

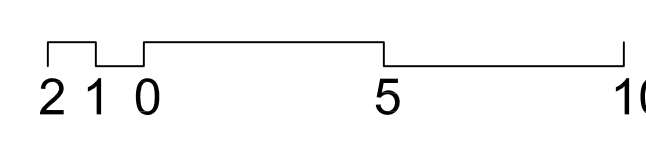
MAIN FLOOR PLAN

SCALE: 1/4" = 1'-0"
 5,745 SF // 10,232 SF TOTAL CONDITIONED // 912 GARAGE

- GENERAL NOTES:**
- SEE ELEVATIONS, SECTIONS AND ROOF PLAN FOR PLATE HEIGHTS.
 - DIMENSION LINES ARE TO FACE OF STUD UNO.
 - WINDOW SIZES & ROUGH OPENINGS TO BE VERIFIED BY CONTRACTOR.
 - IF NOMINAL DOOR AND WINDOW HEIGHTS ARE SIMILAR, COORDINATE WITH DOOR AND WINDOW SPECS TO LOCATE FINAL ELEVATION OF THE HEAD HEIGHTS SO THAT ALL DOOR AND WINDOW TRIM ALIGN.
 - WINDOW AND DOOR SIZES ARE DIMENSIONED IN FEET AND INCHES (E.G. 2828" 2'-8 1/2" x 2'-9 1/2").
 - EXTERIOR WALLS TO BE 2x6 STUDS AT 16" O.C., INTERIOR WALLS TO BE 2x4 STUDS AT 16" O.C., UNO.
 - PRELIMINARY ALL PLUMBING PENETRATIONS AND STAIR RUNS PER IRC, R302.11.
 - SAFETY GLAZING PER IRC SEC. R308.4.
 - ALL WOOD IN CONTACT WITH CONCRETE TO BE PRESSURE TREATED PER IRC SEC. R317.1.
 - PROVIDE UNDER-STAR PROTECTION (1/2" GWB) PER IRC SEC. R302.7.
 - PROVIDE (1) LAYER OR 1/2" GWB AT THE GARAGE SIDE OF ALL WALLS SEPARATING THE GARAGE FROM THE RESIDENCE. ALL WALLS SUPPORTING A FLOOR CEILING ASSEMBLY BETWEEN THE GARAGE AND RESIDENCE, AND BETWEEN THE GARAGE AND ITS ATTIC. PROVIDE (1) LAYER 5/8" TYPE X GWB TO GARAGE CEILING IF BELOW HABITABLE ROOMS.
 - PER IRC SEC. R311.7.5, MAX. RISER HEIGHT SHALL BE 7-3/4" MIN. TREAD DEPTH SHALL BE 10". STAIR NOSINGS: 3/4" MIN. 1-1/4" MAX. RADIUS @ LEADING EDGE OF TREAD; 8/16" MAX.
 - PROVIDE HANDRAILS PER IRC SEC. R311.7.8, TOP OF HANDRAIL SHALL BE NOT LESS THAN 34" OR MORE THAN 38" ABOVE THE TREAD NOSINGS. HANDRAILS SHALL BE CONTINUOUS THE FULL LENGTH OF THE FLIGHT PER R311.7.8.2. THE HANDRAIL GRIP-SIZE SHALL BE PROVIDED PER R311.7.8.3.
 - PROVIDE GUARDS, MIN. 36" HEIGHT IN LOCATIONS PER IRC SEC. R312.
 - FACTORY BUILT FIREPLACES & CHIMNEYS SHALL BE LISTED & LABELED & SHALL BE INSTALLED & TERMINATED IN ACCORDANCE TO THE CONDITIONS OF THE LISTINGS. FACTORY BUILT FIREPLACES SHALL MEET EMISSION STANDARDS PER CH. 51-51 WAC R1004.1.
 - ALL SHOWERHEAD AND KITCHEN SINK FAUCETS INSTALLED IN THE HOUSE SHALL BE RATED AT 1.75 GPM OR LESS. ALL OTHER LAVATORY FAUCETS SHALL BE RATED AT 1.0 GPM OR LESS.

- PLAN KEY:**
- INDICATES 110V SMOKE DET. PER I.R.C. 313.4 INTERCONNECTED w/ EMERGENCY BATTERY BACKUP
 - INDICATES CARBON MONOXIDE ALARM PER I.R.C. R315.1
 - INDICATES EXHAUST VENTILATION FAN PER COVER SHEET.
 - INDICATES HEAT ALARM
- 306.1 ACCESS, APPLIANCES, CONTROLS DEVICES, HEAT EXCHANGERS AND HVAC SYSTEM COMPONENTS THAT UTILIZE ENERGY SHALL BE ACCESSIBLE FOR INSPECTION, SERVICE, REPAIR AND REPLACEMENT WHO DISABLING THE FUNCTION OF A FIRE-RESISTANCE-RATED ASSEMBLY OR REMOVING PERMANENT CONSTRUCTION OTHER APPLIANCES, VENTING SYSTEMS OR ANY OTHER PIPING OR DUCTS NOT CONNECTED TO THE APPLIANCE BEING INSPECTED, SERVICED, REPAIRED OR REPLACED. A LEVEL WORKING SPACE NOT LESS THAN 30 INCHES DEEP AND 30 INCHES WIDE (762 MM BY 762 MM) SHALL BE PROVIDED IN FRONT OF THE CONTROL SIDE TO SERVICE AN APPLIANCE.

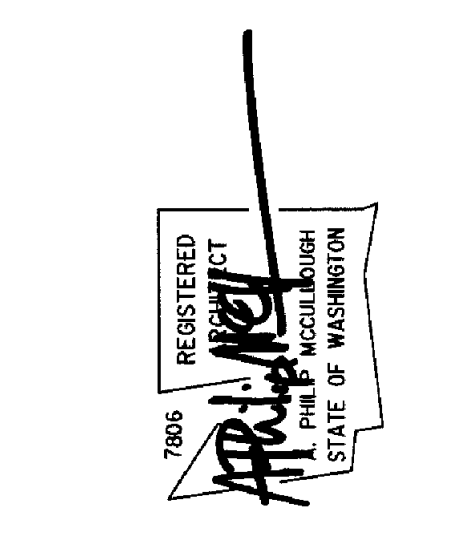
FENESTRATION ROUGH OPENING (RO) DIMENSIONED ON PLAN, UNO.



Comment
 01 Stair Commentary Response Set
 02 Stair Commentary Response Set

Revisions
 2024.05.08
 2024.05.30

Date: 2021.10.13
 Job No: 21-041
 Project No:
 Drawn: DUR
 Approved: APM

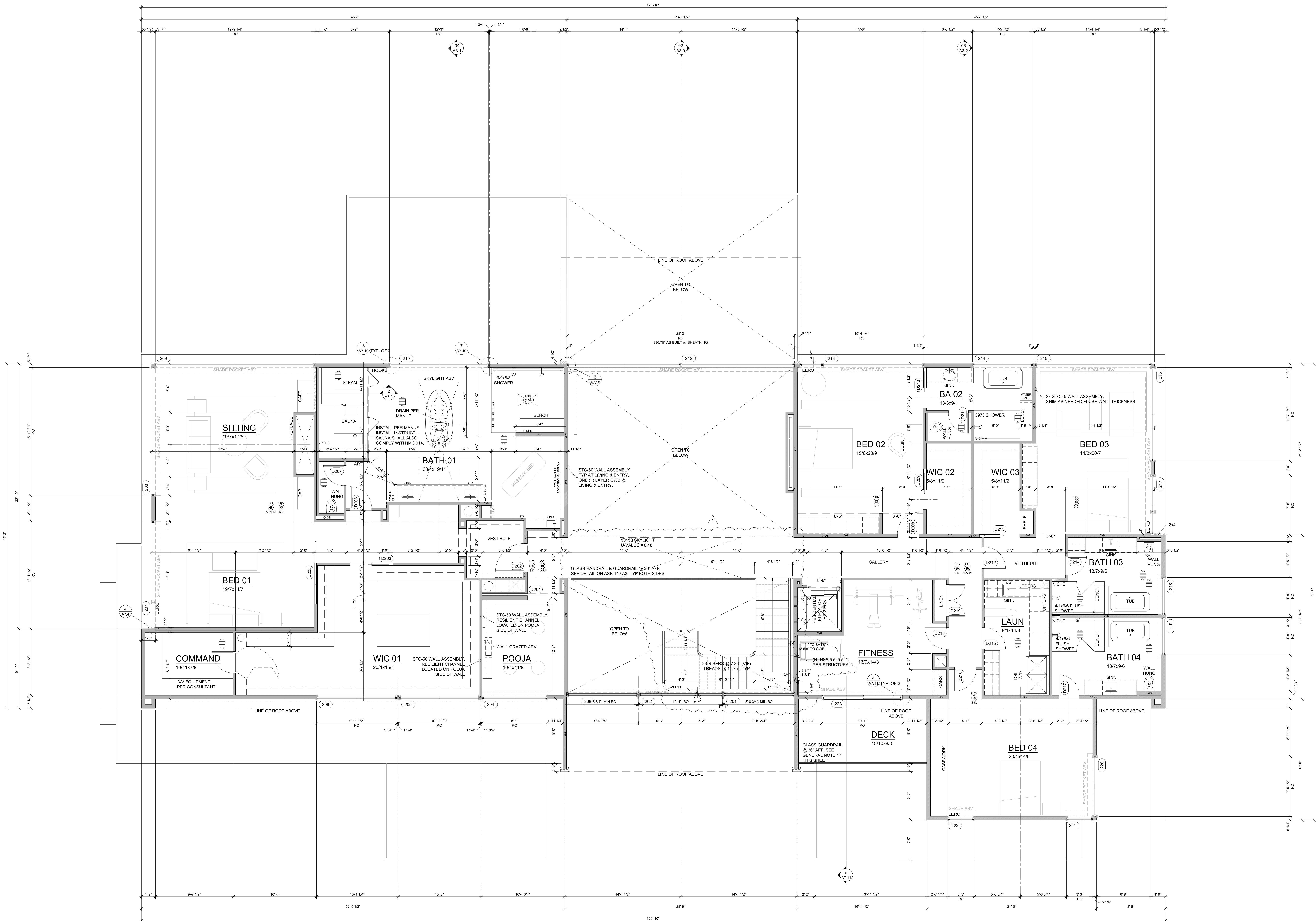


KONERU RESIDENCE
 6610 E Mercer Way
 Mercer Island, WA 98040

CONSTRUCTION
 PROGRESS SET

Main Floor Plan

A1.3



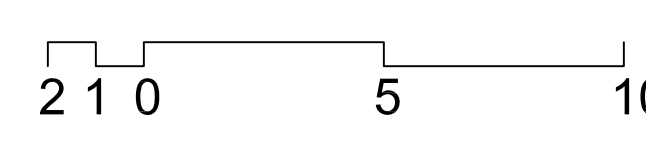
UPPER FLOOR PLAN

SCALE: 1/4" = 1'-0"
4,487 SF

- GENERAL NOTES:**
- SEE ELEVATIONS, SECTIONS AND ROOF PLAN FOR PLATE HEIGHTS.
 - DIMENSION LINES ARE TO FACE OF STUD UNO.
 - WINDOW SIZES & ROUGH OPENINGS TO BE VERIFIED BY CONTRACTOR.
 - IF NOMINAL DOOR AND WINDOW HEIGHTS ARE SIMILAR, COORDINATE WITH DOOR AND WINDOW SPECS TO LOCATE FINAL ELEVATION OF THE HEAD HEIGHTS SO THAT ALL DOOR AND WINDOW TRIM ALIGN.
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 - PER I.R.C. R311.7.5, MAX. RISER HEIGHT SHALL BE 7/32" MIN. TREAD DEPTH SHALL BE 10". STAIR NOSINGS: 3/4" MIN., 1-1/4" MAX. RADIUS @ LEADING EDGE OF TREAD; 8/16" MAX.
 - PROVIDE HANDRAILS PER I.R.C. R311.7.8, TOP OF HANDRAIL SHALL BE NOT LESS THAN 34" OR MORE THAN 38" ABOVE THE TREAD NOSINGS. HANDRAILS SHALL BE CONTINUOUS THE FULL LENGTH OF THE FLIGHT PER R311.7.8.2. THE HANDRAIL OPEN-SIZE SHALL BE PROVIDED PER R311.7.8.3.
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 - FACTORY BUILT FIREPLACES & CHIMNEYS SHALL BE LISTED & LABELED AND SHALL BE INSTALLED & TERMINATED IN ACCORDANCE TO THE CONDITIONS OF THE LISTINGS. FACTORY BUILT FIREPLACES SHALL MEET EMISSION STANDARDS PER CH. 5151 WAC R1004.1.1.
 - ALL SHOWERHEAD AND KITCHEN SINK FAUCETS INSTALLED IN THE HOUSE SHALL BE RATED AT 1.75 GPM OR LESS. ALL OTHER LAVATORY FAUCETS SHALL BE RATED AT 1.0 GPM OR LESS.
 - PER I.R.C. R308.4.1 EXCEPTION: GLASS BALUSTER PANELS SHALL BE LAMINATED GLASS w/ TWO OR MORE PLYS OF EQUAL THICKNESS AND OF SAME GLASS TYPE. NO ATTACHED TOP RAIL OR HANDRAIL REQUIRED.

- PLAN KEY:**
- INDICATES 110V SMOKE DET. PER I.R.C. 313.4 INTERCONNECTED w/ EMERGENCY BATTERY BACKUP
 - INDICATES CARBON MONOXIDE ALARM PER I.R.C. R315.1
 - INDICATES EXHAUST VENTILATION FAN PER COVER SHEET
 - HATCH INDICATES 2x WALL FRAMING TO BE COVERED POST FENESTRATION INSTALLATION

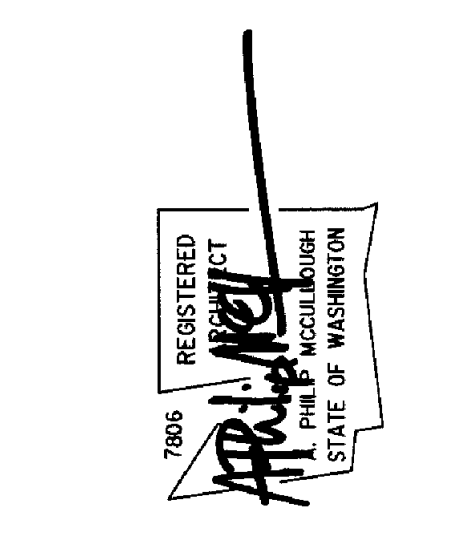
FENESTRATION ROUGH OPENING (RO) DIMENSIONED ON PLAN, UNO.



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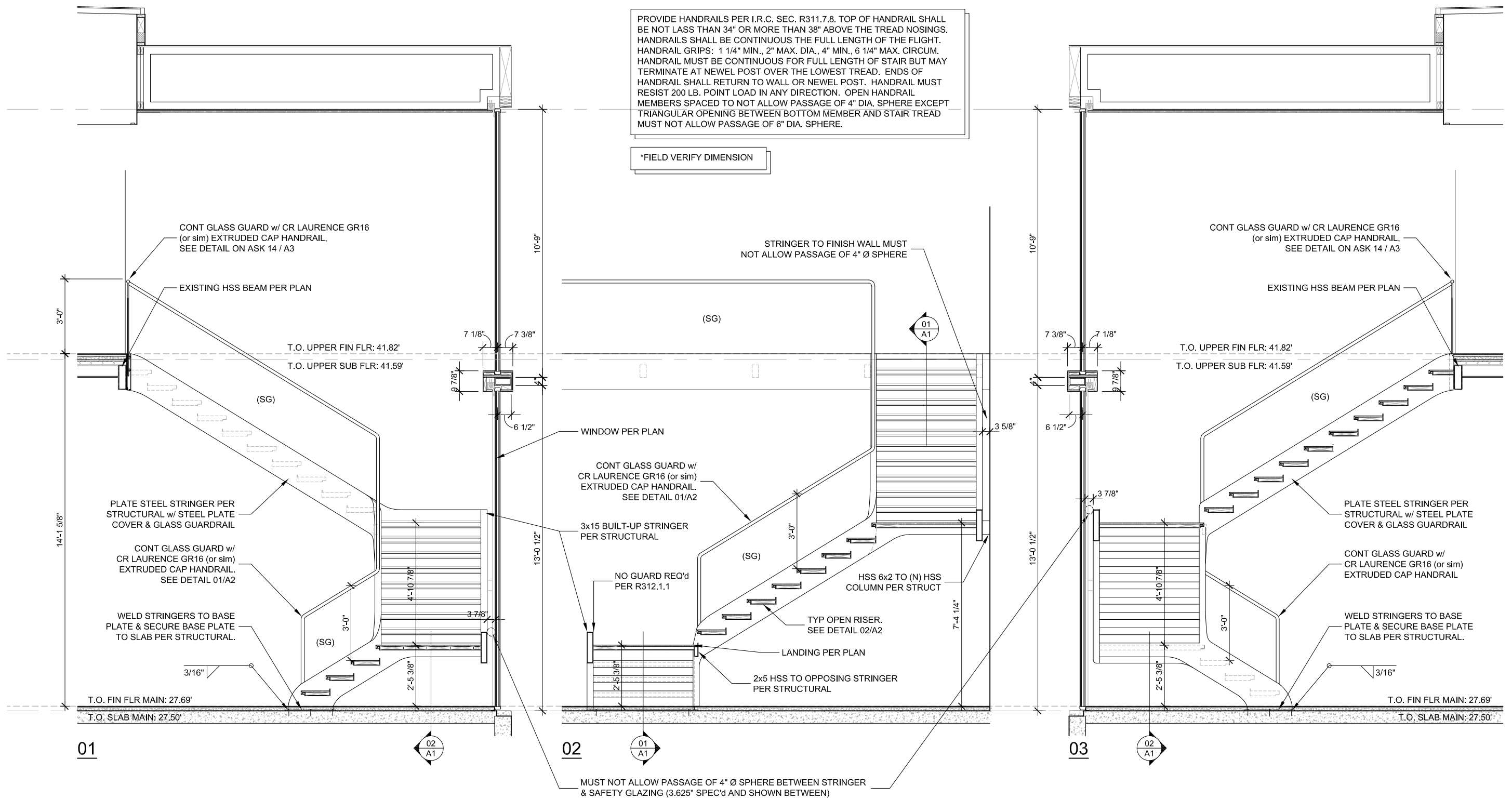


KONERU RESIDENCE
6610 E Mercer Way
Mercer Island, WA 98040

CONSTRUCTION
PROGRESS SET

Upper Floor Plan

A1.5

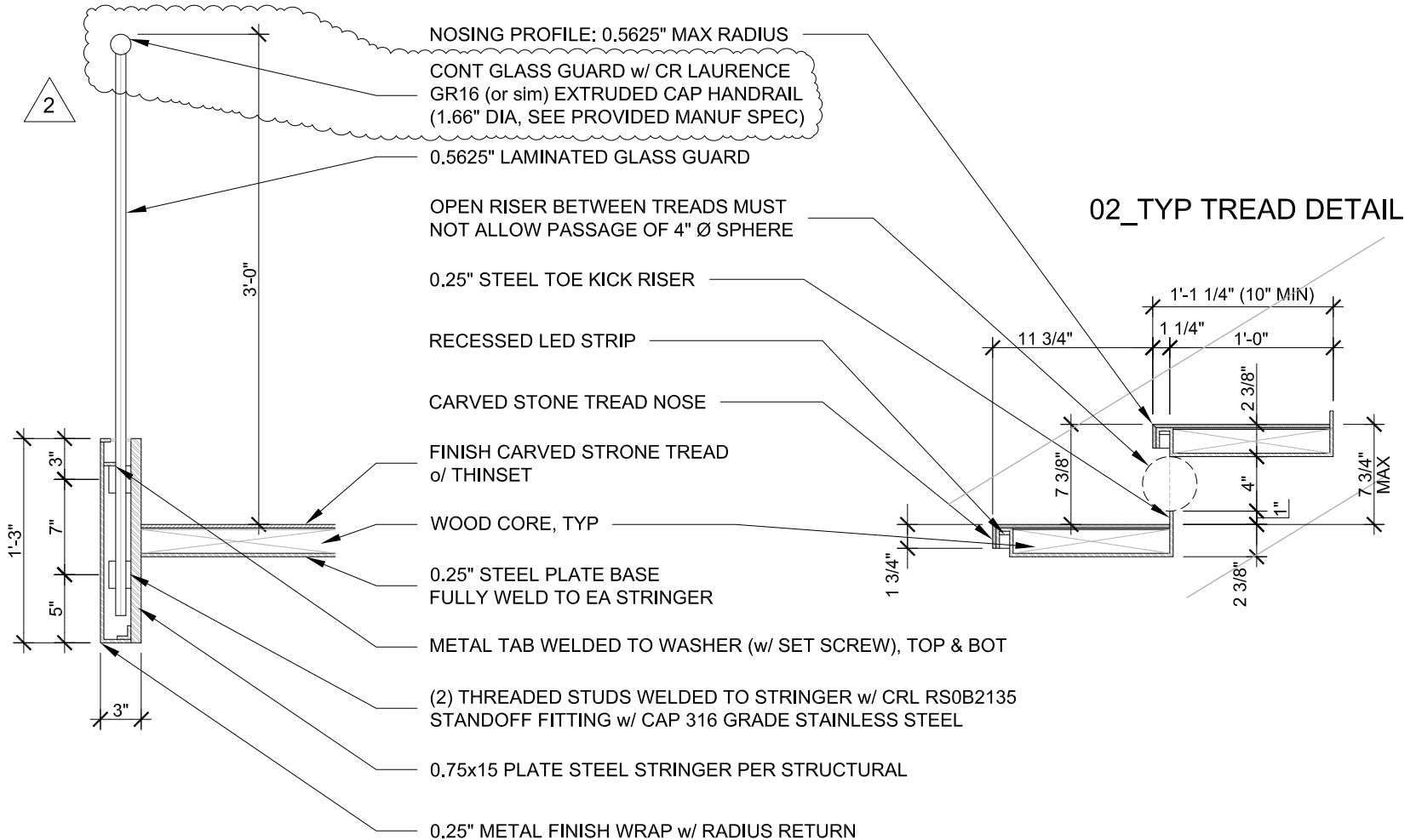


ASK 14_PROPOSED STAIR SECTIONS

SCALE: 1/4" = 1'-0" // 2024.05.28

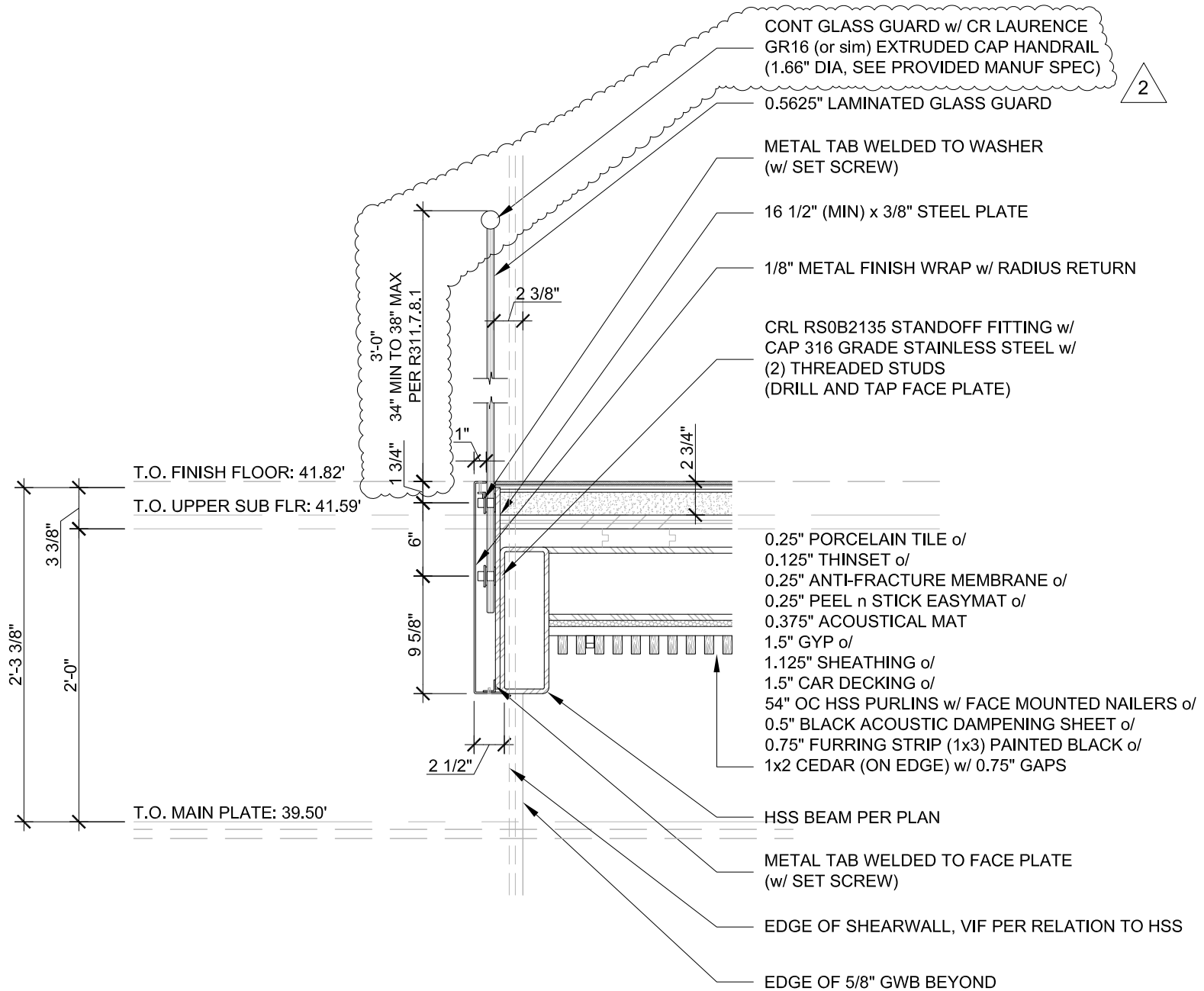
HANDRAIL GRIPS: 1.25" MIN., 2" MAX. DIAM., 4" MIN., 6.25" MAX. CIRCUM. HANDRAIL MUST BE CONTINUOUS FOR FULL LENGTH OF STAIR BUT MAY TERMINATE AT NEWEL POST OVER THE LOWEST TREAD. ENDS OF HANDRAIL SHALL RETURN TO WALL OR NEWEL POST. HANDRAIL MUST RESIST 200 LB. POINT LOAD IN ANY DIRECTION. OPEN HANDRAIL MEMBERS SPACED TO NOT ALLOW PASSAGE OF 4" SPHERE EXCEPT TRIANGULAR OPENING BETWEEN BOTTOM MEMBER AND STAIR TREAD MUST NOT ALLOW PASSAGE OF 6" SPHERE.

01_GUARD & HANDRAIL DETAIL



ASK 14_STAIR TREAD & GUARD DETAILS

SCALE: 1" = 1'-0"



2

ASK 14 BRIDGE SECTION & GUARD DETAIL

SCALE: 1" = 1'-0"

A3

General Structural Notes

THE FOLLOWING APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS

CRITERIA

- ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, AND THE INTERNATIONAL BUILDING CODE (2018 EDITION).
- DESIGN LOADING CRITERIA:
 HANDRAILS AND GUARDS
 GUARDRAILS/BALCONY RAILS 50 PLF
 GUARDRAILS/BALCONY RAILS CONCENTRATED LOAD 200 LBS
 RESIDENTIAL – ONE AND TWO-FAMILY DWELLINGS
 STAIR FLOOR LIVE LOAD. 40 PSF
 DEFLECTION CRITERIA
 LIVE LOAD DEFLECTION L/360
 TOTAL LOAD DEFLECTION L/240
 ENVIRONMENTAL LOADS
 EARTHQUAKE:
 ANALYSIS PROCEDURE: NON-STRUCTURAL COMPONENTS PER ASCE 7-16 CH. 13
 SITE CLASS=E, Ss=1.45, Sds=1.17, S1=0.50, Sd1=0.67, SDC D, Ip=1.5
 SEISMIC COEFFICIENTS FOR ARCHITECTURAL AND MECHANICAL COMPONENTS:

COMPONENT	ap	Rp	Ro
EGRESS STAIRS (STRUCTURE)	1	2.5	2
EGRESS STAIRS (FASTENERS & ATTACHMENTS)	2.5	2.5	2.5

SEE PLANS FOR ADDITIONAL LOADING CRITERIA

- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS FOR BIDDING AND CONSTRUCTION. ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THE SPECIFICATION, THESE GENERAL NOTES AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE GENERAL CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE GENERAL CONTRACTOR'S RISK.
- PRIMARY STRUCTURAL ELEMENTS NOT DIMENSIONED ON THE STRUCTURAL PLANS AND DETAILS SHALL BE LOCATED BY THE ARCHITECTURAL PLANS AND DETAILS. VERTICAL DIMENSION CONTROL IS DEFINED BY THE ARCHITECTURAL WALL SECTIONS, BUILDING SECTION, AND PLANS. DETAILING AND SHOP DRAWING PRODUCTION FOR STRUCTURAL ELEMENTS WILL REQUIRE DIMENSIONAL INFORMATION CONTAINED IN BOTH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE CONTRACTORS WORK. THE STRUCTURAL ENGINEER HAS NO OVERALL SUPERVISORY AUTHORITY OR ACTUAL AND/OR DIRECT RESPONSIBILITY FOR THE SPECIFIC WORKING CONDITIONS AT THE SITE AND/OR FOR ANY HAZARDS RESULTING FROM THE ACTIONS OF ANY TRADE CONTRACTOR. THE STRUCTURAL ENGINEER HAS NO DUTY TO INSPECT, SUPERVISE, NOTE, CORRECT, OR REPORT ANY HEALTH OR SAFETY DEFICIENCIES TO THE OWNER, CONTRACTORS, OR OTHER ENTITIES OR PERSONS AT THE PROJECT SITE.
- CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS. CONFORM TO ASCE 37-14 "DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION".
- CONTRACTOR-INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.
- DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER. ALL TYPICAL NOTES AND DETAILS SHOWN ON DRAWINGS SHALL APPLY, UNLESS NOTED OTHERWISE. TYPICAL DETAILS MAY NOT NECESSARILY BE INDICATED ON THE PLANS BUT SHALL STILL APPLY AS SHOWN OR DESCRIBED IN THE DETAILS. WHERE TYPICAL DETAILS ARE NOTED ON THE PLANS, THE SPECIFIED TYPICAL DETAIL SHALL BE USED. WHERE NO TYPICAL DETAIL IS NOTED, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CHOOSE THE APPROPRIATE TYPICAL DETAIL FROM THOSE PROVIDED OR REQUEST ADDITIONAL INFORMATION. THE CONTRACTOR SHALL SUBMIT ALL PROPOSED ALTERNATE TYPICAL DETAILS TO THOSE PROVIDED WITH RELATED CALCULATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO SHOP DRAWING PRODUCTION AND FIELD USE.
- ALL STRUCTURAL SYSTEMS, WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERRECTED, SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH INSTRUCTIONS PREPARED BY THE SUPPLIER.

10. SHOP DRAWINGS FOR THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION OF THESE ITEMS.

STRUCTURAL STEEL
 PRE-FABRICATED ASSEMBLIES (INCLUDING PANELIZED SYSTEMS)

APPROVED SETS OF ALL SHOP DRAWINGS SHALL ALSO BE SUBMITTED TO THE BUILDING DEPARTMENT (WHERE REQUIRED).

11. SHOP DRAWING REVIEW: DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE ENGINEER OF RECORD, THEREFORE MUST BE VERIFIED BY THE CONTRACTOR. CONTRACTOR SHALL REVIEW AND STAMP DRAWINGS PRIOR TO REVIEW BY ENGINEER OF RECORD. CONTRACTOR SHALL REVIEW DRAWINGS FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND OPERATIONS OF CONSTRUCTION, AND ALL SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO. SUBMITTALS SHALL INCLUDE A REPRODUCIBLE AND ONE COPY; REPRODUCIBLE WILL BE MARKED AND RETURNED WITHIN TWO WEEKS OF RECEIPT WITH A NOTATION INDICATING THAT THE SUBMITTAL HAS BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE SUBMITTED ITEMS SHALL NOT BE INSTALLED UNTIL THEY HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

SHOP DRAWING SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS. THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT, BY INDICATING WHICH MATERIAL IS INTENDED TO BE FURNISHED AND INSTALLED AND BY DETAILING THE INTENDED FABRICATION AND INSTALLATION METHODS. IF DEVIATIONS, DISCREPANCIES, OR CONFLICTS BETWEEN SHOP DRAWING SUBMITTALS AND THE CONTRACT DOCUMENTS ARE DISCOVERED EITHER PRIOR TO OR AFTER SHOP DRAWING SUBMITTALS ARE PROCESSED BY THE ENGINEER, THE DESIGN DRAWINGS AND SPECIFICATIONS SHALL CONTROL AND SHALL BE FOLLOWED.

QUALITY ASSURANCE

12. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND SECTIONS 110 AND 1705 OF THE INTERNATIONAL BUILDING CODE BY A QUALIFIED TESTING AGENCY DESIGNATED BY THE ARCHITECT, AND RETAINED BY THE BUILDING OWNER. THE ARCHITECT, STRUCTURAL ENGINEER, AND BUILDING DEPARTMENT SHALL BE FURNISHED WITH COPIES OF ALL INSPECTION AND TEST RESULTS. SPECIAL INSPECTION OF THE FOLLOWING TYPES OF CONSTRUCTION IS REQUIRED UNLESS NOTED OTHERWISE.

STRUCTURAL STEEL FABRICATION AND ERECTION PER AISC 360
 EXPANSION BOLTS AND THREADED EXPANSION INSERTS PER MANUFACTURER
 EPOXY GROUTED INSTALLATIONS PER MANUFACTURER

PERIODIC INSPECTION: INSPECTION SHALL BE PERFORMED AT INTERVALS NECESSARY TO CONFIRM THAT WORK REQUIRING SPECIAL INSPECTION IS IN COMPLIANCE WITH REQUIREMENTS.
 CONTINUOUS INSPECTION: INSPECTOR SHALL BE ONSITE AND OBSERVE THE WORK REQUIRING INSPECTION AT ALL TIMES THAT WORK IS PERFORMED.

ANCHORAGE

13. EXPANSION BOLTS INTO CONCRETE SHALL BE "STRONG-BOLT 2" WEDGE ANCHORS AS MANUFACTURED BY THE SIMPSON STRONG TIE COMPANY AND INSTALLED IN STRICT CONFORMANCE TO ICC-ES REPORT NUMBER ESR-3037, INCLUDING MINIMUM EMBEDMENT REQUIREMENTS. BOLTS INTO CONCRETE MASONRY OR BRICK MASONRY UNITS SHALL BE INTO FULLY CROUTED CELLS. PERIODIC SPECIAL INSPECTION IS REQUIRED TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, ANCHOR LOCATION, TIGHTENING TORQUE, HOLE DIMENSIONS, ANCHOR EMBEDMENT, AND ADHERENCE TO THE INSTALLATION INSTRUCTIONS.

14. EPOXY-GROUTED ITEMS (THREADED RODS OR REINFORCING BAR) SPECIFIED ON THE DRAWINGS SHALL BE INSTALLED USING "SET-XP" HIGH STRENGTH EPOXY AS MANUFACTURED BY THE SIMPSON STRONG, TIE COMPANY. INSTALL IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. ESR-2508. MINIMUM BASE MATERIAL TEMPERATURE IS 50 DEGREES, F. RODS SHALL BE ASTM A-36 UNLESS OTHERWISE NOTED. PERIODIC SPECIAL INSPECTION OF INSTALLATION IS REQUIRED TO VERIFY ANCHOR OR EMBEDDED BAR TYPE AND DIMENSIONS, LOCATION, ADHESIVE IDENTIFICATION AND EXPIRATION, HOLE DIMENSIONS, HOLE CLEANING PROCEDURE, ANCHOR EMBEDMENT, AND ADHERENCE TO THE INSTALLATION INSTRUCTIONS. CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR HORIZONTAL AND OVERHEAD INSTALLATIONS.

15. EPOXY-GROUTED ITEMS (THREADED RODS OR REINFORCING BAR) SPECIFIED ON THE DRAWINGS SHALL BE INSTALLED USING "AT-XP" AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY. INSTALL IN STRICT ACCORDANCE WITH IAMPO REPORT NO. ER-0281. MINIMUM BASE MATERIAL TEMPERATURE IS 14 DEGREES, F. RODS SHALL BE ASTM A-36 UNLESS OTHERWISE NOTED. PERIODIC SPECIAL INSPECTION OF INSTALLATION IS REQUIRED TO VERIFY ANCHOR OR EMBEDDED BAR TYPE AND DIMENSIONS, LOCATION, ADHESIVE IDENTIFICATION AND EXPIRATION, HOLE DIMENSIONS, HOLE CLEANING PROCEDURE, ANCHOR EMBEDMENT, AND ADHERENCE TO THE INSTALLATION INSTRUCTIONS. CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR HORIZONTAL AND OVERHEAD INSTALLATIONS.

16. CONCRETE SCREW ANCHORS INTO CONCRETE AND CONCRETE MASONRY UNITS SHALL BE "TITEN HD" HEAVY DUTY SCREW ANCHOR AS MANUFACTURED BY THE SIMPSON STRONG-TIE COMPANY, INSTALLED IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. ESR-2713 (CONCRETE), NO. ESR-1056 (CMU), INCLUDING MINIMUM EMBEDMENT REQUIREMENTS. SCREW ANCHORS INTO CONCRETE MASONRY UNITS SHALL BE INTO FULLY GROUTED CELLS. SPECIAL INSPECTION IS REQUIRED.

STEEL

17. STRUCTURAL STEEL DESIGN, FABRICATION, AND ERECTION SHALL BE BASED ON:

- AISC 360-16 AND SECTION 2205.2 OF THE INTERNATIONAL BUILDING CODE.
- JUNE 15, 2016 AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES AMENDED AS FOLLOWS: AS NOTED IN THE CONTRACT DOCUMENTS, BY THE DELETION OF PARAGRAPH 4.4.1, AND REVISE REFERENCE FROM "STRUCTURAL DESIGN DRAWINGS" TO "CONTRACT DOCUMENTS" IN PARAGRAPH 3.1.
- SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.

18. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

TYPE OF MEMBER	ASTM SPECIFICATION	FY
A. WIDE FLANGE SHAPES	A992	50 KSI
B. OTHER SHAPES, PLATES, AND RODS	A36	36 KSI
C. OTHER SHAPES AND PLATES (NOTED GRADE 50 ON PLANS)	A572 (GRADE 50)	50 KSI
D. PIPE COLUMNS	A53 (E OR S, GR. B)	35 KSI
E. STRUCTURAL TUBING -SQUARE OR RECTANGULAR	A500 (GR. C)	50 KSI
-ROUND		46 KSI
-ANY SHAPE	ASTM A1085	50 KSI
F. CONNECTION BOLTS (3/4" ROUND, UNLESS SHOWN OTHERWISE)	A325-N	

19. ALL STEEL EXPOSED TO THE WEATHER OR IN CONTACT WITH GROUND SHALL BE CORROSION PROTECTED BY GALVANIZATION OR PROVIDED WITH EXTERIOR PAINT SYSTEM, UNLESS OTHERWISE NOTED.

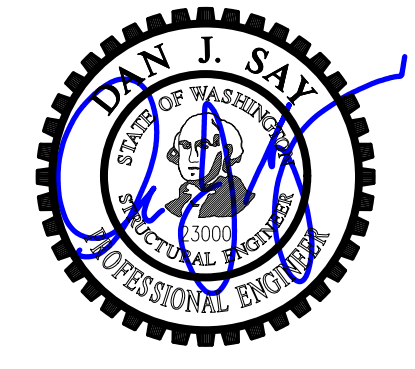
20. SHOP PRIME ALL STEEL EXCEPT:

- STEEL ENCASED IN CONCRETE.
- SURFACES TO BE WELDED.
- CONTACT SURFACES AT HIGH-STRENGTH BOLTS.
- MEMBERS TO BE GALVANIZED.
- MEMBERS WHICH WILL BE CONCEALED BY INTERIOR FINISHES.
- SURFACES TO RECEIVE SPRAYED FIREPROOFING.
- SURFACES TO RECEIVE OTHER SPECIAL SHOP PRIMERS.

21. ALL A-325N CONNECTION BOLTS NEED ONLY BE TIGHTENED TO A SNUG TIGHT CONDITION, DEFINED AS THE TIGHTNESS THAT EXISTS WHEN ALL PLIES IN A JOINT ARE IN FIRM CONTACT. THIS MAY BE ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF AN IRONWORKER USING AN ORDINARY SPUD WRENCH.

22. ALL WELDING SHALL BE IN CONFORMANCE WITH AISC AND AWS STANDARDS AND SHALL BE PERFORMED BY WABO CERTIFIED WELDERS USING E70XX ELECTRODES. ONLY PREQUALIFIED WELDS (AS DEFINED BY AWS) SHALL BE USED. ALL COMPLETE JOINT PENETRATION GROOVE WELDS SHALL BE MADE WITH A FILLER MATERIAL THAT HAS A MINIMUM CVN TOUGHNESS OF 20 FT-LBS AT -20 DEGREES F AND 40 FT - LBS AT 70 DEGREES F, AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION.

SSF
STRUCTURAL ENGINEERING
 SEATTLE
 2124 Third Avenue, Suite 100
 Seattle, WA 98121
 TACOMA
 934 Broadway, Suite 100
 Tacoma, WA 98402
 CENTRAL WASHINGTON
 414 N Pearl Street, Suite 8
 Ellensburg, WA 98926
 206.443.6212
 ssfengineers.com
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DRAWN: BJH
 DESIGN: SWJ
 CHECKED: DJS
 APPROVED: DJS

REVISIONS:
 1 PERMIT CORRECTION 1 5/30/24

JURISDICTIONAL APPROVAL STAMP:

PROJECT TITLE:
Koneru Residence
 6610 E Mercer Way
 Mercer Island, WA 98040

ARCHITECT:
McCullough Architects
 5601 6th Ave S, Suite 371
 Seattle, WA 98108
 PH 206.443.1181

ISSUE:
Permit

SHEET TITLE:
General Notes

SCALE: -
 DATE: April 19, 2024
 PROJECT NO: 13221-2023-01
 SHEET NO:

S1.1

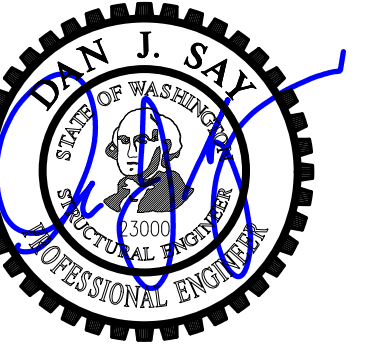
MALSAM TSANG
STRUCTURAL ENGINEERING

REVIEWED AND NOTED FOR DESIGN INTENT ONLY
 REVIEWED FOR LOADS IMPOSED ON BASIC STRUCTURE ONLY
 NO EXCEPTION TAKEN
 NOTE MARKINGS
 SKETCHES ATTACHED
 REVISE AND RESUBMIT
 NOT REVIEWED

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JCM 05/30/24
 REVIEWED BY DATE



DRAWN: BJH
 DESIGN: SWJ
 CHECKED: DJS
 APPROVED: DJS

REVISIONS:
 1 PERMIT CORRECTION 1 5/30/24

JURISDICTIONAL APPROVAL STAMP:

PROJECT TITLE:
Koneru Residence
 6610 E Mercer Way
 Mercer Island, WA 98040

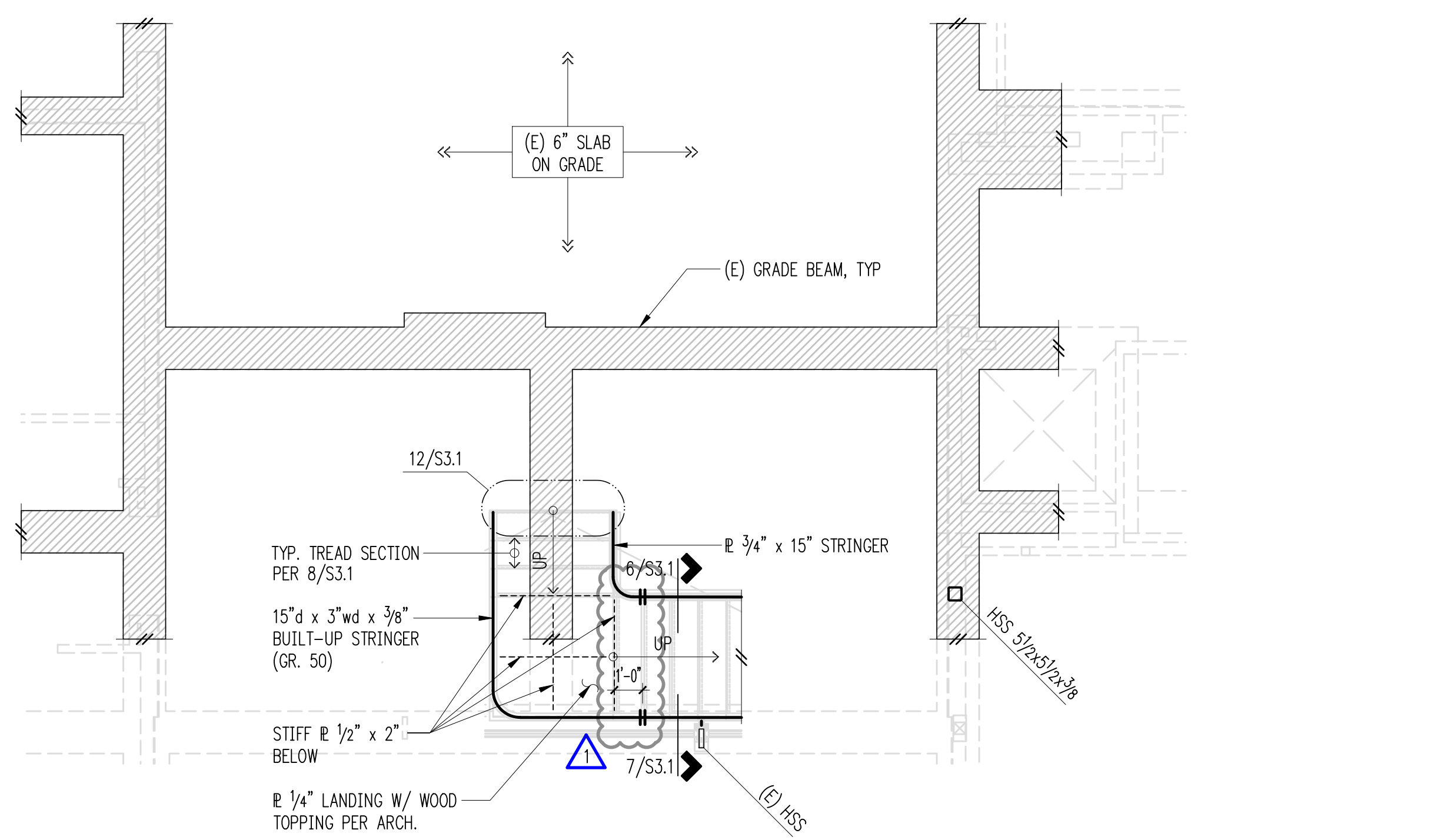
ARCHITECT:
McCullough Architects
 5601 6th Ave S, Suite 371
 Seattle, WA 98108
 PH 206.443.1181

ISSUE:
Permit

SHEET TITLE:
Main Floor and Upper Floor Framing Plans

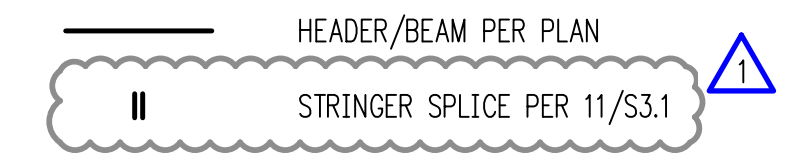
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 DATE: April 19, 2024
 PROJECT NO: 13221-2023-01
 SHEET NO:

S2.1

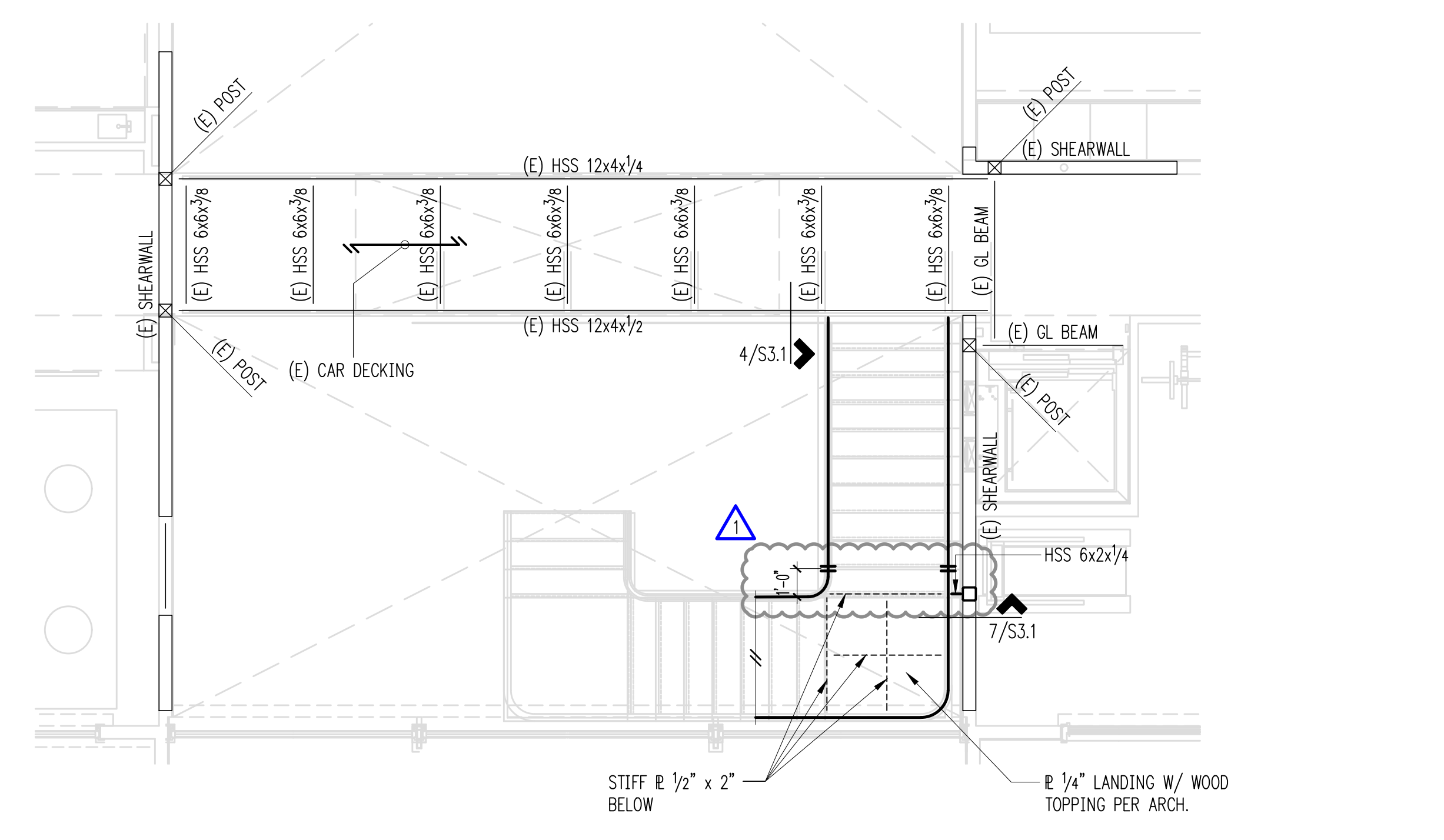


Plan Notes **Legend** **Main Floor Framing Plan**

- DO NOT SCALE THE DRAWINGS. ANY DIMENSIONS SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED BY THE OWNER/CONTRACTOR.
- EXISTING MAIN FLOOR FRAMING 6" THICK STRUCTURAL SLAB ON GRADE SUPPORTED OVER CONCRETE GRADE BEAMS AND STEEL PIPE PILES.
- THE TOP OF THE STAIR IS SUPPORTED BY AN EXISTING STEEL BRIDGE WITH STEEL HSS BEAMS AND PURLINS.
- THE EXISTING STRUCTURE HAS BEEN PREVIOUSLY EVALUATED FOR LOADS IMPOSED BY THE NEW STAIR.
- CONTRACTOR SHALL FIELD MEASURE AND VERIFY ALL CONDITIONS PRIOR TO COMMENCING WORK AND NOTIFY THE ARCHITECT AND ENGINEER WHERE CONDITIONS VARY FROM THOSE SHOWN.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT STAIR DIMENSIONS.
- REFER TO S3.1 FOR STAIR SUPPORT DETAILS.
- REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

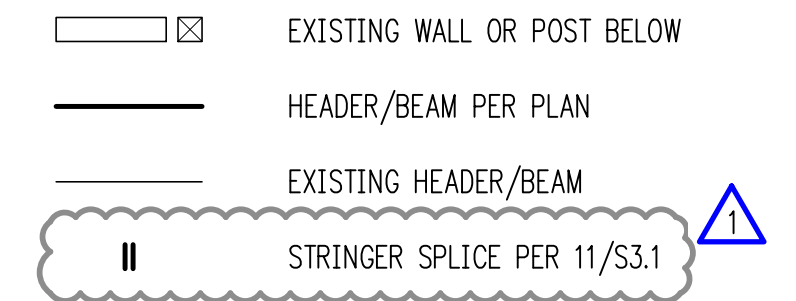


Scale: 1/4" = 1'-0"



Plan Notes **Legend** **Upper Floor Framing Plan**

- DO NOT SCALE THE DRAWINGS. ANY DIMENSIONS SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED BY THE OWNER/CONTRACTOR.
- EXISTING MAIN FLOOR FRAMING 6" THICK STRUCTURAL SLAB ON GRADE SUPPORTED OVER CONCRETE GRADE BEAMS AND STEEL PIPE PILES.
- THE TOP OF THE STAIR IS SUPPORTED BY AN EXISTING STEEL BRIDGE WITH STEEL HSS BEAMS AND PURLINS.
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- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT STAIR DIMENSIONS.
- REFER TO S3.1 FOR STAIR DETAILS.
- REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



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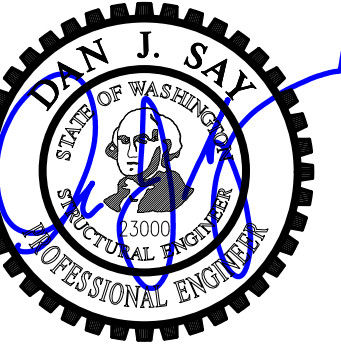
MALSAM TSANG
STRUCTURAL ENGINEERING

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 REVIEWED FOR LOADS IMPOSED ON BASIC STRUCTURE ONLY
 NO EXCEPTION TAKEN
 NOTE MARKINGS
 SKETCHES ATTACHED
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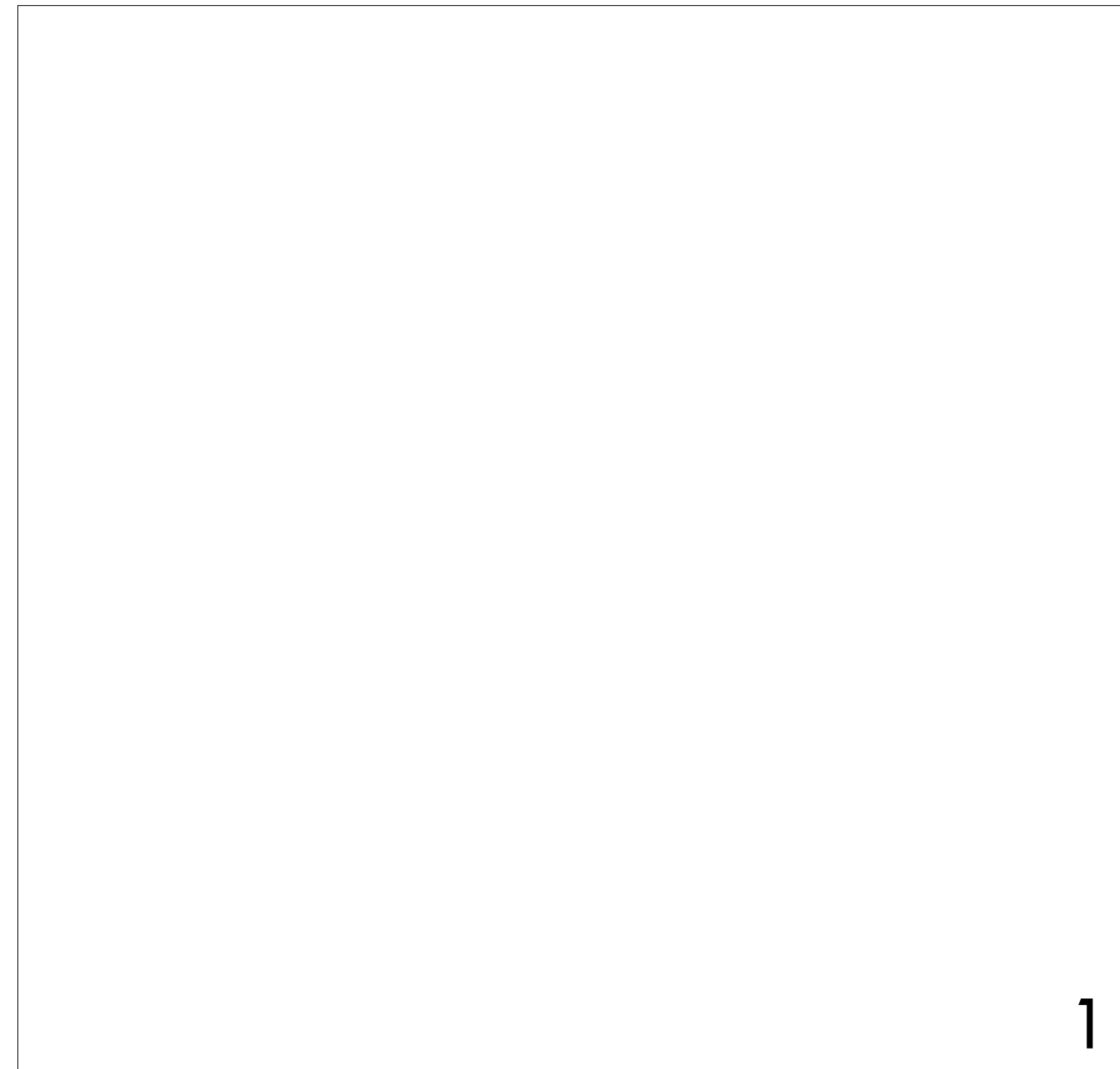
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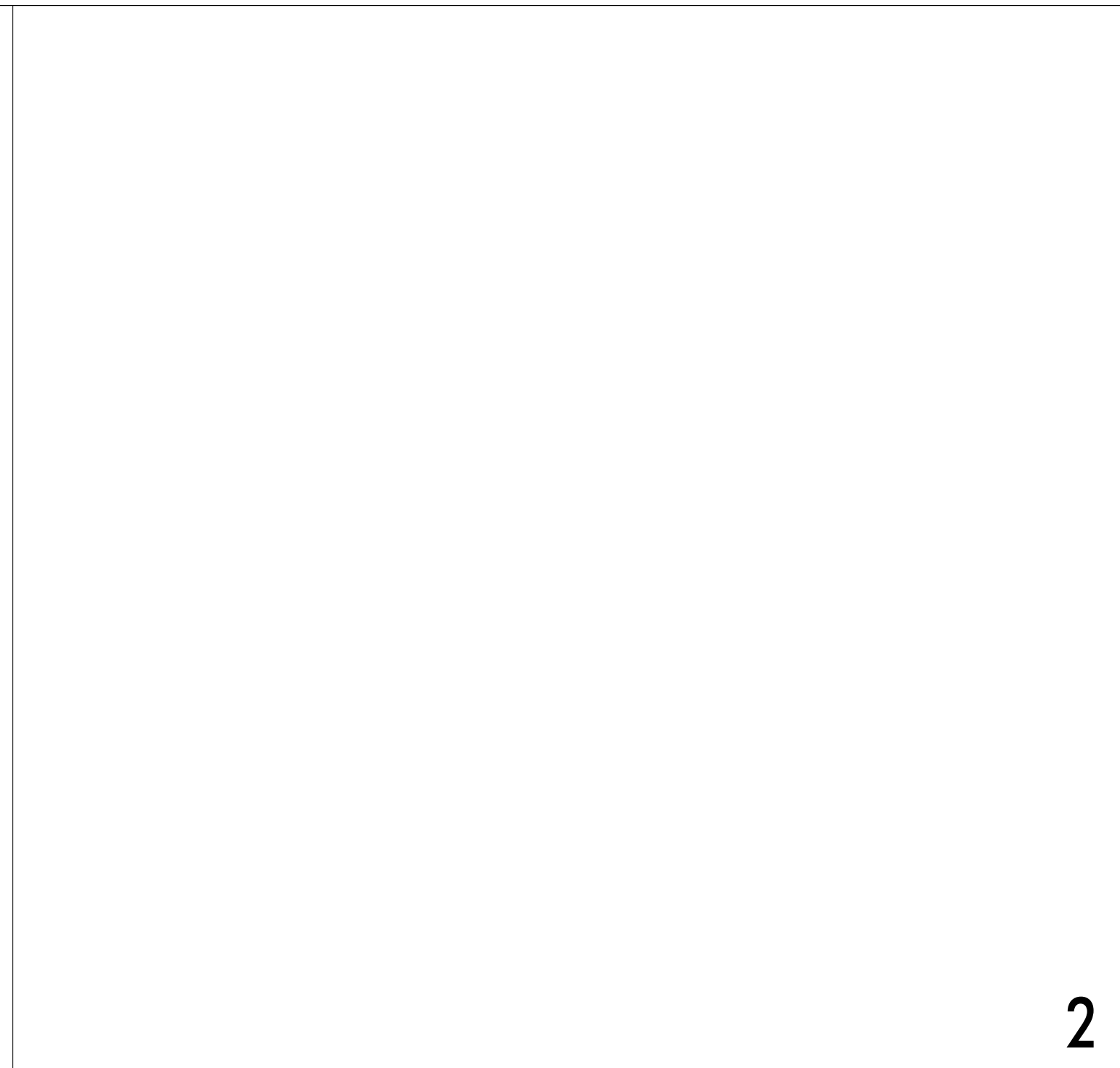
SHEET TITLE:
 Stair Details

SCALE: 1-1/2" = 1'-0" U.N.O.
 DATE: April 19, 2024
 PROJECT NO: 13221-2023-01
 SHEET NO:

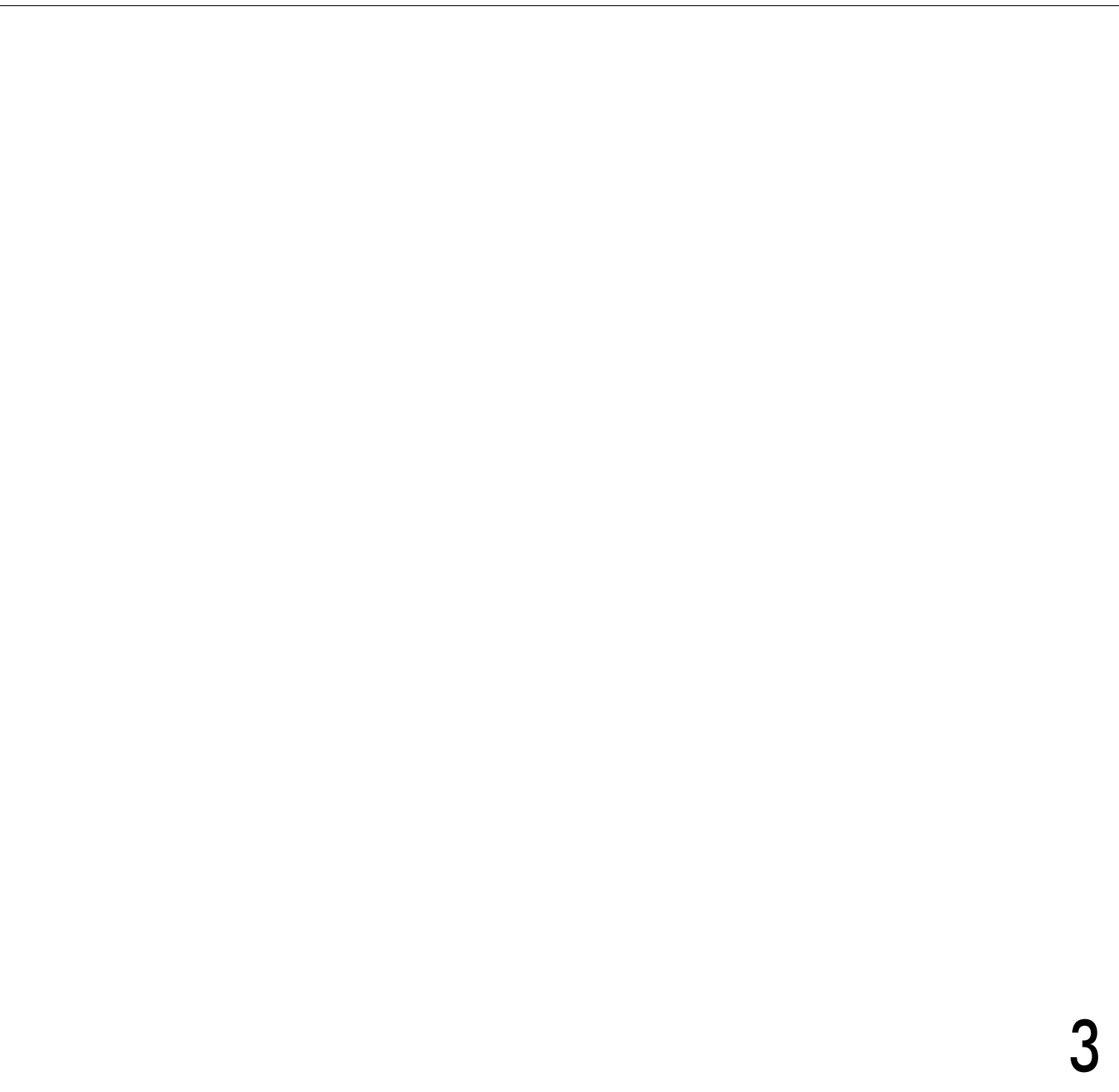
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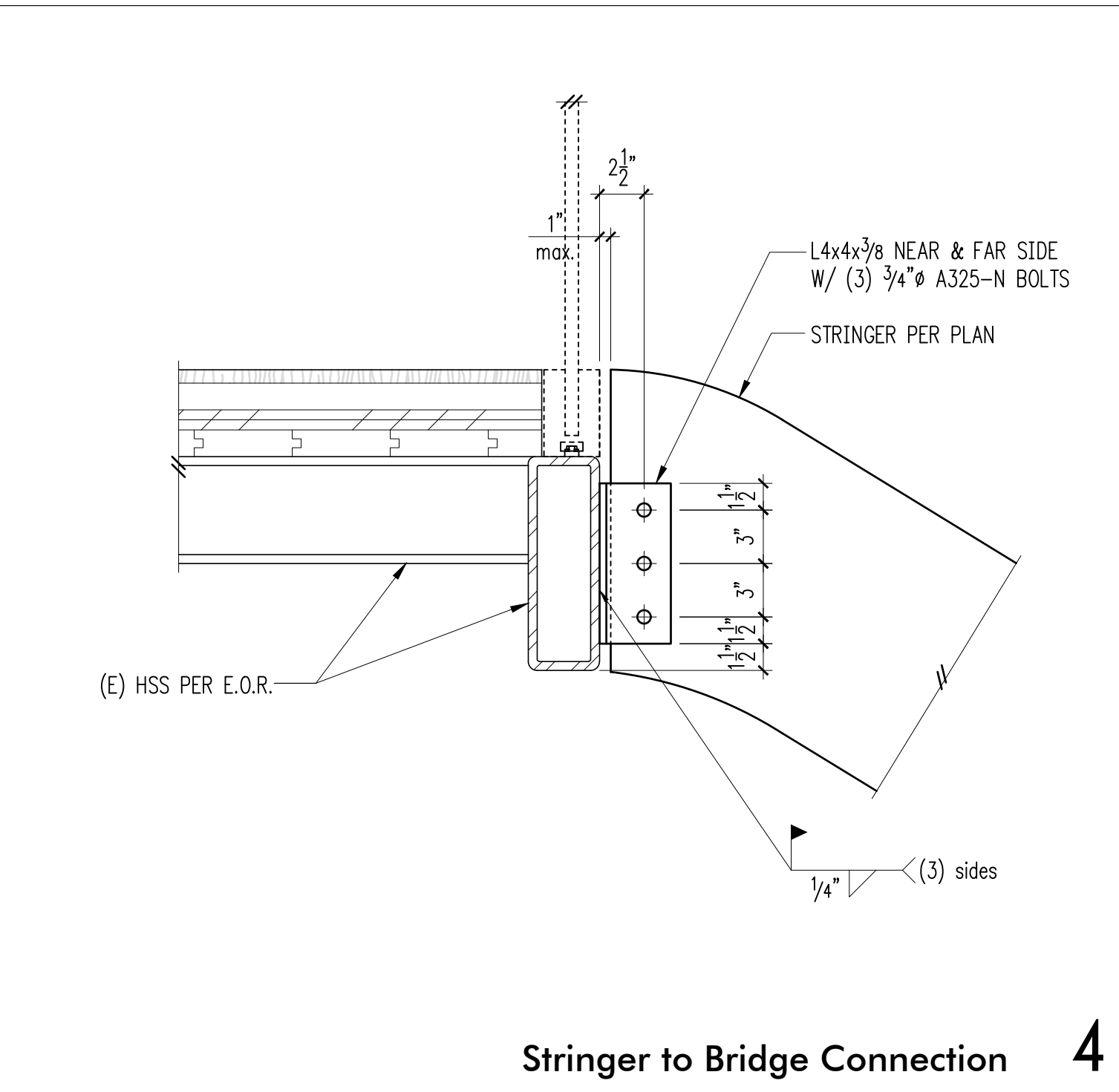
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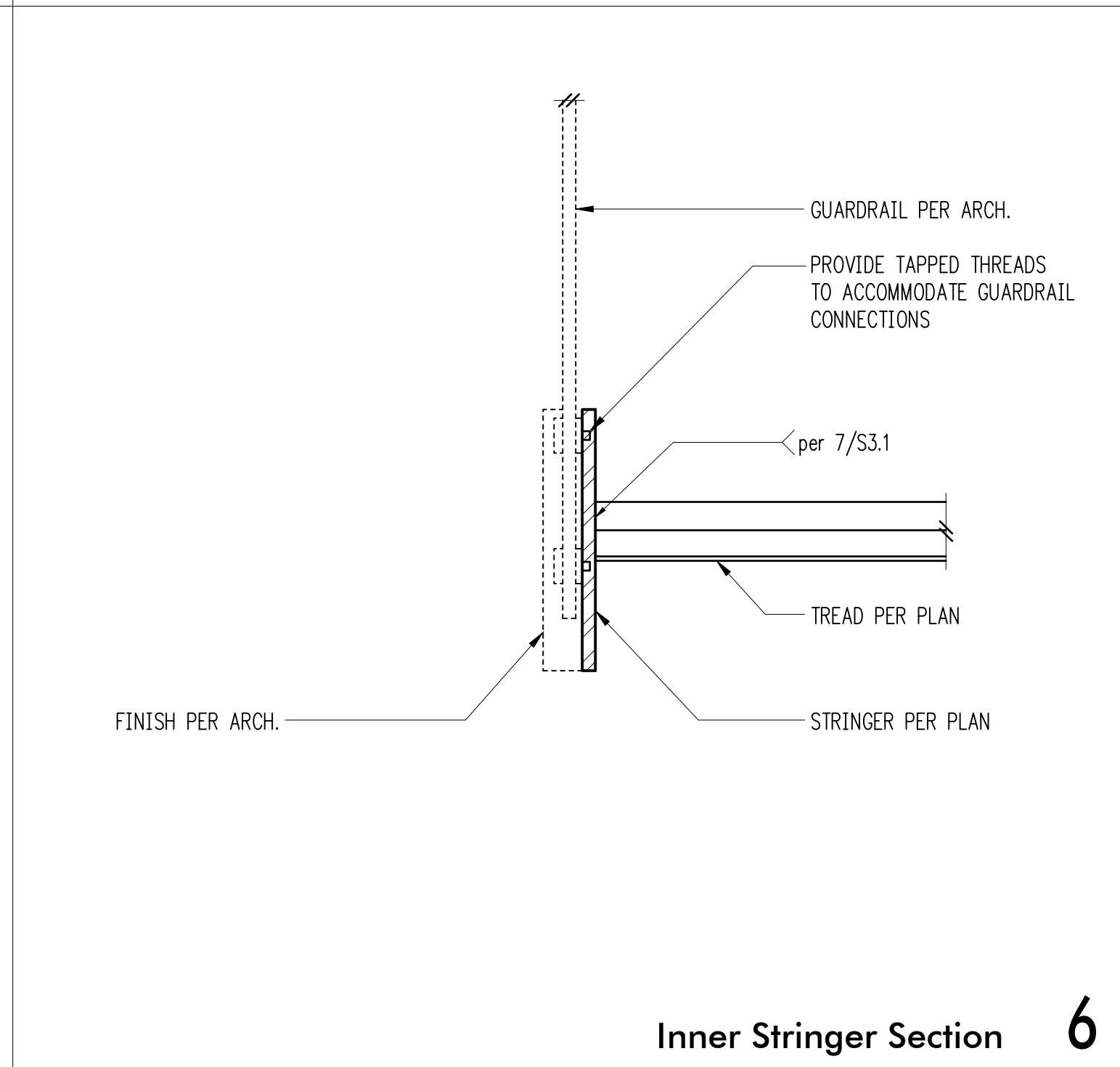
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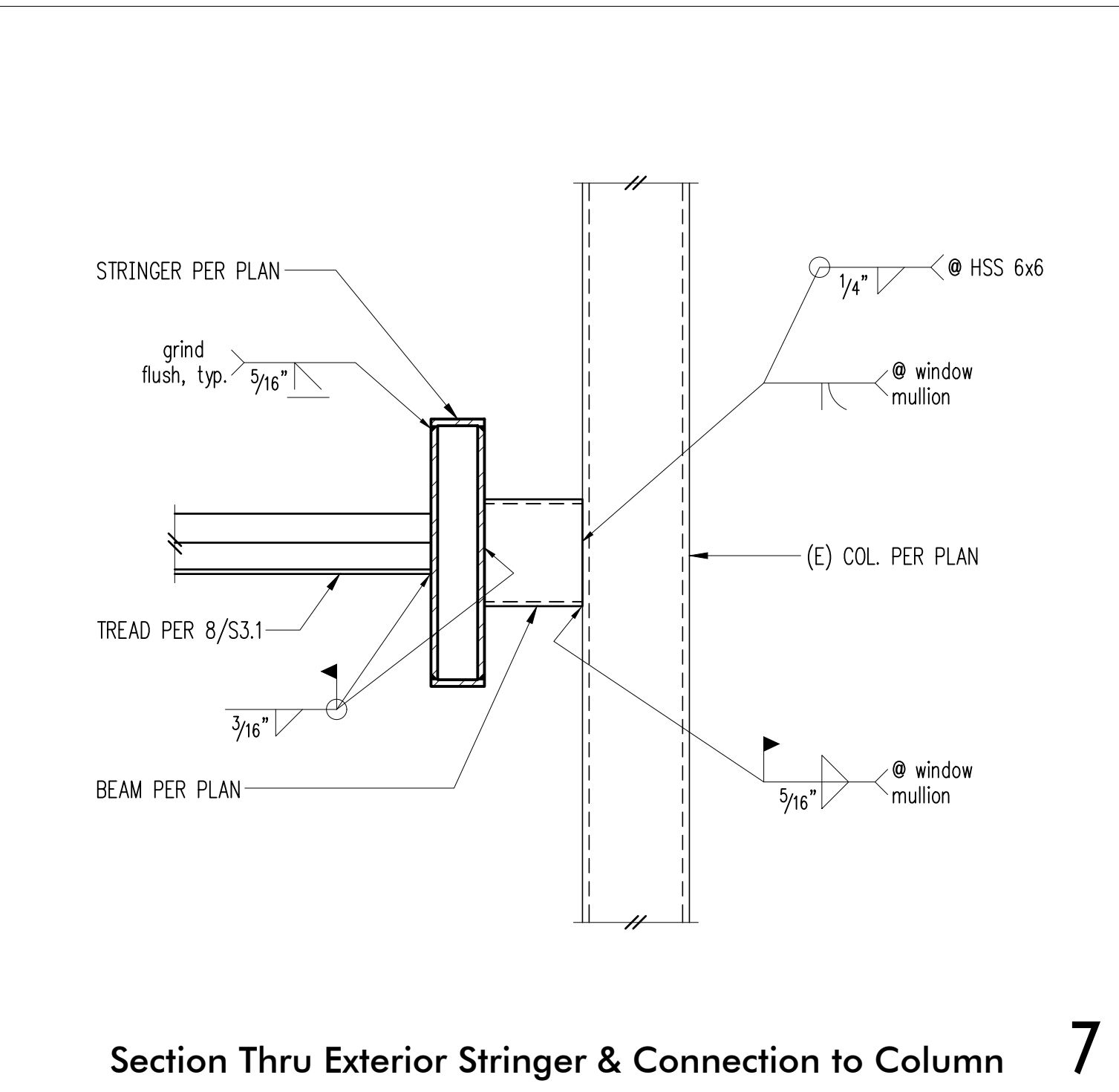
Stringer to Bridge Connection 4



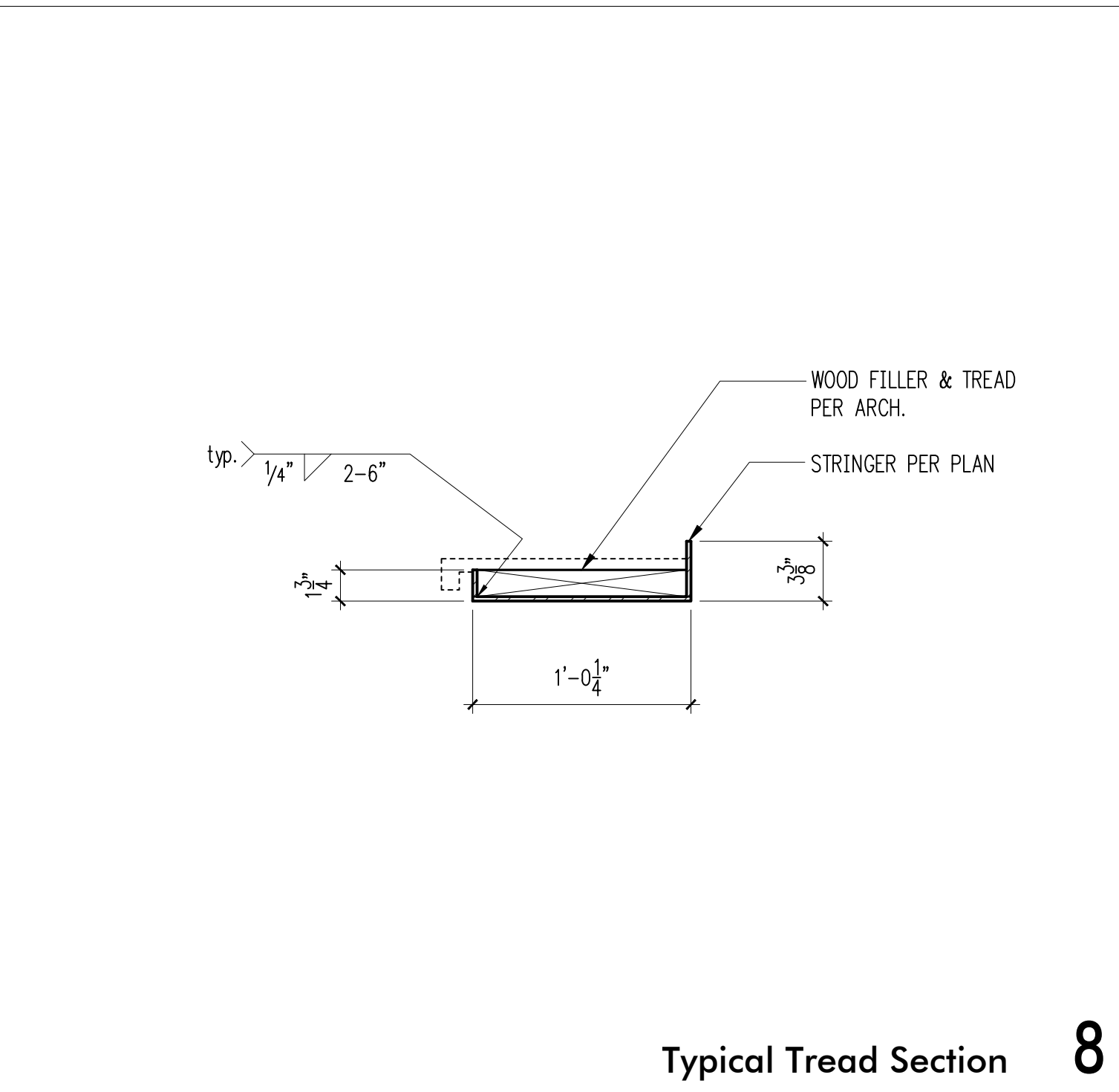
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Inner Stringer Section 6



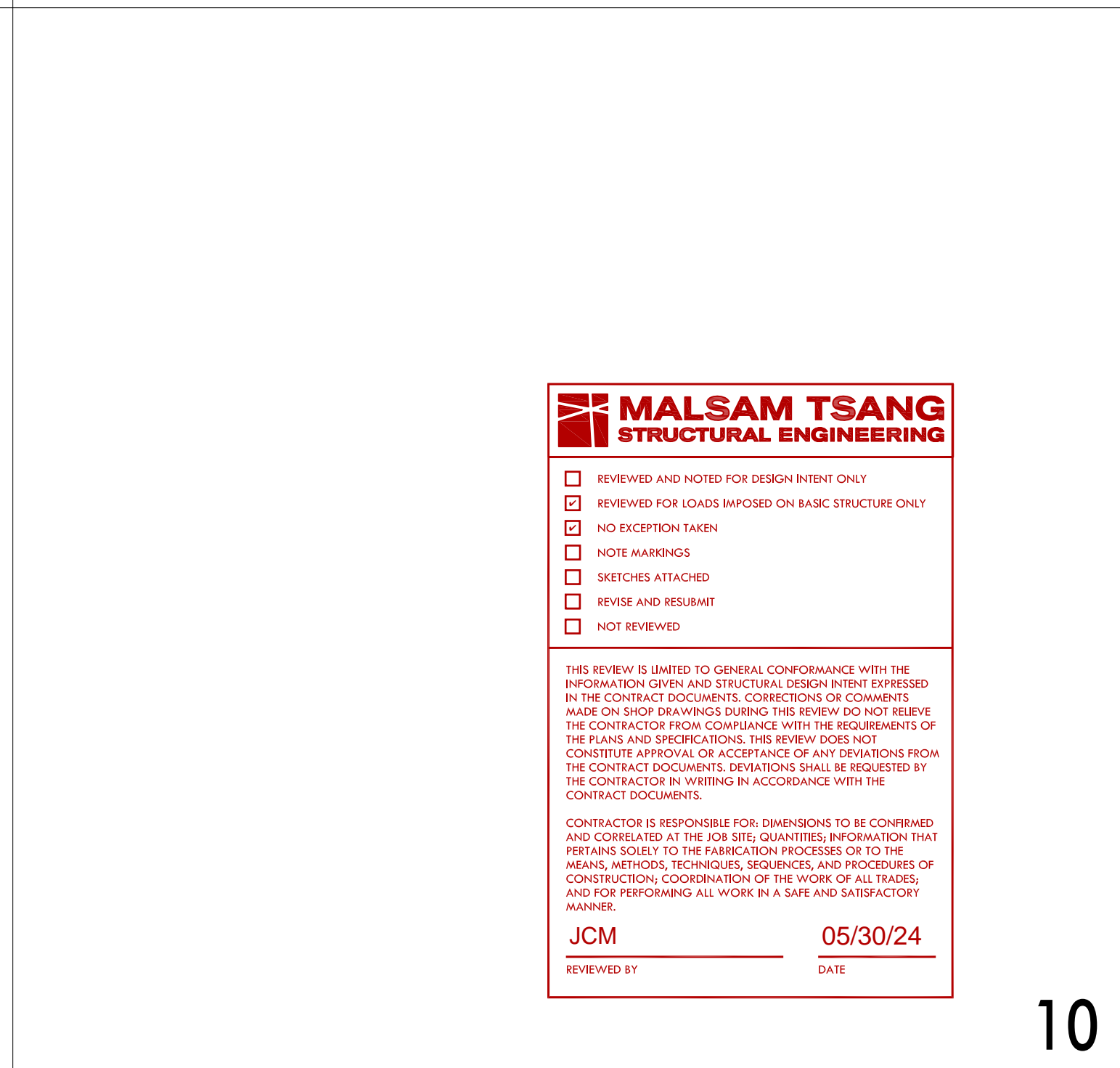
Section Thru Exterior Stringer & Connection to Column 7



Typical Tread Section 8



9



Stair Stringer Splice Connections 11

MALSAM TSANG
 STRUCTURAL ENGINEERING

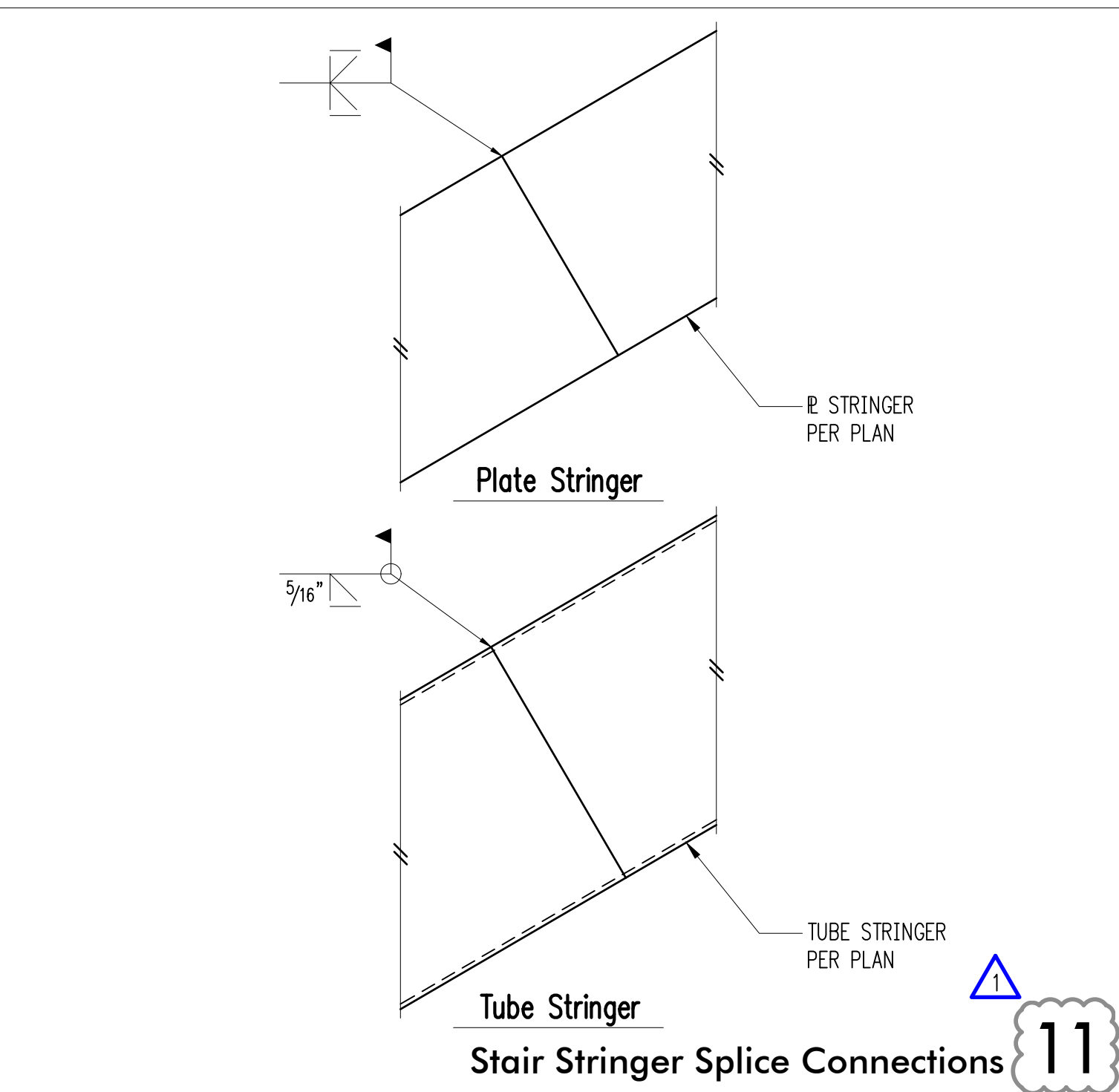
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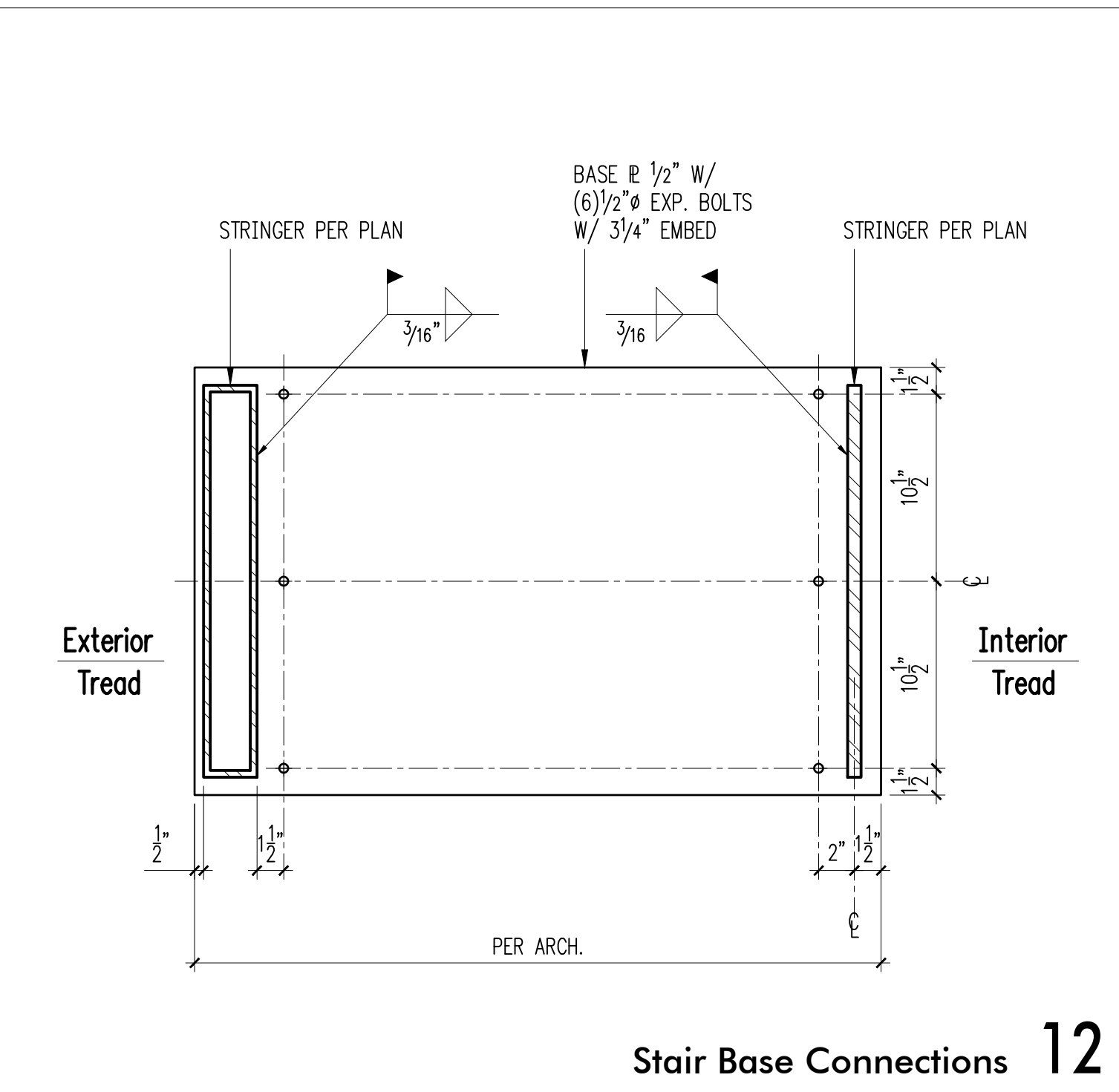
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10



11



Stair Base Connections 12