

RAFAEL AVILA

APN#82508026

SAN MARTIN , CA 95046

40' X 60' X 14' (14'-4 1/2" EAVE HT.)

DESIGN NOTES

- ALL CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH CBC 2019, IBC 2018, ASCE7-16, OSHA, AISC 360, AISI 100, AWS D1.3 CODES AND ALL APPLICABLE LOCAL REQUIREMENTS.
- BASE CONNECTIONS SHALL BE PROVIDED AS SHOWN ON FOUNDATION DETAILS SHEET.
- ALL MATERIALS IDENTIFIED BY MANUFACTURER NAME MAY BE SUBSTITUTED WITH MATERIAL EQUAL OR EXCEEDING ORIGINAL.
- ALL SHOP CONNECTIONS SHALL BE WELDED CONNECTIONS. NO FIELD WELDING IS REQUIRED.
- ALL FIELD CONNECTIONS SHALL BE #12 (1/4"X1") (ESR-2196) OR APPROVED EQUAL.
- STEEL SHEATHING SHALL BE 29GA. "UES ER 550" CORRUGATED GALV. OR PAINTED STEEL - MAIN RIB HT. 3/4" (FY=80KSI) OR EQ.
- ALL STRUCTURAL LIGHT GAUGE TUBING AND CHANNELS SHALL BE GRADE 50 GALV. STEEL (FY = 50 KSI, FU = 65 KSI) PER RELEVANT ASTM.
- ALL HOT ROLLED STEEL SHAPES (BASE ANGLES), IN OPEN STRUCTURES, OR ONES EXPOSED TO THE ELEMENTS, SHALL HAVE ONE COAT OF RUST PROOF PRIMER FOLLOWED BY TWO COATS OF PAINT.
- STRUCTURAL TUBE TS 2 1/2" X2 1/2" - 14GA. IS EQUIVALENT TO TS 2 1/4" X 2 1/4" - 12GA AND EITHER ONE MAY BE USED IN LIEU OF THE OTHER.
- 12GA IS DEFINED AS 0.109" THICKNESS. 14GA IS DEFINED AS 0.083" THICKNESS. 26GA IS DEFINED AS 0.019" THICKNESS. 29GA IS DEFINED AS 0.015" THICKNESS.
- GYPSUM BOARD OR DRYWALL FINISH OR ANY BRITTLE BASE MATERIAL IS NOT CONSIDERED OR ACCOUNTED FOR ON THE DESIGN CRITERIA OF THIS STRUCTURE, U.N.O.

DESIGN CRITERIA

PREVAILING CODE:	CBC 2019 (IBC 2018)
USE GROUP:	S (STORAGE)
CONSTRUCTION TYPE:	II - B
RISK CATEGORY:	II
BUILDING FOOTAGE:	2400 SQ.FT
1. DEAD LOAD (D)	D = 2.0 PSF
2. ROOF LIVE LOAD (Lr)	Lr = 20 PSF
3. SNOW LOAD (S)	
GROUND SNOW LOAD	Pg = 0 PSF
IMPORTANCE FACTOR	Is = 1.00
THERMAL FACTOR	Ct = 1.2
EXPOSURE FACTOR	Ce = 1.0
ROOF SLOPE FACTOR	Cs = 1.0
FLAT ROOF SNOW LOAD	Pf = 0 PSF
SLOPED ROOF SNOW LOAD	Ps = 0 PSF
4. WIND LOAD (W)	
DESIGN WIND SPEED	Vult = 110 MPH
EXPOSURE	C
5. SEISMIC LOAD (E)	
Ss / S1	1.562/0.6
SDs / SD1	1.25/NULL
DESIGN CATEGORY	D
SITE CLASS	D (DEFAULT)
IMPORTANCE FACTOR	Ie = 1.00
SEISMIC BASE SHEAR	Vs = 7382.52 LBS
L.F.R.S in X dir	O.C.B.F
L.F.R.S in Z dir	O.C.B.F
SEISMIC COEFFICIENT	Cs = 0.384
RESPONSE MOD.FACTOR	R = 3.25

LOAD COMBINATIONS:

- D + (Lr OR S)
- D + (0.6W OR ±0.7E)
- D + 0.75 (0.6W OR ±0.7E) + 0.75 (Lr OR S)
- 0.6D + (0.6W OR ±0.7E)

SCOPE OF WORK

- THIS PLAN SET IS LIMITED IN SCOPE TO THE FIELD OF STRUC. ENGINEERING PER THE SPECIFIED DESIGN LOADS AND APPLICABLE BUILDING CODES. ANY DISCREPANCIES IN DESIGN LOADS SHALL BE BROUGHT TO THE ATTN. OF THE ENGINEER OF RECORD.
- ALL WORKS RELATED BUT NOT LIMITED TO ARCH. / SITE / HVAC / ELEC. / MECH. / ZONING AND EXIST. FOUNDATIONS, ARE BEYOND THE SCOPE OF THIS PLANS SET, AND MUST BE ADDRESSED BY RESPONSIBLE PROFESSIONALS IN CHARGE.

DRAWING INDEX

- COVER SHEET
- ELEVATIONS
- 3A / 3B FOUNDATION PLAN & DETAILS
- 4A / 4B FLOOR PLAN & DETAILS
- 5A / 5B FRAME SECTION & DETAILS
- 6A / 6B SIDE WALL FRAMING & DETAILS
- 7A / 7B END WALL FRAMING & DETAILS

SPECIAL INSPECTIONS

- PERIODIC INSPECTION OF POST INSTALLED CONCRETE ANCHORS PER ICC-ESR OR BUILDING OFFICIAL REQUIREMENTS

NO ADDITIONAL SPECIAL INSPECTIONS ARE REQUIRED FOR THIS STRUCTURE UNLESS EXPLICITLY REQUIRED BY THE BUILDING OFFICIAL.

REVISIONS

MARK	COMMENTS	DATE
-	ISSUED FOR PERMIT & CONST.	

2.0.115.0

THESE DRAWINGS HAVE BEEN PRODUCED USING A & A SOFTWARE DEVELOPMENT'S MB DESIGN SOFTWARE. THE DESIGNS SHOWN IN THESE DRAWINGS NEED TO BE VERIFIED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER. ANY REVISIONS TO BE MADE TO THESE DRAWINGS MUST BE MADE BY THE ENGINEER OF RECORD. FOR INFORMATION REGARDING THE SOFTWARE CONTACT A & A SOFTWARE DEVELOPMENT AT 800.856.8568/555.5555 PLAZA, TOLEDO, OH 43063 OR AT 714.929.2193

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OWNER: RAFAEL AVILA

LOCATION: APN#82508026
SAN MARTIN , CA 95046

COVER SHEET

DRAWING NO.: MBD1C02869C

DRAWN BY: A.F

DATE: 22-JUN-2021

DRAWING NO.: MBD1C02869C



DRAWN BY: A.F

DATE: 22-JUN-2021

PROJECT NO.: 201-21-1998

CHECKED BY:


SHEET NO.: 1 OF 7

PREPARED FOR:

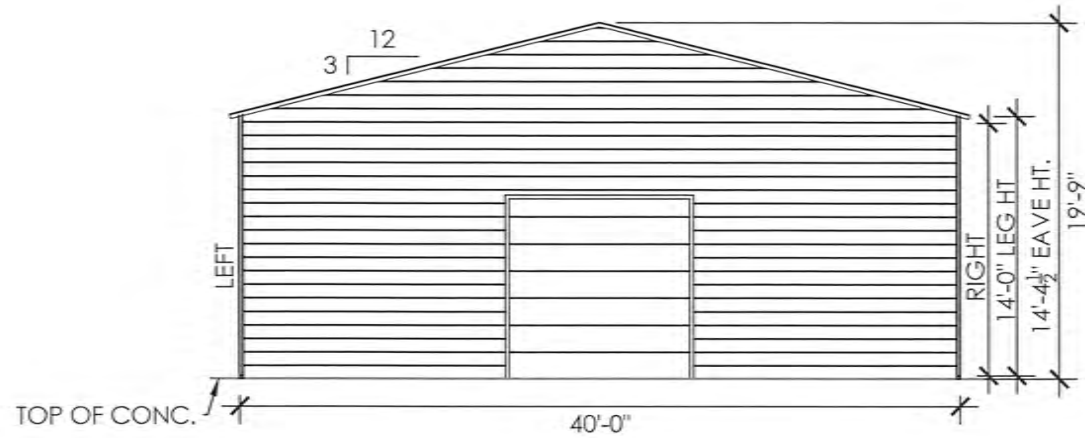
Interstate Steel Structures

385 W. Esplanade Ave
San Jacinto, CA 92583
Tel: 1-888-654-2435
Fax: 951-654-2008



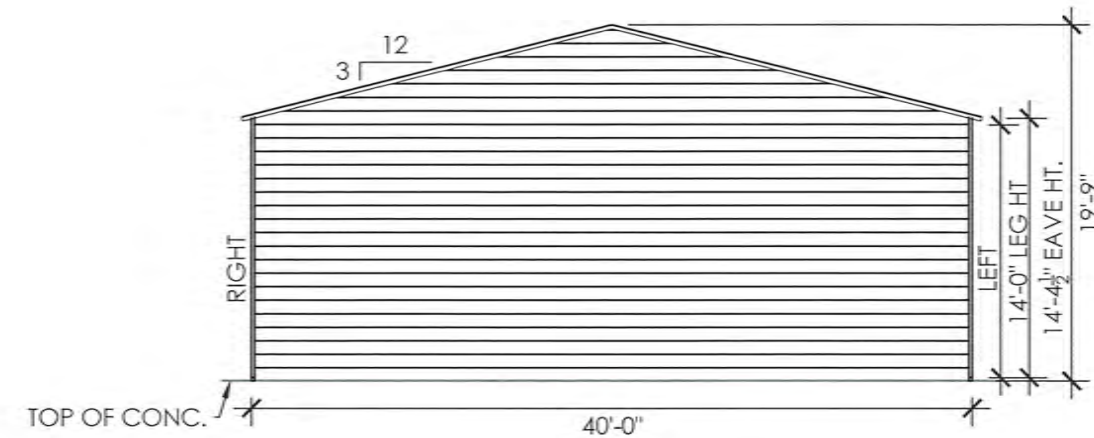
EXPIRES: 12/31/2022

DATE SIGNED: JUNE 22 2021



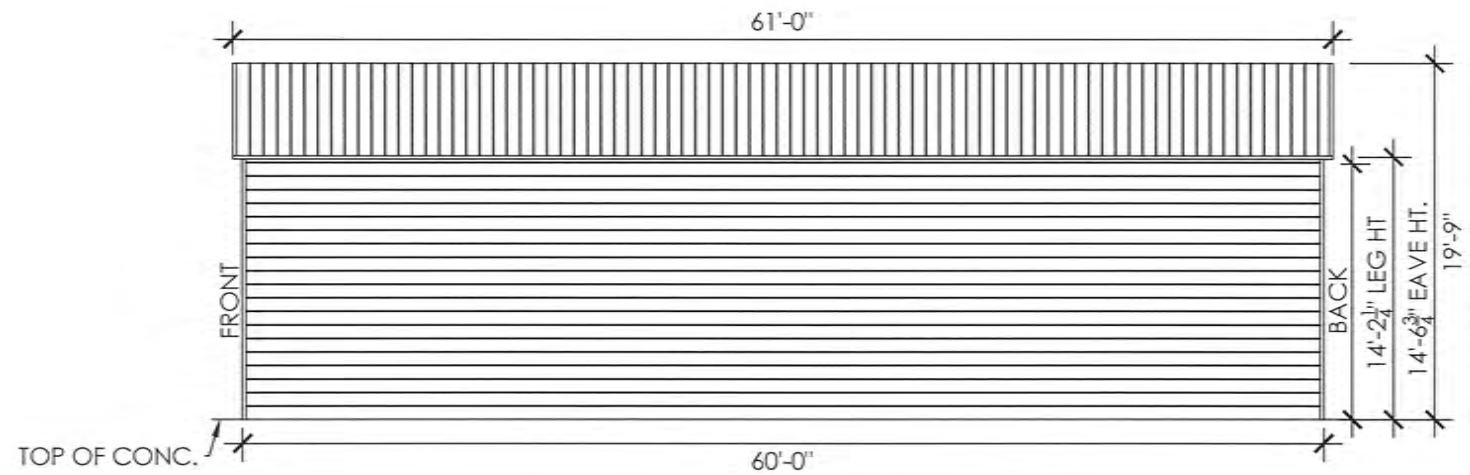
FRONT END WALL ELEVATION

SCALE: 3/32" : 1'



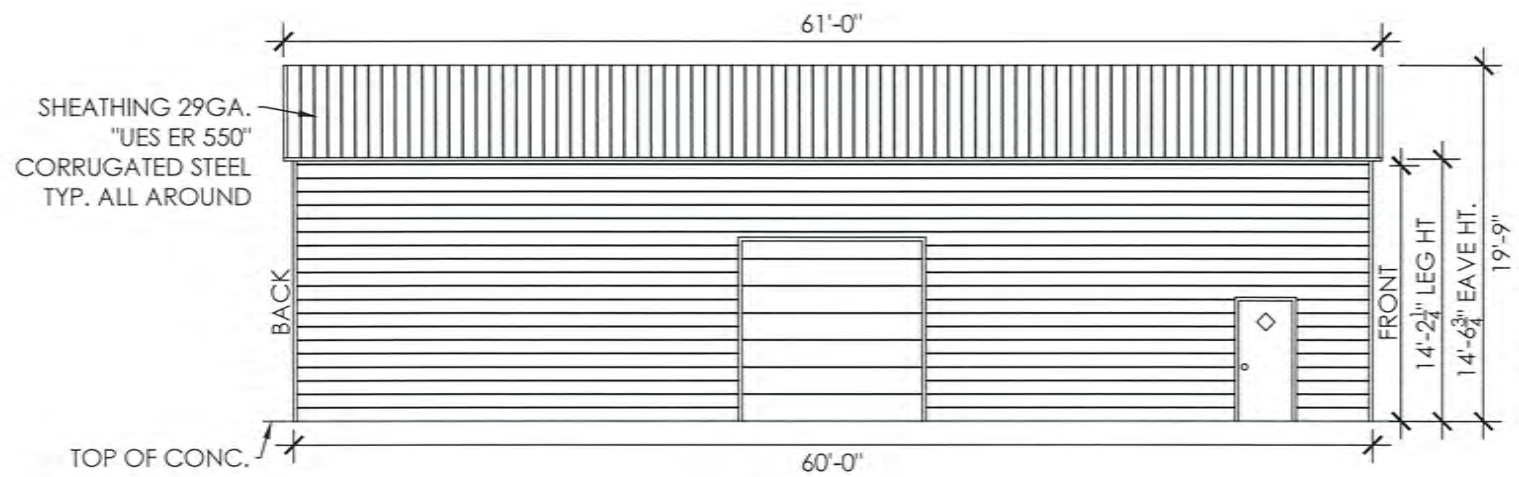
BACK END WALL ELEVATION

SCALE: 3/32" : 1'



RIGHT SIDE WALL ELEVATION

SCALE: 3/32" : 1'



LEFT SIDE WALL ELEVATION

SCALE: 3/32" : 1'

SHEATHING 29GA.
"UES ER 550"
CORRUGATED STEEL
TYP. ALL AROUND

OWNER:	RAFAEL AVILA	LOCATION:	APN#82508026 SAN MARTIN, CA 95046
SHEET TITLE:	ELEVATIONS		
DRAWING NO.:	MBD1C02869C	PROJECT NO.:	201-21-1998
DRAWN BY:	A.F	CHECKED BY:	
DATE:	22-JUN-2021	SHEET NO.:	2 OF 7

PREPARED FOR:

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SEAL:

EXPIRES: 12/31/2022

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MEMBER PROPERTIES	
SIDE WALL COLUMN POST	(2) 2 1/4" SQ. X 12GA TUBES W/ 6" VERT. SPACER @ 18" C/C
END WALL COLUMN POST	(2) 2 1/4" SQ. X 12GA TUBES STITCH WELDED
CORNER POST	2 1/4" SQ. X 12GA TUBE
ROOF MEMBER	(2) 2 1/4" SQ. X 12GA TUBES W/ 6" HORZ. SPACER @ 24" C/C
BASE RAIL	2 1/4" SQ. X 12GA TUBE
PEAK BRACE	2 1/4" SQ. X 12GA TUBE
KNEE BRACE	(2) 4" X 1" X 14GA HAT CHANNEL
CONNECTOR SLEEVE	2" SQ. X 12GA TUBE
PURLINS	4" X 1" X 14GA HAT CHANNEL
WALK-IN DOOR	2 1/4" SQ. X 12GA TUBE
ALL BRACE	2 1/4" SQ. X 14GA TUBE
LATERAL BRACE	2 1/4" SQ. X 12GA TUBE
DBL DOOR POST / HEADER	(2) 2 1/4" SQ. X 12GA TUBES W/ 6" HORZ. SPACER @ 24" C/C

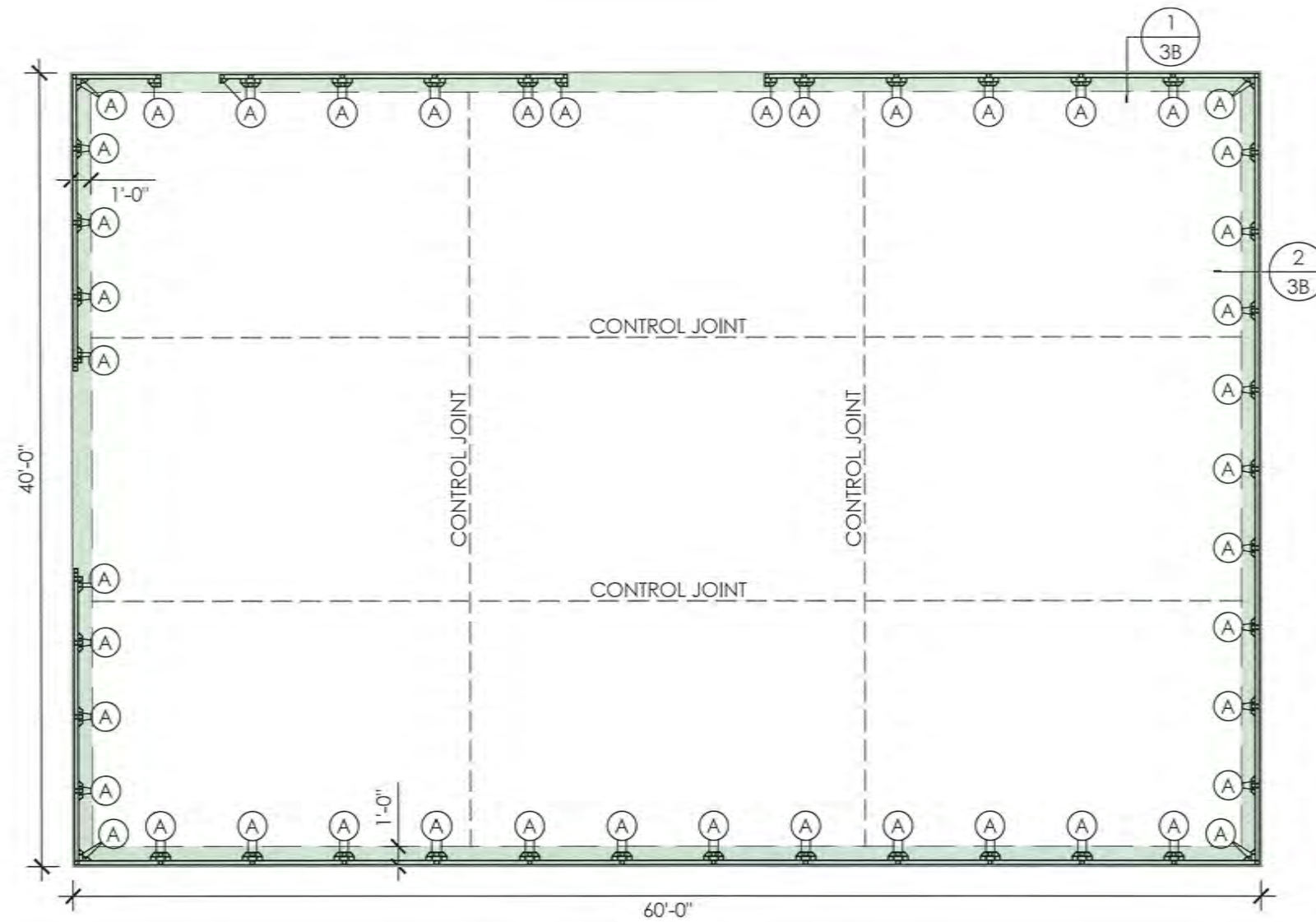
CONCRETE SLAB	
ANCHOR 'A'	5/8" X 7" LG. POWER-STUD+ SD1 EXPANSION ANCHOR (PER ESR 2818)

FOUNDATION NOTES:

1. MIN. SLAB SIZE SHALL BE 40'-0" X 60'-0" TO ALLOW A MIN. OF 4" ANCHOR-TO-CONCRETE EDGE DISTANCE.
2. CONTROL JOINTS SHALL BE PLACED SO AS TO LIMIT MAX. SLAB SPANS TO 20' IN EACH DIRECTION.
3. CONCRETE ANCHORS SHALL BE LOCATED AS SHOWN ON THE FOUNDATION PLAN WITH A MINIMUM OF (2) ANCHOR PER POST.
4. DEPTH OF SLAB TURN DOWN FOOTING SHALL BE GREATER THAN FROST DEPTH SPECIFIED PER LOCAL CODE.
5. ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.
6. CONCRETE STRENGTH TO BE A MIN OF 2500 PSI @ 28 DAYS.

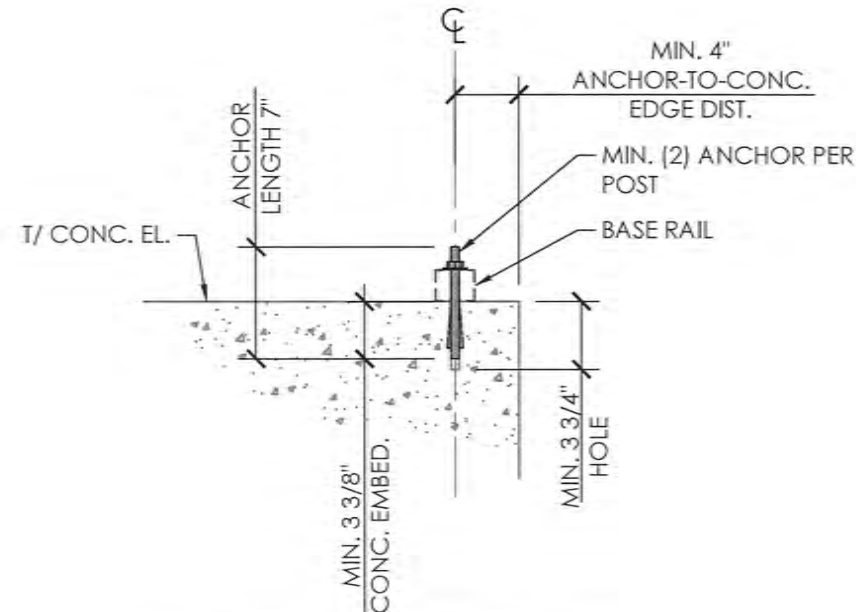
ANCHORAGE NOTES:

1. ANCHOR INSTALLATION REQUIREMENTS:
 - MIN. ANCHOR EDGE DISTANCE: 4.00"
 - MIN. ANCHOR HOLE DEPTH: 3.75"
 - MIN. CONCRETE EMBEDMENT DEPTH: 3.375"
 - MIN. EFFECTIVE EMBEDMENT: 2.75"
 - MIN. SPACING BETWEEN (2) ANCHORS: 5.00"
2. ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.
3. ALL ANCHORS TO BE A307 EQUIVALENT OR BETTER. ANCHORS TO BE INSTALLED PER MANUFACTURER'S REQ.
4. CONCRETE STRENGTH TO BE A MIN OF 2500 PSI @ 28 DAYS.



FOUNDATION PLAN

SCALE: 1/8" : 1'



ANCHORAGE DETAIL

SCALE: 1" : 1'

APN#82508026
SAN MARTIN, CA 95046

LOCATION:

OWNER:
RAFAEL AVILA

FOUNDATION PLAN:
CONCRETE SLAB

PROJECT NO.:

201-21-1998

DRAWING NO.:

MBD1C02869C

CHECKED BY:

A.F

SHEET NO.:

22-JUN-2021

DATE:

3A OF 7

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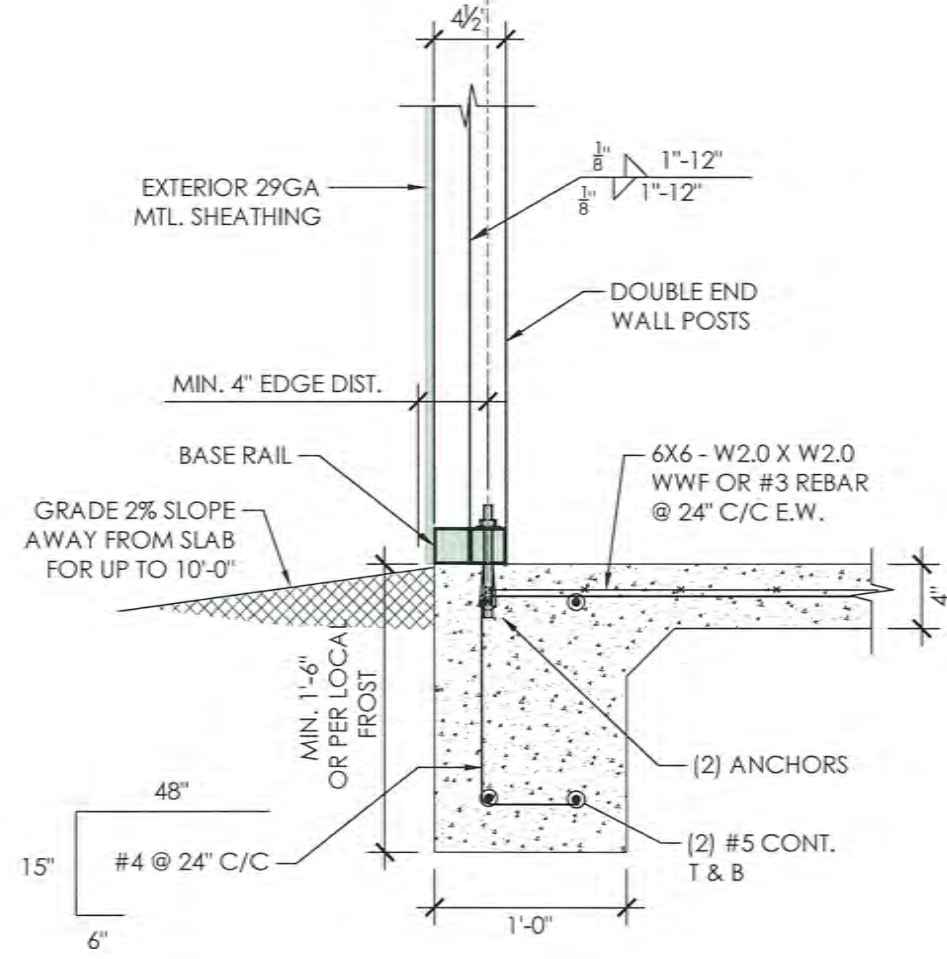
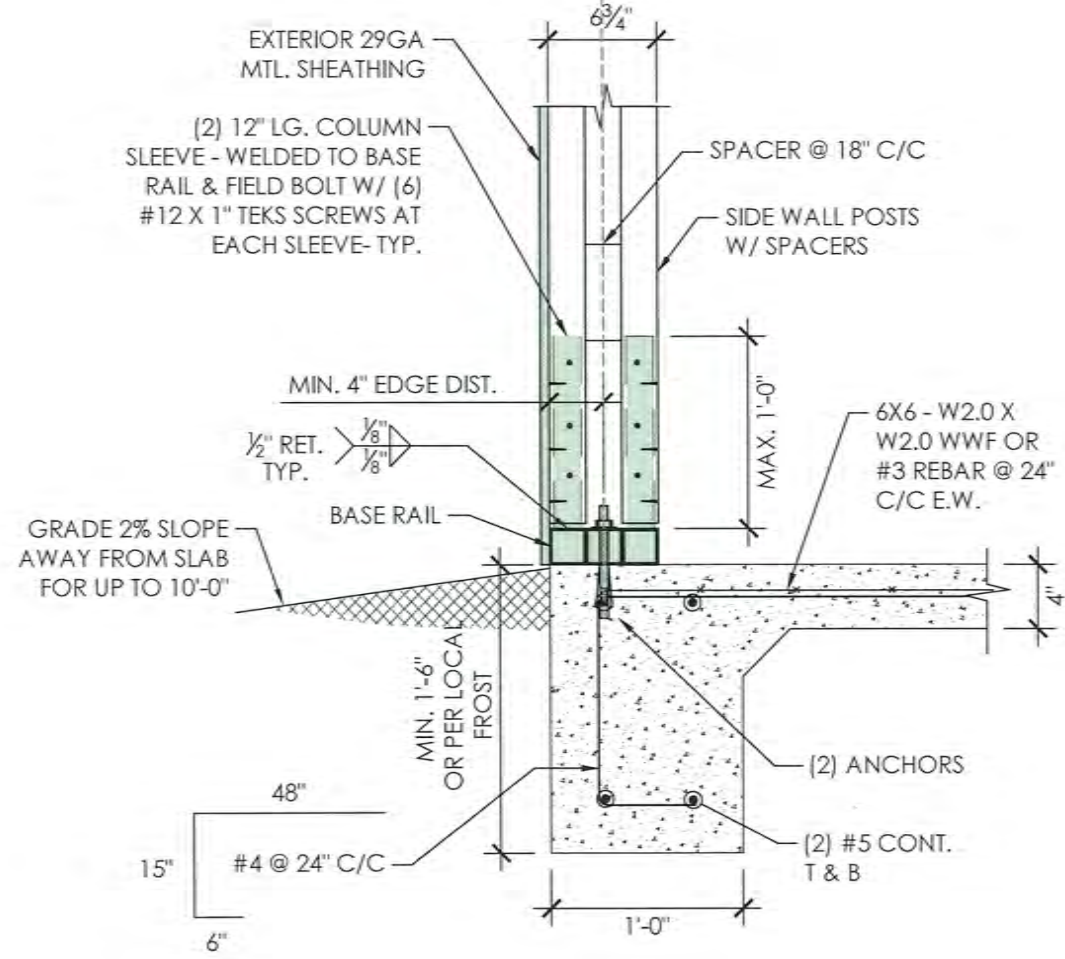
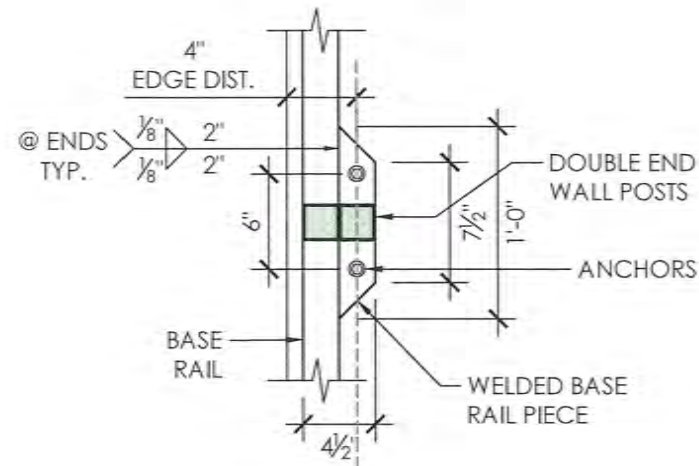
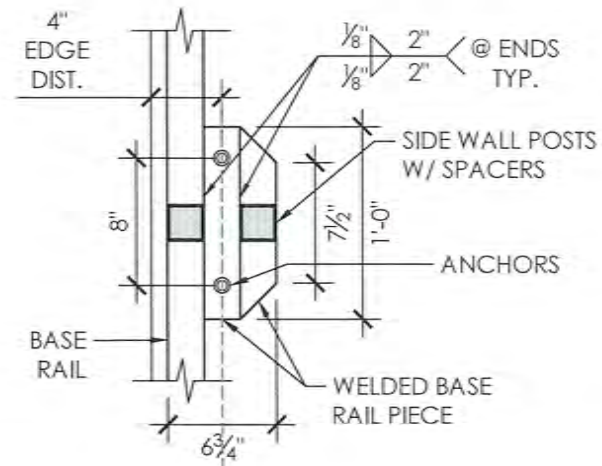
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FOUNDATION @ SIDE WALL
SCALE: 1" : 1'

FOUNDATION @ END WALL
SCALE: 1" : 1'

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LOCATION:

OWNER: RAFAEL AVILA

FOUNDATION DETAILS:
CONCRETE SLAB

PROJECT NO.: 201-21-1998

CHECKED BY:

DRAWING NO.: MBD1C02869C

DRAWN BY: A.F

DATE: 22-JUN-2021

SHEET NO.: 3B OF 7

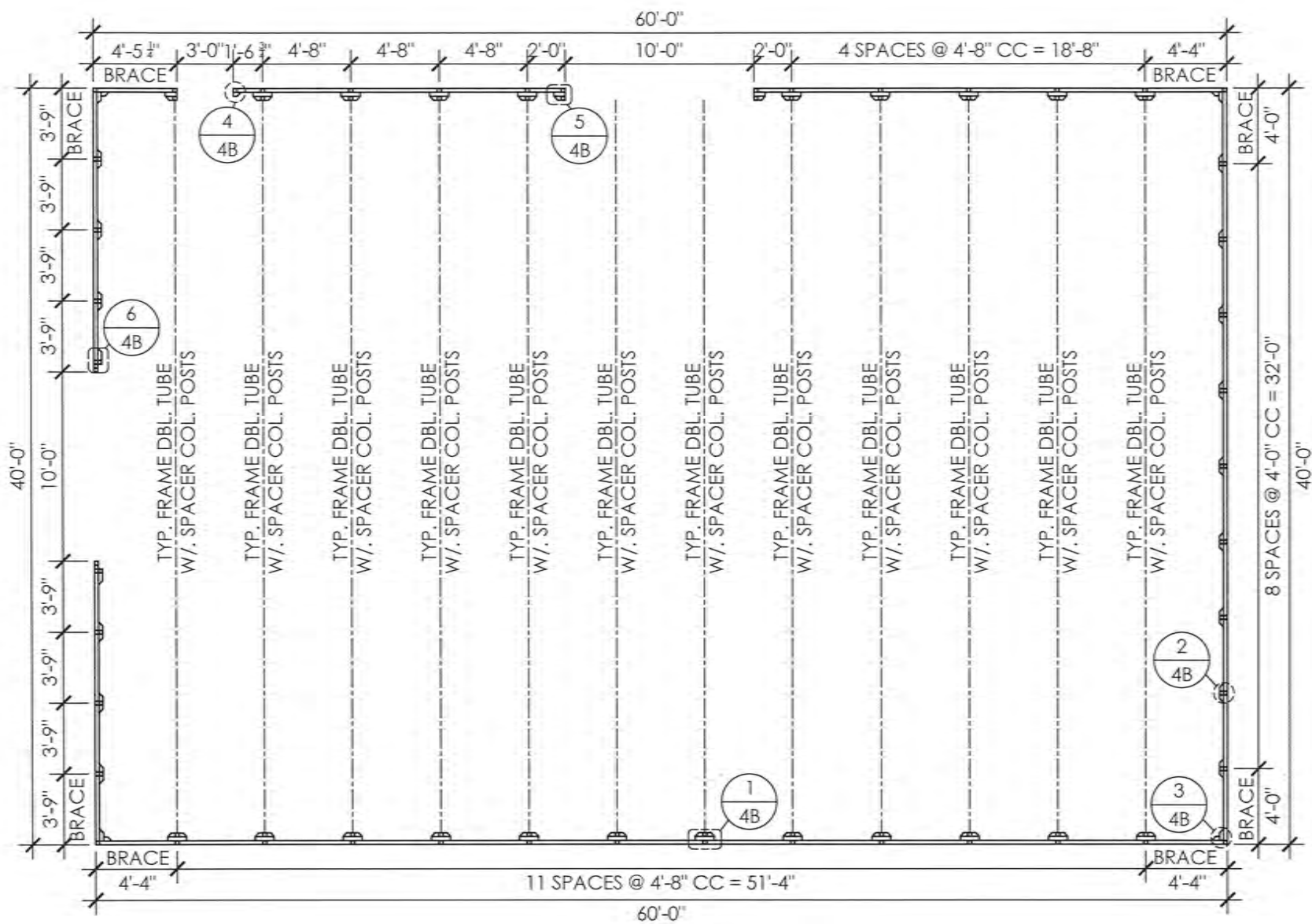
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FLOOR PLAN

SCALE: 1/8" : 1'

NOTE: SEE SHEET 3A, 3B & 4B FOR ANCHOR TYPE & MEMBER PROPERTIES

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LOCATION:

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SAN MARTIN, CA 95046

SHEET TITLE:

FLOOR PLAN

DRAWING NO.:

MBD1C02869C

PROJECT NO.:

201-21-1998

DRAWN BY:

A.F

CHECKED BY:

DATE:

22-JUN-2021

SHEET NO.:

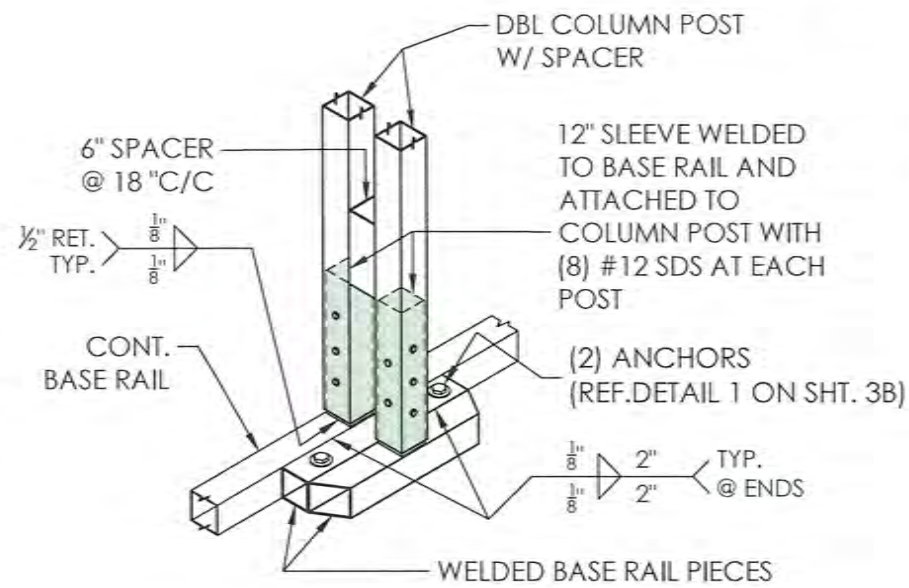
4A OF 7

SEAL:

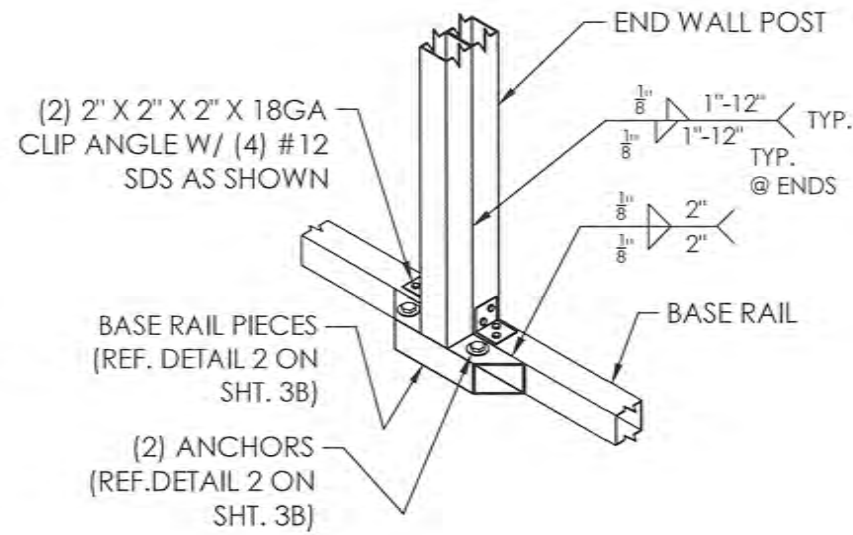


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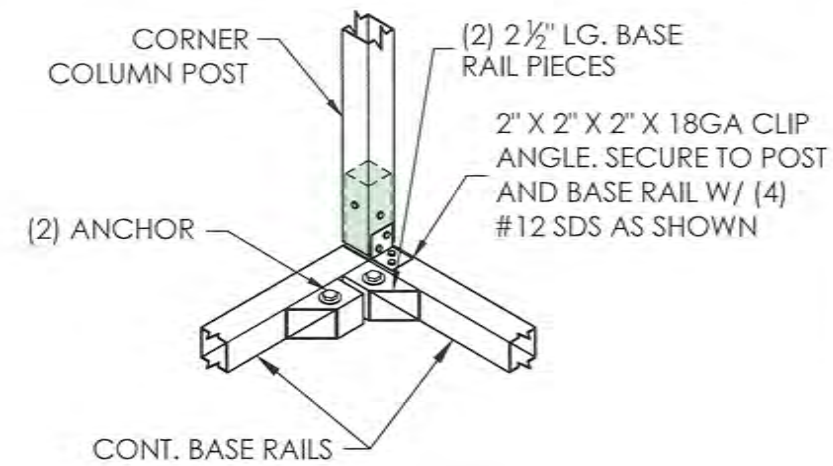
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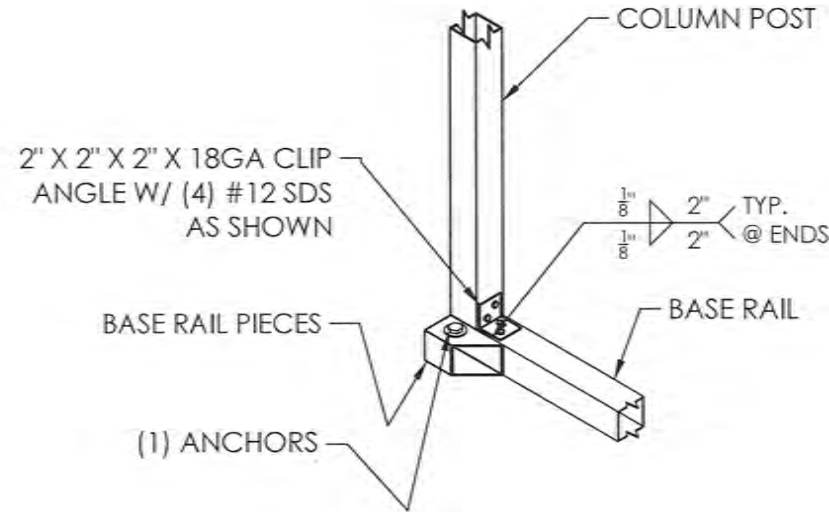
SIDE WALL
COLUMN-BASE DETAIL 1
SCALE: 3/4" : 1"



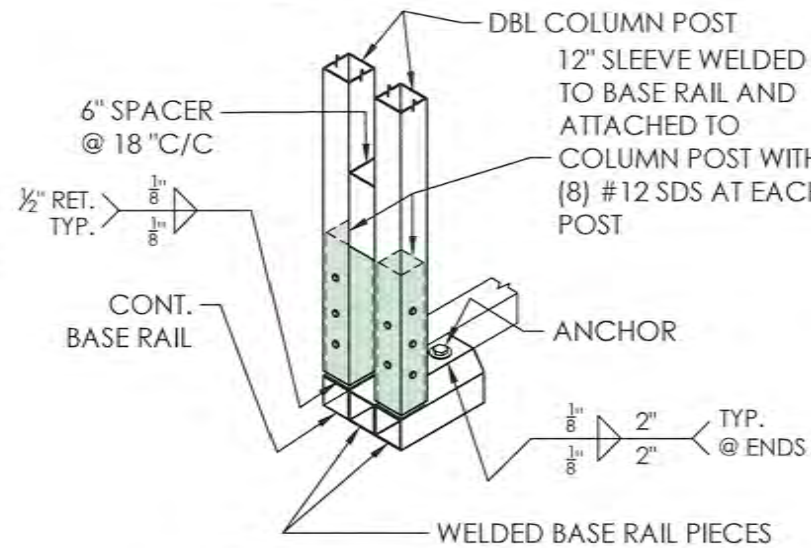
END WALL
COLUMN-BASE DETAIL 2
SCALE: 3/4" : 1"



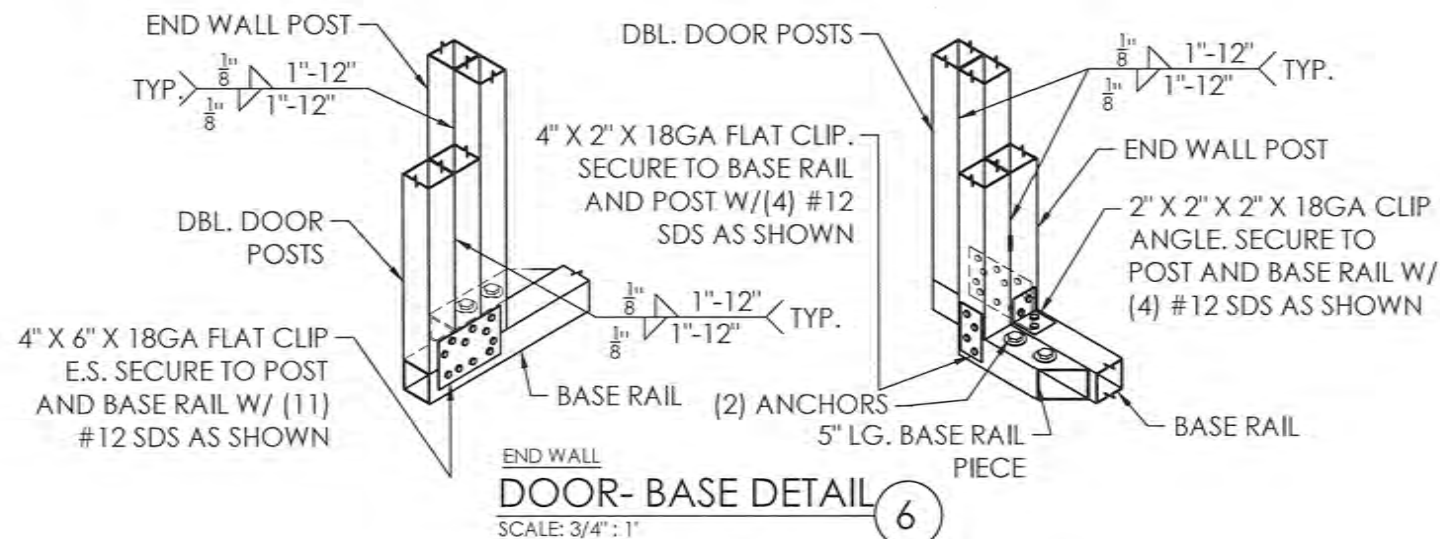
CORNER POST DETAIL 3
SCALE: 3/4" : 1"



COLUMN BASE DETAIL 4
SCALE: 3/4" : 1"



SIDE WALL
OPENING BASE DETAIL 5
SCALE: 3/4" : 1"



OWNER:	RAFAEL AVILA	LOCATION:	APN#82508026 SAN MARTIN, CA 95046
SHEET TITLE:	FLOOR PLAN DETAILS		
DRAWING NO.:	MBD1C02869C	PROJECT NO.:	201-21-1998
DRAWN BY:	A.F	CHECKED BY:	
DATE:	22-JUN-2021	SHEET NO.:	4B OF 7

PREPARED FOR:

Interstate Steel Structures

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SEAL:

REGISTERED PROFESSIONAL ENGINEER
CIVIL
OMAR A. ABU-YASEIN
C73389
STATE OF CALIFORNIA

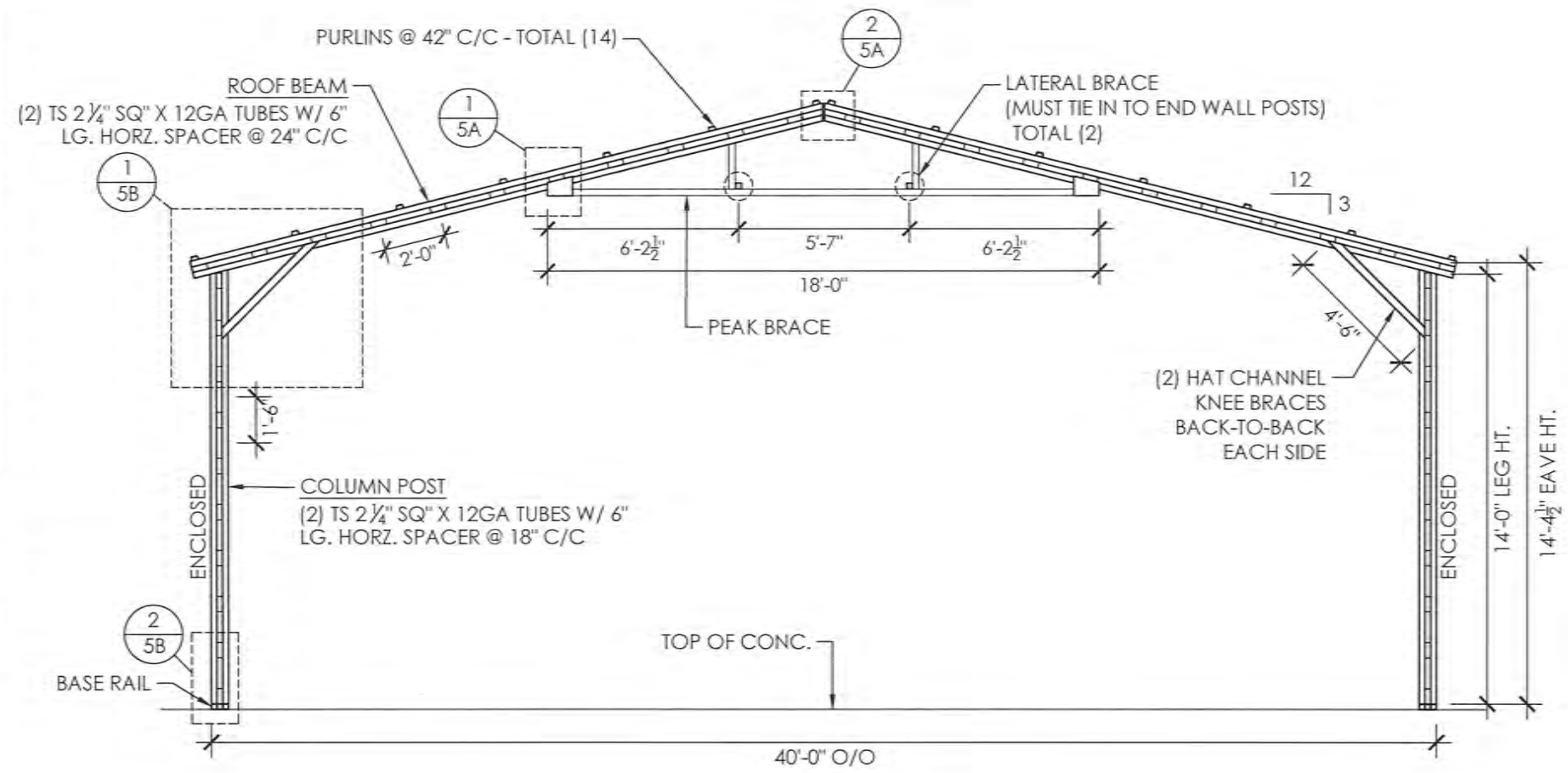
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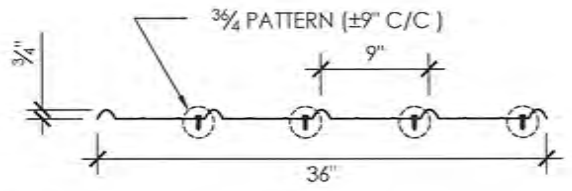
MEMBER PROPERTIES	
SIDE WALL COLUMN POST	(2) 2 1/4" SQ. X 12GA TUBES W/ 6" VERT. SPACER @ 18" C/C
END WALL COLUMN POST	(2) 2 1/4" SQ. X 12GA TUBES STITCH WELDED
CORNER POST	2 1/4" SQ. X 12GA TUBE
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LATERAL BRACE	2 1/4" SQ. X 12GA TUBE
DBL DOOR POST / HEADER	(2) 2 1/4" SQ. X 12GA TUBES W/ 6" HORZ. SPACER @ 24" C/C

SHEATHING FASTENER SCHEDULE				
LOCATION	CORNER PANEL	SIDE LAPS	EDGE LAPS	ELSEWHERE
SPACING	9" CC	MIN. 1	4" CC	9" CC

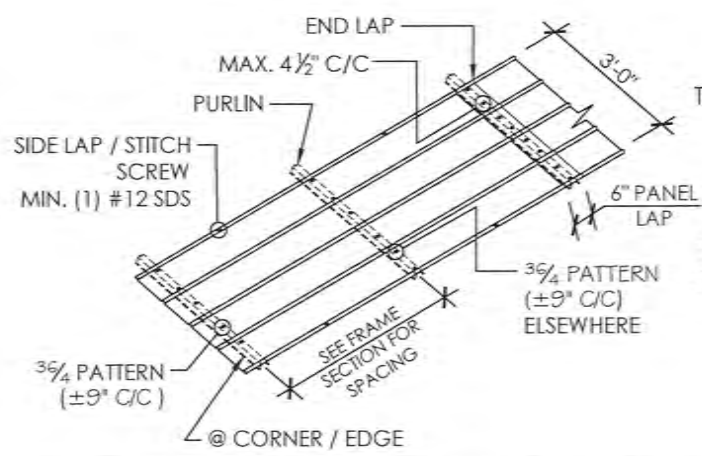
FASTENER TYPE: # 12x1" SELF-DRILL SCREWS (ESR-2196) W/ NEOPRENE/STEEL WASHER



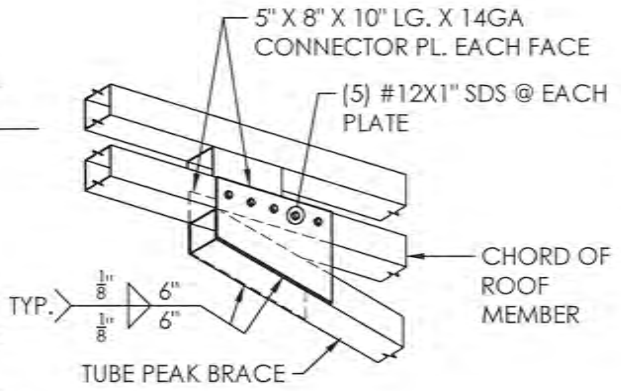
FRAME SECTION
SCALE: 3/16" : 1'



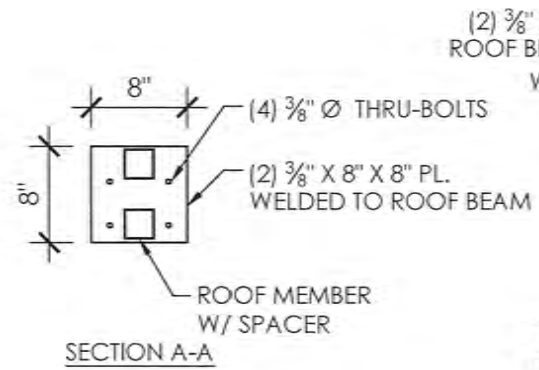
29GA. - 3/4" RIB - CORRUGATED SHEET



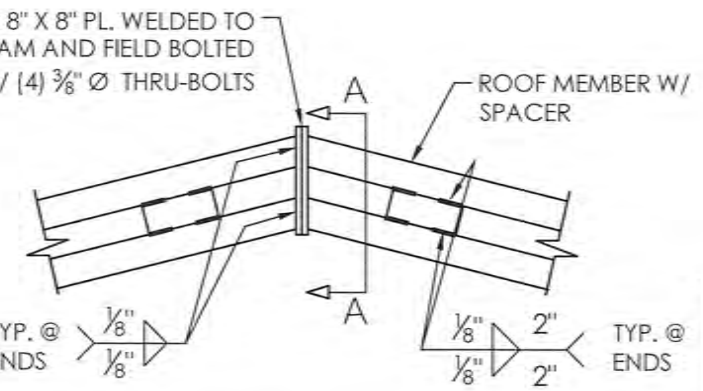
SHEATHING FASTENER PATTERN



PEAK BRACE PL. DETAIL 1
SCALE: 3/4" : 1'



SECTION A-A



PEAK BRACE PL. DETAIL 2
SCALE: 3/4" : 1'

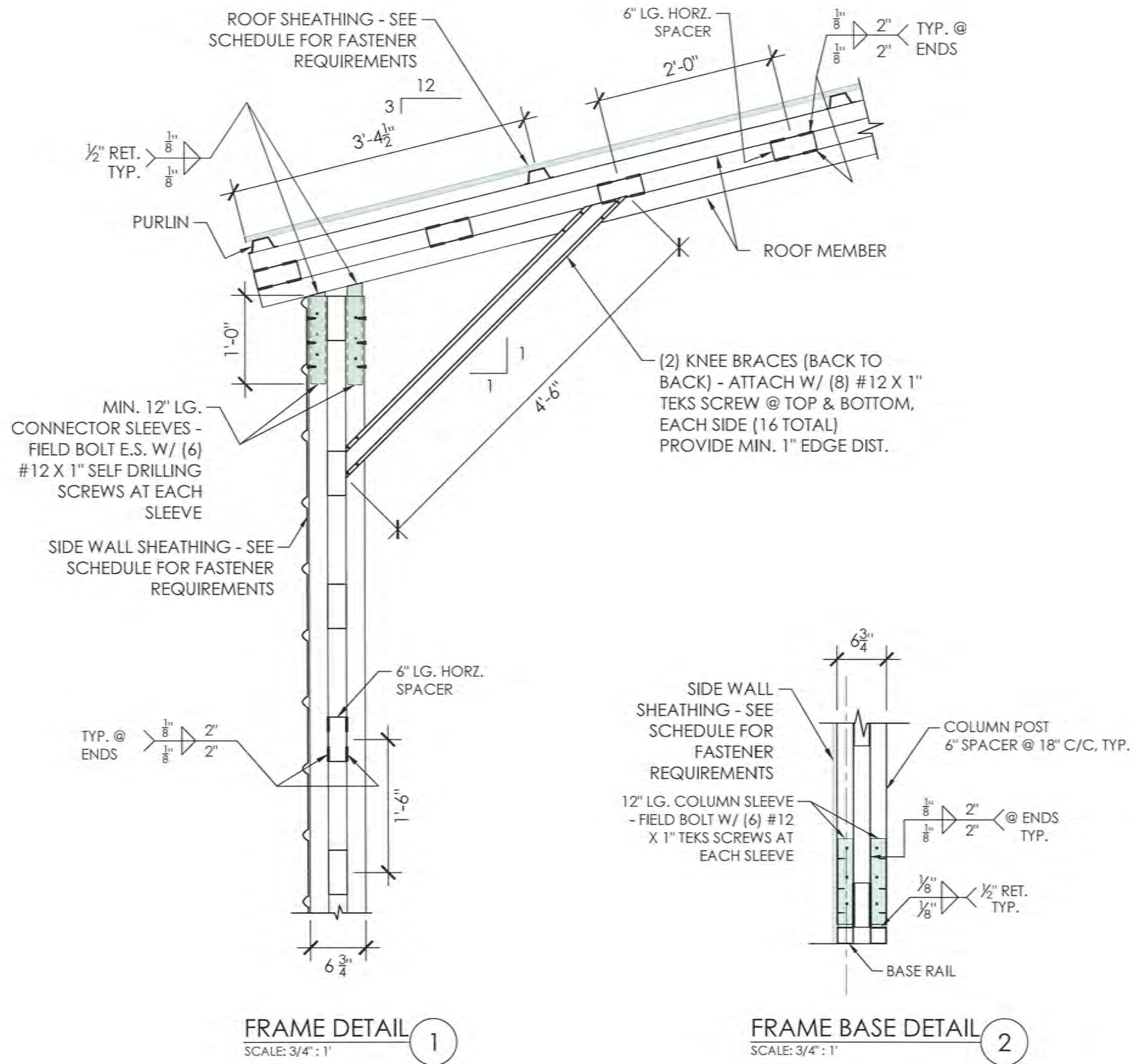
OWNER:	RAFAEL AVILA	LOCATION:	APN#82508026 SAN MARTIN, CA 95046
SHEET TITLE:	FRAME SECTION & DETAILS	DRAWING NO.:	MBD1C02869C
PROJECT NO.:	201-21-1998	CHECKED BY:	A.F
DRAWN BY:	A.F	DATE:	22-JUN-2021
SHEET NO.:	5A OF 7		

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SHEET TITLE:	FRAME SECTION DETAILS		
DRAWING NO.:	MBD1C02869C	PROJECT NO.:	201-21-1998
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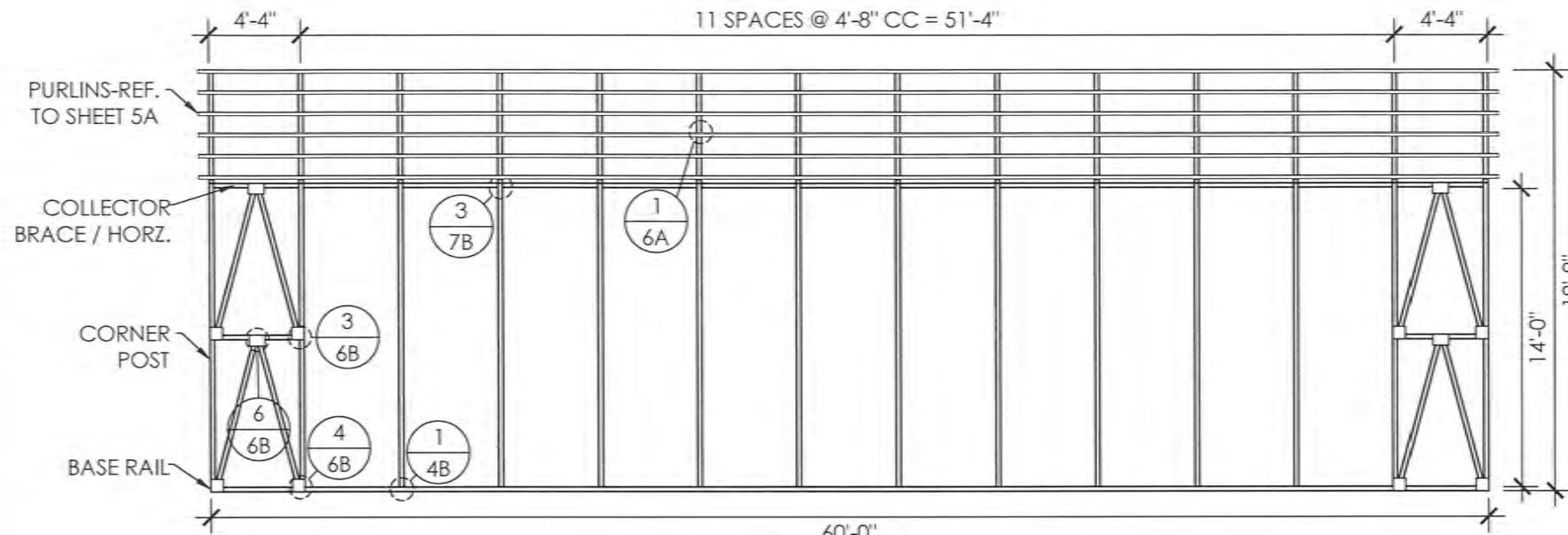
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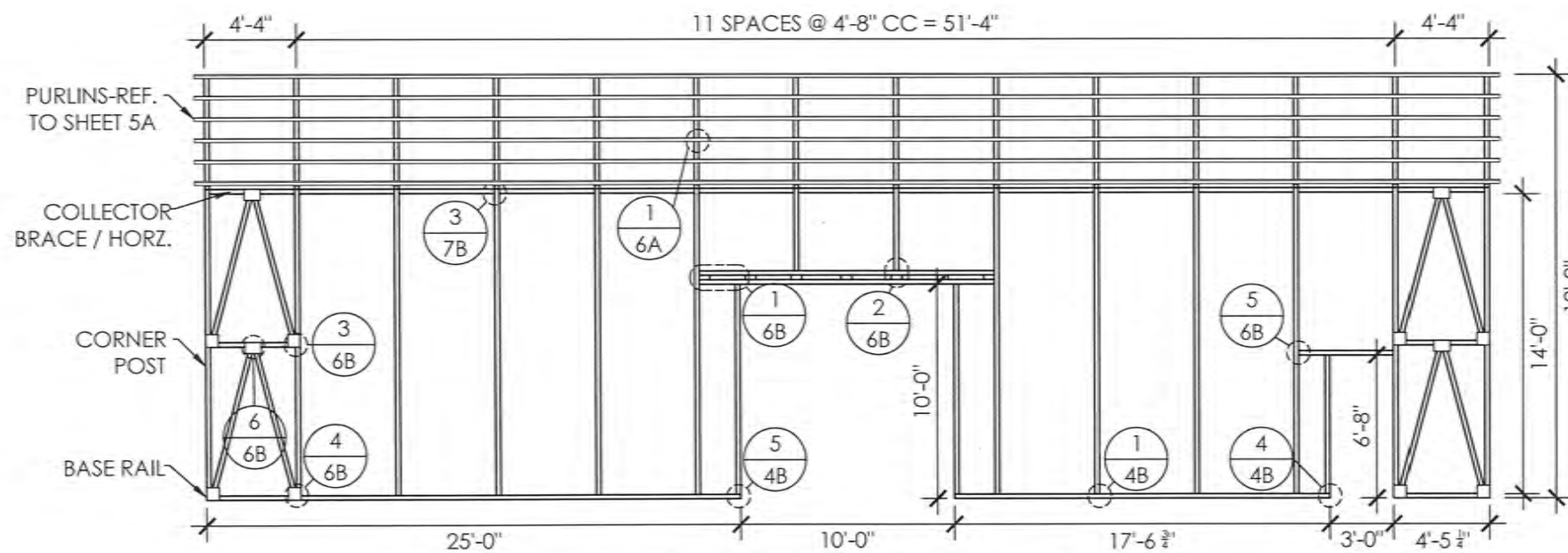
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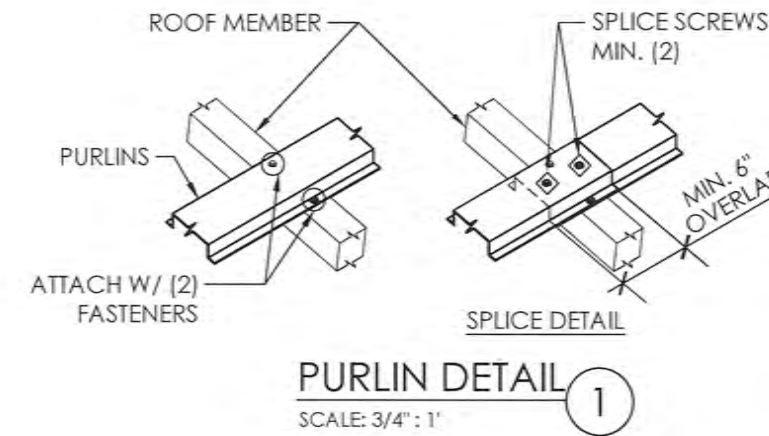


60'-0"
RIGHT SIDE WALL FRAMING
SCALE: 1/8" : 1'



LEFT SIDE WALL FRAMING
SCALE: 1/8" : 1'

MEMBER PROPERTIES	
SIDE WALL COLUMN POST	(2) 2 1/4" SQ. X 12GA TUBES W/ 6" VERT. SPACER @ 18" C/C
END WALL COLUMN POST	(2) 2 1/4" SQ. X 12GA TUBES STITCH WELDED
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DBL DOOR POST / HEADER	(2) 2 1/4" SQ. X 12GA TUBES W/ 6" HORZ. SPACER @ 24" C/C



PURLIN DETAIL 1
SCALE: 3/4" : 1'

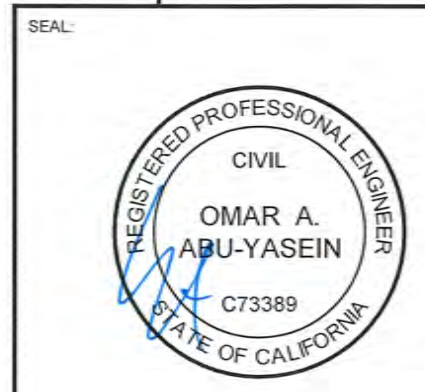
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OWNER: RAFAEL AVILA
LOCATION: SAN MARTIN, CA 95046

SIDE WALL FRAMING

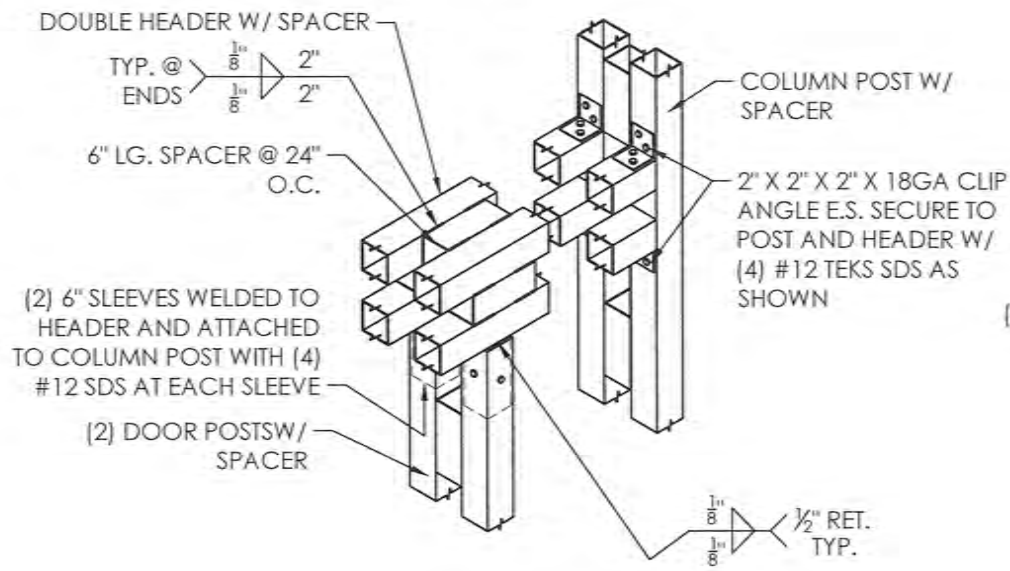
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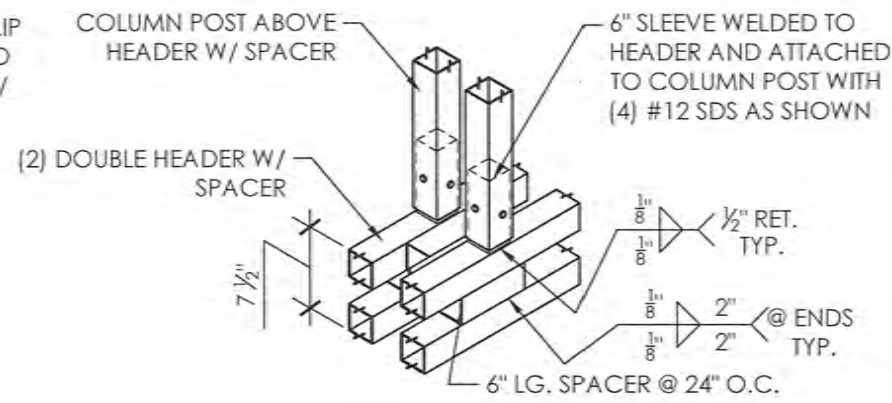


EXPIRES: 12/31/2022

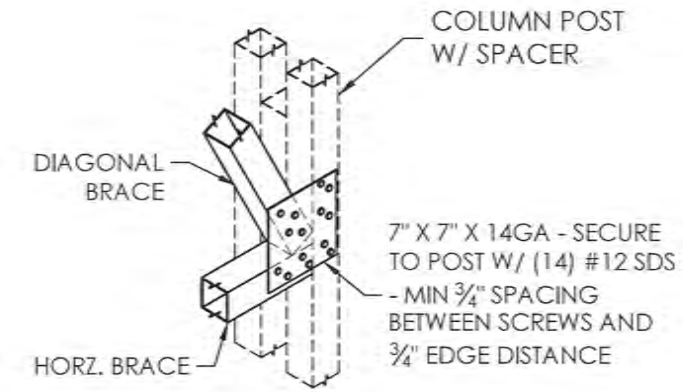
DATE SIGNED: JUNE 22 2021



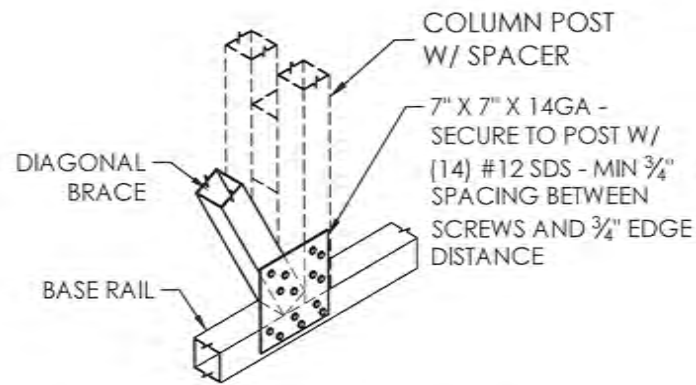
DOOR HEADER DETAIL ①
SCALE: 3/4" : 1'



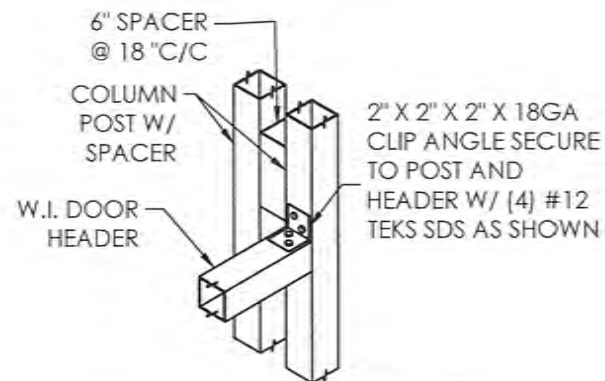
ABOVE HEADER DETAIL ②
SCALE: 3/4" : 1'



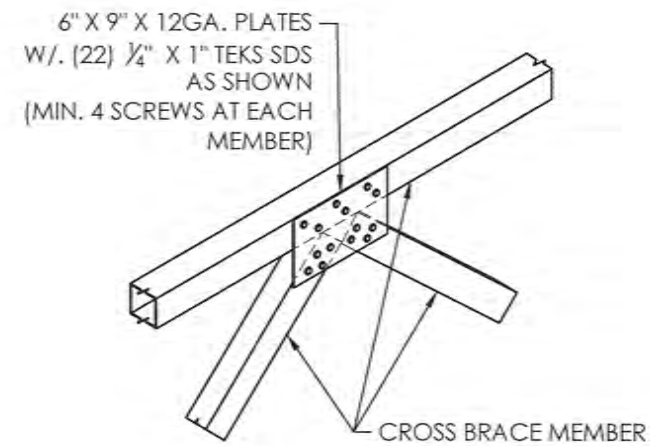
LATTICE BRACE DETAIL ③
SCALE: 3/4" : 1'



LATTICE BRACE DETAIL ④
SCALE: 3/4" : 1'



W.I. DOOR DETAIL ⑤
SCALE: 3/4" : 1'



LATTICE BRACE DETAIL ⑥
SCALE: 3/4" : 1'

OWNER:	RAFAEL AVILA	LOCATION:	APN#82508026 SAN MARTIN, CA 95046
SHEET TITLE:	SIDE WALL FRAMING DETAILS		
DRAWING NO.:	MBD1C02869C	PROJECT NO.:	201-21-1998
DRAWN BY:	A.F.	CHECKED BY:	
DATE:	22-JUN-2021	SHEET NO.:	6B OF 7

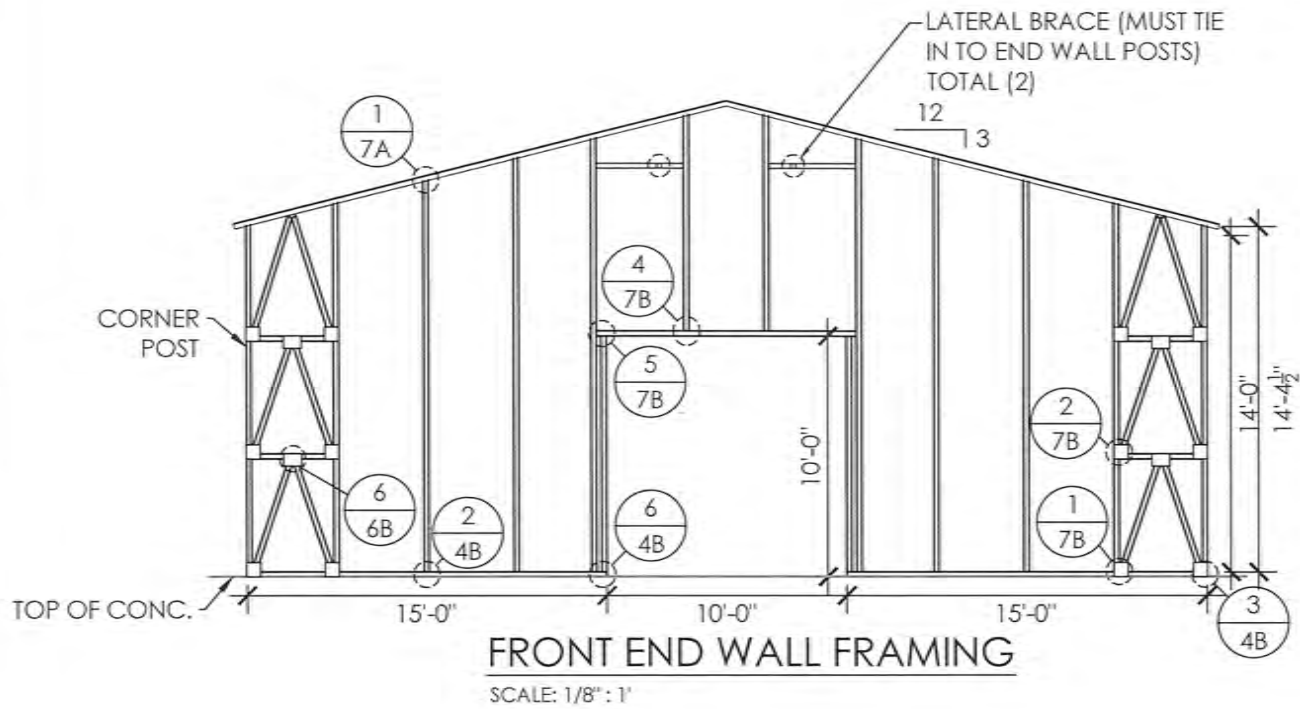
PREPARED FOR:

Interstate Steel Structures
385 W. Esplanade Ave
San Jacinto, CA 92583
Tel: 1-888-654-2435
Fax: 951-654-2008

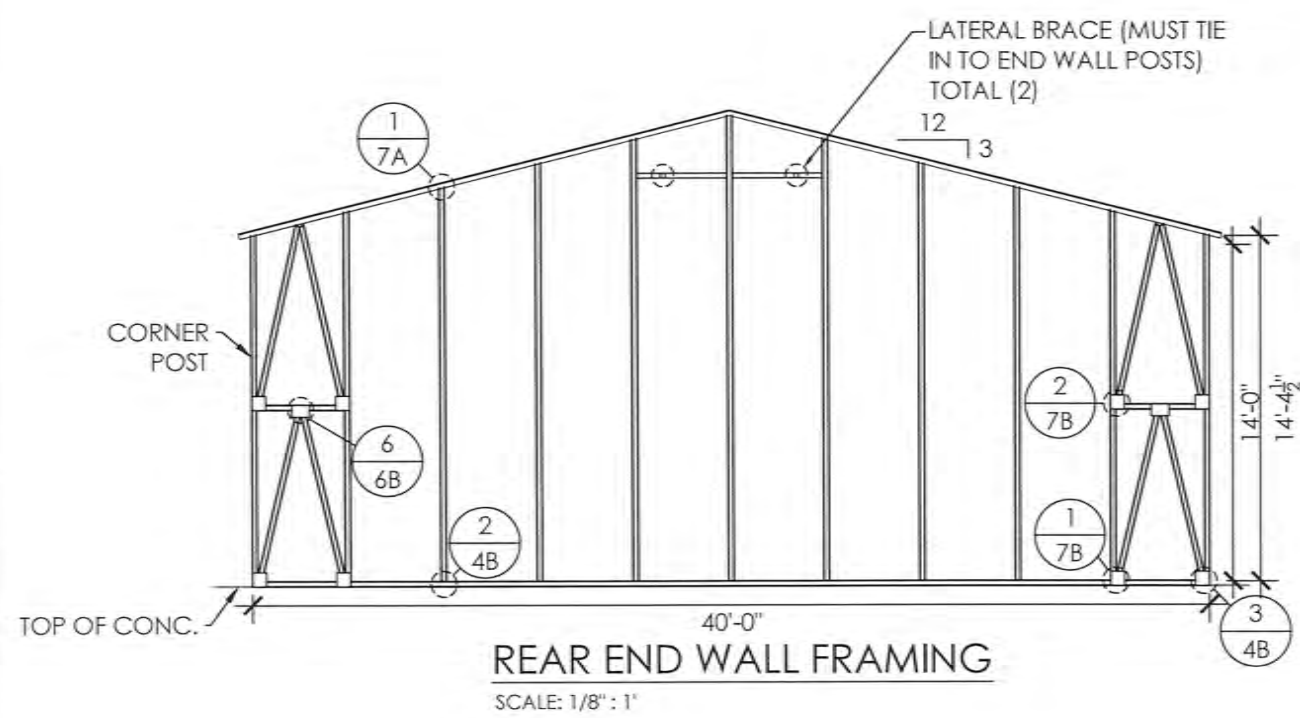
SEAL:

EXPIRES: 12/31/2022

DATE SIGNED: JUNE 22 2021

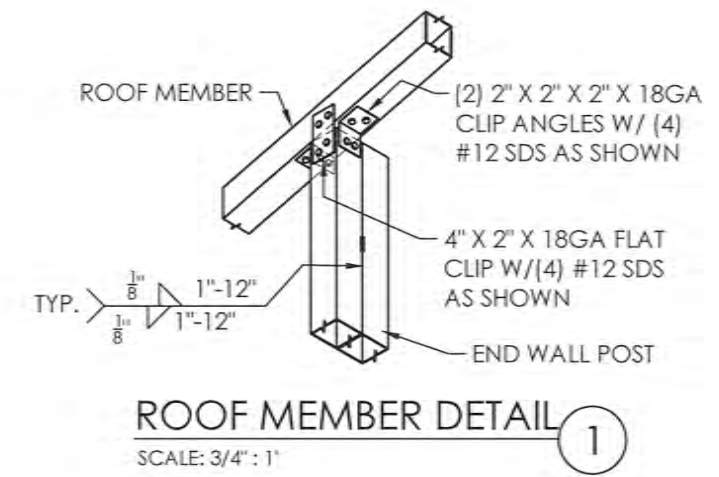


FRONT END WALL FRAMING
SCALE: 1/8" : 1'



REAR END WALL FRAMING
SCALE: 1/8" : 1'

MEMBER PROPERTIES	
CORNER POST	2 1/4" SQ. X 12GA TUBE
ROOF MEMBER	2 1/4" SQ. X 12GA TUBE
BASE RAIL	2 1/4" SQ. X 12GA TUBE
HEADER	2 1/4" SQ. X 12GA TUBE
DOOR POST	2 1/4" SQ. X 12GA TUBE
END WALL POSTS	(2) 2 1/4" SQ. X 12GA TUBE - STITCH WELDED
ALL BRACES	2 1/4" SQ. X 14GA TUBE



ROOF MEMBER DETAIL 1
SCALE: 3/4" : 1'

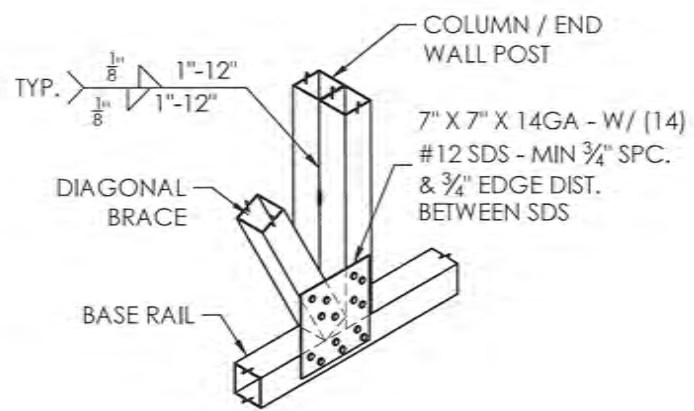
OWNER:	RAFAEL AVILA	LOCATION:	APN#82508026 SAN MARTIN, CA 95046
SHEET TITLE:	END WALL FRAMING & DETAILS		
DRAWING NO.:	MBD1C02869C	PROJECT NO.:	201-21-1998
DRAWN BY:	A.F	CHECKED BY:	
DATE:	22-JUN-2021	SHEET NO.:	7A OF 7

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Interstate Steel Structures
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San Jacinto, CA 92583
Tel: 1-888-654-2435
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SEAL:

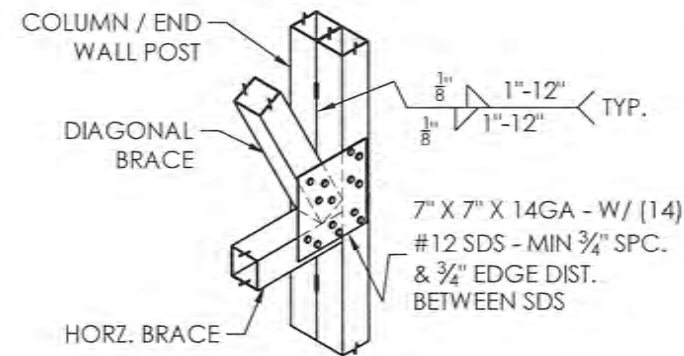
EXPIRES: 12/31/2022

DATE SIGNED: JUNE 22 2021



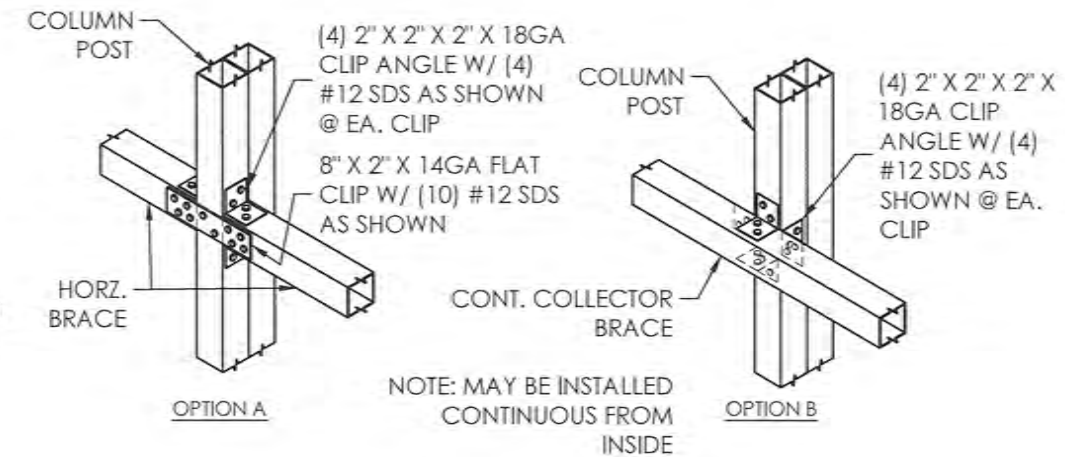
LATTICE BRACE DETAIL ①

SCALE: 3/4" : 1'



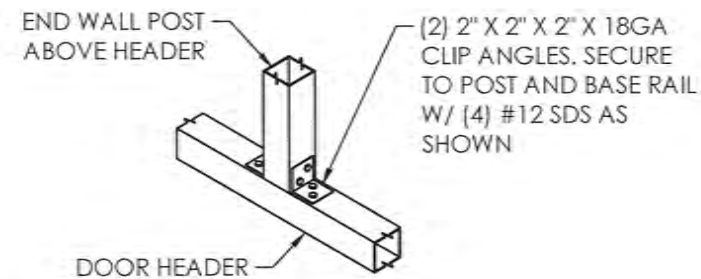
LATTICE BRACE DETAIL ②

SCALE: 3/4" : 1'



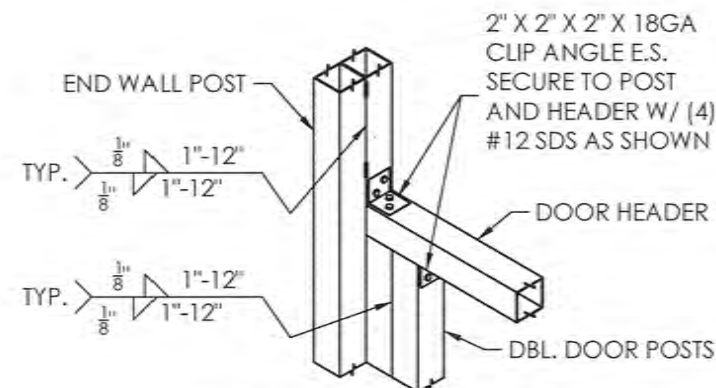
COLLECTOR BRACE DETAIL ③

SCALE: 3/4" : 1'



ABOVE HEADER DETAIL ④

SCALE: 3/4" : 1'



DOOR HEADER DETAIL ⑤

SCALE: 3/4" : 1'

OWNER:	RAFAEL AVILA	LOCATION:	APN#82508026 SAN MARTIN, CA 95046
SHEET TITLE:	END WALL FRAMING DETAILS		
DRAWING NO.:	MBD1C02869C	PROJECT NO.:	201-21-1998
DRAWN BY:	A.F	CHECKED BY:	
DATE:	22-JUN-2021	SHEET NO.:	7B OF 7

PREPARED FOR:

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SEAL:

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