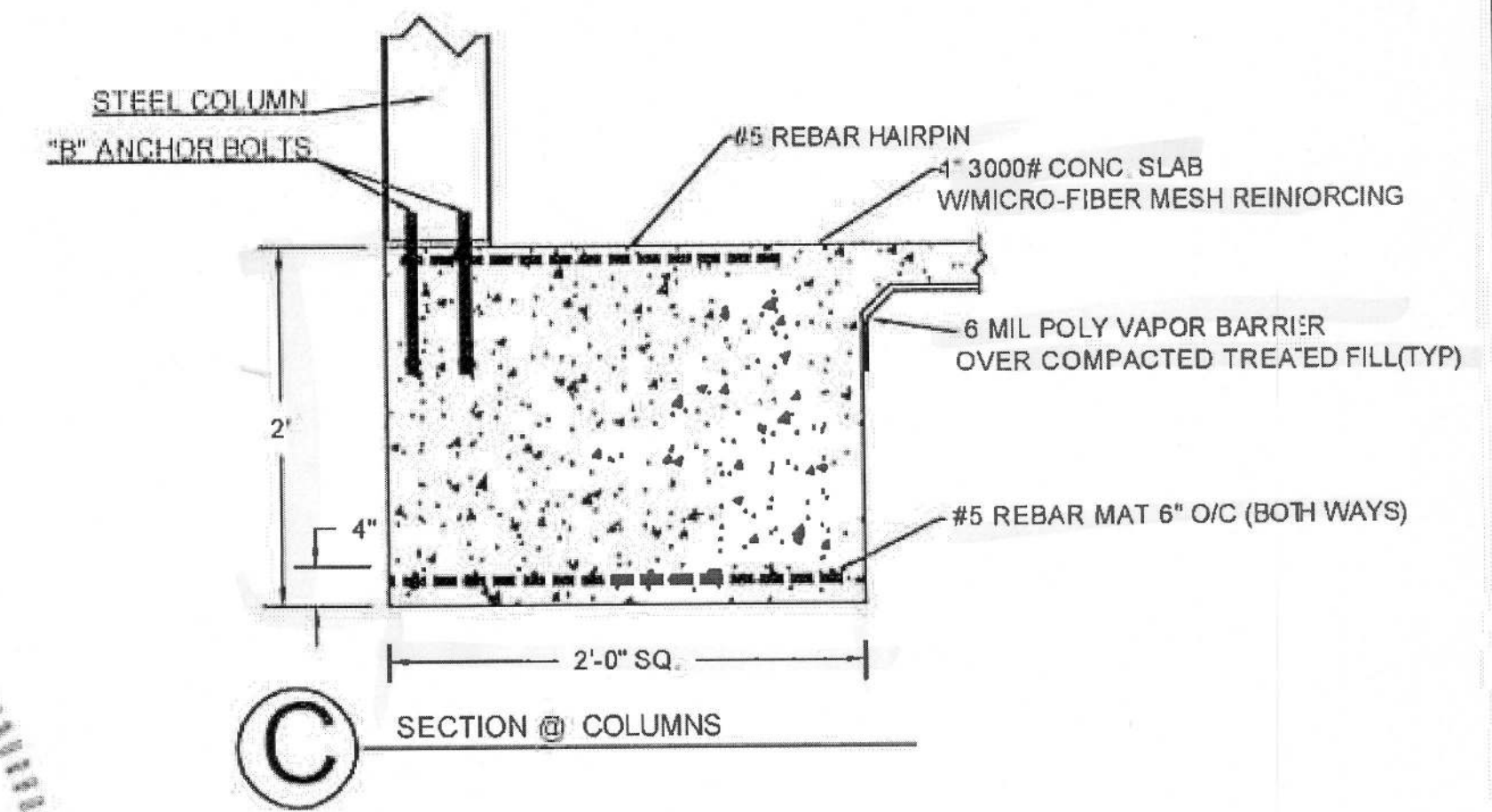
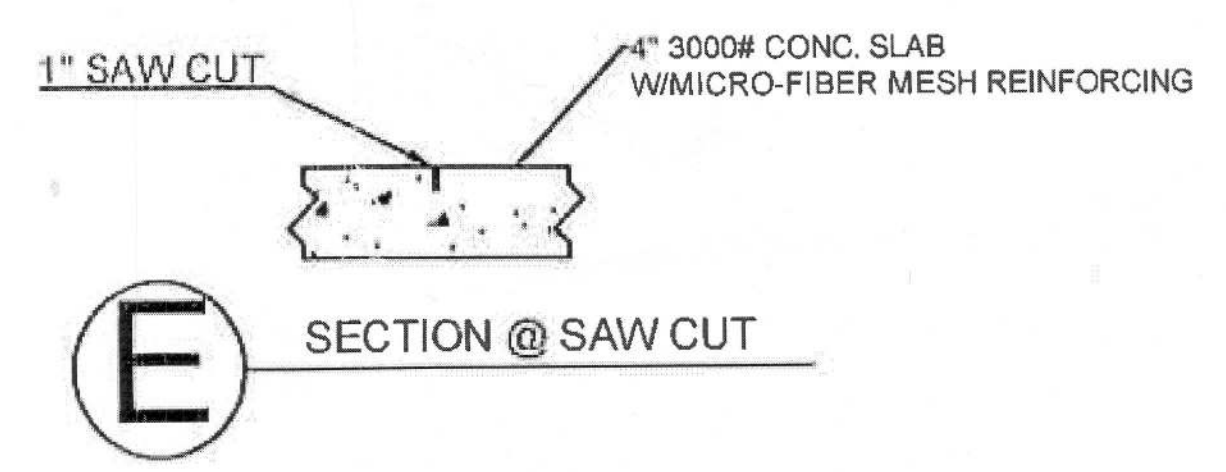
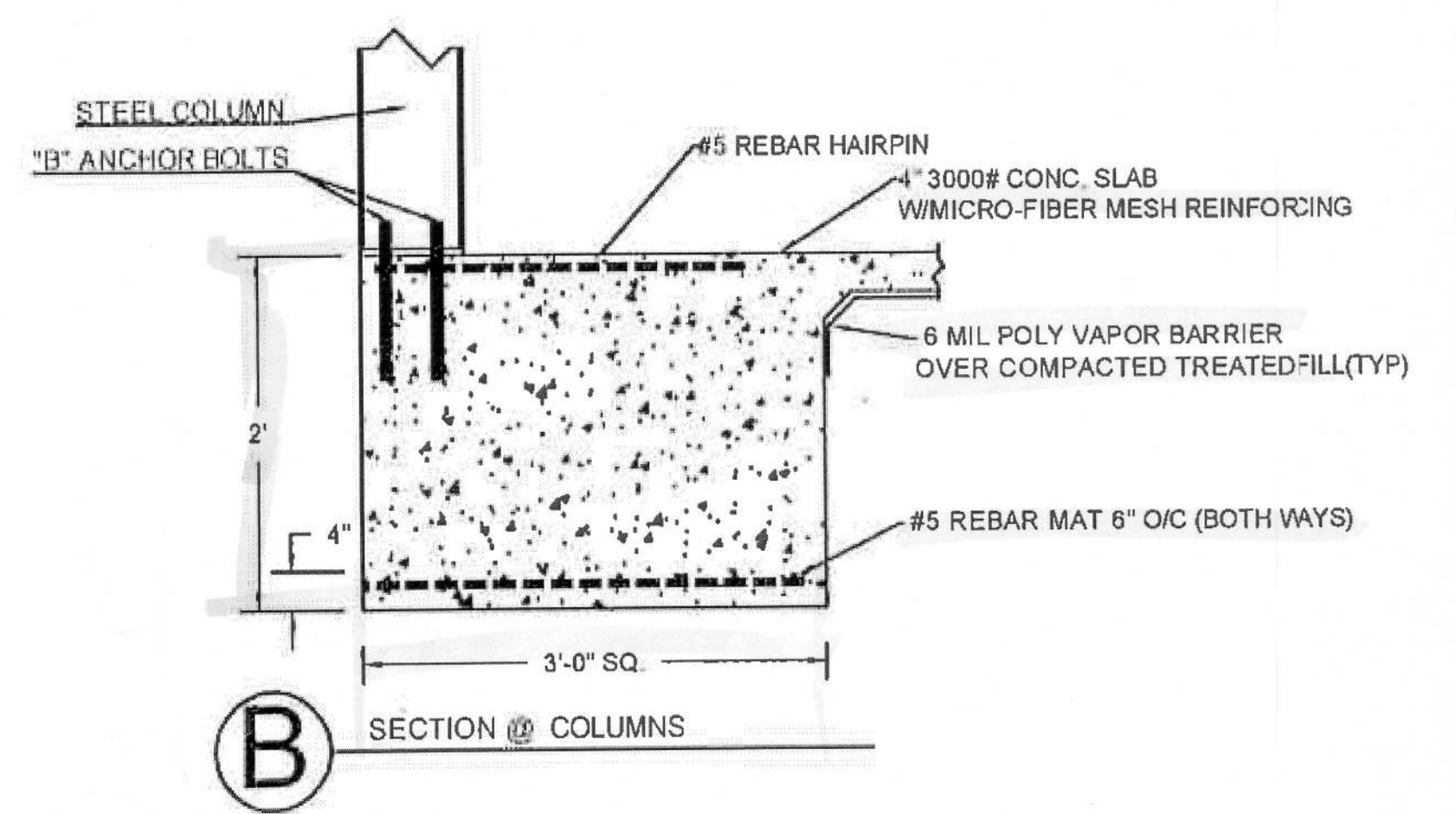
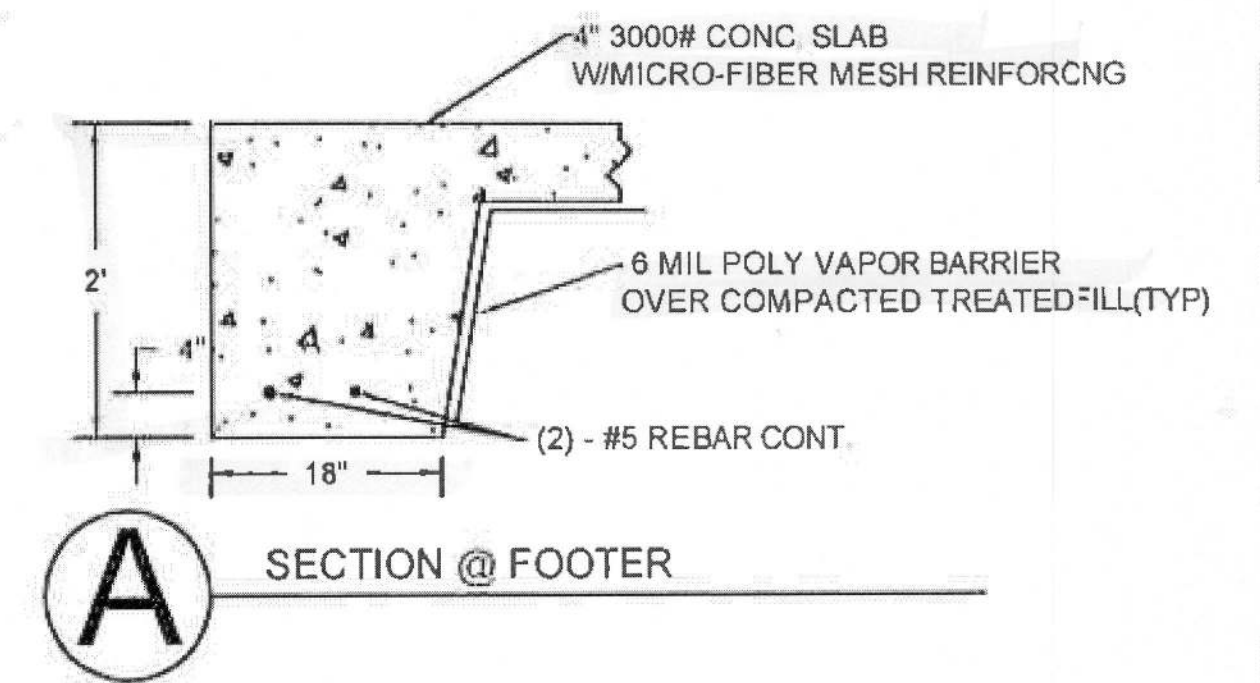
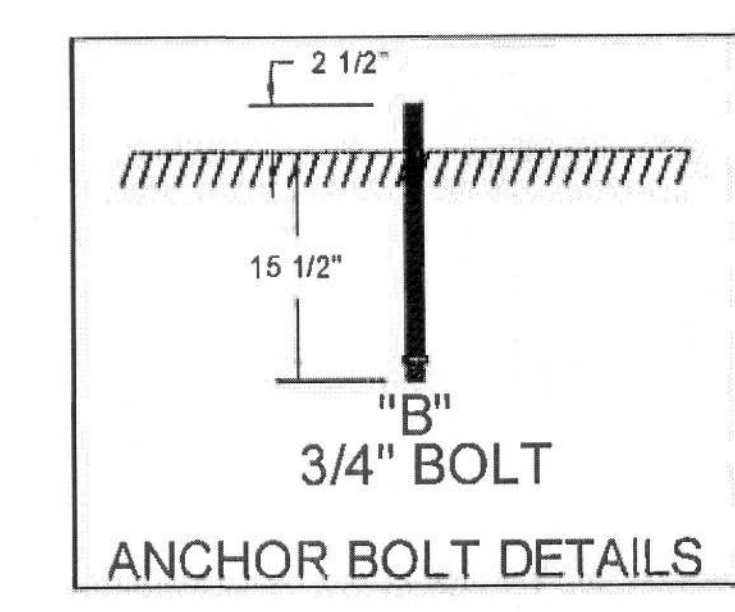
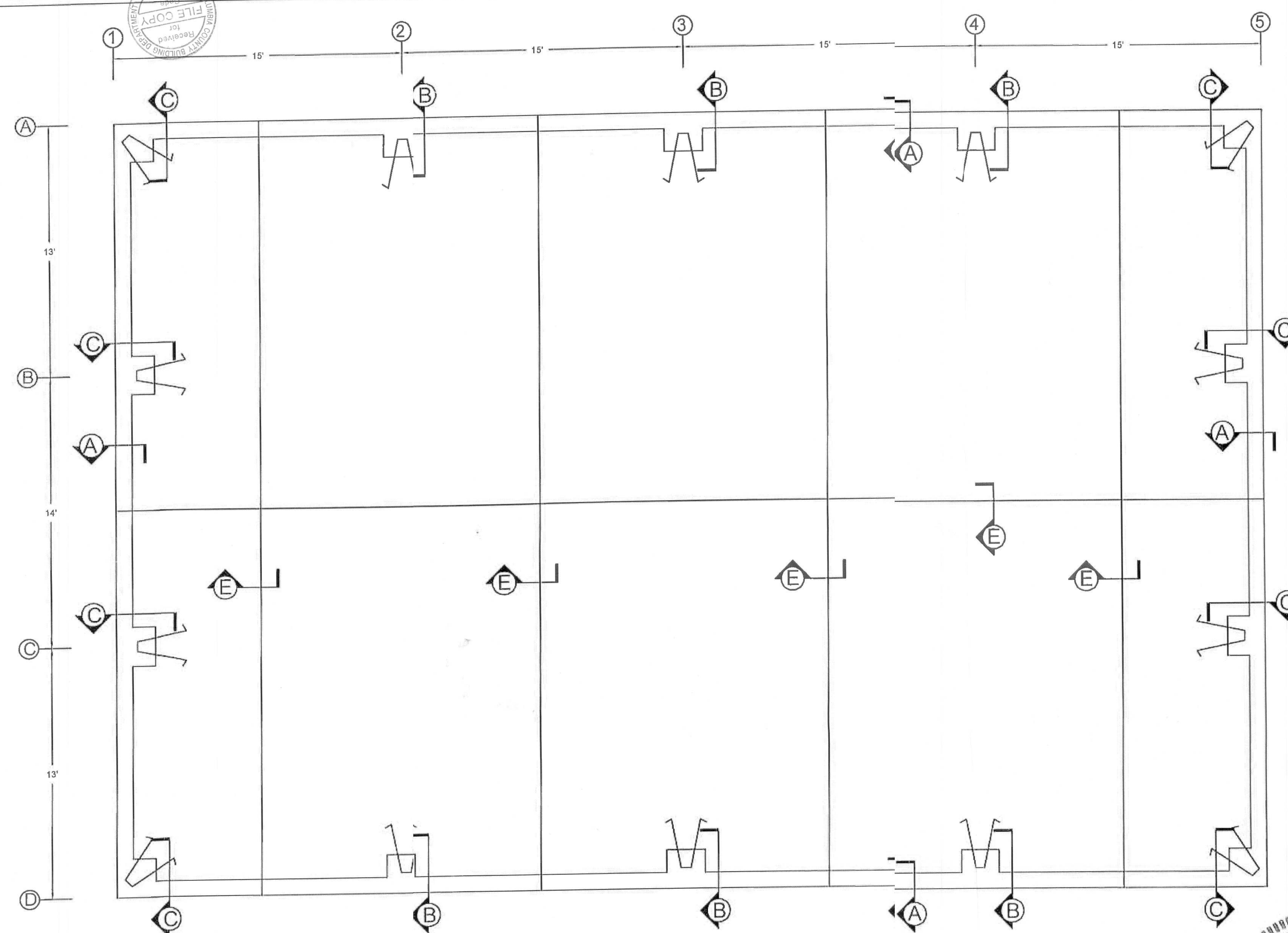
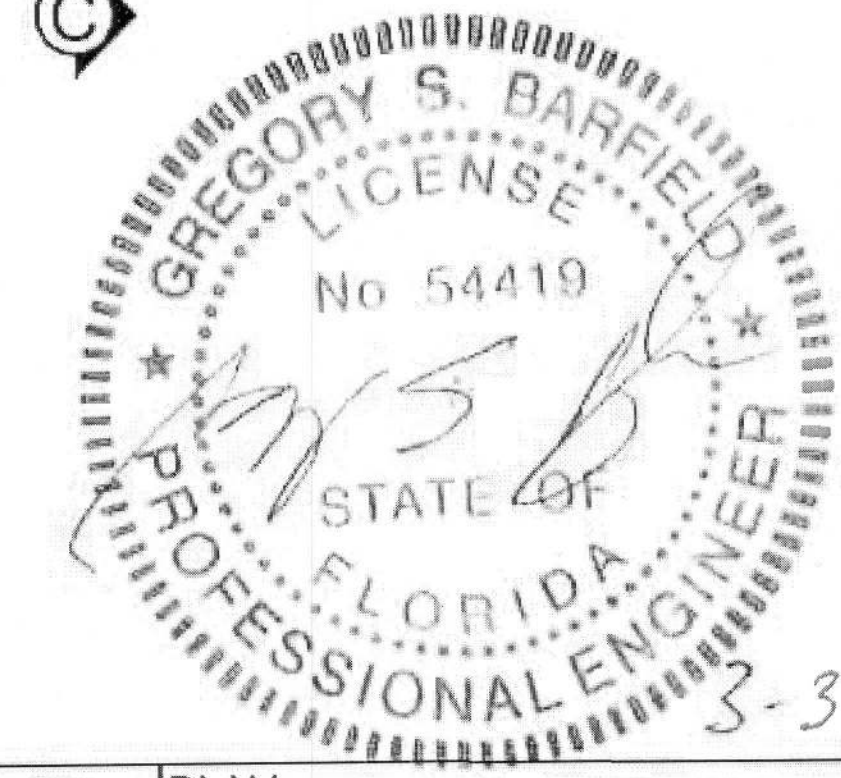




Gregory S. Barfield, P.E.
2149 Neil Purvis Road
Adel, GA 31620
P.E. # 54419

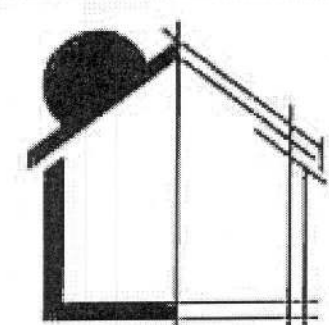
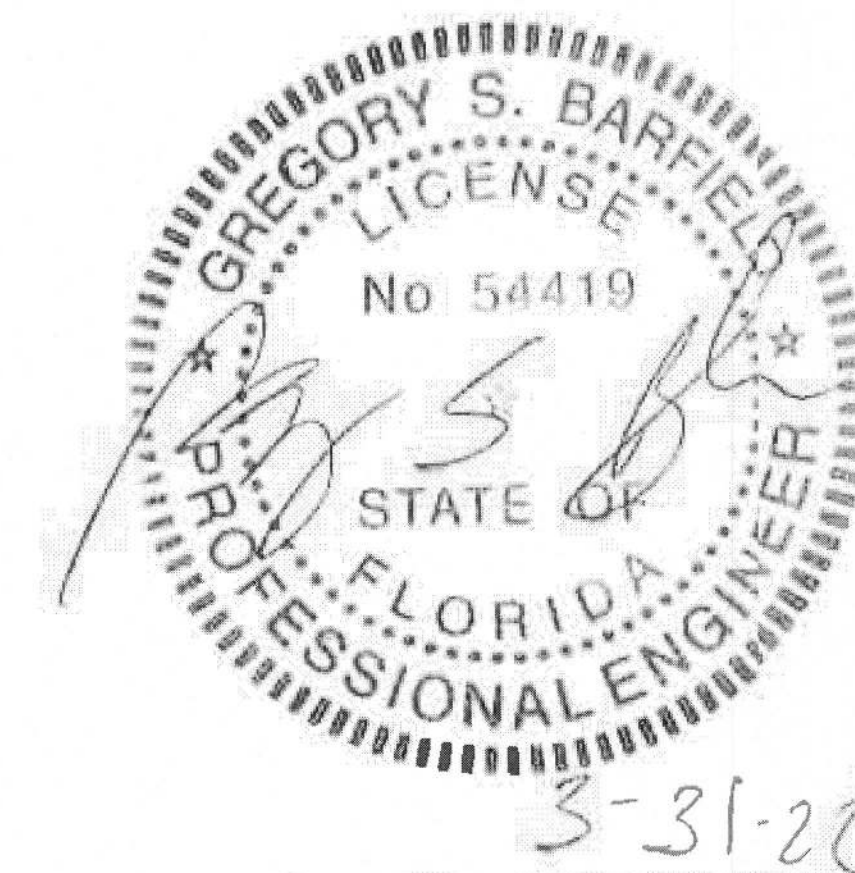
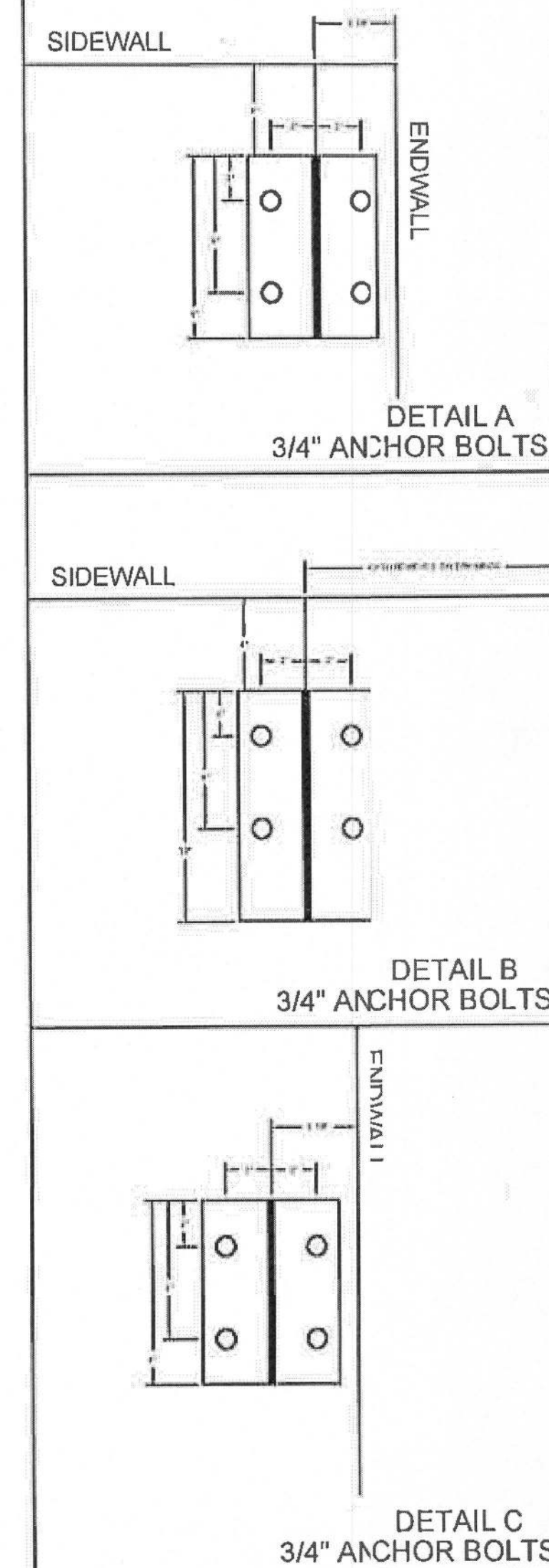
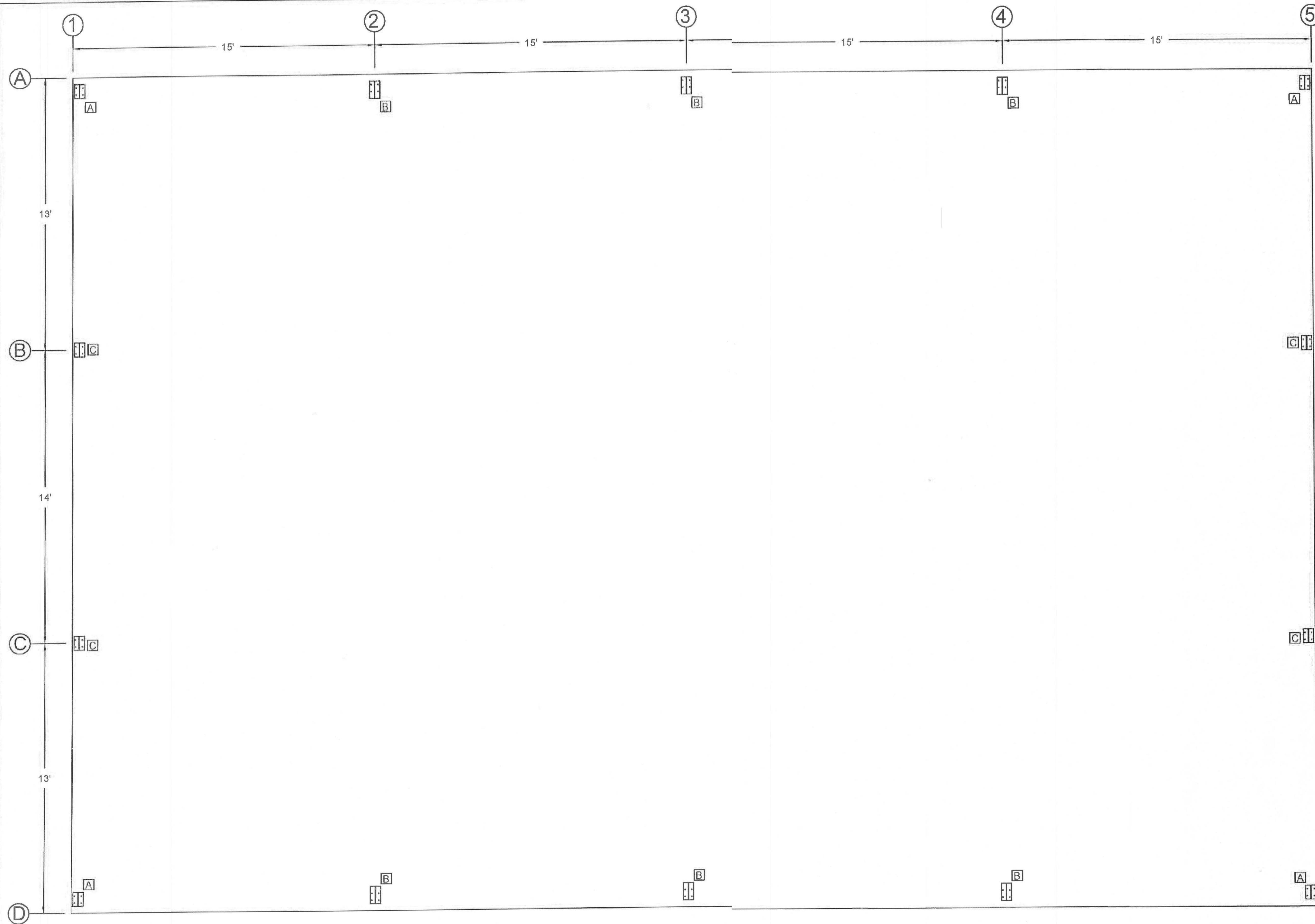


SCALE:	N.T.S.	DATE:	3/23/2022
DRAWN BY:	MH	SALESMAN:	MH
BUILDING SIZE:	40'X60'X12'		

REVISION	
DATE:	DESCRIPTION:

PLAN
FOUNDATION

JOB #	22-122
PAGE	1 OF 1



HARRELL STEEL BUILDINGS

Pre-Engineered Metal Buildings • Metal Roofing • Pole Barns

SCALE: N.T.S.

DATE: 3/23/2022

DRAWN BY: MH

SALESMAN: MH

BUILDING SIZE: 40'X60'X12'

REVISION

DATE: DESCRIPTION:

PLAN

ANCHOR BOLT PLAN

JOB #

22-122

PAGE

1 OF 12

Gregory S. Barfield, P.E.
2149 Nell Purnis Road
Adel, GA 31620
P.E. # 54419

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)	=	40.0
Length (ft)	=	80.0
Eave Height (ft)	=	12.0/ 12.0
Roof Slope (rise/run)	=	3.0/ 3.0
Dead Load (psf)	=	2.0
Collateral Load (psf)	=	0.5
Roof Live Load (psf)	=	20.0
Frame Live Load (psf)	=	12.0
Wind Speed (mph)	=	119.0
Wind Code	=	FBC 20 (BC 18)
Exposure	=	C
Closed/Open	=	C
Importance Wind	=	1.00
Importance Seismic	=	1.00
Seismic Zone	=	B
Seismic Coeff (F _a /S _s)	=	0.14

5. Loading conditions are:
 - 1 Dead+Collateral+Live
 - 2 0.8Dead+0.6Wind_Left1
 - 3 0.8Dead+0.6Wind_Right1
 - 4 0.8Dead+0.6Wind_Long1L
 - 5 0.8Dead+0.6Wind_Long2L
 - 6 0.8Dead+0.6Wind_Suction+0.6Wind_Long1L
 - 7 0.8Dead+0.6Wind_Pressure+0.6Wind_Long1L
 - 8 0.8Dead+0.6Wind_Left1+0.6Wind_Suction
 - 9 0.8Dead+0.6Wind_Right1+0.6Wind_Suction
 - 10 0.8Dead+0.6Wind_Pressure+0.6Wind_Long2L
 - 11 0.8Dead+0.6Wind_Suction+0.6Wind_Long2L

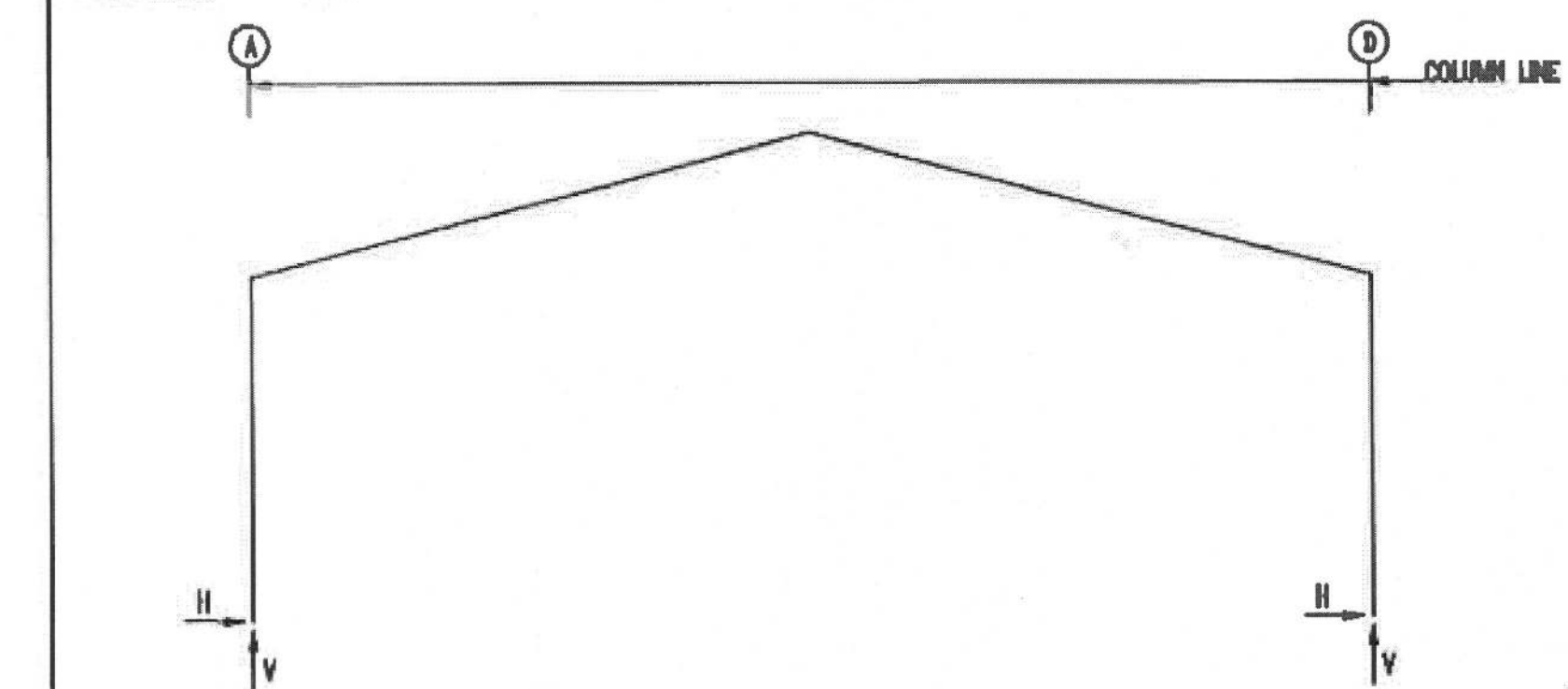
ANCHOR BOLT SUMMARY

Qty	Locate	Dia (in)	Type	Total Len (in)	Bend Len (in)	Proj (in)
18	Endwall	1/2"	F1554 GRADE 36	3.75	3.00	1.50
24	Frame	3/4"	F1554 GRADE 36			2.50

BUILDING BRACING REACTIONS

		Reactions (k)				Panel Shear (lb/ft)	
Loc	Line	Wind	Seismic	Wind	Seismic	Wind	Seismic
L_EW	1	2.3	0.1	0.1	0.1	27	5
F_SW	D	2.3	0.1	0.1	0.1	27	5
R_SW	A	2.3	0.1	0.1	0.1	27	5

FRAME LINES: 2 3 4



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

Frm Line	Col Line	Load Id	Column Reactions (k)		Hmin H	V Vmin	Bolt (in)	Qty	Dia	Base Plate (in)		Group (in)
			Hmax H	Vmax V						Width	Length	
2*	A	1	2.0	4.7	2	-2.1	-3.5	4	0.750	6.000	10.50	0.500
2*	D	3	2.1	-3.5	1	-2.0	4.7	4	0.750	6.000	10.50	0.500
2*		1	-2.0	4.7	5	0.4	-5.6					

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frm Line	Column Line	Dead		Collateral		Live		Wind Left		Wind Right		Wind Long2	
		Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
2*	A	0.4	1.0	0.1	0.2	1.6	3.6	-3.9	-4.8	-3.9	-4.8	0.1	-2.0
2*	D	-0.4	1.0	-0.1	0.2	-1.6	3.6	0.3	-4.8	3.9	-4.8	0.1	-2.0

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Dead	Collat	Wind Left1		Wind Right1		Wind Long1		Wind Long2		Wind Long3		Sole Left
				Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	
1	A	0.1	0.0	0.0	-1.2	-0.8	-0.6	-0.3	-0.8	1.1	-1.4	-1.0	0.0	0.0
1	B	0.3	0.1	2.3	-3.4	-2.3	-2.5	-1.4	-2.8	2.7	-1.8	-3.2	0.0	0.0
1	C	0.3	0.1	0.0	-0.8	-1.2	-0.3	-0.8	-0.9	1.1	-1.0	-1.4	0.0	0.0
1	D	0.1	0.0	0.0	0.0	-0.8	-0.6	-0.3	-0.8	1.1	-1.4	-1.0	0.0	0.0
5	C	0.3	0.1	2.3	-3.4	-2.3	-2.5	-1.4	-2.4	2.7	-1.8	-3.2	0.0	0.0
5	B	0.3	0.1	2.3	-3.4	-2.3	-2.5	-1.4	-2.4	2.7	-1.8	-3.2	0.0	0.0
5	A	0.1	0.0	0.0	0.0	-1.2	-0.3	-0.8	-0.9	1.1	-1.0	-1.4	0.0	0.0

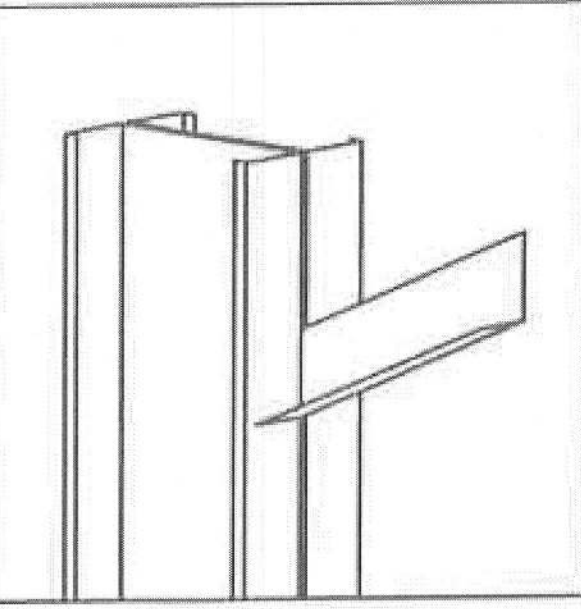
ENDWALL COLUMN: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Load Id	Column Reactions (k)		Hmin H	V Vmin	Bolt (in)	Qty	Dia	Base Plate (in)		Group (in)
			Hmax H	Vmax V						Width	Length	
1	A	8	0.6	-0.8	7	-0.8	-0.8	2	0.500	3.500	8.000	0.250
1	B	8	1.6	-1.8	7	-1.4	-1.7	2	0.500	3.500	8.000	0.250
1	C	9	1.8	-1.8	10	-1.4	-1.7	2	0.500	3.500	8.000	0.250
1	D	11	0.6	-0.8	10	-0.6	-0.8	2	0.500	3.500	8.000	0.250
5	D	6	0.6	-0.8	7	-0.8	-0.8	2	0.500	3.500	8.000	0.250
5	C	8	1.6	-1.8	7	-1.4	-1.7	2	0.500	3.500	8.000	0.250
5	B	9	1.8	-1.8	10	-1.4	-1.7	2	0.500	3.500	8.000	0.250
5	A	11	0.6	-0.8	10	-0.6	-0.8	2	0.500	3.500	8.000	0.250

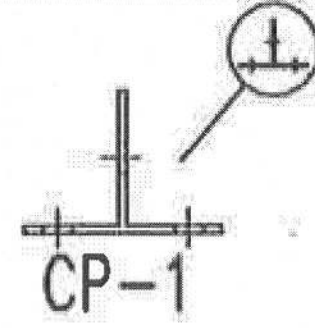
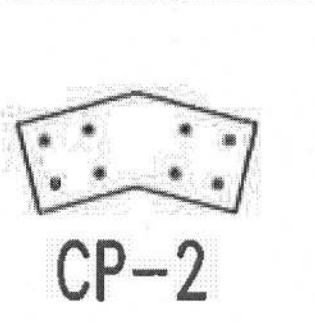
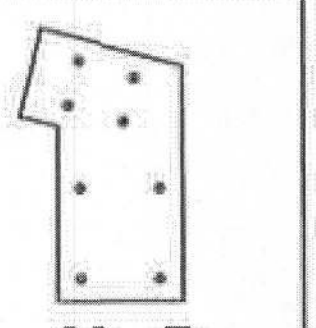


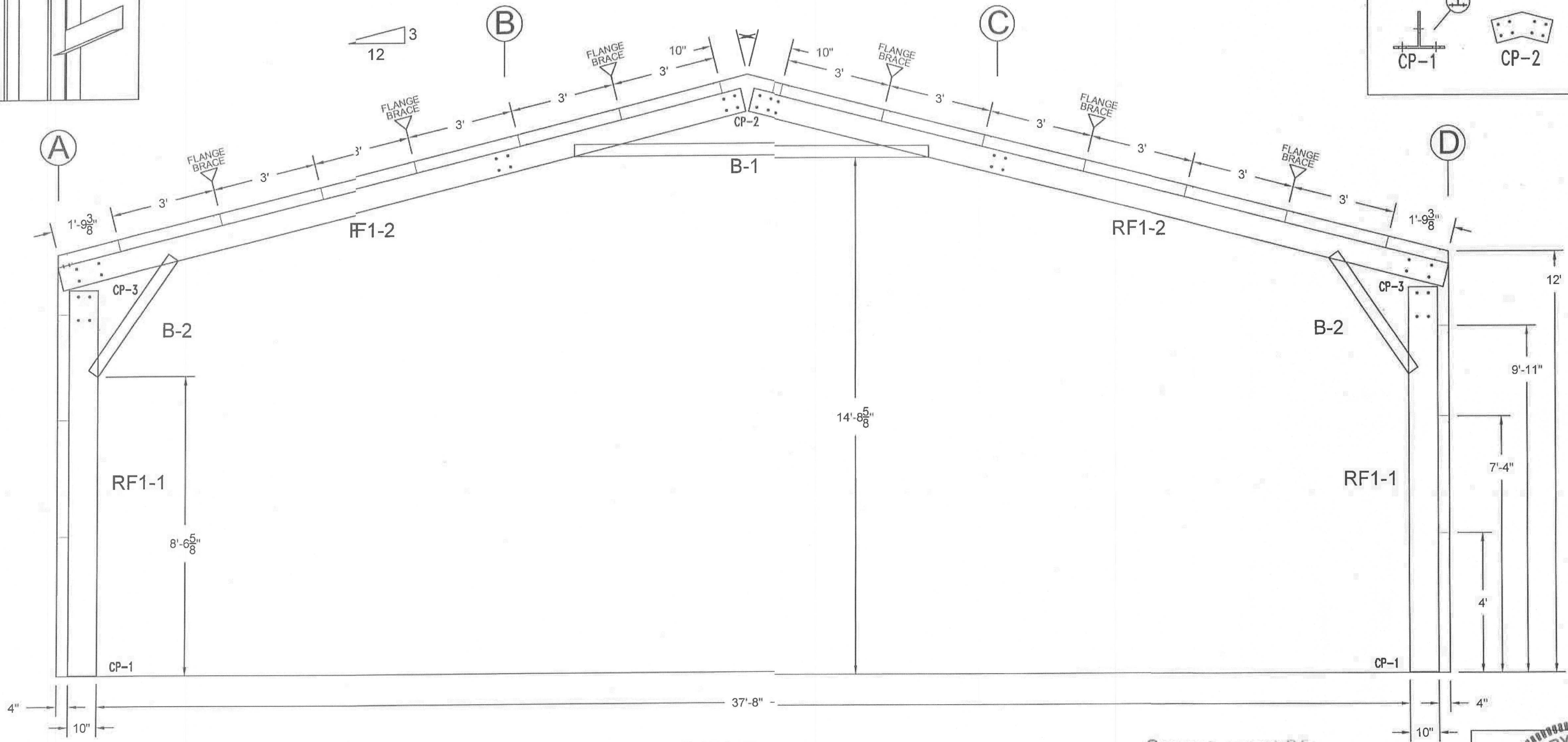
3-31-22

NOTE: COLUMN & RAFTERS ARE DOUBLE CEE'S 9LID SIDE TO SOLID SIDE. THE 1/4" (CP) GOES IN BETWEEN THE 2 CEE'S. THE 2"x4" ANGLE ALSO GOES IN BETWEEN THE CEE'S. THE 4" LEG ON THE ANGLE SHOULD BE TOGETHER AND UT INTO THE MIDDLE OF THE CEE'S.



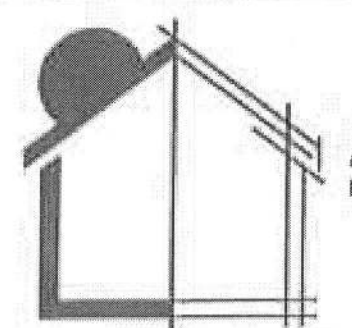
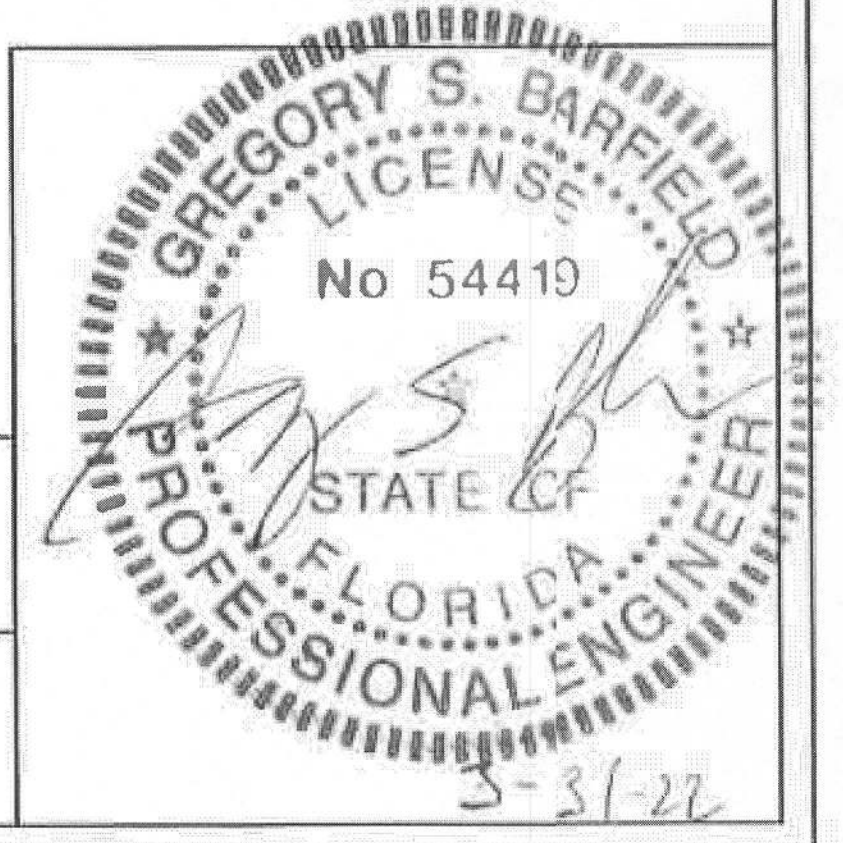
MEMBER SIZE TABLE		
MARK	MEMBER	LENGTH
RF1-1	10X50C12	10'-11 7/8"
RF1-2	8X50C12	20'-4 7/8"
B-1	2x4ANGLE14	10'-0"
B-2	2x4ANGLE14	4'-0"



FRAME LINE 2 3 4

Gregory S. Barfield, P.E.
2149 Neil Purvis Road
Adel, GA 31620
P.E. # 54419

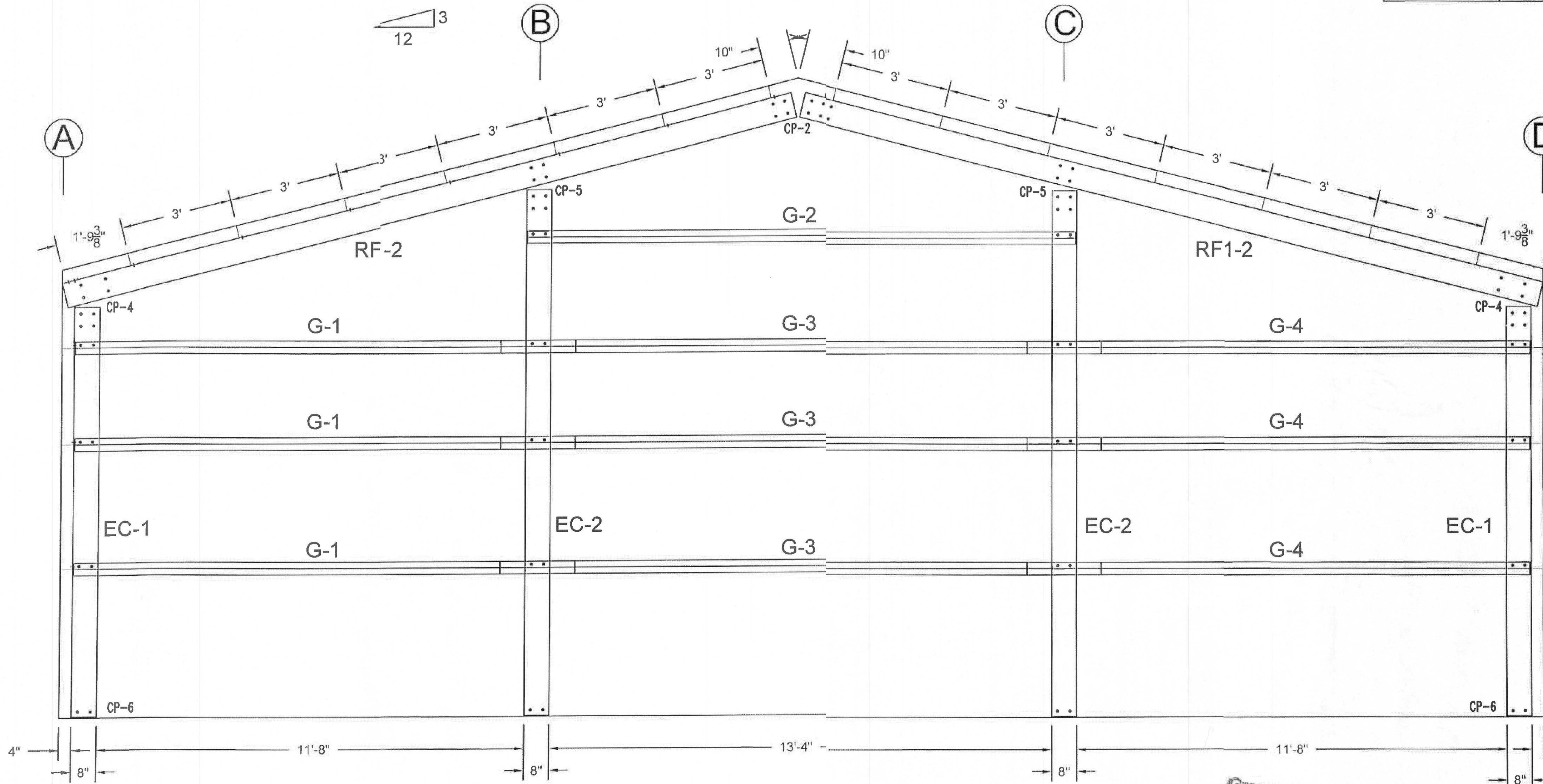


HARRELL STEEL BUILDINGS
Pre-Engineered Metal Buildings • Metal Roofing • Pole Barns

SCALE: N.T.S.	DATE: 3/23/2022	REVISION	PLAN	RIGID FRAME	JOB # 22-122
DRAWN BY: MH	SALESMAN: MH				
BUILDING SIZE: 40'X60'X12'					
		DATE:	DESCRIPTION:		PAGE 3 OF 12

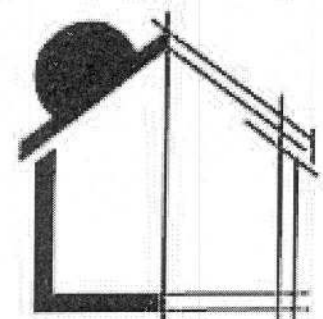
MEMBER SIZE TABLE

MARK	MEMB
EC-1	8X25
EC-2	8X25
ER-1	8X25
G-1	4X22
G-2	4X22
G-3	4X22
G-4	4X22



FRAME LINE 1 5

Gregory S. Barfield, P.E.
2149 Nell Purvis Road
Adel, GA 31620
P.E. # 54419



HARRELL STEEL BUILDINGS

Pre-Engineered Metal Buildings • Metal Roofs • Pole Barns

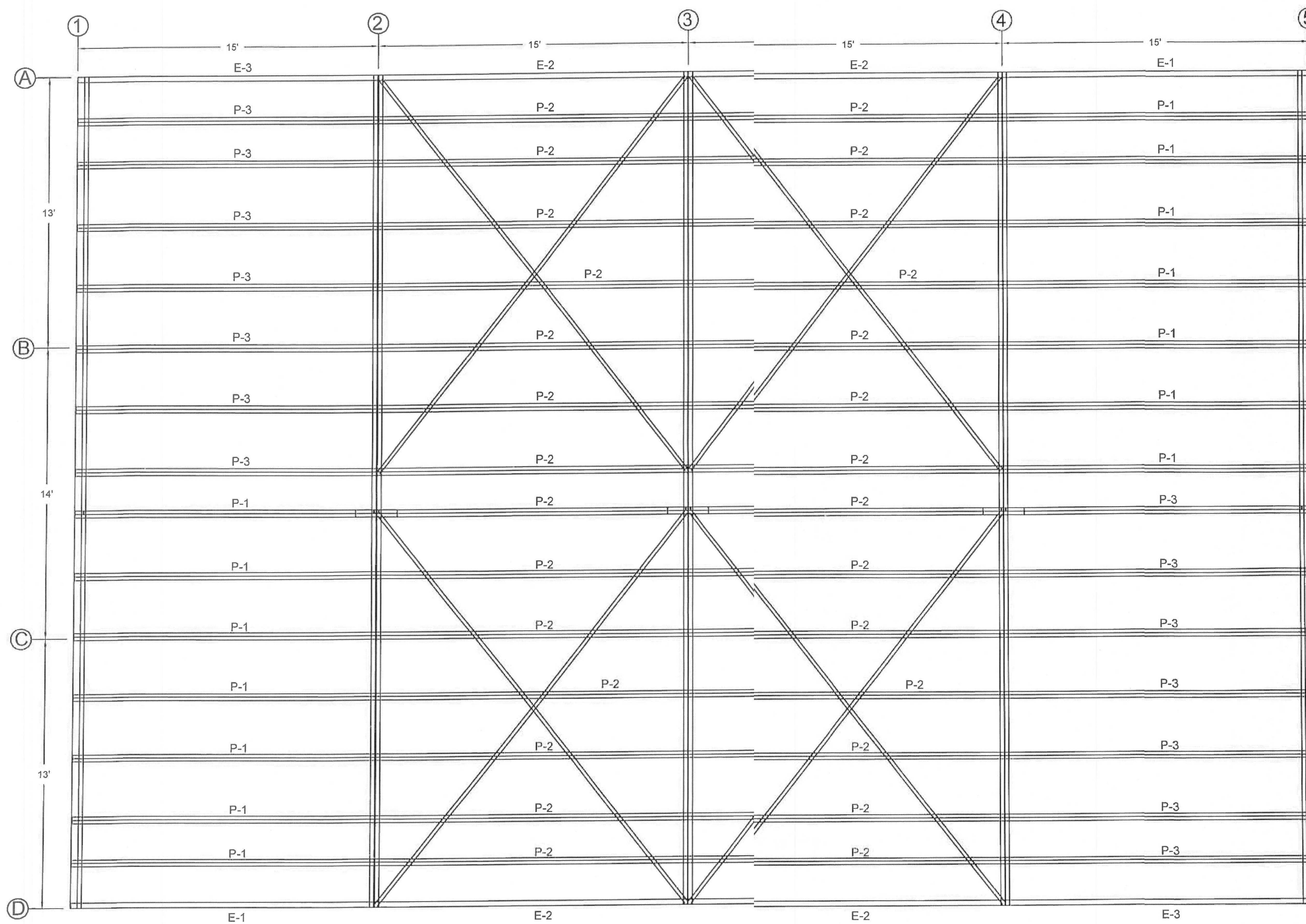
SCALE:	N.T.S.	DATE:	3/23/2022
DRAWN BY:	MH	SALESMAN:	MH
BUILDING SIZE:	40'X60'X12'		

REVISION	
DATE:	DESCRIPTION:

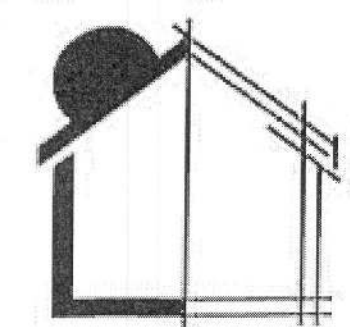
PLAN
ENDWALL FRAMING

JOB #	22-122
PAGE	4 OF 12

MEMBER SIZE TABLE		
MARK	MEMBER	LENGTH
E-1	4X5X3ES14	1'-11 1/2"
E-2	4X5X3ES14	1'-11 1/2"
E-3	4X5X3ES14	1'-11 1/2"
P-1	4X2Z16	1'-11 3/4"
P-2	4X2Z16	1'-0"
P-3	4X2Z16	1'-11 3/4"



Gregory S. Barfield, P.E.
 2149 Nell Purvis Road
 Adel, GA 31620
 P.E. # 54410



HARRELL STEEL BUILDINGS
 Pre-Engineered Metal Buildings • Metal Roofing • Pole Barns

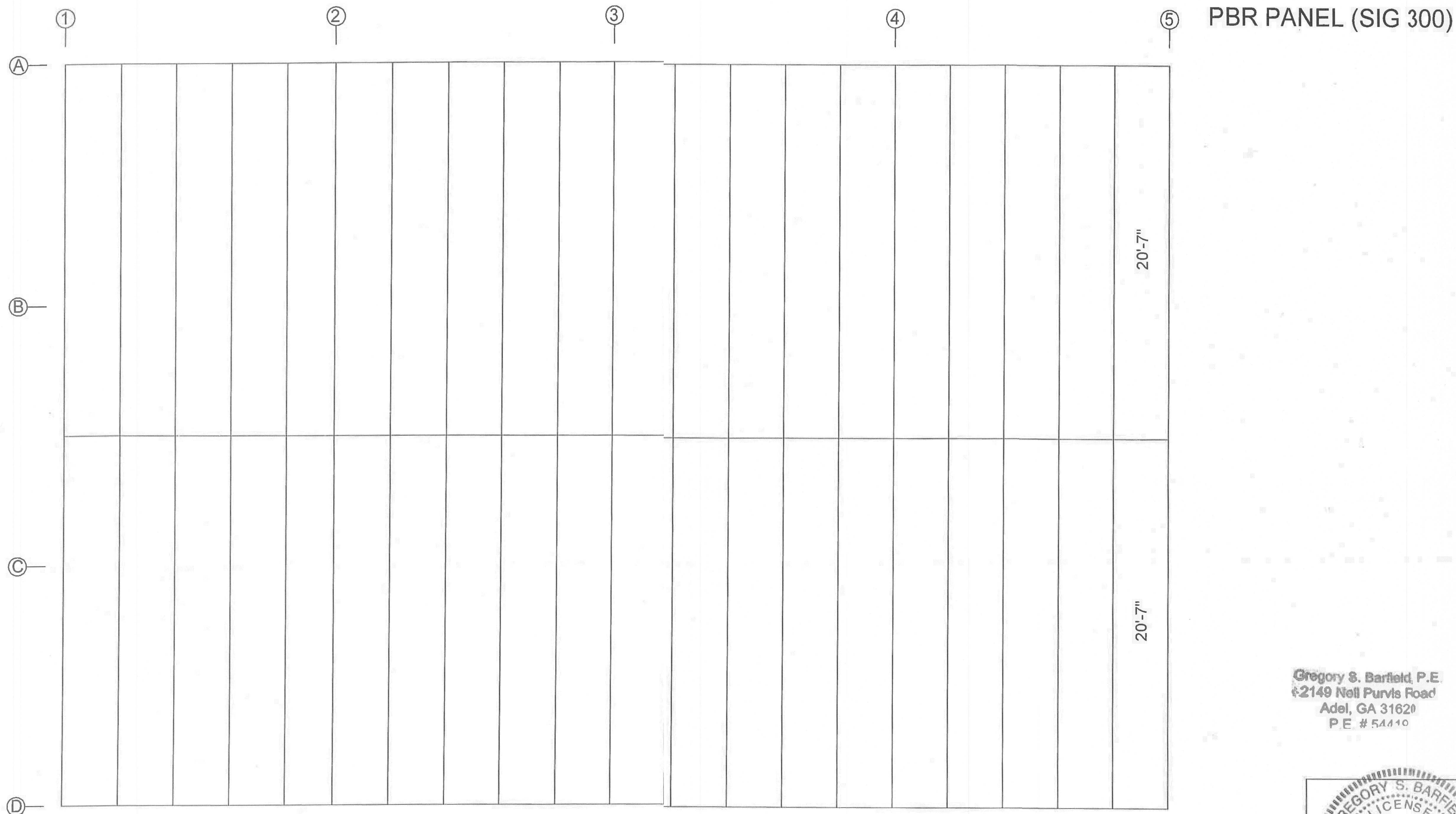
SCALE: N.T.S.	DATE: 3/23/2022
DRAWN BY: MH	SALESMAN: MH
BUILDING SIZE: 40'X60'X12'	

REVISION	
DATE:	DESCRIPTION:

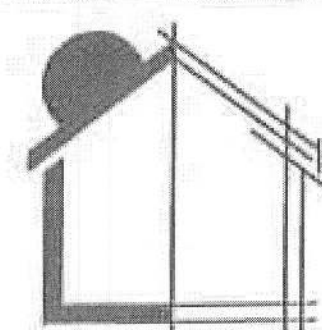
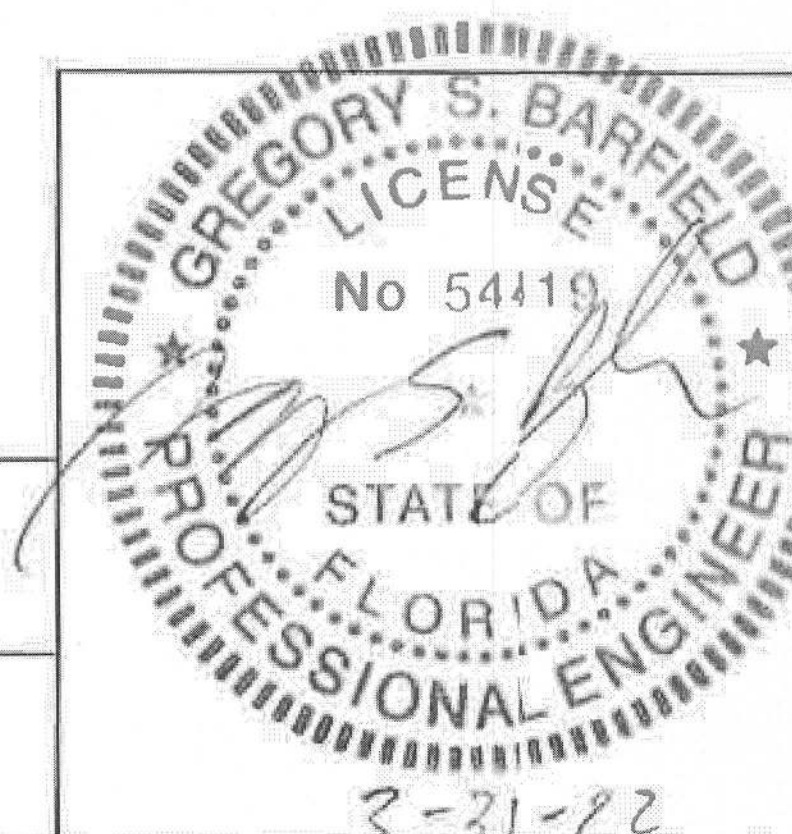
PLAN
ROOF FRAMING

JOB #	22-122
PAGE	5 OF 12

3-31-22



Gregory S. Barfield, P.E.
 2149 Nell Purvis Road
 Adel, GA 31620
 P.E. # 54410



HARRELL STEEL BUILDINGS

Pre-Engineered Metal Buildings • Metal Roofing • Pole Barns

SCALE:	N.T.S	DATE:	3/23/2022
DRAWN BY:	MH	SALESMAN:	MH
BUILDING SIZE:	40'X60'X12'		

REVISION	
DATE:	DESCRIPTION:

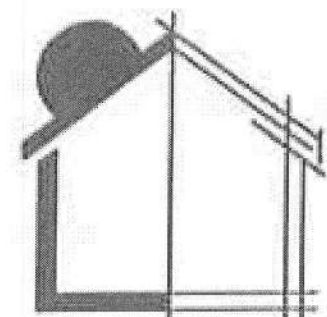
PLAN

ROOF SHEETING

JOB #	22-122
PAGE	6 OF 12

3" (42'-6")

Gregory S. Barfield, P.E.
2149 Neil Purvis Road
Adel, GA 31620
P.E. # 54419



HARRELL STEELBUILDINGS

Pre-Engineered Metal Buildings • Metal Roofing • Pole Barns

SCALE:	N.T.S	DATE:	3/23/2022
DRAWN BY:	MH	SALESMAN:	MH
BUILDING SIZE:	40'X60'X12'		

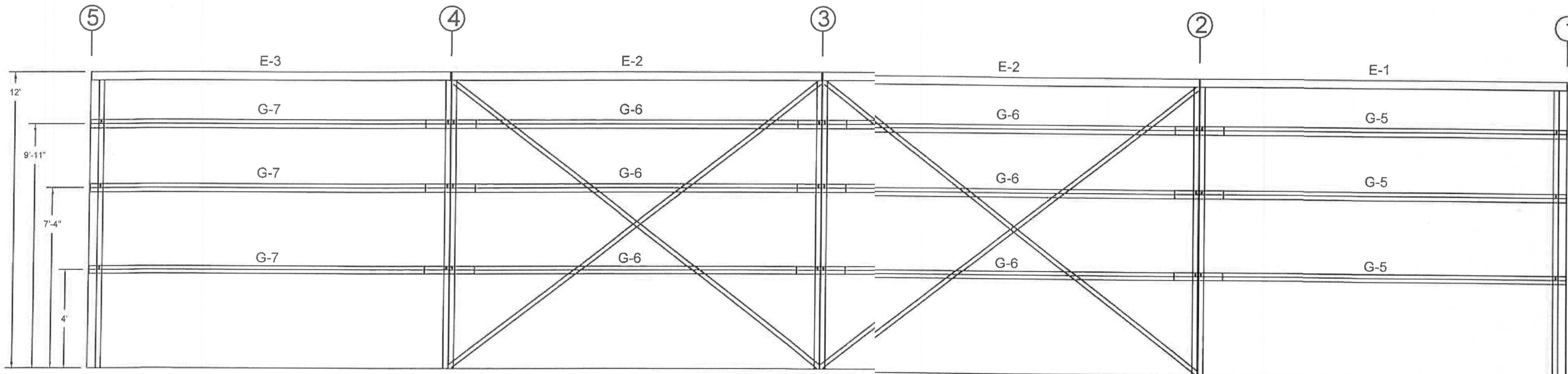
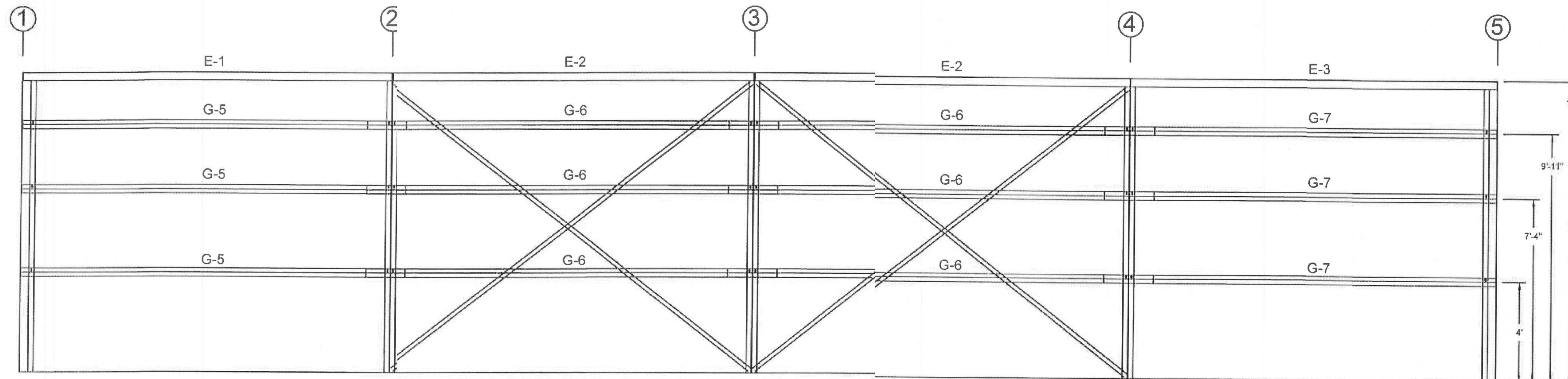
REVISION	
DATE:	DESCRIPTION:

PLAN
ROOF INSULATION

JOB #	22-122
PAGE	7 OF 12

(2) 3'X5' FRAMED OPENING (FIELD LOCATED)
 (1) 6'X7' FRAMED OPENING (FIELD LOCATED)

MEMBER SIZE TABLE		
MARK	MEMBER	LENGTH
E-1	4X5X3ES14	14'-11 1/2"
E-2	4X5X3ES14	14'-11 1/2"
E-3	4X5X3ES14	14'-11 1/2"
G-5	4X2Z16	15'-11 3/4"
G-6	4X2Z16	17'-0"
G-7	4X2Z16	15'-11 3/4"



Gregory S. Barfield, P.E.
 2149 Neil Purvis Road
 Adel, GA 31620
 PE # 54419

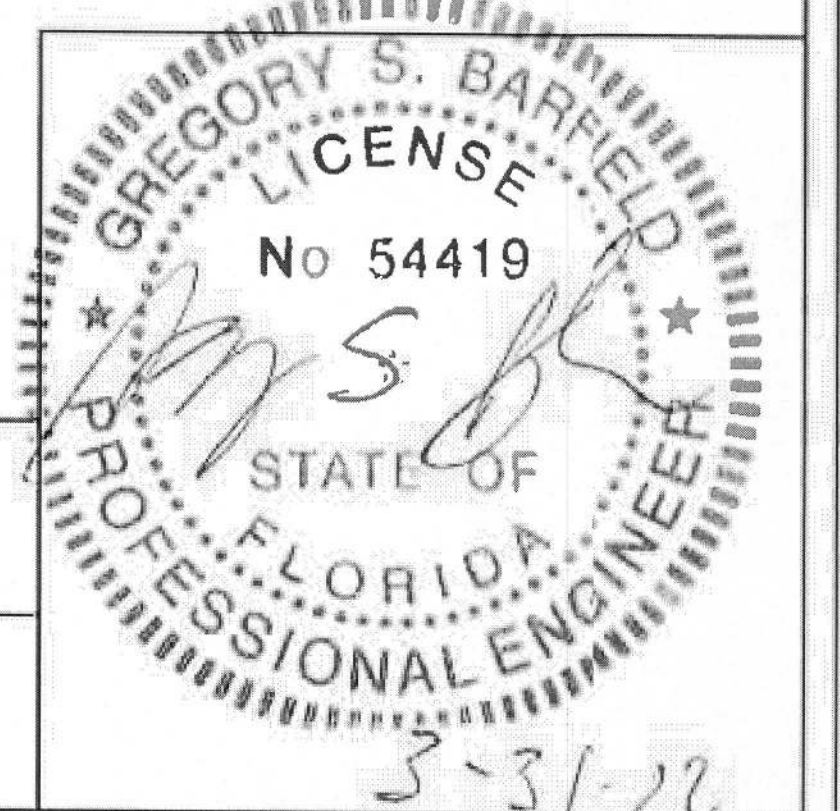


SCALE: N.T.S. DATE: 3/23/2022
 DRAWN BY: MH SALESMAN: MH
 BUILDING SIZE: 40'X60'X12'

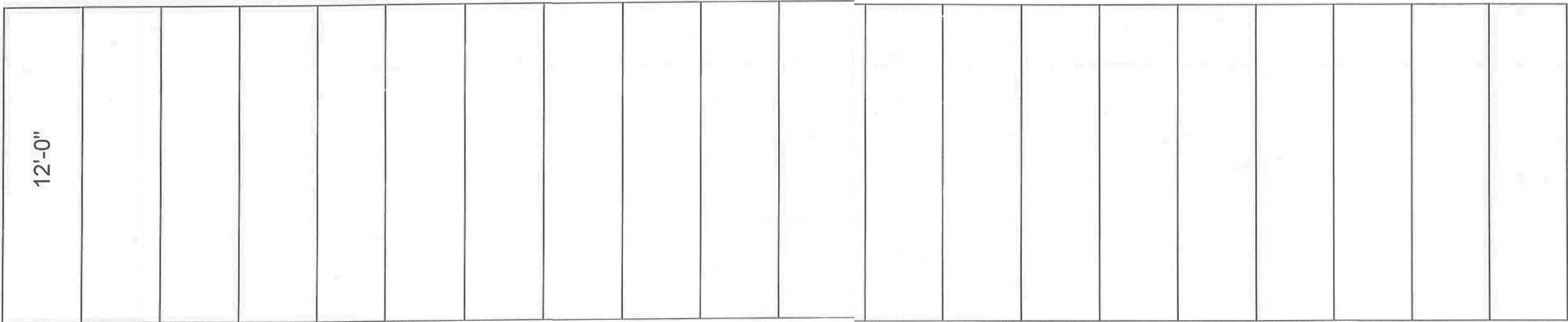
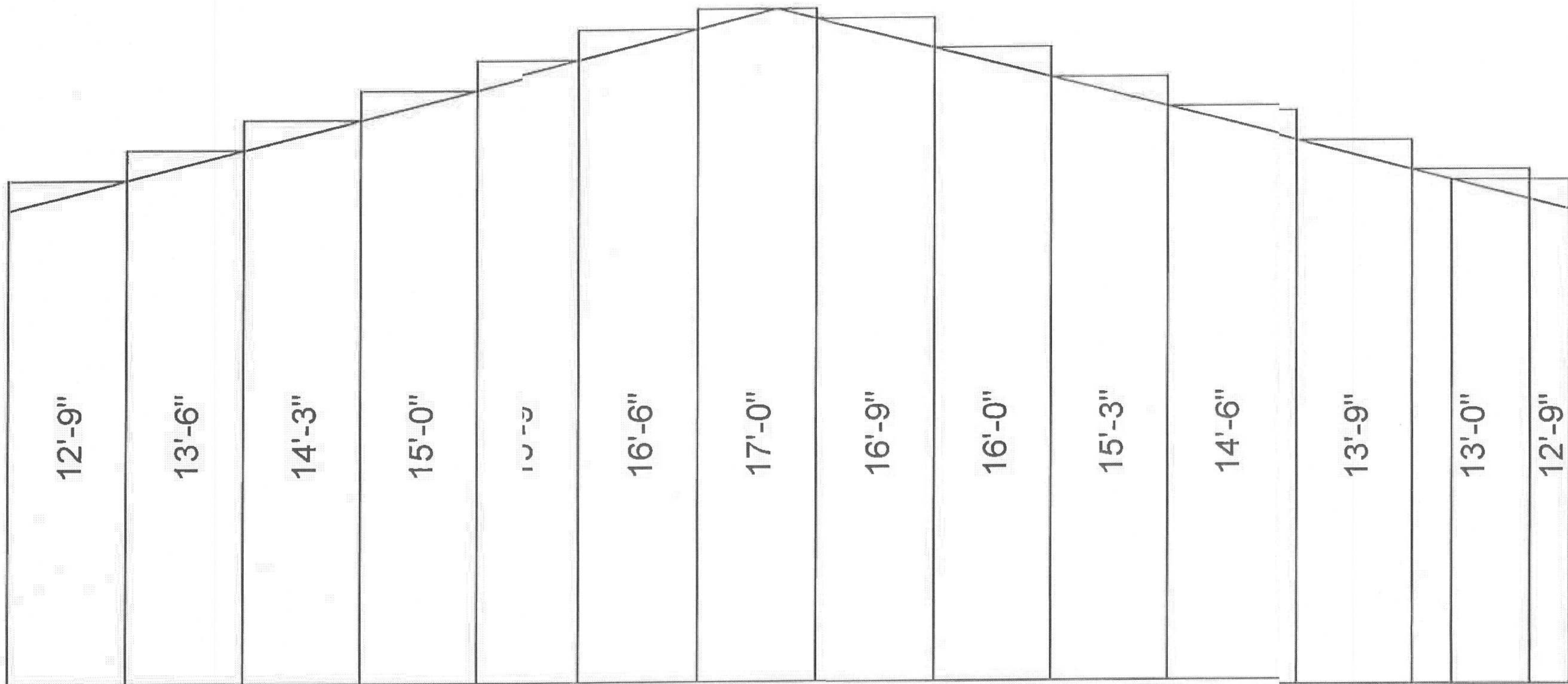
REVISION	
DATE:	DESCRIPTION:

PLAN
 WALL FRAMING

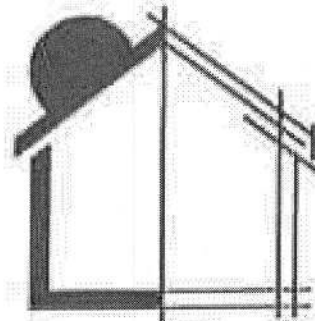
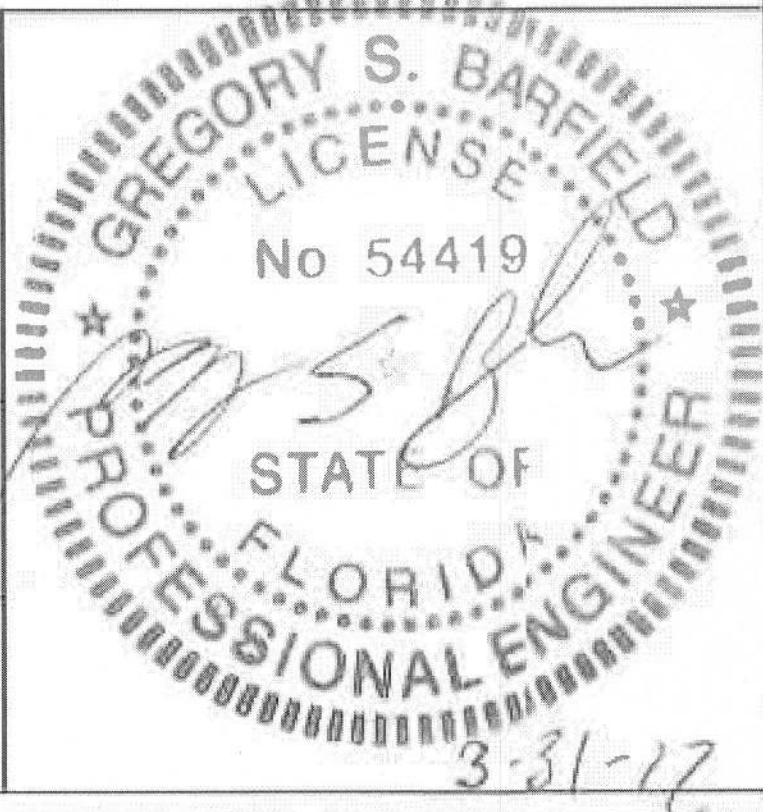
JOB # 22-122
 PAGE 8 OF 12



PBR PANEL (SIG 200)



Gregory S. Barfield, P.E.
2149 Nell Purvis Road
Adel, GA 31620
P.E. # 54419



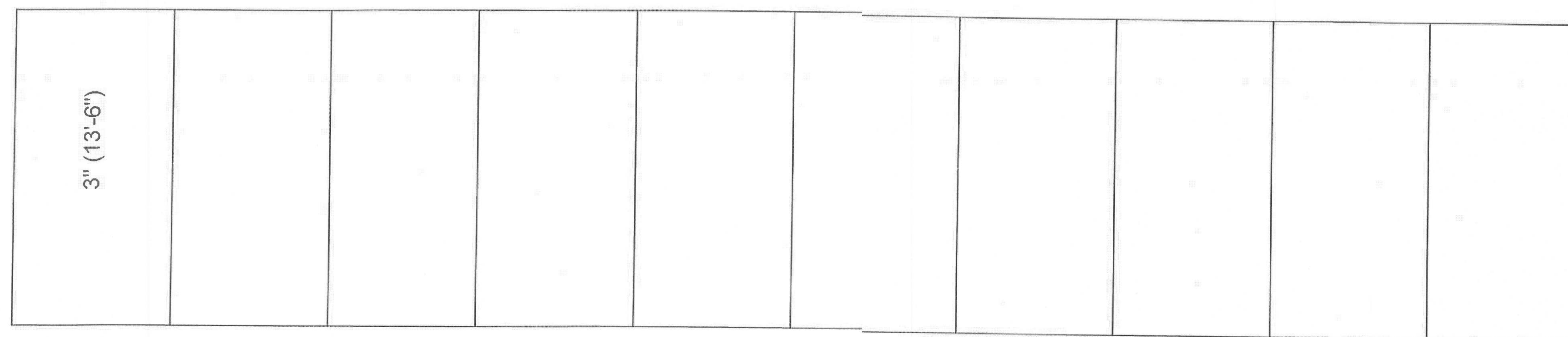
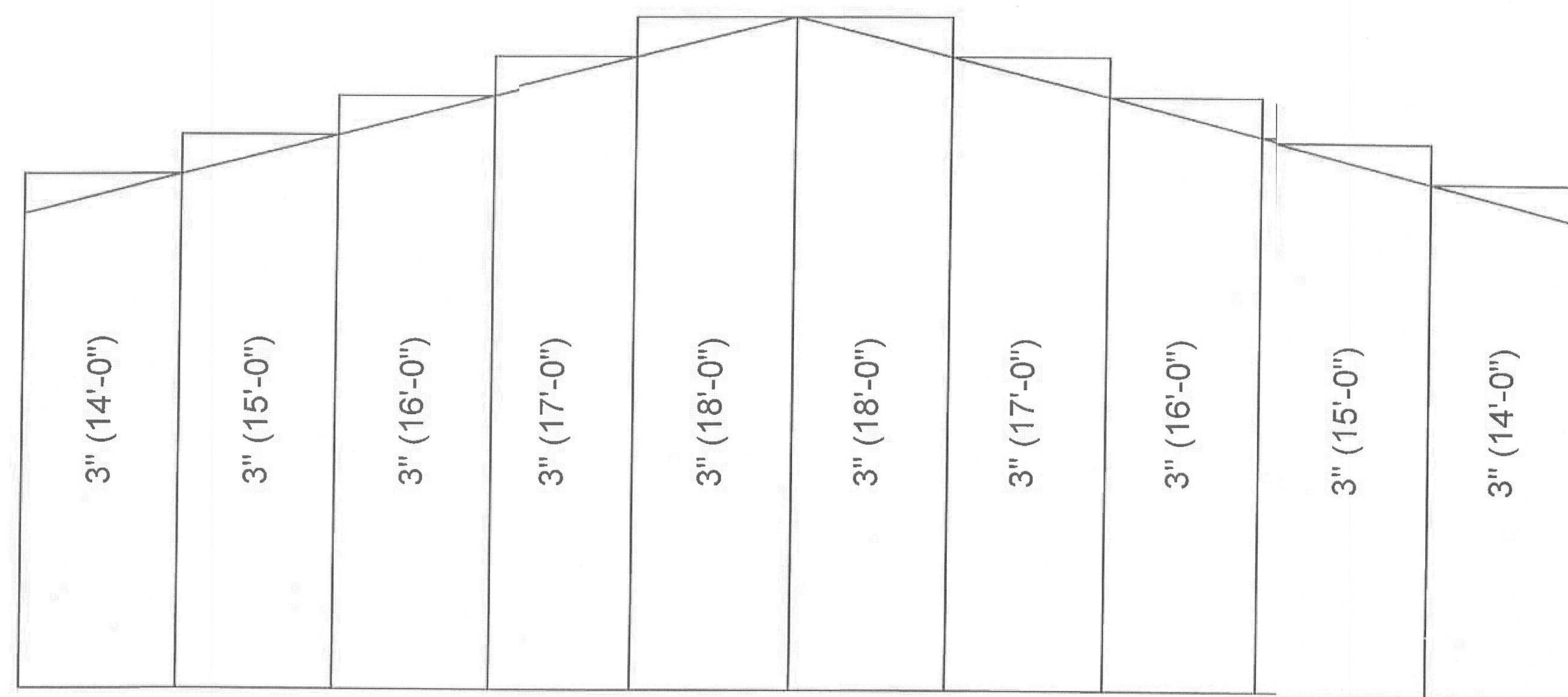
HARRELL STEEL BUILDINGS
Pre-Engineered Metal Buildings • Metal Roofing • Polo Barns

SCALE: N.T.S. DATE: 3/23/2022
DRAWN BY: MH SALESMAN: MH
BUILDING SIZE: 40'X60'X12'

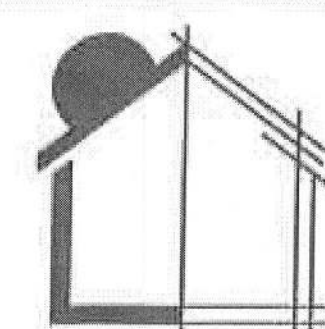
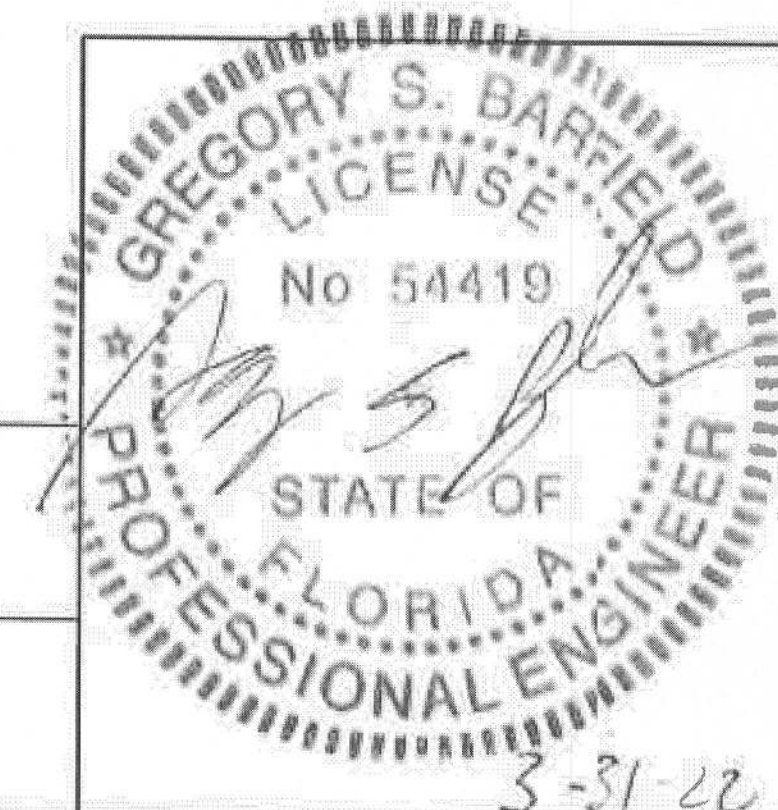
REVISION	
DATE:	DESCRIPTION:

PLAN
WALL SHEETS

JOB # 22-122
PAGE 9 OF 12



Gregory S. Barfield, P.E.
 2149 Nell Purvis Road
 Adel, GA 31620
 P.E. # 54419



HARRELL STEEL BUILDINGS

Pre-Engineered Metal Buildings • Metal Roofing • Pole Barns

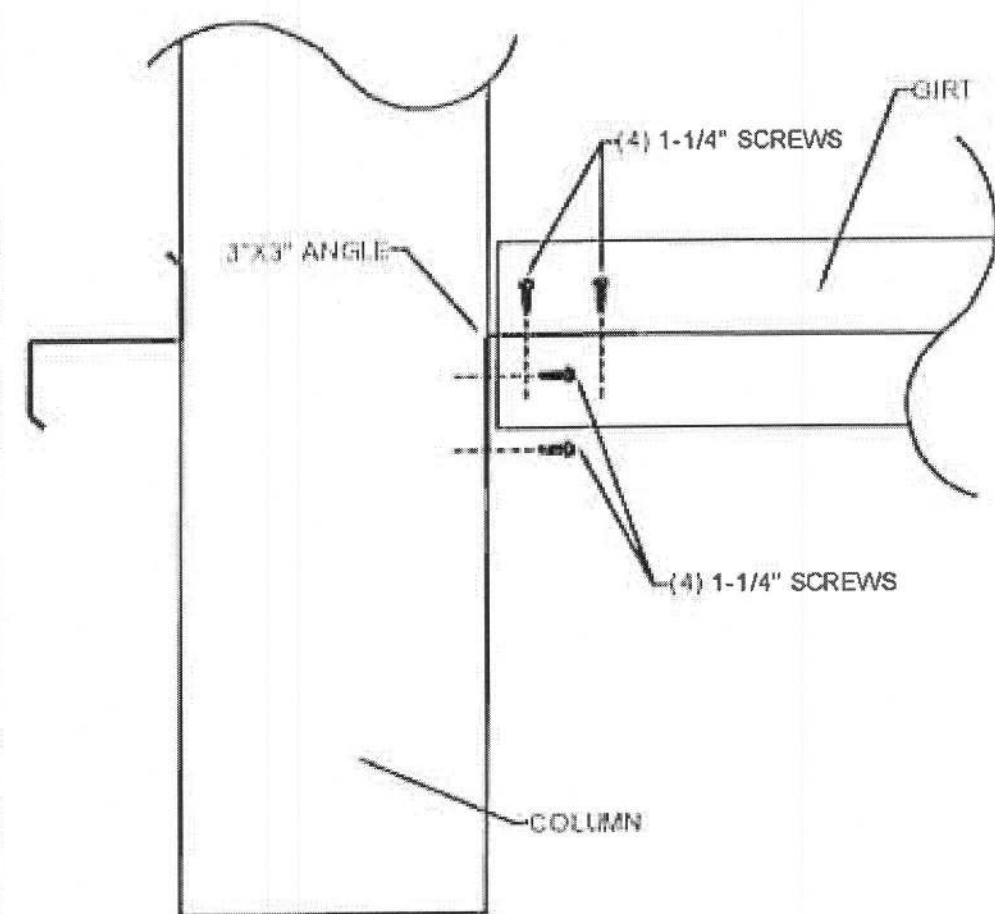
SCALE: N.T.S. DATE: 3/23/2022
 DRAWN BY: MH SALESMAN: MH
 BUILDING SIZE: 40'X60'X12'

REVISION	
DATE:	DESCRIPTION:

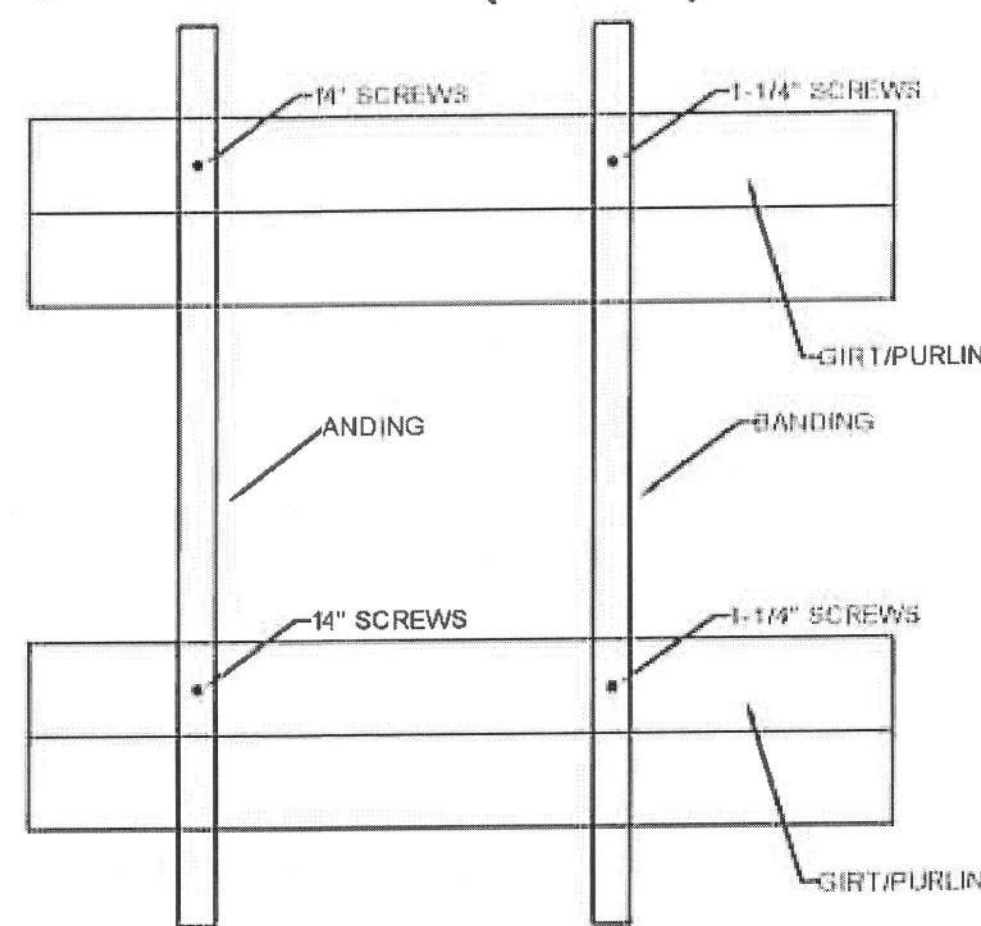
PLAN
 WALL INSULATION

JOB # 22-122
 PAGE 10 OF 12

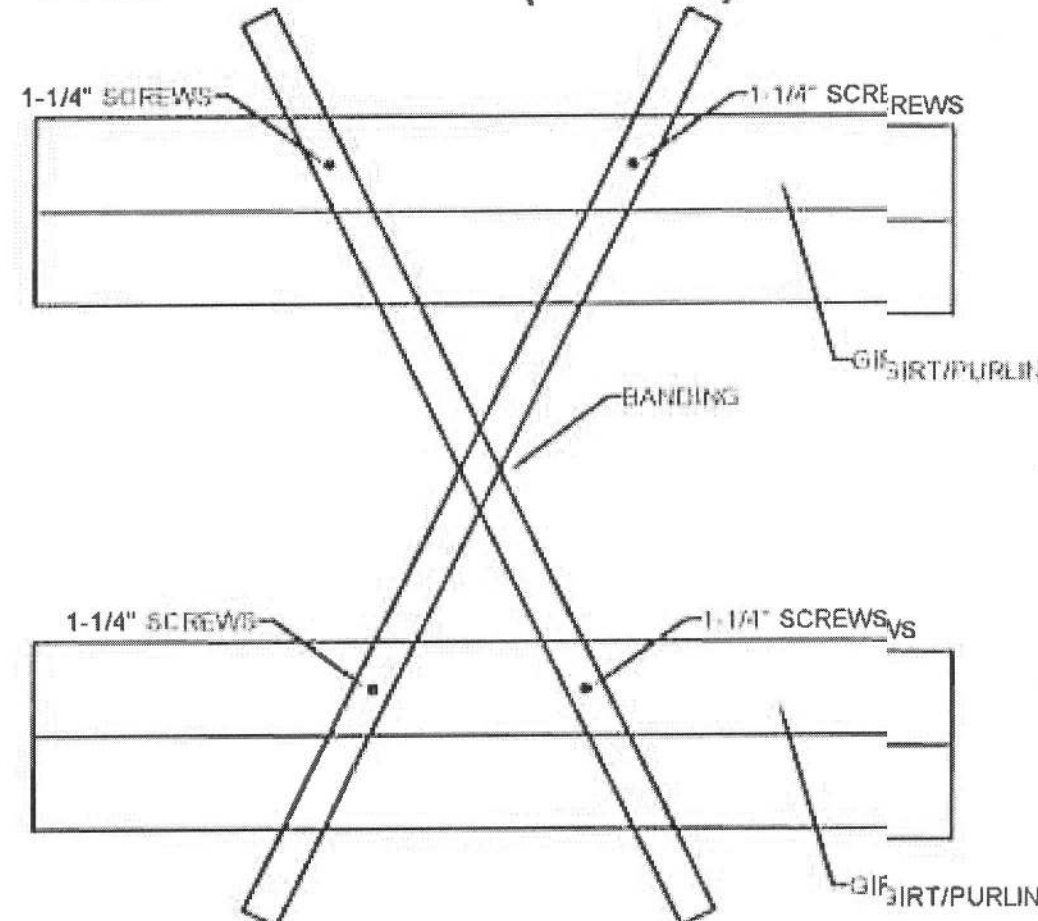
FLUSH ENDWALL ATTACHMENT



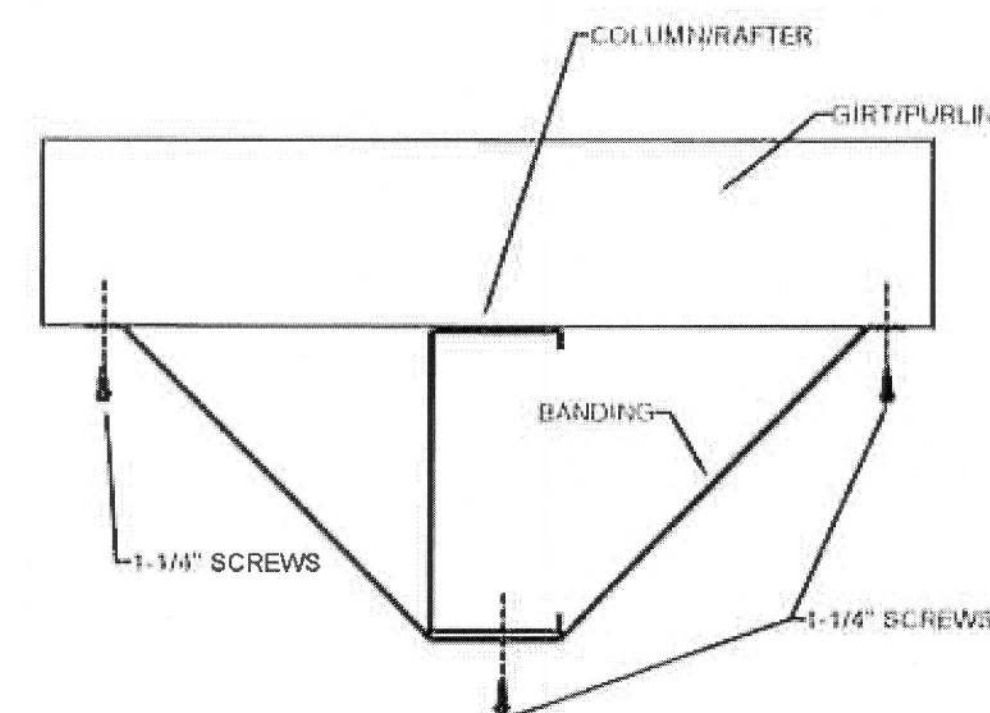
BUILDING BANDING (1 OF 2)



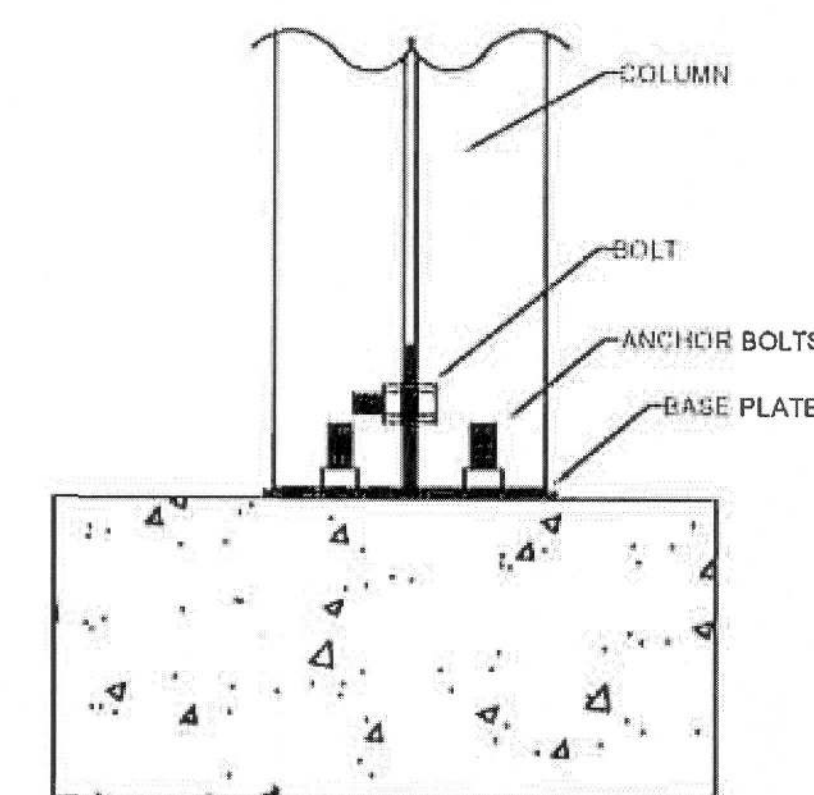
BUILDING BANDING (2 OF 2)



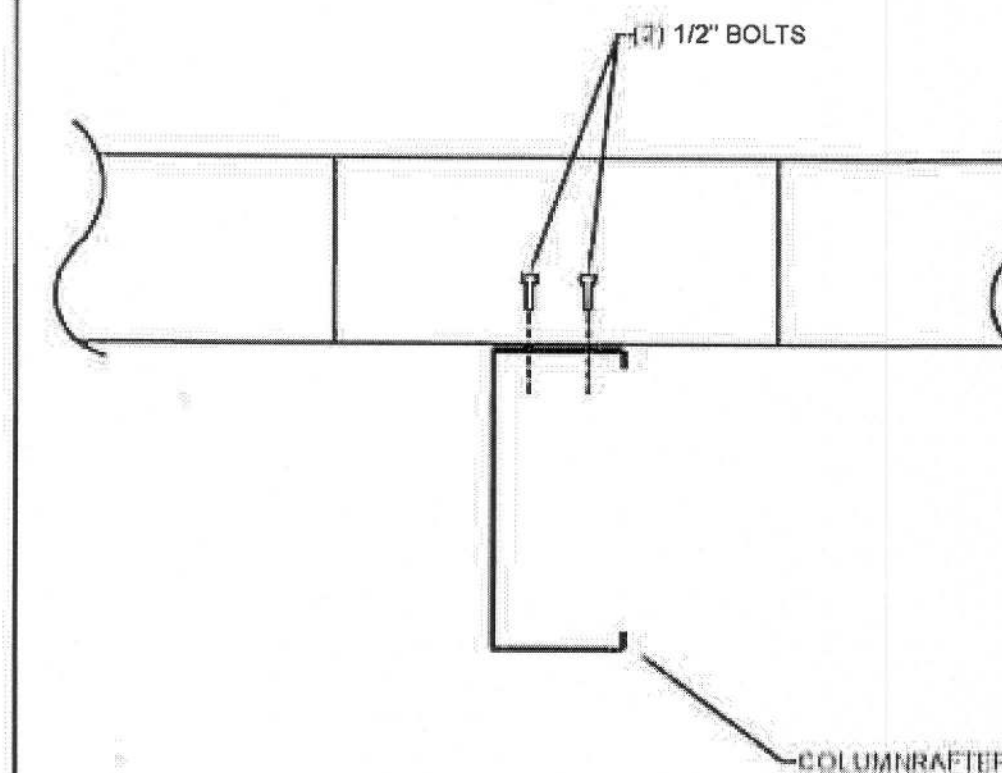
FLANGE BRACING



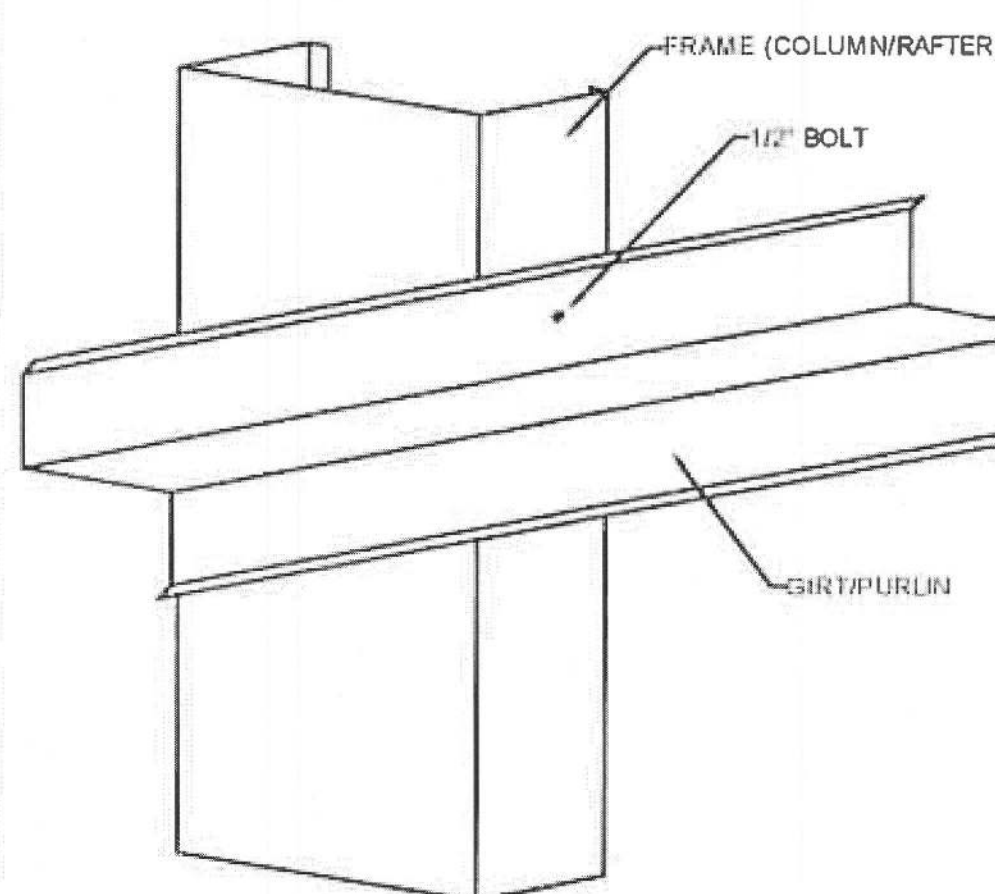
ANCHOR BOLT ATTACHMENT



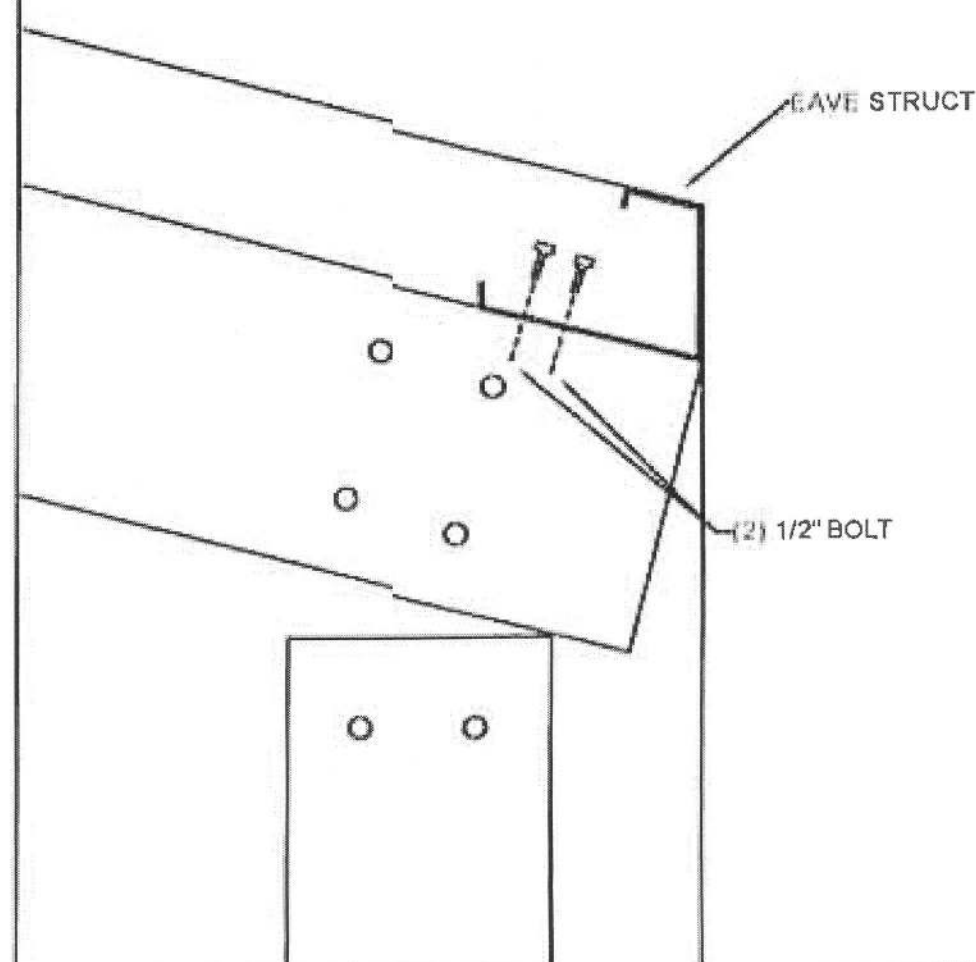
PURLIN/GIRT LAP



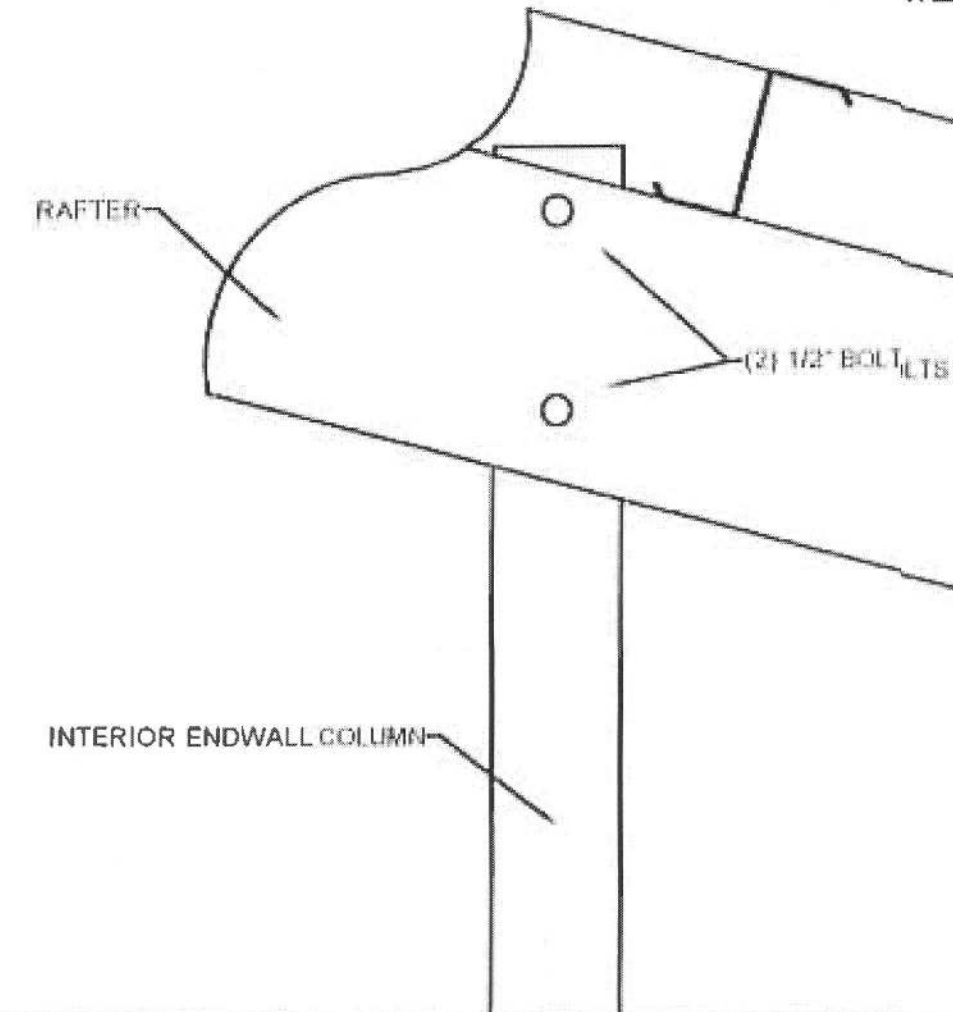
PURLIN/GIRT TO FRAME ATTACHMENT



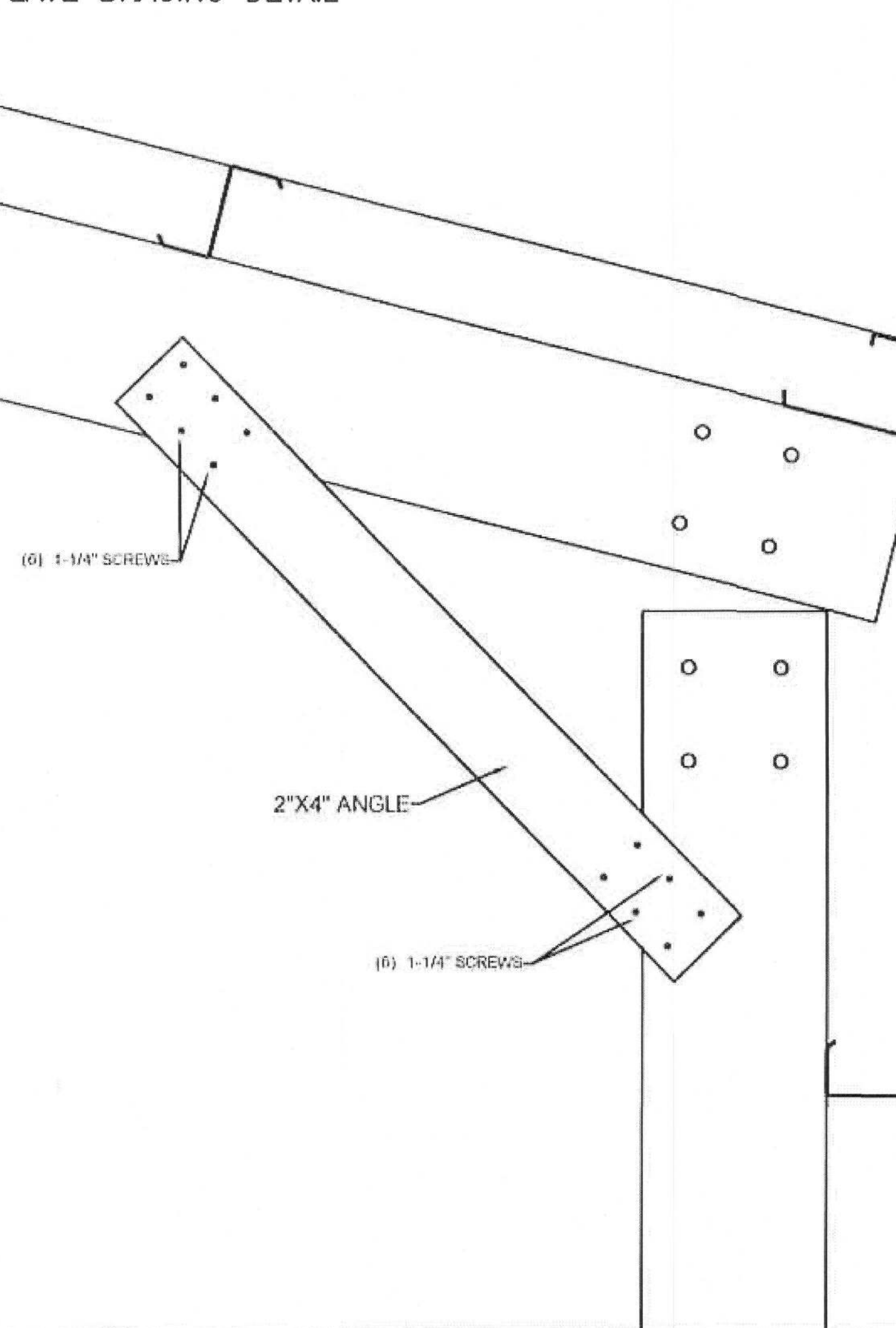
EAVE STRUT CONNECTION



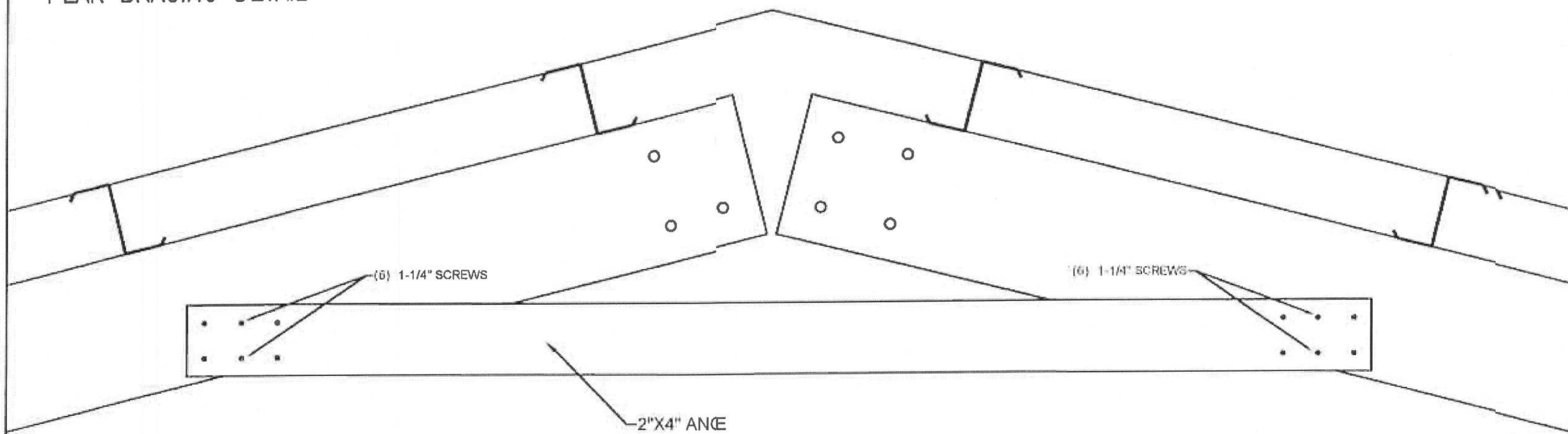
ENDWALL INTERIOR COLUMN ATTACHMENT



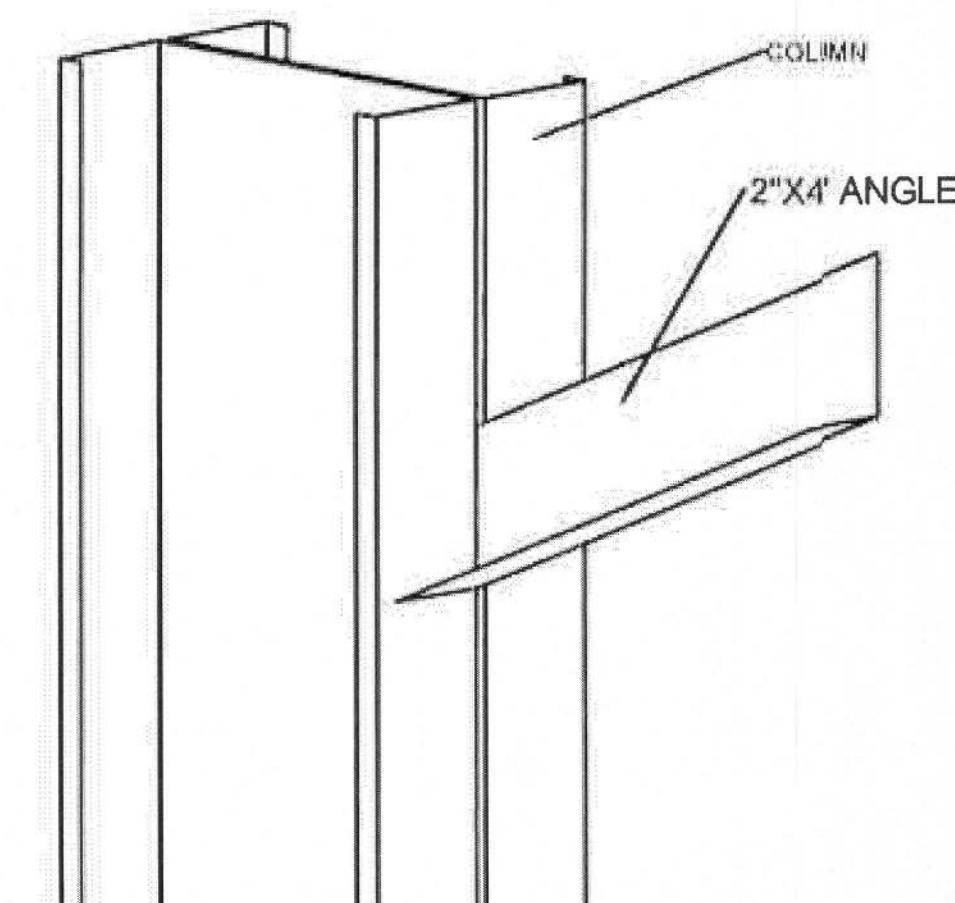
EAVE BRACING DETAIL



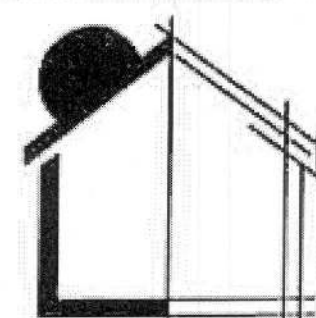
PEAK BRACING DETAIL



ANGLE ATTACHMENT



Gregory S. Barfield, P.E.
2149 Nell Purvis Road
Adel, GA 31620
P.E. # 54419



HARRELL STEEL BUILDINGS

Pre-Engineered Metal Buildings • Metal Roofing • Pole Barns

SCALE: N.T.S.

DATE: 3/23/2022

DRAWN BY: MH

SALESMAN: MH

BUILDING SIZE: 40'X60'X12'

REVISION

DATE:	DESCRIPTION:

PLAN

DETAILS

JOB #

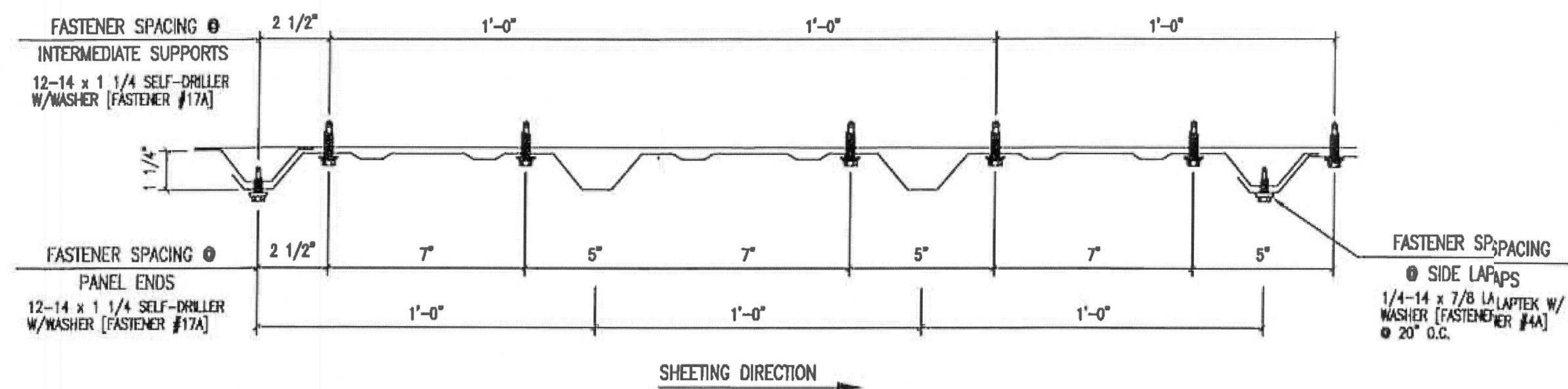
22-122

PAGE

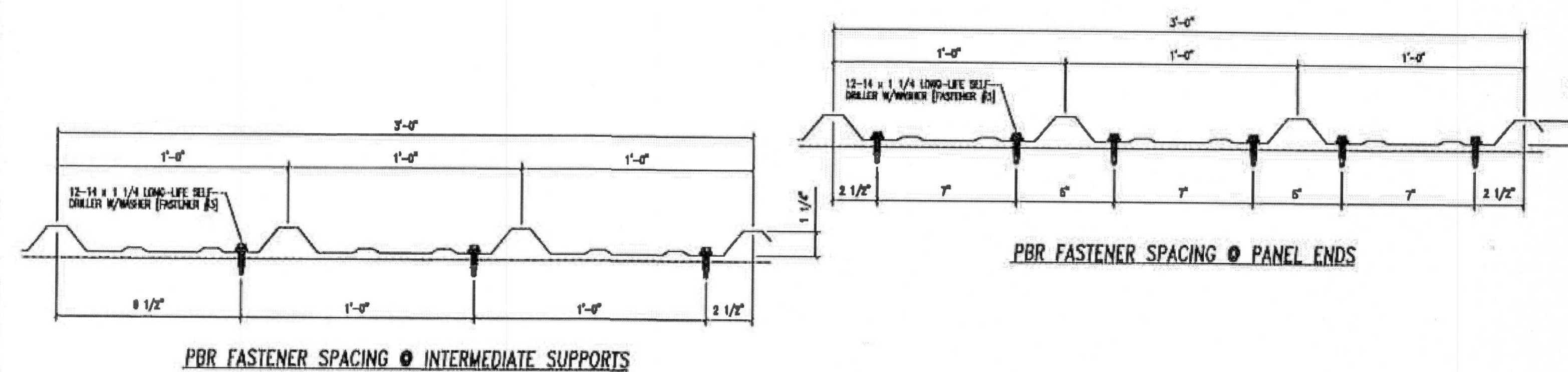
11 OF 12



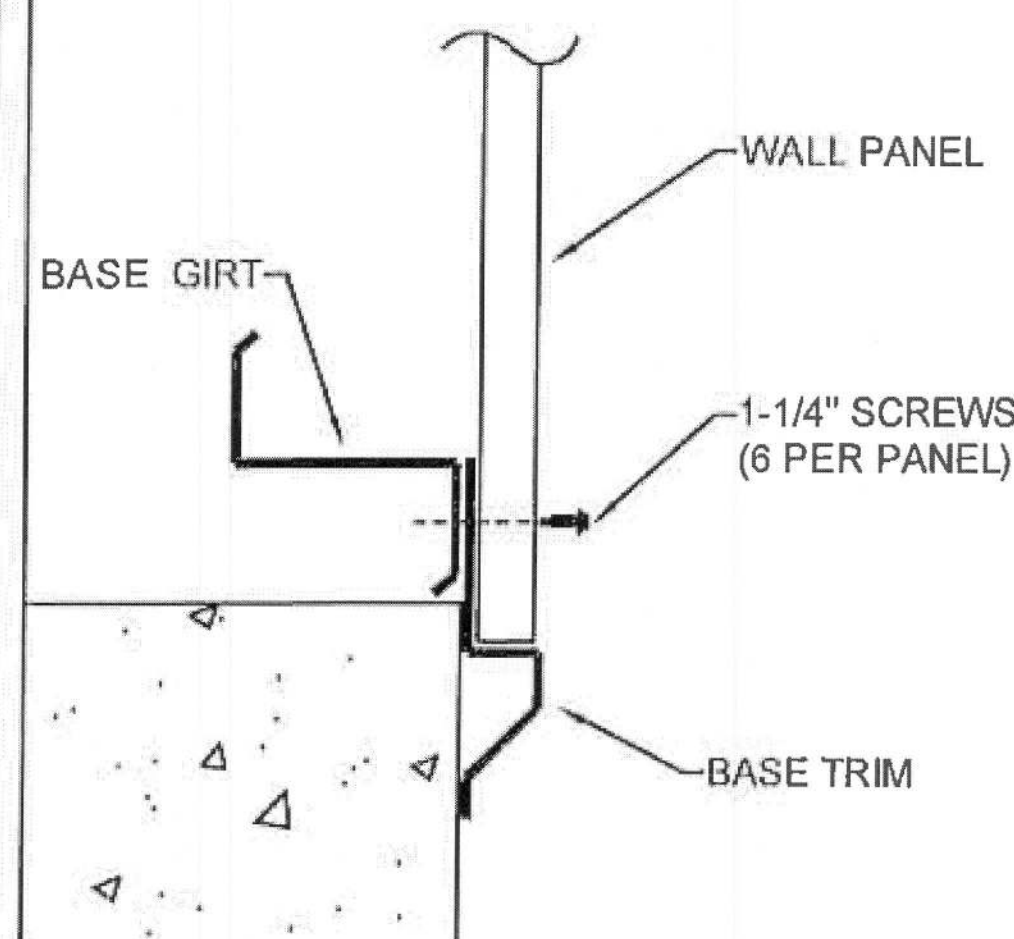
WALL FASTENER SPACING



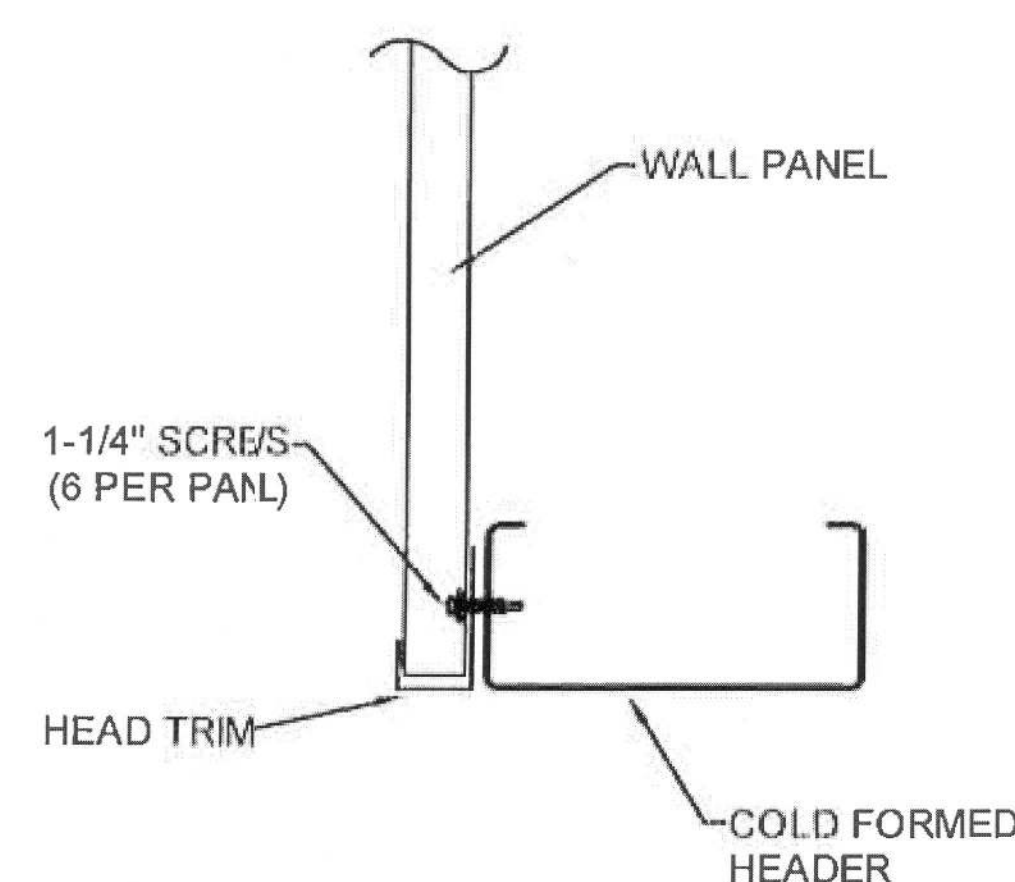
ROOF FASTENER SPACING



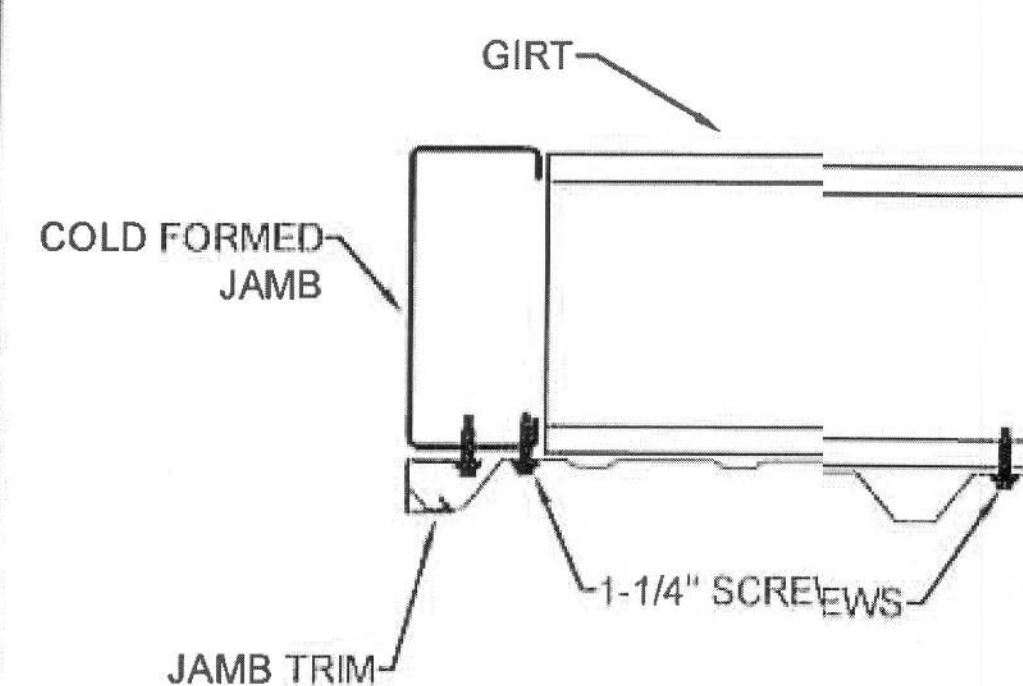
BASE DETAIL



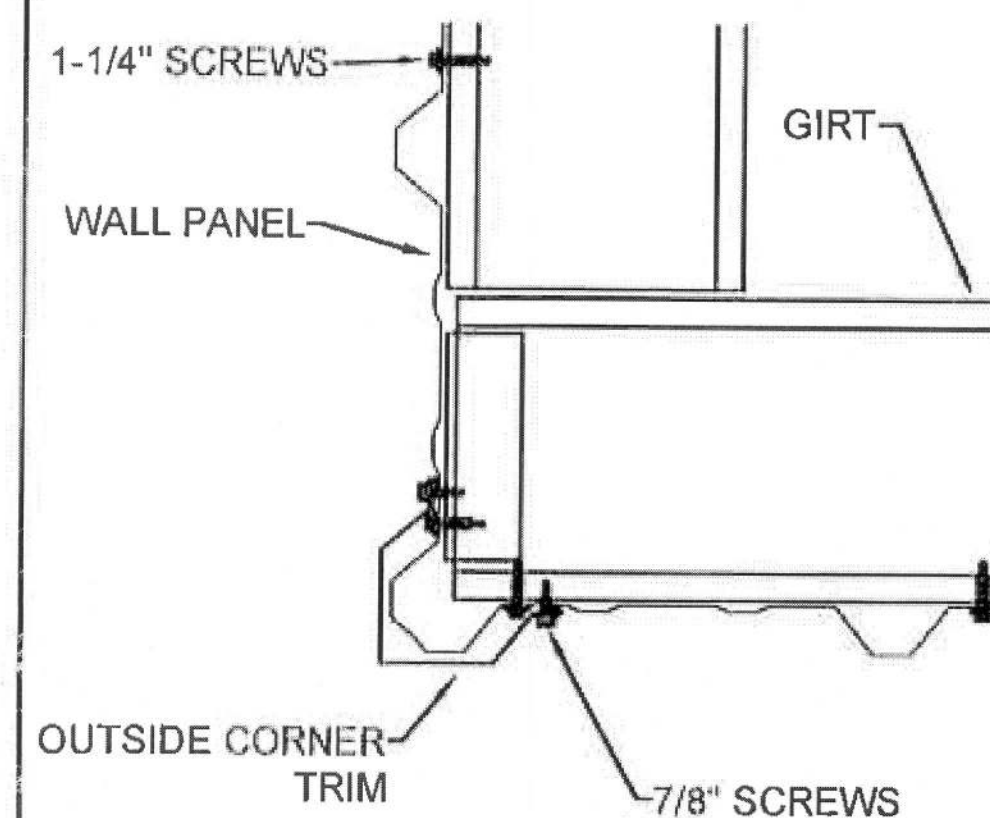
HEADER DETAIL



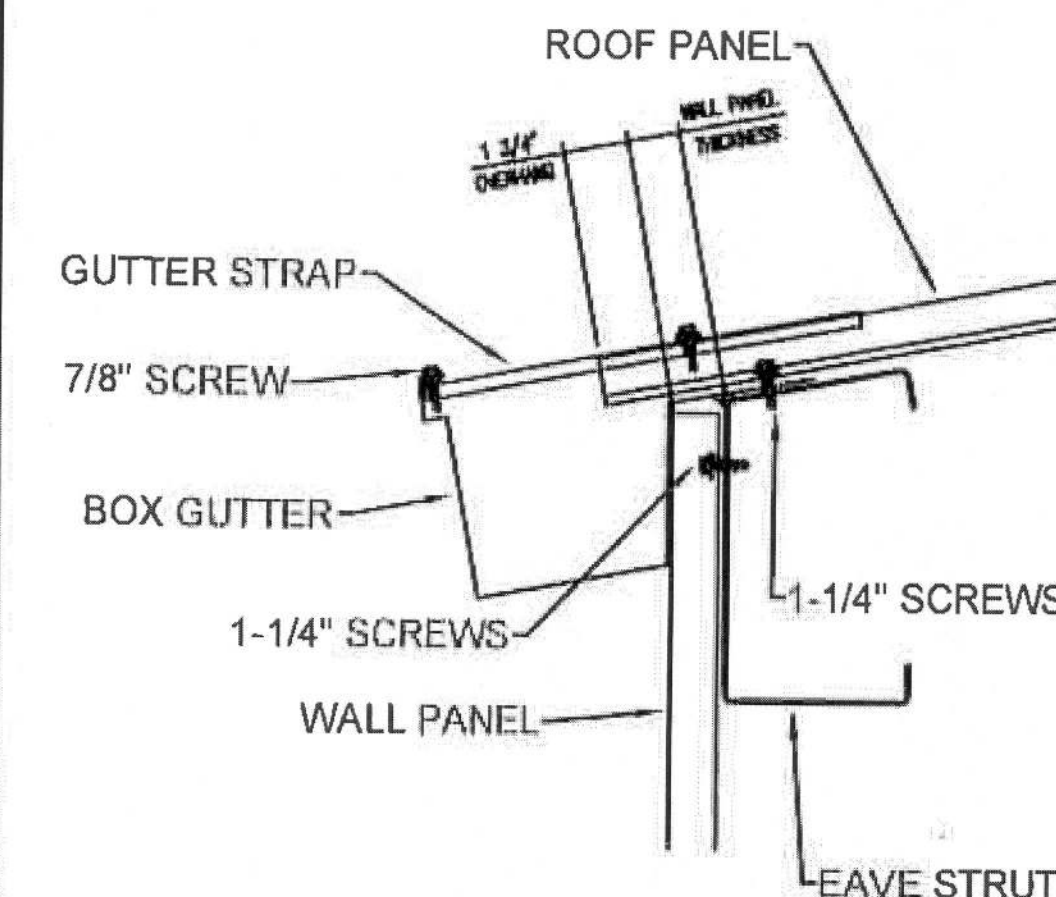
JAMB DETAIL



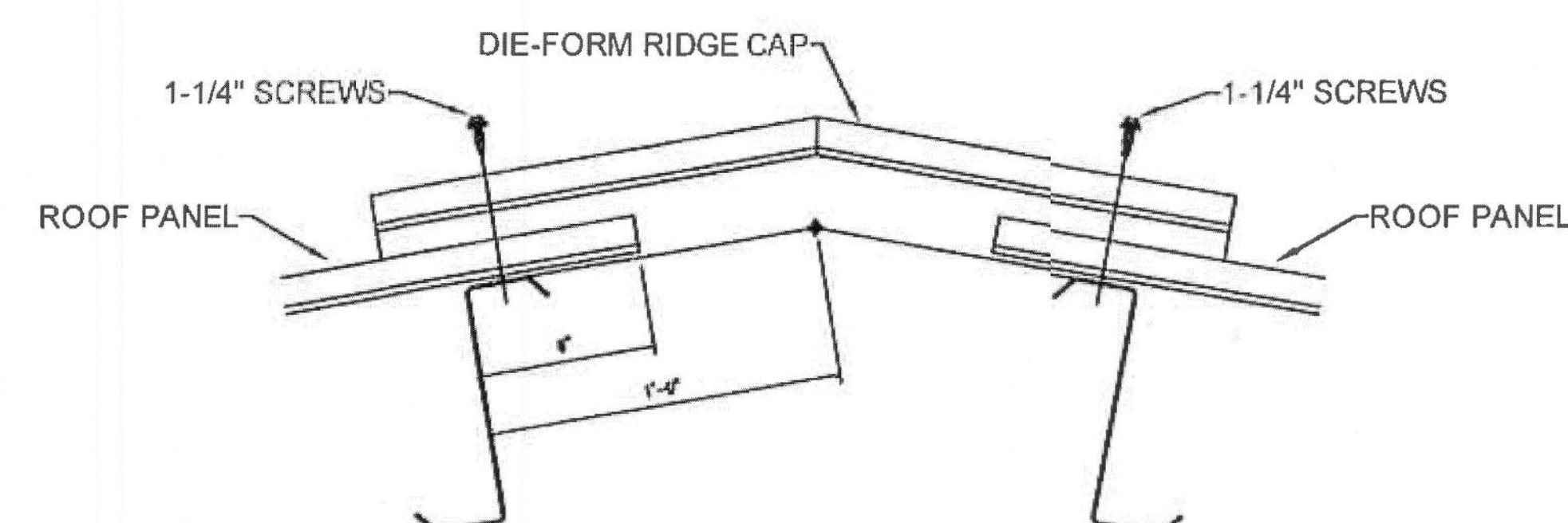
OUTSIDE CORNER TRIM DETAIL



GUTTER DETAIL



DIE-FORM RIDGE CAP DETAIL



Gregory S. Bartfeld, P.E.
2149 Neil Purvis Road
Adel, GA 31620
P.E. # 54419



SCALE: N.T.S. DATE: 3/23/2022
DRAWN BY: MH SALESMAN: MH
BUILDING SIZE: 40'X60'X12'

REVISION	
DATE:	DESCRIPTION:

PLAN

DETAILS

JOB # 22-122
PAGE 12 OF 12

