

A325 BOLT TIGHTENING REQUIREMENTS:

All High strength bolts are A325-N Unless noted otherwise.

Structural bolts shall be tightened by the snug tight method in accordance with the 2014 edition AISC "Specification for Structural Joints" using ASTM A325 or A490 Bolts. When Specifically required, A325-N bolts are Supplied without washer unless noted on the drawings as provided by MANUFACTURER.

All bolted connections unless noted are designed as bearing type connections with threads not excluded from the shear plane.



LARIAT STEEL DESIGN

78 AIRPORT LANE ----- ADEL, GEORGIA 31620

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DRAWING LEGEND

CVR-COVER PAGE
01-ANCHOR BOLT PLAN
02-ANCHOR BOLT DETAILS
03-ANCHOR BOLT REACTIONS
04-ANCHOR BOLT REACTIONS
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22-JACK FRAMES
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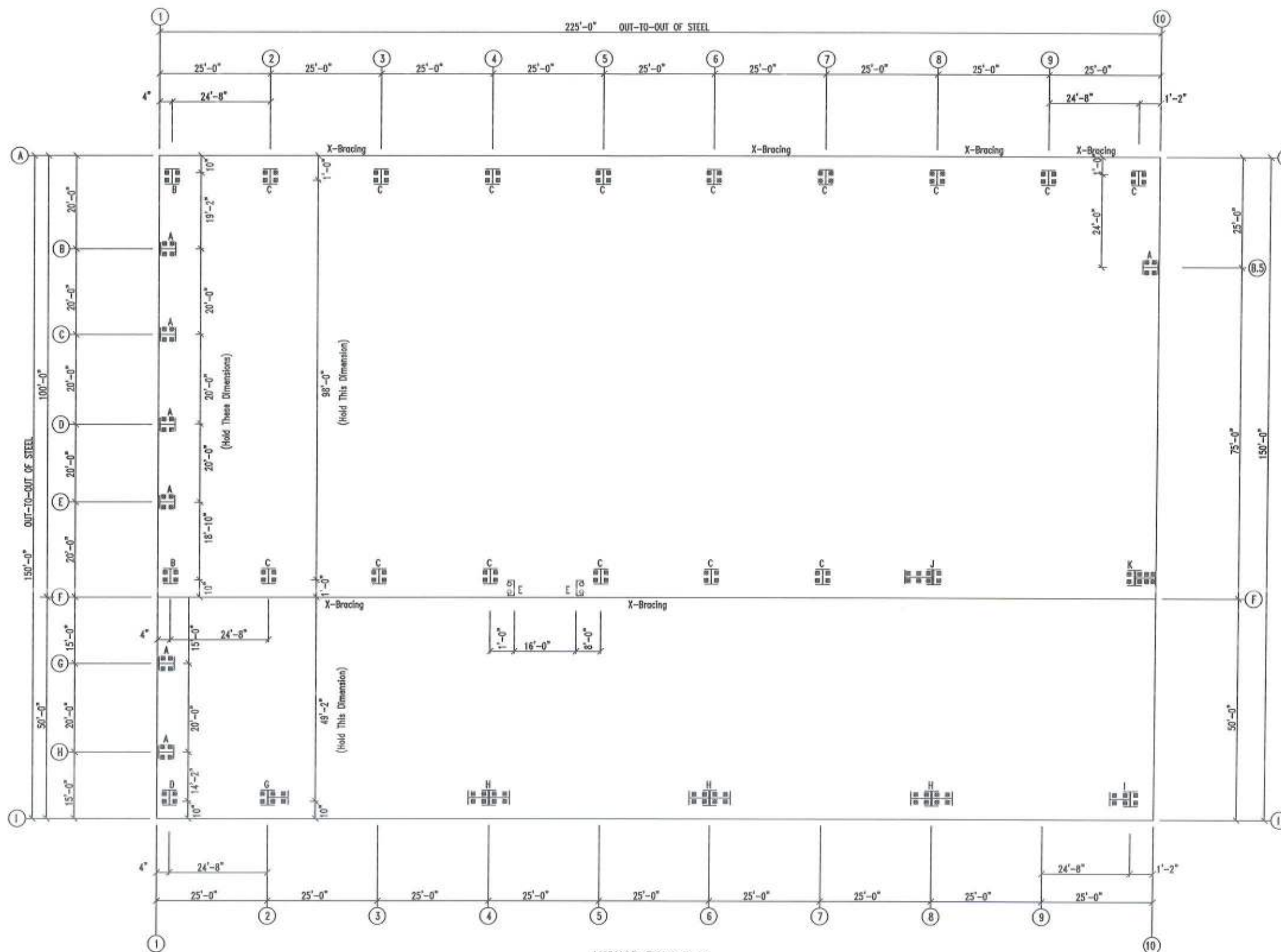


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2149 Neil Purvis Road
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Ag 5 Dh
3-26-20

CUSTOMER: ASSIGN COMMERCIAL GROUP
PROJECT NAME: CAPITAL METALS SUPPLY

C.D.#: 19-173
DRAFTER: RLH
DATE: 9/3/19



ANCHOR BOLT PLAN
NOTE: All Base Plates @ 100'-0" (U.M.)



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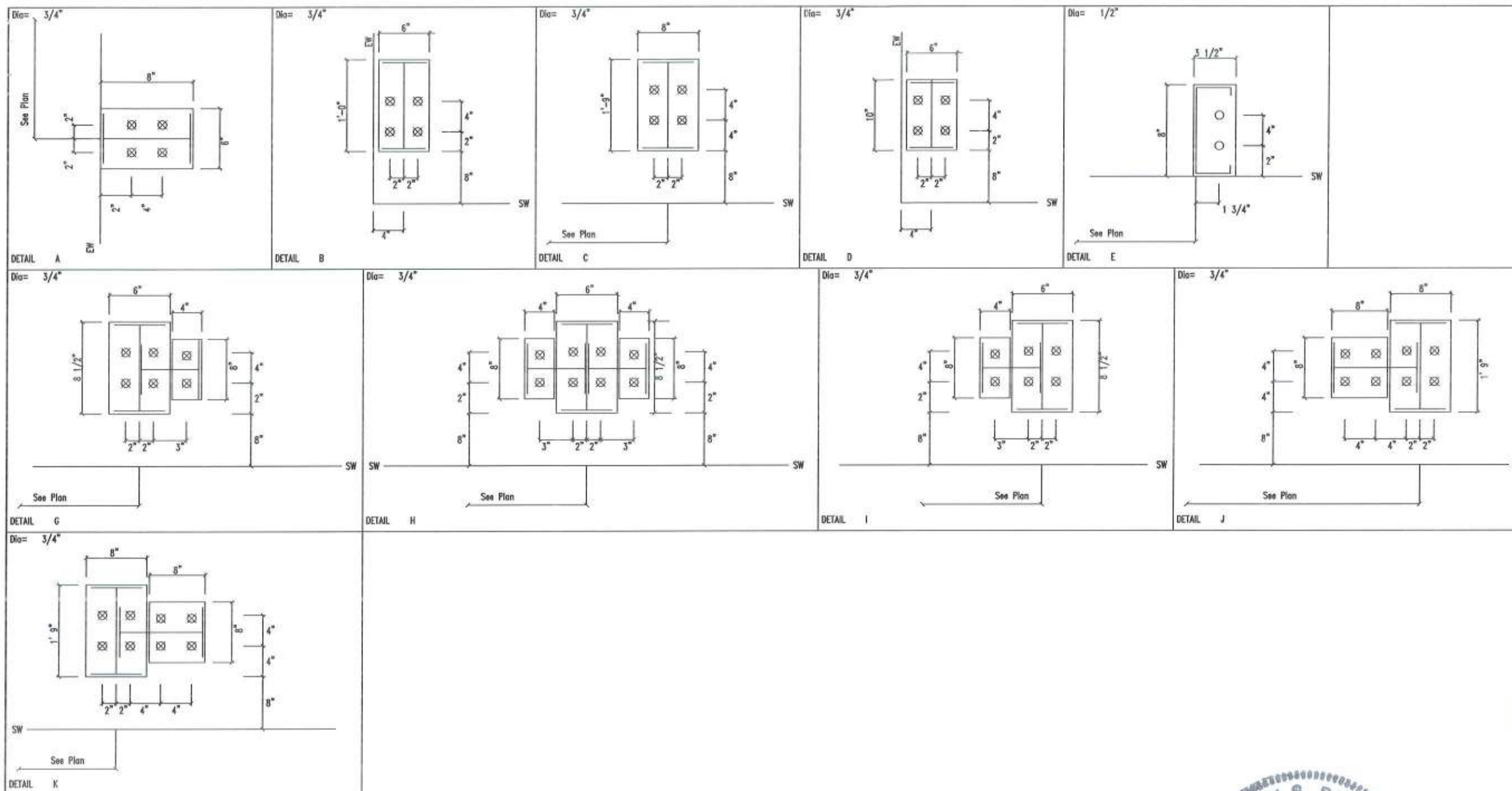


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REVISION	DATE	BY
A		
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J		

DESIGN CRITERIA	
BUILDING CODE:	FBC 17
LIVE LOAD:	20.00 PSF
LIVE LOAD REDUCTION:	Yes
COLLATERAL LOAD:	0.5 PSF
SNOW LOAD:	0 PSF
WIND LOAD: (3 SECOND GUST)	120 MPH
WIND IMPORTANCE FACTOR:	1.00
WIND EXPOSURE:	C
CATEGORY: (SEISMIC USE GROUP)	II - Normal

JOB NAME:	CAPITAL METALS SUPPLY	ID:	19-173
JOB LOCATION:	LAKE CITY, FL		
DWN:	RLH	DATE:	9/11/19
SCALE:	N.T.S.		
DRAWING TITLE:	ANCHOR BOLT PLAN		
			1 OF 25



GENERAL NOTES



LARIAT STEEL DESIGN
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REVISION	DATE	BY
A		
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3-26-20

DESIGN CRITERIA	
BUILDING CODE:	FBC 17
LIVE LOAD:	20.00 PSF
LIVE LOAD REDUCTION:	Yes
COLLATERAL LOAD:	0.5 PSF
SNOW LOAD:	0 PSF
WIND LOAD: (3 SECOND GUST)	128 MPH
WIND IMPORTANCE FACTOR:	1.00
WIND EXPOSURE:	C
CATEGORY: (SEISMIC USE GROUP)	II - Normal

JOB NAME:	CAPITAL METALS SUPPLY	ID:	19-173
JOB LOCATION:	LAKE CITY, FL		
DATE:	9/11/19	SCALE:	N.T.S.
DRW:	RLH	DRAWING:	ANCHOR BOLT DETAILS
			2 OF 25

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)	=	100.0
Length (ft)	=	225.0
Eave Height (ft)	=	25.5/ 25.5
Roof Slope (rise/run)	=	2.0/ 2.0
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)	=	128.0
Wind Code	=	IBC 17 (IBC 15)
Exposure	=	C
Closed/Open	=	C
Importance Wind	=	1.00
Importance Seismic	=	1.00
Seismic Zone	=	B
Seismic Coeff (F _o /S _s)	=	0.18

- ```

1 Ddead+Collateral+Live
2 Ddead+0.6Wind_Long1R
3 Ddead+Collateral+0.75Live+0.45Wind_Right1
4 Ddead+Collateral+0.75Live+0.45Wind_Long2L
5 Ddead+Collateral+0.75Live+0.45Wind_Long2R
6 0.6Ddead+0.6Wind_Left1
7 0.6Ddead+0.6Wind_Right1
8 0.6Ddead+0.6Wind_Long1L
9 0.6Ddead+0.6Wind_Long1R
10 0.6Ddead+0.6Wind_Long2L
11 0.6Ddead+0.6Wind_Long2R
12 1.02Ddead+1.02Collateral+0.75Seismic_Right1
13 Ddead+Collateral+F2PAT_11_1
14 Ddead+Collateral+F3PAT_11_1
15 Ddead+Collateral+F4PAT_11_1
16 0.6Ddead+0.6Wind_Right2+0.6Wind_Section
17 0.6Ddead+0.6Wind_Pressure+0.6Wind_Long2L
18 Ddead+Collateral+E1PAT_11_6
19 Ddead+Collateral+E2PAT_11_2

```

| Fire Date       | Col Line | Column Headings (x) |        |        |         |        | Y Yrsh | End(Yr)  | Bsm/Yrsh(x) | Totals | Gross (m) |     |
|-----------------|----------|---------------------|--------|--------|---------|--------|--------|----------|-------------|--------|-----------|-----|
|                 |          | Local M             | Head M | Wrench | Local M | Head M |        |          |             |        |           |     |
| 2 <sup>nd</sup> | A        | 6                   | 26.5   | -5.2   | 1       | -18.9  | 4.1    | 12 1.000 | 18.00       | 24.50  | 1.250     | 0.0 |
|                 |          | 12                  | 1.6    |        |         | 26.5   | -6.1   |          |             |        |           |     |
|                 |          | 6                   | 19.9   | -45.3  | 1       | -25.4  | 89.6   | 12 1.000 | 18.00       | 24.50  | 1.250     | 0.0 |
|                 |          | 1                   | -25.4  | 89.6   | 10      | 17.5   | -961.6 |          |             |        |           |     |

| Loc          | Wall<br>Line | Col<br>Line | ± Reactions(k) |      | Seismic |      | Panel Shear<br>(lb/ft) |      | Notes |
|--------------|--------------|-------------|----------------|------|---------|------|------------------------|------|-------|
|              |              |             | Horz           | Vert | Horz    | Vert | Wind                   | Seis |       |
| L_EW<br>F_SW | 1<br>F       | 3,4         | 3.0            | 3.0  | 0.3     | 0.3  |                        |      | (h)   |
|              |              | 5,6         | 3.0            | 3.0  | 0.3     | 0.3  |                        |      |       |
|              |              | 7,8         | 3.0            | 3.0  | 0.3     | 0.3  |                        |      |       |
|              |              | 9,10        | 3.0            | 3.2  | 0.3     | 0.3  |                        |      |       |
| R_EW<br>B_SW | 10<br>A      | 10,9        | 4.7            | 4.7  | 0.6     | 0.6  |                        |      | (h)   |
|              |              | 8,7         | 4.7            | 4.5  | 0.6     | 0.6  |                        |      |       |
|              |              | 6,5         | 4.7            | 4.5  | 0.6     | 0.6  |                        |      |       |
|              |              | 4,3         | 4.7            | 4.5  | 0.6     | 0.6  |                        |      |       |
|              |              |             |                |      |         |      |                        |      |       |

| Qty | Locate  | Dis<br>(in) | Type | Total<br>Len<br>(in) | Bend<br>Len<br>(in) | Proj<br>(in) |
|-----|---------|-------------|------|----------------------|---------------------|--------------|
| 4   | Jamb    | 1/2"        | A307 | 3.75                 |                     | 1.50         |
| 28  | Endwall | 5/4"        | A307 |                      |                     | 2.50         |
| 76  | Frame   | 5/4"        | A307 |                      | 3.00                | 2.50         |

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| Frm Line | Col Line | Dead Ver | Wind Press Horz | Wind Suct Horz |
|----------|----------|----------|-----------------|----------------|
| 1        | B        | 0.5      | -7.9            | 8.7            |
| 1        | C        | 0.6      | -8.9            | 9.6            |
| 1        | D        | 0.6      | -8.9            | 9.6            |
| 1        | E        | 0.5      | -7.9            | 8.7            |
| 10       | B.5      | 0.4      | -5.6            | 6.2            |

| ENDWALL COLUMN: |          |                      |        |     |      |         |     |          |       |                |       |        |            | MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES |  |  |  |
|-----------------|----------|----------------------|--------|-----|------|---------|-----|----------|-------|----------------|-------|--------|------------|------------------------------------------------|--|--|--|
| Frm Line        | Col Line | Column_Reactions(k ) |        |     |      |         | V   | Bolt(In) | Dia   | Base_Plate(In) |       |        | Grcut (In) |                                                |  |  |  |
|                 |          | Load Id              | Hmax H | V   | Ymax | Load Id |     |          |       | Hmin H         | Width | Length |            | Thick                                          |  |  |  |
| 1               | B        | 16                   | 5.2    | 0.3 | 17   | -4.7    | 0.3 | 4        | 0.750 | 6.000          | 8.500 | 0.500  | 0.0        |                                                |  |  |  |
|                 |          | 18                   | 0.0    | 0.5 |      |         |     |          |       |                |       |        |            |                                                |  |  |  |
| 1               | C        | 16                   | 5.9    | 0.4 | 17   | -5.3    | 0.4 | 4        | 0.750 | 6.000          | 8.500 | 0.500  | 0.0        |                                                |  |  |  |
|                 |          | 12                   | 0.0    | 0.6 |      |         |     |          |       |                |       |        |            |                                                |  |  |  |
| 1               | D        | 16                   | 5.9    | 0.4 | 17   | -5.3    | 0.4 | 4        | 0.750 | 6.000          | 8.500 | 0.500  | 0.0        |                                                |  |  |  |
|                 |          | 12                   | 0.0    | 0.6 |      |         |     |          |       |                |       |        |            |                                                |  |  |  |
| 1               | E        | 16                   | 5.2    | 0.3 | 17   | -4.7    | 0.3 | 4        | 0.750 | 6.000          | 8.500 | 0.500  | 0.0        |                                                |  |  |  |
|                 |          | 18                   | 0.0    | 0.5 |      |         |     |          |       |                |       |        |            |                                                |  |  |  |
| 10              | B.5      | 16                   | 3.7    | 0.3 | 17   | -3.4    | 0.3 | 4        | 0.750 | 6.000          | 8.500 | 0.500  | 0.0        |                                                |  |  |  |
|                 |          | 18                   | 0.0    | 0.4 |      |         |     |          |       |                |       |        |            |                                                |  |  |  |

| Frm Line | Col Line | Column Reactions (k) |             |                 |         |             |                 | Bolt Qty | Dia   | Base Plate(in) |        | Thick | Grout (in) |
|----------|----------|----------------------|-------------|-----------------|---------|-------------|-----------------|----------|-------|----------------|--------|-------|------------|
|          |          | Load Id              | Hmax II     | V Vmax          | Load Id | Hmin II     | V Vmin          |          |       | Width          | Length |       |            |
| 10       | A        | 7<br>9               | 7.5<br>7.4  | 6.5<br>6.7      | 1       | -7.7        | -6.0            | 12       | 1.000 | 16.00          | 24.50  | 1.250 | 0.0        |
| 10       | F        | 7<br>1               | 6.1<br>-6.9 | -263.4<br>323.8 | 1<br>10 | -6.9<br>1.1 | 323.8<br>-344.3 | 12       | 1.000 | 16.00          | 24.50  | 1.250 | 0.0        |
| 10       | B.5      | 8<br>1               | 0.0<br>0.0  | -13.8<br>15.6   | 8       | 0.0         | -13.8           | 4        | 0.750 | 8.000          | 8.000  | 0.375 | 0.0        |
| 10       | Ø50.0    | 9<br>1               | 0.0<br>0.0  | -5.3<br>9.6     | 9       | 0.0         | -5.3            | 4        | 0.750 | 8.000          | 8.000  | 0.375 | 0.0        |
| 10       | Ø75.0    | 4<br>2               | 0.0<br>0.0  | -3.1<br>4.3     | 5       | 0.0         | -3.1            | 4        | 0.750 | 8.000          | 8.000  | 0.375 | 0.0        |

| Frm | Col | Column Reactions(k) |      |       |      | Minin        | V             | Bolt | Dia   | Base  | Plate | Length | Thick | Grout |
|-----|-----|---------------------|------|-------|------|--------------|---------------|------|-------|-------|-------|--------|-------|-------|
|     |     | Load                | Hmax | Vmax  | Load |              |               |      |       |       |       |        |       |       |
| 1   | A   | 14                  | 6.3  | 11.3  | 6    | -7.1<br>-4.7 | -9.4<br>-13.0 | 4    | 0.750 | 6.000 | 11.00 | 0.500  | 0.0   |       |
| 1   | F   | 7                   | 6.1  | -13.6 | 14   | -6.3         | 12.5          | 4    | 0.750 | 6.000 | 11.00 | 0.500  | 0.0   |       |
|     |     | 1                   | -6.2 | 16.3  | 11   | 1.6          | -15.4         |      |       |       |       |        |       |       |

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| REVISION |  | DATE | BY |
|----------|--|------|----|
| A        |  |      |    |
| B        |  |      |    |
| C        |  |      |    |
| D        |  |      |    |
| E        |  |      |    |
| F        |  |      |    |
| G        |  |      |    |

| DESIGN CRITERIA               |             |
|-------------------------------|-------------|
| BUILDING CODE:                | IBC 17      |
| LIVE LOAD:                    | 20.00 PSF   |
| LIVE LOAD REDUCTION:          | Yes         |
| COLLATERAL LOAD:              | 0.5 PSF     |
| SNOW LOAD:                    | 0 PSF       |
| WIND LOAD: (3 SECOND GUST):   | 126 MPH     |
| WIND IMPORTANCE FACTOR:       | 1.00        |
| WIND EXPOSURE:                | C           |
| CATEGORY: (SEISMIC USE GROUP) | II - Normal |

|                                         |                  |                     |
|-----------------------------------------|------------------|---------------------|
| JOB NAME:<br>CAPITAL METALS SUPPLY      |                  | ID:<br>19-173       |
| JOB LOCATION:<br>LAKE CITY, FL          |                  |                     |
| IGN:<br>RLH                             | DATE:<br>9/11/19 | SCALE:<br>N.T.S.    |
| DRAWING TITLE:<br>ANCHOR BOLT REACTIONS |                  | DRAWING:<br>3 OF 20 |



## BUILDING BRACING REACTIONS

| Loc  | Wall Line | Col Line | Reactions(k) |           |              |              | Panel Shear (lb/ft) | Notes |
|------|-----------|----------|--------------|-----------|--------------|--------------|---------------------|-------|
|      |           |          | Wind Horz    | Wind Vert | Seismic Horz | Seismic Vert |                     |       |
| L_EW | 10        |          |              |           |              |              |                     | (h)   |
| F_SW | F         |          |              |           |              |              |                     | (a)   |
| R_EW | I         |          |              |           |              |              |                     | (h)   |
| B_SW | I         |          |              |           |              |              |                     |       |

(a) Bracing loads must be applied to supporting building  
(h) Rigid frame at endwall

## RIGID FRAME:

## BASIC COLUMN REACTIONS (k)

| Frame Line | Column Line | Dead         |             | Collateral  |            | Live |       | Wind Left |       | Wind Right |       | Wind Left |       |
|------------|-------------|--------------|-------------|-------------|------------|------|-------|-----------|-------|------------|-------|-----------|-------|
|            |             | Horz         | Vert        | Horz        | Vert       | Horz | Vert  | Horz      | Vert  | Horz       | Vert  | Horz      | Vert  |
| 10         | I           | 0.1          | 4.1         | 0.0         | 0.5        | 0.5  | 11.9  | -2.7      | -27.5 | 2.7        | -18.0 | -4.9      | -15.7 |
| 10         | I           | -Wind_Right2 | -Wind_Long1 | -Wind_Long2 | F1PAT_LL_1 |      |       |           |       |            |       |           |       |
|            |             | Horz         | Vert        | Horz        | Vert       | Horz | Vert  | Horz      | Vert  |            |       |           |       |
|            |             | 0.6          | -6.3        | 3.3         | -36.2      | 3.3  | -36.2 | 0.4       | 7.8   |            |       |           |       |
| 8*         | I           | 0.2          | 5.9         | 0.0         | 0.7        | 0.4  | 15.7  | -2.6      | -36.2 | 2.8        | -23.7 | -4.9      | -20.8 |
| 8*         | I           | -Wind_Right2 | -Wind_Long1 | -Wind_Long2 | F2PAT_LL_1 |      |       |           |       |            |       |           |       |
|            |             | Horz         | Vert        | Horz        | Vert       | Horz | Vert  | Horz      | Vert  |            |       |           |       |
|            |             | 0.6          | -8.3        | 3.6         | -37.2      | 3.6  | -37.2 | 0.2       | 7.7   |            |       |           |       |
| I          | I           | 0.0          | 1.3         | 0.0         | 0.2        | 0.1  | 3.9   | -0.9      | -9.0  | 1.7        | -5.9  | -2.2      | -3.1  |
| I          | I           | -Wind_Right2 | -Wind_Long1 | -Wind_Long2 | F3PAT_LL_1 |      |       |           |       |            |       |           |       |
|            |             | Horz         | Vert        | Horz        | Vert       | Horz | Vert  | Horz      | Vert  |            |       |           |       |
|            |             | 0.4          | -2.0        | 2.3         | -13.3      | 2.3  | -13.3 | 0.1       | 3.9   |            |       |           |       |

8\* Frame Lines: 8 6 4 2

## ENDWALL COLUMN:

## BASIC COLUMN REACTIONS (k)

| Frm Line | Col Line | Dead | Wind Press | Wind Suct |
|----------|----------|------|------------|-----------|
|          |          | Horz | Horz       | Horz      |
| I        | G        | 0.2  | -4.9       | 5.4       |
| I        | H        | 0.2  | -4.6       | 5.0       |

## ENDWALL COLUMN:

## MAXIMUM REACTIONS, ANCHOR BOLTS, &amp; BASE PLATES

| Frm Line | Col Line | Column Reactions(k) |      | Load Id | Hmax | Hmin | V    | Bolt Qty | Dia   | Base Plate(in) |        | Thick | Grout (in) |
|----------|----------|---------------------|------|---------|------|------|------|----------|-------|----------------|--------|-------|------------|
|          |          | Load Id             | Vmax |         |      |      | Vmin |          |       | Width          | Length |       |            |
| I        | G        | 12                  | 3.3  | 0.1     | 13   | -3.0 | 0.1  | 4        | 0.750 | 6.000          | 8.000  | 0.500 | 0.0        |
|          |          | 14                  | 3.3  | 0.2     |      |      |      |          |       |                |        |       |            |
| I        | H        | 12                  | 3.0  | 0.1     | 13   | -2.7 | 0.1  | 4        | 0.750 | 6.000          | 8.000  | 0.500 | 0.0        |
|          |          | 14                  | 3.0  | 0.2     |      |      |      |          |       |                |        |       |            |

## NOTES FOR REACTIONS

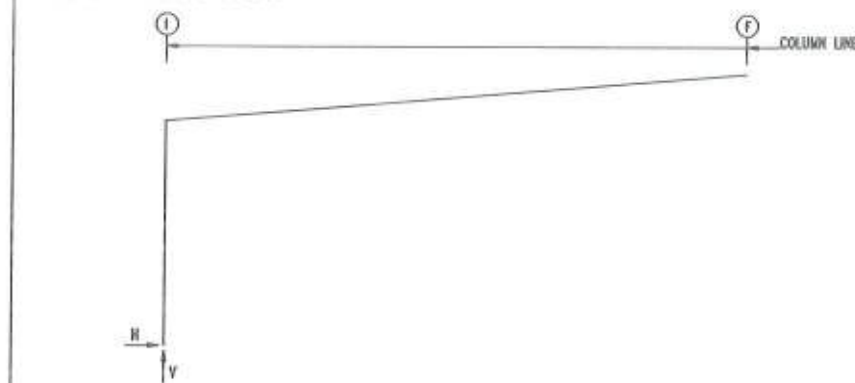
- All loading conditions are examined and only maximum/minimum H or V and the corresponding H or V are reported.
- Positive reactions are as shown in the sketch. Foundation loads are in opposite directions.
- Bracing reactions are in the plane of the brace with the H pointing away from the braced bay.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

|                       |   |                 |
|-----------------------|---|-----------------|
| Width (ft)            | = | 50.0            |
| Length (ft)           | = | 225.0           |
| Eave Height (ft)      | = | 19.6/ 23.8      |
| Roof Slope (rise/run) | = | 1.0             |
| 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)      | = | 128.0           |
| Wind Code             | = | FBC 17 (IBC 15) |
| Exposure              | = | C               |
| Closed/Open           | = | C               |
| Importance Wind       | = | 1.00            |
| Importance Seismic    | = | 1.00            |
| Seismic Zone          | = | 8               |
| Seismic Coeff (Fa/Ss) | = | 0.18            |

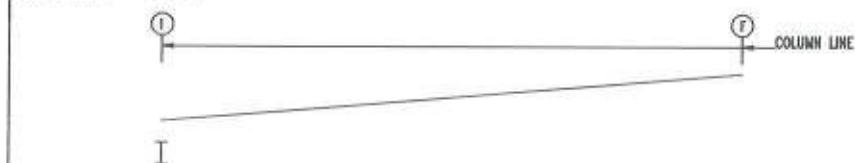
## 5. Loading conditions are:

- Dead+Collateral+Live
- Dead+0.6Wind\_Left2
- Dead+0.6Wind\_Long2R
- Dead+Collateral+0.75Live+0.45Wind\_Left2
- 0.6Dead+0.6Wind\_Left1
- 0.6Dead+0.6Wind\_Left2
- 0.6Dead+0.6Wind\_Long2R
- 1.0Dead+1.0Collateral+0.75Live+0.53Seismic\_Left1
- Dead+Collateral+F1PAT\_LL\_1
- Dead+Collateral+F2PAT\_LL\_1
- Dead+Collateral+F3PAT\_LL\_1
- 0.6Dead+0.6Wind\_Right2+0.6Wind\_Suction
- 0.6Dead+0.6Wind\_Pressure+0.6Wind\_Long2L
- Dead+0.6Wind\_Right2+0.6Wind\_Suction

## FRAME LINES: 10 8 6 4 2 1



## FRAME LINES: 9 7 5 3



## RIGID FRAME:

## MAXIMUM REACTIONS, ANCHOR BOLTS, &amp; BASE PLATES

| Frm Line | Col Line | Column Reactions(k) |      | Load Id | Hmax | Hmin | V     | Bolt Qty | Dia   | Base Plate(in) |        | Thick | Grout (in) |
|----------|----------|---------------------|------|---------|------|------|-------|----------|-------|----------------|--------|-------|------------|
|          |          | Load Id             | Vmax |         |      |      | Vmin  |          |       | Width          | Length |       |            |
| 10       | I        | 3                   | 2.2  | -17.7   | 6    | -2.9 | -7.0  | 4        | 0.750 | 6.000          | 9.000  | 0.500 | 0.0        |
|          |          | 1                   | 0.6  | 16.4    | 7    | 2.1  | -19.3 |          |       |                |        |       |            |

## RIGID FRAME:

## MAXIMUM REACTIONS, ANCHOR BOLTS, &amp; BASE PLATES

| Frm Line | Col Line | Column Reactions(k) |      | Load Id | Hmax | Hmin | V    | Bolt Qty | Dia | Base Plate(in) |        | Thick | Grout (in) |
|----------|----------|---------------------|------|---------|------|------|------|----------|-----|----------------|--------|-------|------------|
|          |          | Load Id             | Vmax |         |      |      | Vmin |          |     | Width          | Length |       |            |

## RIGID FRAME:

## MAXIMUM REACTIONS, ANCHOR BOLTS, &amp; BASE PLATES

| Frm Line | Col Line | Column Reactions(k) |      | Load Id | Hmax | Hmin | V     | Bolt Qty | Dia   | Base Plate(in) |        | Thick | Grout (in) |
|----------|----------|---------------------|------|---------|------|------|-------|----------|-------|----------------|--------|-------|------------|
|          |          | Load Id             | Vmax |         |      |      | Vmin  |          |       | Width          | Length |       |            |
| 8*       | I        | 3                   | 2.3  | -16.5   | 6    | -2.8 | -9.0  | 4        | 0.750 | 6.000          | 8.250  | 0.500 | 0.0        |
|          |          | 1                   | 0.6  | 22.2    | 7    | 2.3  | -18.8 |          |       |                |        |       |            |

8\* Frame Lines: 8 6 4 2

## RIGID FRAME:

## MAXIMUM REACTIONS, ANCHOR BOLTS, &amp; BASE PLATES

| Frm Line | Col Line | Column Reactions(k) |      | Load Id | Hmax | Hmin | V    | Bolt Qty | Dia   | Base Plate(in) |        | Thick | Grout (in) |
|----------|----------|---------------------|------|---------|------|------|------|----------|-------|----------------|--------|-------|------------|
|          |          | Load Id             | Vmax |         |      |      | Vmin |          |       | Width          | Length |       |            |
| I        | I        | 3                   | 1.4  | -6.7    | 6    | -1.3 | -2.3 | 4        | 0.750 | 6.000          | 8.250  | 0.500 | 0.0        |
|          |          | 11                  | 0.1  | 5.3     | 7    | 1.4  | -7.2 |          |       |                |        |       |            |

## ANCHOR BOLT SUMMARY

| Qty | Locals  | Dia (in) | Type | Bend Len (in) | Proj (in) |
|-----|---------|----------|------|---------------|-----------|
| 12  | Endwall | 3/4"     | A307 |               | 2.50      |
| 52  | Frame   | 3/4"     | A307 | 3.00          | 2.50      |

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



*gsh*  
3-26-20



**LARIAT STEEL DESIGN**

78 AIRPORT LANE ~ ADEL GEORGIA 31620  
PH: (229)898-2022  
FAX: (229)898-2033  
EMAIL: lariatsteeldesign@gmail.com

## REVISION

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14

## DATE

## BY

## DESIGN CRITERIA

|                               |           |
|-------------------------------|-----------|
| BUILDING CODE:                | FBC 17    |
| LIVE LOAD:                    | 20.00 PSF |
| LIVE LOAD REDUCTION:          | Yes       |
| COLLATERAL LOAD:              | 0.5 PSF   |
| SNOW LOAD:                    | 0 PSF     |
| WIND LOAD: (3 SECOND GUST)    | 128 MPH   |
| WIND IMPORTANCE FACTOR:       | 1.00      |
| WIND EXPOSURE:                | C         |
| CATEGORY: (SEISMIC USE GROUP) | @L400     |

## JOB NAME:

CAPITAL METALS SUPPLY

## ID

19-173

## JOB LOCATION:

LAKE CITY, FL

## DWN

RLH

## DATE:

9/11/19

## SCALE:

N.T.S.

## DRAWING TITLE:

ANCHOR BOLT REACTIONS

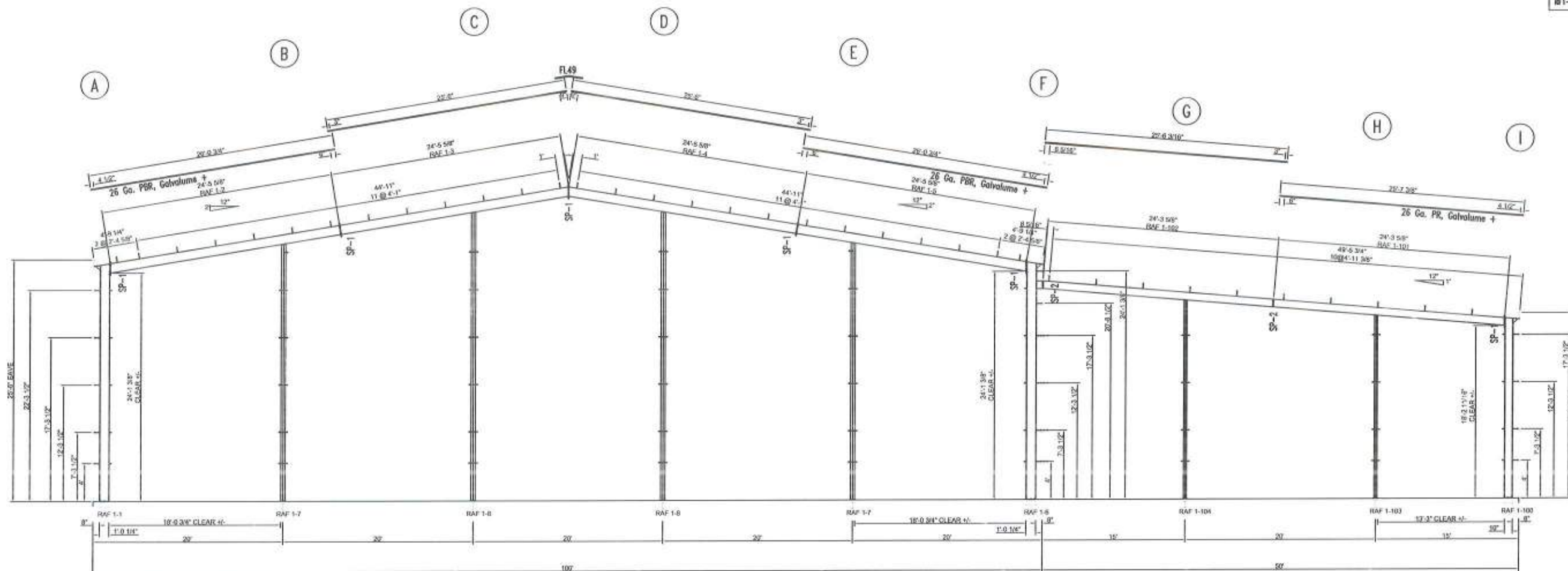
## DRAWING

4 OF 25

| SPICE BOLT TABLE |     |     |     |     |      | CAP PLATE BOLTS |        |       |     |      |
|------------------|-----|-----|-----|-----|------|-----------------|--------|-------|-----|------|
| Mark             | Qty | Top | Bot | Int | Type | Dia             | Length | Mark  | Qty | Type |
| SP-1             | 4   | 4   | 0   | 0   | A325 | 0.750           | 2.50   | RF1-7 | 4   | A325 |
| SP-2             | 2   | 2   | 0   | 0   | A325 | 0.750           | 2.50   | RF1-8 | 4   | A325 |

FLANGE BRACES: Both Sides(U.N.)  
 FBxxA(1): xx=length(in)  
 A - FB15X1/8

| Mark    | Length      | MATERIAL |
|---------|-------------|----------|
| RF1-1   | 24'-11 1/4" | W12x26   |
| RF1-2   | 24'-5 5/8"  | W12x14   |
| RF1-3   | 24'-5 5/8"  | W12x14   |
| RF1-4   | 24'-5 5/8"  | W12x14   |
| RF1-5   | 24'-5 5/8"  | W12x14   |
| RF1-6   | 24'-11 1/4" | W12x26   |
| RF1-7   | 27'-2 1/4"  | W8x18    |
| RF1-8   | 30'-6 1/4"  | W8x21    |
| RF1-100 | 15'-11 5/8" | W10x19   |
| RF1-101 | 24'-3 5/8"  | W10x12   |
| RF1-102 | 24'-3 5/8"  | W10x12   |
| RF1-103 | 19'-4 1/4"  | W8x10    |
| RF1-104 | 21'-0 1/4"  | W8x10    |



FRAME LINE #1

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 Adel, GA 31620  
 P.E. # 54419



*Agg 5 Bl*  
 3-26-20



**LARIAT STEEL DESIGN**  
 76 AIRPORT LANE ~ ADEL GEORGIA 31620  
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 FAX: (229)896-2033  
 EMAIL: lariatsteeldesign@gmail.com

| REVISION | DATE | BY |
|----------|------|----|
| "A"      |      |    |
| "B"      |      |    |
| "C"      |      |    |
| "D"      |      |    |
| "E"      |      |    |
| "F"      |      |    |
| "G"      |      |    |

| DESIGN CRITERIA               |           |
|-------------------------------|-----------|
| BUILDING CODE:                | FBC 17    |
| LIVE LOAD:                    | 20.00 PSF |
| LIVE LOAD REDUCTION:          | Yes       |
| COLLATERAL LOAD:              | 0.5 PSF   |
| SNOW LOAD:                    | 0 PSF     |
| WIND LOAD: (3 SECOND GUST)    | 120 MPH   |
| WIND IMPORTANCE FACTOR:       | 1.00      |
| WIND EXPOSURE:                | C         |
| CATEGORY: (SEISMIC USE GROUP) | @400      |

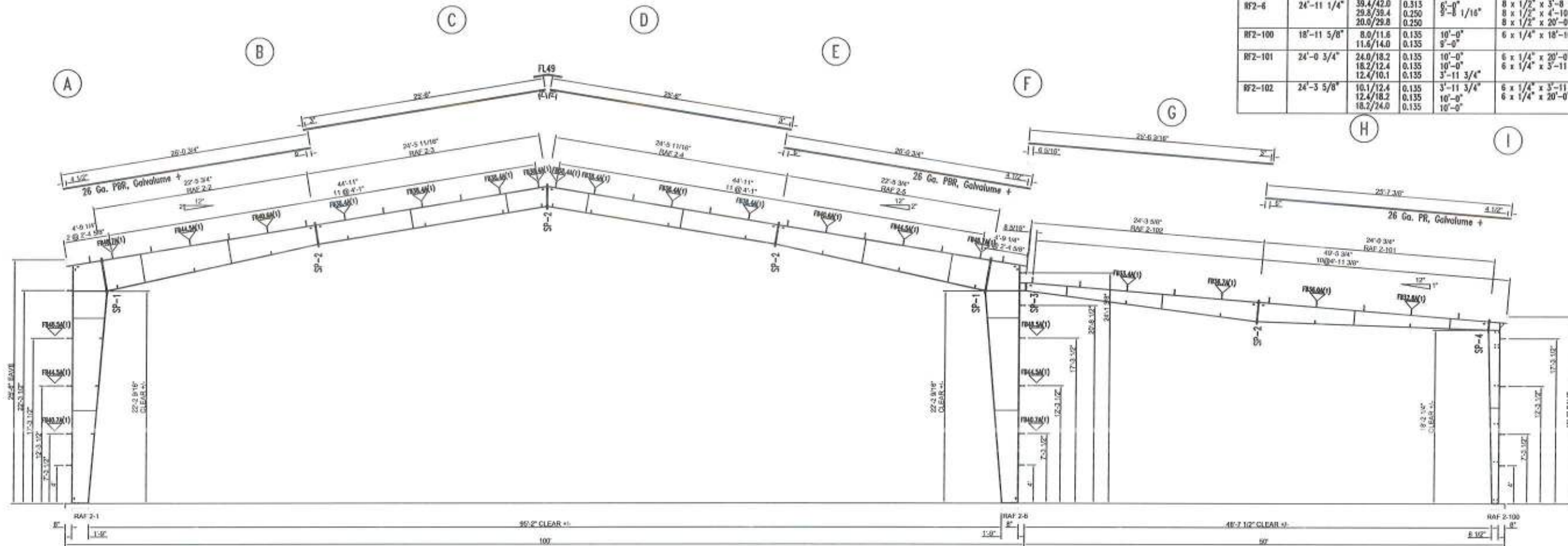
|                       |               |        |
|-----------------------|---------------|--------|
| JOB NAME              | JOB LOCATION  | ID     |
| CAPITAL METALS SUPPLY | LAKE CITY, FL | 19-173 |
| DWN                   | DATE          | SCALE  |
| RLH                   | 9/11/19       | N.T.S. |
| DRAWING TITLE         | DRAWING       |        |
| RIGID FRAME ELEVATION | 5 OF 25       |        |



| SPICE BOLT TABLE |     |     |     |     |      |        |
|------------------|-----|-----|-----|-----|------|--------|
| Mark             | Qty | Top | Bot | Int | Type | Length |
| SP-1             | 4   | 4   | 4   | 4   | A325 | 0.750  |
| SP-2             | 4   | 4   | 4   | 4   | A325 | 0.750  |
| SP-3             | 2   | 2   | 2   | 0   | A325 | 0.750  |
| SP-4             | 4   | 4   | 4   | 0   | A325 | 0.750  |

FLANGE BRACES: Both Sides(U.N.)  
 FBxxA(1): xx=length(in)  
 A - FB15X1/8

| MEMBER TABLE |              |           |           |                        |                          |  |
|--------------|--------------|-----------|-----------|------------------------|--------------------------|--|
| Mark         | Length       | Web Depth | Web Plate | Outside Flange         | Inside Flange            |  |
| RF2-1        | 24'-11 1/4"  | Start/End | Thick     | W x Thk x Length       | W x Thk x Length         |  |
|              |              | 25.0/29.8 | 0.250     | 8 x 1/2" x 20'-0"      | 8 x 1/2" x 11'-11 5/8"   |  |
|              |              | 23.6/39.4 | 0.250     | 8 x 1/2" x 4'-10 3/16" | 8 x 5/8" x 10'-0"        |  |
| RF2-2        | 22'-5 3/4"   | Start/End | Thick     | W x Thk x Length       | W x Thk x Length         |  |
|              |              | 38.3/35.7 | 0.250     | 6 x 1/2" x 20'-0"      | 6 x 5/8" x 10'-0"        |  |
|              |              | 35.7/29.8 | 0.188     | 6 x 1/2" x 2'-4 3/8"   | 6 x 1/2" x 12'-4 3/4"    |  |
| RF2-3        | 24'-5 11/16" | Start/End | Thick     | W x Thk x Length       | W x Thk x Length         |  |
|              |              | 24.0/24.0 | 0.135     | 10'-0"                 | 6 x 1/2" x 20'-0"        |  |
|              |              | 24.0/24.0 | 0.135     | 10'-0"                 | 6 x 1/2" x 4'-0 1/16"    |  |
| RF2-4        | 24'-5 11/16" | Start/End | Thick     | W x Thk x Length       | W x Thk x Length         |  |
|              |              | 24.0/24.0 | 0.135     | 4'-4 3/16"             | 6 x 5/8" x 10'-0"        |  |
|              |              | 24.0/24.0 | 0.135     | 10'-0"                 | 6 x 1/2" x 20'-0"        |  |
| RF2-5        | 22'-5 3/4"   | Start/End | Thick     | W x Thk x Length       | W x Thk x Length         |  |
|              |              | 24.0/29.8 | 0.188     | 6 x 1/2" x 2'-4 3/8"   | 6 x 1/2" x 12'-4 3/4"    |  |
|              |              | 29.8/35.7 | 0.188     | 6 x 1/2" x 20'-0"      | 6 x 5/8" x 10'-0"        |  |
| RF2-6        | 24'-11 1/4"  | Start/End | Thick     | W x Thk x Length       | W x Thk x Length         |  |
|              |              | 39.4/42.0 | 0.313     | 8 x 1/2" x 5'-8 1/8"   | 8 x 5/8" x 10'-0"        |  |
|              |              | 29.8/39.4 | 0.250     | 8 x 1/2" x 4'-10 3/16" | 8 x 1/2" x 11'-11 5/8"   |  |
| RF2-100      | 18'-11 5/8"  | Start/End | Thick     | W x Thk x Length       | W x Thk x Length         |  |
|              |              | 8.0/11.6  | 0.135     | 10'-0"                 | 6 x 1/4" x 17'-10 15/16" |  |
|              |              | 11.6/14.0 | 0.135     | 9'-0"                  | 6 x 1/4" x 17'-10 15/16" |  |
| RF2-101      | 24'-0 3/4"   | Start/End | Thick     | W x Thk x Length       | W x Thk x Length         |  |
|              |              | 24.0/18.2 | 0.135     | 10'-0"                 | 6 x 1/4" x 20'-0"        |  |
|              |              | 18.2/12.4 | 0.135     | 10'-0"                 | 6 x 1/4" x 4'-0 1/16"    |  |
| RF2-102      | 24'-3 5/8"   | Start/End | Thick     | W x Thk x Length       | W x Thk x Length         |  |
|              |              | 10.1/12.4 | 0.135     | 3'-11 3/4"             | 6 x 1/4" x 3'-11 3/4"    |  |
|              |              | 12.4/18.2 | 0.135     | 10'-0"                 | 6 x 1/4" x 20'-0"        |  |



FRAME LINE #2

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



*Handwritten signature and date:*  
 3-26-20



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 78 AIRPORT LANE ~ ADEL GEORGIA 31620  
 PH: (229)896-2022  
 FAX: (229)896-2033  
 EMAIL: lariatsteeldesign@gmail.com

| REVISION | DATE | BY |
|----------|------|----|
| A        |      |    |
| B        |      |    |
| C        |      |    |
| D        |      |    |
| E        |      |    |
| F        |      |    |
| G        |      |    |

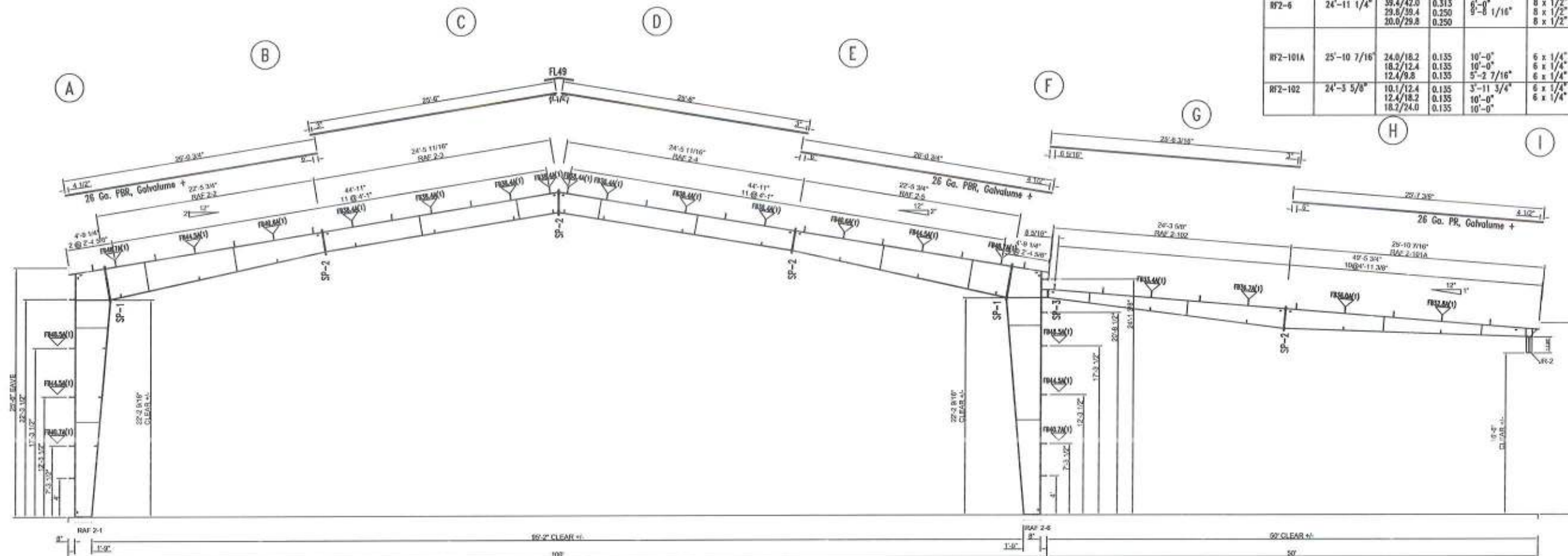
| DESIGN CRITERIA               |           |
|-------------------------------|-----------|
| BUILDING CODE:                | FBC 17    |
| LIVE LOAD:                    | 20.00 PSF |
| LIVE LOAD REDUCTION:          | Yes       |
| COLLATERAL LOAD:              | 0.5 PSF   |
| SNOW LOAD:                    | 0 PSF     |
| WIND LOAD: (3 SECOND GUST)    | 128 MPH   |
| WIND IMPORTANCE FACTOR:       | 1.00      |
| WIND EXPOSURE:                | C         |
| CATEGORY: (SEISMIC USE GROUP) | 0400      |

|                                         |                  |                     |
|-----------------------------------------|------------------|---------------------|
| JOB NAME:<br>CAPITAL METALS SUPPLY      |                  | ID:<br>19-173       |
| JOB LOCATION:<br>LAKE CITY, FL          |                  |                     |
| SWN:<br>RLH                             | DATE:<br>9/11/19 | SCALE:<br>N.T.S.    |
| DRAWING TITLE:<br>RIGID FRAME ELEVATION |                  | DRAWING:<br>6 OF 25 |

| SPICE BOLT TABLE |     |     |     |     |      |       | CAP PLATE BOLTS |      |     |      |       |        |
|------------------|-----|-----|-----|-----|------|-------|-----------------|------|-----|------|-------|--------|
| Mark             | Qty | Top | Bot | Int | Type | Dia   | Length          | Mark | Qty | Type | Dia   | Length |
| SP-1             | 4   | 4   | 4   | 4   | A325 | 0.750 | 2.50            | JR-2 | 4   | A325 | 0.750 | 2.50   |
| SP-2             | 4   | 4   | 4   | 2   | A325 | 0.750 | 2.50            |      |     |      |       |        |
| SP-3             | 2   | 2   | 0   | 0   | A325 | 0.750 | 2.50            |      |     |      |       |        |
| SP-4             | 4   | 4   | 0   | 0   | A325 | 0.750 | 2.50            |      |     |      |       |        |

FLANGE BRACES: Both Sides(U.N.)  
 FBxxA(1): xx=length(in)  
 A - FB15X1/8

| MEMBER TABLE |              | Web Depth | Web Plate | Outside Flange    | Inside Flange          |
|--------------|--------------|-----------|-----------|-------------------|------------------------|
| Mark         | Length       | Start/End | Thick     | Length            | W x Thk x Length       |
| RF2-1        | 24'-11 1/4"  | 20.0/29.8 | 0.250     | 8'-8 1/16"        | 8 x 1/2" x 20'-0"      |
|              |              | 29.8/39.4 | 0.250     | 9'-8 1/16"        | 8 x 1/2" x 4'-10 3/16" |
|              |              | 39.4/42.0 | 0.313     | 6'-0"             | 8 x 1/2" x 5'-8 1/8"   |
| RF2-2        | 22'-5 3/4"   | 38.3/35.7 | 0.250     | 4'-0"             | 6 x 1/2" x 20'-0"      |
|              |              | 35.7/29.8 | 0.188     | 9'-2 3/16"        | 6 x 1/2" x 2'-4 3/8"   |
|              |              | 29.8/24.0 | 0.188     | 9'-2 3/16"        | 6 x 1/2" x 2'-4 3/8"   |
| RF2-3        | 24'-5 11/16" | 24.0/24.0 | 0.135     | 10'-0"            | 6 x 1/2" x 14'-4 3/16" |
|              |              | 24.0/24.0 | 0.135     | 10'-0"            | 6 x 5/8" x 10'-0"      |
|              |              | 24.0/24.0 | 0.135     | 4'-4 3/16"        | 6 x 1/2" x 4'-0 1/16"  |
| RF2-4        | 24'-5 11/16" | 24.0/24.0 | 0.135     | 4'-4 3/16"        | 6 x 5/8" x 10'-0"      |
|              |              | 24.0/24.0 | 0.135     | 10'-0"            | 6 x 1/2" x 14'-4 3/16" |
|              |              | 24.0/24.0 | 0.135     | 10'-0"            | 6 x 1/2" x 20'-0"      |
| RF2-5        | 22'-5 3/4"   | 24.0/29.8 | 0.188     | 9'-2 3/16"        | 6 x 1/2" x 2'-4 3/8"   |
|              |              | 29.8/35.7 | 0.188     | 9'-2 3/16"        | 6 x 1/2" x 2'-4 3/8"   |
|              |              | 35.7/30.3 | 0.250     | 4'-0"             | 6 x 5/8" x 10'-0"      |
| RF2-6        | 24'-11 1/4"  | 39.4/42.0 | 0.313     | 6'-0"             | 8 x 1/2" x 3'-8 1/8"   |
|              |              | 29.8/39.4 | 0.250     | 9'-8 1/16"        | 8 x 1/2" x 4'-10 3/16" |
|              |              | 20.0/29.8 | 0.250     | 8 x 1/2" x 20'-0" | 8 x 1/2" x 11'-11 5/8" |
| RF2-101A     | 25'-10 7/16" | 24.0/18.2 | 0.135     | 10'-0"            | 6 x 1/4" x 20'-0"      |
|              |              | 18.2/12.4 | 0.135     | 10'-0"            | 6 x 1/4" x 5'-9 15/16" |
|              |              | 12.4/9.8  | 0.135     | 5'-2 7/16"        | 6 x 1/4" x 9 1/8"      |
| RF2-102      | 24'-5 5/8"   | 10.1/12.4 | 0.135     | 3'-11 3/4"        | 6 x 1/4" x 3'-11 3/4"  |
|              |              | 12.4/18.2 | 0.135     | 10'-0"            | 6 x 1/4" x 20'-0"      |
|              |              | 18.2/24.0 | 0.135     | 10'-0"            | 6 x 1/4" x 20'-0"      |



FRAME LINE #3 & #5

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



*Signature*  
 3-26-20



**LARIAT STEEL DESIGN**  
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 FAX: (229)896-2033  
 EMAIL: lariatsteeldesign@gmail.com

| REVISION | DATE | BY |
|----------|------|----|
| "A"      |      |    |
| "B"      |      |    |
| "C"      |      |    |
| "D"      |      |    |
| "E"      |      |    |
| "F"      |      |    |
| "G"      |      |    |

| DESIGN CRITERIA                |           |
|--------------------------------|-----------|
| BUILDING CODE:                 | IBC 17    |
| LIVE LOAD:                     | 20.00 PSF |
| LIVE LOAD REDUCTION:           | Yes       |
| COLLATERAL LOAD:               | 0.5 PSF   |
| SNOW LOAD:                     | 0 PSF     |
| WIND LOAD: (3 SECOND GUST):    | 120 MPH   |
| WIND IMPORTANCE FACTOR:        | 1.00      |
| WIND EXPOSURE:                 | C         |
| CATEGORY: (SEISMIC USE GROUP): | @400      |

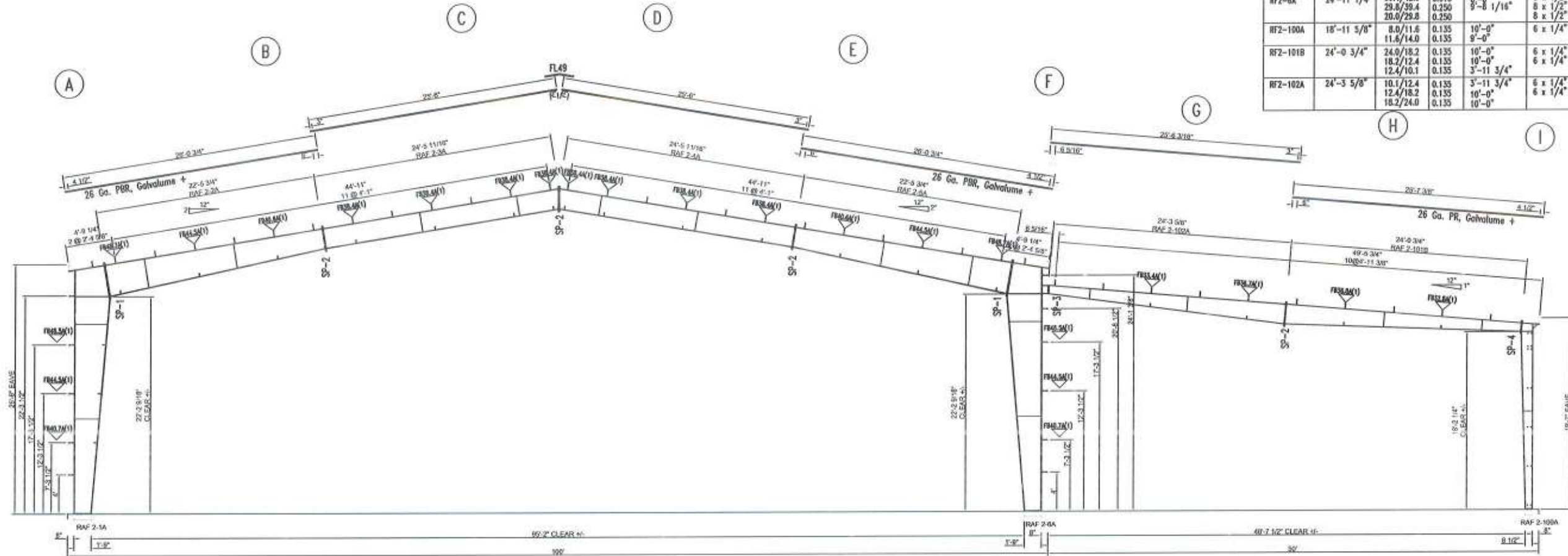
|                |                       |          |         |
|----------------|-----------------------|----------|---------|
| JOB NAME:      | CAPITAL METALS SUPPLY | ID:      | 19-173  |
| JOB LOCATION:  | LAKE CITY, FL         |          |         |
| DWN:           | RLH                   | DATE:    | 9/11/19 |
| DRAWING TITLE: | RIGID FRAME ELEVATION | SCALE:   | N.T.S.  |
|                |                       | DRAWING: | 7 OF 25 |



| SPICE BOLT TABLE |     |     |     |     |      |        |
|------------------|-----|-----|-----|-----|------|--------|
| Mark             | Qty | Top | Bot | Int | Type | Length |
| SP-1             | 4   | 4   | 4   | 4   | A325 | 0.750  |
| SP-2             | 4   | 4   | 4   | 4   | A325 | 0.750  |
| SP-3             | 2   | 2   | 0   | 0   | A325 | 0.750  |
| SP-4             | 4   | 4   | 0   | 0   | A325 | 0.750  |

FLANGE BRACES: Both Sides(U.N.)  
 FBxxA(1): xx=length(in)  
 A - FB15X1/8

| MEMBER TABLE |              |           |       |                |                          |                          |
|--------------|--------------|-----------|-------|----------------|--------------------------|--------------------------|
| Work         | Length       | Web       | Web   | Outside Flange | Inside Flange            |                          |
|              |              | Start/End | Thick | Length         | W x Thk x Length         | W x Thk x Length         |
| RF2-1A       | 24'-11 1/4"  | 20.0/29.8 | 0.250 | 9'-8 1/16"     | 8 x 1/2" x 20'-0"        | 8 x 1/2" x 11'-11 5/8"   |
|              |              | 29.8/39.4 | 0.250 | 9'-8 1/16"     | 8 x 1/2" x 4'-10 3/16"   | 8 x 5/8" x 10'-0"        |
|              |              | 39.4/42.0 | 0.313 | 6'-0"          | 8 x 1/2" x 3'-8 1/8"     |                          |
| RF2-2A       | 22'-5 3/4"   | 38.3/35.7 | 0.250 | 4'-0"          | 6 x 1/2" x 20'-0"        | 6 x 5/8" x 10'-0"        |
|              |              | 35.7/29.8 | 0.188 | 9'-2 3/16"     | 6 x 1/2" x 2'-4 3/8"     | 6 x 1/2" x 12'-4 3/4"    |
|              |              | 29.8/24.0 | 0.188 | 9'-2 3/16"     |                          |                          |
| RF2-3A       | 24'-5 11/16" | 24.0/24.0 | 0.135 | 10'-0"         | 6 x 1/2" x 14'-4 3/16"   | 6 x 1/2" x 20'-0"        |
|              |              | 24.0/24.0 | 0.135 | 10'-0"         | 6 x 5/8" x 10'-0"        | 6 x 1/2" x 4'-0 1/16"    |
|              |              | 24.0/24.0 | 0.135 | 4'-4 3/16"     |                          |                          |
| RF2-4A       | 24'-5 11/16" | 24.0/24.0 | 0.135 | 4'-4 3/16"     | 6 x 5/8" x 10'-0"        | 6 x 1/2" x 4'-0 1/16"    |
|              |              | 24.0/24.0 | 0.135 | 10'-0"         | 6 x 1/2" x 14'-4 3/16"   | 6 x 1/2" x 20'-0"        |
|              |              | 24.0/24.0 | 0.135 | 10'-0"         |                          |                          |
| RF2-5A       | 22'-5 3/4"   | 24.0/29.8 | 0.188 | 9'-2 3/16"     | 6 x 1/2" x 2'-4 3/8"     | 6 x 1/2" x 12'-4 3/4"    |
|              |              | 29.8/35.7 | 0.188 | 9'-2 3/16"     | 6 x 1/2" x 20'-0"        | 6 x 5/8" x 10'-0"        |
|              |              | 35.7/38.3 | 0.250 | 4'-0"          |                          |                          |
| RF2-6A       | 24'-11 1/4"  | 39.4/42.0 | 0.313 | 6'-0"          | 8 x 1/2" x 3'-8 1/8"     | 8 x 5/8" x 10'-0"        |
|              |              | 29.8/39.4 | 0.250 | 9'-8 1/16"     | 8 x 1/2" x 4'-10 3/16"   | 8 x 1/2" x 11'-11 5/8"   |
|              |              | 20.0/29.8 | 0.250 | 9'-8 1/16"     | 8 x 1/2" x 20'-0"        |                          |
| RF2-100A     | 18'-11 5/8"  | 8.0/11.6  | 0.135 | 10'-0"         | 6 x 1/4" x 18'-10 15/16" | 6 x 1/4" x 17'-10 15/16" |
|              |              | 11.6/14.0 | 0.135 | 9'-0"          |                          |                          |
| RF2-101B     | 24'-0 3/4"   | 24.0/18.2 | 0.135 | 10'-0"         | 6 x 1/4" x 20'-0"        | 6 x 1/4" x 20'-0"        |
|              |              | 18.2/12.4 | 0.135 | 10'-0"         | 6 x 1/4" x 3'-11 3/4"    | 6 x 1/4" x 4'-0 1/16"    |
|              |              | 12.4/10.1 | 0.135 | 3'-11 3/4"     |                          |                          |
| RF2-102A     | 24'-3 5/8"   | 10.1/12.4 | 0.135 | 3'-11 3/4"     | 6 x 1/4" x 3'-11 3/4"    | 6 x 1/4" x 4'-2 5/8"     |
|              |              | 12.4/18.2 | 0.135 | 10'-0"         | 6 x 1/4" x 20'-0"        | 6 x 1/4" x 20'-0"        |
|              |              | 18.2/24.0 | 0.135 | 10'-0"         |                          |                          |



FRAME LINE #4

Gregory S. Barfield, P.E.  
 2149 Nell Purvis Road  
 Adel, GA 31620  
 P.E. # 53419



*Agg 5 gh*  
 3-26-20



**LARIAT STEEL DESIGN**  
 76 AIRPORT LANE ~ ADEL GEORGIA 31620  
 PH: (229)896-2022  
 FAX: (229)896-2033  
 EMAIL: lariatsteel@gmail.com

| REVISION | DATE | BY |
|----------|------|----|
| "A"      |      |    |
| "B"      |      |    |
| "C"      |      |    |
| "D"      |      |    |
| "E"      |      |    |
| "F"      |      |    |
| "G"      |      |    |

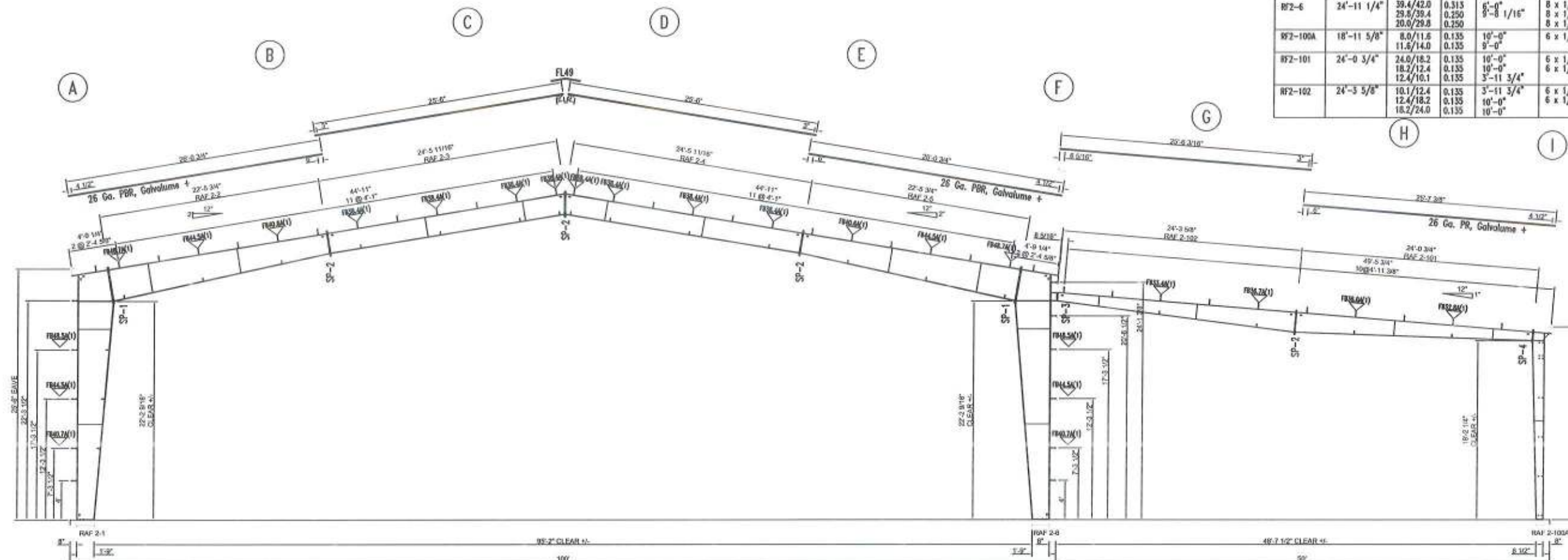
| DESIGN CRITERIA                |           |
|--------------------------------|-----------|
| BUILDING CODE:                 | FBC 17    |
| LIVE LOAD:                     | 20.00 PSF |
| LIVE LOAD REDUCTION:           | Yes       |
| COLLATERAL LOAD:               | 0.5 PSF   |
| SNOW LOAD:                     | 0 PSF     |
| WIND LOAD: (3 SECOND GUST):    | 128 MPH   |
| WIND IMPORTANCE FACTOR:        | 1.00      |
| WIND EXPOSURE:                 | C         |
| CATEGORY: (SEISMIC USE GROUP): | @U400     |

|                |                       |       |          |         |
|----------------|-----------------------|-------|----------|---------|
| JOB NAME:      | CAPITAL METALS SUPPLY |       | ID:      | 19-173  |
| JOB LOCATION:  | LAKE CITY, FL         |       |          |         |
| SVN:           | RLH                   | DATE: | 9/11/19  | SCALE:  |
| DRAWING TITLE: | RIGID FRAME ELEVATION |       | DRAWING: | N.T.S.  |
|                |                       |       |          | 8 OF 25 |

| SPICE BOLT TABLE |     |     |     |     |      |            |
|------------------|-----|-----|-----|-----|------|------------|
| Mark             | Qty | Top | Bot | Int | Type | Length     |
| SP-1             | 4   | 4   | 4   | 4   | A325 | 0.750 2.50 |
| SP-2             | 4   | 4   | 4   | 2   | A325 | 0.750 2.50 |
| SP-3             | 2   | 2   | 0   | 0   | A325 | 0.750 2.50 |
| SP-4             | 4   | 4   | 0   | 0   | A325 | 0.750 2.50 |

FLANGE BRACES: Both Sides(U.N.)  
 FBxxA(1): xx=length(in)  
 A - FB15X1/8

| MEMBER TABLE |              | Web Depth                           | Web Plate               | Outside Flange                           | Inside Flange                                                        |
|--------------|--------------|-------------------------------------|-------------------------|------------------------------------------|----------------------------------------------------------------------|
| Mark         | Length       | Start/End                           | Thick                   | W x Thk x Length                         | W x Thk x Length                                                     |
| RF2-1        | 24'-11 1/4"  | 20.0/29.8<br>29.6/39.4<br>39.4/42.0 | 0.250<br>0.250<br>0.313 | 9'-8 1/16"<br>9'-8 1/16"<br>6'-0"        | 8 x 1/2" x 20'-0"<br>8 x 1/2" x 4'-10 3/16"<br>8 x 1/2" x 3'-8 1/8"  |
| RF2-2        | 22'-5 3/4"   | 38.3/35.7<br>35.7/29.8<br>29.8/24.0 | 0.250<br>0.188<br>0.188 | 4'-0"<br>9'-2 3/16"<br>9'-2 3/16"        | 6 x 1/2" x 20'-0"<br>6 x 1/2" x 2'-4 3/8"<br>6 x 5/8" x 10'-0"       |
| RF2-3        | 24'-5 11/16" | 24.0/24.0<br>24.0/24.0<br>24.0/24.0 | 0.135<br>0.135<br>0.135 | 10'-0"<br>10'-0"<br>4'-4 3/16"           | 6 x 1/2" x 14'-4 3/16"<br>6 x 5/8" x 10'-0"<br>6 x 1/2" x 4'-0 1/16" |
| RF2-4        | 24'-5 11/16" | 24.0/24.0<br>24.0/24.0<br>24.0/24.0 | 0.135<br>0.135<br>0.135 | 4'-4 3/16"<br>10'-0"<br>10'-0"           | 6 x 5/8" x 10'-0"<br>6 x 1/2" x 14'-4 3/16"<br>6 x 1/2" x 20'-0"     |
| RF2-5        | 22'-5 3/4"   | 24.0/29.8<br>29.6/35.7<br>35.7/38.3 | 0.188<br>0.188<br>0.250 | 9'-2 3/16"<br>9'-2 3/16"<br>4'-0"        | 6 x 1/2" x 2'-4 3/8"<br>6 x 1/2" x 20'-0"<br>6 x 1/2" x 12'-4 3/4"   |
| RF2-6        | 24'-11 1/4"  | 39.4/42.0<br>29.6/39.4<br>20.0/29.8 | 0.313<br>0.250<br>0.250 | 6'-0"<br>9'-8 1/16"<br>8 x 1/2" x 20'-0" | 8 x 1/2" x 3'-8 1/8"<br>8 x 1/2" x 4'-10 3/16"<br>8 x 1/2" x 20'-0"  |
| RF2-100A     | 18'-11 5/8"  | 8.0/11.6<br>11.6/14.0               | 0.135<br>0.135          | 10'-0"<br>9'-0"                          | 6 x 1/4" x 18'-10 15/16"<br>6 x 1/4" x 17'-10 15/16"                 |
| RF2-101      | 24'-0 3/4"   | 24.0/18.2<br>18.2/12.4<br>12.4/10.1 | 0.135<br>0.135<br>0.135 | 10'-0"<br>10'-0"<br>3'-11 3/4"           | 6 x 1/4" x 20'-0"<br>6 x 1/4" x 3'-11 3/4"<br>6 x 1/4" x 4'-0 1/16"  |
| RF2-102      | 24'-3 5/8"   | 10.1/12.4<br>12.4/18.2<br>18.2/24.0 | 0.135<br>0.135<br>0.135 | 3'-11 3/4"<br>10'-0"<br>10'-0"           | 6 x 1/4" x 3'-11 3/4"<br>6 x 1/4" x 20'-0"<br>6 x 1/4" x 20'-0"      |



FRAME LINE #6

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



*Agg 5 Bh*  
 3-26-20



**LARIAT STEEL DESIGN**  
 78 AIRPORT LANE ~ ADEL GEORGIA 31620  
 PH: (229)896-2022  
 FAX: (229)896-2033  
 EMAIL: lariatsteeldesign@gmail.com

| REVISION | DATE | BY |
|----------|------|----|
| "A"      |      |    |
| "B"      |      |    |
| "C"      |      |    |
| "D"      |      |    |
| "E"      |      |    |
| "F"      |      |    |
| "G"      |      |    |

| DESIGN CRITERIA               |           |
|-------------------------------|-----------|
| BUILDING CODE:                | FBC 17    |
| LIVE LOAD:                    | 20.00 PSF |
| LIVE LOAD REDUCTION:          | Yes       |
| COLLATERAL LOAD:              | 0.5 PSF   |
| SNOW LOAD:                    | 0 PSF     |
| WIND LOAD: (3 SECOND GUST)    | 128 MPH   |
| WIND IMPORTANCE FACTOR:       | 1.00      |
| WIND EXPOSURE:                | C         |
| CATEGORY: (SEISMIC USE GROUP) | II        |

|                |                       |          |         |
|----------------|-----------------------|----------|---------|
| JOB NAME:      | CAPITAL METALS SUPPLY | ID:      | 19-173  |
| JOB LOCATION:  | LAKE CITY, FL         |          |         |
| DATE:          | 9/11/19               | SCALE:   | N.T.S.  |
| DRAWING TITLE: | RIGID FRAME ELEVATION | DRAWING: | 9 OF 25 |