

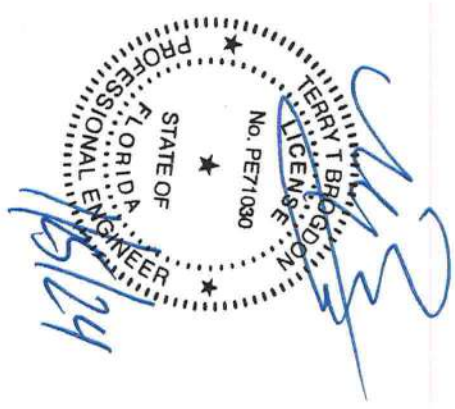
PRE-ENGINEERED METAL BUILDING PLANS FOR:

Northside Baptist Church

50'-0" x 50'-0" x 12'-0"

Lake City, FL

1/23/24



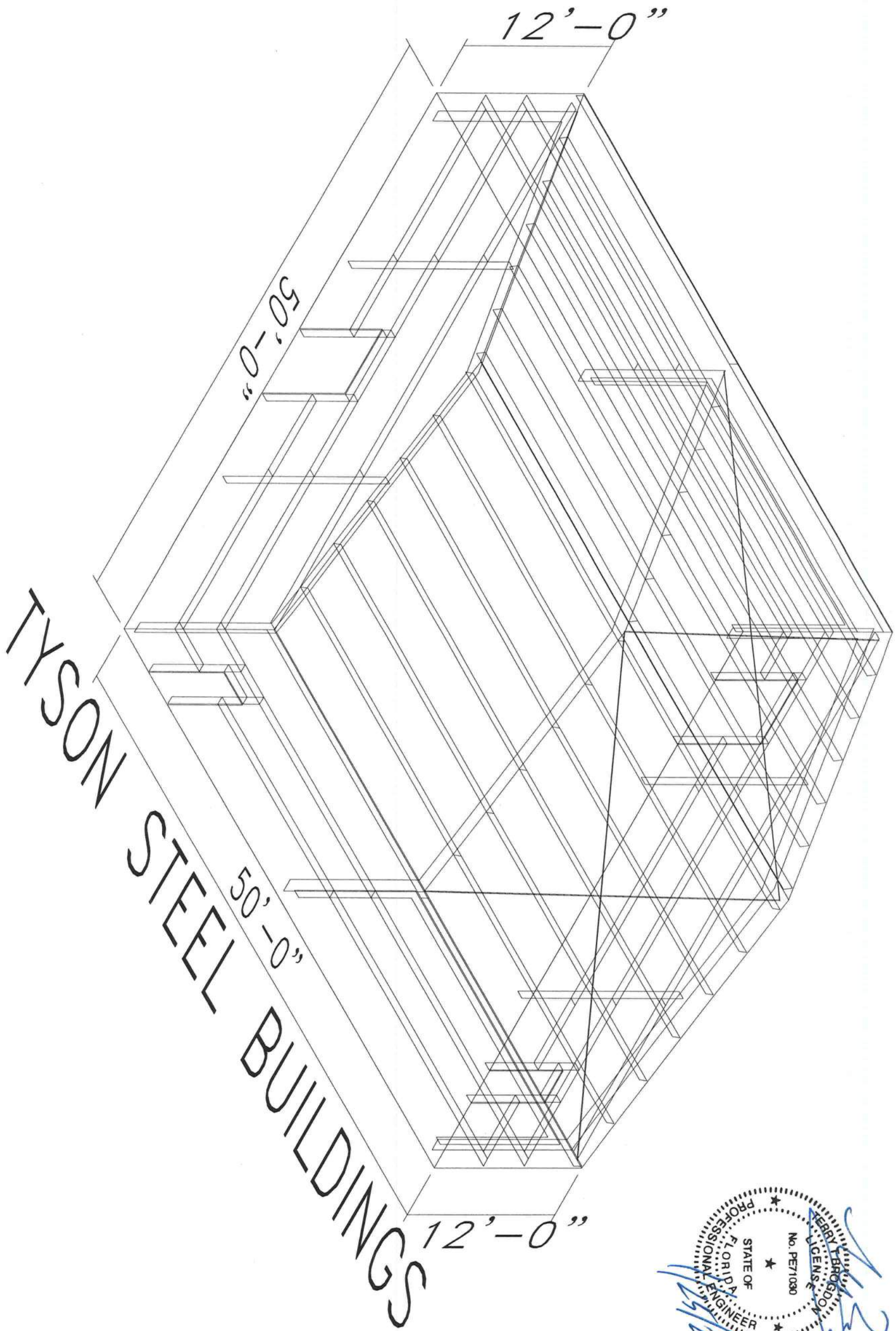
DESIGN CRITERIA NOTES:

- COORDINATE THESE DRAWINGS WITH THE EXISTING CONDITIONS AND ARCHITECTURAL DRAWINGS. CONTRACTOR TO VERIFY ALL DIMENSIONS BEFORE WORK IS STARTED. THE FOUNDATION IS DESIGNED USING A SOIL BEARING CAPACITY OF 2000 PSF. IF THE EXISTING CONDITIONS VARY FROM WHAT IS SHOWN OR IF THE BEARING SOIL CAPACITY IS QUESTIONABLE, THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY.
- ALL STRUCTURAL STEEL SHALL COMPLY WITH THE REQUIREMENTS OF ASTM 992, GRADE 50. CONNECTIONS SHALL BE AS SHOWN ON THE APPROVED DRAWINGS UNLESS APPROVED BY A STRUCTURAL ENGINEER PRIOR TO FABRICATION. CONNECTION BOLTS SHALL BE ASTM A325 UNLESS NOTED OTHERWISE. ALL WELDING TO BE PERFORMED BY A CERTIFIED WELDER AND ADHERING TO AWS D1.1 FOR WELDING OF STRUCTURAL SHAPES.
- ALL LIGHT GAGE COLD FORMED SECTION SHALL BE MANUFACTURED BY PRECISION ROLL OR BRAKE FORMING FROM ASTM 570 WITH MINIMUM YIELD STRESS OF 50,000 PSI.
- ALL STRUCTURAL STEEL AND COLD FORMED SECTIONS SHALL BE FABRICATED AND ERECTED IN STRICT ACCORDANCE TO THE MANUAL OF STEEL CONSTRUCTION AND TO THE METAL BUILDING MANUFACTURER ASSOCIATION CODE OF STANDARD PRACTICES.
- REMOVE ALL TOPSOIL, ROOT SYSTEM OR OTHER DELETERIOUS MATERIAL UNDER PROPOSED FLOOR SLAB AND REPLACE WITH SUITABLE COMPACTED FILL OR CRUSHED STONE. ENGINEERS DECISION ON QUESTIONABLE MATERIAL SHALL BE FINAL.
- ALL BUILDING AREAS SHALL BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT AS DETERMINED IN ACCORDANCE WITH ASTM D698, CURRENT EDITION.
- ALL FOOTINGS TO BE CENTERED UNDER THE COLUMNS OR WALLS THEY SUPPORT, UNLESS NOTED OTHERWISE ON THE DRAWING.
- WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL ALSO APPLY FOR ALL LIKE OR SIMILAR CONDITIONS, UNLESS NOTED OTHERWISE.
- EXTEND ALL FOOTING REINFORCEMENT TO FAR SIDE OF FOOTING, TYPICALLY ALLOWING 3 INCHES OF COVER.
- ALL CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI AND SHALL BE REINFORCED WITH FIBERESH AT THE RATE OF 1.5 POUNDS PER CUBIC YARD OF CONCRETE.
- CONCRETE REINFORCING STEEL SHALL COMPLY WITH THE REQUIREMENTS OF ASTM A615, GRADE 60 AND FREE OF ANY FORM RELEASE AGENTS. ALL ANCHOR BOLTS SHALL BE SIZE AND STRENGTH SPECIFIED. WELDED WIRE MESH SHALL BE IN ACCORDANCE WITH ASTM A-185.



AGRICULTURAL &
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ALL STEEL BUILDING
COMPONENTS

CODE & LOADING FOR BUILDING		
CODE	:	FBC 23
IMPORTANCE	:	
WIND	:	1.00
SNOW	:	
SEISMIC	:	1.00
SEISMIC ZONE	:	B
WIND EXPOSURE	:	C
ROOF DEAD	:	2.00
ROOF LIVE	:	20.00
ROOF SNOW	:	0.00
COLLATERAL	:	3.00
ULTIMATE WIND	:	117



Professional Engineer
State of Florida
No. PE71030
12/24

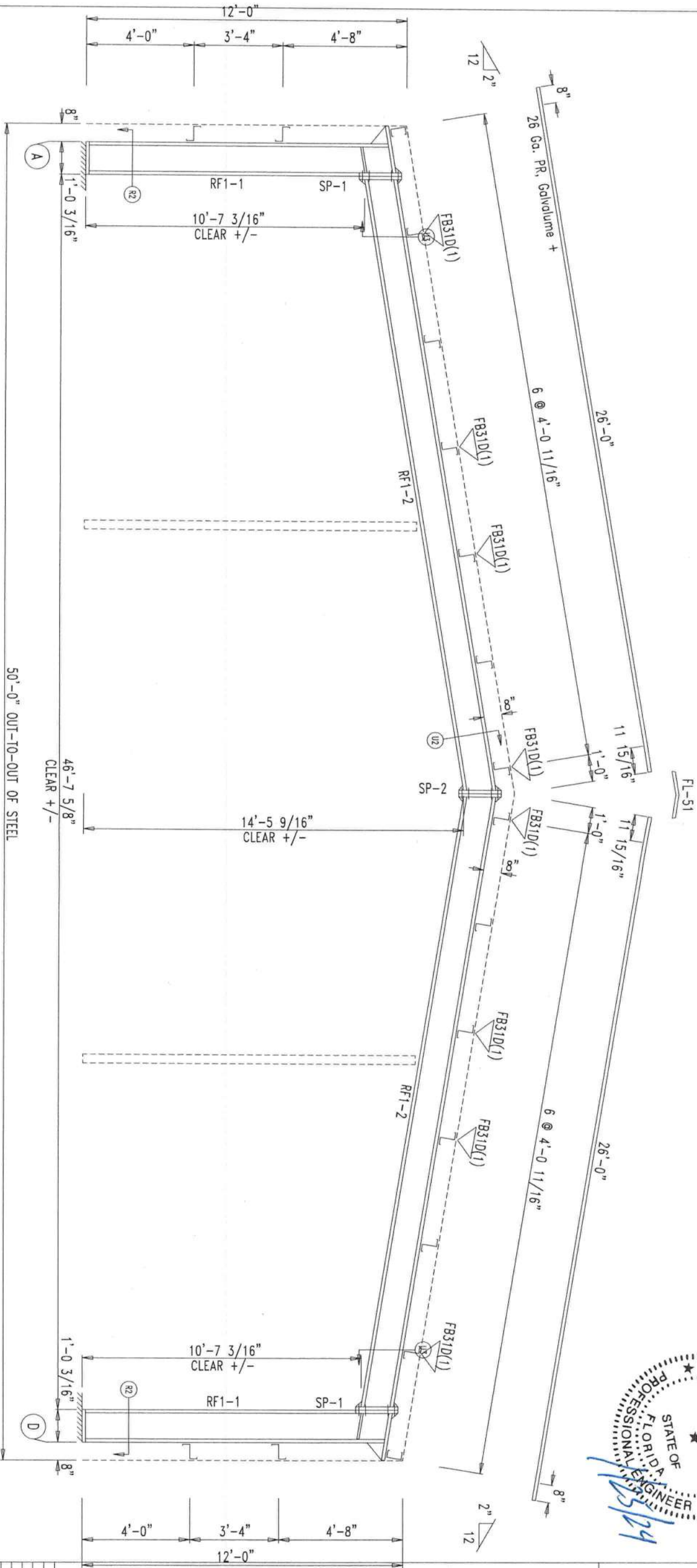
SPICE BOLT TABLE					
Mark	Qty	Top	Bot	Int	Type
SP-1	4	4	4	0	A325
SP-2	4	4	4	0	A325
					Dia
					Length

FLANGE BRACES: Both Sides(U.N.)
FBxD(1): xx=length(in)
D - FB3X12G

MEMBER SIZE TABLE			
MARK	MEMBER	LENGTH	WEIGHT
RF1-1	W12X19	11'-5 1/4"	285
RF1-2	W12X14	23'-7 1/8"	374

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ALL STEEL BUILDING
COMPONENTS
361 DODD ROAD
DOVER, GEORGIA
31744
(O) 229-776-7588
(F) 229-776-3509



PROPOSED BUILDING FOR:
Northside Baptist Church
50'-0\"/>

RIGID FRAME ELEVATION: FRAME LINE 1 3

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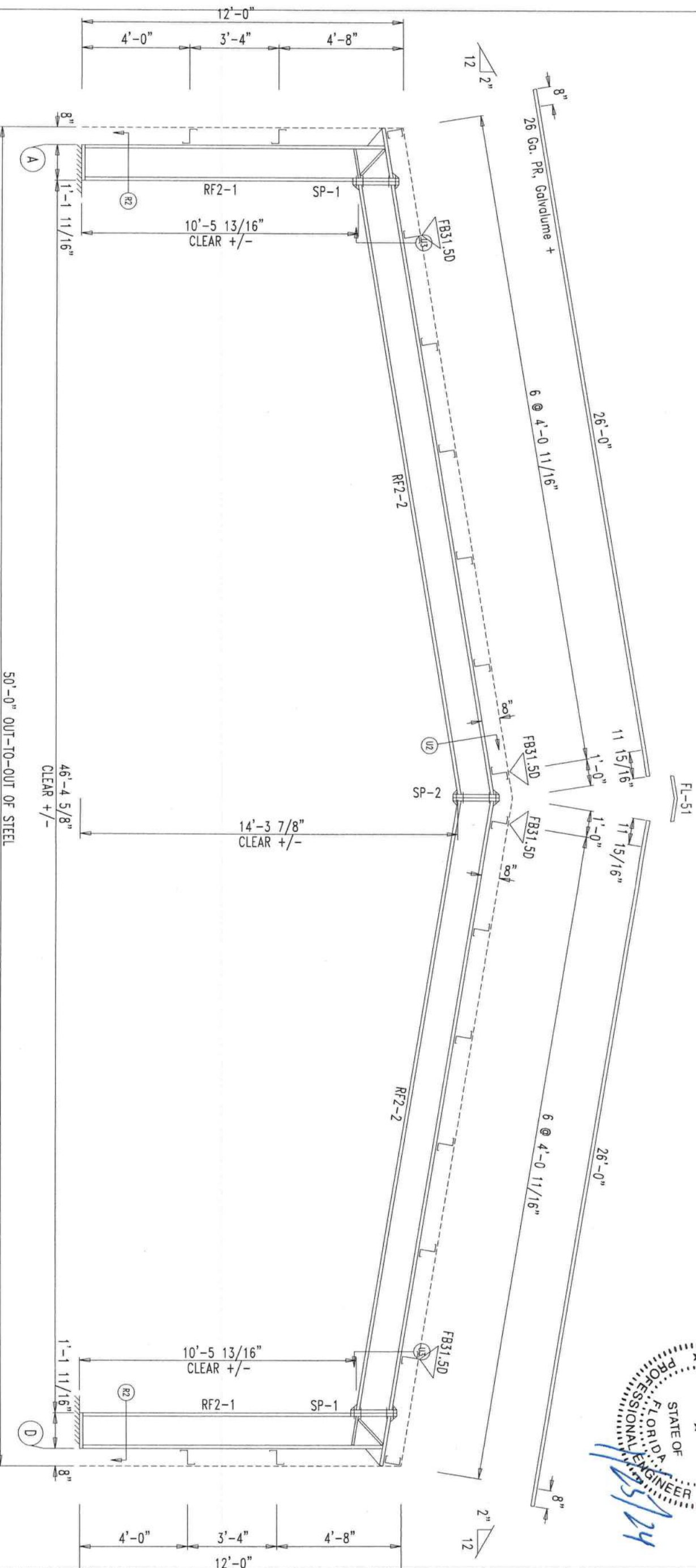
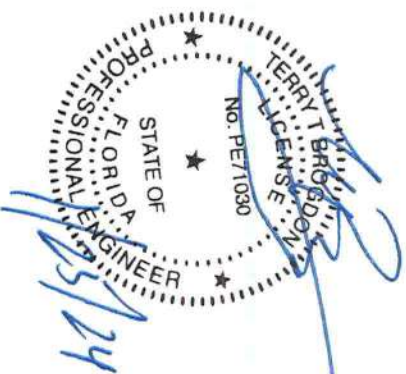
SPLICE BOLT TABLE						
Mark	Qty	Top	Bot	Int	Type	Dia
SP-1	4	4	4	0	A325	0.750
SP-2	4	4	4	0	A325	0.750

FLANGE BRACES: Both Sides(U.N.)
FBxxD(1): xx=length(in)
D - FB3X12G

MEMBER SIZE TABLE				
MARK	MEMBER	LENGTH	WEIGHT	
RF2-1	W14X22	11'-5 1/4"	319	
RF2-2	W14X22	23'-5 1/2"	573	

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COMPONENTS
381 DODD RD
DOVER, GEORGIA
31744
(770) 226-7768
(770) 226-7768-3509



PROPOSED BUILDING FOR:
Northside Baptist Church
50'-0" x 50'-0" x 12'-0"
Lake City, FL

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RIGID FRAME ELEVATION

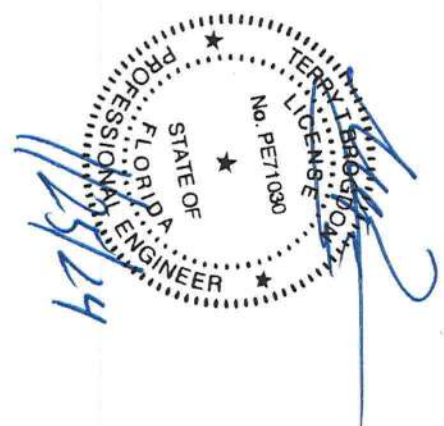
RIGID FRAME ELEVATION: FRAME LINE 2

BOLT TABLE				
FRAME LINE 1		QUAN	TYPE	DIA
LOCATION				LENGTH
Columns/Rof		2	A325	5/8" 2"

TRIM TABLE			
FRAME LINE 1		LENGTH	DETAIL
1	Corner	12'-0"	TRIM_25
2	Rake	26'-1"	
3	Rake Cap	6"	
4	Jamb	7'-0"	
5	Head	6'-6"	TRIM_30

MEMBER TABLE			
FRAME LINE 1		MARK	LENGTH
QUAN	MARK	PART	
2	EC-1	W8X10	12'-7" 11'/16"
2	DJ-1	8x25c14	7'-4"
1	DH-1	8x25c14	6'-0"
4	G-1	8X25Z14	15'-6"
1	G-2	8X25Z14	16'-0"
2	G-3	8X25Z14	7'-11" 1/4"
1	G-4	8X25Z14	22'-4"
1	G-5	8X25Z14	22'-4"
1	G-6	8X25Z14	16'-0"

CONNECTION PLATES		
FRAME LINE 1		
1	MARK/PART	
1	d1	



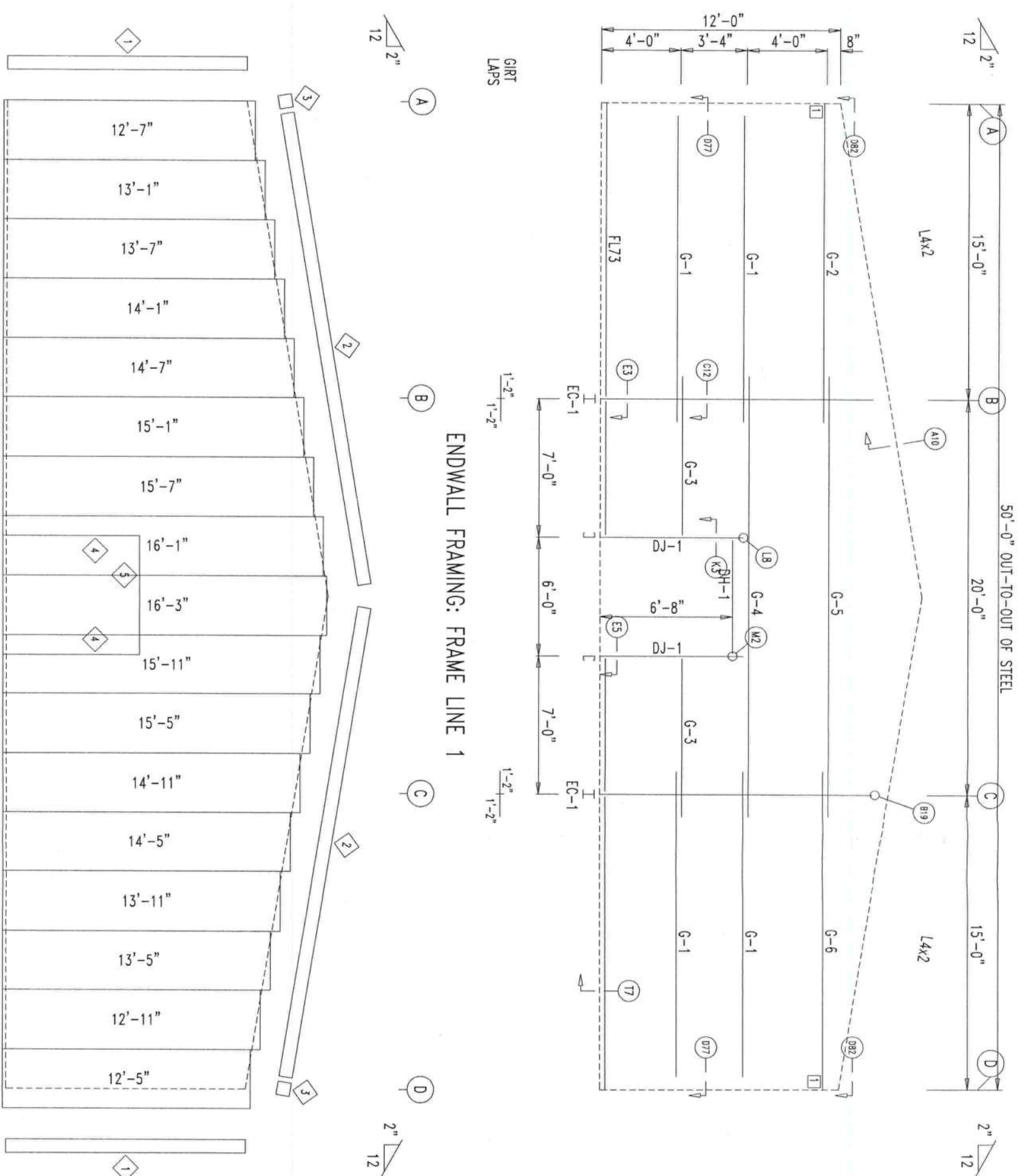
PROPOSED BUILDING FOR:
Northside Baptist Church
50'-0" x 50'-0" x 12'-0"
Lake City, FL

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ALL STEEL BUILDINGS COMPONENTS
361 GORNUM ROAD
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(601) 228-7788
(F) 228-778-5899

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Panel Short 2'-0"

ENDWALL SHEETING & TRIM: FRAME LINE 1
PANELS: 26 Ga. PR - Need Wall Color

ENDWALL FRAMING

BOLT TABLE				
FRAME LINE 3		QUAN	TYPE	DIA
LOCATION				LENGTH
Columns/Rof		2	A325	5/8" 2"

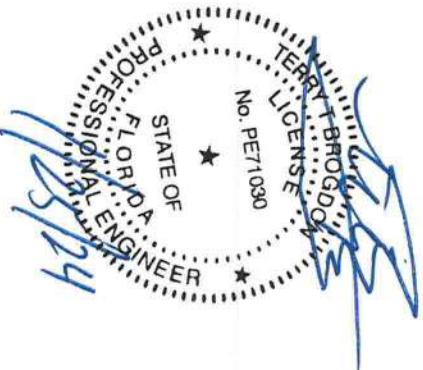
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ALL STEEL BUILDING
COMPONENTS
381 DOERUN ROAD
DOERUN, GEORGIA
31744
(O) 229-776-7588
(F) 229-776-3509

TRIM TABLE			
◇ ID	PART	LENGTH	DETAIL
1	Corner	12'-0"	TRIM_25
2	Rake	26'-1"	
3	Rake Cap	6"	
4	Jamb	6'-4"	TRIM_30
5	Head	3'-6"	
6	Jamb	7'-0"	TRIM_30
7	Head	6'-6"	

MEMBER TABLE			
FRAME LINE 3			
QUAN	MARK	PART	LENGTH
2	EC-1	W8X10	12'-7 11/16"
2	DJ-1	8X25C14	7'-4"
2	DJ-2	8X25C14	7'-4"
1	DH-1	8X25C14	6'-0"
1	DH-2	8X25C14	3'-0"
1	G-2	8X25Z14	16'-0"
3	G-5	8X25Z14	22'-4"
1	G-6	8X25Z14	16'-0"
1	G-7	8X25Z14	5'-1 1/4"
1	G-8	8X25Z14	15'-6"
1	G-9	8X25Z14	6'-11 1/4"
1	G-10	8X25Z14	5'-5 1/4"
1	G-11	8X25Z14	15'-6"
1	G-12	8X25Z14	3'-7 1/4"

CONNECTION PLATES		
FRAME LINE 3		
□ ID	MARK	PART
1	d1	



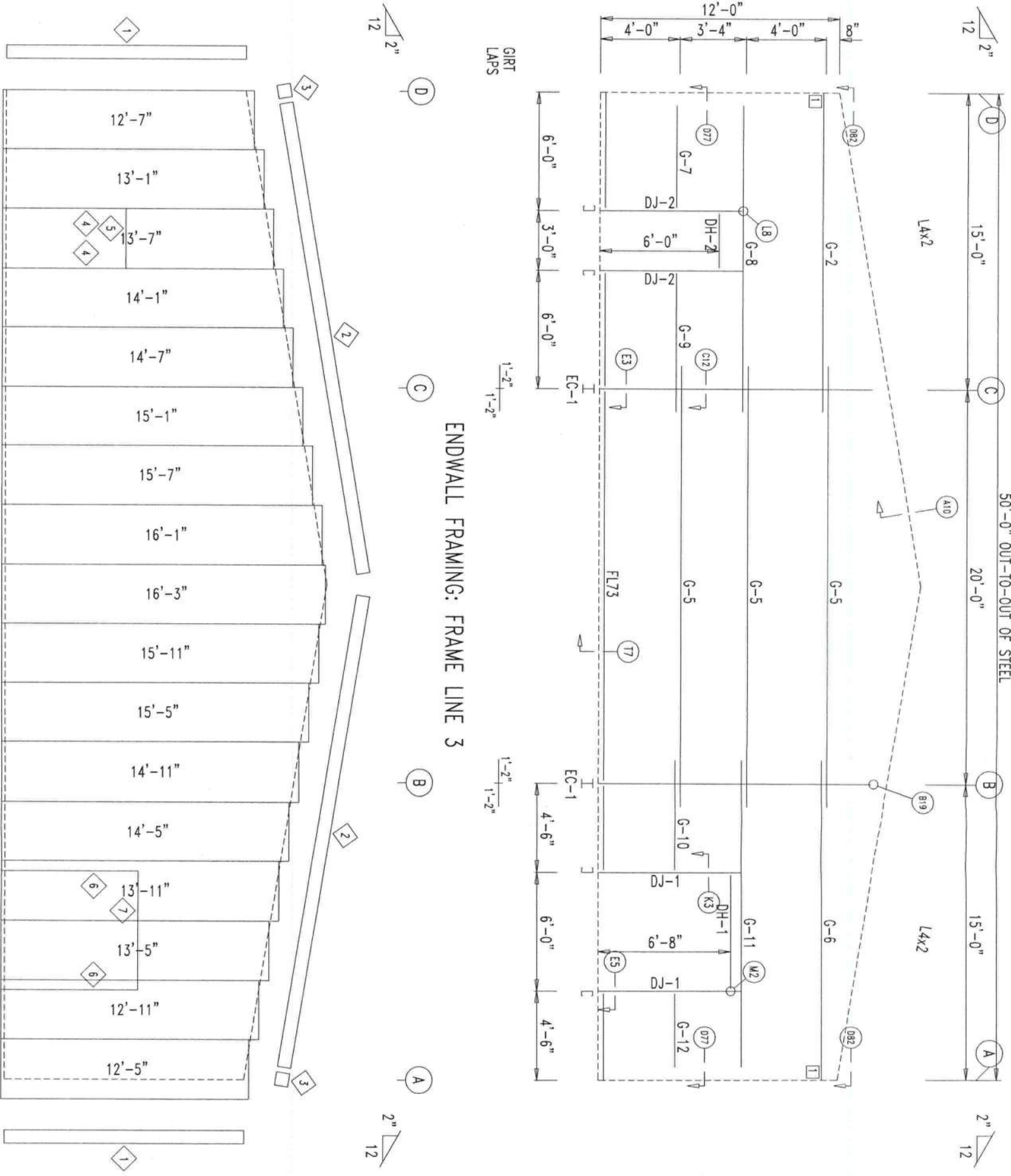
PROPOSED BUILDING FOR:
Northside Baptist Church
50'-0" x 50'-0" x 12'-0"
Lake City, FL

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ENDWALL FRAMING



ENDWALL FRAMING: FRAME LINE 3

ENDWALL SHEETING & TRIM: FRAME LINE 3

PANELS: 26 Ga. PR - Need Wall Color

Panel Start

2'-0"

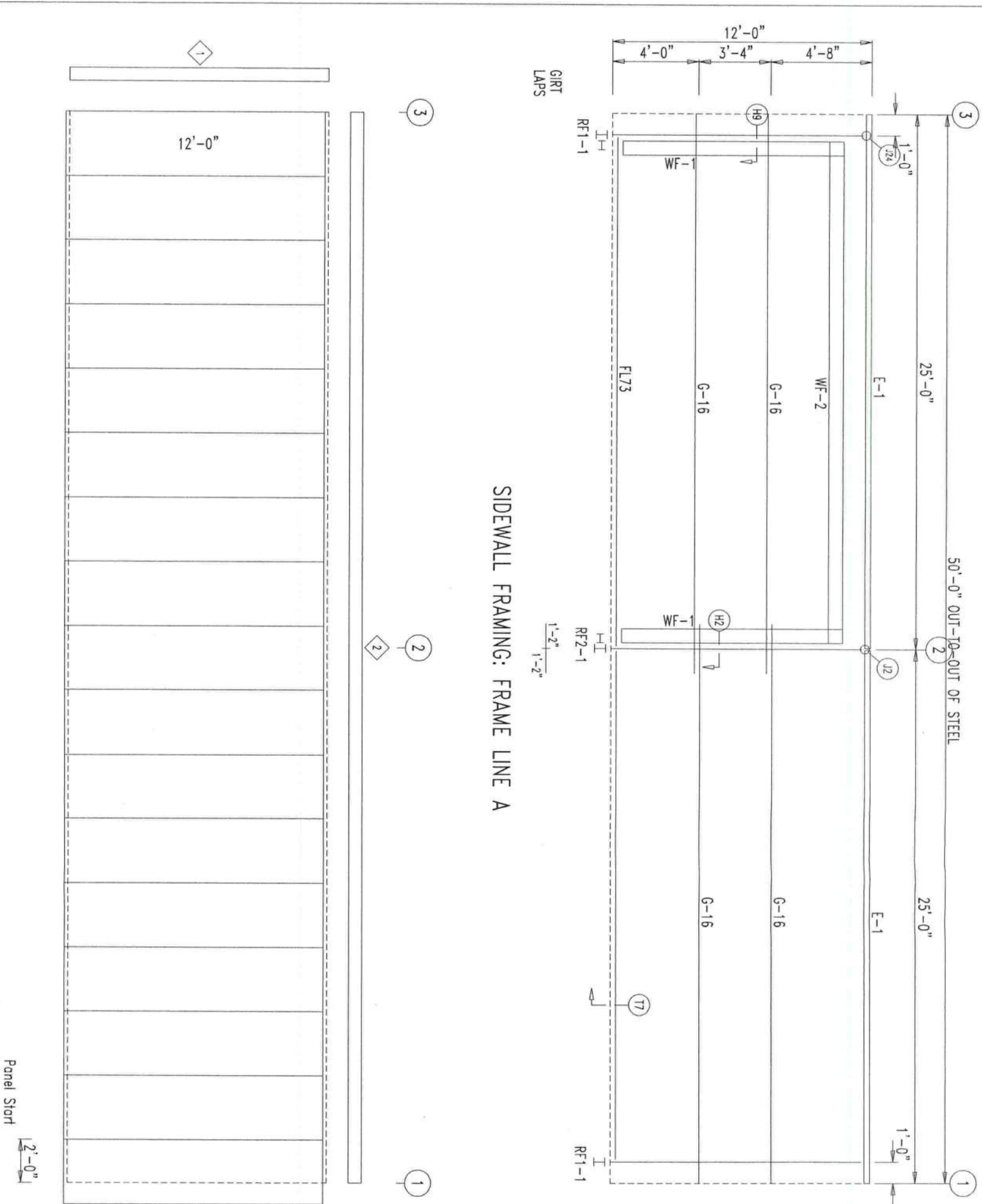
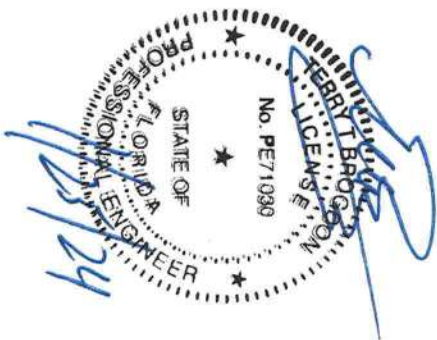
BOLT TABLE				
FRAME LINE A				
LOCATION	QUAN	TYPE	DIA	LENGTH
WF-1 - WF-2	4	A325	5/8"	2 1/2"
WF-1 - RF1-1	10	A325	5/8"	1 3/4"
WF-1 - RF2-1	10	A325	5/8"	1 3/4"

TRIM TABLE			
FRAME LINE A			
◇ ID	PART	LENGTH	DETAIL
1	Corner	12'-0"	TRIM_25
2	Eave	10'-2"	TRIM_13

MEMBER TABLE			
FRAME LINE A			
QUAN	MARK	PART	LENGTH
2	WF-1	WBX10	10'-6"
1	WF-2	WBX24	22'-7 1/8"
2	E-1	8x25C14	25'-0"
4	G-16	8X25Z14	26'-2"

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361 DORRUM ROAD
DORRUM, GEORGIA 31744
(O) 229-778-7989
(F) 229-778-3509

PROPOSED BUILDING FOR:
Northside Baptist Church
50'-0" x 50'-0" x 12'-0"
Lake City, FL



SIDEWALL SHEETING & TRIM: FRAME LINE A
PANELS: 26 Ga. PR - Need Wall Color

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SIDEWALL FRAMING

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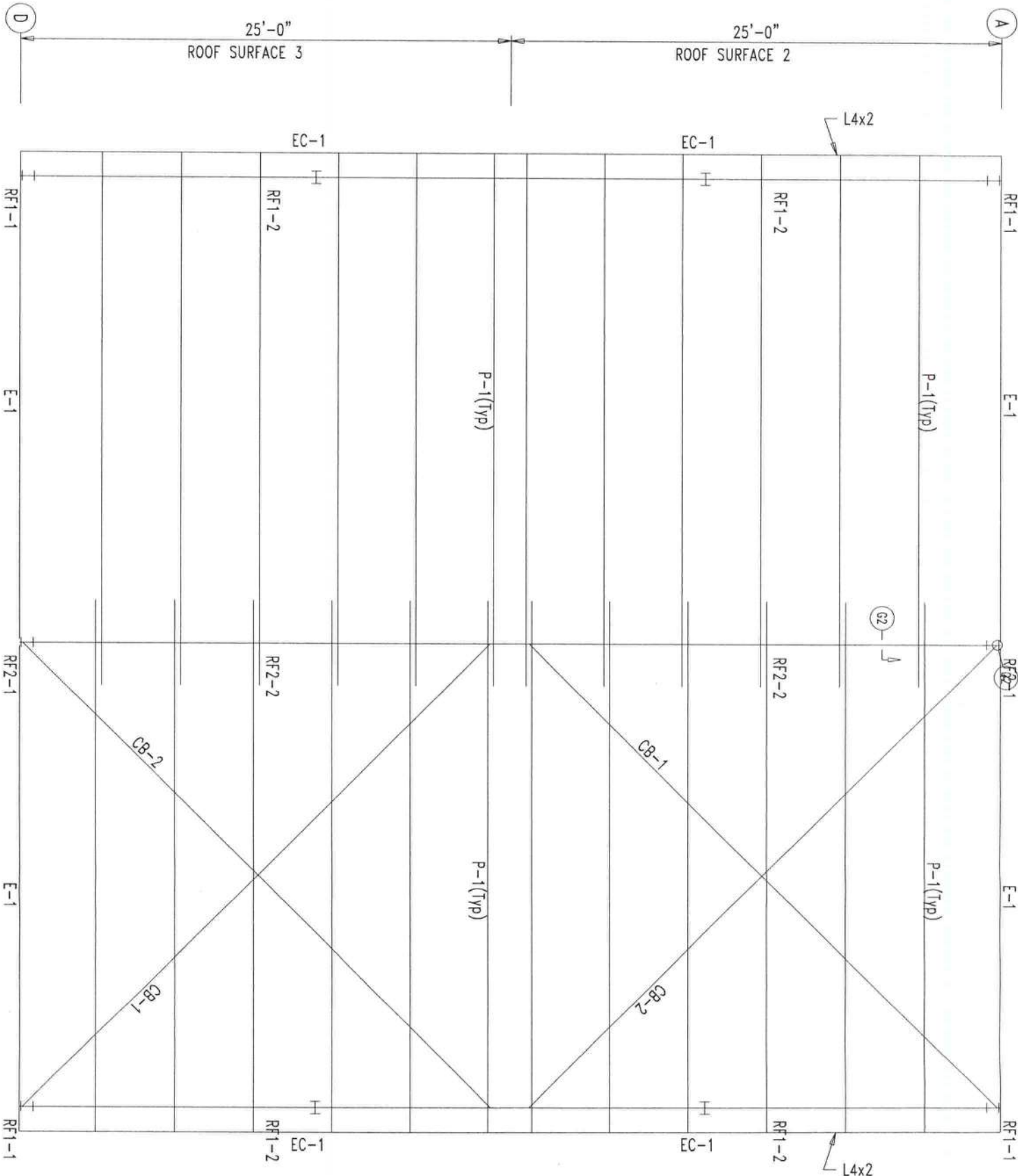
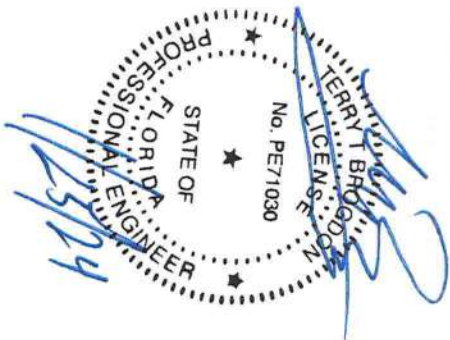
MEMBER TABLE				
ROOF PLAN				
QUAN	MARK	PART	LENGTH	
24	P-1	8X25Z14	27'-2"	
4	E-1	8X25C14	25'-0"	
2	CB-1	CB12500	33'-0"	
2	CB-2	CB12500	33'-10"	

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ALL STEEL BUILDING
COMPONENTS

361 DORRIN ROAD
DOERLIN, GEORGIA
31744

(707) 228-7788
(707) 228-7788-5589



ROOF FRAMING PLAN

ROOF FRAMING

PROPOSED BUILDING FOR:
Northside Baptist Church
50'-0" x 50'-0" x 12'-0"
Lake City, FL

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NOTES FOR REACTIONS

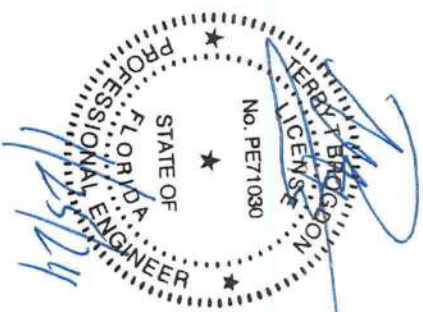
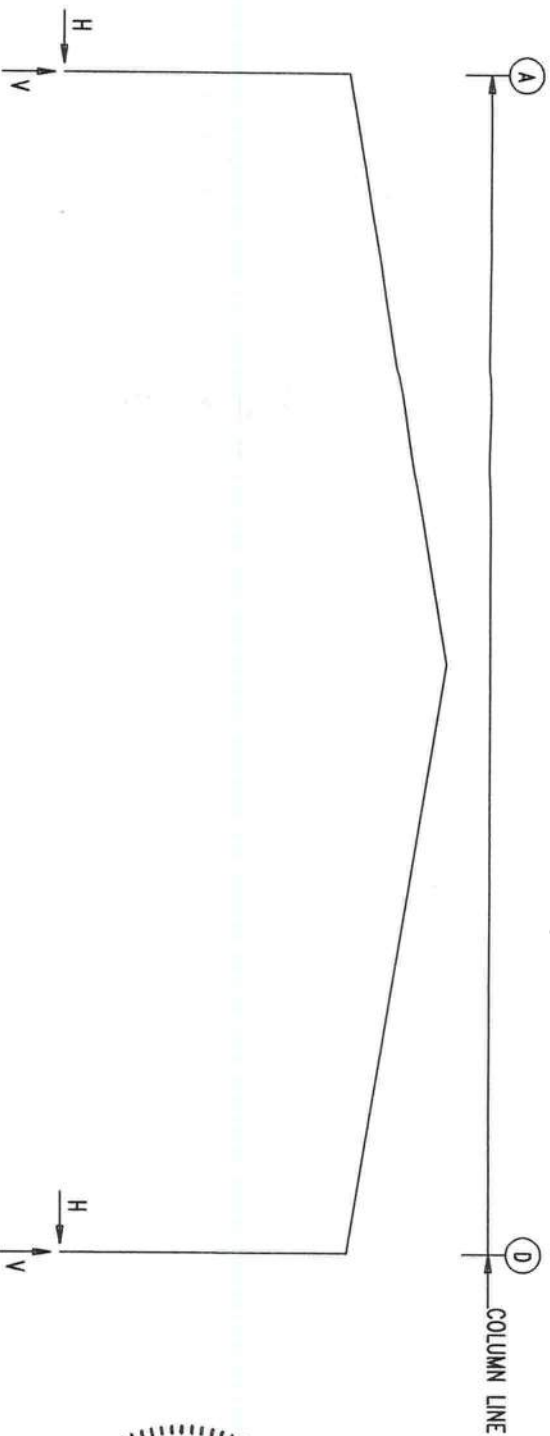
- 1. All loading conditions are examined and only maximum/minimum H or V and the corresponding H or V are reported.
- 2. Positive reactions are as shown in the sketch. Foundation loads are in opposite directions.
- 3. Bracing reactions are in the plane of the brace with the H pointing away from the braced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

Width (ft)	=	50.0
Length (ft)	=	50.0
Eave Height (ft)	=	12.0/ 12.0
Roof Slope (rise/12)	=	2.0/ 2.0
Dead Load (psf)	=	2.0
Collateral Load (psf)	=	3.0
Roof Live Load(psf)	=	20.0
Frame Live Load(psf)	=	12.0
Wind Speed (mph)	=	117.0
Wind Code	=	FBC 23
Exposure	=	C
Closure	=	Enclosed
Importance Wind	=	1.00
Importance Seismic	=	1.00
Seismic Zone	=	B
Seismic Coeff (Fa*Sa)	=	0.15

5. Loading conditions are:

- 1 Dead+Collateral+Live
- 2 0.6Dead+0.6Wind_Left1
- 3 0.6Dead+0.6Wind_Right1
- 4 0.6Dead+0.6Wind_Long1L
- 5 0.6Dead+0.6Wind_Long2L
- 6 0.6Dead+0.6Wind_Right2+0.6Wind_Suction
- 7 0.6Dead+0.6Wind_Pressure+0.6Wind_Long2L
- 8 Dead+0.6Wind_Right2+0.6Wind_Suction

FRAME LINES: 1 2 3



RIGID FRAME:

MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Column_Reactions(k)			Load Id	V			Bolt(in) Qty	Dia	Base_Plate(in)			Thick	Grout (in)
		Load Id	Hmax	Vmax		Hmin	Vmin				Width	Length			
1*	A	1	3.4	6.1	2	-2.4	-3.4	4	0.750	6.000	12.50	0.500	0.0		
1*	D	3	2.4	-3.4	1	-0.7	-4.0	4	0.750	6.000	12.50	0.500	0.0		
Frame lines:		1	3	6.1	5	-3.4	6.1	4	0.750	6.000	12.50	0.500	0.0		

RIGID FRAME:

MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Column_Reactions(k)			Load Id	V			Bolt(in) Qty	Dia	Base_Plate(in)			Thick	Grout (in)
		Load Id	Hmax	Vmax		Hmin	Vmin				Width	Length			
2	A	1	7.4	13.6	2	-5.4	-8.1	4	0.750	6.000	14.00	0.500	0.0		
2	D	3	5.4	-8.1	1	-7.4	13.6	4	0.750	6.000	14.00	0.500	0.0		
Frame lines:		1	3	13.6	5	-7.4	13.6	4	0.750	6.000	14.00	0.500	0.0		

BUILDING BRACING REACTIONS

Frm Line	Col Line	Column_Reactions(k)			Load Id	V			Bolt(in) Qty	Dia	Base_Plate(in)			Thick	Grout (in)
		Load Id	Hmax	Vmax		Hmin	Vmin				Width	Length			
1	B	6	1.6	0.1	7	-1.5	0.1	4	0.750	6.000	8.000	0.500	0.0		
1	C	6	1.6	0.1	7	-1.5	0.1	4	0.750	6.000	8.000	0.500	0.0		
3	C	6	1.6	0.1	7	-1.5	0.1	4	0.750	6.000	8.000	0.500	0.0		
3	B	6	1.6	0.1	7	-1.5	0.1	4	0.750	6.000	8.000	0.500	0.0		

—Wall—		Col		± Reactions(k)		Panel Shear (lb/ft)		Note
Loc	Line	Line	Horz	Wind	Seismic	Wind	Seis	
L _{EW}	1							(h)
F _{SW}	D	2,3	1.7	1.5	0.2	0.1		(b)
R _{EW}	3							(h)
B _{SW}	A	2,3	1.7	1.5	0.2	0.1		(b)
(b)Wind bent in bay, base above finish floor								
(h)Rigid frame at endwall								
Reactions for seismic represent shear force, Eh								

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PROPOSED BUILDING FOR: Northside Baptist Church 50'-0" x 50'-0" x 12'-0" Lake City, FL

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ANCHOR BOLT REACTIONS

ALL DIMENSIONS SHALL BE TO THE CENTERLINE OF THE MEMBER UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE, AND FEDERAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE, AND FEDERAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE, AND FEDERAL AUTHORITIES.

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