

GREEN VALLEY ACADEMY STORAGE BUILDING EXTENSION

9091 EAST 100 SOUTH WEBER COUNTY, UTAH

GREEN VALLEY ACADEMY STORAGE
BUILDING EXTENSION

DRAWING INDEX

T11 COVER SHEET
ARCHITECTURAL DRAWINGS
A1.1 FLOOR PLANS
A2.1 ELEVATIONS
A3.1 BUILDING SECTION
A6.1 DETAILS
STRUCTURAL DRAWINGS
S1.1 STRUCTURAL PLANS
S1.2 STRUCTURAL NOTES AND SPECS
ELECTRICAL DRAWINGS
E0.1 SCHEDULES AND DETAILS
E1.1 LIGHTING AND POWER PLAN
E3.1 PANELS AND ONE LINE DIAGRAM

CODE SUMMARY

CHAPTER 3: USE AND OCCUPANCY CLASSIFICATION
302 - GROUP E - GYMNASIUM

CHAPTER 5: BUILDING AREA
SECTION 503 - BUILDING AREA A-3

AREA SCHEDULE	
Area	1510 SF

CHAPTER 6: TYPE OF CONSTRUCTION
TYPE V-B SPRINKLED - NFPA 13

CHAPTER 10: MEANS OF EGRESS
1004.1.1 - DESIGN OCCUPANT LOAD
1,507 SF / 50 = 31 OCCUPANTS
1005.1 - EGRESS WIDTH: 36"
1014.3 - COMMON PATH OF EGRESS TRAVEL = <75'
1015.1 - EXIT OR EXIT ACCESS DOORWAYS REQUIRED:
1 EXITS REQUIRED
1016.1 - EXIT ACCESS TRAVEL DISTANCE - 200' OK

PROJECT DIRECTORY

OWNER
DR. JARED BALLMER
1166 SUNSET DR
KAYSVILLE, UT 84037
801-698-7702

ARCHITECT
JZW ARCHITECTS
135 E. CENTER ST.
NORTH SALT LAKE, UT 84054
(801) 936-1343
FAX (801) 936-0180

CIVIL ENGINEER
REEVE AND ASSOCIATES
4155 S. HARRISON BLVD, SUITE 310
OGDEN, UTAH 84403
801-621-3100
FAX 801-621-2666

STRUCTURAL ENGINEER
4D ENGINEERS
483 WEST 30 NORTH
AMERICAN FORK, UTAH 84003
435-785-6083
RUSS@4DENGINERS.COM

ELECTRICAL ENGINEER
PROFESSIONAL ENGINEERING SERVICES
3440 WEST 7260 SOUTH
WEST JORDAN, UTAH 84084
(801) 601-1179
FAX (801) 601-1179

PROJECT INFORMATION

PROJECT #: 13047
PROJECT DATE OF ISSUE: AUGUST 7, 2013

THESE DRAWINGS ARE PART OF A SET OF CONSTRUCTION DOCUMENTS. THE CONSTRUCTION DOCUMENTS CONSIST OF ONE OR MORE OF THE FOLLOWING ELEMENTS:

CONSTRUCTION DRAWINGS
SPECIFICATIONS
STRUCTURAL CALCULATIONS
CONTRACT FORMS AND CONDITIONS
ADDENDA
MODIFICATIONS AND REVISIONS

CONTRACTORS, SUBCONTRACTORS, AND OTHERS WHO PROVIDE LABOR AND/OR MATERIALS REFERENCING THESE DRAWINGS ARE RESPONSIBLE FOR OBTAINING AND REVIEWING ALL CURRENT CONSTRUCTION DOCUMENTS.

CONTRACTORS, SUBCONTRACTORS, AND OTHERS ARE TO REPORT ANY DISCREPANCIES OR ERRORS TO PRW ARCHITECTURE, INC. IMMEDIATELY. ANY CHANGES TO THE PROJECT WILL BE VERIFIED WITH THE OWNER BY THE ARCHITECT AND REVISIONS WILL BE ISSUED BY ARCHITECT. CONTRACTORS ARE NOT TO MAKE ALTERATIONS OF ANY KIND WITHOUT THE PRIOR WRITTEN CONSENT OF ARCHITECT. DISCREPANCIES NOT REPORTED IMMEDIATELY ARE RESPONSIBILITY OF CONTRACTOR.

CONTRACTORS SHALL NOT SCALE FROM DRAWINGS. DIMENSIONS ARE PROVIDED TO ALLOW FOR ACCURATE CONSTRUCTION OF BUILDING. QUESTIONS ARISING FROM DIMENSIONS SHOULD BE RESOLVED BY CONTACTING ARCHITECT.

DESIGN CRITERIA

APPLICABLE CODE:
2012 INTERNATIONAL BUILDING CODE (I.B.C.)
2012 INTERNATIONAL MECHANICAL CODE
2012 INTERNATIONAL PLUMBING CODE
2012 INTERNATIONAL FIRE CODE
2012 INTERNATIONAL ENERGY CONSERVATION CODE
2011 NATIONAL ELECTRIC CODE

ACCESSIBILITY
I.B.C. A.N.S.I. 117.1 - 2009

REVISIONS:

ISSUE DATE:

AUGUST 7, 2013

PROJECT NUMBER

13047

JZW
ARCHITECTS

DOOR SCHEDULE

DOOR #	SIZE	TYPE	THICKNESS	DOOR FINISH	FRAME	FRAME FINISH	REMARKS
1	6'-0" X 6'-8"	WOOD CLAD	1 3/4"	PAINT	WOOD	PAINT	(2) 3'-0" DOORS (PAIR)

WINDOW SCHEDULE

WINDOW	WIDTH	HEIGHT	TYPE	HEAD HEIGHT	REMARKS
A	3'-0"	4'-0"	SLIDER	6'-8"	

GENERAL NOTES

- (A) SEE GENERAL NOTES ON SHEET T1.2 FOR ADDITIONAL REQUIREMENTS.
- (B) DIMENSIONS TO DOORS AND WINDOWS ARE TO CENTER OF FRAMED OPENING UNLESS NOTED OTHERWISE.
- (C) SEE STRUCTURAL DRAWINGS AND CALCULATIONS FOR ALL STRUCTURAL REQUIREMENTS, INCLUDING FOUNDATION WALL SPECIFICATIONS, AND SHEARWALL AND HOLDDOWN REQUIREMENTS.
- (D) PROVIDE SOUND BATT INSULATION IN ALL WALLS AROUND BATHROOMS.
- (E) COORDINATE ALL WINDOW HEAD HEIGHTS AND SIZES WITH ELEVATIONS AND WINDOW SCHEDULE.

KEYED NOTES

- ① GAF-ELK PREMIUM SHINGLES - 40 YEAR ARCHITECTURAL GRADE WITH UL LISTED WIND RESISTANCE AND CLASS "A" FIRE RATING OVER 30# FELT. PROVIDE ICE AND WATER SHIELD AT EACH VALLEY (4'-0" EACH SIDE AND 4'-0" AT ROOF PERIMETER)
- ② PRE-FINISHED RAIN GUTTERS WITH DOWN SPOUTS, CONNECT TO STORM DRAIN SYSTEM
- ③ GYPSUM BOARD CEILING
- ④ TURTLE VENTS, PROVIDE MIN. 4 SF AT RIDGE AND 4 SF AT SOFFIT
- ⑤ GAS FIRED UNIT HEATER - 45,000 BTU - CEILING HUNG WITH ALL MOUNTING HARDWARE - EXHAUST AN COMBUSTION AIR PER MANUFACTURES RECOMMENDATION - INSTALL CLEARANCES PER MANUFACTURERS SPECIFICATIONS.

PROJECT NUMBER

13047

ISSUE DATE:

AUGUST 7, 2013

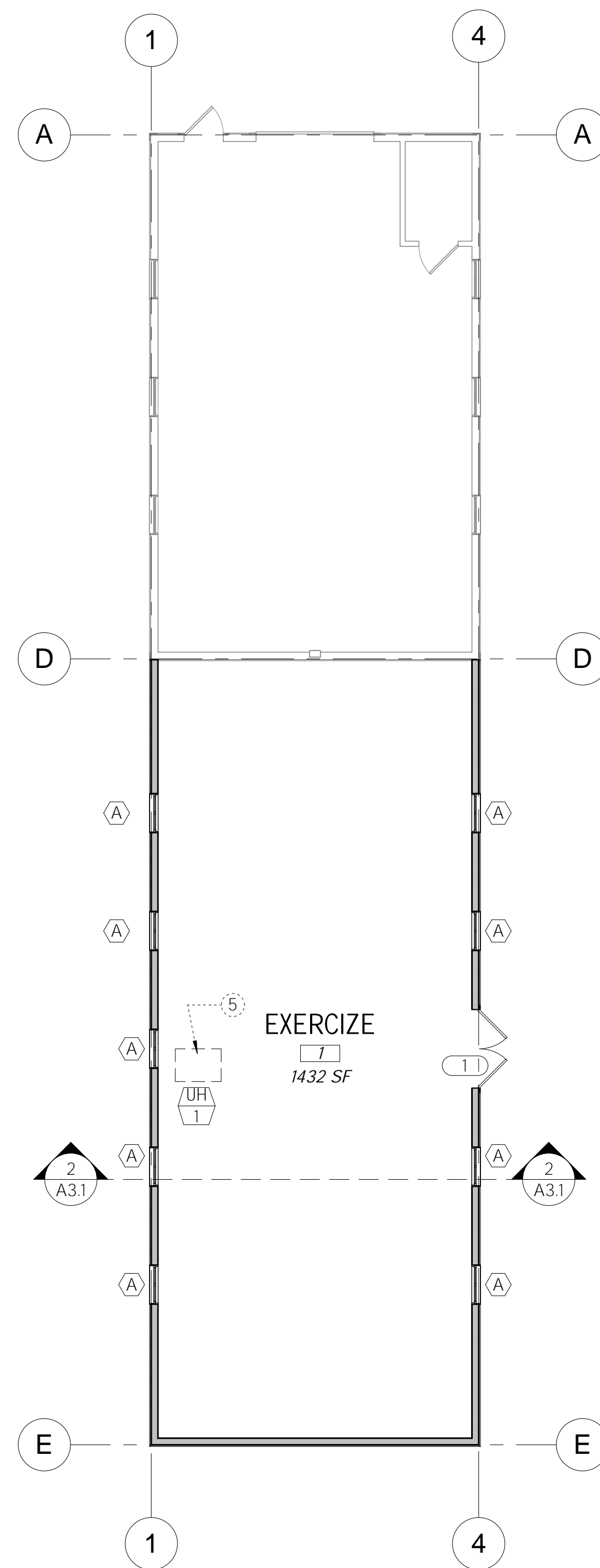
REVISIONS:

No. Date

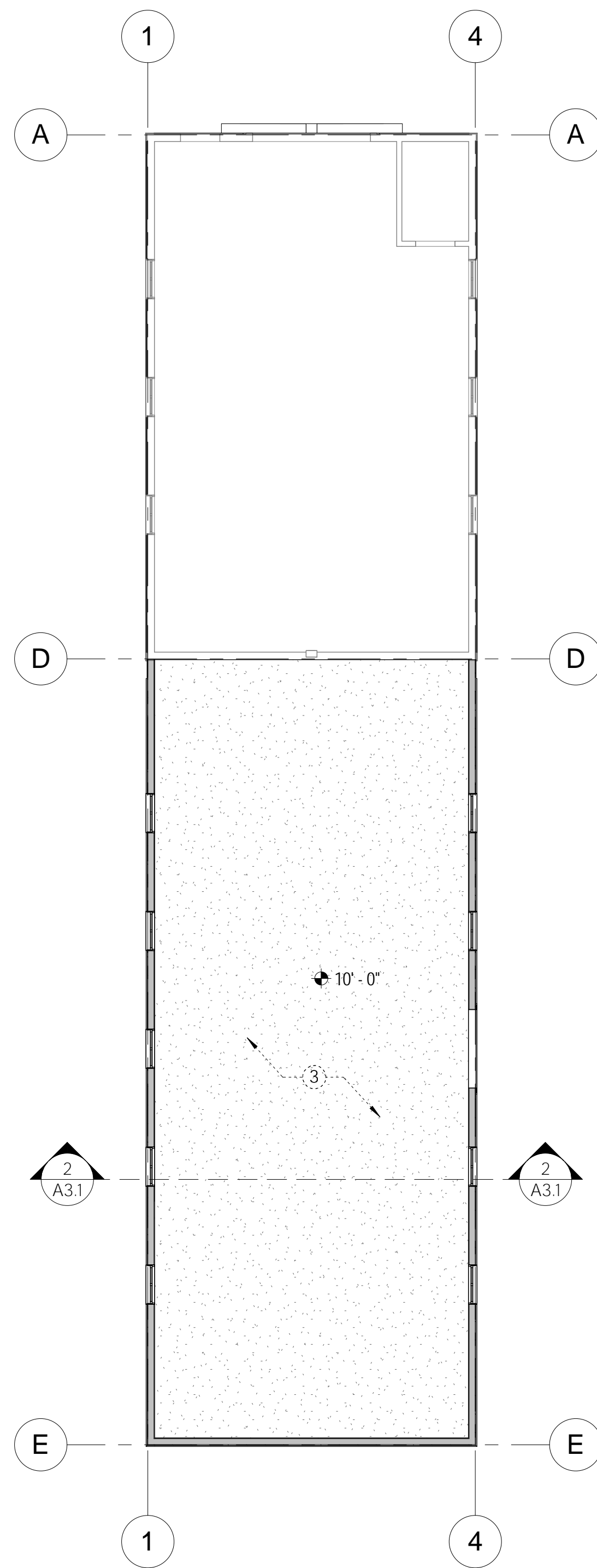
**GREEN VALLEY ACADEMY STORAGE
BUILDING EXTENSION**
9091 EAST 100 SOUTH WEBER
COUNTY, UTAH

FLOOR PLANS

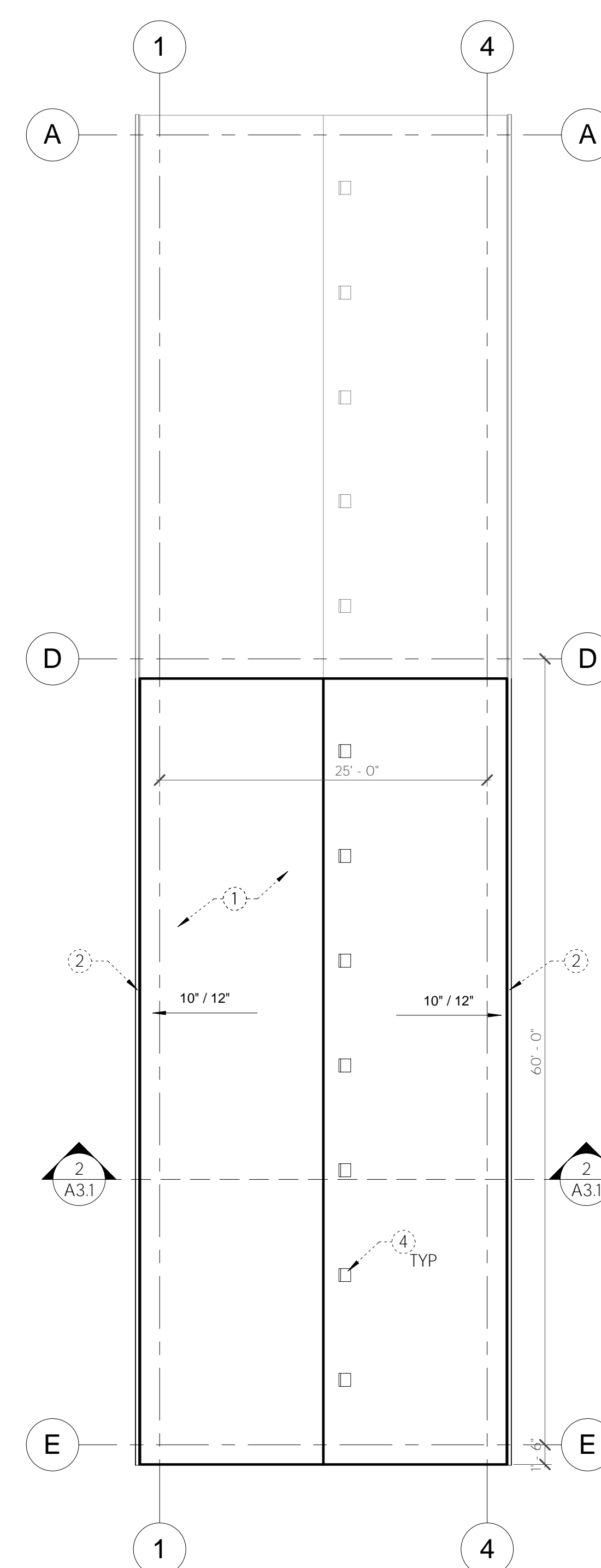
A1.1



1
A1.1
FLOOR PLAN
1/8" = 1'-0"



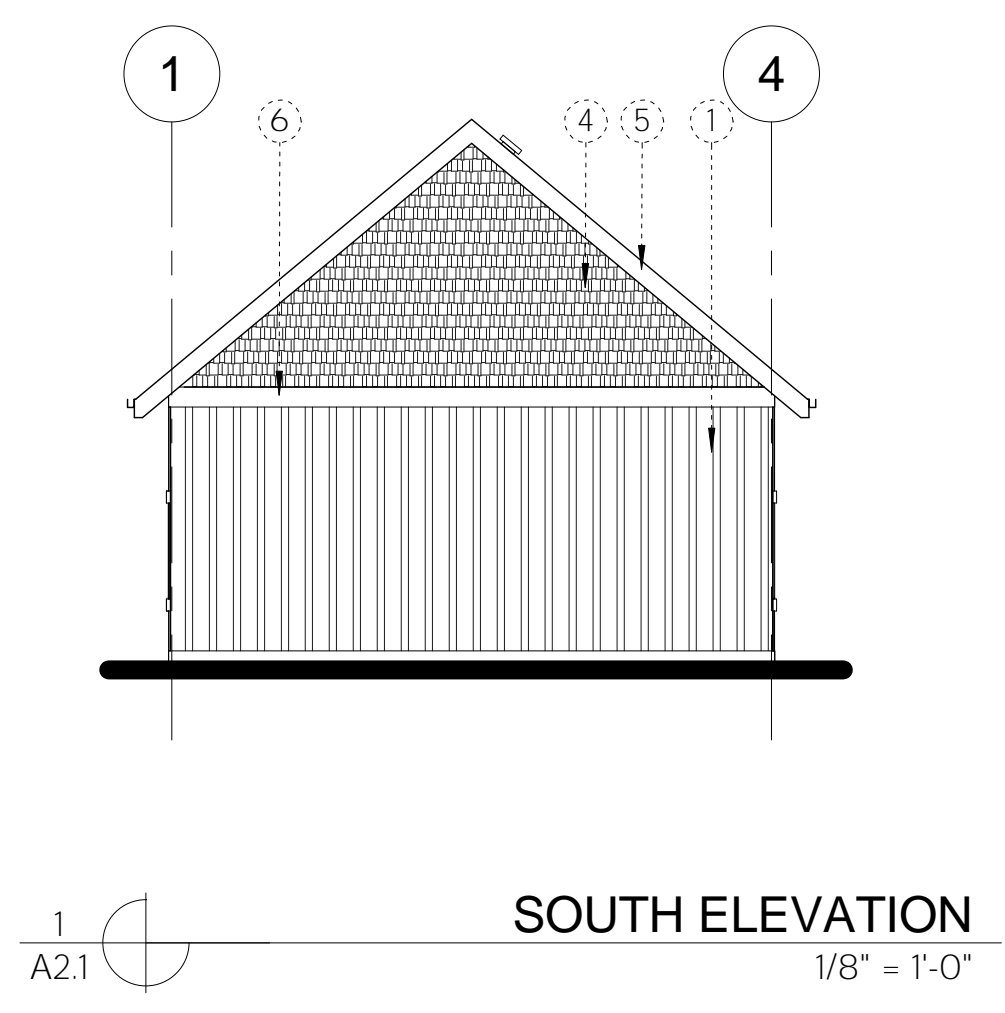
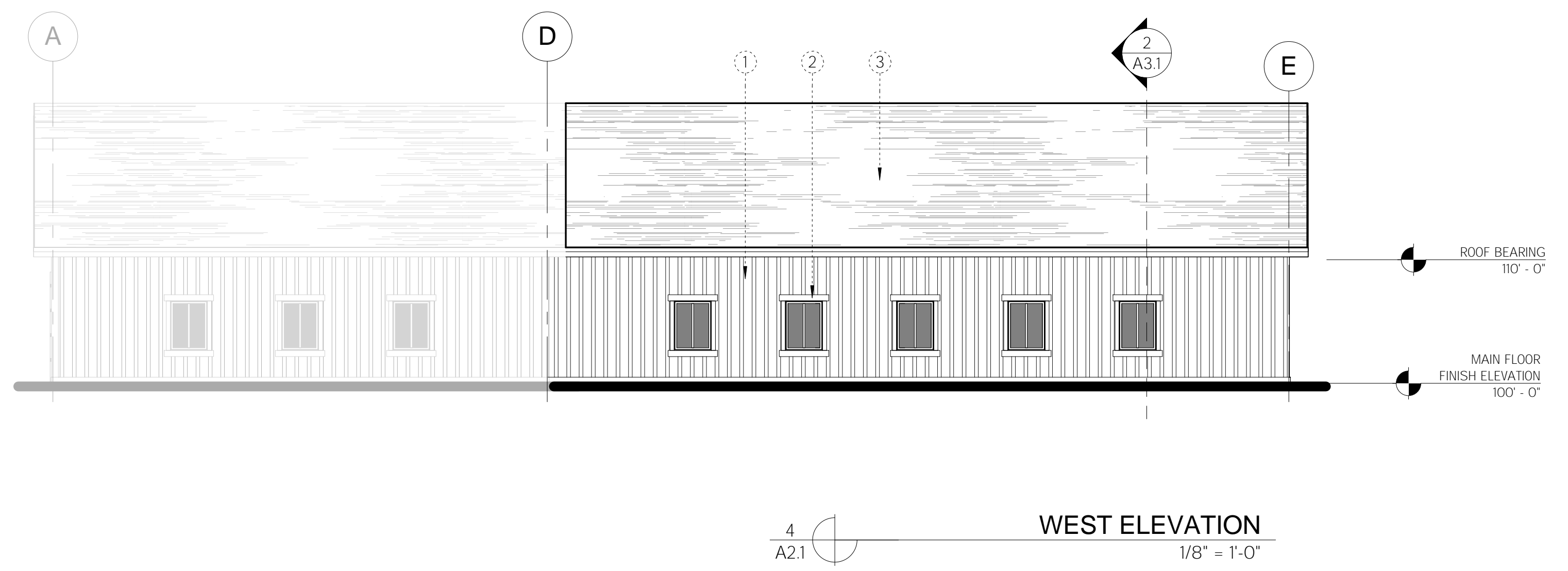
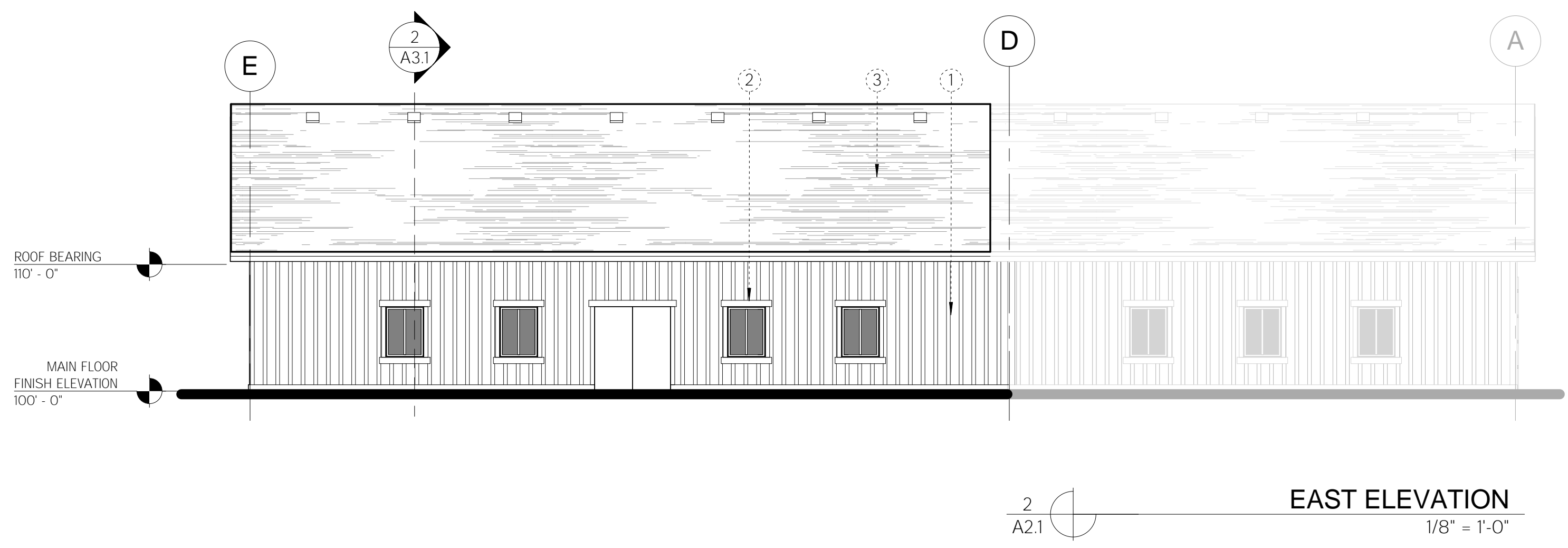
2
A1.1
REFLECTED CEILING PLAN
1/8" = 1'-0"



3
A1.1
ROOF PLAN
1/8" = 1'-0"

KEYED NOTES

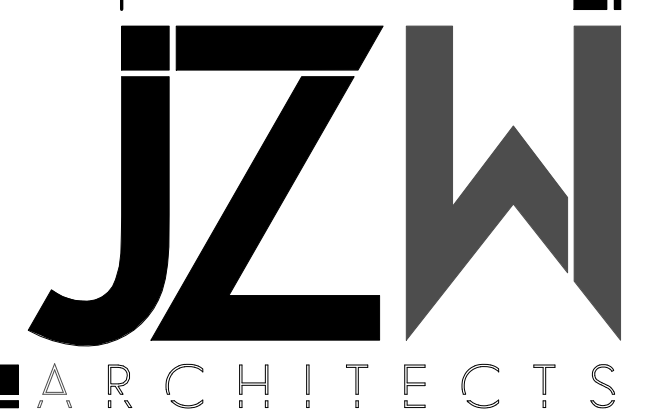
- 1 HARDIE BOARD - BOARD AND BATT SIDING - CEDARMILL - PAINT COLOR BY OWNER
- 2 HARDIE TRIM AROUND WINDOWS AND DOORS - 6" HORIZONTAL - 4" VERTICAL - PAINT COLOR BY OWNER
- 3 ASPHALT ROOFING - REFER TO ROOF PLAN
- 4 HARDIE BOARD - HARDIESHINGLE STAGGERED EDGE NOTCHED PANEL - PAINT COLOR BY OWNER
- 5 PREFINISHED METAL FASCIA AND SOFFIT - COLOR BY OWNER
- 6 HARDIE TRIM 10" - PAINT COLOR BY OWNER



**GREEN VALLEY ACADEMY STORAGE
 BUILDING EXTENSION**
 9091 EAST 100 SOUTH WEBER
 COUNTY, UTAH

ELEVATIONS

A2.1

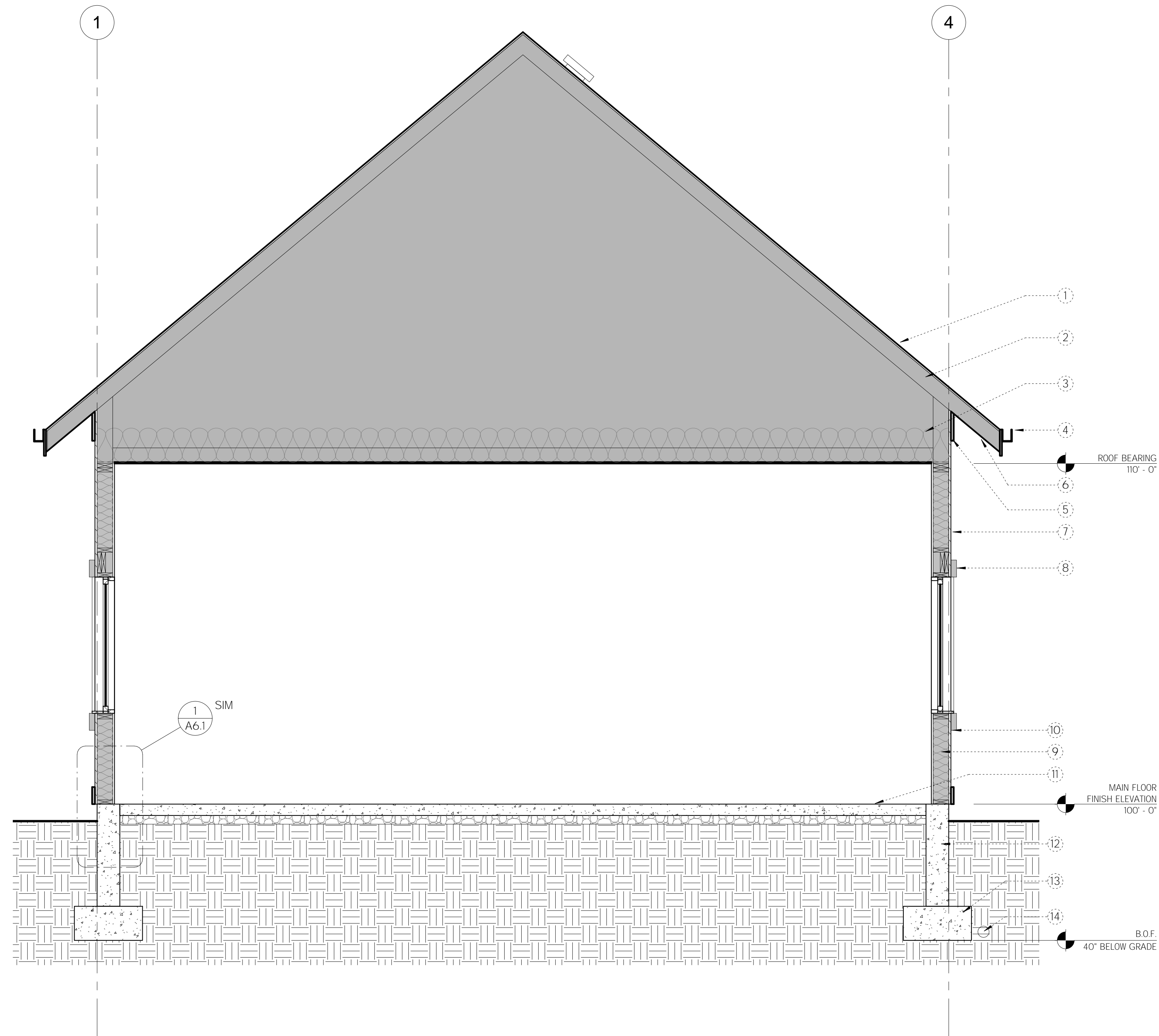


GENERAL NOTES

- (A) SEE GENERAL NOTES ON SHEET T1.2 FOR ADDITIONAL REQUIREMENTS.
- (B) REVIEW ALL STRUCTURAL PLANS AND SPECIFICATIONS AS WELL AS STRUCTURAL CALCULATIONS FOR ALL STRUCTURAL REQUIREMENTS.
- (C) REFER TO ELEVATION DRAWINGS FOR ALL EXTERIOR FINISHES.
- (D) ALL WINDOWS AND DOORS TO BE AS INDICATED IN FLOOR PLANS ELEVATIONS AND WINDOW/DOOR SCHEDULES.
- (E) ALL INSULATION, VAPOR BARRIERS, BUILDING PAPER, ETC... AS INDICATED IN GENERAL NOTES.
- (F) ALL EXTERIOR MATERIALS TO BE AS INDICATED ON ELEVATION DRAWINGS.

KEYED NOTES

- 1 ASPHALT SHINGLES - REFER TO ROOF PLAN
- 2 ROOF TRUSSES - REFER TO STRUCTURAL
- 3 R-40 ATTIC INSULATION
- 4 PRE-FINISHED RAIN GUTTERS WITH DOWN SPOUTS, CONNECT TO STORM DRAIN SYSTEM
- 5 HARDIE TRIM 10" - PAINT COLOR BY OWNER
- 6 PREFINISHED METAL FASCIA AND SOFFIT - COLOR BY OWNER
- 7 HARDIE BOARD - BOARD AND BATT SIDING - CEDARMILL - PAINT COLOR BY OWNER
- 8 HARDIE TRIM AROUND WINDOWS AND DOORS - 6" HORIZONTAL - 4" VERTICAL - PAINT COLOR BY OWNER
- 9 R-19 WALL INSULATION
- 10 BUILDING WRAP
- 11 CONCRETE SLAB ON GRADE - REFER TO STRUCTURAL FOR REINFORCING REQUIREMENTS - REFER TO GEOTECHNICAL FOR GROUND PREPARATION AND VAPOR BARRIER REQUIREMENTS
- 12 CONCRETE FOUNDATION - REFER TO STRUCTURAL
- 13 CONCRETE FOOTING - REFER TO STRUCTURAL
- 14 PERIMETER DRAIN AS REQUIRED BY GEOTECHNICAL REPORT

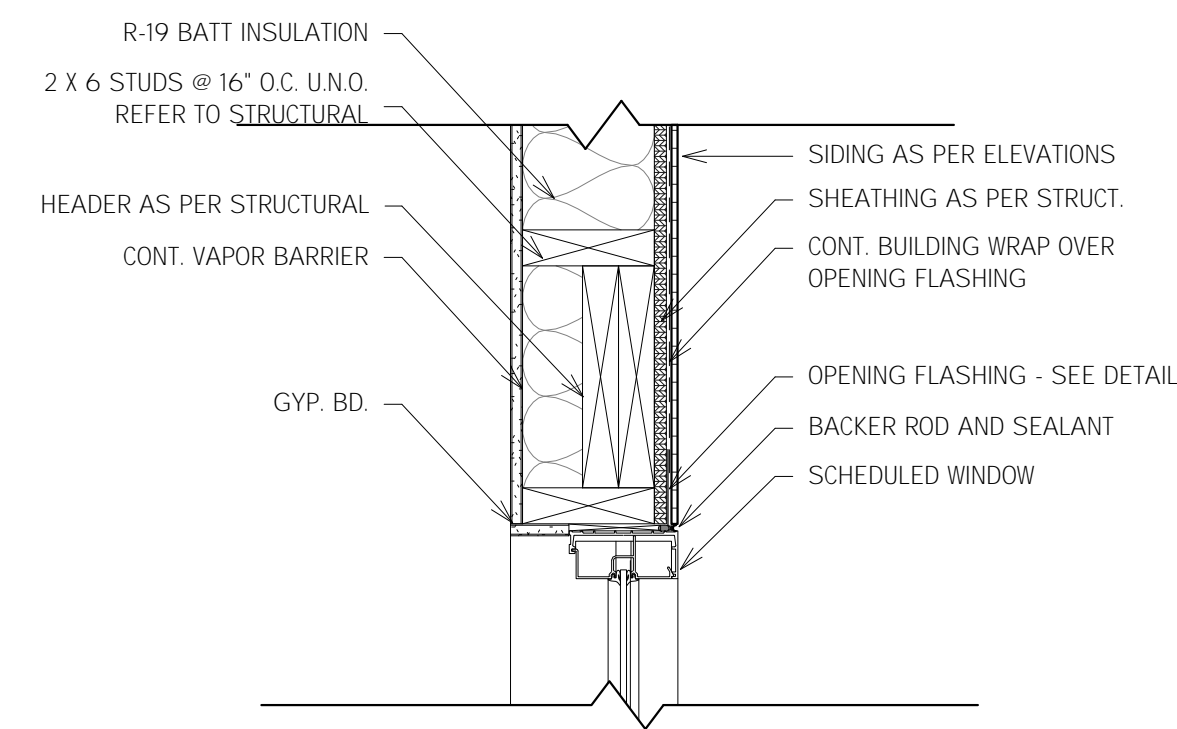


2 BUILDING SECTION
A3.1 1/2" = 1'-0"

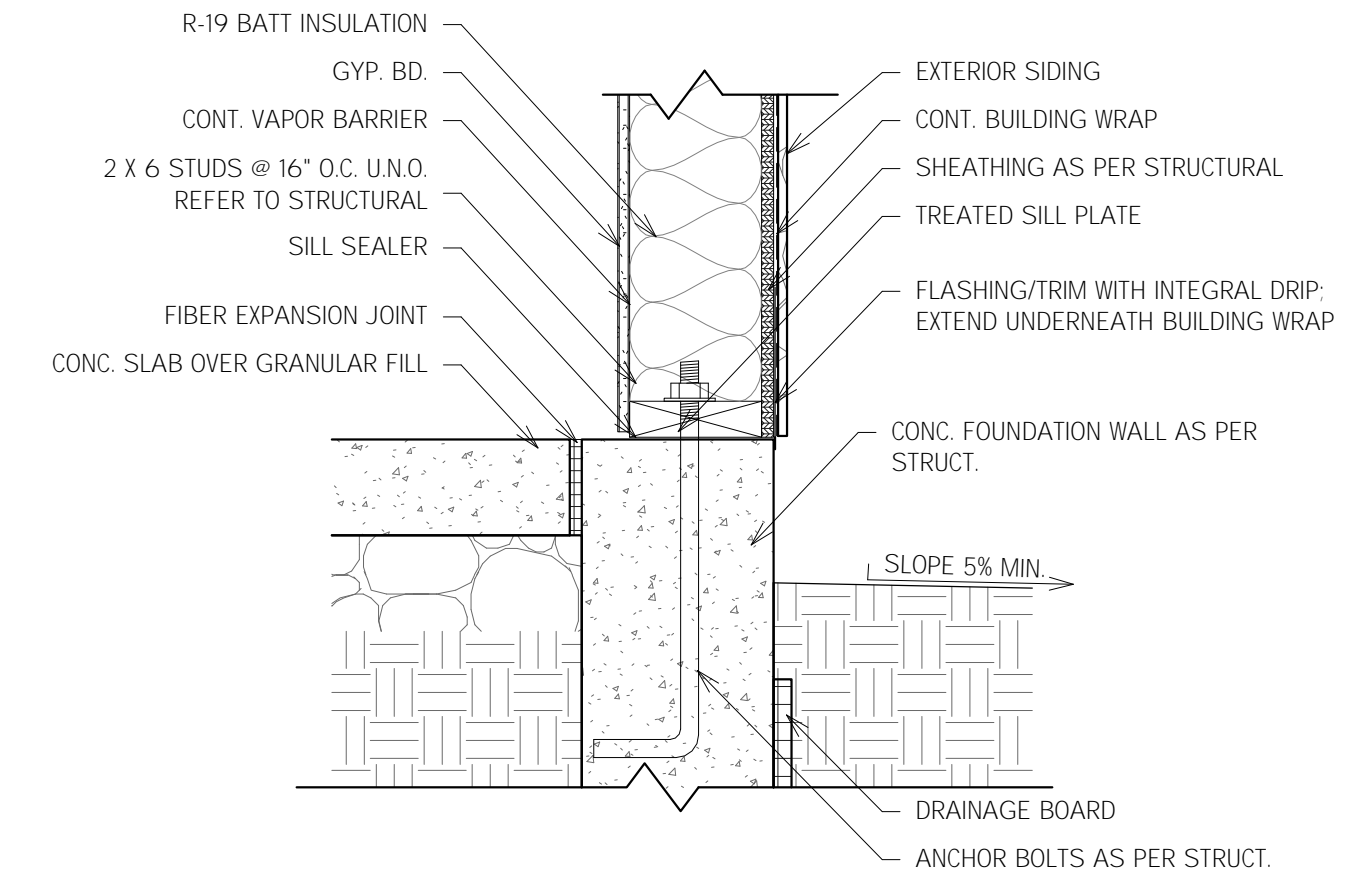
**GREEN VALLEY ACADEMY STORAGE
BUILDING EXTENSION**
9091 EAST 100 SOUTH WEBER
COUNTY, UTAH

**BUILDING
SECTION**

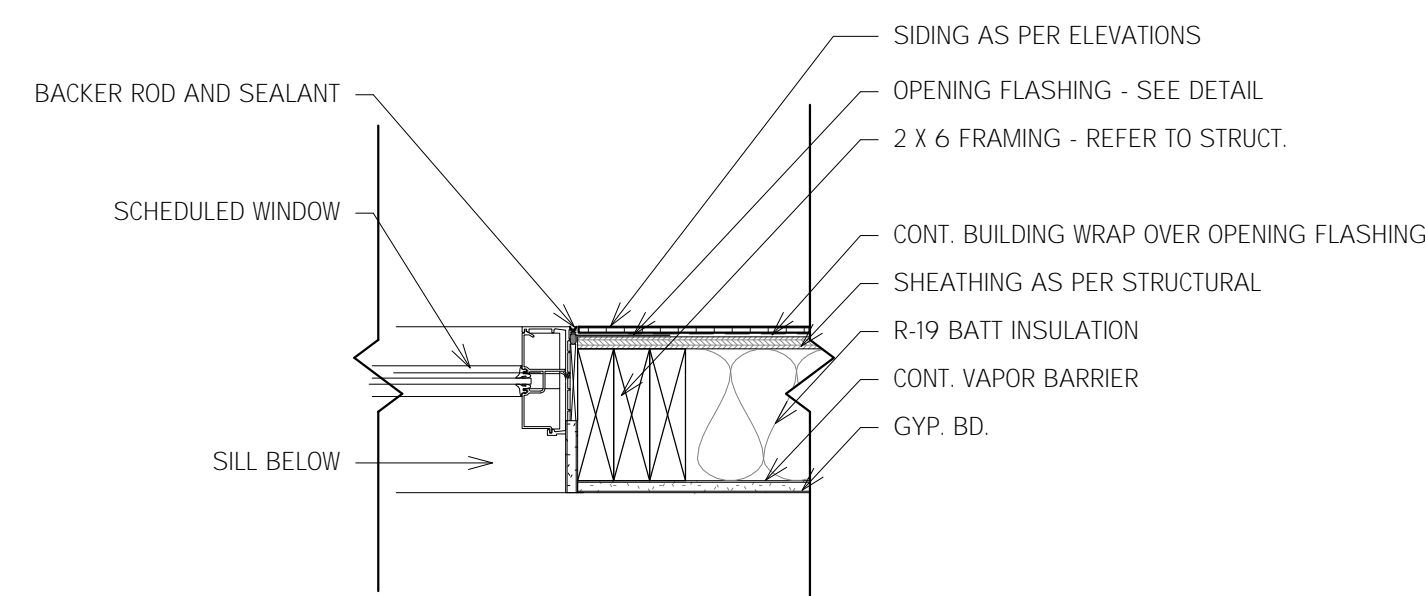
A3.1



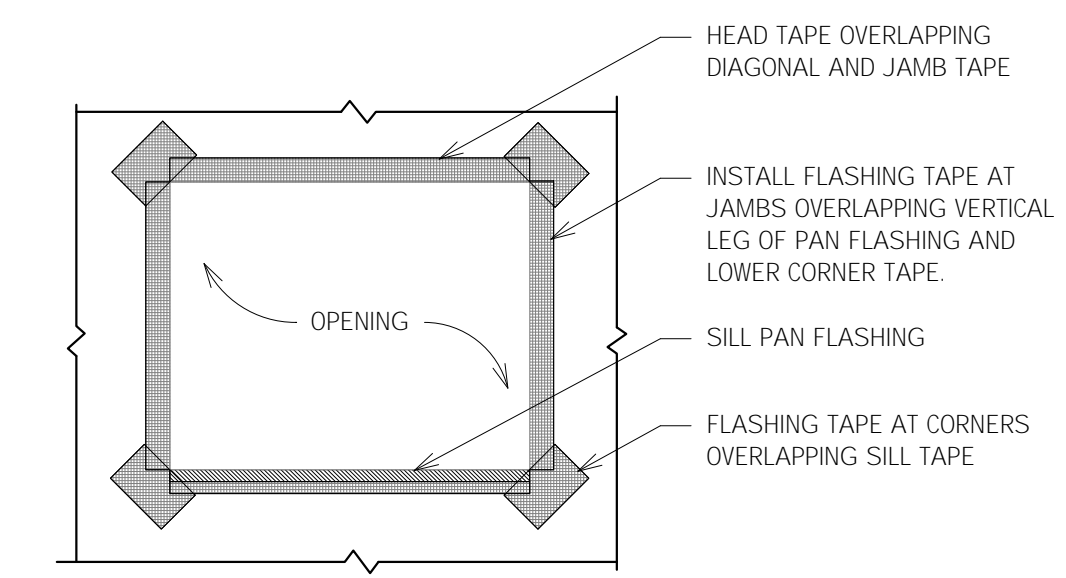
3 WINDOW HEAD - SIDING 1 1/2" = 1'-0"



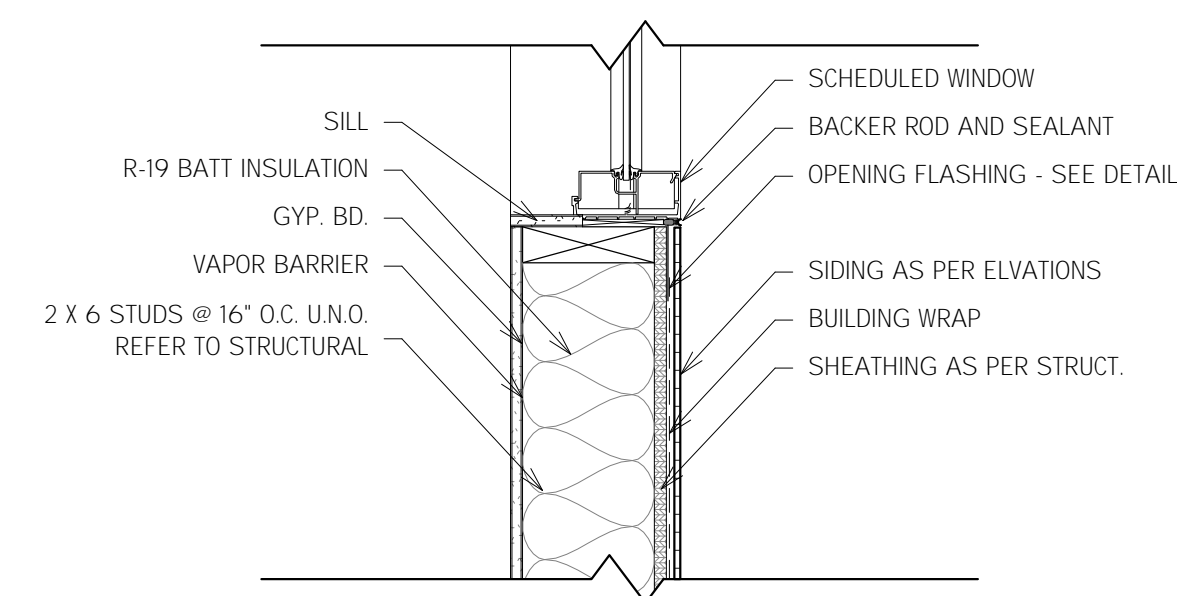
1 TOP OF FOUNDATION - STONE 1 1/2" = 1'-0"



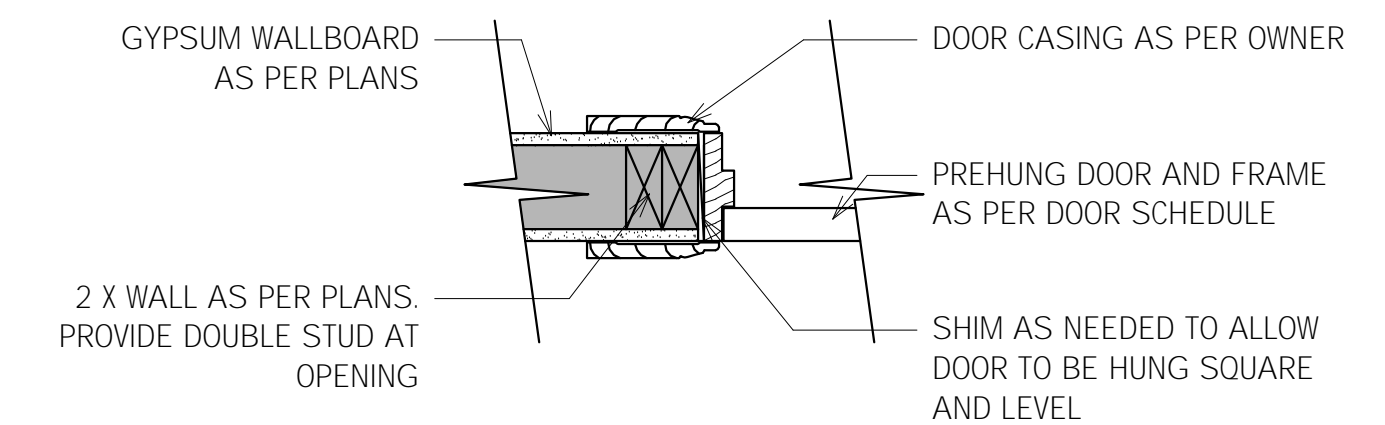
6 WINDOW JAMB - SIDING 1 1/2" = 1'-0"



4 FLASHING DETAIL 3/8" = 1'-0"



9 WINDOW SILL - SIDING 1 1/2" = 1'-0"

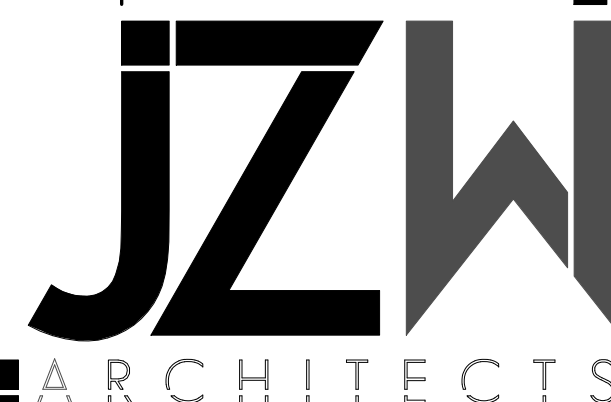


7 INTERIOR DOOR JAMB AND NON-BEARING HEAD 1 1/2" = 1'-0"

GREEN VALLEY ACADEMY STORAGE BUILDING EXTENSION 9091 EAST 100 SOUTH WEBER COUNTY, UTAH

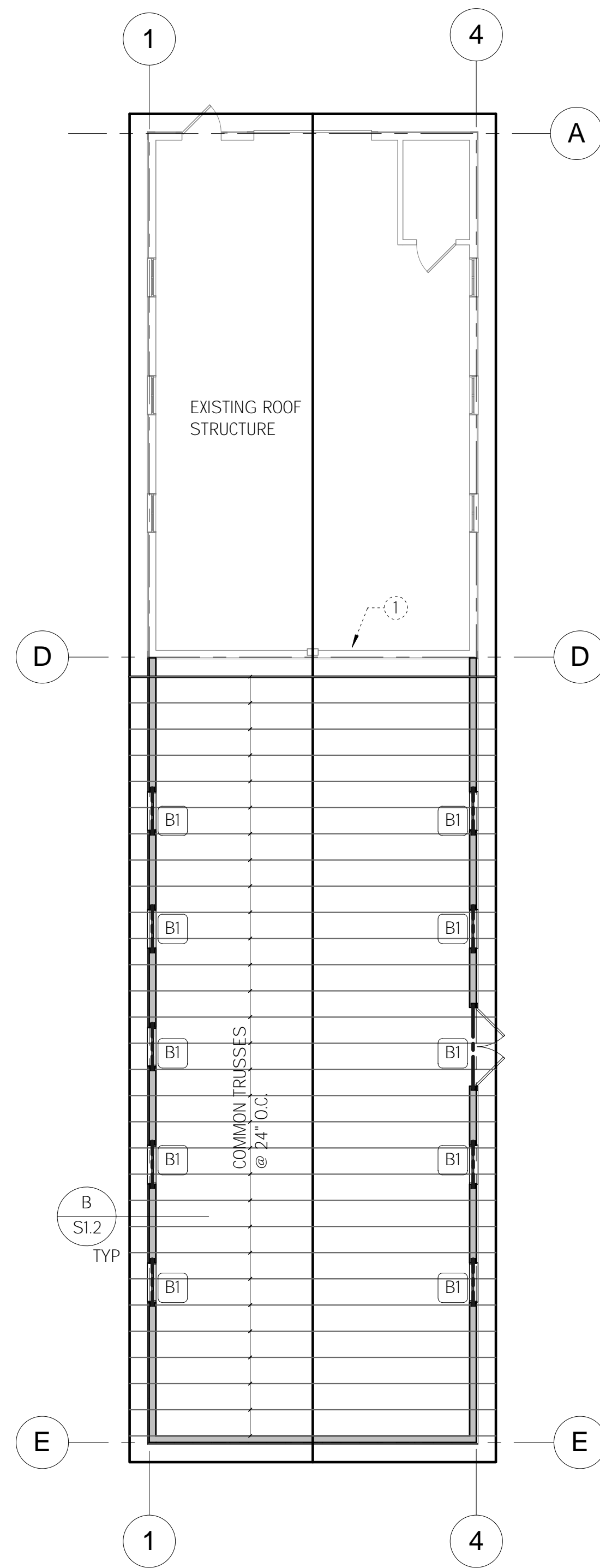
DETAILS

A6.1

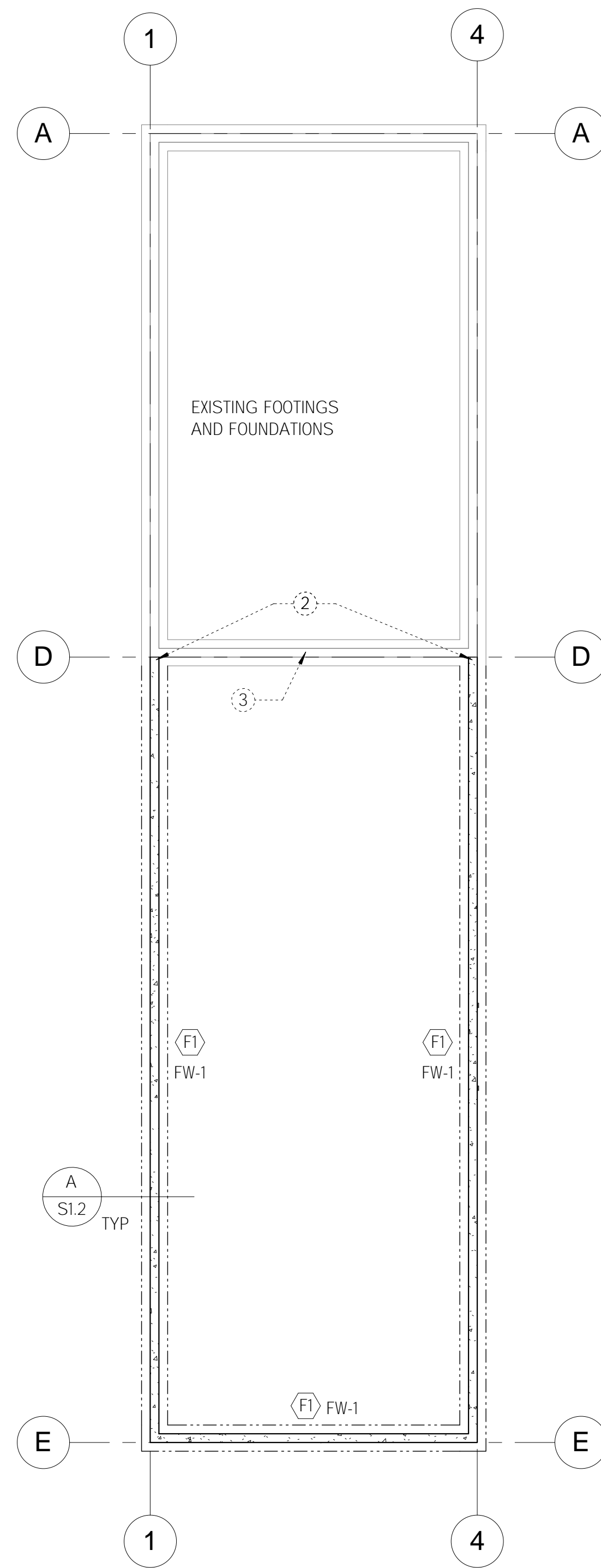


KEYED NOTES

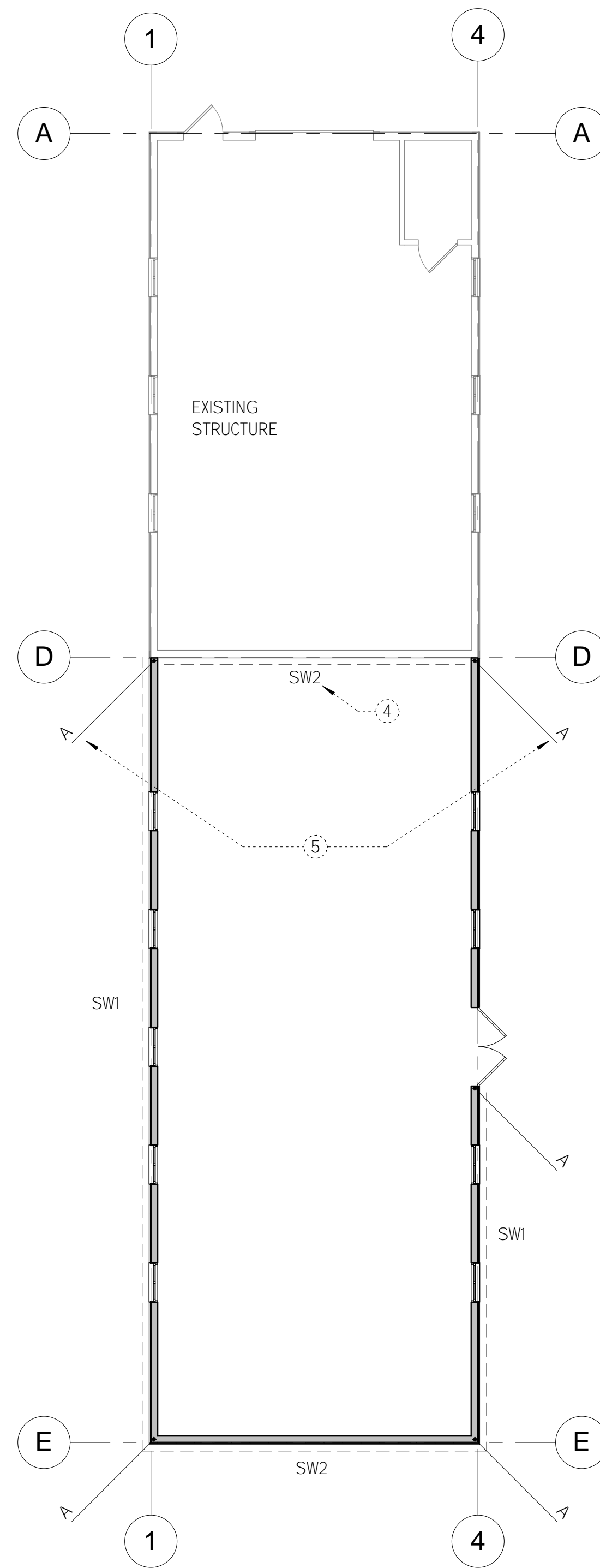
- 1 TIE NEW ROOF SHEATHING INTO TOP OF SW2
- 2 EPOXY EMBED HORIZONTAL TOOTING AND FOUNDATION REBAR 6" INTO EXISTING CONCRETE.
- 3 PROVIDE 1/2" DIAM. X 10" A-BOLTS @ 32" O.C. THIS WALL W/ 3"X3" WASHERS. UPGRADE EXISTING AS NEEDED.
- 4 UPGRADE EXISTING WALL TO MEET SW2 REQUIREMENTS
- 5 THESE "A" HOLDDOWNS MAY BE EXISTING. FIELD VERIFY.



1
S1.1
ROOF FRAMING PLAN
1/8" = 1'-0"



2
S1.1
FOOTING AND FOUNDATION PLAN
1/8" = 1'-0"



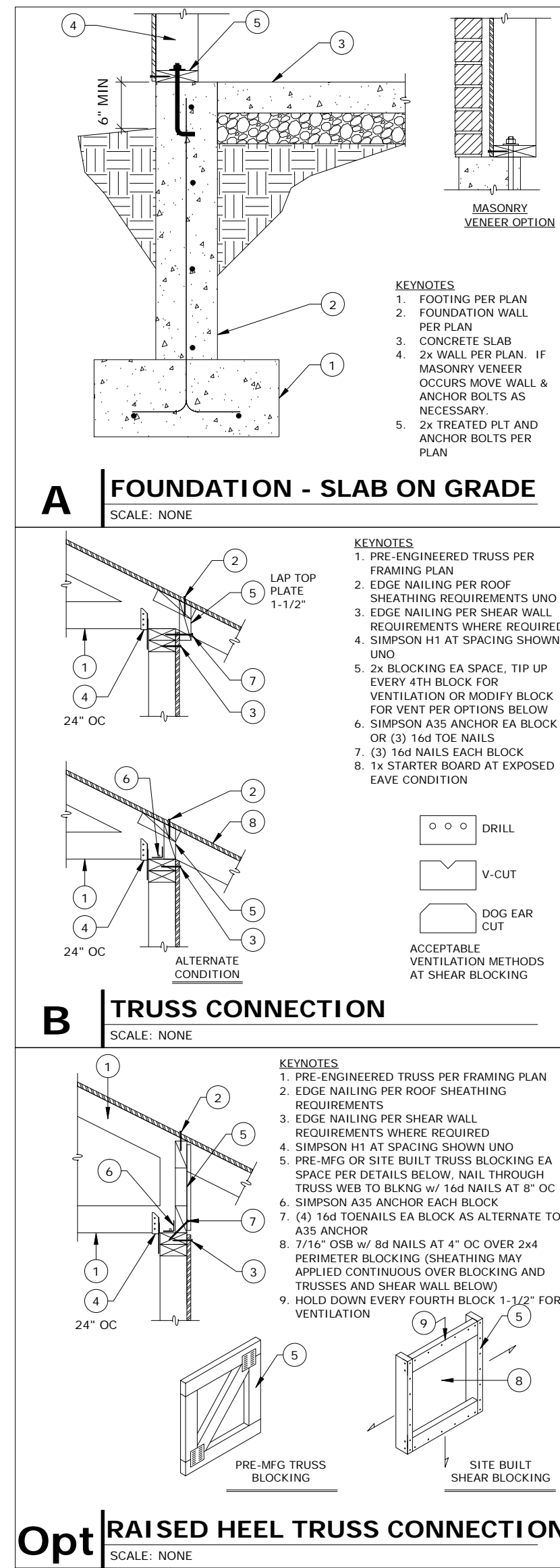
3
S1.1
SHEARWALL AND HOLDDOWN DIAGRAM
1/8" = 1'-0"

- B1 (2) 2 X 10 DF #2
- F1 20" X 10" X CONT. W/ (2) #4
- FW-1 8" X 4'-0" (MAX) FOUNDATION W/ #4 @ 16" VERT. AND 12" HORZ.

GREEN VALLEY ACADEMY STORAGE
BUILDING EXTENSION
9091 EAST 100 SOUTH WEBER
COUNTY, UTAH

STRUCTURAL
PLANS

S1.1



STRUCTURAL DESIGN CRITERIA

GOVERNING CODE: 2012 IRC & IBC

SOIL
BEARING PRESSURE: 1,500 PSF (PRESUMPTIVE)

WIND
3 SECOND GUST: 90 MPH
EXPOSURE: C
IMPORTANCE FACTOR: 1.0

SEISMIC
DESIGN CATEGORY: D2
IMPORTANCE FACTOR: 1.0

ROOF LOADS
DEAD LOAD: 20 PSF
SNOW LOAD: 30 PSF

SHEAR WALL SCHEDULE

MARK	SHEATHING	SHEATH BOTH SIDES	NAILS	EDGE SPACING	NOTES
SW1	7/16" OSB	NO	8d	6" OC	1-3
SW2	7/16" OSB	NO	8d	4" OC	1-3

NOTES:

1. USE COMMON OR GALVANIZED BOX NAILS. FIELD NAIL AT 12" OC
2. BLOCK ALL PANEL EDGES
3. PROVIDE 3"x3"x0.229" PLATE WASHERS WITH DIAGONAL SLOTTED HOLE AND STANDARD CUT WASHER TO BE PLACED BETWEEN THE 3"x3"x0.229" WASHER AND NUT ON ANCHOR BOLTS (TYPICAL)

HOLDOWN & STRAP SCHEDULE

MARK	ANCHOR	NOTES (1,2)
A	STHD10	3

NOTES:

1. ALL ANCHORS ARE SIMPSON STRONG TIE OR EQUIVALENT.
2. INSTALL PER MANUFACTURER'S SPECIFICATIONS. USE RIM JOIST MODELS (RJ) WHEN INSTALLED AT RIMBOARD/JOIST.
3. RETROFIT OPTION:
HDU4 - PROVIDE 5/8" DIA A307 ATR EPOXIED 12" INTO CONCRETE.

ANCHOR BOLTS AND SILL PLATE

1/2" DIAMETER x 10" LONG ANCHOR BOLTS EMBEDDED 7" MINIMUM AT 32" OC W/ 2x TREATED SILL PLATE, TYPICAL EXCEPT WHEN SPECIFICALLY NOTED ON FOUNDATION PLAN.

ALL ANCHOR BOLTS FOR SHEAR WALLS REQUIRE 3"x3"x0.229" PLATE WASHERS WITH DIAGONAL SLOTTED HOLE. PLACE EDGE OF WASHER MAX 1/2" FROM INSIDE FACE OF WALL SHEATHING. PROVIDE STANDARD CUT WASHER BETWEEN 3"x3"x0.229" WASHER AND NUT.

FOUNDATION FIELD CHANGES

ANY CHANGES TO FOOTING AND FOUNDATION HEIGHTS AND STEPS SHOWN ON THE PLAN REQUIRE ENGINEER'S APPROVAL PRIOR TO POURING.

ALLOW ENGINEER ONE WEEK FOR REDESIGN

WALL FRAMING

- EXTERIOR WALLS TO BE 2x6 DF STUDS AT 16"
- USE THREE STUDS MINIMUM AT ALL CORNERS UNLESS NOTED OTHERWISE
- PROVIDE 1T1K AT ENDS OF ALL BEAMS UNLESS NOTED OTHERWISE
- T = TRIMMER (JACK) STUD SUPPORTING HEADER OR BEAM
- K = FULL HEIGHT KING STUD FACE NAILED TO TRIMMERS AND HEADER OR BEAM
- I.E. 2T2K = 2 TRIMMERS, 2 KING STUDS W/ WIDTH TO MATCH ADJACENT WALL FRAMING UNLESS NOTED OTHERWISE

ROOF SHEATHING

- 7/16" APA RATED OSB SHEATHING NAILED W/ 8d COMMON AT 6" OC AT PANEL EDGES, OVER SHEAR WALLS AND BLOCKING AND 6" OC IN THE FIELD, PROVIDE GAPS BETWEEN SHTS PER MANU REQ.

HVAC EQUIPMENT SCHEDULE	EQUIPMENT DATA										STARTER DATA				DISCONNECT		CONTROLS							
	EQUIPMENT NO.	HORSEPOWER	VOLTAGE	PHASE	NO. OF CONDUCTORS	AMPS	SIZE OF CONDUIT	SIZE OF CONDUIT	BREAKER	NEMA SIZE	NO. OF SPEEDS	CONTROL VOLTAGE	SELECTOR SWITCH	PUSHBUTTON	PILLOT LAMP	N.O. CONTACTS	N.C. CONTACTS	SIZE	WP	COMBINATION W/STARTER	FUSED AT	INTERLOCK WITH	CONTROL	FINAL CONNECTION BY
UNIT HEATER	UH-1	37W	120	1	2	1.7	12		20	FE							20			NF			⊖	ELECT

OWN-OWNER
 ELEC-ELECTRICAL CONTRACTOR
 MAN.-----MANUAL STARTER
 F.E.-----FURNISHED W/EQUIPMENT
 N/R-----NOT REQUIRED
 NMC-----NON-METALLIC SHEATHED CABLE
 PS-POSITION SWITCH (OFF PUMP, HIGH VENT, LOW VENT, HIGH COOL, LOW COOL)
 H.O.A.-----HAND-OFF-AUTOMATIC
 O.O.-----ON - OFF
 O.A.-----OFF - AUTOMATIC
 STA-----START
 R.-----RUN
 ST.-----STOP
 PNL.-----CONTROL PANEL & THERMOSTAT
 LTG.-----SWITCH W/ LIGHTS

LIGHTING FIXTURE SCHEDULE

SYMBOL	CATALOG No. & DESCRIPTION	MOUNTING	LAMPS
(E)	NORA LIGHTING NHIC6-LEDAT-30-W-W 6" LED DOWNLIGHT U.L. LISTED FOR THRU WIRING AND WET LABEL W/WHITE TRIM AND WHITE BAFFLE.	RECESSED	FURNISHED W/ FIXTURE
(EX)	NORA LIGHTING NHIC6-LEDAT-30-W-W-EM 6" LED DOWNLIGHT U.L. LISTED FOR THRU WIRING AND WET LABEL W/WHITE TRIM, WHITE BAFFLE, BATTERY PACK & CHARGER.	RECESSED	FURNISHED W/ FIXTURE
(I)	DAYBRITE TT 232 120 1/2 EB 8FT FLUORESCENT STRIP 2 LAMPS WIDE	SURFACE	(4)F32T8/835
(IX)	DAYBRITE TT 232 120 1/2 EB E5 SAME AS "I" EXCEPT W/INTEGRAL BATTERY PACK AND CHARGER.	SURFACE	(4)F32T8/835
(X1)	McPHILBEN CXXL 3G W 6" LED EXIT SIGN W/INTEGRAL BATTERY PACK UNIVERSAL MOUNT AND GREEN LETTERS.	SURFACE	FURNISHED W/FIXTURE

ELECTRICAL SYMBOL SCHEDULE

SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES
—	1 CIRCUIT-2WIRE HOME RUN TO PANEL		
—	2 CIRCUIT-3 WIRE-COMMON NEUTRAL HOME		
—	3 CIRCUIT-4 WIRE-COMMON NEUTRAL HOME RUN		
—	CONDUIT RUN IN WALL OR CEILING		
—	CONDUIT RUN IN FLOOR OR GROUND		
—	CONDUIT UP		
—	CONDUIT DOWN		
○	CEILING LIGHT FIXTURE	CEILING	(1),(2)
⊖	WALL LIGHT FIXTURE	AS NOTED	
⊖	RECESSED INCANDESCENT OR HID. FIXTURE	CEILING	
⊖	FLUORESCENT LIGHT FIXTURE	AS NOTED	
⊖	FLUORESCENT EGRESS LIGHT	AS NOTED	UNSWITCHED (1),(2)
⊖	CEILING MOUNTED EXIT LIGHT	CEILING	(1),(2)
⊖	WALL MOUNTED EXIT LIGHT	AS NOTED	(1),(2),(4)
⊖	SINGLE POLE SWITCH	+42"	(3),(4)
⊖	THREE WAY SWITCH	+42"	(4)
⊖	SWITCH & PILOT LIGHT	+42"	
⊖	SINGLE POLE SWITCH	CEILING	
⊖	THERMAL OVERLOAD SWITCH & PILOT LIGHT	+42"	(4)
⊖	QUADRAPLEX OUTLET	+1'-4"	
⊖	ISOLATED GROUND QUADRAPLEX	+1'-4"	
⊖	ISOLATED GROUND DUPLEX OUTLET	+1'-4"	
A ⊖	DUPLEX RECEPTACLE MOUNTED ABOVE STANDARD HEIGHT	+4'-4"	(4)
GF ⊖	DUPLEX OUTLET W/GROUND FAULT INTERRUPTER	+1'-4"	
⊖	DUPLEX RECEPTACLE	+1'-4"	
⊖WP	WEATHERPROOF RECEPTACLE	+2'-0"	
⊖	TELEPHONE OUTLET	+1'-4"	STUB 3/4" CONDUIT ABOVE CEILING
⊖	TELEPHONE/DATA OUTLET	+1'-4"	STUB 3/4" CONDUIT ABOVE CEILING
⊖	DATA OUTLET	+1'-4"	STUB 3/4" CONDUIT ABOVE CEILING
⊖	JUNCTION BOX	AS NOTED	
⊖	MOTOR OUTLET	SUIT EQUIP.	
⊖	PANELBOARD	TOP @6'-6"	
⊖	TIME CLOCK	+5'-0"	SEE DETAIL
⊖	MAIN DISTRIBUTION PANEL		
⊖	DISCONNECT SWITCH ('F' FUSED)	+5'-0"	
⊖	MAGNETIC STARTER	+5'-0"	SIZE TO EQUIP.
⊖	MAGNETIC STARTER/DISC	+5'-0"	
⊖	TELEPHONE TERMINAL BOARD		
⊖	FLOOR OUTLET WITH POWER/DATA	FLOOR	SEE NOTE
⊖	PANELBOARD	TOP @6'-6"	
⊖	THERMOSTAT	+42"	(4)
123	ARCHITECTURAL ROOM NO.		
AB	EQUIPMENT NO. FOR HVAC EQUIPMENT		
A	LIGHT FIXTURE TYPE		SEE LIGHTING FIXTURE SCHEDULE
X—X—	PLUGMOLD MULTI-CIRCUIT	ABOVE COUNTER	SEE NOTE
⊖	FIRE ALARM MANUAL STATION	+4'-0"	
⊖	FIRE ALARM COMBINATION HORN/STROBE	6" BELOW CLG	
⊖	SMOKE DETECTOR	CEILING	
⊖	FIRE ALARM CONTROL PANEL	TOP AT +6'-0"	
⊖	FIRE ALARM MINI STROBE	6" BELOW CLG	

SYMBOL SCHEDULE NOTES

- SEE FIXTURE SCHEDULE
- PROVIDE JUNCTION BOX ADJACENT TO FIXTURE - PROVIDE WIRING TO FIXTURE
- SUPERSCRIPIT INDICATES FIXTURES CONTROLLED BY SWITCH
- MOUNTING HEIGHT IS TO BOTTOM OF BOX

PROJECT NUMBER
13024

ISSUE DATE:
JUNE 18, 2013

REVISIONS:

No. Date

FEJ Professional Engineering
 3440 West 7260 South
 West Jordan, Utah 84084
 Ph: (801) 601-1178 Fax: (801) 601-1179
 Email: pro.eng@comcast.net
THESE DOCUMENTS ARE THE PROPERTY OF FEJ ENGINEERING. NO USE OR REUSE OF THESE DOCUMENTS SHALL BE PERMITTED UNLESS AUTHORIZED IN WRITING BY PROFESSIONAL ENGINEERING SERVICES WITH APPROPRIATE COMPENSATION. COPYRIGHT © 2013

**GREEN VALLEY ACADEMY
STORAGE BUILDING**
 9091 E. 100 S.
 WEBER COUNTY, UTAH

**SCHEDULES
& DETAILS**

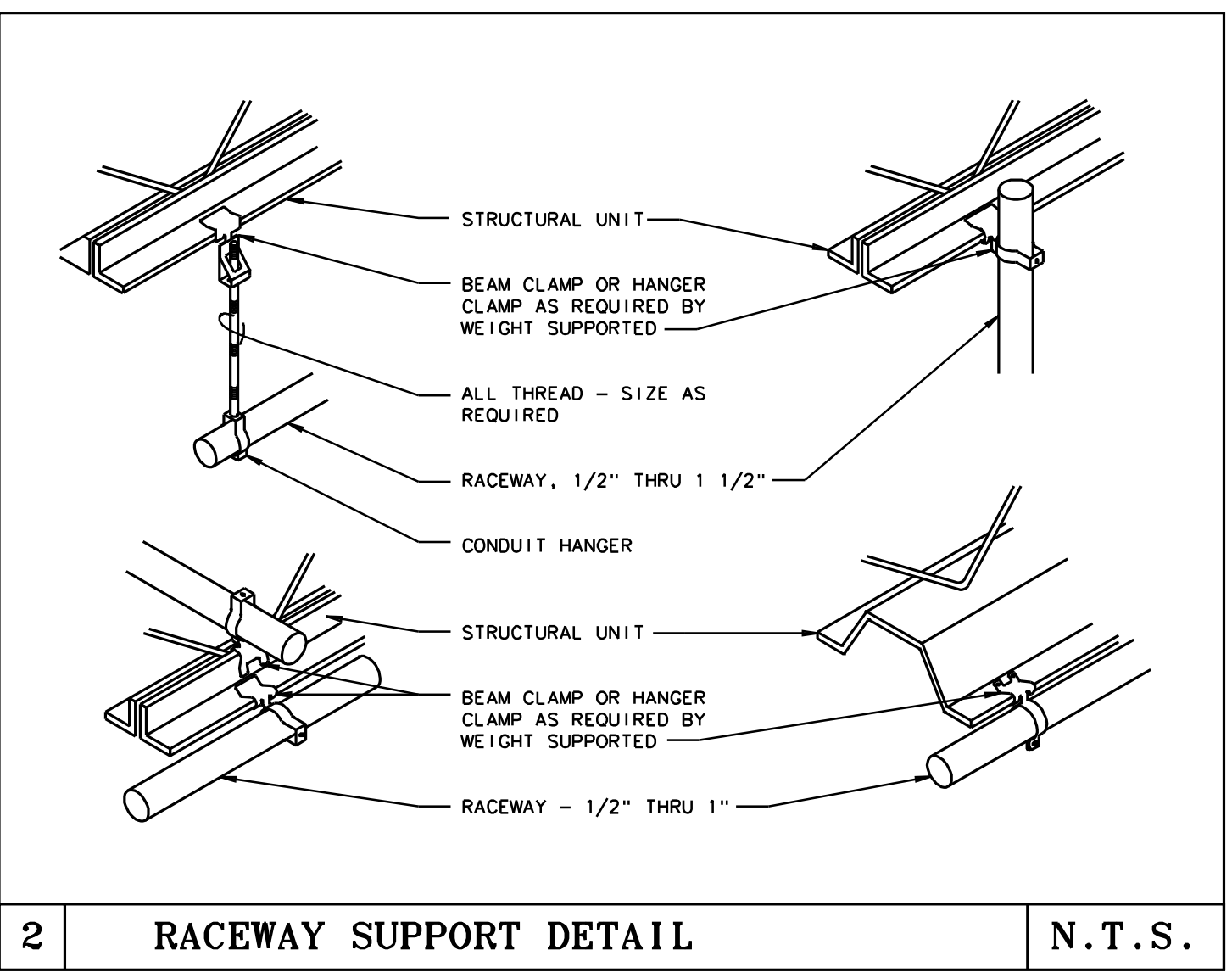
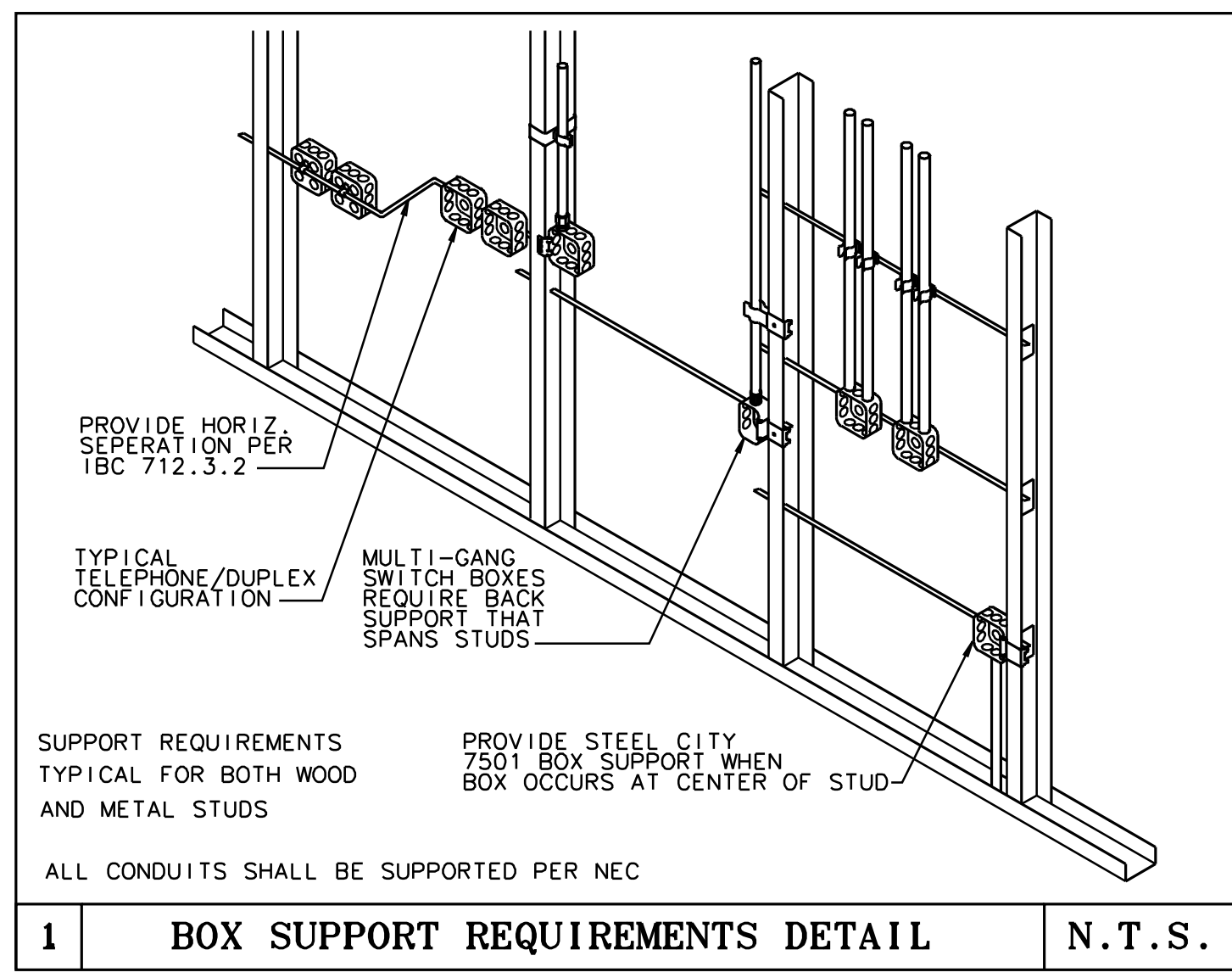
E0.1

REGISTERED PROFESSIONAL ENGINEER
 No. 164251
 GREGORY B. MENDENHALL
 STATE OF UTAH

JZW
ARCHITECTS

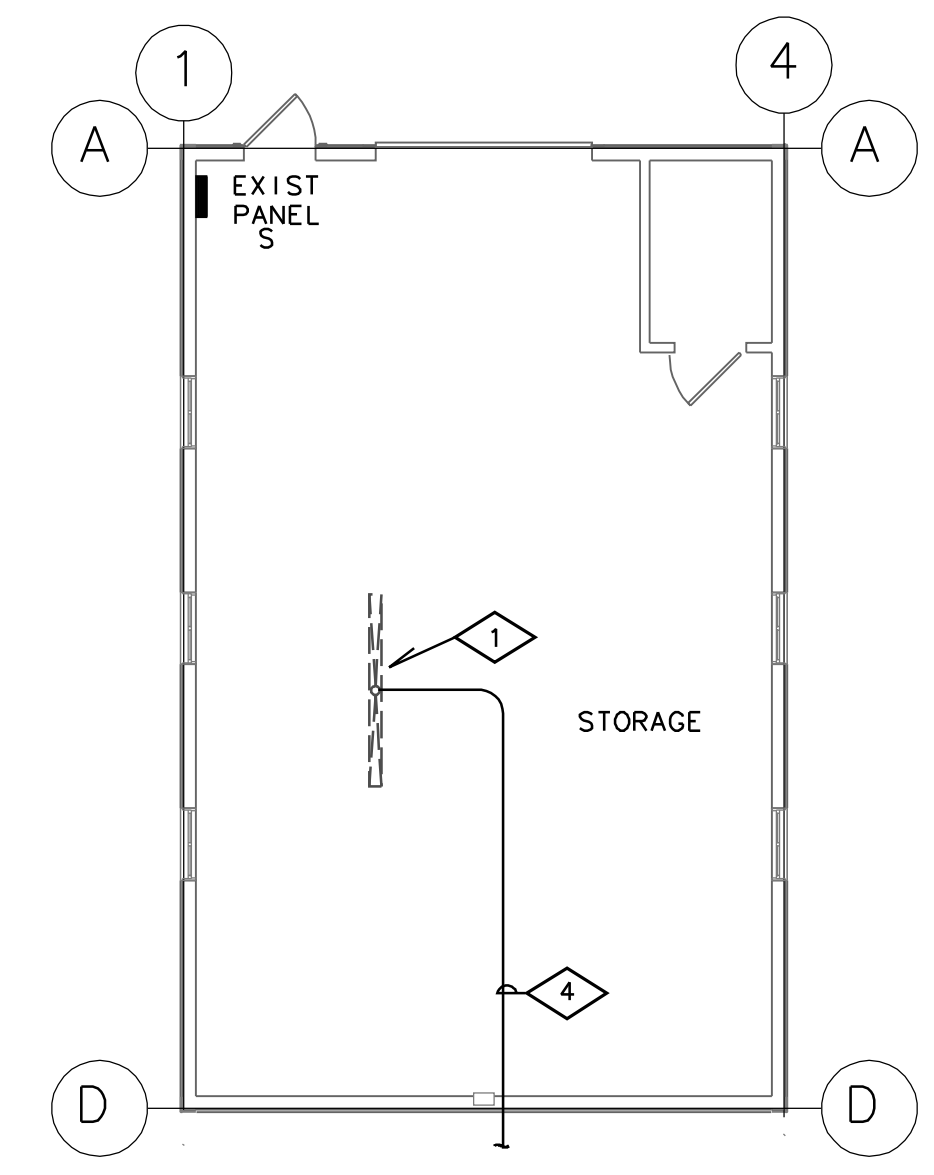
GENERAL NOTES

- CO-ORDINATE EXACT LOCATIONS AND QUANTITIES OF LIGHTING FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLANS.
- VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH-IN. CONSULT ALL APPLICABLE DRAWINGS AND SHOP DRAWINGS TO INSURE NEC REQUIRED CLEARANCES ADJACENT TO ELECTRICAL EQUIPMENT.
- CHECK SHOP DRAWINGS FOR ROUGH-IN LOCATIONS OF ALL EQUIPMENT.
- CO-ORDINATE WITH THE MECHANICAL SUB-CONTRACTORS SO THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL SYSTEM SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THROUGH ELECTRICAL ROOMS OR SPACES; OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.
- SEAL ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
- ALL WORK SHALL COMPLY WITH 2008 N.E.C.
- MULTIWIRED BRANCH CIRCUITS SHALL BE GROUPED IN PANEL PER NEC 210.4(D). PROVIDE SIMULTANEOUS DISCONNECTING MEANS PER NEC 240.4(B).

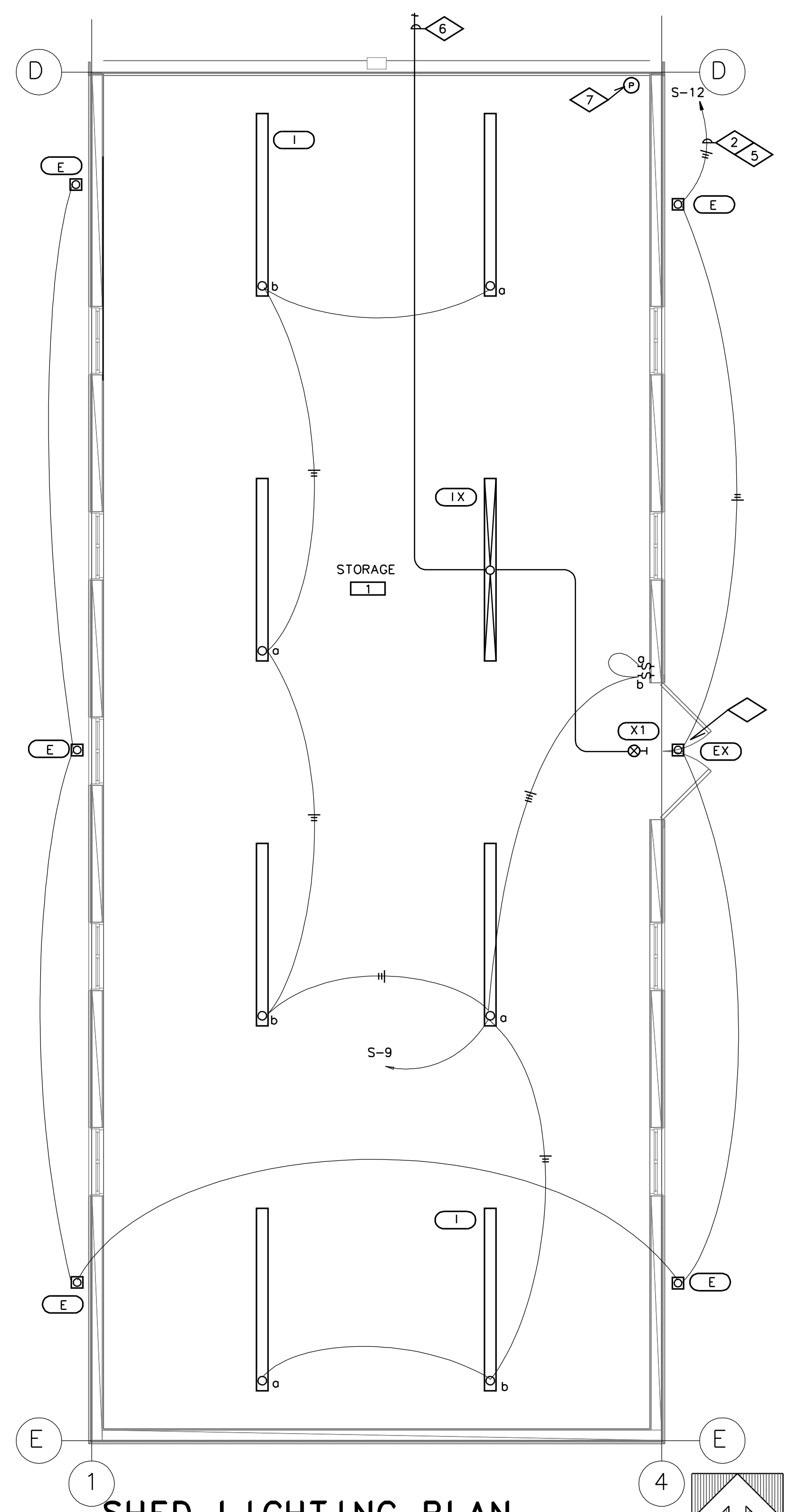
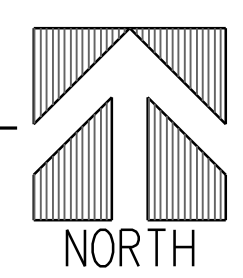


No.	Date

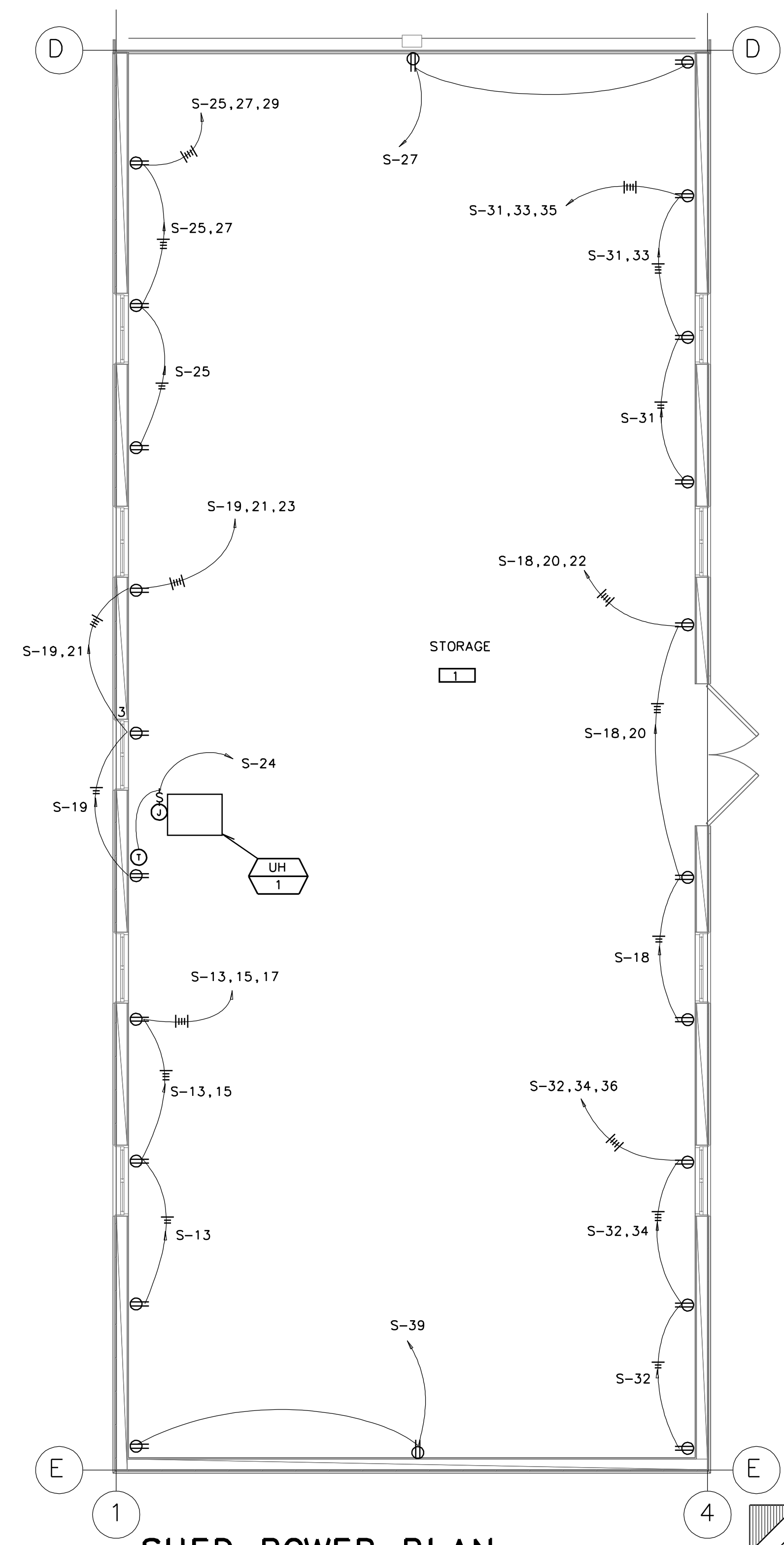
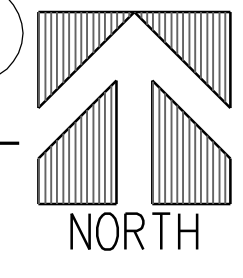
- REFERENCE NOTES
- 1 EXISTING FIXTURE IN EXISTING STORAGE BUILDING.
 - 2 HOMERUN TO PANEL VIA PHOTOCELL MOUNTED ON ROOF.
 - 3 CONNECT FIXTURE TO UNSWITCHED HOT LEG FOR EMERGENCY LTG.
 - 4 CONNECT TO EXISTING EMERGENCY LIGHT FIXTURE IN EXISTING STORAGE BUILDING.
 - 5 PROVIDE AN UNSWITCHED HOT LEG FOR EMERGENCY LIGHTING.
 - 6 CONNECT INTO EXISTING EMERGENCY LIGHTING FIXTURE IN EXISTING STORAGE PLAN SEE EXISTING STORAGE PLAN THIS SHEET FOR CONTINUATION.
 - 7 PHOTOCELL MOUNTED ON ROOF FACING NORTH. TORK MODEL #2001



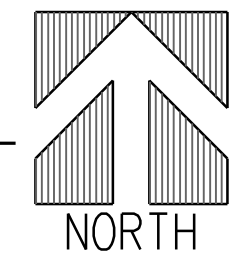
EXISTING SHED PLAN
SCALE: 1/4" = 1'-0"



SHED LIGHTING PLAN
SCALE: 1/4" = 1'-0"



SHED POWER PLAN
SCALE: 1/4" = 1'-0"

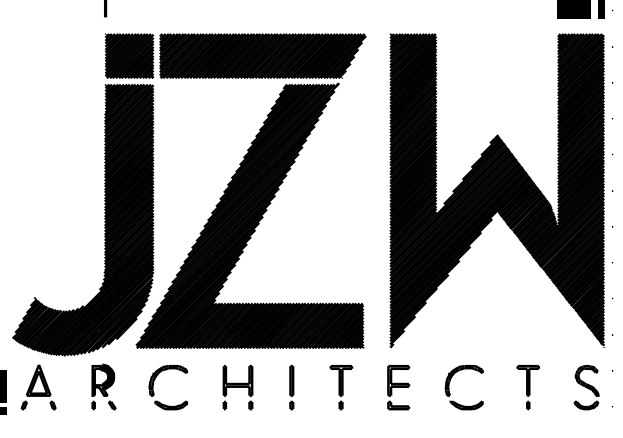
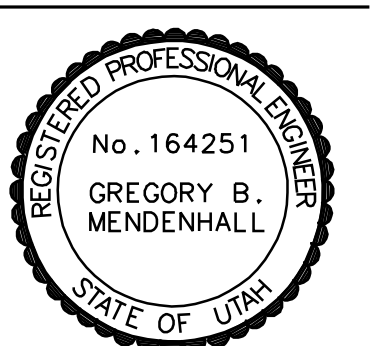


PEB Professional Engineering
3440 West 7260 South
West Jordan, Utah 84084
Ph: (801) 601-1178 Fax: (801) 601-1179
EMAIL: pro.eng@comcast.net
THESE DOCUMENTS ARE THE PROPERTY OF THE ENGINEER. NO USE OR REUSE OF THESE DOCUMENTS SHALL BE PERMITTED UNLESS AUTHORIZED IN WRITING BY PROFESSIONAL ENGINEERING SERVICES WITH APPROPRIATE COMPENSATION. COPYRIGHT © 2013

**GREEN VALLEY ACADEMY
STORAGE BUILDING**
9091 E. 100 S.
WEBER COUNTY, UTAH

SHED LIGHTING AND
POWER PLAN

E1.1





2012 IECC

Section 1: Project Information

Project Type: Addition
Project Title: Green Valley Academy Shed Addition
Exterior Lighting Zone: 2 (Residentially zoned area)
Construction Site: 9091 East 100 South, Weber County, UT
Owner/Agent: Greg B Mendenhall, Professional Engineering Services
Designer/Contractor: Greg B Mendenhall, Professional Engineering Services

Section 2: Exterior Lighting Area/Surface Power Calculation

Table with columns: Exterior Area/Surface, Quantity, Allowed Watts / Unit, Tradable Wattage, Allowed Watts (B x C), Proposed Watts. Rows include Main entry, illuminated length of facade wall or surface.

* Wattage tradeoffs are only allowed between tradable areas/surfaces.
** A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Section 3: Exterior Lighting Fixture Schedule

Table with columns: Fixture ID, Description, Lamp/Wattage Per Lamp/Ballast, Lamps/Fixture, # of Fixtures, Watt. Rows include Main entry (8 ft of door width), LED 1: EX: 6" Downlight, LED 2: E: 6" Downlight.

Section 4: Requirements Checklist

Lighting Wattage:
1. Within each non-tradable area/surface, total proposed watts must be less than or equal to total allowed watts.
Compliance: Passes.

Controls, Switching, and Wiring:
2. All exemption claims are associated with fixtures that have a control device independent of the control of the nonexempt lighting.
3. Lighting not designated for dusk-to-dawn operation is controlled by either a photosensor (with time switch), or an astronomical time switch.

Project Title: Green Valley Academy Shed Addition
Data filename: G:\225034 Green Valley Shed.cck
Report date: 08/08/13
Page 3 of 4

4. Lighting designated for dusk-to-dawn operation is controlled by an astronomical time switch or photosensor.
5. All time switches are capable of retaining programming and the time setting during loss of power for a period of at least 10 hours.

Exterior Lighting Efficacy:
6. All exterior building grounds luminaires that operate at greater than 100W have minimum efficacy of 60 lumens/watt.

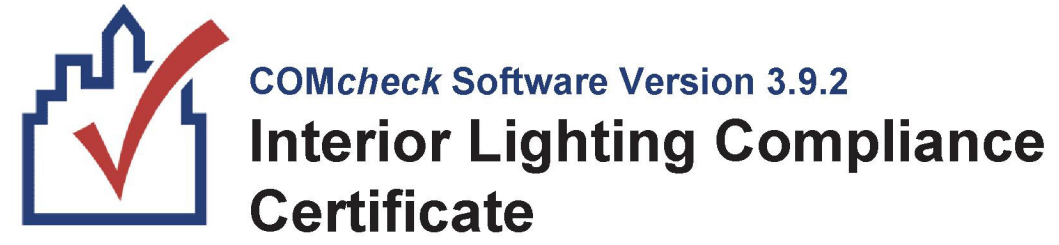
Exceptions:
Lighting that has been claimed as exempt and is identified as such in Section 3 table above.
Lighting that is specifically designated as required by a health or life safety statute, ordinance, or regulation.
Emergency lighting that is automatically off during normal building operation.
Lighting that is controlled by motion sensor.

Section 5: Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2012 IECC requirements in COMcheck Version 3.9.2 and to comply with the mandatory requirements in the Requirements Checklist.

Name - Title Signature Date

Project Title: Green Valley Academy Shed Addition
Data filename: G:\225034 Green Valley Shed.cck
Report date: 08/08/13
Page 4 of 4



2012 IECC

Section 1: Project Information

Project Type: Addition
Project Title: Green Valley Academy Shed Addition
Construction Site: 9091 East 100 South, Weber County, UT
Owner/Agent: Greg B Mendenhall, Professional Engineering Services
Designer/Contractor: Greg B Mendenhall, Professional Engineering Services

Section 2: Interior Lighting and Power Calculation

Table with columns: Area Category, Floor Area (ft2), Allowed Watts / ft2, Allowed Watts. Common Space Types: Storage.

Section 3: Interior Lighting Fixture Schedule

Table with columns: Fixture ID, Description, Lamp/Wattage Per Lamp/Ballast, Lamps/Fixture, # of Fixtures, Watt. Common Space Types: Storage (1525 sq ft).

Section 4: Requirements Checklist

Lighting Wattage:
1. Total proposed watts must be less than or equal to total allowed watts.
Mandatory Requirements:
2. Dwelling units (complete independent living facilities) within commercial buildings are not required to comply with interior lighting requirements of this code provided that >=75 percent of the permanently installed fixtures other than low voltage lighting contain only high efficacy lamps.
3. Manual Controls: Each enclosed space has manual lighting control.
4. Security/emergency areas with 24-hour operation.
5. Security/emergency areas with 24-hour operation.
6. Security/emergency areas with 24-hour operation.
7. Security/emergency areas with 24-hour operation.
8. Security/emergency areas with 24-hour operation.

Project Title: Green Valley Academy Shed Addition
Data filename: G:\225034 Green Valley Shed.cck
Report date: 08/08/13
Page 1 of 4

The area is a corridor, equipment/store rooms, restrooms, public lobby, elec/mech. room, or sleeping unit.
Areas that use < 0.8 Watts/sq ft.
Daylight spaces having automatic daylighting controls.

Automatic time switching controls are installed and have an override switching device. The override switching device allows for <= 2 hour operation cycle within spaces <= 5000 sq ft, manual operation, and is readily accessible and located where the operation of the connected lights are visible or communicated to the switch.

Emergency egress lighting.
Spaces where lighting is controlled with occupancy sensors.

Malls, arcades, auditoriums, single tenant retail spaces, industrial facilities and arenas that are <= 20,000 sq ft. are permitted except the 2-hour operation cycle limit when a captive key device override switch is installed.

Occupant sensors are installed in the following spaces and automatically turn lighting off within 30 minutes of all occupants leaving the space: Classrooms, conference/meeting/training rooms, employee lunch and break rooms, private offices, storage/janitorial rooms, restrooms, and other spaces <= 300 sq ft. Automatic-on sensors set power on < 50 percent power.

Full power automatic-on controls are permitted where manual-on operation would endanger the safety or security of the room or building occupants.

Daylight zones have either individual lighting controls independent from that of the general area lighting that are either manual or automatic and serve zones <= 2,500 sq ft. Zones under skylights more than 15 feet from the perimeter have lighting controls separate from daylight zones adjacent to vertical fenestration.

Contiguous daylight zones spanning no more than two orientations are allowed to be controlled by a single controlling device.
Daylight spaces enclosed by walls or ceiling height partitions and containing two or fewer light fixtures are not required to have a separate switch for general area lighting.

Automatic daylight zone controls are capable of reducing power to < 35 percent using continuous dimming ballasts and daylight-sensing controls OR, are capable of automatic power reduction using step-dimming multi-level switching and daylight-sensing controls having at least two control channels per zone and at least one control step in the 50 - 70 percent range and another <= 35 percent of design power.

Medical task lighting or art/history display lighting claimed to be exempt from compliance has a control device independent of the control of the nonexempt lighting.

Separate control device for display/accent lighting, case lighting, task lighting, nonvisual lighting, under-shelf/cabinet lighting, lighting for sale, and demonstration lighting.

Hotel/motel sleeping units and guest suites have control device(s) at the entry door that control all permanent luminaires and switched receptacles.

Exit signs 5 Watts or less per sign.
Tandem wired one-lamp and three-lamp ballasted luminaires (No single-lamp ballasts).

Electronic high-frequency ballasts.
Luminaires not on same switch.
Recessed luminaires 10 ft. apart or surface/pendant not continuous.
Luminaires on emergency circuits.

Interior Lighting PASSES Design 28% better than code.

Section 5: Compliance Statement

Compliance Statement: The proposed lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2012 IECC requirements in COMcheck Version 3.9.2 and to comply with the mandatory requirements in the Requirements Checklist.

Name - Title Signature Date

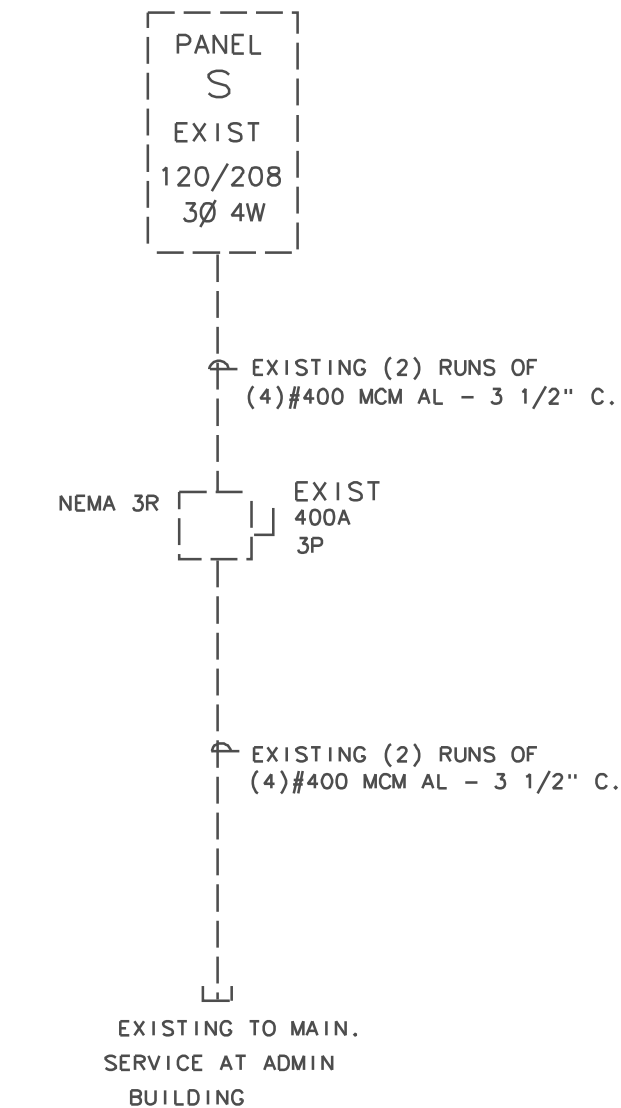
Project Title: Green Valley Academy Shed Addition
Data filename: G:\225034 Green Valley Shed.cck
Report date: 08/08/13
Page 2 of 4

PANELBOARD SCHEDULE table showing item descriptions, amperes, poles, and phases for various loads like storage, exterior, and outlets.

ELECTRICAL LOAD CALCULATION

PANEL "S" = 36,474

36,474/360 = 101A ON A 400A SERVICE



EXISTING ONE LINE DIAGRAM
SCALE: N.T.S.

PROJECT NUMBER 13024

ISSUE DATE: JUNE 19, 2013

REVISIONS:

No. Date



GREEN VALLEY ACADEMY STORAGE BUILDING
9091 E. 100 S. WEBER COUNTY, UTAH

PANLES AND ONE LINE DIA.

E3.1

