



Bountiful City
Administrative Committee Agenda
Monday, October 27, 2025
3:00 p.m.

Notice is hereby given that the Bountiful City Administrative Committee will hold a meeting in the Planning Department Conference Room, Bountiful City Hall, located at 795 South Main Street, Bountiful, Utah, 84010, on the date and time provided. The public is invited to attend.

1. Welcome
2. Conditional Use Permit for a Detached Accessory Dwelling Unit at 685 East 1825 South
Planning Technician Coleman
 - Review
 - Public Hearing
 - Action
3. Conditional Use Permit for a Cell Tower Upgrade at 120 West 1000 North
Planning Technician Coleman
 - Review
 - Public Hearing
 - Action
4. Adjourn

Administrative Committee Staff Report



Subject: Conditional Use Permit for a Detached Accessory Dwelling Unit at 685 East 1825 South
Authors: Rachel Coleman, Planning Technician
Date: October 27, 2025

Background

The applicant, Dan Guertler submitted a Conditional Use Permit (CUP) application for a Detached Accessory Dwelling Unit (DADU) located at **685 East 1825 South**. The site is located in the Single-Family Residential (R-3) subzone. The Bountiful City Administrative Committee reviews CUP applications for detached ADUs. The Bountiful City Land Use Code defines an ADU as “*A self-contained dwelling unit within an owner-occupied single-family residence or in a detached accessory structure located on an owner-occupied property. See Section 14-14-124.*”

Analysis

Section I - ADU Compliance. Staff reviewed the submitted application and finds that the proposed detached ADU complies with Land Use Code § 14-14-124(C) (below in italics). Staff findings for each standard are shown as underlined text.

1. *Shall be a conditional use only within the Single-Family Residential zone, Residential Multiple (RM) Family Zone, and the Downtown (DN) Mixed Use Zone; and shall not be permitted in any other zone.*

The single-family dwelling is located within the Single-Family Residential (R-3) subzone.

2. *It is unlawful to allow, construct, or reside in an accessory dwelling unit within a duplex or multi-family residential building or property.*

The site currently contains a single-family dwelling and the proposed ADU is in an accessory structure.

3. *It is unlawful to reside in, or allow to reside in, an accessory dwelling unit that has not received a conditional use permit or without written authorization from the Bountiful City Planning Department.*

The applicant has submitted a CUP application for this detached ADU in order to be authorized to apply for a building permit to construct the proposed ADU.

4. *A maximum of one (1) accessory dwelling unit shall be permitted on a qualifying lot.*

The applicant has submitted a CUP application for this one (1) detached ADU.

5. *It is unlawful to construct, locate, or otherwise situate an accessory dwelling unit on a lot or parcel of land that does not contain a habitable single-family dwelling.*

The site contains an existing single-family dwelling.

6. *A deed restriction limiting the use of a property to a single-family dwelling, prepared by the Bountiful City Planning Director, and signed by all owners of the property on which an accessory dwelling unit is located, shall be recorded with the Davis County Recorder's Office prior to occupancy of the accessory dwelling unit. If a building permit is required, then said deed restriction shall be recorded prior to issuance of the building permit.*

The Planning Director will prepare a deed restriction once the Administrative Committee approves this request, and all applicable conditions of approval are met. According to online records of the Davis County Assessor's Office, the subject property, parcel no. 050450024, is owned by Daniel Guertler.

7. *The property owner must occupy either the principal unit or the accessory dwelling unit as their permanent residence and at no time receive rent for the owner-occupied unit. An application for an accessory dwelling unit shall include proof of owner occupancy as evidenced by voter registration, vehicle registration, driver's license, county assessor records or other similar means required by the Planning Department.*

The deed restriction will indicate that the property owner must either occupy the principal unit or the ADU as their permanent residence. The applicant is aware of the owner occupancy requirement.

8. *Separate utility meters shall not be permitted for the accessory dwelling unit.*

The deed restriction will indicate such.

9. *It is unlawful to construct an accessory dwelling unit, or to modify a structure to include an accessory dwelling unit, without a building permit, if applicable.*

Once the CUP is approved, the applicant will provide occupancy once the work is completed.

10. *Adequate off-street parking shall be provided for both the primary residential use and the accessory dwelling unit, and any driveway and parking area shall be in compliance with this Title. In addition to the parking required for the principal unit at the time of construction, one (1) off-street parking space shall be provided for an accessory dwelling unit. Any additional occupant vehicles shall be parked off street in City Code compliant parking areas. On-street parking may be utilized in compliance with the current parking limitations outlined in the Bountiful Traffic Code regarding on-street parking.*

According to Davis County Assessor's Office online records the existing single-family dwelling was built in 1960. According to Bountiful City Land Use Code the lot containing the primary dwelling was annexed into Bountiful City sometime between 1955-1965. By 1965, the property was located in the Single-Family Residential (R-1) subzone, which required one (1) off-street parking space for the primary dwelling. The current proposal requires a total of two (2) off-street parking spaces: one (1) for the primary residence and one (1) for the detached ADU. The site plan demonstrates that there is sufficient off-street parking to accommodate both the primary dwelling and the proposed ADU (See Attachment 1, Site Plan).

- 11. Shall be at least three hundred fifty (350) square feet in size and shall not exceed one thousand two hundred fifty (1,250) square feet.*

The proposed ADU is 1248 square feet (See Attachment 3, Floor Plan).

- 12. Shall not be located on a lot with less than eight thousand (8,000) square feet buildable land.*

According to Davis County Assessor's Office online records the lot area is 0.305 acres which equates to 13,286 square feet.

- 13. Shall be configured so that any exterior doors, stairs, windows, or similar features are located as far away from adjoining properties as is reasonably possible to provide privacy to those properties.*

Based on the ADU's location, including the placement of windows and doors in relation to surrounding properties, staff does not anticipate any privacy concerns. The north and east elevations are closest to the adjoining property. These elevations do not include any doorways, and all windows on both the main and upper levels will be screened and limited to a maximum size of four (4) feet in height and four (4) feet in width (See Attachment 3, Floor Plan and Attachment 4, Elevations).

- 14. Shall meet all the setbacks required of an accessory structure.*

See item (b) below, under Standard Height and Setbacks, of Section 14-4-105(J)(2)

- 15. Shall be located behind the front building line of the principal unit.*

The proposed ADU is approximately thirty-six (36) feet behind the front building line of the principal unit (See Attachment 1, Site Plan).

- 16. The separate entrance of the accessory dwelling unit may be visible from the front or corner lot side yard based on proximity and appropriate mitigation.*

The entrance of the proposed detached ADU is located completely behind the existing single-family dwelling and is approx. fifty-six (56) feet from the front property line.

Section II - Accessory Structure Conditional Use Compliance. Staff reviewed the submitted application and finds that the proposed accessory structure complies with Bountiful City Land Use Code Section 14-4-105(J)(2) (below in italics). Staff findings for each standard are shown as underlined text.

- a. *The total footprint of any and all accessory structures shall not exceed fifteen percent (15%) of the entire lot or parcel area, and no lot or parcel shall be reduced in area after the construction of an accessory building, such that it is in violation of this provision.*

The lot is 13,286 square feet. Fifteen (15%) of the lot is 2,391 square feet. The proposed ADU is approximately 1,250 square feet. Complies.

- b. *An accessory dwelling unit may comply with the following **Standard Height and Setbacks:***

<u>Height</u>	<u>Maximum</u>	<u>Proposed</u>
Maximum Height	20 feet	Approximately 17'6", complies
Sidewall Height	15 feet	All Elevations, Rear, Front, Right, and Left, are 14'10", complies

The proposed ADU meets the Reduced Setback requirements, which states that the ADU must be at least 10 feet behind the front building line of the primary structure. It will be approximately thirty-six (36) feet behind the front building line. The Reduced Setback standards are:

<u>Setback</u>	<u>Minimum</u>	<u>Proposed</u>
Side - Left	3 feet	84 feet (approx.), complies
Side - Right	3 feet	5 feet, complies
Rear	3 feet	5 feet, complies

- c. *An accessory structure shall be located at least five (5) feet from a primary structure, including eaves, bay windows, chimneys and any other protrusion on either the accessory building or the primary structure.*

The accessory structure is located six feet two inches (6'2") from the primary structure (See Attachment 1, Site Plan).

- d. *No part of an accessory structure, excluding the eaves, shall be closer than twelve (12) feet to any primary dwelling on an adjacent property.*

Based on aerial photography the existing accessory structure complies with this standard.

- e. *The eaves of an accessory structure shall be setback at least one (1) foot from any property line.*

The site and elevation plans show a five (5) foot setback with twelve (12) inch eaves, resulting in at least a four (4) foot eave setback from the rear and right, side yard property line, meeting code requirements (See Attachment 4, Elevations).

- f. *An accessory structure shall be designed and constructed so as to prevent roof runoff from impacting an adjacent property.*

Based on the distance from all property lines the ADU will not impact roof runoff onto adjacent properties.

- g. *An accessory structure shall meet all applicable provisions of the International Building Code.*

The proposed ADU shall comply with all applicable building codes.

- h. *An accessory structure shall not encroach on any easements, recorded or otherwise.*

The proposed structure does not encroach on any easements (see Attachment 1, Site Plan)

- i. *Accessory structures used or designed for vehicle parking shall be connected to the street by a paved driveway.*

Not applicable

Section III - CUP Mitigation. Staff reviewed the submitted application and finds that the proposed detached ADU is mitigated, as conditioned, based on Land Use Code § 14-2-506(C) (below in italics). Staff findings for mitigation are shown as underlined text.

- A. *A conditional use permit shall be approved if reasonable conditions are proposed, or can be imposed, to mitigate the reasonably anticipated detrimental effects of the proposed use in accordance with the applicable standards.*
- B. *If the reasonably anticipated detrimental effects of a proposed conditional use cannot be substantially mitigated by the proposal, or if the imposition of reasonable conditions to achieve compliance with applicable standards is not possible, the conditional use permit request may be denied.*
- C. *Standards applicable to conditional uses include all the requirements of this Title, and consideration of the following:*

1. *The location of the proposed use in relationship to other existing uses in the general vicinity.*
2. *The effects of the proposed use and/or accompanying improvements on existing developments in the general vicinity;*
3. *The appropriate buffering of uses and buildings, proper parking and traffic circulation, and the use of building materials and landscaping which are in harmony with the area.*

The color of the proposed ADU will be tan, matching the current color of the primary dwelling, and the material being used for the siding is Hardieplank Fiber Cement Lap Siding (see Attachment 5, Permit Plans).

Accessibility

Proposed walkway (see Attachment 1, Site Plan).

Department Review

This staff report was written by the Planning Technician and reviewed by the Senior Planner.

Significant Impacts

None.

Recommendation

Staff recommends that the Administrative Committee review the request, hold a public hearing, and approve the Conditional Use Permit allowing a detached accessory dwelling unit at **685 East 1825 South**, subject to the following conditions of approval:

1. The accessory dwelling unit shall meet all the standards in Section 14-14-124 of the City Land Use Code including, but not limited to, the following:
 - a. The owner(s) of the property shall continually occupy the principal dwelling or the accessory dwelling unit.
 - b. The property is to be used only as a single-family dwelling with a detached accessory dwelling unit and shall be subject to a deed restriction.
 - c. There shall be no separate utility service connections.
2. Complete and record the ADU deed restriction prior to applying for a building permit.
3. The Applicant shall apply separately for a building permit to be reviewed and inspected by Staff.

Attachments

1. Site Plan
- 2-3. Floor Plan
4. Elevations
- 5-15. Permit Plans

685 East 1825 South



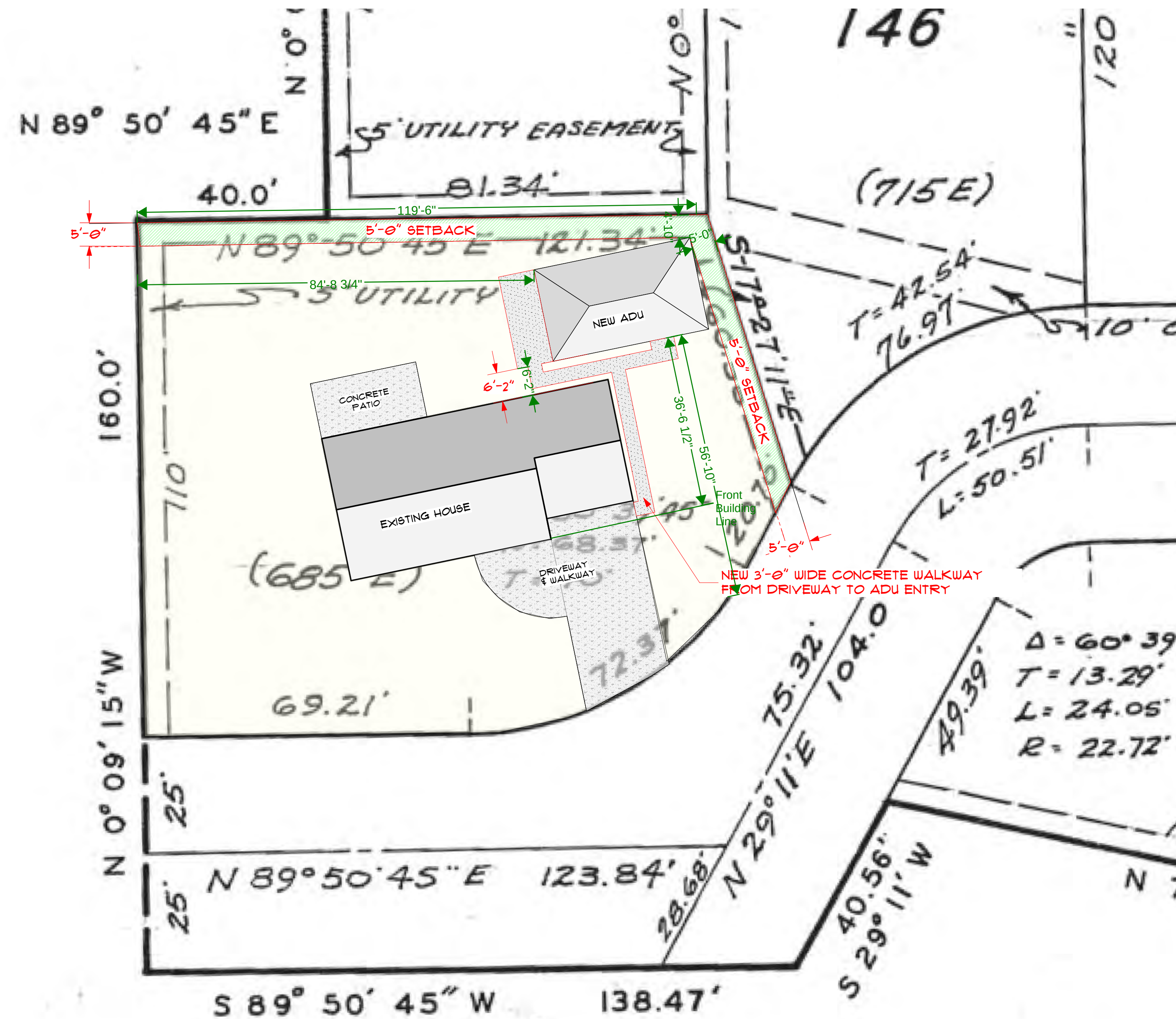
Rachel Coleman, Planning Technician
10/02/2025 5:35:30 PM

LOT COVERAGE AREA CALCULATION

LOT SIZE .305 ACRES = 13,286 SF
AREA OF BUILDINGS= 2,533 SF
AREA OF IMPERMEABLE PAVING = 1,241 SF

TOTAL IMPERMEABLE AREA = 3,114 SF

PERCENTAGE OF IMPERMEABLE AREA
3,744 SF / 13,286 SF = 28.18%



2 SITE PLAN
SCALE: 1/16" = 1'-0"

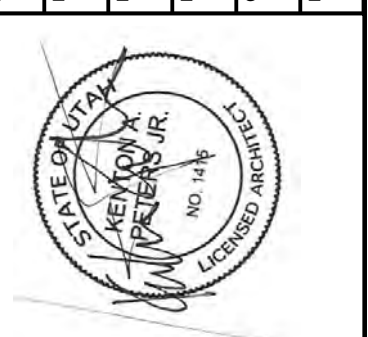
DRAWING INDEX	
A-001	COVER SHEET & LOT PLAN
A-004	PROJECT REQUIREMENTS
A-101	FLOOR PLANS & SCHEDULES
A-201	EXTERIOR ELEVATIONS
A-301	BUILDING SECTIONS & WALL SECTION
E-101	ELECTRICAL PLANS
S1.1	STRUCTURAL NOTES & DETAILS
S1.2	STRUCTURAL DETAILS
S1.3	STRUCTURAL DETAILS
S2.1	STRUCTURAL PLAN & NOTES
S2.2	STRUCTURAL PLAN & NOTES
S3.1	STRUCTURAL DETAILS
S4.1	STRUCTURAL DETAILS
S4.2	STRUCTURAL DETAILS
S4.3	STRUCTURAL DETAILS



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GEURTLER ADU
685 E. 1825 S.
BOUNTIFUL, UTAH

Revision	
Project ID	
Drawing Code	
CAD File Name	Guerler ADU.vwx
Plot Date	



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Geurtler ADU

Cover Sheet, & Lot Plan

Jul 24, 2025

Sheet No. _____

A-001

— of —

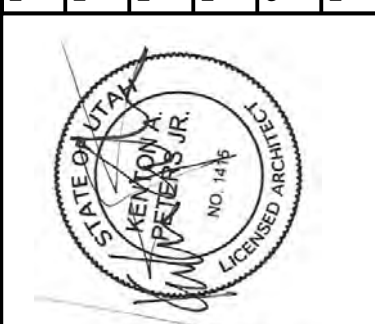
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GEURTLER ADU
685 E. 1825 S.
BOUNTIFUL, UTAH

Date	Revision	Project ID	Drawing Code	CAD File Name	Plot Date
				Geurtler ADU vwx	



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Geurtler ADU	Project Requirements
Scale	Sheet Title
Jul 24, 2025	
Sheet No.	

A-002

of

10



GENERAL CONDITIONS OF THE PROJECT

1. OWNERSHIP AND USE OF DRAWINGS, SPECIFICATIONS AND OTHER INSTRUMENTS OF SERVICE

1.1. The Drawings, Specifications and other documents prepared by the Architect and the Architect's consultants are Instruments of Service through which the Work to be executed by the Contractor is described. The Architect and the Architect's consultants shall be deemed the authors of the Drawings, Specifications and other documents and will retain all common law, statutory and other reserved rights, in addition to the copyrights. They are not to be used by the Contractor or any Subcontractor or material or equipment supplier on other projects or for additions to this Project outside the scope of the Work without the specific written consent of the Owner, Architect and the Architect's consultants.

2. INFORMATION AND SERVICES REQUIRED OF THE OWNER

2.1. The Owner shall, upon request, furnish to the Contractor information necessary and relevant for the Contractor to evaluate, give notice of or enforce mechanic's lien rights. Such information shall include a correct statement of the record legal title to the property on which the Project is located and the Owner's interest therein.
2.2. The Owner shall, upon request, and prior to commencement of the Work and thereafter, furnish to the Contractor reasonable evidence that financial arrangements have been made to fulfill the Owner's obligations under the Contract. After such evidence has been furnished, the Owner shall not materially vary such financial arrangements without prior notice to the Contractor.
2.3. The Owner shall furnish surveys describing physical characteristics, legal limitations and utility locations for the site of the Project, and a legal description of the site. The Contractor shall be entitled to rely on the accuracy of information furnished by the Owner but shall exercise proper precautions relating to the safe performance of the Work.

3. OWNER'S RIGHT TO STOP THE WORK

3.1. If the Contractor fails to correct Work which is not in accordance with the requirements of the Contract Documents or persistently fails to carry out Work in accordance with the Contract Documents, the Owner may issue a written order to the Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated;
3.2. If the Contractor defaults or neglects to carry out the Work in accordance with the Contract Documents and fails within a seven-day period after receipt of a written notice from the Owner to commence and continue correction of such default or neglect with diligence and promptness, the Owner may, without prejudice to other remedies the Owner may have, correct such deficiencies. In such case an appropriate Change Order shall be issued deducting from payments then or thereafter due the Contractor the reasonable cost of correcting such deficiencies, including Owner's expenses and compensation for the Architect's additional services made necessary by such default, neglect or failure. Such action by the Owner and amounts charged to the Contractor are both subject to prior approval of the Architect. If payments then or thereafter due the Contractor are not sufficient to cover such amounts, the Contractor shall pay the difference to the Owner.

4. REVIEW OF CONTRACT DOCUMENTS AND FIELD CONDITIONS BY CONTRACTOR

4.1. Since the Contract Documents are complementary, before starting each portion of the Work, the Contractor shall carefully study and compare the various Drawings and other Contract Documents relative to that portion of the Work, shall take field measurements of any existing conditions related to that portion of the Work and shall observe any conditions at the site affecting it. Any design errors or omissions noted by the Contractor during this review shall be reported promptly to the Architect, but it is recognized that the Contractor's review is made in the Contractor's capacity as a contract and not as a licensed design professional. The Contractor is not required to ascertain that the Contract Documents are in accordance with applicable laws, statutes, ordinances, building codes, and rules and regulations, but any nonconformity discovered by or made known to the Contractor shall be reported promptly to the Architect.
4.2. If the Contractor performs Work knowing it to be contrary to laws, statutes, ordinances, building codes, and rules and regulation without such notice to the Architect and Owner, the Contractor shall assume appropriate responsibility for such Work and shall bear the costs attributable to correction.

5. LABOR AND MATERIALS

5.1. Unless otherwise provided in the Contract Documents, the Contractor shall provide and pay for labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for proper execution and completion of the Work.
5.2. The Contractor may make substitutions only with the consent of the Owner, after evaluation by the Architect and in accordance with a Change Order.
5.3. The Contractor warrants to the Owner and Architect that materials and equipment furnished under the Contract will be of good quality and new unless otherwise required or permitted by the Contract Documents, that the Work will be free from defects not inherent in the quality required or permitted, and that the Work will conform to the requirements of the Contract Documents. Work not conforming to these requirements, including substitutions not properly approved and authorized, may be considered defective. The Contractor's warranty excludes remedy for damage or defect caused by abuse, modifications not executed by the Contractor, improper or insufficient maintenance, improper operation, or normal wear and tear and normal usage. If required by the Architect, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment.

5.4. PERMITS, FEES AND NOTICES

5.4.1. Unless otherwise provided in the Contract Documents, the Contractor shall secure and pay for the building permit and other permits and governmental fees, licenses and inspections necessary for proper execution and completion of the Work which are customarily secured after execution of the Contract and which are legally required when bids are received or negotiations are concluded.

6. SHOP DRAWINGS, PRODUCT DATA AND SUBMITTALS

6.1. Shop Drawings, Product Data, Samples and similar submittals are not Contract Documents. The purpose of their submittal is to demonstrate for those portions of the Work for which submittals are required by the Contract Documents the way by which the Contractor proposes to conform to the information given and the design concept expressed in the Contract Documents.
6.2. The Architect will review and approve or take other appropriate action upon the Contractor's submittals such as Shop Drawings, Product Data, Samples, but only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. Review of such submittals is not conducted for the purpose of determining the accuracy and completeness of other details such as dimensions and quantities, or for substantiating instructions for installation or performance of equipment or systems, all of which remain the responsibility of the Contractor as required by the Contract Documents. The Architect's review shall not constitute approval of safety precautions or of any construction means, methods, techniques, sequences or procedures. The Architect's approval of a specific item shall not indicate approval of an assembly of which the item is a component.
6.3. By approving and submitting Shop Drawings, Product Data, Samples and similar submittals, the Contractor represents that the Contractor has determined and verified materials, field measurements and field construction criteria related thereto, or will do so, and has checked and coordinated the information contained within such submittals with the requirements of the Work and of the Contract Documents.
6.4. The Contractor shall perform no portion of the Work for which the Contract Documents require submittal and review of Shop Drawings, Product Data, Samples or similar submittals until the respective submittal has been approved by the Architect.

7. CHANGES IN THE WORK

7.1. Changes in the Work may be accomplished after execution of the Contract, and without invalidating the Contract, by Change Order or order for a minor change in the Work.
7.2. A Change Order shall be based upon agreement among the Owner, Contractor and Architect; an order for a minor change in the Work may be issued by the Architects alone.
7.3. A Change Order is a written instrument prepared by the Architect and signed by the Owner, Contractor and Architect, stating their agreement upon all of the following:
7.3.1.1. Change in the Work
7.3.1.2. The amount of the adjustment, if any, in the Contract Sum
7.3.1.3. The extent of the adjustment, if any, in the Contract Time
7.4. The Architect will have authority to order minor changes in the Work not involving adjustment in the Contract Sum or extension of the Contract Time and not inconsistent with the intent of the Contract Documents. Such changes shall be effected by written order and shall be binding on the Owner and Contractor. The Contractor shall carry out such written orders promptly.

8. INSURANCE

8.1. Contractor's Liability Insurance
8.1.1. The Contractor shall purchase from and maintain in a company or companies lawfully authorized to do business in the jurisdiction in which the Project is located, such insurance as will protect the Contractor from claims set forth which may arise out of or result from the Contractor's operations under the Contract and for which the Contractor may be legally liable, whether such operations be by the Contractor or by a Subcontractor or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable.
8.1.2. The insurance required shall be written for not less than limits required by law. Coverage, whether written on an occurrence or claims-made basis, shall be maintained without interruption from date of commencement of the Work until date of final payment and termination of any coverage required to be maintained after final payment.
8.2. Owner's Liability Insurance and Property Insurance
8.2.1. The Owner shall be responsible for purchasing and maintaining the Owner's usual liability insurance
8.2.2. Unless otherwise provided, the Owner shall purchase and maintain, maintain in a company or companies lawfully authorized to do business in the jurisdiction in which the Project is located, property insurance written on a builder's risk "all-risk" or equivalent policy form in the amount of the initial Contract Sum, plus value of subsequent Contract modifications and cost of materials supplied or installed by others, comprising total value for the entire Project at the site on a replacement cost basis without optional deductibles. Such property insurance shall be maintained until final payment has been made or until no person or entity other than the Owner has in insurable interest in the property, whichever is later.

9. CORRECTION OF WORK

9.1. Before or After Substantial Completion
9.1.1. The Contractor shall promptly correct Work rejected by the Architect or failing to conform to the requirements of the Contract Documents, whether discovered before or after Substantial Completion and whether or not fabricated, installed or completed. Cost of correcting such rejected Work, including additional testing and inspections and compensation for the Architect's services and expenses made necessary thereby, shall be at the Contractor's expense.
9.2. After Substantial Completion
9.2.1. If, within one year after the date of Substantial Completion of the Work, any of the Work is found to be not in accordance with the requirements of the Contract Documents, the Contractor shall correct it promptly after receipt of written notice from the Owner to do so unless the Owner has previously given the Contractor a written acceptance of such condition. The Owner shall give such notice promptly after discovery of the condition. During the one-year period for correction of Work, if the Owner fails to notify the Contractor and give the Contractor an opportunity to make the correction, the Owner waives the rights to require correction by the Contractor and to make a claim for breach of warranty.
9.3. Acceptance of Nonconforming Work
9.3.1. If the Owner prefers to accept Work which is not in accordance with the requirements of the Contract Documents, the Owner may do so instead of requiring its removal and correction, in which case the Contract Sum will be reduced as appropriate and equitable. Such adjustment shall be effected whether or not final payment has been made.

SUPPLEMENTAL CONDITIONS OF THE PROJECT

1. GENERAL

1.1. All Articles in these General and Supplemental Conditions are applicable to all Divisions and Sections of the work included herein, and all contractors must abide by the requirements set forth. These Conditions shall apply with equal force and effect to all contractors engaged in this work.
1.2. Each contractor, subcontractor or material supplier shall inform himself as to conditions relating to execution of work of his Division or Section. Neglect of this requirement will not be accepted as cause for additional compensation.

2. LAYOUT

2.1. The General Contractor shall, immediately upon entering the site for purpose of beginning work, locate general reference points and take such action as is necessary to prevent their destruction. He shall lay out his own work and be responsible for all lines, elevations and measurements of the building, utilities and other work executed by him under the Contract. He must exercise proper precaution to verify figures on Drawings before laying out work and will be held responsible for any error resulting from his failure to exercise such precaution.
2.2. Use a known point or elevation on existing site grade as datum elevation. This point or elevation is shown on the Site Plan drawing. Other grades, lines, levels and bench marks shall be established and maintained by the General Contractor, who shall be responsible for them.
2.3. As work progresses, the General Contractor shall lay out on forms and floor exact locations of all partitions as a guide to all trades, fix column center lines and walls.
2.4. Each contractor shall verify grades, lines, levels, locations, and dimensions as shown on Drawings and report any errors or inconsistencies to Architect before commencing work. Starting of work by the contractor shall imply his acceptance.

3. SUPERVISION

3.1. The General Contractor shall take complete charge of the work under his contract. As a part of his contract he shall coordinate the work of all trades and all phases of general, structural, plumbing, heating ventilating and air-conditioning, electrical and other work. The General Contractor shall establish all lines, layout and levels for use by all trades on the project.

4. COORDINATION

4.1. Subcontractors for plumbing, heating and ventilating, and electrical work shall check and cross-check drawings and specifications of other trades to inform themselves of the work interrelated to their own.
4.2. It is the responsibility of all contractors to coordinate their work with others so as to avoid delay.
4.3. Contractors shall determine as far in advance as possible the exact size of openings and guarantee them to the General Contractor.

5. TEMPORARY TOILETS

5.1. If no toilets are available in the existing building contractor shall provide on the job site a portable toilet available to all contractors and subcontractors workers. This toilet shall be maintained at required intervals so as to be clean, odor-free and of adequate capacity for its usage.

6. THIS SECTION NOT USED

7. TEMPORARY WATER SUPPLY

7.1. Contractor shall supply water as required for the project.

8. TEMPORARY ELECTRICAL WORK

8.1. Contractor shall supply electrical power as required for project.

9. TEMPORARY FIRE PROTECTION

9.1. The General Contractor shall provide and maintain in working order during the entire construction period a minimum of two fire extinguishers on the floor level on which they are working. Such other fire protective equipment and devices as he deems necessary and suitable for any possible class or type of fire shall also be provided. They shall be non-freeze types, such as A-B-C rated dry chemical extinguishers of not less than 10-pound capacity each.

10. STORAGE OF MATERIALS

10.1. All contractors shall confine their equipment, apparatus, storage of materials and operations to limits indicated by the directions of Architect and none shall bring material onto the site until it is needed for the progress of the work.
10.2. The Owner assumes no responsibility for materials stored in building or on the site. The contractor assumes full responsibility for damage due to storing of materials.

11. PROTECTION IN GENERAL

11.1. Work shall comply with the standards set by the Occupational Safety and Health Administration (OSHA) of the United States.
11.2. Precaution shall be exercised at all times for the protection of persons (including employees) and property. The safety provisions of all applicable laws, building and construction codes shall be observed.
11.3. The General Contractor and all Subcontractors shall:
11.3.1. Provide, erect and maintain all required planking, barricades, guard rails, temporary walkways, etc., of sufficient size and strength necessary for protection of material storage, sidewalks, curbs, streets, drives, adjoining property and the building as well as to prevent accidents to the public and the workmen at the job site.
11.3.2. All materials, persons, vehicles and equipment shall remain on graded surfaces only. Contractor shall provide protection for existing landscape including trees, shrubs, boulders, etc. Damaged landscape shall be repaired or replaced. Repair and replacement work shall be accomplished by the General Contractor and paid for by the contractor responsible for the damage. If responsibility cannot be fixed the cost of repair or replacement shall be prorated among contractors on the project.
11.3.3. Provide protection against rain, snow, wind, ice, storms or heat so as to maintain all work, materials, apparatus, and fixtures incorporated in the work or stored on the site free from injury or damage. At the end of the day's work cover all new work likely to be damaged. Remove snow and ice as necessary for safety and proper execution of the work.
11.3.4. Protect the building from damage at all times from rain, water, ground water, backup from drains or sewers, and all other water. Provide all equipment and enclosures necessary to provide this protection.
11.3.5. General Contractor shall provide, erect and maintain all temporary enclosures required to make the existing building weather tight where openings have been exposed due to work under this Contract.

12. PROTECTION OF FINISHED CONSTRUCTION

12.1. Each contractor shall assume the responsibility for the protection of all finished construction under his contract and shall repair and restore any and all damage of finished work to its original state.
12.2. Where responsibility can be fixed, the cost shall be charged to the party responsible. If responsibility cannot be fixed, the cost shall be prorated among all contractors in proportion to their activities at the building at the time the damage was done.
12.3. No wheeling of any loads over finished floors, either with or without plank protection will be permitted in anything except rubber-tired wheelbarrows, buggies, trucks or dollies. This applies to all finished floors and to all exposed concrete floors as well as those covered with composition tile or other applied surfacing, and shall apply to all contractors and subcontractors.
12.4. Where structural concrete is also the finished surface care must be taken to avoid marking or damaging those surfaces.

13. COLD WEATHER PROTECTION

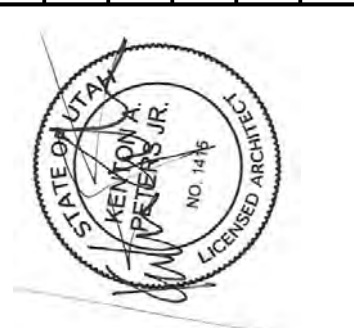
13.1. All heating and covering required to protect the work from injury due to freezing or moisture during the construction period shall be classed as COLD WEATHER PROTECTION. Such protection shall be provided by each prime contractor for the protection of his own work.
13.2. All heating units must be approved type. Proper ventilation must be provided. The use of temporary units which may damage materials will not be allowed.
13.3. Equipment used for heat as well as the entire surrounding area shall be kept in a clean and safe condition.



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GEURTLE ADU
685 E. 1825 S.
BOUNTIFUL, UTAH

Date	Revision	Project ID	Drawing Code	CAD File Name	Project Name
				Geurtler ADU vwx	



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Geurtler ADU

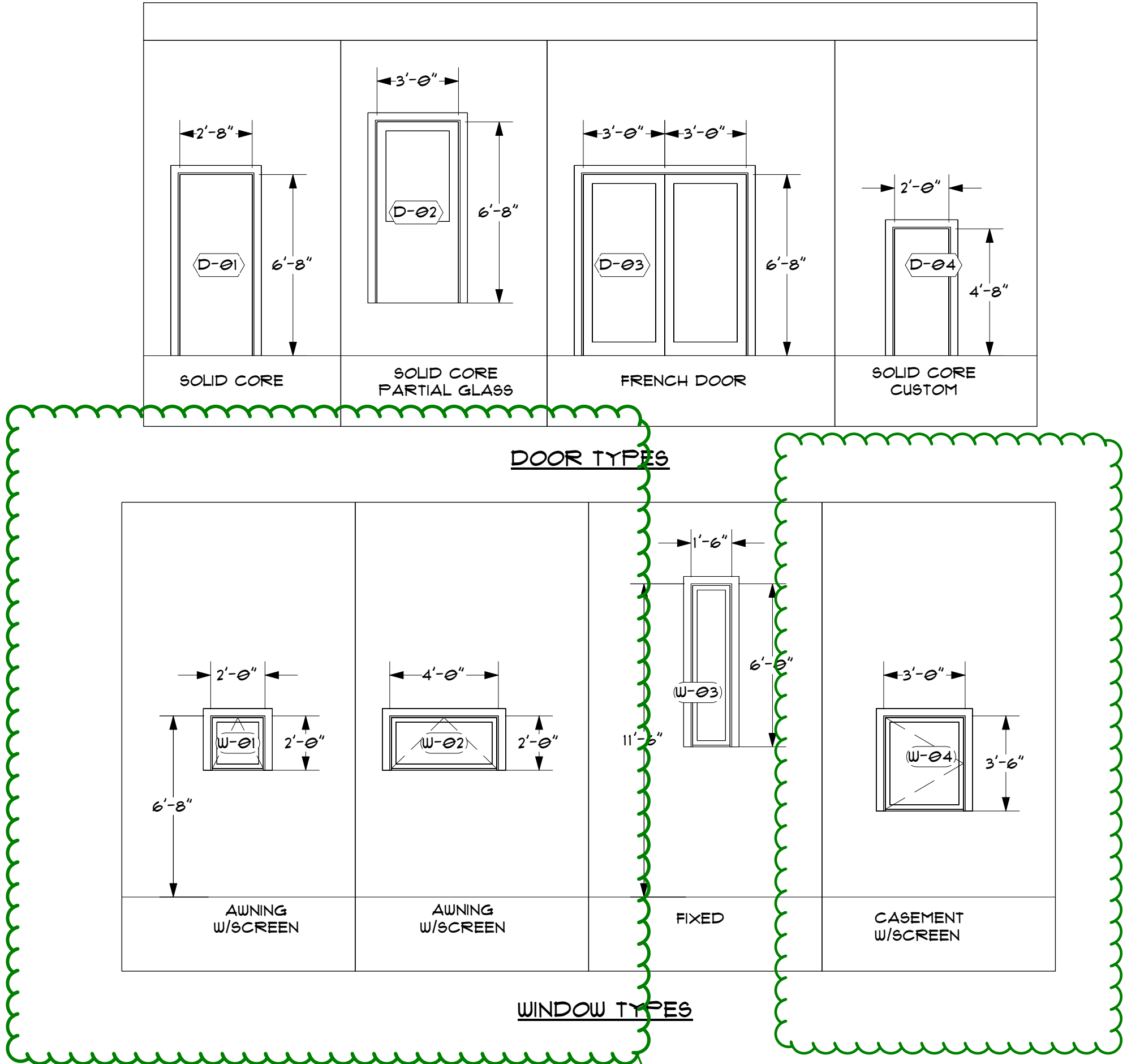
Floor plans & Schedules

Scale: Jul 24, 2025

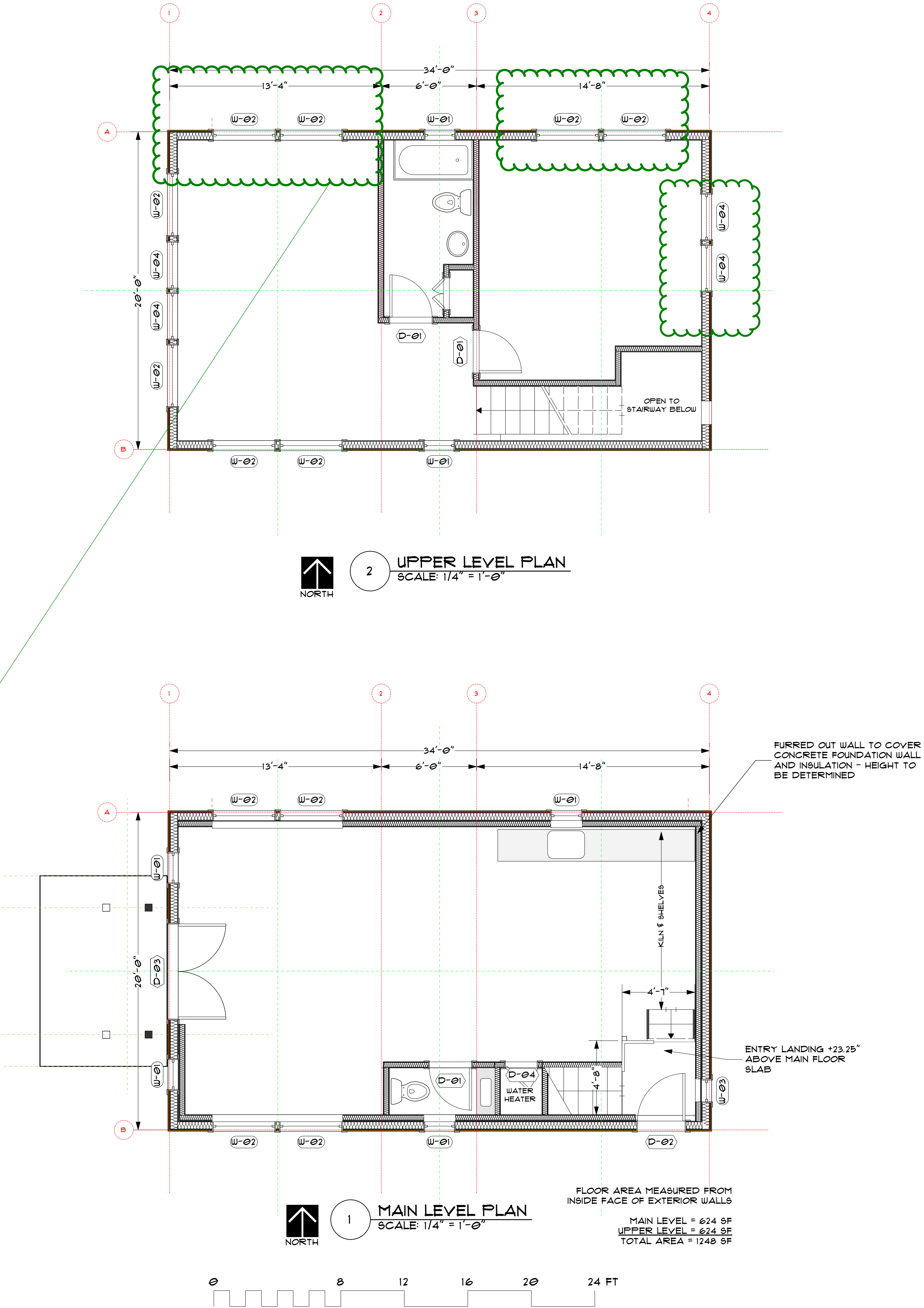
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10/02/2025 5:35:43 PM

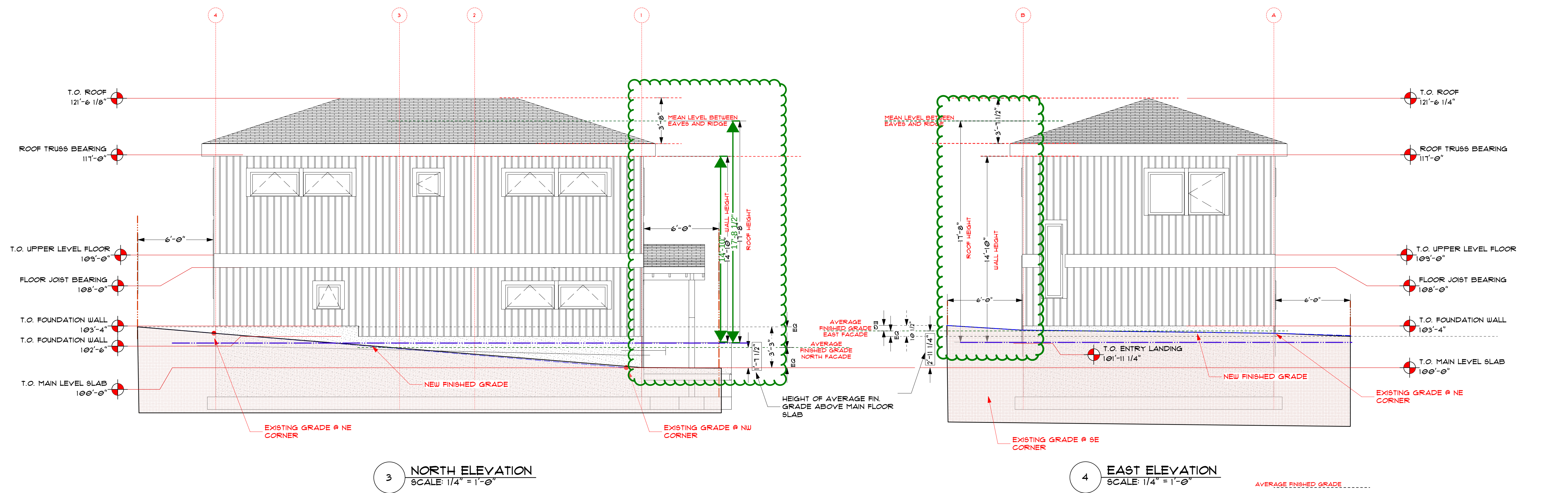
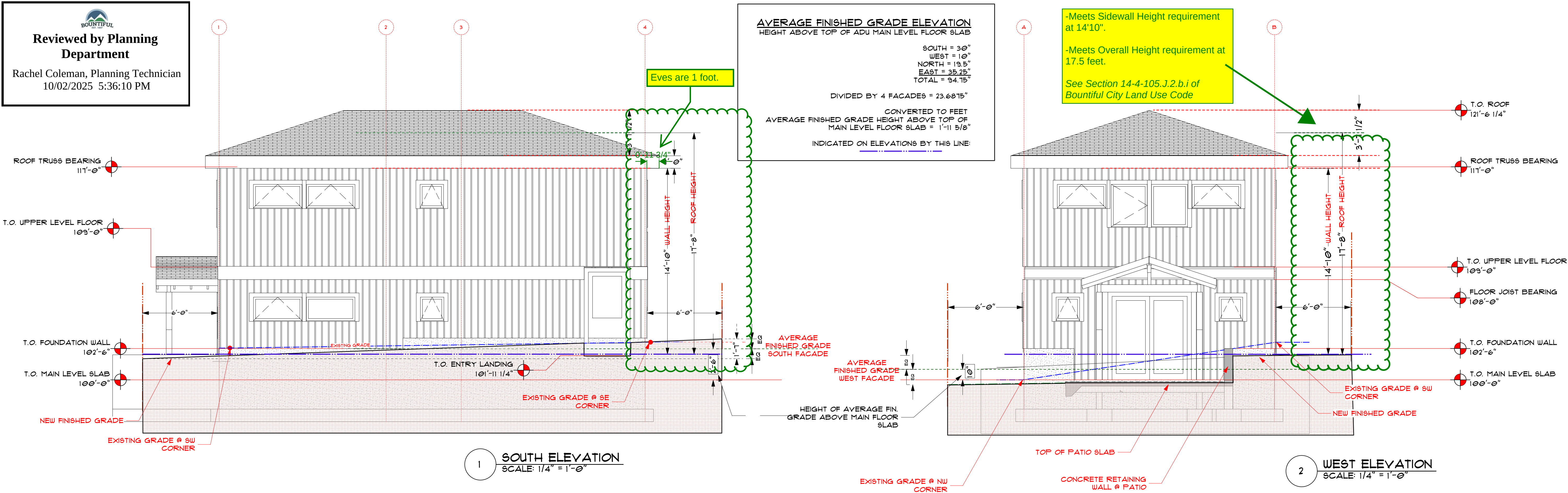


The proposed ADU will not include any doorways on the north or east elevations. Windows on these sides will be limited to no more than 4 feet in height and width.



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GEURTLE ADU
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Geurtler ADU

Exterior Elevations

Scale: **Jul 24, 2025**

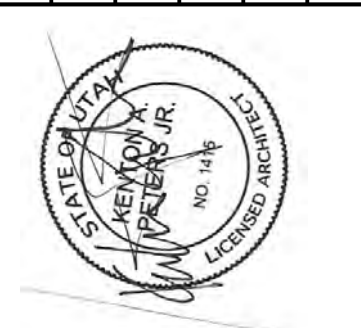
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GEURTLE ADU
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Geurtler ADU
Building Sections & Wall Section

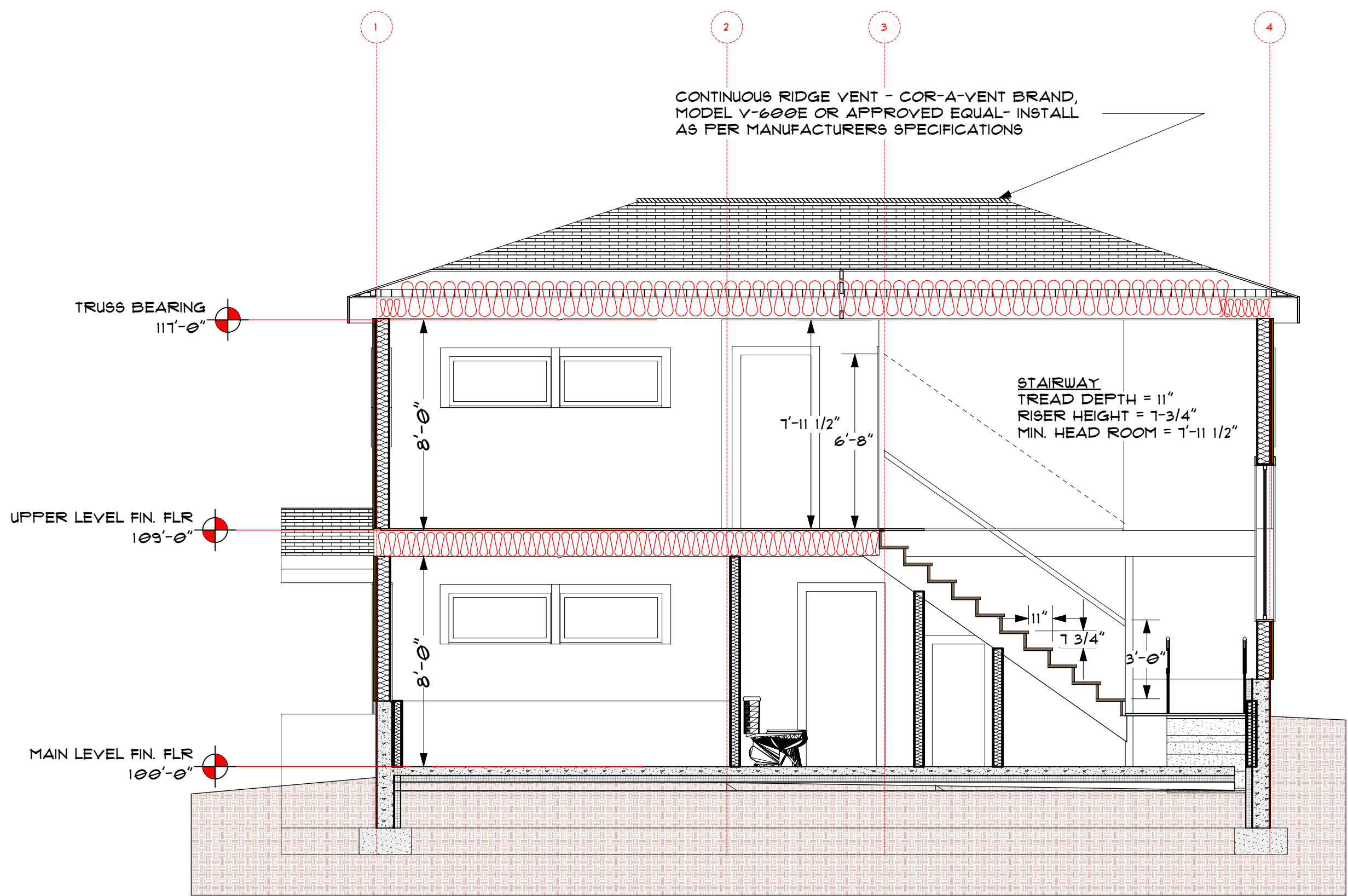
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of 10

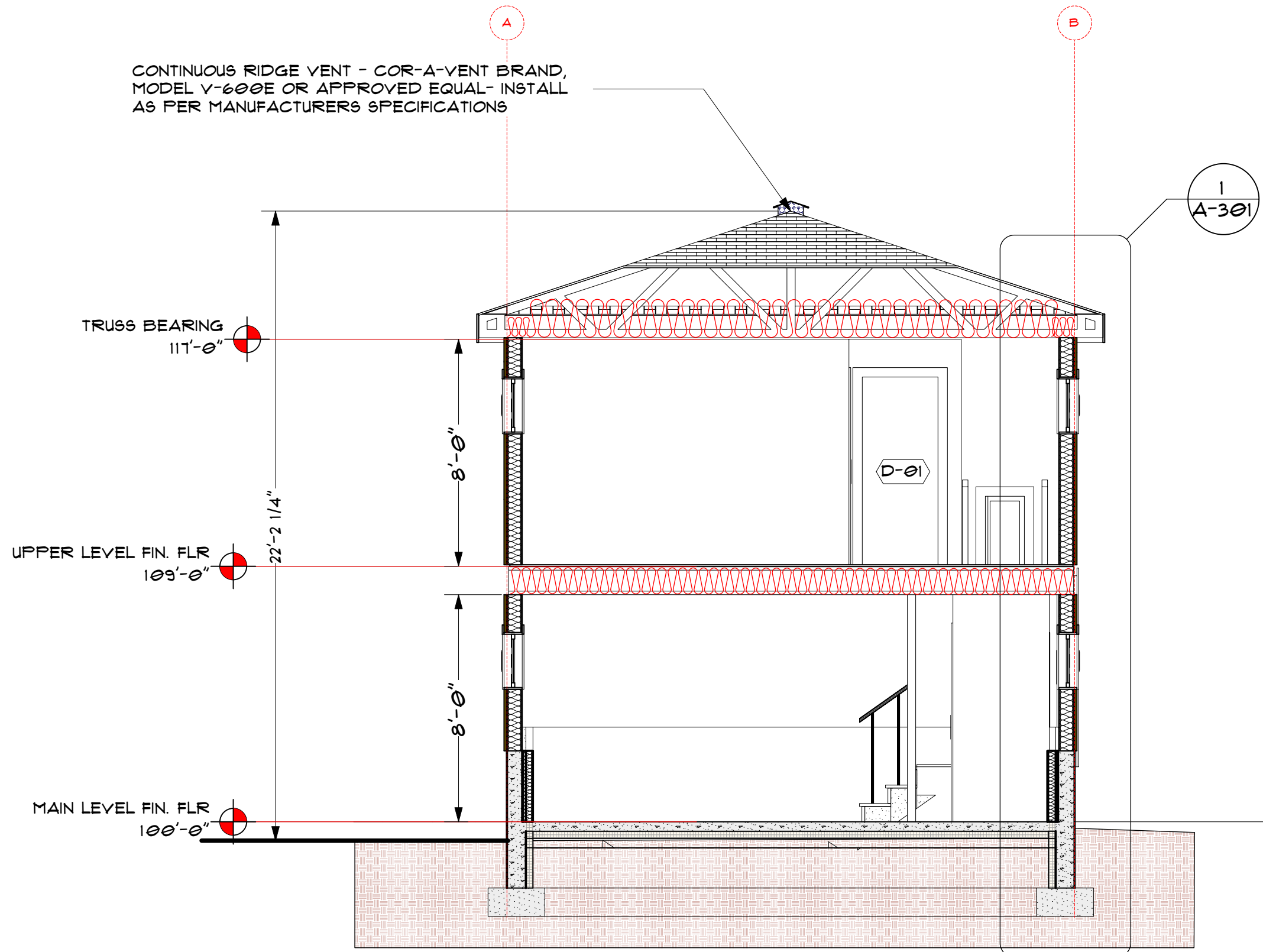


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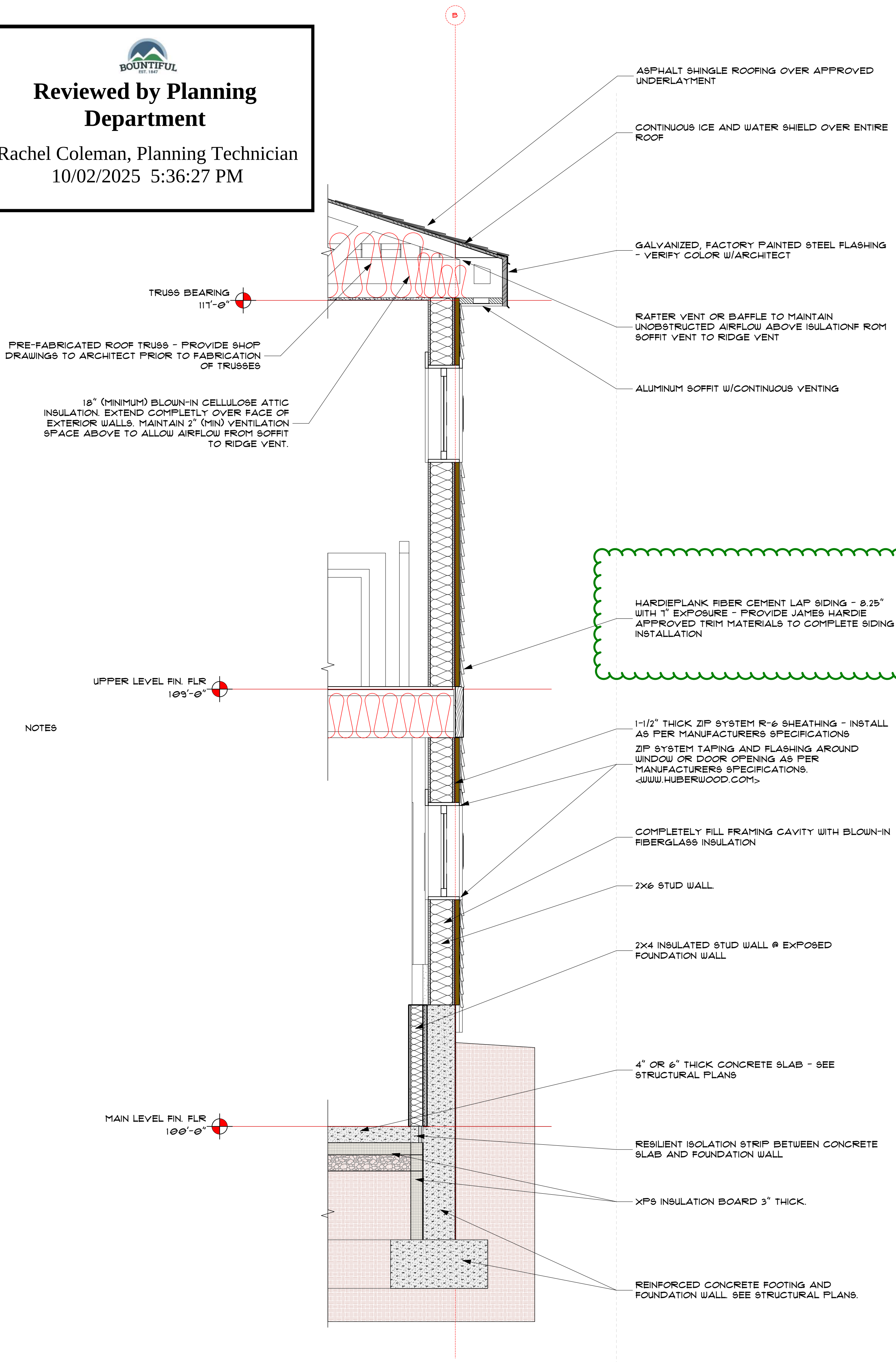


6 EAST/WEST BUILDING SECTION
SCALE: 1/4" = 1'-0"



5 N/S BUILDING SECTION
SCALE: 1/4" = 1'-0"

NOTES



1 WALL SECTION
SCALE: 3/4" = 1'-0"

Material being used on exterior walls of home



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Plot Date	



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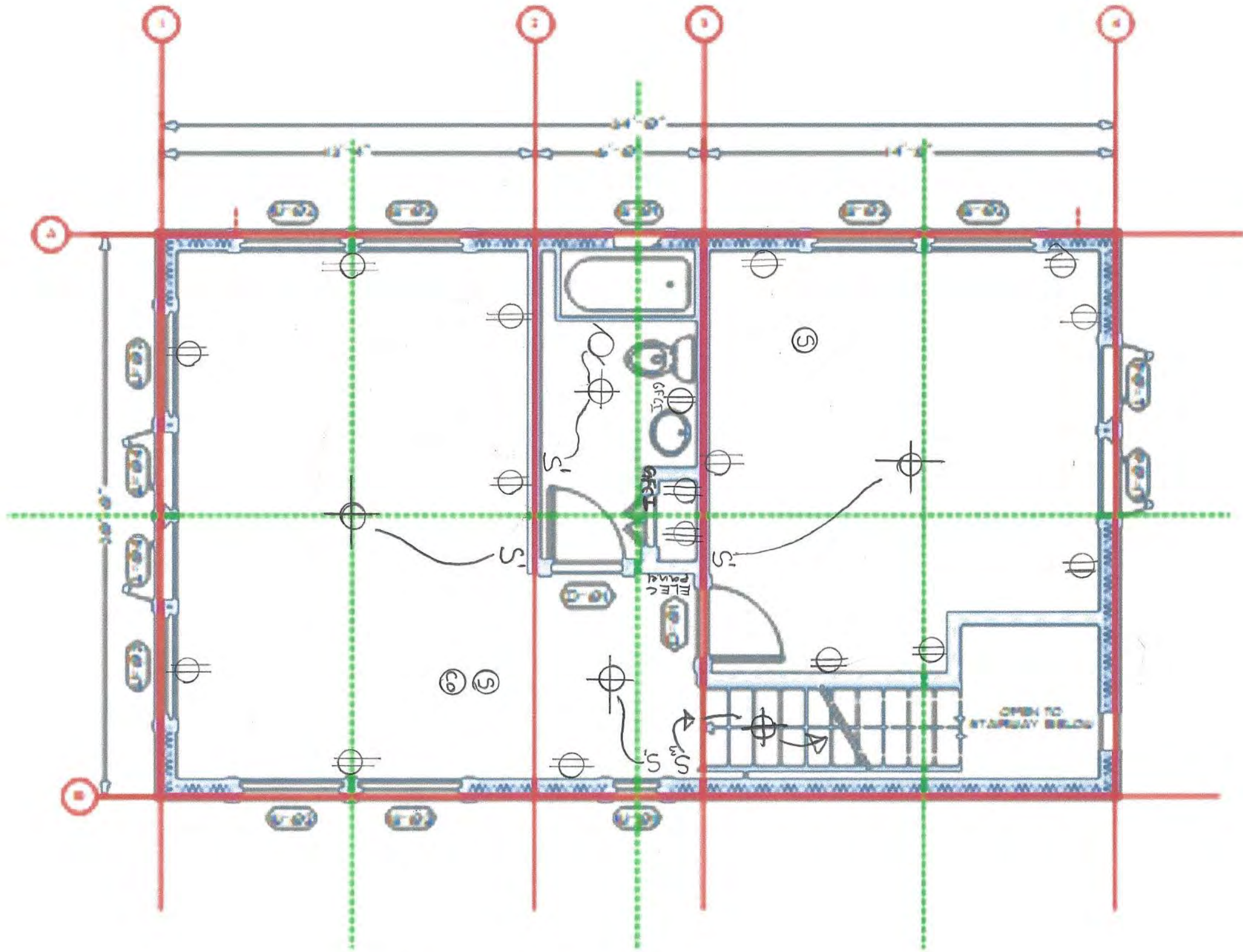
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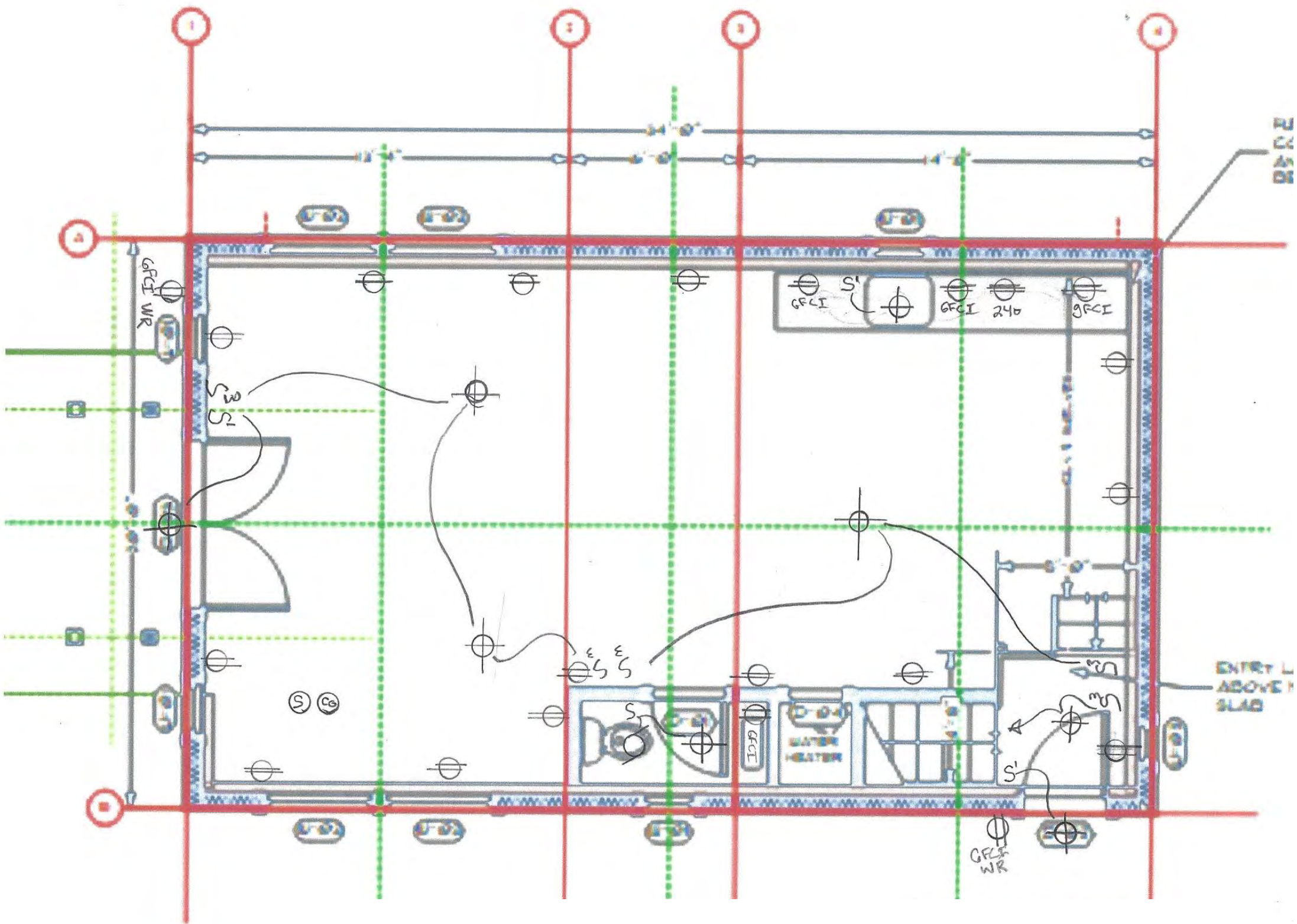
Electrical Plans

Project Title
Scale
Jul 24, 2025

Sheet No.
E-101
of
10



1 UPPER LEVEL ELECTRICAL LAYOUT
SCALE: 1/4" = 1'-0"



2 MAIN LEVEL ELECTRICAL LAYOUT
SCALE: 1/4" = 1'-0"

Jul 24, 2025

Diagram illustrating the cross-section and top view of a trench and sleeve assembly.

Labels:

- TRENCH
- SLEEVE
- CONG. FILL
- MIN
- 1'-6"
- 6"
- 1 1/2"
- 8" MIN
- 4" MIN
- 3'-0" MIN
- 2'-0" MIN
- 1'-0" MIN
- 9" MIN
- NO PIPE TRENCH EXCAVATION ALLOWED BELOW THIS LINE

NOTE: CONCRETE FILL TO BE THE SAME WIDTH AS FOOTING & FULL WIDTH OF PIPE TRENCH. PIPE TO CLEAR SLEEVE BY 1/2" ALL AROUND

STAIR TREAD -
SEE ARCH'L

STAIR STRINGER -
SEE ARCH'L

L4x4x1/4x4"

2x STAIR TREAD -
SEE ARCH'L

SIMPSON "TA10"
STAIRCASE ANGLE
TREAD SUPPORT

STAIR STRINGER :
SEE PLAN

SIMPSON "A35"

L4x4x1/4x4" w/1/2"Ø
EPOXY BOLTSx5"
EMBED 1/4" FILLET WELD
FROM L TO STRINGER

CONC. SLAB -
SEE PLAN FOR THICKNESS -
EXIST. CONC. SLAB
WHERE OCCURS

FIN. FLR.

4"

1'-0"

4"

2x6 x STAIR WIDTH KICKER PL.
w/(3 1/2)"Ø x EXPANSION ANCHORS
(2"x4)

NOTE: SEE ARCH'L DRAWINGS
FOR ALL STAIR DIMENSIONS
THIS IS ONLY A SUGGESTED
DETAIL.

90° HOOK

Diagram showing a 90° hook with dimensions: $\bar{D}$ (hook length), D' (hook diameter), and $\bar{D}$ (hook length).

180° HOOK

Diagram showing a 180° hook with dimensions: $\bar{D}$ (hook length), D' (hook diameter), and $4D'$ OR $2 \frac{1}{2}"$ MIN. (hook length).

90° BEND

Diagram showing a 90° bend with dimensions: D' (bend diameter) and $\bar{D}$ (bend length).

135° HOOK

Diagram showing a 135° hook with dimensions: D' (hook diameter) and $\bar{D}$ (hook length).

MAX. OFFSET BEND

Diagram showing a maximum offset bend with dimensions: $\bar{D}$ (hook length) and $\bar{D}$ (hook length).

PRINCIPAL REINFORCING

MIN. $D' = 1 \frac{1}{2}"$ FOR #3
 MIN. $D' = 2"$ FOR #4
 MIN. $D' = 2 \frac{1}{2}"$ FOR #5

TIE OR STIRRUP

NOTE: ALL BENDS SHALL BE MADE COLD.

The image contains three cross-sectional diagrams of concrete slabs, each showing a different method for creating a construction joint.

- Top Diagram: TYPICAL CONTROL JOINT**
 - Labels: CONG. FLOOR SLAB SEE PLAN, 1/2", 1/2" PREMOLED EXPANSION MATERIAL w/BACKER ROD, AGGREGATE BASE COURSE (A.B.C.), SAWCUT OR "ZIPSTRIP" CONTROL JOINT, SAW CUT SLAB WITHIN 12 HOURS FOURS, FINISHED FLOOR.
 - Dimensions: 1/2" gap for expansion material, 1/2" depth for sawcut.
- Middle Diagram: TYP. KEYED CONSTRUCTION JOINT**
 - Labels: CONG. FLOOR SLAB SEE PLAN, 3/4", USE WOOD JOINT OR "KEYED" JOINT AT CONTRACTORS OPTION. HOLD KEYED UNIT 4" BELOW TOP OF SLAB, WAIT 48 HOURS BETWEEN ADJACENT FOURS, FINISHED FLOOR.
 - Dimensions: 3/4" depth for keyed joint, 4" height for keyed unit.
- Bottom Diagram: TYP. SAW CUT CONSTRUCTION JOINT**
 - Labels: CONG. FLOOR SLAB SEE PLAN, 1/2", 1/2" PREMOLED EXPANSION MATERIAL w/BACKER ROD, AGGREGATE BASE COURSE (A.B.C.), SAWCUT OR "ZIPSTRIP" CONTROL JOINT, SAW CUT SLAB WITHIN 12 HOURS FOURS, FINISHED FLOOR.
 - Dimensions: 1/2" gap for expansion material, 1/2" depth for sawcut.

Figure 10: Reinforcement details for exterior walls. The figure contains six diagrams showing reinforcement layouts for double and single exterior walls at corners, intersections, and jamb openings. Each diagram includes dimensions (32 inches minimum for horizontal and vertical spacing) and labels for reinforcement details such as 'DUL. TO MATCH SIZE & SPACING w/ WALL REINF.', 'REINF. # SEE DETAIL', 'CONC. WALL - SEE PLAN', and 'STD. AGI HOOK'.

FOUNDATION WALL

CONCRETE FOOTING

TYPICAL FOOTING REINFORCING

SEE SCHEDULE ON FOOTING AND FOUNDATION PLAN FOR FOOTING SIZE AND REINFOR.

NOTE: REINFORCING MAY BE CONTINUOUS

Dimensions and Reinforcement:

- 1.5(a) MIN.
- 2'-0"
- (2) #4
- 24 DIA.
- LAP
- 2'-0"
- 3'-0" MAX.
- (a)
- 3" CLR.

STUDS "C" GLUED AND NAILED TOGETHER WITH (2) 16d NAILS AT 6" O.C.

SIMPSON No.	BOLT 'A'	ANCHOR BOLT 'B'	BOLT 'B' EMBEDMENT	STUDS 'C'
HD2U	(6) 8D8/4x2 1/2	5/8"-S512B2	16 5/8"	2- 2x
HD2U	(4) 8D8/4x2 1/2	5/8"-S512B4	10 5/8"	2- 2x
HD2U	(2) 8D8/4x2 1/2	7/8"-S512B4	28 1/8"	3- 2x
HD11U	(3) 8D8/4x2 1/2	1"-S513B3	24"	4- 2x
HD11U	(3) 8D8/4x2 1/2	1"-S513B3	24"	4- 2x

MULTI 2x STUDS
SEE PLAN &
SCHEDULE

HOLDOWN - SEE
SCHEDULE, TYP.

2x OR 3x TREATED DOUG FIR PLATE,
SEE SHEAR WALL SCHED.

12" MAXIMUM

SILL PLATE
TYPICAL

STUD WALL ANCHORS
AS PER STRUCTURAL
NOTES AND DETAILS
(2-MINIMUM PER
PLATE)

ANCHOR BOLT 'B'

THE FOOTING DEPTH SHALL BE
ADJUSTED DEEPER IF THE BOLTS
ARE REQUIRED TO BE EMBEDDED
LONGER

BOLTS 'A'

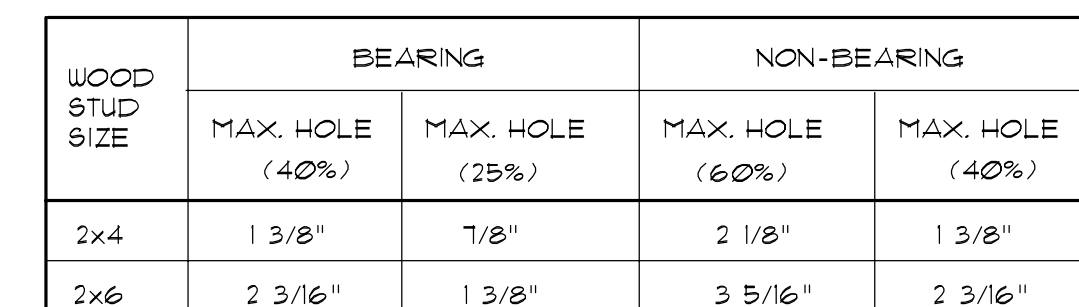
WHERE PLATE IS DRILLED OR NOTCHED MORE THAN ONE-THIRD OF THE WIDTH ANCHORS OF EQUIVALENT SIZE AND STRENGTH SHALL BE PLACED 9" MAXIMUM EACH SIDE OF CUT. PLATES LESS THAN 6" IN WIDTH SHALL NOT BE DRILLED OR NOTCHED EXCEPT FOR ANCHOR PLACEMENT.

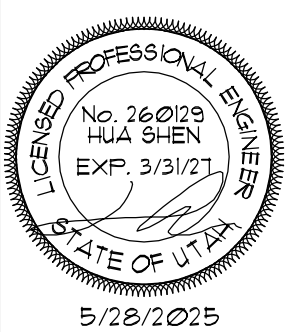
LAYOUT APPLIES TO: CAST-IN-PLACE ANCHORS
EPOXY ANCHORS
POWDER-DRIVEN ANCHORS

NOTE:
AT SEISMIC CATEGORY D & E, ALL FOUNDATION PLATE ANCHOR BOLTS TO USE A MIN. 3x3x1/4 PLATE WASHERS ALL WD. PL. CONTACT w/ CONG. MAS. TO BE P.T. TYP.



8 NAIL/STAPLE EQUIVALENT TABLE





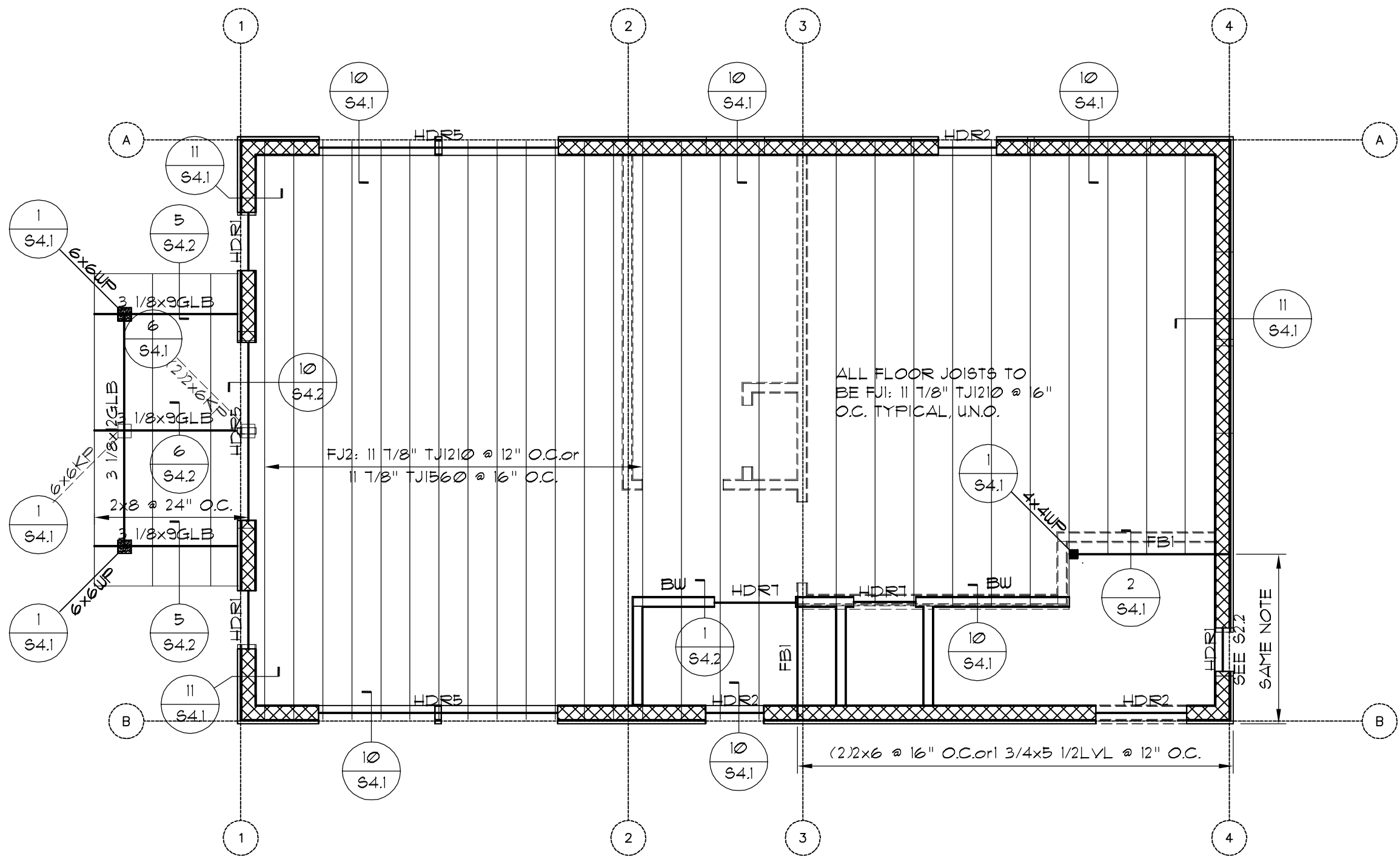
GEURTLER ADU
685 EAST 1825 SOUTH
BOUNTIFUL, UTAH

Project Manager	Checker	Revised By	Drawn By	Issue Notes
Project ID: S2206	Scale	Revised No.	Drawn No.	No. Date

Project Manager	Checker	Revised By	Drawn By	Issue Notes
Project ID: S2206	Scale	Revised No.	Drawn No.	No. Date

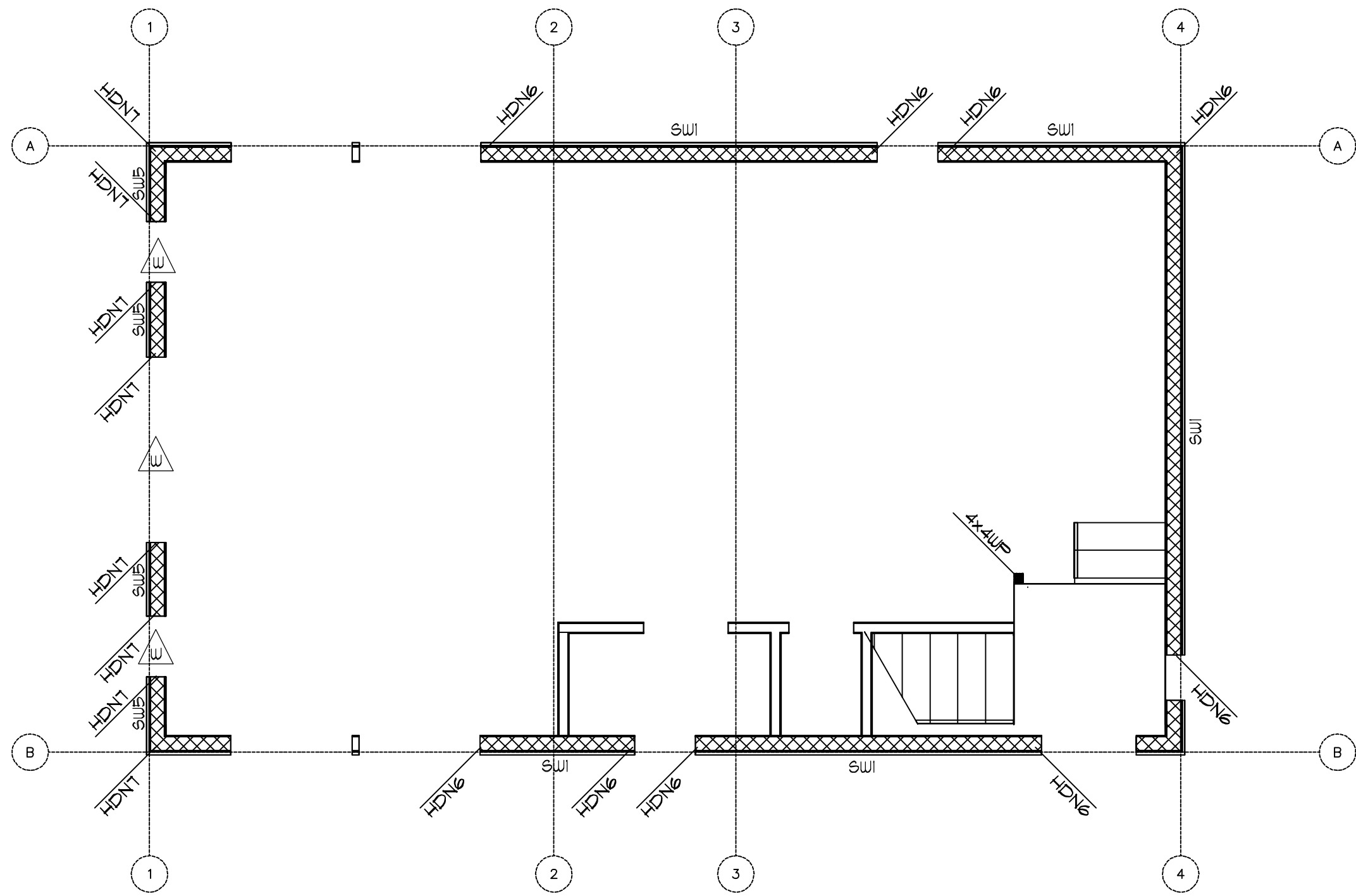
Project Manager	Checker	Revised By	Drawn By	Issue Notes
Project ID: S2206	Scale	Revised No.	Drawn No.	No. Date

S2.1



UPPER FLOOR FRAMING PLAN

SCALE 1/4" = 1'-0"



MAIN LEVEL LATERAL PLAN

SCALE 1/4" = 1'-0"

BF1: 20'0" BIGFOOT FTG. w/
8" CONC. SONO TUBE PIER w/
(4) #4 V.#3 TIES @ 8" O.C. #3 #3
TIES TOP
BF2: 24'0" BIGFOOT FTG. w/
8" CONC. SONO TUBE PIER w/
(4) #4 V.#3 TIES @ 8" O.C. #3 #3
TIES TOP
BF3: 28'0" BIGFOOT FTG. w/
12" CONC. SONO TUBE PIER w/
(4) #4 V.#3 TIES @ 12" O.C. #3 #3
TIES TOP
BF4: 32'0" BIGFOOT FTG. w/
12" CONC. SONO TUBE PIER w/
(4) #4 V.#3 TIES @ 12" O.C. #3 #3
TIES TOP
BF5: 36'0" BIGFOOT FTG. w/
12" CONC. SONO TUBE PIER w/
(4) #4 V.#3 TIES @ 12" O.C. #3 #3
TIES TOP

FOUNDATION PLAN NOTES:

- SEE GENERAL STRUCTURAL NOTES SHEET AND STANDARD CONCRETE DETAIL SHEET FOR:
A. GENERAL STRUCTURAL NOTES
B. TYPICAL EXCAVATION ADJACENT TO FOOTING
C. TYPICAL SLAB JOINT DETAILS
D. TYPICAL STEPPED FOOTING
- WS - DENOTES CONCRETE WALL STEP.
3. F-1 - DENOTES FOOTING MARK - SEE FOOTING SCHEDULE
4. K.C.J. - DENOTES KEYED CONSTR. JOINT - SEE STANDARD DETAIL.
5. C.J. - DENOTES CONTROL JOINT - SEE STANDARD DETAIL.
6. F-----S - DENOTES FOOTING STEP, SEE DETAIL TYPICAL.
- CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. SEE ARCHITECTURAL FOR ALL DIMENSIONS. SLAB SLOPES & DEPRESSIONS NOT NOTED.
- ALL SLABS ON GRADE ARE TO BE JOINTED AT NO MORE THAN 15'-0" EACH WAY. JOINTS PER STANDARD DETAIL. IN ADDITION, NO SECTION OF CONCRETE SHALL HAVE AN ASPECT RATIO OF GREATER THAN 1 1/2:1. PROVIDE (2) #4 x 4'-0" MID-HEIGHT SLAB BARS ADJACENT TO ALL DISCONTINUOUS JOINT LOCATIONS. ALL COLUMN ISOLATION JOINT CORNERS ARE TO BE INTERSECTED BY A SLAB JOINT OR REINFORCED WITH SLAB BARS PER ABOVE. SUBMIT COMPLETE JOINT LAYOUT PLAN TO THE ARCHITECT FOR PRIOR REVIEW.
- ALL WOOD TO CONTACT w/ CONC. OR MASONRY TO BE P.T. OR REDWOOD TYP.
- ALL FOUNDATION PL. ANCHOR BOLTS TO USE A MIN. 3x3x1/4 PL. WASHERS TYP.

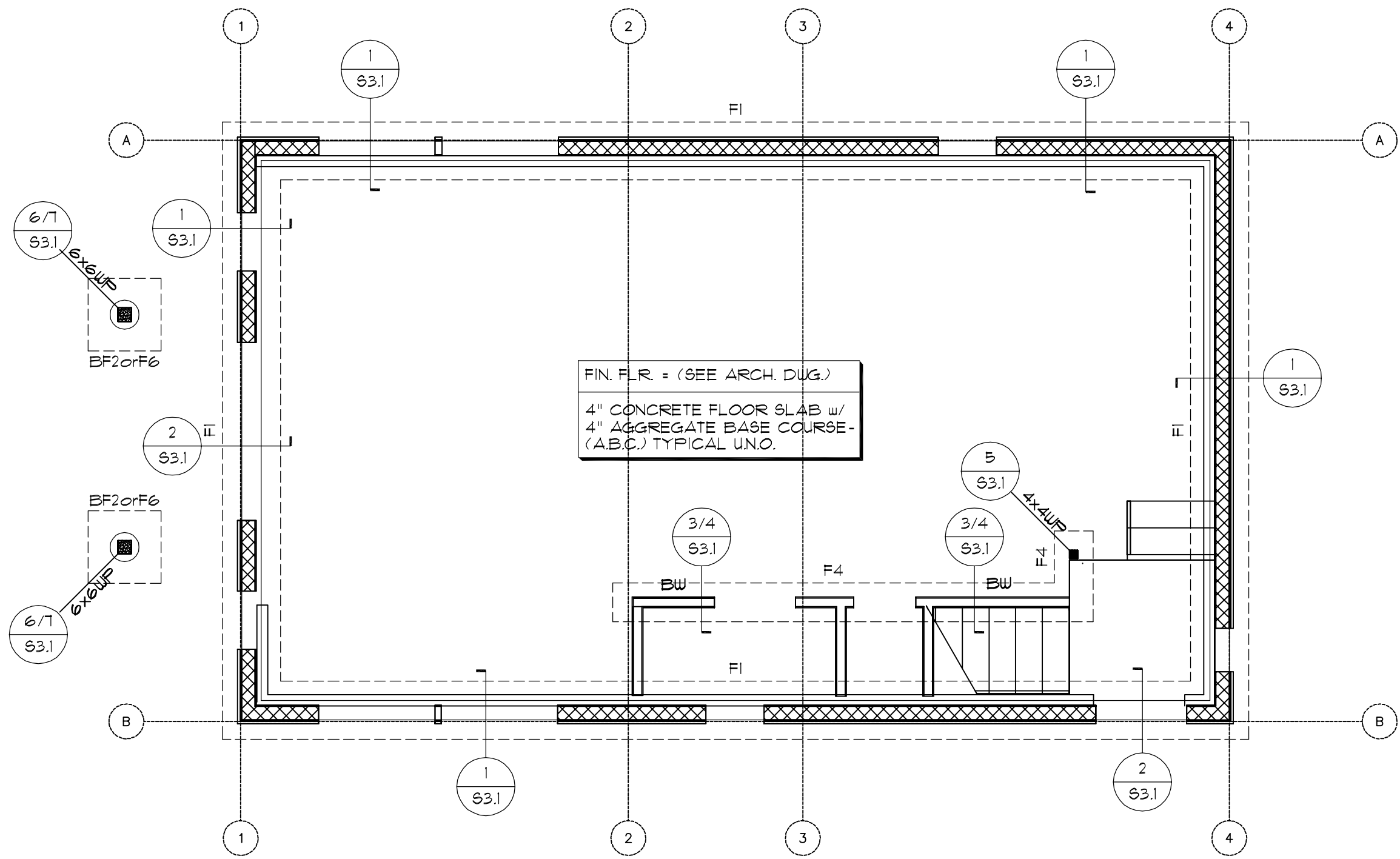
CONCRETE FOUR NOTES:

- VERIFY FTG STEP LOCATIONS AND HEIGHT IN FIELD PRIOR TO FORMING FOOTINGS. MAKE FTG REBAR CONTINUOUS THROUGH FTGS WITH BENT BARS AT CORNERS. LAP BARS 40 BAR DIAMETERS AT SPLICES AND TIE.
- DO NOT POUR ANY CONCRETE UNTIL THE FORMS ARE ADEQUATELY BOLSTERED AND SUPPORTED AND ALL REBAR IS IN PLACE AND SECURED.
- DO NOT PERMIT FIN. GRADE TO COME CLOSER THAN 6" TO TOP OF CONCRETE.
- FOR FOUNDATIONS REBAR INSPECTIONS FOR FOUNDATION WALLS OVER 8'-0", FORMS ARE NOT TO BE INSTALLED ON ONE SIDE UNTIL AFTER THE REBAR HAS BEEN INSPECTED AND APPROVED.
- PROVIDE A U-FER GROUND DURING CONSTRUCTION OF FOOTING & FOUNDATION.
- ALL FASTENERS (IE NAILS, SCREWS, ANCHOR BOLTS, ETC.) WHICH ARE TO BE INSTALLED IN PRESERVATIVE TREATED WOOD (IE SILL PLATES) SHALL BE HOT-DIPPED, ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER (MEET THE REQUIREMENTS OF IBC 2304.9.5.)
- ALL L ANGLES FOR SUPPORTING VENEERS ARE HOT-DIPPED GALVANIZED.

FOOTING SCHEDULE

BASED ON SOIL BEARING = 1500 PSF
ARCH/CONTRACTOR VERIFY IT

MARK	SIZE	REINFORCING	REMARKS
F1	2'-0" x CONT. x 12"	(2) #5 / (3) #4 CONT.	
F2	2'-6" x CONT. x 12"	(3) #5 / (4) #4 CONT.	
F3	3'-0" x CONT. x 12"	(3) #5 / (4) #4 CONT.	
F4	1'-4" x CONT. x 12"	(2) #4 CONT.	THICKENED SLAB
F5	2'-0" SQ. x 12"	(2) #5 / (3) #4 EW.	
F6	2'-6" SQ. x 12"	(3) #5 EW.	
F7	3'-0" SQ. x 12"	(3) #5 EW.	
F8	3'-6" SQ. x 12"	(4) #5 EW.	
F9	4'-0" SQ. x 12"	(4) #5 EW.	



FOOTING & FOUNDATION PLAN

SCALE 1/4" = 1'-0"

SCHEDULE FOR SIMPSON HANGERS ON BEAMS AND JOISTS TYP.	TOP MOUNT HANGERS	FACE MOUNT HANGERS
3 1/2" TJ SERIES	ITS/BA/UF	IUS
DBL 3 1/2" TJ	MIT/BA/ITS	MIU
11 7/8" TJ	ITS/BA/UF	IUS
DBL 11 7/8" TJ	MIT/BA/ITS	MIU
1 3/4" LVL or PSL	ITS/BA/UF	HU
3 1/2" LVL or PSL	HGLT	HU/HGU
5 1/4" LVL or PSL	HGLTV	HU/HGU
7" LVL or PSL	HGLTV	HGUS
3 1/8" GLB	HGLT	
5 1/8" GLB	HGLTV	
6 3/4" GLB	HGLTV	
8 3/4" GLB	HGLST	
2x JOISTS	HU	LUS/HU
(2) 2x	HUS-2TF	LUS-2/HU-2
(3) 2x	HUS-3TF	LUS-3/HU-3

ON STRUCTURAL PLANS AND DETAILS, THERE ARE SOME OPTIONS. ARCHITECTS PLEASE SPECIFY THE OPTIONS. IF G.C. OR OWNER HAS ANY CONCERNS ON THE OPTIONS, CONTACT ARCHITECTS TO CLARIFY THEM TYP. UNO.

ALL FLOOR JOISTS TO BE FU: 11 7/8" TJ/210 @ 16" O.C. TYPICAL, UNO.
FU2: 11 7/8" TJ/210 @ 12" O.C. or 11 7/8" TJ/260 @ 16" O.C.

CONTRACTOR PLEASE SEE ARCH. DIAG. FOR PLUMBING LOCATION OF BATHTUB, TOILET. PLEASE OFFSET JOISTS WHERE OCCURS. USE DOUBLE JOISTS UNDER BATHTUB, KITCHEN ISLAND, AND OTHER HEAVY STUFFS.

NOTE: FOR ALL (2) 3/4x11 7/8LVL BM PROVIDE MIN. (2) 2x6 AS END BEARINGS TYP. UNO.

UB1/MB1/LB1/FB1: (2) 3/4x11 7/8 LVL
UB2/MB2/LB2/FB2: (3) 1 3/4x11 7/8 LVL or 5 1/8x12 GLB

THE GLB BEAMS CAN BE SUBSTITUTED BY PSL (or LVL) BEAMS AS FOLLOWS:
(IT DOESN'T WORK FROM PSL (or LVL) TO GLB TYP.)

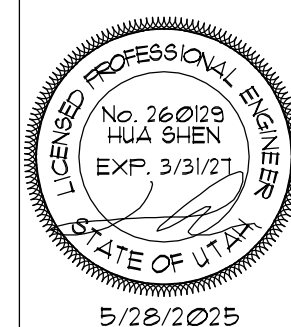
3 1/8x9GLB	3 1/2x9 1/2PSL/(2) 3/4x9 1/2LVL
3 1/8x12GLB	3 1/2x11 7/8PSL/(2) 3/4x11 7/8LVL
5 1/8x12GLB	5 1/4x11 7/8PSL/(3) 3/4x11 7/8LVL
5 1/8x15GLB	5 1/4x11 7/8PSL/(3) 3/4x11 7/8LVL
5 1/8x18GLB	5 1/4x12PSL/(3) 3/4x11 7/8LVL
6 3/4x12GLB	7x11 7/8PSL/(4) 3/4x11 7/8LVL

TYPICAL DECK PLANK:
2x6 REDWOOD (OR P.T. WOOD) w/
(2) #6 @ EA JOIST AND (4) #6 @
END OF PLANK TO EA JOIST
TYPICAL UNLESS NOTED OTHERS

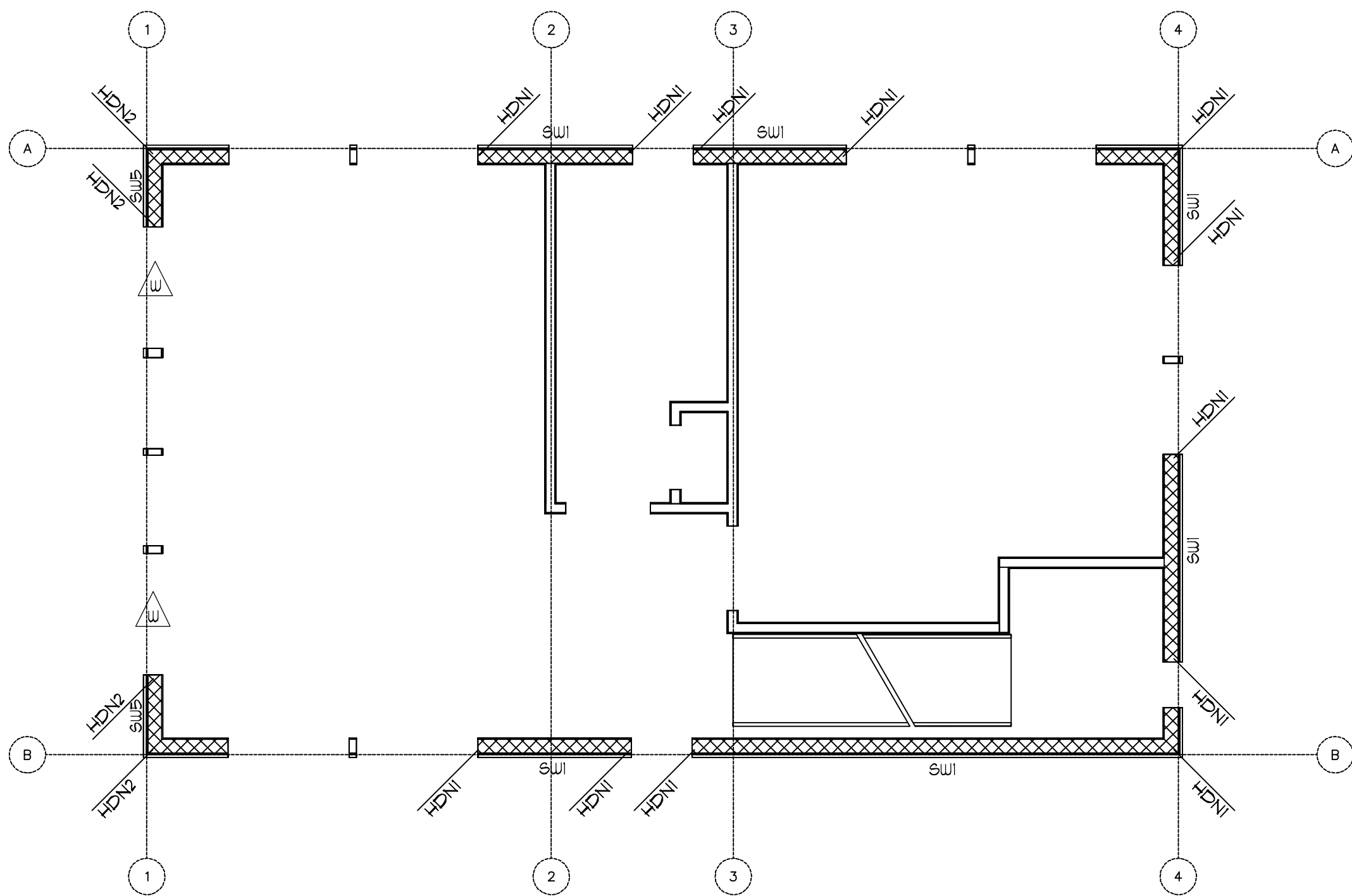
TYPICAL FLOOR DECK:
3/4" FLUD/OSB SHEATHING, SPAN RATING 40/20
SEE GENERAL STRUCTURAL NOTES-TYPICAL
GLUE AND NAIL TO ALL JOISTS
10d @ 6" O.C. AT ALL PANEL EDGES, SUPPORTED
EDGES, AND ALL TOP OF SHEAR WALLS
10d @ 12" O.C. AT ALL PANEL FIELD
PLACE SHEATHING LONG-WISE ACROSS FRAMING,
STAGGER END JOINTS, UNBLOCKED DIAFRAGM.

FLOOR FRAMING PLAN NOTES:

- SEE GENERAL STRUCTURAL NOTES AND STANDARD FRAMING DETAILS FOR:
A. GENERAL STRUCTURAL NOTES
B. TYPICAL HEADER DETAIL
C. TYPICAL SHEAR WALL DETAIL
D. TYPICAL TOP PLATE SPLICE DETAIL
- HDR-1 = HEADER SEE HEADER SCHEDULE TYPICAL.
- ALL FLOOR MEMBERS ARE TO BE 11 7/8" TJ 210 TYPICAL, UNO.
- ESTABLISH AND VERIFY ALL OPENINGS & INSERTS FOR MECHANICAL, ELECTRICAL & PLUMBING WITH THE APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION.
- HANGING CEILING, DUCTWORK OR OTHER ITEMS FROM THE FLYWOOD DECK IS NOT ALLOWED.
- PROVIDE JOIST BRIDGING AS PER MANUFACTURER'S SPECIFICATION.
- PROVIDE SOLID BLOCKING AT JOIST BEARING TYPICAL UNO.
- PROVIDE 1/8" GAP ON WALL SHEATHING FLUD. OR FOLLOW MANUFACTURER'S SPECIFICATION.
- SEE DETAIL FOR MULTI-STUDS TO WOOD BEAM/HEADER CONNECTION TYPICAL UNO.
- "-B-" INDICATES MOMENT CONN. TYP. UNO.
- SHEAR WALLS SHOWN ARE BELOW FRAMING LEVEL. COORDINATE WITH FRAMING PLANS. HOLDOWNS SHOWN ARE LAYING ON FRAMING LEVEL. COORDINATE WITH FRAMING PLANS.

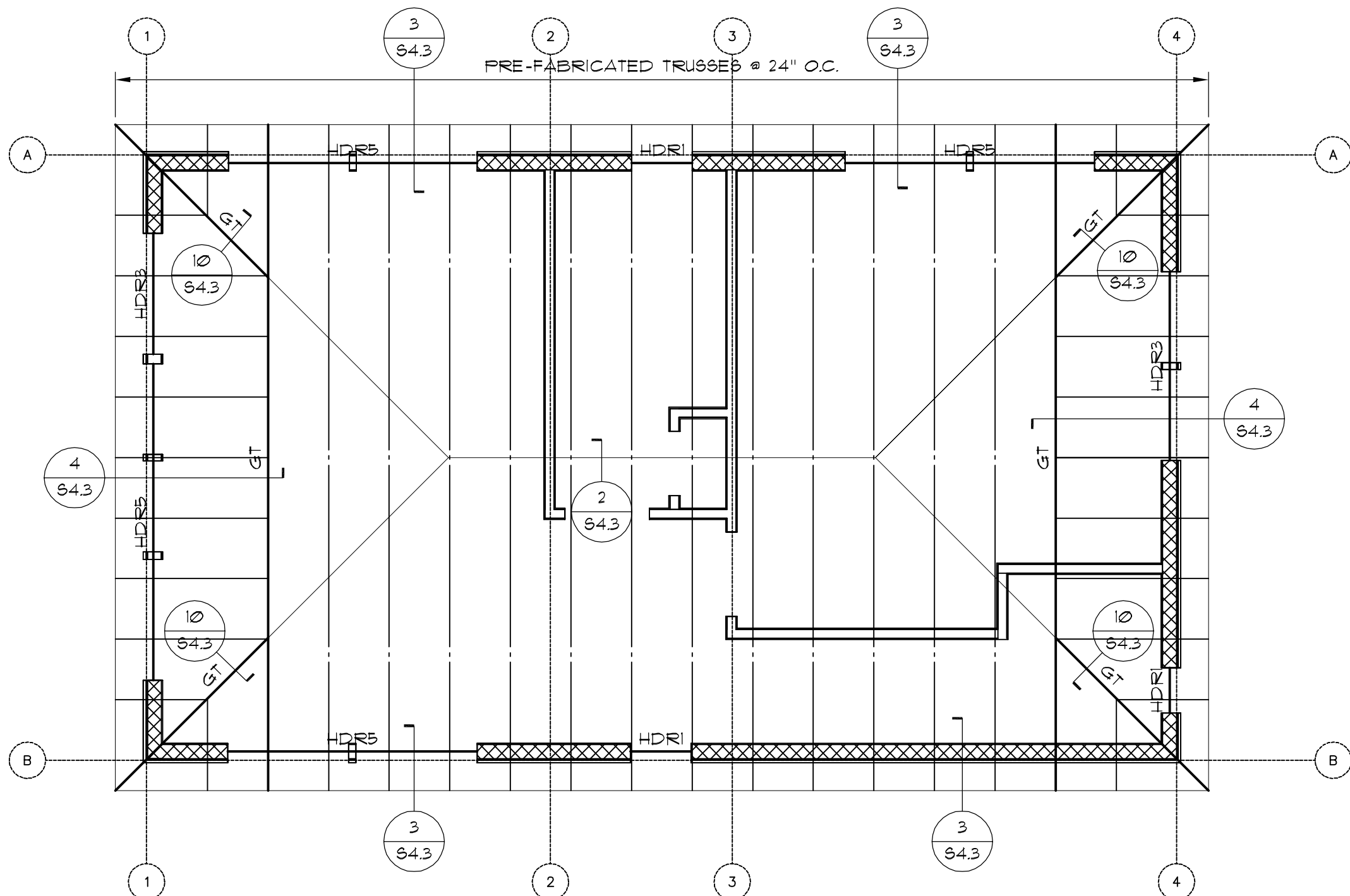


GEURTLER ADU
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BOUNTIFUL, UTAH



UPPER LEVEL LATERAL PLAN

SCALE 1/4" = 1'-0"



ROOF FRAMING PLAN

SCALE 1/4" = 1'-0"

HDR: HEADER SEE SCHEDULE
HDN: HOLDOWN SEE SCHEDULE
SW: WOOD SHEAR WALL, SEE SCHEDULE
BW: BEARING WALL
EWA: BEARING WALL ABOVE
NBW: NON-BEARING WALL
OBR: OVER-BUILD ROOF
GT: GIRDER TRUSS
KP: KING POST
DJ: DOUBLE JOISTS

THE CONVERSION CHARTS OF TJI & BCI
ONE WAY CONVERTING FROM TJI TO
BCI ONLY w/NO REVERSE ALLOWED
TJI110 BCI5000-1.1
TJI120 BCI5000-1.2
TJI220 BCI5000-1.3
TJI360 BCI5000-1.4
TJI560 BCI5000-1.5

THE CONVERSION CHARTS OF SIMPSON & MITEK
FOR ANYTHING NOT LISTED BELOW, GO ONLINE OF MITEK-
US.COM TO FIND THE "REFERENCE NUMBER CONVERSION
CHART TYP. UNO. OR USE THE SAME OR BETTER SIZE/
GAUGE/THICKNESS/SPACE/NAILING/SCREWING PATTERNS
AND ETC. MATERIALS TYP. UNO.

SIMPSON/MITEK CONVERSIONS:
A34/MP34, A35/MPA1, BC4/C44, CB/KCB, C96/R950
ECC/KECC, ECCQ/LECCQ, H/RT, HD12/DT12, HDU/PHD,
HL/KHL, HU/HD, JB/H/L, L/AC, L3/MP, LTP/MP, LU/L,
LUS/JUS, M5T/K5T, MTS/MTU, PA/T4, PB/UE, SD5/UD5
ST/ST, STDH/STDH,
SET-XP/CIA-EA, GLB/KGLB, LTT/LTS, HTT/LTT1, AB/PA,
EPB/APB/

(H): BEAMS ON HIGH ROOF
(M): BEAMS ON MAIN/MIDDLE ROOF
(L): BEAMS ON LOW ROOF
(UP): INSTALL BEAM UP TO THE JOIST SPACE
TO HIDE THE BEAM
(DN/DOWN): INSTALL BEAM RIGHT BELOW JOISTS

PROVIDE MIN. (2)2x6(FOR 2x6 WALL)OR(3)2x4
(FOR 2x4 WALL) AS END-BRG. OF THE BEAMS
OR GIRDER TRUSSES TYP. IF NOT CALLED OUT
UNO.

EPOXY BOLTS CALLED OUT ON PLAN ARE SIMPSON
"SET" FOR CMU APPLICATION (ICC ESR-1172) &
HILTI HIT RE 500-SD EPOXY BOLTS FOR CONC.
APPLICATIONS (ICC ESR-2322).
THE INSTALLING REQUIREMENT FOR ANCHOR BOLTS
AND/OR REBAR DOUBLES ARE AS FOLLOWS:
DIAMETER/DRILL DIAMETER DEPTH/EDGE DIST/SPACING DIST.
1/2" / 5/8" / 4 1/4" / 1 3/4" / 6 3/8"
5/8" / 3/4" / 5" / 1 3/4" / 7 1/2"
3/4" / 7/8" / 6 3/4" / 1 3/4" / 10 1/8"

TYPICAL ROOF DECK:
5/8" FLUD/OSB SHEATHING, SPAN RATING 32/16
SEE GENERAL STRUCTURAL NOTES-TYPICAL
NAILING:
10d @ 6" O.C. AT ALL PANEL EDGES, SUPPORTED
EDGES, AND ALL TOP OF SHEAR WALLS
10d @ 12" O.C. AT ALL PANEL FIELD
PLACE SHEATHING LONG-WISE ACROSS FRAMING,
STAGGER END JOINTS, UNBLOCKED DIAPHRAGM.

ROOF TRUSS DESIGN CRITERIA

MARK	TOP CHFRD DEAD LOAD	BOTTOM CHD. DEAD LOAD	TOP CHFRD SNOW LOAD	TOTAL LOADS
REGULAR TRUSSES	20 PSF	5 PSF	35 PSF	60 PSF
GIRDER TRUSSES	20 PSF	5 PSF	35 PSF	60 PSF

NOTE: SNOW DRIFT SHALL BE INCLUDED ON DESIGN IF APPLIED
MIN 1/2 OF ROOF SNOW LOAD SHALL BE APPLIED TO LOWER ROOF SNOW DRIFT.
SEE PLAN FOR POINT LOADS TO GIRDER TRUSSES IF APPLIED.
MIN. (3)2x6 FOR 2x6 STUD WALLS OR (3)2x4 FOR 2x4 STUD WALLS
TO SUPPORT THE GIRDER TRUSSES TYP. UNO.

FOR TRUSS CONNECTION RELATED CONNECTORS,
REFER TO TRUSS MANUFACTURER'S
DESIGN PACKAGES. THE FOLLOWING
CONNECTORS ARE THE SUGGESTIONS:
THAT/HAC/LUS/HUS/HUS/HUS/HUS FOR SINGLE OR
MULTI-TRUSSES TO BEAM/GIRDER TRUSSES.
THAT/THAL FOR SKEUED TRUSSOR MULTI-
TRUSSES TO BEAM/GIRDER TRUSSES

A TRUSS PACKAGE MUST BE SUBMITTED TO THE BUILDING
OFFICIAL AS A DEFERRED SUBMITTAL. PRIOR TO SUBMITTING
TO THE CITY, THE PACKAGE MUST BE REVIEWED BY THE
ENGINEER OF RECORD AND STAMPED FOR GENERAL
CONFORMANCE. NO TRUSSES ARE TO BE INSTALLED UNTIL
APPROVED BY THE BUILDING OFFICIAL.

RB1: 5 1/8x12 GLB
RB2: (2) 3/4x11 7/8 LVL, RB2A: 1 3/4x11 7/8 LVL
RB2A ON FASCIA OF THE EAVE/GABLE TYP. UNO.
RB3: (3) 3/4x11 7/8 LVL OR 5 1/8x12 GLB

FOR ALL ROOF JOISTS/TRUSSES TO THE
FASCIA BEAM RB-2A CONNECTIONS, USE
SIMPSON "L50" ON EACH JOIST/TRUSS OR
EQUAL TYP. UNO.

ROOF FRAMING PLAN NOTES:

- SEE GENERAL STRUCTURAL NOTES SHEET
AND STANDARD WOOD FRAMING DETAILS FOR
A. GENERAL STRUCTURAL NOTES
B. TYPICAL HEADER DETAIL
C. TYPICAL TOP PLATE SPICE DETAIL
D. TYPICAL SHEAR WALL DETAIL
- KP & KING POST SEE PLAN FOR SIZE AND
LOCATION TYPICAL.
- ALL ROOF JOISTS OR TRUSSES ARE CALLED
OUT ON PLAN. SEE PLAN FOR SIZE & SPACE TYP.
- ESTABLISH AND VERIFY ALL OPENINGS &
INSERTS FOR MECHANICAL, ELECTRICAL &
PLUMBING WITH THE APPROPRIATE TRADES,
DRAWINGS AND SUBCONTRACTORS PRIOR
TO CONSTRUCTION.
- HANGING CEILING, DUCTWORK OR OTHER
ITEMS FROM THE FLYWOOD DECK IS NOT
ALLOWED.
- PROVIDE JOIST/TRUSS BRIDGING AS PER MANU-
FACTURER'S SPECIFICATION.
- PROVIDE SOLID BLOCKING AT JOIST/TRUSS
BEARING TYPICAL UNO.
- PROVIDE 1/8" GAP ON ROOF DECK PLYWOOD
OR FOLLOW MANUFACTURER'S SPECIFICATION.
- SEE STANDARD DETAIL FOR MULTI-STUDS TO
WOOD BEAM/HEADER CONNECTION TYPICAL.
- SHEAR WALLS SHOWN ARE BELOW FRAMING
LEVEL. COORDINATE WITH FRAMING PLANS.

HEADER SCHEDULE

MARK	SIZE	END BRG.	REMARKS
HDR-1	(3)2x6	(2)2x6	
HDR-2	(3)2x8	(2)2x6	OR (3) 3/4x5 1/2 LVL
HDR-3	(3)2x10	(2)2x6	OR (3) 3/4x7 1/4 LVL
HDR-4	(3)2x12	(2)2x6	OR (3) 3/4x9 1/2 LVL
HDR-5	5 1/8x12 GLB	(3)2x6	OR (3) 3/4x11 7/8 LVL
HDR-6	(2)2x6	(2)2x4	
HDR-7	(2)2x8	(3)2x4	OR (2) 3/4x5 1/2 LVL
HDR-8	(2)2x10	(3)2x4	OR (2) 3/4x7 1/4 LVL
HDR-9	(2)2x12	(3)2x4	OR (2) 3/4x9 1/2 LVL
HDR-10	3 1/8x12 GLB	(4)2x4	OR (2) 3/4x11 7/8 LVL

NOTES:

- GLULAM BEAMS SHALL BE COMBINATION SYMBOL 24F-V4 FOR
REGULAR BEAM AND 24F-V8 FOR CANTILEVERED BEAM TYPICAL.
- ALL GLULAM BEAMS TO BE ZERO CAMBER BEAMS UNO.
- ALL MULTI-MEMBER BEAMS & STUDS SHALL BE NAILED TOGETHER
w/(2) ROWS 16d @ 6" O.C. BOTH SIDES TYPICAL.

NUMBER OF KING STUDS ON EXTERIOR WALLS:
(FOR INTERIOR WALLS, ONE KING STUD TYP.)
ONE KING STUD FOR OFNG. 2'-0" TO 5'-0"
TWO KING STUDS FOR OFNG. 5'-0" TO 10'-0"
THREE KING STUDS FOR OFNG. 10'-0" TO 15'-0"
FOUR KING STUDS FOR OFNG. 15'-0" TO 20'-0"

SHEARWALL SCHEDULE

MARK	PLYWOOD	EDGE NAILING	INTER. NAILING	BOTTOM PLATE	NAILING THRU FLOOR	PANEL EDGE STUD	ASB BLKG. TO TOP OF FLOOR WHERE DRAG OCCURS
SW1	1/2" (C-D, C-C)	8d @ 6" O.C.	8d @ 12" O.C.	2xPL.	16d @ 6" O.C.	--	@ 28" O.C.
SW2	1/2" (C-D, C-C)	8d @ 4" O.C.	8d @ 12" O.C.	2xPL.	3/4" AB. x 10" @ 48" O.C.	--	@ 18" O.C.
SW3	1/2" (C-D, C-C)	8d @ 3" O.C.	8d @ 12" O.C.	2xPL.	1/4" LAG BOLTS x5" @ 12" O.C.	--	@ 14" O.C.
SW4	1/2" (C-D, C-C)	8d @ 2" O.C.	8d @ 12" O.C.	2xPL.	1/4" LAG BOLTS x5" @ 9" O.C.	2xBLKG. MIN.	@ 11" O.C.
SW5	DBL 1/2" (C-D-C)	8d @ 4" O.C.	8d @ 12" O.C.	2xPL.	3/4" AB. x 10" @ 24" O.C.	3xSTUDS MIN.	@ 9" O.C.
SW6	DBL 1/2" (C-D-C)	10d @ 3" O.C.	10d @ 12" O.C.	2xPL.	1/4" LAG BOLTS x5" @ 6" O.C.	2xBLKG. MIN.	@ 7" O.C.

NOTE: FOR DOUBLE SIDED PLYWOOD SHEAR WALLS, THE PANEL JOINTS ON BOTH FACES TO BE OFFSET TO
FALL ON DIFFERENT STUDS TYPICAL.
1/2" (C-D-C) FLUD CAN BE SUBSTITUTED BY 1/16" OSB TYP. UNO.
FOR SW4, FRAMING AT PANEL EDGES TO BE 3xSTUD AND NAILS TO BE STAGGERED TYP.
WHERE LAG BOLTS TO BE USED, THE RM JOIST OR JOIST BLOCKING TO BE MIN. 3x MEMBER TYP.
MIN. DBL. JOISTS OR FBI TO SUPPORT SHEAR WALL ABOVE IF NO BEAM IS CALLED OUT TYP. UNO.

HOLDOWN SCHEDULE

MARK	TYPE	END STUD	ANCHOR BOLT	LOCATION
HDN1	M5T3T	(2)2xSTUDS MIN.	--	FLOOR TO FLOOR
HDN2	M5T60	(2)2xSTUDS MIN.	--	FLOOR TO FLOOR
HDN3	DBL. M5T60	(4)2xSTUDS MIN. OR 6x6	--	FLOOR TO FLOOR
HDN4	HD12	(4)2xSTUDS MIN. OR 6x6	--	FLOOR TO FLOOR
HDN5	HDU2/HDC5/HTT4 STDH140T14R	(2)2xSTUDS MIN.	SD52.5/55TB16	FOUNDATION
HDN6	HDU5/HD17 STDH140T14R	(2)2xSTUDS MIN.	SD52.5/55TB24	FOUNDATION
HDN7	HDU8/HDQ8	(3)2xSTUDS MIN.	SD52.5/55TB28	FOUNDATION
HDN8	HDU11/HDQ8	(3)2xSTUDS MIN.	SD52.5/55TB30	FOUNDATION
HDN9	HDU14/HD12	(3)2xSTUDS MIN.	SD52.5/55TB30	FOUNDATION

NOTE: SAME SIZE EPOXY BOLTS CAN BE USED AS SUBSTITUTION
OF 55TB5 ANCHOR BOLTS TYP.
SEE SIMPSON'S FOR MIN. EMBEDDED LENGTH.

LVL NAILING/BOLTING SCHEDULE:
ALL NAILS AND BOLTS ARE 2" FROM T4B

- (2) 3/4"x5 1/2" LVLs, (2) 16d @ 12" O.C.
- (2) 3/4"x7 1/4" LVLs, (3) 16d @ 12" O.C.
- (2) 3/4"x9 1/2" LVLs, (4) 16d @ 6" O.C.
- (2) 3/4"x11 7/8" LVLs, (5) 16d @ 6" O.C.
- (2) 3/4"x16" LVLs, (6) 16d @ 6" O.C.
- (2) 3/4"x18" LVLs, (7) 16d @ 6" O.C.
- (3) 3/4"x5 1/2" LVLs, (2) 16d @ 12" O.C. E.S.
- (3) 3/4"x7 1/4" LVLs, (3) 16d @ 12" O.C. E.S.
- (3) 3/4"x9 1/2" LVLs, (4) 16d @ 6" O.C. E.S.
- (3) 3/4"x11 7/8" LVLs, (5) 16d @ 6" O.C. E.S.
- (3) 3/4"x16" LVLs, (6) 16d @ 6" O.C. E.S.
- (3) 3/4"x18" LVLs, (7) 16d @ 6" O.C. E.S.
- (4) 3/4"x7 1/4" LVLs, (2) 1/4" LAG BOLTS @ 24" O.C.
- (4) 3/4"x9 1/2" LVLs, (2) 1/4" LAG BOLTS @ 16" O.C.
- (4) 3/4"x11 7/8" LVLs, (3) 1/4" LAG BOLTS @ 12" O.C.
- (4) 3/4"x16" LVLs, (4) 1/4" LAG BOLTS @ 16" O.C. E.S.
- (4) 3/4"x18" LVLs, (5) 1/4" LAG BOLTS @ 12" O.C. E.S.
- (5) 3/4"x7 1/4" LVLs, (3) 1/4" LAG BOLTS @ 32" O.C. E.S.
- (5) 3/4"x9 1/2" LVLs, (3) 1/4" LAG BOLTS @ 24" O.C. E.S.
- (5) 3/4"x11 7/8" LVLs, (4) 1/4" LAG BOLTS @ 16" O.C. E.S.
- (5) 3/4"x16" LVLs, (5) 1/4" LAG BOLTS @ 16" O.C. E.S.
- (5) 3/4"x18" LVLs, (6) 1/4" LAG BOLTS @ 12" O.C. E.S.

INDICATES WINDOW OPENING
REINFORCEMENT, SEE DETAIL
12/813 TYP.

ALL DBL. 2x JOISTS ARE TO BE
CONNECTED w/GLUE AND
w/(5) 16d @ 6" O.C.
ALL DBL. TJI JOISTS ARE TO BE
CONNECTED w/STIFF. PL. GLUE
w/(5) 16d @ 6" O.C.
ALL MICRO-LAM DBL. BEAMS ARE
TO BE CONNECTED w/GLUE AND
(5) 16d @ 6" O.C.
ALL DBL. STUDS ARE TO BE
CONNECTED WITH (2) 10d @ 6"
O.C. STAGGERED

ICC ESR APPROVAL NUMBERS
TJI JOISTS: ICC ESR-1153
MICROLAMS: ICC ESR-2015
PARALLAMS: ICC ESR-2015

WOOD STUD WALLS ARE
TO BE 2x8 DF#2 GRADE
STUDS @ 16" O.C. OR
BETTER TYP. UNO.

WOOD STUD WALL SCHEDULE

MARK	2x4 DF#2 @ 16" O.C.	2x6 DF#2 @ 16" O.C.	2x8 DF#2 @ 12" O.C.	1 3/4x5 1/2 LVL @ 16" O.C.	1 3/4x5 1/2 LVL @ 12" O.C.	2x8 DF#2 @ 16" O.C.	1 3/4x1 1/4 LVL @ 16" O.C.
TYPE	NON-BEARING INTERIOR WALLS	BEARING INTERIOR WALLS	NON-BEARING EXTERIOR WALLS	BEARING EXTERIOR WALLS	NON-BEARING EXTERIOR WALLS	BEARING EXTERIOR WALLS	NON-BEARING EXTERIOR WALLS
HEIGHT	16'-0"	24'-0"	24'-0"	12'-0"	16'-0"	16'-0"	25'-0"

NOTES: 1. FOR THE CASE NOT FOUND HERE, INFORM ENG. FOR DESIGN.

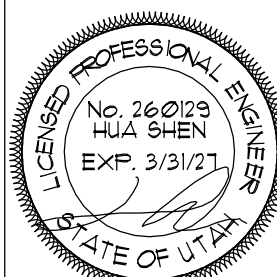
DIAPHRAGM SHEATHING NAILS OR
OTHER APPROVED SHEATHING
CONNECTORS SHALL BE DRIVEN 8"
THAT THEIR HEAD OR CROWN IS
FLUSH WITH THE SURFACE OF
THE SHEATHING.

CEILING JOIST SCHEDULE

2x4 STUD GRADE @ 24"/16" O.C.	2x6 DF#2 GRADE @ 24"/16" O.C.	2x8 DF#2 GRADE @ 24"/16" O.C.	REMARKS
11'/12'	16'/18'	22'/24'	

NOTES: FOR THE CASE NOT FOUND HERE, INFORM ENG. FOR DESIGN.

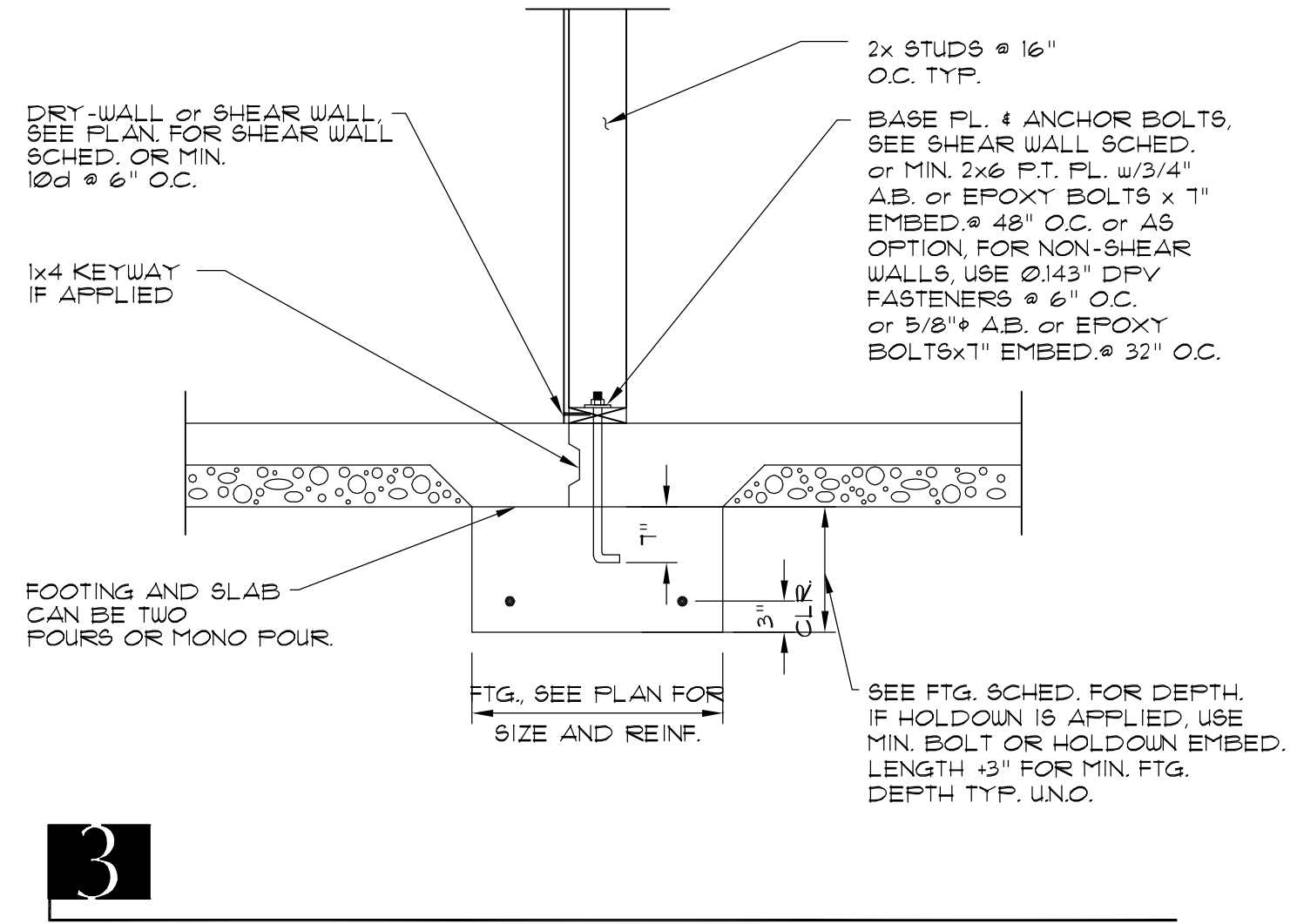
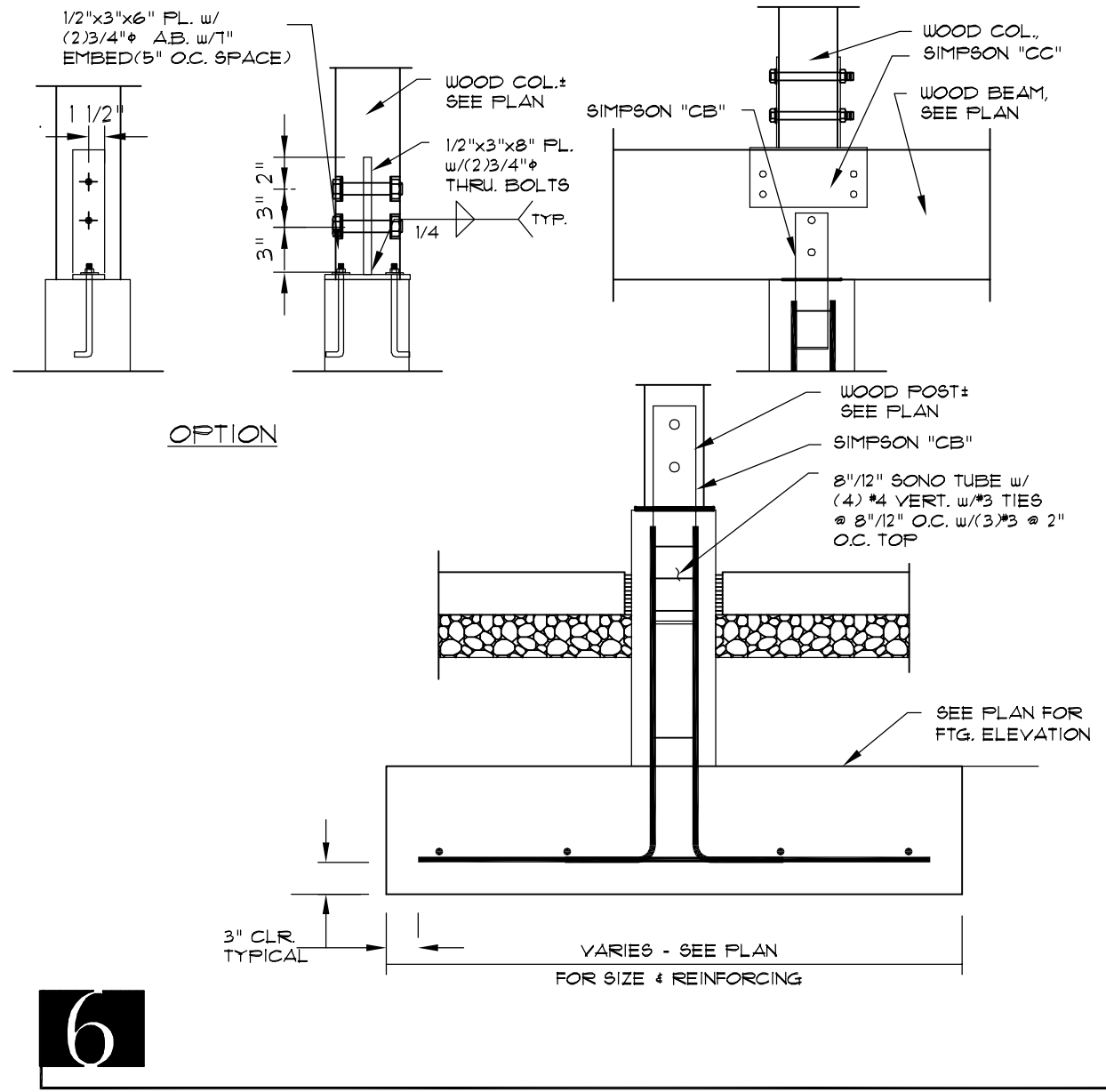
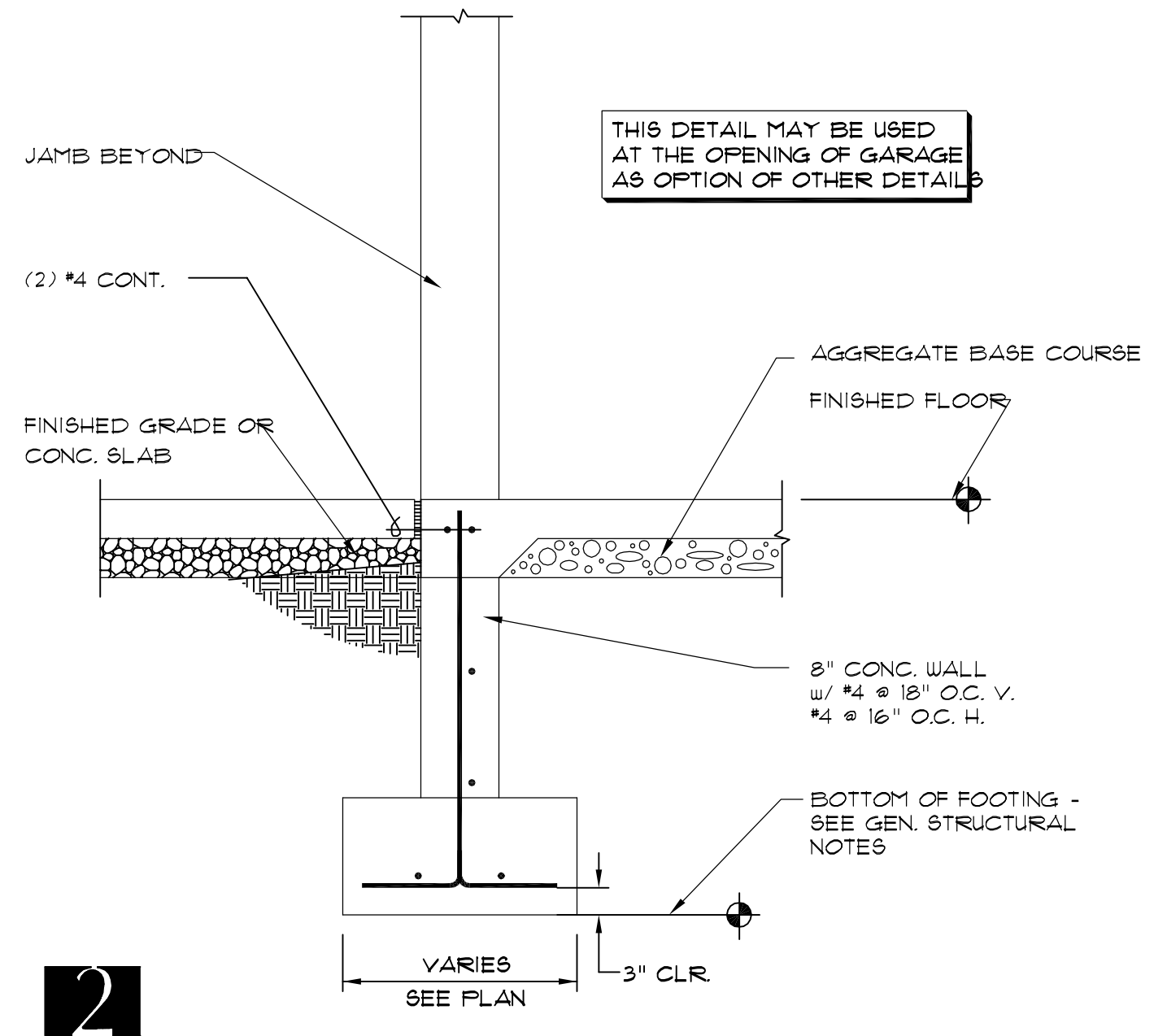
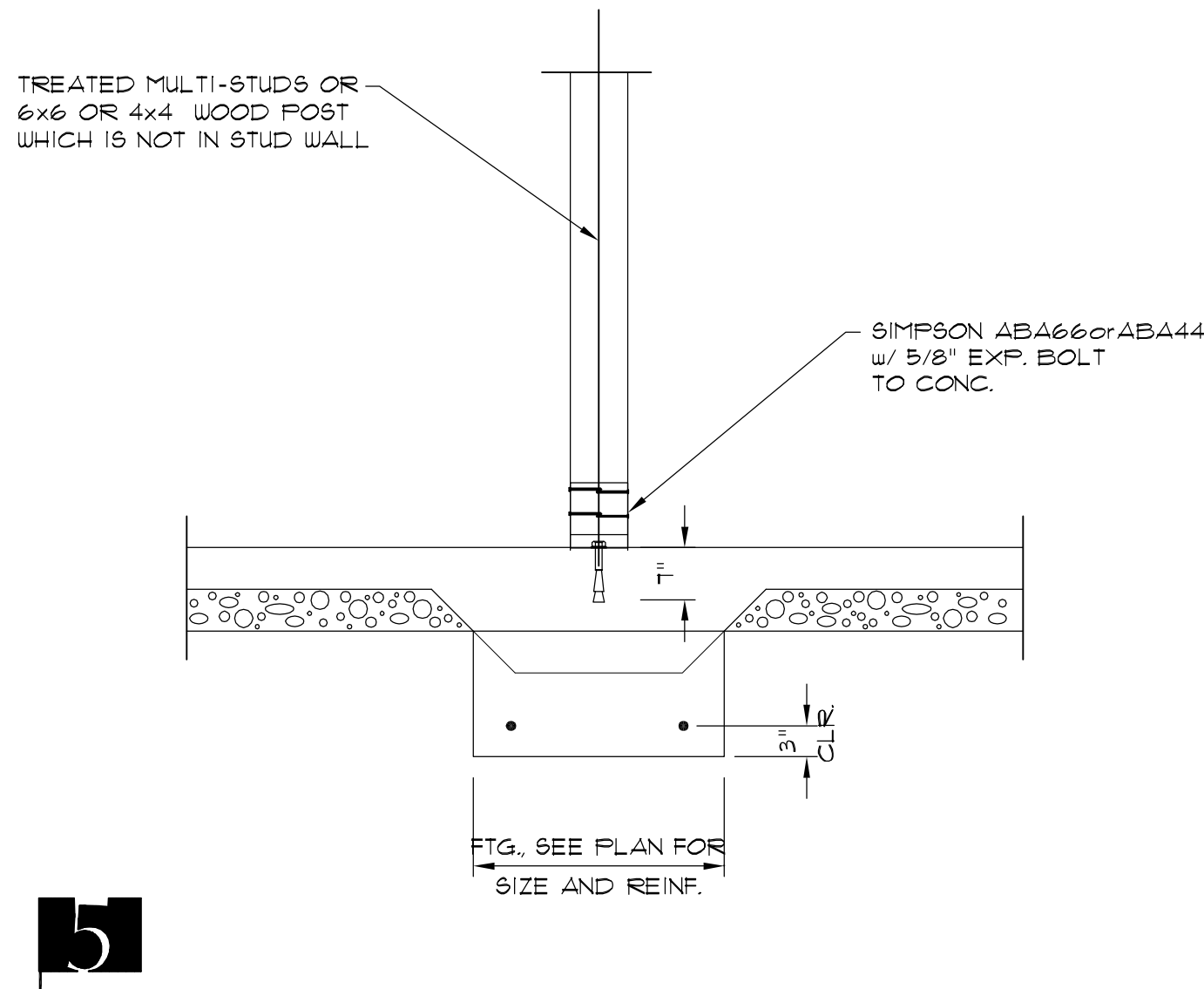
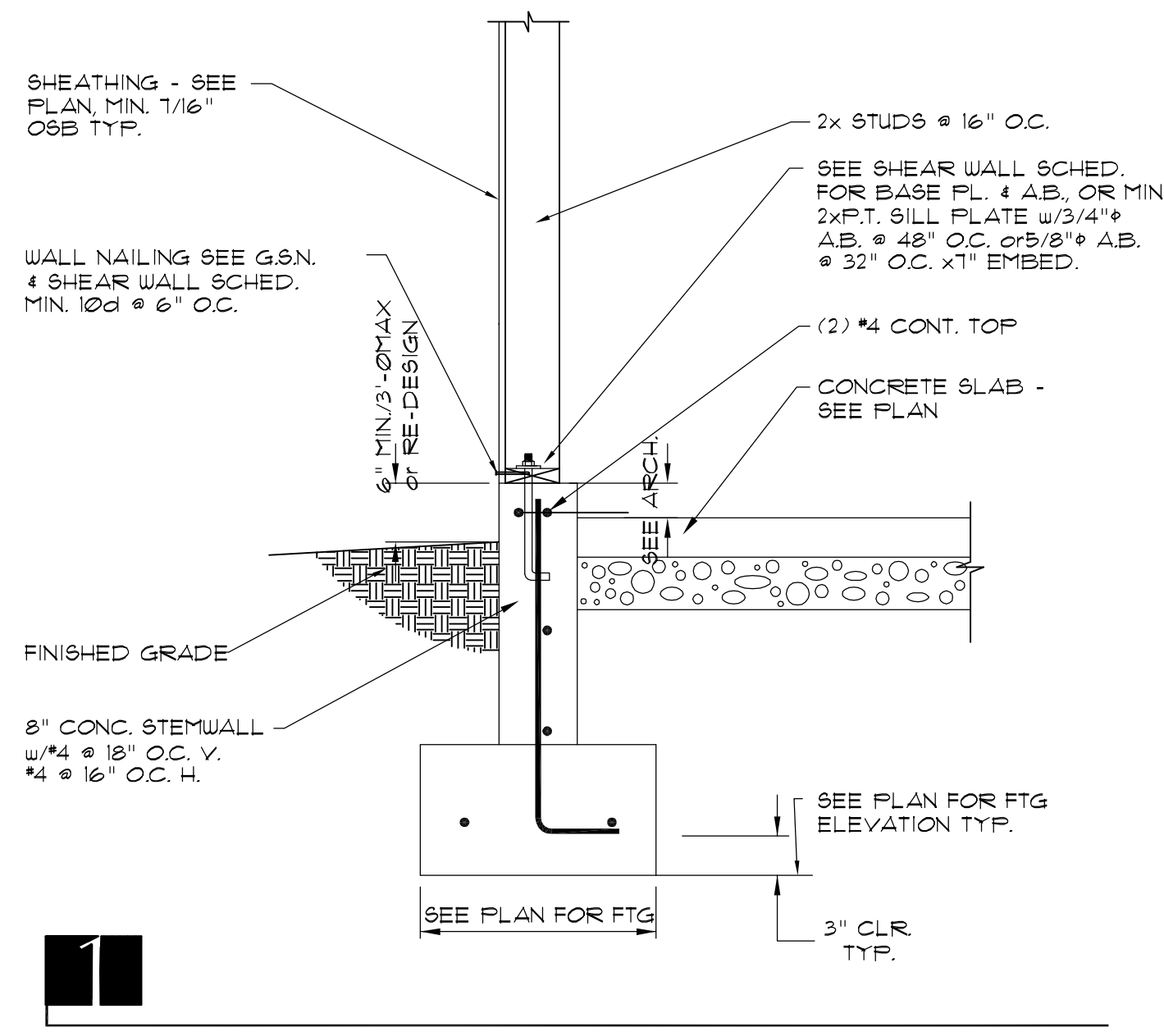
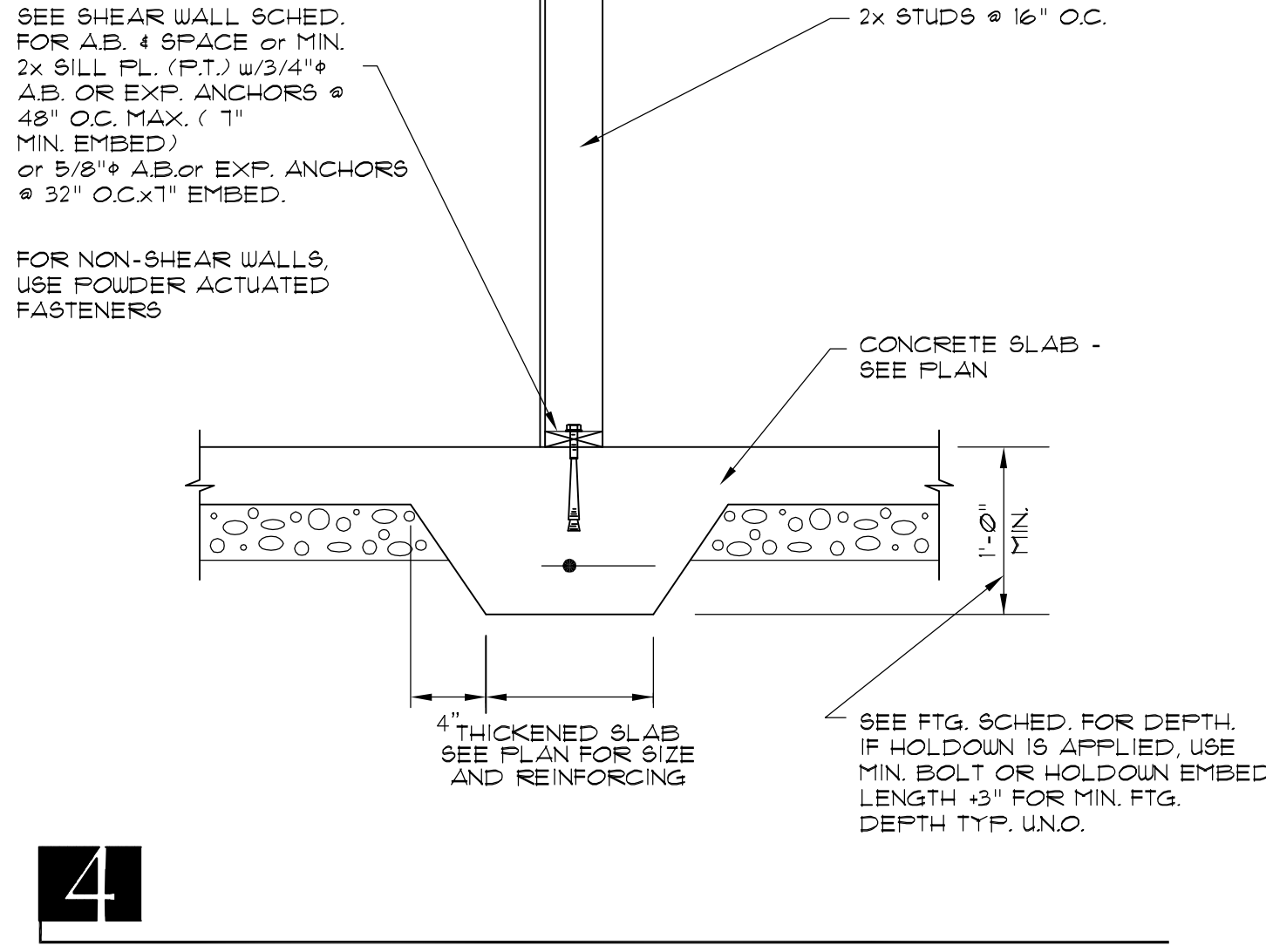
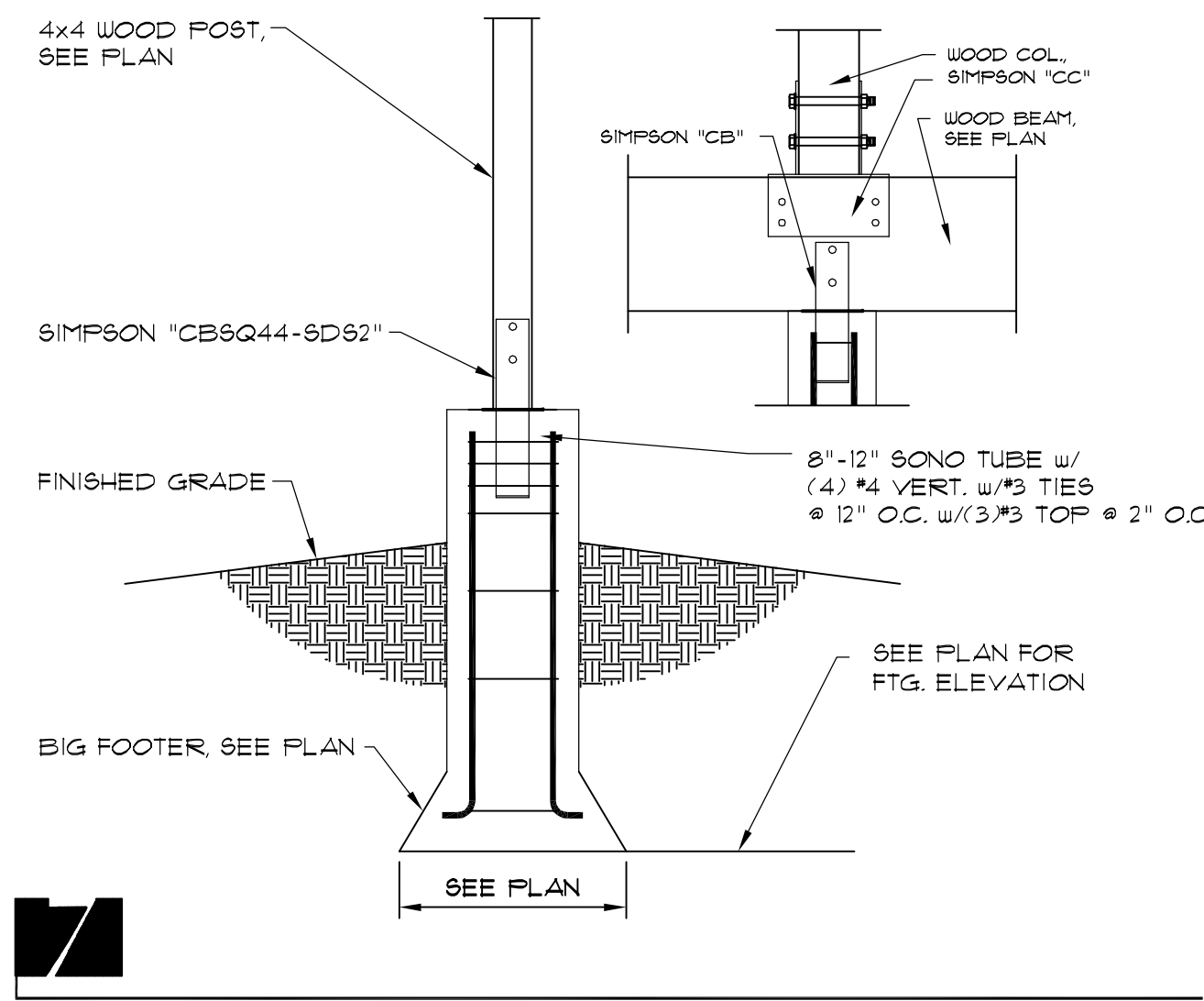
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Check		Drawn		
Project Manager		Drawn		
Client	KEP ARCHITECTS	Drawn		
Location	SALT LAKE CITY, UTAH 84105	Drawn		
Company	GEURTLER ADU	Drawn		
Project Name	685 EAST 1825 SOUTH BOUNTIFUL, UTAH	Drawn		
Sheet No.		Drawn		
Scale		Drawn		



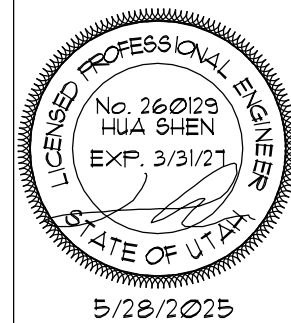
5/28/2025

GEURTLE ADU
685 EAST 1825 SOUTH
BOUNTIFUL, UTAH

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Drawing No.					
Project Name		Client Name		CAD File Name	
KPI ARCHITECTS 334 S. 3000 E. SALT LAKE CITY, UTAH 84105		GEURTLE ADU 685 EAST 1825 SOUTH BOUNTIFUL, UTAH		4871 - (containing) ut 84105 millwright ut 84105	
No.		Date		Issue Notes	



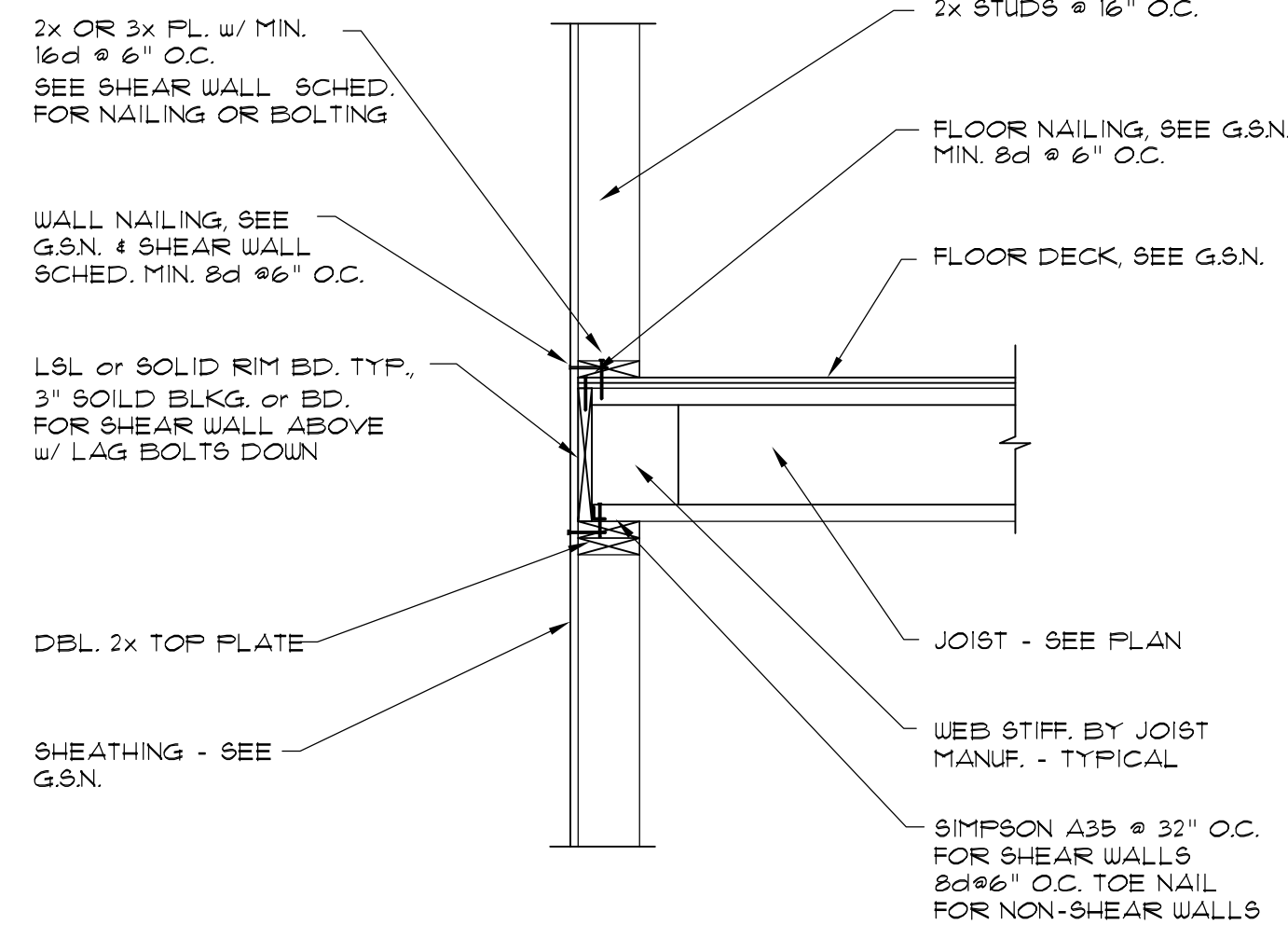
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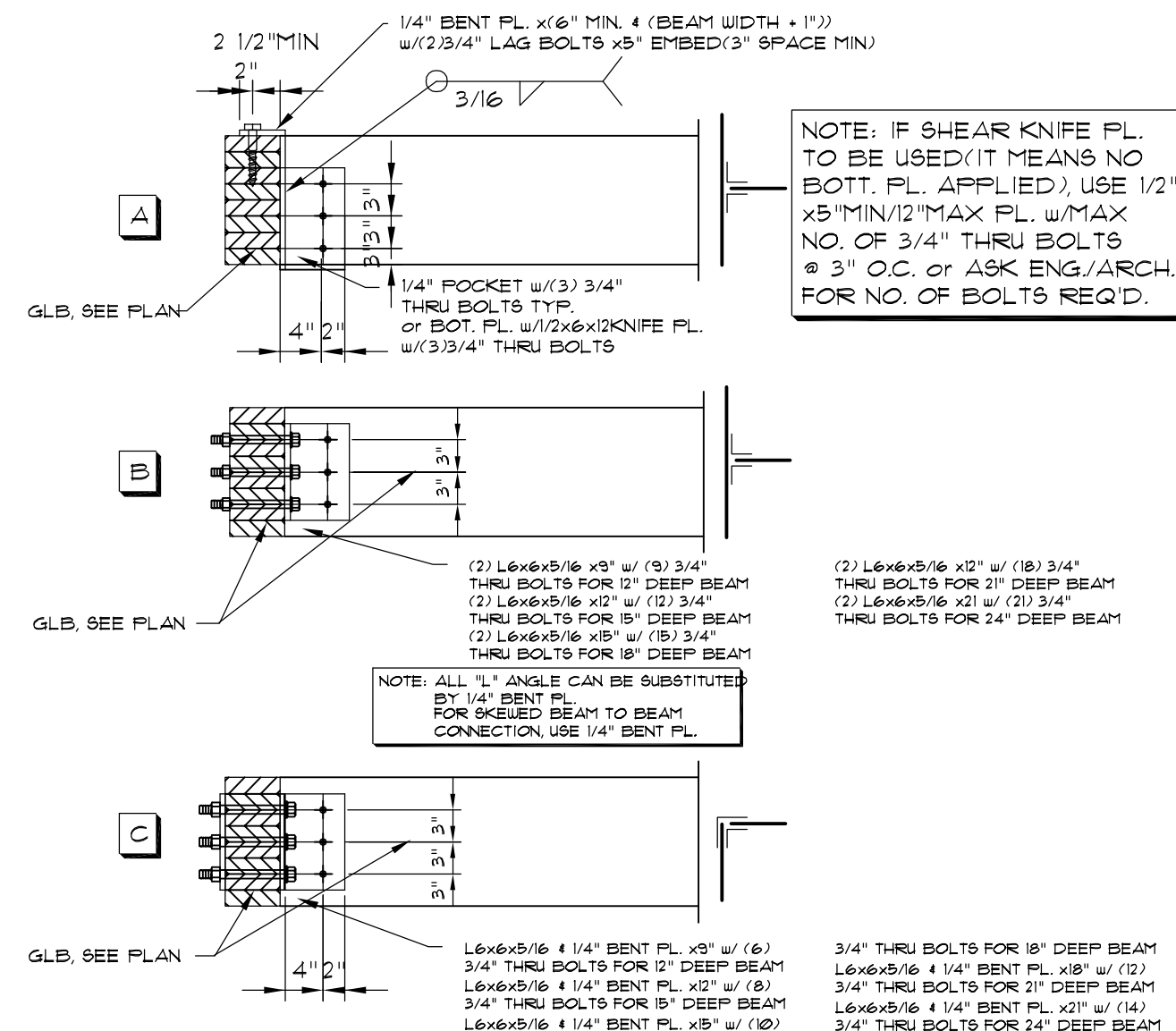
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685 EAST 1825 SOUTH
BOUNTIFUL, UTAH

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			Date	Project Title	Drawn Title
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SALT LAKE CITY, UTAH 84105		SALT LAKE CITY, UTAH 84105		SALT LAKE CITY, UTAH 84105	
Shen Engineering, Inc.		Shen Engineering, Inc.		Shen Engineering, Inc.	
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Midvale, UT 84045		Midvale, UT 84045		Midvale, UT 84045	

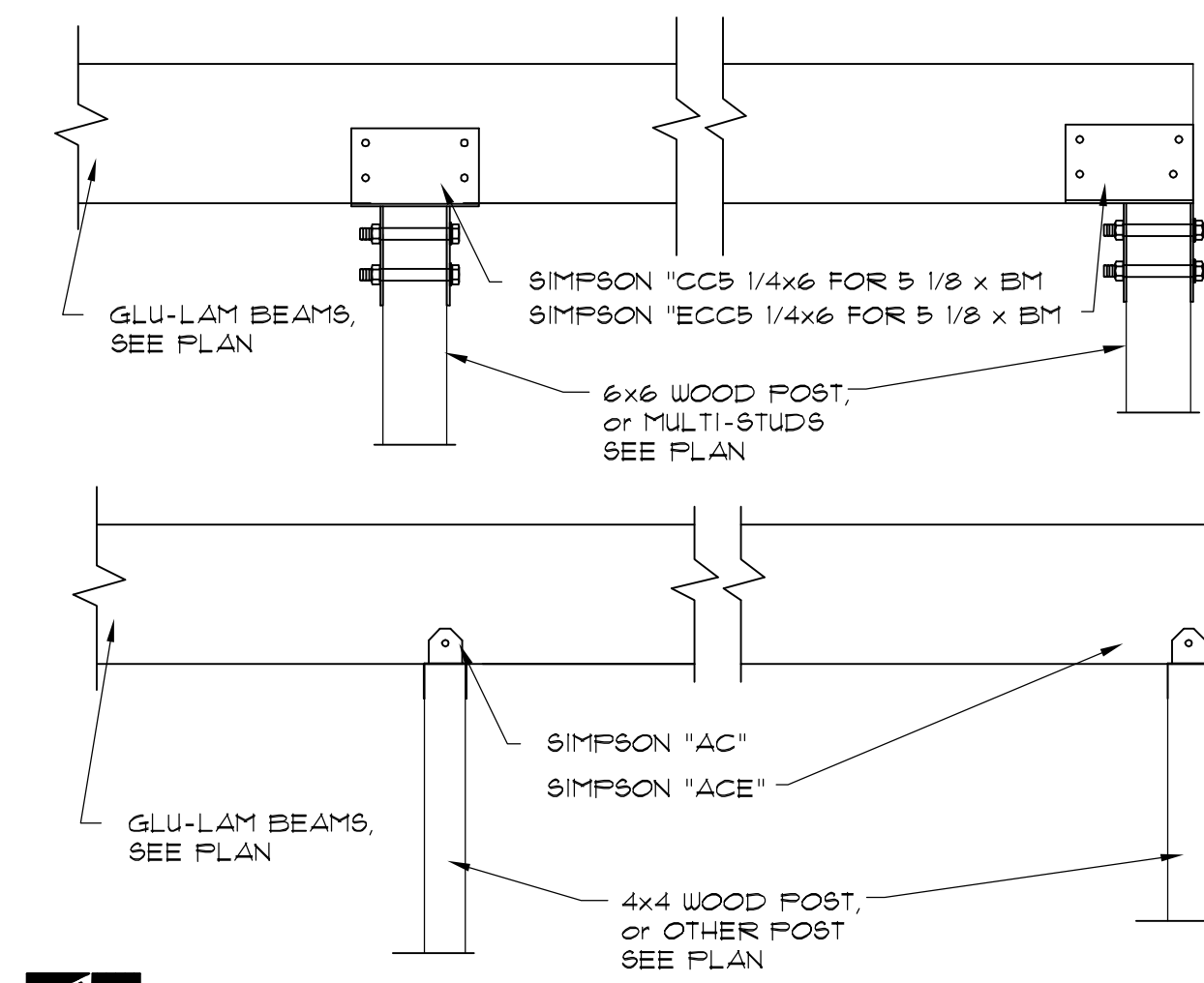
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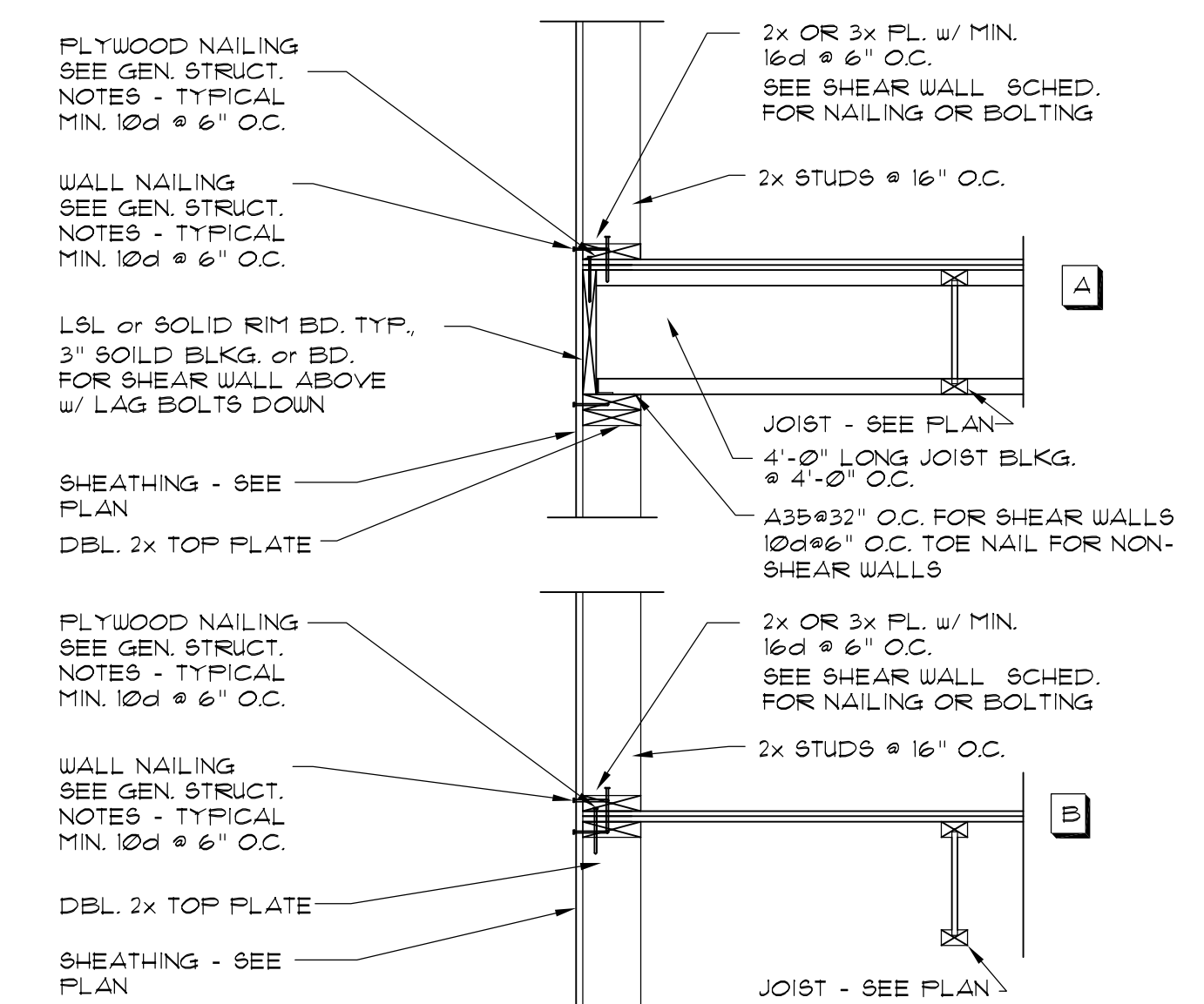
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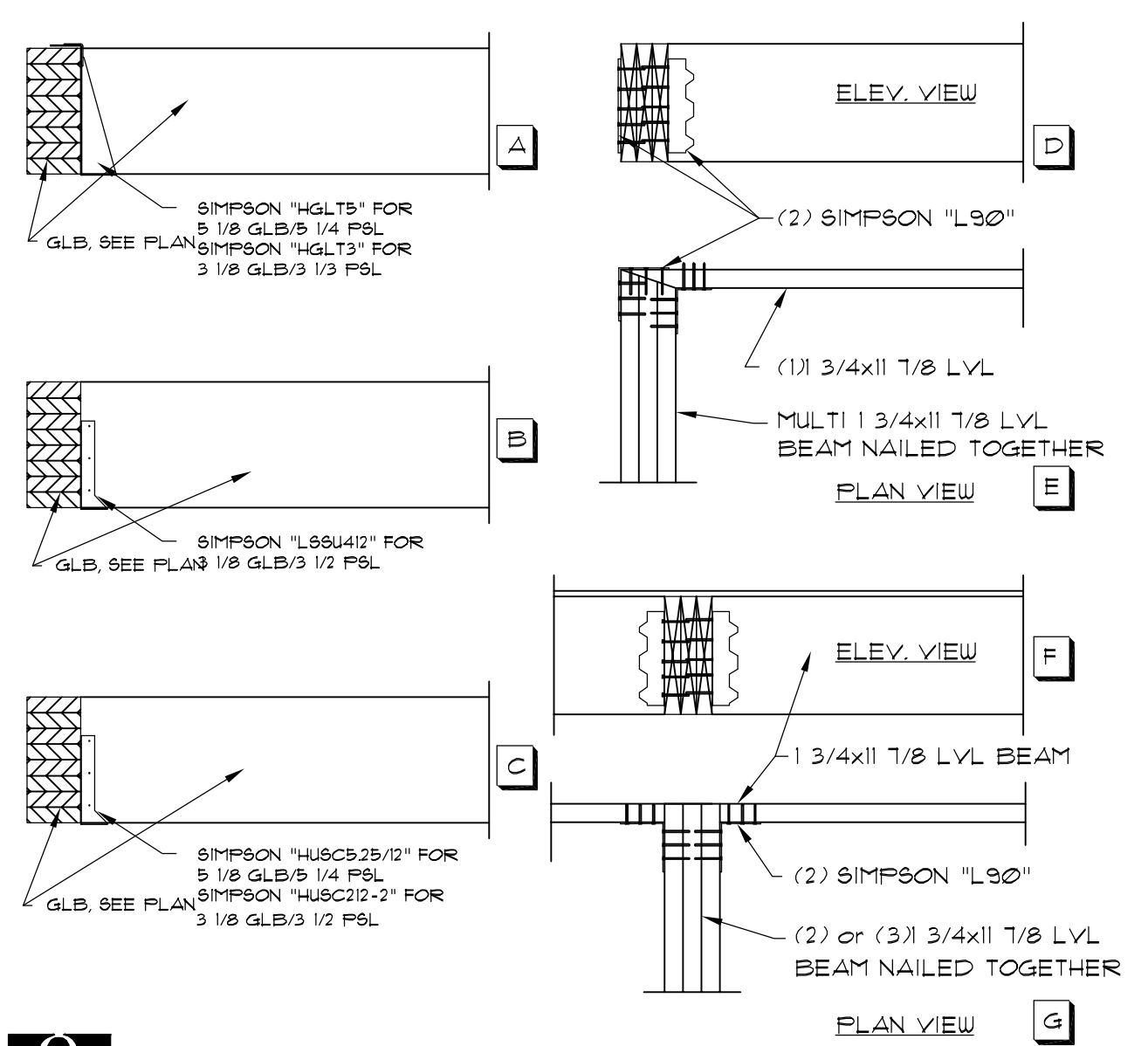
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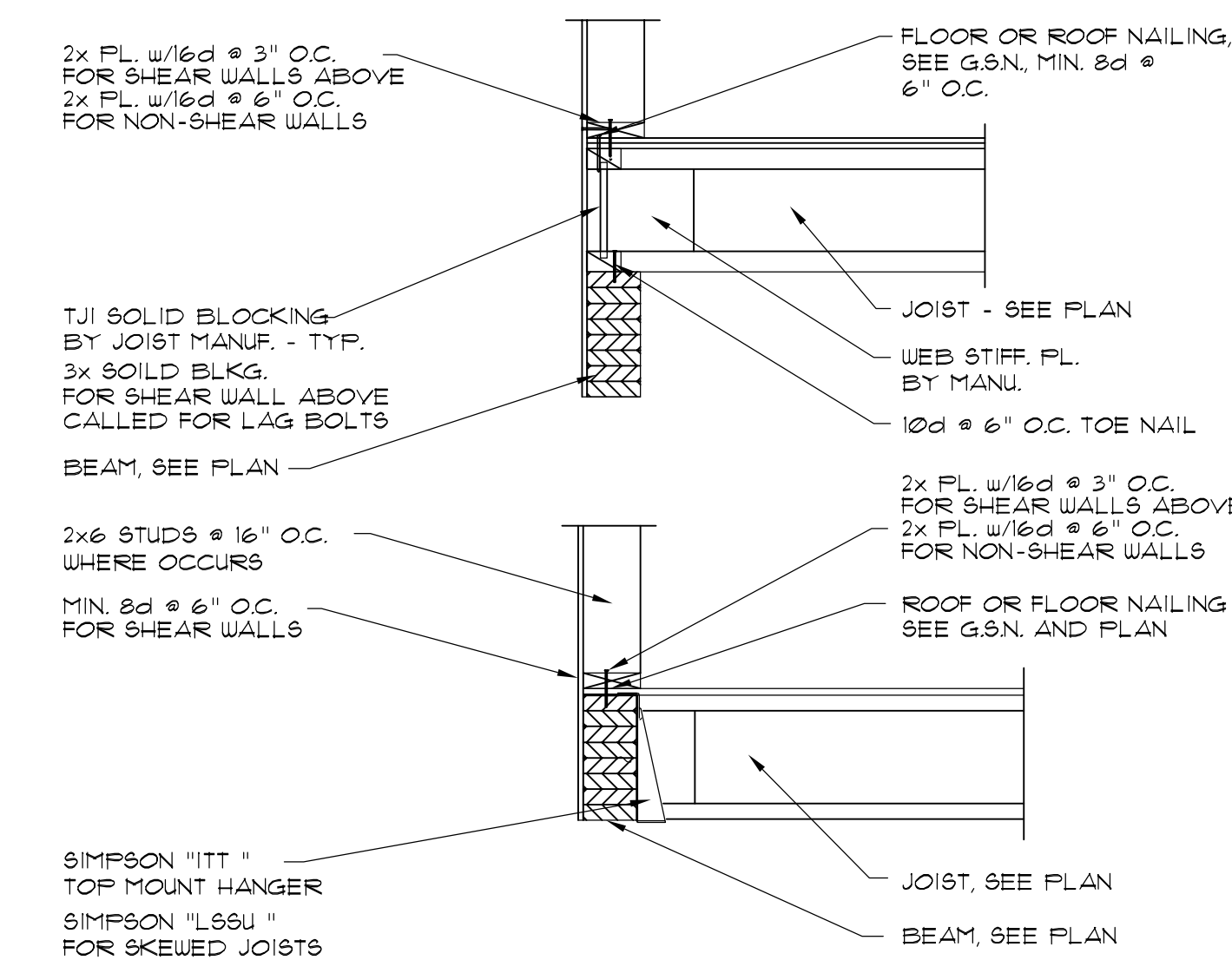
1 TYP. BEAM TO WOOD POST CONN.



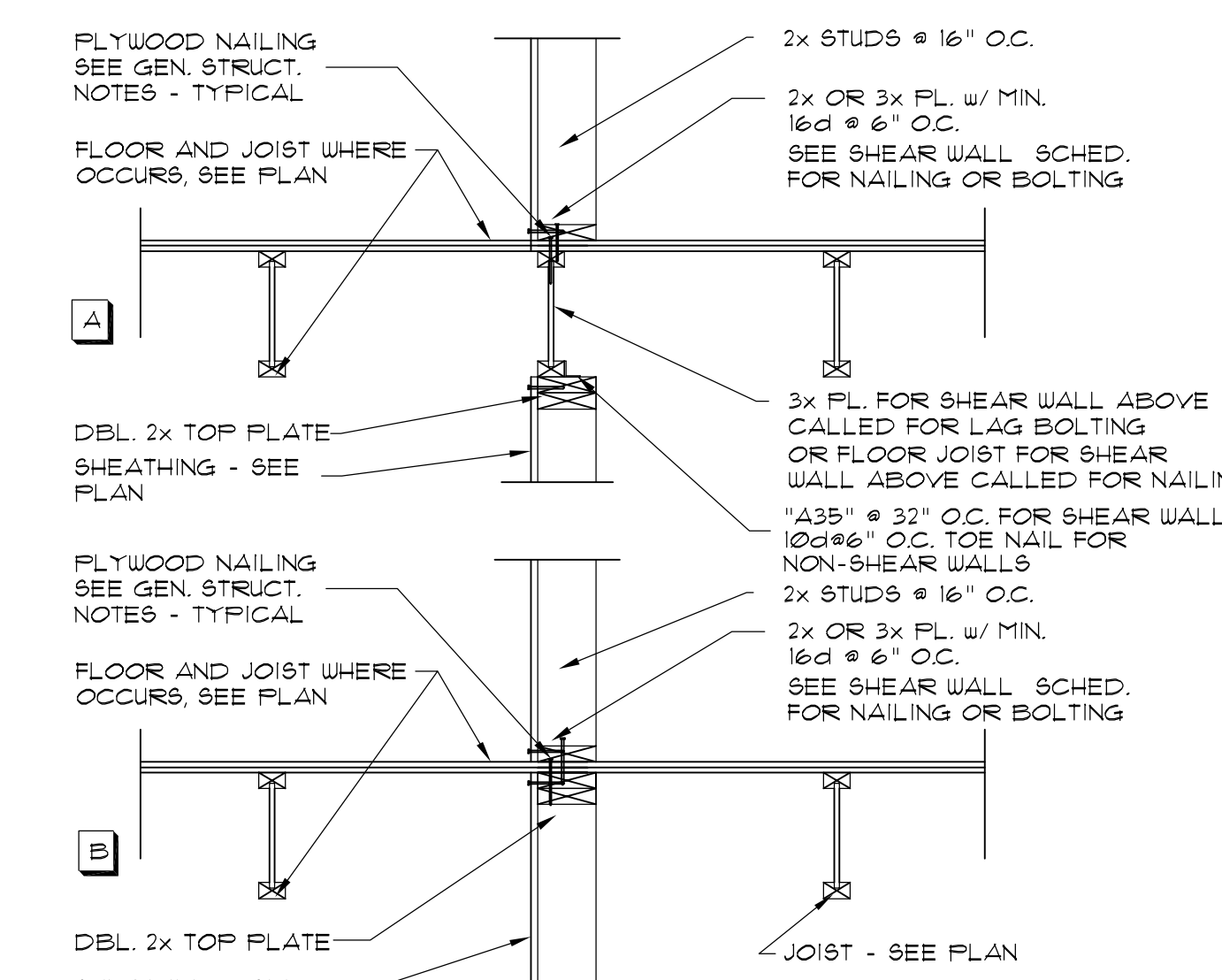
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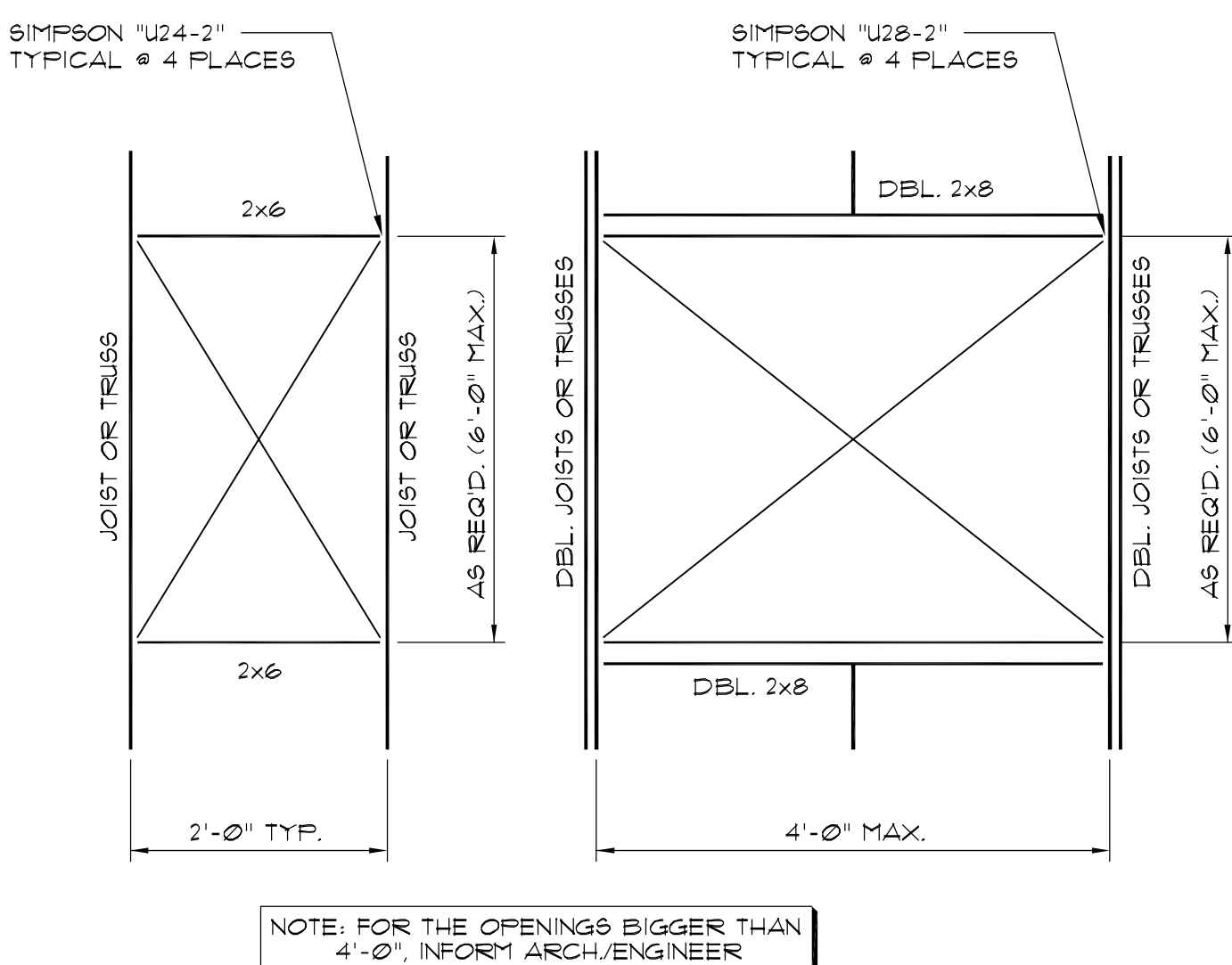
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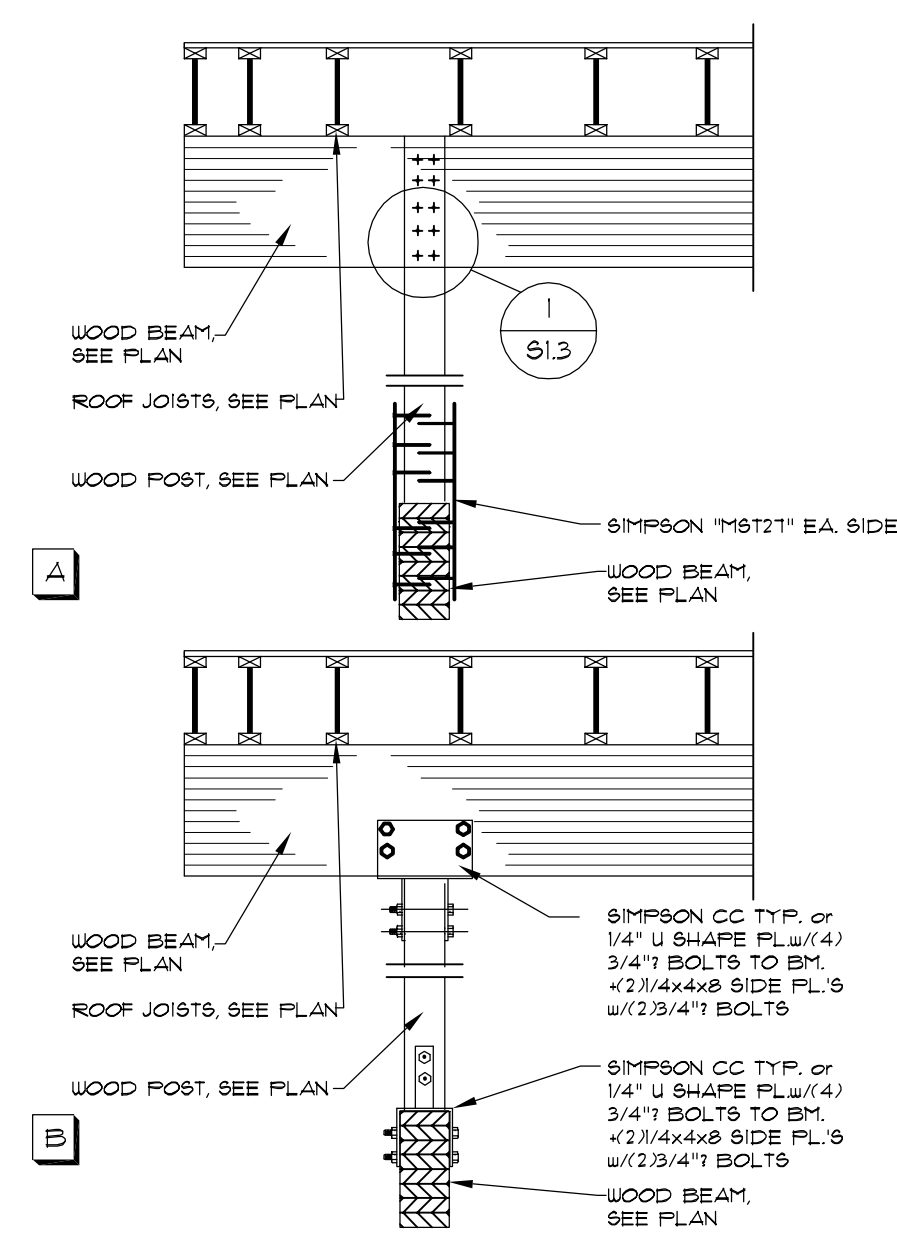
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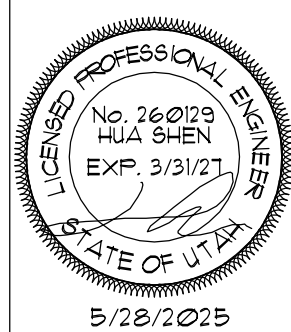
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9 TYPICAL OPENING FRAMING



6



GEURTLER ADU
685 EAST 1825 SOUTH
BOUNTIFUL, UTAH

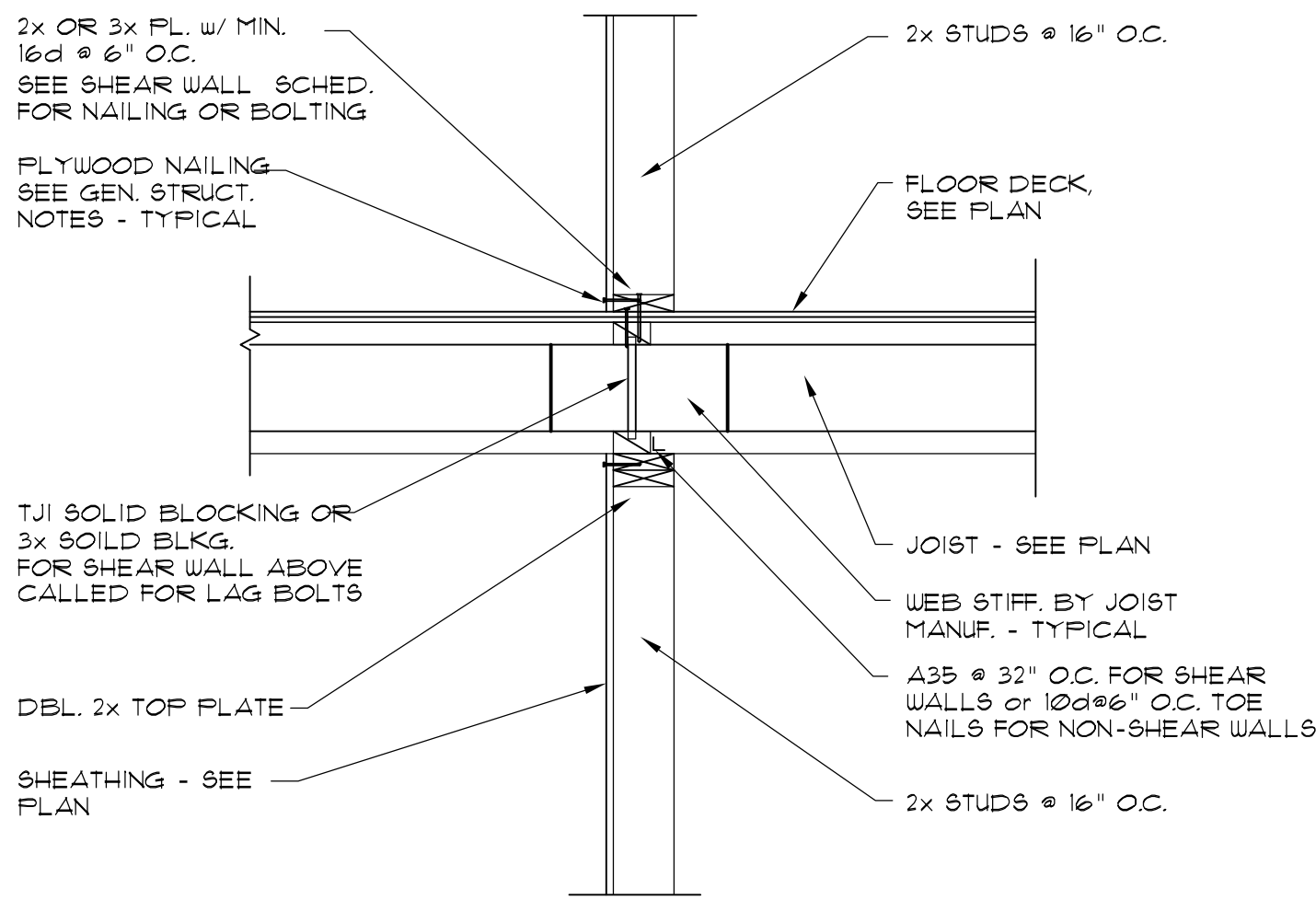
No.	Date	Issue Notes

Project ID: BE15086	Project Manager
Scale	Drawn By
Drawing No.	Reviewed By
Date	Check
CAD File Name	CAD File Name

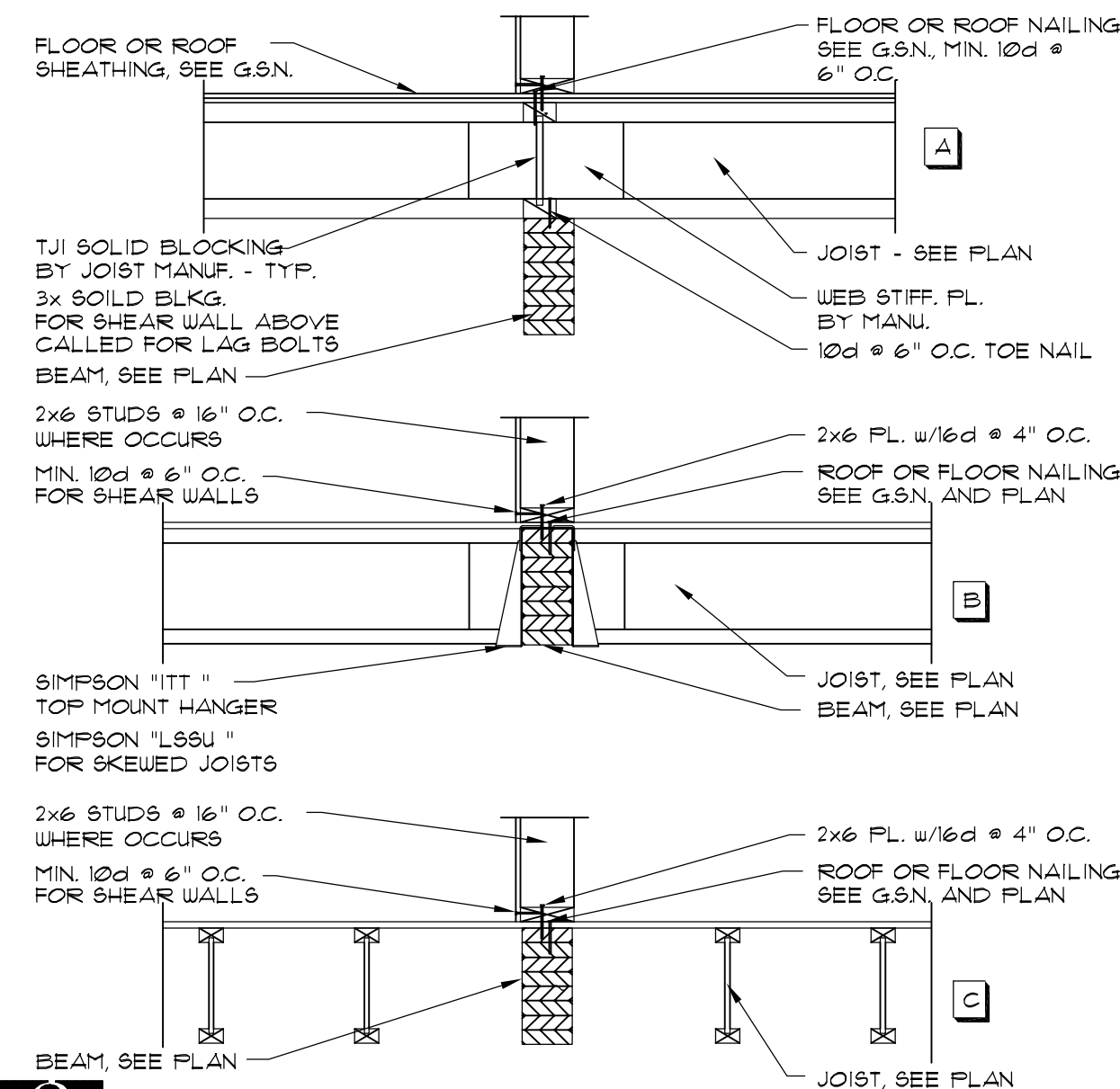
Design Firm	KP2 ARCHITECTS 1234 S. 900 E. SALT LAKE CITY, UTAH 84105
Consultant	SHEN ENGINEERS, LLC Structural/General Consultants 4871 N. Fortuna Way Midvale, UT 84047

Project Title	GEURTLER ADU 685 EAST 1825 SOUTH BOUNTIFUL, UTAH
Drawn By	
Scale	
Drawing No.	

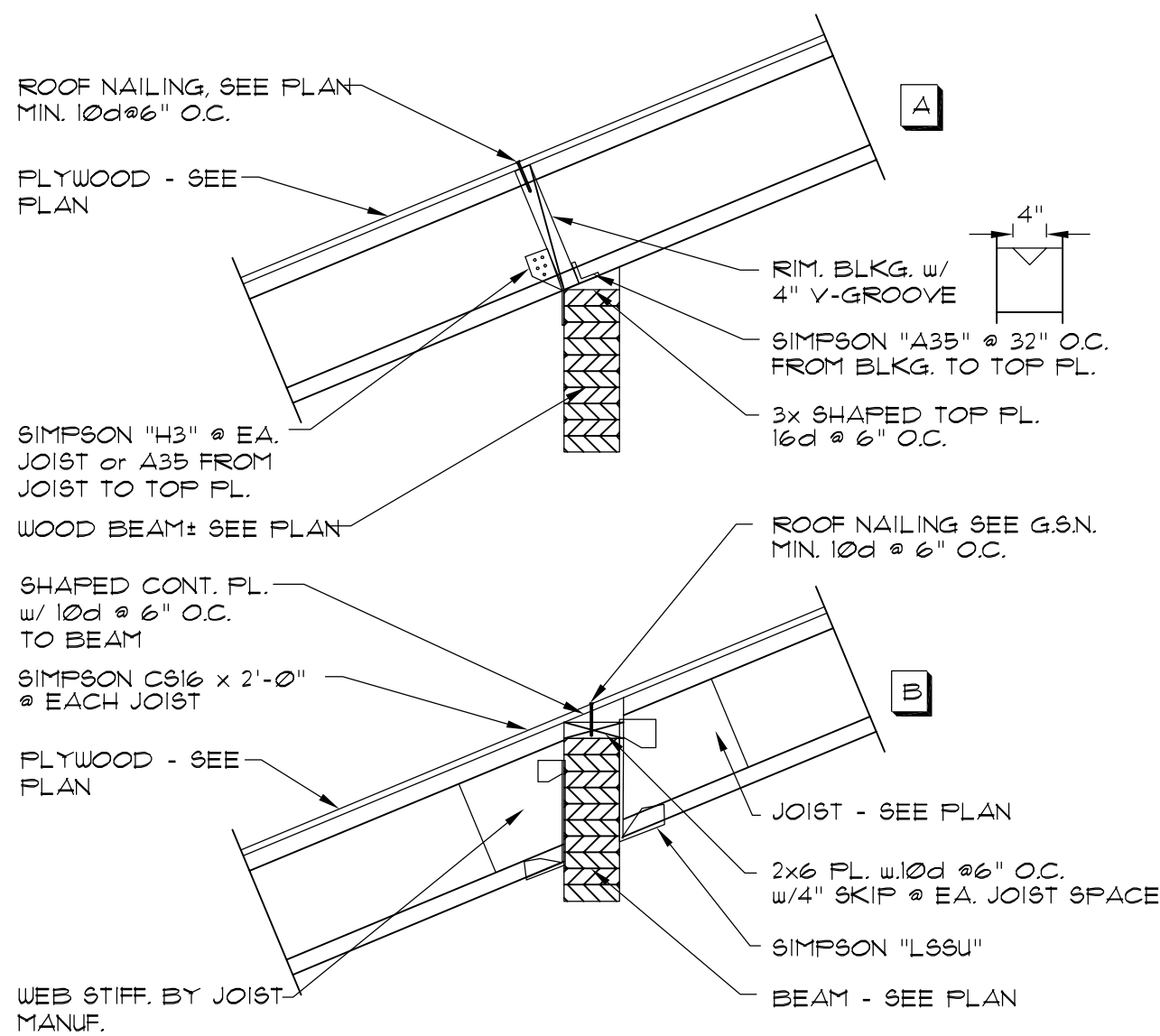
S4.2



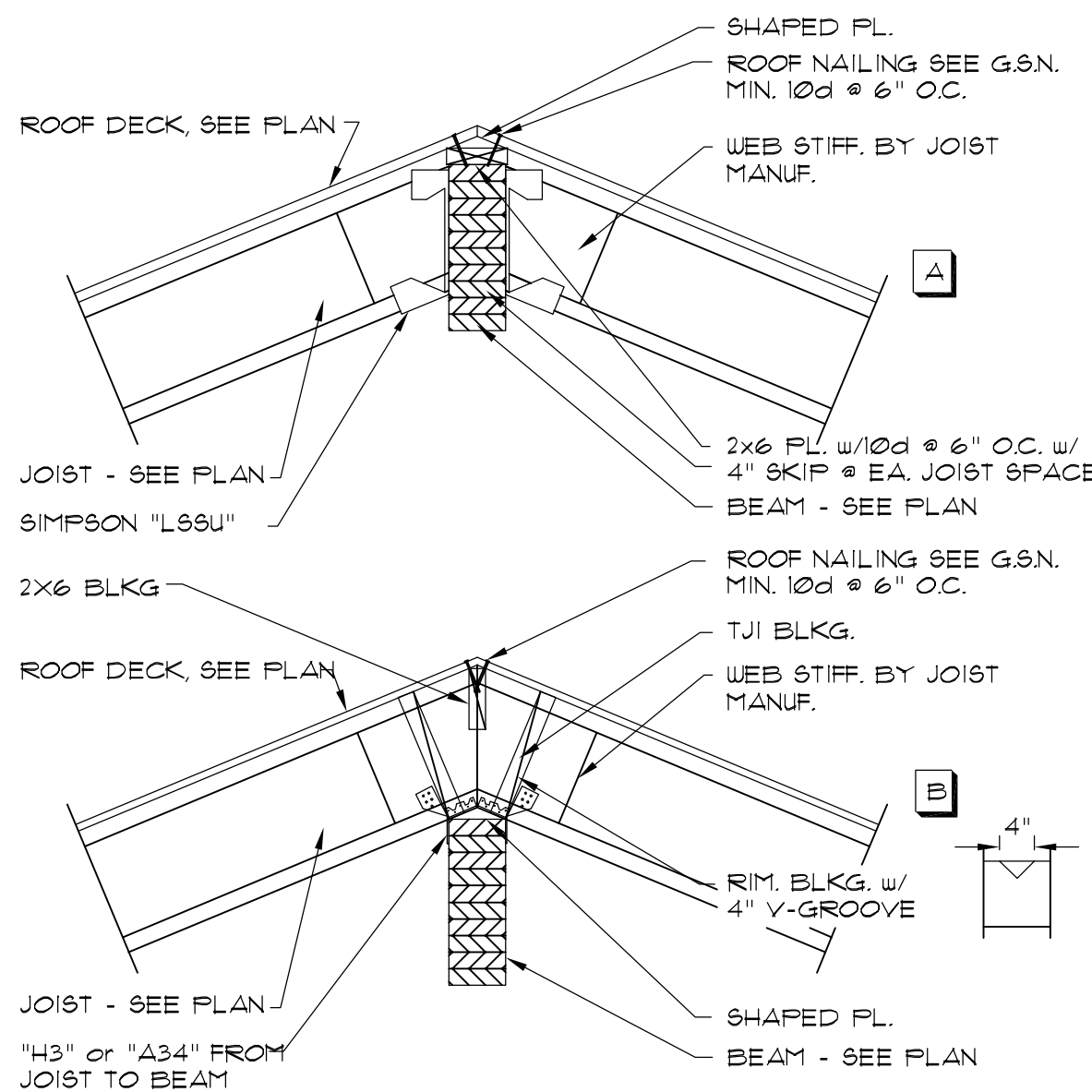
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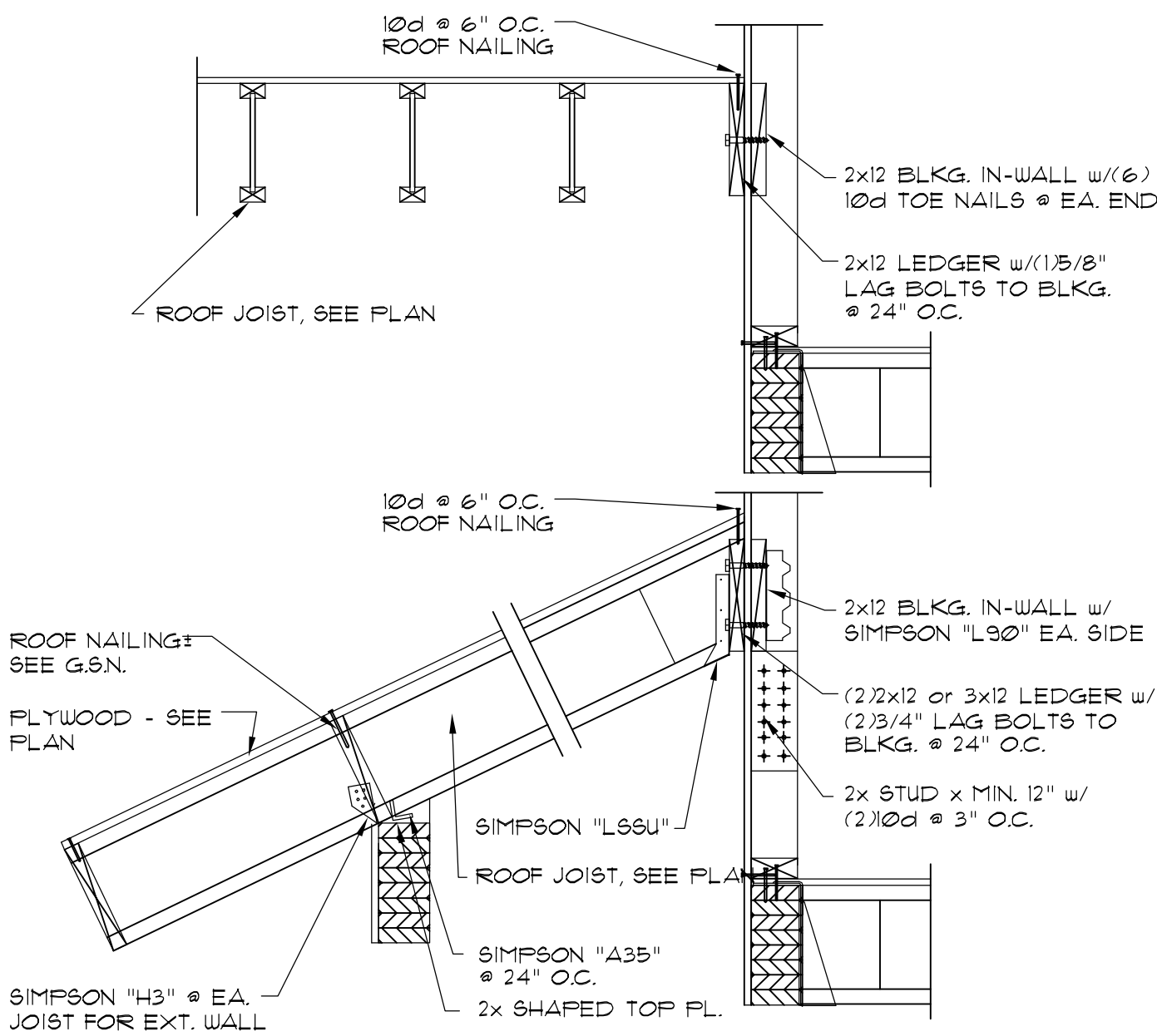
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5



6



10



Project Title	Design Firm	Project Manager	Project ID
Geurtler ADU	KP2 ARCHITECTS 1234 S 9300 E SALT LAKE CITY, UT 84105	Drain By	5675066
Draw Title	Comments	Revised By	Scale
	Shen Engineers, Inc. Structural Engineering 4875 S. 1400 E. Suite 100 Salt Lake City, UT 84141	Date	Drawing No.

GENERAL NOTES

1. The General Contractor (GC) shall reference CON-STD-10159, "Tower Modification Construction Specifications", as a continuation of the following General Notes. The GC shall keep a printed or electronic copy of this document with the Structural Design Drawings (SDD) at all times, in a location accessible to all Contractor Personnel, and shall ensure that all Contractor Personnel are aware of the information enclosed within the General Notes and CON-STD-10159.
2. The Contract Documents are the property of Crown Castle (Crown). They are provided to the GC and its Lower Tier Contractors and material suppliers for the limited purpose of use in completing the Work for this Site, and shall be kept in strict confidence and not disclosed to any third parties. The Contract Documents shall not be used for any other purpose whatsoever without the prior written consent of Crown.
3. Detail drawings, including notes and tables, shall govern over general notes and typical details, contact the Crown Point of Contact (POC) and Engineer of Record (EOR) for clarification as needed.
4. Do not scale drawings.
5. Any Work performed without a prefabrication mapping is done at the risk of the GC and/or fabricator. All dimensions of existing structural elements are assumed based on the available documentation and are preliminary until field-verified by the GC, unless noted otherwise (UNO). Where discrepancies are found, GC shall contact the Crown POC and EOR through RFI.
6. For this analysis and modification, the tower has been assumed to be in good condition without any structural defects, UNO. If the GC discovers any indication of an existing structural defect, contact the Crown POC and EOR immediately.
7. All construction means and methods, including but not limited to erection plans, rigging plans, climbing plans, and rescue plans, shall be the responsibility of the GC responsible for the execution of the Work contained herein, and shall meet ANSI/ASSE A10.48 (latest edition); federal, state, and local regulations; and any applicable industry consensus standards related to the construction activities being performed. All rigging plans shall adhere to ANSI/ASSE A10.48 (latest edition) and Crown standard CED-STD-10253, "Rigging Program", including the required involvement of a qualified engineer for class IV construction to certify the supporting structure(s) in accordance with the ANSITIA-322 (latest edition).
8. The structural integrity of the modification design extends to the complete condition only. The GC must be cognizant that the removal of any structural component of an existing tower has the potential to cause the partial or complete collapse of the structure. All necessary precautions must be taken to ensure structural integrity, including, but not limited to, engineering assessment of construction stresses with installation maximum wind speed and/or temporary bracing and shoring.
9. Aerial and underground utilities and facilities may or may not be shown on the drawings. The GC shall take every precaution to preserve and protect these items, which may include aerial or underground power lines, telephone lines, water lines, sewer lines, cable television facilities, pipelines, structures and other public and private improvements within or adjacent to the Work area. The responsibility for determining the actual on-site location of these items shall rest exclusively with the GC.
10. All manufacturer's hardware assembly instructions shall be followed, UNO. Conflicting notes shall be brought to the attention of the EOR and the Crown POC.

11. The GC shall fabricate all required items per the materials specified below, UNO on the detail drawing sheets. If the GC finds for any component that the materials have not been clearly specified, the GC shall submit an RFI to the EOR to confirm the required material.

All structural elements shall be new and shall conform to the following requirements, UNO:

Monopoles:

- Structural shapes and plates: ASTM A572 Grade 65 (FY = 65 KSI)
- Welding electrodes, SMAW: E80XX
- Welding electrodes, FCAW: E8XT-XX
- Welding electrodes, GMAW: ER80S-X

Self-Support and Guyed Towers:

- Structural shapes and plates: ASTM A572 Grade 50 (FY = 50 KSI)
- Welding electrodes, SMAW: E70XX
- Welding electrodes, FCAW: E7XT-XX
- Welding electrodes, GMAW: ER70S-X

All tower types:

- Steel angle: ASTM A572 Grade 50 (FY = 50 KSI)
- Solid rod: ASTM A36 (FY = 36 KSI)
- Pipe/tube (round): ASTM A500 Grade C (FY = 50 KSI)
- Pipe/tube (square): ASTM A500 Grade C (FY = 50 KSI)
- Bolts: ASTM F3125 Grade A325 Type 1
- U-bolts: ASTM A307 Grade A, or SAE J429 Grade 2
- Nuts: ASTM A563 Grade DH
- Washers: ASTM F436 Type 1
- Guy Wires: ASTM A475 Grade EHS
- Bridge Strand: ASTM A586 Grade 1

12. After fabrication, hot-dip galvanize all steel items, UNO. Galvanize per ASTM A123, ASTM A153/A153M, or ASTM A653 G90, as applicable. ASTM A490 bolts should not be hot-dip galvanized, but shall instead be coated with Magni 565 or EOR approved equivalent, per ASTM F2833.
13. Contractor Personnel shall not drill holes in any new or existing structural members, other than those drilled holes shown on structural drawings, without the approval of the EOR.
14. For a list of Crown-approved cold galvanizing compounds, refer to CON-STD-10149, "Tower Protective Coatings Guidelines".
15. All exposed structural steel as the result of this scope of work including welds (after final inspection of the weld by the CWI), field drilled holes, and shaft interiors (where accessible), shall be cleaned and two (2) coats cold galvanizing shall be applied by brush in accordance with CON-STD-10149, "Tower Protective Coatings Guidelines". Photo documentation is required to be submitted to the MI Inspector.
16. If removal of existing modifications is required per the modification scope, the GC shall clean and cold galvanize any existing empty bolt holes, UNO. If conditions unexpected, oversized, or slotted holes are found, the GC shall contact the EOR and Crown POC for guidance prior to proceeding with the modifications.
17. All work involving base plate grout scope items or resulting in disturbance of base plate grout shall reference ENG-STD-10323, "Base Plate Grout", and shall follow any Base Plate Grout Removal Notes contained herein.
18. If scope of modification involves bark removal or installation, the GC shall reference CED-SOW-10265, "Tree Concealment for Monopoles", as well as CED-STD-10395, "Installation Guidelines for Bark Surfaces".

19. If scope of modification involves concealment components including bracing, the GC shall reference CED-CAT-10398 "Monopole Concealed Decorative Structures (CDS) Approved Components". All new branch installations require tethering.
20. If scope of modification involves cathodic protection, the GC shall reference CED-SOW-10397, "Cathodic Protection Installation, Replacement, and Enhancement".
21. All tower grounding affected by the Work shall be repaired or replaced in accordance with OPS-STD-10090, "Tower Grounding", and OPS-BUL-10133, "Grounding Repair Recommendation".
22. If scope of modification requires removal or covering of tower ID lag, the lag must be replaced.
23. Any hardware removed from the existing tower shall be replaced with new hardware of equal size and quality, UNO. No existing fasteners shall be reused.
24. All joints using ASTM A325 or A490 bolts, U-bolts, V-bolts, and threaded rods shall be snug tightened, UNO.
25. A nut locking device shall be installed on all proposed and/or replaced snug tightened ASTM A325 or A490 bolts, U-bolts, V-bolts, and threaded rods.
26. All joints are bearing type connections UNO. If no bolt length is given in the Bill of Materials, the connection may include threads in the shear planes, and the GC is responsible for sizing the length of the bolt.
27. Blind bolts shall be installed per the installation specifications on the corresponding Approved Fastener sheets contained in CON-CAT-10300, "Monopole Standard Drawings and Approved Reinforcement Components".
28. If ASTM A325 or A490 bolts, and/or threaded rods are specified to be pre-tensioned, these shall be installed and tightened to the pretensioned condition according to the requirements of the RCSC Specification for Structural Joints Using ASTM High Strength Bolts.
29. All proposed and/or replaced bolts shall be of sufficient length such that the end of the bolt be at least flush with the face of the nut. It is not permitted for the bolt end to be below the face of the nut after tightening is completed.

CROWN CASTLE

THIS DRAWING IS COPYRIGHTED AND IS THE SOLE PROPERTY OF CROWN CASTLE. IT IS FURNISHED SOLELY FOR USE BY CROWN CASTLE AND ITS AFFILIATES. REPRODUCTION OR USE OF THIS DRAWING WITHOUT THE PERMISSION OF CROWN CASTLE WILL BE CONSIDERED UNLAWFUL.

NO.	DATE	BY
DESCRIPTION REVISIONS		

Magued Abdel-Messih

SITE NAME: SOUTH DAVES	
BUI NUMBER: 845598	
WO NUMBER: 2358934	
SITE ADDRESS: 130 WEST 1060 NORTH ROBERTUL, UT 84019 DAVES COUNTY, U.S.A	
ENG/QA BY: DBS DATE: 01/24/25	
DFT BY: EJB DATE: 01/27/25	
DTC/QA BY: EJB DATE: 01/27/25	
APP'VD BY: DBS DATE: 01/27/25	
SCALE: N.T.S.	
NOTES	

S-3	REV 0
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Administrative Committee Staff Report



Subject: Conditional Use Permit for a Cell Tower at
120 West 1000 North
Authors: Rachel Coleman, Planning Technician
Date: October 27, 2025

Background

On August 4, 2025, the Administrative Committee reviewed a Conditional Use Permit (CUP) application for a proposed cell tower. The applicant, Chyna Gudgel with AT&T, requested approval to increase the height of the existing north cell tower located at 120 West 1000 North. The tower sits on property owned by the Davis County School District within the Single-Family Residential (R-4) subzone. Because the tower is not located on Bountiful City property, it is considered a conditional use and requires CUP approval.

The Committee voted, on August 4, 2025, to continue the review to a future meeting because there was not enough information to confirm whether the tower could support two additional companies and be built to hold equipment for three companies total, as required by Bountiful City Land Use Code Section 14-14-118 (*See Attachment 10*).

The applicant provided new information that confirmed that the existing tower has the structural capacity for co-locating additional customers (*See Attachment 1-3*). The proposed tower design includes one active customer being moved from 75 feet to 100 feet (*see Attachments 4-7*). A structural analysis shows the tower is operating at only 38.3% of its capacity, indicating it has ample strength to support additional users (*See Attachment 1*).

Analysis

Staff has reviewed the submitted application, including the new findings, and determines that the proposed height increase of the existing north cell tower may be approved, provided that reasonable conditions are applied to mitigate any anticipated detrimental effects. This determination is based on the standards outlined in Bountiful City Land Use Code §14-14-118, which governs telecommunication facilities.

The applicant is proposing an 11.1-foot height increase to the existing north cell tower (*See Attachments 13-22*). Since the tower is already in place, code compliance focuses on whether the increased height remains unobtrusive in the residential area. The applicant has addressed this by responding to questions about compatibility with surrounding properties and how potential impacts will be mitigated (*See Attachment 8*).

The proposed cell tower upgrade will not require any modifications that would be obstructive to surrounding properties. The tower is positioned far enough from property lines to ensure that any

new visual, environmental, or operational impacts are minimal and consistent with the current use (*see Attachments 8 and 9*). To reduce the visual impact of the utility equipment and service areas, and to enhance safety at the base of the tower, it is recommended that screening and lighting be installed in accordance with the requirements listed below.

The project is limited to a tower height extension with no ground disturbance or new equipment. No conflicts with surrounding properties are expected. All work is to comply with land use codes, building standards, and local regulations, with minimal disruption (*see Attachment 8*).

Significant Impacts

There are no anticipated significant impacts to the neighboring properties.

Recommendation

Staff recommends that the Administrative Committee review the submitted application, hold a public hearing and approve the requested Conditional Use Permit to increase the height of the existing north cell tower located at 120 West 1000 North, subject to the following conditions of approval:

1. Screening shall be added along the existing fence at the base of the cell tower, as required by Bountiful City Land Use Code §14-15-104(D) (1-2).
2. Security lighting shall be installed for service and screened areas, in compliance with the Bountiful City Land Use Code 14-15-104(D) (3).
3. The Conditional Use Permit is site-specific and non-transferable.

Attachments

1. Colocation letter-signed
- 2-3. Colocation needs correction sent 8.11.25
- 4-6. Email correspondence August-October
7. Diagram of colocations and email correspondence
8. Response to Planning Questions
9. Site Plan
- 10-12. Statement of Intent
- 13-22. Permit Plans

120 West 1000 North



Photo submitted by applicant



Photo taken by staff on 7.23.25



Photo taken by staff on 7.23.25



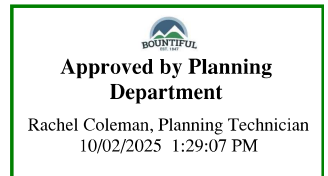
Sudarshan Kasera, P.E.
Senior Project Engineer
Tower Assets
Tel: 724-416-2456
Sudarshan.Kasera@crowncastle.com

Attachment 1

Crown Castle
2000 Corporate Drive
Canonsburg, PA 15317

September 30, 2025

Rachel Coleman
Bountiful City Building Department
795 South Main Street
Bountiful, UT 84010



Subject:

Response to Plan Review Comment

Crown Castle Designation:

Crown Castle BU Number: 845598
Crown Castle Site Name: SOUTH DAVIS
Crown Castle Work Order Number: 2358934
Crown Castle Order Number: 668928

Site Data:

120 West 1000 North, Bountiful, Davis County, UT 84010
Latitude 40° 54' 10.46", Longitude -111° 52' 57.55"
90.8 Foot Monopole with a Proposed 11 Foot Extension

Dear Rachel Coleman,

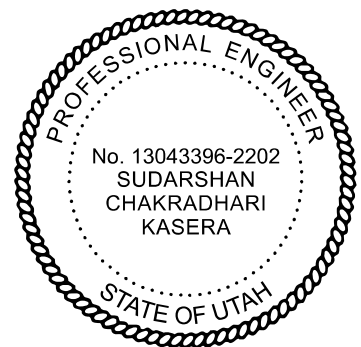
This letter is to attest that the tower structure operated by Crown Castle, located at the address referenced above, has the structural capacity for co-locating additional customers. The proposed configuration for the tower consists of a single active customer currently located at elevation 75' but proposed to be relocated to an elevation of 100'.

Based on the submitted structural analysis, the tower structure has a stress rating of 38.3% for the proposed configuration. Based on that capacity, the structure has significant reserve capacity for multiple additional customers.

Please contact the undersigned with any questions.

Sincerely,

Sudarshan Kasera, P.E.
Senior Project Engineer



Date: **January 28, 2025**



See page
49 for
corrections



Crown Castle
2000 Corporate Drive
Canonsburg, PA 15317
(724) 416-2000

Subject: Structural Modification Report

Carrier Designation:

AT&T Mobility Co-Locate

Site Number:

UTL03051

Site Name:

SOUTH DAVIS

FA Number:

10088279

Crown Castle Designation:

BU Number:

845598

Site Name:

SOUTH DAVIS

JDE Job Number:

2116827

Work Order Number:

2358934

Order Number:

668928 Rev. 3

Engineering Firm Designation: Crown Castle Project Number: 2358934

Site Data:

120 West 1000 North, Bountiful, Davis County, UT

Latitude: 40° 54' 10.46" Longitude: -111° 52' 57.55"

90.8 ft - Monopole Tower

Crown Castle is pleased to submit this **“Structural Modification Report”** to determine the structural integrity of the above-mentioned tower.

The purpose of the analysis is to determine acceptability of the tower stress level including the proposed modifications as outlined in the attached drawings, "Appendix D". Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC4: Modified Structure w/ Proposed Equipment Configuration

Sufficient Capacity

This analysis has been performed in accordance with the 2021 International Building Code based upon an ultimate 3-second gust wind speed of 140 mph. Applicable Standard references and design criteria are listed in Section 2 – "Analysis Criteria".

Structural analysis prepared by: Drew Stephens

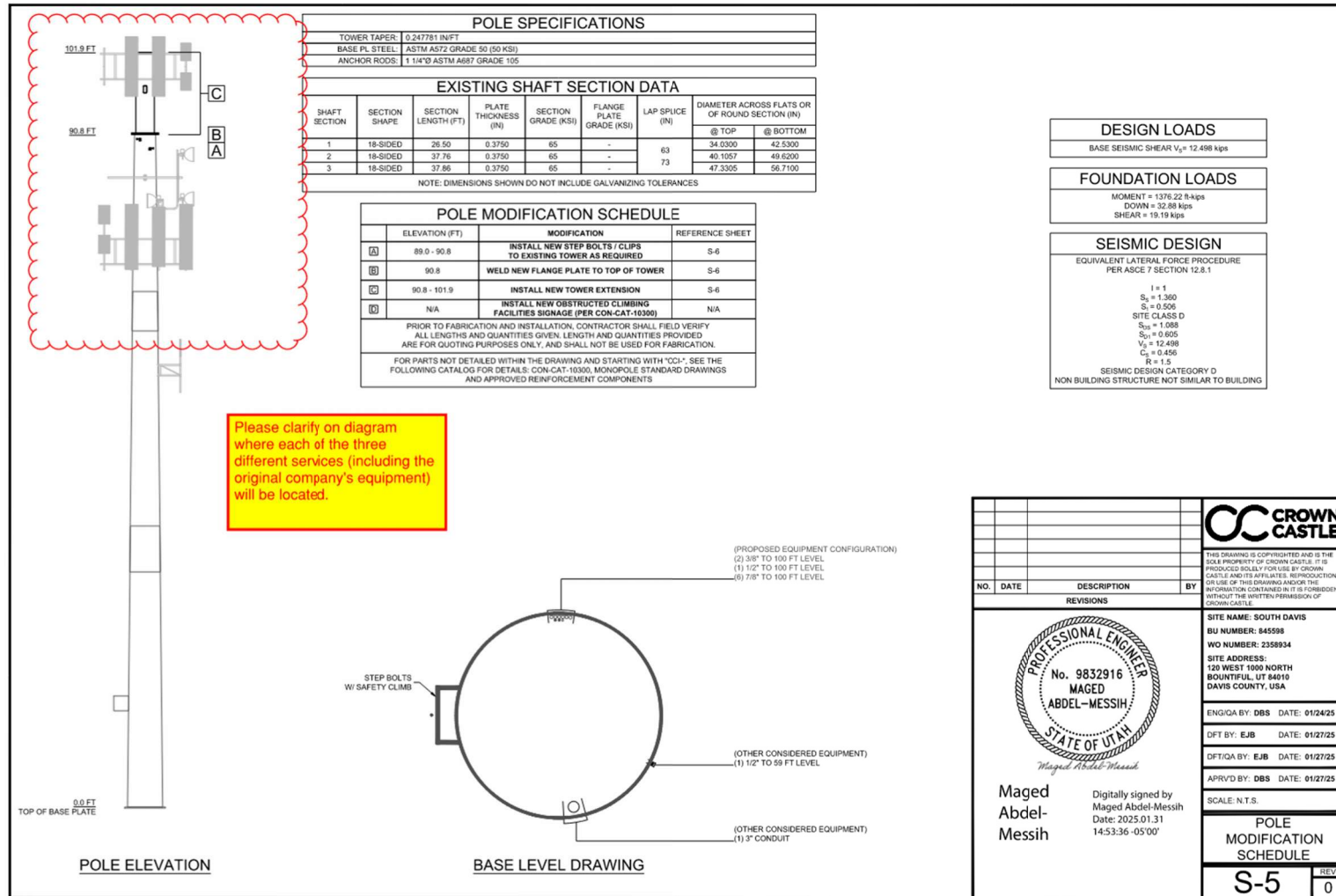
Respectfully submitted by:



Maged (Matthew) Abdel-Messih, P.E.
Senior Project Engineer

Maged
Abdel-
Messih

Digitally signed by
Maged Abdel-
Messih
Date: 2025.01.31
14:43:33 -05'00'



Email sent on 8/20/25

Hi Chyna,

I sent a message through the City Inspect portal for application PLANCUP25-027 120 West 1000 North. The Planning Department needs more clarification about the location of each of the three different services on the pole being modified (including the original company's equipment). See the attachment sent on 8/11/25 for the redline notes.

Thanks

Rachel Coleman

Planning Technician

See document "Colocations needs correction sent 8.11.25."

Email response on 8/21/25

Hello Rachel,

I've sent this to my team asking for this detail to provide. I'll get back to you as soon as I receive the response.

All the best,

Chyna

Email Sent on 8/26/25

Hi Chyna,

I sent some updates to the City Inspect application PLANCUP25-027 Conditional Use Permit 120 West 1000 North.

Respectfully,

Rachel Coleman

Bountiful City Planning Department

Email response 8/28/25

Great, thanks for the update.

All the best,

Chyna Gudgel

See document “Diagram of colocations and email correspondence.”

Email sent 9.15.25

Hey Rachel,

To confirm this was only ran for 2 collocations, which is the only proposed collocations for the modification to the tower. I'm not seeing any additional comments in the portal outside of the structural related comments. Please let me know if we are missing anything else here.

All the best,

Chyna Gudgel

Email response 9.17.25

Chyna,

The purpose of my inquiry is to ensure compliance with §14-14-118(B)(2), which states: *“The tower shall be constructed in such a manner as to accommodate three (3) different services, meaning the original company’s equipment and two colocations on the same tower.”* From your reply, I gather that the current tower and the requested additional height will accommodate AT&T and Sigfox (two services).

Can you please confirm whether the tower can also accommodate a third service as required by code?

Respectfully,

Rachel Coleman

Email response 9/17/25

Hey Rachel,

Understood, I took this back to my team for confirmation.

All the best,

Chyna Gudgel (she/her)

Email sent 10/2/25

Hello Rachel,

Please see the attached from my engineer.

All the best,

Chyna Gudgel (she/her)

See document “845598_Future colocation letter-Signed_approved_RC”

The information received from applicant (see below) confirms that there will be only two (2) different co-locations on the proposed tower.

 This does not comply with Bountiful City Land Use Code 14-14-118(B), which requires that a tower be built to accommodate three (3) different services—the original company's equipment plus two additional co-locations on the same tower.

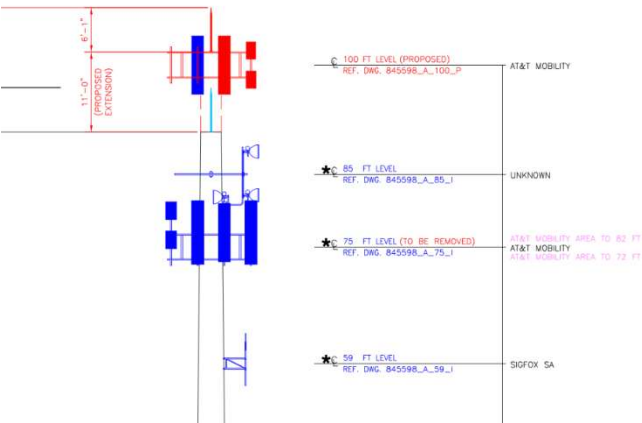
On 8/25/25 Rachel Coleman sent the following to the applicant:

“Hi Chyna,

 I got the diagram (see *diagram below*) you sent with the colocations. Once I receive an official response via email to the question below, I can proceed forward with adding this application to our Administrative Committee meeting on September 8, 2025: Does the diagram show that the proposed tower can accommodate three (3) different services meaning the original company’s equipment and 2 colocations on the same tower?”

The applicant responded to question on 8/25/25 with the following:

“Per my structural engineer, the SA was ran with only 2 colocations, which are ATT at 100’ and Sigfox at 59’. ATT is removing their loading at 75’ and moving to 100’. There are no other carriers on this tower.”





**Reviewed by Planning
Department**

Rachel Coleman, Planning Technician
07/17/2025 4:53:20 PM

Response to Planning Questions

1. How does the proposed project fit with the surrounding properties and uses?

The proposed project involves a vertical extension of an existing monopole telecommunications tower located at 120 West 1000 North in Bountiful, Utah. The modification does not alter the tower's footprint or introduce any new ground-based infrastructure. The tower is already established in the area and serves a critical role in supporting wireless communication services. The height extension is designed to enhance service coverage and network reliability while maintaining compatibility with the existing land use and surrounding properties.

2. In what ways does the project not fit with the surrounding properties and uses?

There are no significant ways in which the proposed project does not fit with the surrounding properties and uses. The tower is an existing structure, and the proposed modification does not introduce any new visual, environmental, or operational impacts beyond the current use. The extension is minimal and consistent with the tower's original purpose and design.

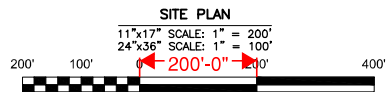
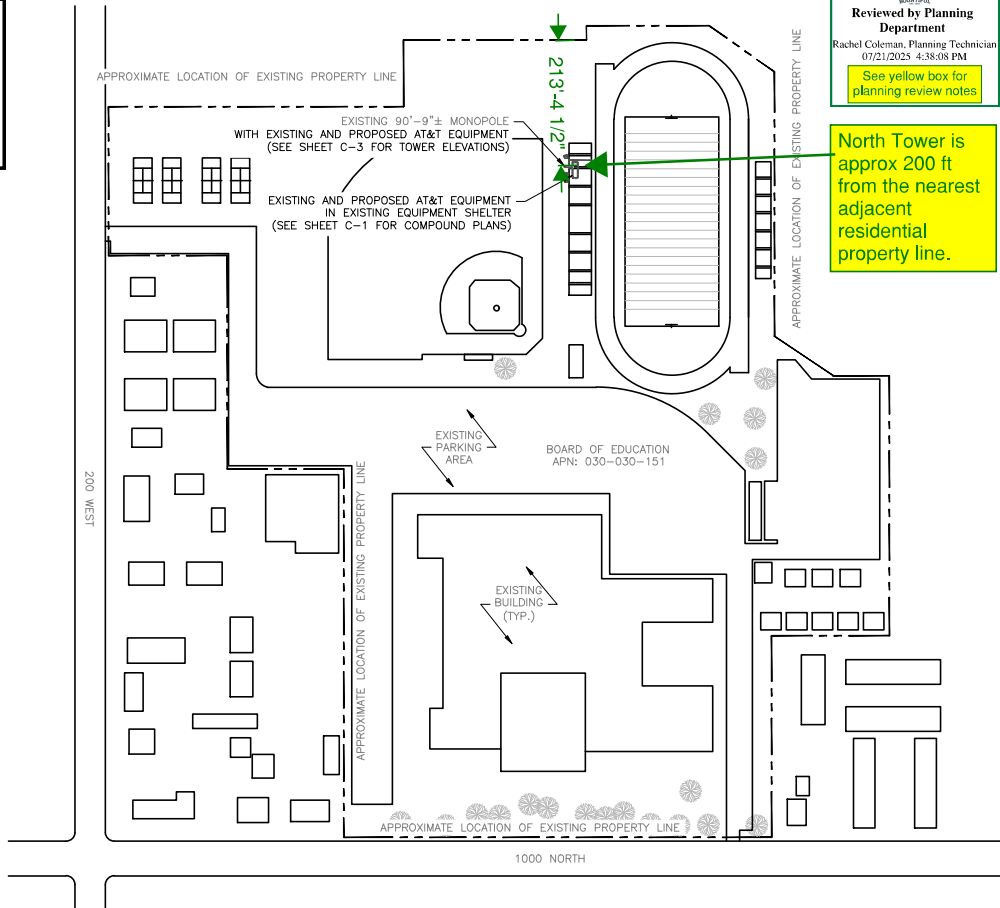
3. What will you do to mitigate the potential conflicts with surrounding properties and uses?

Since the project involves only a height extension of an existing structure with no ground disturbance or new equipment installations, no conflicts with surrounding properties are anticipated. Nevertheless, all work will comply with applicable structural, safety, and zoning standards, including TIA-222-H and the 2021 IBC. The project will be executed with minimal disruption, and all construction activities will be coordinated to ensure public safety and compliance with local regulations.

Reviewed by Planning Department
 Rachel Coleman, Planning Technician
 07/17/2025 4:54:58 PM

Reviewed by Planning Department
 Rachel Coleman, Planning Technician
 07/21/2025 4:38:08 PM
 See yellow box for planning review notes

North Tower is approx 200 ft from the nearest adjacent residential property line.





8020 Katy Freeway
Houston, TX 77024

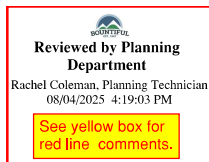
Attachment 10

Phone: (714) 794-4261
www.crowncastle.com

June 30, 2025

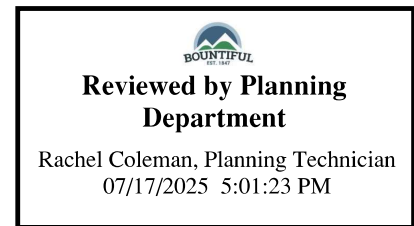
CITY OF BOUNTIFUL, UT
PLANNING AND ZONING
790 SOUTH 100 EAST
BOUNTIFUL, UT 84010

Via Online Portal



The Administrative Committee voted on 8/4/25 to postpone approval of the CUP application until all requirements are met. One outstanding issue relates to Bountiful City Land Use Code 14-14-118(B)(2):

The applicant must provide documentation showing that the tower was built to support three providers (the original company plus two co-locations). No record has been found confirming this requirement was met when the tower was first built.



*****NOTICE OF ELIGIBLE FACILITIES REQUEST*****

RE: Request for Minor Modification to Existing Wireless Facility – Section 6409
Site Address: 120 WEST 1000 NORTH, BOUNTIFUL, DAVIS County, UT 84010
Crown Site Number: 845598 / Crown Site Name: SOUTH DAVIS
Customer Site Number: UTL03051 / Application Number: 668928

On behalf of New Cingular Wireless PCS, LLC (“AT&T Mobility” or “Applicant”), Crown Castle USA Inc. (“Crown Castle”) is pleased to submit this request to modify the existing wireless facility noted above through the collocation, replacement and/or removal of the Applicant’s equipment as an eligible facilities request for a minor modification under Section 6409¹ and the rules of the Federal Communications Commission (“FCC”).²

Section 6409 mandates that state and local governments must approve any eligible facilities request for the modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station. Under Section 6409, to toll the review period, if the reviewing authority determines that the application is incomplete, it must provide written notice to the applicant within 30 days, which clearly and specifically delineates all missing documents or information reasonably related to whether the request meets the federal requirements.³ Additionally, if a state or local government, fails to issue any approvals required for this request within 60 days, these approvals are deemed granted. The FCC has clarified that the 30-day and 60-day deadlines begins when an applicant: (1) takes the first step required under state or local law; and (2) submits information sufficient to inform the jurisdiction that this modification qualifies under the federal law⁴. Please note that with the submission of this letter and enclosed items, the thirty and sixty-day review periods have started. **Based on the date of this filing, the deadline for written notice of incomplete application is July 30, 2025, and the deadline for issuance of approval is August 29, 2025.**

¹ Middle Class Tax Relief and Job Creation Act of 2012, Pub. L. No. 112-96, § 6409 (2012) (codified at 47 U.S.C. § 1455).

² *Acceleration of Broadband Deployment by Improving Wireless Facility Siting Policies*, 29 FCC Rcd. 12865 (2014) (codified at 47 CFR § 1.6100); and *Implementation of State & Local Governments’ Obligation to Approve Certain Wireless Facility Modification Requests Under Section 6409(a) of the Spectrum Act of 2012*, WT Docket No. 19-250 (June 10, 2020).

³ See 47 CFR § 1.6100 (c)(3). ⁴ See 2020 Upgrade Order at paragraph 16.

The Foundation for a Wireless World.
CrownCastle.com



8020 Katy Freeway
Houston, TX 77024

Attachment 11

Phone: (714) 794-4261
www.crowncastle.com

The proposed scope of work for this project includes:

Tower Extension Only - No equipment changes

At the end of this letter is a checklist outlining the applicable substantial change criteria under Section 6409. Additionally, the following items are included in support of this request:

- Construction Drawings
- Structural Analysis

As these documents indicate, (i) the modification involves the collocation, removal or replacement of transmission equipment; and (ii) such modification will not substantially change the physical dimensions of such tower or base station. As such, it is an “eligible facilities request” as defined in the FCC’s rules to which the 60-day deadline for approval applies. Accordingly, Applicant requests all authorization necessary for this proposed minor modification under Section 6409.

Our goal is to work with you to obtain approvals earlier than the deadline. We will respond promptly to any request for related information you may have in connection with this request. Please let us know how we can work with you to expedite the approval process. We look forward to working with you on this important project, which will improve wireless telecommunication services in your community using collocation on existing infrastructure. If you have any questions, please do not hesitate to contact me.

Regards,

Chyna Gudgel

Chyna Gudgel
Permitting Specialist, Tower Services
Crown Castle, Agent for AT&T Mobility
(714) 794-4261
Chyna.Gudgel@crowncastle.com

The Foundation for a Wireless World.
CrownCastle.com



8020 Katy Freeway
Houston, TX 77024

Phone: (714) 794-4261
www.crowncastle.com

**Section 6409 Substantial Change Checklist for
Towers Outside of the Public Right of Way**

The Federal Communications Commission has determined that a modification substantially changes the physical dimension of a wireless tower or base station under 47 U.S.C. § 1455(a) if it meets one of six enumerated criteria under 47 C.F.R. § 1.6100.

Criteria for Towers Outside of the Public Rights of Way

YES/NO NO	Does the modification increase the height of the tower by more than the greater of: (a) 10%; or (b) the height of an additional antenna array plus separation of up to 20 feet from the top of the nearest existing antenna?
YES/NO NO	Does the modification add an appurtenance to the body of the tower that would protrude from the edge of the tower more than 20 feet or more than the width of the tower structure at the level of the appurtenance, whichever is greater?
YES/NO NO	Does the modification involve the installation of more than the standard number of new equipment cabinets for the technology involved or add more than four new equipment cabinets?
YES/NO NO	Does the modification entail any excavation or deployment outside the current site by more than 30 feet in any direction, not including any access or utility easements?
YES/NO NO	Does the modification defeat the concealment elements of the eligible support structure?
YES/NO NO	Does the modification violate conditions associated with the siting approval for the tower or base station other than as specified in 47 C.F.R. § 1.6100(c)(7)(i) – (iv)?

If all questions in the above section are answered “NO,” then the modification does not constitute a substantial change to the existing tower under 47 C.F.R. § 1.6100.



CROWN CASTLE

TOWER MODIFICATION DRAWINGS

SITE NAME: SOUTH DAVIS
BU NUMBER: 845598

SITE ADDRESS:
120 WEST 1000 NORTH
BOUNTIFUL, UT 84010
DAVIS COUNTY, USA

PROJECT CONTACTS:

1. CROWN PROJECT MANAGER

WESLEY POWER
(678) 259-2265
WESLEY.POWER@CROWNCastle.COM
8000 AVALON BLVD, SUITE 700
ALPHARETTA, GA 30009

2. CROWN DESIGN ENGINEER (EOR)

MAGED (MATTHEW) ABDEL-MESSIH, P.E.
(724) 416-2000
EOR.APPROVAL@CROWNCastle.COM
2000 CORPORATE DRIVE
CANONSBURG, PA 15317

TOWER INFORMATION

TOWER MANUFACTURER / DOC #: PIROD / CCISITES DOC # 4840324

TOWER HEIGHT / TYPE: 101.9 FT MONOPOLE TOWER

TOWER LOCATION: LAT 40° 54' 10.46"

DATUM: (NAD 1983) LONG -111° 52' 57.55"

ELEV 4304 FT AMSL

STRUCTURAL DESIGN DRAWING: CCI / WO # 2358934

STRUCTURAL ANALYSIS REPORT: TEP / WO # 2308276

STRUCTURAL ANALYSIS DATE: 06/16/24

ORDER #: 668928 REV # 3

CCISITES DOCUMENT ID: 11511737

CODE COMPLIANCE

THIS MODIFICATION DESIGN IS BASED ON THE REQUIREMENTS OF THE TIA-222-H STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES BASED UPON AN ULTIMATE 3-SECOND GUST WIND SPEED OF 140 MPH WITH NO ICE AS REQUIRED BY THE 2021 IBC, 60 MPH UNDER SERVICE LOADS, EXPOSURE CATEGORY B AND RISK CATEGORY II. SEISMIC FORCES WERE CONSIDERED BASED ON SPECTRAL RESPONSE FACTORS $S_B=1.360$ AND $S_1=0.506$.

See page 5
for notes on
height
extension

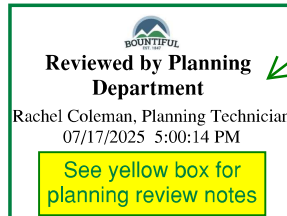
NO.	DATE	DESCRIPTION	BY
REVISIONS			
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SITE NAME: SOUTH DAVIS BU NUMBER: 845598 WO NUMBER: 2358934 SITE ADDRESS: 120 WEST 1000 NORTH BOUNTIFUL, UT 84010 DAVIS COUNTY, USA			
ENG/CA BY: DBS DATE: 01/24/25			
DFT BY: EJB DATE: 01/27/25			
DFT/QA BY: EJB DATE: 01/27/25			
APRVD BY: DBS DATE: 01/27/25			
SCALE: N.T.S.			
TITLE PAGE			
S-1			REV 0

HOT WORK INCLUDED	
N/A	BASE GRINDING ONLY
N/A	BASE WELDING (AND GRINDING)
N/A	AERIAL GRINDING ONLY
X	AERIAL WELDING (AND GRINDING)

ATTENTION ALL CONTRACTORS, ANYTIME YOU ACCESS A CROWN SITE FOR ANY REASON YOU ARE TO CALL THE CROWN NOC UPON ARRIVAL AND DEPARTURE, DAILY AT 800-788-7011



SAFETY CLIMB: 'LOOK UP'
THE INTEGRITY OF THE WIRE ROPE SAFETY CLIMB SYSTEM SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER REINFORCEMENTS AND EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF ANY WIRE ROPE SAFETY CLIMB ON THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, OR IMPACT TO THE ANCHORAGE POINTS IN ANY WAY. ANY COMPROMISED SAFETY CLIMB MUST BE REPORTED TO YOUR CROWN POC FOR RESOLUTION, INCLUDING EXISTING CONDITIONS.



DRAWINGS INCLUDED

SHEET NUMBER	DESCRIPTION
S-1	TITLE PAGE
S-2	MODIFICATION INSPECTION CHECKLIST
S-3 & S-4	NOTES
S-5	POLE MODIFICATION SCHEDULE
S-6 - S-9	DETAILS
S-10	STANDARD PARTS

CON-FRM-10354 MI CHECKLIST			
REQUIRED	REPORT ITEM	APPLICABLE CROWN DOC	BRIEF DESCRIPTION
PRE-CONSTRUCTION			
X	ECR APPROVED SHOP DRAWINGS	CON-SOW-10007	ONCE THE PRE-MODIFICATION MAPPING IS COMPLETE AND PRIOR TO FABRICATION, THE CONTRACTOR SHALL PROVIDE DETAILED ASSEMBLY DRAWINGS AND/OR SHOP DRAWINGS ALONG WITH ECR RFI FORM DETAILING ANY CHANGES FROM THE ORIGINAL DESIGN TO THE ECR FOR REVIEW AND APPROVAL.
X	FABRICATOR INSPECTION	CON-SOW-10007	A LETTER FROM THE FABRICATOR, STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH INDUSTRY STANDARDS AND THE CONTRACT DOCUMENTS, SHALL BE PROVIDED TO THE MI INSPECTOR FOR INCLUSION IN THE MI REPORT.
X	FABRICATOR CERTIFIED WELD INSPECTION	CON-SOW-10007 CED-STD-10069	A CWI SHALL INSPECT ALL WELDING PERFORMED ON STRUCTURAL MEMBERS DURING FABRICATION. A WRITTEN REPORT SHALL BE PROVIDED TO THE MI INSPECTOR FOR INCLUSION IN THE MI REPORT.
X	MATERIAL TEST REPORTS (MTR)	CON-SOW-10007	MATERIAL TEST REPORTS SHALL BE PROVIDED FOR MATERIAL USED AS REQUIRED PER SECTION 9.2.5 OF CED-SOW-10007. MTRs SHALL BE PROVIDED TO THE MI INSPECTOR FOR INCLUSION IN THE MI REPORT.
X	FABRICATOR NDE INSPECTION REPORT	CED-SOW-10066 CED-STD-10069	CRITICAL SHOP WELDS THAT REQUIRE TESTING ARE NOTED ON THESE CONTRACT DRAWINGS. A CERTIFIED NDT INSPECTOR SHALL PERFORM NON-DESTRUCTIVE EXAMINATION AND A REPORT SHALL BE PROVIDED TO THE MI INSPECTOR FOR INCLUSION IN THE MI REPORT.
N/A	NDE OF MONOPOLE BASE PLATE	ENG-SOW-10033	A NDE OF THE POLE TO BASE PLATE CONNECTION IS REQUIRED AND A WRITTEN REPORT SHALL BE PROVIDED TO THE MI INSPECTOR FOR INCLUSION IN THE MI REPORT.
X	PACKING SLIPS	CON-SOW-10007	PACKING/SHIPPING LIST FOR ALL MATERIAL USED DURING CONSTRUCTION OF THE MODIFICATION
ADDITIONAL TESTING AND INSPECTIONS:			
N/A			
CONSTRUCTION			
N/A	FOUNDATION INSPECTIONS	CED-SOW-10144	A VISUAL OBSERVATION OF THE EXCAVATION AND REBAR SHALL BE PERFORMED BEFORE PLACING THE CONCRETE. A VISUAL OBSERVATION OF THE REBAR SHALL BE PERFORMED BEFORE PLACING THE EPOXY. A SEALED WRITTEN REPORT SHALL BE PROVIDED TO THE MI INSPECTOR FOR INCLUSION IN THE MI REPORT.
N/A	CONCRETE COMP. STRENGTH AND SLUMP TEST	CED-SOW-10144	THE CONCRETE MIX DESIGN, SLUMP TEST, AND COMPRESSIVE STRENGTH TESTS SHALL BE PROVIDED AS PART OF THE FOUNDATION REPORT.
N/A	EARTHWORK: SOIL COMPACTION	CED-SOW-10144	FOUNDATION SOIL COMPACTION SHALL BE INSPECTED AND APPROVED BY AN APPROVED FOUNDATION INSPECTOR AND RESULTS INCLUDED AS PART OF THE FOUNDATION REPORT.
N/A	EARTHWORK: BEARING CAPACITY	CED-SOW-10144	FOUNDATION SUB-GRADES SHALL BE INSPECTED AND APPROVED BY AN APPROVED FOUNDATION INSPECTOR AND RESULTS INCLUDED AS PART OF THE FOUNDATION REPORT.
N/A	MICROPILE/ROCK ANCHOR	CED-SOW-10144	MICROPILES/ROCK ANCHORS SHALL BE INSPECTED BY THE FOUNDATION INSPECTION VENDOR AND SHALL BE INCLUDED AS PART OF THE FOUNDATION INSPECTION REPORT. ADDITIONAL TESTING AND/OR INSPECTION REQUIREMENTS ARE NOTED IN THESE CONTRACT DOCUMENTS AND GENERAL NOTES PAGE TWO.
N/A	POST-INSTALLED ANCHOR ROD VERIFICATION	CON-SOW-10007 CON-FRM-10356	POST INSTALLED ANCHOR ROD VERIFICATION SHALL BE PERFORMED IN ACCORDANCE WITH CROWN REQUIREMENTS AND A REPORT SHALL BE PROVIDED TO THE MI INSPECTOR FOR INCLUSION IN THE MI REPORT.
N/A	BASE PLATE GROUT VERIFICATION	ENG-STD-10323	THE GENERAL CONTRACTOR SHALL PROVIDE DOCUMENTATION TO THE MI INSPECTOR THAT CERTIFIES THAT THE GROUT WAS REMOVED AND/OR INSTALLED IN ACCORDANCE WITH CROWN REQUIREMENTS FOR INCLUSION IN THE MI REPORT.
N/A	ELEPHANT ARMOR	OPS-SOW-10331	PHOTOS SHALL BE SUBMITTED IN ACCORDANCE WITH SECTION 6 FOR INCLUSION IN THE MI REPORT
X	FIELD CERTIFIED WELD INSPECTION	CED-SOW-10066 CED-STD-10069	A CROWN APPROVED CERTIFIED WELD INSPECTOR SHALL INSPECT AND TEST FIELD WELDS, FOLLOWING ALL PROCEDURES SPECIFIED IN CROWN STANDARD DOCUMENTS APPLICABLE TO WELD INSPECTIONS. A REPORT SHALL BE PROVIDED. NDE OF FIELD WELDS SHALL BE PERFORMED AS REQUIRED BY CROWN STANDARDS AND CONTRACT DOCUMENTS. THE NDE REPORT SHALL BE INCLUDED IN THE CWI REPORT.
N/A	FIELD NDE	CON-STD-10159 CON-SOW-10007	A NDE OF THE FIELD WELDS IN ACCORDANCE WITH CON-STD-10159 AND ANY ADDITIONAL NDE REQUIREMENTS NOTED IN THESE DESIGN DOCUMENTS
X	ON-SITE COLD GALVANIZING VERIFICATION	CON-STD-10149 CON-FRM-10356	THE GENERAL CONTRACTOR SHALL PROVIDE WRITTEN AND PHOTOGRAPHIC DOCUMENTATION TO THE MI INSPECTOR VERIFYING THAT ANY ON-SITE COLD GALVANIZING WAS APPLIED PER MANUFACTURER SPECIFICATIONS AND APPLICABLE STANDARDS.
N/A	TENSION TWIST AND PLUMB	CON-STD-10261	THE GENERAL CONTRACTOR SHALL PROVIDE A REPORT IN ACCORDANCE WITH APPLICABLE STANDARDS DOCUMENTING TENSION TWIST AND PLUMB.
N/A	TOWER PLUMB DELIVERABLES	CON-SOW-10007	THE CONTRACTOR SHALL PROVIDE WRITTEN AND PHOTOGRAPHIC DOCUMENTATION TO THE MI INSPECTOR VERIFYING THE TOWER PLUMB CONDITION SEE REQUIREMENTS ON GENERAL NOTES SHEET PAGE TWO
N/A	CANISTER DRAWINGS	CON-SOW-10007	THE CONTRACTOR SHALL SUBMIT A LEGIBLE COPY OF ANY FINAL FABRICATION OR PARTS DRAWINGS PROVIDED BY THE CANISTER VENDOR
X	GC AS-BUILT DRAWINGS	CON-SOW-10007	THE GENERAL CONTRACTOR SHALL SUBMIT A LEGIBLE COPY OF THE ORIGINAL DESIGN DRAWINGS EITHER STATING "INSTALLED AS DESIGNED" OR NOTING ANY CHANGES THAT WERE REQUIRED AND APPROVED BY THE ENGINEER OF RECORD. ECR RFI FORMS APPROVING ALL CHANGES SHALL BE SUBMITTED.
ADDITIONAL TESTING AND INSPECTIONS:			
X	NDE OF NEW FLANGE PLATE	ENG-SOW-10033	A NDE OF THE POLE TO NEW FLANGE PLATE CONNECTION IS REQUIRED AND A WRITTEN REPORT SHALL BE PROVIDED TO THE MI INSPECTOR FOR INCLUSION IN THE MI REPORT. REF DOC FOR BASE PLATES, GC TO USE IF APPLICABLE TO NEW FLANGE PLATES.
POST-CONSTRUCTION			
X	CONSTRUCTION COMPLIANCE LETTER	CON-SOW-10007 CON-FRM-10356	A LETTER FROM THE GENERAL CONTRACTOR STATING THAT THE WORKMANSHIP WAS PERFORMED IN ACCORDANCE WITH INDUSTRY STANDARDS AND THESE CONTRACT DRAWINGS
N/A	POST-INSTALLED ANCHOR ROD PULL TESTS	CED-PRC-10119	POST-INSTALLED ANCHOR RODS SHALL BE TESTED BY A CROWN APPROVED PULL TEST INSPECTOR AND A REPORT SHALL BE PROVIDED INDICATING TESTING RESULTS.
X	PHOTOGRAPHS	CON-SOW-10007	PHOTOGRAPHS SHALL BE SUBMITTED TO THE MI. PHOTOS SHALL DOCUMENT ALL PHASES OF THE CONSTRUCTION. THE PHOTOS SHALL BE ORGANIZED IN A MANNER THAT EASILY IDENTIFIES THE EXACT LOCATION OF THE PHOTO.
N/A	BOLT HOLE INSTALLATION VERIFICATION REPORT	CON-SOW-10007	THE MI INSPECTOR SHALL VERIFY THE HOLE SIZE AND CONDITION OF 10% OF ALL NON PRE-TENSIONED BOLTS INSTALLED AS PART OF THE MODIFICATION. THE MI REPORT SHALL CONTAIN THE COMPLETED BOLT INSTALLATION VERIFICATION REPORT, INCLUDING THE SUPPORTING PHOTOGRAPHS.
X	PUNCH LIST DEVELOPMENT AND CORRECTION DOCUMENTATION	CON-PRC-10263 CON-FRM-10285	FINAL PUNCH LIST INDICATING ALL NONCONFORMANCE(S) IDENTIFIED AND THE FINAL RESOLUTION/APPROVAL.
X	MI INSPECTOR RECORD DRAWING(S)	CON-SOW-10007	THE MI INSPECTOR SHALL OBSERVE AND REPORT ANY DISCREPANCIES BETWEEN THE CONTRACTOR'S REDLINE DRAWING AND THE ACTUAL COMPLETED INSTALLATION.
ADDITIONAL TESTING AND INSPECTIONS:			
N/A			
THE MI CHECKLIST SHALL BE REVIEWED PRIOR TO THE START OF CONSTRUCTION. ALL PARTIES TO THE MODIFICATION SHALL UNDERSTAND CROWN REQUIREMENTS AND INSPECTION DOCUMENTATION THAT IS APPLICABLE TO THE SCOPE OF WORK THEY ARE PERFORMING. ERRORS ON THE MI CHECKLIST SHALL BE BROUGHT TO THE ATTENTION OF THE CROWN POC AND ECR AS SOON AS POSSIBLE.			

MODIFICATION INSPECTION NOTES

GENERAL

THE MI IS AN ON-SITE VISUAL AND HANDSON INSPECTION OF TOWER MODIFICATIONS INCLUDING A REVIEW OF CONSTRUCTION REPORTS AND ADDITIONAL PERTINENT DOCUMENTATION PROVIDED BY THE GENERAL CONTRACTOR (GC), AS WELL AS ANY INSPECTION DOCUMENTS PROVIDED BY 3RD PARTY INSPECTORS. THE MI IS TO ENSURE THE INSTALLATION WAS CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, NAMELY THE MODIFICATION DRAWINGS, IN ACCORDANCE WITH APPLICABLE CROWN STANDARDS, AND AS DESIGNED BY THE ENGINEER OF RECORD (EOR).

NO DOCUMENT, CODE OR POLICY CAN ANTICIPATE EVERY SITUATION THAT MAY ARISE. ACCORDINGLY, THIS CHECKLIST IS INTENDED TO SERVE AS A SOURCE OF GUIDING PRINCIPLES IN ESTABLISHING GUIDELINES FOR MODIFICATION INSPECTION.

THE MI IS TO CONFIRM INSTALLATION CONFIGURATION AND WORKMANSHIP ONLY AND IS NOT A REVIEW OF THE MODIFICATION DESIGN ITSELF, AND THE MI INSPECTOR DOES NOT TAKE OWNERSHIP OF THE MODIFICATION DESIGN. OWNERSHIP OF THE STRUCTURAL MODIFICATION DESIGN EFFECTIVENESS AND INTEGRITY REMAINS WITH THE EOR AT ALL TIMES. THE MI INSPECTOR SHALL INSPECT AND NOTE CONFORMANCE/NONCONFORMANCE AND PROVIDE TO THE CROWN POINT OF CONTACT (CROWN POC) FOR EVALUATION.

TO INSURE THAT THE REQUIREMENTS OF THE MI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE MI INSPECTOR BEGIN COMMUNICATING AND COORDINATING AS SOON AS A PURCHASE ORDER (PO) IS RECEIVED. IT IS EXPECTED THAT EACH PARTY WILL BE PROACTIVE IN REACHING OUT TO THE OTHER PARTY. IF CONTACT INFORMATION IS NOT KNOWN THE GC AND/OR INSPECTOR SHALL CONTACT THE CROWN POINT OF CONTACT (CROWN POC).

REFER TO CROWN CON-SOW-10007, "MODIFICATION INSPECTION", FOR FURTHER DETAILS AND REQUIREMENTS.

SERVICE LEVEL COMMITMENT

THE FOLLOWING RECOMMENDATIONS AND SUGGESTIONS ARE OFFERED TO ENHANCE THE EFFICIENCY AND EFFECTIVENESS OF DELIVERING AN MI REPORT:

- THE GC SHALL PROVIDE A MINIMUM OF 5 BUSINESS DAYS NOTICE, PREFERABLY 10, TO THE MI INSPECTOR AS TO WHEN THE SITE WILL BE READY FOR THE MI TO BE CONDUCTED.
- THE GC AND MI INSPECTOR COORDINATE CLOSELY THROUGHOUT THE ENTIRE PROJECT.
- WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE DURING THE MI TO HAVE ANY MINOR DEFICIENCIES CORRECTED DURING THE MI. THEREFORE, THE GC MAY CHOOSE TO COORDINATE THE MI CAREFULLY TO ENSURE ALL CONSTRUCTION FACILITIES ARE AT THEIR DISPOSAL WHEN THE MI INSPECTOR IS ON-SITE.

REQUIRED PHOTOS

BETWEEN THE GC AND THE MI INSPECTOR THE FOLLOWING PHOTOGRAPHS, AT A MINIMUM, ARE TO BE TAKEN AND INCLUDED IN THE MI REPORT:

- PRE-CONSTRUCTION GENERAL SITE CONDITION
- PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/RESECTION AND INSPECTION
 - RAW MATERIALS
 - PHOTOS OF ALL CRITICAL DETAILS
 - FOUNDATION MODIFICATIONS
 - WELD PREPARATION
 - BOLT INSTALLATION
 - FINAL INSTALLED CONDITION
 - SURFACE COATING REPAIR
 - POST CONSTRUCTION PHOTOGRAPHS
 - FINAL INFELD CONDITION

PHOTOS OF ELEVATED MODIFICATIONS TAKEN ONLY FROM THE GROUND SHALL BE CONSIDERED INADEQUATE.

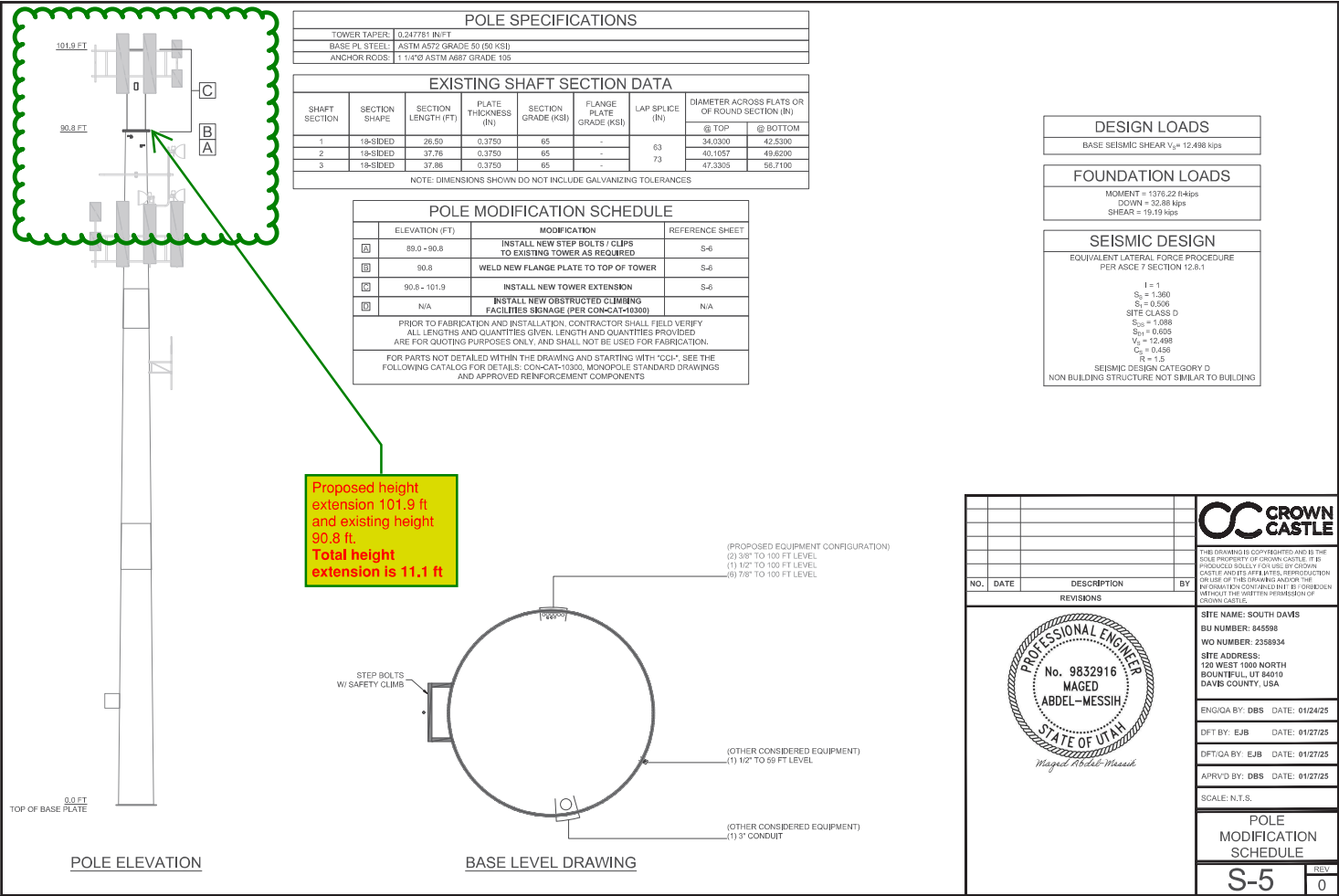
THIS IS NOT A COMPLETE LIST OF REQUIRED PHOTOS. FOR A COMPLETE LIST OF PHOTOS SEE CROWN DOCUMENT # CED-SOW-10007.

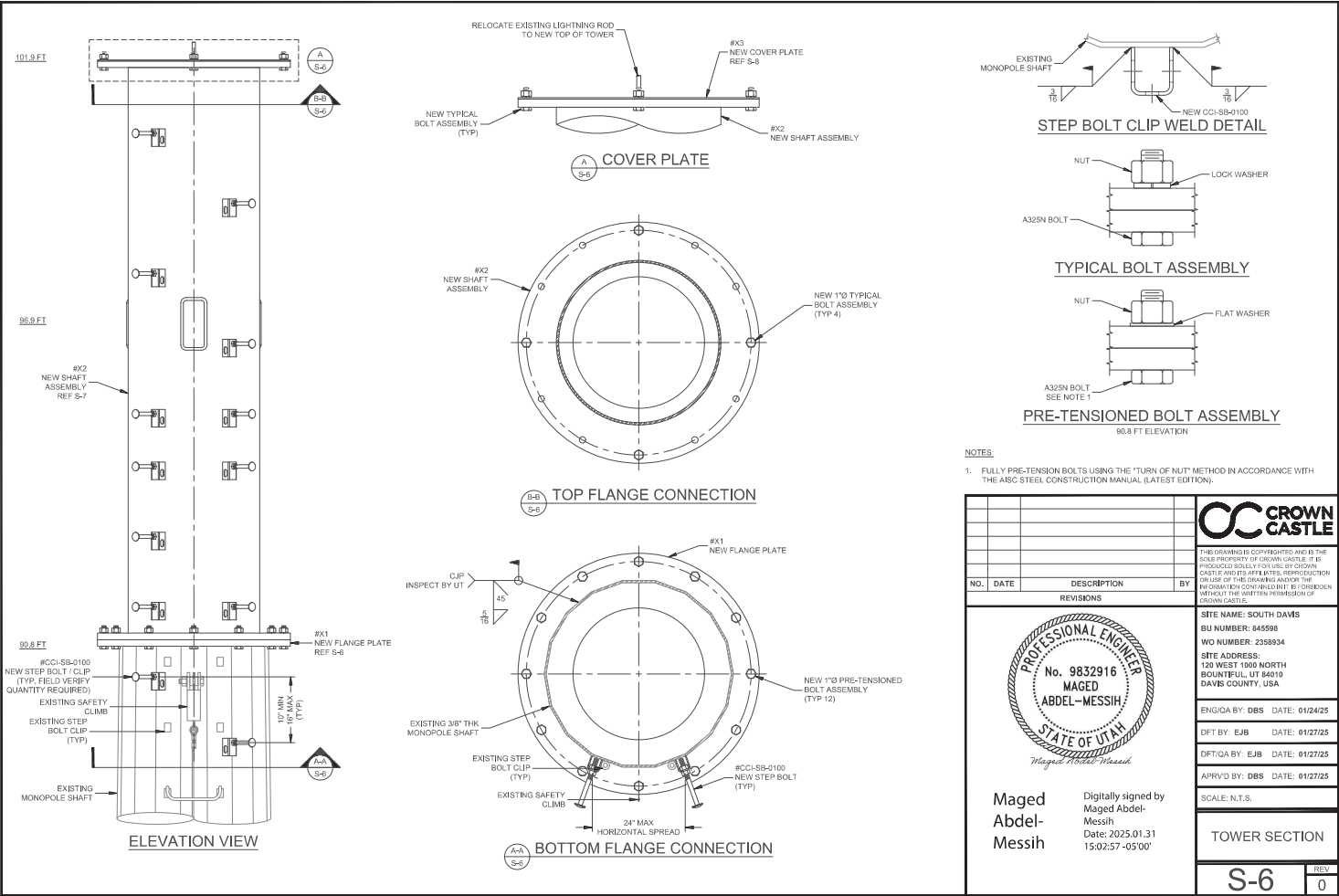
				
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NO.	DATE	DESCRIPTION	BY	
REVISIONS				
				
SITE NAME: SOUTH DAVIS				
BU NUMBER: 845598				
BU NUMBER: 2358934				
SITE ADDRESS: 120 WEST 1800 NORTH BOUNTIFUL, UT 84019 DAVIS COUNTY, USA				
ENG/CA BY: DBS DATE: 01/24/25				
DFT BY: EJB DATE: 01/27/25				
DFT/CA BY: EJB DATE: 01/27/25				
APRVD BY: DBS DATE: 01/27/25				
SCALE: N.T.S.				
MODIFICATION INSPECTION CHECKLIST				
S-2				REV: 0

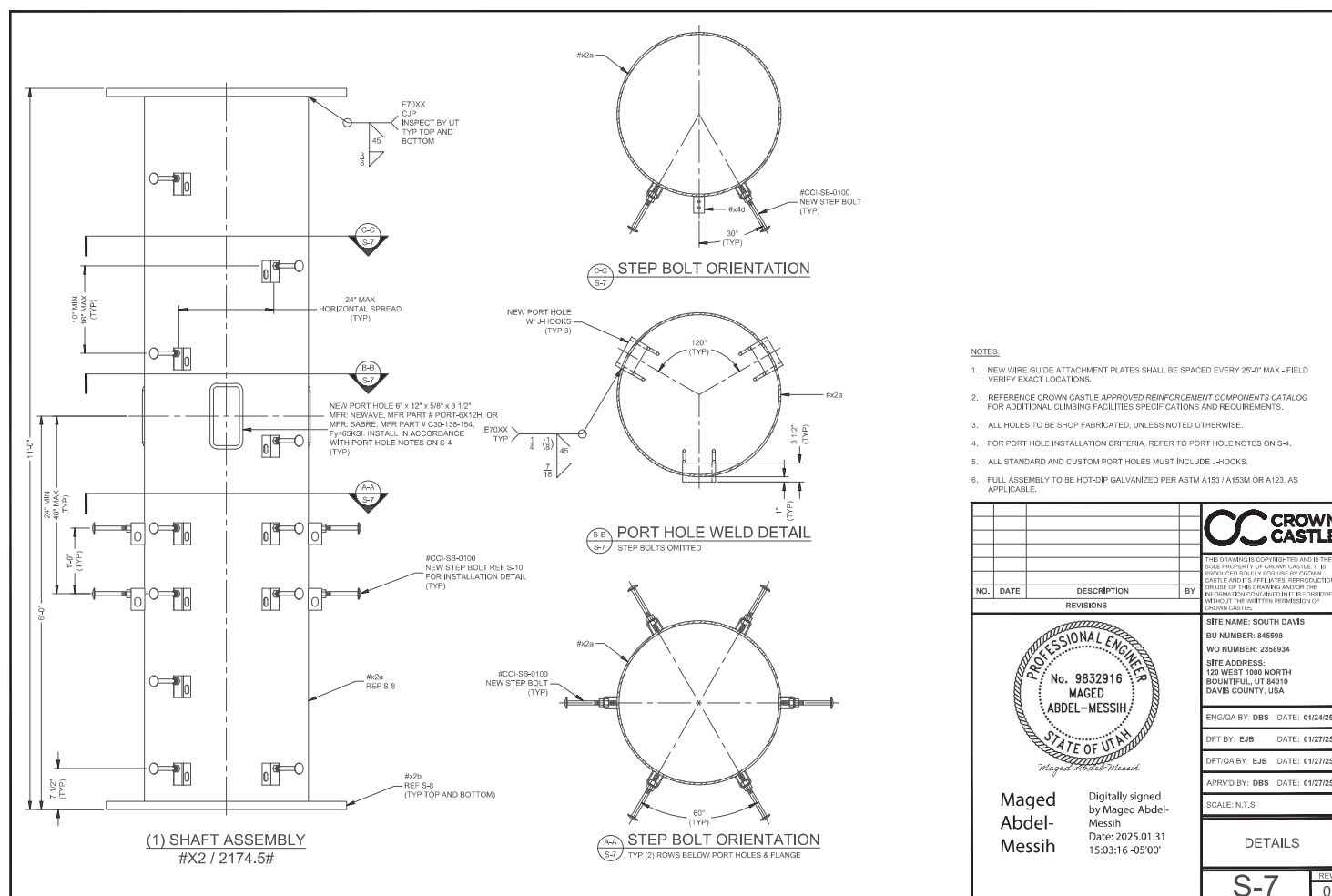
PORT HOLE NOTES

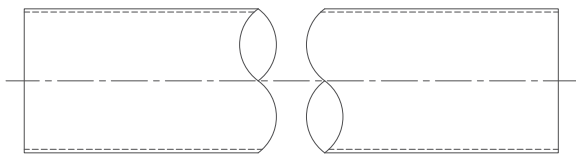
- 1. All surfaces of the port hole rim itself as well as all exterior structural steel areas affected by welding, including weld metal, shall be galvanized in accordance with ASTM A780.
- 2. The following criteria are required for adherence to this standard.
 - A. Use rim as template for cutting hole in monopole. Care shall be taken to minimize the root opening (AWS tolerances allow a maximum of 0.19").
 - B. Provide minimum 24" clear vertical separation between rim and other openings in monopole. Align ports on same azimuth as existing ports.
 - C. Maximum variance of port hole center elevation shall not be greater than 6".
 - D. Provide 90° minimum radial separation or two times the hole width clear circumferential separation between rim and adjacent opening in monopole, whichever is greatest. 18-sided pole with 4 ports shall not be allowed.
 - E. Edge of opening for the exit port must be at least 24" from splice.
 - F. Grind all edges of cut opening, achieving a bevel angle of 45° and removing the zinc from the weld area plus 1/4". Ensure all weld areas and surfaces are clean and free of zinc and loose particles. Zinc shall not be allowed to contaminate the weld.
 - G. Position the rim as required and securely tack weld. Finish welding the rim with bevel weld and reinforcing fillet weld size as determined from the design method.
 - H. Repair with galvanized coating. Both inside and outside should be brush-coated with 2 coats of zinc-rich paint. Apply in strict accordance with the manufacturer's recommendations. Paint over repaired surfaces to match monopole.

			
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			DFT/QA BY: EJB DATE: 01/27/25
			APRVD BY: DBS DATE: 01/27/25
			SCALE: N.T.S.
			NOTES
			S-4
			REV: 0

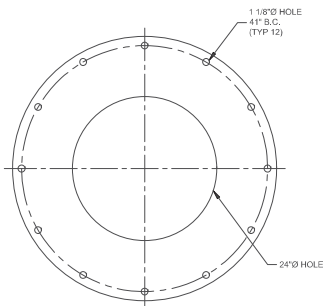




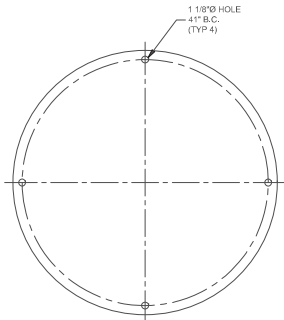




(1) P 30.000 x 0.375 x 10'-9" LONG (A53-B-35)
#x3a / 1276.7#



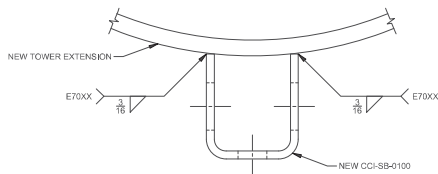
(3) PL 1 1/2 x 44Ø (A572-50)
(1) #X1 / 448.9#
(2) #x2b / 448.9#



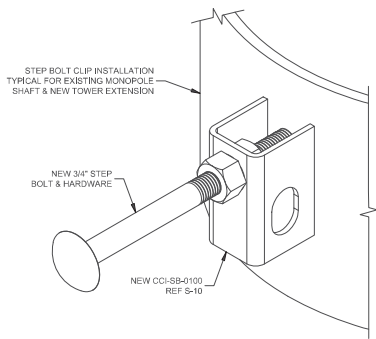
(1) PL 1/4 x 44Ø (A36)
#X3 / 107.4#

- NOTES:
- 1. FABRICATION TOLERANCES: FRACTIONS ± 1/16"
ANGLES ± 1/2 DEGREE
DECIMALS ± .010"
BOLT HOLES ± 1/32"
 - 2. ALL HOLES TO BE SHOP FABRICATED, UNLESS NOTED OTHERWISE.

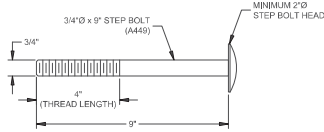
		
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NO.	DATE	DESCRIPTION
REVISIONS		
BY		
		
Maged Abdel-Messih		
Digitally signed by Maged Abdel-Messih Date: 2025.01.31 15:03:35 -05'00'		
SITE NAME: SOUTH DAVIS BU NUMBER: 845598 WO NUMBER: 2358934 SITE ADDRESS: 120 WEST 1000 NORTH BOUNTIFUL, UT 84010 DAVIS COUNTY, USA		
ENG'G BY: DBS DATE: 01/24/25		
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APRVD BY: DBS DATE: 01/27/25		
SCALE: N.T.S.		
DETAILS		
S-8		REV: 0



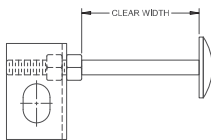
STEP BOLT CLIP WELD DETAIL



STEP BOLT CLIP
INSTALLATION DETAIL



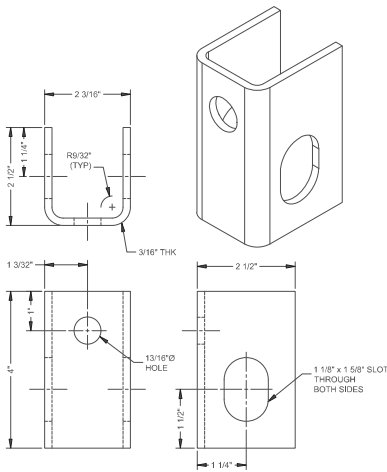
STEP BOLT



STEP BOLT DETAIL

- NOTES:
- 1. STEP BOLT CLIP WELDS ARE SUBJECT TO AWS D1.1 AND MUST BE INSPECTED BY A CWI. REFER TO DOCUMENT "ENG-STD-10069 GC CWI REQUIREMENT STANDARD" FOR CWI REQUIREMENTS.
 - 2. STEP BOLT CLIPS SHALL BE SHOP WELDED.
 - 3. STEP BOLT CLIPS SHALL BE WELDED IN PLACE PRIOR TO HOT DIP GALVANIZING THE WELDMENT.
 - 4. CONTRACTOR SHALL USE ALL NEW STEP BOLTS AND HARDWARE.
 - 5. CENTER TO CENTER STAGGERED SPACING SHOULD BE MATCHED TO EXISTING FIELD CONDITIONS. STAGGERED SPACING SHALL BE A MINIMUM OF 10" AND MAXIMUM OF 16", IN THE VERTICAL DIRECTION.
 - 6. HORIZONTAL SPREAD IS NOT TO EXCEED 24".
 - 7. STEP BOLT MATERIAL SHALL MEET THE REQUIREMENTS OF ASTM A449 AND SHALL BE TESTED AS FINISHED STEP BOLTS AT TEST FREQUENCY P (PIECE TESTING) OF ASTM A675 TO MEET MINIMUM ABSORBED ENERGY REQUIREMENT AT -20 DEGREES F (-29 DEGREES C) OF 15 FT-LBS (20 J) AVERAGE FOR 3 SPECIMENS AND A MINIMUM OF 12 FT-LBS (16 J) FOR ANY 1 SPECIMEN IN ACCORDANCE WITH ASTM A370.
 - 8. STEP BOLTS SHALL BE INSTALLED USING DOUBLE NUTS. A STEP BOLT INSTALLED IN A STEP BOLT CLIP SHALL BE TURNED WITH THE OUTER NUT LOOSE UNTIL THE END OF THE STEP BOLT MAKES CONTACT WITH THE SUPPORTING MEMBER. THE OUTER STEP BOLT NUT SHALL THEN BE TIGHTENED TO A SNUG TIGHT CONDITION AND PRETENSIONED BY ROTATING THE OUTER NUT 1/3 TURN.
 - 9. THE DEFAULT STEP BOLT CLIP SHALL BE USED WHERE POSSIBLE ON NEW REINFORCING ELEMENTS. IF IT-AP PROHIBITS ITS USE, THE ALTERNATIVE STEP BOLT CLIP OR NEXGEN2 STEP BOLT ADAPTER SHALL BE USED IN THESE LOCATIONS.

		
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NO.	DATE	DESCRIPTION
REVISIONS		
 Maged Abdel-Messih Digitally signed by Maged Abdel-Messih Date: 2025.01.31 15:03:59 -05'00'		
SITE NAME: SOUTH DAVIS BU NUMBER: 845598 WO NUMBER: 2358934 SITE ADDRESS: 120 WEST 1800 NORTH BOUNTIFUL, UT 84010 DAVIS COUNTY, USA		
ENG/CA BY: DBS DATE: 01/24/25 DFT BY: EJB DATE: 01/27/25 DFT/QA BY: EJB DATE: 01/27/25 APRVD BY: DBS DATE: 01/27/25		
SCALE: N.T.S.		
DETAILS		
S-9		REV: 0



DEFAULT STEP BOLT CLIP WITH ANCHORAGE POINT (A572-50)

NOTE:

- 1. STEP BOLT CLIP HOLES SHALL BE SHOP DRILLED OR PUNCHED.
- 2. ACCEPTABLE SUBSTITUTES FOR ASTM A572-50 INCLUDE A36, AND ASTM A1011A1018 HSLAS GRADE 50 CLASS 1 OR 2.

NO.	DATE	DESCRIPTION	BY
REVISIONS			

Maged Abdel-Messih
Digitally signed by Maged Abdel-Messih
Date: 2025.01.31 15:04:30 -05'00'

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SITE NAME: SOUTH DAVIS
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120 WEST 1000 NORTH
BOUNTIFUL, UT 84010
DAVIS COUNTY, USA

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SCALE: N.T.S.

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