



347 SOUTH FERGUSON, SUITE 3 BOZEMAN, MONTANA 59718 406.404.1588

PROJECT NO.: MSU# 25-1282 AAI# 25031.01

STRUCTURAL ENGINEER TAMARACK GROVE ENGINEERING 208-345-8941

ELECTRICAL ENGINEER
ASSOCIATED
CONSTRUCTION
ENGINEERING (ACE) INC.
406-388-3320

### MONTANA STATE UNIVERSITY POST FARM SEED STORAGE EXPANSION

8431 HUFFINE LANE, BOZEMAN, MT 59718

CLIENT PROJECT NO.: 25-1282

100% MSU REVIEW SET

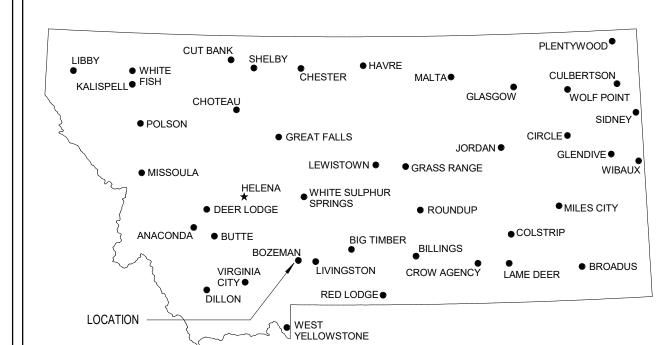
ISSUE DATE: 10/13/2025

### PROJECT DESCRIPTION

### MONTANA STATE UNIVERSITY - POST FARM SEED STORAGE BARN EXPANSION

THE SEED STORAGE BARN EXPANSION AT MONTANA STATE UNIVERSITY'S POST FARM INVOLVES EXTENDING THE EXISTING STRUCTURE BY 36 FEET TO THE EAST, MAINTAINING THE CURRENT WIDTH AND ARCHITECTURAL CONSISTENCY OF THE MAIN BUILDING. THE DESIGN CONTINUES THE EXISTING POST-AND-TRUSS STRUCTURAL LAYOUT TO ENSURE SEAMLESS INTEGRATION WITH THE ORIGINAL CONSTRUCTION. AS PART OF THE EXPANSION, THE EXISTING EAST WALL WILL BE REMOVED TO CREATE A CONTINUOUS STORAGE VOLUME. ADDITIONALLY, THE EXISTING MAN DOOR AND OVERHEAD DOOR WILL BE CAREFULLY SALVAGED AND REINSTALLED IN THE NEW EAST WALL OF THE EXPANDED STRUCTURE. ELECTRICAL AND LIGHTING LAYOUTS WILL CONTINUE WITH EXISTING LAYOUTS THROUGHOUT THE EXPANSION.

### STATE MAP



### **VICINITY MAP**



### DRAWING INDEX

### **GENERAL**

- GENERAL NOTES, ABBREVIATIONS, LOCATION MAP AND SHEET INDEX

### **ARCHITECTURAL**

- DEMOLITION PLAN
- A1.00 SITE PLAN / LIFE SAFTEY
- A1.01 FLOOR PLAN
- A1.02 **ROOF PLAN**
- A2.01 **EXTERIOR ELEVATIONS**
- A3.01 SECTIONS & DETAILS **SPECIFICATIONS**
- A4.02 SPECIFICATIONS

### STRUCTURAL

- GENERAL STRUCTURAL NOTES GENERAL STRUCTURAL NOTES
- FOUNDATION PLAN S1.0
- S2.0 ROOF FRAMING PLAN S3.0 DETAILS

### **ELECTRICAL**

ELECTRICAL COVER E001

3

ELECTRICAL DEMO PLAN ELECTRICAL REMODEL PLAN

### **ARCHITECTS** ALASKA

347 S. Ferguson Avenue, Suite 3 Bozeman MT, 59718 406.404.1588

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### ARCHITECTURAL DRAWING CONVENTIONS - ELEVATION NO. - PARTITION A = ARCHITECTURAL ASSEMBLY D = DEMOLITION (ARCHITECTURAL) E = ELECTRICAL A101 **EQUIPMENT KEY** H = HAZMATG = GENERAL SHEET NUMBER SHEET NUMBER SHEET NUMBER L = LANDSCAPE NUMERIC GRIDS M = MECHANICAL - DISCIPLINE - DISCIPLINE REFER TO SHEET DISCIPLINE S = STRUCTURAL NOTES HORIZONTALLY REFER TO PARTITION TYPES DISCIPLINE **NORTH ARROW GRID LINES** SHEET NOTE TAG **BLDG./WALL SECTION DETAIL EXTERIOR ELEVATION PARTITION TYPE EQUIPMENT TAG ROOM NAME** REVISION NUMBER SHADED SIDE OF THE ELEVATION NO. REVISION MATCHLINE IS THE SIDE \_\_ DOOR # BY ROOM CLOUD **UNDER CONSIDERATION** Room náme A 101 SHEET NUMBER REFER TO WINDOW TYPES ROOM NUMBER - DISCIPLINE **DEMOLITION** VERT. CONTROL POINT **REVISIONS** DOOR NUMBER WINDOW TYPE **ROOM TAG** INTERIOR ELEVATION MATCHLINE

### **GENERAL PROJECT NOTES**

- ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THE BUILDING CODES OUTLINED ON THE LIFE SAFETY PLAN, AND ALL OTHER STATE AND LOCAL CODES, INCLUDING ALL AMENDMENTS.
- ALL WORK SHALL CONFORM TO THE AMERICAN DISABILITIES ACT (A.D.A.) ACCESSIBILITY GUIDELINES FOR BUILDING AND FACILITIES (A.D.D.A.G.) AND A.N.S.I. 117.1 UNLESS NOTED
- ALL DIMENSIONS ARE TO FACE OF STUD, FACE OF CONCRETE, FACE OF C.M.U., TO CENTERLINE OF STRUCTURAL COLUMN, OR TO STRUCTURAL GRID-LINE UNLESS NOTED
- DIMENSIONS NOTED AS 'CLEAR' (OR CLR.) SHALL BE TO FINISHED FACE.
- DO NOT SCALE THE DRAWINGS TO OBTAIN CONSTRUCTION DIMENSIONS

Drawn by Author 10/13/2025 Checked MSU# 25-1282 Checker AAI# 25031.01

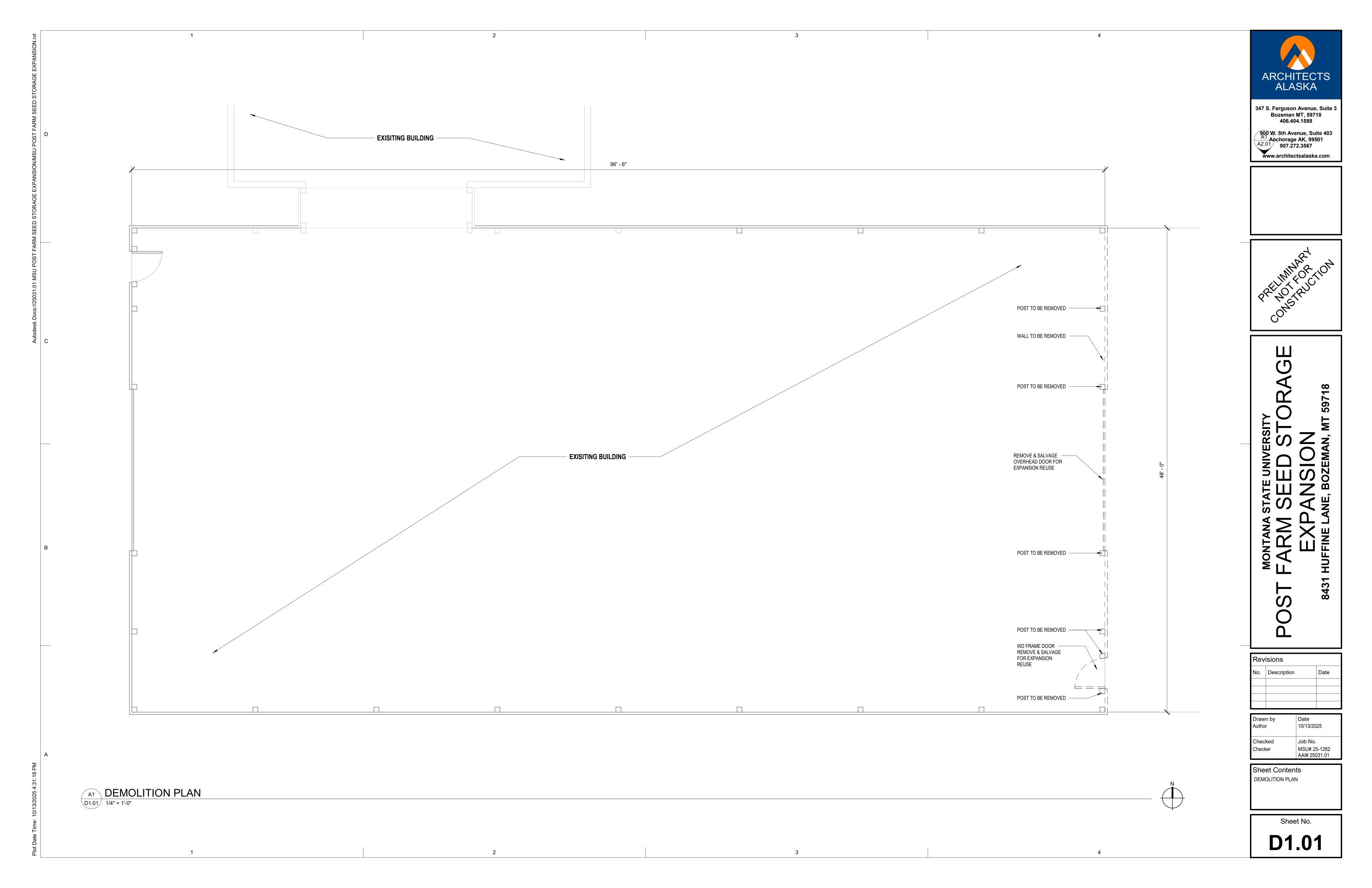
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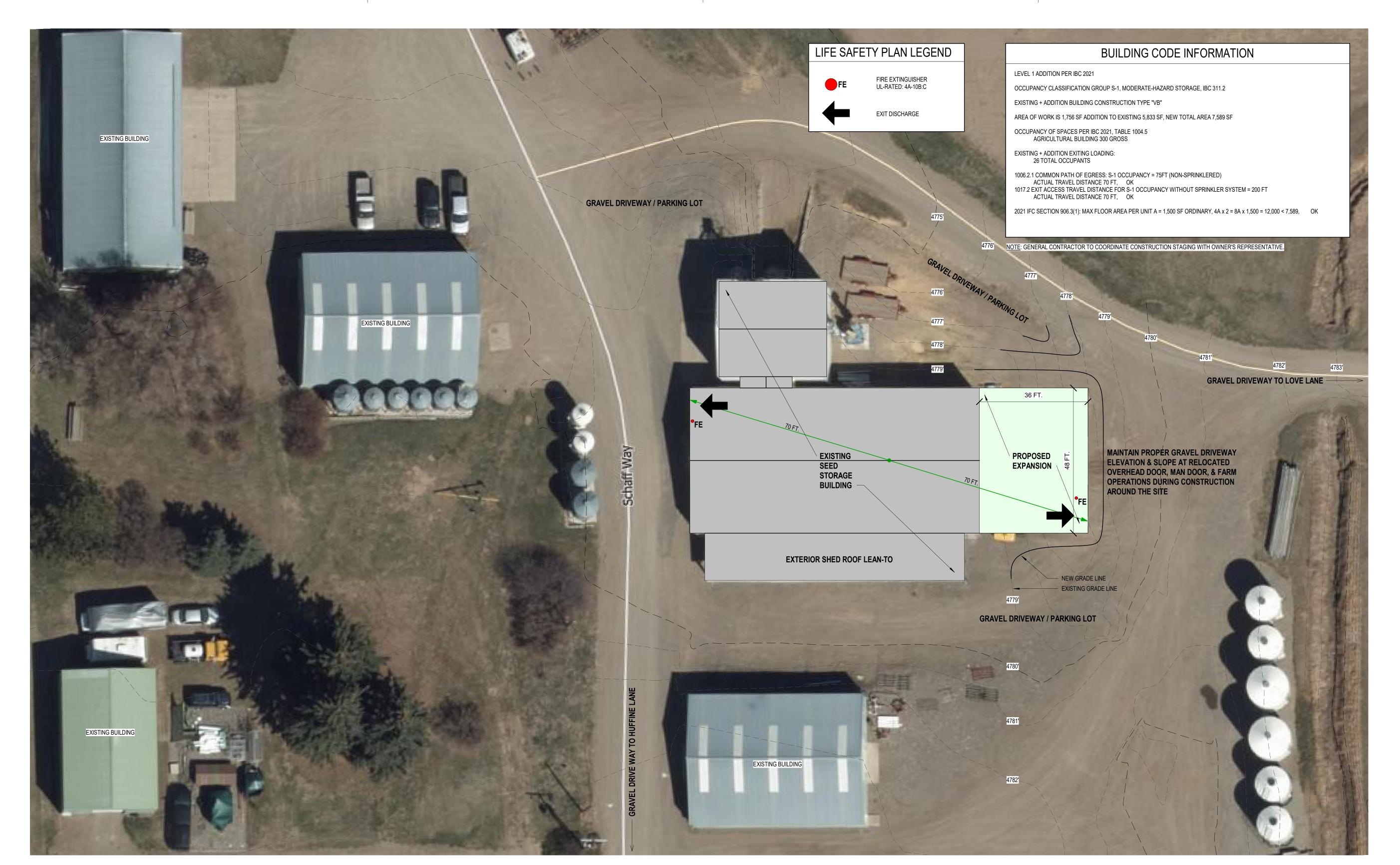
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Sheet Contents GENERAL NOTES, ABBREVIATIONS LOCATION MAP AND SHEET INDEX

Sheet No.

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PREINITION CONSTRUCTION

### D STORAGE SMAN, MT 59718

### POST FARM SEED STOR/ EXPANSION

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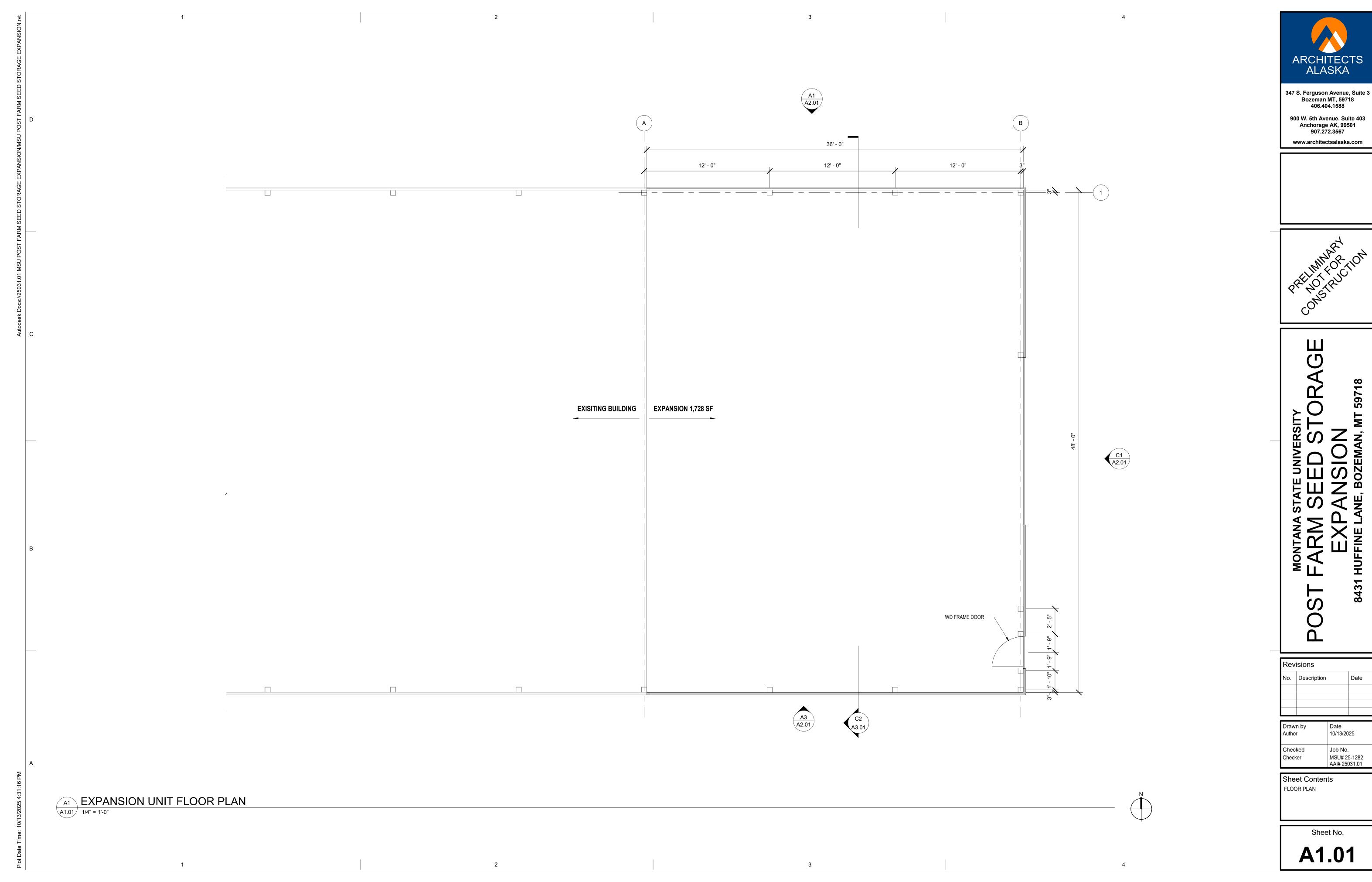
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Sheet Contents
SITE PLAN / LIFE SAFTEY

Sheet No

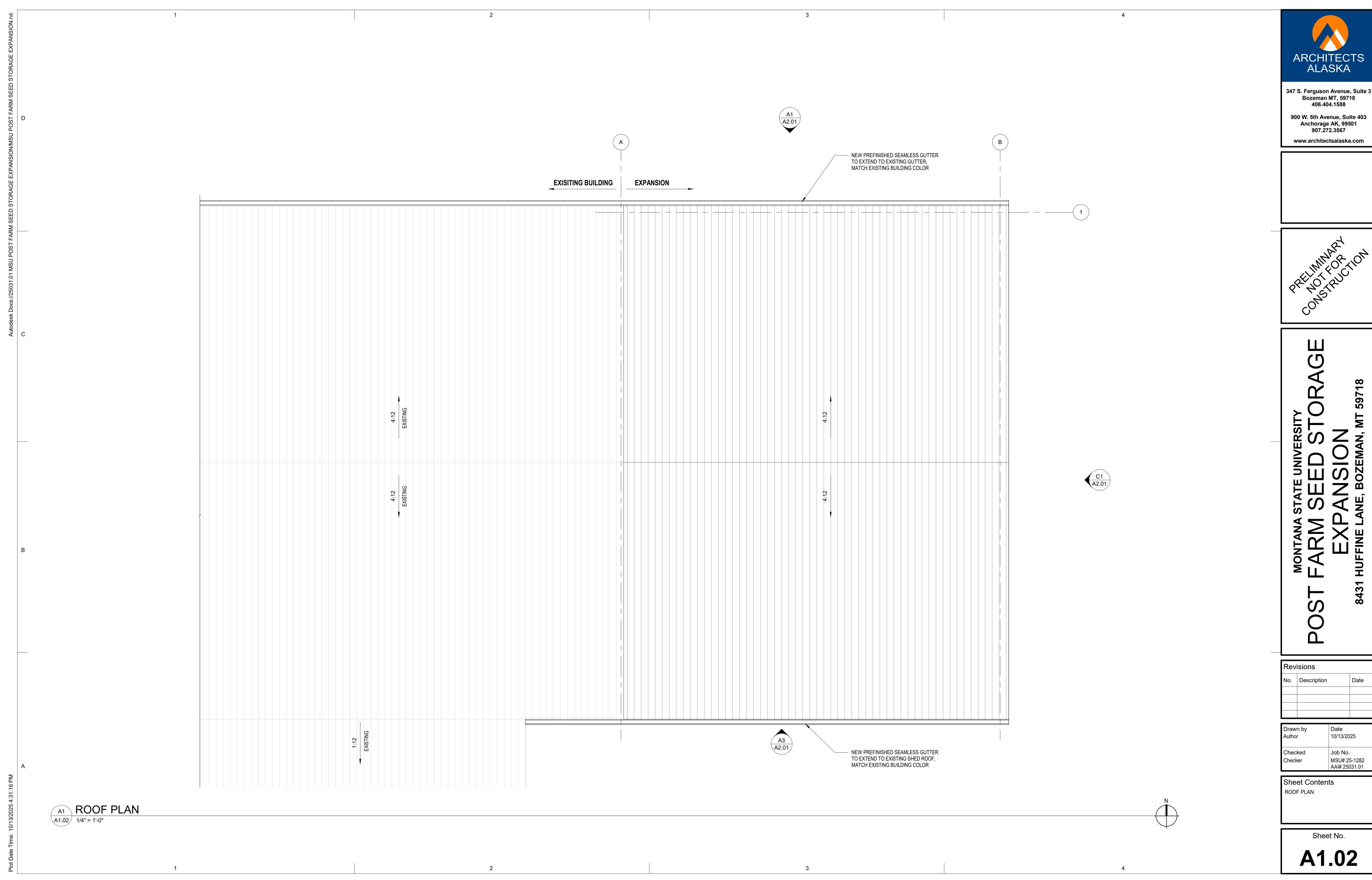
A1.00

A1 ARCHITECTURAL SITE PLAN
A1.00 1/16" = 1'-0"



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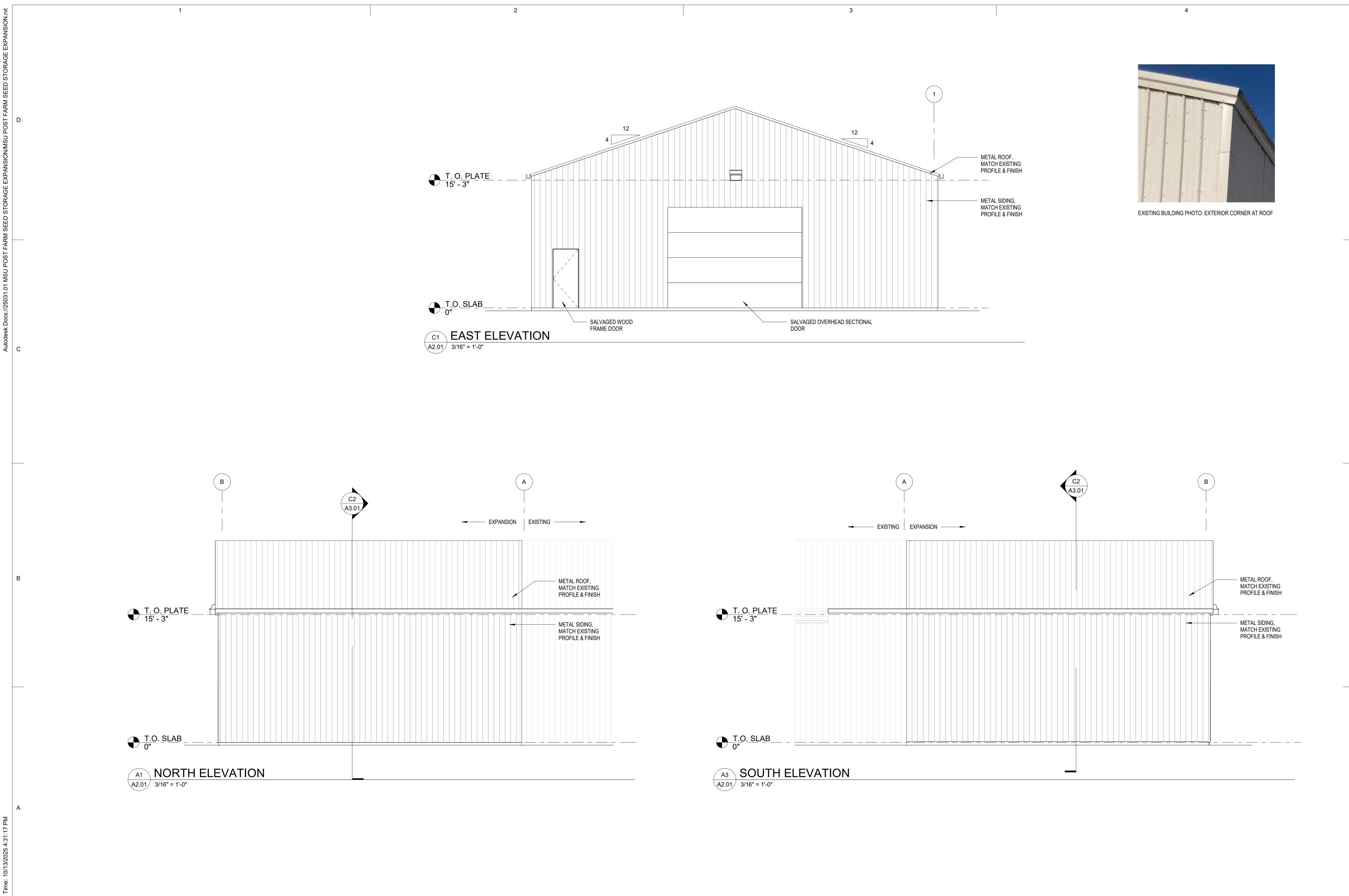
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A1.02



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PRELIMITEDRION

### PRELIMITE OF TRUCTION CONSTRUCTOR CONSTRUC

POST FARM SEED STORAGE EXPANSION

EXPANSION

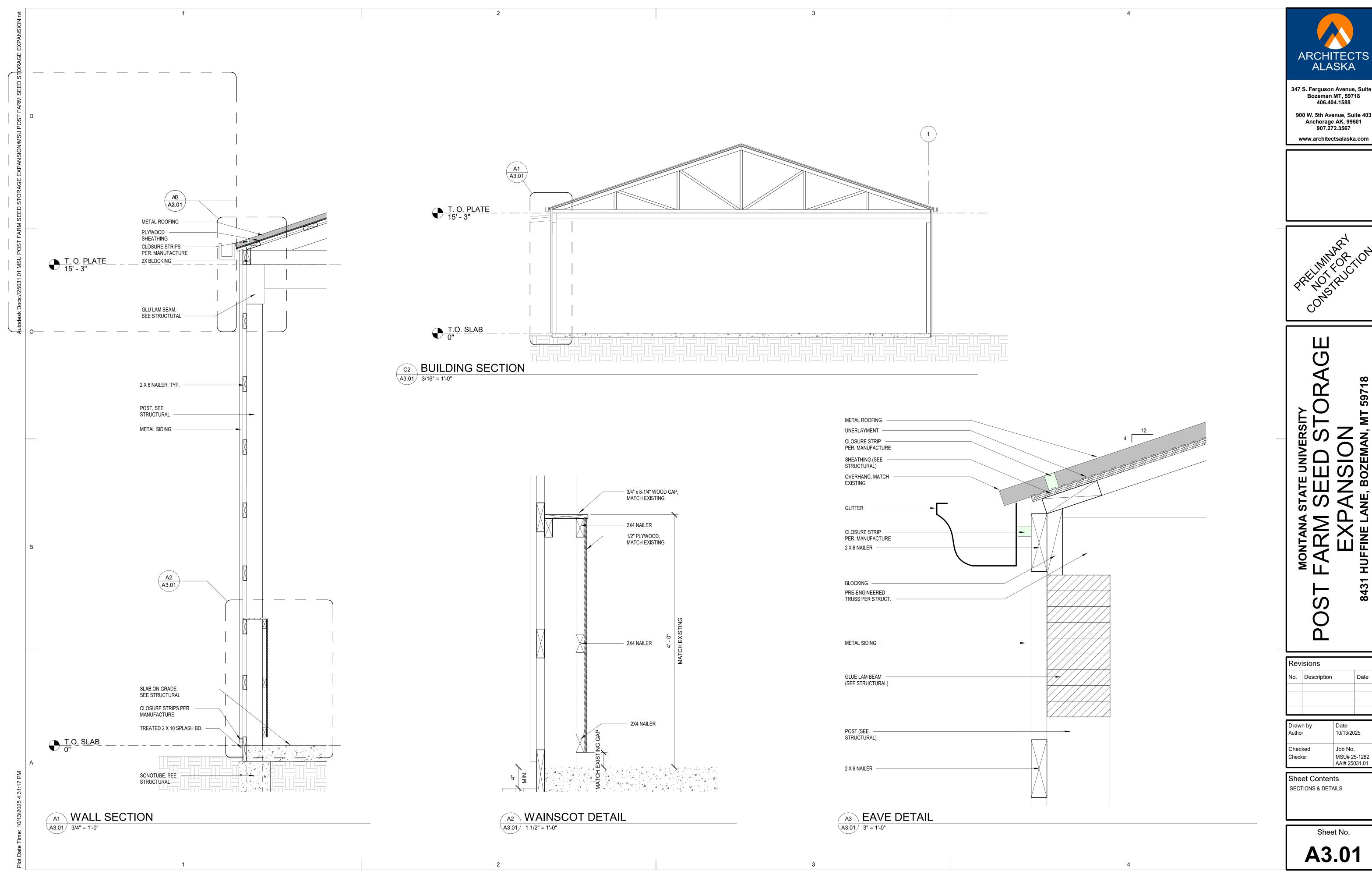
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Sheet Contents
EXTERIOR ELEVATIONS

Sheet No. **A2.01** 





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SECTIONS & DETAILS

Sheet No.

A3.01

### DIVISION 02 - EXISTING CONDITIONS

### SECTION 02 4100 - DEMOLITION

- SECTION INCLUDES
- Selective demolition of building elements for alteration purposes.
- 1.02 RELATED REQUIREMENTS
- A. Section 01 1000 Summary: Limitations on Contractor's use of site and premises.
- Section 01 1000 Summary: Description of items to be salvaged or removed for re-use by Contractor.
- C. Section 01 5000 Temporary Facilities and Controls: Site fences, security, protective barriers, and waste removal.
- D. Section 01 6000 Product Requirements: Handling and storage of items removed for salvage and relocation.
- E. Section 01 7000 Execution and Closeout Requirements: Project conditions; protection of bench marks, survey control points, and existing construction to remain; reinstallation of removed products; temporary bracing and shoring.
- F. Section 31 2200 Grading: Rough and fine grading.
- G. Section 31 2323 Fill: Fill material for filling holes, pits, and excavations generated as a result of removal operations.
- **DEFINITIONS**
- A. Remove: Detach or dismantle items from existing construction and dispose of them off site, unless items are indicated to be salvaged or
- B. Remove and Salvage: Detach or dismantle items from existing construction in a manner to prevent damage. Clean, package, label and deliver salvaged items to Owner in ready-for-reuse condition.
- C. Remove and Reinstall: Detach or dismantle items from existing construction in a manner to prevent damage. Clean and prepare for reuse and reinstall where indicated.
- D. Existing to Remain: Designation for existing items that are not to be removed and that are not otherwise indicated to be salvaged or reinstalled.
- 1.04 REFERENCE STANDARDS
- A. 29 CFR 1926 Safety and Health Regulations for Construction; Current Edition.
- B. NFPA 241 Standard for Safeguarding Construction, Alteration, and Demolition Operations; 2022, with Errata (2021).

### PART 3 EXECUTION

- A. Remove other items indicated, for salvage, relocation, and recycling.
- Fill excavations, open pits, and holes in ground areas generated as result of removals, using specified fill; compact fill as specified in Section 31
- GENERAL PROCEDURES AND PROJECT CONDITIONS
- A. Comply with applicable codes and regulations for demolition operations and safety of adjacent structures and the public.
- Obtain required permits.
- Take precautions to prevent catastrophic or uncontrolled collapse of structures to be removed; do not allow worker or public access within range of potential collapse of unstable structures.
- Provide, erect, and maintain temporary barriers and security devices.
- 4. Conduct operations to minimize effects on and interference with adjacent structures and occupants.
- Do not close or obstruct roadways or sidewalks without permits from authority having jurisdiction.
- Conduct operations to minimize obstruction of public and private entrances and exits. Do not obstruct required exits at any time. Protect persons using entrances and exits from removal operations. 7. Obtain written permission from owners of adjacent properties when demolition equipment will traverse, infringe upon, or limit access to
- C. Protect existing structures and other elements to remain in place and not removed.
  - Provide bracing and shoring.
  - Prevent movement or settlement of adjacent structures. Stop work immediately if adjacent structures appear to be in danger.
- D. Hazardous Materials
  - If hazardous materials are discovered during removal operations, stop work and notify Architect and Owner; hazardous materials include regulated asbestos containing materials, lead, PCBs, and mercury.
- E. Perform demolition in a manner that maximizes salvage and recycling of materials.
- Dismantle existing construction and separate materials.
- Set aside reusable, recyclable, and salvageable materials; store and deliver to collection point or point of reuse.
- 2.03 EXISTING UTILITIES
- A. Coordinate work with utility companies. Notify utilities before starting work, comply with their requirements, and obtain required permits.
- B. Protect existing utilities to remain from damage.
- C. Do not disrupt public utilities without permit from authority having jurisdiction.
- D. Do not close, shut off, or disrupt existing life safety systems that are in use without at least 7 days prior written notification to Owner.
- E. Do not close, shut off, or disrupt existing utility branches or take-offs that are in use without at least 3 days prior written notification to Owner.
- F. Locate and mark utilities to remain; mark using highly visible tags or flags, with identification of utility type; protect from damage due to subsequent construction, using substantial barricades if necessary.
- G. Remove exposed piping, valves, meters, equipment, supports, and foundations of disconnected and abandoned utilities.
- SELECTIVE DEMOLITION FOR ALTERATIONS
- A. Existing construction and utilities indicated on drawings are based on casual field observation and existing record documents only.
  - Verify construction and utility arrangements are as indicated.
  - Report discrepancies to Architect before disturbing existing installation.
  - Beginning of demolition work constitutes acceptance of existing conditions that would be apparent upon examination prior to starting
- B. Remove existing work as indicated and required to accomplish new work.
  - Remove items indicated on drawings.

- Services including, but not limited to, HVAC, Plumbing, Fire Protection, Electrical, and Telecommunications: Remove existing systems and equipment as indicated.
- Maintain existing active systems to remain in operation, and maintain access to equipment and operational components.
- 2. Where existing active systems serve occupied facilities but are to be replaced with new services, maintain existing systems in service until new systems are complete and ready for service.
- Verify that abandoned services serve only abandoned facilities before removal.
- 4. Remove abandoned pipe, ducts, conduits, and equipment, including those above accessible ceilings. Remove back to source of supply where possible, otherwise cap stub and tag with identification.
- D. Protect existing work to remain.
- Prevent movement of structure. Provide shoring and bracing as required.
- Perform cutting to accomplish removal work neatly and as specified for cutting new work.
- Repair adjacent construction and finishes damaged during removal work. 4. Patch to match new work.
- DEBRIS AND WASTE REMOVAL
- Remove debris, junk, and trash from site.
- B. Leave site in clean condition, ready for subsequent work.
- C. Clean up spillage and wind-blown debris from public and private lands.

### DIVISION 06 - WOOD, PLASTICS, AND COMPOSITES

### SECTION 06 1000 - ROUGH CARPENTRY

### PART 1 GENERAL

- SECTION INCLUDES
- Structural dimension lumber framing.
- B. Nonstructural dimension lumber framing.
- C. Rough opening framing for doors, windows, and roof openings.
- D. Sheathing.
- E. Roofing nailers.
- Preservative treated wood materials.
- 1.02 REFERENCE STANDARDS
- A. AWPA U1 Use Category System: User Specification for Treated Wood; 2025.
- PS 20 American Softwood Lumber Standard; 2025.
- 1.03 SUBMITTALS
- A. See Section 01 3000 Administrative Requirements for submittal procedures.
- B. Product Data: Provide technical data on wood preservative materials and application instructions.
- C. ABAA Field Quality Control Submittals: Submit third-party reports of testing and inspection required by ABAA QAP.
- ABAA Manufacturer Qualification: Submit documentation of current evaluation of proposed manufacturer and materials.
- ABAA Installer Qualification: Submit documentation of current contractor accreditation and current installer certification. Keep copies of all contractor accreditation and installer certification on site during and after installation. Present on-site documentation upon request.
- 1.04 QUALITY ASSURANCE
- Air Barrier Association of America (ABAA) Quality Assurance Program (QAP); www.airbarrier.org/#sle

Use secondary materials approved in writing by primary material manufacturer.

- Installer Qualification: Use accredited contractor, certified installers, evaluated materials, and third-party field quality control audit. 2. Manufacturer Qualification: Use evaluated materials from a single manufacturer regularly engaged in air barrier material manufacture.
- B. Air Barrier Association of America (ABAA) Evaluated Materials Program (EAP); www.airbarrier.org/#sle: Use evaluated materials from a single manufacturer regularly engaged in air barrier material manufacture. Use secondary materials approved in writing by primary material

### PART 2 PRODUCTS

- 2.01 GENERAL REQUIREMENTS
- A. Dimension Lumber: Comply with PS 20 and requirements of specified grading agencies.
- Species: Douglas Fir-Larch, unless otherwise indicated.
- 2. If no species is specified, provide species graded by the agency specified; if no grading agency is specified, provide lumber graded by grading agency meeting the specified requirements.
- Grading Agency: Grading agency whose rules are approved by the Board of Review, American Lumber Standard Committee at www.alsc.org, and who provides grading service for the species and grade specified; provide lumber stamped with grade mark unless
- 4. Lumber of other species or grades is acceptable provided structural and appearance characteristics are equivalent to or better than
- Lumber salvaged from deconstruction or demolition of existing buildings or structures is permitted provided it is clean, denailed, and free of paint and finish materials, and other contamination; identify source.
- DIMENSION LUMBER FOR CONCEALED APPLICATIONS
- Sizes: Nominal sizes as indicated on drawings,
- Moisture Content: S-dry or MC19.
- Miscellaneous Framing, Blocking, Nailers, Grounds, and Furring:
- Lumber: S4S, No. 2 or Standard Grade. 2. Boards: Standard or No. 3.
- CONSTRUCTION PANELS
- FACTORY WOOD TREATMENT
- Treated Lumber and Plywood: Comply with requirements of AWPA U1 Use Category System for wood treatments determined by use categories, expected service conditions, and specific applications.

### DIVISION 07 - THERMAL AND MOISTURE PROTECTION

### SECTION 07 6100 - SHEET METAL ROOFING

### PART 1 GENERAL

- 1.01 SECTION INCLUDES
- A. Sheet metal roofing, associated flashings, and underlayment.
- B. Sealants for joints within sheet metal fabrications.
- 1.02 REFERENCE STANDARDS
- A. AAMA 611 Specification for Anodized Architectural Aluminum; 2024.
- B. ASTM A792/A792M Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot-Dip Process; 2023.
- C. ASTM C920 Standard Specification for Elastomeric Joint Sealants; 2018 (Reapproved 2024).
- D. ASTM D1970/D1970M Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection; 2021.
- E. ICC-ES AC188 Acceptance Criteria for Roof Underlayments; 2023.

A. Product Data: Provide data on metal types, finishes, characteristics.

- SMACNA (ASMM) Architectural Sheet Metal Manual; 2012
- 1.03 SUBMITTALS
- A. Perform work in accordance with SMACNA (ASMM) requirements and standard details, except as otherwise noted.

1.04 QUALITY ASSURANCE

- 1.05 DELIVERY, STORAGE, AND HANDLING
- A. Stack material to prevent twisting, bending, or abrasion, and to provide ventilation. Slope metal sheets to ensure drainage. Prevent contact with materials that could cause discoloration or staining.
- 1.06 WARRANTY
- A. Provide 5-year manufacturer warranty for Warranty shall include degradation of metal finish.

### PART 2 PRODUCTS

- 2.01 MANUFACTURERS
- A. Sheet Metal Roofing Manufacturers:
- 1. Construction Metal Products, Inc: www.cmpmetalsystems.com/#sle.
- 2. Or approved Equal.
- 2.02 SHEET MATERIALS
- A. Aluminum-Zinc Alloy Coated Steel Sheet (Galvalume): ASTM A792/A792M, with AZ55/AZM165 coating designation; 24 gauge, 0.0239 inch thick.
- 2.03 FABRICATION
- A. Form sections true to shape, accurate in size, square, and free from distortion or defects.
- B. Fabricate cleats of same material as sheet, thickness to match roofing sheet, interlockable with sheet
- C. Fabricate starter strips, interlockable with sheet.
- D. Form pieces in longest practical lengths.
- E. Hem exposed edges on underside 1/2 inch; miter and seam corners. F. Fabricate corners from single piece with minimum 18-inch long legs; seam for rigidity, seal with sealant.
- 2.04 FINISHES
- A. Clear Anodized Finish: AAMA 611 AA-M12C22A41 Class I clear anodic coating not less than 0.7 mil, 0.0007 inch thick.
- Color: As selected by Architect from manufacturer's standard colors. To match as closely as possible to existing building.
- 2.05 ACCESSORIES
- A. Fasteners: Galvanized steel, with soft neoprene washers.
- Underlayment: Synthetic non-asphaltic sheet, intended by manufacturer for self adhered fastened roofing underlayment. Minimum Requirements: Comply with requirements of ICC-ES AC188 for non-self-adhesive sheet.
- Ultraviolet Resistance and Weatherability: Approved in writing by manufacturer for exposure to weather for minimum of 12 months. Low Temperature Flexibility: Passing test specified in ASTM D1970/D1970M.
- Fasteners: As specified by manufacturer and building code qualification report or approval, if any.
- C. Concealed Sealants: Non-curing butyl sealant or butyl tape. D. Exposed Sealants: ASTM C920 elastomeric sealant, with minimum movement capability as recommended by manufacturer for sealed substrates; color to match adjacent material.

### PART 3 EXECUTION

- 3.01 EXAMINATION
- A. Inspect roof deck to verify deck is clean and smooth, free of depressions, waves, or projections, properly sloped to drains.
- Verify deck is dry and free of snow or ice. Verify joints in wood deck are solidly supported and fastened.
- C. Verify correct placement of wood nailers and insulation positioning between nailers.
- D. Verify roofing termination and base flashings are in place, sealed, and secure.
- 3.02 PREPARATION
- A. Install starter and edge strips, and cleats before starting installation.
- Back paint concealed metal surfaces and surfaces in contact with dissimilar metals with protective backing paint to a minimum dry film thickness of 15 mil, 0.015 inch.
- 3.03 INSTALLATION

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Revisions Description

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**Sheet Contents** SPECIFICATIONS

A. Roofing:

END OF SECTION

PART 1 GENERAL

1.01 SECTION INCLUDES

B. Precast concrete splash pads.

RELATED REQUIREMENTS

REFERENCE STANDARDS

A. Section 07 6100 - Sheet Metal Roofing.

1.04 ADMINISTRATIVE REQUIREMENTS

1.06 DELIVERY, STORAGE, AND HANDLING

**SUBMITTALS** 

PART 2 PRODUCTS

2.01 MANUFACTURERS

MATERIALS

COMPONENTS

A. Gutters and Downspouts:

A. Pre-finished aluminum gutters and downspouts.

1. Apply underlayment over entire roof area, as follows:

2. Use butyl tape to seal concealed joints between metal roofing surfaces.

AAMA 611 - Specification for Anodized Architectural Aluminum; 2024.

C. ASTM B209/B209M - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate; 2021a.

Extrusions and Panels (with Coil Coating Appendix); 2022.

D. SMACNA (ASMM) - Architectural Sheet Metal Manual; 2012.

B. Product Data: Provide data on prefabricated components.

Alside, Inc: www.alside.com/#sle.

A. Gutters: Match Existing rectangular style profile.

performance. Allow for expansion at joints.

A. Pre-Finished Aluminum Sheet: ASTM B209/B209M; 0.032 inch thick. Finish: Plain, shop pre-coated with acrylic coating.

2. Or Approved Manufacturer..

B. Comply with applicable code for size and method of rain water discharge.

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

B. Prevent contact with materials that could cause discoloration, staining, or damage.

A. Stack material to prevent twisting, bending, or abrasion, and to provide ventilation. Slope to drain.

2. Color: As selected from manufacturer's standard colors. Closest to Existing Building Color.

a. Apply in single layer, laid perpendicular to slope; weather lap edges 2 inches and nail in place.

SECTION 07 7123 - MANUFACTURED GUTTERS AND DOWNSPOUTS

B. AAMA 2603 - Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum

A. Comply with SMACNA (ASMM) for sizing components for rainfall intensity determined by a storm occurrence of 1 in 5 years.

2.02

B. Fabricate with required connection pieces. C. Form sections square, true, and accurate in size, in maximum possible lengths, free of distortion or defects detrimental to appearance or

D. Hem exposed edges of metal. Fabricate gutter and downspout accessories; seal watertight.

**FINISHES** 

A. Class I Clear Anodized Finish: AAMA 611 AA-M12C22A41, clear anodic coating not less than 0.7 mil, 0.0007 inch thick.

B. Modified silicone polyester coating: Baked enamel system, comply with AAMA 2603.

ACCESSORIES A. Splash Pads: Precast concrete type, profiles size(s) as indicated; minimum 3,000 psi compressive strength at 28 days, with minimum 5 percent

PART 3 EXECUTION

**EXAMINATION** 

A. Verify existing conditions before starting work.

Verify that surfaces are ready to receive work.

**INSTALLATION** 

A. Install gutters, downspouts, and accessories in accordance with manufacturer's instructions.

B. Sheet Metal: Join lengths with formed seams sealed watertight. Flash and seal gutters to downspouts and accessories.

C. Slope gutters 1/4" inch per 10 feet, \_\_\_\_ percent minimum.

END OF SECTION

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**Sheet Contents** SPECIFICATIONS

INTERNAL PRESSURE COEFFICIENT(S):

ALLOWABLE SOIL BEARING PRESSURE:

c. GEOTECHNICAL REPORT PREPARED BY, (REPORT #):

a. SEE PLANS FOR ALL EQUIPMENT DESIGN WEIGHTS.

MINIMUM FROST/BEARING DEPTH:

SOILS DESIGN DATA

SPECIAL DESIGN DATA

± 0.18

1500 PSF

N/A

### 2 GENERAL STRUCTURAL NOTES

- THE TERM CONTRACTOR (G.C.) AS USED IN THESE DOCUMENTS REFERS TO THE CONTRACTOR / CONSTRUCTION MANAGER IN RESPONSIBLE CHARGE OF THE PROJECT IN TERMS OF COORDINATION, SCHEDULING, SUBCONTRACTOR COORDINATION, ETC. THE TERM IS REFERENCING THE ENTITY THAT COORDINATES THE WORK OF OTHER TRADES.
- ALL REFERENCED STANDARDS, SUCH AS CODES, SPECIFICATIONS, AND OTHER PUBLICATIONS NOTED HEREIN, ARE INTENDED TO REFER TO THE EDITION OF SAID STANDARD AS REFERENCED BY THE GOVERNING CODE OR THE LATEST EDITION PUBLISHED AS OF THE DATE ON THE CONSTRUCTION DOCUMENTS.
- THE CONSTRUCTION DOCUMENTS ARE INTENDED TO SHOW THE GENERAL CHARACTER AND EXTENT OF THE PROJECT ARE NOT INTENDED TO SHOW ALL DETAILS OF WORK. DETAILS, SECTIONS AND NOTES SHOWN ON DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR CONDITIONS ELSEWHERE, U.N.O. IF LOCATIONS ARE FOUND WHERE NO TYPICAL DETAIL TYPICAL SCHEDULE OR SPECIFIC DETAIL APPLIES, NOTIFY E.O.R.
- DIMENSIONS ARE NOT TO BE DERIVED BY SCALING THE CONSTRUCTION DOCUMENTS FOR LOCATIONS, QUANTITY TAKEOFFS,
- MATERIAL SIZES, ETC. IF THERE IS A QUESTION ABOUT DIMENSIONS, CONTACT THE ARCHITECT OR E.O.R. FOR CLARIFICATION. WHERE CONFLICTS EXIST BETWEEN CONSTRUCTION DOCUMENTS, THE STRICTEST REQUIREMENTS AS INDICATED BY THE E.O.R.
- THE CONTRACTOR SHALL COORDINATE ARCHITECTURAL, MECHANICAL, ELECTRICAL, CIVIL, PLUMBING AND DEFERRED SUBMITTAL DRAWINGS TO HAVE A COMPLETE SCOPE OF WORK INVOLVED IN THIS PROJECT. REFER TO PROJECT SPECIFICATIONS ISSUED AS
- PART OF THE CONSTRUCTION DOCUMENTS FOR INFORMATION SUPPLEMENTAL TO THESE DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE. CONFLICTS BETWEEN THE CONSTRUCTION DOCUMENTS AND ACTUAL SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND E.O.R. PRIOR TO
- PROCEEDING WITH CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS, UNLESS SUCH CHANGES ARE AUTHORIZED IN WRITING BY THE E.O.R.
- THE CONTRACTOR SHALL PERFORM ALL CONSTRUCTION FOR THE PROJECT IN A MANNER AND SEQUENCE THAT ARE BASED ON ACCEPTED INDUSTRY STANDARDS THAT RECOGNIZE THE INTERACTION OF THE COMPONENTS THAT COMPRISE THE STRUCTURE WITHOUT CAUSING DISTRESS, UNANTICIPATED MOVEMENTS OR IRREGULAR LOAD PATHS AS A RESULT OF THE CONSTRUCTION MEANS AND METHODS EMPLOYED.
- THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS OF CONSTRUCTION AND THE STRENGTH AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE SAFE AND ADEQUATE SHORING, BRACING AND TEMPORARY STRUCTURAL STABILITY THROUGHOUT CONSTRUCTION. E.O.R. IS RESPONSIBLE ONLY FOR THE PRIMARY STRUCTURE IN ITS
- FALL PROTECTION SUPPORT FROM PERIMETER OF THE STRUCTURE SHALL BE PROVIDED IN ACCORDANCE WITH OSHA REQUIREMENTS AS REQUIRED.
- THE CONTRACTOR IS RESPONSIBLE TO ENFORCE ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF
- NO STRUCTURAL MEMBER SHALL BE CUT OR NOTCHED OR OTHERWISE REDUCED IN STRENGTH UNLESS APPROVED BY THE E.O.R.
- CONSTRUCTION LOADS AND MATERIALS SHALL BE SPREAD OUT WHEN PLACED ON FRAMED FLOORS OR ROOFS. LOADS ON THE STRUCTURE DURING CONSTRUCTION SHALL NOT EXCEED THE DESIGN LOADS AS NOTED IN THE DESIGN CRITERIA.
- ALTERNATE PRODUCTS OF SIMILAR STRENGTH, NATURE AND FORM FOR SPECIFIED ITEMS MAY BE SUBMITTED WITH ADEQUATE TECHNICAL DOCUMENTATION TO THE E.O.R. FOR REVIEW. ALTERNATE MATERIALS THAT ARE SUBMITTED WITHOUT ADEQUATE TECHNICAL DOCUMENTATION OR THAT SIGNIFICANTLY DEVIATE FROM THE DESIGN INTENT OF MATERIALS SPECIFIED MAY BE RETURNED WITHOUT REVIEW. ALTERNATES THAT REQUIRE SUBSTANTIAL EFFORT TO REVIEW WILL NOT BE REVIEWED UNLESS
- ANCHORAGE AND SUPPORT OF MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK AND PIPING IS TO BE DESIGN BY OTHERS. ALL SUSPENDED EQUIPMENT IS TO BE SECURED WITH LATERAL BRACING BY OTHERS.
- SITE VISITS BY REPRESENTATIVES OF THE E.O.R. DO NOT INCLUDE INSPECTION OF CONSTRUCTION MEANS AND METHODS. SITE VISIT DURING CONSTRUCTION ARE NOT CONTINUOUS AND DETAILED INSPECTION SERVICES, (WHICH ARE TO BE PERFORMED BY OTHERS). OBSERVATIONS DO NOT GUARANTEE CONTRACTORS PERFORMANCE AND ARE NOT TO BE CONSTRUED AS SUPERVISION OR VERIFICATION OF CONSTRUCTION.

### SHOP DRAWING AND DEFERRED SUBMITTAL REQUIREMENTS

- A. ALL SHOP DRAWINGS AND DEFERRED SUBMITTAL DOCUMENTS SHALL BE SUBMITTED TO THE E.O.R. FOR REVIEW AND APPROVAL. SUBMITTED DOCUMENTS SHALL BEAR THE CONTRACTORS REVIEW STAMP WITH THE CHECKERS INITIALS BEFORE BEING SUBMITTED TO E.O.R. FOR APPROVAL.
- ALL DIFFERED SUBMITTALS SHALL BE STAMPED AND SIGNED BY AN ENGINEER REGISTERED IN THE APPROPRIATE JURISDICTION OF THE PROJECT AND IT SHALL BE THE SOLE RESPONSIBILITY OF THE SPECIALTY ENGINEER INCLUDING, BUT NOT LIMITED TO, DESIGN, COORDINATION, DIMENSIONS AND INTENDED PURPOSE.
- REVIEW OF SUBMITTED DOCUMENTS BY THE E.O.R. SHALL BE FOR GENERAL CONFORMANCE TO THE DESIGN SET FORTH ON THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS.
- DEFERRED SUBMITTAL ITEMS SHALL NOT BE FABRICATED OR INSTALLED UNTIL THE DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND APPROVED BY THE E.O.R. AND BUILDING OFFICIAL.
- WHERE DIMENSIONS AND ELEVATIONS OF EXISTING CONSTRUCTION COULD AFFECT THE NEW CONSTRUCTION, IT IS THE
- CONTRACTORS RESPONSIBLY TO MAKE FIELD MEASUREMENTS IN TIME FOR THEIR INCORPORATION INTO THE SHOP DRAWINGS. ALL DEFERRED SUBMITTAL DOCUMENTS SHALL INCLUDE A QUALITY ASSURANCE PROGRAM FOR SPECIAL INSPECTIONS WHERE

### REQUIRED BY THE GOVERNING CODE. STRUCTURAL OBSERVATION REQUIREMENTS

- WHERE REQUIRED BY THE PROVISIONS OF THE GOVERNING CODE, THE OWNER OR OWNER'S AUTHORIZED AGENT SHALL EMPLOY A REGISTERED DESIGN PROFESSIONAL TO PERFORM STRUCTURAL OBSERVATIONS. THE STRUCTURAL OBSERVER SHALL VISUALLY OBSERVE REPRESENTATIVE LOCATIONS OF STRUCTURAL SYSTEMS. DETAILS AND LOAD PATHS FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY OF THE INSPECTIONS OR SPECIAL INSPECTIONS LISTED IN THE GOVERNING CODE.
- FREQUENCY AND EXTENT OF THE STRUCTURAL OBSERVATIONS SHALL BE SET AND SUBMITTED TO THE BUILDING OFFICIAL.
- STRUCTURAL OBSERVATIONS SHALL BE PROVIDED FOR THOSE STRUCTURES WHERE ONE OR MORE OF THE FOLLOWING
- **CONDITIONS EXIST:** a. THE STRUCTURE IS CLASSIFIED AS RICK CATEGORY (III) OR (IV).
  - b. THE STRUCTURE IS A HIGH-RISE BUILDING.
  - c. THE STRUCTURE IS ASSIGNED TO SEISMIC DESIGN CATEGORY (E) AND IS GREATER THAN TWO STORIES ABOVE
  - d. SUCH OBSERVATION IS REQUIRED BY THE E.O.R. RESPONSIBLE FOR THE STRUCTURAL DESIGN.
- e. SUCH OBSERVATION IS SPECIFICALLY REQUIRED BY THE BUILDING OFFICIAL.

### **EXISTING CONDITIONS**

CONTRACTOR SHALL VERIFY ANY AND ALL APPLICABLE EXISTING CONDITIONS, CONSTRUCTION, DIMENSIONS AND ELEVATIONS AND IMMEDIATELY NOTIFY ARCH. AND EOR OF ANY DISCREPANCIES BEFORE PROCEEDING WITH ANY CONSTRUCTION.

### 3 FOUNDATIONS AND SLABS

- IT IS RECOMMENDED THAT ALL GRADING, EXCAVATION, PLACEMENT AND INSTALLATION OF STRUCTURAL FILL AND FOUNDATIONS BE PERFORMED UNDER THE INSPECTION AND TESTING OF A QUALIFIED GEOTECHNICAL CONSULTANT DURING THE CRITICAL STAGES OF CONSTRUCTION.
- IF A GEOTECHNICAL REPORT HAS BEEN CONDUCTED FOR THE SITE, THE CONTRACTOR SHALL FULLY REVIEW THE REPORT FOR ADDITIONAL REQUIREMENTS AND INFORMATION PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL INVESTIGATE THE SITE DURING CLEARING AND EARTHWORK OPERATION FOR FILLED
- EXCAVATIONS OR BURIED STRUCTURES AND NOTIFY THE E.O.R. IF ANY STRUCTURES ARE FOUND PRIOR TO CONSTRUCTION. DURING EXCAVATION, LOCATE AND PROTECT UNDERGROUND OR CONCEALED UTILITIES WHERE WORK IS BEING
- PERFORMED. WHEN OVERSIZE MATERIALS, CONCRETE, OR ASPHALT ARE ENCOUNTERED, THESE MATERIALS SHOULD BE HAULED OFF SITE AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE CODES AND REGULATIONS.
  - ALL SHALLOW SPREAD FOUNDATIONS SYSTEMS SHALL BEAR ON COMPETENT NATIVE SOILS OR STRUCTURAL FILL PLACED PER THE GEOTECHNICAL REPORT RECOMMENDATIONS. IF THE SITE HAS A LOWER BEARING CAPACITY THAN LISTED, THEN THE FOUNDATION PLAN WILL NEED TO BE REDESIGNED.
- MINIMUM FROST DEPTH LISTED IS FROM LOWEST ADJACENT FINISH GRADE TO BOTTOM OF THE FOOTING. THE MINIMUM FROST DEPTH SHALL BE MAINTAINED FOR ALL EXTERIOR FOOTINGS. THE CONTRACTOR SHALL COORDINATE AND VERIFY WITH ENGINEER OF RECORD PRIOR TO THE PLACEMENT OF FOUNDATIONS.
- ALL STRUCTURAL FILL BELOW FOOTINGS SHALL EXTEND OUT PAST THE EDGE OF THE FOOTING AND SLOPE AT 2 TO 1 (2 VERTICAL TO 1 HORIZONTAL) UNTIL REACHING COMPETENT SOILS.
- ALL WATER SHALL BE REMOVED FROM FOUNDATION EXCAVATIONS PRIOR TO THE PLACEMENT OF CONCRETE. THE CONTRACTOR IS RESPONSIBLE FOR THE GOUND WATER CONTROL SYSTEM DESIGN.
- ALL STRUCTURAL FILL MATERIAL SHOULD BE PLACED IN UNIFORM 12" THICK LOOSE LIFTS AND COMPACTED TO 95% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY A STANDARD PROCTOR AT OPTIMUM MOISTURE CONTENT, IN ACCORDANCE WITH ASTM D1557. IN RESTRICTED AREAS WHERE ONLY HAND-OPERATED EQUIPMENT IS PERMITTED, THE MAXIMUM LOOSE LIFT SHALL BE 8".

### SLAB REQUIREMENTS:

CONSTRUCTION.

- ALL CONCRETE SLABS SHALL HAVE A MINIMUM 4" THICKNESS AND CONTROL JOINTS AT 10'-0" O.C. MAX SPACING. WHERE RECOMMENDED INTERIOR CONCRETE SLABS SHALL HAVE A PLASTIC VAPOR RETARDER PER ASTM E1745 UNDER A MINIMUM OF 6" OF COMPACTED CLEAN GRANULAR STRUCTURAL FILL.
- SEAL ALL VAPOR RETARDER COMPLETELY AROUND ALL PIPES AND CONDUITS. INSPECT VAPOR RETARDER THOROUGHLY AND REPAIR ALL PUNCTURES AND TEARS PRIOR TO PLACING CONCRETE. ALL ALPS SHALL BE 18" MINIMUM AND SEALED CONTINUOUSLY WITH PRESSURE SENSITIVE TAPE.
- ALL SLAB SAWN CONTROL AND CONSTRUCTION JOINTS SHALL BE MADE AS SOON AS POSSIBLE WITHOUT DAMAGE TO THE SURACE. FILLING OF SAWN JOINTS WHERE REQUIRED SHALL BE DELAYED AS LONG AS POSSIBLE TO ALLOW MAXIMUM SHRINKAGE TO OCCUR IN SLABS.
- SEE ARCHITECTURAL PLANS FOR LOCATIONS OF SLAB SLOPES, DEPRESSIONS, CURBS, DRAINS, NON-STRUCTURAL

### PARTITIONS AND OTHER EMBEDDED ITEMS NOT SHOWN ON THE FOUNDATION PLAN.

- ALL FILL MATERIALS BEHIND RETAINING WALLS SHALL BE FULLY DRAINED BY MEANS OF SUB-DRAIN, WEEP HOLES, OR FREE DRAINING AGGREGATE. BACKFILL FINISHED GRADE SHALL BE SLOPED AWAY FROM THE BACKFACE OF RETAINING WALL. THE DESIGN OF RETAINING WALLS AND SUBTERRANEAN BUILDING WALLS ARE BASED ON DRAINED SOILS.
- DO NOT PLACE BACKFILL BEHIND WALLS BEFORE THEY HAVE ATTAINED THEIR DESIGN STRENGTH.
- ANY SUPERIMPOSED LOADS, OTHER THAN RETAINED EARTH, SHALL BE CONSIDERED AS SURCHARGES AND ACCOUNTED FOR IN DESIGN. LOADS APPLIED WITHIN A HORIZONTAL DISTANCE EQUAL TO WALL STEM HEIGHT AS MEASURED FROM BACK FACE OF THE WALL SHALL BE CONSIDERED AS SURCHARGE. TEMPORARY CONSTRUCTION LOADS SHALL NOT BE APPLIED WITHIN A HORIZONTAL DISTANCE EQUAL TO STEM WALL HEIGHT FROM THE BACK FACE OF THE WALL. NOTIFY EOR IF TEMPORARY CONSTRUCTION LOADS WILL BE APPLIED WITHIN THE SPECIFIED HORIZONTAL ZONE PRIOR TO
- THE CONTRACTOR IS RESPONSIBLE TO ADEQUATELY PROTECT ALL EXCAVATION SLOPES. WHERE NECESSARY, SHEET PILES AND SHORING OF EXCAVATION SHALL BE PROVIDED WITH ALL REQUIRED TIEBACKS AND BRACING.
- APPROPRIATE FOUNDATION WATERPROOFING METHODS SHALL BE PROVIDED ON BACKSIDE OF SUB-SURFACE RETAINING WALLS FROM BASE OF WALL TO FINISHED GRADE.

| (E)                | EXISTING   |                  | HEATING VENTILATING AND AIR          |
|--------------------|--|------------------|--------------------------------------|
| (F)<br>(N)         | FUTURE<br>NEW  | HVAC             | CONDITIONING                         |
| (R)                | RENOVATE   | I.D.             | INSIDE DIAMETER                      |
| (iv)<br><b>(</b> _ | CENTERLINE   | IN.              | INCH                                 |
| Ø                  | DIAMETER OR ROUND  | INSUL.           | INSULATION                           |
| I .                | PERPENDICULAR  | INT.             | INTERIOR                             |
|                    | SQUARE   | JT.<br>K.O.      | JOINT<br>KNOCKOUT                    |
| #                  | NUMBER OR POUND  | L.F.             | LINEAL FEET OR FOOT                  |
| <br>@              | AT   | L.L.V.           | LONG LEG VERTICAL                    |
| A.B.               | ANCHOR BOLT  | L.L.H.           | LONG LEG HORIZONTAL                  |
| A.F.F.             | ABOVE FINISH FLOOR   | L.P.             | LOW POINT                            |
| ABV.               | ABOVE  | LSL              | LAMINATED STRAND LUMBER              |
| ADJ.               | ADJUSTABLE   | LAM.<br>LVL      | LAMINATE<br>LAMINATED VENEER LUMBER  |
| AGG.               | AGGREGATE  | LVL<br>LBS.      | POUNDS                               |
| ALT.               | ALLINAINULA  | M.B.             | MACHINE BOLT                         |
|                    | ALUMINUM<br>APPROXIMATE  | M.H.             | MANHOLE                              |
| ARCH.              | ARCHITECTURAL  | M.O.             | MASONRY OPENING                      |
| B.O.               | BOTTOM OF  | MAX.             | MAXIMUM                              |
| B.O.C.             | BOTTOM OF CONCRETE   | MECH.            | MECHANICAL                           |
| B/T                | BETWEEN  | MET.<br>MFR.     | METAL<br>MANUFACTURER                |
| B.N.               | BOUNDARY NAIL(ING)   | MIN.             | MINIMUM                              |
| B.U.<br>BD.        | BUILT-UP<br>BOARD  | MISC.            | MISCELLANEOUS                        |
| BLDG.              | BUILDING   | MT'D             | MOUNTED                              |
| BLK.               | BLOCK  | MTRL             | MATERIAL                             |
| BM.                | BEAM   | N                | NORTH                                |
| BOT.               | BOTTOM   | N.I.C.           | NOT IN CONTRACT                      |
| C.C.               | CENTER TO CENTER   | N.S.<br>N.T.S.   | NEAR SIDE<br>NOT TO SCALE            |
| C.I.<br>C.I.P.     | CAST IN DIACE  | NO.              | NUMBER                               |
| C.I.P.<br>CMU      | CAST IN PLACE<br>CONCRETE MASONRY UNIT   | NOM.             | NOMINAL                              |
| C.O.               | CONCRETE OPENING   | N.S.             | NEAR SIDE                            |
| CLG.               | CEILING  | O/H              | OVERHEAD                             |
| CLR.               | CLEAR  | 0/               | OVER                                 |
| CNTRSK.            |  | O.A.<br>O.C.     | OVER ALL<br>ON CENTER                |
| COL.<br>CONC.      | COLUMN<br>CONCRETE   | 0.C.<br>0.D.     | OUTSIDE DIAMETER                     |
| CONT.              | 001711110110   | O.H.             | OPPOSITE HAND                        |
| CORR.              | CORRIDOR   | OPNG.            | OPENING                              |
| CW/                | CONTINUOUS<br>CORRIDOR<br>COORDINATE WITH  | OPP.             | OPPOSITE                             |
| D.                 | DEEP   | OZ.              | OUNCE<br>POWDER ACTUATED FASTENER    |
| D.B.A.<br>D.F.     | DEFORMED BAR ANCHOR<br>DOUGLAS FIR   | PART             | POWDER ACTUATED FASTENER PARTICLE    |
| D.F.<br>DET.       | DETAIL DETAIL  | P/L              | PROPERTY LINE                        |
| DIA.               | DIAMETER   | PL.              | PLATE                                |
| DIAG.              | DIAGONAL   |                  | PLYWOOD                              |
| DIM.               | DIMENSION  |                  | PRE-ENGINEERED METAL BUILDIN         |
| DN.                | DIMENSION DOWN DRAWING EXPANSION BOLT ECCENTRICALLY BRACED FRAME EXPANSION JOINT | PT.<br>P.S.L.    | POINT<br>PARALLEL STRAND LUMBER      |
| DWG.<br>E.B        | DRAWING  |                  | RADIUS OR RISER                      |
| E.B.E.             | ECCENTRICALLY BRACED FRAME   | R.D.             | ROOF DRAIN                           |
| E.J.               | FXPANSION JOINT  | ∣ K.O.           | ROUGH OPENING                        |
| E.N.               | EDGE NAIL(ING)   | RE:              | REFERENCE (CW/)                      |
| EA.                | EACH   | REINF.           | REINFORCE(D)<br>REQUIRED             |
| EL.                | ELEVATION  |                  | ROOM                                 |
| ELEC.              | ELECTRICAL<br>ELEVATOR   |                  | ROOF TOP UNIT                        |
| ECEV.<br>EOR       | ELEVATOR<br>ENGINEER OF RECORD   | S.C.             | SOLID CORE                           |
|                    | EQUAL  |                  | SQUARE FEET OR FOOT                  |
|                    |  | S.S.             | STAINLESS STEEL<br>SCHEDULE          |
| E.S.               | EDGE SCREW(ING)  | SCHED.           | SCHEDULE                             |
| EXP.               | EXPANSION  | SECT.<br>SHT.    | SHEET                                |
| EXT.               | EXTERIOR   |                  |                                      |
| F.B.               | EXTERIOR FLAT BAR FLOOR DRAIN  | SPECS.           | SIMILAR OR SIMILAR TO SPECIFICATIONS |
| F.D.<br>F.O.       | 12001101111  | SQ.              | SQUARE                               |
| F.O.C.             | FACE OF CURB/CONCRETE  | STD.             | STANDARD                             |
| F.O.F.             | FACE OF FINISH   |                  | STRUCTURAL                           |
| F.O.M.             | FACE OF MASONRY<br>FACE OF STUDS   | SUSP.<br>SYM.    | SUSPENDED<br>SYMMETRICAL             |
| F.O.S.             | FACE OF STUDS  | T&G              | TONGUE & GROOVE                      |
| F.O.T.             |  |                  | TOP OF BEAM                          |
| FDN.               | FOUNDATION<br>FINISH   | T.O.C.<br>T.O.D. | TOP OF CURB/CONCRETE                 |
| FIN.<br>FL.        | FINISH<br>FLOOR(ING)   |                  | TOP OF DECK                          |
| FLASH.             | FLASHING '   | T.O.M.           | TOP OF MASONRY                       |
| F.S.               | FAR SIDE<br>FOOT OR FEET   | T.O.S.<br>T.O.W. | TOP OF SLAB<br>TOP OF WALL           |
| FT.                | FOOT OR FEET   | THK.             | THICKNESS                            |
| FTG.               | FOOTING  | 1                |                                      |

| SHEET LIST      |                          |  |  |  |
|-----------------|--------------------------|--|--|--|
| SHEET<br>NUMBER | SHEET NAME               |  |  |  |
| S0.0            | GENERAL STRUCTURAL NOTES |  |  |  |
| S0.1            | GENERAL STRUCTURAL NOTES |  |  |  |
| S1.0            | FOUNDATION PLAN          |  |  |  |
| S2.0            | ROOF FRAMING PLAN        |  |  |  |
| 23 U            | DETAILS                  |  |  |  |

FTW.

FURR.

GSN

H.C.A.

H.S.S.

HORIZ.

H.P.

FIRE TREATED WOOD

GENERAL STRUCTURAL NOTES

HEADED CONCRETE ANCHOR

HOLLOW STRUCTURAL STEEL

GAUGE OR GAGE

GALVANIZED

HIGH POINT

HORIZONTAL

HOUR

HEIGHT

FURRING

TRUSS JOIST I-JOIST

VERIFY IN FIELD

UNIFORM BUILDING CODE

UNLESS OTHERWISE NOTED

UNLESS NOTED OTHERWISE

TYPICAL

VERTICAL

WITHOUT

**WORK POINT** 

W.W.F. WELDED WIRE FABRIC

WITH

WOOD

WIDE

U.B.C.

U.O.N.

U.N.O.

VERT.

W/O

W.P.

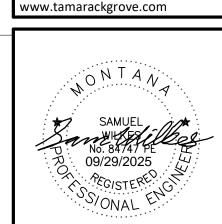
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900 W. 5th Avenue, Suite 403 Anchorage AK, 99501 907.272.3567

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| Revisions   |      |  |  |  |
|-------------|------|--|--|--|
| Description | Date |  |  |  |
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| Drawn by<br>CID | Date 09/29/2025 |
|-----------------|-----------------|
| Checked         | Job No.         |
| BJS             | 25-27029        |

Sheet Contents GENERAL STRUCTURAL NOTES

### A. GENERAL REQUIREMENT

- 1. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO REQUIREMENTS SET FORTH IN ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", AND ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE".
- CAST-IN-PLACE AND PRECAST CONSTRUCTION TOLERANCES FOR MEMBER SIZE AND LOCATION SHALL BE IN CONFORMANCE WITH ACI 117 AND ACI ITG-7, RESPECTIVELY.
- NORMAL WEIGHT CONCRETE SHALL BE IN CONFORMANCE WITH ASTM C33 WITH A NOMINAL MAXIMUM AGGREGATE SIZE OF
- LIGHTWEIGHT CONCRETE SHALL BE IN CONFORMANCE WITH ASTM C330 AND THE RESULTS OF ASTM C330 SHALL BE SUBMITTED TO E.O.R. FOR REVIEW AND APPROVAL PRIOR TO PLACEMENT. THE VOLUMETRIC FRACTIONS OF THE AGGREGATE SHALL ALSO BE SUBMITTED TO E.O.R. FOR REVIEW AND APPROVAL PRIOR TO PLACEMENT.
- PORTLAND CEMENT SHALL BE TYPE I/II IN CONFORMANCE WITH ASTM C150.
- OTHER CEMENTITIOUS MATERIALS SHALL CONFORM TO THE FOLLOWING: a. BLENDED HYDRAULIC CEMENTS:
- EXPANSIVE HYDRAULIC CEMENT: = ASTM C845 HYDRAULIC CEMENT: = ASTM C1157
- FLY ASH AND NATURAL POZZOLAN: = ASTM C618 e. SLAG CEMENT:
- f. SILICA FUME:
- 7. MIXING WATER SHALL CONFORM TO ASTM C1602. ADMIXTURES MAY BE USED TO INCREASE THE WORKABILITY OF THE CONCRETE UPON WRITTEN APPROVAL OF THE CONCRETE MANUFACTURER OR THE PROJECT TESTING LABORATORY. TESTING ON CONCRETE SHALL BE DONE PRIOR TO THE ADDITION OF ADMIXTURES.

= ASTM C1240

- ADMIXTURES SHALL CONFORM TO THE FOLLOWING:
  - WATER REDUCTION AND SETTING TIME MODIFICATION: = ASTM C494 PRODUCING FLOWING CONCRETE
- AIR ENTRAINMENT: = ASTM C260
- INHIBITING CHLORIDE-INDUCED CORROSION: = ASTM C1528 10. CONCRETE MIXTURE PROPORTIONS SHALL CONFORM WITH ACI 301 AND ESTABLISHED SO CONCRETE CAN BE PLACED READILY
- WITHOUT SEGREGATION INTO FORMS AND AROUND REINFORCEMENT.
- ALL CONCRETE MIXING AND TRANSPORTATION OF CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF ATM C94 AND ASTM
- 12. STAIN AND TEXTURE OF EXPOSED CONCRETE SURFACES PER OWNER'S DIRECTION, IF APPLICABLE.
- 13. THE SLUMP OF THE CONCRETE SHALL BE BETWEEN:
- a. BEAMS/COLUMNS: 3" ± 1"
- b. WALLS/FOUNDATIONS: 5" ± 1"
- c. SLABS-ON-GRADE: 4" ± 1" 14. THE CONCRETE SHALL MEET THE MOST STRINGENT REQUIREMENTS FROM THE FOLLOWING EXPOSURE CLASSES:
- ALL FOOTINGS, FOUNDATIONS, AND STEM WALLS: = F1, S0, W0, C0
- INTERIOR SLABS-ON-GRADE: = F0, S0, W0, C0
- EXTERIOR SLABS-ON-GRADE: = F2, S0, W0, C0
- 18. CONCRETE EXPOSURE CLASSES AND REQUIREMENTS:

| EXPOSURE CATEGORY: F |                 |                                   |                       |   |              |               |                                       |   |
|----------------------|-----------------|-----------------------------------|-----------------------|---|--------------|---------------|---------------------------------------|---|
| EXPOSURE<br>CLASS    | MAXIMUM<br>w/cm | MINIMUM<br>f <sub>C</sub> ' (psi) | AIR<br>CONTENT<br>(%) | DINTENT LIMITS ON MAXIMUM PERCENT OF TOTAL CEMENTITIOU  MATERIALS BY MASS |              |               | AL CEMENTITIOUS                       |   |
| F0                   | N/A             | 2500                              | N/A                   | N/A   |              |               |                                       |   |
| F1                   | 0.55            | 3500                              | 5                     | N/A   |              |               |                                       |   |
| F2                   | 0.45            | 4500                              | 6                     |   |              |               | N/A                                   |   |
| F3                   | 0.40            | 5000                              | 6                     | ASTM<br>C618  | ASTM<br>C989 | ASTM<br>C1240 | TOTAL OF<br>ASTM C618 &<br>ASTM C1240 | TOTAL OF ASTM<br>C618 & ASTM C989<br>& ASTM C1240 |
|                      |                 |                                   |                       | 25%   | 50%          | 10%           | 35%                                   | 50%   |

| EXPOSURE CATEGORY: S |                 |                                   |                                |   |                                 |                                  |  |
|----------------------|-----------------|-----------------------------------|--------------------------------|---|---------------------------------|----------------------------------|--|
|                      |                 |                                   |                                | CEMENTITIOUS  | MATERIALS                       |                                  |  |
| EXPOSURE<br>CLASS    | MAXIMUM<br>w/cm | MINIMUM<br>f <sub>c</sub> ' (psi) | ASTM C150                      | ASTM C595   | ASTM C1157                      | CALCIUM<br>CHLORIDE<br>ADMIXTURE |  |
| S0                   | N/A             | 2500                              | N/A                            | N/A   | N/A                             | N/A                              |  |
| S1                   | 0.50*           | 4000                              | II                             | IP(MS), IS(MS), OR<br>IT(MS)                              | MS                              | N/A                              |  |
| S2                   | 0.45            | 4500                              | V                              | IP(HS), IS(HS), OR<br>IT(HS)                              | HS                              | NOT<br>PERMITTED                 |  |
| \$3                  | 0.45            | 4500                              | V + POZZOLAN OR<br>SLAG CEMENT | IP(HS), IS(HS), OR<br>IT(HS) + POZZOLAN<br>OR SLAG CEMENT | HS + POZZOLAN<br>OR SLAG CEMENT | NOT<br>PERMITTED                 |  |

| EXPOSURE CLASS | MAXIMUM w/cm | MINIMUM f <sub>c</sub> ' (psi |
|----------------|--------------|-------------------------------|
| W0             | N/A          | 2500                          |
| W1             | 0.50         | 4000                          |

| EXPOSURE CATEGORY: C |                 |                                   |   |  |
|----------------------|-----------------|-----------------------------------|---|--|
| EXPOSURE<br>CLASS    | MAXIMUM<br>w/cm | MINIMUM<br>f <sub>C</sub> ' (psi) | MAXIMUM WATER-SOLUBLE CHLORIDE ION (CI-1) CONTENT IN NONPRESTRESSED CONCRETE, PERCENT BY WEIGHT OF CEMENT |  |
| CO                   | N/A             | 2500                              | 1.00  |  |
| C1                   | N/A             | 2500                              | 0.30  |  |
| C2                   | 0.40            | 5000                              | 0.15  |  |

\*FOR SEAWATER EXPOSURE THE MAXIMUM w/cm RATIO SHALL BE 0.40.

### 19. TEMPERATURE REQUIREMENTS OF THE CONCRETE SHALL CONFORM TO THE FOLLOWING:

- a. CONCRETE SHALL BE MAINTAINED AT A TEMPERATURE MINIMUM OF 50°F AND IN A MOIST CONDITION FOR AT LEAST THE FIRST 7 DAYS AFTER PLACEMENT.
- ADEQUATE EQUIPMENT SHALL BE PROVIDED FOR HEATING CONCRETE MATERIALS AND PROTECTING CONCRETE DURING FREEZING OR NEAR-FREEZING WEATHER.
- FROZEN MATERIALS OR MATERIALS CONTAINING ICE SHALL NOT BE USED.
- FORMS, FILLERS, AND GROUND WITH WHICH CONCRETE IS TO COME IN CONTACT SHALL BE FREE FROM FROST AND ICE.
- CONCRETE SHALL NOT EXCEED A TEMPERATURE MAXIMUM OF 95°F AT THE TIME OF PLACEMENT.
- HANDLING, PLACING, PROTECTION, AND CURING PROCEDURES SHALL LIMIT CONCRETE TEMPERATURES OR WATER
- EVAPORATION THAT COULD REDUCE STRENGTH SERVICEABILITY, AND DURABILITY OF THE MEMBER OR STRUCTURE. HOT WEATHER AND COLD WEATHER CONCRETE CONSTRUCTION SHALL BE DONE IN COMPLIANCE WITH ACI 305.1 AND ACI 306.1, RESPECTIVELY.
- h. CONCRETE MATERIALS AND PRODUCTION METHODS SHALL BE SELECTED SO THAT THE CONCRETE TEMPERATURE AT
- DELIVERY COMPLIES WITHIN THE SPECIFIED TEMPERATURE LIMITS.
- i. PROVISIONS LISTED DO NOT PROTECT CONCRETE AGAINST CHEMICALLY AGGRESSIVE SOLUTIONS, CONTACT E.O.R. IF SUCH CONDITIONS APPLY.

### PLACEMENT REQUIREMENTS

- STANDING WATER SHALL BE REMOVED FROM THE PLACE OF DEPOSIT BEFORE CONCRETE IS PLACED UNLESS A
- CONCRETE MASONRY UNITS THAT WILL BE IN CONTACT WITH CONCRETE SHALL BE PRE-WETTED PRIOR TO
- 3. CONCRETE SHALL NOT BE CONVEYED WITH PIPES, TREMIES, OR CHUTES MADE OF ALUMINUM OR ALUMINUM
- CONCRETE SHALL BE PLACED: AT A RATE SO CONCRETE AT ALL TIMES HAS SUFFICIENT WORKABILITY TO BE CONSOLIDATED
- WITHOUT SEGREGATION OR LOSS OF MATERIALS.
- WITHOUT INTERRUPTIONS TO MAINTAIN WORKABILITY BETWEEN SUCCESSIVE PLACEMENTS TO PREVENT AN UNINTENTIONAL COLD JOINT.
- AS NEAR TO ITS FINAL LOCATION AS PRACTICABLE TO AVOID SEGREGATION DUE TO REHANDLING OR
- CONCRETE THAT HAS BEEN CONTAMINATED OR HAS LOST ITS INITIAL WORKABILITY TO THE EXTENT THAT IT CAN NO LONGER BE CONSOLIDATED APPROPRIATELY SHALL NOT BE USED.
- 6. RETEMPERING CONCRETE IN ACCORDANCE WITH ASTM C94 SHALL BE PERMITTED AS LONG AS THE LIMITS ON
- MAXIMUM MIXING TIME AND w/cm ARE NOT VIOLATED.
- AFTER STARTING, CONCRETING SHALL BE A CONTINUOUS OPERATION UNTIL THE COMPLETION OF A PANEL OR SECTION, AS DEFINED BY ITS BOUNDARIES OR PREDETERMINED JOINTS.
- CONCRETE SHALL BE CONSOLIDATED APPROPRIATELY DURING PLACEMENT AND SHALL BE WORKED AROUND
- REINFORCEMENT AND EMBEDMENTS AND INTO CORNERS OF FORMS. TOP SURFACES OF VERTICALLY FORMED LIFTS SHALL BE GENERALLY LEVEL
- JOINT LOCATIONS OR JOINT DETAILS NOT SHOWN OR THAT DIFFER FROM THOSE INDICATED IN THE
- CONSTRUCTION DOCUMENTS SHALL BE SUBMITTED FOR REVIEW BY THE E.O.R.
- CONSTRUCTION JOINTS SHALL BE CLEANED AND LAITANCE REMOVED BEFORE NEW CONCRETE IS PLACED. THE SURFACE OF CONCRETE CONSTRUCTION JOINTS SHALL BE INTENTIONALLY ROUGHENED.
- IMMEDIATELY BEFORE THE NEW CONCRETE IS PLACED, CONSTRUCTION JOINTS SHALL BE PRE-WETTED AND
- 14. CONCRETE BEAMS, GIRDERS, OR SLABS SUPPORTED BY COLUMNS OR WALLS SHALL NOT BE CAST UNTIL CONCRETE IN THE VERTICAL SUPPORT MEMBERS IS NO LONGER WORKABLE AND SOFT.
- CONCRETE BEAMS, GIRDERS, HAUNCHES, DROP PANELS, SHEAR CAPS, AND CAPITALS SHALL BE PLACED
- MONOLITHICALLY AS PART OF A SLAB SYSTEM, U.N.O. SAW CUTTING IN SLABS-ON-GRADE IDENTIFIED IN THE CONSTRUCTION DOCUMENTS AS STRUCTURAL
- DIAPHRAGMS OR PART OF THE SEISMIC-FORCE-RESISTING SYSTEM SHALL NOT BE PERMITTED U.N.O.
- ALUMINUM EMBEDMENTS SHALL BE COATED OR COVERED TO PREVENT ALUMINUM-CONCRETE REACTION AND ELECTROLYTIC ACTION BETWEEN ALUMINUM AND STEEL.
- 18. IN SOLID SLABS, PIPING, EXCEPT FOR RADIANT HEATING FOR SNOW MELTING, SHALL BE PLACED IN THE CENTER OF THE SLAB ABOVE REINFORCEMENT OR BETWEEN TOP AND BOTTOM REINFORCEMENT.
- CONDUIT AND PIPING SHALL BE FABRICATED AND INSTALLED SO THAT CUTTING, BENDING, OR DISPLACEMENT OF REINFORCEMENT FROM ITS SPECIFIED LOCATION IS NOT REQUIRED

### FORMWORK SHALL BE DESIGNED, FABRICATED, INSTALLED, AND REMOVED BY THE CONTRACTOR.

- DESIGN OF FORMWORK SHALL TAKE INTO CONSIDERATION:
  - METHOD OF CONCRETE PLACEMENT.
  - RATE OF CONCRETE PLACEMENT.
  - CONSTRUCTION LOADS, INCLUDING VERTICAL, HORIZONTAL, AND IMPACT
- AVOIDANCE OF DAMAGE TO PREVIOUSLY CONSTRUCTED MEMBERS. FORMWORK FABRICATION AND INSTALLATION SHALL RESULT IN A FINAL STRUCTURE THAT CONFORMS TO
- SHAPES, LINES, AND DIMENSIONS OF THE MEMBERS AS REQUIRED BY THE CONSTRUCTION DOCUMENTS.
- FORMWORK SHALL BE SUFFICIENTLY TIGHT TO INHIBIT LEAKAGE OF PASTE OR MORTAR. FORMWORK SHALL BE BRACED OR TIED TOGETHER TO MAINTAIN POSITION AND SHAPE.
- PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR SHALL DEVELOP A PROCEDURE AND SCHEDULE FOR REMOVAL OF FORMWORK AND INSTALLATION OF RESHORES AS NEEDED TO ACCOMMODATE ANY LOADS TRANSFERRED TO THE STRUCTURE DURING THIS PROCESS.
- STRUCTURAL ANALYSIS AND CONCRETE STRENGTH REQUIREMENTS USED IN PLANNING AND IMPLEMENTING THE FORMWORK REMOVAL AND RESHORE INSTALLATION SHALL BE GIVEN BY THE CONTRACTOR TO THE E.O.R. AND TO THE BUILDING OFFICIAL, WHEN REQUESTED OR REQUIRED
- NO CONSTRUCTION LOADS SHALL BE PLACED ON, NOR ANY FORMWORK REMOVED FROM, ANY PART OF THE STRUCTURE UNDER CONSTRUCTION EXCEPT WHEN THAT PORTION OF THE STRUCTURE IN COMBINATION WITH REMAINING FORMWORK HAS ACHIEVED DESIGN STRENGTH TO SUPPORT ITS WEIGHT AND LOADS PLACED ON IT SAFELY AND WITHOUT IMPAIRING SERVICEABILITY.
- NO CONSTRUCTION LOADS EXCEEDING THE COMBINATION OF SUPERIMPOSED DEAD LOAD PLUS LIVE LOAD INCLUDING REDUCTION SHALL BE PLACED ON ANY UNSHORED PORTION OF THE STRUCTURE UNDER CONSTRUCTION, UNLESS ANALYSIS INDICATES ADEQUATE STRENGTH TO SUPPORT SUCH ADDITIONAL LOADS AND WITHOUT IMPAIRING SERVICEABILITY. SUBMITTAL REQUIREMENTS

### SUBMIT PRODUCT DOCUMENTATION OF CONCRETE MIXTURE CHARACTERISTICS, INCLUDING STRENGTH, SLUMP, AIR CONTENT, ADMIXTURES, WATER CONTENT, CEMENTITIOUS MATERIALS, AND LOCATION OF CONCRETE PLACEMENT RELATIVE TO SPECIFIC MIX.

### 2 <u>LUMBER AND ENGINEERED WOOD</u>

### A. GENERAL REQUIREMENTS

- ALL WOOD CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE "NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION" (NDS), THE "AMERICAN FOREST AND PAPER ASSOCIATION REFERENCE
- STANDARDS" (AF&PA) AND THE GOVERNING BUILDING CODE. ALL METAL HANGERS AND CONNECTIONS SHALL BE MANUFACTURED BY "SIMPSON STRONG-TIE COMPANY, INC" AND
- INSTALLED PER MANUFACTURER'S REQUIREMENTS U.N.O.
- ALL ROOF OPENINGS GREATER THAN 12" SHALL BE FRAMED IN WITH DECK EDGE SUPPORT FRAMING. ALL BOLTS FOR BOLTED CONNECTIONS SHALL CONFORM TO ASTM A307, U.N.O. BOLTS SHALL BE INSTALLED IN HOLES
- BORED WITH A BIT 1/16" LARGER THAN THE DIAMETER FOR THE BOLT. PROVIDE STANDARD CUT WASHERS AT ALL
- BOLT HEADS AND NUTS BEARING ON WOOD. DO NOT SPLICE STRUCTURAL MEMBERS BETWEEN SUPPORTS U.N.O. ALL CONNECTORS AND FASTENERS IN CONTACT WITH CHEMICALLY TREATED LUMBER SUCH AS FIRE TREATED, SHALL
  - BE GALVANIZED OR STAINLESS STEEL AS FOLLOWS:
    - HOT DIPPED GALVANIZED FASTENERS AND ANCHORS: ASTM A153 ASTM A123 HOT DIPPED GALVANIZED CONNECTORS:
    - GALVANIZED CONNECTORS: ASTM A653, GRADE G185
- d. STAINLESS STEEL TYPE 304 OR 316 7. ALL PNEUMATIC NAILING SHALL BE PLAIN SHANK, COATED OR GALVANIZED AND HAVE THE FOLLOWING DIMENSIONS:
  - 8D = 0.131'' DIA. x 2-1/2'' MIN. LENGTH
  - 10D = 0.131" DIA. x 3" MIN. LENGTH
  - 16D = 0.131" DIA. x 3-1/2" MIN. LENGTH
- ALL HAND NAILING SHALL BE SINKERS, COATED AND HAVE THE FOLLOWING DIMENSIONS:
  - a. 8D = 0.131'' DIA. x 2-3/8'' MIN. LENGTH b. 10D = 0.131" DIA. x 3" MIN. LENGTH
  - c.  $16D = 0.131'' DIA. \times 3-1/2'' MIN. LENGTH$

- ALL STRUCTURAL LUMBER SHALL BE **DOUGLAS FIR LARCH (DF/L) #2** OR BETTER, U.N.O. ALL INTERIOR NON-LOAD BEARING WALLS CAN BE **DF/L** STUD GRADE, U.N.O. ALL STRUCTURAL LUMBER SHALL BE MARKED AND GRADED BY AND APPROVED GRADING INSPECTION AGENCY.
- MAXIMUM LUMBER MOISTURE CONTENT SHALL BE 15%.
- ALL WOOD EXPOSED TO EARTH, WEATHER, OR MOISTURE THAT WOULD BE SUBJECT TO DECAY OR INSTALLED WITHIN 1" OF CONCRETE OR MASONRY, SHALL BE PRESSURE TREATED OR HAVE SUFFICIENT WEATHER RESISTANT PROPERTIES.
- ALL EXTERIOR WALLS TO BE 2x6 STUD FRAMING AT 16" O.C. AND INTERIOR NON-LOAD BEARING STUD WALLS TO BE 2X4 @ 24" O.C. MINIMUM U.N.O.

### ENGINEERED WOOD REQUIREMENTS

- ALL ENGINEERED "I" JOISTS SHALL BE DESIGNED, CERTIFIED, ERECTED, INSTALLED, AND BRACED IN STRICT ACCORDANCE WITH ADA AND MANUFACTURER SPECIFICATIONS AND DETAILS. USE SPECIFIED PRODUCTS OR AN EQUIVALENT APPROVED MANUFACTURER.
- ALL LAMINATED VENEER LUMBER (LVL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:
  - GRADE = 2.0EFB = 2,600 PSI b. = 285 PSI
- = 2,000 KSI
- ALL LAMINATED STRAND LUMBER (LSL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: GRADE = 1.55E FB = 2,325 PSI = 310 PSI
- = 1,550 KSI
- ALL PARALLEL STRAND LUMBER (PS ) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: GRADE = 1.8E FOR COLUMNS, = 2.0E FOR BEAMS = 2,400 PSI FOR COLUMNS, = 2,900 PSI FOR BEAMS FB = 190 PSI FOR COLUMNS, = 290 PSI FOR BEAMS
- = 1,800 KSI FOR COLUMNS, = 2,000 KSI FOR BEAMS ALL GLUE-LAMINATED OR GLULAM BEAMS (GLB) SHALL BE DOUGLAS FIR USING WATERPROOF ADHESIVES AND BE FABRICATED IN ACCORDANCE WITH ANSI AND AITC STANDARDS, AND HAVE THE FOLLOWING MINIMUM PROPERTIES:
  - a. COMBINATION = 24-V4, FOR SINGLE SPAN OR 24F-V8 FOR CANTILEVERED AND/OR MULTI-SPAN. GRADE = ARCHITECTURAL APPEARANCE = 2,400 PSI
- = 265 PSI = 1,800 KSI = PER CONSTRUCTION DOCUMENTS
- ALL GLUE-LAMINATED OR GLULAM COLUMNS (GLB) SHALL BE DOUGLAS FIR USING WATERPROOF ADHESIVES AND BE FABRICATED IN ACCORDANCE WITH ANSI AND AITC STANDARDS, AND HAVE THE FOLLOWING MINIMUM PROPERTIES: COMBINATION GRADE = COLUMN FBY, FBX = 2,100 PSI, 2,000 PSI FVY, FVX = 230 PSI, 265 PSI
- FC (PERPENDICULAR) = 650 PSI = 1,900 KSI
- ANY HOLES AND/OR NOTCHES IN BEAMS SHALL BE IN ACCORANCE WITH MANUFACTURER SPECIFICATIONS. ALL GLULAM BEAMS TO BE INSTALLED WITH THE CORRECT ORIENTATION OF THE BEAM CROWN TO ENSURE PROPER

### LOAD DISTRIBUTION.

- **EXECUTION REQUIREMENTS** ALL BEARING ELEVATIONS AND SLOPES FOR BEAMS, GIRDERS AND COLUMN HEIGHTS SHALL BE COORDINATED AND VERIFIED BY THE CONTRACTOR.
- THE CONTRACTOR TO INSTALL BEAMS AND JOISTS TRUE, PLUMB AND SECURELY AT EACH END U.N.O. ALL MEMBERS SHALL BE HANDLED DURING MANUFACTURING, DELIVERY AND AT THE JOBSITE SO AS NOT TO BE SUBJECTED TO ANY DAMAGE. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE E.O.R. IMMEDIATELY OF ANY
- DAMAGE OBSERVED. WHERE ADHESIVES ARE USED, CONTRACTOR TO PROVIDE WET USE ADHESIVES.
- ALL WINDOW SIZES IN ETERIOR WOOD WALLS ARE NOMINAL. CONTRACTOR TO VERIFY ACTUAL OPENINGS WITH WINDOW MANUFACTURERS.
- ALL HOLDOWN NUTS SHALL BE RE-TIGHTENED JUST PRIOR TO COVERING THE WALL FRAMING. THE CONTRACTOR TO PROVIDE SIMPSON ST2215 STEEL STRAPS AT PIPES IN STUD WALLS AS REQUIRED BY THE
- THE CONTRACTOR TO PROVIDE SOLID BLOCKING AT 24" O.C. AT JOISTS PARALLEL TO ALL BEARING WALLS. AT ALL MULTIPLE STUD (STUD PACK) AND POST LOCATIONS REQUIRED TO SUPPORT VERTICAL LOADS, A CONTINUOUS
- LOAD PATH SHALL BE PROVIDED TO SUPPORT THOSE LOADS THROUGH THE STRUCTURE, CONTRACTOR TO PROVIDE SOLID BLOCKING TO ENSURE FULL AREA BEARING TO THE FOUNDATION. U.N.O. OVER FRAMING SHALL BE DONE SUCH THAT VERTICAL LOADS ARE TRANSFERRED TO MAIN STRUCTURE BELOW BY
- DIRECT BEARING AT SPACING NOT TO EXCEED 24" O.C. 11. ALL LUMBER SHALL BE PROTECTED FROM EXPOSURE TO WEATHER PRIOR TO AND DURING CONSTRUCTION.
- SHOP DRAWING AND DIFFERED SUBMITTAL REQUIREMENTS
- I-JOISTS SHALL BE DESIGNED FOR MAXIMUM TOTAL LOADS PER THE CONSTRUCTION DOCUMENTS.
- SUBMIT SHOP DRAWINGS SHOWING I-JOIST TYPE, ORIENTATION, SPACING, SPAN; PITCH, SPAN, FOR EACH TYPE OF I-JOIST; AND CONNECTION AND BLOCKING DETAILS. LAG SCREWS SHALL BE 'GALVANIZED" UNLESS OTHERWISE NOTED. DRILL TWO LEAD HOLES FOR THE THREADS BASED
- ON THE A SPECIFIC GRAVITY (SG) NOTED BELOW:
- 65% TO 85% OF THE SHANK DIAMETER IN WOOD FOR SG GREATER THAN 0.60.
- 60% TO 75% FOR AN SG BETWEEN 0.50 AND 0.60. 40% TO 70% FOR AN SG EQUAL TO OR LESS THAN 0.50 TO ENSURE A "TIGHT GRIP" INTO THE TIMBER RECEIVING THE THREADS.
- THE LEAD HOLES FOR THE SMOOTH SHANK IS EQUAL TO THE DIAMETER OF THE SHANK.

### 3 PLYWOOD SHEATHING

- SHEATHING SHALL BE INSTALLED IN ACCORDANCE WITH THE APA RECOMMENDATIONS AND THE GOVERNING CODE.
- ORIENTED STRAND BOARD (OSB) OF THE SAME STRENGTH EQUIVALENCE CAN BE SUBSTITUTED FOR PLYWOOD. WALL SHEATHING MAY BE INSTALLED VERTICALLY OR HORIZONTALLY. ROOF/FLOOR SHEATHING TO BE INSTALLED HORIZONTALLY. ALL SHEATHING SHALL BE PLACED PERPENDICULAR TO THE FRAMING WITH STAGGERED END JOINTS AT
  - 4. NO SHEATHING PANEL LESS THAN 24" WIDE IN ANY DIRECTION SHALL BE USED.
  - ALL SHEATHING SHALL BE A MINIMUM OF 7/16" THICK FOR ROOF/WALL AND 3/4" THICK FOR FLOOR, U.N.O.
  - PROVIDE 1/8" SPACE AT ALL SHEATHING PANEL EDGES FOR EXPANSION/SHRINKAGE. INTERMEDIATE FRAMING, PANEL EDGES AND BLOCKING TO BE 2X NOMINAL MEMBERS MINIMUM, U.N.O.
- ALL SHEATHING SHALL HAVE AN EXPOSURE DURABILITY OF EXPOSURE 1, UNLESS PANELS ARE SUBJECT TO PERMANENT EXPOSURE TO WEATHER OR MOISTURE, THEN PANELS SHALL HAVE AN EXPOSURE DURABILITY OF EXTERIOR. ALL SHEATHING SHALL HAVE A MINIMUM SPAN RATING OF (24/16) U.N.O. AND NO LESS THAN THE TYPICAL FRAMING
- 10. ALL SHEATHING SHALL BE PROTECTED FROM EXPOSURE TO WEATHER PRIOR TO AND DURING CONSTRUCTION TO AVOID DELAMINATION.

- REFERENCE CONSTRUCTION DOCUMENTS FOR ALL SHEAR WALL LOCATIONS, DIMENSIONS AND PLACEMENTS AND COORDINATE FRAMING PLAN LOCATIONS WITH FOUNDATION PLAN LOCATIONS FOR PROPER HOLDOWN INSTALLATIONS, WHERE APPLICABLE, TYP.
- SHEATHING SHALL HAVE THE FOLLOWING MINIMUM FASTENER SIZE, SPACING AND PATTERN: a. WOOD FRAMED WALLS – 8d NAILS, 6" O.C. AT PANEL EDGES AND 12" O.C. @ INTERMEDIATE SUPPORTS.
- b. WOOD FRAMED ROOF/FLOOR DIAPHRAGMS –8d NAILS, 6" O.C. AT PANEL EDGES AND 12" O.C. @
- INTERMEDIATE SUPPORTS. U.N.O.
- LIGHT GAUGE FRAMED WALLS-#8 SMS SCREWS, 6" O.C. AT PANEL EDGES AND 12" O.C. @ INTERMEDIATE SUPPORTS. U.N.O. 3. THE MINIMUM EDGE DISTANCE FOR NAILS IN THE RECEIVING MEMBERS AND SHEATHING SHALL BE 3/8" FOR 2"
- NOMINAL RECEIVING MEMBERS AND 1/2" FOR 3" OR LARGER NOMINAL RECEIVING MEMBERS. 4. U.N.O., FRAMING CLIPS SHALL BE EITHER A35 OR LTP4, OR APPROVED EQUIVALENT. USE 1-1/2" LONG NAILS TO ATTACH FRAMING CLIPS DIRECTLY TO FRAMING OR 2-1/2" NAILS WHEN CLIPS ARE INSTALLED OVER SHEATHING.
- STAGGER ALL EDGE NAILS AT PANEL JOINTS WHERE SHEATHING IS APPLIED TO BOTH FACES OF A WALL. ALL FLOOR SHEATHING SHALL BE BONDED w/INTERMEDIATE OR EXTERIOR GLUE, IN ADDITION TO MECHANICAL
- DRIVE NAILS FLUSH WITH PANEL SURFACE. DO NOT FRACTURE SURFACE BY OVERDRIVING NAILS. SUPPLEMENT ANY OVERDRIVEN NAILS BY ADDING AN EQUAL NUMBER FOR PROPERLY DRIVEN NAILS IN NEW HOLES. ANY SHINERS OR NAILS THAT MISS FRAMING MEMBERS WHEN ATTACHING SHEATHING CAN REMAIN. HOWEVER, ADDITIONAL NAILS ARE

### 4 PRE-ENGINEERED METAL PLATED TRUSSES

### A. <u>GENERAL REQUIREMENTS</u>

ALL METAL PLATES CONNECTED TO WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE NATIONAL DESIGN STANDARD FOR WOOD CONSTRUCTION, THE TRUSS PLATE INSTITUTE, AND THE WOOD TRUSS COUNCIL

REQUIRED, WHICH DIRECTLY ATTACHED THE SHEATHING TO THE FRAMING.

SHALL BE GALVANIZED OR STAINLESS STEEL AS FOLLOWS: HOT DIPPED GALVANIZED FASTENERS AND ANCHORS: ASTM A153 HOT DIPPED GALVANIZED CONNECTORS: ASTM A123

ALL CONNECTORS AND FASTENERS IN CONTACT WITH CHEMICALLY TREATED LUMBER SUCH AS FIRE TREATED,

- GALVANIZED CONNECTORS: ASTM A653, GRADE G185 STAINLESS STEEL 3. TRUSS MANUFACTURER SHALL DESIGN TRUSSES TO BEAR ON LOAD-BEARING WALLS, HEADERS AND BEAMS ONLY SHOWN ON THE STRUCTURAL FRAMING PLANS. ANY DEVIATION IN BEARING LOCATIONS FROM THAT
- 4. TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR ALL TRUSS-TO-TRUSS AND TRUSS-TO-GIRDER CONNECTIONS.

SHOWN ON THE STRUCTURAL PLANS MUST BE CLOUDED AND NOTED IN THE SHOP DRAWINGS.

- TRUSS MANUFACTURER TO LIMIT FLOOR TRUSS DEFLECTION TO ¾" MAXIMUM AND ROOF TRUSS DEFLECTION TO 1" MAXIMUM. NOTIFY E.O.R. IF DEFLECTION CRITERIA CANNOT BE MET. ALL SEISMIC AND WIND AXIAL LOADING, WHERE NOTED, ARE UNFACTORED AND NEED TO BE APPLIED TO THE
- CORRECT LOAD COMBINATION BY THE TRUSS MANUFACTURER. TRUSS MANUFACTURER TO COORDINATE WITH THE DRAWINGS TO ENSURE SUSPENDED AND ROOF MOUNTED EQUIPMENT WEIGHTS, SCREEN WALL WEIGHTS, AND ANY MISCELLANEOUS WEIGHTS ARE ACCOUNTED FOR. TRUSSES IMPACTED BY MECHANICAL EQUIPMENT SHALL BE DESIGNED FOR 2/3 THE TOTAL SPECIFIED WEIGHT AT EACH TRUSS SUPPORTING THE EQUIPMENT. TRUSS GIRDERS IMPACTED BY MECHANICAL EQUIPMENT SHALL

BE DESIGNED FOR THE TOTAL SPECIFIED WEIGHT OF THE EQUIPMENT AND ASSUME THE EQUIPMENT IS

TRUSS MANUFACTURER TO COORDINATE WITH FIRE PROTECTION DRAWINGS (IF APPLICABLE) AND DESIGN ALL

SPRINKLER SUPPORTING TRUSSES FOR SPRINKLER WEIGHTS AND SWAY BRACING LOADS. IF THE LOADS ARE

- LOCATED ANYWHERE ALONG THE LENGTH OF THE GIRDER FOR WORST CASE DESIGN CONDITION. ALL TRUSSES SHALL BE DESIGNED FOR A SINGLE CONCENTRATED TRAVELING PROVISIONAL LOAD OF 300LBS ALONG THE TOP CHORD AND 100 POUNDS ALONG THE BOTTOM CHORD APPLIED BETWEEN PANEL POINTS.
- NOT CLEARLY SHOWN ON THE FIRE PROTECTION PLANS, USE THE FOLLOWING LOADS: a. 4" DIA. SPRINKLER MAIN = 18 PLF
- b. 6" DIA. SPRINKLER MAIN = 32 PLF c. 8" DIA. SPRINKLER MAIN = 50 PLF
- 10. IF PARAPETS ARE TO BE BUILT INTO TRUSSES. TRUSS MANUFACTURER TO NOTIFY E.O.R. IF BUILT-IN PARAPETS CANNOT BE CONTINUOUS. **EXECUTION REQUIREMENTS**
- INSTITUTIONS COMMENTARY AND RECOMMENDATIONS FOR HANDLING, INSTALLING, AND BRACING FOR THE CONTRACTOR SHALL VERIFY ACTUAL MECHANICAL EQUIPMENT AND OPENING LOCATIONS, DIMENSIONS,

ALL HANDLING AND INSTALLATION SHALL COMPLY WITH THE SPECIFICATION OF THE TRUSS PLATE

ARE VARIATIONS FROM THE DRAWINGS. ALL BEARING ELEVATIONS AND SLOPES FOR TRUSSES, GIRDERS AND COLUMN HEIGHTS SHALL BE COORDINATED AND VERIFIED BY THE CONTRACTOR.

AND WEIGHTS WITH THE MECHANICAL CONTRACTOR AND NOTIFY E.O.R. AND TRUSS MANUFACTURER IF THERE

THE CONTRACTOR TO INSTALL TRUSSES TRUE, PLUMB AND SECURELY WITH HURRICANE CLIPS AT EACH END

- U.N.O. ERECTION AND INSTALLATION SHALL BE IN ACCORDANCE WITH WRITTEN INSTRUCTIONS FROM THE MANUFACTURER. 5. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE TRUSS FABRICATOR IMMEDIATELY OF ANY TRUSS DAMAGE OBSERVED. EACH DAMAGED AREA MUST BE REPAIRED BY THE TRUSS MANUFACTURER AND THE
- PERFORMED. ALL TEMPORARY AND PERMANENT BRIDGING OF WOOD TRUSSES SHALL BE PROVIDED IN ACCORDANCE WITH "RECOMMENDED DESIGN AND SPECIFICATION OF TEMPORARY BRACING OF METAL PLATE CONNECTED WOOD TRUSSES" AND "BUILDING COMPONENT SAFETY INFORMATION: GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING AND BRACING OF METAL PLATE CONNECTED WOOD TRUSSES." TEMPORARY BRIDGING SHALL BE FURNISHED AS REQUIRED TO MAINTAIN TRUSS STABILITY, SPACING AND TO PREVENT

TRUSS REPAIR DRAWINGS MUST BE STAPLED TO THE TRUSS UNTIL FINAL FRAMING INSPECTION HAS BEEN

- BUCKLING DURING ERECTION. THE FOLLOWING MINIMUM PERMANENT BRIDGING SHALL BE PROVIDED: a. BOTTOM CHORD BRIDGING: CONTINUOUS HORIZONTAL 2X4 @ 8'-0" O.C. FOR ROOF TRUSSES. PROVIDE HORIZONTAL DIAGONAL BRIDGING AT 45° ANGLE BETWEEN BRIDGING LINES AT ENDS OF BUILDING AND 20'-0" INTERVALS THROUGHOUT.
  - WEB MEMBERS BRIDGING: CONTINUOUS HORIZONTAL BRIDGING AT 12'-0" O.C. FOR ROOF TRUSSES. PROVIDE VERTICAL DIAGONAL BRIDGING AT 45 DEGREE ANGLE AT ENDS OF BUILDING AND AT 20'-0" INTERVALS THROUGHOUT.

### SUBMITTAL REQUIREMENTS

- SUBMIT SHOP DRAWINGS AND CALCULATIONS SHOWING SPECIES, SIZES AND GRADES OF LUMBER TO BE USED; PITCH, SPAN, CAMBER, SUPPORT CONFIGURATION AND SPACING FOR EACH TYPE OF TRUSS; SUPPORT AND AXIAL REACTIONS; AND BEARING AND ANCHORAGE DETAILS.
- SUBMIT CALCULATIONS FOR TRUSS DESIGN THAT ARE STAMPED BY AN ENGINEER REGISTERED IN THE APPROPRIATE JURISDICTION OF THE PROJECT.



347 S. Ferguson Avenue, Suite 3 Bozeman MT, 59718 406.404.1588

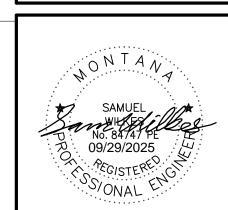
900 W. 5th Avenue. Suite 403 Anchorage AK, 99501 907.272.3567

www.architectsalaska.com

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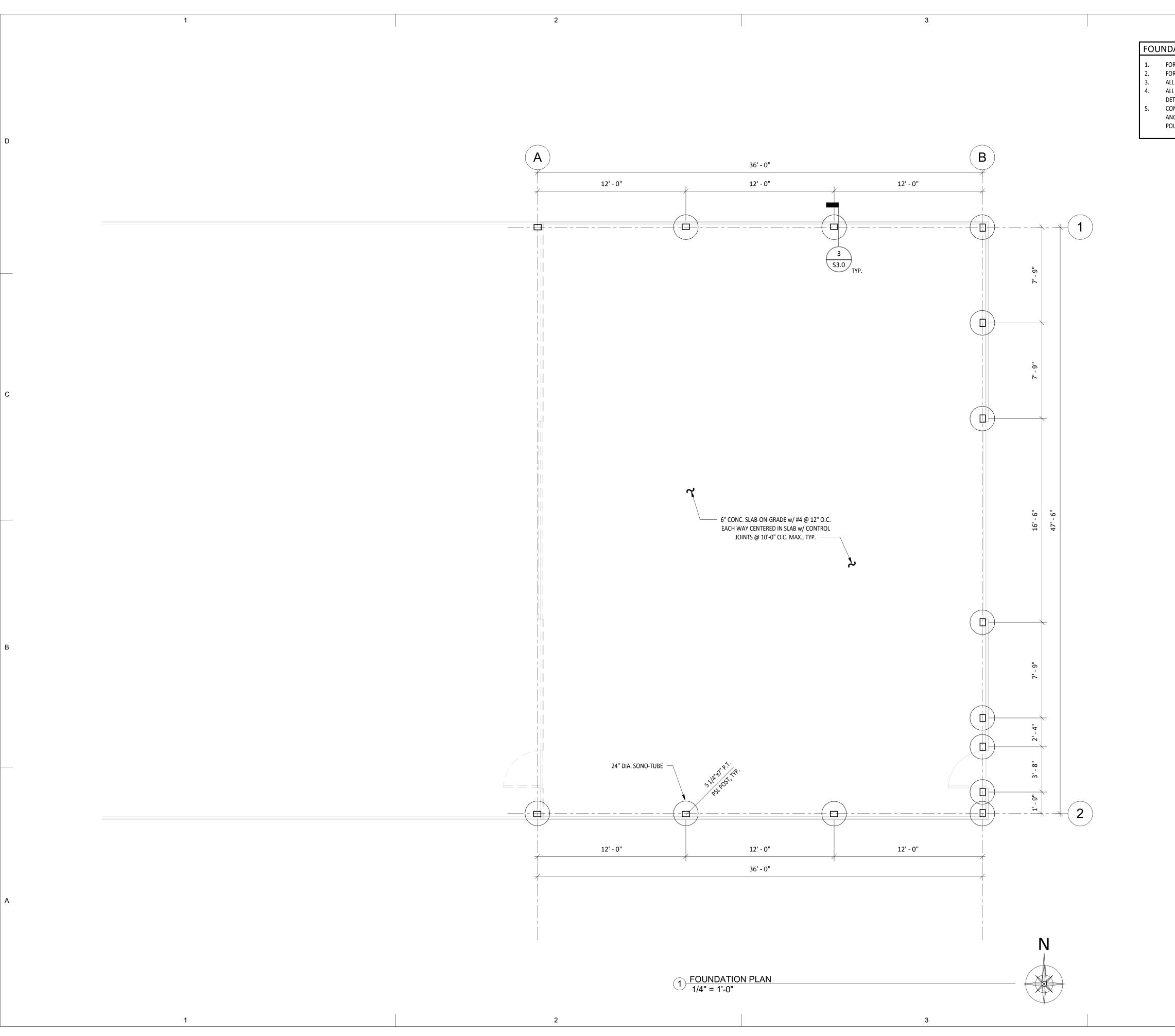
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GENERAL STRUCTURAL NOTES

09/29/2025

Drawn by

Author



### FOUNDATION PLAN NOTES:

- FOR ALL FOUNDATION DETAILS NOT CUT ON PLAN, RE: FOUNDATION DETAIL SHEETS.
- FOR ALL FRAMING DETAILS NOT CUT ON PLAN, RE: FRAMING DETAIL SHEETS.
- ALL COLUMNS TO BE CENTERED IN/ON STUD WALL FRAMING, U.N.O.
- ALL STRUCTURAL COLUMN CALL OUTS DENOTE THE LEVEL THAT THEY BEAR OR START, COORDINATE WITH
- CONCRETE FOUNDATION CONTRACTOR IS REQUIRED TO PROPERLY LOCATE ALL HOLDOWNS, STRAPS AND ANCHOR BOLT LOCATIONS w/ STRUCTURAL & ARCHITECTURAL PLANS & DIMENSIONS PRIOR TO CONCRETE



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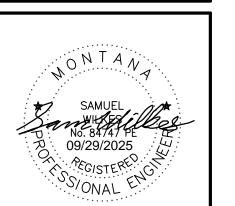
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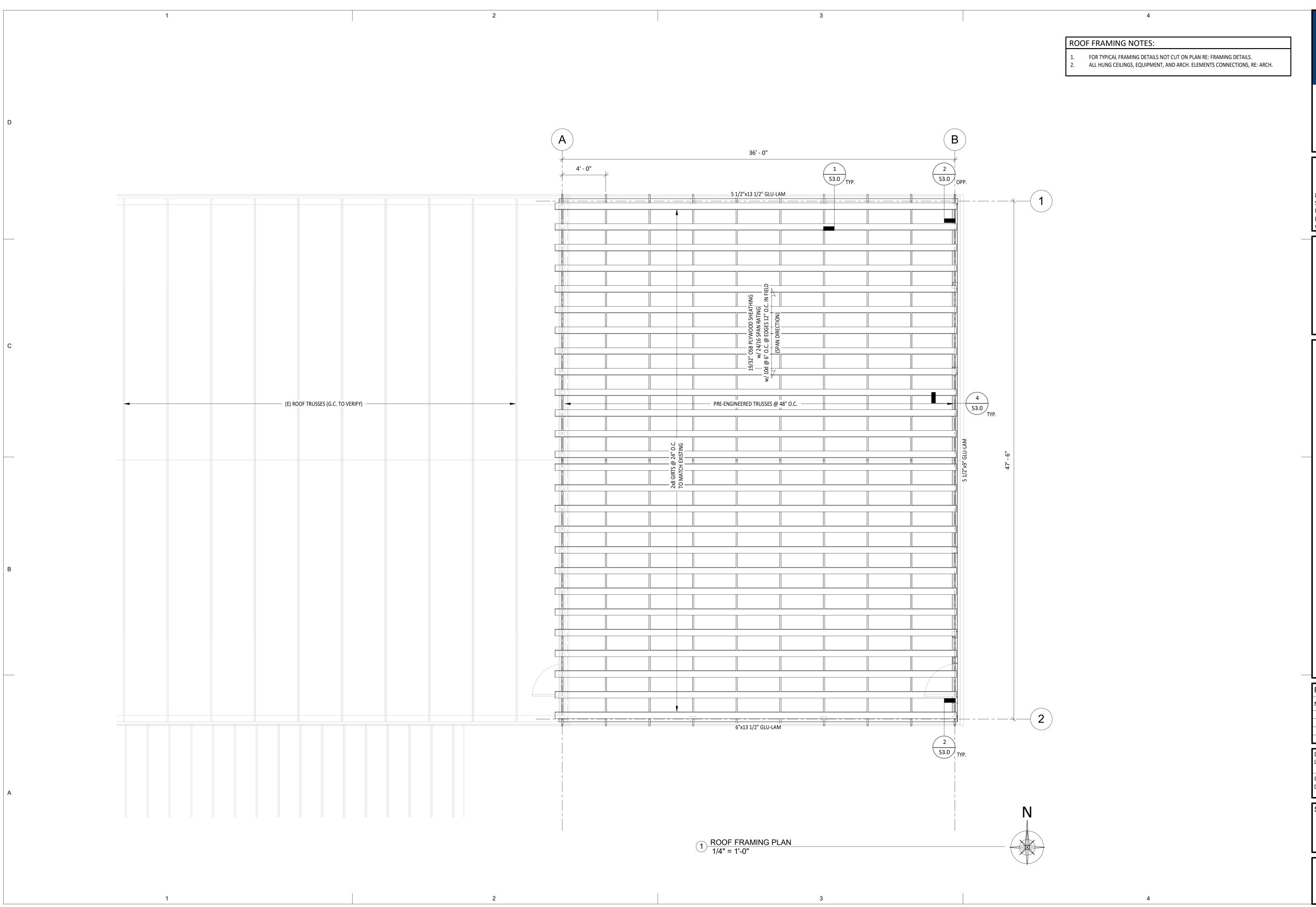
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Sheet Contents FOUNDATION PLAN

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**S1.0** 





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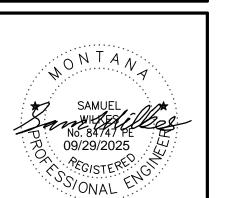
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## MONTANA STATE UNIVERSITY OST FARM SEED STORAGE EXPANSION

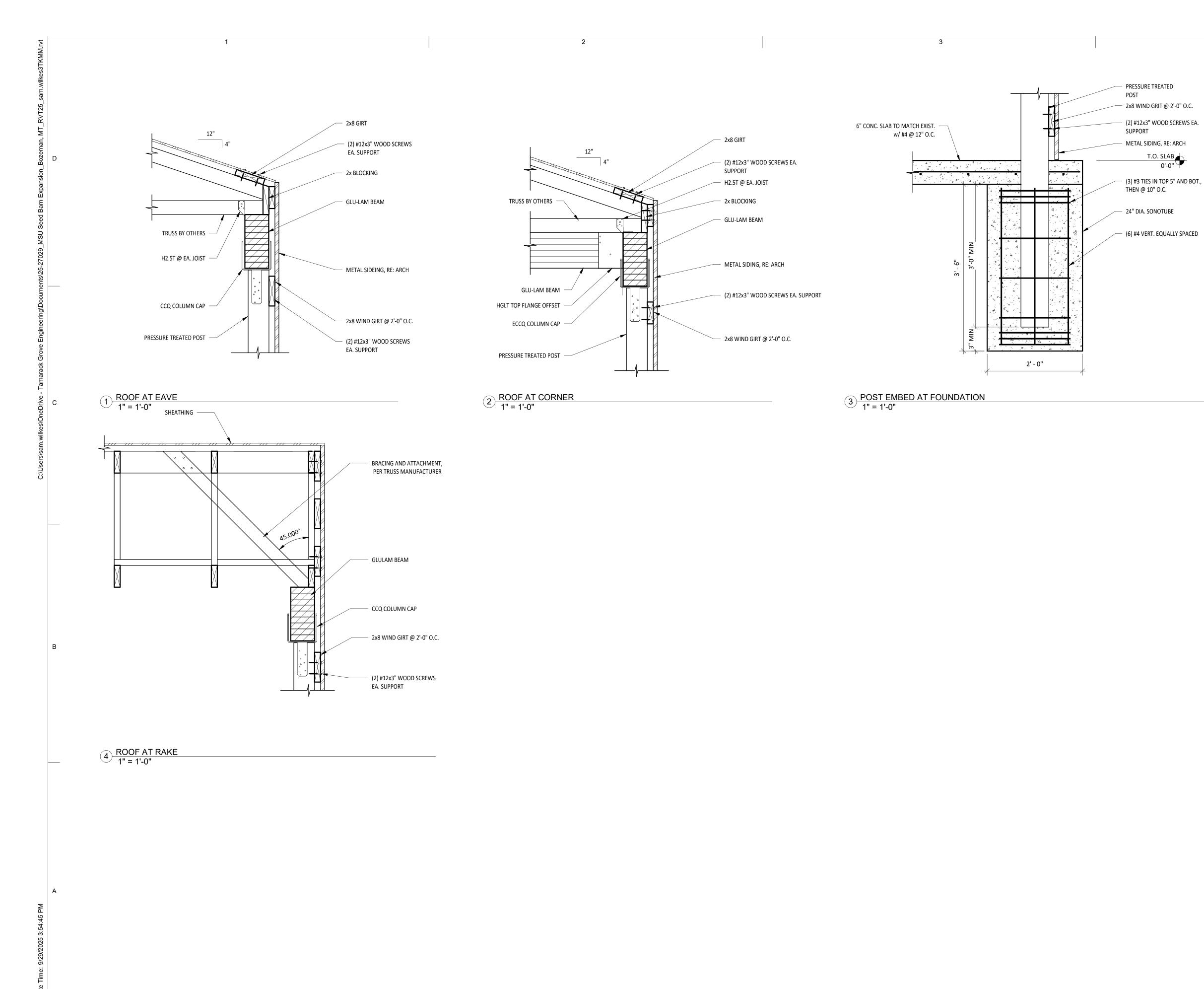
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Sheet Contents
ROOF FRAMING PLAN

Sheet No.

**S2.0** 





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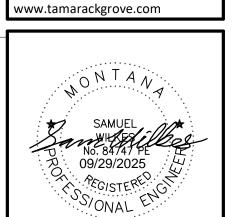
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# POST FARM SEED STORAGE EXPANSION

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Sheet Contents
DETAILS

Sheet No.

**S3.0** 

### PROJECT NOTES

- THE ELECTRICAL WORK SHALL INCLUDE ALL ITEMS, ARTICLES, MATERIALS, OPERATIONS, AND METHODS LISTED, MENTIONED OR SCHEDULED IN THESE DRAWINGS. ALL MATERIAL, EQUIPMENT AND LABOR SHALL BE FURNISHED TOGETHER WITH ALL INCIDENTAL ITEMS REQUIRED BY GOOD PRACTICE TO PROVIDE THE COMPLETE ELECTRICAL SYSTEM DESCRIBED.
- EXAMINE AND REFER TO ALL ARCHITECTURAL, MECHANICAL AND STRUCTURAL DRAWINGS FOR CONSTRUCTION CONDITIONS WHICH MAY AFFECT THE ELECTRICAL WORK. INSPECT THE BUILDING SITE AND EXISTING FACILITIES FOR VERIFICATION OF PRESENT CONDITIONS. MAKE PROPER PROVISIONS FOR THESE CONDITIONS IN PERFORMANCE OF THE WORK AND COST THEREOF.
- THE ELECTRICAL WORK SHALL MEET THE REQUIREMENTS OF THE PLANS AND SHALL NOT BE LESS THAN THE MINIMUM REQUIREMENTS OF ALL APPLICABLE SECTIONS OF THE LATEST CODES AND STANDARDS THAT ARE ADOPTED BY THE AUTHORITY HAVING JURISDICTION.
- THE ELECTRICAL CONTRACTOR SHALL PAY ALL FEES AND ARRANGE FOR ALL PERMITS REQUIRED FOR WORK DONE UNDER HIS CONTRACT AND UNDER HIS SUPERVISION BY SUBCONTRACT.
- THE ELECTRICAL CONTRACTOR SHALL AND HEREBY DOES WARRANT AND GUARANTEE THAT ALL WORK EXECUTED UNDER HIS CONTRACT WILL BE FREE FROM DEFECTS OF MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THIS WORK AND THAT HE WILL, AT HIS OWN EXPENSE, REPAIR AND/OR REPLACE ALL SUCH DEFECTIVE MATERIALS AND WORK DURING THE TERM OF THE WARRANTY.
- MANUFACTURER'S TRADE NAMES AND CATALOG NUMBERS LISTED ARE INTENDED TO INDICATE THE QUALITY OF EQUIPMENT OR MATERIAL DESIRED. MANUFACTURERS NOT LISTED MUST HAVE PRIOR APPROVAL. WRITTEN PRIOR APPROVAL MUST BE OBTAINED FROM THE ARCHITECT SEVEN (7) BUSINESS DAYS PRIOR TO BID OPENING.
- THE DRAWINGS ARE PARTLY DIAGRAMMATIC AND DO NOT NECESSARILY SHOW EXACT LOCATIONS OF CONDUIT UNLESS SPECIFICALLY DIMENSIONED. THEY SHALL NOT BE USED FOR OBTAINING QUANTITIES OR LINEAR RUNS OF CONDUIT.
- ALL WIRING DEVICES. INCLUDING SWITCHES AND RECEPTACLES SHALL BE SPECIFICATION GRADE. SWITCHES AND RECEPTACLES SHALL BE 20-AMPERE UNLESS OTHERWISE NOTED. DEVICES SHALL HAVE METALLIC COVER PLATES MOUNTED ON SURFACE BACK BOXES. ALL GFCI DEVICES AS SHOWN IN PLAN SHALL EQUAL ONE DEVICE. THE USE OF FEED THROUGH PROTECTION IS NOT ACCEPTABLE.
- ALL CONDUCTORS SHALL BE COPPER. ALUMINUM CONDUCTORS WILL NOT BE PERMITTED. MINIMUM CONDUCTOR SIZE SHALL BE NO. 12 AWG. ALL CONDUCTORS SHALL BE INSTALLED IN CONDUIT. ALL CONDUIT SHALL BE EMT UNLESS OTHERWISE NOTED. UTILIZE NO. 10 AWG MINIMUM WIRE SIZE FROM PANEL BOARD TO FIRST LIGHTING FIXTURES AND FIRST RECEPTACLE FOR CIRCUIT RUNS OF 50 FEET OR MORE. PROVIDE DEDICATED NEUTRAL CONDUCTORS FOR ALL 120V CIRCUITS UTILIZED ON PROJECT AS COMBINING OF CIRCUITS TO UTILIZE A COMMON NEUTRAL IS NOT ACCEPTABLE.
- PROVIDE DISCONNECT SWITCHES WHERE REQUIRED BY NEC. DISCONNECT SWITCHES SHALL BE HEAVY DUTY NEMA RATED, UL LISTED AND SERVICE ENTRANCE RATED WHERE REQUIRED.
- REFER TO DEVICE MOUNTING HEIGHT DETAIL FOR INSTALLATION HEIGHT OF DEVICES IN PROJECT.

PANEL NAME

208/120 V 3P 4W

SOURCE: UTILITY/MDP

LENGTH AS REQUIRED

SAMPLE EQUIPMENT LABEL

**EQUIPMENT IDENTIFICATION LABEL** 

1 1/2"

NOT TO SCALE

- PROVIDE UPDATED TYPE WRITTEN PANEL DIRECTORIES FOR ALL PANELS AT PROJECT CLOSE AFFECTED BY REMODEL REGARDLESS IF EXISTING OR NEW PANEL. DIRECTORIES SHALL IDENTIFY/ DESCRIBE LOAD LOCATION. HAND WRITTEN DIRECTORIES ARE NOT ACCEPTABLE.
- FIRE SEAL ALL CONDUIT PENETRATIONS WITH UL-LISTED FIRE RATED CAULKING MATERIALS / ASSEMBLY. WHERE REQUIRED BY APPLICABLE CODES FIRE SEAL ALL FIRE-RATED MEMBRANE PENETRATIONS.
- LABEL ALL MOTOR STARTERS, DISCONNECTS AND PANEL BOARDS WITH SELF ADHESIVE BACKED ENGRAVED ACRYLIC LABELS WITH 1/2 INCH HIGH WHITE LETTERS ON A 1-1/2 INCH HIGH BLACK BACKGROUND LABEL.
- UPON COMPLETION OF WORK, PREPARE A "BROCHURE OF EQUIPMENT" CONTAINING DATA PERTINENT TO EQUIPMENT AND SYSTEMS ON JOB. BINDERS CONTAINING MATERIALS SHALL BE (3) THREE RING BINDERS OF SUFFICIENT NUMBER TO HOLD ALL LITERATURE. CONTAINED IN BINDERS SHALL BE: INSTALLATION, MAINTENANCE, AND OPERATING INSTRUCTIONS FOR EACH PIECE OF EQUIPMENT; PARTS LISTS; WIRING DIAGRAMS; ONE CLEAN COPY OF EACH SHOP DRAWING THAT REFLECTS ANY REQUIRED SHOP DRAWING REVIEW COMMENTS AND LITERATURE SUBMITTAL; RECORD DRAWINGS, ETC.
- EC SHALL MAINTAIN A CLEAN COPY OF AS-BUILDS ON SITE, NOTING ANY DEVIATIONS FROM PLAN. AT PROJECT CLOSE THE AS-BUILDS SHALL BE GIVEN TO THE ARCHITECT FOR USE IN PRODUCING ELECTRONIC AS-BUILD PLANS OF THE PROJECT.
- VERIFY ALL EXISTING CONDITIONS THAT AFFECT ELECTRICAL WORK PRIOR TO SUBMITTING ANY PRICING. MAKE ALLOWANCE TO ACCOMMODATE ALL

CHAMFERED EDGES

3/8" HIGH ENGRAVED

-BLACK-FINISH ROUND-HEAD

EMERGENCY POWER)

—BLACK OVER WHITE LAMINATED PLASTIC (RED OVER WHITE

**SCREWS** 

### MISCELLANEOUS LEGEND

| W/       | WITH  | AFF   | ABOVE FINISHED FLOOR |  |
|----------|---|---|----------------------|--|
| AC       | ABOVE COUNTER                               | AFG   | ABOVE FINISHED GRADE |  |
| EC       | ELECTRICAL CONTRACTOR                       | WM  | WIRE MOLD            |  |
| (E)      | EXISTING                                    | GC  | GENERAL CONTRACTOR   |  |
| (R)      | RELOCATED                                   | GND   | GROUND               |  |
| (N)      | NEW DEVICE                                  | uG  | UNDER GROUND         |  |
| C        | CONDUIT                                     | BOD   | BOTTOM OF DEVICE     |  |
| BFG      | BELOW FINISHED GRADE                        | TOD   | TOP OF DEVICE        |  |
| uc       | UNDER COUNTER                               | COD   | CENTER OF DEVICE     |  |
| WP       | WEATHER PROOF                               | BOF   | BOTTOM OF FIXTURE    |  |
| MC       | MECHANICAL CONTRACTOR                       | PC  | PLUMBING CONTRACTOR  |  |
| 1        | REFER TO ELECTRICAL NOTES                   |   |                      |  |
|          | HOMERUN TO ELECTRICAL PANEL                 | ,   |                      |  |
| <b>*</b> | CONDUCTORS. NO MARKS INDICA                 | NUMBER OF HASH MARKS INDICATES NUMBER OF CURRENT CARRYING CONDUCTORS. NO MARKS INDICATES TWO. GROUNDING CONDUCTOR NOT HOWN BUT SHALL BE INCLUDED IN ALL CONDUITS. |                      |  |
|          | NORMAL CIRCUIT CONCEALED IN WALL OR EXPOSED |   |                      |  |

UNDERGROUND OR BURIED CIRCUIT

### LV LOW VOLTAGE MC MOMENTARY CONTAC OS OCCUPANCY SENSOR P PILOT LIGHT T TIMER - 1 HOUR TIMER, MOTOR RATED FOR EXHAUST FANS DUPLEX RECEPTACLE SUBSCRIPT INDICATES TYPE: AC ABOVE COUNTER GFCI GROUND FAULT CIRCUIT INTERRUPTER IG ISOLATED GROUND TR TAMPER RESISTANT WP WEATHERPROOF WR WEATHER-RESISTANT FILLED CENTER INDICATES GFCI DEVICE DOUBLE DUPLEX RECEPTACLE, SUBSCRIPT ABOVE INDICATE TYPE DUPLEX RECEPTACLE IN FLOOR BOX DOUBLE DUPLEX RECEPTACLE IN FLOOR BOX SIMPLEX RECEPTACLE DUPLEX RECEPTACLE, CEILING MOUNTED. DEVICE AND COVER SHALL MATCH CEILING FINISH $\mathbb{P}^{|lacktrigathlack}$ | SWITCHED DUPLEX RECEPTACLE, BOX INDICATES DEVICE LOCATED IN FLOOR BOX 208V SINGLE PHASE RECEPTACLE, CONFIGURATION NOTED ON PLANS 208V THREE PHASE RECEPTACLE, CONFIGURATION NOTED ON PLANS SIMPLEX RECEPTACLE IN FLOOR BOX MUSHROOM HEAD PUSH BUTTON PHOTO CELL WALL MOUNTED CLOCK HANGER/ POWER RECEPTACLE CORNER WALL MOUNTED OCCUPANCY SENSOR CEILING MOUNTED OCCUPANCY SENSOR, STYLE 1 CEILING MOUNTED OCCUPANCY SENSOR, STYLE 2 CEILING MOUNTED OCCUPANCY SENSOR, STYLE 3 🎙 🌢 🖲 SPECIAL PURPOSE CONNECTION, BRACKET INDICATES WALL MOUNTING, BOX INDICATES FLOOR MOUNTING TITI JUNCTION BOX, BRACKET INDICATES WALL MOUNTING, BOX INDICATES FLOOR MOUNTING M MOTOR CONNECTION NON-FUSED DISCONNECT SWITCH FUSED DISCONNECT SWITCH COMBINATION STARTER/DISCONNECT SWITCH CONTACTOR $\mathfrak{S}_{\mathsf{M}}$ | Manual motor starter (AS) | AOUASTAT BY PLUMBING CONTRACTOR, WIRED BY EC. VFD VARIABLE FREQUENCY DRIVE CO2 DETECTOR BY MC, ROUGH-IN BY EC THERMOSTAT BY MC, ROUGH-IN BY EC PAD MOUNTED UTILITY TRANSFORMER

ELECTRICAL LEGEND

POWER DEVICES

SINGLE POLE SWITCH, SUBSCRIPT INDICATES TYPE:

2 2-POLE

3-WAY

4-WAY

DIMMER

### LIGHTING DEVICES

ELECTRICAL PANEL - SEE PANEL SCHEDULES FOR MOUNTING CONFIGURATION

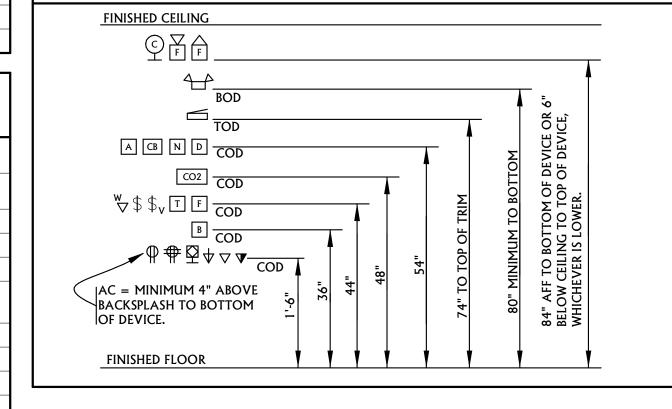
|              | LAY-IN OR RECESSED LIGHTING FIXTURE  |
|--------------|--|
| 0            | SURFACE MOUNTED LIGHTING FIXTURE   |
|              | DIRECT/ INDIRECT LIGHTING PENDANT MOUNTED FIXTURE.   |
| -            | SURFACE MOUNTED OR CHAIN HUNG STRIP FIXTURE  |
|              | WALL BRACKET LIGHTING FIXTURE  |
| O C          | RECESSED DOWN LIGHT, HALF MOON INDICATES WALL WASH TRIM AND DIRECTION.   |
| ¤            | SURFACE MOUNTED CYLINDER FIXTURE   |
| Ю            | WALL MOUNTED FIXTURE   |
| Ю            | WALL SCONCE FIXTURE  |
|              | FILLED CENTER OR SLASH INDICATES FIXTURE IS AN EMERGENCY DEVICE WITH EMERGENCY BATTERY PACK OR CONNECTED TO EMERGENCY POWER. |
| H <b>Z (</b> | EXIT SIGN, BRACKET INDICATES WALL MOUNTING. NUMBER OF FACES AND DIRECTION INDICATED BY FILLED AREAS.                         |
| K            | REMOTE DOUBLE HEAD EGRESS FIXTURE  |
| $\forall$    | SITE GROUND MOUNTED FLOOD FIXTURE  |
| 4            | DOUBLE HEAD WALL MOUNTED BATTERY PACK POWERED EGRESS FIXTURE.  |
| $\sim$       | SQUARE HEAD POLE MOUNTED SITE LIGHT FIXTURE.   |

ROUND HEAD POLE MOUNTED SITE LIGHT FIXTURE.

### ELECTRICAL ABBREVIATIONS

|                  | LLLC I RICAL ADD  |               | 110113                                     |
|------------------|---|---------------|--|
| A<br>ACCU<br>ACU | AMP(S) AIR CONDITIONING CONDENSING UNIT AIR CONDITIONING UNIT | LTS<br>LW     | LIGHTS<br>LIGHT WHITE                      |
| ADJ              | ADJUSTABLE  | MC            | MECHANICAL CONTRACTO                       |
| ADMIN            | ADMINISTRATION  | MCA           | MINIMUM CIRCUIT AMPS                       |
| AFF              | ABOVE FINISH FLOOR  | MCB           | MAIN CIRCUIT BREAKER                       |
| AHU              | AIR HANDLING UNIT   | MDP           | MAIN DISTRIBUTION PANEL                    |
| AL<br>AMP        | ALUMINUM<br>AMPERE(S)   | MECH          | MECHANICAL                                 |
| APPL             | APPLIANCE   | MFA<br>MFG    | MINIMUM FEEDER AMPACIT MANUFACTURER        |
| APPROX           | APPROXIMATE   | MIN           | MINIMUM                                    |
| ATS              | AUTOMATIC TRANSFER SWITCH                                     | MLO           | MAIN LUGS ONLY                             |
| BLDG             | BUILDING  | MOC           | MOMENTARY CONTACT                          |
| BRK              | BREAKER   | MOCP          | MAXIMUM OVERCURRENT                        |
| BTU/HR           | BRITISH THERMAL UNIT/HOUR                                     |               | PROTECTION                                 |
|                  |   | MP            | MAIN PANEL                                 |
| C                | CONDUIT   | MTD           | MOUNTED                                    |
| CB<br>CCT        | CIRCUIT BREAKER<br>CIRCUIT                                    | NIC           | NOT IN CONTRACT                            |
| CCTV             | CLOSED CIRCUIT TELEVISION                                     | NO            | NUMBER                                     |
| CUH              | CABINET UNIT HEATER   | 140           | rtai ibbit                                 |
| CFM              | CUBIC FEET PER MINUTE   | OCP           | OVERCURRENT PROTECTIO                      |
| COM              | COMMUNICATION   | OFF           | OFFICE                                     |
| COMM             | COMMISSARY  | ОН            | OVERHEAD                                   |
| COMP<br>COND     | COMPRESSOR<br>CONDENSER                                       | P             | PHASE                                      |
| CONTR            | CONTRACTOR  | PNL           | PANEL                                      |
| cu               | COPPER  | PREP          | PREPARATION                                |
| CTV              | CABLE TELEVISION  | PROD          | PRODUCE                                    |
| CW<br>CWP        | COOL WHITE<br>COLD WATER PUMP                                 | P/I           | PROVIDE & INSTALL                          |
| CVVI             | COLD WATER FUFIF  | RA            | REMOTE ANNUNCIATOR                         |
| DIA              | DIAMETER  | RAF           | RETURN AIR FAN                             |
| DISC             | DISCONNECT  | RECP          | RECEPTACLE                                 |
| DPS              | DOOR POWER SUPPLY   | RECPTS<br>REF | RECEPTACLES<br>REFRIGERATOR                |
| DWG              | DRAWING   | REFR          | REFRIGERANT                                |
| r.c              | FI FCTDICAL CONTDACTOR  | REQD          | REQUIRED                                   |
| EC<br>Ef         | ELECTRICAL CONTRACTOR EXHAUST FAN                             | RM            | ROOM                                       |
| ELEC             | ELECTRIC  | RMS           | ROOM(S)                                    |
| EMD              | ESTIMATED MAXIMUM DEMAND                                      | RR<br>RS      | RESTROOMS<br>RAPID START                   |
| EMER             | EMERGENCY   | KJ            | 10 11 15 317 111                           |
| ENGR<br>ETC      | ENGINEER<br>ETCETERA  | SDP           | SUB DISTRIBUTION PANEL                     |
| EWC              | ELECTRIC WATER COOLER   | SER           | SERVICE                                    |
| EXT              | EXTERIOR  | SF            | SUPPLY FAN<br>SHEET                        |
|                  |   | SHT<br>SN     | SOLID NEUTRAL                              |
| FA               | FIRE ALARM  | SP            | SWITCH, PILOT                              |
| FAC<br>FACP      | FACILITY FIRE ALARM CONTROL PANEL                             | SPECS         | SPECIFICATIONS                             |
| FIX              | FIXTURE   | SPST          | SWITCH, SINGLE POLE-                       |
| FLA              | FULL LOAD AMPS  | STD           | SINGLE THROW<br>STANDARD                   |
| FT               | FOOT  | STL           | STEEL                                      |
|                  | CTV-17-11-COV-17-1-CT-0-                                      | STOR          | STORAGE                                    |
| GC               | GENERAL CONTRACTOR GROUND FAULT CIRCUIT INTERRUPTER           | SW            | SWITCH                                     |
| GFCI<br>GFI      | GROUND FAULT CIRCUIT INTERRUPTER  GROUND FAULT INTERRUPTER    | TDD           | TELEPHONE BACK BOARD                       |
| GITI             | GROUND FAGET INTERROLTER                                      | TBD<br>TV     | TELEVISION                                 |
| HP               | HORSEPOWER  | TYP           | TYPICAL                                    |
| HPS              | HIGH PRESSURE SODIUM  | • • •         |  |
| HID              | HIGH INTENSITY DISCHARGE                                      | UG            | UNDERGROUND                                |
| HT<br>HTRS       | HEIGHT<br>HEATERS   | UGE           | UNDERGROUND ELECTRICA UNDERGROUND TELEPHON |
| HW               | HOT WATER   | UGT<br>UH     | UNIT HEATER                                |
| HWH              | HOT WATER HEATER  | di i          |  |
| HWP              | HOT WATER PUMP  | V             | VOLT(S)                                    |
| HZ               | HERTZ   | VA            | VOLT AMPERES<br>VESTIBULE                  |
| INC              | INCORPORATED  | VEST          |  |
| J-BOX            | JUNCTION BOX  | W<br>W        | WIRE<br>WATT(S)                            |
| KHZ              | KILOHERTZ   | W/            | WITH                                       |
| KIT              | KITCHEN   | WM            | WATT MISER                                 |
|                  | VIIIVOLT ANDEDECC)  |               |  |
| KVA<br>KW        | KILIVOLT AMPERE(S)<br>KILOWATT(S)                             | XFMR          | TRANSFORMER                                |

### INTERIOR MOUNTING HEIGHTS



### ELECTDIC AL CLIET LICT

|      | ELECTRICAL SHEET LIST       |
|------|-----------------------------|
| E001 | ELECTRICAL COVER            |
| E100 | ELECTRICAL DEMOLITION PLANS |
| F200 | FLECTRICAL REMODEL PLANS    |

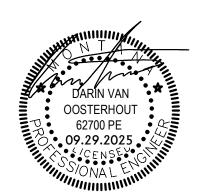
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ACE JOB 25BZ6186



Revisions

Drawn by 09.29.2025 Checked Job No. 25BZ6186

**Sheet Contents ELECTRICAL COVER** 

> Sheet No. E001

### LUMINAIRE SCHEDULE **ELECTRICAL** CALLOUT MANUFACTURER **MODEL** DATA **DESCRIPTION** MOUNTING LAMP LITHONIA LIGHTING | IBE L24 15000LM ND NVOLT 40K DWH SUSPENDED LED 120 V/1-105 VA 2' LED HIGH BAY 4000K 15000 LUMENS. (WHITE FINISH) LITHONIA LIGHTING INDL SP640L UVOLT LTP SDRT CW LED 120 V/1-5 VA EMERGENCY LIGHT 2 HEADS. 640 LM. COLD LOCATION RATED. LITHONIA LIGHTING WPX2 LED 40K MVOLT E14WC 120 V/1-47 VA WALL MOUNTED EXTERIOR SITE LIGHTING 4000K 6000 LUMENS. 14 WATT EMERGENCY BATTERY BACKUP. (FINISH BY ARCHITECT) LITHONIA LIGHTING LV S W 1 R 120/277 EL N CW LED 120 V/1-5 VA EMERGENCY EXIT SIGN. NICKEL CADMIUM BATTERY BACKUP.

TORK #EPC1

COIL

**PROVIDE** 

TORK #ELC74 4-CHANNEL

TIME CLOCK,

OR EQUAL, WITH PHOTOCELI

**EXTERIOR LIGHTS PHOTOCONTROL** 

EXTERIOR BUILDING LIGHTS

-MAIN PANEL ELECTRICAL DEMOILTION PLANS

### **ELECTRICAL GENERAL DEMOLITION NOTES**

- A ALL DASHED ITEMS ON DEMOLITION PLANS ARE TO BE REMOVED UNLESS NOTED OTHERWISE. DEVICES SHOWN ARE BASED ON EXISTING PLANS AND LIMITED VISUAL FIELD OBSERVATIONS AND ARE ONLY INTENDED TO CONVEY SCOPE. DEMO OR MODIFY ALL EXISTING ELECTRICAL INSTALLATIONS ARE REQUIRED TO SUPPORT PROJECT. FIELD VERIFY ALL CONDITIONS PRIOR TO BIDDING.
- B ALL ITEMS DENOTED WITH AN (R) ARE TO BE RELOCATED OR REMOVED AND REINSTALLED. ALL SHADED ITEMS ARE EXISTING TO REMAIN. ALL ITEMS DENOTED WITH AN (E) ARE EXISTING TO REMAIN.
- C EXISTING CONDUITS STUBBED THROUGH THE FLOOR THAT ARE NOT REUSED OR ARE ABANDONED SHALL BE CUT AT THE FLOOR SURFACE, GROUND FLUSH AND FILLED WITH GROUT. FLOOR FINISH SHALL MATCH THAT OF EXISTING.
- D REMOVE ALL CONDUCTORS, CABLING AND RACEWAYS BACK TO SOURCE OR TO NEARSEST JUNCTION UNNAFFECTED BY DEMOLITION AND REMODEL WORK, UNLESS OTHERWISE NOTED. NO EXISTING WIRING MAY BE REUSED IN THE NEW ELECTRICAL WORK. PROVIDE NEW CONDUCTORS IN EXISTING RACEWAYS THAT ARE FEASIBLE TO RE-USE. USE EXISTING BACK BOXES WITH NEW DEVICES IN APPROPRIATE AREAS.
- E SOME DEVICES AND SYSTEMS THAT ARE NOT REMOVED MAY BE AFFECTED BY DEMOLITION AND CONSTRUCTION. PROVIDE ALL LABOR AND MATERIALS REQUIRED TO MAINTAIN OR RESTORE CONTINUITY AND FUNCTION OF ALL EXISTING DEVICES AND SYSTEMS THAT ARE NOT REMOVED BUT ARE AFFECTED BY DEMOLITION OR CONSTRUCTION WORK.
- F ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH NEC, STATE AND LOCAL BUILDING CODE.
- G ANY WORK THAT REQUIRES POWER DISRUPTIONS SHALL BY SCHEDULED AND APPROVED BY THE OWNER. ALL WORK SHALL BE PERFORMED WITH NO DISRUPTION OF THE OWNERS'S BUSINESS.
- H OWNER HAS FIRST RIGHT OF REFUSAL FOR ALL REMOVED EQUIPMENT AND MATERIALS.
  PRESENT ALL REMOVED EQUIPMENT AND MATERIALS TO OWNER, REMOVE ALL
  UNCLAIMED MATERIALS FROM PROJECT SITE AND DISPOSE OF IT IN ACCORANCE WITH
  ALL APPLICABLE REGULATIONS.
- PROVIDE UPDATED, TYPEWRITTEN DIRECTORIES FOR ALL EXISTING PANELS AFFECTED BY DEMOLITION WORK. LABEL ALL CIRCUIT BREAKERS THAT HAVE THEIR ENTIRE LOAD REMOVED AS 'SPARE'.

### **ELECTRICAL KEYNOTES**

- 1 RELOCATE OVERHEAD DOOR MOTOR. RETAIN WIRING FOR REUSE. SEE REMODEL PLAN.
- 2 RELOCATE RECEPTACLE. RETAIN WIRING FOR REUSE. SEE REMODEL PLAN.

4 RELOCATE LIGHT SWITCH. RETAIN WIRING FOR REUSE. SEE REMODEL PLAN.

3 DISCONNECT EXISTING ELECTRICAL SERVING PLUG BACK TO NEAREST JUNCTION BOX. SEE REMODEL PLAN.

ARCHITECTS ALASKA

> 900 W. 5th Avenue, Suite 403 Anchorage AK, 99501 907.272.3567

191 E. Swanson Avenue, Suite 403 Wasilla AK, 99654 907.373.7503

www.architectsalaska.com



12 N. BROADWAY
SECOND FLOOR
BELGRADE, MT 59714
406-388-3320
ACE 10B 25BZ6186



## POST FARM SEED STORAGE EXPANSION 8431 HUFFINE LANE, BOZEMAN, MT 59718

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| Drawn by<br>JB | Date<br>09.29.2025  |  |
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| Checked<br>DV  | Job No.<br>25BZ6186 |  |

Sheet Contents
ELECTRICAL DEMOLITION PLANS

Sheet No

E100

**ELECTRICAL LIGHTING GENERAL NOTES** A REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION ON DEVICE LOCATIONS, DIMENSIONS, ETC. CAREFULLY EXAMINE ARCHITECTURAL FLOOR PLANS, CEILING PLANS, ELEVATIONS, ETC. FOR INFORMATION THAT AFFECTS ELECTRICAL WORK. NOTIFY ARCHITECT/ENGINEER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND ELECTRICAL PLANS. B ALL DARK ITEMS ARE NEW, UNLESS NOTED OTHERWISE. ALL SHADED ITEMS ARE EXISTING TO REMAIN. C ALL ITEMS DENOTED WITH AN (R) ARE RELOCATED OR REINSTALLED. ALL ITEMS DENOTED WITH AN (E) ARE EXISTING TO REMAIN. D MODIFY AND REUSE EXISTING CIRCUITS WHERE POSSIBLE. CIRCUITING SHALL BE AS SHOWN BUT CIRCUIT NUMBERS MAY BE CHANGED TO MAKE USE OF EXISTING AVAILABLE CIRCUITS. PROVIDE NEW BREAKERS AND WIRING AS NEED TO ACCOMMODATE NEW CIRCUITING. E CONNECT ALL LIGHTING FIXTURES TO EXISTING LIGHTING CIRCUITS UNLESS NOTED OTHERWISE. VERIFY EXISTING LOAD PRIOR TO CONNECTING ADDITIONAL LIGHTING F CONNECT ALL EXIT SIGNS AND EMERGENCY FIXTURES TO EXISTING EMERGENCY CIRCUITS SUPPLYING AREA UNLESS NOTED OTHERWISE, WIRING NOT SHOWN. G LOW VOLTAGE WIRING FOR OCCUPANCY SENSORS AND POWER PACKS NOT SHOWN. PROVIDE POWER PACKS AND WIRING AS REQUIRED FOR ALL OCCUPANCY SENSORS. H VERIFY VOLTAGE OF EXISTING LIGHTING CIRCUITS PRIOR TO SUBMITTALS. COORDINATE ANY MODIFICATIONS TO LIGHTING CIRCUITS OR FIXTURES WITH ENGINEER. PROVIDE UNSWITCHED HOT CONDUCTOR FROM LOCAL LIGHTING CIRCUIT TO ALL EMERGENCY AND EXIT FIXTURES. WHEN LIGHT SWITCHES ARE SHOWN LOCATED ON THE WALL THAT IS COMMON WITH THE END OF THE DOOR SWING INTO A SPACE, DO NOT LOCATE THE SWITCHES BEHIND THE DOOR BUT RATHER A MINIMUM OF 6" FROM THE END OF THE SWING. VERIFY EXACT DOOR SWING PRIOR TO ROUGH-IN. K FIRE SEAL ALL PENETRATIONS IN FIRE RATED WALLS. COORDINATE WITH ARCHITECTURAL FOR LOCATIONS. -MAIN **PANEL** ELECTRICAL REMODEL PLANS

1/8" = 1'-0"

### **ELECTRICAL POWER GENERAL NOTES**

- A REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION ON DEVICE LOCATIONS, DIMENSIONS, ETC. CAREFULLY EXAMINE ARCHITECTURAL FLOOR PLANS, CEILING PLANS, ELEVATIONS, ETC. FOR INFORMATION THAT AFFECTS ELECTRICAL WORK. NOTIFY ARCHITECT/ENGINEER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND ELECTRICAL PLANS.
- B ALL DARK ITEMS ARE NEW, UNLESS NOTED OTHERWISE. ALL SHADED ITEMS ARE EXISTING TO REMAIN.
- C CONNECT ALL DEVICES TO EXISTING CIRCUITS SERVING THE AREA UNLESS NOTED OTHERWISE. VERIFY EXISTING LOAD PRIOR TO CONNECTING ADDITIONAL DEVICES.
- D FIRE SEAL ALL PENETRATIONS IN FIRE RATED WALLS. COORDINATE WITH ARCHITECTURAL FOR LOCATIONS.

### **ELECTRICAL KEYNOTES**

- 1 REINSTALL OVERHEAD DOOR MOTOR SAVED DURING DEMO PHASE IN NEW LOCATION. EXTEND/ MODIFY CONDUIT AND CONDUCTORS AS NECESSARY. COORDINATE WITH FRAMING. REUSE EXISTING CIRCUIT PANEL A-2.
- 2 REUSE EXISTING LIGHTING CIRCUITS. VERIFY CIRCUIT LOADING PRIOR TO ADDING ANY LOAD.
- 3 CIRCUIT TO EXISTING RECEPTACLE CIRCUIT FOR NORTH WALL PANEL A-8. VERIFY CIRCUIT LOADING PRIOR TO ADDING ANY LOAD.
- 4 CIRCUIT TO EXISTING RECEPTACLE CIRCUIT FOR SOUTH WALL PANEL A-6. VERIFY CIRCUIT LOADING PRIOR TO ADDING ANY LOAD.
- CIRCUIT TO EXISTING RECEPTACLE CIRCUIT FOR OUTSIDE WALL PANEL A-1. VERIFY CIRCUIT LOADING PRIOR TO ADDING ANY LOAD.
- 6 REINSTALL RECEPTACLE SAVED DURING DEMO PHASE IN NEW LOCATION. EXTEND/ MODIFY CONDUCTORS AS NECESSARY. COORDINATE WITH FRAMING. REUSE EXISTING CIRCUIT PANEL A-9,11.
- PROVIDE NEW WEATHER RATED NEMA 10-50 RECEPTACLE IN WEATHERPROOF ENCLOSURE. REUSE EXISTING CIRCUIT FOR OUTDOOR PLUG. EXTEND/ MODIFY CONDUIT AND CONDUCTORS AS NECESSARY.
- PROVIDE PHOTOCELL FOR CONTROL OF EXTERIOR BUILDING LIGHTS. SEE SHEET E001 DETAIL 2 FOR MORE INFORMATION.
- PROVIDE TORK #ELC74 TIME CLOCK. COORDINATE INSTALL LOCATION WITH OWNER.
   USE EXISTING LIGHT SWITCH TO CONTROL EXISTING LIGHTS (ZONES A&B). PROVIDE NEW THREE WAY SWITCH TO CONTROL NEW LIGHTS (ZONE C).
- RELOCATE EXISTING LIGHT SWITCH TO CONTROL EXISTING LIGHTS (ZONES A&B) EXTEND/MODIFY CONDUIT AS NECESSARY. PROVIDE NEW THREE WAY SWITCH TO CONTROL NEW LIGHTS (ZONE C).



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ELECTRICAL REMODEL PLANS

Sheet No

**E200**