APEX METAL BUILDING SYSTEMS

120 Connor St NE
Live Oak, FL 32064

Ph. 800-231-0026
www.apex-mbs.com

BUILDING LOADS / DESCRIPTION:

WIDTH: 50 LENGTH: 100 HEIGHT: 8 /18
(BUILDING DIMENSIONS ARE NOMINAL. REFER TO PLAN).

THIS STRUCTURE IS DESIGNED UTILIZING THE LOADS IDICATED AND APPLIED AS REQUIRED BY : IBC 15

THE CONTRACTOR IS TO CONFIRM THAT THESE LOADS COMPLY WITH THE REQUIREMENTS OF THE LOCAL BUILDING DEARTMENT.

ROOF DEAD LOAD:	2.000	PSF (ROOF PANEL & PURLINS)
COLLATERAL LOAD:	0	PSF
ROOF LIVE LOAD:	20.00	PSF
ROOF SNOW LOAD:	0	PSF
BASIC WIND SPEED:	143	MPH
SEISMIC ZONE:	B	
WIND EXPOSURE:	B	

IMPORTANCE FACTORS:

WIND LOAD:	___	1.00
SNOW LOAD	___	1.0000
SEISMIC LOAD	___	1.00

GENERAL NOTES:

1) MATERIALS :

	MINIMUM YIELD:	
HOT ROLLED BAR	Fy =	ksiMIN.
STRUCTURAL STEEL SHEET	Fy =	ksiMIN.
STRUCTURAL STEEL PLATE	Fy =	ksiMIN.
COLD FORMED SHAPES	Fy =	ksiMIN.
WALL SHEETING	Fy =	ksiMIN.
ROOF SHEETING	Fy =	ksiMIN.
BOLTS	A307 & A325	

THE METAL BUILDING MANUFACTURER RESERVES THE RGHT TO SUBSTITUTE THE ABOVE MATERIALS WITH EQUAL OR BETER MATERIAL.

2) BOLT TIGHTENING REQUIREMENTS:
ALL HIGH STRENGTH BOLTS ARE A325 UNLESS NOTED OTHERWISE.
HIGH STRENGTH BOLTS SHALL BE TIGHTENED BY THE URN OF THE NUT METHOD IN ACCORDANCE WITH THE LATEST EDITION AISC "SPECICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLT". A325 BOLTS SHALL BE INSTALLED WITH OUT WASHERS WHEN TIGHTENED BY TE "TURN OF THE NUT" METHOD. ALL BOLTED CONNECTIONS, FOR SHEAR/BEARNG CONNECTION TYPE WITH BOLT THREADS EXCLUDED FROM THE SHEAR PLAE SHALL BE SNUG TIGHT ONLY.

3) ALL STRUCTUAL STEEL TO RECEIVE A RUST INHIBITIVE RIMER. THIS PAINT IS NOT INTENDED FOR LONG TERM EXPOSURE TO THE ELEMENTS.

ROOF PANELS:

COLOR: Galvalume 26ga.

WALL PANELS:

COLOR: Need Std. Color

TRIM COLORS:

CABLE: Need Std. Color
CORNER: Need Std. Color
EAVE: Need Std. Color
FRAMED OPENINGS: Need Std. Color

LINER PANELS:

COLOR: N/A

LINER TRIM:

COLOR: N/A

DEFLECTION LIMTS:

EW COL:	120
EW RAF LIVE:	180
EW RAF WIND:	180
WALL GIRT:	120
PURL LIVE:	150
PURL WIND:	150
WALL PANEL:	90
ROOF PANEL LIVE:	180
ROOF PANEL WIND:	120
RF HORIZONTAL:	75
RF VERTICAL:	180
WIND BENT:	75
RF CRANE:	100
RF SEIS:	50
WIND BENT SEIS:	50

KYLE S. McDONOUGH
LICENSE
No. 83601
STATE OF FLORIDA
PROFESSIONAL ENGINEER
8-4-20

BUILDER / CONTRACTOR RESPONSIBILITIES

IT IS THE RESPONSIBILITY OF THE BUILDER/CONTRACTOR TO INSURE THAT ALL PROJECT PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE REQUIREMENTS OF ANY GOVERNING BUILDING AUTHORITIES. THE SUPPLYING OF SEALED ENGINEERING DATA AND DRAWINGS FOR THE METAL BUILDING SYSTEM DOES NOT IMPLY OR CONSTITUTE AN AGREEMENT THAT THE METAL BUILDING SYSTEM MANUFACTURER OR ITS DESIGN ENGINEER IS ACTING AS THE ENGINEER OF RECORD OR DESIGN PROFESSIONAL FOR A CONSTRUCTION PROJECT.
THE CONTRACTOR MUST SECURE ALL REQUIRED APPROVALS AND PERMITS FROM THE APPROPRIATE AGENCY AS REQUIRED.
APPROVAL OF THE METAL BUILDING SYSTEM MANUFACTURER'S DRAWINGS AND CALCULATIONS INDICATE THAT THE METAL BUILDING SYSTEM MANUFACTURER CORRECTLY INTERPRETED AND APPLIED THE REQUIREMENTS OF THE CONTRACT DRAWINGS AND SPECIFICATIONS. (SECT. 4.2.1 AISC CODE OF STANDARD PRACTICES, 9TH ED.)
WHERE DISCREPANCIES EXIST BETWEEN THE METAL BUILDING SYSTEM MANUFACTURER'S STRUCTURAL STEEL PLANS AND THE PLANS FOR OTHER TRADES, THE STRUCTURAL STEEL PLANS SHALL GOVERN. (SECT. 3.3 AISC CODE OF STANDARD PRACTICE 9TH ED.)
DESIGN CONSIDERATIONS OF ANY MATERIALS IN THE STRUCTURE WHICH ARE NOT FURNISHED BY THE METAL BUILDING SYSTEM MANUFACTURER ARE THE RESPONSIBILITY OF THE CONTRACTORS AND ENGINEERS OTHER THAN THE METAL BUILDING SYSTEM MANUFACTURER'S ENGINEER UNLESS SPECIFICALLY INDICATED.
THE CONTRACTOR IS RESPONSIBILE FOR ALL ERECTION OF STEEL AND ASSOCIATED WORK IN COMPLIANCE WITH THE METAL BUILDING SYSTEM MANUFACTURER "FOR CONSTRUCTION" DRAWINGS.
ALL BRACING AS SHOWN AND PROVIDED BY THE METAL BUILDING SYSTEM MANUFACTURER FOR THIS BUILDING IS REQUIRED AND SHALL BE INSTALLED BY THE ERECTOR AS A PERMANENT PART OF THE STRUCTURE.
TEMPORARY SUPPORTS, SUCH AS TEMPORARY GUYS, BRACES, FALSE WORK, CRIBBING OR OTHER ELEMENTS REQUIRED FOR THE ERECTION OPERATION WILL BE DETERMINED AND FURNISHED AND INSTALLED BY THE ERECTOR. THESE TEMPORARY SUPPORTS WILL SECURE THE STEEL FRAMING, OR ANY PARTLY ASSEMBLIED STEEL FRAMING, AGAINST LOADS COMPARABLE IN INTENSITY TO THOSE FOR WHICH THE STRUCTURE WAS DESIGNED, RESULTING FROM WIND, SEISMIC FORCES AND ERECTION OPERATIONS, BUT NOT THE LOADS RESULTING FROM THE PERFORMANCE OF WORK BY OR THE ACTS OF OTHERS, NOR SUCH UNPREDICTABLE LOADS AS THOSE DUE TO TORNADO, EXPLOSION, OR COLLISION. (SECT. 7.9.1 AISC CODE OF STANDARD PRACTICE, 9TH ED.)
WARNING : IN NO CASE SHOULD GALVALUME STEEL PANELS BE USED IN CONJUNCTION WITH LEAD OR COPPER. BOTH LEAD AND COPPER HAVE HARMFUL CORROSION EFFECTS ON THE ALUMINUM ZINC ALLOY COATING WHEN THEY ARE USED IN CONTACT WITH GALVALUME STEEL PANELS. EVEN RUN-OFF FROM COPPER FLASHING, WIRING, OR TUBING ONTO GALVALUME SHOULD BE AVOIDED.

APPROVAL NOTES

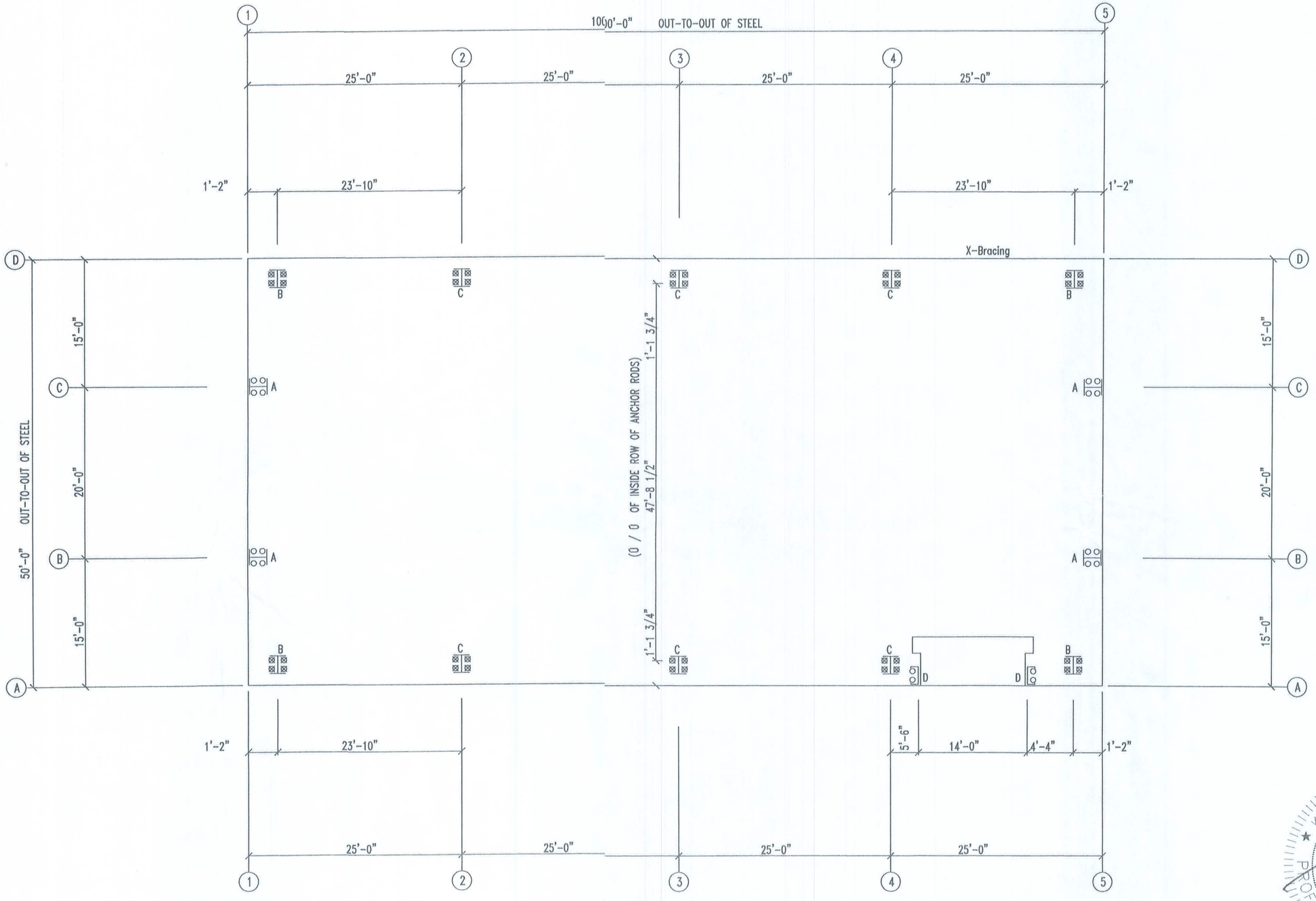
THE FOLLOWING CONDITIONS APPLY IN THE EVENT THAT THESE DRAWINGS ARE USED AS APPROVAL DRAWINGS:
IT IS IMPERATIVE THAT ANY CHANGES TO THESE DRAWINGS BE MADE IN CONTRASTING INK (PREFERABLY RED INK), HAVE ALL INSTANCES OF CHANGE CLEARLY INDICATED, AND BE LEGIBLE AND UNAMBIGUOUS.
A SIGNATURE AND DATE IS REQUIRED ON ALL PAGES.
MANUFACTURER RESERVES THE RIGHT TO RE-SUBMIT DRAWINGS WITH EXTENSIVE OR COMPLEX CHANGES REQUIRED TO AVOID MISFABRICATION. THIS MAY IMPACT THE DELIVERY SCHEDULE.
APPROVAL OF THESE DRAWINGS INDICATES CONCLUSIVELY THAT THE METAL BUILDING SYSTEM MANUFAACTURER HAS CORRECTLY INTERPRETED THE CONTRACT REQUIREMENTS, AND FURTHER CONSTITUTES AGREEMENT THAT THE BUILDING AS DRAWN WITH INDICATED CHANGES REPRESENTS THE TOTAL OF THE MATERIALS TO BE SUPPLIED BY MANUFACTURER.
ANY CHANGES NOTED ON THHE DRAWINGS NOT IN COMFORMANCE WITH THE TERMS AND REQUIREMENTS OF THE CONTRACT BETWEEN MANUFACTURER AND ITS CUSTOMER ARE NOT BINDING ON MANUFACTURER UNLESS SUBSEQUENTLY SPECIFICALLY ACKNOWLEDGED AND AGREED TO IN WRITING BY CHANGE ORDER OR SEPARATE DOCUMENTATION. MANUFACTURER RECONGNIZES THAT RUBBER STAMPS ARE ROUTINELY USED FOR INDICATING APPROVAL, DISAPPROVAL, REJECTION, OR MERE REVIEW OF THE DRAWINGS SUBMITTED. HOWEVER, MANUFACTURER DOES NOT ACCEPT CHANGES OR ADDITIONS TO CONTRACTURAL TERMS AND CONDITIONS THAT MAY APPEAR WITH USE OF A STAMP OR SIMILIAR INDICATIOIN OF APPROVAL, DISAPPROVAL, ETC. SUCH LANGUAGE APPLIED TO MANUFACTURER'S DRAWINGS BY THE CUSTOMER, ARCHITECT, ENGINEER, OR ANY OTHER PARTY WILL BE CONSIDERED AS UNACCEPTABLE ALTERNATIONS TO THESE DRAWING NOTES, AND WILL NOT ALTER THE CONTRACTUAL RIGHTS AND OBLIGATIONS EXISTING BETWEEN MANUFACTURER AND ITS CUSTOMER.

IMPORTANT NOTE: FINAL DETAILING, FABRICATION, AND DELIVERY DATE OF THIS PROJECT CANNOT BE COMPLETED UNTIL THE SIGNED APPROVALS ARE RETURNED TO THE METAL BUILDING MANUFACTURER.

COLUMBIA COUNTY BUILDING DEPARTMENT
Received for FILE COPY
Code Compliance
PLANS EXAMINER

NO).	DATE	REVISION
1	7/21/20	FOR PERMIT

PURCHASER:
PROJECT: McCauley Residence
JOB NUMBER: 20-375



ANCHOR ROD PLAN

NOTE: : All Base Plates @ 100'-0" (FINISH FLOOR)(UNLESS NOTED)

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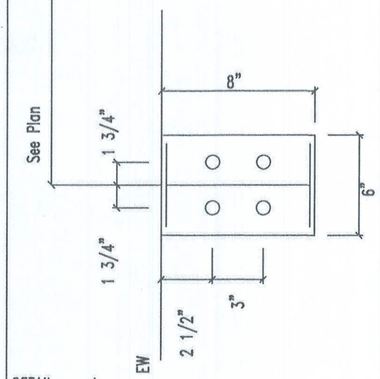
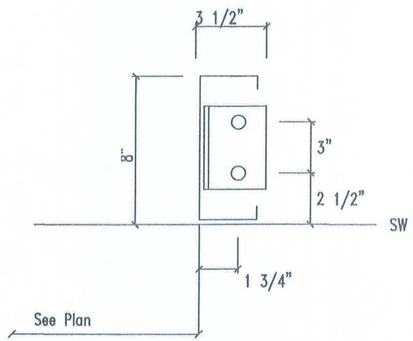
DESCRIPTION: Anchor Rod Plan						
CUSTOMER:					PROJECT: McCauley Residence	
LOCATION: Milton, FL 32583						
DRN. BY	CK'D BY	DATE 7/21/20	SCALE N.T.S.	REV. 00	QUOTATION NO. 20-375	SHEET NO. 2 of 15

Dia= 5/8"



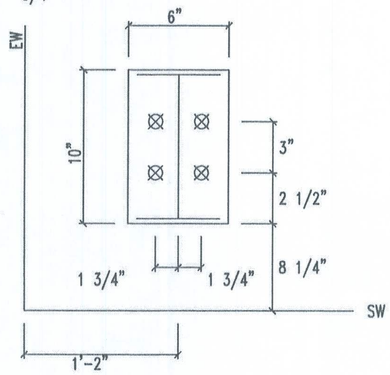
DETAIL A

Dia= 5/8"



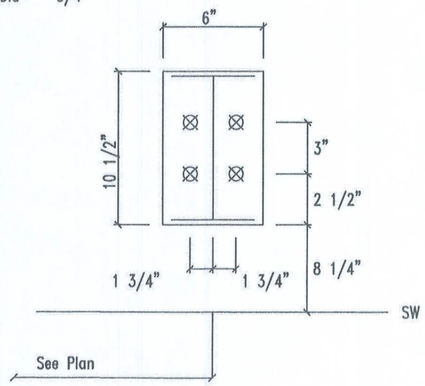
DETAIL D

Dia= 3/4"

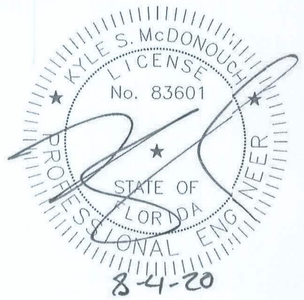


DETAIL B

Dia= 3/4"



DETAIL C



APEX METAL BUILDING SYSTEMS
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DESCRIPTION: ANCHOR BOLT DETAILS						
CUSTOMER:					PROJECT: McCauley Residence	
LOCATION: Milton, FL 32583						
DRN. BY	CK'D BY	DATE 7/21/20	SCALE N.T.S.	REV. 00	QUOTATION NO. 20-375	SHEET NO. 3 of 15

NOTES FOR REACTIONS

1. All loading conditions are examined and only maximum/minimum H or V and the corresponding H or V are reported.
2. Positive reactions are as shown in the sketch. Foundation loads are in opposite directions.
3. Bracing reactions are in the plane of the brace with the H pointing away from the braced bay. The vertical reaction is downward.
4. Building reactions are based on the following building data:

Width (ft)	=	50.0
Length (ft)	=	100.0
Eave Height (ft)	=	18.0/ 18.0
Roof Slope (rise/12)	=	4.0/ 3.9
Dead Load (psf)	=	2.0
Collateral Load (psf)	=	0.0
Roof Live Load(psf)	=	20.0
Frame Live Load(psf)	=	12.0
Wind Speed (mph)	=	143.0
Wind Code	=	FBC 17 (IBC 15)
Exposure	=	B
Closed/Open	=	C
Importance Wind	=	1.00
Importance Seismic	=	1.00
Seismic Zone	=	B
Seismic Coeff (Fa*Ss)	=	0.15

5. Loading conditions are:

1 Dead+Collateral+Live
2 Dead+Collateral+0.75Live+0.45Wind_Left1
3 Dead+Collateral+0.75Live+0.45Wind_Right1
4 Dead+Collateral+0.75Live+0.45Wind_Long1R
5 Dead+Collateral+0.75Live+0.45Wind_Long2L
6 Dead+Collateral+0.75Live+0.45Wind_Long2R
7 0.6Dead+0.6Wind_Left1
8 0.6Dead+0.6Wind_Right1
9 0.6Dead+0.6Wind_Left2
10 0.6Dead+0.6Wind_Right2
11 0.6Dead+0.6Wind_Long1L
12 0.6Dead+0.6Wind_Right2+0.6Wind_Suction
13 0.6Dead+0.6Wind_Pressure+0.6Wind_Long2L
14 Dead+0.6Wind_Right2+0.6Wind_Suction

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Dead Vert	Wind Press Horz	Wind Suct Horz
1	C	0.2	-5.7	6.3
1	B	0.2	-5.6	6.2
5	B	0.3	-5.6	6.2
5	C	0.3	-5.7	6.3

ENDWALL COLUMN: MAXIMUM REACTIONS, ANCHOR RODS, & BASE PLATES

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Dia	Base_Plate(in) Width	Length	Thick	Grout (in)
1	C	12	3.8	0.1	13	-3.4	0.1	4	0.62	6.000	8.000	0.375	0.0
		14	3.8	0.2					25				
1	B	12	3.7	0.1	13	-3.4	0.1	4	0.62	6.000	8.000	0.375	0.0
		14	3.7	0.2					25				
5	B	12	3.7	0.2	13	-3.4	0.2	4	0.62	6.000	8.000	0.375	0.0
		14	3.7	0.3					25				
5	C	12	3.8	0.2	13	-3.4	0.2	4	0.62	6.000	8.000	0.375	0.0
		14	3.8	0.3					25				

ANCHOR BOLT SUMMARY

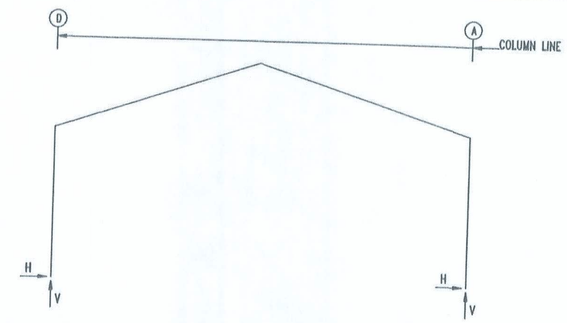
Qty	Locate	Dia (in)	Type	Total Len (in)	Bend Len (in)	Proj (in)
○ 4	Jamb	5/8"	A307	9.00	3.00	3.00
○ 16	Endwall	5/8"	A307	9.00	3.00	3.00
⊠ 40	Frame	3/4"	A307	12.0	3.00	3.00

BUILDING BRACING REACTIONS

Wall Loc	Line	Col Line	± Reactions(k) Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	Panel_Shear (lb/ft) Wind	Seis	Note
L_EW	1								
F_SW	A	Torsional Bracing Used							(h)
R_EW	5								
B_SW	D	5,4	12.9	8.8	0.9	0.6			(h)

(h)Rigid frame at endwall

FRAME LINES: 1 2 3 4 5



RIGID FRAME: MAXIMUM REACTIONS, ANCHOR RODS, & BASE PLATES

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Dia	Base_Plate(in) Width	Length	Thick	Grout (in)
1	D	3	2.0	0.9	9	-3.8	-3.9	4	0.750	6.000	10.00	0.500	0.0
		1	1.7	5.2	7	-3.7	-6.1						
1	A	10	3.9	-4.0	2	-2.0	0.9	4	0.750	6.000	10.00	0.500	0.0
		1	-1.7	5.2	8	3.7	-6.2						

RIGID FRAME: MAXIMUM REACTIONS, ANCHOR RODS, & BASE PLATES

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Dia	Base_Plate(in) Width	Length	Thick	Grout (in)
2*	D	5	3.6	-1.1	9	-5.5	-5.0	4	0.750	6.000	10.50	0.500	0.0
		1	3.0	9.6	11	-0.6	-14.1						
2*	A	10	5.6	-5.1	4	-3.7	2.9	4	0.750	6.000	10.50	0.500	0.0
		1	-3.0	9.6	8	5.3	-9.3						

2* Frame lines: 2 3 4

RIGID FRAME: MAXIMUM REACTIONS, ANCHOR RODS, & BASE PLATES

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Dia	Base_Plate(in) Width	Length	Thick	Grout (in)
5	D	5	2.7	-1.7	9	-3.8	-3.9	4	0.750	6.000	10.00	0.500	0.0
		6	2.7	6.2	11	-1.3	-10.5						
5	A	10	3.9	-4.0	4	-2.8	2.3	4	0.750	6.000	10.00	0.500	0.0
		1	-1.7	5.2	8	3.7	-6.2						

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead Horiz	Dead Vert	Live Horiz	Live Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert	Wind_Left2 Horiz	Wind_Left2 Vert	Wind_Right2 Horiz	Wind_Right2 Vert
1	D	0.4	1.3	1.3	3.9	-6.5	-11.6	1.4	-7.4	-6.8	-7.9	1.1	-3.8
1	A	-0.4	1.3	-1.3	3.9	-1.4	-7.4	6.5	-11.6	-1.1	-3.7	6.8	-7.9
5	D	0.4	1.3	1.3	3.9	-6.5	-11.6	1.4	-7.4	-6.8	-7.9	1.1	-3.8
5	A	-0.4	1.3	-1.3	3.9	-1.4	-7.4	6.5	-11.6	-1.1	-3.7	6.8	-7.9
2*	D	0.6	2.1	2.4	7.5	-9.2	-17.5	2.3	-11.6	-9.8	-10.5	1.7	-4.6
2*	A	-0.6	2.1	-2.4	7.5	-2.3	-11.6	9.3	-17.6	-1.7	-4.6	9.9	-10.6

Frame Line	Column Line	Wind_Long1 Horiz	Wind_Long1 Vert	Wind_Long2 Horiz	Wind_Long2 Vert	Seismic_Left Horiz	Seismic_Left Vert	Seismic_Right Horiz	Seismic_Right Vert	Seismic_Long Horiz	Seismic_Long Vert
1	D	0.8	-7.6	-0.3	-6.9	-0.1	-0.1	0.1	0.1	0.0	0.0
1	A	0.3	-6.8	-0.8	-7.6	-0.1	0.1	0.1	-0.1	0.0	0.0
5	D	-2.6	-18.8	3.1	-13.3	-0.1	-0.1	0.1	0.1	-0.2	-0.8
5	A	-3.1	-4.4	2.6	-10.1	-0.1	0.1	0.1	-0.1	-0.2	0.2
2*	D	-1.6	-25.6	2.7	-19.7	-0.1	-0.1	0.1	0.1	-0.2	-0.7
2*	A	-2.8	-10.8	1.7	-16.9	-0.1	0.1	0.1	-0.1	-0.2	0.2

2* Frame lines: 2 3 4

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8-4-20

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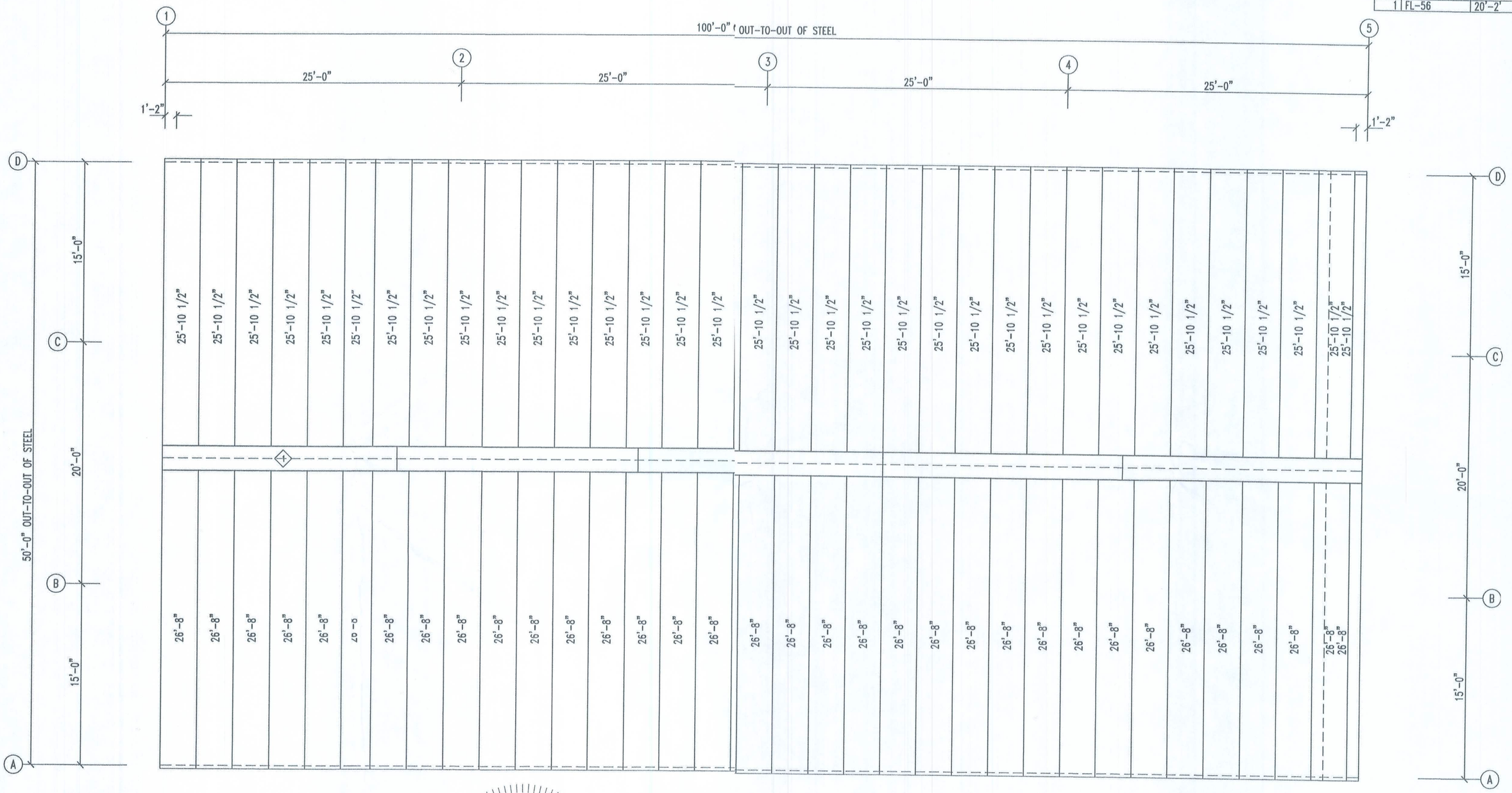
DESCRIPTION: Reactions						
CUSTOMER:					PROJECT: McCauley Residence	
LOCATION: Milton, FL 32583						
DRN. BY	CK'D BY	DATE 7/21/20	SCALE N.T.S.	REV. 00	QUOTATION NO. 20-375	SHEET NO. 4 of 15

TRIM TABLE ROOF PLAN		
◇ID	PART	LENGTH
1	FL-56	20'-2"



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ROOF SHEETING PLAN

PANELS: 26 Ga., PBR – Galvalume 26ga.

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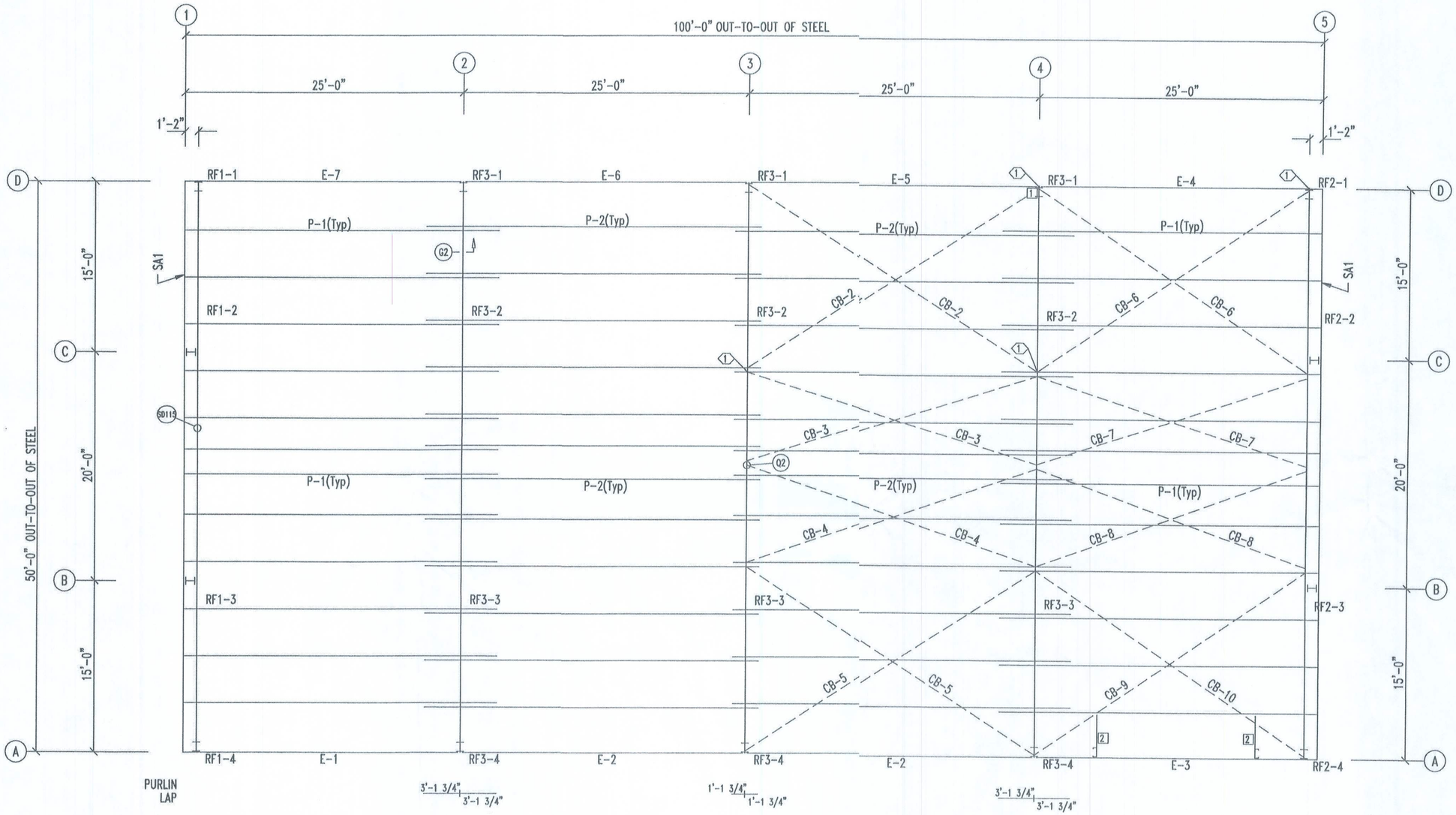
DESCRIPTION: ROOF FRAMING PLAN						
CUSTOMER:					PROJECT: McCauley Resicence	
LOCATION: Milton, FL 32583						
DRN. BY	CK'D BY	DATE 7/21/20	SCALE N.T.S.	REV. 00	QUOTATION NO. 20-375	SHEET NO. 5 of 15



ROOF FRAMING PLAN

SPECIAL BOLTS
ROOF PLAN

○ ID	QUAN	TYPE	DIA	LENGTH	WASH
1	4	A307	1/2"	1 1/4"	0

MEMBER TABLE
ROOF PLAN

MARK	PART	LENGTH
P-1	8X35Z14	28'-1 1/2"
P-2	8X35Z16	29'-3 1/2"
E-1	8.50E14	24'-11 1/2"
E-2	8.50E14	24'-11 1/2"
E-3	8.50E14	24'-11 1/2"
E-4	8.50E12	24'-11 1/2"
E-5	8.50E12	24'-11 1/2"
E-6	8.50E14	24'-11 1/2"
E-7	8.50E14	24'-11 1/2"
CB-2	CB0313	29'-8"
CB-3	CB0250	26'-4"
CB-4	CB0250	26'-7"
CB-5	CB0250	29'-8"
CB-6	CB0313	28'-8"
CB-7	CB0250	25'-2"
CB-8	CB0250	25'-5"
CB-9	CB0250	28'-8"
CB-10	CB0250	28'-7"

CONNECTION PLATES
ROOF PLAN

□ ID	MARK/PART
1	CL-18
2	JB-1

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CUSTOMER:
PROJECT: McCauley Resicence
LOCATION: Milton, FL 32583

DRN. BY	CK'D BY	DATE	SCALE	REV.	QUOTATION NO.	SHEET NO.
		7/21/20	N.T.S.	00	20-375	6 of 15

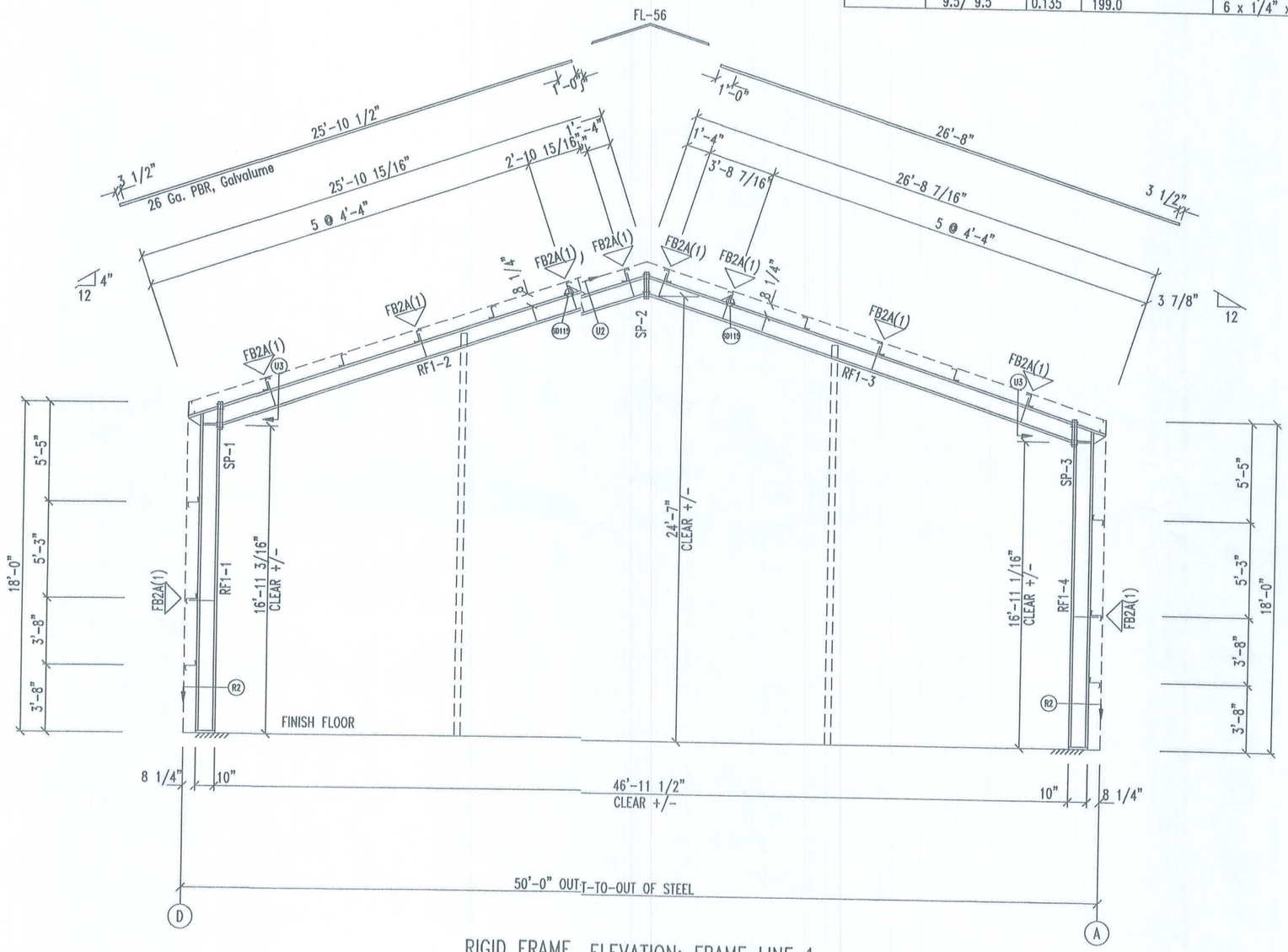
SPLICE PLATE & BOLT TABLE

Mark	Qty Top	Qty Bot	Qty Int	Type	Dia	Length	Width	Thick	Length
SP-1	4	4	0	A325	5/8"	2 1/4"	6"	5/8"	1'-5 5/16"
SP-2	4	4	0	A325	5/8"	1 3/4"	6"	3/8"	1'-5 1/4"
SP-3	4	4	0	A325	5/8"	2 1/4"	6"	5/8"	1'-5 1/4"

FLANGE BRACES: FBxx (1 or 2)
xx=length(in)
(1) One Side; (2) Two Sides
A - 2X2X14Ga

MEMBER TABLE

Mark	Web Depth Start/End	Web Plate Thick	Web Plate Length	Outside Flange W x Thk x Length	Inside Flange W x Thk x Length
RF1-1	9.5/ 9.5	0.135	199.1	6 x 1/4" x 209.3	6 x 1/4" x 199.1
	9.5/ 9.5	0.313	13.4	6 x 1/4" x 18.9	
RF1-2	9.5/ 9.5	0.135	240.0	6 x 5/16" x 122.2	6 x 1/4" x 290.3
	9.5/ 9.5	0.135	53.5	6 x 1/4" x 168.0	
RF1-3	9.5/ 9.5	0.135	62.9	6 x 1/4" x 168.0	6 x 1/4" x 299.7
	9.5/ 9.5	0.135	240.0	6 x 5/16" x 131.7	
RF1-4	9.5/ 9.5	0.313	13.4	6 x 1/4" x 18.8	6 x 1/4" x 199.0
	9.5/ 9.5	0.135	199.0	6 x 1/4" x 209.2	



RIGID FRAME ELEVATION: FRAME LINE 1

KYLE S. McDONOUGH
LICENSE
No. 83601
STATE OF FLORIDA
PROFESSIONAL ENGINEER
8-4-20

APEX METAL BUILDING SYSTEMS
120 Connor St NE
Live Oak, FL 32064
Ph. 800-231-0026
www.apex-mbs.com

DESCRIPTION: CROSS SECTION						
CUSTOMER:					PROJECT: McCauley Residence	
LOCATION: Milton, FL 32583						
DRN. BY	CK'D BY	DATE 7/21/20	SCALE N.T.S.	REV. 00	QUOTATION NO. 20-375	SHIET NO. 7 of 15

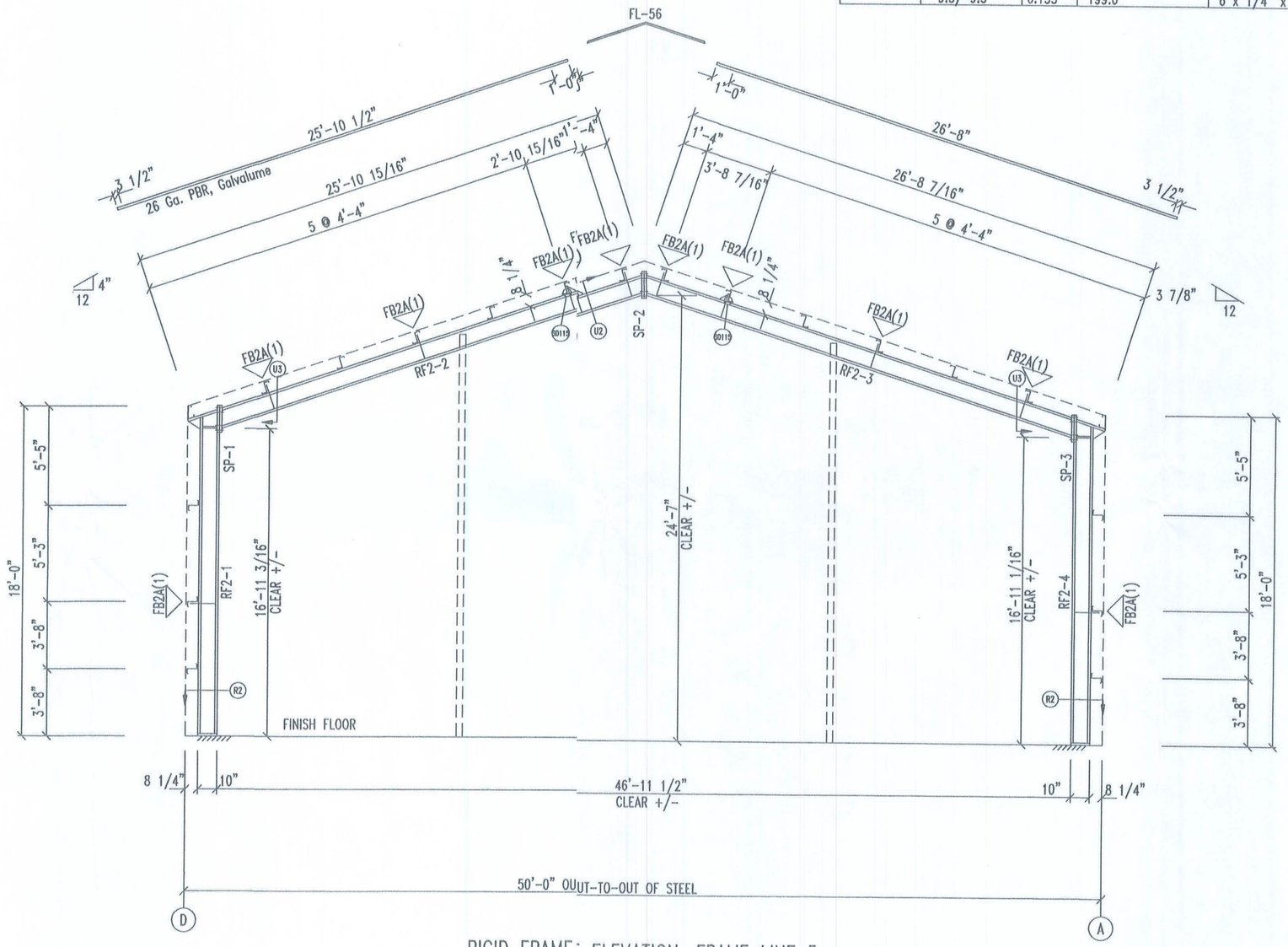
SPLICE PLATE & BOLT TABLE

Mark	Qty Top	Bot	Int	Type	Dia	Length	Width	Thick	Length
SP-1	4	4	0	A325	5/8"	2 1/4"	6"	5/8"	1'-5 5/16"
SP-2	4	4	0	A325	5/8"	1 3/4"	6"	3/8"	1'-5 1/4"
SP-3	4	4	0	A325	5/8"	2 1/4"	6"	5/8"	1'-5 1/4"

FLANGE BRACES: FBxx (1 or 2)
xx=length(in)
(1) One Side; (2) Two Sides
A - 2X2X14Ga

MEMBER TABLE

Mark	Web Depth Start/End	Web Plate Thick	Web Plate Length	Outside Flange W x Thk x Length	Inside Flange W x Thk x Length
RF2-1	9.5/ 9.5	0.135	199.1	6 x 1/4" x 209.3	6 x 1/4" x 199.1
	9.5/ 9.5	0.375	13.4	6 x 1/4" x 18.9	
RF2-2	9.5/ 9.5	0.135	240.0	6 x 5/16" x 122.2	6 x 1/4" x 290.3
	9.5/ 9.5	0.135	53.5	6 x 1/4" x 168.0	
RF2-3	9.5/ 9.5	0.135	62.9	6 x 1/4" x 168.0	6 x 1/4" x 299.7
	9.5/ 9.5	0.135	240.0	6 x 5/16" x 131.7	
RF2-4	9.5/ 9.5	0.313	13.4	6 x 1/4" x 18.8	6 x 1/4" x 199.0
	9.5/ 9.5	0.135	199.0	6 x 1/4" x 209.2	



RIGID FRAME: ELEVATION: FRAME LINE 5

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DESCRIPTION: CROSS SECTION						
CUSTOMER:					PROJECT: McCauley Residence	
LOCATION: Milton, FL 32583						
DRN. BY	CK'D BY	DATE 7/21/20	SCALE N.T.S.	REV. 00	QUOTATION NO. 20-375	SHEET NO. 8 of 15

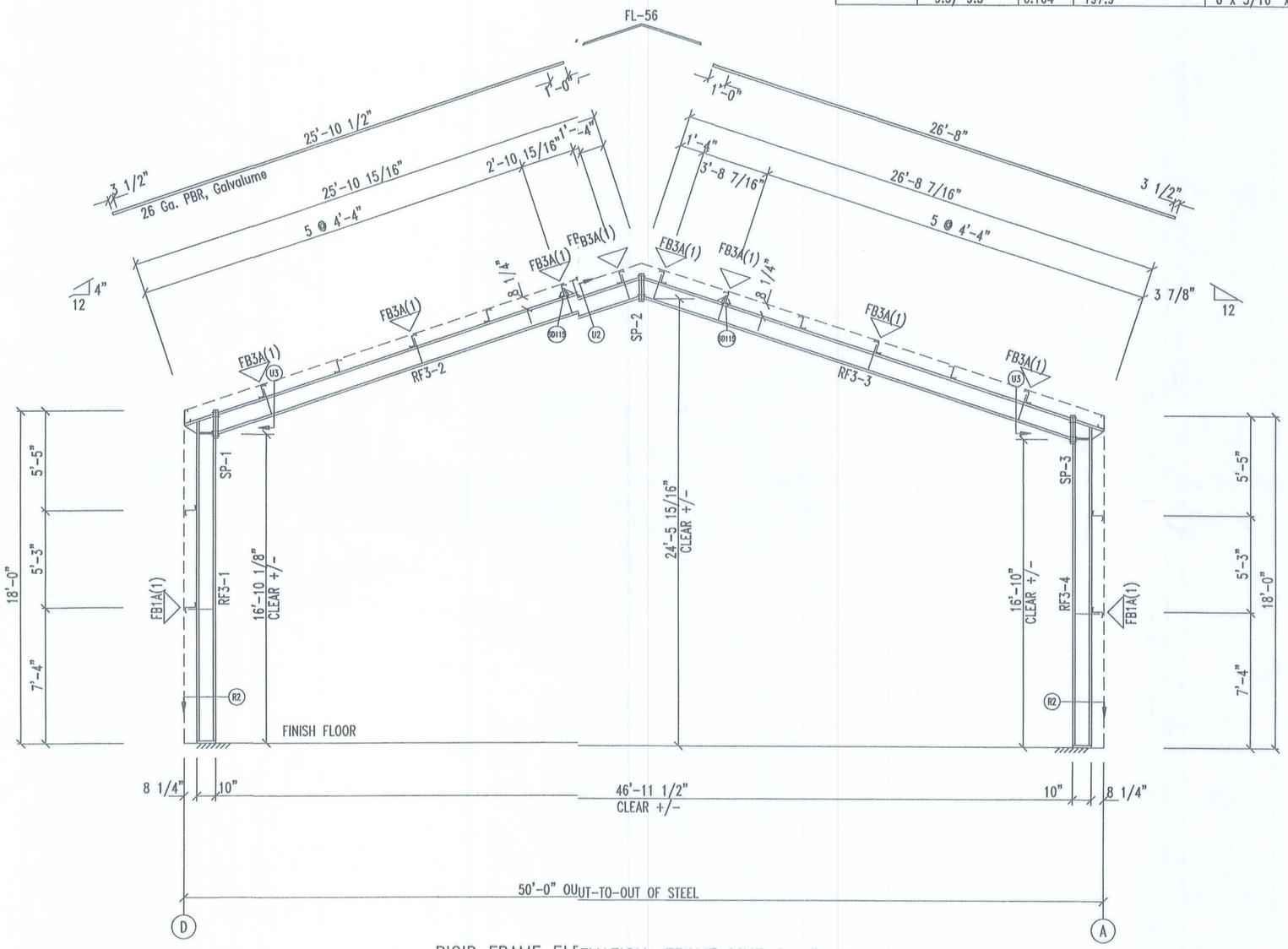
SPLICE PLATE & BOLT TABLE

Mark	Qty Top	Bot	Int	Type	Dia	Length	Width	Thick	Length
SP-1	4	4	0	A325	3/4"	2 1/4"	6"	5/8"	1'-6 1/4"
SP-2	4	4	0	A325	5/8"	2"	6"	1/2"	1'-6 3/16"
SP-3	4	4	0	A325	3/4"	2 1/4"	6"	5/8"	1'-6 3/16"

FLANGE BRACES: FBxx (1 or 2)
xx=length(in)
(1) One Side; (2) Two Sides
A - 2X2X14Ga

MEMBER TABLE

Mark	Web Depth Start/End	Web Plate Thick	Web Plate Length	Outside Flange W x Thk x Length	Inside Flange W x Thk x Length
RF3-1	9.3/ 9.3	0.164	198.1	6 x 5/16" x 209.2	6 x 3/8" x 198.1
	9.3/ 9.3	0.500	14.4	6 x 5/16" x 18.7	
RF3-2	10.3/10.3	0.135	240.0	6 x 5/16" x 290.2	6 x 3/8" x 290.3
	10.3/10.3	0.135	53.8		
RF3-3	10.3/10.3	0.135	63.1	6 x 5/16" x 299.7	6 x 3/8" x 299.6
	10.3/10.3	0.135	240.0		
RF3-4	9.3/ 9.3	0.500	14.3	6 x 5/16" x 18.7	6 x 3/8" x 197.9
	9.3/ 9.3	0.164	197.9	6 x 5/16" x 209.2	



RIGID FRAME ELEVATION: FRAME LINE 2 3 4

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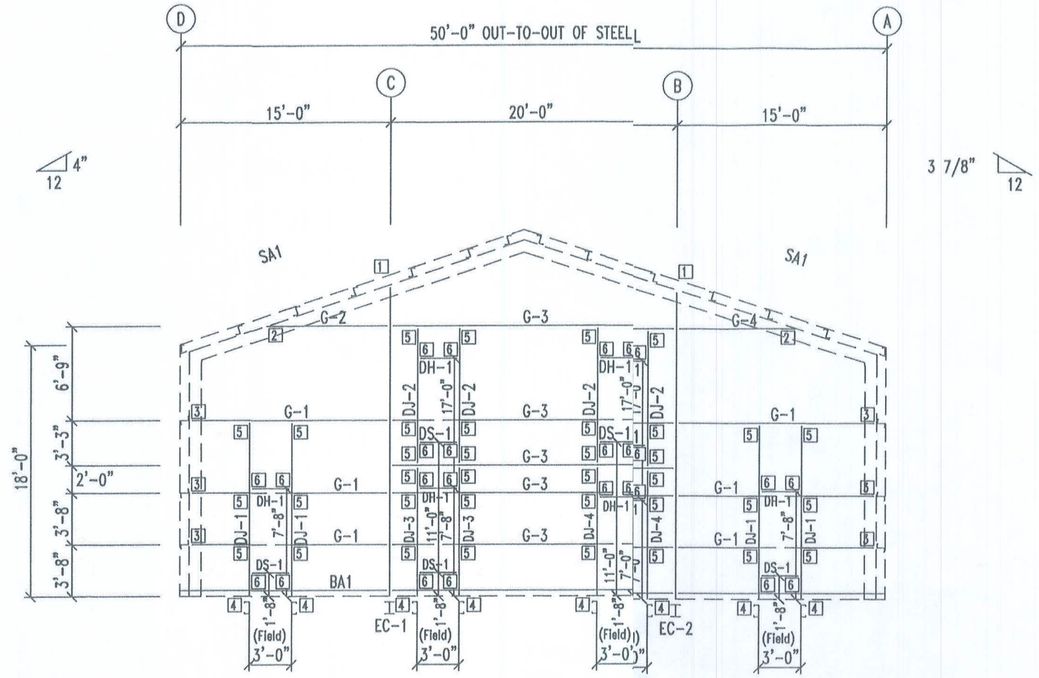
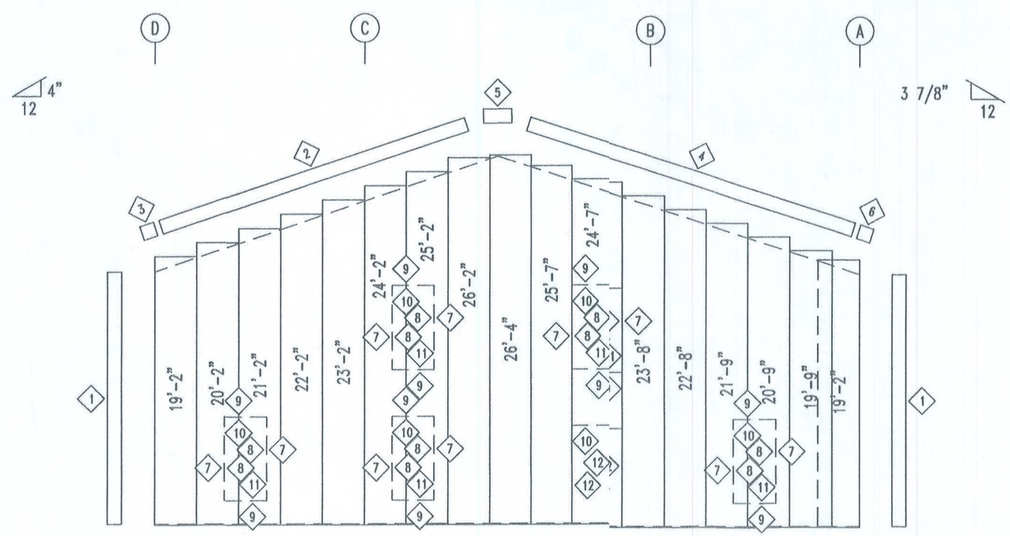
DESCRIPTION: CROSS SECTION					
CUSTOMER:				PROJECT: McCauley Residence	
LOCATION: Milton, FL 32583					
DRN. BY	CK'D BY	DATE 7/21/20	SCALE N.T.S.	REV. 00	QUOTATION NO. 20-375	SHEET NO. 9 of 15



ENDWALL FRAMING: FRAME LINE 1



ENDWALL SHEETING & TRIM: FRAME LINE 1

PANELS: 26 Ga. PBR – Need Std. Color

BOLT TABLE
FRAME LINE 1

LOCATION	QUAN	TYPE	DIA	LENGTH
Columns/Raf	10	A325	5/8"	1 1/4"

MEMBER TABLE
FRAME LINE 1

MARK	PART	LENGTH
EC-1	W8X10	22'-2 1/2"
EC-2	W8X10	22'-0 9/16"
DJ-1	8X35C16	12'-2 3/4"
DJ-2	8X35C16	9'-[illegible]"
DJ-3	8X35C16	8'-11 3/4"
DJ-4	8X35C16	8'-11 3/4"
DH-1	8X25C16	2'-11 1/2"
DS-1	8X25C16	2'-11 1/2"
G-1	8X25Z12	13'-11 3/4"
G-2	8X25Z12	8'-[illegible] 15/16"
G-3	8X35Z12	19'-4"
G-4	8X25Z12	8'-[illegible] 1/2"

TRIM TABLE
FRAME LINE 1

◇ ID	PART	LENGTH
1	FL-110	18'-0"
2	FL-21	15'-11"
3	FL-21L	11'-2"
4	FL-21	16'-9"
5	FL-23	1'-4"
6	FL-21R	11'-2"
7	FL-55	6'-4"
8	FL-48	6'-3"
9	FL-55	3'-4"
10	FL-52	3'-4"
11	FL-53	3'-4"
12	FL-48	7'-3"

CONNECTION PLATES
FRAME LINE 1

□ ID	MARK/PART
1	CL-[illegible]8
2	CL-[illegible]1
3	CL-[illegible]4
4	CL-104
5	CL-103
6	CL-100

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8-4-20

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120 Connor St NE
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Ph. 800-231-0026
www.apex-mbs.com

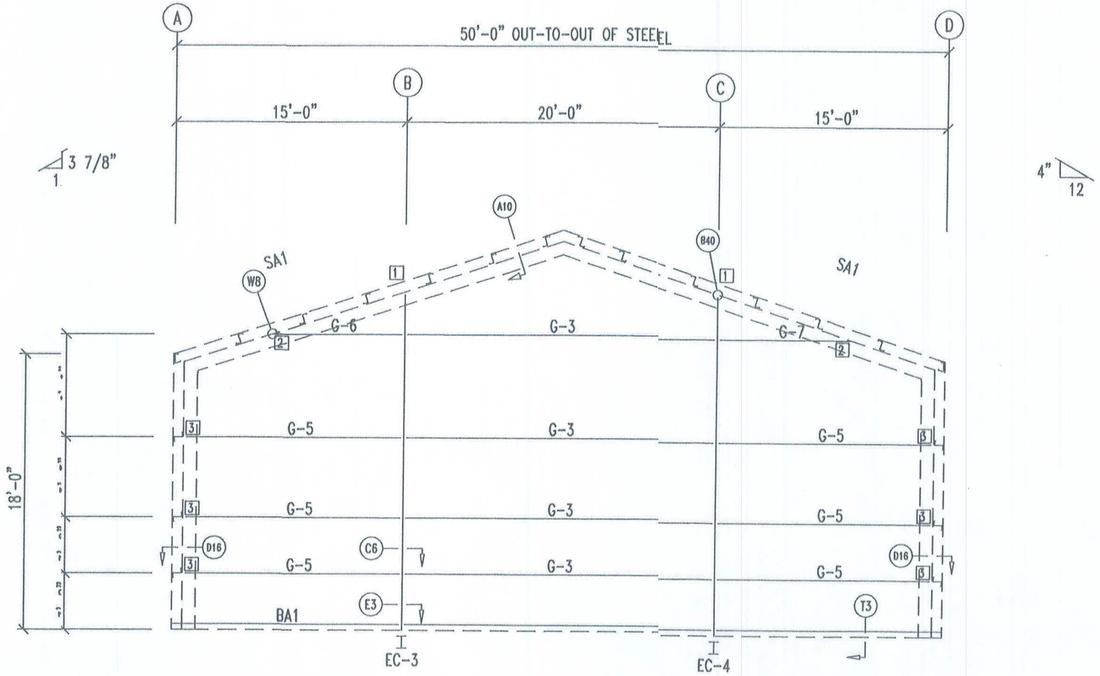
DESCRIPTION: ENDWALL ELEVATION

CUSTOMER:

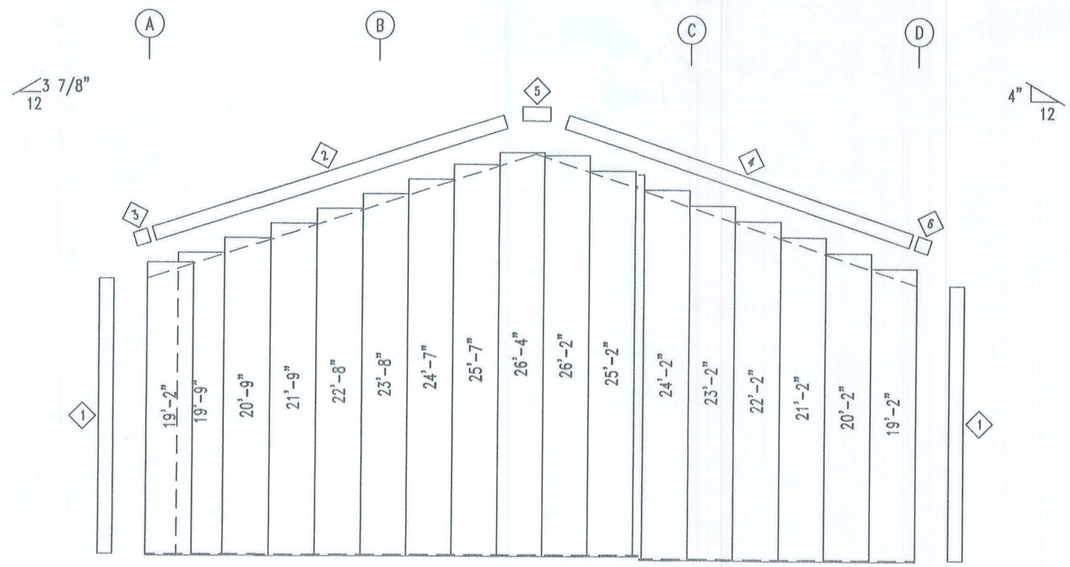
PROJECT: McCauley Residence

LOCATION: Milton, FL 32583

DRN. BY	CK'D BY	DATE	SCALE	REV.	QUOTATION NO.	SHEET NO.
		7/21/20	N.T.S.	00	20-375	10 of 15



ENDWALL FRAMING: FRAME LINE 5



ENDWALL SHEETING & TRIM: FRAME LINE 5

PANELS: 26 Ga. PBR - Need Std. Color

BOLT TABLE
FRAME LINE 5

LOCATION	QUAN	TYPE	DIA	LENGTH
Columns/Raf	10	A325	5/8"	1 1/4"

MEMBER TABLE
FRAME LINE 5

MARK	PART	LENGTH
EC-3	W8X13	22'-0 9/16"
EC-4	W8X13	22'-2 1/2"
G-3	8X35Z12	19'-4"
G-5	8X25Z14	13'-11 3/4"
G-6	8X25Z14	8'-5 1/2"
G-7	8X25Z14	8'-5 15/16"

TRIM TABLE
FRAME LINE 5

◇ID	PART	LENGTH
1	FL-110	18'-0"
2	FL-21	16'-9"
3	FL-21L	11'-2"
4	FL-21	15'-11"
5	FL-23	1'-4"
6	FL-21R	11'-2"

CONNECTION PLATES
FRAME LINE 5

□ID	MARK/PART
1	CL-38
2	CL-61
3	CL-64

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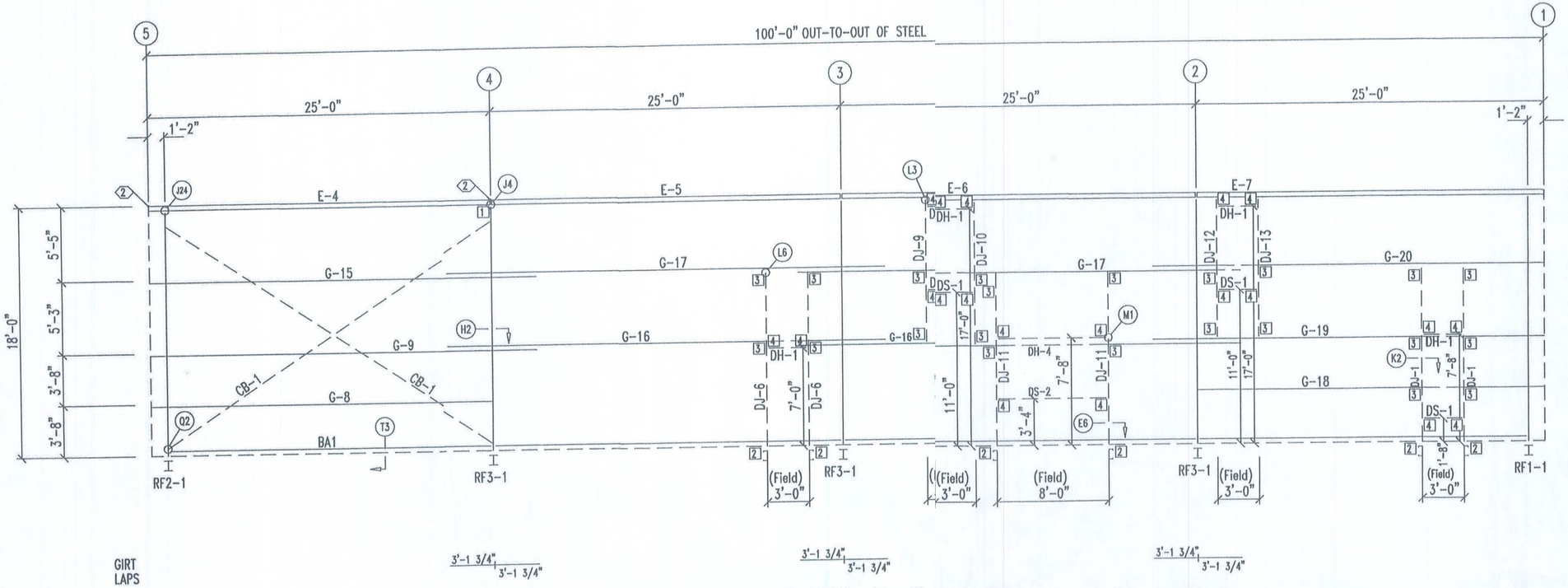
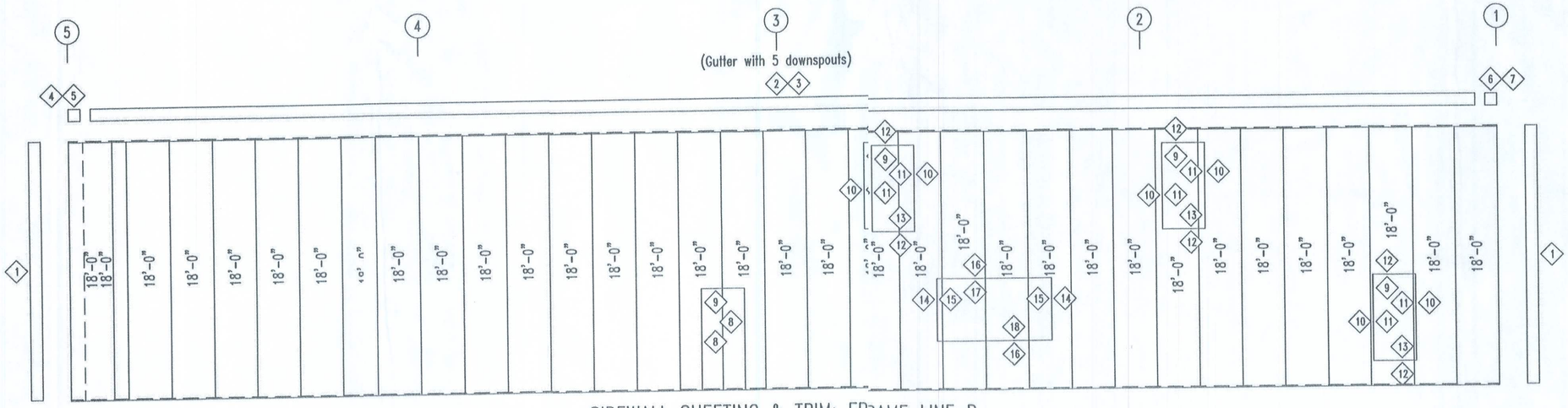
DESCRIPTION: ENDWALL ELEVATION						
CUSTOMER:					PROJECT: McCauley Residence	
LOCATION: Milton, FL 32583						
DRN. BY	CK'D BY	DATE 7/21/20	SCALE N.T.S.	REV. 00	QUOTATION NO. 20-375	SHEET NO. 11 of 15



SIDEWALL FRAMING: FRAME LINE D



SIDEWALL SHEETING & TRIM: FRAME LINE D

PANELS: 26 Ga. PBR – Need Std. Color

SPECIAL BOLTS					
○ ID	QUAN	TYPE	DIA	LENGTH	WASH
2	4	A307	1/2"	1 1/4"	0

MEMBER TABLE FRAME LINE D		
MARK	PART	LENGTH
DJ-1	8X35C16	12'-2 3/4"
DJ-6	8X35C16	12'-2 3/4"
DJ-9	8X35C14	9'-9 1/8"
DJ-10	8X35C14	9'-9 1/8"
DJ-11	8X35C14	12'-2 3/4"
DJ-12	8X35C16	9'-9 1/8"
DJ-13	8X35C16	9'-9 1/8"
DH-1	8X25C16	2'-11 1/2"
DH-4	8X25C16	7'-11 1/2"
DS-1	8X25C16	2'-11 1/2"
DS-2	8X25C16	7'-11 1/2"
E-4	8.50E12	24'-11 1/2"
E-5	8.50E12	24'-11 1/2"
E-6	8.50E14	24'-11 1/2"
E-7	8.50E14	24'-11 1/2"
G-8	8X25Z12	25'-3 1/2"
G-9	8X25Z12	28'-1 1/2"
G-15	8X35Z14	28'-1 1/2"
G-16	8X25Z16	31'-3 1/2"
G-17	8X35Z14	31'-3 1/2"
G-18	8X25Z16	25'-3 1/2"
G-19	8X25Z16	28'-1 1/2"
G-20	8X35Z12	28'-1 1/2"
CB-1	CB0500	29'-4'

TRIM TABLE FRAME LINE D		
◇ID	PART	LENGTH
1	FL-110	18'-0'
2	FL-32	20'-2'
3	FL-31	20'-2'
4	FL-32L	11'-2'
5	FL-33L	8"
6	FL-32R	11'-2'
7	FL-33R	8"
8	FL-48	7'-3"
9	FL-52	3'-4"
10	FL-55	6'-4"
11	FL-48	6'-3"
12	FL-55	3'-4"
13	FL-53	3'-4"
14	FL-55	4'-8"
15	FL-48	4'-7"
16	FL-55	8'-4"
17	FL-52	8'-4"
18	FL-53	8'-4"

CONNECTION PLATES FRAME LINE D	
□ID	MARK/PART
1	CL-114
2	CL-114
3	CL-113
4	CL-110

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8-4-20

APEX METAL BUILDING SYSTEMS
120 Connor St NE
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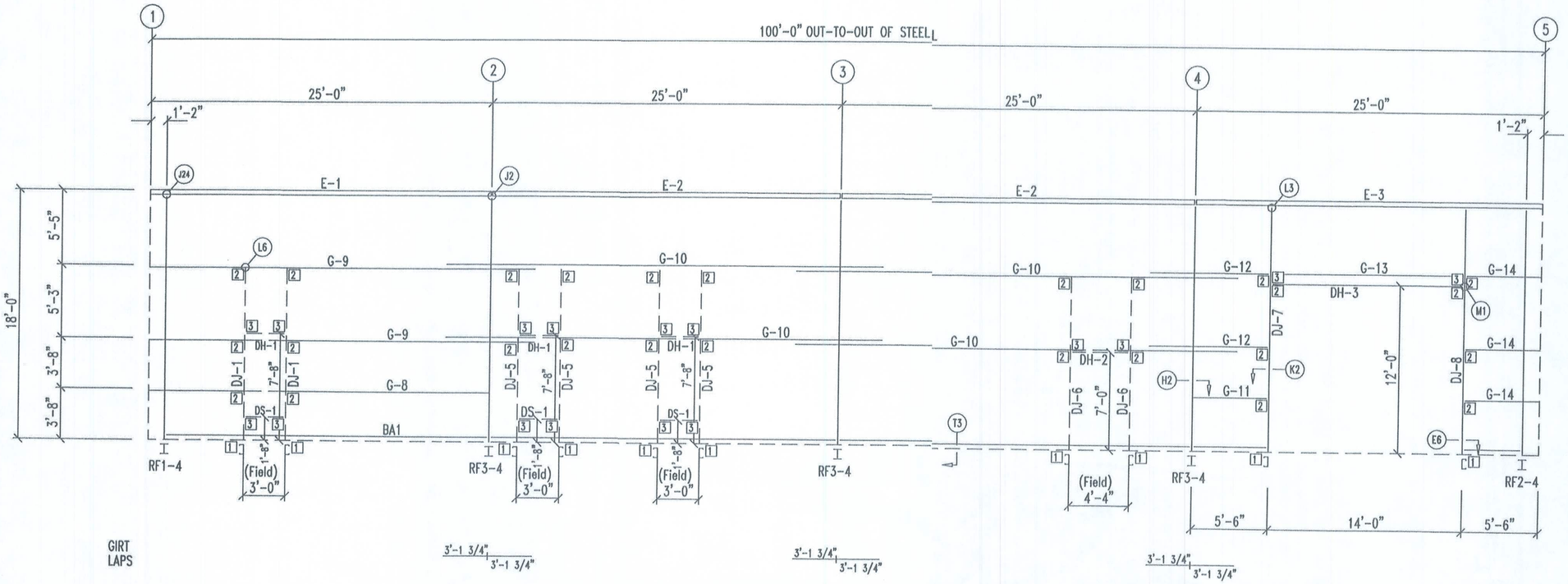
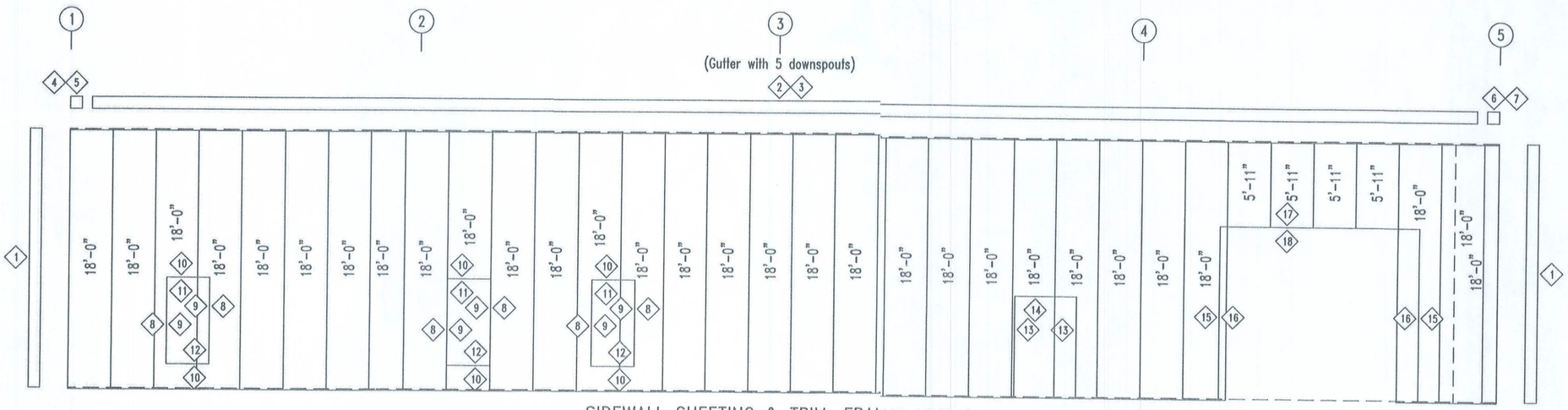
Ph. 800-231-0026
www.apex-mbs.com

DESCRIPTION: SIDEWALL ELEVATION						
CUSTOMER:					PROJECT: McCauley Residence	
LOCATION: Milton, FL 32583						
DRN. BY	CK'D BY	DATE 7/21/20	SCALE N.T.S.	REV. 00	QUOTATION NO. 20-375	SHEET NO. 12 of 15



SIDEWALL FRAMING: FRAME LLINE A



SIDEWALL SHEETING & TRIM: FRAME LINE A

PANELS: 26 Ga. PBR - Need Std. Color

MEMBER TABLE
FRAME LINE A

MARK	PART	LENGTH
DJ-1	8X35C16	12'-2 3/4"
DJ-5	8X35C16	12'-2 3/4"
DJ-6	8X35C16	12'-2 3/4"
DJ-7	8X35C12	17'-5 5/8"
DJ-8	8X35C12	17'-5 5/8"
DH-1	8X25C16	2'-11 1/2"
DH-2	8X25C16	4'-3 1/2"
DH-3	8X25C16	13'-11 1/2"
DS-1	8X25C16	2'-11 1/2"
E-1	8.50E14	24'-11 1/2"
E-2	8.50E14	24'-11 1/2"
E-3	8.50E14	24'-11 1/2"
G-8	8X25Z12	25'-3 1/2"
G-9	8X25Z12	28'-1 1/2"
G-10	8X25Z12	31'-3 1/2"
G-11	8X25Z16	5'-5 3/4"
G-12	8X25Z16	8'-3 3/4"
G-13	8X25Z16	13'-4"
G-14	8X25Z16	5'-1 3/4"

TRIM TABLE
FRAME LINE A

◇ID	PART	LENGTH
1	FL-110	18'-0"
2	FL-32	20'-2"
3	FL-31	20'-2"
4	FL-32L	11'-2"
5	FL-33L	8"
6	FL-32R	11'-2"
7	FL-33R	8"
8	FL-55	6'-4"
9	FL-48	6'-3"
10	FL-55	3'-4"
11	FL-52	3'-4"
12	FL-53	3'-4"
13	FL-48	7'-3"
14	FL-52	4'-8"
15	FL-55	12'-2"
16	FL-48	12'-3"
17	FL-55	14'-4"
18	FL-52	14'-4"

CONNECTION PLATES
FRAME LINE A

□ID	MARK/PART
1	CL-104
2	CL-103
3	CL-100

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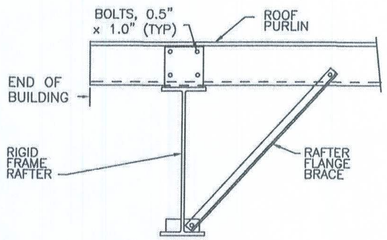
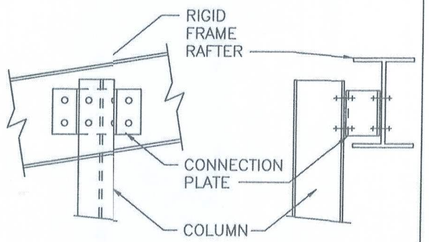
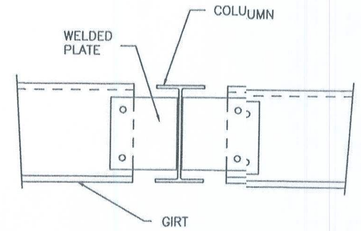
DESCRIPTION: SIDEWALL ELEVATION						
CUSTOMER:					PROJECT: McCauley Residence	
LOCATION: Milton, FL 32583						
DRN. BY	CK'D BY	DATE 7/21/20	SCALE N.T.S.	REV. 00	QUOTATION NO. 20-375	SHEET NO. 13 of 15



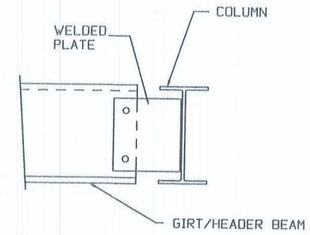
A10 ROOF PURLIN TO EXPANDABLE ENDWALL RIGID FRAME



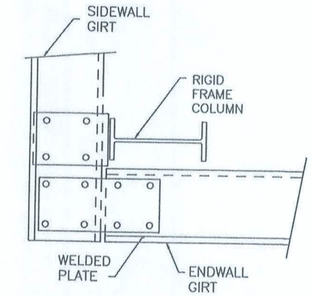
B40 R/W OLUMN TO RIGID FRAME RAFTER



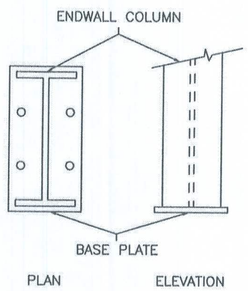
C6 GIRT TO COLUMN



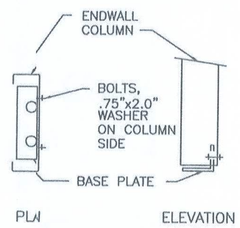
C15 GIRT/HEADER BEAM TO R/W COLUMN



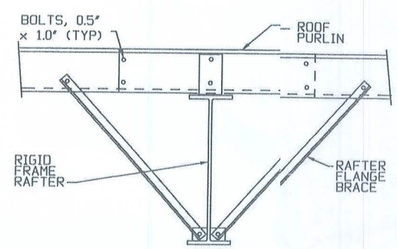
D16 CORNER COLUMN TO WALL GIRT



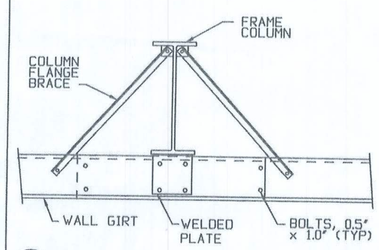
E3 BASE PLATE FOR ENDWALL COLUMN



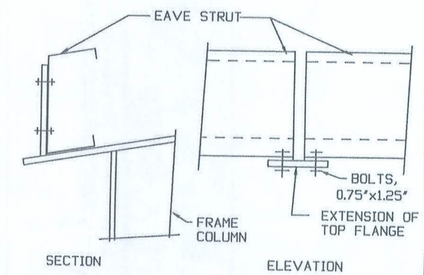
E6 BASEPLATE FOR ENDWALL COLUMN OR DOOR JAMB



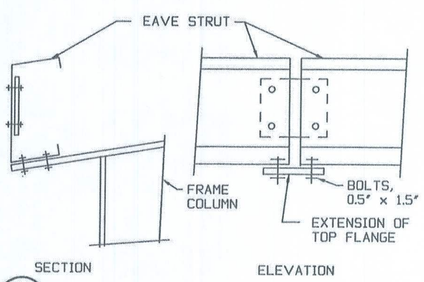
G2 ROOF PURLIN TO INTERIOR FRAME RAFTER



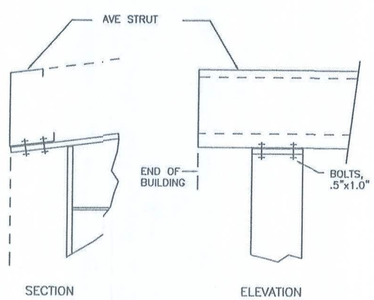
H2 WALL GIRT TO FRAME COLUMN



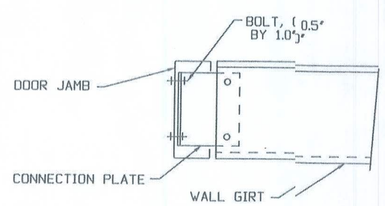
J2 EAVE STRUT TO RIGID FRAME



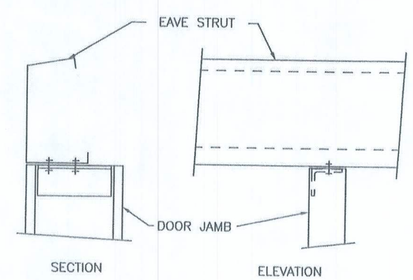
J4 EAVE STRUT TO RIGID FRAME



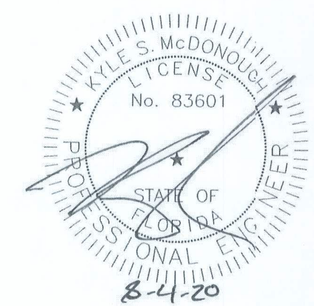
J24 EAVE STRUT TO RIGID FRAME



K2 WALL GIRT TO DOOR JAMB



L3 DOOR JAMB TO EAVE STRUT



APEX METAL BUILDING SYSTEMS
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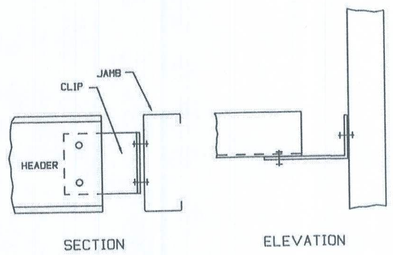
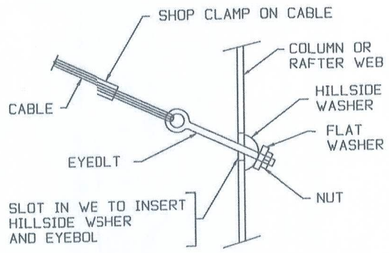
Ph. 800-231-0026
www.apex-mbs.com

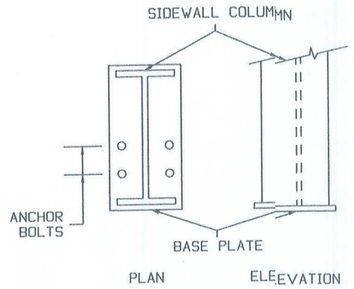
DESCRIPTION: DETAIL DRAWINGS						
CUSTOMER:					PROJECT: McCauley Residence	
LOCATION: Milton, FL 32583						
DRN. BY	CK'D BY	DATE 7/21/20	SCALE N.T.S.	REV. 00	QUOTATION NO. 20-375	SHEET NO. 4 of 15



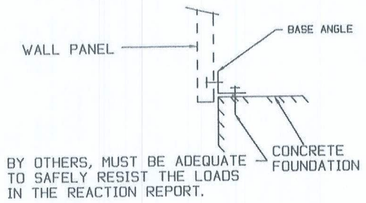
M1 HEADER TO C JAMB



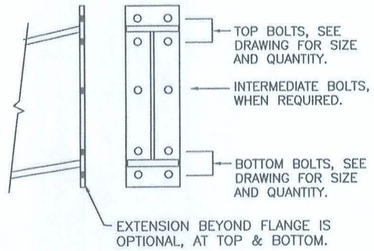
Q2 DIAGNAL CABLE, EYEBOLT END



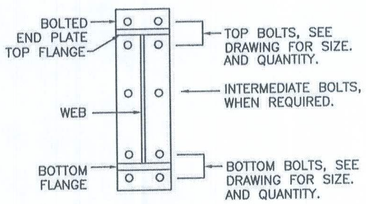
R2 ANCHOR BOLTS AT SIDE:WALL COLUMN



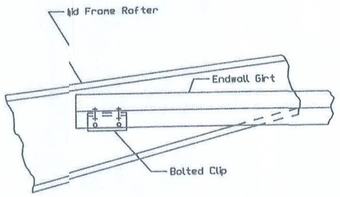
T3 SECTION THRU WALL PANEL AND CONCRETE FOUNDATION



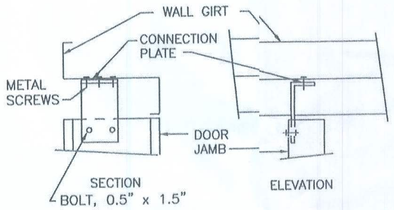
U2 BOLTED END PLATE CONNECTION AT BUILDING PEAK



U3 BOLTS FOR RAFTER TO COLUMN CONNECTION



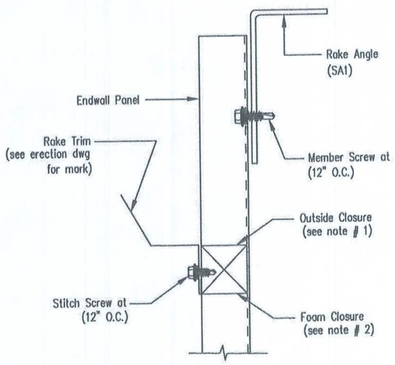
W8 SECTIN OF ENDWALL GIRT TO RAFTER



L6 DOOR JAMB TO WALLL GIRT

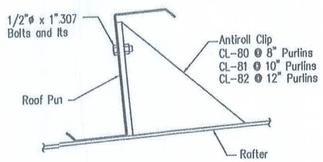
Note # 1: Outside panel closures are required on all sheeted endwalls with a roof slope of 2:12 or less.

Note # 2: 2x2 Foam Closure will replace the outside panel closures on all sheeted endwalls with a roof slope greater than 2:12.

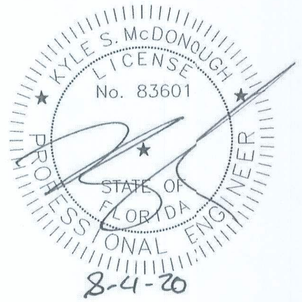


Endwall Panel Closure — DRAWING NO. TD205

Created On 3/9/11



Purlin t Antiroll Clip Connection — DRAWING NO. SD115



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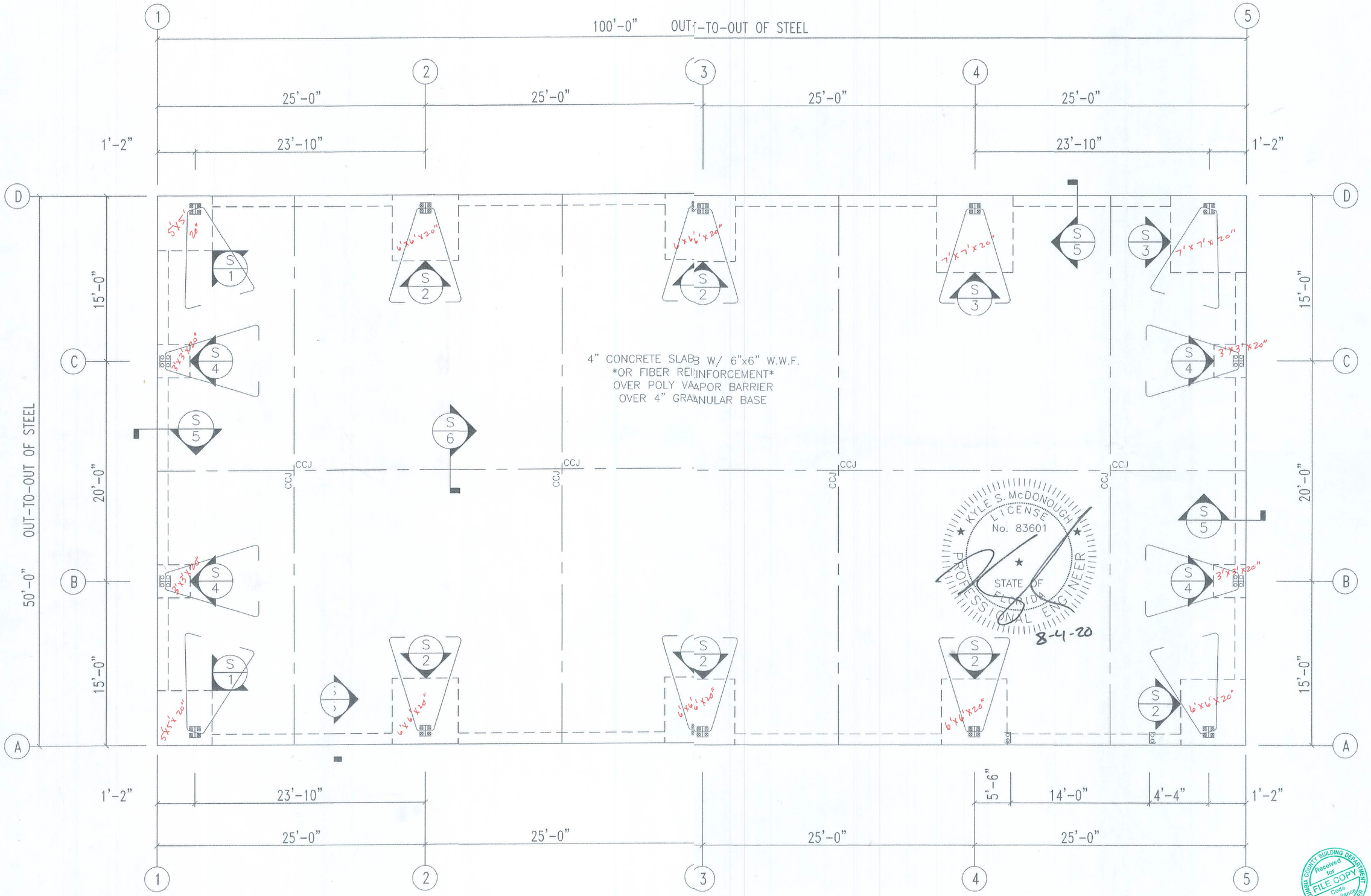

FOUNDATION PLAN

APEX METAL BUILDING SYSTEMS
118 Northeast Conner St.
LIVE OAK, FL 32406
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MCCAULEY RESIDENCE
MILTON, FL 32583
JOB NO. 20-375

DATE
JULY 29, 2020

SHEET
1 OF 3

DESIGN LOADS:

ROOF LIVE LOAD:	20 PSF	
ROOF DEAD LOAD		
SUPERIMPOSED:	2.0 PSF	
COLLATERAL:	0.0 PSF	
GROUND SNOW LOAD:	0.0 PSF	
FLAT ROOF SNOW LOAD:	0.0 PSF	
ULTIMATE WIND SPEED:	143 MPH	
WIND EXPOSURE CATEGORY:	B	
IMPORTANCE FACTOR:	WIND	1.00
	SEISMIC	1.00
	SNOW	1.00

SEISIIC DESIGN PARAMETERS:

SEIMIC USE GROUP:	II – NORMAL
SPCTRAL RESPONSE ACCELERATION:	S_S: --
	S_1: --
SIT CLASSIFICATION:	D
SEIMIC DESIGN CATEGORY:	--

LATE'AL DESIGN CONTROL:

ARTHQUAKE: ____

IND: X

CACULATED BUILDING DESIGN BASE SHEARS:

X= SEE METAL BLDG. DRAWINGS

Y= SEE METAL BLDG. DRAWINGS

FOUNDATIONS:

1. ASSUMED SOIL BEARING PRESSURE IS 2,000 PSF ON FIRM UNDISTRBED SOIL OR COMPACTED FILL MATERIAL. ALL CONC. FOOTINGS SHOULD EXTND BELOW FROST LINE PER LOCAL BUILING CODE.
2. FILL MATERIAL SHALL BE FREE OF ROOTS, WOOD, AND OTHER ORGNIC MATERIAL MATERIALS USED FOR FILL BELOW FOOTINGS AND WITHIN BUILDING_IMITS SHALL BE TESTED AND APPROVED FOR USE BY AN APPROVED TESTING AENCY.
3. FILL SHALL BE PLACED IN LIFTS NO GREATER THAN 8 INCHES ANDCOMPACTED TO 95 PERCENT OF THE OPTIMUM DENSITY AS DEFINED BY ASTM D-68.
4. PROOFROLLING SHALL BE CONDUCTED FOR BUILDING SUBGRADE USIG A FULLY LOADED DUMP TRUCK. PROOFROLLING SHALL BE CONDUCTED FOLLWING A SUITABLE PERIOD OF DRY WEATHER TO AVOID DEGRADING AN OTHBWISE ACCEPTABLE SUBGRADE.
5. UTILITY LINES SHALL NOT BE PLACED THROUGH BUILDING FOUNDATINS WITHOUT THE STRUCTURAL ENGINEER'S APPROVAL.

CONCRETE:

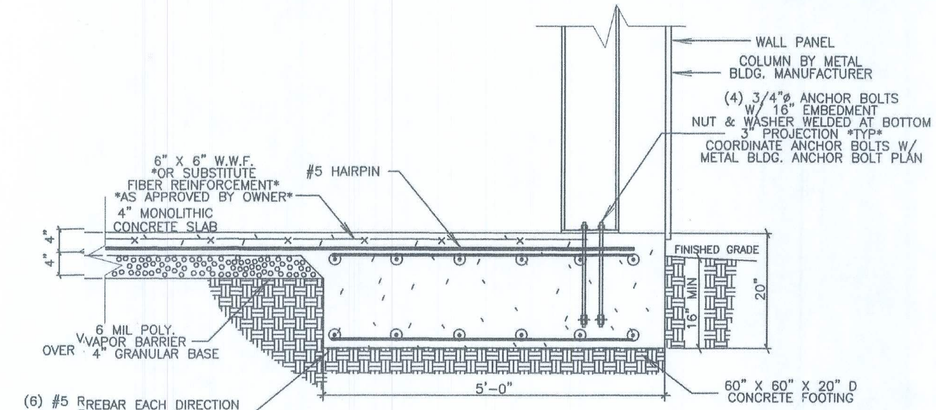
1. ALL CONCRETE CONSTRUCTION SHALL BE PERFORMED IN ACCORDANE WITH THE CURRENT ACI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE *AI 318-11*.
2. ALL CONCRETE SHALL HAVE ASTM C-33 AGGREGATE WITH MAXIMUMUNIT WEIGHT OF 150 PCF. CONCRETE COMPRESSIVE STRENGTH SHALL BE 3,000 PSAT 28 DAYS, MIN.

REINFORCING STEEL:

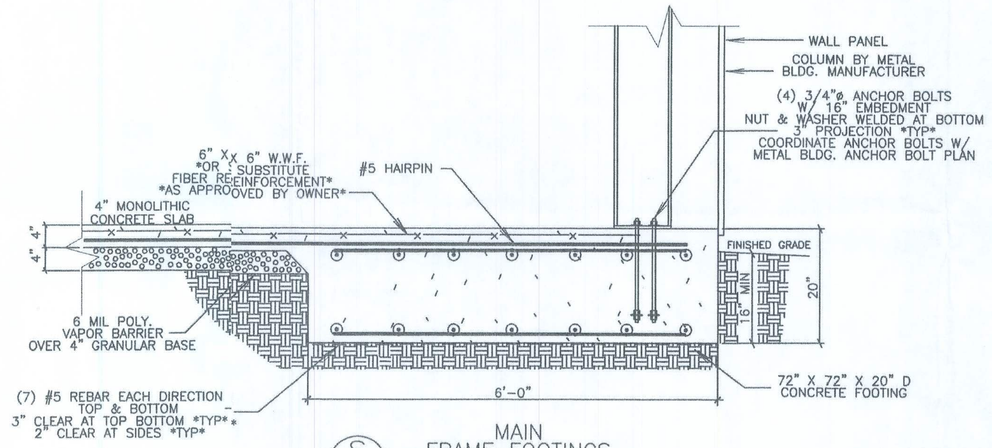
1. REINFORCING STEEL SHALL BE BILLET STEEL, DEFORMED BARS CONORMING TO ASTM A-615, GRADE 60.
2. CONCRETE COVERAGE OF REINFORCING STEEL SHALL BE IN ACCORENCE WITH THE FOLLOWING SCHEDULE UNLESS OTHERWISE NOTED:
   - A. FOOTINGS AND GRADE BEAMS — 3 INCHES
   - B. SLABS ON GRADE — 2 INCHES
3. REINFORCING STEEL SHALL BE LAPPED USING THE FOLLOWING SCHDULE:
   NO.4 = 25" NO.5 = 31" NO.6 = 37

GENERAL NOTES:

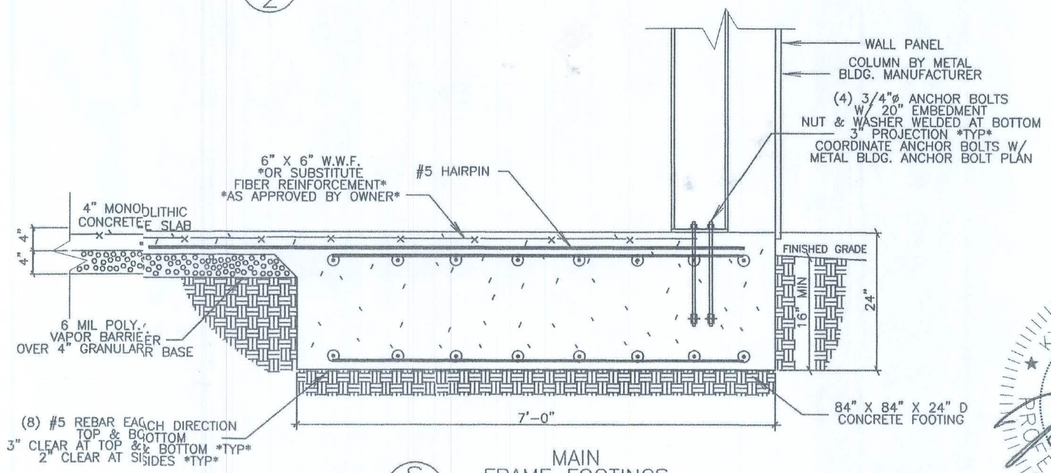
1. FINISHED FLOOR ELEVATION IS AT 100'-0" UNLESS OTHERWISE NOTD.
2. SLAB ON GRADE IS 4 INCH NORMAL WEIGHT CONCRETE WITH 6"X6"W1.4XW1.4 WELDED WIRE FABRIC OR FIBER REINFORCEMENT (AS APPROVED BY OWNER) ON 6 MIL VAPOR BARRIER AND 4 INCH GRANULAR BASE.
3. CONTROL JOINTS IN CONCRETE SLABS SHALL BE SAWCUT. CONSTRUTION JOINTS SHALL BE FORMED WITH KEYED METAL EDGE FORM MATERIAL OR EQUIVALENT.
4. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL NATIONL, STATE, AND LOCAL CODES AND REGULATIONS.
5. ALL DIMENSIONS SHOULD BE READ OR CALCULATED, NOT SCALED.
6. REFER TO METAL BUILDING DRAWINGS FOR SPECIFIC DETAILS AND IFORMATION.
7. REFER TO METAL BUILDING DRAWINGS FOR ALL ANCHOR BOLT SIZES AND LOCATIONS.
8. THE DESIGN OF THIS FOUNDATION WAS PREPARED IN ACCORDANCE ITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE – 2017 EDITION.
9. THE CONTRACTOR SHALL EXERCISE PROPER PRECAUTION TO VERIFY ALL EXISTING CONDITIONS AND LAYOUT OF WORK. IMMEDIATELY NOTIFY THE ENGIEER OF ANY DISCREPANCIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY ERRO RESULTING FROM FAILURE TO EXERCISE SUCH PRECAUTION.
10. ANY DISCREPANCIES, ERRORS OR OMISSIONS DISCOVERED IN THE DCUMENT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEDING WITH RELATED WORK. OTHERWISE, THE CORRECTION OF SUCH ITEMS IS THE RESPNSIBILITY OF THE CONTRACTOR OR SUBCONTRACTOR.
11. WHERE A DETAIL, TYPICAL DETAIL, SECTION, TYPICAL SECTION OR A IOTE IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE OR SIILAR CONDITIONS UNLESS OTHERWISE NOTED.



S/1 MAIN FRAME FOOTINGS



S/2 MAIN FRAME FOOTINGS



S/3 MAIN FRAME FOOTINGS

KYLE S. McDONOUGH
LICENSE No. 83601
STATE OF FLORIDA
PROFESSIONAL ENGINEER
8-4-20

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MCCAULEY RESIDENCE
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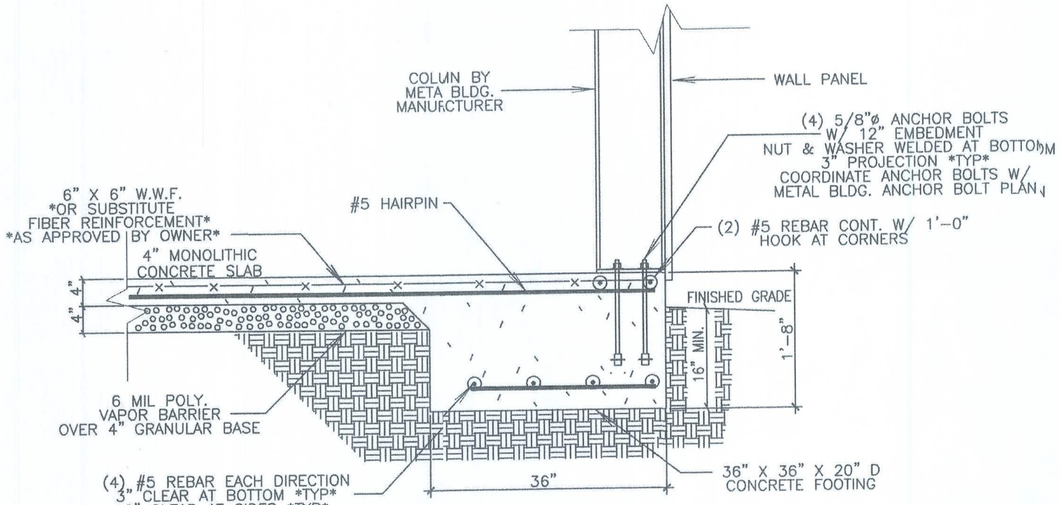
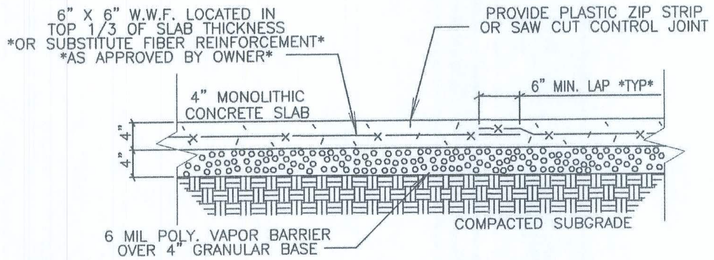
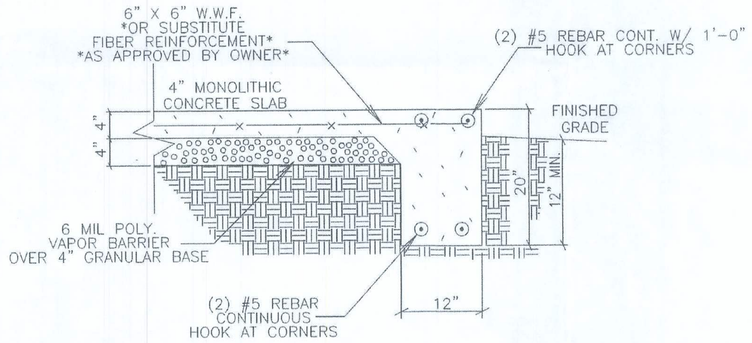
SHEET
2 OF 3



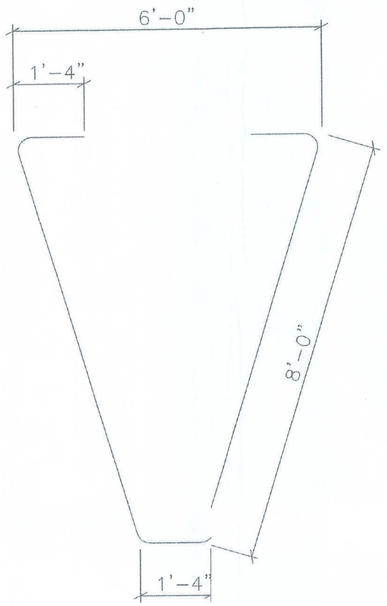
S/4 RAME LINES B&C ENDWALL COLUMNS



S/6 CONTROL JOINT

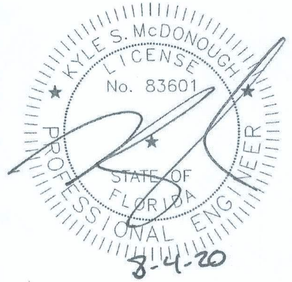


S/5 PERIMETER FOOTING



HAIRPIN BAR
BEND DIAGRAM

SCALE N.T.S.



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