ADDENDUM #3 – FEBRUARY 22, 2024

RE: **NORTH BAY FIRE STATION**
Seismic Upgrade and Addition
Project #21.59

FROM: HGE ARCHITECTS, Inc.
333 South 4th Street
Coos Bay, Oregon 97420
541-269-1166

TO: Prospective Bidders

This Addendum forms a part of the Contract Documents and modifies the original Documents dated January 2024, as noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

This Addendum consists of **FOUR (4)** page(s) together with the following attachments:

- **REVISED Specification Section 08-3613 Sectional Doors**
- **REVISED Specification Section 08-5313 Vinyl Windows**
- **NEW Specification Section 09-6700 Fluid-Applied Flooring**
- **NEW Specification Section 09-7800 Interior Wall Paneling**
- **REVISED Sheet G0.1 Site Plan**
- **REVISED Sheet A2.1 First Floor Plan – Base Bid**
- **REVISED Sheet A5.3 Opening Details**
- **REVISED Sheet S2.1 Structural – Foundation and First Floor Stud & Shear Wall Plan**
- **REVISED Sheet S2.2 Structural Roof Framing Plan**
- **REVISED Sheet S4.0 Structural Foundation Details**
- **NEW Sheet E3.0 Alternate Bid Fire Detection & Alarm**

CHANGES TO PROJECT MANUAL:

1. **Section 00-0110 Table of Contents:** Make the following changes:
   a. **Paragraph 2.05, B:** DELETE "B. 06-1733 – Wood I-Joists"
   b. **Paragraph 2.07:** DELETE "F. Door Schedule" and "G. Door Hardware Schedule".
   c. **Paragraph 2.08:** ADD "09-6700 Fluid-Applied Flooring" and "09-7800 Interior Wall Paneling".

2. **Section 06-1733 Wood I-Joists:** REMOVE section in entirety. Refer to Structural Drawings.

3. **Section 07-4646 Fiber Cement Siding:** Make the following changes:
   a. **Paragraph 1.01:** ADD "B. Rolled Rainscreen."
   b. **Paragraph 2.01:** ADD "C. Rolled Rainscreen:
   "1. Slicker Classic, manufactured by Benjamin Obdyke.

a. https://benjaminobdyke.com/product/slicker-classic-rainscreen/.
2. Substitutions: See Section 01-6000 – Product Requirements.
3. Product Description:
a. Provides a continuous space for drainage and drying, eliminating the threat of trapped moisture.
b. 0.25-inch thickness.
c. Roll width; 39.37 inches.
d. Composition; nylon."

4. **Section 08-3613 Sectional Doors:** REPLACE section in entirety with attached revised section.

5. **Section 08-5313 Vinyl Windows:** REPLACE section in entirety with attached revised section.

6. **Section 08-7100 Door Hardware:** Make the following changes:
   a. **Paragraph 3.06:** REVISE to: "Door and Hardware Schedule - See Drawings"
   b. **Paragraph 4.06, A.:** REVISE
   "HW-45.
      1. Hinges.
      2. Keypad lockset – Schlage AD200.
      3. Closer.
      4. Kickplate."

7. **Section 09-6500 Resilient Flooring:** Make the following changes:
   a. **Paragraph 2.01, A, 7:** REVISE to "a. Mohawk Group: Product Medella Fleck/Hues".
   b. **Paragraph 2.02, A:** REVISE to:
   "7. Color: To be selected from manufacturer's standard collection.
   8. Style: Basis of Design - Milliken "Lumenology."

8. **Section 09-6700 Fluid-Applied Flooring:** ADD attached section in entirety.

9. **Section 09-7800 Interior Wall Paneling:** ADD attached section in entirety.

CHANGES TO DRAWINGS:

1. **Sheet G0.1 Site Plan:** Sheet attached. See revised sheet for additional fire line notes.

2. **Sheet D1.0, Floor Plan – Demo – Base Bid:** DELETE "and verify cantilever" from note "Demo (E) wing wall as shown on floor plan, shore (E) beam, and verify cantilever."

3. **Sheet A2.1 First Floor Plan – Base Bid:** REPLACE with attached revised sheet. Summary of changes:
   a. DELETE indication of new footing along grid D, between Grids 2 & 4.
   b. ADD (6) bollards to exterior jamb of OHD, along Grid 1. Refer to specification section 05-5000.

4. **Sheet A2.3 Roof Plan, 1:** ADD note: “Existing antenna to remain in place and operational at all times. Provide typical boots around supports, as approved by roofing manufacturer.”

5. **Sheet A4.1 Building Elevations – Base Bid:** REPLACE note at flagpole with “Existing Flagpole to remain.”

6. **Sheet A5.3 Openings Details:** REPLACE with attached revised sheet. Make the following changes:
    - **a.** Detail 1/A5.3 – REPLACE detail in its entirety.
    - **b.** Detail 2/A5.3 – CHANGE wall depth to 10”. DELETE wood trim at overhead door track.
    - **c.** Detail 3/A5.1 – REPLACE detail in its entirety.
    - **d.** Detail 4/A5.3 – REPLACE detail in its entirety.
    - **e.** Detail 5/A5.3 – CHANGE double 2x4 stud in lieu of 2x8.
    - **f.** Detail 15/A5.3 – ADD detail in its entirety.

7. **Sheet A7.1 Door Schedule – Alternate Bid, Doors 25, 26, 27, &32:** REPLACE Type “P” with Type “A”.

8. **Sheet S2.1 Structural – Foundation and First Floor Stud & Shear Wall Plan:** Sheet attached. Make the following changes:
    - **a.** ADD HDU2 label to hold-down “Dot” shown on W6 shear wall along grid A.
    - **b.** Dowel Footings into (E) slab similar to Detail 10/S4.0.

9. **Sheet S2.2 Structural Roof Framing Plan:** REPLACE with attached revised sheet.

10. **Sheet S4.0 Structural Foundation Details:** REPLACE with attached revised sheet.

11. **Sheet P2.1, Note 8:** REPLACE “Civil” with “Detail 2/G0.1”.

12. **Sheet E3.0 Alternate Bid Fire Detection & Alarm:** ADD attached sheet. Summary of changes:
    - **a.** Base Bid Work – Fire Alarm: Relocate existing 4-zone Silent Knight panel as indicated on E2.1 to accommodate seismic upgrade. Provide all new cabling to existing devices to accommodate new structural components.
    - **b.** Alternate Bid No. 1 Work – Fire Alarm: Provide complete, new addressable fire alarm system as indicated. See Fire Alarm Design-Build plans E3.0 for minimum requirements.

SUBSTITUTION APPROVALS:

SPECIFIED SECTION	SPECIFIED ITEM	APPROVED
07-2500 Weather Barriers	Henry Co. Blueskin	Soprema Sopraseal Stick VP
08-7100 Door Hardware	Cylindrical Lockset	Corbin Russwin CLX3300
08-7100 Door Hardware	Mortise Lockset	Corbin Russwin ML2000
08-7100 Door Hardware	Exit Devices	Corbin Russwin ED5000
08-7100 Door Hardware	Closers	Norton 7500
Sheet E2.2 Light Fixture Schedule	Type C1	Justice Design Group
Sheet E2.2 Light Fixture Schedule	Type C4	Precision Architec
Sheet E2.2 Light Fixture Schedule	Type D10	VANTAGE LIGHTING Peachtree Lighting
Sheet E2.2 Light Fixture Schedule	Type D10E	Peachtree Lighting
Sheet E2.2 Light Fixture Schedule	Type D20	VANTAGE LIGHTING Peachtree Lighting
Sheet E2.2 Light Fixture Schedule	Type P1	Justice Design Group
Sheet E2.2 Light Fixture Schedule	Type W1	Envoy Lighting Ledalux
Sheet E2.2 Light Fixture Schedule	Type W2	PACE Illumination Snowball
Sheet E2.2 Light Fixture Schedule	Type X1	LUMEN FOCUS Mule Lighting

END OF ADDENDUM #3

SECTION 08-3613
SECTIONAL DOORS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Overhead sectional doors, electrically operated.

B. Operating hardware and supports.

C. Electrical controls.

1.02 RELATED REQUIREMENTS

A. Section 05-5000 - METAL FABRICATIONS: Steel channel opening frame.

B. Section 07-9005 Joint Sealers: Sealing joints between frames and adjacent construction.

C. Section 08-7100 - Door Hardware: Lock cylinders.

D. Section 26-0583 - Wiring Connections.

1.03 REFERENCE STANDARDS

A. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2015, with Editorial Revision (2016).

B. ASTM C1036 - Standard Specification for Flat Glass; 2016.

C. ASTM C1048 - Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass; 2012.

D. ASTM E330/E330M - Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference; 2014.

E. DASMA 102 - American National Standard Specifications for Sectional Overhead Type Doors; 2011.

F. ITS (DIR) - Directory of Listed Products; current edition.

G. NEMA ICS 2 - Industrial Control and Systems Controllers, Contactors and Overload Relays Rated 600 Volts; 2000 (R2005), with errata, 2008.

H. NEMA MG 1 - Motors and Generators; 2014.

I. NEMA 250 - Enclosures for Electrical Equipment (1000 Volts Maximum); 2014.

J. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

K. UL 325 - Standard for Door, Drapery, Gate, Louver, and Window Operators and Systems; Current Edition, Including All Revisions.

1.04 SUBMITTALS

A. See Section 01-3000 - Administrative Requirements for submittal procedures.

B. Shop Drawings: Indicate opening dimensions and required tolerances, connection details, anchorage spacing, hardware locations, and installation details.

C. Product Data: Show component construction, anchorage method, and hardware.

D. Manufacturer's Installation Instructions: Include any special procedures required by project conditions.

E. Operation Data: Include normal operation, troubleshooting, and adjusting.

F. Maintenance Data: Include data for motor and transmission, shaft and gearing, lubrication frequency, spare part sources.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.

B. Installer Qualifications: Company specializing in performing work of type specified and with at least three years documented experience.

C. Comply with applicable code for motor and motor control requirements.

D. Products Requiring Electrical Connection: Listed and classified by ITS (DIR), UL (DIR), or testing firm acceptable to authorities having jurisdiction, as suitable for purpose specified.

1.06 WARRANTY

A. See Section 01-7800 - Closeout Submittals for warranty requirements.

B. Extended Correction Period: Correct defective work within a 2-year period commencing on Date of Substantial Completion.

C. Manufacturer Warranty:
   1. Provide 3-year/20,000 cycle manufacturer warranty on door and electric operating equipment. Complete forms in Owner's name and register with manufacturer.
   2. Provide 1-year manufacturer warranty on door.
   3. Provide 10-year manufacturer warranty against panel delimination of foam and steel skins.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Sectional Doors:
   1. Overhead Doors - Thermacore Model 596, Basis of Design.
   2. Wayne-Dalton, a Division of Overhead Door Corporation: www.wayne-dalton.com/#sle.
   3. Substitutions: See Section 01-6000 - Product Requirements.

2.02 PERFORMANCE REQUIREMENTS

A. Performance: Withstand positive and negative wind loads of 25 lb/sq ft without damage or permanent set, when tested in accordance with ASTM E330/E330M, using 10 second duration of maximum load.

B. Structural design criteria:
   1. Risk Category IV.
   2. Ultimate wind speed = 106 mph.
   3. Exposure B.
   4. Risk Category IV.
   5. Seismic Category D.

2.03 STEEL DOORS

A. Doors: Stile and rail steel with solid and glazed panels; standard lift operating style with track and hardware; complying with DASMA 102, Commercial application.
   1. Door Panels: Steel construction; outer steel sheet of 20 gage minimum thickness, flush profile; inner steel sheet of 24 gauge, 0.0239 inch minimum thickness, flat profile; core reinforcement sheet steel roll formed to channel shape, rabbeted weather joints at meeting rails; polyurethane insulation.
   2. Door Nominal Thickness: 2 inches thick.
   3. Exterior Finish:
      a. Factory finished with polyester baked enamel; color as selected by Architect.
   4. Interior Finish:
      a. Factory finished with polyester baked enamel; color as selected from manufacturers standard line.
   5. Thermal Resistance: R-value of 17, minimum, for overall thickness indicated.
   6. Glazed Lites: Full panel width, full aluminum sash section, one row; set in place with resilient glazing channel, insulated glass.
      a. Glazing: Annealed float glass; insulated glass units; clear; 1/2 inch nominal overall thickness.
      b. Refer to Drawings for location and layout of glazed lites.
   7. Manual Operation: Chain hoist.
   8. Electric Operation: Electric control station.
   9.

2.04 COMPONENTS

A. Track: Rolled galvanized steel, 0.090 inch minimum thickness; 3 inch wide, continuous one piece per side; galvanized steel mounting brackets 1/4 inch thick.
   1. Low Headroom Track required, 14" clear.

B. Hinge and Roller Assemblies: Heavy duty hinges and adjustable roller holders of galvanized steel; floating hardened steel bearing rollers, located at top and bottom of each panel, each side.

C. Lift Mechanism: Torsion spring on cross head shaft, with braided galvanized steel lifting cables.
   1. For Manual Operation: Requiring maximum exertion of 25 lbs force to open.

D. Sill Weatherstripping: Resilient hollow rubber strip, one piece; fitted to bottom of door panel, full length contact.

E. Jamb Weatherstripping: Roll formed steel section full height of jamb, fitted with resilient weatherstripping, placed in moderate contact with door panels.

F. Head Weatherstripping: EPDM rubber seal, one piece full length.

G. Panel Joint Weatherstripping: Neoprene foam seal, one piece full length.

H. Lock: Inside center mounted, adjustable keeper, spring activated latch bar with feature to retain in locked or retracted position; interior and exterior handle.

2.05 MATERIALS

A. Sheet Steel: Hot-dipped galvanized steel sheet, ASTM A653/A653M, with G60/Z180 coating, plain surface.

B. Float Glass: Provide float glass glazing, unless noted otherwise.
1. Annealed Type: ASTM C1036, Type I, transparent flat, Class 1 clear, Quality Q3 (glazing select).
2. Heat-Strengthened and Fully Tempered Types: ASTM C1048.

2.06 ELECTRIC OPERATION

A. Operator, Controls, Actuators, and Safeties: Comply with UL 325; provide products listed by ITS (DIR), UL (DIR), or testing agency acceptable to authorities having jurisdiction.
1. Provide interlock switches on motor operated units.

B. Electric Operators:
1. Mounting: Center mount, with draw bar type operator.
2. Motor Enclosure:
   a. Exterior Doors: NEMA MG 1, Type 4; open drip proof.
3. Motor Rating: 1 hp; continuous duty. Verify motor size with door size,
4. Motor Voltage: 120 volts, single phase, 60 Hz.
5. Motor Controller: NEMA ICS 2, full voltage, reversing magnetic motor starter.
6. Controller Enclosure: NEMA 250, Type 1.
7. Opening Speed: 12 inches per second maximum, 2/3 foot per second minimum.
8. Brake: Adjustable friction clutch type, activated by motor controller.
9. Manual override in case of power failure.
10. See Section 26-0583 for electrical connections.
11. Model: Overhead Doors RHX - Basis of Design.

C. Motor: NEMA MG 1, Type 1.

D. Wiring Terminations: Provide terminal lugs to match branch circuit conductor quantities, sizes, and materials indicated; enclose terminal lugs in terminal box sized to comply with NFPA 70.

E. Control Station: Provide standard three button (Open-Close-Stop) momentary-contact control device for each operator complying with UL 325.
1. 24 volt circuit.
2. Surface mounted, at interior door jamb.
3. Entrapment Protection Devices: Provide sensing devices and safety mechanisms complying with UL 325.
   a. Primary Device: Provide electric sensing edge, wireless sensing, NEMA 1 photo eye sensors, or NEMA 4X photo eye sensors as required with momentary-contact control device.

F. Disconnect Switch: Factory mount disconnect switch in control panel.

G. Electric Operator: Side mounted on cross head shaft, adjustable safety friction clutch; brake system actuated by independent voltage solenoid controlled by motor starter; enclosed gear

driven limit switch; enclosed magnetic cross line reversing starter; mounting brackets and hardware.

H. Safety Edge: Located at bottom of sectional door panel, full width; electro-mechanical sensitized type, wired to stop and reverse door direction upon striking object; hollow neoprene covered to provide weatherstrip seal.

I. Photo eye: Photoelectric sensors monitored to meet UL 325/2010.

J. Control Station: Standard three button (open-close-stop) momentary type control for each electric operator.
   1. 24 volt circuit.
   2. Surface mounted.
   3. Locate at inside door jamb.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that wall openings are ready to receive work and opening dimensions and tolerances are within specified limits.

B. Verify that electric power is available and of the correct characteristics.

3.02 PREPARATION

A. Prepare opening to permit correct installation of door unit to perimeter air and vapor barrier seal.

B. Apply primer to wood frame.

3.03 INSTALLATION

A. Install door unit assembly in accordance with manufacturer's instructions.

B. Anchor assembly to wall construction and building framing without distortion or stress.

C. Securely brace door tracks suspended from structure. Secure tracks to structural members only.

D. Fit and align door assembly including hardware.

E. Coordinate installation of electrical service. Complete power and control wiring from disconnect to unit components.

F. Install perimeter trim.

3.04 TOLERANCES

A. Maximum Variation from Plumb: 1/16 inch.

B. Maximum Variation from Level: 1/16 inch.

C. Longitudinal or Diagonal Warp: Plus or minus 1/8 inch from 10 ft straight edge.

D. Maintain dimensional tolerances and alignment with adjacent work.

3.05 ADJUSTING

A. Adjust door assembly for smooth operation and full contact with weatherstripping.

B. Have manufacturer's field representative present to confirm proper operation and identify adjustments to door assembly for specified operation.

3.06 CLEANING

A. Clean doors and frames and glazing.

B. Remove temporary labels and visible markings.

3.07 PROTECTION

A. Protect installed products from damage until Date of Substantial Completion.

B. Do not permit construction traffic through overhead door openings after adjustment and cleaning.

END OF SECTION

SECTION 08-5313
VINYL WINDOWS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Vinyl-framed, factory-glazed windows.

B. Factory fabricated tubular extruded plastic windows with fixed and operating sash.

C. Operating hardware.

D. Insect screens.

1.02 RELATED REQUIREMENTS

A. Section 07-2500 - Weather Barriers: Sealing frames to water-resistive barrier installed on adjacent construction.

B. Section 07-9005 - Joint Sealers: Perimeter sealant and back-up materials.

1.03 REFERENCE STANDARDS

A. AAMA/WDMA/CSA 101/I.S.2/A440 - North American Fenestration Standard/Specification for windows, doors, and skylights; 2017.

B. ASTM E1423 - Standard Practice for Determining the Steady State Thermal Transmittance of Fenestration Systems; 2014.

C. ASTM E2112 - Standard Practice for Installation of Exterior Windows, Doors and Skylights; 2007 (Reapproved 2016).

D. FS L-S-125 - Screening, Insect, Nonmetallic; Federal Specifications and Standards; Revision B, 1972.

1.04 SUBMITTALS

A. See Section 01-3000 - Administrative Requirements for submittal procedures.

B. Product Data: Provide component dimensions, anchors, fasteners, glass, and internal drainage.

C. Grade Substantiation: Prior to submitting shop drawings or starting fabrication, submit one of the following showing compliance with specified grade:
   1. Evidence of AAMA Certification.
   2. Evidence of WDMA Certification.
   3. Evidence of CSA Certification.
   4. Test report(s) by independent testing agency itemizing compliance and acceptable to authorities having jurisdiction.

D. Warranty Documentation: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Protect finished surfaces with wrapping. Do not use adhesive papers or sprayed coatings that bond when exposed to sunlight or weather.

B. Jig, brace, and box the window frame assemblies for transport to minimize flexing of members or joints.

1.06 WARRANTY

A. See Section 01-7800 - Closeout Submittals for additional warranty requirements.

B. Provide lifetime year manufacturer warranty for insulated glass units from seal failure, interpane dusting or misting, and replacement of same. Include coverage for degradation of color finish.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Vinyl Windows:
   1. JeldWen Premium Vinyl Windows, V-4500 Series.
   2. Milgard Style Line, Tuscany Series.
   3. Substitutions: See Section 01-6000 - Product Requirements.

2.02 DESCRIPTION

A. Vinyl Windows: Factory fabricated frame and sash members of extruded, hollow, ultra-violet-resistant, polyvinyl chloride (PVC) with integral color; with factory-installed glazing, hardware, related flashings, anchorage and attachment devices.
   1. Configuration: As indicated on drawings.
      a. Product Type: C - Casement window, FW - Fixed window, H - Hung window, vertically sliding, and HS - Horizontal sliding window in accordance with AAMA/WDMA/CSA 101/I.S.2/A440.
   2. Sliding Glass Doors: Match window frame style and color.
   3. Color: Color as selected.
   4. Size to fit openings with minimum clearance around perimeter of assembly providing necessary space for perimeter seals.
   5. Framing Members: Fusion welded corners and joints, with internal reinforcement where required for structural rigidity; concealed fasteners.
   6. System Internal Drainage: Drain to exterior side by means of weep drainage network any water entering joints, condensation within glazing channel, or other migrating moisture within system.
   7. Glazing Stops, Trim, Flashings, and Accessory Pieces: Formed of rigid PVC, fitting tightly into frame assembly.

B. Performance Requirements: Provide products that comply with the following:
   1. Grade: AAMA/WDMA/CSA 101/I.S.2/A440 requirements for specific window type:
      a. Performance Class (PC): R.
   2. Performance Validation: Windows shall comply with AAMA/WDMA/CSA 101/I.S.2/A440 performance requirements as indicated by having AAMA, WDMA, or CSA certified label, or an independent test report for indicated products itemizing compliance and acceptable by authorities having jurisdiction.

2.03 COMPONENTS

A. Glazing: Insulated double pane, annealed glass, clear, low-E coated, argon filled, with glass thicknesses as recommended by manufacturer for specified wind conditions and acoustic rating indicated.

B. Windows: Extruded, hollow, tubular, ultra-violet resistant polyvinyl chloride (PVC) with integral color; factory fabricated; with vision glass, related flashings, anchorage and attachment devices.
   1. Performance Requirements: AAMA/WDMA/CSA 101/I.S.2/A440 R15.
   2. Configuration: Fixed, non-operable, outward opening, top hinged, horizontal sliding, and double hung sash.
   3. Color: White.

C. Frames: Standard profile; flush glass stops of screw fastened type.

D. Insect Screens: Aluminum, extruded or roll-formed frame with mitered and reinforced corners; apply screen mesh taut to frame; secure to window with hardware to allow easy removal.
   1. Hardware: Manufacturer's standard; quantity as required per screen.
   2. Screen Mesh: Vinyl-coated fiberglass, window manufacturer's 18 x 16 mesh.
   3. Frame Finish: Manufacturer's standard, color to match window frame and sash color.

E. Insect Screen Frame: Rolled aluminum frame of rectangular sections; fit with adjustable hardware; nominal size similar to operable glazed unit.

F. Insect Screens: Woven aluminum mesh; 14/18 mesh size.
   1. Color: Black.

G. Fasteners: Stainless steel.

H. Accessories: Provide related flashings, anchorage and attachment devices as necessary for full assembly.

2.04 HARDWARE

A. Horizontal Sliding Sash: Rigid PVC interfacing tracks with dual brass wheel and stainless steel axle assembly housing, provide two sets for each operating sash and opening stops in head and sill track as required.

B. Vertical Sliding Sash: Metal and nylon spiral friction slide cylinder, provide two for each sash and jamb.

C. Sash lock: Lever handle and keeper with cam lock, provide at least one for each operating sash.

D. Finish For Exposed Hardware: Stainless Steel.

2.05 FABRICATION

A. Fabricate framing, mullions and sash members with fusion welded corners and joints, in a rigid jig. Supplement frame sections with internal reinforcement where required for structural rigidity.

B. Form snap-in glass stops, closure molds, weather stops, and flashings of extruded PVC for tight fit into window frame section.

C. Arrange fasteners to be concealed from view.

D. Permit internal drainage weep holes and channels to migrate moisture to exterior. Provide internal drainage of glazing spaces to exterior through weep holes.

E. Factory glaze window units.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install window unit assemblies in accordance with manufacturers instructions and applicable building codes.

B. Attach window frame and shims to perimeter opening to accommodate construction tolerances and other irregularities as necessary.

C. Align window plumb and level, free of warp or twist, and maintain dimensional tolerances and alignment with adjacent work.

3.02 ADJUSTING

A. Adjust hardware for smooth operation and secure weathertight closure.

3.03 CLEANING

A. Remove protective material from pre-finished surfaces.

B. Wash surfaces by method recommended and acceptable to window manufacturer; rinse and wipe surfaces clean.

C. Remove excess glazing sealant by moderate use of mineral spirits or other solvent acceptable to sealant manufacturer and appropriate for application indicated.

END OF SECTION

SECTION 09-6700
FLUID-APPLIED FLOORING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Floor preparation and existing coating removal.

B. Fluid-applied flooring and base.

1.02 RELATED REQUIREMENTS

A. 01-2300 - Alternates; additional Fluid-Applied Flooring.

1.03 REFERENCE STANDARDS

A. ASTM F710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring; 2017.

B. ASTM F1869 - Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride; 2016a.

C. ASTM F2170 - Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes; 2017.

1.04 SUBMITTALS

A. See Section 01-3000 - Administrative Requirements, for submittal procedures.

B. Product Data: Provide data on specified products, describing physical and performance characteristics; sizes, patterns and colors available.

C. Manufacturer's Qualification Statement.

D. Applicator's Qualification Statement.

E. Maintenance Data: Include maintenance procedures, recommended maintenance materials, procedures for stain removal, repairing surface, and suggested schedule for cleaning.

F. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
   1. See Section 01-6000 - Product Requirements, for additional provisions.
   2. Extra Top Coat Materials: 2 gallons.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum three years documented experience.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Store resin materials in a dry, secure area.

B. Store materials for three days prior to installation in area of installation to achieve temperature stability.

1.07 FIELD CONDITIONS

A. Maintain minimum temperature in storage area of 55 degrees F.

B. Store materials in area of installation for minimum period of 24 hours prior to installation.

C. Maintain ambient temperature required by manufacturer 72 hours prior to, during, and 24 hours after installation of materials.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Fluid-Applied Flooring:
   1. Crossfield Products Corp: www.crossfieldproducts.com/#sle.
   2. Sika Corporation: www.sikafloorusa.com/#sle.
   3. Substitutions: See Section 01-6000 - Product Requirements.

2.02 FLUID-APPLIED FLOORING SYSTEMS

A. Fluid-Applied Flooring: Epoxy base coat(s), polyurethane top coat, no aggregate.
   1. System Thickness: 43-45 mils, nominal, when dry.
   2. Texture: Orange peel.
   3. Sheen: Matte.
   4. Color: Refer to Interior Finish Schedule.
   5. Basis of Design Product: Sikafloor Morritex Broadcast System.
      a. Compressive strength: ASTM C579, 8702 psi.
      b. Tensile strength: ASTM C307, 1653 psi.
      c. Hardness (Shore D): ASTM D2240, 82.
      d. Composition, system build up:
         1) Primer: 8-10 mil, Sikafloor 161.
         2) Body Coat: 16 mil, Sikafloor 510 plus broadcast Quartz to Rejection.
         3) Top coat: 16 mil, Sikafloor 264.

2.03 ACCESSORIES

A. Base Caps: Extruded rigid PVC with projecting base of 1/8 inch; matching color.

B. Cant Strips: Molded of flooring resin material.

C. Subfloor Filler: Type recommended by fluid-applied flooring manufacturer.

D. Primer: Type recommended by fluid-applied flooring manufacturer.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that subfloor surfaces are smooth and flat within the tolerances specified for that type of work and are ready to receive flooring.

B. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive flooring.

C. Verify that subfloor surfaces are dust-free and free of substances that could impair bonding of materials to subfloor surfaces.

D. Cementitious Subfloor Surfaces: Verify that substrates are ready for fluid-applied flooring installation by testing for moisture and alkalinity (pH).
   1. Test as Follows:
      a. Alkalinity (pH): ASTM F710.
      b. Internal Relative Humidity: ASTM F2170.
      c. Moisture Vapor Emission: ASTM F1869.
   2. Obtain instructions if test results are not within limits recommended by fluid-applied flooring manufacturer.

3.02 PREPARATION

A. Remove subfloor ridges and bumps. Fill low spots, cracks, joints, holes, and other defects with subfloor filler.

B. Remove existing coatings on slab area designated for fluid applied flooring. Protect adjacent surfaces.

C. Apply, trowel, and float filler to achieve smooth, flat, hard surface. Grind irregularities above the surface level. Prohibit traffic until filler is cured.

D. Vacuum clean substrate.

E. Apply primer to surfaces required by flooring manufacturer.

3.03 INSTALLATION - ACCESSORIES

A. Install cant strips at base of walls where flooring is to be extended up wall as base.

B. Provide 4 inch cove base.

C. Install terminating cap strip at top of base; attach securely to wall substrate.

3.04 INSTALLATION - FLOORING

A. Apply in accordance with manufacturer's instructions.

B. Apply each coat to minimum thickness indicated.

C. Finish to smooth level surface.

3.05 FIELD QUALITY CONTROL

A. See Section 01-4000 - Quality Requirements, for additional requirements.

3.06 PROTECTION

A. Prohibit traffic on floor finish for 48 hours after installation.

B. Barricade area to protect flooring until fully cured.

END OF SECTION

SECTION 09-7800
INTERIOR WALL PANELING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Decorative plastic wall paneling.

B. Accessories.

1.02 REFERENCE STANDARDS

A. ASTM D256 - Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics; 2010, with Editorial Revision (2015).

B. ASTM D5319 - Standard Specification for Glass-Fiber Reinforced Polyester Wall and Ceiling Panels; 2017.

C. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2015a.

1.03 SUBMITTALS

A. See Section 01-3000 - Administrative Requirements, for submittal procedures.

B. Product Data: Submit manufacturer's descriptive literature for each specified product. Include anchorage devices specific to project substrate types.

C. Samples: Submit two samples 12 by 12 inches in size, indicating finish, surface design, and color for each type of panels.

1.04 DELIVERY, STORAGE, AND HANDLING

A. Deliver products to project site in manufacturer's original packaging, marked with manufacturer's product identification.

B. Store panels flat, indoors, on a clean, dry surface. Remove packaging and allow panels to acclimate to room temperature for 48 hours prior to installation.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Decorative Plastic Wall Paneling:
   1. Crane Composites, Inc; Glasbord with Surfaseal: www.glasbord.com.
   2. Marlite, Inc; FRP: www.marlite.com/#sle.
   3. Nudo Products, Inc; FiberLite FRP: www.nudo.com/#sle.
   4. Substitutions: See Section 01 6000 - Product Requirements.

2.02 REGULATORY REQUIREMENTS

A. Surface Burning Classification: Provide wall paneling assemblies meeting Class C when tested in accordance with ASTM E84.

2.03 DECORATIVE PLASTIC WALL PANELING

A. Fiberglass Reinforced Plastic (FRP) Wall Panels, available in textured and smooth surfaces, provide ultimate durability, satisfying the most stringent demands, water-resistant, low maintenance material.
   1. Panel Size: 4 by 8 feet.
   2. Panel Thickness: .090 inch.
   3. Smooth surface.
   4. Material: Fiberglass reinforced plastic (FRP), complying with ASTM D5319.
      a. Impact Strength: Greater than 6 ft lbf/in, when tested in accordance with ASTM D256.
   5. Edges: Square.

B. Accessories:
   1. Trim:
      a. Material: PVC.
      b. Color/Finish: Match panel color.
      c. Divider Bars: Manufacturer's standard, matching and aligning with design pattern.
      d. Inside Corner Trim: Standard angle.
      e. Outside Corner Trim: Standard angle.
      f. Edge Trim: Manufacturer's standard shape.
   2. Adhesive: Type recommended by panel manufacturer.
   3. Sealant: Type recommended by paneling manufacturer; clear.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that substrate surfaces for adhered items are clean and smooth.
   1. Test painted or wall covering surfaces for adhesion in inconspicuous area, as recommended by manufacturer.

B. Start of installation constitutes acceptance of project conditions.

3.02 INSTALLATION

A. Install panels in accordance with manufacturer's instructions.

B. Apply adhesive to back side of panel using trowel recommended by adhesive manufacturer.

C. Apply panels to wall with vertical joints plumb and horizontal joints level and pattern aligned with adjoining panels.

D. Using a roller, apply pressure to panel face to ensure proper adhesion between surfaces.

E. Install panels with manufacturer's recommended gaps for panel field and corner joints.

F. Fill channels in trim with sealant before mounting to panel.

G. Install trim with adhesive.

H. Seal joints at wall base and between panels with approved sealant to prevent moisture intrusion.

I. Remove excess sealant after paneling is installed and prior to curing.

3.03 PROTECTION

A. Protect installed interior wall paneling from subsequent construction operations.

END OF SECTION

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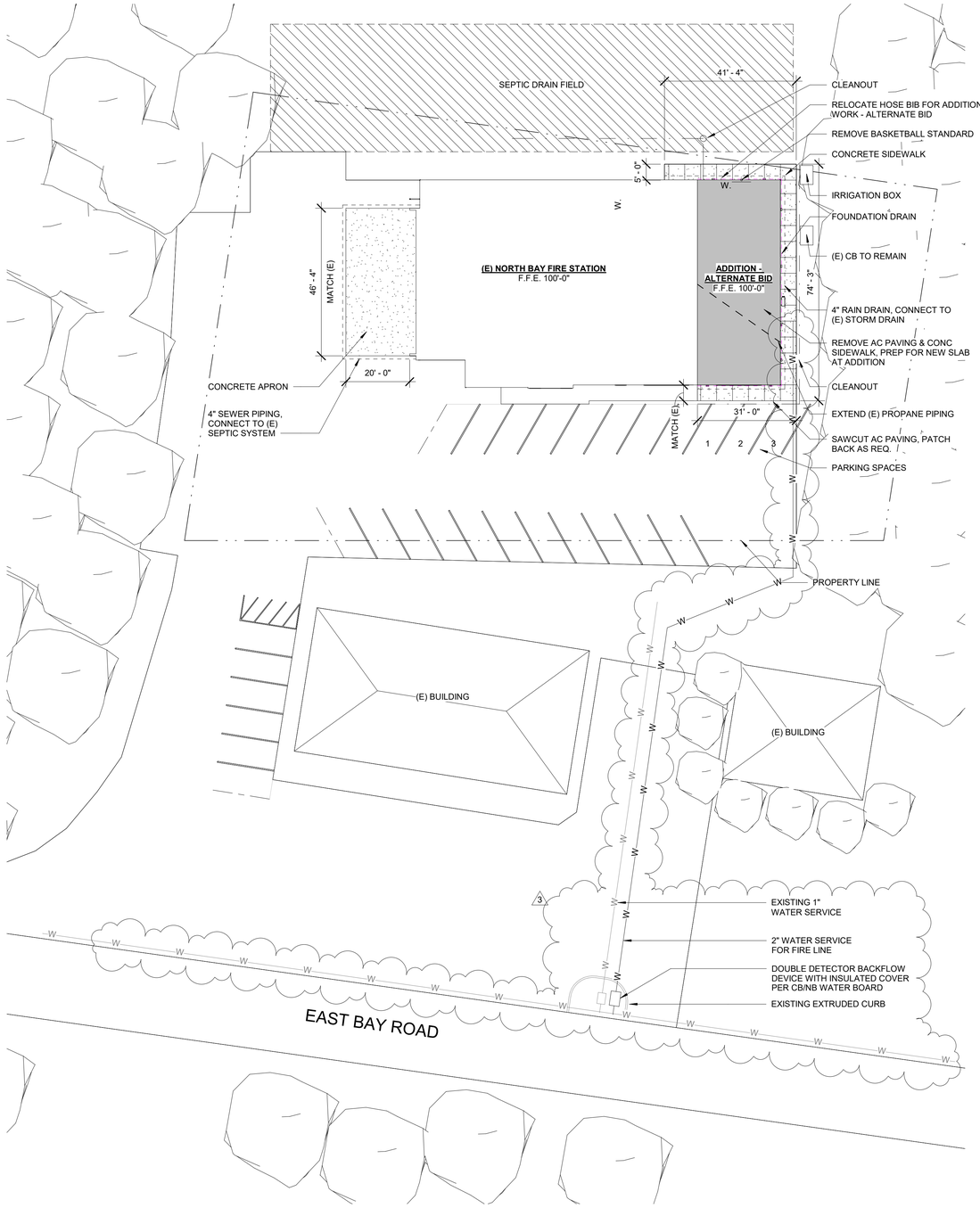


TRUE NORTH PLAN NORTH

2 SITE PLAN - BASE BID

1" = 20'-0"

CODE SUMMARY

CODE: Oregon Structural Specialty Code – 2022

USE & OCCUPANCY: Section 304 Group B, Business
Section 310 Group R-2 - Residential
Section 311 Group S-1, Moderate hazard storage

TABLE 1004.5- MAX FLOOR AREA ALLOWANCE PER OCCUPANT
Business: 1977 sf/150 = 14 occs
Storage - Vehicle Support: 3830 sf/200 = 20 occs
Residential: 332 sf/200 = 2 occs

CONSTRUCTION TYPE: (E) Fire Station - Section 602.5, Type V-B, Non-Protected, Non-Sprinklered

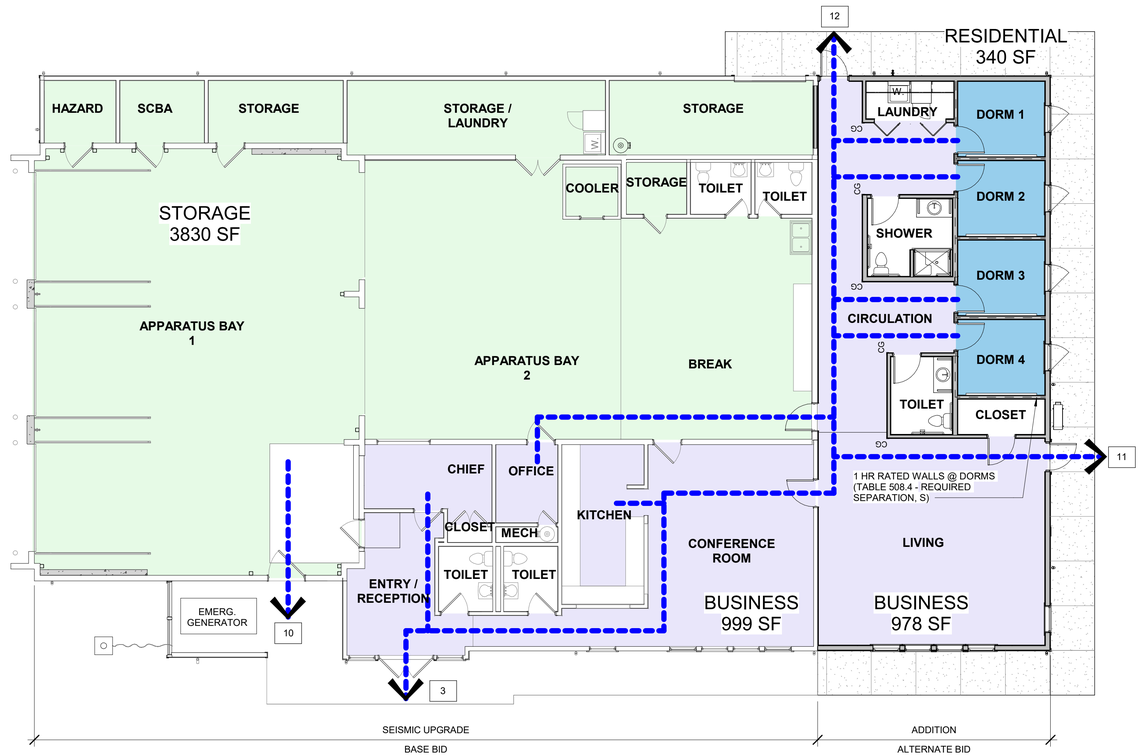
ALLOWABLE BUILDING HEIGHTS & AREAS: Tables 504.3, 504.4, 506.2
(E): Group B, Type V-B, Non-Sprinklered – 9,000 sf, Two-Story, 40 ft Ht.

Actual Area: 5,017 sf (E), 1,534 sf Addition

903.3.1.2 NFPA 13R Sprinkler systems @ R-2 occupancies (dorm rooms) - 1 hr rated walls.

OCCUPANT LOAD - ALTERNATE BID

Number	Name	Area	Occupancy	Code_Room Exits	Code_Room OCC	Code_Room OLF
1	HAZARD	56 SF	STORAGE	1	0.5	200
2	SCBA	66 SF	STORAGE	1	0.5	200
3	STORAGE	106 SF	STORAGE	1	0.5	200
4	STORAGE / LAUNDRY	240 SF	STORAGE	1	1	200
5	STORAGE	189 SF	STORAGE	1	0.5	200
6	APPARATUS BAY 1	1720 SF	STORAGE	1	9	200
7	APPARATUS BAY 2	851 SF	STORAGE	1	4	200
8	BREAK	528 SF	STORAGE	1	3	200
9	COOLER	32 SF	STORAGE	1	0.5	200
10	STORAGE	39 SF	STORAGE	1	0.5	200
11	TOILET	40 SF		0	0	0
12	TOILET	37 SF		0	0	0
13	ENTRY / RECEPTION	166 SF	BUSINESS	1	1	150
14	CHIEF	111 SF	BUSINESS	1	1	150
15	OFFICE	61 SF	BUSINESS	1	1	150
16	KITCHEN	166 SF	BUSINESS	1	1	150
17	CONFERENCE ROOM	495 SF	BUSINESS	1	4	150
18	CLOSET	9 SF		0	0	0
19	MECH	13 SF		0	0	0
20	TOILET	45 SF		0	0	0
21	TOILET	45 SF		0	0	0
22	LIVING	594 SF	BUSINESS	1	3	150
23	CIRCULATION	384 SF	BUSINESS	1	3	150
24	LAUNDRY	42 SF		0	0	0
25	DORM 1	83 SF	RESIDENT DORMS	1	0.5	200
26	DORM 2	83 SF	RESIDENT DORMS	1	0.5	200
27	DORM 3	83 SF	RESIDENT DORMS	1	0.5	200
32	DORM 4	83 SF	RESIDENT DORMS	1	0.5	200
33	SHOWER	82 SF		0	0	0
34	TOILET	61 SF		0	0	0
35	CLOSET	39 SF		0	0	0
		6549 SF			36	



TRUE NORTH PLAN NORTH

1 CODE PLAN

1/8" = 1'-0"

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REGISTERED ARCHITECT 2840 JOSEPH A. SLACK COOS BAY, OREGON STATE OF OREGON

PROJECT NO.: **21.59**

NORTH BAY FIRE SEISMIC GRANT UPGRADE & ADDITION

NORTH BAY FIRE DISTRICT
67577 EAST BAY RD
NORTH BEND, OR 97459

CONSTRUCTION

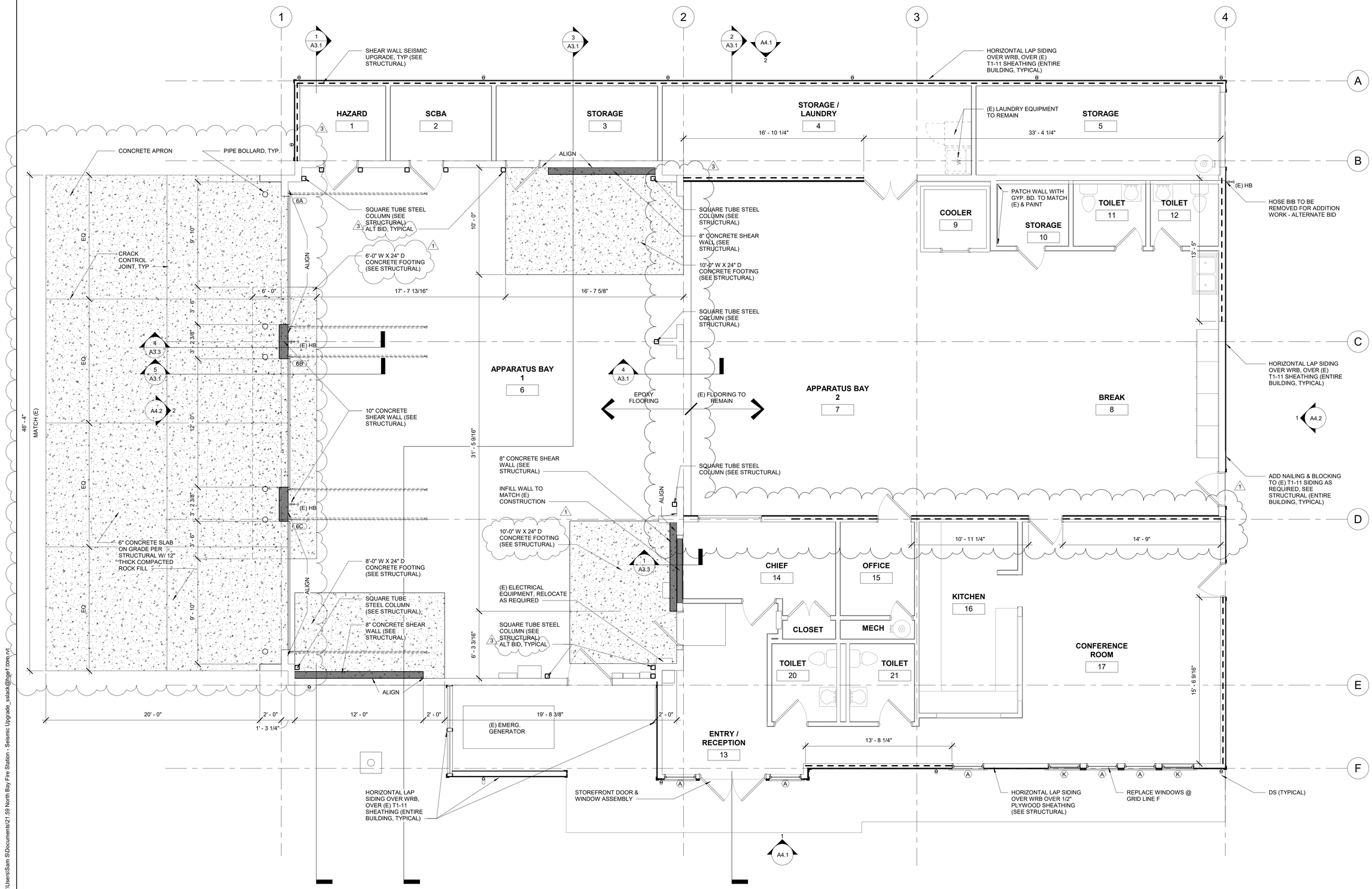
REVISIONS:

#	DATE	DESCRIPTION
3	02/21/24	ADD 3

DATE: JANUARY 2024

SHEET TITLE:
SITE PLAN & CODE INFORMATION - BASE BID

G0.1



TRUE NORTH PLAN NORTH

1 FLOOR PLAN - BASE BID

1/4" = 1'-0"

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NORTH BAY FIRE SEISMIC GRANT UPGRADE & ADDITION

PROJECT NO.: **21.59**

NORTH BAY FIRE DISTRICT
67577 EAST BAY RD
NORTH BEND, OR 97459

CONSTRUCTION

REVISIONS:

#	DATE	DESCRIPTION
1	02/12/24	ADD 1
3	02/21/24	ADD 3

DATE: JANUARY 2024

SHEET TITLE:
FIRST FLOOR PLAN - BASE BID

A2.1

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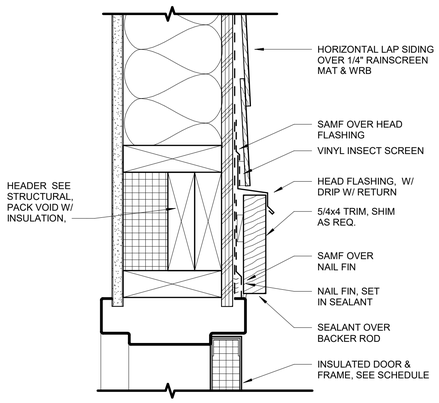
14 INT. WD DOOR HEAD/JAMB
3" = 1'-0"



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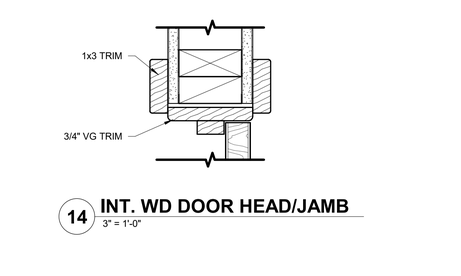
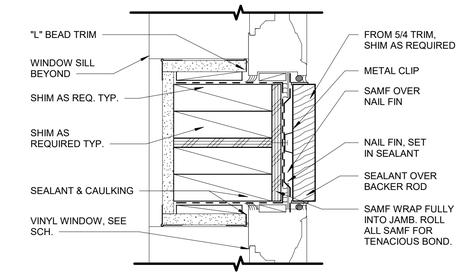


12 HM DOOR JAMB - ALTERNATE BID
3" = 1'-0"

11 HM DOOR THRESHOLD - ALTERNATE BID
3" = 1'-0"



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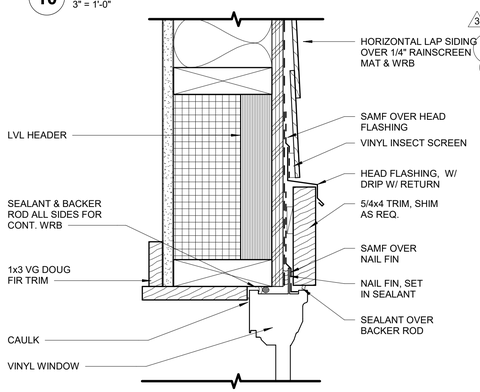

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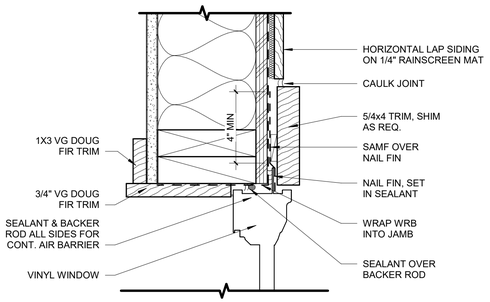
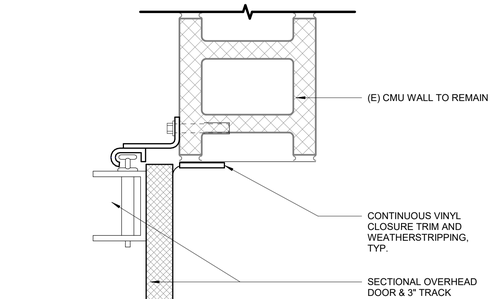
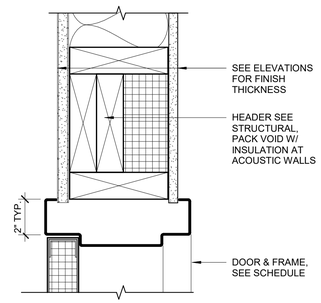


8 TYP. WINDOW JAMB
3" = 1'-0"

7 TYP. WINDOW SILL
3" = 1'-0"



15 OVERHEAD DOOR JAMB @ (E) CMU - BASE BID
3" = 1'-0"



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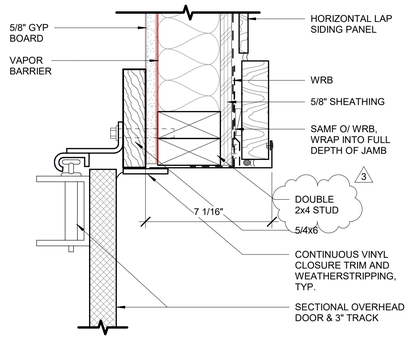
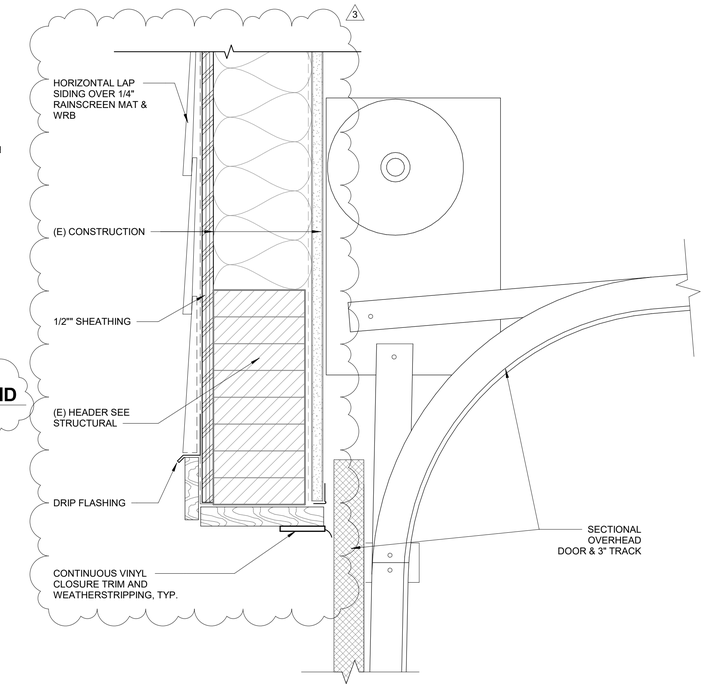


5 OVERHEAD DOOR JAMB @ SIDING
3" = 1'-0"



3 OVERHEAD DOOR HEAD
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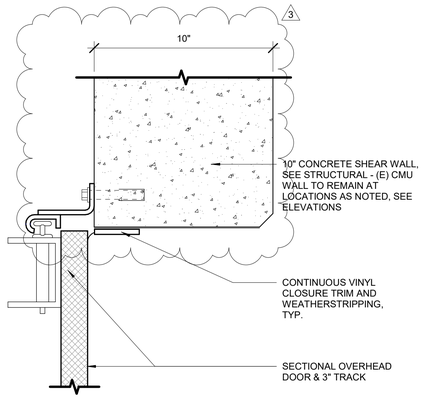
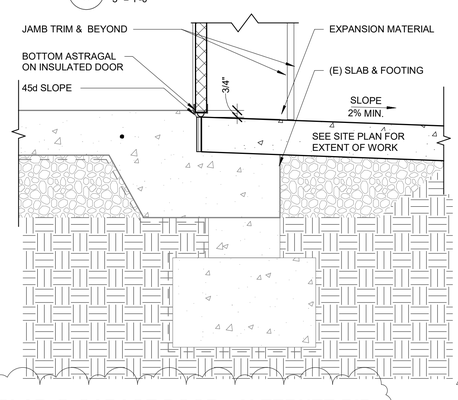
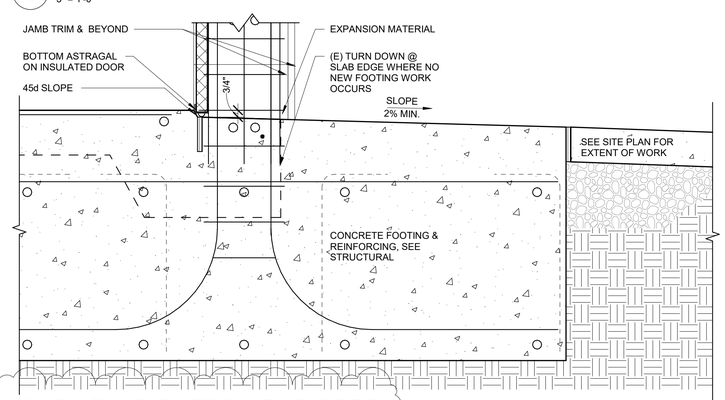


2 OVERHEAD DOOR JAMB @ CONCRETE - BASE BID
3" = 1'-0"



4 SLAB @ GARAGE DOOR - ALTERNTE BID
1 1/2" = 1'-0"



1 SLAB @ GARAGE DOOR - BASE BID
1 1/2" = 1'-0"

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REGISTERED ARCHITECT
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STATE OF OREGON

NORTH BAY FIRE SEISMIC GRANT UPGRADE & ADDITION

NORTH BAY FIRE DISTRICT
67577 EAST BAY RD
NORTH BEND, OR 97459

PROJECT NO.: **21.59**

CONSTRUCTION

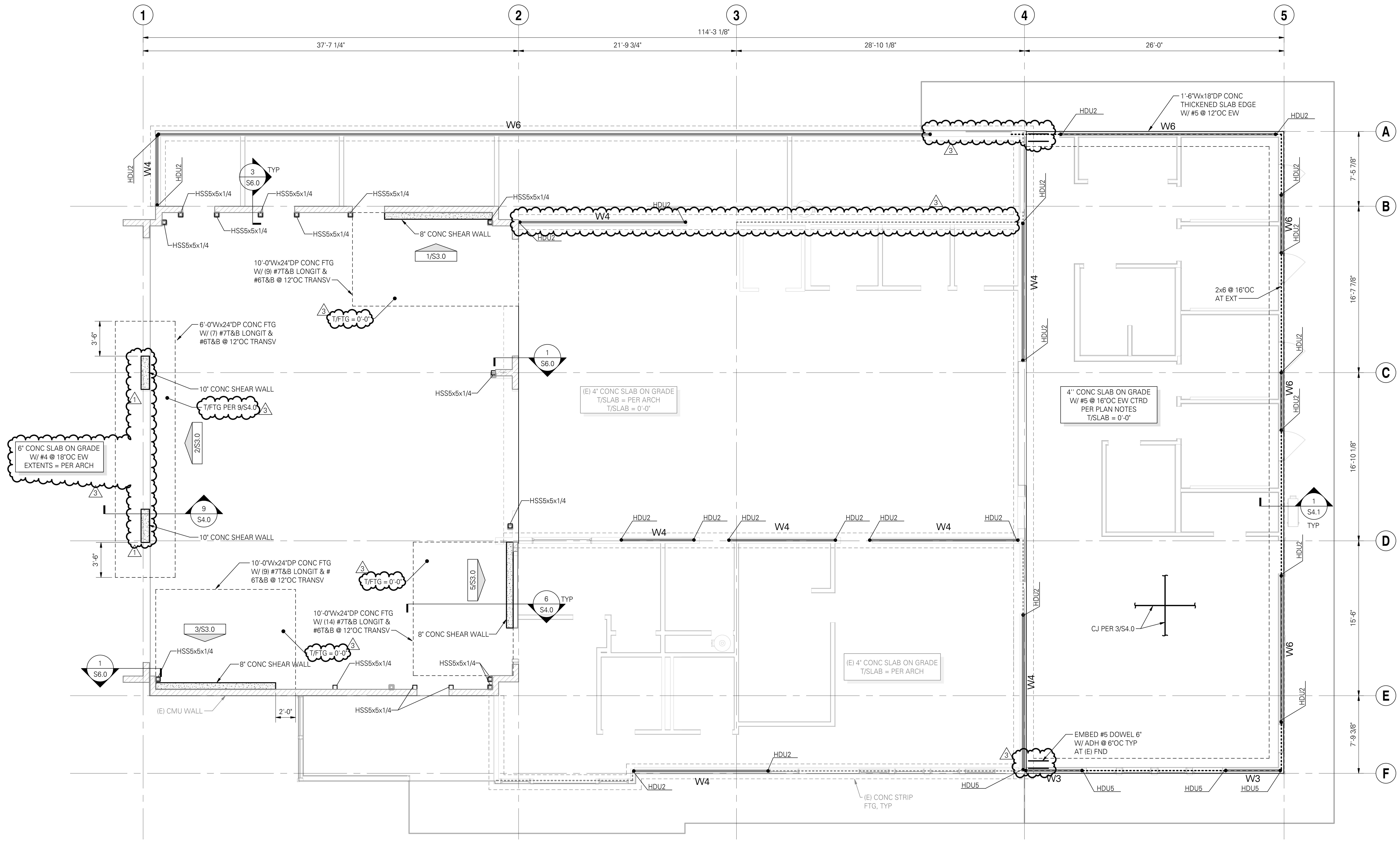
REVISIONS:

#	DATE	DESCRIPTION
3	02/21/24	ADD 3

DATE: JANUARY 2024

SHEET TITLE:
OPENINGS DETAILS

A5.3



FOUNDATION PLAN NOTES:

1. STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND PER S1.1 - S1.4.
2. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. ALL EXISTING DIMENSIONS SHALL BE FIELD VERIFIED.
3. CONTRACTOR SHALL LOCATE AND VERIFY THE FOLLOWING WITH OTHERS PRIOR TO POURING CONCRETE: ALL DOOR OPENINGS IN FOUNDATION WALLS; DRAINS AND SLOPES; BLOCKOUTS FOR PLUMBING, SPRINKLERS AND HVAC. ALL DUCTS, CHASES AND PIPES PER MECHANICAL, PLUMBING, ELECTRICAL AND SPRINKLER DRAWINGS. STAIR DETAILS AND GUARDRAILS PER ARCHITECTURAL DRAWINGS.
4. TOP OF SLAB (T/SLAB) ELEVATION ASSUMED 0'-0". FOR ACTUAL T/SLAB ELEVATION REFER TO CIVIL AND ARCHITECTURAL DRAWINGS. PROVIDE 6 MIL VAPOR BARRIER BELOW SLAB AT INTERIOR SPACES. PROVIDE FREE-DRAINING GRANULAR FILL PER GEOTECH REPORT.
5. ALL FOOTINGS AND SLABS TO BEAR ON COMPETENT NATIVE SOIL AND/OR STRUCTURAL FILL. SUBGRADE PREPARATION, STRUCTURAL FILL, DRAINAGE SYSTEM, AND OTHER REQUIREMENTS PER GEOTECH REPORT AS NOTED IN THE STRUCTURAL GENERAL NOTES.
6. CJ INDICATES CONTROL JOINT PER PLAN.
7. TYPICAL DETAILS PER:

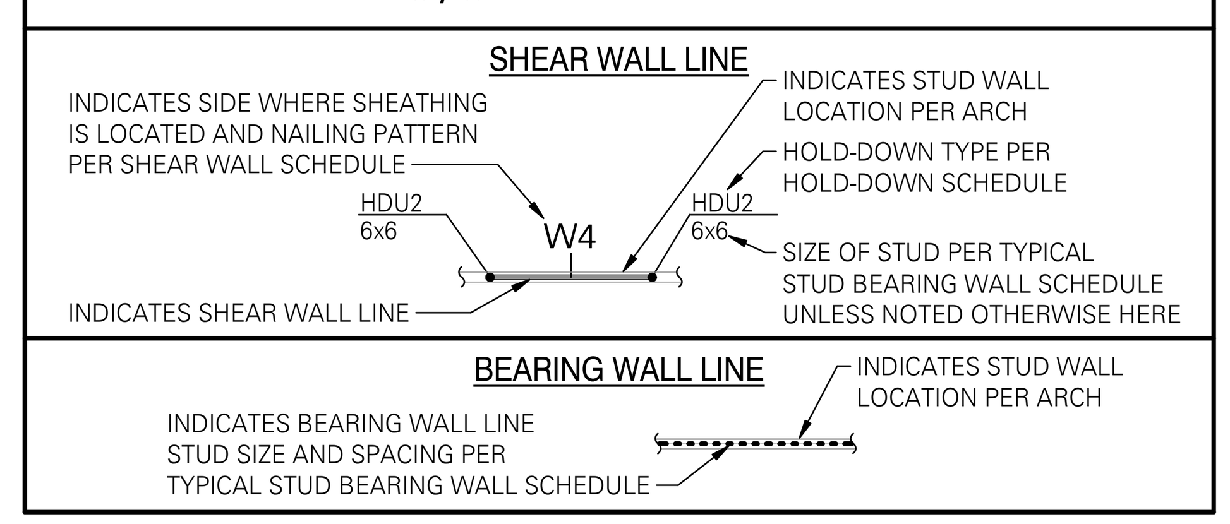
1/S4.0	STANDARD HOOKS AND BAR BENDS
2/S4.0	TYPICAL ANCHOR BOLT SCHEDULE
5/S4.0	TYPICAL CORNER REINFORCING AT CONCRETE FOOTINGS
8/S4.0	TYPICAL LAP SPLICE SCHEDULE
4/S4.1	TYPICAL PIPE EMBEDDED IN SLAB ON GRADE
5/S4.1	TYPICAL PIPE AND TRENCH LOCATIONSW AT CONCRETE STEM WALL
5/S5.0	TYPICAL CONCRETE WALL OPENING REINFORCEMENT
S5.0	CONCRETE SHEAR WALL DETAILS
S6.0	STEEL DETAILS

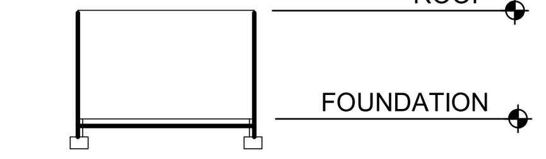
STUD AND SHEAR WALL PLAN NOTES:

1. STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND PER S1.1 - S1.4.
2. LUMBER GRADE PER STRUCTURAL GENERAL NOTES.
3. ALL INTERIOR NON-BEARING, NON-STRUCTURAL WALL STUD REQUIREMENTS PER STRUCTURAL GENERAL NOTES.
4. HEADERS SHOWN ON FRAMING PLAN SHALL BE SUPPORTED BY (1) TRIMMER AND (1) KING STUD MINIMUM, UNO. WHERE MORE THAN (1) TRIMMER IS REQUIRED, THE NUMBER OF TRIMMER STUDS SHALL BE NOTED THUS: ■-(2). TRIMMERS TO BE CONTINUOUS TO THE FOUNDATION. BLOCK SOLID AT FLOOR FRAMING.
5. BEAMS SHOWN ON FRAMING PLAN SHALL BE SUPPORTED BY (2) BUNDLED STUDS MINIMUM, UNO. WHERE MORE THAN (2) BUNDLED STUDS ARE REQUIRED, THE NUMBER OF BUNDLED STUDS SHALL BE NOTED THUS: ■-(3). BUNDLED STUDS TO BE CONTINUOUS TO THE FOUNDATION. BLOCK SOLID AT FLOOR FRAMING.
6. SHEAR WALL AND NAILING REQUIREMENTS PER SHEAR WALL SCHEDULE 11/S7.1. IT IS PERMISSIBLE TO INSTALL SHEATHING OVER THE TOP OF EXISTING PLYWOOD SIDING.
7. ALL EXTERIOR WALLS REQUIRING WOOD SHEATHING PER THE ARCHITECT SHALL BE SHEAR WALL TYPE W6 UNO.
8. HD / (2) 2x INDICATES HOLD-DOWN TYPE PER HOLD-DOWN SCHEDULE 1/S7.2.
9. TYPICAL HOLD-DOWN ELEVATION PER 3/S7.1.
10. ANCHOR BOLTS TO BE 5/8" DIA x 7" MINIMUM EMBEDMENT PER 6/S7.0. PROVIDE HOT-DIPPED GALVANIZED ANCHOR BOLTS AT PRESSURE-TREATED SILL PLATES.
11. TYPICAL DETAILS PER:

1/S7.0	TYPICAL STUD WALL OPENING (HEADER) DETAIL
2/S7.0	TYPICAL TOP PLATE SPLICE DETAIL
3/S7.0	TYPICAL BUNDLED STUDS NAILING
6/S7.0	TYPICAL SILL PLATE ANCHORAGE TO CONCRETE
9/S7.0	NON-STRUCTURAL PARTITION WALL CONNECTION [I-JOIST]
11/S7.0	TYPICAL HOLES AND NOTCHES IN WOOD STUDS
1/S7.1	TYPICAL FLOOR AND ROOF SHEATHING ATTACHMENT
2/S7.1	TYPICAL SHEAR WALL ELEVATION
9/S7.1	INTERSECTING SHEAR WALLS
11/S7.1	SHEAR WALL SCHEDULE
1/S7.2	HOLD-DOWN/STRAP SCHEDULE - DOUG-FIR STUDS

BEARING/SHEAR WALL LINE KEY





NOTE:
DARKENED LINES DESIGNATE AREA OF WORK.

FOUNDATION AND FIRST FLOOR STUD & SHEAR WALL PLAN

SCALE: 3/16" = 1'-0"

N

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921 SW Washington Street, Suite 560
Portland, Oregon 97205
P: (503) 242-2448
www.dci-engineers.com

FOR PERMIT
The Contractor shall not use these drawings for construction until Contractor receives written approval for use in construction by the authority having jurisdiction and DCI Engineers.

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER 74858PE OREGON MARCH 23, 2011 SHIRLEY CHALUPA
EXPIRES: 12-31-25

PROJECT NO.: 21031-0263

NORTH BAY FIRE SEISMIC GRANT

NORTH BAY FIRE DISTRICT
67577 EAST BAY RD
NORTH BEND, OR 97220

EXISTING

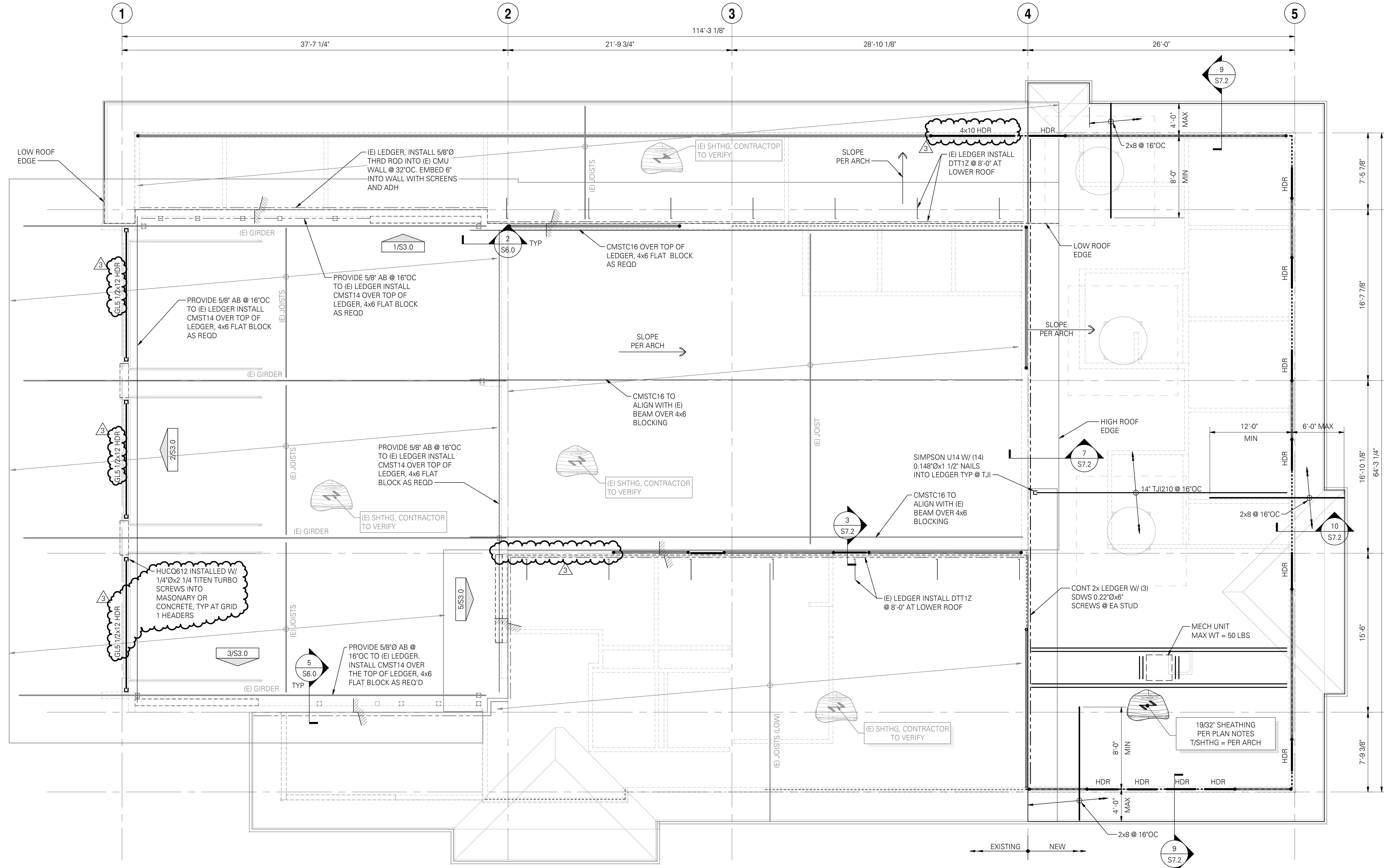
REVISIONS:

#	DATE	DESCRIPTION
1	2/9/2024	ADDENDUM #1
3	2/21/2024	ADDENDUM #3

DATE: APRIL-11

SHEET TITLE:
STRUCTURAL - FOUNDATION AND FIRST FLOOR STUD & SHEAR WALL PLAN

S2.1



ROOF FRAMING PLAN NOTES:

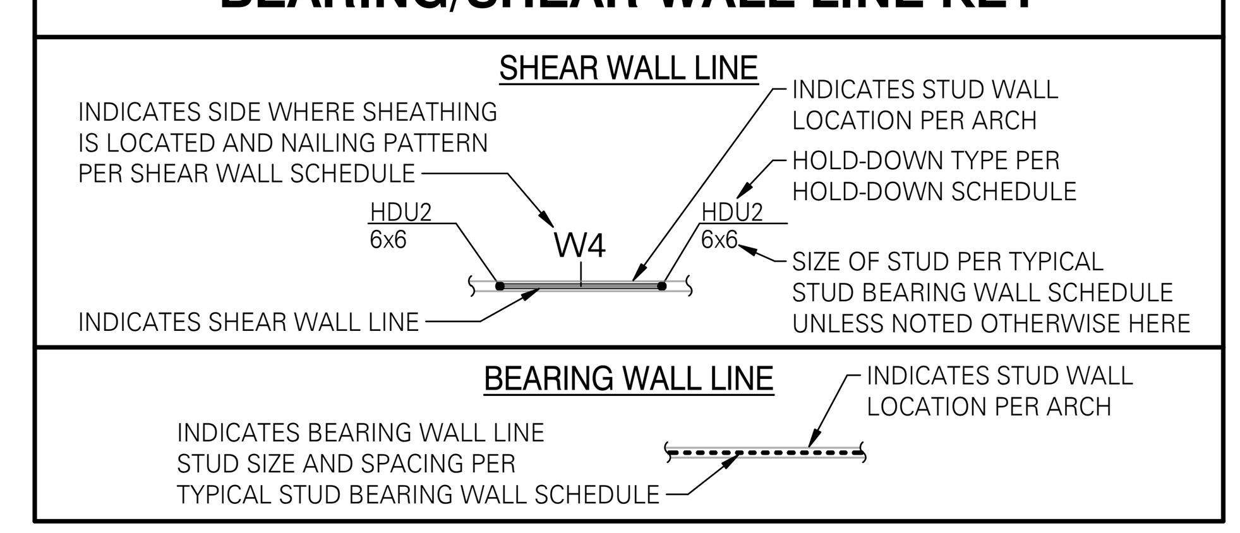
1. STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND PER S1.1 - S1.4.
2. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. ALL EXISTING DIMENSIONS SHALL BE FIELD VERIFIED.
3. ALL DUCTS, CHASES AND PIPES SHALL BE PER MECHANICAL, PLUMBING, ELECTRICAL AND SPRINKLER DRAWINGS. STAIR DETAILS AND GUARDRAILS PER ARCHITECTURAL DRAWINGS.
4. ROOF SHEATHING PER PLAN AND STRUCTURAL GENERAL NOTES. SHEATHING TO BE NAILED TO ROOF FRAMING WITH 0.131"DIAx2 1/2" NAILS @ 6"OC AT SUPPORTED PANEL EDGES AND @ 12"OC FIELD, UNO. LAY SHEATHING WITH FACE GRAIN (LONG DIRECTION) PERPENDICULAR TO SUPPORTS AND STAGGER PANEL END JOINTS. ALLOW 1/8" SPACE BETWEEN PANEL ENDS AND EDGES.
5. ALL 2x HANGERS TO BE FACE MOUNT TYPE LUS, UNO. GLULAM, PARALLAM AND MICROLLAM HANGERS ARE AS SPECIFIED ON PLAN. "I" JOIST HANGERS TO BE TOP FLANGE BEARING SIMPSON MIT OR ITS TYPE, UNO.
6. HEADERS SHOWN BUT NOT SPECIFIED ARE TO BE (2) 2x8 MINIMUM. HEADER SUPPORTS PER STUD AND SHEAR WALL PLAN ON FLOOR BELOW.
7. BEAMS ARE FLUSH FRAMED WITH JOISTS UNLESS NOTED OTHERWISE ON DETAILS, OR ON PLANS AS "DB" INDICATING THAT DROPPED BEAM FRAMING IS REQUIRED. BEAM SUPPORTS PER STUD AND SHEAR WALL PLAN ON LEVEL BELOW. PROVIDE A35 CLIP EACH SIDE OF FLUSH BEAMS THAT BEAR ON DOUBLE TOP PLATES.
8. PROVIDE SIMPSON H2.5A TIES AT ALL ROOF JOISTS, TYPICAL.
9. PROVIDE SOLID BLOCKING OVER ALL SHEAR WALLS AND BEARING WALLS. AT SHEAR WALLS PARALLEL TO FRAMING, ALIGN JOIST OR TRUSS OVER SHEAR WALL (ADDITIONAL JOISTS OR TRUSSES MAY BE REQUIRED).
10. ALL ROOF I-JOISTS TO BE TAPERED PER ARCHITECTURAL DRAWING.
11. ALL RIM JOISTS AND BLOCKING TO BE 1 1/2" LSL MINIMUM UNO.
12. BEARING STUD, SHEAR WALL, HOLD-DOWN, POST SIZE, AND POST CAP AND BASE REQUIREMENTS BELOW PER STUD AND SHEAR WALL PLAN.

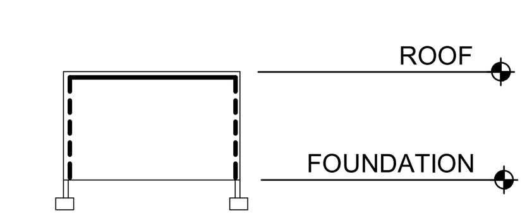
STUD AND SHEAR WALL PLAN NOTES:

1. STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND PER S1.1 - S1.4.
2. LUMBER GRADE PER STRUCTURAL GENERAL NOTES.
3. ALL INTERIOR NON-BEARING, NON-STRUCTURAL WALL STUD REQUIREMENTS PER STRUCTURAL GENERAL NOTES.
4. HEADERS SHOWN ON FRAMING PLAN SHALL BE SUPPORTED BY (1) TRIMMER AND (1) KING STUD MINIMUM, UNO. WHERE MORE THAN (1) TRIMMER IS REQUIRED, THE NUMBER OF TRIMMER STUDS SHALL BE NOTED THUS: ■ ②. TRIMMERS TO BE CONTINUOUS TO THE FOUNDATION. BLOCK SOLID AT FLOOR FRAMING.
5. BEAMS SHOWN ON FRAMING PLAN SHALL BE SUPPORTED BY (2) BUNDLED STUDS MINIMUM, UNO. WHERE MORE THAN (2) BUNDLED STUDS ARE REQUIRED, THE NUMBER OF BUNDLED STUDS SHALL BE NOTED THUS: ■ ③. BUNDLED STUDS TO BE CONTINUOUS TO THE FOUNDATION. BLOCK SOLID AT FLOOR FRAMING.
6. SHEAR WALL AND NAILING REQUIREMENTS PER SHEAR WALL SCHEDULE 11/S7.1. IT IS PERMISSIBLE TO INSTALL SHEATHING OVER THE TOP OF EXISTING PLYWOOD SIDING.
7. ALL EXTERIOR WALLS REQUIRING WOOD SHEATHING PER THE ARCHITECT SHALL BE SHEAR WALL TYPE W6 UNO.
8. HD (2) 2x INDICATES HOLD-DOWN TYPE PER HOLD-DOWN SCHEDULE 1/S7.2.
9. TYPICAL HOLD-DOWN ELEVATION PER 3/S7.1.
10. ANCHOR BOLTS TO BE 5/8" DIA x 7" MINIMUM EMBEDMENT PER 6/S7.0. PROVIDE HOT-DIPPED GALVANIZED ANCHOR BOLTS AT PRESSURE-TREATED SILL PLATES.
11. TYPICAL DETAILS PER:

1/S7.0	TYPICAL STUD WALL OPENING (HEADER) DETAIL
2/S7.0	TYPICAL TOP PLATE SPLICE DETAIL
3/S7.0	TYPICAL BUNDLED STUDS NAILING
6/S7.0	TYPICAL SILL PLATE ANCHORAGE TO CONCRETE
9/S7.0	NON-STRUCTURAL PARTITION WALL CONNECTION [I-JOIST]
11/S7.0	TYPICAL HOLES AND NOTCHES IN WOOD STUDS
1/S7.1	TYPICAL FLOOR AND ROOF SHEATHING ATTACHMENT
2/S7.1	TYPICAL SHEAR WALL ELEVATION
9/S7.1	INTERSECTING SHEAR WALLS
11/S7.1	SHEAR WALL SCHEDULE
1/S7.2	HOLD-DOWN/STRAP SCHEDULE - DOUG-FIR STUDS

BEARING/SHEAR WALL LINE KEY





NOTE:
DARKENED LINES DESIGNATE AREA OF WORK.

ROOF FRAMING PLAN

SCALE: 3/16" = 1'-0"

N

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STRUCTURAL REGISTERED PROFESSIONAL ENGINEER 74858PE
OREGON
MARCH 23, 2011
SHIRLEY CHALUPA
EXPIRES: 12-31-25

PROJECT NO.: 21031-0263
NORTH BAY FIRE SEISMIC GRANT
NORTH BAY FIRE DISTRICT
67577 EAST BAY RD
NORTH BEND, OR 97220

EXISTING

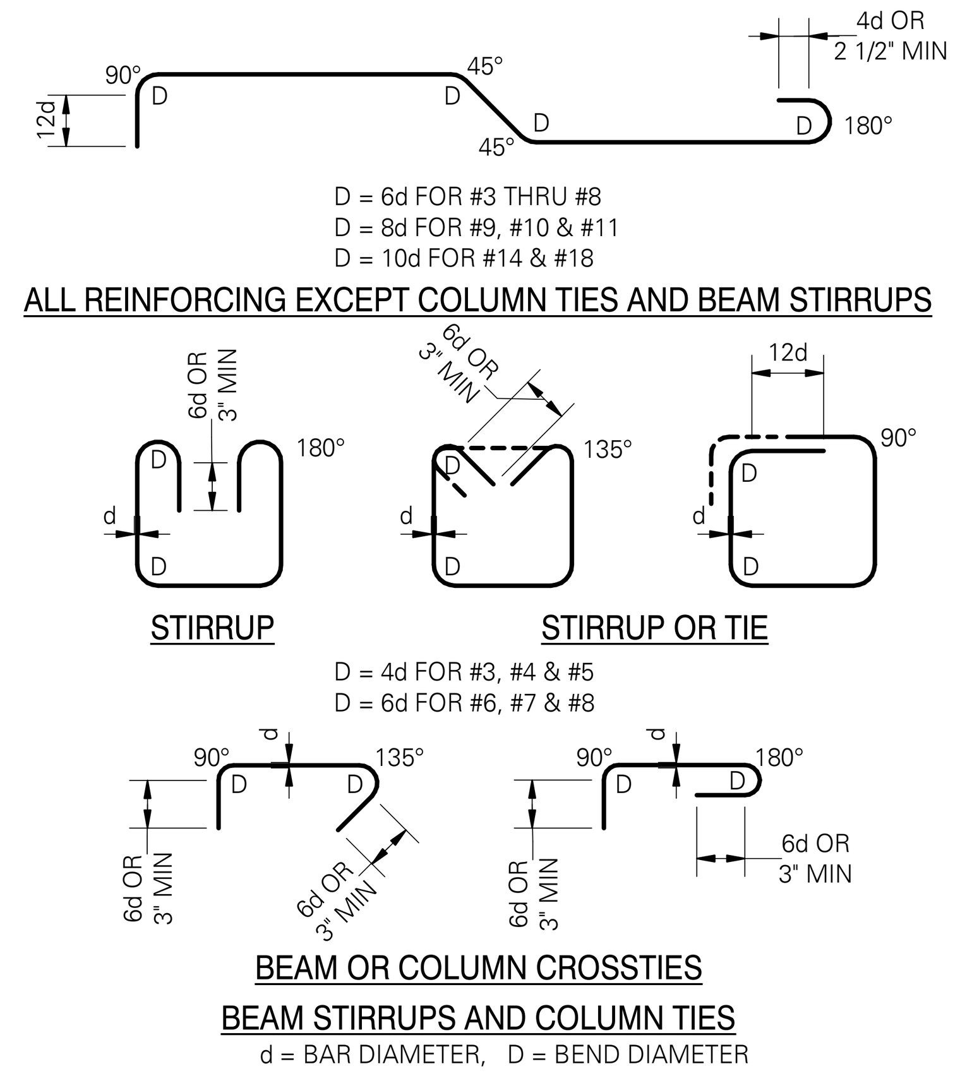
REVISIONS:

#	DATE	DESCRIPTION
3	2/21/2024	ADDENDUM #3

DATE: APRIL-11

SHEET TITLE:
STRUCTURAL - ROOF FRAMING PLAN

S2.2



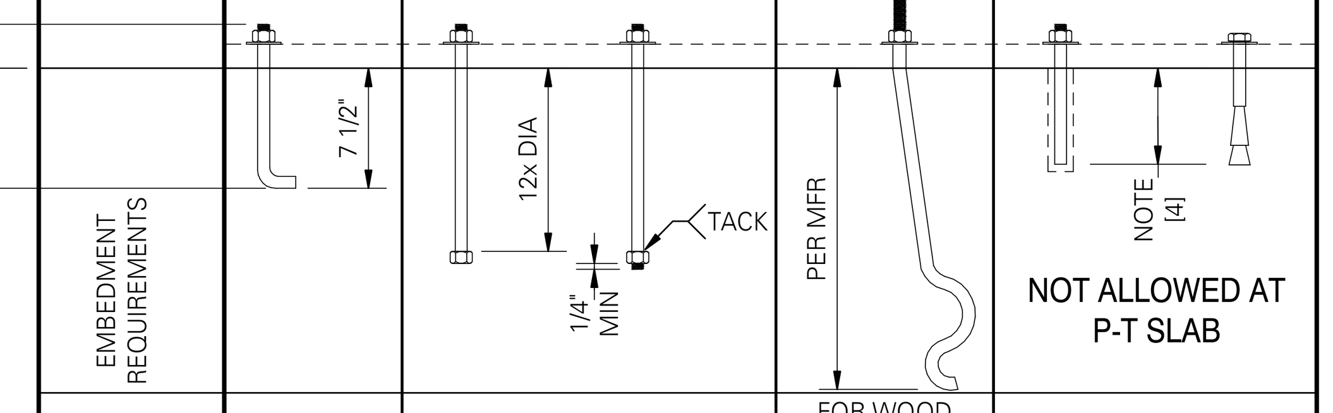
NOTE:

TIES AND CROSSTIES FOR SHEAR WALL BOUNDARY ELEMENTS SHALL BE DETAILED AS COLUMN TIES/CROSSTIES.

1 **STANDARD HOOKS AND BENDS**

SCALE: 3/4" = 1'-0" (03400)

01901	TYPICAL ANCHOR BOLT SCHEDULE					
INSTALLATION TYPE	CAST-IN-PLACE (PRE-AUTHORIZED) [2]				DRILL-IN OPTIONS (SUBMITTAL REQUIRED) [3]	
BOLT TYPE	STANDARD J-BOLT	HEADED ANCHOR	THREADED ROD ANCHOR	SIMPSON "SSTB" ANCHOR BOLT	ADHESIVE ANCHOR	EXPANSION ANCHOR
EMBEDMENT REQUIREMENTS	7 1/2"	12x DIA; 1/4" MIN; TACK		PER MFR	NOTE [4]; NOT ALLOWED AT P-T SLAB	
LIMITS	5/8"Ø MAX	5/8"Ø THRU 2 1/2"Ø		FOR WOOD FRAME ONLY	5/8"Ø THRU 1"Ø	
DIA = ANCHOR BOLT DIAMETER (NOMINAL)						



NOTES:

[1] CONTRACTOR SHALL DETERMINE THE REQUIRED THREAD PROJECTION SUITABLE FOR THE THICKNESS OF MATERIAL BEING FASTENED PLUS GROUT ALLOWANCE, IF ANY, AND CONSTRUCTION TOLERANCES, UNO.

[2] CONTRACTOR MAY SELECT APPROPRIATE CAST-IN-PLACE ANCHOR BOLT OPTION WITHOUT SUBMITTAL.

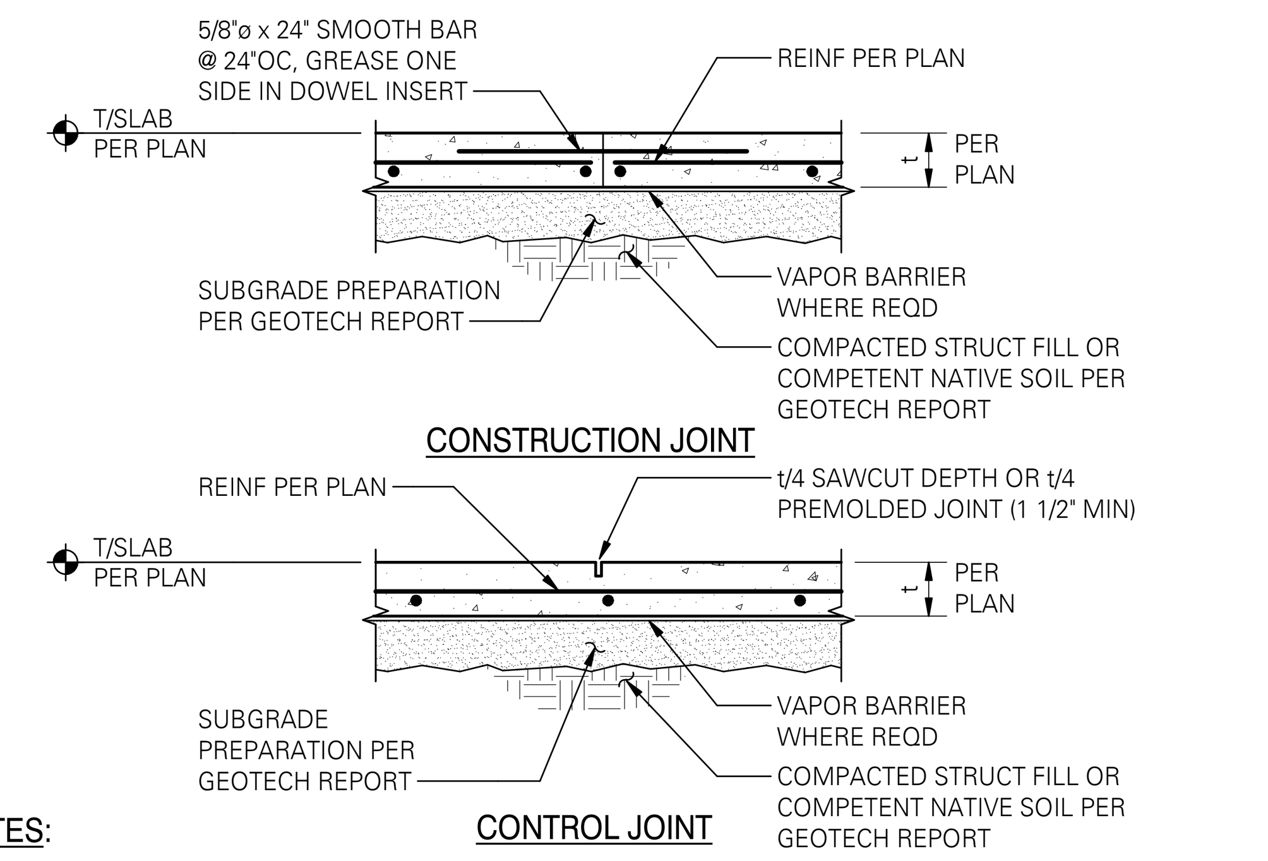
[3] DRILL-IN OPTIONS ARE NOT APPROPRIATE AT ALL CONDITIONS. IF DRILL-IN METHOD IS PREFERRED, SUBMIT MANUFACTURER'S INFORMATION, ALLOWABLE LOAD VS EMBEDMENT DATA AND LOCATIONS OF WHERE SUBSTITUTIONS ARE REQUESTED. ENGINEER WILL DETERMINE IF SUBSTITUTION IS APPROPRIATE FOR LOCATION AND LOADING.

[4] EMBEDMENT OF DRILL-IN ANCHORS SHALL BE PER ENGINEERS'S SUBMITTAL REVIEW COMMENTS. EMBEDMENT SHALL BE (9) NINE TIMES THE NOMINAL ANCHOR DIAMETER, UNO.

[5] AT PRESSURE TREATED SILLS, PROVIDE HOT-DIPPED GALVANIZED OR STAINLESS STEEL ANCHORS.

2 **TYPICAL ANCHOR BOLT SCHEDULE**

SCALE: 1" = 1'-0" (01901)



NOTES:

1. CONSTRUCTION JOINT IS A JOINT BETWEEN DIFFERENT POURS. CONTROL JOINT IS A CRACK CONTROL JOINT WITHIN THE SAME POUR.

2. USE "EARLY ENTRY DRY-CUT SAW" AS SOON AS POSSIBLE WITHOUT CAUSING RAVELING OF CONCRETE EDGES. SAWCUT ALONG SHORT DIRECTION OF POUR FIRST.

3. ALIGN A CONSTRUCTION OR CONTROL JOINT WITH RE-ENTRANT SLAB CORNERS, EACH WAY, TYPICAL.

4. CONSTRUCTION/CONTROL JOINT TO ENCLOSE APPROXIMATE SQUARE AREAS 225 SQUARE FEET MAXIMUM, WITH MAXIMUM PANEL ASPECT RATIO OF 1.3 TO 1.0.

5. CONTRACTOR TO SUBMIT CONSTRUCTION/CONTROL JOINT PLAN TO STRUCTURAL ENGINEER OF RECORD FOR REVIEW/APPROVAL.

3 **TYPICAL SLAB ON GRADE JOINT DETAILS WITH REINFORCING**

SCALE: 3/4" = 1'-0" (03201)

01400	GRADE 60 REINFORCING				
BAR SIZE	MISCELLANEOUS BARS		TOP BARS (see note #5)		HOOKED BARS
	Ld	Splice	Ld	Splice	Ldh
f'c = 3000psi					
#3	17	22	22	28	9
#4	22	29	29	38	11
#5	28	36	36	47	14
#6	33	43	43	56	17
#7	48	63	63	81	20
#8	55	72	72	93	22
#9	62	81	81	105	25
#10	70	91	91	118	28
#11	78	101	101	131	31
#14	93	N/A	121	N/A	38
#18	124	N/A	161	N/A	50
f'c = 4000psi					
#3	15	19	19	25	8
#4	19	25	25	33	10
#5	24	31	31	41	12
#6	29	37	37	49	15
#7	42	54	54	71	17
#8	48	62	62	81	19
#9	54	70	70	91	22
#10	61	79	79	102	25
#11	67	87	87	114	27
#14	81	N/A	105	N/A	33
#18	108	N/A	140	N/A	43
f'c = 5000psi					
#3	13	17	17	22	7
#4	17	23	23	29	9
#5	22	28	28	36	11
#6	26	34	34	44	13
#7	38	49	49	63	15
#8	43	56	56	72	17
#9	48	63	63	81	20
#10	54	71	71	92	22
#11	60	78	78	102	24
#14	72	N/A	94	N/A	29
#18	96	N/A	125	N/A	39

NOTES:

1. ALL TABULATED VALUES ARE IN INCHES.

2. VALUES FOR UNCOATED REINFORCING AND NORMAL WEIGHT CONCRETE WITH CLEAR SPACING > db, CLEAR COVER > db AND MINIMUM STIRRUPS OR TIES THROUGHOUT Ld OR CLEAR SPACING > 2db AND CLEAR COVER > db.

3. DEVELOP ALL REINFORCING IN STRUCTURAL SLABS WITH MINIMUM DEVELOPMENT LENGTH Ld.

4. Ldh = DEVELOPMENT LENGTH OF BAR WITH STANDARD HOOK.

5. TOP BAR = HORIZONTAL BAR WITH MORE THAN 12" OF FRESH CONCRETE BELOW OR AS NOTED ON DOCUMENTS AS "TOP BAR".

6. LAP SPLICE OF DIFFERENT SIZED BARS TO BE THE LARGER OF Ld OF THE LARGER BAR OR SPLICE LENGTH OF THE SMALLER BAR.

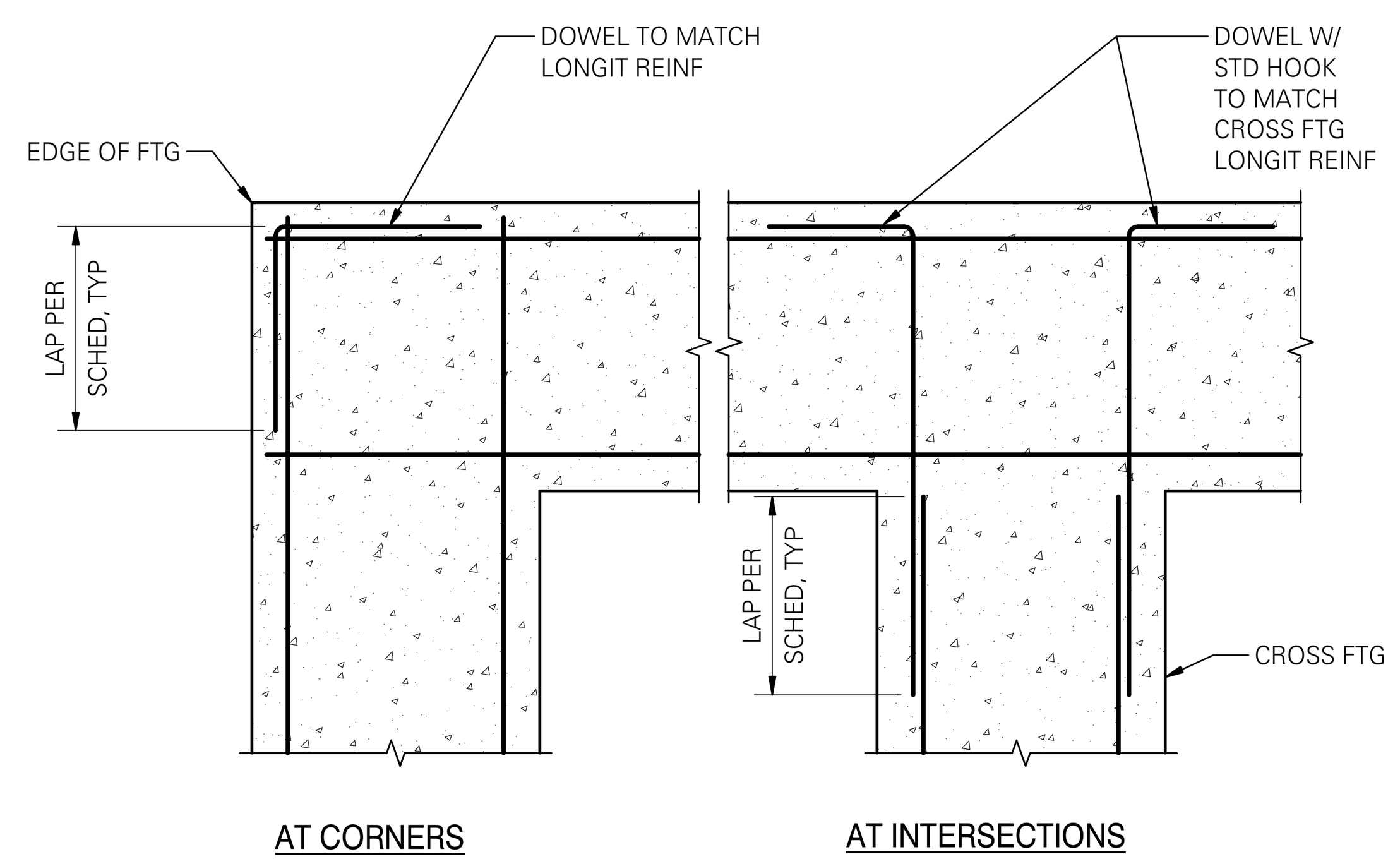
7. LAP SPLICE OF #14 AND #18 BARS IS NOT PERMITTED. LAP SPLICE OF SMALLER TO #14 AND #18 BARS IS NOT PERMITTED.

8. LAP SPLICE OF DIFFERENT GRADES OF REINFORCING TO BE THE LARGER OF Ld OF THE HIGHER GRADE BAR OR SPLICE LENGTH OF THE LOWER GRADE BAR.

9. SHEAR WALL REINFORCING LAP SPLICE SCHEDULE PER 8/S5.0.

8 **TYPICAL LAP SPLICE AND DEVELOPMENT LENGTH SCHEDULE**

SCALE: 3/4" = 1'-0" (01400M)



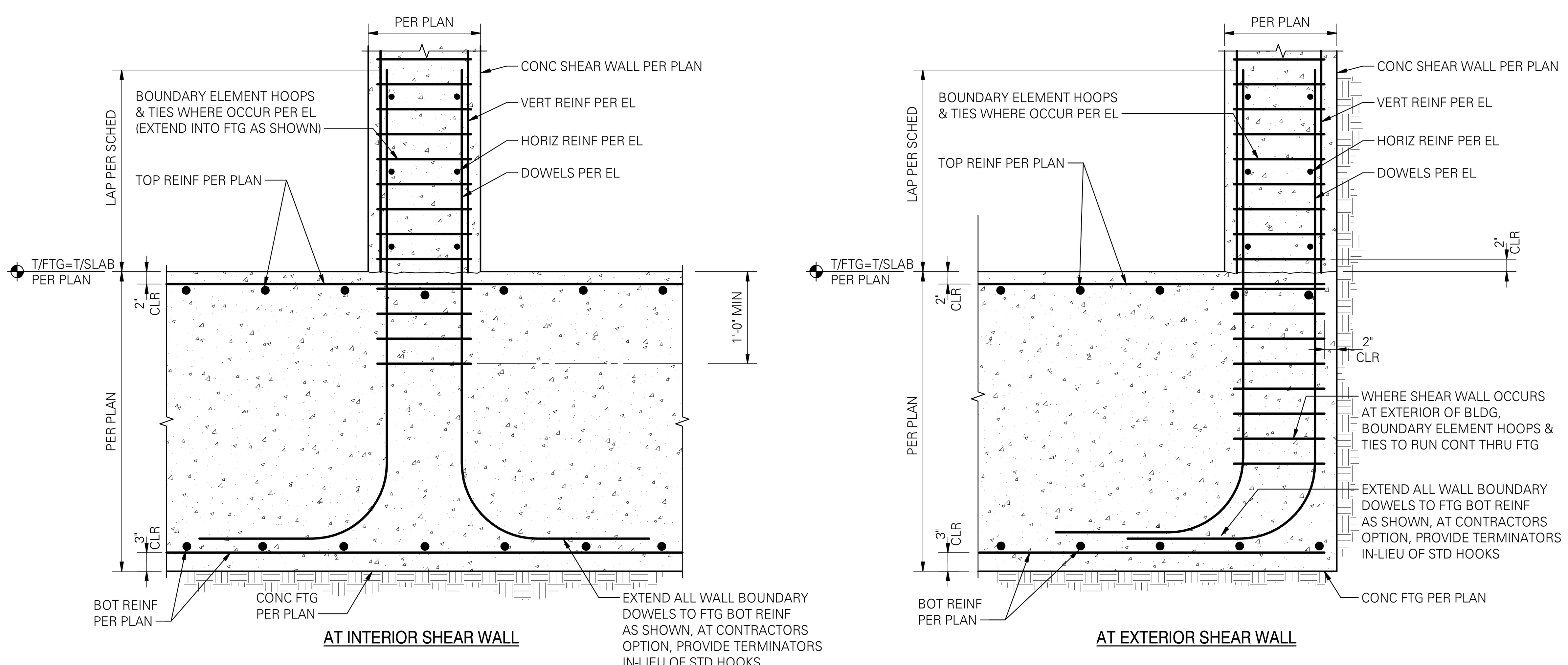
NOTE:

1. SPLICE LENGTHS PER LAP SPLICE AND DEVELOPMENT LENGTH SCHEDULE.

2. FOOTING REINFORCING PER PLAN OR ELEVATIONS, SECTIONS AND DETAILS.

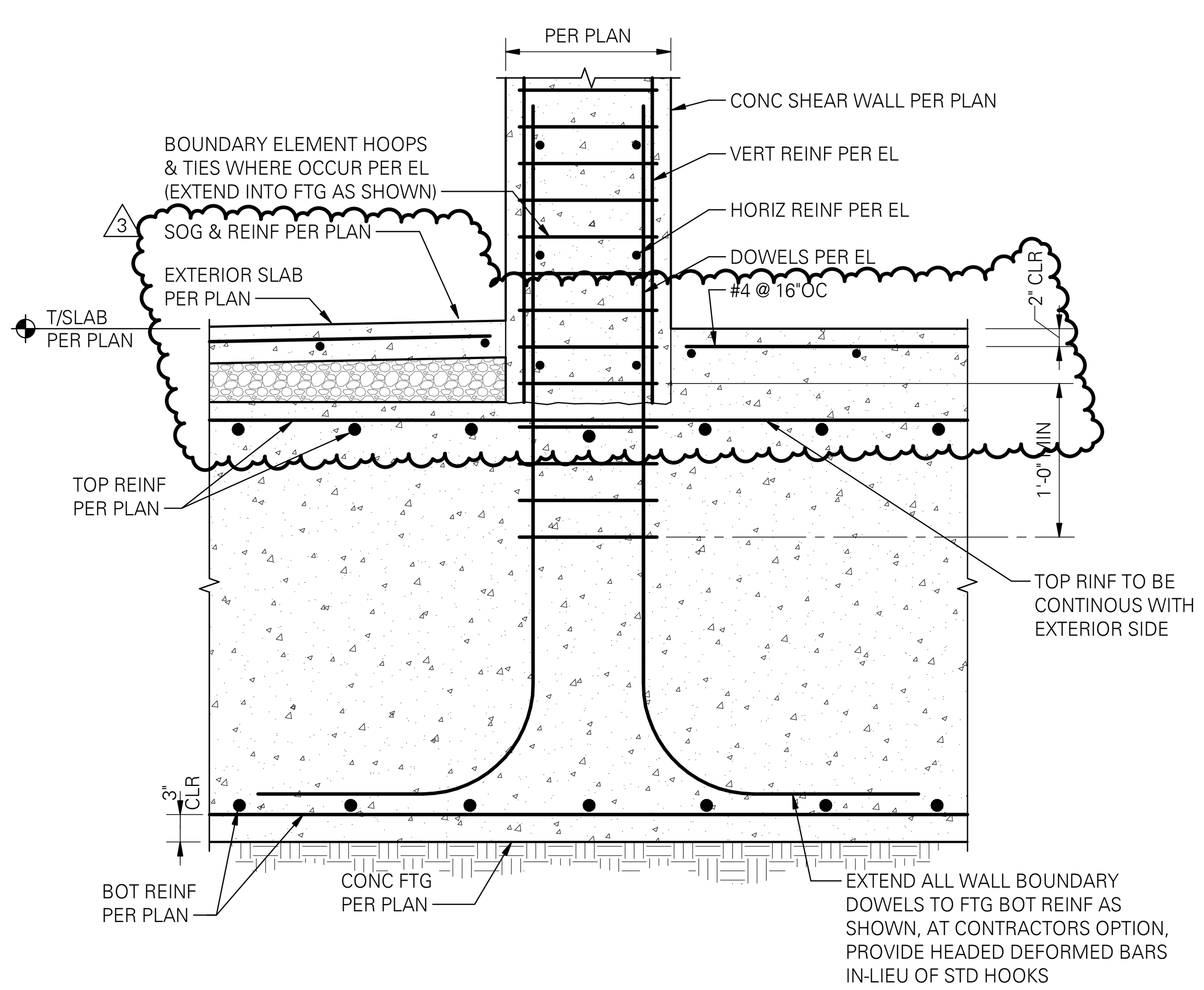
5 **PLAN - TYPICAL CORNER REINFORCING AT CONCRETE FOOTINGS**

SCALE: 3/4" = 1'-0" (03132)



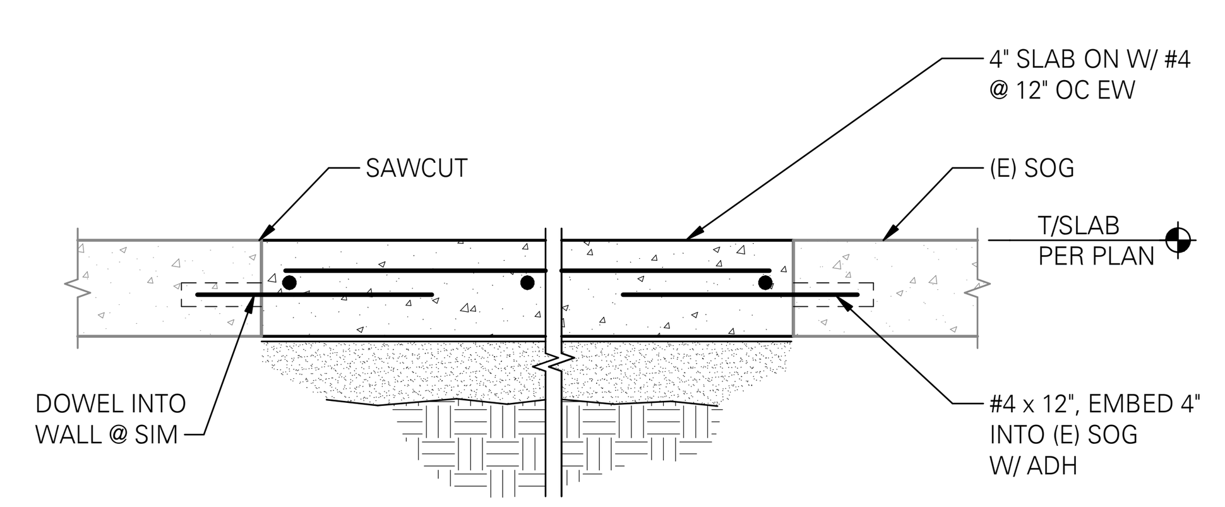
6 **FOOTING AT CONCRETE SHEAR WALL**

SCALE: 3/4" = 1'-0" (03136)



9 **FOOTING AT CONCRETE SHEAR WALL**

SCALE: 3/4" = 1'-0" (03136)



10 **SLAB ON GRADE INFILL**

SCALE: 1" = 1'-0"

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STRUCTURAL REGISTERED PROFESSIONAL ENGINEER 74858PE OREGON MARCH 23, 2011 SHIRLEY CHALUPA

EXPIRES: 12-31-25

NORTH BAY FIRE SEISMIC GRANT

NORTH BAY FIRE DISTRICT
67577 EAST BAY RD
NORTH BEND, OR 97220

PROJECT NO.: 21031-0263

EXISTING

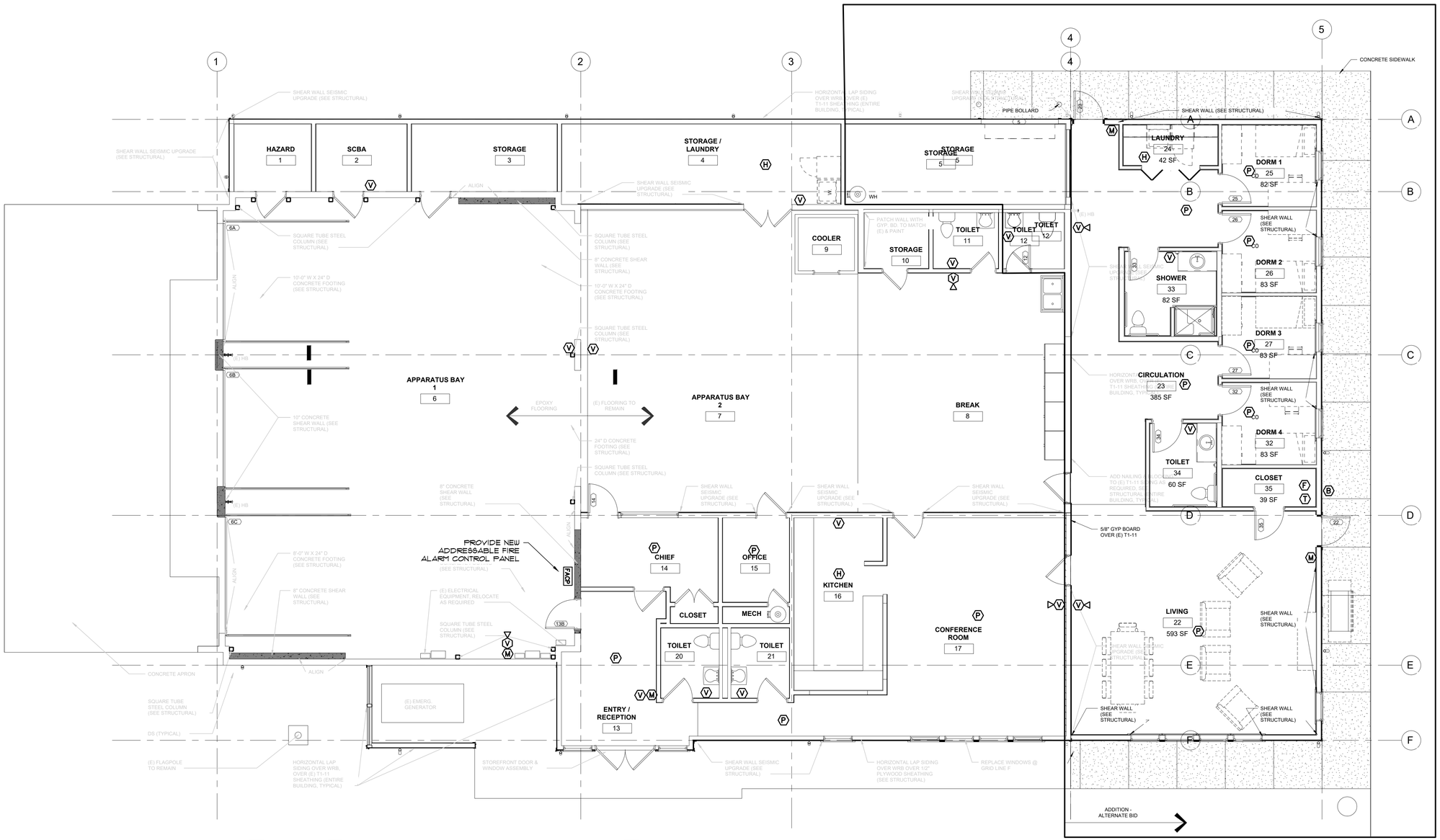
REVISIONS:

#	DATE	DESCRIPTION
3	2/21/2024	ADDENDUM #3

DATE: APRIL-11

SHEET TITLE:
STRUCTURAL - FOUNDATION DETAILS

S4.0



1 ALTERNATE BID - FIRE DETECTION & ALARM PLAN
E3.0 SCALE: 3/16" = 1'-0"

SHEET NOTES

1. AS A PART OF THE ALTERNATE ADDITION, PROVIDE A COMPLETE DESIGN-BUILD, CODE COMPLIANT, ADDRESSABLE FIRE ALARM SYSTEM FOR THE ENTIRE FIRE STATION. REPLACE EXISTING DEVICES AND CABLING.
2. DEVICES SHOWN SHOWN ON THE PLANS ARE IN ADDITION TO THE MINIMUM CODE COMPLIANT SYSTEM. CONTRACTOR MAY MODIFY FINAL LOCATIONS SO LONG AS THE INTENT IS MAINTAINED.
3. SLEEPING AREAS DETECTION AND NOTIFICATION SHALL BE PROVIDED WITH CARBON MONOXIDE DETECTION AS PROPANE MAY BE USED IN THE FACILITY FROM TIME TO TIME.
4. VERIFY EXTENT OF FIRE SPRINKLER COVERAGE WITH FIRE SPRINKLER CONTRACTOR. CURRENT PLANS INDICATE THAT THE SPRINKLER SYSTEM IS LIMITED TO THE SLEEPING AREAS.

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REGISTERED PROFESSIONAL ENGINEER 65580 OREGON JULY 13, 2004 GREGORY L. PRIDE EXPIRES: 12-31-24

PROJECT NO.: 21.59

NORTH BAY FIRE SEISMIC GRANT UPGRADE & ADDITION

NORTH BAY FIRE DISTRICT
67577 EAST BAY RD
NORTH BEND, OR 97459

CONSTRUCTION

REVISIONS:

DATE	DESCRIPTION

DATE: JANUARY 2024

SHEET TITLE: ALTERNATE BID FIRE DETECTION & ALARM

E3.0