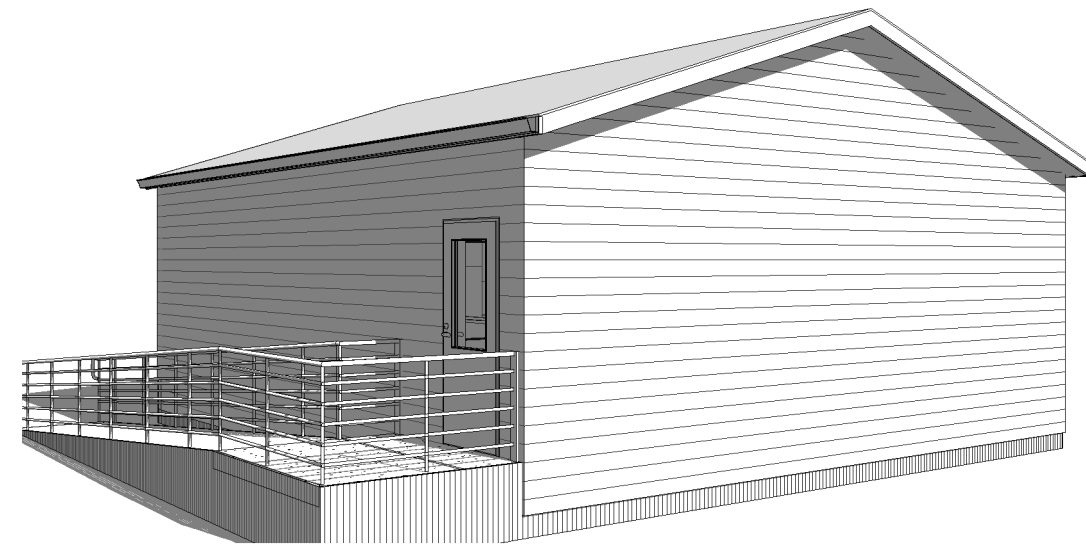


Fast Forward Portable Single Classroom

875 East 1400 North



Mechanical Engineer

156 North Twelfth Avenue
Pocatello, Idaho 83201
(208) 23-2577
nel@nielsoneng.com



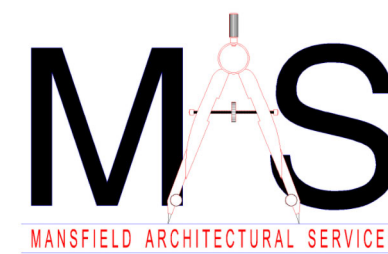
Structural Engineer

150 East 200 North Suite P
Logan, Utah 84321
(435) 755-5121
alliancecollan@yahoo.com



General Contractor

76 West 2400 North
North Logan, Utah 84341
435-890-2557
jen@dwaconstruct.com



Architect

445 East 275 North
Hyde Park, Utah 84318
(435) 512-5243
steven.mansfield@usu.edu



Electrical Engineer

525 East 3700 South
Logan, Utah 84321
435-753-1250
david@beazer-engineering.com

CODE ANALYSIS

PROJECT NAME: Fast Forward Portable Classroom
ADDRESS: 875 East 1400 North Logan, Utah 84321 Classroom
PROPOSED USE: Classroom
OWNER/CONTACT PERSON: Jen Anderson 435-890-2557
JURISDICTION: LOGAN, UTAH
CODE:
 2021 INTERNATIONAL BUILDING CODE 2021 INTERNATIONAL MECHANICAL CODE
 2021 INTERNATIONAL PLUMBING CODE 2020 NATIONAL ELECTRICAL CODE
 2021 INTERNATIONAL FIRE CODE 2021 NATIONAL FUEL GAS CODE
 2021 INTERNATIONAL ENERGY CODE COUNCIL AMERICANS W/ DISABILITIES ACT ACCESSIBILITY GUIDELINES
 A117.1 AMERICANS NATIONAL STANDARDS INSTITUTE A17.1 AMERICAN SOCIETY OF MECHANICAL ENGINEERS
 PROJECT TO COMPLY W/ ICC A117.1-2017

GENERAL:
 OCCUPANCY E - Education
 REQUIRED FIRE SEPARATION 0 hour - TABLE 705.5

FIRE RESISTIVE REQUIREMENTS (TABLE 601):

CONSTRUCTION TYPE	VB
STRUCTURAL FRAME	0 HR RATING
BEARING WALLS	0 HR RATING
EXTERIOR	0 HR RATING
INTERIOR	0 HR RATING
NON BEARING WALLS	0 HR RATING
FLOOR CONSTRUCTION	0 HR RATING
ROOF CONSTRUCTION	0 HR RATING

BUILDING HEIGHT (TABLE 504.3):

ALLOWABLE HEIGHT	40 FEET
ACTUAL HEIGHT	16 FEET

NUMBER OF STORIES (TABLE 504.4):

ALLOWABLE STORIES	1
ACTUAL STORIES	1

ALLOWABLE AREA (506.2):

ALLOWABLE AREA	9,500 S.F.
ACTUAL AREA (MAIN FLOOR)	785 S.F.

FIRE PROTECTION SYSTEMS:

FIRE EXTINGUISHING SYSTEM: N
 STANDPIPE SYSTEM: N
 FIRE DETECTION SYSTEM REQUIRED: N
 SMOKE AND HEAT REMOVAL: N

OCCUPANT LOAD CALCULATION (TABLE 1004.1.1):

OCCUPANT LOAD AS PER IBC TABLE 1004.5 (20 net) TOTAL = 785/20 = 40 PEOPLE

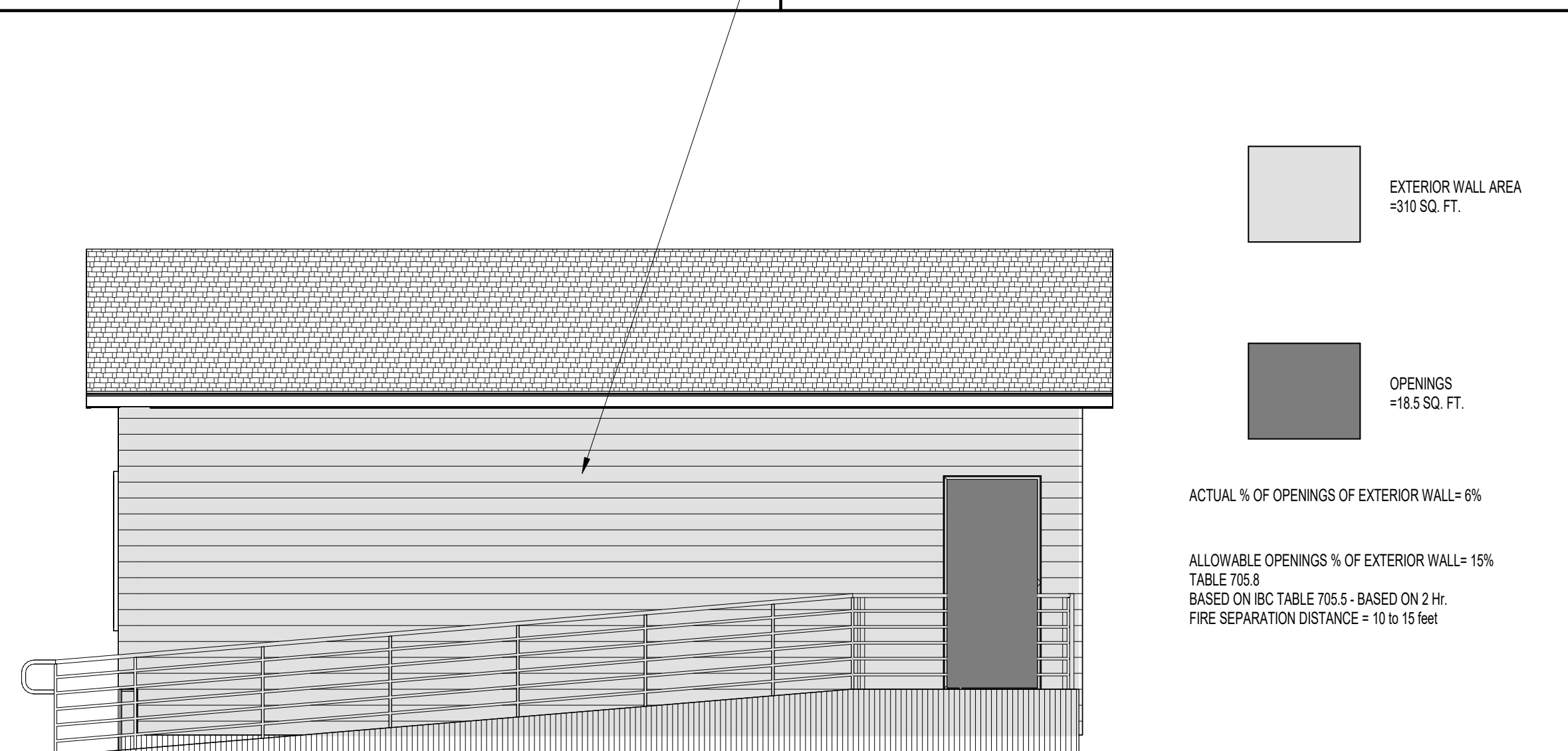
EGRESS WIDTH (TABLE 1005.1):

CORRIDORS	OCCUPANT < OR = 30	36" MIN
	OCCUPANT > OR = 30	44" MIN
CORRIDOR DOORS	2 INCHES PER OCCUPANT	= 40x 2" = 8" OF EXIT REQUIRED 36" OF EXIT PROVIDED

EXIT TRAVEL DISTANCE (TABLE 1017.2):

MAX. TRAVEL DISTANCE 200 FEET WITH SPRINKLER SYSTEM
 300 FEET
 FOR MAX. TRAVEL DISTANCE REFER TO SHEET G101. NO TRAVEL DISTANCE EXCEEDS 100 FEET.

Index of Drawings	
Sheet Number	Sheet Name
G100	Title Sheet & Code Information
A100	Plans
A101	Elevations
A102	Building Sections
A103	Wall Sections
A104	Schedules & Details
A105	Interior Elevations & Millwork Sections
S0.1	Structural Cover Sheet
S1.1	Structural Framing Plans
S2.1	Structural Details
E1.1	Electrical Plans
E1.2	Electrical Diagrams & Schedules
M-2	Mechanical



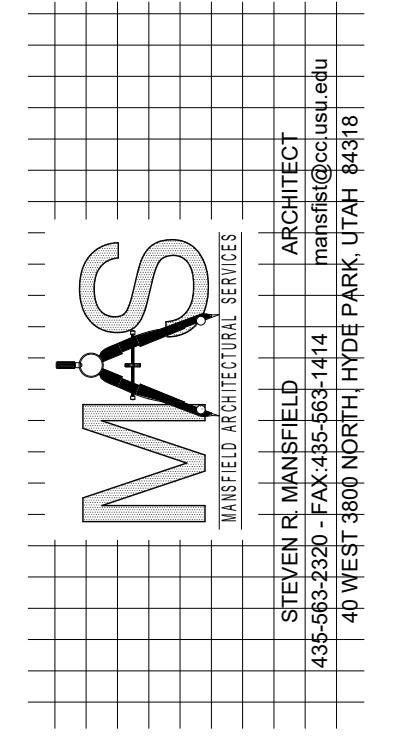
East Elevation For Fire Rating
 1
 G100 1/4" = 1'-0"

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ABBR.	DESCRIPTION	ABBR.	DESCRIPTION
ACC STA	ACCESSIBLE STATION	MECH	MECHANICAL
AC	ACOUSTIC, ACOUSTICAL	MTL	METAL
ADJ	ADJUSTABLE	MIN	MINIMUM
ALT	ALTERNATE	MISC	MISCELLANEOUS
ALUM	ALUMINUM	MT	MOUNT
AB	ANCHOR BOLT	(N)	NEW
ANG	ANGLE	NIC	NOT IN CONTRACT
ASPH	ASPHALT	NTS	NOT TO SCALE
BSMT	BASEMENT	O/C	ON CENTER
BRG	BEARING	OPNG	OPENING
BM	BENCHMARK	OPP	OPPOSITE
BLKG	BLOCKING	OD	OUTSIDE DIAMETER
BD	BOARD	OH	OVERHEAD
B.O.	BOTTOM OF	OF/CI	OWNER FURNISHED/ OWNER INSTALLED
BLDG	BUILDING	OF/DI	
B.U.R.	BUILT UP ROOF	PARTN	PARTITION
CLG	CENTERLINE	P-LAM	PLASTIC LAMINATE
CL	CERAMIC TILE	PL	PLYWOOD
CB	CHALK BOARD	PREFAB	PREFABRICATED
C	CHANNEL	PROJ	PROJECTION
CO	CLEAN OUT	QUARRY TILE	QUARRY TILE
COL	COLUMN	RAD	RADIUS
CONC	CONCRETE	REF	REFRIGERATOR
CONN	CONNECTION	REINF	REINFORCED
CONT	CONTINUOUS	REV	REVISION
CONTR	CONTRACTOR	RD	ROUND
DIM	DIMENSION	SCHED	SCHEDULE
DWG	DRAWING	SIM	SIMILAR
EA	EACH	SHT	SHEET
ELECT	ELECTRICAL	SPEC	SPECIFICATION
EWIC	ELECTRIC WATER COOLER	SQ	SQUARE
ELEV	ELEVATION	SS	STAINLESS STEEL
EQ	EQUAL	STD	STANDARD
EQUIP	EQUIPMENT	STL	STEEL
EXIST	EXISTING	STOR	STORAGE
(E)	EXISTING	STRUCT	STRUCTURAL
EXP	EXPANSION	SUSP	SUSPENDED, SUSPENSION
EXT	EXTERIOR	SYS	SYSTEM
FIN	FINISH	T&B	TANK/BOARD
FEC	FIRE EXTINGUISHER CABINET	TEL	TELEPHONE
FLR	FLOOR	TV	TELEVISION
FD	FLOOR DRAIN	TEMP	TEMPORARY
GALV	GALVANIZED	TS	TUBE STEEL
GI	GALVANIZED IRON	THRES	THRESHOLD
GA	GAUGE	TOIL	TOILET
GYP BD	GYPSON BOARD	T.O.	TOP OF
HDWD	HARD WOOD	T & B	TOP AND BOTTOM
HT	HEIGHT	TYP	TYPICAL
HM	HOLLOW METAL	VERT	VERTICAL
HORIZ	HORIZONTAL	U.N.O.	UNLESS NOTED OTHERWISE
ID	INSIDE DIAMETER	WC	WATER CLOSET
INSUL	INSULATION	WM	WATER METER
INT	INTERIOR	WWF	WELDED WIRE FABRIC
JT	JOINT	W	WIDE FLANGE
MFR	MANUFACTURER	WIDO	WINDOW
MB	MARKER BOARD	WIF	WITH
MAX	MAXIMUM	W/O	WITHOUT
		WD	WOOD

SYMBOL	DESCRIPTION
	BUILDING SECTION
	SECTION CUT
	DETAIL BUBBLE
	INTERIOR ELEVATION
	EXTERIOR ELEVATION
	REVISIONS
	ELEVATION
	DOOR NUMBER
	WINDOW TYPES
	WALL TYPE
	ROOM TAGS
	SLOPE
	GRID BUBBLE
	KEY NOTES

SYMBOL	DESCRIPTION
	EARTH
	COMPACTED GRANULAR FILL
	FINISHED WOOD
	EXISTING STRUCTURE TO REMAIN
	GYPSUM BOARD
	CONCRETE
	PLYWOOD/OSB
	SHINGLES
	WOOD STUD WALL
	RIDGED INSULATION
	BATT INSULATION
	BRICK/MASONRY
	CONCRETE MASONRY UNIT (CMU)
	PARTICLE BOARD
	CONTINUOUS WOOD
	STEEL

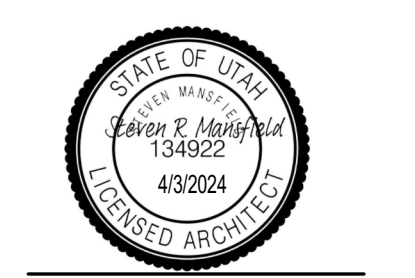


Fast Forward Portable Single Classroom

OWNERS NAME State of Utah
 PROJECT ADDRESS 875 east 1400 North

MARK:	DATE:	DESCRIPTION:
1	Date 1	Revision 1

PROJECT # 331
 DESIGNED BY: srm
 DRAWN BY: srm
 CHECKED BY: srm
 ISSUED : Issue Date



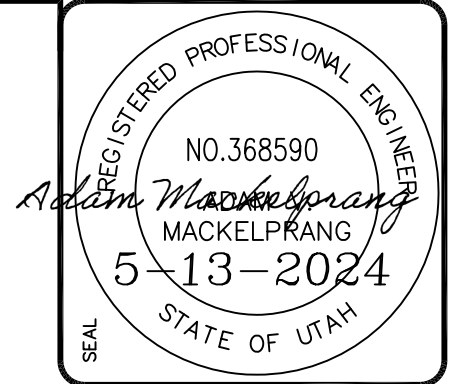
Title Sheet & Code Information

G100

FAST FORWARD PORTABLE CLASSROOMS

875 WEST 1400 NORTH, LOGAN UT

INDEX SHEET



ALLIANCE CONSULTING ENGINEERS

150 EAST 200 NORTH SUITE P
LOGAN, UTAH 84321
(435)735-5111
alliance@alliance-engineers.com

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No.	REVISIONS / SUBMISSIONS	DATE

DRAWN : _____
PROJECT NO. : _____
REVIEWED : _____
CAD FILE : _____

FAST FORWARD PORTABLE CLASSROOMS
875 WEST 1400 NORTH, LOGAN UT

DRAWING TITLE: **INDEX SHEET**

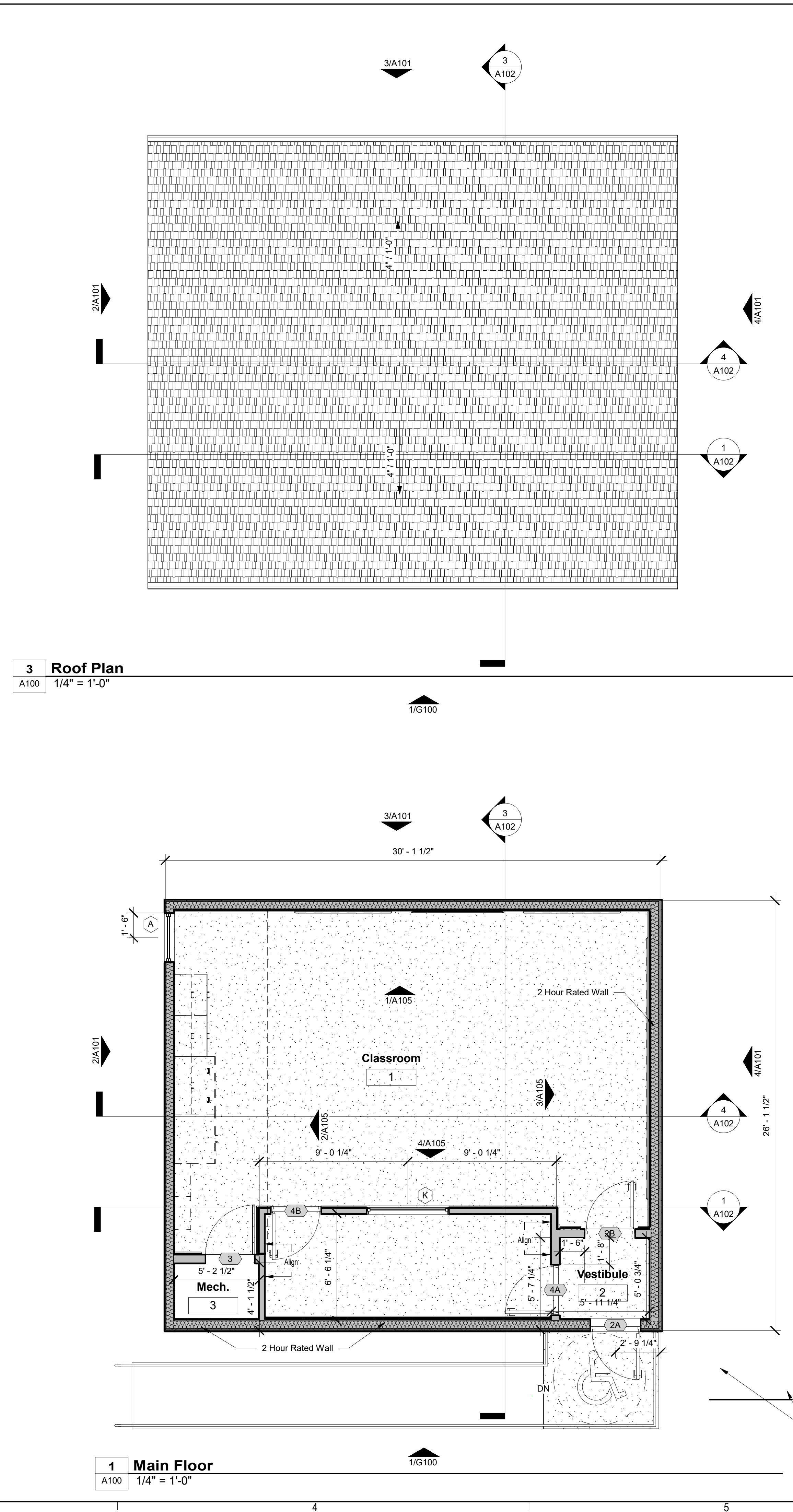
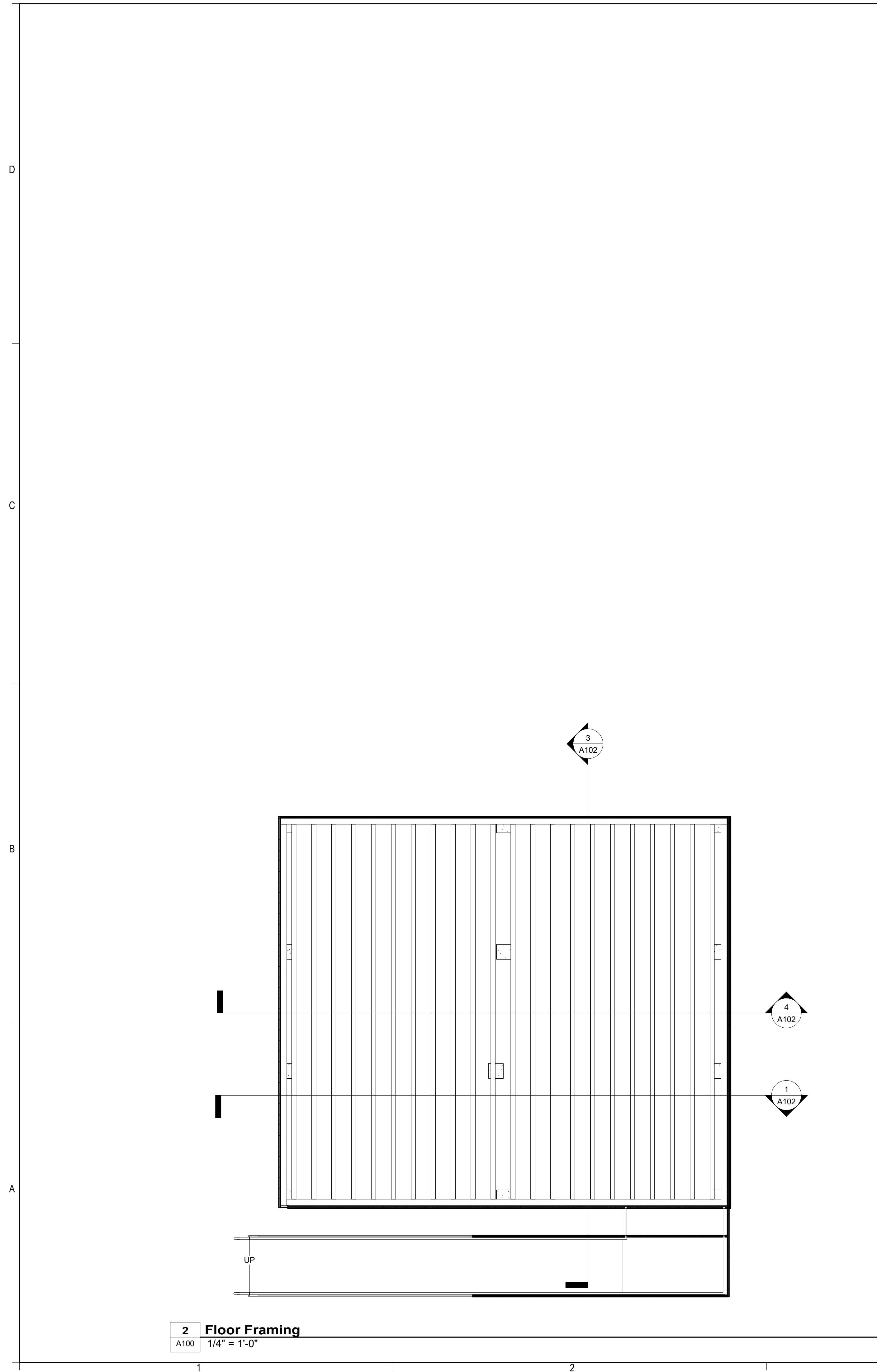
DATE : DEC, 2023
DRAWING No. **1**



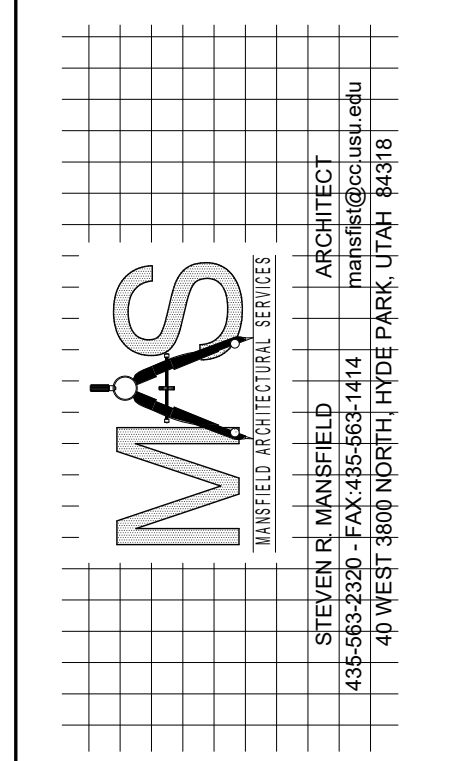
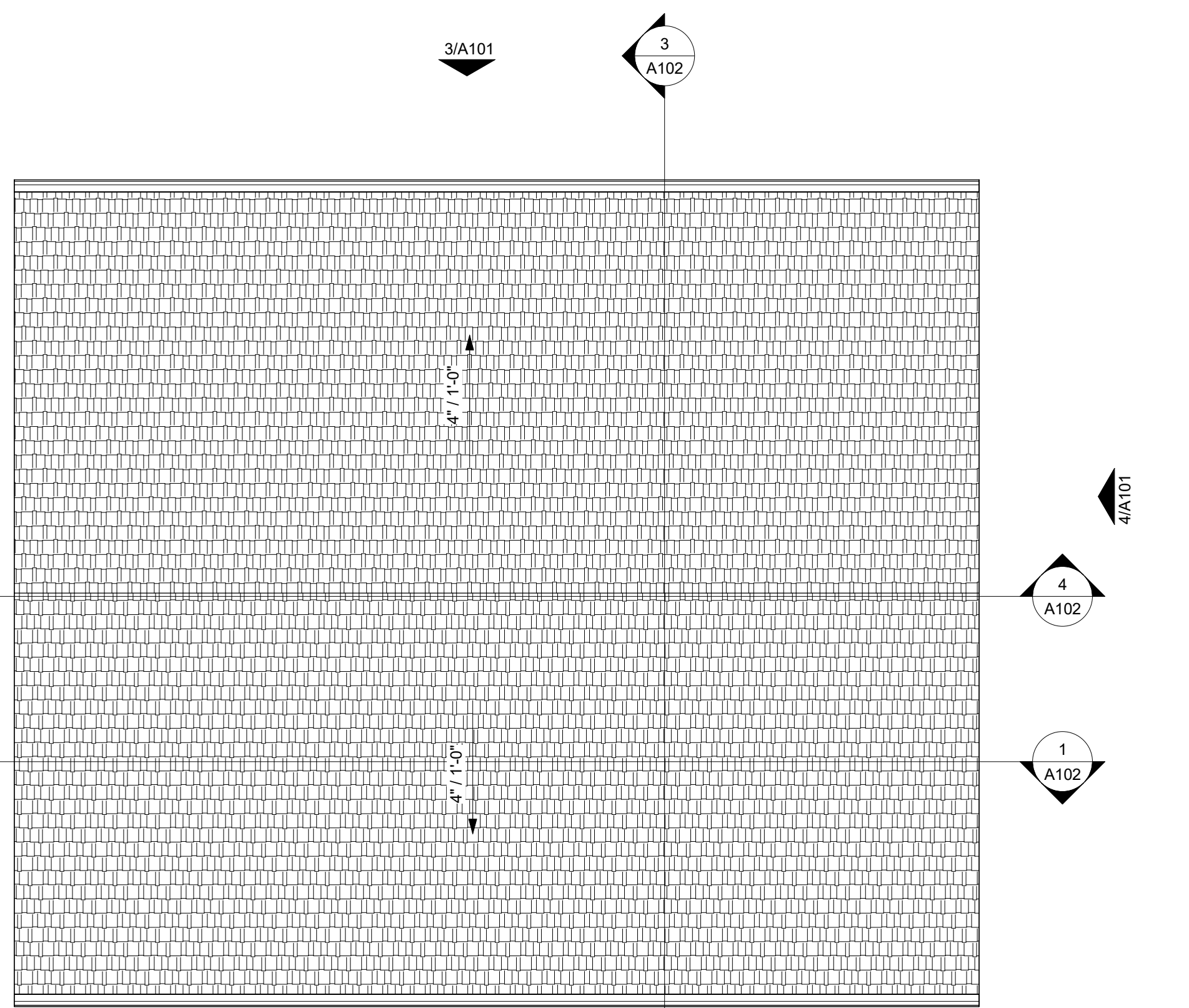
PROJECT
VICINITY MAP

SHEET INDEX	
SHEET NO.	SHEET DESCRIPTION
1	INDEX SHEET
2	DEMO/SITE PLAN
3	GRADING PLAN

- GENERAL NOTES (APPLICABLE TO ALL CIVIL SHEETS):
1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, CITY OF LOGAN, STATE OF UTAH AND ANY OTHER APPLICABLE STANDARDS ISSUED BY THE CONTROLLING AGENCY.
 2. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS BEFORE CONSTRUCTION. ANY DISCREPANCIES BETWEEN CONSTRUCTION DOCUMENTS AND FIELD CONDITIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE OWNER.
 3. CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY AREAS AND/OR MATERIALS DAMAGED DURING CONSTRUCTION.
 4. CONTRACTOR SHALL MAINTAIN ALL ADJACENT PROPERTY (PUBLIC & PRIVATE) FROM ALL CONSTRUCTION DEBRIS.
 5. CONTRACTOR SHALL PROVIDE SMOOTH TRANSITION FROM ALL NEW CONSTRUCTION TO EXISTING CONDITIONS.
 6. CONTRACTOR SHALL PROVIDE ALL NECESSARY AUTOMOBILE AND PEDESTRIAN TRAFFIC CONTROL DEVICES REQUIRED BY LOCAL, STATE, AND FEDERAL CODES AND ORDINANCES.
 7. CONTRACTOR SHALL REPLACE SURVEY MONUMENTS DAMAGED DURING CONSTRUCTION. SURVEY MONUMENTS TO BE REPLACED BY A REGISTERED, LICENSED LAND SURVEYOR.
 8. CONTRACTOR TO LOCATE ALL EXISTING UTILITIES, INCLUDING FIBER OPTIC. ANY DAMAGES TO EXISTING UTILITIES WILL BE REPAIRED AT CONTRACTORS EXPENSE.
 9. DIMENSIONS SHOWN ARE TO THE CENTER OF THE PIPELINE UNLESS OTHERWISE NOTED.
 10. DISTANCES SHOWN ALONG PIPELINES ARE HORIZONTAL DISTANCES AND NOT ACTUAL PIPE LENGTHS. MORE PIPE MAY BE REQUIRED TO COMPLETE CONSTRUCTION THAN IS DIMENSIONED IN THE PLANS.
 11. THRUST BLOCKS SHALL BE PLACED ON WATERLINES AT ALL DIRECTION CHANGES, FITTINGS, BENDS, ELBOWS, FIRE HYDRANTS AND GATES VALVES AS SHOWN IN THE PROJECT PLANS.
 12. CONTRACTOR IS REQUIRED TO HAVE A SET OF PLANS ON THE SITE AT ALL TIMES. ANY WORK COMPLETED WITHOUT A SET PRESENT IS DONE SO AT THE CONTRACTORS RISK AND EXPENSE IF ERRORS OCCUR.
 13. CONTRACTOR IS RESPONSIBLE FOR PROVIDING WATER NECESSARY FOR DUST ABATEMENT, COMPACTION, ETC.
 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING SOURCES FOR GRANULAR MATERIALS, WATER, WASTE SITES, AND ANY OTHER MATERIALS SOURCES AS REQUIRED FOR PROJECT COMPLETION.
 15. ANY WORK DONE WITHIN A PUBLIC RIGHT-OF-WAY SHALL BE COORDINATED WITH THE APPROPRIATE TRANSPORTATION AGENCY AND SHALL MEET THE REQUIREMENTS OF THAT AGENCY AND THE REQUIREMENTS OF ANY RIGHT-OF-WAY OR SPECIAL USE PERMITS.
 16. THE CONTRACTOR SHALL COORDINATE ALL LIVE TAPS AND ANY OTHER WORK OR MANIPULATION OF THE EXISTING WATER SYSTEM WITH THE CITY.
 17. ON SLOPING AREAS THE CONTRACTOR SHALL TAKE PRECAUTIONS TO MITIGATE ANY POSSIBLE EROSION PROBLEMS IN THE TRENCHES DUE TO STORM WATER THAT MIGHT OCCUR DURING OR AFTER CONSTRUCTION AS DIRECTED OR APPROVED BY ENGINEER.
 18. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL EROSION CONTROL MEASURES AS DETAILED IN THE PROJECT PLANS UNTILL FINAL ACCEPTANCE OF THIS PROJECT.
 19. THE CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONS NECESSARY TO INSURE THAT NO STORM WATER/SEDIMENT AND/OR CONSTRUCTION DEBRIS ARE RELEASED FROM THE SITE. ANY RELEASES SHALL BE CLEANED AND MITIGATED AT THE CONTRACTOR'S EXPENSE.
 20. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACCESS AND RELATED TRAFFIC CONTROL WITH THE COUNTY, CITY, AND STATE ROADWAY DEPARTMENTS. THE ENGINEER SHALL REVIEW ALL TRAFFIC CONTROL PLANS.
 22. ALL GATE VALVES SHALL BE LOCATED NEAR TO TEES OR CROSSES AND THEIR ASSOCIATED REDUCERS AS SHOWN ON THE PROJECT PLANS.
 23. CONTRACTOR SHALL PROVIDE ALL NECESSARY FITTINGS, HARDWARE, LABOR, ETC. TO CONSTRUCT VERTICAL AND HORIZONTAL BENDS IN PIPE AS NEEDED TO MEET THE REQUIRED GRADES, ALIGNMENTS AND COVER REQUIREMENTS.
 24. ALL AIR RELEASE VALVES SHALL BE INSTALLED AT THE CREST OF THE VERTICAL CURVATURE OF THE WATER LINE. CONTRACTOR SHALL RECORD ACTUAL LOCATION OF VALVES ON FIELD RECORD DRAWINGS.
 25. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF LOGAN FOR ALL UTILITY INSPECTIONS PRIOR TO BACKFILLING.
 26. ALL WATER SYSTEM COMPONENTS SHALL BE INSTALLED, PRESSURE TESTED, AND CHLORINATED PRIOR TO COMPLETING ANY ROADWAY CONSTRUCTION.



3 Roof Plan
A100 1/4" = 1'-0"

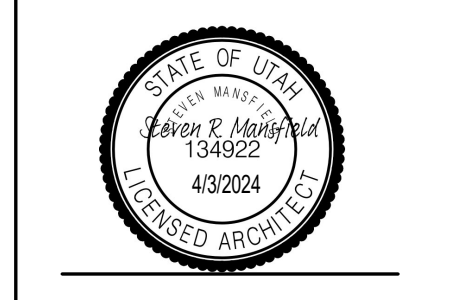


Fast Forward Portable Single Classroom

OWNERS NAME State of Utah
PROJECT ADDRESS 875 east 1400 North

MARK:	DATE:	DESCRIPTION:

PROJECT # 331
DESIGNED BY srm
DRAWN BY srm
CHECKED BY srm
ISSUED : Issue Date

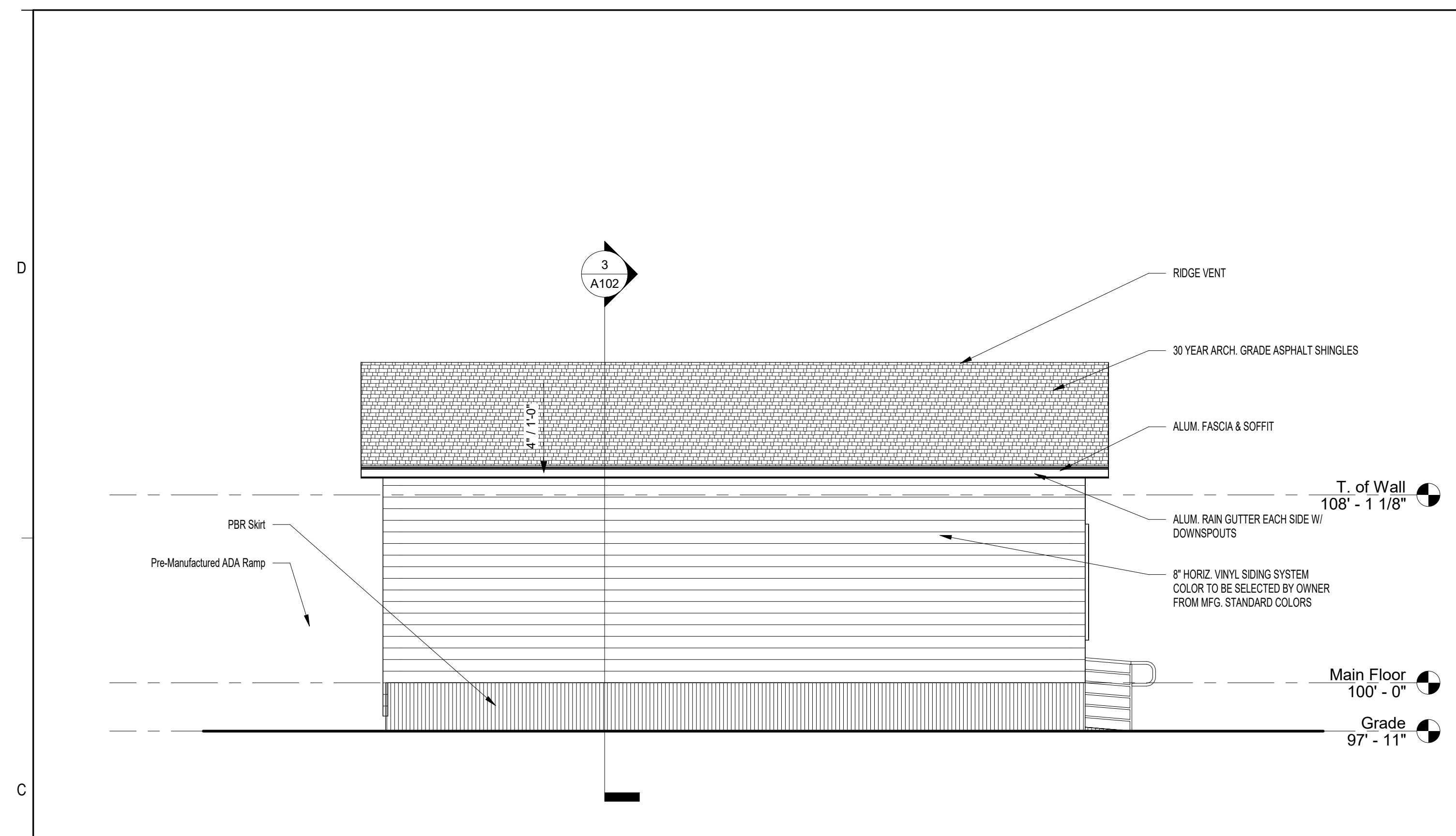
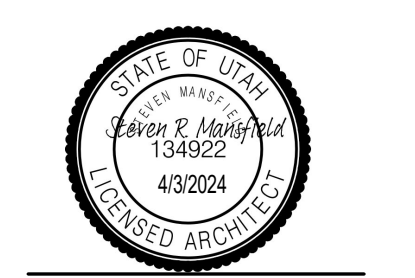


Fast Forward Portable Single Classroom

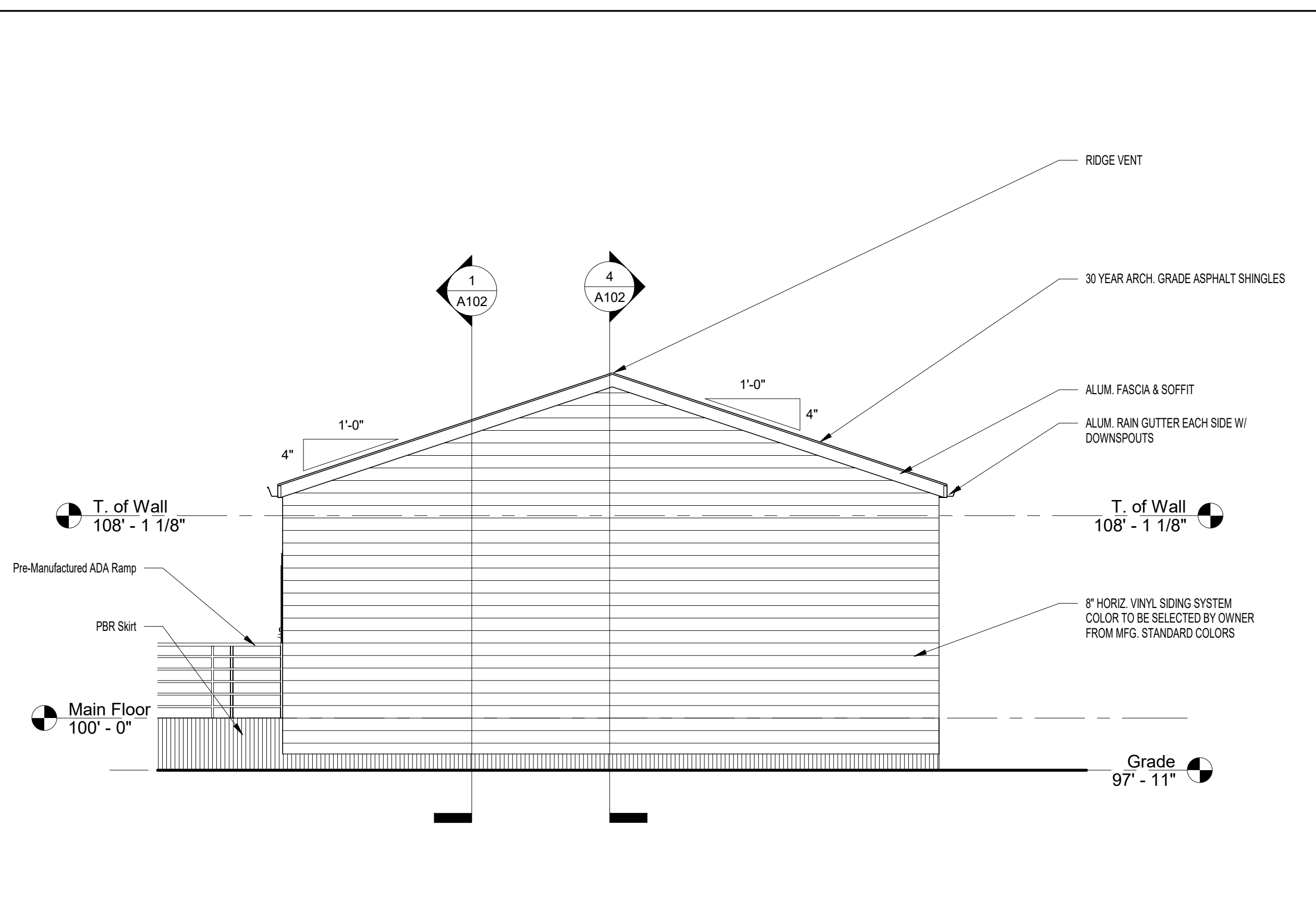
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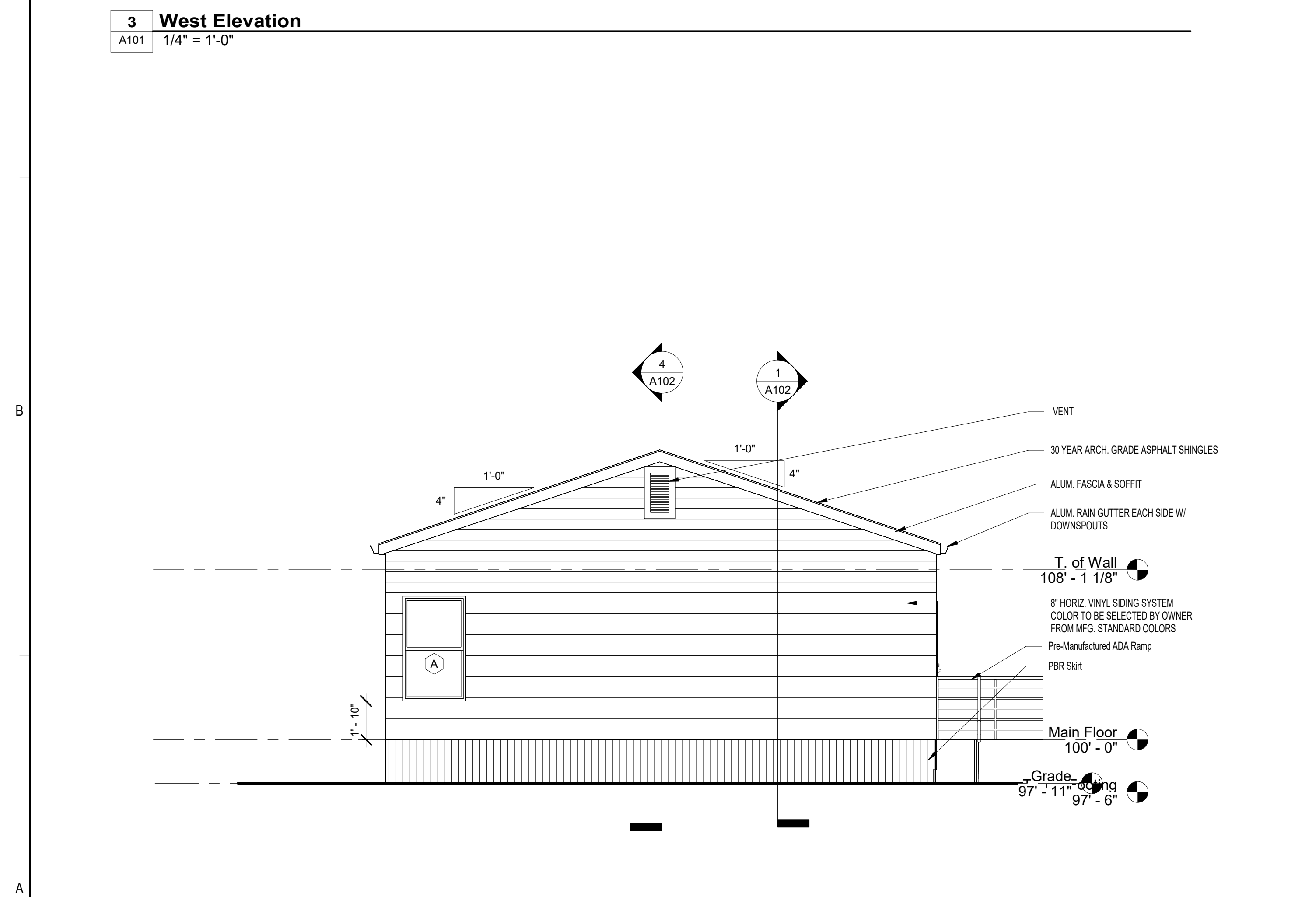
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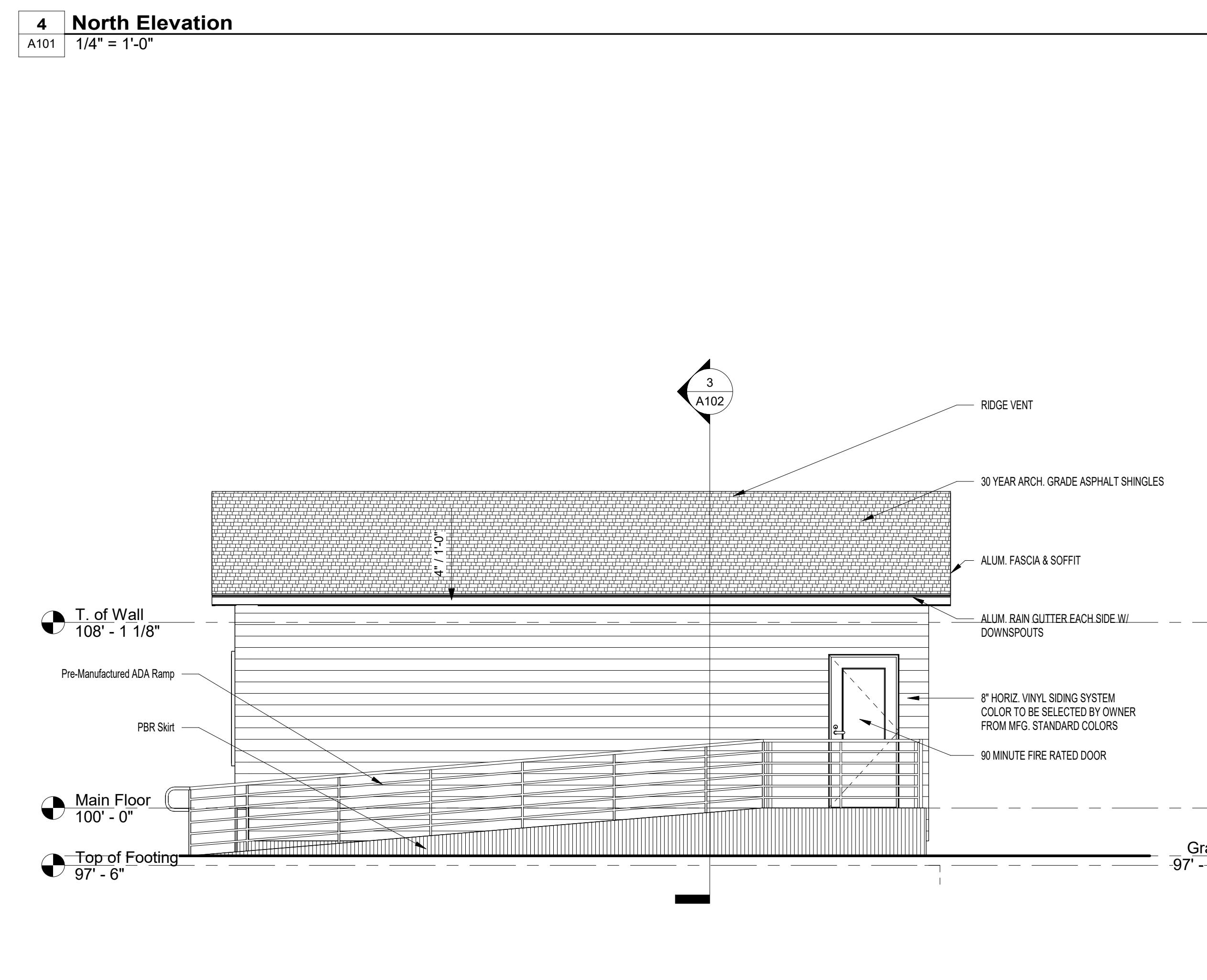
3 West Elevation
 A101 1/4" = 1'-0"



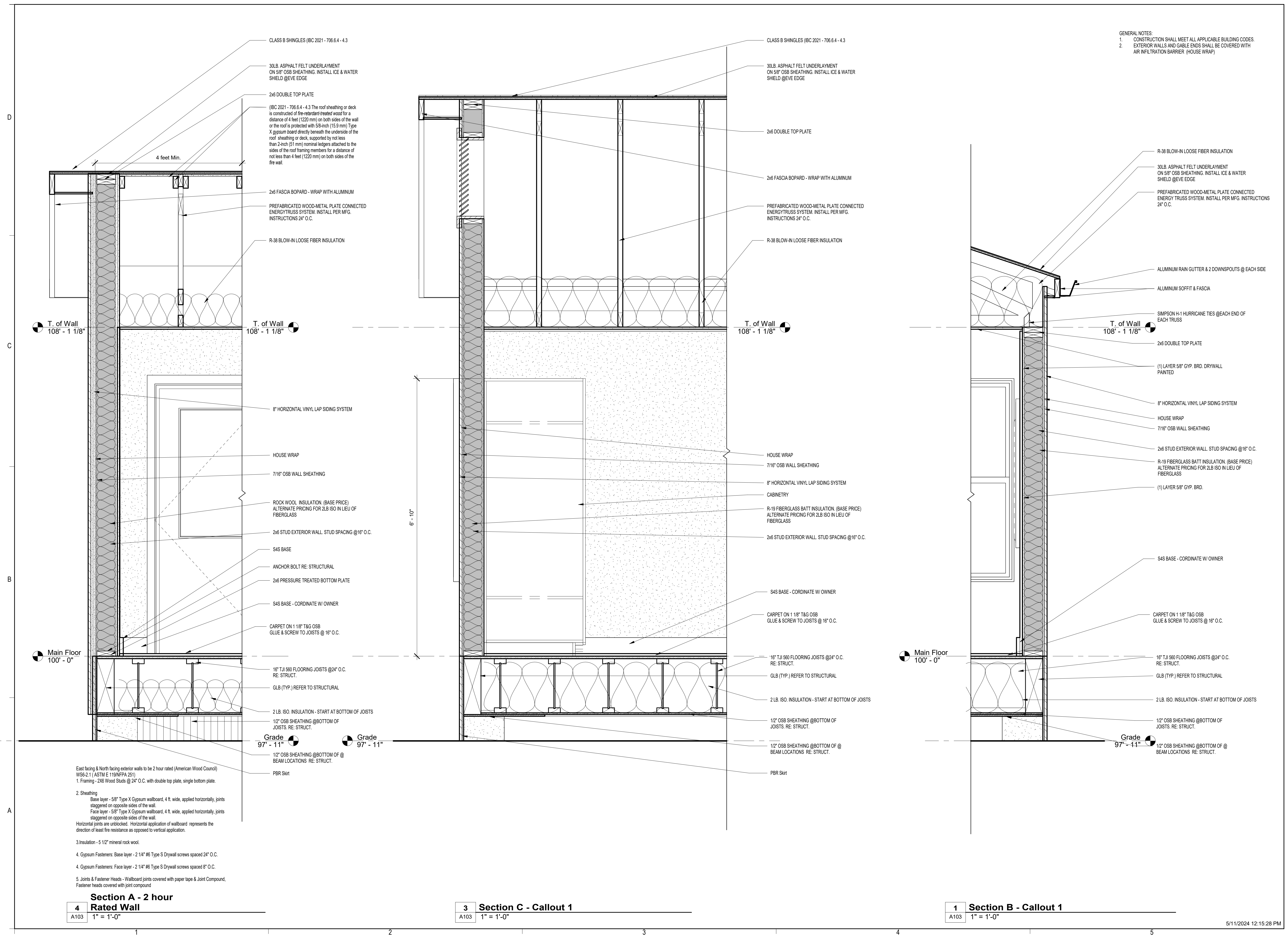
4 North Elevation
 A101 1/4" = 1'-0"



2 South Elevation
 A101 1/4" = 1'-0"



1 East Elevation
 A101 1/4" = 1'-0"



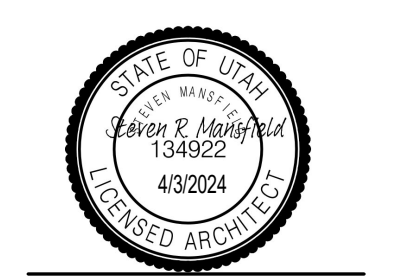
GENERAL NOTES:
 1. CONSTRUCTION SHALL MEET ALL APPLICABLE BUILDING CODES.
 2. EXTERIOR WALLS AND GABLE ENDS SHALL BE COVERED WITH AIR INFILTRATION BARRIER. (HOUSE WRAP)

MAS
 ARCHITECT
 STEVEN R. MANSFIELD
 435-562-2320 - FAX: 435-563-1414
 40 WEST 3800 NORTH, HYDRE PARK, UTAH 84318

Fast Forward Portable Single Classroom
 OWNERS NAME State of Utah
 PROJECT ADDRESS 875 east 1400 North

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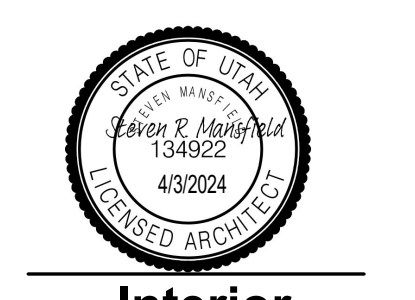


Fast Forward Portable Single Classroom

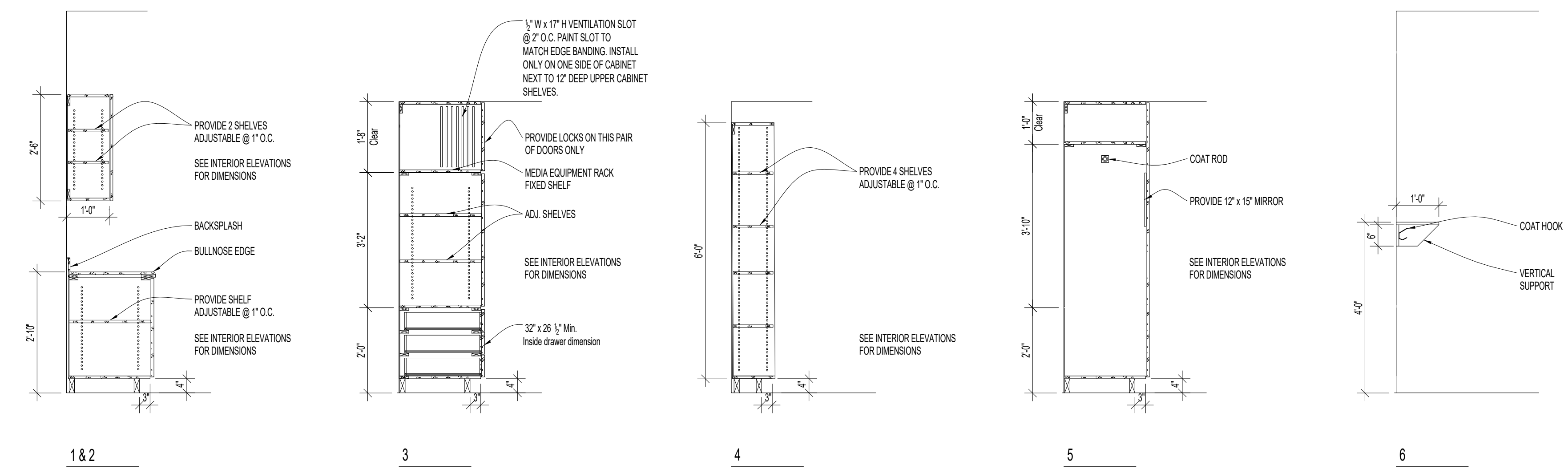
OWNERS NAME State of Utah
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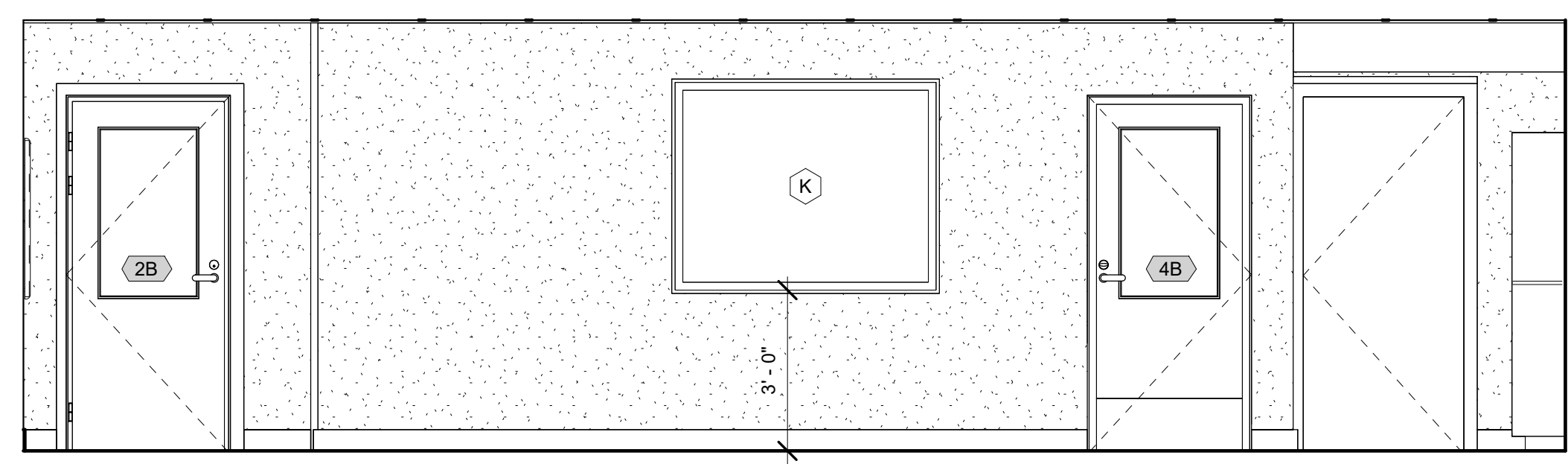
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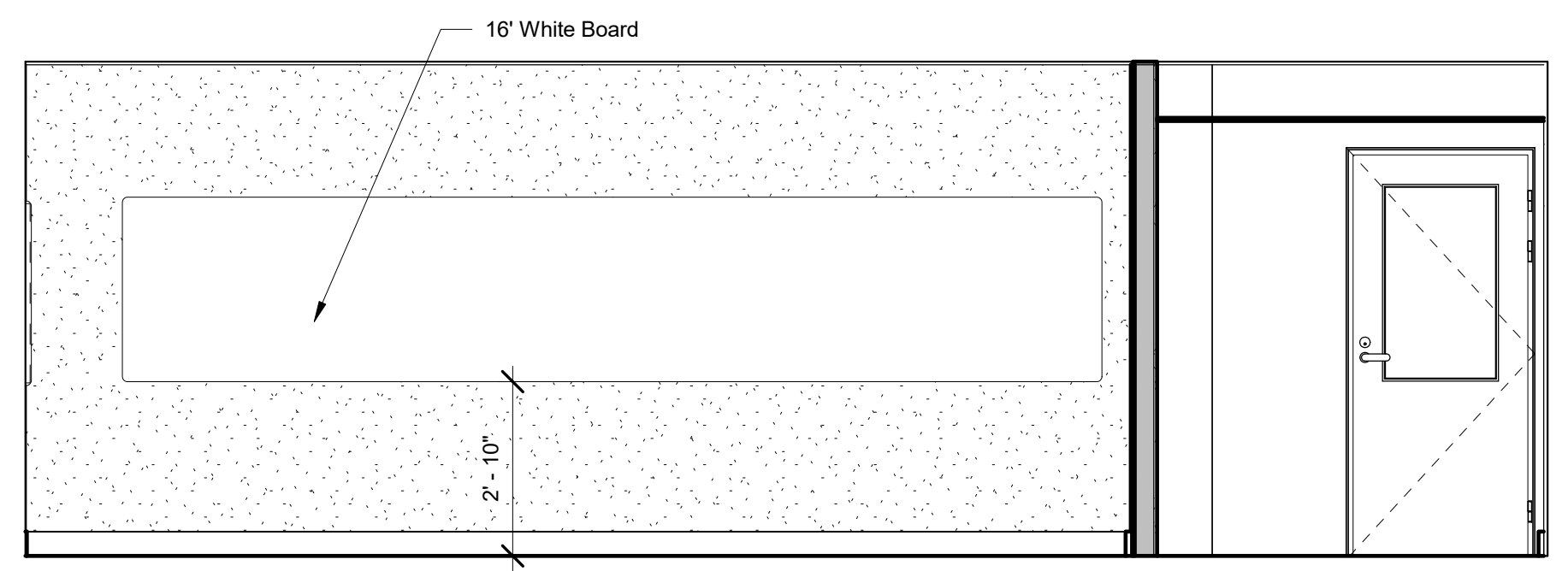
Interior Elevations & Millwork Sections



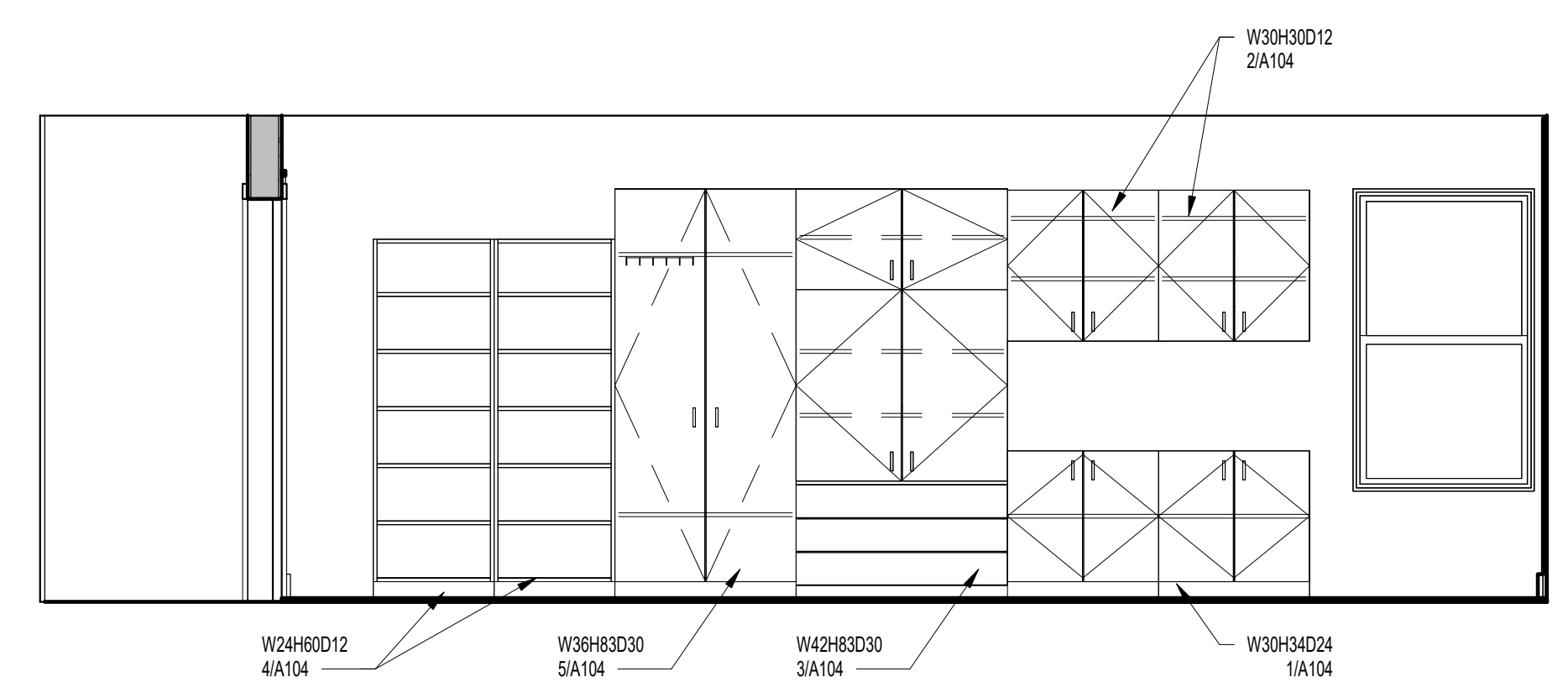
5 Millwork Sections
 A105 1/2" = 1'-0"



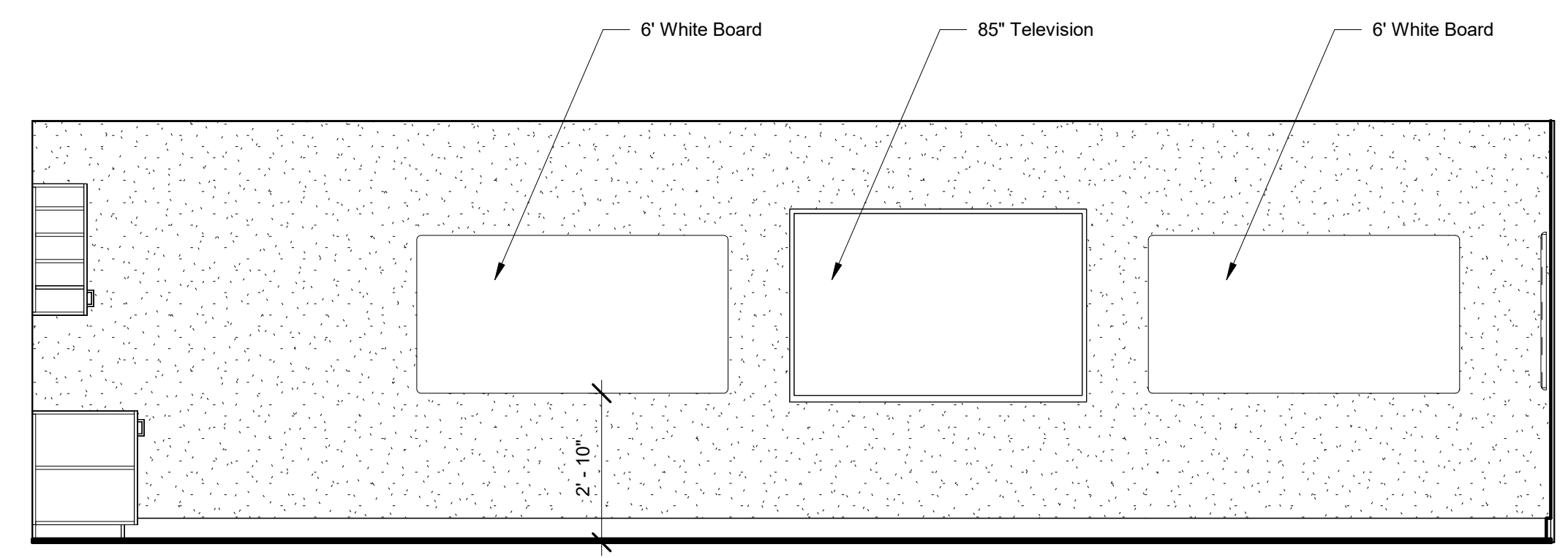
4 Interior Elevation 4
 A105 3/8" = 1'-0"



3 Interior Elevation 3
 A105 3/8" = 1'-0"



2 Interior Elevation 2
 A105 3/8" = 1'-0"



1 Interior Elevation 1
 A105 3/8" = 1'-0"

STRUCTURAL SPECIFICATIONS

BASIS OF DESIGN

1. GOVERNING BUILDING CODE: 2021 IBC
2. GRAVITY LOADING
 - A. GENERAL ROOF... 40 PSF SNOW LOAD (ROOF)
 - B. FLOOR.... 40 PSF LIVE LOAD (SCHOOLS-CLASSROOMS)
3. EARTHQUAKE
 - A. SEISMIC RISK CATEGORY II
 - B. SEISMIC DESIGN CATEGORY D
 - C. SITE CLASS D
 - D. SEISMIC FORCE RESISTING SYSTEM:
LIGHT FRAMED WOOD WALLS
R=6.5
 - E. ANALYSIS PROCEDURE:
SIMPLIFIED
BASE SHEAR
 - F. $S(S)=1.003 / S(1)=0.316$
 - G. $S(0S)=0.67 / S(D1)=0.40$
 - H. $C(S)=1.03$
 - I. BASE SHEAR = 4.7K
4. WIND
 - A. VELOCITY = 115 MPH (3-SEC GUST)
 - B. EXPOSURE = C
 - C. $I_w = 1.0$
5. FOOTING AND FOUNDATION
 - A. 2500 PSI 28 DAY COMPRESSIVE STRESS HAS BEEN USED IN THE FOOTING AND FOUNDATION DESIGN. LARGER PSI HAS BEEN SPECIFIED TO INSURE DURABILITY.
6. FLOOD DESIGN DATA: NOT LOCATED IN A FLOOD HAZARD AREA.
7. RAIN LOAD DATA: RAIN INTENSITY: 1.58 in/hr (100 year storm)

MISCELLANEOUS

1. ELEVATIONS REFERENCE MAIN FLOOR ELEVATION 100'-0" = (SEE SITE PLAN) ABOVE SEA LEVEL.
2. COORDINATE OPENINGS AND EMBEDDED ITEMS NOTED ON ALL CONSTRUCTION DOCUMENTS WITH APPROPRIATE TRADES.
3. BEFORE FABRICATION, HAVE SHOP DRAWINGS REVIEWED BY ARCHITECT AND/OR ENGINEER.
4. TEMPORARILY BRACE THE STRUCTURE TO RESIST ALL LOADS OR COMBINATIONS OF LOADS UNTIL ALL PERMANENT ELEMENTS ARE IN PLACE AND ALL CONNECTIONS ARE COMPLETE.
- H. ABBREVIATIONS LIST - THIS IS A STANDARD LIST. SOME OF THE LISTED ABBREVIATIONS MAY NOT APPEAR IN THE DRAWINGS FOR THIS PROJECT.

ADH ADHESIVE	SPA SPACE/SPACES
ANC ANCHOR	STD STANDARD
ARCH ARCHITECTURE	STIF STIFFENER
ALT ALTERNATE	T&G TONGUE AND GROOVE
BLDG BUILDING	TOC TOP OF CONCRETE
BM BEAM	TOS TOP OF STEEL BEAM
BOT BOTTOM	TRANS TRANSVERSE
BRG BEARING	VERT VERTICAL
BTWN BETWEEN	W/ WITHR
CL CENTERLINE	W/O WITHOUT
CLR CLEAR	
CMU CONCRETE MASONRY UNIT	
COL COLUMN	
CONC CONCRETE	
CONN CONNECTION/CONNECTOR	
CONSTR JT CONSTRUCTION JOINT	
CONT CONTINUE/CONTINUOUS	
CONTR JT CONTRACTION JOINT	
DBA DEFORMED BAR ANCHOR	
DBL DOUBLE	
EA EACH	
ELE ELEVATION	
EW EACH WAY	
EXIST EXISTING	
EXP EXPANSION	
FDN FOUNDATION	
FTG FOOTING	
GLB GLULAM BEAM	
HCA HEADED CONCRETE ANCHOR	
HDR HEADER	
HORZ HORIZONTAL	
ISOL JT ISOLATION JOINT	
LONG LONGITUDINAL	
LSL LAMINATED STRAND LUMBER	
LVL LAMINATED VENEER LUMBER	
NFS NON-FROST SUSCEPTIBLE	
NIC NOT IN CONTRACT	
OC ON CENTER	
OSB ORIENTED STRAND BOARD	
PAR PARALLEL	
PERP PERPENDICULAR	
PSL PARALLEL STRAND LUMBER	
PT PRESSURE TREATED	
REINF REINFORCEMENT/REINFORCING	
REQ REQUIRED	
SPA SPACE/SPACES	

WOOD

1. UNLESS OTHERWISE NOTED ALL STRUCTURAL LUMBER (HEADERS, STUDS, AND BLOCKING ETC.) TO BE DOUGLAS FIR NO. 2.
2. UNLESS OTHERWISE NOTED ALL NAILING OF FRAMED LUMBER SHALL BE AS PER 2021 INTERNATIONAL BUILDING CODE TABLE 2304.10.1.
3. ALL MICROLAM BEAMS SHALL HAVE A MODULUS OF ELASTICITY OF 2.0E WITH AN $F_b = 2600$ PSI
4. ALL BOLTS IN WOOD SHALL HAVE A WASHER BETWEEN WOOD AND NUT OR BOLT HEAD.
5. UNLESS OTHERWISE NOTED ALL PLYWOOD DIAPHRAGMS AT WALLS, ROOFS AND FLOORS SHALL BE APA RATED EXTERIOR SHEATHING AND AS FOLLOWS: WALL SHEATHING 7/16" THICK ($P_i=2\%$). ALL PLYWOOD EDGES MUST BE BLOCKED WITH A MINIMUM OF 2 X 4 BLOCKING SHEATHING TO EXTEND FROM FLOOR TO ROOF. WALL NAILING (UNLESS OTHERWISE NOTED ON DRAWINGS) NAIL WITH 10d COMMON NAILS AT 4" o/c AT ALL PANEL EDGES AND 10d COMMON NAILS AT 12" o/c AT ALL OTHER INTERMEDIATE FRAMING. ROOF SHEATHING, 19/32" THICK ($P_i=40/20$) SEE PLAN. ROOF NAILING (UNLESS OTHERWISE NOTED ON DRAWINGS) NAIL WITH 10d NAILS AT 4" O.C. AT PANEL EDGES AND DIAPHRAM BOUNDARY. USE 10d COMMON NAILS AT COMMON 12 O.C. AT ALL OTHER INTERMEDIATE FRAMING. FLOOR SHEATHING, 7/8" THICK ($P_i=48/24$) APA RATED SHEATHING. FLOOR NAILING (UNLESS OTHERWISE NOTED ON DRAWINGS) WITH 10d NAILS AT 4" O.C. AT PANEL EDGES AND DIAPHRAM BOUNDARY. USE 10d NAILS AT 12 O.C. AT ALL OTHER INTERMEDIATE FRAMING.
6. PLYWOOD SHEATHING ORIENTATION: PLACE FACE GRAIN PERPENDICULAR TO ROF JOISTS AND STUDS. STAGGER 4 FOOT SIDE JOINTS. BLOCK ALL PLYWOOD PANEL EDGES WITH 2 X 4 MINIMUM FLAT.
7. OPENINGS: DOUBLE HEADER AND TRIMMER JOISTS SHALL BE PROVIDED AT OPENINGS WHERE JOISTS ARE CUT. JOIST HANGERS SHALL BE USED WHERE JOISTS FRAM INTO HEADERS OR WHERE HEADERS FRAME INTO TRIMMERS.
8. PARTITIONS: JOISTS SHALL BE DOUBLED UNDER PARTITIONS PARALLEL WITH JOISTS.
9. TOP PLATES: ALL WALLS HAVE A MINIMUM OF TWO TOP PLATES. TOP PLATES SHALL BE SPLICED BY OFFSETTING JOINTS IN THE PLATES A MINIMUM OF 2'-0" FEET AND NAILING THE LAPPED PLATES WITH 12-16d NAILS
10. ALL MEMBERS FRAMING INTO THE SIDE OF HEADER OR STUD SHALL BE ATTACHED USING METAL JOIST HANGERS.
11. PROVIDE SOLID BLOCKING BETWEEN TRUSSES AT ALL BEARING LOCATIONS.
12. PREFABRICATED WOOD PRODUCTS SHALL BE INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS. ALL PREFABRICATED WOOD JOISTS SHALL BEAR ON THE CENTER OF THE BEARING WALL. ALL PREFABRICATED WOOD PRODUCTS SHALL BE ICBO CERTIFIED.
13. ALL WOOD STUDS AT EXTERIOR WALLS, BEARING WALLS & INTERIOR SHEAR WALLS SHALL BE CONTINUOUS FROM FLOOR TO ROOF PLYWOOD. (DO NOT PUT A WALL ON TOP OF A WALL).
14. ALL GLUE LAMINATED BEAMS (GLB) SHALL BE DOUGLAS FIR (24F-V4 DF/DF). 1.8E MEMBERS SHALL MEET AITC SPECIFICATIONS.
15. ALL SIMPSON HANGERS STRAPS ETC. SHALL BE INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS.
16. TRUSS MANUFACTURER SHALL SUBMIT TRUSS ERECTION AND SHOP DRAWINGS FOR REVIEW BY ENGINEER PRIOR TO FABRICATION. SHOP DRAWINGS SHALL INCLUDE TRUSS GEOMETRY, PLAN SHOWING JOIST LOCATIONS, DIMENSIONS, MEMBER SIZES, STRESSES, REACTIONS, GRADE OF LUMBER USED.
17. ALL NAILS TO BE COMMON NAILS. FASTENERS OTHER THAN NAILS ARE NOT PERMITTED WITHOUT PRIOR APPROVAL FROM ENGINEER, AND WHERE USED MUST FURNISH STRENGTH EQUAL TO THAT OF THE SPECIFIED NAILING.
18. INSTALL SIMPSON H1 HOLDDOWN EVERY TRUSS.
19. TRUSS MANUFACTURER SHALL SUBMIT TRUSS ERECTION AND SHOP DRAWINGS FOR REVIEW BY ENGINEER PRIOR TO FABRICATION AND FINAL FRAMING. SHOP DRAWINGS SHALL INCLUDE TRUSS GEOMETRY, PLAN SHOWING JOIST LOCATIONS, DIMENSIONS, MEMBER SIZES, STRESSES, REACTIONS, GRADE OF LUMBER USED.
20. PROVIDE SOLID BLOCKING IN FLOORS TO TRANSFER COLUMN POINT LOADS THROUGH FLOOR (1- $\frac{3}{4}$ " x 9- $\frac{1}{2}$ ", 11- $\frac{1}{8}$ ", AND 14" LVL'S) TO MATCH FLOOR SYSTEM.
21. PROVIDE TRIMMERS/STUDS UNDER BEARING ENDS OF GIRDER TRUSSES & BEAMS EQUIVALENT TO THE WIDTH OF THE MEMBER SUPPORTED, OR AS SPECIFIED ON FRAMING PLANS.

STRUCTURAL STEEL

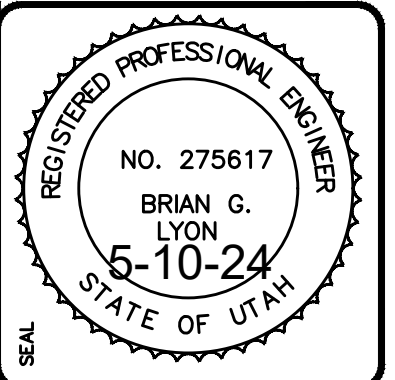
1. STEEL
 - W SHAPES: ASTM A992 GRADE 50, $F_y = 50$ KSI
 - OTHER SHAPES: ASTM A36, $F_y = 36$ KSI
 - PLATES: ASTM A36, $F_y = 36$ KSI
 - TUBES: ASTM A500 GRADE B, $F_y = 46$ KSI
2. BOLTS: ASTM A325 TYPE 1 UNCOATED, STEEL TO STEEL CONNECTIONS
3. WELDS: E70XX ELECTRODES
4. THREADED STUDS: ASTM A108 GRADE 1010 - 1020, $F_u = 60$ KSI (AWS 7.3 TABLE 7.1, TYPE B)
5. HEADED ANCHOR STUDS: ASTM A108 GRADE 1010 - 1020, $F_u = 60$ KSI (AWS 7.3 TABLE 7.1, TYPE B)
6. DETAIL, FABRICATE, AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH THE ASD, 14TH EDITION OF AISC "MANUAL OF STEEL CONSTRUCTION AND AISC CODE OF STANDARD PRACTICE."
7. STEEL TO STEEL BOLTED CONNECTIONS SHALL CONFORM TO THE CURRENT AISC "SPECIFICATIONS FOR STRUCTURAL JOINTS" USING ASTM A325 BOLTS. BOLTS SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION UNLESS NOTED OTHERWISE.
8. USE STANDARD FRAMED BEAM CONNECTIONS WITH 3/4" DIAMETER BOLTS (OR WELDED EQUIVALENT) UNLESS OTHERWISE DETAILED
9. ALL WELDERS SHALL HAVE EVIDENCE OF PASSING THE AWS STANDARD QUALIFICATION TESTS
10. WELDS SHALL NOT BE LESS THAN 1/4" CONTINUOUS FILLET, UNLESS INDICATED OTHERWISE.
11. PROVIDE SHOP DRAWINGS FOR ALL STEEL STRUCTURES TO THE OWNER AND ENGINEER FOR APPROVAL PRIOR TO FABRICATION.

SPECIAL INSPECTIONS AS REQUIRED BY IBC SECTION 1704

1. Special inspections and structural testing shall be provided by an independent agency employed by the Owner for the items identified in this section and in other areas of the approved construction plans and specifications, unless waived by the Building Official (see IBC Chapter 17).
2. The names and credentials of the Special Inspectors to be used shall be submitted to the Building Official for approval.
3. Duties of the Special Inspector:
 - a. The Special Inspector shall review all work listed below for conformance with the approved construction plans and specifications and the 2021 IBC.
 - b. The Special Inspector shall furnish special inspection reports to the EOR, Contractor, Owner and Building Official on a weekly basis, or more frequently as required by the Building Official. All items not in compliance shall be brought to the immediate attention of the Contractor for correction, and if uncorrected, to the EOR and the Building Official.
 - c. Once corrections have been made by the Contractor, the Special Inspector shall submit a final signed report to the Building Official stating that the work requiring special inspection was, to the best of the Special Inspector's knowledge, in conformance with the approved construction plans and specifications as well as the applicable workmanship provisions of the 2012 IBC.
4. Duties and responsibilities of the Contractor:
 - a. The Contractor shall submit a written statement of responsibility to the Owner and the Building Official prior to the commencement of work. In accordance with IBC 1704.4, the statement of responsibility shall contain acknowledgement of the special inspection requirements contained within this "Statement of Special Inspections".
 - b. The Contractor shall notify the responsible Special Inspector that work is ready for inspection at least one working day (24 hours minimum) before such inspection is required.
 - c. All work requiring special inspection shall remain accessible and exposed until it has been observed by the Special Inspector.
5. Please see the "Special Inspection Schedule" for the types, extents and frequency of specific items requiring special inspections and structural tests as part of this project.

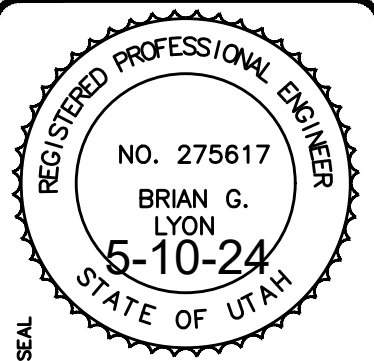
SPECIAL INSPECTION SCHEDULE

ITEMS REQUIRING SPECIAL INSPECTION	CONTINUOUS	PERIODIC	COMMENTS
FABRICATORS (IBC 1704.2.5)			
	X		If fabricator is approved, on-site inspection is not required but a certificate of completion must be provided to the B.O. (IBC 1704.2.5.2)
SOILS (IBC 1705.6)			
Verify adequate materials below footings		X	Prior to placement of concrete.
Excavation extend to proper depth and materials		X	Prior to placement of compacted fill or concrete.
Classification and testing of fill materials		X	Check classification and gradations at each lift, but not less than once for each 10,000ft ² of surface area.
Verify proper fill materials, lift thicknesses and in-place densities	X		
Verify properly prepared site and subgrade		X	Prior to placement of concrete.
CONCRETE CONSTRUCTION (IBC 1705.3)			
Reinforcing steel placement		X	Verify size, clearances, splices and proper ties.
Embedded bolts or plates	X		
Verify required design mix		X	Verify mix design meets strength and exposure requirements listed on approved plans.
Concrete placement/sampling	X		Includes sampling for air, slump, strength and temperature techniques
Inspect formwork		X	Verify shape, location and member dimensions.
Post-installed anchors	X		In accordance with approved ICC-ES Report. Periodic inspections allowed if stated in ES Report
OTHER THAN STRUCTURAL STEEL (IBC 1705.2.2)			
<i>Steel Roof & Floor Deck:</i>			
Material verification of steel deck		X	Identification markings per applicable ASTM standard
Roof and deck welds		X	Verify that welds conform to AWS D1.3.
<i>Welding of Reinforcing Steel:</i>			
Verification of weldability (except A706 bar)		X	Verify material is able to conform to AWS D14.
STRUCTURAL STEEL CONSTRUCTION (IBC 1705.2, 1705.11, 1705.12)			
<i>Prior to Welding (Table N5.4-1, AISC 360-10):</i>			
Verify welding procedures	X		
Material identification		X	Verify type and grade of material.
Welder identification		X	Verify there is a system in place to identify the welder who has welded a joint or member.
Fit-up groove welds		X	Verify joint preparation, dimensions, cleanliness, tacking and backing.
Access holes		X	Verify configuration and finish.
Fit-up fillet welds		X	Verify alignment, gaps at root, cleanliness of steel surfaces, tack weld quality and location.
<i>During Welding (Table N5.4-2, AISC 360-10):</i>			
Use of qualified inspectors		X	Verify that welders are appropriately qualified.
Control and handling of welding consumables		X	Verify packaging and exposure control.
Cracked tack welds		X	Verify welding is not over a cracked tack weld.
Environmental conditions		X	Verify wind speed is within limits as well as precipitation and temperature.
WPS followed		X	Verify items such as welding equipment settings, travel speed, welding materials, shielding gas type/flow rate, preheat applied, interpass temperature maintained, and proper position.
Welding techniques		X	Verify interpass and final cleaning, each pass is within profile limitations, and quality of each pass.
<i>After Welding (Table N5.4-3, AISC 360-10):</i>			
Welds cleaned		X	Verify that welds have been properly cleaned.
Size, length and location of welds		X	
Welds meet visual acceptance criteria		X	
Arc strikes		X	
k-area		X	
Backing & welding tabs removed		X	
Repair activities		X	
Document acceptance/rejection of weld		X	
<i>Nondestructive Testing (Table N5.5, AISC 360-10):</i>			
CJP welds (Risk Cat. II)		X	Ultrasonic testing shall be performed on 10% of CJP groove welds in butt, T- and corner joints subject to transversely applied tension loading in materials 5/16-inch thick or greater. Testing rate must be increased if > 5% of welds have unacceptable defects
Access holes (flange>2")		X	
Welded joints subject to fatigue		X	
<i>Other Steel Inspections (Table N5.7, AISC 360-10; Tables I8-1 and I10-1, AISC 341-10)</i>			
Structural steel details		X	All fabricated steel and their connections shall be inspected to verify compliance with the details shown in the approved plans.
Anchor rods/embeds supporting structural steel		X	Shall be on the premises during the placement of anchor rods/embedments. Verify diameter, grade, type, and length of element and the extent or depth of embedment prior to placement of concrete.
Reduced beam section (RBS)		X	Verify contour and finish as well as dimensional tolerances (see Table J8-1 of AISC 341).
Protected zones		X	Verify that no holes or unapproved attachments are made within the protected zone (see Table J8-1 of AISC 341).

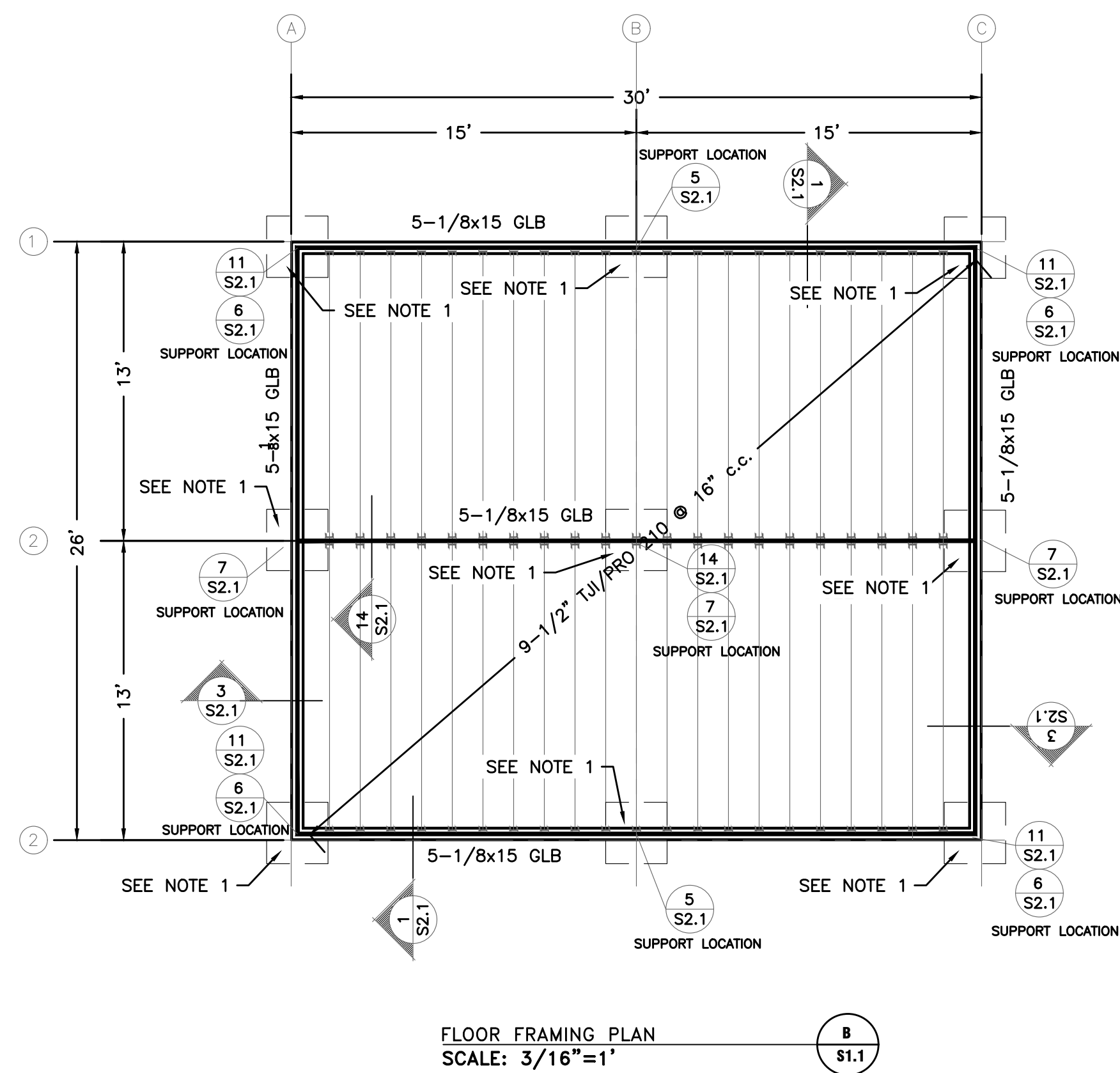
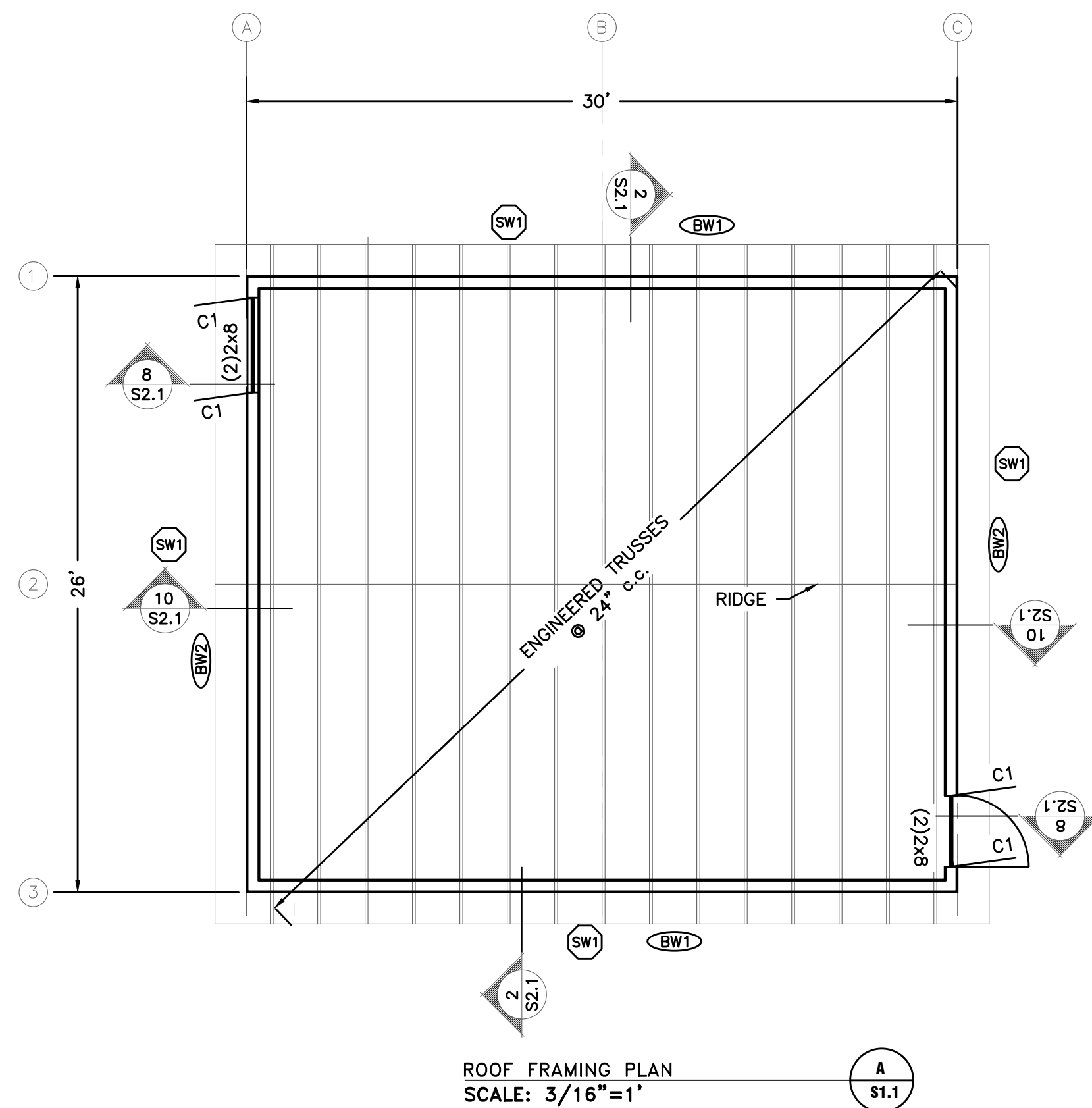


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FAST FORWARD SINGLE PORTABLE CLASSROOM
 PROJECT TITLE: SINGLE PORTABLE CLASSROOM
 DRAWING TITLE:
 DATE: May 2024
 DRAWING No. **S0.1**



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NOTE:

1. CMU MASONRY SUPPORTS AT EACH BEAM BRACKET. (TYP. OF 9 LOCATIONS) CMU SHALL REST ON FIBER-COMPOSITE MATS. BUILDING SHALL BE SECURED TO GROUND, CONCRETE, OR ASPHALT SURFACES USING SIMPSON LTT131 TENSION TIES. TENSION TIES SHALL BE SECURED TO SUPPORT SURFACE AS FOLLOWS:
 A. GROUND/SOIL-SECURE WITH MOBILE HOME AUGER TYPE ANCHOR.
 B. ASPHALT-SECURE WITH MOBILE HOME AUGER TYPE ANCHORS.
 C. CONCRETE-8/8" ANCHOR BOLTS.

SHEARWALL SCHEDULE

- (SW1) OSB SHEATHING ONE SIDE WITH 10d NAILS AT 4" o.c. (PERIMETER), 12 o.c. (FIELD)

SHEARWALL NOTES

1. ALL SHEATHING PANEL EDGES SHALL BE BLOCKED UNLESS NOTED OTHERWISE.
2. PROVIDE SAME NAILING PATTERN ABOVE AND BELOW OPENINGS AS ADJACENT SHEAR PANEL.
3. ALL EXTERIOR WALLS SHALL BE SHEARWALL "SW1" UNLESS NOTED OTHERWISE.

COLUMN SCHEDULE

MARK	TYPE	SIZE	NOTES
C1	DF-L #2	(1)2x6 TRIMMERS (1)2x6 KING STUDS	SEE DETAIL 9/S2.1

NOTE: PROVIDE TRIMMERS/STUDS UNDER BEARING ENDS OF GIRDER TRUSSES & BEAMS EQUIVALENT TO THE WIDTH OF THE MEMBER SUPPORTED, OR AS SPECIFIED ON FRAMING PLANS.

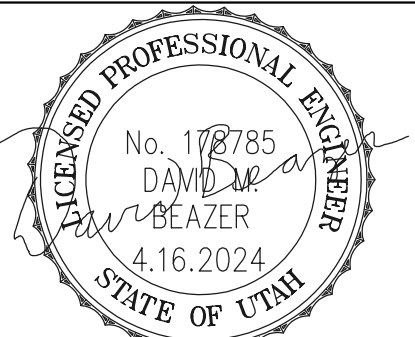
BEARING WALL SCHEDULE

MARK	TYPE	SIZE	NOTES
(BW1)	DF-L #2	2x6 @ 16" c.c.	
(BW2)	DF-L #2	2x6 @ 12" c.c.	
(BW3)	DF-L #2	2x4 @ 12" c.c. STAGGERED w/ 2x6 TOP AND BOTTOM PLT	

NO.	REVISIONS / SUBMISSIONS	DATE

PROJECT TITLE: FAST FORWARD SINGLE PORTABLE CLASSROOM
 DRAWING TITLE: FRAMING PLAN

DATE: May 2024
 DRAWING No. **S1.1**



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DATE
April 16, 2024

PROJECT TITLE
FAST FORWARD
Single Classroom
875 West 1400 North
Logan, Utah

SHEET TITLE
DIAGRAMS AND
SCHEDULES

PROJECT NUMBER

REVISIONS

SHEET NUMBER

E1.2

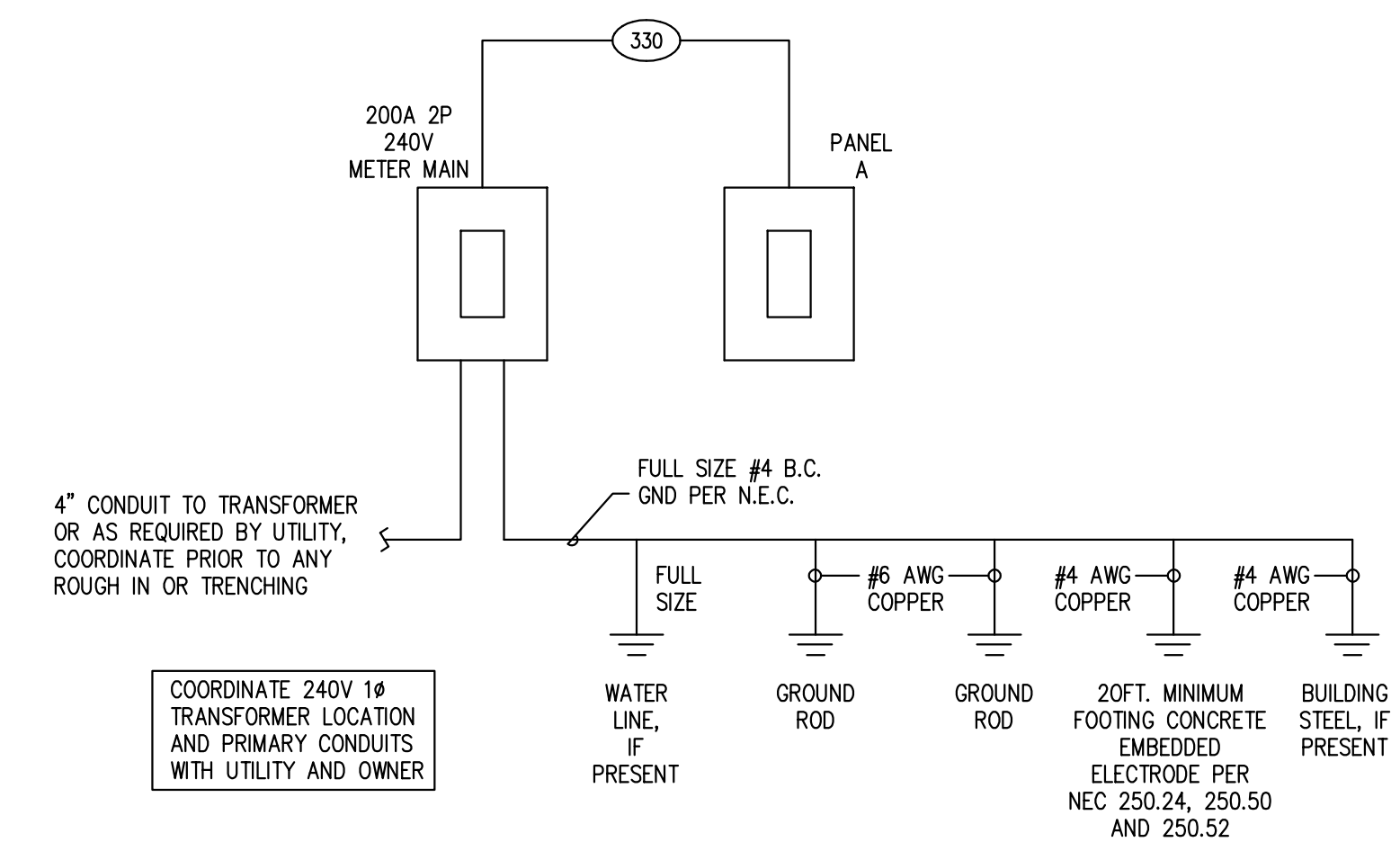
GENERAL NOTES

1. THE ELECTRICAL CONTRACTOR SHALL HAVE A COORDINATION MEETING WITH THE MECHANICAL CONTRACTOR, CONSTRUCTION SUPERINTENDENT AND ANY OTHER TRADES AS REQUIRED WITHIN SEVEN DAYS OF THE START OF THE JOB TO REVIEW CODE CLEARANCE REQUIREMENTS FOR PANELS, SWITCHES AND OTHER ELECTRICAL GEAR SPECIFICALLY FOR THIS JOB. RECORD THE MEETING IN THE SUPERINTENDENT'S LOG. REPORT UNRESOLVED CONFLICTS TO THE ARCHITECT IMMEDIATELY.
2. REFER TO MECHANICAL PLANS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT.
3. ALL ELECTRICAL INSTALLATIONS TO CONFORM TO THE LATEST N.E.C. AND LOCAL CODES.
4. CONTRACTOR SHALL VERIFY ALL SURFACE MOUNT FLUORESCENT FIXTURES CONFORM TO N.E.C. 410-76.
5. ELECTRICAL CONTRACTOR SHALL FURNISH ALL MOTOR DISCONNECTS, STARTERS, AND CONTROL STATIONS FOR MECHANICAL EQUIPMENT UNLESS THE SAME IS FURNISHED AS AN INTEGRAL PART OF THE EQUIPMENT. VERIFY WITH MECHANICAL CONTRACTOR.
6. EMT CONDUIT IS NOT ALLOWED OUT OF DOORS, SEE SPECIFICATION SECTION ON RACEWAYS.
7. MOUNTING HEIGHT OF GENERAL PURPOSE OUTLETS AND SWITCHES SHALL BE 16" TO BOTTOM AND 48" TO TOP RESPECTIVELY UNLESS OTHERWISE NOTED.
8. COORDINATE MOUNTING HEIGHT AND LOCATION OF "ALL" OUTLETS, SWITCHES, AUXILIARY EQUIPMENT, AND OTHER DEVICES WITH THE ARCHITECTURAL DRAWINGS. PRIOR TO INSTALLATION, REVIEW WITH THE GENERAL CONTRACTOR THE LOCATION OF MILLWORK AS A FINAL CHECK TO PREVENT COVERING OF ELECTRICAL ITEMS.
9. CONTRACTOR COORDINATE WITH MECHANICAL ROUTING OF CONDENSATE LINES ON MECHANICAL PADS. WIREWAYS AND DISCONNECTS REQUIRE 3FT. FRONTAL CLEARANCE AND MINIMUM 30" WIDTH CLEARANCE, OR WIDTH OF UNIT, WHICHEVER IS GREATER.
10. OUTLETS, SWITCHES AND COVER PLATES TO BE COLOR CODED TO THE WALL MOUNTED ON PER ARCHITECT, BROWN, IVORY, WHITE, OR GRAY.
11. PROVIDE SAFETY DISCONNECTS AS REQUIRED AT ALL CONNECTIONS TO MECHANICAL EQUIPMENT. FUSED PER MECHANICAL EQUIPMENT MANUFACTURERS RECOMMENDATIONS.
12. DISCONNECT SWITCHES SHOWN IN APPROXIMATE LOCATION ONLY. CONTRACTOR FIELD VERIFY LOCATION OF ALL ELECTRICAL SWITCHES AND MOTOR CONTROL FOR PROPER CODE CLEARANCE. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS WITH OTHER TRADES REGARDING PROPER EQUIPMENT CLEARANCES.
13. ALL DISCONNECT SWITCHES FOR MOTORS SHALL BE FUSED AND RATED A MINIMUM OF 10000 AIC UNLESS SHOWN OTHERWISE.
14. PANEL INDEXES SHALL INCLUDE ALL PERTINENT INFORMATION ON THE PANEL SCHEDULES INCLUDING INFORMATION ON LIGHTS AND OUTLETS. DO NOT SIMPLY COPY THE CIRCUIT DESCRIPTION COLUMN. INDEXES TO BE TYPEWRITTEN.
15. BEFORE RUNNING CONDUITS OR PLACING OUTLETS AND EQUIPMENT, THE CONTRACTOR SHALL REVIEW THE DRAWINGS AND SPECIFICATIONS OF THE OTHER TRADES SERVED BY THE CONDUIT OR OUTLETS.
16. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY WITH THE GENERAL CONTRACTOR ADEQUATE WALL DEPTH FOR MOUNTING FLUSH CIRCUIT BREAKER PANELS.
17. COORDINATE LOCATION OF EXIT LIGHTS WITH ARCHITECT.
18. THE ELECTRICAL CONTRACTOR SHALL RUN BRANCH CIRCUIT CONDUITS IN ATTIC SPACES IN A NEAT AND WORKMANLIKE MANNER SO AS TO CONSERVE OPEN SPACES AS MUCH AS POSSIBLE IN DEFERENCE TO HVAC DUCTWORK RUNS. HVAC DUCTWORK SHALL HAVE LOCATION PRIORITY OVER BRANCH CIRCUIT CONDUIT RUNS.
19. ALL CONVENIENCE OUTLETS MUST BE MOUNTED FLUSH WITH THE COVER PLATE AND SECURED FIRMLY TO THE OUTLET BOX. LOOSE OR SPONGY MOUNTED OUTLETS WILL NOT BE ACCEPTED.
20. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW ALL SWITCH LOCATIONS WITH THE GENERAL CONTRACTOR PRIOR TO ROUGH IN IN ORDER TO PREVENT ANY SWITCHES FROM BEING LOCATED ON THE WRONG SIDE OF THE DOOR.
21. INSTALL BLANK NYLON PLATES ON ALL TV, PHONE AND DATA J-BOXES. INSTALL PLATES THAT DO NOT REQUIRE STRAPS.

SERVICE ENTRANCE & FEEDER CONDUIT-CONDUCTOR SCHEDULE

TYPE	CONDUCTOR QUAN.	CONDUCTOR SIZE	COND SIZE	AMP	INSULATION
20	2	10	3/4	30	THHN, THWN, XHHW
30	3				
40	4				
28	2	8		40	
38	3		1		
48	4				
26	2	6		55	
36	3				
46	4		1 1/4		
34	3	4		70	
44	4				
33	3	3		85	
43	4				
311	3	1	1 1/2	110	
411	4		2		
310	3	1/0		150	
410	4				
320	3	2/0		175	
420	4				
330	3	3/0		200	
430	4		2 1/2		
340	3	4/0		230	
440	4				
325	3	250		255	
425	4		3		
335	3	350		310	
435	4				
350	3	500	3 1/2	380	
450	4				

PROVIDE GROUND IN ALL CONDUITS PER N.E.C. SIZE ACCORDING TO SERVICE OR EQUIPMENT GROUNDING TABLES, DEPENDING ON USE. EACH PARALLEL CONDUIT TO INCLUDED FULL SIZE GROUND.

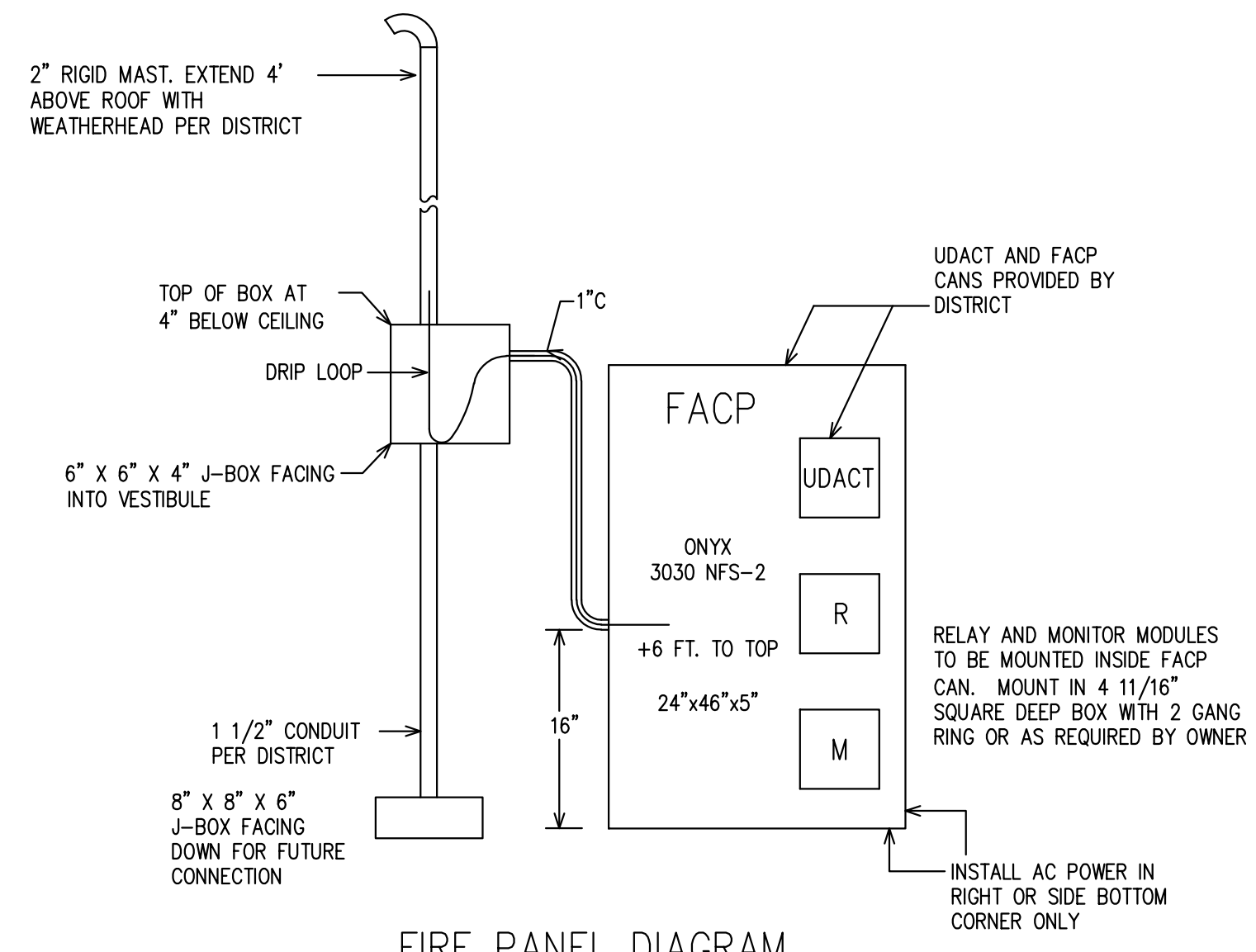


ONE LINE DIAGRAM

ELECTRICAL SYMBOLS

- WALL FIXTURE OUTLET
- FLUORESCENT FIXTURE WITH OUTLET BOX ABOVE (OR REMOTE), SEE FIXTURE SCHEDULE
- ⊕ EXIT LIGHT, WALL - FACE(S) AS SHOWN
- S SINGLE POLE SWITCH
- ⊕ DIMMER SWITCH TO MATCH LIGHT SOURCE SERVED
- ⊕ DUPLEX OUTLET
- ⊕ JUNCTION BOX
- ⊕ TELEPHONE OUTLET, WALL
- ⊕ FUSED DISCONNECT (FUSED UNLESS NOTED), 10K AIC MINIMUM
- ▬ PANELBOARD
- ◁ DATA OUTLET
- ◻ FAM FIRE ALARM CONTROL PANEL
- ◻ PULL STATION
- ◻ HORN STROBE
- ◻ HORN
- ◻ H HEAT DETECTOR
- ◻ S SMOKE DETECTOR

PANEL A		<input checked="" type="checkbox"/> NEW		TYPE N000		1 Ø 3 WIRE 120/240 VOLTS		LOCATION		MOUNTING										
		<input type="checkbox"/> EXISTING		REMARKS						<input checked="" type="checkbox"/> flush <input type="checkbox"/> surface										
										<input type="checkbox"/> 225 amp. main										
										<input checked="" type="checkbox"/> lugs <input type="checkbox"/> breaker										
No.	BRKR	A	P	CIRCUIT DESCRIPTION	L	O	M	WIRE	CIRC. LOAD	PHASE	CIRC. LOAD	WIRE	L	O	M	CIRCUIT DESCRIPTION	BRKR	No.		
1	20	1		LIGHTS					1399	8227	6828	4				ELECTRIC FURNACE	80	2		
3				SPARE							6828	6828	4					4		
5											1740	1740	8			CONDENSER	40	2		
7											500	1740	8					8		
9											500	720	12			FACP	20	1		
11																OUTLETS		10		
13											900	900	12					12		
15											540	540	12					14		
17											360	360	12			WARDROBE OUTLETS		16		
19											720	720	12			OUTLETS		18		
21											180	180	12			DATA J-BOX		20		
23											1080	1080	12			OFFICE OUTLETS		22		
25																SPACE		24		
27																		26		
29																		28		
31																		30		
33																		32		
35																		34		
37																		36		
39																		38		
41																		40		
									TOTALS		11907	11628			AIC 22000		42			
FEEDER									2 1/2" CONDUIT, 3 #3/0 WIRE PLUS #2 GROUND		AMPS/PHASE 99 97		parallel runs 1							



FIRE PANEL DIAGRAM

MECHANICAL EQUIPMENT SCHEDULE									
SYM	DESCRIPTION	LOAD	VOLTS	PHASE	FIRE ALARM SHUTDOWN	CONTROL CIRCUIT BY	* STARTER BY	SAFETY DISCONNECT BY	REMARKS
EF/1	ELECTRIC FURNACE	56.9A	240	1	NO	MECH	MECH	ELEC	
C/1	CONDENSER	14.5A	240	1	NO	MECH	MECH	ELEC	

FINAL BREAKER OR FUSE SIZE PER MANUFACTURER.
* ELECTRICAL CONTRACTOR VERIFY SINGLE SPEED OR TWO SPEED STARTERS WITH MECHANICAL DRAWINGS.

