

CROY BARN

MORGAN HILL – CALIFORNIA




TIMBERLYNE

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Attachment A

Response Letter

October 16, 2023

Reva Kakaria
County of Santa Clara
Department of Planning and Development
70 West Hedding Street
San Jose, CA 95110

**Re: File Number PLN23-134
4901 Croy Road, Morgan Hill**

Dear Ms. Kakaria:

This letter is in response to the County's review comments dated August 23, 2023.

Civil Review Comments: Reva Kakaria (408) 299-5792

1. **Site Plan:**

Please include the footprint of all existing and proposed structures, hardscape and associated improvements on the site plan. This includes all existing and proposed structures (residences (if any), barns, sheds, gazebos/ patios, decks, arenas), associated improvements (e.g., landscape areas, sub-surface utility systems (including leach fields), pads for water/propane tanks, roads, driveways, ground mounted PV systems, etc.), and recreation facilities (e.g., swimming pools/spas). This information is used to determine that a maximum of 10% or 5 acres of the parcel is cumulatively devoted to existing and proposed compatible use development.

Response:

As identified in the Compatible Use Site Plan, Exhibit A, the existing structures include three storage containers that are each sized at 10' x 20'. For proposed structures, there is a barn structure on a concrete pad, sized at 72' x 64'. The hardscape includes an asphalt driveway with a 12' width. There is no further associated improvements.

2. **Calculations:**

Area calculations include the footprint of all existing and proposed structures, hardscape, and associated improvements (see above), as well as percentage of developed and commercial agricultural use areas. Please refer to the attached Williamson Act Compatible Use Determination calculation sample (Attachment A). Submit area calculations, with an accompanying schematic of all existing/proposed development and commercial agricultural use areas, calculated, verified, and stamped by a licensed professional (civil engineer, professional engineer, or architect). This information is used to determine that a maximum of 10% or 5 acres of the parcel is cumulatively devoted to existing and proposed compatible use development.

Response:

As outlined in the Compatible Use Area Calculations sheet, the areas for the total site, structures, hardscape and improvements, and the percent of the parcel being used for ancillary uses and agricultural production is listed. The total area for ancillary use is 0.65% or 0.329 acres of the parcel, which is less than the maximum 10% or 5 acres of the parcel allowed to be devoted to existing and proposed compatible use.

END OF COMMENTS

Sincerely,

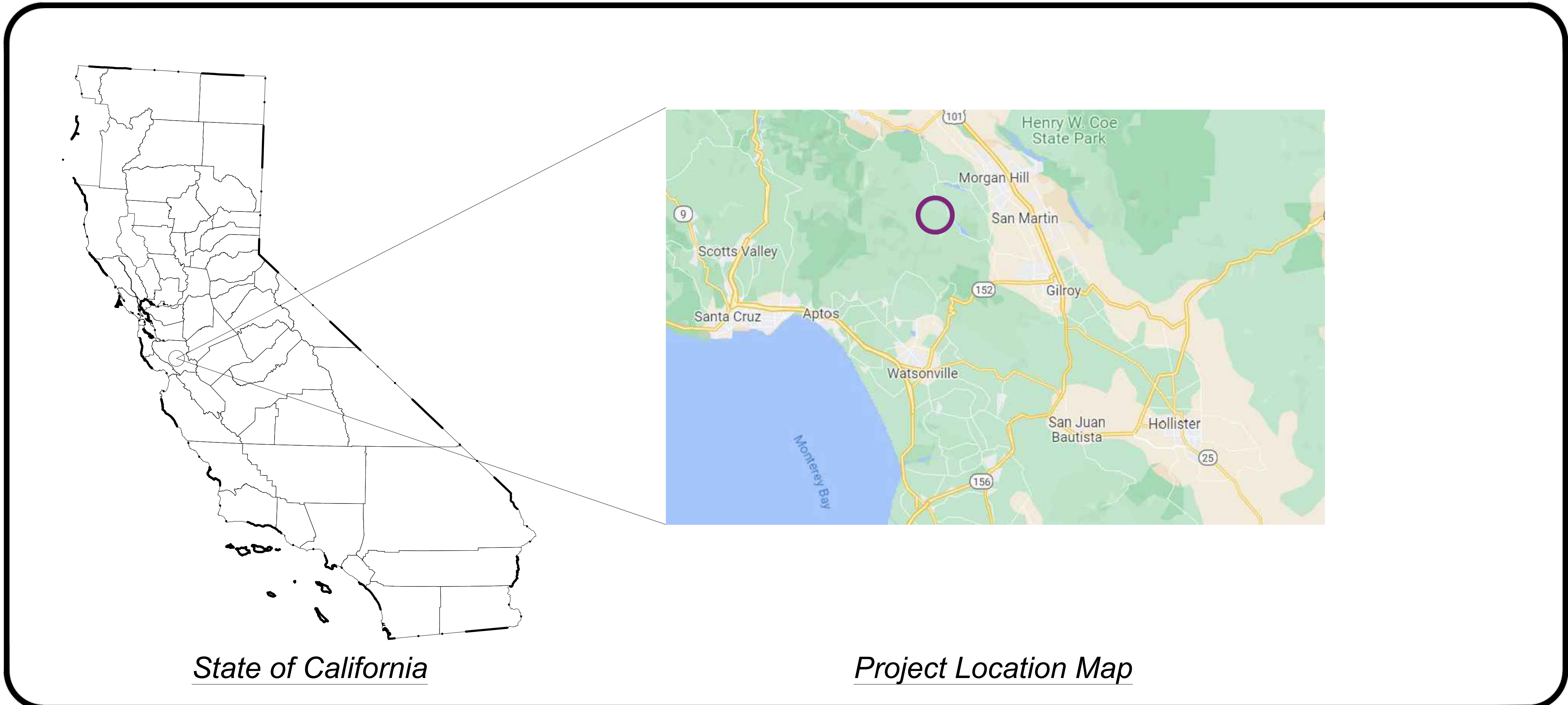
A handwritten signature in black ink, appearing to read "Riana Wheeler", is positioned above the typed name.

Riana Wheeler, EIT

Attachment B

Drawing Set

CROY BARN
MORGAN HILL - CALIFORNIA
SEPTEMBER 22, 2023



State of California

Project Location Map

PAGE NUMBER	SHEET NUMBER	DRAWING NAME	DISCIPLINE	DRAWING DESCRIPTION
1	C000	COVER SHEET	GENERAL	-
2	IND001	INDEX SHEET	GENERAL	INDEX OF DRAWINGS
3	G000	TIMBERLYNE COVER SHEET	GENERAL	-
4	D200	MAIN FLOOR PLAN	ARCHITECTURAL	-
5	D201	LOFT FLOOR PLAN	ARCHITECTURAL	-
6	D202	ROOF PLAN	ARCHITECTURAL	-
7	D300	EXTERIOR ELEVATIONS	ARCHITECTURAL	-
8	D301	EXTERIOR ELEVATIONS	ARCHITECTURAL	-
9	D400	BUILDING SECTIONS	ARCHITECTURAL	-
10	S200	FOUNDATION PLAN	STRUCTURAL	-
11	S201	LOFT FLOOR FRAMING PLAN	STRUCTURAL	-
12	S202	PURLIN LAYOUT / ROOF FRAMING PLAN	STRUCTURAL	-
13	S300	DETAILED BUILDING SECTIONS	STRUCTURAL	-
14	S301	DETAILED BUILDING SECTIONS	STRUCTURAL	-
15	S400	CONNECTIONS AND ATTACHMENT DETAILS	STRUCTURAL	-
16	S401	FLASHING DETAILS	STRUCTURAL	-
17	S500	BENT DETAILS	STRUCTURAL	-
18	S501	FRAME ISO	STRUCTURAL	-
19	S600	POST CONNECTION / BENT LAYOUT	STRUCTURAL	-
20	S601	MAIN FLOOR SHEAR WALL SCHEDULE	STRUCTURAL	-
21	S602	LOFT FLOOR SHEAR WALL SCHEDULE	STRUCTURAL	-
22	C200	CIVIL SITE PLAN	CIVIL	-
23	C300	GRADING PLAN	CIVIL	DRIVEWAY
24	C301	PROFILE PLAN	CIVIL	DRIVEWAY
25	C400	GRADING PLAN	CIVIL	CONCRETE PAD
26	C500	CIVIL DETAIL SHEET	CIVIL	-

NOT FOR CONSTRUCTION

NO.	DATE	BY	APPD.	REVISIONS

DESIGNED BY C. BERILLA
DRAWN BY R. WHEELER
CHECKED BY
IN CHARGE
DATE

AECOM

AECOM USA, Inc.
300 Lakeside Drive, Suite 400
Oakland, CA 94612
T 510.893.3600

www.aecom.com

CROY BARN
MORGAN HILL - CALIFORNIA

INDEX OF DRAWINGS

ENVIRONMENTAL ALTERNATIVE CODE
DRAWING NO. IND001
SCALE AS SHOWN
SHEET NO. OF

GENERAL NOTES AND DESIGN SPECIFICATIONS

GENERAL NOTES:

1. EVERY EFFORT HAS BEEN MADE TO ELIMINATE ERRORS DURING THE PREPARATION OF THESE DRAWINGS, BUT BECAUSE TIMBERLYNE CANNOT GUARANTEE AGAINST THE POSSIBILITY OF HUMAN ERROR, IT BECOMES THE OBLIGATION OF THE USER TO VERIFY THE ACCURACY OF ALL DETAILS AND DIMENSIONS AND PERSONALLY BE RESPONSIBLE FOR THEM.

2. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALE. LARGER SCALE OVER SMALLER SCALE.

3. ALL MECHANICAL AND ELECTRICAL PLANS AND SPECIFICATIONS ARE DESIGNBUILT FURNISHED BY THE MECHANICAL/ELECTRICAL CONTRACTOR FOR THEIR USE.

4. ALL TIMBERS ARE FULL DIMENSION ROUGH SAWN UNLESS NOTED. SILL PLATE IS 2X TREATED UNLESS NOTED OTHERWISE. WE RECOMMEND SILL SEALER BE INSTALLED BENEATH THE SILL PLATE.

5. WHERE FEASIBLE INSTALL THE BOLTS IN THE PLATE JOINERY SO THAT THE NUTS CAN BE ACCESSED FROM THE INTERIOR OF THE BARN. THE SIDING OR FRAMING MAY NEED TO BE NOTCHED SLIGHTLY FOR PLATE AND BOLT CLEARANCE.

6. VERIFY WINDOW AND DOOR ROUGH OPENINGS BEFORE FRAMING.

7. WE RECOMMEND 1X4 BREAKER BOARD BE INSTALLED AT SIDING SPLICES. WE RECOMMEND THAT THE CONTRACTOR INSTALL 2 FLASHING @ ALL BREAKER BOARD LOCATIONS.

8. EXTERIOR FLASHING TO BE INSTALLED AT ALL CONNECTIONS BETWEEN ROOFS, WALLS, AND PROJECTIONS OR PENETRATIONS AS REQUIRED BY GOOD CONSTRUCTION PRACTICES. FLASHING IS NOT SUPPLIED BY TIMBERLYNE.

9. ANY MATERIALS SHOWN ON THESE DRAWINGS WHICH ARE NOT WRITTEN IN YOUR CONTRACT OR INCLUDED IN THE TIMBERLYNE MATERIALS LIST ARE TO BE PROVIDED BY THE BUYER.

10. WHERE TREATED WOOD IS CROSSCUT, NOTCHED, OR BORED ON SITE, THE EXPOSED UNTREATED WOOD SHOULD BE GIVEN TWO LIBERAL COATS OF A WOOD PRESERVATIVE SEALANT.

FOUNDATION NOTES:

1. LOCAL BUILDING CODE SPECIFICATIONS REGARDING WATERPROOFING, DAMP PROOFING AND VENTILATION OF FOUNDATION WALLS AND SLABS, TAKE PRECEDENCE OVER THE STANDARD INFORMATION SHOWN IN THESE DRAWINGS. IT IS THE RESPONSIBILITY OF THE BUYER, OR ON-SITE FOUNDATION CONTRACTOR TO SATISFY THE LOCAL BUILDING CODE REQUIREMENTS.

SOIL: FOOTINGS ARE DESIGNED TO A MIN. SOIL CAPACITY OF 1500 PSF.

SLABS: CONCRETE SLABS SHALL CONFORM TO A 28-DAY STRENGTH OF 3000 PSI AND FOOTINGS TO A STRENGTH OF 3000 PSI.

CODE: 2016 INTERNATIONAL BUILDING CODE & LOCAL CODES

LOADS

ROOF LIVE/DEAD LOAD: ___ PSF

LOFT LIVE LOAD: ___ PSF

WIND LOAD = ___ MPH "___" EXPOSURE

SEISMIC DESIGN CATEGORY: _

IMPORTANCE CATEGORY: _

BUILDING ERECTION SAFETY NOTES:

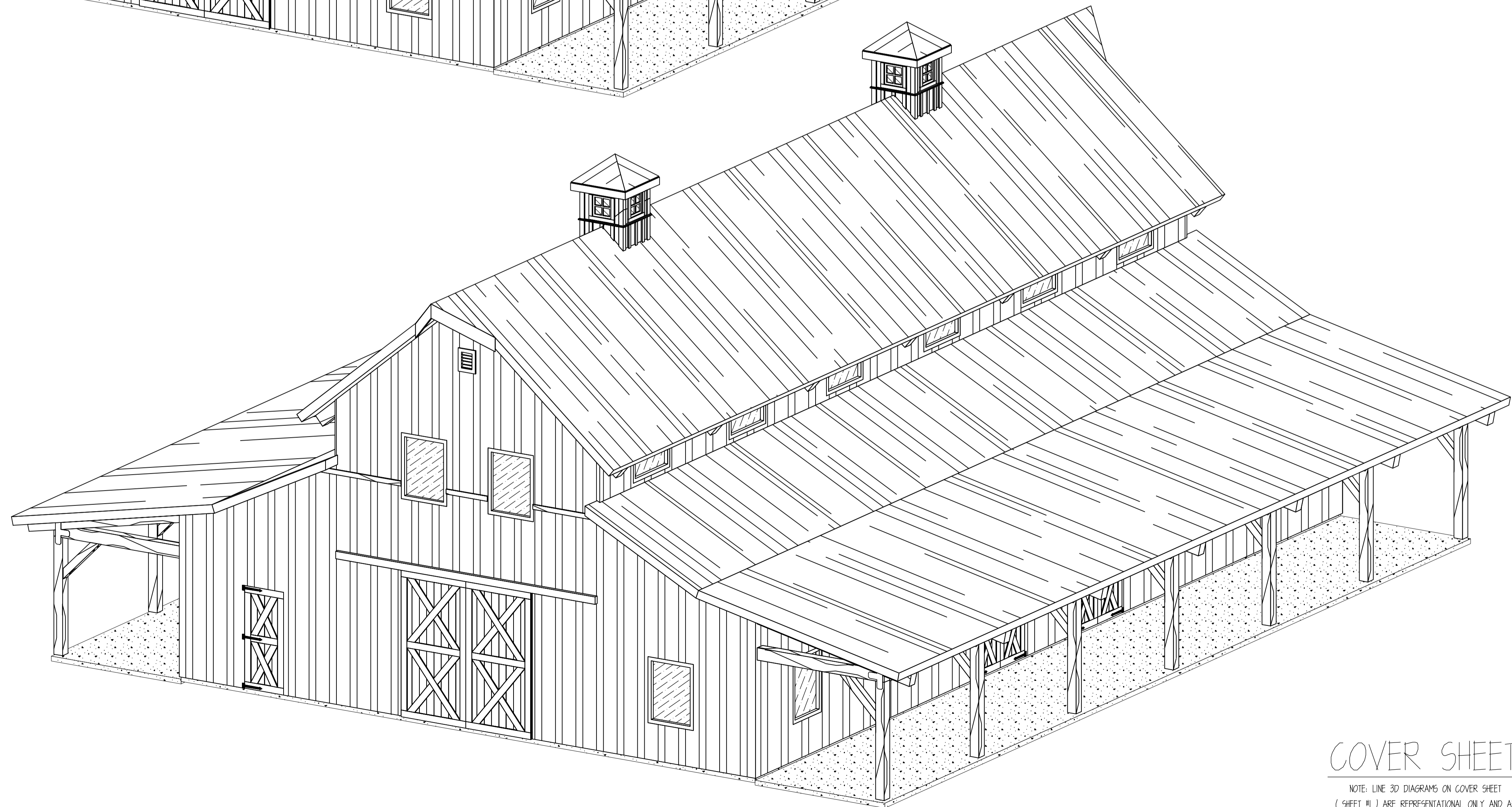
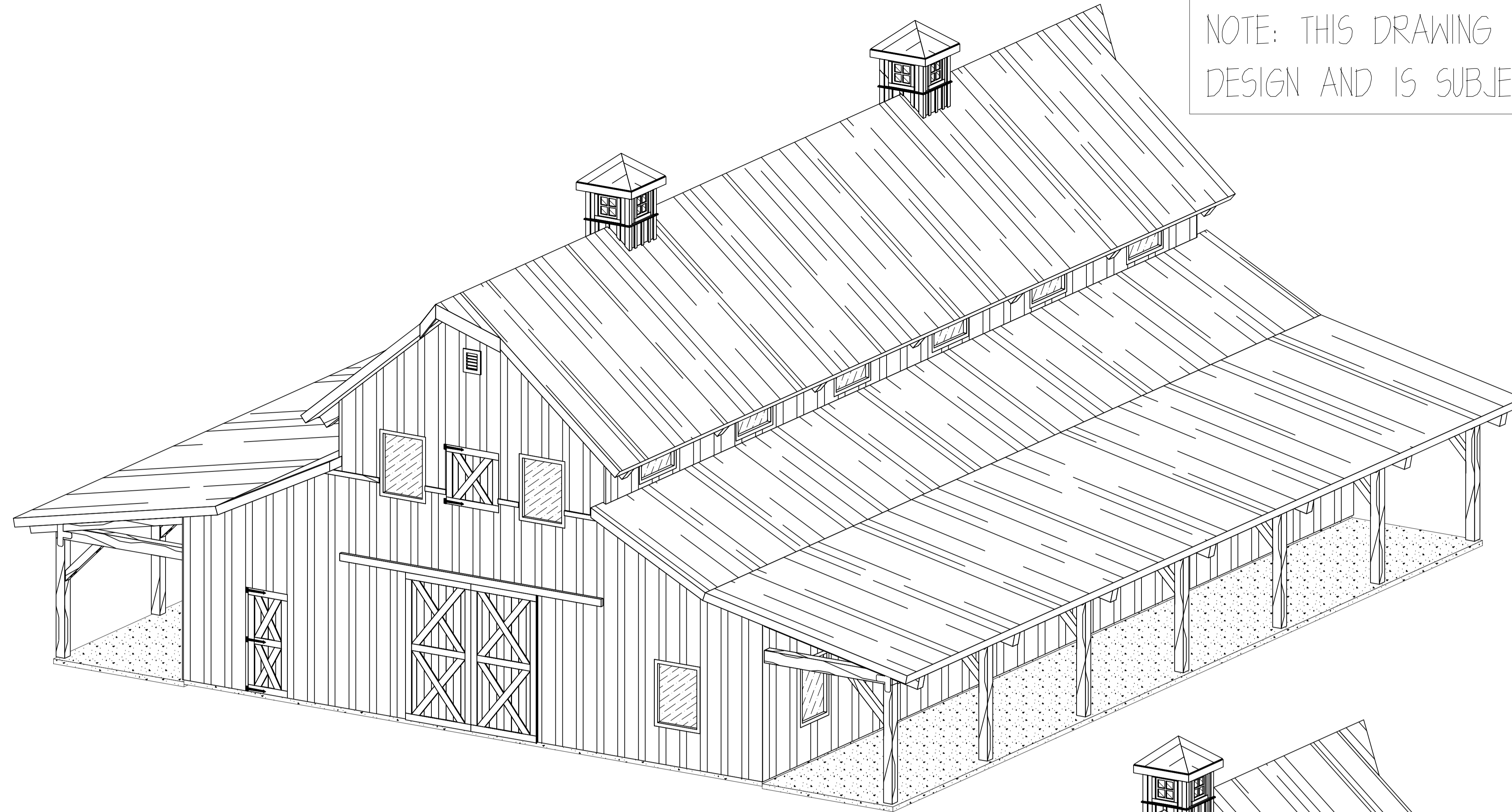
THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING JOB SITE SAFETY AND CONSTRUCTION PROCEDURES IN ACCORDANCE WITH NATIONAL, STATE, AND LOCAL SAFETY REQUIREMENTS. THE ADEQUACY AND SAFETY OF ERECTION BRACINGS, SHORING, AND TEMPORARY SUPPORTS IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

WOOD TYPE

STRUCTURAL FRAMING: DOUGLAS FIR #1 OR BETTER UNDO

PURLIN: DOUGLAS FIR #1 OR BETTER UNDO

NOTE: THIS DRAWING IS PRELIMINARY DESIGN AND IS SUBJECT TO CHANGE



CUSTOMER INFORMATION:

MIKE
DEMKOWSKI

PROJECT INFORMATION:

DEMKOWSKI
Barn

4901 CROY RD.
MORGAN HILL, CA 95037

NUMBER: SCO123-1

CATEGORY: RESIDENTIAL

STYLE: WESTERN

OTHER: --

OTHER: --

PM: WT/CM

DRAWING INFORMATION:

DRAWN BY: AA

DATE: 9/8/2023

STATUS: FINAL PLAN SET

OTHER: --

OTHER: --

SHEET NOTES

SHEET

G000

REVISION HISTORY

REV#	DATE	DESCRIPTION
1.0	9/8/2023	FINAL PLAN SET
1.1	00/00/2023	--
1.2	00/00/2023	--
1.3	00/00/2023	--
1.4	00/00/2023	--

SYMBOLS

	WOOD IN SECTION		ELEVATION NUMBER
	CONCRETE IN SECTION		VIEW DIRECTION OF BUILDING ELEVATION
	SAND OR GRAVEL IN SECTION		DESCRIBES DETAIL LETTER
	STEEL IN SECTION		DESCRIBES PAGE DETAIL IS ON
	BATT INSULATION IN SECTION		VIEW DIRECTION OF SECTION DETAILS
	INSULATION NAILBASE IN SECTION		POST CONNECTION TYPE
	ARCH ROOF		
	BOARD AND BATTEN SIDING		

STANDARD ABBREVIATIONS

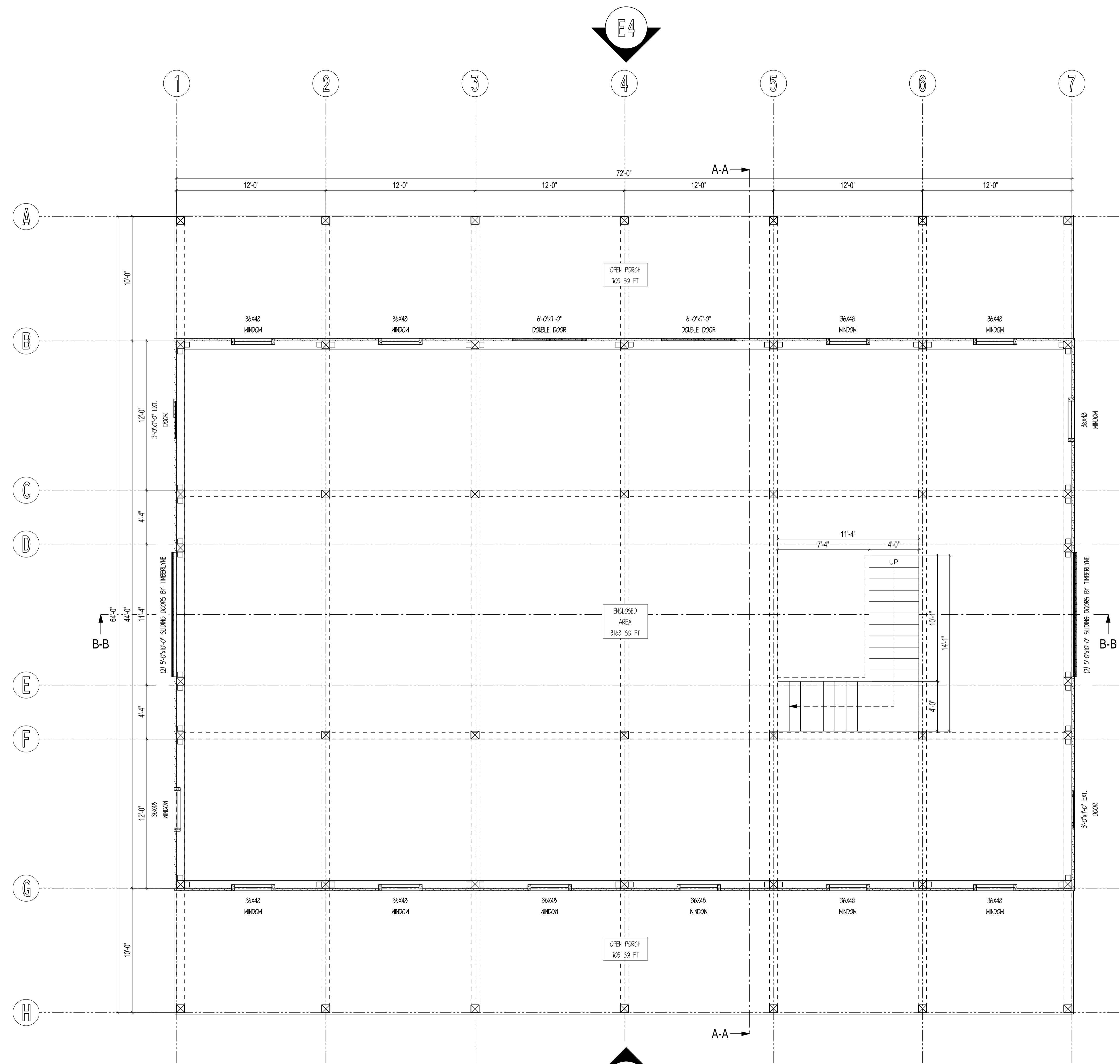
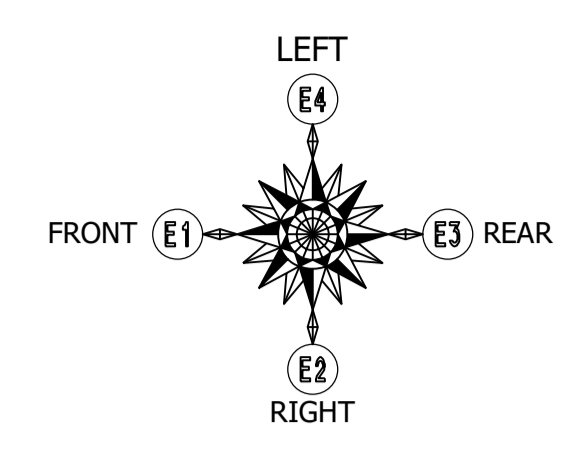
CONC	CONCRETE	MAX	MAXIMUM	EXT	EXTERIOR
CONT	CONTINUOUS	MIN	MINIMUM	FF	FINISHED FLOOR
DBL	DOUBLE	NTS	NOT TO SCALE	FTG	FOOTING
DF	DOUGLAS FIR	OC	ON CENTER	INSUL	INSULATION
EA	EACH	OH	OVERHEAD	INT	INTERIOR
STD	STANDARD	T&G	TONGUE & GROOVE	TYP	TYPICAL

SHEET INDEX

6000	COVER SHEET
D200	MAIN FLOOR PLAN
D201	LOFT FLOOR PLAN
D202	ROOF PLAN
D300	EXTERIOR ELEVATIONS
D301	EXTERIOR ELEVATIONS
D400	BUILDING SECTIONS
5200	FOUNDATION PLAN
5201	LOFT FLOOR FRAMING PLAN
5202	PURLIN LAYOUT/ ROOF FRAMING PLAN
5300	DETAILED BUILDING SECTIONS
5301	DETAILED BUILDING SECTIONS
5400	CONNECTIONS AND ATTACHMENT DETAILS
5401	FLASHING DETAILS
5500	BENT DETAILS
5501	FRAME ISO
5600	POST CONNECTION BENT LAYOUT
5601	MAIN FLOOR SHEAR WALL SCHEDULE
5602	LOFT FLOOR SHEAR WALL SCHEDULE

COVER SHEET

NOTE: LINE 3D DIAGRAMS ON COVER SHEET (SHEET #1) ARE REPRESENTATIONAL ONLY AND ARE NOT INTENDED FOR USE AS CONSTRUCTION DRAWINGS



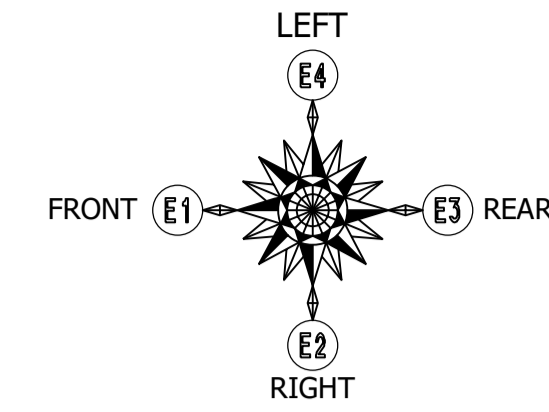
E2
MAIN FLOOR LAYOUT
 SCALE: 1/4" = 1'

CUSTOMER INFORMATION:
MIKE DEMKOWSKI

PROJECT INFORMATION:
DEMKOWSKI Barn
 4901 CROY RD.
 MORGAN HILL, CA 95037
 NUMBER: SCO123-1
 CATEGORY: RESIDENTIAL
 STYLE: WESTERN
 OTHER: --
 OTHER: --
 PM: WT/CM

DRAWING INFORMATION:
 DRAWN BY: AA
 DATE: 9/8/2023
 STATUS: FINAL PLAN SET
 OTHER: --
 OTHER: --

SHEET NOTES:
 1. FLOOR LAYOUT DRAWINGS ARE NOT DESIGNED BY AN ARCHITECT. ADDITIONAL PROFESSIONAL SERVICES MAY BE REQUIRED TO COMPLY WITH LOCAL CODES AND REGULATIONS.
 2. TIMBERLYNE IS NOT RESPONSIBLE FOR DESIGNING ELECTRICAL, PLUMBING, AND HVAC PLANS.
 3. INTERIOR PARTITION WALLS, WINDOWS, DOORS, AND FIXTURES ARE PROVIDED BY CUSTOMER OR GENERAL CONTRACTOR.
 4. DAYLIGHT OPENING, VENT OPENING, AND EGRESS REQUIREMENTS ARE THE RESPONSIBILITY OF THE CUSTOMER/GENERAL CONTRACTOR.
 5. DOOR AND WINDOW LOCATIONS ARE APPROX. ONLY. EXACT LOCATION TO BE DETERMINED BY THE CUSTOMER AND GENERAL CONTRACTOR.



CUSTOMER INFORMATION:

**MIKE
 DEMKOWSKI**

PROJECT INFORMATION:

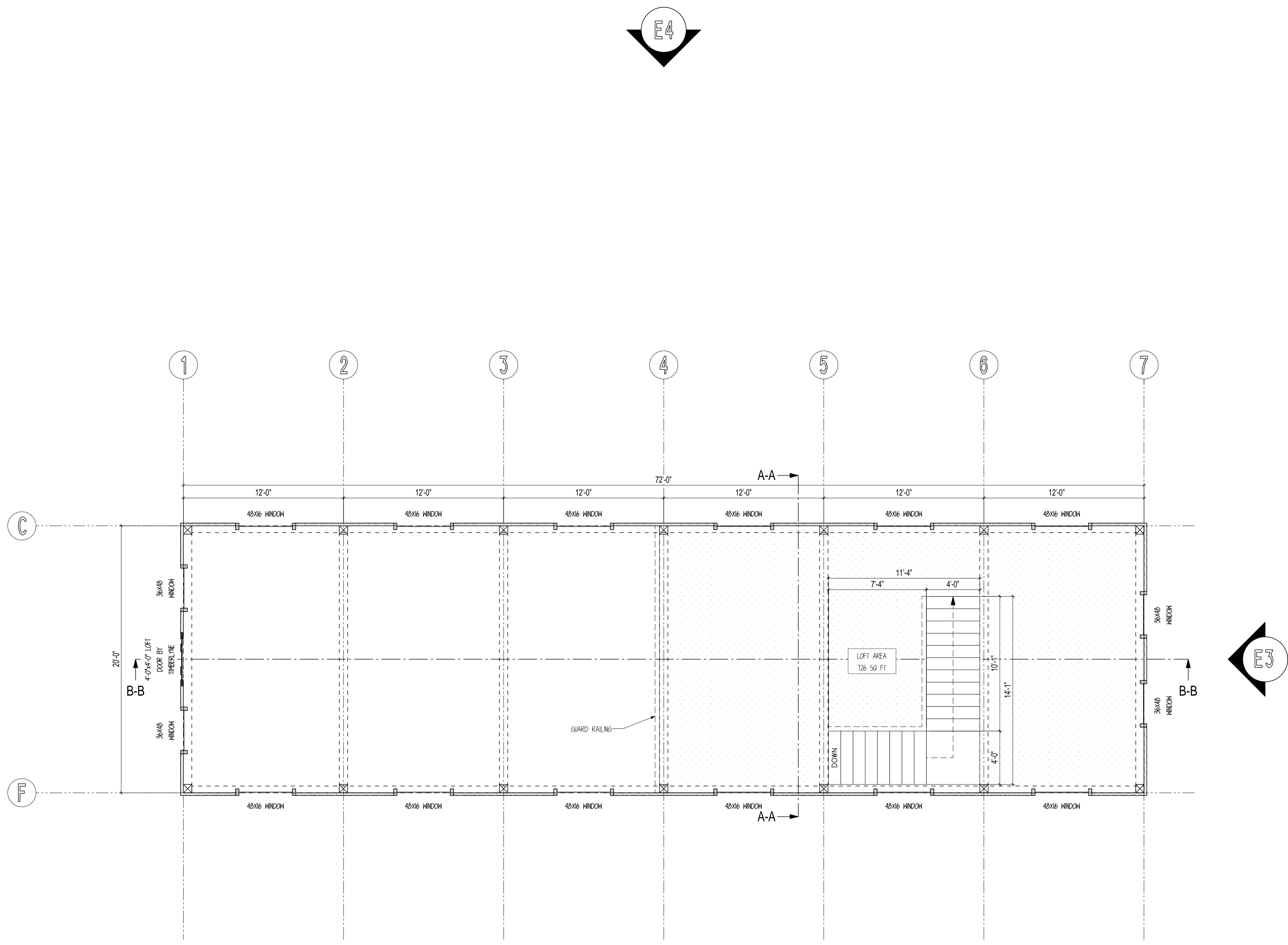
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 Barn**
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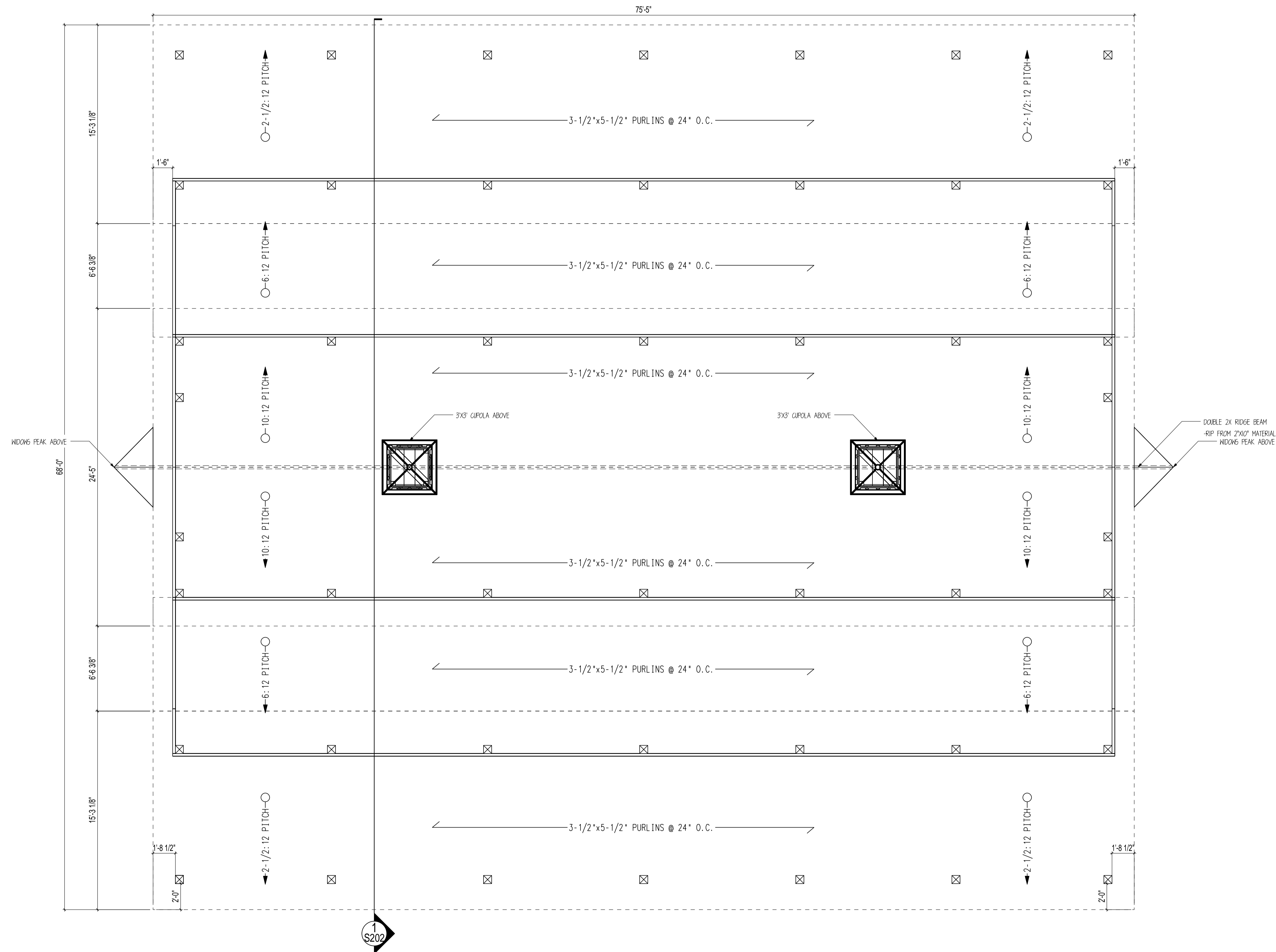
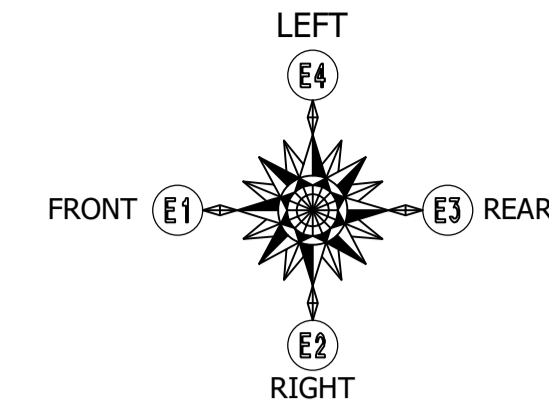
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LOFT FLOOR LAYOUT

SCALE: 1/4" = 1'



ROOF FRAMING PLAN

SCALE: 1/4" = 1'

CUSTOMER INFORMATION:

**MIKE
DEMKOWSKI**

PROJECT INFORMATION:

DEMKOWSKI

Barn

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OTHER: --

OTHER: --

SHEET NOTES

CUSTOMER INFORMATION:
**MIKE
 DEMKOWSKI**

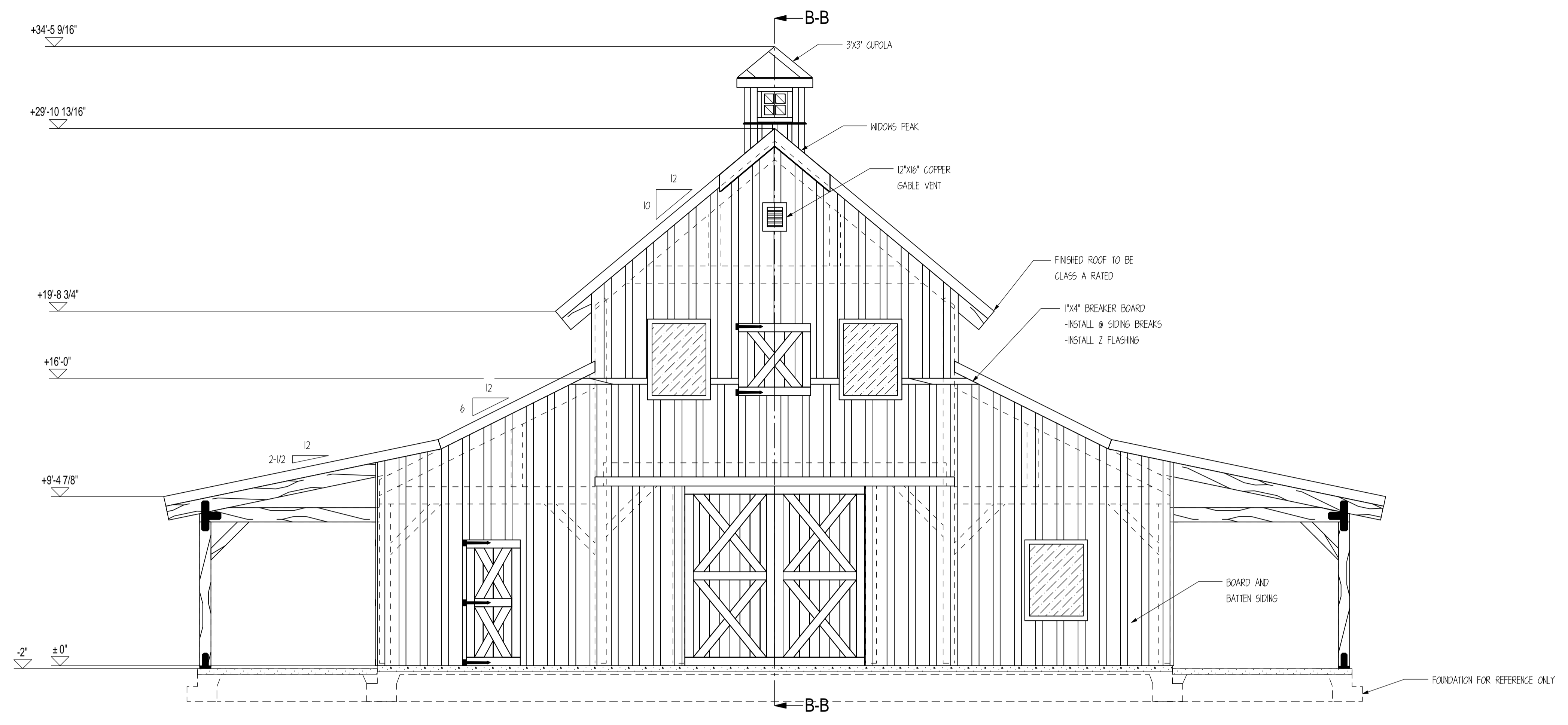
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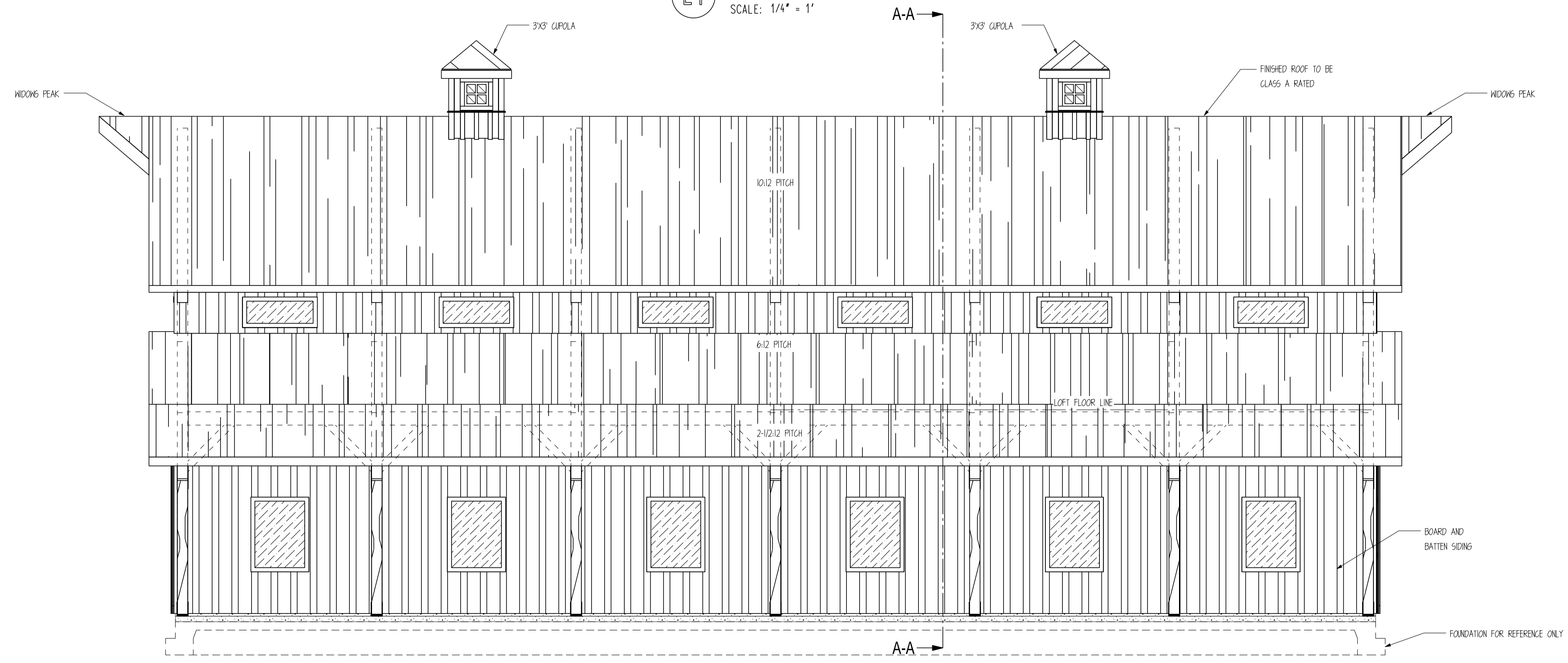
SHEET NOTES

SHEET

D300



E1 FRONT ELEVATION
 SCALE: 1/4" = 1'



E3 REAR ELEVATION
 SCALE: 1/4" = 1'

NOTE: UNLESS NOTED OTHERWISE WINDOWS AND DOORS NOT SUPPLIED BY TIMBERLYNE

SHEET NOTES:
 1. BREAKER BOARD LOCATION IS APPROX. ONLY AND SHOULD BE INSTALLED ON SITE TO MATCH SIDING LENGTH PROVIDED.
 2. DOOR AND WINDOW LOCATIONS ARE APPROX. ONLY. EXACT LOCATIONS TO BE VERIFIED BY CUSTOMER AND GENERAL CONTRACTOR.
 3. FINISHED ROOFING MATERIAL TO BE PROVIDED BY CUSTOMER OR GENERAL CONTRACTOR. ROOFING UNDERLAYMENT PROVIDED BY TIMBERLYNE

CUSTOMER INFORMATION:
**MIKE
 DEMKOWSKI**

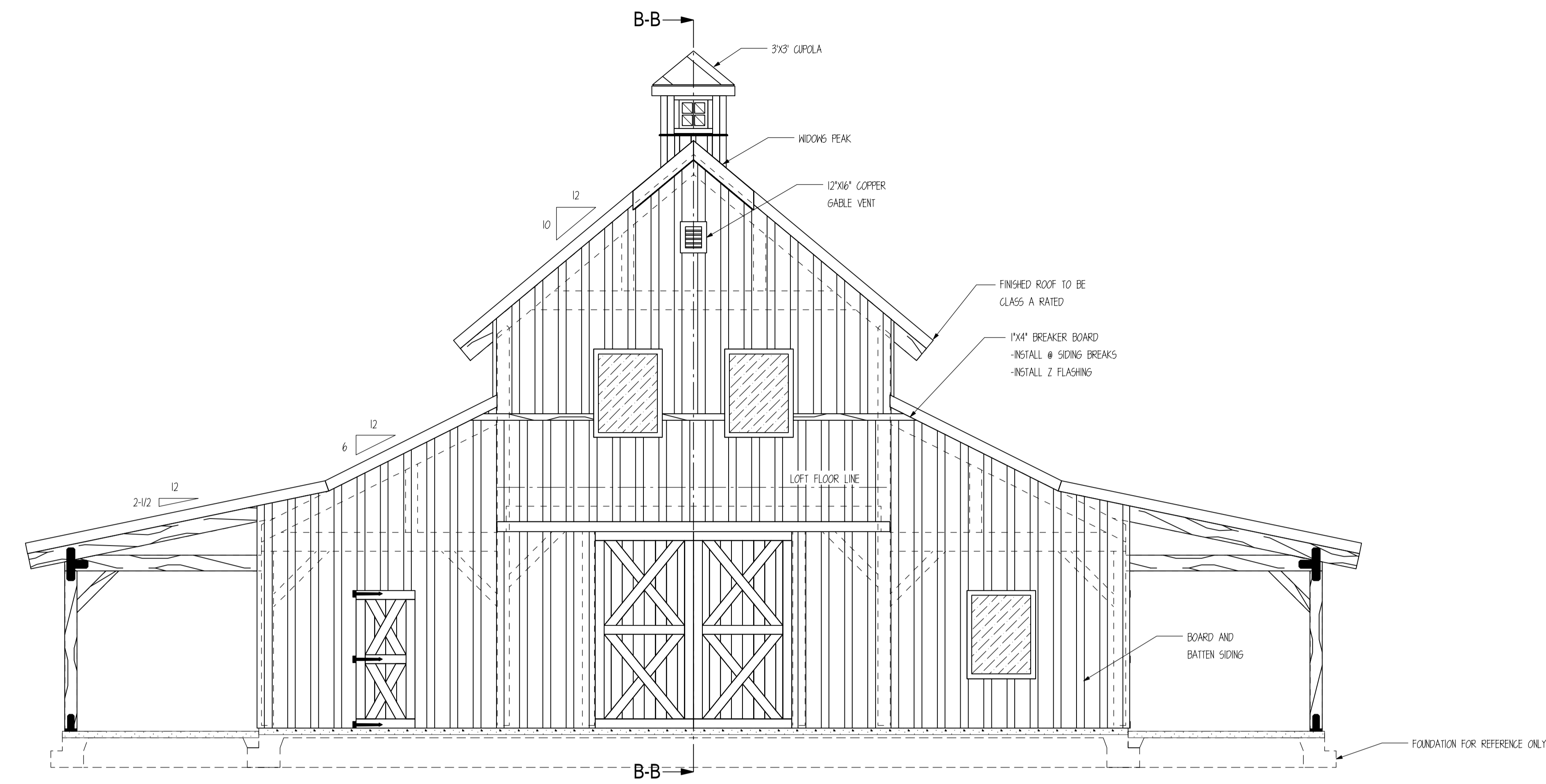
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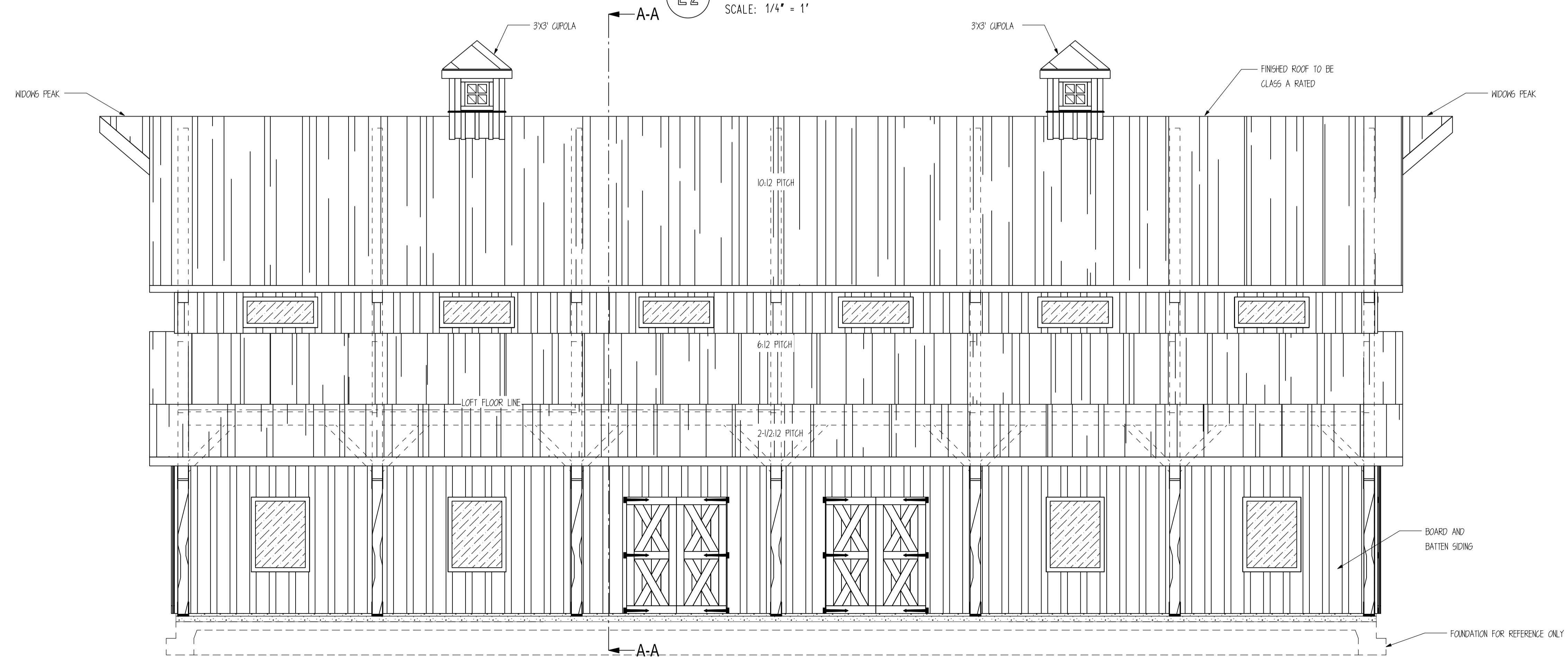
SHEET NOTES

SHEET

D301



E2 RIGHT ELEVATION
 SCALE: 1/4" = 1'



E4 LEFT ELEVATION
 SCALE: 1/4" = 1'

NOTE: UNLESS NOTED OTHERWISE WINDOWS AND DOORS NOT SUPPLIED BY TIMBERLYNE

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STYLE: WESTERN

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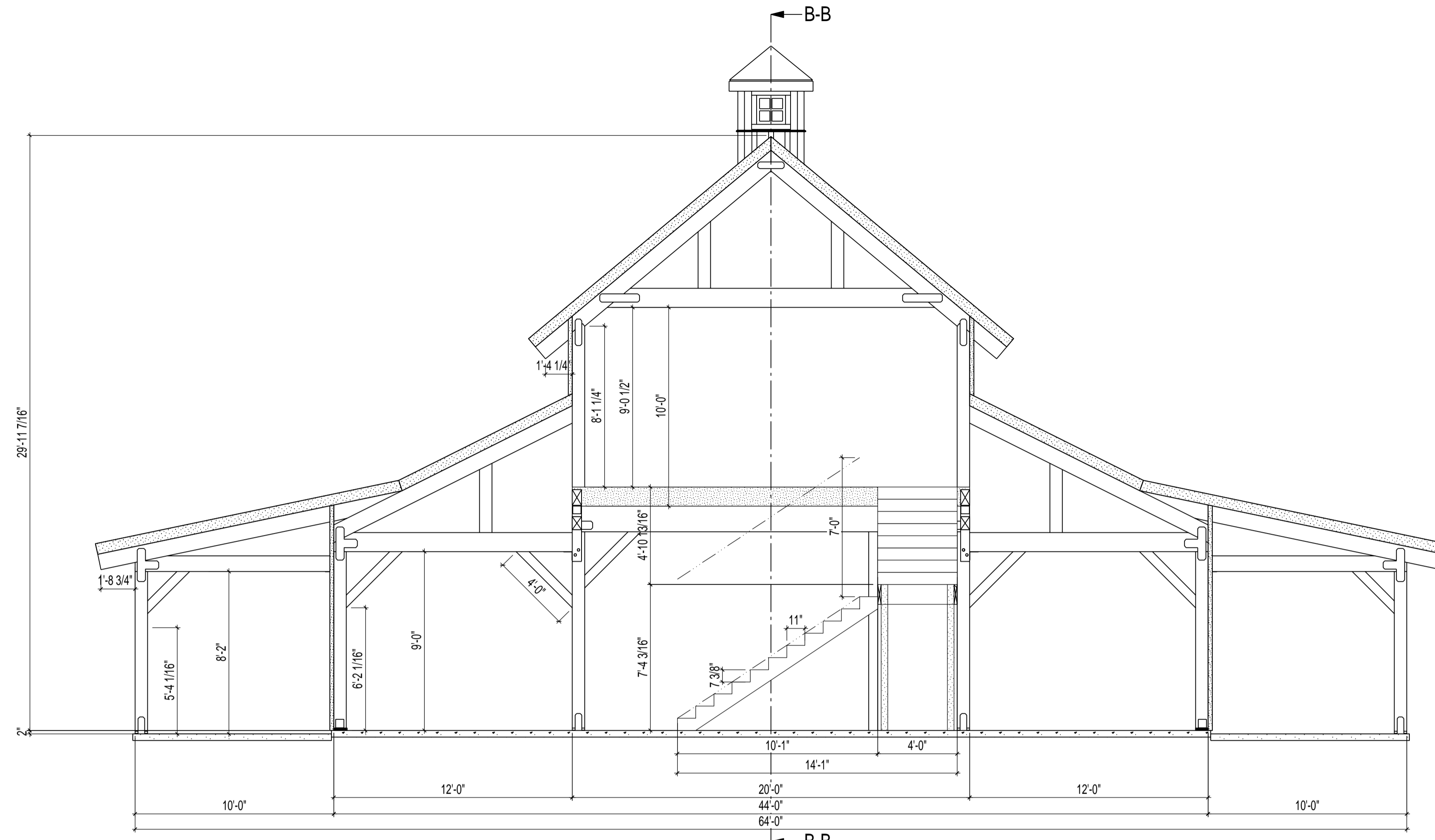
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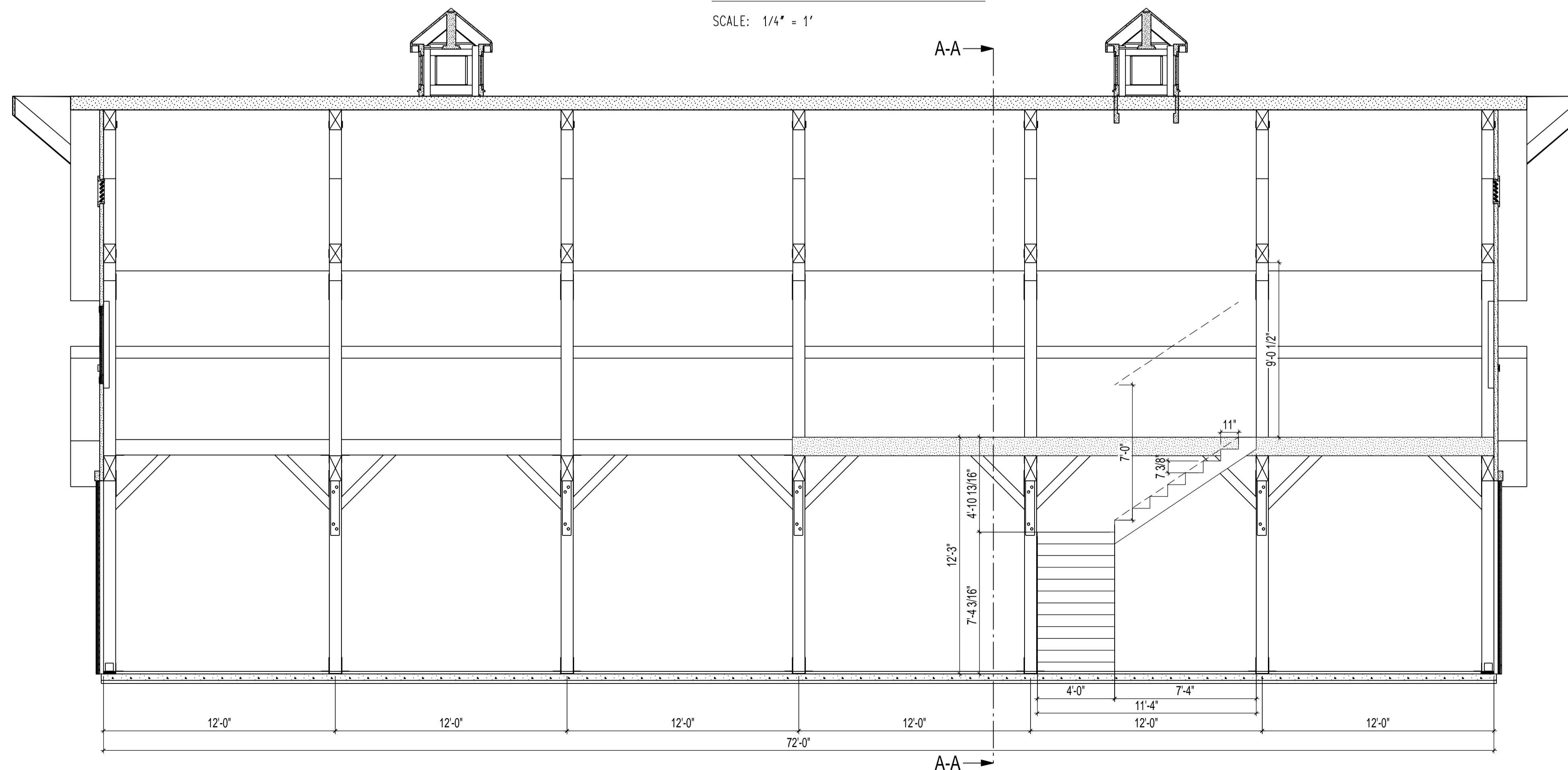
OTHER: --

SHEET NOTES



BUILDING SECTION A-A

SCALE: 1/4" = 1'



BUILDING SECTION B-B

SCALE: 1/4" = 1'

CUSTOMER INFORMATION:

**MIKE
DEMKOWSKI**

PROJECT INFORMATION:

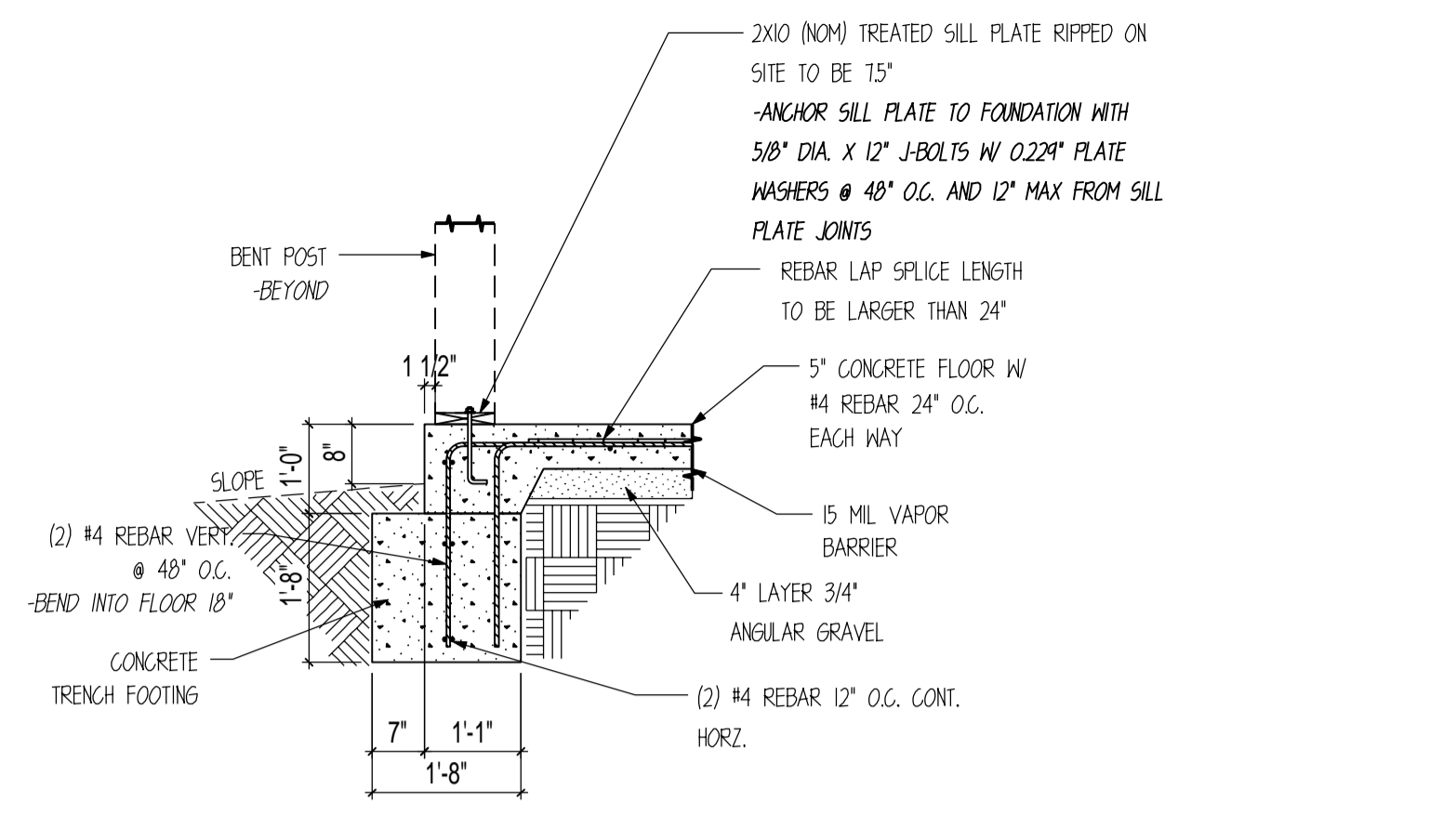
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OTHER: --
PM: WT/CM

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OTHER: --

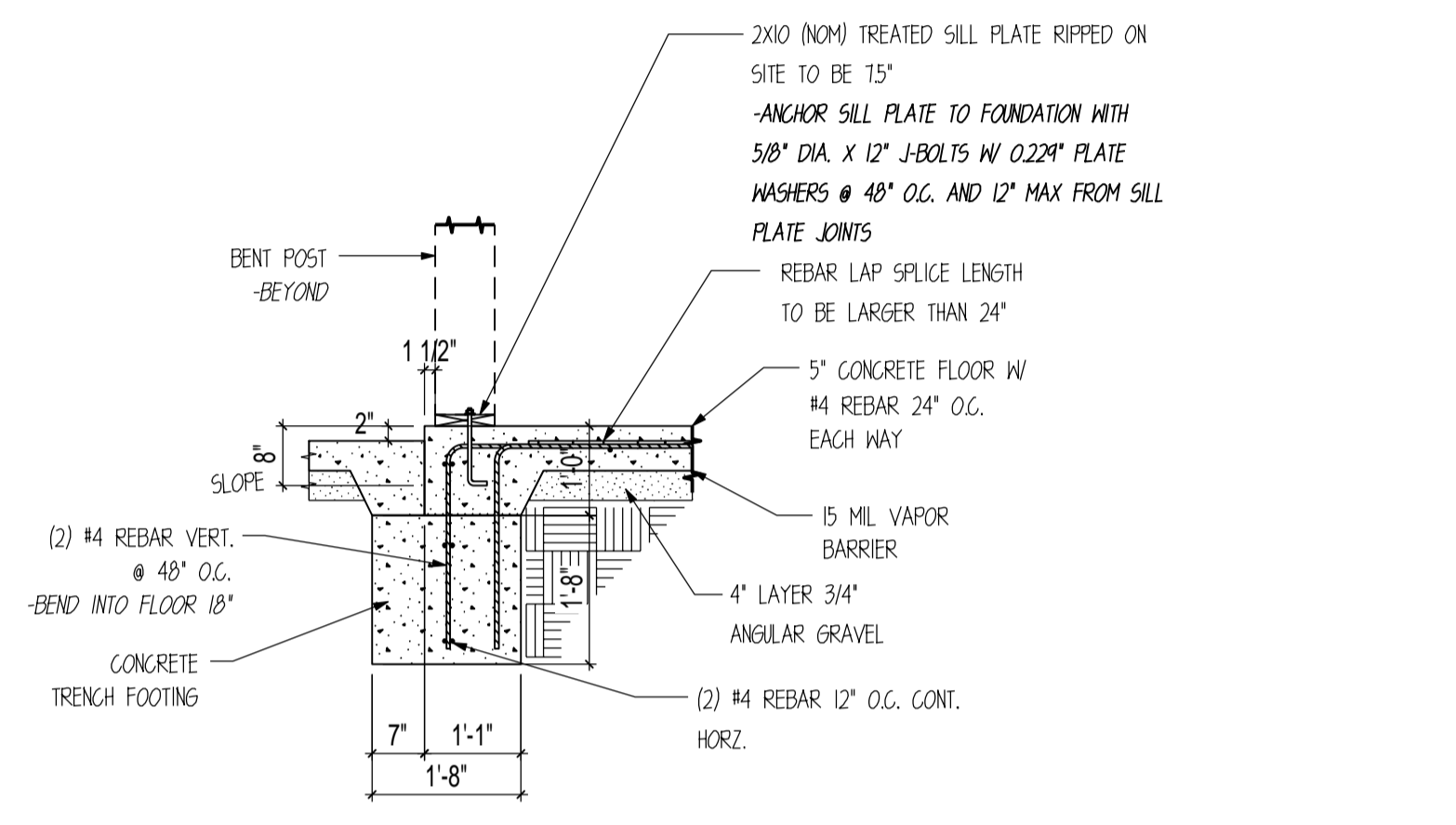
SHEET NOTES

1. FOUNDATION DIMENSIONS TO BE VERIFIED BY GENERAL CONTRACTOR BEFORE ERECTION OF FRAME.
2. CHECK LOCAL CODE FOR MINIMUM FOOTING DEPTH.
3. REFER TO COVER SHEET FOR FURTHER INFORMATION ON FOUNDATION AND REBAR.



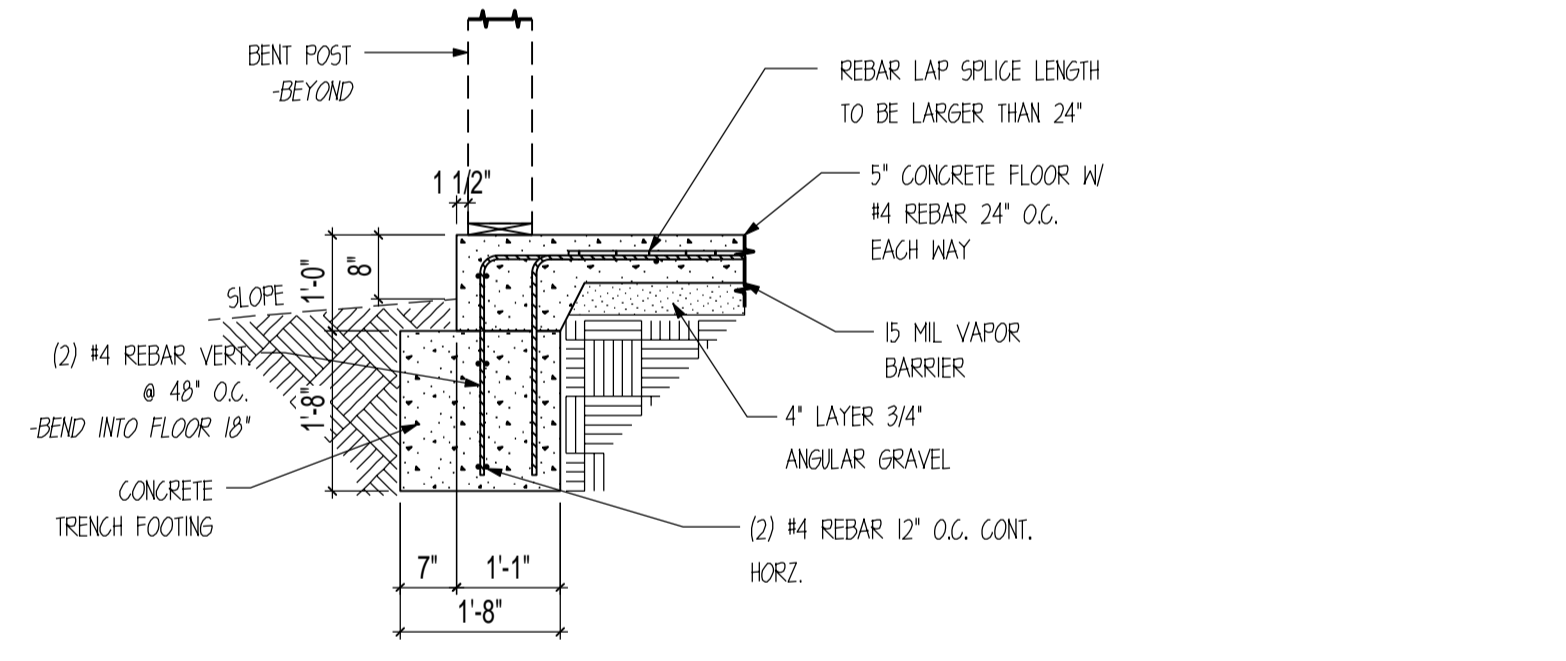
FOUNDATION DETAIL

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



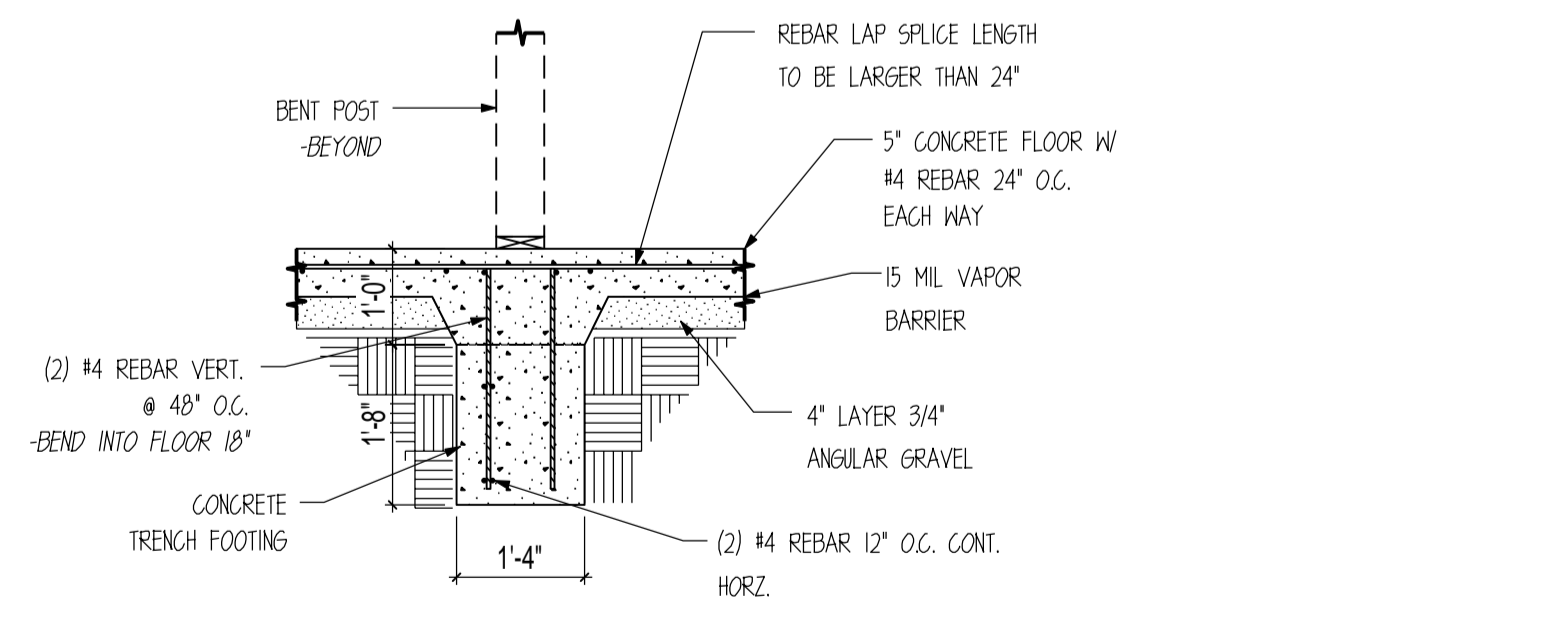
FOUNDATION DETAIL

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



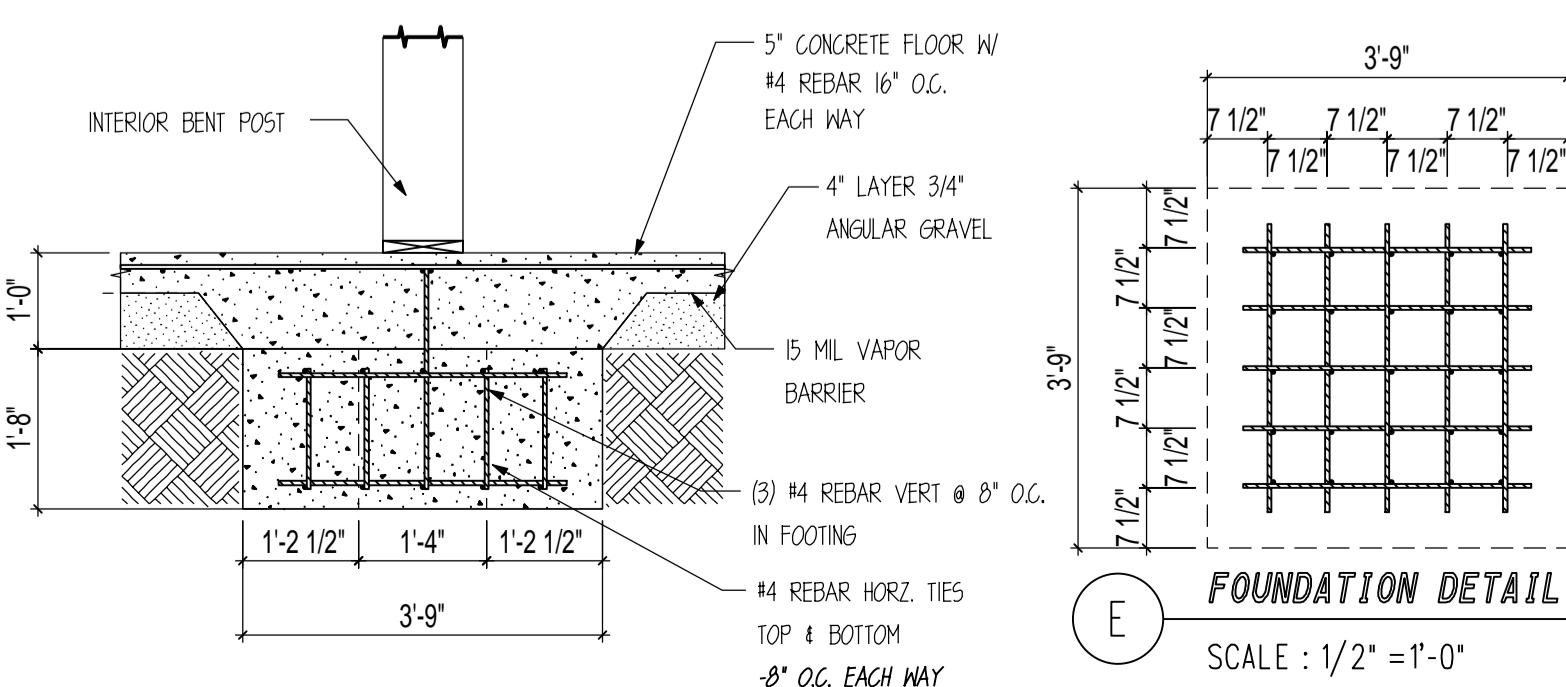
FOUNDATION DETAIL

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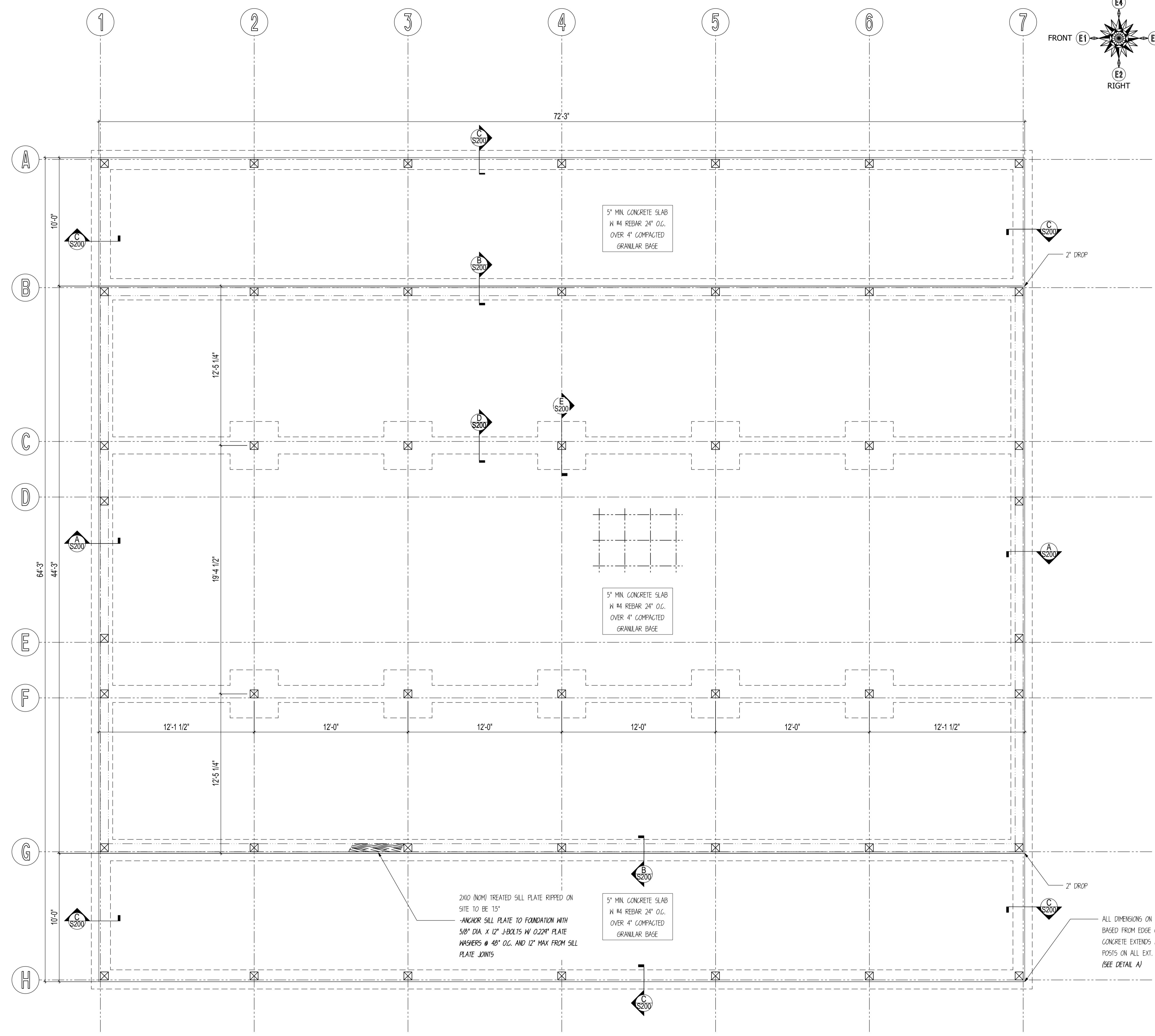
FOUNDATION DETAIL

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



FOUNDATION DETAIL

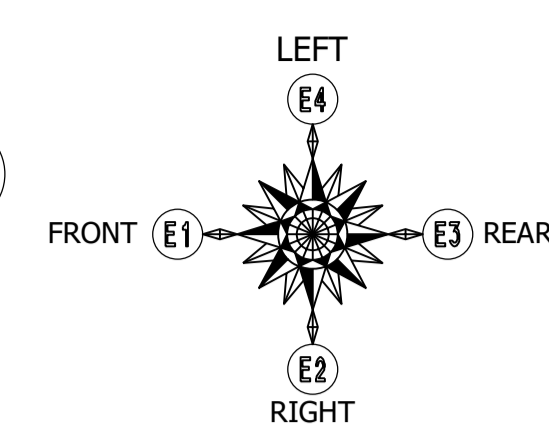
SCALE: 1/2" = 1'-0"



FOUNDATION PLAN

SCALE: 1/4" = 1'

ALL DIMENSIONS ON FOUNDATION PLAN ARE BASED FROM EDGE OF CONCRETE. CONCRETE EXTENDS 1/2" PAST PERIMETER POSTS ON ALL EXT. SIDES FOR GIRT LEDGE (SEE DETAIL A)



CUSTOMER INFORMATION:

MIKE DEMKOWSKI

PROJECT INFORMATION:

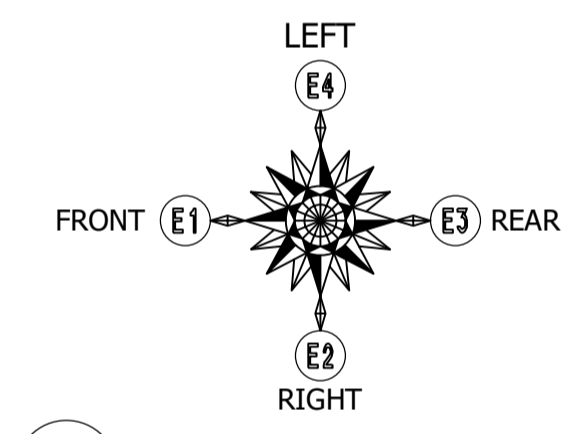
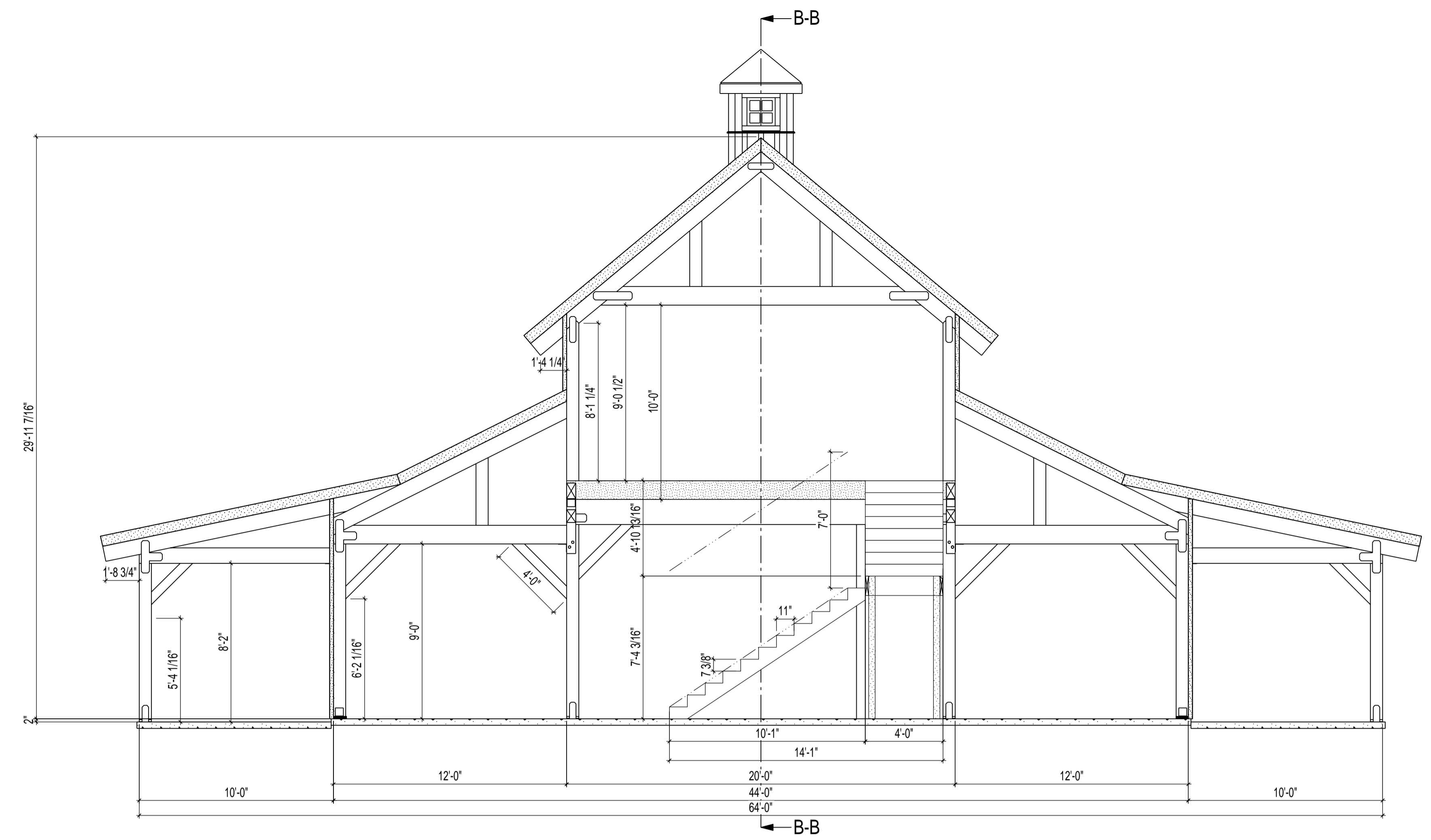
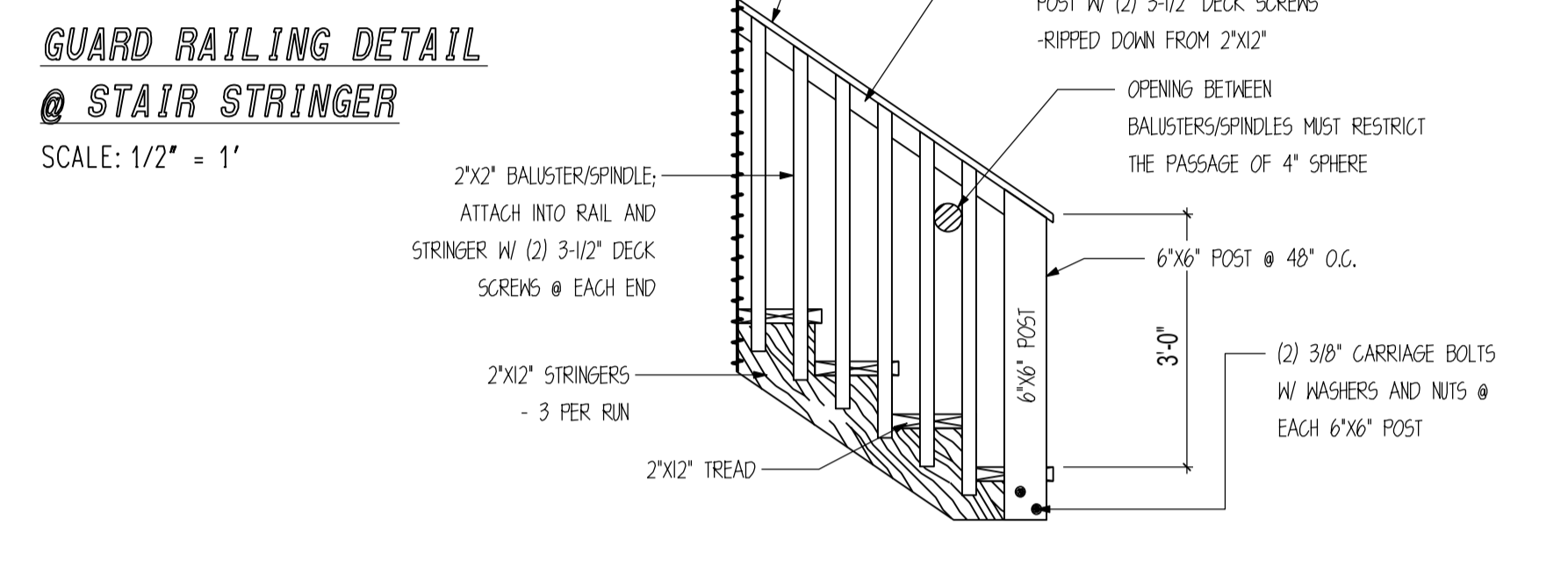
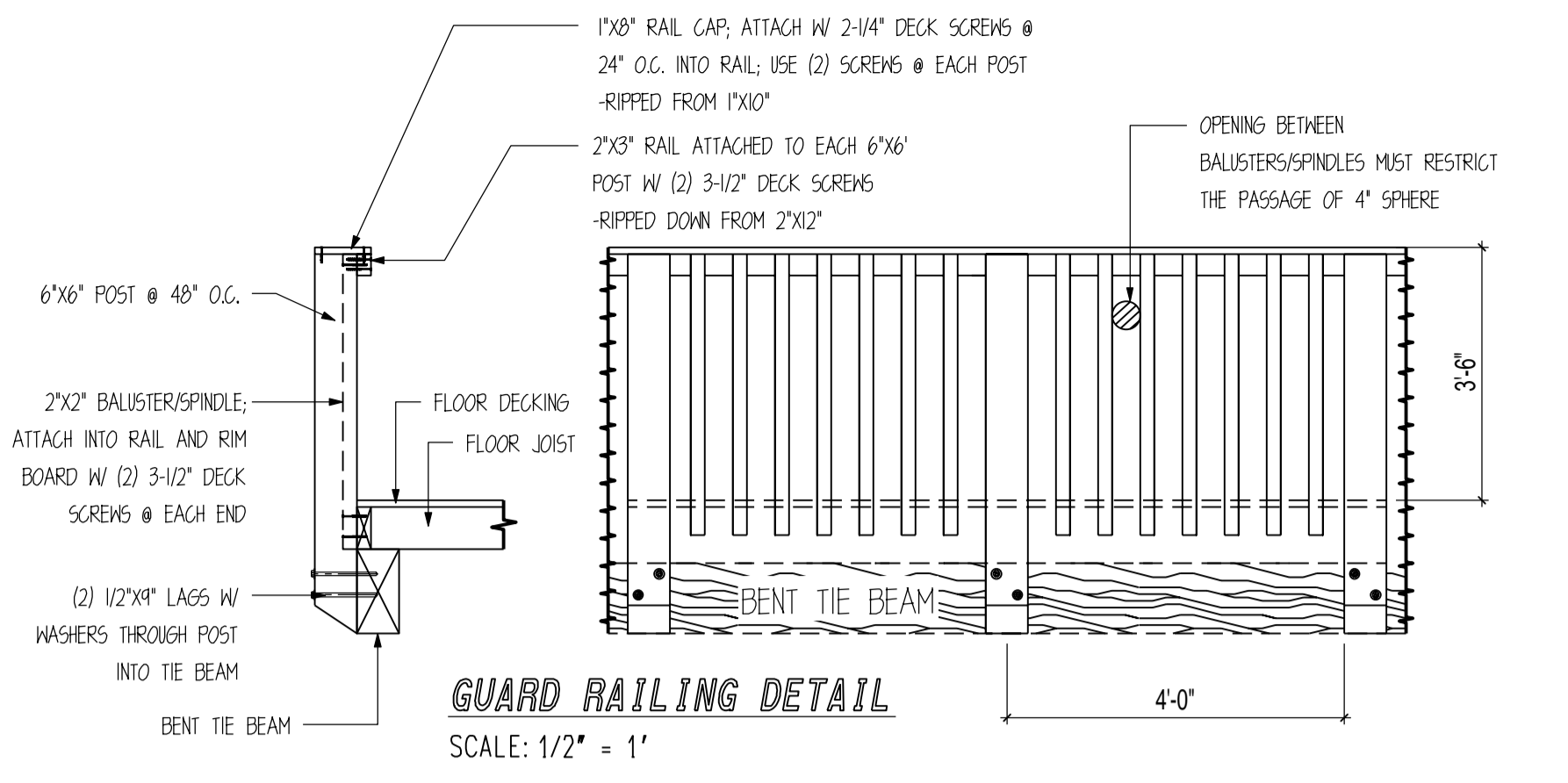
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DRAWING INFORMATION:

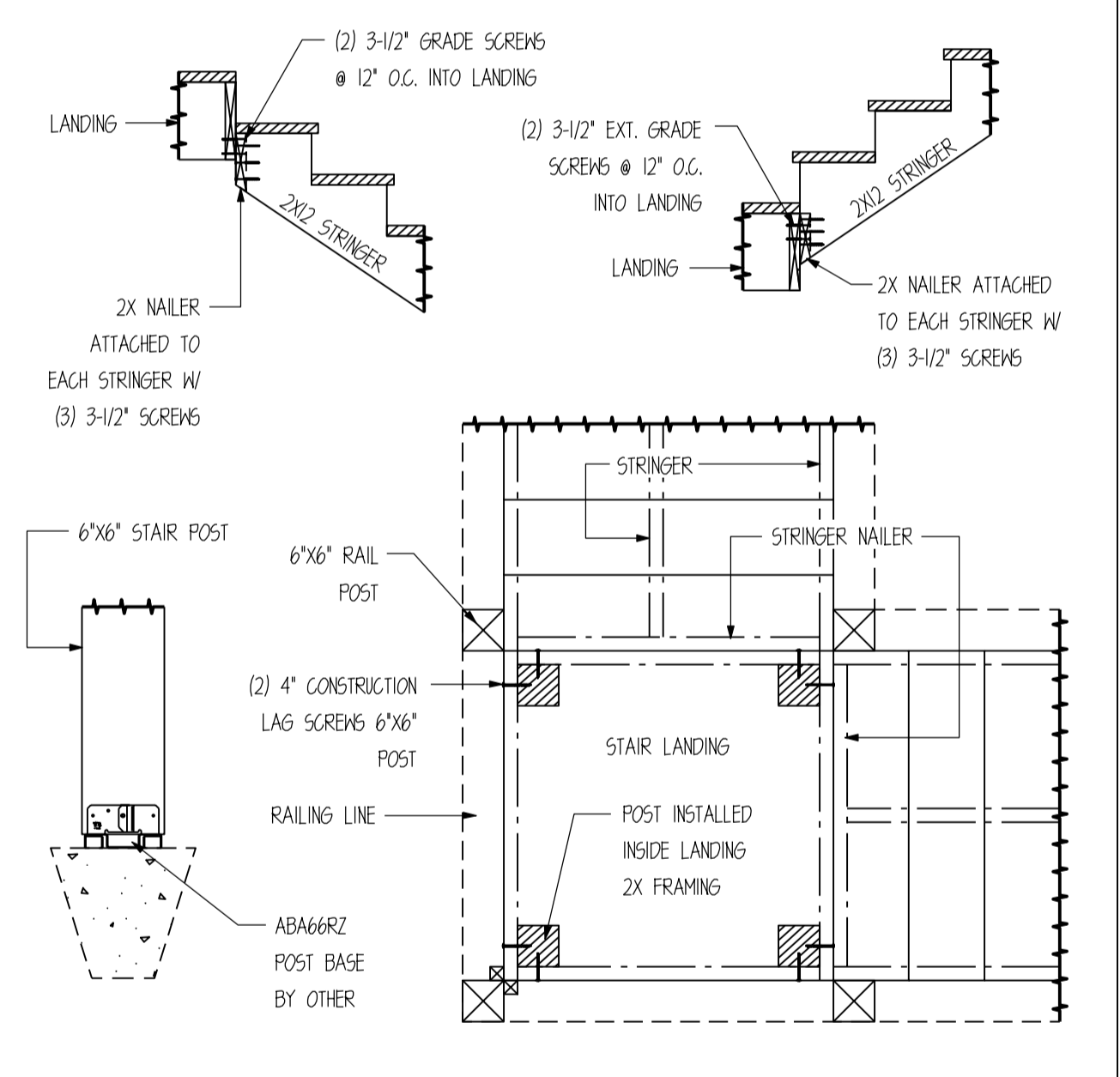
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 OTHER: --
 OTHER: --

SHEET NOTES

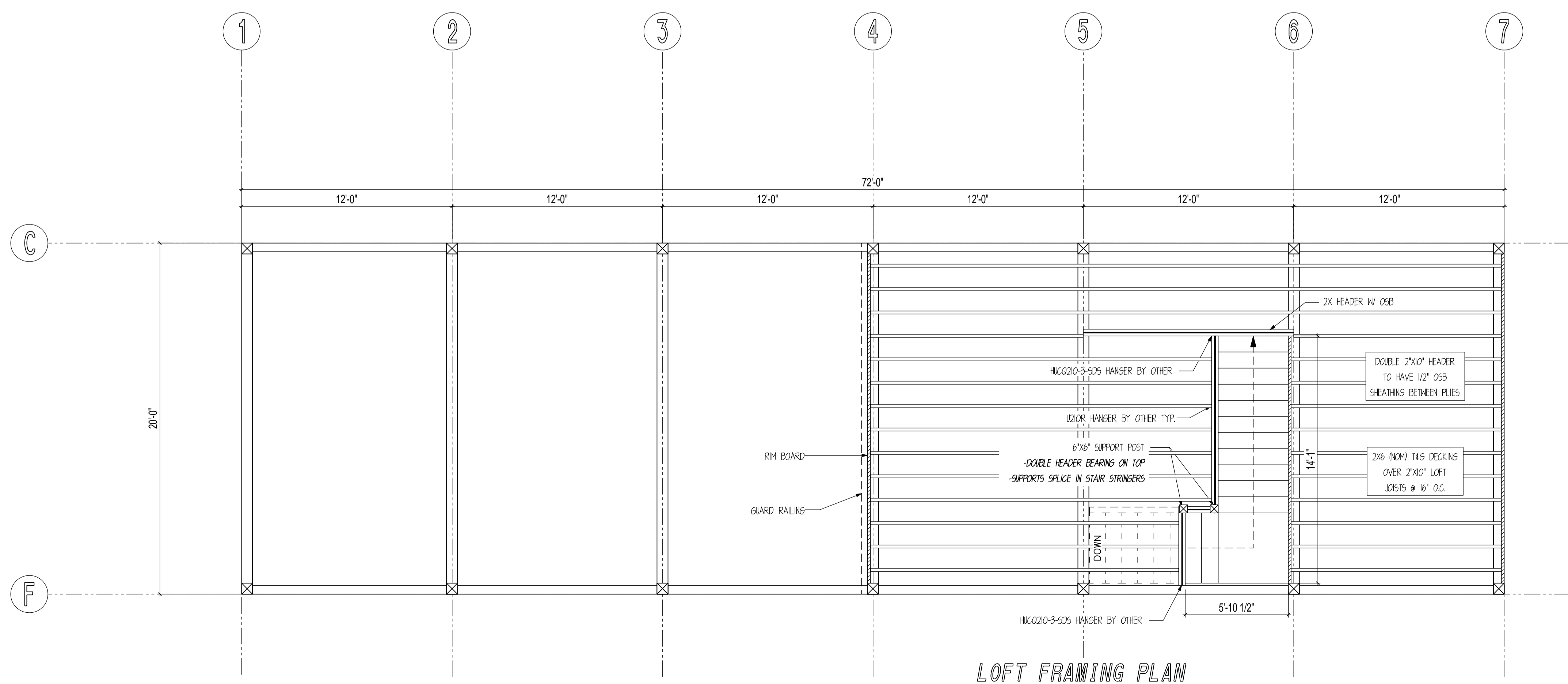
1. INSTALL BLOCKING BETWEEN JOISTS @ ALL ENDS.
2. ALL HANGERS SUPPLIED BY OTHER
3. CUT JOISTS TO SIZE ON SITE

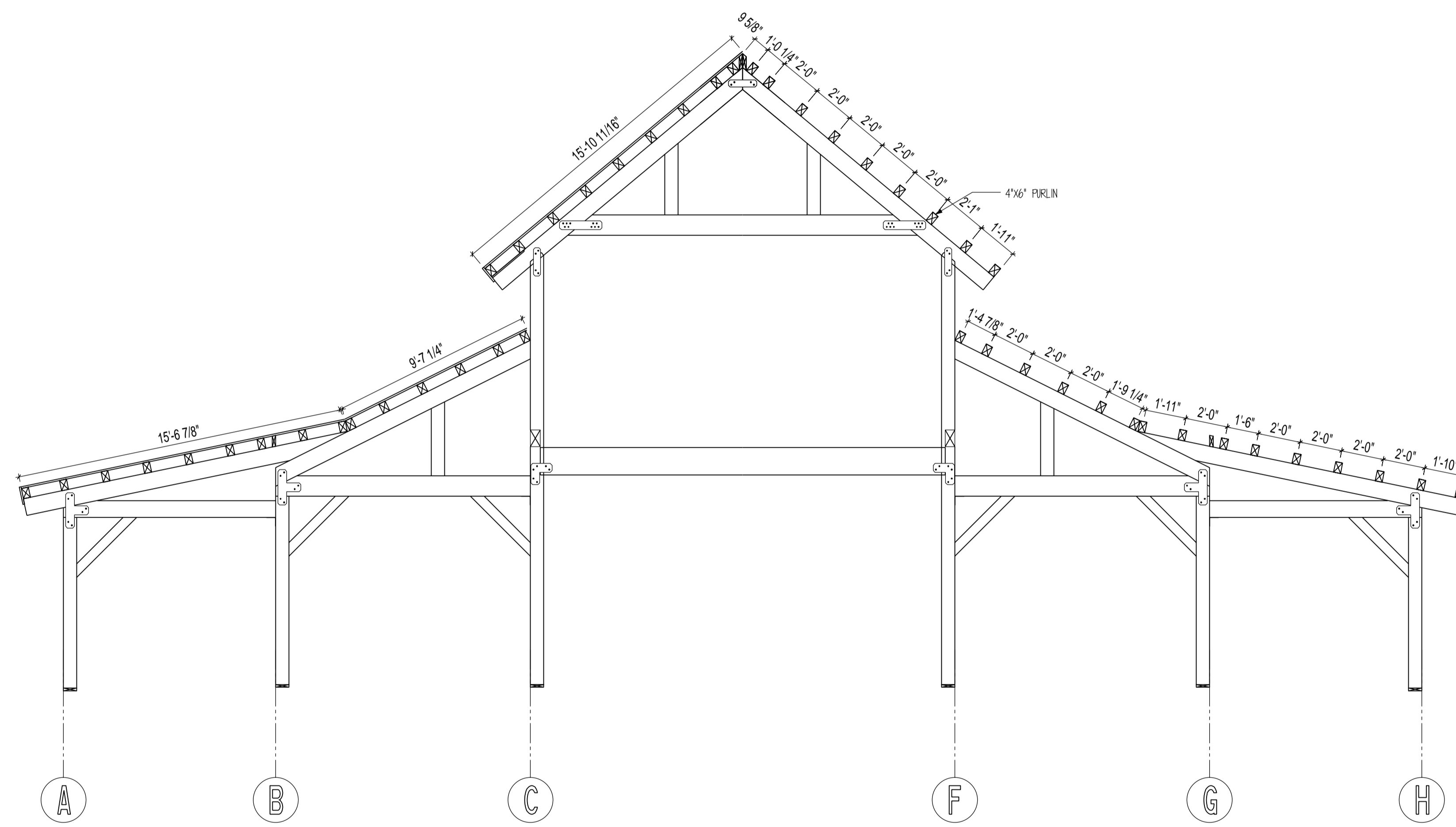


STAIR FRAMING DETAILS



- STAIR FRAMING NOTES:**
1. 12" STRINGERS PROVIDED TO BE CUT TO FIT ON SITE. STAIR RUNG WITH STRINGER LENGTHS LONGER THAN 12" REQUIRE 6x6 POST SUPPORTS AT STRINGER SPLICES.
 2. ANCHORS AND FASTENERS FOR CONSTRUCTING THE STAIR AND RAILING KITS ARE PROVIDED BY GENERAL CONTRACTOR.
 3. THE STANDARD STAIR PACKAGE INCLUDES ENOUGH MATERIALS TO INSTALL RAILING ON BOTH SIDES OF THE STAIRS.





1 PURLIN LAYOUT
SCALE: 1/4" = 1'

CUSTOMER INFORMATION:

**MIKE
DEMKOWSKI**

PROJECT INFORMATION:

**DEMKOWSKI
Barn**

4901 CROY RD.
MORGAN HILL, CA 95037
NUMBER: SCO123-1

CATEGORY: RESIDENTIAL

STYLE: WESTERN

OTHER: --

OTHER: --

PM: WT/CM

DRAWING INFORMATION:

DRAWN BY: AA

DATE: 9/8/2023

STATUS: FINAL PLAN SET

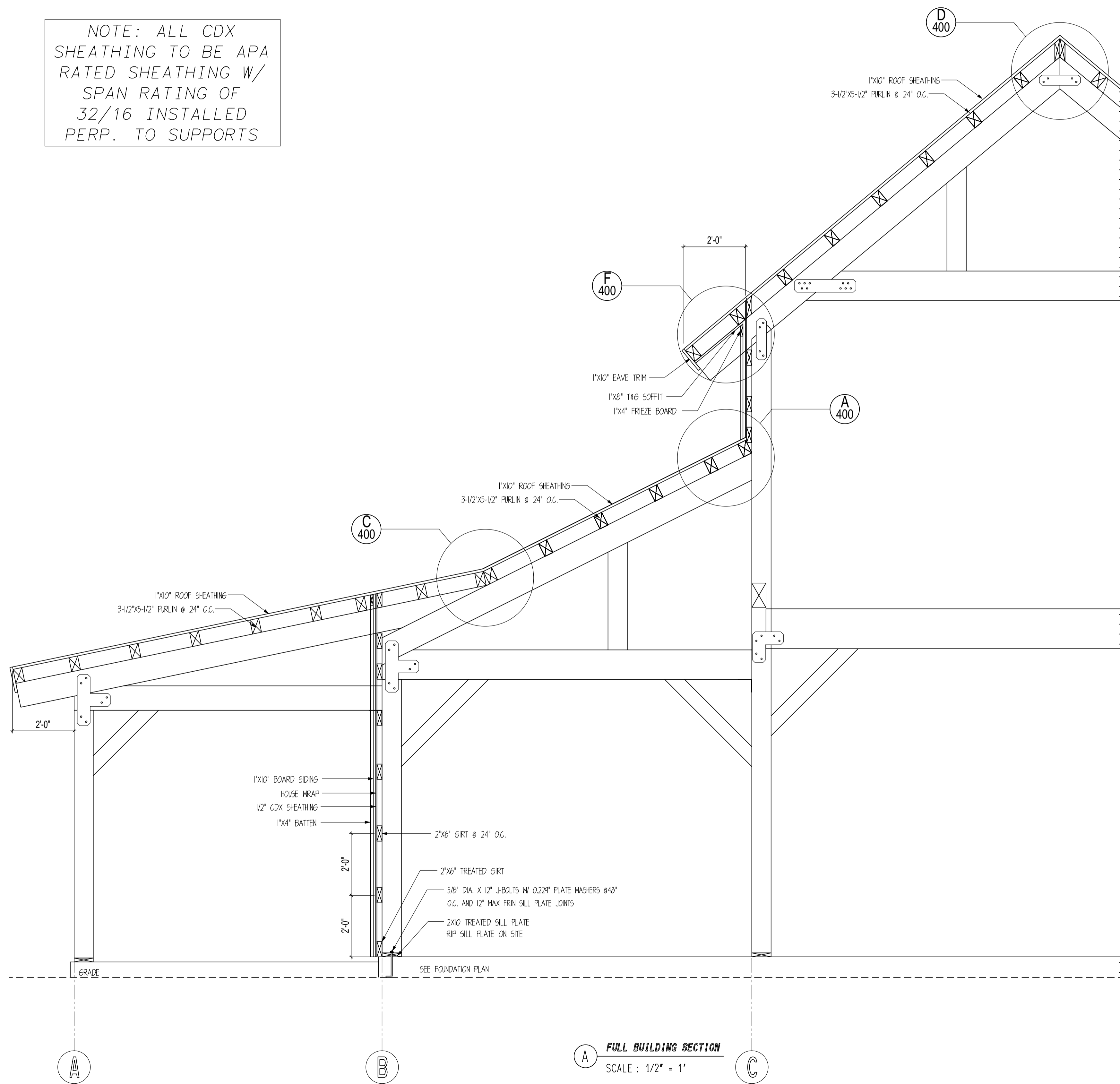
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OTHER: --

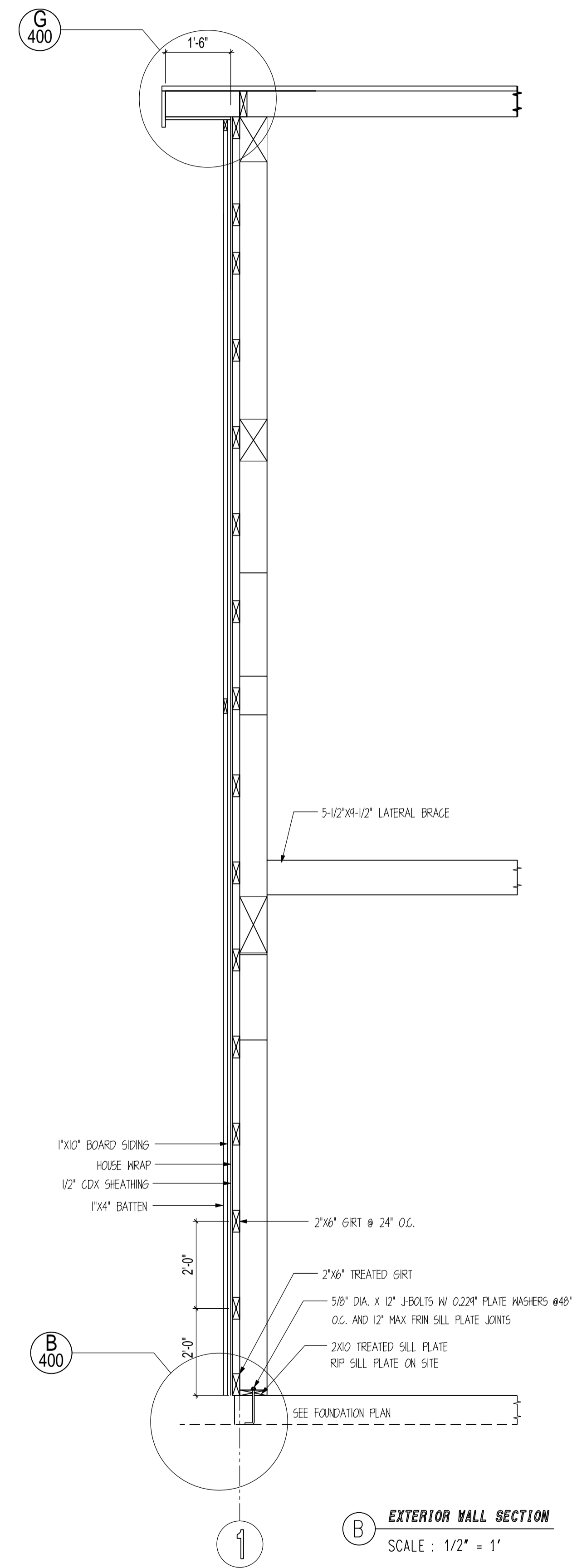
SHEET NOTES

NOTE: EXTERIOR FLASHING TO BE
 INSTALLED AT ALL CONNECTIONS
 BETWEEN ROOFS, WALLS, AND
 PROJECTIONS OR PENETRATIONS
 AS REQUIRED BY GOOD
 CONSTRUCTION PRACTICES.
 FLASHING MATERIALS AND
 DETAILS TO BE PROVIDED BY
 CUSTOMER OR GENERAL
 CONTRACTOR.

NOTE: ALL CDX
 SHEATHING TO BE APA
 RATED SHEATHING W/
 SPAN RATING OF
 32/16 INSTALLED
 PERP. TO SUPPORTS



A FULL BUILDING SECTION
 SCALE: 1/2" = 1'



B EXTERIOR WALL SECTION
 SCALE: 1/2" = 1'

CUSTOMER INFORMATION:

**MIKE
 DEMKOWSKI**

PROJECT INFORMATION:

**DEMKOWSKI
 Barn**

4901 CROY RD.
 MORGAN HILL, CA 95037
 NUMBER: SCO123-1

CATEGORY: RESIDENTIAL

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DATE: 9/8/2023

STATUS: FINAL PLAN SET

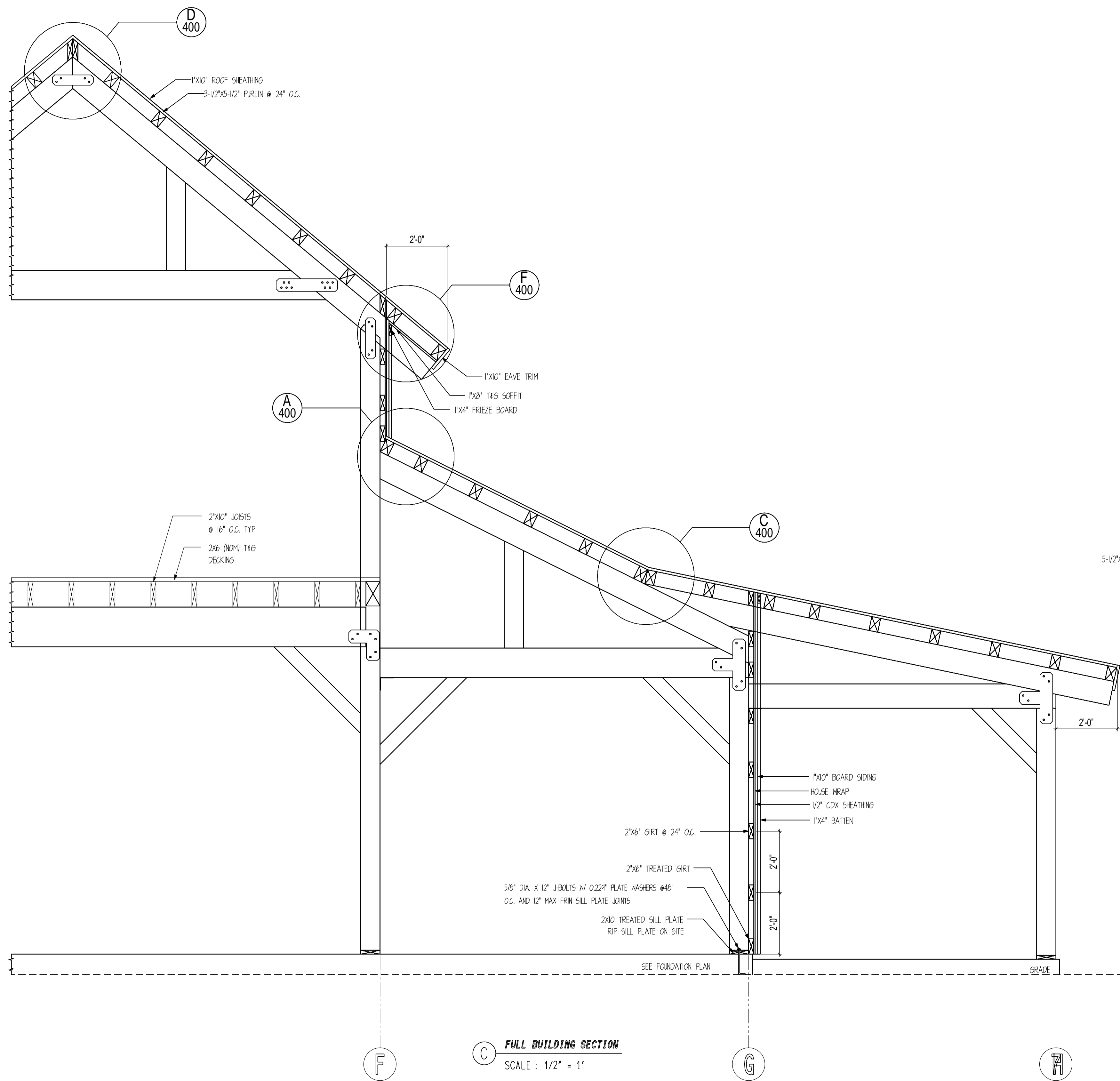
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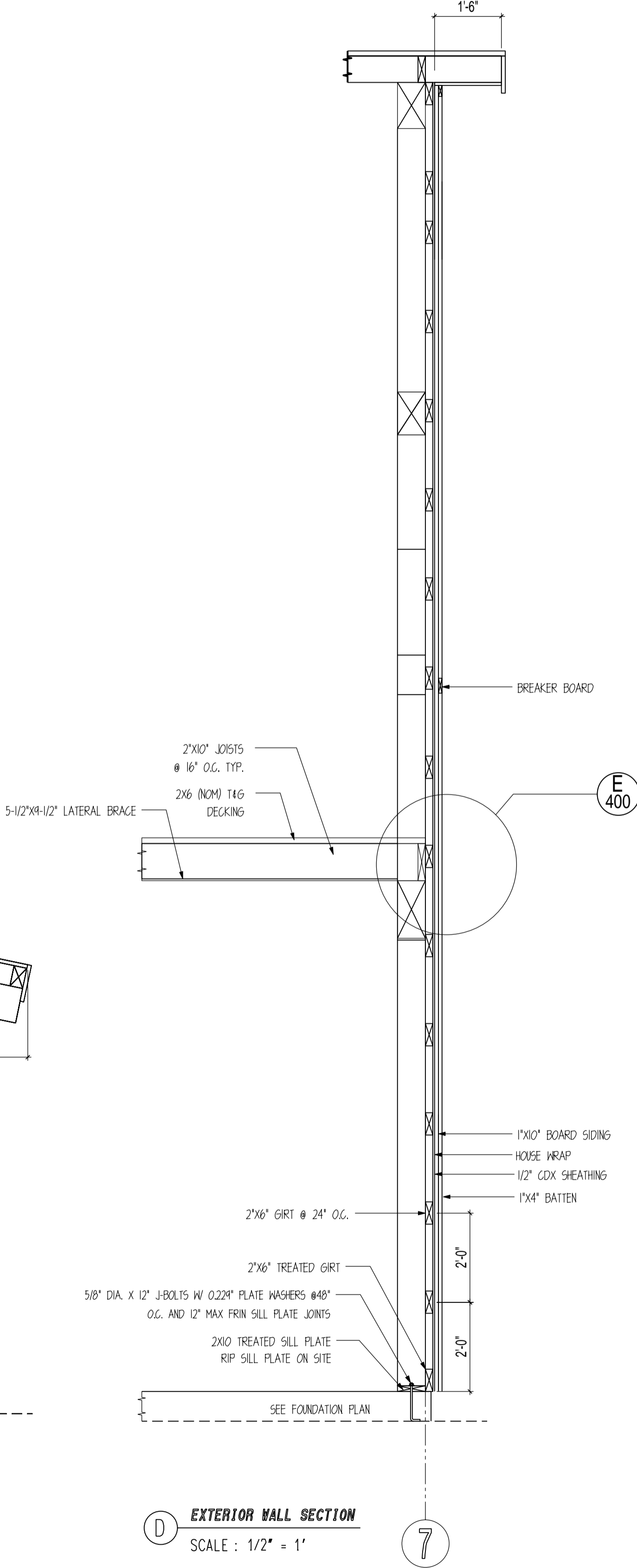
SHEET NOTES

NOTE: EXTERIOR FLASHING TO BE
 INSTALLED AT ALL CONNECTIONS
 BETWEEN ROOFS, WALLS, AND
 PROJECTIONS OR PENETRATIONS
 AS REQUIRED BY GOOD
 CONSTRUCTION PRACTICES.
 FLASHING MATERIALS AND
 DETAILS TO BE PROVIDED BY
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 CONTRACTOR.

NOTE: ALL CDX
 SHEATHING TO BE APA
 RATED SHEATHING W/
 SPAN RATING OF
 32/16 INSTALLED
 PERP. TO SUPPORTS



C FULL BUILDING SECTION
 SCALE : 1/2" = 1'



D EXTERIOR WALL SECTION
 SCALE : 1/2" = 1'

CUSTOMER INFORMATION:
**MIKE
 DEMKOWSKI**

PROJECT INFORMATION:
**DEMKOWSKI
 Barn**
 4901 CROY RD.
 MORGAN HILL, CA 95037
 NUMBER: SCO123-1
 CATEGORY: RESIDENTIAL
 STYLE: WESTERN
 OTHER: --
 OTHER: --
 PM: WT/CM

DRAWING INFORMATION:
 DRAWN BY: AA
 DATE: 9/8/2023
 STATUS: FINAL PLAN SET
 OTHER: --
 OTHER: --

SHEET NOTES

CUSTOMER INFORMATION:

**MIKE
DEMKOWSKI**

PROJECT INFORMATION:

DEMKOWSKI

Barn

4901 CROY RD.

MORGAN HILL, CA 95037

NUMBER: SCO123-1

CATEGORY: RESIDENTIAL

STYLE: WESTERN

OTHER: --

OTHER: --

PM: WT/CM

DRAWING INFORMATION:

DRAWN BY: AA

DATE: 9/8/2023

STATUS: FINAL PLAN SET

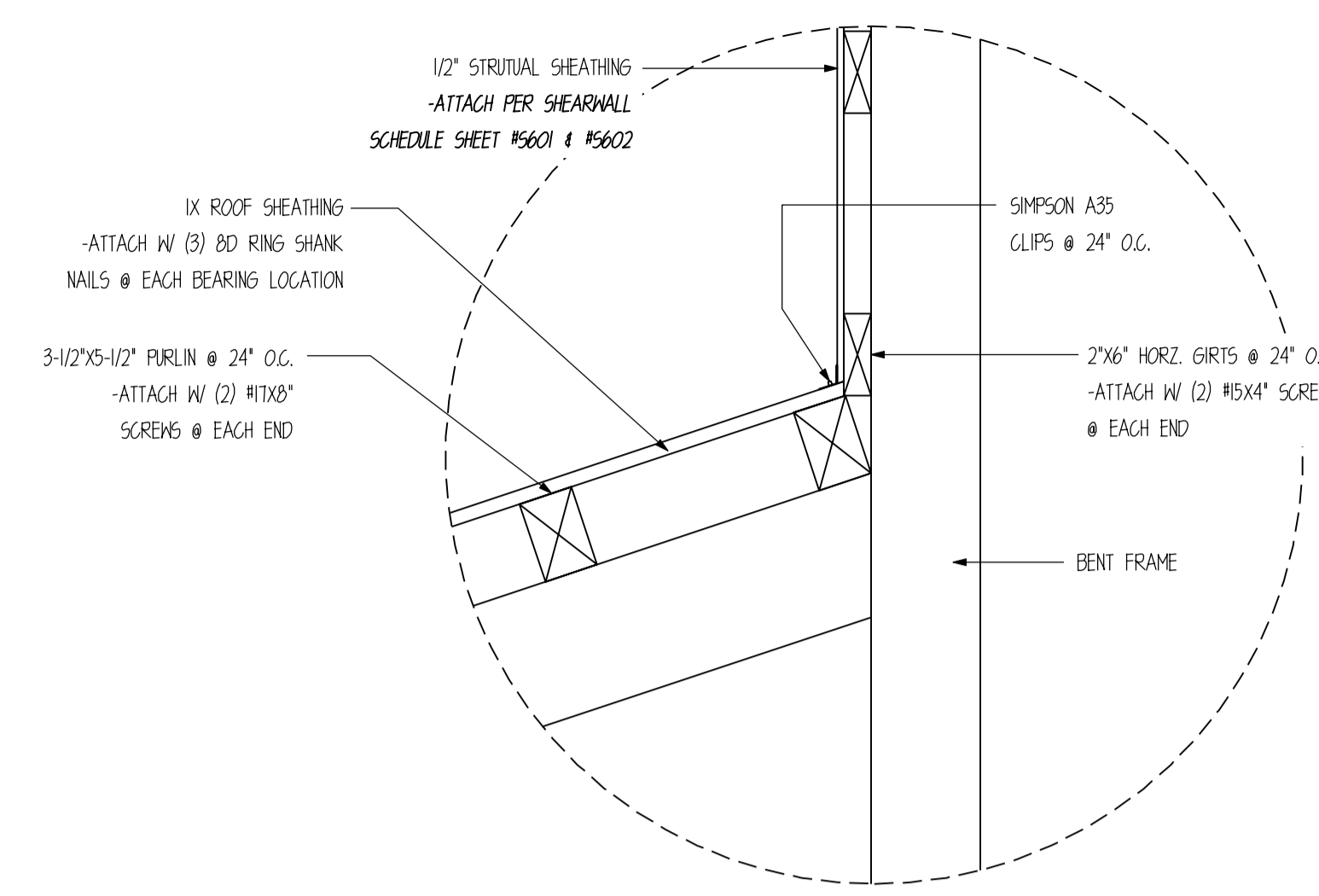
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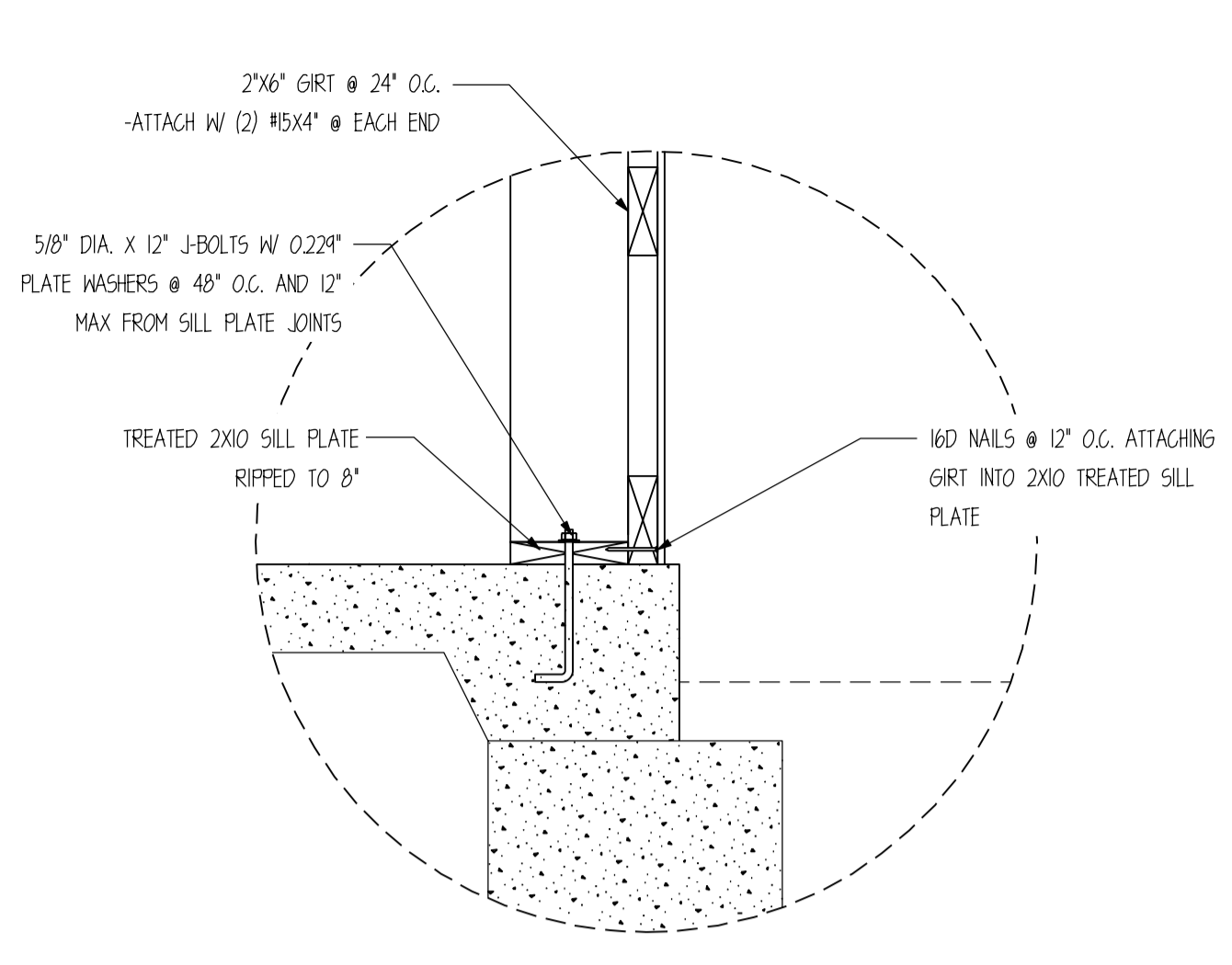
SHEET NOTES

SHEET

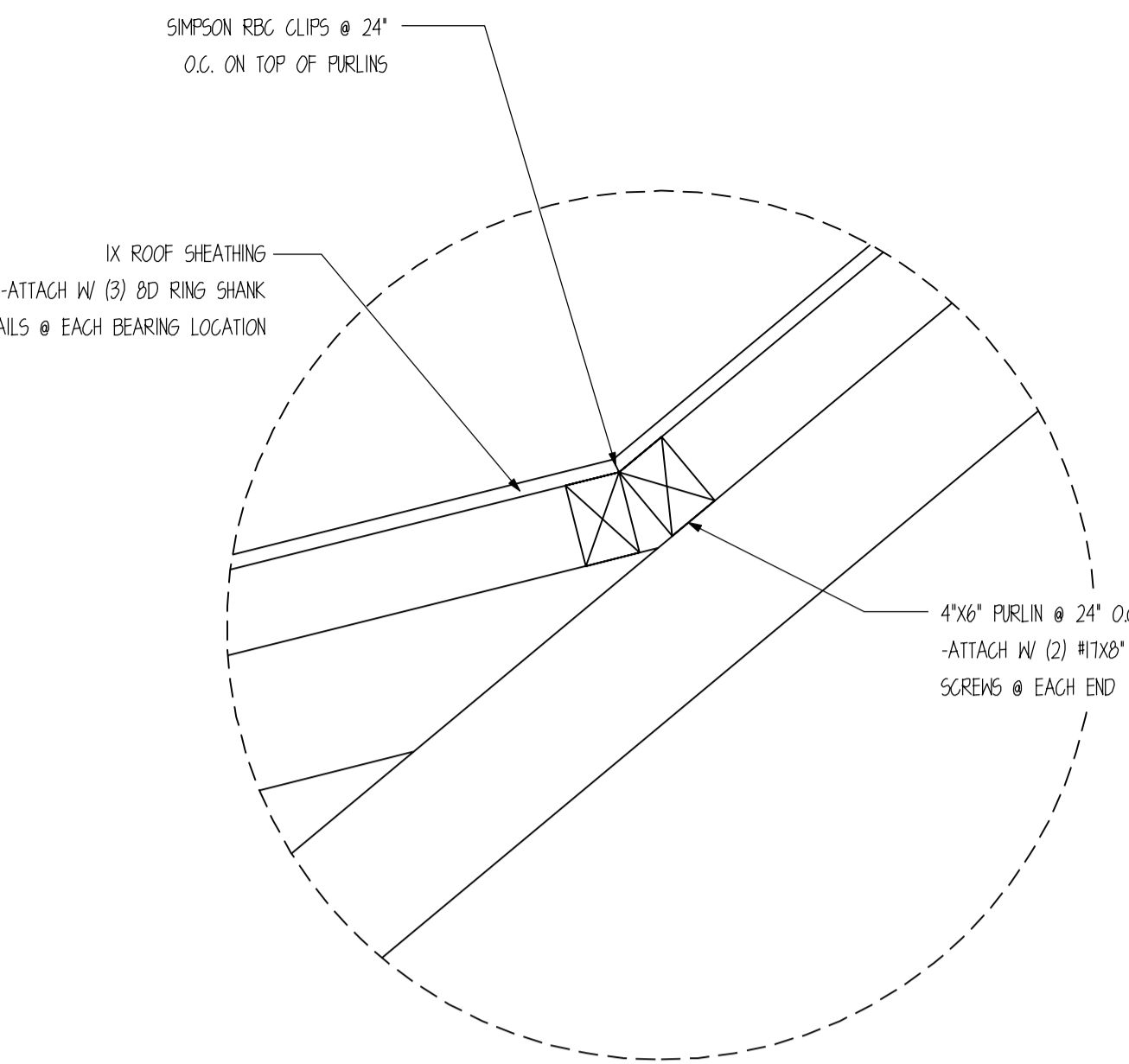
S400



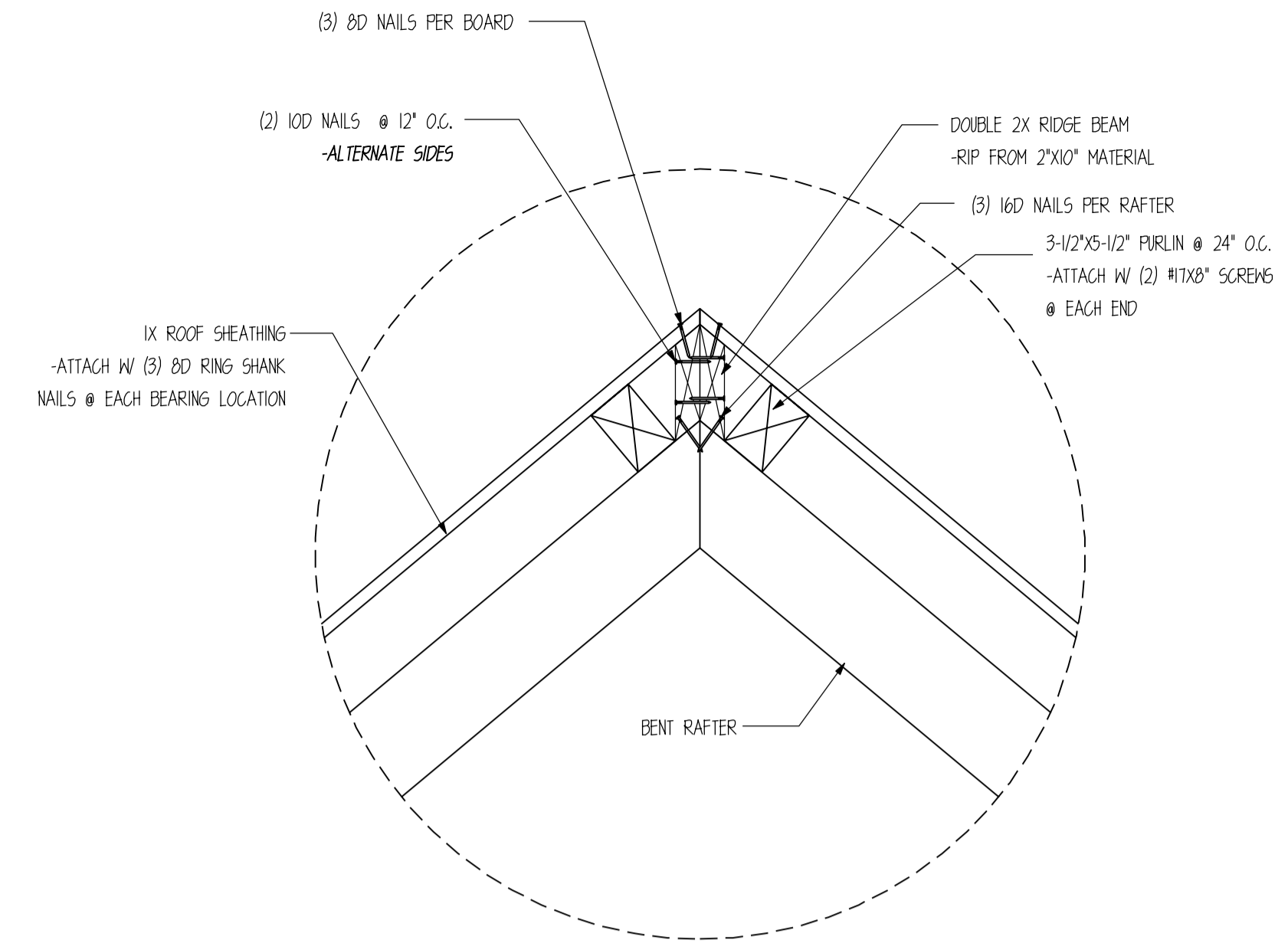
**A WALL AND ROOF ATTACHMENT
DETAILS @ LEAN TO/MAIN
BARN CONNECTION**
SCALE: 1" = 1"



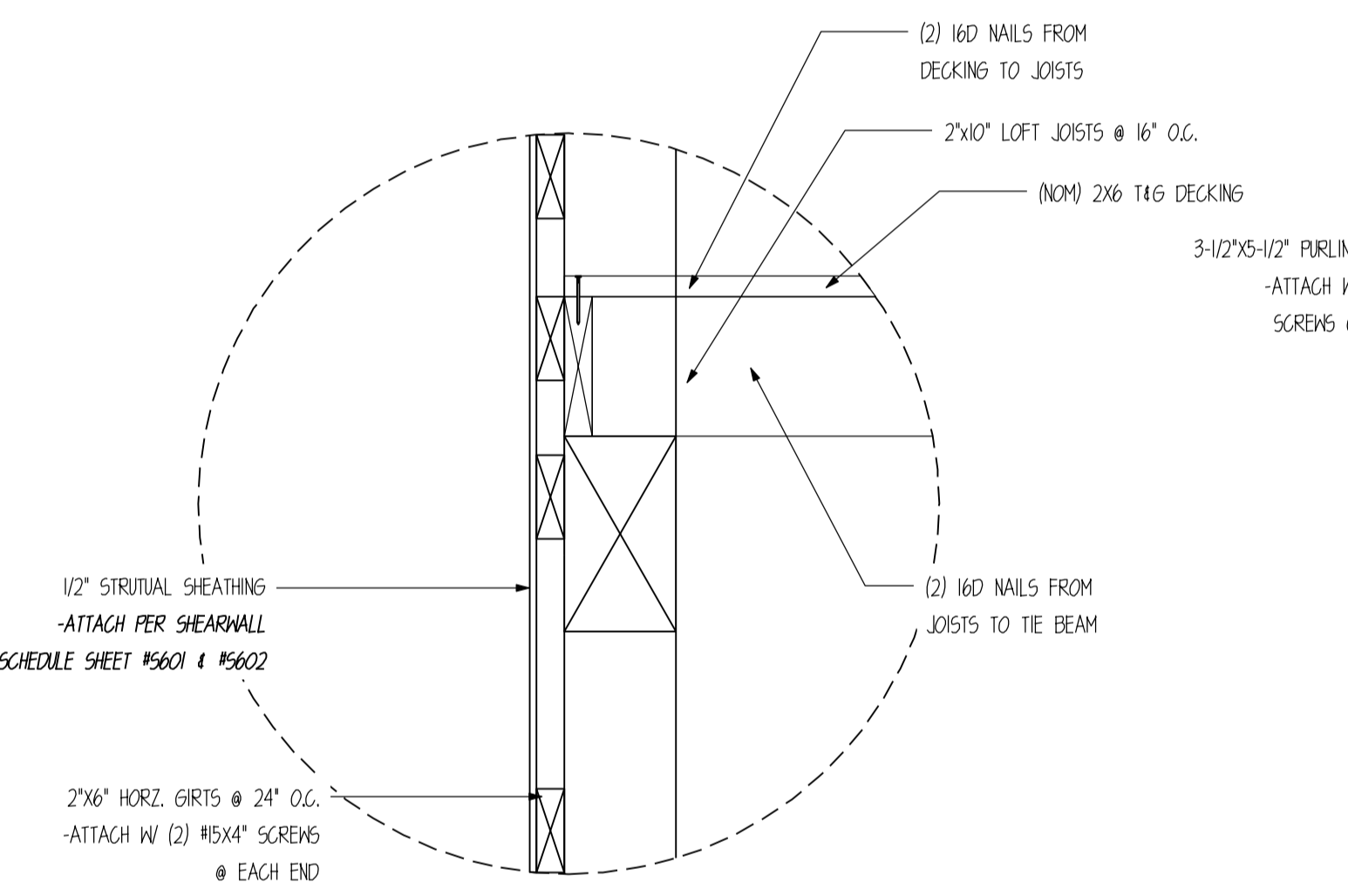
**B WALL ATTACHMENT
DETAILS @ SILL PLATE**
SCALE: 1" = 1"



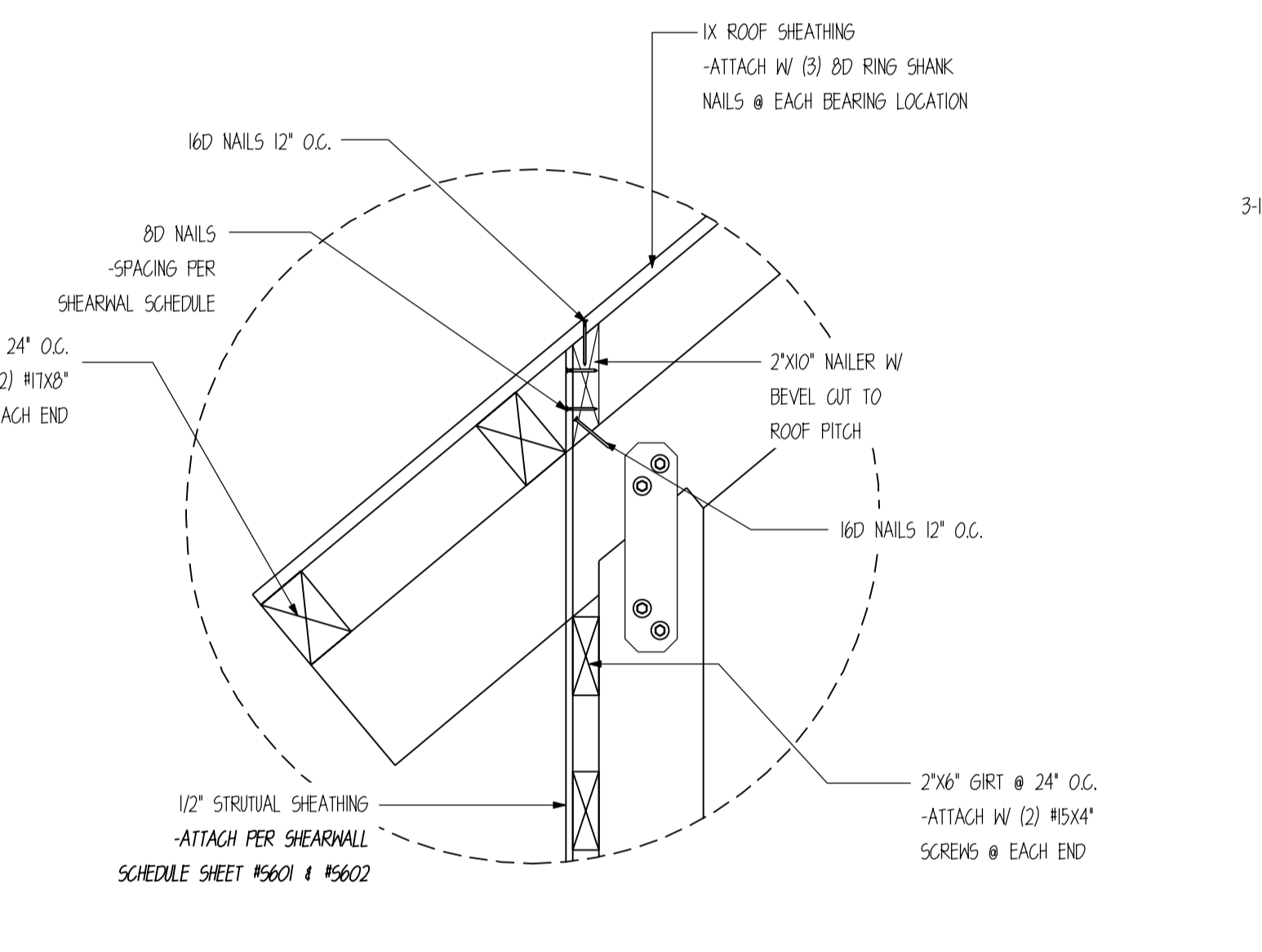
**C DOUBLE PURLIN ATTACHMENT
@ PITCH CHANGE**
SCALE: 1" = 1"



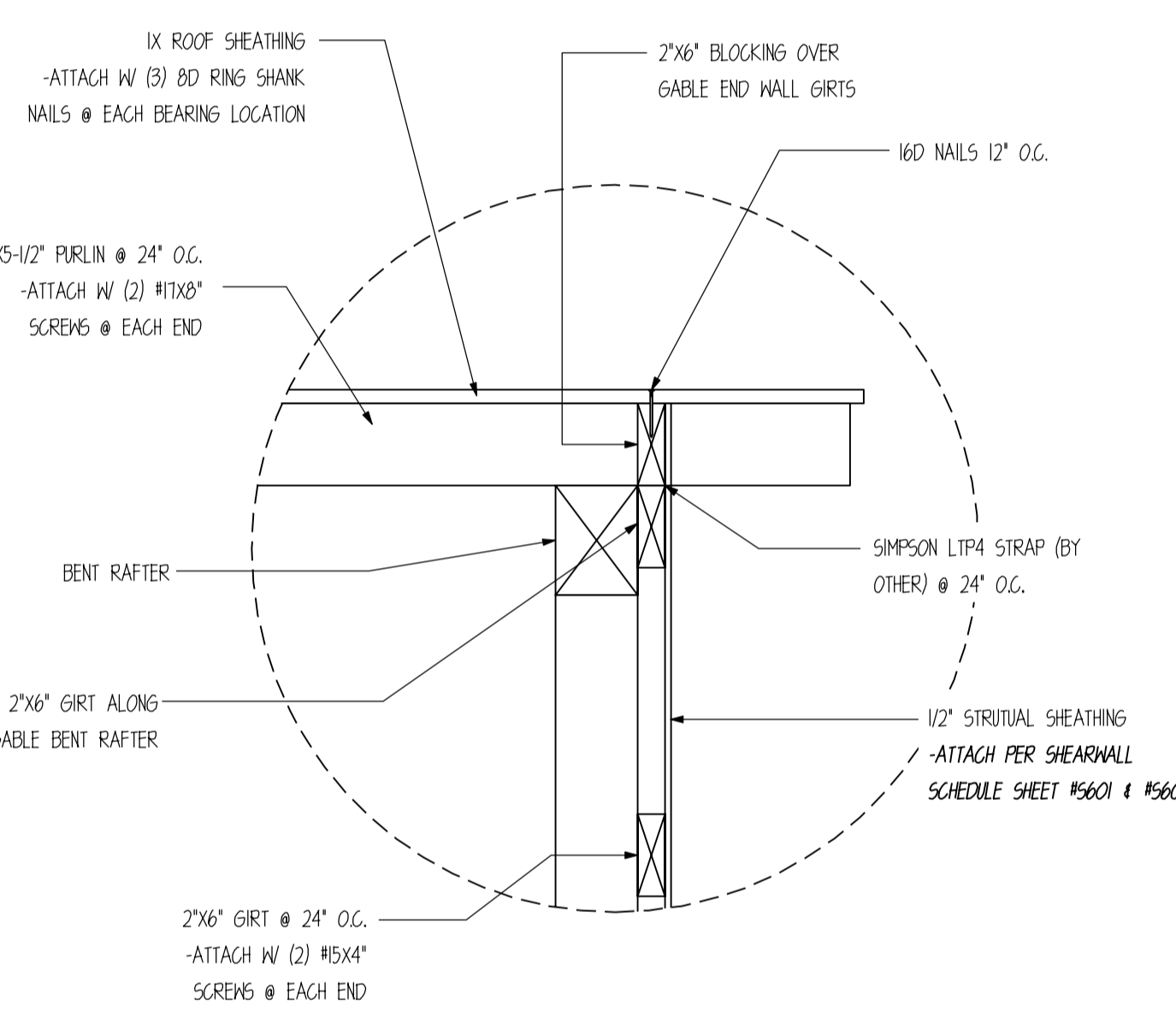
D DOUBLE RIDGE BEAM ATTACHMENT
SCALE: 1" = 1"



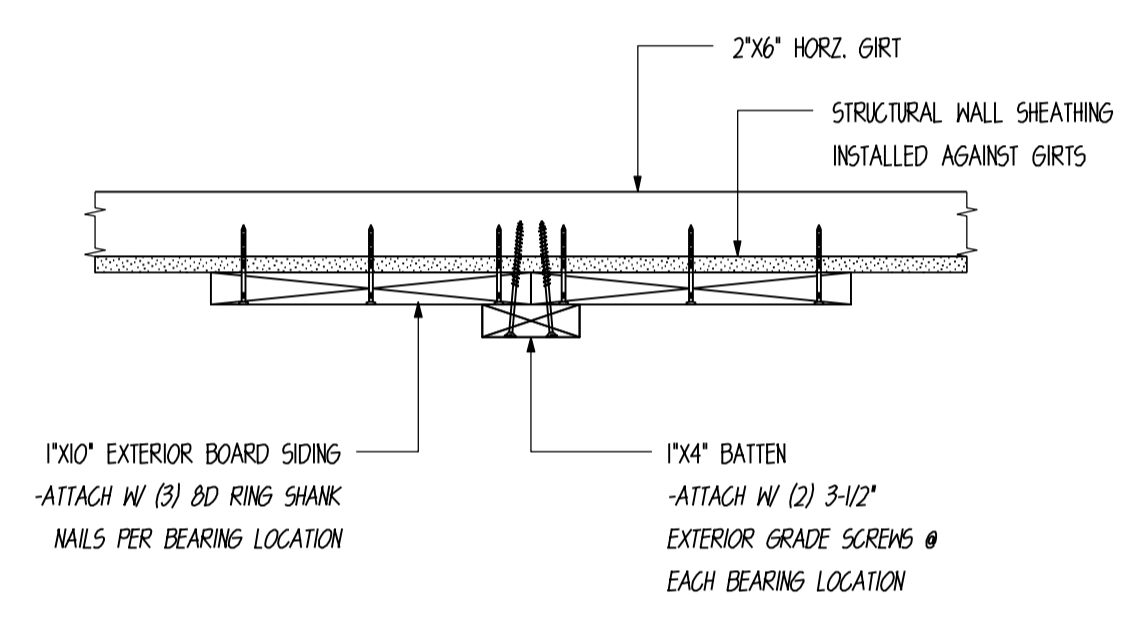
**E LOFT TO WALL ATTACHMENT
DETAILS @ GABLE END**
SCALE: 1" = 1"



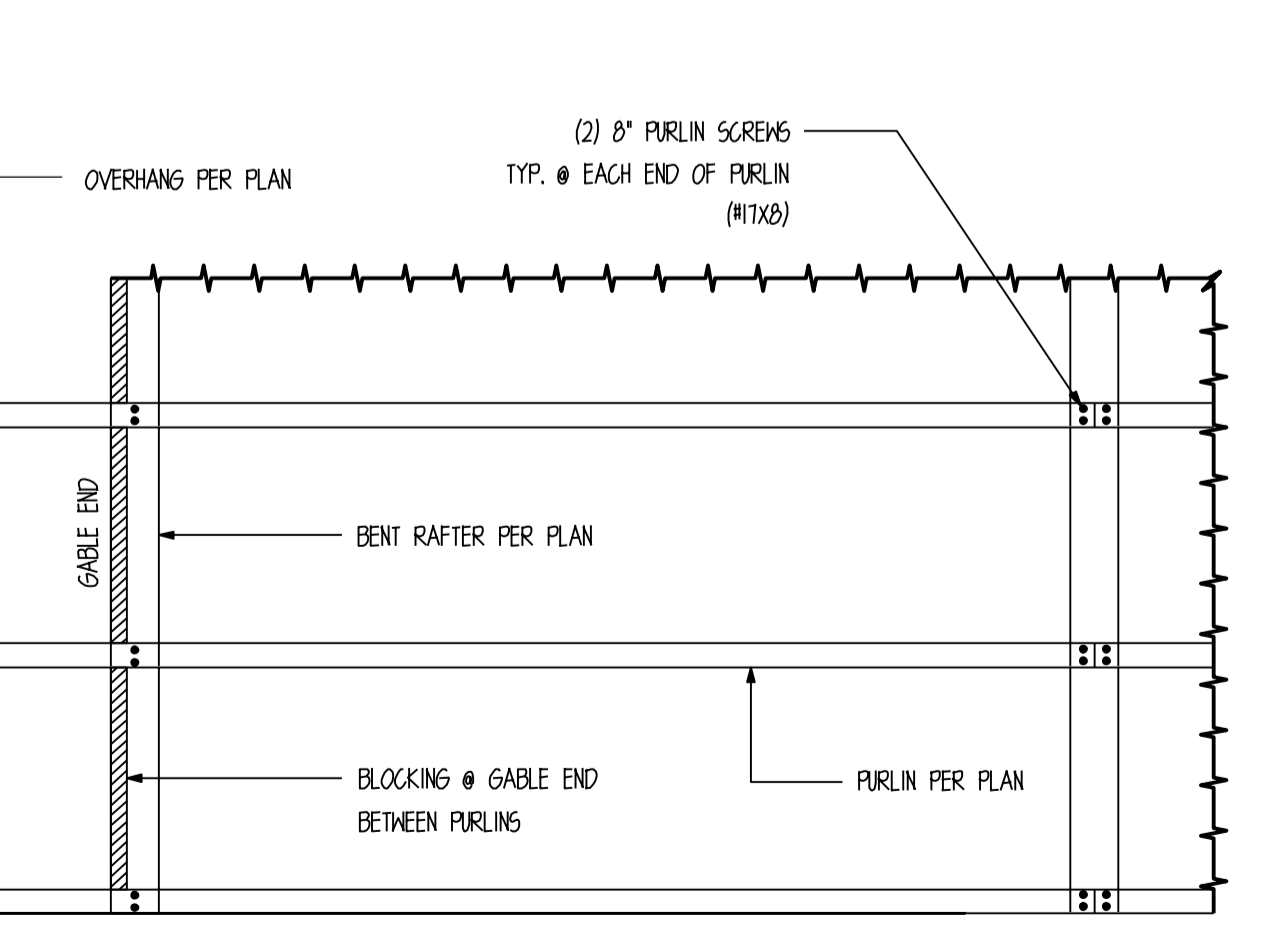
**F WALL AND ROOF ATTACHMENT
DETAILS @ MAIN BARN EAVES**
SCALE: 1" = 1"



**G WALL AND ROOF ATTACHMENT
DETAILS @ GABLES**
SCALE: 1" = 1"

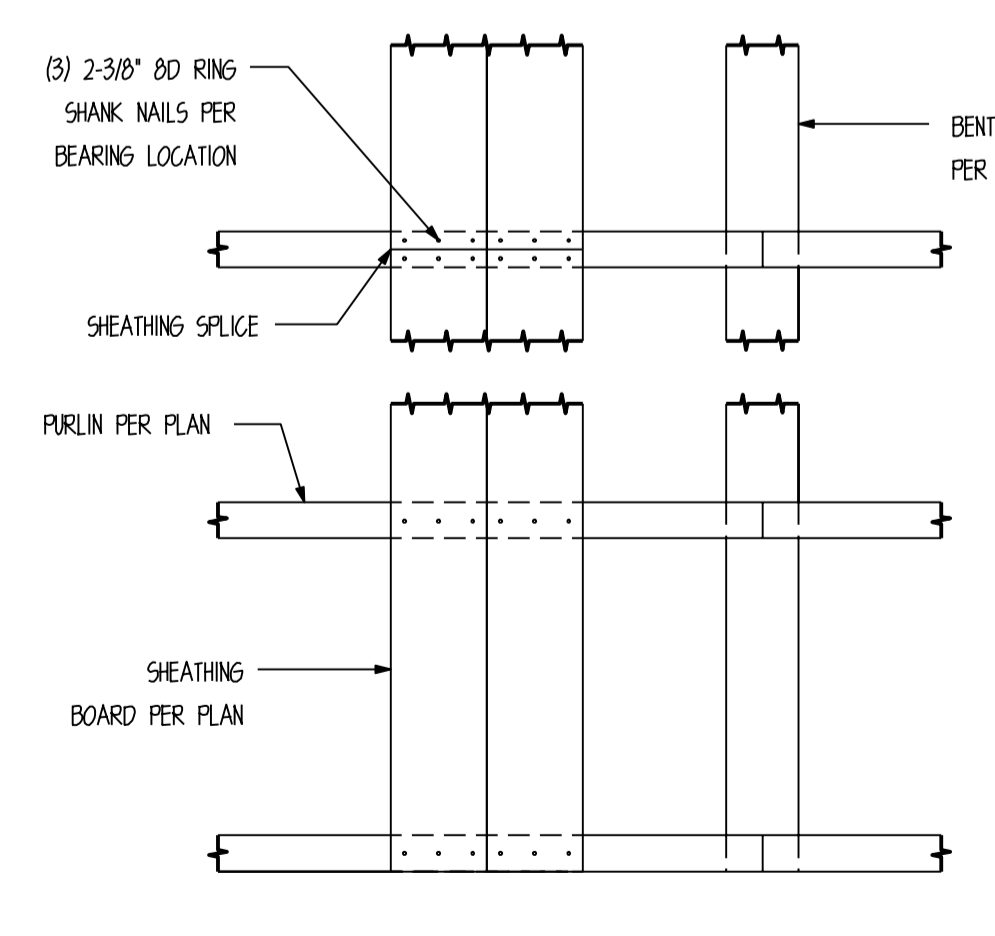


**SIDING & BATTEN
ATTACH. DETAIL**



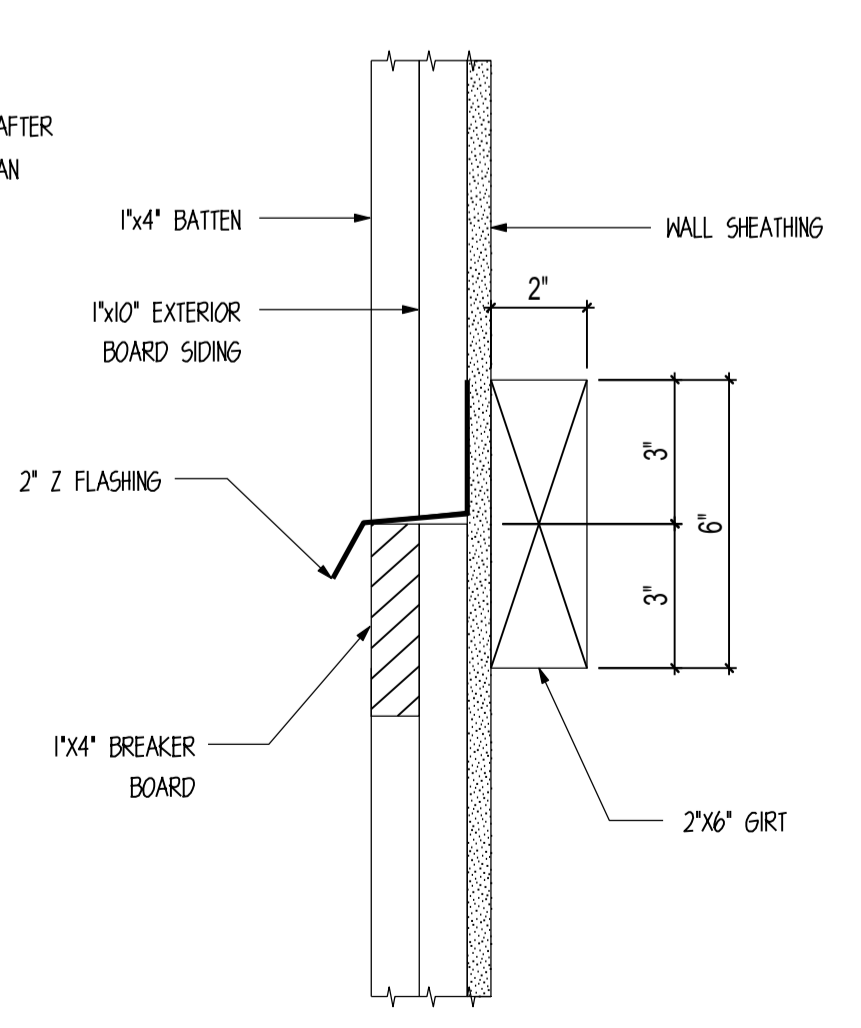
ROOF PURLIN ATTACHMENT DETAILS

NOTE: SEE PLAN FOR PURLIN
SIZE AND SPACING

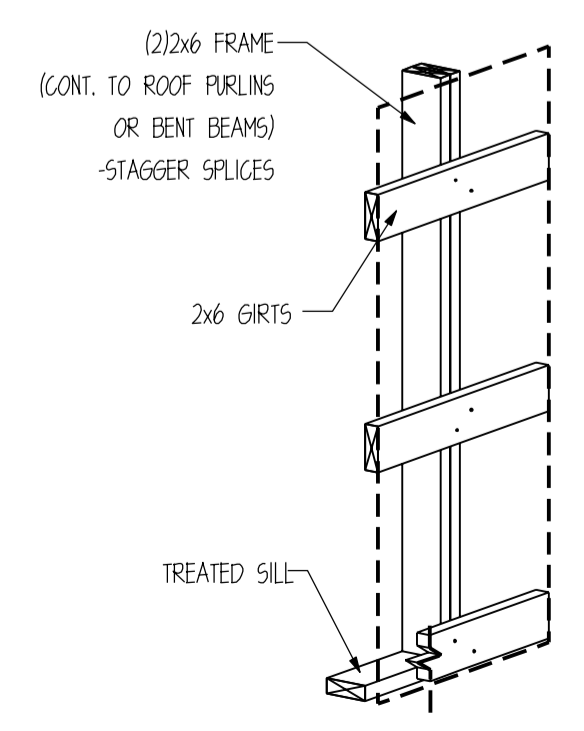


**ROOF SHEATHING
ATTACHMENT DETAILS**

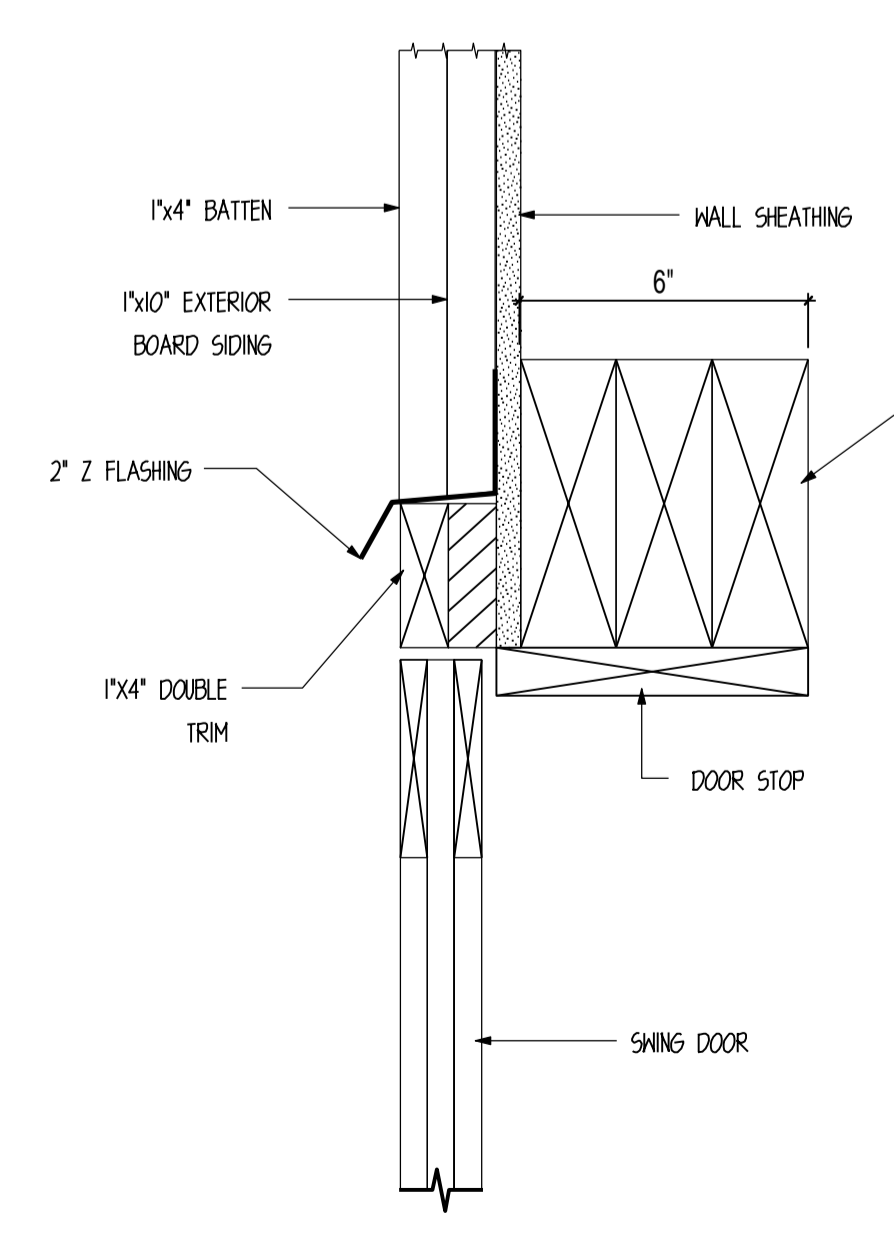
NOTE: FASTENERS NOT SUPPLIED IN
SAND CREEK POST & BEAM BARN KIT



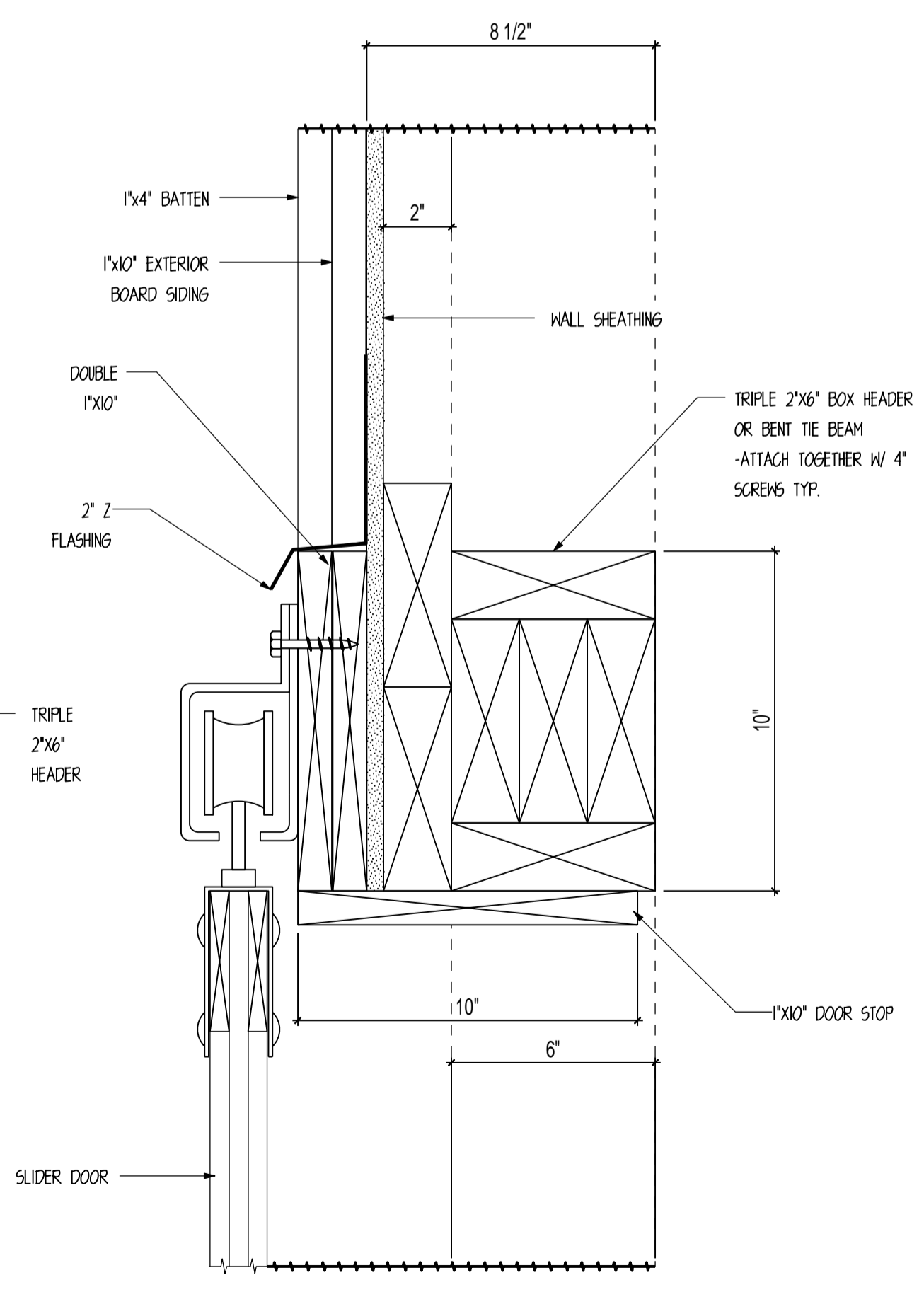
**BREAKER BOARD/
SIDING SPLICE DETAIL**



TYPICAL WALL BRACE DETAIL
SCALE: 1/2" = 1'-0"
*** INSTALL FOR GIRT SPANS GREATER THAN 6'-0"



**SWING DOOR
FLASHING DETAIL**



**SLIDER DOOR
FLASHING DETAIL**

CUSTOMER INFORMATION:

MIKE DEMKOWSKI

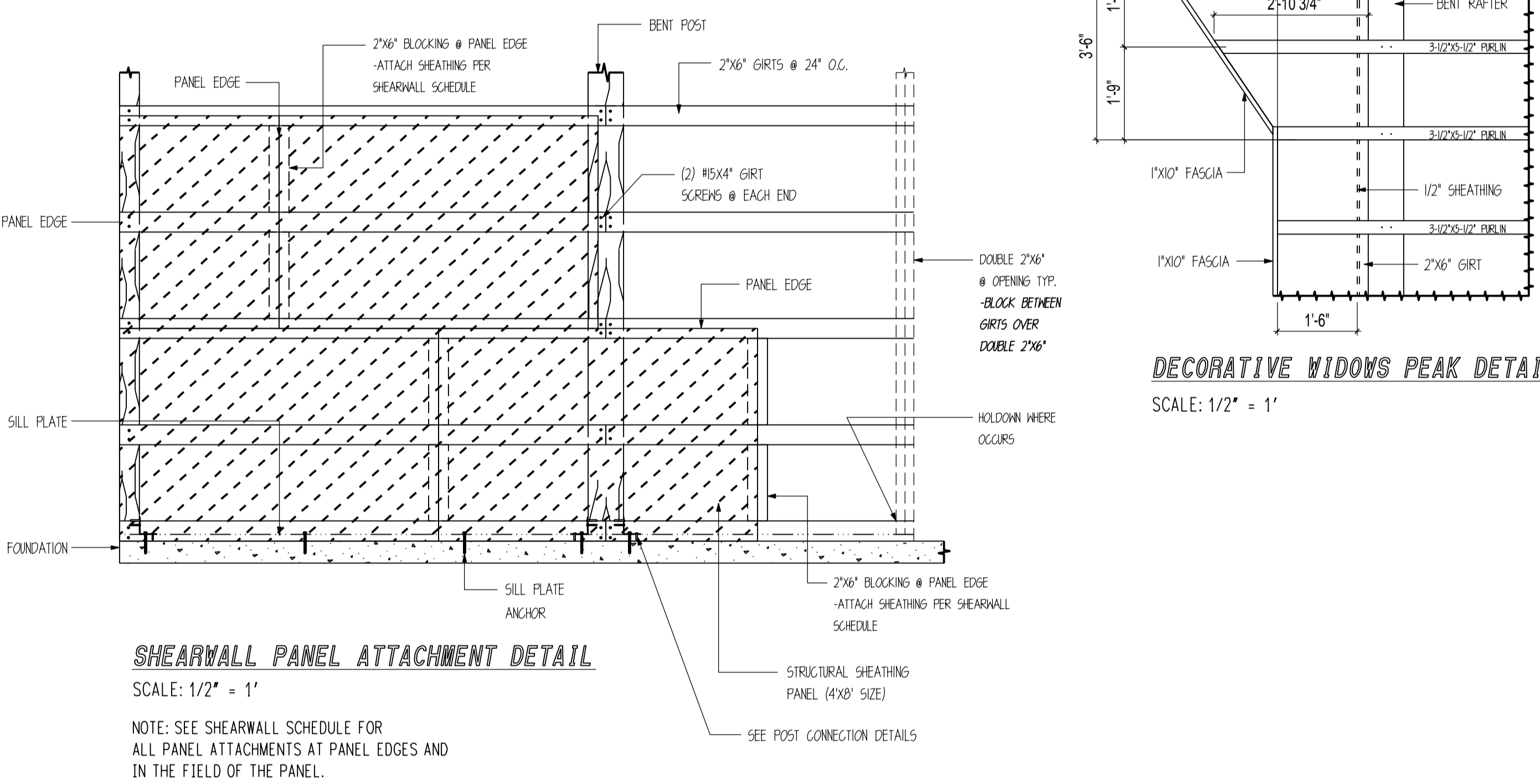
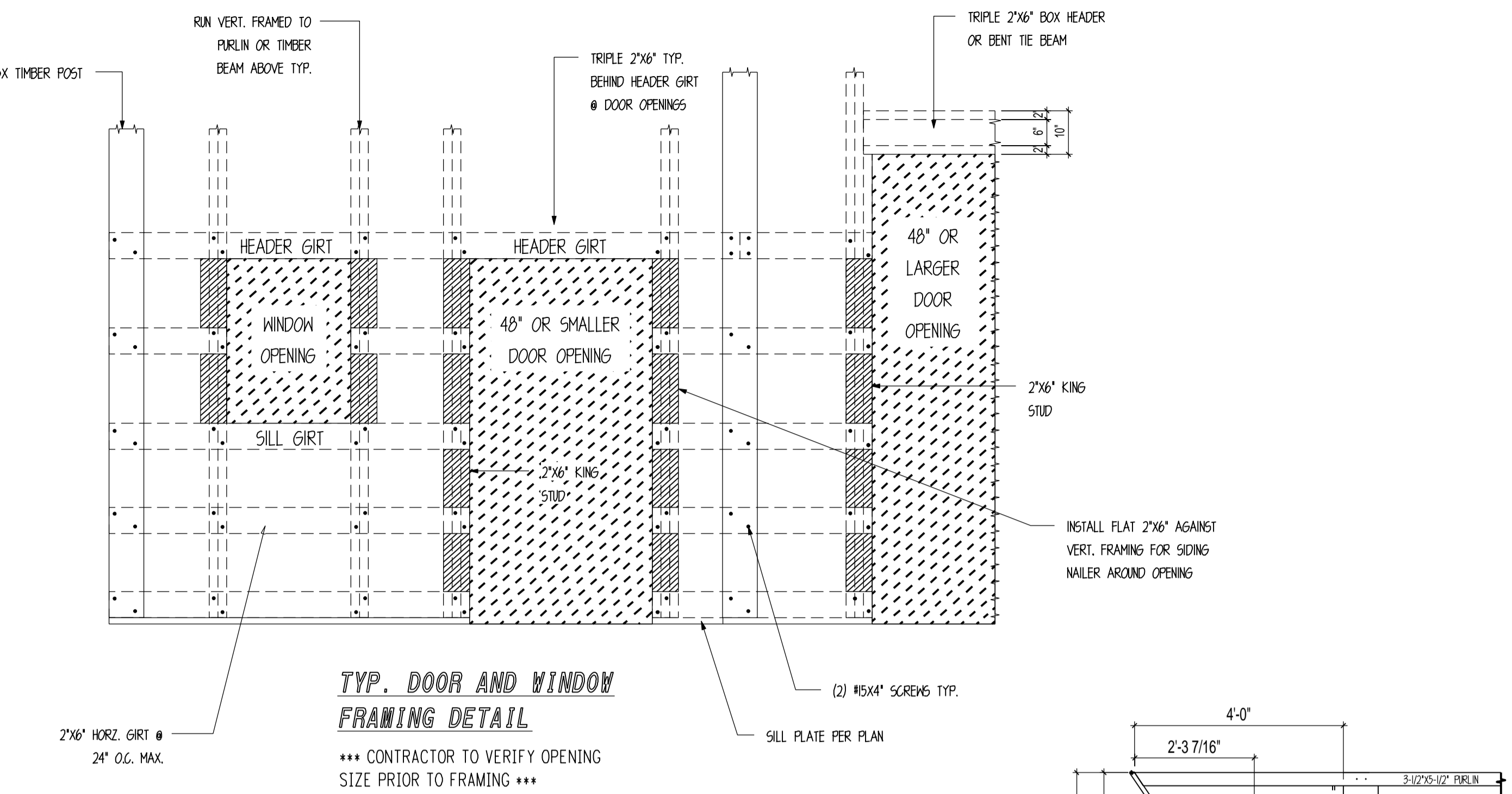
PROJECT INFORMATION:

DEMKOWSKI Barn
 4901 CROY RD.
 MORGAN HILL, CA 95037
 NUMBER: SCO123-1
 CATEGORY: RESIDENTIAL
 STYLE: WESTERN
 OTHER: --
 OTHER: --
 PM: WT/CM

DRAWING INFORMATION:

DRAWN BY: AA
 DATE: 9/8/2023
 STATUS: FINAL PLAN SET
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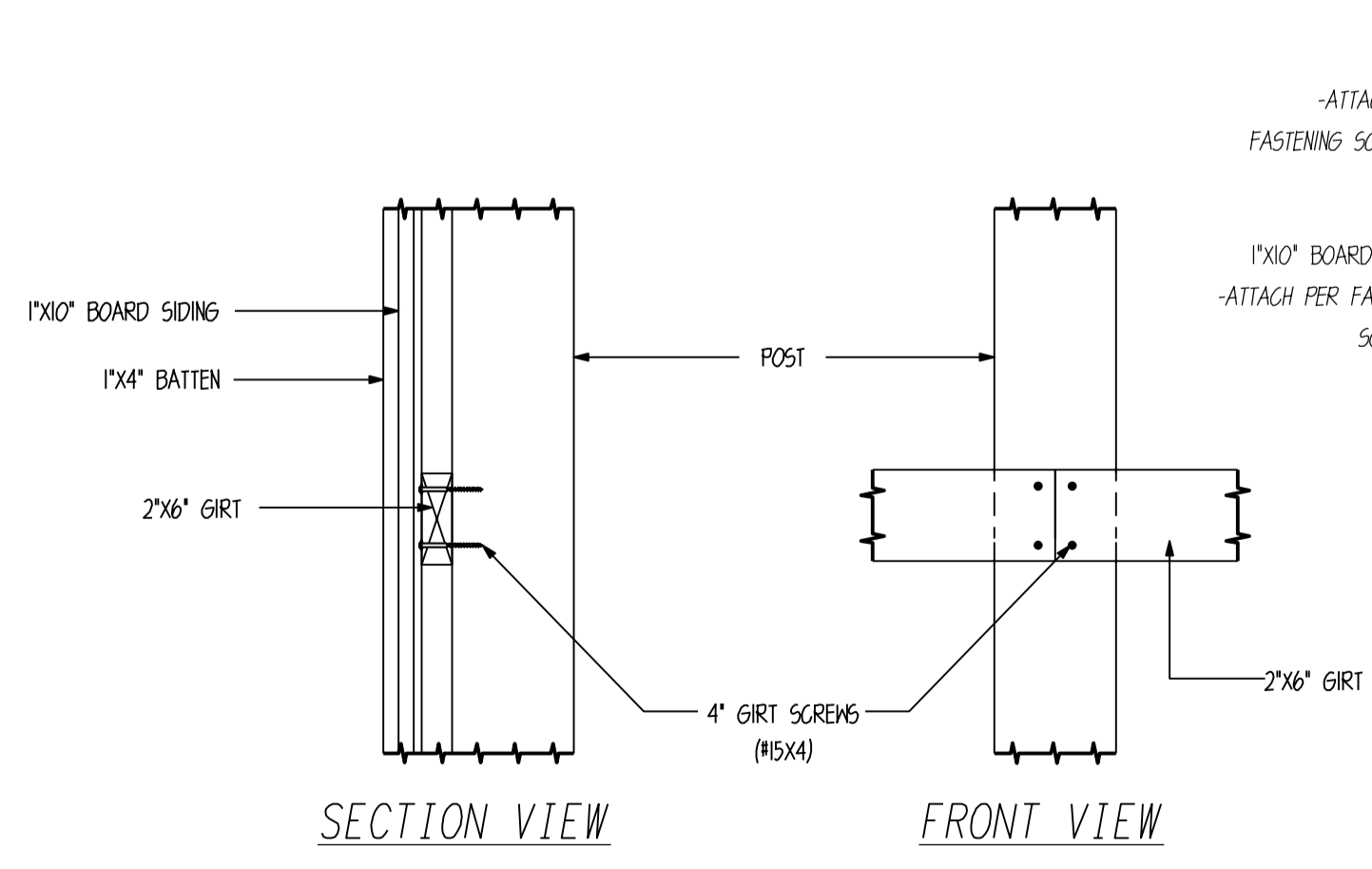
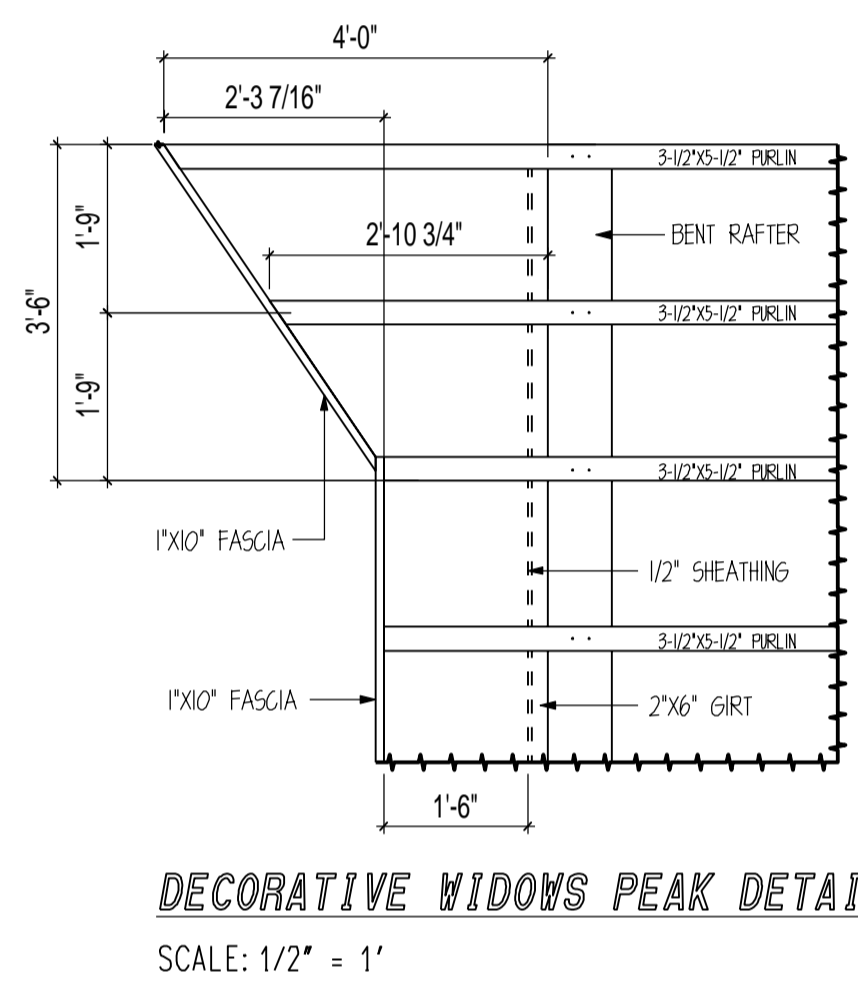
SHEET NOTES



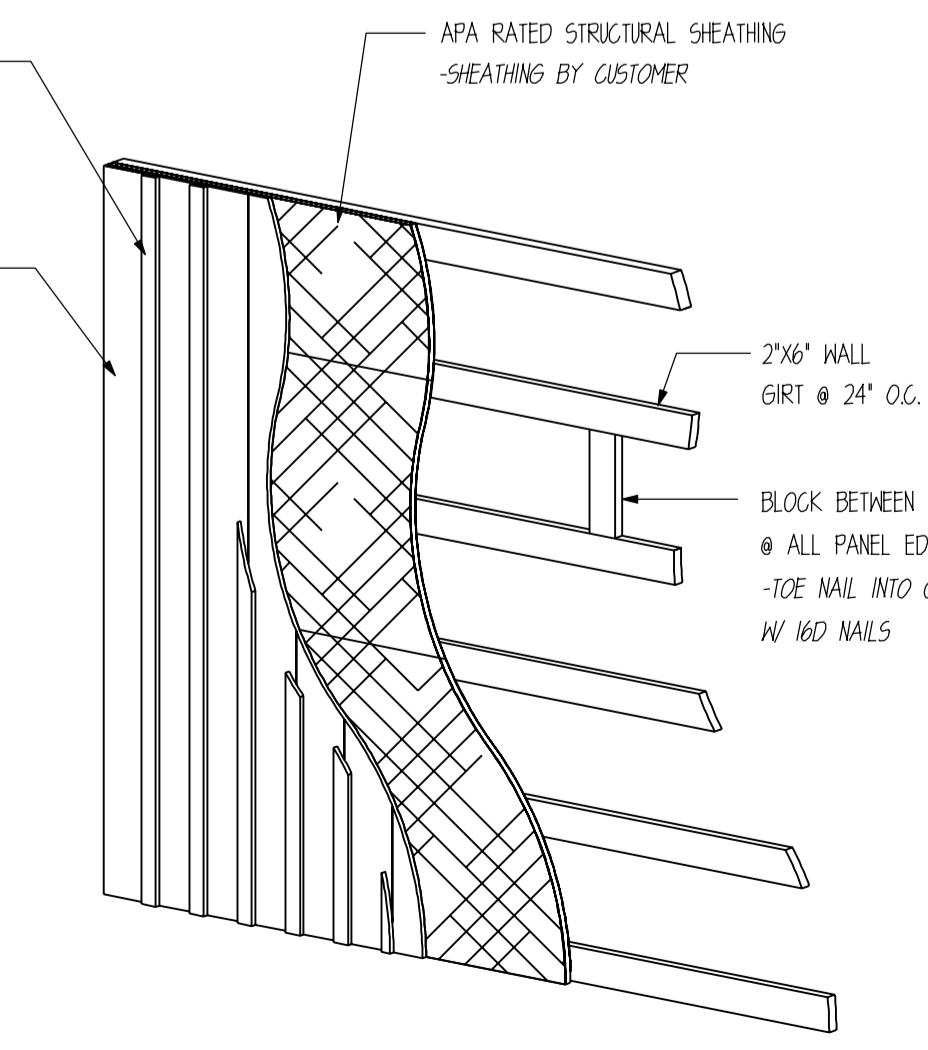
FASTENING SCHEDULE (TYP.)

CONNECTION	FASTENING	LOCATION
PURLIN TO BENTS	(2)-#10S SCREWS (PURLIN SCREWS)	@ EA. END.
GIRTS TO BENTS & FRAMING	(2)-#10S SCREWS (GIRT SCREWS)	@ EA. END.
LOFT JOIST TO TIE BEAM	(2)-#6D	TOENAIL
1x8 ROOF & FLOOR DECKING	(3)-#D RING SHANK	@ EA. BEARING LOCATION
1x10 & 1x12 SIDING	(3)-#D GALV. RING SHANK	@ EA. BEARING LOCATION
1x2 & 1x4 BATTEN	(2)-EXTERIOR GRADE SCREWS @ 24" O.C.	@ EA. BEARING LOCATION
2x6 (NOM) T&G DECKING TO JOISTS	(2)-#6D	BLIND & FACE NAIL
BUILT-UP HEADERS	#6D @ 16" O.C.	EACH EDGE
2x3 FURRING STRIP	(2)-#6D	@ EA. BEARING LOCATION
1x8 (NOM) T&G	(3)-#D GALV. RING SHANK	@ EA. BEARING LOCATION
ROOF NAILBASE INS. PANEL	(15)-INSULATION PANEL SCREWS	EA. 4x8 PANEL (FIELD OF ROOF)
TO PURLIN OR FURRING STRIPS	(20)-INSULATION PANEL SCREWS	EA. 4x8 PANEL (PERIMETER OF ROOF)

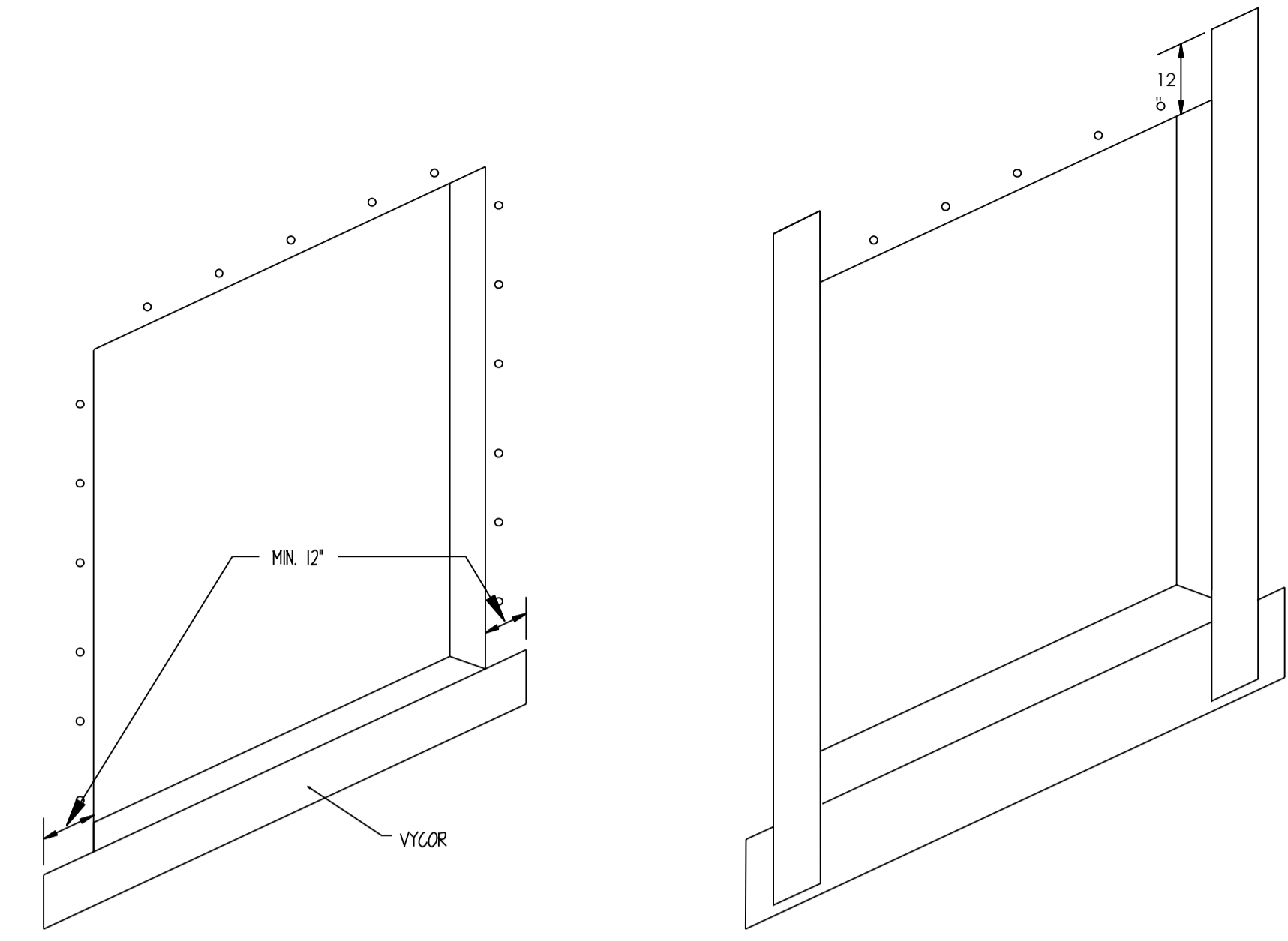
GENERAL NOTES:
 - FOR NAILING NOT SHOWN ON THESE DRAWINGS REFER TO IBC NAILING SCHEDULES
 - ALL NAILS TO BE PROVIDED BY CUSTOMER OR GENERAL CONTRACTOR
 - NOT ALL MATERIALS IN SCHEDULE MAY BE USED ON THIS PLAN
 - ALL NAILS COMMON UNLESS NOTED
 - ALL NAILS PROVIDED BY TIMBERLYNE
 - GIRT & PURLIN SCREWS PROVIDED BY TIMBERLYNE
 - ALL GIRT AND PURLIN SCREWS ARE TRIPLE CERAMIC COATED (EXTERIOR GRADE USE)



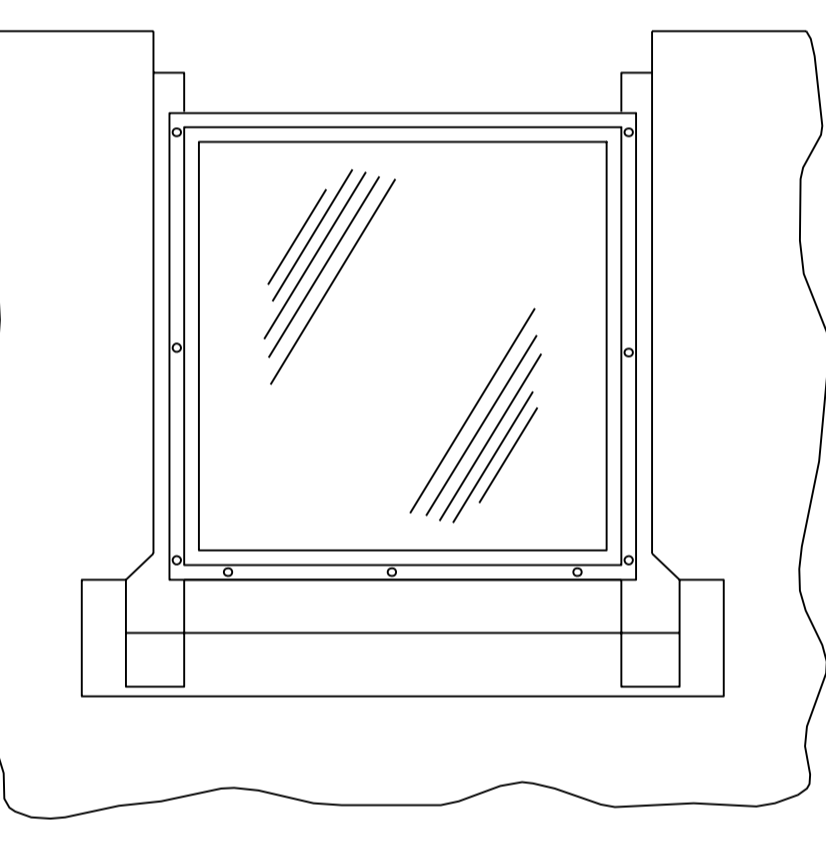
WALL GIRTS ATTACHMENT DETAILS
 NOTE: DETAIL FOR STANDARD PRODUCT AND SPACING ONLY. SEE PLAN FOR SIZE AND SPACE OF MATERIALS.



WALL FRAMING ISO DETAIL W/ SHEATHING AGAINST GIRTS

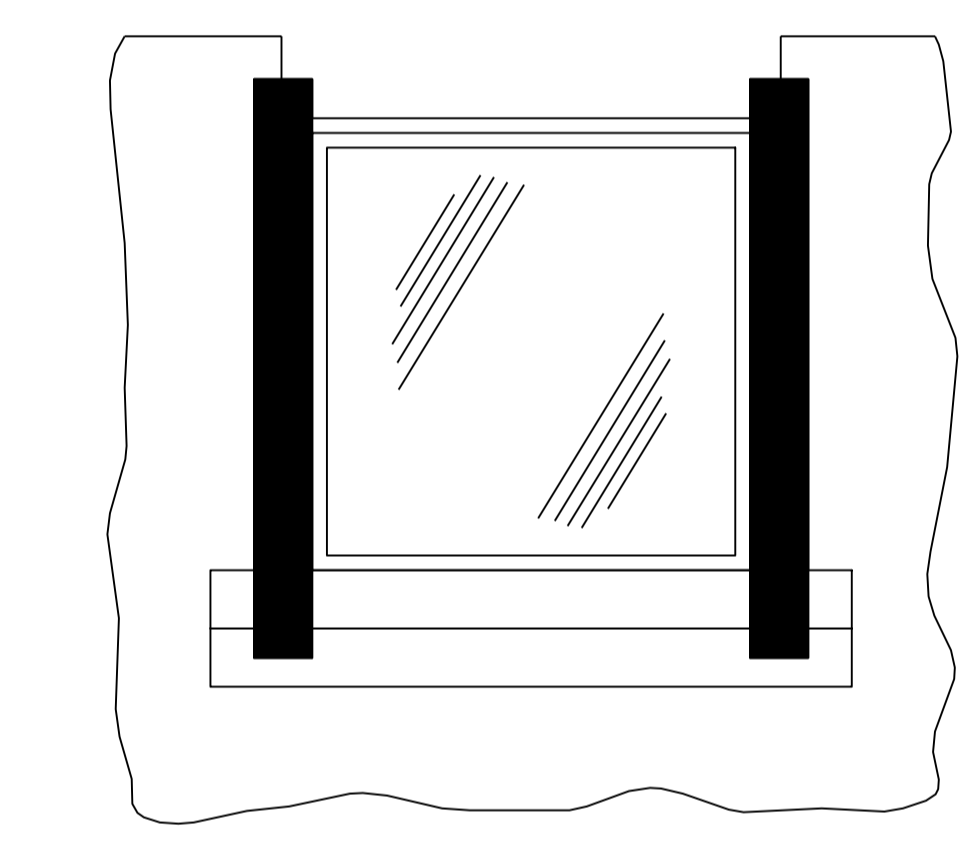


STEP 1
 INSTALL 12" WIDE MOISTSTOP PER DIAGRAM, LEAVING RELEASE PAPER ON BACKSIDE, PLACE PAPER SIDE AGAINST SHEATHING AND ATTACH BY STAPLING OR NAILING ALONG TOP EDGE.

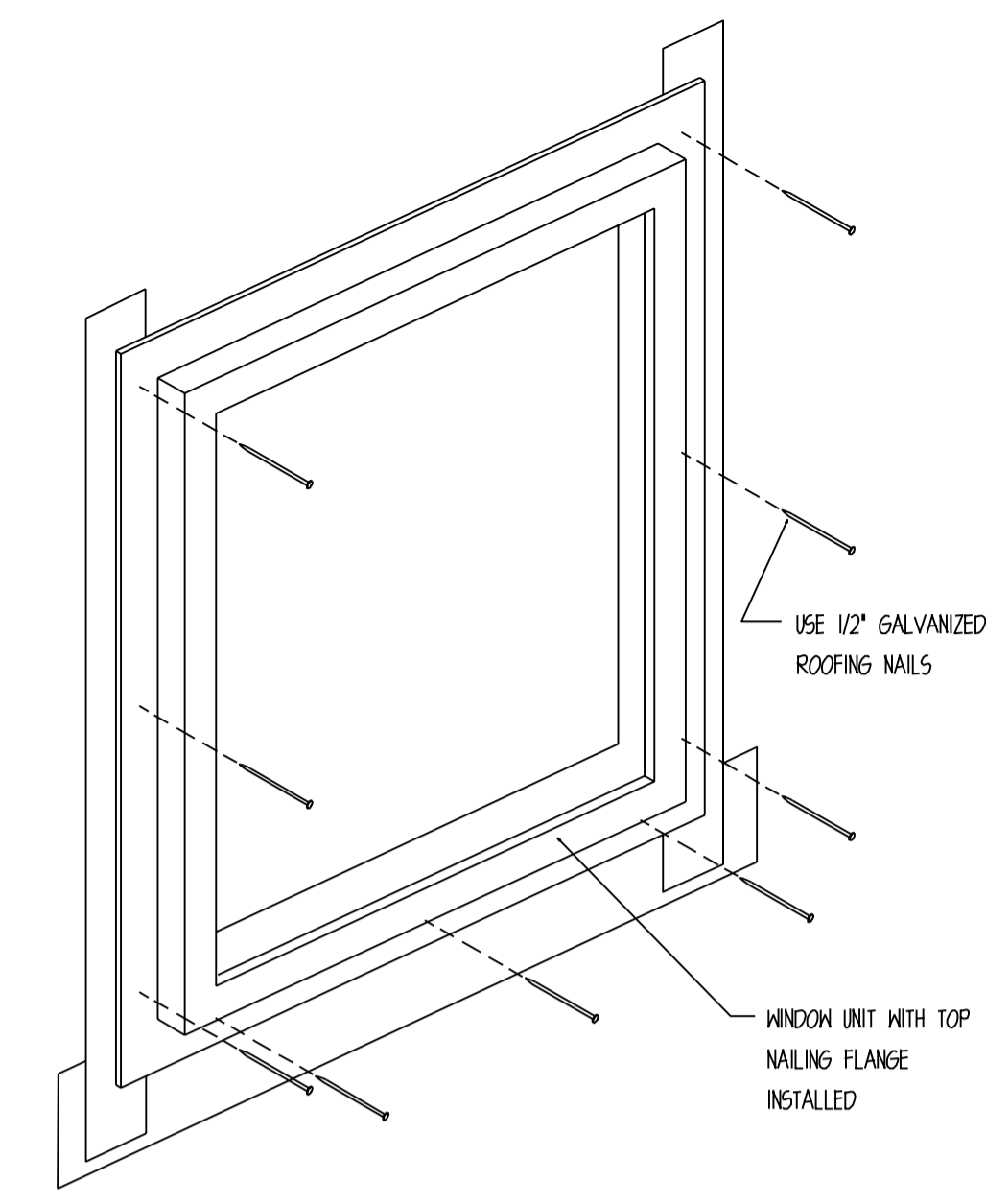


STEP 4
 PLACE 60 MIL BUILDING PAPER AROUND WINDOWS AS SHOWN CONTINUOUS AROUND STRUCTURE - REMOVE BACKING FROM MOISTSTOP SILL PIECE AND ADHERE TO BUILDING WRAP

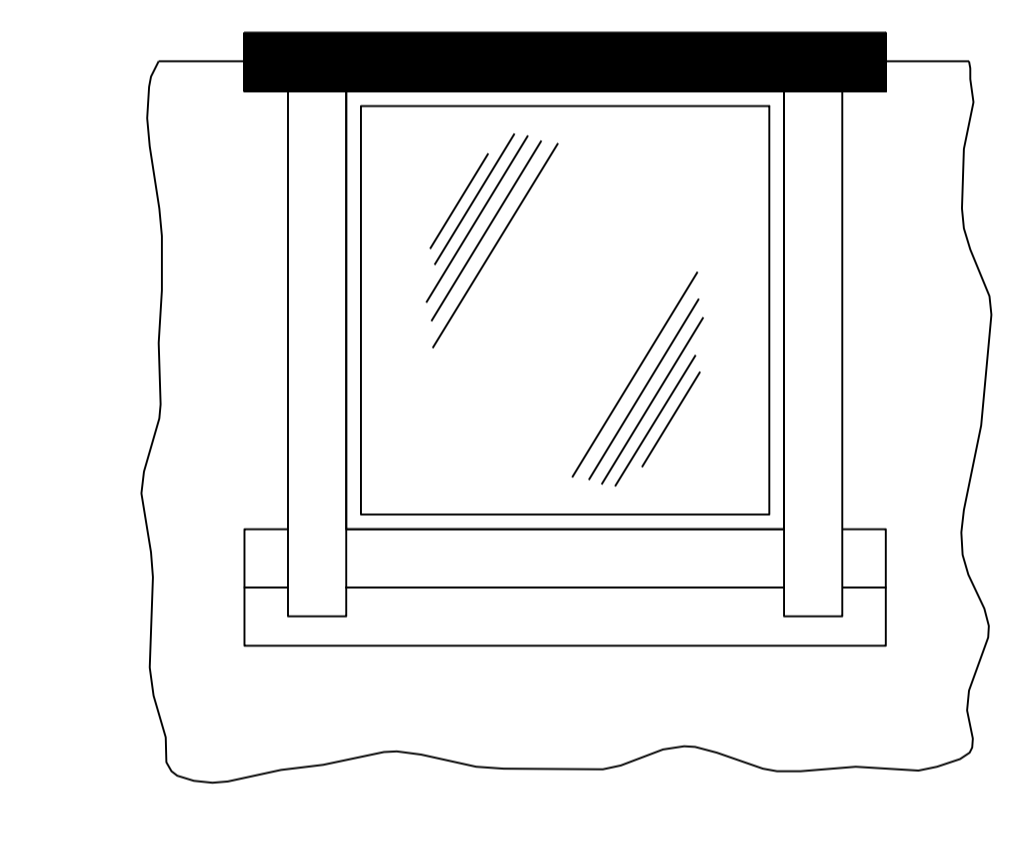
STEP 2
 INSTALL 20 MIL VYCOR PER DIAGRAM ADHERING TO THE WINDOW SILL NAILING FLANGE.



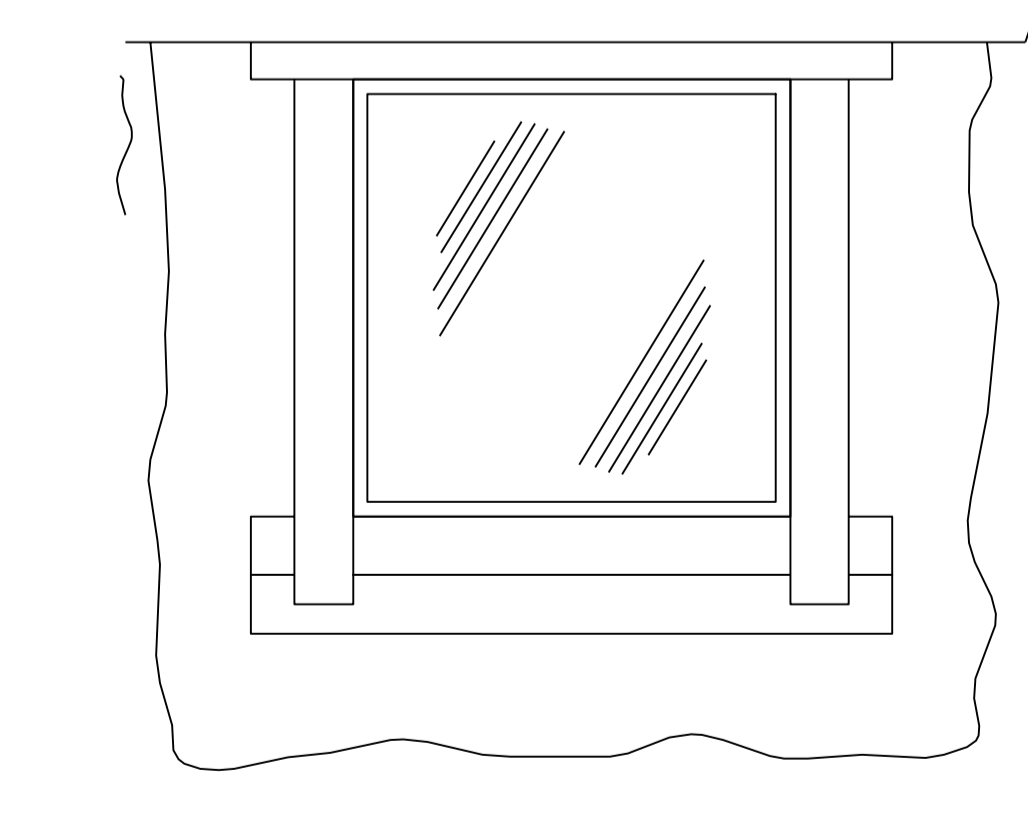
STEP 5
 INSTALL 20 MIL VYCOR PER DIAGRAM ADHERING TO THE WINDOW SILL NAILING FLANGE.



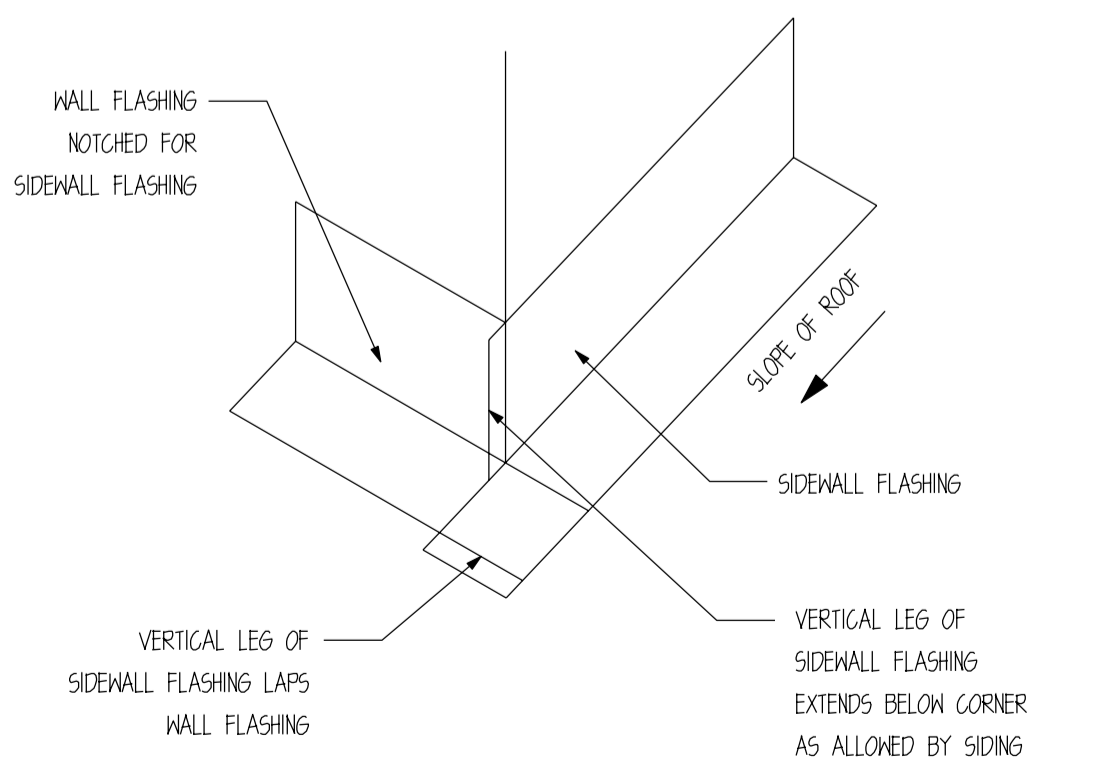
STEP 3
 INSTALL 12" MOISTSTOP JAMB PIECES PER DIAGRAM, ADHERING TO SHEATHING AND FRAMING.
 FOR ADDITIONAL ATTACHMENT, STAPLE PERIMETER EDGES ABOVE SILL AREA.
 UPON COMPLETION OF STEPS (1 THRU 4) USING A J-ROLLER, APPLY PRESSURE AND ROLL ENTIRE SURFACE OF MOISTSTOP TO REMOVE WRINKLES & AIR POCKETS.



STEP 6
 INSTALL 20 MIL VYCOR PER DIAGRAM, ADHERING TO THE WINDOW HEAD FLANGE AND SHEATHING.
 UPON COMPLETION OF STEPS, USING A J-ROLLER, APPLY PRESSURE AND ROLL ENTIRE SURFACE OF VYCOR TO REMOVE WRINKLES AND AIR POCKETS.



STEP 7
 INSTALL 60 MIL BUILDING PAPER AS SHOWN CONTINUOUS AROUND STRUCTURE



KICK-OUT FLASHING
 SCALE: N.T.S.

CUSTOMER INFORMATION:

MIKE DEMKOWSKI

PROJECT INFORMATION:

DEMKOWSKI Barn
4901 CROY RD.
MORGAN HILL, CA 95037
NUMBER: SCO123-1
CATEGORY: RESIDENTIAL
STYLE: WESTERN
OTHER: --
OTHER: --
PM: WT/CM

DRAWING INFORMATION:

DRAWN BY: AA
DATE: 9/8/2023
STATUS: FINAL PLAN SET
OTHER: --
OTHER: --

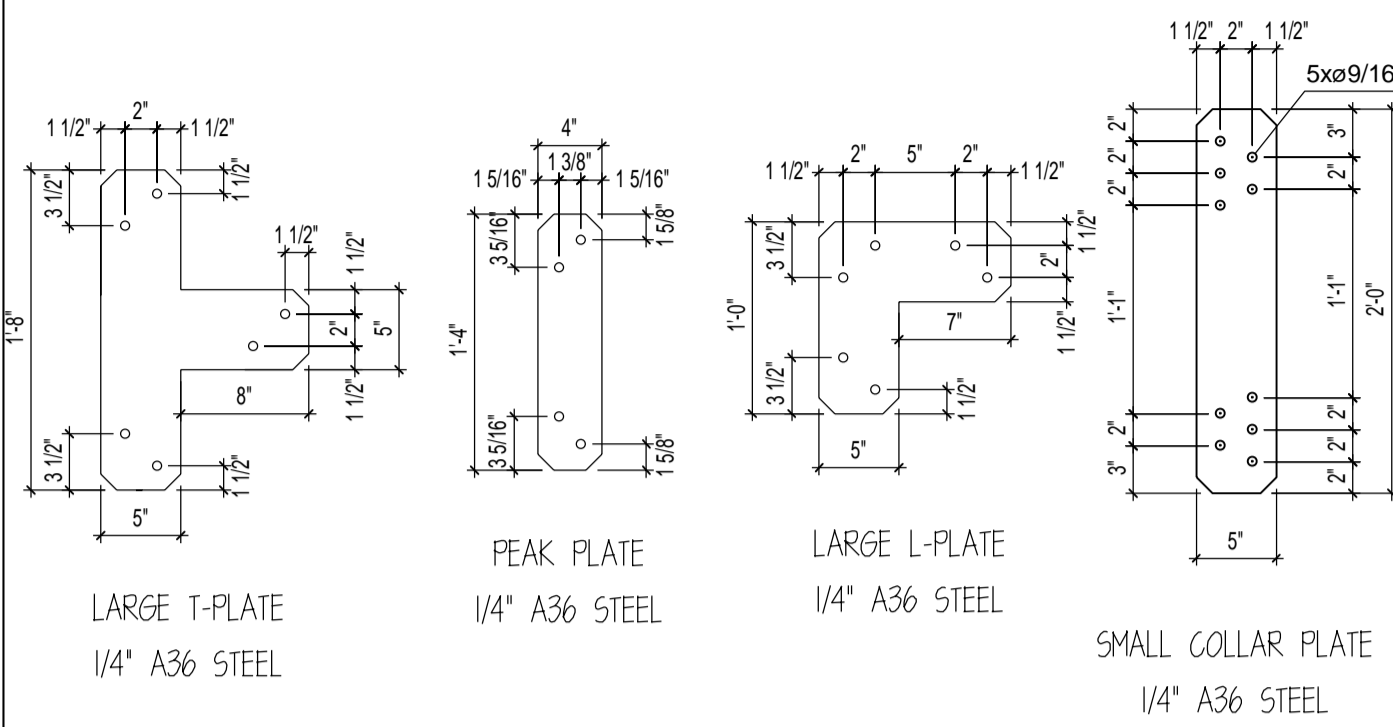
SHEET NOTES

1. BASE OF MAIN FRAME POST CUT TO FIT IN FIELD BY GENERAL CONTRACTOR ACCORDING TO SPECS ON CUT LISTS. CUT BOTTOM OF POST ONLY.

STANDARD STEEL JOINERY

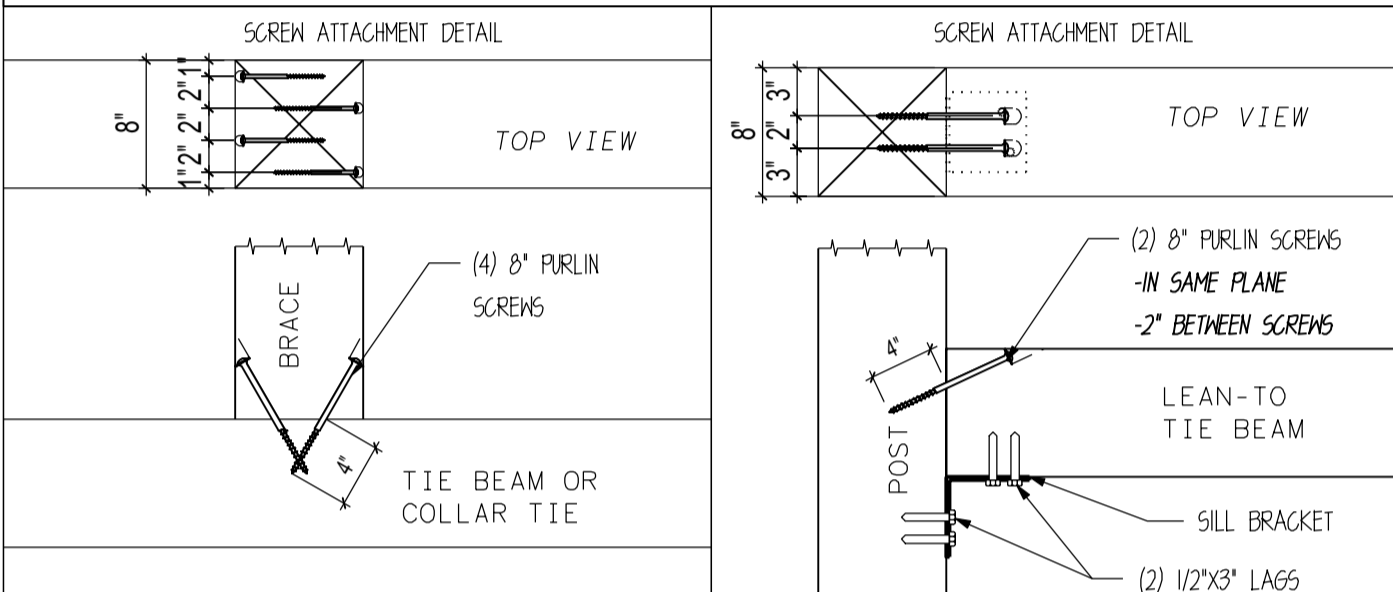
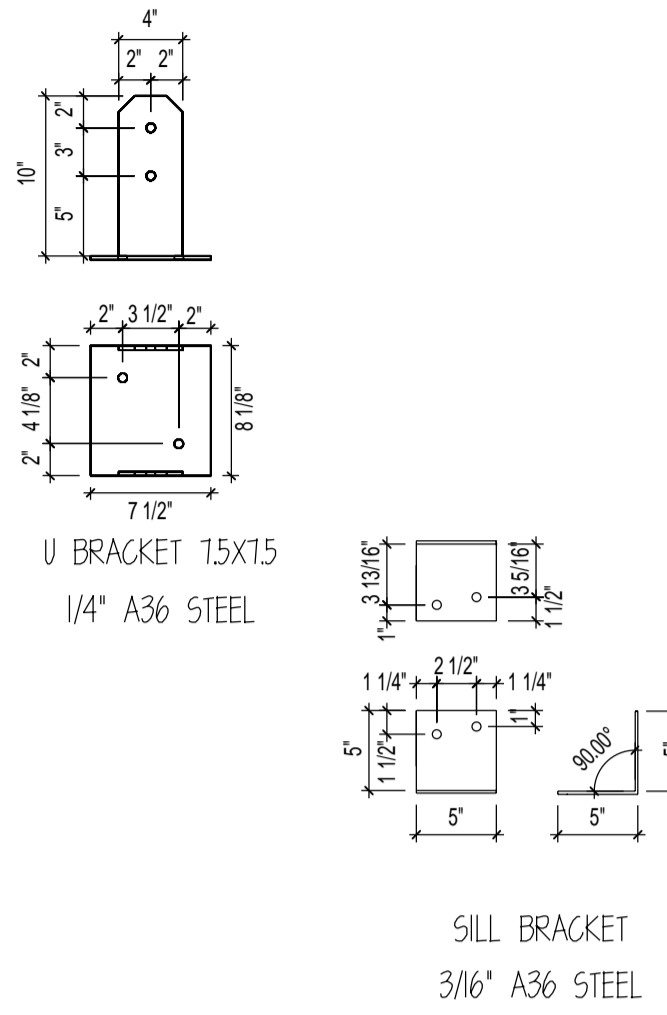
PLATES

- USE PROVIDED ZINC COATED 1/2"x4-1/2" THRU BOLTS (A307 MIN) W/ WAGHERS
- 2 PLATES ARE USED PLACE 1 PLATE ON EACH SIDE OF BENT UNLESS NOTED OTHERWISE ON PLANS



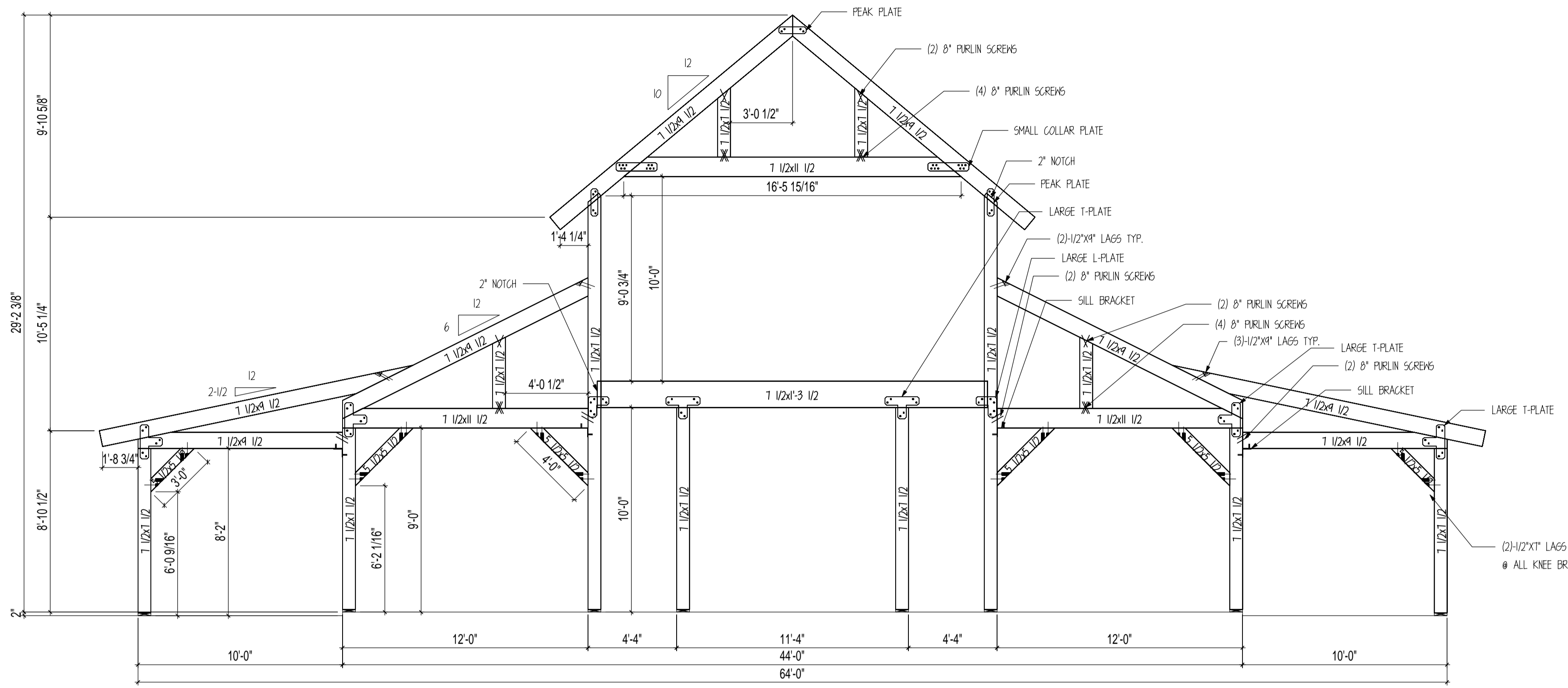
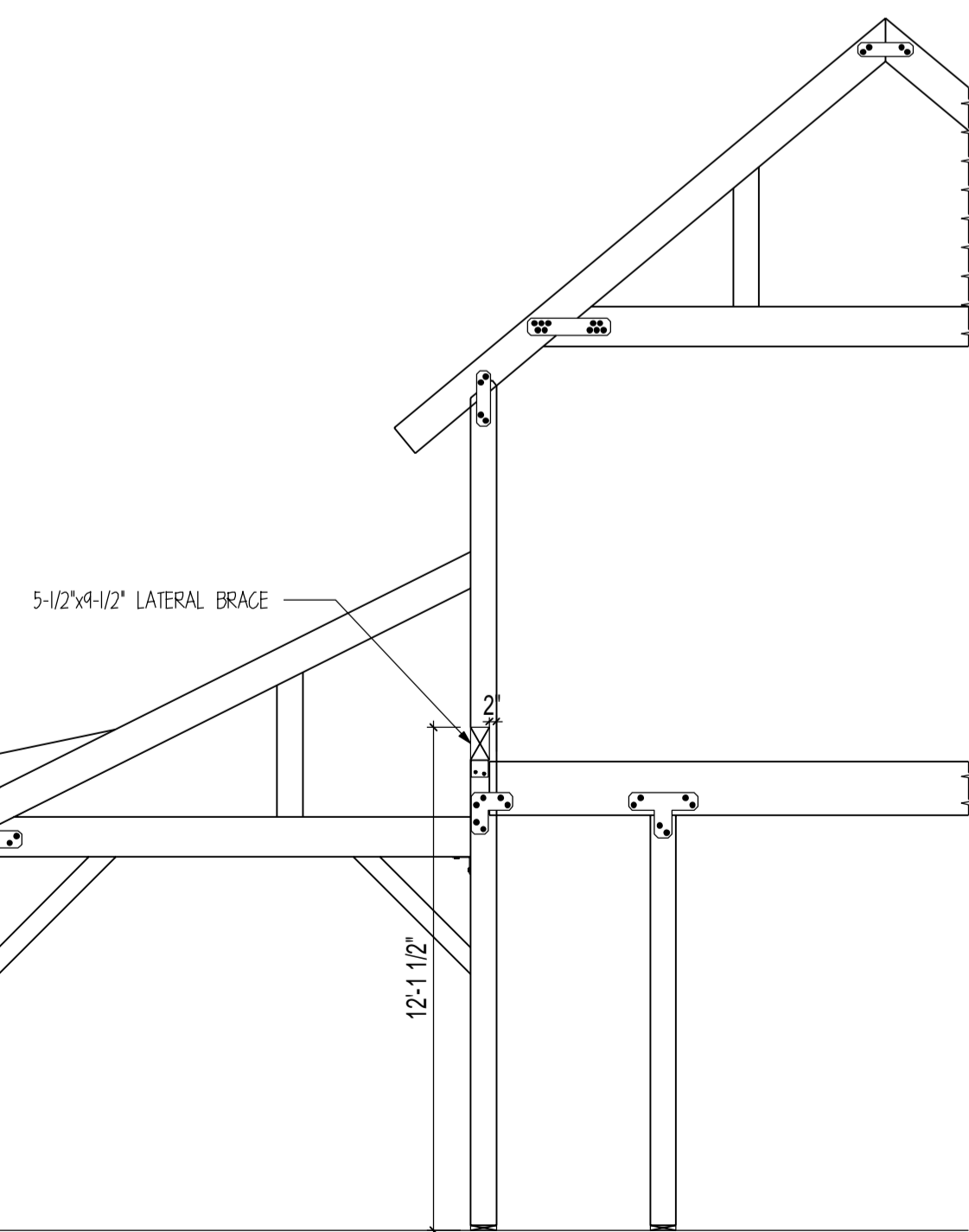
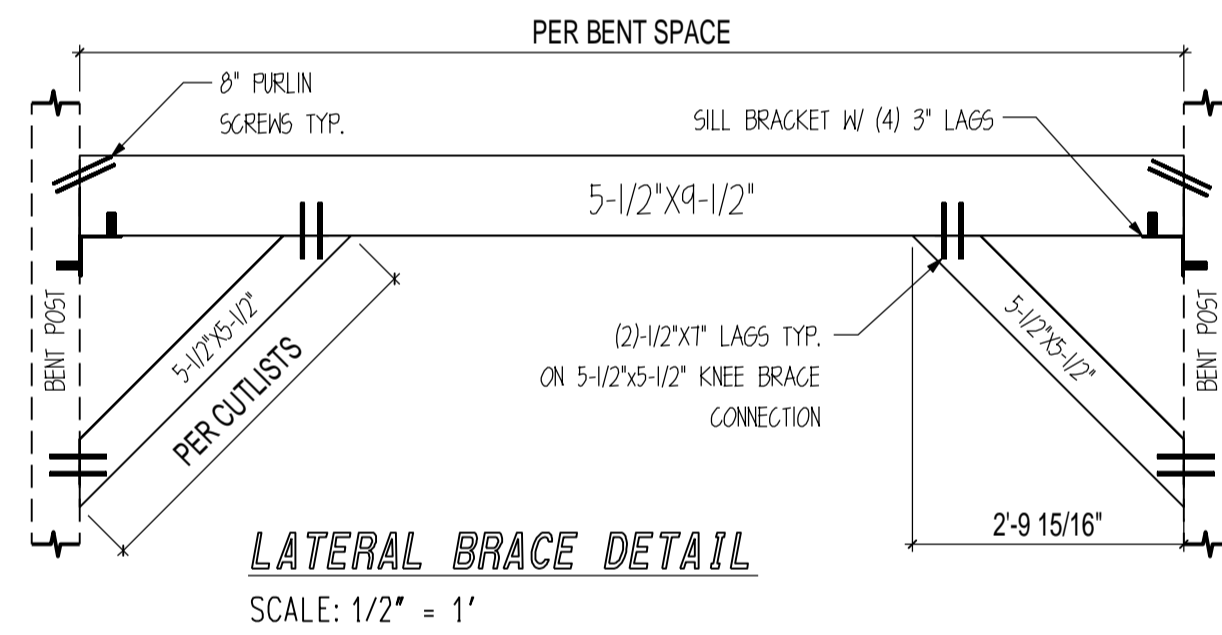
BRACKETS

- USE PROVIDED ZINC COATED 1/2" DIA. LAG BOLTS (GRADE 5 MIN)
- 1/2"x6" SIMPSON TITEN HD ZINC COATED ANCHORS @ FOUNDATION
- USE PROVIDED ZINC COATED 1/2"x4-1/2" THRU BOLTS (A307 MIN)

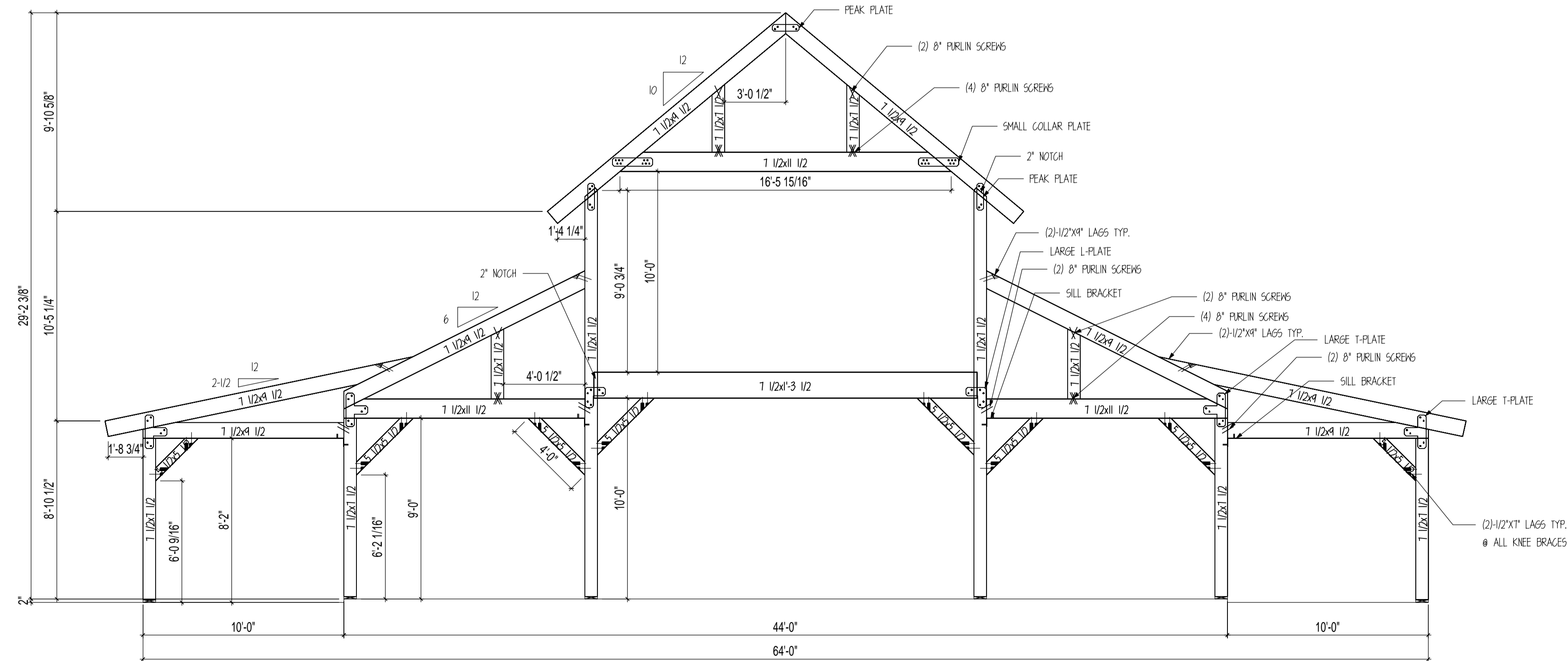


8" PURLIN SCREWS
(CONSTRUCTION LAG SCREW)
THREAD DIA: #17 OR .310
HEAD DIA: 1 1/16"
SHANK DIA: .226
RECESS SIZE: T40

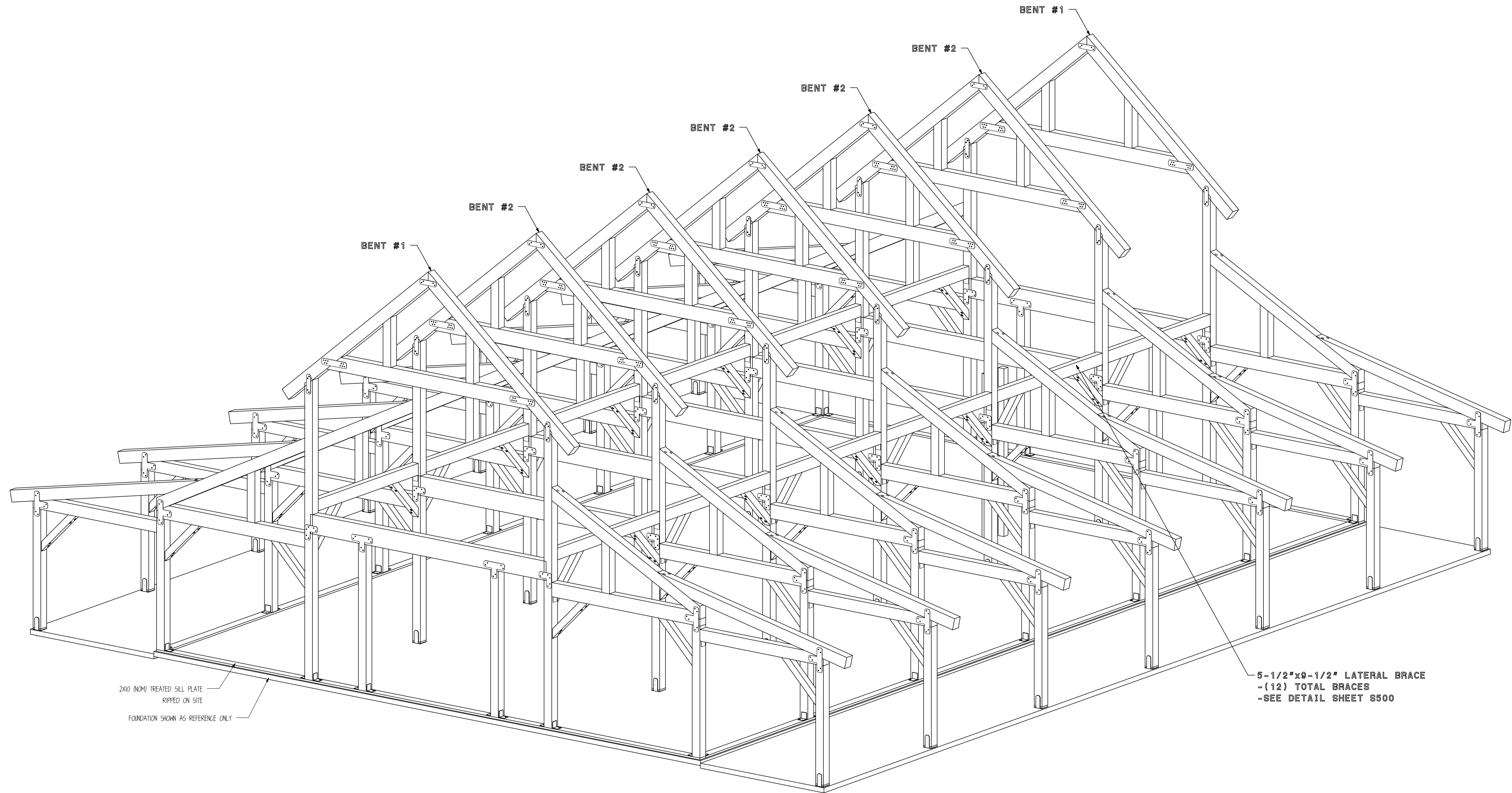
ALL 1/2" LAGS ARE ZINC COATED GRADE 5



BENT #1
SCALE: 1/4" = 1'



BENT #2
SCALE: 1/4" = 1'



CUSTOMER INFORMATION:

**MIKE
DEMKOWSKI**

PROJECT INFORMATION:

DEMKOWSKI

Barn

4901 CROY RD.
MORGAN HILL, CA 95037
NUMBER: SCO123-1

CATEGORY: RESIDENTIAL

STYLE: WESTERN

OTHER: --

OTHER: --

PM: WT/CM

DRAWING INFORMATION:

DRAWN BY: AA

DATE: 9/8/2023

STATUS: FINAL PLAN SET

OTHER: --

OTHER: --

SHEET NOTES

1. BASE OF MAIN FRAME POST CUT TO FIT IN
FIELD BY GENERAL CONTRACTOR ACCORDING
TO SPECS ON CUT LISTS. CUT BOTTOM OF
POST ONLY.

FRAME ISO
SCALE: N.T.S.

CUSTOMER INFORMATION:

**MIKE
 DEMKOWSKI**

PROJECT INFORMATION:

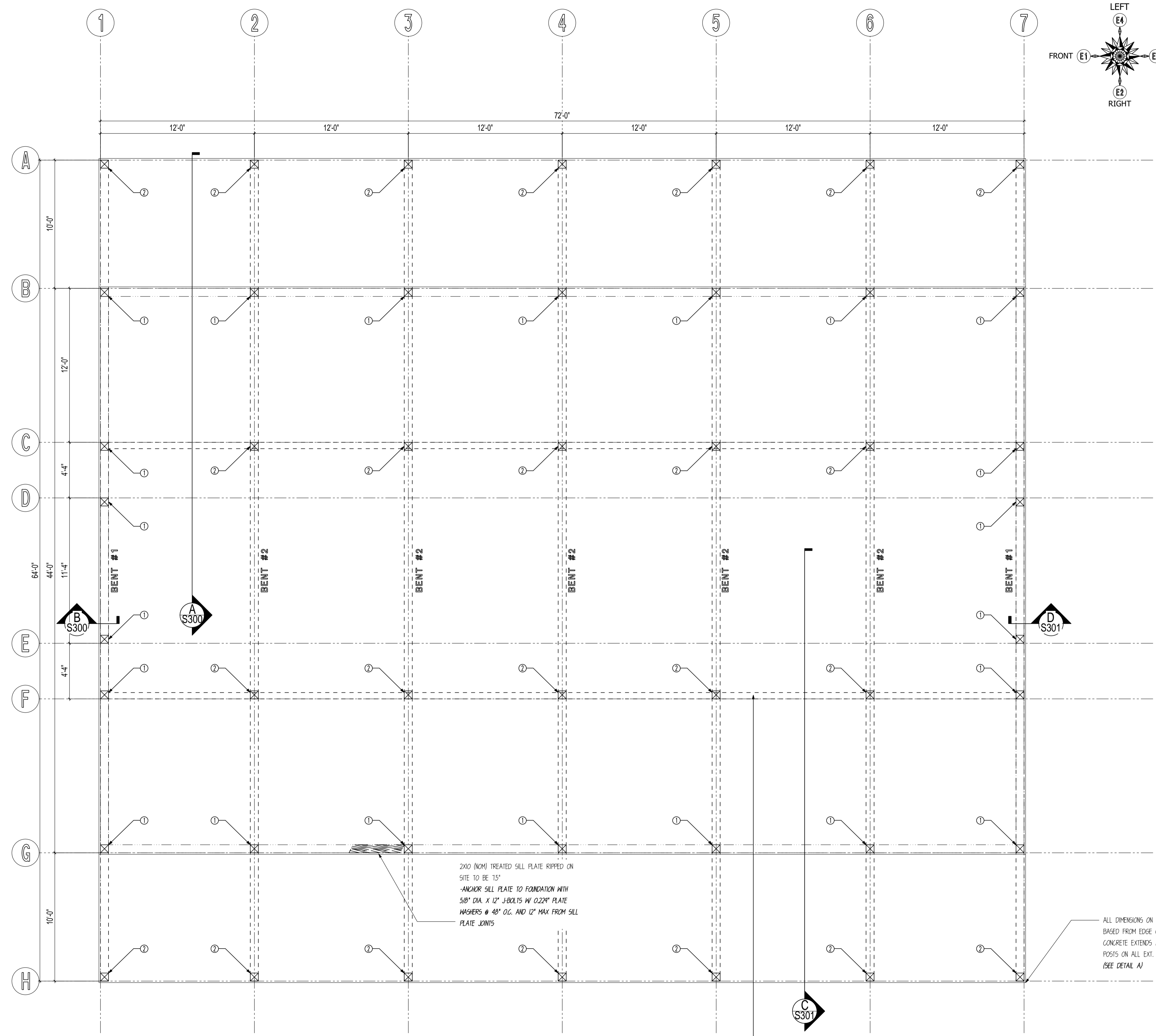
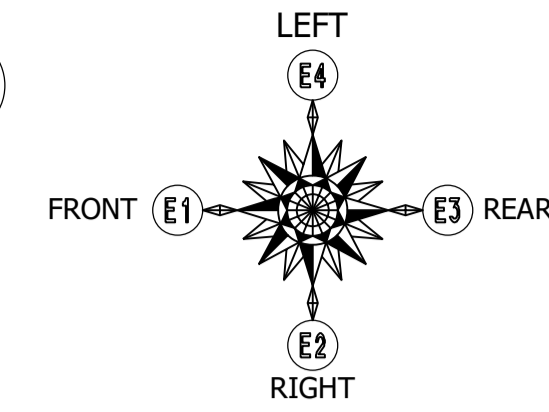
**DEMKOWSKI
 Barn**
 4901 CROY RD.
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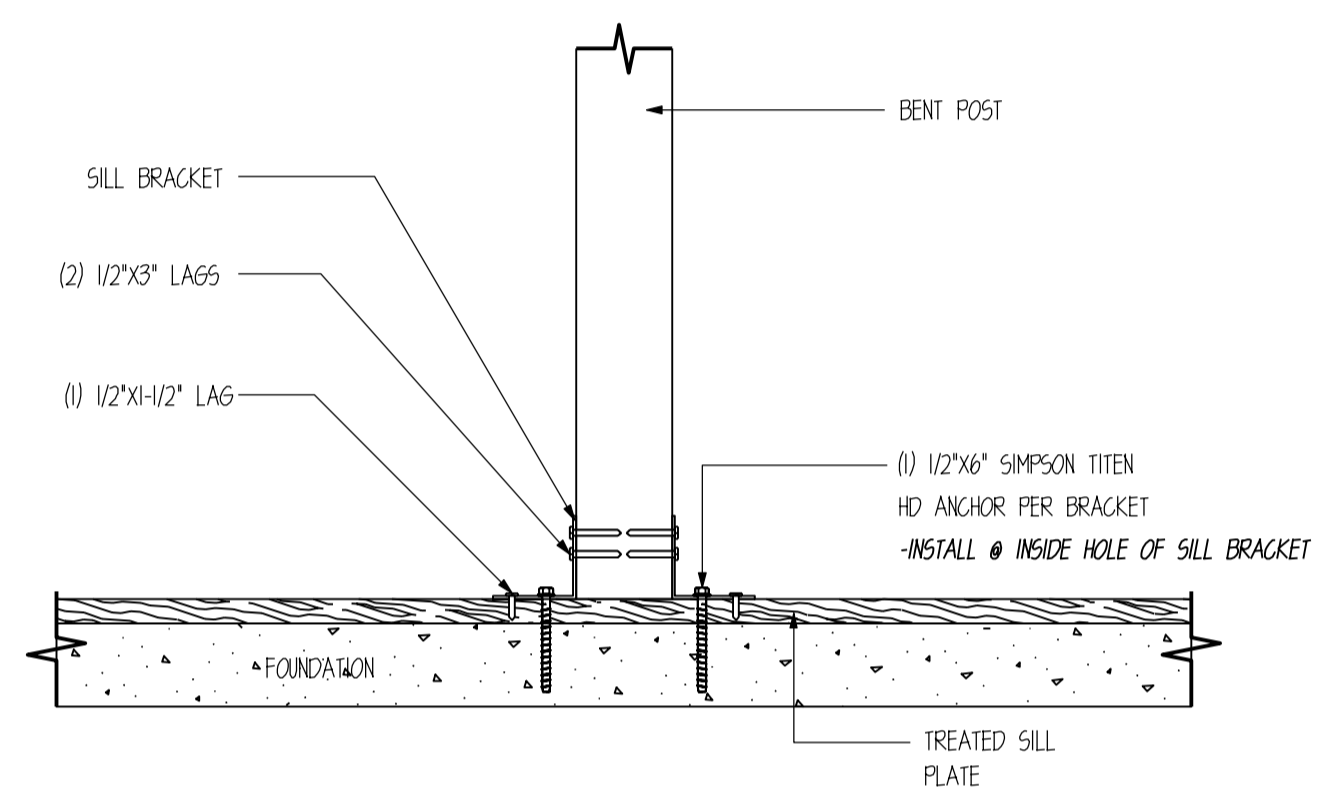
SHEET NOTES

1. BASE OF MAIN FRAME POST CUT TO FIT IN
 FIELD BY GENERAL CONTRACTOR ACCORDING
 TO SPECS ON CUT LISTS. CUT BOTTOM OF
 POST ONLY.



BENT LAYOUT

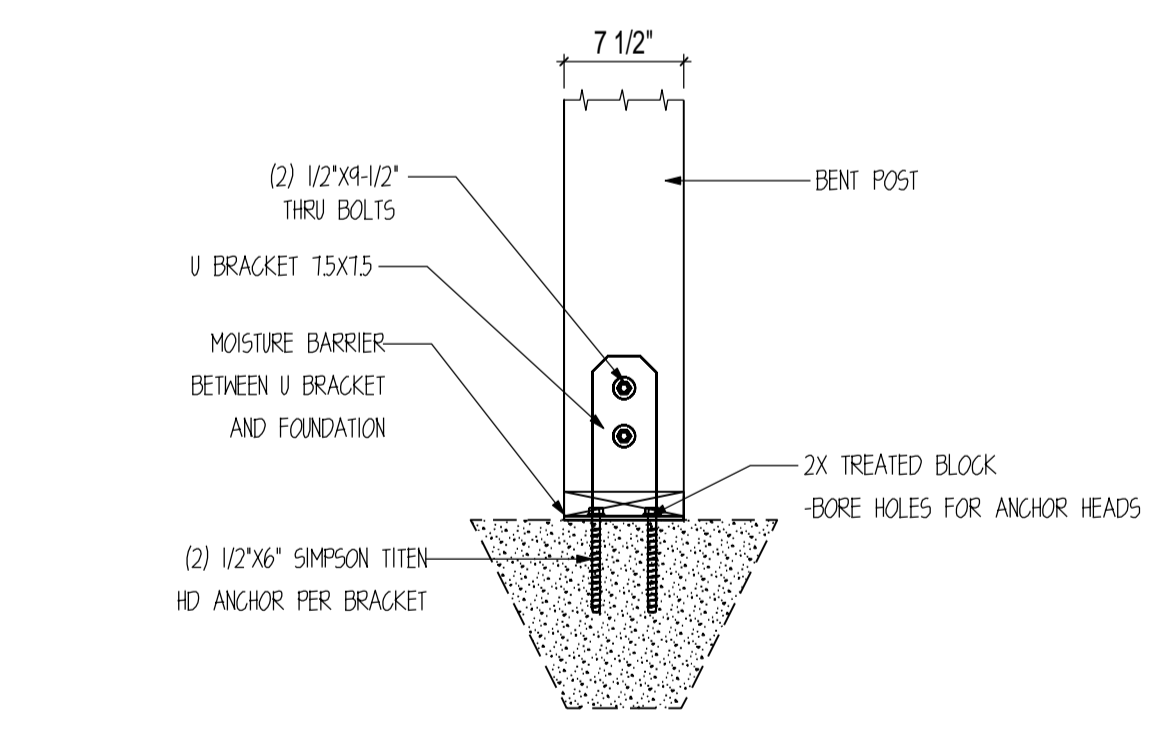
SCALE: 1/4" = 1'



1 POST CONNECTION DETAIL

SCALE: 1" = 1'-0"

POST CONNECTION NOTES:
 1. INSTALL SIMPSON TITEN ANCHOR ON INSIDE HOLE OF SILL BRACKET.

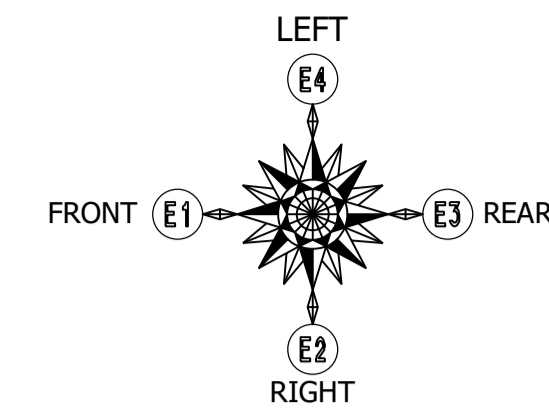


2 POST CONNECTION DETAIL

SCALE: 1" = 1'-0"

2X10 (NOM) TREATED SILL PLATE RIPPED ON SITE TO BE 15"
 -ANCHOR SILL PLATE TO FOUNDATION WITH 5/8" DIA. X 12" J-BOLTS W/ 0.224" PLATE WASHERS @ 48" O.C. AND 12" MAX FROM SILL PLATE JOINTS

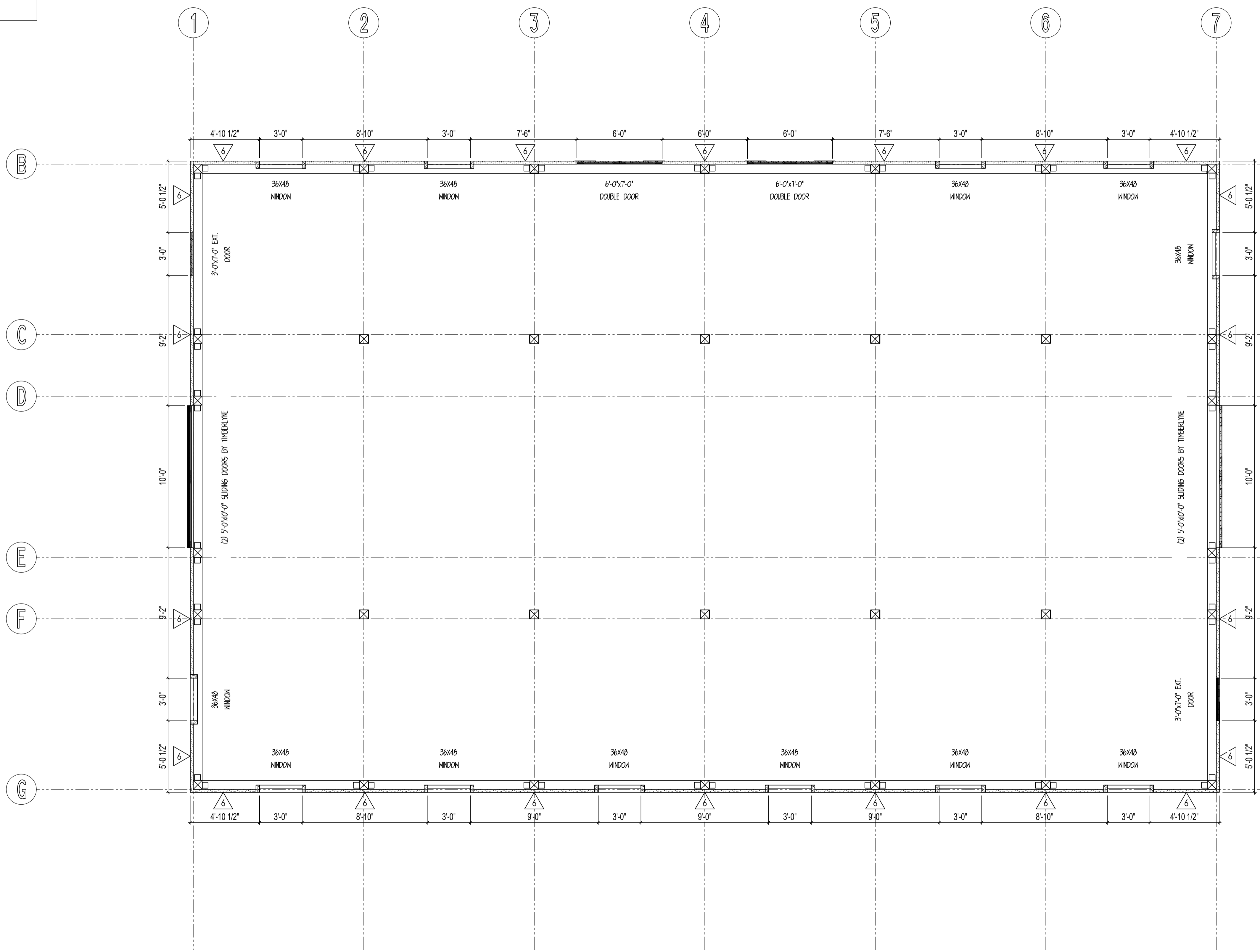
ALL DIMENSIONS ON FOUNDATION PLAN ARE BASED FROM EDGE OF CONCRETE. CONCRETE EXTENDS 1/2" PAST PERIMETER POSTS ON ALL EXT. SIDES FOR GIRT LEDGE (SEE DETAIL A)



SHEAR WALL SCHEDULE				
MARK	WALL SHEATHING	NAIL SIZE	EDGE NAIL SPACING	FIELD NAIL SPACING
6	1/2" CDX SHEATHING	8D NAILS	6" O.C.	12" O.C.

SHEARWALL NOTES:

- HORZ. 2"x6" WALL GIRTS @ 24" O.C. MAX.
- ALL FIELD NAILING TO BE 12" O.C. AND ALL UNSUPPORTED PANEL EDGS ARE TO BE BLOCKED.
- ALL SHEAR WALLS HAVE 2x10 TREATED SILL PLATE.
- ALL SILL PLATE ANCHORED TO FOUNDATION W/ 5/8" DIA. ANCHOR BOLTS W/ 3"x3"x0.229" PLATE WASHERS.
- ANCHOR BOLTS SHALL BE PLACED @ ALL JAMBS, CORNERS, AND INTERSECTIONS.
- FIELD VERIFY ALL DOOR AND WINDOW OPENINGS ON SITE PRIOR TO FRAMING OPENINGS.



MAIN FLOOR SHEAR WALL LAYOUT
SCALE: 1/4" = 1'

NOTE: CONTRACTOR TO FIELD VERIFY OPENING SIZES PRIOR TO FRAMING.

CUSTOMER INFORMATION:

MIKE DEMKOWSKI

PROJECT INFORMATION:

DEMKOWSKI Barn
4901 CROY RD.
MORGAN HILL, CA 95037
NUMBER: SCO123-1
CATEGORY: RESIDENTIAL
STYLE: WESTERN
OTHER: --
OTHER: --
PM: WT/CM

DRAWING INFORMATION:

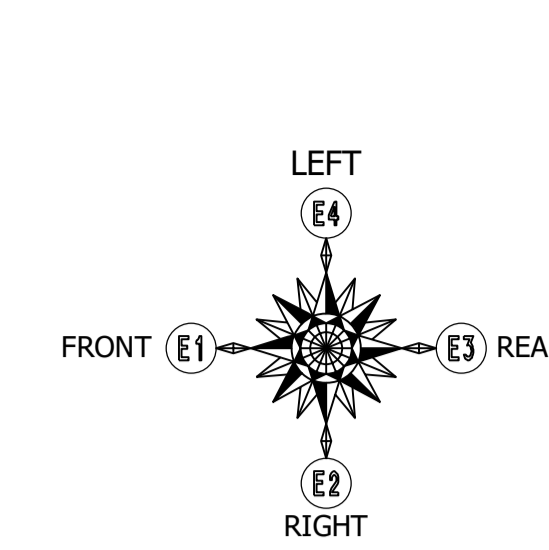
DRAWN BY: AA
DATE: 9/8/2023
STATUS: FINAL PLAN SET
OTHER: --
OTHER: --

SHEET NOTES

SHEAR WALL SCHEDULE				
MARK	WALL SHEATHING	NAIL SIZE	EDGE NAIL SPACING	FIELD NAIL SPACING
△6	1/2" CDX SHEATHING	8D NAILS	6" O.C.	12" O.C.

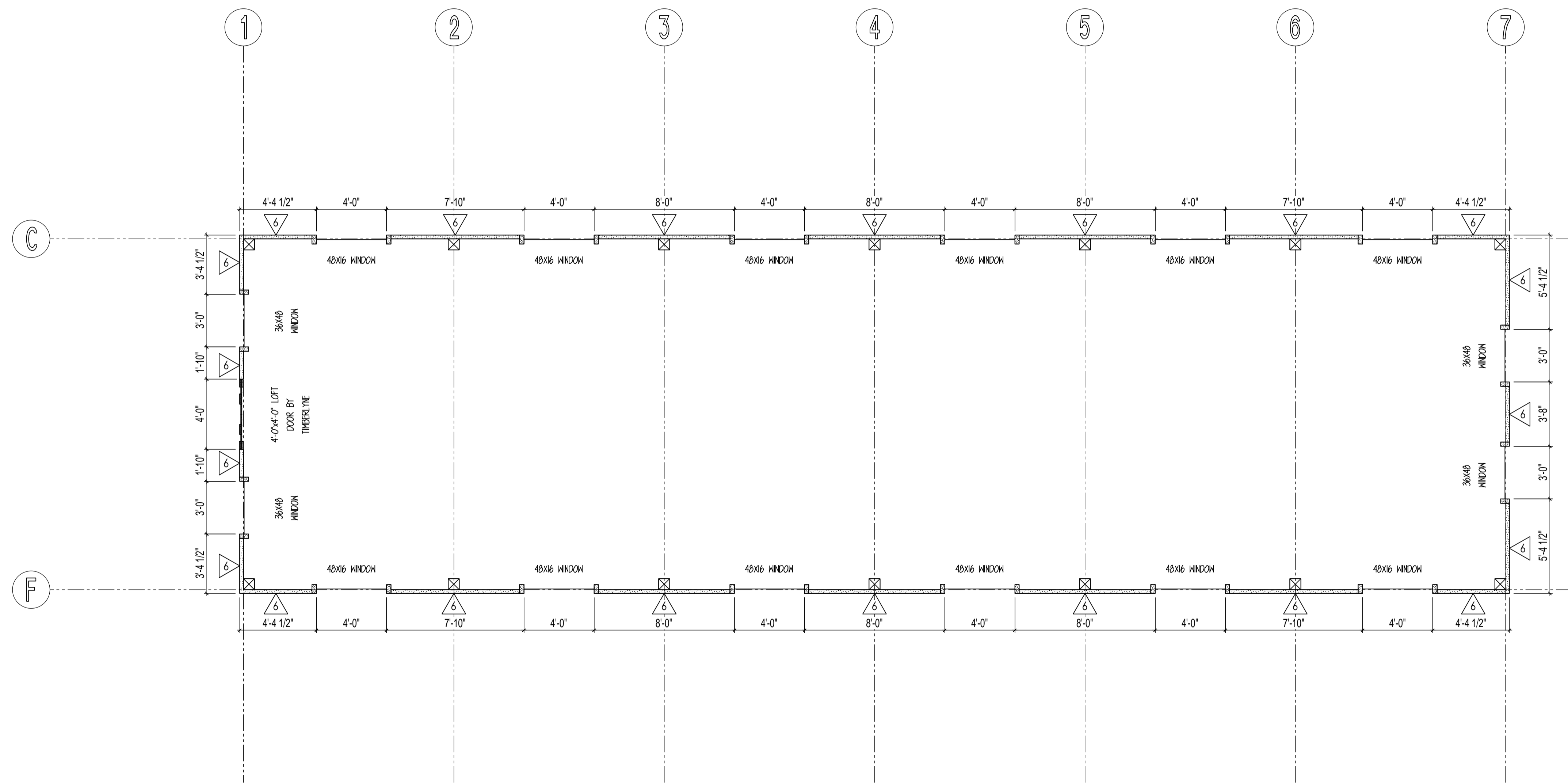
SHEARWALL NOTES:

- HORZ. 2"x6" WALL GIRTS @ 24" O.C. MAX.
- ALL FIELD NAILING TO BE 12" O.C. AND ALL UNSUPPORTED PANEL EDGS ARE TO BE BLOCKED.
- ALL SHEAR WALLS HAVE 2x10 TREATED SILL PLATE.
- ALL SILL PLATE ANCHORED TO FOUNDATION W/ 5/8" DIA. ANCHOR BOLTS W/ 3"x3"x0.229" PLATE WASHERS.
- ANCHOR BOLTS SHALL BE PLACED @ ALL JAMBS, CORNERS, AND INTERSECTIONS.
- FIELD VERIFY ALL DOOR AND WINDOW OPENINGS ON SITE PRIOR TO FRAMING OPENINGS.



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 www.timberlyne.com
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 Wayne, NE 68787
 888-489-1680
 Texas: 613 Hwy 46 E.
 Boerne, TX 78006
 877-680-1680

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CUSTOMER INFORMATION:
MIKE DEMKOWSKI

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DRAWING INFORMATION:
 DRAWN BY: AA
 DATE: 9/8/2023
 STATUS: FINAL PLAN SET
 OTHER: --
 OTHER: --

SHEET NOTES

LOFT FLOOR SHEAR WALL LAYOUT
 SCALE: 1/4" = 1'
 NOTE: CONTRACTOR TO FIELD VERIFY OPENING SIZES PRIOR TO FRAMING.





PLAN VIEW

GENERAL NOTES:

1. THE COORDINATE SYSTEM USED TO DESIGNATE NORTHING AND EASTING OF CONTROL POINTS IS NAD83 CA STATE PLANES ZONE 3.
2. ROW INFORMATION PROVIDED IS APPROXIMATE AND BASED UPON SANTA CLARA COUNTY PARCEL MAP AND AERIAL IMAGING. ROW LIMITS TO BE CONFIRMED PRIOR TO CONSTRUCTION.
3. STRAW MAT SHALL COVER DAYLIGHT SLOPES FROM THE EDGE OF THE PROPOSED DRIVEWAY TO EXISTING GRADE. SLOPES TO BE SEEDED WITH DROUGHT RESISTANT GRASS SEED. COVER WITH STRAW MAT AND WATER DAILY TO ESTABLISH VEGETATION.

PAVEMENT PLAN LEGEND

-  HEAVY DUTY AC PAVEMENT AND BASE
SEE DETAIL 1/C500
-  STRAW MAT



FULL SIZE MAP SCALE: 1" = 20'
H: FEET 0 10 20 40

NOT FOR CONSTRUCTION

NO.	DATE	BY	APPD.	REVISIONS

DESIGNED BY
C. BERILLA

DRAWN BY
R. WHEELER

CHECKED BY

IN CHARGE

DATE

AECOM

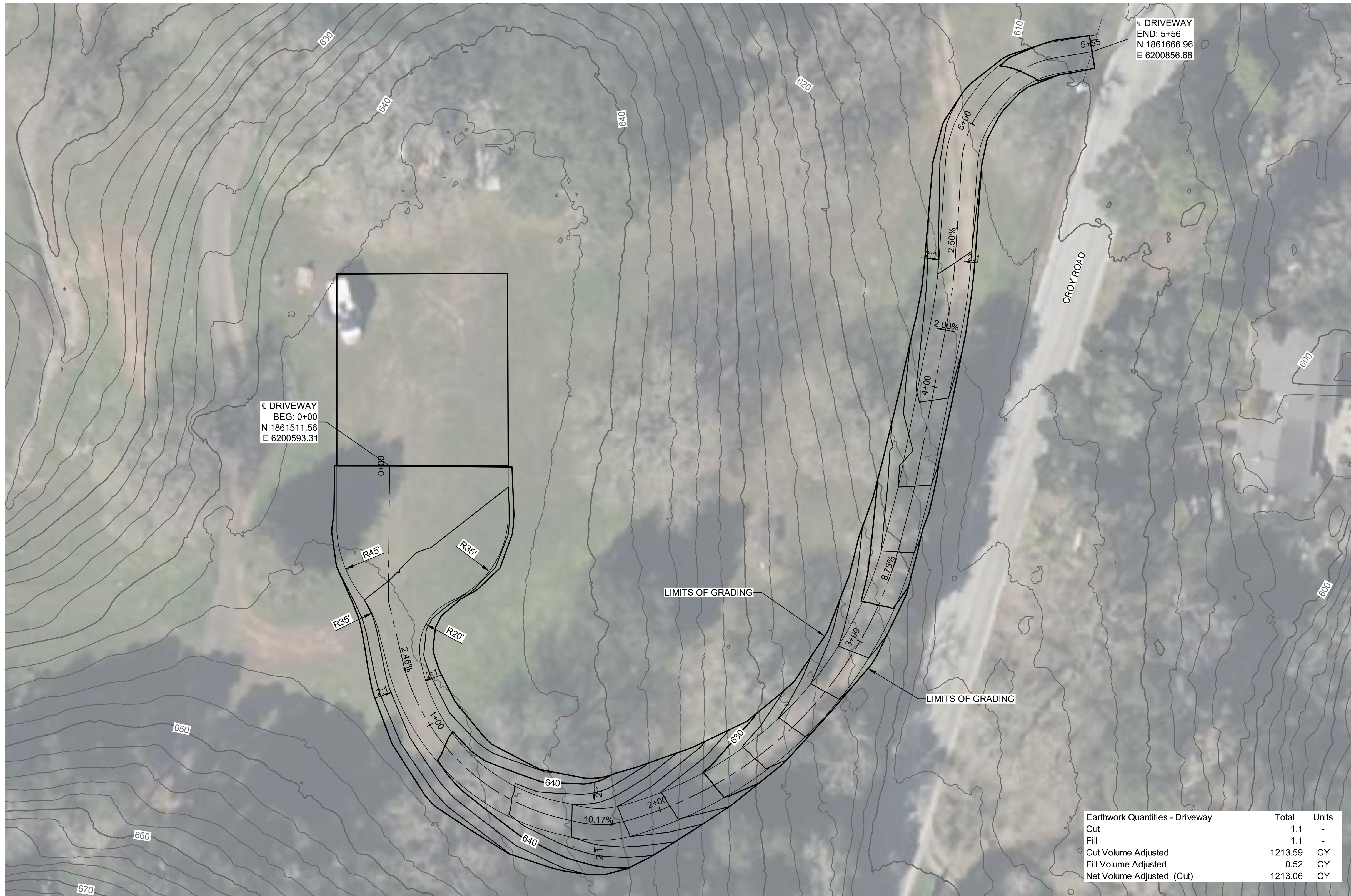
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Oakland, CA 94612
T 510.893.3600

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CROY BARN
MORGAN HILL - CALIFORNIA
CIVIL SITE PLAN

ENVIRONMENTAL ALTERNATIVE CODE
DRAWING NO. C200
SCALE AS SHOWN
SHEET NO. OF

Filename: C-CIV-PLAN200.dwg
 Plot Date: 9/14/2023 9:51 AM
 Save Date: 8/29/2023 10:24 AM
 By: Wheeler, Riana
 BY: Riana, Wheeler



€ DRIVEWAY
 END: 5+56
 N 1861666.96
 E 6200856.68

€ DRIVEWAY
 BEG: 0+00
 N 1861511.56
 E 6200593.31

Earthwork Quantities - Driveway	Total	Units
Cut	1.1	-
Fill	1.1	-
Cut Volume Adjusted	1213.59	CY
Fill Volume Adjusted	0.52	CY
Net Volume Adjusted (Cut)	1213.06	CY

- GENERAL NOTES:**
1. THE COORDINATE SYSTEM USED TO DESIGNATE NORTHING AND EASTING OF CONTROL POINTS IS NAD83 CA STATE PLANES ZONE 3.

PLAN VIEW



FULL SIZE MAP SCALE: 1" = 20'
 H: FEET 0 10 20 40

NOT FOR CONSTRUCTION

Filename: C-CIV-GRD300.dwg
 Plot Date: 9/14/2023 9:42 AM
 Save Date: 8/29/2023 10:18 AM
 By: Wheeler, Riana
 BY: Riana.wheeler

NO.	DATE	BY	APPD.	REVISIONS

DESIGNED BY
C. BERILLA
 DRAWN BY
R. WHEELER
 CHECKED BY

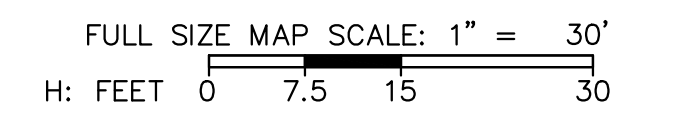
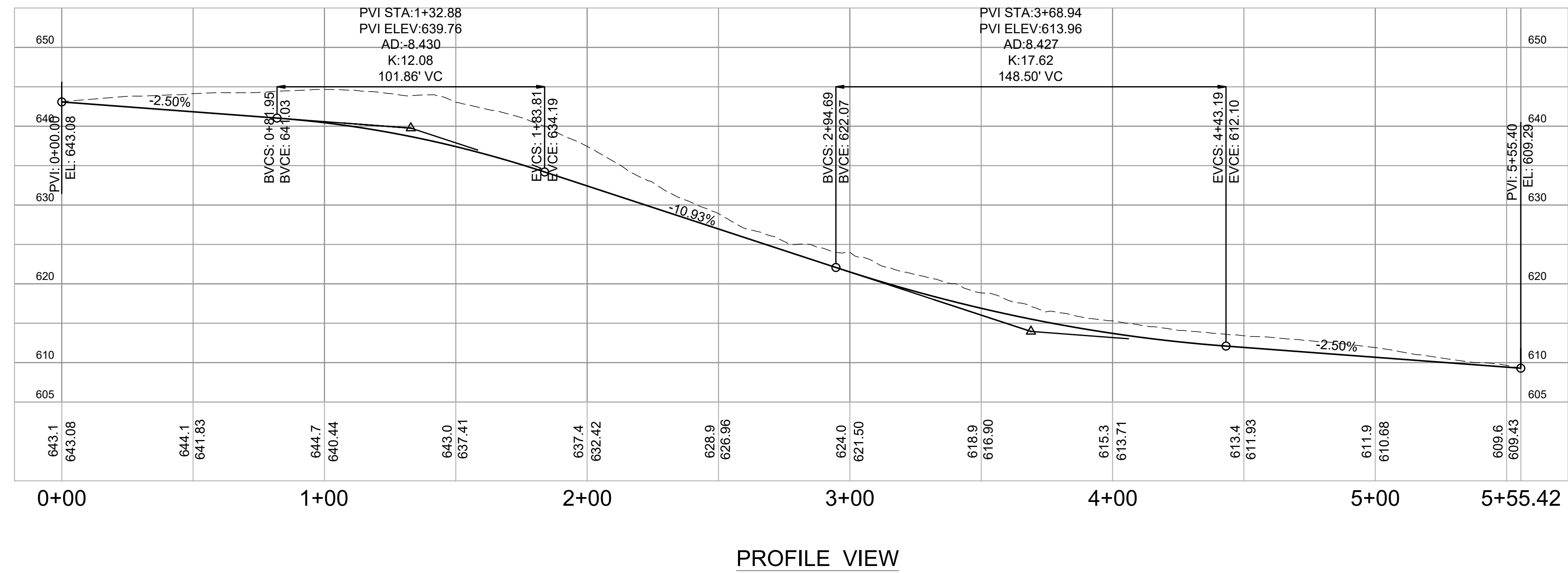
 IN CHARGE

 DATE

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**CROY BARN
 MORGAN HILL - CALIFORNIA
 GRADING PLAN
 DRIVEWAY**

ENVIRONMENTAL ALTERNATIVE CODE	
DRAWING NO.	C300
SCALE	AS SHOWN
SHEET NO.	OF



NOT FOR CONSTRUCTION

DESIGNED BY
C. BERILLA
DRAWN BY
R. WHEELER
CHECKED BY

IN CHARGE

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**CROY BARN
MORGAN HILL - CALIFORNIA
PROFILE PLAN
DRIVEWAY**

ENVIRONMENTAL ALTERNATIVE
CODE
DRAWING NO.
C301
SCALE
AS SHOWN
SHEET NO.
OF

NO.	DATE	BY	APPD.	REVISIONS

Filename: C-CIV-GRD301.dwg
Plot Date: 9/14/2023 9:43 AM
Save Date: 8/29/2023 10:20 AM
By: Wheeler, Riana
By: Riana, Wheeler



PLAN VIEW

GENERAL NOTES:

1. THE COORDINATE SYSTEM USED TO DESIGNATE NORTHING AND EASTING OF CONTROL POINTS IS NAD83 CA STATE PLANES ZONE 3.



FULL SIZE MAP SCALE: 1" = 10'
H: FEET 0 5 10 20

NOT FOR CONSTRUCTION

NO.	DATE	BY	APPD.	REVISIONS

DESIGNED BY
C. BERILLA

DRAWN BY
R. WHEELER

CHECKED BY

IN CHARGE

DATE

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CROY BARN
MORGAN HILL - CALIFORNIA
GRADING PLAN
CONCRETE PAD

ENVIRONMENTAL ALTERNATIVE
CODE

DRAWING NO.
C400

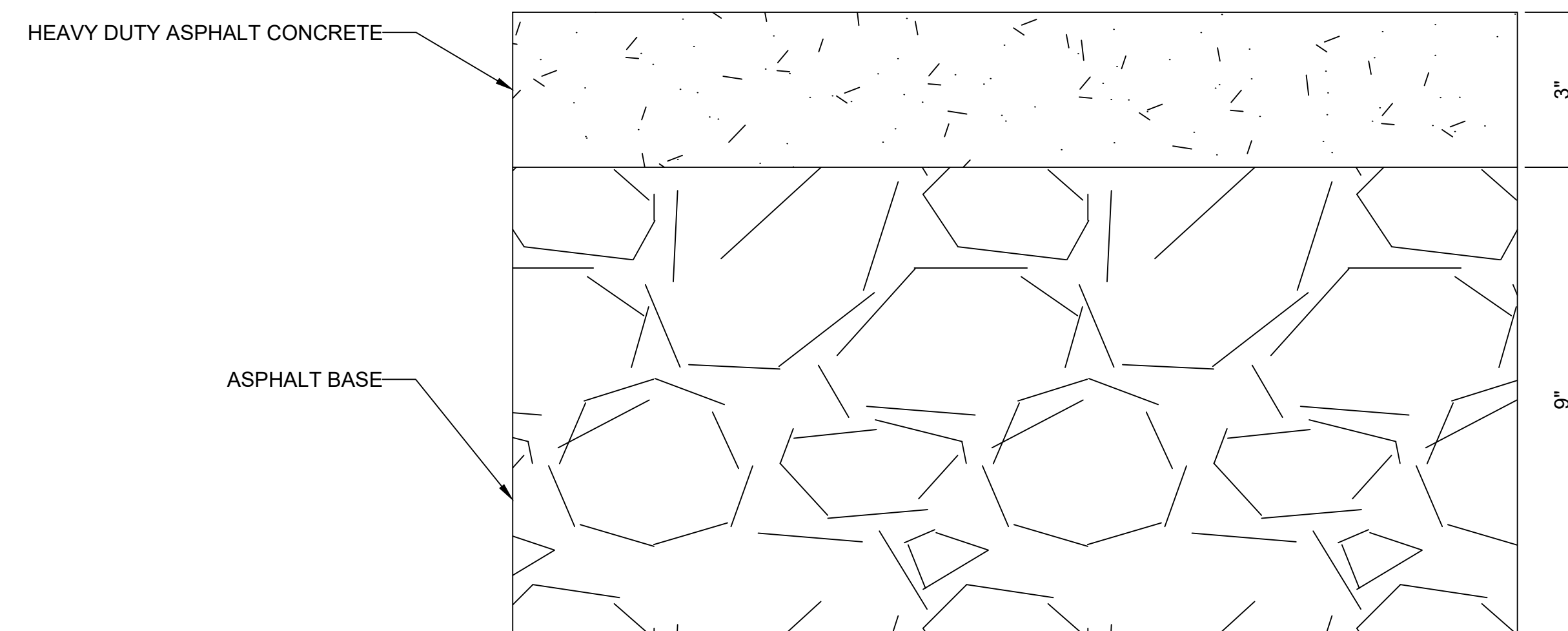
SCALE
AS SHOWN

SHEET NO.
OF

Filename: C-CIV-GRD400.dwg
Plot Date: 9/14/2023 9:46 AM
Save Date: 9/14/2023 9:36 AM
By: Wheeler, Riana
BY: Riana, Wheeler

NOTES:

1. ASSUMED R-VALUE OF 10 AND ASSUMED TI-VALUE OF 5 FOR HEAVY DUTY ASPHALT CONCRETE.
2. PAVEMENT SECTIONS ARE PRELIMINARY. PAVEMENT SECTION DESIGN TO BE APPROVED BY ROAD COMMISSIONER BASED ON DEVELOPER-FURNISHED TI & R-VALUE, OR STRUCTURAL SECTION TO BE SUPPLIED BY ROAD COMMISSIONER.



1 PAVEMENT SECTION
 C500 DETAIL
 1" = 2'

NOT FOR CONSTRUCTION

NO.	DATE	BY	APPD.	REVISIONS

DESIGNED BY C. BERILLA
DRAWN BY R. WHEELER
CHECKED BY
IN CHARGE
DATE

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CROY BARN
MORGAN HILL - CALIFORNIA
CIVIL DETAIL SHEET

ENVIRONMENTAL ALTERNATIVE CODE
DRAWING NO. C500
SCALE AS SHOWN
SHEET NO. OF

Attachment C

Schematic Plans



PLAN VIEW

FULL SIZE MAP SCALE: 1" = 20'
 H: FEET 0 10 20 40

NOT FOR CONSTRUCTION

Filename: C-CIV-EXB100.dwg
 Plot Date: 10/16/2023 11:42 AM
 Save Date: 10/16/2023 11:19 AM
 By: Wheeler, Riana
 BY: Riana, Wheeler

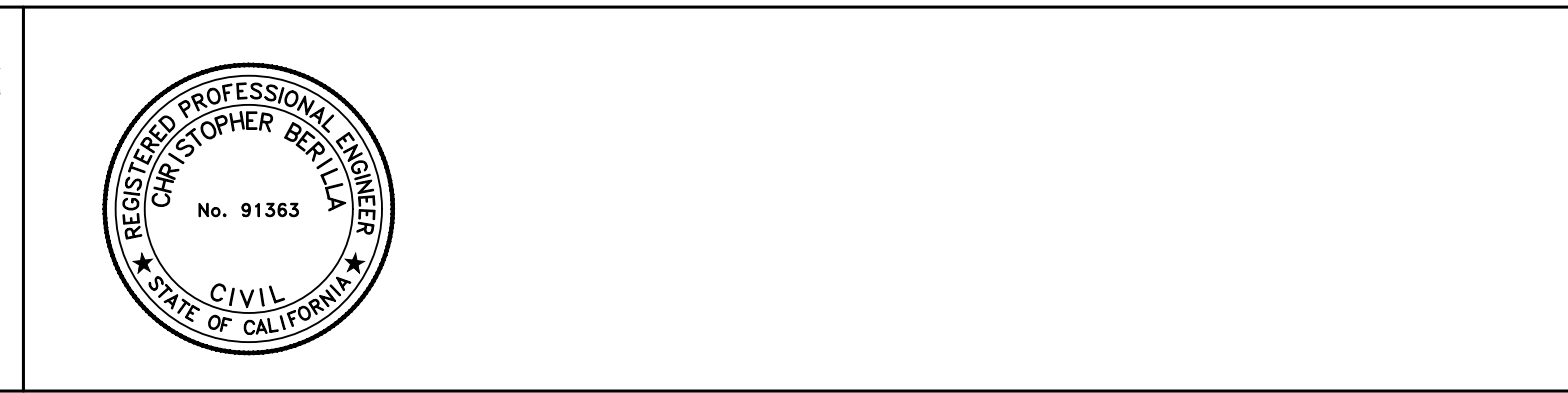
NO.	DATE	BY	APPD.	REVISIONS

DESIGNED BY
C. BERILLA
 DRAWN BY
R. WHEELER
 CHECKED BY

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 DATE

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CROY BARN
 MORGAN HILL - CALIFORNIA
 COMPATIBLE USE DETERMINATION PLAN

ENVIRONMENTAL ALTERNATIVE CODE
 DRAWING NO.
EXHIBIT A
 SCALE
AS SHOWN
 SHEET NO.
 OF



PLAN VIEW

FULL SIZE MAP SCALE: 1" = 150'
 H: FEET 0 75 150 300

NOT FOR CONSTRUCTION

NO.	DATE	BY	APPD.	REVISIONS

DESIGNED BY
C. BERILLA
 DRAWN BY
R. WHEELER
 CHECKED BY

 IN CHARGE

 DATE

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CROY BARN
 MORGAN HILL - CALIFORNIA
 COMPATIBLE USE DETERMINATION PLAN

ENVIRONMENTAL ALTERNATIVE CODE
 DRAWING NO.
EXHIBIT B
 SCALE
AS SHOWN
 SHEET NO.
 OF

Filename: C-CIV-EXB200.dwg
 Plot Date: 10/17/2023 9:13 AM
 Save Date: 10/16/2023 11:43 AM
 By: Riana Wheeler
 BY: Riana Wheeler

Attachment D

Calculations

Williamson Act Compatible Use Determination Calculation

TOTAL SITE AREA:

	SQ. FT.	SIZE	DESCRIPTION
	2207664.36	50.681 AC	TOTAL AREA - APN 742-30-003

STRUCTURES:

NO.	SQ. FT.	SIZE	DESCRIPTION
1	4608	64' x 72'	BARN STRUCTURE
2	200	10' X 20'	STORAGE CONTAINER (A)
3	200	10' X 20'	STORAGE CONTAINER (B)
4	200	10' X 20'	STORAGE CONTAINER (C)

HARDSCAPE & ASSOCIATED IMPROVEMENTS:

NO.	SQ. FT.	DESCRIPTION
1	9114	ASPHALT DRIVEWAY

APN TOTAL:

%	SQ. FT.	ACRAGE	DESCRIPTION
0.65%	14322	0.329	AREA OF ANCILLARY USES (HARDSCAPE/STRUCTURES ETC.)
99.35%	2193342	50.352	AREA OF LAND IN AGRICULTURAL PRODUCTION
	2207664.36	50.681 AC	= TOTAL PARCEL SIZE

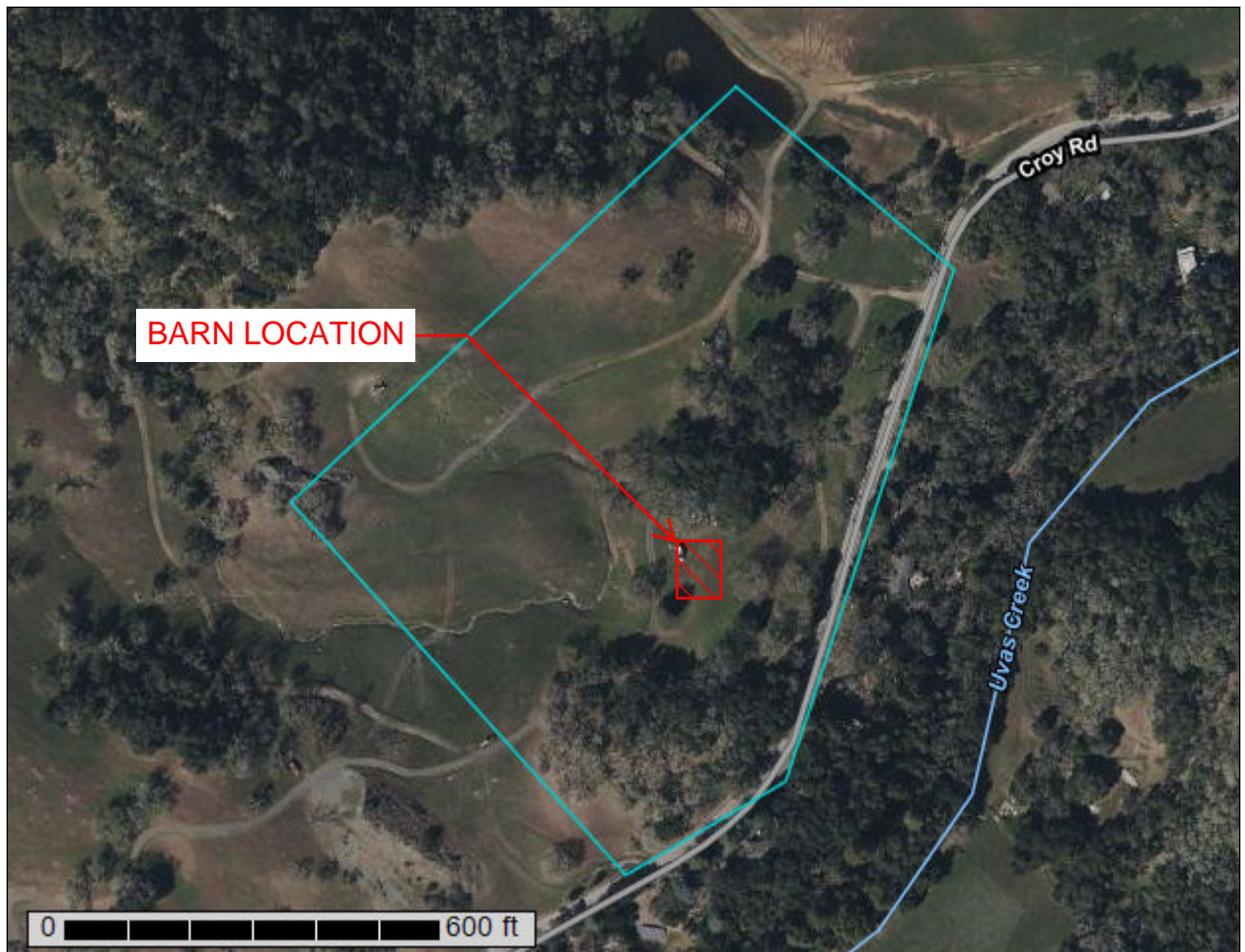


Attachment E

Soils Report

Custom Soil Resource Report for Eastern Santa Clara Area, California

Croy Barn Soil Report



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

Custom Soil Resource Report

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

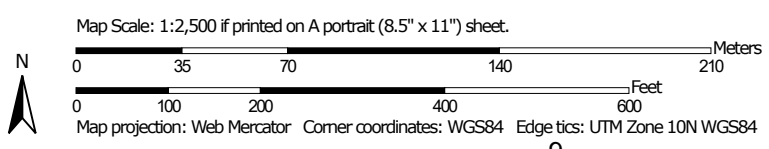
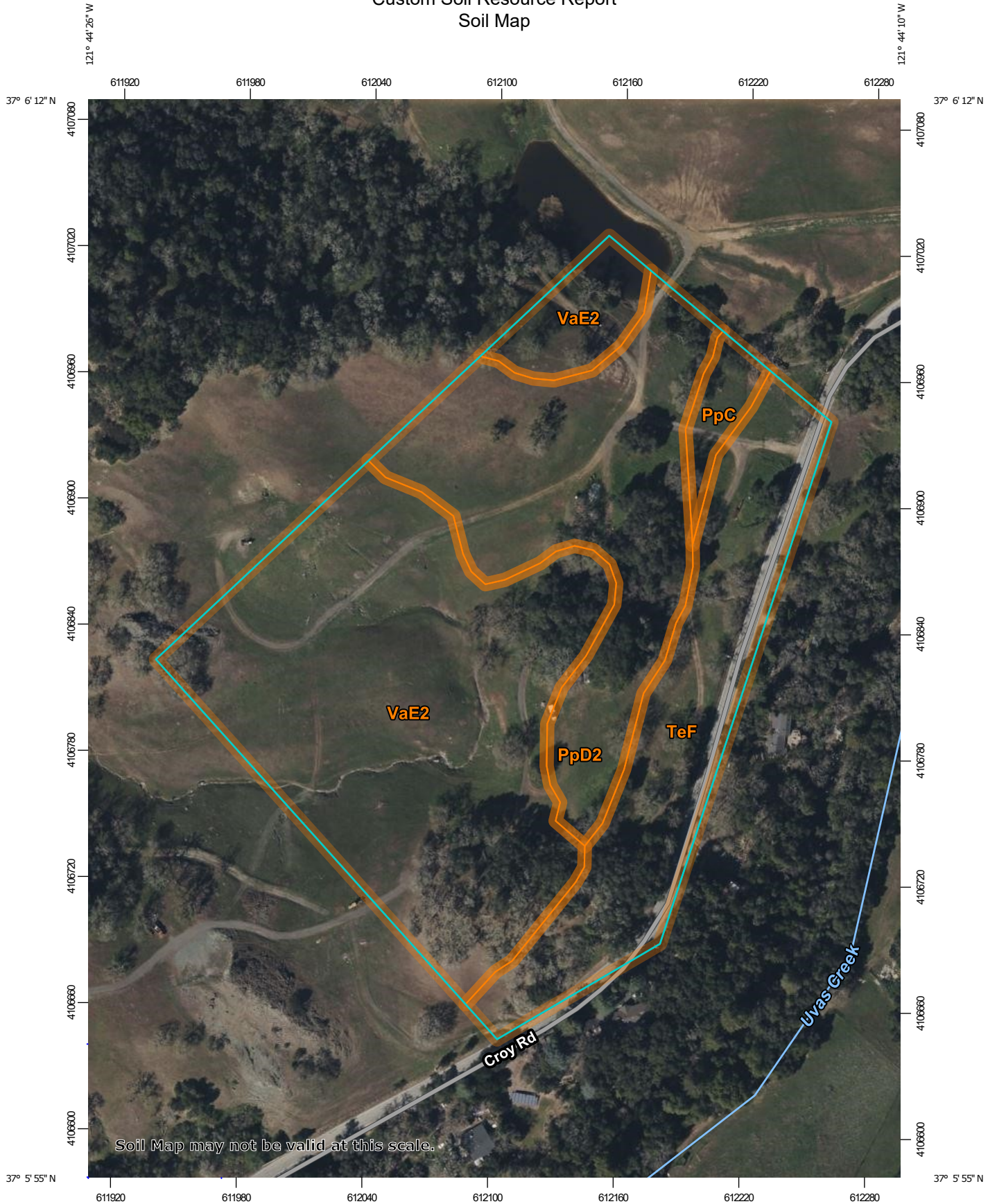
Custom Soil Resource Report

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report Soil Map



MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines


 Soil Map Unit Points

Special Point Features

-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot

-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features


Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eastern Santa Clara Area, California
 Survey Area Data: Version 19, Sep 11, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 31, 2019—Mar 11, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
PpC	Pleasanton gravelly loam, 2 to 9 percent slopes	0.4	2.4%
PpD2	Pleasanton gravelly loam, 9 to 15 percent slopes, eroded	4.4	26.7%
TeF	Terrace escarpments	3.5	21.3%
VaE2	Vallecitos rocky loam, 15 to 30 percent slopes, eroded	8.2	49.6%
Totals for Area of Interest		16.5	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate

Custom Soil Resource Report

pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Eastern Santa Clara Area, California

PpC—Pleasanton gravelly loam, 2 to 9 percent slopes

Map Unit Setting

National map unit symbol: hbl7
Elevation: 200 to 990 feet
Mean annual precipitation: 16 to 20 inches
Mean annual air temperature: 57 to 61 degrees F
Frost-free period: 260 to 275 days
Farmland classification: Prime farmland if irrigated

Map Unit Composition

Pleasanton and similar soils: 85 percent
Minor components: 9 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pleasanton

Setting

Landform: Alluvial fans, terraces
Landform position (two-dimensional): Footslope, toeslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium

Typical profile

H1 - 0 to 18 inches: gravelly loam
H2 - 18 to 44 inches: gravelly clay loam
H3 - 44 to 66 inches: gravelly sandy clay loam

Properties and qualities

Slope: 2 to 9 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)
Available water supply, 0 to 60 inches: Moderate (about 7.9 inches)

Interpretive groups

Land capability classification (irrigated): 2s
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: C
Ecological site: R014XG917CA - Dry Loamy Fan
Hydric soil rating: No

Minor Components

Cropley, clay

Percent of map unit: 3 percent

Custom Soil Resource Report

Hydric soil rating: No

Hillgate, sil

Percent of map unit: 3 percent

Hydric soil rating: No

Garretson, grl

Percent of map unit: 3 percent

Hydric soil rating: No

PpD2—Pleasanton gravelly loam, 9 to 15 percent slopes, eroded

Map Unit Setting

National map unit symbol: hbl8

Elevation: 200 to 990 feet

Mean annual precipitation: 16 to 20 inches

Mean annual air temperature: 57 to 61 degrees F

Frost-free period: 260 to 275 days

Farmland classification: Not prime farmland

Map Unit Composition

Pleasanton and similar soils: 85 percent

Minor components: 3 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pleasanton

Setting

Landform: Terraces, alluvial fans

Landform position (two-dimensional): Toeslope, footslope

Landform position (three-dimensional): Tread

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Alluvium

Typical profile

H1 - 0 to 18 inches: gravelly loam

H2 - 18 to 44 inches: gravelly clay loam

H3 - 44 to 66 inches: gravelly sandy clay loam

Properties and qualities

Slope: 9 to 15 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)

Custom Soil Resource Report

Available water supply, 0 to 60 inches: Moderate (about 7.9 inches)

Interpretive groups

Land capability classification (irrigated): 3e

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: C

Ecological site: R014XG911CA - Dry Loamy Terrace

Other vegetative classification: LOAMY (015XD047CA_1)

Hydric soil rating: No

Minor Components

Hillgate

Percent of map unit: 3 percent

Hydric soil rating: No

TeF—Terrace escarpments

Map Unit Setting

National map unit symbol: hblw

Mean annual precipitation: 16 to 20 inches

Mean annual air temperature: 57 to 61 degrees F

Farmland classification: Not prime farmland

Map Unit Composition

Terrace escarpments: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Terrace Escarpments

Setting

Landform: Terraces

Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Tread

Down-slope shape: Linear

Across-slope shape: Linear

Typical profile

H1 - 0 to 60 inches: variable

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Other vegetative classification: LOAMY (015XD047CA_1)

Hydric soil rating: No

VaE2—Vallecitos rocky loam, 15 to 30 percent slopes, eroded

Map Unit Setting

National map unit symbol: hblx
Elevation: 1,000 to 3,800 feet
Mean annual precipitation: 14 to 20 inches
Mean annual air temperature: 57 to 61 degrees F
Frost-free period: 175 to 250 days
Farmland classification: Not prime farmland

Map Unit Composition

Vallecitos and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Vallecitos

Setting

Landform: Mountains
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Concave
Across-slope shape: Convex
Parent material: Residuum weathered from shale

Typical profile

A1 - 0 to 2 inches: loam
A2 - 2 to 10 inches: loam
Bt1 - 10 to 16 inches: clay
Bt2 - 16 to 19 inches: clay
R - 19 to 23 inches: bedrock

Properties and qualities

Slope: 15 to 30 percent
Depth to restrictive feature: 16 to 30 inches to lithic bedrock
Drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Moderately low (0.01 to 0.03 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Very low (about 2.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: D
Ecological site: R015XD093CA - SHALLOW LOAMY
Hydric soil rating: No

Minor Components

Rock outcrop

Percent of map unit: 10 percent
Landform: Mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Concave
Across-slope shape: Convex
Hydric soil rating: Unranked

Gaviota, rocky

Percent of map unit: 3 percent
Landform: Mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Concave
Across-slope shape: Convex
Hydric soil rating: No

Montara, rocky

Percent of map unit: 2 percent
Landform: Mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Concave
Across-slope shape: Convex
Hydric soil rating: No

Soil Information for All Uses

Soil Properties and Qualities

The Soil Properties and Qualities section includes various soil properties and qualities displayed as thematic maps with a summary table for the soil map units in the selected area of interest. A single value or rating for each map unit is generated by aggregating the interpretive ratings of individual map unit components. This aggregation process is defined for each property or quality.

Soil Qualities and Features

Soil qualities are behavior and performance attributes that are not directly measured, but are inferred from observations of dynamic conditions and from soil properties. Example soil qualities include natural drainage, and frost action. Soil features are attributes that are not directly part of the soil. Example soil features include slope and depth to restrictive layer. These features can greatly impact the use and management of the soil.

Hydrologic Soil Group

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

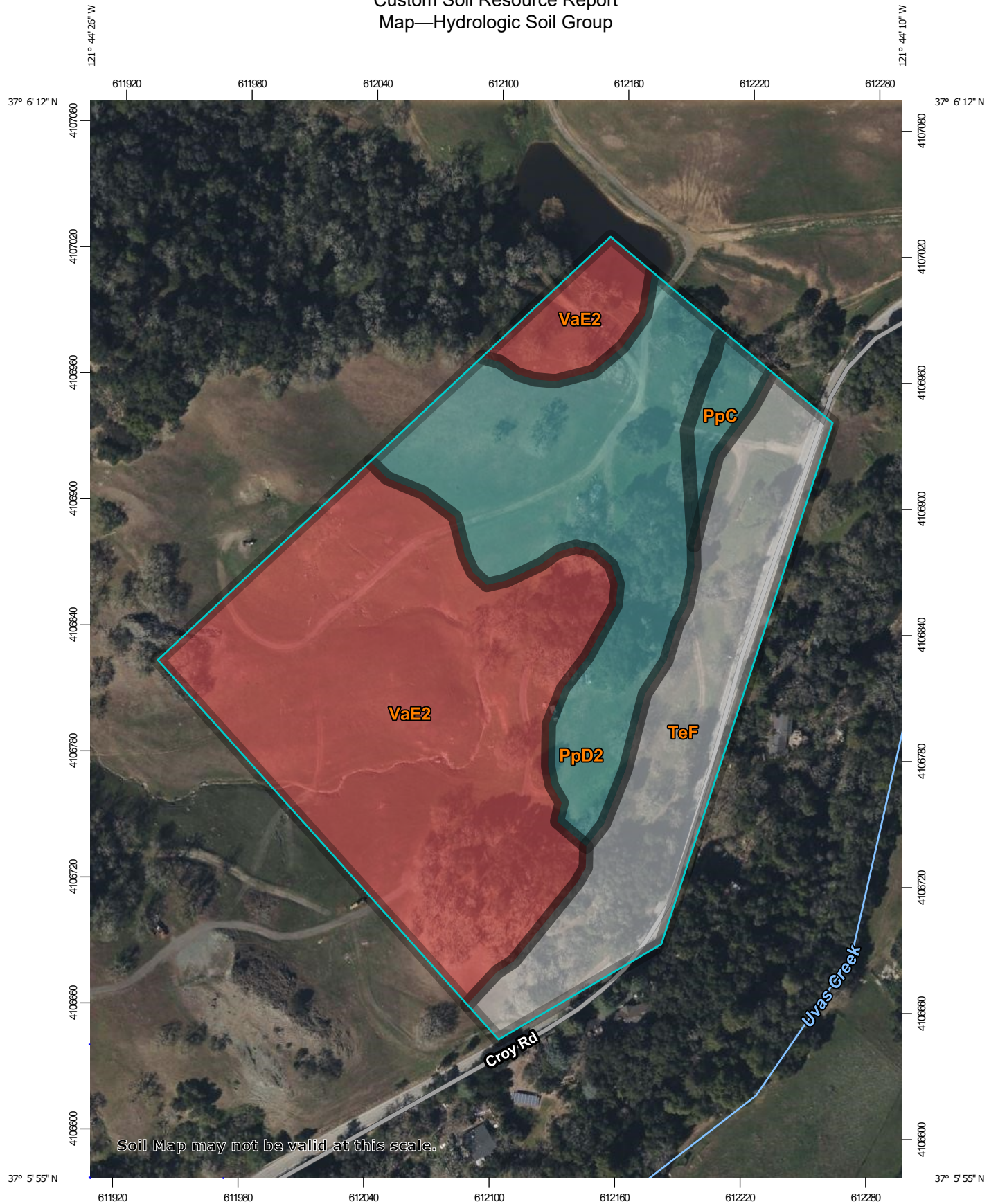
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Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

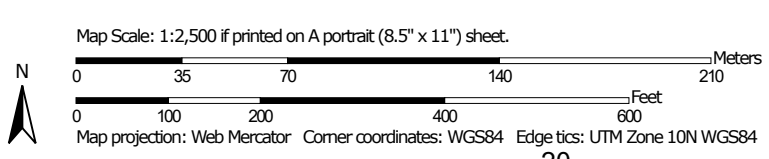
Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

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Map—Hydrologic Soil Group




Soil Map may not be valid at this scale.



MAP LEGEND

Area of Interest (AOI)









 Area of Interest (AOI)

Soils

Soil Rating Polygons





-  A
-  A/D
-  B
-  B/D
-  C
-  C/D
-  D
-  Not rated or not available

Soil Rating Lines


-  A
-  A/D
-  B
-  B/D
-  C
-  C/D
-  D
-  Not rated or not available

Soil Rating Points






-  A
-  A/D
-  B
-  B/D

-  C
-  C/D
-  D
-  Not rated or not available


Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eastern Santa Clara Area, California
 Survey Area Data: Version 19, Sep 11, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 31, 2019—Mar 11, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Table—Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
PpC	Pleasanton gravelly loam, 2 to 9 percent slopes	C	0.4	2.4%
PpD2	Pleasanton gravelly loam, 9 to 15 percent slopes, eroded	C	4.4	26.7%
TeF	Terrace escarpments		3.5	21.3%
VaE2	Vallecitos rocky loam, 15 to 30 percent slopes, eroded	D	8.2	49.6%
Totals for Area of Interest			16.5	100.0%

Rating Options—Hydrologic Soil Group

Aggregation Method: Dominant Condition

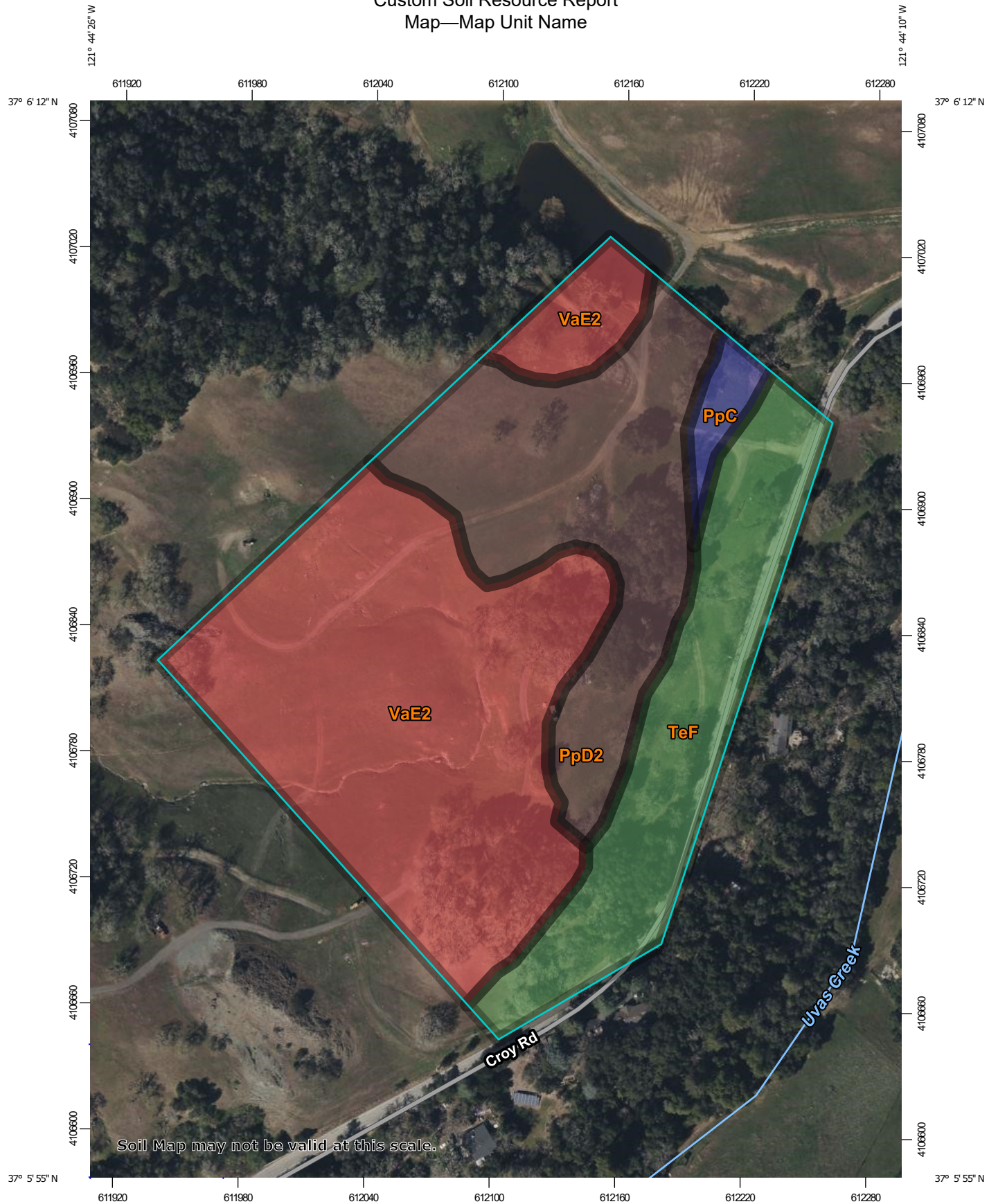
Component Percent Cutoff: None Specified

Tie-break Rule: Higher

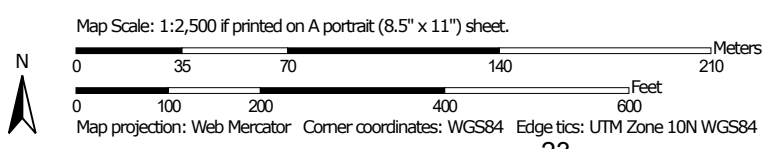
Map Unit Name

A soil map unit is a collection of soil areas or nonsoil areas (miscellaneous areas) delineated in a soil survey. Each map unit is given a name that uniquely identifies the unit in a particular soil survey area.

Custom Soil Resource Report
Map—Map Unit Name




Soil Map may not be valid at this scale.








MAP LEGEND

Area of Interest (AOI)






 Area of Interest (AOI)

Soils






Soil Rating Polygons

-  Pleasanton gravelly loam, 2 to 9 percent slopes
-  Pleasanton gravelly loam, 9 to 15 percent slopes, eroded
-  Terrace escarpments
-  Vallecitos rocky loam, 15 to 30 percent slopes, eroded
-  Not rated or not available


Soil Rating Lines

-  Pleasanton gravelly loam, 2 to 9 percent slopes
-  Pleasanton gravelly loam, 9 to 15 percent slopes, eroded
-  Terrace escarpments
-  Vallecitos rocky loam, 15 to 30 percent slopes, eroded
-  Not rated or not available






Soil Rating Points

-  Pleasanton gravelly loam, 2 to 9 percent slopes
-  Pleasanton gravelly loam, 9 to 15 percent slopes, eroded
-  Terrace escarpments
-  Vallecitos rocky loam, 15 to 30 percent slopes, eroded
-  Not rated or not available


Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

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Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

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Soil Survey Area: Eastern Santa Clara Area, California
 Survey Area Data: Version 19, Sep 11, 2023

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Date(s) aerial images were photographed: Mar 31, 2019—Mar 11, 2022

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Table—Map Unit Name

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
PpC	Pleasanton gravelly loam, 2 to 9 percent slopes	Pleasanton gravelly loam, 2 to 9 percent slopes	0.4	2.4%
PpD2	Pleasanton gravelly loam, 9 to 15 percent slopes, eroded	Pleasanton gravelly loam, 9 to 15 percent slopes, eroded	4.4	26.7%
TeF	Terrace escarpments	Terrace escarpments	3.5	21.3%
VaE2	Vallecitos rocky loam, 15 to 30 percent slopes, eroded	Vallecitos rocky loam, 15 to 30 percent slopes, eroded	8.2	49.6%
Totals for Area of Interest			16.5	100.0%

Rating Options—Map Unit Name

Aggregation Method: No Aggregation Necessary

Tie-break Rule: Lower

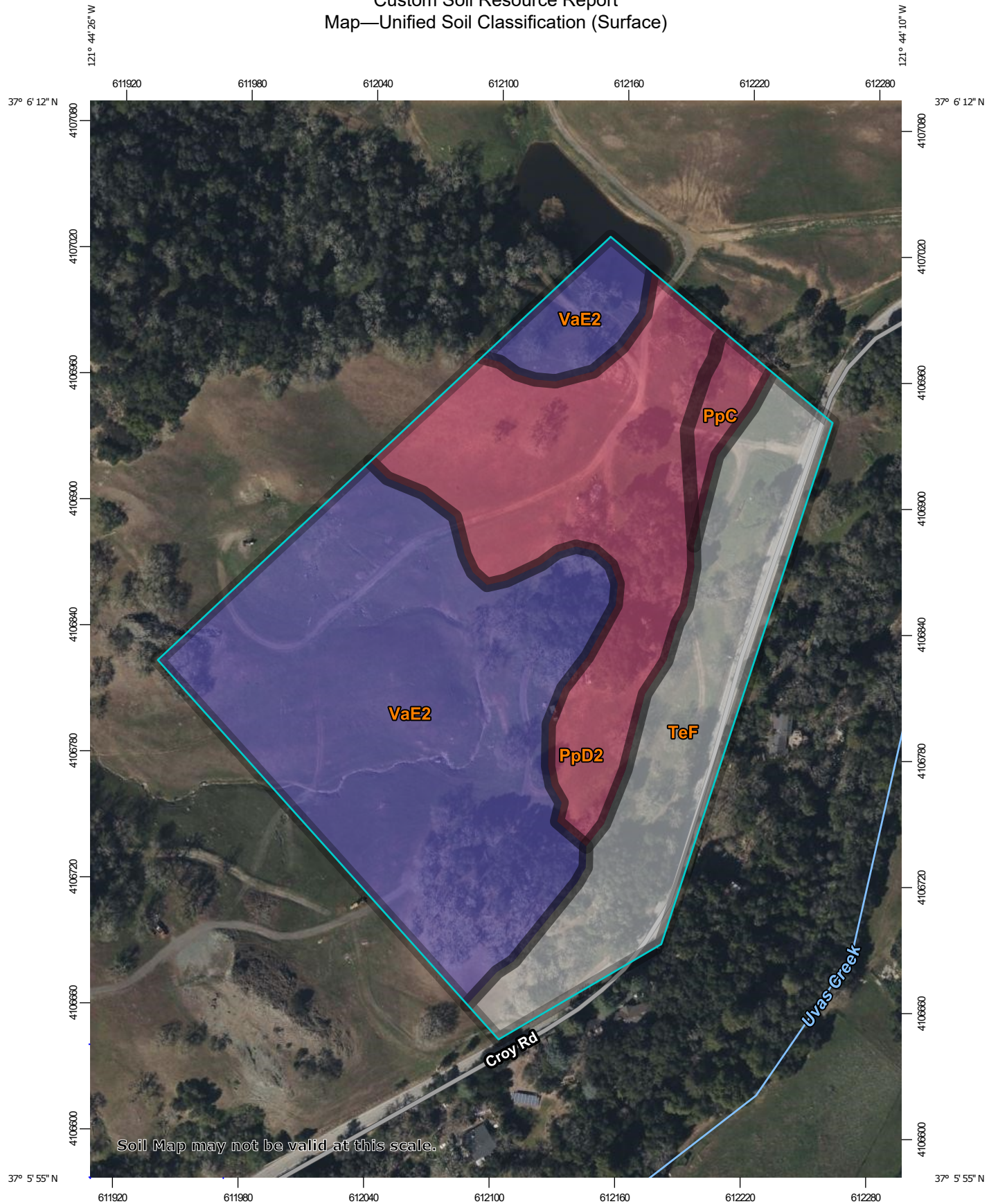
Unified Soil Classification (Surface)

The Unified soil classification system classifies mineral and organic mineral soils for engineering purposes on the basis of particle-size characteristics, liquid limit, and plasticity index. It identifies three major soil divisions: (i) coarse-grained soils having less than 50 percent, by weight, particles smaller than 0.074 mm in diameter; (ii) fine-grained soils having 50 percent or more, by weight, particles smaller than 0.074 mm in diameter; and (iii) highly organic soils that demonstrate certain organic characteristics. These divisions are further subdivided into a total of 15 basic soil groups. The major soil divisions and basic soil groups are determined on the basis of estimated or measured values for grain-size distribution and Atterberg limits. ASTM D 2487 shows the criteria chart used for classifying soil in the Unified system and the 15 basic soil groups of the system and the plasticity chart for the Unified system.

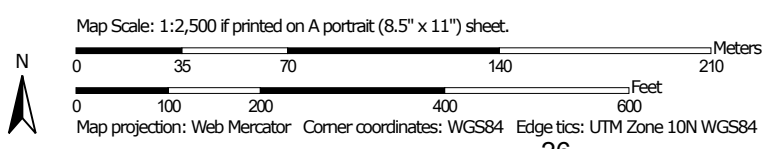
The various groupings of this classification correlate in a general way with the engineering behavior of soils. This correlation provides a useful first step in any field or laboratory investigation for engineering purposes. It can serve to make some general interpretations relating to probable performance of the soil for engineering uses.

For each soil horizon in the database one or more Unified soil classifications may be listed. One is marked as the representative or most commonly occurring. The representative classification is shown here for the surface layer of the soil.

Custom Soil Resource Report
Map—Unified Soil Classification (Surface)




Soil Map may not be valid at this scale.



Custom Soil Resource Report

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)



Soils

Soil Rating Polygons

-  CH
-  CL
-  CL-A (proposed)
-  CL-K (proposed)
-  CL-ML
-  CL-O (proposed)
-  CL-T (proposed)
-  GC
-  GC-GM
-  GM
-  GP
-  GP-GC
-  GP-GM
-  GW
-  GW-GC
-  GW-GM
-  MH
-  MH-A (proposed)
-  MH-K (proposed)
-  MH-O (proposed)
-  MH-T (proposed)
-  ML







































-  ML-A (proposed)
-  ML-K (proposed)
-  ML-O (proposed)
-  ML-T (proposed)
-  OH
-  OH-T (proposed)
-  OL
-  PT
-  SC
-  SC-SM
-  SM
-  SP
-  SP-SC
-  SP-SM
-  SW
-  SW-SC
-  SW-SM
-  Not rated or not available

Soil Rating Lines


-  CH
-  CL
-  CL-A (proposed)
-  CL-K (proposed)
-  CL-ML
-  CL-O (proposed)
-  CL-T (proposed)
-  GC
-  GC-GM
-  GM
-  GP
-  GP-GC
-  GP-GM
-  GW
-  GW-GC
-  GW-GM
-  MH
-  MH-A (proposed)
-  MH-K (proposed)
-  MH-O (proposed)
-  MH-T (proposed)
-  ML
-  ML-A (proposed)
-  ML-K (proposed)
-  ML-O (proposed)
-  ML-T (proposed)
-  OH
-  OH-T (proposed)
-  OL
-  PT
-  SC
-  SC-SM
-  SM

-  SP
-  SP-SC
-  SP-SM
-  SW
-  SW-SC
-  SW-SM
-  Not rated or not available

Soil Rating Points

-  CH
-  CL
-  CL-A (proposed)
-  CL-K (proposed)
-  CL-ML
-  CL-O (proposed)
-  CL-T (proposed)
-  GC
-  GC-GM
-  GM
-  GP
-  GP-GC
-  GP-GM
-  GW
-  GW-GC
-  GW-GM
-  MH
-  MH-A (proposed)
-  MH-K (proposed)
-  MH-O (proposed)
-  MH-T (proposed)
-  ML
-  ML-A (proposed)
-  ML-K (proposed)
-  ML-O (proposed)
-  ML-T (proposed)
-  OH
-  OH-T (proposed)
-  OL
-  PT
-  SC
-  SC-SM
-  SM
-  SP
-  SP-SC
-  SP-SM
-  SW
-  SW-SC
-  SW-SM
-  Not rated or not available






Water Features

 Streams and Canals

Transportation

 Rails

MAP INFORMATION

-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads
- Background**
-  Aerial Photography

The soil surveys that comprise your AOI were mapped at 1:24,000.

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Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

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Survey Area Data: Version 19, Sep 11, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 31, 2019—Mar 11, 2022

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Table—Unified Soil Classification (Surface)

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
PpC	Pleasanton gravelly loam, 2 to 9 percent slopes	SC	0.4	2.4%
PpD2	Pleasanton gravelly loam, 9 to 15 percent slopes, eroded	SC	4.4	26.7%
TeF	Terrace escarpments		3.5	21.3%
VaE2	Vallecitos rocky loam, 15 to 30 percent slopes, eroded	CL	8.2	49.6%
Totals for Area of Interest			16.5	100.0%

Rating Options—Unified Soil Classification (Surface)

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Lower

Layer Options (Horizon Aggregation Method): Surface Layer (Not applicable)

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