

Roscoe Residence

jackson, wyoming

FARMERPAYNE | ARCHITECTS |



Roscoe Residence

6165 W Burcher Road
Wilson, WY

PROJECT DIRECTORY

Architect: **Farmer Payne Architects**
Jamie Farmer, Principal, AIA, LEED
260 W Broadway, Suite A
Jackson, WY 83001
t: 307.264.0080
e: jamie@farmerpaynearchitects.com

Contractor: **Wil Roscoe**
Owner/Contractor
PO Box 836
Wilson, WY 83014
t: 310.876.2330
e: wroscoe@gmail.com

Structural Engineer: **Tectonic Design LLC**
Jeff Hobson, Owner/Engineer
PO Box 3945
Jackson, WY 83001
t: 307.413.5519
e: j.hobson@tectonicdesign22.com

Mechanical Engineer: **JTEC**
Justin Tatolian, PE, LEED AP BD+C
t: 307.699.1110
e: jtatalian@jtecinc.com

Civil Engineer: **SCG**
Randy Schrauder, PE & PHIUS Builder
t: 307.413.4399
e: randy@scgengineering.com

PROJECT ADDRESS

6165 W Burcher Rd
Wilson, WY 83014

VICINITY MAP



CODE ANALYSIS

2021 International Residential Code

Occupancy: Residential

Construction Type: Type VB

Number of Stories: 3

Building Height: 34'-2"
Max Allowed: 37'-6"

Zoning: R-3

*Fire Sprinklers Required. System Design as deferred submittal by Mountain Fire Protection

SQUARE FOOTAGE TABULATIONS

Main Level Habitable	1,521 sf
Upper Level Habitable	1,329 sf
Lower Level Habitable	840 sf
TOTAL HABITABLE	
	3,690 sf
Mechanical	297 sf
Garage	835 sf
Storage	439 sf
TOTAL NON-HABITABLE	
	1,571 sf
Total Habitable	3,690 sf
Total Non-habitable	1,571 sf
TOTAL GROSS SQ FT	
	5,261 sf
TOTAL SITE DEVELOPMENT	
	4300 sf

Proposed New Footprint
Paved and Unpaved Driveways
Decks, Porches, Patios, Terraces
Other non Veg

2,640 sf
1,250 sf
410 sf
0 sf
4300 sf

DRAWING INDEX

A100 Cover

A101 General Notes

CIVIL

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Proposed Conditions Site Plan
Proposed Utility Site Plan
Proposed Utility Details
Proposed Grading & Erosion Plan
Proposed Grading & Erosion

ARCHITECTURAL

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A602 Details

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S0.3 Shear Wall Schedule & Special Inspection

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M4.1 Mechanical & Plumbing Notes
M4.2 Mechanical & Plumbing Notes

E100 Lower Level RCP & Power
E101 Main Level RCP & Power
E102 Upper Level RCP & Power
E103 Electrical Calcs

GENERAL NOTES

01. The structural, mechanical and electrical drawings are supplementary to the architectural drawings. It shall be the responsibility of the contractor to check with the architectural drawings before the installation of structural, mechanical, electrical, and plumbing work. Any discrepancy between the architectural drawings and the consulting engineers drawings, shall be brought to the architects attention for clarification prior to installation of said work. Any work installed in conflict with the architectural drawings shall be corrected by the contractor at his expense and at no additional expense to the owner of architect.

02. Contractor shall verify all conditions and dimensions at job site prior to bidding and start of construction. If discrepancies are found, the architect shall be noted for clarification before commencing work.

03. All symbols and abbreviations used on the drawings are considered to be construction standards. If the contractor has questions regarding some, or their exact meaning, the architect shall be notified for clarification.

04. All work shall conform to the requirements of the most current edition of the International Residential Code. The most current adopted version NFPA 101 Life Safety Code, National Electric Code, The Uniform Plumbing Code, The Uniform Mechanical Code, and all other governing authorities having jurisdiction.

05. Contractor shall submit shop drawings for windows, doors, millwork, cabinetry, structural steel, trusses, etc. Contractor shall submit samples for all finishes. All submittals shall be approved by architect before installed.

06. All dimensions are to face of concrete, face of column or center line, face of concrete block walls and face of studs unless otherwise noted.

07. Offset studs where required so that finish wall surface will be flush.

08. All walls are 2x6 unless otherwise noted or dimensioned.

09. Ceiling height dimensions are to structural or framing surfaces. Coordinate finishes with interior finish schedule.

10. Gypsum boards shall extend 6" above ceiling at all column cores and walls, unless noted otherwise.

11. Install metal corner beads at all exposed wallboard edges. Install casing beads wherever wallboard, plaster, etc. abuts a dissimilar finish material and provide sealant as required.

12. Extend perimeter walls of core to structure above insulate.

13. Plenum spaces shall be airtight and sealed.

14. Contractors shall verify size and locations of all mechanical equipment pads and bases as well as power and water or drain installations with equipment manufacturer's before proceeding with the work. Changes to accommodate field conditions or substitutions shall be made without additional charge to owner.

15. Ducts penetrating stud walls or shaft walls be provided with necessary frames, bracing and sealant around the opening.

16. Contractor shall provide and install all stiffeners, bracing, back-up plates and supporting brackets required for the installation of all wall mounted or suspended mechanical, electrical or miscellaneous equipment.

17. Contact between dissimilar metal shall be protected.

18. Contractor responsible for structural foundation, mechanical, electrical, and plumbing. Architects mechanical, electrical, and plumbing drawings are schematic and only meant for design intent.

19. Roofing system shall bear U.L. listing as a class "A" system. All manufactured materials used shall bear the appropriate U.L. label.

20. Contractor shall verify all concrete and masonry openings in the field prior to the fabrication of doors and frames.

21. Air leakage at exterior doors shall be limited by the following:

a. All doors shall be provided with a seal or astragal
b. Doors mounted on either the inside or outside of an exterior wall shall have a minimum of one-inch lap at each jamb.

c. Doors requiring vertical track or guides shall use a continuous mounting angle, sealed in accordance with "G" listed here.

d. Doors mounted between the jambs shall have a continuous seal or baffle at each jamb.

e. Meeting rails or sections doors and meeting stiles or rails of bi-parting doors shall be provided with a seal, astragal or baffle.

f. Swinging and revolving doors shall be weather-stripped at the head, sill and jamb.

g. Open exterior joints around window and door frames, between wall and foundations, between wall and roof, between wall panels, at penetrations of utility services through walls, floors and roofs and all other openings in the exterior envelope shall be sealed, caulked, gasketed, or weather-stripped to limit air leakage.

22. All door sizes shown on door schedule are opening sizes. Allowance for thresholds etc. shall be taken off door. All doors and frames shall be reinforced where required for closers, stops and hardware.

SITE CONDITIONS

01. The general contractor shall coordinate with the architect and civil engineer for the final building location, and driveway layout.

02. The general contractor shall dispose of all excess excavated material.

03. The general contractor shall maintain the site throughout the course of the project by: Repairing all earth related scarring such as ruts caused by equipment, spills, etc.; Repairing or replacing all scarred, broken, or tress damaged by equipment movement; Exercise routine weekly removal of all refuse or other discarded material.

04. The general contractor responsible for the coordination and installation of all necessary site utilities including but not limited to power, telephone, water, sewer, gas, cable, etc. The general contractor shall fill in and compact all trenches cut to install utilities on the site. The general contractor shall verify the location of all meters, cans, tanks, lines, etc., with the architect.

05. The general contractor shall retain any removed topsoil for the finish grading, of which 6" shall be topsoil. All disturbed soil shall be finish graded and machine raked to achieve a uniform surface. This finish grade shall be free of rock and debris greater than 3/4" diameter, twigs, sticks, and other non-soil material and shall taper away from building.

CONDITIONS

01. It is the intent of these plans and specifications to describe a complete and finished project other than items marked "N.I.C." (not in contract).

02. The general contractor and subcontractor(s) shall verify all dimensions and job conditions at the job site sufficiently in advance of work to be performed to assure the orderly progress of the work.

03. The general contractor shall be responsible for the performance of all construction personnel on the site.

04. Code: All codes having jurisdiction shall be observed strictly in the construction or the project, including all applicable state, city and county building, zoning, electrical, mechanical, plumbing and fire codes. The general contractor shall verify all code requirements before commencement of construction and bring any discrepancies between code requirements and the construction documents to the attention of the architect.

05. Cleanup: The general contractor shall maintain the premises clean and free of all trash, debris and shall protect all adjacent work from damage, soiling, paint over-spray, etc. All fixtures, equipment, glazing, floors, etc. shall be left clean and ready for occupancy upon completion of the project.

06. The general contractor shall obtain all required building permits and agency approvals. The general contractor shall provide the owner with copies of permits, licenses, certifications, inspection reports, receipts for payment, and all similar documents.

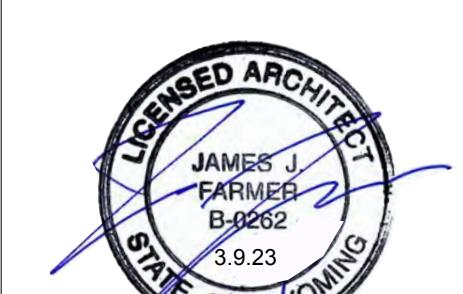
07. The presence of the architect on the job site does not imply approval of any work. The general contractor must call specific items to the attention of the architect if he wishes to obtain the architect's approval.

08. The general contractor shall submit all proposed substitutions in writing to the architect for approval with samples, cost analysis, and sufficient information for evaluation. If a revision or substitution is made without the architect's written approval that does not conform to the contract documents, it will relieve the architect of any liability from the resulting aesthetic effect, subsequent failure, property damage, or personal injury.

09. The general contractor shall perform a high quality, professional work. The work of each trade shall meet or exceed all quality

FARMER PAYNE
ARCHITECTS
Jackson Hole
260 West Broadway, Suite A
Jackson, WY 83001
T.307.264.0080
Sun Valley
351 Leavenworth Rd, Suite 204
Ketchum, ID 83355
T.208.214.5155
Louisiana
910 Pierremont Rd, Suite 410
Shreveport, LA 71106
T.318.383.3100

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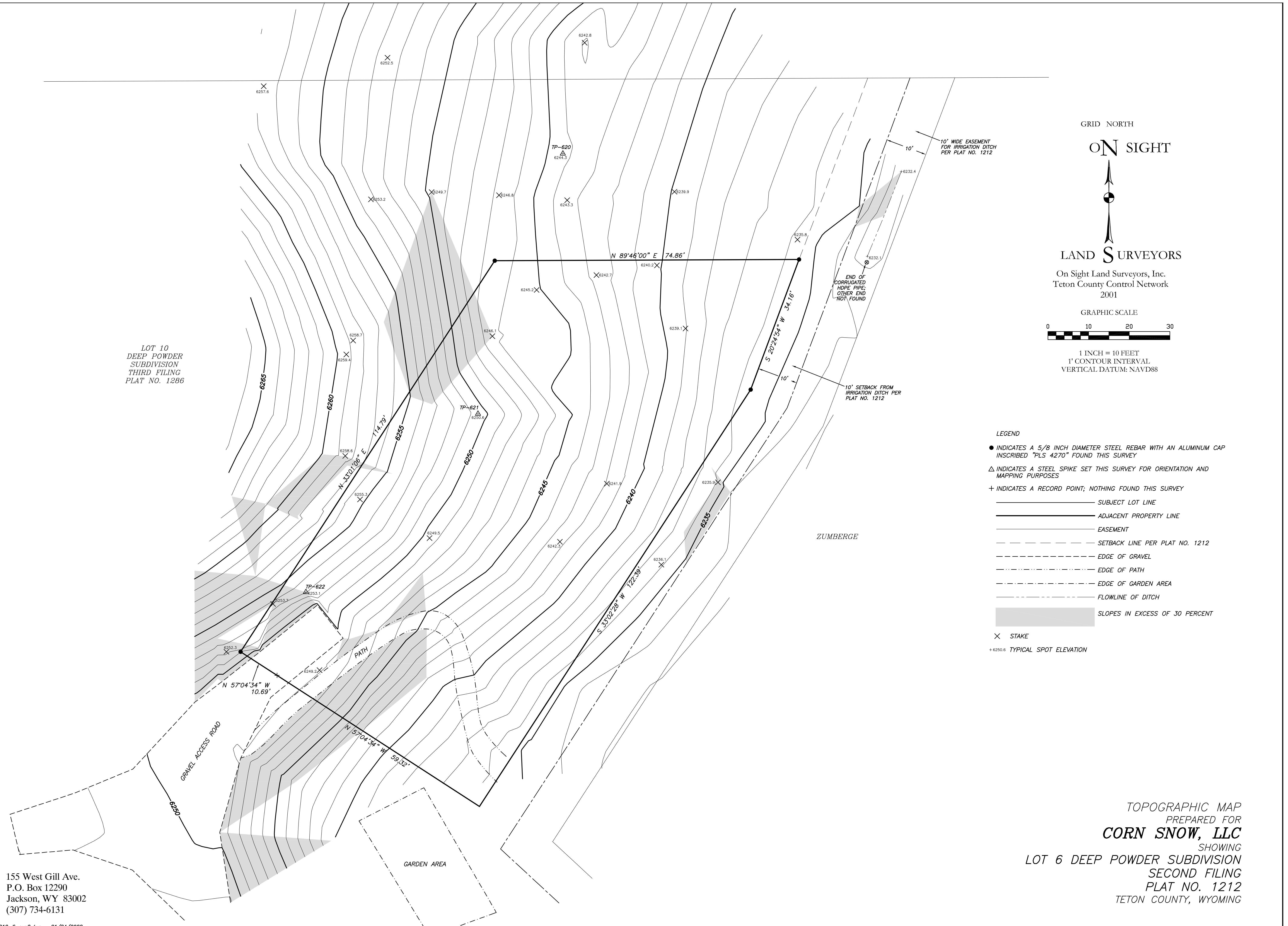
FOR CONSTRUCTION
BUILDING PERMIT

ROSCOE
RESIDENCE
6165 Burcher Rd
Wilson WY 83014

DATE: 3/9/23
PROJECT #: JH2203
DRAWN: RHW
ISSUE: Building Permit Set 3.9.23

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A101
General Notes & Drawing Index

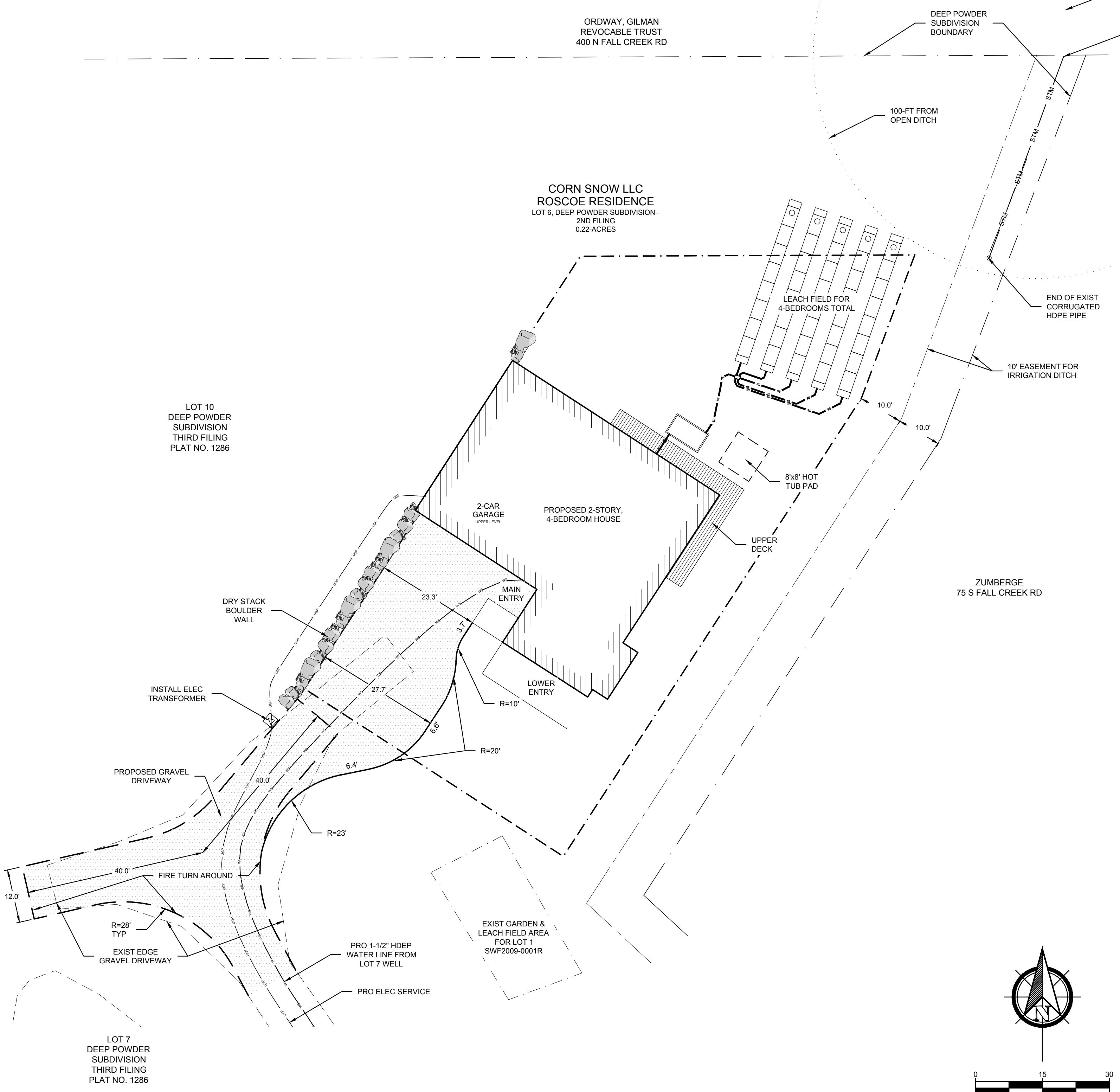


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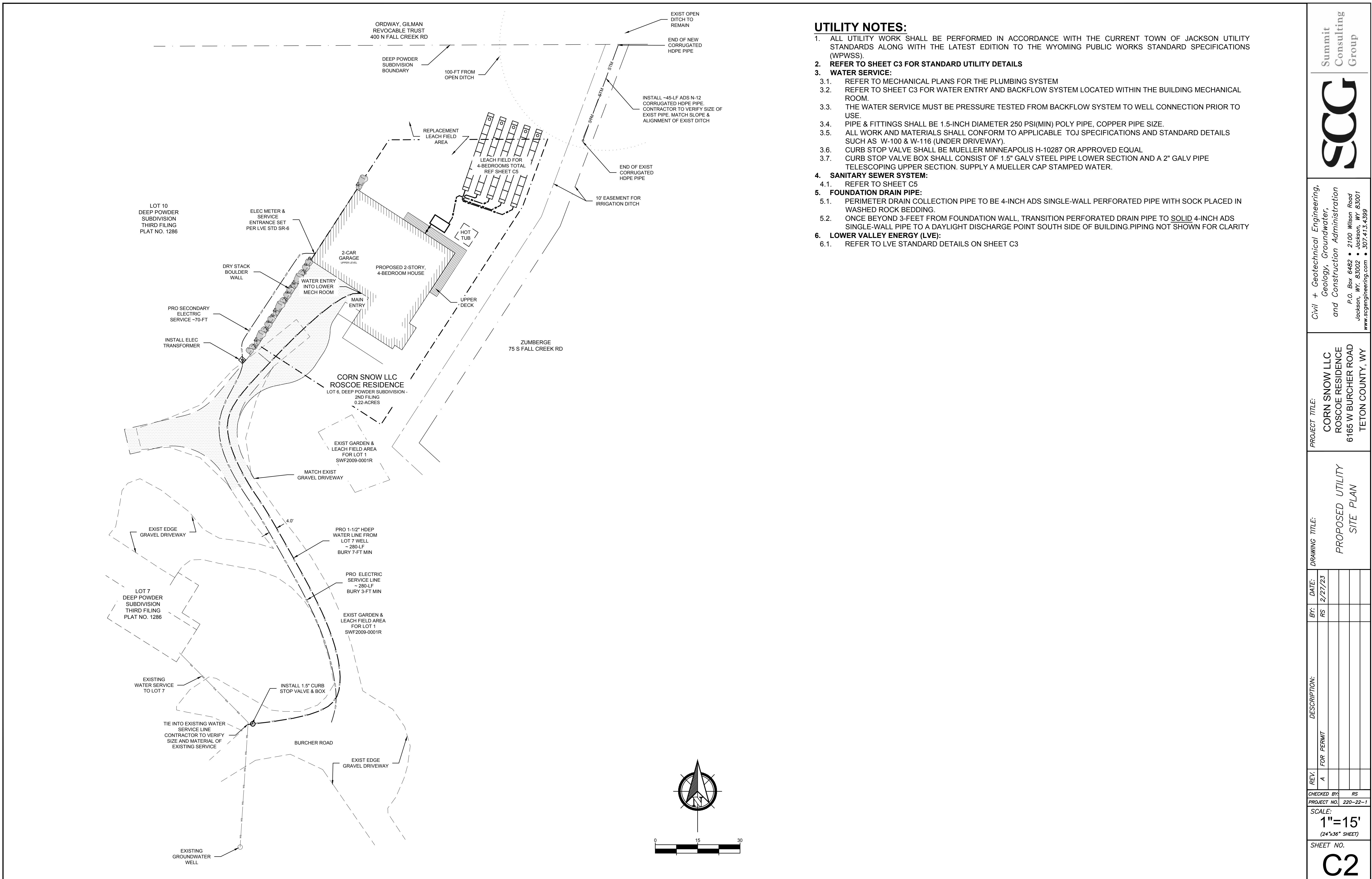
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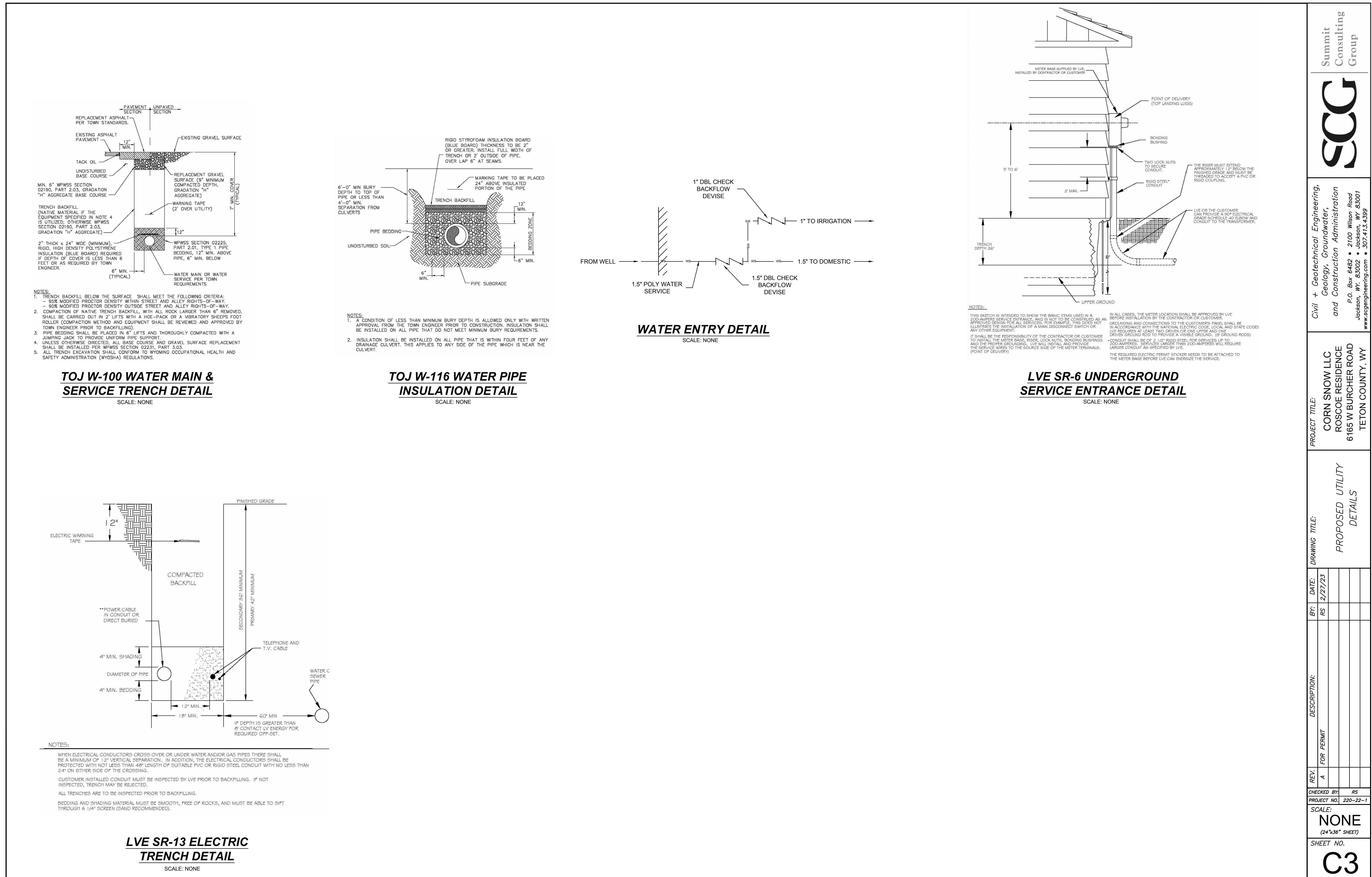
GENERAL PROJECT INFORMATION

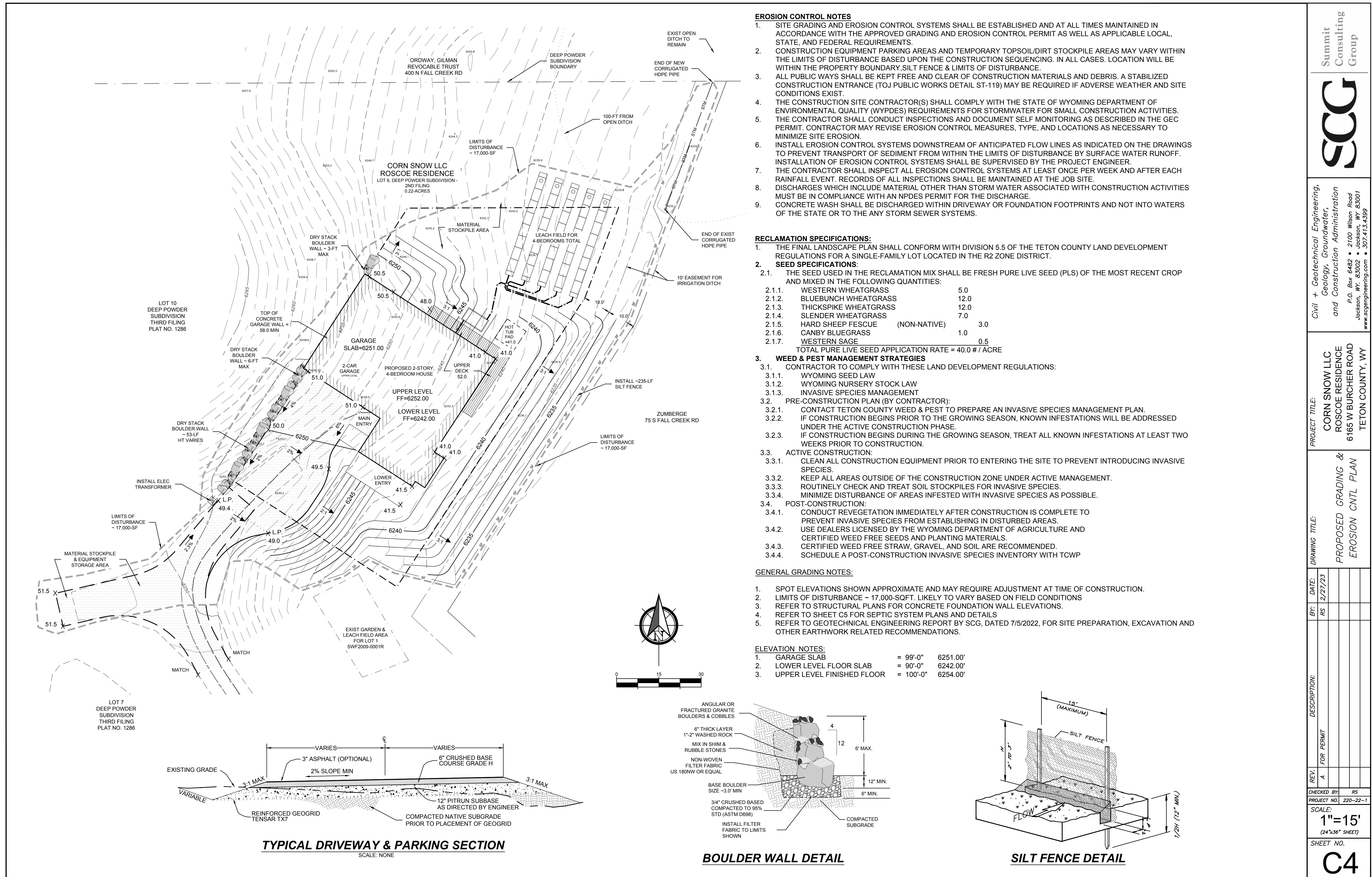
<p>OWNER CORN SNOW, LLC C/O ROSCOE RESIDENCE PO BOX 836 WILSON, WY 83014</p> <p>LOCATION LOT 6, DEEP POWDER SUBDIVISION, 2ND FILING PLAT NO. 1212 6165 W BURCHER ROAD TETON COUNTY, WY PIDN: 22-41-17-33-1-09-001</p> <p>SITE DATA GROSS SITE AREA = 0.22 AC PRIVATE SANITARY SEWER SYSTEM PRIVATE WATER SERVICE FROM LOT 7 WELL</p> <p>SETBACKS: N/A PER PLAT AND SUBDIVISION CC&Rs</p> <p>ZONING RURAL-3 (R3) LOT IS NOT WITHIN OVERLAY DISTRICTS NOT IN FEMA FLOOD ZONE NOT WITHIN LANDSLIDE ZONE PER TC GIS</p> <p>ARCHITECT FARMER PAYNE ARCHITECTS C/O RYAN WALTERS, AIA 260 WEST BROADWAY, SUITE A JACKSON, WY 83001 307.264.0080</p> <p>SURVEYOR ON SIGHT LAND SURVEYORS (ORIGINAL ECS) 1/24/22</p>	<p>SITE CONDITIONS VACANT SINGLE-FAMILY RESIDENTIAL LOT</p> <p>PROJECT SCOPE SITE EXCAVATION WORK - CLEARING, BULK EXCAVATION, CONSTRUCTION OF HOUSE & GARAGE NEW INSTALL SEPTIC SYSTEM & OTHER UTILITIES LANDSCAPING AND REVEGETATION</p> <p>PROJECT TIMELINE START EXCAVATION: SUMMER 2023 CONSTRUCT HOUSE: SUMMER 2023 - FALL 2024 LANDSCAPING & REVEG: FALL 2024</p>	<p>CORN SNOW LLC ROSCOE RESIDENCE 6165 W BURCHER ROAD TETON COUNTY, WY</p> <table border="1"> <thead> <tr> <th>REV:</th> <th>DESCRIPTION:</th> <th>BY:</th> <th>DATE:</th> <th>DRAWING TITLE:</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>FOR PERMIT</td> <td>RS</td> <td>2/27/23</td> <td>PROPOSED CONDITIONS SITE PLAN</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>CIVIL + Geotechnical Engineering, Geology, Groundwater, and Construction Administration P.O. Box 6482 • 2100 Wilson Road Jackson, WY 83002 • 307.413.4399 www.sccengineering.com</p>	REV:	DESCRIPTION:	BY:	DATE:	DRAWING TITLE:	A	FOR PERMIT	RS	2/27/23	PROPOSED CONDITIONS SITE PLAN																				
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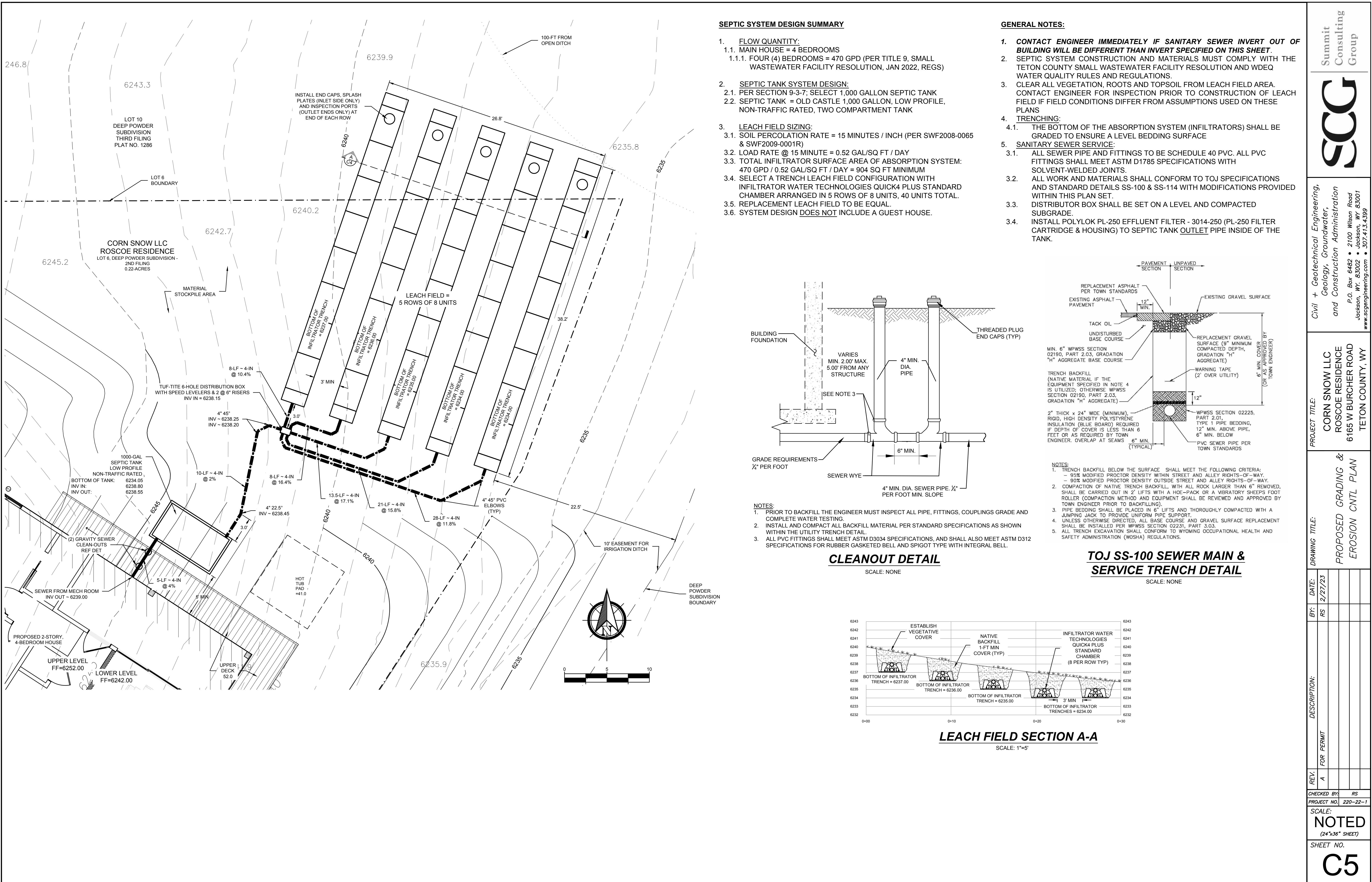


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Jackson, WY 83001
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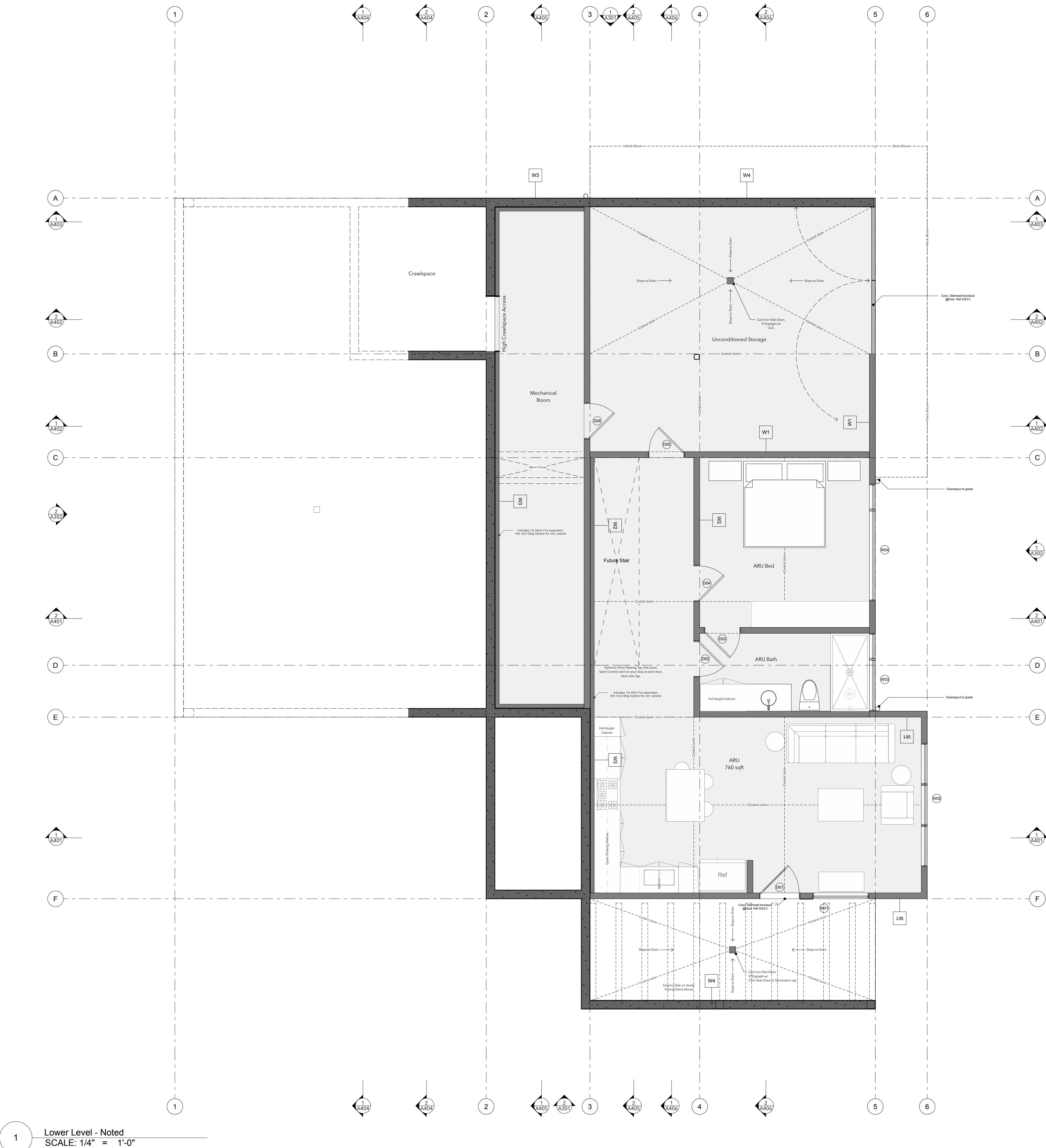
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**GENERAL PLAN NOTES**

01. Do not scale drawings. Contact Architect for any undocumented dimensions or clarification of any dimensional discrepancies. Large scale drawings take precedence over smaller scale drawings.

02. All dimensions are from gridline to centerline of structural columns, to centerline of windows and doors, or to face of stud walls.

03. All interior partitions are framed with 2x6 wood studs unless noted/dimensioned otherwise.

04. The Contractor shall coordinate the spacing of all ceiling and floor joists with lighting fixtures, mechanical openings, and any other potential conflict. (See Structural, Mechanical, Lighting, and Reflected Ceiling Plans)

05. Dimensions for windows and doors are shown to center of unit. Coordinate with schedules to determine rough opening dimensions.

06. Where shown, furniture is for reference only and not in contract.

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PROJECT #: JH2203
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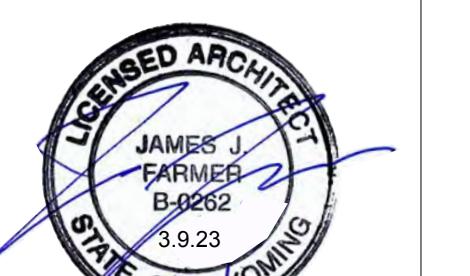
A201
Lower Level - Noted
N

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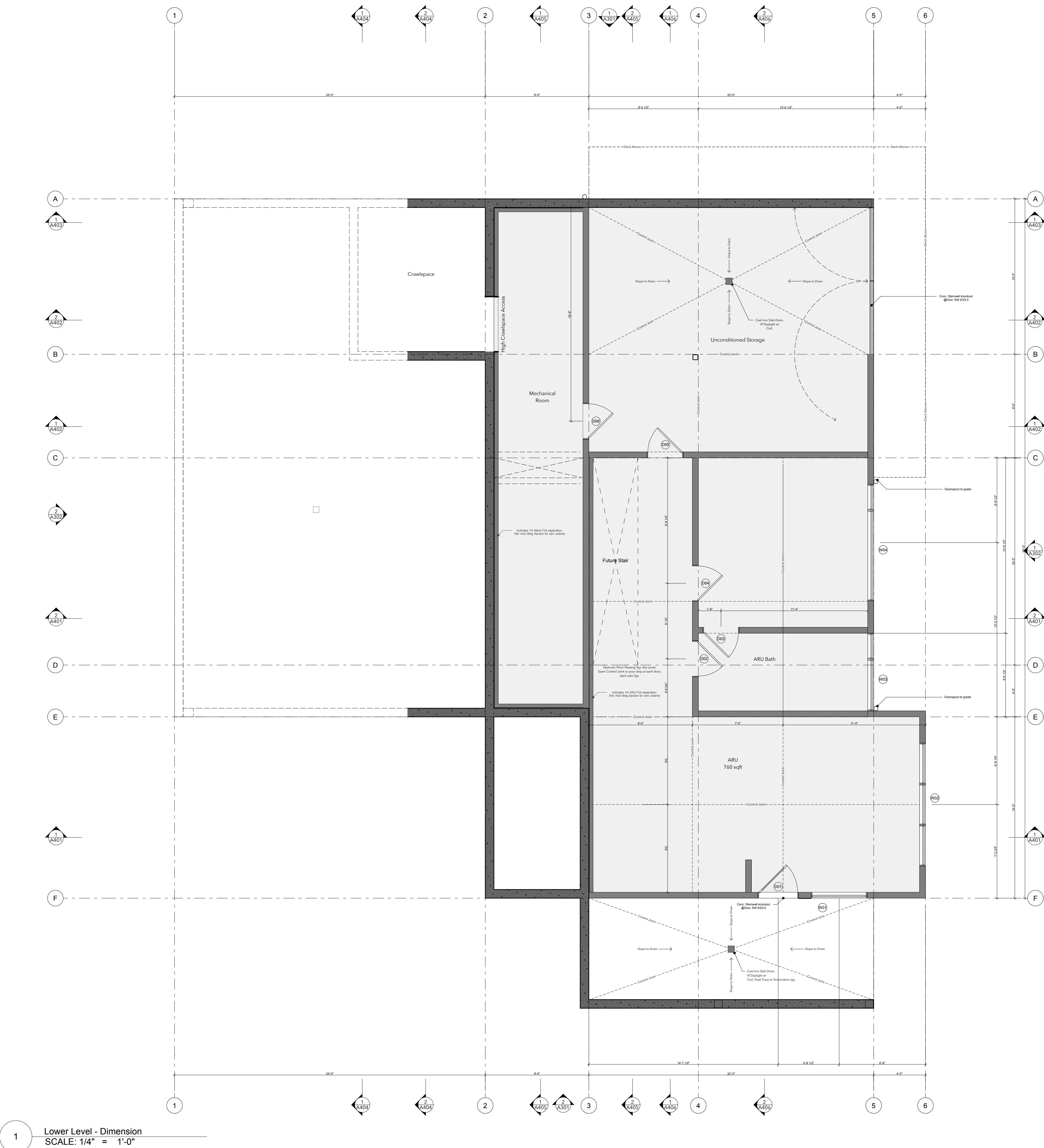
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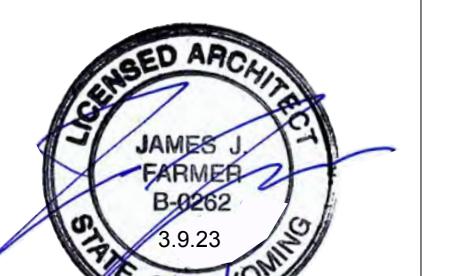


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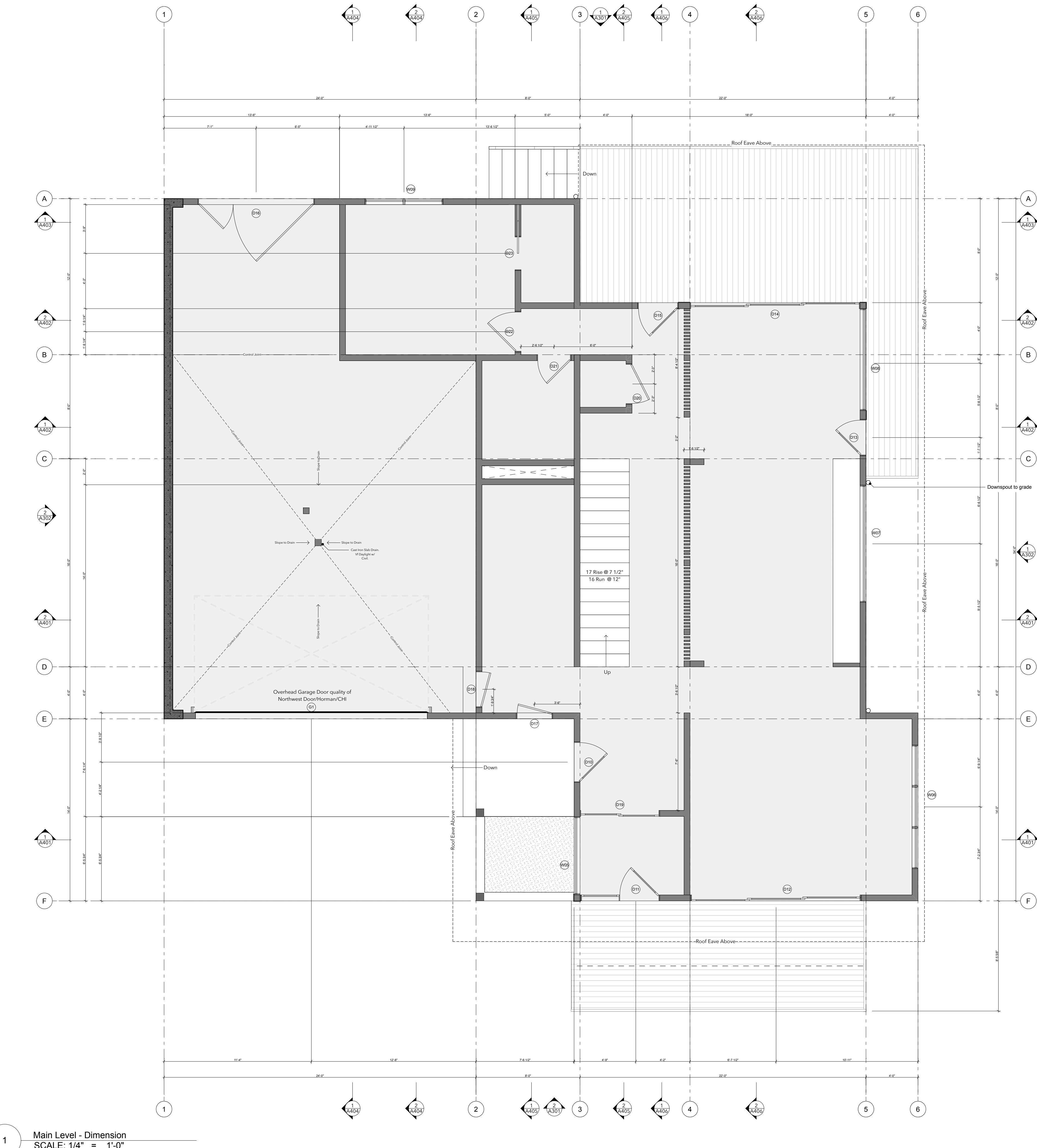
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A204

Main Level - Dimension



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260 West Broadway, Suite A

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Ketchum, ID 83340

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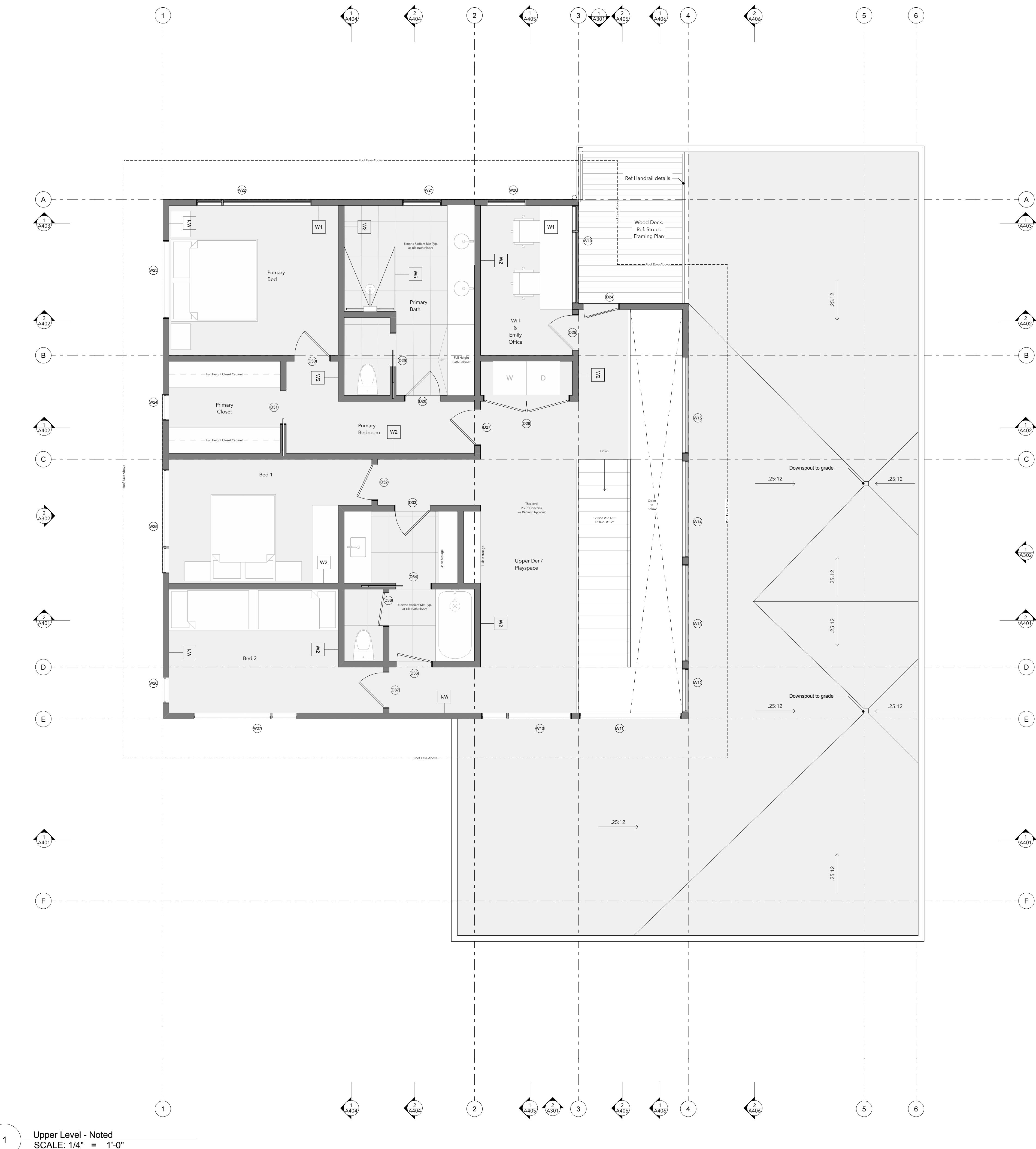
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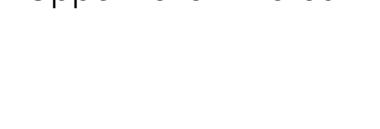
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A205

Upper Level - Noted



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260 West Broadway, Suite A

Jackson, WY 83001

1.307.264.0060

Sun Valley

351 N Lincoln Street, Suite 204

Ketchum, ID 83340

T.208.214.5155

Louisiana

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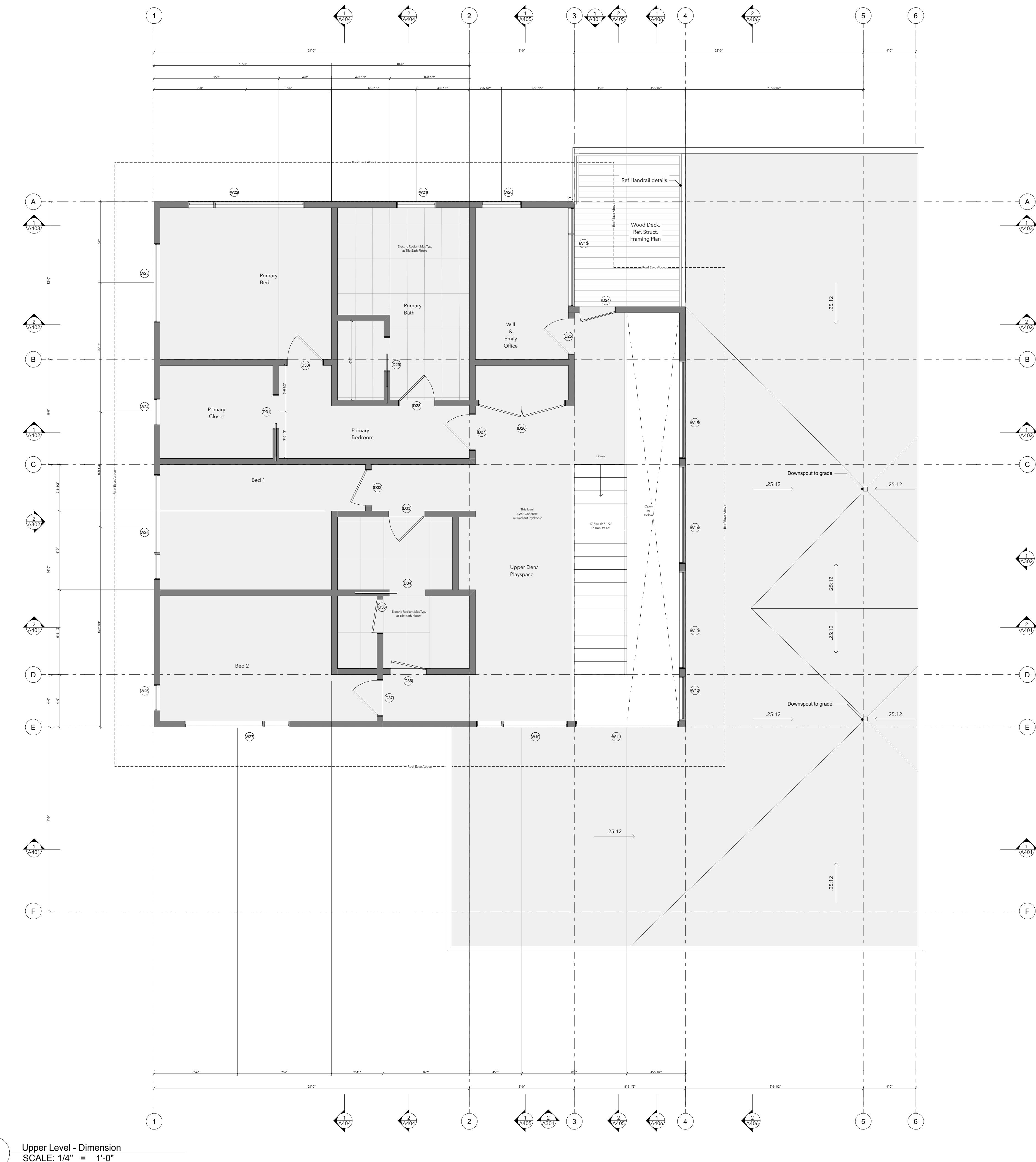
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A206

Upper Level - Dimension

N

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est Broadway, Suite A
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T 307.264.0080

Sun Valley
Leadville Ave, Suite 204
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(208) 214-5155

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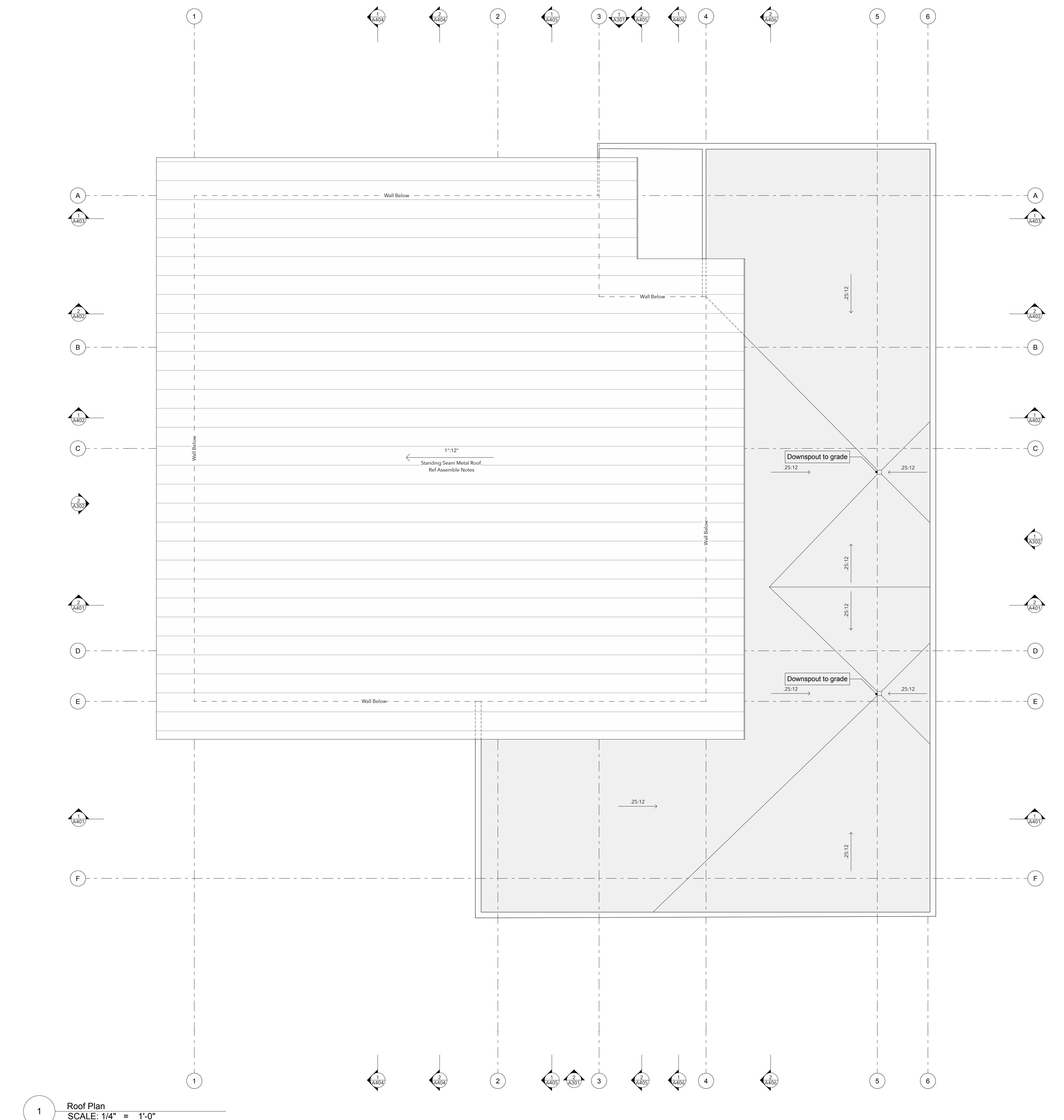
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WN:	RHW
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A207

Roof Plan

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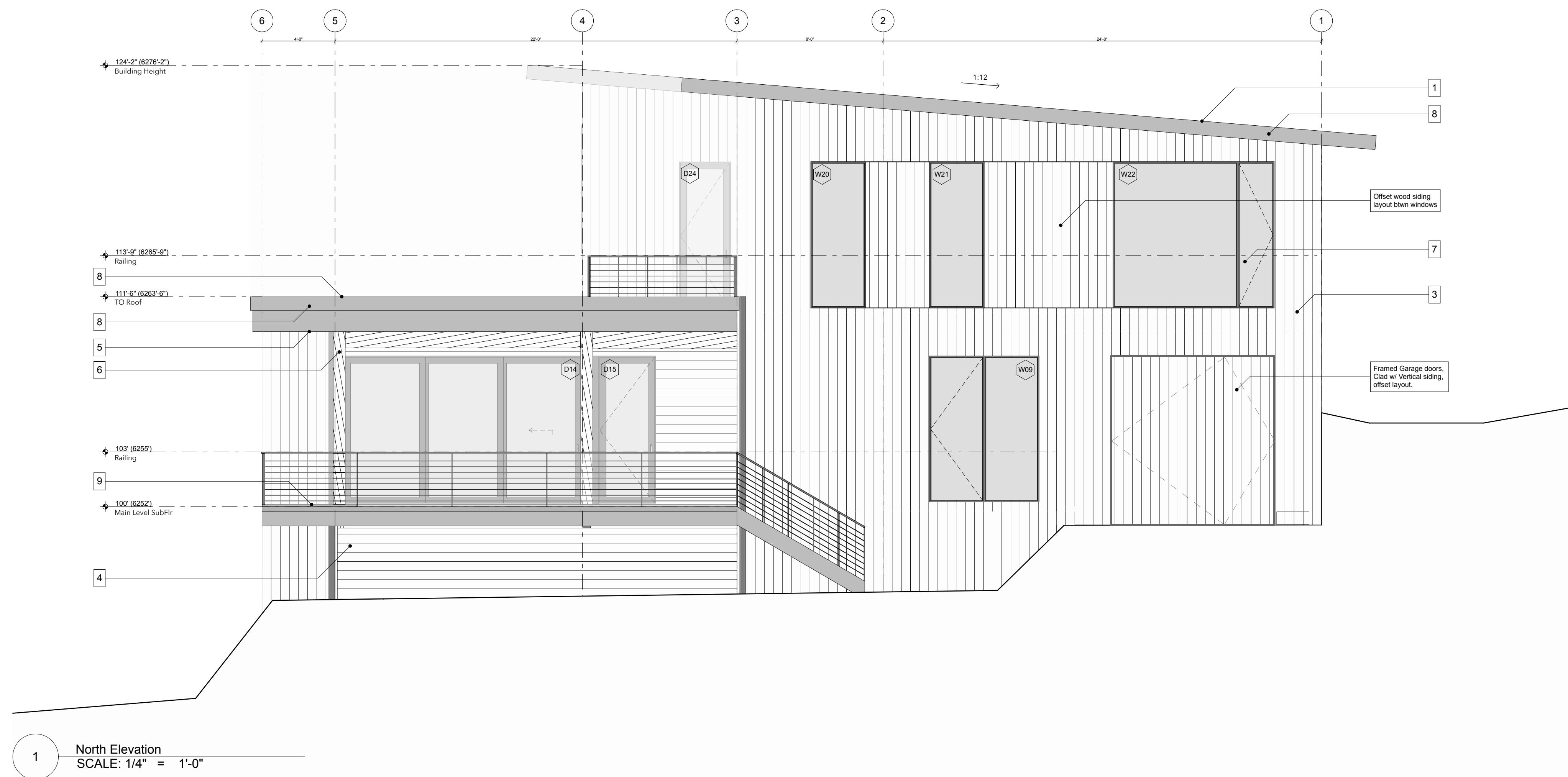
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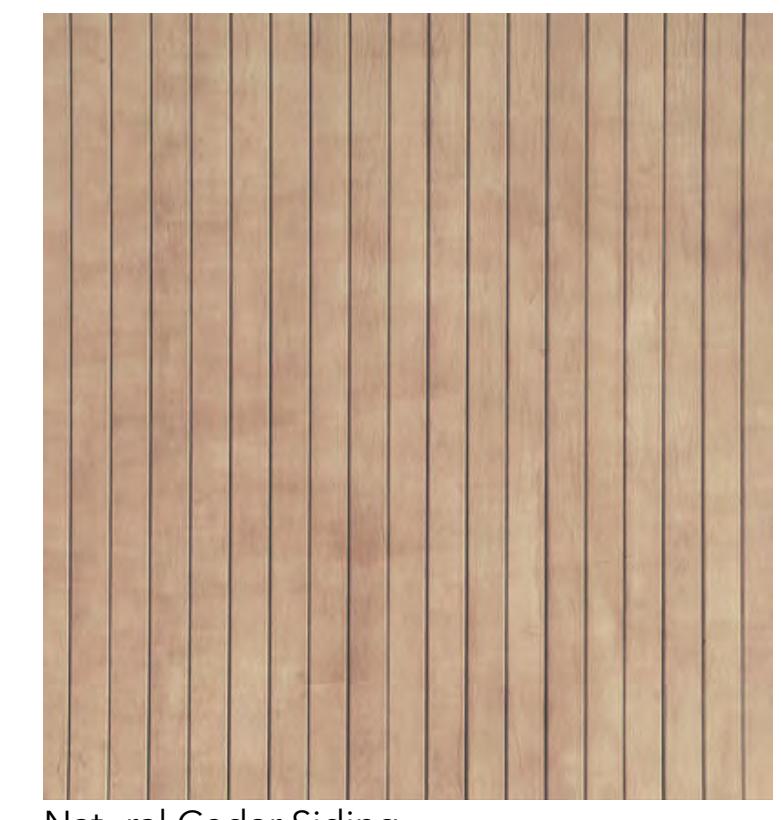
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ARCHITECT STAMP**FOR CONSTRUCTION**
BUILDING PERMIT**R O S C O E
R E S I D E N C E**6165 Burcher Rd
Wilson WY 83014

ELEVATION KEY NOTES	
1	Standing Seam Metal Roof
2	Membrane Roof, TPO over Tapered Foam
3	T&G Vertical Wood Siding
4	T&G Horizontal Wood Siding
5	T&G Wood Soffit
6	Sawn Timber Column/Beam per Struct
7	Aluminum Clad Wood Window / Door
8	Light Gauge Metal Fascia
9	AYC Wood Decking
10	Steel Guardrail. Powder Coat Finish

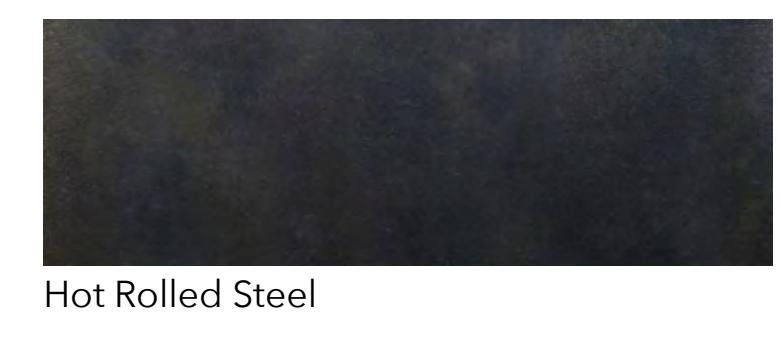
NOTE: ALL FINISHES TO BE APPROVED BY ARCHITECT THRU SUBMITTALS / SAMPLES, G.C. TO VERIFY WITH ARCHITECT BEFORE INSTALL, TYP.
NOTE: CHIMNEY AND MECHANICAL EXHAUST MUST BE FITTED W/ SPARK ARRESTOR



Natural Cedar Siding



Grey Cedar Siding



Hot Rolled Steel



Light Gauge Steel

DATE: 3/9/23
PROJECT #: JH2203
DRAWN: RHW
ISSUE: Building Permit Set 3.9.23

A301
North & South Elevations

Jackson Hole

260 West Broadway, Suite A
Jackson, WY 83001

T:307.264.0000

Sun Valley

351 N Lincoln Street, Suite 204
Ketchum, ID 83340

T:208.214.5155

Louisiana

910 Pierre du Bois Rd, Suite 410
Shreveport, LA 71106

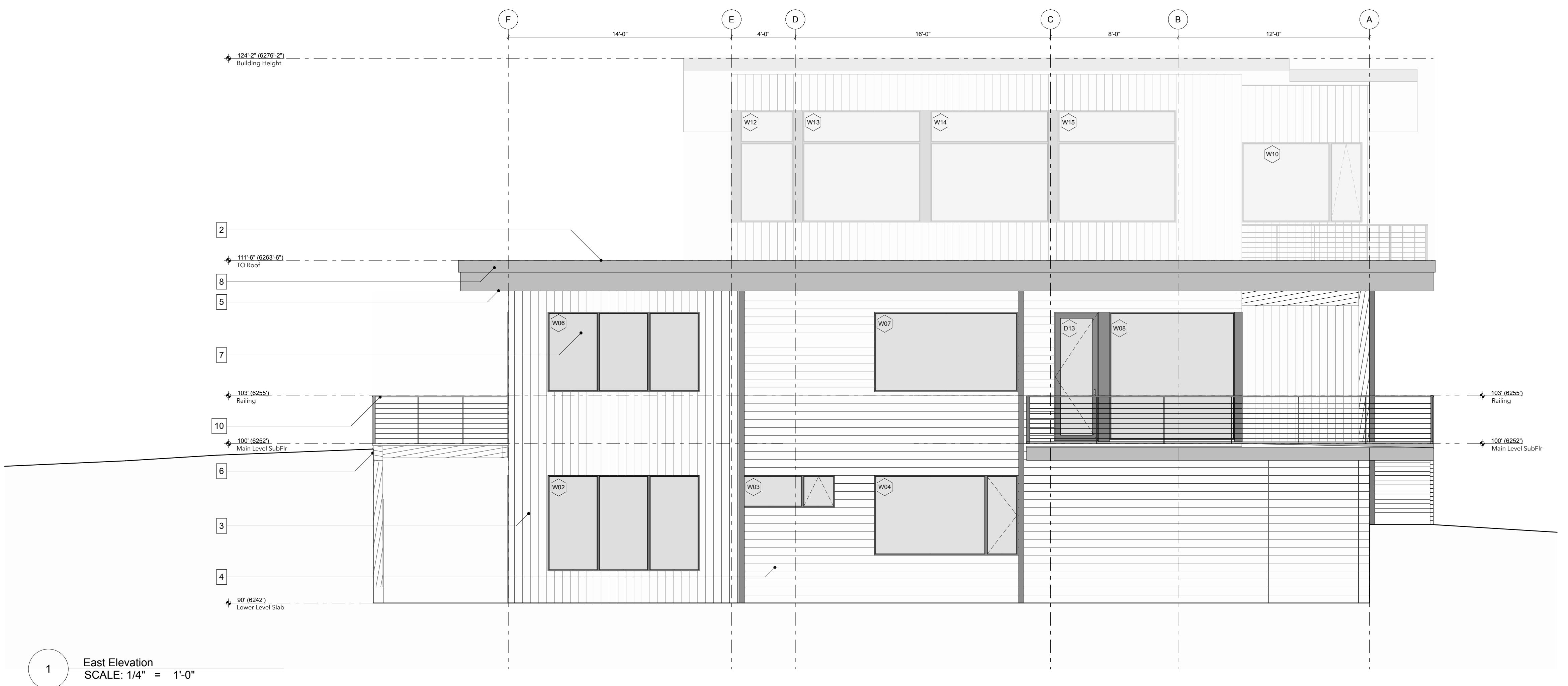
T:318.383.3100

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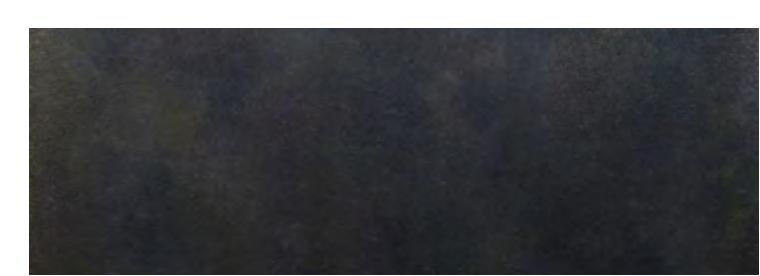
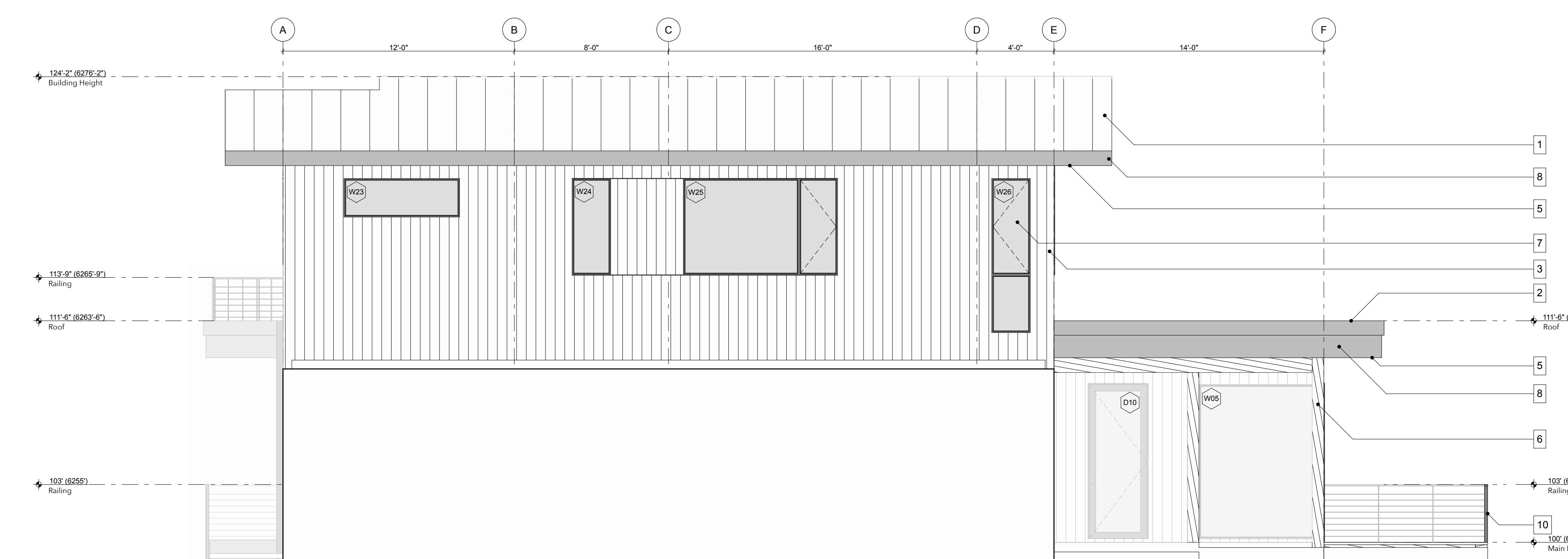
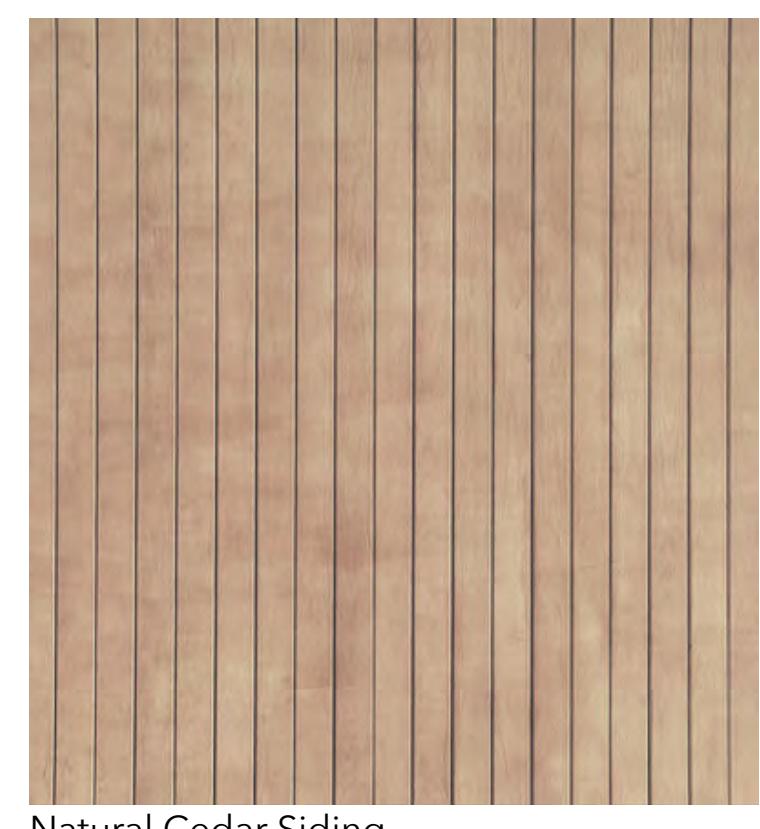
DATE: 3/9/23
PROJECT #: JH2203
DRAWN: RHW
ISSUE:
Building Permit Set 3.9.23

A302
East & West Elevations



ELEVATION KEY NOTES	
1	Standing Seam Metal Roof
2	Membrane Roof. TPO over Tapered Foam
3	T&G Vertical Wood Siding
4	T&G Horizontal Wood Siding
5	T&G Wood Soffit
6	Sawn Timber Column/Beam per Struct
7	Aluminum Clad Wood Window / Door
8	Light Gauge Metal Fascia
9	AYC Wood Decking
10	Steel Guardrail. Powder Coat Finish

NOTE: ALL FINISHES TO BE APPROVED BY ARCHITECT THRU SUBMITTALS / SAMPLES, G.C. TO VERIFY WITH ARCHITECT BEFORE INSTALL. TYP NOTE: CHIMNEY AND MECHANICAL EXHAUST MUST BE FITTED W/ SPARK ARRESTOR



Jackson Hole
260 West Broadway, Suite A
Jackson, WY 83001
T:307.264.0060

Sun Valley
351 Lincoln Street, Suite 204
Ketchum, ID 83340
T:208.214.5155

Louisiana
910 Pierremont Rd, Suite 410
Shreveport, LA 71106
T:318.383.3100

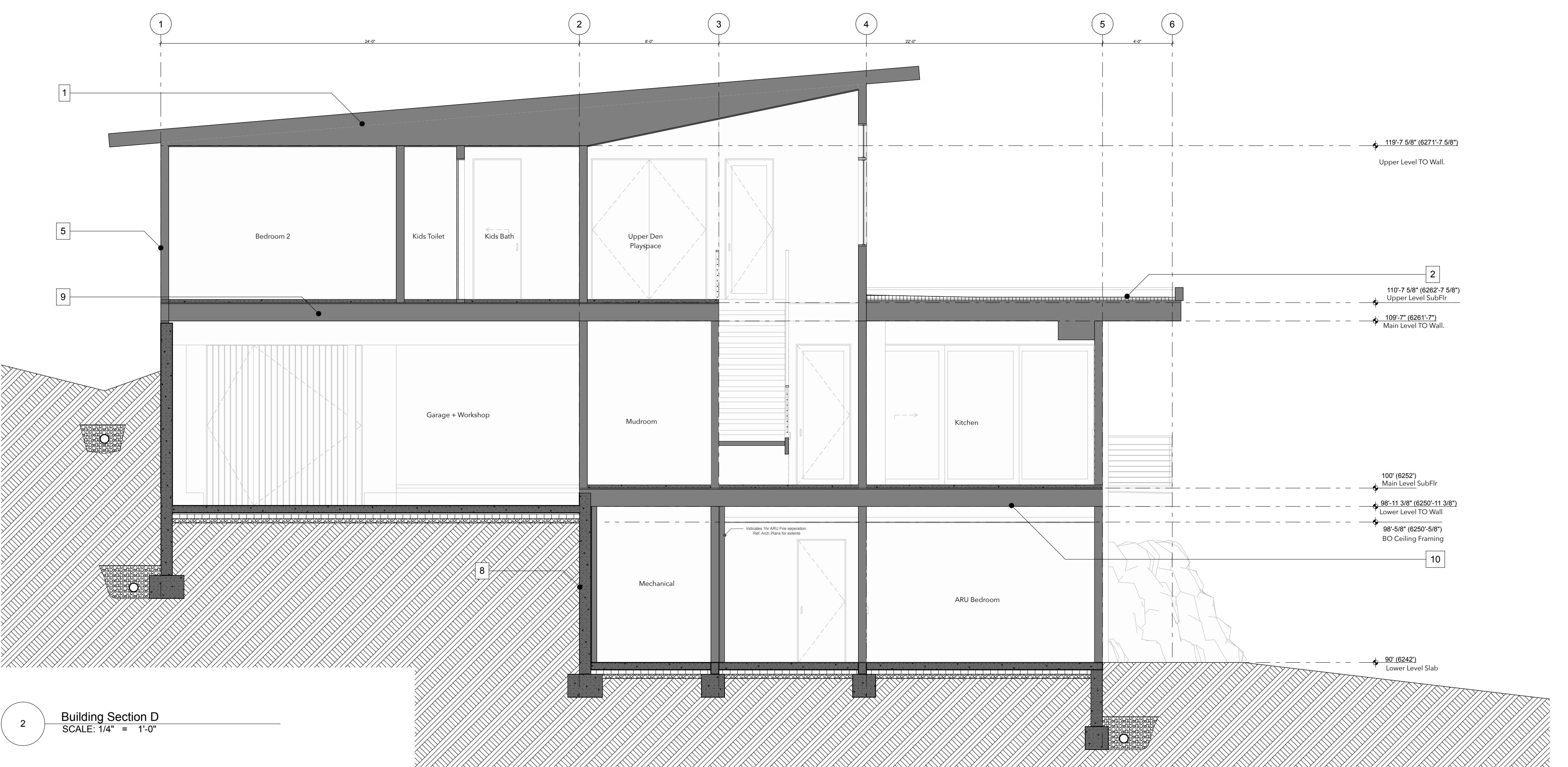
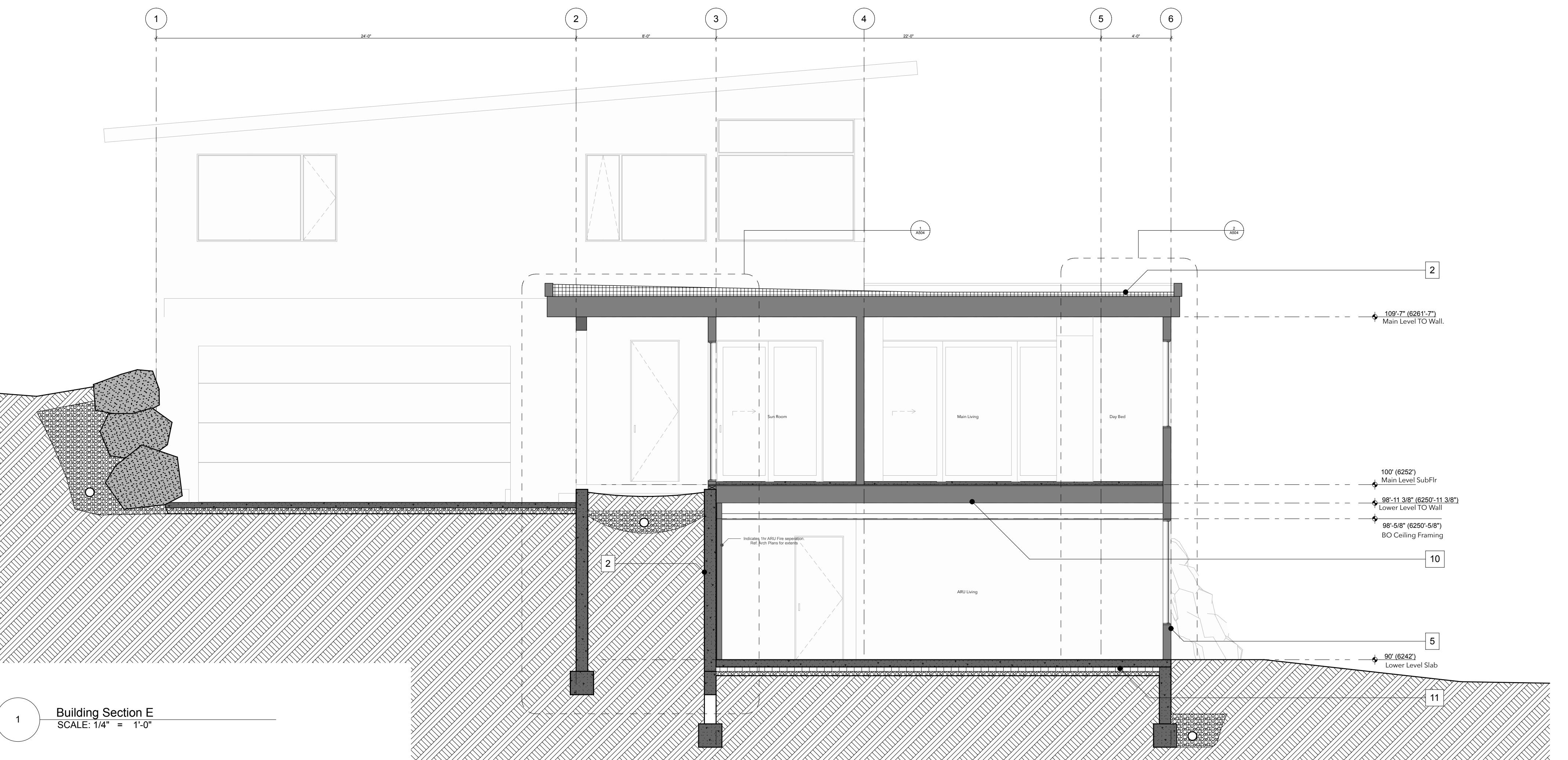
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BUILDING PERMIT

R O S C O E
R E S I D E N C E
6165 Burcher Rd
Wilson WY 83014

DATE: 3/9/23
PROJECT #: JH2203
DRAWN: RHW
ISSUE: Building Permit Set 3.9.23

A401
Building Sections

**ASSEMBLY NOTES**

1 **Shed Roof @ 1:12 Roof Pitch:**
Class A Rated Standing seam metal roofing, on High Temperature rated Ice & Water Shield Underlayment, on Plywood Sheathing, on pre-manufactured wood trusses (Re: Struct) w/ closed cell polyurethane spray foam insulation (R-50 Min) Ceiling Finish: Smooth Level 3 drywall finish, painted. Provide snow retention system to be coordinated with selected Gutter Contractor, and Roofing Sub Contractor. Provide heat cable at gutters, downspouts, and drainage paths. Assembly must meet WUI IR-1 requirements

2 **Flat Roof @ Parapet Roof:**
Class A Rated EPDM/TPO membrane roofing, on tapered rigid insulation (1/2" min.) w/ 0.25:12 slope, on plywood roof sheathing, on I joist framing, Re: Struct., w/ closed cell polyurethane spray foam insulation (R-50 min) Ceiling Finish: Smooth Level 3 drywall finish, painted. See roof plan for roof slope and drain/downdrain locations. Provide heat cable at all downspouts and scuppers. Assembly must meet WUI IR-1 requirements

3 **Flat Roof @ Decks:**
2x decking, on reverse tapered 2x joists, on Class A Rated EPDM membrane roofing, on plywood roof sheathing, on tapered LVL joist framing w/ 0.25:12 slope, Re: Struct., w/ closed cell polyurethane spray foam insulation (R-50 Min). Provide perimeter gutter per plan & provide heat cable at gutter, downspout, and drainage paths. Assembly must meet WUI IR-1 requirements

4 **Exterior Decks :**
2x6 Alaskan Yellow Cedar, on Heavy timber framing, Re: Struct for layout & Sizing, Re: Arch Details for railings.

5 **Exterior Wall Framing @ Steel Siding:**
16ga Metal Siding, (Vi: extends w/ owner), over Furring Strips, UV Batten or similar, with 2" Rigid Foam insulation (R-5), on drain wrap/weather barrier, on exterior sheathing, on wood stud wall framing, Re: Struct, w/ 3" closed cell polyurethane spray foam insulation (R-20 min). Wall Finish: Smooth Level 3 drywall finish, painted. Assembly must meet WUI IR-1 requirements

6 **Exterior Wall Framing @ Horizontal Wood Siding:**
2x Horizontal studs, (Vi: extends w/ owner), over Furring Strips, UV Batten or similar, with 2" Rigid Foam insulation, on drain wrap/weather barrier, on exterior sheathing, on wood stud wall framing, Re: Struct, w/ 3" closed cell polyurethane spray foam insulation (R-20 min). Wall Finish: Smooth Level 3 drywall finish, painted. Assembly must meet WUI IR-1 requirements

7 **Interior Wall Framing:**
2x stud wall, Re: Struct., w/ Smooth Level 3 drywall finish, painted. Fire tape @ Garage, Mechanical space, and Apartment Units.

8 **Foundation Wall, Typ:**
2' Extruded polystyrene insulation (R-10), on Fluid Applied waterproofing, on Foundation/ Retaining Wall, RE: Struct.

Above grade: Provide Metal flashing over drainage/protection/insulation board.

@ Garage/Basement: Provide 2x4 fur wall, w/ closed cell polyurethane spray foam insulation (R-20 min). Wall Finish: Smooth Level 3 drywall finish, painted

9 **Upper Floor Assembly:**
Flooring (See Finish Schedule) on plywood sheathing, on Engineering joists floor framing, RE: Struct., with sound batt insulation. Ceiling Finish: Smooth Level 3 drywall finish, painted. Fire tape @ Garage, Mechanical space, and Apartment Units.

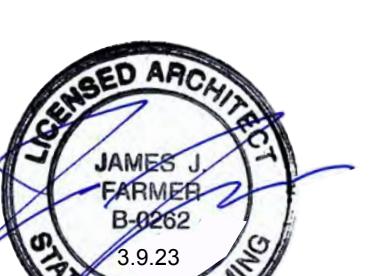
10 **Main Floor Assembly / 1HR Fire Assembly:**
2 1/4" Concrete slab, (Vi: extend w/ owner), integrated radiant hydronic tubing, control joints per plan, Vi decorative additional points w/ owner, on plywood sheathing, on engineering floor joist, with 5/8" Type X gypsum board, 12" dropped ceiling framed w/ 2x4, 5/8" Type X gypsum board. RE: Struct., with sound batt insulation.

11 **Basement Floor Assembly:**
Finish Floor Material (See Finish Schedule), on 5" Reinforced Concrete Slab (See Struct.) w/ integrated radiant hydronic tubing, sawn control joints per plan, on Vapor Barrier, on 3" Rigid Insulation (R-15), on 6" Gravel Fill (No Fines).

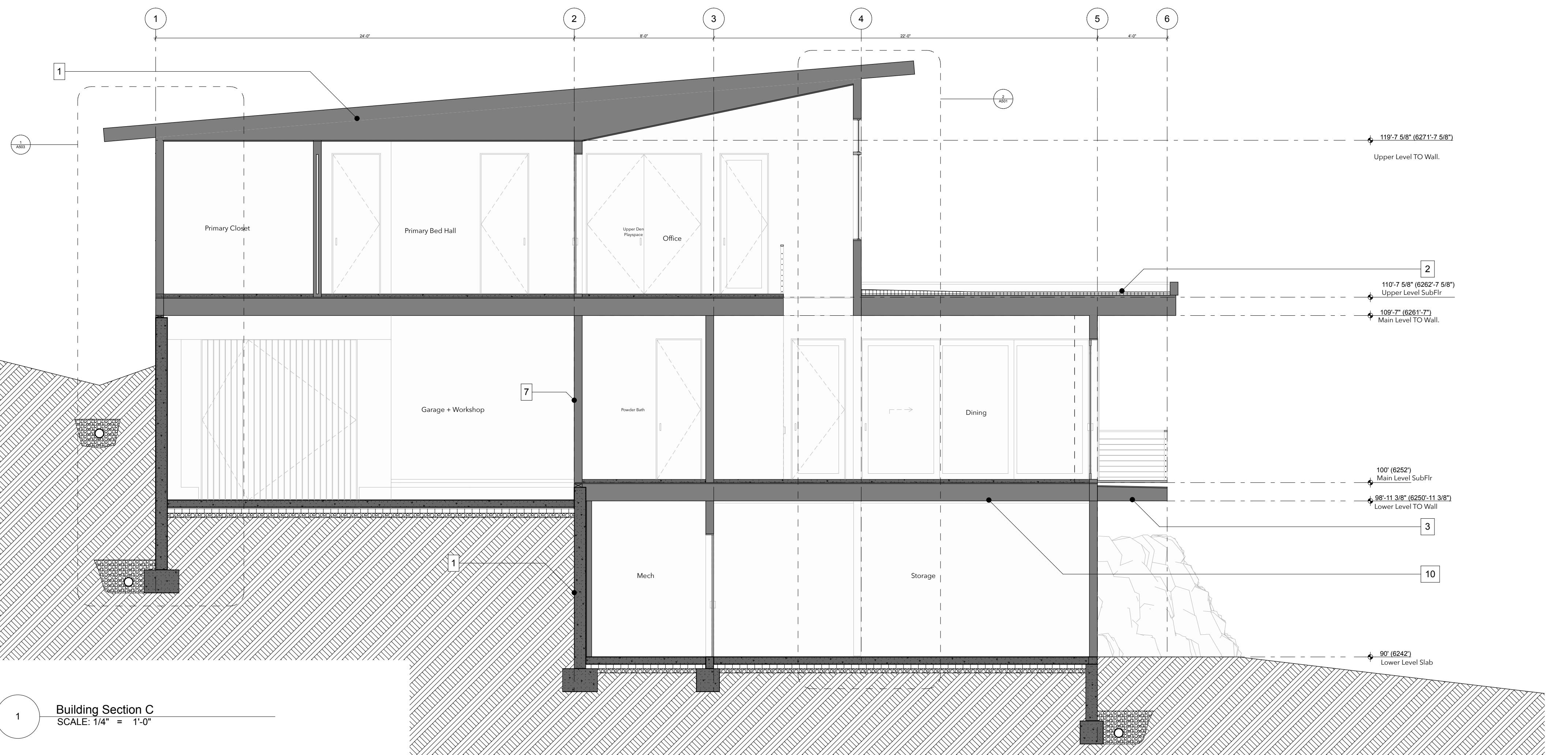
12 **Garage Floor Assembly:**
Reinforced Concrete Slab (See Struct.) w/ integrated radiant hydronic tubing, sawn control joints per plan on Vapor Barrier, on 3" Rigid Insulation (R-15), on 6" Gravel Fill (No Fines).

13 **Deck (Typ.):**
2x6 alaskan yellow cedar decking, on Wood Joists RE: Struct, with corrugated steel soffit. Assembly must meet WUI IR-1 requirements

14 **Exterior Slab on Grade:**
4" Concrete, Over 8 Mil Vapor Barrier (Taped & Sealed), Over Washed Rock, Over Compacted Base



DATE: 3/9/23
PROJECT #: JH2203
DRAWN: RHW
ISSUE: Building Permit Set 3.9.23



ASSEMBLY NOTES

- 1** **Shed Roof @ 1:12 Roof Pitch:** Class A Rated Standing seam metal roofing, on High Temperature rated Ice & Water Shield Underlayment, on Plywood Sheathing, on pre-manufactured wood trusses (Re: Struct) w/ closed cell polyurethane spray foam insulation (R-50 Min) Ceiling Finish: Smooth Level 3 drywall finish, painted. Provide snow retention system to be coordinated with timber frame contractor, and Roofing Sub Contractor. Provide heat cable at gutters, downspouts, and drainage paths. Assembly must meet WUI IR-1 requirements

- 2** **Flat Roof @ Parapet Roof:** Class A Rated EPDM/TPO membrane roofing, on tapered rigid insulation (1/2" min.) w/ 0.25:12 slope, on plywood roof sheathing, on I joist framing, Re: Struct., w/ closed cell polyurethane spray foam insulation (R-50 min) Ceiling Finish: Smooth Level 3 drywall finish, painted. See roof plan for roof slope and drain/downdrain locations. Provide heat cable at all downspouts and scuppers. Assembly must meet WUI IR-1 requirements

- 3** **Flat Roof @ Decks:** 2x decking, on reverse tapered 2x joists, on Class A Rated EPDM membrane roofing, on plywood roof sheathing, on tapered LVL joist framing w/ 0.25:12 slope, Re: Struct., w/ closed cell polyurethane spray foam insulation (R-50 Min.) Provide perimeter gutter per plan & provide heat cable at gutter, downspout, and drainage paths. Assembly must meet WUI IR-1 requirements

- 4** **Exterior Decks :** 2x6 Alaskan Yellow Cedar, on Heavy timber framing, Re: Struct for layout & Sizing, Re: Arch Details for railings.

- 5** **Exterior Wall Framing @ Steel Siding:** 16ga Metal Siding, (Vi: extends w/ owner), over Furring Strips, UV Batten or similar, with 2" Rigid Foam insulation (R-5), on drain wrap/weather barrier, on exterior sheathing, on wood stud wall framing, Re: Struct, w/ 3" closed cell polyurethane spray foam insulation (R-20 min). Wall Finish: Smooth Level 3 drywall finish, painted. Assembly must meet WUI IR-1 requirements

- 6** **Exterior Wall Framing @ Horizontal Wood Siding:** 2x Horizontal studs, 16ga Metal Siding, over Furring Strips, UV Batten or similar, with 2" Rigid Foam insulation, on drain wrap/weather barrier, on exterior sheathing, on wood stud wall framing, Re: Struct, w/ 3" closed cell polyurethane spray foam insulation (R-20 min), Wall Finish: Smooth Level 3 drywall finish, painted. Assembly must meet WUI IR-1 requirements

- 7** **Interior Wall Framing:** 2x stud wall, Re: Struct., w/ Smooth Level 3 drywall finish, painted. Fire tape @ Garage, Mechanical space, and Apartment Units.

- 8** **Foundation Wall, Typ:** 2' Extruded polystyrene insulation (R-10), on Fluid Applied waterproofing, on Foundation/ Retaining Wall, RE: Struct.

- Above grade: Provide Metal flashing over drainage/protection/insulation board. @ Garage/Basement: Provide 2x4 fur wall, w/ closed cell polyurethane spray foam insulation (R-20 min). Wall Finish: Smooth Level 3 drywall finish, painted

- 9** **Upper Floor Assembly:** Flooring (See Finish Schedule) on plywood sheathing, on Engineering joists floor framing, RE: Struct., with sound batt insulation. Ceiling Finish: Smooth Level 3 drywall finish, painted. Fire tape @ Garage, Mechanical space, and Apartment Units.

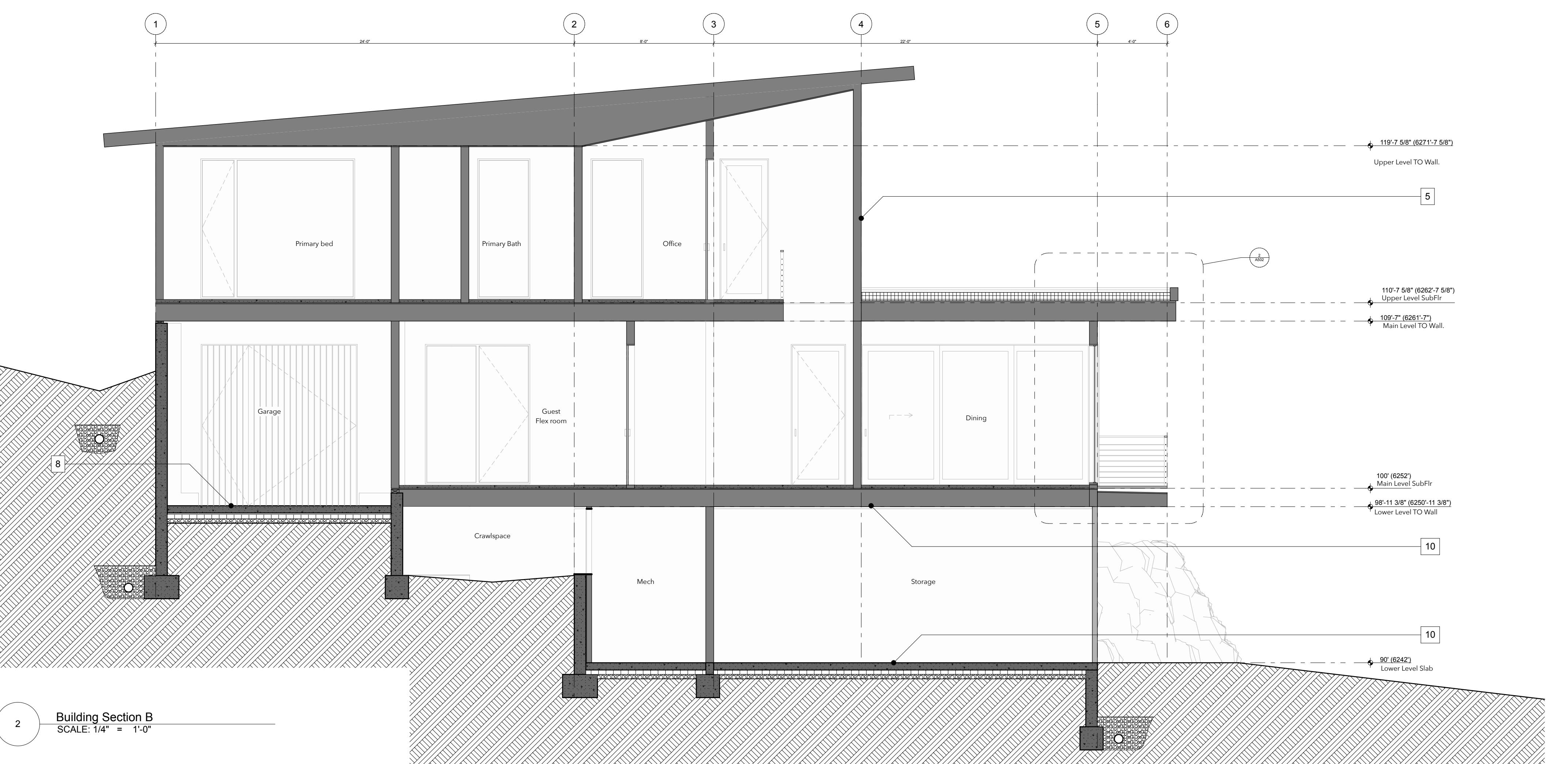
- 10** **Main Floor Assembly / 1HR Fire Assembly:** 2 1/4" Concrete slab, (Vi: extend w/ owner), integrated radiant hydronic tubing, control joints per Plan, Vi decorative additional points w/ owner, on plywood sheathing, on engineering floor joist, with 5/8" Type X gypsum board, 12" dropped ceiling framed w/ 2x4, 5/8" Type X gypsum board. RE: Struct., with sound batt insulation.

- 11** **Basement Floor Assembly:** Finish Floor Material (See Finish Schedule), on 5" Reinforced Concrete Slab (See Struct.) w/ integrated radiant hydronic tubing, sawn control joints per plan, on Vapor Barrier, on 3" Rigid Insulation (R-15), on 6" Gravel Fill (No Fines).

- 12** **Garage Floor Assembly:** Reinforced Concrete Slab (See Struct.) w/ integrated radiant hydronic tubing, sawn control joints per plan, on Vapor Barrier, on 3" Rigid Insulation (R-15), on 6" Gravel Fill (No Fines).

- 13** **Deck (Typ.):** 2x6 alaskan yellow cedar decking, on Wood Joists RE: Struct, with corrugated steel soffit. Assembly must meet WUI IR-1 requirements

- 14** **Exterior Slab on Grade:** 4" Concrete, Over 8 Mil Vapor Barrier (Taped & Sealed), Over Washed Rock, Over Compacted Base



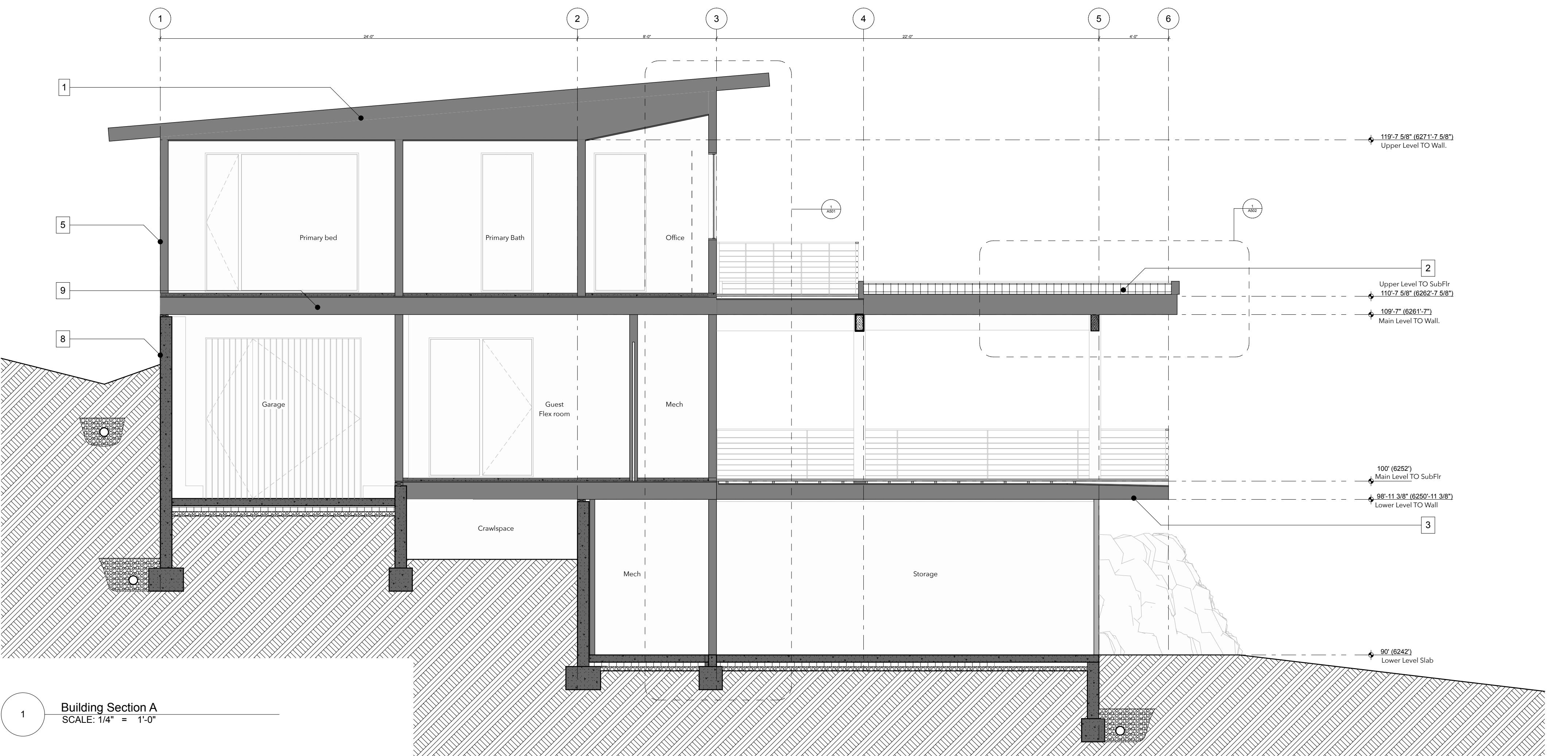
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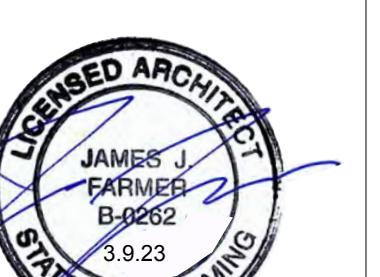
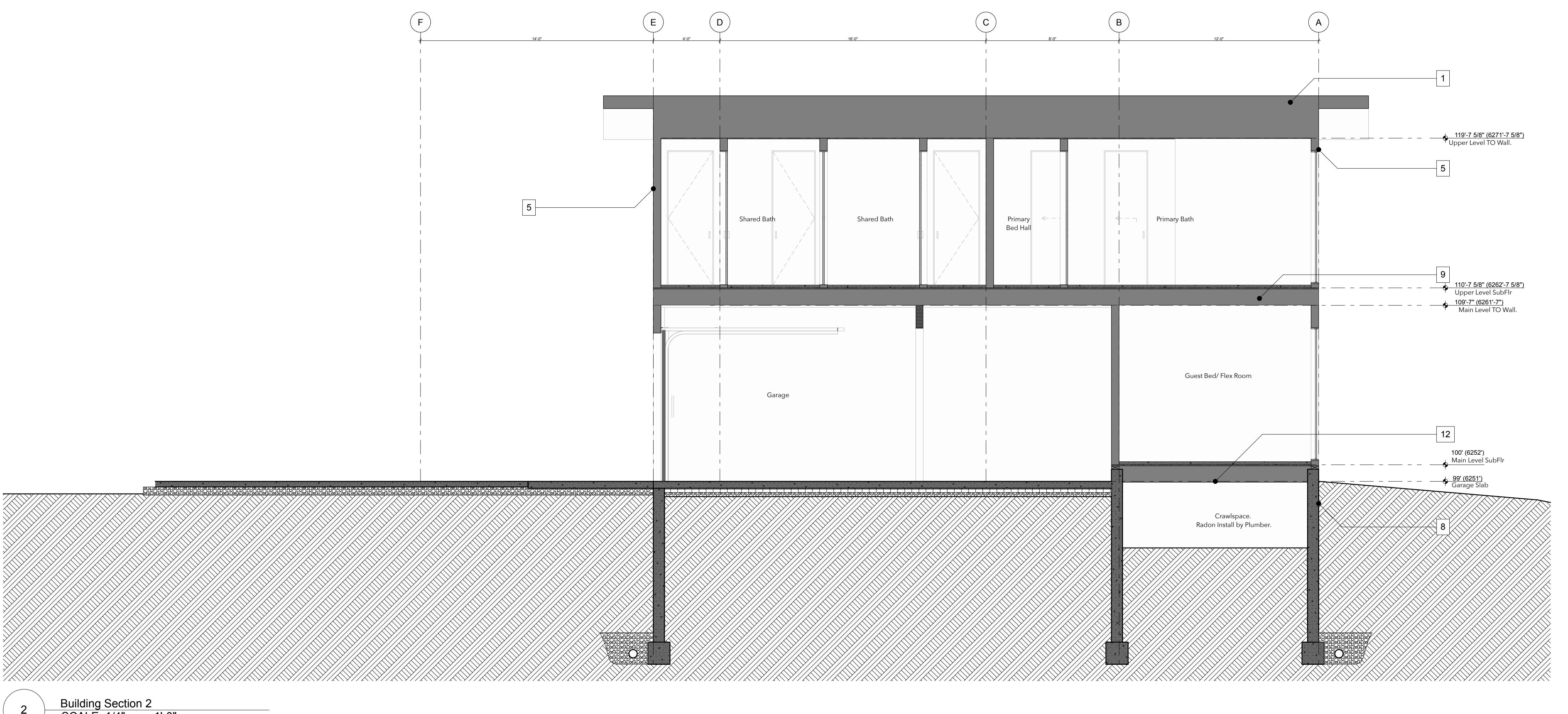
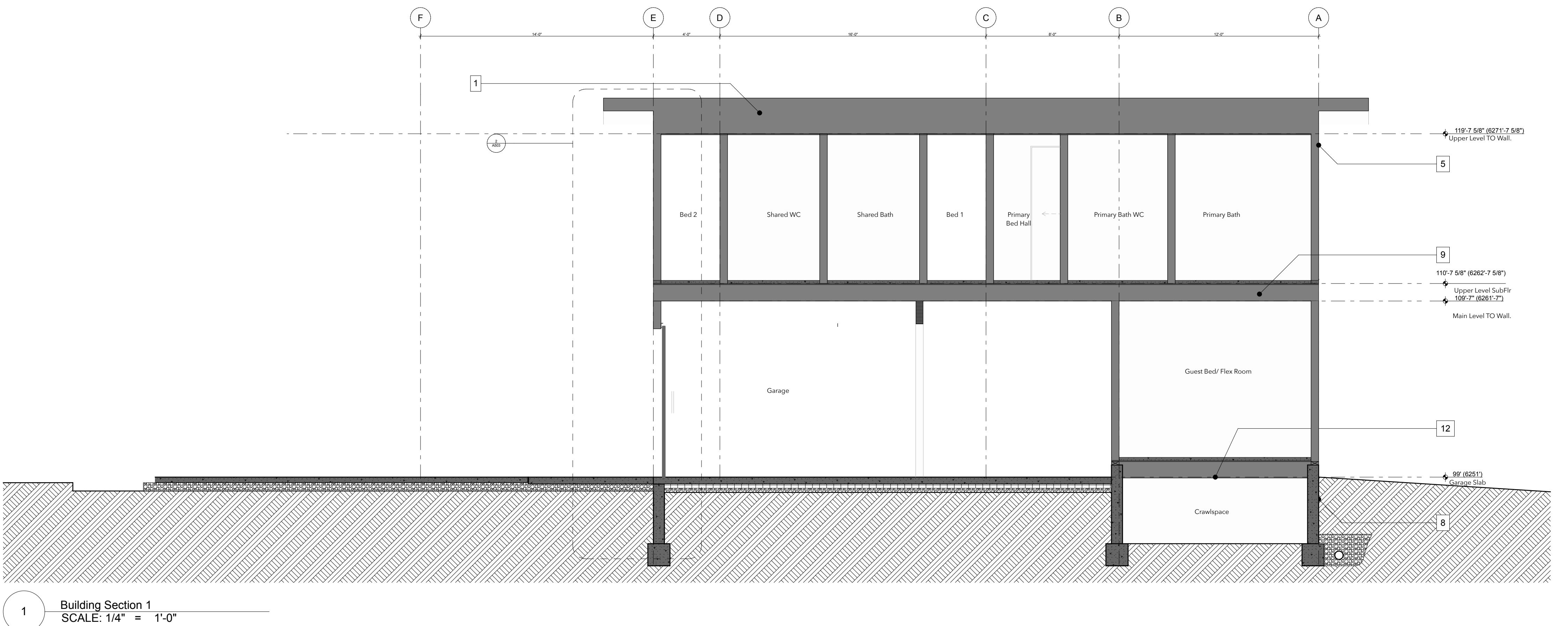
6165 Burcher Rd
Wilson WY 83014

**ASSEMBLY NOTES**

- 1** **Shed Roof @ 1:12 Roof Pitch:** Class A Rated Standing seam metal roofing, on High Temperature rated Ice & Water Shield Underlayment, on Plywood Sheathing, on pre-manufactured wood trusses (Re: Struct) w/ closed cell polyurethane spray foam insulation (R-50 Min) Ceiling Finish: Smooth Level 3 drywall finish, painted. Provide snow retention system to be coordinated with timber frame contractor, and Roofing Sub Contractor. Provide heat cable at gutters, downspouts, and drainage paths. **Assembly must meet WUI IR-1 requirements**
- 2** **Flat Roof @ Parapet Roof:** Class A Rated EPDM/TPO membrane roofing, on tapered rigid insulation (1/2" min.) w/ 0.25:12 slope, on plywood roof sheathing, on I joist framing, Re: Struct., w/ closed cell polyurethane spray foam insulation (R-50 min) Ceiling Finish: Smooth Level 3 drywall finish, painted. See roof plan for roof slope and drain/downdrain locations. Provide heat cable at all downspouts and scuppers. **Assembly must meet WUI IR-1 requirements**
- 3** **Flat Roof @ Decks:** 2x decking, on reverse tapered 2x joists, on Class A Rated EPDM membrane roofing, on plywood roof sheathing, on tapered LVL joist framing w/ 0.25:12 slope, Re: Struct., w/ closed cell polyurethane spray foam insulation (R-50 Min). Provide perimeter gutter per plan & provide heat cable at gutter, downspout, and drainage paths. **Assembly must meet WUI IR-1 requirements**
- 4** **Exterior Decks :** 2x6 Alaskan Yellow Cedar, on Heavy timber framing, Re: Struct for layout & Sizing, Re: Arch Details for railings.
- 5** **Exterior Wall Framing @ Steel Siding:** 16ga Metal Siding, (Vi: extends w/ owner), over Furring Strips, UV Batten or similar, with 2" Rigid Foam insulation (R-5), on drain wrap/weather barrier, on exterior sheathing, on wood stud wall framing, Re: Struct, w/ 3" closed cell polyurethane spray foam insulation (R-20 min). Wall Finish: Smooth Level 3 drywall finish, painted. **Assembly must meet WUI IR-1 requirements**
- 6** **Exterior Wall Framing @ Horizontal Wood Siding:** 2x Horizontal studs, 1/2" thick, over Furring Strips, UV Batten or similar, with 2" Rigid Foam insulation, on drain wrap/weather barrier, on exterior sheathing, on wood stud wall framing, Re: Struct, w/ 3" closed cell polyurethane spray foam insulation (R-20 min). Wall Finish: Smooth Level 3 drywall finish, painted. **Assembly must meet WUI IR-1 requirements**
- 7** **Interior Wall Framing:** 2x stud wall, Re: Struct., w/ Smooth Level 3 drywall finish, painted. Fire tape @ Garage, Mechanical space, and Apartment Units.
- 8** **Foundation Wall, Typ:** 2' Extruded polystyrene insulation (R-10), on Fluid Applied waterproofing, on Foundation/ Retaining Wall, RE: Struct. Above grade: Provide Metal flashing over drainage/protection/insulation board. @ Garage/Basement: Provide 2x4 fur wall, w/ closed cell polyurethane spray foam insulation (R-20 min.). Wall Finish: Smooth Level 3 drywall finish, painted.
- 9** **Upper Floor Assembly:** Flooring (See Finish Schedule) on plywood sheathing, on Engineering joists floor framing, RE: Struct., with sound batt insulation. Ceiling Finish: Smooth Level 3 drywall finish, painted. Fire tape @ Garage, Mechanical space, and Apartment Units.
- 10** **Main Floor Assembly / 1HR Fire Assembly:** 2 1/4" Concrete slab, (Vi: finish w/ owner), integrated radiant hydronic tubing, control joints per Plan, Vi decorative additional points w/ owner on plywood sheathing, on engineering floor joist, with 5/8" Type X gypsum board, 12" dropped ceiling framed w/ 2x4, 5/8" Type X gypsum board, RE: Struct., with sound batt insulation.
- 11** **Basement Floor Assembly:** Finish Floor Material (See Finish Schedule), on 5" Reinforced Concrete Slab (See Struct.) w/ integrated radiant hydronic tubing, sawn control joints per plan, on Vapor Barrier, on 3" Rigid Insulation (R-15), on 6" Gravel Fill (No Fines).
- 12** **Garage Floor Assembly:** Reinforced Concrete Slab (See Struct.) w/ integrated radiant hydronic tubing, sawn control joints per plan on Vapor Barrier, on 3" Rigid Insulation (R-15), on 6" Gravel Fill (No Fines).
- 13** **Deck (Typ.):** 2x6 alaskan yellow cedar decking, on Wood Joists RE: Struct., with corrugated steel soffit. **Assembly must meet WUI IR-1 requirements**
- 14** **Exterior Slab on Grade:** 4" Concrete, Over 8 Mil Vapor Barrier (Taped & Sealed), Over Washed Rock, Over Compacted Base

2
Assembly Key Notes
SCALE: 1/4" = 1'-0"

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R E S I D E N C E**6165 Burcher Rd
Wilson WY 83014**ASSEMBLY NOTES**

1 **Shed Roof @ 1:12 Roof Pitch:**
Class A Rated Standing seam metal roofing, on High Temperature rated Ice & Water Shield Underlayment, on Plywood Sheathing, on pre-manufactured wood trusses (Re: Struct) w/ closed cell polyurethane spray foam insulation (R-50 Min) Ceiling Finish: Smooth Level 3 drywall finish, painted. Provide snow retention system to be coordinated with contractor. Gutter Contractor, and Roofing Sub Contractor. Provide heat cable at gutters, downspouts, and drainage paths. Assembly must meet WUI IR-1 requirements

2 **Flat Roof @ Parapet Roof:**
Class A Rated EPDM/TPO membrane roofing, on tapered rigid insulation (1/2" min.) w/ 0.25:12 slope, on plywood roof sheathing, on l joist framing, Re: Struct., w/ closed cell polyurethane spray foam insulation (R-50 Min) Ceiling Finish: Smooth Level 3 drywall finish, painted. See roof plan for roof slope and downspout locations. Provide heat cable at all downspouts and soffits. Assembly must meet WUI IR-1 requirements

3 **Flat Roof @ Decks:**
2x decking, on reverse tapered 2x joists, on Class A Rated EPDM membrane roofing, on plywood roof sheathing, on tapered LVL joist framing w/ 0.25:12 slope, Re: Struct., w/ closed cell polyurethane spray foam insulation (R-50 Min.) Provide perimeter gutter per plan & provide heat cable at gutter, downspout, and drainage paths. Assembly must meet WUI IR-1 requirements

4 **Exterior Decks :**
2x6 Alaskan Yellow Cedar, on Heavy timber framing, Re: Struct for layout & Sizing, Re: Arch Details for railings.

5 **Exterior Wall Framing @ Steel Siding:**
16ga Metal Siding, (Vi: extends w/ owner), over Furring Strips, UV Batten or similar, with 2" Rigid Foam insulation (R-5), on drain wrap/weather barrier, on exterior sheathing, on wood stud wall framing, Re: Struct, w/ 3" closed cell polyurethane spray foam insulation (R-20 min). Wall Finish: Smooth Level 3 drywall finish, painted. Assembly must meet WUI IR-1 requirements

6 **Exterior Wall Framing @ Horizontal Wood Siding:**
2x Horizontal studs (Vi: extends w/ owner) over Furring Strips, UV Batten or similar, with 2" Rigid Foam insulation (R-5), on drain wrap/weather barrier, on exterior sheathing, on wood stud wall framing, Re: Struct, w/ 3" closed cell polyurethane spray foam insulation (R-20 min). Wall Finish: Smooth Level 3 drywall finish, painted. Assembly must meet WUI IR-1 requirements

7 **Interior Wall Framing:**
2x stud wall, Re: Struct, w/ Smooth Level 3 drywall finish, painted. Fire tape @ Garage, Mechanical space, and Apartment Units.

8 **Foundation Wall, Typ:**
2' Extruded polystyrene insulation (R-10), on Fluid Applied waterproofing, on Foundation/ Retaining Wall, RE: Struct.

Above grade: Provide Metal flashing over drainage/protection/insulation board.

@ Garage/Basement: Provide 2x4 fur wall, w/ closed cell polyurethane spray foam insulation (R-20 min.). Wall Finish: Smooth Level 3 drywall finish, painted.

9 **Upper Floor Assembly:**
Flooring (See Finish Schedule) on plywood sheathing, on Engineering joists floor framing, RE: Struct., with sound batt insulation. Ceiling Finish: Smooth Level 3 drywall finish, painted. Fire tape @ Garage, Mechanical space, and Apartment Units.

10 **Main Floor Assembly / 1HR Fire Assembly:**
2 1/4" Concrete slab, (Vi: extend w/ owner) integrated radiant hydronic tubing, control joints per plan, Vi decorative additional points w/ owner, on plywood sheathing, on engineering floor joist, with 5/8" Type X gypsum board, 12" dropped ceiling framed w/ 2x4, 5/8" Type X gypsum board. RE: Struct., with sound batt insulation.

11 **Basement Floor Assembly:**
Finish Floor Material (See Finish Schedule), on 5" Reinforced Concrete Slab (See Struct.) w/ integrated radiant hydronic tubing, sawn control joints per plan, on Vapor Barrier, on 3" Rigid Insulation (R-15), on 6" Gravel Fill (No Fines).

12 **Garage Floor Assembly:**
Reinforced Concrete Slab (See Struct.) w/ integrated radiant hydronic tubing, sawn control joints per plan on Vapor Barrier, on 3" Rigid Insulation (R-15), on 6" Gravel Fill (No Fines).

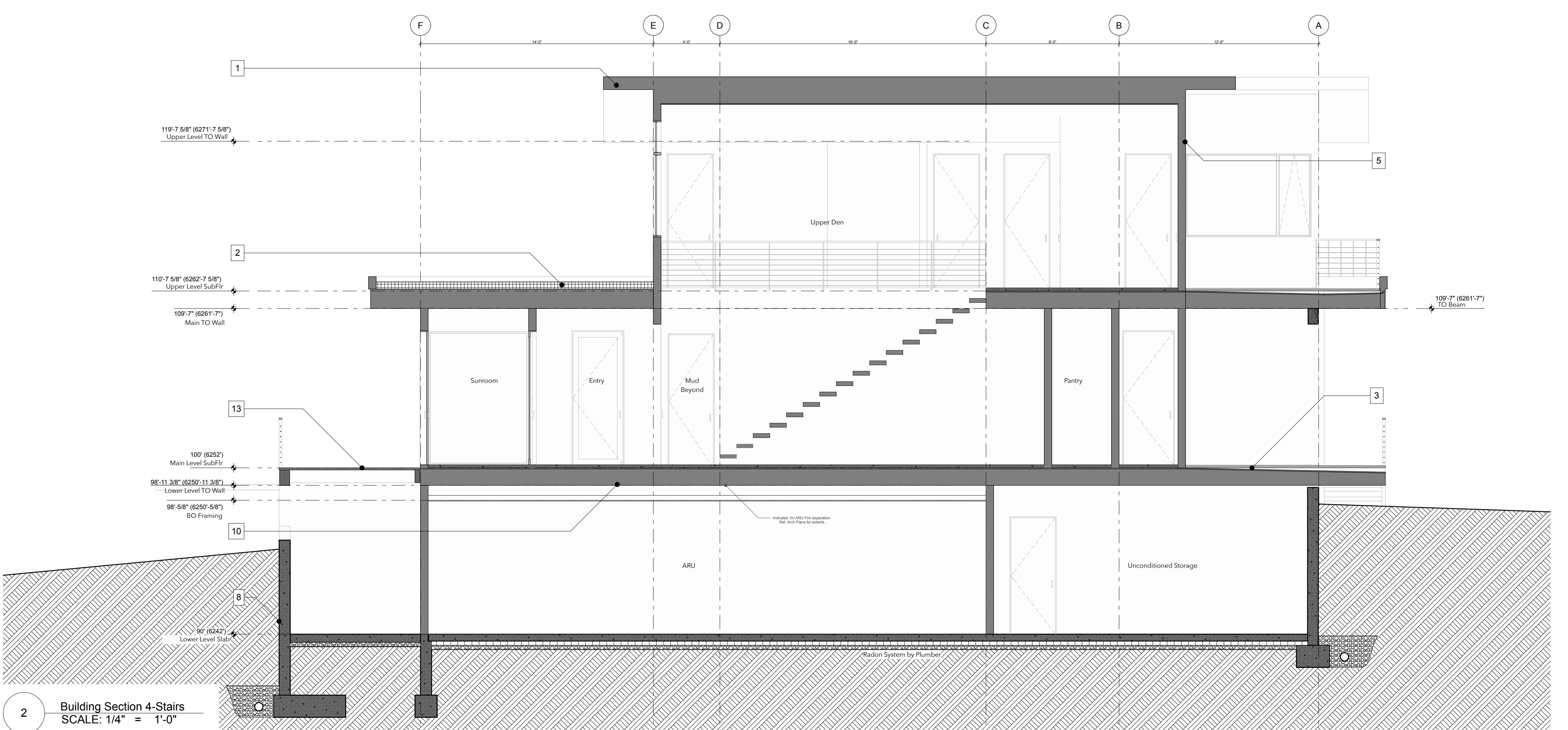
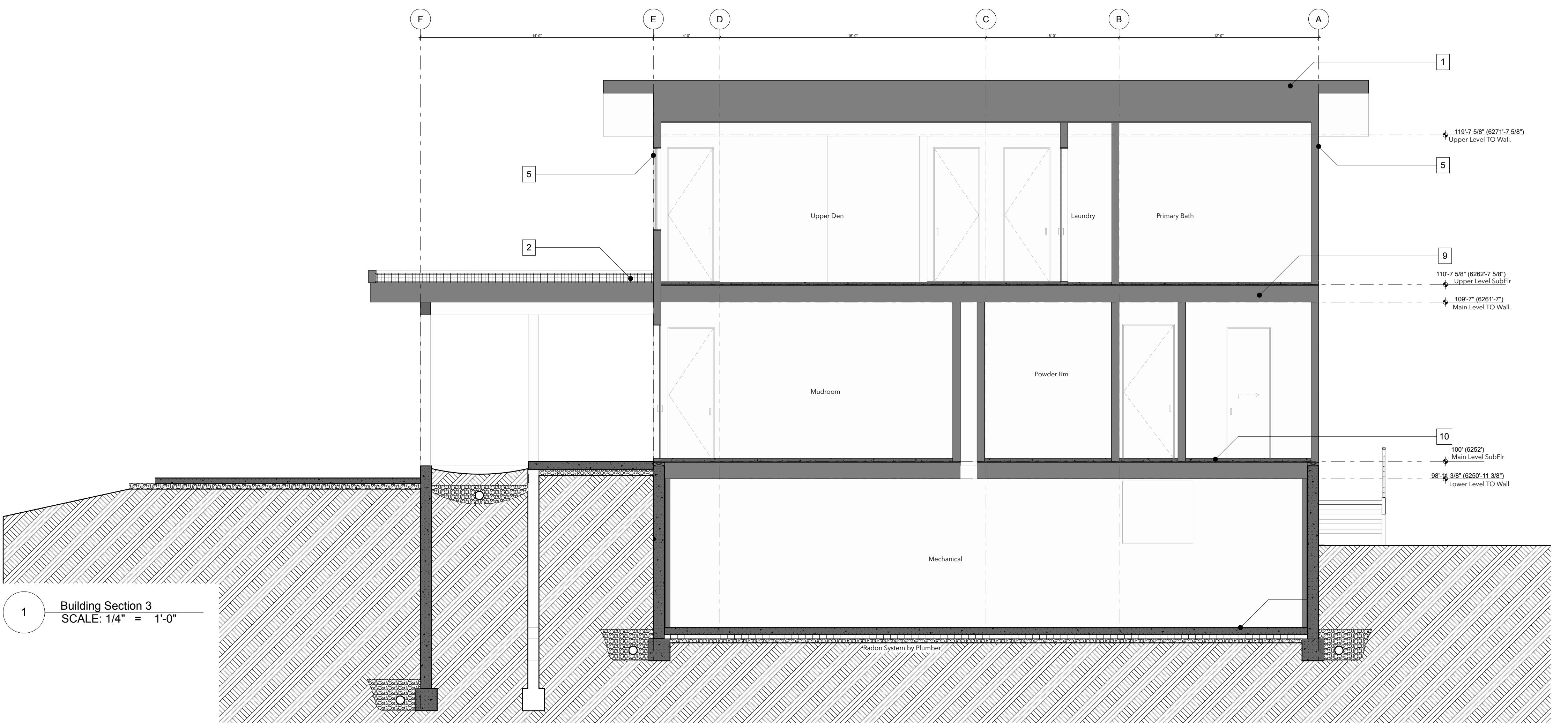
13 **Deck (Typ.):**
2x6 alaskan yellow cedar decking, on Wood Joists RE: Struct, with corrugated steel soffit. Assembly must meet WUI IR-1 requirements

14 **Exterior Slab on Grade:**
4" Concrete, Over 8 Mil Vapor Barrier (Taped & Sealed), Over Washed Rock, Over Compacted Base

DATE:	3/9/23
PROJECT #:	JH2203
DRAWN:	RHW
ISSUE:	Building Permit Set
	3.9.23

A404
Building Sections

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R E S I D E N C E**6165 Burcher Rd
Wilson WY 83014**ASSEMBLY NOTES**

- 1** **Shed Roof @ 1:12 Roof Pitch:** Class A Rated Standing seam metal roofing, on High Temperature rated Ice & Water Shield Underlayment, on Plywood Sheathing, on pre-manufactured wood trusses (Re: Struct) w/ closed cell polyurethane spray foam insulation (R-50 Min) Ceiling Finish: Smooth Level 3 drywall finish, painted. Provide snow retention system to be coordinated with timber frame contractor, and Roofing Sub Contractor. Provide heat cable at gutters, downspouts, and drainage paths. **Assembly must meet WUI IR-1 requirements**

- 2** **Flat Roof @ Parapet Roof:** Class A Rated EPDM/TPO membrane roofing, on tapered rigid insulation (1/2" min.) w/ 0.25:12 slope, on plywood roof sheathing, on l joist framing, Re: Struct., w/ closed cell polyurethane spray foam insulation (R-50 min) Ceiling Finish: Smooth Level 3 drywall finish, painted. See roof plan for roof slope and drain/downdrain locations. Provide heat cable at all downspouts and scuppers. **Assembly must meet WUI IR-1 requirements**

- 3** **Flat Roof @ Decks:** 2x decking, on reverse tapered 2x joists, on Class A Rated EPDM membrane roofing, on plywood roof sheathing, on tapered tapered LVL joist framing w/ 0.25:12 slope, Re: Struct., w/ closed cell polyurethane spray foam insulation (R-50 Min.) Provide perimeter gutter per plan & provide heat cable at gutter, downspout, and drainage paths. **Assembly must meet WUI IR-1 requirements**

- 4** **Exterior Decks :** 2x6 Alaskan Yellow Cedar, on Heavy timber framing, Re: Struct for layout & Sizing, Re: Arch Details for railings.
- 5** **Exterior Wall Framing @ Steel Siding:** 16ga Metal Siding, (Vf extants w/ owner), over Furring Strips, UV Batten or similar, with 2" Rigid Foam insulation (R-5), on drain wrap/weather barrier, on exterior sheathing, on wood stud wall framing, Re: Struct, w/ 3" closed cell polyurethane spray foam insulation (R-20 min). Wall Finish: Smooth Level 3 drywall finish, painted. **Assembly must meet WUI IR-1 requirements**

- 6** **Exterior Wall Framing @ Horizontal Wood Siding:** 2x Horizontal studs (Vf extants w/ owner) over Furring Strips, UV Batten or similar, with 2" Rigid Foam insulation, on drain wrap/weather barrier, on exterior sheathing, on wood stud wall framing, Re: Struct, w/ 3" closed cell polyurethane spray foam insulation (R-20 min), Wall Finish: Smooth Level 3 drywall finish, painted. **Assembly must meet WUI IR-1 requirements**

- 7** **Interior Wall Framing:** 2x stud wall, Re: Struct, w/ Smooth Level 3 drywall finish, painted. Fire tape @ Garage, Mechanical space, and Apartment Units.

- 8** **Foundation Wall, Typ:** 2' Extruded polystyrene insulation (R-10), on Fluid Applied waterproofing, on Foundation/ Retaining Wall, RE: Struct.
- Above grade: Provide Metal flashing over drainage/protection/insulation board.

- @ Garage/Basement: Provide 2x4 for wall, w/ closed cell polyurethane spray foam insulation (R-20 min.). Wall Finish: Smooth Level 3 drywall finish, painted.

- 9** **Upper Floor Assembly:** Flooring (See Finish Schedule) on plywood sheathing, on Engineering joists floor framing, RE: Struct., with sound batt insulation. Ceiling Finish: Smooth Level 3 drywall finish, painted. Fire tape @ Garage, Mechanical space, and Apartment Units.

- 10** **Main Floor Assembly / 1HR Fire Assembly:** 2 1/4" Concrete slab, (Vf extants w/ owner) integrated radiant hydronic tubing, control joints per Plan, Vf decorative additional joints w/ owner, on plywood sheathing, on engineering floor joist, with 5/8" Type X gypsum board, 12" dropped ceiling framed w/ 2x4, 5/8" Type X gypsum board. RE: Struct., with sound batt insulation.

- 11** **Basement Floor Assembly:** Finish Floor Material (See Finish Schedule), on 5" Reinforced Concrete Slab (See Struct.) w/ integrated radiant hydronic tubing, sawn control joints per plan, on Vapor Barrier, on 3" Rigid Insulation (R-15), on 6" Gravel Fill (No Fines).

- 12** **Garage Floor Assembly:** Reinforced Concrete Slab (See Struct.) w/ integrated radiant hydronic tubing, sawn control joints per plan on Vapor Barrier, on 3" Rigid Insulation (R-15), on 6" Gravel Fill (No Fines).

- 13** **Deck (Typ.):** 2x6 alaskan yellow cedar decking, on Wood Joists RE: Struct, with corrugated steel soffit. **Assembly must meet WUI IR-1 requirements**

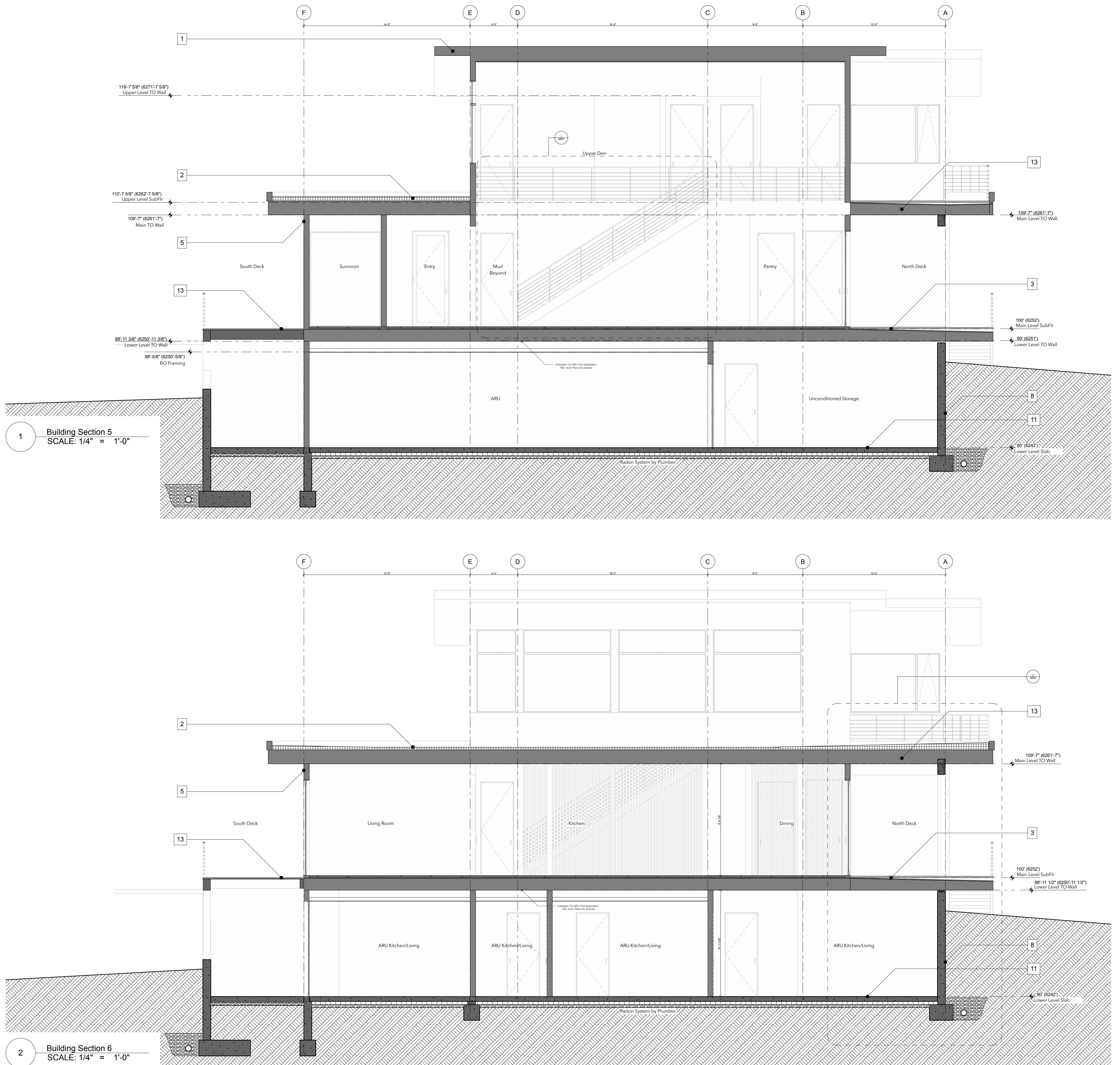
- 14** **Exterior Slab on Grade:** 4" Concrete, Over 8 Mil Vapor Barrier (Taped & Sealed), Over Washed Rock, Over Compacted Base

DATE: 3/9/23
PROJECT #: JH2203
DRAWN: RHW
ISSUE: Building Permit Set 3.9.23

A405

Building Sections

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ARCHITECT STAMP**FOR CONSTRUCTION**
BUILDING PERMIT**R O S C O E
R E S I D E N C E**6165 Burcher Rd
Wilson WY 83014

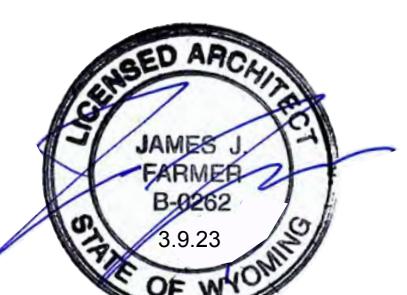
DATE:	3/9/23
PROJECT #:	JH2203
DRAWN:	RHW
ISSUE:	Building Permit Set
	3.9.23

A406

Building Sections

Jackson Hole
260 West Broadway, Suite A
Jackson, WY 83001
307.264.0060Sun Valley
351 N Lincoln Ave, Suite 204
Ketchum, ID 83340
208.214.5155Louisiana
910 Perimeter Rd, Suite 410
Shreveport, LA 71106
318.383.3100

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PROJECT #: JH2203
DRAWN: RHW
ISSUE:
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A601
Details

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R E S I D E N C E**6165 Burcher Rd
Wilson WY 83014

Exterior Door Elevations												
ID	D01	D10	D11	D12	D13	D14	D15	D16	D17	D24		
View from Exterior												
2D Plan Preview												
Operation Type	Inswing Door	Inswing Door	Inswing Door	Sliding Door	Inswing Door	Sliding Door	Inswing Door	Inswing Double Door	Inswing Door	Inswing Door		
Nominal W x H Size	3'-0" x 8'-0"	3'-0" x 8'-0"	3'-0" x 8'-0"	13'-0" x 8'-0"	2'-8" x 8'-0"	12'-11 1/2" x 8'-0"	3'-0" x 8'-0"	8'-10" x 9'-2 1/4"	2'-8" x 8'-0"	2'-8" x 8'-0"		
Location	ARU Entry	Main Level Entry	Sun Room	Main Living room	Dining/Kitchen	Dining	North Deck	Garage	Mudroom	Upper Deck		

Interior Door Elevations																									
	D02	D03	D04	D05	D06	D18	D19	D20	D21	D22	D23	D25	D26	D27	D28	D29	D30	D31	D32	D33	D34	D36	D38	D37	
View from Opening Side																									
2D Plan Preview																									
Operation Type	Inswing Double Door	Sliding Door	Inswing Double Door	Inswing Double Door	Inswing Double Door	Inswing Double Door	Inswing Double Door	Inswing Double Door	Inswing Double Door	Inswing Double Door	Inswing Double Door	Inswing Double Door	Inswing Double Door	Inswing Double Door	Inswing Double Door	Inswing Double Door	Inswing Double Door	Inswing Double Door	Inswing Double Door						
ID																									
Nominal W x H Size	2'-8" x 7'-0"	2'-8" x 7'-0"	2'-8" x 7'-0"	2'-8" x 7'-0"	2'-8" x 8'-0"	6'-0" x 8'-0"	3'-0" x 8'-0"	2'-6" x 8'-0"	3'-0" x 8'-0"	2'-4" x 8'-0"	2'-6" x 8'-0"	2'-8" x 8'-0"	2'-6" x 8'-0"	2'-8" x 8'-0"	2'-8" x 8'-0"										

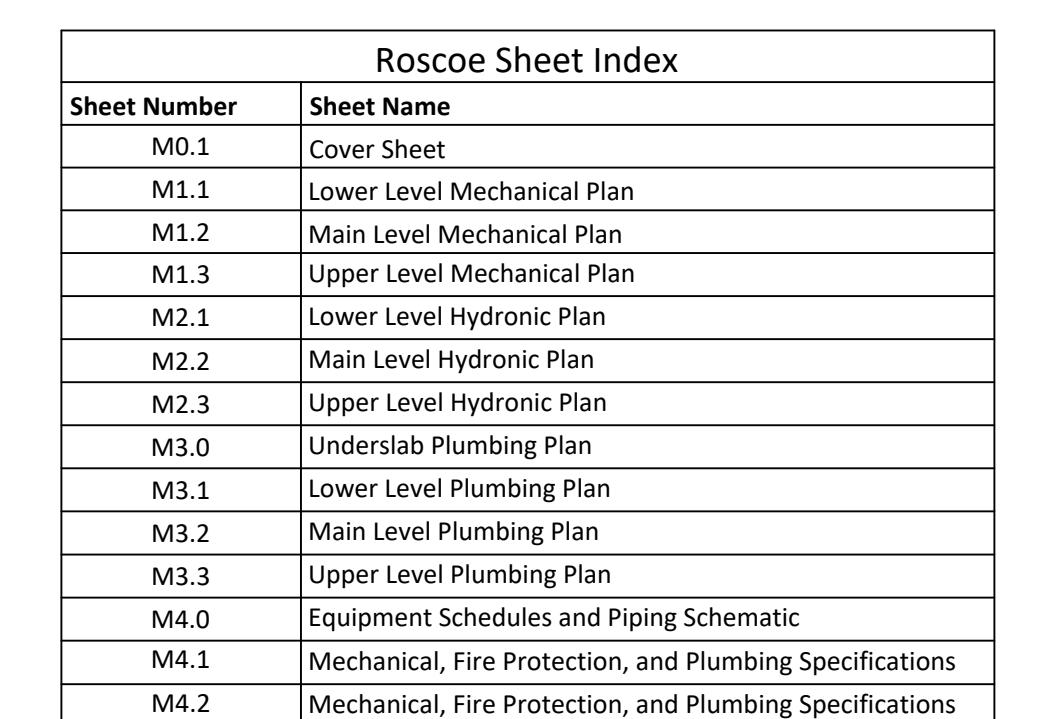
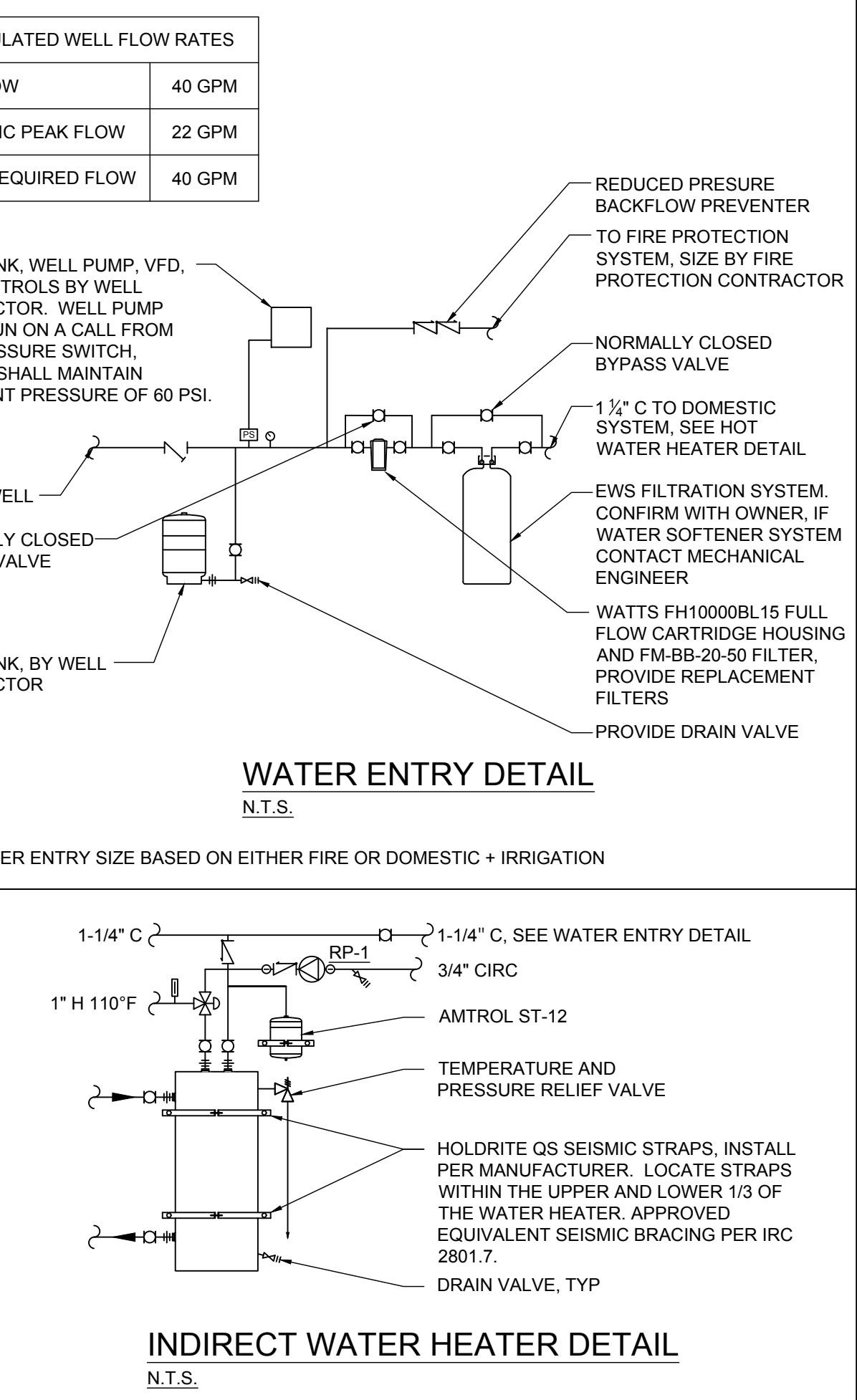
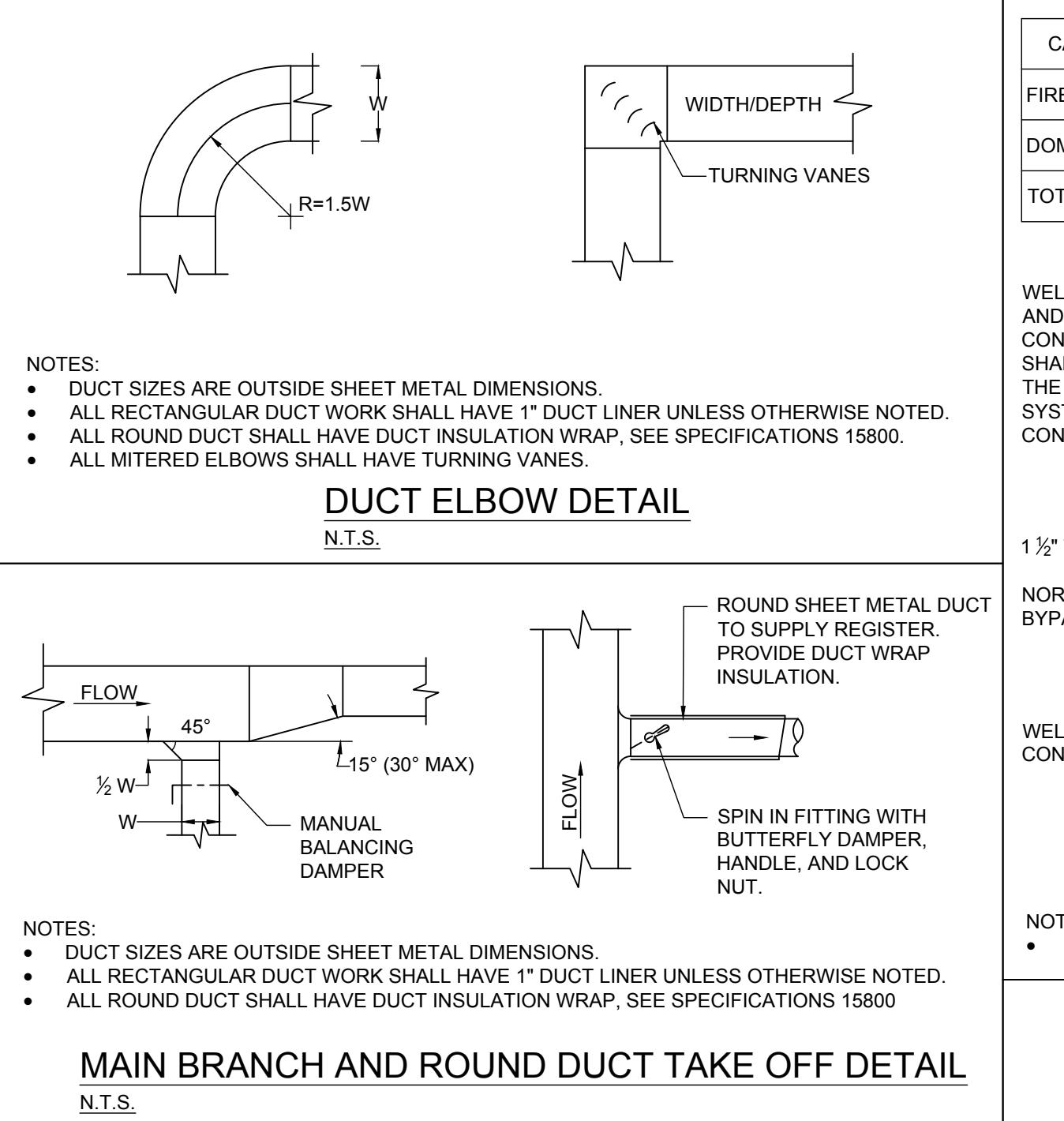
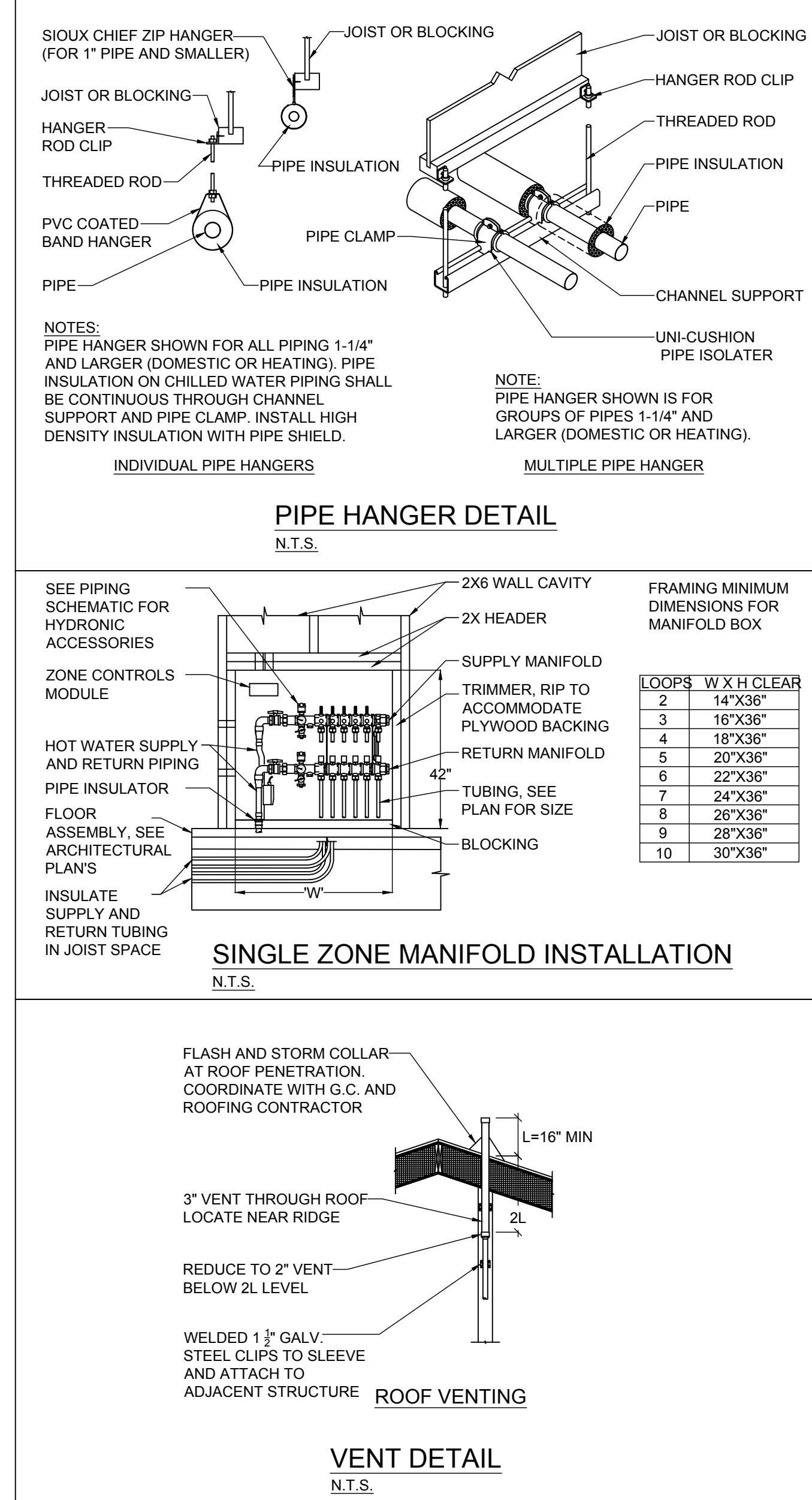
Window Elevations												
ID	W01	W02	W03	W04	W05	W06	W07	W08	W09	W10	W10	W11
View from Exterior												
2D Plan Preview												
Operation Type	Fixed	Fixed	Awning	Awning	Fixed	Fixed	Fixed	Fixed	Casement	Fixed	Fixed	Fixed
Nominal W x H Size	4'-4" x 8'-0"	9'-6" x 6'-0"	6'-0" x 2'-0"	9'-0" x 5'-0"	6'-0" x 8'-0"	9'-6" x 5'-0"	9'-0" x 5'-0"	7'-10" x 8'-0"	6'-0" x 8'-0"	7'-6 1/2" x 5'-0"	6'-11" x 5'-0"	7'-10" x 7'-0"
Location	ARU Living	ARU Living	ARU Bath	ARU Bed	Sun Room	Main Living	Kitchen	Dining	Guest/Flex Room	Office	Upper Den	Upper Den

W12	W13	W14	W15	W20	W21	W22	W23	W24	W25	W26	W27
Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Casement	Fixed	Fixed	Casement	Fixed	Casement
3'-4" x 7'-0"	7'-5" x 7'-0"	7'-5" x 7'-0"	7'-5" x 7'-0"	3'-0" x 6'-0"	3'-0" x 6'-0"	8'-10" x 8'-0"	6'-0" x 2'-0"	2'-0" x 5'-0"	8'-0" x 5'-0"	2'-0" x 8'-0"	8'-0" x 5'-0"
Upper Den	Upper Den	Upper Den	Upper Den	Office	Office	Primary Bed	Primary Bed	Primary Closet	Bed 1	Bed 2	Bed 2

DATE: 3/9/23
PROJECT #: JH2203
DRAWN: RHW

ISSUE:
Building Permit Set 3.9.23

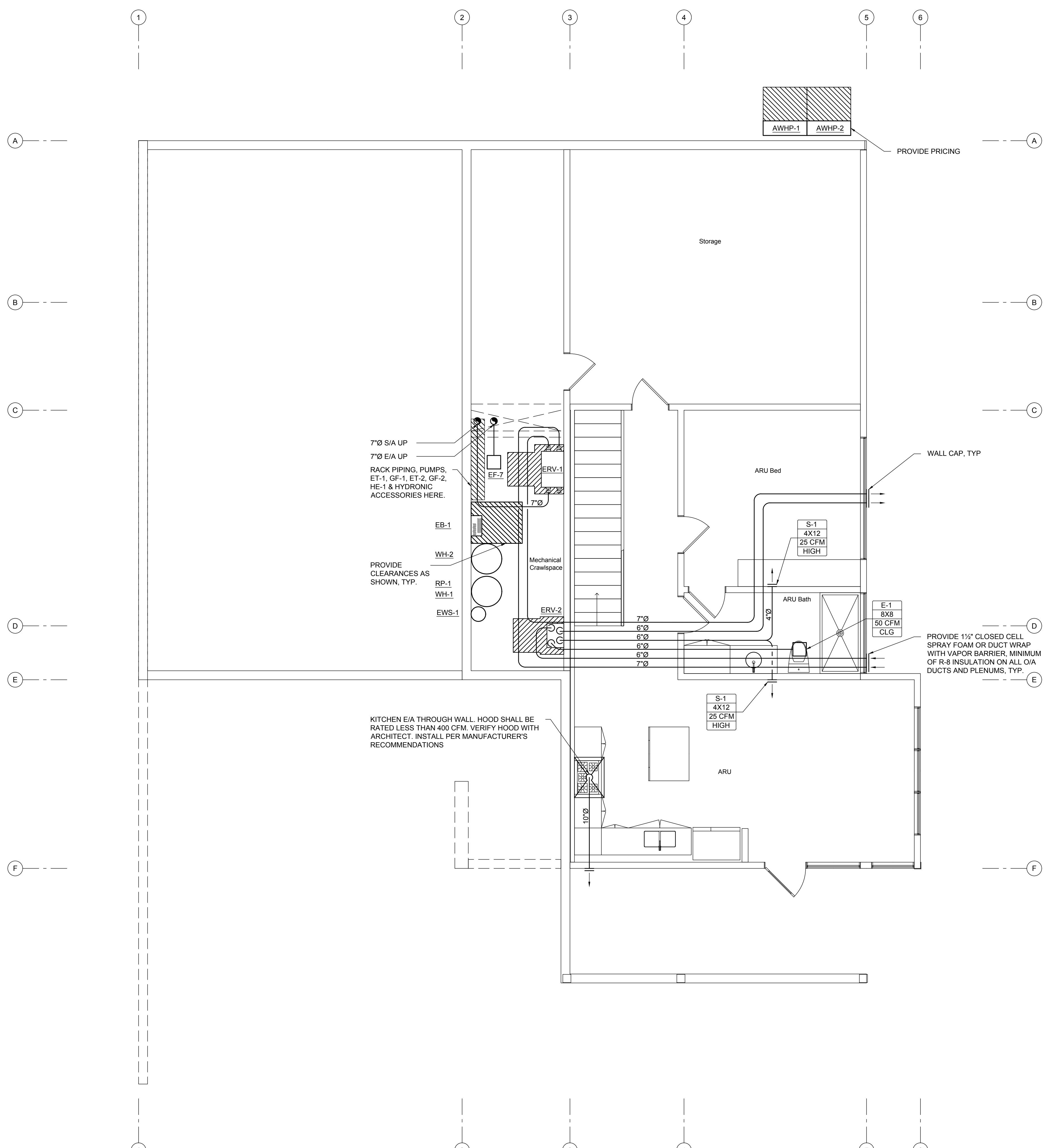
A701
Door & Window
Schedules_Elevations



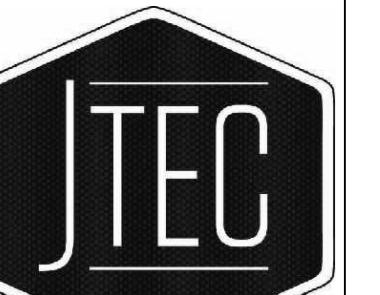
GENERAL NOTES	
BUILDING CODE SUMMARY:	
• 2024 INTERNATIONAL RESIDENTIAL CODE (2024IRC)	
• 2024 INTERNATIONAL ENERGY CONSERVATION CODE (2024IECC)	
• 2024 INTERNATIONAL PLUMBING CODE (2024IPC)	
• 2024 INTERNATIONAL MECHANICAL CODE (2024IMC)	
• 2024 INTERNATIONAL FUEL GAS CODE (2024IFGC)	
• 2024 INTERNATIONAL FIRE CODE (2024IFC)	
• 2018 INTERNATIONAL WILDLAND-URBAN INTERFACE CODE (2018IWUC)	
• ALL TETON COUNTY BUILDING CODE RESOLUTIONS	
PER IRC M1305.1.3, UNDER FLOOR AND ATTIC SPACES CONTAINING EQUIPMENT REQUIRING SERVICE SHALL HAVE AN UNBLOCKED PATH WAY LARGE ENOUGH TO REMOVE THE EQUIPMENT, BUT NOT LESS THAN 30 INCHES TALL BY 22 INCHES WIDE. THE PATHWAY SHALL BE LESS THAN 20 FEET IN LENGTH. PROVIDE LUMINARIES CONTROLLED BY A SWITCH AT THE OPENING AND RECEPTACLE OUTLET AT OR NEAR ALL APPLIANCES.	
PROVIDE 30 INCH DEEP BY 30 INCH WIDE BY 30 INCH HIGH LEVEL CLEAR SPACE IN FRONT OF EQUIPMENT FOR SERVICING	
PROVIDE FLOOR DRAINS IN ALL LAUNDRY AND MECHANICAL ROOMS WITH SURE SEAL TRAP SEALER WITH BACKWATER PROTECTION.	
LOCATE ALL E/A TERMINATION NOT LESS THAN 3' FROM OPENINGS INTO BUILDING AND MINIMUM OF 18" ABOVE GRADE. PROVIDE WALL CAP WITH BACKDRAFT DAMPERS AND SCREENS. VERIFY WALL CAP STYLE AND COLOR WITH ARCHITECT.	
LOCATE ALL O/A TERMINATION NOT LESS THAN 10' FROM E/A TERMINATIONS. PROVIDE WALL CAP WITH BACKDRAFT DAMPERS AND SCREENS.	
RADON MITIGATION SHALL BE INSTALLED PER IRC APPENDIX F. A PLUMBING TEE SHALL BE INSERTED BELOW [CRAWLSPACE SHEETING] [BASEMENT SLAB] AND CONNECT TO A 4" SCHEDULE 20 PVC VENT PIPE. THE VENT PIPE SHALL EXTEND UP THROUGH THE BUILDING AND TERMINATE NOT LESS THAN 12 INCHES ABOVE THE ROOF IN A LOCATION AT LEAST 10 FEET FROM WINDOWS OR ANY OTHER OPENINGS INTO THE BUILDING OR ANY ADJACENT BUILDING. PROVIDE A POWER SOURCE IN THE ATTIC FOR FUTURE INSTALL OF FAN. IN THE EVENT RADON LEVELS ARE TESTED ABOVE ACCEPTABLE LEVELS, THE FAN SHALL BE SIZED FOR 90 TO 150 CFM AT 0" STATIC PRESSURE. PROVIDE RAIN CAP FOR THE TERMINATION.	
DOMESTIC HOT WATER CIRC LINE TO END WITHIN 5 FEET OF ALL HOT WATER PLUMBING FIXTURES. PROVIDE BALANCING VALVES ON ALL BRANCH LINES.	
SEE ARCH FOR HOSE BIB LOCATIONS.	
MOUNT COVE HEATERS PER MANUFACTURERS INSTALLATION INSTRUCTIONS: MINIMUM OF 6' ABOVE FINISHED FLOOR, 1" ABOVE BLINDS, AND 4" BELOW CEILING. COVE HEATERS WILL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.	

LEGEND	
☒	FLEX CONNECTION
☒	DIFFERENTIAL PRESSURE REGULATOR
☒	PIPE BREAK
●	POINT OF CONNECTION
⊕	UNION
⊖	DRAIN VALVE
☒	CIRCUIT SETTER
□	BALL VALVE
☒	CHECK VALVE
☒	CONTROL VALVE
☒	3 WAY CONTROL VALVE
○	ISOLATION VALVE
☒	PLUG VALVE
☒	PRESSURE REDUCING VALVE
□	ACTUATOR
Y	AIR VENT
□	CAP
☒	FLOW SWITCH
♀	PRESSURE GAUGE
☒	PRESSURE SWITCH
⊟	STRAINER
↑	P AND T PLUG
⊖	HOSE BIB
⊖	AIR SEPARATOR
⊖	PRESSURE RELIEF VALVE
⊖	DIFFUSER TAG
⊖	THERMOSTAT
⊖	HUMIDISTAT STAT
⊖	VENTILATION CONTROLLER
⊖	PUSH BUTTON/SWITCH
⊖	REMOTE SENSOR
☒	SECTION THRU O/A OR S/A DUCT
☒	SECTION THRU R/A OR E/A DUCT
⊖	OPPOSED BLADE MANUAL DAMPER
⊖	MOTORIZED DAMPER
⊖	BACKDRAFT DAMPER

ABBREVIATIONS	
—C—	- DOMESTIC COLD WATER
—H—	- DOMESTIC HOT WATER
-CIRC-	- RECIRCULATED HOT WATER
-GS-	- GEOTHERMAL SUPPLY WATER
-GR-	- GEOTHERMAL RETURN WATER
-RAD HWS-	- RADIANT FLOOR HOT WATER SUPPLY
-RAD HWR-	- RADIANT FLOOR HOT WATER RETURN
-SM HWS	- SNOW MELT HOT WATER SUPPLY
-SM HWR	- SNOW MELT HOT WATER RETURN
-HWS-	- HOT WATER SUPPLY
-HWR-	- HOT WATER RETURN
-SWS-	- SOURCE WATER SUPPLY
-SWR-	- SOURCE WATER RETURN
-G-	- LOW PRESSURE NATURAL GAS (11" W.C.)
- MG -	- MEDIUM PRESSURE GAS (2 PSI)
- GW -	- GREASE WASTE PIPE
- RWL -	- RAIN WATER LEADER
- ORWL -	- OVERFLOW RAIN WATER LEADER
- W -	- WASTE PIPE
- DT -	- DRAIN TILE PIPE
- DTD -	- DRAIN TILE DISCHARGE PIPE
- V -	- PLUMBING VENT PIPE
AFF	- ABOVE FINISHED FLOOR
AFG	- ABOVE FINISHED GRADE
BDD	- BACK DRAFT DAMPER
CFM	- CUBIC FEET PER MINUTE
CLG	- CEILING
CONN	- CONNECT
CO	- CLEANOUT
COTG	- CLEANOUT TO GRADE
DN	- DOWN
(E)	- EXISTING
EAT	- ENTERING AIR TEMPERATURE
E/A	- EXHAUST AIR
EWT	- ENTERING WATER TEMPERATURE
FA	- FREE AREA
FCO	- FLOOR CLEANOUT
GPM	- GALLONS PER MINUTE
LAT	- LEAVING AIR TEMPERATURE
LWT	- LEAVING WATER TEMPERATURE
(N)	- NEW
OBD	- OPPOSED BLADE VOLUME DAMPER
OC	- ON CENTER
O/A	- OUTSIDE AIR
R/A	- RETURN AIR
S/A	- SUPPLY AIR
TYP	- TYPICAL
UNO	- UNLESS NOTED OTHERWISE
VRT	- VENT THROUGH ROOF
W/	- WITH
WCO	- WALL CLEANOUT
SF	- SQUARE FEET



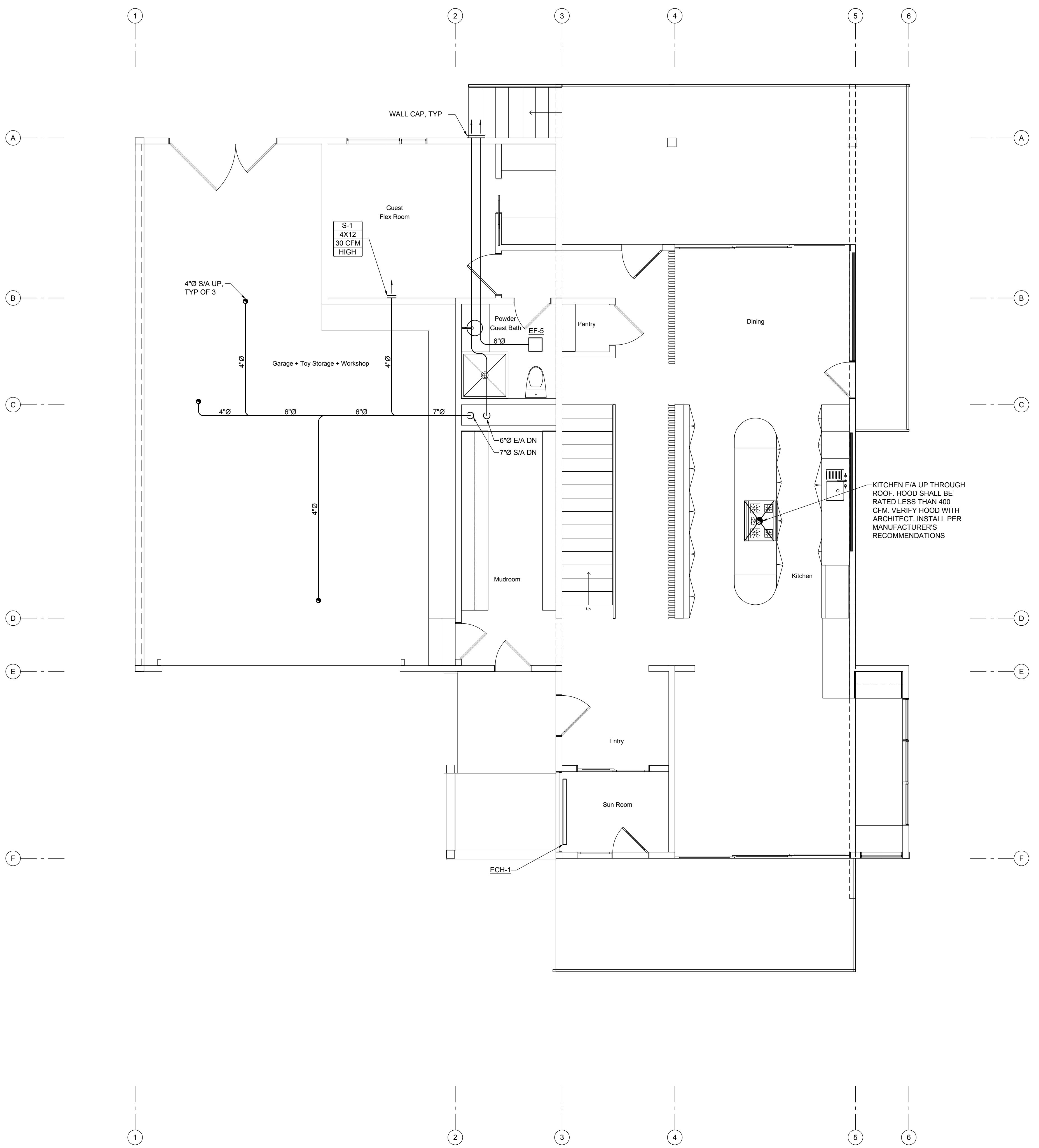
LOWER LEVEL MECHANICAL PLAN
SCALE: 1/4"=1'-0"



PO BOX 4594
JACKSON, WY 83001
307-699-1110

PROJECT INFO.
ROSCOE RESIDENCE
6165 BURCHER ROAD
WILSON, WY 83014

PROJECT NO.: 2227
DRAFTED BY: IS
REVIEWED BY: JGT
PLAN VERSION DATE
PERMIT SET 3.9.23



N
MAIN LEVEL MECHANICAL PLAN

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

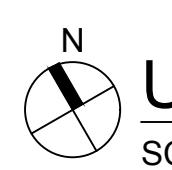
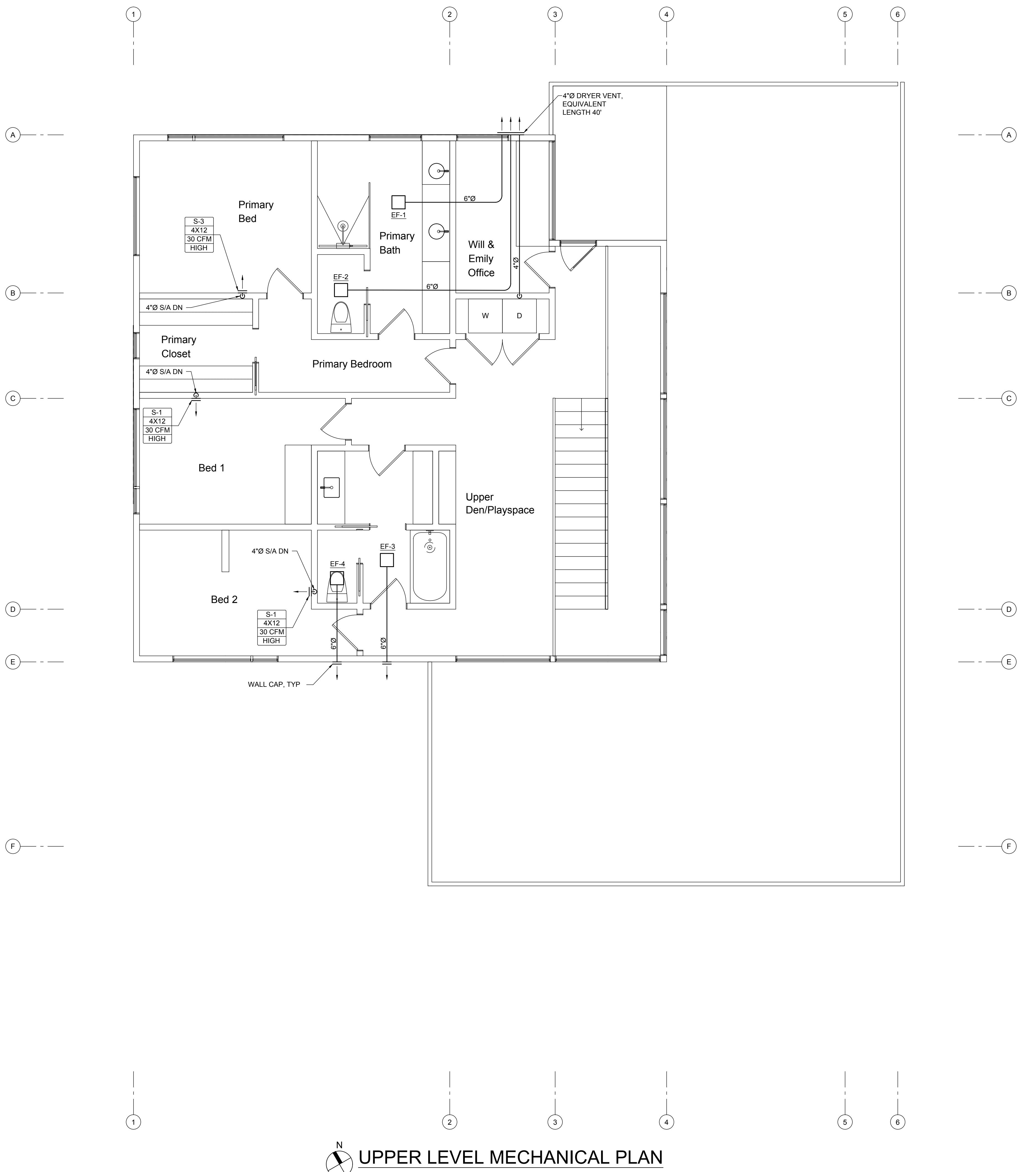
M1.2

JTEC
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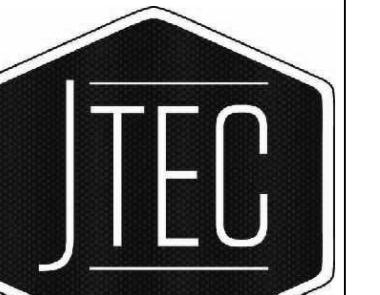
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ROSCOE RESIDENCE
6165 BURCHER ROAD
WILSON, WY 83014

PROJECT NO.:	2227
DRAFTED BY:	IS
REVIEWED BY:	JGT
PLAN VERSION	DATE
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M1.3



UPPER LEVEL MECHANICAL PLAN
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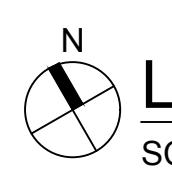


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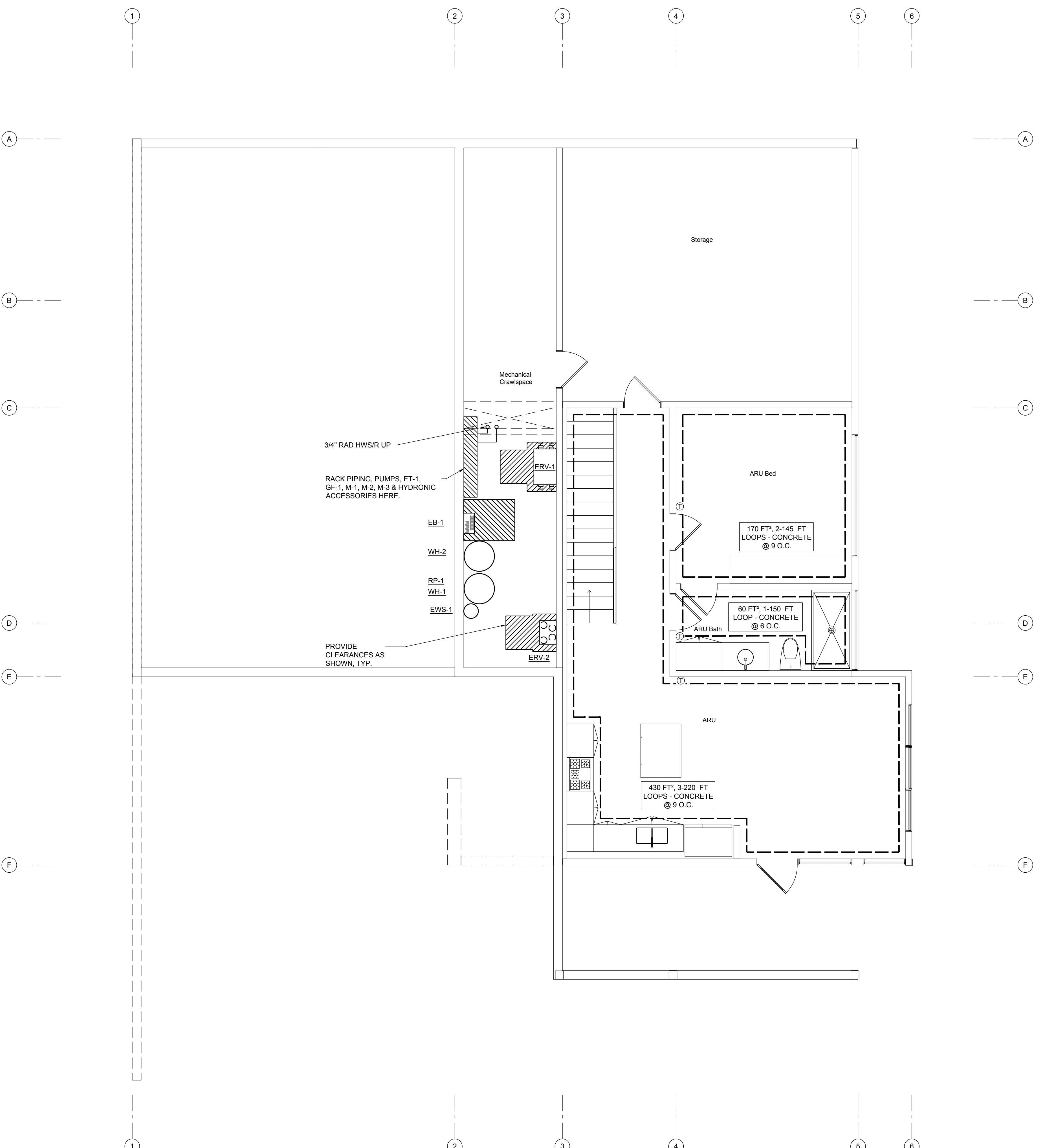
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REVIEWED BY: JGT
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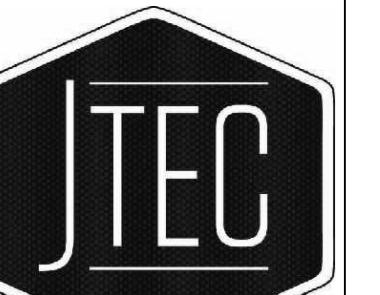
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LOWER LEVEL HYDRONIC PLAN

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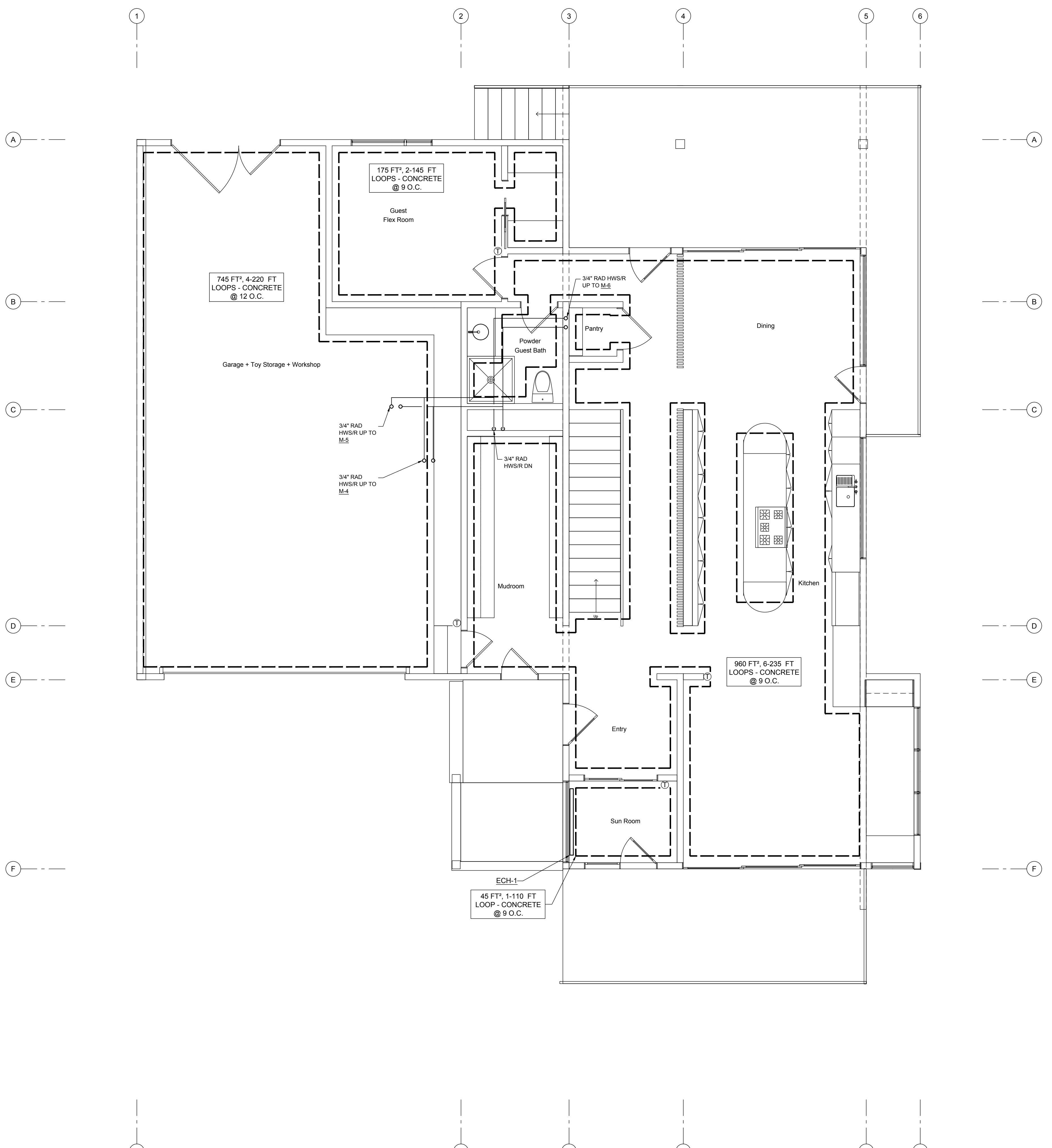


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PROJECT INFO.
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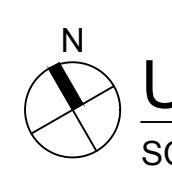
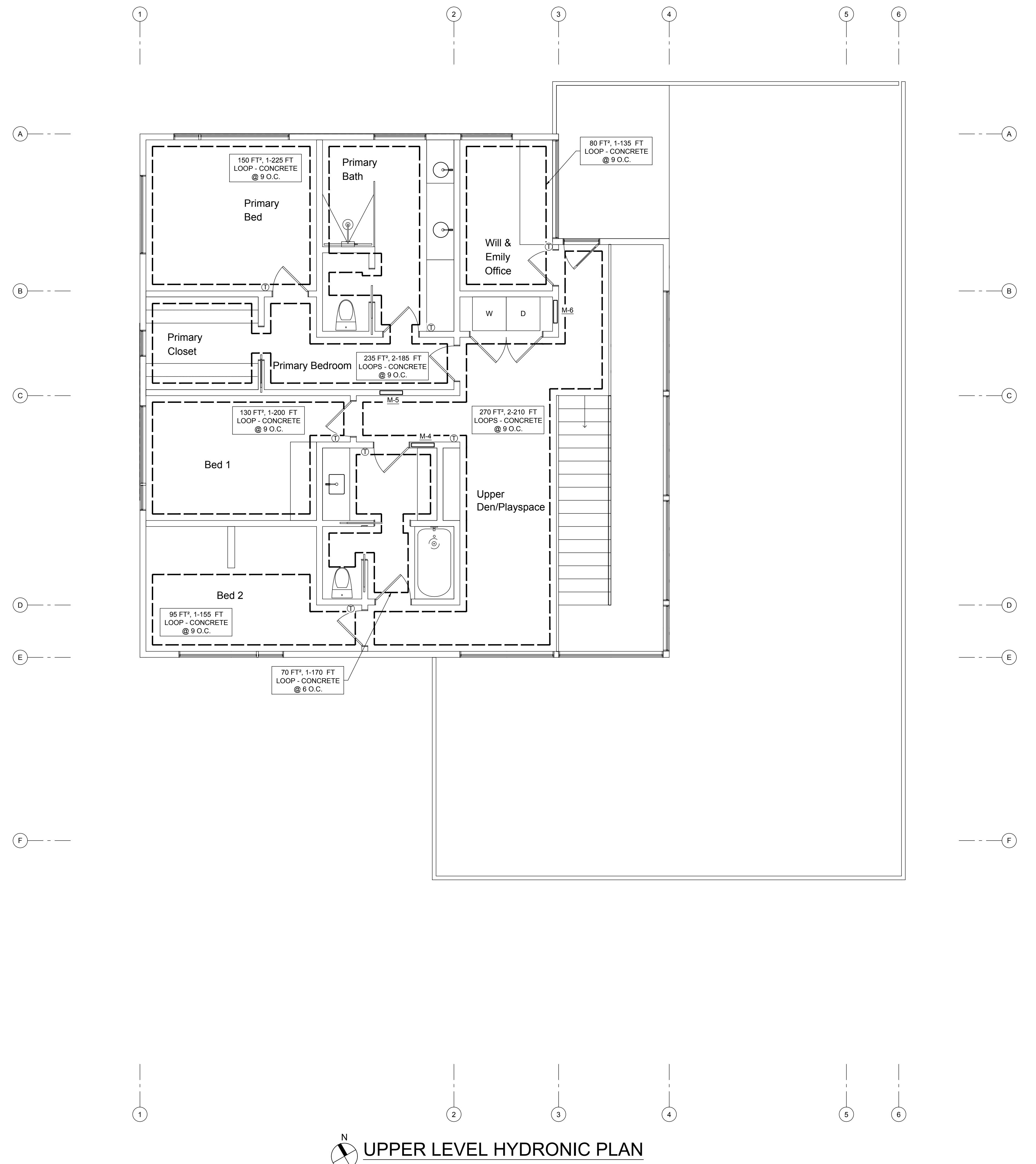
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REVIEWED BY:	JGT
PLAN VERSION	DATE
PERMIT SET	3.9.23

M2.2



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MAIN LEVEL HYDRONIC PLAN

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



UPPER LEVEL HYDRONIC PLAN
SCALE: 1/4"=1'-0"

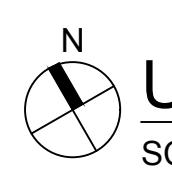


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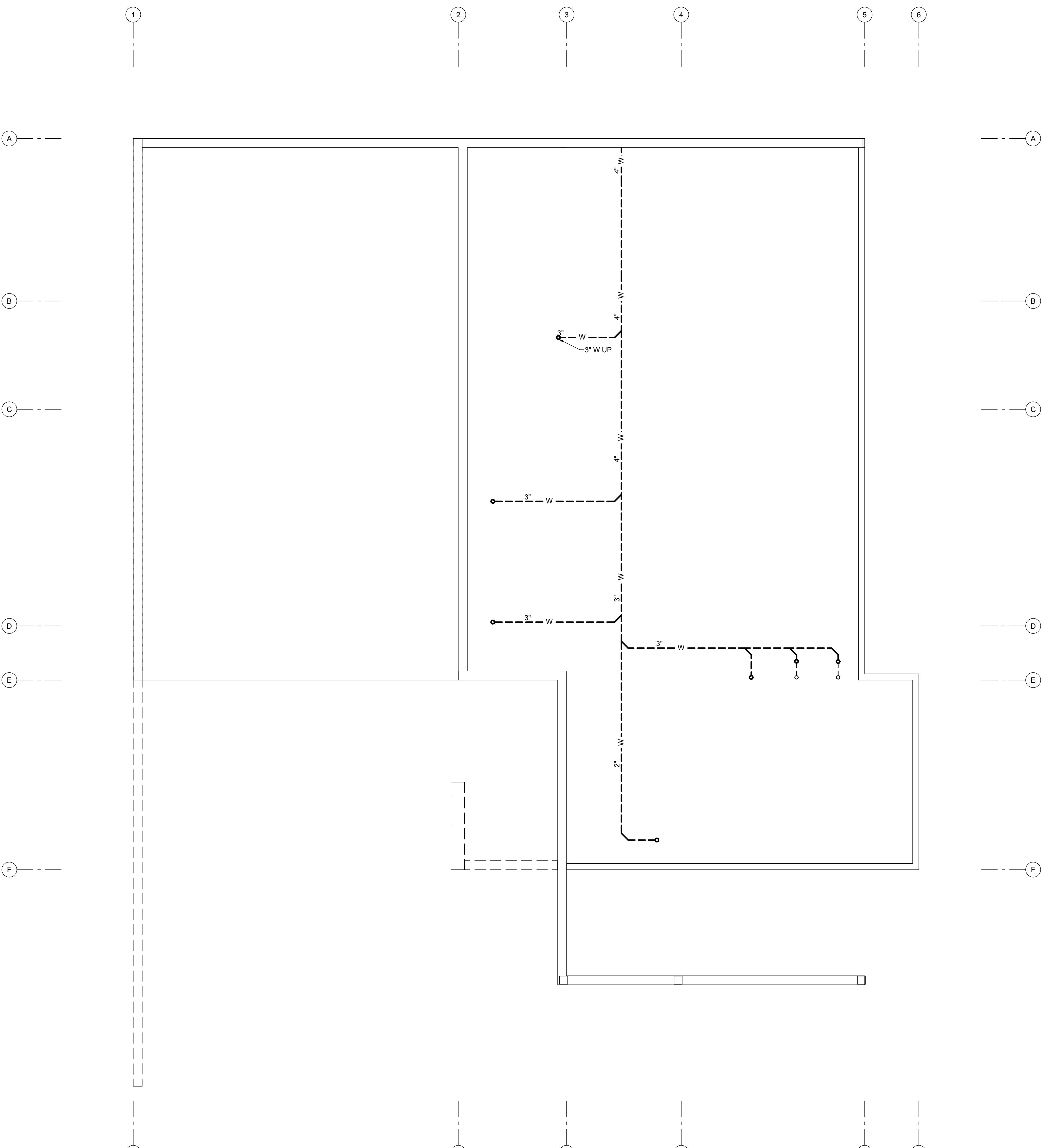
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ROSCOE RESIDENCE
6165 BURCHER ROAD
WILSON, WY 83014

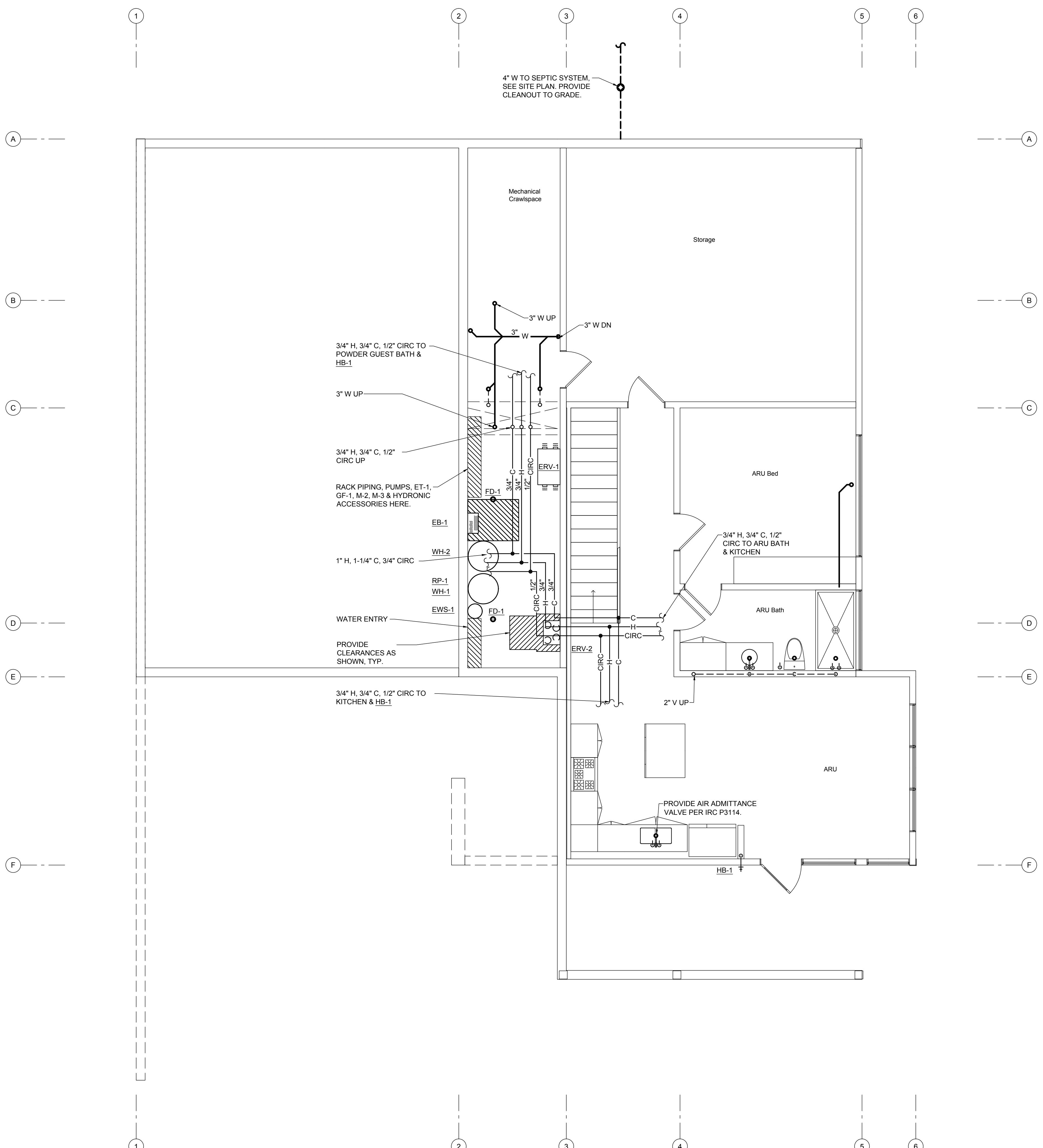
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REVIEWED BY: JGT
PLAN VERSION DATE
PERMIT SET 3.9.23

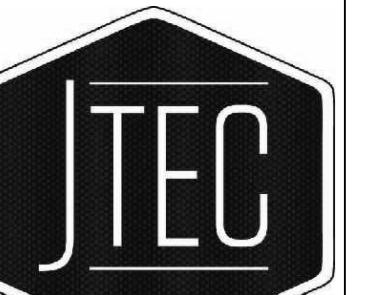
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UNDERSLAB PLUMBING PLAN
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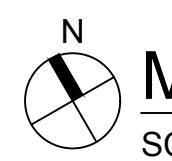


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WILSON, WY 83014

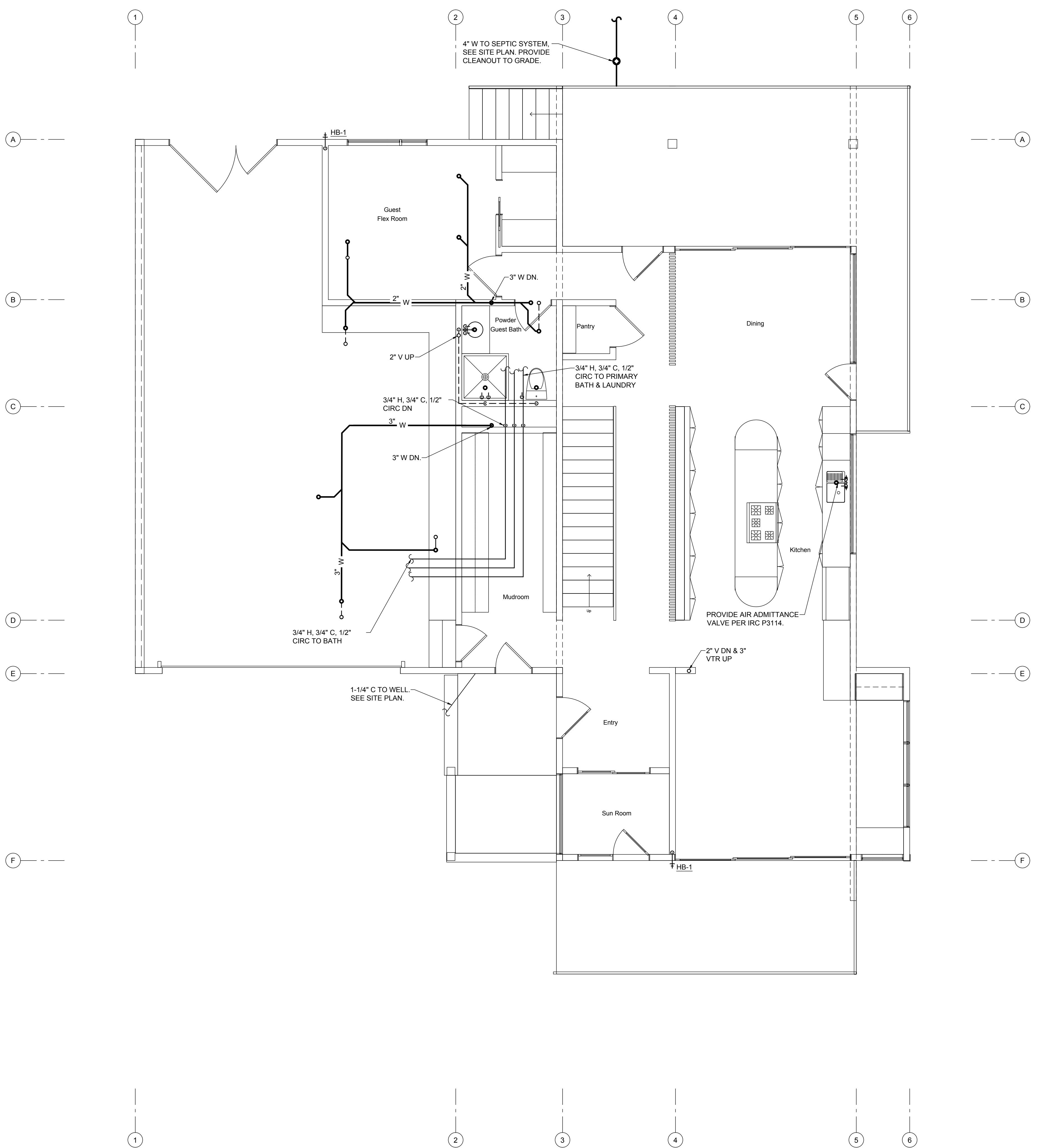
PROJECT NO.:	2227
DRAFTED BY:	IS
REVIEWED BY:	JGT
PLAN VERSION	DATE
PERMIT SET	3.9.23

M3.2



MAIN LEVEL PLUMBING PLAN

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

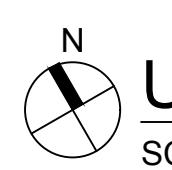
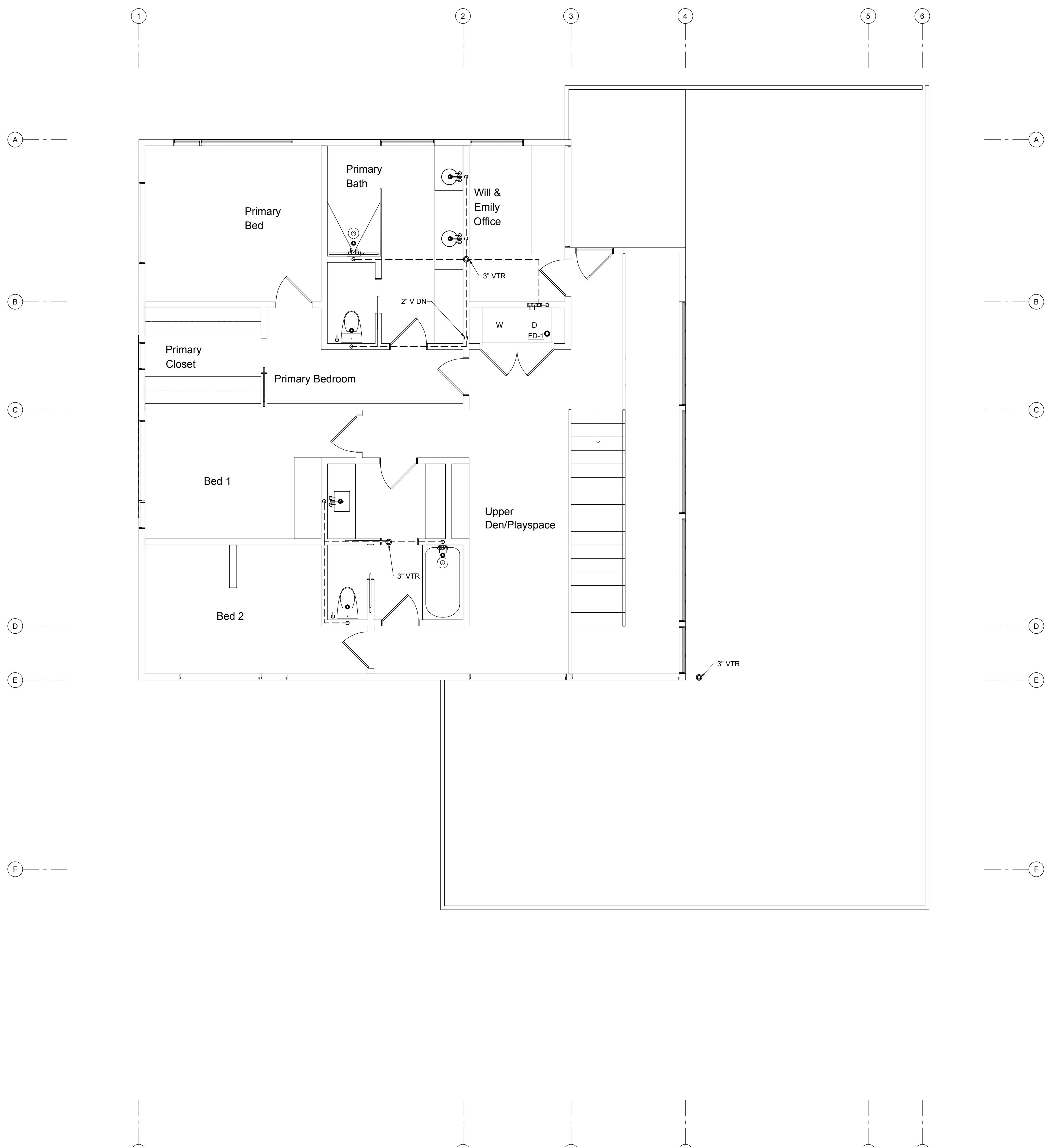




PROJECT INFO.
ROSCOE RESIDENCE
6165 BURCHER ROAD
WILSON, WY 83014

PROJECT NO.: 2227
DRAFTED BY: IS
REVIEWED BY: JGT
PLAN VERSION DATE
PERMIT SET 3.9.23

M3.3



N
UPPER LEVEL PLUMBING PLAN
SCALE: 1/4"=1'-0"



PO BOX 4594
JACKSON, WY 83001
307-699-1110

PROJECT INFO:
**ROSCOE RESIDENCE
6165 BURCHER ROAD
WILSON, WY 83014**

SECTION 15010 BASIC MECHANICAL AND PLUMBING REQUIREMENTS

PART 1 - GENERAL

1.01 SUMMARY OF WORK:

A. Work Included: The work under this division of the specifications consists of furnishing all labor, equipment and materials necessary for and reasonably incidental to the complete installation of the Mechanical Systems as herein described and indicated on the drawings, including such minor details not specifically mentioned or shown as may be necessary to complete the work ready for successful operation and subject to the terms and conditions of the contract. All work under this section shall be done in accordance with the best modern practice using first grade equipment and material new and previously unused.

B. Work Not Included (Specified elsewhere): Certain labor and materials may be furnished and/or installed under other divisions of these specifications. Coordinate with other trades and arrange with the work to make the parts fit together.

C. Existing Utilities:

1. Prior to the start of excavation, utility companies shall be contacted and advised of proposed work where sewer, telephone, water, fuel, electric lines, etc. may be encountered, and be advised of where such underground installations are located. When the excavation approaches these installations, the location and the exact location shall be determined and when it is uncovered, proper supports shall be provided for the existing installation.

2. If active utilities are encountered that are not indicated on the drawings, ask for instructions from the Architect. Any relocation or remodeling required will then be directed by the Architect.

3. Assume all responsibility for protection of all utilities, shown or not, and repair any damage caused by this construction at no extra charge to the Owner.

4. Investigate with proper authorities for all existing water taps, etc. and make arrangements to pay for all removal charges in original bid.

D. Definitions:

1. Provide: Contractor shall furnish and install item or items specified. Contractor shall perform all labor and furnish all materials and equipment necessary so that specified item or system will be complete and operational.

2. Furnish: Contractor shall deliver to the site item(s) specified, as well as additional specialized materials and/or accessories necessary for the use and operation of item or items specified.

3. Install: Contractor shall set in place, connect and adjust for use. Contractor shall furnish miscellaneous specialty items such as hardware, valves, fittings, piping, sheet metal, etc. as necessary for a complete and operating installation.

4. Exposed: Accessible in mechanical rooms, unfinished areas, above T-grid ceilings, accessible tunnels, etc.

5. Concealed: In such spaces as chases, trenches, above drywall ceilings, in walls and buried where materials are inaccessible when building is completed.

1.02 COORDINATION:

A. General: Coordinate and order the progress of mechanical work to conform to the schedule and the progress of the work of the other trades.

B. Drawings and Specifications: Contract drawings for mechanical and plumbing work are in part diagrammatic, intended to convey the scope of work and indicate general arrangement of equipment, ducts, piping, approximate sizes and location of equipment and outlets. Drawings do not necessarily indicate every required detail, fitting, etc. The all dimensions from the structure itself before specifying any work. Verify all space requirements, coordinating with other trades and install the systems in the space provided.

2. The drawings are not intended to be scaled for roughing in measurements nor to serve as shop drawings.

3. Should there be a conflict within the Specifications or within drawings of the same scale, the more stringent or higher quality requirements shall apply.

4. In the Drawings, the precedence shall be drawings of larger scale over those of smaller scale.

5. Should a conflict arise between the Drawings and the Specifications for products indicated on the Drawings, the Specifications shall have precedence.

6. Should there be a conflict in dimensions or locations between Mechanical Drawings and Architectural Drawings, the Architectural Drawings shall have precedence.

1.03 QUALITY ASSURANCE:

A. Workmanship: Perform work in accordance with good trade practices. The general appearance of the finished work shall be of equal importance with its mechanical efficiency. The Architect and/or Engineer may reject work if workmanship and appearance are not satisfactory.

B. Supervision: Be responsible for and coordinate the work of all subcontractors working under Division 15.

C. Installation Procedures:

1. Confer and cooperate with other trades and coordinate the work in proper relation with theirs.

2. Install all work to permit removal (without damage to other parts) of coils, furnaces, boilers, fan shafts and wheels, filters, and all other parts which might require periodic replacement or maintenance. Arrange pipes, ducts and equipment to permit ready access to valves, traps, motors and control components.

3. Offsets, transitions and changes in direction in pipes and ducts shall be made as required. Maintain proper headroom and pitch of sloping pipes together or not indicated on the drawings. Furnish and install all ductwork fittings, traps, air vents, sanitary vents, etc. as required to affect these offsets, transitions and changes in direction.

4. Under floor spaces and attic spaces containing equipment requiring access for service shall be provided with an unobstructed passageway large enough to remove the equipment, but not less than 30 inches high and 22 inches wide. The passage way shall not be longer than 20 feet in length when measured along the centerline of the passageway from the opening to the equipment.

5. Install equipment and materials in accordance with manufacturers' recommendations unless specifically indicated otherwise, where local codes or regulations take precedence. Contact engineer or record for clarification if there is a discrepancy between plans, specifications, local regulations, and or manufacturers' recommendations.

6. Conceal all piping in finished areas of the building.

D. Protection: Close ends of pipe and ductwork during construction with caps or plugs to prevent entry of foreign material. Protect insulation against damage before, during and after installation. Protect fixtures and equipment against damage during mechanical work.

1.04 REGULATORY AND CODE REQUIREMENTS:

A. Obtain all permits and licenses required for work performed under Division 15 and pay for all fees and inspections in connection with same.

B. All work shall be executed in accordance with the local, state and other attending rules and regulations applicable to the trade affected and be subject to the inspection of these departments.

C. Where work required by the Drawings and Specifications is above the standard required by local regulations, it shall be done as shown and/or specified.

1.05 CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS:

A. Use of the permanent heating system will not be allowed without approval from the Owner/Architect/Engineer. In case where the permanent heating system is approved for use as temporary heat, the General Contractor shall pay all costs until acceptance by the Owner.

B. If the permanent heating system is authorized for use, the building must be totally enclosed with final building materials in place without temporary barriers. All dust producing finish work must be complete and the source of heat supply is permanently installed. System must be sufficiently complete, including controls, to permit its safe operation as acceptable to the Mechanical Contractor. Mechanical Contractor is solely responsible for the safe operation of the system.

C. When any air handling equipment is used for temporary heat, install and maintain temporary filters. Before building acceptance by Owner, install new filters. Clean furnace and duct liner, if necessary, as determined by the Architect / Engineer.

D. Systems used for temporary heat are the Contractor's responsibility to maintain and should be put into first class working order before acceptance by the Owner.

E. Equipment warranties that start with the use of equipment for temporary heat shall be extended by the Contractor so that the Owner will have the full one year warranty from the date of acceptance of the building.

1.06 DELIVERY, STORAGE AND HANDLING:

Provide for proper storage of all materials and equipment and assume responsibility for losses due to any cause. Cover and store all equipment and materials out of the elements and off of the ground; any rusted or weather damaged item will not be permitted to be used.

1.07 PRODUCT OPTIONS AND SUBSTITUTIONS:

A. Prior to Bidding: Materials and products specified by name or manufacturer, brand or color name shall be furnished under the Contract unless changed by an Addendum or a contract modification. Where two or more materials are named, the choice of these shall be optional with the Contractor.

B. Action for substitutions specified herein will be given only after the receipt of complete data showing performance, physical dimensions and material construction. One copy of all descriptive data shall be submitted to the Mechanical Engineer's office.

C. Individual Hangers: 1. Individual hangers for copper piping, 1-1/4" and larger shall be copper plated or plastic coated steel.

2. Individual hangers for steel piping 1-1/4" and larger shall be zinc plated, adjustable swivel ring hangers.

3. Individual hangers for piping up to 1" shall be same as above or may be Sioux Strap plastic tube hangers or approved equivalent.

D. TRAPEZE HANGERS:

1. Parallel runs of piping may be supported on trapeze hangers. Hangers shall be spaced for smallest pipe in group.

2. All steel pipe shall have standard pipe straps at each support.

3. All copper pipe shall rest on neoprene sleeves and have standard pipe straps at each support.

E. Vertical Supports: Provide friction riser clamps, supported and braced. Clamps for copper piping shall be plastic coated steel. Support cast iron soil pipe at not less than every story height and at its base. Support copper tubing at six foot on center.

1.08 CLEANING:

A. Clear away all debris, surplus materials, etc. resulting from Mechanical Contractor's work or operations, leaving the job and equipment in a clean condition. This includes attic and crawlspace.

B. All surfaces of all coils, fans, air units, air filters, etc. shall be thoroughly cleaned of all foreign matter including stickers. Clean all items furnished such as floor drains, pumps, motors, traps, etc. leaving the entire installation in a first-class condition.

1.09 PROJECT RECORD DRAWING:

A. Provide at the job site one copy of Drawings, Specifications, Addenda, change orders, field orders, testing and balancing report, and other modifications to Contract Documents.

B. Do not use Project Record Documents for construction purposes.

C. Legibly mark with red pencil or on PDF field changes, referenced to permanent and accessible features of the site or building as applicable. Do not conceal any work until required information is recorded.

1.10 OPERATION AND MAINTENANCE DATA:

A. Prepare 1 typed and hard bound copy of Operating and Maintenance Manual or Portable Document Format (PDF) to Architect for approval prior to scheduling any system demonstration for the Owner. Book shall be arranged in sequence to match the equipment schedules included in the specifications.

B. The documents shall contain, but not be limited to, the following general items; each item shall be provided with a separate index table.

1. Product data on each piece of equipment installed identified by drawing code numbers as they appear on the drawing and in the specifications. Data shall include the following: installation instruction sheets, spare parts lists, operating manuals and complete wiring diagrams.

2. All warranties provided by the manufacturer on their equipment that run longer than the one year warranty by the Contractor.

1.11 FINAL OBSERVATION:

A. When the Contractor notifies the Architect that the project is ready for a final observation, the Architect will visit the job site and will prepare a final punch list of all the items on the project that shall be finished or corrected before the project can be accepted.

B. When the Contractor notifies the Architect that all items on the above punch list have been completed and corrected, the Architect will visit the project to ascertain that all the items on the punch list have been corrected and can be accepted.

1.12 WARRANTIES:

A. All materials and equipment shall be new unless otherwise specified.

B. Provide warranty to the Owner covering the entire mechanical work to be free from defective materials, equipment and workmanship for a period of one year after Date of Acceptance. During this period, provide labor and materials as required to repair or replace defects at no additional cost to the Owner. Provide certificates in O & M Manuals for such materials or equipment which have warranties in excess of one year.

C. This warranty will be superseded by warranty modifications resulting from use of equipment for construction heat or ventilation.

1.13 OPERATING INSTRUCTIONS:

A. The Mechanical Contractor shall provide personnel for initial startup and operation of the mechanical equipment and for a trial run of the equipment to demonstrate that the equipment and associated systems are properly installed and operating as intended.

B. The Mechanical Contractor shall instruct the Owner in the proper startup, operation, observation and maintenance of all mechanical equipment installed under this contract.

1.14 BALANCING:

A. At the completion of the installation, the forced air system and hydronic system shall be adjusted, balanced and documented by a 3rd party, NABCEP accredited testing and balancing contractor. Report to engineer. All air balancing shall be done at dampers in branch ducts and plenum fittings first, then at the supply registers. Provide air quantities as shown on the drawings.

1.15 OPERATING INSTRUCTIONS:

A. Obtain all permits and licenses required for work performed under Division 15 and pay for all fees and inspections in connection with same.

system has been completed and is in full working order.

C. Adjust all air and water systems within +5% to -5% of design flow rates.

D. Mark final settings of volume dampers with permanent marking when balancing is complete.

PART 2 - PRODUCTS

Not Applicable

PART 3 - EXECUTION

Not Applicable

END OF SECTION 15010

SECTION 15050 BASIC MATERIALS AND METHODS

PART 1 - GENERAL

1.01 WORK INCLUDED:

Pipe Supports
Valves
Pipe Installation

PART 2 - PRODUCTS

2.01 EQUIPMENT MANUFACTURERS:

Equipment such as motors, pumps, gauges, valves, etc. shall be of one manufacturer or available through one manufacturer to facilitate ease of maintenance for the Owner.

D. SYSTEMS

Systems used for temporary heat are the Contractor's responsibility to maintain and should be put into first class working order before acceptance by the Owner.

E. ACCESSORIES:

Furnish access doors in all non-removable ceilings and in partitions and walls where necessary to maintain access to plumbing cleancuts, fire dampers, manual dampers, valves and other mechanical devices requiring access. Size these as required to provide adequate access for service or replacement of components.

3.10 ACCESS DOORS:

Furnish access doors in all non-removable ceilings and in partitions and walls where necessary to maintain access to plumbing cleancuts, fire dampers, manual dampers, valves and other mechanical devices requiring access. Size these as required to provide adequate access for service or replacement of components.

3.11 PIPE TESTING:

A. Test piping systems prior to concealment. Ensure that the test pressure which might damage fixtures or equipment does not reach such units by isolating them off or otherwise isolating the during the test. All tests must be done to the satisfaction of the local authorities having jurisdiction, before covering. Furnish all instruments required for testing. All hydrostatic tests to be held for a minimum of six hours without loss of pressure. Air Tests to be held for a minimum of two hours without loss of pressure. Coordinate shall be responsible for furnishing all plugs, piping, valves, hoses and pumps necessary for the required tests and for proper disposal of the water upon completion of the tests.

E. AUTHORITIES HAVING JURISDICTION:

Submit plans, calculations, and material data sheets to the Teton County Fire Marshal and the Engineer for review and acceptance.

1.03 SCOPE OF WORK

A. The work covered by this section consists of furnishing all plant, labor, supervision, materials, equipment, supplies, and incidentals necessary and required to perform all operations, including responsibility for design of the sprinkler system to the extent described in these specifications for the Installation of the Automatic Fire Sprinkler System.

B. Install UL listed or FM approved fire stopping material in each pipe opening in the building masonry walls. The fire stopping material shall have a rating of one hour or more.

1.04 DEFINITIONS AND/OR APPLICABLE PUBLICATIONS

Unless noted otherwise, the latest applicable publication of each of the following currently in effect shall apply:

NFPA 13D, 1996

PART 2 MATERIALS AND EQUIPMENT

2.01 PIPING

Piping 3/4" through 1-1/2" shall be copper, Type K, ASTM B75 in exposed areas and CPVC (UL listed) ASTM F442, as allowed by its listing, in concealed spaces.



PO BOX 4594
JACKSON, WY 83001
307-699-1110

ROSCOE RESIDENCE
6165 BURCHER ROAD
WILSON, WY 83014

PROJECT INFO:

PROJECT NO.: 2227
DRAFTED BY: IS
REVIEWED BY: JGT

PLAN VERSION DATE
PERMIT SET 3.923

- 3.05 TESTS:**
All portions of the sprinkler system shall be tested in accordance with the NFPA 13, in the presence of the authorized Engineer's representative. The standard NFPA 13 forms for acceptance testing of a sprinkler system shall be completed and submitted to the Engineer for record.
- 3.06 SUBMITTALS:**
A. The contractor shall submit the following items of information to the Engineer for approval and/or record file in accordance with "General Conditions".
1. Design: The Contractor shall submit design information as described in NFPA 13 for approval by the Engineer. Review and acceptance by the Engineer of the design shall not relieve the Contractor of responsibility to meet the design requirements or for the proper operation of the system.
2. Shop Drawings and Hydraulic Data Sheets: Shop Drawings shall show the sprinkler system in complete detail, and shall be accompanied by erection or installation diagrams, and other applicable information, as outlined in NFPA 13, Sections 1-9 and 7-3-3, necessary for the Engineer to evaluate the Contractor's submittal. The Contractor shall be responsible for all drawings and for the correctness, completeness and installation or erection in the field. Data sheets: Furnish complete hydraulic design data sheets in a similar format to that shown in NFPA 13, Fig. A7-3.3 and A7-4.3.
3. Operating and Maintenance Manuals, Spare Parts List, and Special Tools:
a. The Contractor shall furnish, for each item of installed equipment, four copies of brochures consisting of operating and maintenance instruction, recommended spare parts list for a period of one year, and a list of any special tools required to maintain the equipment.
b. Where special tools are required, the Contractor shall furnish two such tools to the Owner as required at no additional contract cost.
c. A copy of NFPA 25-1995 and the shop drawings are required to be attached to the sprinkler riser.
4. Certified Test Results: The Contractor shall submit certified test results in accordance with this specification.
- END OF SECTION 15300
- SECTION 15400 PLUMBING**
- PART 1 GENERAL**
- 1.01 WORK INCLUDED:**
A. Furnish, install and test all equipment, piping and piping specialties as specified in this Section and/or as indicated on the drawings pertaining to this Division.
B. The work covered in this Section shall include, but not be limited to, furnishing and installing the following materials and equipment:
Sanitary Sewer System
Water Distribution System
Plumbing Fixtures, Rough-in, Setting and Connection
Floor Drains, Hydrants, Etc.
- PART 2 PRODUCTS**
- 2.01 WATER PIPING MATERIALS:**
A. Piping Outside Building: All pipe outside the building shall be Type "K", soft draw copper using silver solder (15% silver composition) and 3c-5, available from ASTM B260-61. An acceptable alternate is polyethylene service pipe conforming to the requirements of AWWA Specification C-901, "Polyethylene (PE) Pressure Pipe, Tubing and Fittings, 1/2 inch through 3 inch for water." Tubing shall be class 200 with SDR of 7.3.
B. Piping Inside Building: All domestic cold water and hot water piping within the building above grade shall be Type "L" hard drawn copper pipe with wrought copper fittings with 95-5 (tin/antimony) or Canfield 100% Watersafe solder. An acceptable alternate is non-barrier cross linked polyethylene. Tubing and fittings shall meet ASTM F876 and ASTM F877. All domestic cold water and hot water piping buried below slab on grade shall be Type "K" copper with no joints and be wrapped with foamed plastic insulation.
C. Valves and Specialty Schedule:
1. Gate Valves: Bronze, Class 125, 200 psi W.O.G. screwed or solder.
2. Ball Valves: Bronze, Class 125, chromium plated, brass ball with reinforced teflon seats and adjustable stem packing and stainless steel handle.
3. Check Valves: Bronze, Class 125, 200 psi W.O.G. screwed or solder, horizontal swing renewable disc.
4. Pressure Gauges: Dial gauges shall be 4-1/2" dial size with gauge line valves and pitot. Danton 101 or approved equivalent.
5. Thermometers: Adjustable angle industrial thermometer with brass case, red-reading mercury and separable socket. Thermometers shall be graduated from plus 20 deg. F to 200 deg. F. U.S. Gauge MN-9 or approved equivalent.
6. Dielectric Unions and Flanges: Unions rated for 250 psi with galvanized or plated steel threaded ends, copper soldered end and impervious isolation gasket approved for use on gas, oil, air and water lines. Flanges to be complete with insulated bolt sheaves, washers and gaskets.
7. Strainers: 250 lb. bronze or cast iron "Y" type screwed with stainless steel screen.
8. Governor: Shall comply with ANSI Z21.80/ CSA 6.22 and suitable for use with natural gas and LPG.
- 2.02 SOIL WASTE AND VENT MATERIALS INSIDE BUILDING:**
A. Schedule 40 ABS DWV plastic pipe and fittings (ASTM D2661) or Schedule 40 PVC DWV plastic pipe and fittings (ASTM D2665). All pipe and fittings shall bear NFS-DWV mark and shall be joined with solvent weld joints as recommended by the manufacturer.
B. Service weight hubless cast iron with gasket and clamp fittings.
C. Cleanouts: Bronze plug cleanout with nickel brass frame in floors. Provide carpet cleanout marker in areas with carpet. Wall cleanouts shall have stainless steel cover in finished areas. Josam or approved equivalent.
- 2.03 BUILDING SANITARY MATERIALS OUTSIDE THE BUILDING:**
PVC gravity sewer pipe complying with ASTM D-3034.
- 2.04 FIXTURES AND EQUIPMENT:**
See Schedule On Architectural Drawings.
- PART 3 EXECUTION**
- 3.01 WATER PIPING:**
A. Water Service:
1. Provide new water service as indicated on the plans. Provide shutoff valves and valve box where shown.
2. Provide piping outside the building with not less than seven feet of cover from finished grade. Surround pipe with 4" of clean sand. Provide 2" thick by 2" wide insulating blue board over full length of water service outside of building.
B. Inside Building:
1. All piping shall be pitched 1" in 40 feet insofar as possible and shall be provided with drains at all low points for complete drain down. Drains shall be located in accessible locations.
- Run piping as direct as possible to required connections.
2. Provide plastic pipe isolators at framing penetrations in walls and floors.
- C. Valves and Fittings:**
1. Gate valves, plug valves or ball valves may be used for shut-off service. Valves utilizing lever handles shall be installed to allow complete open to close valve operation without interference of structure, insulation, etc.
2. Ball valves shall be used for balancing service.
3. Install unions at all equipment connections when union trim is not furnished as a standard part of the equipment trim or where items cannot be removed from line without unions.
4. Isolate connections between ferrous piping and nonferrous piping with dielectric unions or fittings.
5. Provide unions at connections to fixtures and equipment including valves when union trim is not furnished as a standard part of the equipment trim or where items cannot be removed from line without unions.
6. Dielectric unions shall be used at all connections of ferrous material to non-ferrous material.
7. Couplings can be used wherever unions are not required.
8. Pressure gauges and thermometers are to be used wherever shown on drawings and shall be located in an accessible position.
- 3.02 SOIL, WASTE & VENT PIPING INSIDE BUILDING:**
A. Slope: Main lines within the building: provide a uniform fall of not less than 1" in 8 feet. Branches: provide a uniform fall of not less than 1" in 4 feet for 3" and smaller and 1" in 8 feet for sizes 4" and larger.
B. Fixtures: Vent in accordance with sound plumbing practice and applicable codes. Do not install vents within two feet of roof edge. Coordinate exact location with Architect.
- 3.03 BUILDING SANITARY SEWER PIPING OUTSIDE BUILDING:**
A. Cleanouts: Provide cleanouts at 100 foot intervals.
- B. Flushing and Cleaning: Flush and clean sewer lines and remove debris before final connection into the existing sewer or septic system is made.**
- 3.04 FIXTURES AND EQUIPMENT:**
A. Fixtures:
1. Install all fixtures and/or rough in according to the fixture schedule. Some plumbing fixtures may require larger pipe sizes than shown on the fixture connection schedule on the drawings. Coordinate with the fixture manufacturer.
2. All fixtures shall be secured to walls and floor or counter tops in accordance with manufacturer's roughing in and setting requirements to form a rigid installation.
3. All pipe at the fixtures which may be exposed to view shall be brass chrome finish, finished with chrome escutcheons where they project from walls and floors.
4. Stop valves shall be furnished and installed at all fixtures, for all equipment and at rough in locations.
5. Integral vacuum breakers shall be provided at all outlets with hose connections.
6. Install water, waste and vent lines to refrigerator and ice machines as required by the manufacturer.
- B. Water Heater: Make connections between water heater and domestic water piping system with dielectric unions when dissimilar materials are jointed. Furnish and install copper drain piping from temperature and pressure relief valve for water heater. Drain piping to be same size as relief valve outlet.
- C. Miscellaneous Items:**
1. Backflow Preventer: All bronze construction with stainless steel internal parts. Built-in strainer. Reduced pressure principle. Watts Model 909 or approved equivalent.
2. Pressure Reducing Valve: 1/2" bronze body pressure reducing valve with integral strainer and built-in check valve. Maximum working pressure of 75 psi and operating temperature of 200 F. Amtrol Model 10F or approved equivalent.
3. Air Purger: Purger shall be same size as line in which purger is installed. Maximum working pressure of 90 psi. Spirovent or approved equivalent.
4. Air Vents: Float-type vent with built-in check valve for manual or automatic venting. Maximum water pressure 50 psi. Amtrol Model 700 or approved equivalent.
5. Differential Pressure Regulator: Brass valve body with thermoplastic and stainless steel parts. Diaphragm of EPDM. Maximum temperature 230 F. Maximum working pressure 14.1, regulating pressure range 0 to 17 psi. Used to eliminate excessive pump head pressure due to reduced zone demand. Honeywell Model D146M1032-3/4", D146M1040-1 1/4".
6. Flexible Connections: Connectors shall be UL approved 32 oz. per yard, fire-retardant, neoprene coated fiberglass.
7. Turning Vanes: Formed double wall blades constructed of minimum 20-gauge galvanized steel. For metal ductwork other than steel, use same type of material as duct. Vanes on 3-1/4" centers.
- E. Equipment Schedule**
See Schedules on Drawings
- PART 3 EXECUTION**
- 3.01 PIPEWORK:**
A. Piping:
1. Grade and valve all water piping systems with 3/4" hose and end valves to permit complete drainage of the system. All high points in equipment rooms shall be vented with automatic air vents piped to convenient drain. All high points in system outside of equipment rooms to be vented with combination automatic/manual air vents to relieve air in the system.
2. Upon completion, thoroughly clean plumbing fixtures and equipment.
3. Adjust faucets, showers and toilets for proper flow after cleaning and flushing operations are accomplished.
4. Upon completion of water heater installation, verify satisfactory control operation under maximum demand operation as recommended by manufacturer. Adjust discharge water temperature.
5. Adjust balancing valves in domestic hot water recirculation lines to insure quick delivery of hot water to fixtures. Set memory stops.
- B. Valves and Specialties:
1. Ball valves may be used in lieu of gate valves on all water services for shut off service wherever the pressure and temperature ratings are satisfactory. Valves utilizing lever handles shall be installed to allow complete open to close valve operation.
2. Balancing shut-off, ball valves shall be used for balancing service on lines 2" and smaller. Balancing shut-off shall be used for balancing service on lines 2" and larger. Provide adjustable memory stops on all valves used for balancing service. Plug valve symbols are used on drawings.
3. Unions or flanges are to be used wherever necessary and in piping at all equipment so that piping may be conveniently broken and moved to facilitate equipment maintenance.
4. Dielectric unions are to be used at all connections where ferrous material is connected to non-ferrous material and where ferrous material is connected to domestic water piping. Couplings can be used wherever unions are not required.
5. Pressure Gauges, Thermometers and Press-Temp. Taps are to be used wherever shown on drawings. Gauges and taps shall be installed in pipe immediately before and after equipment with no valve or fitting between gauge or tap and equipment. Taps shall be located in an accessible position.
- 3.02 RADIANT FLOOR SYSTEM:**
A. Furnish, design and install in accordance with the recommendations of Uponor, Stadler Radiant Heating System, Roth or Ranau. Snowmelt tubing must be installed in a reverse return pattern.
B. Space "tails" evenly to provide even heat distribution.
C. Secure piping to subfloor at sufficient intervals to minimize movement prior to concrete pour by approved fasteners.
D. All tubing joints and fittings should be accessible and above the slab.
E. Protect tubing passing through doorways with metal plates in areas that will be carpeted.
F. Cover ends of tubing with caps or tape to keep out foreign materials during construction.
- PART 2 PRODUCTS**
- 3.01 PIPING MATERIALS:**
A. Low Temperature (250 F and less): Copper piping shall be used as outlined below.
1. Hot water heating piping: Type "L" copper with wrought copper fittings and 95-5 (tin/antimony), 96-4 (tin/silver) or Canfield 100% Water safe (silver-tin-copper) solder. Where copper pipe is joined to brass use silver solder (45% silver composition and Bwg-1 classification), ASTM B260-62T.
2. Drain pan piping: Type "M" copper with wrought copper fittings and 95-5 (tin/antimony) solder on all lines not buried.
- G. Protect piping from damage prior to and during final pour.
H. Maintain continuous 60 psi hydrostatic test during all concrete pours to detect ruptures.
- I. The General Contractor shall do all framing required for manifolds. This Contractor is responsible for correct and timely layout for all framing required for this work. No structural members shall be cut.**
- J. All radiant floor zones shall be adjusted and balanced to meet the specified flows. Balancing shall be continued until the results are approved by the Architect.**
- K. The Contractor shall place all equipment in operation and shall operate it for sufficient time to demonstrate that it functions in accordance with the design requirements.**
- L. Tubing in wood floor applications shall be installed a minimum of 1" away from the wood sleepers.**
- END OF SECTION 15600
- SECTION 15800 AIR DISTRIBUTION, HEATING VENTILATING AND AIR CONDITIONING**
- PART 1 GENERAL**
- 1.01 WORK INCLUDED:**
Provide all labor, material, equipment, accessories and tests necessary to completely execute all work which shall include, but not be limited to, the following:
Air Handling Unit
Exhaust Fans
Registers
Air Filters
Registers, Grilles and Diffusers
Ductwork and Accessories
- PART 2 PRODUCTS**
- 2.01 MATERIALS AND EQUIPMENT:**
A. General:
1. Steel ductwork shall be constructed of galvanized sheet steel. Duct systems gauges shall be in accordance with SMACNA HVAC Duct Construction Standards Manual.
2. Aluminum duct shall be constructed of commercial designation 3003 temper h14, sheet aluminum.
- B. Radiant Floor System:
1. Furnish, design and install in accordance with the recommendations of Uponor, Stadler Radiant Heating System, Roth or Ranau.
- C. Duct Liner:
1. Rectangular ducts are insulated on the inside of the duct to provide an insulation barrier and to help attenuate fan noise. Duct mains with duct wrap are not an approved substitute. Insulate as described below.
a. Insulate all rectangular supply and return ducts unless otherwise noted on drawings.
b. The liner shall be applied to the inside of the duct, with the spray face to the air stream, with non-flammable, sprayable, duct liner adhesive completely coating the clean sheetmetal. The liner shall further be fastened with stud weld or spot weld on type pins and clips, centered in the upstream transverse edges of the liner and spaced at a maximum of 15" on center and 15" from longitudinal joints. The upstream transverse edges and clips shall be sealed with vapor barrier adhesive.
c. All joints in the liner shall be tightly butted AND SEALED WITH ADHESIVE.
d. Leading edges of insulation at fan discharge shall be provided with sheet metal edge cover.
- D. Duct Wrap:
1. Round supply and return ducts, exhaust ducts and outside air ducts shall be insulated on the outside. See Section 15250, Insulation.
2. Insulate the outside of all exhaust fan ducts.
- E. Flexible Ducts:
1. Attach all flexible ducts inner liner to duct connectors, diffusers necks or ductwork as recommended by the manufacturer. Tape outer vapor barrier securely over clamp with vapor barrier tape.
2. Maximum length of any section of flexible duct to be seven feet. Provide rigid round duct on takeoffs as required to maintain maximum length. All elbows shall be made with sheetmetal.
3. Flexible ducts may only be used where shown on the drawings. See details on drawings.
- END OF SECTION 15800
- SECTION 15900 TEMPERATURE CONTROLS**
- 1.01 WORK INCLUDED:**
A. The temperature control system, electric and electronic, shall be comprised of a complete system, furnished and installed by the Temperature Control Contractor.
- B. The Temperature Control Contractor shall be responsible for all control work and for its proper operation of all work performed in Section 15600 and 15800. It is the responsibility of this contractor to coordinate with these trades and be responsible for the proper operation of the system.
- C. Either one of the sub-contractors in Division 15600 or 15800 may act as the Temperature Control Contractor. It is the responsibility of these contractors to coordinate their responsibilities prior to bidding the project.
- D. The Temperature Control Contractor shall comply with the National Electric Code and meet all local code requirements.
- E. Thermostats shall be mounted in locations where heat gain from refrigerators, lighting dimmers, etc will not effect their operation.
- 1.02 ACCEPTABLE EQUIPMENT:**
A. This specification is based on Tekmar, Honeywell and Uponor equipment. Other shall be approved by the Consulting Mechanical Engineer before bidding. It is recognized that packaged equipment comes with other names or controls and some functions are accomplished with other named components. This specification does not intend to prohibit this practice.
- B. The Temperature Control Contractor shall provide all control relays, transformers, etc. as necessary to provide complete working system.
- C. Submit shop drawings of equipment, control panels and complete wiring diagrams to the Consulting Mechanical Engineer for review. A copy of the as-built drawings shall be included in the Owner's Manual.
- 1.03 SEQUENCE OF CONTROL:**
- A. Boilers: The electric boilers shall be controlled by its integral dual temperature boiler controller including outdoor temperature sensor and outdoor reset controls. Boilers and circulator pump shall be on anytime there is a demand for heat from the radiant floor or domestic hot water. Controls shall provide for different patterns of staging of the boilers. Some of the boilers receive a signal to turn on; their respective pump shall stay on while the boilers cycle to maintain their setting. The system pump, radiant pump, and boiler shall be off when the outdoor air temperature is above the warm weather shutdown temperature setpoint and there is no call for domestic hot water. Provide all necessary relays and field controls.
- B. Radiant Floor: The radiant floor thermostats shall control the circuits in their respective zones. On a call for heat, the zone valves will open and the radiant pump shall turn on. The boiler shall modulate to regulate the supply water temperature as a function of the outdoor air temperature.
- C. Ductwork Application:
1. All supply and return ductwork to be galvanized steel.
2. All dryer exhaust ducts to outside of building to be aluminum. Flexible ducts will not be allowed.
- END OF SECTION 15900

PROJECT NO.: 2227
DRAFTED BY: IS
REVIEWED BY: JGT
PLAN VERSION DATE
PERMIT SET 3.923

PROJECT NO.: 2227
DRAFTED BY: IS
REVIEWED BY: JGT
PLAN VERSION DATE
PERMIT SET 3.923

PROJECT INFO:

ROScoe RESIDENCE

6165 BURCHER ROAD

WILSON, WY 83014

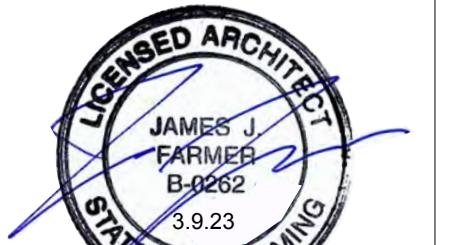
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Jackson Hole
260 West Broadway, Suite A
Jackson, WY 83001
T:307.264.0060

Sun Valley
351 Lincoln Street, Suite 204
Ketchum, ID 83340
T:208.214.5155

Louisiana
910 Pierre du Ruisseau Rd, Suite 410
Shreveport, LA 71106
T:318.383.3100

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ARCHITECT STAMP**FOR CONSTRUCTION**
BUILDING PERMIT**R O S C O E
R E S I D E N C E**

6165 Burcher Rd
Wilson WY 83014

ELECTRICAL/MECHANICAL NOTES

01. All exterior wall sconces to be fully shielded exterior downlight sconce mounted with the top of fixture @ 8'-0" above walking surface in accordance with Teton County LDR Sec. 5.3.1, and Town of Jackson Standards.

02. Provide carbon monoxide detectors as shown on the plans and provide interconnectivity in accordance with IRC 2021 Sec. R315.

03. Provide smoke detectors as shown on the plans and provide interconnectivity in accordance with IRC 2021 Sec. R314.

04. Switching/lighting controls to be confirmed on site with Owner, Contractor and Architect.

05. Outlets @ 12" AFF, Switches @ 42" AFF, Vf w/ Owner.

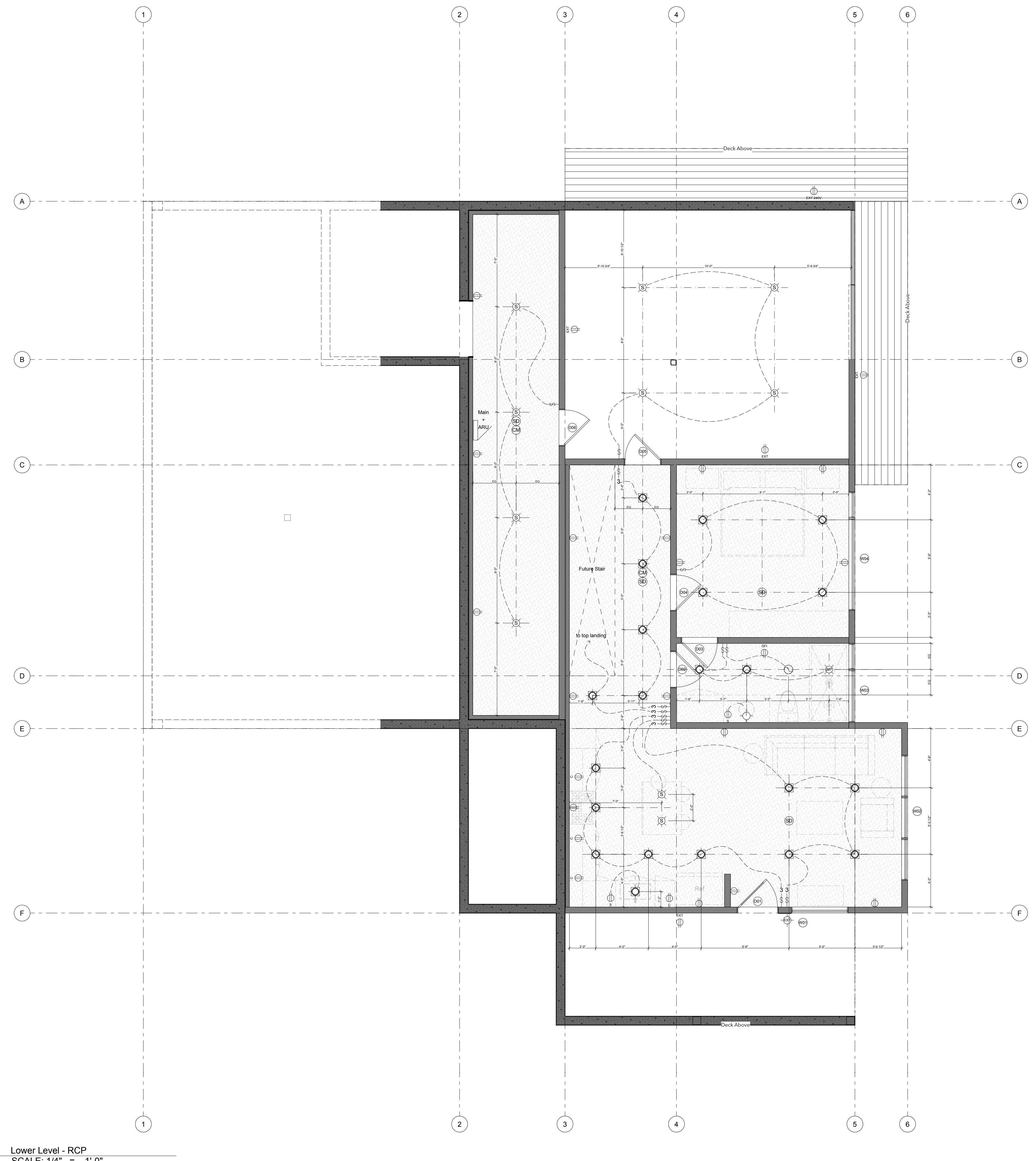
ELECTRICAL LEGEND

- Fully Shielded Ext. Wall Mount Downlight Sconce
- Wall Mount Sconce
- Wall Mount Sconce : Activated on Door Switch
- Surface Mounted Fixture
- Surface Mounted Waterproof Fixture
- Recessed Can Fixture
- Under-Cabinet Strip Lighting
- Track Lighting
- Smoke Detector
- Carbon Monoxide Detector
- Exhaust Fan w/ Light
- Thermostat
- Standard Duplex Outlet
- Standard Duplex Outlet - Counter Height
- Standard Duplex Outlet w/ Switch - Counter Height
- Standard Quad Outlet
- 240 V Outlet
- Ground Fault Interrupt Duplex Outlet
- Exterior Rated Duplex Outlet
- Floor Outlet
- Single Pole Switch
- Three Pole Switch
- Four Pole Switch
- Ceiling Fan

DATE: 3/9/23
PROJECT #: JH2203
DRAWN: RHW
ISSUE: Building Permit Set 3.9.23

E100

Lower Level - RCP



Jackson Hole
260 West Broadway, Suite A
Jackson, WY 83001
T:307.264.0060

Sun Valley
351 N Lincoln Street, Suite 204
Ketchum, ID 83340
T:208.214.5155

Louisiana
910 Bienville Blvd, Suite 410
Shreveport, LA 71106
T:318.383.3100

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R O S C O E
R E S I D E N C E
6165 Burcher Rd
Wilson WY 83014

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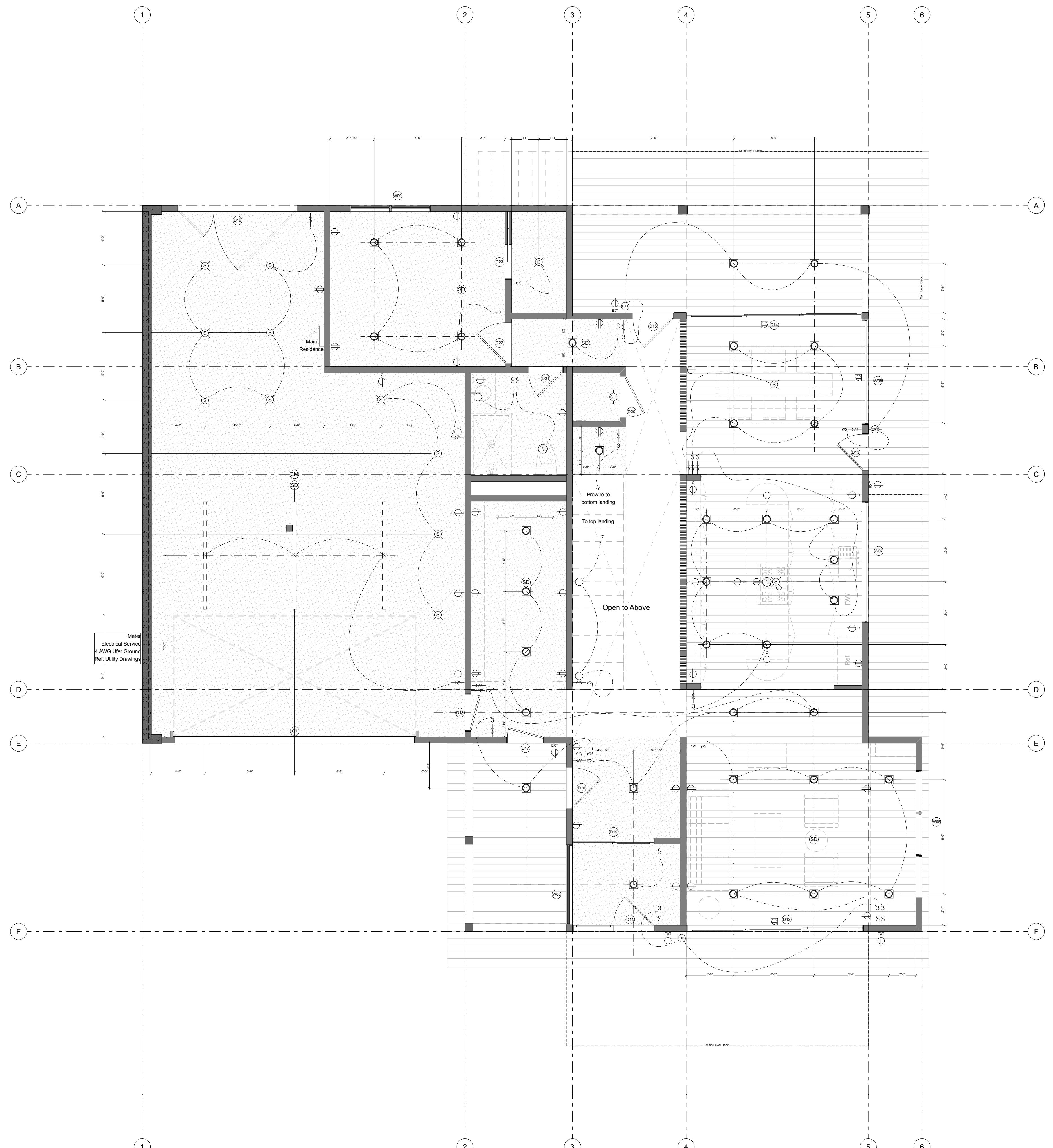
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- Standard Quad Outlet
- 240 V Outlet
- Ground Fault Interrupt Duplex Outlet
- Exterior Rated Duplex Outlet
- Floor Outlet
- Single Pole Switch
- Three Pole Switch
- Four Pole Switch
- Ceiling Fan

DATE: 3/9/23
PROJECT #: JH2203
DRAWN: RHW
ISSUE: Building Permit Set 3.9.23

E101
Main Level - RCP

N
 V5
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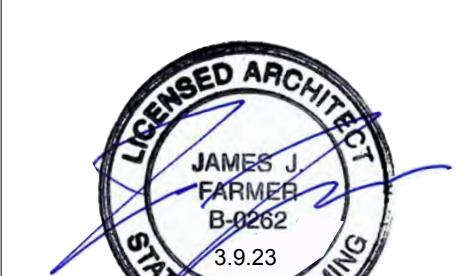


Jackson Hole
260 West Broadway, Suite A
Jackson, WY 83001
T:307.264.0060

Sun Valley
351 N Lincoln Street, Suite 204
Ketchum, ID 83340
T:208.214.5155

Louisiana
910 Pierre du Lac Rd, Suite 410
Shreveport, LA 71106
T:318.383.3100

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ARCHITECT STAMP**FOR CONSTRUCTION**
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R O S C O E
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6165 Burcher Rd
Wilson WY 83014

ELECTRICAL/MECHANICAL NOTES

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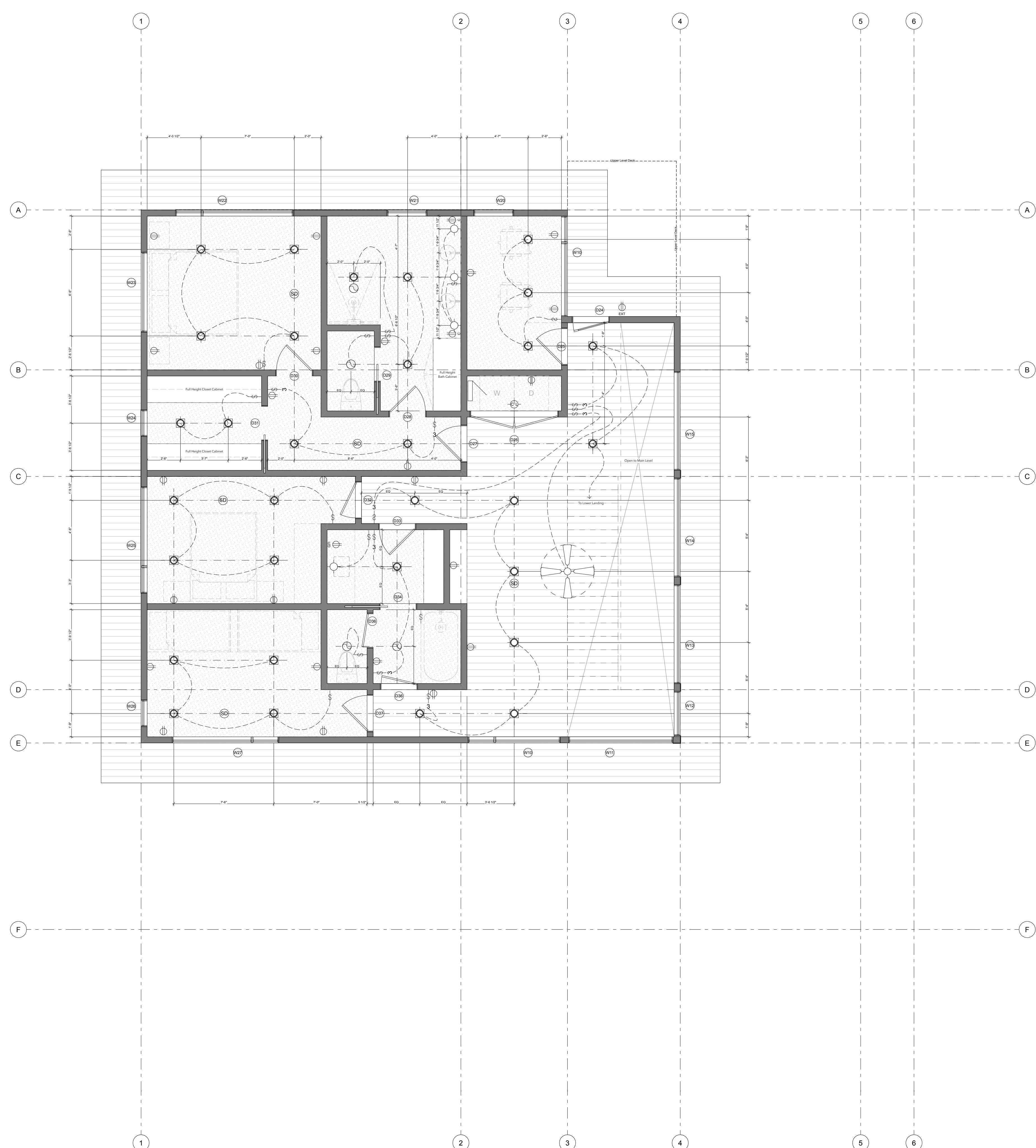
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ELECTRICAL LEGEND

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- Wall Mount Sconce
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- Standard Duplex Outlet
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- 240 V Outlet
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- Exterior Rated Duplex Outlet
- Floor Outlet
- Single Pole Switch
- Three Pole Switch
- Four Pole Switch
- Ceiling Fan

DATE: 3/9/23
PROJECT #: JH2203
DRAWN: RHW
ISSUE: Building Permit Set 3.9.23

E102
Upper Level - RCP



Jackson Hole
260 West Broadway, Suite A
Jackson, WY 83001
307.264.0080Sun Valley
351 Lincoln Street, Suite 204
Ketchum, ID 83340
208.241.5155Louisiana
910 Pierre du Lac Rd, Suite 410
Shreveport, LA 71106
318.383.3100

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ARCHITECT STAMP**FOR CONSTRUCTION**
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R O S C O E
R E S I D E N C E

6165 Burcher Rd
Wilson WY 83014

DATE: 3/9/23
PROJECT #: JH2203
DRAWN: RHW
ISSUE: Building Permit Set 3.9.23

E103
Electrical Calcs & Lighting
Specifications

Outdoor QB LED Up and Down Wall Sconce
By Bruck Lighting

LUMENS
Call Us (877) 445-4486

Outdoor QB LED Up and Down Wall Sconce
By Bruck Lighting

Product Options

Finish: Anthracite

Details

Up and downlight
Includes onboard driver
Overload protection
Overheat protection
Short Circuit protection
Mount to 3.5"-4" octagonal recessed J-Box
Can be installed horizontally or vertically
Material: Extruded Aluminum
UL Listed
Warranty: 5 Year Limited Fixture Warranty
Made In China

Dimensions

Fixture: Width 5.13", Height 5.13", Extension 5.13"

Lighting

Lamp Type	LED Built-in	
Total Lumens	220	
Total Watts	9.60	
Volts	120 /277 Volt	
Color Temp	3000 (Soft White)	
Average Lifespan (Hours)	39,000	235
CRI	80	
Equivalent Halogen, CFL or LED Bulb Can Be Used	No	

Additional Details

Product URL:
<https://www.lumens.com/outdoorqb-led-up-and-down-wall-sconce-by-bruck-lighting-BLS637052.html>

Rating: UL Listed Wet

ITEM#: BLS637052

Exterior Lighting
Max lumens allowed onsite = .5 lumens per sqft of site development

Total Site Development = 4300sqft
Total lumens allowed on Site = 2150 lumens

Exterior Wall Sconce 4 @ 220 = 880
Exterior Recessed Fixture 3 @ 400 = 1200

Notes:

Prepared by: _____
Prepared for: _____
Project: _____
Room: _____
Placement: _____
Approval: _____

LED ULTRA SLIM RECESSED LIGHTS
RSL SERIES

FEATURES:

- Multi CCT, selectable switch on the back of the driver
- Available in 4", 6", 8", 10", 12" smooth recessed trims
- Isolated driver for improved thermal management
- Spun aluminum white powder coat finish

LIGHTING:

- Dimming: TRIAC dimming - Dimmable using standard LED dimmers. (Except 8 inch units are 0-10v dimmers only)
- Lens: 0.125" White translucent acrylic
- Can rotate after installation to align
- LED: Seoul DOB (Driver On Board) technology
- Optics: White translucent acrylic
- Color temperature: 2700K/3000K/3500K/4000K/5000K
- Multi CCT (Selectable switch on the back of the driver)
- Color rendering index: CRI >80
- Beam Angle: 100°-110°
- Photometrics available upon request

APPLICATION:

- LED recessed trims have been designed to be a flexible lighting solution for new construction applications, ideal for closets, storage areas, attics, corridors, or general lighting for residential or commercial applications.

SPECIFICATION: RSL SERIES

Size	Wattage	Lumens	Color Temperature	Voltage	LPW
3 INCH	6W	400LM	2700K 3000K 3500K 4000K 5000K	120V AC	66
4 INCH	9W	630LM		120V AC	70
6 INCH	12W	935LM		120V AC	70
6 INCH	15W	1125LM		120V AC	75
8 INCH	18W	1350LM		120V AC	75
10 INCH	20W	1500LM		120V AC	75
12 INCH	28W	2100LM		120V AC	70

1-800-545-7778 | 3530 NW 53rd St Fort Lauderdale, FL 33309 | www.superiorlighting.com Specifications subject to change, please check for updates when ordering.

Electrical Load Calculations						
6165 Burcher Rd						
LIGHTS						
Unit	Load Desc	Model	Qty	Watts Each	Watts Total	Amps
ADU	Lower Level Lights		1	1625	1,625	120
Main	Mid Level Lights		1	2925	2,925	120
Main	Upper Level Lights		1	1950	1,950	120
TOTAL					6,500	
BRANCH OUTLET CIRCUITS						
Unit	Load Desc	Model	Qty	Watts Each	Watts Total	Amps
Main	Upper Branch Circuits		2	1800	3,600	
Main	Mid Branch Circuits		4	1800	7,200	
AUD	Lower Branch Circuits		3	1800	5,400	
Main	Exhaust Fan Master Bath		1	17	17	0.14
Main	Exhaust Fan Master WC		1	17	17	0.14
Main	Exhaust Fan Guest Bath		1	17	17	0.14
Main	Exhaust Fan Guest WC		1	17	17	0.14
Main	Exhaust Fan Powder Bath		1	17	17	0.14
ADU	Exhaust Fan Bath		1	17	17	0.14
TOTAL					16,302	
APPLIANCES						
Unit	Load Desc	Model	Qty	Watts Each	Watts Total	Amps
Main	Inductive Range	Inductive Range	1	9600	9,600	40.00
ADU	Inductive Range	Inductive Range	1	9600	9,600	40.00
Main	Dishwasher		1	1800	1,800	
ADU	Dishwasher		1	1800	1,800	
Main	Garbage Disposal		1	700	700	
ADU	Garbage Disposal		1	700	700	
MAIN	Clothes Dryer		1	5000	5,000	
ADU	Clothes Dryer		1	4000	4,000	
TOTAL					33,200	
ELECTRIC VEHICLE CHARGERS						
Unit	Load Desc	Model	Qty	Watts Each	Watts Total	Amps
MAIN	Electric Car Charger		2	7200	14,400	
TOTAL					14,400	
HEATING APPLIANCES						
Unit	Load Desc	Model	Qty	Watts Each	Watts Total	Amps
Main	Air to Air Heat Exchanger	FanTech ATMO150E	1	168	168	1.40
Main	Duct Heater	THERMO-AIR TER-	1	2000	2,000	8.30
ADU	Air to Air Heat Exchanger	FanTech VH704	1	168	168	1.40
ADU	Duct Heater	THERMO-AIR TER-	1	1000	1,000	4.17
Main	Boiler	Thermolec B-30U-F	1	30000	30,000	125.00
Main	Boiler Pump	Grundfos UPS 26-9	1	125	125	1.04
Main	Water Heater Pump	Grundfos UPS 15-5	1	30	30	0.25
Main	Radiant Floor Pump	Grundfos UPS 26-9	1	125	125	1.04
Main	Glycol Feeder	Axiom MF200 RIA	1	50	50	0.42
TOTAL					33,666	
SUPPLEMENTARY HEATING EQUIPMENT						
<i>These loads are only used to offset energy used by primary heating system.</i>						
Unit	Load Desc	Model	Qty	Watts Each	Watts Total	Amps
Bitcoin Mine	Antminer s19 Pro		3	3250	9,750	13.54
TOTAL					9,750	
SUMMARY LOAD CALCS						
Lighting					6,500	
Branch Circuits					16,302	
Appliances					33,200	
Total					56,002	
Total - 10k					46,002	
(Total - 10k) * 40%					18,401	
Heating					33,666	
EV					14,400	
Calculated Wattage	(Total - 10k) * 40% + Heating + EV				66,467	
Min Service Size (Amps)	Calculated Wattage / 240				277	

Structural Abbreviations			
AB	Anchor Bolt	MC	Miscellaneous Channel
ABV	Above	MECH	Mechanical
AC	Air Conditioning	MFR	Manufacturer
ADJ	Adjacent	MIN	Minimum
ALT	Alternate	MISC	Miscellaneous
BLDG	Building	MIW	Malleable Iron Washer
BLK	Block	MFG	Manufactured
BLKG	Blocking	MTL	Metal
BLW	Below	(N)	New
BM	Beam	NIC	Not in Contract
BTM	Bottom	No	Number
BRG	Bearing	NS	Near Side
BTWN	Between	NTS	Not to Scale
CONST	Construction	oc	On Center
C	Steel Channel	OD	Outside Diameter
CB	Carriage Bolt	OPNG	Opening
CL	Center Line	OPP	Opposite
CJ	Control Joint	OW	Otherwise
CLG	Ceiling	PL	Plate
COL	Column	PLY	Plywood
CONC	Concrete	pfl	Pounds per Linear Foot
CONT	Continuous	PNL	Panel
CP	Complete Penetration	PP	Partial Penetration
CMU	Concrete Masonry Unit	psf	Pounds per Square Foot
CSK	Countersink	PTB	Pounds per Square Inch
COMP	Composite	PTDF	Pressure Treated Doug Fir Larch
DBL	Double	PT	Pont
DF	Douglas Fir	R	Radius
DIAG	Diagonal	RFTR	Rafter
DL	Dead Load	REF	Reference
DWG	Drawing	REINF	Reinforcement
EN	Edge Nail	REQ'D	Required
EA	Each	REV	Revision
EE	Each End	SAD	See Architectural Drawings
ELEC	Electrical	SCHED	Schedule
ELEV	Elevator/Elevation	SED	See Electrical Drawings
EMBED	Embedment	SIM	Similar
EQ	Equal	SMD	See Mechanical Drawings
EQUIP	Equipment	SPCG	Spacing
ES	Each Side	SPEC	Specifications
EQ	Each Way	SQ	Square
(E)	Existing	SS	Select Structural (Wood) or Stainless (Steel)
EXP	Expansion	STD	Standard
FO	Face of	STIFF	Stiffener
FOC	Face of Concrete	SN	Shear Nail
FP	Full Penetration	SHTG	Sheathing
FJ	Floor Joist	STRUCT	Structural
FTG	Footing	SW	Shear Wall
FDN	Foundation	SYM	Symmetrical
FIN	Finish	T&B	Top & Bottom
FG	Finish Grade	T&G	Tongue & Groove
FLI	Ferrule Loop Insert	THK	Thick
FN	Face Nail (Lumber) or Field Nail (Sheathing)	THRD	Thread(ed)
FOM	Face of Masonry	THRU	Through
FOS	Face of Stud	TL	Total Load
FRMG	Framing	TN	Toe Nail
FTG	Footing	TOC	Top of Concrete
GALV	Galvanized	TOF	Top of Framing
GLB	Glue Laminated Beam	TOM	Top of Masonry
HGR	Hanger	TOP	Top of Plate
HORIZ	Horizontal	TOS	Top of Steel/Slab
HS	High Strength	TOT	Total
HSB	High Strength Bolt	TOW	Top of Wall
HSFB	High Strength Friction Bolt	TYP	Typical
HSG	High Strength Grout	UNO	Unless Noted Otherwise
HSH	Horizontal Slotted Hole	VERT	Vertical
HT	Height	VSH	Vertical Slotted Hole
HDR	Header	W	Wide Flanged Steel Beam
ID	Inside Diameter	WP	Work Point
I-JST	I Shaped Wood	WT	Weight
JST	Built-up Truss	WWF	Welded Wire Fabric
L	Joist	EXT	Exterior
lb or #	Steel Angle	INT	Interior
LGMF	Pound(s)	S	American Standard Beam
LL	Light Gage Metal Frame(ing)	CGL	Certified Glued Lumber
LLH	Live Load	LSL	Laminated Strand Lumber
LLV	Long Leg Horizontal	LVL	Laminated Veneer Lumber
LLV	Long Lev Vertical	PSL	Parallel Strand Lumber
MAX	Maximum	PSL	Parallel Strand Lumber
MB	Machine Bolt	WHS	Welded Hooked or Headed Stud
MBM	Metal Building Manufacturer	WTS	Welded Threaded Stud

J Manufactured Roof Truss Notes - Continued

- Bracing shall be provided to brace the top chord of trusses where "piggy back" trusses are used.
- Bottom chord truss members having a gyp board ceiling attached shall provide a level surface with a maximum variation of 1/4" in 10' in any direction.
- Scissor or vaulted trusses, shall be designed for a maximum 1/2" total horizontal deflection under dead plus live loads. Truss manufacturer shall include deflection calculations with shop drawing submittal.

K Stone Veneer

- Where stone veneer occurs:

 1. A 2'x2"x1/8" zinc coated or non-metallic coated wire mesh with two layers of water-resistant barrier in accordance with IBC section 1404.2 shall be applied directly to wood studs spaced a maximum of 16".
 2. On studs, the mesh shall be attached with 2" long corrosion-resistant steel wire furring nails at 4" o.c. providing a minimum 1-1/8" penetration into each stud and with 8d annular threaded nails at 8" o.c. into top & bottom plates or with equivalent wire ties.
 3. There shall not be less than a 0.105" zinc-coated or non-metallic coated wire, crimped equal, attached to the stud with a minimum of ed annular threaded nail for every 2ft of stone veneer.
 4. This tie shall be a loop having legs not less than 15" in length, so bent that it will lie in the stone veneer mortar joint.
 5. The lost 2" of each wire leg shall have a right-angle bend. 1-inch minimum thickness of cement grout shall be placed between the blocking and the stone veneer.

G Wood Framing (Carpentry) Specifications - Continued

- Glue-Laminated Beams

All glulam beam shall be Douglas Fir Combination 24F-V4 for simple spans; combination 24F-V8 for continuous beams and cantilevers unless noted otherwise. Where not exposed, appearance to be industrial; where exposed, appearance to be architectural; manufactured with exterior glue conforming to the 2018 IBC, 2303. Provide ATIC certificate of inspection or equivalent to Architect and Building Department prior to erection.
- Parallel Strand Lumber (PSL)

All parallel strand lumber used for headers or beams shall conform to the following minimum properties:

Beams & Headers	Columns & Posts
$E = 2.2 \times 10^6$ psi	$E = 1.8 \times 10^6$ psi
$F_y = 2,900$ psi	$F_y = 2,900$ psi Parallel
$F_y = 2,025$ psi	$F_y = 290$ psi
$F_z = 750$ psi (Perpendicular)	$F_z = 175$ psi
	$F_z = 190$ psi
	$F_z = 425$ psi (Perpendicular)
- Laminated Veneer Lumber (LVL)

All laminated veneer lumber used for beams, joists, headers, rim or blocking shall conform to the following minimum properties:

E = 1,550,000 psi	$F_y = 2,900$ psi	$F_y = 2,900$ psi Parallel	$F_z = 2,400$ psi	$F_z = 2,500$ psi Parallel
$F_z = 2,252$ psi	$F_z = 2,252$ psi	$F_z = 2,252$ psi Parallel	$F_z = 800$ psi	$F_z = 750$ psi (Perpendicular)
10. Laminated Stamped Lumber

All laminated stamped lumber used for beams, joists, rims or blocking shall conform to the following minimum properties:

E = 1,550,000 psi	$F_y = 2,900$ psi	$F_y = 2,900$ psi Parallel	$F_z = 2,400$ psi	$F_z = 2,500$ psi Parallel
$F_z = 310$ psi	$F_z = 310$ psi	$F_z = 310$ psi Parallel	$F_z = 800$ psi	$F_z = 750$ psi (Perpendicular)

H I-Joist Notes & Bridging

- I-Joist = Built-up I-shaped joist of wood or micro-lam flanges and plywood or OSB web.
- I-Joists shall be installed per manufacturer's instructions & specifications.
- WEB stiffeners shall be installed per I-joist and joist hanger manufacturer's instructions and requirements.
- See manufacturer's details for full depth blocking details & requirements not specified herein.
- Ring joists to be of same depth as joists & 1 1/4" or 1/2" minimum thickness.
- Substitute framing systems or joists may be submitted for review. The contractor shall pay the cost for investigating & evaluating the substitution, and for any revisions to our drawings or specifications due to the substitution.
- Provide bridging at 8'-0" o.c. maximum for spans greater than 17'-0" above.
- All I-joist hangers are Simpson Strong-Tie Catalog.
- Bearing wall locations are as noted on the plans. See architectural drawings for dimensions.

I Structural Steel Specifications

- Steel Grades

Plates	ASTM A-36
Anchor Bolts	ASTM F1554
Wide Flange	ASTM A-392
Wide Flange (weathering)	ASTM A-388
Hollow Steel Sections (HSS)	ASTM A-500, Grade B
Machine Bolts	ASTM A-307 (MB)
High Strength Bolts	ASTM A-423 (HSB)
- Workmanship and details shall conform to AISC Specifications and the IBC unless noted otherwise.
- Bolt holes shall be 1/16" larger in diameter than the bolt.
- Welding electrodes shall meet AWS requirements and electrodes shall be E707CC for shielded metal arc, F7CC-XXXX for submerged arc (shop electrode), ER70S-X for gas metal arc and E7XT-CC for flux core unless noted otherwise.
- Grout under column bases to be high strength, non-shrink grout equalling or exceeding the concrete strength.
- Shop Cleaning & Painting
 - Denotes HSS column. HSS columns are to be trimmed with 2x stud attached to column with 5/8" O.D. threaded-welded studs @ 32" o.c. and 8" from ends. Use 3x minimum studs at edges of openings to allow 1" countersink of threaded-welded stud & washer. Where HSS occurs at end of shear wall provide threaded stud at 12" o.c. max in lieu of 32" o.c. Where HSS occurs at end of shear wall No. 3 or greater, provide 3x naller to allow for Plywood Nailing Detail at #51...
 - Where post occurs, provide blocking in floors to match full size of post above for full bearing.
 - Provide blocking at top of framing between noted points is a straight line.
 - All mechanical supply and return openings to be framed unless otherwise noted.
 - Denotes HSS column. HSS columns are to be trimmed with 2x stud attached to column with 5/8" O.D. threaded-welded studs @ 32" o.c. and 8" from ends. Use 3x minimum studs at edges of openings to allow 1" countersink of threaded-welded stud & washer. Where HSS occurs at end of shear wall provide threaded stud at 12" o.c. max in lieu of 32" o.c. Where HSS occurs at end of shear wall No. 3 or greater, provide 3x naller to allow for Plywood Nailing Detail at #51...
 - Where post occurs, provide blocking in floors to match full size of post above for full bearing.
 - Provide blocking at top of framing between noted points is a straight line.
 - Round holes in steel plates shall be 1/16" oversized. Slotted holes in steel plates shall be 1/16" wider than the bolt diameter and have a length of 2x the bolt diameter. The direction of the slotted length is indicated on the details (VSH or HSH). Install bolt at the center of the hole. Bolt holes in wood shall be round and 1/32" oversized. Cut off threaded bolt end flush with nut when required by fastener and 1" maximum for nut otherwise.
 - All bolted or nailed strap connections shall have an equal number of bolts or nails on each side of splice joint. The first bolt or nail from each side of the splice or strapped member shall be equidistant from the splice. Straps using 16d nails on 2x material are to be installed on the 1 1/2" edge of the member.
 - The contractor shall verify that the moisture content of all framing lumber and plywood meet the requirements of the specifications at the time of installation and at close-in. The contractor shall provide allowance for differential shrinkage between floors, etc.
 - Exterior stud wall size is 2x6 at 16" o.c. unless noted otherwise. Interior stud wall size is 2x4 @ 16" o.c. maximum unless noted otherwise. Refer to architectural drawings for specific wall assemblies and wall sizes.
 - Pre-drill lead holes for lag screws as follows:
 - The clearance hole for the shank shall have the same diameter as the shank and the same depth of penetrations as the length of unthreaded shank.
 - The lead hole for the threaded portion shall have a diameter equal to 70% of the shank diameter.
 - The threaded portion of the lag screw shall be inserted in its lead hole by turning with a wrench, not by driving with a hammer.
 - Soap or other lubricant shall be used on the lag screws or in the lead holes to facilitate insertion and prevent damage to the lag screws.
 - The contractor is expected to employ competent journeymen who are knowledgeable with respect to "Conventional Construction Practices."
- Shop Drawings
 - Submit Shop Drawings including complete details and schedules for fabrication and shop assembly of members, and details, schedules, procedures and diagrams showing the sequence of erection.
 - Include details of cuts, connections, camber, holes and other pertinent data. Indicate weld by standard AWS symbols, show size, length, and type of each weld.
 - Provide setting drawings, dimensions and directions for the installation of anchor bolts and other anchorages to be installed under other Sections of work.
 - Do not use reproductive copies of Contract documents as erection drawings.
 - Dimensions shown shall be similar to Construction documents. i.e. bolt elevations shall be dimensioned from top of steel, not the bottom bolt. This is to expedite the review process.
 - The structural engineer reserves the right to reject the shop drawings if they are incomplete or if general specifications have not been met.
 - The contractor shall review and/or approve the structural steel shop drawings prior to submission to the engineer/architect.

J Manufactured Roof Truss Notes

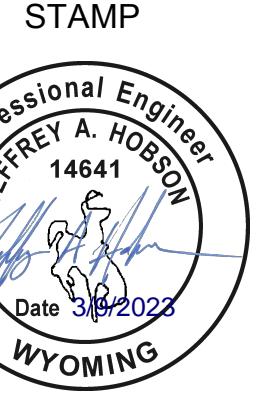
- Manufactured roof trusses are 24" o.c. maximum unless noted otherwise.
- Manufacturer shall submit the following:
 - Calculations prepared and signed by a licensed Civil or Structural Engineer (State of Wyoming). The calculations must include a design profile and hanger for each of the four truss type within the structure. Shop drawings including a load out plan shall show all truss types, locations, profiles, and hangers as called for in the calculations. Calculations shall be based upon loads, bearing points and conditions specified herein. Major revisions in layout or truss configuration will be considered a submittal. The contractor shall be responsible for cost of investigating and reviewing the adequacy of substitutions. General Contractor shall review and approve dimensions and details shown on the shop drawings prior to submittal. Submittal calculations & shop drawings to the owner's representative and Tectonic Design, LLC for review prior to fabrication. Reviewed shop drawings & shop drawings shall be submitted to the Building Department for approval prior to fabrication.
 - Truss manufacturer shall provide hangers and connectors adequate for loads for all truss to truss, truss to beam, and truss to joist connections.
 - Refer to structural plans & details for overhang dimension requirements.
 - Truss manufacturer to provide vertical web member at truss supports, bridging, and blocking as required. Truss manufacturer to provide vertical member at 24" o.c. at truss with shear wall (denoted on roof or attic framing plans).
 - Refer to architectural drawings for slope, drainage, etc.
 - Manufactured roof truss design leads (not including self-weight):
 - Top Chord Dead Load = 15 psf, Snow Load = 92.3 psf not including unbalanced loads, sliding loads, or drifting loads. Unbalanced, sliding and drifting loads shall be in accordance with ASCE 07-16 or specified herein.
 - Bottom Chord: Dead Load = 5 psf; Live Load = 10 psf (Bottom Chord Live Load does not act simultaneously with other imposed live loads).
 - Special loads and concentrated loads are as noted on the drawings. Contractor to verify all MEP unit location and weights prior to fabrication. Any MEP equipment not indicated on the structural drawings shall be brought to the attention of the structural engineer immediately.
 - The positions, weights, and methods of attachment of all mechanical units, electrical fixtures, duct openings, plumbing, fire sprinklers, etc. shall be included in the design of the trusses by the truss manufacturer and shall be verified by the general contractor. Additional trusses or special designed trusses may be required.
 - Superimposed loads from the jack trusses or secondary framing (i.e. roof overbuild, furred ceilings, etc.) shall be included in the design of supporting trusses.

D Cast-in-Place Concrete Construction - Continued

- Concrete shall be hard rock concrete and meet the following minimum ultimate compressive strength at 28 days.
 - 1.1 Aggregate: 1" #4, ASTM C33
 - 1.2 Concrete shall be Type II and conform to ASTM C 94. Minimum cement content shall be 6 bags /yd³.
 2. Concrete mix design and testing shall meet the requirements of 1903, 1905, and 1704 of the 2018 IBC, and these specifications.
 3. Concrete mix designs shall conform to ACI 301-16 and shall be provided a minimum of 72 hours prior to placement. Admixtures not noted within these specifications shall not be used without approval.
 - 3.1 Air Entraining Admixture: ASTM C260, ACI 301 for all concrete used for vehicular traffic or exposed to weather per Table above, containing no chloride ions added during manufacturing.
 - 3.2 Water Reducing admixture: ASTM C494, Type A (water reducing-normal set), or Type D (water reducing and retarding admixture) containing no chloride ions added during manufacturing.
 - 3.3 High Range Water Reducing Admixture (Super Plasticizer): ASTM C494 Type F or G (Super Plasticizer with retarder), containing not more than 0.1% chloride ions.
 - 3.4 Nonchloride Accelerator Admixture: ASTM C494, Type C (Accelerating only) or E (Water and accelerating admixture) containing not more than 0.1% chloride ions.
 4. Reinforcing steel shall conform to ASTM A-615, Grade 60 for No. 4 bars and larger and Grade 40 for No. 3 bars. Steel shall be kept clean and free of rust. Shop shop drawings for review prior to installation. Welding of reinforcing is prohibited.
 5. Welded wire fabric shall conform with ASTM A-185, and shall be lapped 12" minimum.
 6. Slabs, beams, walls and other concrete shall be kept continuously wet for 48 hours after placement and shall be kept damp for 7 days after placement. Slabs shall have curable sealer applied immediately after finishing of other finishes are not affected. When cure sealer cannot be applied, slab shall be kept continuously wet or covered with curing paper. Cure shall be of a type that will not be detrimental to sealers to be applied later.
 7. Cold weather concreting practice per ACI 306 R-2 shall be used when cold weather occurs per 7.1.
 - 7.1 A period for which the average daily outdoor temperature drops below 40° F. Note that when temperatures above 50° F occurs during more than half of any 24



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PERMIT SET

ROSSO COE RESIDENCE

6165 Burcher Rd
Wilson WY 83014

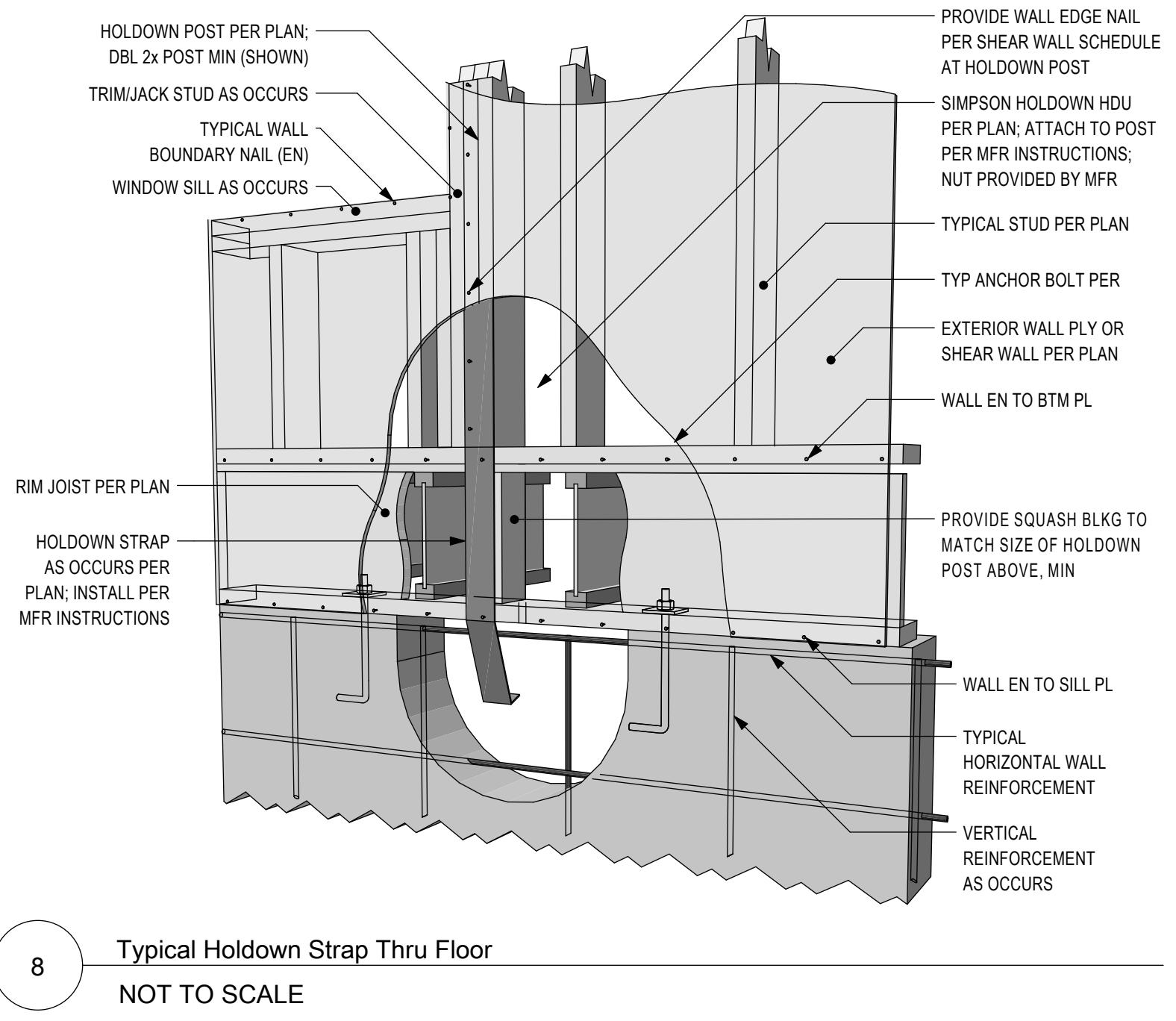
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PROJECT #: 22-011
DRAWN: JAH
ISSUE:

Building Permit Set 3.9.23

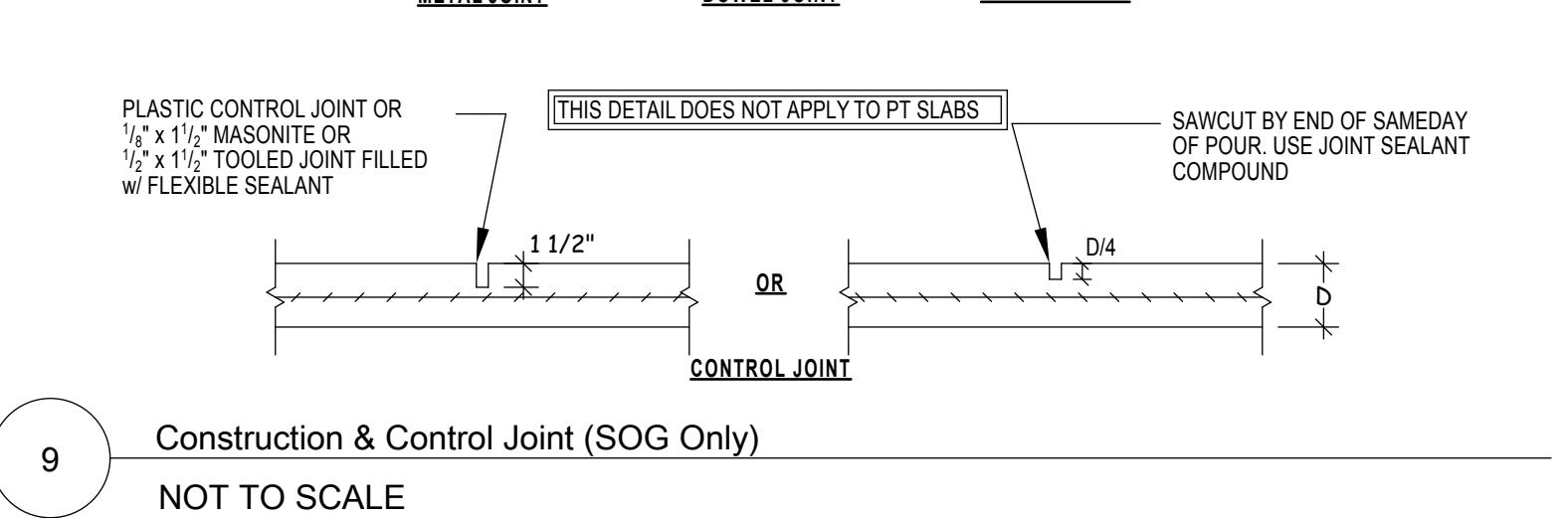
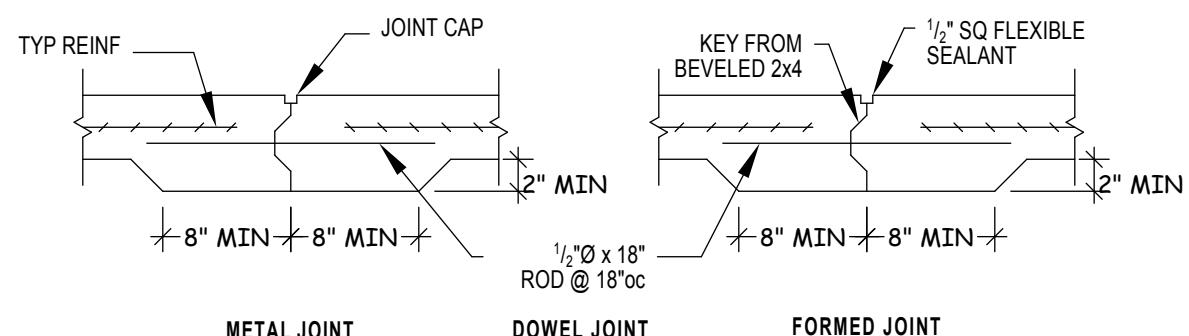
S0.1

Standard Concrete Details

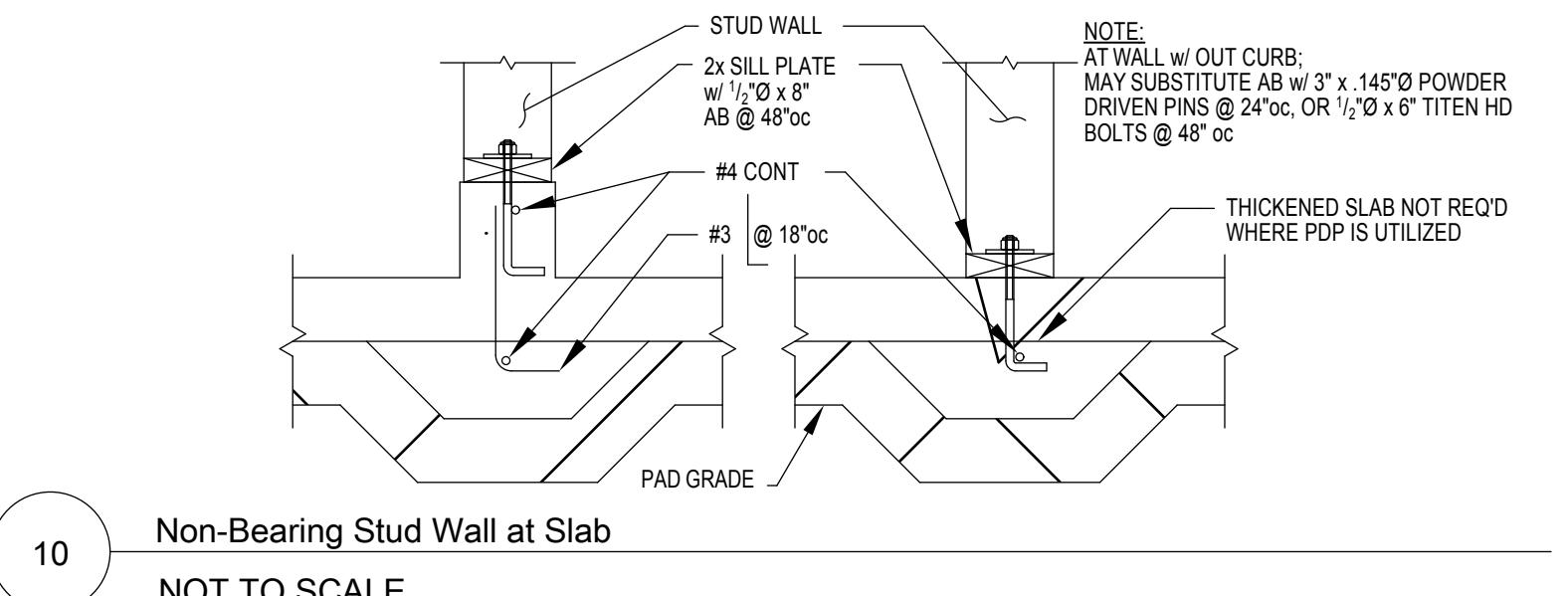
v5 © FARMERPAYNEARCHITECTS



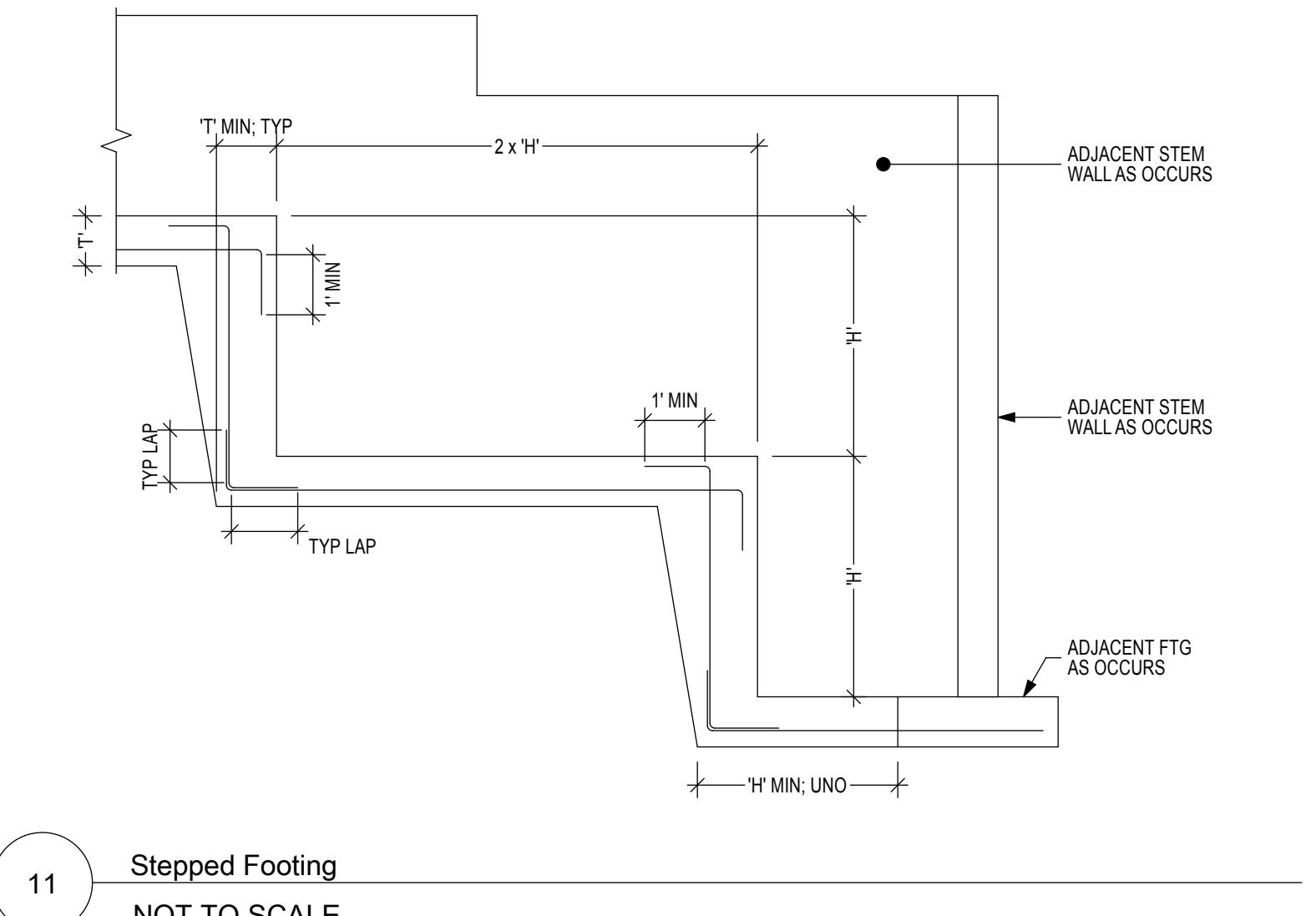
8 Typical Holdown Strap Thru Floor
NOT TO SCALE



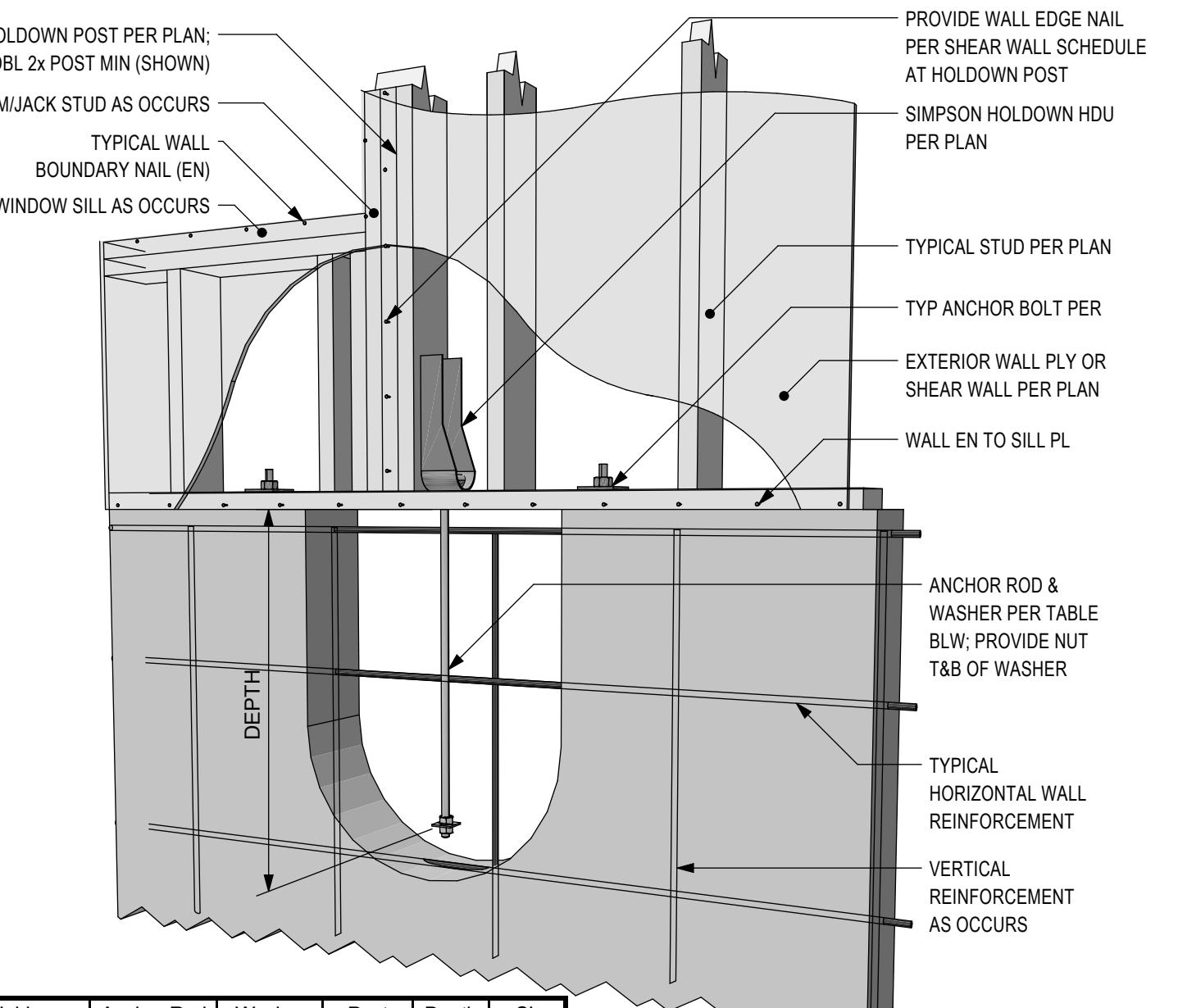
9 Construction & Control Joint (SOG Only)
NOT TO SCALE



10 Non-Bearing Stud Wall at Slab
NOT TO SCALE



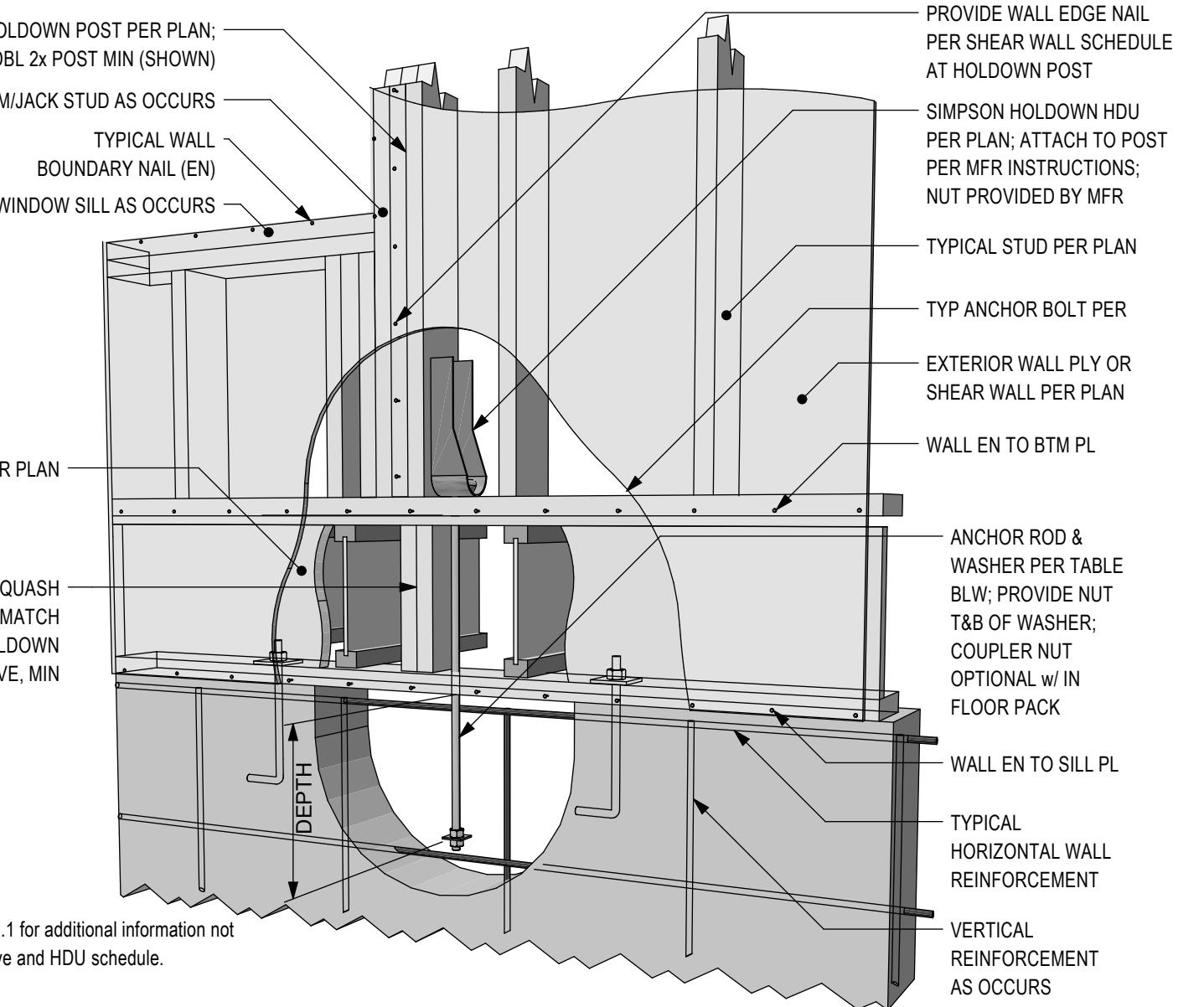
11 Stepped Footing
NOT TO SCALE



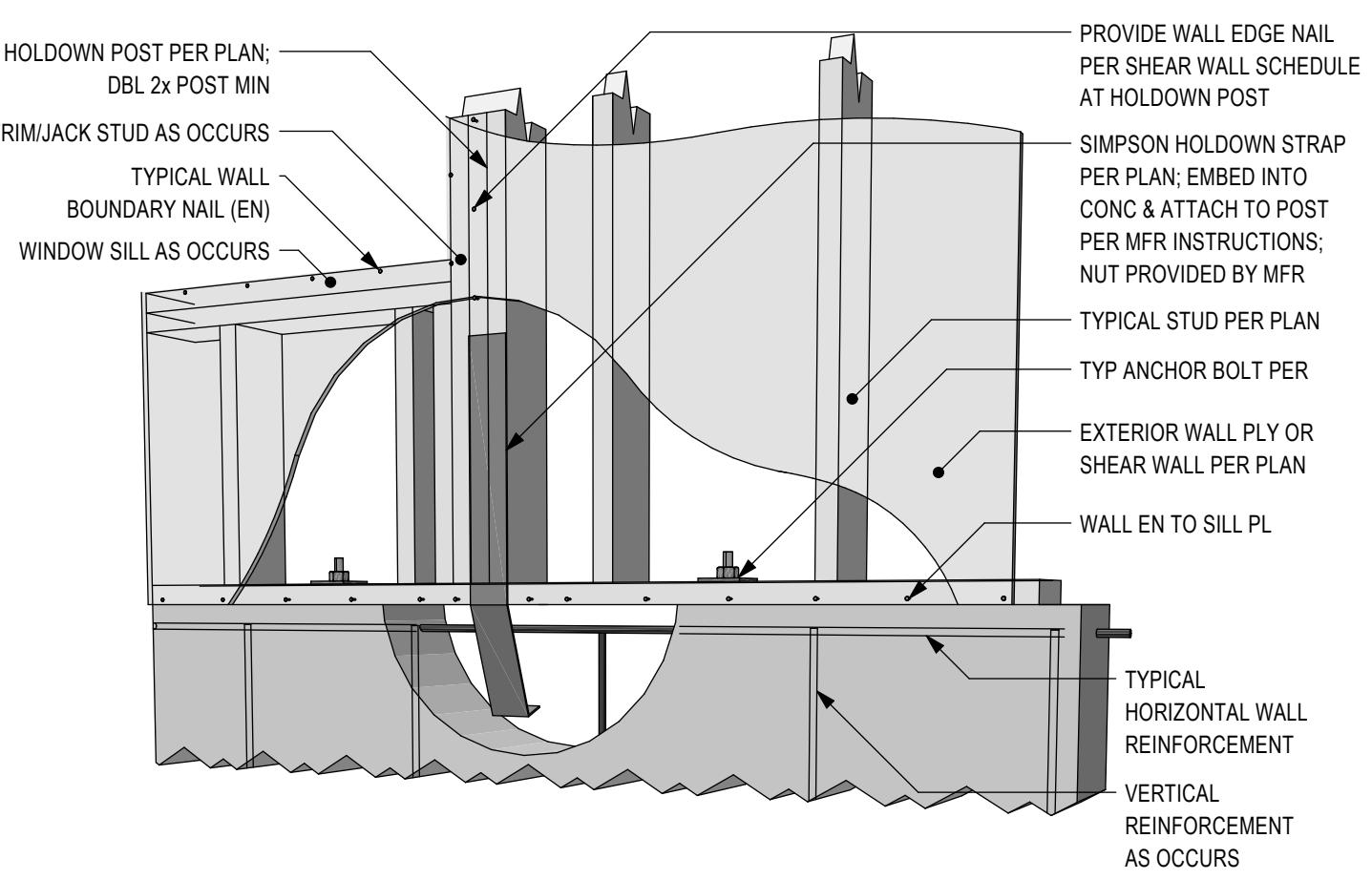
Holdown	Anchor Rod	Washer	Post	Depth	CL
HDU2	5/8"Ø (36 ksi)	1/2"x2" SQR	DBL 2x	8"	1-5/16"
HDU4	5/8"Ø (36 ksi)	1/2"x2" SQR	DBL 2x	1'-0"	1-5/16"
HDU5	5/8"Ø (36 ksi)	1/2"x2" SQR	DBL 2x	1'-0"	1-5/16"
			DBL 2x	1'-2"	
HDU8	7/8"Ø (36 ksi)	1/2"x2" SQR	4x	1'-4"	1-3/8"
			TRIP 2x	1'-6"	
HDU11	1"Ø (36 ksi)	5/8"x3" SQR	x8	1'-8"	1-3/8"
			4x6	2'-0"	
HDU14	1"Ø (36 ksi)	5/8"x3" SQR	x8	2'-0"	1-9/16"
			6x6	2'-4"	

Notes:
1. HDU14 requires heavy-hex anchor nut supplied with holdown.
2. Holdown post shall match width of wall (x4 min.)
3. Install holdown per manufacturer's instructions.
4. 'CL' indicates dimension from CL of anchor rod to face of post.

5 Typical HDU Holdown
NOT TO SCALE



6 Typical HDU Holdown Thru Floor
NOT TO SCALE

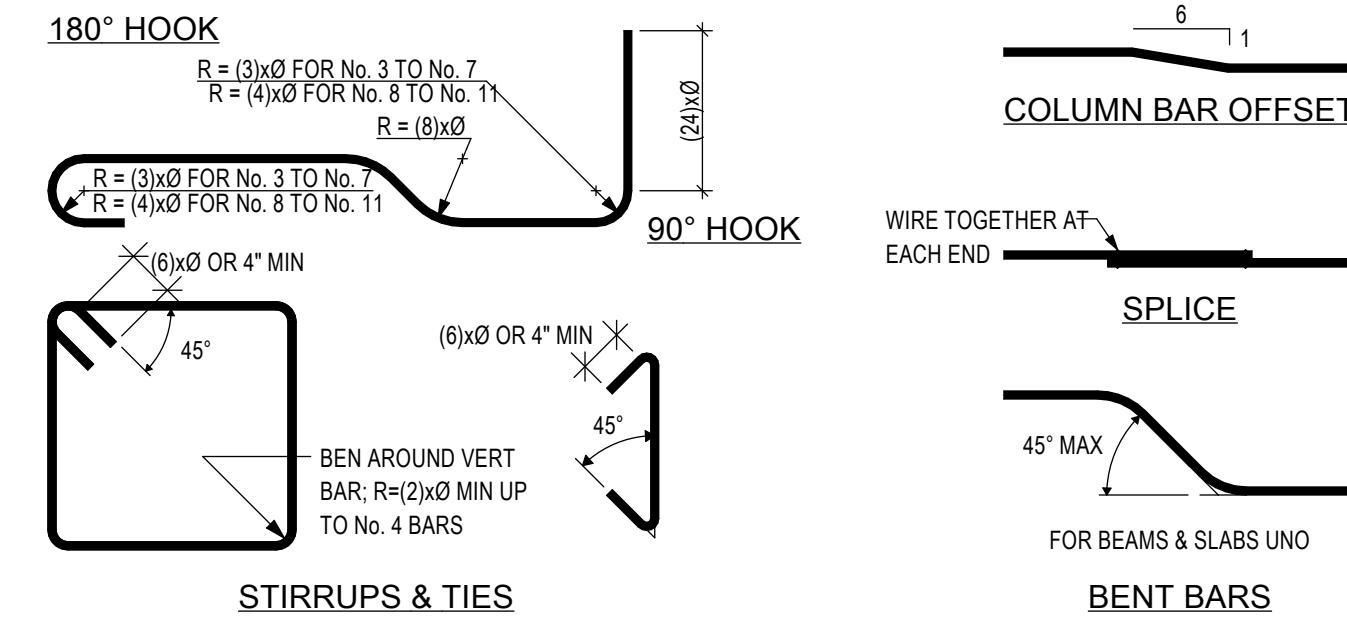


7 Typical Holdown Strap
NOT TO SCALE

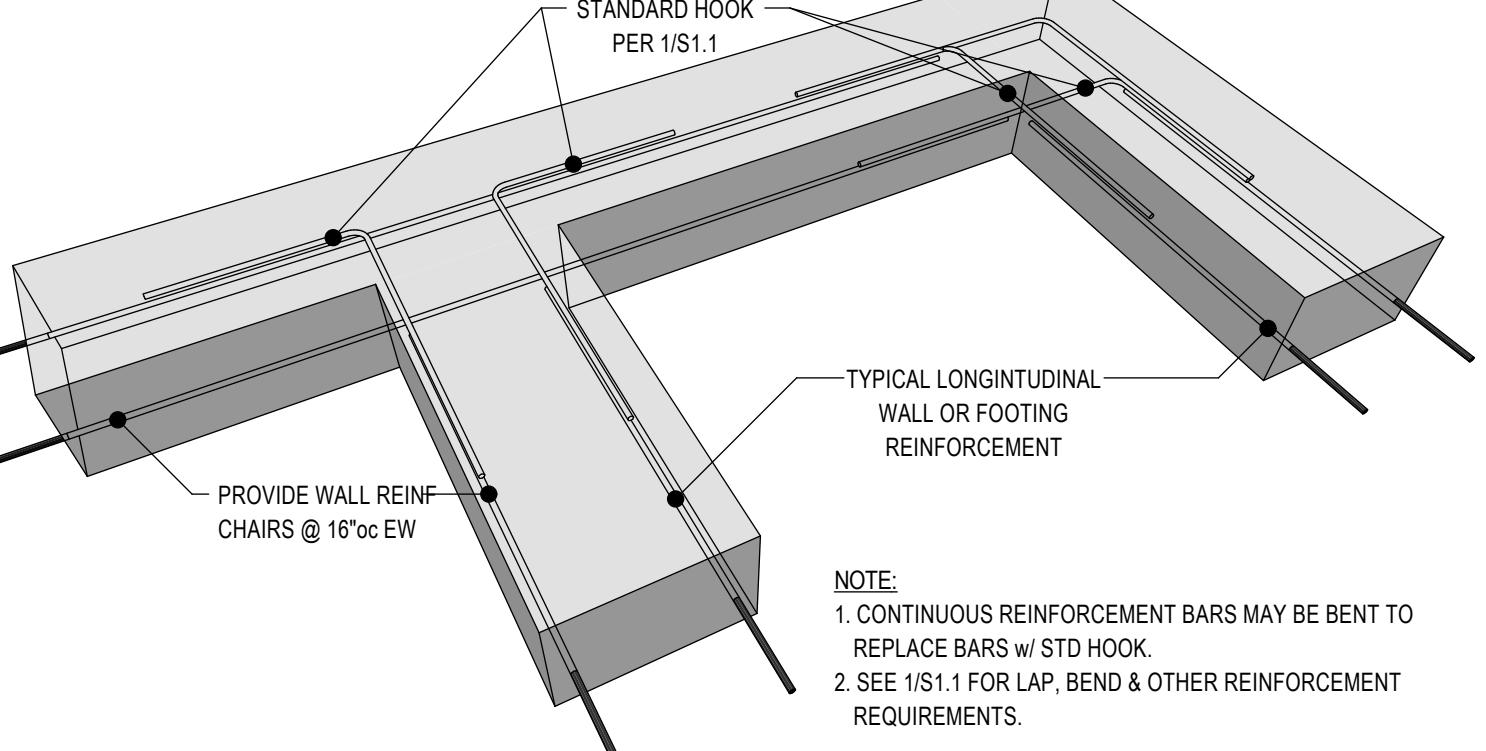
Reinforcement Size / Grade (ksi)	Lap Splice Length	Concrete Cover for Steel Reinforcement ('CLR')
$f_c = 3000 \text{ psi}$ or <	$f_s = 21"$	CAST AGAINST EARTH OR GRADE 3"
$f_c = 4000 \text{ psi}$ or >	$f_s = 21"$	EXPOSED TO EARTH OR WEATHER
No. 6 & Smaller	1 1/2"	No. 6 & Larger 2"
No. 6 & Larger	2"	NOT EXPOSED TO EARTH OR WEATHER
No. 6 & Smaller	1"	No. 6 & Larger 1 1/2"
No. 6 & Larger	1 1/2"	SLABS - from top of concrete 2"

Notes:
1. Splices shall be staggered.
2. Reinforcing bars shall have a minimum spacing of 1" clear.
3. All reinforcing bars shall extend as far as possible and in a standard 90° or 180° hook unless detailed otherwise.

STANDARD HOOKS & BENDS

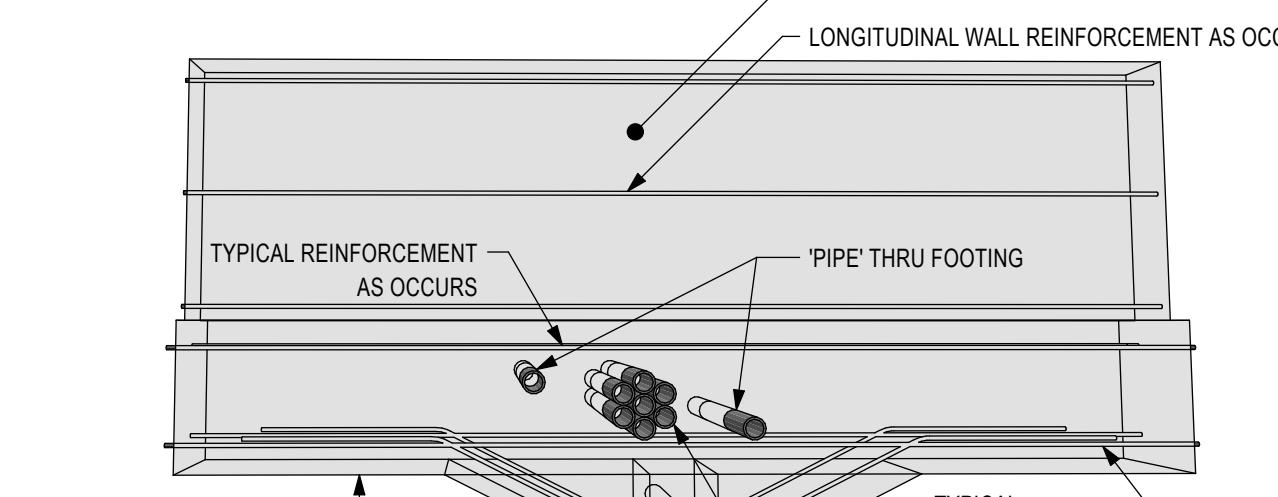


1 Typical Reinforcing Detail
NOT TO SCALE

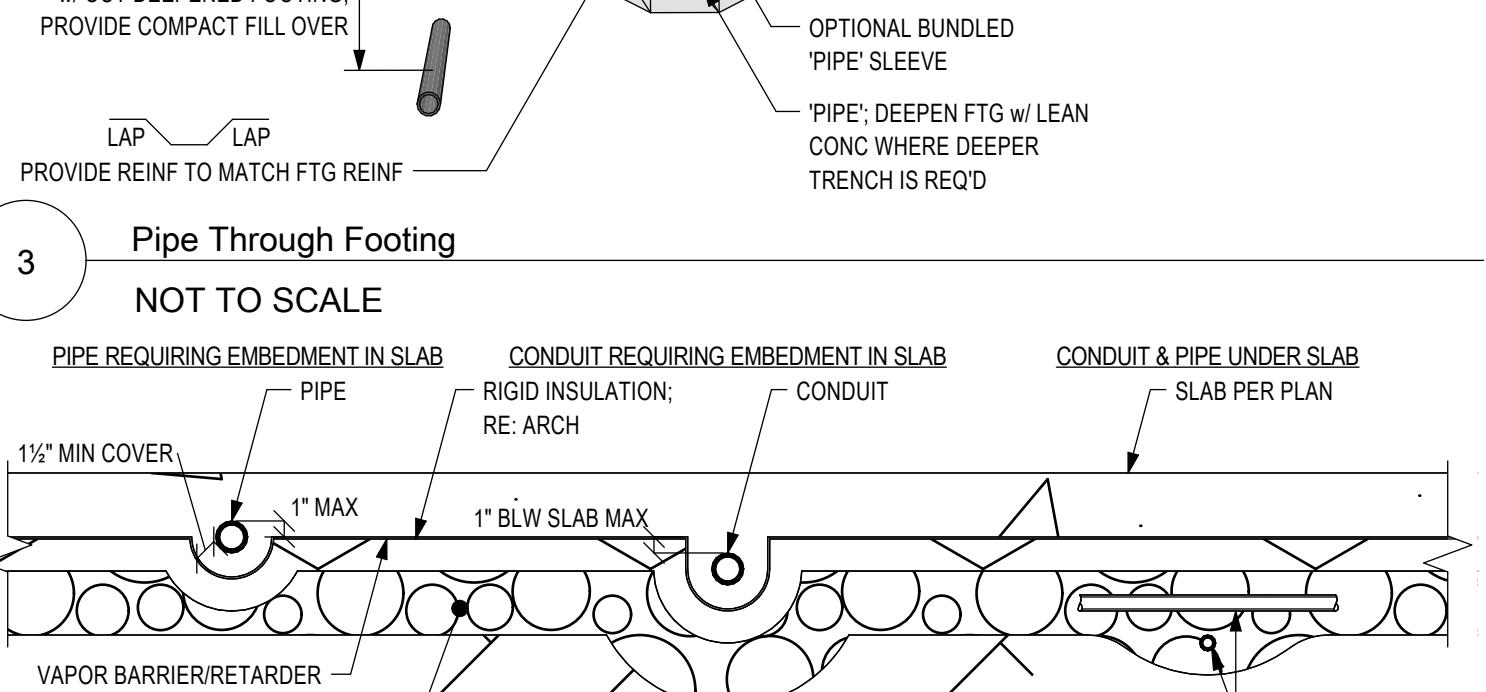


2 Concrete Reinforcement
NOT TO SCALE

Notes:
1. 'PIPE' is defined as any penetration through or embedded in foundation structure. 'PIPE' embedded into concrete shall be provided with flexible couplings at entry/exit points.
2. 'PIPE' through concrete stem wall has similar requirements indicated below for 'PIPE' through footing.
3. Sleeves shall be PVC. Inside diameter (ID) to be 2" larger than 'PIPE' outside diameter (OD).
4. No 'PIPE' to run parallel in footings, stem or curb.
5. PVC conduit ('PIPE') embedded in curbstem may be wire tied to horizontal reinforcement.
6. Wrapped 'PIPES' shall have 1 1/2" clear from wrapping to reinforcing. Sleeved pipes shall have 1 1/2" minimum clear ('CLR') to reinforcing. Wrap with a minimum of (3) layers minimum of 1/8" foam sheet. Minimum concrete cover to be 1".
7. Clearance between 'PIPES' to be 3" minimum. Groups of pipes may be bundled as shown.
8. There shall be 18" minimum clear for any 'PIPE' parallel to footing with the exception of perimeter foundation drains.
9. Vertical and transverse reinforcement is not shown below for clarity.

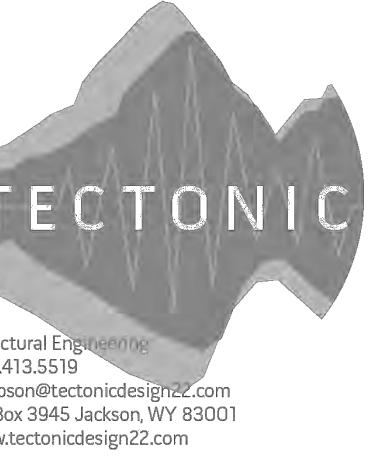


Pipe Through Footing



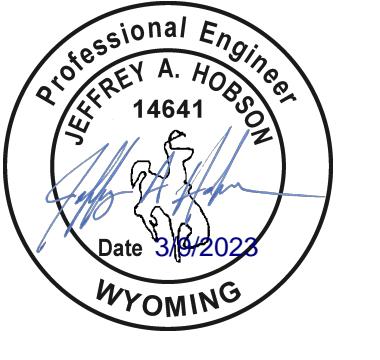
3 Pipe Through Footing
NOT TO SCALE

4 Conduit & Pipe at Slab
NOT TO SCALE



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STAMP



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RESIDENCE

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Wilson WY 83014

Helical Pile Specifications

1. GENERAL

1.1 Purpose of Specification

The purpose of this specification is to detail the furnishing of all designs, materials, tools, equipment, labor and supervision, and installation techniques necessary to install Helical Piles as detailed on the drawings, including connection details. This shall include provisions for load testing that may be part of the scope of work

1.2 Scope of Work

This work consists of furnishing all necessary engineering and design services (if required), supervision, labor, tools, materials, and equipment to perform all work necessary to install the Helical Piles, at 355 Meadowlark Dr., Teton County, Wyoming for Boardwalk Real Estate, LLC, per the specifications described herein, and as shown on the drawings. The Contractor shall install a Helical Pile that will develop the load capacities as detailed on the drawings.

1.3 Qualifications of the Helical Pile Contractor

The Helical Pile Contractor shall be experienced in performing design and construction of Helical Piles and shall furnish all materials, labor, and supervision to perform the work. The Contractor shall be trained and certified by the Helical Pier manufacturer in the proper methods of design and installation of Helical Piles. The Contractor shall provide names of on-site personnel materially involved with the work, including those who carry documented certification. At a minimum, these personnel shall include foreman, machine operator, and project engineer/manager.

The Helical Pile Contractor shall not sublet the whole or any part of the contract without the express written permission of the Owner.

1.4 Definitions

A partial list follows:

Contractor: The person/firm responsible for performing the Helical Pile work.

Helical Pile: A bearing type foundation element consisting of a lead or starter section, helical extension (if so required by site conditions), plain extension section(s), and a pile cap. A.k.a. helical screw pile, screw pile, helical screw foundation.

Installation Torque(T): The resistance generated by a Helical Pile when installed into soil. The installation resistance is a function of the soil type, and size and shape of the various components of the Helical Pile.

Pile Cap: Connection means by which structural loads are transferred to the Helical Pile. The type of connection varies depending upon the requirements of the project and type of Helical Pile material used.

Safety Factor: The ratio of the ultimate capacity to the working or design load used for the design of any structural element. Torque Strength Rating: The maximum torque energy that can be applied to the helical pile foundation during installation in soil, a.k.a. allowable, or safe torque.

1.5 Allowable Tolerances

The tolerances quoted in this section are suggested maximums. The actual values established for a particular project will depend on the structural application.

1.5.1 Centerline of Helical Piles shall not be more than 3 inches from indicated plan location.

1.5.2 Helical Pile plumbness shall be within 2 of design alignment.

1.5.3 Top elevation of Helical Pile shall be within +1 inch to -2 inches of the design vertical elevation.

1.6 Quality Assurance

1.6.1 Helical Piles shall be installed by a certified Contractor. These Contractors shall have satisfied the certification requirements relative to the technical aspects of the product and installation procedures as therein specified. Certification documents shall be provided upon request to the Owner or their representative.

1.6.2 The Contractor shall employ an adequate number of skilled workers who are experienced in the necessary crafts and who are familiar with the specified requirements and methods needed for proper performance of the work of this specification.

1.6.3 All Helical Piles shall be installed in the presence of a designated representative of the Owner unless said representative informs the Contractor otherwise. The designated representative shall have the right of access to any and all field installation records and test reports.

1.6.4 Helical Pile components as specified therein shall be manufactured by a facility whose quality systems comply with ISO (International Organization of Standards) 9001 requirements. Certificates of Registration denoting ISO Standards Number shall be presented upon request to the Owner or their representative.

1.6.5 Design of Helical Piles shall be performed by an entity as required in accordance with existing local code requirements or established local practices. This design work may be performed by a licensed professional engineer in the State of Wyoming.

1.7 Design Criteria

1.7.1 Helical Piles shall be designed to meet the specified loads and acceptance criteria as shown on the drawings. The calculations and drawings required from the Contractor or Engineer shall be submitted to the Owner for review and acceptance.

1.7.2 The allowable working load on the Helical Piles shall not exceed the following values:

1.7.2.1 For compression loads:

Pallow = 0.4 * fyshaft * Ashft

Where: Pallow= allowable working load in compression (kip)

fyshaft = minimum yield strength of central steel shaft (ksi)

Ashft = area of central steel shaft (with corrosion allowance if required) (in²)

These allowable working loads may be reduced by the allowable load capacity per helix plate(s). It is recommended to use the allowable helix capacities per helical pile type as published by pier manufacturer.

1.7.2.2 For tension loads:

Pallow = Sul / FS

Where: Pallow = allowable working load in tension (kip)

Sut = Min. ultimate tensile strength of central steel shaft segment (at coupling joint) (kip)

FS = factor of safety suitable for application, i.e. temporary or permanent structures
For permanent applications, it is recommended to use a factor of safety of two (2). For temporary applications, factor of safety typically ranges between 1.25 and 1.5.

It is recommended to use the minimum ultimate tensile strengths as published by pier manufacturer. The ultimate tensile strength may be reduced by the ultimate capacity per helix plate(s)-depending on the number of helix plates specified and type of shaft family used. The ultimate tensile strength may also be reduced by the torque limited ultimate capacity - depending on the type of shaft family used.

1.7.3 The ultimate structural capacity shall be determined as:

1.7.3.1 For compression loads:

Pultc = fyshaft * Ashft

Where: Pultc= ultimate structural capacity in compression (kip)

fyshaft = minimum yield strength of central steel shaft (ksi)

Ashft = area of central steel shaft (with corrosion allowance if required) (in²)

The ultimate structural capacity may be reduced by the ultimate load capacity per helix plate(s). It is recommended to use the ultimate helix capacities per helical pile type as published by pier manufacturer.

1.7.3.2 For tension loads:

Pultt = Sut

Where: Pultt = Ultimate structural capacity in tension (kip)

Sut = Minimum ultimate tensile strength of central steel shaft (kip)

It is recommended to use the minimum ultimate tensile strengths as published by pier manufacturer. The ultimate tensile strength may be reduced by the ultimate capacity per helix plate(s)-depending on the number of helix plates specified and type of shaft family used. The ultimate tensile strength may also be reduced by the torque limited ultimate capacity - depending on the type of shaft family used.

1.7.4 The overall length and installed torque of a Helical Pile shall be specified such that the required in-soil capacity is developed by end-bearing on the helix plate(s) in an appropriate strata(s).

Helical Piles are not suited for solid, competent rock, but the helix plates can penetrate into dense bearing soils. It is recommended that HELICAL PILES be installed to a specified minimum torque and depth to ensure the helical plates are terminated in bearing soils. Appropriate and repeatable installation techniques and Helical Pile termination criteria must be identified and verified in the field.

1.7.5 Down-Drag/Negative Skin Friction: Helical Piles are slender shaft foundation elements and are not practically affected by down-drag/negative skin friction. If Helical Piles with central steel shafts >4" in diameter are used in areas where compressible or decomposing soils overlie bearing stratum, or where expansive or frozen soils can cause pile jacking, Helical Pile shafts should be provided with a no-bond zone along a specified length to prevent load transfer that may adversely affect pile capacity. Alternately, Helical Piles can be provided with sufficient axial load capacity to resist down drag/negative skin friction forces.

1.7.6 The Helical Pile attachment (pile cap) shall distribute the design load (DL) to the concrete foundation such that the concrete bearing stress does not exceed those in the ACI Building Code and the stresses in the steel plates/welds does not exceed AISC allowable stresses for steel members.

2 REFERENCED CODES AND STANDARDS

Standards listed by reference, including revisions by issuing authority, form a part of this specification section to the extent indicated. Standards listed are identified by issuing authority, name, title, or other designation established by issuing authority. Standards subsequently referenced herein are referred to by issuing authority abbreviation and standard designation. In case of conflict, the particular requirements of this specification shall prevail. The latest publication as of the issue of this specification shall govern, unless indicated otherwise.

2.1 American Society for Testing and Materials (ASTM):

2.1.1 ASTM A29/A29M Steel Bars, Carbon and Alloy, Hot-Wrought and Cold Finished.

2.1.2 ASTM A36/A36M Structural Steel.

2.1.3 ASTM A53 Pipe, Steel, Black and Hot-Dipped, Zinc-Coated Welded and Seamless.

2.1.4 ASTM A153 Zinc Coating (Hot Dip) on Iron and Steel Hardware.

2.1.5 ASTM A252 Welded and Seamless Steel Pipe Plates.

2.1.6 ASTM A193/A193M Alloy-Steel and Stainless Steel Bolting Materials for High Temperature Service.

2.1.7 ASTM A320/A320M Alloy-Steel Bolting Materials for Low Temperature Service.

2.1.8 ASTM A325 Standard Specification for Structural Bolts, Steel, Heat Treated, 120/105 ksi Minimum Tensile Strength.

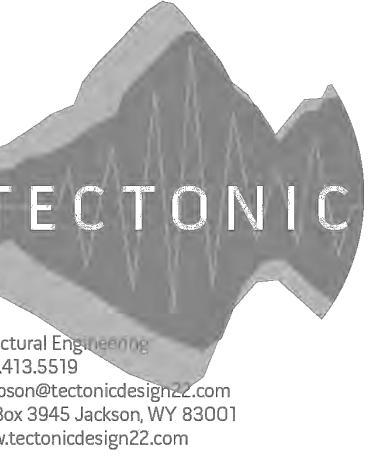
2.1.9 ASTM A500 Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes.

2.1.10 ASTM A513 Standard Specification for Electric Resistance Welded Carbon and Alloy Steel Mechanical Tubing.

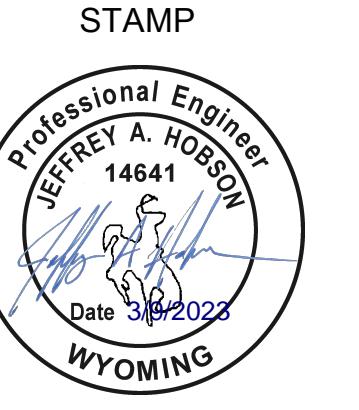
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PROJECT #:	22-011
DRAWN:	JAH
ISSUE:	

Building Permit Set	3.9.23

S0.3	Shear Wall Schedule & Special Inspection
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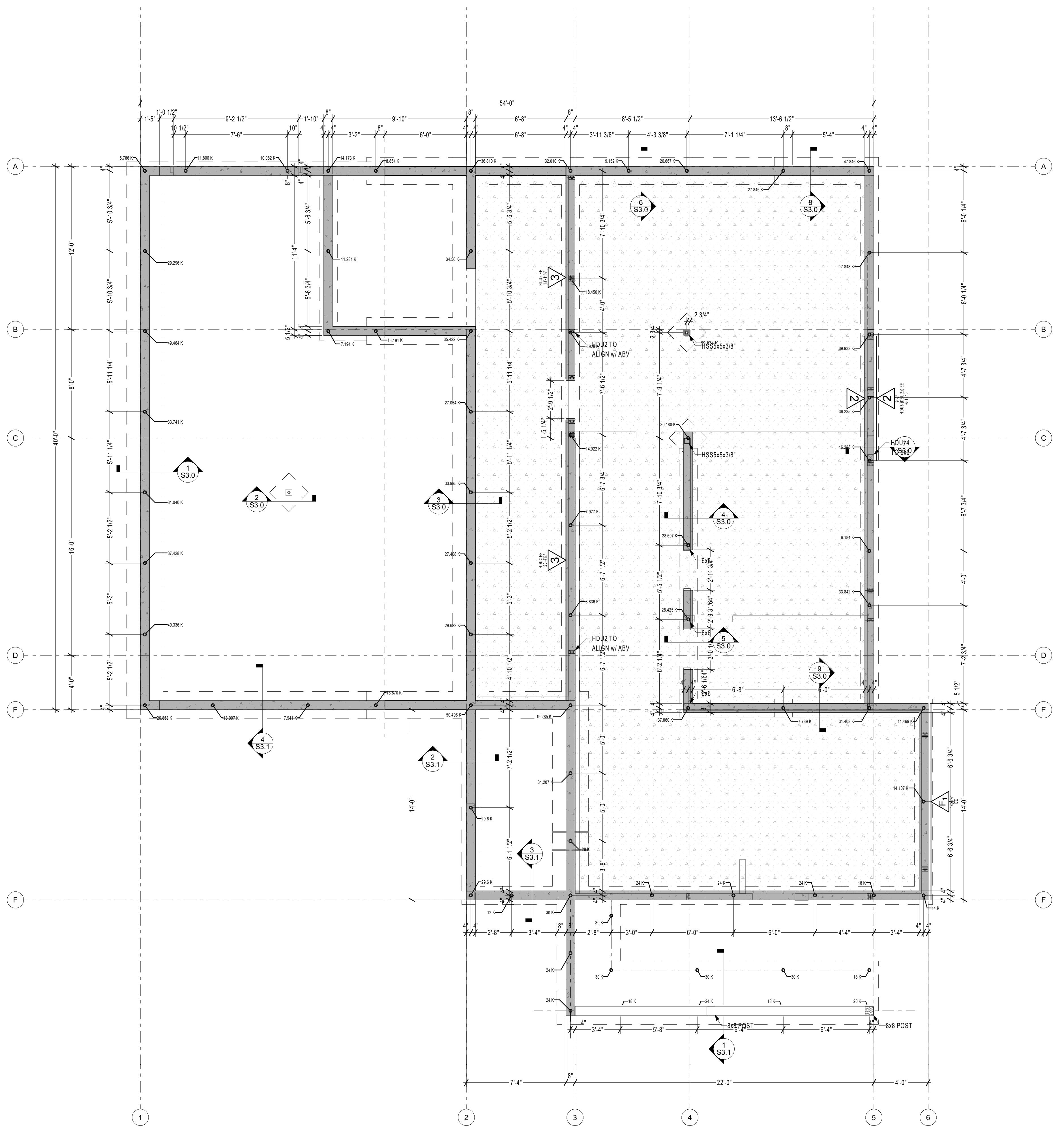
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6165 Burcher Rd
Wilson WY 83014

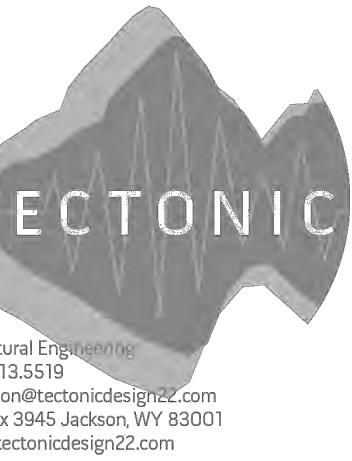
DATE:	3/9/2023
PROJECT #:	22-011
DRAWN:	JAH
ISSUE:	Building Permit Set 3.9.23

S1.0

Basement/Foundation

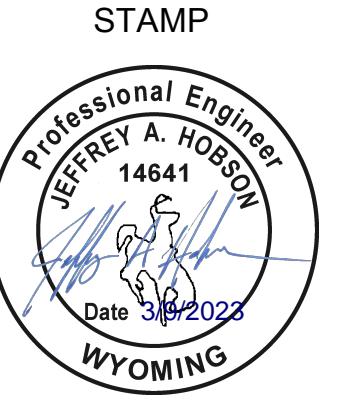


1 Foundation Plan
SCALE: 1/4" = 1'-0"



Structural Engineering
j.hobson@tectonicdesignsinc.com
PO Box 3945 Jackson, WY 83001
www.tectonicdesigns22.com

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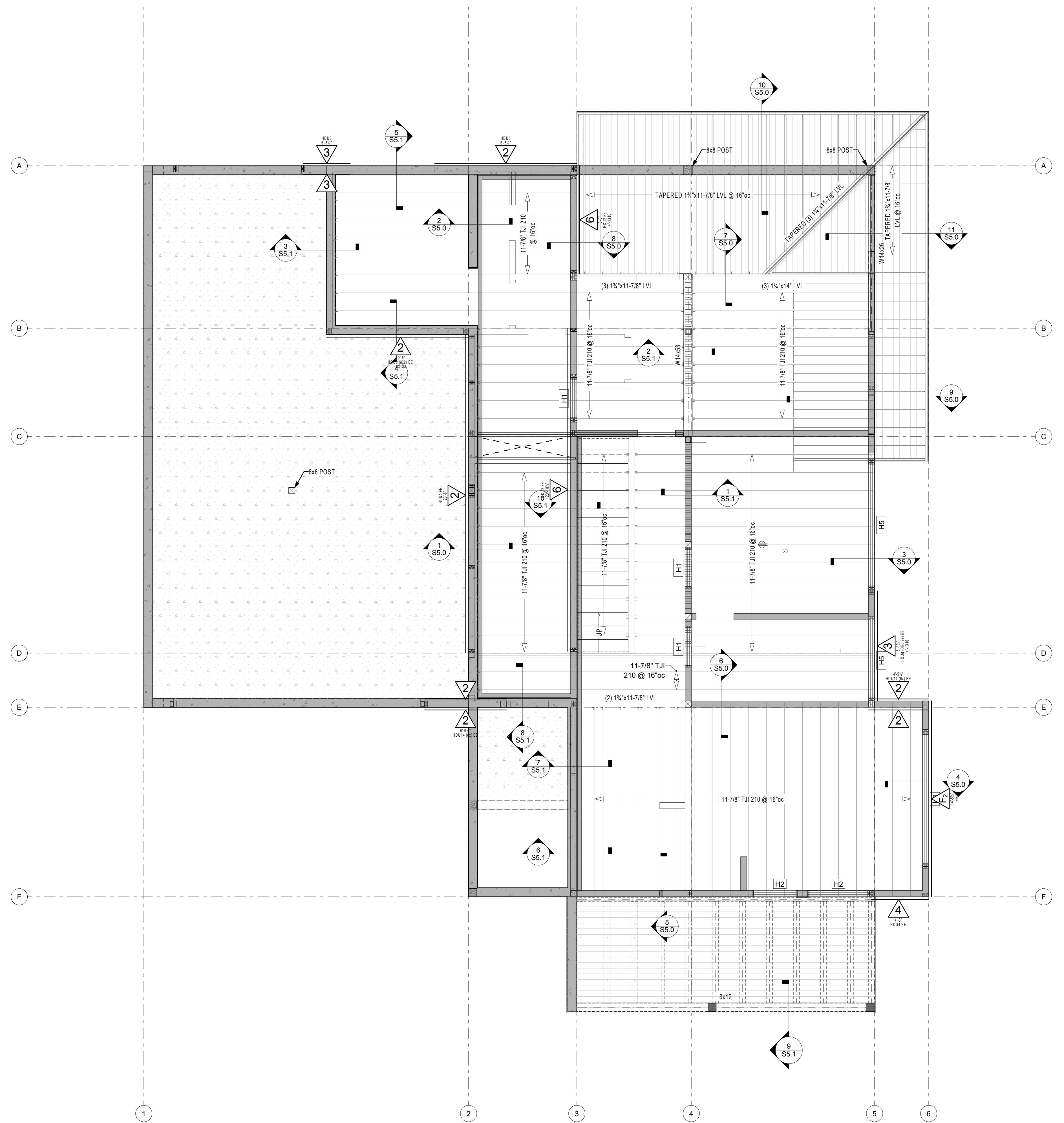
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RESIDENCE

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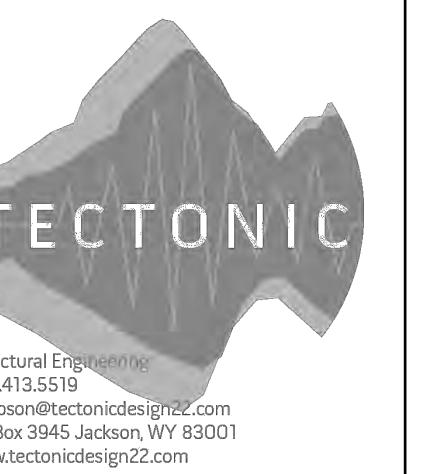
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DRAWN:	JAH
ISSUE:	Building Permit Set 3.9.23

S1.1

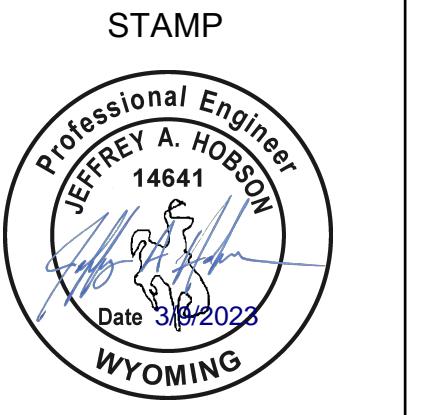
Main Level Framing Plan



1 Main Level Framing
SCALE: 1/4" = 1'-0"



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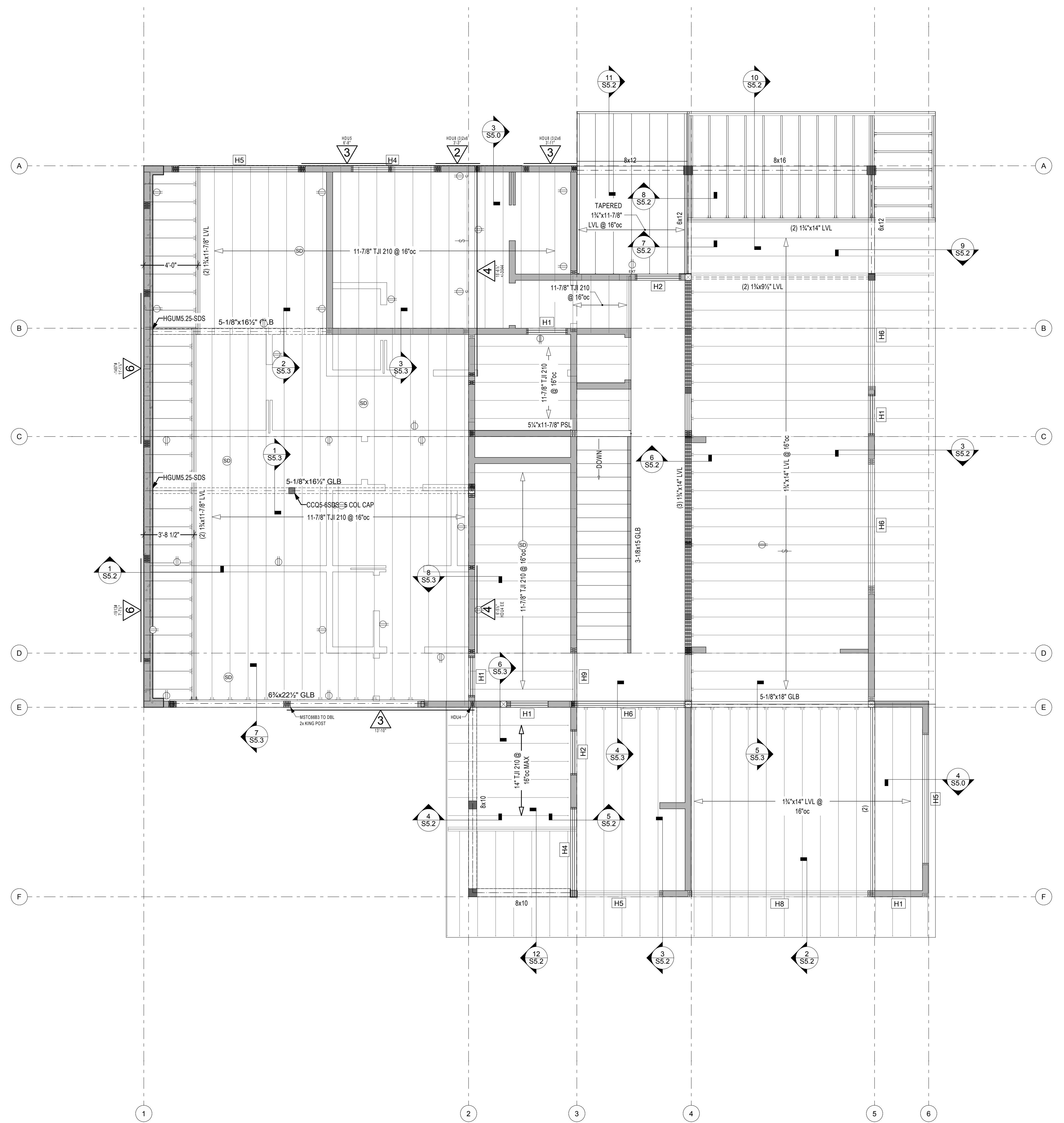
6165 Burcher Rd
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Building Permit Set 3.9.23

S1.2
Upper Level Framing Plan

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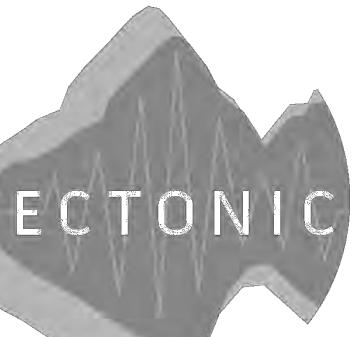


1
Upper Level Framing
SCALE: 1/4" = 1'-0"

HEADER SCHEDULE	
LABEL	HEADER
H1	(3) 2x6
H2	(3) 2x8
H3	(3) 2x10
H4	(3) 1½"x7½" LVL
H5	(3) 1½"x9½" LVL
H6	(3) 1½"x11-7/8" LVL
H7	(3) 1½"x14" LVL
H8	(3) 1½"x16" LVL
H9	(2) 1½"x11-7/8" LVL

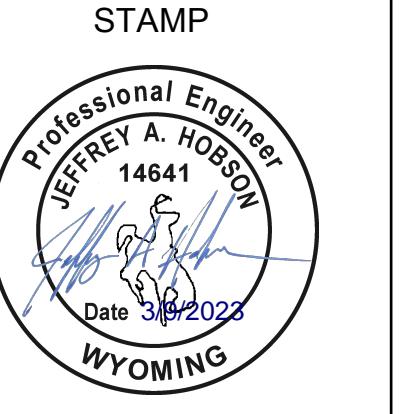
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Structural Engineering
j.hobson@tectonicdesign22.com
PO Box 3945 Jackson, WY 83001
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ROSSCOE RESIDENCE

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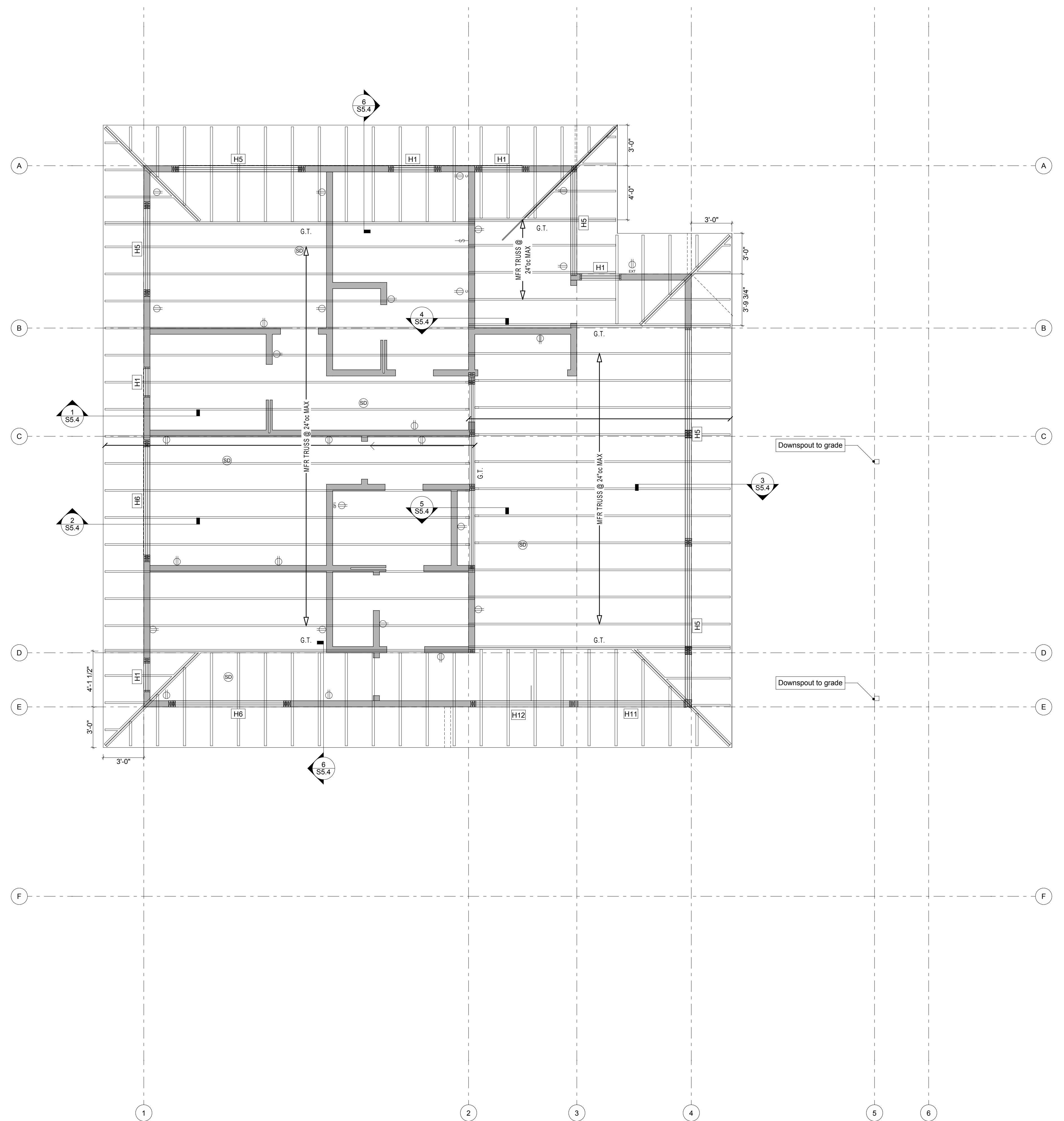
DATE:	3/9/2023
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S1.3

Upper Roof Framing Plan

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1
Upper Roof Framing
SCALE: 1/4" = 1'-0"

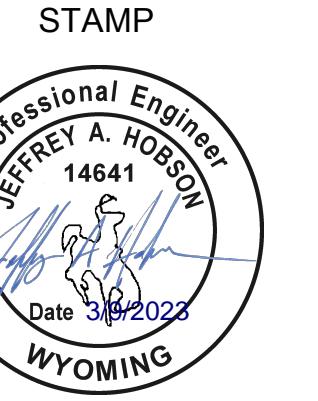
HEADER SCHEDULE	
LABEL	HEADER
H1	(3) 2x6
H2	(3) 2x8
H3	(3) 2x10
H4	(3) 1 1/4"x7 1/4" LVL
H5	(3) 1 1/2"x9 1/4" LVL
H6	(3) 1 1/2"x11 7/8" LVL
H7	(3) 1 1/2"x14" LVL
H8	(3) 1 1/2"x16" LVL
H9	(2) 1 1/2"x11 7/8" LVL

STAMP

Professional Engineer
JEFFREY A. HOBSON
14641
Date 3/9/2023
WYOMING



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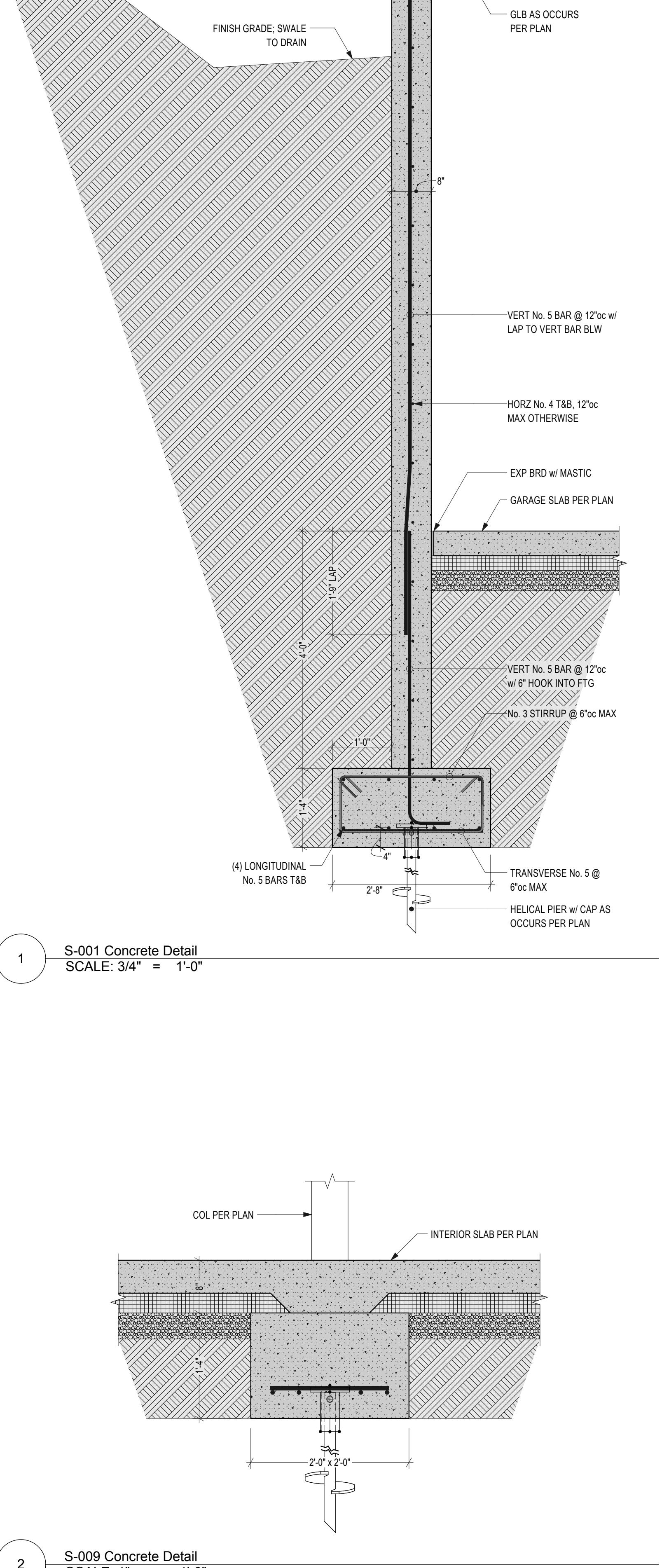
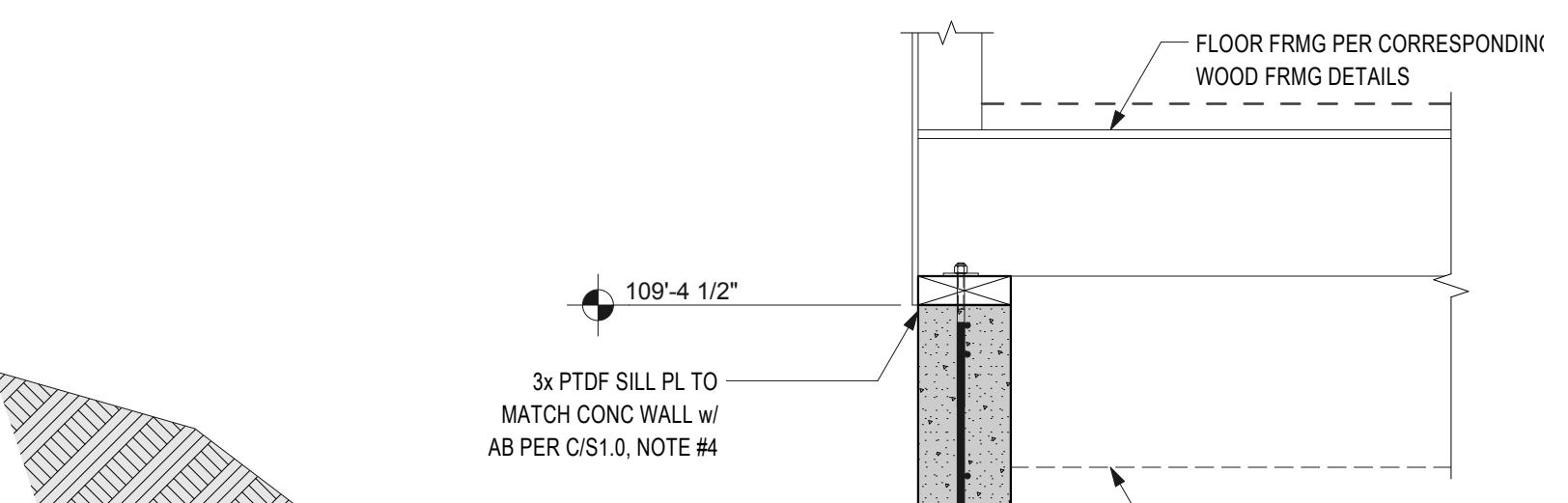
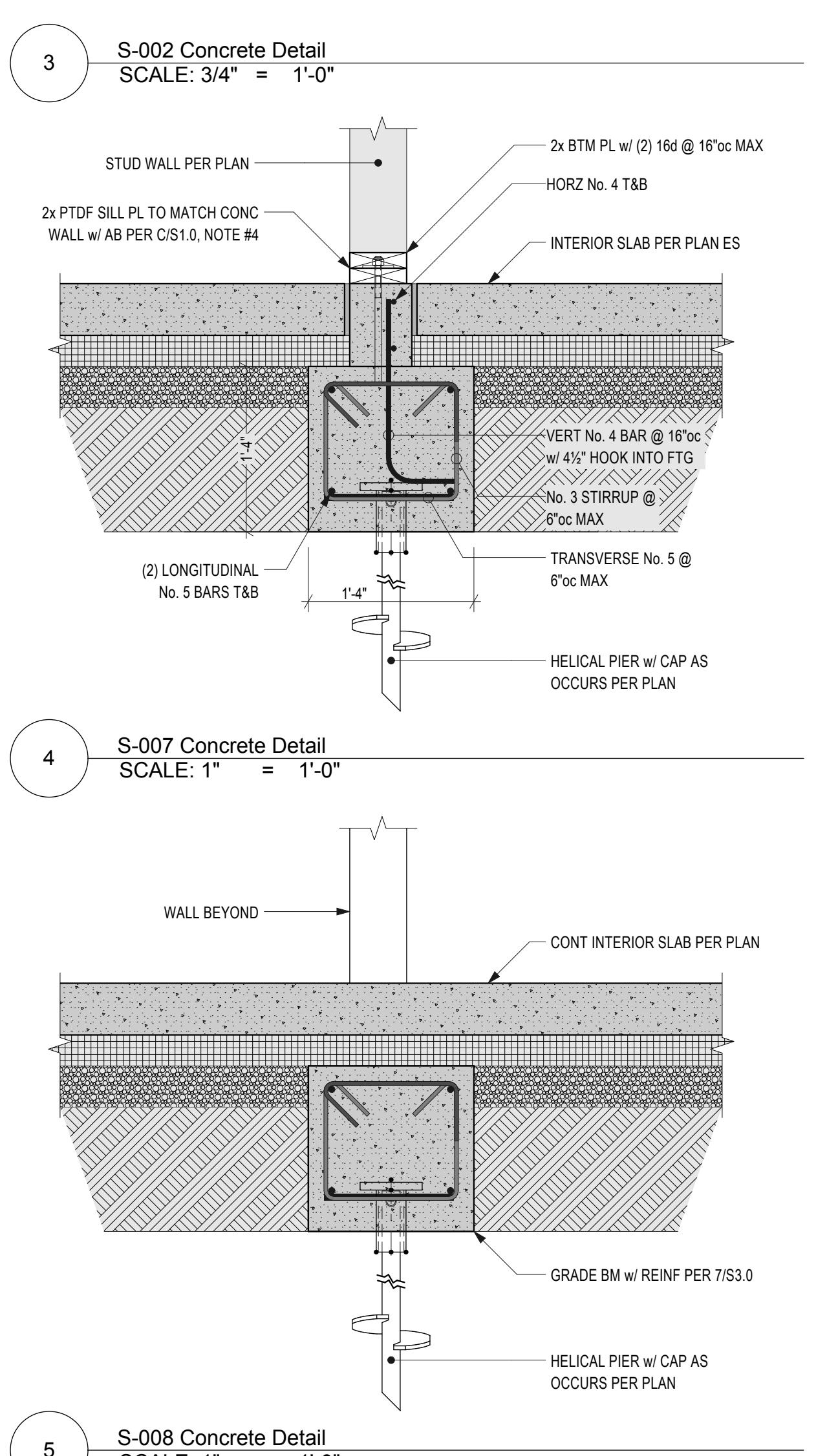
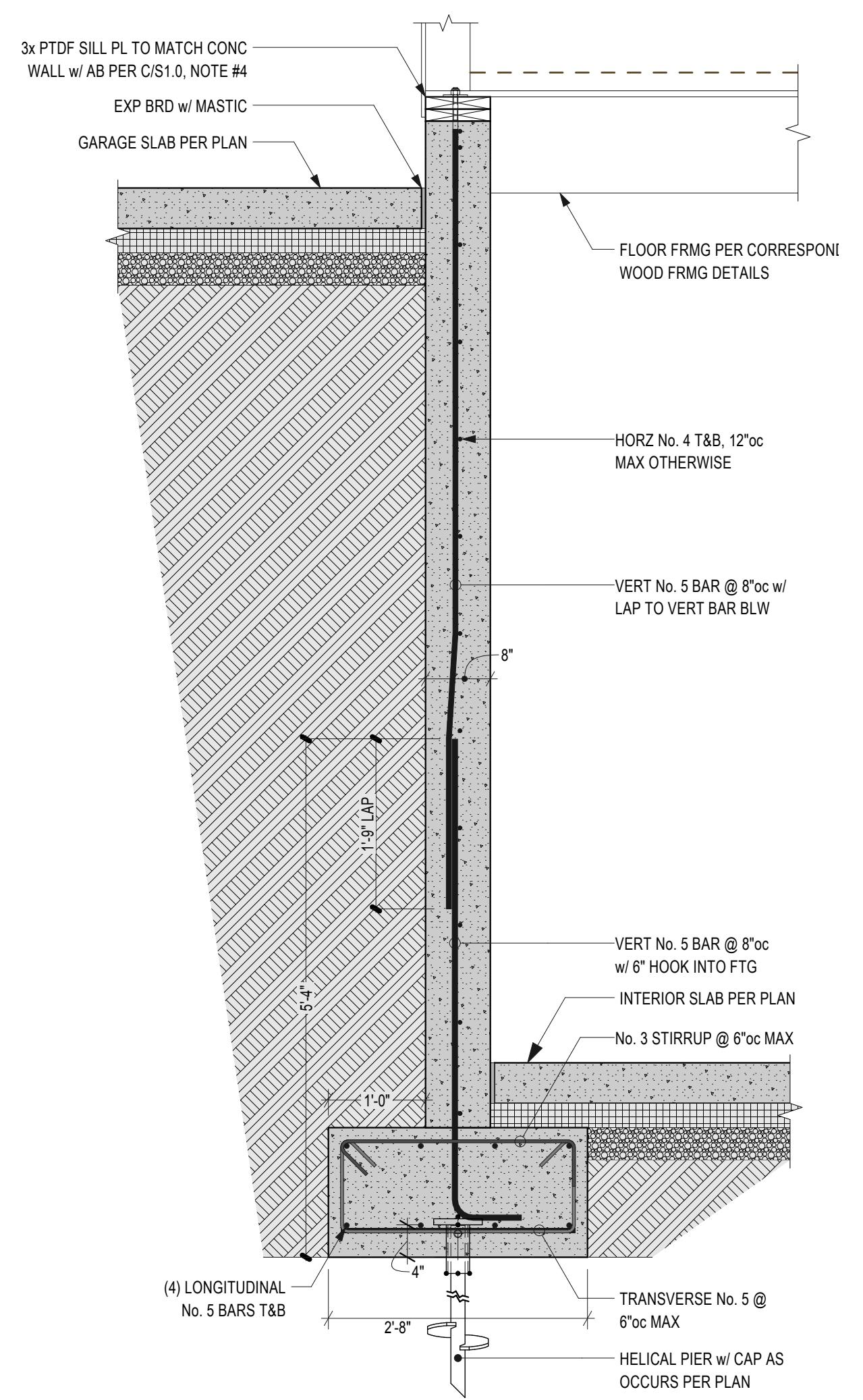
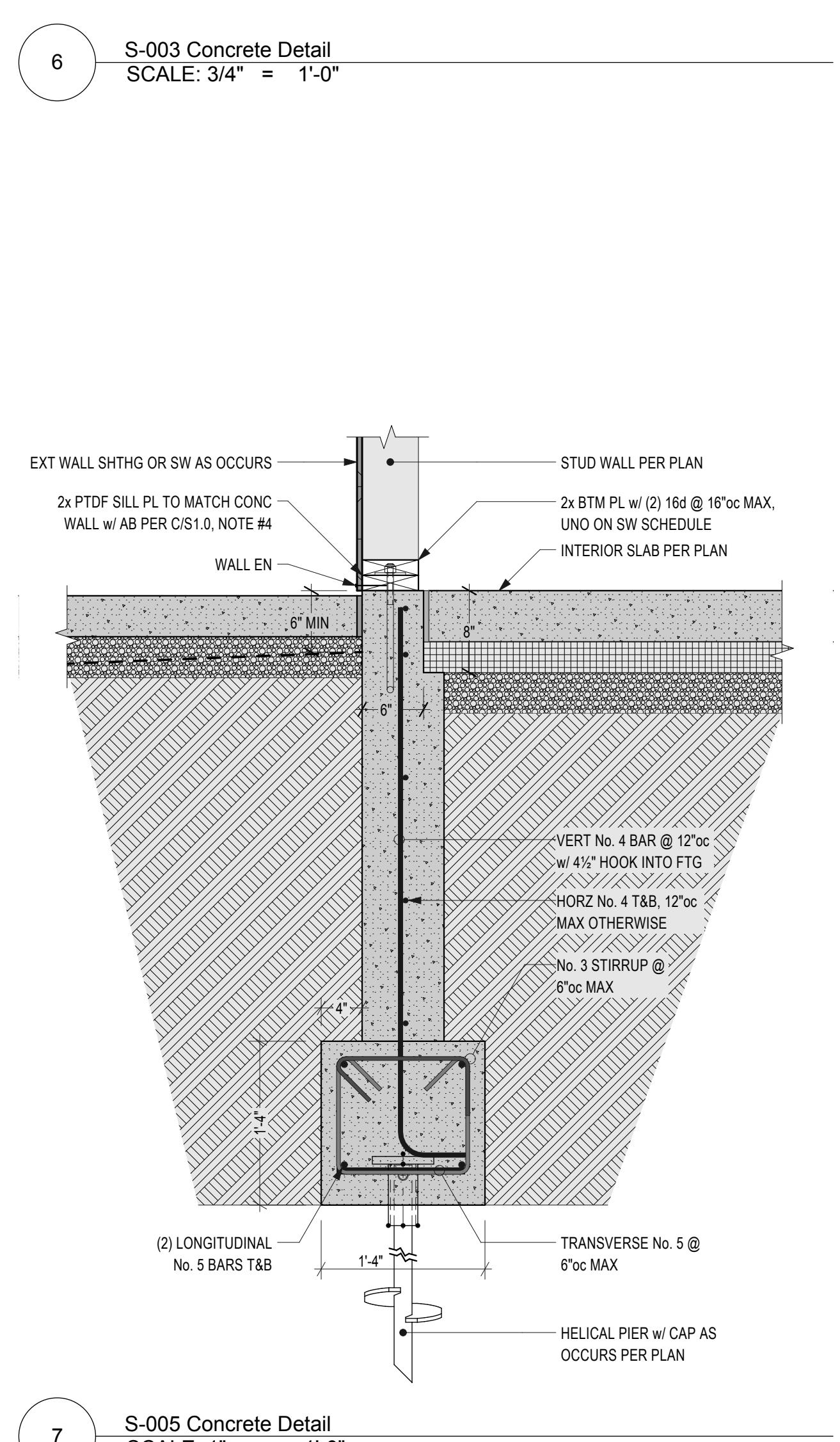
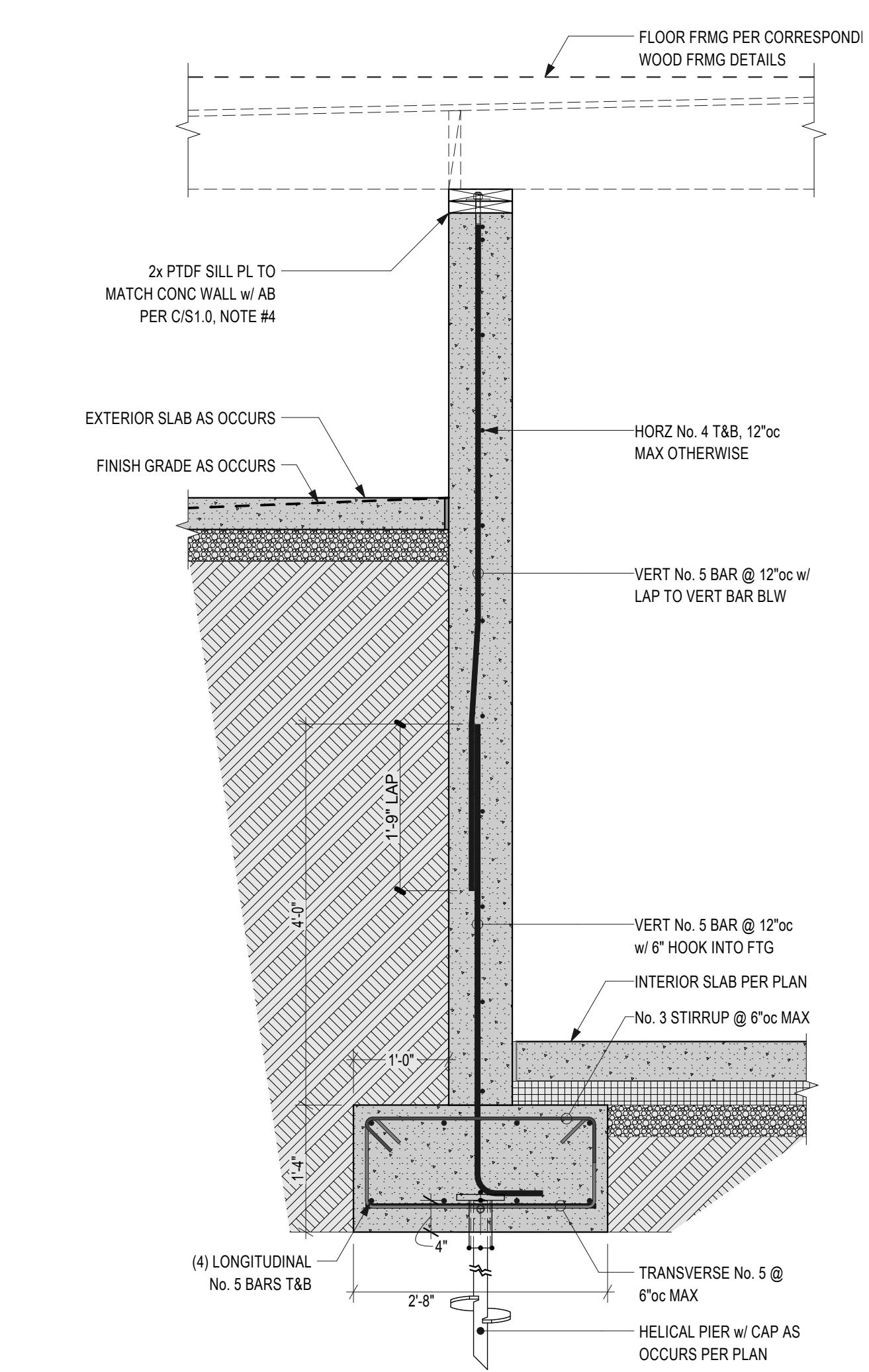
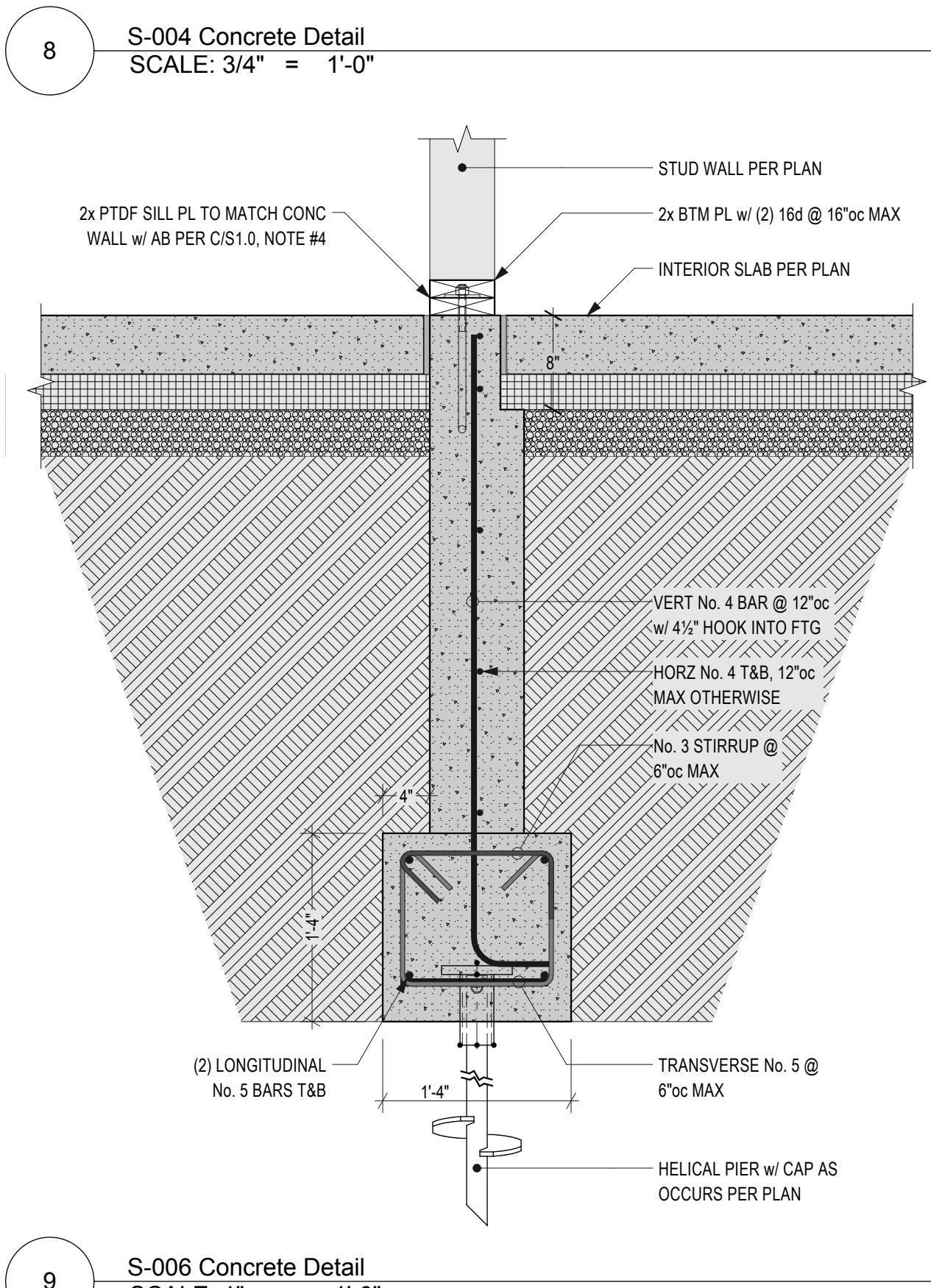
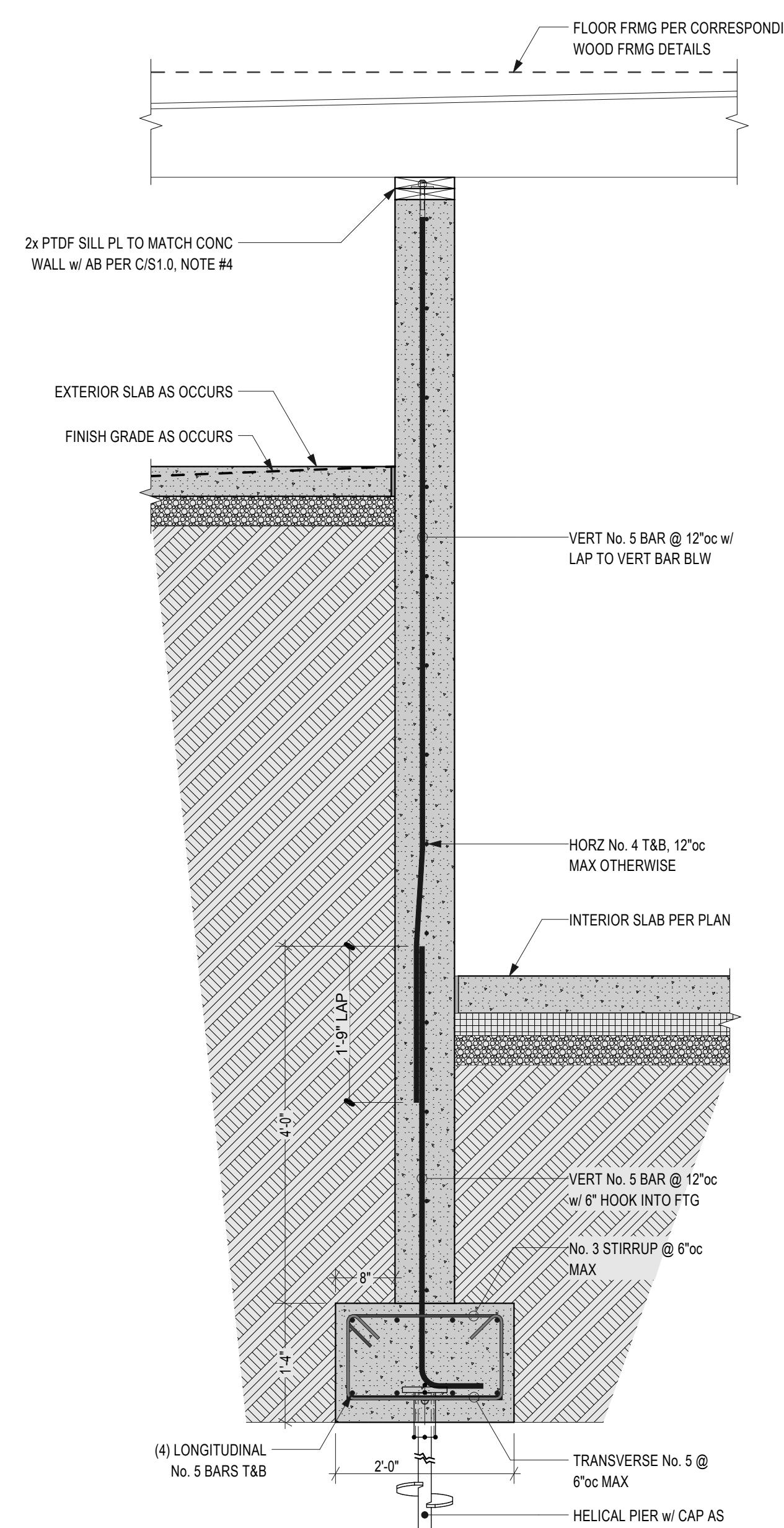
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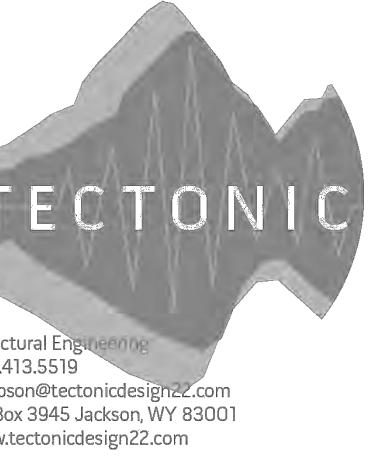
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DRAWN: JAH
ISSUE: Building Permit Set 3.9.23

S3.0

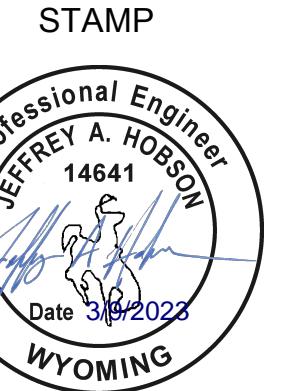
Concrete Details

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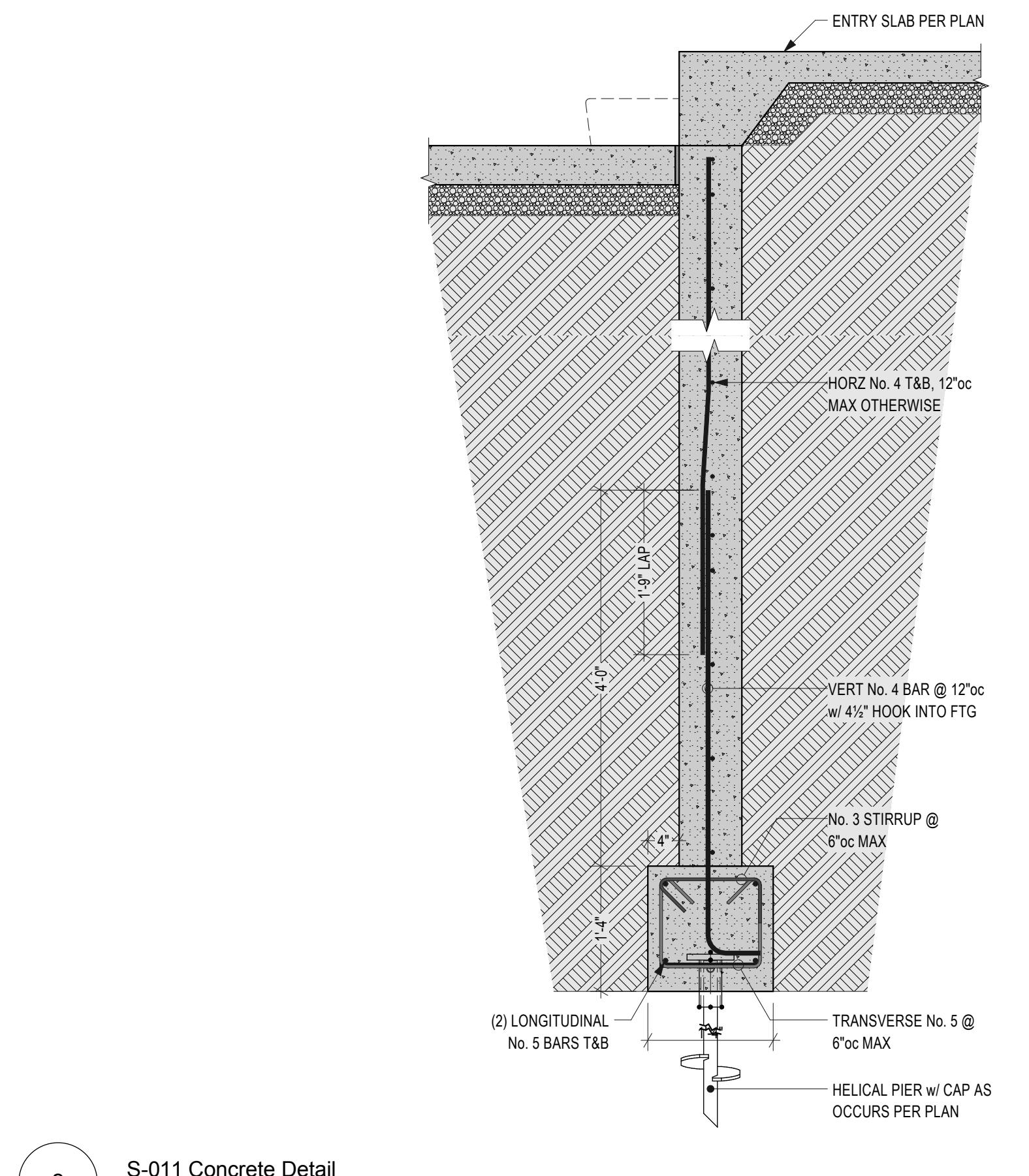
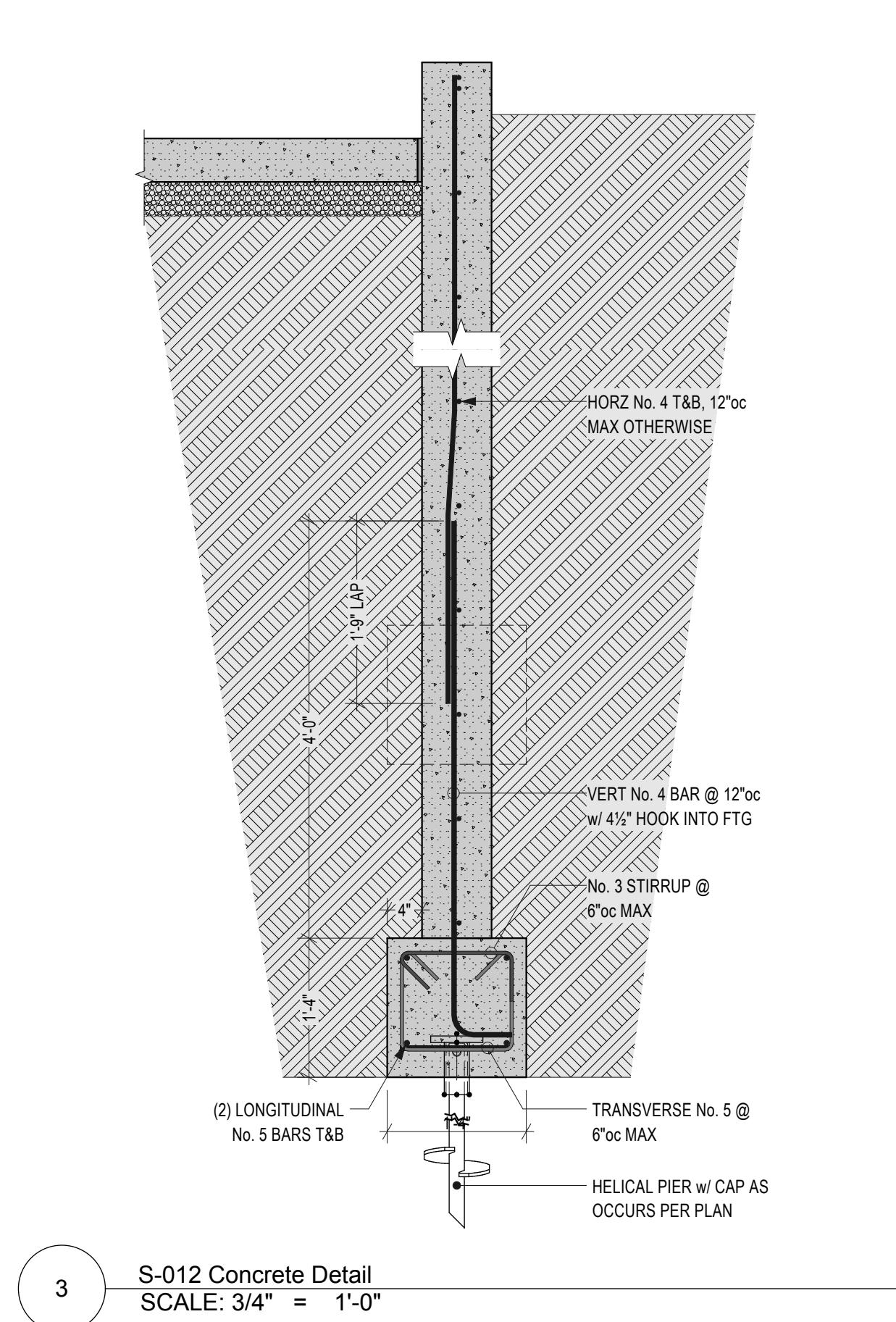
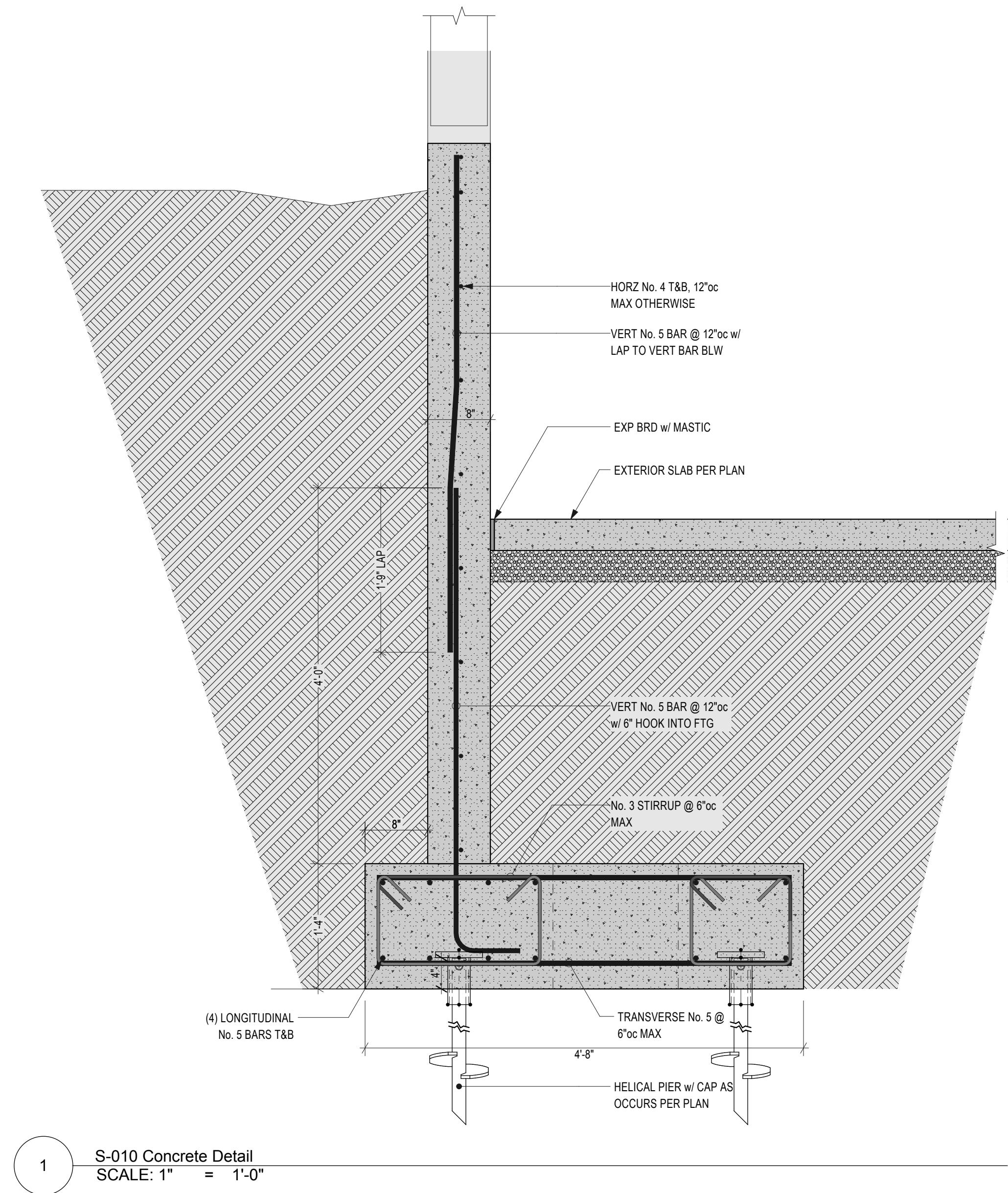
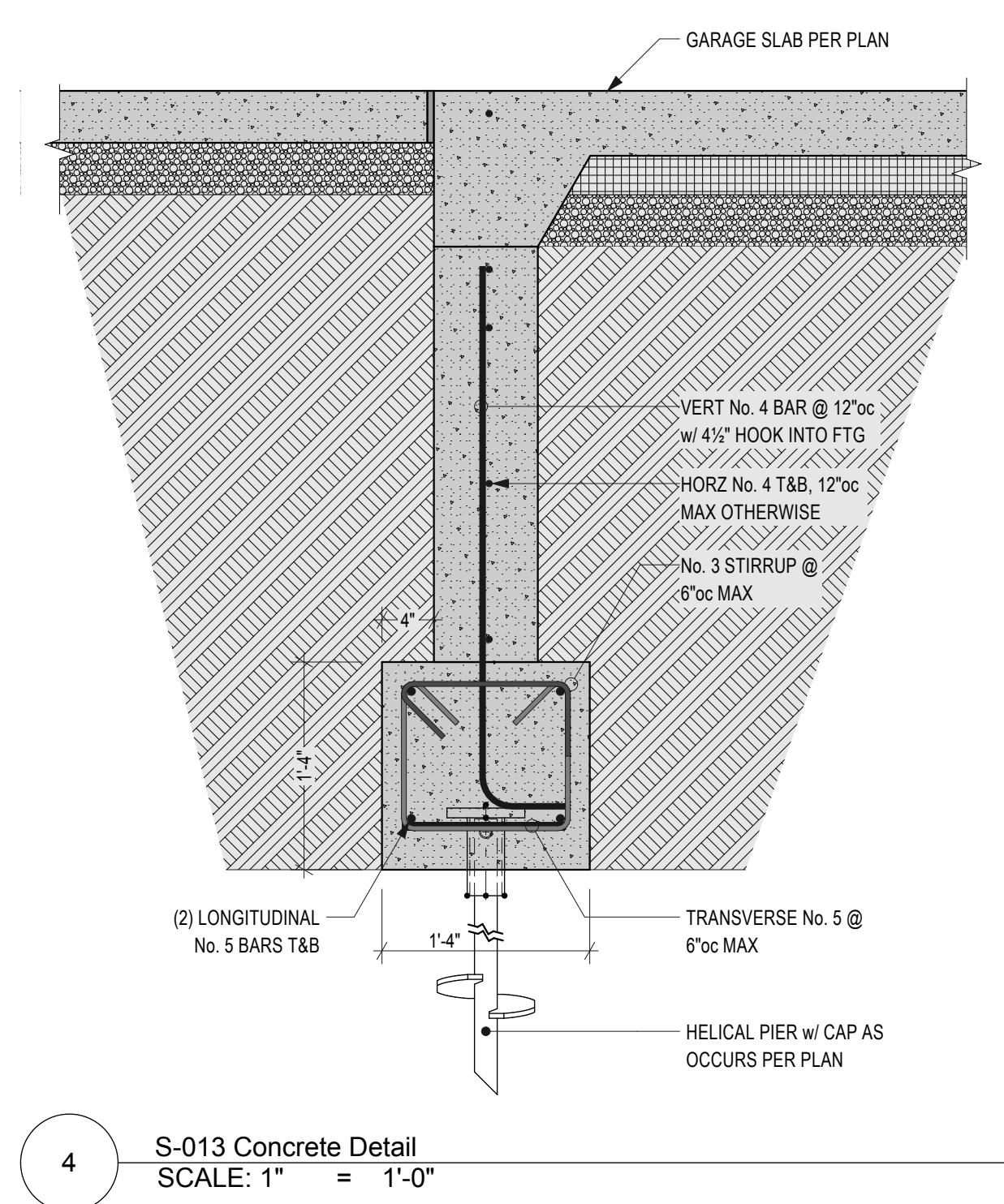
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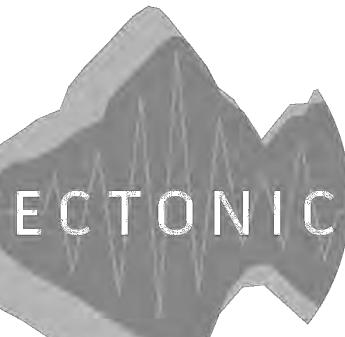
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ISSUE:

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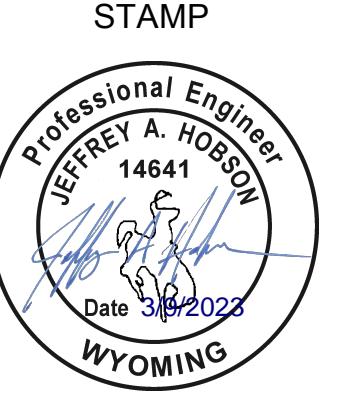
S3.1
Concrete Details





Structural Engineering
j.hobson@tectonicdesignsinc.com
PO Box 3945 Jackson, WY 83001
www.tectonicdesigns22.com

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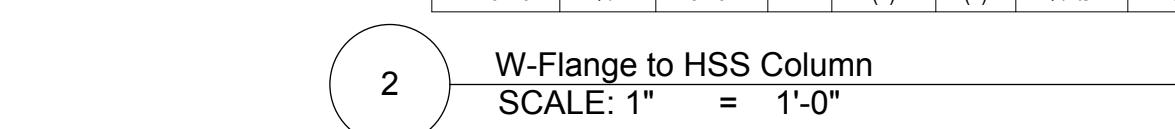
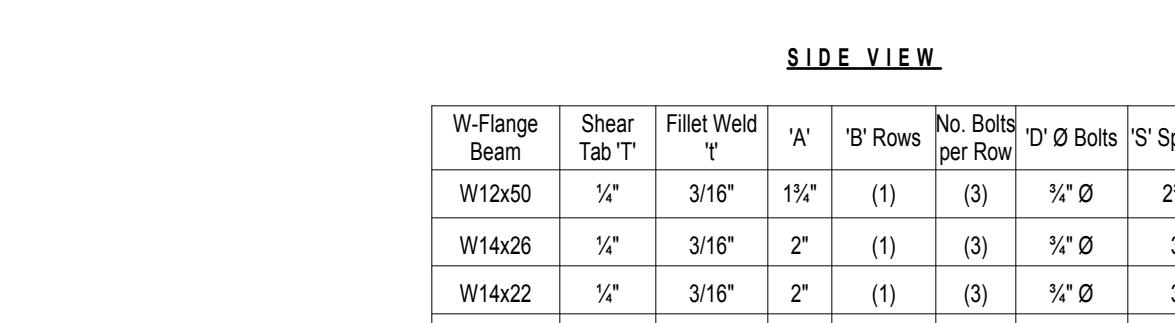
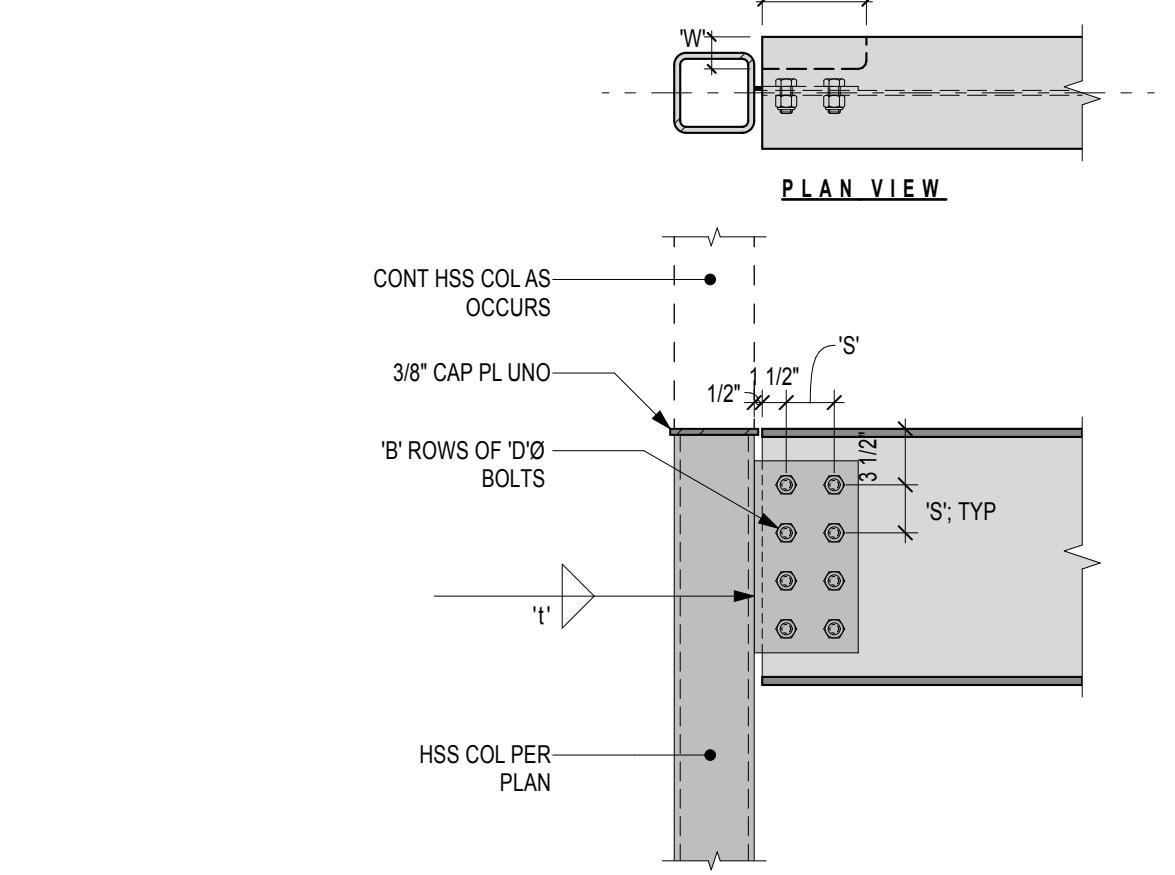
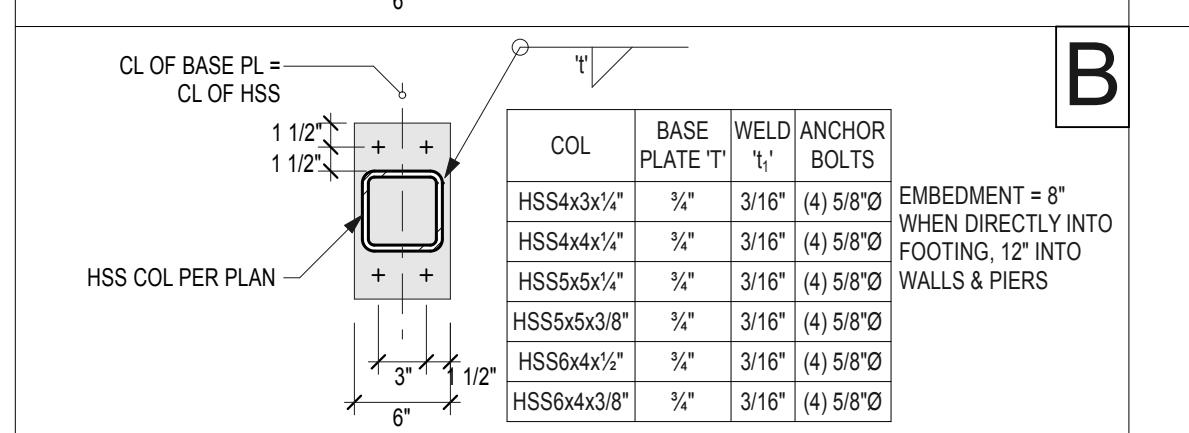
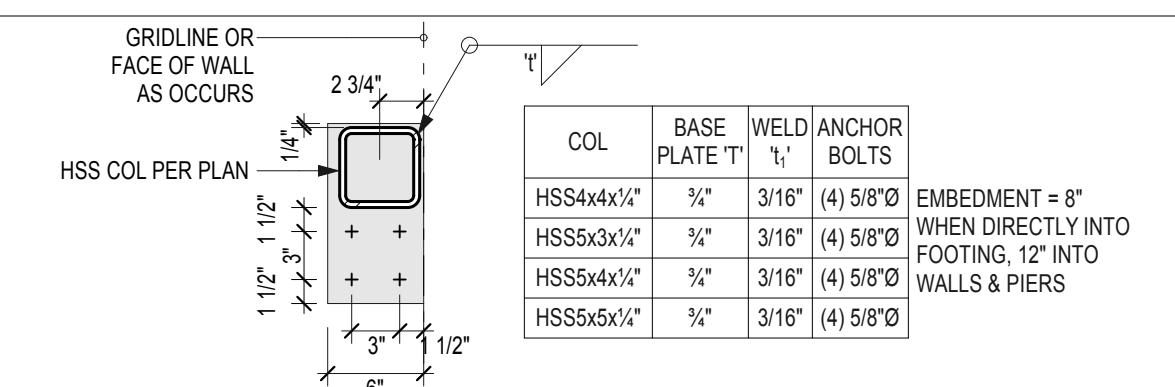
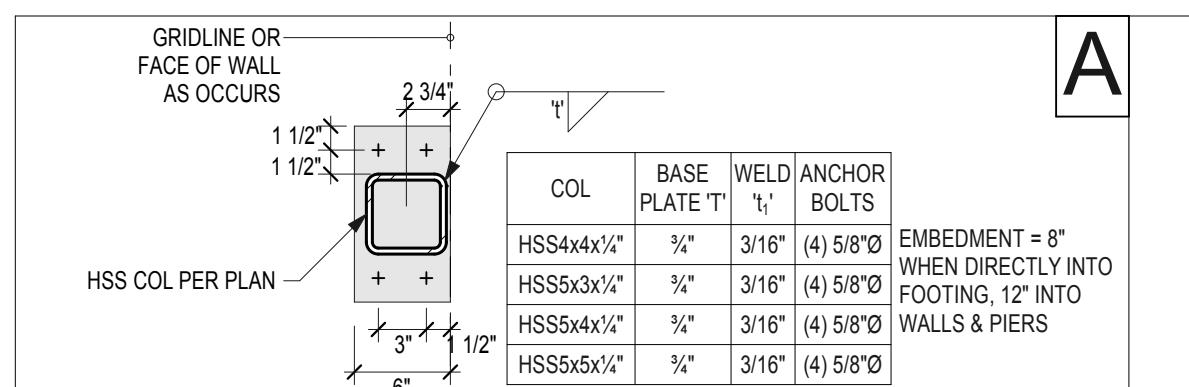
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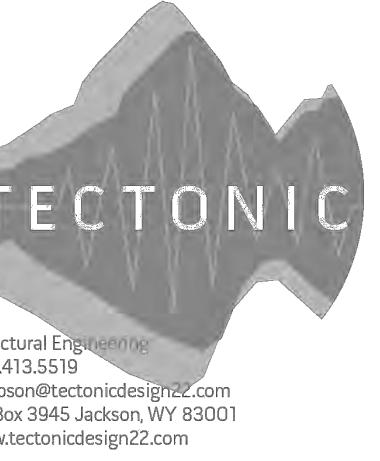
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DATE:	3/9/2023
PROJECT #:	22-011
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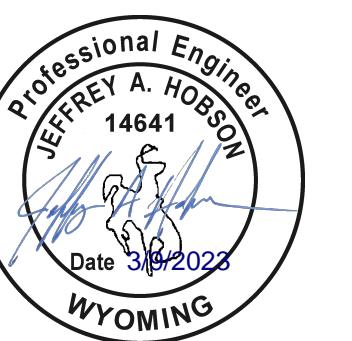
S4.0
Steel Framing Details





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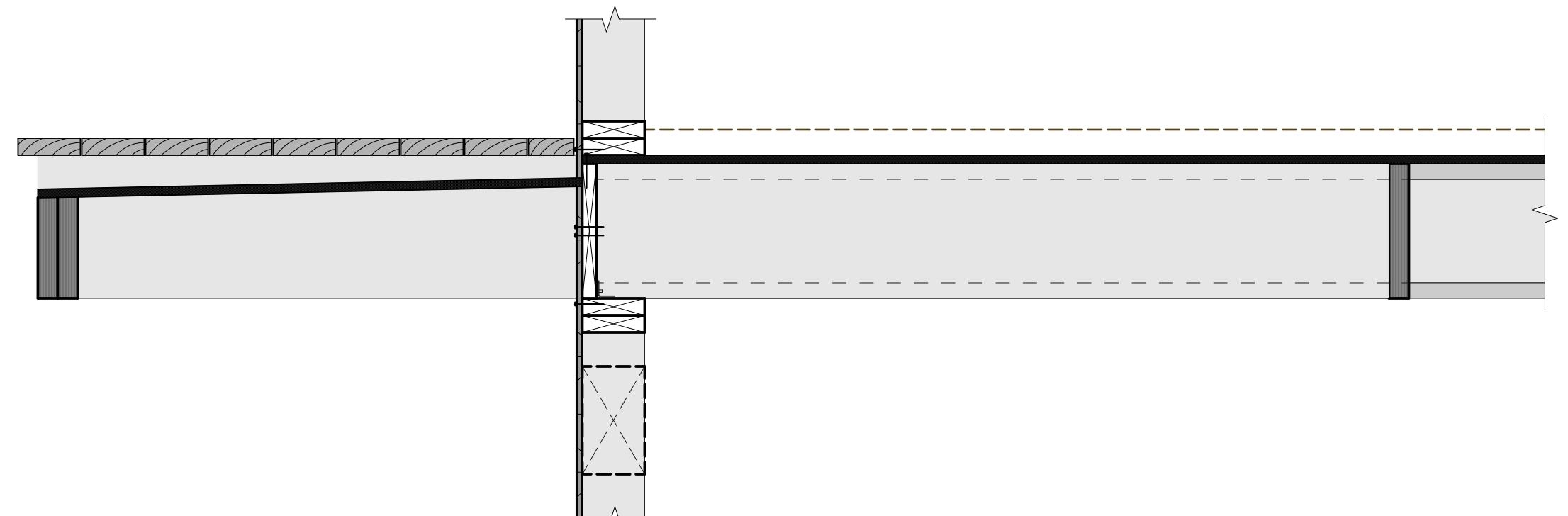
6165 Burcher Rd
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DATE: 3/9/2023
PROJECT #: 22-011
DRAWN: JAH
ISSUE:

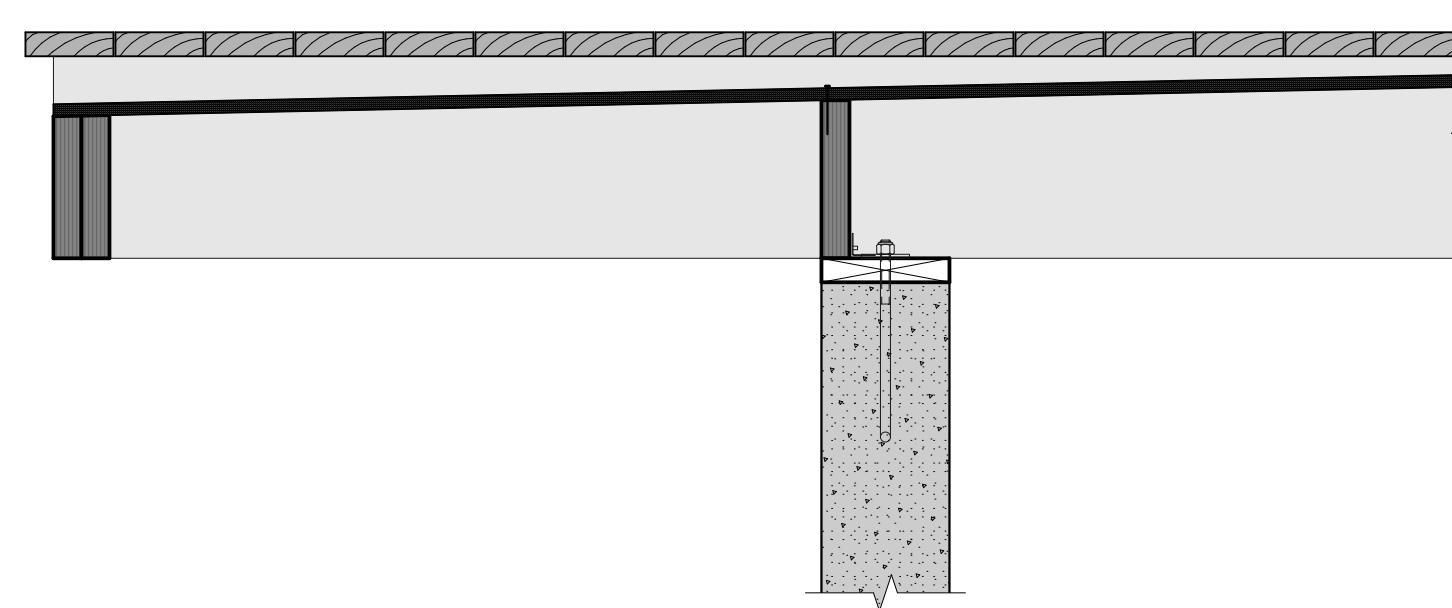
Building Permit Set 3.9.23

S5.0
Wood Framing Details

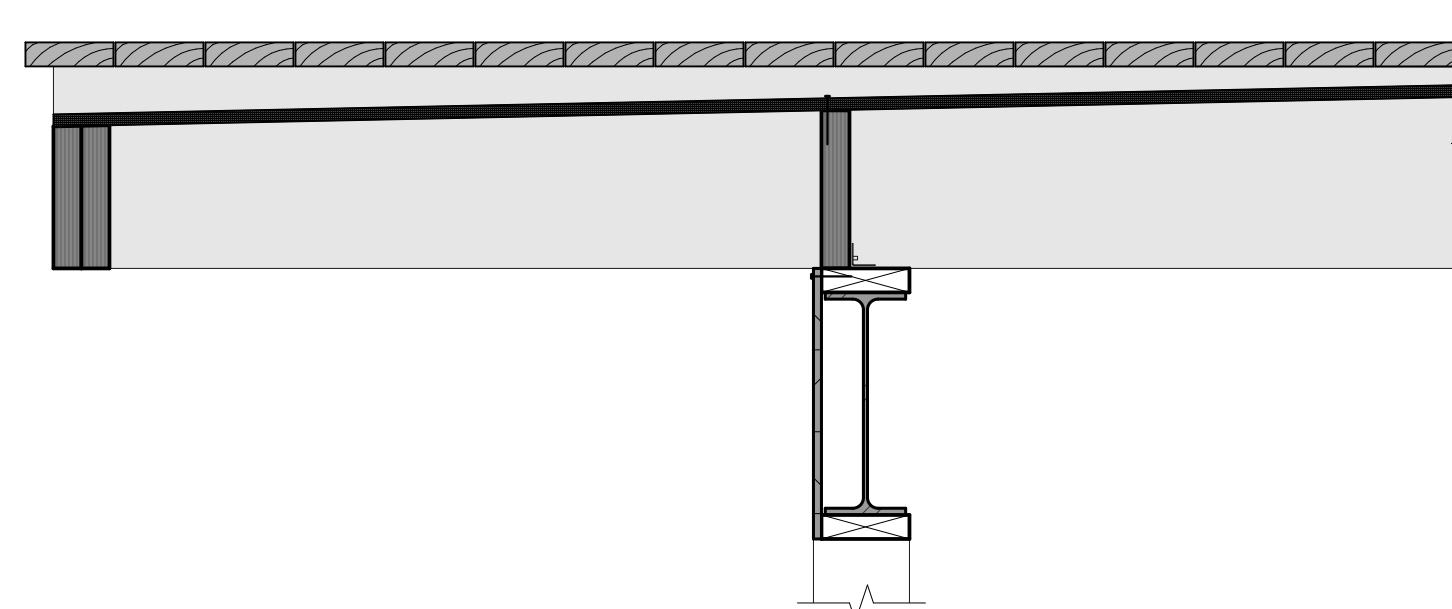
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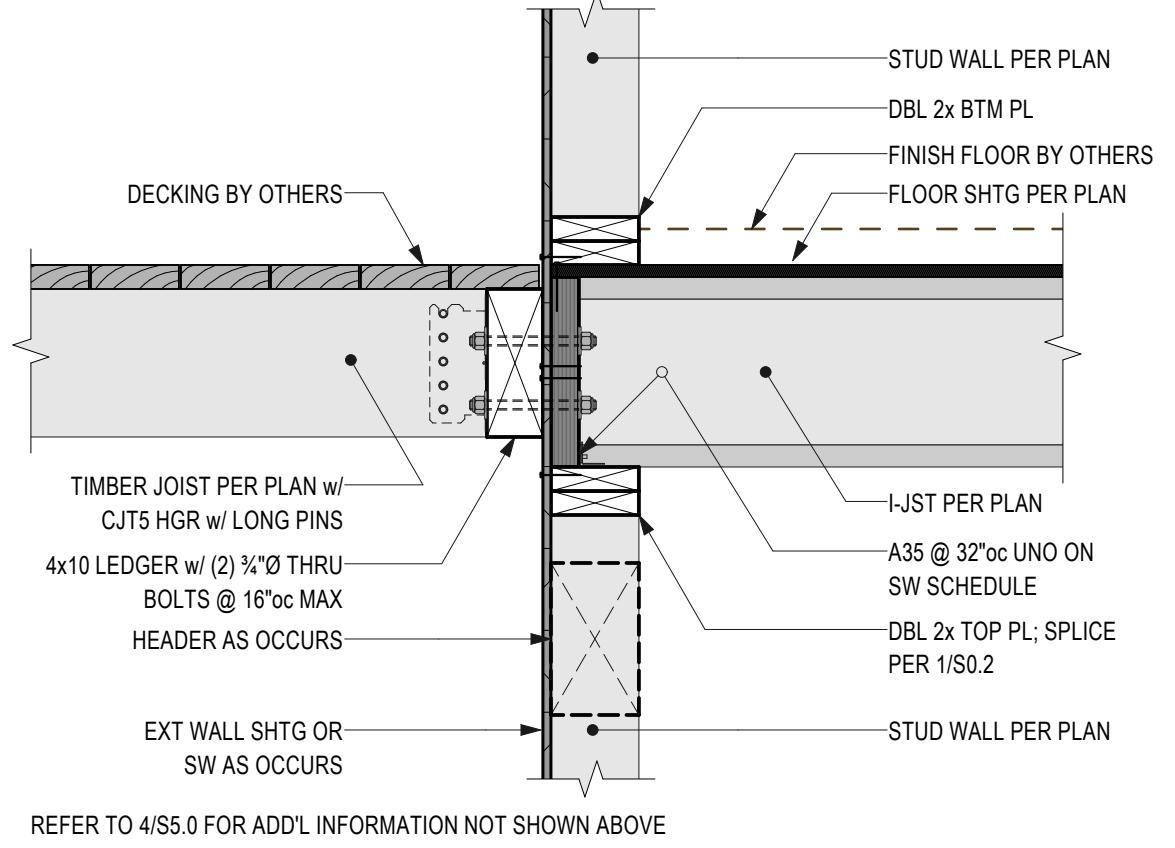
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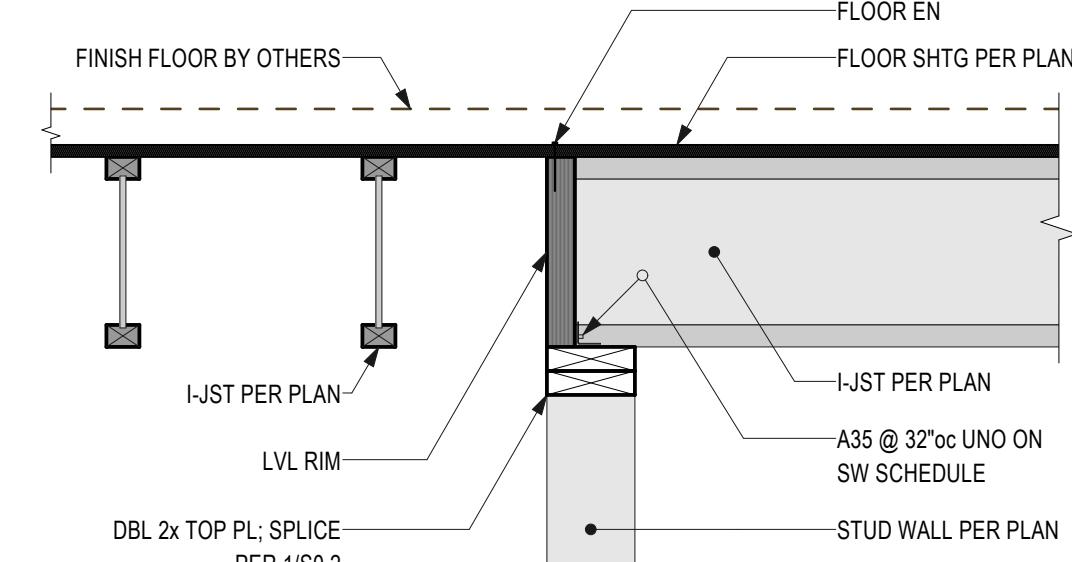
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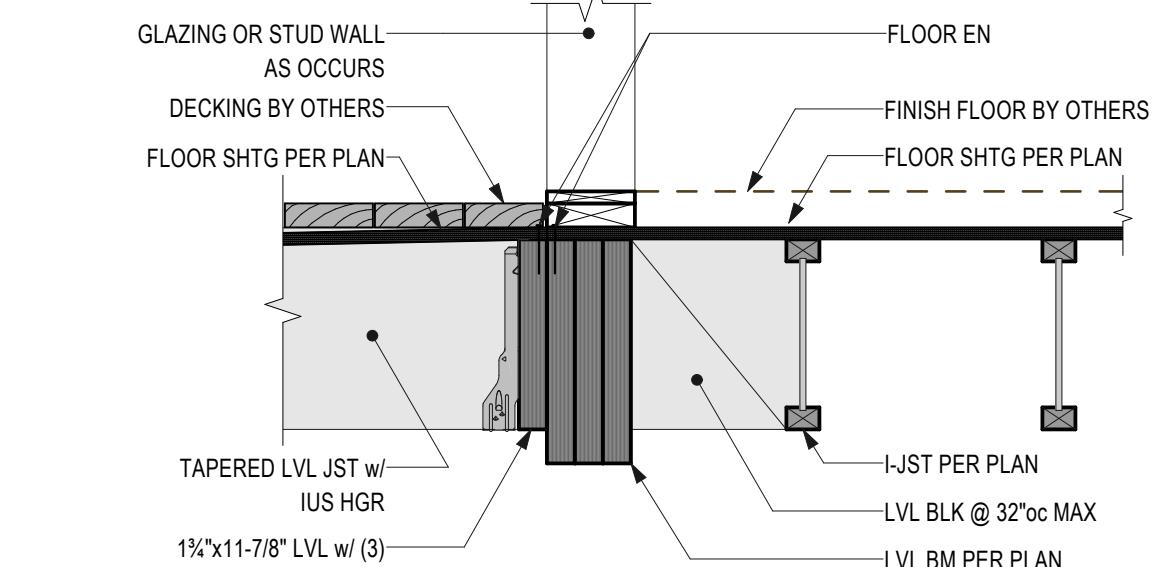
11 S-109 Framing Detail
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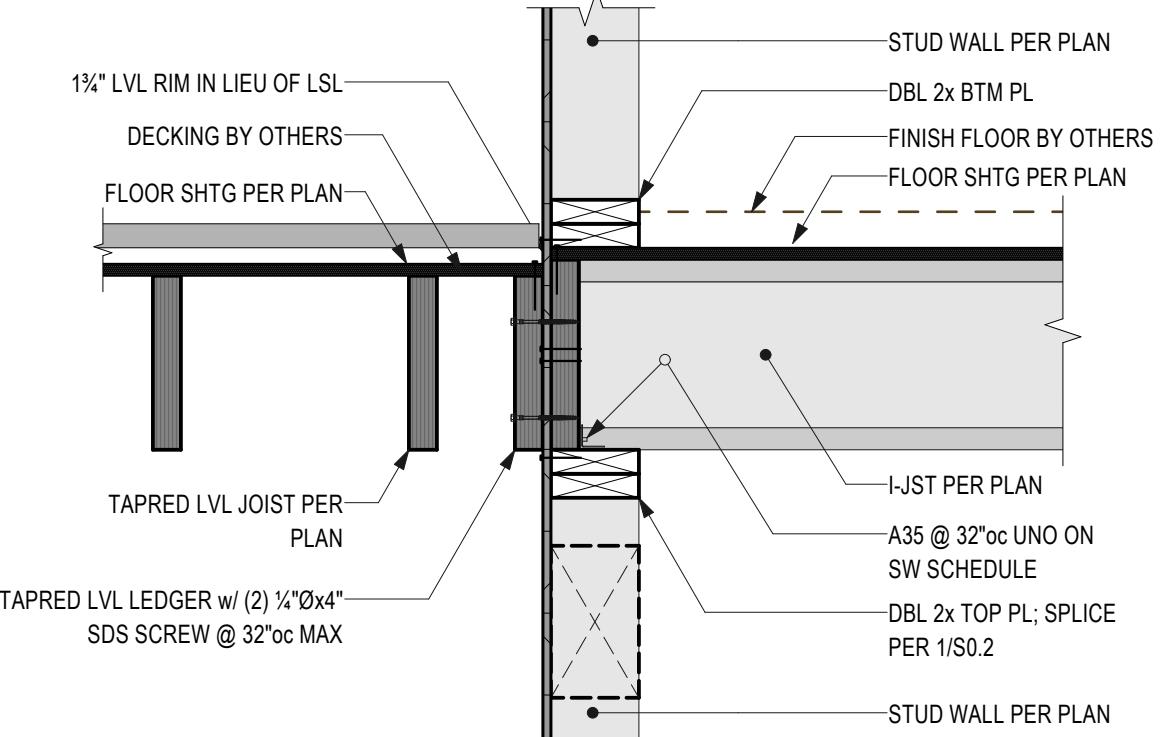
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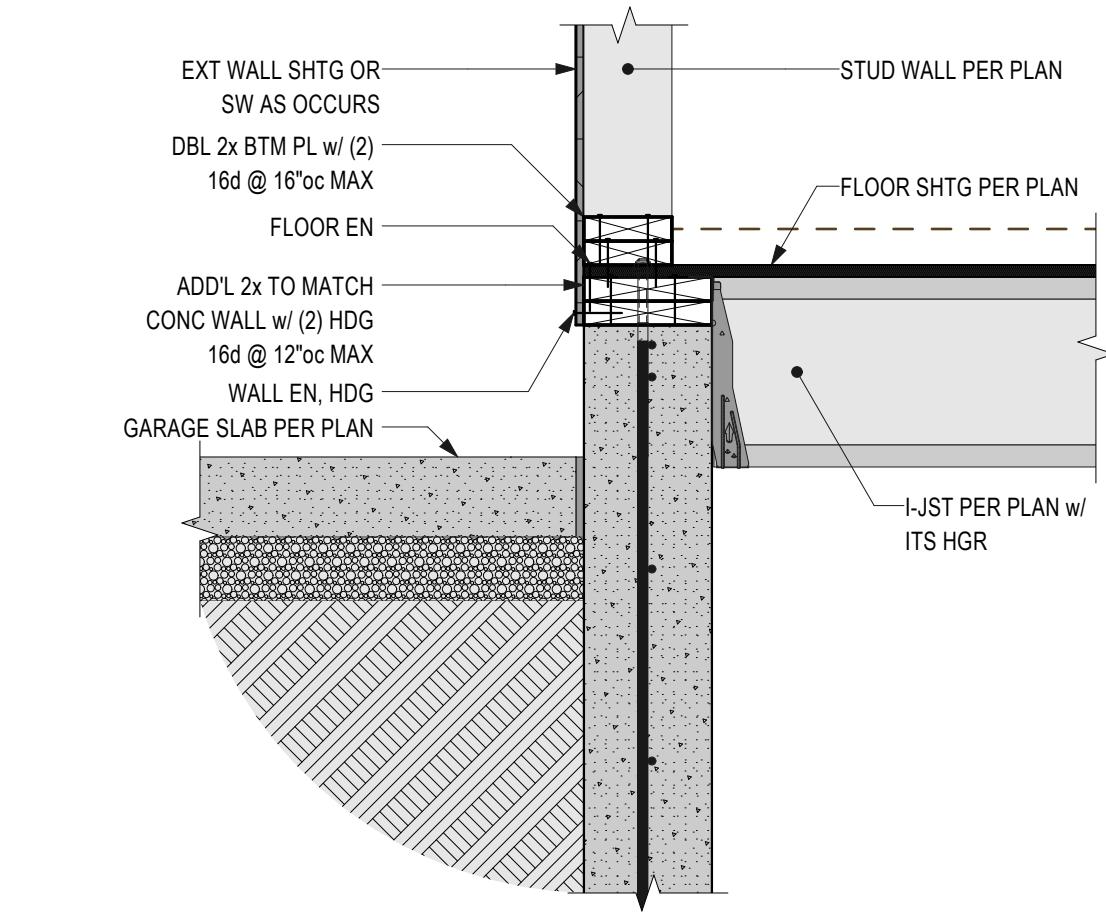
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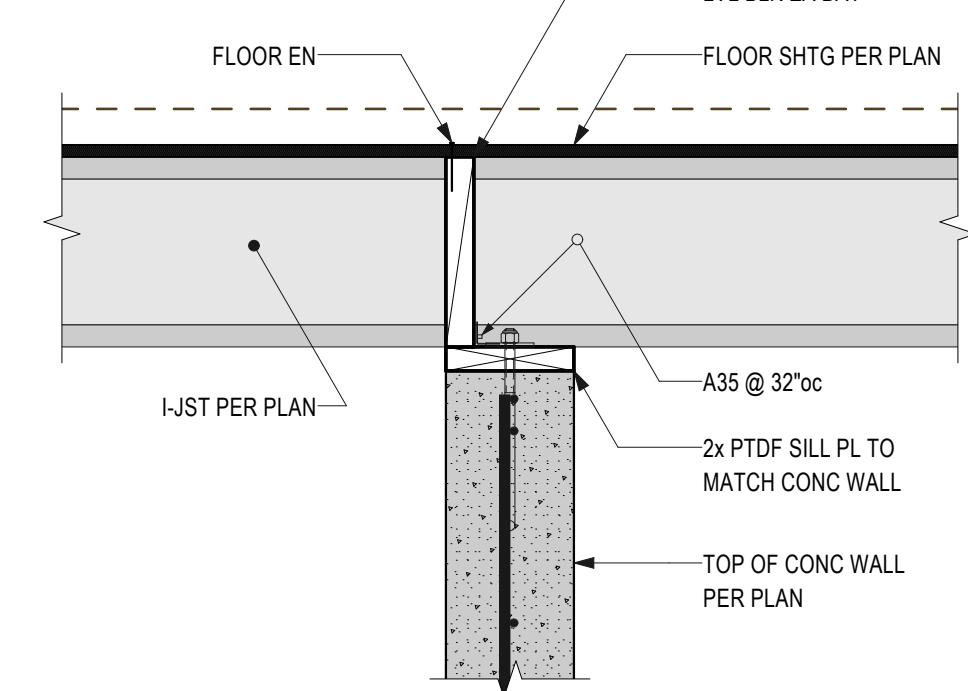
7 S-111 Framing Detail
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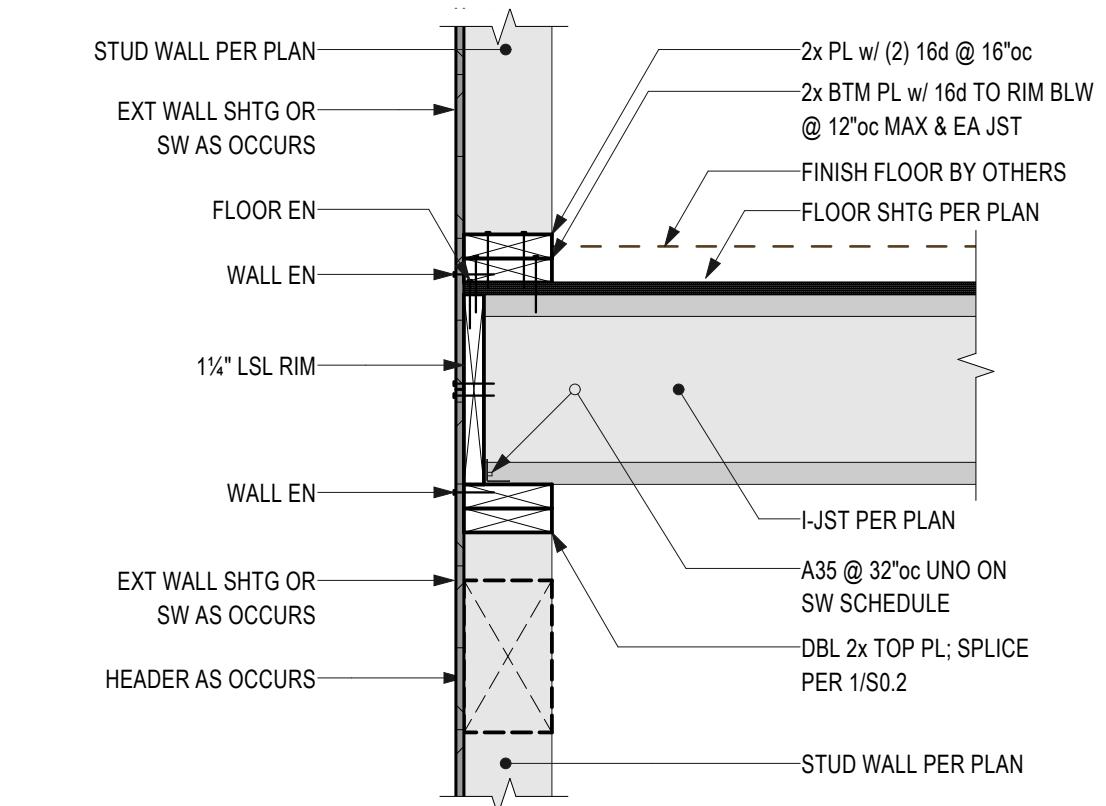
8 S-112 Framing Detail
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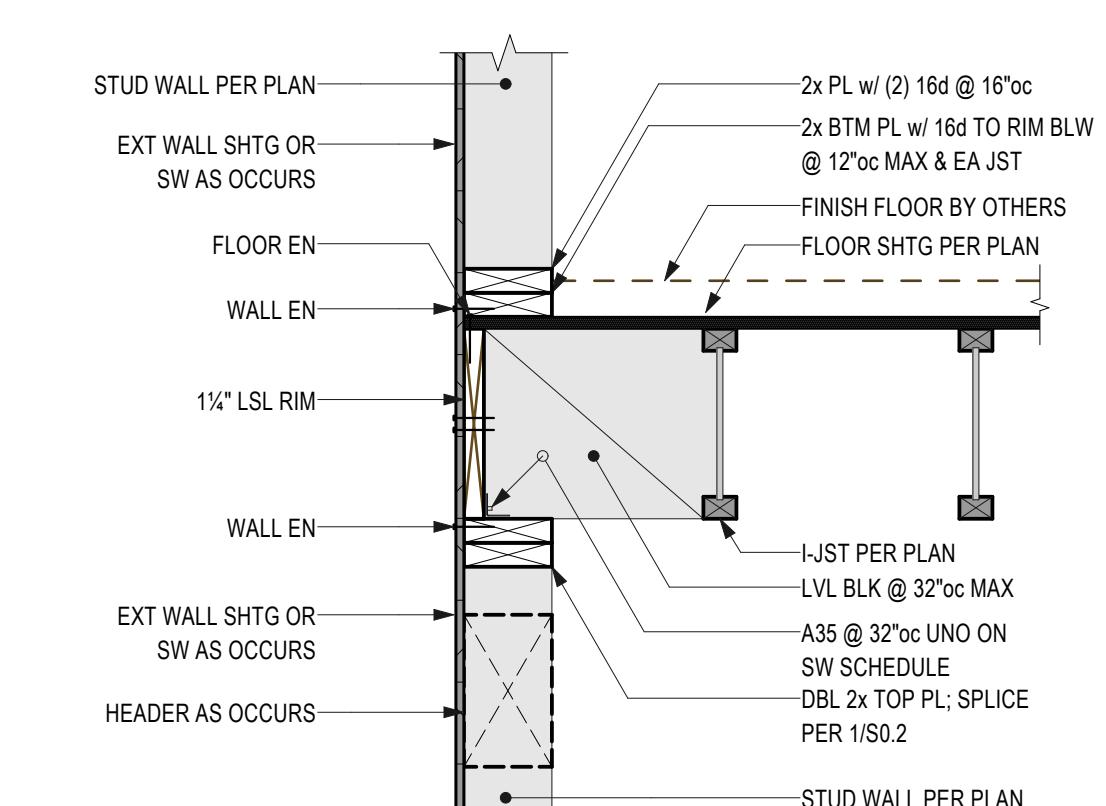
1 S-101 Framing Detail
SCALE: 1" = 1'-0"



2 S-102 Framing Detail
SCALE: 1" = 1'-0"



3 S-103 Framing Detail
SCALE: 1" = 1'-0"

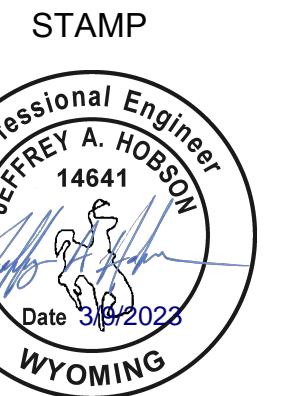


4 S-104 Framing Detail
SCALE: 1" = 1'-0"

REFER TO 4/S5.0 FOR ADDL INFORMATION NOT SHOWN ABOVE



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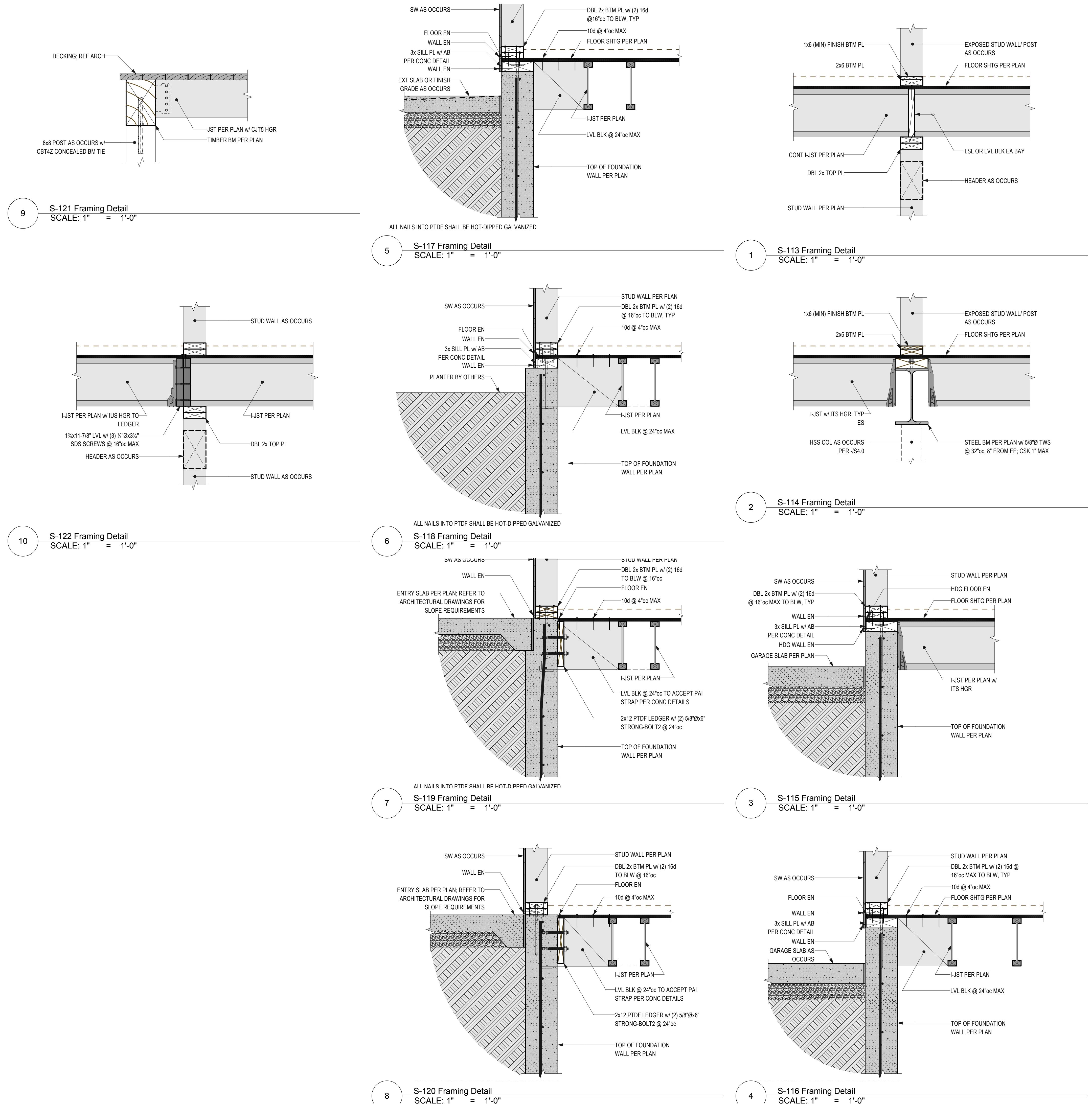
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PROJECT #: 22-011
DRAWN: JAH
ISSUE:

Building Permit Set 3.9.23

S5.1

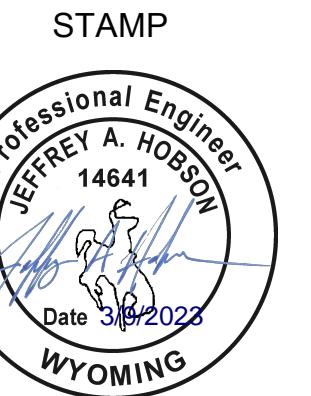
Wood Framing Details

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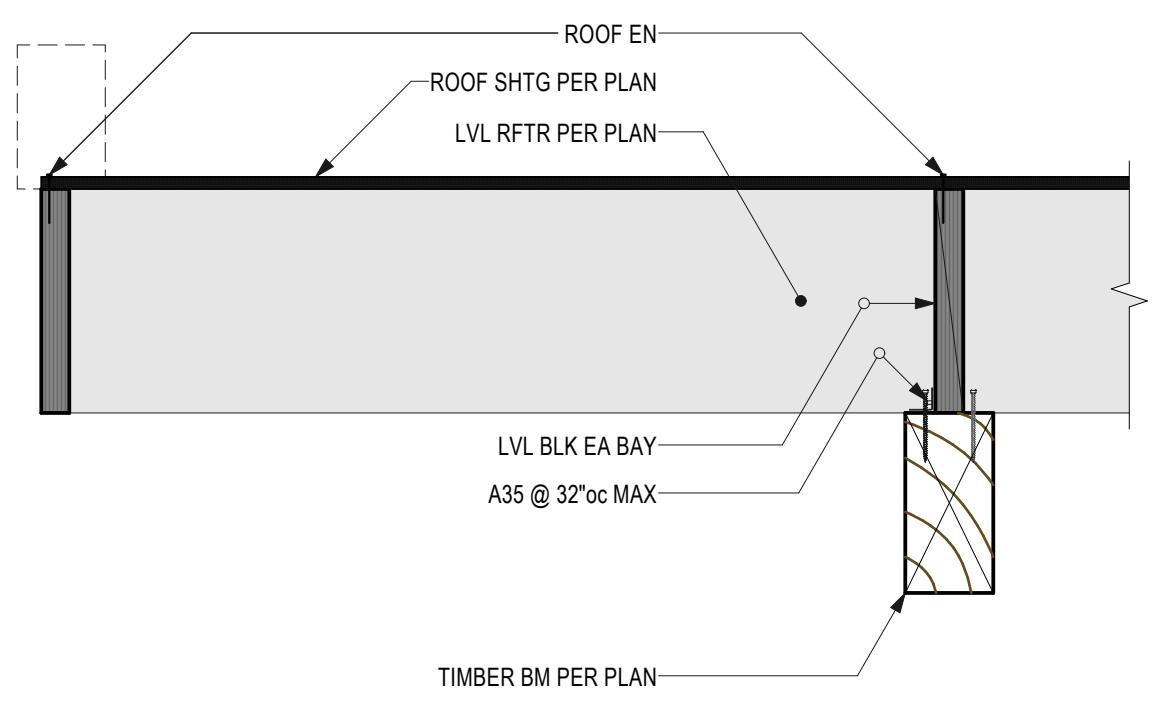
ROSSO COE RESIDENCE

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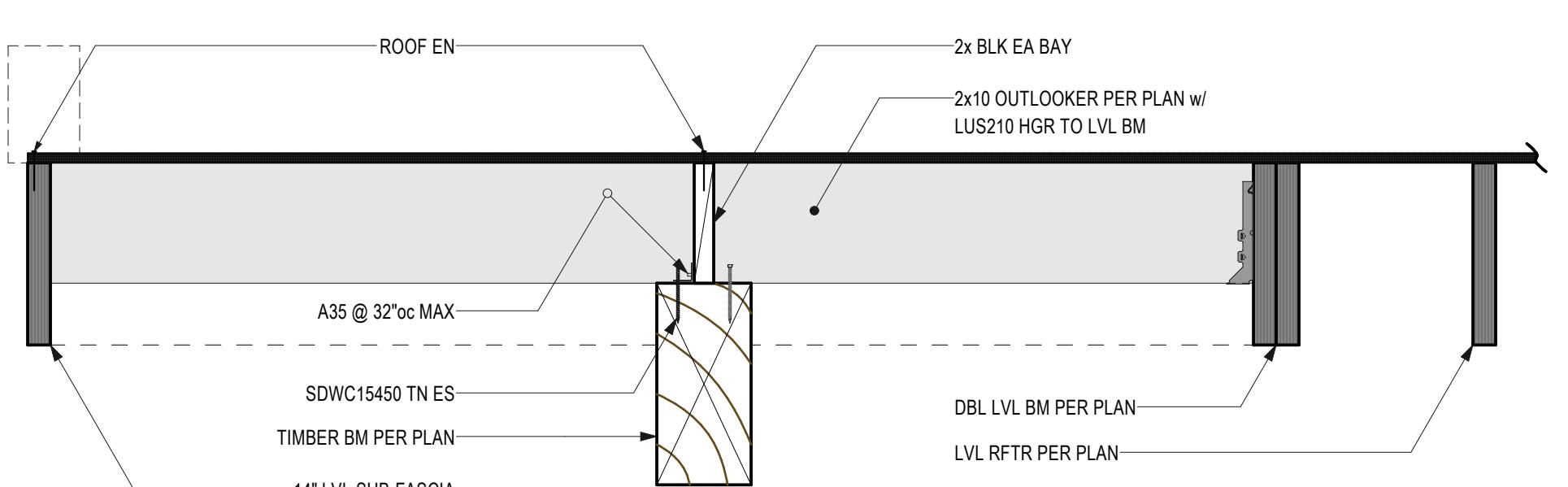
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DRAWN: JAH
ISSUE: Building Permit Set 3.9.23

S5.2 Wood Framing Details

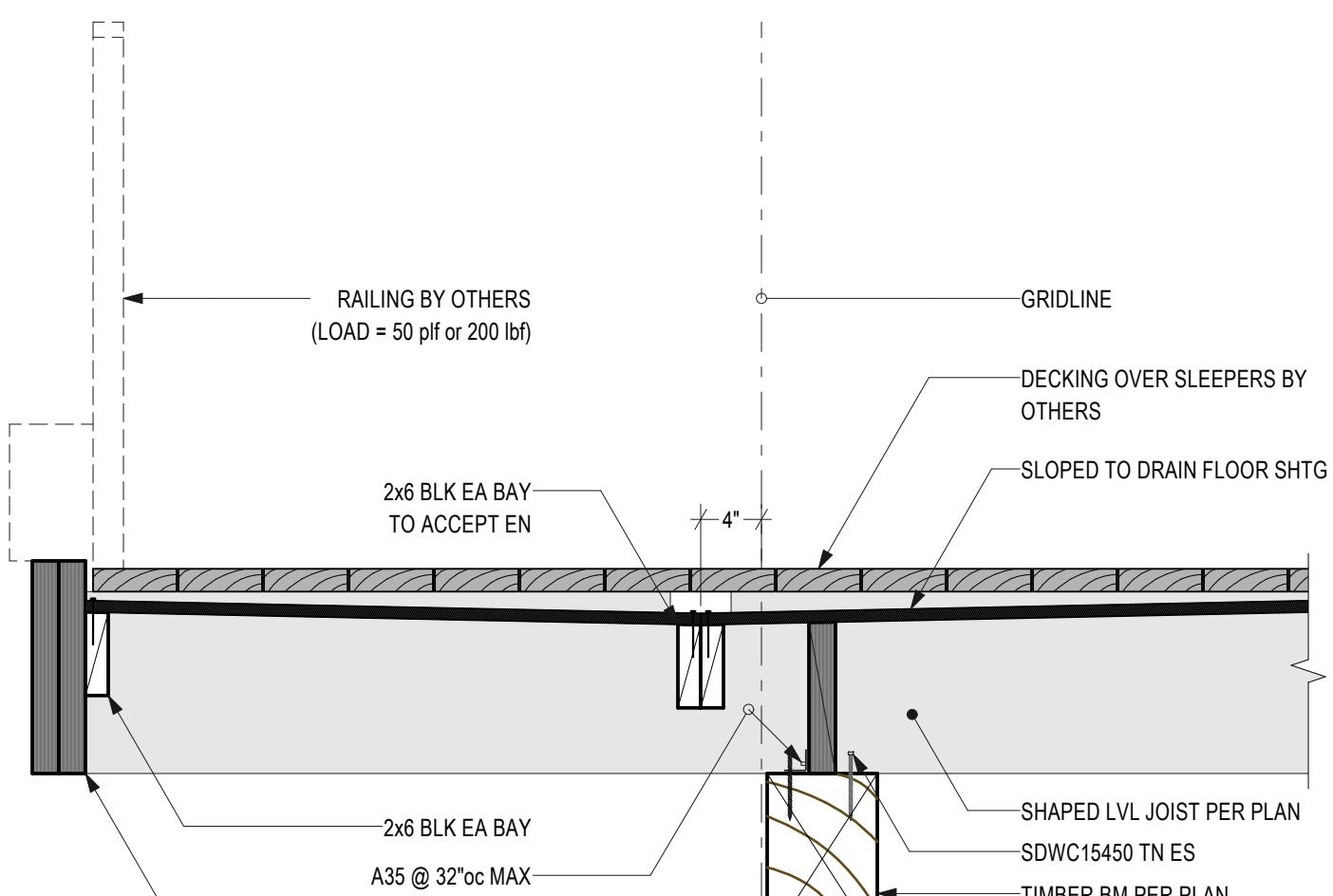
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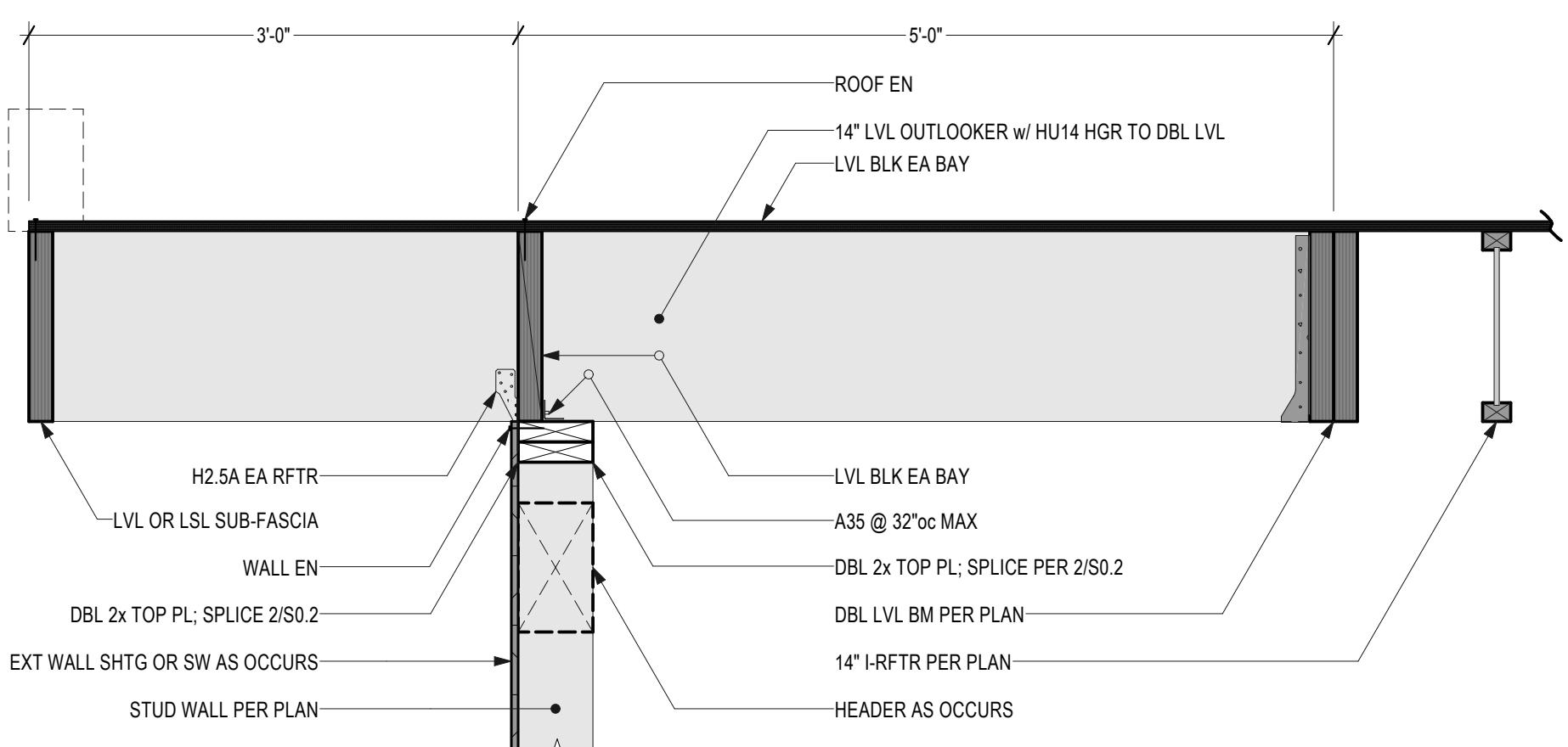
9 S-211 Framing Detail
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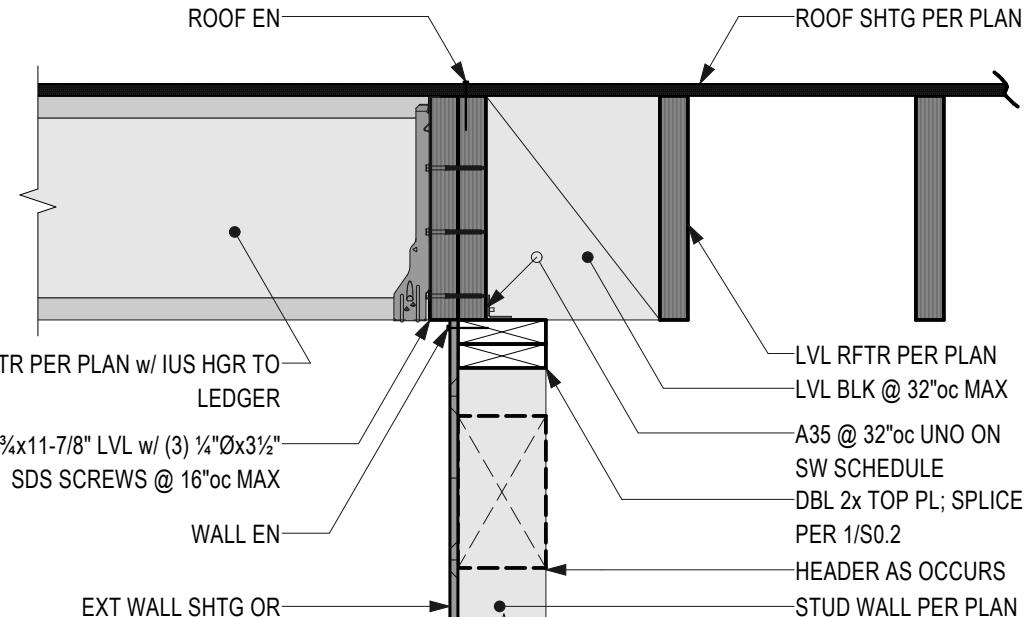
10 S-212 Framing Detail
SCALE: 1" = 1'-0"



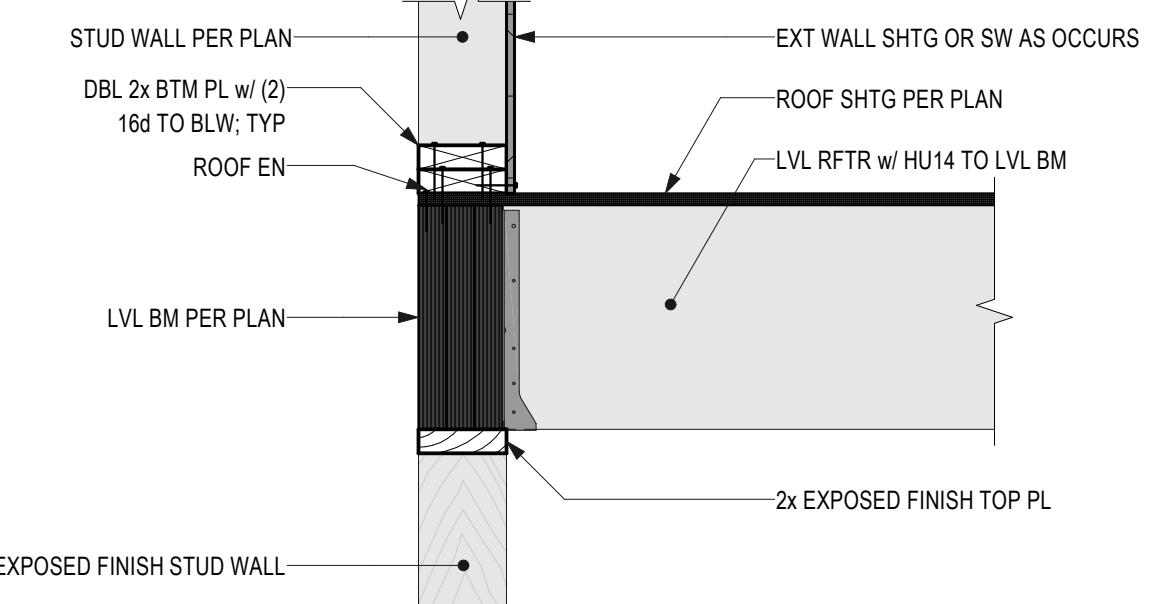
11 S-213 Framing Detail
SCALE: 1" = 1'-0"



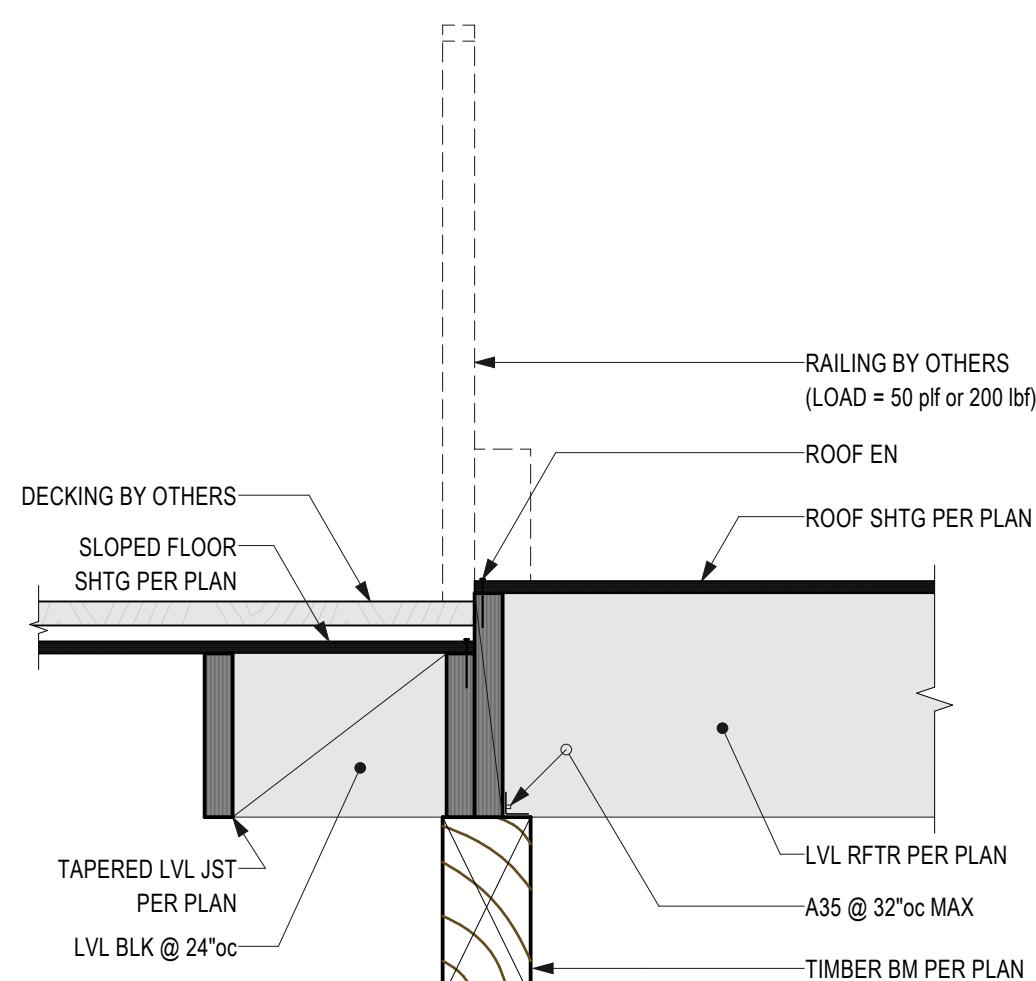
12 S-222 Framing Detail
SCALE: 1" = 1'-0"



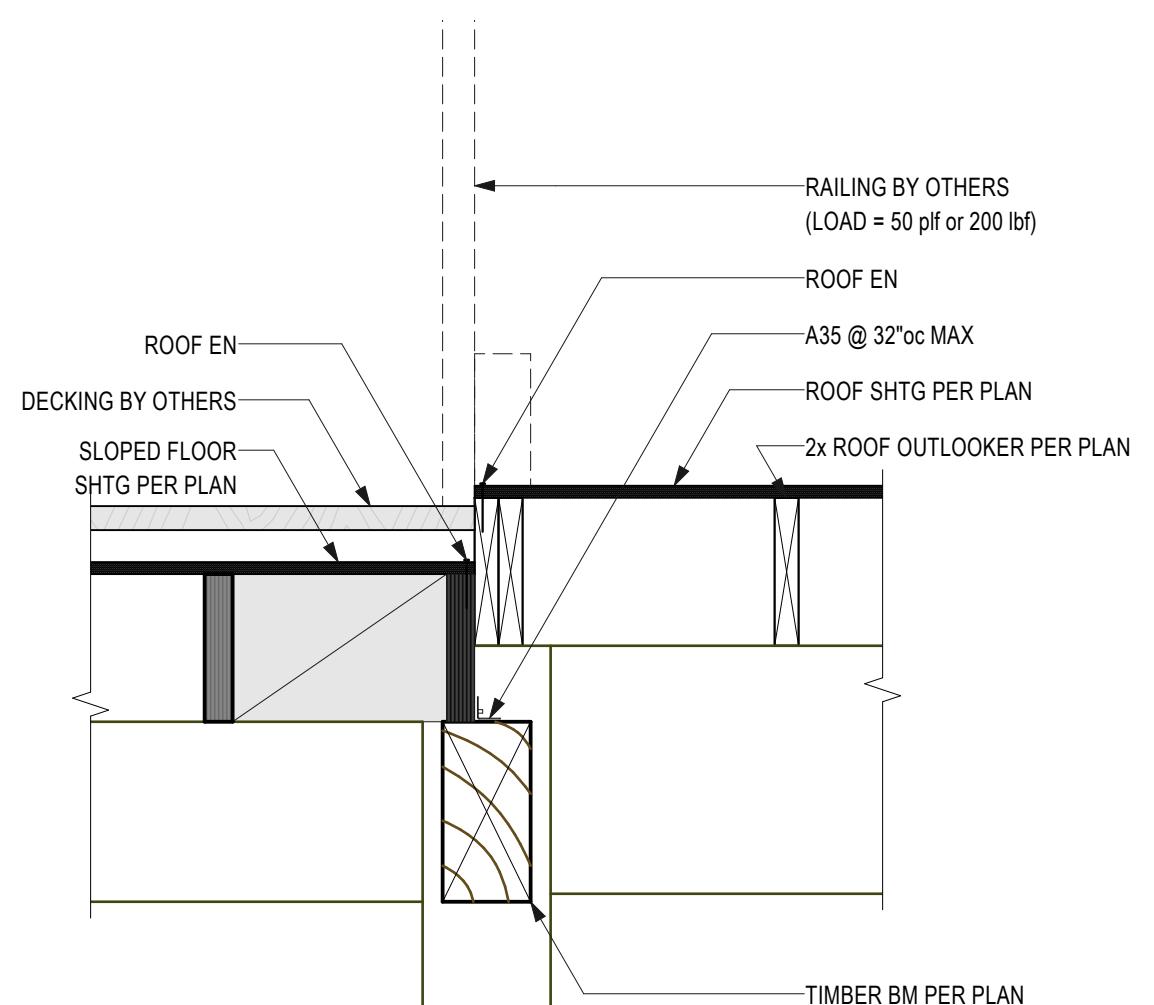
5 S-207 Framing Detail
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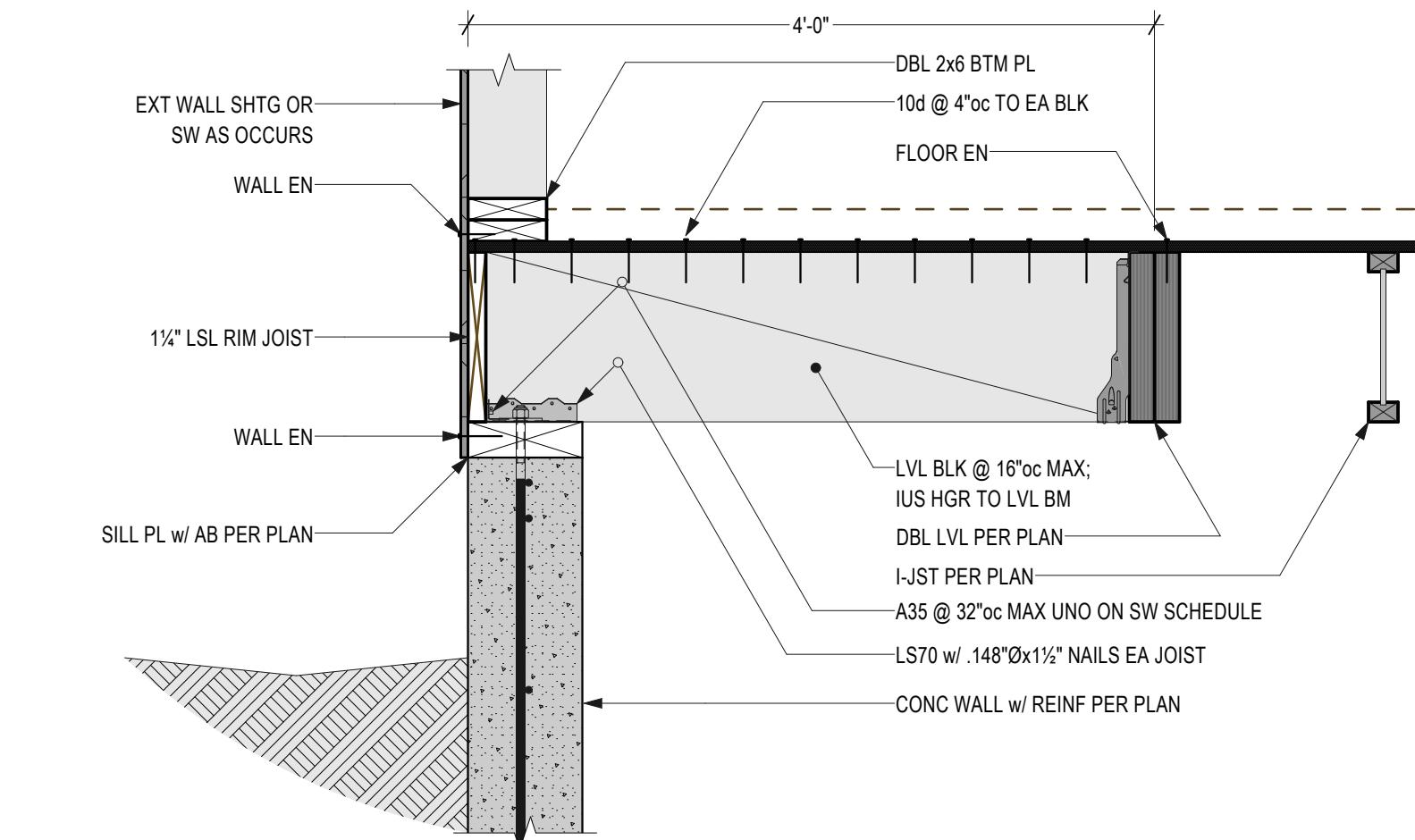
6 S-210 Framing Detail
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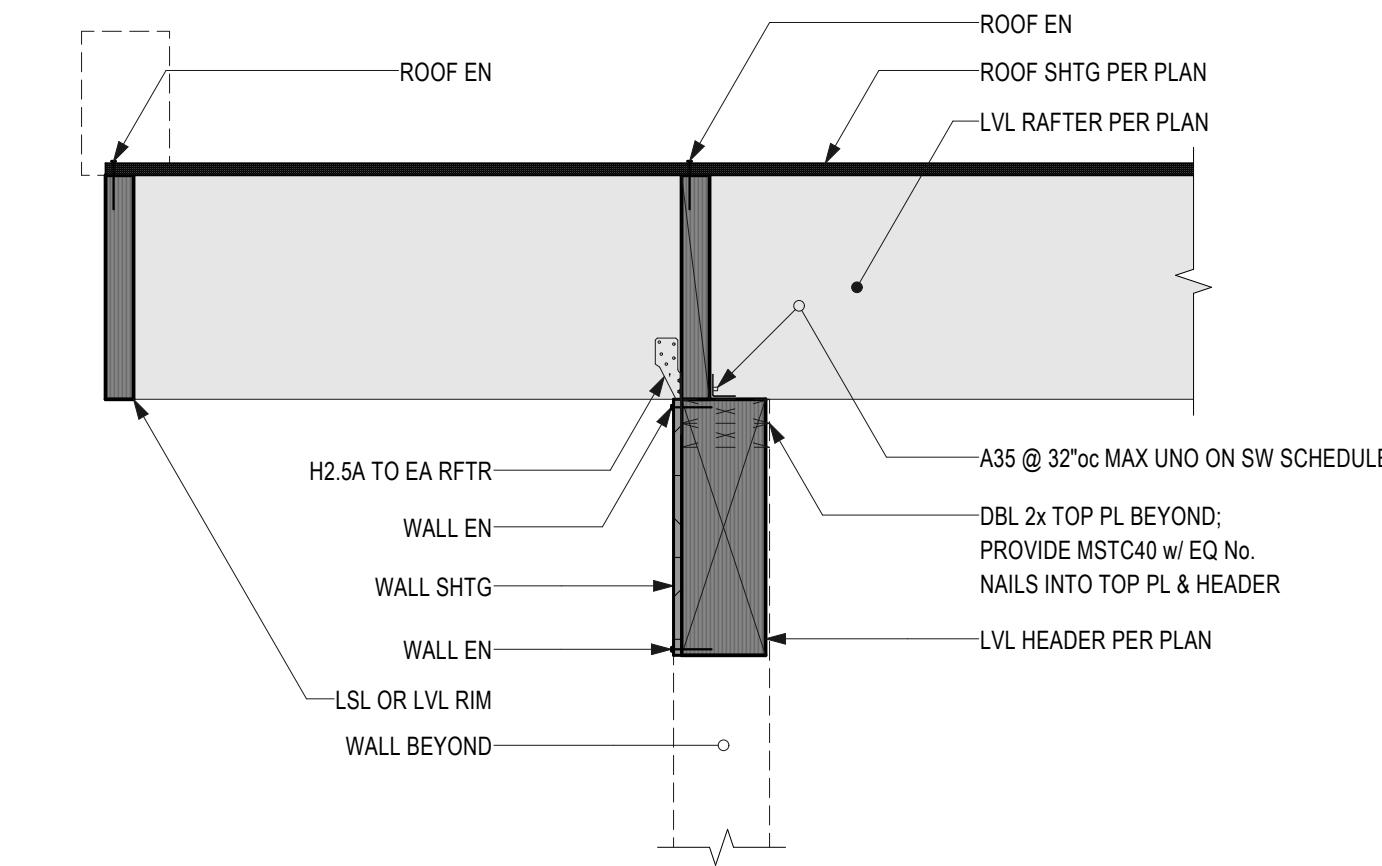
7 S-214 Framing Detail
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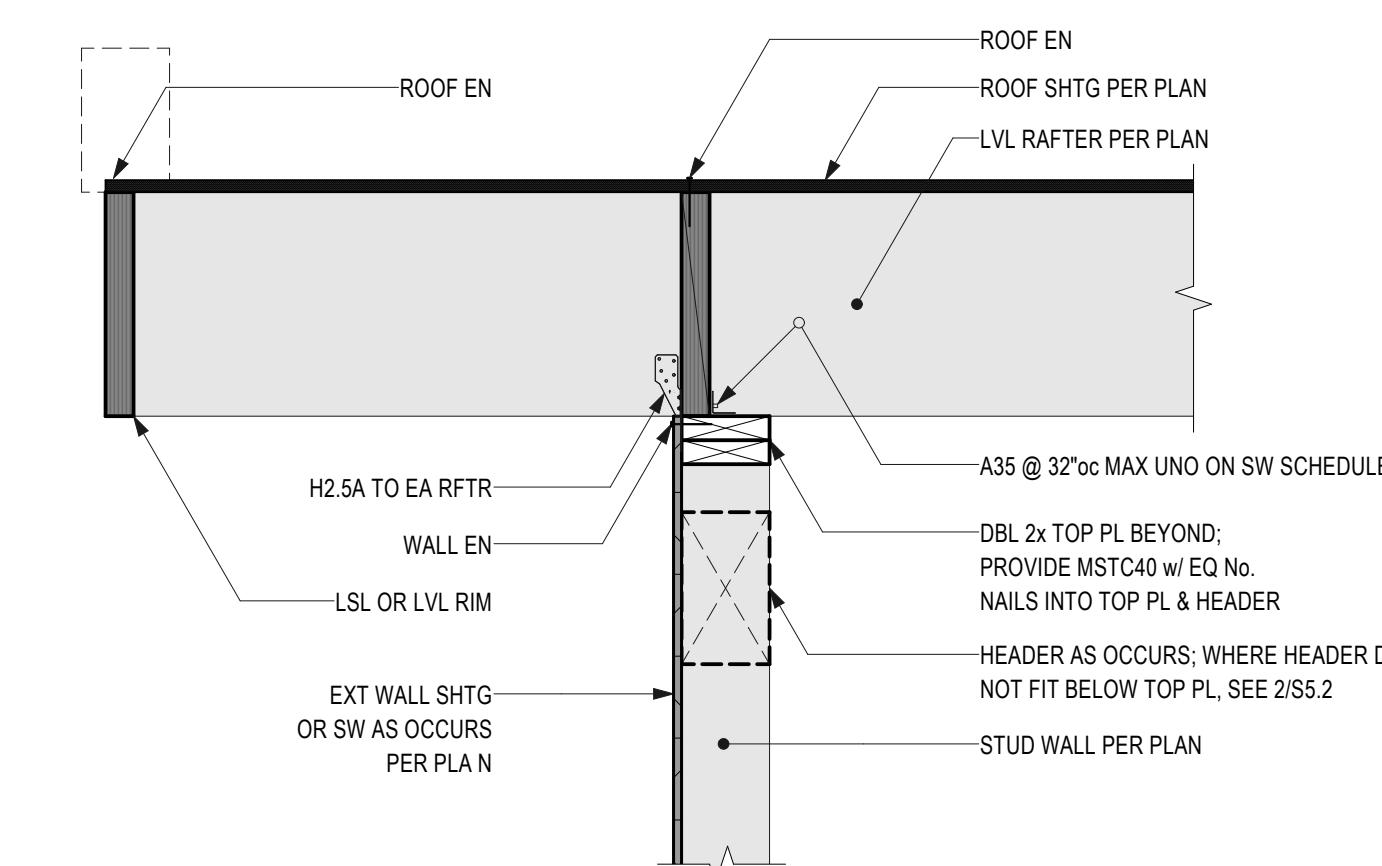
8 S-223 Framing Detail
SCALE: 1" = 1'-0"



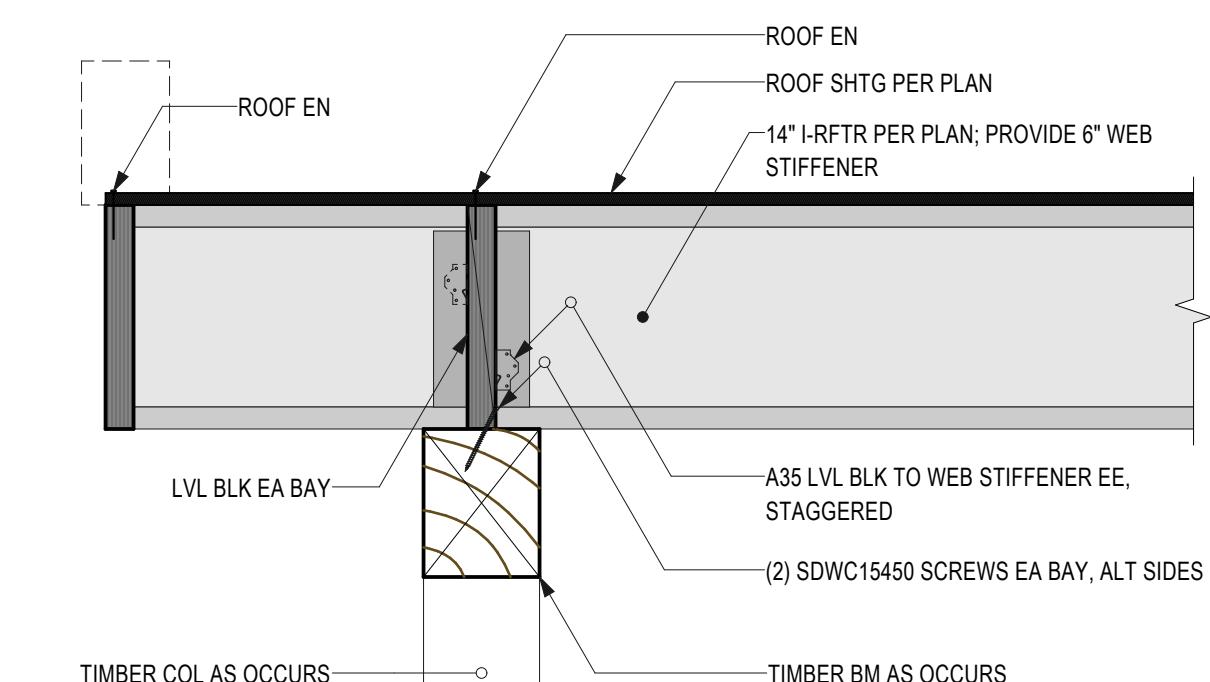
1 S-201 Framing Detail
SCALE: 1" = 1'-0"



2 S-204 Framing Detail
SCALE: 1" = 1'-0"



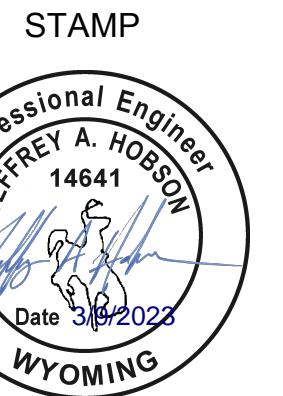
3 S-205 Framing Detail
SCALE: 1" = 1'-0"



4 S-206 Framing Detail
SCALE: 1" = 1'-0"



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PERMIT SET

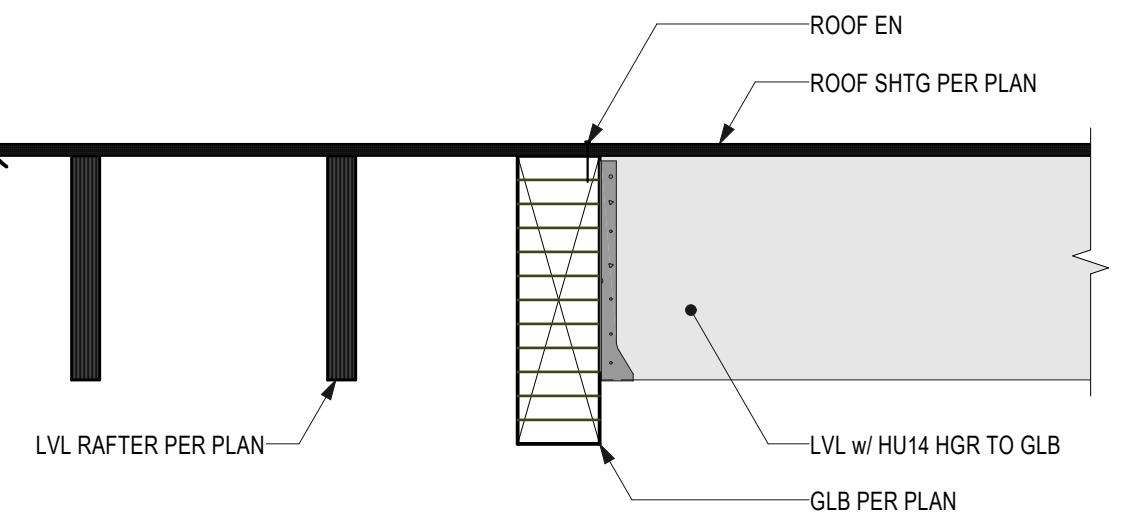
ROSSO COE RESIDENCE

6165 Burcher Rd
Wilson WY 83014

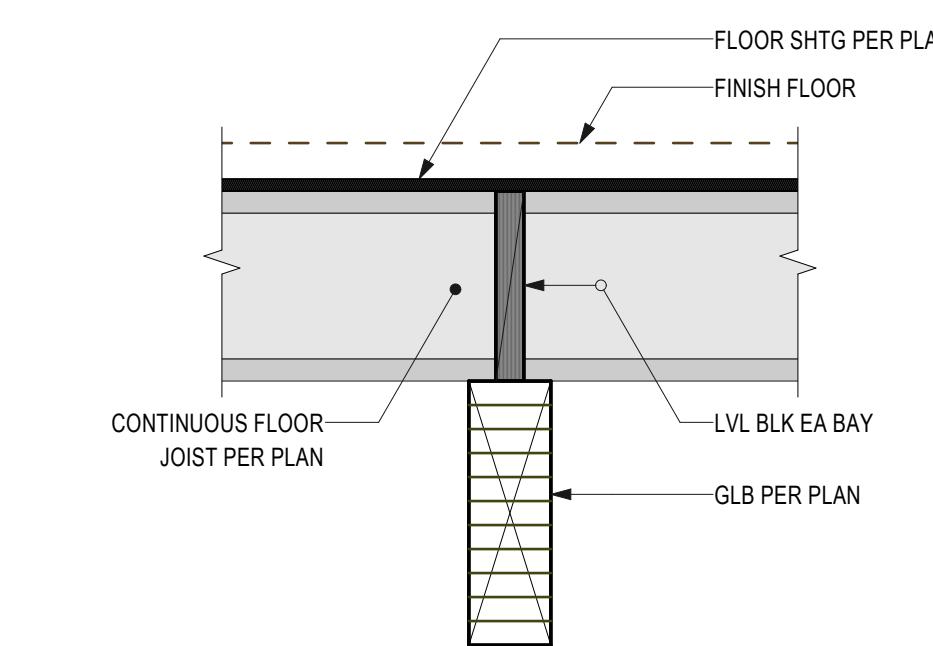
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PROJECT #:	22-011
DRAWN:	JAH
ISSUE:	Building Permit Set 3.9.23

S5.3
Framing Details

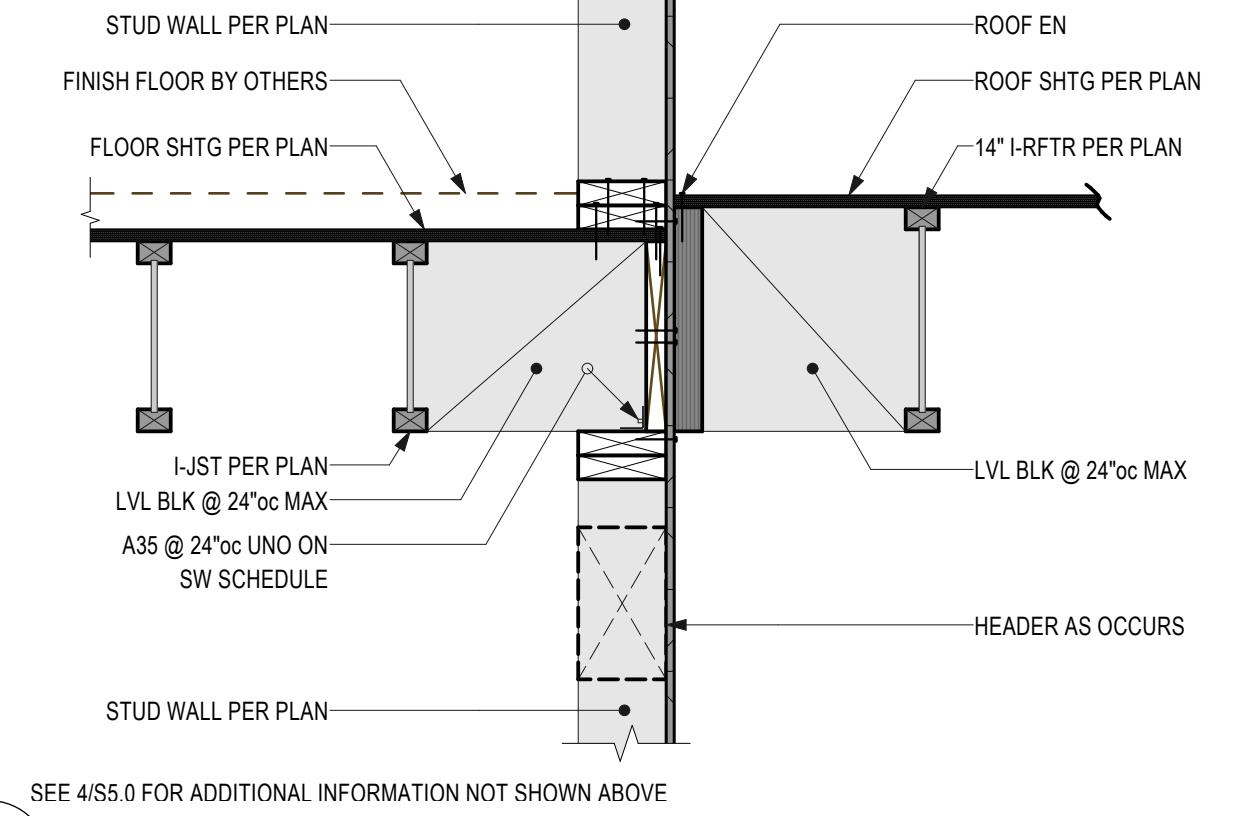
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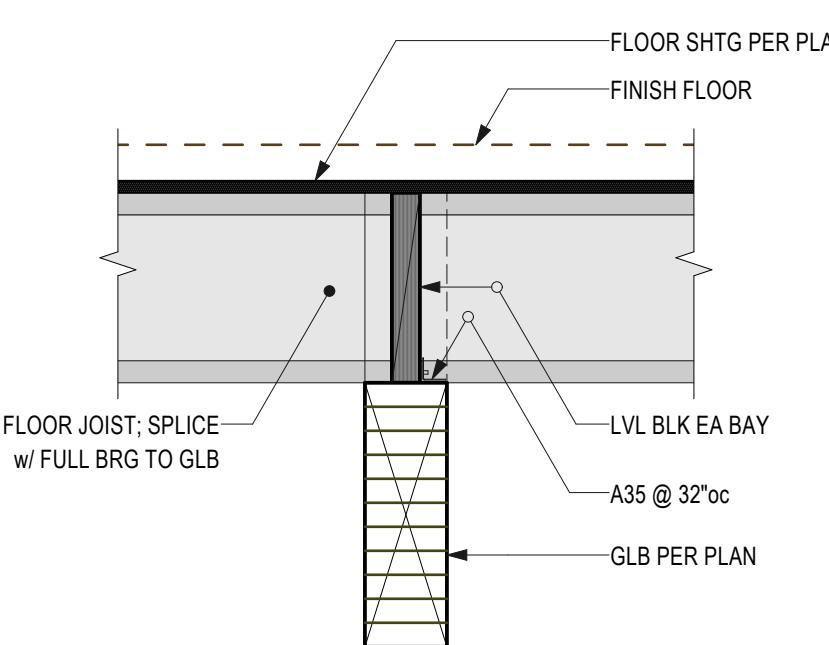
5 S-219 Framing Detail
SCALE: 1" = 1'-0"



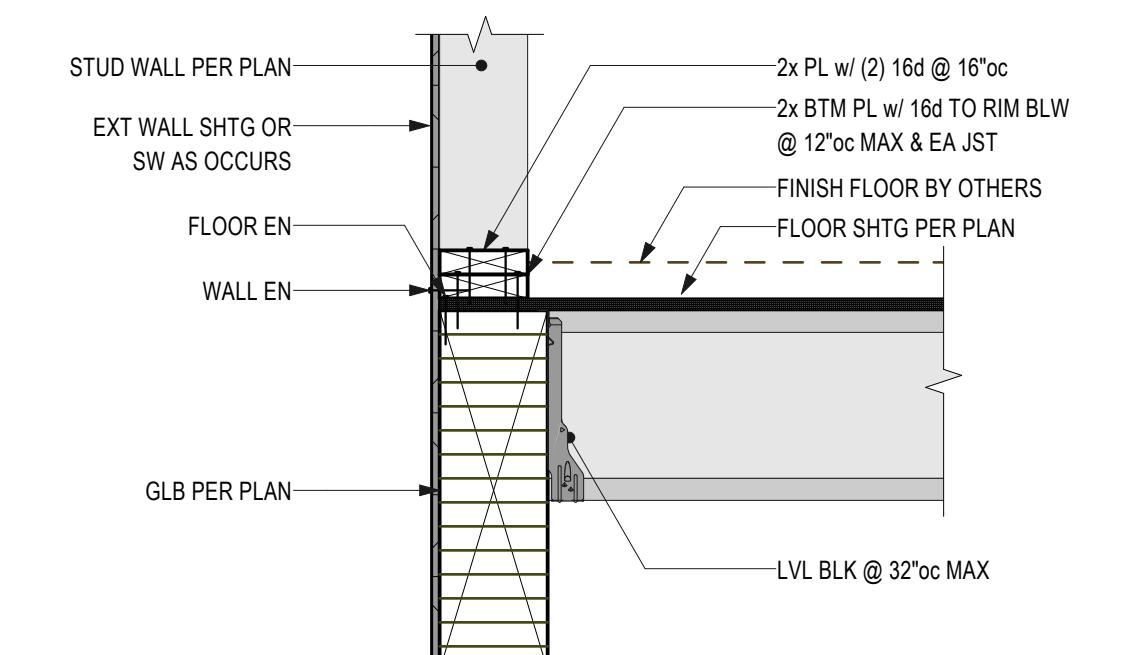
1 S-215 Framing Detail
SCALE: 1" = 1'-0"



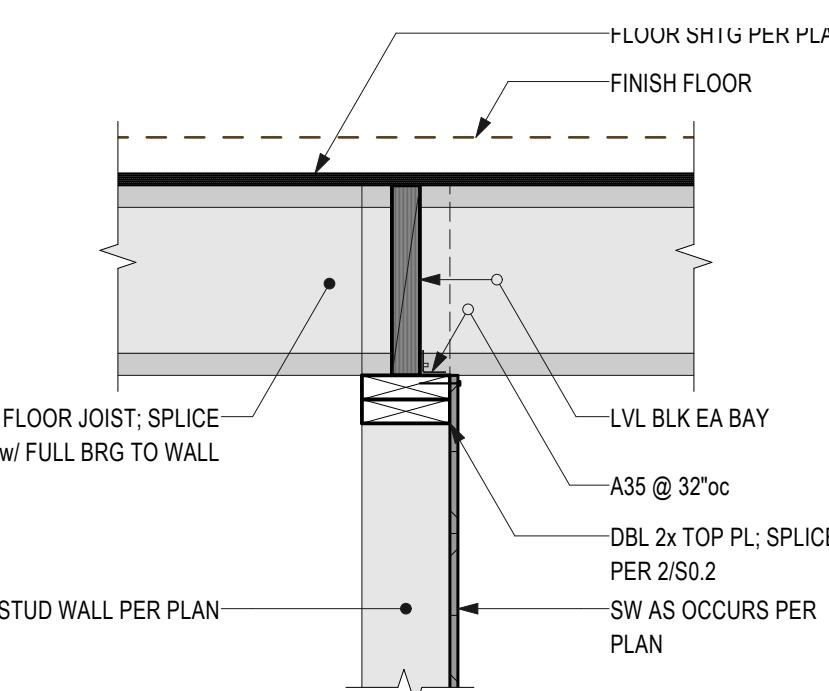
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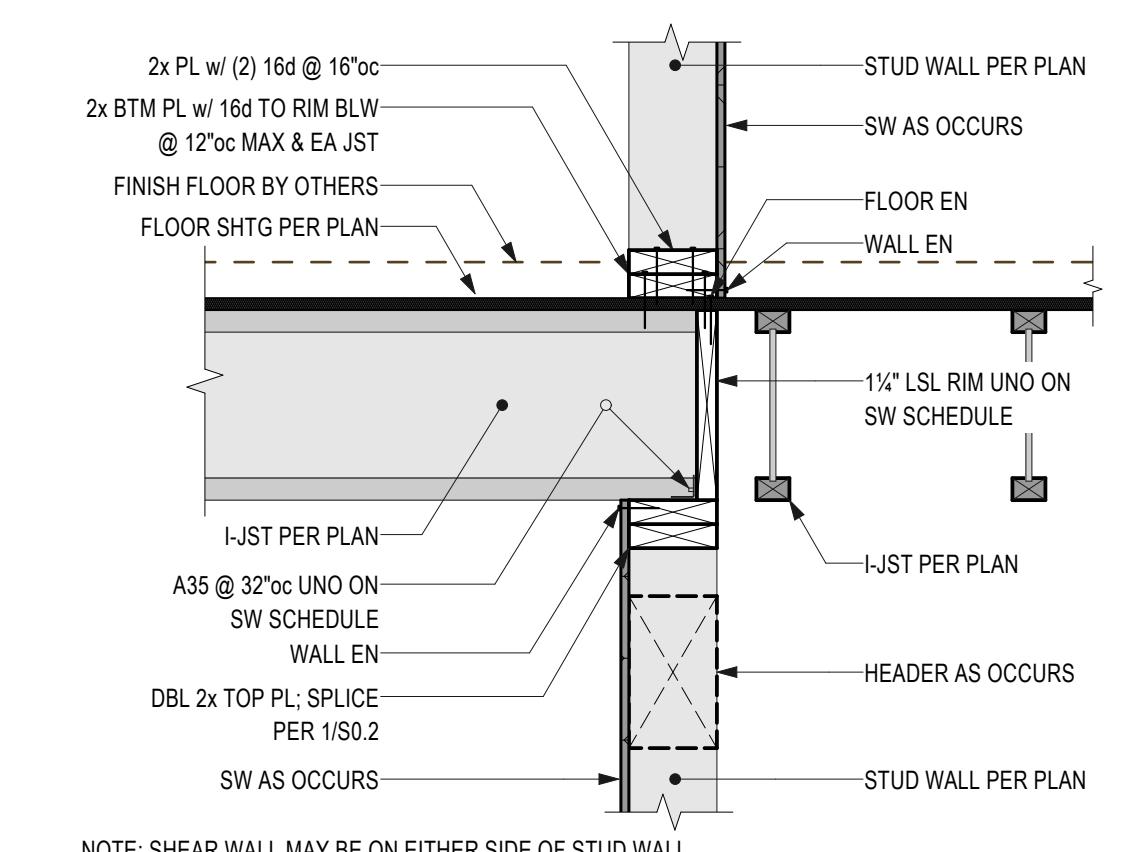
2 S-216 Framing Detail
SCALE: 1" = 1'-0"



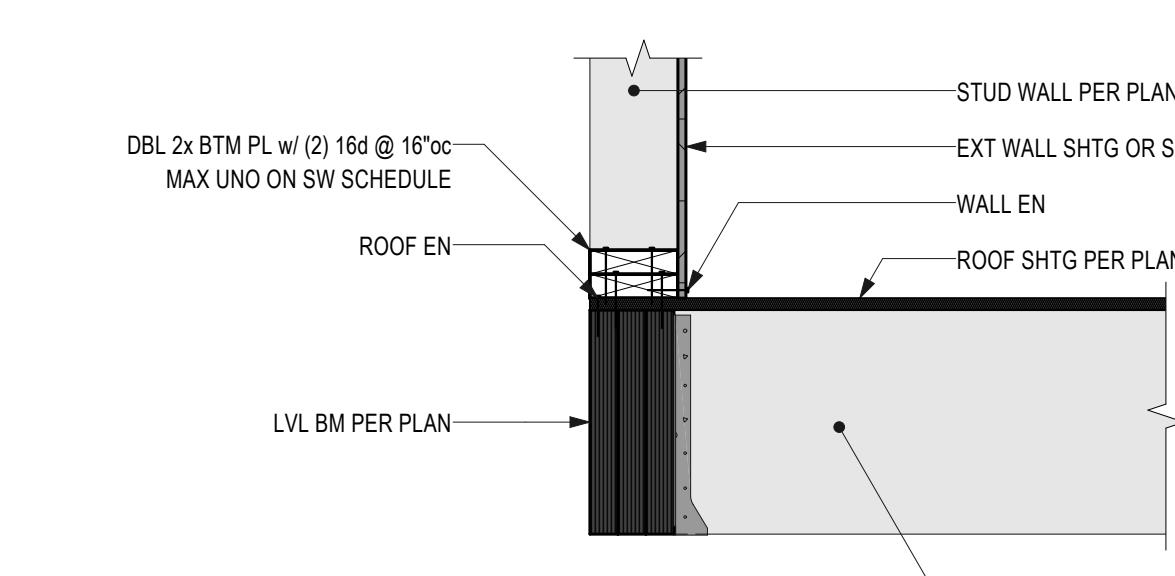
7 S-221 Framing Detail
SCALE: 1" = 1'-0"



3 S-217 Framing Detail
SCALE: 1" = 1'-0"



8 S-224 Framing Detail
SCALE: 1" = 1'-0"



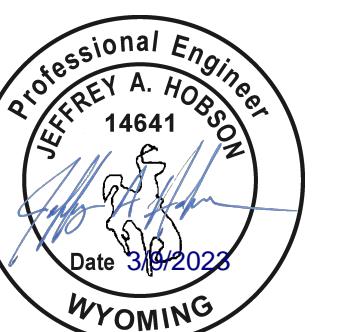
4 S-218 Framing Detail
SCALE: 1" = 1'-0"



Structural Engineering
j.hobson@tectonicdesignsinc.com
PO Box 3945 Jackson, WY 83001
www.tectonicdesigns22.com

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STAMP



PERMIT SET

ROSSCOE RESIDENCE

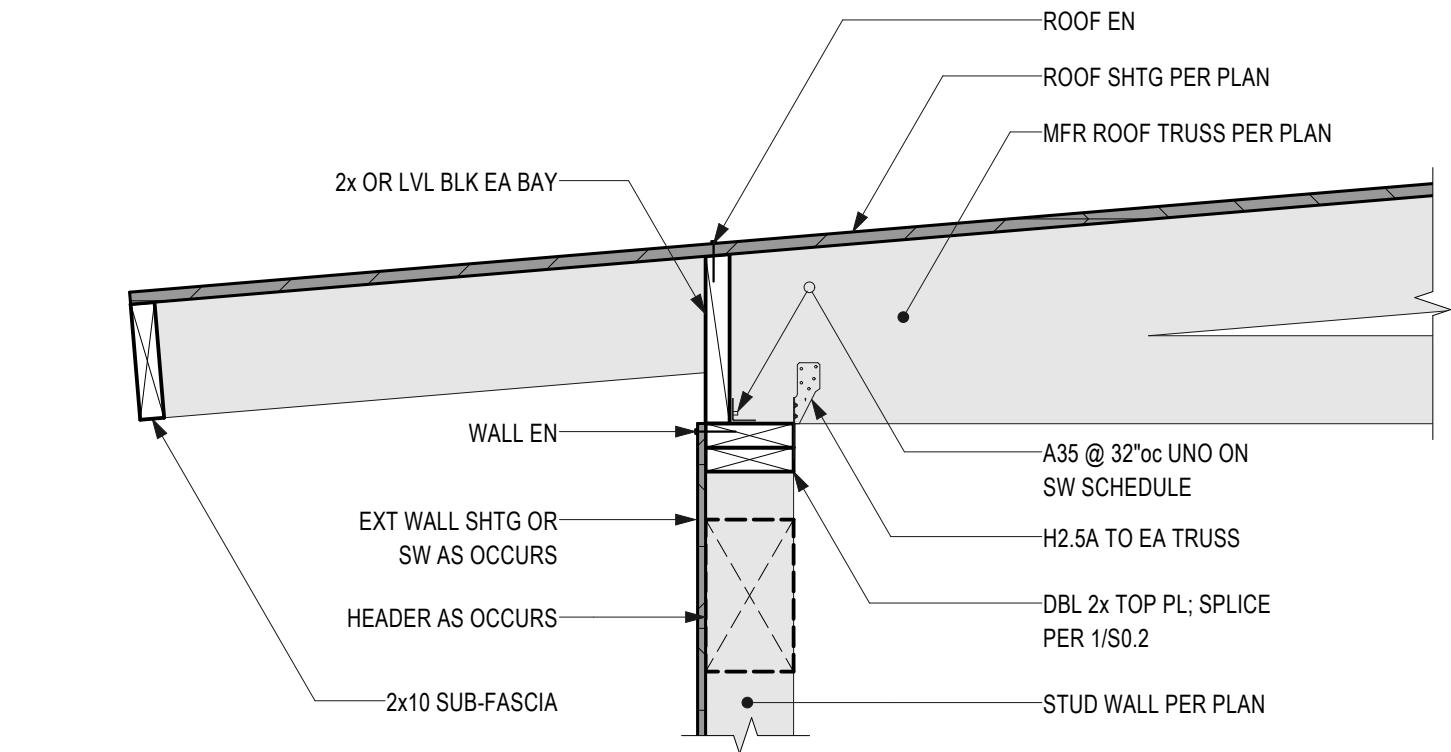
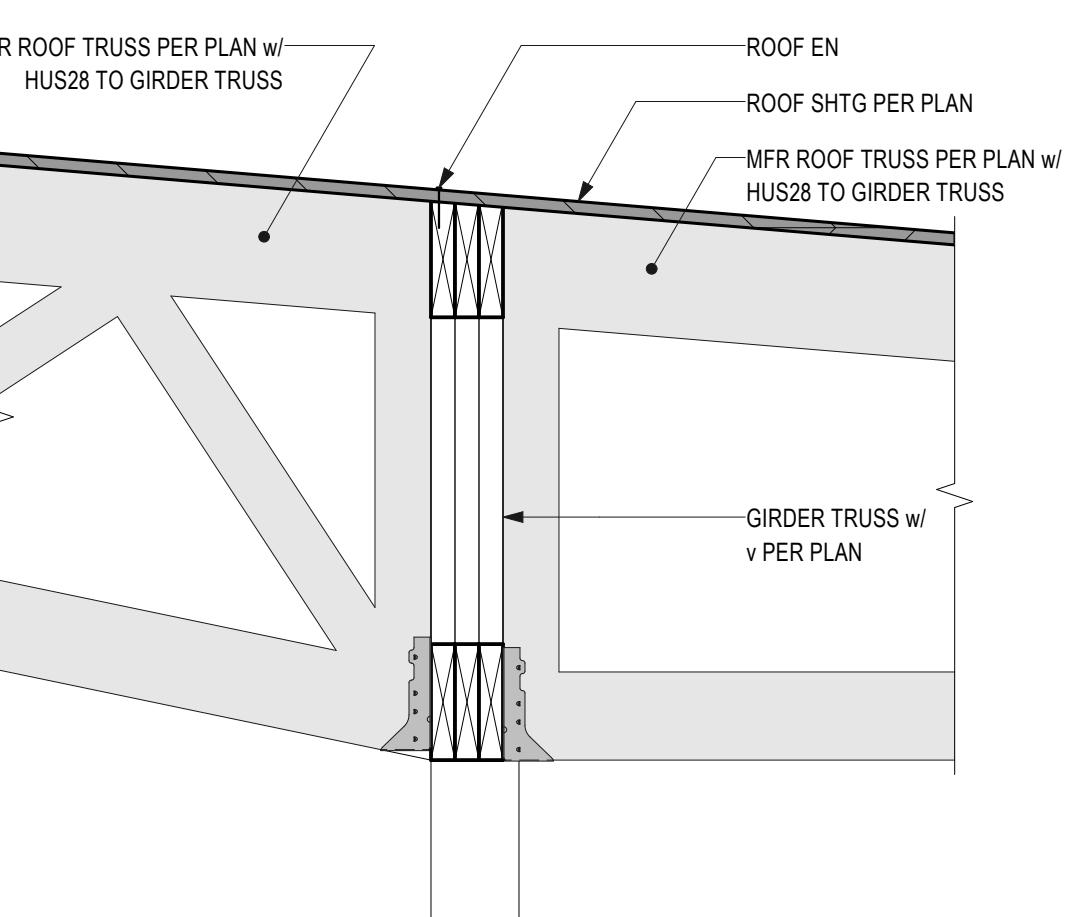
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Wilson WY 83014

DATE: 3/9/2023
PROJECT #: 22-011
DRAWN: JAH

ISSUE:
Building Permit Set 3.9.23

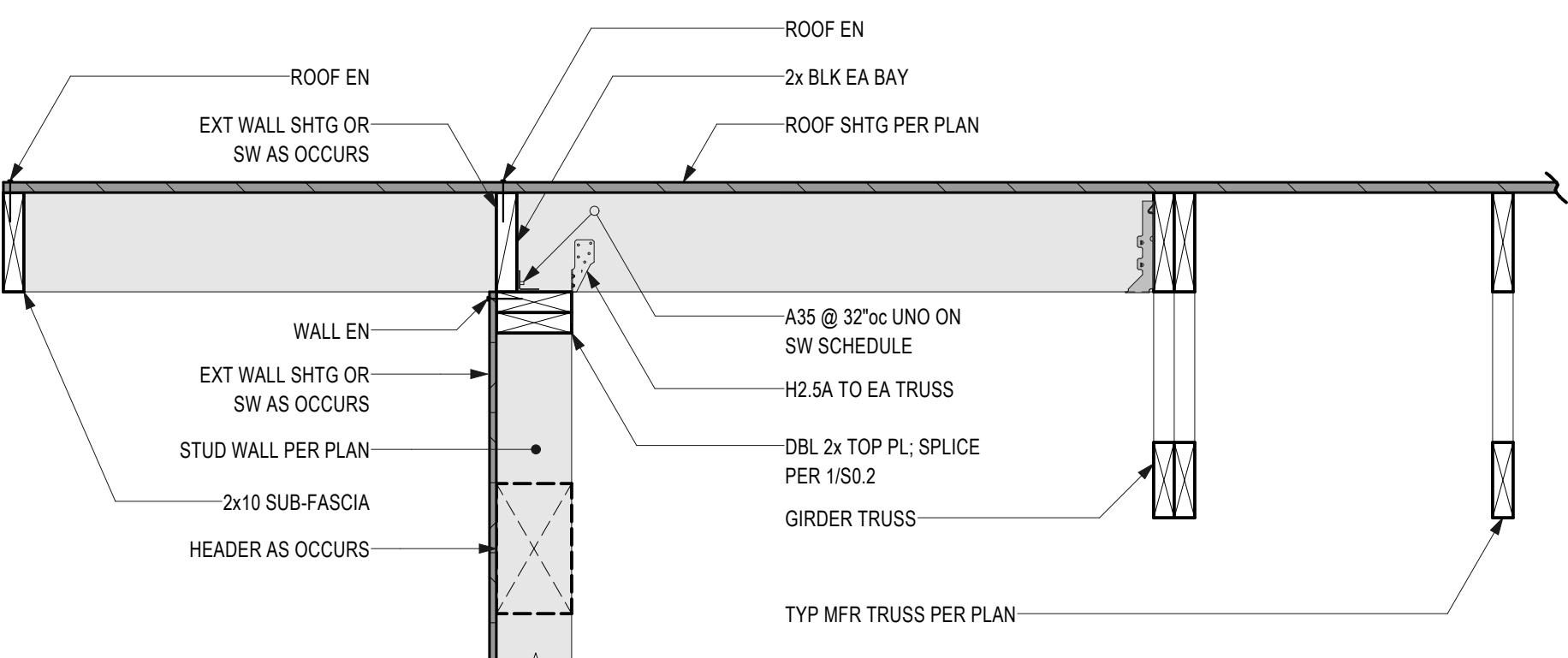
S5.4
Framing Details

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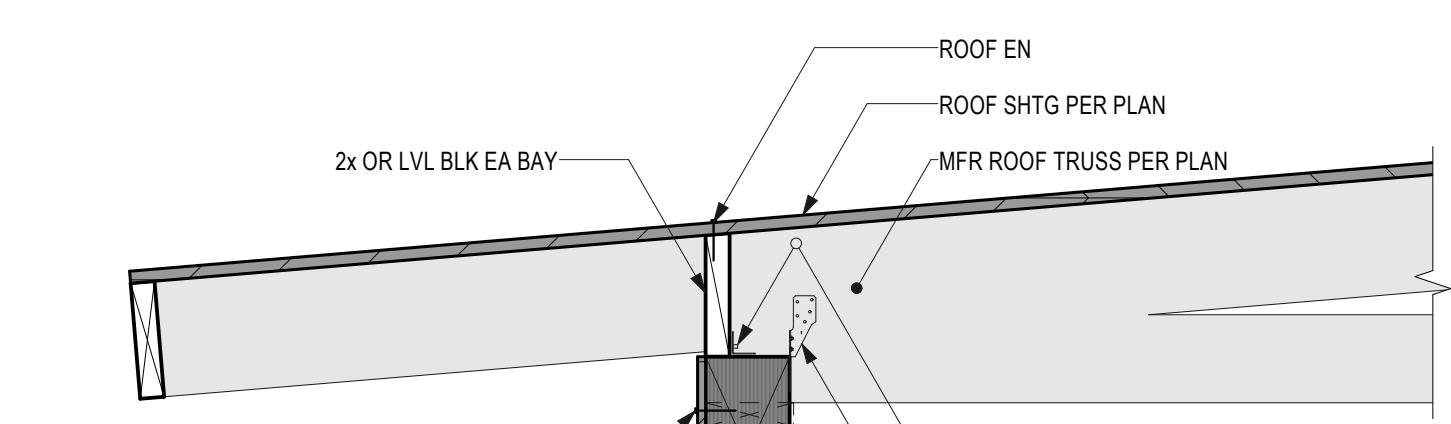


1 S-301 Framing Detail
SCALE: 1" = 1'-0"

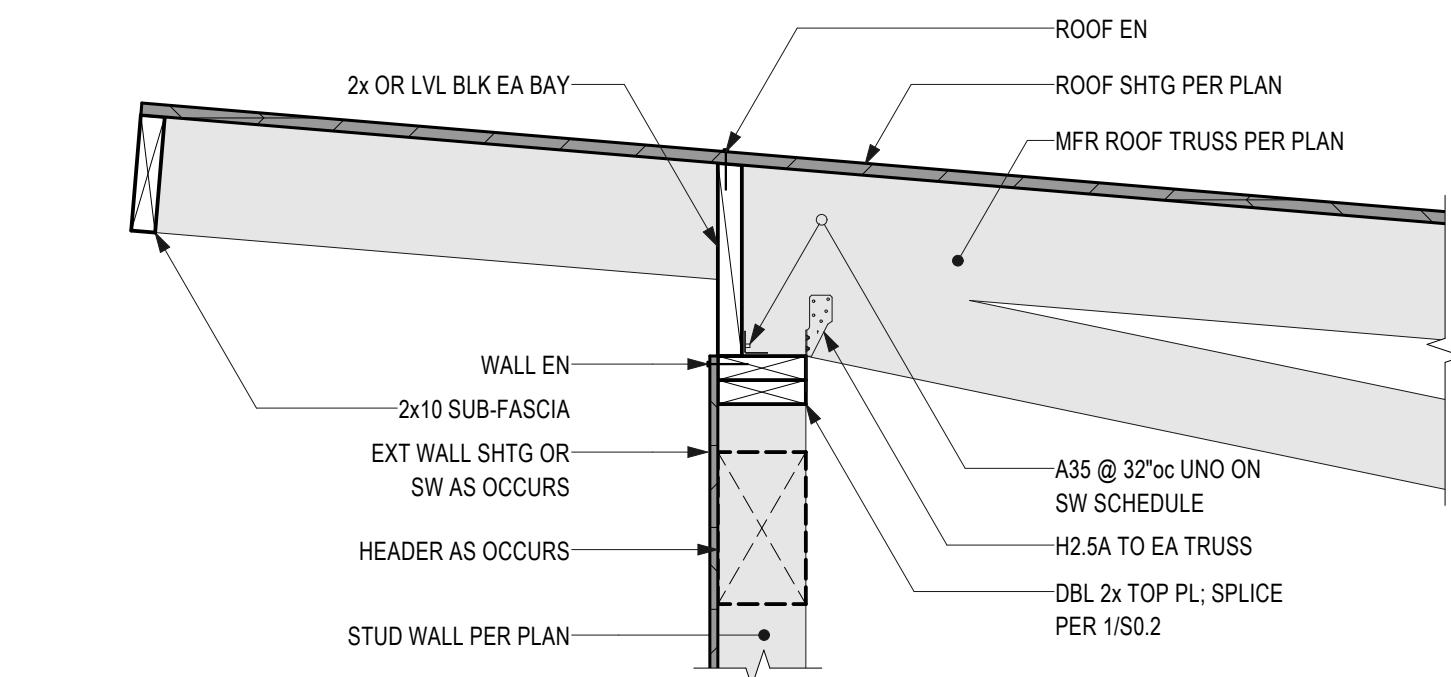
5 S-305 Framing Detail
SCALE: 1" = 1'-0"



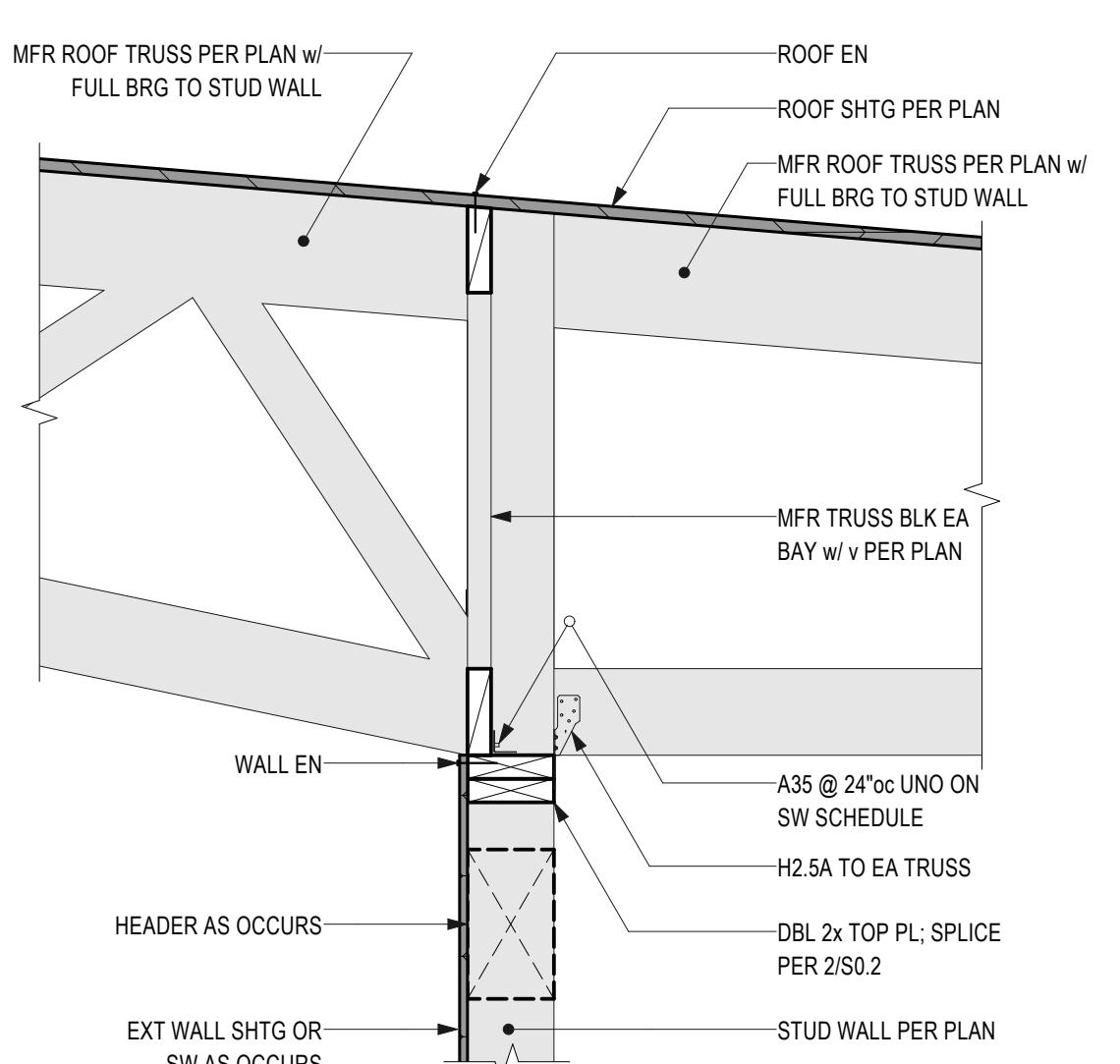
6 S-306 Framing Detail
SCALE: 1" = 1'-0"



2 S-302 Framing Detail
SCALE: 1" = 1'-0"



3 S-303 Framing Detail
SCALE: 1" = 1'-0"



4 S-304 Framing Detail
SCALE: 1" = 1'-0"