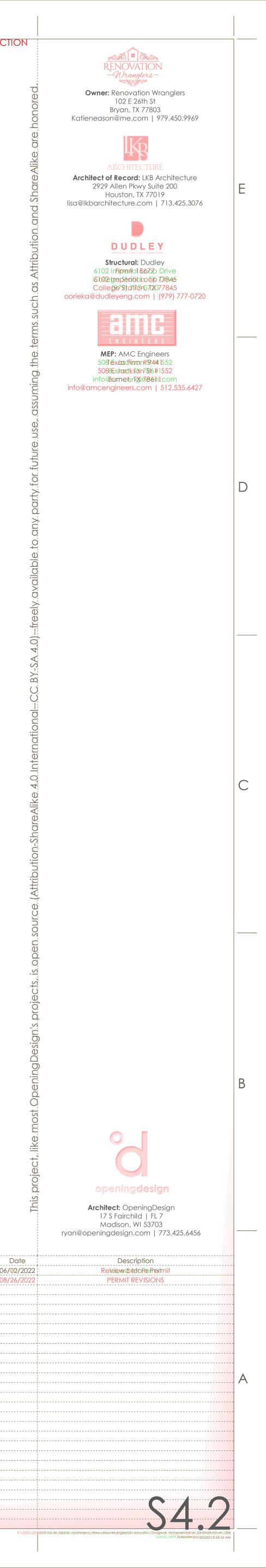
REQUIREMENTS. 4. SIMPSON 1/2'Øx6" TITEN-HD SCREW ANCHORS ARE AN ACCEPTABLE ALTERNATIVE TO THE J-BOLTS.

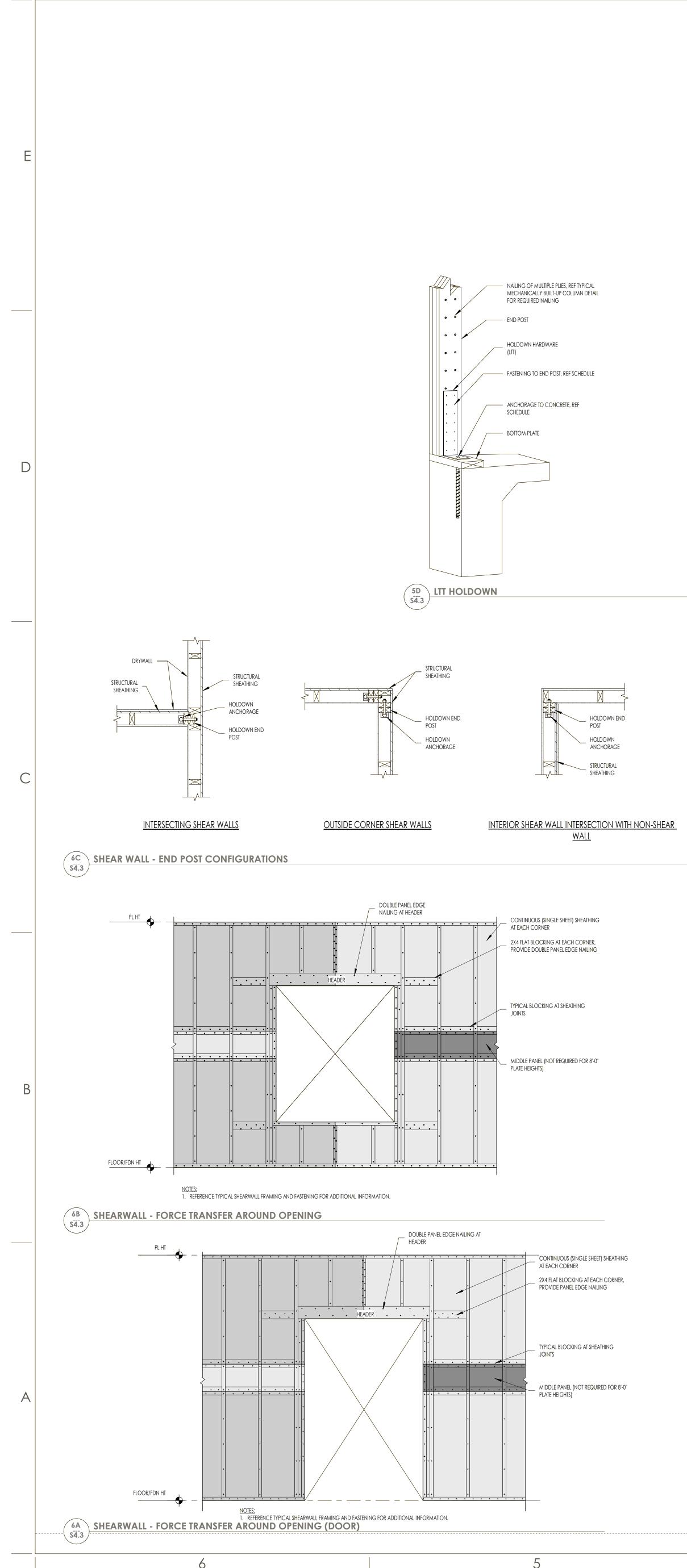
3A TYPICAL LOAD BEARING / SHEAR WALL DOUBLE TOP PLATE SPLICE (2A) TYPICAL BOTTOM PLATE ANCHORAGE

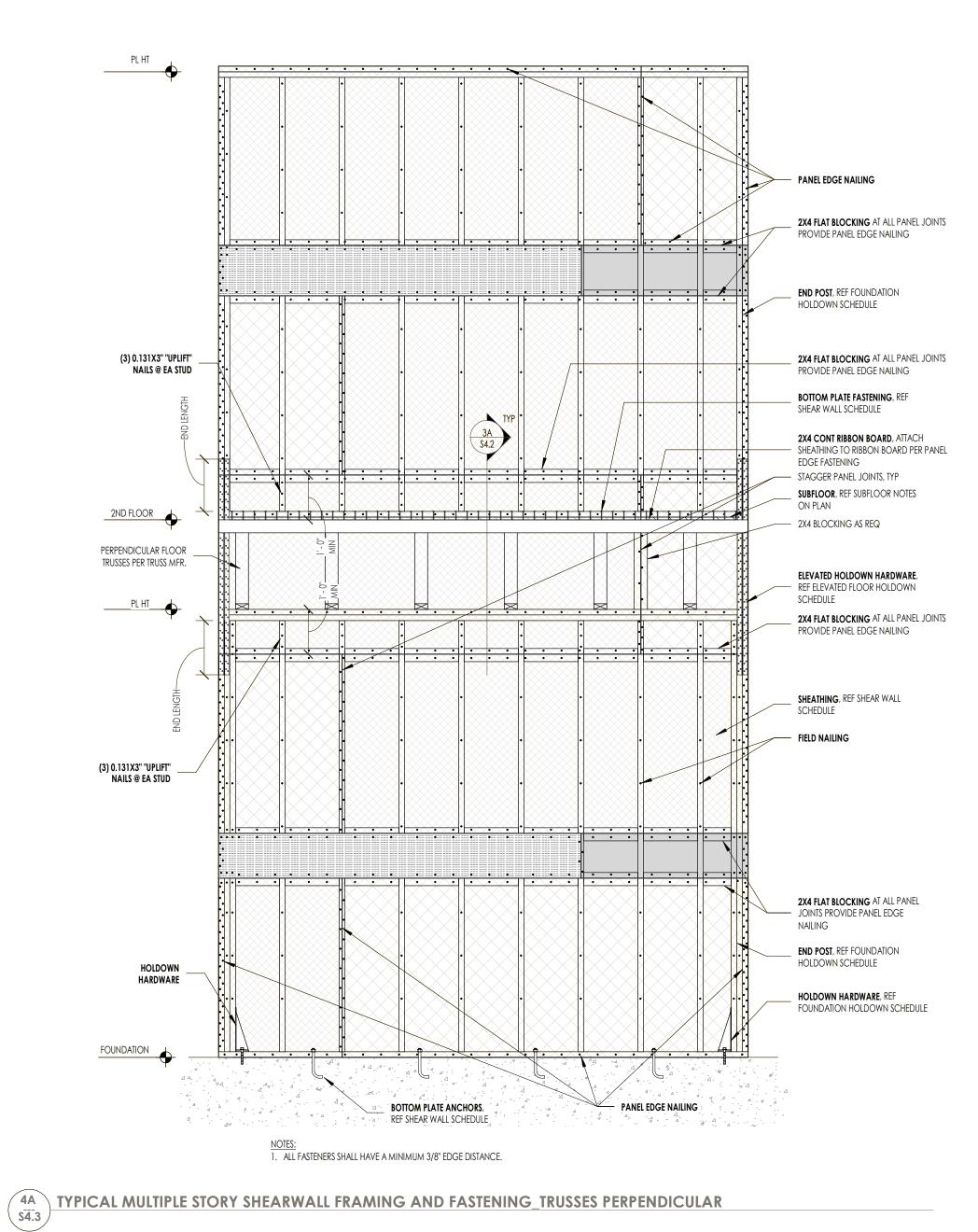
TYPICAL WOOD FRAMING WALL DETAILS MARCO POLO - 101 33RD STREET - CITY OF BRYAN TOWNSITE, BLOCK 96, LOT 3-5 & PT OF 6 & PT OF ALLEY - BRYAN, TX 77803

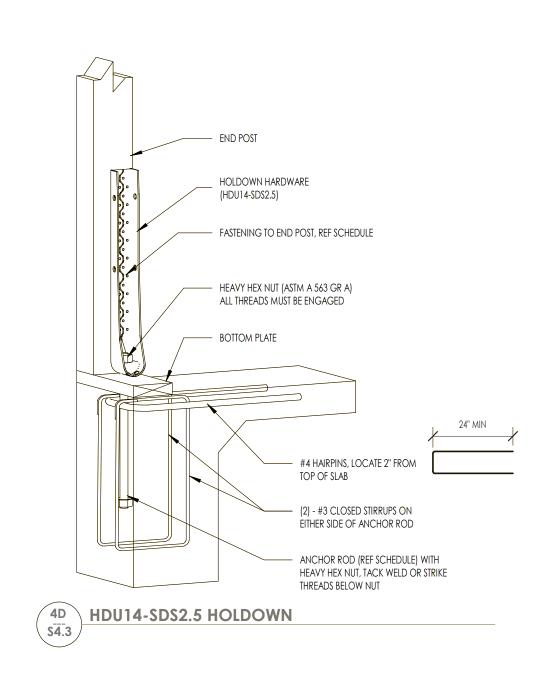


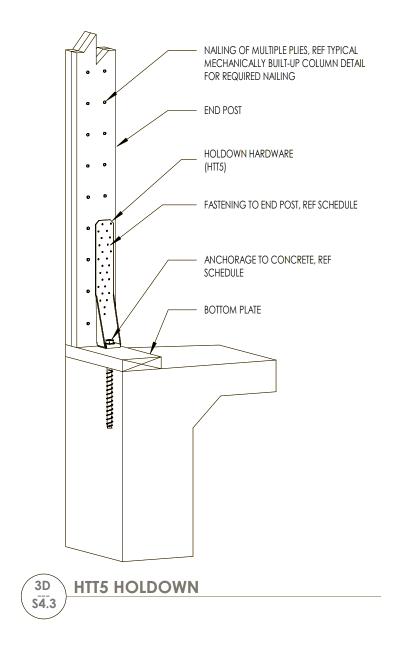




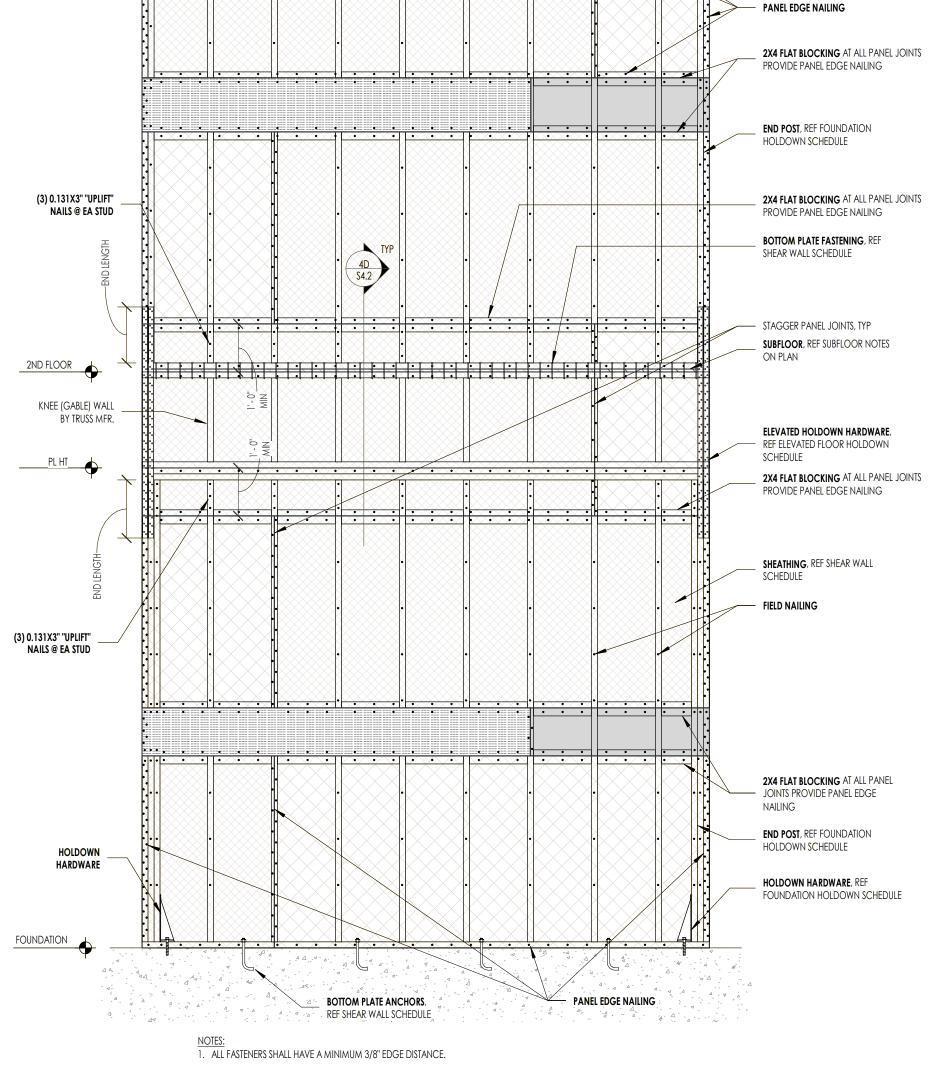




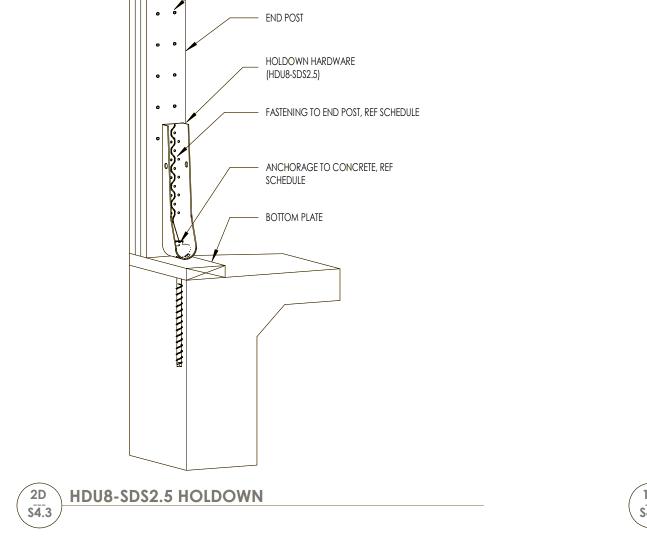








2A TYPICAL MULTIPLE STORY SHEARWALL FRAMING AND FASTENING_TRUSSES PARALLEL



PL HT

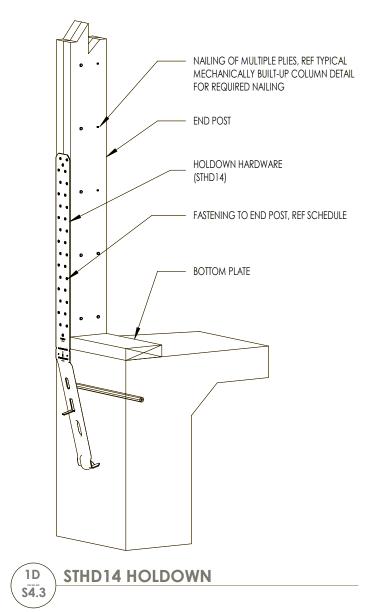
s4.3

_____•

- NAILING OF MULTIPLE PLIES, REF TYPICAL

FOR REQUIRED NAILING

MECHANICALLY BUILT-UP COLUMN DETAIL



Date

