MORTON BUILDINGS GENERAL SPECIFICATIONS

LAMINATED COLUMNS - NO. 1 OR BETTER SOUTHERN YELLOW PINE NAIL LAMINATED 3 MEMBER S4S COLUMNS NAILED 8" O.C. STAGGERED ON EACH SIDE WITH 4" NAILS.

MFS PRE-CAST CONCRETE COLUMN - MORTON BUILDINGS FOUNDATION SYSTEM IS A PRE-ENGINEERED, 10,000 PSI, STEEL REINFORCED COLUMN FOR BELOW GROUND INSTALLATION. DESIGNED TO BE MECHANICALLY FASTENED TO ABOVE GROUND NAIL LAMINATED COLUMNS. THE SYSTEM IS DESIGNED TO RESIST BOTH AXIAL AND BENDING FORCES.

FOOTINGS AND ANCHORAGE - COLUMN HOLES ARE DUG A MINIMUM DEPTH OF 4'-0" BELOW GRADE (SEE PLANS FOR DIAMETER AND DEPTH). MFS PRE-CAST CONCRETE COLUMNS ARE PLACED IN THE HOLE. CONCRETE (MINIMUM COMPRESSIVE STRENGTH 2500 PSI) IS POURED IN PLACE TO THE SPECIFIED THICKNESS (SEE PLANS FOR REQUIRED THICKNESS ABOVE AND BELOW THE COLUMN). THE COLUMN IS THEN BACKFILLED WITH SOIL AND COMPACTED AT 8" INTERVALS OR BACKFILLED WITH CONCRETE (SEE PLANS).

TREATED LUMBER -- PRESSURE PRESERVATIVE TREATED LUMBER OTHER THAN LAMINATED COLUMNS ARE NO. 1 OR BETTER SOUTHERN YELLOW PINE AND CENTER MATCHED OR NOTCHED AND GROOVED OR S4S. PRESSURE TREATMENT TO GROUND CONTACT RETENTION WITH PRESERVATIVE TREATMENT COMPLYING WITH USE CATEGORY UC4B (AWPA OR ICC-ES) AND IN COMPLIANCE WITH USEPA GUIDELINES AND STANDARDS.

FRAMING LUMBER - SIDING NAILERS ARE 2x4 S4S OR 2x6 SPF NO. 2 OR BETTER SPACED APPROXIMATELY 36" O.C. WITH ALL JOINTS STAGGERED AT ATTACHMENT TO COLUMNS. ROOF PURLINS ARE 2x4 S4S NO. 2 OR BETTER ON EDGE SPACED APPROXIMATELY 24" O.C. ALL OTHER FRAMING LUMBER IS NO. 2 OR BETTER.

ROOF TRUSSES - FACTORY ASSEMBLED WITH 18 OR 20 GAUGE GALVANIZED STEEL TRUSS PLATES AS REQUIRED AND KILN DRIED LUMBER AS SPECIFIED. IN-PLANT QUALITY CONTROL INSPECTION IS CONDUCTED UNDER THE AUSPICES OF THE TPI INSPECTION BUREAU. TRUSSES ARE DESIGNED IN ACCORDANCE WITH CURRENT STANDARDS AND SPECIFICATIONS FOR THE STATED LOADING.

SIDING & ROOFING PANELS (FLUOROFLEX 1000 ™) - 0.019" MIN., G90 GALVANIZED OR AZ55 GALVALUME STEEL WITH AN ADDITIONAL BAKED-ON 70% PVDF FINISH WITH A NOMINAL 1 MIL. PAINT THICKNESS ON EXTERIOR.

TRIM - DIE-FORMED TRIM OF 0.017" MIN., G90 GALVANIZED OR AZ55 GALVALUME STEEL ON GABLES, RIDGES, CORNERS, BASE WINDOWS, AND DOORS WITH SAME FINISH AS ROOFING OR SIDING PANELS.

GUTTERS - 5" OR 6" K-STYLE, .030 HIGH TENSILE ALUMINUM GUTTER, 70% PVDF FINISH TO MATCH TRIM, ON BOTH SIDES OF THE BUILDING.
2x4 F1 F1 MFS 09/20

DESIGN AND EXPLANATORY NOTES

1.) ALL PLOT PLANS AND RELATED DETAILS SHALL BE PROVIDED BY OWNER UNLESS INCORPORATED AS PART OF THESE DRAWINGS.

2.) MORTON BUILDINGS GENERAL SPECIFICATIONS APPLY UNLESS INDICATED DIFFERENTLY ON SPECIFIC JOB DRAWINGS OR SUPPLEMENTAL INFORMATION.

3.) NO ONE MAY ALTER ANY ENGINEERING ITEM UNLESS ACTING UNDER THE DIRECTION OF THE LICENSED / REGISTERED ENGINEER .

4.)◆ THE PRECEDING SYMBOL IDENTIFIES ITEMS THROUGHOUT THE PLANS THAT ARE NOT PROVIDED BY MORTON BUILDINGS, INC. OR MORTON BUILDINGS' SUBCONTRACTORS AND ARE THE OWNER'S RESPONSIBILITY.

OFFICE: MONTROSE, CO
JOB NO. 145-125512

Reviewed for Code Compliance

10/02/2023

JOHN COLETTA
OAK CREEK, CO

SHEET INDEX	
SHEET #	DESCRIPTION
G1 OF G1	SPECIFICATIONS & SHEET INDEX
S1 OF S6	COLUMN PLAN
S2 OF S6	TRUSS PLAN & DETAILS
S3 OF S6	TRUSS DRAWING & DETAILS
S4 OF S6	ELEVATIONS
S5 OF S6	SECTIONS & DETAILS
S6 OF S6	SECTIONS & DETAILS

CURRENT LUMBER SPECIFICATIONS (06-01-2013)		
SIZE	DESCRIPTION	BENDING VALUE Fb
2x4	NO. 2 SPF	1313 PSI
2x4	NO. 1 SYP	1500 PSI
2x4	2100f MSR SPF	2100 PSI
2x6	NO. 2 SPF	1138 PSI
2x6	NO. 1 SYP	1350 PSI
2x6	2100f MSR SPF	2100 PSI
2x6	2400 MSR SYP	2400 PSI
2x8	NO. 1 SYP	1250 PSI
2x8	2400 MSR SYP	2400 PSI
2x10	NO. 1 SYP	1050 PSI
2x10	2400 MSR SYP	2400 PSI
2x12	NO. 1 SYP	1000 PSI
2x12	2250f MSR SYP	2250 PSI
1 1/2"x16"	LAMINATED VENEER LUMBER	2800 PSI
3 1/2"x15"	GLU-LAM	1650 PSI
5 1/4"x16 1/2"	GLU-LAM	2400 PSI
5 1/4"x19 1/2"	GLU-LAM	2400 PSI

BUILDING DESIGN CRITERIA	
BUILDING CODE	IBC 2018
USE GROUP	AGRICULTURAL
CONSTRUCTION TYPE	VB
RISK CATEGORY	I
BUILDING AREA	2880 SQ. FT.
ROOF SNOW LOAD *	74 PSF
GROUND SNOW LOAD	111 PSF
WIND SPEED (V_{ULT})	115 MPH
WIND SPEED (V_{ASD})	89 MPH
DESIGN ELEVATION	7200 FT.

*ROOF SNOW LOAD CALCULATIONS

Pf = 0.7 x Ce x I x Pg x Ct
Ce = SNOW EXPOSURE FACTOR = 1.0
I = IMPORTANCE FACTOR = 0.8
Pg = GROUND SNOW LOAD = 111 PSF
Ct = THERMAL FACTOR = 1.2
Pf = 0.7 x 1.0 x 0.8 x 111 x 1.2 = 74.59 PSF
Cs = ROOF SLOPE FACTOR = 0.98
Ps = Pf x Cs = 74.59 x 0.98 = 73.10 PSF

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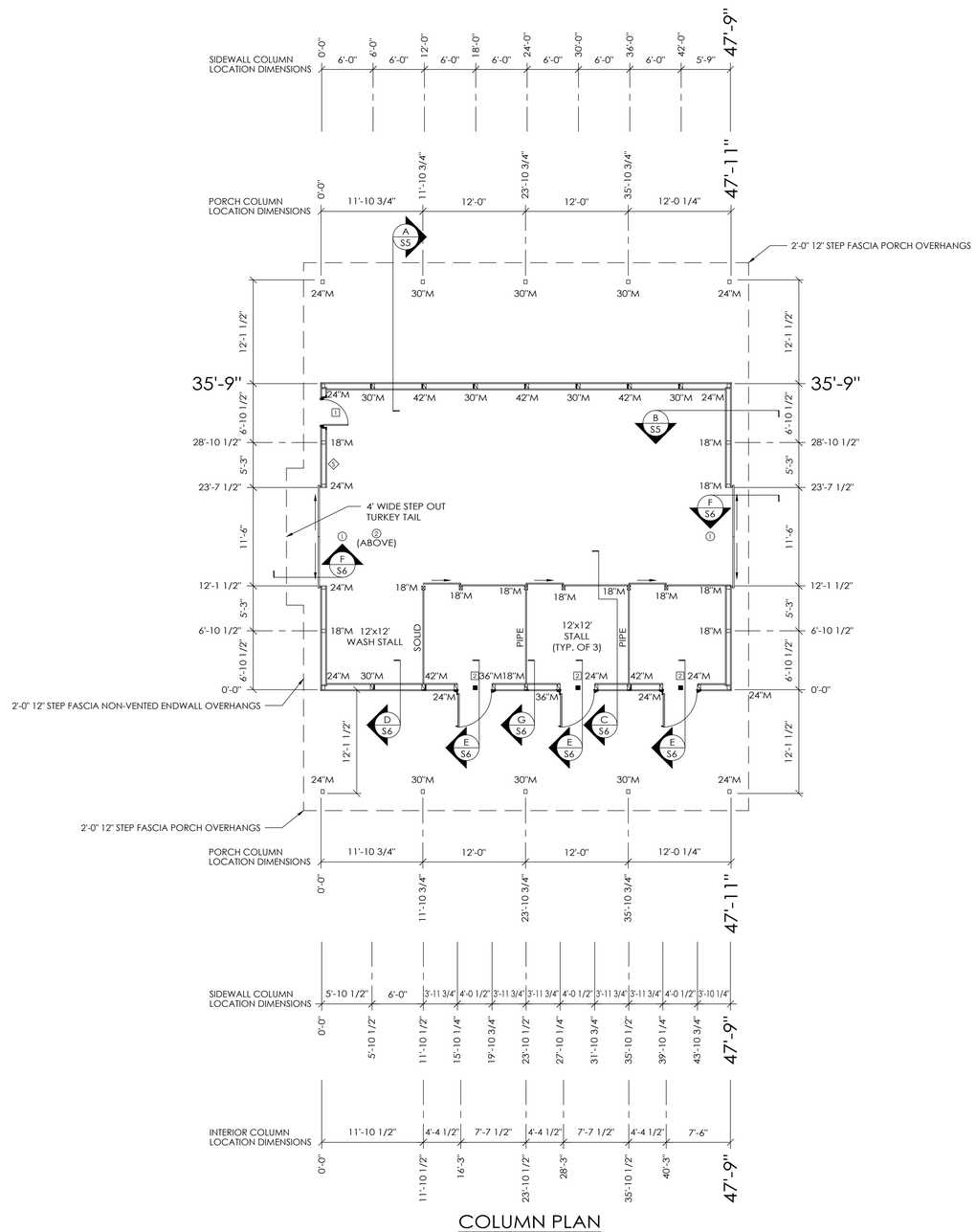
COLORADO LICENSED
CHRISTINE LEE BOOTH
43769
9/8/2023
PROFESSIONAL ENGINEER

SCALE: AS NOTED

SHEET NO:	OF:
G1	G1

DESIGN AND EXPLANATORY NOTES

1.) THE PORCH CORNER COLUMN IS SET OUT AN ADDITIONAL 1" ALONG THE LENGTH OF THE PORCH WHEN A PORCH CORNER COLUMN AND A MAIN BUILDING CORNER COLUMN "APPEAR" TO LINE UP.



COLUMN PLAN

COLUMN PLAN LEGEND

- ▫ - 3-2x6 LAMINATED COLUMN LOCATION
- ⊠ - 3-2x6 STUB COLUMN LOCATION
- ▫ - 3-2x8 LAMINATED COLUMN LOCATION
- ◪ - 3-2x8 LAMINATED COLUMN W/ ADDITIONAL 2x8 LAMINATE LOCATION
- ⊡ - 3-2x8 STUB COLUMN LOCATION W/ HEADERED TRUSS ABOVE
- ■ - HEADERED TRUSS LOCATION
- 1 - 3068 1-LITE IN LEAF WITH EMBOSSED CROSSBUCK WALKDOOR, IN SWING, LEFT HINGE WITH SINGLE CYLINDER DEADBOLT, LOCKSET
- 2 - (3) 4074 DIAMOND M FULL DUTCH DOORS, LEFT HINGE
- ① - (2) 12'-0"x12'-4" DOUBLE SLIDING DIAMOND "M" BARN END DOORS WITH WEATHERSEAL
- ② - (1) 4'-0"x5'-0" NON-FUNCTIONAL SINGLE DIAMOND M LOFT DOOR
- - (1) 3'-6"x3'-6" NON-FUNCTIONAL CUPOLA WITH 'M' 30" WEATHERVANE
- - 30x30 ATTIC ACCESS PANEL (VERIFY LOCATION)
- - ALL STEEL FASTENED WITH STAINLESS STEEL SCREWS
- ◇ - 7/16" OSB SHEARWALL LOCATION (SEE DETAILS ON SHEET S6)

18"M - 18" DIAMETER FOOTING WITH 4' TO BOTTOM OF 21" THICK CONCRETE PAD (2500 PSI MINIMUM). 20" BELOW BOTTOM OF PRECAST CONCRETE COLUMN AROUND EXPOSED REBAR CAGE AND 3/4"x14" THREADED ROD WITH AN ADDITIONAL MINIMUM 1" ABOVE BOTTOM OF PRECAST CONCRETE COLUMN. PLACE CONCRETE BELOW AND ABOVE BOTTOM OF LOWER COLUMN IN ONE OPERATION.

24"M - 24" DIAMETER FOOTING WITH 4' TO BOTTOM OF 21" THICK CONCRETE PAD (2500 PSI MINIMUM). 20" BELOW BOTTOM OF PRECAST CONCRETE COLUMN AROUND EXPOSED REBAR CAGE AND 3/4"x14" THREADED ROD WITH AN ADDITIONAL MINIMUM 1" ABOVE BOTTOM OF PRECAST CONCRETE COLUMN. PLACE CONCRETE BELOW AND ABOVE BOTTOM OF LOWER COLUMN IN ONE OPERATION.

30"M - 30" DIAMETER FOOTING WITH 4' TO BOTTOM OF 21" THICK CONCRETE PAD (2500 PSI MINIMUM). 20" BELOW BOTTOM OF PRECAST CONCRETE COLUMN AROUND EXPOSED REBAR CAGE AND 3/4"x14" THREADED ROD WITH AN ADDITIONAL MINIMUM 1" ABOVE BOTTOM OF PRECAST CONCRETE COLUMN. PLACE CONCRETE BELOW AND ABOVE BOTTOM OF LOWER COLUMN IN ONE OPERATION.

36"M - 36" DIAMETER FOOTING WITH 4' TO BOTTOM OF 21" THICK CONCRETE PAD (2500 PSI MINIMUM). 20" BELOW BOTTOM OF PRECAST CONCRETE COLUMN AROUND EXPOSED REBAR CAGE AND 3/4"x14" THREADED ROD WITH AN ADDITIONAL MINIMUM 1" ABOVE BOTTOM OF PRECAST CONCRETE COLUMN. PLACE CONCRETE BELOW AND ABOVE BOTTOM OF LOWER COLUMN IN ONE OPERATION.

42"M - 42" DIAMETER FOOTING WITH 4' TO BOTTOM OF 21" THICK CONCRETE PAD (2500 PSI MINIMUM). 20" BELOW BOTTOM OF PRECAST CONCRETE COLUMN AROUND EXPOSED REBAR CAGE AND 3/4"x14" THREADED ROD WITH AN ADDITIONAL MINIMUM 1" ABOVE BOTTOM OF PRECAST CONCRETE COLUMN. PLACE CONCRETE BELOW AND ABOVE BOTTOM OF LOWER COLUMN IN ONE OPERATION.

ROUGH OPENING SCHEDULE

UNIT SYMBOL FROM LEGEND	WIDTH	HEIGHT
1	38 1/4"	81"
2	48 1/2"	88"

N

SCALE: 1" 2" 4" 8" 16'

OFFICE: MONTROSE, CO
JOB NO. 145-125512

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10/02/2023

JOHN COLETTA
OAK CREEK, CO

DRAWN BY:	STH
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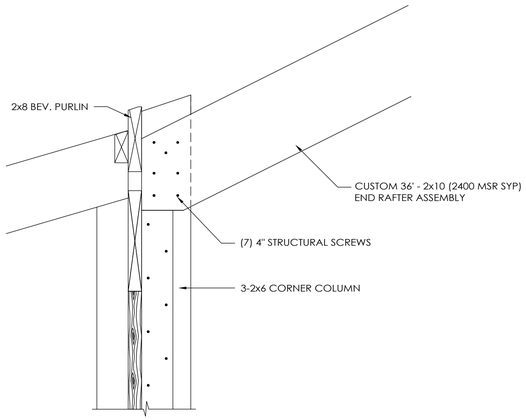
COLORADO LICENSED CHARLIE LEE 43769 9/8/2023 PROFESSIONAL ENGINEER

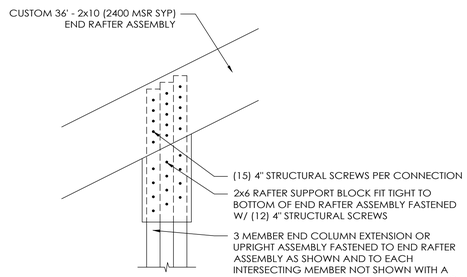
SCALE: AS NOTED

SHEET NO:	OF:
S1	S6



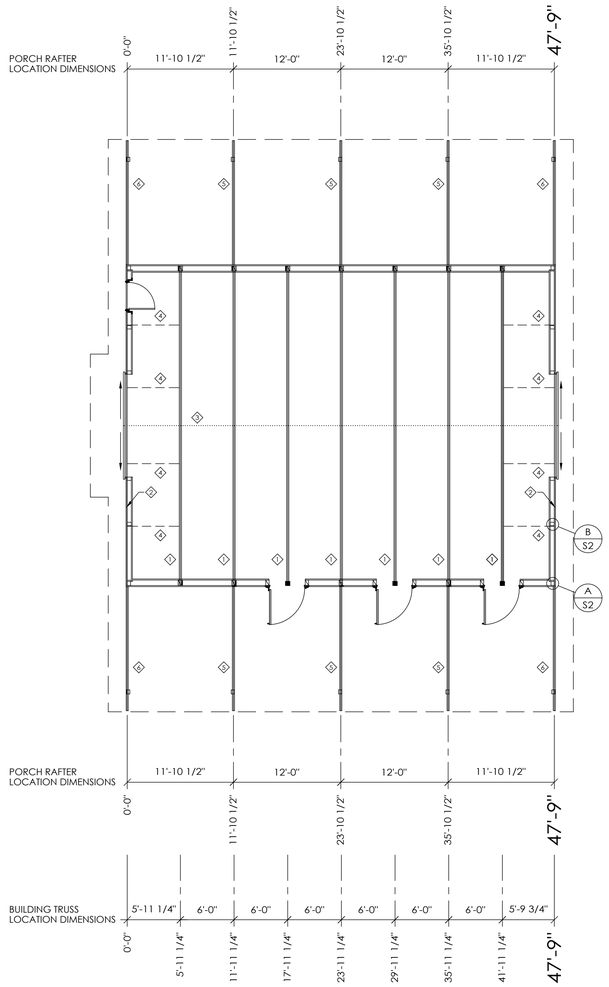
DETAIL A

SCALE: 1 1/2" = 1'-0"



DETAIL B

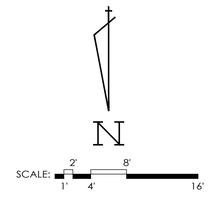
SCALE: 1 1/2" = 1'-0"



TRUSS/BRACING PLAN

TRUSS/BRACING PLAN LEGEND

- ◇ - DOUBLE 36' 407S-S1 S.C. TRUSS
- ◇ - CUSTOM 36' END RAFTER ASSEMBLY
- ◇ - 2x6 FLAT TRUSS TIE CENTERED IN BUILDING
- ◇ - 2x6 DIAGONAL END BRACES (TO EXTEND TO FIRST TRUSS IN FROM ENDWALL)
- ◇ - DOUBLE 1 1/2"x16" LVL RAFTER
- ◇ - DOUBLE CUSTOM 12' PORCH END FRAME



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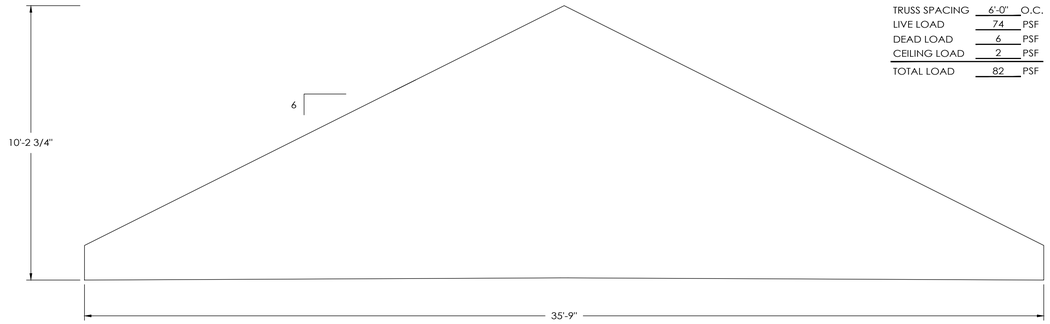
COLORADO LICENSED
CORINNE LEE SMITH
43769
9/8/2023
PROFESSIONAL ENGINEER

SCALE: AS NOTED

SHEET NO:	OF:
S2	S6

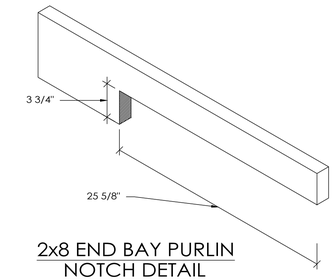
DESIGN AND EXPLANATORY NOTES

1.) TRUSSES ARE USED AS A DOUBLE MEMBER TRUSS ASSEMBLY WHERE NOTED ON THE TRUSS/BRACING PLAN ON SHEET S2. FASTEN TRUSSES TOGETHER FROM EACH SIDE WITH 0.131" DIA. x 2-3/4" R.S. GUN NAILS @ 8" O.C. STAGGERED ALONG TOP CHORD AND WEB MEMBERS, AND 24" O.C. ALONG LOWER CHORD.

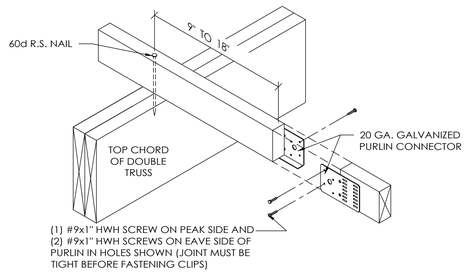


TRUSS SPACING	6'-0"	O.C.
LIVE LOAD	74	PSF
DEAD LOAD	6	PSF
CEILING LOAD	2	PSF
TOTAL LOAD	82	PSF

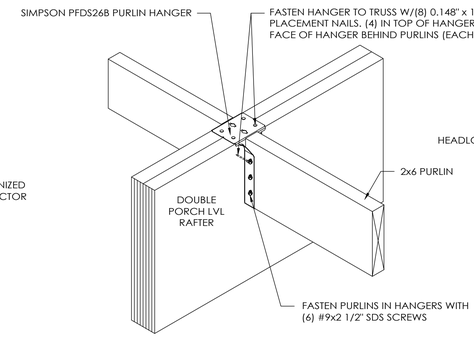
36' S.C. 4075-S1 TRUSS
SCALE: 3/8" = 1'-0" SEE NOTE #1



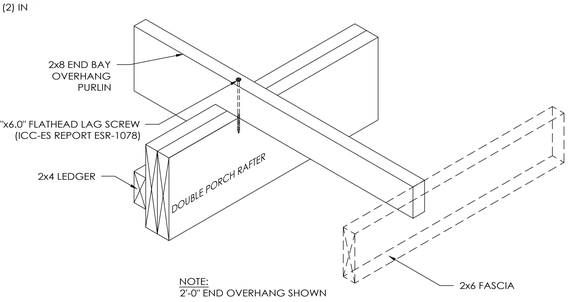
2x8 END BAY PURLIN NOTCH DETAIL



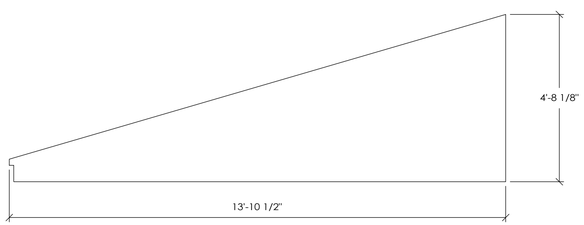
2x4 BUTTED PURLIN DETAIL
(PURLIN CONNECTED WITH 60D R.S. NAIL)
SCALE: 1 1/2" = 1'-0"



PURLIN HANGER DETAIL
SCALE: 1 1/2" = 1'-0"



2x8 END OVERHANG DETAIL
(PURLIN CONNECTED WITH 0.19"x6" HEADLOK FLATHEAD LAG SCREW)
SCALE: 1 1/2" = 1'-0"



LIVE LOAD	74	PSF
DEAD LOAD	8	PSF
CEILING LOAD	-	PSF
TOTAL LOAD	82	PSF

CUSTOM 12' PORCH END FRAME
SCALE: 1/2" = 1'-0" SEE NOTE #1

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OAK CREEK, CO

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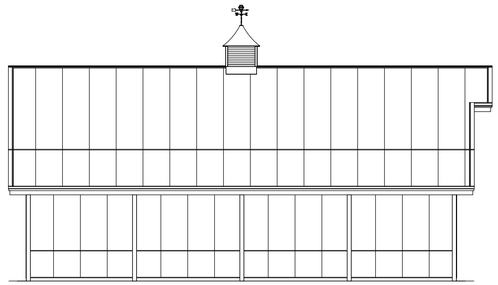
COLORADO LICENSED
TERRINE LEE BOOTH
43769
9/8/2023
PROFESSIONAL ENGINEER

SCALE: AS NOTED

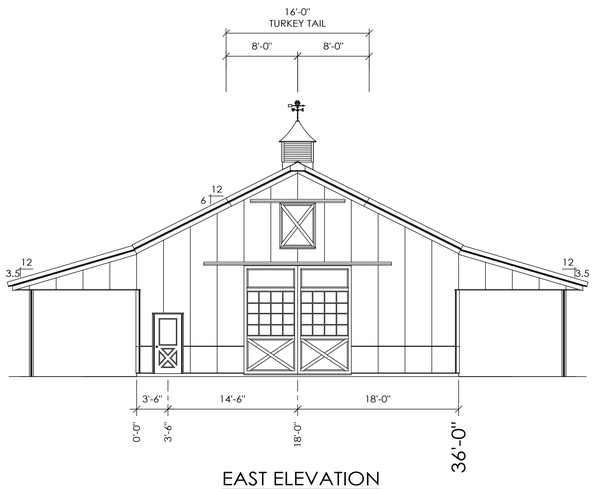
SHEET NO: S3	OF: S6

DESIGN AND EXPLANATORY NOTES

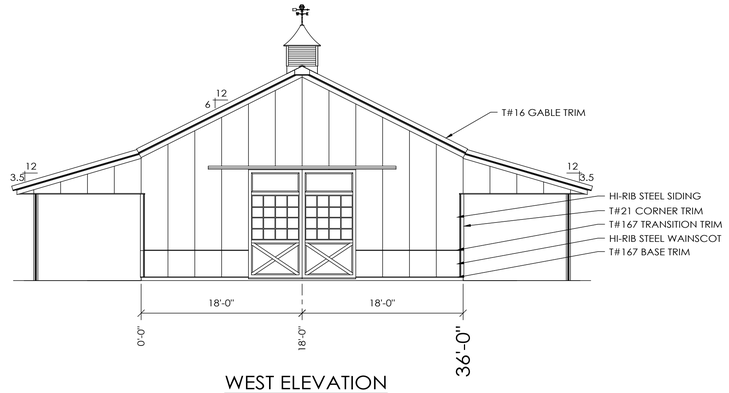
1.) EXTERIOR DOOR LOCATIONS ARE TAKEN FROM THE EXTERIOR FACE OF THE NAILERS AND ARE TO THE CENTER OF THE DOOR UNIT. VERIFY ALL DOOR LOCATIONS WITH THE OWNER.



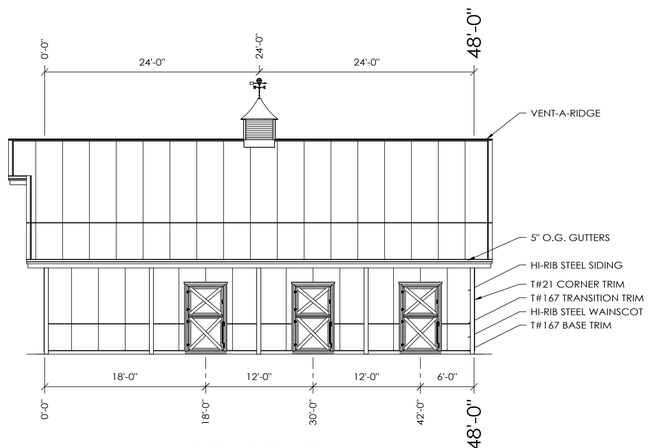
SOUTH ELEVATION



EAST ELEVATION



WEST ELEVATION



NORTH ELEVATION

SCALE: 1" 2' 4' 8' 16'

OFFICE: MONTROSE, CO

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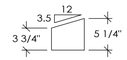
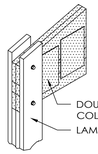
COLORADO LICENSED
CHRISTINE LEE SMITH
43769
9/8/2023
PROFESSIONAL ENGINEER

SCALE: AS NOTED	
SHEET NO: S4	OF: S6

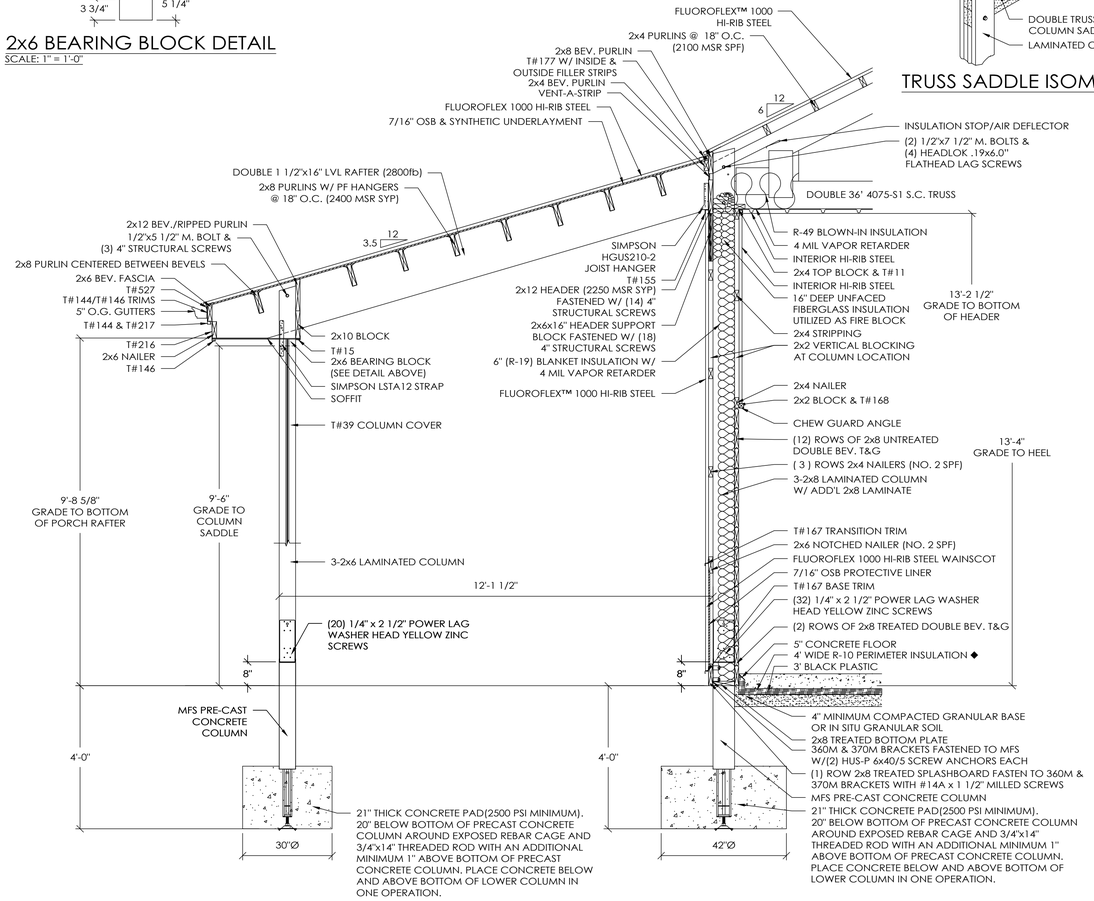


2x6 BEARING BLOCK DETAIL

SCALE: 1" = 1'-0"

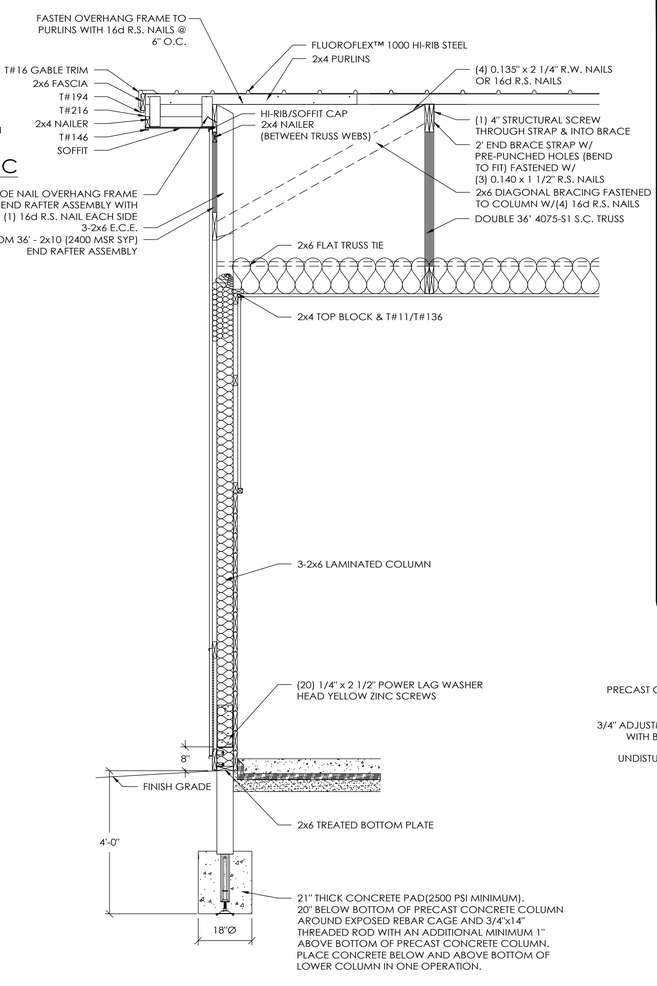


TRUSS SADDLE ISOMETRIC



12' PORCH/SIDEWALL SECTION A

SCALE: 1/2" = 1'-0"



ENDWALL SECTION B

SCALE: 1/2" = 1'-0"

DESIGN AND EXPLANATORY NOTES

1. FOOTINGS ARE DESIGNED FOR A 2000 PSF SOIL BEARING CAPACITY BASED ON RECOMMENDATIONS PROVIDED IN GEOTECHNICAL ENGINEERING REPORT PREPARED BY:

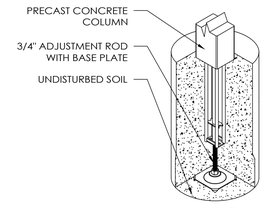
   WESTERN SLOPE GEOTECH
   P.O. BOX 71330
   STEAMBOAT SPRINGS, CO 80477
   PH: (970) 875-4075
   DATED: AUGUST 30, 2023
   PROJECT NO. 23-1068

   a. IT IS THE RESPONSIBILITY OF THE OWNER AND/OR GENERAL CONTRACTOR TO SUPPLY A COPY OF THE REPORT TO THE APPROPRIATE SUBCONTRACTORS.
   b. ON-SITE OBSERVATION AND TESTING BY A GEOTECHNICAL ENGINEER OR QUALIFIED REPRESENTATIVE TO BE IN ACCORDANCE WITH ALL RECOMMENDATIONS.
   c. SITE GRADING AND SUBGRADE PREPARATION TO BE IN ACCORDANCE WITH ALL RECOMMENDATIONS.

2. CONCRETE FLOOR NOTES:
   a. 3500 PSI, 5 1/2 BAG MIX CONCRETE.
   b. SLOPE GRADE AWAY FROM BUILDING @ 1" PER FOOT FOR A MINIMUM DISTANCE OF 10' PLUS OVERHANG WIDTH.
   c. A VAPOR RETARDER IS NOT MANDATED PER IBC SECTION 1907 EXCEPTION 3. UNLESS THE FLOOR WILL BE COVERED BY MOISTURE SENSITIVE FLOORING MATERIALS OR IMPERMEABLE FLOOR COATINGS OR WHERE THE FLOOR WILL BE IN CONTACT WITH ANY MOISTURE SENSITIVE EQUIPMENT OR PRODUCT.
   d. CONTRACTION JOINTS UNIFORMLY SPACED 15' O.C. OR LESS
   e. FOR PERIMETER INSULATION USE EXTRUDED POLYSTYRENE OR A COMPARABLE PRODUCT HAVING A MINIMUM COMPRESSIVE STRENGTH OF 25 PSI.

3. PRIOR TO PLACING THE CONCRETE FOOTINGS, HAND TAMP THE BOTTOM 2"-3" OF LOOSE SOIL TO CONSOLIDATE. IF THE DRILLED HOLE CONTAINS MORE THAN 3" OF LOOSE SOIL, REMOVE EXCESS SOIL TO A UNIFORM THICKNESS OF 2"-3", HAND TAMP AND PROCEED WITH CONCRETE FOOTING PLACEMENT.

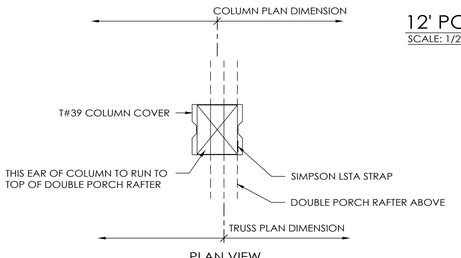
4. DO NOT PLACE CONCRETE FOOTING THROUGH MORE THAN 3" OF STANDING WATER. IF MORE THAN 3" OF STANDING WATER IS PRESENT IN THE FOOTING HOLE CONTACT THE STRUCTURAL ENGINEER OF RECORD FOR INSTALLATION INSTRUCTIONS.



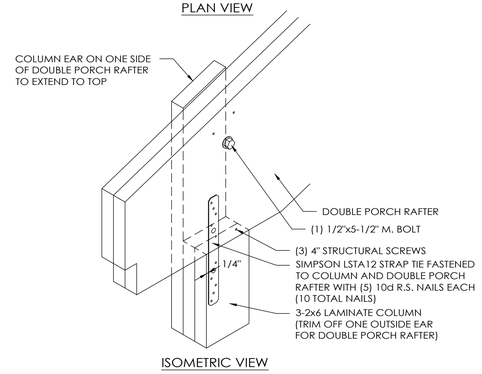
LOWER COLUMN ISOMETRIC

LOWER COLUMN INSTALLATION

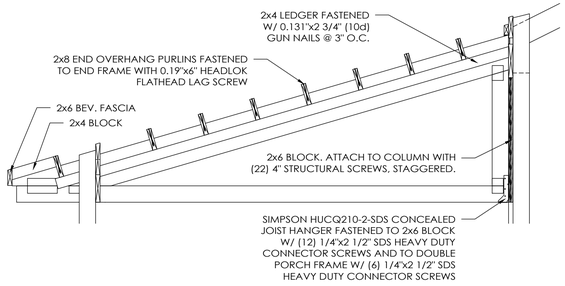
1. INSTALL PRECAST CONCRETE COLUMN W/ADJUSTMENT ROD & BASE PLATE IN THE AUGERED HOLE.
2. PLUMB PRECAST CONCRETE COLUMN IN BOTH DIRECTIONS
3. ADJUST HEIGHT UP OR DOWN WITH ADJUSTMENT HEX ROD
4. POUR READI-MIX CONCRETE INTO THE HOLE AS SPECIFIED.
5. BACKFILL AND COMPACT THE ANNULAR SPACE AROUND THE COLUMN TO GRADE WITH SOIL AUGERED FROM THE SITE.



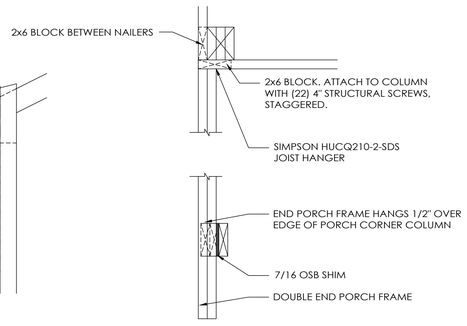
PLAN VIEW



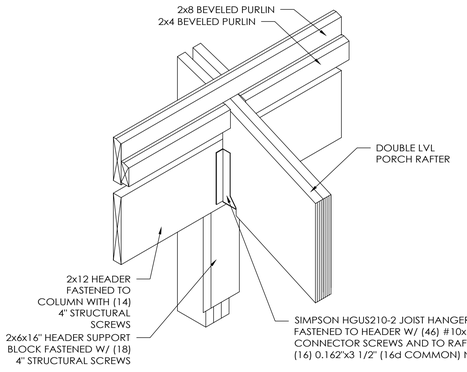
ISOMETRIC VIEW



END VIEW OF END RAFTER



PORCH ENDS AT CORNER COLUMN



PORCH RAFTER ATTACHED AT A COLUMN

OFFICE: MONTROSE, CO

JOB NO. 145-125512

Reviewed for Code Compliance

10/02/2023

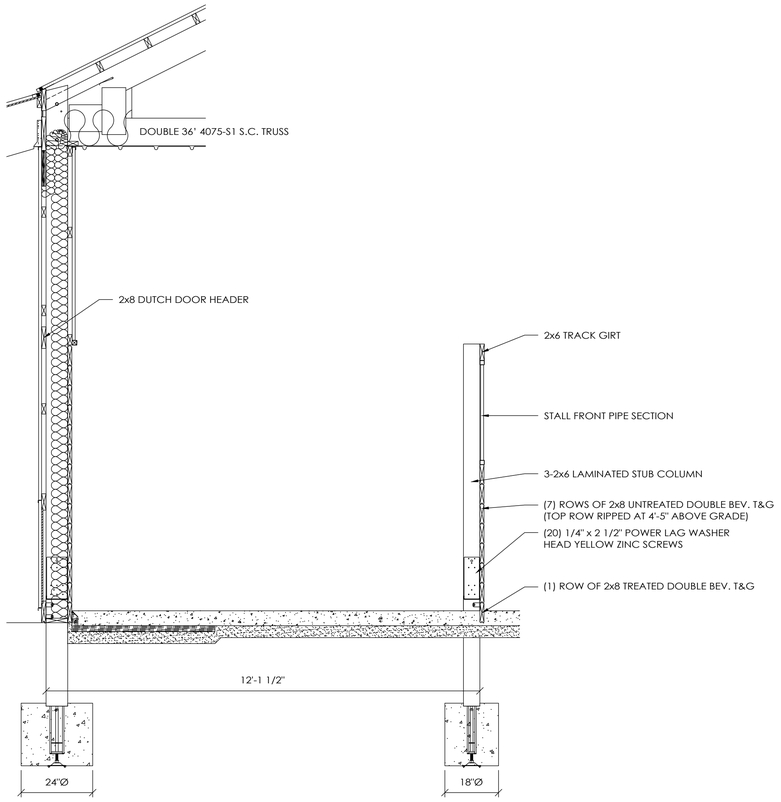
JOHN COLETTA
OAK CREEK, CO

DRAWN BY:	STH
DATE:	8/1/2023
CHECKED BY:	CES
DATE:	9/5/2023
REVISED DATE:	----
REVISED DATE:	----
REVISED DATE:	----
REVISED DATE:	----

COLORADO LICENSED
CHRISTINE LEE BOOTH
43769
9/8/2023
PROFESSIONAL ENGINEER

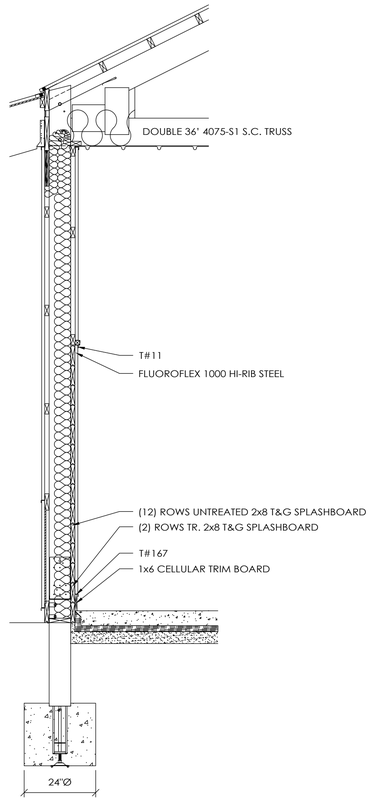
SCALE: AS NOTED

SHEET NO:	OF:
S5	S6



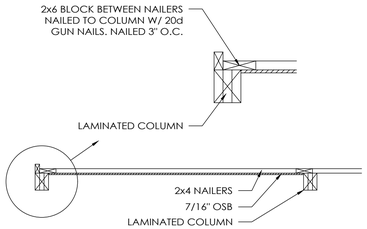
STALL SECTION C

SCALE: 1/2" = 1'-0"



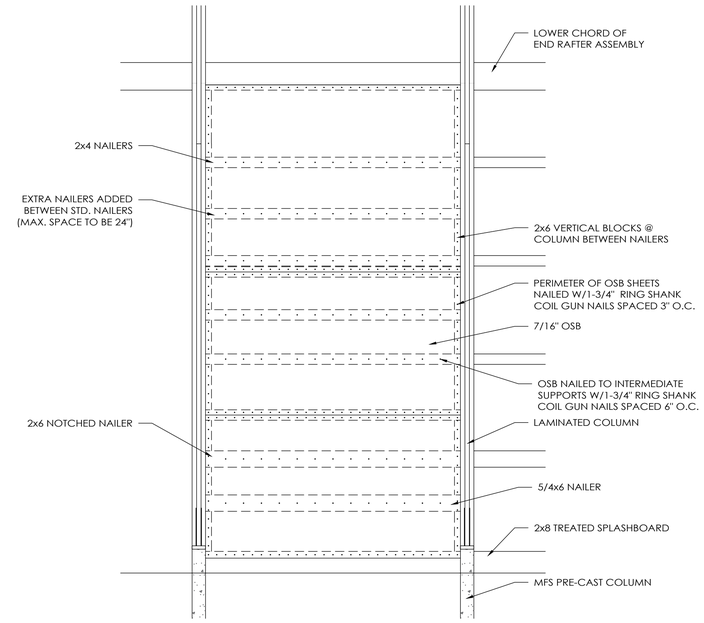
WASH STALL SECTION D

SCALE: 1/2" = 1'-0"



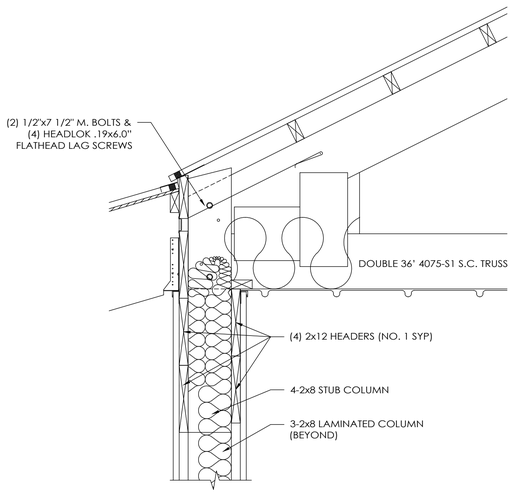
OSB SHEARWALL DETAIL

SCALE: 1/2" = 1'-0"



7/16" OSB SHEARWALL ELEVATION

SCALE: 1/2" = 1'-0"

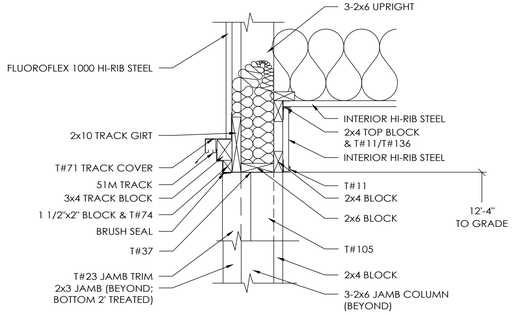


HEADER FASTENING SCHEDULE		
HEADER MEMBER	STUB COLUMN	JAMB COLUMN
EA. 2x12	12	8

NOTES:
1. NUMBERS ABOVE ARE 4" STRUCTURAL SCREWS REQUIRED PER CONNECTION.
2. PRE-DRILL HEADERS AS REQUIRED TO PREVENT SPLITTING.
3. IF NUMBER OF SCREWS REQUIRED FOR HEADER TO JAMB COLUMN CONNECTION IS EXCESSIVE TO CAUSE SPLITTING, THE EXCESS SCREWS MAY BE INSTALLED IN HEADER SUPPORT BLOCKING.

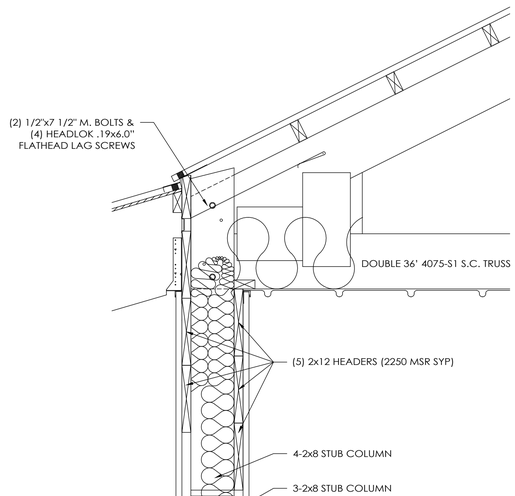
HEADER SECTION E

SCALE: 1/2" = 1'-0"



SLIDING DOOR SECTION F

SCALE: 1" = 1'-0"



HEADER FASTENING SCHEDULE		
HEADER MEMBER	STUB COLUMN	JAMB COLUMN
EA. 2x12	14	8

NOTES:
1. NUMBERS ABOVE ARE 4" STRUCTURAL SCREWS REQUIRED PER CONNECTION.
2. PRE-DRILL HEADERS AS REQUIRED TO PREVENT SPLITTING.
3. IF NUMBER OF SCREWS REQUIRED FOR HEADER TO JAMB COLUMN CONNECTION IS EXCESSIVE TO CAUSE SPLITTING, THE EXCESS SCREWS MAY BE INSTALLED IN HEADER SUPPORT BLOCKING.

HEADER SECTION G

SCALE: 1/2" = 1'-0"

OFFICE: MONTROSE, CO

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CHRISTINE E. SMITH
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SCALE: AS NOTED

SHEET NO:	OF:
S6	S6