

UNIVERSITY OF IDAHO RINKER ROCK CREEK RANCH BARN REMODEL FAIRFIELD, IDAHO 83327

UI #CP:240031

APN: RP01N17026010G

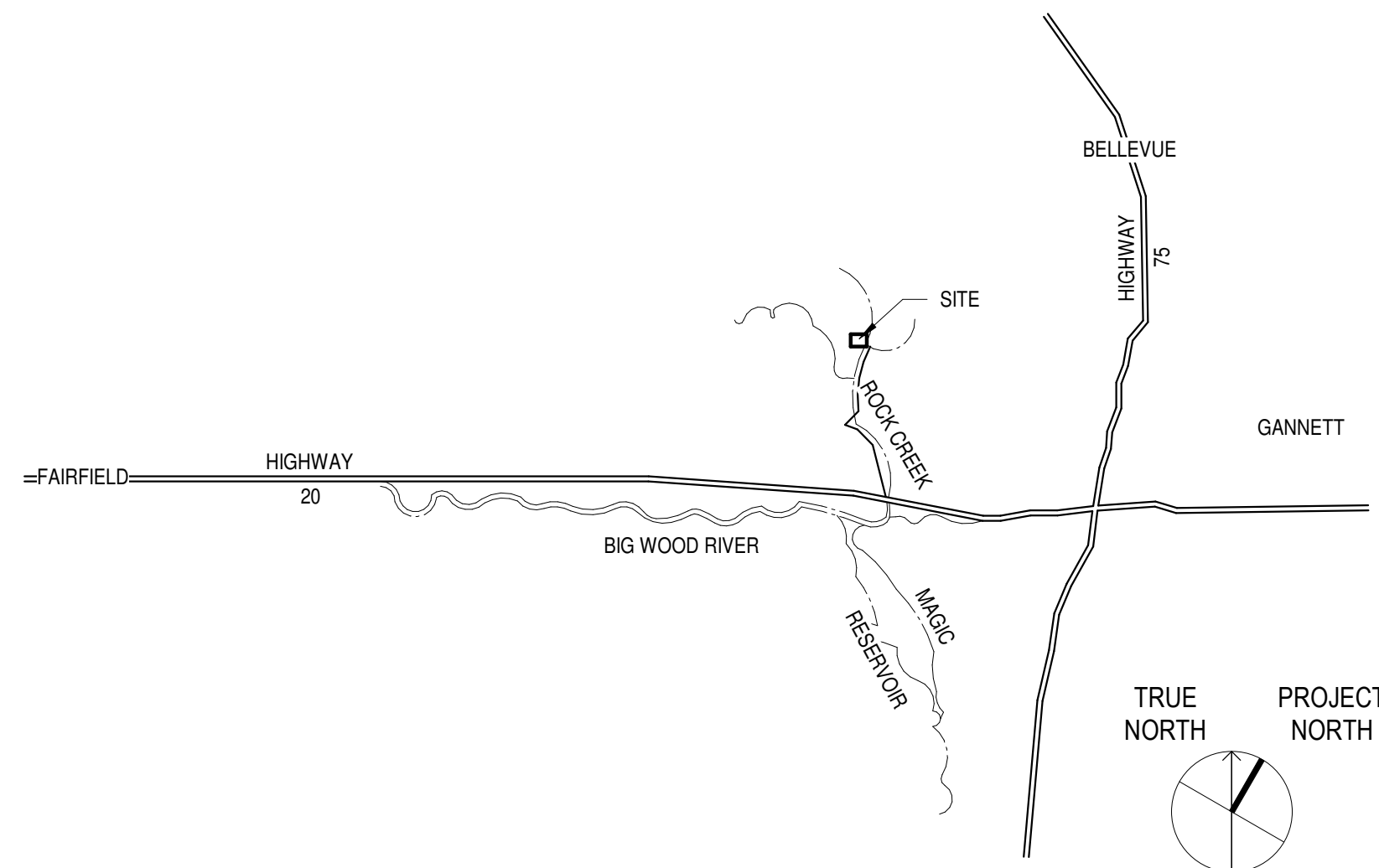
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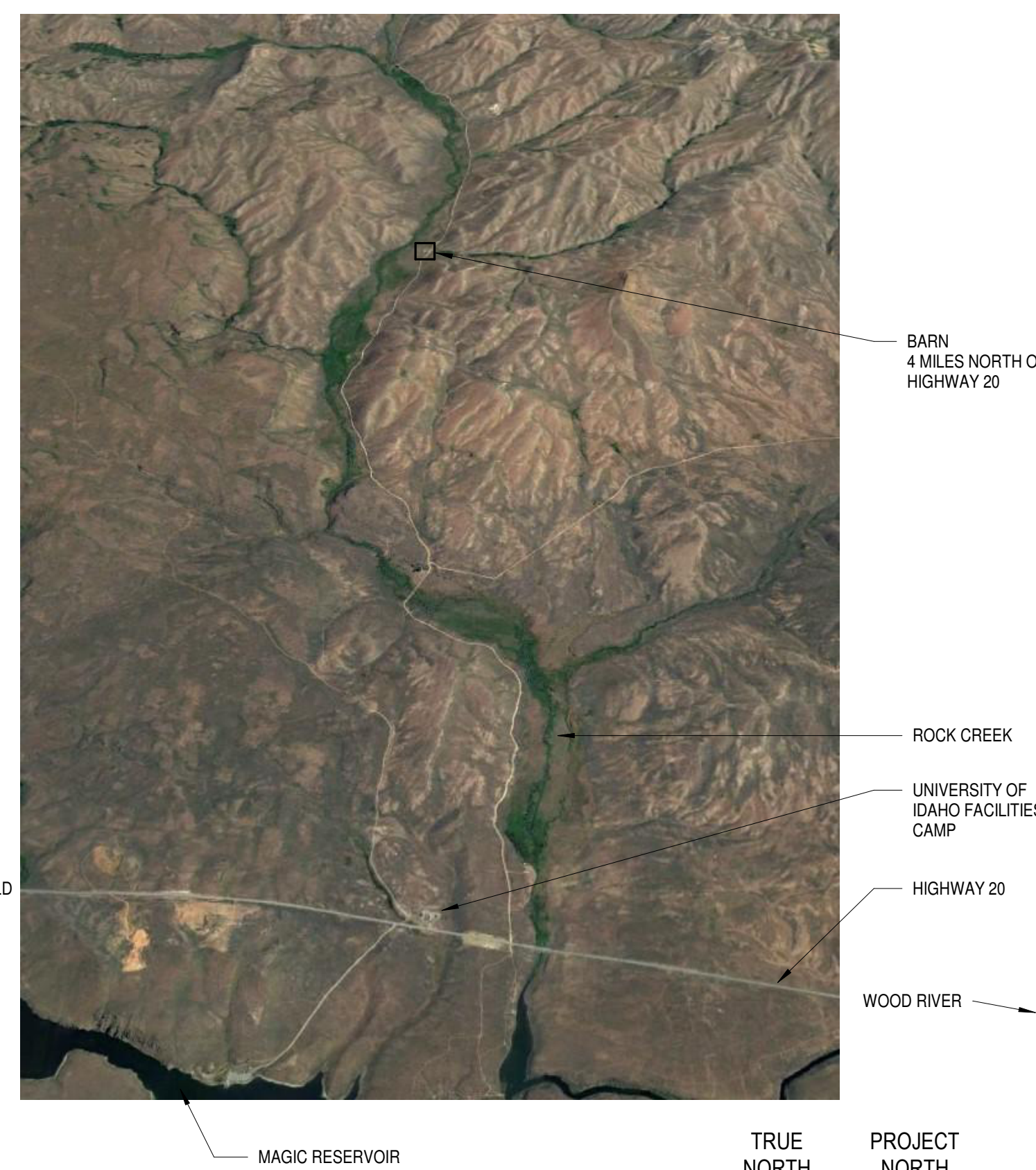
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VICINITY MAP



SITE LOCATION



SYMBOLS LEGEND

DRAWING TITLE		C4 TITLE	DRAWING TITLE
DRAWING NUMBER		SCALE: 1/8" = 1'-0"	
DRAWING SCALE			
GRID LETTER OR NUMBER		A1	REFERENCE GRID INDICATOR
SECTION NO.		A3	BUILDING SECTION MARK
SHEET NO.		A-301	
SECTION NO.		B3	WALL SECTION MARK
SHEET NO.		A-311	
DETAIL NO.		D2	DETAIL MARK
SHEET NO.		A-512	
DETAIL NO.		D2	DETAIL BOUNDARY CALLOUT
SHEET NO.		A-512	
ROOM NAME		A4	INTERIOR ELEVATION INDICATOR
ROOM NO.		A-101	
REFERENCE KEYNOTE NO.		01	REFERENCE KEYNOTE INDICATOR
KEYNOTE NO.		53 00 A1	
WINDOW OR LOUVER NO.		1	SHEET KEYNOTE INDICATOR
DOOR NO.		1	WINDOW AND LOUVER TYPE IDENTIFIER
REVISION NO.		1	DOOR OPENING IDENTIFIER
WALL NO.		M6	REVISION INDICATOR
EQUIP / ITEM NO.		E46	WALL TYPE INDICATOR
FINISH NO.		F1	FURNITURE, FIXTURE, AND EQUIPMENT INDICATOR
ELEVATION		+110-0" F.F.	FINISH INDICATOR
TRUE NORTH DIRECTION		PLAN NORTH	ELEVATION INDICATOR
			NORTH INDICATOR
			REVISION IDENTIFICATION

NOTE: THIS IS A GENERAL SYMBOLS LEGEND. ALL SYMBOLS DO NOT APPLY TO EVERY JOB.

PROJECT TEAM

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MOSCOW, IDAHO

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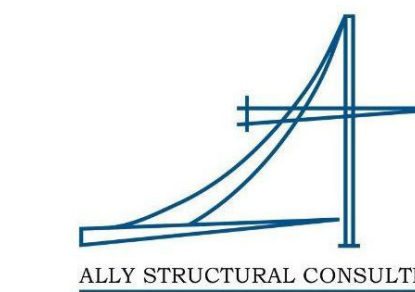
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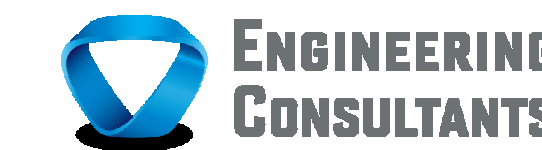
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DEFERRED SUBMITTALS

SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD WHO SHALL REVIEW THEM AND INDICATE BY NOTATION THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. DEFERRED SUBMITTALS WILL BE RETURNED TO THE CONTRACTOR.

ITEMS DEFERRED ARE REQUIRED TO HAVE A SEPARATE REVIEW AND APPROVAL. EVERY DEFERRED SUBMITTAL SHALL HAVE SUFFICIENT DRAWINGS, DETAILS AND SUPPORTING DATA TO STAND ON ITS OWN WITHOUT REFERENCE TO PREVIOUSLY APPROVED PLANS. PROVIDE A COMPLETE PACKAGE FOR SUBMISSION OF DEFERRED ITEMS.

THE FOLLOWING ITEMS ARE DEFERRED SUBMITTALS:

- PRE-MANUFACTURED WOOD TRUSSES

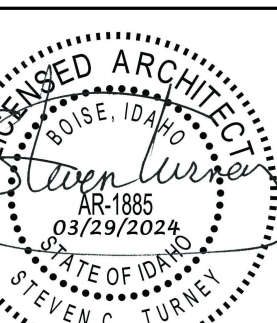
SEPARATE REVIEWS & PERMITS

SEPARATE SUBMITTALS, REVIEWS AND PERMITS ARE REQUIRED FOR THE FOLLOWING ITEMS. INFORMATION INCLUDED IN THIS SET OF DRAWINGS REGARDING THESE ITEMS IS INCLUDED FOR REFERENCE ONLY.

THESE SEPARATELY PERMITTED ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED AND PERMITTED BY THE AUTHORITIES HAVING JURISDICTION.

THE FOLLOWING ITEMS ARE SUBMITTED, REVIEWED AND PERMITTED SEPARATELY:

- NONE

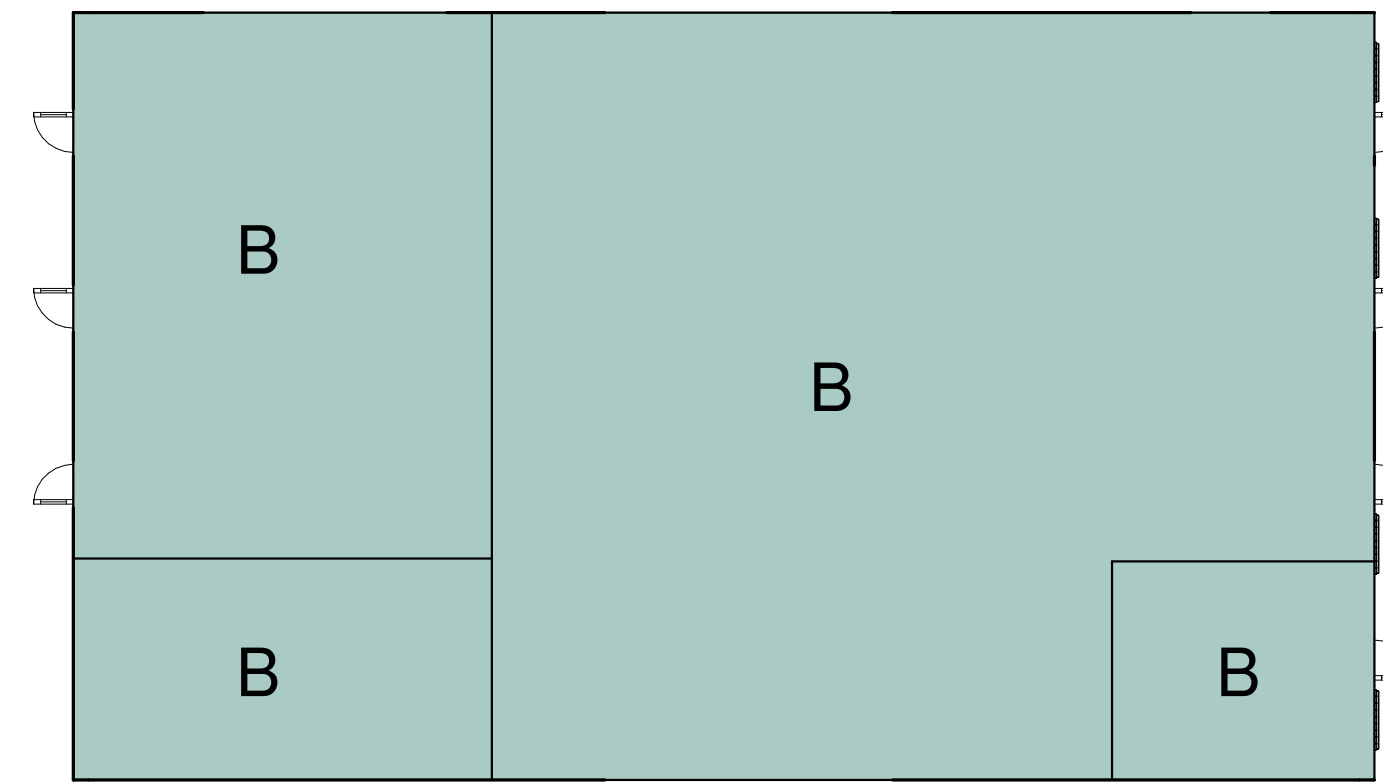


ZGA
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300 E. Mallard Drive, Suite 325, Boise Idaho 83706

UNIVERSITY OF IDAHO
RINKER ROCK CREEK RANCH BARN REMODEL
FAIRFIELD, IDAHO 83327

DATE: 3/29/2024
PROJECT NO: 2306.01
SHEET:
G001
COVER SHEET

OCCUPANCY CLASSIFICATION



FIRE AND LIFE SAFETY LEGEND

- MAXIMUM TRAVEL DISTANCE
- EXIT ACCESS SEPARATION & DIAGONAL DISTANCE
- PRIMARY EGRESS PATH
- EGRESS PATH
- OCCUPANT LOAD
- EXIT DOOR INDICATOR
- EXIT CAPACITY
- FIRE EXTINGUISHER (BRACKET MOUNTED)
- EXIT SIGN
- SMOKE DETECTOR BATTERY OPERATED

APPLICABLE CODE DATA

APPLICABLE CODES:
 2018 INTERNATIONAL BUILDING CODE WITH IDAHO BUILDING CODE BOARD AMENDMENTS
 2018 ENERGY CONSERVATION CODE, COMMERCIAL PROVISIONS, WITH IDAHO CODE BOARD AMENDMENTS
 2018 INTERNATIONAL EXISTING BUILDING CODE WITH IDAHO CODE BOARD AMENDMENTS
 2018 INTERNATIONAL MECHANICAL CODE WITH IDAHO HVAC BOARD AMENDMENTS
 2018 INTERNATIONAL FUEL AND GAS CODE WITH IDAHO HVAC BOARD AMENDMENTS
 2017 IDAHO STATE PLUMBING CODE (BASED ON THE 2015 UNIFORM PLUMBING CODE) WITH IDAHO PLUMBING BOARD AMENDMENTS
 2017 NATIONAL ELECTRICAL CODE WITH IDAHO ELECTRICAL BOARD AMENDMENTS
 2018 INTERNATIONAL FIRE CODE
 2009 ICC ANSIA117.1 (BY INFERENCE)

ALLOWABLE AREA INCREASE:
 NOT TAKEN.

OCCUPANCY TYPE
 GROUP B (EDUCATION ABOVE 12TH GRADE; LABORATORIES, TESTING AND RESEARCH)

ALLOWABLE AREA (2018 IBC, 506.2 TYPE II-B):
 GROUP B (NS) 9,000 SF (1,736 SF EXISTING)

OPENING PROTECTIVES, RATINGS AND MARKINGS (2018 IBC, TABLE 716.1(2)):
 N/A

ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLANE (2018 IBC, TABLE 504.4 II-B):
 GROUP B (NS TYPE V) (2) STORIES (1) STORY ACTUAL

ALLOWABLE BUILDING HEIGHT ABOVE GROUND PLANE (2018 IBC, TABLE 504.3):
 GROUP B (NS TYPE V) 40'

SPRINKLER NOT REQUIRED (2018 IBC):
 GROUP B NOT REQUIRED / RURAL NOT REQUIRED PER STATE FIRE MARSHAL

SMOKE DETECTORS
 BATTERY OPERATED PER IDAHO STATE FIRE MARSHAL

FIRE SUPPRESSION
 UTILITY 105: THERMALLY ACTIVATED POTASSIUM AEROSOL SYSTEM FOR LITHIUM STORAGE UNITS

OCCUPANT LOAD (2018 IBC, TABLE 1004.5):
 GROUP B (SHOPS, VOCATIONAL AREAS) 1,641 SF / 50 SF PER OCCUPANT = 33 PERSONS
 GROUP B (BUSINESS AREAS) 95 SF / 150 SF PER OCCUPANT = 1 PERSON
 TOTAL 34 PERSONS TOTAL

SPACES WITH ONE EXIT (2018 IBC, TABLE 1006.2.1):

OCCUPANCY	MAX OCC	MAX BATH OL-30
GROUP B	49	75

STORIES WITH ONE EXIT (2018 IBC, TABLE 1006.3.3 (2)):

FIRST STORY ABOVE GRADE	OCCUPANCY	MAX LOAD	COMMON PATH
GROUP B	49 OCC		75

PLUMBING:
 N/A (NO SEWER, SEPTIC IN RIPARIAN AREAS, ALL POTABLE WATER IS BROUGHT TO SITE).
 SITE CURRENTLY HAS PORTA-POTTIES, FUTURE VAULT TOILET PROPOSED.

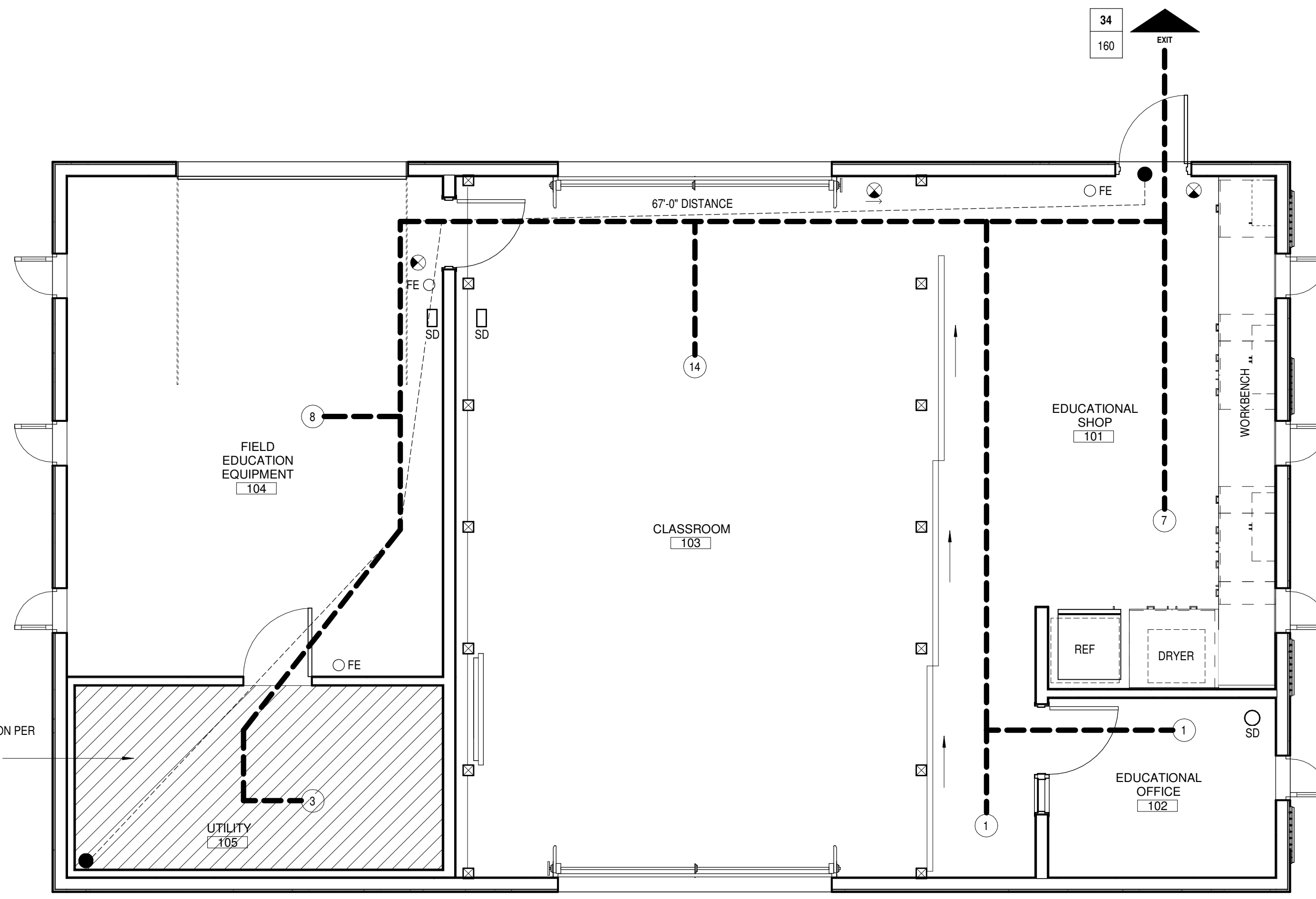
2017 IPC 422.2 SEPARATE FACILITIES EXC. (3); TOTAL OCCUPANTS 34 < 50 THEREFORE ONE TOILET FACILITY WILL BE REQUIRED.

BLAINE COUNTY LANDSCAPING:
 SITE IS AGRICULTURAL.

BLAINE COUNTY ZONING:
 PARCEL: RP01N17026010G & RP01N17026010H
 LEGAL: PART OF SECTION 26, TOWNSHIP 1 NORTH, RANGE 17 EAST, BOISE MERIDIAN, BLAINE COUNTY, IDAHO
 ZONING: A-40, RR-40
 100 YEAR FLOODPLAIN: NO
 TOTAL ACRES: 10,400 ACRES
 MAXIMUM BUILDING HEIGHT 26' (PROPOSED) < 35'
 MINIMUM FRONT YARD SETBACK: N/A
 MINIMUM SIDE AND REAR YARD SETBACK: N/A
 MINIMUM LOT WIDTH: N/A
 WETLANDS WITHIN 100' OF DEVELOPMENT: NO

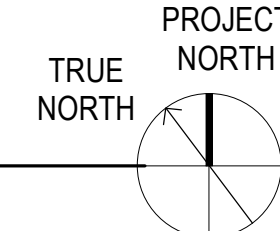
BLAINE COUNTY PARKING:
 1,736 SF / 300 SF PER PARKING SPACE REQ'D. = 6 SPACES
 OPEN PARKING AREA PROVIDED

ACCESSIBLE PARKING SPACES (2018 IBC TABLE 1106.1):
 (1) SPACE REQUIRED, (1) TO BE VAN ACCESSIBLE (2018 IBC 1106.5)
 (1) ACCESSIBLE VAN SPACE PROVIDED FOR FACILITY, (1) ACCESSIBLE VAN SPACE PROVIDED FOR PROPOSED VAULT TOILET.

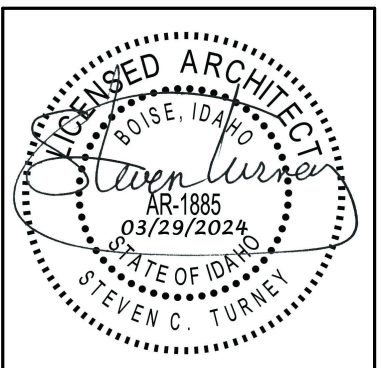


(1) HOUR SEPERATION PER 2018 IBC TABLE 509 "INCIDENTAL USES"

A2 LIFE SAFETY PLAN
 G002 1/4" = 1'-0"



REVISIONS



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 300 E. Mallard Drive, Suite 325, Boise Idaho 83706

UNIVERSITY OF IDAHO
 RINKER ROCK CREEK RANCH BARN REMODEL
 FAIRFIELD, IDAHO 83327

DATE: 3/29/2024
 PROJECT NO: 2306.01

SHEET:
G002
 FIRE & LIFE SAFETY SUMMARY

COMcheck Software Version 4.1.5.5 Envelope Compliance Certificate

Project Information
 Energy Code: 2018 IECC
 Project Title: UI Rinker Rock Creek Ranch Barn
 Location: Fairfield, Idaho
 Climate Zone: 6b
 Project Type: New Construction
 Vertical Glazing / Wall Area: 3%

Construction Site: Fairfield, ID
Owner/Agent: University of Idaho, Moscow, ID
Designer/Contractor: Erik Petersen, ZSA Architects & Planners, Chd., 300 Mallard Drive Suite 325, Boise, ID 83706

Additional Efficiency Package(s)
 1-Workshop - Nonresidential 1749

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Floor 1: Slab-On-Grade Unheated, Vertical 2 ft., [Bldg. Use 1 - Workshop] (a)	173	—	10.0	0.540	0.540
Roof 1: Attic Roof with Wood Joists, [Bldg. Use 1 - Workshop]	1009	78.0	0.0	0.013	0.021
Roof Lower East: Attic Roof with Wood Joists, [Bldg. Use 1 - Workshop]	702	71.0	0.0	0.015	0.021
Roof Lower West: Attic Roof with Wood Joists, [Bldg. Use 1 - Workshop]	788	71.0	0.0	0.015	0.021

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
NORTH					
Exterior Wall 1: Wood-Framed, 24" o.c., [Bldg. Use 1 - Workshop]	670	21.0	3.0	0.049	0.051
Door 1: Insulated Metal, Swinging, [Bldg. Use 1 - Workshop]	21	—	—	0.480	0.370
Door 2: Other Door, Garage door 14% glazing, [Bldg. Use 1 - Workshop]	120	—	—	0.130	0.310
Door 4: Other Door, Garage door 14% glazing, [Bldg. Use 1 - Workshop]	80	—	—	0.130	0.310
EAST					
Exterior Wall 2: Wood-Framed, 24" o.c., [Bldg. Use 1 - Workshop]	346	21.0	3.0	0.049	0.051
Window 6: Metal Frame with Thermal Break/Fixed, Perf. Specs., Product ID Migard Suncoat, SHGC 0.27, [Bldg. Use 1 - Workshop] (c)	6	—	—	0.360	0.430
Window 7: Metal Frame with Thermal Break/Fixed, Perf. Specs., Product ID Migard Suncoat, SHGC 0.27, [Bldg. Use 1 - Workshop] (c)	6	—	—	0.360	0.430
Window 8: Metal Frame with Thermal Break/Fixed, Perf. Specs., Product ID Migard Suncoat, SHGC 0.27, [Bldg. Use 1 - Workshop] (c)	6	—	—	0.360	0.430
Window 9: Metal Frame with Thermal Break/Fixed, Perf. Specs., Product ID Migard Suncoat, SHGC 0.27, [Bldg. Use 1 - Workshop] (c)	6	—	—	0.360	0.430

Project Title: UI Rinker Rock Creek Ranch Barn
 Data Filename: S:\2306-0111 Proj Info\Reports\Rinker Rock Creek 4.cck
 Report date: 03/21/24
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Envelope Compliance Statement

Envelope Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Erik Petersen - Designer
 Name: Erik Petersen
 Signature: *Erik Petersen*
 Date: 3 / 21 / 2024

Section # & Req. ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C303.2 [FO4]	Slab edge insulation installed per manufacturer's instructions.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C303.2.1 [FO6]	Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and equipment maintenance activities.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C105 [FO7]	Installed slab-on-grade insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
C402.2.4 [FO7]	Slab edge insulation depth/length. Slab insulation extending away from building is covered by pavement or >= 10 inches of soil.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.

Additional Comments/Assumptions:

Section # & Req. ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.2.4 [ME3]	Stair and elevator shaft vents have motorized dampers that automatically close. Refer to section C403.7.7 for operational details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.7 [ME5B]	Outdoor air and exhaust systems have motorized dampers that automatically close when not in use and meet maximum leakage rates. Check gravity dampers where allowed. Reference section language for operational details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

Section # & Req. ID	Insulation Inspection	Complies?	Comments/Assumptions
C303.1 [IN3]	Roof insulation installed per manufacturer's instructions. Blown or poured loose-fill insulation is installed only where the roof slope is <= 3 in 12.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C402.2.1 [IN20]	Insulation installed on a suspended ceiling having ceiling tiles is not being specified for roofing assemblies. Continuous insulation board installed in 2 or more layers with edge joints offset between layers.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C303.1 [IN10]	Building envelope insulation is labeled with R-value or insulation certificate providing R-value and other relevant data.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C303.2 [IN7]	Above-grade wall insulation installed per manufacturer's instructions.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C303.2.1 [IN4]	Exterior insulation is protected from damage with a protective material. Verification for exposed foundation insulation may need to occur during Foundation Inspection.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C105 [IN6]	Installed above-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
C402.2.3 [IN8]	Installed floor insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
C402.2.6 [IN18]	Radiant panels and associated components designed for heat transfer from the panel surfaces to the occupants or indoor spaces are insulated with a minimum of R-5.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C105 [IN2]	Installed roof insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. For some ceiling systems, verification may need to occur during Framing Inspection.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
C402.5.1 [IN1]	All sources of air leakage in the building thermal envelope are sealed, caulked, gasketed, weather stripped or wrapped with moisture vapor-permeable wrapping material to minimize air leakage.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

Section # & Req. ID	Final Inspection	Complies?	Comments/Assumptions
C402.5.6 [F137]	Weatherstrials installed on all loading dock cargo door openings and provide direct contact along the top and sides of vehicles parked in the doorway.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C402.5.8 [F267]	Recessed luminaires in thermal envelope to limit infiltration and be IC rated and labeled. Seal between interior finish and luminaire housing.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C406.9 [F66]	Reduced air infiltration. Air infiltration verified by whole building pressurization testing conducted in accordance with ASTM E779 or ASTM E1827 by an independent third party. The measured air leakage rate of the building envelope is <= 0.25 cfm/ft2 under a pressure differential of 0.3 inches water column, with the calculated surface area being the sum of the above- and below-grade building envelope. Comprehensive report documentation will be submitted to the code official and the building owner.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.1.1 [F97]	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturer's information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
SOUTH					
Exterior Wall 3: Wood-Framed, 24" o.c., [Bldg. Use 1 - Workshop]	670	21.0	3.0	0.049	0.051
Door 3: Other Door, Garage door 14% glazing, [Bldg. Use 1 - Workshop]	120	—	—	0.130	0.310
WEST					
Exterior Wall 4: Wood-Framed, 24" o.c., [Bldg. Use 1 - Workshop]	346	21.0	3.0	0.049	0.051
Window 3: Metal Frame with Thermal Break/Fixed, Perf. Specs., Product ID Migard Suncoat, SHGC 0.27, [Bldg. Use 1 - Workshop] (c)	6	—	—	0.360	0.430
Window 4: Metal Frame with Thermal Break/Fixed, Perf. Specs., Product ID Migard Suncoat, SHGC 0.27, [Bldg. Use 1 - Workshop] (c)	6	—	—	0.360	0.430
Window 5: Metal Frame with Thermal Break/Fixed, Perf. Specs., Product ID Migard Suncoat, SHGC 0.27, [Bldg. Use 1 - Workshop] (c)	6	—	—	0.360	0.430
Window 6: Metal Frame with Thermal Break/Fixed, Perf. Specs., Product ID Migard Suncoat, SHGC 0.27, [Bldg. Use 1 - Workshop] (c)	6	—	—	0.360	0.430
Exterior Wall 4: Cereatory, Wood-Framed, 24" o.c., [Bldg. Use 1 - Workshop]	128	21.0	3.0	0.049	0.051
Window Cereatory 1: Metal Frame with Thermal Break/Fixed, Perf. Specs., Product ID Migard Suncoat, SHGC 0.27, [Bldg. Use 1 - Workshop] (c)	2	—	—	0.360	0.360
Window Cereatory 2: Metal Frame with Thermal Break/Fixed, Perf. Specs., Product ID Migard Suncoat, SHGC 0.27, [Bldg. Use 1 - Workshop] (c)	2	—	—	0.360	0.360
Window Cereatory 3: Metal Frame with Thermal Break/Fixed, Perf. Specs., Product ID Migard Suncoat, SHGC 0.27, [Bldg. Use 1 - Workshop] (c)	2	—	—	0.360	0.360
Window Cereatory 4: Metal Frame with Thermal Break/Fixed, Perf. Specs., Product ID Migard Suncoat, SHGC 0.27, [Bldg. Use 1 - Workshop] (c)	2	—	—	0.360	0.360
Window Cereatory 5: Metal Frame with Thermal Break/Fixed, Perf. Specs., Product ID Migard Suncoat, SHGC 0.27, [Bldg. Use 1 - Workshop] (c)	2	—	—	0.360	0.360
Window Cereatory 6: Metal Frame with Thermal Break/Fixed, Perf. Specs., Product ID Migard Suncoat, SHGC 0.27, [Bldg. Use 1 - Workshop] (c)	2	—	—	0.360	0.360

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
 (b) Other components require supporting documentation for proposed U-factors.
 (c) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
 (d) Slab-On-Grade proposed and budget U-factors shown in table are R-factors.

Project Title: UI Rinker Rock Creek Ranch Barn
 Data Filename: S:\2306-0111 Proj Info\Reports\Rinker Rock Creek 4.cck
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COMcheck Software Version 4.1.5.5 Inspection Checklist

Energy Code: 2018 IECC

Requirements: 0.0% were addressed directly in the COMcheck software. Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is terminated in a separate table, a reference to that table is provided.

Section # & Req. ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR1]	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C402.4.1 [PR11]	The vertical fenestration area <= 30 percent of the gross above-grade wall area.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
C402.4.3 [PR13]	The building envelope contains a continuous air barrier that is sealed in an approved manner and material permeability <= 0.004 dfm/ft2. Air barrier penetrations are sealed in an approved manner.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
C402.5.1 [PR19]	Factory-built fenestration and doors are labeled as meeting air leakage requirements.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C402.5.2 [PR18]	Factory-built fenestration and doors are labeled as meeting air leakage requirements.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C402.5.7 [PR17]	Verticals are installed on all building entrances. Doors have self-closing devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

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Section # & Req. ID	Framing / Rough-In Inspection	Complies?	Comments/Assumptions
C303.1.3 [FR12]	Fenestration products rated in accordance with NFRC.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C303.1.3 [FR13]	Fenestration products are certified as to performance labels or certificates provided.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C402.4.1 [FR10]	Vertical fenestration SHGC value.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
C402.4.3 [FR8]	Installed vertical fenestration U-factor and SHGC consistent with label specifications and as reported in plans and COMcheck reports.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
C402.5.1 [FR19]	The building envelope contains a continuous air barrier that is sealed in an approved manner and material permeability <= 0.004 dfm/ft2. Air barrier penetrations are sealed in an approved manner.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C402.5.2 [FR18]	Factory-built fenestration and doors are labeled as meeting air leakage requirements.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C402.5.7 [FR17]	Verticals are installed on all building entrances. Doors have self-closing devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

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Section # & Req. ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.6 [EL27]	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.7 [EL27]	Electric motors meet the minimum efficiency requirements of Tables C405.7.1 through C405.7.14.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.8.2 [EL28]	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.9 [EL29]	Total voltage drop across the combination of feeders and branch circuits <= 3%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

Project Title: UI Rinker Rock Creek Ranch Barn
 Data Filename: S:\2306-0111 Proj Info\Reports\Rinker Rock Creek 4.cck
 Report date: 03/21/24
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Section # & Req. ID	Final Inspection	Complies?	Comments/Assumptions
C402.5.6 [F137]	Weatherstrials installed on all loading dock cargo door openings and provide direct contact along the top and sides of vehicles parked in the doorway.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C402.5.8 [F267]	Recessed luminaires in thermal envelope to limit infiltration and be IC rated and labeled. Seal between interior finish and luminaire housing.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C406.9 [F66]	Reduced air infiltration. Air infiltration verified by whole building pressurization testing conducted in accordance with ASTM E779 or ASTM E1827 by an independent third party. The measured air leakage rate of the building envelope is <= 0.25 cfm/ft2 under a pressure differential of 0.3 inches water column, with the calculated surface area being the sum of the above- and below-grade building envelope. Comprehensive report documentation will be submitted to the code official and the building owner.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.1.1 [F97]	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturer's information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

Project Title: UI Rinker Rock Creek Ranch Barn
 Data Filename: S:\2306-0111 Proj Info\Reports\Rinker Rock Creek 4.cck
 Report date: 03/21/24
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REVISIONS



Architects and Planners, Chartered
 300 E. Mallard Drive, Suite 325, Boise, Idaho 83706

UNIVERSITY OF IDAHO
 RINKER ROCK CREEK RANCH BARN REMODEL
 FAIRFIELD, IDAHO 83327

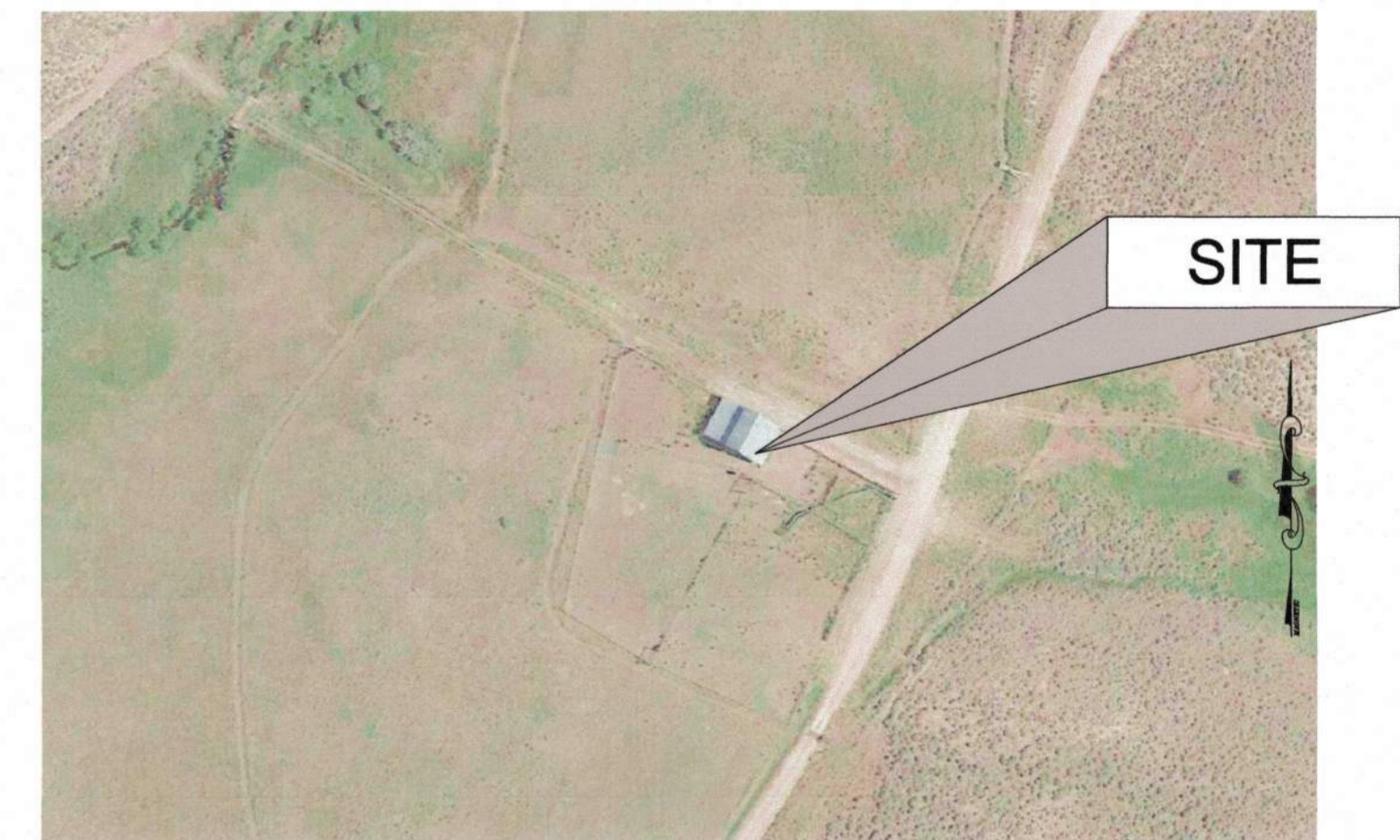
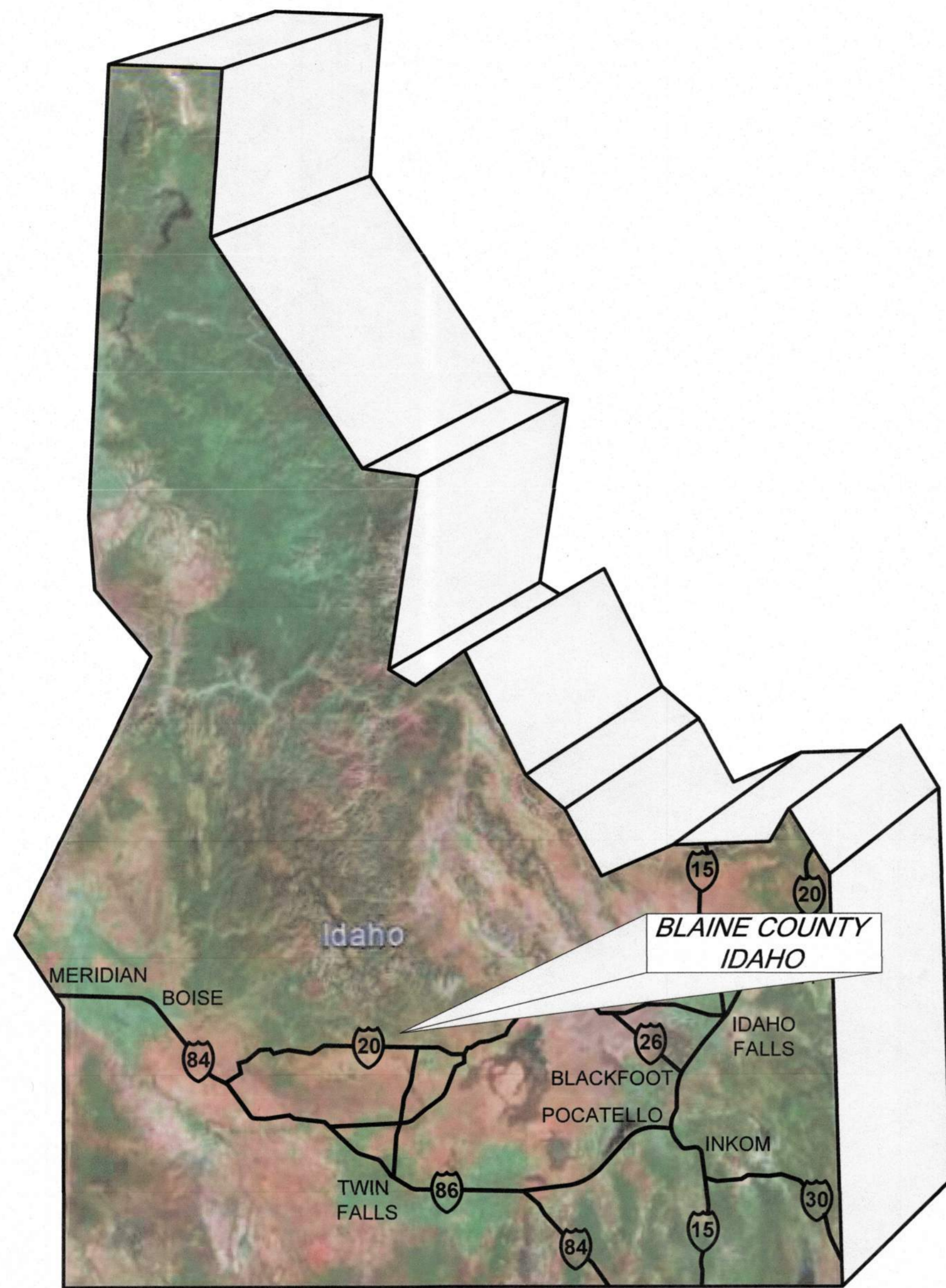
DATE: 3/29/2024
 PROJECT NO: 2306.01
 SHEET:
G003
 ENERGY COMPLIANCE

CONSTRUCTION DRAWINGS FOR:
ROCK CREEK RANCH

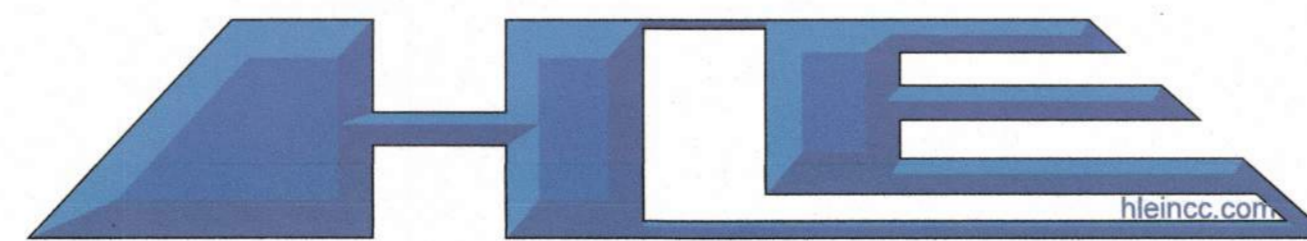
(SEC. 26, T. 1 N., R. 17 E., B.M.)
BLAINE COUNTY, IDAHO
APRIL 2024

INDEX TO PLAN SHEETS

- SHEET 1 COVER SHEET
- SHEET 2 GENERAL NOTES / TESTING SHEET
- SHEET 3 GENERAL LAYOUT / GRADING SHEET
- SHEET 4 BEST MANAGEMENT PRACTICES



PROJECT LOCATION



CIVIL & STRUCTURAL ENGINEERING
MATERIALS TESTING & LAND SURVEYING
101 S. Park Avenue, Idaho Falls, ID 83402, (208)524-0212
800 W. Judicial Street, Blackfoot, ID 83221, (208)785-2977



GENERAL NOTES

- All materials, workmanship, and construction of site improvements shall meet or exceed the work standards and specifications set forth by BLAINE COUNTY and/or requirements of the Idaho Standards for Public Works Construction, (ISPWC) current edition.
- All material furnished on or for the project must meet the minimum requirements of the approving agencies or as set forth herein, whichever is more restrictive.
- The Contractor is cautioned that the location and/or elevation of existing utilities, as shown on these plans, is based on records of the various utility companies and where possible, measurements taken in the field. The Contractor must call the local utility location center at least 10 days before any excavation to request exact field locations of the utilities.
- A Pre-Construction Conference shall be held a minimum of three (3) working days prior to start of work. All Contractors, Subcontractors and/or Utility Contractors shall be present. Provide a traffic control plan in accordance with MUTCD to Harper - Leavitt Engineering for review and approval
- All lot dimensions and easements are to be taken from the Final Plat of the recorded subdivision plat.
- The Contractor shall maintain all existing drainage facilities within the construction area until the drainage improvements are in place and functioning.
- All Contractors working within the project boundaries are responsible for compliance with all applicable safety laws of any jurisdictional body including but not limited to, barricades, safety devices, control of traffic, excavation, trenching, shoring, and security within and around the construction area.
- Contractors must furnish proof that all materials installed on this project meet the requirements of Note # 2 above at the request of the agency and/or Engineer.
- HARPER-LEAVITT ENGINEERING must give approval prior to (a) backfilling trenches for pipe; (b) subgraded compactions; (c) placing of aggregate base; (d) placing of concrete; (e) placing of asphalt pavement. Work done without such approval shall not relieve the Contractor from the responsibility of performing the work in an acceptable manner. Contract work will not be accepted by BLAINE COUNTY without the approval of the Project Engineer.
- Inspection SHALL be conducted by BLAINE COUNTY, Public Works Inspector on all work performed within the public road right-of-way. Forty-eight (48) hours notice shall be given prior to any construction and inspection.
- Developmental drawings must be submitted to the BLAINE COUNTY Public Works Dept. prior to final approval.
- Only plan sets marked "Approved for Construction" shall be used by the project contractor(s). Use of any plans on the job without the "Approved of Construction" stamp shall be grounds for the issuance of a stop work order. Contractor must also maintain a set of plans stamped with approval by the Department of Environmental Quality on site.
- Each Contractor shall be responsible for acquiring any necessary IPDES permits, filing any NOI's or NOT's, and preparing a Storm Water Pollution Prevention Plan (SWPPP) in accordance with the Idaho Department of Environmental Quality (IDEQ). www2.deq.idaho.gov/water/IPDES. Contact the appropriate DEQ regional office for the required information. Said permit shall be presented to the Engineer at least forty-eight (48) hours prior to the beginning of construction.
- The Contractor shall be responsible for keeping roadways free and clear of all construction debris and dirt tracked in from the site.
- All measures possible shall be taken to ensure erosion control with Best Management Practices.
- Quantities shown are estimates by the Engineer. The Contractor must verify all quantities. If there is a large discrepancy contact the Engineer.
- All work must meet standards set forth by the American Disabilities Act (ADA).
- Trench backfill Type 2A compaction "Water Settling" will not be an acceptable method of trench backfill compaction.
- All water valves, blow-offs and manholes will be placed so as not to conflict with any concrete curb, gutter, valley gutter, and sidewalk improvements.
- Harper-Leavitt Engineering and/or Inspector shall make periodic visits to the project location to ensure that the site improvements meet or exceed standards and design as per the approved construction drawings.
- To receive final acceptance, Contractor must submit copy of field plans complete with construction notes and As-Built information, corrections, changes, etc.
- Contractor must have ISPWC Manual (current edition) on-site during all phases of construction. Failure to do so may result in non-acceptance of the site by DEQ, Engineer, City, etc.
- A copy of the Quality Control Signature sheet (with all applicable signatures) shall be delivered to HLE prior to the walk-thru.

NOTES:

- Quality control testing must be performed to ensure that all construction methods and materials are in accordance with ISPWC standards.
- The testing also aids the Project Engineer and appropriate governing body (i.e. city, county, etc.) in the process of certification and final acceptance of the development.
- Completion of this form will signify the preliminary acceptance by the Project Engineer and recommendation of the proposed development for final approval. Ultimately, final approval is at the discretion of the governing body of the proposed development (i.e. city, county, etc.)
- Failure to perform required testing and/or to receive initialization from Project Engineer will result in non-acceptance of the the development.
- Contractor assumes responsibility to contact Project Engineer 24 hours prior to required testing. Should scheduling conflicts arise due to failure to provide sufficient notice, said Contractor must reschedule at his/her own cost.

LEGEND

DESCRIPTION	EXISTING	PROPOSED
CENTERLINE	---	---
RIGHT OF WAY LINE	--- RW ---	--- ROW ---
EASEMENT LINE	---	---
CONTOUR	--- 4500 ---	--- 4500 ---
FENCE	--- X X X X ---	--- X X X X ---
WATERLINE	--- 8" W ---	--- 8" W ---
SANITARY SEWER	--- 8" SS ---	--- 8" SS ---
STORM SEWER	--- 12" SD ---	--- 12" SD ---
IRRIGATION	--- 2" I ---	--- 2" I ---
POWER LINE UG	--- UGP ---	--- UGP ---
POWER LINE OH	--- UGP ---	--- UGP ---
GAS LINE	--- GAS ---	--- GAS ---
CABLE LINE	--- CATV ---	--- CATV ---
FIBER OPTIC	--- FO ---	--- FO ---
TELEPHONE LINE	--- T ---	--- T ---
ASPHALT	--- EO --- EO ---	--- EO --- EO ---
CURB	---	---
SANITARY MANHOLE	⊙	⊙
SEWER CLEANOUT	⊙	⊙
SANITARY SERVICE	--- SS --- SS --- SS ---	--- SS --- SS --- SS ---
STORM MANHOLE	⊙	⊙
CATCH BASIN	⊙	⊙
FIRE HYDRANT	⊙	⊙
WATER VALVE	⊙	⊙
WATER SERVICEMETER	⊙	⊙
POWER POLE	⊙	⊙
GUY POLE	→	→
LIGHT POLE	⊙	⊙
STREET LIGHT	⊙	⊙
ELEC TRANSFORMER	⊙	⊙
ELECTRIC PEDESTAL	⊙	⊙
TELEPHONE PEDESTAL	⊙	⊙
CABLE PEDESTAL	⊙	⊙
FIBER OPTIC PEDESTAL	⊙	⊙
SIGN	+	+
TREE	⊙	⊙

CONTACTS:

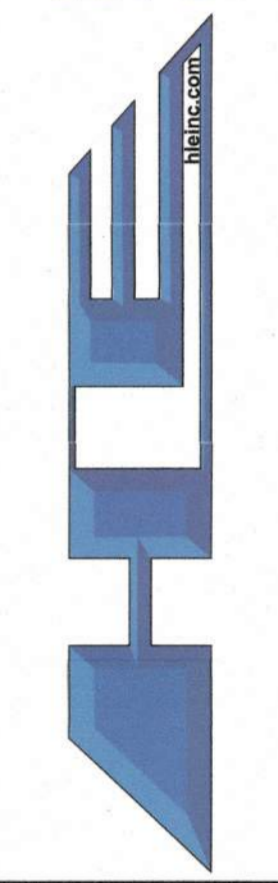
DEVELOPER
UNIVERSITY OF IDAHO

DEPARTMENT OF ENVIRONMENTAL QUALITY
650 ADDISON AVENUE WEST, SUITE 210
TWIN FALLS, IDAHO 83301
(208) 270-1663

CIVIL ENGINEER
HLE, INC.
DARYL KOFOED, P.E.
101 S PARK AVE #210
IDAHO FALLS, IDAHO 83402
(208) 524-0212



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MS	MS DK
JOB NO: 2023-613	
DATE: APRIL 2024	
REVISIONS	DATE

GENERAL NOTES / TESTING SHEET

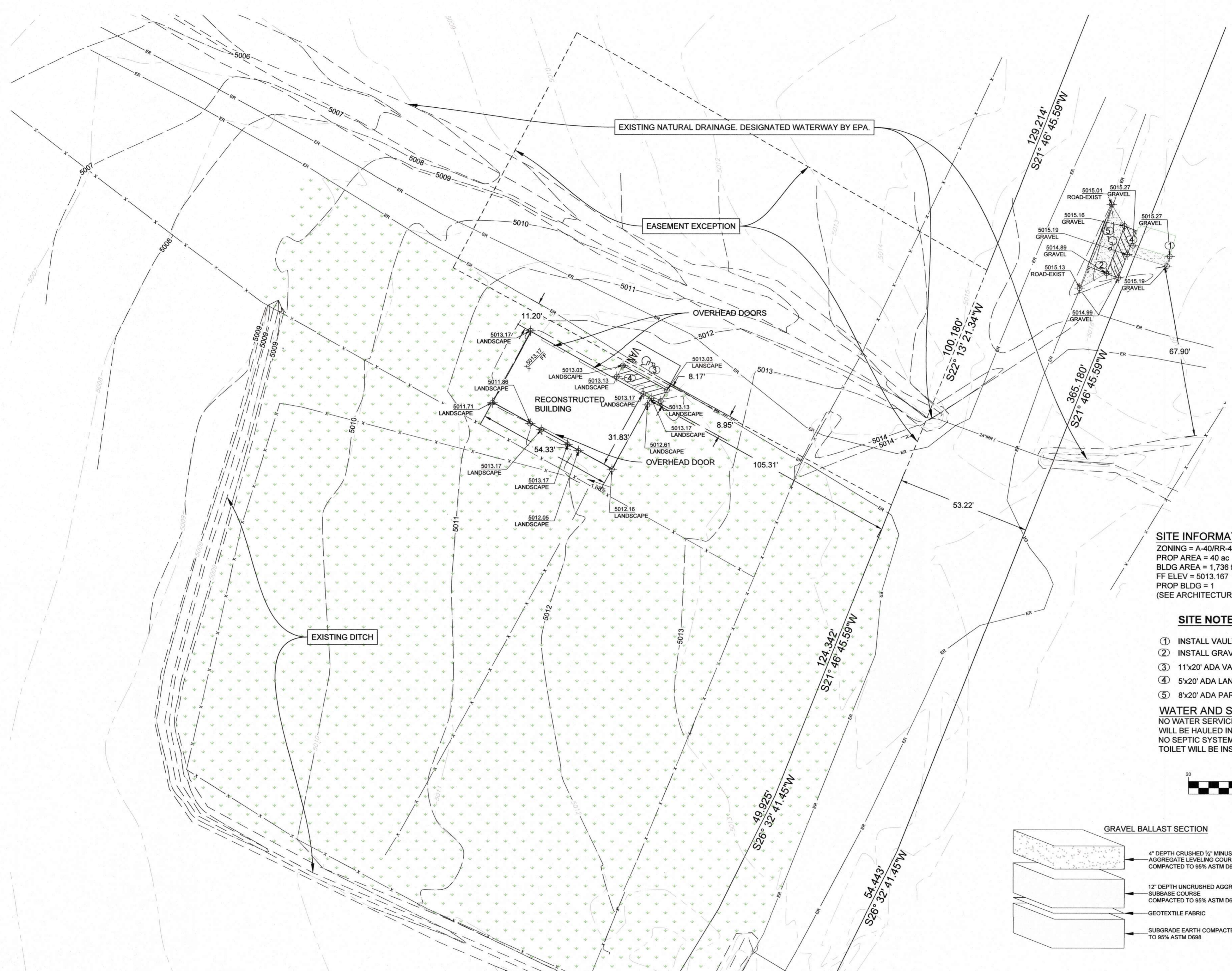
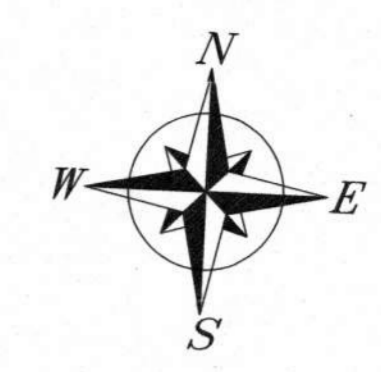
ROCK CREEK RANCH

BLAINE COUNTY, IDAHO

SHEET NO. 2 OF 4 SHEETS

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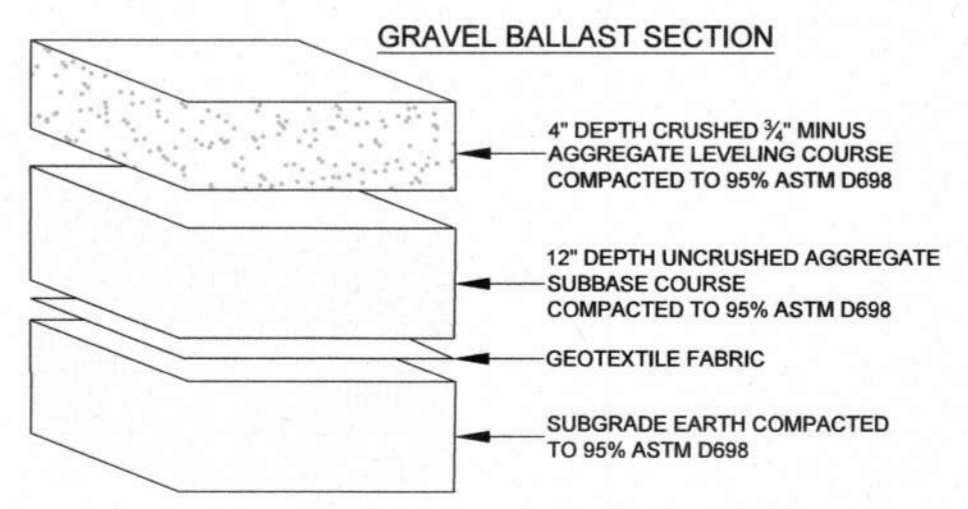
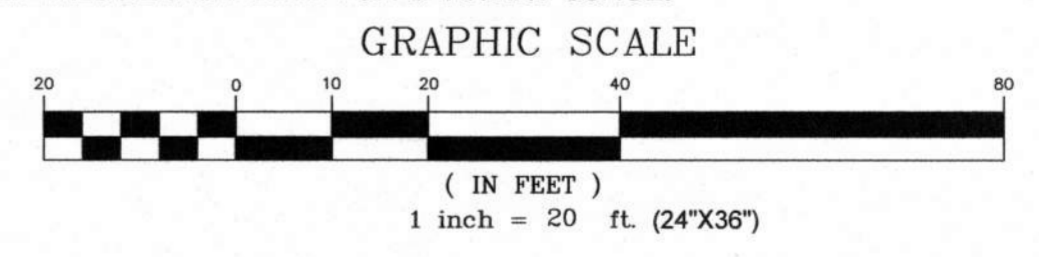
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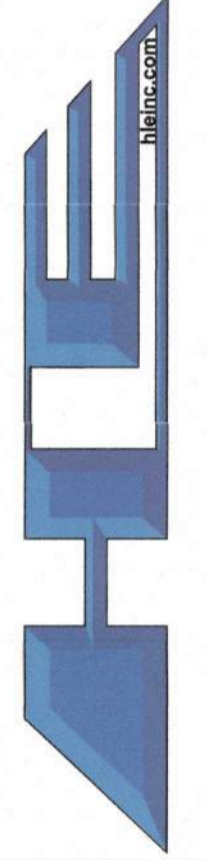
SITE INFORMATION
 ZONING = A-40/RR-40
 PROP AREA = 40 ac
 BLDG AREA = 1,736 ft²
 FF ELEV = 5013.167
 PROP BLDG = 1
 (SEE ARCHITECTURAL PLANS FOR DETAILS)

GRADING NOTE:
 CONTRACTOR TO PROVIDE 0.50%
 MIN. SLOPE ON ALL UNCOVERED
 CONCRETE PADS TO DRAIN
 AWAY FROM BUILDINGS.

- SITE NOTES:**
- ① INSTALL VAULTED TOILET. SEE ARCHITECTURAL PLANS FOR DETAILS.
 - ② INSTALL GRAVEL BALLAST PER DETAIL ON GRADING SHEET
 - ③ 11'x20' ADA VAN PARKING STALL
 - ④ 5'x20' ADA LANDING
 - ⑤ 8'x20' ADA PARKING STALL
- WATER AND SEWER NOTE**
 NO WATER SERVICE OR WELL PROVIDED ON SITE. WATER
 WILL BE HAULED INTO SITE AS NEEDED.
 NO SEPTIC SYSTEM WILL BE PROVIDED ON SITE. VAULTED
 TOILET WILL BE INSTALLED FOR SANITARY USAGE.



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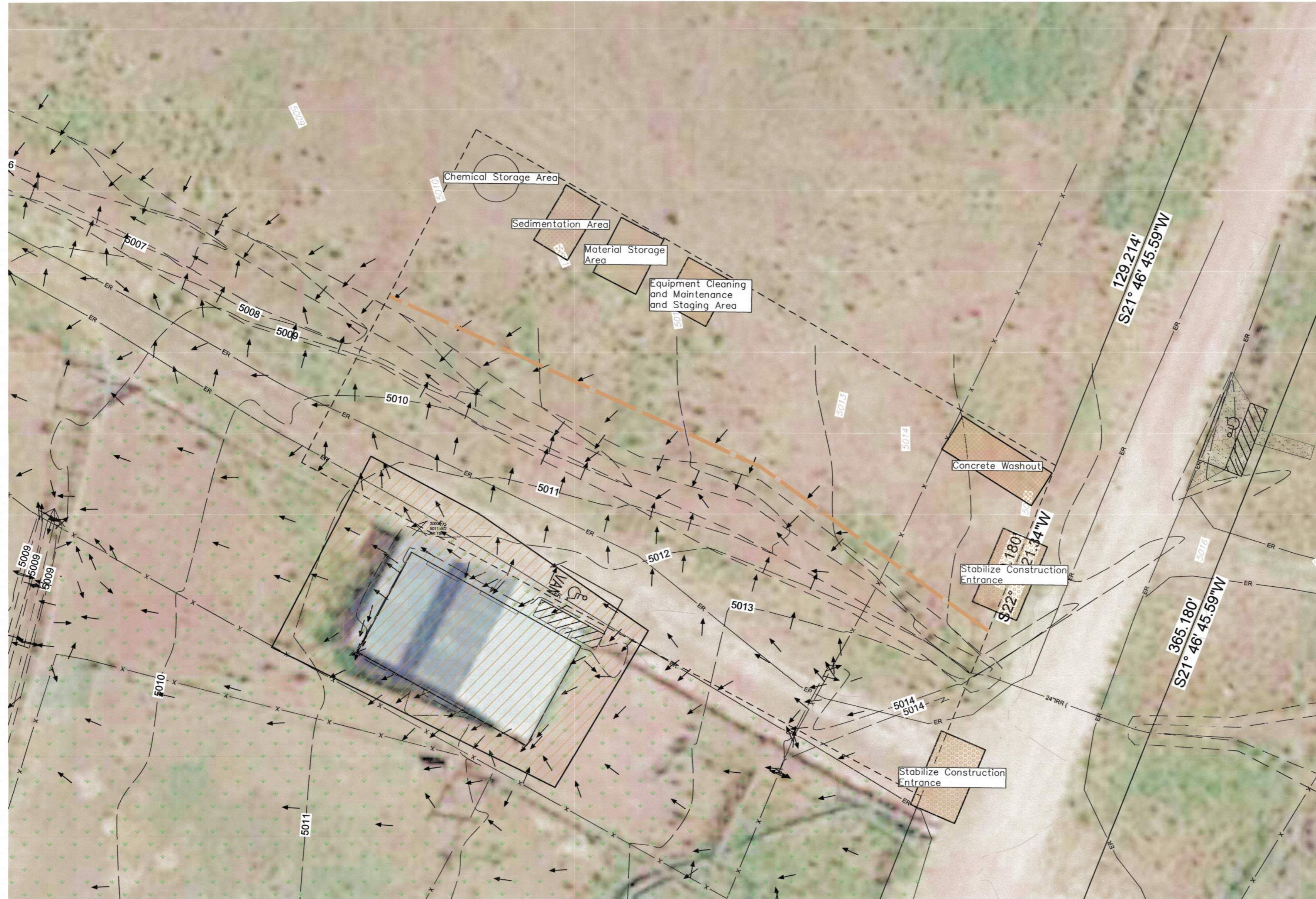


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GRADING PLAN
ROCK CREEK RANCH
 BLAINE COUNTY, IDAHO

SHEET NO. **3**
 OF SHEETS **4**

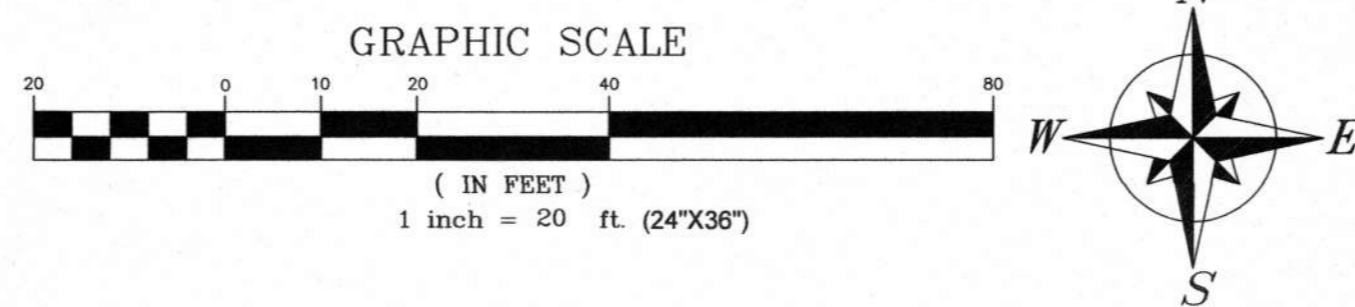
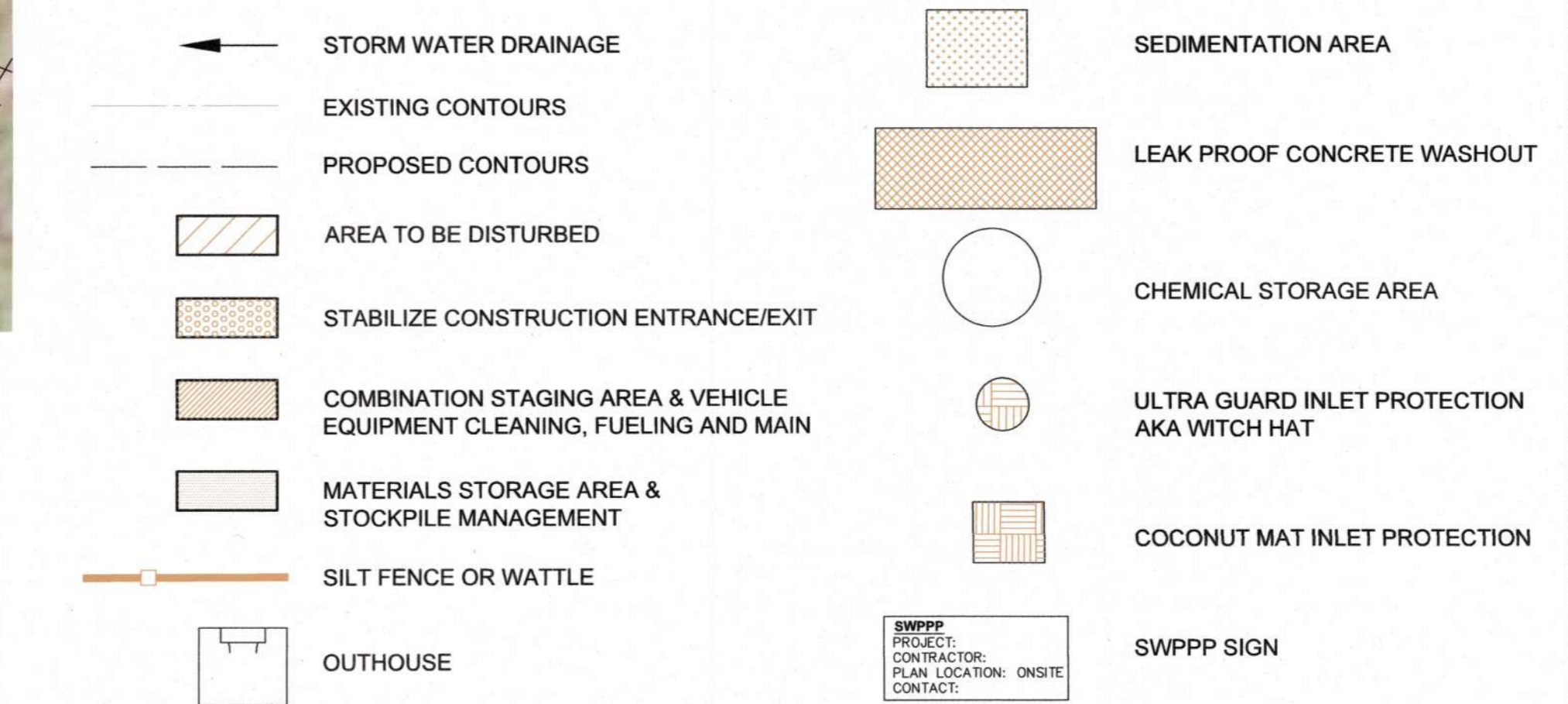


BEST MANAGEMENT PRACTICES NOTES

1. This plan should be revised and updated to address changes in site conditions, new or revised government regulations, and additional on-site storm water pollution. Additional erosion control measures may be required.
2. All revisions to this plan must be documented on the SWPPP Revision Documentation Form.
3. Current versions of the SWPPP, the NOI, and the NOC will be kept on site for the duration of the project. These items will be available for the use of all operators and site personal involved with erosion and sediment controls, and be available to EPA visiting the site. A notice will be posted near the construction entrance during construction, containing the SWPPP, the NOI and the NOC.
4. Fugitive dust blowing from the site shall be controlled by spraying water and dust control polymers as needed on dry areas of the site.
5. The contractor will be responsible for supervision and inspection of all erosion and sedimentation controls and for ensuring the SWPPP is implemented.
6. Prior to beginning earth-moving activities, including clearing and grubbing, all clearing limits, easements, setbacks, sensitive areas and their buffers will be clearly marked to prevent environmental damage both on and off the site.
7. If sediment is accidentally transported on to the street it will be removed from the street surface on a daily basis.
8. All off-site construction shall be stabilized at the end of the working day.
9. All waste material will be collected and stored in a securely lidded dumpster. The dumpster will meet all local and state solid water management regulations.
10. Portable sanitary units will be provided for use by all workers for the entire project. Sanitary waste will be collected regularly for the portable units by an approved sanitary waste management contractor.
11. All exposed soils will be stabilized with vegetation or covered no more than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased.
12. Existing and new vegetation will be maintained to the maximum extent practicable to prevent the contamination of storm water with sediment.
13. The contractor shall be responsible for adjusting the erosion control measure, due to grade changes during the development of the project.
14. Maintain on the site or have readily available sufficient oil and grease absorbing materials to contain and clean up fuel or chemical spills and leaks.
15. Adequate energy dissipation, erosion control, and soil stabilization measures will be provided for all point source discharges of storm water, including run-on discharges and outlets for onsite discharges.
16. Temporary and permanent swells and small detention ponds will be used as necessary to reduce the velocity of runoff and enhance particle settling.
17. Consistent with the general permit requirements, all potential pollutants other than sediment will be handled and disposed of in a manner that does not affect contamination of stormwater.
18. Materials used during construction with the potential to impact storm water, will be stored, managed, used, and disposed of in a manner that minimizes the potential for releases to the environment and especially in the storm water.
19. If a spill of pollutants threatens storm water at the site, the spill response procedures must be implemented in a timely manner to prevent the release of pollutants.
20. All temporary and permanent erosion and sediment control BMPs will be maintained and repaired as needed to assure continued performance of their intended use.
21. All temporary erosion control and sediment control BMPs will be removed within 30 days after final site stabilization is achieved or after the temporary BMPs are no longer needed.
22. Regardless of recommended maintenance schedule, all control measures and inspections shall be performed within 24 hours following any storm of 0.25 inches or greater. An inspection report shall be kept at all times and should be retained for at least three (3) years from the date the site is stabilized.
23. All contractors providing services on the project which may cause storm water pollution will be given a copy of the SWPPP and appropriate training regarding stormwater pollution prevention.

NOTE:

1. AFTER ASPHALT PAVING HAS TAKEN PLACE STORM WATER DEVELOPED WILL BE DIRECTED TO DRAINAGE SWALES PER THE APPROVED SITE PLAN AND PERCOLATE IN DESIGNATED AREAS
2. INLET PROTECTION TO BE PLACED ON ALL STORM DRAIN INLETS AFTER INSTALLATION THROUGH THE DURATION OF THE PROJECT



OFFSITE OPERATIONS	
START DATE	END DATE

TO BE FILLED OUT BY CONTRACTOR

SEQUENCE OF MAJOR ACTIVITIES		
ACTIVITY	START DATE	END DATE

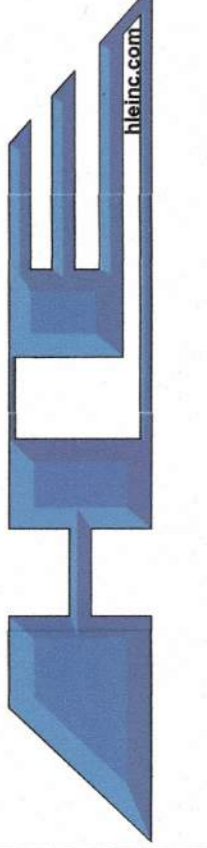
TO BE FILLED OUT BY CONTRACTOR

POTENTIAL POLLUTANTS		
CHEMICAL	MSDS #	LOCATION

TO BE FILLED OUT BY CONTRACTOR



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JOB NO: 2023-613		
DATE: APRIL 2024		
REVISIONS		DATE

BEST MANAGEMENT PRACTICES
 ROCK CREEK RANCH
 BLAINE COUNTY, IDAHO

SHEET NO. 4 OF 4 SHEETS

GENERAL STRUCTURAL NOTES (G.S.N.)

GENERAL

THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE ARCHITECT & STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY. THESE STRUCTURAL DRAWINGS ARE INTENDED TO PRESENT SUFFICIENT DIMENSIONS TO INDICATE MAJOR PLAN SIZES AND TO LOCATE PRIMARY STRUCTURAL COMPONENTS.

SHOP DRAWINGS

SHOP DRAWINGS ARE TO BE CHECKED AND APPROVED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTING FOR STRUCTURAL REVIEW. ANY REQUEST FOR MODIFICATION TO THE DRAWINGS MUST BE SUBMITTED IN WRITING. THIS MAY BE ACCOMPLISHED THROUGH THE SHOP DRAWINGS ONLY IF THE CHANGE IS CLEARLY REPRESENTED, CLOUDED AND NOTED AS BEING A REQUESTED CHANGE REQUIRING THE STRUCTURAL ENGINEER APPROVAL.

SHOP DRAWINGS SHALL INCLUDE PLANS AND DETAILS AS NECESSARY TO INDICATE UNDERSTANDING OF THE CONTRACT DOCUMENTS. ENSURE ADEQUATE COPIES OF SHOP DRAWINGS ARE SUBMITTED FOR THE CONTRACTOR, ARCHITECT, AND STRUCTURAL ENGINEER TO RETAIN ONE COPY EACH FOR THEIR FILES.

- SHOP DRAWINGS ARE REQUIRED FOR THE FOLLOWING:
* CONCRETE REINFORCING
* PRE-FABRICATED WOOD ROOF TRUSSES

INFORMATIONAL SUBMITTALS

SUBMITTALS ARE TO BE CHECKED AND APPROVED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTING FOR STRUCTURAL REVIEW. SUBMITTALS SHALL INCLUDE CURRENT PRODUCT ICC/AMPO REPORTS WHERE APPLICABLE AND INDICATED LOCATIONS OF USAGE FOR THE PRODUCT. ENSURE ADEQUATE COPIES OF SUBMITTALS ARE SUBMITTED FOR THE CONTRACTOR, ARCHITECT, AND STRUCTURAL ENGINEER TO RETAIN ONE COPY EACH FOR THEIR FILES.

- INFORMATIONAL SUBMITTALS ARE REQUIRED FOR THE FOLLOWING:
* CONCRETE MIX DESIGN

PRODUCT AND MATERIAL SUBSTITUTIONS

PRODUCTS AND MATERIALS ARE TO BE AS SPECIFIED IN THE CONTRACT DOCUMENTS. SUBSTITUTIONS ARE NOT PERMITTED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER AND ARCHITECT.

DESIGN LOADS

Table with 2 columns: Parameter and Value. Includes: ROOF LIVE LOAD (20 PSF), GROUND SNOW LOAD (79 PSF), FLAT-ROOF SNOW LOAD (50 PSF), SNOW EXPOSURE FACTOR (0.9), IMPORTANCE FACTOR (1.0), THERMAL FACTOR (1.1), RISK CATEGORY PER IBC (II), BASIC WIND SPEED (103 MPH), etc.

FOUNDATION

DESIGN ALLOWABLE SOIL BEARING PRESSURE = 2,000 PSF PER GEOTECHNICAL REPORT BY HLE, INC. BOTTOM OF ALL FOOTINGS TO BEAR ON COMPETENT, NATIVE, INORGANIC, UNDISTURBED SOIL 1'-0" MINIMUM BELOW EXISTING GRADE OR COMPACTED STRUCTURAL FILL.

CAST-IN-PLACE CONCRETE

FOOTINGS:

- * ATTAIN THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS: 3000 PSI (2500 PSI USED FOR DESIGN)
* MAXIMUM SLUMP: 3" +/- 1"
* MAXIMUM W/C RATIO: 0.50
* AIR ENTRAINMENT: NO REQUIREMENT
* MAXIMUM AGGREGATE SIZE: 3/4"

INTERIOR CONCRETE SLABS:

- * ATTAIN THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS: 4000 PSI (2500 PSI USED FOR DESIGN)
* MAXIMUM SLUMP: 4" +/- 1"
* MAXIMUM W/C RATIO: 0.45
* AIR ENTRAINMENT: 0%
* MAXIMUM AGGREGATE SIZE: 3/4"

FOUNDATION WALLS, PIERS, & EXPOSED CONCRETE SLABS:

- * ATTAIN THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS: 4500 PSI
* MAXIMUM SLUMP: 4" +/- 1"
* MAXIMUM W/C RATIO: 0.45
* AIR ENTRAINMENT: 6% +/- 1%
* MAXIMUM AGGREGATE SIZE: 3/4"

CONSTRUCTION TO BE IN ACCORDANCE WITH ACI 318-19. REFER TO ACI 302.1R-04 FOR SLAB ON GRADE MIX DESIGN. LOCATION OF CONSTRUCTION OR POUR JOINTS MUST BE APPROVED BY THE STRUCTURAL ENGINEER IF DIFFERENT FROM THAT SHOWN ON PLANS.

REINFORCING STEEL

WELDED WIRE REINFORCING: ASTM A82 AND A185. DEFORMED BARS: ASTM A615, GRADE 40 FOR #3; GRADE 60 FOR #4 & LARGER; ASTM A706 FOR WELDED CONDITIONS.

LAP SPLICES (HORIZONTAL AND VERTICAL STEEL)

- * CONCRETE: 40-BAR DIA. FOR #6 & SMALLER.

WELDED WIRE FABRIC SPLICES: WIRE SPACING + 2".

CONCRETE COVER: UNLESS OTHERWISE NOTED ON THESE DRAWINGS, UTILIZE THE FOLLOWING CLEAR EMBEDMENT AT REINFORCING BARS VALUES FOR CAST-IN-PLACE, NON-PRE-STRESSED CONCRETE TYPICALLY:

CONCRETE CAST AGAINST SOIL = 3". FORMED CONCRETE EXPOSED TO EARTH OR WEATHER = 2". SLAB ON GRADE = 1-1/2".

SECURELY TIE ALL REINFORCING IN PLACE WITH DOUBLE ANNEALED 16-GAUGE IRON WIRE OR APPROVED CLIPS. SUBMIT SHOP DRAWINGS OF REINFORCING STEEL FOR REVIEW BY THE ARCHITECT & STRUCTURAL ENGINEER PRIOR TO FABRICATION.

EPOXY

CONCRETE: SIMPSON 'AT-XP' OR HILTI 'HIT-RE 500'

STRUCTURAL AND MISC. STEEL

CHANNELS, ANGLES, PLATES AND BARS: ASTM A36, Fy = 36 KSI MINIMUM.

PIPE: ASTM A53 OR A501, Fy = 35 KSI MINIMUM.

BOLTS: ASTM A307 MACHINE BOLTS (M.B.). WHERE AN OVERSIZED OR SHORT SLOTTED HOLE OCCURS IN AN OUTER PLY OF ANY CONNECTION, A HARDENED WASHER SHALL BE USED.

ANCHOR BOLTS (A.B.): ASTM F1554, GRADE 36 KSI. PROVIDE DOUBLE NUT FOR LEVELING AT COLUMNS OR BEAM BASE PLATES.

MECHANICAL BOLTS: IN CONCRETE AND GROUTED MASONRY, SIMPSON 'STRONG-BOLT 2' (ESR-3037, ER-240) OR 'TITEN HD' (ESR-2713, ESR-1056) OR APPROVED EQUIVALENT

EPOXY ANCHORS: CARBON STEEL THREADED ANCHOR RODS CONFORMING TO ASTM A307 GRADE C, OR ASTM A193 GRADE B7, OR STAINLESS STEEL THREADED ANCHOR RODS CONFORMING TO ASTM F593, ALLOY GROUP 1, TYPE 304, CONDITION CW. INSTALL RODS USING APPROPRIATE EPOXY ADHESIVE FOR THE BASE MATERIAL ACCORDING TO THE 'GROUT AND EPOXY ADHESIVE' SECTION ABOVE.

POWDER DRIVEN FASTENERS (PDF): FOR ATTACHMENT TO CONCRETE AND STRUCTURAL STEEL, 0.157"Ø SIMPSON 'PDPA' (ESR 2138) OR APPROVED EQUIVALENT.

WOOD

GENERAL: ALL WOOD BEARING DIRECTLY ON CONCRETE OR MASONRY, IF LESS THAN 4'-0" ABOVE GRADE, SHALL BE PRESSURE TREATED DOUGLAS FIR. STRUCTURAL MEMBERS SHALL NOT BE CUT FOR PIPES, ETC., UNLESS SPECIFICALLY NOTED OR DETAILED.

SAWN LUMBER: NO. 2 & BETTER DOUGLAS FIR-LARCH, WWPA GRADING RULES.

SHEATHING: APA RATED SHEATHING, APA RATED STURD-I-FLOOR, EXPOSURE-1, NER-108.

GLU-LAMINATED MEMBERS: 24F-V4. GLU-LAMINATED MEMBERS SHALL CONFORM TO THE LATEST EDITION AITC 117, "DESIGN STANDARD SPECIFICATIONS FOR STRUCTURAL GLUED LAMINATED TIMBER OF SOFTWOOD SPECIES." SHOP DRAWINGS OF GLU-LAMINATED MEMBERS TO BE SUBMITTED FOR REVIEW BY THE STRUCTURAL ENGINEER PRIOR TO FABRICATION.

FRAMING ANCHORS AND CONNECTORS: "SIMPSON STRONG TIE" OR USP PRODUCT THAT MEETS OR EXCEEDS SIMPSON PRODUCTS OR APPROVED EQUIVALENT AS INDICATED ON DRAWINGS. INSTALL AND CONNECT PER MANUFACTURER'S REQUIREMENTS.

NAIL GUNS: ALL NAILED ROOF OR FLOOR DIAPHRAGMS AND SHEAR WALLS ARE DESIGNED USING ALLOWABLE IBC SHEAR VALUES WHICH ARE BASED ON CONVENTIONAL COMMON NAIL SIZES. USE OF PNEUMATIC NAIL GUNS OR STAPLES IS ACCEPTABLE ONLY WITH ENGINEER APPROVAL OF TYPE OF FASTENER AND SPACING IN ORDER TO MEET INTENDED DESIGN LOADS. FOR NAILING NOT SHOWN ON DRAWINGS, USE IBC FASTENING SCHEDULE, TABLE 2304.9.1.

FASTENERS IN CONTACT WITH PRESSURE PRESERVATIVE-TREATED (PPT) AND FIRE-RETARDANT-TREATED WOOD ARE TO BE HOT-DIPPED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. CONNECTIONS SHOULD NOT INCORPORATE DISSIMILAR METALS OR METALLIC COATINGS IN CONTACT WITH EACH OTHER. PRODUCTS IN WHICH THE COATINGS HAVE BEEN DAMAGED OR COMPROMISED DURING SHIPPING, STORAGE OR INSTALLATION SHOULD BE DISCARDED OR OTHERWISE EFFECTIVELY RESTORED (IBC SECTION 2304.9.5, IRC SECTION R317.3).

PRE-FABRICATED WOOD TRUSSES

ROOF TRUSSES:

MAXIMUM TRUSS SPACING: 24' O.C. TRUSS LOADING UNLESS NOTED OTHERWISE ON DRAWINGS:

Table with 3 columns: Load Type, Value, and Unit. Includes: TOP CHORD LIVE LOAD (L) = 20 PSF, TOP CHORD SNOW LOAD (S) = 50 PSF, TOP CHORD DEAD LOAD (D) = 9.0 PSF, BOTTOM CHORD LIVE LOAD (L) = 10 PSF, BOTTOM CHORD DEAD LOAD (D) = 9.0 PSF, WIND [STRENGTH] (W) = +/-34 PSF.

NOTE: LIVE LOADS ARE NOT CONCURRENT.

PROPRIETARY PRODUCTS

PRE-MANUFACTURED WOOD I-JOISTS, BEAMS, AND TRUSSES SHALL HAVE ICC-ESI/AMPO ES ACCEPTANCE, AND BE OF THE SAME DEPTHS AND SPACING AS NOTED ON THE FRAMING PLANS. THE DESIGN LOAD CARRYING CAPACITIES OF THE PRODUCTS SUPPLIED MUST BE EQUAL TO OR GREATER THAN THE MANUFACTURER'S PUBLISHED LOAD TABLES. INSTALL THE PRODUCT PER MANUFACTURER'S RECOMMENDATIONS. SUBMIT SHOP DRAWINGS OF LAYOUT AND REQUIRED CONNECTION DETAILS FOR REVIEW BY THE ARCHITECT & STRUCTURAL ENGINEER PRIOR TO FABRICATION.

DEFERRED SUBMITTAL ITEMS

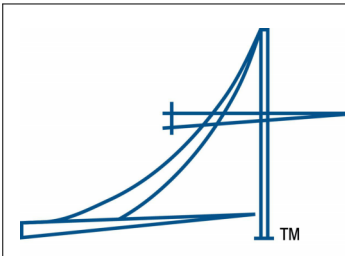
DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW. DEFERRED SUBMITTAL ITEMS INCLUDE:

- * PRE-MANUFACTURED WOOD TRUSSES
THESE ITEMS SHALL NOT BE INSTALLED UNTIL THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN: 1) REVIEWED AND BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE BUILDING DESIGN BY THE ARCHITECT AND STRUCTURAL ENGINEER, AND 2) APPROVED BY THE BUILDING OFFICIAL.

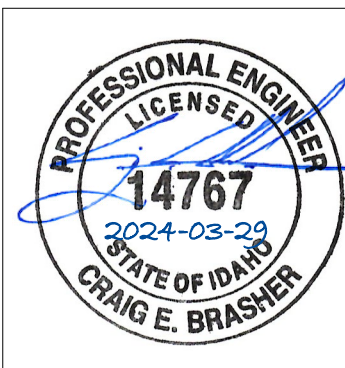
SPECIAL STRUCTURAL INSPECTIONS

THE OWNER SHALL EMPLOY A SPECIAL INSPECTION SERVICE TO PERFORM INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE 2018 INTERNATIONAL BUILDING CODE. INSPECTION REPORTS FOR THE ITEMS LISTED IN THE SPECIAL INSPECTION TABLES SHALL BE FURNISHED TO THE STRUCTURAL ENGINEER OF RECORD IN A TIMELY MANNER. INSPECTION REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES THAT ARE NOT CORRECTED SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER OF RECORD PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK. A FINAL REPORT DOCUMENTING THE REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED TO THE OWNER AND STRUCTURAL ENGINEER OF RECORD.

REVISIONS



Ally Structural Consulting, LLC
Since 2015
allystructural.com
Project #23-043



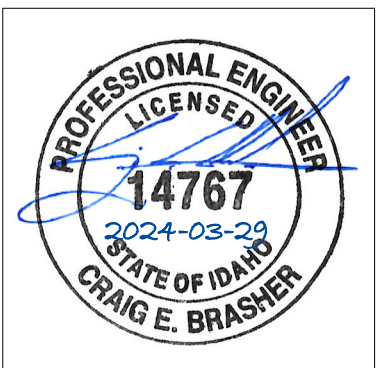
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300 E. Mallard Drive, Suite 325, Boise, Idaho 83706

UNIVERSITY OF IDAHO
RINKER ROCK CREEK RANCH BARN REMODEL
FAIRFIELD, IDAHO 83327

DATE: 3/29/2024
PROJECT NO: 2306.01
SHEET: S1.1
GENERAL STRUCTURAL NOTES

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REVISIONS



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FAIRFIELD, IDAHO 83327

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SHEET:
S1.2
SPECIAL INSPECTIONS

SPECIAL INSPECTION TABLE 1
1705.6 SOILS

YES	NO	MATERIAL/ACTIVITY	CONTINUOUS	PERIODIC
X		1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.		X
X		2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.		X
X		3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.		X
X		4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	
X		5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		X

SPECIAL INSPECTION TABLE 2
1705.3 CONCRETE CONSTRUCTION

YES	NO	MATERIAL/ACTIVITY	CONTINUOUS	PERIODIC
X		1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.		X
X		2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1705.2.2 ITEM 2B.		
	X	3. INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED PER SECTION 1908.5 OR WHERE STRENGTH DESIGN IS USED.		X
X		4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.		X
X		5. VERIFY USE OF REQUIRED DESIGN MIX		X
X		6. AT THE TIME OF FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	
X		7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	
X		8. INSPECTION FOR MAINTENANCE OF SPECIFIED ED CURING TEMPERATURE AND TECHNIQUES.		X
	X	9. INSPECTION OF PRESTRESSED CONCRETE:		
		A. APPLICATION OF PRESTRESSING FORCES	X	
		B. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC-FORCE-RESISTING SYSTEM	X	
	X	10. ERECTION OF PRECAST CONCRETE MEMBERS.		X
	X	11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.		X
X		12. INSPECTION OF FORMWORK FOR SHAPE, LINES, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.		X

NOTE: THE EOR IS IN FAVOR OF REDUCING THE FREQUENCY OF ALL INSPECTIONS TO 'PERIODIC' IF THE BUILDING OFFICIAL SO CHOOSES PER THE EXCEPTIONS TO SECTION 1704.2 OF THE IBC

FOUNDATION SCHEDULE

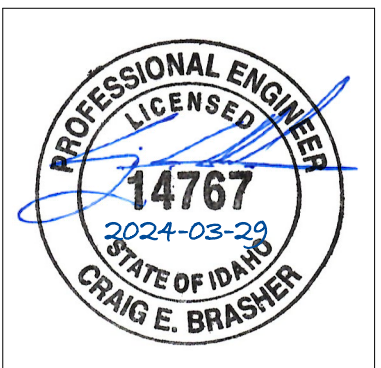
MARK	SIZE	REINFORCING	USES
FW1	8" WIDE CONTINUOUS FOUNDATION WALL	#5 VERT. AT 16" O.C. & #4 HORIZ. AT TOP BOTTOM, & 12" O.C.	EXTERIOR FOUNDATION WALL
FW2	6" WIDE CONTINUOUS FOUNDATION WALL	#5 VERT. AT 16" O.C. & #4 HORIZ. AT TOP BOTTOM, & 12" O.C.	INTERIOR FOUNDATION WALL
F1	2'-0"x12" DP CONT.	(3)#5 CONT.	TYPICAL CONTINUOUS FOOTING

COLUMN SCHEDULE

MARK	SIZE & TYPE	NOTES
C1	6x6 DF#1	TYPICAL INTERIOR COLUMN

FOUNDATION PLAN NOTES

- FOR GENERAL STRUCTURAL NOTES SEE S1.1
- FOR TYPICAL FOUNDATION DETAILS SEE S3.1
- FOR TYPICAL WALL FRAMING DETAILS SEE S4.1. COORDINATE WITH ARCH'L WALL TYPES FOR INFORMATION NOT SEEN HERE.
- FOR STUD WALL TYPE SEE S2.2 & S2.3
- SW1 DENOTES SHEAR WALL TYPE. FOR SHEAR WALL SCHEDULE SEE DETAIL 9/S4.1. NOTE: ALL EXTERIOR WALLS SHALL BE SHEATHED AND NAILED PER TYPE SW1 U.N.O.
- HD1 DENOTES HOLD DOWN TYPE. FOR HOLD DOWN SCHEDULE SEE DETAIL 11/S4.1.

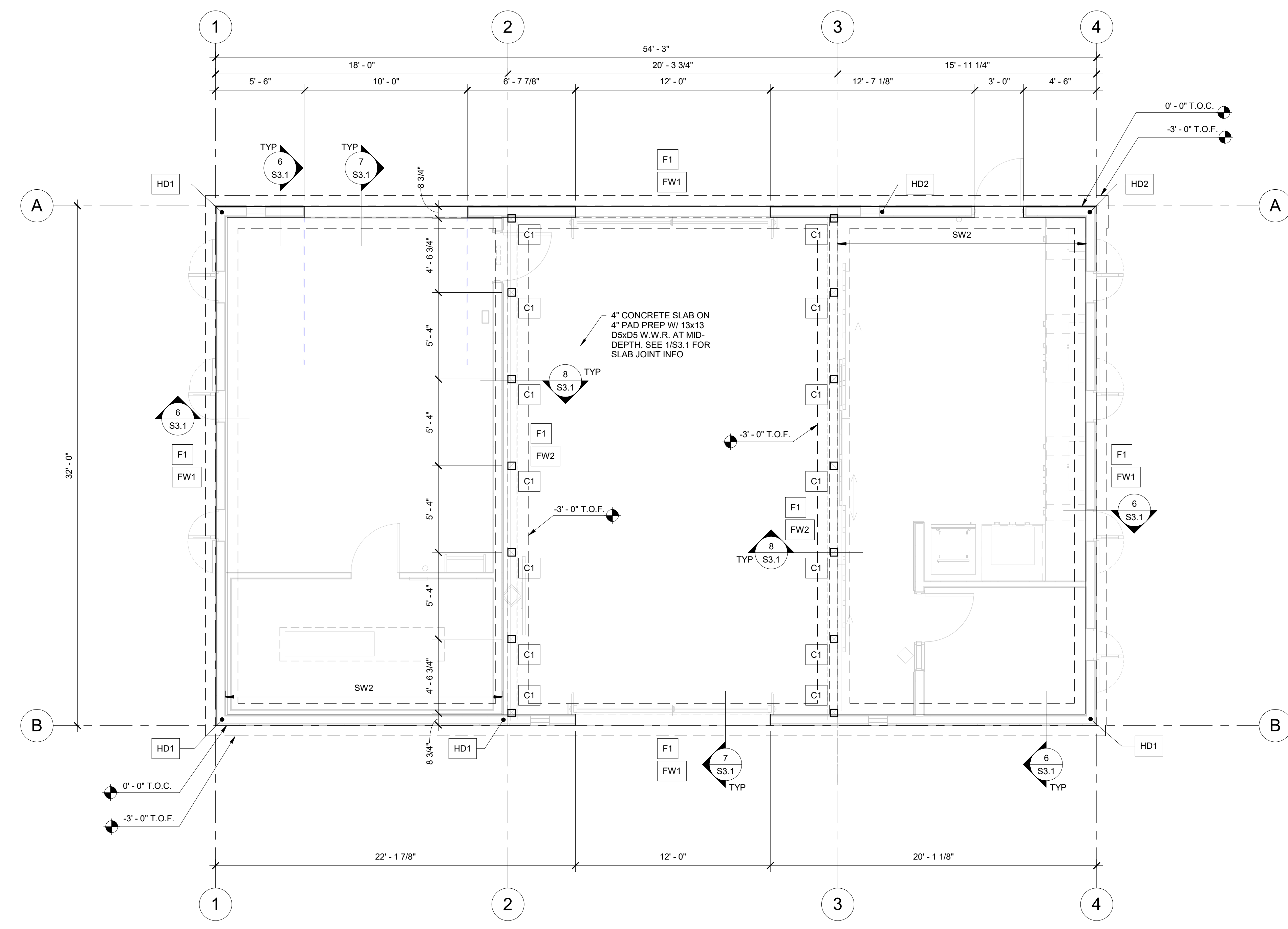


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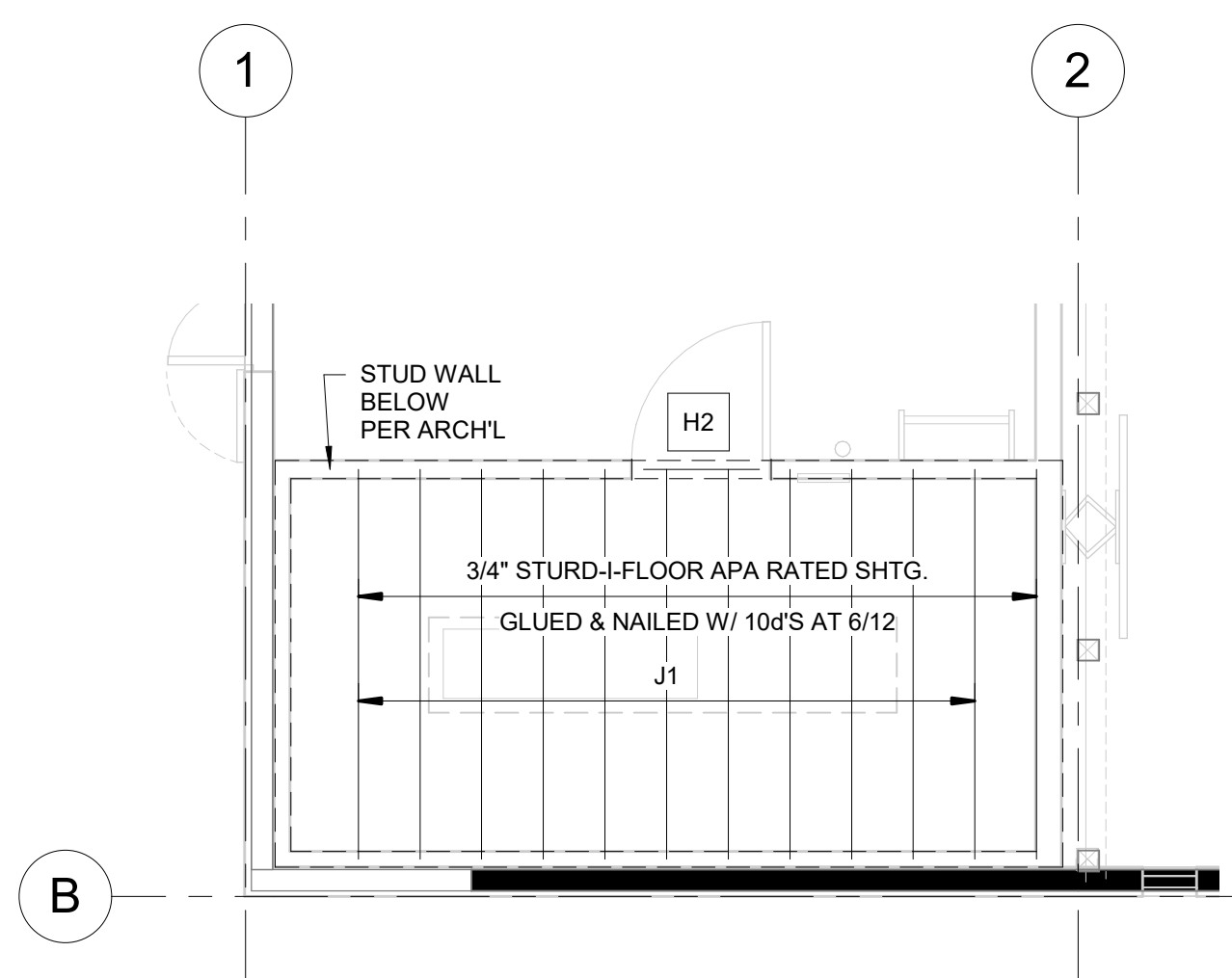
UNIVERSITY OF IDAHO
RINKER ROCK CREEK RANCH BARN REMODEL
FAIRFIELD, IDAHO 83327

DATE: 3/29/2024
PROJECT NO: 2306.01
SHEET:

S2.1
FOUNDATION PLAN



1 FOUNDATION PLAN
1/4" = 1'-0"



HEADER SCHEDULE

MARK	SIZE & TYPE	TRIMMER	KING
H1	(2)2x4 DF#2	(1) WALL STUD	(1) WALL STUD
H2	(2)2x6 DF#2	(1) WALL STUD	(1) WALL STUD
H3	(2)1 3/4"x11 7/8" 2.0E LVL	(1) WALL STUD	(2) WALL STUD
H4	(2)1 3/4"x11 7/8" 2.0E LVL	(1) WALL STUD	5 1/8"x18"24F-1/4 DF/DF GLU-LAM PLANKED IN WALL

BEARING WALL SCHEDULE

HATCH	MARK	STUD SIZE	TYPE	SPACING
NONE	W1	2x6	DF#2	16" O.C.
	W2	1 3/4"x5.5"	1.75E LSL	16" O.C.

BEAM SCHEDULE

MARK	SIZE & TYPE	NOTES
B1	6x12 DF#1	TYPICAL INTERIOR BEAM

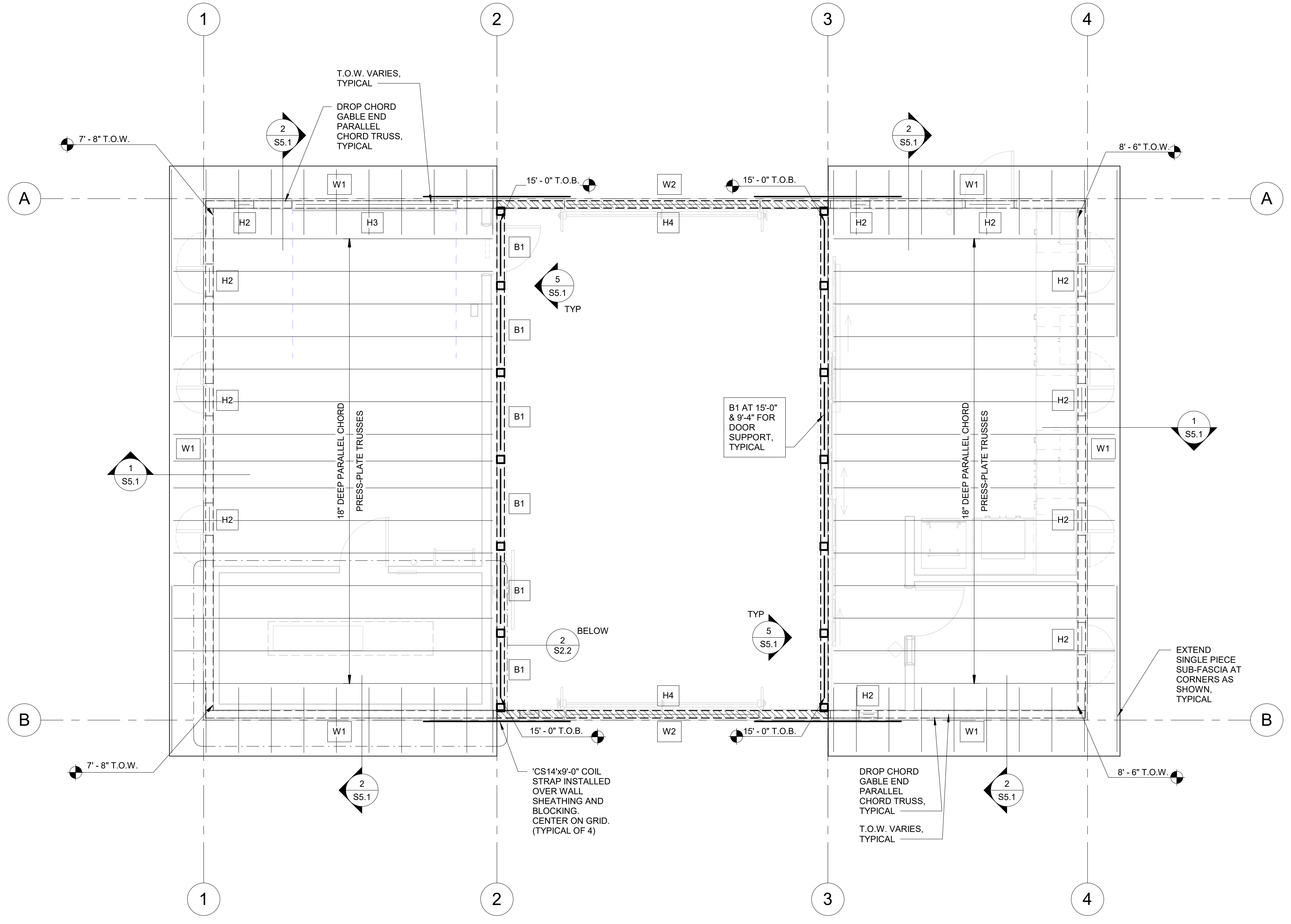
JOIST SCHEDULE

MARK	SIZE & TYPE	SPACING
J1	2x10 DF#2	16" O.C.

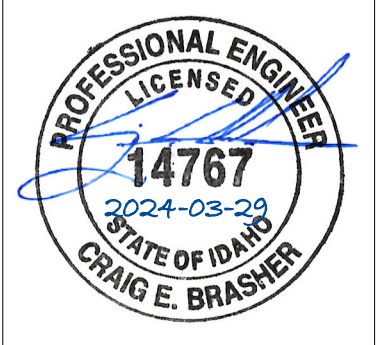
FRAMING PLAN NOTES

- FOR GENERAL STRUCTURAL NOTES SEE S1.1
- ROOF FRAMING**
THE ROOF FRAMING IS OF WOOD PRE-MANUFACTURED PRESS PLATE TRUSSES AT 24" O.C. MAX U.N.O. SEE THE GSN FOR DESIGN CRITERIA NOT INDICATED HERE. THE TRUSS LAYOUT IS PER THE TRUSS MANUFACTURER.
- ROOF SHEATHING**
19/32" APA RATED SHEATHING 40/20 SPAN RATING EXTERIOR EXPOSURE 1. STAGGER PANEL EDGES. NAIL WITH 8d'S AT 6" O.C. AT EDGE SUPPORTS AND 12" O.C. AT INTERMEDIATE SUPPORTS. **USE FIRE-RETARDANT SHEATHING AT EAVES AND OVERHANGS.**

2 STORAGE FRAMING
1/4" = 1'-0"



1 LOWER ROOF FRAMING
1/4" = 1'-0"




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S2.2
LOWER ROOF FRAMING PLAN

HEADER SCHEDULE			
MARK	SIZE & TYPE	TRIMMER	KING
H1	(2)2x4 DF#2	(1) WALL STUD	(1) WALL STUD
H2	(2)2x6 DF#2	(1) WALL STUD	(1) WALL STUD
H3	(2)1 3/4"x11 7/8" 2.0E LVL	(1) WALL STUD	(2) WALL STUD
H4	(2)1 3/4"x11 7/8" 2.0E LVL	(1) WALL STUD	5 1/8"x18"24F-V4 DF/DF GLU-LAM PLANKED IN WALL

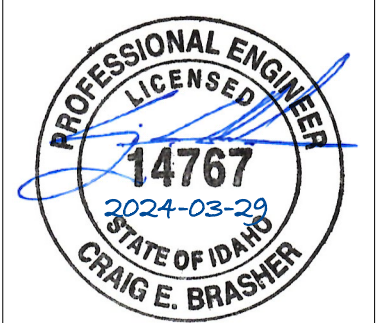
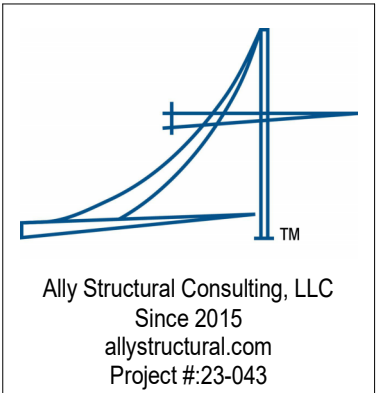
BEARING WALL SCHEDULE				
HATCH	MARK	STUD SIZE	TYPE	SPACING
NONE	W1	2x6	DF#2	16" O.C.
	W2	1 3/4"x5.5"	1.75E LSL	16" O.C.

BEAM SCHEDULE		
MARK	SIZE & TYPE	NOTES
B1	6x12 DF#1	TYPICAL INTERIOR BEAM

JOIST SCHEDULE		
MARK	SIZE & TYPE	SPACING
J1	2x10 DF#2	16" O.C.

FRAMING PLAN NOTES

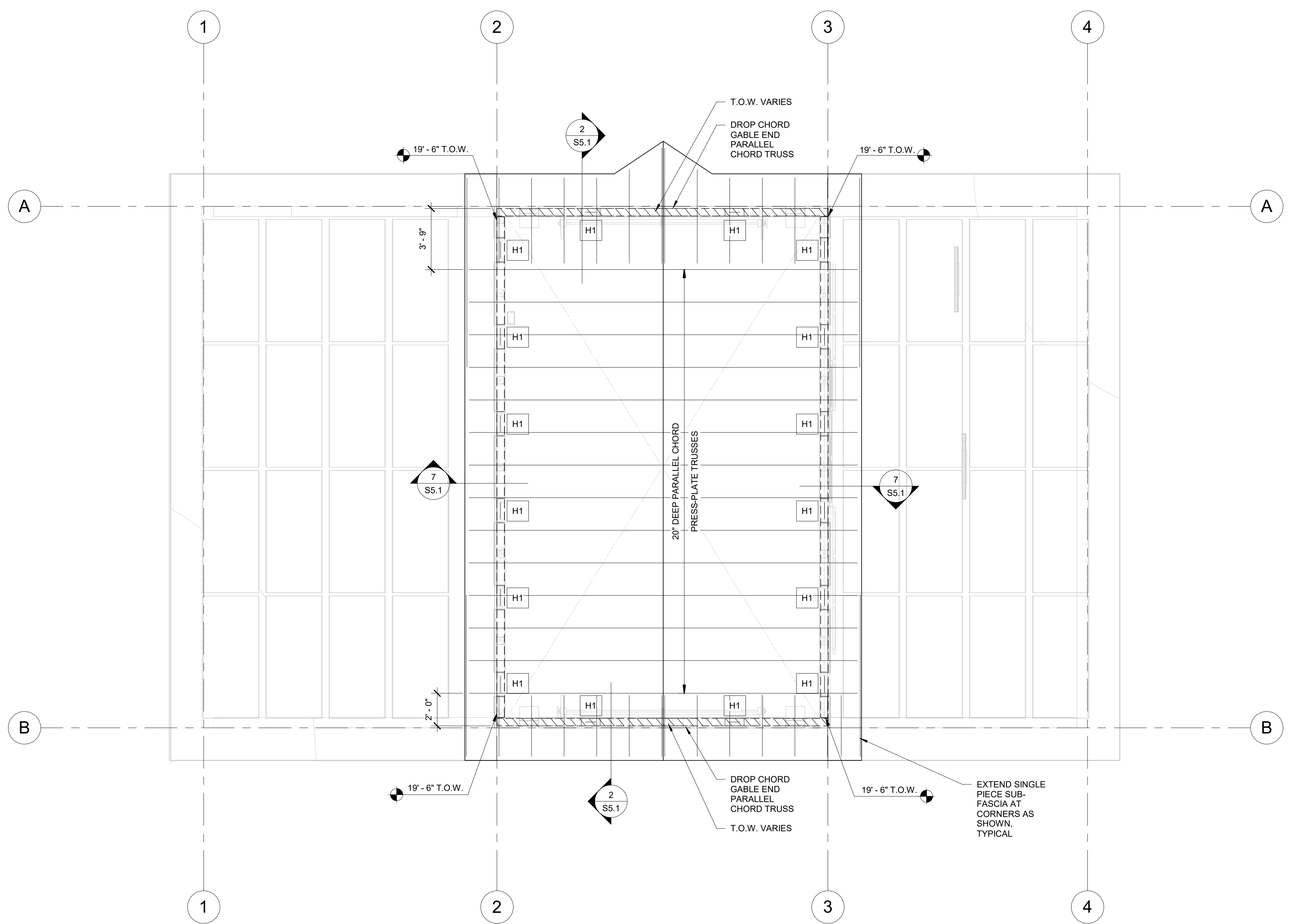
- FOR GENERAL STRUCTURAL NOTES SEE S1.1
- ROOF FRAMING**
THE ROOF FRAMING IS OF WOOD PRE-MANUFACTURED PRESS PLATE TRUSSES AT 24" O.C. MAX U.N.O. SEE THE GSN FOR DESIGN CRITERIA NOT INDICATED HERE. THE TRUSS LAYOUT IS PER THE TRUSS MANUFACTURER.
- ROOF SHEATHING**
19/32" APA RATED SHEATHING 40/20 SPAN RATING EXTERIOR EXPOSURE 1. STAGGER PANEL EDGES. NAIL WITH 8d'S AT 6" O.C. AT EDGE SUPPORTS AND 12" O.C. AT INTERMEDIATE SUPPORTS. **USE FIRE-RETARDANT SHEATHING AT EAVES AND OVERHANGS.**



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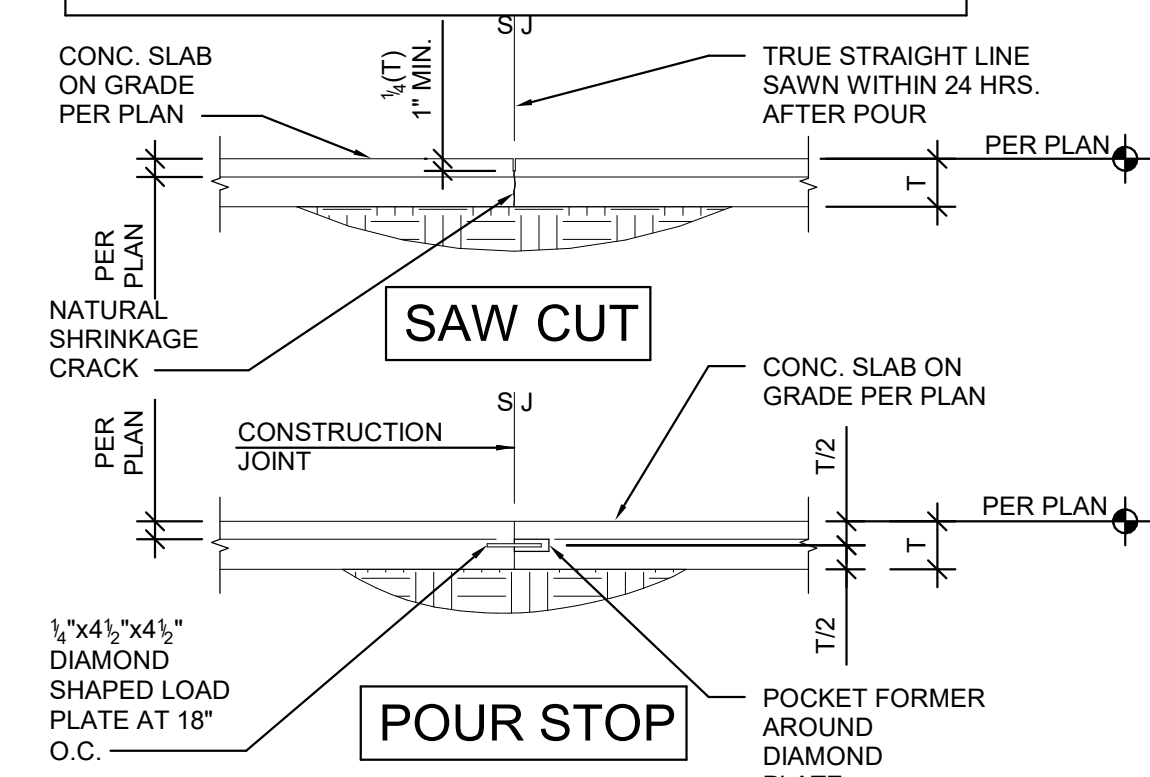
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DATE: 3/29/2024
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SHEET:
S2.3
UPPER ROOF FRAMING PLAN



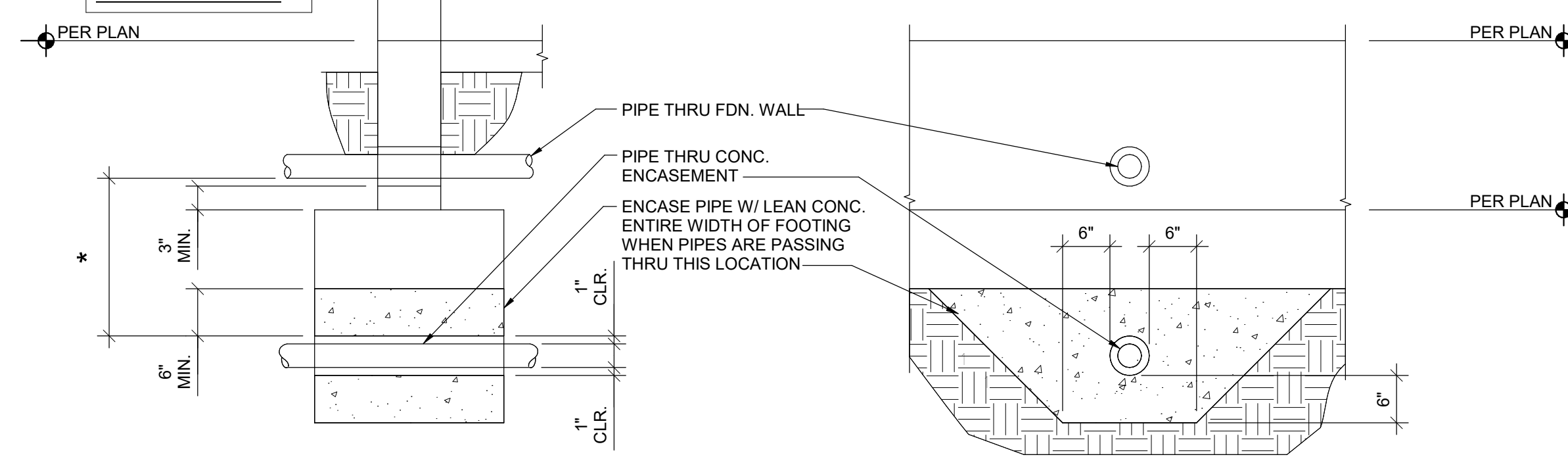
1 UPPER ROOF FRAMING
1/4" = 1'-0"

- NOTES:
 1. MAX. SLAB JOINT SPACING = 15'-0".
 2. THE MAX. WIDTH TO LENGTH JOINT SPACING ASPECT RATIO = 1.5.
 3. PROVIDE (2) #3 x 4'-0" LONG DIAGONALS AT REENTRANT CORNERS.
 4. CONTRACTORS OPTION, SAW CUT OR POUR STOP.

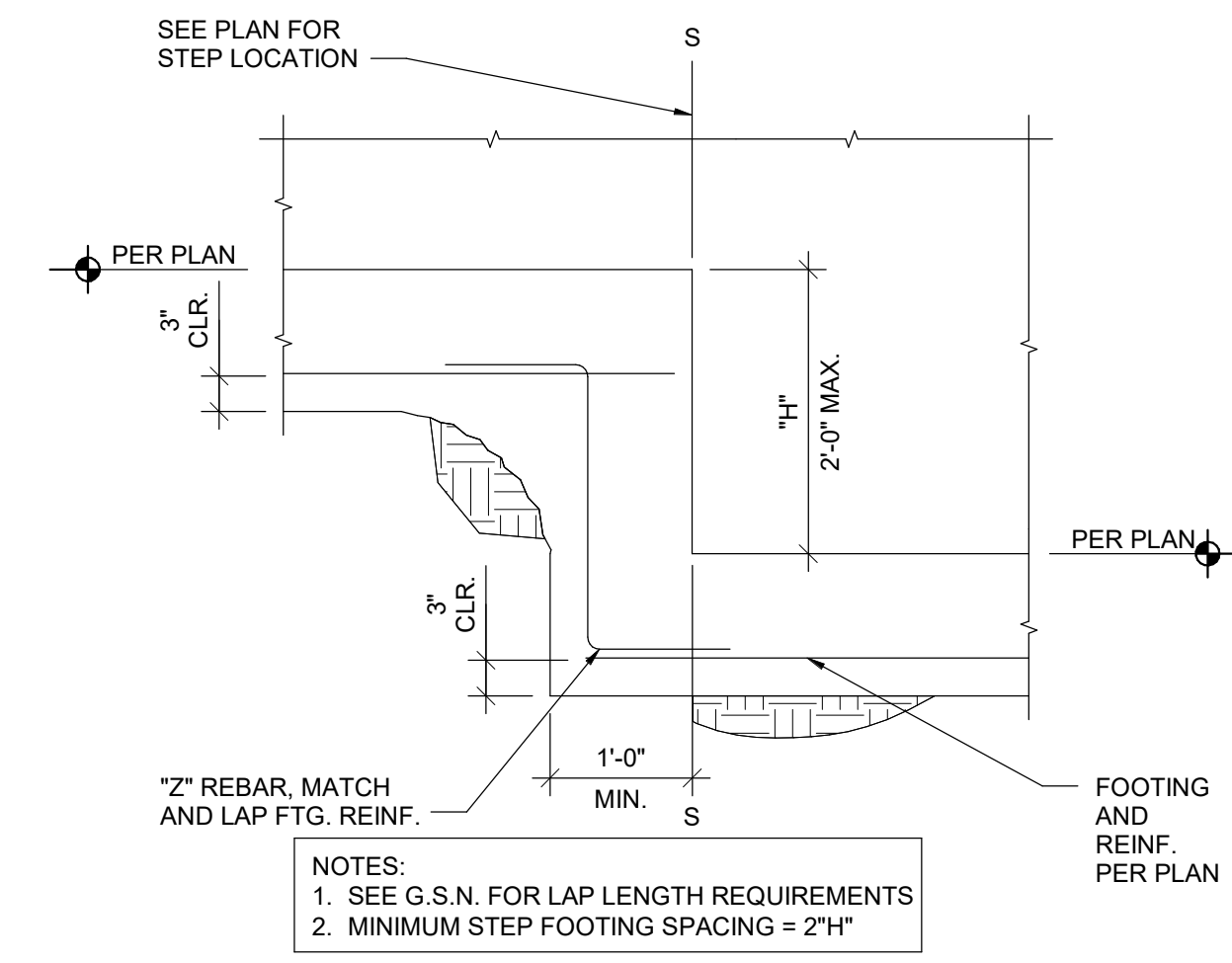


1 TYPICAL SLAB JOINTS
 3/4" = 1'-0"

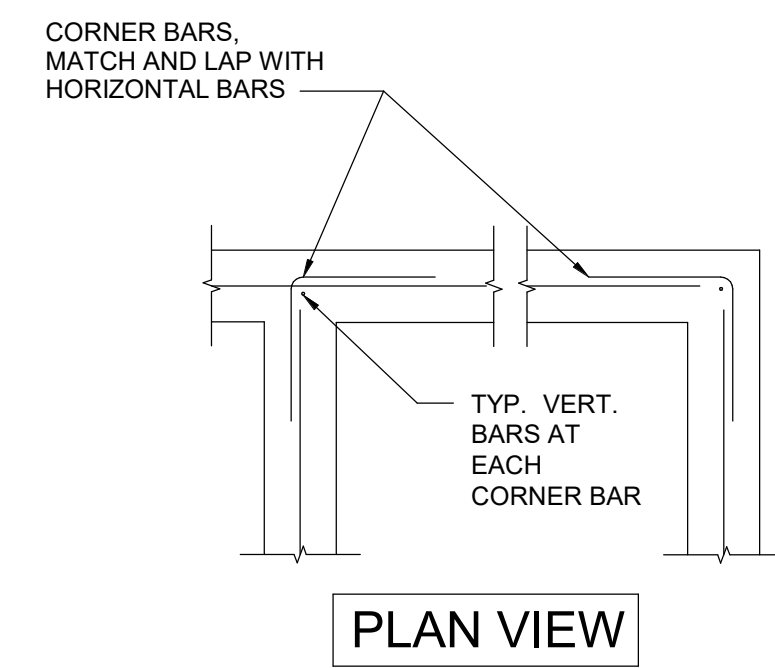
- * PIPE SHALL NOT PASS THRU THIS PORTION OF FOUNDATION WITHOUT ALTERATIONS. STEP FOOTING DOWN FOR PIPE PENETRATIONS REQUIRED AT THIS ELEVATION PER 4/S3.1
- NOTES:
 1. WHERE PIPE PASSES THROUGH FDN. WALL OR CONC. ENCASEMENT, PROVIDE A CAST IN PLACE NON-CORROSIVE SLEEVE W/ MIN. 1" GAP BETWEEN PIPE AND SLEEVE.
 2. UNDER NO CONDITION SHALL A PIPE PASS THROUGH OR UNDER A COLUMN OR PIER FTG.
 3. NO REINFORCING IS TO BE DISPLACED OR CUT TO ALLOW FOR PIPE.
 4. MAX. 6" Ø PIPE THROUGH FDN. WALL, MAX. 8" Ø FOR PIPE THROUGH CONC. ENCASEMENT.
 5. INSULATE BETWEEN PIPE AND SLEEVE W/ FOAM OR RUBBER.



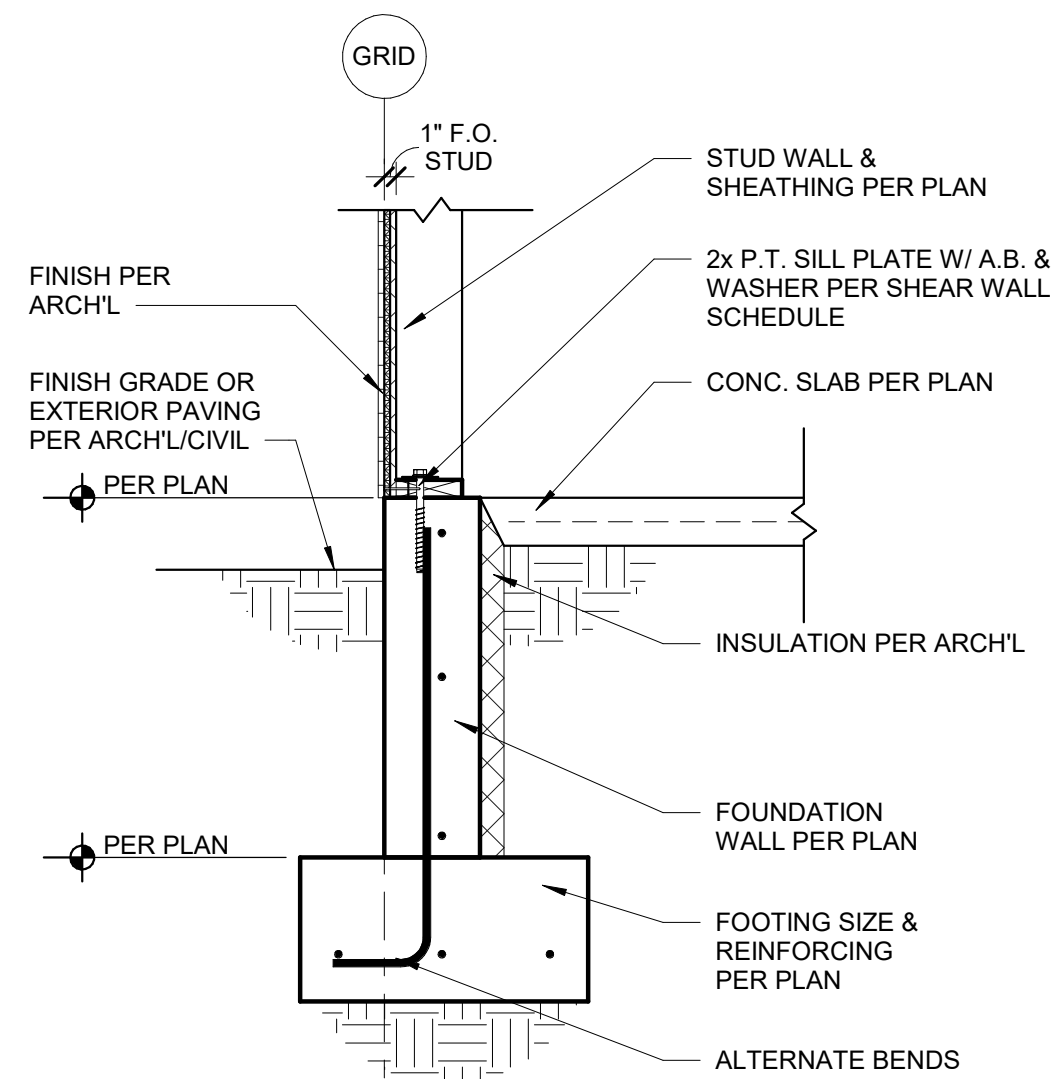
2 TYPICAL PENETRATIONS AT CONCRETE FOUNDATION
 3/4" = 1'-0"



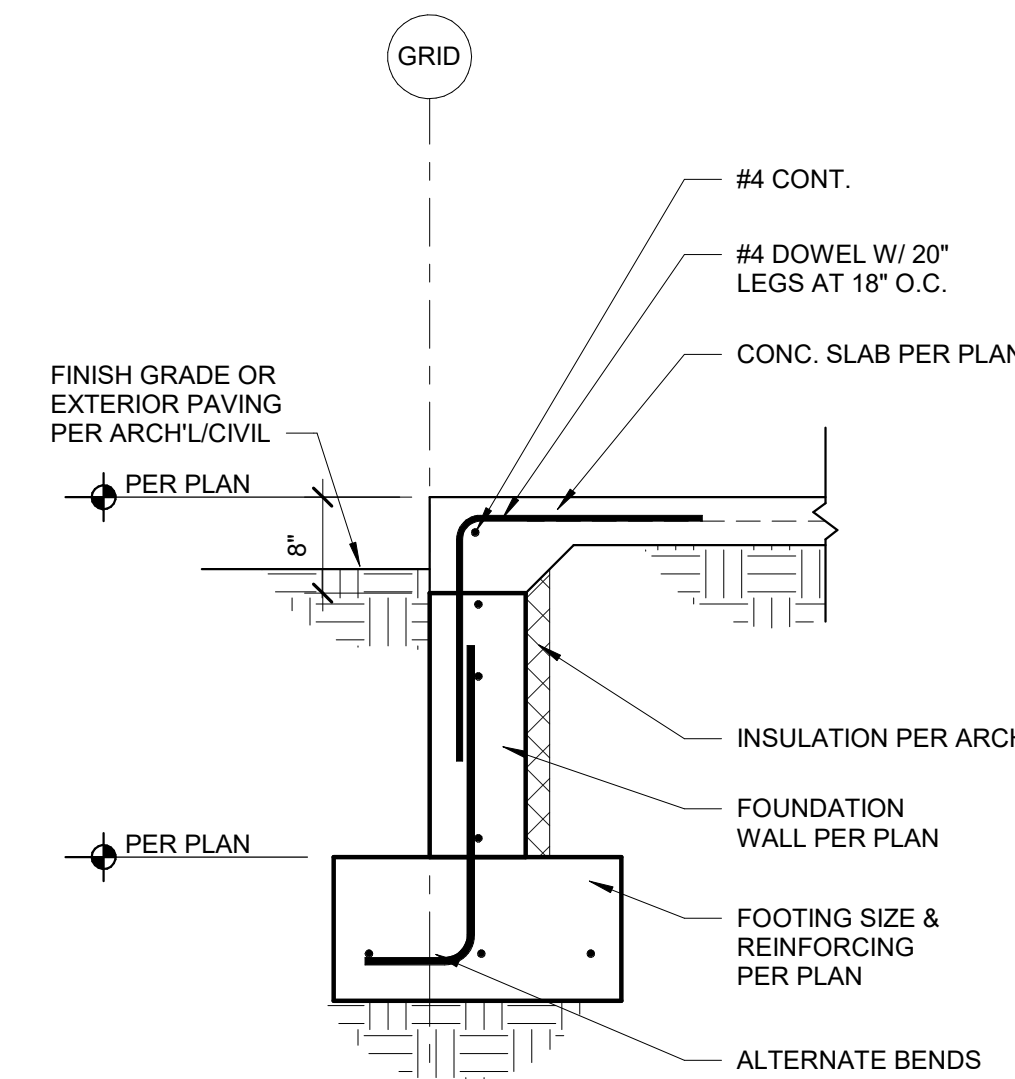
4 TYPICAL STEP AT CONCRETE FOUNDATION
 3/4" = 1'-0"



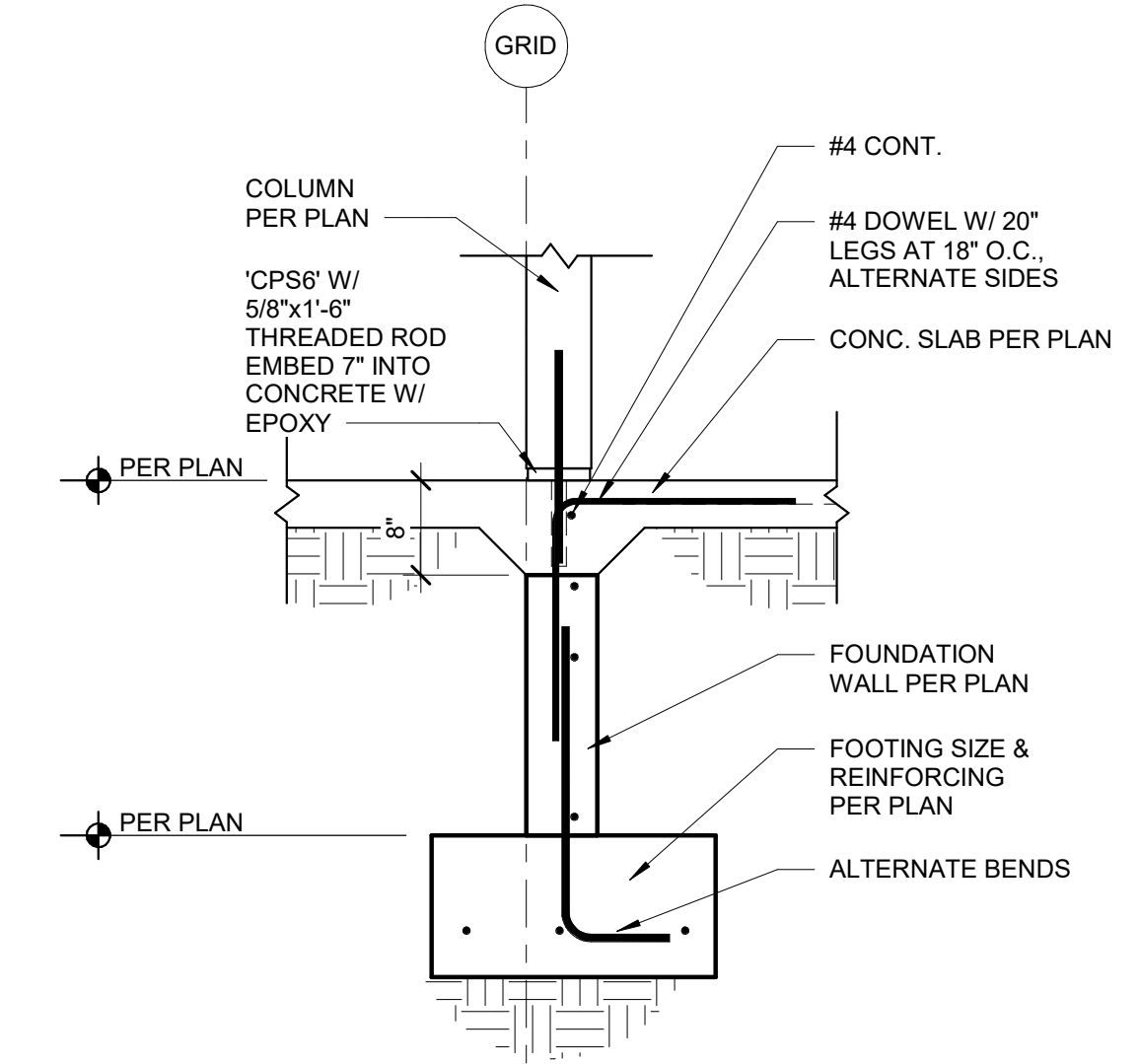
5 TYPICAL CONCRETE WALL CORNERS & INTERSECTIONS
 3/4" = 1'-0"



6 STUD WALL AT FOUNDATION
 3/4" = 1'-0"



7 TURN-DOWN SLAB AT FOUNDATION
 3/4" = 1'-0"



8 INTERIOR COLUMN AT FOUNDATION WALL
 3/4" = 1'-0"

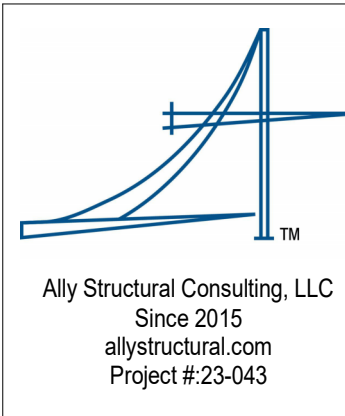
REVISIONS



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 300 E. Mallard Drive, Suite 325, Boise Idaho 83706

UNIVERSITY OF IDAHO
 RINKER ROCK CREEK RANCH BARN REMODEL
 FAIRFIELD, IDAHO 83327

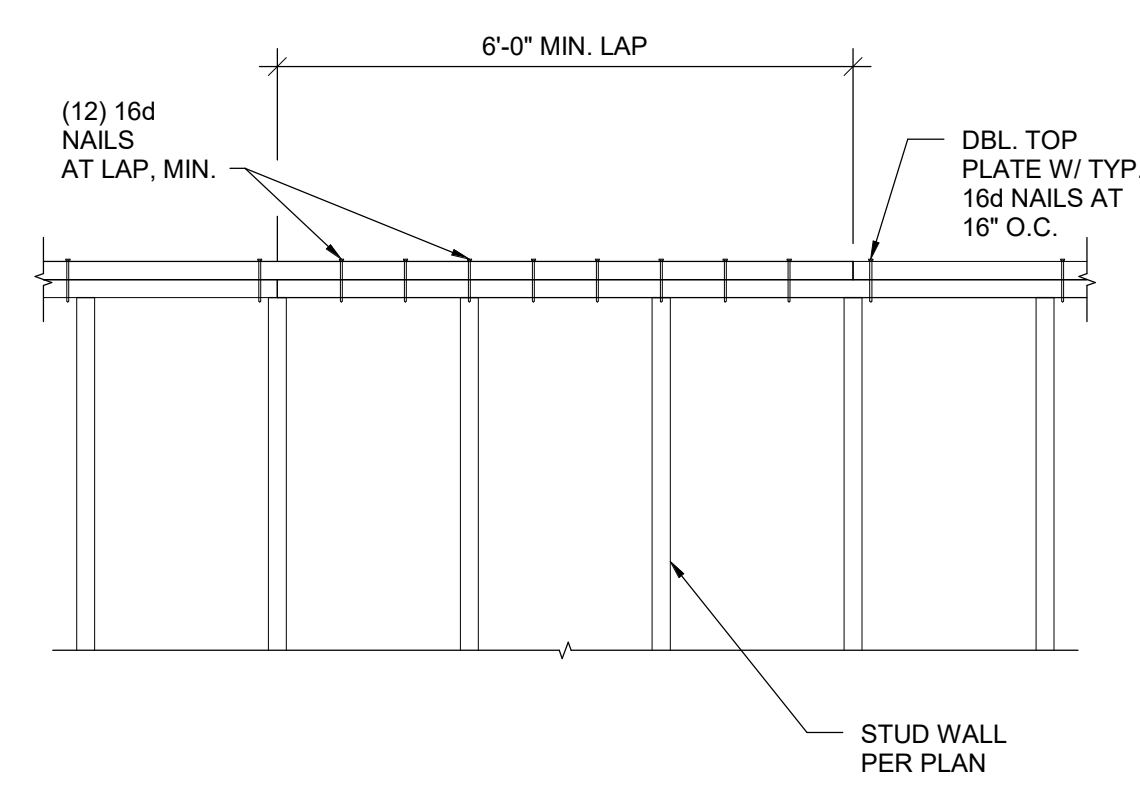
DATE: 3/29/2024
 PROJECT NO: 2306.01
 SHEET:
S3.1
 STRUCTURAL DETAILS



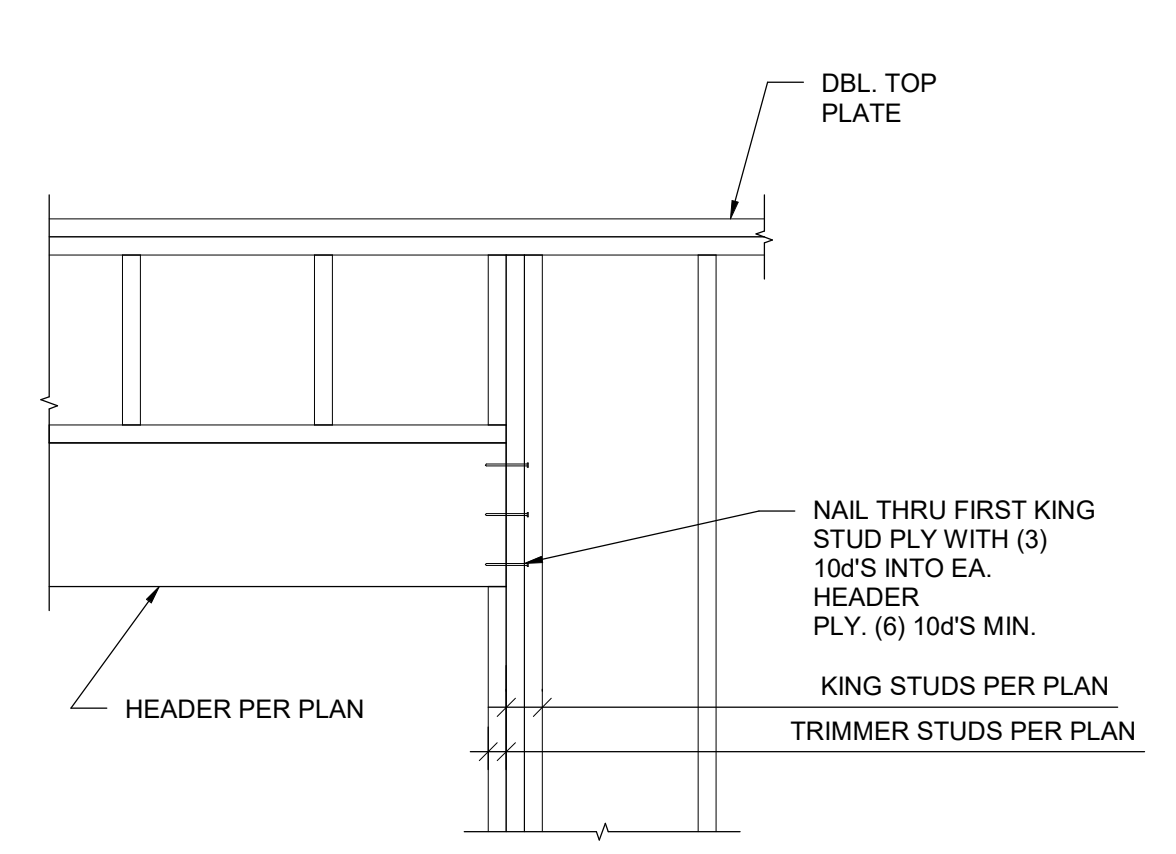
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RINKER ROCK CREEK RANCH BARN REMODEL
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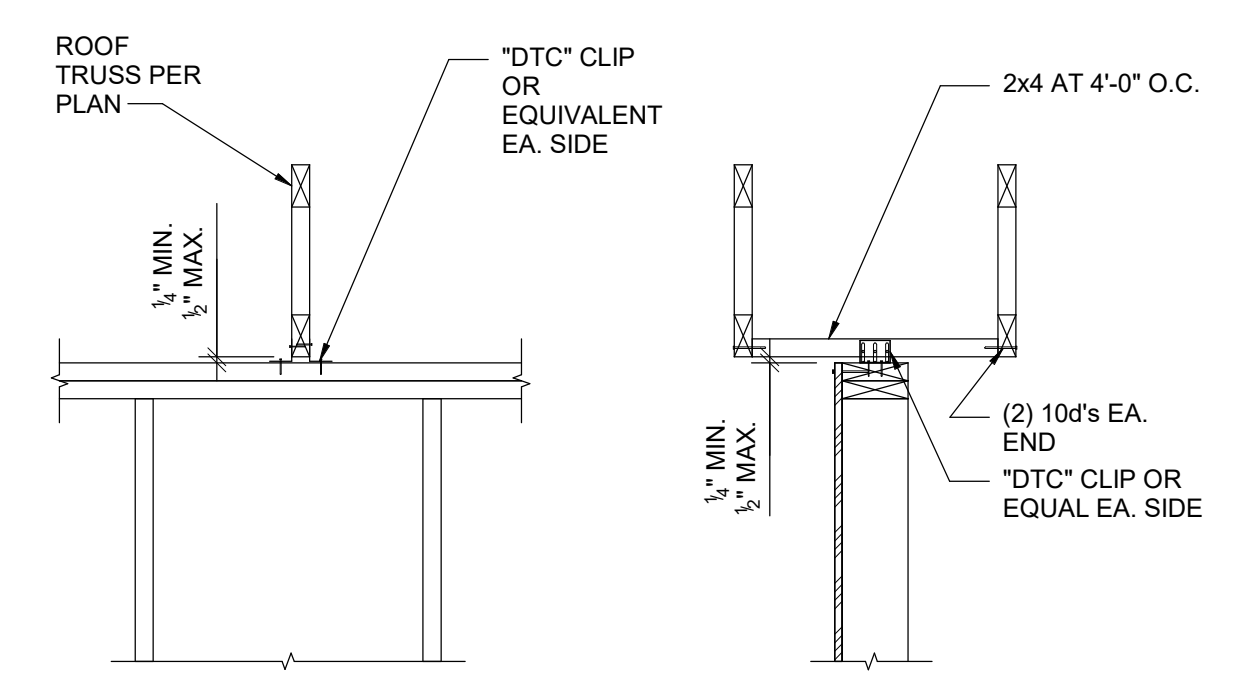
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PROJECT NO: 2306.01
SHEET:
S4.1
STRUCTURAL DETAILS



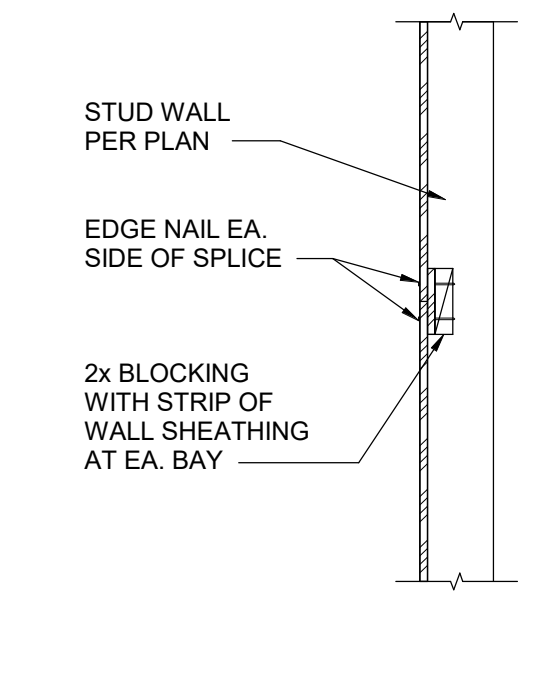
1 TYPICAL DOUBLE TOP PLATE SPLICE
3/4" = 1'-0"



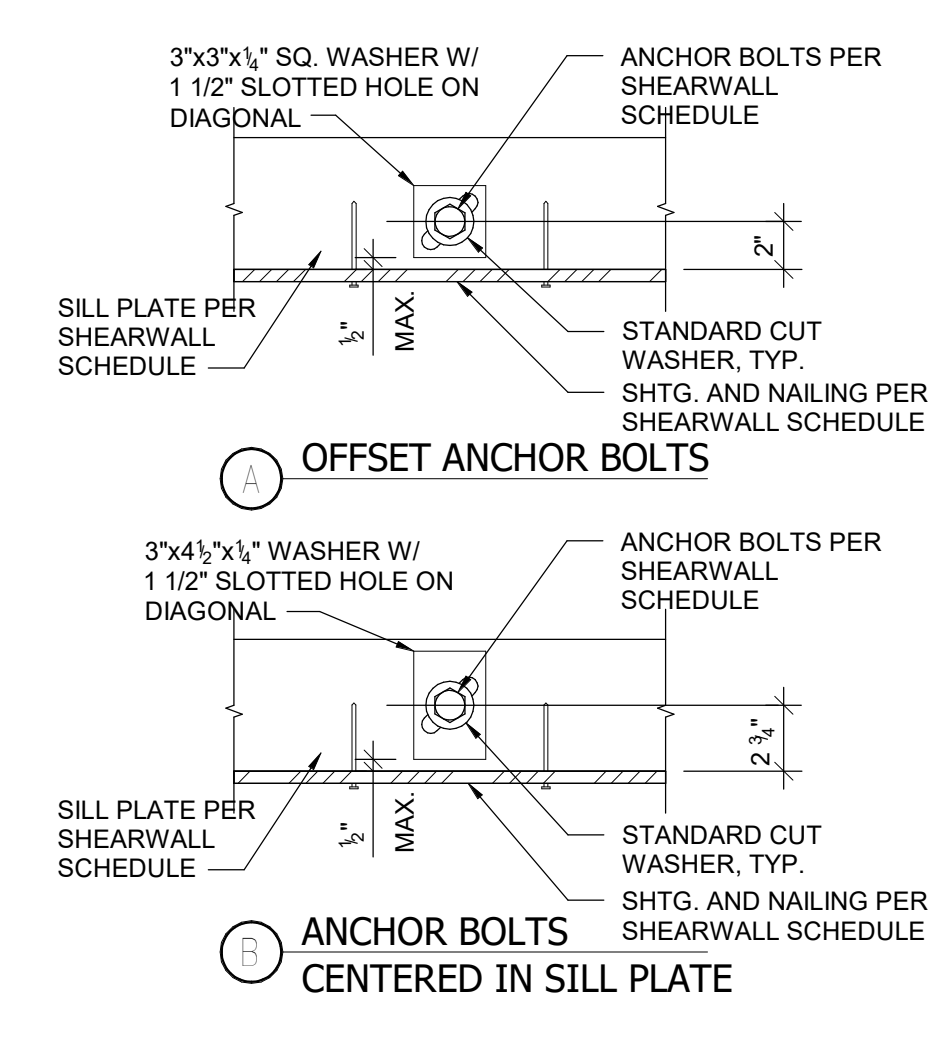
2 TYPICAL HEADER
3/4" = 1'-0"



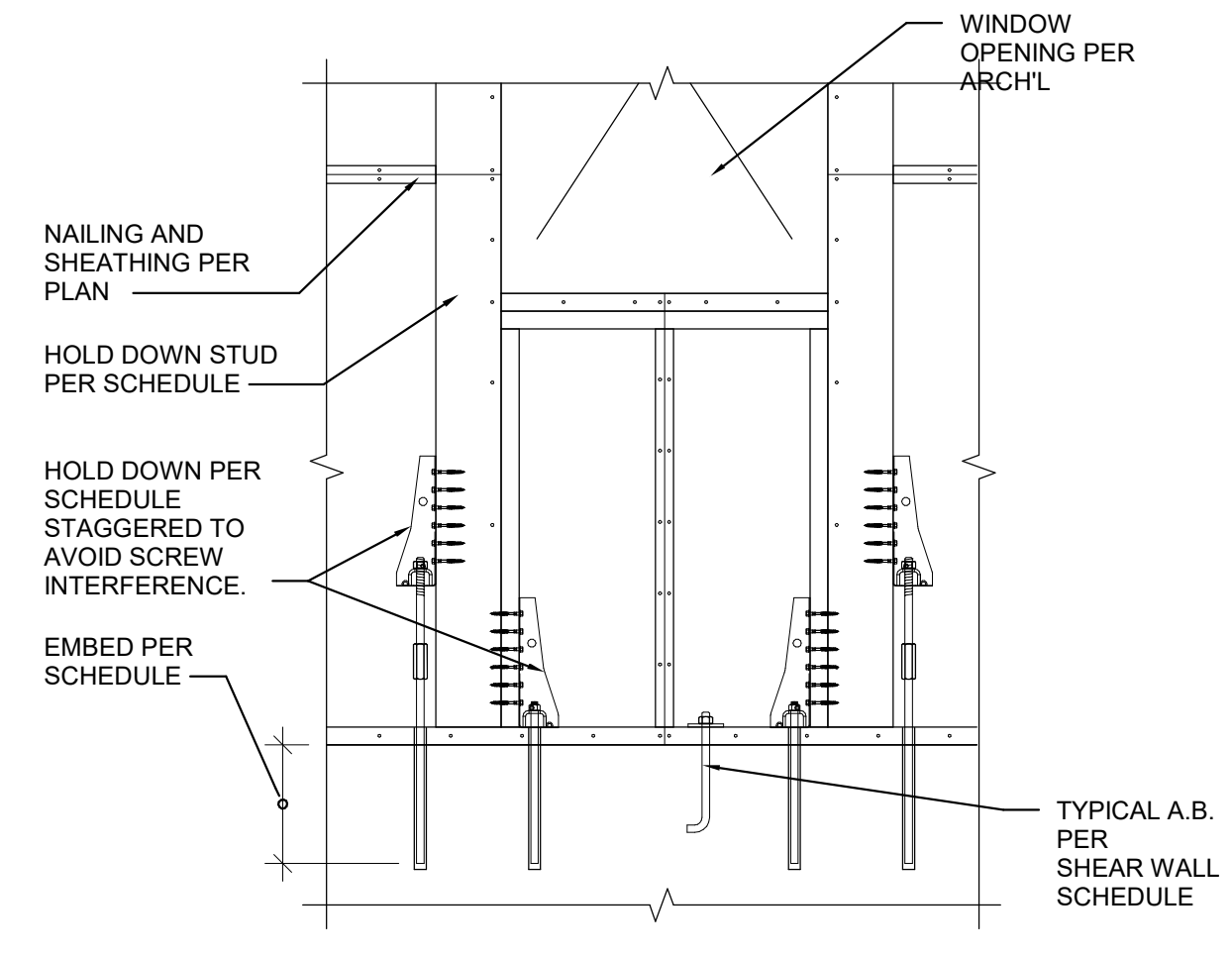
3 TYPICAL NON-BEARING WALL BRACING
3/4" = 1'-0"



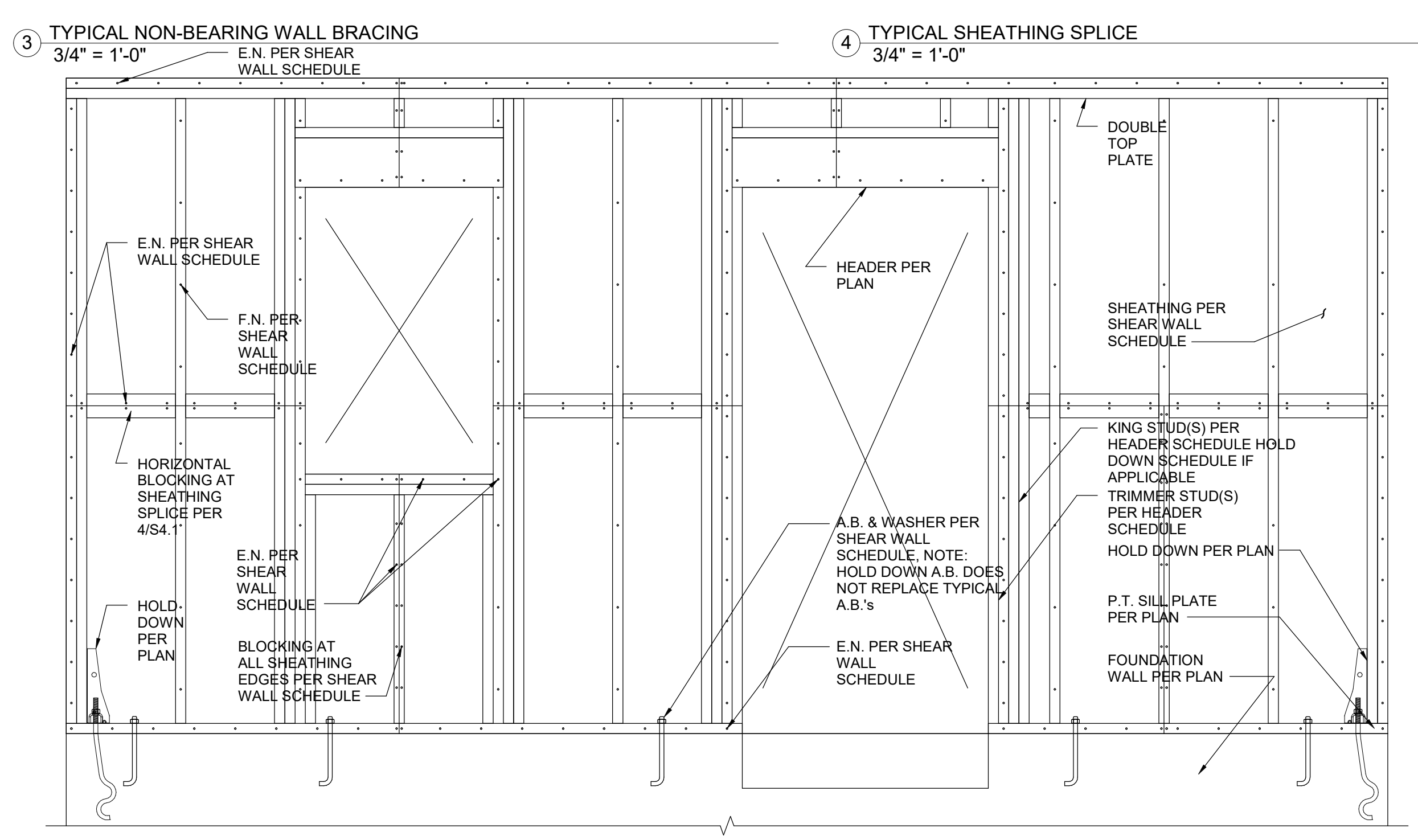
4 TYPICAL SHEATHING SPLICE
3/4" = 1'-0"



5 TYPICAL A.B. & WASHER PLACEMENT
3/4" = 1'-0"



6 DOUBLE HOLD DOWN
3/4" = 1'-0"



7 TYPICAL SHEAR WALL FRAMING
3/4" = 1'-0"

SHEAR WALL SCHEDULE					
MARK	SHEATHING THICKNESS & TYPE	SIDES	NAILING		FOUNDATION ANCHOR BOLTS TYPE & SPACING
			EDGE NAILING TYPE & SPACING	FIELD NAILING TYPE & SPACING	
SW1	1" ZIP SYSTEM R-SHEATHING R-3	EXTERIOR	0.131"x3" MIN. RING SHANK AT 3" O.C.	0.131"x3" MIN. RING SHANK AT 12" O.C.	5/8"x9" F1554 J-BOLTS OR 5/8"x8" TITEN HD' AT 36" O.C.
SW2	3/4" WOOD	INTERIOR	0.131"x2 1/2" MIN. COMMON AT 4" O.C.	0.131"x2 1/2" MIN. COMMON AT 12" O.C.	5/8"x9" F1554 J-BOLTS OR 5/8"x8" TITEN HD' AT 36" O.C.

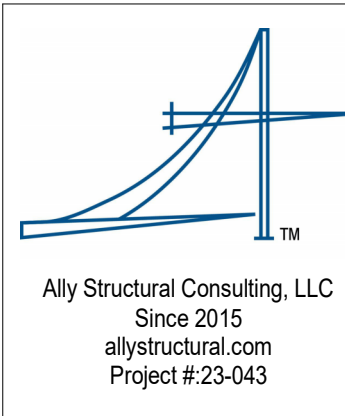
NOTES:
1. WHERE NO MARK IS INDICATED USE SHEAR WALL TYPE SW1 ON ALL EXTERIOR WOOD FRAMED WALLS.
2. BLOCK ALL PANEL EDGES WITH 2x BLOCKING. SEE 4/S4.1
3. PROVIDE 1/4"x3"x3" PLATE WASHER W/ SLOTTED HOLE SO THE EDGE OF THE PLATE CAN BE LOCATED 1/2" AWAY FROM THE EDGE OF THE SILL PLATE ON THE SIDE OF THE WALL SHEATHING. A CUT WASHER SHALL BE PLACED BETWEEN THE 1/4" PLATE AND NUT. SEE 5/S4.1.

9 SHEAR WALL SCHEDULE
3/4" = 1'-0"

HOLD DOWN SCHEDULE									
MARK	STRAP STYLE OPTION			ANCHOR ROD STYLE OPTION					HOLD DOWN STUDS
	CAST-IN-PLACE	FLOOR-TO-FLOOR	WALL-TO-BEAM	HOLD DOWN	THREADED ROD (FLOOR-TO-FLOOR)	ANCHOR IN 6" STEM	ANCHOR IN 8" STEM	ANCHOR IN FOOTING	
HD1	STHD14	N/A	N/A	HDU2	N/A	N/A	'SSTB16' -OR- EPOXY EMBED 10"	EPOXY EMBED 7"	(2) WALL STUDS
HD2	STHD14	N/A	N/A	HDU4	N/A	N/A	'SB5/8X24' -OR- HDU8 W/ EPOXY EMBED 15"	EPOXY EMBED 7"	(2) WALL STUDS
HD3	N/A	N/A	N/A	HDU5	N/A	N/A	'SB5/8X24' -OR- HDU8 W/ EPOXY EMBED 15"	EPOXY EMBED 7"	(2) WALL STUDS, 4x AT CORNER & EPOXY

NOTE: THE PREFERRED OPTION IS A WET-SET ANCHOR IN THE STEM WALL. VERIFY WITH THE GENERAL CONTRACTOR PRIOR TO USING THE OTHER OPTIONS PRESENTED HERE.

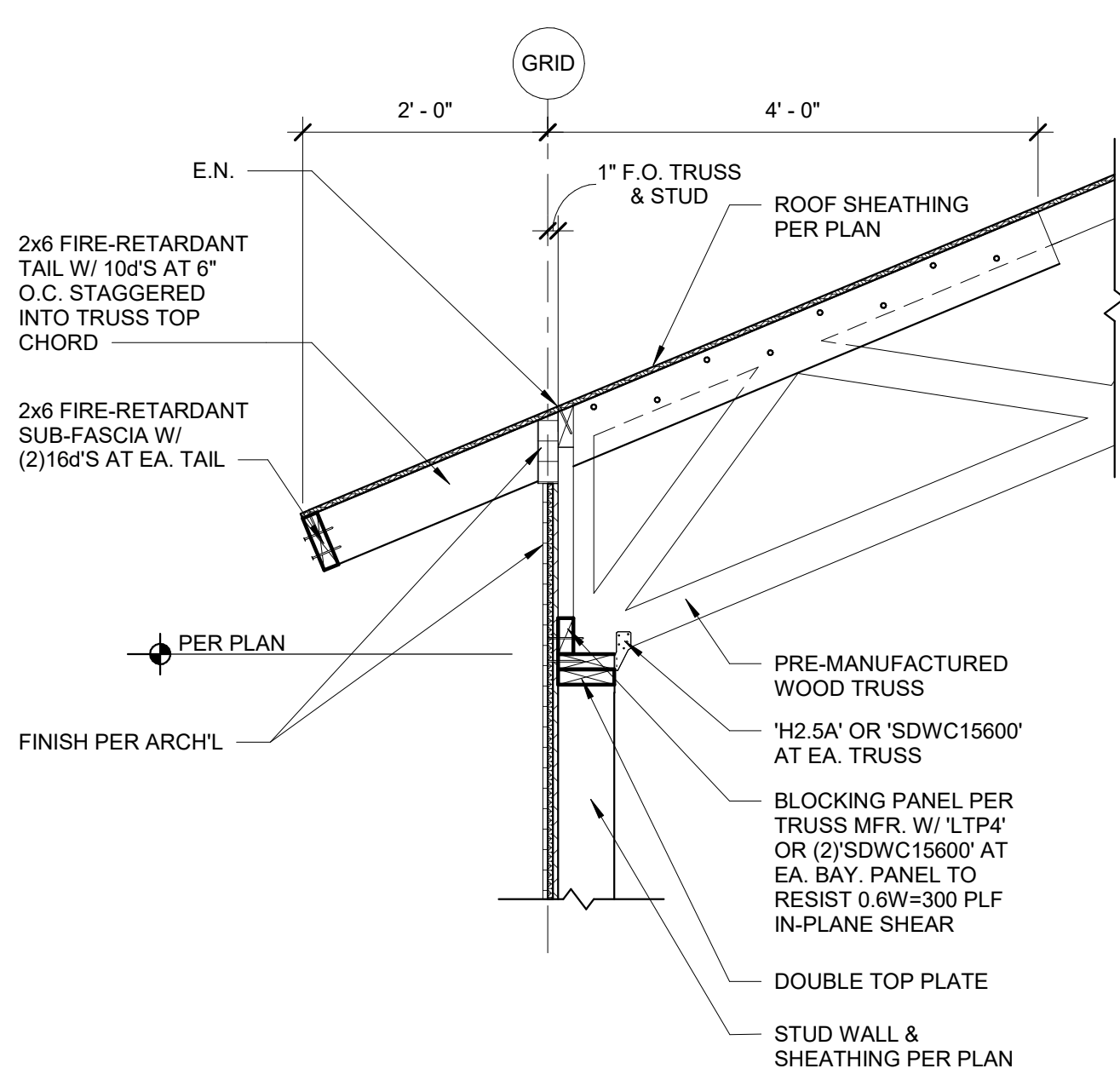
11 HOLD DOWN SCHEDULE
3/4" = 1'-0"



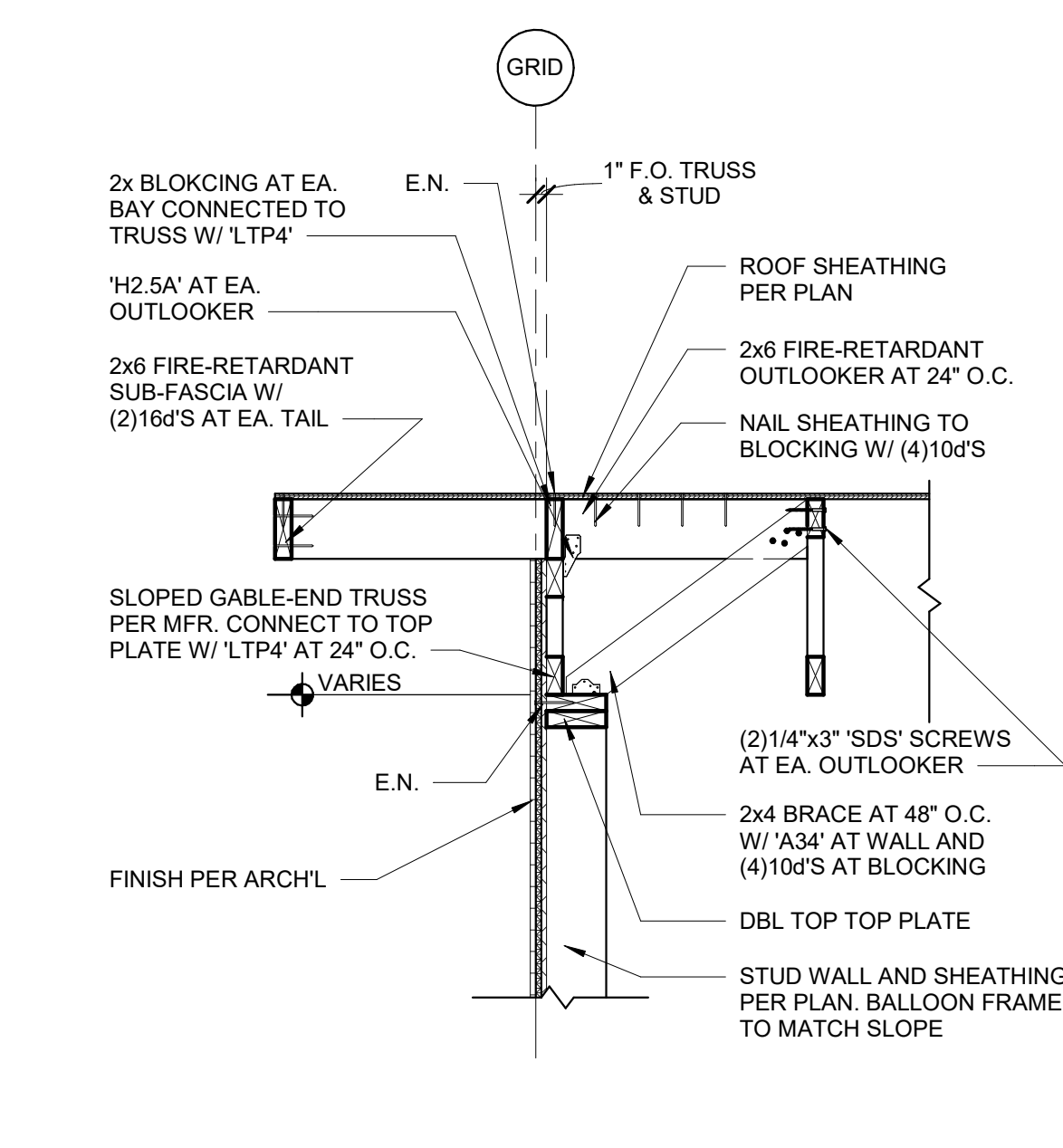
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FAIRFIELD, IDAHO 83327

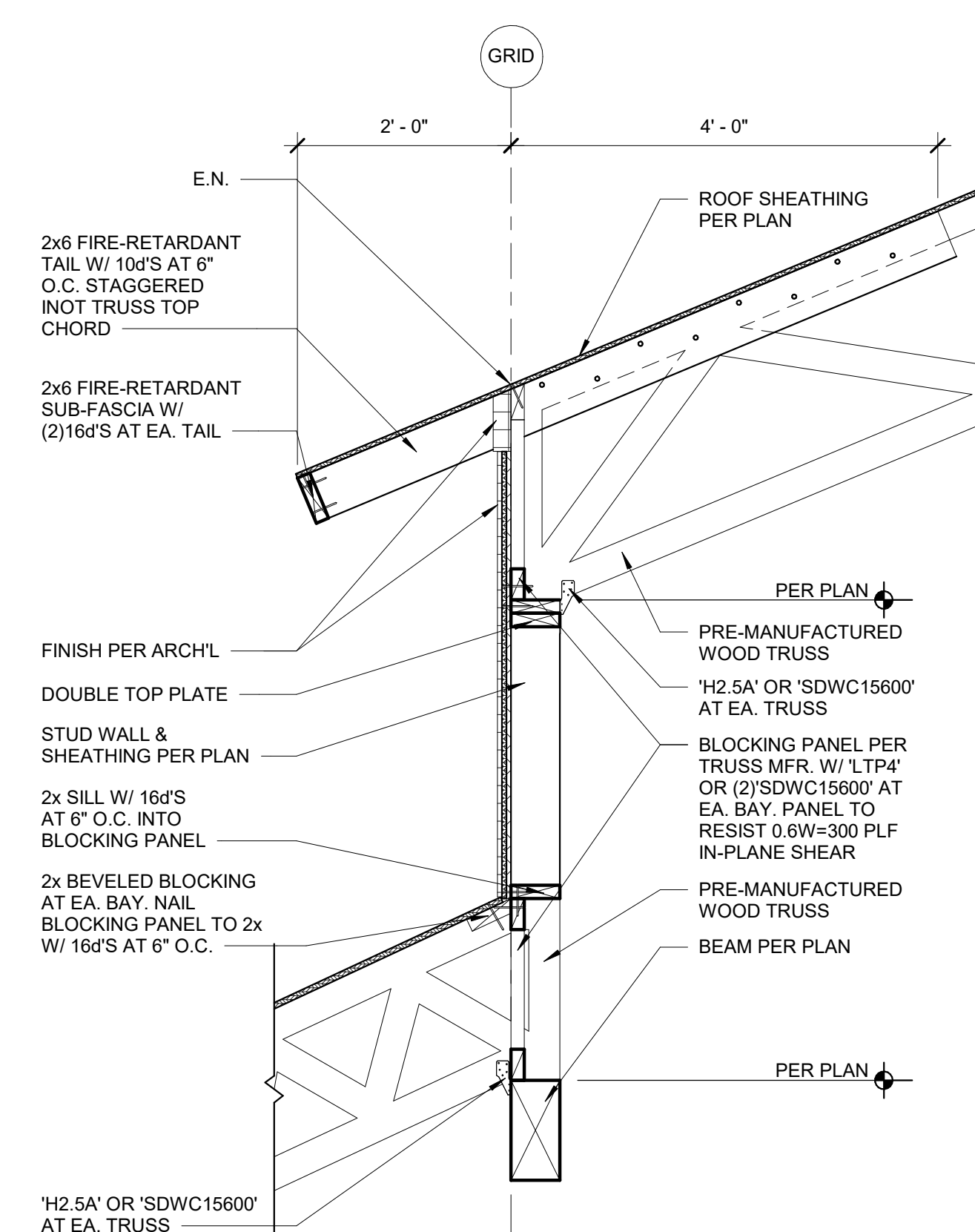
DATE: 3/29/2024
PROJECT NO: 2306.01
SHEET:
S5.1
STRUCTURAL DETAILS



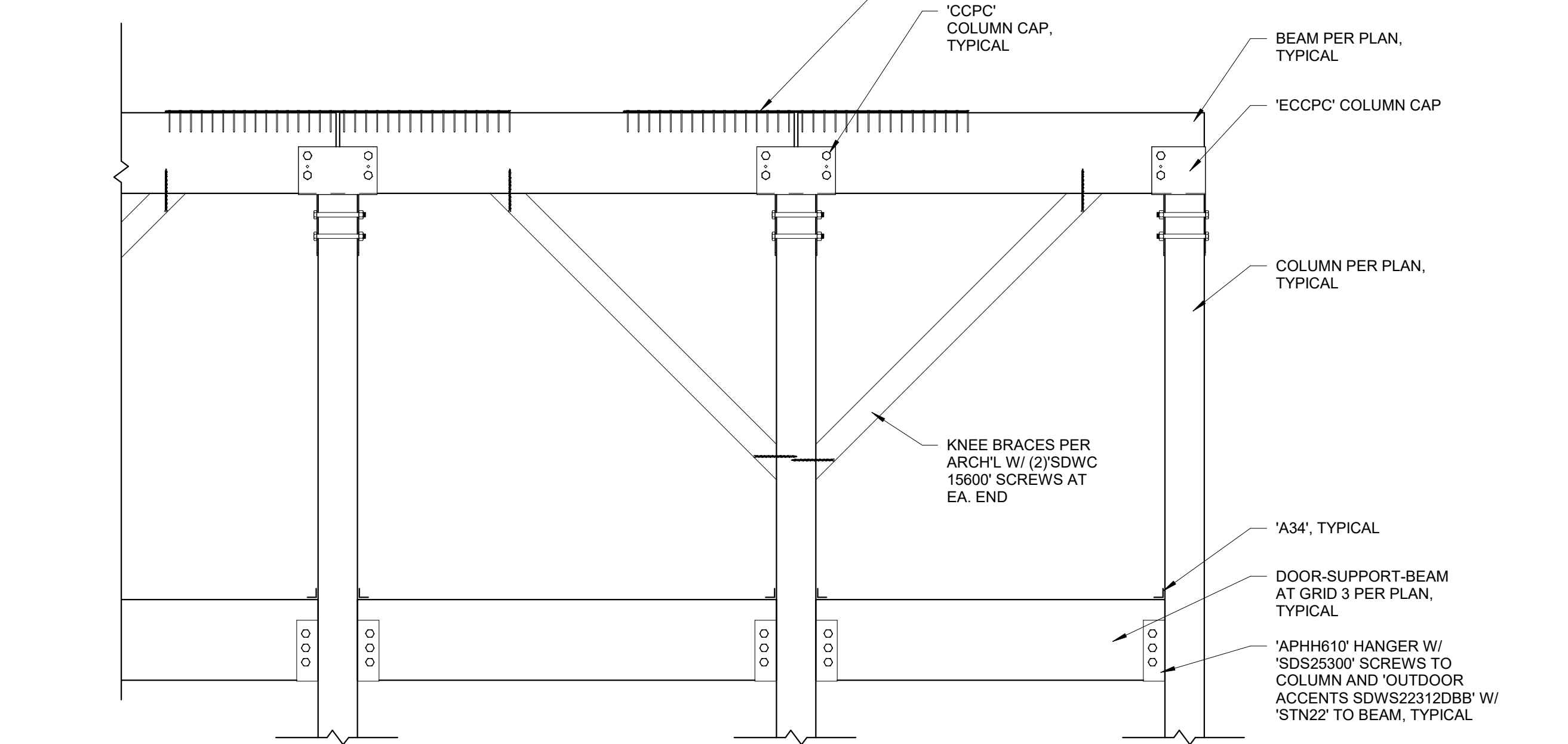
1 ROOF TRUSS AT STUD WALL
3/4" = 1'-0"



2 GABLE END TRUSS AT STUD WALL
3/4" = 1'-0"



7 ROOF TRUSS AT BEAM
3/4" = 1'-0"



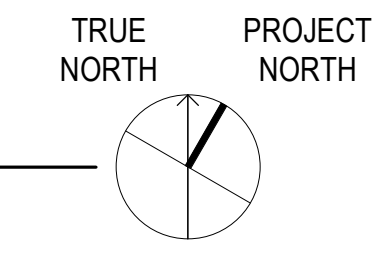
5 INTERIOR BEAMS AT COLUMNS
3/4" = 1'-0"

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1 DEMOLITION SITE PLAN

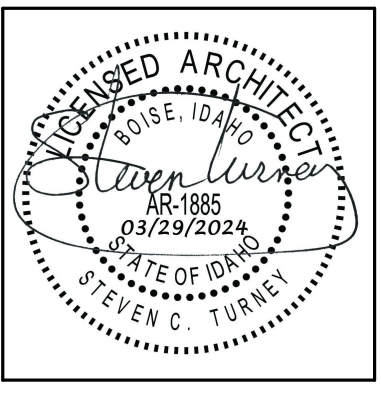
AD101 1" = 20'-0"



KEYNOTES

1	EASEMENT EXCEPTION
2	EXISTING IRRIGATION DITCH
3	EXISTING GATE
4	EXISTING CATTLE GUARD
5	EXISTING FENCE TYP.
6	EXISTING CULVERT
7	EXISTING GRAVEL SURFACE
8	EXISTING MAN GATE
9	EXISTING CORRAL
10	TEMPORARY PARKING, STAGING AREA
11	EXISTING NATURAL DRAINAGE
12	CREATE TEMPORARY 15' GATE IN EXISTING WIRE FENCE
13	60'-0" ROADWAY EASEMENT EXCEPTION
14	EXISTING BARN STRUCTURE TO BE CAREFULLY SALVAGED PER SPECIFICATION SECTION 024116 "STRUCTURE DEMOLITION" AND STORED IN TEMPORARY PARKING, STAGING AREA, PERIMETER RUBBLE FOUNDATION TO BE COMPLETELY REMOVED, STAKE CORNERS FOR NEW FOOTINGS AND FOUNDATION WORK

REVISIONS



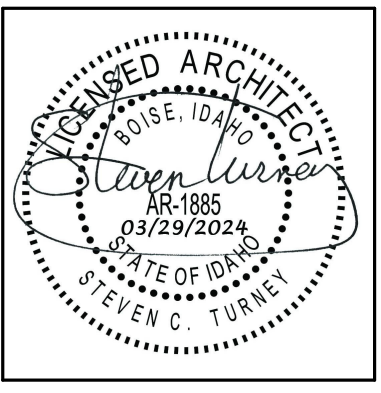
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RINKER ROCK CREEK RANCH BARN REMODEL
FAIRFIELD, IDAHO 83327

DATE: 3/29/2024
PROJECT NO: 2306.01
SHEET:
AD101
DEMOLITION SITE PLAN

KEYNOTES

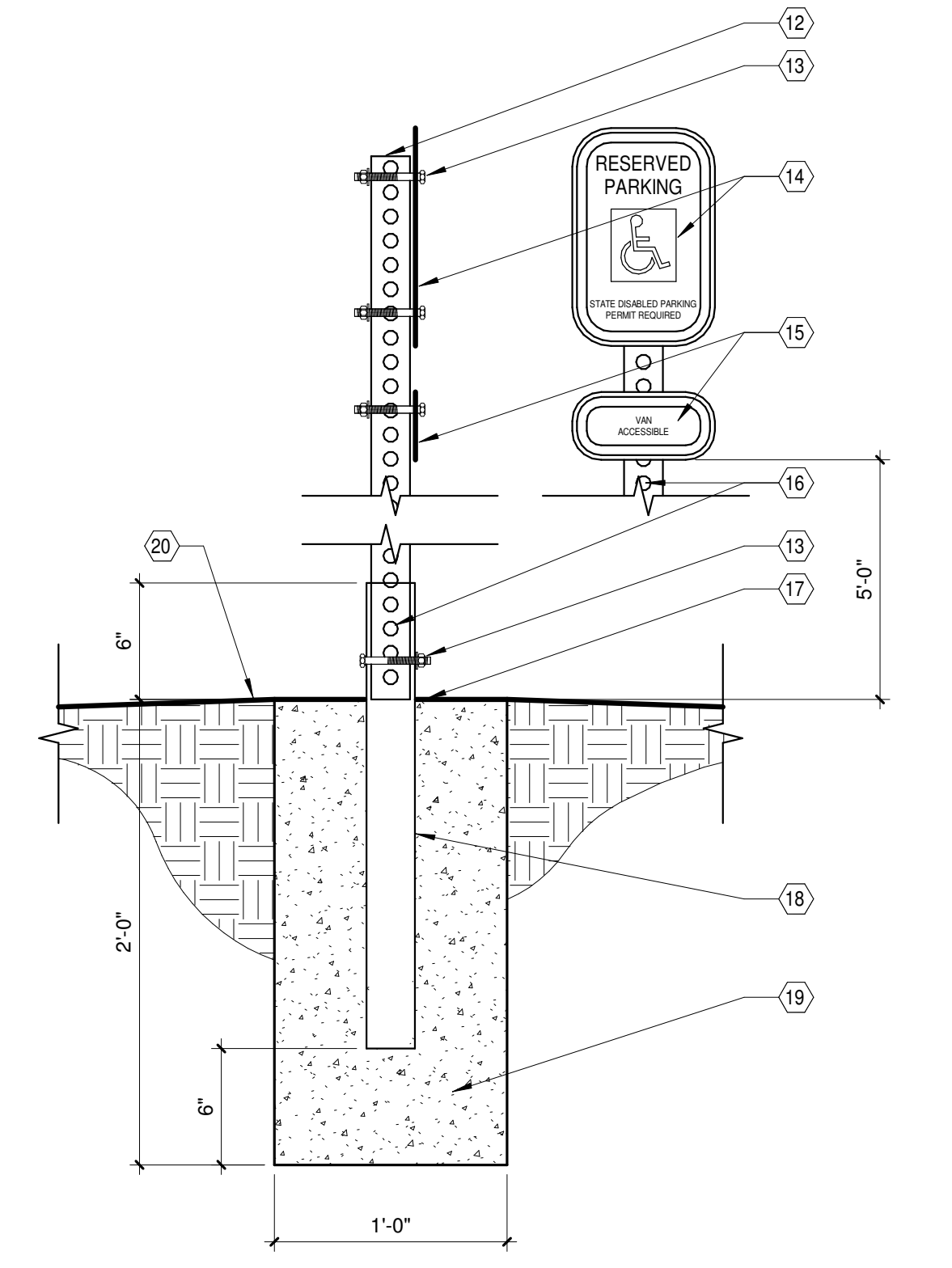
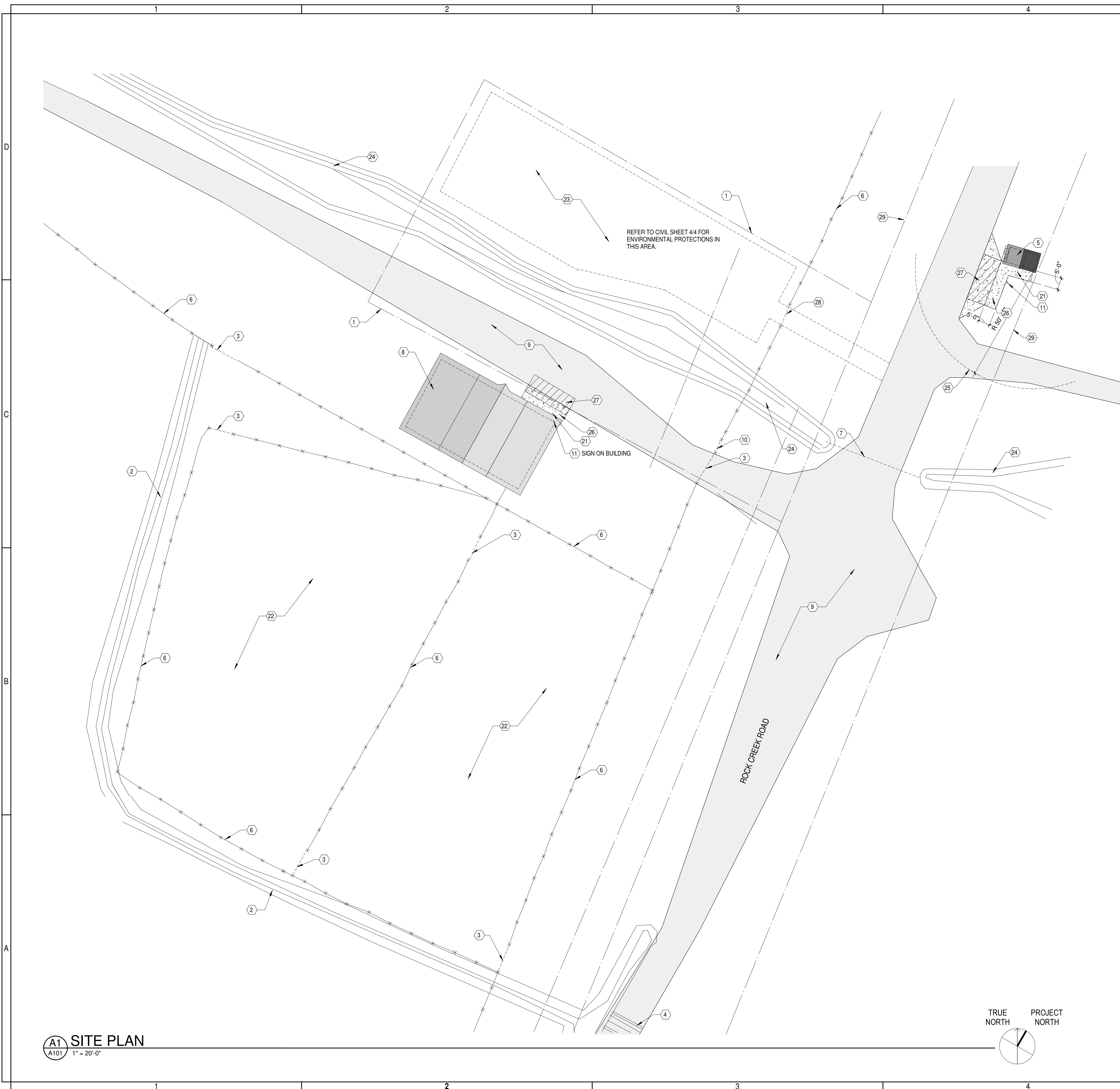
1	EASEMENT EXCEPTION
2	EXISTING IRRIGATION DITCH
3	EXISTING GATE
4	EXISTING CATTLE GUARD
5	VAULT TOILET, MISSOULA CONCRETE CONSTRUCTION, abauer@missoulaconcrete.com, 406-549-9682, BARNWOOD SINGLE VAULT TOILET, GSA TYPE
6	EXISTING FENCE TYP.
7	EXISTING CULVERT
8	BARN
9	EXISTING GRAVEL SURFACE
10	EXISTING MAN GATE
11	ACCESSIBLE PARKING SIGNAGE, SEE DETAIL B5/A101
12	TOP OF POST 1/2" BELOW TOP OF SIGN
13	3/8" X 3 1/2" CADMIUM PLATED HEX HEAD BOLT WITH FLAT LOCK WASHER AND NUT
14	SIGNAGE WITH 1" WHITE LETTERING AND "STATE DISABLED PARKING PERMIT REQUIRED"
15	PROVIDE SIGN THAT IDENTIFIES VAN ACCESSIBLE STALLS
16	2" X 2" X 10" (MINIMUM) SQUARE GALVANIZED PERFORATED SIGN POST (12 GAUGE) MIN. WALL THICKNESS, CENTERED ON ACCESSIBLE STALL
17	SLOPE TOP OF CONCRETE TO ENSURE POSITIVE DRAINAGE AWAY FROM SIGN POST
18	2 1/2" X 2 1/2" X 18" LONG ANCHOR POST, NON-PERFORATED (12 GAUGE) MIN. WALL THICKNESS
19	CONCRETE FOOTING
20	FINISH GRADE
21	DOOR LANDING AND WALK, COMPACTED GRAVEL BASE 95% PROCTOR AT DOOR LANDING, 1/2" SLOPE MAXIMUM, SIDE SLOPES FROM LANDING 1:10 MAXIMUM SLOPE
22	EXISTING CORRAL
23	TEMPORARY PARKING, STAGING AREA
24	EXISTING NATURAL DRAINAGE
25	CLEARANCE FROM EXISTING NATURAL DRAINAGE
26	ACCESSIBLE PASSENGER LOADING ZONE ACCESS AISLE, 5'-0"x 20'-0", COMPACTED GRAVEL BASE 95% PROCTOR
27	ACCESSIBLE PARKING, 8'-0"x 20'-0"
28	CREATE TEMPORARY 15' GATE IN EXISTING WIRE FENCE
29	60'-0" ROADWAY EASEMENT EXCEPTION



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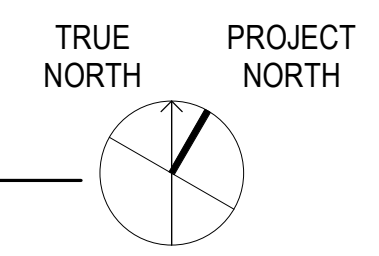
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RINKER ROCK CREEK RANCH BARN REMODEL
FAIRFIELD, IDAHO 83327

DATE: 3/29/2024
PROJECT NO: 2306.01
SHEET:
A101
SITE PLAN



B5 ACCESSIBLE PARKING SIGN AND POST
A101 1 1/2" = 1'-0"

A1 SITE PLAN
A101 1" = 20'-0"

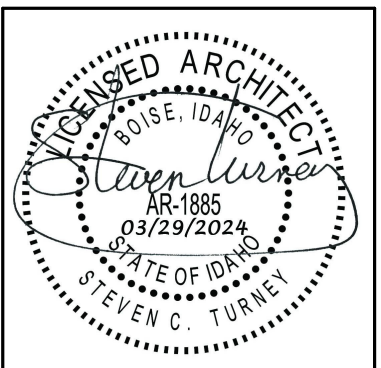


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KEYNOTES

1	BATTERY STORAGE RACK, INVERTER
2	BARN DOOR, BOX RAILS AND ROLLERS
3	COLUMNS
4	WALL LINE ABOVE
5	COUNTER AND CASEWORK
6	FLAT SCREEN MONITOR, 65" SONY BRAVIA B7401 AND MOUNTING BRACKET CHIEF MFG. INC. PDR-2000
7	REFRIGERATOR
8	DRYER
9	PRE-FINISHED STANDING SEAM METAL ROOFING
10	PHOTOVOLTAIC CELL
11	LINE OF WALL BELOW
12	WALL HEATER
13	INTUMESCENT BACKED LOUVER
14	LOUVER
16	LADDER
17	SMOKE DETECTOR, BATTERY OPERATED
18	LINE OF ROOF ABOVE
19	FIRE EXTINGUISHER AND HOOK
20	FIRE EXTINGUISHER SIGNAGE

REVISIONS

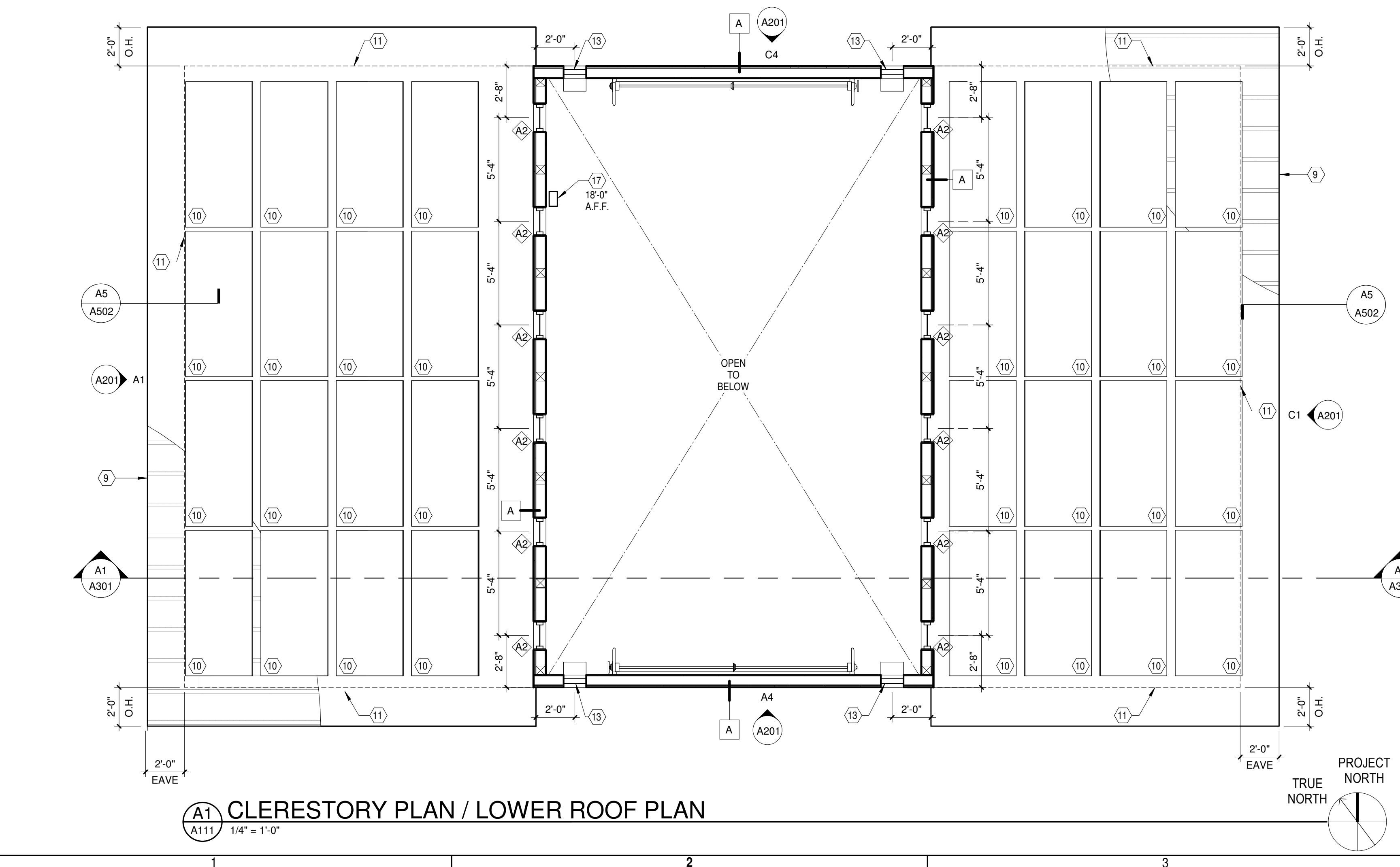
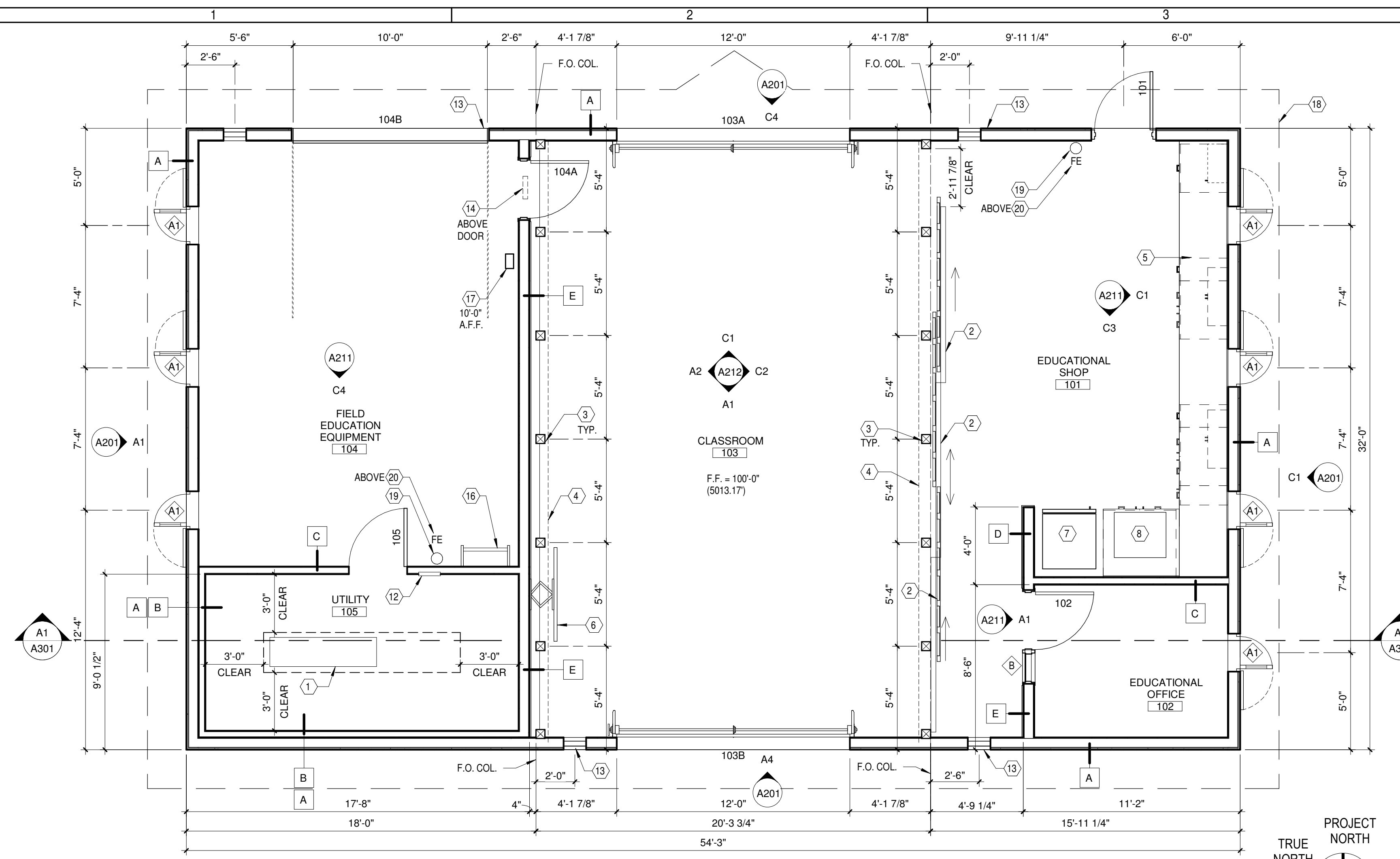


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FAIRFIELD, IDAHO 83327

DATE: 3/29/2024
PROJECT NO: 2306.01

SHEET:
A111
FLOOR PLAN
CLERESTORY PLAN

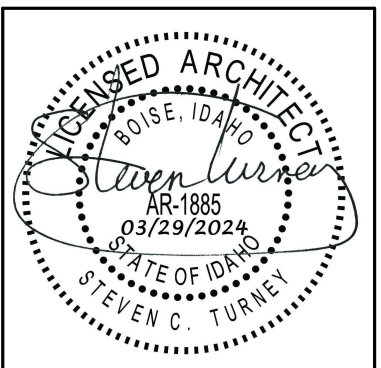


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KEYNOTES

1	PHOTOVOLTAIC CELL
2	STANDING SEAM METAL ROOF
3	LINE OF WALL BELOW
4	4'-0" SURFACE MOUNT LIGHT FIXTURE
5	4'-0" PENDANT LIGHT FIXTURE, SUSPEND FROM CEILING ABOVE
6	FIRE SUPPRESSION SYSTEM
7	SMOKE DETECTOR, BATTERY OPERATED
8	INTERIOR PAINT IP-1
9	SALVAGED 4X6 COLUMNS USED AS COLLAR TIES
10	2'-0"x2'-0" ACCESS DOOR
11	OPEN FRAMING AND SHEATHING, PAINT EP-1
12	FIRE RESISTIVE FASCIA, PAINT EP-2 AT OUTSIDE AND BOTTOM SURFACE, PAINT BACKSIDE EP-1

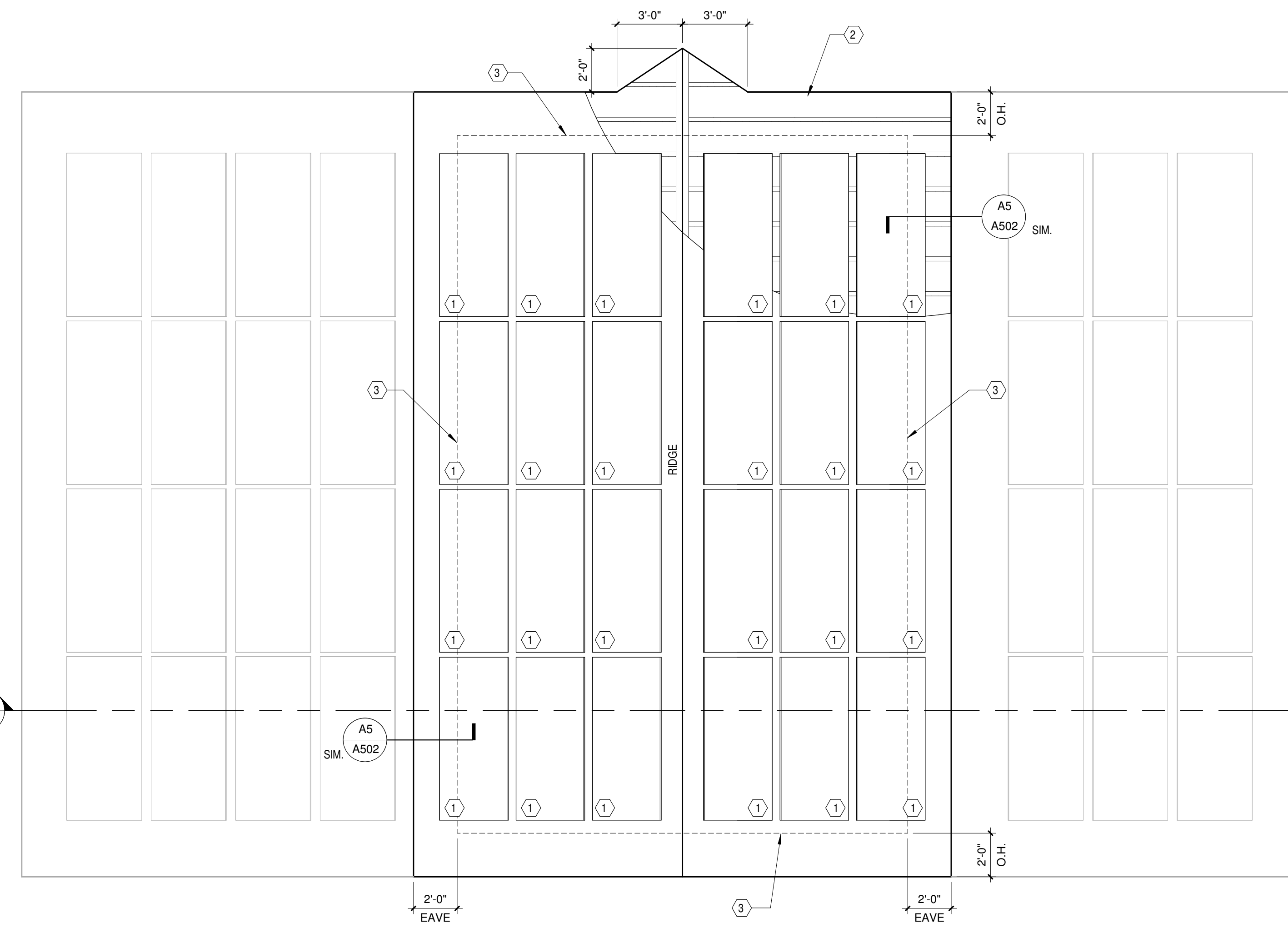
REVISIONS



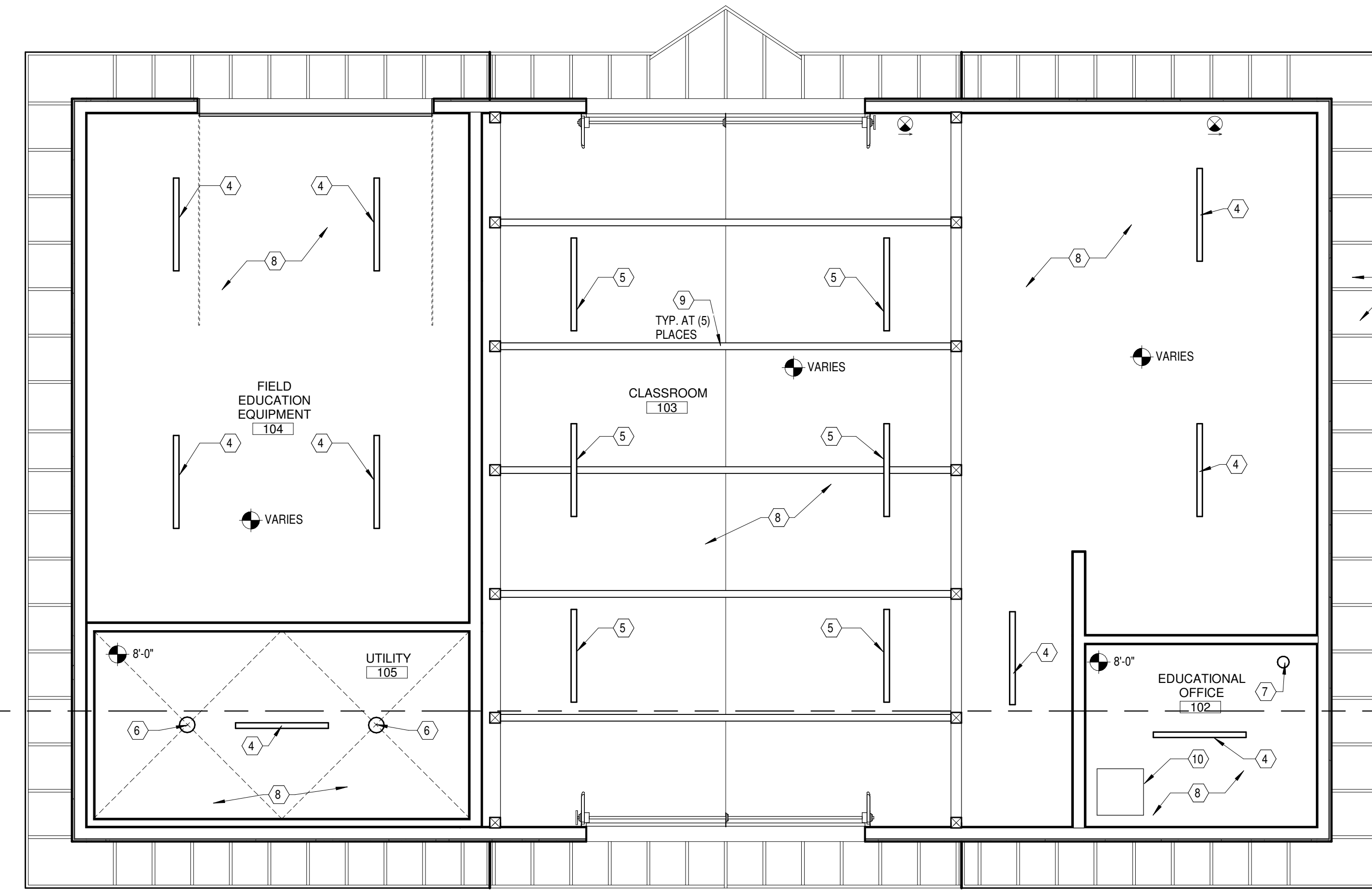
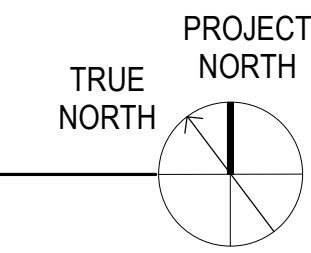
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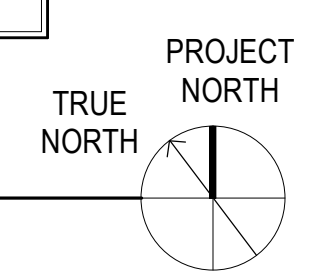
DATE: 3/29/2024
 PROJECT NO: 2306.01
 SHEET:
A121
 REFLECTED CLG. PLAN
 UPPER ROOF PLAN



C1 UPPER ROOF PLAN
 A121 1/4" = 1'-0"



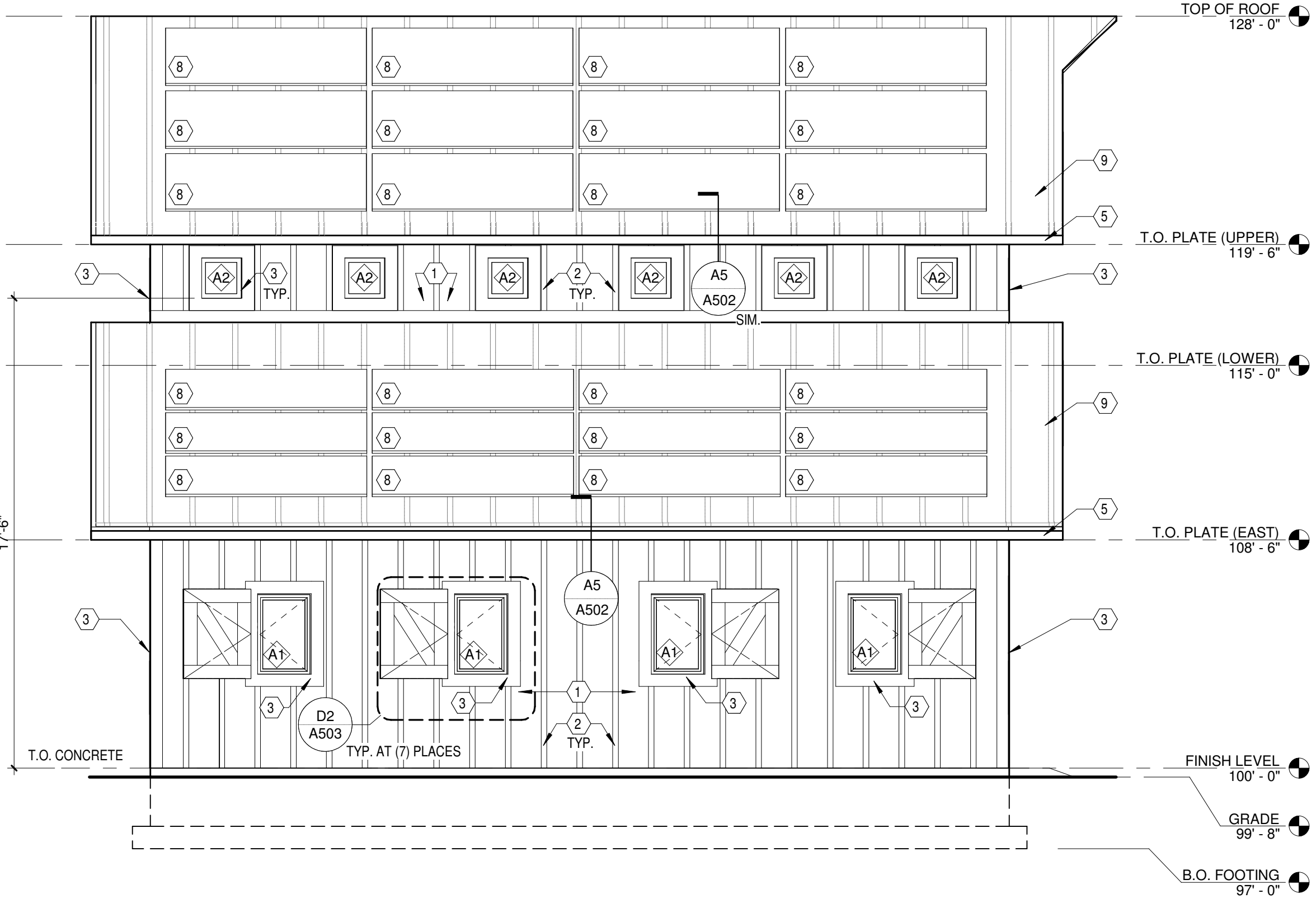
A1 REFLECTED CEILING PLAN
 A121 1/4" = 1'-0"



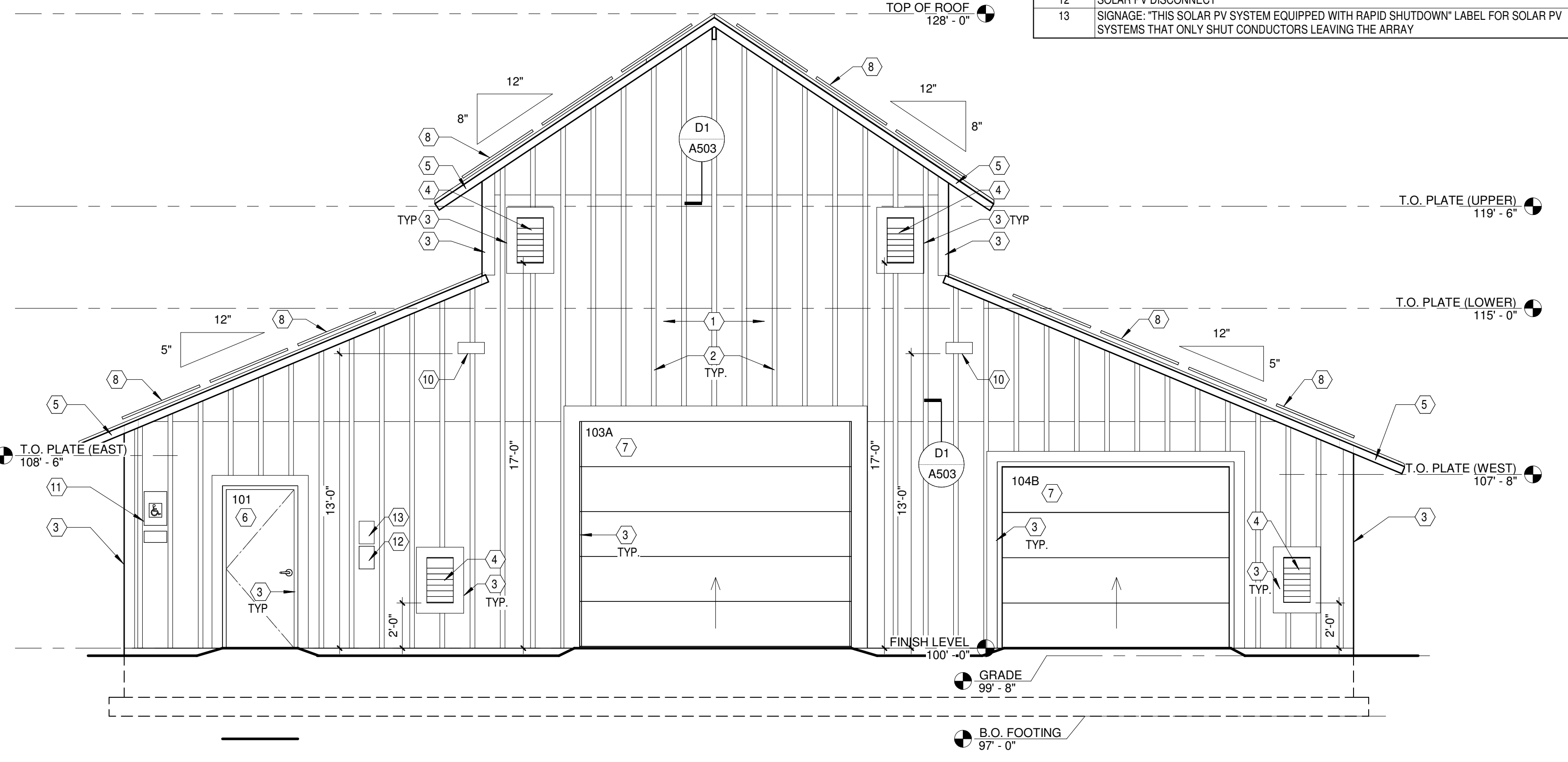
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KEYNOTES

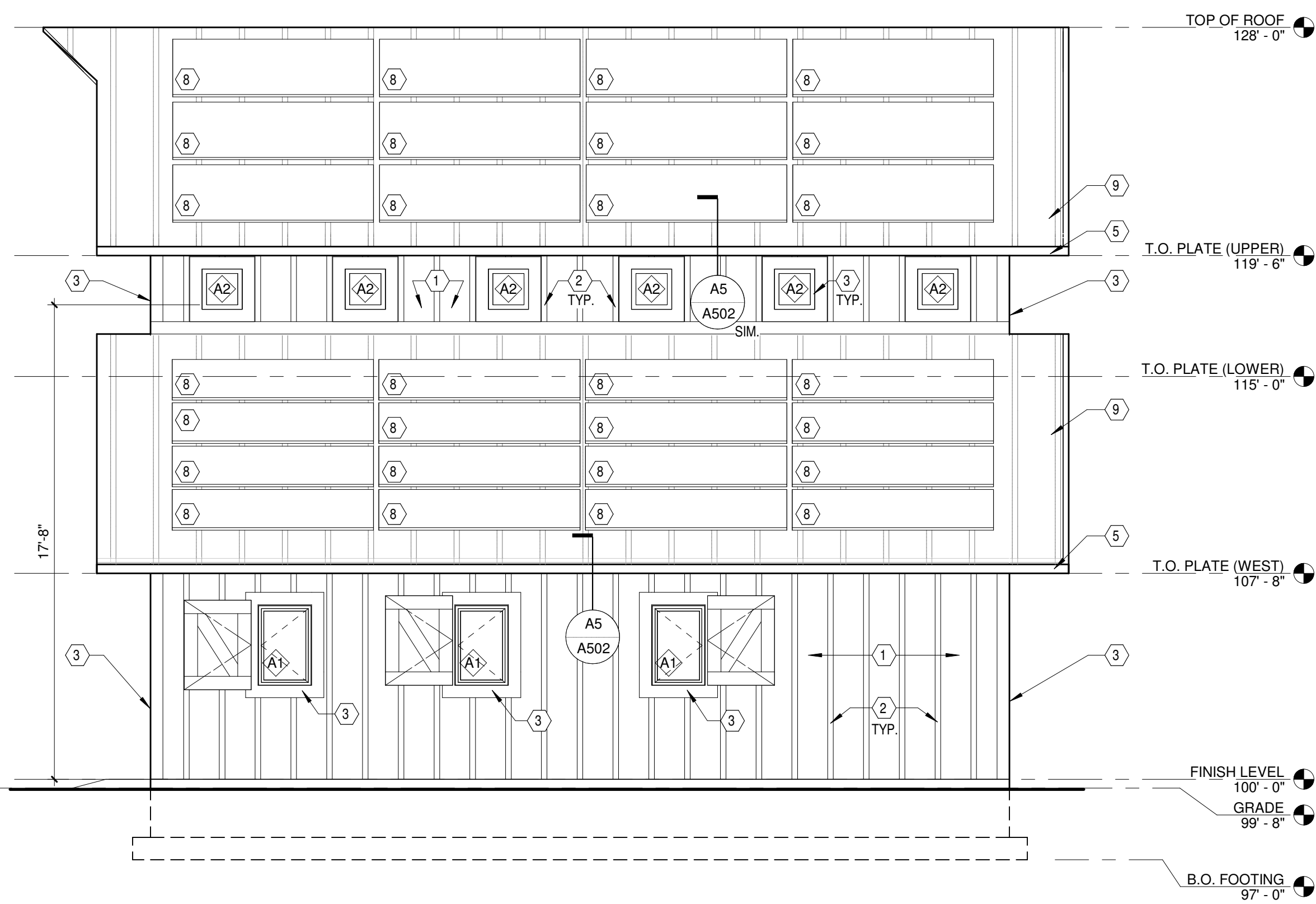
1	CEMENTITIOUS SIDING 4x10', PRIMED, PAINT EP-1
2	CEMENTITIOUS BATTEN, 3/4x 2-1/2' AT 16" O.C., PRIMED, PAINT EP-1
3	CEMENTITIOUS TRIM, 1"x 5-1/2", PRIMED, PAINT EP-2
4	INTUMESCENT BACKED LOUVER
5	FIRE RESISTIVE TREATED FASCIA, PAINT EP-1 AT OUTSIDE AND BOTTOM SURFACE, PAINT BACKSIDE EP-1
6	INSULATED HOLLOW METAL DOOR AND FRAME, PRIMED, PAINT EP-1
7	INSULATED UPWARD ACTING SECTIONAL DOOR, PAINT EP-1
8	PHOTOVOLTAIC CELL
9	PRE-FINISHED STANDING SEAM METAL ROOFING
10	LIGHT FIXTURE
11	ACCESSIBLE PARKING SIGNAGE
12	SOLAR PV DISCONNECT
13	SIGNAGE: "THIS SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN" LABEL FOR SOLAR PV SYSTEMS THAT ONLY SHUT CONDUCTORS LEAVING THE ARRAY



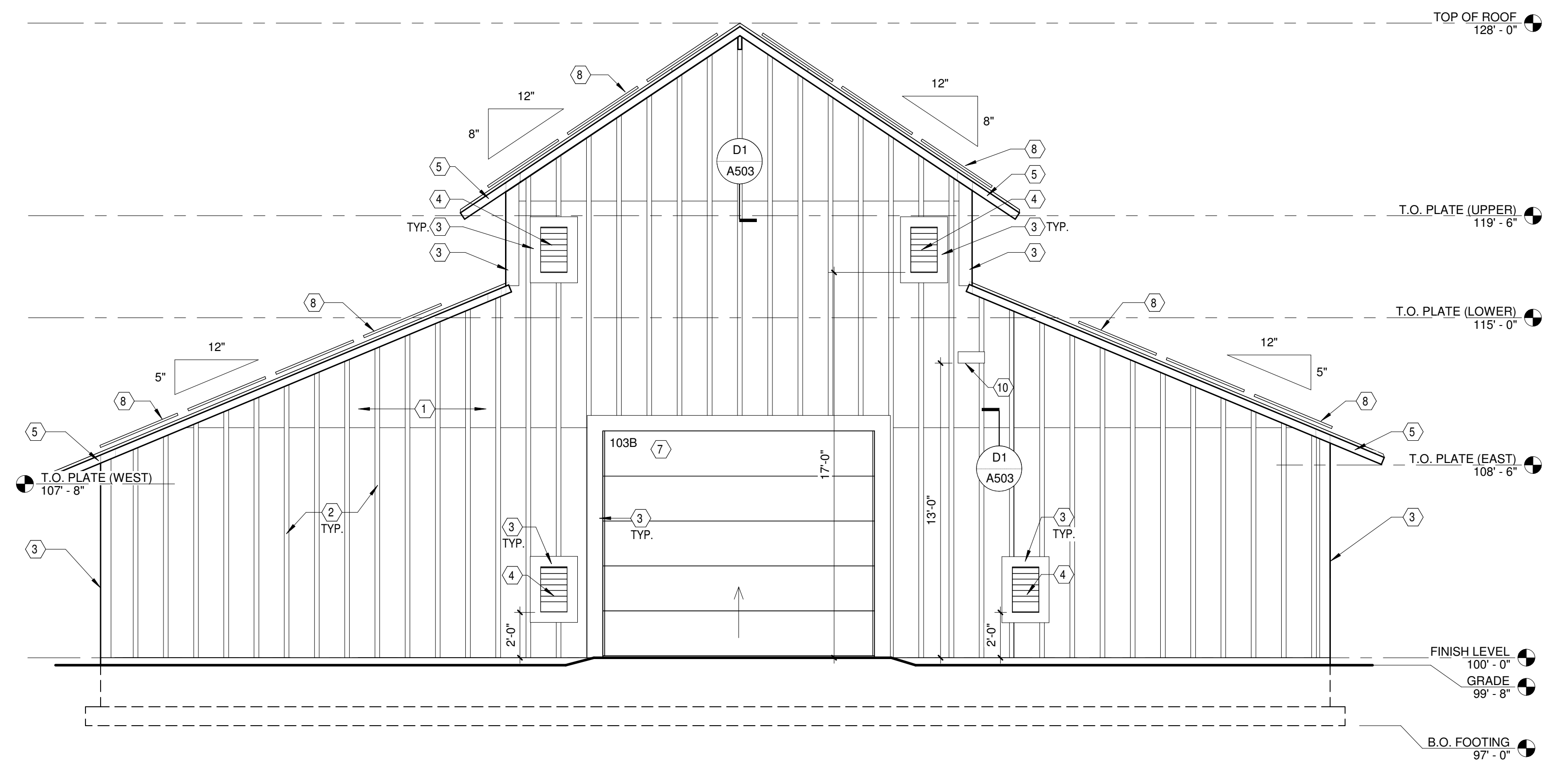
C1 EAST ELEVATION
A201 1/4" = 1'-0"



C4 NORTH ELEVATION
A201 1/4" = 1'-0"



A1 WEST ELEVATION
A201 1/4" = 1'-0"



A4 SOUTH ELEVATION
A201 1/4" = 1'-0"



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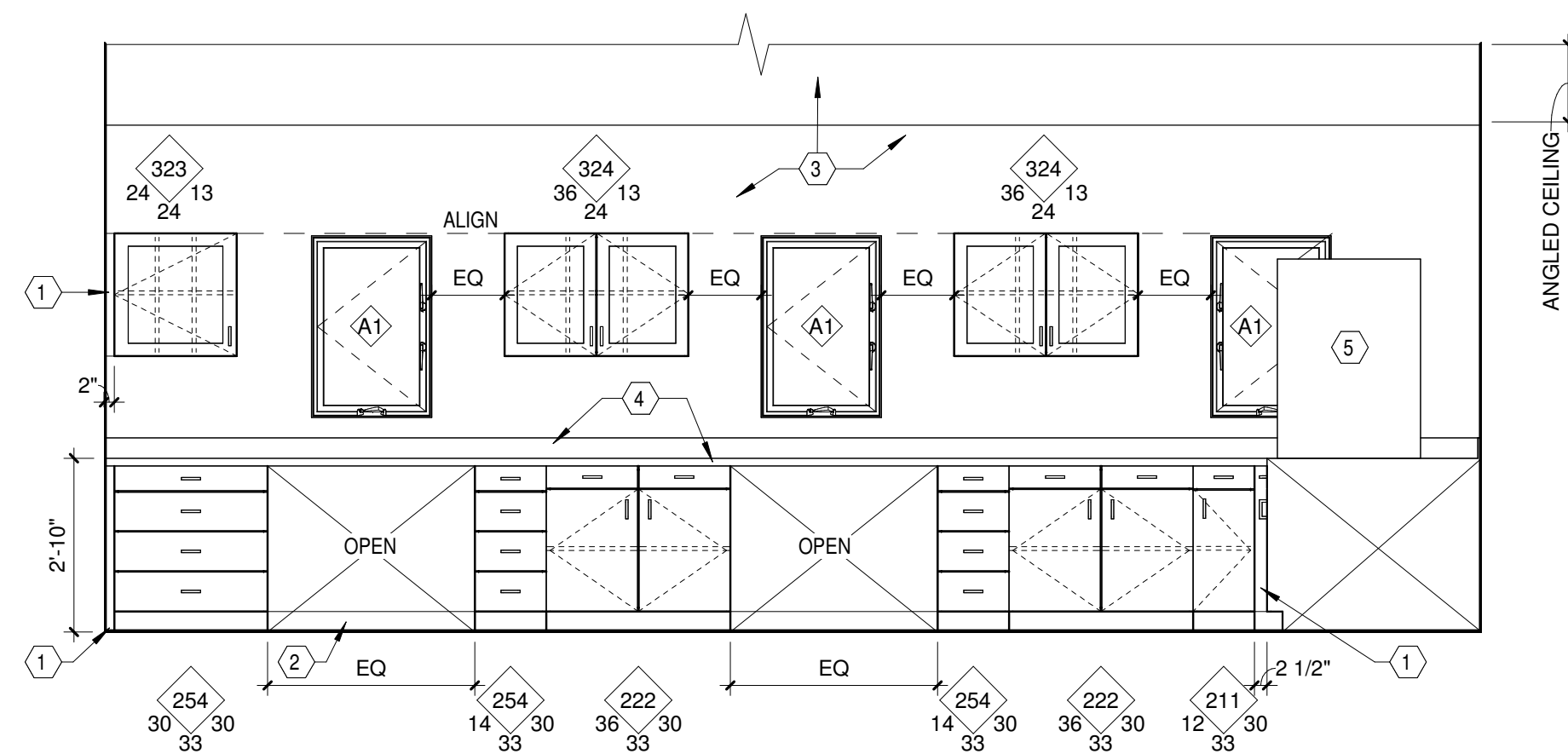
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DATE: 3/29/2024
PROJECT NO: 2306.01
SHEET:
A201
BUILDING ELEVATIONS

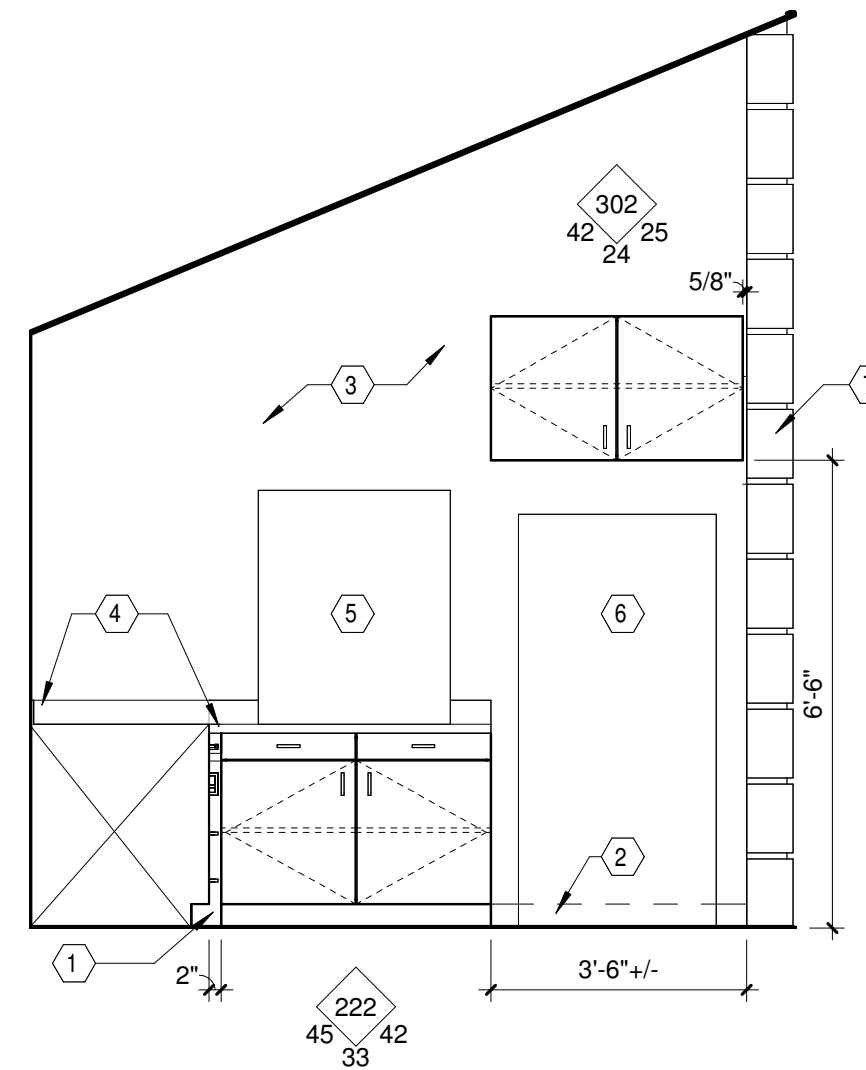
KEYNOTES

1	SCRIBE FILLER
2	WALL BASE RB-1
3	INTERIOR PAINT IP-1
4	COUNTERTOP AND SPLASH SS-1
5	DRYER C.F.C.I.
6	REFRIGERATOR / FREEZER C.F.C.I.
7	SALVAGED 1"X11-1/2" LUMBER WITH 1" GAP, BACKING GYPSUM BOARD PAINTED IP-2
8	FIRE SUPPRESSION CONTROL
9	FIRE SUPPRESSION DISCHARGE ABORT SWITCH
10	FIRE SUPPRESSION MANUAL RELEASE SWITCH
11	FIRE EXTINGUISHER AND HOOK
12	FIRE EXTINGUISHER SIGNAGE
13	SIGNAGE: "THIS ROOM CONTAINS ENERGIZED BATTERY SYSTEMS" AND "THIS ROOM CONTAINS ENERGIZED ELECTRICAL CIRCUITS."

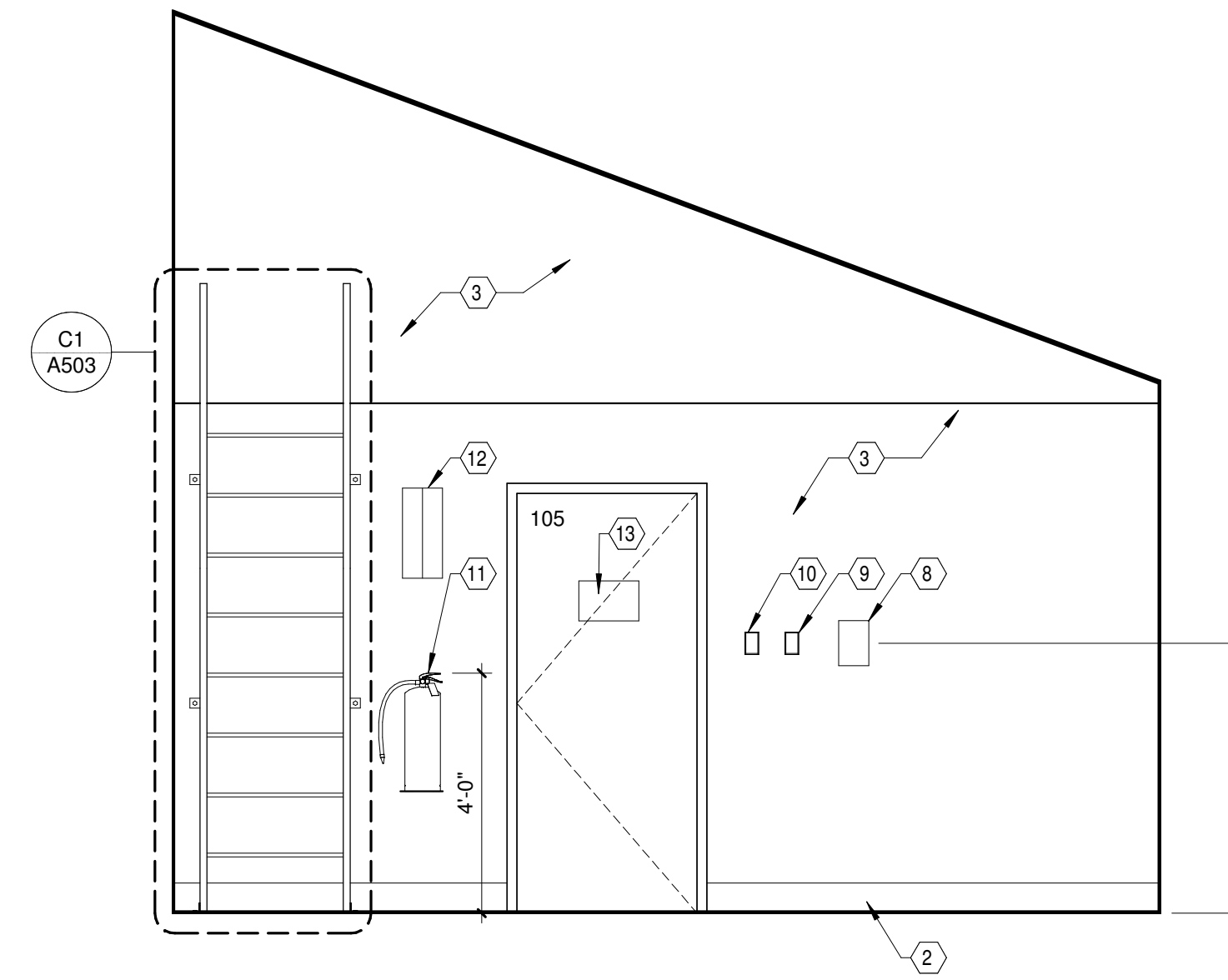
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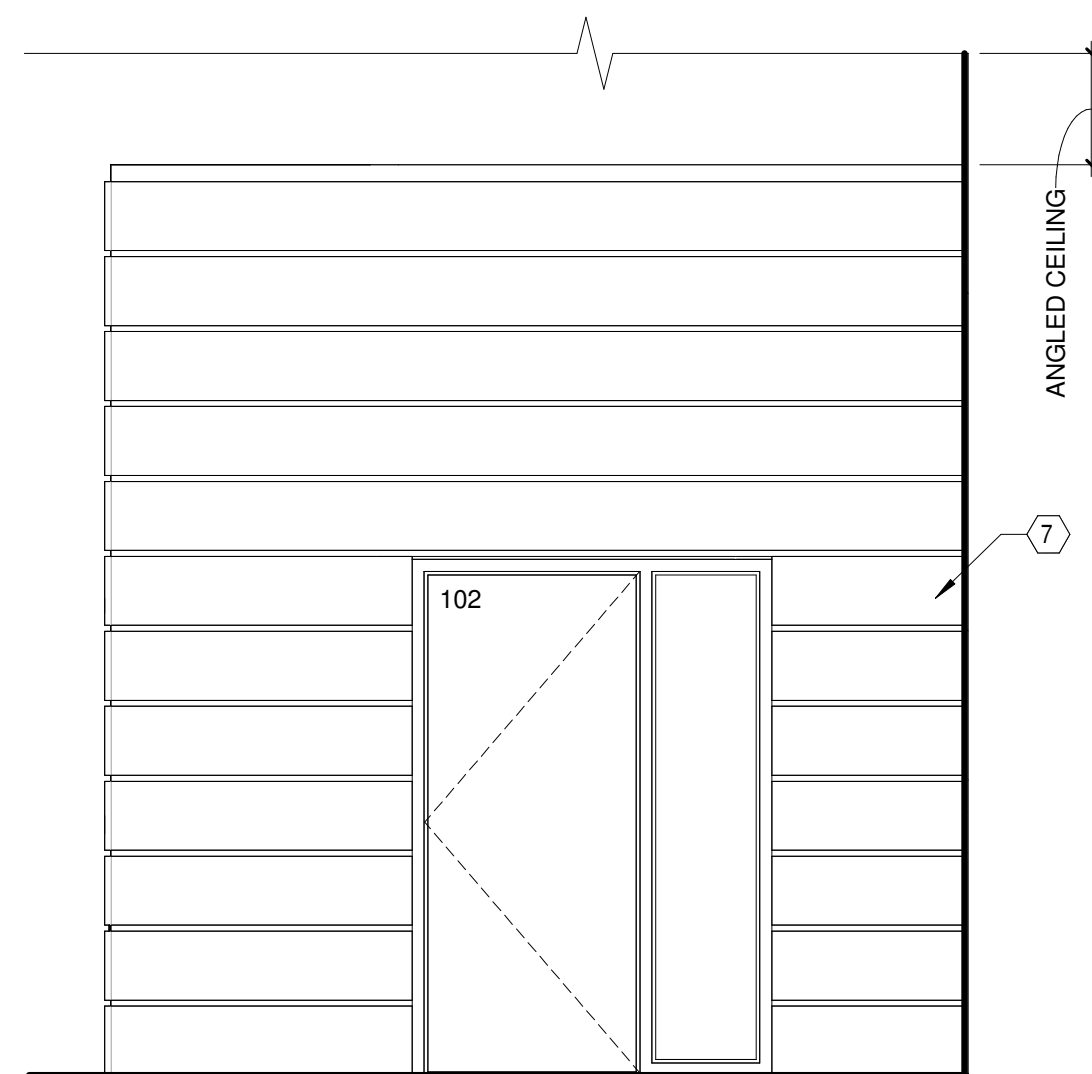
C1 EDUCATION SHOP 101 EAST
A211 3/8" = 1'-0"



C3 ED SHOP 101 SOUTH
A211 3/8" = 1'-0"

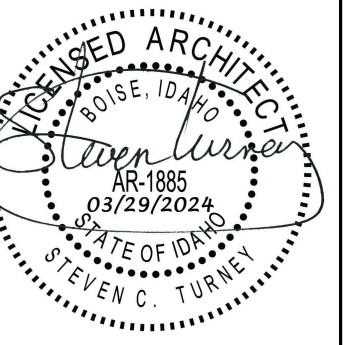


C4 FIELD EDUCATION EQUIPMENT 104 SOUTH
A211 3/8" = 1'-0"



A1 EDUCATIONAL SHOP 101
A211 3/8" = 1'-0"

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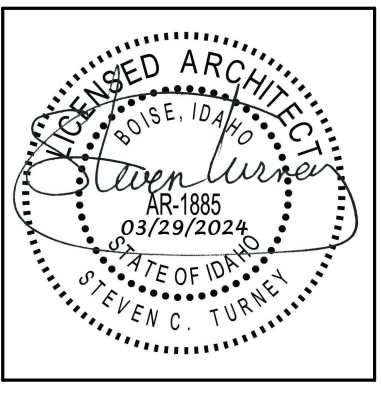
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RINKER ROCK CREEK RANCH BARN REMODEL
FAIRFIELD, IDAHO 83327

DATE: 3/29/2024
PROJECT NO: 2306.01
SHEET:
A211
INTERIOR ELEVATIONS

KEYNOTES

1	EXPOSED WOOD BEAM PER STRUCTURAL
2	EXPOSED WOOD COLUMN PER STRUCTURAL
3	SALVAGED 4X6 DF-CIP KNEE BRACE
4	SALVAGED 4X6 COLUMNS USED AS COLLAR TIES
5	INTUMESCENT LOUVER
6	WALL BASE RB-1
7	INTERIOR PAINT IP-1
8	TELEVISION MONITOR
9	SALVAGED 1"X11-1/2" LUMBER WITH 1" GAP, BACKING GYPSUM BOARD PAINTED IP-2

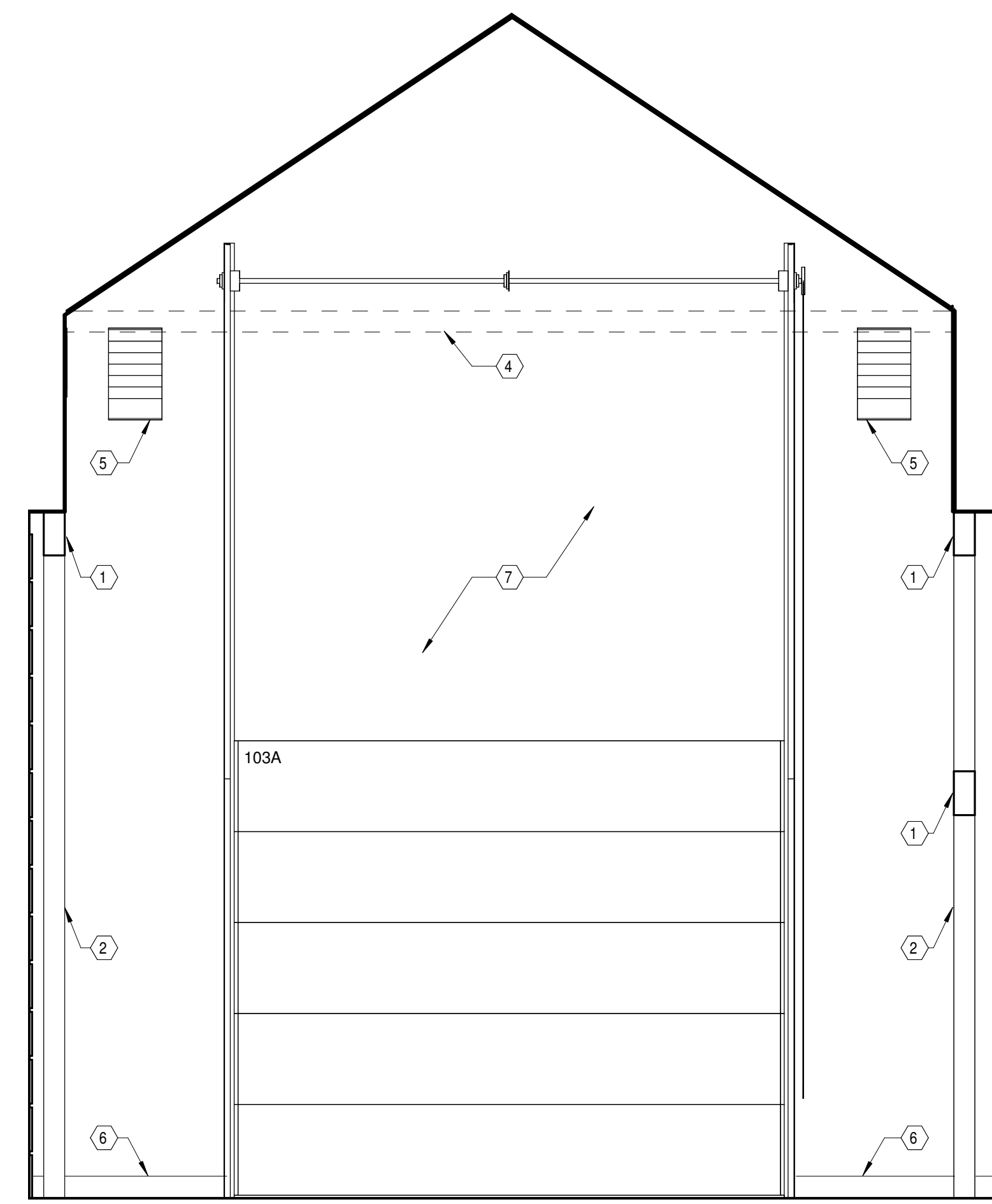


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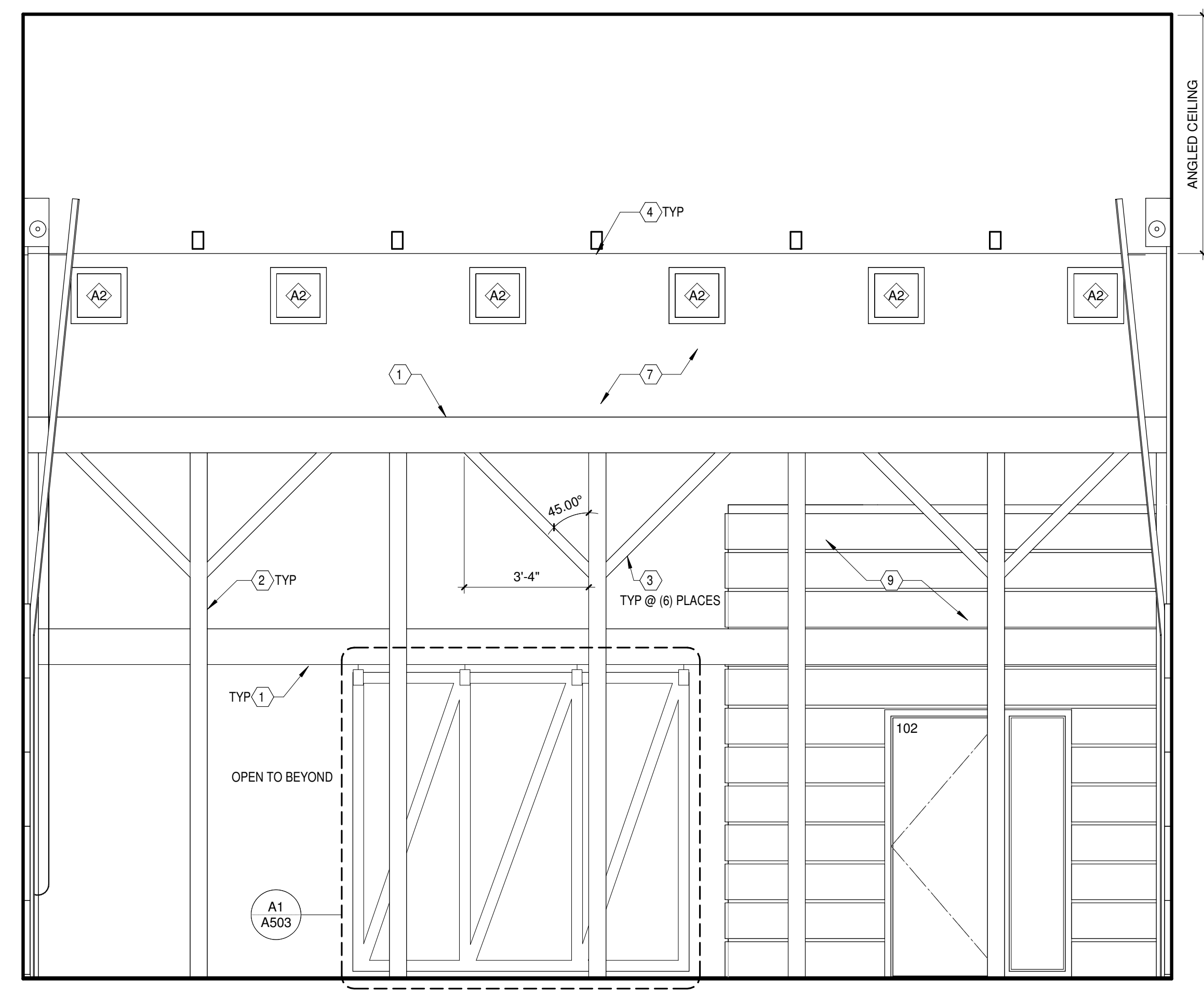
UNIVERSITY OF IDAHO
RINKER ROCK CREEK RANCH BARN REMODEL
FAIRFIELD, IDAHO 83327

DATE: 3/29/2024
PROJECT NO: 2306.01
SHEET:

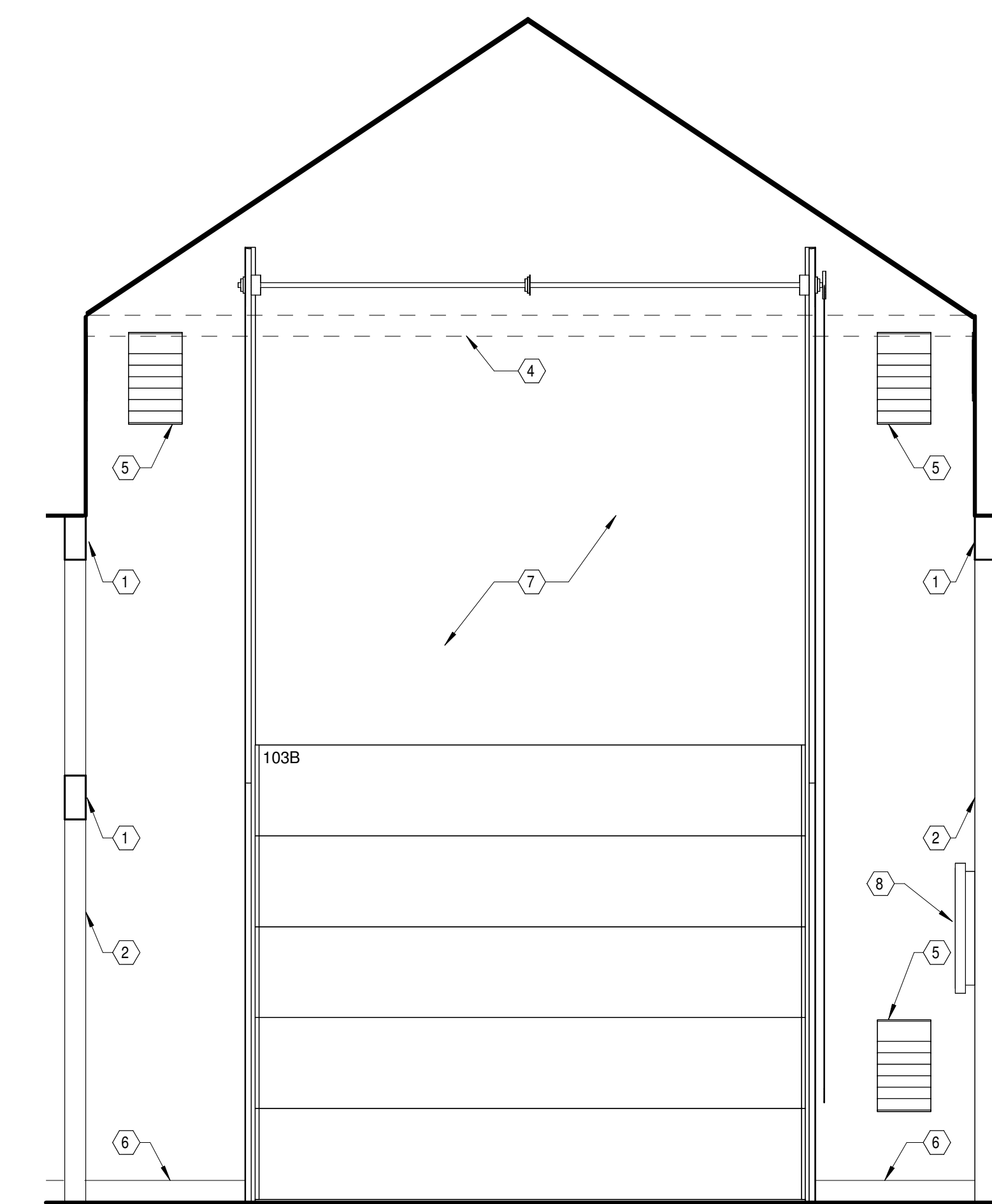
A212
INTERIOR ELEVATIONS



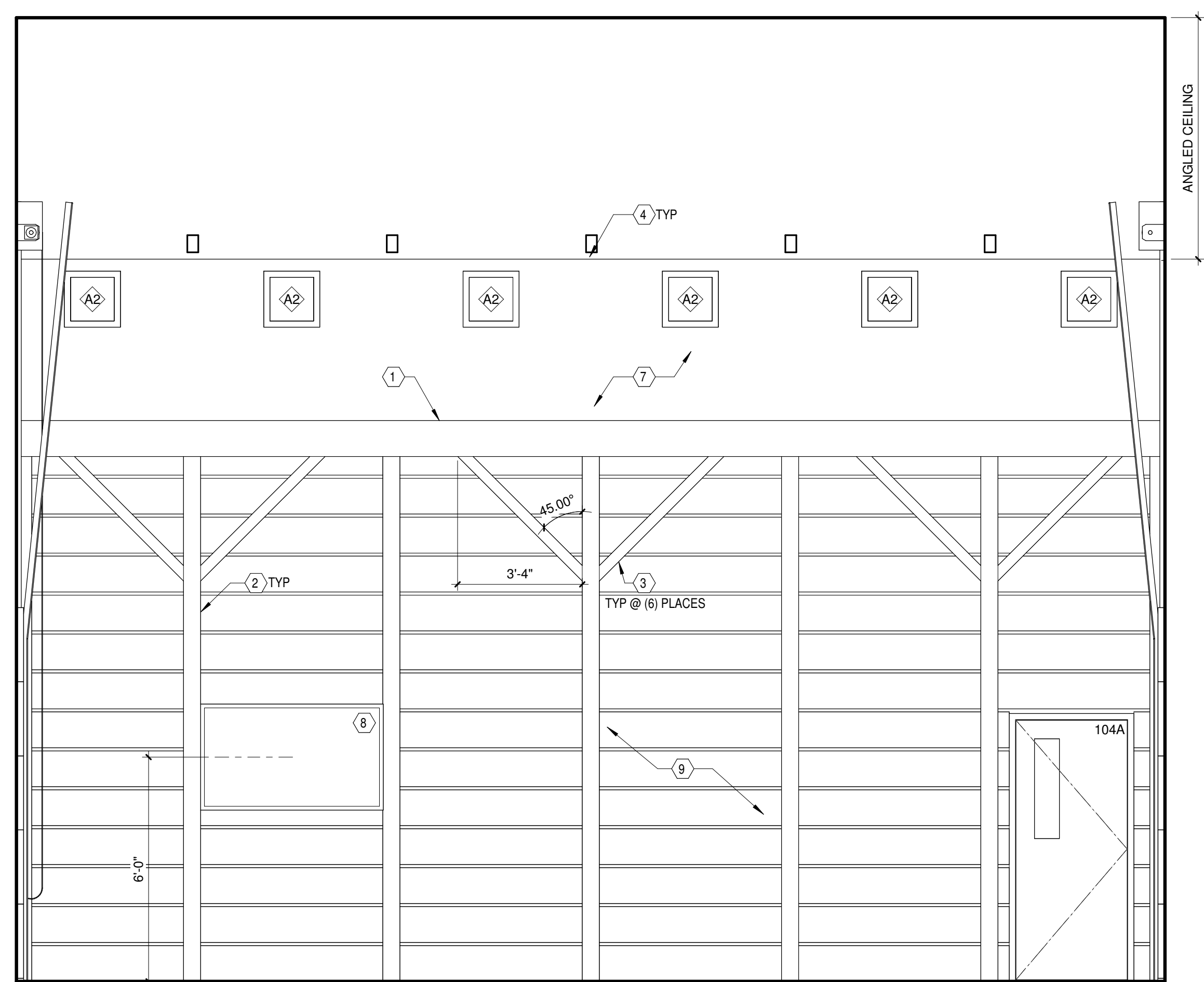
C1 CLASSROOM 103 NORTH
A212 3/8" = 1'-0"



C2 CLASSROOM 103 EAST
A212 3/8" = 1'-0"



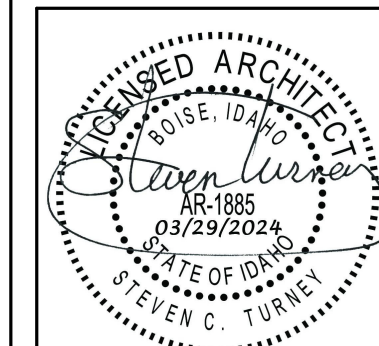
A1 CLASSROOM 103 - SOUTH
A212 3/8" = 1'-0"



A2 CLASSROOM 103 WEST
A212 3/8" = 1'-0"

KEYNOTES

- 1 2" RIGID INSULATION
- 2 REINFORCED CONCRETE FOOTING AND STEM WALL
- 3 INTERIOR REINFORCED CONCRETE FOOTING AND FOUNDATION
- 4 SALVAGED 4X6 COLUMNS USED AS COLLAR TIES
- 5 EXPOSED WOOD COLUMN PER STRUCTURAL



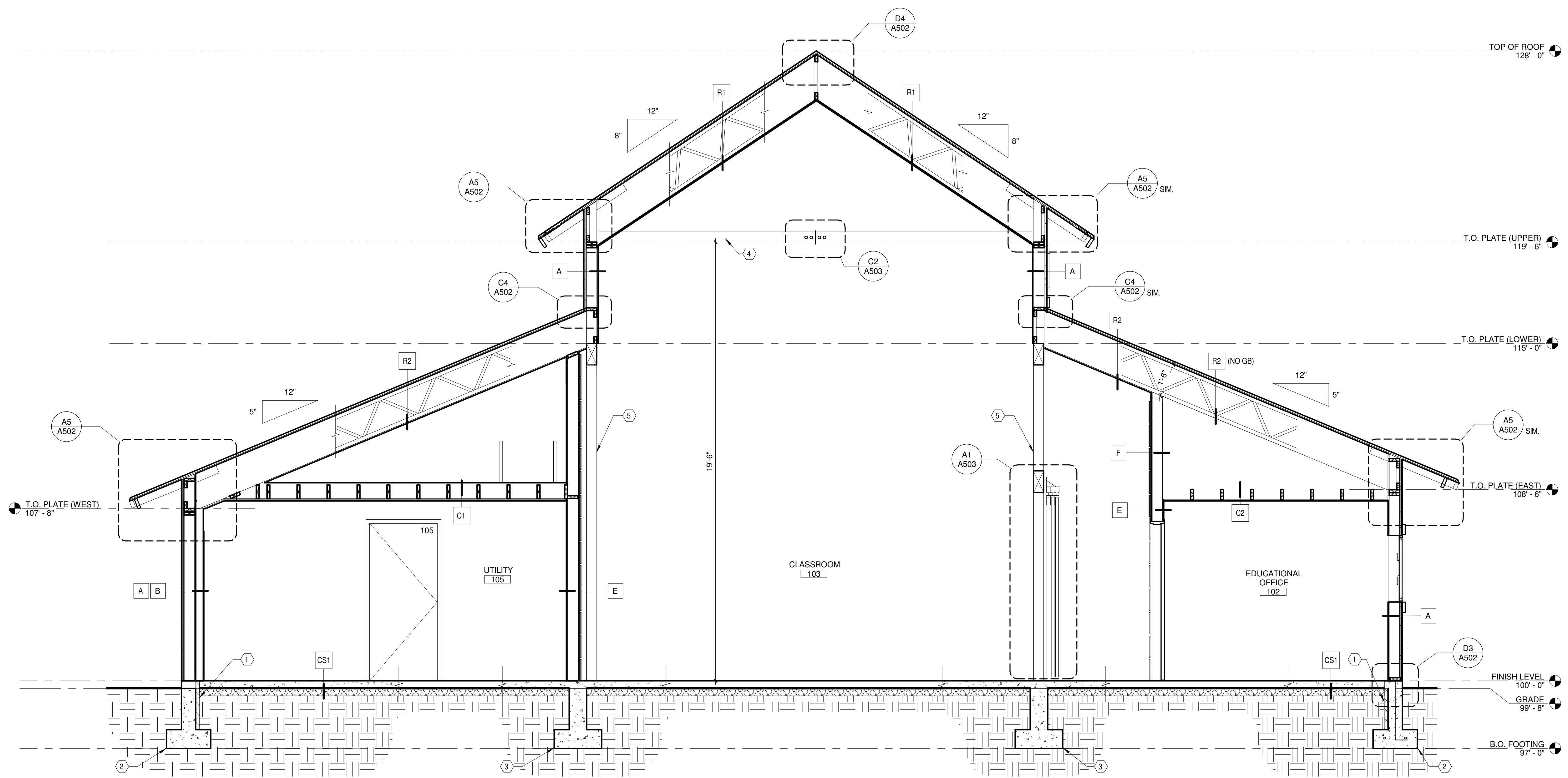
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DATE: 3/29/2024
 PROJECT NO: 2306.01

SHEET:
A301

BUILDING SECTIONS



A1 NORTH SECTION
 3/8" = 1'-0"

4/4/2024 4:27:01 PM C:\Users\lance\Documents\2306.01 ROCK CREEK BARN R22_lanceSVYK2.vt

WALL ASSEMBLIES

SYMBOL	DETAIL	DESCRIPTION	WALL HEAD TERMINATION
A		LOAD BEARING COMBUSTIBLE NON-RATED 7 3/8" EXTERIOR CEMENTITIOUS TRIM CEMENTITIOUS SIDING R-3 CONTINUOUS INSULATED "ZIP" SHEATHING 2x6 WOOD STUD AT 16" O.C. (1) LAYER 5.5" HEMPWOOL FIBER BATT INSULATION VAPOR RETARDER 5/8" TYPE "X" GYPSUM BOARD INTERIOR	TO STRUCTURE
B		NON-LOAD BEARING COMBUSTIBLE (1) HR. RATED PER UL DESIGN U305 (ASSEMBLY) EXTERIOR 5/8" TYPE "X" GYPSUM BOARD (ADJACENT CONSTRUCTION) 3 1/2" GLASS FIBER SOUND ATTENUATION BATT 2x4 STUD AT 16" O.C. VAPOR RETARDER 5/8" TYPE "X" GYPSUM BOARD INTERIOR	TO STRUCTURE
C		NON-LOAD BEARING COMBUSTIBLE NON-RATED (1) HR. RATED PER UL DESIGN U305 AT UTILITY 105 INTERIOR 5/8" TYPE "X" GYPSUM BOARD (1) LAYER 2" HEMPWOOL FIBER BATT INSULATION, FRICTION FIT AT CENTER 2x4 STUD AT 16" O.C. 5/8" TYPE "X" GYPSUM BOARD INTERIOR	TO STRUCTURE
D		NON-LOAD BEARING COMBUSTIBLE NON-RATED INTERIOR 5/8" TYPE "X" GYPSUM BOARD 2x6 STUD AT 16" O.C. 5/8" TYPE "X" GYPSUM BOARD INTERIOR	TO STRUCTURE
E		NON-LOAD BEARING COMBUSTIBLE NON-RATED (1) HR. RATED PER UL DESIGN U305 AT UTILITY 105 INTERIOR 5/8" TYPE "X" GYPSUM BOARD (1) LAYER 2" HEMPWOOL FIBER BATT INSULATION, FRICTION FIT AT CENTER 2x6 STUD AT 16" O.C. 5/8" TYPE "X" GYPSUM BOARD INTERIOR	TO STRUCTURE
F		NON-LOAD BEARING COMBUSTIBLE NON-RATED (1) HR. RATED PER UL DESIGN U305 AT UTILITY 105 ATTIC (1) LAYER 2" HEMPWOOL FIBER BATT INSULATION, FRICTION FIT AT CENTER 2x4 STUD AT 16" O.C. 5/8" TYPE "X" GYPSUM BOARD EDUCATIONAL SHOP 101	TO STRUCTURE

FLOOR ASSEMBLIES

SYMBOL	DETAIL	DESCRIPTION	LOCATION
CS1		4" REINFORCED CONCRETE SLAB ON GRADE 15 MIL VAPOR RETARDER, ALL SEAMS AND OPENINGS TAPED AND SEALED 4" DRAINAGE COURSE, 3/4" ± CRUSHED AGGREGATE* COMPACTED FILL MATERIAL 95% MAXIMUM DENSITY* *SEE GEOTECHNICAL REPORT INCLUDED IN SPECIFICATIONS FOR ADDITIONAL INFORMATION.	CONCRETE SLAB FLOORS

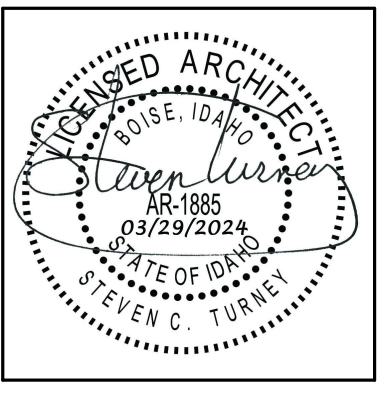
CEILING ASSEMBLIES

SYMBOL	DETAIL	DESCRIPTION	LOCATION
C1		COMBUSTIBLE (1) HR. RATED PER UL DESIGN R3501-5, 9 1-1/8" TONGUE-IN-GROOVE PLYWOOD 2x10 WOOD FLOOR JOISTS PER STRUCTURAL (2) LAYERS 5/8" TYPE "X" GYPSUM BOARD	UTILITY 105
C2		COMBUSTIBLE NON-RATED 2x6 WOOD CEILING JOISTS AT 16" O.C. 5/8" TYPE "X" GYPSUM BOARD	EDUCATIONAL OFFICE 102

ROOF ASSEMBLIES

SYMBOL	DETAIL	DESCRIPTION	LOCATION
R1		SOLAR MOUNTING CLIP PHOTOVOLTAIC UNIT STANDING SEAM METAL ROOF SLIP SHEET SELF-ADHERING ICE AND WATER SHIELD 3/4" SHEATHING 3"± CLOSED-CELL POLYURETHANE SPRAY-IN INSULATION 20" PLATED TRUSS (2) LAYERS 7.5" HEMPWOOL FIBER BATT INSULATION (1) LAYER 2" HEMPWOOL FIBER BATT INSULATION VAPOR RETARDER 5/8" TYPE "X" GYPSUM BOARD	UPPER ROOF
R2		SOLAR MOUNTING CLIP PHOTOVOLTAIC UNIT STANDING SEAM METAL ROOF SLIP SHEET SELF-ADHERING ICE AND WATER SHIELD 3/4" SHEATHING 3"± CLOSED-CELL POLYURETHANE SPRAY-IN INSULATION 18" PLATED TRUSS (2) LAYERS 7.5" HEMPWOOL FIBER BATT INSULATION VAPOR RETARDER 5/8" TYPE "X" GYPSUM BOARD	LOWER ROOF

REVISIONS



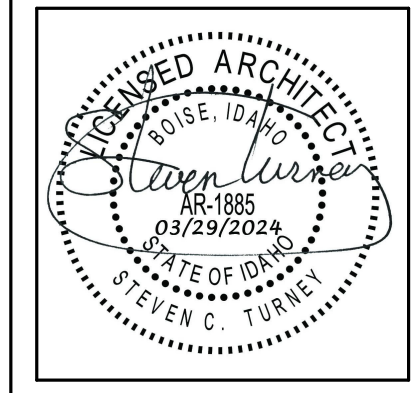
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RINKER ROCK CREEK RANCH BARN REMODEL
FAIRFIELD, IDAHO 83327

DATE: 3/29/2024
PROJECT NO: 2306.01
SHEET:
A501
ASSEMBLIES

KEYNOTES

- 1 HOLLOW METAL DOOR
- 2 HOLLOW METAL DOOR FRAME
- 3 FLEXIBLE FLASHING. EXTEND UNDER THRESHOLD 8" AND UP JAMB 8" MINIMUM
- 4 THRESHOLD IN SEALANT
- 5 GRADE
- 6 CONCRETE SLAB
- 7 GLAZING
- 8 ALUMINUM STOREFRONT ASSEMBLY
- 9 ALUMINUM VENT
- 10 SEALANT
- 11 FLASHING TAPE
- 12 CEMENTITIOUS TRIM, 1"x5-1/2", BEVEL TOP, PRIMED, PAINT EP-2
- 13 CEMENTITIOUS SIDING 4"x10", PRIMED, PAINT EP-2
- 14 FINISH WOOD SILL, PAINT IP-1
- 15 FINISH WOOD TRIM, PAINT IP-1
- 16 VAPOR RETARDER
- 17 5/8" TYPE "X" GYPSUM BOARD
- 18 BACKER ROD AND SEALANT
- 19 PRE-FINISHED METAL DRIP FLASHING
- 20 HEADER PER STRUCTURAL
- 21 CEMENTITIOUS BATTEN, 1"x3-1/2", PRIMED, PAINTED EP-1
- 22 UPWARD ACTING SECTIONAL DOOR
- 23 5/8" PLYWOOD
- 24 WEATHER GASKET
- 25 WALL BASE
- 26 PRESSURE TREATED SILL PLATE
- 27 SILL SEALER GASKET
- 28 ANCHOR BOLT
- 29 3/4" FIRE-RETARDANT PLYWOOD SHEATHING AT EXPOSED AREAS
- 30 SELF-ADHERING ICE AND WATER SHIELD
- 31 SLIP SHEET
- 32 PRE-FINISHED STANDING SEAM METAL ROOFING
- 33 3" CLOSED CELL POLYURETHANE SPRAY-IN INSULATION
- 34 PRE-FINISHED METAL GABLE END FLASHING
- 35 2x6 FIRE-RETARDANT FASCIA, PAINT EP-2 AT OUTSIDE AND BOTTOM SURFACE, PAINT BACKSIDE EP-1
- 36 2x6 FIRE-RETARDANT OUTRIGGERS AT 24" OC, PAINT EP-1
- 37 HEMPWOOL INSULATION
- 38 DOUBLE TOP PLATE
- 39 PHOTOVOLTAIC CELL
- 40 SOLAR MOUNTING CLIP
- 41 BUTYL TAPE
- 42 PRE-FINISHED METAL "Z"
- 43 PRE-FINISHED METAL RIDGE CAP
- 44 PRE-FINISHED METAL HEAD WALL TRIM FLASHING
- 45 PRE-FINISHED METAL COUNTER FLASHING
- 46 DOOR SHOE
- 47 INTUMESCENT LOUVER
- 48 SALVAGE 1"x11" SIDING
- 49 BEVEL EDGE AT DOOR

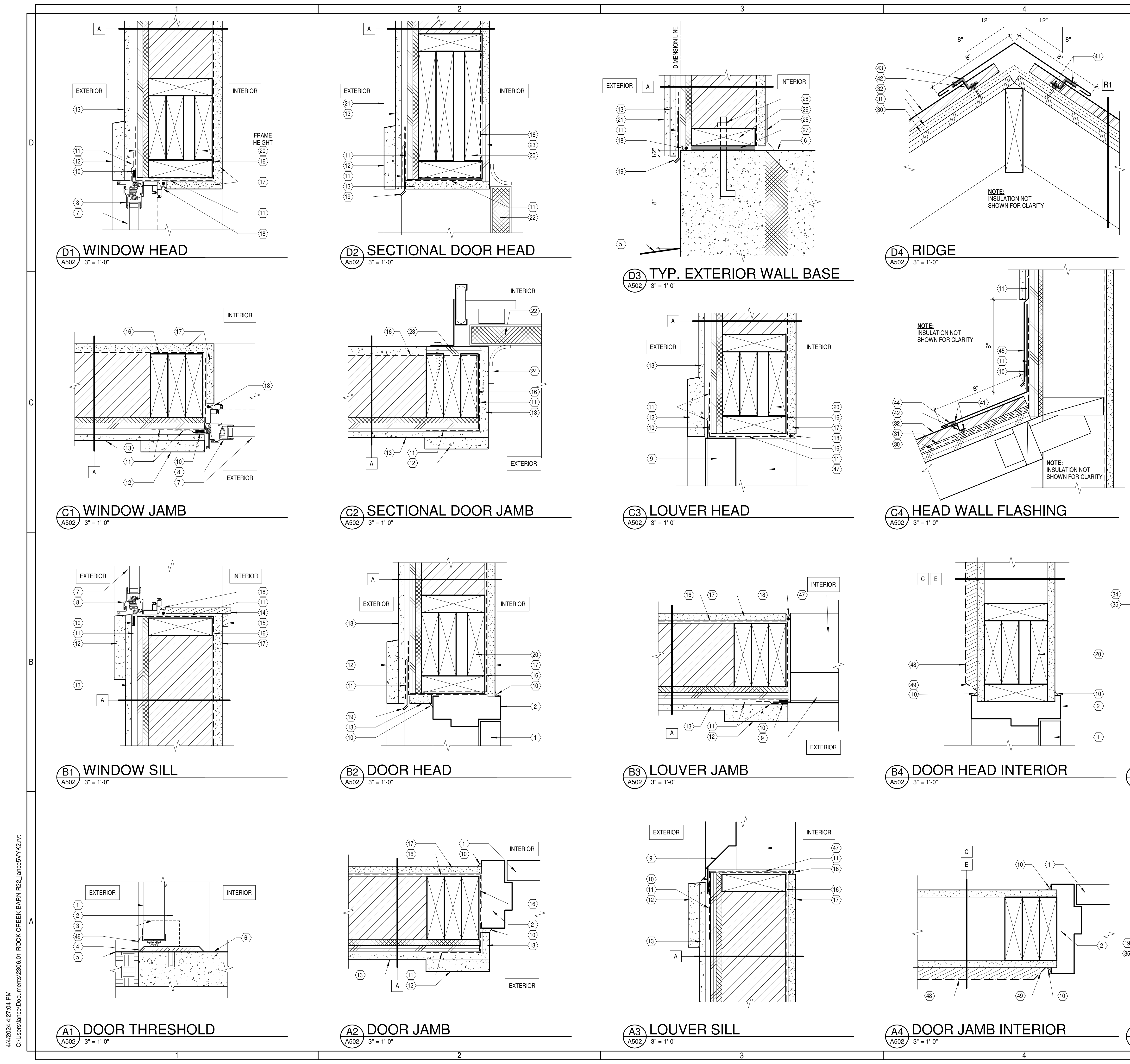


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RINKER ROCK CREEK RANCH BARN REMODEL
FAIRFIELD, IDAHO 83327

DATE: 3/29/2024
PROJECT NO: 2306.01
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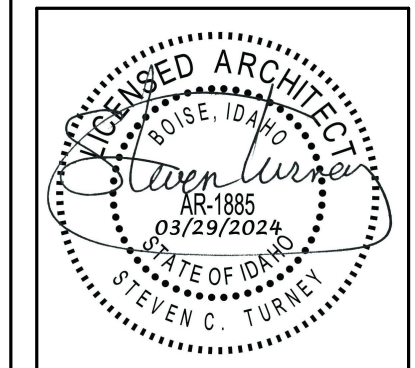
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DETAILS



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KEYNOTES

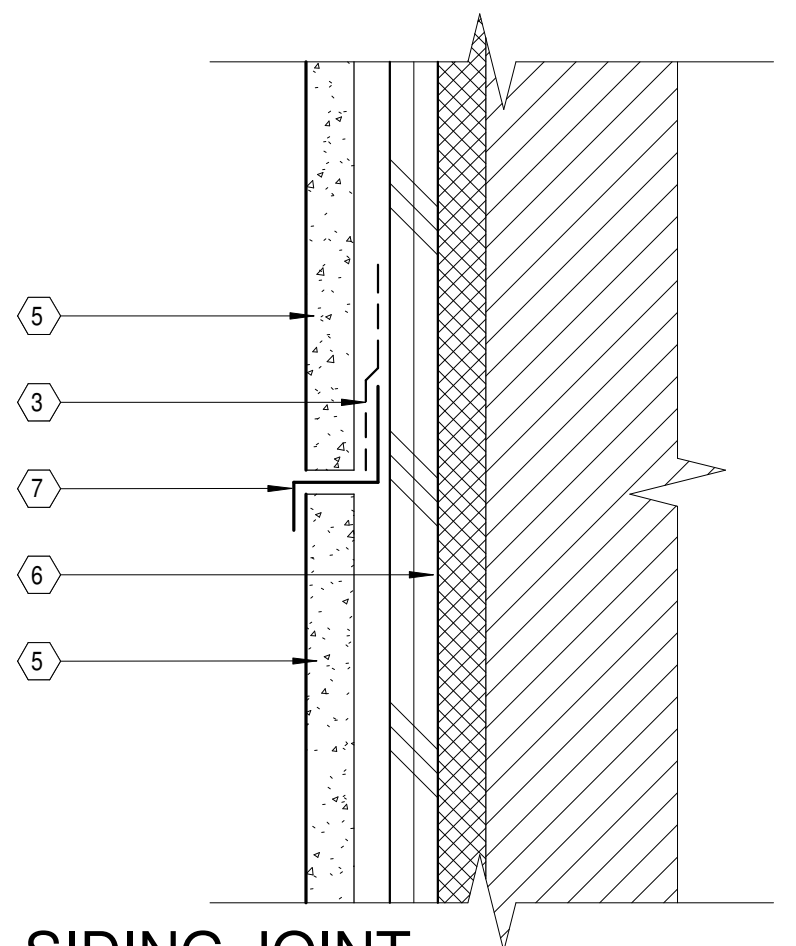
1	GLAZING
2	ALUMINUM STOREFRONT ASSEMBLY
3	FLASHING TAPE
4	CEMENTITIOUS TRIM, 1"x5 1/2" PRIMED, PAINT EP-2
5	CEMENTITIOUS SIDING 4"x10", PRIMED, PAINT EP-1
6	ZIP SHEATHING PANEL
7	PRE-FINISHED METAL FLASHING
8	CEMENTITIOUS SIDING, PRIMED, PAINT EP-1
9	DOUBLE HINGE SAFETY HASP, 3" ZINC PLATED, EVERBILT
10	4-1/2" SWING CLEAR HINGE, BB600, HINGE OUTLET
11	BARN DOOR HOOK
12	FLAT BAR, 1/2"x2-1/2", PAINT IP-3
13	FLOOR BEYOND
14	1" DIAMETER STEEL BAR RUNG, NON-SLIP COATING, PAINT IP-3
15	L1/2"x2-1/2", WITH LAG SCREWS, PAINT IP-3
16	EXPANSION ANCHORS
17	2X4 'FRAMING' ONE SIDE
18	4X8 A-C PLYWOOD PANEL, CUT TO FIT
19	BARN DOOR TROLLEY, (4) PER PANEL, STANLEY / NATIONAL 5047
20	BOX RAIL, (3) SETS REQUIRED, STANLEY / NATIONAL N104-901
21	TRIPLE BOX HANGER, STANLEY / NATIONAL N104-554
22	COLUMN PER STRUCTURAL
23	HEADER PER STRUCTURAL
24	1" BOLT
25	FENDER WASHER
26	1/4" PLATE, PAINT IP-2
27	SALVAGED 4X6 COLUMNS USED AS COLLAR TIES



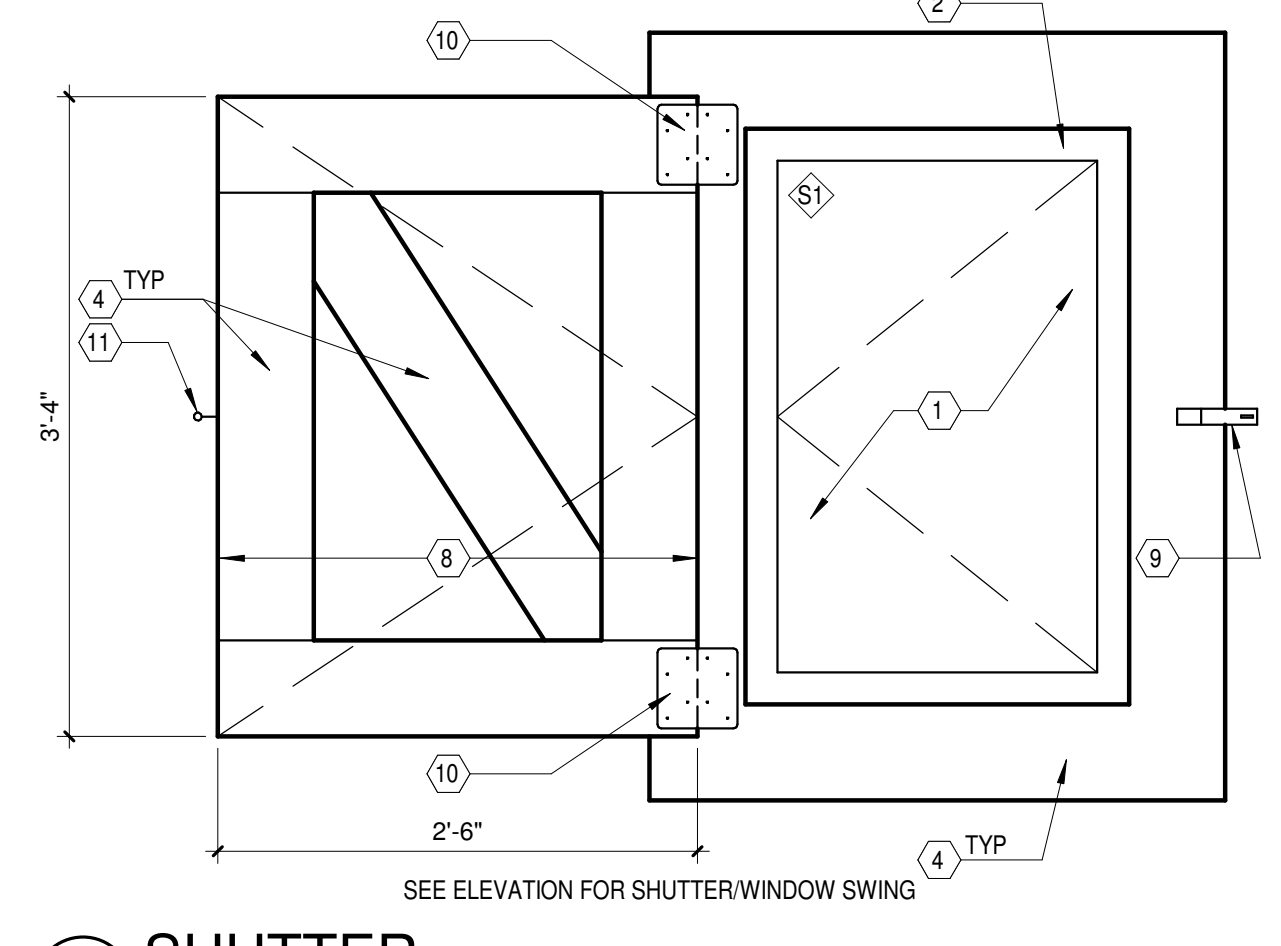
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 FAIRFIELD, IDAHO 83327

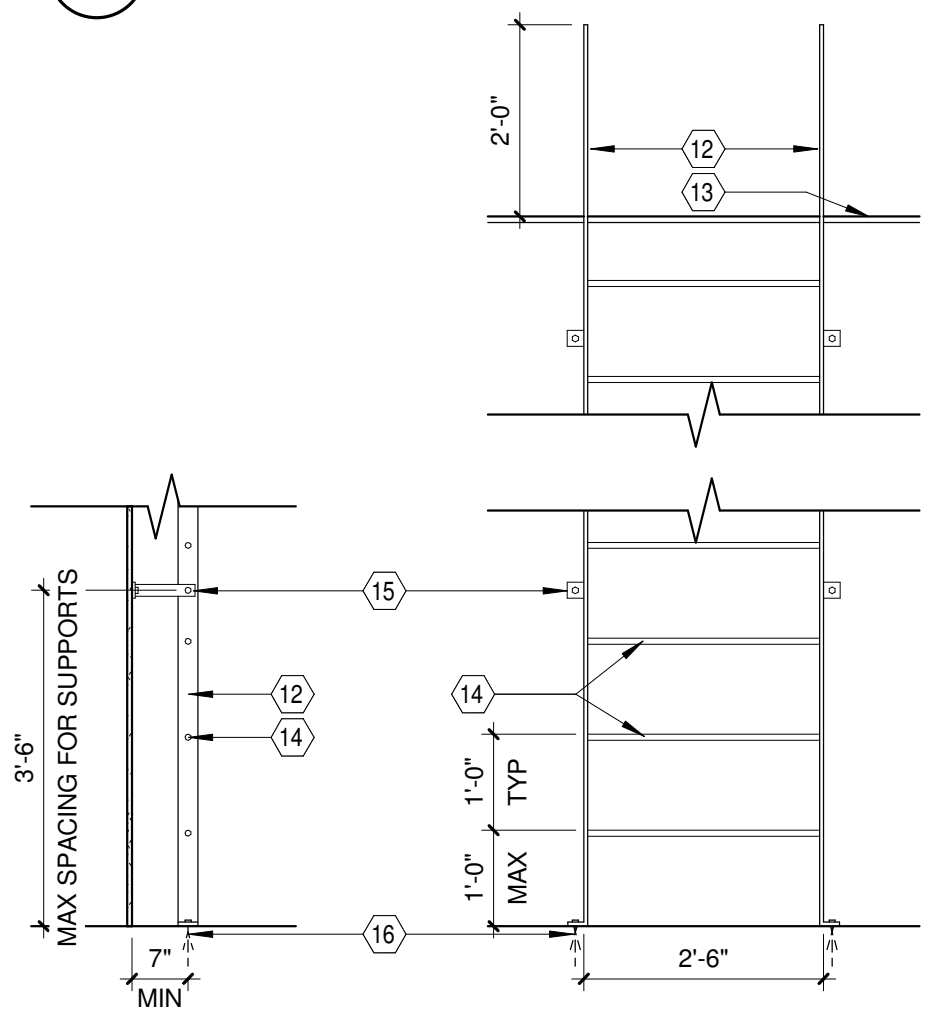
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 PROJECT NO: 2306.01
 SHEET:
A503
 DETAILS



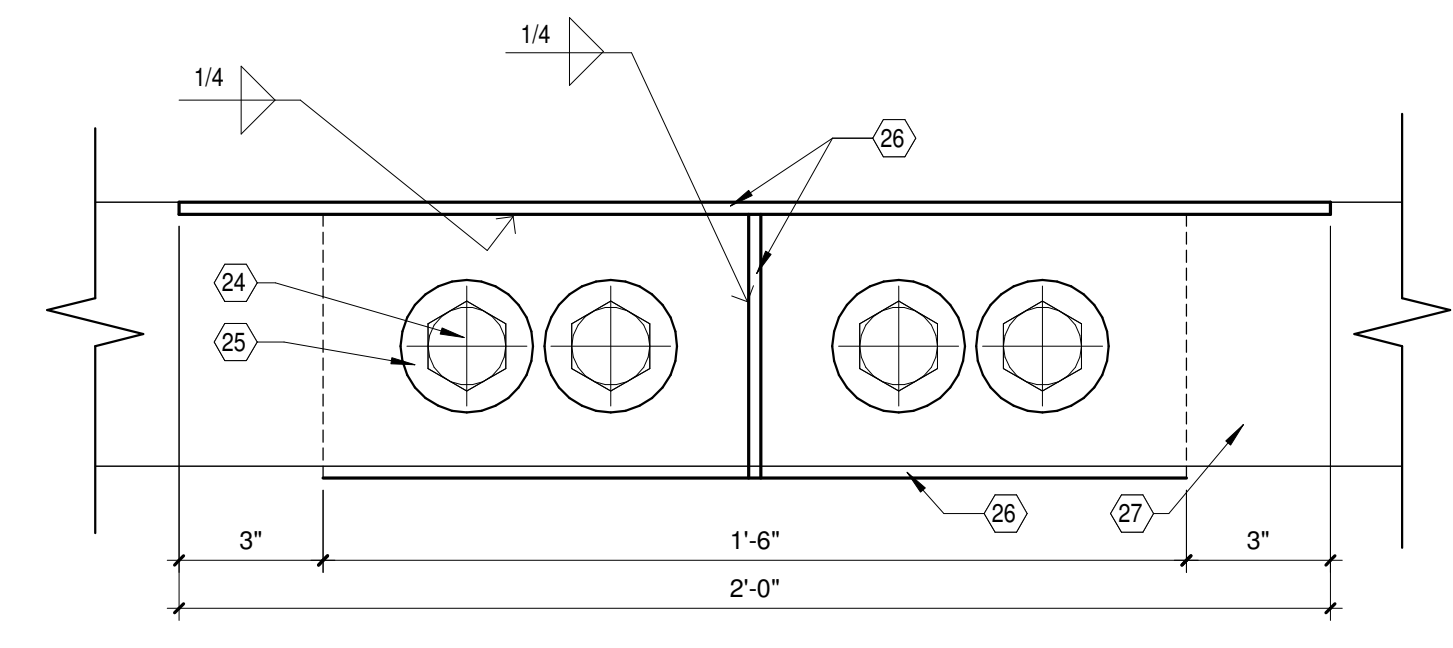
D1 SIDING JOINT
 A503 6" = 1'-0"



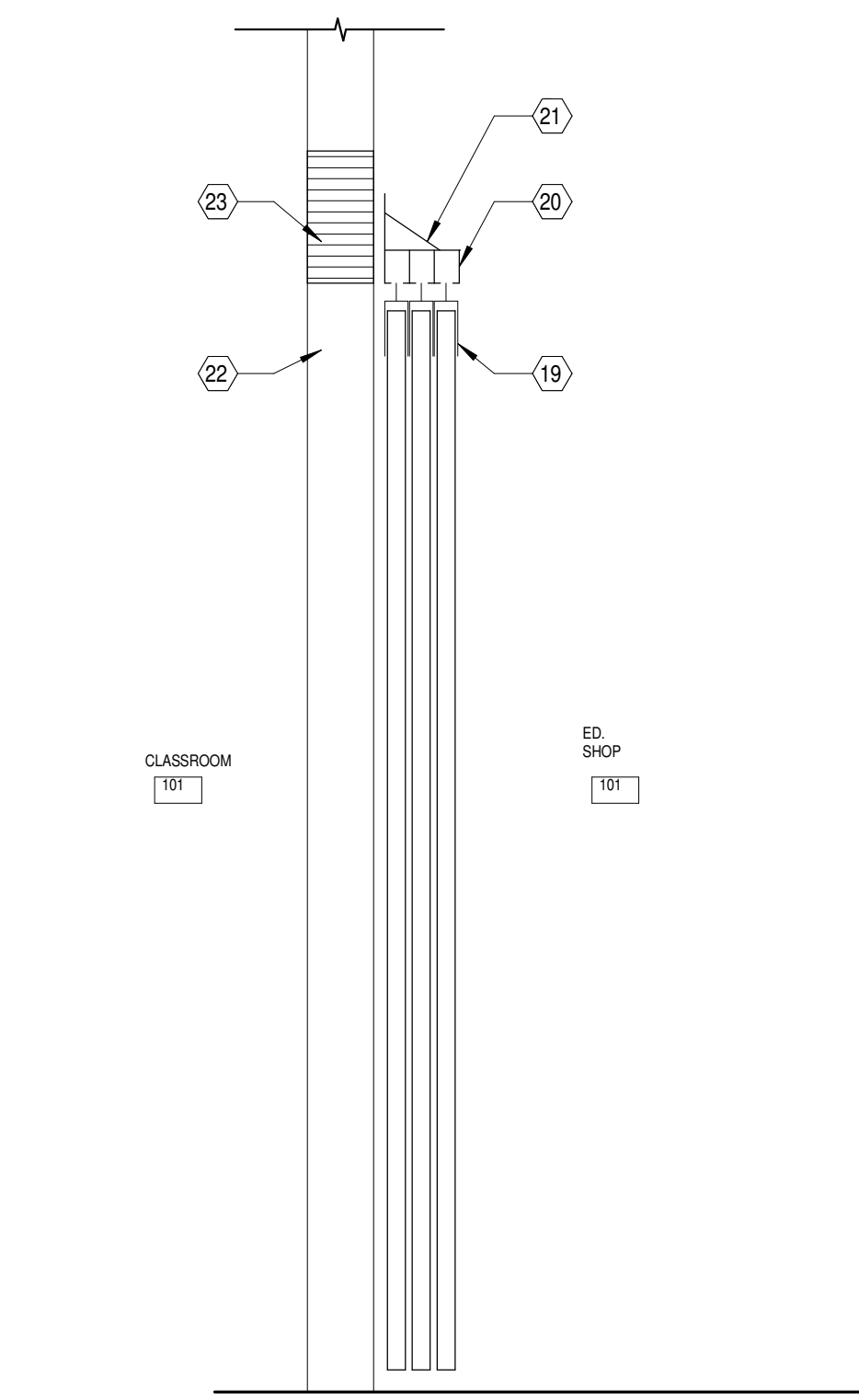
D2 SHUTTER
 A503 1" = 1'-0"



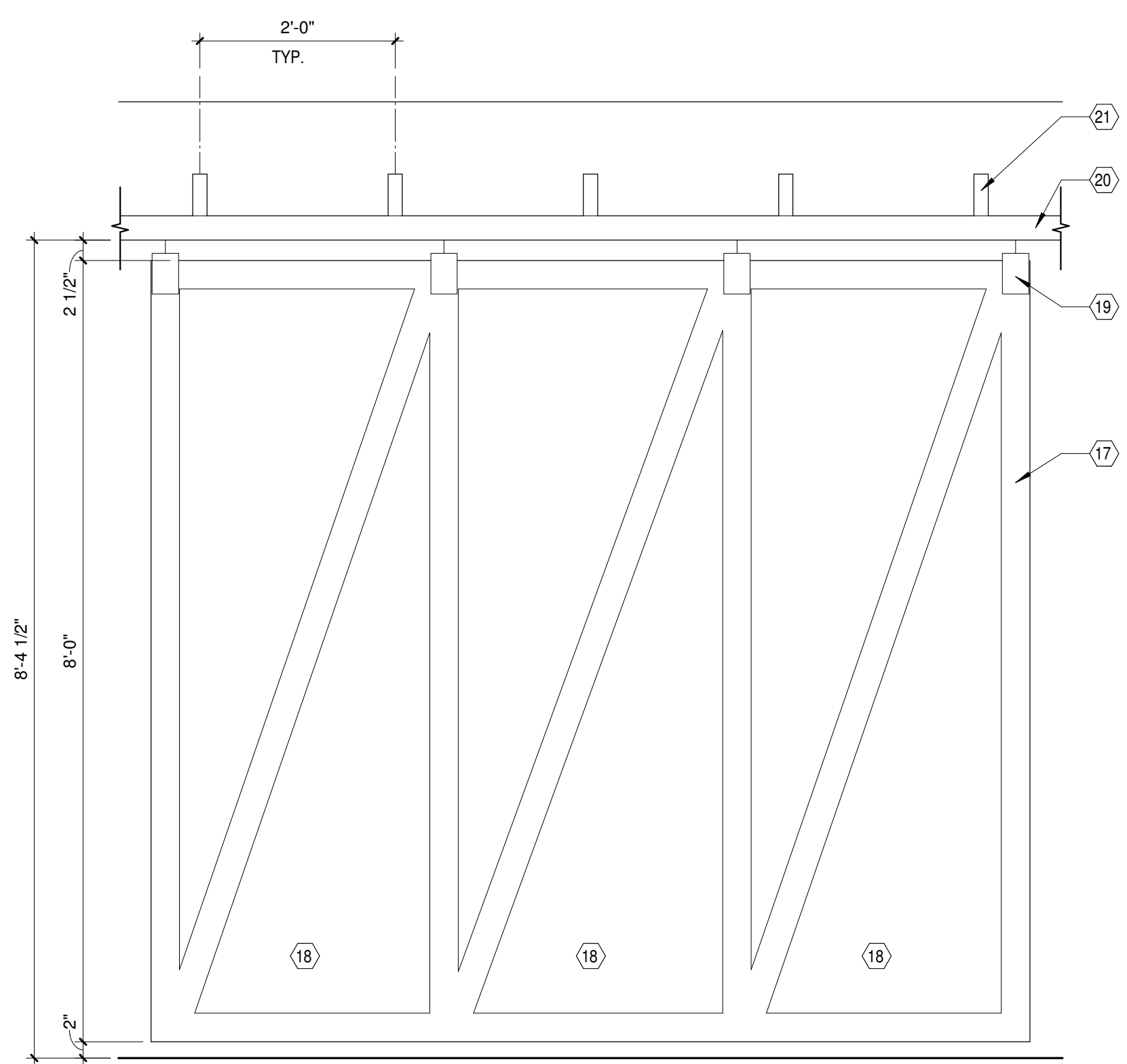
C1 LADDER
 A503 1/2" = 1'-0"



C2 COLLAR TIE CONNECTION
 A503 3" = 1'-0"



A1 BARN DOOR
 A503 3/4" = 1'-0"



ELEVATION (ONE OF THREE PANELS)
 TOWARDS CLASSROOM 103

DOOR SCHEDULE

GENERAL NOTES

ROOM FINISH SCHEDULE

NUMBER	SIZE		THICKNESS	DOOR				FRAME			DETAILS		FIRE RATING IN MINUTES	HARDWARE GROUP	SIGNAGE TYPE	REMARKS
	WIDTH	HEIGHT		TYPE	MATERIAL	FACING FINISH	DOOR GLAZING	TYPE	MATERIAL	FINISH	HEAD	JAMB				
101	3'-0"	7'-0"	1 3/4"	A	HM	EP-2/IP-3	-	H1	HM	EP-2/IP-2	B2/A502	A2/A502	-	1	A	1
102	3'-0"	7'-0"	1 3/4"	A	HM	IP-3	-	H2	HM	IP-3	B4/A502	A4/A502	-	2	-	-
103A	12'-0"	10'-0"	-	C	-	EP-2	-	-	-	-	D2/A502	C2/A502	-	-	-	-
103B	12'-0"	10'-0"	-	C	-	EP-2	-	-	-	-	D2/A502	C2/A502	-	-	-	-
104A	3'-0"	7'-0"	1 3/4"	B	HM	IP-3	GL-1	H1	HM	IP-3	B4/A502	A4/A502	-	3	A	-
104B	10'-0"	8'-0"	-	C	-	EP-2	-	-	-	-	D2/A502	C2/A502	-	-	-	-
105	3'-0"	7'-0"	1 3/4"	A	HM	IP-3	-	H1	HM	IP-3	B4/A502	A4/A502	60	4	-	-

1. PROVIDE BLOCKING IN WALL MOUNTED DOOR STOPS
 2. ALL GLAZING IN DOORS SHALL BE TEMPERED SAFETY GLAZING

DOOR SCHEDULE ABBREVIATIONS

EP EXTERIOR PAINT
 HM HOLLOW METAL
 IP INTERIOR PAINT

ROOM NO.	ROOM NAME	FLOORS			WALLS								CEILING			WINDOW COVERING	REMARKS		
		MATERIAL	FINISH	BASE	NORTH		EAST		SOUTH		WEST		MATERIAL	FINISH	HEIGHT				
					MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH							
101	EDUCATIONAL SHOP	CONC	SEAL	RB-1	GB	IP-1	GB	IP-1	GB	IP-1	GB	IP-1	GB	IP-1	GB	IP-1	VARIES	Y	1
102	EDUCATIONAL OFFICE	CONC	SEAL	RB-1	GB	IP-1	GB	IP-1	GB	IP-1	GB	IP-1	GB	IP-1	GB	IP-1	8'-0"	Y	-
103	CLASSROOM	CONC	SEAL	RB-1	GB	IP-1	GB	IP-1	GB	IP-1	GB	IP-1	GB	IP-1	GB	IP-1	VARIES	-	1
104	FIELD EDUCATION EQUIPMENT	CONC	SEAL	RB-1	GB	IP-1	GB	IP-1	GB	IP-1	GB	IP-1	GB	IP-1	GB	IP-1	VARIES	-	-
105	UTILITY	CONC	SEAL	RB-1	GB	IP-1	GB	IP-1	GB	IP-1	GB	IP-1	GB	IP-1	GB	IP-1	8'-0"	-	-

ROOM FINISH SCHEDULE REMARKS

1. SEE INTERIOR ELEVATIONS FOR SALVAGED LUMBER PLACEMENT AND WALL PAINT

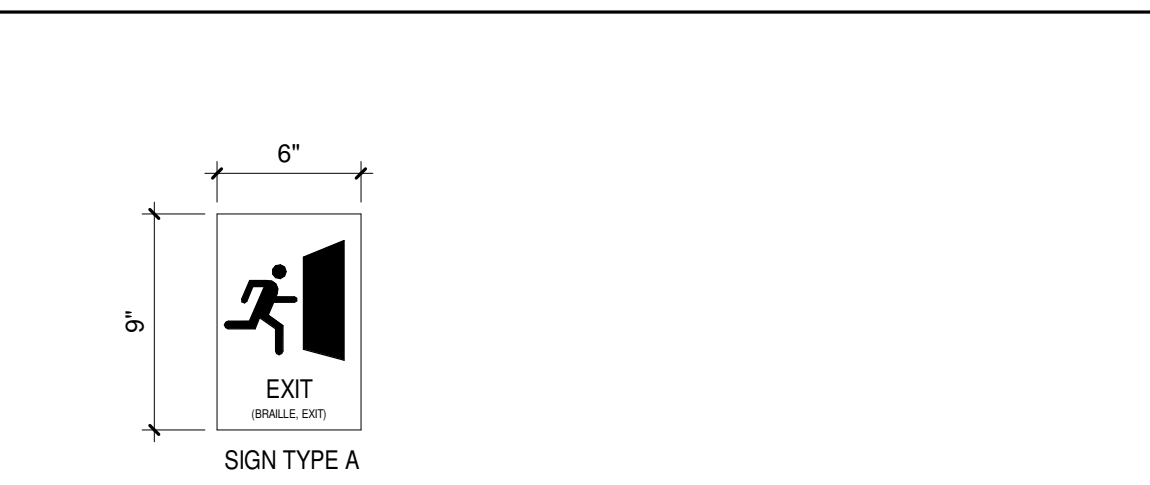
DOOR SCHEDULE REMARKS

1. EXIT DEVICE

GLAZING LEGEND

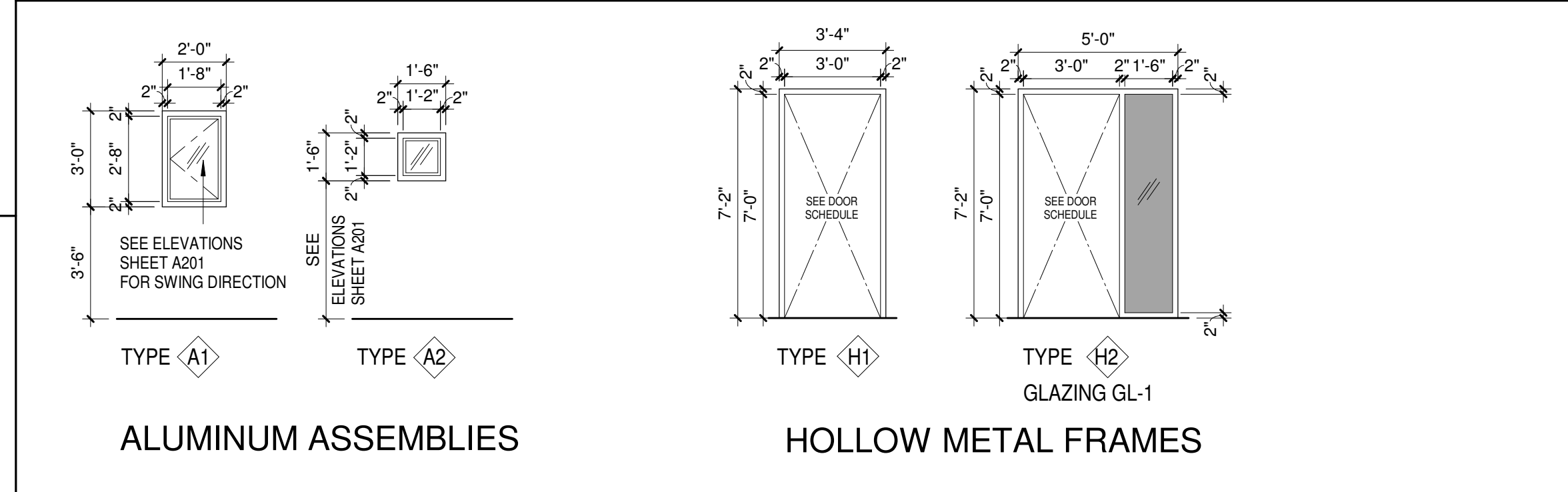
TEMPERED SAFETY GLAZING

SIGNAGE

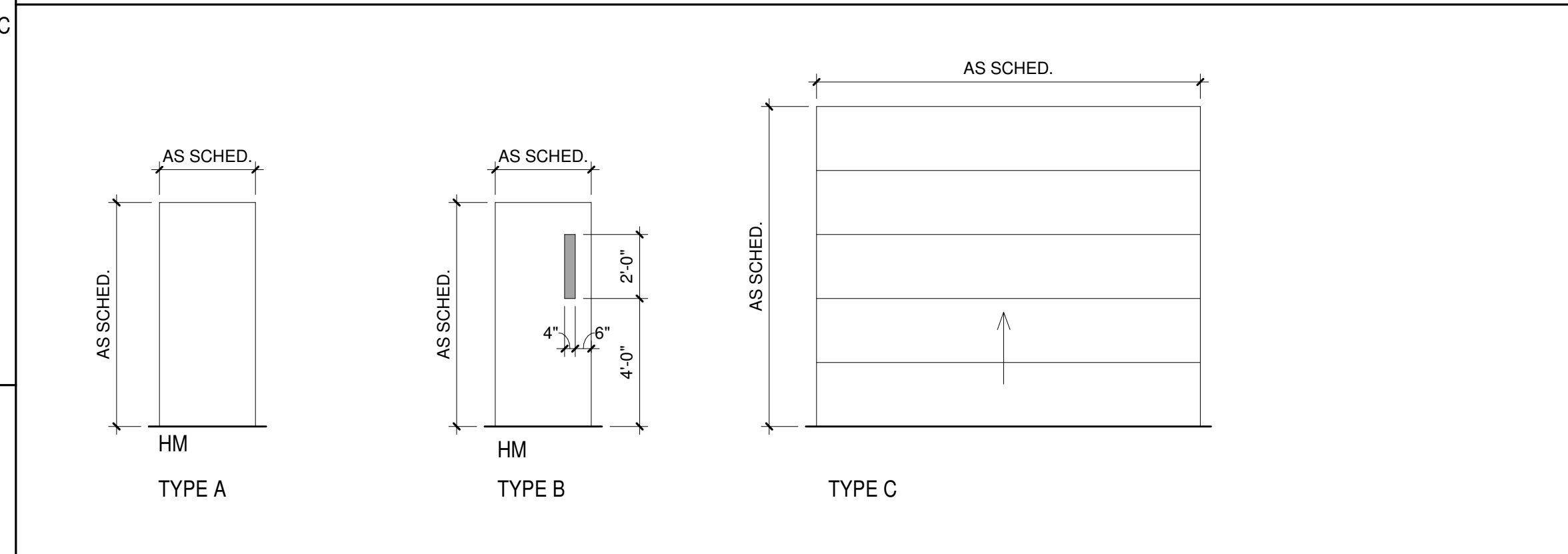


GENERAL SIGN NOTES
 1) ALL ADA SIGNAGE TO COMPLY WITH ANSI SECTION 703.
 2) ALL LETTERS ARE TO BE UPPERCASE CHARACTERS.
 3) ALL SIGNS TO INCLUDE GRADE 2 BRAILLE WHERE NOTED.

FRAME TYPES



DOOR TYPES

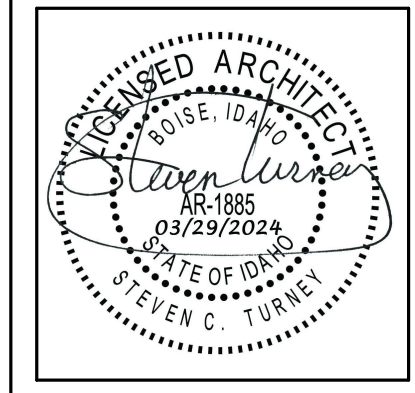


REVISIONS

NO.	DESCRIPTION

REVISIONS

NO.	DESCRIPTION



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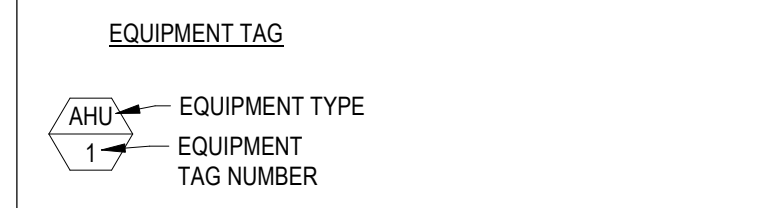
DATE: 3/29/2024
 PROJECT NO: 2306.01
 SHEET:
A601
 DOOR SCHEDULE
 ROOM FINISH
 SCHEDULE

	1	2	3	4	5
D					
C					
B					
A					

HVAC SYMBOLS & ABBREVIATIONS
(NOT ALL SYMBOLS MAY BE USED)

AFF	ABOVE FINISHED FLOOR
BDD	BACKDRAFT DAMPER
C.O.D.	CENTER OF DUCT
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
ESP	EXTERNAL STATIC PRESSURE
FD	FIRE DAMPER
LAT	LEAVING AIR TEMPERATURE
MD	MANUAL (VOLUME) DAMPER
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
OA	OUTSIDE (VENTILATION) AIR
RA	RETURN AIR
S.S.	STAINLESS STEEL
SA	SUPPLY AIR
TA	TRANSFER AIR
U.N.O.	UNLESS NOTED OTHERWISE

Ⓢ	SUMMER/WINTER SWITCH
Ⓣ	TIMECLOCK
Ⓜ	MOTORIZED DAMPER



NIGHT FLUSH SEQUENCE OF OPERATION

NIGHT FLUSH OPERATION TO PROVIDE COOLING DURING SUMMER.
NIGHT FLUSH IS ACHIEVED USING INTAKE LOUVERS, EXHAUST LOUVERS, MOTORIZED DAMPERS ON INTAKE LOUVERS AND TIMECLOCK FOR CONTROLS.

SUMMER OPERATION:
TIMECLOCK IS SET TO OPEN MOTORIZED DAMPERS DURING SUMMER OPERATION FROM 11PM-9AM (ADJUSTABLE).

MECHANICAL GENERAL NOTES

- A. ALL DIMENSIONS ARE LISTED IN INCHES UNLESS NOTED OTHERWISE. ALL DUCTWORK DIMENSIONS ARE INSIDE CLEAR.
- B. HVAC CONTRACTOR SHALL FIELD-COORDINATE ALL CONDITIONS, UNIT LOCATIONS, OBSTRUCTIONS AND DUCTWORK INSTALLATION PRIOR TO DUCT FABRICATION. TRANSITION AND OFFSET DUCTWORK, AS REQUIRED, TO MAKE FIT IN CEILING SPACES AND FIELD CONDITIONS. DUCTWORK FABRICATED BY THE HVAC CONTRACTOR PRIOR TO FIELD COORDINATION AND CONFLICT RESOLUTION SHALL BE AT THE RESPONSIBILITY AND COST OF THE HVAC CONTRACTOR. OWNER SHALL NOT BE RESPONSIBLE FOR SHOP-FABRICATED DUCTWORK SIZED DIRECTLY FROM THE HVAC DRAWINGS.
- C. DO NOT CUT, DRILL HOLES OR REMOVE ANY PORTION OF STRUCTURAL MEMBERS, BEAMS OR PURLINS. ROUTE ALL DUCTWORK, PIPING AND CONDUIT AROUND AND THROUGH STRUCTURAL MEMBERS AS REQUIRED. SEE STRUCTURAL DETAILS AND DRAWINGS FOR EXACT METHOD OF ATTACHING HANGERS TO BEAMS AND STRUCTURAL MEMBERS.
- D. DO NOT ATTACH SCREWS, NAILS, HANGERS OR FASTENERS OF ANY TYPE TO ROOF DECK. SUPPORT ALL MECHANICAL EQUIPMENT FROM STRUCTURE AND CONTRACTOR-INSTALLED KICKERS ONLY. PROVIDE AND INSTALL INTERMEDIATE KICKERS BETWEEN PURLINS AS REQUIRED TO HANG EQUIPMENT AND SHEET METAL DUCTWORK.

BASIS OF DESIGN

CODES (INCLUDING LOCAL AMENDMENTS)	
2018	INTERNATIONAL MECHANICAL CODE (IMC)
2018	INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
2018	INTERNATIONAL BUILDING CODE (IBC)
CLIMATE ZONE 6B - ARCO 17 SW, ID	
DESIGN TEMPERATURES	
SUMMER:	89.1°F DB / 55.3°F WB (OUTDOORS-COOLING)
WINTER:	0°F DB (OUTDOORS-HEATING 99.6%)
ELEVATION: 5920 FEET ABOVE SEA LEVEL	

MECHANICAL SHEET INDEX

SHEET NUMBER	SHEET NAME
M0.0	MECHANICAL COVER SHEET
M0.1	MECHANICAL SCHEDULES
M1.1	MECHANICAL PLAN

REVISIONS

ENGINEERING CONSULTANTS
303 South Federal Way, Boise, ID 83705
(208) 376-9820 • www.ecb.com

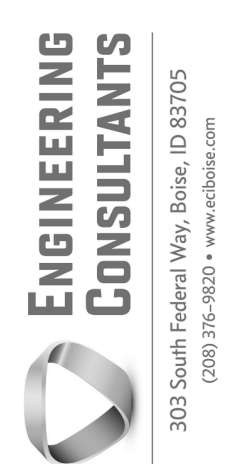


PROFESSIONAL ENGINEER
REGISTERED
9106
STATE OF IDAHO
CATRY L. MILLER
3/29/2024

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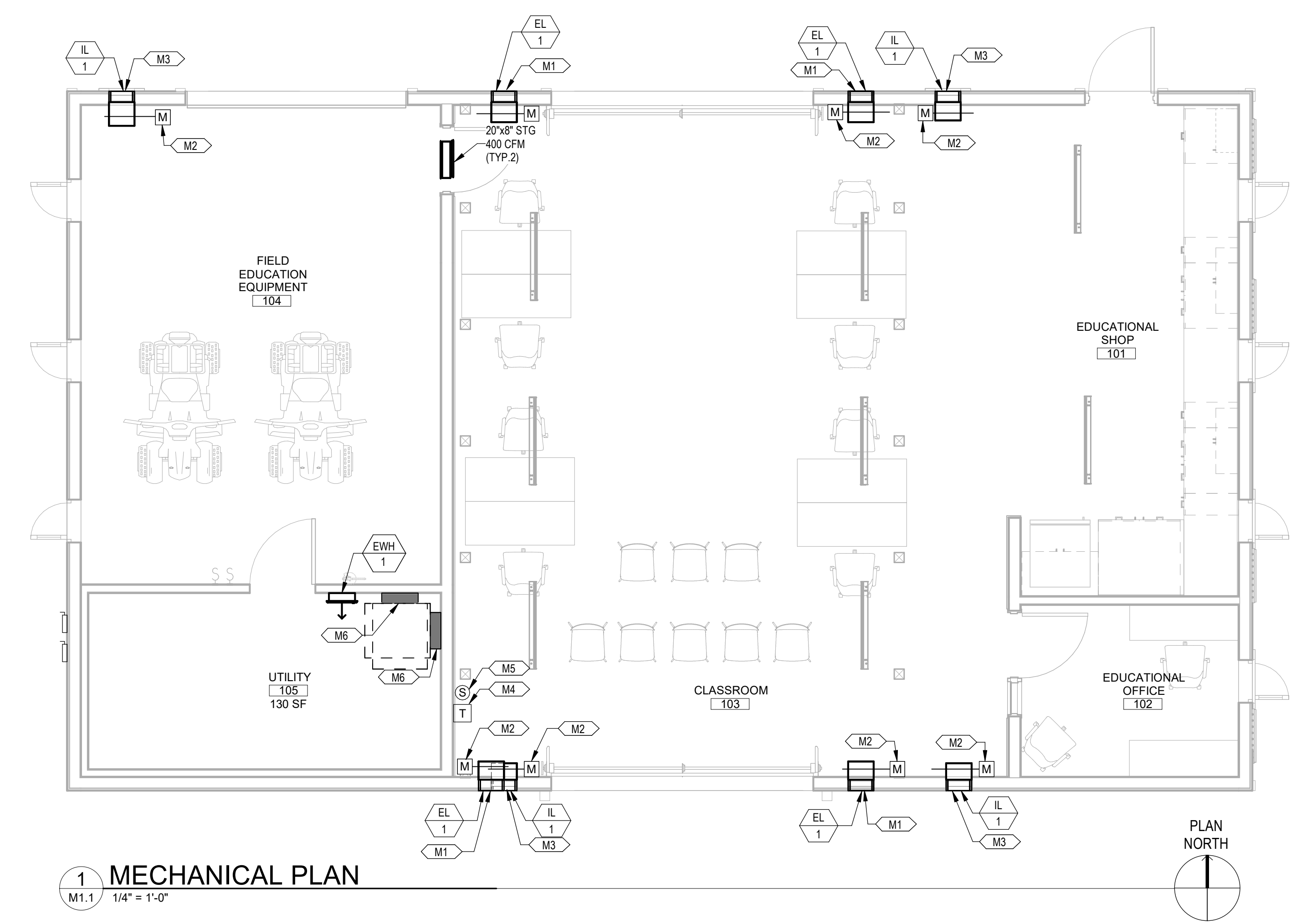
DATE:	3/29/2024
PROJECT NO:	2306.01/99Z81
SHEET:	M0.0
MECHANICAL COVER SHEET	

1	2	3	4	5				
LOUVER SCHEDULE								
SYMBOL	QUANTITY	SYSTEM	CFM	SIZE		MIN. FREE AREA (FT ²)	MANUFACTURER & MODEL	REMARKS
				WIDTH (IN)	HEIGHT (IN)			
IL-1	4	NIGHT FLUSH VENTILATION INTAKE	400	14	24	0.8	VULCAN VG1424FF	(1)(2)(3)
EL-1	4	NIGHT FLUSH VENTILATION EXHAUST	400	14	24	0.8	VULCAN VG1424FF	(1)(2)(3)
1) PROVIDE WITH FLANGED FRAME AND BIRDSCREEN. 2) PROVIDE W/ 120V MOTORIZED DAMPER WITH END SWITCH. DAMPER SHALL BE NORMALLY CLOSED. 3) PROVIDE WITH TIMECLOCK. MOTORIZED DAMPER TO BE CONTROLLED BY TIMECLOCK BASED ON NIGHT FLUSH SEQUENCE OF OPERATION ON SHEET M0.0.								
ELECTRIC HEATER SCHEDULE								
SYMBOL	LOCATION	TYPE	CFM	ELECTRICAL		MANUFACTURER & MODEL	REMARKS	
				V/PH	WATTS			
EWH-1	UTILITY ROOM	WALL HEATER	50	120/1	750	BERKO GFR1500T2F	(1)(2)	
1) PROVIDE WITH SURFACE-MOUNTING FRAME AND INTEGRAL SINGLE-POLE THERMOSTAT. 2) SET THERMOSTAT AT 55F.								
GRILLE, REGISTER AND DIFFUSER SCHEDULE								
SYMBOL	DESCRIPTION	MANUFACTURER & MODEL	FEATURES AND OPTIONS				REMARKS	
STG	SIDEWALL TRANSFER AIR GRILLE	PRICE STG	STEEL CONSTRUCTION, TYPE B BORDER FOR SURFACE MOUNT, 3/4" BLADE SPACING AT 45° DEFLECTION, BLADES PARALLEL TO LONG DIMENSION. SIZE AS SHOWN ON PLANS. FACTORY WHITE FINISH.				-	

REVISIONS
 ENGINEERING CONSULTANTS 303 South Federal Way, Boise, ID 83705 (208) 376-9820 • www.ecb.com
 PROFESSIONAL ENGINEER REGISTERED 9106 STATE OF IDAHO CATHY L. MILLER 3/29/2024
 Architects and Planners, Chartered 300 E. Mallard Drive, Suite 325, Boise Idaho 83706
UNIVERSITY OF IDAHO RINKER ROCK CREEK RANCH BARN REMODEL FAIRFIELD, IDAHO 83327
DATE: 3/29/2024 PROJECT NO: 2306.01/99Z81 SHEET: M0.1 MECHANICAL SCHEDULES

KEYNOTES

- M1 MOUNT EXHAUST LOUVER WITH BOTTOM OF LOUVER AT 17' A.F.F.
- M2 120V MOTORIZED DAMPER INTERLOCKED TO TIMECLOCK.
- M3 MOUNT INTAKE LOUVER WITH BOTTOM OF LOUVER AT 2' A.F.F.
- M4 MOUNT TIMECLOCK AT 48" A.F.F.
- M5 SUMMER/WINTER SWITCH AT 48" A.F.F. SHALL DISABLE LOUVER OPERATION WHEN SWITCH IS SET TO WINTER MODE. PROVIDE PERMANENT PHENOLIC LABEL ABOVE SUMMER/WINTER SWITCH STATING, "TURN SWITCH ON FOR SUMMER OPERATION TO ENABLE EXTERIOR LOUVERS TO OPERATE ACCORDING TO TIMECLOCK SETTINGS FOR NIGHT FLUSH COOLING. TURN SWITCH OFF FOR WINTER OPERATION TO ENSURE EXTERIOR LOUVERS REMAIN CLOSED FOR THE WINTER".
- M6 ELECTRICAL PANEL SHOWN FOR REFERENCE ONLY.



1 MECHANICAL PLAN
 M1.1 1/4" = 1'-0"



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UNIVERSITY OF IDAHO
 RINKER ROCK CREEK RANCH BARN REMODEL
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 SHEET:
M1.1
 MECHANICAL PLAN

ELECTRICAL ABBREVIATIONS

ABBREV.	DESCRIPTION
#C	SIZE OF TRADE SIZE CONDUIT. (e.g. 1/2", 2", etc.)
#P	NUMBER OF POLES. (i.e. 1P, 2P, 3P)
#PH	NUMBER OF PHASES. (i.e. 1PH, 3PH)
#W	NUMBER OF WIRES. (e.g. 3W, 4W, etc.)
A	AMPERE
AC	ABOVE COUNTER
AC	ARMORED CABLE
ADA	AMERICANS WITH DISABILITIES ACT
AFCI	ARC-FAULT CIRCUIT INTERRUPTER
AFI	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ANN	ANNUNCIATOR
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CD	CANDELA
CLG	CEILING
CT	CURRENT TRANSFORMER
CU	COPPER
DC	DIRECT CURRENT
DPDT	DOUBLE POLE, DOUBLE THROW
DPST	DOUBLE POLE, SINGLE THROW
EMT	ELECTRICAL METALLIC TUBING
ENC	ELECTRICAL NONMETALLIC TUBING
EP	EXPLOSION PROOF
EV	ELECTRIC VEHICLE
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPS
FMC	FLEXIBLE METAL CONDUIT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT EQUIPMENT PROTECTION
GRD	GROUND
HP	HORSE POWER
HVAC	HEATING VENTILATION AND AIR CONDITIONING
IO	INPUT / OUTPUT
IECC	INTERNATIONAL ENERGY CONSERVATION CODE
IG	ISOLATED GROUND
INC	INCANDESCENT
J-BOX	JUNCTION BOX
KCMIL	ONE THOUSAND CIRCULAR MIL
KO	KNOCK OUT
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
LV	LOW VOLTAGE
MC	METAL-CLAD
MCB	MAIN CIRCUIT BREAKER
MDSB	MAIN DISTRIBUTION SWITCHBOARD
MFR	MANUFACTURER
MLO	MAIN LUG ONLY
MTS	MANUAL TRANSFER SWITCH
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NESC	NATIONAL ELECTRICAL SAFETY CODE
NM	NONMETALLIC-SHEATHED CABLE
NO	NORMALLY OPEN
NO.	NUMBER
NRTL	NATIONALLY RECOGNIZED TESTING LABORATORY - AS DEFINED BY OSHA
OCPD	OVERCURRENT PROTECTIVE DEVICE
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PF	POWER FACTOR
PoE	POWER OVER ETHERNET
PVC	RIGID POLYVINYL CHLORIDE CONDUIT
REV	REVISION
RMC	RIGID METAL CONDUIT
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
SE	SERVICE ENTRANCE
SPD	SURGE PROTECTIVE DEVICE
SPDT	SINGLE POLE, DOUBLE THROW
SPST	SINGLE POLE, SINGLE THROW
TR	TAMPER RESISTANT
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
USB	UNIVERSAL SERIAL BUS
V	VOLTAGE
VA	VOLT-AMPERE
VAC	VOLTS ALTERNATING CURRENT
VFD	VARIABLE FREQUENCY MOTOR DRIVE
W	WATT
WP	WEATHERPROOF
XFMR	TRANSFORMER

EXTERIOR CONTROL SCHEDULE

GENERAL NOTES:
A. COORDINATE OCCUPIED AND UNOCCUPIED SCHEDULE WITH OWNER.
B. SEE PLANS FOR LOCATIONS OF ALL LIGHTING CONTROL DEVICES (E.G. SWITCHES, OCCUPANCY SENSORS, ETC.).

AREA NOTES:
1. AUTO SCHEDULING CONTROLS TO REDUCE LIGHTING POWER BY 50% DURING OCCUPIED PERIOD AND OFF DURING UNOCCUPIED PERIODS.
2. MOTION SCHEDULING CONTROLS TO REDUCE LIGHTING POWER BY 50% UPON VACANCY DURING OCCUPIED PERIODS AND OFF UPON VACANCY DURING UNOCCUPIED PERIODS.

LABEL	AREA TYPE	AUTO SCHEDULING CONTROLS (130.2(c)(2))	MOTION SENSING CONTROLS (130.2(c)(3))		DAYLIGHT AVAILABILITY (130.2(c)(3))			NOTES
			MOTION SENSING CONTROLS W/ AUTO SCHEDULING	TIMEOUT (MINUTES)	PHOTO CONTROL	ASTRONOMICAL TIME-SWITCH		
OC3	WALLPACK		•	15	•			2

INTERIOR CONTROL SCHEDULE

GENERAL NOTES:
A. COORDINATE TIME-SWITCH CONTROL SCHEDULE WITH OWNER.
B. SEE PLANS FOR LOCATIONS OF ALL LIGHTING CONTROL DEVICES (E.G. SWITCHES, SENSORS, ETC.) AND CONTROLLED RECEPTACLES.
C. SEPARATE CONTROLS FOR SPACES ENCLOSED BY CEILING HEIGHT PARTITIONS NOT EXCEEDING 6,000 SQUARE FEET....

AREA NOTES:
1. SHUT-OFF CONTROLS NOT PROVIDED FOR OCCUPANT SAFETY.
2. CONTROL SYSTEM TO PERFORM BLINK-WARM SEQUENCE TO INDICATE IMPENDING LIGHTING SHUTOFF.
3. FURNISH AND INSTALL 2-HOUR OVERRIDE SWITCHES ("ALT. OCCUPANCY SENSORS FOR AFTERHOURS CONTROL. REFER TO PLANS FOR LOCATIONS.
4. CONTROLS TO HAVE CONTROL ZONES NO GREATER THAN 600 SQUARE FEET.
5. SHALL CONTROL LIGHTING IN EACH AISLEWAY INDEPENDENTLY AND SHALL NOT CONTROL LIGHTING BEYOND THE AISLEWAY BEING CONTROLLED BY THE SENSOR.
6. NOT CONTROL MORE THAN 500 WATTS OF RATED LIGHTING POWER.

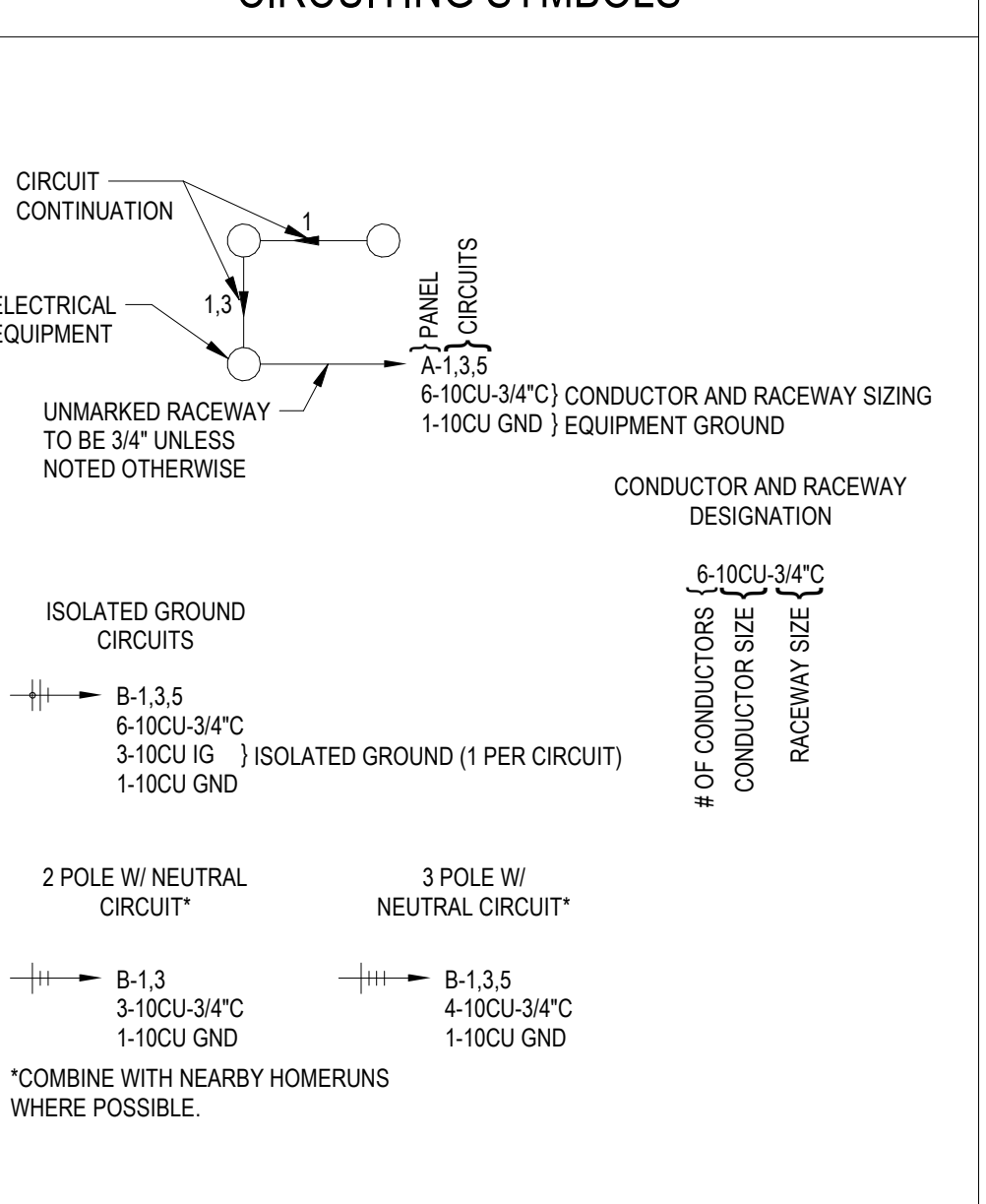
LABEL	AREA TYPE	NO SHUT-OFF CONTROLS	MULTILEVEL LIGHTING CONTROLS (130.1(b))	MANUAL ON	SHUT-OFF CONTROLS (130.1(c))				AUTO DAYLIGHTING (130.1(d))			NOTES	
					AUTO TIME-SWITCH CONTROL (130.1(c)(3-4))	FULL AUTO ON	FULL AUTO OFF	50% AUTO OFF	TIMEOUT (MINUTES)	DAYLIGHT SENSOR	DESIGN ILLUMINANCE @ 0' AFF (fc)		CONTROLLED RECEPTACLES (130.5(d))
IC2a	UTILITY ROOM	•		•									1
IC11	ENCLOSED OFFICE		•	•									
IC18	CLASSROOM / TRAINING		•	•									

LIGHT FIXTURE SCHEDULE

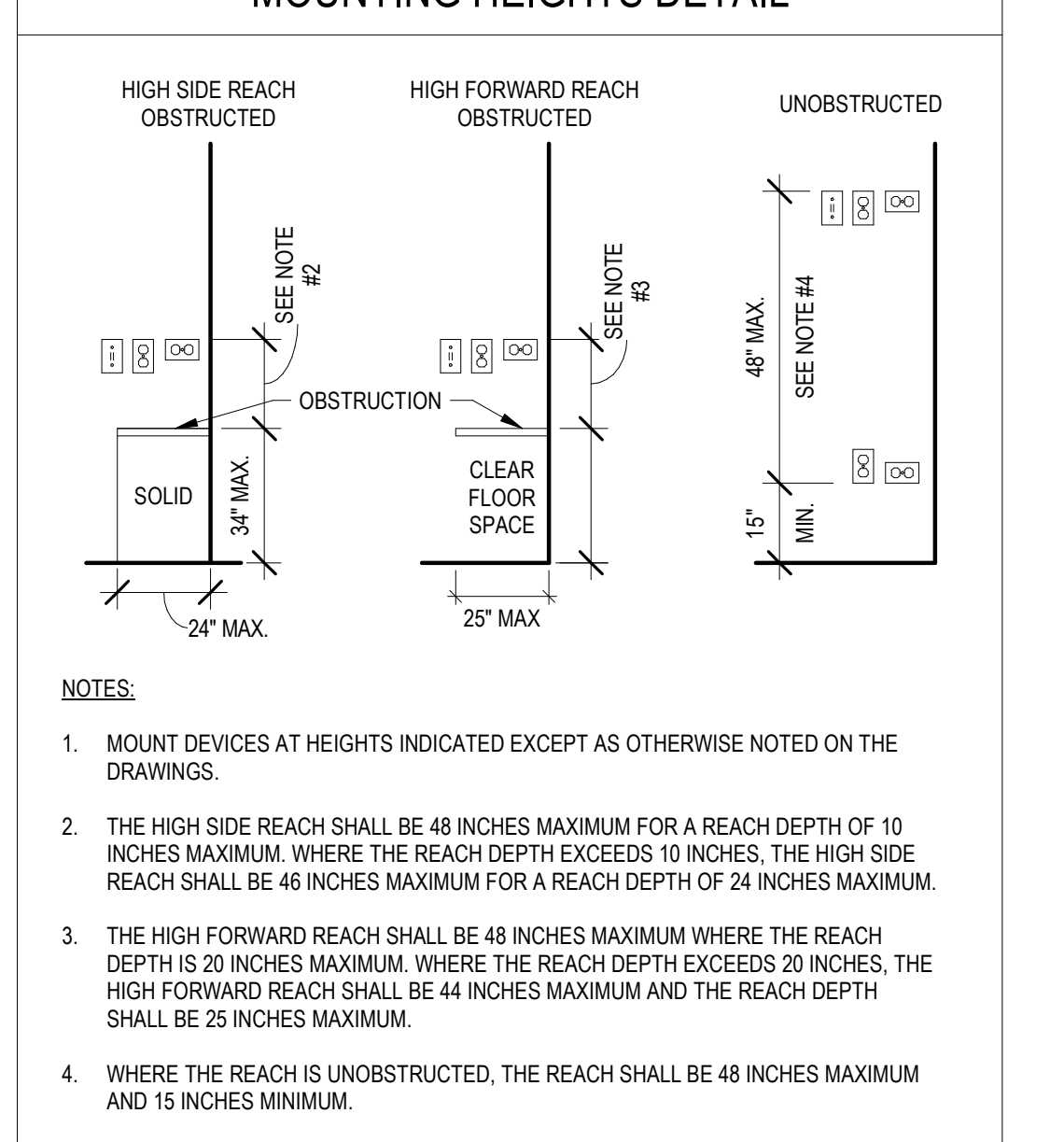
GENERAL NOTES:
A. COORDINATE LIGHT FIXTURE FINISHES WITH INTERIOR DESIGNER AND/OR ARCHITECT.
B. CONTROL ABBREV: OCC = INTEGRAL OCCUPANCY SENSOR; PC = INTEGRAL PHOTOCELL.

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LUMENS	CCT	CRI	CONTROL	VOLTAGE	WATTAGE	FINISH	MOUNTING
EX	THERMOPLASTIC RED EXIT SIGN	LITHONIA LIGHTING	LQM-S-W-3-G-120/277						2 W		SURFACE/WALL
LS1	4' STRIP	COOPER	4-SNX-51SL-LC-UNC-L840-CD	5435	4000K	80		MVOLT		WHITE	SURFACE/SUSPENDED
LS2	4' LINEAR	MARK ARCHITECTURAL LIGHTING	S4PID LCB 12FT MSL4 80CRI 40K 1000LMF DBW 180CRI 40K 1600LMF BW SCT MIN10 FLL DC MVOLT WHITT ZT F1/144A SOCY WHTCY WORD	1000 LMFT	4000K	80		MVOLT		WHITE	SUSPENDED
SW1	ADJUSTABLE SLIM WALL PACK	COOPER	ASWPLED1S	2,000-4,000	4000K	70	PC	MVOLT		BRONZE	WALL
WS1	2' LED STRIP LIGHT	LITHONIA LIGHTING	WL2-22L-MVOLT-EZ10-LP835						21 W		WALL

CIRCUITING SYMBOLS



MOUNTING HEIGHTS DETAIL



ELECTRICAL SYMBOLS LEGEND

SYMBOL	DESCRIPTION
[Symbol]	HOMERUN
[Symbol]	LED LIGHT FIXTURE
[Symbol]	EMERGENCY LED LIGHT FIXTURE
[Symbol]	LED DOWN LIGHT FIXTURE
[Symbol]	2X2 LED TROFFER LIGHT FIXTURE
[Symbol]	2X2 EMERGENCY LED TROFFER LIGHT FIXTURE
[Symbol]	LED WALL SCONCE
[Symbol]	LED POLE MOUNTED AREA LIGHT
[Symbol]	LED EGRESS BUGEYE
[Symbol]	LED EXIT SIGN
[Symbol]	LED EXIT SIGN WITH BUGEYE
[Symbol]	PANEL BOARD
[Symbol]	DATA PANEL
[Symbol]	SIMPLEX RECEPTACLE
[Symbol]	DUPLEX RECEPTACLE
[Symbol]	QUADRUPEX RECEPTACLE
[Symbol]	CEILING RECEPTACLE
[Symbol]	PENDANT RECEPTACLE
[Symbol]	GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE
[Symbol]	ISOLATED GROUND RECEPTACLE
[Symbol]	WEATHERPROOF RECEPTACLE
[Symbol]	RECEPTACLE WITH MOUNTING HEIGHT
[Symbol]	FLOOR QUADRUPEX RECEPTACLE
[Symbol]	SPECIAL PURPOSE RECEPTACLE, MATCH TO "NEMA" PATTERN OF EQUIPMENT
[Symbol]	DIRECT CONNECTION
[Symbol]	DISCONNECT
[Symbol]	JUNCTION BOX
[Symbol]	FLOOR JUNCTION BOX
[Symbol]	SINGLE POLE SWITCH
[Symbol]	THREE WAY SWITCH
[Symbol]	DIMMER SWITCH
[Symbol]	THREE WAY/DIMMER SWITCH
[Symbol]	OCCUPANCY SENSOR SWITCH
[Symbol]	MOTOR RATED SWITCH
[Symbol]	KEYED SWITCH
[Symbol]	DATA RECEPTACLE COORDINATE EXACT REQUIREMENTS WITH NETWORK SERVICES
[Symbol]	TELEPHONE RECEPTACLE COORDINATE EXACT REQUIREMENTS WITH NETWORK SERVICES
[Symbol]	TELEPHONE AND DATA RECEPTACLE COORDINATE EXACT REQUIREMENTS WITH NETWORK SERVICES
[Symbol]	DATA RECEPTACLE WITH 3/4" CONDUIT & DUPLEX RECEPTACLE
[Symbol]	OCCUPANCY SENSOR, CEILING MOUNT
[Symbol]	HEARING IMPAIRED DOORBELL TRANSFORMER
[Symbol]	DOOR BELL
[Symbol]	DOOR BELL CHIME
[Symbol]	HEARING IMPAIRED DOORBELL HORN/STROBE
[Symbol]	SMOKE DETECTOR (PE/CO) - PHOTOELECTRIC, CARBON MONOXIDE
[Symbol]	FIRE SMOKE DAMPER
[Symbol]	WIRELESS ACCESS POINT
[Symbol]	SECURITY CAMERA
[Symbol]	CARD READER
[Symbol]	123 ARCHITECTURAL ROOM NO.
[Symbol]	SOLID HEAVY LINE INDICATES RACEWAY AND OR CONDUCTORS ABOVE FINISHED FLOOR.
[Symbol]	DASHED HEAVY LINE INDICATES RACEWAY AND OR CONDUCTORS BELOW FINISHED FLOOR.
[Symbol]	MECHANICAL EQUIPMENT NUMBER
[Symbol]	DETAIL NUMBER CALLOUT
[Symbol]	2 GANG TV BOX

BASIS OF DESIGN

CODES:
2018 INTERNATIONAL BUILDING CODE (IBC)
2017 NATIONAL ELECTRIC CODE (NEC)
2018 INTERNATIONAL FIRE CODE (IFC)

**** INCLUDING ALL APPLICABLE AMENDMENTS**

GENERAL ELECTRICAL NOTES

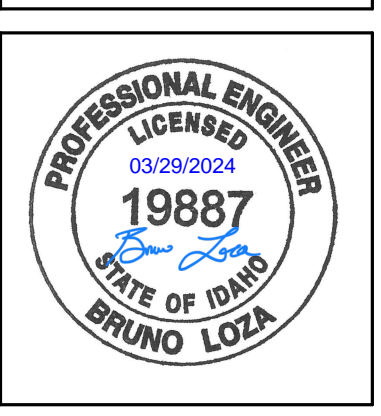
- THE ELECTRICAL SYSTEMS DEFINED BY THESE PLANS, INCLUDING ANY ACCOMPANYING SPECIFICATIONS, ARE BASED ON THE BEST AVAILABLE INFORMATION AND ARE TO BE CONSTRUCTED AS COMPLETE AND OPERABLE SYSTEMS AND SHALL BE BID WITH THIS INTENT. THE CONTRACTOR SHALL VISIT THE SITE, REVIEW ALL RELEVANT DOCUMENTATION, AND BECOME FAMILIAR WITH THE SCOPE OF WORK TO BE ACCOMPLISHED. SHOULD ANY ERROR, OMISSION, OR CONFLICT EXIST IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING BEFORE SUBMITTING THEIR BID PRICE SO THAT A PRE-BID ADDENDUM CAN BE ISSUED. OTHERWISE, THE CONTRACTOR SHALL SUPPLY THE PROPER MATERIALS AND LABOR TO INSTALL COMPLETE AND OPERABLE SYSTEMS INCLUDING OF THEIR ORIGINAL BID UPON COMPLETION OF EACH ELECTRICAL SYSTEM. THE CONTRACTOR SHALL TEST AND CONFIRM ITS PROPER OPERATION. ANY INCOMPLETE SYSTEM SHALL BE MADE COMPLETE AND OPERABLE PRIOR TO PROJECT CLOSEOUT.
- THE PLANS FOR OTHER TRADES, SUCH AS ARCHITECTURAL, MECHANICAL, PLUMBING, AND FIRE ALARM, ARE CONSIDERED A PART OF THE ELECTRICAL DOCUMENTS SO FAR AS ANY ELECTRICAL ITEMS THEY MAY CONTAIN. THE CONTRACTOR SHALL REFER TO AND COORDINATE WITH THEM. NO EXTRA COST SHALL BE ALLOWED FOR FAILURE TO COORDINATE THE CONTRACT DOCUMENTS WITH OTHER TRADES OR IF EQUIPMENT DIMENSIONS ARE GREATER THAN SPECIFIED OR DIMENSIONED ON THE ELECTRICAL PLANS.
- THE CONTRACTOR SHALL PROVIDE EQUIPMENT, MATERIALS, AND LABOR REQUIRED FOR THE ELECTRICAL CONNECTIONS OF ALL EQUIPMENT SHOWN ON THE PLANS FOR OTHER TRADES, SUCH AS ARCHITECTURAL, MECHANICAL, PLUMBING, AND FIRE ALARM.
- THIS PROJECT IS TO BE INSTALLED IN STRICT ACCORDANCE WITH THE MOST RECENT LOCAL, STATE, AND NATIONAL CODES. IF AT ANY TIME DURING OR AFTER CONSTRUCTION, SOMETHING IS FOUND TO BE INSTALLED IN VIOLATION OF THESE CODES, IT SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST.
- ALL EQUIPMENT PROVIDED BY THE CONTRACTOR SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING AGENCY THAT IS ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION AND BE PROPERLY INSTALLED FOR THE CONDITIONS AND SPACE THAT IT IS BEING INSTALLED WITHIN.
- THE CONTRACTOR SHALL INSTALL A SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN EACH CONDUIT RUN. CONDUIT SHALL NOT BE USED AS AN EQUIPMENT GROUNDING CONDUCTOR. THE CONTRACTOR SHALL GROUND THE ELECTRICAL SYSTEM IN ACCORDANCE WITH THE MOST RECENT LOCAL, STATE, AND NATIONAL CODES.
- ALL CONDUIT SHALL BE INSTALLED PARALLEL AND PERPENDICULAR TO ROOF JOISTS. CONDUIT LAYOUTS SHOWN ON THE PLANS ARE DIAGRAMMATIC, NOT INDICATING THE EXACT ROUTING REQUIRED. THE CONTRACTOR SHALL ROUTE THE CONDUITS AS REQUIRED BY THE CONDITIONS OF THE INSTALLATION AND SHALL COORDINATE WITH DWG WORK, PIPING, EQUIPMENT, BUILDING STRUCTURE, AND OTHER POTENTIAL OBSTRUCTIONS.
- THE CONTRACTOR SHALL ALLOW THE MOVEMENT, BEFORE ROUGH-IN, OF ANY ELECTRICAL PANEL, DEVICE, LUMINAIRE, ETC. A DISTANCE OF 10 FEET WITHOUT REQUIRING ADDITIONAL COST TO THE PROJECT.
- THE CONTRACTOR SHALL SECURE ALL CONDUIT TO THE STRUCTURE AS IT IS SET IN PLACE USING INDUSTRY STANDARD METHODS AND PRACTICES. TO ENSURE ALL DEVICES ARE RIGIDLY FIXED, THE CONTRACTOR SHALL SECURE ALL DEVICE BOXES WITH BRACKETS, HANGERS, ETC. DESIGNED FOR THE APPLICATION.
- UNLESS OTHERWISE NOTED, THE MINIMUM SIZE CONDUIT SHALL BE 3/4-INCH. FOR DRY INTERIOR LOCATIONS THAT ARE NOT SUBJECT TO PHYSICAL DAMAGE, THE CONDUIT SHALL BE EMT WITH STEEL SET SCREW FITTINGS. FOR INTERIOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE AND EXTERIOR LOCATIONS, EXCEPT FOR THE SERVICE ENTRANCE, THE CONDUIT SHALL BE GALVANIZED RIGID STEEL CONDUIT (GRC). FOR DAMP INTERIOR LOCATIONS THAT ARE NOT SUBJECT TO PHYSICAL DAMAGE, THE CONDUIT SHALL BE EMT WITH COMPRESSION GLAND TYPE FITTINGS. FOR WET INTERIOR LOCATIONS THAT ARE NOT SUBJECT TO PHYSICAL DAMAGE, THE CONDUIT SHALL BE SCHEDULE 40 PVC. FOR WET INTERIOR LOCATIONS THAT ARE SUBJECT TO PHYSICAL DAMAGE, THE CONDUIT SHALL BE GRC. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC WITH GRC ELBOWS AND RISERS THAT ARE WRAPPED IN CORROSION-RESISTANT MATERIALS WHERE IN DIRECT CONTACT WITH SOIL OR CONCRETE.
- FLEXIBLE CONDUIT AND MC CABLE SHALL BE USED FOR CONNECTIONS TO LIGHT FIXTURES AND FINAL CONNECTIONS TO MOTORS OR OTHER EQUIPMENT SUBJECT TO VIBRATION. LENGTHS OF FLEXIBLE OR LIQUID-TIGHT FLEXIBLE CONDUIT SHALL NOT BE GREATER THAN 72 INCHES.
- THE CONTRACTOR SHALL PROVIDE ALL EMPTY CONDUITS WITH A 200LB RATED NYLON PULL CORD.
- WHERE WIRE SIZE IS NOT SHOWN ON THE PLANS FOR 20A, 120V BRANCH CIRCUITS, THE CIRCUIT SHALL CONSIST OF TWO #12 THIN COPPER CONDUCTORS, AND ONE #12 THIN COPPER GROUND IN 3/4-INCH CONDUIT. REFER TO EQUIPMENT SCHEDULES, FEEDER SCHEDULES, AND NOTES ON THE PLANS FOR WIRE AND CONDUIT SIZING FOR ALL OTHER BRANCH AND FEEDER CIRCUITS. THE CONTRACTOR SHALL VERIFY ACTUAL INSTALLATION CONDITIONS AND MAINTAIN A MAXIMUM VOLTAGE DROP OF 3-PERCENT FOR BRANCH CIRCUITS AND 2-PERCENT FOR FEEDER CIRCUITS.
- UNLESS OTHERWISE NOTED, CONDUCTORS SHALL BE 600VAC RATED, TYPE THHN/THWN-2 COPPER. CONDUCTORS UP TO #10 MAY BE SOLID OR STRANDED, AND CONDUCTORS #8 OR LARGER SHALL BE STRANDED. TERMINATION OF STRANDED CONDUCTORS MUST BE MADE USING UL-LISTED DEVICES DESIGNED FOR THE APPLICATION.
- AFTER THE INSTALLATION IS COMPLETE, THE CONTRACTOR SHALL CLEAN THE ENTIRE ELECTRICAL SYSTEM, INCLUDING REMOVING ALL FINGERPRINTS, FOREIGN MATTER, PAINT, DIRT, GREASE, AND UNNECESSARY LABELS OR STICKERS FROM FIXTURES AND EQUIPMENT. ADDITIONALLY, THE CONTRACTOR SHALL REMOVE ALL ACCUMULATED RUBBISH AND DEBRIS FROM THE PREMISES.
- ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES SHALL BE SEALED WITH A FIRE-RATED SEALANT, SUCH AS 3M FIRESTOP FIRE-BARRIER CAULK, PUTTY, WRAP STRIPS, AND COMPOSITE SHEETS, OR DOW CORNING 3-6548 SILICONE RTV FOAM.
- ALL RECESSED ELECTRICAL DEVICES, INCLUDING BUT NOT LIMITED TO LUMINAIRES, RECEPTACLES, AND SWITCHES, INSTALLED IN FIRE-RATED CEILING OR WALLS SHALL BE ENCLOSED WITH AN APPROVED ENCLOSURE CARRYING THE SAME FIRE RATING AS THE CEILING OR WALL.
- THE CONTRACTOR SHALL COORDINATE THE LOCATION OF WALL-MOUNTED DEVICES WITH CABINETS AND OTHER WALL OBSTRUCTIONS AND CEILING-MOUNTED DEVICES WITH CEILING OBSTRUCTIONS. ANY DEVICES THAT NEED TO BE RELOCATED SHALL BE COORDINATED WITH THE ELECTRICAL ENGINEER BEFORE ROUGH-IN.
- DEVICE LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. EXACT DEVICE LOCATIONS SHALL BE AS INDICATED ON THE ARCHITECTURAL PLANS OR AS DIMENSIONED. IF NOT SHOWN ON THE ARCHITECTURAL PLANS OR DIMENSIONED ON THE ELECTRICAL PLANS, VERIFY THE EXACT LOCATION WITH THE ARCHITECT PRIOR TO ROUGH-IN.

ELECTRICAL SHEET INDEX

SHEET NUMBER	SHEET NAME
E0.0	ELECTRICAL COVER SHEET
E0.1	ENERGY CODE COMPLIANCE
E1.1	LIGHTING PLAN
E2.1	POWER PLAN
E2.2	POWER PLAN - ROOF
E3.1	SINGLE-LINE DIAGRAM
E3.2	PANEL SCHEDULES

REVISIONS

NO.	DATE	DESCRIPTION



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UNIVERSITY OF IDAHO
RINKER CREEK RANCH BARN REMODEL
FAIRFIELD, IDAHO 83327

DATE: 3/29/2024
PROJECT NO: 2306.01/99Z81

SHEET:
E0.0
ELECTRICAL COVER SHEET



COMcheck Software Version COMcheckWeb Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: Rinker Rock Creek Barn
Project Type: New Construction

Construction Site: _____ Owner/Agent: _____ Designer/Contractor: _____

Additional Efficiency Package(s)

Credits: 1.0 Required 0.0 Proposed

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-101 (Common Space Types:Workshop)	398	1.14	454
2-105 (Common Space Types:Storage)	130	0.63	82
3-102 (Common Space Types:Office - Enclosed)	78	0.93	73
4-104 (Common Space Types:Workshop)	361	1.14	412
5-103 (Common Space Types:Workshop)	600	1.14	684
Total Allowed Watts =			1704

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Watt (C X D)	E
1-101 (Common Space Types:Workshop) LS2: Other	1	3	35	105
2-105 (Common Space Types:Storage) LS1: Other	1	1	56	56
3-102 (Common Space Types:Office - Enclosed) LS1: Other	1	1	56	56
4-104 (Common Space Types:Workshop) LS1: Other	1	4	56	224
5-103 (Common Space Types:Workshop) LS2: Other	1	6	35	210
Total Proposed Watts =			651	

Interior Lighting PASSES: Design 62% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Project Title: Rinker Rock Creek Barn Report date: 03/29/24
Data filename: _____ Page 2 of 9

Justin McKeague
Name - Title

03/29/24
Date

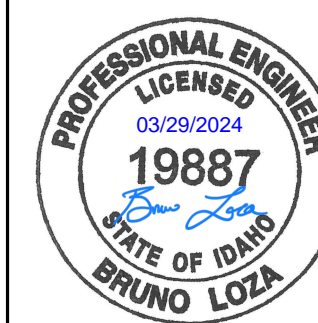
Project Title: Rinker Rock Creek Barn Report date: 03/29/24
Data filename: _____ Page 3 of 9

REVISIONS

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UNIVERSITY OF IDAHO
RINKER ROCK CREEK RANCH BARN REMODEL
FAIRFIELD, IDAHO 83327

DATE: 3/29/2024
PROJECT NO: 2306.01/99Z81

SHEET:
E0.1

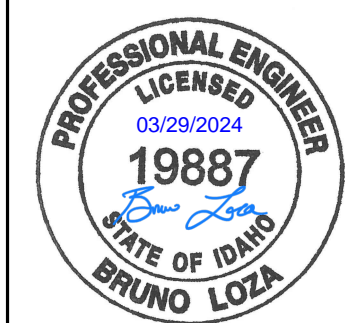
ENERGY CODE
COMPLIANCE

GENERAL SHEET NOTES

- A. COORDINATE INSTALLATION OF ELECTRICAL SYSTEMS TO AVOID INTERFERENCE WITH DUCTWORK/PIPING AND OTHER TRADES. ADDITIONALLY, COORDINATE THE PLACEMENT OF LIGHT FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. LOCATION OF LIGHT FIXTURES SHALL GOVERN WHEN CONFLICTS WITH SUPPLY/EXHAUST DIFFUSERS OCCUR.
- B. ALL BATTERY-POWERED OR CONTINUOUS BURN LUMINAIRES SHOWN ON THE PLANS, SUCH AS EXIT LIGHTS, NIGHT LIGHTS, OR EMERGENCY LIGHTS, SHALL BE CONNECTED TO THE UNSWITCHED LEG OF THE LIGHTING CIRCUIT FEEDING THAT AREA.
- C. LUMINAIRES INSTALLED IN THE MECHANICAL ROOMS SHALL BE PLACED SO THAT ALL EQUIPMENT IS ADEQUATELY ILLUMINATED AFTER THE MECHANICAL EQUIPMENT IS IN PLACE.
- D. ALL LUMINAIRES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE, NOT THE CEILING GRID OR OTHER NONSTRUCTURAL MEMBERS.
- E. LUMINAIRES INSTALLED IN DAMP OR WET LOCATIONS SHALL BE UL LISTED FOR INSTALLATION IN THE ENVIRONMENT. ADDITIONALLY, CARE SHOULD BE TAKEN TO ENSURE THAT DIFFUSERS AND LENSES ARE APPROPRIATE FOR THEIR INSTALLED USE, SO THAT PREMATURE DISCOLORATION WILL NOT RESULT DUE TO EXPOSURE TO UV LIGHT, CHEMICALS, OR OTHER CONDITIONS.
- F. UNLESS OTHERWISE NOTED, PROVIDE #10 AWG CONDUCTORS FOR ALL CIRCUITS OF 100'-0" OR MORE.
- G. ALL SUSPENDED LIGHT FIXTURES TO BE SUSPENDED USING STEMS.

KEYNOTES

- L1 STEM-MOUNT OCCUPANCY SENSORS AT SAME HEIGHT AS LIGHT FIXTURES IN AREA.



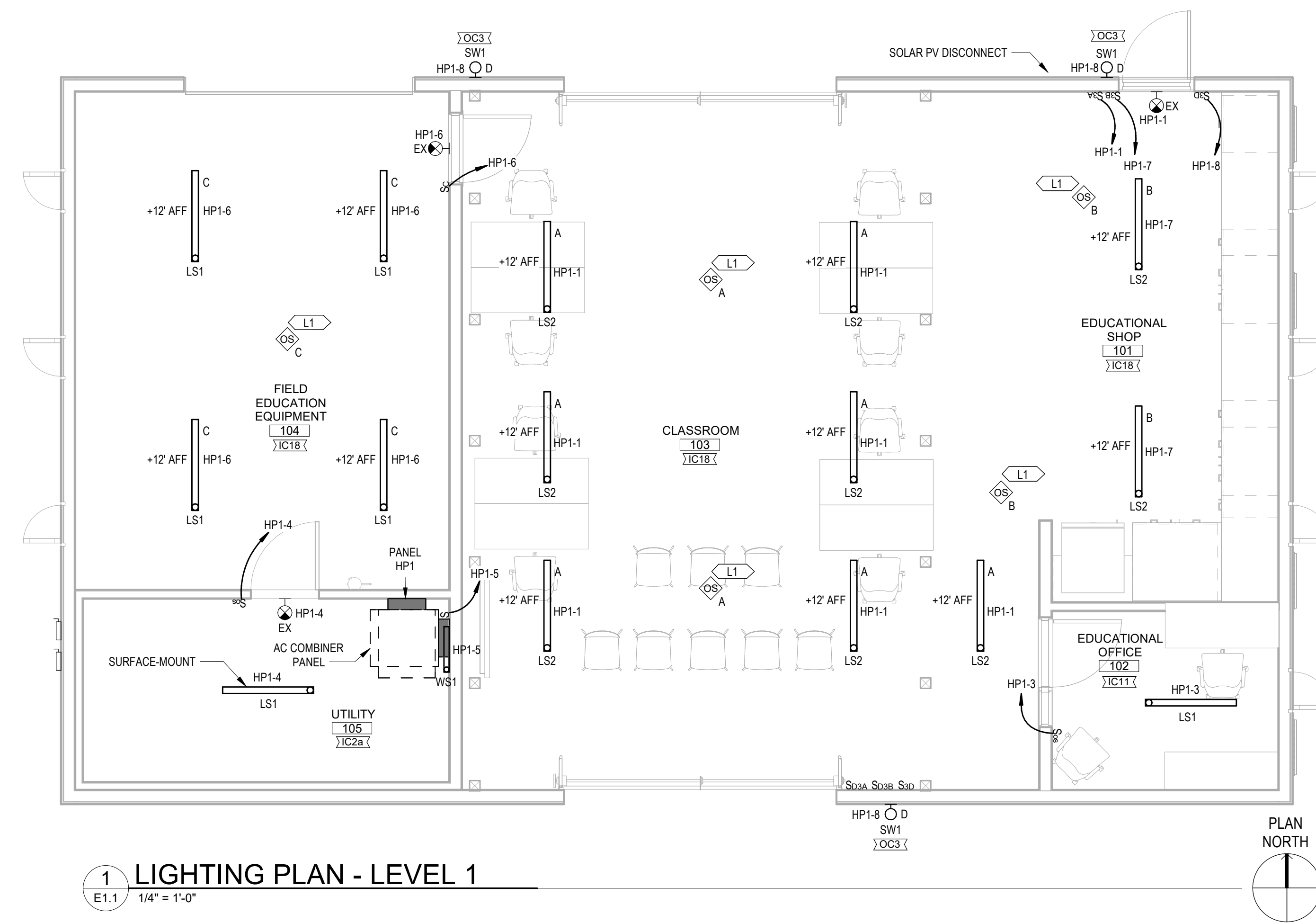
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FAIRFIELD, IDAHO 83327

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PROJECT NO: 2306.01/99Z81

SHEET:
E1.1

LIGHTING PLAN

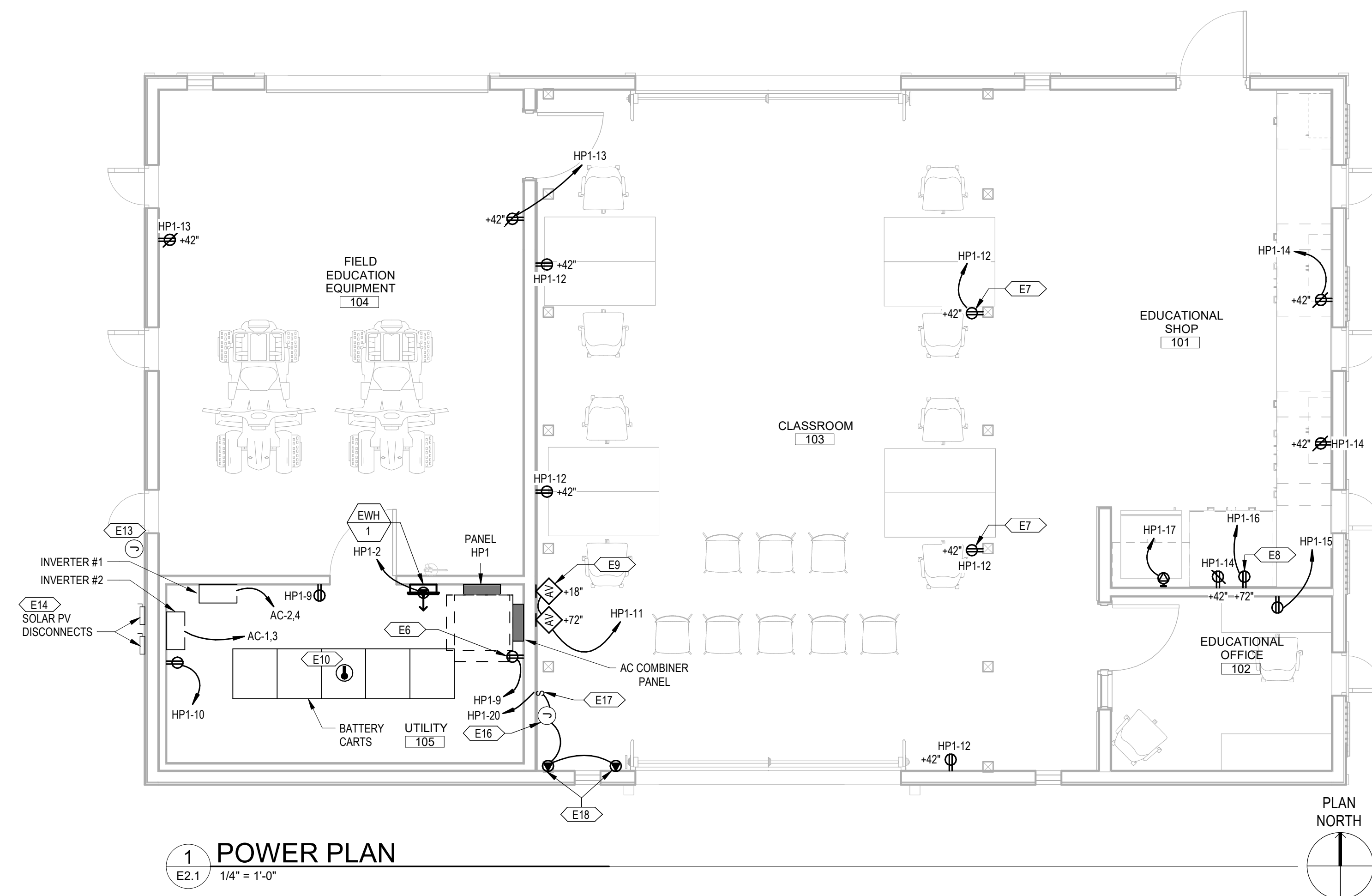


GENERAL SHEET NOTES

- A. COORDINATE INSTALLATION OF ELECTRICAL SYSTEMS TO AVOID INTERFERENCE WITH DUCTWORK/PIPING AND OTHER TRADES.
- B. COORDINATE EXACT LOCATIONS FOR ALL EQUIPMENT/ELECTRICAL CONNECTIONS AND OBTAIN WIRING DIAGRAMS FROM EQUIPMENT SUPPLIERS PRIOR TO ROUGH-IN. UNLESS OTHERWISE DIRECTED, MAKE FINAL CONNECTIONS FOR ALL EQUIPMENT. ANY INCORRECT WIRING OF EQUIPMENT INSTALLED WITHOUT A WIRING DIAGRAM SHALL BE CORRECTED AT NO COST TO THE OWNER. PROVIDE COPIES OF WIRING DIAGRAMS WITHIN EACH PIECE OF EQUIPMENT AND THE OPERATION/MAINTENANCE MANUALS.
- C. COORDINATE WITH THE MECHANICAL CONTRACTOR TO PROVIDE CONDUIT AND DEVICE MOUNTING BOXES FOR THERMOSTATS AND OTHER MECHANICAL CONTROLS. REFER TO THE MECHANICAL PLANS FOR THE LOCATION OF THERMOSTATS.
- D. IN ACCORDANCE WITH NEC ARTICLE 210.63, PROVIDE AN ACCESSIBLE 20-AMP, 120-VOLT SERVICE RECEPTACLE WITHIN 25 FEET INSTALLED OF ALL HEATING, VENTILATION, AIR CONDITIONING, AND REFRIGERATION. THE RECEPTACLE SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION AND BE INSTALLED IN A WEATHERPROOF CAST METAL BOX.
- E. ALL SINGLE-PHASE RECEPTACLES 50-AMPS OR LESS AND THREE-PHASE RECEPTACLES 100-AMPS OR LESS IN AREAS SPECIFIED IN NEC ARTICLE 210.8(B) SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL.
- F. IN ACCORDANCE WITH NEC ARTICLE 406.12(1), ALL 15- AND 20-AMP 125- AND 250-NON-LOCKING-TYPE RECEPTACLES SHALL BE LISTED AS TAMPER-RESISTANT RECEPTACLES.
- G. UNLESS OTHERWISE NOTED, PROVIDE #10 AWG CONDUCTORS FOR ALL CIRCUITS OF 100'-0" OR MORE.
- H. ALL EQUIPMENT AND DEVICES (DISCONNECTS, BREAKERS, FUSES, ETC.) TO BE RATED FOR PV USE.

KEYNOTES

- E6 RECEPTACLE TO BE MOUNTED IN STORAGE AREA ABOVE UTILITY ROOM. INSTALL AT 6' AFF.
- E7 ROUTE CONDUITS FROM OVERHEAD, DOWN COLUMNS FOR RECEPTACLE POWER.
- E8 RECEPTACLE LOCATED IN CABINET FOR WIRELESS ROUTER.
- E9 FURNISH AND INSTALL LEGRAND PASS AND SEYMOUR TV3MTVSSW WALL BOX (OR EQUAL) FOR POWER, DATA, AND AV WIRING PASS-THROUGH MOUNTED AT INDICATED HEIGHT ABOVE FINISHED FLOOR. VERIFY MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN.
- E10 FURNISH AND INSTALL HEAT DETECTOR FOR ACTIVATION OF BATTERY FIRE SUPPRESSION SYSTEM. ROUTE 3/4" CONDUIT AND WIRING FROM DETECTOR TO FIRE SUPPRESSION SYSTEM CONTROL PANEL. COORDINATE INSTALLATION WITH SUPPRESSION SYSTEM MANUFACTURER REQUIREMENTS.
- E13 FURNISH AND INSTALL WIRELESS RAPID SHUTDOWN SWITCH WITH "ON" AND "OFF" POSITIONS FOR SHUTDOWN OF DC CONDUCTOR VOLTAGE WITHIN 1'-0" OF PV MODULE ARRAY BOUNDARY ON ROOF. VERIFY COMPATIBILITY WITH INVERTER. ROUTE CONDUIT FROM SWITCH TO PV MODULE ARRAY. UPON RAPID SHUTDOWN INITIATION, RAPID SHUTDOWN SWITCH TO LIMIT DC CONDUCTOR VOLTAGE NOT MORE THAN 30V WITHIN 30 SECONDS TO NOT MORE THAN 80V WITHIN 30 SECONDS TO CONDUCTORS OUTSIDE THE ARRAY BOUNDARY. PROVIDE A LABEL WITH THE FOLLOWING WORDING LOCATED ON OR NO MORE THAN 3'-0" FROM THE SWITCH. REFER TO NEC 690.12.
- E14 FURNISH AND INSTALL DISCONNECT FOR SOLAR PV SYSTEM. PERMANENTLY MARK "PV SYSTEM DISCONNECT" PER NEC 690.13.
- E16 FURNISH AND INSTALL JUNCTION BOX AT 48" FOR LOUVER TIME CLOCK.
- E17 FURNISH AND INSTALL ON/OFF SWITCH FOR SUMMER/WINTER MODE SETTING OF LOUVERS. REFER TO MECHANICAL SCHEDULES FOR LABELING REQUIREMENTS.
- E18 ROUTE CIRCUIT TO LOUVERS VIA SUMMER/WINTER SWITCH AND TIMECLOCK. REFER TO MECHANICAL SCHEDULES FOR CONTROL REQUIREMENTS.



1 POWER PLAN
E2.1 1/4" = 1'-0"

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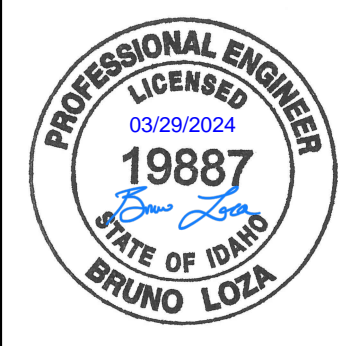


GENERAL SHEET NOTES

- A. COORDINATE INSTALLATION OF ELECTRICAL SYSTEMS TO AVOID INTERFERENCE WITH DUCTWORK/PIPING AND OTHER TRADES.
- B. COORDINATE EXACT LOCATIONS FOR ALL EQUIPMENT/ELECTRICAL CONNECTIONS AND OBTAIN WIRING DIAGRAMS FROM EQUIPMENT SUPPLIERS PRIOR TO ROUGH-IN. UNLESS OTHERWISE DIRECTED, MAKE FINAL CONNECTIONS FOR ALL EQUIPMENT. ANY INCORRECT WIRING OF EQUIPMENT INSTALLED WITHOUT A WIRING DIAGRAM SHALL BE CORRECTED AT NO COST TO THE OWNER. PROVIDE COPIES OF WIRING DIAGRAMS WITHIN EACH PIECE OF EQUIPMENT AND THE OPERATION/MAINTENANCE MANUALS.
- C. COORDINATE WITH THE MECHANICAL CONTRACTOR TO PROVIDE CONDUIT AND DEVICE MOUNTING BOXES FOR THERMOSTATS AND OTHER MECHANICAL CONTROLS. REFER TO THE MECHANICAL PLANS FOR THE LOCATION OF THERMOSTATS.
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- F. IN ACCORDANCE WITH NEC ARTICLE 406.12(1), ALL 15- AND 20-AMP 125- AND 250-NONLOCKING-TYPE RECEPTACLES SHALL BE LISTED AS TAMPER-RESISTANT RECEPTACLES.
- G. UNLESS OTHERWISE NOTED, PROVIDE #10 AWG CONDUCTORS FOR ALL CIRCUITS OF 100'-0" OR MORE.
- H. ALL EQUIPMENT AND DEVICES (DISCONNECTS, BREAKERS, FUSES, ETC.) TO BE RATED FOR PV USE.

KEYNOTES

- E11 PROVIDE CONNECTION FOR WALL-MOUNTED STARLINK ANTENNA SYSTEM. COORDINATE REQUIREMENTS WITH MANUFACTURER. COORDINATE FINAL LOCATION WITH OWNER BEFORE INSTALLATION. ENSURE FINAL LOCATION DOES NOT SHADE PV MODULES. ROUTE 3/4" CONDUIT TO WIRELESS ROUTER FOR LOW VOLTAGE WIRING.
- E15 FURNISH AND INSTALL PV MODULES WITH OPTIMIZERS. REFER TO SINGLE LINE DIAGRAM FOR EQUIPMENT SPECIFICATIONS. INSTALL PER NEC 690. COORDINATE FRAMING WITH STRUCTURAL ENGINEER.



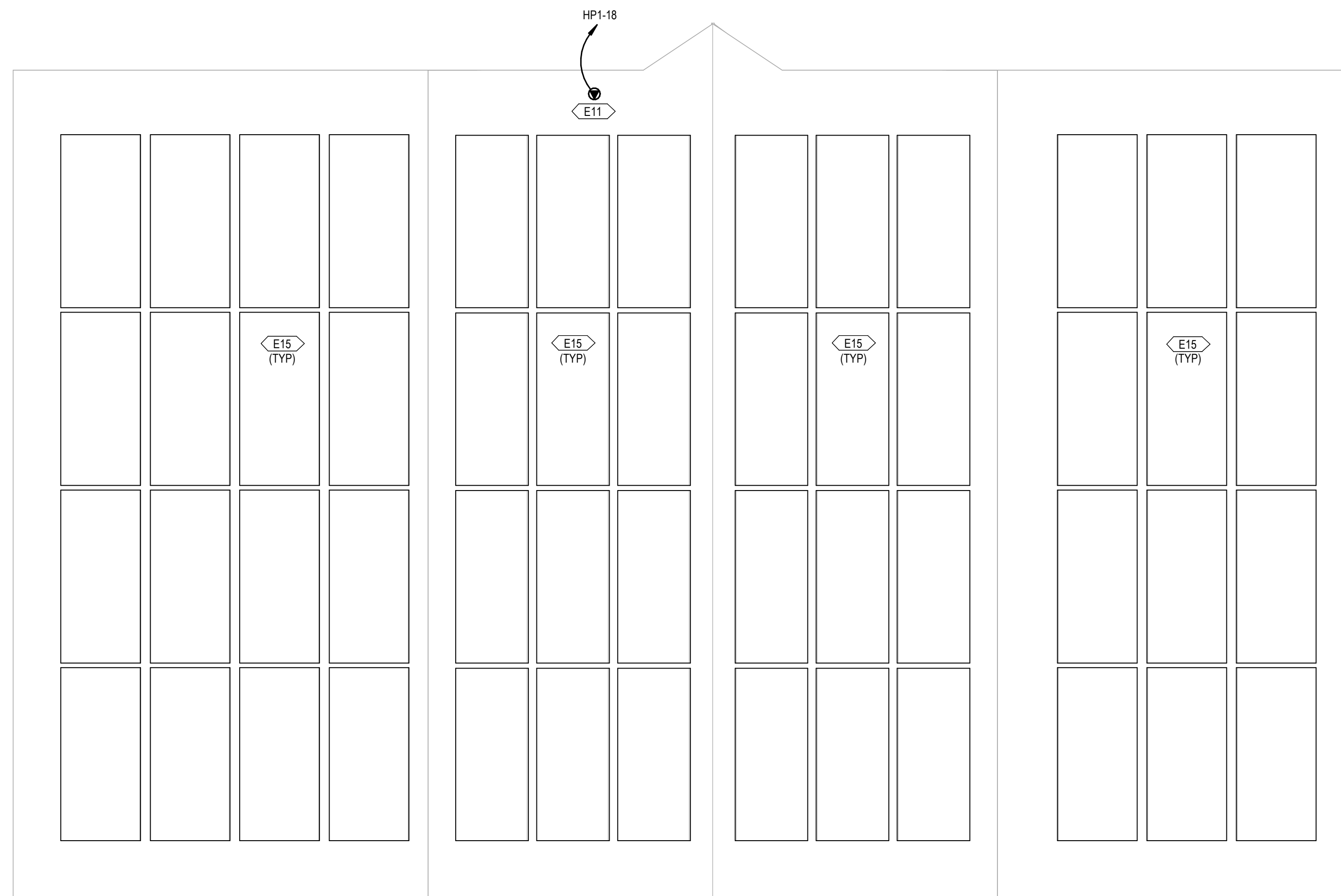
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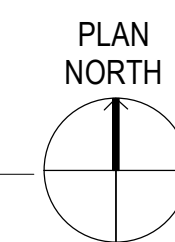
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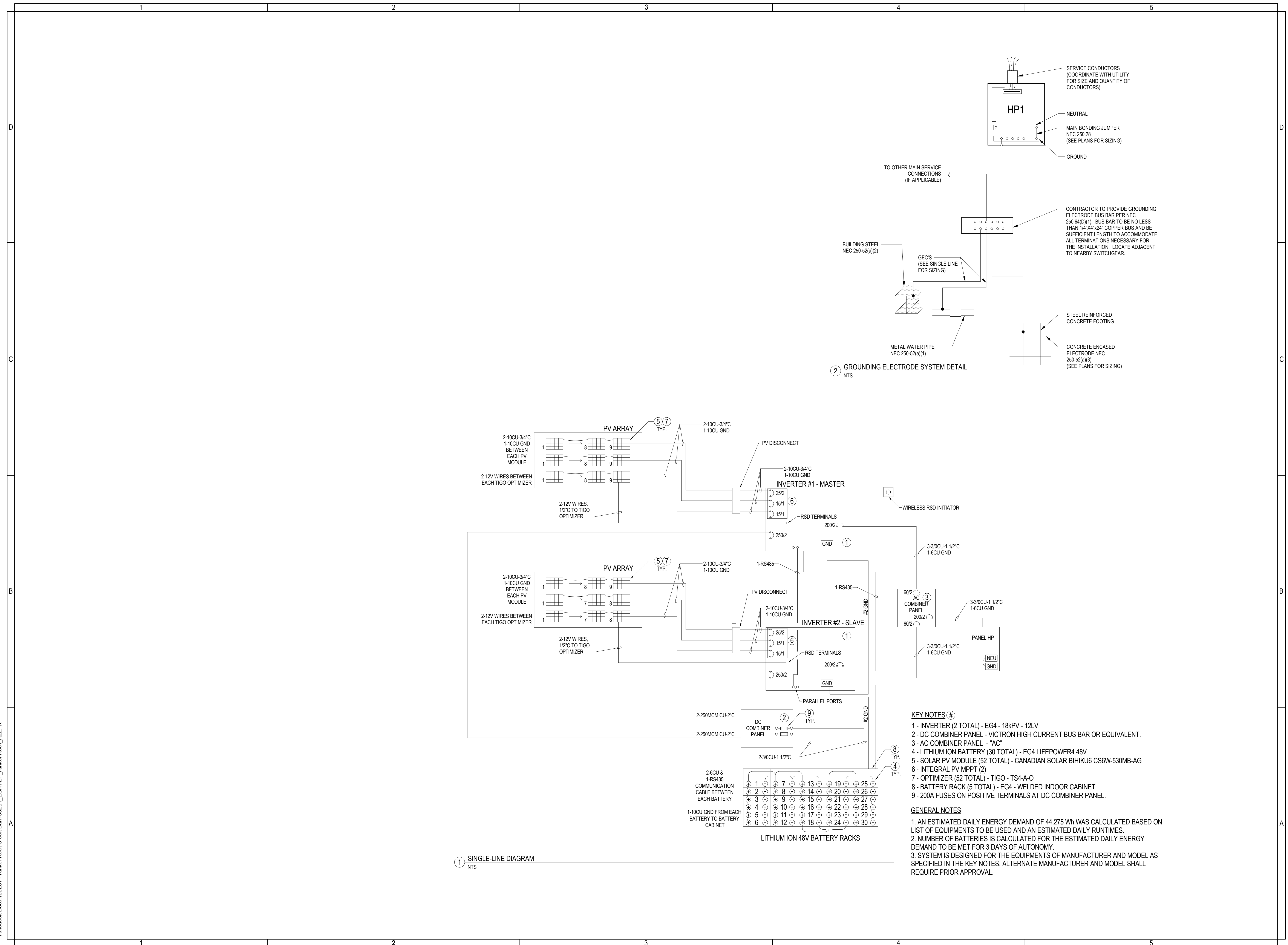
POWER PLAN - ROOF



1 POWER PLAN - ROOF
E2.2 1/4" = 1'-0"



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1 SINGLE-LINE DIAGRAM
NTS

2 GROUNDING ELECTRODE SYSTEM DETAIL
NTS

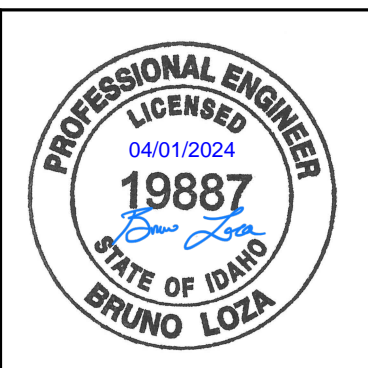
KEY NOTES (#)

- 1 - INVERTER (2 TOTAL) - EG4 - 18kPV - 12LV
- 2 - DC COMBINER PANEL - VICTRON HIGH CURRENT BUS BAR OR EQUIVALENT.
- 3 - AC COMBINER PANEL - "AC"
- 4 - LITHIUM ION BATTERY (30 TOTAL) - EG4 LIFEPOWER4 48V
- 5 - SOLAR PV MODULE (52 TOTAL) - CANADIAN SOLAR BIHIKU6 CS6W-530MB-AG
- 6 - INTEGRAL PV MPPT (2)
- 7 - OPTIMIZER (52 TOTAL) - TIGO - TS4-A-O
- 8 - BATTERY RACK (5 TOTAL) - EG4 - WELDED INDOOR CABINET
- 9 - 200A FUSES ON POSITIVE TERMINALS AT DC COMBINER PANEL.

GENERAL NOTES

1. AN ESTIMATED DAILY ENERGY DEMAND OF 44,275 Wh WAS CALCULATED BASED ON LIST OF EQUIPMENTS TO BE USED AND AN ESTIMATED DAILY RUNTIMES.
2. NUMBER OF BATTERIES IS CALCULATED FOR THE ESTIMATED DAILY ENERGY DEMAND TO BE MET FOR 3 DAYS OF AUTONOMY.
3. SYSTEM IS DESIGNED FOR THE EQUIPMENTS OF MANUFACTURER AND MODEL AS SPECIFIED IN THE KEY NOTES. ALTERNATE MANUFACTURER AND MODEL SHALL REQUIRE PRIOR APPROVAL.

REVISIONS



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SINGLE-LINE DIAGRAM

PANEL SCHEDULE NOTES

1. PROVIDE AFCI BREAKER.
2. PROVIDE GFCI BREAKER.
3. PROVIDE COMBINATION AFCI/GFCI BREAKER.
4. PROVIDE LOCKABLE BREAKER.
5. ROUTE CIRCUIT THROUGH LIGHTING CONTROL PANEL.

Branch Panel: AC

LOCATION: UTILITY 105
 SUPPLY FROM: INVERTERS
 MOUNTING: SURFACE
 ENCLOSURE: TYPE 1

VOLTS: 120/240 Single
 PHASES: 1
 WIRES: 3

AIC RATING:
 MAINS TYPE: MCB
 BUSSING: 200A
 MAIN CKTBR: 200/3

NOTES	CKT	DESCRIPTION	CODE	AMP	POLES	A	B	A	B	POLES	AMP	CODE	DESCRIPTION	CKT	NOTES
	1	INVERTER #1 - MASTER		60 A	2	0	0	0	0	2	60 A		INVERTER #1 - SLAVE	2	
--	3	Space											Space	4	--
--	5	Space			1					1			Space	6	--
--	7	Space			1					1			Space	8	--
--	9	Space			1					1			Space	10	--
--	11	Space			1					1			Space	12	--
--	13	Space			1					1			Space	14	--
--	15	Space			1					1			Space	16	--
--	17	Space			1					1			Space	18	--

Phase A: 4334 VA
 Phase B: 1912 VA
 Total Amps: 36 A 16 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
H - HEATING	750 VA	100.00%	750 VA	Total Conn. Load: 6246 VA
L - LIGHTING	641 VA	125.00%	801 VA	
Other	0 VA	0.00%	0 VA	Total Est. Demand: 6406 VA
R - RECEPTACLE	3060 VA	100.00%	3060 VA	Total Conn. Current: 26 A
MN - MISC NONCONTINUOUS	1795 VA	100.00%	1795 VA	Total Est. Demand Current: 27 A

Notes:

Branch Panel: HP1

LOCATION: UTILITY 105
 SUPPLY FROM: AC COMBINER PANEL
 MOUNTING: SURFACE
 ENCLOSURE: TYPE 1

VOLTS: 120/240 Single
 PHASES: 1
 WIRES: 3

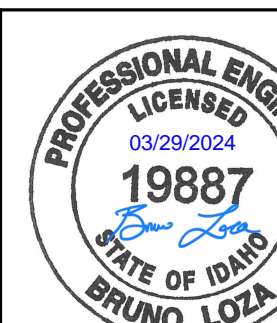
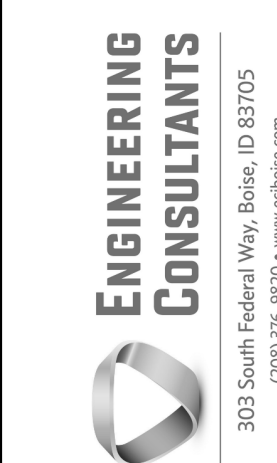
AIC RATING:
 MAINS TYPE: MLO
 BUSSING: 200A
 MAIN CKTBR:

NOTES	CKT	DESCRIPTION	CODE	AMP	POLES	A	B	A	B	POLES	AMP	CODE	DESCRIPTION	CKT	NOTES
	1	LTS - 103	L	20 A	1	247		750		1	20 A	H	EWH-1 UTILITY HEATER	2	
	3	LTS - 102	L	20 A	1		35		37	1	20 A	L	LTS - 105	4	
	5	LTS - ABOVE 105	L	20 A	1	21		142		1	20 A	L	LTS - 104	6	
	7	LTS - 101	L	20 A	1		70		90	1	20 A	L	LTS - EXTERIOR	8	
	9	REC - 105 AND ABOVE 105	R	20 A	1	360		180		1	20 A	R	REC - HEATER	10	
	11	REC - TV / TV BOX	R	20 A	1		360		900	1	20 A	R	REC - 103	12	
	13	REC - 104	R	20 A	1	360		540		1	20 A	R	REC - ABOVE COUNTER 101	14	
	15	REC - 102	R	20 A	1		180		180	1	20 A	R	REC - ROUTER (101 CABINET)	16	
	17	MN - DRYER	MN	20 A	1	1660		75		1	20 A	MN	MN - ANTENNA	18	
--	19	Spare		20 A	1		0		60	1	20 A	MN	LOUVERS	20	
--	21	Spare		20 A	1	0		0		1	20 A		Spare	22	--
--	23	Spare		20 A	1	0		0		0	1	20 A	Spare	24	--
--	25	Spare		20 A	1	0		0		1	20 A		Spare	26	--
--	27	Spare		20 A	1	0		0		0	1	20 A	Spare	28	--
--	29	Spare		20 A	1	0		0		1	20 A		Spare	30	--
--	31	Spare		20 A	1	0		0		0	1	20 A	Spare	32	--
--	33	Spare		20 A	1	0		0		1	20 A		Spare	34	--
--	35	Spare		20 A	1	0		0		0	1	20 A	Spare	36	--
--	37	Spare		20 A	1	0		0		1	20 A		Spare	38	--
--	39	Spare		20 A	1	0		0		0	1	20 A	Spare	40	--
--	41	Spare		20 A	1	0		0		1	20 A		Spare	42	--

Phase A: 4334 VA
 Phase B: 1912 VA
 Total Amps: 36 A 16 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
H - HEATING	750 VA	100.00%	750 VA	Total Conn. Load: 6246 VA
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PANEL SCHEDULES