Ramp Framing Plan

0 8' 16'

Ramp Foundation Plan

0 8' 16'

THE STRUCTURAL DOCUMENTS REPRESENT THE FINISHED STRUCTURE. TOTAL PROJECT DEFINITION (AND THEREFORE THE DEFINITION OF ALL REQUIREMENTS) WILL BE PROVIDED BY COMBINING ALL DOCUMENTS WITH THE STRUCTURAL DOCUMENTS. THE CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS WHICH WILL AFFECT THE FABRICATION OF COMPONENTS FOR NEW CONSTRUCTION PRIOR TO THE START OF CONSTRUCTION. UNLESS OTHERWISE INDICATED THE DOCUMENTS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PROTECT THE SAFETY OF THE PUBLIC ALONG WITH THE SAFETY OF THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT NOT BE LIMITED TO BRACING AND SHORING OF DEAD LOADS, CONSTRUCTION LOADS AND WIND LOADS. THE CONTRACTOR WILL BE REQUIRED TO CORRECT AT HIS OWN EXPENSE ANY SUBSIDENCE, STRUCTURAL DAMAGE OR OTHER OBJECTIONABLE CONDITIONS CAUSED BY HIS OPERATIONS.

REVISION	DESCRIPTION	DATE
SSI #1	Ramp Connection	01.27.2025

PRELIMINARY REVIEW DOCUMENT
AXIS STRUCTURAL, LLC
FIRM # F-17115
THOMAS BARRATACHEA, PE
126609
NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES

1045 CENTRAL PARKWAY N., SUITE 101
SAN ANTONIO, TEXAS 78232
PHONE: (210) 824-2908
FIRM NO. F-17115
AXISSTRUCTURAL.COM

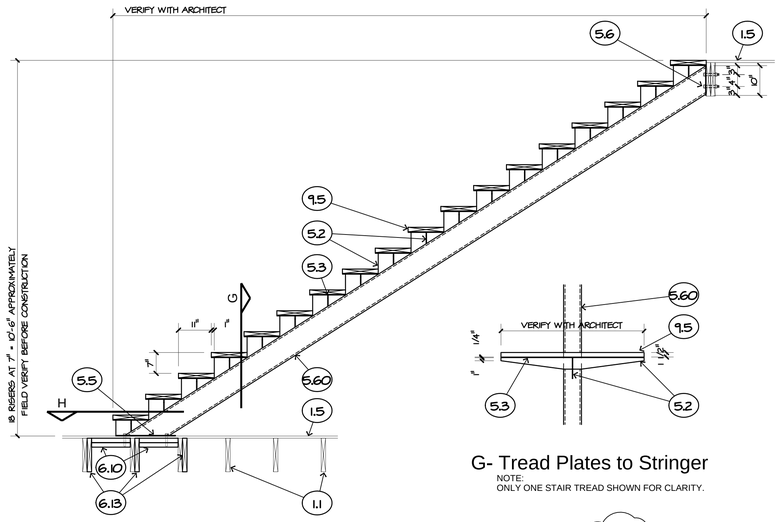
AXIS STRUCTURAL

LK DESIGN GROUP, INC.
16010 VIA SHAVANO
SAN ANTONIO, TEXAS 78249

Ramp Foundation & Framing Plans

DR. GARCIA OFFICE RENOVATION
1303 S. MAIN AVENUE
SAN ANTONIO, TEXAS 78204

SCALE:	AS INDICATED
PROJECT NO:	24399-0
DATE:	12.11.2024
SHEET NO:	S1.2



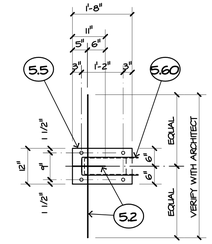
F- Stair Stringer to Existing Floor

NOTE:
DETAIL SHOWN FOR ILLUSTRATION PURPOSES ONLY.
FIELD VERIFY ALL DIMENSIONS.

FLOOR ELEVATIONS SHALL BE FIELD VERIFIED
BEFORE CONSTRUCTION.

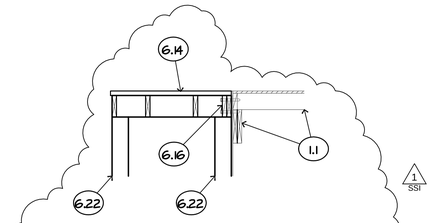
G- Tread Plates to Stringer

NOTE:
ONLY ONE STAIR TREAD SHOWN FOR CLARITY.



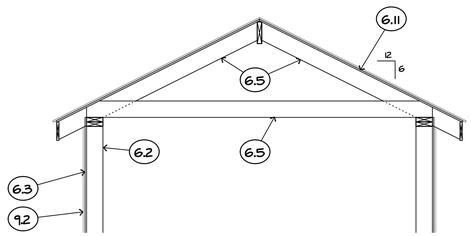
H- Stringer to Base Plate

NOTE:
TREAD PLATE NOT SHOWN FOR CLARITY.

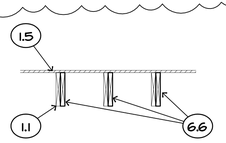


K- Ramp Connection at Existing Porch

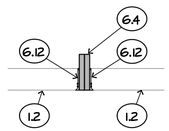
NOTE:
- ALL EXISTING FRAMING SHALL BE FIELD VERIFIED BEFORE CONSTRUCTION.



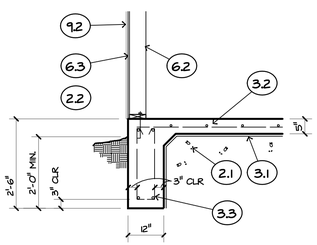
C- Framing at Mechanical Room



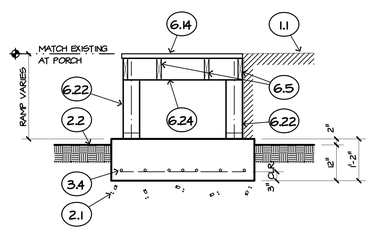
D- Reinforcing at Existing Joists



E- Header to Existing Joists



A- Wall to Foundation



B- Ramp at Existing Porch

Typical Structural Sections

0 2' 4'

Keynotes:

1.1) Existing 2x floor joist/beam framing to remain.

1.2) Existing 2x roof/ceiling framing to remain.

1.5) Existing plywood floor/roof deck to remain.

2.1) Select structural compacted fill.

2.2) Final drainage of surface water from under floor and landscaped areas shall be constructed in a manner as to direct water shed away from the foundation.

3.1) 15 mil thick polyolefin vapor barrier, type recommended to be in contact with the soil or fill under a concrete slab, listed in ASTM 1745 Class A with a permeance less than 0.01 before and after mandatory conditioning test per ASTM E1745 Section 7 (7.1.1-7.1.5) as determined by ASTM E96 or F1249. Polyethylene is not acceptable. Install vapor barrier solidly within and below slab surface with joints lapped at least 6 inches and taped continuously with recommended pressure-sensitive tape. Extend vapor barrier down the sides of the beam trenches and terminate so that it does not extend across the trench bottom. Contractor and Architect (not structural engineer) shall verify with manufacturer's representative that vapor barrier selected is installed in accordance with ASTM E1643-18a. Acceptable manufacturers include Stego, Reef Industries, and Fortifiber only with no alternative submittals permitted.

3.2) #4 at 16 inches on center each way, located within the upper 1/3 of concrete slab thickness, but below sawcut. Extend slab reinforcing to top / outside perimeter beam bar. Start slab steel spacing not more than 6 inches from top inside beam bar. Add 3-#4 diagonal bars x 4' long above typical slab reinforcing at all slab interior corners. Add #4 "Z" bars at 12 inches on center where slab steps down greater than 3 inches.

3.3) 2- #6 continuous beam reinforcing bars top and bottom with #3 stirrups at 18" on center. Start stirrup spacing at ends of horizontal beam bars. Lap #6 "Z" bars to horizontal bars where beam steps down greater than 3". Lap 2- #6 corner bars top and 2- #6 corner bars bottom to horizontal beam bars at all beam corners and dead end beam intersections. For beams with depth exceeding 3'-0", add #4 continuous mid-height horizontal bars at each beam face at 12" on center.

3.4) Footing reinforcing shall be #6 bars at 8" on center both ways 3" clear from bottom of footing.

5.2) 1/4" steel bracing plates welded to stair spine and tread plate - verify dimensions.

5.3) 1/4" steel tread plate welded to stringer and bracing plates. Tread plate to have the same dimensional size at wood stair tread. Verify dimensions.

5.5) 12" x 1'-8" x 1/4" thick steel stringer base plate welded to stringer and attached to floor framing with 4- 5/8" diameter lag bolts. Lag bolts to penetrate new 2x double blocking (keynote 6.10). Verify length.

5.6) 12" x 10" x 1/4" thick steel plate welded to stringer and attached to existing floor beam with 4- 3/4" diameter through bolts.

5.60) HSS 8" x 6" x 1/4" stair stringer miter cut and shop welded.

6.2) Wood stud walls shall be framed with 2x6 at 16" on center.

Install double and/or triple studs at all beam bearing points. In addition, studs shall be doubled at all angles, corners, and around all openings. Not less than 3 studs shall be installed at each wall corner. Block between corner studs and nail along full height of stud with 16d nails at least at 24" on center.

Provide a continuous sole plate at the bottom of all stud walls. Wall sole plates shall be wolmanized. Place anchors at a maximum of 32" on center spacing unless otherwise noted and within 12" from ends of discontinuous plates. Toenail each stud to sole plate with at least 4- 8d nails or end nail with at least 2- 6d nails. Face nail sole plates in upper level walls with 16d nails at least at 16" on center.

Provide a continuous double plate at the top of all wall studs. End joints in double top plates shall be offset at least 48 inches. Corner joints in double top plates shall be lapped and face nailed with at least 2- 16d nails. End nail top plate to each stud with at least 2- 16d nails. Face nail top plates with 16d nails at least at 16" on center.

6.3) Plywood wall sheathing shall be 7/16" APA rated sheathing, exposure 1.

Attachment shall be with 10d nails spaced at 6 inches on center at edges and 12 inches on center at intermediate supports.

Staples shall NOT be used in place of nails.

6.4) Header - see plan.

At headers less than 4 feet wide, provide a single cripple stud below each end of header nailed to a single full height stud. Toenail header at each end on each side to studs with 1- 16d nail per 2" nominal depth of header.

At headers 4 feet wide and wider, provide double cripple studs below each end of header nailed to double full height studs. Toenail header at each end on each side to studs with 1- 16d nail per 2" nominal depth of header.

6.5) 2x wood joist - see plan.

Joists shall be installed upright (crowns up) and held in a straight line. Joists shall be full bearing over entire plate width. Toenail joist to each support with at least 3- 8d nails. Provide solid full depth blocking in all conventionally framed spans over 8'-0". Maximum distance between blocking and bearing shall be 8'-0". Provide solid blocking at all supports.

Bored holes required in joists shall be limited to 1/5 the joist depth and shall be no closer than 2" from the top or bottom of the joist or no closer than 24" from a support.

6.6) 3- 2x12 reinforcing member nailed to each existing floor joist at each dental chair location. Reinforcing to be full length (no splices allowed) and have full bearing over existing wall plates.

6.10) Double 2x12 blocking as shown in detail. Toenail with at least 4- 10d nails at each end.

6.11) Plywood Roof Deck shall be 7/16" APA rated deck, 48/24 Exposure 1.

Place plywood roof sheathing with required joint spaces between sheets and with end joints staggered. Plywood grain shall be perpendicular to framing. Secure sheets over firm bearing. Provide solid blocking at all plywood edges. Provide plywood sheathing clips (referred to as H clips or PSC clips) at unsupported plywood roof edges, spaced one between each support. Provide edge blocking at all roof openings. Nail to framing members at plywood edges at 6" on center and at intermediate supports at 12" on center. Nail with at least 8d common nails.

6.12) Simpson Strong-Tie LU6 joist hangers. Install as recommended by manufacturer.

6.13) 2x12 reinforcing members as shown in detail nailed to each existing floor joist. Reinforcing to be full length (no splices allowed) and have full bearing over existing wall plates.

6.14) Wolmanized 2 x 6 ramp deck.

6.16) 2x6 wood continuous blocking at ramp to existing connection. Attach to existing porch framing with 2- 5/8" diameter x 6" long lag bolts spaced at 12" on center along length of landing.

6.22) Wood column - see plan.

6.24) Wood beam - see plan. Connect to column with Simpson beam post connector.

9.2) Exterior finish - refer to architectural.

9.5) Wood stair tread - refer to architectural.

THE STRUCTURAL DOCUMENTS REPRESENT THE FINISHED STRUCTURE. TOTAL PROJECT DEFINITION (AND THEREFORE THE DEFINITION OF ALL REQUIREMENTS) WILL BE PROVIDED BY COMBINING ALL DOCUMENTS WITH THE STRUCTURAL DOCUMENTS. THE CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS WHICH WILL AFFECT THE FABRICATION OF COMPONENTS FOR NEW CONSTRUCTION PRIOR TO THE START OF CONSTRUCTION. UNLESS OTHERWISE INDICATED THE DOCUMENTS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PROTECT THE SAFETY OF THE PUBLIC ALONG WITH THE SAFETY OF THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT NOT BE LIMITED TO BRACING AND SHORING OF DEAD LOADS, CONSTRUCTION LOADS AND WIND LOADS. THE CONTRACTOR WILL BE REQUIRED TO CORRECT AT HIS OWN EXPENSE ANY SUBSIDENCE, STRUCTURAL DAMAGE OR OTHER OBJECTIONABLE CONDITIONS CAUSED BY HIS OPERATIONS.

REVISION	DESCRIPTION	DATE
SSI #1	Ramp Connection	01.27.2025

PRELIMINARY REVIEW DOCUMENT
AXIS STRUCTURAL, LLC
FIRM # F-17115
THOMAS BARRATACHEA, PE
126609
NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES

1045 CENTRAL PARKWAY N., SUITE 101
SAN ANTONIO, TEXAS 78232
PHONE: (210) 824-2908
FIRM NO. F-17115
AXISSTRUCTURAL.COM

AXIS STRUCTURAL

LK DESIGN GROUP, INC.
16010 VIA SHAVANO
SAN ANTONIO, TEXAS 78249

Typical Structural Sections

DR. GARCIA OFFICE RENOVATION
1303 S. MAIN AVENUE
SAN ANTONIO, TEXAS 78204

SCALE:	AS INDICATED
PROJECT NO:	24399-0
DATE:	12.11.2024
SHEET NO:	S2.1