GENERAL FOUNDATION NOTES:

THIS FOUNDATION DESIGN IS SITE SPECIFIC AND MAY NOT BE USED FOR DIFFERENT SITE LOCATIONS WITHOUT WRITTEN PERMISSION FROM LONE STAR STRUCTURAL, LLC

THIS FOUNDATION HAS BEEN DESIGNED AS A GROUND SUPPORTED CONCRETE SLAB-ON-GRADE FOUNDATION, AND AS SUCH WILL MOVE WITH THE SOILS UPON WHICH IT BEARS. THIS DESIGN IS INTENDED TO LIMIT SUCH MOVEMENT TO WITHIN THE DEFLECTION TOLERANCES SET FORTH IN THE INTERNATIONAL BUILDING CODE, EDITION ENFORCED AT TIME OF DESIGN. THIS FOUNDATION DESIGN IS BASED ON GEOTECHNICAL REPORT DONE BY GEOTECHNICAL CONSULTANTS (24018)

DO NOT SCALE THIS DRAWING. THIS IS A SCHEMATIC PLAN TO BE USED TO LOCATE AND IDENTIFY STRUCTURAL FOUNDATION ELEMENTS ONLY. DIMENSIONAL CONTROL IS THE RESPONSIBILITY OF THE BUILDER AND CONTRACTOR TO FOLLOW THE ARCHITECTURAL, DESIGNER PLANS, OR EXISTING SITE CONDITIONS. USE THIS PLAN FOR PLACEMENT OF STRUCTURAL

THE BUILDER SHALL VERIFY ALL DIMENSIONS, SLAB DROP DEPTH AND LOCATIONS, BRICK- LEDGE DEPTH AND LOCATIONS, DOOR LUG LENGTH, DEPTH AND LOCATIONS, SLOPES, AND ALL OTHER NOTED ITEMS WITH THE ARCHITECTURAL OR DESIGNER PLANS AND SHALL NOTIFY THE ARCHITECT OR DESIGNER AND LSS IN WRITING OF ANY DISCREPANCY AND FOR DIRECTIONS TO RESOLVE THE DISCREPANCY. THE ARCHITECTURAL OR DESIGNER PLANS TAKE PRECEDENCE OVER THIS DRAWING IF ANY NON-STRUCTURAL

DIMENSIONAL DISCREPANCY EXISTS. 5 — THE BUILDER SHALL COORDINATE THIS DRAWING WITH ALL STRUCTURAL, CIVIL, ELECTRICAL, AND MECHANICAL PLANS FOR ALL OPENINGS, EMBEDDED ITEMS, DROPS, OFFSETS, SLOPES, ETC. AND SHALL NOTIFY THE ARCHITECT OR DESIGNER AND LSS IN WRITING OF ANY DISCREPANCY AND FOR DIRECTIONS TO RESOLVE THE DISCREPANCY.

SEE SITE PLAN, ARCHITECTURAL PLAN, OR DESIGNER PLAN FOR ACTUAL TOP-OF-SLAB FINISH FLOOR ELEVATION. .8 THE DETAILS DESIGNATED AS "TYPICAL DETAILS", AND NOTES MARKED "TYPICAL" OR "TYP." APPLY GENERALLY TO THE DRAWINGS

IN ALL AREAS WHERE CONDITIONS ARE SIMILAR TO THOSE DESCRIBED IN THE DETAILS. COMPLETE SHOP DRAWINGS SHALL BE PROVIDED, AS SPECIFIED, FOR ALL FABRICATED ITEMS AND SHALL BE REVIEWED PRIOR TO FABRICATION. STRUCTURAL DRAWINGS SHALL NOT BE REPRODUCED FOR SHOP DRAWINGS.

DESIGN DATA AND CRITERIA

THE FOUNDATION DESIGN UTILIZED GUIDANCE PROVIDED IN THE 2018 IBC, ASCE 7-22, AND THE ACI 318-19 2 STRUCTURAL FOUNDATION DESIGN LOADS:

DEAD LOAD: WEIGHT OF BUILDING COMPONENTS AND FOUNDATION COLLATERAL: 5 PSF

GEOTECHNICAL INFORMATION BASED ON GEOTECHNICAL REPORT DONE BY PSI (REPORT No: 0312-1521) - EFFECTIVE PLASTICITY INDEX = 20, MINIMUM 12" OF COMPACTED BASE BELOW SLABS, ALL LARGE ROCKS SHALL BE REMOVED WITHIN THE FORMWORK PRIOR TO CONSTRUCTION.

LIVE LOAD REDUCTIONS ARE NOT USED

ROOF - 20 PSF FLOOR - 40 PSF

CEILING UNINHABITABLE ATTIC SPACES WITH STORAGE- 20 PSF

S<sub>S</sub>: 0.051 S<sub>DS</sub>: 0.044

WIND LOADING

K<sub>D</sub>: .85 GC<sub>Pl</sub>: +0.18, -0.18 WINDWARD WALL CP: 0.8 LEEWARD WALL CP: -0.5 K<sub>7T</sub>: 1 K<sub>7</sub>: 0.57 BASIC WIND SPEED: 115 MPH G: .85 Q<sub>Z</sub>: 16.40 PSF SIDEWALL CP: -0.7 ROOF CP: -.144, -0.18 **EXPOSURE B** 

WINDWARD WALL PRESSURE: 17.57 PSF LEEWARD WALL PRESSURE: -12.36 PSF SIDEWALL PRESSURE: 15.83 PSF ROOF PRESSURE: -21.74 PSF

SITE CLASS: C S<sub>1</sub>: 0.027 S<sub>D1</sub>: 0.027

o SITE PREPARATION AND DRAINAGE I IF A GEOTECHNICAL REPORT EXISTS FOR THE PROJECT, SITE DEVELOPMENT SHALL INCLUDE RE-GRADING AND REMOVAL OF EXISTING SITE NATIVE SOILS, AND PLACEMENT AND COMPACTION OF SELECT STRUCTURAL FILL PERFORMED IN ACCORDANCE

WITH THE GEOTECHNICAL REPORT. AT A MINIMUM, WHERE THE SITE SURFACE SOILS CONSIST OF CLAY OR CLAYEY MATERIALS, A MINIMUM OF 6 INCHES OF SURFACE SOILS SHALL BE EXCAVATED. IN THE CASE OF HEAVY BLACK OR BROWN CLAYS, THE MINIMUM DEPTH OF SOILS REMOVAL IS RECOMMENDED AT 8 INCHES. PROOF ROLLING, SOILS CONSOLIDATION, AND COMPACTING ARE RECOMMENDED. IT IS THE ENGINEER'S RECOMMENDATION THAT IN ACCORDANCE WITH ANY GEOTECHNICAL REPORT. OR IN THE ABSENCE THEREOF. SELECT STRUCTURAL FILLS BE PROVIDED AT THE LOCATION OF PROPOSED FOUNDATION CONSTRUCTION. A MINIMUM DEPTH OF FILL MATERIAL SHALL BE AS SPECIFIED IN THE GEOTECHNICAL REPORT, OR EQUAL TO THE DEPTH OF SURFACE SOILS EXCAVATION. THEREAFTER, ADDITIONAL FILL MATERIAL SHALL BE PROVIDED TO FORM A STRUCTURAL BASE AT THE GREATER OF A MINIMUM OF 12" IN HEIGHT, OR AS REQUIRED FOR PROPER FOUNDATION EXPOSURE. THE STRUCTURAL FILL SHALL CONSIST OF TYPE A CRUSHED LIMESTONE, OR TYPE B CLAYEY CRUSHED GRAVEL, IN ACCORDANCE WITH TXDOT SPECIFICATION ITEM 247 FOR GRADE 1 FILL

SPECIFICATION TEX-113-E, WITH MOISTURE CONTENT CONTROLLED TO CONFORM TO TXDOT SPECIFICATION ITEM 204 "SPRINKLING". TREES WITHIN A DISTANCE TO THE FOUNDATION OF ONE TIMES THE MATURE TREE HEIGHT MAY DAMAGE THE FOUNDATION. EXISTING AND NEWLY PLANTED TREES WITHIN ONE TIMES THE MATURE TREE HEIGHT TO THE FOUNDATION PERIMETER ARE AT THE RISK OF BUILDER AND/OR OWNER AND MUST HAVE A PROPERLY DESIGNED AND PLACED ROOT SHIELD (ROOT BARRIER).

MATERIALS. STRUCTURAL FILL SHALL BE PLACED IN LIFTS OF 8 INCHES, AND COMPACTED IN ACCORDANCE WITH TXDOT

DESIGNED BY AN ARBORIST OR TREE EXPERT, TO INHIBIT TREE ROOT GROWTH TOWARD AND UNDER THE FOUNDATION. VOIDS (HOLES) CREATED AS A RESULT OF DEMOLITION AND REMOVAL OF EXISTING STRUCTURES, TREES, AND OTHER EXISTING OBJECTS SHALL BE FILLED WITH WELL COMPACTED SELECT FILL MATERIAL. THIS IS USUALLY DONE BY LAYERING THE HOLE WITH SELECT FILL MATERIAL APPLYING WATER AND COMPACTING EACH LAYER, COMPACTING WITH HEAVY EARTH MOVING

EQUIPMENT OR A HEAVY TRUCK. CONTINUE THIS PROCESS UNTIL THE HOLE IS FILLED. SITE SURFACE DRAINAGE DURING CONSTRUCTION IS VERY IMPORTANT IN CONTROLLING MOISTURE PROBLEMS ASSOCIATED WITH THE BELOW SLAB FILL, LOT FILL MATERIAL, AND SUB-GRADE SOILS. BUILDER SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM THE FOUNDATION. THE BUILDER IS RESPONSIBLE FOR THE INSTALLATION OF BERMS OR SWALES ON THE UPHILL SIDE OF THE CONSTRUCTION AREA TO DIVERT SURFACE RUNOFF AWAY FROM THE FOUNDATION AREA DURING CONSTRUCTION. THE BUILDER IS RESPONSIBLE FOR LOCATION OF WATER-BEARING UTILITIES, ROOF DRAINAGE OUTLETS, AND IRRIGATION SPRAY

HEADS OUTSIDE OF THE FOUNDATION PERIMETER DRAIN BOUNDARIES. ROOF DOWNSPOUTS SHOULD BE EXTENDED OR BE CONNECTED TO UNDERGROUND PIPING SYSTEMS THAT DIRECT ROOF DRAINAGE WATER AT LEAST FIVE FEET TO "DAYLIGHT" AWAY FROM THE FOUNDATION PERIMETER. ALL AIR CONDITIONING CONDENSER DRAIN LINES SHOULD DISCHARGE A MINIMUM OF FIVE FEET AWAY FROM THE FOUNDATION PERIMETER. THE BUILDER IS RESPONSIBLE FOR CONSTRUCTION OF FINAL SURFACE DRAINAGE PATTERN TO PREVENT PONDING AND LIMIT

SURFACE WATER INFILTRATION AT THE FOUNDATION PERIMETER. LSS IS NOT RESPONSIBLE FOR FOUNDATION WITH INADEQUATE DRAINAGE AND/OR GROUND WATER COLLECTION PROXIMATE TO THE FOUNDATION PERIMETER OR BENEATH THE FOUNDATION. THE GROUND ADJACENT TO THE FOUNDATION SHALL SLOPE DOWN AND AWAY A MINIMUM OF SIX INCHES IN THE FIRST FIVE FEET (10% MIN. SLOPE).

LIVING AREA TOP-OF-SLAB FINISH FLOOR ELEVATION SHALL BE A MINIMUM OF EIGHT INCHES ABOVE THE FINAL LOT GRADE ADJACENT TO THE FOUNDATION PERIMETER. IT IS THE RESPONSIBILITY OF THE BUILDER TO NOTIFY THE PROPERTY OWNER OF THE IMPORTANCE TO MAINTAIN PROPER

SURFACE DRAINAGE SLOPING DOWN AND AWAY FROM THE FOUNDATION PERIMETER AND TO MAINTAIN UNIFORM MOISTURE CONTENT OF THE SOIL AROUND THE FOUNDATION PERIMETER. SYSTEMATIC AND UNIFORM WATERING OF THE SOIL IN THE AREAS SURROUNDING THE FOUNDATION DURING DRY PERIODS MAY BE REQUIRED TO MAINTAIN UNIFORM MOISTURE CONTENT OF THE SOIL. DO NOT OVER-WATER.

o FOUNDATION CONSTRUCTION

FILL MATERIAL PLACED BENEATH THE FOUNDATION SLAB AREAS (SLAB FILL MATERIAL) SHALL BE WELL GRADED GRANULAR LOW PLASTICITY SELECT FILL MATERIAL HAVING A PI OF 5 TO 20 WITH A LIQUID LIMIT NOT EXCEEDING 40 PERCENT. THE FILL MATERIAL SHOULD BE FREE OF ORGANICS, TRASH, RUBBLE, OR OTHER DELETERIOUS MATERIALS AND SHALL HAVE NO PARTICLE SIZE GREATER THAN 3 INCHES IN DIAMETER. CRUSHED LIMESTONE OR CRUSHED AND UNCRUSHED GRAVEL MATERIAL MEETING THE

REQUIREMENTS OF TXDOT ITEM 247, TYPE A, GRADE 1 OR 2. SOIL FROM BEAM EXCAVATION AND OTHER SITE EXCAVATIONS SHALL NOT BE USED AS SLAB FILL MATERIAL.

SLAB FILL MATERIAL SHALL BE COVERED AND PROTECTED FROM GETTING WET PRIOR TO PLACEMENT IN THE FOUNDATION SLAB AREAS AND AFTER PLACEMENT IN THE FOUNDATION SLAB AREAS. THE SLAB FILL MATERIAL SHALL BE A MINIMUM OF (12) TWELVE INCHES THICK BENEATH ALL FOUNDATION SLAB AREAS AND PLACED TO A FINISH GRADE ELEVATION EQUAL TO THE GRADE ELEVATION OF THE BOTTOM OF THE SLAB. THE SLAB FILL MATERIAL

SHALL BE PLACED IN MAXIMUM 6 INCH LIFTS AND MACHINE TAMPED TO REDUCE FILL SETTLEMENT TRENCHING OF GRADE BEAMS SHALL BE EXCAVATED TO PROVIDE THE BEAM CROSS SECTION INDICATED. BEAM AND SLAB DEPTHS AND WIDTHS AS INDICATED ARE MINIMUM ACCEPTABLE SIZES. LARGER SIZE BEAMS AND SLABS FORMED BY LESS ACCURATE TRENCHING MAY REQUIRE ADDITIONAL REINFORCING NOT SHOWN WHICH SHALL BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION REVIEW. ALL LOOSE DIRT FROM SIDES AND BOTTOMS OF TRENCHES SHALL BE REMOVED. HAUNCHES SHALL BE

CUT ON EACH SIDE OF TRENCHES OF ADEQUATE SIZE TO MAINTAIN THE VERTICAL SIDES OF THE TRENCH. NOT USED

IN DEEP SLAB FILL AREAS, BAGGED FILL TO FORM THE WALLS OF BEAM TRENCHES SHALL BE PROHIBITED. THE CONTRACTOR AND/OR BUILDER IS RESPONSIBLE FOR THE STABILITY OF ALL SLAB FILL MATERIAL.

PROVIDE A LAYER OF 10 MIL. POLYETHYLENE VAPOR RETARDER MEMBRANE OR EQUIVALENT BENEATH ALL SLAB AREAS AS A MINIMUM. THE VAPOR RETARDER MEMBRANE MUST BE TAPED AT ALL SPLICES AND TEARS AND PENETRATIONS. RETARDER MEMBRANE MUST COMPLETELY COVER ALL SIDES OF BEAM AND SLAB EXCAVATIONS. MEMBRANE SHALL EXTEND ACROSS BOTTOM OF ALL BEAMS, BARRIER MUST BE FLAT FORMING A SQUARE BOTTOM TO THE BEAM. 10 MIL POLYETHYLENE VAPOR RETARDER IS CONSIDERED A CODE MINIMUM TO REDUCE THE AMOUNT OF WATER VAPOR PENETRATING THE SLAB. 15 MIL. VAPOR RETARDER MEETING THE REQUIREMENTS OF ASTM E-1745 IS RECOMMENDED TO REDUCE MEMBRANE PUNCTURES AND

o ALL EXTERIOR FOUNDATION BEAMS ARE TO BE EXCAVATED AND EMBEDDED INTO UNDISTURBED SOIL OR PROPERLY COMPACTED. LOT FILL MATERIAL TO A MINIMUM DEPTH OF 6 INCHES OR AS NOTED IN THE DETAILS AND DESIGN CHART ON THIS DRAWING, WHICHEVER IS GREATER, OR INTO BEDROCK TO A MINIMUM DEPTH OF 4 INCH.

REMOVE FREE WATER FROM BEAM TRENCHES AND ALL OTHER EXCAVATIONS BEFORE PLACING CONCRETE. CLEAN BOTTOM OF BEAM TRENCHES OF LOOSE SOIL, ROOTS, GRAVEL, AND ALL DEBRIS PRIOR TO PLACING CONCRETE. CONCRETE SHALL NOT BE PLACED ON SOILS THAT HAVE BEEN DISTURBED BY RAINFALL OR WATER SEEPAGE. 2 FORMWORK SHORING SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE

(ACI) ACI 347, "STANDARD FOR DESIGN AND PLACEMENT OF CONCRETE FORMWORK", ALL CONCRETE SHALL BE PLACED IN ACCORDANCE WITH ACI 302.1R. PROPER CURING OF ALL CONCRETE SURFACES SHALL BE PROVIDED BY THE BUILDER AND IN ACCORDANCE WITH THE LATEST

EDITION OF ACI 308, "STANDARD PRACTICE FOR CURING CONCRETE." IF SPRAY-ON CURING COMPOUNDS ARE USED, THEY NEED TO BE COMPATIBLE WITH SUBSEQUENT FINISH APPLICATIONS.

4.15 DO NOT PLACE CONCRETE WHEN TEMPERATURE IS BELOW 40 DEGREES FAHRENHEIT UNLESS COLD WEATHER CONCRETE PROCEDURES ARE FOLLOWED. CALCIUM CHLORIDE SHALL NOT BE USED. PROVIDE SPECIAL CARE TO PREVENT HIGH TEMPERATURES DURING HOT WEATHER CONDITIONS IN FRESH CONCRETE. USE WATER REDUCING SET RETARDING ADMIXTURES IN SUCH QUANTITIES AS SPECIFICALLY RECOMMENDED BY THE MANUFACTURER TO ASSURE THE CONCRETE REMAINS WORKABLE. DO NOT POUR CONCRETE IF FREEZING TEMPERATURES ARE PREDICTED WITHIN 7 DAYS OF CONCRETE PLACEMENT. DURING HOT WEATHER CLIMATE CONDITIONS CONTRACTOR IS RESPONSIBLE FOR REDUCING THE SPEED OF HYDRATION TO PREVENT SURFACE CRACKS WITH IN THE SLAB.

4.16 SCHEDULING OF CONCRETE DELIVERY SHALL BE SUCH TO PREVENT PLACED CONCRETE FROM HARDENING PRIOR TO PLACEMENT OF ADDITIONAL FRESH CONCRETE. NO HORIZONTAL JOINTS WILL BE PERMITTED IN THE CONCRETE EXCEPT AS NOTED. THE BUILDER SHALL CONTACT LSS PRIOR TO PLACING ANY CONCRETE IF CONSTRUCTION JOINTS ARE REQUIRED

4.17 SLAB SURFACE FINISH SHALL BE TROWELED FINISHES SUITABLE (TRUE AND LEVEL) FOR DIRECT APPLICATION OF VINYL FLOOR FINISH AND/OR CARPET OR PER THE BUILDER AND/OR OWNER REQUIREMENTS. SLAB FINISH TOLERANCES SHALL BE TRUE PLANES WITHIN 1/8 INCH IN 10 FEET AS DETERMINED BY A 10 FOOT DIRECTION.

4.18 PROVIDE EXPANSION JOINT MATERIAL BETWEEN BUILDING FOUNDATIONS AND ADJACENT CONCRETE WALKS AND PAVEMENT, 1/2 INCH MIN BY DEPTH OF WALK. SEAL EXPANSION JOINTS WITH FLEXIBLE SEALANT BY SIKA CORP. UNLESS NOTED OTHERWISE PROVIDE SMOOTH DOWELS 1/2 INCH BY 16 INCHES LONG AT 18 INCHES ON CENTER ALONG ALL ENTRIES. LOCATE DOWELS BELOW FOUNDATION TOP BEAM OR SLAB REINFORCEMENT.

5.0 CONCRETE AND REINFORCING STEEL

ALL CONCRETE AND REINFORCING STEEL SHALL MEET LATEST EDITION OF ASTM A615 AND ACI 117 "STANDARD TOLERANCES FOR

CONCRETE CONSTRUCTION AND MATERIALS 5.2 WHILE SOME SHRINKAGE CRACKING IS TO BE EXPECTED IN THE CONCRETE, IT HAS BEEN SHOWN TO BE SIGNIFICANTLY REDUCED THROUGH PROPER CURING PROCEDURES AND PROPER CONTROL OF ADMIXTURES. ONLY THOSE ADMIXTURES HAVING SPECIFIC WRITTEN AUTHORIZATION OF THE DESIGN ENGINEER SHALL BE INTRODUCED WITH THE CONCRETE MIX.

5.3 TESTING SHALL BE THE SOLE RESPONSIBILITY OF THE BUILDER, AND ANY SUBSTANDARD STRENGTHS SHALL BE REPORTED TO LSS. 5.4 CONCRETE SHALL BE PLACED IN ACCORDANCE WITH LATEST EDITION OF ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR

5.5 CONCRETE COMPRESSIBLE STRENGTH SHALL BE 3000 PSI MINIMUM STRENGTH AT 28 DAYS.

5.6 CEMENT SHALL BE TYPE 1 (GRAY) PORTLAND. MAXIMUM WATER CEMENT RATIO SHALL BE 0.5 AND A SLUMP RANGE OF 2 TO 5 INCHES. CONTRACTOR SHALL SATISFY HIMSELF THAT THE MIX DESIGN IS ACCEPTABLE FOR ITS INTENDED PURPOSE.

5.7 REINFORCING STEEL SHALL MEET LATEST EDITION OF ASTM A-615, GRADE 60 DEFORMED BARS. #3 BARS MAY BE GRADE 40. 5.8 WELDED WIRE MESH (WWM) SHALL MEET LATEST EDITION OF ASTM A-185 OR ASTM A-497. USE FLAT SHEETS ONLY. ALL LAPS TO BE

5.9 ALL REINFORCEMENT SHALL BE SECURELY SUPPORTED AT 48" O.C. TO PREVENT VERTICAL AND HORIZONTAL MOVEMENT DURING THE PLACEMENT OF CONCRETE. METAL, PLASTIC, CONCRETE, OR MASONRY CHAIRS MAY BE USED TO SUPPORT REINFORCEMENT. SLAB REINFORCING SHALL BE CENTERED IN CONCRETE SLAB THICKNESS. 5.10 SLAB REINFORCING BARS SHALL BE TIED AT EVERY OTHER INTERSECTION AND SUPPORTED AT 48 INCHES O.C. WITH METAL.

PLASTIC. CONCRETE. OR MASONRY CHAIRS. EVERY STIRRUP BAR SHALL BE TIED AT BOTH TOP AND BOTTOM BEAM REINFORCING BAR LOCATION. STIRRUPS ARE TO BE INSTALLED VERTICALLY. ANGLED STIRRUPS ARE NOT PERMITTED. 5.11 ALL BEAM REINFORCING BARS SHALL HAVE A MINIMUM CLEAR COVER OF 3 INCHES FROM THE BOTTOM OF THE BEAM AND 2

INCHES FROM THE TOP AND SIDES OF THE BEAM. 5.12 REINFORCING STEEL LAPS AND SPLICES SHALL BE A MINIMUM OF 30 BAR DIAMETERS, BUT NO LESS THAN 12 INCHES. SPLICES OF THE TOP AND BOTTOM BEAM REINFORCEMENT SHALL BE STAGGERED A MINIMUM OF 5 FEET.

5.13 ALL BEAM SIZES, SLAB THICKNESS, AND REINFORCING SIZES ARE A MINIMUM AND SHALL NOT BE DECREASED WITHOUT PRIOR

5.14 ALL BEAM SPACING ARE MAXIMUM AND SHALL NOT BE INCREASED OR RELOCATED WITHOUT APPROVAL BY LSS. 5.15 FOR EXTERIOR BEAMS REQUIRING DEPTHS EXCEEDING 3 FEET DUE TO GRADE CONDITIONS, PROVIDE 2-#4 INTERMEDIATE HORIZONTAL BARS AT 18" CENTERS IN ADDITION TO REINFORCING NOTED ABOVE. BEAMS GREATER THAN 6 FEET DEEP REQUIRES STIRRUP SPACING @ 16" O.C. MAX, AND THE USE OF A THICKENED SLAB AREA. THICKENED SLABS SHALL BE 4'-0" WIDE AND 8" IN DEPTH MINIMUM WITH AN ADDITIONAL MATT LAYER OF #4 BARS 12" O.C.E.W.

5.16 WHERE ROCK IS ENCOUNTERED SHALLOWER THAN THE DETAILED BEAM DEPTH, THE BEAM MAY BE REDUCED IN DEPTH TO A MINIMUM OF 24"

5.17 ALL EXTERIOR BEAMS SHALL EXTEND AT LEAST SIX (6) INCHES INTO UNDISTURBED SOIL UNLESS FILL HAS BEEN TESTED AND CERTIFIED TO HAVE BEEN PLACED IN COMPLIANCE WITH F.H.A. DATA SHEET 79-G. TEST DATA SHALL ALSO INDICATE THE PLASTICITY INDEX OF FILL MATERIAL. A REDESIGN OF THE FOUNDATION WILL BE REQUIRED IF FOREIGN MATERIAL WITH A PLASTICITY INDEX GREATER THAN 10 ABOVE THE DESIGN STANDARD IS USED FOR FILL MATERIAL.

6.1 LSS ACCEPTS NO RESPONSIBILITY FOR THE PERFORMANCE OF THIS FOUNDATION UNLESS SITE OBSERVATIONS ARE PERFORMED BY LSS OR A REPRESENTATIVE OF LSS AND THE CONCRETE IS PLACED WITHIN 48 HOURS AFTER THE LSS SITE OBSERVATION

6.2 OBSERVATIONS MADE BY LSS ARE TO CHECK FOR GENERAL CONFORMANCE WITH THE LSS PLANS AND SPECIFICATIONS. THE RESPONSIBILITY FOR INSURING ACCURACY OF THE CONSTRUCTION AND QUALITY CONTROL PROCEDURES REMAINS WITH THE

6.5 NOTIFY LSS AT LEAST 48 HOURS BEFORE EACH SITE OBSERVATION INSPECTION IS NEEDED.

7.1 SEE CHART PROVIDED FOR TYPICAL WALL FRAMING UNLESS NOTED OTHERWISE

8.0 GENERAL FRAMING NOTES

8.1 THE STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODE AND 2018 IRC

8.2 THE STRUCTURE HAS BEEN DESIGNED TO WITHSTAND THE WIND PRESSURES FOR 115 MPH WIND LOAD AND EXPOSURE B AS SPECIFIED IN THE ABOVE REFERENCED CODE.

8.3 LIVE LOAD REDUCTIONS FOR THE STRUCTURE ARE IN STRICT ACCORDANCE WITH THE AFOREMENTIONED CODE. 8.4 METHODS AND PROCEDURES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF

8.5 ANY DISCREPANCY BETWEEN THE DIMENSIONS INDICATED ON THE STRUCTURAL AND ARCHITECTURAL CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER. 8.6 REFER TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR SLEEVES, CURBS, INSERTS, ETC. NOT

HEREIN INDICATED. OPENINGS IN SLABS WITH A MAXIMUM SIDE DIMENSION OR DIAMETER OF 12 INCHES OR LESS SHALL NOT REQUIRE ADDITIONAL REINFORCEMENT. UNLESS NOTED OTHERWISE. THE LOCATION OF SLEEVES OR OPENINGS IN STRUCTURAL MEMBERS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER

8.7 THE USE OF REPRODUCTIONS OF THESE CONTRACT DRAWINGS BY ANY CONTRACTOR, ERECTOR, FABRICATOR 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 10B EXPENSE. REAL OR IMPLIED. DUE TO ANY ERRORS THAT MAY OCCUR HEREON. 8.6 ALL ERECTION PROCEDURES SHALL CONFORM TO OSHA STANDARDS. ANY DEVIATION MUST BE APPROVED BY OSHA PRIOR TO

8.10 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 NATIONAL, STATE

AND LOCAL SAFFTY ORDINANCES. 8.11 THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ANY DISCREPANCY SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND BE RESOLVED BEFORE

PROCFEDING WITH ANY WORK 8.12 DRAWINGS INDICATE GENERAL AND TYPICAL CONSTRUCTION DETAILS. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED, BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR CONSTRUCTION DETAILS SHALL BE USED SUBJECT

TO REVIEW BY THE ENGINEER. 8.13 UNSHEATHED INTERIOR OR EXTERIOR BEARING AND SHEAR WALLS SHALL HAVE CONTINUOUS, HORIZONTAL BLOCKING OR BRACING AT MID-HEIGHT OF STUDS PRIOR TO APPLYING FULL DESIGN LOADS TO THE SAME. BLOCKING SHALL BE PROVIDED AT

ALL SHEATHING SEAMS. 8.14 ANCHOR BOLTS SHALL CONFORM TO ASTM A307, UNLESS NOTED OTHERWISE ON PLANS.

8.15 EXPANSION ANCHORS SHALL BE HILTI "KWIK BOLTS" OR AN APPROVED EQUAL

8.16 ADHESIVE ANCHORS SHALL USE HILTI HVU ADHESIVE OR APPROVED EQUAL.

8.17 POWDER ACTUATED FASTENERS SHALL BE HILTI "DS SERIES FASTENERS" OR AN APPROVED EQUAL.

8.18 HOLDDOWNS, STRAPS AND HURRICANE CLIPS SHALL BE INSTALLED ACCORDING TO SIZE AND SPACING SHOWN ON PLANS. ALTERNATES SHALL BE SUBMITTED TO ENGINEER FOR REVIEW. 8.19 PROVIDE SIMPSON "STANDARD U JOIST HANGERS" AT FLUSH JOIST CONNECTIONS AND SIMPSON "B/HB BEAM HANGERS" AT

MANUFACTURED BY SIMPSON STRONG-TIE. WHEN FASTENING ITEMS OTHER THAN WHAT IS DETAILED, TECHNICAL DATA SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL. 8.20 ROOF SHEATHING SHALL BE PLYWOOD EXPOSURE 1 STANDARD C-D EXTERIOR GRADE WITH EXTERIOR GLUE WITH PANEL

FLUSH BEAM. CONNECTIONS EXCEPT AS NOTED ON PLANS. ALL WOOD FASTENING ITEMS SHALL BE EQUAL TO THOSE

SPAN RATING OF 48/20. THICKNESS OF SHEATHING SHALL BE AS SHOWN ON PLANS. 8.21 PLYWOOD DECKING FOR FLOORS SHALL BE AS SHOWN ON PLANS, APA RATED STANDARD C-D INTERIOR WITH EXTERIOR GLUE WITH PANEL SPAN RATING OF 48/24. INSTALL DECKING WITH FACE GRAIN ACROSS SUPPORT.

8.22 PLYWOOD SHEATHING AT SHEAR WALL SHALL BE EXTERIOR GRADE WITH RATING 24/o. 8.23 PLYWOOD SHEATHING FOR CHIMNEY CONSTRUCTION AND OTHER MISCELLANEOUS USES SHALL BE REQD. FOR SHEAR WALLS AND SHALL BE 1/2" THICK, EXTERIOR GRADE.

8.24 GYPSUM SHEATHING FOR EXTERIOR WALLS SHALL BE FREE OF CRACKS AND IMPERFECTIONS AND CONFORM TO ASTM C79-76A. THICKNESS OF SHEATHING SHALL BE SCHEDULED IN SHEAR WALL SCHEDULE. 8.25 GYPSUM WALLBOARD FOR INTERIOR USE SHALL BE FREE OF CRACKS AND IMPERFECTIONS AND CONFORM TO ASTM C36-76A.

THICKNESS OF WALLBOARD SHALL BE AS SCHEDULED IN SHEAR WALL SCHEDULE. 8.26 ALL SHEATHING, WALLBOARD AND DECKING SHALL BE NAILED IN ACCORDANCE WITH REQUIREMENTS SHOWN ON SCHEDULE SHEET FOR SHEAR WALLS AND DIAPHRAGMS.

9.0 LIGHT GAUGE METAL FRAMING

ALL LIGHT GAUGE STRUCTURAL FRAMING MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF AISI "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS"

9.2 ALL LIGHT GAUGE STRUCTURAL FRAMING MEMBERS SHALL BE THE TYPE AND SIZE NOTED OR APPROVED EQUIVALENT. 9.3 ALL LIGHT GAUGE STEEL FRAMING MATERIALS SHALL BE FORMED FROM HOT DIPPED GALVANIZED STEEL G-60 COATING, MEETING ASTM-A525 AND C64.5. THE FOLLOWING GRADES SHALL BE USED: - 33 MIL (20 GAUGE) 33 KSI

-43 MIL (18 GAUGE) 33 KSI - 54 MIL (16 GAUGE) 50 KSI

- 97 MIL (12 GAUGE) 50 KSI

- 68 MIL (14 GAUGE) 50 KSI

9.4 TRACKS SHALL BE ANCHORED, AS SHOWN, STUDS SHALL BE SEATED PLUMB AND SQUARE. SPLICING OF STUDS, SHALL BE

9.5 FRAMING MEMBERS SHALL BE CUT BY SAWING OR SHEARING, DO NOT TORCH CUT

9.6 FASTEN COLD FORMED STEEL FRAMING MEMBERS BY WELDING, SCREW FASTENING, OR RIVETING. WIRE TYING OF FRAMING MEMBERS IS NOT PERMITTED.

9.7 COMPLY WITH AWS D1.3/D1.3M REQUIREMENTS AND PROCEDURES FOR WELDING, APPEARANCE OF WELDS, AND QUALITY OF

9.8 INSTALL TEMPORARY BRACING AND SUPPORTS TO SECURE FRAMING AND SUPPORT LOADS COMPARABLE IN INTENSITY TO THOSE FOR WHICH THE STRUCTURE WAS DESIGNED.

10.0 COMPOSITE METAL DECKING & HEADED SHEAR ANCHORS

10.1 METAL DECKING SHALL BE 20 GA. PLB TYPE DECKING.

10.2 METAL DECKING SHALL HAVE A SECTION MODULUS OF I=.237

10.3 UNLESS NOTED, THE METAL DECKING SHALL HAVE A MINIMUM OF A 3 SPAN CONDITION AND GALVANIZED WITH A G-90 COATING.

10.5 CONCRETE SHALL BE A MINIMUM OF 3,00 PSI AT 28-DAY STRENGTH 10.6 CONCRETE REINFORCEMENT SHALL BE REINFORCED WITH 4X4-W4.5XW4.5 WWM CHAIRED TO BE LOCATED 4" BELOW THE TOP OF THE SLAB. PROVIDE A 6'-0" WIDE EXTRA LAYER OF MESH OVER ALL INTERIOR BEAMS AND GIRDERS SPANNING PARALLEL TO DECK

10.4 METAL DECKING SHALL BE FASTENED WITH A 36 / 7 ATTACHMENT PATTERN UTILIZING 1½" SEAM WELDS PUDDLE WELDS UNLESS

10.7 ALL BEAMS AND GIRDERS, SHALL HAVE HEADED SHEAR ANCHORS SPACED IN A SINGLE ROW, SPACED NOT MORE THAN 18" O.C. 10.8 METAL EDGE FORMS SHALL BE 14 GA. COLD FORMED STEEL WITH 2" RETURN LIP. WELD EDGE FORM TO SUPPORTING BEAMS 12" O.C.

10.9 MAIN MECHANICAL, ELECTRICAL, OR PLUMBING SYSTEMS, SHALL NOT BE SUPPORTED BY THE STEEL DECKING.

OTHERWISE NOTED.

11.1 STRUCTURAL STEEL SHALL CONFORM TO THE FIFTEENTH EDITION OF THE STEEL CONSTRUCTION MANUAL BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.

11.2 CONTRACTOR SHALL VERIFY ALL SIZES, DIMENSIONS, AND LOCATIONS OF ALL FLOOR OPENINGS FOR MECHANICAL AND ELECTRICAL REQUIREMENTS. ALL LOCATIONS SHALL BE COORDINATED WITH ASSOCIATED CONTRACTORS PRIOR TO THE FABRICATION OF MATERIALS.

11.3 ALL HOT ROLLED STEEL MEMBERS SHALL BE NEW AND CONFORM TO ASTM SPECIFICATION A6.

11.4 ASTM SPECIFICATION AND GRADE - CLEARLY MARK THE GRADE ON EACH MEMBER.

11.5 UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS, STRUCTURAL STEEL MEMBERS SHALL BE:

11.5.1 W SHAPES SHALL CONFORM TO ASTM A992.

11.5.2 ANGLES SHALL CONFORM TO ASTM A36. 11.5.3 ROUND HOLLOW STRUCTURAL SHAPE MEMBERS SHALL CONFORM TO ASTM A500, GRADE B FY=42 KSI.

11.5.4 SQUARE OR RECTANGULAR HOLLOW STRUCTURAL SHAPE MEMBERS SHALL CONFORM TO ASTM A500 GRADE B,

11.5.6 ANY OTHER STEEL SHALL CONFORM TO ASTM A36.

11.5.7 HEADED STUD SHEAR CONNECTORS SHALL CONFORM TO ASTM A108. 11.6 SPLICING OF STRUCTURAL STEEL MEMBERS IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE ENGINEER AS TO LOCATION

11.5.5 STRUCTURAL STEEL PLATE SHALL CONFORM TO ASTM A36.

AND TYPE OF SPLICE TO BE MADE. ANY MEMBER HAVING SPLICE NOT SHOWN AND DETAILED ON SHOP DRAWINGS WILL BE

11.7 ERECTION TOLERANCES OF ANCHOR BOLTS, EMBEDDED ITEMS, AND ALL STRUCTURAL STEEL UNLESS SPECIFIED OTHERWISE ON THE STRUCTURAL DRAWINGS SHALL CONFORM TO THE AISC CODE OF STANDARD PRACTICE.

11.8 FIELD CUTTING OF STRUCTURAL STEEL OR ANY FIELD MODIFICATIONS TO STRUCTURAL STEEL SHALL NOT BE MADE WITHOUT PRIOR APPROVAL OF THE ENGINEER. 11.9 CONTRACTOR SHALL PROTECT ANY UNPRIMED STRUCTURAL STEEL FROM DETRIMENTAL EFFECTS OF CORROSION, AS

REQUIRED, UNTIL THE STEEL IS ENCLOSED AND PROTECTED BY THE NEW CONSTRUCTION. 11.10 ALL WELDING SHALL CONFORM TO ANSI/AWS D1.1, LATEST EDITION.

11.11 FILLET WELDS WITH NO SIZE SPECIFIED SHALL BE 3/16 INCH OR MINIMUM SIZE REQUIRED BY AISC, WHICHEVER IS LARGER. 11.12 STRUCTURAL STEEL CONNECTIONS NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED AND DETAILED BY THE CONTRACTOR UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE HAVING JURISDICTION AT THE PROJECT SITE. SEALED CALCULATIONS FOR ALL CONNECTIONS DESIGNED BY THE

CONTRACTOR SHALL BE SUBMITTED FOR THE ARCHITECT'S FILES. 11.13 BEAM CONNECTIONS SHALL BE DESIGNED AND DETAILED AS FOLLOWS, UNLESS NOTED OTHERWISE ON THE STRUCTURAL

CONNECTIONS SHALL BE FULLY WELDED WITH A MINIMUM ?" FILLET WELD ALL SIDES. IF NOT INDICATED ON THE STRUCTURAL DRAWINGS, CONNECTIONS SHALL BE DESIGNED FOR 55 PERCENT OF THE TOTAL LOAD CAPACITY FOR THE BEAM SPAN SHOWN IN THE BEAM TABLES IN THE AISC MANUAL, FOURTEENTH EDITION.

IF NOT INDICATED ON THE STRUCTURAL DRAWINGS, MOMENT CONNECTIONS SHALL BE WELDED TO DEVELOP THE FULL CAPACITY OF THE MEMBER. ALL WELDS DENOTED AS MOMENT CONNECTION OR COMPLETE JOINT PENETRATION (CJP) WELD SHALL BE

ULTRASONICALLY OR X-RAY CERTIFIED BY AN INDEPENDENT TESTING AGENCY. ALL BEAM SHEARS, REACTIONS, MEMBER FORCES, MOMENTS, ETC. SHOWN ON THE STRUCTURAL DRAWINGS ARE UNFACTORED LOADS CONFORMING TO THE REQUIREMENTS OF AISC ALLOWABLE STRESS DESIGN (ASD).

ROOF EDGE ANGLES SHALL BE CONTINUOUS AND SHALL BE SPLICED ONLY AT SUPPORTS. SPLICES SHALL BE

BUTT WELDED TO DEVELOP FULL CAPACITY OF THE MEMBER. COLUMN BASE PLATES SHALL BE SET WITH THE TOP SURFACE LEVEL WITH THE FINISHED FLOOR.

PLATES SHALL BE SET PLUMB AND LEVEL. HOLE SIZES IN BASE PLATES SHALL BE OVERSIZED WITH PLATE WASHERS PER AISC TABLE 14-2. ANCHOR RODS SHALL BE: 11.13.10

FOR CONNECTIONS NOT SPECIFICALLY ADDRESSED BY THESE NOTES OR THE STRUCTURAL DRAWINGS, PROVIDE FILLET WELDS AT ALL CONTACT SURFACES SUFFICIENT TO DEVELOP THE TENSILE STRENGTH OF THE SMALLER MEMBER AT THE JOINT.

11.14 STRUCTURAL STEEL ITEMS INTENDED TO BE EMBEDDED INTO CONCRETE SHALL NOT BE COATED. 11.15 ALL BOLTED CONNECTIONS, SHALL BE 3" DIAMETER ASTM A325-X, WITH WASHERS, UNLESS NOTED. BOLTED CONNECTIONS SHALL BE BEARING TYP CONNECTIONS UNLESS OTHERWISE DETAILED. BOLT THREADS ARE NOT PERMITTED IN THE PLANE

OF SHEAR. ALL BOLTED CONNECTIONS SHALL BE "SNUG TIGHT" 11.16 ALL STRUCTURAL STEEL SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR. IT IS THE CONTRACTORS RESPONSIBILITY TO REVIEW THE FIELD WELD, AND CONNECTIONS FOR COMPATIBILITY WITH THE CONSTRUCTION SEQUENCE. PROPOSED REVISIONS, SHALL BE IDENTIFIED BY THE CONTRACTOR ON THE SHOP DRAWINGS AND APPROVED BY THE SEOR.

11.16 HEADED CONCRETE ANCHORS, (HCA) SHALL BE 50,000 PSI STEEL DOS WITH UPSET ENDS, AUTOMATICALLY WELDED THROUGH CERAMIC FURRELES. "NELSON CONCRETE ANCHORS" OR EQ. ASTM A108-60T

11.17 DEFORMED BAR ANCHORS SHALL BE ASTM A496.

TYPICAL ASTM F1554 GR.36, WELDABLE

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THE PROFESSIONAL ENGINEER WHOSE SEAL APPEARS ON THE STRUCTURAL CONSTRUCTION DOCUMENTS IS THE PROJECT STRUCTURAL ENGINEER OF RECORD (SER) WHO BEARS LEGAL RESPONSIBILITY FOR THE PERFORMANCE OF THE STRUCTURAL COMPONENTS RELATING TO THE PUBLIC HEALTH, SAFFTY AND WEI FARE, NO OTHER PARTY, WHETHER OR NOT A PROFESSIONA ENGINEER, MAY COMPLETE, CORRECT, REVISE, DELETE OR ADD TO THESE CONSTRUCTION DOCUMENTS OR PERFORM INSPECTIONS OF THE WORK WITHOUT THE WRITTEN PERMISSION OF

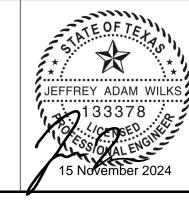
STAR STRUCTURAL, LLC. FOR USE SOLELY WITH RESPECT TO THIS PROJECT AND SHALL NOT BE

REPRODUCED FOR OTHER PROPOSES.



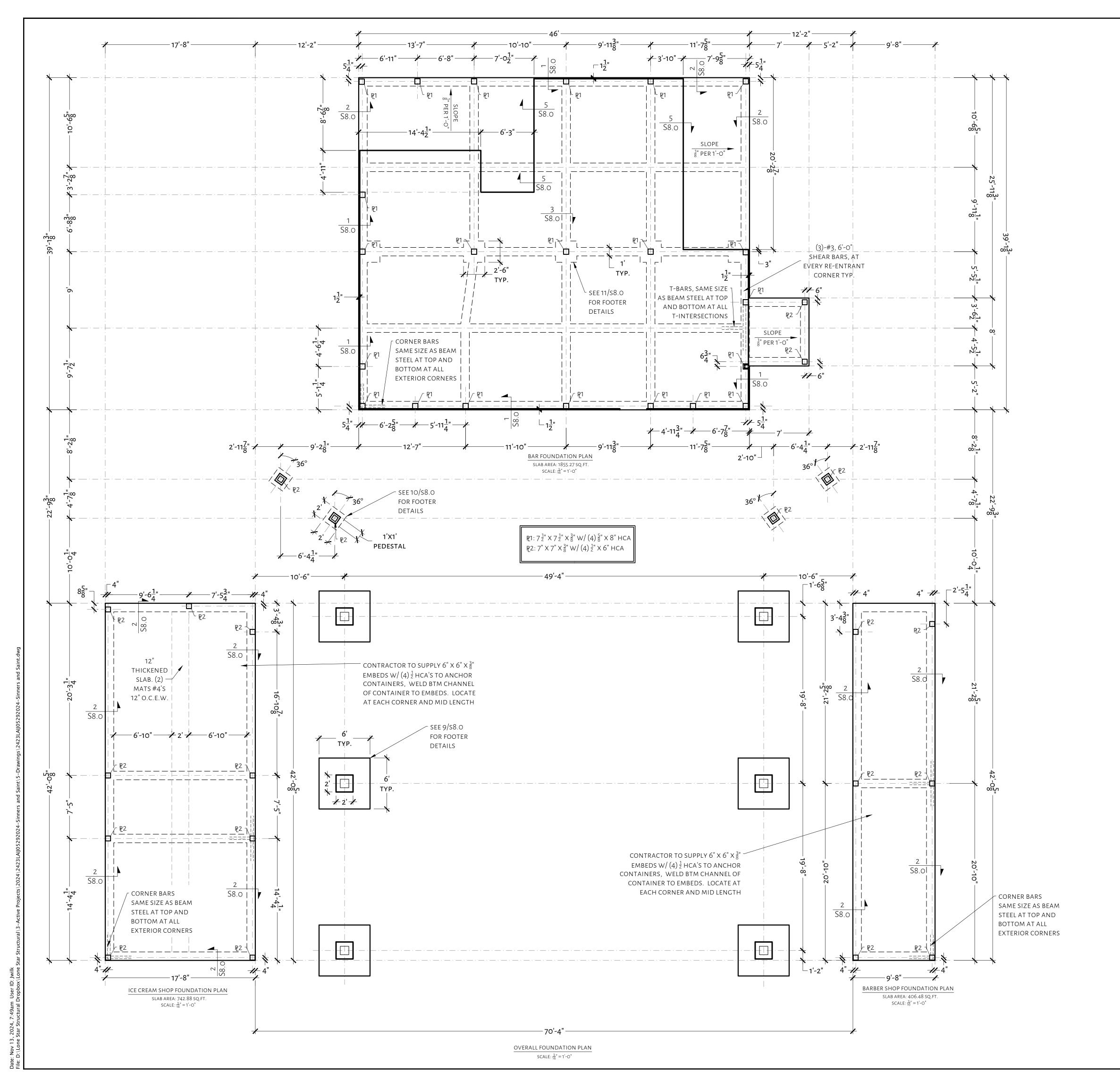
SINNERS AND SAINTS

19186 FM 2252 GARDEN RIDGE, TEXAS 78266



DATE: 15 NOVEMBER 2024 DRAWN: JW | DESIGN: JW STRUCTURAL NOTES

JOB: 2423LAIJ05292024



- 1. THIS DESIGN IS SITE SPECIFIC AND MAY NOT BE USED FOR DIFFERENT SITE LOCATIONS WITHOUT WRITTEN PERMISSION FROM LONE STAR STRUCTURAL, LLC.
- 2. DETAILS PROVIDED ARE FOR INSTALLATION GUIDANCE. ALTERNATE DESIGNS SHALL BE ALLOWED AND APPROVED BY THE
- 3. ALL DIMENSIONS SHALL BE VERIFIED WITH THE ARCHITECTURAL DESIGN. IF A DISCREPANCY EXIST, NOTIFY THE ARCHITECT AND SEOR IN WRITING FOR THE ISSUE TO BE RESOLVED.
- 4. LONE STAR STRUCTURAL RELEASES ALL LIABILITY FOR THE PERFORMANCE OF THE FOUNDATION AND FRAMING DESIGN, IF THE PRE-POUR / FRAMING INSPECTIONS ARE NOT COMPLETED BY LONE STAR STRUCTURAL, LLC OR ANY ALTERATIONS ARE MADE TO THE ORIGINAL PLAN USED FOR DESIGN WHICH ARE NOT REVIEWED AND APPROVED BY LONE STAR STRUCTURAL IN WRITING PRIOR TO COMPLETION.
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- 6. THE CONTRACTOR SHALL VERIFY THE EXISTING SOIL AND COMPARE WITH THE PROVIDED GEOTECHNICAL REPORT. NOTIFY THE GEOTECHNICAL ENGINEER IF THE EXISTING SOIL DOES NOT MATCH THE REPORT.
- 7. ALL LARGE ROCKS ARE REQUIRED TO BE REMOVED FROM THE INTERIOR OF THE FORM WORK TO ENSURE NO
- INTERFERENCES OCCUR WITH THE BEAM STEEL.
- 8. BEAM STEEL SHALL BE INSTALLED AT A CONSISTENT SLOPE, ELEVATION, TO MATCH THE SLAB STEEL. TO THE BEST OF THE CONTRACTORS ABILITY, THE BEAM STEEL SHALL BE PARALLEL WITH THE FINISHED FLOOR ELEVATION, PREVENTING A WAVING EFFECT IN THE REINFORCEMENT BARS.

SILL PLATE ANCHOR SCHEDULE						
ANCHOR	LOCATION	MINIMUM DISTANCE FROM CORNERS	MINIMUM O.C. SPACING	MINIMUM EMBEDMENT		
HILTI QUICK BOLT TZ ZINC PLATED	EXTERIOR WALLS	6"	48"	3"		
HILTI POWDER ACTUATED X-P ZINC PLATED	INTERIOR WALLS	6"	24"	1-1/4"		
CAST IN 1/2" X 8" GALVANIZED J BOLT	EXTERIOR WALLS	6"	48"	4"		

ANCHORS ARE REQUIRED AT ALL PLATE JOINTS, LOCATED BETWEEN 2"-6" FROM THE JOINT.

FOUNDATION DESIGN SCHEDULE								
MINIMUM HEIGHT ABOVE	MINIMUM BEAM	MINIMUM	MINIMUM BEAM DEPTH IN	BEAM BARS	SLAB	MINIMUM SLAB	BEAN	1 STIRRUPS
GRADE	WIDTH	BEAM DEPTH	EXIST. GRADE	T&В	BARS	THICKNESS	BEAM DEPTH	STIRRUP SPACING
	INT: 12"	INT: 32"		TOP: (2) #6	#4@12"		18"-24"	#3 BARS 18" O.C.
EXT: 6"	EXT: 12"	EXT: 32"	EXT: 6"	BTM: (2) #6	0.C.E.W	LIVING :5"	> 24"	#3 BARS 24" O.C.

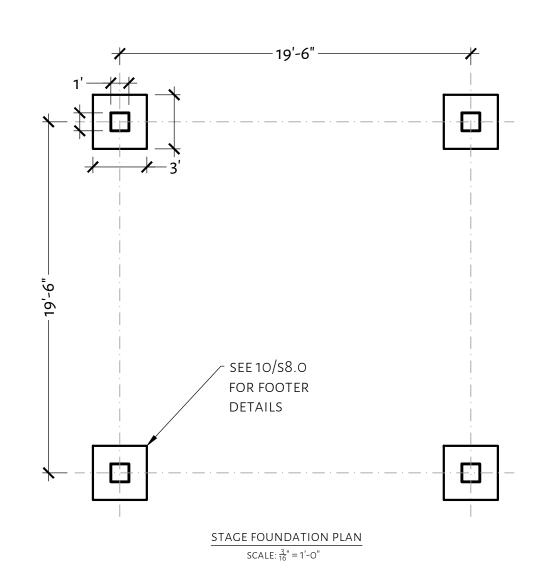
- FOUNDATION FILL AREAS IN EXCESS OF 36" IN DEPTH, ADD 12" PIERS AT ALL INTERIOR BEAM INTERSECTIONS. REINFORCE WITH

(4) #6 bars, and #3 stirrups 10" o.c.

- WHERE THE BEAM DEPTH EXCEEDS 60", A THICKENED SLAB IS REQUIRED. USE A 8" SLAB FOR 5 FT FROM THE PERIMETER

REINFORCED WITH WITH (2) MATS OF #4 BARS 12" O.C. WHERE THE BEAM EXCEEDS 60" IN DEPTH.

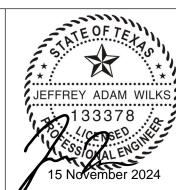
- BEAM STIRRUPS, SHALL NOT BE CUT IF TOO LONG. BEND HOOKS OVER BARS.





## SINNERS AND SAINTS

19186 FM 2252 GARDEN RIDGE, TEXAS 78266



JOB: 2423LAIJO5292024

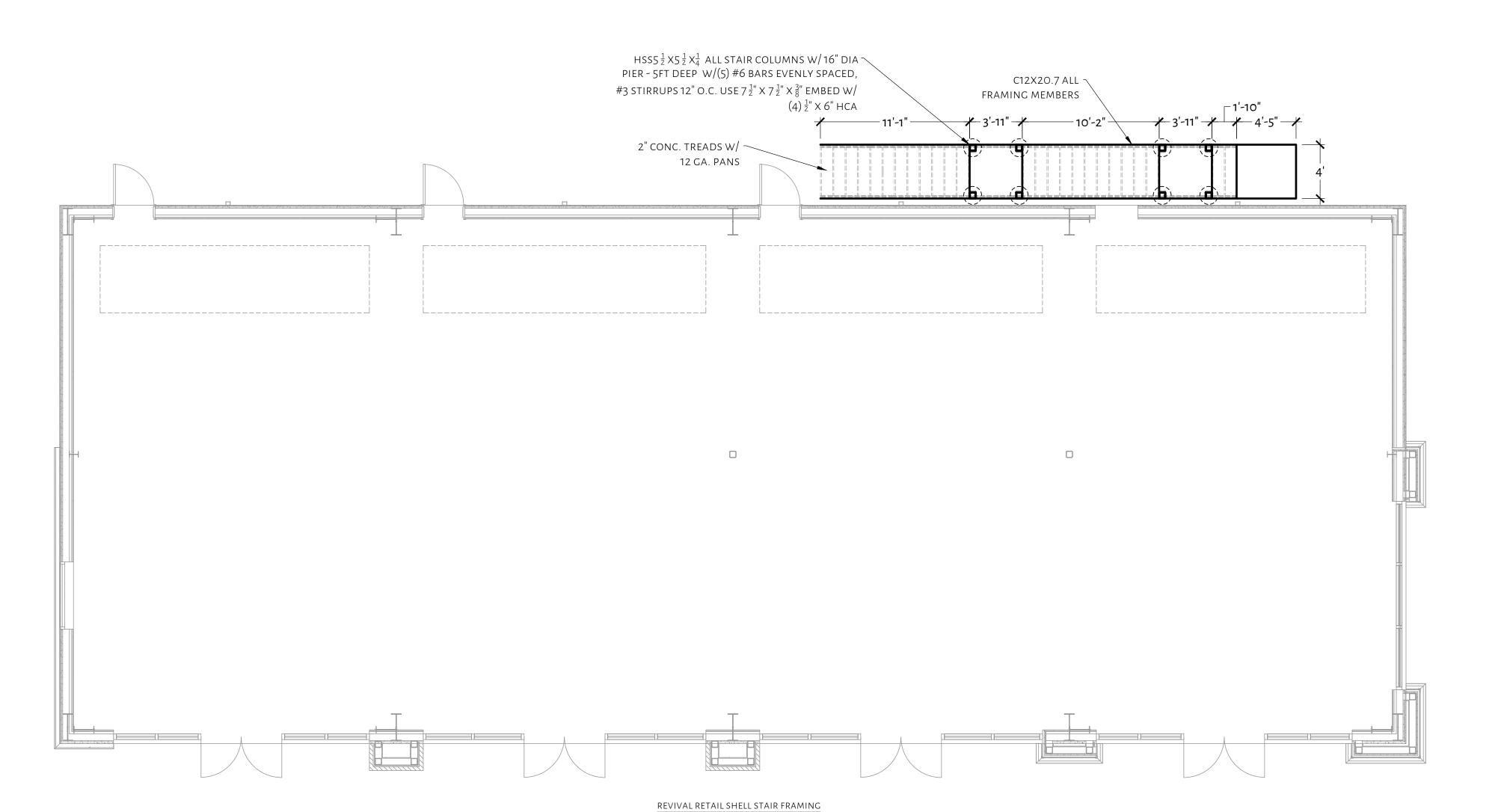
DATE: 15 NOVEMBER 2024

DRAWN: JW DESIGN: JW

OVERALL FOUNDATION PLN

SHEET:

S2.0



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SILL PLATE ANCHOR SCHEDULE						
ANCHOR	LOCATION	MINIMUM DISTANCE FROM CORNERS	MINIMUM O.C. SPACING	MINIMUM EMBEDMENT		
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FXT·6"	EXT: 12"		BTM: (2) #6	#4 @ 12" O.C.E.W	LIVING :5"	> 24"	#3 BARS 24" O.C.	

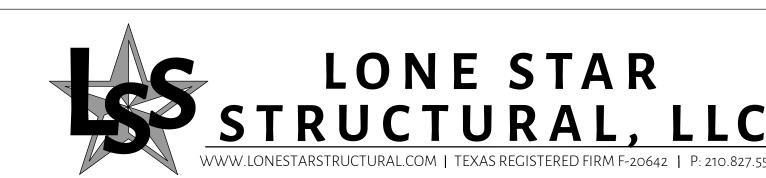
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- BEAM STIRRUPS, SHALL NOT BE CUT IF TOO LONG. BEND HOOKS OVER BARS.



## SINNERS AND SAINTS

19186 FM 2252 GARDEN RIDGE, TEXAS 78266



DATE: 15 NOVEMBER 2024 DRAWN: JW | DESIGN: JW **REVIVAL BUILDING** 

S2.1

 $\frac{\text{OVERALL STEEL FRAMING PLAN}}{\text{SCALE: } \frac{3}{16}" = 1' - 0"}$ 

NOTES

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- NOTIFY THE ARCHITECT AND SEOR IN WRITING FOR THE ISSUE TO BE RESOLVED.

  4. LONE STAR STRUCTURAL RELEASES ALL LIABILITY FOR THE PERFORMANCE OF THE FOUNDATION AND FRAMING DESIGN, IF THE PRE-POUR / FRAMING INSPECTIONS ARE NOT COMPLETED BY LONE STAR
- 5. THE STRUCTURAL SYSTEM FOR THIS PROJECT SHALL NOT BE CONSTRUCTED BY USING THE STRUCTURAL DRAWINGS ALONE. THESE DRAWINGS WERE DEVELOPED FROM DATA DERIVED PRIMARILY FROM THE ARCHITECTURAL DRAWINGS AND SECONDARILY FROM MEP, CIVIL AND OTHER DISCIPLINES. IT IS INTENDED THAT CONSTRUCTION PROCEED BY UTILIZING ALL OF THE INFORMATION CONTAINED IN THE ENTIRE SET OF CONSTRUCTION DOCUMENTS TAKEN AS A WHOLE; FAILURE TO DO SO WILL RESULT IN

STRUCTURAL, LLC OR ANY ALTERATIONS ARE MADE TO THE ORIGINAL PLAN USED FOR DESIGN WHICH

ARE NOT REVIEWED AND APPROVED BY LONE STAR STRUCTURAL IN WRITING PRIOR TO COMPLETION.

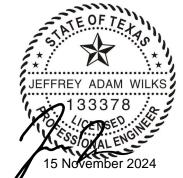
- ERRORS WHICH SHALL BE CORRECTED AT THE CONTRACTORS EXPENSE.

  6. BUILDER/ CONTRACTOR SHALL VERIFY BASE PLATE DIRECTION PRIOR TO SETTING.
- 7. ALL BASE PLATES, SHALL BE TAPPED DOWN WITH A HAMMER OR LIGHTLY VIBRATED TO REDUCE VOIDS BELOW THE BASE PLATE, ALL PLATES SHALL BE SET FLUSH WITH THE FINISHED ELEVATION.
- 8. ALL WELDS SHALL BE FULL PENETRATING WELDS. BEVEL ALL EDGES PRIOR TO WELDING.
- 9. ALL CONNECTIONS SHALL BE CONSIDERED MOMENT CONNECTIONS UNLESS OTHERWISE NOTED.
- 10. UNLESS NOTED, ALL STEEL MEMBERS SHALL BE FULLY WELDED WITH  $\frac{3}{16}$ " FULL PENETRATING WELD, ALL



## SINNERS AND SAINTS

19186 FM 2252 GARDEN RIDGE, TEXAS 78266



JOB: 2423LAIJO5292024

DATE: 15 NOVEMBER 2024

DRAWN: JW DESIGN: JW

OVERALL STEEL FRAMING

SHEET:

S3.0

<u>NOTE:</u> SEE S8.1 FOR COLD FORMED DETAILS

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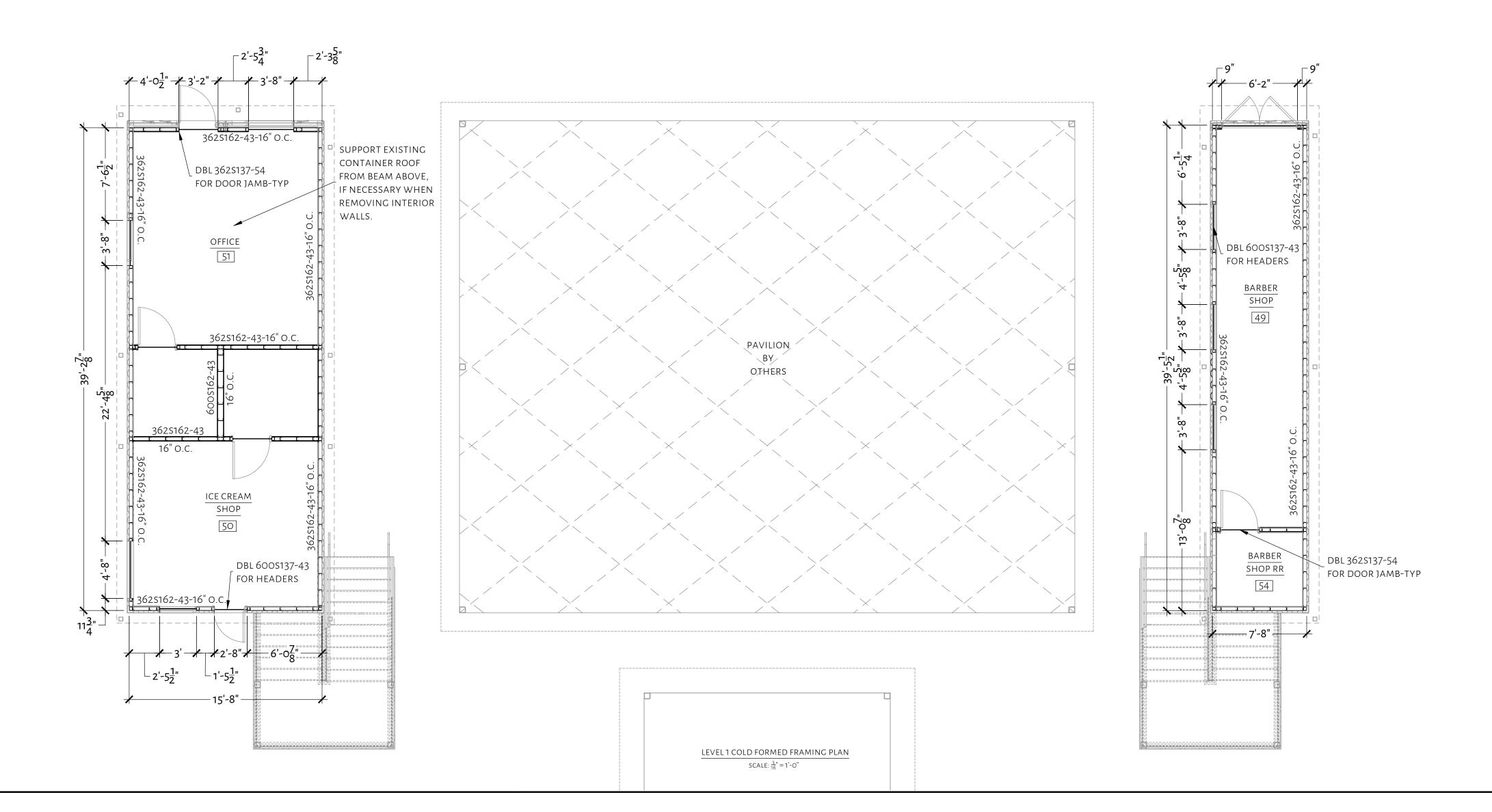
6. BUILDER/ CONTRACTOR SHALL VERIFY ALL UNSUPPORTED SPANS SHOWN. IF THE SPAN EXCEEDS SPANS SHOWN GREATER THAN 4" CONTACT ENGINEER.

7. SIZES IN HEADER SCHEDULE SHOWN ARE MINIMUMS, FOR CONTRACTIBILITY THE CONTRACTOR CAN INCREASE BEAM DEPTHS AND PLIES.

8. DIMENSIONS SHOWN, ARE NOT ROUGH OPENING SIZES. CONTRACTOR SHALL COMPARE WITH WINDOW AND DOOR SCHEDULE PROVIDED BY OTHERS, AND ADJUST AS NECESSARY.

9. ALL EXTERIOR WALLS, SHALL HAVE BLOCKING AT MID HEIGHT.

10. ALL TRACKS SHALL BE SECURED TO STEEL FRAMING A MINIMUM 24" O.C.



- 20'-6" -

600S162-43-16" O.C.

PONY WALL REQ.

PLATE: 8'-0" & 9'-0",

STORAGE

362S162-43-16" O.C.

WALK IN COOLER of

362S162-43-16" O.C. PONY WALL REQ. PLATE:

8'-0" & 9'-0"

2'-8"

**BAR SERVICE** 

JAMB FOR OH DOORS

\_\_ DBL 600S200-97

EACH SIDE. TYP.

T 7/16" ZIP
BOARD ALL

600\$162-43-16" O.C.

PONY WALL REQ. PLATE:

MENS RR

362S162-43-16" O.C. -8'-0" PLATE

362S162-43-16" O.C. -8'-0" PLATE

BAR SEATING

58

600S162-43-16" O.C.

9'-0" PLATE

— <u>7</u>" ZIP

**BOARD ALL** 

SIDES TYP.

**WOMENS RR** 

- 52'-10<u>1</u>" -

₩ 8'-0" & 9'-0"

600S162-43-16" O.C.

PONY WALL REQ. PLATE:

8'-0" & 9'-0"

`\_\_\_\_\_

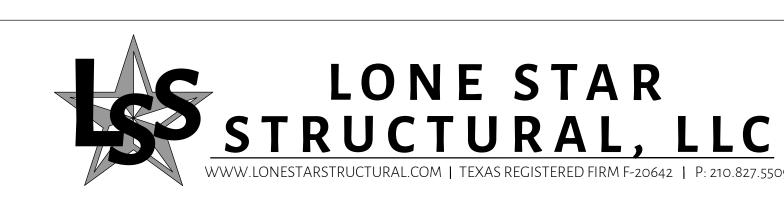
600s162-43

3'-2"

PONY WALL REQ. PLATE:

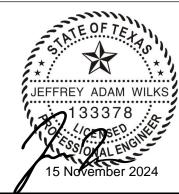
8'-0" & 9'-0" 16" O.C.

SIDES TYP.



## SINNERS AND SAINTS

19186 FM 2252 GARDEN RIDGE, TEXAS 78266



JOB: 2423LAIJO5292024

DATE: 15 NOVEMBER 2024

DRAWN: JW DESIGN: JW

OVERALL LIGHT GAUGE FRAMIN

SHEFT:

\$4.0

SEE S8.1 FOR COLD FORMED DETAILS

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- 9. ALL EXTERIOR WALLS, SHALL HAVE BLOCKING AT MID HEIGHT.
- 10. ALL TRACKS SHALL BE SECURED TO STEEL FRAMING A MINIMUM 24" O.C.

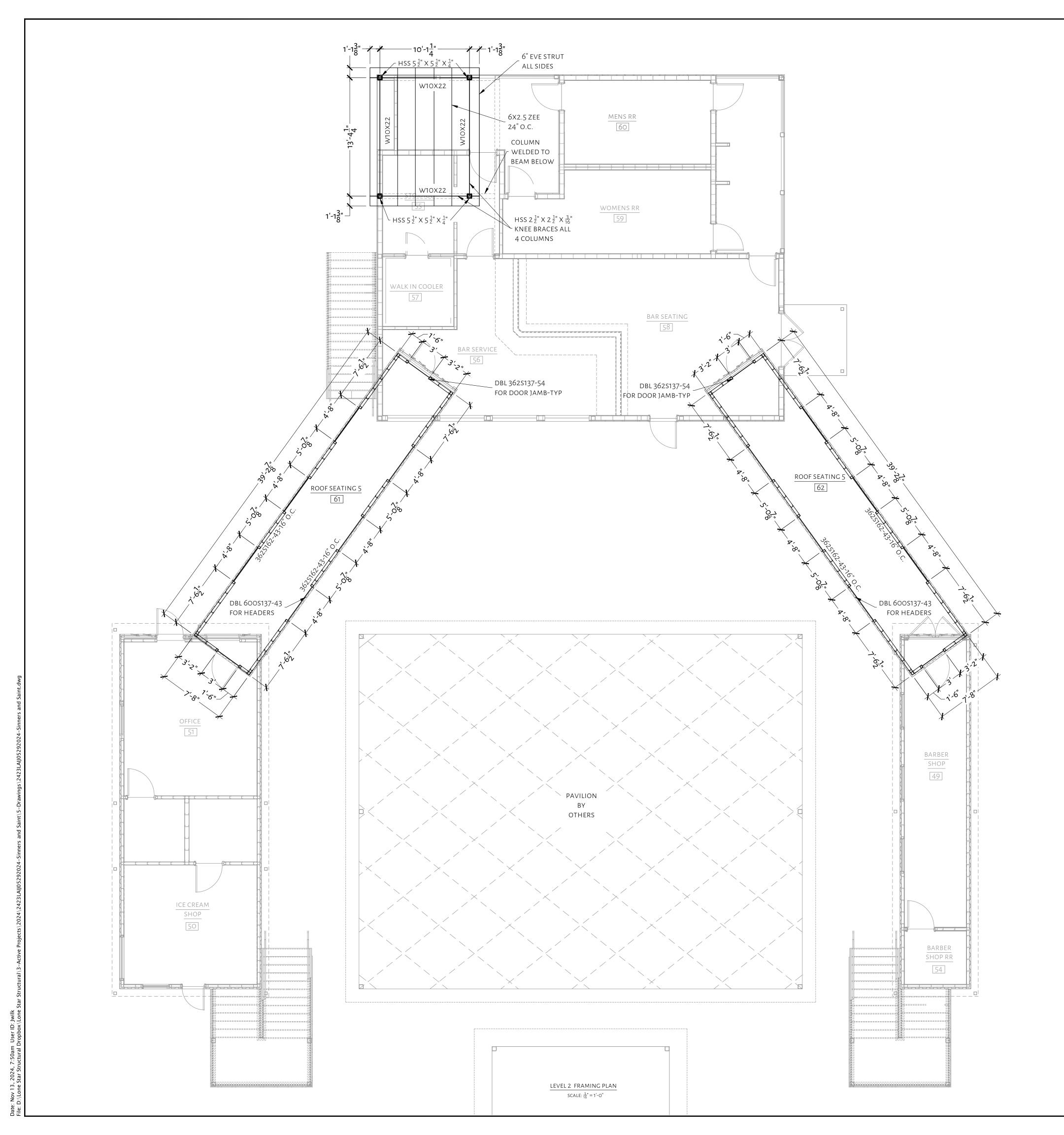


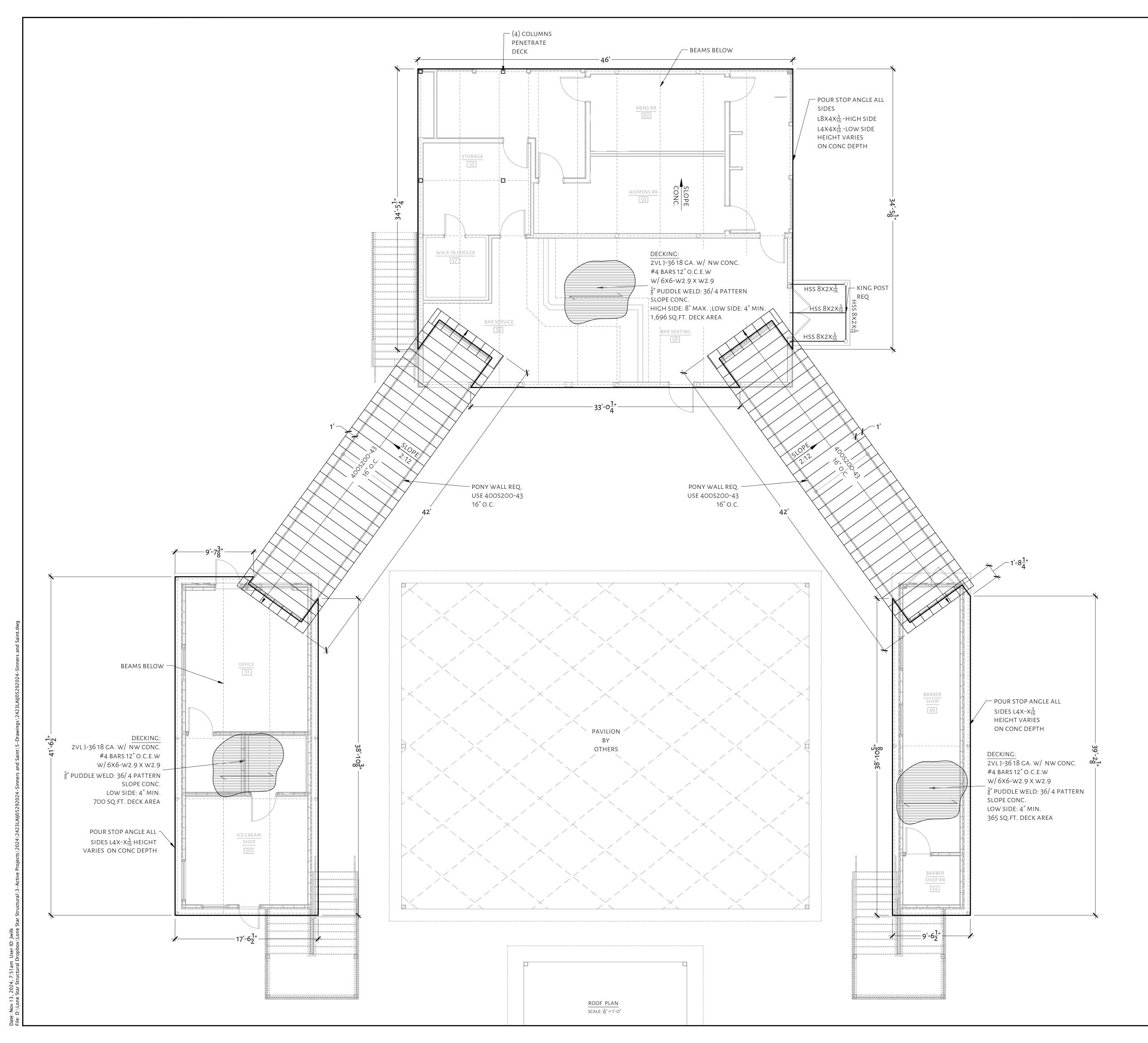
## SINNERS AND SAINTS

19186 FM 2252 GARDEN RIDGE, TEXAS 78266



DRAWN: JW DESIGN: JW LVL 2 LIGHT GAUGE FRAMING **S4.1** 



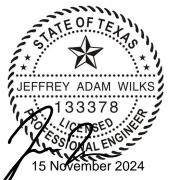


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- 2. DETAILS PROVIDED ARE FOR INSTALLATION GUIDANCE. ALTERNATE DESIGNS SHALL BE ALLOWED AND
- APPROVED BY THE SEOR.
- ALL DIMENSIONS SHALL BE VERIFIED WITH THE ARCHITECTURAL DESIGN. IF A DISCREPANCY EXIST, NOTIFY THE ARCHITECT AND SEOR IN WRITING FOR THE ISSUE TO BE RESOLVED.
- LONE STAR STRUCTURAL RELEASES ALL LIABILITY FOR THE PERFORMANCE OF THE FOUNDATION AND FRAMING DESIGN, IF THE PRE-POUR / FRAMING INSPECTIONS ARE NOT COMPLETED BY LONE STAR STRUCTURAL, LLC OR ANY ALTERATIONS ARE MADE TO THE ORIGINAL PLAN USED FOR DESIGN WHICH ARE NOT REVIEWED AND APPROVED BY LONE STAR STRUCTURAL IN WRITING PRIOR TO COMPLETION.
- THE STRUCTURAL SYSTEM FOR THIS PROJECT SHALL NOT BE CONSTRUCTED BY USING THE STRUCTURAL DRAWINGS ALONE. THESE DRAWINGS WERE DEVELOPED FROM DATA DERIVED PRIMARILY FROM THE ARCHITECTURAL DRAWINGS AND SECONDARILY FROM MEP, CIVIL AND OTHER DISCIPLINES . IT IS INTENDED THAT CONSTRUCTION PROCEED BY UTILIZING ALL OF THE INFORMATION CONTAINED IN THE ENTIRE SET OF CONSTRUCTION DOCUMENTS TAKEN AS A WHOLE; FAILURE TO DO SO WILL RESULT IN ERRORS WHICH SHALL BE CORRECTED AT THE CONTRACTORS EXPENSE.
- BUILDER/CONTRACTOR SHALL VERIFY ALL UNSUPPORTED SPANS SHOWN. IF THE SPAN EXCEEDS SPANS SHOWN GREATER THAN 4" CONTACT ENGINEER.
- SIZES IN HEADER SCHEDULE SHOWN ARE MINIMUMS, FOR CONTRACTIBILITY THE CONTRACTOR CAN INCREASE BEAM DEPTHS AND PLIES.
- CONTRACTOR SHALL INSTALL THE DECKING ACCORDING TO THE MANUFACTURERS SPECIFICATIONS.
- VERIFY ALL UNSHORED SPANS, AND FOLLOW ALL NECESSARY SHORING RECOMMENDATIONS AS PROVIDED BY THE MANUFACTURER.



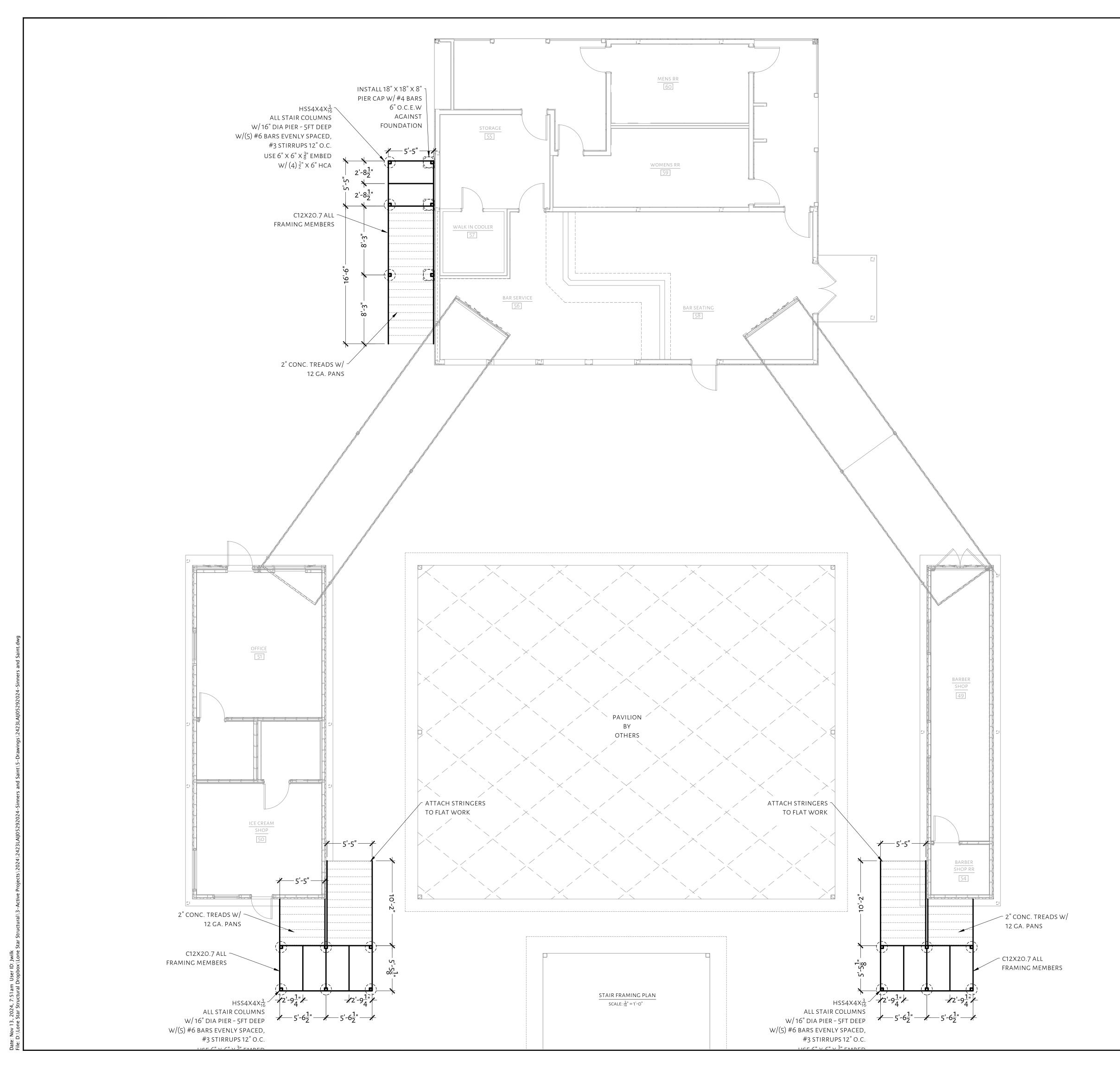
## SINNERS AND SAINTS

19186 FM 2252 GARDEN RIDGE, TEXAS 78266



DATE: 15 NOVEMBER 2024 DRAWN: JW DESIGN: JW OVERALL ROOF PLAN

\$5.0



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WELDED MIRE MESH.

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- 7. SIZES IN HEADER SCHEDULE SHOWN ARE MINIMUMS, FOR CONTRACTIBILITY THE CONTRACTOR CAN INCREASE BEAM DEPTHS AND PLIES.
- 8. CONTRACTOR SHALL INSTALL THE DECKING ACCORDING TO THE MANUFACTURERS SPECIFICATIONS.
- VERIFY ALL UNSHORED SPANS, AND FOLLOW ALL NECESSARY SHORING RECOMMENDATIONS AS PROVIDED BY THE MANUFACTURER.
- 10. UNLESS NOTED, ALL STEEL MEMBERS SHALL BE COPED, AND FULLY WELDED WITH  $\frac{3}{16}$ " FULL PENETRATING
- WELDS ALL SIDES.

  11. STAIR TREADS AND LANDINGS SHALL BE 2" 3,000 PSI CONCRETE FORMED WITH 12 GA. BENT PANS. CONC. PANS SHALL BE FASTENED WITH L2"X2" X 16" CLIPS FULLY WELDED TO STRINGERS. REINFORCE WITH



# SINNERS AND SAINTS

19186 FM 2252 GARDEN RIDGE, TEXAS 78266



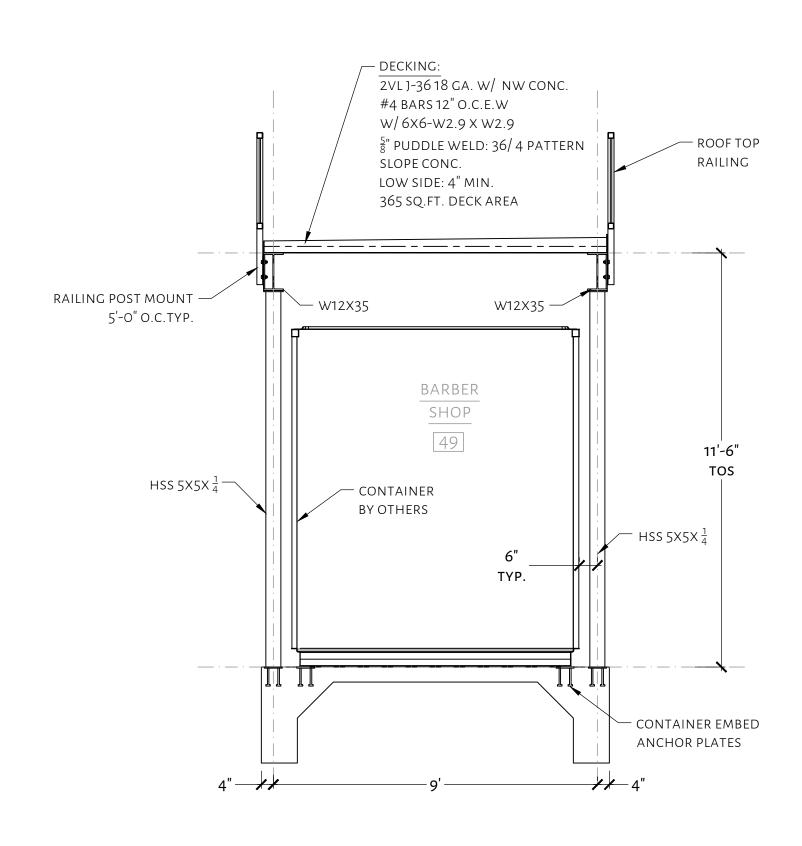
JOB: 2423LAIJO5292024

DATE: 15 NOVEMBER 2024

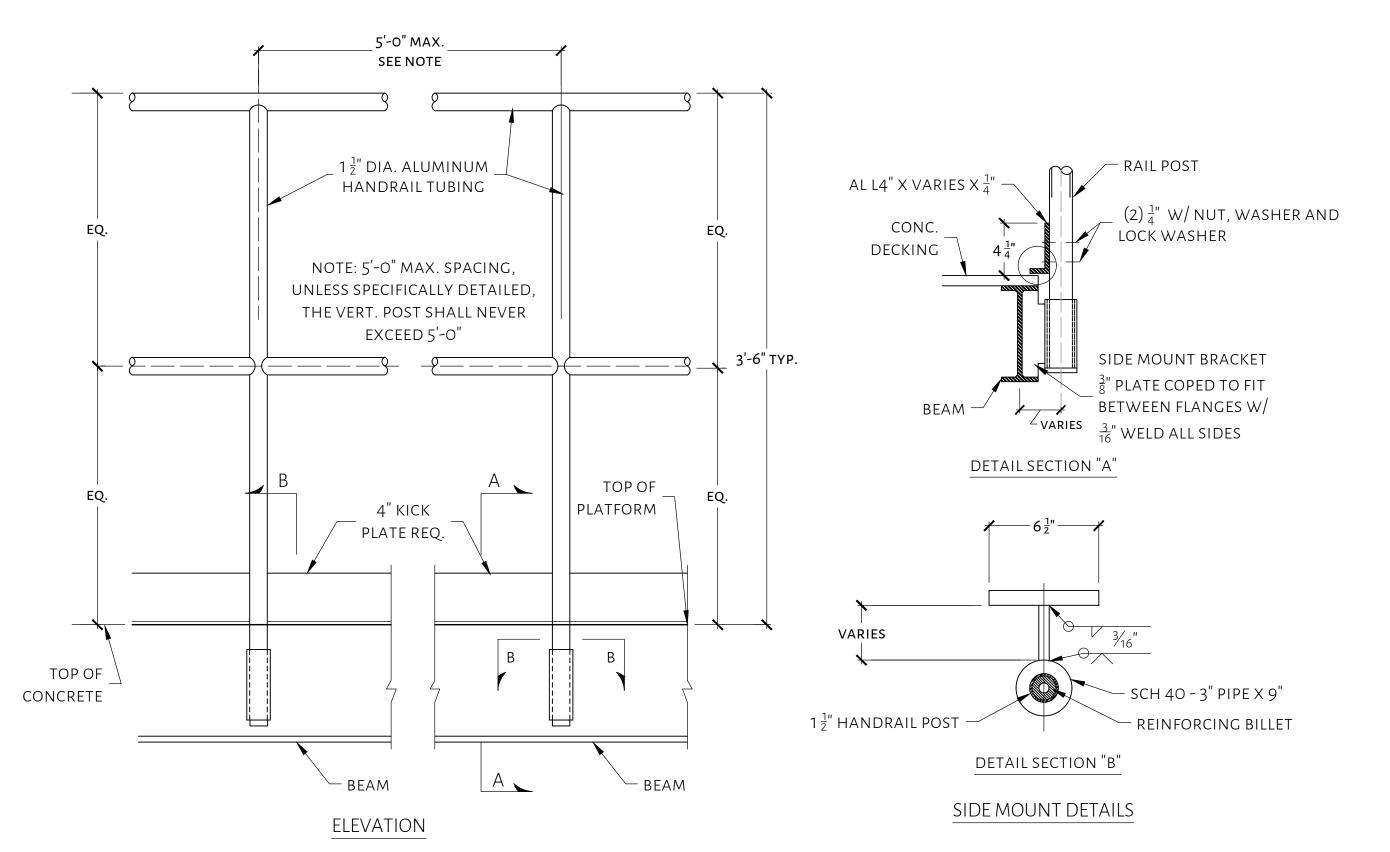
DRAWN: JW DESIGN: JW

STAIR FRAMING

S6.0



 $\frac{\text{BARBER SHOP}}{\text{SCALE: } \frac{3}{8}" = 1' - 0"}$ 



MICS. NOTE:

1. WHERE ALUMINUM OR ALLOY SURFACES, FITTINGS OR EXTRUSIONS

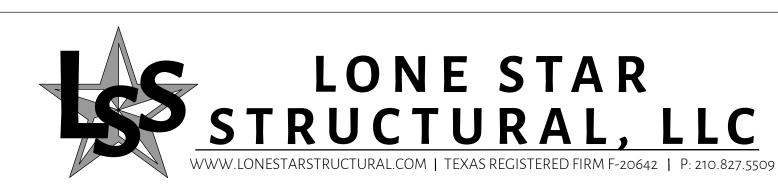
ARE TO BE IN CONTACT WITH DISSIMILAR METALS, GROUT, CONCRETE,

MASONRY, OR WOOD, COAT ALUMINUM AND/ OR ALLOY WITH A

HEAVY COAT OF BITUMINOUS PAINT OR INSTALL AN APPROVED NON
ABSORPTIVE PAD TO PREVENT CONTACT.

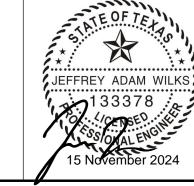
#### NOTES

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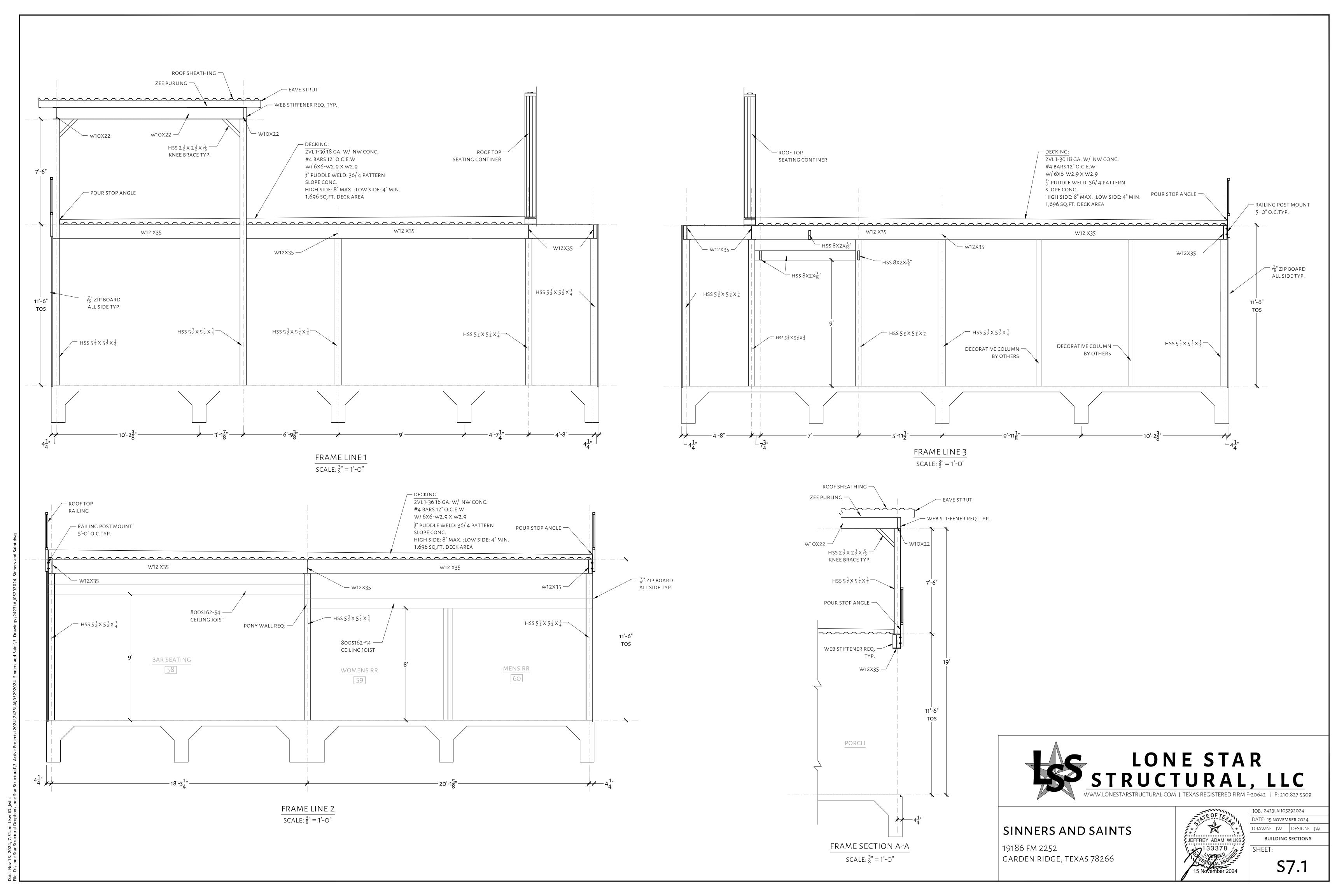
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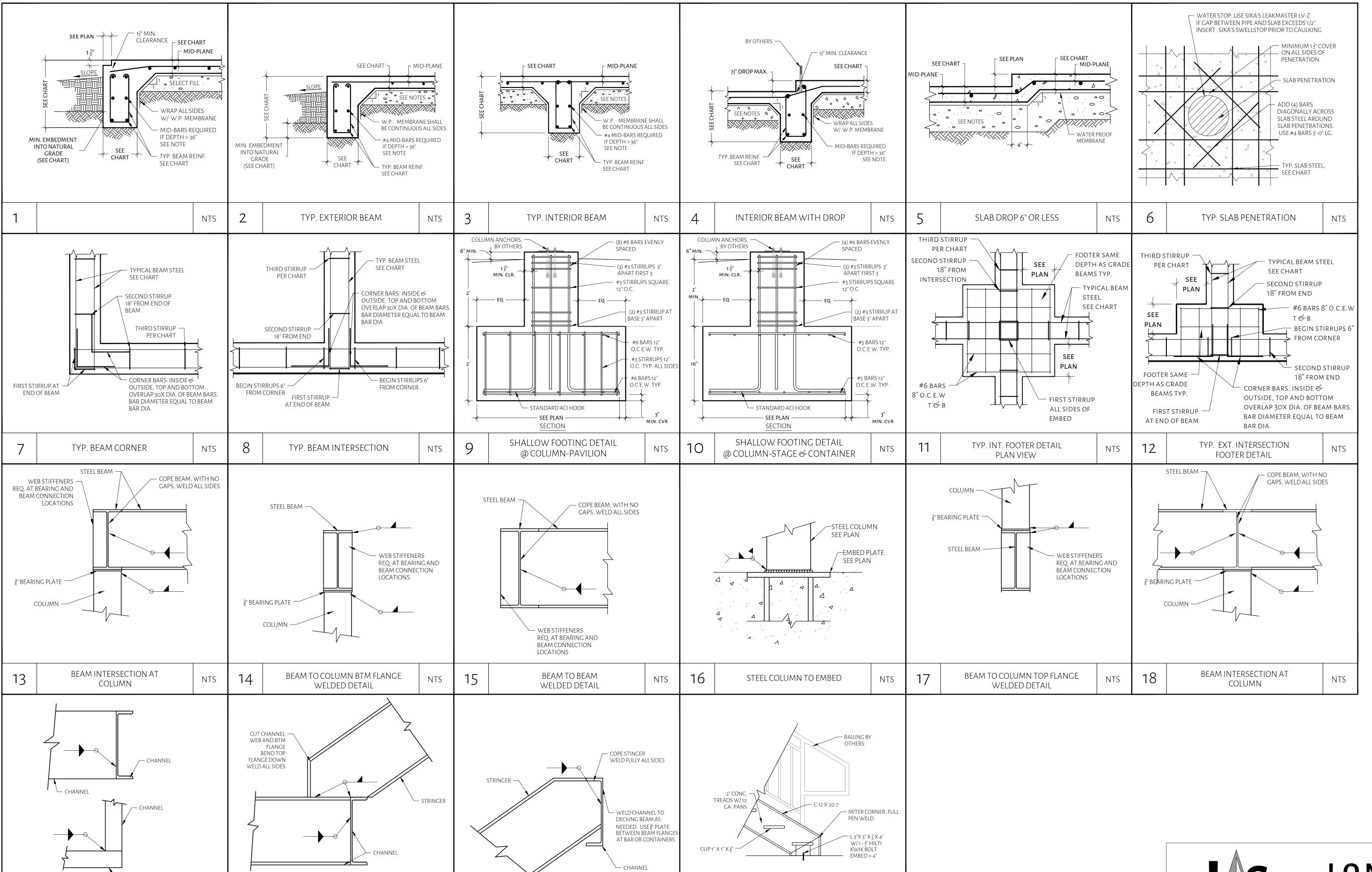
DRAWN: JW DESIGN: JW

RAILING AND SECTIONS

SHEET:

S7.0





CHANNEL TO STRINGER

UPPER MOUNT DETAIL

21

NTS

CHANNEL TO CHANNEL

STAIR DETAIL

19

CHANNEL TO STRINGER

LOWER STAIR DETAIL

20

NTS

STAIR FRAMING BOTTOM

CONNECTION

NTS

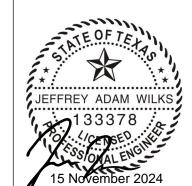
22

NTS



## SINNERS AND SAINTS

19186 FM 2252 GARDEN RIDGE, TEXAS 78266



JOB: 2423LAIJO5292024

DATE: 15 NOVEMBER 2024

DRAWN: JW DESIGN: JW

STRUCTURAL DETAILS

SHEET:

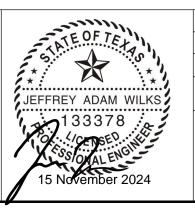
SOLUTION

SHEET:



# SINNERS AND SAINTS

19186 FM 2252 GARDEN RIDGE, TEXAS 78266



DATE: 15 NOVEMBER 2024 DRAWN: JW DESIGN: JW STRUCTURAL DETAILS SHEET: S8.1