MAES POST FARM POLE BARN -BOZEMAN, MT

ABBREVIATIONS

A/C Air Conditioning ACT Acoustical Ceiling Tile ADD'L Additional Addendum ADJ Adiacent AFF Above Finished Floo AHU Air Handling Unit AIB Air Infiltration Barrier ALT Alternative ALUM Aluminum ANOD Anodized APPROX Approximate(ly) ARCH Architect(ural) AUTO Automatic A/V Audio / Visual AVG Average Board BO Bottom Of BLDG Building BLKG Blocking BRG Bearing BSMT Basement BTWN Between BOW Bottom of Wa BUR Built Up Roof Catch Basin CB Center to Center CC CDX Exterior Grade Plywood CF Cubic Feet CH Channel CIP Cast In Place CIRC Circumference CJ Control Joint CL Centerline CLG Ceiling CLR Clear CMU Concrete Masonry Unit CO Clean Out COL Column CONC Concrete CONST Construction CONT Continuous CONTR Contractor COORD Coordinate CPT Carpet CT Ceramic Tile CTR Center CTRD Centered CW Cold Water DBL Double DEG Degree DEMO Demolish, Demolition DEPT Department DF Drinking Fountain DIA Diameter DIM Dimension DISP Dispenser Dead Load DL DN Down DR Door DS Downspout DTL Detail DWG Drawing FA Each EIFS Exterior Insulation Finish System FJ Expansion Join ELEV Elevation ELECT Electric(al) ENCL Enclosure EQ Equal EQUIP Equipment (E)/EXIST Existing EST Estimate FTR Existing to Remain EWC Electric Water Cooler EXH Exhaust FXP Expansion FX Exterior FBO Furnished By Others FD Floor Drain FDN Foundation

Fire Extinguisher Fire Extinguisher Cabinet FEC Finish(ed) Fixture FLEX Flexible FLR Floor Drain FLUOR Fluorescen Face Of Foot (Feet) FTG Footing Field Verif

FIN

FIX

FO

FT

FV

GA

GB

GC

GL

GALV

GWB

HB

HC

HD BD

HDR

HDRW

HORIZ

HM

HR

HTG

HTR

HVAC

HW

IN

INC

INFO

INSUL

INT

JST

LAV

LB

LF

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MAG

MAS

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OPNG

OPP

PERF

PERP

PKG

P/L

MO

MANUF

LVL

GLUTAM

Gauge Grab Bar General Contractor Galvanized Glass Glue Laminated Beam Gypsum Wall Board

Hose Bib Hollow Core Hard Board Header Hardware Hollow Meta Horizontal Hour Heating Heater Heating, Ventilating, Air Conditioning Hot Water

Inside Diameter Inch Include Information Insulation Interior

Joist Joint

> Length Lavatory Pound Lineal/Linear Feet Live Load Lightweight Laminated Veneer Lumber

Magnetio Manufacturer Masonrv Material Maximum Mechanical Medium Membrane Mezzanine Medium Density Fiberboard Minimum Mirror(ed) Miscellaneous Masonry Opening Mounted Metal Not Applicable Not In Contract Number Nominal Not to Scale

Outside Diameter Overhead Opening Opposite PART BD Particle Board Perforated PERIM Perimeter Perpendicular Parking Property Line

On Center

Plate PLAM Plastic Laminate PLWD Plywood PNL Panel PNT Paint PREFAB Prefabricated PREFIN Prefinished PSF Pounds per Square Foo Pounds per Square Inch PSI PSL Parallel Strand Lumber PT Point PTD Paper Towel Dispenser PVC Polyvinyl Chloride PVMT Pavement

Quantity

OTY

RAD

RCP

RD

RF:

RDWD

RECPT

REF

RFFG

RFINF

REQD

RES

REV

RM

RO

SAN

SD

SG

SHT

SIM

SIP

SNT

SS

SSD

STD

STL

Т

T&G

ΤB

TEL

TJI

ΤO

TP

ΤV

TYP

UG

UNO

VAC

VCT

VB

W

W/

WB

WC

WD

W/O

W/R

WWF

WT

YD

WP

WNDW

VERT

TOW

TSTAT

UNFIN

THRU

STOR

STRUCT

SUB FLR

SOG

SPEC

SHTG

SHWR

SF

SCHED

Riser Radius Reflected Ceiling Plan Roof Drain Redwood Regarding Receptacle Reference Refrigerator Reinforce(d), (ing) Required Resilient Revision, Revised Room Rough Opening

Sanitary Schedule Soap Dispenser Square Feet Supply Grille Sheet Sheathing Shower Similar Structual Insulated Panel Sealant Slab on Grade Specifications Stainless Steel See Structural Drawings Standard Steel Storage Structural Subfloor

Tread Tongue and Groove Test Bore Telephone Through Truss Joist Incorporated Top Of Top of Wall Toilet Paper Dispenser Thermostat Television Typical

Unfinished Underground Unless Noted Otherwise

Vacuum Outlet Vinyl Composite Tile Vertical Vapor Barrier

Width With White Board Water Closet Wood Window Without Waterproof

Water Resistant Weight Welded Wire Fabric Yard

SUMMARY OF WORK

CONSTRUCTION OF AGRICULTURAL STORAGE BARN FOR MONTANA STATE UNIVERSITY

VICINITY MAP



CONSTRUCTION DOCUMENTS - JANUARY 17, 2023

GALLATIN COUNTY / STATE OF MT

AGRICULTURAL BARN

3200 SF (5500 ALLOWED)

2 (DOOR SWING OK- 1008.1.2)

21' - 6" (40' ALLOWED)

V-B

OCCUPANT LOAD (TABLE 1004.1.2): 11 (300 GROSS PER SF)

PROJECT INFORMATION

JURISDICTION:

TYPE OF PROJECT:

FIRE ALARM SYSTEM

AREA (TABLE 503):

HEIGHT (TABLE 503):

EXITS PROVIDED:

TYPE OF CONSTRUCTION:

OCCUPANCY GROUP (USE):

AUTOMATIC SPRINKLER SYSTEM:

EXITS REQUIRED (TABLE 1015.1):

Schaff Way, Bozeman, MT

CODE INFORMATION

APPLICABLE CODES

INTERNATIONAL BUILDING CODE (IBC) INTERNATIONAL EXISTING BUILDING CODE (IEBC) ICC A117.1 – ACCESSIBILITY UNIFORM PLUMBING CODE (UPC) INTERNATIONAL MECHANICAL CODE (IMC) INTERNATIONAL FUEL GAS CODE (IFGC) NATIONAL ELECTRICAL CODE (NEC) INTERNATIONAL ENERGY CONSERVATION CODE (IECC) NTERNATIONAL FIRE CODE (IFC)

PARKING REQUIREMENTS Not Applicable

GENERAL NOTES

- DO NOT SCALE DRAWINGS. IF CRITICAL DIMENSIONS DO NOT APPEAR ON THE DRAWINGS, NOTIFY THE ARCHITEC CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO BEGINNING WORK. START O
- ACCEPTANCE OF EXISTING CONDITIONS. IF DISCREPANCIES EXIST BETWEEN DRAWINGS OR BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, NOTIFY THE ARCHITECT

2021

2021

2017

2021

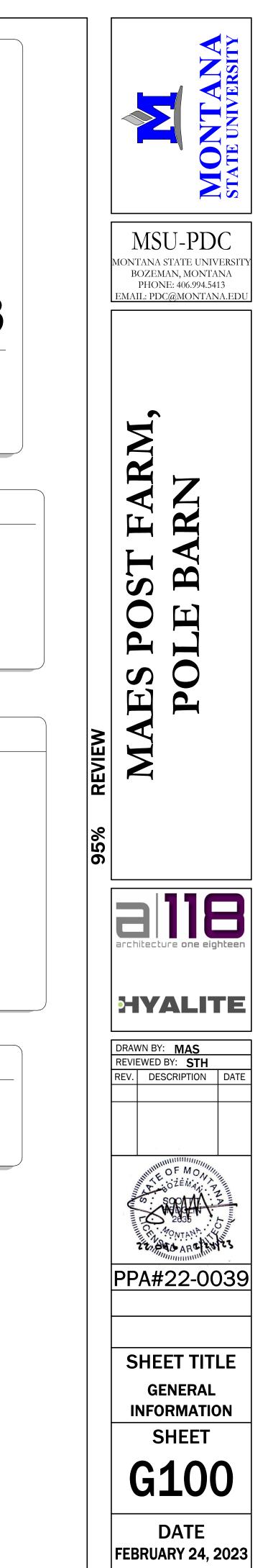
2021

2021

2020

2021

- IMMEDIATELY FOR CLARIFICATION. ALL DIMENSIONS ARE TO FACE OF FRAMING, MASONRY OR CONCRETE WALL, CENTERLINE OF COLUMN, OR FINISHED FLOOR, UNLESS
- NOTED OTHERWISE. PROVIDE ALL COMPONENTS AND ACCESSORIES NEEDED FOR A COMPLETE AND FINISHED INSTALLATION. COORDINATE WITH OWNER ON ALL "OWNER-PROVIDED" EQUIPMENT AND FURNISHINGS. COORDINATE ALL WORK WITH SUBCONTRACTORS PRIOR TO BEGINNING WORK.
- MAINTAIN A CLEAN AND SAFE WORK SITE AT ALL TIMES. ALL AREAS USED FOR CONSTRUCTION AND STAGING SHALL BE RESTORED TO THEIR EXISTING CONDITIONS UPON PROJECT COMPLETION.
- NOTIFY MSU PROJECT MANAGER IN WRITING OF ANY EXPECTED DISRUPTIONS IN SERVICE OR CHANGES IN CONSTRUCTION SCHEDULE AT LEAST 72 HOURS IN ADVANCE.
- DO NOT BLOCK ANY ROADS, SIDEWALKS OR ACCESS TO GARBAGE DUMPSTERS THE SPECIFICATIONS INCLUDED ARE AN INTEGRAL PART OF THESE CONSTRUCTION DOCUMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL INFORMATION.



PROJECT TEAM

OWNER MONTANA STATE UNIVERSITY P.O. BOX 172760, BOZEMAN, MT 59717 CONTACT: KEN CHASE, 406.994.4480

ARCHITECT ARCHITECTURE 118, LLC 115 EAST OAK STREET, BOZEMAN, MT 59715 CONTACT: MALINDA STURTZ, 406.404.1777

DRAWING INDEX

GENERAL G100 COVER / GENERAL INFORMATION

ARCHITECTURAL A100 SITE PLAN A101 FLOOR PLAN, SPECIFICATIONS, DETAILS A201 ELEVATIONS/SECTIONS

STRUCTURAL

S001 STRUCTURAL GENERAL NOTES S101 FOUNDATION PLAN S102 ROOF FRAMING PLAN S501 FRAMING DETAILS

ELECTRICAL

STRUCTURAL

HYALITE ENGINEERS

NOT APPLICABLE

MECHANICAL / COOLING NOT APPLICABLE

2304 N. 7TH AVE., SUITE L, BOZEMAN, MT 59715

CONTACT: MATT ANDERSON, 406.587.2781

ELECTRICAL NOT APPLICABLE

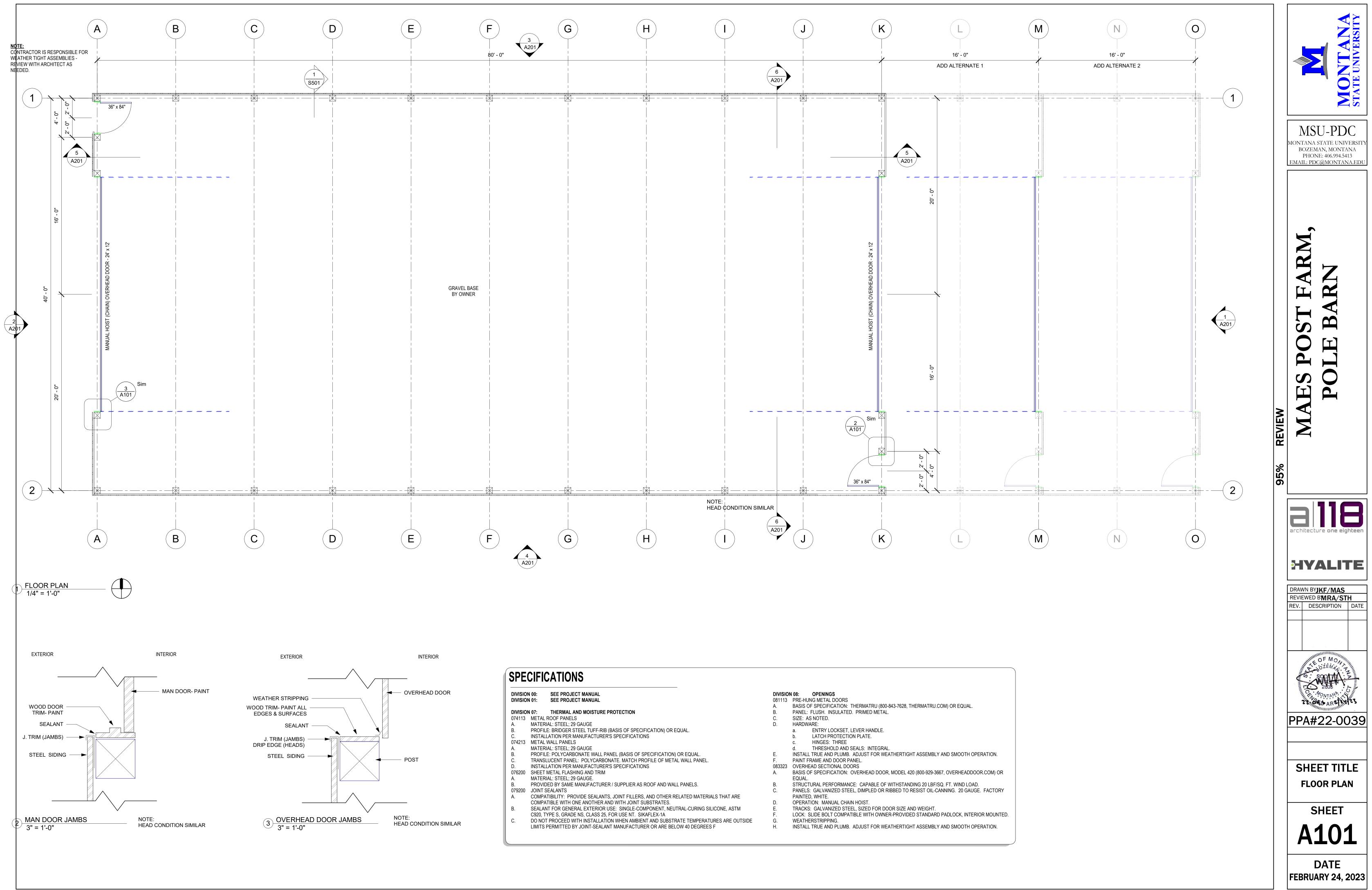
CIVIL NOT APPLICABLE

ALTERNATE

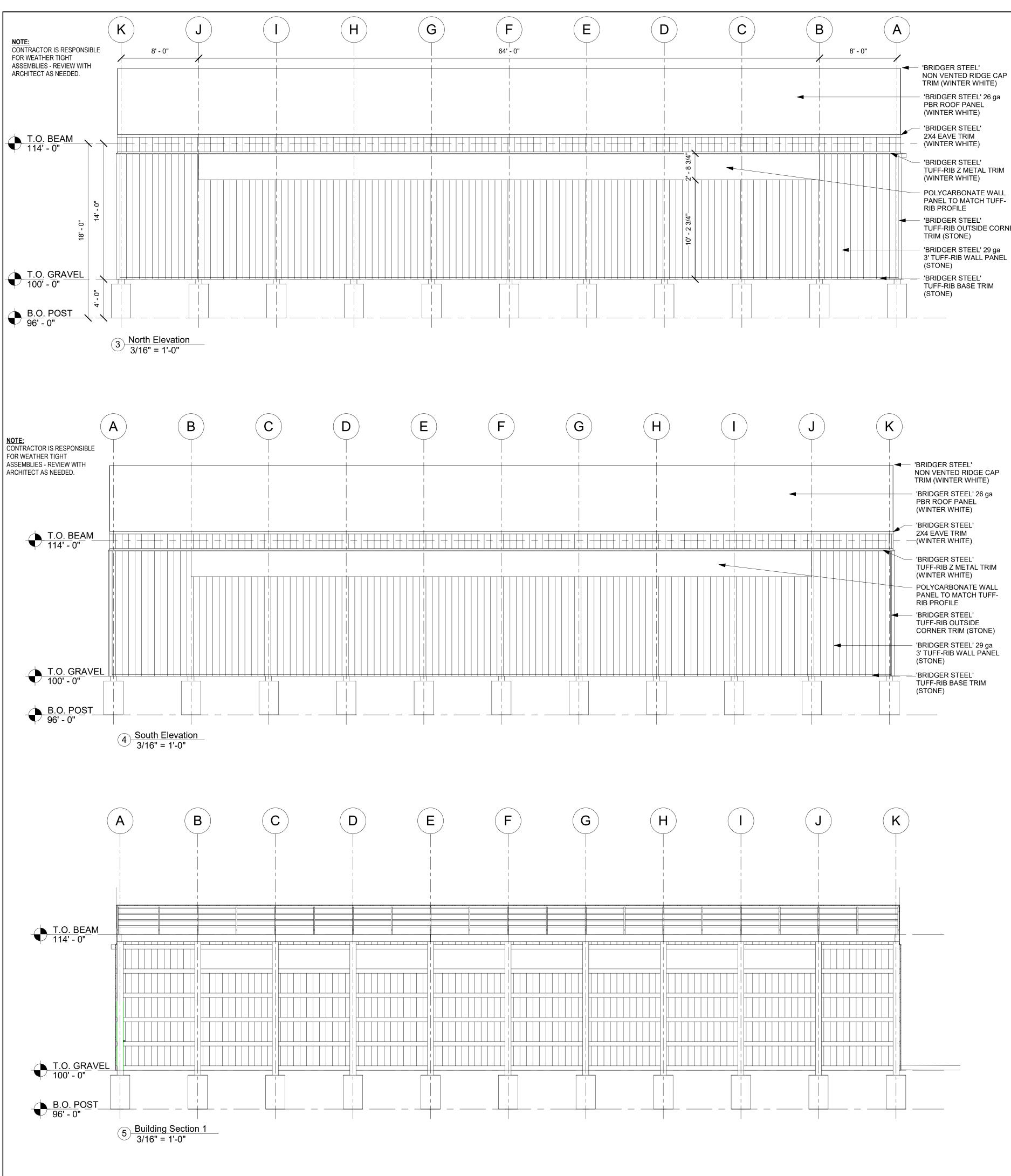
ADDITIVE ALTERNATE #1 TO INCLUDE INCREASE THE BUILDING TO 96'X40', INCLUDING GRIDS L AND M AND ALL ASSOCIATED STRUCTURE. (1) OH DOOR AND MAN DOOR TO BE LOCATED IN THE EASTERN MOST WALL ONLY. NO INTERIOR WALLS. ADDITIVE ALTERNATE #2 TO INCLUDE:

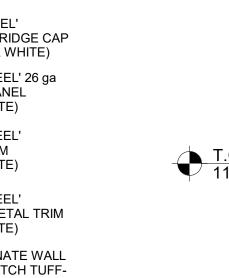
INCREASE THE BUILDING TO 112'X40', INCLUDING GRIDS N AND O AND ALL ASSOCIATED STRUCTURE. (1) OH DOOR AND MAN DOOR TO BE LOCATED IN THE EASTERN MOST WALL ONLY. NO INTERIOR WALLS.





DIVISION DIVISION		SEE PROJECT MANUAL SEE PROJECT MANUAL	DIVISION 081113 A.	N 08: OPENINGS PRE-HUNG METAL DOORS BASIS OF SPECIFICATION: THERMATRU (800-843-7628, THERMATRU.COM) (
DIVISION	N 07:	THERMAL AND MOISTURE PROTECTION	А. В.	PANEL: FLUSH. INSULATED. PRIMED METAL.
		OOF PANELS	C.	SIZE: AS NOTED.
A.		L: STEEL; 29 GAUGE	D.	HARDWARE:
B.		: BRIDGER STEEL TUFF-RIB (BASIS OF SPECIFICATION) OR EQUAL.		a. ENTRY LOCKSET, LEVER HANDLE.
C.		ATION PER MANUFACTURER'S SPECIFICATIONS		b. LATCH PROTECTION PLATE.
		/ALL PANELS		c. HINGES: THREE
Α.		L: STEEL; 29 GAUGE		d. THRESHOLD AND SEALS: INTEGRAL.
В.	PROFILE	POLYCARBONATE WALL PANEL (BASIS OF SPECIFICATION) OR EQUAL.	E.	INSTALL TRUE AND PLUMB. ADJUST FOR WEATHERTIGHT ASSEMBLY AND
В. С.		JCENT PANEL: POLYCARBONATE. MATCH PROFILE OF METAL WALL PANEL.	F.	PAINT FRAME AND DOOR PANEL.
D.	INSTALL	ATION PER MANUFACTURER'S SPECIFICATIONS	083323	OVERHEAD SECTIONAL DOORS
076200	SHEET N	IETAL FLASHING AND TRIM	Α.	BASIS OF SPECIFICATION: OVERHEAD DOOR, MODEL 420 (800-929-3667, OV
Α.	MATERIA	L: STEEL; 29 GAUGE.		EQUAL.
В.	PROVIDE	D BY SAME MANUFACTURER / SUPPLIER AS ROOF AND WALL PANELS.	В.	STRUCTURAL PERFORMANCE: CAPABLE OF WITHSTANDING 20 LBF/SQ. FT.
079200	JOINT SE	ALANTS	C.	PANELS: GALVANIZED STEEL, DIMPLED OR RIBBED TO RESIST OIL-CANNIN
Α.	COMPAT	IBILITY: PROVIDE SEALANTS, JOINT FILLERS, AND OTHER RELATED MATERIALS THAT ARE		PAINTED, WHITE.
	COMPAT	IBLE WITH ONE ANOTHER AND WITH JOINT SUBSTRATES.	D. E. F.	OPERATION: MANUAL CHAIN HOIST.
В.	SEALAN	FOR GENERAL EXTERIOR USE: SINGLE-COMPONENT, NEUTRAL-CURING SILICONE, ASTM	E.	TRACKS: GALVANIZED STEEL, SIZED FOR DOOR SIZE AND WEIGHT.
	C920, TY	PE S, GRADE NS, CLASS 25, FOR USE NT. SIKAFLEX-1A		LOCK: SLIDE BOLT COMPATIBLE WITH OWNER-PROVIDED STANDARD PADL
C.	DO NOT	PROCEED WITH INSTALLATION WHEN AMBIENT AND SUBSTRATE TEMPERATURES ARE OUTSIDE	G.	WEATHERSTRIPPING.
	LIMITS P	ERMITTED BY JOINT-SEALANT MANUFACTURER OR ARE BELOW 40 DEGREES F	Η.	INSTALL TRUE AND PLUMB. ADJUST FOR WEATHERTIGHT ASSEMBLY AND

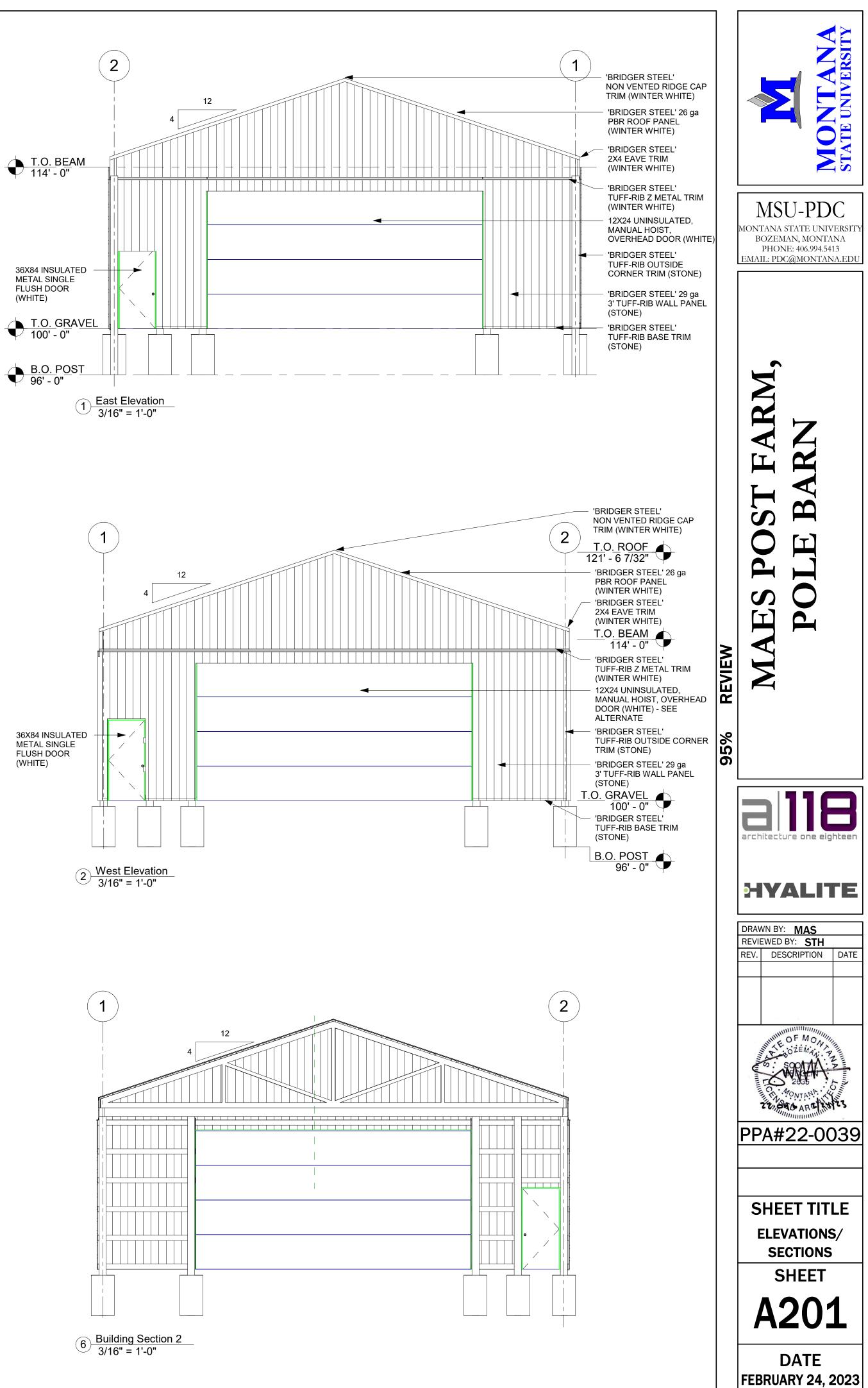




POLYCARBONATE WALL PANEL TO MATCH TUFF-**RIB PROFILE**

'BRIDGER STEEL' TUFF-RIB OUTSIDE CORNER TRIM (STONE)

 BRIDGER STEEL' 29 ga
 3' TUFF-RIB WALL PANEL 'BRIDGER STEEL' TUFF-RIB BASE TRIM



- 'BRIDGER STEEL' NON VENTED RIDGE CAP TRIM (WINTER WHITE) 'BRIDGER STEEL' 26 ga PBR ROOF PANEL

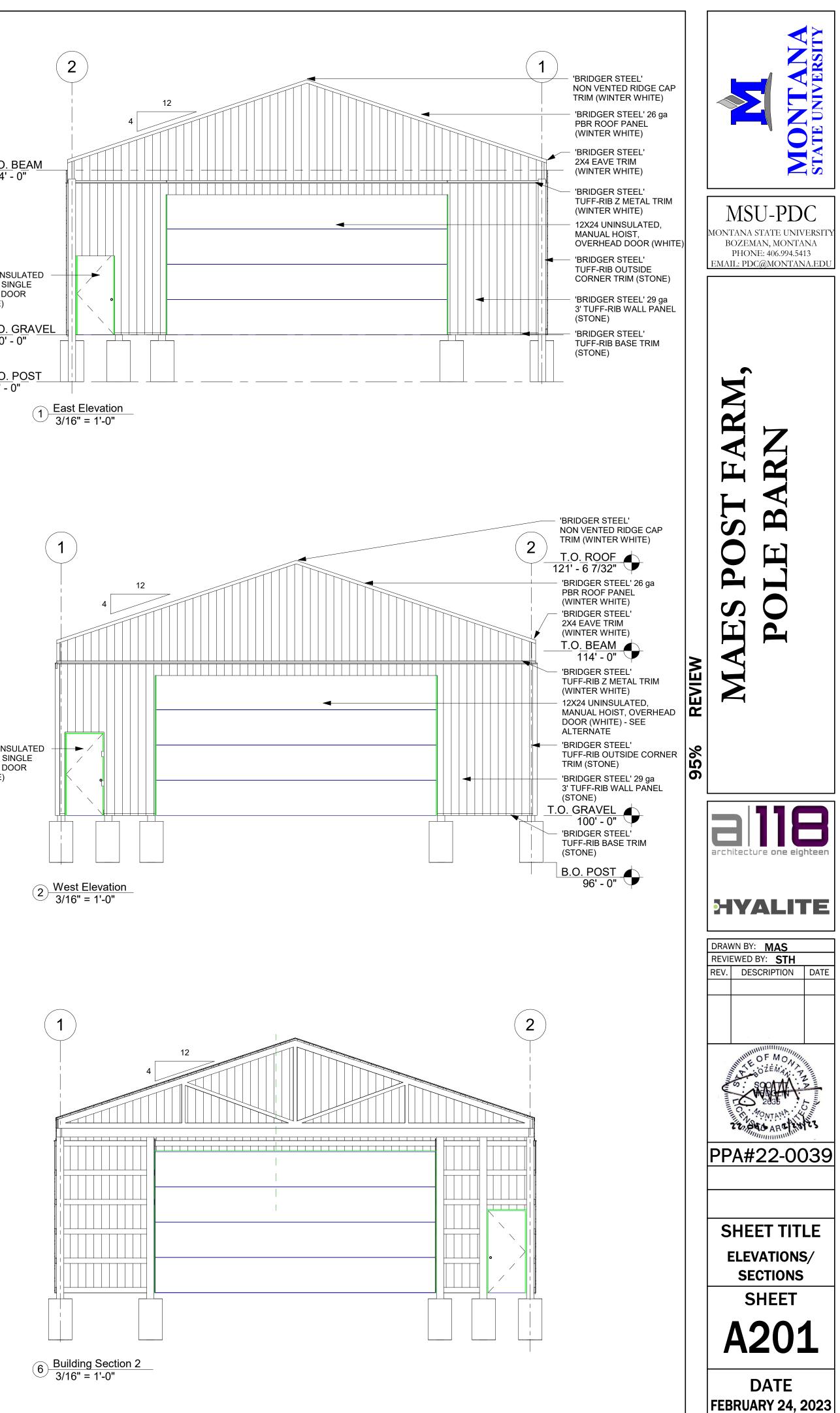
'BRIDGER STEEL' 2X4 EAVE TRIM -(WINTER WHITE)

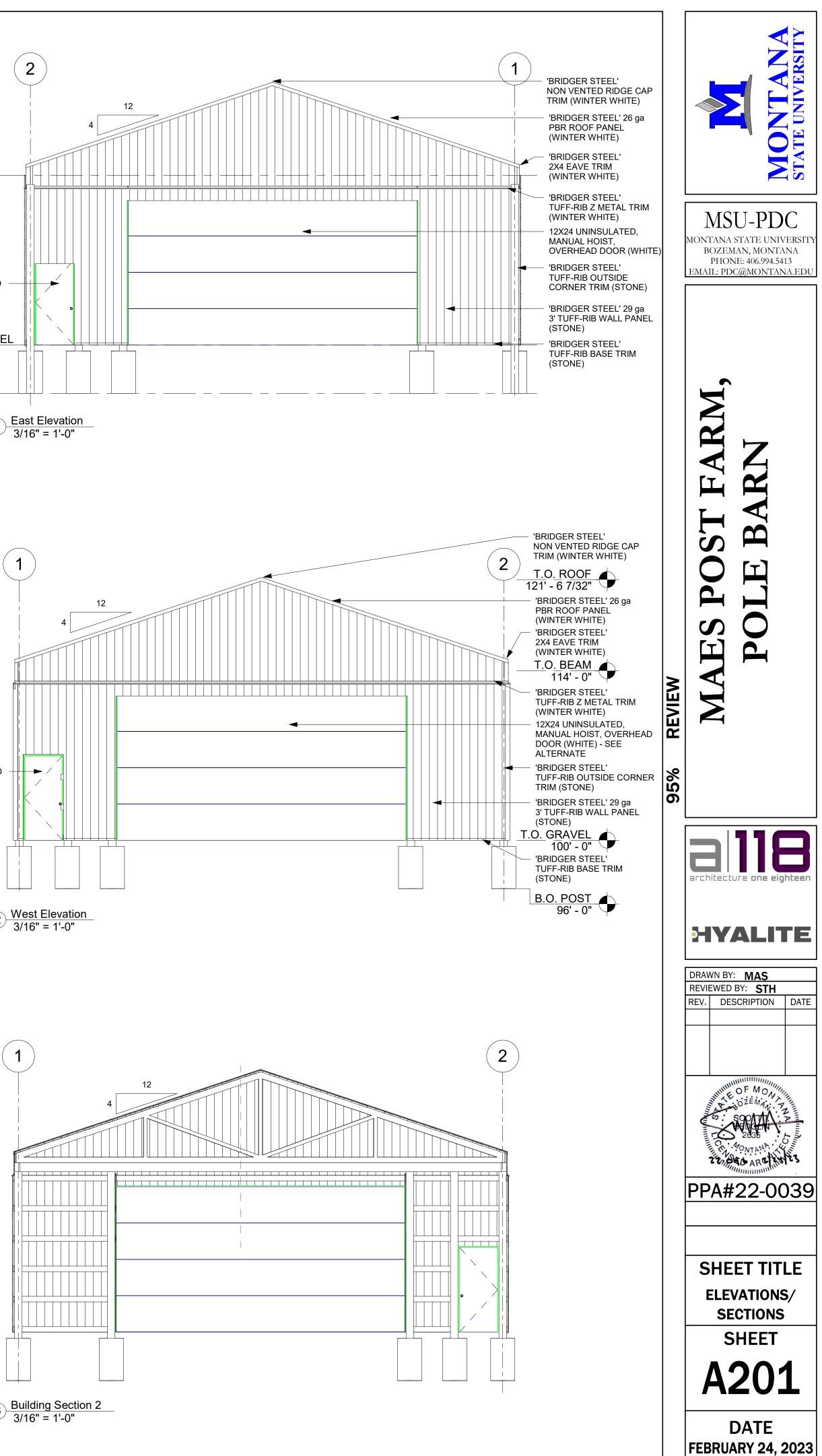
 'BRIDGER STEEL'
 TUFF-RIB Z METAL TRIM (WINTER WHITE) POLYCARBONATE WALL PANEL TO MATCH TUFF-**RIB PROFILE**

TUFF-RIB OUTSIDE CORNER TRIM (STONE)

'BRIDGER STEEL' 29 ga
 3' TUFF-RIB WALL PANEL

TUFF-RIB BASE TRIM





. GO'	CTURAL GENERAL NOTES AR	E INTENDEI	D TO SUPPL	ANT PROJECT S	SPECIFICATIONS.
	VERNING CODES				
	 INTERNATIONAL BU AMERICAN CONCRE 				
	3. AMERICAN INSTITU	TE OF STEE	L CONSTRU	CTION (AISC), 1	5TH EDITION. CTION (NDS), 2018 EDITIO
	5. AMERICAN INSTITU ⁻ 6. NATIONAL FRAME B	TE OF TIMBI	ER CONSTRI	JCTION (AITC),	6TH EDITION.
. DE	SIGN LOADS AND CRITERIA				
	1. DEAD LOAD CRITERIA:		FLOOR	NA PSF	
			ROOF	10 PSF	
	2. LIVE LOAD CRITERIA:		FLOOR ROOF	NA PSF 20 PSF	
	3. SNOW LOAD CRITERIA:			Pf = 40 PSF	
	o. onow love on the new .			l = 0.8	
	4. WIND CRITERIA:		BUILDING CA RISK CATEG INTERNAL PI 33 PSF MININ		LOSED RE C FFICIENT: 0.18 ± RNAL WALL COMPONEN ⁻
	5. SEISMIC CRITERIA:	:	I = 1.00 / RISI R = 1.5 DESIGN CAT LATERAL FO	/ SD1 = 0.325 K CATEGORY I EGORY D RCE RESISTING	
			-	RED TIMBER CO	-
	6. FOOTING BEARING PRES			I APPROVED SU	JBGRADE, SEE D.1
	7. SOIL FRICTION COEFFICI		0.50		
	8. LATERAL SOIL PRESSURI		60 PCF AT-R	EST EQUIVALE	T FLUID PRESSURE NT FLUID PRESSURE
					ENT FLUID PRESSURE
	9. FROST DEPTH:		48 INCHES		
. CO	NCRETE				
	PERFORM CONCRETE WOR "STANDARD SPECIFICATION REQUIREMENTS ARE INDIC	N FOR STRL			
	MINIMUM REINFORCING BA UNFORMED SURFACES FORMED SURFACES 2" FOR #6 AN	R COVER: CES EXPOS S EXPOSED	TO EARTH		
	1 1/2" FOR # FORMED SURFACES 1 1/2" FOR # 1 1/2" FOR #	3-#5 S NO EXPOS 6 AND LARC	SED TO EAR	TH OR WEATHE	R:
	SPLICE REINFORCING BARS DRAWINGS. PLACE MECHA LAPPING AT LEAST ONE PA MINIMUM.	NICAL CON	INECTORS W	HERE SHOWN.	SPLICE WWF SHEETS E
	ADD #5x5'-O" DIAGONAL EA DEPTH AT ALL RE-ENTRAN			NG CORNERS A	
	SECURE ALL REINFORCING CONCRETE PLACEMENT. CONCRETE PLACEMENT. CONCRETE PLACEMENT.		G WWF, IN P	SS SHOWN OTH OSITION WITH (HERWISE. CHAIRS BEFORE
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D. FOUNDATIONS

- FOUNDATIONS HAVE BEEN DESIGNED BASED REPORT HAS BEEN PROCIDED.
- PLACE FOOTINGS ON COMPACTED NATURAL GRAVELY SOILS OR ENGINEERED FILLPLACED OVER UNDISTURBED NATURAL GRAVELY SOILS. ENGINEERED FILL MATERIAL SHALL BE MINUS 3" GRANULAR, APPROVED BY THE GEOTECHNICAL ENGINEER. PLACE ENGINEERED FILL IN UNIFORM LIFTS AND COMPACT TO 98% STANDARD PROCTOR ACCORDING TO ASTM D698. PLAN LIMITS OF ENGINEERED FILL MUST EXTEND AT LEAST 2'-0" BEYOND ALL FOOOTING EDGES. IF ENCOUNTERED, EXISTING FILL SHALL BE REMOVED TO AN APPROVED DEPTH AND REPLACED WITH ENGINEERED FILL AS DESCRIBED ABOVE, PLACED AND COMPACTED AS DESCRIBED ABOVE.
- PLACE INTERIOR SLABS ON GRADE ON 4" OF MINUS 3/4" DRAINAGE COURSE, GRADED FOR COMPACTION WITH LESS THAN 12% PASSING THE #200 SIEVE PLACE DRAINAGE COURSE OVER A VAPOR RETARDER ON NATURAL SOILS OR ENGINEERED FILL PLACED OBER UNDISTURBED NATURAL SOILS. COMPACT SOILS UNDER SLABS (ABOVE FOOTINGS) TO 95% STANDARD PROCTOR ACCORDING TO ASTM D698
- DO NOT BACKFILL WALLS WITH UNBALANCED SOIL LEVELS UNLESS ADEQUATELY 4. SHORED OR PERMANENT FLOOR PLATES ARE INSTALED AND CONNECTIONS ARE COMPLETE - THIS DOES NOT INCLUDE RETAINING WALLS. THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SHORING DESIGN AND INSTALLATION.
- BACKFILL AND COMPACT BURIED WALLS OR GRADE BEAMS EVENLY ON EACH SIDE OT AVOID UNBALANCED LOADS. COMPACT LAYERS TO 95% STANDARD PROCTOR ACCORDING TO ASTM D698 ECEPT 92% UNDER NON-PAVED AREAS.
- ALWAYS PROVIDE POSITIVE SURFACE WATER DRAINAGE AWAY FROM THE STRUCTURE.

E. WOOD FRAMING

- PREFABRICATED WOOD TRUSSES SHALL COMFORM TO THE TRUSS PLATE INSTITUTE DESIGN SPECIFICATION FOR METAL-PLATE CONNECTED WOOD TRUSSES (ANSI/TPI 1). FRAMING PLAN(S) AND ANY ADDITIONAL LOADS REQUIRED. TRUSS DESIGN SHALL BE DRAWINGS SHALL BEAR THE ENGINEERS SIGNATURE AND SEAL.
- THE DRAWINGS ARE THE PRODUCTS OF TRUSS JOIST AND ARE DESIGNATED BY THE TO BEHAVE AS A SYSTEM. WHETHER SHOWN OR NOT, PROVIDE ACCESSORY ITEMS COMPLETE SYSTEM. FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION AND USE.
- FRAMING CONNECTORS, ANCHORS, AND HANGERS SHOWN ON THE DRAWINGS ARE PRODUCTS OF SIMPSON STRONG-TIE AND ARE DESIGNATED BY MANUFACTURER'S INSTALLATION AND USE.
- 3.1. USP PRODUCTS MAY BE USED BASED ON THE REFERENCE NUMBER IDENTIFIED ON THEIR PRODUCTS. THE LOWER OF THE TWO MANUFACTURERS DESIGN LOADS WERE CONSIDERED DURING ENGINEERING DESIGN
- BEFORE INSTALLATION.
- 2-2x8 WITH PLATES TOP AND BOTTOM MATCHING STUD WIDTH. INSULATE ALL BOX HEADERS.
- OF 16d NAILS @ 6" UNLESS INDICATED OTHERWISE.
- INSTALL WOOD SHEATHING PANELS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS. BLOCKING AS INDICATED. (SEE SHEARWALL SCHEDULE AND FRAMING PLAN(S) FOR CRITICAL NAILING.) NAIL HEADS SHALL NOT PENETRATE BEYOND A FLUSH CONDITION WITH FACE OF SHEATHING.
- NAILING REQUIREMENTS NOT SPECIFIED ON THE DRAWINGS SHALL BE IN ACCORDANCE WITH THE FASTENING SCHEDULE, TABLE 2304.9.1 IN THE IBC.
- 2" MINIMUM CLEARANCE FROM FRAMING MATERIALS TO MASONRY @ ALL TRUE MASONRY

FLUES.

10. FASTENERS IN PRESERVATIVE TREATED & FIRE RETARDENT-TREATED WOOD SHALL BE HOT OR STAINLESS STEEL PER IBC 2304.9.5

	DIPPED ZINC-COATED GALVA	NIZED STEEL OF
VOOD	MATERIALS	
	BOLTS:	ASTM A307; WO
2.	ADHESIVE ANCHORS:	'SIMPSON' SET
5.	THREADED ROD: TIMBER SCREW: LOG SCREW: LAG SCREW: METAL FRAMING SCREW: GLUE LAMINATED TIMBER: MICROLAM LVL:	ASTM A307 GR GRK RUGGED
·.).	LOG SCREW:	OLYMPIC LOG ASTM A307 GR
).	METAL FRAMING SCREW:	ASTM C1513
5.).	GLUE LAMINATED TIMBER: MICROLAM LVL:	iLEVEL 1.9E MI
0.	TIMBERSTRAND LSL:	iLEVEL 1.55E T ESR-1387
1.	TIMBERSTRAND LSL RIM:	iLEVEL 1 1/4" TI EQUIVALENT, I
	PARALLAM PSL:	iLEVEL 2.0E PA
3.	DIMENSIONAL LUMBER:	GRADED BY W (WWPA) OR WI (WCLIB) DOUG
4	WOOD SHEATHING:	BLOCKING, UN

14.	WOOD SHEATHING:	
15.	HEAVY TIMBER:	

16. LOGS:

(WALL LOG 61) SHEATHING: (AT HORIZONTAL DIAPHRAGM) LAY PLYWOOD PANELS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS. STAGGER ALL END JOINTS AND PLACE AS INDICATED IN "CASE 1" OF IBC TABLE 2306.3.1

LOCATION	MATERIAL
ROOF	1/2" 5-PLY PLYWOOD OR OSB 32/16 MIN. SPAN RATING UN-BLOCKED AT PANEL JOINTS

**SEE SHEARWALL SCHEDULE AND FRAMING PLANS FOR SPECIFIC NAILING, SHEATHING AND FRAMING REQUIREMENTS AT VERTICAL WALLS.

** SEE SHEARWALL GENERAL NOTES

D UPON ASSUMED	VALUES, NO SOILS	

TRUSSES SHALL BE DESIGNED BY THE MANUFACTURER TO SUPPORT ALL SUPERIMPOSED LOADS INDIATED AND LOADS TRANSFERRED BY FRAMING MEMBERS INDICATED ON ROOF PERFORMED BY AN ENGINEER LICENSED IN THE PROJECTS JURISDICTION. TRUSS SHOP

ENGINEERED WOOD PRODUCTS (WOOD I-JOISTS & PARALLEL STRAND LUMBER) SHOWN ON MANUFACTURER'S STANDARD PRODUCT NUMBERS. THE INTENT OF THE DESIGN IS FOR THESE ITEMS TO BE ATTACHED TO EACH OTHER AND TO THE SURROUNDING STRUCTURE (BLOCKS, CLIPS, STIFFENERS, STRAPS, ETC..) DESIGNED BY THE MANUFACTURER, FOR A

STANDARD PRODUCT NUMBERS. FOLLOW ALL MANUFACTURER'S REOMMENDATIONS FOR

ALL LAG BOLTS SHALL HAVE LEAD HOLES DRILLED THE SAME DIAMETER FOR THE SHANK AND 50% OF THE SHANK DIAMETER FOR THE THREADED PORTION. LUBRICATE THREADS

PROVIDE HEADERS FOR ALL OPENINGS AS SCHEDULED. WHERE NOT INDICATED. INSTALL

DOUBLE TOP PLATES SHALL HAVE A MINIMUM LAP LENGTH OF 4 FEET FASTEN WITH 2 ROWS

STAGGER ALL END JOINTS 32" MINIMUM, FASTEN PANELS TO SUPPORTING FRAMING AND

OOD OR WOOD TO STEEL CONNECTIONS OR T-XP, ICC-ES ESR-2508, ANCHOR AS SPECIFIED

RADE A) STRUCTURAL SCREW (RSS), ICC ES ER-5883 HOG RADE A OR EQUIVALENT

00.1, COMBINATION SYMBOL 24F-V4-DF/DF IICROLAM LVL OR EQUIVALENT, ICC ES ESR-1387 TIMBERSTRAND LSL OR EQUIVALENT, ICC ES

TIMBERSTRAND LSL RIM BOARD OR ICC ES ESR-1387

ARALLAM PSL OR EQUIVALENT, ICC ES ESR-1387 VESTERN WOOD PRODUCTS ASSOCIATION VEST COAST LUMBER INSPECTION BUREAU

G-FIR #2 & BETTER FOR STUDS, PLATES, & NLESS NOTED OTHERWISE. AMERICAN PLYWOOD ASSOCIATION (APA) RATED

SHEATHING SUITED FOR SPAN & USE. GRADED BY WESTERN WOOD PRODUCTS ASSOCIATION

(WWPA) OR WEST COAST LUMBER INSPECTION BUREAU (WCLIB). DOUG-FIR # 2 UNLESS NOTED OTHERWISE LOG WALL STACKS - DOUGLAS FIR - LARCH TPI WALL LOG 40 BEAMS AND COLUMNS - DOUGLAS FIR - LARCH TPI SELECT

NAILING

8d AT 6" O.C. AT PANEL EDGES, 8d AT 12" O.C. AT INTERMEDIATE SUPPORTS

F. MISCELLANEOUS

2.2

- COORDINATE OPENINGS AND EMBEDDED ITEMS IN CONCRETE WORK WITH ALL TRADES.
- NOTIFY ENGINEER OF ANY DISCREPANCIES DISCOVERED WITH OTHER TRADES
- CONSTRUCTION LOADS SHALL NO T BE GREATER THAN THE DESIGN LOADS INDICATED IN B.1 UNLESS REVIEWED AND APPROVED BY THE ENGINEER.
- EQUIPTMENT OPENINGS INDICATED ARE FOR REFERENCE ONLY. COORDINATE 4 EXACT LOCATIONS, DIMENSIONS AND DETAILS WITH EQUIPMENT MANUFACTURER.
- TEMPORARILY BRACE THE STRUCTURE TO RESIST ALL LOADS OR COMBINATIONS 5. OF LOADS UNTIL ALL PERMANENT ELEMENTS ARE IN PLACE AND ALL CONNECTIONS ARE COMPLETE AS SHOWN.

G. MANUFACTURED WOOD TRUSSES

- 1. MAXIMUM TRUSS SPACING: 48" O.C.
- TRUSS LOADING UNLESS OTHERWISE NOTED ON THESE DRAWINGS: 2 2.1 TOP CHORD SNOW LOAD
 - 2.1.1. FLAT ROOF SNOW LOAD = 40 PSF
 - 2.1.2. BALANCED SNOW LOAD = 40 PSF 2.1.3. UNBALANCED SNOW LOAD = SHALL BE APPLIED
 - TOP CHORD DEAD LOAD = 10 PSF 2.3 BOTTOM CHORD DEAD LOAD = 7 PSF
- CONNECTOR PLATES SHALL BE ICBO APPROVED WITH A MINIMUM SIZE OF 3"x5". ALL CHORD MEMBERS SHALL HAVE LUMBER GRADE STAMPS; ALL WEB MEMBERS FROM THE SAME LUMBER GRADE WITH AT LEAST 50% OF THE WEB MEMBERS BEARING A GRADE STAMP
- TRUSS DESIGN, ERECTION PLANS, AND SHOP DRAWINGS SHALL BE SIGNED AND 4. SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED.
- SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER FOR 5. APPROVAL. CONTRACTOR SHALL ALLOW A MINIMUM OF TWO WEEKS FOR REVIEW OF SHOP DRAWINGS. SHOP DRAWINGS SHALL INCLUDE, FOR EACH TYPE OF TRUSS, DIMENSIONS AND CONFIGURATIONS, NOMINAL LUMBER SIZE AND GRADE, SPECIFICATIONS FOR CONNECTOR PLATES USED, SIZE AND LOCATION OF EACH CONNECTOR AT EACH JOINT AND AMOUNT OF CAMBER IF REQUIRED. DESIGN CALCULATIONS, SHOP DRAWINGS AND ERECTION PLANS SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION.
- ALL NON-BEARING WALLS BELOW PREFABRICATED TRUSSES SHALL BE SLIP 6. CONNECTED TO ALLOW FOR POTENTIAL TRUSS DEFLECTION AND UP LIFT.
- GENERAL CONTRACTOR SHALL BE AWARE THAT THE TRUSS MANUFACTURER MAY REQUIRE TRUSS ERECTION, WEB AND LATERAL BRACING MEMBERS INDEPENDENT OF THESE DRAWINGS. CONTRACTOR SHALL SUPPLY AND SINSTALL BRACING AS SPECIFIED UNLESS OTHERWISE AGREED TO BE SUPPLIED BY THE TRUSS MFG.
- HANDLING, INSTALLATION AND BRACING OF ALL TRUSSED SHALL FOLLOW TPI PUBLICATION HIB-91. TRUSS MANUFACTURER SHALL FULLY COORDINATE TRUSS BRACING REQUIREMENTS WITH THE CONTRACTOR PRIOR TO INSTALLATION.
- TRUSS MANUFACTURER RESPONSIBLE FOR BLOCKING @ MANUFACTURED WOOD TRUSS BEARING.

H. SHOP DRAWINGS AND SUBMITTALS

- SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS LISTED AND 1. ANY ADDITIONAL ITEMS REQUIRED BY THE ARCHITECTURAL SPECIFICATIONS. CONSTRUCTION DOCUMENTS PROVIDED BY THE ENGINEER OF RECORD SHALL NOT BE REPRODUCED FOR USE AS SHOP DRAWINGS UNLESS APPROVED IN WRITING BY THE ENGINEER. ANY SHOP DRAWINGS REPRODUCED FROM THE ENGINEERING DRAWINGS WILL BE RETURNED WITHOUT REVIEW. 1.1 MANUFACTURED TRUSSES
- THE GENERAL CONTRACTOR SHALL REVIEW AND STAMP ALL SHOP DRAWINGS AND PRODUCT DATA FROM CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS PRIOR TO SUBMITTAL TO THE ENGINEER OR ARCHITECT OF RECORD. ANY SHOP DRAWINGS OF PRODUCT NOT REVIEWED AND STAMPED BY THE GENERALCONTRACTOR WILL BE RETURNED WITHOUT REVIEW. THE CONTRACTO SHALL CLOUD OR FLAG ALL ITEMS NOT IN ACCORDANCE WITH CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR FINAL VERIFICATIOIN AND COORDINATION OF ALL DIMENSIONS.
- ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM THE ORIGINAL CONTRACT DRAWINGS SHALL BE CLOUDED BY THE MANUFACTURER OR FABRICATOR. ANY CHANGES. SUBSTITUTIONS, OR DEVIATIONS WHICH ARE NOT CLOUDED OR FLAGGED BY SUBMITTING PARTIES, SHALL NOT BE CONSIDERED ALLOWED AFTER THE ENGINEER'S REVIEW, UNLESS NOTED ACCORDINGLY BY THE ENGINEER OF RECORD.
- THE SHOP DRAWINGS DO NOT REPLACE THE ORIGINAL CONTRACT DRAWINGS. 4. ITEMS OMMITTED OR SHOWN INCORRECTLY AND WHICH ARE NOT NOTED AS ALLOWED BY THE ENGINEER OF RECORD OR ARCHITECT ARE NOT TO BE CONSIDERED CHANGES TO THE ORIGINAL CONTRACT DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE FINAL COORDINATION BEWEEN THE SHOP DRAWINGS AND CONSTRUCTION DOCUMENTS. ANY ITEMS OMITTED OR SHOWN INCORRECTLY MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ORIGINAL CONTRACT DRAWINGS UNLESS A CHANGE IS APPROVED IN WRITING BY THE ENGINEER FO RECORD.
- ALL ENGINEERING DESIGNS AND LAYOUTS PERFORMED BY OTHERS SHALL BE 5. SEALED BY A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED.
- REVIEW OF SHOP DRAWINGS IS FOR CONFORMITY TO DESIGN. RESPONSIBILITY 6. FOR COORDINATION AND COMPLETENESS SHALL REST WITH THE CONTRACTOR.
- 7 SHOP DRAWINGS WILL BE RETURNED FOR RESUBMITTAL IF MAJOR ERRORS ARE FOUND DURING REVIEW. ENGINEER OF RECORD IS NOT RESPONSIBLE FOR PROJECT DELAYS CAUSED BY INCORRECT OR INCOMPLETE SUBMITTALS.
- NO MORE THAN ONE SET OF REPRODUCTION PRINTS AND ONE SET OF REPRODUCIBLES WILL BE REVIEWED FOR ANY INDIVIDUAL SUBMITTAL. ADDITIONAL COPIES CAN BE PROVIDED TO THE CONTRATOR AT COST FOR THE REPRODUCTIONS, OR MASKS MAY BE TRANSFERRED TO ADDITIONAL SETS AT AN HOURLY RATE. FOR EACH SUBMITTAL, ONLY THE FRONT SHEET WILL BE STAMPED FOR THE OVERALL CONFORMANCE OF THE REVIEW. INDIVIDUAL SHEETS WILL HAVE APPLICABLE NOTES AND MARKS FOR INDIVIDUAL ITEMS OR REVIEW.

I. WOOD SPECIES SCHEDULE

- MEMBER PLATES
- NAILERS
- GIRTS
- TIMBER

GL BEAMS

LEAD HOLE DIAMETER FOR LAG BOLTS & THROUGH BOLTS					
BOLT	BOLT HOLE SHANK DIA.		THROUGH BOLT		
DIAMETER	DIAMETER	LODGEPOLE PINE	DOUGLAS FIR		
1/4"	1/4"	3/32"	5/32"	5/16"	
5/16"	5/16"	5/32"	3/16"	3/8"	
3/8"	3/8"	3/16"	1/4"	7/16"	
1/2"	1/2"	1/4"	5/16"	9/16"	
5/8"	5/8"	5/16"	7/16"	11/16"	
3/4"	3/4"	7/16"	1/2"	13/16"	
1"	1"	5/8"	3/4"	1 1/16"	

TOP PLATES, LAP

CONTINUC CONTINUOUS CEILING J

CEILING JOIST TO CEILING JOIST TO

REBAR LAP SCHEDULE - GRADE 60					
BAR #		MASONRY			
DAR #	3000 PSI	4000 PSI	5000 PSI	MASONRT	
#3	17"	15"	13"	18"	
#4	22"	19"	17"	24"	
#5	28"	24"	22"	30"	
#6	33"	29"	26"	36"	
#7	48"	42"	38"	53"	
#8	55"	48"	43"	60"	
#9	62"	53"	48"	68"	
#10	69"	60"	53"	75"	
#11	76"	66"	59"	83"	

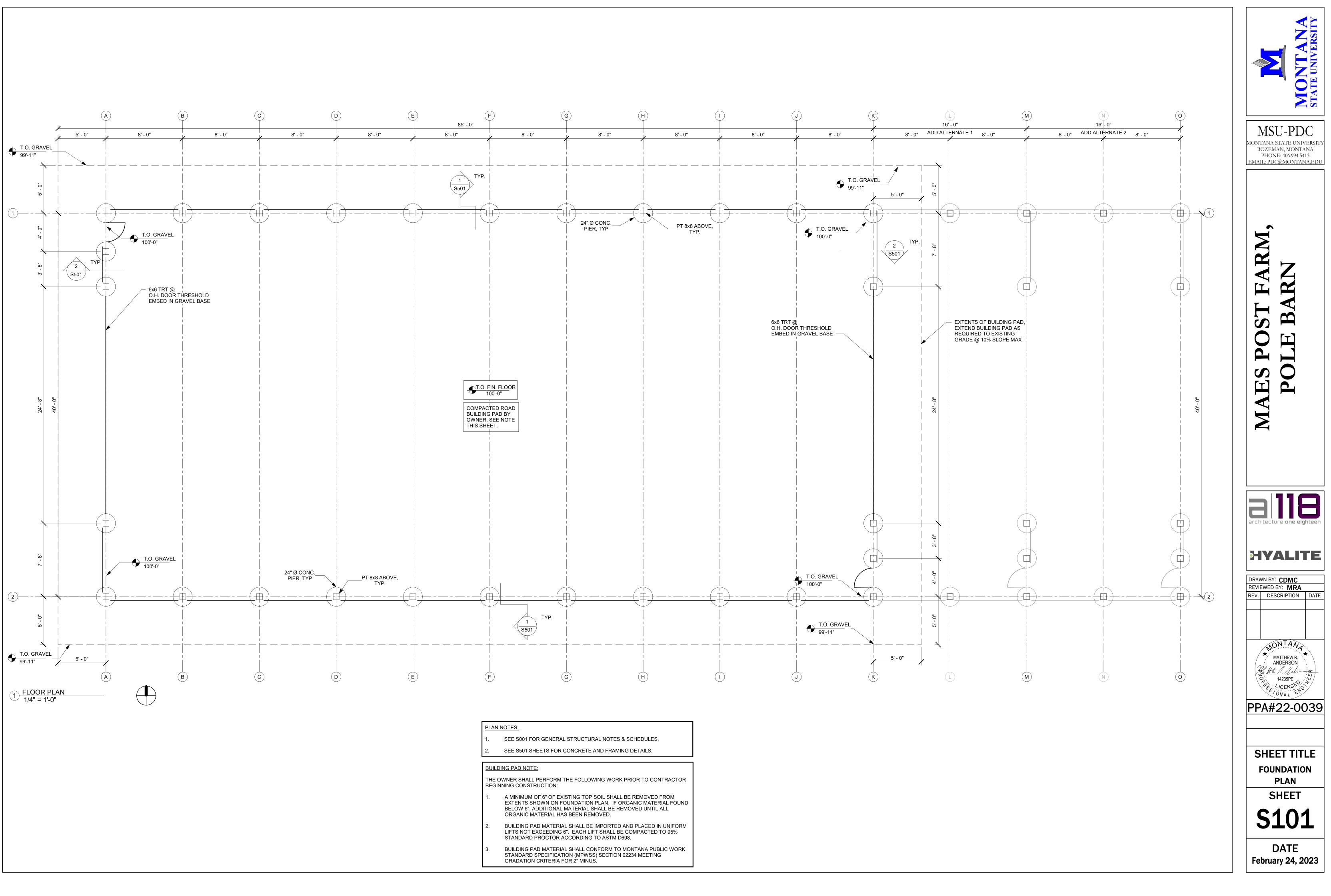
SPECIES	GRADE	GRADING AGENCY
SPF-S	STUD	WWPA
SPF-S	STUD	WWPA
DF	#2	WWPA
DF	#1	WWPA
DF-DF	24F-U4	

GRADING TO BE AS NOTED IN SCHEDULE UNLESS NOTED OTHERWISE. FOR MEMBERS NOT SHOWN IN SCHEDULE, SEE GENERAL NOTES.

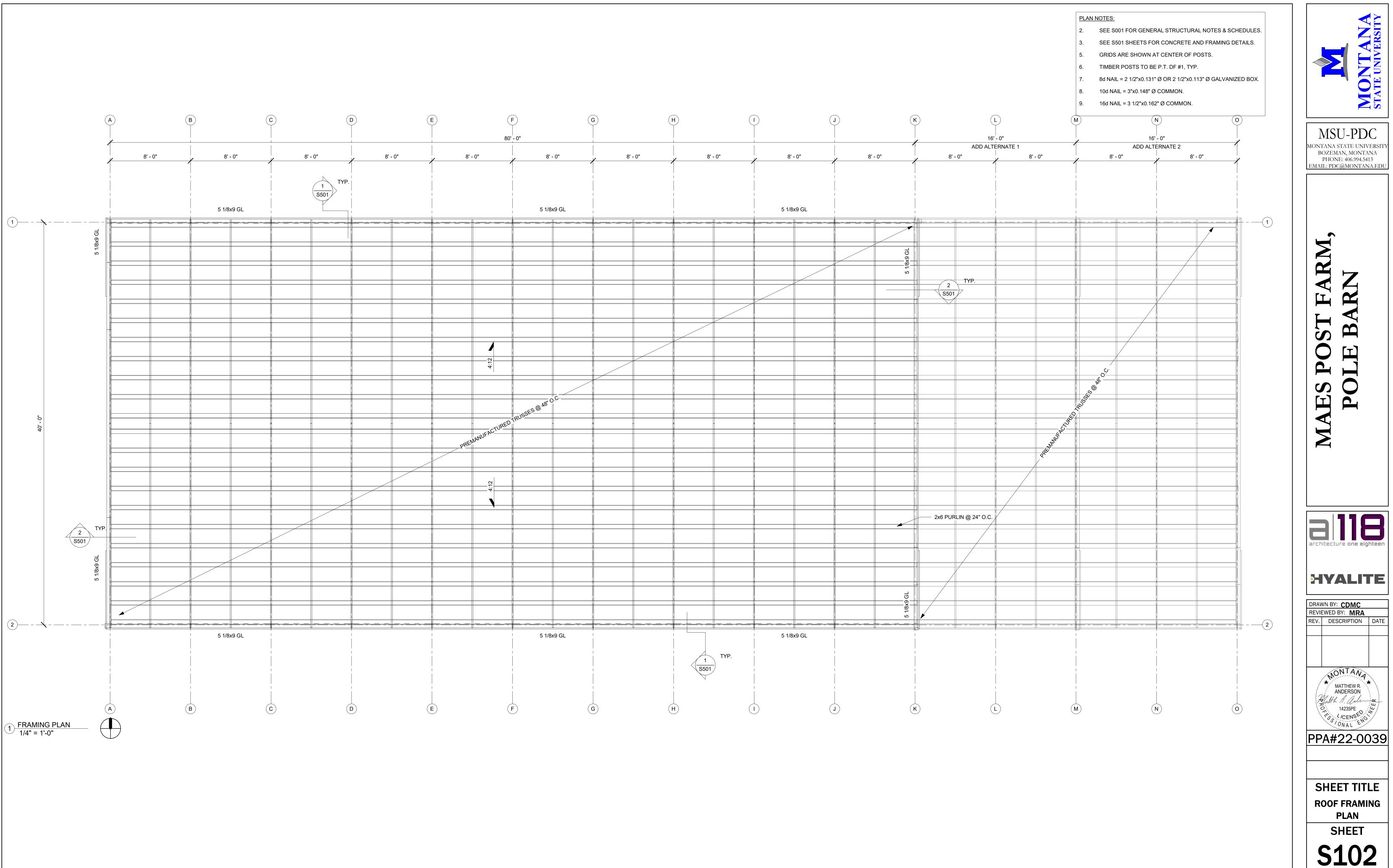
TYPICAL NAILING SCHEDULE				
<u>CONNECTION</u>	NAILING			
JOIST TO SILL OR GIRDER, TOENAIL TOP PLATE TO STUD, END NAIL	(3) 8d 2x4 STUD - (2) 16D, 2x6 STUD & LARGER - (3) 16d			
STUD TO SILL PLATE	TOENAIL - (4) 8d <u>OR</u> ENDNAIL - 2x4 STUD - (2) 16d, 2x6 & LARGER - (3) 16d			
DOUBLE STUDS, FACE NAIL DOUBLE TOP PLATES, FACE NAIL	16d @ 24" O.C. 16d @ 16" O.C.			
P PLATES, LAPS & INTERSECTIONS, FACE NAIL	(2) 16d			
CONTINUOUS HEADER, TWO PIECES CONTINUOUS HEADER TO STUD, TOENAIL	16d @ 16" O.C. ALONG EA. EDGE (4) 8d			
CEILING JOISTS TO PLATE, TOENAIL ING JOIST TO PARALLEL RAFTERS, FACE NAIL	(2) 16d (3) 16d			
ING JOIST TO PARALLEL RAFTERS, FACE NAIL	(3) 16d			
RAFTER TO PLATE, TOENAIL	(3) 8d			
BUILT-UP CORNER STUDS	16d @ 24" O.C.			
BUILT-UP GIRDERS & BEAMS (3 OR MORE PIECES, EXCLUDING LVLS)	20d @ 32" O.C. FACE NAIL TOP & BOTTOM STAGGERED OPPOSITE SIDE			

NOTE: SEE IBC TABLE 2304.9.1 FOR CLARIFICATION OR ITEMS NOT SPECIFICALLY CALLED OUT

Image: Notice of the second state o
MAES POST FARM, POLE BARN
architecture one eighteen
HYALITE
DRAWN BY: CDMC REVIEWED BY: MRA REV. DESCRIPTION DATE
MATTHEW R ANDERSON Halth Alacher 14235PE 14235PE 14235PE 14235PE 14235PE 14235PE 14235PE 14235PE 14235PE 14235PE 14235PE 14235PE 14235PE 14235PE 14235PE 14235PE 14235PE 14235PE 14235PE 14255
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DATE

February 24, 2023

